

PELLA BUILDING SYSTEMS  
906 W 9TH ST  
PELLA, IA 50219

REACTIONS & ANCHOR BOLTS  
FOR  
MEGA Storage  
DLR ADDRESS 1  
DLR ADDRESS 2

LEES SUMMIT  
520 NE TOWN CENTRE DRIVE  
LEE'S SUMMIT MO  
11 12



BUILDING LAYOUT  
Width (ft)= 65.0  
Length (ft)= 70.0  
Eave Height (ft)= 16.1/ 15.9  
Roof Slope (rise/12 )= 0.50/ 0.50

BUILDING LOADS  
Roof Dead Load (psf )= 2.0  
Wall Dead Load  
Left Endwall (psf )= 2.0  
Right Endwall (psf )= 2.0  
Front Sidewall (psf )= 2.0  
Back Sidewall (psf )= 2.0  
Live Load (psf )= 20.0  
Collateral Load (psf )= 0.5  
Snow Load (psf )= 13.4  
Minimum Snow (psf )= 16.0  
Wind Speed (mph )= 103.0  
Wind Code = IBC 18  
Closed/Open = C  
Exposure = C  
Internal Wind Coeff = -0.18, +0.18  
Importance - Wind = 1.00  
Importance - Seismic = 1.00  
Seismic Design Category= B  
Seismic Coeff (Fa\*Ss) = 0.16

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Designer :  
Detailer : JB

2/14/23



|   |   |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---|---|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 0 | 16 | 1.00 | 1.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 17 | 1.00 | 1.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 18 | 1.00 | 1.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 19 | 1.00 | 1.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 20 | 1.00 | 1.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 21 | 1.00 | 1.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 22 | 1.00 | 1.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 23 | 1.00 | 1.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 24 | 1.00 | 1.00 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 25 | 1.00 | 1.00 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 26 | 1.00 | 1.00 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 27 | 1.00 | 1.00 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.45 | 0.00 |
| 0 | 0 | 28 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 |
| 0 | 0 | 29 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.60 | 0.00 | 0.00 |
| 0 | 0 | 30 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | 0.60 | 0.00 |
| 0 | 0 | 31 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 |
| 0 | 0 | 32 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 |
| 0 | 0 | 33 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 |
| 0 | 0 | 34 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 |
| 0 | 0 | 35 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 |
| 0 | 0 | 36 | 1.03 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.7  |
| 0 | 0 | 37 | 1.03 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.7 |
| 3 | 0 | 38 | 1.02 | 1.02 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.5  |
| 3 | 0 | 39 | 1.02 | 1.02 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.5 |
| 3 | 0 | 40 | 1.02 | 1.02 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.5  |
| 3 | 0 | 41 | 1.02 | 1.02 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.5 |
| 3 | 0 | 42 | 1.02 | 1.02 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.5  |
| 3 | 0 | 43 | 1.02 | 1.02 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.5 |
| 0 | 0 | 44 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.7  |
| 0 | 0 | 45 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.7 |
| 0 | 0 | 46 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0  |
| 0 | 0 | 47 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.0  |

|   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 0 | 48   | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.45 | 0.0  |
| 0 | 0 | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 49   | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.7  |
| 0 | 0 | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 50   | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.7 |
| 0 | 0 | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 51   | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.7  |
| 0 | 0 | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 52   | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.7 |
| 0 | 0 | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 53   | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0  |
| 0 | 0 | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 54   | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0  |
| 0 | 0 | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 55   | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.0  |
| 0 | 0 | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 56   | 1.01 | 1.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0  |
| 0 | 0 | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

\*AUXILIARY LOADS:

| *No. | Id | Name     | No. Add | -Add_Load- |      |
|------|----|----------|---------|------------|------|
|      |    |          |         | Id         | Coef |
| 2    | 1  | MIN_SNOW | 2       | 1          | 1.00 |
|      |    |          |         | 2          | 1.00 |
|      | 2  | UNB_SL   | 4       | 3          | 1.00 |
|      |    |          |         | 4          | 0.40 |
|      |    |          |         | 5          | 1.00 |
|      |    |          |         | 6          | 0.37 |

\*ADDITIONAL LOADS:

| *No. | Id | Surf Id | Basic Load | Load Type | Load Orn | W1     | W2     | D1   | D2    | ---Surface--- |       |
|------|----|---------|------------|-----------|----------|--------|--------|------|-------|---------------|-------|
|      |    |         |            |           |          |        |        |      |       | Start         | End   |
| 6    | 1  | 2       | U_SNOW     | D         | T        | -16.00 | -16.00 | 0.00 | 30.03 | 0.00          | 70.00 |
|      |    | 2       | U_SNOW     | D         | T        | -16.00 | -16.00 | 0.00 | 35.03 | 0.00          | 70.00 |
|      |    | 3       | U_SNOW     | D         | T        | -13.44 | -13.44 | 0.00 | 30.03 | 0.00          | 70.00 |
|      |    | 4       | U_SNOW     | D         | T        | -13.44 | -13.44 | 9.09 | 30.03 | 0.00          | 70.00 |
|      |    | 5       | U_SNOW     | D         | T        | -13.44 | -13.44 | 0.00 | 35.03 | 0.00          | 70.00 |
|      |    | 6       | U_SNOW     | D         | T        | -13.44 | -13.44 | 0.00 | 19.01 | 0.00          | 70.00 |

| Frame Line | Column Line | -----Foundation Loads(k)----- |      |       |              |       |       | Anchor Bolt |     |
|------------|-------------|-------------------------------|------|-------|--------------|-------|-------|-------------|-----|
|            |             | Max_Positive                  |      |       | Max_Negative |       |       | No.         | Dia |
|            |             | Load                          | Horz | Vert  | Load         | Horz  | Vert  |             |     |
| A          | 2           | 1                             | 0.48 | -0.03 | 2            | -0.41 | -0.35 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 4            | -0.41 | -0.37 |             |     |
| A          | 3           | 1                             | 0.46 | -0.03 | 2            | -0.41 | -0.35 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 4            | -0.41 | -0.37 |             |     |
| A          | 4           | 1                             | 0.46 | -0.03 | 2            | -0.42 | -0.34 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 5            | 0.46  | -0.37 |             |     |
| A          | 5           | 1                             | 0.48 | -0.03 | 2            | -0.42 | -0.34 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 5            | 0.48  | -0.37 |             |     |
| A          | 6           | 1                             | 0.48 | -0.03 | 2            | -0.43 | -0.34 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 5            | 0.48  | -0.37 |             |     |
| A          | 7           | 3                             | 0.00 | 0.83  | 4            | 0.00  | -0.27 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 4            | 0.00  | -0.27 |             |     |
| A          | 8           | 1                             | 0.48 | -0.23 | 2            | -0.43 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 6            | 0.48  | -0.37 |             |     |
| A          | 9           | 1                             | 0.48 | -0.23 | 2            | -0.42 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 6            | 0.48  | -0.37 |             |     |
| A          | 10          | 1                             | 0.46 | -0.23 | 2            | -0.42 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 6            | 0.46  | -0.37 |             |     |
| A          | 11          | 1                             | 0.46 | -0.23 | 2            | -0.41 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 7            | -0.41 | -0.37 |             |     |
| A          | 12          | 1                             | 0.46 | -0.23 | 2            | -0.41 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 7            | -0.41 | -0.37 |             |     |
| A          | 13          | 1                             | 0.48 | -0.23 | 2            | -0.41 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 7            | -0.41 | -0.37 |             |     |
| I          | 13          | 1                             | 0.48 | -0.03 | 2            | -0.41 | -0.35 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 4            | -0.41 | -0.37 |             |     |
| I          | 12          | 1                             | 0.46 | -0.03 | 2            | -0.41 | -0.35 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 4            | -0.41 | -0.37 |             |     |
| I          | 11          | 1                             | 0.46 | -0.03 | 2            | -0.41 | -0.35 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 4            | -0.41 | -0.37 |             |     |
| I          | 10          | 1                             | 0.46 | -0.03 | 2            | -0.42 | -0.34 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 5            | 0.46  | -0.37 |             |     |
| I          | 9           | 1                             | 0.48 | -0.03 | 2            | -0.42 | -0.34 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 5            | 0.48  | -0.37 |             |     |
| I          | 8           | 1                             | 0.48 | -0.03 | 2            | -0.43 | -0.34 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 5            | 0.48  | -0.37 |             |     |
| I          | 7           | 3                             | 0.00 | 0.83  | 4            | 0.00  | -0.27 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 4            | 0.00  | -0.27 |             |     |
| I          | 6           | 1                             | 0.48 | -0.23 | 2            | -0.43 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 6            | 0.48  | -0.37 |             |     |
| I          | 5           | 1                             | 0.48 | -0.23 | 2            | -0.42 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 6            | 0.48  | -0.37 |             |     |
| I          | 4           | 1                             | 0.46 | -0.23 | 2            | -0.42 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 6            | 0.46  | -0.37 |             |     |
| I          | 3           | 1                             | 0.46 | -0.23 | 2            | -0.41 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 7            | -0.41 | -0.37 |             |     |
| I          | 2           | 1                             | 0.48 | -0.23 | 2            | -0.41 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.83  | 7            | -0.41 | -0.37 |             |     |
| A          | 14          | 1                             | 0.05 | 0.01  | 2            | -0.04 | -0.15 |             |     |
|            |             | 3                             | 0.00 | 0.44  | 4            | -0.04 | -0.16 |             |     |
| D          | 14          | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.35 |             |     |
|            |             | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.35 |             |     |
| E          | 14          | 3                             | 0.00 | 1.26  | 4            | 0.00  | -0.55 |             |     |
|            |             | 3                             | 0.00 | 1.26  | 4            | 0.00  | -0.55 |             |     |

|       |    |   |      |       |   |       |       |
|-------|----|---|------|-------|---|-------|-------|
| F     | 14 | 3 | 0.00 | 1.26  | 4 | 0.00  | -0.55 |
|       |    | 3 | 0.00 | 1.26  | 4 | 0.00  | -0.55 |
| I     | 14 | 1 | 0.05 | 0.01  | 2 | -0.04 | -0.15 |
|       |    | 3 | 0.00 | 0.44  | 4 | -0.04 | -0.16 |
| ----- |    |   |      |       |   |       |       |
| I     | 1  | 1 | 0.05 | 0.01  | 2 | -0.04 | -0.15 |
|       |    | 3 | 0.00 | 0.44  | 4 | -0.04 | -0.16 |
| F     | 1  | 3 | 0.00 | 1.26  | 4 | 0.00  | -0.55 |
|       |    | 3 | 0.00 | 1.26  | 4 | 0.00  | -0.55 |
| E     | 1  | 3 | 0.00 | 1.26  | 4 | 0.00  | -0.55 |
|       |    | 3 | 0.00 | 1.26  | 4 | 0.00  | -0.55 |
| D     | 1  | 3 | 0.00 | 0.85  | 4 | 0.00  | -0.35 |
|       |    | 3 | 0.00 | 0.85  | 4 | 0.00  | -0.35 |
| A     | 1  | 1 | 0.05 | 0.01  | 2 | -0.04 | -0.15 |
|       |    | 3 | 0.00 | 0.44  | 4 | -0.04 | -0.16 |
| ----- |    |   |      |       |   |       |       |
| D *   | 2  | 1 | 0.24 | -0.19 | 2 | -0.24 | -1.13 |
|       |    | 3 | 0.00 | 2.41  | 4 | -0.24 | -1.21 |
| D *   | 3  | 1 | 0.24 | -0.19 | 2 | -0.24 | -1.13 |
|       |    | 3 | 0.00 | 2.41  | 4 | -0.24 | -1.21 |
| D *   | 4  | 1 | 0.24 | -0.19 | 2 | -0.24 | -1.13 |
|       |    | 3 | 0.00 | 2.41  | 4 | -0.24 | -1.21 |
| D *   | 5  | 1 | 0.24 | -0.19 | 2 | -0.24 | -1.13 |
|       |    | 3 | 0.00 | 2.41  | 4 | -0.24 | -1.21 |
| D *   | 6  | 1 | 0.26 | -0.19 | 2 | -0.26 | -1.12 |
|       |    | 3 | 0.00 | 2.41  | 4 | -0.26 | -1.21 |
| D *   | 7  | 1 | 0.26 | -0.47 | 2 | -0.26 | -0.81 |
|       |    | 3 | 0.00 | 2.41  | 4 | -0.26 | -0.90 |
| D *   | 8  | 1 | 0.26 | -0.77 | 2 | -0.26 | -0.54 |
|       |    | 3 | 0.00 | 2.41  | 7 | -0.26 | -1.21 |
| D *   | 9  | 1 | 0.24 | -0.77 | 2 | -0.24 | -0.54 |
|       |    | 3 | 0.00 | 2.41  | 7 | -0.24 | -1.21 |
| D *   | 10 | 1 | 0.24 | -0.77 | 2 | -0.24 | -0.54 |
|       |    | 3 | 0.00 | 2.41  | 7 | -0.24 | -1.21 |
| D *   | 11 | 1 | 0.24 | -0.77 | 2 | -0.24 | -0.54 |
|       |    | 3 | 0.00 | 2.41  | 7 | -0.24 | -1.21 |
| D *   | 12 | 1 | 0.24 | -0.77 | 2 | -0.24 | -0.54 |
|       |    | 3 | 0.00 | 2.41  | 7 | -0.24 | -1.21 |
| D *   | 13 | 1 | 0.24 | -0.77 | 2 | -0.24 | -0.54 |
|       |    | 3 | 0.00 | 2.41  | 7 | -0.24 | -1.21 |
| ----- |    |   |      |       |   |       |       |
| @5    | 7  | 8 | 0.24 | -0.11 | 2 | -0.24 | -0.21 |
|       |    | 3 | 0.00 | 0.58  | 4 | -0.24 | -0.23 |
| @9    | 7  | 8 | 0.24 | -0.11 | 2 | -0.24 | -0.21 |
|       |    | 3 | 0.00 | 0.58  | 4 | -0.24 | -0.23 |
| ----- |    |   |      |       |   |       |       |
| @61   | 7  | 8 | 0.24 | -0.11 | 2 | -0.24 | -0.21 |
|       |    | 3 | 0.00 | 0.58  | 4 | -0.24 | -0.23 |
| @65   | 7  | 8 | 0.24 | -0.11 | 2 | -0.24 | -0.21 |
|       |    | 3 | 0.00 | 0.58  | 4 | -0.24 | -0.23 |
| ----- |    |   |      |       |   |       |       |

D \* Frame Lines: D E F

| Load Id | Load Combination                       |
|---------|--|
| 1       | 0.6Dead+0.6Wind_Right2+0.6Wind_Suction |
| 2       | Dead+0.6Wind_Pressure+0.6Wind_Long1    |
| 3       | Dead+Collateral+Live                   |
| 4       | 0.6Dead+0.6Wind_Pressure+0.6Wind_Long1 |
| 5       | 0.6Dead+0.6Wind_Suction+0.6Wind_Long1  |
| 6       | 0.6Dead+0.6Wind_Suction+0.6Wind_Long2  |
| 7       | 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2 |
| 8       | 0.6Dead+0.6Wind_Right1+0.6Wind_Suction |

BRACING/PANEL SHEAR REACTIONS:

| ---Wall-- |      | Column_Line |     | -----Bracing(k )----- |      |      |      | Panel_Shear (lb/ft) |       |
|-----------|------|-------------|-----|-----------------------|------|------|------|---------------------|-------|
| Loc       | Line | Start       | End | Horz                  | Vert | Horz | Vert | Wind                | Seis  |
| Long      |      |             |     |                       |      |      |      | 318.02              | 29.75 |
| L_EW      |      |             |     |                       |      |      |      | 15.35               | 1.69  |
| Tran      |      |             |     |                       |      |      |      | 30.70               | 2.58  |
| Tran      |      |             |     |                       |      |      |      | 46.05               | 3.40  |
| Tran      |      |             |     |                       |      |      |      | 46.05               | 3.40  |
| R_EW      |      |             |     |                       |      |      |      | 15.35               | 1.69  |

## Building Data

```

-----
Code           =IBC  18
Length        = 70.00
Width         = 65.00
Left Eave Height = 16.08
Right Eave Height = 15.88

```

## Seismic Formula

```

-----
Base Shear, V      = 0.667*Ie*Fa*Ss*W/R

                Vmin = 0.044*Sds*Ie*W
                Vmax = Sd1*Ie*W/(T*R)

T(Moment_Frame)   = 0.266
Shear Force, E    = Omega*Rho*V

T(Braced_Frame)   = 0.165
Fa*Ss             = 0.160
Zone/Design Category= B
Ie                = 1.200
S1                = 0.068
Sd1               = 0.107
Sds               = 0.105

```

## Seismic Dead Load

```

-----
Roof Dead        = 2.50 (psf )
Roof Total       = 2.50 (psf )
Endwall Dead     = 2.00 (psf )
Sidewall Dead    = 2.00 (psf )
Interior Wall Dead = 2.00 (psf )

```

## Seismic Forces

## Longitudinal Panel

R = 3.00, Omega= 3.00

```

@ 30.0      W = 19.51 (k )
            Force, V = 0.83 (k )
            Force, E = 2.50 (k )

```

## Transverse Panel

R = 3.00, Omega= 3.00

```

L_EW      W = 2.57 (k )
            Force, V = 0.11 (k )
            Force, E = 0.33 (k )

```

```

@ 14.0      W = 3.93 (k )
            Force, V = 0.17 (k )
            Force, E = 0.50 (k )

```

```

@ 28.0      W = 5.17 (k )
            Force, V = 0.22 (k )
            Force, E = 0.66 (k )

```



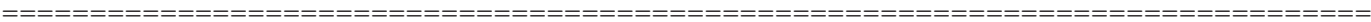
@ 56.0            W = 5.17 (k )  
                  Force, V = 0.22 (k )  
                  Force, E = 0.66 (k )

R\_EW              W = 2.57 (k )  
                  Force, V = 0.11 (k )  
                  Force, E = 0.33 (k )

Total Base Shear

  Longitudinal  
                  Force, V = 0.83 (k )

  Transverse  
                  Force, V = 0.83 (k )



```

*( 1)VERSION/UNITS:
*VERSION  Units(I/M)
'2.01'    'I'

```

```

*( 2)JOB IDENTIFICATION:
*   Job Id
'11 12

```

```

*( 3)DESIGN CODE:
*Design Steel_Code      ---Build---   Code      Seismic
* Code      Col'd      Country  Code  Year  Label      Zone
'WS'      'NAUS16'    '----'  'IBC ' '18'  'IBC 18 ' 'B '

```

```

*( 4)DESIGN CONSTANTS:
* ---Steel_Yield---  Stress  Strength_Factors
* C_Sec Z_Sec O_Sec  Ratio      Wind  Seismic
 55.0  55.0  55.0   1.03      1.0000  1.0000

```

```

*( 5)DEFLECTION LIMITS:
* -----Purlin-----  --Roof_Panel--
* Live  Wind Total      Live  Wind
180.  150.    0.      60.  60.

```

```

*( 6)REPORTS:
*Input
*Echo  Purlin  Panel
'I'    '2'    'Y'

```

```

*( 7)BUILDING SHAPE:
* Build      Build      L_Eave  R_Eave  Peak      L_Roof  No.
* Width      Length      Height  Height  Offset     Slope   Wall
65.0000  70.0000  16.0833  15.8750  30.0000  0.500  8

```

```

*( 8)WALL OPTIONS:
*Wall Design Detail  -----Notch-----      Base_Type      Base_Trim
* Id  Option Option  Depth  Width  Ext  Parapet  Panel  Jamb  Panel  Jamb
 1  'NYYY' 'YYYY'  1.500  1.500  1.500  0.0000  'O'  'O'  'Y'  'Y'
 2  'NYYY' 'YYYY'  1.500  11.250  1.500  0.0000  'O'  'O'  'Y'  'Y'
 3  'NYYY' 'YYYY'  1.500  1.500  1.500  0.0000  'O'  'O'  'Y'  'Y'
 4  'NYYY' 'YYYY'  1.500  11.250  1.500  0.0000  'O'  'O'  'Y'  'Y'

```

```

*( 9)INTERIOR WALL OPTIONS:
*Wall Design Detail  ----Notch---  Base_Type      Base_Trim
* Id  Option Option  Depth  Width  Panel  Jamb  Panel  Jamb
 6  'NYYY' 'YYYY'  0.000  0.000  '-'  '-'  'N'  'N'
 7  'NYYY' 'YYYY'  0.000  0.000  '-'  '-'  'N'  'N'
 8  'NYYY' 'YYYY'  0.000  0.000  '-'  '-'  'N'  'N'

```

```

*(10)STEP ELEVATION:
*No.      Base      Eave      Step      -Slope_Offset-
*Step      Start      End      Elev      Height     Type      Start      End
 1      0.0000  70.0000  0.0000  0.0000  '-'      0.0000  0.0000

```

```

*(11)HALL SYSTEM:
* No. Hall
-----Notch-----  -----Wall_Id
-----
*Hall  Id  Type  Orn  Opt  Width  Height  Locate  Offset  Length  Depth  Width  L  R  S
E
 0

```



\*(18) ADDITIONAL RAFTERS:

| *No. | Raf | Location | Raf | -----Offset----- | Raf   | Raf | Raf  | Set |     |       |
|------|-----|----------|-----|------------------|-------|-----|------|-----|-----|-------|
| *Raf | Id  | Use      | Id  | Locate           | Start | End | Type | Rot | Opt | Depth |
| 0    |     |          |     |                  |       |     |      |     |     |       |

\*(19) ROOF PURLINS:

| *Purlin | Flg | Strap | Set | Purlin | Max_Unbr |        |        |
|---------|-----|-------|-----|--------|----------|--------|--------|
| *Type   | Opt | OS    | IS  | Offset | Depth    | Lap    | Length |
| 'ZB'    | '-' | 'C'   | 'N' | 0.000  | 0.000    | 1.0000 | 0.0000 |

\*(20) PURLIN SPACING:

| *Peak  | No      | ---Purlin--- |
|--------|---------|--------------|
| *Space | Purlins | Location Rot |
| 0.0000 | 12      | 5.0000 'N'   |
|        |         | 10.0000 'N'  |
|        |         | 15.0000 'N'  |
|        |         | 20.0000 'N'  |
|        |         | 25.0000 'N'  |
|        |         | 30.0000 'N'  |
|        |         | 35.0000 'Y'  |
|        |         | 40.0000 'Y'  |
|        |         | 45.0000 'Y'  |
|        |         | 50.0000 'Y'  |
|        |         | 55.0000 'Y'  |
|        |         | 60.0000 'Y'  |

\*(21) PURLIN SIZE:

| *No. | Part |
|------|------|
| 0    |      |

\*(22) EAVE STRUT:

| *Wall | Eave_Strut |       |        |
|-------|------------|-------|--------|
| *Id   | Type       | Depth | Gutter |
| 2     | '-'        | 0.000 | 'N'    |
| 4     | '-'        | 0.000 | 'N'    |

\*(23) EXTERIOR WALL PANEL:

| *Wall | -----Wall_Panel----- |     |      |       |       |
|-------|----------------------|-----|------|-------|-------|
| *Id   | Part                 | Rot | Opt  | Screw | Color |
| 1     | 'CUSPANL'            | '-' | '--' | 'S--' | 'A1'  |
| 2     | 'CUSPANL'            | '-' | '--' | 'S--' | 'A1'  |
| 3     | 'CUSPANL'            | '-' | '--' | 'S--' | 'A1'  |
| 4     | 'CUSPANL'            | '-' | '--' | 'S--' | 'A1'  |

\*(24) INTERIOR WALL PANEL:

| *Wall | -----Wall_Panel----- |     |      |       |       |
|-------|----------------------|-----|------|-------|-------|
| *Id   | Part                 | Rot | Opt  | Screw | Color |
| 6     | 'PBR29'              | 'R' | '--' | 'S--' | 'GL'  |
| 7     | 'PBR29'              | 'R' | '--' | 'S--' | 'GL'  |
| 8     | 'PBR29'              | 'R' | '--' | 'S--' | 'GL'  |

\*(25) ROOF PANEL:

| *Panel  | Panel | Screw | -----Standing_Seam----- |      |       |         |      |       |
|---------|-------|-------|-------------------------|------|-------|---------|------|-------|
| *Size   | Opt   | Type  | Use                     | Type | Clip  | Seam    | Type | Clamp |
| 'PBR26' | '-'   | 'S--' | 'N'                     | '3U' | 3.000 | '-----' | 'N'  |       |

\*(26) EXTERIOR WIND FRAMING:

| *Wall | Panel | Brace | Wall | No.  |     |
|-------|-------|-------|------|------|-----|
| *Id   | Shear | Type  | Opt  | Dead | Bay |
| 1     | 'Y'   | 'N'   | '-'  | 2.00 | 0   |
| 2     | 'Y'   | 'N'   | '-'  | 2.00 | 0   |
| 3     | 'Y'   | 'N'   | '-'  | 2.00 | 0   |
| 4     | 'Y'   | 'N'   | '-'  | 2.00 | 0   |
| 5     | 'Y'   | 'N'   | '-'  | 2.50 | 0   |

```

*(27) INTERIOR WIND FRAMING:
*   Panel  Brace      Wall No.
*   Shear  Type  Opt  Dead Bay
*   'Y'    'N'  '-'  2.00  0
*   'Y'    'N'  '-'  2.00  0

```

```

*(28) BASIC LOADS:
*
*           ---Deflection---
*   Dead  Collat  Live  Snow  Rain  Basic  Load_Ratio
*   Load  Load  Load  Load  Load  Wind  Snow  Wind  Seis
*   2.0    0.5   20.0  13.4  0.0   19.2  1.00  0.54  1.00

```

```

*(29) WIND PRESSURE/SUCTION:
*   Wind      Wind
*   Press     Suct
*   16.0      -17.9      .. Purlins
*   16.0      -20.8      .. Panels

```

```

*(30) ROOF EDGE & CORNER ZONES:
*Surf No  Zone
* Id  Zone  Id  Width  Length  Press  Suct  Press  Suct
2   7     1   0.00   0.00   1.00   1.00   1.00   1.00 .. Interior
      2   9.52   9.52   1.00   1.45   1.00   1.74 .. Middle
      7   3.18   9.52   1.00   2.15   1.00   3.13 .. Corner top-left
      8   3.18   9.52   1.00   2.15   1.00   3.13 .. Corner top-right
      11  6.35   3.18   1.00   2.15   1.00   3.13 .. Corner Gable top-left
      12  6.35   3.18   1.00   2.15   1.00   3.13 .. Corner Gable top-right
      15  9.52   9.52   1.00   1.93   1.00   2.30 .. Exterior
3   7     1   0.00   0.00   1.00   1.00   1.00   1.00 .. Interior
      2   9.52   9.52   1.00   1.45   1.00   1.74 .. Middle
      9   3.18   9.52   1.00   2.15   1.00   3.13 .. Corner bot-right
      10  3.18   9.52   1.00   2.15   1.00   3.13 .. Corner bot-left
      13  6.35   3.18   1.00   2.15   1.00   3.13 .. Corner Gable bot-right
      14  6.35   3.18   1.00   2.15   1.00   3.13 .. Corner Gable bot-left
      15  9.52   9.52   1.00   1.93   1.00   2.30 .. Exterior

```

```

*(31) PURLIN DESIGN LOADS:
* No_Des  Load
* Loads  Id  Dead  Collat  Live  Snow  Drift  Rain  Wind  Wind  Aux_Load
*       17  1  1.00  1.00  1.00  0.00  0.00  0.00  0.00  0.00  0  0.00
*       2  1.00  1.00  0.00  1.00  0.00  0.00  0.00  0.00  0.00  0  0.00
*       3  1.00  1.00  0.00  1.00  1.00  0.00  0.00  0.00  0.00  0  0.00
*       4  1.00  1.00  0.75  0.00  0.00  0.00  0.45  0.00  0.00  0  0.00
*       5  1.00  1.00  0.00  0.75  0.00  0.00  0.45  0.00  0.00  0  0.00
*       6  1.00  1.00  0.00  0.75  0.75  0.00  0.45  0.00  0.00  0  0.00
*       7  0.60  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.60  0  0.00
*       8  1.00  1.00  0.00  0.01  0.00  0.00  0.00  0.00  0.00  1  1.00
*       9  1.00  1.00  0.00  0.01  0.00  0.00  0.45  0.00  0.00  1  0.75
*      10  1.00  1.00  0.00  0.50  0.00  0.00  0.00  0.00  0.00  4  1.00
*      11  1.00  1.00  0.00  0.50  0.00  0.00  0.00  0.00  0.00  5  1.00
*      12  1.00  1.00  0.00  0.50  0.00  0.00  0.00  0.00  0.00  6  1.00
*      13  1.00  1.00  0.00  0.50  0.00  0.00  0.00  0.00  0.00  2  1.00
*      14  1.00  1.00  0.00  0.50  0.00  0.00  0.00  0.00  0.00  3  1.00
*      15  1.00  1.00  0.00  1.00  0.00  0.00  0.00  0.00  0.00  2 -1.00
*      16  1.00  1.00  0.00  1.00  0.00  0.00  0.00  0.00  0.00  3 -1.00
*      17  1.00  1.00  0.00  0.01  0.00  0.00  0.00  0.00  0.00  7  1.00

```

```

*(32) PURLIN DESIGN LOADS: Deflection
* No_Des  Load
* Loads  Id  Dead  Collat  Live  Snow  Drift  Rain  Wind  Wind  Aux_Load
*       17  18  1.00  1.00  1.00  0.00  0.00  0.00  0.00  0.00  0  0.00
*       19  1.00  1.00  0.00  1.00  0.00  0.00  0.00  0.00  0.00  0  0.00
*       20  1.00  1.00  0.00  1.00  1.00  0.00  0.00  0.00  0.00  0  0.00
*       21  1.00  1.00  0.75  0.00  0.00  0.00  0.75  0.00  0.00  0  0.00
*       22  1.00  1.00  0.00  0.75  0.00  0.00  0.75  0.00  0.00  0  0.00

```

|    |      |      |      |      |      |      |      |      |   |       |
|----|------|------|------|------|------|------|------|------|---|-------|
| 23 | 1.00 | 1.00 | 0.00 | 0.75 | 0.75 | 0.00 | 0.75 | 0.00 | 0 | 0.00  |
| 24 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0 | 0.00  |
| 25 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 1 | 1.00  |
| 26 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.75 | 0.00 | 1 | 0.75  |
| 27 | 1.00 | 1.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 4 | 1.00  |
| 28 | 1.00 | 1.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 5 | 1.00  |
| 29 | 1.00 | 1.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 6 | 1.00  |
| 30 | 1.00 | 1.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2 | 1.00  |
| 31 | 1.00 | 1.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 3 | 1.00  |
| 32 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2 | -1.00 |
| 33 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3 | -1.00 |
| 34 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 7 | 1.00  |

\*(33) PANEL DESIGN LOADS:

| * No_Des | Load |      |        |      |      |       |      | Wind  | Wind | Aux_Load |      |
|----------|------|------|--------|------|------|-------|------|-------|------|----------|------|
| * Loads  | Id   | Dead | Collat | Live | Snow | Drift | Rain | Press | Suct | Id       | Coef |
| 9        | 1    | 1.00 | 0.00   | 1.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0        | 0.00 |
|          | 2    | 1.00 | 0.00   | 0.00 | 1.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0        | 0.00 |
|          | 3    | 1.00 | 0.00   | 0.00 | 1.00 | 1.00  | 0.00 | 0.00  | 0.00 | 0        | 0.00 |
|          | 4    | 1.00 | 0.00   | 0.75 | 0.00 | 0.00  | 0.00 | 0.45  | 0.00 | 0        | 0.00 |
|          | 5    | 1.00 | 0.00   | 0.00 | 0.75 | 0.00  | 0.00 | 0.45  | 0.00 | 0        | 0.00 |
|          | 6    | 0.60 | 0.00   | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.60 | 0        | 0.00 |
|          | 7    | 1.00 | 0.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.00  | 0.00 | 1        | 1.00 |
|          | 8    | 1.00 | 0.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.45  | 0.00 | 1        | 0.75 |
|          | 9    | 1.00 | 1.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.00  | 0.00 | 7        | 1.00 |

\*(34) PANEL DESIGN LOADS: Deflection

| * No_Des | Load |      |        |      |      |       |      | Wind  | Wind | Aux_Load |      |
|----------|------|------|--------|------|------|-------|------|-------|------|----------|------|
| * Loads  | Id   | Dead | Collat | Live | Snow | Drift | Rain | Press | Suct | Id       | Coef |
| 7        | 10   | 0.00 | 0.00   | 1.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0        | 0.00 |
|          | 11   | 0.00 | 0.00   | 0.00 | 1.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0        | 0.00 |
|          | 12   | 0.00 | 0.00   | 0.00 | 1.00 | 1.00  | 0.00 | 0.00  | 0.00 | 0        | 0.00 |
|          | 13   | 0.00 | 0.00   | 0.00 | 0.00 | 0.00  | 0.00 | 1.00  | 0.00 | 0        | 0.00 |
|          | 14   | 0.00 | 0.00   | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 1.00 | 0        | 0.00 |
|          | 15   | 0.00 | 0.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.00  | 0.00 | 1        | 1.00 |
|          | 16   | 1.00 | 1.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.00  | 0.00 | 7        | 1.00 |

\*(35) AUXILIARY LOADS:

| * No. | Aux | Aux       | No._Add | Add_Load |      |
|-------|-----|-----------|---------|----------|------|
| * Aux | Id  | Name      | Combs   | Id       | Coef |
| 7     | 1   | 'MIN_SNOW | ' 2     | 1        | 1.00 |
|       |     |           |         | 2        | 1.00 |
|       | 2   | 'PAT_SL_1 | ' 1     | 3        | 0.50 |
|       | 3   | 'PAT_SL_2 | ' 1     | 6        | 0.50 |
|       | 4   | 'PAT_SL_3 | ' 2     | 3        | 0.50 |
|       |     |           |         | 4        | 0.50 |
|       | 5   | 'PAT_SL_4 | ' 2     | 4        | 0.50 |
|       |     |           |         | 5        | 0.50 |
|       | 6   | 'PAT_SL_5 | ' 2     | 5        | 0.50 |
|       |     |           |         | 6        | 0.50 |
|       | 7   | 'UNB_SL   | ' 4     | 7        | 1.00 |
|       |     |           |         | 8        | 0.40 |
|       |     |           |         | 9        | 1.00 |
|       |     |           |         | 10       | 0.37 |

\*(36) ADDITIONAL LOADS:

\*No. Add Surf Basic Load Load F D ---Surface---

| *Add | Id | Id | Load     | Type | Orn | W1     | W2     | D1      | D2      | Start | End    |
|------|----|----|----------|------|-----|--------|--------|---------|---------|-------|--------|
| 10   | 1  | 2  | 'U_SNOW' | 'D'  | 'T' | -16.00 | -16.00 | 0.0000  | 30.0260 | 0.000 | 70.000 |
|      | 2  | 3  | 'U_SNOW' | 'D'  | 'T' | -16.00 | -16.00 | 0.0000  | 35.0304 | 0.000 | 70.000 |
|      | 3  | 0  | 'U_SNOW' | 'D'  | 'L' | -13.44 | -13.44 | 0.0000  | 14.0000 | 0.000 | 0.000  |
|      | 4  | 0  | 'U_SNOW' | 'D'  | 'L' | -13.44 | -13.44 | 14.0000 | 28.0000 | 0.000 | 0.000  |
|      | 5  | 0  | 'U_SNOW' | 'D'  | 'L' | -13.44 | -13.44 | 28.0000 | 56.0000 | 0.000 | 0.000  |
|      | 6  | 0  | 'U_SNOW' | 'D'  | 'L' | -13.44 | -13.44 | 56.0000 | 70.0000 | 0.000 | 0.000  |
|      | 7  | 2  | 'U_SNOW' | 'D'  | 'T' | -13.44 | -13.44 | 0.0000  | 30.0260 | 0.000 | 70.000 |
|      | 8  | 2  | 'U_SNOW' | 'D'  | 'T' | -13.44 | -13.44 | 9.0934  | 30.0260 | 0.000 | 70.000 |
|      | 9  | 3  | 'U_SNOW' | 'D'  | 'T' | -13.44 | -13.44 | 0.0000  | 35.0304 | 0.000 | 70.000 |
|      | 10 | 3  | 'U_SNOW' | 'D'  | 'T' | -13.44 | -13.44 | 0.0000  | 19.0065 | 0.000 | 70.000 |

\*(37) PURLIN BREAK:

\*Opt No. Location  
'-' 0

\*(38) PANEL SCREWS:

| *No. | Zone   | Locate | Id | Zone   | Part   | Dia   | Limit | Washer Dia | -----Spacing-----  |
|------|--------|--------|----|--------|--------|-------|-------|------------|--------------------|
| 3    | 'ROOF' | '      | 0  | 'INT'  | '#17A' | 0.209 | 2.900 | 0.500      | 11.429 5.714 0.000 |
|      | 'ROOF' | '      | 0  | 'EDGE' | '#17A' | 0.209 | 2.900 | 0.500      | 11.429 5.714 0.000 |
|      | 'ROOF' | '      | 0  | 'CORN' | '#17A' | 0.209 | 2.900 | 0.500      | 11.429 5.714 0.000 |

\*(39) ADDITIONAL ROOF FRAMING:

| *No. | Id | Use | Orn | Offset | Start | End | Type | Opt | Rot | Part |
|------|----|-----|-----|--------|-------|-----|------|-----|-----|------|
| 0    |    |     |     |        |       |     |      |     |     |      |

\*(40) CONNECTION SCREWS:

| *No. | Use   | Part  | Limit | Qty |
|------|-------|-------|-------|-----|
| 1    | 'LAP' | '#1A' | 2.05  | 6   |

\*AUXILIARY LOAD DESCRIPTIONS:

| * Aux | Id | Description          |
|-------|----|----------------------|
|       | 1  | Minimum snow load    |
|       | 2  | Pattern snow load    |
|       | 3  | Pattern snow load    |
|       | 4  | Pattern snow load    |
|       | 5  | Pattern snow load    |
|       | 6  | Pattern snow load    |
|       | 7  | Unbalanced snow load |

\*ADDITIONAL LOAD DESCRIPTIONS:

| * Add | Id | Description                    |
|-------|----|--------------------------------|
|       | 1  | Minimum snow load surface 2    |
|       | 2  | Minimum snow load surface 3    |
|       | 3  | Pattern snow load bay 1        |
|       | 4  | Pattern snow load bay 2        |
|       | 5  | Pattern snow load bay 3        |
|       | 6  | Pattern snow load bay 4        |
|       | 7  | Unbalanced snow load surface 2 |
|       | 8  | Unbalanced snow load surface 2 |
|       | 9  | Unbalanced snow load surface 3 |
|       | 10 | Unbalanced snow load surface 3 |

\* Code file used was ROOFIBC.18N Version 4.5

STRUCTURAL CODE:

Design Basis : WS - Working Stress  
Cold Formed Steel : NAUS16

BUILDING CODE:

Wind Code : IBC 18  
Seismic Zone : B

MODULUS OF ELASTICITY

Cold Formed Steel : 29500 (ksi )



SURFACE LAYOUT:

| Surface Id | Length | No. Row |
|------------|--------|---------|
| 2          | 30.026 | 5       |

PURLIN LOCATION:

| Purlin Id | Surf Offset | Space | Load Width | Dead Load | Show Report | -----Max_Load-----<br>Id UC Report |
|-----------|-------------|-------|------------|-----------|-------------|------------------------------------|
| 1         | 5.004       | 5.004 | 5.004      | 0.99      | Y           | 7 0.95 Moment                      |
| 2         | 10.009      | 5.004 | 5.004      | 0.99      |             | 4 0.91 Moment                      |
| 3         | 15.013      | 5.004 | 5.004      | 0.99      |             | 4 0.91 Moment                      |
| 4         | 20.017      | 5.004 | 5.004      | 0.99      |             | 4 0.91 Moment                      |
| 5         | 25.022      | 5.004 | 5.004      | 0.99      |             | 4 0.91 Moment                      |
|           | 30.026      | 5.004 |            |           |             |                                    |

-----  
Average= 0.99

LAYOUT:

| Bay Id      | Part     | Bay Width | ---Lap(ft)--<br>Left Right |      | No. Brace | Unit Weight | Total Weight |
|-------------|----------|-----------|----------------------------|------|-----------|-------------|--------------|
| 1           | 10X25Z12 | 28.00     |                            | 1.00 | 0         | 165.0       | 825.1        |
| 2           | 10X25Z14 | 28.00     | 1.00                       | 1.00 | 0         | 122.1       | 610.5        |
| 3           | 10X25Z14 | 14.00     | 1.00                       |      | 0         | 61.1        | 305.3        |
| Total (lb)= |          |           |                            |      |           | 348.2       | 1740.8       |

LOAD COMBINATIONS:

- 4 - Dead+Collateral+0.75Live+0.45Wind\_Pressure
- 7 - 0.6Dead+0.6Wind\_Suction

ROOF PURLIN

Surface Id = 2  
 Purlin Id = 1  
 Offset = 5.00

PURLIN LAYOUT:

| Bay Id | Part     | Design Length (ft) | ---Lap(ft)--- |       | Load Width | No. Brace | Unit Weight | Available Reduction |      |
|--------|----------|--------------------|---------------|-------|------------|-----------|-------------|---------------------|------|
|        |          |                    | Left          | Right |            |           |             | Out                 | In   |
| 1      | 10X25Z12 | 14.00              |               |       | 5.00       | 0         | 79.7        | 0.00                | 0.70 |
| 1      | 10X25Z12 | 14.00              |               | 1.00  | 5.00       | 0         | 85.3        | 0.00                | 0.50 |
| 2      | 10X25Z14 | 28.00              | 1.00          | 1.00  | 5.00       | 0         | 122.1       | 0.00                | 0.50 |
| 3      | 10X25Z14 | 14.00              | 1.00          |       | 5.00       | 0         | 61.1        | 0.00                | 0.50 |

LOAD ID 1 : Dead+Collateral+Live

REACTIONS:

| Bay Id | -----Shear(k)----- |          |           |           | -----Moment(f-k)----- |          |              |           |           |      |
|--------|--------------------|----------|-----------|-----------|-----------------------|----------|--------------|-----------|-----------|------|
|        | Left Sup           | Left Lap | Right Lap | Right Sup | Left Sup              | Left Lap | Mid-Span Mom | Right Lap | Right Sup |      |
| 1      | 0.71               |          |           | -0.87     | 0.00                  |          | -2.23        | 6.30      |           | 1.11 |
| 1      | 0.39               |          | -1.07     | -1.18     | 1.11                  |          | 0.42         | 3.50      | 5.49      | 6.62 |
| 2      | 1.58               | 1.47     | -1.45     | -1.56     | 6.62                  | 5.09     | -4.55        | 14.09     | 4.81      | 6.32 |
| 3      | 1.24               | 1.13     |           | -0.34     | 6.32                  | 5.14     | -0.50        | 11.02     |           | 0.00 |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear(k)----- |       |       |      | -----Moment(f-k)----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|--------------------|-------|-------|------|-----------------------|-------|-------|------|-----------|------|-------------|-------|
|        | Loc                | Calc  | Limit | UC   | Loc                   | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup               | -0.87 | 10.94 | 0.08 | MidS                  | -2.23 | 10.67 | 0.21 | RSup      | 0.12 | -0.11       |       |
| 1      | RLap               | -1.07 | 10.94 | 0.10 | RLap                  | 5.49  | 6.64  | 0.83 | RLap      | 0.46 | 0.10        |       |
| 2      | LLap               | 1.47  | 3.81  | 0.39 | LLap                  | 5.09  | 6.81  | 0.75 | LLap      | 0.72 | -0.93       |       |
| 3      | LLap               | 1.13  | 3.81  | 0.30 | LLap                  | 5.14  | 6.66  | 0.77 | LLap      | 0.68 | 0.07        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0                | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20 | 0.20 | 0.20 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                 | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76 | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                 | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00 | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 2 : Dead+Collateral+Snow

REACTIONS:

| Bay Id | -----Shear(k)----- |          |           |           | -----Moment(f-k)----- |          |              |           |           |      |
|--------|--------------------|----------|-----------|-----------|-----------------------|----------|--------------|-----------|-----------|------|
|        | Left Sup           | Left Lap | Right Lap | Right Sup | Left Sup              | Left Lap | Mid-Span Mom | Right Lap | Right Sup |      |
| 1      | 0.50               |          |           | -0.61     | 0.00                  |          | -1.58        | 6.30      |           | 0.78 |
| 1      | 0.28               |          | -0.75     | -0.83     | 0.78                  |          | 0.29         | 3.50      | 3.88      | 4.68 |
| 2      | 1.12               | 1.04     | -1.03     | -1.10     | 4.68                  | 3.60     | -3.21        | 14.09     | 3.40      | 4.47 |
| 3      | 0.88               | 0.80     |           | -0.24     | 4.47                  | 3.63     | -0.35        | 11.02     |           | 0.00 |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | Shear(k ) |       |      | Moment(f-k ) |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|-----------|-------|------|--------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc      | Limit | UC   | Loc          | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.61     | 10.94 | 0.06 | MidS         | -1.58 | 10.67 | 0.15 | RSup      | 0.09 | -0.08       |       |
| 1      | RLap | -0.75     | 10.94 | 0.07 | RLap         | 3.88  | 6.64  | 0.58 | RLap      | 0.33 | 0.07        |       |
| 2      | LLap | 1.04      | 3.81  | 0.27 | LLap         | 3.60  | 6.81  | 0.53 | LLap      | 0.51 | -0.66       |       |
| 3      | LLap | 0.80      | 3.81  | 0.21 | LLap         | 3.63  | 6.66  | 0.54 | LLap      | 0.48 | 0.05        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | Minor(ft) |      |      |      |      | Mom1/Mom2 |      |      |      |      | Cb   |      |      |      |      |
|--------|------------|-----------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|
|        |            | LSup      | LLap | MidS | RLap | RSup | LSup      | LLap | MidS | RLap | RSup | LSup | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6      | 1.0  | 1.0  | 1.0  | 1.4  | 1.00      | 1.00 | 1.00 | 1.00 | 0.00 | 1.14 | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0      | 13.0 | 13.0 | 13.0 | 1.0  | 0.20      | 0.20 | 0.20 | 0.20 | 0.83 | 2.30 | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0       | 4.1  | 1.0  | 3.9  | 1.0  | 0.77      | 0.00 | 1.00 | 0.00 | 0.76 | 1.10 | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0       | 7.0  | 1.0  | 1.0  | 6.0  | 0.81      | 0.00 | 1.00 | 1.00 | 1.00 | 1.08 | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 3 : Dead+Collateral+Snow+Snow\_Drift

REACTIONS:

| Bay Id | Shear(k ) |          |           |           | Moment(f-k ) |          |              |           |           |           |           |
|--------|-----------|----------|-----------|-----------|--------------|----------|--------------|-----------|-----------|-----------|-----------|
|        | Left Sup  | Left Lap | Right Lap | Right Sup | Left Sup     | Left Lap | Mid-Span Mom | Right Lap | Right Sup | Right Lap | Right Sup |
| 1      | 0.50      |          |           | -0.61     | 0.00         |          | -1.58        | 6.30      |           |           | 0.78      |
| 1      | 0.28      |          | -0.75     | -0.83     | 0.78         |          | 0.29         | 3.50      | 3.88      |           | 4.68      |
| 2      | 1.12      | 1.04     | -1.03     | -1.10     | 4.68         | 3.60     | -3.21        | 14.09     | 3.40      |           | 4.47      |
| 3      | 0.88      | 0.80     |           | -0.24     | 4.47         | 3.63     | -0.35        | 11.02     |           |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | Shear(k ) |       |      | Moment(f-k ) |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|-----------|-------|------|--------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc      | Limit | UC   | Loc          | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.61     | 10.94 | 0.06 | MidS         | -1.58 | 10.67 | 0.15 | RSup      | 0.09 | -0.08       |       |
| 1      | RLap | -0.75     | 10.94 | 0.07 | RLap         | 3.88  | 6.64  | 0.58 | RLap      | 0.33 | 0.07        |       |
| 2      | LLap | 1.04      | 3.81  | 0.27 | LLap         | 3.60  | 6.81  | 0.53 | LLap      | 0.51 | -0.66       |       |
| 3      | LLap | 0.80      | 3.81  | 0.21 | LLap         | 3.63  | 6.66  | 0.54 | LLap      | 0.48 | 0.05        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | Minor(ft) |      |      |      |      | Mom1/Mom2 |      |      |      |      | Cb   |      |      |      |      |
|--------|------------|-----------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|
|        |            | LSup      | LLap | MidS | RLap | RSup | LSup      | LLap | MidS | RLap | RSup | LSup | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6      | 1.0  | 1.0  | 1.0  | 1.4  | 1.00      | 1.00 | 1.00 | 1.00 | 0.00 | 1.14 | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0      | 13.0 | 13.0 | 13.0 | 1.0  | 0.20      | 0.20 | 0.20 | 0.20 | 0.83 | 2.30 | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0       | 4.1  | 1.0  | 3.9  | 1.0  | 0.77      | 0.00 | 1.00 | 0.00 | 0.76 | 1.10 | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0       | 7.0  | 1.0  | 1.0  | 6.0  | 0.81      | 0.00 | 1.00 | 1.00 | 1.00 | 1.08 | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 4 : Dead+Collateral+0.75Live+0.45Wind\_Pressure

REACTIONS:

| Bay Id | Shear(k ) |          |           |           | Moment(f-k ) |          |              |           |           |           |           |
|--------|-----------|----------|-----------|-----------|--------------|----------|--------------|-----------|-----------|-----------|-----------|
|        | Left Sup  | Left Lap | Right Lap | Right Sup | Left Sup     | Left Lap | Mid-Span Mom | Right Lap | Right Sup | Right Lap | Right Sup |
| 1      | 0.78      |          |           | -0.95     | 0.00         |          | -2.45        | 6.30      |           |           | 1.21      |
| 1      | 0.43      |          | -1.17     | -1.30     | 1.21         |          | 0.46         | 3.50      | 6.03      |           | 7.27      |
| 2      | 1.74      | 1.62     | -1.59     | -1.72     | 7.27         | 5.59     | -5.00        | 14.09     | 5.29      |           | 6.94      |
| 3      | 1.36      | 1.24     |           | -0.37     | 6.94         | 5.65     | -0.55        | 11.02     |           |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay | Loc | Shear(k ) |  |  | Moment(f-k ) |  |  |  | Mom+Shear |  | Deflect(in) |  |
|-----|-----|-----------|--|--|--------------|--|--|--|-----------|--|-------------|--|
|-----|-----|-----------|--|--|--------------|--|--|--|-----------|--|-------------|--|

| Id | Loc  | Calc  | Limit | UC   | Loc  | Calc  | Limit | UC   | Loc  | UC   | Calc  | Limit |
|----|------|-------|-------|------|------|-------|-------|------|------|------|-------|-------|
| 1  | RSup | -0.95 | 10.94 | 0.09 | MidS | -2.45 | 10.67 | 0.23 | RSup | 0.13 | -0.12 |       |
| 1  | RLap | -1.17 | 10.94 | 0.11 | RLap | 6.03  | 6.64  | 0.91 | RLap | 0.51 | 0.11  |       |
| 2  | LLap | 1.62  | 3.81  | 0.42 | LLap | 5.59  | 6.81  | 0.82 | LLap | 0.79 | -1.02 |       |
| 3  | LLap | 1.24  | 3.81  | 0.32 | LLap | 5.65  | 6.66  | 0.85 | LLap | 0.75 | 0.08  |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|-----|-------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.72 |
| 2   | 14.0  | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20 | 0.20 | 0.20 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3   | 28.0  | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76 | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4   | 14.0  | 1.0                  | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00 | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 5 : Dead+Collateral+0.75Snow+0.45Wind\_Pressure

REACTIONS:

| Bay | -----Shear (k )----- |          |           |           | -----Moment (f-k )----- |          |              |           |           |  |
|-----|----------------------|----------|-----------|-----------|-------------------------|----------|--------------|-----------|-----------|--|
| Id  | Left Sup             | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Right Lap | Right Sup |  |
| 1   | 0.62                 |          |           | -0.76     | 0.00                    |          | -1.96        | 6.30      | 0.97      |  |
| 1   | 0.35                 |          | -0.94     | -1.04     | 0.97                    |          | 0.37         | 3.50      | 4.82      |  |
| 2   | 1.39                 | 1.29     | -1.27     | -1.37     | 5.81                    | 4.47     | -3.99        | 14.09     | 4.23      |  |
| 3   | 1.09                 | 0.99     |           | -0.29     | 5.55                    | 4.51     | -0.44        | 11.02     | 0.00      |  |

STRENGTH/DEFLECTION:

| Bay | -----Shear (k )----- |       |       | -----Moment (f-k )----- |      |       |       | Mom+Shear | Deflect (in) |      |
|-----|----------------------|-------|-------|-------------------------|------|-------|-------|-----------|--------------|------|
| Id  | Loc                  | Calc  | Limit | UC                      | Loc  | Calc  | Limit | UC        | Loc          | UC   |
| 1   | RSup                 | -0.76 | 10.94 | 0.07                    | MidS | -1.96 | 10.67 | 0.18      | RSup         | 0.11 |
| 1   | RLap                 | -0.94 | 10.94 | 0.09                    | RLap | 4.82  | 6.64  | 0.73      | RLap         | 0.41 |
| 2   | LLap                 | 1.29  | 3.81  | 0.34                    | LLap | 4.47  | 6.81  | 0.66      | LLap         | 0.63 |
| 3   | LLap                 | 0.99  | 3.81  | 0.26                    | LLap | 4.51  | 6.66  | 0.68      | LLap         | 0.60 |

UNBRACED LENGTH:

| Bay | Major | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|-----|-------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.72 |
| 2   | 14.0  | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20 | 0.20 | 0.20 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3   | 28.0  | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76 | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4   | 14.0  | 1.0                  | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00 | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 6 : Dead+Collateral+0.75Snow+0.45Wind\_Pressure+0.75Snow\_Drift

REACTIONS:

| Bay | -----Shear (k )----- |          |           |           | -----Moment (f-k )----- |          |              |           |           |  |
|-----|----------------------|----------|-----------|-----------|-------------------------|----------|--------------|-----------|-----------|--|
| Id  | Left Sup             | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Right Lap | Right Sup |  |
| 1   | 0.62                 |          |           | -0.76     | 0.00                    |          | -1.96        | 6.30      | 0.97      |  |
| 1   | 0.35                 |          | -0.94     | -1.04     | 0.97                    |          | 0.37         | 3.50      | 4.82      |  |
| 2   | 1.39                 | 1.29     | -1.27     | -1.37     | 5.81                    | 4.47     | -3.99        | 14.09     | 4.23      |  |
| 3   | 1.09                 | 0.99     |           | -0.29     | 5.55                    | 4.51     | -0.44        | 11.02     | 0.00      |  |

STRENGTH/DEFLECTION:

| Bay | -----Shear (k )----- |       |       | -----Moment (f-k )----- |      |       |       | Mom+Shear | Deflect (in) |      |
|-----|----------------------|-------|-------|-------------------------|------|-------|-------|-----------|--------------|------|
| Id  | Loc                  | Calc  | Limit | UC                      | Loc  | Calc  | Limit | UC        | Loc          | UC   |
| 1   | RSup                 | -0.76 | 10.94 | 0.07                    | MidS | -1.96 | 10.67 | 0.18      | RSup         | 0.11 |

|   |      |       |       |      |      |      |      |      |      |      |       |
|---|------|-------|-------|------|------|------|------|------|------|------|-------|
| 1 | RLap | -0.94 | 10.94 | 0.09 | RLap | 4.82 | 6.64 | 0.73 | RLap | 0.41 | 0.09  |
| 2 | LLap | 1.29  | 3.81  | 0.34 | LLap | 4.47 | 6.81 | 0.66 | LLap | 0.63 | -0.82 |
| 3 | LLap | 0.99  | 3.81  | 0.26 | LLap | 4.51 | 6.66 | 0.68 | LLap | 0.60 | 0.06  |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20 | 0.20 | 0.20 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76 | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                  | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00 | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 7 : 0.6Dead+0.6Wind\_Suction

REACTIONS:

| Bay Id | -----Shear (k )----- |          |           |           | -----Moment (f-k )----- |          |              |           |           |       |
|--------|----------------------|----------|-----------|-----------|-------------------------|----------|--------------|-----------|-----------|-------|
|        | Left Sup             | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Right Lap | Right Sup |       |
| 1      | -0.65                |          |           | 0.76      | 0.00                    |          | 1.98         | 6.45      |           | -0.99 |
| 1      | -0.35                |          | 0.93      | 1.02      | -0.99                   |          | -0.38        | 3.53      | -4.76     | -5.74 |
| 2      | -1.38                | -1.28    | 1.26      | 1.36      | -5.74                   | -4.41    | 3.95         | 14.08     | -4.21     | -5.52 |
| 3      | -1.09                | -0.99    |           | 0.33      | -5.52                   | -4.48    | 0.49         | 10.75     |           | 0.00  |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear (k )----- |       |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|----------------------|-------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        | Loc                  | Calc  | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup                 | 0.76  | 10.94 | 0.07 | MidS                    | 1.98  | 8.52  | 0.23 | RSup      | 0.11 | 0.10         |       |
| 1      | RLap                 | 0.93  | 10.94 | 0.08 | RLap                    | -4.76 | 10.67 | 0.45 | RLap      | 0.40 | -0.09        |       |
| 2      | LLap                 | -1.28 | 3.81  | 0.34 | MidS                    | 3.95  | 4.17  | 0.95 | LLap      | 0.63 | 0.81         |       |
| 3      | LLap                 | -0.99 | 3.81  | 0.26 | LLap                    | -4.48 | 6.31  | 0.71 | LLap      | 0.60 | -0.06        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.5                 | 12.5 | 12.5 | 12.5 | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.13         | 1.13 | 1.13 | 1.13 | 1.00 |
| 2      | 14.0       | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.00 | 1.00 | 1.00 |
| 3      | 28.0       | 1.0                  | 1.0  | 17.9 | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.14 | 1.00 | 1.00 |
| 4      | 14.0       | 1.0                  | 1.0  | 5.9  | 5.9  | 5.9  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.13 | 1.13 | 1.13 |

LOAD ID 8 : Dead+Collateral+MIN\_SNOW

REACTIONS:

| Bay Id | -----Shear (k )----- |          |           |           | -----Moment (f-k )----- |          |              |           |           |      |
|--------|----------------------|----------|-----------|-----------|-------------------------|----------|--------------|-----------|-----------|------|
|        | Left Sup             | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Right Lap | Right Sup |      |
| 1      | 0.58                 |          |           | -0.71     | 0.00                    |          | -1.83        | 6.30      |           | 0.91 |
| 1      | 0.32                 |          | -0.88     | -0.97     | 0.91                    |          | 0.34         | 3.50      | 4.52      | 5.44 |
| 2      | 1.30                 | 1.21     | -1.19     | -1.29     | 5.44                    | 4.18     | -3.74        | 14.09     | 3.96      | 5.20 |
| 3      | 1.02                 | 0.93     |           | -0.28     | 5.20                    | 4.23     | -0.41        | 11.02     |           | 0.00 |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear (k )----- |       |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|----------------------|-------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        | Loc                  | Calc  | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup                 | -0.71 | 10.94 | 0.07 | MidS                    | -1.83 | 10.67 | 0.17 | RSup      | 0.10 | -0.09        |       |
| 1      | RLap                 | -0.88 | 10.94 | 0.08 | RLap                    | 4.52  | 6.64  | 0.68 | RLap      | 0.38 | 0.08         |       |
| 2      | LLap                 | 1.21  | 3.81  | 0.32 | LLap                    | 4.18  | 6.81  | 0.61 | LLap      | 0.59 | -0.77        |       |
| 3      | LLap                 | 0.93  | 3.81  | 0.24 | LLap                    | 4.23  | 6.66  | 0.63 | LLap      | 0.56 | 0.06         |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00  | 1.00 | 1.00  | -0.02 | 1.14         | 1.00 | 1.00 | 1.00 | 1.74 |
| 2      | 14.0       | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20  | 0.20 | 0.20  | 0.83  | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | -0.01 | 1.00 | -0.01 | 0.76  | 1.10         | 1.77 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                  | 7.3  | 1.0  | 1.0  | 5.7  | 0.81                | -0.02 | 1.00 | 1.00  | 1.00  | 1.08         | 2.03 | 1.00 | 1.00 | 1.12 |

LOAD ID 9 : Dead+Collateral+0.45Wind\_Pressure+0.75MIN\_SNOW

REACTIONS:

| Bay Id | -----Shear (k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|----------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup             | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.68                 |          |           | -0.84     | 0.00                    |          | -2.15        | 6.30         |           | 1.07      |
| 1      | 0.38                 |          | -1.03     | -1.14     | 1.07                    |          | 0.40         | 3.50         | 5.30      | 6.38      |
| 2      | 1.53                 | 1.42     | -1.40     | -1.51     | 6.38                    | 4.91     | -4.39        | 14.09        | 4.65      | 6.10      |
| 3      | 1.20                 | 1.09     |           | -0.32     | 6.10                    | 4.96     | -0.48        | 11.02        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear (k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|------|----------------------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        |      | Calc                 | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup | -0.84                | 10.94 | 0.08 | MidS                    | -2.15 | 10.67 | 0.20 | RSup      | 0.12 | -0.11        |       |
| 1      | RLap | -1.03                | 10.94 | 0.09 | RLap                    | 5.30  | 6.64  | 0.80 | RLap      | 0.45 | 0.09         |       |
| 2      | LLap | 1.42                 | 3.81  | 0.37 | LLap                    | 4.91  | 6.81  | 0.72 | LLap      | 0.70 | -0.90        |       |
| 3      | LLap | 1.09                 | 3.81  | 0.29 | LLap                    | 4.96  | 6.66  | 0.74 | LLap      | 0.66 | 0.07         |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00  | 1.00 | 1.00  | -0.02 | 1.14         | 1.00 | 1.00 | 1.00 | 1.74 |
| 2      | 14.0       | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20  | 0.20 | 0.20  | 0.83  | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | -0.01 | 1.00 | -0.01 | 0.76  | 1.10         | 1.77 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                  | 7.3  | 1.0  | 1.0  | 5.7  | 0.81                | -0.02 | 1.00 | 1.00  | 1.00  | 1.08         | 2.03 | 1.00 | 1.00 | 1.12 |

LOAD ID 10 : Dead+Collateral+Snow/2+PAT\_SL\_3

REACTIONS:

| Bay Id | -----Shear (k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|----------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup             | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.47                 |          |           | -0.65     | 0.00                    |          | -1.38        | 5.89         |           | 1.24      |
| 1      | 0.44                 |          | -0.59     | -0.67     | 1.24                    |          | 0.01         | 5.56         | 2.21      | 2.84      |
| 2      | 0.65                 | 0.61     | -0.59     | -0.63     | 2.84                    | 2.21     | -1.82        | 14.24        | 1.93      | 2.54      |
| 3      | 0.50                 | 0.46     |           | -0.14     | 2.54                    | 2.06     | -0.21        | 10.94        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear (k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|------|----------------------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        |      | Calc                 | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup | -0.65                | 10.94 | 0.06 | MidS                    | -1.38 | 10.67 | 0.13 | RSup      | 0.12 | -0.06        |       |
| 1      | RLap | -0.59                | 10.94 | 0.05 | RLap                    | 2.21  | 6.64  | 0.33 | RLap      | 0.19 | 0.03         |       |
| 2      | LLap | 0.61                 | 3.81  | 0.16 | LLap                    | 2.21  | 6.80  | 0.33 | LLap      | 0.31 | -0.37        |       |
| 3      | LLap | 0.46                 | 3.81  | 0.12 | LLap                    | 2.06  | 6.67  | 0.31 | LLap      | 0.27 | 0.03         |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor (ft)----- |  |  |  |  | -----Mom1/Mom2----- |  |  |  |  | -----Cb----- |  |  |  |  |
|-----|-------|----------------------|--|--|--|--|---------------------|--|--|--|--|--------------|--|--|--|--|
|-----|-------|----------------------|--|--|--|--|---------------------|--|--|--|--|--------------|--|--|--|--|

| Id | (ft) | LSup | LLap | MidS | RLap | RSup | LSup | LLap | MidS | RLap | RSup  | LSup | LLap | MidS | RLap | RSup |
|----|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1  | 14.0 | 11.7 | 1.0  | 1.0  | 1.0  | 2.3  | 1.00 | 1.00 | 1.00 | 1.00 | -0.01 | 1.14 | 1.00 | 1.00 | 1.00 | 1.76 |
| 2  | 14.0 | 13.0 | 13.0 | 13.0 | 13.0 | 1.0  | 0.56 | 0.56 | 0.56 | 0.56 | 0.78  | 2.30 | 2.30 | 2.30 | 2.30 | 1.10 |
| 3  | 28.0 | 1.0  | 4.3  | 1.0  | 3.9  | 1.0  | 0.78 | 0.00 | 1.00 | 0.00 | 0.76  | 1.10 | 1.76 | 1.00 | 1.76 | 1.11 |
| 4  | 14.0 | 1.0  | 6.9  | 1.0  | 1.0  | 6.1  | 0.81 | 0.00 | 1.00 | 1.00 | 1.00  | 1.08 | 1.96 | 1.00 | 1.00 | 1.14 |

LOAD ID 11 : Dead+Collateral+Snow/2+PAT\_SL\_4

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.30                |          |           | -0.34     | 0.00                    |          | -0.97        | 6.50         |           | 0.32      |
| 1      | 0.23                |          | -0.80     | -0.88     | 0.32                    |          | -0.01        | 2.91         | 4.04      | 4.88      |
| 2      | 1.14                | 1.06     | -1.01     | -1.09     | 4.88                    | 3.78     | -3.30        | 14.34        | 3.07      | 4.12      |
| 3      | 0.62                | 0.57     |           | -0.03     | 4.12                    | 3.53     | -0.01        | 13.40        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|------|---------------------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        |      | Calc                | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup | -0.34               | 10.94 | 0.03 | MidS                    | -0.97 | 10.67 | 0.09 | RSup      | 0.04 | -0.05        |       |
| 1      | RLap | -0.80               | 10.94 | 0.07 | RLap                    | 4.04  | 9.70  | 0.42 | RLap      | 0.34 | 0.06         |       |
| 2      | LLap | 1.06                | 3.81  | 0.28 | LLap                    | 3.78  | 6.80  | 0.56 | LLap      | 0.53 | -0.69        |       |
| 3      | LLap | 0.57                | 3.81  | 0.15 | LLap                    | 3.53  | 5.79  | 0.61 | LLap      | 0.45 | 0.09         |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |      | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|-------|------|-------|------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 13.0                 | 1.0  | 1.0  | 1.0  | 1.0  | 1.00                | 1.00  | 1.00 | 1.00  | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.70 |
| 2      | 14.0       | 2.9                  | 1.0  | 1.0  | 9.5  | 1.0  | -0.05               | 1.00  | 1.00 | 0.00  | 0.83 | 2.30         | 1.00 | 1.00 | 2.23 | 1.08 |
| 3      | 28.0       | 1.0                  | 4.3  | 1.0  | 3.6  | 1.0  | 0.77                | -0.01 | 1.00 | -0.02 | 0.75 | 1.10         | 1.77 | 1.00 | 1.78 | 1.12 |
| 4      | 14.0       | 1.0                  | 12.4 | 1.0  | 12.4 | 0.6  | 0.86                | 0.00  | 1.00 | 0.00  | 1.00 | 1.06         | 2.30 | 1.00 | 2.30 | 1.30 |

LOAD ID 12 : Dead+Collateral+Snow/2+PAT\_SL\_5

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.32                |          |           | -0.32     | 0.00                    |          | -1.13        | 7.01         |           | -0.01     |
| 1      | 0.00                |          | -0.60     | -0.65     | -0.01                   |          | -0.01        | 0.00         | 3.92      | 4.54      |
| 2      | 1.11                | 1.03     | -1.03     | -1.11     | 4.54                    | 3.47     | -3.26        | 14.01        | 3.45      | 4.52      |
| 3      | 0.88                | 0.80     |           | -0.23     | 4.52                    | 3.68     | -0.34        | 11.06        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|------|---------------------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        |      | Calc                | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | LSup | 0.32                | 10.94 | 0.03 | MidS                    | -1.13 | 10.67 | 0.11 | LSup      | 0.00 | -0.06        |       |
| 1      | RLap | -0.60               | 10.94 | 0.05 | RLap                    | 3.92  | 6.64  | 0.59 | RLap      | 0.33 | 0.08         |       |
| 2      | LLap | 1.03                | 3.81  | 0.27 | MidS                    | -3.26 | 6.31  | 0.52 | LLap      | 0.50 | -0.67        |       |
| 3      | LLap | 0.80                | 3.81  | 0.21 | LLap                    | 3.68  | 6.66  | 0.55 | LLap      | 0.49 | 0.05         |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 14.0                 | 1.0  | 1.0  | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.00 |

|   |      |     |      |     |      |     |      |       |      |       |      |      |      |      |      |      |
|---|------|-----|------|-----|------|-----|------|-------|------|-------|------|------|------|------|------|------|
| 2 | 14.0 | 1.0 | 13.0 | 1.0 | 13.0 | 1.0 | 1.00 | 0.00  | 1.00 | 0.00  | 0.86 | 1.00 | 2.30 | 1.00 | 2.30 | 1.06 |
| 3 | 28.0 | 1.0 | 4.1  | 1.0 | 4.1  | 1.0 | 0.76 | -0.03 | 1.00 | -0.03 | 0.76 | 1.11 | 1.79 | 1.00 | 1.79 | 1.11 |
| 4 | 14.0 | 1.0 | 7.4  | 1.0 | 1.0  | 5.6 | 0.81 | -0.02 | 1.00 | 1.00  | 1.00 | 1.08 | 2.03 | 1.00 | 1.00 | 1.12 |

LOAD ID 13 : Dead+Collateral+Snow/2+PAT\_SL\_1

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.49                |          |           | -0.62     | 0.00                    |          | -1.53        | 6.21         |           | 0.88      |
| 1      | 0.20                |          | -0.40     | -0.45     | 0.88                    |          | 0.46         | 4.27         | 2.21      | 2.64      |
| 2      | 0.64                | 0.60     | -0.60     | -0.64     | 2.64                    | 2.01     | -1.88        | 14.02        | 1.99      | 2.61      |
| 3      | 0.51                | 0.46     |           | -0.14     | 2.61                    | 2.12     | -0.20        | 11.05        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|---------------------|-------|------|-------------------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc                | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.62               | 10.94 | 0.06 | MidS                    | -1.53 | 10.67 | 0.14 | RSup      | 0.09 | -0.07       |       |
| 1      | RLap | -0.40               | 10.94 | 0.04 | RLap                    | 2.21  | 6.27  | 0.35 | RLap      | 0.19 | 0.05        |       |
| 2      | LLap | 0.60                | 3.81  | 0.16 | MidS                    | -1.88 | 6.31  | 0.30 | LLap      | 0.29 | -0.39       |       |
| 3      | LLap | 0.46                | 3.81  | 0.12 | LLap                    | 2.12  | 6.66  | 0.32 | LLap      | 0.28 | 0.03        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |       | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|------|------|------|-------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.4                 | 1.0  | 1.0  | 1.0  | 1.6  | 1.00                | 1.00 | 1.00 | 1.00 | -0.02 | 1.14         | 1.00 | 1.00 | 1.00 | 1.74 |
| 2      | 14.0       | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.40                | 0.40 | 0.40 | 0.40 | 0.84  | 2.17         | 2.17 | 2.17 | 2.17 | 1.07 |
| 3      | 28.0       | 1.0                  | 4.0  | 1.0  | 3.9  | 1.0  | 0.76                | 0.00 | 1.00 | 0.00 | 0.76  | 1.11         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                  | 7.1  | 1.0  | 1.0  | 5.9  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00  | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 14 : Dead+Collateral+Snow/2+PAT\_SL\_2

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.29                |          |           | -0.36     | 0.00                    |          | -0.90        | 6.25         |           | 0.48      |
| 1      | 0.17                |          | -0.43     | -0.47     | 0.48                    |          | 0.16         | 3.75         | 2.13      | 2.57      |
| 2      | 0.63                | 0.59     | -0.61     | -0.66     | 2.57                    | 1.97     | -1.76        | 13.74        | 2.28      | 2.92      |
| 3      | 0.77                | 0.69     |           | -0.35     | 2.92                    | 2.19     | -0.76        | 9.62         |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|---------------------|-------|------|-------------------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc                | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.36               | 10.94 | 0.03 | MidS                    | -0.90 | 10.67 | 0.08 | RSup      | 0.05 | -0.04       |       |
| 1      | RLap | -0.43               | 10.94 | 0.04 | RLap                    | 2.13  | 6.64  | 0.32 | RLap      | 0.18 | 0.04        |       |
| 2      | RLap | -0.61               | 3.81  | 0.16 | RLap                    | 2.28  | 6.78  | 0.34 | RLap      | 0.32 | -0.35       |       |
| 3      | LLap | 0.69                | 3.81  | 0.18 | LLap                    | 2.19  | 6.80  | 0.32 | LLap      | 0.32 | -0.01       |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|-------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.5                 | 1.0  | 1.0  | 1.0  | 1.5  | 1.00                | 1.00  | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.23                | 0.23  | 0.23 | 0.23 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.08 |
| 3      | 28.0       | 1.0                  | 4.0  | 1.0  | 4.5  | 1.0  | 0.76                | 0.00  | 1.00 | 0.00 | 0.78 | 1.11         | 1.76 | 1.00 | 1.77 | 1.10 |
| 4      | 14.0       | 1.0                  | 4.3  | 1.0  | 1.0  | 8.7  | 0.75                | -0.02 | 1.00 | 1.00 | 1.00 | 1.11         | 1.87 | 1.00 | 1.00 | 1.13 |



LOAD ID 15 : Dead+Collateral+Snow-PAT\_SL\_1

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.30                |          |           | -0.35     | 0.00                    |          | -0.95        | 6.45         |           | 0.35      |
| 1      | 0.24                |          | -0.79     | -0.87     | 0.35                    |          | -0.02        | 3.05         | 3.91      | 4.74      |
| 2      | 1.12                | 1.04     | -1.02     | -1.10     | 4.74                    | 3.66     | -3.19        | 14.14        | 3.38      | 4.44      |
| 3      | 0.87                | 0.79     |           | -0.24     | 4.44                    | 3.61     | -0.36        | 11.00        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|---------------------|-------|------|-------------------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc                | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.35               | 10.94 | 0.03 | MidS                    | -0.95 | 10.67 | 0.09 | RSup      | 0.04 | -0.05       |       |
| 1      | RLap | -0.79               | 10.94 | 0.07 | RLap                    | 3.91  | 9.47  | 0.41 | RLap      | 0.33 | 0.06        |       |
| 2      | LLap | 1.04                | 3.81  | 0.27 | LLap                    | 3.66  | 6.81  | 0.54 | LLap      | 0.52 | -0.65       |       |
| 3      | LLap | 0.79                | 3.81  | 0.21 | LLap                    | 3.61  | 6.67  | 0.54 | LLap      | 0.48 | 0.05        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |       | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|------|------|------|-------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.7                | 1.0  | 1.0  | 1.0  | 1.3  | 1.00                | 1.00 | 1.00 | 1.00 | -0.19 | 1.13         | 1.00 | 1.00 | 1.00 | 1.98 |
| 2      | 14.0       | 3.1                 | 1.0  | 1.0  | 9.9  | 1.0  | -0.05               | 1.00 | 1.00 | 0.00 | 0.83  | 2.30         | 1.00 | 1.00 | 2.30 | 1.08 |
| 3      | 28.0       | 1.0                 | 4.2  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76  | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                 | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00  | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 16 : Dead+Collateral+Snow-PAT\_SL\_2

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.50                |          |           | -0.61     | 0.00                    |          | -1.59        | 6.33         |           | 0.75      |
| 1      | 0.27                |          | -0.77     | -0.85     | 0.75                    |          | 0.30         | 3.35         | 4.00      | 4.81      |
| 2      | 1.14                | 1.06     | -1.01     | -1.09     | 4.81                    | 3.71     | -3.32        | 14.30        | 3.09      | 4.14      |
| 3      | 0.62                | 0.57     |           | -0.03     | 4.14                    | 3.54     | -0.01        | 13.44        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|---------------------|-------|------|-------------------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc                | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.61               | 10.94 | 0.06 | MidS                    | -1.59 | 10.67 | 0.15 | RSup      | 0.08 | -0.08       |       |
| 1      | RLap | -0.77               | 10.94 | 0.07 | RLap                    | 4.00  | 6.64  | 0.60 | RLap      | 0.34 | 0.07        |       |
| 2      | LLap | 1.06                | 3.81  | 0.28 | LLap                    | 3.71  | 6.81  | 0.54 | LLap      | 0.52 | -0.69       |       |
| 3      | LLap | 0.57                | 3.81  | 0.15 | LLap                    | 3.54  | 5.78  | 0.61 | LLap      | 0.45 | 0.10        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.7                | 1.0  | 1.0  | 1.0  | 1.3  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.71 |
| 2      | 14.0       | 13.0                | 13.0 | 13.0 | 13.0 | 1.0  | 0.19                | 0.19 | 0.19 | 0.19 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                 | 4.2  | 1.0  | 3.6  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.75 | 1.10         | 1.76 | 1.00 | 1.75 | 1.11 |
| 4      | 14.0       | 1.0                 | 12.4 | 1.0  | 12.4 | 0.6  | 0.86                | 0.00 | 1.00 | 0.00 | 1.00 | 1.06         | 2.30 | 1.00 | 2.30 | 1.27 |

LOAD ID 17 : Dead+Collateral+UNB\_SL

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |           |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|-----------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Right Loc | Right Lap | Right Sup |
| 1      | 0.50                |          |           | -0.61     | 0.00                   |          | -1.58        | 6.30      |           | 0.78      |
| 1      | 0.28                |          | -0.76     | -0.84     | 0.78                   |          | 0.30         | 3.50      | 3.89      | 4.69      |
| 2      | 1.12                | 1.04     | -1.03     | -1.11     | 4.69                   | 3.60     | -3.22        | 14.09     | 3.41      | 4.48      |
| 3      | 0.88                | 0.80     |           | -0.24     | 4.48                   | 3.64     | -0.35        | 11.02     |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment(f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|---------------------|-------|------|------------------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc                | Limit | UC   | Loc                    | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.61               | 10.94 | 0.06 | MidS                   | -1.58 | 10.67 | 0.15 | RSup      | 0.09 | -0.08       |       |
| 1      | RLap | -0.76               | 10.94 | 0.07 | RLap                   | 3.89  | 6.64  | 0.59 | RLap      | 0.33 | 0.07        |       |
| 2      | LLap | 1.04                | 3.81  | 0.27 | LLap                   | 3.60  | 6.81  | 0.53 | LLap      | 0.51 | -0.66       |       |
| 3      | LLap | 0.80                | 3.81  | 0.21 | LLap                   | 3.64  | 6.66  | 0.55 | LLap      | 0.48 | 0.05        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00  | 1.00 | 1.00  | -0.02 | 1.14         | 1.00 | 1.00 | 1.00 | 1.74 |
| 2      | 14.0       | 13.0                | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20  | 0.20 | 0.20  | 0.83  | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                 | 4.2  | 1.0  | 4.0  | 1.0  | 0.77                | -0.03 | 1.00 | -0.03 | 0.76  | 1.10         | 1.80 | 1.00 | 1.79 | 1.11 |
| 4      | 14.0       | 1.0                 | 7.3  | 1.0  | 1.0  | 5.7  | 0.81                | -0.02 | 1.00 | 1.00  | 1.00  | 1.08         | 2.03 | 1.00 | 1.00 | 1.12 |

DEFLECTION:

LOAD ID 18 : Dead+Collateral+Live

| Bay Id | DEFLECTION(in) |       |       |
|--------|----------------|-------|-------|
|        | Calc           | Limit | Ratio |
| 1      | -0.11          | 1.87  | 0.06  |
| 1      | 0.10           | 1.87  | 0.05  |
| 2      | -0.93          | 1.87  | 0.50  |
| 3      | 0.07           | 0.93  | 0.08  |

LOAD ID 19 : Dead+Collateral+Snow

| Bay Id | DEFLECTION(in) |       |       |
|--------|----------------|-------|-------|
|        | Calc           | Limit | Ratio |
| 1      | -0.08          | 1.87  | 0.04  |
| 1      | 0.07           | 1.87  | 0.04  |
| 2      | -0.66          | 1.87  | 0.35  |
| 3      | 0.05           | 0.93  | 0.05  |

LOAD ID 20 : Dead+Collateral+Snow+Snow\_Drift

| Bay Id | DEFLECTION(in) |       |       |
|--------|----------------|-------|-------|
|        | Calc           | Limit | Ratio |
| 1      | -0.08          | 1.87  | 0.04  |
| 1      | 0.07           | 1.87  | 0.04  |
| 2      | -0.66          | 1.87  | 0.35  |
| 3      | 0.05           | 0.93  | 0.05  |

LOAD ID 21 : Dead+Collateral+0.75Live+0.41Wind\_Pressure

| Bay Id | DEFLECTION(in) |
|--------|----------------|
|--------|----------------|

| Id | Calc  | Limit | Ratio |
|----|-------|-------|-------|
| 1  | -0.12 | 2.24  | 0.05  |
| 1  | 0.10  | 2.24  | 0.05  |
| 2  | -0.99 | 2.24  | 0.44  |
| 3  | 0.08  | 1.12  | 0.07  |

LOAD ID 22 : Dead+Collateral+0.75Snow+0.41Wind\_Pressure

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | -0.09          | 2.24  | 0.04  |
| 1      | 0.08           | 2.24  | 0.04  |
| 2      | -0.79          | 2.24  | 0.35  |
| 3      | 0.06           | 1.12  | 0.05  |

LOAD ID 23 : Dead+Collateral+0.75Snow+0.41Wind\_Pressure+0.75Snow\_Drift

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | -0.09          | 2.24  | 0.04  |
| 1      | 0.08           | 2.24  | 0.04  |
| 2      | -0.79          | 2.24  | 0.35  |
| 3      | 0.06           | 1.12  | 0.05  |

LOAD ID 24 : 0.6Dead+0.54Wind\_Suction

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | 0.09           | 2.24  | 0.04  |
| 1      | -0.08          | 2.24  | 0.03  |
| 2      | 0.72           | 2.24  | 0.32  |
| 3      | -0.05          | 1.12  | 0.05  |

LOAD ID 25 : Dead+Collateral+MIN\_SNOW

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | -0.09          | 1.87  | 0.05  |
| 1      | 0.08           | 1.87  | 0.04  |
| 2      | -0.77          | 1.87  | 0.41  |
| 3      | 0.06           | 0.93  | 0.06  |

LOAD ID 26 : Dead+Collateral+0.41Wind\_Pressure+0.75MIN\_SNOW

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | -0.10          | 2.24  | 0.05  |
| 1      | 0.09           | 2.24  | 0.04  |
| 2      | -0.87          | 2.24  | 0.39  |
| 3      | 0.07           | 1.12  | 0.06  |

LOAD ID 27 : Dead+Collateral+Snow/2+PAT\_SL\_3

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | -0.06          | 1.87  | 0.03  |
| 1      | 0.03           | 1.87  | 0.01  |
| 2      | -0.37          | 1.87  | 0.20  |

3 0.03 0.93 0.03

LOAD ID 28 : Dead+Collateral+Snow/2+PAT\_SL\_4

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.05 1.87 0.03  
1 0.06 1.87 0.03  
2 -0.69 1.87 0.37  
3 0.09 0.93 0.10

LOAD ID 29 : Dead+Collateral+Snow/2+PAT\_SL\_5

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.06 1.87 0.03  
1 0.08 1.87 0.04  
2 -0.67 1.87 0.36  
3 0.05 0.93 0.06

LOAD ID 30 : Dead+Collateral+Snow/2+PAT\_SL\_1

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.07 1.87 0.04  
1 0.05 1.87 0.03  
2 -0.39 1.87 0.21  
3 0.03 0.93 0.03

LOAD ID 31 : Dead+Collateral+Snow/2+PAT\_SL\_2

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.04 1.87 0.02  
1 0.04 1.87 0.02  
2 -0.35 1.87 0.19  
3 -0.01 0.93 0.02

LOAD ID 32 : Dead+Collateral+Snow-PAT\_SL\_1

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.05 1.87 0.03  
1 0.06 1.87 0.03  
2 -0.65 1.87 0.35  
3 0.05 0.93 0.05

LOAD ID 33 : Dead+Collateral+Snow-PAT\_SL\_2

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.08 1.87 0.04  
1 0.07 1.87 0.04  
2 -0.69 1.87 0.37  
3 0.10 0.93 0.10

LOAD ID 34 : Dead+Collateral+UNB\_SL

-----  
Bay DEFLECTION(in)

| Id | Calc  | Limit | Ratio |
|----|-------|-------|-------|
| 1  | -0.08 | 1.87  | 0.04  |
| 1  | 0.07  | 1.87  | 0.04  |
| 2  | -0.66 | 1.87  | 0.35  |
| 3  | 0.05  | 0.93  | 0.06  |

=====  
11 12 Purlin Layout (Surface= 3) 2/14/23 7:44am  
=====

SURFACE LAYOUT:

| Surface Id | Length | No. Row |
|------------|--------|---------|
| 3          | 35.030 | 7       |

PURLIN LOCATION:

| Purlin Id | Surf Offset | Space | Load Width | Dead Load | Show Report | Max_Load Id | UC   | Report |
|-----------|-------------|-------|------------|-----------|-------------|-------------|------|--------|
| 2         | 5.004       | 5.004 | 5.004      | 0.99      |             | 4           | 0.91 | Moment |
| 3         | 10.009      | 5.004 | 5.004      | 0.99      |             | 4           | 0.91 | Moment |
| 4         | 15.013      | 5.004 | 5.004      | 0.99      |             | 4           | 0.91 | Moment |
| 5         | 20.017      | 5.004 | 5.004      | 0.99      |             | 4           | 0.91 | Moment |
| 6         | 25.022      | 5.004 | 5.004      | 0.99      |             | 4           | 0.91 | Moment |
| 7         | 30.026      | 5.004 | 5.004      | 0.99      | Y           | 7           | 0.95 | Moment |
|           | 35.030      | 5.004 |            |           |             |             |      |        |

-----  
Average= 1.16

LAYOUT:

| Bay Id      | Part     | Bay Width | ---Lap(ft)-- |       | No. Brace | Unit Weight | Total Weight |
|-------------|----------|-----------|--------------|-------|-----------|-------------|--------------|
|             |          |           | Left         | Right |           |             |              |
| 1           | 10X25Z12 | 28.00     |              | 1.00  | 0         | 165.0       | 1155.1       |
| 2           | 10X25Z14 | 28.00     | 1.00         | 1.00  | 0         | 122.1       | 854.7        |
| 3           | 10X25Z14 | 14.00     | 1.00         |       | 0         | 61.1        | 427.4        |
| Total (lb)= |          |           |              |       |           | 348.2       | 2437.1       |

LOAD COMBINATIONS:

- 4 - Dead+Collateral+0.75Live+0.45Wind\_Pressure
- 7 - 0.6Dead+0.6Wind\_Suction

ROOF PURLIN

Surface Id = 3  
 Purlin Id = 7  
 Offset = 30.03

PURLIN LAYOUT:

| Bay Id | Part     | Design Length (ft) | ---Lap(ft)--- |       | Load Width | No. Brace | Unit Weight | Available Reduction |      |
|--------|----------|--------------------|---------------|-------|------------|-----------|-------------|---------------------|------|
|        |          |                    | Left          | Right |            |           |             | Out                 | In   |
| 1      | 10X25Z12 | 14.00              |               |       | 5.00       | 0         | 79.7        | 0.00                | 0.70 |
| 1      | 10X25Z12 | 14.00              |               | 1.00  | 5.00       | 0         | 85.3        | 0.00                | 0.50 |
| 2      | 10X25Z14 | 28.00              | 1.00          | 1.00  | 5.00       | 0         | 122.1       | 0.00                | 0.50 |
| 3      | 10X25Z14 | 14.00              | 1.00          |       | 5.00       | 0         | 61.1        | 0.00                | 0.50 |

LOAD ID 1 : Dead+Collateral+Live

REACTIONS:

| Bay Id | -----Shear(k)----- |          |           |           | -----Moment(f-k)----- |          |              |              |           |           |
|--------|--------------------|----------|-----------|-----------|-----------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup           | Left Lap | Right Lap | Right Sup | Left Sup              | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.71               |          |           | -0.87     | 0.00                  |          | -2.23        | 6.30         |           | 1.11      |
| 1      | 0.39               |          | -1.07     | -1.18     | 1.11                  |          | 0.42         | 3.50         | 5.49      | 6.62      |
| 2      | 1.58               | 1.47     | -1.45     | -1.56     | 6.62                  | 5.09     | -4.55        | 14.09        | 4.81      | 6.32      |
| 3      | 1.24               | 1.13     |           | -0.34     | 6.32                  | 5.14     | -0.50        | 11.02        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear(k)----- |       |       |      | -----Moment(f-k)----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|--------------------|-------|-------|------|-----------------------|-------|-------|------|-----------|------|-------------|-------|
|        | Loc                | Calc  | Limit | UC   | Loc                   | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup               | -0.87 | 10.94 | 0.08 | MidS                  | -2.23 | 10.67 | 0.21 | RSup      | 0.12 | -0.11       |       |
| 1      | RLap               | -1.07 | 10.94 | 0.10 | RLap                  | 5.49  | 6.64  | 0.83 | RLap      | 0.46 | 0.10        |       |
| 2      | LLap               | 1.47  | 3.81  | 0.39 | LLap                  | 5.09  | 6.81  | 0.75 | LLap      | 0.72 | -0.93       |       |
| 3      | LLap               | 1.13  | 3.81  | 0.30 | LLap                  | 5.14  | 6.66  | 0.77 | LLap      | 0.68 | 0.07        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0                | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20 | 0.20 | 0.20 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                 | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76 | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                 | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00 | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 2 : Dead+Collateral+Snow

REACTIONS:

| Bay Id | -----Shear(k)----- |          |           |           | -----Moment(f-k)----- |          |              |              |           |           |
|--------|--------------------|----------|-----------|-----------|-----------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup           | Left Lap | Right Lap | Right Sup | Left Sup              | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.50               |          |           | -0.61     | 0.00                  |          | -1.58        | 6.30         |           | 0.78      |
| 1      | 0.28               |          | -0.75     | -0.83     | 0.78                  |          | 0.29         | 3.50         | 3.88      | 4.68      |
| 2      | 1.12               | 1.04     | -1.03     | -1.10     | 4.68                  | 3.60     | -3.21        | 14.09        | 3.40      | 4.47      |
| 3      | 0.88               | 0.80     |           | -0.24     | 4.47                  | 3.63     | -0.35        | 11.02        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | Shear(k ) |       |      | Moment(f-k ) |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|-----------|-------|------|--------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc      | Limit | UC   | Loc          | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.61     | 10.94 | 0.06 | MidS         | -1.58 | 10.67 | 0.15 | RSup      | 0.09 | -0.08       |       |
| 1      | RLap | -0.75     | 10.94 | 0.07 | RLap         | 3.88  | 6.64  | 0.58 | RLap      | 0.33 | 0.07        |       |
| 2      | LLap | 1.04      | 3.81  | 0.27 | LLap         | 3.60  | 6.81  | 0.53 | LLap      | 0.51 | -0.66       |       |
| 3      | LLap | 0.80      | 3.81  | 0.21 | LLap         | 3.63  | 6.66  | 0.54 | LLap      | 0.48 | 0.05        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | Minor(ft) |      |      |      |      | Mom1/Mom2 |      |      |      |      | Cb   |      |      |      |      |
|--------|------------|-----------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|
|        |            | LSup      | LLap | MidS | RLap | RSup | LSup      | LLap | MidS | RLap | RSup | LSup | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6      | 1.0  | 1.0  | 1.0  | 1.4  | 1.00      | 1.00 | 1.00 | 1.00 | 0.00 | 1.14 | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0      | 13.0 | 13.0 | 13.0 | 1.0  | 0.20      | 0.20 | 0.20 | 0.20 | 0.83 | 2.30 | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0       | 4.1  | 1.0  | 3.9  | 1.0  | 0.77      | 0.00 | 1.00 | 0.00 | 0.76 | 1.10 | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0       | 7.0  | 1.0  | 1.0  | 6.0  | 0.81      | 0.00 | 1.00 | 1.00 | 1.00 | 1.08 | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 3 : Dead+Collateral+Snow+Snow\_Drift

REACTIONS:

| Bay Id | Shear(k ) |          |           |           | Moment(f-k ) |          |              |           |           |  |
|--------|-----------|----------|-----------|-----------|--------------|----------|--------------|-----------|-----------|--|
|        | Left Sup  | Left Lap | Right Lap | Right Sup | Left Sup     | Left Lap | Mid-Span Mom | Right Lap | Right Sup |  |
| 1      | 0.50      |          |           | -0.61     | 0.00         |          | -1.58        | 6.30      | 0.78      |  |
| 1      | 0.28      |          | -0.75     | -0.83     | 0.78         |          | 0.29         | 3.50      | 3.88      |  |
| 2      | 1.12      | 1.04     | -1.03     | -1.10     | 4.68         | 3.60     | -3.21        | 14.09     | 3.40      |  |
| 3      | 0.88      | 0.80     |           | -0.24     | 4.47         | 3.63     | -0.35        | 11.02     | 0.00      |  |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | Shear(k ) |       |      | Moment(f-k ) |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|-----------|-------|------|--------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc      | Limit | UC   | Loc          | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.61     | 10.94 | 0.06 | MidS         | -1.58 | 10.67 | 0.15 | RSup      | 0.09 | -0.08       |       |
| 1      | RLap | -0.75     | 10.94 | 0.07 | RLap         | 3.88  | 6.64  | 0.58 | RLap      | 0.33 | 0.07        |       |
| 2      | LLap | 1.04      | 3.81  | 0.27 | LLap         | 3.60  | 6.81  | 0.53 | LLap      | 0.51 | -0.66       |       |
| 3      | LLap | 0.80      | 3.81  | 0.21 | LLap         | 3.63  | 6.66  | 0.54 | LLap      | 0.48 | 0.05        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | Minor(ft) |      |      |      |      | Mom1/Mom2 |      |      |      |      | Cb   |      |      |      |      |
|--------|------------|-----------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|
|        |            | LSup      | LLap | MidS | RLap | RSup | LSup      | LLap | MidS | RLap | RSup | LSup | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6      | 1.0  | 1.0  | 1.0  | 1.4  | 1.00      | 1.00 | 1.00 | 1.00 | 0.00 | 1.14 | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0      | 13.0 | 13.0 | 13.0 | 1.0  | 0.20      | 0.20 | 0.20 | 0.20 | 0.83 | 2.30 | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0       | 4.1  | 1.0  | 3.9  | 1.0  | 0.77      | 0.00 | 1.00 | 0.00 | 0.76 | 1.10 | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0       | 7.0  | 1.0  | 1.0  | 6.0  | 0.81      | 0.00 | 1.00 | 1.00 | 1.00 | 1.08 | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 4 : Dead+Collateral+0.75Live+0.45Wind\_Pressure

REACTIONS:

| Bay Id | Shear(k ) |          |           |           | Moment(f-k ) |          |              |           |           |  |
|--------|-----------|----------|-----------|-----------|--------------|----------|--------------|-----------|-----------|--|
|        | Left Sup  | Left Lap | Right Lap | Right Sup | Left Sup     | Left Lap | Mid-Span Mom | Right Lap | Right Sup |  |
| 1      | 0.78      |          |           | -0.95     | 0.00         |          | -2.45        | 6.30      | 1.21      |  |
| 1      | 0.43      |          | -1.17     | -1.30     | 1.21         |          | 0.46         | 3.50      | 6.03      |  |
| 2      | 1.74      | 1.62     | -1.59     | -1.72     | 7.27         | 5.59     | -5.00        | 14.09     | 5.29      |  |
| 3      | 1.36      | 1.24     |           | -0.37     | 6.94         | 5.65     | -0.55        | 11.02     | 0.00      |  |

STRENGTH/DEFLECTION:

| Bay Id | Loc | Shear(k ) |       |    | Moment(f-k ) |      |       |    | Mom+Shear |    | Deflect(in) |       |
|--------|-----|-----------|-------|----|--------------|------|-------|----|-----------|----|-------------|-------|
|        |     | Calc      | Limit | UC | Loc          | Calc | Limit | UC | Loc       | UC | Calc        | Limit |

| Id | Loc  | Calc  | Limit | UC   | Loc  | Calc  | Limit | UC   | Loc  | UC   | Calc  | Limit |
|----|------|-------|-------|------|------|-------|-------|------|------|------|-------|-------|
| 1  | RSup | -0.95 | 10.94 | 0.09 | MidS | -2.45 | 10.67 | 0.23 | RSup | 0.13 | -0.12 |       |
| 1  | RLap | -1.17 | 10.94 | 0.11 | RLap | 6.03  | 6.64  | 0.91 | RLap | 0.51 | 0.11  |       |
| 2  | LLap | 1.62  | 3.81  | 0.42 | LLap | 5.59  | 6.81  | 0.82 | LLap | 0.79 | -1.02 |       |
| 3  | LLap | 1.24  | 3.81  | 0.32 | LLap | 5.65  | 6.66  | 0.85 | LLap | 0.75 | 0.08  |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|-----|-------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.72 |
| 2   | 14.0  | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20 | 0.20 | 0.20 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3   | 28.0  | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76 | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4   | 14.0  | 1.0                  | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00 | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 5 : Dead+Collateral+0.75Snow+0.45Wind\_Pressure

REACTIONS:

| Bay | -----Shear (k )----- |      |       |       | -----Moment (f-k )----- |      |          |       |       |      |
|-----|----------------------|------|-------|-------|-------------------------|------|----------|-------|-------|------|
| Id  | Left                 | Left | Right | Right | Left                    | Left | Mid-Span | Right | Right |      |
|     | Sup                  | Lap  | Lap   | Sup   | Sup                     | Lap  | Mom      | Loc   | Lap   | Sup  |
| 1   | 0.62                 |      |       | -0.76 | 0.00                    |      | -1.96    | 6.30  |       | 0.97 |
| 1   | 0.35                 |      | -0.94 | -1.04 | 0.97                    |      | 0.37     | 3.50  | 4.82  | 5.81 |
| 2   | 1.39                 | 1.29 | -1.27 | -1.37 | 5.81                    | 4.47 | -3.99    | 14.09 | 4.23  | 5.55 |
| 3   | 1.09                 | 0.99 |       | -0.29 | 5.55                    | 4.51 | -0.44    | 11.02 |       | 0.00 |

STRENGTH/DEFLECTION:

| Bay | -----Shear (k )----- |       |       | -----Moment (f-k )----- |      |       |       | Mom+Shear | Deflect (in) |      |
|-----|----------------------|-------|-------|-------------------------|------|-------|-------|-----------|--------------|------|
| Id  | Loc                  | Calc  | Limit | UC                      | Loc  | Calc  | Limit | UC        | Loc          | UC   |
| 1   | RSup                 | -0.76 | 10.94 | 0.07                    | MidS | -1.96 | 10.67 | 0.18      | RSup         | 0.11 |
| 1   | RLap                 | -0.94 | 10.94 | 0.09                    | RLap | 4.82  | 6.64  | 0.73      | RLap         | 0.41 |
| 2   | LLap                 | 1.29  | 3.81  | 0.34                    | LLap | 4.47  | 6.81  | 0.66      | LLap         | 0.63 |
| 3   | LLap                 | 0.99  | 3.81  | 0.26                    | LLap | 4.51  | 6.66  | 0.68      | LLap         | 0.60 |

UNBRACED LENGTH:

| Bay | Major | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|-----|-------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.72 |
| 2   | 14.0  | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20 | 0.20 | 0.20 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3   | 28.0  | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76 | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4   | 14.0  | 1.0                  | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00 | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 6 : Dead+Collateral+0.75Snow+0.45Wind\_Pressure+0.75Snow\_Drift

REACTIONS:

| Bay | -----Shear (k )----- |      |       |       | -----Moment (f-k )----- |      |          |       |       |      |
|-----|----------------------|------|-------|-------|-------------------------|------|----------|-------|-------|------|
| Id  | Left                 | Left | Right | Right | Left                    | Left | Mid-Span | Right | Right |      |
|     | Sup                  | Lap  | Lap   | Sup   | Sup                     | Lap  | Mom      | Loc   | Lap   | Sup  |
| 1   | 0.62                 |      |       | -0.76 | 0.00                    |      | -1.96    | 6.30  |       | 0.97 |
| 1   | 0.35                 |      | -0.94 | -1.04 | 0.97                    |      | 0.37     | 3.50  | 4.82  | 5.81 |
| 2   | 1.39                 | 1.29 | -1.27 | -1.37 | 5.81                    | 4.47 | -3.99    | 14.09 | 4.23  | 5.55 |
| 3   | 1.09                 | 0.99 |       | -0.29 | 5.55                    | 4.51 | -0.44    | 11.02 |       | 0.00 |

STRENGTH/DEFLECTION:

| Bay | -----Shear (k )----- |       |       | -----Moment (f-k )----- |      |       |       | Mom+Shear | Deflect (in) |      |
|-----|----------------------|-------|-------|-------------------------|------|-------|-------|-----------|--------------|------|
| Id  | Loc                  | Calc  | Limit | UC                      | Loc  | Calc  | Limit | UC        | Loc          | UC   |
| 1   | RSup                 | -0.76 | 10.94 | 0.07                    | MidS | -1.96 | 10.67 | 0.18      | RSup         | 0.11 |



|   |      |       |       |      |      |      |      |      |      |      |       |
|---|------|-------|-------|------|------|------|------|------|------|------|-------|
| 1 | RLap | -0.94 | 10.94 | 0.09 | RLap | 4.82 | 6.64 | 0.73 | RLap | 0.41 | 0.09  |
| 2 | LLap | 1.29  | 3.81  | 0.34 | LLap | 4.47 | 6.81 | 0.66 | LLap | 0.63 | -0.82 |
| 3 | LLap | 0.99  | 3.81  | 0.26 | LLap | 4.51 | 6.66 | 0.68 | LLap | 0.60 | 0.06  |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20 | 0.20 | 0.20 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76 | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                  | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00 | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 7 : 0.6Dead+0.6Wind\_Suction

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |           |           |       |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|-----------|-----------|-------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Right Lap | Right Sup |       |
| 1      | -0.65               |          |           | 0.76      | 0.00                    |          | 1.98         | 6.45      |           | -0.99 |
| 1      | -0.35               |          | 0.93      | 1.02      | -0.99                   |          | -0.38        | 3.53      | -4.76     | -5.74 |
| 2      | -1.38               | -1.28    | 1.26      | 1.36      | -5.74                   | -4.41    | 3.95         | 14.08     | -4.21     | -5.52 |
| 3      | -1.09               | -0.99    |           | 0.33      | -5.52                   | -4.48    | 0.49         | 10.75     |           | 0.00  |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear(k )----- |       |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|---------------------|-------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        | Loc                 | Calc  | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup                | 0.76  | 10.94 | 0.07 | MidS                    | 1.98  | 8.52  | 0.23 | RSup      | 0.11 | 0.10         |       |
| 1      | RLap                | 0.93  | 10.94 | 0.08 | RLap                    | -4.76 | 10.67 | 0.45 | RLap      | 0.40 | -0.09        |       |
| 2      | LLap                | -1.28 | 3.81  | 0.34 | MidS                    | 3.95  | 4.17  | 0.95 | LLap      | 0.63 | 0.81         |       |
| 3      | LLap                | -0.99 | 3.81  | 0.26 | LLap                    | -4.48 | 6.31  | 0.71 | LLap      | 0.60 | -0.06        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.5                 | 12.5 | 12.5 | 12.5 | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.13         | 1.13 | 1.13 | 1.13 | 1.00 |
| 2      | 14.0       | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.00 | 1.00 | 1.00 |
| 3      | 28.0       | 1.0                  | 1.0  | 17.9 | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.14 | 1.00 | 1.00 |
| 4      | 14.0       | 1.0                  | 1.0  | 5.9  | 5.9  | 5.9  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.13 | 1.13 | 1.13 |

LOAD ID 8 : Dead+Collateral+MIN\_SNOW

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |           |           |      |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|-----------|-----------|------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Right Lap | Right Sup |      |
| 1      | 0.58                |          |           | -0.71     | 0.00                    |          | -1.83        | 6.30      |           | 0.91 |
| 1      | 0.32                |          | -0.88     | -0.97     | 0.91                    |          | 0.34         | 3.50      | 4.52      | 5.44 |
| 2      | 1.30                | 1.21     | -1.19     | -1.29     | 5.44                    | 4.18     | -3.74        | 14.09     | 3.96      | 5.20 |
| 3      | 1.02                | 0.93     |           | -0.28     | 5.20                    | 4.23     | -0.41        | 11.02     |           | 0.00 |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear(k )----- |       |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|---------------------|-------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        | Loc                 | Calc  | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup                | -0.71 | 10.94 | 0.07 | MidS                    | -1.83 | 10.67 | 0.17 | RSup      | 0.10 | -0.09        |       |
| 1      | RLap                | -0.88 | 10.94 | 0.08 | RLap                    | 4.52  | 6.64  | 0.68 | RLap      | 0.38 | 0.08         |       |
| 2      | LLap                | 1.21  | 3.81  | 0.32 | LLap                    | 4.18  | 6.81  | 0.61 | LLap      | 0.59 | -0.77        |       |
| 3      | LLap                | 0.93  | 3.81  | 0.24 | LLap                    | 4.23  | 6.66  | 0.63 | LLap      | 0.56 | 0.06         |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00  | 1.00 | 1.00  | -0.02 | 1.14         | 1.00 | 1.00 | 1.00 | 1.74 |
| 2      | 14.0       | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20  | 0.20 | 0.20  | 0.83  | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | -0.01 | 1.00 | -0.01 | 0.76  | 1.10         | 1.77 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                  | 7.3  | 1.0  | 1.0  | 5.7  | 0.81                | -0.02 | 1.00 | 1.00  | 1.00  | 1.08         | 2.03 | 1.00 | 1.00 | 1.12 |

LOAD ID 9 : Dead+Collateral+0.45Wind\_Pressure+0.75MIN\_SNOW

REACTIONS:

| Bay Id | -----Shear (k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|----------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup             | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.68                 |          |           | -0.84     | 0.00                    |          | -2.15        | 6.30         |           | 1.07      |
| 1      | 0.38                 |          | -1.03     | -1.14     | 1.07                    |          | 0.40         | 3.50         | 5.30      | 6.38      |
| 2      | 1.53                 | 1.42     | -1.40     | -1.51     | 6.38                    | 4.91     | -4.39        | 14.09        | 4.65      | 6.10      |
| 3      | 1.20                 | 1.09     |           | -0.32     | 6.10                    | 4.96     | -0.48        | 11.02        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear (k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|------|----------------------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        |      | Calc                 | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup | -0.84                | 10.94 | 0.08 | MidS                    | -2.15 | 10.67 | 0.20 | RSup      | 0.12 | -0.11        |       |
| 1      | RLap | -1.03                | 10.94 | 0.09 | RLap                    | 5.30  | 6.64  | 0.80 | RLap      | 0.45 | 0.09         |       |
| 2      | LLap | 1.42                 | 3.81  | 0.37 | LLap                    | 4.91  | 6.81  | 0.72 | LLap      | 0.70 | -0.90        |       |
| 3      | LLap | 1.09                 | 3.81  | 0.29 | LLap                    | 4.96  | 6.66  | 0.74 | LLap      | 0.66 | 0.07         |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                 | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00  | 1.00 | 1.00  | -0.02 | 1.14         | 1.00 | 1.00 | 1.00 | 1.74 |
| 2      | 14.0       | 13.0                 | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20  | 0.20 | 0.20  | 0.83  | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                  | 4.1  | 1.0  | 3.9  | 1.0  | 0.77                | -0.01 | 1.00 | -0.01 | 0.76  | 1.10         | 1.77 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                  | 7.3  | 1.0  | 1.0  | 5.7  | 0.81                | -0.02 | 1.00 | 1.00  | 1.00  | 1.08         | 2.03 | 1.00 | 1.00 | 1.12 |

LOAD ID 10 : Dead+Collateral+Snow/2+PAT\_SL\_3

REACTIONS:

| Bay Id | -----Shear (k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|----------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup             | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.47                 |          |           | -0.65     | 0.00                    |          | -1.38        | 5.89         |           | 1.24      |
| 1      | 0.44                 |          | -0.59     | -0.67     | 1.24                    |          | 0.01         | 5.56         | 2.21      | 2.84      |
| 2      | 0.65                 | 0.61     | -0.59     | -0.63     | 2.84                    | 2.21     | -1.82        | 14.24        | 1.93      | 2.54      |
| 3      | 0.50                 | 0.46     |           | -0.14     | 2.54                    | 2.06     | -0.21        | 10.94        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear (k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|------|----------------------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        |      | Calc                 | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup | -0.65                | 10.94 | 0.06 | MidS                    | -1.38 | 10.67 | 0.13 | RSup      | 0.12 | -0.06        |       |
| 1      | RLap | -0.59                | 10.94 | 0.05 | RLap                    | 2.21  | 6.64  | 0.33 | RLap      | 0.19 | 0.03         |       |
| 2      | LLap | 0.61                 | 3.81  | 0.16 | LLap                    | 2.21  | 6.80  | 0.33 | LLap      | 0.31 | -0.37        |       |
| 3      | LLap | 0.46                 | 3.81  | 0.12 | LLap                    | 2.06  | 6.67  | 0.31 | LLap      | 0.27 | 0.03         |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor (ft)----- |  |  |  |  | -----Mom1/Mom2----- |  |  |  |  | -----Cb----- |  |  |  |  |
|-----|-------|----------------------|--|--|--|--|---------------------|--|--|--|--|--------------|--|--|--|--|
|-----|-------|----------------------|--|--|--|--|---------------------|--|--|--|--|--------------|--|--|--|--|

| Id | (ft) | LSup | LLap | MidS | RLap | RSup | LSup | LLap | MidS | RLap | RSup  | LSup | LLap | MidS | RLap | RSup |
|----|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1  | 14.0 | 11.7 | 1.0  | 1.0  | 1.0  | 2.3  | 1.00 | 1.00 | 1.00 | 1.00 | -0.01 | 1.14 | 1.00 | 1.00 | 1.00 | 1.76 |
| 2  | 14.0 | 13.0 | 13.0 | 13.0 | 13.0 | 1.0  | 0.56 | 0.56 | 0.56 | 0.56 | 0.78  | 2.30 | 2.30 | 2.30 | 2.30 | 1.10 |
| 3  | 28.0 | 1.0  | 4.3  | 1.0  | 3.9  | 1.0  | 0.78 | 0.00 | 1.00 | 0.00 | 0.76  | 1.10 | 1.76 | 1.00 | 1.76 | 1.11 |
| 4  | 14.0 | 1.0  | 6.9  | 1.0  | 1.0  | 6.1  | 0.81 | 0.00 | 1.00 | 1.00 | 1.00  | 1.08 | 1.96 | 1.00 | 1.00 | 1.14 |

LOAD ID 11 : Dead+Collateral+Snow/2+PAT\_SL\_4

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.30                |          |           | -0.34     | 0.00                    |          | -0.97        | 6.50         |           | 0.32      |
| 1      | 0.23                |          | -0.80     | -0.88     | 0.32                    |          | -0.01        | 2.91         | 4.04      | 4.88      |
| 2      | 1.14                | 1.06     | -1.01     | -1.09     | 4.88                    | 3.78     | -3.30        | 14.34        | 3.07      | 4.12      |
| 3      | 0.62                | 0.57     |           | -0.03     | 4.12                    | 3.53     | -0.01        | 13.40        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|------|---------------------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        |      | Calc                | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup | -0.34               | 10.94 | 0.03 | MidS                    | -0.97 | 10.67 | 0.09 | RSup      | 0.04 | -0.05        |       |
| 1      | RLap | -0.80               | 10.94 | 0.07 | RLap                    | 4.04  | 9.70  | 0.42 | RLap      | 0.34 | 0.06         |       |
| 2      | LLap | 1.06                | 3.81  | 0.28 | LLap                    | 3.78  | 6.80  | 0.56 | LLap      | 0.53 | -0.69        |       |
| 3      | LLap | 0.57                | 3.81  | 0.15 | LLap                    | 3.53  | 5.79  | 0.61 | LLap      | 0.45 | 0.09         |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |      | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|-------|------|-------|------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 13.0                 | 1.0  | 1.0  | 1.0  | 1.0  | 1.00                | 1.00  | 1.00 | 1.00  | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.70 |
| 2      | 14.0       | 2.9                  | 1.0  | 1.0  | 9.5  | 1.0  | -0.05               | 1.00  | 1.00 | 0.00  | 0.83 | 2.30         | 1.00 | 1.00 | 2.23 | 1.08 |
| 3      | 28.0       | 1.0                  | 4.3  | 1.0  | 3.6  | 1.0  | 0.77                | -0.01 | 1.00 | -0.02 | 0.75 | 1.10         | 1.77 | 1.00 | 1.78 | 1.12 |
| 4      | 14.0       | 1.0                  | 12.4 | 1.0  | 12.4 | 0.6  | 0.86                | 0.00  | 1.00 | 0.00  | 1.00 | 1.06         | 2.30 | 1.00 | 2.30 | 1.30 |

LOAD ID 12 : Dead+Collateral+Snow/2+PAT\_SL\_5

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment (f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|-------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.32                |          |           | -0.32     | 0.00                    |          | -1.13        | 7.01         |           | -0.01     |
| 1      | 0.00                |          | -0.60     | -0.65     | -0.01                   |          | -0.01        | 0.00         | 3.92      | 4.54      |
| 2      | 1.11                | 1.03     | -1.03     | -1.11     | 4.54                    | 3.47     | -3.26        | 14.01        | 3.45      | 4.52      |
| 3      | 0.88                | 0.80     |           | -0.23     | 4.52                    | 3.68     | -0.34        | 11.06        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment (f-k )----- |       |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|------|---------------------|-------|------|-------------------------|-------|-------|------|-----------|------|--------------|-------|
|        |      | Calc                | Limit | UC   | Loc                     | Calc  | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | LSup | 0.32                | 10.94 | 0.03 | MidS                    | -1.13 | 10.67 | 0.11 | LSup      | 0.00 | -0.06        |       |
| 1      | RLap | -0.60               | 10.94 | 0.05 | RLap                    | 3.92  | 6.64  | 0.59 | RLap      | 0.33 | 0.08         |       |
| 2      | LLap | 1.03                | 3.81  | 0.27 | MidS                    | -3.26 | 6.31  | 0.52 | LLap      | 0.50 | -0.67        |       |
| 3      | LLap | 0.80                | 3.81  | 0.21 | LLap                    | 3.68  | 6.66  | 0.55 | LLap      | 0.49 | 0.05         |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|----------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 14.0                 | 1.0  | 1.0  | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.00 |

|   |      |     |      |     |      |     |      |       |      |       |      |      |      |      |      |      |
|---|------|-----|------|-----|------|-----|------|-------|------|-------|------|------|------|------|------|------|
| 2 | 14.0 | 1.0 | 13.0 | 1.0 | 13.0 | 1.0 | 1.00 | 0.00  | 1.00 | 0.00  | 0.86 | 1.00 | 2.30 | 1.00 | 2.30 | 1.06 |
| 3 | 28.0 | 1.0 | 4.1  | 1.0 | 4.1  | 1.0 | 0.76 | -0.03 | 1.00 | -0.03 | 0.76 | 1.11 | 1.79 | 1.00 | 1.79 | 1.11 |
| 4 | 14.0 | 1.0 | 7.4  | 1.0 | 1.0  | 5.6 | 0.81 | -0.02 | 1.00 | 1.00  | 1.00 | 1.08 | 2.03 | 1.00 | 1.00 | 1.12 |

LOAD ID 13 : Dead+Collateral+Snow/2+PAT\_SL\_1

REACTIONS:

| Bay Id | Shear(k ) |          |           |           | Moment (f-k ) |          |              |              |           |           |
|--------|-----------|----------|-----------|-----------|---------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup  | Left Lap | Right Lap | Right Sup | Left Sup      | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.49      |          |           | -0.62     | 0.00          |          | -1.53        | 6.21         |           | 0.88      |
| 1      | 0.20      |          | -0.40     | -0.45     | 0.88          |          | 0.46         | 4.27         | 2.21      | 2.64      |
| 2      | 0.64      | 0.60     | -0.60     | -0.64     | 2.64          | 2.01     | -1.88        | 14.02        | 1.99      | 2.61      |
| 3      | 0.51      | 0.46     |           | -0.14     | 2.61          | 2.12     | -0.20        | 11.05        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | Shear(k ) |       |      | Moment (f-k ) |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|-----------|-------|------|---------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc      | Limit | UC   | Loc           | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.62     | 10.94 | 0.06 | MidS          | -1.53 | 10.67 | 0.14 | RSup      | 0.09 | -0.07       |       |
| 1      | RLap | -0.40     | 10.94 | 0.04 | RLap          | 2.21  | 6.27  | 0.35 | RLap      | 0.19 | 0.05        |       |
| 2      | LLap | 0.60      | 3.81  | 0.16 | MidS          | -1.88 | 6.31  | 0.30 | LLap      | 0.29 | -0.39       |       |
| 3      | LLap | 0.46      | 3.81  | 0.12 | LLap          | 2.12  | 6.66  | 0.32 | LLap      | 0.28 | 0.03        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | Minor (ft) |      |      |      |      | Mom1/Mom2 |      |      |      |       | Cb   |      |      |      |      |
|--------|------------|------------|------|------|------|------|-----------|------|------|------|-------|------|------|------|------|------|
|        |            | LSup       | LLap | MidS | RLap | RSup | LSup      | LLap | MidS | RLap | RSup  | LSup | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.4       | 1.0  | 1.0  | 1.0  | 1.6  | 1.00      | 1.00 | 1.00 | 1.00 | -0.02 | 1.14 | 1.00 | 1.00 | 1.00 | 1.74 |
| 2      | 14.0       | 13.0       | 13.0 | 13.0 | 13.0 | 1.0  | 0.40      | 0.40 | 0.40 | 0.40 | 0.84  | 2.17 | 2.17 | 2.17 | 2.17 | 1.07 |
| 3      | 28.0       | 1.0        | 4.0  | 1.0  | 3.9  | 1.0  | 0.76      | 0.00 | 1.00 | 0.00 | 0.76  | 1.11 | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0        | 7.1  | 1.0  | 1.0  | 5.9  | 0.81      | 0.00 | 1.00 | 1.00 | 1.00  | 1.08 | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 14 : Dead+Collateral+Snow/2+PAT\_SL\_2

REACTIONS:

| Bay Id | Shear(k ) |          |           |           | Moment (f-k ) |          |              |              |           |           |
|--------|-----------|----------|-----------|-----------|---------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup  | Left Lap | Right Lap | Right Sup | Left Sup      | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.29      |          |           | -0.36     | 0.00          |          | -0.90        | 6.25         |           | 0.48      |
| 1      | 0.17      |          | -0.43     | -0.47     | 0.48          |          | 0.16         | 3.75         | 2.13      | 2.57      |
| 2      | 0.63      | 0.59     | -0.61     | -0.66     | 2.57          | 1.97     | -1.76        | 13.74        | 2.28      | 2.92      |
| 3      | 0.77      | 0.69     |           | -0.35     | 2.92          | 2.19     | -0.76        | 9.62         |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | Shear(k ) |       |      | Moment (f-k ) |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|-----------|-------|------|---------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc      | Limit | UC   | Loc           | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.36     | 10.94 | 0.03 | MidS          | -0.90 | 10.67 | 0.08 | RSup      | 0.05 | -0.04       |       |
| 1      | RLap | -0.43     | 10.94 | 0.04 | RLap          | 2.13  | 6.64  | 0.32 | RLap      | 0.18 | 0.04        |       |
| 2      | RLap | -0.61     | 3.81  | 0.16 | RLap          | 2.28  | 6.78  | 0.34 | RLap      | 0.32 | -0.35       |       |
| 3      | LLap | 0.69      | 3.81  | 0.18 | LLap          | 2.19  | 6.80  | 0.32 | LLap      | 0.32 | -0.01       |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | Minor (ft) |      |      |      |      | Mom1/Mom2 |       |      |      |      | Cb   |      |      |      |      |
|--------|------------|------------|------|------|------|------|-----------|-------|------|------|------|------|------|------|------|------|
|        |            | LSup       | LLap | MidS | RLap | RSup | LSup      | LLap  | MidS | RLap | RSup | LSup | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.5       | 1.0  | 1.0  | 1.0  | 1.5  | 1.00      | 1.00  | 1.00 | 1.00 | 0.00 | 1.14 | 1.00 | 1.00 | 1.00 | 1.72 |
| 2      | 14.0       | 13.0       | 13.0 | 13.0 | 13.0 | 1.0  | 0.23      | 0.23  | 0.23 | 0.23 | 0.83 | 2.30 | 2.30 | 2.30 | 2.30 | 1.08 |
| 3      | 28.0       | 1.0        | 4.0  | 1.0  | 4.5  | 1.0  | 0.76      | 0.00  | 1.00 | 0.00 | 0.78 | 1.11 | 1.76 | 1.00 | 1.77 | 1.10 |
| 4      | 14.0       | 1.0        | 4.3  | 1.0  | 1.0  | 8.7  | 0.75      | -0.02 | 1.00 | 1.00 | 1.00 | 1.11 | 1.87 | 1.00 | 1.00 | 1.13 |

LOAD ID 15 : Dead+Collateral+Snow-PAT\_SL\_1

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.30                |          |           | -0.35     | 0.00                   |          | -0.95        | 6.45         |           | 0.35      |
| 1      | 0.24                |          | -0.79     | -0.87     | 0.35                   |          | -0.02        | 3.05         | 3.91      | 4.74      |
| 2      | 1.12                | 1.04     | -1.02     | -1.10     | 4.74                   | 3.66     | -3.19        | 14.14        | 3.38      | 4.44      |
| 3      | 0.87                | 0.79     |           | -0.24     | 4.44                   | 3.61     | -0.36        | 11.00        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment(f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|---------------------|-------|------|------------------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc                | Limit | UC   | Loc                    | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.35               | 10.94 | 0.03 | MidS                   | -0.95 | 10.67 | 0.09 | RSup      | 0.04 | -0.05       |       |
| 1      | RLap | -0.79               | 10.94 | 0.07 | RLap                   | 3.91  | 9.47  | 0.41 | RLap      | 0.33 | 0.06        |       |
| 2      | LLap | 1.04                | 3.81  | 0.27 | LLap                   | 3.66  | 6.81  | 0.54 | LLap      | 0.52 | -0.65       |       |
| 3      | LLap | 0.79                | 3.81  | 0.21 | LLap                   | 3.61  | 6.67  | 0.54 | LLap      | 0.48 | 0.05        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |       | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|------|------|------|-------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.7                | 1.0  | 1.0  | 1.0  | 1.3  | 1.00                | 1.00 | 1.00 | 1.00 | -0.19 | 1.13         | 1.00 | 1.00 | 1.00 | 1.98 |
| 2      | 14.0       | 3.1                 | 1.0  | 1.0  | 9.9  | 1.0  | -0.05               | 1.00 | 1.00 | 0.00 | 0.83  | 2.30         | 1.00 | 1.00 | 2.30 | 1.08 |
| 3      | 28.0       | 1.0                 | 4.2  | 1.0  | 3.9  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.76  | 1.10         | 1.76 | 1.00 | 1.76 | 1.11 |
| 4      | 14.0       | 1.0                 | 7.0  | 1.0  | 1.0  | 6.0  | 0.81                | 0.00 | 1.00 | 1.00 | 1.00  | 1.08         | 1.97 | 1.00 | 1.00 | 1.14 |

LOAD ID 16 : Dead+Collateral+Snow-PAT\_SL\_2

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.50                |          |           | -0.61     | 0.00                   |          | -1.59        | 6.33         |           | 0.75      |
| 1      | 0.27                |          | -0.77     | -0.85     | 0.75                   |          | 0.30         | 3.35         | 4.00      | 4.81      |
| 2      | 1.14                | 1.06     | -1.01     | -1.09     | 4.81                   | 3.71     | -3.32        | 14.30        | 3.09      | 4.14      |
| 3      | 0.62                | 0.57     |           | -0.03     | 4.14                   | 3.54     | -0.01        | 13.44        |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment(f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|---------------------|-------|------|------------------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc                | Limit | UC   | Loc                    | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.61               | 10.94 | 0.06 | MidS                   | -1.59 | 10.67 | 0.15 | RSup      | 0.08 | -0.08       |       |
| 1      | RLap | -0.77               | 10.94 | 0.07 | RLap                   | 4.00  | 6.64  | 0.60 | RLap      | 0.34 | 0.07        |       |
| 2      | LLap | 1.06                | 3.81  | 0.28 | LLap                   | 3.71  | 6.81  | 0.54 | LLap      | 0.52 | -0.69       |       |
| 3      | LLap | 0.57                | 3.81  | 0.15 | LLap                   | 3.54  | 5.78  | 0.61 | LLap      | 0.45 | 0.10        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.7                | 1.0  | 1.0  | 1.0  | 1.3  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.71 |
| 2      | 14.0       | 13.0                | 13.0 | 13.0 | 13.0 | 1.0  | 0.19                | 0.19 | 0.19 | 0.19 | 0.83 | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                 | 4.2  | 1.0  | 3.6  | 1.0  | 0.77                | 0.00 | 1.00 | 0.00 | 0.75 | 1.10         | 1.76 | 1.00 | 1.75 | 1.11 |
| 4      | 14.0       | 1.0                 | 12.4 | 1.0  | 12.4 | 0.6  | 0.86                | 0.00 | 1.00 | 0.00 | 1.00 | 1.06         | 2.30 | 1.00 | 2.30 | 1.27 |

LOAD ID 17 : Dead+Collateral+UNB\_SL

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |           |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|-----------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Right Loc | Right Lap | Right Sup |
| 1      | 0.50                |          |           | -0.61     | 0.00                   |          | -1.58        | 6.30      |           | 0.78      |
| 1      | 0.28                |          | -0.76     | -0.84     | 0.78                   |          | 0.30         | 3.50      | 3.89      | 4.69      |
| 2      | 1.12                | 1.04     | -1.03     | -1.11     | 4.69                   | 3.60     | -3.22        | 14.09     | 3.41      | 4.48      |
| 3      | 0.88                | 0.80     |           | -0.24     | 4.48                   | 3.64     | -0.35        | 11.02     |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | Loc  | -----Shear(k )----- |       |      | -----Moment(f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|------|---------------------|-------|------|------------------------|-------|-------|------|-----------|------|-------------|-------|
|        |      | Calc                | Limit | UC   | Loc                    | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup | -0.61               | 10.94 | 0.06 | MidS                   | -1.58 | 10.67 | 0.15 | RSup      | 0.09 | -0.08       |       |
| 1      | RLap | -0.76               | 10.94 | 0.07 | RLap                   | 3.89  | 6.64  | 0.59 | RLap      | 0.33 | 0.07        |       |
| 2      | LLap | 1.04                | 3.81  | 0.27 | LLap                   | 3.60  | 6.81  | 0.53 | LLap      | 0.51 | -0.66       |       |
| 3      | LLap | 0.80                | 3.81  | 0.21 | LLap                   | 3.64  | 6.66  | 0.55 | LLap      | 0.48 | 0.05        |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 12.6                | 1.0  | 1.0  | 1.0  | 1.4  | 1.00                | 1.00  | 1.00 | 1.00  | -0.02 | 1.14         | 1.00 | 1.00 | 1.00 | 1.74 |
| 2      | 14.0       | 13.0                | 13.0 | 13.0 | 13.0 | 1.0  | 0.20                | 0.20  | 0.20 | 0.20  | 0.83  | 2.30         | 2.30 | 2.30 | 2.30 | 1.07 |
| 3      | 28.0       | 1.0                 | 4.2  | 1.0  | 4.0  | 1.0  | 0.77                | -0.03 | 1.00 | -0.03 | 0.76  | 1.10         | 1.80 | 1.00 | 1.79 | 1.11 |
| 4      | 14.0       | 1.0                 | 7.3  | 1.0  | 1.0  | 5.7  | 0.81                | -0.02 | 1.00 | 1.00  | 1.00  | 1.08         | 2.03 | 1.00 | 1.00 | 1.12 |

DEFLECTION:

LOAD ID 18 : Dead+Collateral+Live

| Bay Id | DEFLECTION(in) |       |       |
|--------|----------------|-------|-------|
|        | Calc           | Limit | Ratio |
| 1      | -0.11          | 1.87  | 0.06  |
| 1      | 0.10           | 1.87  | 0.05  |
| 2      | -0.93          | 1.87  | 0.50  |
| 3      | 0.07           | 0.93  | 0.08  |

LOAD ID 19 : Dead+Collateral+Snow

| Bay Id | DEFLECTION(in) |       |       |
|--------|----------------|-------|-------|
|        | Calc           | Limit | Ratio |
| 1      | -0.08          | 1.87  | 0.04  |
| 1      | 0.07           | 1.87  | 0.04  |
| 2      | -0.66          | 1.87  | 0.35  |
| 3      | 0.05           | 0.93  | 0.05  |

LOAD ID 20 : Dead+Collateral+Snow+Snow\_Drift

| Bay Id | DEFLECTION(in) |       |       |
|--------|----------------|-------|-------|
|        | Calc           | Limit | Ratio |
| 1      | -0.08          | 1.87  | 0.04  |
| 1      | 0.07           | 1.87  | 0.04  |
| 2      | -0.66          | 1.87  | 0.35  |
| 3      | 0.05           | 0.93  | 0.05  |

LOAD ID 21 : Dead+Collateral+0.75Live+0.41Wind\_Pressure

| Bay Id | DEFLECTION(in) |
|--------|----------------|
|--------|----------------|

| Id | Calc  | Limit | Ratio |
|----|-------|-------|-------|
| 1  | -0.12 | 2.24  | 0.05  |
| 1  | 0.10  | 2.24  | 0.05  |
| 2  | -0.99 | 2.24  | 0.44  |
| 3  | 0.08  | 1.12  | 0.07  |

LOAD ID 22 : Dead+Collateral+0.75Snow+0.41Wind\_Pressure

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
| Id     | Calc           | Limit | Ratio |
| 1      | -0.09          | 2.24  | 0.04  |
| 1      | 0.08           | 2.24  | 0.04  |
| 2      | -0.79          | 2.24  | 0.35  |
| 3      | 0.06           | 1.12  | 0.05  |

LOAD ID 23 : Dead+Collateral+0.75Snow+0.41Wind\_Pressure+0.75Snow\_Drift

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
| Id     | Calc           | Limit | Ratio |
| 1      | -0.09          | 2.24  | 0.04  |
| 1      | 0.08           | 2.24  | 0.04  |
| 2      | -0.79          | 2.24  | 0.35  |
| 3      | 0.06           | 1.12  | 0.05  |

LOAD ID 24 : 0.6Dead+0.54Wind\_Suction

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
| Id     | Calc           | Limit | Ratio |
| 1      | 0.09           | 2.24  | 0.04  |
| 1      | -0.08          | 2.24  | 0.03  |
| 2      | 0.72           | 2.24  | 0.32  |
| 3      | -0.05          | 1.12  | 0.05  |

LOAD ID 25 : Dead+Collateral+MIN\_SNOW

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
| Id     | Calc           | Limit | Ratio |
| 1      | -0.09          | 1.87  | 0.05  |
| 1      | 0.08           | 1.87  | 0.04  |
| 2      | -0.77          | 1.87  | 0.41  |
| 3      | 0.06           | 0.93  | 0.06  |

LOAD ID 26 : Dead+Collateral+0.41Wind\_Pressure+0.75MIN\_SNOW

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
| Id     | Calc           | Limit | Ratio |
| 1      | -0.10          | 2.24  | 0.05  |
| 1      | 0.09           | 2.24  | 0.04  |
| 2      | -0.87          | 2.24  | 0.39  |
| 3      | 0.07           | 1.12  | 0.06  |

LOAD ID 27 : Dead+Collateral+Snow/2+PAT\_SL\_3

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
| Id     | Calc           | Limit | Ratio |
| 1      | -0.06          | 1.87  | 0.03  |
| 1      | 0.03           | 1.87  | 0.01  |
| 2      | -0.37          | 1.87  | 0.20  |

3 0.03 0.93 0.03

LOAD ID 28 : Dead+Collateral+Snow/2+PAT\_SL\_4

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.05 1.87 0.03  
1 0.06 1.87 0.03  
2 -0.69 1.87 0.37  
3 0.09 0.93 0.10

LOAD ID 29 : Dead+Collateral+Snow/2+PAT\_SL\_5

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.06 1.87 0.03  
1 0.08 1.87 0.04  
2 -0.67 1.87 0.36  
3 0.05 0.93 0.06

LOAD ID 30 : Dead+Collateral+Snow/2+PAT\_SL\_1

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.07 1.87 0.04  
1 0.05 1.87 0.03  
2 -0.39 1.87 0.21  
3 0.03 0.93 0.03

LOAD ID 31 : Dead+Collateral+Snow/2+PAT\_SL\_2

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.04 1.87 0.02  
1 0.04 1.87 0.02  
2 -0.35 1.87 0.19  
3 -0.01 0.93 0.02

LOAD ID 32 : Dead+Collateral+Snow-PAT\_SL\_1

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.05 1.87 0.03  
1 0.06 1.87 0.03  
2 -0.65 1.87 0.35  
3 0.05 0.93 0.05

LOAD ID 33 : Dead+Collateral+Snow-PAT\_SL\_2

-----  
Bay DEFLECTION(in)  
Id Calc Limit Ratio  
----  
1 -0.08 1.87 0.04  
1 0.07 1.87 0.04  
2 -0.69 1.87 0.37  
3 0.10 0.93 0.10

LOAD ID 34 : Dead+Collateral+UNB\_SL

-----  
Bay DEFLECTION(in)



| Id | Calc  | Limit | Ratio |
|----|-------|-------|-------|
| 1  | -0.08 | 1.87  | 0.04  |
| 1  | 0.07  | 1.87  | 0.04  |
| 2  | -0.66 | 1.87  | 0.35  |
| 3  | 0.05  | 0.93  | 0.06  |

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11 12                                  Purlin Lap Screw                                  2/14/23    7:44am

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LAP SCREW SHEAR:

Screw Part =#1A  
Screw Quan =6

| Surf Id | Bay Id | -----Left_Lap(k)----- |      |       |      | -----Right_Lap(k)----- |      |       |      |
|---------|--------|-----------------------|------|-------|------|------------------------|------|-------|------|
|         |        | Load                  | Calc | Limit | UC   | Load                   | Calc | Limit | UC   |
| 2       | 1      |                       |      |       |      | 4                      | 0.70 | 0.68  | 1.02 |
|         | 2      | 4                     | 0.51 | 0.68  | 0.75 | 4                      | 0.58 | 0.68  | 0.85 |
|         | 3      | 4                     | 0.58 | 0.68  | 0.85 |                        |      |       |      |
| 3       | 1      |                       |      |       |      | 4                      | 0.70 | 0.68  | 1.02 |
|         | 2      | 4                     | 0.51 | 0.68  | 0.75 | 4                      | 0.58 | 0.68  | 0.85 |
|         | 3      | 4                     | 0.58 | 0.68  | 0.85 |                        |      |       |      |

PANEL LAYOUT:

| Surf Id | Part  | Type | Gage  | Yield | Surface Length | Rotation Stiffness |
|---------|-------|------|-------|-------|----------------|--------------------|
| 2       | PBR26 | PR   | 26.00 | 60.0  | 30.03          | 0.00               |
| 3       | PBR26 | PR   | 26.00 | 60.0  | 35.03          | 0.00               |

PANEL STRENGTH:

| Surf Id | Area   | Load Id | -----Support----- |       |       |       | -----Midspan----- |       |       |       |
|---------|--------|---------|-------------------|-------|-------|-------|-------------------|-------|-------|-------|
|         |        |         | Offset (ft)       | Calc  | Limit | Ratio | Offset (ft)       | Calc  | Limit | Ratio |
| 2       | Left   | 1       | 5.0               | 58.2  | 153.1 | 0.38  | 2.0               | -42.7 | 111.4 | 0.38  |
|         |        | 2       | 25.0              | 40.7  | 153.1 | 0.27  | 2.0               | -29.9 | 111.4 | 0.27  |
|         |        | 3       | 25.0              | 40.7  | 153.1 | 0.27  | 2.0               | -29.9 | 111.4 | 0.27  |
|         |        | 4       | 5.0               | 64.0  | 153.1 | 0.42  | 2.0               | -47.0 | 111.4 | 0.42  |
|         |        | 5       | 5.0               | 50.9  | 153.1 | 0.33  | 2.0               | -37.4 | 111.4 | 0.34  |
|         |        | 6       | 5.0               | -103  | 111.4 | 0.92  | 2.0               | 72.7  | 153.1 | 0.47  |
|         |        | 7       | 5.0               | 47.6  | 153.1 | 0.31  | 2.0               | -35.0 | 111.4 | 0.31  |
|         |        | 8       | 5.0               | 56.1  | 153.1 | 0.37  | 2.0               | -41.2 | 111.4 | 0.37  |
|         |        | 9       | 25.0              | 56.4  | 153.1 | 0.37  | 28.1              | -41.4 | 111.4 | 0.37  |
| 2       | Center | 1       | 5.0               | 58.2  | 153.1 | 0.38  | 2.0               | -42.7 | 111.4 | 0.38  |
|         |        | 2       | 25.0              | 40.7  | 153.1 | 0.27  | 2.0               | -29.9 | 111.4 | 0.27  |
|         |        | 3       | 25.0              | 40.7  | 153.1 | 0.27  | 2.0               | -29.9 | 111.4 | 0.27  |
|         |        | 4       | 5.0               | 64.0  | 153.1 | 0.42  | 2.0               | -47.0 | 111.4 | 0.42  |
|         |        | 5       | 5.0               | 50.9  | 153.1 | 0.33  | 2.0               | -37.4 | 111.4 | 0.34  |
|         |        | 6       | 5.0               | -74.6 | 111.4 | 0.67  | 2.0               | 52.8  | 153.1 | 0.35  |
|         |        | 7       | 5.0               | 47.6  | 153.1 | 0.31  | 2.0               | -35.0 | 111.4 | 0.31  |
|         |        | 8       | 5.0               | 56.1  | 153.1 | 0.37  | 2.0               | -41.2 | 111.4 | 0.37  |
|         |        | 9       | 25.0              | 56.4  | 153.1 | 0.37  | 28.1              | -41.4 | 111.4 | 0.37  |
| 2       | Right  | 1       | 5.0               | 58.2  | 153.1 | 0.38  | 2.0               | -42.7 | 111.4 | 0.38  |
|         |        | 2       | 25.0              | 40.7  | 153.1 | 0.27  | 2.0               | -29.9 | 111.4 | 0.27  |
|         |        | 3       | 25.0              | 40.7  | 153.1 | 0.27  | 2.0               | -29.9 | 111.4 | 0.27  |
|         |        | 4       | 5.0               | 64.0  | 153.1 | 0.42  | 2.0               | -47.0 | 111.4 | 0.42  |
|         |        | 5       | 5.0               | 50.9  | 153.1 | 0.33  | 2.0               | -37.4 | 111.4 | 0.34  |
|         |        | 6       | 5.0               | -103  | 111.4 | 0.92  | 2.0               | 72.7  | 153.1 | 0.47  |
|         |        | 7       | 5.0               | 47.6  | 153.1 | 0.31  | 2.0               | -35.0 | 111.4 | 0.31  |
|         |        | 8       | 5.0               | 56.1  | 153.1 | 0.37  | 2.0               | -41.2 | 111.4 | 0.37  |
|         |        | 9       | 25.0              | 56.4  | 153.1 | 0.37  | 28.1              | -41.4 | 111.4 | 0.37  |
| 3       | Left   | 1       | 30.0              | 58.1  | 153.1 | 0.38  | 33.1              | -42.8 | 111.4 | 0.38  |
|         |        | 2       | 30.0              | 40.7  | 153.1 | 0.27  | 33.1              | -29.9 | 111.4 | 0.27  |
|         |        | 3       | 30.0              | 40.7  | 153.1 | 0.27  | 33.1              | -29.9 | 111.4 | 0.27  |
|         |        | 4       | 30.0              | 63.9  | 153.1 | 0.42  | 33.1              | -47.1 | 111.4 | 0.42  |
|         |        | 5       | 30.0              | 50.9  | 153.1 | 0.33  | 33.1              | -37.5 | 111.4 | 0.34  |
|         |        | 6       | 30.0              | -103  | 111.4 | 0.92  | 33.1              | 72.7  | 153.1 | 0.48  |
|         |        | 7       | 30.0              | 47.5  | 153.1 | 0.31  | 33.1              | -35.0 | 111.4 | 0.31  |
|         |        | 8       | 30.0              | 56.0  | 153.1 | 0.37  | 33.1              | -41.2 | 111.4 | 0.37  |
|         |        | 9       | 5.0               | 55.3  | 153.1 | 0.36  | 2.0               | -40.6 | 111.4 | 0.36  |
| 3       | Center | 1       | 30.0              | 58.1  | 153.1 | 0.38  | 33.1              | -42.8 | 111.4 | 0.38  |
|         |        | 2       | 30.0              | 40.7  | 153.1 | 0.27  | 33.1              | -29.9 | 111.4 | 0.27  |
|         |        | 3       | 30.0              | 40.7  | 153.1 | 0.27  | 33.1              | -29.9 | 111.4 | 0.27  |
|         |        | 4       | 30.0              | 63.9  | 153.1 | 0.42  | 33.1              | -47.1 | 111.4 | 0.42  |
|         |        | 5       | 30.0              | 50.9  | 153.1 | 0.33  | 33.1              | -37.5 | 111.4 | 0.34  |
|         |        | 6       | 30.0              | -74.6 | 111.4 | 0.67  | 33.1              | 52.8  | 153.1 | 0.35  |
|         |        | 7       | 30.0              | 47.5  | 153.1 | 0.31  | 33.1              | -35.0 | 111.4 | 0.31  |
|         |        | 8       | 30.0              | 56.0  | 153.1 | 0.37  | 33.1              | -41.2 | 111.4 | 0.37  |
|         |        | 9       | 5.0               | 55.3  | 153.1 | 0.36  | 2.0               | -40.6 | 111.4 | 0.36  |

|   |       |   |      |      |       |      |      |       |       |      |
|---|-------|---|------|------|-------|------|------|-------|-------|------|
| 3 | Right | 1 | 30.0 | 58.1 | 153.1 | 0.38 | 33.1 | -42.8 | 111.4 | 0.38 |
|   |       | 2 | 30.0 | 40.7 | 153.1 | 0.27 | 33.1 | -29.9 | 111.4 | 0.27 |
|   |       | 3 | 30.0 | 40.7 | 153.1 | 0.27 | 33.1 | -29.9 | 111.4 | 0.27 |
|   |       | 4 | 30.0 | 63.9 | 153.1 | 0.42 | 33.1 | -47.1 | 111.4 | 0.42 |
|   |       | 5 | 30.0 | 50.9 | 153.1 | 0.33 | 33.1 | -37.5 | 111.4 | 0.34 |
|   |       | 6 | 30.0 | -103 | 111.4 | 0.92 | 33.1 | 72.7  | 153.1 | 0.48 |
|   |       | 7 | 30.0 | 47.5 | 153.1 | 0.31 | 33.1 | -35.0 | 111.4 | 0.31 |
|   |       | 8 | 30.0 | 56.0 | 153.1 | 0.37 | 33.1 | -41.2 | 111.4 | 0.37 |
|   |       | 9 | 5.0  | 55.3 | 153.1 | 0.36 | 2.0  | -40.6 | 111.4 | 0.36 |

PANEL DEFLECTION:

| Surf Id | Area   | Load Id | -----Deflection(in)----- |       |       |       |
|---------|--------|---------|--------------------------|-------|-------|-------|
|         |        |         | Offset                   | Calc  | Limit | Ratio |
| 2       | Left   | 10      | 2.5                      | -0.16 | 1.00  | 0.16  |
|         |        | 11      | 2.5                      | -0.11 | 1.00  | 0.11  |
|         |        | 12      | 2.5                      | -0.11 | 1.00  | 0.11  |
|         |        | 13      | 2.5                      | -0.07 | 1.00  | 0.07  |
|         |        | 14      | 2.5                      | 0.27  | 1.00  | 0.27  |
|         |        | 15      | 2.5                      | -0.13 | 1.00  | 0.13  |
| 2       | Center | 16      | 27.5                     | -0.17 | 1.00  | 0.17  |
|         |        | 10      | 2.5                      | -0.16 | 1.00  | 0.16  |
|         |        | 11      | 2.5                      | -0.11 | 1.00  | 0.11  |
|         |        | 12      | 2.5                      | -0.11 | 1.00  | 0.11  |
|         |        | 13      | 2.5                      | -0.07 | 1.00  | 0.07  |
|         |        | 14      | 2.5                      | 0.20  | 1.00  | 0.20  |
| 2       | Right  | 15      | 2.5                      | -0.13 | 1.00  | 0.13  |
|         |        | 16      | 27.5                     | -0.17 | 1.00  | 0.17  |
|         |        | 10      | 2.5                      | -0.16 | 1.00  | 0.16  |
|         |        | 11      | 2.5                      | -0.11 | 1.00  | 0.11  |
|         |        | 12      | 2.5                      | -0.11 | 1.00  | 0.11  |
|         |        | 13      | 2.5                      | -0.07 | 1.00  | 0.07  |
| 3       | Left   | 14      | 2.5                      | 0.27  | 1.00  | 0.27  |
|         |        | 15      | 2.5                      | -0.13 | 1.00  | 0.13  |
|         |        | 16      | 27.5                     | -0.17 | 1.00  | 0.17  |
|         |        | 10      | 2.5                      | -0.16 | 1.00  | 0.16  |
|         |        | 11      | 32.5                     | -0.11 | 1.00  | 0.11  |
|         |        | 12      | 32.5                     | -0.11 | 1.00  | 0.11  |
| 3       | Center | 13      | 32.5                     | -0.07 | 1.00  | 0.07  |
|         |        | 14      | 32.5                     | 0.20  | 1.00  | 0.20  |
|         |        | 15      | 32.5                     | -0.13 | 1.00  | 0.13  |
|         |        | 16      | 2.5                      | -0.17 | 1.00  | 0.17  |
|         |        | 10      | 2.5                      | -0.16 | 1.00  | 0.16  |
|         |        | 11      | 32.5                     | -0.11 | 1.00  | 0.11  |
| 3       | Right  | 12      | 32.5                     | -0.11 | 1.00  | 0.11  |
|         |        | 13      | 32.5                     | -0.07 | 1.00  | 0.07  |
|         |        | 14      | 32.5                     | 0.27  | 1.00  | 0.27  |
|         |        | 15      | 32.5                     | -0.13 | 1.00  | 0.13  |
|         |        | 16      | 2.5                      | -0.17 | 1.00  | 0.17  |
|         |        | 10      | 2.5                      | -0.16 | 1.00  | 0.16  |

LOAD COMBINATION:

| Load Id | Description |
|---------|-------------|
| 1       | Dead+Live   |
| 2       | Dead+Snow   |

3 Dead+Snow+Snow Drift  
4 Dead+0.75Live+0.45Wind\_Pressure  
5 Dead+0.75Snow+0.45Wind\_Pressure  
6 0.6Dead+0.6Wind\_Suction  
7 Dead+MIN\_SNOW  
8 Dead+0.45Wind\_Pressure+0.75MIN\_SNOW  
9 Dead+Collateral+UNB\_SL  
10 Live  
11 Snow  
12 Snow+Snow\_Drift  
13 0.54Wind\_Pressure  
14 0.54Wind\_Suction  
15 MIN\_SNOW  
16 Dead+Collateral+UNB\_SL

## PANEL:

| Part  | Thick<br>(in) | Yield<br>(ksi ) | Tensile<br>Strength<br>(ksi ) |
|-------|---------------|-----------------|-------------------------------|
| PBR26 | 0.019         | 60.00           | 78.00                         |

## PURLIN SCREWS:

| Part | Dia<br>(in) | Washer<br>(in) | Limit<br>(k ) |
|------|-------------|----------------|---------------|
| #17A | 0.209       | 0.50           | 2.90          |

## PANEL ZONE LAYOUT:

| Surf<br>Id | Zone<br>Id | Description     | ---Locate (ft)--- |       | --Surface (ft)-- |         | Bay<br>Id | -Purlin(ft,in)- |       | Panel<br>Zone<br>(ft) |       |
|------------|------------|-----------------|-------------------|-------|------------------|---------|-----------|-----------------|-------|-----------------------|-------|
|            |            |                 | Start             | End   | Offset1          | Offset2 |           | Id              | Width |                       | Thick |
| 2          | 1          | Interior        | 19.04             | 50.96 | 19.04            | 30.03   | 2         | 4               | 5.00  | 0.074                 | 5.00  |
| 2          | 2          | Middle          | 9.52              | 60.48 | 9.52             | 30.03   | 2         | 4               | 5.00  | 0.074                 | 5.00  |
| 2          | 7          | Lt top corner   | 0.00              | 9.52  | 0.00             | 3.18    | 1         | 1               | 5.00  | 0.105                 | 5.00  |
| 2          | 8          | Rt top corner   | 60.48             | 70.00 | 0.00             | 3.18    | 3         | 1               | 5.00  | 0.074                 | 5.00  |
| 2          | 11         | Lt top cor gabl | 0.00              | 3.18  | 3.18             | 9.53    | 1         | 1               | 5.00  | 0.105                 | 5.00  |
| 2          | 12         | Rt top cor gabl | 66.82             | 70.00 | 3.18             | 9.53    | 3         | 1               | 5.00  | 0.074                 | 5.00  |
| 2          | 15         | Exterior        | 0.00              | 70.00 | 0.00             | 30.03   | 2         | 4               | 5.00  | 0.074                 | 5.00  |
| 3          | 1          | Interior        | 19.04             | 50.96 | 0.00             | 15.99   | 2         | 1               | 5.00  | 0.074                 | 5.00  |
| 3          | 2          | Middle          | 9.52              | 60.48 | 0.00             | 25.51   | 2         | 1               | 5.00  | 0.074                 | 5.00  |
| 3          | 9          | Rt bot corner   | 60.48             | 70.00 | 31.85            | 35.03   | 3         | 6               | 5.00  | 0.074                 | 5.00  |
| 3          | 10         | Lt bot corner   | 0.00              | 9.52  | 31.85            | 35.03   | 1         | 6               | 5.00  | 0.105                 | 5.00  |
| 3          | 13         | Rt bot cor gabl | 66.82             | 70.00 | 25.50            | 31.85   | 3         | 6               | 5.00  | 0.074                 | 5.00  |
| 3          | 14         | Lt bot cor gabl | 0.00              | 3.18  | 25.50            | 31.85   | 1         | 6               | 5.00  | 0.105                 | 5.00  |
| 3          | 15         | Exterior        | 0.00              | 70.00 | 0.00             | 35.03   | 2         | 6               | 5.00  | 0.074                 | 5.00  |

## PURLIN SCREW CHECK:

| Surf<br>Id | Zone<br>Id | Screw<br>Space | Wind<br>Suction<br>(psf ) | Load<br>(k ) | -----Limit(k )----- |                   |                  | Max<br>UC |
|------------|------------|----------------|---------------------------|--------------|---------------------|-------------------|------------------|-----------|
|            |            |                |                           |              | Purlin<br>Pullout   | Panel<br>Pullover | Screw<br>Tension |           |
| 2          | 1          | 0.95           | 12.48                     | 0.06         | 0.27                | 0.37              | 0.77             | 0.22      |
| 2          | 2          | 0.95           | 21.72                     | 0.10         | 0.27                | 0.37              | 0.77             | 0.38      |
| 2          | 7          | 0.95           | 39.06                     | 0.19         | 0.39                | 0.37              | 0.77             | 0.51      |
| 2          | 8          | 0.95           | 39.06                     | 0.19         | 0.27                | 0.37              | 0.77             | 0.68      |
| 2          | 11         | 0.95           | 39.06                     | 0.19         | 0.39                | 0.37              | 0.77             | 0.51      |
| 2          | 12         | 0.95           | 39.06                     | 0.19         | 0.27                | 0.37              | 0.77             | 0.68      |
| 2          | 15         | 0.95           | 28.70                     | 0.14         | 0.27                | 0.37              | 0.77             | 0.50      |
| 3          | 1          | 0.95           | 12.48                     | 0.06         | 0.27                | 0.37              | 0.77             | 0.22      |
| 3          | 2          | 0.95           | 21.72                     | 0.10         | 0.27                | 0.37              | 0.77             | 0.38      |
| 3          | 9          | 0.95           | 39.06                     | 0.19         | 0.27                | 0.37              | 0.77             | 0.68      |
| 3          | 10         | 0.95           | 39.06                     | 0.19         | 0.39                | 0.37              | 0.77             | 0.51      |
| 3          | 13         | 0.95           | 39.06                     | 0.19         | 0.27                | 0.37              | 0.77             | 0.68      |
| 3          | 14         | 0.95           | 39.06                     | 0.19         | 0.39                | 0.37              | 0.77             | 0.51      |
| 3          | 15         | 0.95           | 28.70                     | 0.14         | 0.27                | 0.37              | 0.77             | 0.50      |

.. No Warnings

```

*( 1)VERSION/UNITS:
*VERSION    Units(I/M)
'2.01'     'I'

```

```

*( 2)JOB IDENTIFICATION:
*   Job Id
'11 12

```

```

*( 3)DESIGN CODE:
*Design Steel_Code      ---Build---   Code      Seismic
* Code      Col'd      Country  Code   Year   Label      Zone
'WS'      'NAUS16'    '----'  'IBC ' '18'  'IBC 18 ' 'B '

```

```

*( 4)DESIGN CONSTANTS:
* ---Steel_Yield---   Stress   Strength_Factors
* C_Sec Z_Sec O_Sec  Ratio      Wind   Seismic
 55.0  55.0  55.0   1.03     1.0000  1.0000

```

```

*( 5)DEFLECTION LIMITS:
* -----Rafter-----      Girt   Panel   Part
* Live Wind Total  Column Wall   Wall   Wall
180.  180.    0.   180.   90.   60.   90.

```

```

*( 6)REPORTS:
*   Input  Column  Wall  Door  Wall  Cable
*   Echo   Rafter  Girt  Jamb  Panel Brace
' I'      'Y'     'Y'  'Y'  'Y'  'Y'

```

```

*( 7)BUILDING SHAPE:
*   Build      Build      L_Eave   R_Eave   Peak      L_Roof   No.
*   Width      Length     Height   Height   Offset    Slope    Wall
65.0000  70.0000  16.0833  15.8750  30.0000  0.500    8

```

```

*( 8)WALL OPTIONS:
*Wall Design Detail  -----Notch-----      Base_Type      Base_Trim
* Id  Option Option  Depth  Width  Ext  Parapet  Panel  Jamb  Panel  Jamb
 1  'NYYY' 'YYYY'  1.500  1.500  1.500  0.0000  'O'  'O'  'Y'  'Y'
 2  'NYYY' 'YYYY'  1.500  11.250  1.500  0.0000  'O'  'O'  'Y'  'Y'
 3  'NYYY' 'YYYY'  1.500  1.500  1.500  0.0000  'O'  'O'  'Y'  'Y'
 4  'NYYY' 'YYYY'  1.500  11.250  1.500  0.0000  'O'  'O'  'Y'  'Y'

```

```

*( 9)INTERIOR WALL OPTIONS:
*Wall Design Detail  ----Notch---   Base_Type      Base_Trim
* Id  Option Option  Depth  Width  Panel  Jamb  Panel  Jamb
 6  'NYYY' 'YYYY'  0.000  0.000  '-'  '-'  'N'  'N'
 7  'NYYY' 'YYYY'  0.000  0.000  '-'  '-'  'N'  'N'
 8  'NYYY' 'YYYY'  0.000  0.000  '-'  '-'  'N'  'N'

```

```

*(10)STEP ELEVATION:
*No.      Start      End      Base      Eave      Step      -Slope_Offset-
*Step     Start      End      Elev      Height    Type      Start      End
 1      0.0000  70.0000  0.0000  0.0000  '-'      0.0000  0.0000

```

```

*(11)HALL SYSTEM:
* No. Hall                                     -----Notch-----  -----Wall_Id
-----
*Hall  Id  Type  Orn  Opt  Width  Height  Locate  Offset  Length  Depth  Width  L  R  S
E
 0

```





\* (18) OPEN WALLS:

| *No.  | -Location- | --Bay_Id-- | Wall  | ---- | Type---- | Base | Full   |      |      |
|-------|------------|------------|-------|------|----------|------|--------|------|------|
| *Wall | Use        | Id         | Start | End  | Height   | Use  | Id Opt | Type | Load |
| 0     |            |            |       |      |          |      |        |      |      |

\* (19) COLUMNS:

| *Wall | No. | Col | Col  | Col | Col | Set   |
|-------|-----|-----|------|-----|-----|-------|
| * Id  | Col | Id  | Type | Rot | Opt | Depth |
| 1     | 14  | 1   | '-'  | 'R' | '-' | 6.000 |
|       |     | 2   | 'C'  | 'F' | '-' | 6.000 |
|       |     | 3   | 'C'  | 'F' | '-' | 6.000 |
|       |     | 4   | 'C'  | 'F' | '-' | 6.000 |
|       |     | 5   | 'C'  | 'F' | '-' | 6.000 |
|       |     | 6   | 'C'  | 'F' | '-' | 6.000 |
|       |     | 7   | 'C'  | 'F' | '-' | 6.000 |
|       |     | 8   | 'C'  | 'B' | '-' | 6.000 |
|       |     | 9   | 'C'  | 'B' | '-' | 6.000 |
|       |     | 10  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 11  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 12  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 13  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 14  | '-'  | 'R' | '-' | 6.000 |
| 2     | 5   | 15  | 'C'  | 'R' | '-' | 6.000 |
|       |     | 16  | 'C'  | 'L' | '-' | 6.000 |
|       |     | 17  | 'C'  | 'L' | '-' | 6.000 |
|       |     | 18  | 'C'  | 'L' | '-' | 6.000 |
|       |     | 19  | 'C'  | 'L' | '-' | 6.000 |
| 3     | 14  | 20  | '-'  | 'L' | '-' | 6.000 |
|       |     | 21  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 22  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 23  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 24  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 25  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 26  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 27  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 28  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 29  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 30  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 31  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 32  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 33  | '-'  | 'L' | '-' | 6.000 |
| 4     | 5   | 34  | 'C'  | 'L' | '-' | 6.000 |
|       |     | 35  | 'C'  | 'L' | '-' | 6.000 |
|       |     | 36  | 'C'  | 'L' | '-' | 6.000 |
|       |     | 37  | 'C'  | 'L' | '-' | 6.000 |
|       |     | 38  | 'C'  | 'R' | '-' | 6.000 |

\* (20) INTERIOR COLUMNS:

| *Wall | No. | Col | Col  | Col | Col | Set   |
|-------|-----|-----|------|-----|-----|-------|
| * Id  | Col | Id  | Type | Rot | Opt | Depth |
| 6     | 14  | 39  | '-'  | 'L' | '-' | 6.000 |
|       |     | 40  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 41  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 42  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 43  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 44  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 45  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 46  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 47  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 48  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 49  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 50  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 51  | 'C'  | 'B' | '-' | 6.000 |
|       |     | 52  | '-'  | 'L' | '-' | 6.000 |
| 7     | 4   | 53  | '-'  | 'F' | '-' | 6.000 |

|   |   |    |     |     |     |       |
|---|---|----|-----|-----|-----|-------|
|   |   | 54 | 'C' | 'L' | '-' | 6.000 |
|   |   | 55 | 'C' | 'L' | '-' | 6.000 |
|   |   | 56 | '-' | 'F' | '-' | 6.000 |
| 8 | 4 | 57 | '-' | 'F' | '-' | 6.000 |
|   |   | 58 | 'C' | 'L' | '-' | 6.000 |
|   |   | 59 | 'C' | 'L' | '-' | 6.000 |
|   |   | 60 | '-' | 'F' | '-' | 6.000 |

\* (21) ADDITIONAL COLUMNS:

| *No. | Col | Location | Col | Col    | Col    | Col  | Col | Set |       |
|------|-----|----------|-----|--------|--------|------|-----|-----|-------|
| *Col | Id  | Use      | Id  | Locate | Offset | Type | Rot | Opt | Depth |
| 0    |     |          |     |        |        |      |     |     |       |

\* (22) RAFTERS:

| *Wall No. | Raf | Raf | Raf     | Raf  | Raf | Set |       |
|-----------|-----|-----|---------|------|-----|-----|-------|
| * Id      | Raf | Id  | Offset  | Type | Rot | Opt | Depth |
| 1         | 0   |     |         |      |     |     |       |
| 2         | 3   | 1   | 0.0000  | 'O'  | '-' | '-' | 6.125 |
|           |     | 2   | 28.0000 | 'O'  | '-' | '-' | 6.125 |
|           |     | 3   | 56.0000 | 'O'  | '-' | '-' | 6.125 |
| 3         | 0   |     |         |      |     |     |       |
| 4         | 3   | 4   | 0.0000  | 'O'  | '-' | '-' | 6.125 |
|           |     | 5   | 14.0000 | 'O'  | '-' | '-' | 6.125 |
|           |     | 6   | 42.0000 | 'O'  | '-' | '-' | 6.125 |

\* (23) INTERIOR RAFTERS:

| *Wall No. | Raf | Raf | Raf    | Raf  | Raf | Set |       |
|-----------|-----|-----|--------|------|-----|-----|-------|
| * Id      | Raf | Id  | Offset | Type | Rot | Opt | Depth |
| 6         | 0   |     |        |      |     |     |       |
| 7         | 0   |     |        |      |     |     |       |
| 8         | 0   |     |        |      |     |     |       |

\* (24) ADDITIONAL RAFTERS:

| *No. | Raf | Location | Raf | -----Offset----- | Raf   | Raf | Raf  | Set |     |       |
|------|-----|----------|-----|------------------|-------|-----|------|-----|-----|-------|
| *Raf | Id  | Use      | Id  | Locate           | Start | End | Type | Rot | Opt | Depth |
| 0    |     |          |     |                  |       |     |      |     |     |       |

\* (25) GIRT LAYOUT:

| *No.  | Wall | Top  | Girt | Flange | Set   | Max   | Max_Unbr |         |
|-------|------|------|------|--------|-------|-------|----------|---------|
| *Wall | Id   | Type | Type | Opt    | Strap | Depth | Space    | Length  |
| 4     | 1    | 'CF' | '--' | '-'    | 'N'   | 6.000 | 10.0000  | 10.0000 |
|       | 2    | 'CF' | '--' | '-'    | 'N'   | 6.000 | 10.0000  | 10.0000 |
|       | 3    | 'CF' | '--' | '-'    | 'N'   | 6.000 | 10.0000  | 10.0000 |
|       | 4    | 'CF' | '--' | '-'    | 'N'   | 6.000 | 10.0000  | 10.0000 |

\* (26) GIRT LOCATION:

| * No. | Wall | Set | No.  | Girt                  |
|-------|------|-----|------|-----------------------|
| *Wall | Id   | Loc | Girt | Location              |
| 4     | 1    | 'Y' | 3    | 4.0000 8.0000 12.0000 |
|       | 2    | 'Y' | 3    | 4.0000 8.0000 12.0000 |
|       | 3    | 'Y' | 3    | 4.0000 8.0000 12.0000 |
|       | 4    | 'Y' | 3    | 4.0000 8.0000 12.0000 |

\* (27) ROOF PURLINS:

| * Purlin | Peak   | No.    | ---Purlin--- |     |
|----------|--------|--------|--------------|-----|
| * Type   | Space  | Purlin | Location     | Rot |
| 'ZB'     | 0.0000 | 12     | 5.0000       | 'N' |
|          |        |        | 10.0000      | 'N' |
|          |        |        | 15.0000      | 'N' |
|          |        |        | 20.0000      | 'N' |
|          |        |        | 25.0000      | 'N' |
|          |        |        | 30.0000      | 'N' |
|          |        |        | 35.0000      | 'Y' |

40.0000 'Y'  
 45.0000 'Y'  
 50.0000 'Y'  
 55.0000 'Y'  
 60.0000 'Y'

\*(28) EXTERIOR WALL PANEL:

| * Wall Id | Part     | Rot | Opt  | Screw | Color |
|-----------|----------|-----|------|-------|-------|
| 1         | 'CUSPANL | '-' | '--' | 'S--' | 'A1   |
| 2         | 'CUSPANL | '-' | '--' | 'S--' | 'A1   |
| 3         | 'CUSPANL | '-' | '--' | 'S--' | 'A1   |
| 4         | 'CUSPANL | '-' | '--' | 'S--' | 'A1   |

\*(29) INTERIOR WALL PANEL:

| * Wall Id | Part   | Rot | Opt  | Screw | Color |
|-----------|--------|-----|------|-------|-------|
| 6         | 'PBR29 | 'R' | '--' | 'S--' | 'GL   |
| 7         | 'PBR29 | 'R' | '--' | 'S--' | 'GL   |
| 8         | 'PBR29 | 'R' | '--' | 'S--' | 'GL   |

\*(30) ROOF PANEL:

| * Panel Size | Panel Opt | Screw Type | Use | Type | Clip  | Standing Seam Type | Clamp |
|--------------|-----------|------------|-----|------|-------|--------------------|-------|
| 'PBR26       | '--'      | 'S--'      | 'N' | '3U' | 3.000 | '-----'            | 'N'   |

\*(31) ADDITIONAL PANELS:

| * No.     | -Location- | Offset | Panel | Screw        | Base      |
|-----------|------------|--------|-------|--------------|-----------|
| Panel Use | Id         | Start  | End   | Rot Opt Type | Color Opt |
| 0         |            |        |       |              |           |

\*(32) EXTERIOR WIND FRAMING:

| * Wall Id | Panel Shear | Brace Type | Opt | Wall No. Dead | Bay |
|-----------|-------------|------------|-----|---------------|-----|
| 1         | 'Y'         | 'N'        | '-' | 2.00          | 0   |
| 2         | 'Y'         | 'N'        | '-' | 2.00          | 0   |
| 3         | 'Y'         | 'N'        | '-' | 2.00          | 0   |
| 4         | 'Y'         | 'N'        | '-' | 2.00          | 0   |
| 5         | 'Y'         | 'N'        | '-' | 2.50          | 0   |

\*(33) INTERIOR WIND FRAMING:

| * Panel Shear | Brace Type | Opt | Wall No. Dead | Bay |
|---------------|------------|-----|---------------|-----|
| 'Y'           | 'N'        | '-' | 2.00          | 0   |
| 'Y'           | 'N'        | '-' | 2.00          | 0   |

\*(34) BASIC LOADS:

| * Dead Load | Collat Load | Live Load | Snow Load | Rain Load | Basic Wind | ---Deflection---                    | Wind Load | Seis Load |
|-------------|-------------|-----------|-----------|-----------|------------|-------------------------------------|-----------|-----------|
|             |             |           |           |           |            | Load_Ratio                          | Factor    | Factor    |
| 2.0         | 0.5         | 20.0      | 13.4      | 0.0       | 19.2       | Snow 1.00<br>Wind 0.54<br>Seis 1.00 | 0.60      | 1.00      |

\*(35) EDGE ZONE:

| * Zone Width | Girt | Panel | Col/Jamb | Brace Zone Width |
|--------------|------|-------|----------|------------------|
| 6.433        | 1.07 | 1.00  | 1.07     | 6.433            |

\*(36) WIND PRESSURE/SUCTION:

| * Wind Press | Wind Suct |                |
|--------------|-----------|----------------|
| 16.8         | -18.5     | .. Ext Column  |
| 16.8         | -18.5     | .. Girt/Header |
| 16.8         | -18.5     | .. Jamb        |
| 20.8         | -27.7     | .. Ext Panel   |







|    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| 27 | 1.00 | 1.00 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.75 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 28 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 29 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 30 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 31 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 32 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 33 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 34 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 35 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 36 | 1.03 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 37 | 1.03 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0 |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 38 | 1.02 | 1.02 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 39 | 1.02 | 1.02 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0 |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 40 | 1.02 | 1.02 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 41 | 1.02 | 1.02 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0 |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 42 | 1.02 | 1.02 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 43 | 1.02 | 1.02 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0 |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 44 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 45 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0 |
| 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 46 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| 1  | 1.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 47 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0  |
| 1  | 0.75 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 48 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.45 | 0  |
| 1  | 0.75 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 49 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| 2  | 1.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 50 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| 2  | 0.75 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 51 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0  |
| 2  | 0.75 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 52 | 1.01 | 1.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| 2  | 0.75 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |

\* (40) AUXILIARY LOADS:

| * No. | Aux | Aux       | No._Add | Add_Load |
|-------|-----|-----------|---------|----------|
| * Aux | Id  | Name      | Comb    | Id Coef  |
| 2     | 1   | 'MIN_SNOW | ' 2     | 1 1.00   |
|       |     |           |         | 2 1.00   |
|       | 2   | 'UNB_SL   | ' 4     | 3 1.00   |
|       |     |           |         | 4 0.40   |
|       |     |           |         | 5 1.00   |
|       |     |           |         | 6 0.37   |

\*(41) ADDITIONAL LOADS:

| *No. | Add | Surf | Basic    | Load | Load | F      |        | D      |         | ---Surface--- |        |
|------|-----|------|----------|------|------|--------|--------|--------|---------|---------------|--------|
| *Add | Id  | Id   | Load     | Type | Orn  | W1     | W2     | D1     | D2      | Start         | End    |
| 6    | 1   | 2    | 'U_SNOW' | 'D'  | 'T'  | -16.00 | -16.00 | 0.0000 | 30.0260 | 0.000         | 70.000 |
|      | 2   | 3    | 'U_SNOW' | 'D'  | 'T'  | -16.00 | -16.00 | 0.0000 | 35.0304 | 0.000         | 70.000 |
|      | 3   | 2    | 'U_SNOW' | 'D'  | 'T'  | -13.44 | -13.44 | 0.0000 | 30.0260 | 0.000         | 70.000 |
|      | 4   | 2    | 'U_SNOW' | 'D'  | 'T'  | -13.44 | -13.44 | 9.0934 | 30.0260 | 0.000         | 70.000 |
|      | 5   | 3    | 'U_SNOW' | 'D'  | 'T'  | -13.44 | -13.44 | 0.0000 | 35.0304 | 0.000         | 70.000 |
|      | 6   | 3    | 'U_SNOW' | 'D'  | 'T'  | -13.44 | -13.44 | 0.0000 | 19.0065 | 0.000         | 70.000 |

\*(42) TRIM STYLES:

| *No.  | --Location-- | Jamb |      |
|-------|--------------|------|------|
| *Trim | Type         | Id   | Trim |
| 14    | 'EXT'        | 1    | '--' |
|       | 'EXT'        | 2    | '--' |
|       | 'EXT'        | 3    | '--' |
|       | 'EXT'        | 4    | '--' |
|       | 'INT'        | 0    | '--' |
|       | 'HALL'       | 0    | '--' |
|       | 'RECE'       | 0    | '--' |
|       | 'XTND'       | 0    | '--' |
|       | 'STEP'       | 0    | '--' |
|       | 'JAMB'       | 0    | '--' |
|       | 'PARA'       | 0    | '--' |
|       | 'FIRE'       | 0    | '--' |
|       | 'CLIM'       | 0    | '--' |
|       | 'LINE'       | 0    | '--' |

\*(43) PANEL SCREWS:

| *No.  | Zone   | Part | Dia   | Limit | Washer | -----Spacing----- |         |         |
|-------|--------|------|-------|-------|--------|-------------------|---------|---------|
| *Zone | Zone   | Part | Dia   | Limit | Dia    | Spacing           | Spacing | Spacing |
| 2     | 'INT'  | '#29 | 0.209 | 2.900 | 0.500  | 12.000            | 6.000   | 0.000   |
|       | 'EDGE' | '#29 | 0.209 | 2.900 | 0.500  | 12.000            | 6.000   | 0.000   |

\*AUXILIARY LOAD DESCRIPTIONS:

| *Aux | Id | Description          |
|------|----|----------------------|
|      | 1  | Minimum snow load    |
|      | 2  | Unbalanced snow load |

\*ADDITIONAL LOAD DESCRIPTIONS:

| *Add | Id | Description                    |
|------|----|--------------------------------|
|      | 1  | Minimum snow load surface 2    |
|      | 2  | Minimum snow load surface 3    |
|      | 3  | Unbalanced snow load surface 2 |
|      | 4  | Unbalanced snow load surface 2 |
|      | 5  | Unbalanced snow load surface 3 |
|      | 6  | Unbalanced snow load surface 3 |

\* Code file used was EW\_IBC.18N Version 4.0



STRUCTURAL CODE:

Design Basis : WS  
Cold Formed Steel : NAUS16

BUILDING CODE:

Wind Code : IBC 18  
Seismic Zone : B

MODULUS OF ELASTICITY

Cold Formed Steel : 29500 (ksi )

ROOF LAYOUT:

| System Id | Type | Roof_Extents Start | Roof_Extents End | Roof Length | Panel Part |
|-----------|------|--------------------|------------------|-------------|------------|
| 1         | Long | 0.0                | 70.0             | 70.0        | PBR26      |

PANEL SHEAR:

| System Id | Type | ---Offset--- |      | -Shear(k )- |      | Panel_Shear (lb/ft) |      |       |
|-----------|------|--------------|------|-------------|------|---------------------|------|-------|
|           |      | Start        | End  | Wind        | Seis | Wind                | Seis | Limit |
| 1         | Long | 0.0          | 5.0  | 0.27        | 0.16 | 3.8                 | 2.3  | 100.0 |
|           |      | 5.0          | 10.0 | 0.86        | 0.27 | 12.2                | 3.9  | 100.0 |
|           |      | 10.0         | 15.0 | 1.22        | 0.39 | 17.4                | 5.6  | 100.0 |
|           |      | 15.0         | 20.0 | 1.58        | 0.51 | 22.6                | 7.2  | 100.0 |
|           |      | 20.0         | 25.0 | 1.95        | 0.62 | 27.9                | 8.9  | 100.0 |
|           |      | 25.0         | 30.0 | 2.33        | 0.74 | 33.3                | 10.5 | 100.0 |
|           |      | 30.0         | 35.0 | 2.64        | 0.85 | 37.7                | 12.2 | 100.0 |
|           |      | 35.0         | 40.0 | 2.26        | 0.74 | 32.3                | 10.5 | 100.0 |
|           |      | 40.0         | 45.0 | 1.89        | 0.62 | 27.0                | 8.8  | 100.0 |
|           |      | 45.0         | 50.0 | 1.52        | 0.50 | 21.8                | 7.2  | 100.0 |
|           |      | 50.0         | 55.0 | 1.16        | 0.39 | 16.6                | 5.5  | 100.0 |
|           |      | 55.0         | 60.0 | 0.81        | 0.27 | 11.5                | 3.9  | 100.0 |
|           |      | 60.0         | 65.0 | 0.26        | 0.16 | 3.8                 | 2.2  | 100.0 |

PANEL SHEAR:

| Wall   | Offset | Wall_Extents |      | Base Length | Panel Part | -Force(k)- |      | Panel_Shear(lb/ft) |      |       |
|--------|--------|--------------|------|-------------|------------|------------|------|--------------------|------|-------|
|        |        | Start        | End  |             |            | Wind       | Seis | Wind               | Seis | Limit |
| B_SW   | 0.0    | 0.0          | 70.0 | Open        |            |            |      |                    |      |       |
| * Long | 30.0   | 0.0          | 70.0 | 28.0        | PBR29      | 5.34       | 1.75 | 190.8              | 62.5 | 100.0 |
| F_SW   | 65.0   | 0.0          | 70.0 | Open        |            |            |      |                    |      |       |
| L_EW   | 0.0    | 0.0          | 65.0 | 65.0        | CUSPANL    | 0.60       | 0.23 | 9.2                | 3.5  | 50.0  |
| Tran   | 14.0   | 0.0          | 65.0 | 65.0        | PBR29      | 1.20       | 0.35 | 18.4               | 5.4  | 100.0 |
| Tran   | 28.0   | 0.0          | 65.0 | 65.0        | PBR29      | 1.80       | 0.46 | 27.6               | 7.1  | 100.0 |
| Tran   | 56.0   | 0.0          | 65.0 | 65.0        | PBR29      | 1.80       | 0.46 | 27.6               | 7.1  | 100.0 |
| R_EW   | 70.0   | 0.0          | 65.0 | 65.0        | CUSPANL    | 0.60       | 0.23 | 9.2                | 3.5  | 50.0  |

\*WRN(WWM-401) Panel Shear > Limit

## WALL LAYOUT:

| Wall Id | Orn | Load Width |
|---------|-----|------------|
| 1       | T   | 7.00       |

## MEMBER LAYOUT:

| Id     | Locate (ft) | Part   | ---Web (in)--- |       | -Flange (in)- |       | Length (ft) | Weight (lb) | ----Max_Load---- |      |         |
|--------|-------------|--------|----------------|-------|---------------|-------|-------------|-------------|------------------|------|---------|
|        |             |        | Depth          | Thick | Width         | Thick |             |             | Id               | UC   | Report  |
| Col2   | 5.0         | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.3        | 35.8        | 10               | 0.78 | Deflect |
| Col3   | 10.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.5        | 36.2        | 10               | 0.77 | Deflect |
| Col4   | 15.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.7        | 36.7        | 10               | 0.79 | Deflect |
| Col5   | 20.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.0        | 37.1        | 10               | 0.82 | Deflect |
| Col6   | 25.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.2        | 37.6        | 10               | 0.86 | Deflect |
| Col7   | 30.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.3        | 37.9        | 1                | 0.10 | Mom+Axl |
| Col8   | 35.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.2        | 37.6        | 10               | 0.86 | Deflect |
| Col9   | 40.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.0        | 37.1        | 10               | 0.82 | Deflect |
| Col10  | 45.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.7        | 36.7        | 10               | 0.79 | Deflect |
| Col11  | 50.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.5        | 36.2        | 10               | 0.77 | Deflect |
| Col12  | 55.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.3        | 35.8        | 10               | 0.74 | Deflect |
| Col13  | 60.0        | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.1        | 35.3        | 10               | 0.75 | Deflect |
| Total= |             |        |                |       |               |       |             | 440.0       |                  |      |         |

## DESIGN ACTIONS/STRENGTH:

| Id   | Load Id | -Axial (k )- |       | -Shear (k )- |       | Moment (f-k ) |       | -----Unity_Check----- |       |        |        |
|------|---------|--------------|-------|--------------|-------|---------------|-------|-----------------------|-------|--------|--------|
|      |         | Calc         | Limit | Calc         | Limit | Calc          | Limit | Axial                 | Shear | Moment | Shear+ |
| Col2 | 1       | 0.83         | 7.45  | 0.00         | 3.32  | 0.00          | 2.65  | 0.11                  | 0.00  | 0.11   | 0.00   |
| Col2 | 2       | 0.13         | 7.45  | 0.00         | 3.32  | 0.00          | 2.65  | 0.02                  | 0.00  | 0.02   | 0.00   |
| Col2 | 3       | 0.60         | 7.45  | 0.00         | 3.32  | 0.00          | 2.65  | 0.08                  | 0.00  | 0.08   | 0.00   |
| Col2 | 4       | 0.60         | 7.45  | 0.00         | 3.32  | 0.00          | 2.65  | 0.08                  | 0.00  | 0.08   | 0.00   |
| Col2 | 5       | 0.66         | 7.45  | 0.00         | 3.32  | 0.00          | 2.65  | 0.09                  | 0.00  | 0.09   | 0.00   |
| Col2 | 6       | 0.48         | 7.45  | 0.00         | 3.32  | 0.00          | 2.65  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col2 | 7       | 0.48         | 7.45  | 0.00         | 3.32  | 0.00          | 2.65  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col2 | 8       | -0.35        | 21.18 | 0.41         | 3.32  | -1.68         | 2.65  | 0.02                  | 0.12  | 0.62   | 0.00   |
| Col2 | 9       | -0.15        | 21.18 | 0.41         | 3.32  | -1.68         | 2.65  | 0.01                  | 0.12  | 0.63   | 0.00   |
| Col2 | 10      | -0.35        | 21.18 | -0.48        | 3.32  | 1.95          | 2.65  | 0.02                  | 0.14  | 0.72   | 0.00   |
| Col2 | 11      | -0.15        | 21.18 | -0.48        | 3.32  | 1.95          | 2.65  | 0.01                  | 0.14  | 0.73   | 0.00   |
| Col2 | 12      | -0.35        | 21.18 | -0.48        | 3.32  | 1.95          | 2.65  | 0.02                  | 0.14  | 0.72   | 0.00   |
| Col2 | 13      | -0.15        | 21.18 | -0.48        | 3.32  | 1.95          | 2.65  | 0.01                  | 0.14  | 0.73   | 0.00   |
| Col2 | 14      | -0.20        | 21.18 | -0.48        | 3.32  | 1.95          | 2.65  | 0.01                  | 0.14  | 0.73   | 0.00   |
| Col2 | 15      | -0.01        | 21.18 | -0.48        | 3.32  | 1.95          | 2.65  | 0.00                  | 0.14  | 0.74   | 0.00   |
| Col2 | 16      | 0.42         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.06                  | 0.11  | 0.61   | 0.00   |
| Col2 | 17      | 0.57         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.08                  | 0.11  | 0.63   | 0.00   |
| Col2 | 18      | 0.31         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.04                  | 0.11  | 0.60   | 0.00   |
| Col2 | 19      | 0.46         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.06                  | 0.11  | 0.61   | 0.00   |
| Col2 | 20      | 0.25         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.03                  | 0.11  | 0.59   | 0.00   |
| Col2 | 21      | 0.39         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.05                  | 0.11  | 0.61   | 0.00   |
| Col2 | 22      | 0.14         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.02                  | 0.11  | 0.57   | 0.00   |
| Col2 | 23      | 0.28         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.04                  | 0.11  | 0.59   | 0.00   |
| Col2 | 24      | 0.25         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.03                  | 0.11  | 0.59   | 0.00   |
| Col2 | 25      | 0.39         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.05                  | 0.11  | 0.61   | 0.00   |
| Col2 | 26      | 0.14         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.02                  | 0.11  | 0.57   | 0.00   |
| Col2 | 27      | 0.28         | 7.45  | -0.36        | 3.32  | 1.46          | 2.65  | 0.04                  | 0.11  | 0.59   | 0.00   |
| Col2 | 28      | -0.37        | 21.18 | 0.41         | 3.32  | -1.68         | 2.65  | 0.02                  | 0.12  | 0.62   | 0.00   |
| Col2 | 29      | -0.18        | 21.18 | 0.41         | 3.32  | -1.68         | 2.65  | 0.01                  | 0.12  | 0.63   | 0.00   |

|      |    |       |       |       |      |       |      |      |      |      |      |
|------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col2 | 30 | -0.37 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col2 | 31 | -0.18 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col2 | 32 | -0.37 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col2 | 33 | -0.18 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col2 | 34 | -0.23 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col2 | 35 | -0.03 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.74 | 0.00 |
| Col2 | 36 | 0.14  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col2 | 37 | 0.14  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col2 | 38 | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col2 | 39 | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col2 | 40 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col2 | 41 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col2 | 42 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col2 | 43 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col2 | 44 | 0.08  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col2 | 45 | 0.08  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col2 | 46 | 0.69  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col2 | 47 | 0.32  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col2 | 48 | 0.46  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col2 | 49 | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col2 | 50 | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col2 | 51 | 0.09  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col2 | 52 | 0.09  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col2 | 53 | 0.61  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col2 | 54 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col2 | 55 | 0.49  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col2 | 56 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col3 | 1  | 0.83  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col3 | 2  | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col3 | 3  | 0.60  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col3 | 4  | 0.60  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col3 | 5  | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col3 | 6  | 0.48  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col3 | 7  | 0.48  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col3 | 8  | -0.34 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.02 | 0.13 | 0.64 | 0.00 |
| Col3 | 9  | -0.15 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col3 | 10 | -0.34 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col3 | 11 | -0.15 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col3 | 12 | -0.34 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col3 | 13 | -0.15 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col3 | 14 | -0.20 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col3 | 15 | -0.01 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col3 | 16 | 0.42  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col3 | 17 | 0.57  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.08 | 0.10 | 0.62 | 0.00 |
| Col3 | 18 | 0.31  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col3 | 19 | 0.46  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col3 | 20 | 0.25  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.03 | 0.10 | 0.57 | 0.00 |
| Col3 | 21 | 0.39  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.05 | 0.10 | 0.59 | 0.00 |
| Col3 | 22 | 0.14  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.02 | 0.10 | 0.56 | 0.00 |
| Col3 | 23 | 0.28  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col3 | 24 | 0.25  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.03 | 0.10 | 0.57 | 0.00 |
| Col3 | 25 | 0.39  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.05 | 0.10 | 0.59 | 0.00 |
| Col3 | 26 | 0.14  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.02 | 0.10 | 0.56 | 0.00 |
| Col3 | 27 | 0.28  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col3 | 28 | -0.37 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.02 | 0.13 | 0.63 | 0.00 |
| Col3 | 29 | -0.18 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col3 | 30 | -0.37 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col3 | 31 | -0.18 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col3 | 32 | -0.37 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col3 | 33 | -0.18 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col3 | 34 | -0.23 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col3 | 35 | -0.03 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col3 | 36 | 0.14  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col3 | 37 | 0.14  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col3 | 38 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |

|      |    |       |       |       |      |       |      |      |      |      |      |
|------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col3 | 39 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col3 | 40 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col3 | 41 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col3 | 42 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col3 | 43 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col3 | 44 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col3 | 45 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col3 | 46 | 0.69  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col3 | 47 | 0.32  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col3 | 48 | 0.46  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col3 | 49 | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col3 | 50 | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col3 | 51 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col3 | 52 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col3 | 53 | 0.73  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col3 | 54 | 0.58  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col3 | 55 | 0.58  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.08 | 0.10 | 0.62 | 0.00 |
| Col3 | 56 | 0.58  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col4 | 1  | 0.83  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col4 | 2  | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col4 | 3  | 0.60  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col4 | 4  | 0.60  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col4 | 5  | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col4 | 6  | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col4 | 7  | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col4 | 8  | -0.34 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col4 | 9  | -0.15 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col4 | 10 | -0.34 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col4 | 11 | -0.15 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col4 | 12 | -0.34 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col4 | 13 | -0.15 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col4 | 14 | -0.20 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col4 | 15 | -0.01 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.74 | 0.00 |
| Col4 | 16 | 0.42  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col4 | 17 | 0.57  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.08 | 0.11 | 0.63 | 0.00 |
| Col4 | 18 | 0.31  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col4 | 19 | 0.46  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col4 | 20 | 0.25  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col4 | 21 | 0.39  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col4 | 22 | 0.14  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col4 | 23 | 0.29  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col4 | 24 | 0.25  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col4 | 25 | 0.39  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col4 | 26 | 0.14  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col4 | 27 | 0.29  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col4 | 28 | -0.37 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col4 | 29 | -0.18 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col4 | 30 | -0.37 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col4 | 31 | -0.18 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col4 | 32 | -0.37 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col4 | 33 | -0.18 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col4 | 34 | -0.23 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.72 | 0.00 |
| Col4 | 35 | -0.03 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.73 | 0.00 |
| Col4 | 36 | 0.14  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col4 | 37 | 0.14  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col4 | 38 | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col4 | 39 | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col4 | 40 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col4 | 41 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col4 | 42 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col4 | 43 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col4 | 44 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col4 | 45 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col4 | 46 | 0.69  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col4 | 47 | 0.32  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.05 | 0.11 | 0.60 | 0.00 |

|      |    |       |       |       |      |       |      |      |      |      |      |
|------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col4 | 48 | 0.46  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col4 | 49 | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col4 | 50 | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col4 | 51 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col4 | 52 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col4 | 53 | 0.79  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col4 | 54 | 0.63  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col4 | 55 | 0.63  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.09 | 0.11 | 0.64 | 0.00 |
| Col4 | 56 | 0.63  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col5 | 1  | 0.83  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col5 | 2  | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col5 | 3  | 0.60  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col5 | 4  | 0.60  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col5 | 5  | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col5 | 6  | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col5 | 7  | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col5 | 8  | -0.34 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.02 | 0.13 | 0.67 | 0.00 |
| Col5 | 9  | -0.15 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.01 | 0.13 | 0.68 | 0.00 |
| Col5 | 10 | -0.34 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col5 | 11 | -0.15 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col5 | 12 | -0.34 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col5 | 13 | -0.15 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col5 | 14 | -0.20 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.74 | 0.00 |
| Col5 | 15 | 0.00  | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.00 | 0.14 | 0.75 | 0.00 |
| Col5 | 16 | 0.42  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.63 | 0.00 |
| Col5 | 17 | 0.57  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.08 | 0.11 | 0.65 | 0.00 |
| Col5 | 18 | 0.31  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col5 | 19 | 0.46  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.07 | 0.11 | 0.63 | 0.00 |
| Col5 | 20 | 0.25  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col5 | 21 | 0.39  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col5 | 22 | 0.14  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.02 | 0.11 | 0.59 | 0.00 |
| Col5 | 23 | 0.29  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.61 | 0.00 |
| Col5 | 24 | 0.25  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col5 | 25 | 0.39  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col5 | 26 | 0.14  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.02 | 0.11 | 0.59 | 0.00 |
| Col5 | 27 | 0.29  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.61 | 0.00 |
| Col5 | 28 | -0.37 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.02 | 0.13 | 0.67 | 0.00 |
| Col5 | 29 | -0.18 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.01 | 0.13 | 0.68 | 0.00 |
| Col5 | 30 | -0.37 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col5 | 31 | -0.18 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col5 | 32 | -0.37 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col5 | 33 | -0.18 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col5 | 34 | -0.23 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.74 | 0.00 |
| Col5 | 35 | -0.03 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.00 | 0.14 | 0.75 | 0.00 |
| Col5 | 36 | 0.14  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col5 | 37 | 0.14  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col5 | 38 | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col5 | 39 | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col5 | 40 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col5 | 41 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col5 | 42 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col5 | 43 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col5 | 44 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col5 | 45 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col5 | 46 | 0.69  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col5 | 47 | 0.32  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col5 | 48 | 0.46  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.07 | 0.11 | 0.63 | 0.00 |
| Col5 | 49 | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col5 | 50 | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col5 | 51 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col5 | 52 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col5 | 53 | 0.79  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col5 | 54 | 0.63  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col5 | 55 | 0.63  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.09 | 0.11 | 0.66 | 0.00 |
| Col5 | 56 | 0.63  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |

|      |    |       |       |       |      |       |      |      |      |      |      |
|------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col6 | 1  | 0.83  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col6 | 2  | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col6 | 3  | 0.60  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col6 | 4  | 0.60  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col6 | 5  | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col6 | 6  | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 7  | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 8  | -0.34 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.02 | 0.13 | 0.69 | 0.00 |
| Col6 | 9  | -0.15 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.01 | 0.13 | 0.69 | 0.00 |
| Col6 | 10 | -0.34 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.76 | 0.00 |
| Col6 | 11 | -0.15 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.77 | 0.00 |
| Col6 | 12 | -0.34 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.76 | 0.00 |
| Col6 | 13 | -0.15 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.77 | 0.00 |
| Col6 | 14 | -0.20 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col6 | 15 | 0.00  | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.00 | 0.14 | 0.77 | 0.00 |
| Col6 | 16 | 0.42  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col6 | 17 | 0.57  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.09 | 0.11 | 0.67 | 0.00 |
| Col6 | 18 | 0.31  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.05 | 0.11 | 0.63 | 0.00 |
| Col6 | 19 | 0.46  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.07 | 0.11 | 0.65 | 0.00 |
| Col6 | 20 | 0.25  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col6 | 21 | 0.40  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col6 | 22 | 0.14  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.02 | 0.11 | 0.60 | 0.00 |
| Col6 | 23 | 0.29  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col6 | 24 | 0.25  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col6 | 25 | 0.40  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col6 | 26 | 0.14  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.02 | 0.11 | 0.60 | 0.00 |
| Col6 | 27 | 0.29  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col6 | 28 | -0.37 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.02 | 0.13 | 0.68 | 0.00 |
| Col6 | 29 | -0.18 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.01 | 0.13 | 0.69 | 0.00 |
| Col6 | 30 | -0.37 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.75 | 0.00 |
| Col6 | 31 | -0.18 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col6 | 32 | -0.37 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.75 | 0.00 |
| Col6 | 33 | -0.18 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col6 | 34 | -0.23 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col6 | 35 | -0.03 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.00 | 0.14 | 0.77 | 0.00 |
| Col6 | 36 | 0.14  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col6 | 37 | 0.14  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col6 | 38 | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col6 | 39 | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col6 | 40 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 41 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 42 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 43 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 44 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col6 | 45 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col6 | 46 | 0.69  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col6 | 47 | 0.32  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.05 | 0.11 | 0.63 | 0.00 |
| Col6 | 48 | 0.46  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.07 | 0.11 | 0.65 | 0.00 |
| Col6 | 49 | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col6 | 50 | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col6 | 51 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col6 | 52 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col6 | 53 | 0.79  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col6 | 54 | 0.63  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col6 | 55 | 0.63  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.10 | 0.11 | 0.68 | 0.00 |
| Col6 | 56 | 0.63  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col7 | 1  | 0.83  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col7 | 2  | 0.13  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 3  | 0.60  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 4  | 0.60  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 5  | 0.66  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col7 | 6  | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col7 | 7  | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col7 | 8  | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 9  | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|      |    |       |       |       |      |       |      |      |      |      |      |
|------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col7 | 10 | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 11 | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 12 | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 13 | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 14 | -0.10 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col7 | 15 | -0.10 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col7 | 16 | 0.50  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col7 | 17 | 0.50  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col7 | 18 | 0.39  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col7 | 19 | 0.39  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col7 | 20 | 0.32  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col7 | 21 | 0.32  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col7 | 22 | 0.22  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col7 | 23 | 0.22  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col7 | 24 | 0.32  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col7 | 25 | 0.32  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col7 | 26 | 0.22  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col7 | 27 | 0.22  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col7 | 28 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 29 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 30 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 31 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 32 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 33 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 34 | -0.13 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 35 | -0.13 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 36 | 0.14  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 37 | 0.14  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 38 | 0.66  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col7 | 39 | 0.66  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col7 | 40 | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col7 | 41 | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col7 | 42 | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col7 | 43 | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col7 | 44 | 0.09  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 45 | 0.09  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 46 | 0.68  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col7 | 47 | 0.38  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col7 | 48 | 0.38  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col7 | 49 | 0.13  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 50 | 0.13  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 51 | 0.09  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 52 | 0.09  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 53 | 0.77  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col7 | 54 | 0.61  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 55 | 0.61  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 56 | 0.61  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 1  | 0.83  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col8 | 2  | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 3  | 0.60  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col8 | 4  | 0.60  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col8 | 5  | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col8 | 6  | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 7  | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 8  | -0.15 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.01 | 0.13 | 0.69 | 0.00 |
| Col8 | 9  | -0.34 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.02 | 0.13 | 0.69 | 0.00 |
| Col8 | 10 | -0.15 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.77 | 0.00 |
| Col8 | 11 | -0.34 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.76 | 0.00 |
| Col8 | 12 | -0.15 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.77 | 0.00 |
| Col8 | 13 | -0.34 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.76 | 0.00 |
| Col8 | 14 | 0.00  | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.00 | 0.14 | 0.77 | 0.00 |
| Col8 | 15 | -0.20 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col8 | 16 | 0.57  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.09 | 0.11 | 0.67 | 0.00 |
| Col8 | 17 | 0.42  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col8 | 18 | 0.46  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.07 | 0.11 | 0.65 | 0.00 |



|      |    |       |       |       |      |       |      |      |      |      |      |
|------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col8 | 19 | 0.31  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.05 | 0.11 | 0.63 | 0.00 |
| Col8 | 20 | 0.40  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col8 | 21 | 0.25  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col8 | 22 | 0.29  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col8 | 23 | 0.14  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.02 | 0.11 | 0.60 | 0.00 |
| Col8 | 24 | 0.40  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col8 | 25 | 0.25  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col8 | 26 | 0.29  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col8 | 27 | 0.14  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.02 | 0.11 | 0.60 | 0.00 |
| Col8 | 28 | -0.18 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.01 | 0.13 | 0.69 | 0.00 |
| Col8 | 29 | -0.37 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.02 | 0.13 | 0.68 | 0.00 |
| Col8 | 30 | -0.18 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col8 | 31 | -0.37 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.75 | 0.00 |
| Col8 | 32 | -0.18 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col8 | 33 | -0.37 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.75 | 0.00 |
| Col8 | 34 | -0.03 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.00 | 0.14 | 0.77 | 0.00 |
| Col8 | 35 | -0.23 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col8 | 36 | 0.14  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 37 | 0.14  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 38 | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col8 | 39 | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col8 | 40 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 41 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 42 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 43 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 44 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col8 | 45 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col8 | 46 | 0.69  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col8 | 47 | 0.46  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.07 | 0.11 | 0.65 | 0.00 |
| Col8 | 48 | 0.32  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.05 | 0.11 | 0.63 | 0.00 |
| Col8 | 49 | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 50 | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 51 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col8 | 52 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col8 | 53 | 0.78  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col8 | 54 | 0.62  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col8 | 55 | 0.62  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.09 | 0.11 | 0.67 | 0.00 |
| Col8 | 56 | 0.62  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col9 | 1  | 0.83  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col9 | 2  | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col9 | 3  | 0.60  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col9 | 4  | 0.60  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col9 | 5  | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col9 | 6  | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col9 | 7  | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col9 | 8  | -0.15 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.01 | 0.13 | 0.68 | 0.00 |
| Col9 | 9  | -0.34 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.02 | 0.13 | 0.67 | 0.00 |
| Col9 | 10 | -0.15 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col9 | 11 | -0.34 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col9 | 12 | -0.15 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col9 | 13 | -0.34 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col9 | 14 | 0.00  | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.00 | 0.14 | 0.75 | 0.00 |
| Col9 | 15 | -0.20 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.74 | 0.00 |
| Col9 | 16 | 0.57  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.08 | 0.11 | 0.65 | 0.00 |
| Col9 | 17 | 0.42  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.63 | 0.00 |
| Col9 | 18 | 0.46  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.07 | 0.11 | 0.63 | 0.00 |
| Col9 | 19 | 0.31  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col9 | 20 | 0.39  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col9 | 21 | 0.25  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col9 | 22 | 0.29  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.61 | 0.00 |
| Col9 | 23 | 0.14  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.02 | 0.11 | 0.59 | 0.00 |
| Col9 | 24 | 0.39  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col9 | 25 | 0.25  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col9 | 26 | 0.29  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.61 | 0.00 |
| Col9 | 27 | 0.14  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.02 | 0.11 | 0.59 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col9  | 28 | -0.18 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.01 | 0.13 | 0.68 | 0.00 |
| Col9  | 29 | -0.37 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.02 | 0.13 | 0.67 | 0.00 |
| Col9  | 30 | -0.18 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col9  | 31 | -0.37 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col9  | 32 | -0.18 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col9  | 33 | -0.37 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col9  | 34 | -0.03 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.00 | 0.14 | 0.75 | 0.00 |
| Col9  | 35 | -0.23 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.74 | 0.00 |
| Col9  | 36 | 0.14  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col9  | 37 | 0.14  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col9  | 38 | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col9  | 39 | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col9  | 40 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col9  | 41 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col9  | 42 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col9  | 43 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col9  | 44 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col9  | 45 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col9  | 46 | 0.69  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col9  | 47 | 0.46  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.07 | 0.11 | 0.63 | 0.00 |
| Col9  | 48 | 0.32  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col9  | 49 | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col9  | 50 | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col9  | 51 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col9  | 52 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col9  | 53 | 0.78  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col9  | 54 | 0.62  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col9  | 55 | 0.62  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.09 | 0.11 | 0.66 | 0.00 |
| Col9  | 56 | 0.62  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col10 | 1  | 0.83  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col10 | 2  | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col10 | 3  | 0.60  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col10 | 4  | 0.60  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col10 | 5  | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col10 | 6  | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col10 | 7  | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col10 | 8  | -0.15 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col10 | 9  | -0.34 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col10 | 10 | -0.15 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col10 | 11 | -0.34 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col10 | 12 | -0.15 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col10 | 13 | -0.34 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col10 | 14 | -0.01 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.74 | 0.00 |
| Col10 | 15 | -0.20 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col10 | 16 | 0.57  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.08 | 0.11 | 0.63 | 0.00 |
| Col10 | 17 | 0.42  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col10 | 18 | 0.46  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col10 | 19 | 0.31  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col10 | 20 | 0.39  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col10 | 21 | 0.25  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col10 | 22 | 0.29  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col10 | 23 | 0.14  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col10 | 24 | 0.39  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col10 | 25 | 0.25  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col10 | 26 | 0.29  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col10 | 27 | 0.14  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col10 | 28 | -0.18 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col10 | 29 | -0.37 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col10 | 30 | -0.18 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col10 | 31 | -0.37 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col10 | 32 | -0.18 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col10 | 33 | -0.37 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col10 | 34 | -0.03 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.73 | 0.00 |
| Col10 | 35 | -0.23 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.72 | 0.00 |
| Col10 | 36 | 0.14  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col10 | 37 | 0.14  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col10 | 38 | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col10 | 39 | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col10 | 40 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col10 | 41 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col10 | 42 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col10 | 43 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col10 | 44 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col10 | 45 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col10 | 46 | 0.69  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col10 | 47 | 0.46  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col10 | 48 | 0.32  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.05 | 0.11 | 0.60 | 0.00 |
| Col10 | 49 | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col10 | 50 | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col10 | 51 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col10 | 52 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col10 | 53 | 0.77  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col10 | 54 | 0.61  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col10 | 55 | 0.61  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.09 | 0.11 | 0.64 | 0.00 |
| Col10 | 56 | 0.62  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col11 | 1  | 0.83  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col11 | 2  | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col11 | 3  | 0.60  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col11 | 4  | 0.60  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col11 | 5  | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col11 | 6  | 0.48  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col11 | 7  | 0.48  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col11 | 8  | -0.15 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col11 | 9  | -0.34 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.02 | 0.13 | 0.64 | 0.00 |
| Col11 | 10 | -0.15 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col11 | 11 | -0.34 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col11 | 12 | -0.15 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col11 | 13 | -0.34 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col11 | 14 | -0.01 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col11 | 15 | -0.20 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col11 | 16 | 0.57  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.08 | 0.10 | 0.62 | 0.00 |
| Col11 | 17 | 0.42  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col11 | 18 | 0.46  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col11 | 19 | 0.31  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col11 | 20 | 0.39  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.05 | 0.10 | 0.59 | 0.00 |
| Col11 | 21 | 0.25  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.03 | 0.10 | 0.57 | 0.00 |
| Col11 | 22 | 0.28  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col11 | 23 | 0.14  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.02 | 0.10 | 0.56 | 0.00 |
| Col11 | 24 | 0.39  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.05 | 0.10 | 0.59 | 0.00 |
| Col11 | 25 | 0.25  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.03 | 0.10 | 0.57 | 0.00 |
| Col11 | 26 | 0.28  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col11 | 27 | 0.14  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.02 | 0.10 | 0.56 | 0.00 |
| Col11 | 28 | -0.18 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col11 | 29 | -0.37 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.02 | 0.13 | 0.63 | 0.00 |
| Col11 | 30 | -0.18 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col11 | 31 | -0.37 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col11 | 32 | -0.18 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col11 | 33 | -0.37 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col11 | 34 | -0.03 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col11 | 35 | -0.23 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col11 | 36 | 0.14  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col11 | 37 | 0.14  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col11 | 38 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col11 | 39 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col11 | 40 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col11 | 41 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col11 | 42 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col11 | 43 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col11 | 44 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col11 | 45 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col11 | 46 | 0.69  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col11 | 47 | 0.46  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col11 | 48 | 0.32  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col11 | 49 | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col11 | 50 | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col11 | 51 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col11 | 52 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col11 | 53 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col11 | 54 | 0.53  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col11 | 55 | 0.53  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.07 | 0.10 | 0.61 | 0.00 |
| Col11 | 56 | 0.53  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col12 | 1  | 0.83  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col12 | 2  | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col12 | 3  | 0.60  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col12 | 4  | 0.60  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col12 | 5  | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col12 | 6  | 0.48  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col12 | 7  | 0.48  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col12 | 8  | -0.15 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.01 | 0.12 | 0.63 | 0.00 |
| Col12 | 9  | -0.35 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.02 | 0.12 | 0.62 | 0.00 |
| Col12 | 10 | -0.15 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col12 | 11 | -0.35 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.02 | 0.14 | 0.68 | 0.00 |
| Col12 | 12 | -0.15 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col12 | 13 | -0.35 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.02 | 0.14 | 0.68 | 0.00 |
| Col12 | 14 | -0.01 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.00 | 0.14 | 0.70 | 0.00 |
| Col12 | 15 | -0.20 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col12 | 16 | 0.57  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.08 | 0.10 | 0.60 | 0.00 |
| Col12 | 17 | 0.42  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.06 | 0.10 | 0.58 | 0.00 |
| Col12 | 18 | 0.46  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.06 | 0.10 | 0.59 | 0.00 |
| Col12 | 19 | 0.31  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.57 | 0.00 |
| Col12 | 20 | 0.39  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.05 | 0.10 | 0.58 | 0.00 |
| Col12 | 21 | 0.25  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.03 | 0.10 | 0.56 | 0.00 |
| Col12 | 22 | 0.28  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.56 | 0.00 |
| Col12 | 23 | 0.14  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.02 | 0.10 | 0.54 | 0.00 |
| Col12 | 24 | 0.39  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.05 | 0.10 | 0.58 | 0.00 |
| Col12 | 25 | 0.25  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.03 | 0.10 | 0.56 | 0.00 |
| Col12 | 26 | 0.28  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.56 | 0.00 |
| Col12 | 27 | 0.14  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.02 | 0.10 | 0.54 | 0.00 |
| Col12 | 28 | -0.18 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.01 | 0.12 | 0.63 | 0.00 |
| Col12 | 29 | -0.37 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.02 | 0.12 | 0.62 | 0.00 |
| Col12 | 30 | -0.18 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col12 | 31 | -0.37 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.02 | 0.14 | 0.68 | 0.00 |
| Col12 | 32 | -0.18 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col12 | 33 | -0.37 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.02 | 0.14 | 0.68 | 0.00 |
| Col12 | 34 | -0.03 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.00 | 0.14 | 0.70 | 0.00 |
| Col12 | 35 | -0.23 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col12 | 36 | 0.14  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col12 | 37 | 0.14  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col12 | 38 | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col12 | 39 | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col12 | 40 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col12 | 41 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col12 | 42 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col12 | 43 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col12 | 44 | 0.08  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 45 | 0.08  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 46 | 0.69  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col12 | 47 | 0.46  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.06 | 0.10 | 0.59 | 0.00 |
| Col12 | 48 | 0.32  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.57 | 0.00 |
| Col12 | 49 | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col12 | 50 | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col12 | 51 | 0.09  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 52 | 0.09  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 53 | 0.60  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col12 | 54 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col12 | 55 | 0.49  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.07 | 0.10 | 0.59 | 0.00 |
| Col12 | 56 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col13 | 1  | 0.83  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col13 | 2  | 0.13  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 3  | 0.60  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col13 | 4  | 0.60  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col13 | 5  | 0.66  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col13 | 6  | 0.48  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 7  | 0.48  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 8  | -0.15 | 21.18 | 0.41  | 3.32 | -1.64 | 2.65 | 0.01 | 0.12 | 0.61 | 0.00 |
| Col13 | 9  | -0.35 | 21.18 | 0.41  | 3.32 | -1.64 | 2.65 | 0.02 | 0.12 | 0.60 | 0.00 |
| Col13 | 10 | -0.15 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col13 | 11 | -0.35 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col13 | 12 | -0.15 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col13 | 13 | -0.35 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col13 | 14 | -0.01 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col13 | 15 | -0.20 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col13 | 16 | 0.57  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.07 | 0.11 | 0.61 | 0.00 |
| Col13 | 17 | 0.42  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.05 | 0.11 | 0.59 | 0.00 |
| Col13 | 18 | 0.46  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.06 | 0.11 | 0.60 | 0.00 |
| Col13 | 19 | 0.31  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.04 | 0.11 | 0.58 | 0.00 |
| Col13 | 20 | 0.39  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.05 | 0.11 | 0.59 | 0.00 |
| Col13 | 21 | 0.25  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.03 | 0.11 | 0.57 | 0.00 |
| Col13 | 22 | 0.28  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.04 | 0.11 | 0.58 | 0.00 |
| Col13 | 23 | 0.14  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.02 | 0.11 | 0.56 | 0.00 |
| Col13 | 24 | 0.39  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.05 | 0.11 | 0.59 | 0.00 |
| Col13 | 25 | 0.25  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.03 | 0.11 | 0.57 | 0.00 |
| Col13 | 26 | 0.28  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.04 | 0.11 | 0.58 | 0.00 |
| Col13 | 27 | 0.14  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.02 | 0.11 | 0.56 | 0.00 |
| Col13 | 28 | -0.18 | 21.18 | 0.41  | 3.32 | -1.64 | 2.65 | 0.01 | 0.12 | 0.61 | 0.00 |
| Col13 | 29 | -0.37 | 21.18 | 0.41  | 3.32 | -1.64 | 2.65 | 0.02 | 0.12 | 0.60 | 0.00 |
| Col13 | 30 | -0.18 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col13 | 31 | -0.37 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col13 | 32 | -0.18 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col13 | 33 | -0.37 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col13 | 34 | -0.03 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col13 | 35 | -0.23 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col13 | 36 | 0.13  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 37 | 0.13  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 38 | 0.66  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col13 | 39 | 0.66  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col13 | 40 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 41 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 42 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 43 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 44 | 0.08  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 45 | 0.08  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 46 | 0.69  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col13 | 47 | 0.46  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.06 | 0.11 | 0.60 | 0.00 |
| Col13 | 48 | 0.32  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.04 | 0.11 | 0.58 | 0.00 |
| Col13 | 49 | 0.13  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 50 | 0.13  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 51 | 0.09  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 52 | 0.09  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 53 | 0.60  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col13 | 54 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 55 | 0.49  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.06 | 0.11 | 0.60 | 0.00 |
| Col13 | 56 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |

COLUMN REACTIONS:

| Id   | Load |           | In_Plane<br>Horz (k ) | Out_Plane<br>Horz (k ) |
|------|------|-----------|-----------------------|------------------------|
|      | Id   | Vert (k ) |                       |                        |
| Col2 | 1    | 0.83      | 0.00                  | 0.00                   |

|      |    |       |      |       |
|------|----|-------|------|-------|
| Col2 | 2  | 0.13  | 0.00 | 0.00  |
| Col2 | 3  | 0.60  | 0.00 | 0.00  |
| Col2 | 4  | 0.60  | 0.00 | 0.00  |
| Col2 | 5  | 0.66  | 0.00 | 0.00  |
| Col2 | 6  | 0.48  | 0.00 | 0.00  |
| Col2 | 7  | 0.48  | 0.00 | 0.00  |
| Col2 | 8  | -0.35 | 0.00 | -0.41 |
| Col2 | 9  | -0.15 | 0.00 | -0.41 |
| Col2 | 10 | -0.35 | 0.00 | 0.48  |
| Col2 | 11 | -0.15 | 0.00 | 0.48  |
| Col2 | 12 | -0.35 | 0.00 | 0.48  |
| Col2 | 13 | -0.15 | 0.00 | 0.48  |
| Col2 | 14 | -0.20 | 0.00 | 0.48  |
| Col2 | 15 | -0.01 | 0.00 | 0.48  |
| Col2 | 16 | 0.42  | 0.00 | 0.36  |
| Col2 | 17 | 0.57  | 0.00 | 0.36  |
| Col2 | 18 | 0.31  | 0.00 | 0.36  |
| Col2 | 19 | 0.46  | 0.00 | 0.36  |
| Col2 | 20 | 0.25  | 0.00 | 0.36  |
| Col2 | 21 | 0.39  | 0.00 | 0.36  |
| Col2 | 22 | 0.14  | 0.00 | 0.36  |
| Col2 | 23 | 0.28  | 0.00 | 0.36  |
| Col2 | 24 | 0.25  | 0.00 | 0.36  |
| Col2 | 25 | 0.39  | 0.00 | 0.36  |
| Col2 | 26 | 0.14  | 0.00 | 0.36  |
| Col2 | 27 | 0.28  | 0.00 | 0.36  |
| Col2 | 28 | -0.37 | 0.00 | -0.41 |
| Col2 | 29 | -0.18 | 0.00 | -0.41 |
| Col2 | 30 | -0.37 | 0.00 | 0.48  |
| Col2 | 31 | -0.18 | 0.00 | 0.48  |
| Col2 | 32 | -0.37 | 0.00 | 0.48  |
| Col2 | 33 | -0.18 | 0.00 | 0.48  |
| Col2 | 34 | -0.23 | 0.00 | 0.48  |
| Col2 | 35 | -0.03 | 0.00 | 0.48  |
| Col2 | 36 | 0.14  | 0.00 | 0.00  |
| Col2 | 37 | 0.14  | 0.00 | 0.00  |
| Col2 | 38 | 0.66  | 0.00 | 0.00  |
| Col2 | 39 | 0.66  | 0.00 | 0.00  |
| Col2 | 40 | 0.49  | 0.00 | 0.00  |
| Col2 | 41 | 0.49  | 0.00 | 0.00  |
| Col2 | 42 | 0.49  | 0.00 | 0.00  |
| Col2 | 43 | 0.49  | 0.00 | 0.00  |
| Col2 | 44 | 0.08  | 0.00 | 0.00  |
| Col2 | 45 | 0.08  | 0.00 | 0.00  |
| Col2 | 46 | 0.69  | 0.00 | 0.00  |
| Col2 | 47 | 0.32  | 0.00 | 0.36  |
| Col2 | 48 | 0.46  | 0.00 | 0.36  |
| Col2 | 49 | 0.13  | 0.00 | 0.00  |
| Col2 | 50 | 0.13  | 0.00 | 0.00  |
| Col2 | 51 | 0.09  | 0.00 | 0.00  |
| Col2 | 52 | 0.09  | 0.00 | 0.00  |
| Col2 | 53 | 0.61  | 0.00 | 0.00  |
| Col2 | 54 | 0.49  | 0.00 | 0.00  |
| Col2 | 55 | 0.49  | 0.00 | 0.36  |
| Col2 | 56 | 0.49  | 0.00 | 0.00  |
| Col3 | 1  | 0.83  | 0.00 | 0.00  |
| Col3 | 2  | 0.13  | 0.00 | 0.00  |
| Col3 | 3  | 0.60  | 0.00 | 0.00  |
| Col3 | 4  | 0.60  | 0.00 | 0.00  |
| Col3 | 5  | 0.66  | 0.00 | 0.00  |
| Col3 | 6  | 0.48  | 0.00 | 0.00  |
| Col3 | 7  | 0.48  | 0.00 | 0.00  |
| Col3 | 8  | -0.34 | 0.00 | -0.42 |
| Col3 | 9  | -0.15 | 0.00 | -0.42 |
| Col3 | 10 | -0.34 | 0.00 | 0.46  |

|      |    |       |      |       |
|------|----|-------|------|-------|
| Col3 | 11 | -0.15 | 0.00 | 0.46  |
| Col3 | 12 | -0.34 | 0.00 | 0.46  |
| Col3 | 13 | -0.15 | 0.00 | 0.46  |
| Col3 | 14 | -0.20 | 0.00 | 0.46  |
| Col3 | 15 | -0.01 | 0.00 | 0.46  |
| Col3 | 16 | 0.42  | 0.00 | 0.34  |
| Col3 | 17 | 0.57  | 0.00 | 0.34  |
| Col3 | 18 | 0.31  | 0.00 | 0.34  |
| Col3 | 19 | 0.46  | 0.00 | 0.34  |
| Col3 | 20 | 0.25  | 0.00 | 0.34  |
| Col3 | 21 | 0.39  | 0.00 | 0.34  |
| Col3 | 22 | 0.14  | 0.00 | 0.34  |
| Col3 | 23 | 0.28  | 0.00 | 0.34  |
| Col3 | 24 | 0.25  | 0.00 | 0.34  |
| Col3 | 25 | 0.39  | 0.00 | 0.34  |
| Col3 | 26 | 0.14  | 0.00 | 0.34  |
| Col3 | 27 | 0.28  | 0.00 | 0.34  |
| Col3 | 28 | -0.37 | 0.00 | -0.42 |
| Col3 | 29 | -0.18 | 0.00 | -0.42 |
| Col3 | 30 | -0.37 | 0.00 | 0.46  |
| Col3 | 31 | -0.18 | 0.00 | 0.46  |
| Col3 | 32 | -0.37 | 0.00 | 0.46  |
| Col3 | 33 | -0.18 | 0.00 | 0.46  |
| Col3 | 34 | -0.23 | 0.00 | 0.46  |
| Col3 | 35 | -0.03 | 0.00 | 0.46  |
| Col3 | 36 | 0.14  | 0.00 | 0.00  |
| Col3 | 37 | 0.14  | 0.00 | 0.00  |
| Col3 | 38 | 0.66  | 0.00 | 0.00  |
| Col3 | 39 | 0.66  | 0.00 | 0.00  |
| Col3 | 40 | 0.49  | 0.00 | 0.00  |
| Col3 | 41 | 0.49  | 0.00 | 0.00  |
| Col3 | 42 | 0.49  | 0.00 | 0.00  |
| Col3 | 43 | 0.49  | 0.00 | 0.00  |
| Col3 | 44 | 0.09  | 0.00 | 0.00  |
| Col3 | 45 | 0.09  | 0.00 | 0.00  |
| Col3 | 46 | 0.69  | 0.00 | 0.00  |
| Col3 | 47 | 0.32  | 0.00 | 0.34  |
| Col3 | 48 | 0.46  | 0.00 | 0.34  |
| Col3 | 49 | 0.13  | 0.00 | 0.00  |
| Col3 | 50 | 0.13  | 0.00 | 0.00  |
| Col3 | 51 | 0.09  | 0.00 | 0.00  |
| Col3 | 52 | 0.09  | 0.00 | 0.00  |
| Col3 | 53 | 0.73  | 0.00 | 0.00  |
| Col3 | 54 | 0.58  | 0.00 | 0.00  |
| Col3 | 55 | 0.58  | 0.00 | 0.34  |
| Col3 | 56 | 0.58  | 0.00 | 0.00  |
| Col4 | 1  | 0.83  | 0.00 | 0.00  |
| Col4 | 2  | 0.13  | 0.00 | 0.00  |
| Col4 | 3  | 0.60  | 0.00 | 0.00  |
| Col4 | 4  | 0.60  | 0.00 | 0.00  |
| Col4 | 5  | 0.66  | 0.00 | 0.00  |
| Col4 | 6  | 0.49  | 0.00 | 0.00  |
| Col4 | 7  | 0.49  | 0.00 | 0.00  |
| Col4 | 8  | -0.34 | 0.00 | -0.42 |
| Col4 | 9  | -0.15 | 0.00 | -0.42 |
| Col4 | 10 | -0.34 | 0.00 | 0.46  |
| Col4 | 11 | -0.15 | 0.00 | 0.46  |
| Col4 | 12 | -0.34 | 0.00 | 0.46  |
| Col4 | 13 | -0.15 | 0.00 | 0.46  |
| Col4 | 14 | -0.20 | 0.00 | 0.46  |
| Col4 | 15 | -0.01 | 0.00 | 0.46  |
| Col4 | 16 | 0.42  | 0.00 | 0.35  |
| Col4 | 17 | 0.57  | 0.00 | 0.35  |
| Col4 | 18 | 0.31  | 0.00 | 0.35  |
| Col4 | 19 | 0.46  | 0.00 | 0.35  |

|      |    |       |      |       |
|------|----|-------|------|-------|
| Col4 | 20 | 0.25  | 0.00 | 0.35  |
| Col4 | 21 | 0.39  | 0.00 | 0.35  |
| Col4 | 22 | 0.14  | 0.00 | 0.35  |
| Col4 | 23 | 0.29  | 0.00 | 0.35  |
| Col4 | 24 | 0.25  | 0.00 | 0.35  |
| Col4 | 25 | 0.39  | 0.00 | 0.35  |
| Col4 | 26 | 0.14  | 0.00 | 0.35  |
| Col4 | 27 | 0.29  | 0.00 | 0.35  |
| Col4 | 28 | -0.37 | 0.00 | -0.42 |
| Col4 | 29 | -0.18 | 0.00 | -0.42 |
| Col4 | 30 | -0.37 | 0.00 | 0.46  |
| Col4 | 31 | -0.18 | 0.00 | 0.46  |
| Col4 | 32 | -0.37 | 0.00 | 0.46  |
| Col4 | 33 | -0.18 | 0.00 | 0.46  |
| Col4 | 34 | -0.23 | 0.00 | 0.46  |
| Col4 | 35 | -0.03 | 0.00 | 0.46  |
| Col4 | 36 | 0.14  | 0.00 | 0.00  |
| Col4 | 37 | 0.14  | 0.00 | 0.00  |
| Col4 | 38 | 0.66  | 0.00 | 0.00  |
| Col4 | 39 | 0.66  | 0.00 | 0.00  |
| Col4 | 40 | 0.49  | 0.00 | 0.00  |
| Col4 | 41 | 0.49  | 0.00 | 0.00  |
| Col4 | 42 | 0.49  | 0.00 | 0.00  |
| Col4 | 43 | 0.49  | 0.00 | 0.00  |
| Col4 | 44 | 0.09  | 0.00 | 0.00  |
| Col4 | 45 | 0.09  | 0.00 | 0.00  |
| Col4 | 46 | 0.69  | 0.00 | 0.00  |
| Col4 | 47 | 0.32  | 0.00 | 0.35  |
| Col4 | 48 | 0.46  | 0.00 | 0.35  |
| Col4 | 49 | 0.13  | 0.00 | 0.00  |
| Col4 | 50 | 0.13  | 0.00 | 0.00  |
| Col4 | 51 | 0.09  | 0.00 | 0.00  |
| Col4 | 52 | 0.09  | 0.00 | 0.00  |
| Col4 | 53 | 0.79  | 0.00 | 0.00  |
| Col4 | 54 | 0.63  | 0.00 | 0.00  |
| Col4 | 55 | 0.63  | 0.00 | 0.35  |
| Col4 | 56 | 0.63  | 0.00 | 0.00  |
| Col5 | 1  | 0.83  | 0.00 | 0.00  |
| Col5 | 2  | 0.13  | 0.00 | 0.00  |
| Col5 | 3  | 0.60  | 0.00 | 0.00  |
| Col5 | 4  | 0.60  | 0.00 | 0.00  |
| Col5 | 5  | 0.66  | 0.00 | 0.00  |
| Col5 | 6  | 0.49  | 0.00 | 0.00  |
| Col5 | 7  | 0.49  | 0.00 | 0.00  |
| Col5 | 8  | -0.34 | 0.00 | -0.43 |
| Col5 | 9  | -0.15 | 0.00 | -0.43 |
| Col5 | 10 | -0.34 | 0.00 | 0.47  |
| Col5 | 11 | -0.15 | 0.00 | 0.47  |
| Col5 | 12 | -0.34 | 0.00 | 0.47  |
| Col5 | 13 | -0.15 | 0.00 | 0.47  |
| Col5 | 14 | -0.20 | 0.00 | 0.47  |
| Col5 | 15 | 0.00  | 0.00 | 0.47  |
| Col5 | 16 | 0.42  | 0.00 | 0.35  |
| Col5 | 17 | 0.57  | 0.00 | 0.35  |
| Col5 | 18 | 0.31  | 0.00 | 0.35  |
| Col5 | 19 | 0.46  | 0.00 | 0.35  |
| Col5 | 20 | 0.25  | 0.00 | 0.35  |
| Col5 | 21 | 0.39  | 0.00 | 0.35  |
| Col5 | 22 | 0.14  | 0.00 | 0.35  |
| Col5 | 23 | 0.29  | 0.00 | 0.35  |
| Col5 | 24 | 0.25  | 0.00 | 0.35  |
| Col5 | 25 | 0.39  | 0.00 | 0.35  |
| Col5 | 26 | 0.14  | 0.00 | 0.35  |
| Col5 | 27 | 0.29  | 0.00 | 0.35  |
| Col5 | 28 | -0.37 | 0.00 | -0.43 |



|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col15 | 29 | -0.18 | 0.00 | -0.43 |
| Col15 | 30 | -0.37 | 0.00 | 0.47  |
| Col15 | 31 | -0.18 | 0.00 | 0.47  |
| Col15 | 32 | -0.37 | 0.00 | 0.47  |
| Col15 | 33 | -0.18 | 0.00 | 0.47  |
| Col15 | 34 | -0.23 | 0.00 | 0.47  |
| Col15 | 35 | -0.03 | 0.00 | 0.47  |
| Col15 | 36 | 0.14  | 0.00 | 0.00  |
| Col15 | 37 | 0.14  | 0.00 | 0.00  |
| Col15 | 38 | 0.66  | 0.00 | 0.00  |
| Col15 | 39 | 0.66  | 0.00 | 0.00  |
| Col15 | 40 | 0.49  | 0.00 | 0.00  |
| Col15 | 41 | 0.49  | 0.00 | 0.00  |
| Col15 | 42 | 0.49  | 0.00 | 0.00  |
| Col15 | 43 | 0.49  | 0.00 | 0.00  |
| Col15 | 44 | 0.09  | 0.00 | 0.00  |
| Col15 | 45 | 0.09  | 0.00 | 0.00  |
| Col15 | 46 | 0.69  | 0.00 | 0.00  |
| Col15 | 47 | 0.32  | 0.00 | 0.35  |
| Col15 | 48 | 0.46  | 0.00 | 0.35  |
| Col15 | 49 | 0.13  | 0.00 | 0.00  |
| Col15 | 50 | 0.13  | 0.00 | 0.00  |
| Col15 | 51 | 0.09  | 0.00 | 0.00  |
| Col15 | 52 | 0.09  | 0.00 | 0.00  |
| Col15 | 53 | 0.79  | 0.00 | 0.00  |
| Col15 | 54 | 0.63  | 0.00 | 0.00  |
| Col15 | 55 | 0.63  | 0.00 | 0.35  |
| Col15 | 56 | 0.63  | 0.00 | 0.00  |
| Col16 | 1  | 0.83  | 0.00 | 0.00  |
| Col16 | 2  | 0.13  | 0.00 | 0.00  |
| Col16 | 3  | 0.60  | 0.00 | 0.00  |
| Col16 | 4  | 0.60  | 0.00 | 0.00  |
| Col16 | 5  | 0.66  | 0.00 | 0.00  |
| Col16 | 6  | 0.49  | 0.00 | 0.00  |
| Col16 | 7  | 0.49  | 0.00 | 0.00  |
| Col16 | 8  | -0.34 | 0.00 | -0.43 |
| Col16 | 9  | -0.15 | 0.00 | -0.43 |
| Col16 | 10 | -0.34 | 0.00 | 0.48  |
| Col16 | 11 | -0.15 | 0.00 | 0.48  |
| Col16 | 12 | -0.34 | 0.00 | 0.48  |
| Col16 | 13 | -0.15 | 0.00 | 0.48  |
| Col16 | 14 | -0.20 | 0.00 | 0.48  |
| Col16 | 15 | 0.00  | 0.00 | 0.48  |
| Col16 | 16 | 0.42  | 0.00 | 0.36  |
| Col16 | 17 | 0.57  | 0.00 | 0.36  |
| Col16 | 18 | 0.31  | 0.00 | 0.36  |
| Col16 | 19 | 0.46  | 0.00 | 0.36  |
| Col16 | 20 | 0.25  | 0.00 | 0.36  |
| Col16 | 21 | 0.40  | 0.00 | 0.36  |
| Col16 | 22 | 0.14  | 0.00 | 0.36  |
| Col16 | 23 | 0.29  | 0.00 | 0.36  |
| Col16 | 24 | 0.25  | 0.00 | 0.36  |
| Col16 | 25 | 0.40  | 0.00 | 0.36  |
| Col16 | 26 | 0.14  | 0.00 | 0.36  |
| Col16 | 27 | 0.29  | 0.00 | 0.36  |
| Col16 | 28 | -0.37 | 0.00 | -0.43 |
| Col16 | 29 | -0.18 | 0.00 | -0.43 |
| Col16 | 30 | -0.37 | 0.00 | 0.48  |
| Col16 | 31 | -0.18 | 0.00 | 0.48  |
| Col16 | 32 | -0.37 | 0.00 | 0.48  |
| Col16 | 33 | -0.18 | 0.00 | 0.48  |
| Col16 | 34 | -0.23 | 0.00 | 0.48  |
| Col16 | 35 | -0.03 | 0.00 | 0.48  |
| Col16 | 36 | 0.14  | 0.00 | 0.00  |
| Col16 | 37 | 0.14  | 0.00 | 0.00  |

|      |    |       |      |      |
|------|----|-------|------|------|
| Col6 | 38 | 0.66  | 0.00 | 0.00 |
| Col6 | 39 | 0.66  | 0.00 | 0.00 |
| Col6 | 40 | 0.49  | 0.00 | 0.00 |
| Col6 | 41 | 0.49  | 0.00 | 0.00 |
| Col6 | 42 | 0.49  | 0.00 | 0.00 |
| Col6 | 43 | 0.49  | 0.00 | 0.00 |
| Col6 | 44 | 0.09  | 0.00 | 0.00 |
| Col6 | 45 | 0.09  | 0.00 | 0.00 |
| Col6 | 46 | 0.69  | 0.00 | 0.00 |
| Col6 | 47 | 0.32  | 0.00 | 0.36 |
| Col6 | 48 | 0.46  | 0.00 | 0.36 |
| Col6 | 49 | 0.13  | 0.00 | 0.00 |
| Col6 | 50 | 0.13  | 0.00 | 0.00 |
| Col6 | 51 | 0.09  | 0.00 | 0.00 |
| Col6 | 52 | 0.09  | 0.00 | 0.00 |
| Col6 | 53 | 0.79  | 0.00 | 0.00 |
| Col6 | 54 | 0.63  | 0.00 | 0.00 |
| Col6 | 55 | 0.63  | 0.00 | 0.36 |
| Col6 | 56 | 0.63  | 0.00 | 0.00 |
| Col7 | 1  | 0.83  | 0.00 | 0.00 |
| Col7 | 2  | 0.13  | 0.00 | 0.00 |
| Col7 | 3  | 0.60  | 0.00 | 0.00 |
| Col7 | 4  | 0.60  | 0.00 | 0.00 |
| Col7 | 5  | 0.66  | 0.00 | 0.00 |
| Col7 | 6  | 0.49  | 0.00 | 0.00 |
| Col7 | 7  | 0.49  | 0.00 | 0.00 |
| Col7 | 8  | -0.24 | 0.00 | 0.00 |
| Col7 | 9  | -0.24 | 0.00 | 0.00 |
| Col7 | 10 | -0.24 | 0.00 | 0.00 |
| Col7 | 11 | -0.24 | 0.00 | 0.00 |
| Col7 | 12 | -0.24 | 0.00 | 0.00 |
| Col7 | 13 | -0.24 | 0.00 | 0.00 |
| Col7 | 14 | -0.10 | 0.00 | 0.00 |
| Col7 | 15 | -0.10 | 0.00 | 0.00 |
| Col7 | 16 | 0.50  | 0.00 | 0.00 |
| Col7 | 17 | 0.50  | 0.00 | 0.00 |
| Col7 | 18 | 0.39  | 0.00 | 0.00 |
| Col7 | 19 | 0.39  | 0.00 | 0.00 |
| Col7 | 20 | 0.32  | 0.00 | 0.00 |
| Col7 | 21 | 0.32  | 0.00 | 0.00 |
| Col7 | 22 | 0.22  | 0.00 | 0.00 |
| Col7 | 23 | 0.22  | 0.00 | 0.00 |
| Col7 | 24 | 0.32  | 0.00 | 0.00 |
| Col7 | 25 | 0.32  | 0.00 | 0.00 |
| Col7 | 26 | 0.22  | 0.00 | 0.00 |
| Col7 | 27 | 0.22  | 0.00 | 0.00 |
| Col7 | 28 | -0.27 | 0.00 | 0.00 |
| Col7 | 29 | -0.27 | 0.00 | 0.00 |
| Col7 | 30 | -0.27 | 0.00 | 0.00 |
| Col7 | 31 | -0.27 | 0.00 | 0.00 |
| Col7 | 32 | -0.27 | 0.00 | 0.00 |
| Col7 | 33 | -0.27 | 0.00 | 0.00 |
| Col7 | 34 | -0.13 | 0.00 | 0.00 |
| Col7 | 35 | -0.13 | 0.00 | 0.00 |
| Col7 | 36 | 0.14  | 0.00 | 0.00 |
| Col7 | 37 | 0.14  | 0.00 | 0.00 |
| Col7 | 38 | 0.66  | 0.00 | 0.00 |
| Col7 | 39 | 0.66  | 0.00 | 0.00 |
| Col7 | 40 | 0.49  | 0.00 | 0.00 |
| Col7 | 41 | 0.49  | 0.00 | 0.00 |
| Col7 | 42 | 0.49  | 0.00 | 0.00 |
| Col7 | 43 | 0.49  | 0.00 | 0.00 |
| Col7 | 44 | 0.09  | 0.00 | 0.00 |
| Col7 | 45 | 0.09  | 0.00 | 0.00 |
| Col7 | 46 | 0.68  | 0.00 | 0.00 |

|      |    |       |      |       |
|------|----|-------|------|-------|
| Col7 | 47 | 0.38  | 0.00 | 0.00  |
| Col7 | 48 | 0.38  | 0.00 | 0.00  |
| Col7 | 49 | 0.13  | 0.00 | 0.00  |
| Col7 | 50 | 0.13  | 0.00 | 0.00  |
| Col7 | 51 | 0.09  | 0.00 | 0.00  |
| Col7 | 52 | 0.09  | 0.00 | 0.00  |
| Col7 | 53 | 0.77  | 0.00 | 0.00  |
| Col7 | 54 | 0.61  | 0.00 | 0.00  |
| Col7 | 55 | 0.61  | 0.00 | 0.00  |
| Col7 | 56 | 0.61  | 0.00 | 0.00  |
| Col8 | 1  | 0.83  | 0.00 | 0.00  |
| Col8 | 2  | 0.13  | 0.00 | 0.00  |
| Col8 | 3  | 0.60  | 0.00 | 0.00  |
| Col8 | 4  | 0.60  | 0.00 | 0.00  |
| Col8 | 5  | 0.66  | 0.00 | 0.00  |
| Col8 | 6  | 0.49  | 0.00 | 0.00  |
| Col8 | 7  | 0.49  | 0.00 | 0.00  |
| Col8 | 8  | -0.15 | 0.00 | -0.43 |
| Col8 | 9  | -0.34 | 0.00 | -0.43 |
| Col8 | 10 | -0.15 | 0.00 | 0.48  |
| Col8 | 11 | -0.34 | 0.00 | 0.48  |
| Col8 | 12 | -0.15 | 0.00 | 0.48  |
| Col8 | 13 | -0.34 | 0.00 | 0.48  |
| Col8 | 14 | 0.00  | 0.00 | 0.48  |
| Col8 | 15 | -0.20 | 0.00 | 0.48  |
| Col8 | 16 | 0.57  | 0.00 | 0.36  |
| Col8 | 17 | 0.42  | 0.00 | 0.36  |
| Col8 | 18 | 0.46  | 0.00 | 0.36  |
| Col8 | 19 | 0.31  | 0.00 | 0.36  |
| Col8 | 20 | 0.40  | 0.00 | 0.36  |
| Col8 | 21 | 0.25  | 0.00 | 0.36  |
| Col8 | 22 | 0.29  | 0.00 | 0.36  |
| Col8 | 23 | 0.14  | 0.00 | 0.36  |
| Col8 | 24 | 0.40  | 0.00 | 0.36  |
| Col8 | 25 | 0.25  | 0.00 | 0.36  |
| Col8 | 26 | 0.29  | 0.00 | 0.36  |
| Col8 | 27 | 0.14  | 0.00 | 0.36  |
| Col8 | 28 | -0.18 | 0.00 | -0.43 |
| Col8 | 29 | -0.37 | 0.00 | -0.43 |
| Col8 | 30 | -0.18 | 0.00 | 0.48  |
| Col8 | 31 | -0.37 | 0.00 | 0.48  |
| Col8 | 32 | -0.18 | 0.00 | 0.48  |
| Col8 | 33 | -0.37 | 0.00 | 0.48  |
| Col8 | 34 | -0.03 | 0.00 | 0.48  |
| Col8 | 35 | -0.23 | 0.00 | 0.48  |
| Col8 | 36 | 0.14  | 0.00 | 0.00  |
| Col8 | 37 | 0.14  | 0.00 | 0.00  |
| Col8 | 38 | 0.66  | 0.00 | 0.00  |
| Col8 | 39 | 0.66  | 0.00 | 0.00  |
| Col8 | 40 | 0.49  | 0.00 | 0.00  |
| Col8 | 41 | 0.49  | 0.00 | 0.00  |
| Col8 | 42 | 0.49  | 0.00 | 0.00  |
| Col8 | 43 | 0.49  | 0.00 | 0.00  |
| Col8 | 44 | 0.09  | 0.00 | 0.00  |
| Col8 | 45 | 0.09  | 0.00 | 0.00  |
| Col8 | 46 | 0.69  | 0.00 | 0.00  |
| Col8 | 47 | 0.46  | 0.00 | 0.36  |
| Col8 | 48 | 0.32  | 0.00 | 0.36  |
| Col8 | 49 | 0.13  | 0.00 | 0.00  |
| Col8 | 50 | 0.13  | 0.00 | 0.00  |
| Col8 | 51 | 0.09  | 0.00 | 0.00  |
| Col8 | 52 | 0.09  | 0.00 | 0.00  |
| Col8 | 53 | 0.78  | 0.00 | 0.00  |
| Col8 | 54 | 0.62  | 0.00 | 0.00  |
| Col8 | 55 | 0.62  | 0.00 | 0.36  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col18  | 56 | 0.62  | 0.00 | 0.00  |
| Col19  | 1  | 0.83  | 0.00 | 0.00  |
| Col19  | 2  | 0.13  | 0.00 | 0.00  |
| Col19  | 3  | 0.60  | 0.00 | 0.00  |
| Col19  | 4  | 0.60  | 0.00 | 0.00  |
| Col19  | 5  | 0.66  | 0.00 | 0.00  |
| Col19  | 6  | 0.49  | 0.00 | 0.00  |
| Col19  | 7  | 0.49  | 0.00 | 0.00  |
| Col19  | 8  | -0.15 | 0.00 | -0.43 |
| Col19  | 9  | -0.34 | 0.00 | -0.43 |
| Col19  | 10 | -0.15 | 0.00 | 0.47  |
| Col19  | 11 | -0.34 | 0.00 | 0.47  |
| Col19  | 12 | -0.15 | 0.00 | 0.47  |
| Col19  | 13 | -0.34 | 0.00 | 0.47  |
| Col19  | 14 | 0.00  | 0.00 | 0.47  |
| Col19  | 15 | -0.20 | 0.00 | 0.47  |
| Col19  | 16 | 0.57  | 0.00 | 0.35  |
| Col19  | 17 | 0.42  | 0.00 | 0.35  |
| Col19  | 18 | 0.46  | 0.00 | 0.35  |
| Col19  | 19 | 0.31  | 0.00 | 0.35  |
| Col19  | 20 | 0.39  | 0.00 | 0.35  |
| Col19  | 21 | 0.25  | 0.00 | 0.35  |
| Col19  | 22 | 0.29  | 0.00 | 0.35  |
| Col19  | 23 | 0.14  | 0.00 | 0.35  |
| Col19  | 24 | 0.39  | 0.00 | 0.35  |
| Col19  | 25 | 0.25  | 0.00 | 0.35  |
| Col19  | 26 | 0.29  | 0.00 | 0.35  |
| Col19  | 27 | 0.14  | 0.00 | 0.35  |
| Col19  | 28 | -0.18 | 0.00 | -0.43 |
| Col19  | 29 | -0.37 | 0.00 | -0.43 |
| Col19  | 30 | -0.18 | 0.00 | 0.47  |
| Col19  | 31 | -0.37 | 0.00 | 0.47  |
| Col19  | 32 | -0.18 | 0.00 | 0.47  |
| Col19  | 33 | -0.37 | 0.00 | 0.47  |
| Col19  | 34 | -0.03 | 0.00 | 0.47  |
| Col19  | 35 | -0.23 | 0.00 | 0.47  |
| Col19  | 36 | 0.14  | 0.00 | 0.00  |
| Col19  | 37 | 0.14  | 0.00 | 0.00  |
| Col19  | 38 | 0.66  | 0.00 | 0.00  |
| Col19  | 39 | 0.66  | 0.00 | 0.00  |
| Col19  | 40 | 0.49  | 0.00 | 0.00  |
| Col19  | 41 | 0.49  | 0.00 | 0.00  |
| Col19  | 42 | 0.49  | 0.00 | 0.00  |
| Col19  | 43 | 0.49  | 0.00 | 0.00  |
| Col19  | 44 | 0.09  | 0.00 | 0.00  |
| Col19  | 45 | 0.09  | 0.00 | 0.00  |
| Col19  | 46 | 0.69  | 0.00 | 0.00  |
| Col19  | 47 | 0.46  | 0.00 | 0.35  |
| Col19  | 48 | 0.32  | 0.00 | 0.35  |
| Col19  | 49 | 0.13  | 0.00 | 0.00  |
| Col19  | 50 | 0.13  | 0.00 | 0.00  |
| Col19  | 51 | 0.09  | 0.00 | 0.00  |
| Col19  | 52 | 0.09  | 0.00 | 0.00  |
| Col19  | 53 | 0.78  | 0.00 | 0.00  |
| Col19  | 54 | 0.62  | 0.00 | 0.00  |
| Col19  | 55 | 0.62  | 0.00 | 0.35  |
| Col19  | 56 | 0.62  | 0.00 | 0.00  |
| Col110 | 1  | 0.83  | 0.00 | 0.00  |
| Col110 | 2  | 0.13  | 0.00 | 0.00  |
| Col110 | 3  | 0.60  | 0.00 | 0.00  |
| Col110 | 4  | 0.60  | 0.00 | 0.00  |
| Col110 | 5  | 0.66  | 0.00 | 0.00  |
| Col110 | 6  | 0.49  | 0.00 | 0.00  |
| Col110 | 7  | 0.49  | 0.00 | 0.00  |
| Col110 | 8  | -0.15 | 0.00 | -0.42 |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col10 | 9  | -0.34 | 0.00 | -0.42 |
| Col10 | 10 | -0.15 | 0.00 | 0.46  |
| Col10 | 11 | -0.34 | 0.00 | 0.46  |
| Col10 | 12 | -0.15 | 0.00 | 0.46  |
| Col10 | 13 | -0.34 | 0.00 | 0.46  |
| Col10 | 14 | -0.01 | 0.00 | 0.46  |
| Col10 | 15 | -0.20 | 0.00 | 0.46  |
| Col10 | 16 | 0.57  | 0.00 | 0.35  |
| Col10 | 17 | 0.42  | 0.00 | 0.35  |
| Col10 | 18 | 0.46  | 0.00 | 0.35  |
| Col10 | 19 | 0.31  | 0.00 | 0.35  |
| Col10 | 20 | 0.39  | 0.00 | 0.35  |
| Col10 | 21 | 0.25  | 0.00 | 0.35  |
| Col10 | 22 | 0.29  | 0.00 | 0.35  |
| Col10 | 23 | 0.14  | 0.00 | 0.35  |
| Col10 | 24 | 0.39  | 0.00 | 0.35  |
| Col10 | 25 | 0.25  | 0.00 | 0.35  |
| Col10 | 26 | 0.29  | 0.00 | 0.35  |
| Col10 | 27 | 0.14  | 0.00 | 0.35  |
| Col10 | 28 | -0.18 | 0.00 | -0.42 |
| Col10 | 29 | -0.37 | 0.00 | -0.42 |
| Col10 | 30 | -0.18 | 0.00 | 0.46  |
| Col10 | 31 | -0.37 | 0.00 | 0.46  |
| Col10 | 32 | -0.18 | 0.00 | 0.46  |
| Col10 | 33 | -0.37 | 0.00 | 0.46  |
| Col10 | 34 | -0.03 | 0.00 | 0.46  |
| Col10 | 35 | -0.23 | 0.00 | 0.46  |
| Col10 | 36 | 0.14  | 0.00 | 0.00  |
| Col10 | 37 | 0.14  | 0.00 | 0.00  |
| Col10 | 38 | 0.66  | 0.00 | 0.00  |
| Col10 | 39 | 0.66  | 0.00 | 0.00  |
| Col10 | 40 | 0.49  | 0.00 | 0.00  |
| Col10 | 41 | 0.49  | 0.00 | 0.00  |
| Col10 | 42 | 0.49  | 0.00 | 0.00  |
| Col10 | 43 | 0.49  | 0.00 | 0.00  |
| Col10 | 44 | 0.09  | 0.00 | 0.00  |
| Col10 | 45 | 0.09  | 0.00 | 0.00  |
| Col10 | 46 | 0.69  | 0.00 | 0.00  |
| Col10 | 47 | 0.46  | 0.00 | 0.35  |
| Col10 | 48 | 0.32  | 0.00 | 0.35  |
| Col10 | 49 | 0.13  | 0.00 | 0.00  |
| Col10 | 50 | 0.13  | 0.00 | 0.00  |
| Col10 | 51 | 0.09  | 0.00 | 0.00  |
| Col10 | 52 | 0.09  | 0.00 | 0.00  |
| Col10 | 53 | 0.77  | 0.00 | 0.00  |
| Col10 | 54 | 0.61  | 0.00 | 0.00  |
| Col10 | 55 | 0.61  | 0.00 | 0.35  |
| Col10 | 56 | 0.62  | 0.00 | 0.00  |
| Col11 | 1  | 0.83  | 0.00 | 0.00  |
| Col11 | 2  | 0.13  | 0.00 | 0.00  |
| Col11 | 3  | 0.60  | 0.00 | 0.00  |
| Col11 | 4  | 0.60  | 0.00 | 0.00  |
| Col11 | 5  | 0.66  | 0.00 | 0.00  |
| Col11 | 6  | 0.48  | 0.00 | 0.00  |
| Col11 | 7  | 0.48  | 0.00 | 0.00  |
| Col11 | 8  | -0.15 | 0.00 | -0.42 |
| Col11 | 9  | -0.34 | 0.00 | -0.42 |
| Col11 | 10 | -0.15 | 0.00 | 0.46  |
| Col11 | 11 | -0.34 | 0.00 | 0.46  |
| Col11 | 12 | -0.15 | 0.00 | 0.46  |
| Col11 | 13 | -0.34 | 0.00 | 0.46  |
| Col11 | 14 | -0.01 | 0.00 | 0.46  |
| Col11 | 15 | -0.20 | 0.00 | 0.46  |
| Col11 | 16 | 0.57  | 0.00 | 0.34  |
| Col11 | 17 | 0.42  | 0.00 | 0.34  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col11 | 18 | 0.46  | 0.00 | 0.34  |
| Col11 | 19 | 0.31  | 0.00 | 0.34  |
| Col11 | 20 | 0.39  | 0.00 | 0.34  |
| Col11 | 21 | 0.25  | 0.00 | 0.34  |
| Col11 | 22 | 0.28  | 0.00 | 0.34  |
| Col11 | 23 | 0.14  | 0.00 | 0.34  |
| Col11 | 24 | 0.39  | 0.00 | 0.34  |
| Col11 | 25 | 0.25  | 0.00 | 0.34  |
| Col11 | 26 | 0.28  | 0.00 | 0.34  |
| Col11 | 27 | 0.14  | 0.00 | 0.34  |
| Col11 | 28 | -0.18 | 0.00 | -0.42 |
| Col11 | 29 | -0.37 | 0.00 | -0.42 |
| Col11 | 30 | -0.18 | 0.00 | 0.46  |
| Col11 | 31 | -0.37 | 0.00 | 0.46  |
| Col11 | 32 | -0.18 | 0.00 | 0.46  |
| Col11 | 33 | -0.37 | 0.00 | 0.46  |
| Col11 | 34 | -0.03 | 0.00 | 0.46  |
| Col11 | 35 | -0.23 | 0.00 | 0.46  |
| Col11 | 36 | 0.14  | 0.00 | 0.00  |
| Col11 | 37 | 0.14  | 0.00 | 0.00  |
| Col11 | 38 | 0.66  | 0.00 | 0.00  |
| Col11 | 39 | 0.66  | 0.00 | 0.00  |
| Col11 | 40 | 0.49  | 0.00 | 0.00  |
| Col11 | 41 | 0.49  | 0.00 | 0.00  |
| Col11 | 42 | 0.49  | 0.00 | 0.00  |
| Col11 | 43 | 0.49  | 0.00 | 0.00  |
| Col11 | 44 | 0.09  | 0.00 | 0.00  |
| Col11 | 45 | 0.09  | 0.00 | 0.00  |
| Col11 | 46 | 0.69  | 0.00 | 0.00  |
| Col11 | 47 | 0.46  | 0.00 | 0.34  |
| Col11 | 48 | 0.32  | 0.00 | 0.34  |
| Col11 | 49 | 0.13  | 0.00 | 0.00  |
| Col11 | 50 | 0.13  | 0.00 | 0.00  |
| Col11 | 51 | 0.09  | 0.00 | 0.00  |
| Col11 | 52 | 0.09  | 0.00 | 0.00  |
| Col11 | 53 | 0.66  | 0.00 | 0.00  |
| Col11 | 54 | 0.53  | 0.00 | 0.00  |
| Col11 | 55 | 0.53  | 0.00 | 0.34  |
| Col11 | 56 | 0.53  | 0.00 | 0.00  |
| Col12 | 1  | 0.83  | 0.00 | 0.00  |
| Col12 | 2  | 0.13  | 0.00 | 0.00  |
| Col12 | 3  | 0.60  | 0.00 | 0.00  |
| Col12 | 4  | 0.60  | 0.00 | 0.00  |
| Col12 | 5  | 0.66  | 0.00 | 0.00  |
| Col12 | 6  | 0.48  | 0.00 | 0.00  |
| Col12 | 7  | 0.48  | 0.00 | 0.00  |
| Col12 | 8  | -0.15 | 0.00 | -0.41 |
| Col12 | 9  | -0.35 | 0.00 | -0.41 |
| Col12 | 10 | -0.15 | 0.00 | 0.45  |
| Col12 | 11 | -0.35 | 0.00 | 0.45  |
| Col12 | 12 | -0.15 | 0.00 | 0.45  |
| Col12 | 13 | -0.35 | 0.00 | 0.45  |
| Col12 | 14 | -0.01 | 0.00 | 0.45  |
| Col12 | 15 | -0.20 | 0.00 | 0.45  |
| Col12 | 16 | 0.57  | 0.00 | 0.34  |
| Col12 | 17 | 0.42  | 0.00 | 0.34  |
| Col12 | 18 | 0.46  | 0.00 | 0.34  |
| Col12 | 19 | 0.31  | 0.00 | 0.34  |
| Col12 | 20 | 0.39  | 0.00 | 0.34  |
| Col12 | 21 | 0.25  | 0.00 | 0.34  |
| Col12 | 22 | 0.28  | 0.00 | 0.34  |
| Col12 | 23 | 0.14  | 0.00 | 0.34  |
| Col12 | 24 | 0.39  | 0.00 | 0.34  |
| Col12 | 25 | 0.25  | 0.00 | 0.34  |
| Col12 | 26 | 0.28  | 0.00 | 0.34  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col12 | 27 | 0.14  | 0.00 | 0.34  |
| Col12 | 28 | -0.18 | 0.00 | -0.41 |
| Col12 | 29 | -0.37 | 0.00 | -0.41 |
| Col12 | 30 | -0.18 | 0.00 | 0.45  |
| Col12 | 31 | -0.37 | 0.00 | 0.45  |
| Col12 | 32 | -0.18 | 0.00 | 0.45  |
| Col12 | 33 | -0.37 | 0.00 | 0.45  |
| Col12 | 34 | -0.03 | 0.00 | 0.45  |
| Col12 | 35 | -0.23 | 0.00 | 0.45  |
| Col12 | 36 | 0.14  | 0.00 | 0.00  |
| Col12 | 37 | 0.14  | 0.00 | 0.00  |
| Col12 | 38 | 0.66  | 0.00 | 0.00  |
| Col12 | 39 | 0.66  | 0.00 | 0.00  |
| Col12 | 40 | 0.49  | 0.00 | 0.00  |
| Col12 | 41 | 0.49  | 0.00 | 0.00  |
| Col12 | 42 | 0.49  | 0.00 | 0.00  |
| Col12 | 43 | 0.49  | 0.00 | 0.00  |
| Col12 | 44 | 0.08  | 0.00 | 0.00  |
| Col12 | 45 | 0.08  | 0.00 | 0.00  |
| Col12 | 46 | 0.69  | 0.00 | 0.00  |
| Col12 | 47 | 0.46  | 0.00 | 0.34  |
| Col12 | 48 | 0.32  | 0.00 | 0.34  |
| Col12 | 49 | 0.13  | 0.00 | 0.00  |
| Col12 | 50 | 0.13  | 0.00 | 0.00  |
| Col12 | 51 | 0.09  | 0.00 | 0.00  |
| Col12 | 52 | 0.09  | 0.00 | 0.00  |
| Col12 | 53 | 0.60  | 0.00 | 0.00  |
| Col12 | 54 | 0.49  | 0.00 | 0.00  |
| Col12 | 55 | 0.49  | 0.00 | 0.34  |
| Col12 | 56 | 0.49  | 0.00 | 0.00  |
| Col13 | 1  | 0.83  | 0.00 | 0.00  |
| Col13 | 2  | 0.13  | 0.00 | 0.00  |
| Col13 | 3  | 0.60  | 0.00 | 0.00  |
| Col13 | 4  | 0.60  | 0.00 | 0.00  |
| Col13 | 5  | 0.66  | 0.00 | 0.00  |
| Col13 | 6  | 0.48  | 0.00 | 0.00  |
| Col13 | 7  | 0.48  | 0.00 | 0.00  |
| Col13 | 8  | -0.15 | 0.00 | -0.41 |
| Col13 | 9  | -0.35 | 0.00 | -0.41 |
| Col13 | 10 | -0.15 | 0.00 | 0.47  |
| Col13 | 11 | -0.35 | 0.00 | 0.47  |
| Col13 | 12 | -0.15 | 0.00 | 0.47  |
| Col13 | 13 | -0.35 | 0.00 | 0.47  |
| Col13 | 14 | -0.01 | 0.00 | 0.47  |
| Col13 | 15 | -0.20 | 0.00 | 0.47  |
| Col13 | 16 | 0.57  | 0.00 | 0.35  |
| Col13 | 17 | 0.42  | 0.00 | 0.35  |
| Col13 | 18 | 0.46  | 0.00 | 0.35  |
| Col13 | 19 | 0.31  | 0.00 | 0.35  |
| Col13 | 20 | 0.39  | 0.00 | 0.35  |
| Col13 | 21 | 0.25  | 0.00 | 0.35  |
| Col13 | 22 | 0.28  | 0.00 | 0.35  |
| Col13 | 23 | 0.14  | 0.00 | 0.35  |
| Col13 | 24 | 0.39  | 0.00 | 0.35  |
| Col13 | 25 | 0.25  | 0.00 | 0.35  |
| Col13 | 26 | 0.28  | 0.00 | 0.35  |
| Col13 | 27 | 0.14  | 0.00 | 0.35  |
| Col13 | 28 | -0.18 | 0.00 | -0.41 |
| Col13 | 29 | -0.37 | 0.00 | -0.41 |
| Col13 | 30 | -0.18 | 0.00 | 0.47  |
| Col13 | 31 | -0.37 | 0.00 | 0.47  |
| Col13 | 32 | -0.18 | 0.00 | 0.47  |
| Col13 | 33 | -0.37 | 0.00 | 0.47  |
| Col13 | 34 | -0.03 | 0.00 | 0.47  |
| Col13 | 35 | -0.23 | 0.00 | 0.47  |

|       |    |      |      |      |
|-------|----|------|------|------|
| Col13 | 36 | 0.13 | 0.00 | 0.00 |
| Col13 | 37 | 0.13 | 0.00 | 0.00 |
| Col13 | 38 | 0.66 | 0.00 | 0.00 |
| Col13 | 39 | 0.66 | 0.00 | 0.00 |
| Col13 | 40 | 0.49 | 0.00 | 0.00 |
| Col13 | 41 | 0.49 | 0.00 | 0.00 |
| Col13 | 42 | 0.49 | 0.00 | 0.00 |
| Col13 | 43 | 0.49 | 0.00 | 0.00 |
| Col13 | 44 | 0.08 | 0.00 | 0.00 |
| Col13 | 45 | 0.08 | 0.00 | 0.00 |
| Col13 | 46 | 0.69 | 0.00 | 0.00 |
| Col13 | 47 | 0.46 | 0.00 | 0.35 |
| Col13 | 48 | 0.32 | 0.00 | 0.35 |
| Col13 | 49 | 0.13 | 0.00 | 0.00 |
| Col13 | 50 | 0.13 | 0.00 | 0.00 |
| Col13 | 51 | 0.09 | 0.00 | 0.00 |
| Col13 | 52 | 0.09 | 0.00 | 0.00 |
| Col13 | 53 | 0.60 | 0.00 | 0.00 |
| Col13 | 54 | 0.49 | 0.00 | 0.00 |
| Col13 | 55 | 0.49 | 0.00 | 0.35 |
| Col13 | 56 | 0.49 | 0.00 | 0.00 |

COLUMN DEFLECTIONS:

|       | Load | Deflection (in) |       |
|-------|------|-----------------|-------|
| Id    | Id   | Calc            | Limit |
| ----- | ---- | -----           | ----- |
| Col2  | 1    | 0.00            | 1.09  |
| Col2  | 2    | 0.00            | 1.09  |
| Col2  | 3    | 0.00            | 1.09  |
| Col2  | 4    | 0.00            | 1.09  |
| Col2  | 5    | 0.00            | 1.09  |
| Col2  | 6    | 0.00            | 1.09  |
| Col2  | 7    | 0.00            | 1.09  |
| Col2  | 8    | -0.73           | 1.09  |
| Col2  | 9    | -0.73           | 1.09  |
| Col2  | 10   | 0.85            | 1.09  |
| Col2  | 11   | 0.85            | 1.09  |
| Col2  | 12   | 0.85            | 1.09  |
| Col2  | 13   | 0.85            | 1.09  |
| Col2  | 14   | 0.85            | 1.09  |
| Col2  | 15   | 0.85            | 1.09  |
| Col2  | 16   | 0.64            | 1.09  |
| Col2  | 17   | 0.64            | 1.09  |
| Col2  | 18   | 0.64            | 1.09  |
| Col2  | 19   | 0.64            | 1.09  |
| Col2  | 20   | 0.64            | 1.09  |
| Col2  | 21   | 0.64            | 1.09  |
| Col2  | 22   | 0.64            | 1.09  |
| Col2  | 23   | 0.64            | 1.09  |
| Col2  | 24   | 0.64            | 1.09  |
| Col2  | 25   | 0.64            | 1.09  |
| Col2  | 26   | 0.64            | 1.09  |
| Col2  | 27   | 0.64            | 1.09  |
| Col2  | 28   | -0.73           | 1.09  |
| Col2  | 29   | -0.73           | 1.09  |
| Col2  | 30   | 0.85            | 1.09  |
| Col2  | 31   | 0.85            | 1.09  |
| Col2  | 32   | 0.85            | 1.09  |
| Col2  | 33   | 0.85            | 1.09  |
| Col2  | 34   | 0.85            | 1.09  |
| Col2  | 35   | 0.85            | 1.09  |
| Col2  | 36   | 0.00            | 1.09  |
| Col2  | 37   | 0.00            | 1.09  |
| Col2  | 38   | 0.00            | 1.09  |



|      |    |       |      |
|------|----|-------|------|
| Col2 | 39 | 0.00  | 1.09 |
| Col2 | 40 | 0.00  | 1.09 |
| Col2 | 41 | 0.00  | 1.09 |
| Col2 | 42 | 0.00  | 1.09 |
| Col2 | 43 | 0.00  | 1.09 |
| Col2 | 44 | 0.00  | 1.09 |
| Col2 | 45 | 0.00  | 1.09 |
| Col2 | 46 | 0.00  | 1.09 |
| Col2 | 47 | 0.38  | 1.09 |
| Col2 | 48 | 0.38  | 1.09 |
| Col2 | 49 | 0.00  | 1.09 |
| Col2 | 50 | 0.00  | 1.09 |
| Col2 | 51 | 0.64  | 1.09 |
| Col2 | 52 | 0.00  | 1.09 |
| Col3 | 1  | 0.00  | 1.10 |
| Col3 | 2  | 0.00  | 1.10 |
| Col3 | 3  | 0.00  | 1.10 |
| Col3 | 4  | 0.00  | 1.10 |
| Col3 | 5  | 0.00  | 1.10 |
| Col3 | 6  | 0.00  | 1.10 |
| Col3 | 7  | 0.00  | 1.10 |
| Col3 | 8  | -0.77 | 1.10 |
| Col3 | 9  | -0.77 | 1.10 |
| Col3 | 10 | 0.84  | 1.10 |
| Col3 | 11 | 0.84  | 1.10 |
| Col3 | 12 | 0.84  | 1.10 |
| Col3 | 13 | 0.84  | 1.10 |
| Col3 | 14 | 0.84  | 1.10 |
| Col3 | 15 | 0.84  | 1.10 |
| Col3 | 16 | 0.63  | 1.10 |
| Col3 | 17 | 0.63  | 1.10 |
| Col3 | 18 | 0.63  | 1.10 |
| Col3 | 19 | 0.63  | 1.10 |
| Col3 | 20 | 0.63  | 1.10 |
| Col3 | 21 | 0.63  | 1.10 |
| Col3 | 22 | 0.63  | 1.10 |
| Col3 | 23 | 0.63  | 1.10 |
| Col3 | 24 | 0.63  | 1.10 |
| Col3 | 25 | 0.63  | 1.10 |
| Col3 | 26 | 0.63  | 1.10 |
| Col3 | 27 | 0.63  | 1.10 |
| Col3 | 28 | -0.77 | 1.10 |
| Col3 | 29 | -0.77 | 1.10 |
| Col3 | 30 | 0.84  | 1.10 |
| Col3 | 31 | 0.84  | 1.10 |
| Col3 | 32 | 0.84  | 1.10 |
| Col3 | 33 | 0.84  | 1.10 |
| Col3 | 34 | 0.84  | 1.10 |
| Col3 | 35 | 0.84  | 1.10 |
| Col3 | 36 | 0.00  | 1.10 |
| Col3 | 37 | 0.00  | 1.10 |
| Col3 | 38 | 0.00  | 1.10 |
| Col3 | 39 | 0.00  | 1.10 |
| Col3 | 40 | 0.00  | 1.10 |
| Col3 | 41 | 0.00  | 1.10 |
| Col3 | 42 | 0.00  | 1.10 |
| Col3 | 43 | 0.00  | 1.10 |
| Col3 | 44 | 0.00  | 1.10 |
| Col3 | 45 | 0.00  | 1.10 |
| Col3 | 46 | 0.00  | 1.10 |
| Col3 | 47 | 0.38  | 1.10 |
| Col3 | 48 | 0.38  | 1.10 |
| Col3 | 49 | 0.00  | 1.10 |
| Col3 | 50 | 0.00  | 1.10 |
| Col3 | 51 | 0.63  | 1.10 |

|      |    |       |      |
|------|----|-------|------|
| Col3 | 52 | 0.00  | 1.10 |
| Col4 | 1  | 0.00  | 1.12 |
| Col4 | 2  | 0.00  | 1.12 |
| Col4 | 3  | 0.00  | 1.12 |
| Col4 | 4  | 0.00  | 1.12 |
| Col4 | 5  | 0.00  | 1.12 |
| Col4 | 6  | 0.00  | 1.12 |
| Col4 | 7  | 0.00  | 1.12 |
| Col4 | 8  | -0.81 | 1.12 |
| Col4 | 9  | -0.81 | 1.12 |
| Col4 | 10 | 0.89  | 1.12 |
| Col4 | 11 | 0.89  | 1.12 |
| Col4 | 12 | 0.89  | 1.12 |
| Col4 | 13 | 0.89  | 1.12 |
| Col4 | 14 | 0.89  | 1.12 |
| Col4 | 15 | 0.89  | 1.12 |
| Col4 | 16 | 0.67  | 1.12 |
| Col4 | 17 | 0.67  | 1.12 |
| Col4 | 18 | 0.67  | 1.12 |
| Col4 | 19 | 0.67  | 1.12 |
| Col4 | 20 | 0.67  | 1.12 |
| Col4 | 21 | 0.67  | 1.12 |
| Col4 | 22 | 0.67  | 1.12 |
| Col4 | 23 | 0.67  | 1.12 |
| Col4 | 24 | 0.67  | 1.12 |
| Col4 | 25 | 0.67  | 1.12 |
| Col4 | 26 | 0.67  | 1.12 |
| Col4 | 27 | 0.67  | 1.12 |
| Col4 | 28 | -0.81 | 1.12 |
| Col4 | 29 | -0.81 | 1.12 |
| Col4 | 30 | 0.89  | 1.12 |
| Col4 | 31 | 0.89  | 1.12 |
| Col4 | 32 | 0.89  | 1.12 |
| Col4 | 33 | 0.89  | 1.12 |
| Col4 | 34 | 0.89  | 1.12 |
| Col4 | 35 | 0.89  | 1.12 |
| Col4 | 36 | 0.00  | 1.12 |
| Col4 | 37 | 0.00  | 1.12 |
| Col4 | 38 | 0.00  | 1.12 |
| Col4 | 39 | 0.00  | 1.12 |
| Col4 | 40 | 0.00  | 1.12 |
| Col4 | 41 | 0.00  | 1.12 |
| Col4 | 42 | 0.00  | 1.12 |
| Col4 | 43 | 0.00  | 1.12 |
| Col4 | 44 | 0.00  | 1.12 |
| Col4 | 45 | 0.00  | 1.12 |
| Col4 | 46 | 0.00  | 1.12 |
| Col4 | 47 | 0.40  | 1.12 |
| Col4 | 48 | 0.40  | 1.12 |
| Col4 | 49 | 0.00  | 1.12 |
| Col4 | 50 | 0.00  | 1.12 |
| Col4 | 51 | 0.67  | 1.12 |
| Col4 | 52 | 0.00  | 1.12 |
| Col5 | 1  | 0.00  | 1.13 |
| Col5 | 2  | 0.00  | 1.13 |
| Col5 | 3  | 0.00  | 1.13 |
| Col5 | 4  | 0.00  | 1.13 |
| Col5 | 5  | 0.00  | 1.13 |
| Col5 | 6  | 0.00  | 1.13 |
| Col5 | 7  | 0.00  | 1.13 |
| Col5 | 8  | -0.85 | 1.13 |
| Col5 | 9  | -0.85 | 1.13 |
| Col5 | 10 | 0.93  | 1.13 |
| Col5 | 11 | 0.93  | 1.13 |
| Col5 | 12 | 0.93  | 1.13 |

|      |    |       |      |
|------|----|-------|------|
| Col5 | 13 | 0.93  | 1.13 |
| Col5 | 14 | 0.93  | 1.13 |
| Col5 | 15 | 0.93  | 1.13 |
| Col5 | 16 | 0.70  | 1.13 |
| Col5 | 17 | 0.70  | 1.13 |
| Col5 | 18 | 0.70  | 1.13 |
| Col5 | 19 | 0.70  | 1.13 |
| Col5 | 20 | 0.70  | 1.13 |
| Col5 | 21 | 0.70  | 1.13 |
| Col5 | 22 | 0.70  | 1.13 |
| Col5 | 23 | 0.70  | 1.13 |
| Col5 | 24 | 0.70  | 1.13 |
| Col5 | 25 | 0.70  | 1.13 |
| Col5 | 26 | 0.70  | 1.13 |
| Col5 | 27 | 0.70  | 1.13 |
| Col5 | 28 | -0.85 | 1.13 |
| Col5 | 29 | -0.85 | 1.13 |
| Col5 | 30 | 0.93  | 1.13 |
| Col5 | 31 | 0.93  | 1.13 |
| Col5 | 32 | 0.93  | 1.13 |
| Col5 | 33 | 0.93  | 1.13 |
| Col5 | 34 | 0.93  | 1.13 |
| Col5 | 35 | 0.93  | 1.13 |
| Col5 | 36 | 0.00  | 1.13 |
| Col5 | 37 | 0.00  | 1.13 |
| Col5 | 38 | 0.00  | 1.13 |
| Col5 | 39 | 0.00  | 1.13 |
| Col5 | 40 | 0.00  | 1.13 |
| Col5 | 41 | 0.00  | 1.13 |
| Col5 | 42 | 0.00  | 1.13 |
| Col5 | 43 | 0.00  | 1.13 |
| Col5 | 44 | 0.00  | 1.13 |
| Col5 | 45 | 0.00  | 1.13 |
| Col5 | 46 | 0.00  | 1.13 |
| Col5 | 47 | 0.42  | 1.13 |
| Col5 | 48 | 0.42  | 1.13 |
| Col5 | 49 | 0.00  | 1.13 |
| Col5 | 50 | 0.00  | 1.13 |
| Col5 | 51 | 0.70  | 1.13 |
| Col5 | 52 | 0.00  | 1.13 |
| Col6 | 1  | 0.00  | 1.14 |
| Col6 | 2  | 0.00  | 1.14 |
| Col6 | 3  | 0.00  | 1.14 |
| Col6 | 4  | 0.00  | 1.14 |
| Col6 | 5  | 0.00  | 1.14 |
| Col6 | 6  | 0.00  | 1.14 |
| Col6 | 7  | 0.00  | 1.14 |
| Col6 | 8  | -0.89 | 1.14 |
| Col6 | 9  | -0.89 | 1.14 |
| Col6 | 10 | 0.98  | 1.14 |
| Col6 | 11 | 0.98  | 1.14 |
| Col6 | 12 | 0.98  | 1.14 |
| Col6 | 13 | 0.98  | 1.14 |
| Col6 | 14 | 0.98  | 1.14 |
| Col6 | 15 | 0.98  | 1.14 |
| Col6 | 16 | 0.73  | 1.14 |
| Col6 | 17 | 0.73  | 1.14 |
| Col6 | 18 | 0.73  | 1.14 |
| Col6 | 19 | 0.73  | 1.14 |
| Col6 | 20 | 0.73  | 1.14 |
| Col6 | 21 | 0.73  | 1.14 |
| Col6 | 22 | 0.73  | 1.14 |
| Col6 | 23 | 0.73  | 1.14 |
| Col6 | 24 | 0.73  | 1.14 |
| Col6 | 25 | 0.73  | 1.14 |

|      |    |       |      |
|------|----|-------|------|
| Col6 | 26 | 0.73  | 1.14 |
| Col6 | 27 | 0.73  | 1.14 |
| Col6 | 28 | -0.89 | 1.14 |
| Col6 | 29 | -0.89 | 1.14 |
| Col6 | 30 | 0.98  | 1.14 |
| Col6 | 31 | 0.98  | 1.14 |
| Col6 | 32 | 0.98  | 1.14 |
| Col6 | 33 | 0.98  | 1.14 |
| Col6 | 34 | 0.98  | 1.14 |
| Col6 | 35 | 0.98  | 1.14 |
| Col6 | 36 | 0.00  | 1.14 |
| Col6 | 37 | 0.00  | 1.14 |
| Col6 | 38 | 0.00  | 1.14 |
| Col6 | 39 | 0.00  | 1.14 |
| Col6 | 40 | 0.00  | 1.14 |
| Col6 | 41 | 0.00  | 1.14 |
| Col6 | 42 | 0.00  | 1.14 |
| Col6 | 43 | 0.00  | 1.14 |
| Col6 | 44 | 0.00  | 1.14 |
| Col6 | 45 | 0.00  | 1.14 |
| Col6 | 46 | 0.00  | 1.14 |
| Col6 | 47 | 0.44  | 1.14 |
| Col6 | 48 | 0.44  | 1.14 |
| Col6 | 49 | 0.00  | 1.14 |
| Col6 | 50 | 0.00  | 1.14 |
| Col6 | 51 | 0.73  | 1.14 |
| Col6 | 52 | 0.00  | 1.14 |
| Col7 | 1  | 0.00  | 1.15 |
| Col7 | 2  | 0.00  | 1.15 |
| Col7 | 3  | 0.00  | 1.15 |
| Col7 | 4  | 0.00  | 1.15 |
| Col7 | 5  | 0.00  | 1.15 |
| Col7 | 6  | 0.00  | 1.15 |
| Col7 | 7  | 0.00  | 1.15 |
| Col7 | 8  | 0.00  | 1.15 |
| Col7 | 9  | 0.00  | 1.15 |
| Col7 | 10 | 0.00  | 1.15 |
| Col7 | 11 | 0.00  | 1.15 |
| Col7 | 12 | 0.00  | 1.15 |
| Col7 | 13 | 0.00  | 1.15 |
| Col7 | 14 | 0.00  | 1.15 |
| Col7 | 15 | 0.00  | 1.15 |
| Col7 | 16 | 0.00  | 1.15 |
| Col7 | 17 | 0.00  | 1.15 |
| Col7 | 18 | 0.00  | 1.15 |
| Col7 | 19 | 0.00  | 1.15 |
| Col7 | 20 | 0.00  | 1.15 |
| Col7 | 21 | 0.00  | 1.15 |
| Col7 | 22 | 0.00  | 1.15 |
| Col7 | 23 | 0.00  | 1.15 |
| Col7 | 24 | 0.00  | 1.15 |
| Col7 | 25 | 0.00  | 1.15 |
| Col7 | 26 | 0.00  | 1.15 |
| Col7 | 27 | 0.00  | 1.15 |
| Col7 | 28 | 0.00  | 1.15 |
| Col7 | 29 | 0.00  | 1.15 |
| Col7 | 30 | 0.00  | 1.15 |
| Col7 | 31 | 0.00  | 1.15 |
| Col7 | 32 | 0.00  | 1.15 |
| Col7 | 33 | 0.00  | 1.15 |
| Col7 | 34 | 0.00  | 1.15 |
| Col7 | 35 | 0.00  | 1.15 |
| Col7 | 36 | 0.00  | 1.15 |
| Col7 | 37 | 0.00  | 1.15 |
| Col7 | 38 | 0.00  | 1.15 |

|      |    |       |      |
|------|----|-------|------|
| Col7 | 39 | 0.00  | 1.15 |
| Col7 | 40 | 0.00  | 1.15 |
| Col7 | 41 | 0.00  | 1.15 |
| Col7 | 42 | 0.00  | 1.15 |
| Col7 | 43 | 0.00  | 1.15 |
| Col7 | 44 | 0.00  | 1.15 |
| Col7 | 45 | 0.00  | 1.15 |
| Col7 | 46 | 0.00  | 1.15 |
| Col7 | 47 | 0.00  | 1.15 |
| Col7 | 48 | 0.00  | 1.15 |
| Col7 | 49 | 0.00  | 1.15 |
| Col7 | 50 | 0.00  | 1.15 |
| Col7 | 51 | 0.00  | 1.15 |
| Col7 | 52 | 0.00  | 1.15 |
| Col8 | 1  | 0.00  | 1.14 |
| Col8 | 2  | 0.00  | 1.14 |
| Col8 | 3  | 0.00  | 1.14 |
| Col8 | 4  | 0.00  | 1.14 |
| Col8 | 5  | 0.00  | 1.14 |
| Col8 | 6  | 0.00  | 1.14 |
| Col8 | 7  | 0.00  | 1.14 |
| Col8 | 8  | -0.89 | 1.14 |
| Col8 | 9  | -0.89 | 1.14 |
| Col8 | 10 | 0.98  | 1.14 |
| Col8 | 11 | 0.98  | 1.14 |
| Col8 | 12 | 0.98  | 1.14 |
| Col8 | 13 | 0.98  | 1.14 |
| Col8 | 14 | 0.98  | 1.14 |
| Col8 | 15 | 0.98  | 1.14 |
| Col8 | 16 | 0.73  | 1.14 |
| Col8 | 17 | 0.73  | 1.14 |
| Col8 | 18 | 0.73  | 1.14 |
| Col8 | 19 | 0.73  | 1.14 |
| Col8 | 20 | 0.73  | 1.14 |
| Col8 | 21 | 0.73  | 1.14 |
| Col8 | 22 | 0.73  | 1.14 |
| Col8 | 23 | 0.73  | 1.14 |
| Col8 | 24 | 0.73  | 1.14 |
| Col8 | 25 | 0.73  | 1.14 |
| Col8 | 26 | 0.73  | 1.14 |
| Col8 | 27 | 0.73  | 1.14 |
| Col8 | 28 | -0.89 | 1.14 |
| Col8 | 29 | -0.89 | 1.14 |
| Col8 | 30 | 0.98  | 1.14 |
| Col8 | 31 | 0.98  | 1.14 |
| Col8 | 32 | 0.98  | 1.14 |
| Col8 | 33 | 0.98  | 1.14 |
| Col8 | 34 | 0.98  | 1.14 |
| Col8 | 35 | 0.98  | 1.14 |
| Col8 | 36 | 0.00  | 1.14 |
| Col8 | 37 | 0.00  | 1.14 |
| Col8 | 38 | 0.00  | 1.14 |
| Col8 | 39 | 0.00  | 1.14 |
| Col8 | 40 | 0.00  | 1.14 |
| Col8 | 41 | 0.00  | 1.14 |
| Col8 | 42 | 0.00  | 1.14 |
| Col8 | 43 | 0.00  | 1.14 |
| Col8 | 44 | 0.00  | 1.14 |
| Col8 | 45 | 0.00  | 1.14 |
| Col8 | 46 | 0.00  | 1.14 |
| Col8 | 47 | 0.44  | 1.14 |
| Col8 | 48 | 0.44  | 1.14 |
| Col8 | 49 | 0.00  | 1.14 |
| Col8 | 50 | 0.00  | 1.14 |
| Col8 | 51 | 0.73  | 1.14 |

|        |    |       |      |
|--------|----|-------|------|
| Col18  | 52 | 0.00  | 1.14 |
| Col19  | 1  | 0.00  | 1.13 |
| Col19  | 2  | 0.00  | 1.13 |
| Col19  | 3  | 0.00  | 1.13 |
| Col19  | 4  | 0.00  | 1.13 |
| Col19  | 5  | 0.00  | 1.13 |
| Col19  | 6  | 0.00  | 1.13 |
| Col19  | 7  | 0.00  | 1.13 |
| Col19  | 8  | -0.85 | 1.13 |
| Col19  | 9  | -0.85 | 1.13 |
| Col19  | 10 | 0.93  | 1.13 |
| Col19  | 11 | 0.93  | 1.13 |
| Col19  | 12 | 0.93  | 1.13 |
| Col19  | 13 | 0.93  | 1.13 |
| Col19  | 14 | 0.93  | 1.13 |
| Col19  | 15 | 0.93  | 1.13 |
| Col19  | 16 | 0.70  | 1.13 |
| Col19  | 17 | 0.70  | 1.13 |
| Col19  | 18 | 0.70  | 1.13 |
| Col19  | 19 | 0.70  | 1.13 |
| Col19  | 20 | 0.70  | 1.13 |
| Col19  | 21 | 0.70  | 1.13 |
| Col19  | 22 | 0.70  | 1.13 |
| Col19  | 23 | 0.70  | 1.13 |
| Col19  | 24 | 0.70  | 1.13 |
| Col19  | 25 | 0.70  | 1.13 |
| Col19  | 26 | 0.70  | 1.13 |
| Col19  | 27 | 0.70  | 1.13 |
| Col19  | 28 | -0.85 | 1.13 |
| Col19  | 29 | -0.85 | 1.13 |
| Col19  | 30 | 0.93  | 1.13 |
| Col19  | 31 | 0.93  | 1.13 |
| Col19  | 32 | 0.93  | 1.13 |
| Col19  | 33 | 0.93  | 1.13 |
| Col19  | 34 | 0.93  | 1.13 |
| Col19  | 35 | 0.93  | 1.13 |
| Col19  | 36 | 0.00  | 1.13 |
| Col19  | 37 | 0.00  | 1.13 |
| Col19  | 38 | 0.00  | 1.13 |
| Col19  | 39 | 0.00  | 1.13 |
| Col19  | 40 | 0.00  | 1.13 |
| Col19  | 41 | 0.00  | 1.13 |
| Col19  | 42 | 0.00  | 1.13 |
| Col19  | 43 | 0.00  | 1.13 |
| Col19  | 44 | 0.00  | 1.13 |
| Col19  | 45 | 0.00  | 1.13 |
| Col19  | 46 | 0.00  | 1.13 |
| Col19  | 47 | 0.42  | 1.13 |
| Col19  | 48 | 0.42  | 1.13 |
| Col19  | 49 | 0.00  | 1.13 |
| Col19  | 50 | 0.00  | 1.13 |
| Col19  | 51 | 0.70  | 1.13 |
| Col19  | 52 | 0.00  | 1.13 |
| Col110 | 1  | 0.00  | 1.12 |
| Col110 | 2  | 0.00  | 1.12 |
| Col110 | 3  | 0.00  | 1.12 |
| Col110 | 4  | 0.00  | 1.12 |
| Col110 | 5  | 0.00  | 1.12 |
| Col110 | 6  | 0.00  | 1.12 |
| Col110 | 7  | 0.00  | 1.12 |
| Col110 | 8  | -0.81 | 1.12 |
| Col110 | 9  | -0.81 | 1.12 |
| Col110 | 10 | 0.89  | 1.12 |
| Col110 | 11 | 0.89  | 1.12 |
| Col110 | 12 | 0.89  | 1.12 |

|       |    |       |      |
|-------|----|-------|------|
| Col10 | 13 | 0.89  | 1.12 |
| Col10 | 14 | 0.89  | 1.12 |
| Col10 | 15 | 0.89  | 1.12 |
| Col10 | 16 | 0.67  | 1.12 |
| Col10 | 17 | 0.67  | 1.12 |
| Col10 | 18 | 0.67  | 1.12 |
| Col10 | 19 | 0.67  | 1.12 |
| Col10 | 20 | 0.67  | 1.12 |
| Col10 | 21 | 0.67  | 1.12 |
| Col10 | 22 | 0.67  | 1.12 |
| Col10 | 23 | 0.67  | 1.12 |
| Col10 | 24 | 0.67  | 1.12 |
| Col10 | 25 | 0.67  | 1.12 |
| Col10 | 26 | 0.67  | 1.12 |
| Col10 | 27 | 0.67  | 1.12 |
| Col10 | 28 | -0.81 | 1.12 |
| Col10 | 29 | -0.81 | 1.12 |
| Col10 | 30 | 0.89  | 1.12 |
| Col10 | 31 | 0.89  | 1.12 |
| Col10 | 32 | 0.89  | 1.12 |
| Col10 | 33 | 0.89  | 1.12 |
| Col10 | 34 | 0.89  | 1.12 |
| Col10 | 35 | 0.89  | 1.12 |
| Col10 | 36 | 0.00  | 1.12 |
| Col10 | 37 | 0.00  | 1.12 |
| Col10 | 38 | 0.00  | 1.12 |
| Col10 | 39 | 0.00  | 1.12 |
| Col10 | 40 | 0.00  | 1.12 |
| Col10 | 41 | 0.00  | 1.12 |
| Col10 | 42 | 0.00  | 1.12 |
| Col10 | 43 | 0.00  | 1.12 |
| Col10 | 44 | 0.00  | 1.12 |
| Col10 | 45 | 0.00  | 1.12 |
| Col10 | 46 | 0.00  | 1.12 |
| Col10 | 47 | 0.40  | 1.12 |
| Col10 | 48 | 0.40  | 1.12 |
| Col10 | 49 | 0.00  | 1.12 |
| Col10 | 50 | 0.00  | 1.12 |
| Col10 | 51 | 0.67  | 1.12 |
| Col10 | 52 | 0.00  | 1.12 |
| Col11 | 1  | 0.00  | 1.10 |
| Col11 | 2  | 0.00  | 1.10 |
| Col11 | 3  | 0.00  | 1.10 |
| Col11 | 4  | 0.00  | 1.10 |
| Col11 | 5  | 0.00  | 1.10 |
| Col11 | 6  | 0.00  | 1.10 |
| Col11 | 7  | 0.00  | 1.10 |
| Col11 | 8  | -0.77 | 1.10 |
| Col11 | 9  | -0.77 | 1.10 |
| Col11 | 10 | 0.84  | 1.10 |
| Col11 | 11 | 0.84  | 1.10 |
| Col11 | 12 | 0.84  | 1.10 |
| Col11 | 13 | 0.84  | 1.10 |
| Col11 | 14 | 0.84  | 1.10 |
| Col11 | 15 | 0.84  | 1.10 |
| Col11 | 16 | 0.63  | 1.10 |
| Col11 | 17 | 0.63  | 1.10 |
| Col11 | 18 | 0.63  | 1.10 |
| Col11 | 19 | 0.63  | 1.10 |
| Col11 | 20 | 0.63  | 1.10 |
| Col11 | 21 | 0.63  | 1.10 |
| Col11 | 22 | 0.63  | 1.10 |
| Col11 | 23 | 0.63  | 1.10 |
| Col11 | 24 | 0.63  | 1.10 |
| Col11 | 25 | 0.63  | 1.10 |

|       |    |       |      |
|-------|----|-------|------|
| Col11 | 26 | 0.63  | 1.10 |
| Col11 | 27 | 0.63  | 1.10 |
| Col11 | 28 | -0.77 | 1.10 |
| Col11 | 29 | -0.77 | 1.10 |
| Col11 | 30 | 0.84  | 1.10 |
| Col11 | 31 | 0.84  | 1.10 |
| Col11 | 32 | 0.84  | 1.10 |
| Col11 | 33 | 0.84  | 1.10 |
| Col11 | 34 | 0.84  | 1.10 |
| Col11 | 35 | 0.84  | 1.10 |
| Col11 | 36 | 0.00  | 1.10 |
| Col11 | 37 | 0.00  | 1.10 |
| Col11 | 38 | 0.00  | 1.10 |
| Col11 | 39 | 0.00  | 1.10 |
| Col11 | 40 | 0.00  | 1.10 |
| Col11 | 41 | 0.00  | 1.10 |
| Col11 | 42 | 0.00  | 1.10 |
| Col11 | 43 | 0.00  | 1.10 |
| Col11 | 44 | 0.00  | 1.10 |
| Col11 | 45 | 0.00  | 1.10 |
| Col11 | 46 | 0.00  | 1.10 |
| Col11 | 47 | 0.38  | 1.10 |
| Col11 | 48 | 0.38  | 1.10 |
| Col11 | 49 | 0.00  | 1.10 |
| Col11 | 50 | 0.00  | 1.10 |
| Col11 | 51 | 0.63  | 1.10 |
| Col11 | 52 | 0.00  | 1.10 |
| Col12 | 1  | 0.00  | 1.09 |
| Col12 | 2  | 0.00  | 1.09 |
| Col12 | 3  | 0.00  | 1.09 |
| Col12 | 4  | 0.00  | 1.09 |
| Col12 | 5  | 0.00  | 1.09 |
| Col12 | 6  | 0.00  | 1.09 |
| Col12 | 7  | 0.00  | 1.09 |
| Col12 | 8  | -0.73 | 1.09 |
| Col12 | 9  | -0.73 | 1.09 |
| Col12 | 10 | 0.80  | 1.09 |
| Col12 | 11 | 0.80  | 1.09 |
| Col12 | 12 | 0.80  | 1.09 |
| Col12 | 13 | 0.80  | 1.09 |
| Col12 | 14 | 0.80  | 1.09 |
| Col12 | 15 | 0.80  | 1.09 |
| Col12 | 16 | 0.60  | 1.09 |
| Col12 | 17 | 0.60  | 1.09 |
| Col12 | 18 | 0.60  | 1.09 |
| Col12 | 19 | 0.60  | 1.09 |
| Col12 | 20 | 0.60  | 1.09 |
| Col12 | 21 | 0.60  | 1.09 |
| Col12 | 22 | 0.60  | 1.09 |
| Col12 | 23 | 0.60  | 1.09 |
| Col12 | 24 | 0.60  | 1.09 |
| Col12 | 25 | 0.60  | 1.09 |
| Col12 | 26 | 0.60  | 1.09 |
| Col12 | 27 | 0.60  | 1.09 |
| Col12 | 28 | -0.73 | 1.09 |
| Col12 | 29 | -0.73 | 1.09 |
| Col12 | 30 | 0.80  | 1.09 |
| Col12 | 31 | 0.80  | 1.09 |
| Col12 | 32 | 0.80  | 1.09 |
| Col12 | 33 | 0.80  | 1.09 |
| Col12 | 34 | 0.80  | 1.09 |
| Col12 | 35 | 0.80  | 1.09 |
| Col12 | 36 | 0.00  | 1.09 |
| Col12 | 37 | 0.00  | 1.09 |
| Col12 | 38 | 0.00  | 1.09 |



|       |    |       |      |
|-------|----|-------|------|
| Col12 | 39 | 0.00  | 1.09 |
| Col12 | 40 | 0.00  | 1.09 |
| Col12 | 41 | 0.00  | 1.09 |
| Col12 | 42 | 0.00  | 1.09 |
| Col12 | 43 | 0.00  | 1.09 |
| Col12 | 44 | 0.00  | 1.09 |
| Col12 | 45 | 0.00  | 1.09 |
| Col12 | 46 | 0.00  | 1.09 |
| Col12 | 47 | 0.36  | 1.09 |
| Col12 | 48 | 0.36  | 1.09 |
| Col12 | 49 | 0.00  | 1.09 |
| Col12 | 50 | 0.00  | 1.09 |
| Col12 | 51 | 0.60  | 1.09 |
| Col12 | 52 | 0.00  | 1.09 |
| Col13 | 1  | 0.00  | 1.07 |
| Col13 | 2  | 0.00  | 1.07 |
| Col13 | 3  | 0.00  | 1.07 |
| Col13 | 4  | 0.00  | 1.07 |
| Col13 | 5  | 0.00  | 1.07 |
| Col13 | 6  | 0.00  | 1.07 |
| Col13 | 7  | 0.00  | 1.07 |
| Col13 | 8  | -0.69 | 1.07 |
| Col13 | 9  | -0.69 | 1.07 |
| Col13 | 10 | 0.80  | 1.07 |
| Col13 | 11 | 0.80  | 1.07 |
| Col13 | 12 | 0.80  | 1.07 |
| Col13 | 13 | 0.80  | 1.07 |
| Col13 | 14 | 0.80  | 1.07 |
| Col13 | 15 | 0.80  | 1.07 |
| Col13 | 16 | 0.60  | 1.07 |
| Col13 | 17 | 0.60  | 1.07 |
| Col13 | 18 | 0.60  | 1.07 |
| Col13 | 19 | 0.60  | 1.07 |
| Col13 | 20 | 0.60  | 1.07 |
| Col13 | 21 | 0.60  | 1.07 |
| Col13 | 22 | 0.60  | 1.07 |
| Col13 | 23 | 0.60  | 1.07 |
| Col13 | 24 | 0.60  | 1.07 |
| Col13 | 25 | 0.60  | 1.07 |
| Col13 | 26 | 0.60  | 1.07 |
| Col13 | 27 | 0.60  | 1.07 |
| Col13 | 28 | -0.69 | 1.07 |
| Col13 | 29 | -0.69 | 1.07 |
| Col13 | 30 | 0.80  | 1.07 |
| Col13 | 31 | 0.80  | 1.07 |
| Col13 | 32 | 0.80  | 1.07 |
| Col13 | 33 | 0.80  | 1.07 |
| Col13 | 34 | 0.80  | 1.07 |
| Col13 | 35 | 0.80  | 1.07 |
| Col13 | 36 | 0.00  | 1.07 |
| Col13 | 37 | 0.00  | 1.07 |
| Col13 | 38 | 0.00  | 1.07 |
| Col13 | 39 | 0.00  | 1.07 |
| Col13 | 40 | 0.00  | 1.07 |
| Col13 | 41 | 0.00  | 1.07 |
| Col13 | 42 | 0.00  | 1.07 |
| Col13 | 43 | 0.00  | 1.07 |
| Col13 | 44 | 0.00  | 1.07 |
| Col13 | 45 | 0.00  | 1.07 |
| Col13 | 46 | 0.00  | 1.07 |
| Col13 | 47 | 0.36  | 1.07 |
| Col13 | 48 | 0.36  | 1.07 |
| Col13 | 49 | 0.00  | 1.07 |
| Col13 | 50 | 0.00  | 1.07 |
| Col13 | 51 | 0.60  | 1.07 |

Col13      52      0.00      1.07

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id    | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|-------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|       |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col2  | 16.3          | 4.3            | 4.3   | 85           | 70    | 0.00                             | 0.00 |
| Col3  | 16.5          | 4.5            | 4.5   | 86           | 73    | 0.00                             | 0.00 |
| Col4  | 16.7          | 4.7            | 4.7   | 87           | 77    | 0.00                             | 0.00 |
| Col5  | 17.0          | 5.0            | 5.0   | 88           | 80    | 0.00                             | 0.00 |
| Col6  | 17.2          | 5.2            | 5.2   | 89           | 83    | 0.00                             | 0.00 |
| Col7  | 0.1           | 5.3            | 5.3   | 1            | 85    | 0.00                             | 0.00 |
| Col8  | 17.2          | 5.2            | 5.2   | 89           | 83    | 0.00                             | 0.00 |
| Col9  | 17.0          | 5.0            | 5.0   | 88           | 80    | 0.00                             | 0.00 |
| Col10 | 16.7          | 4.7            | 4.7   | 87           | 77    | 0.00                             | 0.00 |
| Col11 | 16.5          | 4.5            | 4.5   | 86           | 73    | 0.00                             | 0.00 |
| Col12 | 16.3          | 4.3            | 4.3   | 85           | 70    | 0.00                             | 0.00 |
| Col13 | 16.1          | 4.1            | 4.1   | 84           | 66    | 0.00                             | 0.00 |

## GIRT LAYOUT:

| Bay Id | Girt Id | Locate | Part   | Design Length | Available Reduction Factor |      |
|--------|---------|--------|--------|---------------|----------------------------|------|
|        |         |        |        |               | Out                        | In   |
| 1      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 2      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 3      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 4      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 5      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 6      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 7      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 8      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 9      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 10     | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 11     | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 12     | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 13     | 1       | 4.000  | 6X2C16 | 4.625         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.625         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.625         | 0.00                       | 0.70 |

## GIRT ACTIONS:

| Bay Id | Girt Id | Load | -Shear(k) - |       | Moment(f-k) |       | Max UC | Deflect(in) |       |
|--------|---------|------|-------------|-------|-------------|-------|--------|-------------|-------|
|        |         |      | Calc        | Limit | Calc        | Limit |        | Calc        | Limit |
| 1      | 1       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.11        | 3.32  | 0.12        | 2.65  | 0.05   | 0.00        | 0.60  |
| 2      | 1       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.10       | 3.32  | -0.11       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.11        | 3.32  | 0.12        | 2.65  | 0.05   | 0.00        | 0.60  |
| 3      | 1       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.10       | 3.32  | -0.11       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.11        | 3.32  | 0.12        | 2.65  | 0.05   | 0.00        | 0.60  |
| 4      | 1       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |

|    |   |    |       |      |       |      |      |      |      |
|----|---|----|-------|------|-------|------|------|------|------|
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.12  | 2.65 | 0.05 | 0.00 | 0.60 |
| 5  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.12 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.60 |
| 6  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.12 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.12  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.60 |
| 7  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.12 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.12  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.60 |
| 8  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.12 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.60 |
| 9  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.12  | 2.65 | 0.05 | 0.00 | 0.60 |
| 10 | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.12  | 2.65 | 0.05 | 0.00 | 0.60 |
| 11 | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.12  | 2.65 | 0.04 | 0.00 | 0.60 |
| 12 | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.12  | 2.65 | 0.04 | 0.00 | 0.60 |
| 13 | 1 | WP | -0.09 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.62 |
|    |   | WS | 0.11  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.62 |

WP - Wind\_Pressure

WS - Wind\_Suction

PANEL DATA:

| Bay | Part    | Type | Gage  | Yield |
|-----|---------|------|-------|-------|
| 7   | CUSPANL | CP   | 20.00 | 50.0  |

MOMENTS & DEFLECTION:

| Span Id | Locate (ft) |       | Load | -----Moment (ft-lb/ft)----- |             |              |               |          |           | Deflect (in) |       |       |
|---------|-------------|-------|------|-----------------------------|-------------|--------------|---------------|----------|-----------|--------------|-------|-------|
|         | Start       | End   |      | Start Calc                  | Start Limit | Midspan Calc | Midspan Limit | End Calc | End Limit | Max UC       | Calc  | Limit |
| 1       | 0.00        | 4.00  | WP   | 0.0                         | 49.1        | -15.1        | 49.1          | 22.1     | 38.1      | 0.58         | -0.15 | 0.80  |
|         |             |       | WS   | 0.0                         | 38.1        | 20.1         | 38.1          | -29.5    | 49.1      | 0.60         | 0.20  | 0.80  |
| 2       | 4.00        | 8.00  | WP   | 22.1                        | 38.1        | -8.5         | 49.1          | 11.3     | 38.1      | 0.58         | -0.06 | 0.80  |
|         |             |       | WS   | -29.5                       | 49.1        | 11.4         | 38.1          | -15.0    | 49.1      | 0.60         | 0.08  | 0.80  |
| 3       | 8.00        | 12.00 | WP   | 11.3                        | 38.1        | -4.2         | 49.1          | 32.5     | 38.1      | 0.85         | 0.02  | 0.80  |
|         |             |       | WS   | -15.0                       | 49.1        | 5.6          | 38.1          | -43.3    | 49.1      | 0.88         | -0.02 | 0.80  |
| 4       | 12.00       | 17.23 | WP   | 32.5                        | 38.1        | -27.9        | 49.1          | 0.0      | 38.1      | 0.85         | -0.50 | 1.05  |
|         |             |       | WS   | -43.3                       | 49.1        | 37.2         | 38.1          | 0.0      | 38.1      | 0.98         | 0.67  | 1.05  |

WP - Wind\_Pressure  
WS - Wind\_Suction

PANEL:

| Part    | Thick (in) | Yield (ksi ) | Tensile Strength (ksi ) |
|---------|------------|--------------|-------------------------|
| CUSPANL | 0.038      | 50.00        | 65.00                   |

GIRT SCREWS:

| Part | Dia (in) | Washer (in) | Limit (k ) |
|------|----------|-------------|------------|
| #29  | 0.21     | 0.50        | 2.90       |

PANEL ZONE LAYOUT:

| Zone Id | Description | ---Wall (ft)--- |         | Bay Id | --Girt (ft, ft, in)-- |            |           | Panel Span (ft) |
|---------|-------------|-----------------|---------|--------|-----------------------|------------|-----------|-----------------|
|         |             | Offset1         | Offset2 |        | Locate                | Load Width | Min Thick |                 |
| 1       | Interior    | 6.43            | 58.57   | 7      | 4.00                  | 4.61       | 0.059     | 4.00            |
| 2       | Lt Edge     | 0.00            | 6.43    | 1      | 12.00                 | 4.09       | 0.059     | 4.19            |
| 3       | Rt Edge     | 58.57           | 65.00   | 13     | 4.00                  | 4.00       | 0.059     | 4.00            |

GIRT SCREW CHECK:

| Zone Id | Screw Space | Wind Suction (psf ) | Load (k ) | -----Limit (k )----- |                |               | Max UC |
|---------|-------------|---------------------|-----------|----------------------|----------------|---------------|--------|
|         |             |                     |           | Girt Pullout         | Panel Pullover | Screw Tension |        |
| 1       | 1.00        | 16.62               | 0.08      | 0.22                 | 0.61           | 0.77          | 0.35   |
| 2       | 1.00        | 16.62               | 0.07      | 0.22                 | 0.61           | 0.77          | 0.31   |
| 3       | 1.00        | 16.62               | 0.07      | 0.22                 | 0.61           | 0.77          | 0.30   |

WALL LAYOUT:

| Wall Id | Orn | Load Width |
|---------|-----|------------|
| 2       | L   | 2.50       |

MEMBER LAYOUT:

| Id     | Locate |        | ---Web (in)--- |       | -Flange (in)- |       | Length (ft) | Weight (lb) | ----Max_Load---- |      |         |
|--------|--------|--------|----------------|-------|---------------|-------|-------------|-------------|------------------|------|---------|
|        | (ft)   | Part   | Depth          | Thick | Width         | Thick |             |             | Id               | UC   | Report  |
| Col15  | 0.0    | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 15.9        | 34.8        | 17               | 0.09 | Mom+Axl |
| Col16  | 14.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 15.9        | 34.8        | 1                | 0.08 | Mom+Axl |
| Col17  | 28.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 15.9        | 34.8        | 1                | 0.12 | Mom+Axl |
| Col18  | 56.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 15.9        | 34.8        | 1                | 0.12 | Mom+Axl |
| Col19  | 70.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 15.9        | 34.8        | 17               | 0.09 | Mom+Axl |
| Raf1   |        | PB6EC  | 6.13           | 16ga  | 2.06          | 16ga  | 28.0        | 58.8        |                  |      |         |
| Raf2   |        | PB6EC  | 6.13           | 16ga  | 2.06          | 16ga  | 28.0        | 58.8        |                  |      |         |
| Raf3   |        | PB6EC  | 6.13           | 16ga  | 2.06          | 16ga  | 14.0        | 29.4        |                  |      |         |
| Total= |        |        |                |       |               |       |             | 320.8       |                  |      |         |

DESIGN ACTIONS/STRENGTH:

| Id    | Load Id | -Axial (k) - |       | -Shear (k) - |       | Moment (f-k ) |       | -----Unity_Check----- |       |        |        |
|-------|---------|--------------|-------|--------------|-------|---------------|-------|-----------------------|-------|--------|--------|
|       |         | Calc         | Limit | Calc         | Limit | Calc          | Limit | Axial                 | Shear | Moment | Shear+ |
| Col15 | 1       | 0.44         | 7.84  | 0.00         | 3.32  | 0.00          | 2.65  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col15 | 2       | 0.09         | 7.84  | 0.00         | 3.32  | 0.00          | 2.65  | 0.01                  | 0.00  | 0.01   | 0.00   |
| Col15 | 3       | 0.33         | 7.84  | 0.00         | 3.32  | 0.00          | 2.65  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col15 | 4       | 0.33         | 7.84  | 0.00         | 3.32  | 0.00          | 2.65  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col15 | 5       | 0.36         | 7.84  | 0.00         | 3.32  | 0.00          | 2.65  | 0.05                  | 0.00  | 0.05   | 0.00   |
| Col15 | 6       | 0.27         | 7.84  | 0.00         | 3.32  | 0.00          | 2.65  | 0.03                  | 0.00  | 0.03   | 0.00   |
| Col15 | 7       | 0.27         | 7.84  | 0.00         | 3.32  | 0.00          | 2.65  | 0.03                  | 0.00  | 0.03   | 0.00   |
| Col15 | 8       | -0.15        | 21.18 | 0.04         | 3.32  | -0.16         | 2.65  | 0.01                  | 0.01  | 0.05   | 0.00   |
| Col15 | 9       | -0.05        | 21.18 | 0.04         | 3.32  | -0.16         | 2.65  | 0.00                  | 0.01  | 0.06   | 0.00   |
| Col15 | 10      | -0.15        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.01                  | 0.01  | 0.06   | 0.00   |
| Col15 | 11      | -0.05        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col15 | 12      | -0.15        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.01                  | 0.01  | 0.06   | 0.00   |
| Col15 | 13      | -0.05        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col15 | 14      | -0.07        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col15 | 15      | 0.02         | 7.84  | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col15 | 16      | 0.24         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.03                  | 0.01  | 0.08   | 0.00   |
| Col15 | 17      | 0.31         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.04                  | 0.01  | 0.09   | 0.00   |
| Col15 | 18      | 0.18         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.08   | 0.00   |
| Col15 | 19      | 0.26         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.03                  | 0.01  | 0.09   | 0.00   |
| Col15 | 20      | 0.15         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.07   | 0.00   |
| Col15 | 21      | 0.22         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.03                  | 0.01  | 0.08   | 0.00   |
| Col15 | 22      | 0.10         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |
| Col15 | 23      | 0.17         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.07   | 0.00   |
| Col15 | 24      | 0.15         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.07   | 0.00   |
| Col15 | 25      | 0.22         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.03                  | 0.01  | 0.08   | 0.00   |
| Col15 | 26      | 0.10         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |
| Col15 | 27      | 0.17         | 7.84  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.07   | 0.00   |
| Col15 | 28      | -0.16        | 21.18 | 0.04         | 3.32  | -0.16         | 2.65  | 0.01                  | 0.01  | 0.05   | 0.00   |
| Col15 | 29      | -0.06        | 21.18 | 0.04         | 3.32  | -0.16         | 2.65  | 0.00                  | 0.01  | 0.06   | 0.00   |
| Col15 | 30      | -0.16        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.01                  | 0.01  | 0.06   | 0.00   |
| Col15 | 31      | -0.06        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col15 | 32      | -0.16        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.01                  | 0.01  | 0.06   | 0.00   |

|       |    |       |       |       |      |      |      |      |      |      |      |
|-------|----|-------|-------|-------|------|------|------|------|------|------|------|
| Col15 | 33 | -0.06 | 21.18 | -0.05 | 3.32 | 0.19 | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col15 | 34 | -0.09 | 21.18 | -0.05 | 3.32 | 0.19 | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col15 | 35 | 0.01  | 7.84  | -0.05 | 3.32 | 0.19 | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col15 | 36 | 0.09  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 37 | 0.09  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 38 | 0.36  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col15 | 39 | 0.36  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col15 | 40 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col15 | 41 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col15 | 42 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col15 | 43 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col15 | 44 | 0.07  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 45 | 0.07  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 46 | 0.37  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col15 | 47 | 0.19  | 7.84  | -0.04 | 3.32 | 0.14 | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col15 | 48 | 0.26  | 7.84  | -0.04 | 3.32 | 0.14 | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col15 | 49 | 0.09  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 50 | 0.09  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 51 | 0.07  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 52 | 0.07  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 53 | 0.33  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col15 | 54 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col15 | 55 | 0.27  | 7.84  | -0.04 | 3.32 | 0.14 | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col15 | 56 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col16 | 1  | 0.85  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col16 | 2  | 0.15  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 3  | 0.62  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col16 | 4  | 0.62  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col16 | 5  | 0.68  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col16 | 6  | 0.50  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 7  | 0.50  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 8  | -0.33 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 9  | -0.13 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 10 | -0.33 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 11 | -0.13 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 12 | -0.33 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 13 | -0.13 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 14 | -0.18 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 15 | 0.01  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col16 | 16 | 0.44  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col16 | 17 | 0.59  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col16 | 18 | 0.33  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col16 | 19 | 0.48  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 20 | 0.27  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col16 | 21 | 0.41  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col16 | 22 | 0.16  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 23 | 0.30  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col16 | 24 | 0.27  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col16 | 25 | 0.41  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col16 | 26 | 0.16  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 27 | 0.30  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col16 | 28 | -0.35 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 29 | -0.16 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 30 | -0.35 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 31 | -0.16 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 32 | -0.35 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 33 | -0.16 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 34 | -0.21 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 35 | -0.01 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col16 | 36 | 0.15  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 37 | 0.15  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 38 | 0.68  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col16 | 39 | 0.68  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col16 | 40 | 0.51  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 41 | 0.51  | 10.49 | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |



|       |    |       |       |      |      |      |      |      |      |      |      |
|-------|----|-------|-------|------|------|------|------|------|------|------|------|
| Col16 | 42 | 0.51  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 43 | 0.51  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 44 | 0.10  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 45 | 0.10  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 46 | 0.71  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col16 | 47 | 0.34  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col16 | 48 | 0.48  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 49 | 0.15  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 50 | 0.15  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 51 | 0.11  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 52 | 0.11  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 53 | 0.62  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col16 | 54 | 0.50  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 55 | 0.50  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 56 | 0.51  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col17 | 1  | 1.26  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col17 | 2  | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 3  | 0.91  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col17 | 4  | 0.91  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col17 | 5  | 1.00  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col17 | 6  | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 7  | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 8  | -0.51 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 9  | -0.22 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 10 | -0.51 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 11 | -0.22 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 12 | -0.51 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 13 | -0.22 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 14 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 15 | 0.00  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col17 | 16 | 0.64  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col17 | 17 | 0.86  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col17 | 18 | 0.48  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col17 | 19 | 0.70  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 20 | 0.38  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col17 | 21 | 0.60  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col17 | 22 | 0.22  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 23 | 0.44  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col17 | 24 | 0.38  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col17 | 25 | 0.60  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col17 | 26 | 0.22  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 27 | 0.44  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col17 | 28 | -0.55 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col17 | 29 | -0.26 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 30 | -0.55 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col17 | 31 | -0.26 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 32 | -0.55 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col17 | 33 | -0.26 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 34 | -0.33 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 35 | -0.04 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col17 | 36 | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 37 | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 38 | 1.00  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col17 | 39 | 1.00  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col17 | 40 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 41 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 42 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 43 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 44 | 0.14  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 45 | 0.14  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 46 | 1.05  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col17 | 47 | 0.49  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col17 | 48 | 0.70  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 49 | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 50 | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |

|       |    |       |       |      |      |      |      |      |      |      |      |
|-------|----|-------|-------|------|------|------|------|------|------|------|------|
| Col17 | 51 | 0.14  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 52 | 0.14  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 53 | 0.92  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col17 | 54 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 55 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 56 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 1  | 1.26  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col18 | 2  | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 3  | 0.91  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col18 | 4  | 0.91  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col18 | 5  | 1.00  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col18 | 6  | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 7  | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 8  | -0.51 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 9  | -0.22 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 10 | -0.51 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 11 | -0.22 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 12 | -0.51 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 13 | -0.22 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 14 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 15 | 0.00  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col18 | 16 | 0.64  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col18 | 17 | 0.86  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col18 | 18 | 0.48  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col18 | 19 | 0.70  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 20 | 0.38  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 21 | 0.60  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col18 | 22 | 0.22  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 23 | 0.44  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 24 | 0.38  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 25 | 0.60  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col18 | 26 | 0.22  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 27 | 0.44  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 28 | -0.55 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col18 | 29 | -0.26 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 30 | -0.55 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col18 | 31 | -0.26 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 32 | -0.55 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col18 | 33 | -0.26 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 34 | -0.33 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 35 | -0.04 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col18 | 36 | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 37 | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 38 | 1.00  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col18 | 39 | 1.00  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col18 | 40 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 41 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 42 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 43 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 44 | 0.14  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 45 | 0.14  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 46 | 1.05  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col18 | 47 | 0.49  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col18 | 48 | 0.70  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 49 | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 50 | 0.21  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col18 | 51 | 0.14  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 52 | 0.14  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 53 | 0.92  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col18 | 54 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 55 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col18 | 56 | 0.74  | 10.49 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col19 | 1  | 0.44  | 7.84  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col19 | 2  | 0.09  | 7.84  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col19 | 3  | 0.33  | 7.84  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col19 | 4  | 0.33  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col19 | 5  | 0.36  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col19 | 6  | 0.27  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col19 | 7  | 0.27  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col19 | 8  | -0.15 | 21.18 | 0.04  | 3.32 | -0.16 | 2.65 | 0.01 | 0.01 | 0.05 | 0.00 |
| Col19 | 9  | -0.05 | 21.18 | 0.04  | 3.32 | -0.16 | 2.65 | 0.00 | 0.01 | 0.06 | 0.00 |
| Col19 | 10 | -0.15 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.01 | 0.01 | 0.06 | 0.00 |
| Col19 | 11 | -0.05 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col19 | 12 | -0.15 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.01 | 0.01 | 0.06 | 0.00 |
| Col19 | 13 | -0.05 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col19 | 14 | -0.07 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col19 | 15 | 0.02  | 7.84  | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col19 | 16 | 0.24  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.08 | 0.00 |
| Col19 | 17 | 0.31  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.04 | 0.01 | 0.09 | 0.00 |
| Col19 | 18 | 0.18  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col19 | 19 | 0.26  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col19 | 20 | 0.15  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.07 | 0.00 |
| Col19 | 21 | 0.22  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.08 | 0.00 |
| Col19 | 22 | 0.10  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col19 | 23 | 0.17  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.07 | 0.00 |
| Col19 | 24 | 0.15  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.07 | 0.00 |
| Col19 | 25 | 0.22  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.08 | 0.00 |
| Col19 | 26 | 0.10  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col19 | 27 | 0.17  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.07 | 0.00 |
| Col19 | 28 | -0.16 | 21.18 | 0.04  | 3.32 | -0.16 | 2.65 | 0.01 | 0.01 | 0.05 | 0.00 |
| Col19 | 29 | -0.06 | 21.18 | 0.04  | 3.32 | -0.16 | 2.65 | 0.00 | 0.01 | 0.06 | 0.00 |
| Col19 | 30 | -0.16 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.01 | 0.01 | 0.06 | 0.00 |
| Col19 | 31 | -0.06 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col19 | 32 | -0.16 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.01 | 0.01 | 0.06 | 0.00 |
| Col19 | 33 | -0.06 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col19 | 34 | -0.09 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col19 | 35 | 0.01  | 7.84  | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col19 | 36 | 0.09  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col19 | 37 | 0.09  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col19 | 38 | 0.36  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col19 | 39 | 0.36  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col19 | 40 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col19 | 41 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col19 | 42 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col19 | 43 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col19 | 44 | 0.07  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col19 | 45 | 0.07  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col19 | 46 | 0.37  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col19 | 47 | 0.19  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col19 | 48 | 0.26  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col19 | 49 | 0.09  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col19 | 50 | 0.09  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col19 | 51 | 0.07  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col19 | 52 | 0.07  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col19 | 53 | 0.33  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col19 | 54 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col19 | 55 | 0.27  | 7.84  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col19 | 56 | 0.27  | 7.84  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |

|      |    |      |      |      |      |      |      |      |      |      |      |
|------|----|------|------|------|------|------|------|------|------|------|------|
| Raf1 | 1  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 2  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 3  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 4  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 5  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 6  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 7  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 8  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 9  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 10 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 11 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |





|      |    |      |      |      |      |      |      |      |      |      |      |
|------|----|------|------|------|------|------|------|------|------|------|------|
| Raf3 | 30 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 31 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 32 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 33 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 34 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 35 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 36 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 37 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 38 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 39 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 40 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 41 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 42 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 43 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 44 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 45 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 46 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 47 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 48 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 49 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 50 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 51 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 52 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 53 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 54 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 55 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf3 | 56 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |

COLUMN REACTIONS:

| Id     | Load |          | In_Plane<br>Horz(k ) | Out_Plane<br>Horz(k ) |
|--------|------|----------|----------------------|-----------------------|
|        | Id   | Vert(k ) |                      |                       |
| Col115 | 1    | 0.44     | 0.00                 | 0.00                  |
| Col115 | 2    | 0.09     | 0.00                 | 0.00                  |
| Col115 | 3    | 0.33     | 0.00                 | 0.00                  |
| Col115 | 4    | 0.33     | 0.00                 | 0.00                  |
| Col115 | 5    | 0.36     | 0.00                 | 0.00                  |
| Col115 | 6    | 0.27     | 0.00                 | 0.00                  |
| Col115 | 7    | 0.27     | 0.00                 | 0.00                  |
| Col115 | 8    | -0.15    | 0.00                 | -0.04                 |
| Col115 | 9    | -0.05    | 0.00                 | -0.04                 |
| Col115 | 10   | -0.15    | 0.00                 | 0.05                  |
| Col115 | 11   | -0.05    | 0.00                 | 0.05                  |
| Col115 | 12   | -0.15    | 0.00                 | 0.05                  |
| Col115 | 13   | -0.05    | 0.00                 | 0.05                  |
| Col115 | 14   | -0.07    | 0.00                 | 0.05                  |
| Col115 | 15   | 0.02     | 0.00                 | 0.05                  |
| Col115 | 16   | 0.24     | 0.00                 | 0.04                  |
| Col115 | 17   | 0.31     | 0.00                 | 0.04                  |
| Col115 | 18   | 0.18     | 0.00                 | 0.04                  |
| Col115 | 19   | 0.26     | 0.00                 | 0.04                  |
| Col115 | 20   | 0.15     | 0.00                 | 0.04                  |
| Col115 | 21   | 0.22     | 0.00                 | 0.04                  |
| Col115 | 22   | 0.10     | 0.00                 | 0.04                  |
| Col115 | 23   | 0.17     | 0.00                 | 0.04                  |
| Col115 | 24   | 0.15     | 0.00                 | 0.04                  |
| Col115 | 25   | 0.22     | 0.00                 | 0.04                  |
| Col115 | 26   | 0.10     | 0.00                 | 0.04                  |
| Col115 | 27   | 0.17     | 0.00                 | 0.04                  |
| Col115 | 28   | -0.16    | 0.00                 | -0.04                 |
| Col115 | 29   | -0.06    | 0.00                 | -0.04                 |
| Col115 | 30   | -0.16    | 0.00                 | 0.05                  |
| Col115 | 31   | -0.06    | 0.00                 | 0.05                  |
| Col115 | 32   | -0.16    | 0.00                 | 0.05                  |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col15 | 33 | -0.06 | 0.00 | 0.05 |
| Col15 | 34 | -0.09 | 0.00 | 0.05 |
| Col15 | 35 | 0.01  | 0.00 | 0.05 |
| Col15 | 36 | 0.09  | 0.00 | 0.00 |
| Col15 | 37 | 0.09  | 0.00 | 0.00 |
| Col15 | 38 | 0.36  | 0.00 | 0.00 |
| Col15 | 39 | 0.36  | 0.00 | 0.00 |
| Col15 | 40 | 0.27  | 0.00 | 0.00 |
| Col15 | 41 | 0.27  | 0.00 | 0.00 |
| Col15 | 42 | 0.27  | 0.00 | 0.00 |
| Col15 | 43 | 0.27  | 0.00 | 0.00 |
| Col15 | 44 | 0.07  | 0.00 | 0.00 |
| Col15 | 45 | 0.07  | 0.00 | 0.00 |
| Col15 | 46 | 0.37  | 0.00 | 0.00 |
| Col15 | 47 | 0.19  | 0.00 | 0.04 |
| Col15 | 48 | 0.26  | 0.00 | 0.04 |
| Col15 | 49 | 0.09  | 0.00 | 0.00 |
| Col15 | 50 | 0.09  | 0.00 | 0.00 |
| Col15 | 51 | 0.07  | 0.00 | 0.00 |
| Col15 | 52 | 0.07  | 0.00 | 0.00 |
| Col15 | 53 | 0.33  | 0.00 | 0.00 |
| Col15 | 54 | 0.27  | 0.00 | 0.00 |
| Col15 | 55 | 0.27  | 0.00 | 0.04 |
| Col15 | 56 | 0.27  | 0.00 | 0.00 |
| Col16 | 1  | 0.85  | 0.00 | 0.00 |
| Col16 | 2  | 0.15  | 0.00 | 0.00 |
| Col16 | 3  | 0.62  | 0.00 | 0.00 |
| Col16 | 4  | 0.62  | 0.00 | 0.00 |
| Col16 | 5  | 0.68  | 0.00 | 0.00 |
| Col16 | 6  | 0.50  | 0.00 | 0.00 |
| Col16 | 7  | 0.50  | 0.00 | 0.00 |
| Col16 | 8  | -0.33 | 0.00 | 0.00 |
| Col16 | 9  | -0.13 | 0.00 | 0.00 |
| Col16 | 10 | -0.33 | 0.00 | 0.00 |
| Col16 | 11 | -0.13 | 0.00 | 0.00 |
| Col16 | 12 | -0.33 | 0.00 | 0.00 |
| Col16 | 13 | -0.13 | 0.00 | 0.00 |
| Col16 | 14 | -0.18 | 0.00 | 0.00 |
| Col16 | 15 | 0.01  | 0.00 | 0.00 |
| Col16 | 16 | 0.44  | 0.00 | 0.00 |
| Col16 | 17 | 0.59  | 0.00 | 0.00 |
| Col16 | 18 | 0.33  | 0.00 | 0.00 |
| Col16 | 19 | 0.48  | 0.00 | 0.00 |
| Col16 | 20 | 0.27  | 0.00 | 0.00 |
| Col16 | 21 | 0.41  | 0.00 | 0.00 |
| Col16 | 22 | 0.16  | 0.00 | 0.00 |
| Col16 | 23 | 0.30  | 0.00 | 0.00 |
| Col16 | 24 | 0.27  | 0.00 | 0.00 |
| Col16 | 25 | 0.41  | 0.00 | 0.00 |
| Col16 | 26 | 0.16  | 0.00 | 0.00 |
| Col16 | 27 | 0.30  | 0.00 | 0.00 |
| Col16 | 28 | -0.35 | 0.00 | 0.00 |
| Col16 | 29 | -0.16 | 0.00 | 0.00 |
| Col16 | 30 | -0.35 | 0.00 | 0.00 |
| Col16 | 31 | -0.16 | 0.00 | 0.00 |
| Col16 | 32 | -0.35 | 0.00 | 0.00 |
| Col16 | 33 | -0.16 | 0.00 | 0.00 |
| Col16 | 34 | -0.21 | 0.00 | 0.00 |
| Col16 | 35 | -0.01 | 0.00 | 0.00 |
| Col16 | 36 | 0.15  | 0.00 | 0.00 |
| Col16 | 37 | 0.15  | 0.00 | 0.00 |
| Col16 | 38 | 0.68  | 0.00 | 0.00 |
| Col16 | 39 | 0.68  | 0.00 | 0.00 |
| Col16 | 40 | 0.51  | 0.00 | 0.00 |
| Col16 | 41 | 0.51  | 0.00 | 0.00 |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col16 | 42 | 0.51  | 0.00 | 0.00 |
| Col16 | 43 | 0.51  | 0.00 | 0.00 |
| Col16 | 44 | 0.10  | 0.00 | 0.00 |
| Col16 | 45 | 0.10  | 0.00 | 0.00 |
| Col16 | 46 | 0.71  | 0.00 | 0.00 |
| Col16 | 47 | 0.34  | 0.00 | 0.00 |
| Col16 | 48 | 0.48  | 0.00 | 0.00 |
| Col16 | 49 | 0.15  | 0.00 | 0.00 |
| Col16 | 50 | 0.15  | 0.00 | 0.00 |
| Col16 | 51 | 0.11  | 0.00 | 0.00 |
| Col16 | 52 | 0.11  | 0.00 | 0.00 |
| Col16 | 53 | 0.62  | 0.00 | 0.00 |
| Col16 | 54 | 0.50  | 0.00 | 0.00 |
| Col16 | 55 | 0.50  | 0.00 | 0.00 |
| Col16 | 56 | 0.51  | 0.00 | 0.00 |
| Col17 | 1  | 1.26  | 0.00 | 0.00 |
| Col17 | 2  | 0.21  | 0.00 | 0.00 |
| Col17 | 3  | 0.91  | 0.00 | 0.00 |
| Col17 | 4  | 0.91  | 0.00 | 0.00 |
| Col17 | 5  | 1.00  | 0.00 | 0.00 |
| Col17 | 6  | 0.74  | 0.00 | 0.00 |
| Col17 | 7  | 0.74  | 0.00 | 0.00 |
| Col17 | 8  | -0.51 | 0.00 | 0.00 |
| Col17 | 9  | -0.22 | 0.00 | 0.00 |
| Col17 | 10 | -0.51 | 0.00 | 0.00 |
| Col17 | 11 | -0.22 | 0.00 | 0.00 |
| Col17 | 12 | -0.51 | 0.00 | 0.00 |
| Col17 | 13 | -0.22 | 0.00 | 0.00 |
| Col17 | 14 | -0.29 | 0.00 | 0.00 |
| Col17 | 15 | 0.00  | 0.00 | 0.00 |
| Col17 | 16 | 0.64  | 0.00 | 0.00 |
| Col17 | 17 | 0.86  | 0.00 | 0.00 |
| Col17 | 18 | 0.48  | 0.00 | 0.00 |
| Col17 | 19 | 0.70  | 0.00 | 0.00 |
| Col17 | 20 | 0.38  | 0.00 | 0.00 |
| Col17 | 21 | 0.60  | 0.00 | 0.00 |
| Col17 | 22 | 0.22  | 0.00 | 0.00 |
| Col17 | 23 | 0.44  | 0.00 | 0.00 |
| Col17 | 24 | 0.38  | 0.00 | 0.00 |
| Col17 | 25 | 0.60  | 0.00 | 0.00 |
| Col17 | 26 | 0.22  | 0.00 | 0.00 |
| Col17 | 27 | 0.44  | 0.00 | 0.00 |
| Col17 | 28 | -0.55 | 0.00 | 0.00 |
| Col17 | 29 | -0.26 | 0.00 | 0.00 |
| Col17 | 30 | -0.55 | 0.00 | 0.00 |
| Col17 | 31 | -0.26 | 0.00 | 0.00 |
| Col17 | 32 | -0.55 | 0.00 | 0.00 |
| Col17 | 33 | -0.26 | 0.00 | 0.00 |
| Col17 | 34 | -0.33 | 0.00 | 0.00 |
| Col17 | 35 | -0.04 | 0.00 | 0.00 |
| Col17 | 36 | 0.21  | 0.00 | 0.00 |
| Col17 | 37 | 0.21  | 0.00 | 0.00 |
| Col17 | 38 | 1.00  | 0.00 | 0.00 |
| Col17 | 39 | 1.00  | 0.00 | 0.00 |
| Col17 | 40 | 0.74  | 0.00 | 0.00 |
| Col17 | 41 | 0.74  | 0.00 | 0.00 |
| Col17 | 42 | 0.74  | 0.00 | 0.00 |
| Col17 | 43 | 0.74  | 0.00 | 0.00 |
| Col17 | 44 | 0.14  | 0.00 | 0.00 |
| Col17 | 45 | 0.14  | 0.00 | 0.00 |
| Col17 | 46 | 1.05  | 0.00 | 0.00 |
| Col17 | 47 | 0.49  | 0.00 | 0.00 |
| Col17 | 48 | 0.70  | 0.00 | 0.00 |
| Col17 | 49 | 0.21  | 0.00 | 0.00 |
| Col17 | 50 | 0.21  | 0.00 | 0.00 |



|       |    |       |      |      |
|-------|----|-------|------|------|
| Col17 | 51 | 0.14  | 0.00 | 0.00 |
| Col17 | 52 | 0.14  | 0.00 | 0.00 |
| Col17 | 53 | 0.92  | 0.00 | 0.00 |
| Col17 | 54 | 0.74  | 0.00 | 0.00 |
| Col17 | 55 | 0.74  | 0.00 | 0.00 |
| Col17 | 56 | 0.74  | 0.00 | 0.00 |
| Col18 | 1  | 1.26  | 0.00 | 0.00 |
| Col18 | 2  | 0.21  | 0.00 | 0.00 |
| Col18 | 3  | 0.91  | 0.00 | 0.00 |
| Col18 | 4  | 0.91  | 0.00 | 0.00 |
| Col18 | 5  | 1.00  | 0.00 | 0.00 |
| Col18 | 6  | 0.74  | 0.00 | 0.00 |
| Col18 | 7  | 0.74  | 0.00 | 0.00 |
| Col18 | 8  | -0.51 | 0.00 | 0.00 |
| Col18 | 9  | -0.22 | 0.00 | 0.00 |
| Col18 | 10 | -0.51 | 0.00 | 0.00 |
| Col18 | 11 | -0.22 | 0.00 | 0.00 |
| Col18 | 12 | -0.51 | 0.00 | 0.00 |
| Col18 | 13 | -0.22 | 0.00 | 0.00 |
| Col18 | 14 | -0.29 | 0.00 | 0.00 |
| Col18 | 15 | 0.00  | 0.00 | 0.00 |
| Col18 | 16 | 0.64  | 0.00 | 0.00 |
| Col18 | 17 | 0.86  | 0.00 | 0.00 |
| Col18 | 18 | 0.48  | 0.00 | 0.00 |
| Col18 | 19 | 0.70  | 0.00 | 0.00 |
| Col18 | 20 | 0.38  | 0.00 | 0.00 |
| Col18 | 21 | 0.60  | 0.00 | 0.00 |
| Col18 | 22 | 0.22  | 0.00 | 0.00 |
| Col18 | 23 | 0.44  | 0.00 | 0.00 |
| Col18 | 24 | 0.38  | 0.00 | 0.00 |
| Col18 | 25 | 0.60  | 0.00 | 0.00 |
| Col18 | 26 | 0.22  | 0.00 | 0.00 |
| Col18 | 27 | 0.44  | 0.00 | 0.00 |
| Col18 | 28 | -0.55 | 0.00 | 0.00 |
| Col18 | 29 | -0.26 | 0.00 | 0.00 |
| Col18 | 30 | -0.55 | 0.00 | 0.00 |
| Col18 | 31 | -0.26 | 0.00 | 0.00 |
| Col18 | 32 | -0.55 | 0.00 | 0.00 |
| Col18 | 33 | -0.26 | 0.00 | 0.00 |
| Col18 | 34 | -0.33 | 0.00 | 0.00 |
| Col18 | 35 | -0.04 | 0.00 | 0.00 |
| Col18 | 36 | 0.21  | 0.00 | 0.00 |
| Col18 | 37 | 0.21  | 0.00 | 0.00 |
| Col18 | 38 | 1.00  | 0.00 | 0.00 |
| Col18 | 39 | 1.00  | 0.00 | 0.00 |
| Col18 | 40 | 0.74  | 0.00 | 0.00 |
| Col18 | 41 | 0.74  | 0.00 | 0.00 |
| Col18 | 42 | 0.74  | 0.00 | 0.00 |
| Col18 | 43 | 0.74  | 0.00 | 0.00 |
| Col18 | 44 | 0.14  | 0.00 | 0.00 |
| Col18 | 45 | 0.14  | 0.00 | 0.00 |
| Col18 | 46 | 1.05  | 0.00 | 0.00 |
| Col18 | 47 | 0.49  | 0.00 | 0.00 |
| Col18 | 48 | 0.70  | 0.00 | 0.00 |
| Col18 | 49 | 0.21  | 0.00 | 0.00 |
| Col18 | 50 | 0.21  | 0.00 | 0.00 |
| Col18 | 51 | 0.14  | 0.00 | 0.00 |
| Col18 | 52 | 0.14  | 0.00 | 0.00 |
| Col18 | 53 | 0.92  | 0.00 | 0.00 |
| Col18 | 54 | 0.74  | 0.00 | 0.00 |
| Col18 | 55 | 0.74  | 0.00 | 0.00 |
| Col18 | 56 | 0.74  | 0.00 | 0.00 |
| Col19 | 1  | 0.44  | 0.00 | 0.00 |
| Col19 | 2  | 0.09  | 0.00 | 0.00 |
| Col19 | 3  | 0.33  | 0.00 | 0.00 |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col19 | 4  | 0.33  | 0.00 | 0.00  |
| Col19 | 5  | 0.36  | 0.00 | 0.00  |
| Col19 | 6  | 0.27  | 0.00 | 0.00  |
| Col19 | 7  | 0.27  | 0.00 | 0.00  |
| Col19 | 8  | -0.15 | 0.00 | -0.04 |
| Col19 | 9  | -0.05 | 0.00 | -0.04 |
| Col19 | 10 | -0.15 | 0.00 | 0.05  |
| Col19 | 11 | -0.05 | 0.00 | 0.05  |
| Col19 | 12 | -0.15 | 0.00 | 0.05  |
| Col19 | 13 | -0.05 | 0.00 | 0.05  |
| Col19 | 14 | -0.07 | 0.00 | 0.05  |
| Col19 | 15 | 0.02  | 0.00 | 0.05  |
| Col19 | 16 | 0.24  | 0.00 | 0.04  |
| Col19 | 17 | 0.31  | 0.00 | 0.04  |
| Col19 | 18 | 0.18  | 0.00 | 0.04  |
| Col19 | 19 | 0.26  | 0.00 | 0.04  |
| Col19 | 20 | 0.15  | 0.00 | 0.04  |
| Col19 | 21 | 0.22  | 0.00 | 0.04  |
| Col19 | 22 | 0.10  | 0.00 | 0.04  |
| Col19 | 23 | 0.17  | 0.00 | 0.04  |
| Col19 | 24 | 0.15  | 0.00 | 0.04  |
| Col19 | 25 | 0.22  | 0.00 | 0.04  |
| Col19 | 26 | 0.10  | 0.00 | 0.04  |
| Col19 | 27 | 0.17  | 0.00 | 0.04  |
| Col19 | 28 | -0.16 | 0.00 | -0.04 |
| Col19 | 29 | -0.06 | 0.00 | -0.04 |
| Col19 | 30 | -0.16 | 0.00 | 0.05  |
| Col19 | 31 | -0.06 | 0.00 | 0.05  |
| Col19 | 32 | -0.16 | 0.00 | 0.05  |
| Col19 | 33 | -0.06 | 0.00 | 0.05  |
| Col19 | 34 | -0.09 | 0.00 | 0.05  |
| Col19 | 35 | 0.01  | 0.00 | 0.05  |
| Col19 | 36 | 0.09  | 0.00 | 0.00  |
| Col19 | 37 | 0.09  | 0.00 | 0.00  |
| Col19 | 38 | 0.36  | 0.00 | 0.00  |
| Col19 | 39 | 0.36  | 0.00 | 0.00  |
| Col19 | 40 | 0.27  | 0.00 | 0.00  |
| Col19 | 41 | 0.27  | 0.00 | 0.00  |
| Col19 | 42 | 0.27  | 0.00 | 0.00  |
| Col19 | 43 | 0.27  | 0.00 | 0.00  |
| Col19 | 44 | 0.07  | 0.00 | 0.00  |
| Col19 | 45 | 0.07  | 0.00 | 0.00  |
| Col19 | 46 | 0.37  | 0.00 | 0.00  |
| Col19 | 47 | 0.19  | 0.00 | 0.04  |
| Col19 | 48 | 0.26  | 0.00 | 0.04  |
| Col19 | 49 | 0.09  | 0.00 | 0.00  |
| Col19 | 50 | 0.09  | 0.00 | 0.00  |
| Col19 | 51 | 0.07  | 0.00 | 0.00  |
| Col19 | 52 | 0.07  | 0.00 | 0.00  |
| Col19 | 53 | 0.33  | 0.00 | 0.00  |
| Col19 | 54 | 0.27  | 0.00 | 0.00  |
| Col19 | 55 | 0.27  | 0.00 | 0.04  |
| Col19 | 56 | 0.27  | 0.00 | 0.00  |

COLUMN DEFLECTIONS:

| Id    | Load | Deflection(in) |       |
|-------|------|----------------|-------|
|       | Id   | Calc           | Limit |
| Col15 | 1    | 0.00           | 1.06  |
| Col15 | 2    | 0.00           | 1.06  |
| Col15 | 3    | 0.00           | 1.06  |
| Col15 | 4    | 0.00           | 1.06  |
| Col15 | 5    | 0.00           | 1.06  |
| Col15 | 6    | 0.00           | 1.06  |

|       |    |       |      |
|-------|----|-------|------|
| Col15 | 7  | 0.00  | 1.06 |
| Col15 | 8  | -0.07 | 1.06 |
| Col15 | 9  | -0.07 | 1.06 |
| Col15 | 10 | 0.08  | 1.06 |
| Col15 | 11 | 0.08  | 1.06 |
| Col15 | 12 | 0.08  | 1.06 |
| Col15 | 13 | 0.08  | 1.06 |
| Col15 | 14 | 0.08  | 1.06 |
| Col15 | 15 | 0.08  | 1.06 |
| Col15 | 16 | 0.06  | 1.06 |
| Col15 | 17 | 0.06  | 1.06 |
| Col15 | 18 | 0.06  | 1.06 |
| Col15 | 19 | 0.06  | 1.06 |
| Col15 | 20 | 0.06  | 1.06 |
| Col15 | 21 | 0.06  | 1.06 |
| Col15 | 22 | 0.06  | 1.06 |
| Col15 | 23 | 0.06  | 1.06 |
| Col15 | 24 | 0.06  | 1.06 |
| Col15 | 25 | 0.06  | 1.06 |
| Col15 | 26 | 0.06  | 1.06 |
| Col15 | 27 | 0.06  | 1.06 |
| Col15 | 28 | -0.07 | 1.06 |
| Col15 | 29 | -0.07 | 1.06 |
| Col15 | 30 | 0.08  | 1.06 |
| Col15 | 31 | 0.08  | 1.06 |
| Col15 | 32 | 0.08  | 1.06 |
| Col15 | 33 | 0.08  | 1.06 |
| Col15 | 34 | 0.08  | 1.06 |
| Col15 | 35 | 0.08  | 1.06 |
| Col15 | 36 | 0.00  | 1.06 |
| Col15 | 37 | 0.00  | 1.06 |
| Col15 | 38 | 0.00  | 1.06 |
| Col15 | 39 | 0.00  | 1.06 |
| Col15 | 40 | 0.00  | 1.06 |
| Col15 | 41 | 0.00  | 1.06 |
| Col15 | 42 | 0.00  | 1.06 |
| Col15 | 43 | 0.00  | 1.06 |
| Col15 | 44 | 0.00  | 1.06 |
| Col15 | 45 | 0.00  | 1.06 |
| Col15 | 46 | 0.00  | 1.06 |
| Col15 | 47 | 0.03  | 1.06 |
| Col15 | 48 | 0.03  | 1.06 |
| Col15 | 49 | 0.00  | 1.06 |
| Col15 | 50 | 0.00  | 1.06 |
| Col15 | 51 | 0.06  | 1.06 |
| Col15 | 52 | 0.00  | 1.06 |
| Col16 | 1  | 0.00  | 1.06 |
| Col16 | 2  | 0.00  | 1.06 |
| Col16 | 3  | 0.00  | 1.06 |
| Col16 | 4  | 0.00  | 1.06 |
| Col16 | 5  | 0.00  | 1.06 |
| Col16 | 6  | 0.00  | 1.06 |
| Col16 | 7  | 0.00  | 1.06 |
| Col16 | 8  | 0.00  | 1.06 |
| Col16 | 9  | 0.00  | 1.06 |
| Col16 | 10 | 0.00  | 1.06 |
| Col16 | 11 | 0.00  | 1.06 |
| Col16 | 12 | 0.00  | 1.06 |
| Col16 | 13 | 0.00  | 1.06 |
| Col16 | 14 | 0.00  | 1.06 |
| Col16 | 15 | 0.00  | 1.06 |
| Col16 | 16 | 0.00  | 1.06 |
| Col16 | 17 | 0.00  | 1.06 |
| Col16 | 18 | 0.00  | 1.06 |
| Col16 | 19 | 0.00  | 1.06 |

|       |    |      |      |
|-------|----|------|------|
| Col16 | 20 | 0.00 | 1.06 |
| Col16 | 21 | 0.00 | 1.06 |
| Col16 | 22 | 0.00 | 1.06 |
| Col16 | 23 | 0.00 | 1.06 |
| Col16 | 24 | 0.00 | 1.06 |
| Col16 | 25 | 0.00 | 1.06 |
| Col16 | 26 | 0.00 | 1.06 |
| Col16 | 27 | 0.00 | 1.06 |
| Col16 | 28 | 0.00 | 1.06 |
| Col16 | 29 | 0.00 | 1.06 |
| Col16 | 30 | 0.00 | 1.06 |
| Col16 | 31 | 0.00 | 1.06 |
| Col16 | 32 | 0.00 | 1.06 |
| Col16 | 33 | 0.00 | 1.06 |
| Col16 | 34 | 0.00 | 1.06 |
| Col16 | 35 | 0.00 | 1.06 |
| Col16 | 36 | 0.00 | 1.06 |
| Col16 | 37 | 0.00 | 1.06 |
| Col16 | 38 | 0.00 | 1.06 |
| Col16 | 39 | 0.00 | 1.06 |
| Col16 | 40 | 0.00 | 1.06 |
| Col16 | 41 | 0.00 | 1.06 |
| Col16 | 42 | 0.00 | 1.06 |
| Col16 | 43 | 0.00 | 1.06 |
| Col16 | 44 | 0.00 | 1.06 |
| Col16 | 45 | 0.00 | 1.06 |
| Col16 | 46 | 0.00 | 1.06 |
| Col16 | 47 | 0.00 | 1.06 |
| Col16 | 48 | 0.00 | 1.06 |
| Col16 | 49 | 0.00 | 1.06 |
| Col16 | 50 | 0.00 | 1.06 |
| Col16 | 51 | 0.00 | 1.06 |
| Col16 | 52 | 0.00 | 1.06 |
| Col17 | 1  | 0.00 | 1.06 |
| Col17 | 2  | 0.00 | 1.06 |
| Col17 | 3  | 0.00 | 1.06 |
| Col17 | 4  | 0.00 | 1.06 |
| Col17 | 5  | 0.00 | 1.06 |
| Col17 | 6  | 0.00 | 1.06 |
| Col17 | 7  | 0.00 | 1.06 |
| Col17 | 8  | 0.00 | 1.06 |
| Col17 | 9  | 0.00 | 1.06 |
| Col17 | 10 | 0.00 | 1.06 |
| Col17 | 11 | 0.00 | 1.06 |
| Col17 | 12 | 0.00 | 1.06 |
| Col17 | 13 | 0.00 | 1.06 |
| Col17 | 14 | 0.00 | 1.06 |
| Col17 | 15 | 0.00 | 1.06 |
| Col17 | 16 | 0.00 | 1.06 |
| Col17 | 17 | 0.00 | 1.06 |
| Col17 | 18 | 0.00 | 1.06 |
| Col17 | 19 | 0.00 | 1.06 |
| Col17 | 20 | 0.00 | 1.06 |
| Col17 | 21 | 0.00 | 1.06 |
| Col17 | 22 | 0.00 | 1.06 |
| Col17 | 23 | 0.00 | 1.06 |
| Col17 | 24 | 0.00 | 1.06 |
| Col17 | 25 | 0.00 | 1.06 |
| Col17 | 26 | 0.00 | 1.06 |
| Col17 | 27 | 0.00 | 1.06 |
| Col17 | 28 | 0.00 | 1.06 |
| Col17 | 29 | 0.00 | 1.06 |
| Col17 | 30 | 0.00 | 1.06 |
| Col17 | 31 | 0.00 | 1.06 |
| Col17 | 32 | 0.00 | 1.06 |

|       |    |      |      |
|-------|----|------|------|
| Col17 | 33 | 0.00 | 1.06 |
| Col17 | 34 | 0.00 | 1.06 |
| Col17 | 35 | 0.00 | 1.06 |
| Col17 | 36 | 0.00 | 1.06 |
| Col17 | 37 | 0.00 | 1.06 |
| Col17 | 38 | 0.00 | 1.06 |
| Col17 | 39 | 0.00 | 1.06 |
| Col17 | 40 | 0.00 | 1.06 |
| Col17 | 41 | 0.00 | 1.06 |
| Col17 | 42 | 0.00 | 1.06 |
| Col17 | 43 | 0.00 | 1.06 |
| Col17 | 44 | 0.00 | 1.06 |
| Col17 | 45 | 0.00 | 1.06 |
| Col17 | 46 | 0.00 | 1.06 |
| Col17 | 47 | 0.00 | 1.06 |
| Col17 | 48 | 0.00 | 1.06 |
| Col17 | 49 | 0.00 | 1.06 |
| Col17 | 50 | 0.00 | 1.06 |
| Col17 | 51 | 0.00 | 1.06 |
| Col17 | 52 | 0.00 | 1.06 |
| Col18 | 1  | 0.00 | 1.06 |
| Col18 | 2  | 0.00 | 1.06 |
| Col18 | 3  | 0.00 | 1.06 |
| Col18 | 4  | 0.00 | 1.06 |
| Col18 | 5  | 0.00 | 1.06 |
| Col18 | 6  | 0.00 | 1.06 |
| Col18 | 7  | 0.00 | 1.06 |
| Col18 | 8  | 0.00 | 1.06 |
| Col18 | 9  | 0.00 | 1.06 |
| Col18 | 10 | 0.00 | 1.06 |
| Col18 | 11 | 0.00 | 1.06 |
| Col18 | 12 | 0.00 | 1.06 |
| Col18 | 13 | 0.00 | 1.06 |
| Col18 | 14 | 0.00 | 1.06 |
| Col18 | 15 | 0.00 | 1.06 |
| Col18 | 16 | 0.00 | 1.06 |
| Col18 | 17 | 0.00 | 1.06 |
| Col18 | 18 | 0.00 | 1.06 |
| Col18 | 19 | 0.00 | 1.06 |
| Col18 | 20 | 0.00 | 1.06 |
| Col18 | 21 | 0.00 | 1.06 |
| Col18 | 22 | 0.00 | 1.06 |
| Col18 | 23 | 0.00 | 1.06 |
| Col18 | 24 | 0.00 | 1.06 |
| Col18 | 25 | 0.00 | 1.06 |
| Col18 | 26 | 0.00 | 1.06 |
| Col18 | 27 | 0.00 | 1.06 |
| Col18 | 28 | 0.00 | 1.06 |
| Col18 | 29 | 0.00 | 1.06 |
| Col18 | 30 | 0.00 | 1.06 |
| Col18 | 31 | 0.00 | 1.06 |
| Col18 | 32 | 0.00 | 1.06 |
| Col18 | 33 | 0.00 | 1.06 |
| Col18 | 34 | 0.00 | 1.06 |
| Col18 | 35 | 0.00 | 1.06 |
| Col18 | 36 | 0.00 | 1.06 |
| Col18 | 37 | 0.00 | 1.06 |
| Col18 | 38 | 0.00 | 1.06 |
| Col18 | 39 | 0.00 | 1.06 |
| Col18 | 40 | 0.00 | 1.06 |
| Col18 | 41 | 0.00 | 1.06 |
| Col18 | 42 | 0.00 | 1.06 |
| Col18 | 43 | 0.00 | 1.06 |
| Col18 | 44 | 0.00 | 1.06 |
| Col18 | 45 | 0.00 | 1.06 |

|       |    |       |      |
|-------|----|-------|------|
| Col18 | 46 | 0.00  | 1.06 |
| Col18 | 47 | 0.00  | 1.06 |
| Col18 | 48 | 0.00  | 1.06 |
| Col18 | 49 | 0.00  | 1.06 |
| Col18 | 50 | 0.00  | 1.06 |
| Col18 | 51 | 0.00  | 1.06 |
| Col18 | 52 | 0.00  | 1.06 |
| Col19 | 1  | 0.00  | 1.06 |
| Col19 | 2  | 0.00  | 1.06 |
| Col19 | 3  | 0.00  | 1.06 |
| Col19 | 4  | 0.00  | 1.06 |
| Col19 | 5  | 0.00  | 1.06 |
| Col19 | 6  | 0.00  | 1.06 |
| Col19 | 7  | 0.00  | 1.06 |
| Col19 | 8  | -0.07 | 1.06 |
| Col19 | 9  | -0.07 | 1.06 |
| Col19 | 10 | 0.08  | 1.06 |
| Col19 | 11 | 0.08  | 1.06 |
| Col19 | 12 | 0.08  | 1.06 |
| Col19 | 13 | 0.08  | 1.06 |
| Col19 | 14 | 0.08  | 1.06 |
| Col19 | 15 | 0.08  | 1.06 |
| Col19 | 16 | 0.06  | 1.06 |
| Col19 | 17 | 0.06  | 1.06 |
| Col19 | 18 | 0.06  | 1.06 |
| Col19 | 19 | 0.06  | 1.06 |
| Col19 | 20 | 0.06  | 1.06 |
| Col19 | 21 | 0.06  | 1.06 |
| Col19 | 22 | 0.06  | 1.06 |
| Col19 | 23 | 0.06  | 1.06 |
| Col19 | 24 | 0.06  | 1.06 |
| Col19 | 25 | 0.06  | 1.06 |
| Col19 | 26 | 0.06  | 1.06 |
| Col19 | 27 | 0.06  | 1.06 |
| Col19 | 28 | -0.07 | 1.06 |
| Col19 | 29 | -0.07 | 1.06 |
| Col19 | 30 | 0.08  | 1.06 |
| Col19 | 31 | 0.08  | 1.06 |
| Col19 | 32 | 0.08  | 1.06 |
| Col19 | 33 | 0.08  | 1.06 |
| Col19 | 34 | 0.08  | 1.06 |
| Col19 | 35 | 0.08  | 1.06 |
| Col19 | 36 | 0.00  | 1.06 |
| Col19 | 37 | 0.00  | 1.06 |
| Col19 | 38 | 0.00  | 1.06 |
| Col19 | 39 | 0.00  | 1.06 |
| Col19 | 40 | 0.00  | 1.06 |
| Col19 | 41 | 0.00  | 1.06 |
| Col19 | 42 | 0.00  | 1.06 |
| Col19 | 43 | 0.00  | 1.06 |
| Col19 | 44 | 0.00  | 1.06 |
| Col19 | 45 | 0.00  | 1.06 |
| Col19 | 46 | 0.00  | 1.06 |
| Col19 | 47 | 0.03  | 1.06 |
| Col19 | 48 | 0.03  | 1.06 |
| Col19 | 49 | 0.00  | 1.06 |
| Col19 | 50 | 0.00  | 1.06 |
| Col19 | 51 | 0.06  | 1.06 |
| Col19 | 52 | 0.00  | 1.06 |

RAFTER DEFLECTIONS:

| Id    | Load Id | Deflection (in)<br>Calc | Limit |
|-------|---------|-------------------------|-------|
| ----- | -----   | -----                   | ----- |

|      |    |      |      |
|------|----|------|------|
| Raf1 | 1  | 0.00 | 0.93 |
| Raf1 | 2  | 0.00 | 0.93 |
| Raf1 | 3  | 0.00 | 0.93 |
| Raf1 | 4  | 0.00 | 0.93 |
| Raf1 | 5  | 0.00 | 0.93 |
| Raf1 | 6  | 0.00 | 0.93 |
| Raf1 | 7  | 0.00 | 0.93 |
| Raf1 | 8  | 0.00 | 0.93 |
| Raf1 | 9  | 0.00 | 0.93 |
| Raf1 | 10 | 0.00 | 0.93 |
| Raf1 | 11 | 0.00 | 0.93 |
| Raf1 | 12 | 0.00 | 0.93 |
| Raf1 | 13 | 0.00 | 0.93 |
| Raf1 | 14 | 0.00 | 0.93 |
| Raf1 | 15 | 0.00 | 0.93 |
| Raf1 | 16 | 0.00 | 0.93 |
| Raf1 | 17 | 0.00 | 0.93 |
| Raf1 | 18 | 0.00 | 0.93 |
| Raf1 | 19 | 0.00 | 0.93 |
| Raf1 | 20 | 0.00 | 0.93 |
| Raf1 | 21 | 0.00 | 0.93 |
| Raf1 | 22 | 0.00 | 0.93 |
| Raf1 | 23 | 0.00 | 0.93 |
| Raf1 | 24 | 0.00 | 0.93 |
| Raf1 | 25 | 0.00 | 0.93 |
| Raf1 | 26 | 0.00 | 0.93 |
| Raf1 | 27 | 0.00 | 0.93 |
| Raf1 | 28 | 0.00 | 0.93 |
| Raf1 | 29 | 0.00 | 0.93 |
| Raf1 | 30 | 0.00 | 0.93 |
| Raf1 | 31 | 0.00 | 0.93 |
| Raf1 | 32 | 0.00 | 0.93 |
| Raf1 | 33 | 0.00 | 0.93 |
| Raf1 | 34 | 0.00 | 0.93 |
| Raf1 | 35 | 0.00 | 0.93 |
| Raf1 | 36 | 0.00 | 0.93 |
| Raf1 | 37 | 0.00 | 0.93 |
| Raf1 | 38 | 0.00 | 0.93 |
| Raf1 | 39 | 0.00 | 0.93 |
| Raf1 | 40 | 0.00 | 0.93 |
| Raf1 | 41 | 0.00 | 0.93 |
| Raf1 | 42 | 0.00 | 0.93 |
| Raf1 | 43 | 0.00 | 0.93 |
| Raf1 | 44 | 0.00 | 0.93 |
| Raf1 | 45 | 0.00 | 0.93 |
| Raf1 | 46 | 0.00 | 0.93 |
| Raf1 | 47 | 0.00 | 0.93 |
| Raf1 | 48 | 0.00 | 0.93 |
| Raf1 | 49 | 0.00 | 0.93 |
| Raf1 | 50 | 0.00 | 0.93 |
| Raf1 | 51 | 0.00 | 0.93 |
| Raf1 | 52 | 0.00 | 0.93 |
| Raf2 | 1  | 0.00 | 1.87 |
| Raf2 | 2  | 0.00 | 1.87 |
| Raf2 | 3  | 0.00 | 1.87 |
| Raf2 | 4  | 0.00 | 1.87 |
| Raf2 | 5  | 0.00 | 1.87 |
| Raf2 | 6  | 0.00 | 1.87 |
| Raf2 | 7  | 0.00 | 1.87 |
| Raf2 | 8  | 0.00 | 1.87 |
| Raf2 | 9  | 0.00 | 1.87 |
| Raf2 | 10 | 0.00 | 1.87 |
| Raf2 | 11 | 0.00 | 1.87 |
| Raf2 | 12 | 0.00 | 1.87 |
| Raf2 | 13 | 0.00 | 1.87 |

|      |    |      |      |
|------|----|------|------|
| Raf2 | 14 | 0.00 | 1.87 |
| Raf2 | 15 | 0.00 | 1.87 |
| Raf2 | 16 | 0.00 | 1.87 |
| Raf2 | 17 | 0.00 | 1.87 |
| Raf2 | 18 | 0.00 | 1.87 |
| Raf2 | 19 | 0.00 | 1.87 |
| Raf2 | 20 | 0.00 | 1.87 |
| Raf2 | 21 | 0.00 | 1.87 |
| Raf2 | 22 | 0.00 | 1.87 |
| Raf2 | 23 | 0.00 | 1.87 |
| Raf2 | 24 | 0.00 | 1.87 |
| Raf2 | 25 | 0.00 | 1.87 |
| Raf2 | 26 | 0.00 | 1.87 |
| Raf2 | 27 | 0.00 | 1.87 |
| Raf2 | 28 | 0.00 | 1.87 |
| Raf2 | 29 | 0.00 | 1.87 |
| Raf2 | 30 | 0.00 | 1.87 |
| Raf2 | 31 | 0.00 | 1.87 |
| Raf2 | 32 | 0.00 | 1.87 |
| Raf2 | 33 | 0.00 | 1.87 |
| Raf2 | 34 | 0.00 | 1.87 |
| Raf2 | 35 | 0.00 | 1.87 |
| Raf2 | 36 | 0.00 | 1.87 |
| Raf2 | 37 | 0.00 | 1.87 |
| Raf2 | 38 | 0.00 | 1.87 |
| Raf2 | 39 | 0.00 | 1.87 |
| Raf2 | 40 | 0.00 | 1.87 |
| Raf2 | 41 | 0.00 | 1.87 |
| Raf2 | 42 | 0.00 | 1.87 |
| Raf2 | 43 | 0.00 | 1.87 |
| Raf2 | 44 | 0.00 | 1.87 |
| Raf2 | 45 | 0.00 | 1.87 |
| Raf2 | 46 | 0.00 | 1.87 |
| Raf2 | 47 | 0.00 | 1.87 |
| Raf2 | 48 | 0.00 | 1.87 |
| Raf2 | 49 | 0.00 | 1.87 |
| Raf2 | 50 | 0.00 | 1.87 |
| Raf2 | 51 | 0.00 | 1.87 |
| Raf2 | 52 | 0.00 | 1.87 |
| Raf3 | 1  | 0.00 | 0.93 |
| Raf3 | 2  | 0.00 | 0.93 |
| Raf3 | 3  | 0.00 | 0.93 |
| Raf3 | 4  | 0.00 | 0.93 |
| Raf3 | 5  | 0.00 | 0.93 |
| Raf3 | 6  | 0.00 | 0.93 |
| Raf3 | 7  | 0.00 | 0.93 |
| Raf3 | 8  | 0.00 | 0.93 |
| Raf3 | 9  | 0.00 | 0.93 |
| Raf3 | 10 | 0.00 | 0.93 |
| Raf3 | 11 | 0.00 | 0.93 |
| Raf3 | 12 | 0.00 | 0.93 |
| Raf3 | 13 | 0.00 | 0.93 |
| Raf3 | 14 | 0.00 | 0.93 |
| Raf3 | 15 | 0.00 | 0.93 |
| Raf3 | 16 | 0.00 | 0.93 |
| Raf3 | 17 | 0.00 | 0.93 |
| Raf3 | 18 | 0.00 | 0.93 |
| Raf3 | 19 | 0.00 | 0.93 |
| Raf3 | 20 | 0.00 | 0.93 |
| Raf3 | 21 | 0.00 | 0.93 |
| Raf3 | 22 | 0.00 | 0.93 |
| Raf3 | 23 | 0.00 | 0.93 |
| Raf3 | 24 | 0.00 | 0.93 |
| Raf3 | 25 | 0.00 | 0.93 |
| Raf3 | 26 | 0.00 | 0.93 |



|      |    |      |      |
|------|----|------|------|
| Raf3 | 27 | 0.00 | 0.93 |
| Raf3 | 28 | 0.00 | 0.93 |
| Raf3 | 29 | 0.00 | 0.93 |
| Raf3 | 30 | 0.00 | 0.93 |
| Raf3 | 31 | 0.00 | 0.93 |
| Raf3 | 32 | 0.00 | 0.93 |
| Raf3 | 33 | 0.00 | 0.93 |
| Raf3 | 34 | 0.00 | 0.93 |
| Raf3 | 35 | 0.00 | 0.93 |
| Raf3 | 36 | 0.00 | 0.93 |
| Raf3 | 37 | 0.00 | 0.93 |
| Raf3 | 38 | 0.00 | 0.93 |
| Raf3 | 39 | 0.00 | 0.93 |
| Raf3 | 40 | 0.00 | 0.93 |
| Raf3 | 41 | 0.00 | 0.93 |
| Raf3 | 42 | 0.00 | 0.93 |
| Raf3 | 43 | 0.00 | 0.93 |
| Raf3 | 44 | 0.00 | 0.93 |
| Raf3 | 45 | 0.00 | 0.93 |
| Raf3 | 46 | 0.00 | 0.93 |
| Raf3 | 47 | 0.00 | 0.93 |
| Raf3 | 48 | 0.00 | 0.93 |
| Raf3 | 49 | 0.00 | 0.93 |
| Raf3 | 50 | 0.00 | 0.93 |
| Raf3 | 51 | 0.00 | 0.93 |
| Raf3 | 52 | 0.00 | 0.93 |

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id    | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|-------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|       |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col15 | 15.9          | 4.0            | 4.0   | 82           | 64    | 0.00                             | 0.00 |
| Col16 | 0.1           | 4.0            | 4.0   | 1            | 64    | 0.00                             | 0.00 |
| Col17 | 0.1           | 4.0            | 4.0   | 1            | 64    | 0.00                             | 0.00 |
| Col18 | 0.1           | 4.0            | 4.0   | 1            | 64    | 0.00                             | 0.00 |
| Col19 | 15.9          | 4.0            | 4.0   | 82           | 64    | 0.00                             | 0.00 |

GIRT LAYOUT:

| Bay Id | Girt Id | Locate | Part   | Design Length | Available Reduction Factor |      |
|--------|---------|--------|--------|---------------|----------------------------|------|
|        |         |        |        |               | Out                        | In   |
| 3      | 1       | 4.000  | 6X2C16 | 7.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 7.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 7.333         | 0.00                       | 0.70 |

GIRT ACTIONS:

| Bay Id | Girt Id | Load | -Shear(k )- |       | Moment(f-k ) |       | Max UC | Deflect(in) |       |
|--------|---------|------|-------------|-------|--------------|-------|--------|-------------|-------|
|        |         |      | Calc        | Limit | Calc         | Limit |        | Calc        | Limit |
| 3      | 1       | WP   | -0.15       | 3.32  | -0.27        | 2.65  | 0.10   | -0.01       | 0.98  |
|        |         | WS   | 0.16        | 3.32  | 0.30         | 2.15  | 0.14   | 0.02        | 0.98  |
|        | 3       | WP   | -0.15       | 3.32  | -0.27        | 2.65  | 0.10   | -0.01       | 0.98  |
|        |         | WS   | 0.16        | 3.32  | 0.29         | 2.15  | 0.14   | 0.02        | 0.98  |

WP - Wind\_Pressure

WS - Wind\_Suction

## JAMB/HEADER LAYOUT:

| Bay<br>Id | Id     | Part    | Length | Weight |
|-----------|--------|---------|--------|--------|
| 1         | JambL  | PBMJ6   | 15.88  | 55.3   |
|           | JambR  | PBMJ6   | 15.88  | 55.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 2         | JambL  | PBMJ6   | 15.88  | 55.3   |
|           | JambR  | PBMJ6   | 15.88  | 55.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 3         | JambL  | PBMJ6   | 15.88  | 55.3   |
|           | JambR  | PBMJ6   | 15.88  | 55.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 4         | JambL  | PBMJ6   | 15.88  | 55.3   |
|           | JambR  | PBMJ6   | 15.88  | 55.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |

## STRENGTH/DEFLECTION:

| Bay<br>Id | Id     | Load | -Shear(k )- |       | Moment(f-k ) |       | Max<br>UC | Deflect(in) |       |
|-----------|--------|------|-------------|-------|--------------|-------|-----------|-------------|-------|
|           |        |      | Calc        | Limit | Calc         | Limit |           | Calc        | Limit |
| 1         | JambL  | WP   | -0.52       | 5.26  | -2.06        | 3.90  | 0.53      | -0.27       | 2.12  |
|           |        | WS   | 0.61        | 5.26  | 2.42         | 3.90  | 0.62      | 0.32        | 2.12  |
|           | JambR  | WP   | -0.52       | 5.26  | -2.06        | 3.90  | 0.53      | -0.27       | 2.12  |
|           |        | WS   | 0.57        | 5.26  | 2.27         | 3.90  | 0.58      | 0.30        | 2.12  |
|           | Header | WP   | -0.06       | 3.86  | -0.17        | 0.98  | 0.17      | -0.02       | 1.60  |
|           |        | WS   | 0.06        | 3.86  | 0.19         | 1.93  | 0.10      | 0.02        | 1.60  |
| 2         | JambL  | WP   | -0.52       | 5.26  | -2.06        | 3.90  | 0.53      | -0.27       | 2.12  |
|           |        | WS   | 0.57        | 5.26  | 2.27         | 3.90  | 0.58      | 0.30        | 2.12  |
|           | JambR  | WP   | -0.52       | 5.26  | -2.06        | 3.90  | 0.53      | -0.27       | 2.12  |
|           |        | WS   | 0.57        | 5.26  | 2.27         | 3.90  | 0.58      | 0.30        | 2.12  |
|           | Header | WP   | -0.06       | 3.86  | -0.17        | 0.98  | 0.17      | -0.02       | 1.60  |
|           |        | WS   | 0.06        | 3.86  | 0.19         | 1.93  | 0.10      | 0.02        | 1.60  |
| 3         | JambL  | WP   | -0.80       | 5.26  | -3.18        | 3.90  | 0.81      | -0.42       | 2.12  |
|           |        | WS   | 0.88        | 5.26  | 3.50         | 3.90  | 0.90      | 0.46        | 2.12  |
|           | JambR  | WP   | -0.80       | 5.26  | -3.18        | 3.90  | 0.81      | -0.42       | 2.12  |
|           |        | WS   | 0.88        | 5.26  | 3.50         | 3.90  | 0.90      | 0.46        | 2.12  |
|           | Header | WP   | -0.06       | 3.86  | -0.17        | 0.98  | 0.17      | -0.02       | 1.60  |
|           |        | WS   | 0.06        | 3.86  | 0.19         | 1.93  | 0.10      | 0.02        | 1.60  |
| 4         | JambL  | WP   | -0.52       | 5.26  | -2.06        | 3.90  | 0.53      | -0.27       | 2.12  |
|           |        | WS   | 0.57        | 5.26  | 2.27         | 3.90  | 0.58      | 0.30        | 2.12  |
|           | JambR  | WP   | -0.52       | 5.26  | -2.06        | 3.90  | 0.53      | -0.27       | 2.12  |
|           |        | WS   | 0.61        | 5.26  | 2.42         | 3.90  | 0.62      | 0.32        | 2.12  |
|           | Header | WP   | -0.06       | 3.86  | -0.17        | 0.98  | 0.17      | -0.02       | 1.60  |
|           |        | WS   | 0.06        | 3.86  | 0.19         | 1.93  | 0.10      | 0.02        | 1.60  |

WP - Wind\_Pressure

WS - Wind\_Suction

## PANEL DATA:

| Bay | Part    | Type | Gage  | Yield |
|-----|---------|------|-------|-------|
| 3   | CUSPANL | CP   | 20.00 | 50.0  |

## MOMENTS &amp; DEFLECTION:

| Span<br>Id | Locate (ft) |       | Load | -----Moment (ft-lb/ft)----- |       |                 |       |             |       | Max<br>UC | Deflect (in) |       |
|------------|-------------|-------|------|-----------------------------|-------|-----------------|-------|-------------|-------|-----------|--------------|-------|
|            | Start       | End   |      | Start<br>Calc               | Limit | Midspan<br>Calc | Limit | End<br>Calc | Limit |           | Calc         | Limit |
| 1          | 0.00        | 4.00  | WP   | 0.0                         | 49.1  | -15.4           | 49.1  | 21.3        | 38.1  | 0.56      | -0.16        | 0.80  |
|            |             |       | WS   | 0.0                         | 38.1  | 20.6            | 38.1  | -28.4       | 49.1  | 0.58      | 0.21         | 0.80  |
| 2          | 4.00        | 8.00  | WP   | 21.3                        | 38.1  | -7.2            | 49.1  | 14.5        | 38.1  | 0.56      | -0.04        | 0.80  |
|            |             |       | WS   | -28.4                       | 49.1  | 9.5             | 38.1  | -19.3       | 49.1  | 0.58      | 0.06         | 0.80  |
| 3          | 8.00        | 12.00 | WP   | 14.5                        | 38.1  | -7.5            | 49.1  | 20.5        | 38.1  | 0.54      | -0.05        | 0.80  |
|            |             |       | WS   | -19.3                       | 49.1  | 10.0            | 38.1  | -27.3       | 49.1  | 0.56      | 0.07         | 0.80  |
| 4          | 12.00       | 15.88 | WP   | 20.5                        | 38.1  | -14.3           | 49.1  | 0.0         | 38.1  | 0.54      | -0.13        | 0.77  |
|            |             |       | WS   | -27.3                       | 49.1  | 19.0            | 38.1  | 0.0         | 38.1  | 0.56      | 0.18         | 0.77  |

WP - Wind\_Pressure  
WS - Wind\_Suction

## PANEL:

| Part    | Thick<br>(in) | Yield<br>(ksi ) | Tensile<br>Strength<br>(ksi ) |
|---------|---------------|-----------------|-------------------------------|
| CUSPANL | 0.038         | 50.00           | 65.00                         |

## GIRT SCREWS:

| Part | Dia<br>(in) | Washer<br>(in) | Limit<br>(k ) |
|------|-------------|----------------|---------------|
| #29  | 0.21        | 0.50           | 2.90          |

## PANEL ZONE LAYOUT:

| Zone<br>Id | Description | ---Wall (ft)--- |         | Bay<br>Id | --Girt (ft, ft, in)--<br>Locate Width Thick |      |       | Panel<br>Span<br>(ft) |
|------------|-------------|-----------------|---------|-----------|---|------|-------|-----------------------|
|            |             | Offset1         | Offset2 |           |   |      |       |                       |
| 1          | Interior    | 6.43            | 63.57   | 3         | 4.00  | 4.00 | 0.059 | 4.00                  |
| 2          | Lt Edge     | 0.00            | 6.43    | 1         | 4.00  | 4.00 | 0.000 | 4.00                  |
| 3          | Rt Edge     | 63.57           | 70.00   | 4         | 4.00  | 4.00 | 0.000 | 4.00                  |

## GIRT SCREW CHECK:

| Zone<br>Id | Screw<br>Space | Wind<br>Suction<br>(psf ) | Load<br>(k ) | -----Limit (k )-----<br>Girt Panel Screw |          |         | Max<br>UC |
|------------|----------------|---------------------------|--------------|--|----------|---------|-----------|
|            |                |                           |              | Pullout                                  | Pullover | Tension |           |
| 1          | 1.00           | 16.62                     | 0.07         | 0.22                                     | 0.61     | 0.77    | 0.30      |
| 2          | 1.00           | 16.62                     | 0.07         |  |          |         |           |
| 3          | 1.00           | 16.62                     | 0.07         |  |          |         |           |

## WALL LAYOUT:

| Wall Id | Orn | Load Width |
|---------|-----|------------|
| 3       | T   | 7.00       |

## MEMBER LAYOUT:

| Id     | Locate |        | ---Web(in)--- |       | -Flange(in)- |       | Length (ft) | Weight (lb) | ----Max_Load---- |      |         |
|--------|--------|--------|---------------|-------|--------------|-------|-------------|-------------|------------------|------|---------|
|        | (ft)   | Part   | Depth         | Thick | Width        | Thick |             |             | Id               | UC   | Report  |
| Col21  | 5.0    | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 16.1        | 35.3        | 10               | 0.75 | Deflect |
| Col22  | 10.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 16.3        | 35.8        | 10               | 0.74 | Deflect |
| Col23  | 15.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 16.5        | 36.2        | 10               | 0.77 | Deflect |
| Col24  | 20.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 16.8        | 36.7        | 10               | 0.79 | Deflect |
| Col25  | 25.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 17.0        | 37.1        | 10               | 0.82 | Deflect |
| Col26  | 30.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 17.2        | 37.6        | 10               | 0.86 | Deflect |
| Col27  | 35.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 17.3        | 37.9        | 1                | 0.10 | Mom+Axl |
| Col28  | 40.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 17.2        | 37.6        | 10               | 0.86 | Deflect |
| Col29  | 45.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 17.0        | 37.1        | 10               | 0.82 | Deflect |
| Col30  | 50.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 16.7        | 36.7        | 10               | 0.79 | Deflect |
| Col31  | 55.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 16.5        | 36.2        | 10               | 0.77 | Deflect |
| Col32  | 60.0   | 6X2C16 | 6.00          | 16ga  | 2.00         | 16ga  | 16.3        | 35.8        | 10               | 0.78 | Deflect |
| Total= |        |        |               |       |              |       |             | 440.0       |                  |      |         |

## DESIGN ACTIONS/STRENGTH:

| Id    | Load Id | -Axial(k )- |       | -Shear(k )- |       | Moment(f-k ) |       | -----Unity_Check----- |       |        |        |
|-------|---------|-------------|-------|-------------|-------|--------------|-------|-----------------------|-------|--------|--------|
|       |         | Calc        | Limit | Calc        | Limit | Calc         | Limit | Axial                 | Shear | Moment | Shear+ |
| Col21 | 1       | 0.83        | 7.66  | 0.00        | 3.32  | 0.00         | 2.65  | 0.11                  | 0.00  | 0.11   | 0.00   |
| Col21 | 2       | 0.13        | 7.66  | 0.00        | 3.32  | 0.00         | 2.65  | 0.02                  | 0.00  | 0.02   | 0.00   |
| Col21 | 3       | 0.60        | 7.66  | 0.00        | 3.32  | 0.00         | 2.65  | 0.08                  | 0.00  | 0.08   | 0.00   |
| Col21 | 4       | 0.60        | 7.66  | 0.00        | 3.32  | 0.00         | 2.65  | 0.08                  | 0.00  | 0.08   | 0.00   |
| Col21 | 5       | 0.66        | 7.66  | 0.00        | 3.32  | 0.00         | 2.65  | 0.09                  | 0.00  | 0.09   | 0.00   |
| Col21 | 6       | 0.48        | 7.66  | 0.00        | 3.32  | 0.00         | 2.65  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col21 | 7       | 0.48        | 7.66  | 0.00        | 3.32  | 0.00         | 2.65  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col21 | 8       | -0.35       | 21.18 | 0.41        | 3.32  | -1.64        | 2.65  | 0.02                  | 0.12  | 0.60   | 0.00   |
| Col21 | 9       | -0.15       | 21.18 | 0.41        | 3.32  | -1.64        | 2.65  | 0.01                  | 0.12  | 0.61   | 0.00   |
| Col21 | 10      | -0.35       | 21.18 | -0.47       | 3.32  | 1.90         | 2.65  | 0.02                  | 0.14  | 0.70   | 0.00   |
| Col21 | 11      | -0.15       | 21.18 | -0.47       | 3.32  | 1.90         | 2.65  | 0.01                  | 0.14  | 0.71   | 0.00   |
| Col21 | 12      | -0.35       | 21.18 | -0.47       | 3.32  | 1.90         | 2.65  | 0.02                  | 0.14  | 0.70   | 0.00   |
| Col21 | 13      | -0.15       | 21.18 | -0.47       | 3.32  | 1.90         | 2.65  | 0.01                  | 0.14  | 0.71   | 0.00   |
| Col21 | 14      | -0.20       | 21.18 | -0.47       | 3.32  | 1.90         | 2.65  | 0.01                  | 0.14  | 0.71   | 0.00   |
| Col21 | 15      | -0.01       | 21.18 | -0.47       | 3.32  | 1.90         | 2.65  | 0.00                  | 0.14  | 0.72   | 0.00   |
| Col21 | 16      | 0.42        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.05                  | 0.11  | 0.59   | 0.00   |
| Col21 | 17      | 0.57        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.07                  | 0.11  | 0.61   | 0.00   |
| Col21 | 18      | 0.31        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.04                  | 0.11  | 0.58   | 0.00   |
| Col21 | 19      | 0.46        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.06                  | 0.11  | 0.60   | 0.00   |
| Col21 | 20      | 0.25        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.03                  | 0.11  | 0.57   | 0.00   |
| Col21 | 21      | 0.39        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.05                  | 0.11  | 0.59   | 0.00   |
| Col21 | 22      | 0.14        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.02                  | 0.11  | 0.56   | 0.00   |
| Col21 | 23      | 0.28        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.04                  | 0.11  | 0.58   | 0.00   |
| Col21 | 24      | 0.25        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.03                  | 0.11  | 0.57   | 0.00   |
| Col21 | 25      | 0.39        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.05                  | 0.11  | 0.59   | 0.00   |
| Col21 | 26      | 0.14        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.02                  | 0.11  | 0.56   | 0.00   |
| Col21 | 27      | 0.28        | 7.66  | -0.35       | 3.32  | 1.43         | 2.65  | 0.04                  | 0.11  | 0.58   | 0.00   |
| Col21 | 28      | -0.37       | 21.18 | 0.41        | 3.32  | -1.64        | 2.65  | 0.02                  | 0.12  | 0.60   | 0.00   |
| Col21 | 29      | -0.18       | 21.18 | 0.41        | 3.32  | -1.64        | 2.65  | 0.01                  | 0.12  | 0.61   | 0.00   |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col121 | 30 | -0.37 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col121 | 31 | -0.18 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col121 | 32 | -0.37 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col121 | 33 | -0.18 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col121 | 34 | -0.23 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col121 | 35 | -0.03 | 21.18 | -0.47 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col121 | 36 | 0.13  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col121 | 37 | 0.13  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col121 | 38 | 0.66  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col121 | 39 | 0.66  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col121 | 40 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col121 | 41 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col121 | 42 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col121 | 43 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col121 | 44 | 0.08  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col121 | 45 | 0.08  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col121 | 46 | 0.69  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col121 | 47 | 0.32  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.04 | 0.11 | 0.58 | 0.00 |
| Col121 | 48 | 0.46  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.06 | 0.11 | 0.60 | 0.00 |
| Col121 | 49 | 0.13  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col121 | 50 | 0.13  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col121 | 51 | 0.09  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col121 | 52 | 0.09  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col121 | 53 | 0.60  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col121 | 54 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col121 | 55 | 0.49  | 7.66  | -0.35 | 3.32 | 1.43  | 2.65 | 0.06 | 0.11 | 0.60 | 0.00 |
| Col121 | 56 | 0.49  | 7.66  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col122 | 1  | 0.83  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col122 | 2  | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 3  | 0.60  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col122 | 4  | 0.60  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col122 | 5  | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col122 | 6  | 0.48  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col122 | 7  | 0.48  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col122 | 8  | -0.35 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.02 | 0.12 | 0.62 | 0.00 |
| Col122 | 9  | -0.15 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.01 | 0.12 | 0.63 | 0.00 |
| Col122 | 10 | -0.35 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.02 | 0.14 | 0.68 | 0.00 |
| Col122 | 11 | -0.15 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col122 | 12 | -0.35 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.02 | 0.14 | 0.68 | 0.00 |
| Col122 | 13 | -0.15 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col122 | 14 | -0.20 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col122 | 15 | -0.01 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.00 | 0.14 | 0.70 | 0.00 |
| Col122 | 16 | 0.42  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.06 | 0.10 | 0.58 | 0.00 |
| Col122 | 17 | 0.57  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.08 | 0.10 | 0.60 | 0.00 |
| Col122 | 18 | 0.31  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.57 | 0.00 |
| Col122 | 19 | 0.46  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.06 | 0.10 | 0.59 | 0.00 |
| Col122 | 20 | 0.25  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.03 | 0.10 | 0.56 | 0.00 |
| Col122 | 21 | 0.39  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.05 | 0.10 | 0.58 | 0.00 |
| Col122 | 22 | 0.14  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.02 | 0.10 | 0.54 | 0.00 |
| Col122 | 23 | 0.28  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.56 | 0.00 |
| Col122 | 24 | 0.25  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.03 | 0.10 | 0.56 | 0.00 |
| Col122 | 25 | 0.39  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.05 | 0.10 | 0.58 | 0.00 |
| Col122 | 26 | 0.14  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.02 | 0.10 | 0.54 | 0.00 |
| Col122 | 27 | 0.28  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.56 | 0.00 |
| Col122 | 28 | -0.37 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.02 | 0.12 | 0.62 | 0.00 |
| Col122 | 29 | -0.18 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.01 | 0.12 | 0.63 | 0.00 |
| Col122 | 30 | -0.37 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.02 | 0.14 | 0.68 | 0.00 |
| Col122 | 31 | -0.18 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col122 | 32 | -0.37 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.02 | 0.14 | 0.68 | 0.00 |
| Col122 | 33 | -0.18 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col122 | 34 | -0.23 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col122 | 35 | -0.03 | 21.18 | -0.45 | 3.32 | 1.85  | 2.65 | 0.00 | 0.14 | 0.70 | 0.00 |
| Col122 | 36 | 0.14  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 37 | 0.14  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 38 | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col122 | 39 | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col122 | 40 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 41 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 42 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 43 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 44 | 0.08  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col122 | 45 | 0.08  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col122 | 46 | 0.69  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col122 | 47 | 0.32  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.57 | 0.00 |
| Col122 | 48 | 0.46  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.06 | 0.10 | 0.59 | 0.00 |
| Col122 | 49 | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 50 | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 51 | 0.09  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col122 | 52 | 0.09  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col122 | 53 | 0.60  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col122 | 54 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 55 | 0.49  | 7.45  | -0.34 | 3.32 | 1.39  | 2.65 | 0.07 | 0.10 | 0.59 | 0.00 |
| Col122 | 56 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col123 | 1  | 0.83  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col123 | 2  | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 3  | 0.60  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col123 | 4  | 0.60  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col123 | 5  | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col123 | 6  | 0.48  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col123 | 7  | 0.48  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col123 | 8  | -0.34 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.02 | 0.13 | 0.64 | 0.00 |
| Col123 | 9  | -0.15 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col123 | 10 | -0.34 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col123 | 11 | -0.15 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col123 | 12 | -0.34 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col123 | 13 | -0.15 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col123 | 14 | -0.20 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col123 | 15 | -0.01 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col123 | 16 | 0.42  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col123 | 17 | 0.57  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.08 | 0.10 | 0.62 | 0.00 |
| Col123 | 18 | 0.31  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col123 | 19 | 0.46  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col123 | 20 | 0.25  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.03 | 0.10 | 0.57 | 0.00 |
| Col123 | 21 | 0.39  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.05 | 0.10 | 0.59 | 0.00 |
| Col123 | 22 | 0.14  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.02 | 0.10 | 0.56 | 0.00 |
| Col123 | 23 | 0.28  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col123 | 24 | 0.25  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.03 | 0.10 | 0.57 | 0.00 |
| Col123 | 25 | 0.39  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.05 | 0.10 | 0.59 | 0.00 |
| Col123 | 26 | 0.14  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.02 | 0.10 | 0.56 | 0.00 |
| Col123 | 27 | 0.28  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col123 | 28 | -0.37 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.02 | 0.13 | 0.63 | 0.00 |
| Col123 | 29 | -0.18 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col123 | 30 | -0.37 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col123 | 31 | -0.18 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col123 | 32 | -0.37 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col123 | 33 | -0.18 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col123 | 34 | -0.23 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col123 | 35 | -0.03 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col123 | 36 | 0.14  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 37 | 0.14  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 38 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col123 | 39 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col123 | 40 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col123 | 41 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col123 | 42 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col123 | 43 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col123 | 44 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col123 | 45 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col123 | 46 | 0.69  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col123 | 47 | 0.32  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |



|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col123 | 48 | 0.46  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col123 | 49 | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 50 | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 51 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col123 | 52 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col123 | 53 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col123 | 54 | 0.53  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col123 | 55 | 0.53  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.07 | 0.10 | 0.61 | 0.00 |
| Col123 | 56 | 0.53  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col124 | 1  | 0.83  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col124 | 2  | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col124 | 3  | 0.60  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col124 | 4  | 0.60  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col124 | 5  | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col124 | 6  | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col124 | 7  | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col124 | 8  | -0.34 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col124 | 9  | -0.15 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col124 | 10 | -0.34 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col124 | 11 | -0.15 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col124 | 12 | -0.34 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col124 | 13 | -0.15 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col124 | 14 | -0.20 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col124 | 15 | -0.01 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.74 | 0.00 |
| Col124 | 16 | 0.42  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col124 | 17 | 0.57  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.08 | 0.11 | 0.63 | 0.00 |
| Col124 | 18 | 0.31  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col124 | 19 | 0.46  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col124 | 20 | 0.25  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col124 | 21 | 0.39  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col124 | 22 | 0.14  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col124 | 23 | 0.29  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col124 | 24 | 0.25  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col124 | 25 | 0.39  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col124 | 26 | 0.14  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col124 | 27 | 0.29  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col124 | 28 | -0.37 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col124 | 29 | -0.18 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col124 | 30 | -0.37 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col124 | 31 | -0.18 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col124 | 32 | -0.37 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col124 | 33 | -0.18 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col124 | 34 | -0.23 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.72 | 0.00 |
| Col124 | 35 | -0.03 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.73 | 0.00 |
| Col124 | 36 | 0.14  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col124 | 37 | 0.14  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col124 | 38 | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col124 | 39 | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col124 | 40 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col124 | 41 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col124 | 42 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col124 | 43 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col124 | 44 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col124 | 45 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col124 | 46 | 0.69  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col124 | 47 | 0.32  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.05 | 0.11 | 0.60 | 0.00 |
| Col124 | 48 | 0.46  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col124 | 49 | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col124 | 50 | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col124 | 51 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col124 | 52 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col124 | 53 | 0.77  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col124 | 54 | 0.61  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col124 | 55 | 0.61  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.09 | 0.11 | 0.64 | 0.00 |
| Col124 | 56 | 0.62  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col25 | 1  | 0.83  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col25 | 2  | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 3  | 0.60  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col25 | 4  | 0.60  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col25 | 5  | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col25 | 6  | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col25 | 7  | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col25 | 8  | -0.34 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.02 | 0.13 | 0.67 | 0.00 |
| Col25 | 9  | -0.15 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.01 | 0.13 | 0.68 | 0.00 |
| Col25 | 10 | -0.34 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col25 | 11 | -0.15 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col25 | 12 | -0.34 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col25 | 13 | -0.15 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col25 | 14 | -0.20 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.74 | 0.00 |
| Col25 | 15 | 0.00  | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.00 | 0.14 | 0.75 | 0.00 |
| Col25 | 16 | 0.42  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.63 | 0.00 |
| Col25 | 17 | 0.57  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.08 | 0.11 | 0.65 | 0.00 |
| Col25 | 18 | 0.31  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col25 | 19 | 0.46  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.07 | 0.11 | 0.63 | 0.00 |
| Col25 | 20 | 0.25  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col25 | 21 | 0.39  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col25 | 22 | 0.14  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.02 | 0.11 | 0.59 | 0.00 |
| Col25 | 23 | 0.29  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.61 | 0.00 |
| Col25 | 24 | 0.25  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col25 | 25 | 0.39  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col25 | 26 | 0.14  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.02 | 0.11 | 0.59 | 0.00 |
| Col25 | 27 | 0.29  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.61 | 0.00 |
| Col25 | 28 | -0.37 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.02 | 0.13 | 0.67 | 0.00 |
| Col25 | 29 | -0.18 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.01 | 0.13 | 0.68 | 0.00 |
| Col25 | 30 | -0.37 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col25 | 31 | -0.18 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col25 | 32 | -0.37 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col25 | 33 | -0.18 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col25 | 34 | -0.23 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.74 | 0.00 |
| Col25 | 35 | -0.03 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.00 | 0.14 | 0.75 | 0.00 |
| Col25 | 36 | 0.14  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 37 | 0.14  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 38 | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col25 | 39 | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col25 | 40 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col25 | 41 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col25 | 42 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col25 | 43 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col25 | 44 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col25 | 45 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col25 | 46 | 0.69  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col25 | 47 | 0.32  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col25 | 48 | 0.46  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.07 | 0.11 | 0.63 | 0.00 |
| Col25 | 49 | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 50 | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 51 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col25 | 52 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col25 | 53 | 0.78  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col25 | 54 | 0.62  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col25 | 55 | 0.62  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.09 | 0.11 | 0.66 | 0.00 |
| Col25 | 56 | 0.62  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col26 | 1  | 0.83  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col26 | 2  | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 3  | 0.60  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col26 | 4  | 0.60  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col26 | 5  | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col26 | 6  | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col26 | 7  | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col26 | 8  | -0.34 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.02 | 0.13 | 0.69 | 0.00 |
| Col26 | 9  | -0.15 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.01 | 0.13 | 0.69 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col26 | 10 | -0.34 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.76 | 0.00 |
| Col26 | 11 | -0.15 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.77 | 0.00 |
| Col26 | 12 | -0.34 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.76 | 0.00 |
| Col26 | 13 | -0.15 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.77 | 0.00 |
| Col26 | 14 | -0.20 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col26 | 15 | 0.00  | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.00 | 0.14 | 0.77 | 0.00 |
| Col26 | 16 | 0.42  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col26 | 17 | 0.57  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.09 | 0.11 | 0.67 | 0.00 |
| Col26 | 18 | 0.31  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.05 | 0.11 | 0.63 | 0.00 |
| Col26 | 19 | 0.46  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.07 | 0.11 | 0.65 | 0.00 |
| Col26 | 20 | 0.25  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col26 | 21 | 0.40  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col26 | 22 | 0.14  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.02 | 0.11 | 0.60 | 0.00 |
| Col26 | 23 | 0.29  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col26 | 24 | 0.25  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col26 | 25 | 0.40  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col26 | 26 | 0.14  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.02 | 0.11 | 0.60 | 0.00 |
| Col26 | 27 | 0.29  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col26 | 28 | -0.37 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.02 | 0.13 | 0.68 | 0.00 |
| Col26 | 29 | -0.18 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.01 | 0.13 | 0.69 | 0.00 |
| Col26 | 30 | -0.37 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.75 | 0.00 |
| Col26 | 31 | -0.18 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col26 | 32 | -0.37 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.75 | 0.00 |
| Col26 | 33 | -0.18 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col26 | 34 | -0.23 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col26 | 35 | -0.03 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.00 | 0.14 | 0.77 | 0.00 |
| Col26 | 36 | 0.14  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 37 | 0.14  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 38 | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col26 | 39 | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col26 | 40 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col26 | 41 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col26 | 42 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col26 | 43 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col26 | 44 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col26 | 45 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col26 | 46 | 0.69  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col26 | 47 | 0.32  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.05 | 0.11 | 0.63 | 0.00 |
| Col26 | 48 | 0.46  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.07 | 0.11 | 0.65 | 0.00 |
| Col26 | 49 | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 50 | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 51 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col26 | 52 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col26 | 53 | 0.78  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col26 | 54 | 0.62  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col26 | 55 | 0.62  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.09 | 0.11 | 0.67 | 0.00 |
| Col26 | 56 | 0.62  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col27 | 1  | 0.83  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col27 | 2  | 0.13  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col27 | 3  | 0.60  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col27 | 4  | 0.60  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col27 | 5  | 0.66  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col27 | 6  | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col27 | 7  | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col27 | 8  | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 9  | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 10 | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 11 | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 12 | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 13 | -0.24 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 14 | -0.10 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col27 | 15 | -0.10 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col27 | 16 | 0.50  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col27 | 17 | 0.50  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col27 | 18 | 0.39  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col27 | 19 | 0.39  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col27 | 20 | 0.32  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col27 | 21 | 0.32  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col27 | 22 | 0.22  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col27 | 23 | 0.22  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col27 | 24 | 0.32  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col27 | 25 | 0.32  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col27 | 26 | 0.22  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col27 | 27 | 0.22  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col27 | 28 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 29 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 30 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 31 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 32 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 33 | -0.27 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 34 | -0.13 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 35 | -0.13 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 36 | 0.14  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col27 | 37 | 0.14  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col27 | 38 | 0.66  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col27 | 39 | 0.66  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col27 | 40 | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col27 | 41 | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col27 | 42 | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col27 | 43 | 0.49  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col27 | 44 | 0.09  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 45 | 0.09  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 46 | 0.68  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col27 | 47 | 0.38  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col27 | 48 | 0.38  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col27 | 49 | 0.13  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col27 | 50 | 0.13  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col27 | 51 | 0.09  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 52 | 0.09  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col27 | 53 | 0.77  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col27 | 54 | 0.61  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col27 | 55 | 0.61  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col27 | 56 | 0.61  | 8.50  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col28 | 1  | 0.83  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col28 | 2  | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col28 | 3  | 0.60  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col28 | 4  | 0.60  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col28 | 5  | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col28 | 6  | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col28 | 7  | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col28 | 8  | -0.15 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.01 | 0.13 | 0.69 | 0.00 |
| Col28 | 9  | -0.34 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.02 | 0.13 | 0.69 | 0.00 |
| Col28 | 10 | -0.15 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.77 | 0.00 |
| Col28 | 11 | -0.34 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.76 | 0.00 |
| Col28 | 12 | -0.15 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.77 | 0.00 |
| Col28 | 13 | -0.34 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.76 | 0.00 |
| Col28 | 14 | 0.00  | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.00 | 0.14 | 0.77 | 0.00 |
| Col28 | 15 | -0.20 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col28 | 16 | 0.57  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.09 | 0.11 | 0.67 | 0.00 |
| Col28 | 17 | 0.42  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col28 | 18 | 0.46  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.07 | 0.11 | 0.65 | 0.00 |
| Col28 | 19 | 0.31  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.05 | 0.11 | 0.63 | 0.00 |
| Col28 | 20 | 0.40  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col28 | 21 | 0.25  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col28 | 22 | 0.29  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col28 | 23 | 0.14  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.02 | 0.11 | 0.60 | 0.00 |
| Col28 | 24 | 0.40  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.06 | 0.11 | 0.64 | 0.00 |
| Col28 | 25 | 0.25  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col28 | 26 | 0.29  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.04 | 0.11 | 0.62 | 0.00 |
| Col28 | 27 | 0.14  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.02 | 0.11 | 0.60 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col28 | 28 | -0.18 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.01 | 0.13 | 0.69 | 0.00 |
| Col28 | 29 | -0.37 | 21.18 | 0.43  | 3.32 | -1.86 | 2.65 | 0.02 | 0.13 | 0.68 | 0.00 |
| Col28 | 30 | -0.18 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col28 | 31 | -0.37 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.75 | 0.00 |
| Col28 | 32 | -0.18 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col28 | 33 | -0.37 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.02 | 0.14 | 0.75 | 0.00 |
| Col28 | 34 | -0.03 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.00 | 0.14 | 0.77 | 0.00 |
| Col28 | 35 | -0.23 | 21.18 | -0.48 | 3.32 | 2.04  | 2.65 | 0.01 | 0.14 | 0.76 | 0.00 |
| Col28 | 36 | 0.14  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col28 | 37 | 0.14  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col28 | 38 | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col28 | 39 | 0.66  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col28 | 40 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col28 | 41 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col28 | 42 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col28 | 43 | 0.49  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col28 | 44 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 45 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 46 | 0.69  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col28 | 47 | 0.46  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.07 | 0.11 | 0.65 | 0.00 |
| Col28 | 48 | 0.32  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.05 | 0.11 | 0.63 | 0.00 |
| Col28 | 49 | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col28 | 50 | 0.13  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col28 | 51 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 52 | 0.09  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 53 | 0.79  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col28 | 54 | 0.63  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col28 | 55 | 0.63  | 6.57  | -0.36 | 3.32 | 1.53  | 2.65 | 0.10 | 0.11 | 0.68 | 0.00 |
| Col28 | 56 | 0.63  | 6.57  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col29 | 1  | 0.83  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col29 | 2  | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col29 | 3  | 0.60  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col29 | 4  | 0.60  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col29 | 5  | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col29 | 6  | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col29 | 7  | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col29 | 8  | -0.15 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.01 | 0.13 | 0.68 | 0.00 |
| Col29 | 9  | -0.34 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.02 | 0.13 | 0.67 | 0.00 |
| Col29 | 10 | -0.15 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col29 | 11 | -0.34 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col29 | 12 | -0.15 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col29 | 13 | -0.34 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col29 | 14 | 0.00  | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.00 | 0.14 | 0.75 | 0.00 |
| Col29 | 15 | -0.20 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.74 | 0.00 |
| Col29 | 16 | 0.57  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.08 | 0.11 | 0.65 | 0.00 |
| Col29 | 17 | 0.42  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.63 | 0.00 |
| Col29 | 18 | 0.46  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.07 | 0.11 | 0.63 | 0.00 |
| Col29 | 19 | 0.31  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col29 | 20 | 0.39  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col29 | 21 | 0.25  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col29 | 22 | 0.29  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.61 | 0.00 |
| Col29 | 23 | 0.14  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.02 | 0.11 | 0.59 | 0.00 |
| Col29 | 24 | 0.39  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col29 | 25 | 0.25  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col29 | 26 | 0.29  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.04 | 0.11 | 0.61 | 0.00 |
| Col29 | 27 | 0.14  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.02 | 0.11 | 0.59 | 0.00 |
| Col29 | 28 | -0.18 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.01 | 0.13 | 0.68 | 0.00 |
| Col29 | 29 | -0.37 | 21.18 | 0.43  | 3.32 | -1.81 | 2.65 | 0.02 | 0.13 | 0.67 | 0.00 |
| Col29 | 30 | -0.18 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col29 | 31 | -0.37 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col29 | 32 | -0.18 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.75 | 0.00 |
| Col29 | 33 | -0.37 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.02 | 0.14 | 0.74 | 0.00 |
| Col29 | 34 | -0.03 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.00 | 0.14 | 0.75 | 0.00 |
| Col29 | 35 | -0.23 | 21.18 | -0.47 | 3.32 | 2.00  | 2.65 | 0.01 | 0.14 | 0.74 | 0.00 |
| Col29 | 36 | 0.14  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col129 | 37 | 0.14  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col129 | 38 | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col129 | 39 | 0.66  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col129 | 40 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col129 | 41 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col129 | 42 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col129 | 43 | 0.49  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col129 | 44 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 45 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 46 | 0.69  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col129 | 47 | 0.46  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.07 | 0.11 | 0.63 | 0.00 |
| Col129 | 48 | 0.32  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col129 | 49 | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col129 | 50 | 0.13  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col129 | 51 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 52 | 0.09  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 53 | 0.79  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col129 | 54 | 0.63  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col129 | 55 | 0.63  | 6.79  | -0.35 | 3.32 | 1.50  | 2.65 | 0.09 | 0.11 | 0.66 | 0.00 |
| Col129 | 56 | 0.63  | 6.79  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col130 | 1  | 0.83  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col130 | 2  | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col130 | 3  | 0.60  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col130 | 4  | 0.60  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col130 | 5  | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col130 | 6  | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col130 | 7  | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col130 | 8  | -0.15 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col130 | 9  | -0.34 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col130 | 10 | -0.15 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col130 | 11 | -0.34 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col130 | 12 | -0.15 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col130 | 13 | -0.34 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col130 | 14 | -0.01 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.74 | 0.00 |
| Col130 | 15 | -0.20 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col130 | 16 | 0.57  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.08 | 0.11 | 0.63 | 0.00 |
| Col130 | 17 | 0.42  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col130 | 18 | 0.46  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col130 | 19 | 0.31  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col130 | 20 | 0.39  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col130 | 21 | 0.25  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col130 | 22 | 0.29  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col130 | 23 | 0.14  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col130 | 24 | 0.39  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col130 | 25 | 0.25  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col130 | 26 | 0.29  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col130 | 27 | 0.14  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col130 | 28 | -0.18 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col130 | 29 | -0.37 | 21.18 | 0.42  | 3.32 | -1.77 | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col130 | 30 | -0.18 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col130 | 31 | -0.37 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col130 | 32 | -0.18 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col130 | 33 | -0.37 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col130 | 34 | -0.03 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.73 | 0.00 |
| Col130 | 35 | -0.23 | 21.18 | -0.46 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.72 | 0.00 |
| Col130 | 36 | 0.14  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col130 | 37 | 0.14  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col130 | 38 | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col130 | 39 | 0.66  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col130 | 40 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col130 | 41 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col130 | 42 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col130 | 43 | 0.49  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col130 | 44 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col130 | 45 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col130 | 46 | 0.69  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col130 | 47 | 0.46  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col130 | 48 | 0.32  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.05 | 0.11 | 0.60 | 0.00 |
| Col130 | 49 | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col130 | 50 | 0.13  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col130 | 51 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col130 | 52 | 0.09  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col130 | 53 | 0.79  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col130 | 54 | 0.63  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col130 | 55 | 0.63  | 7.01  | -0.35 | 3.32 | 1.46  | 2.65 | 0.09 | 0.11 | 0.64 | 0.00 |
| Col130 | 56 | 0.63  | 7.01  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col131 | 1  | 0.83  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col131 | 2  | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col131 | 3  | 0.60  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col131 | 4  | 0.60  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col131 | 5  | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col131 | 6  | 0.48  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col131 | 7  | 0.48  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col131 | 8  | -0.15 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col131 | 9  | -0.34 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.02 | 0.13 | 0.64 | 0.00 |
| Col131 | 10 | -0.15 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col131 | 11 | -0.34 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col131 | 12 | -0.15 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col131 | 13 | -0.34 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col131 | 14 | -0.01 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col131 | 15 | -0.20 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col131 | 16 | 0.57  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.08 | 0.10 | 0.62 | 0.00 |
| Col131 | 17 | 0.42  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col131 | 18 | 0.46  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col131 | 19 | 0.31  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col131 | 20 | 0.39  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.05 | 0.10 | 0.59 | 0.00 |
| Col131 | 21 | 0.25  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.03 | 0.10 | 0.57 | 0.00 |
| Col131 | 22 | 0.28  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col131 | 23 | 0.14  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.02 | 0.10 | 0.56 | 0.00 |
| Col131 | 24 | 0.39  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.05 | 0.10 | 0.59 | 0.00 |
| Col131 | 25 | 0.25  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.03 | 0.10 | 0.57 | 0.00 |
| Col131 | 26 | 0.28  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col131 | 27 | 0.14  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.02 | 0.10 | 0.56 | 0.00 |
| Col131 | 28 | -0.18 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col131 | 29 | -0.37 | 21.18 | 0.42  | 3.32 | -1.72 | 2.65 | 0.02 | 0.13 | 0.63 | 0.00 |
| Col131 | 30 | -0.18 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col131 | 31 | -0.37 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col131 | 32 | -0.18 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col131 | 33 | -0.37 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.02 | 0.14 | 0.70 | 0.00 |
| Col131 | 34 | -0.03 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.00 | 0.14 | 0.72 | 0.00 |
| Col131 | 35 | -0.23 | 21.18 | -0.46 | 3.32 | 1.90  | 2.65 | 0.01 | 0.14 | 0.71 | 0.00 |
| Col131 | 36 | 0.14  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col131 | 37 | 0.14  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col131 | 38 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col131 | 39 | 0.66  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col131 | 40 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col131 | 41 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col131 | 42 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col131 | 43 | 0.49  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col131 | 44 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col131 | 45 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col131 | 46 | 0.69  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col131 | 47 | 0.46  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.06 | 0.10 | 0.60 | 0.00 |
| Col131 | 48 | 0.32  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.04 | 0.10 | 0.58 | 0.00 |
| Col131 | 49 | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col131 | 50 | 0.13  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col131 | 51 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col131 | 52 | 0.09  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col131 | 53 | 0.73  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col131 | 54 | 0.58  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col131 | 55 | 0.58  | 7.23  | -0.34 | 3.32 | 1.42  | 2.65 | 0.08 | 0.10 | 0.62 | 0.00 |
| Col131 | 56 | 0.58  | 7.23  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col132 | 1  | 0.83  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col132 | 2  | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col132 | 3  | 0.60  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col132 | 4  | 0.60  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col132 | 5  | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col132 | 6  | 0.48  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col132 | 7  | 0.48  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col132 | 8  | -0.15 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.01 | 0.12 | 0.63 | 0.00 |
| Col132 | 9  | -0.35 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.02 | 0.12 | 0.62 | 0.00 |
| Col132 | 10 | -0.15 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col132 | 11 | -0.35 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col132 | 12 | -0.15 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col132 | 13 | -0.35 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col132 | 14 | -0.01 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.74 | 0.00 |
| Col132 | 15 | -0.20 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col132 | 16 | 0.57  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.08 | 0.11 | 0.63 | 0.00 |
| Col132 | 17 | 0.42  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col132 | 18 | 0.46  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.61 | 0.00 |
| Col132 | 19 | 0.31  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col132 | 20 | 0.39  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col132 | 21 | 0.25  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.03 | 0.11 | 0.59 | 0.00 |
| Col132 | 22 | 0.28  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col132 | 23 | 0.14  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col132 | 24 | 0.39  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.05 | 0.11 | 0.61 | 0.00 |
| Col132 | 25 | 0.25  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.03 | 0.11 | 0.59 | 0.00 |
| Col132 | 26 | 0.28  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.59 | 0.00 |
| Col132 | 27 | 0.14  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.02 | 0.11 | 0.57 | 0.00 |
| Col132 | 28 | -0.18 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.01 | 0.12 | 0.63 | 0.00 |
| Col132 | 29 | -0.37 | 21.18 | 0.41  | 3.32 | -1.68 | 2.65 | 0.02 | 0.12 | 0.62 | 0.00 |
| Col132 | 30 | -0.18 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col132 | 31 | -0.37 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col132 | 32 | -0.18 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col132 | 33 | -0.37 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.02 | 0.14 | 0.72 | 0.00 |
| Col132 | 34 | -0.03 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.00 | 0.14 | 0.74 | 0.00 |
| Col132 | 35 | -0.23 | 21.18 | -0.48 | 3.32 | 1.95  | 2.65 | 0.01 | 0.14 | 0.73 | 0.00 |
| Col132 | 36 | 0.14  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col132 | 37 | 0.14  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col132 | 38 | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col132 | 39 | 0.66  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col132 | 40 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col132 | 41 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col132 | 42 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col132 | 43 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col132 | 44 | 0.08  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col132 | 45 | 0.08  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col132 | 46 | 0.69  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col132 | 47 | 0.46  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.06 | 0.11 | 0.62 | 0.00 |
| Col132 | 48 | 0.32  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.04 | 0.11 | 0.60 | 0.00 |
| Col132 | 49 | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col132 | 50 | 0.13  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col132 | 51 | 0.09  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col132 | 52 | 0.09  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col132 | 53 | 0.61  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col132 | 54 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col132 | 55 | 0.49  | 7.45  | -0.36 | 3.32 | 1.46  | 2.65 | 0.07 | 0.11 | 0.62 | 0.00 |
| Col132 | 56 | 0.49  | 7.45  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |

COLUMN REACTIONS:

| Id     | Load |           | In_Plane<br>Horz (k ) | Out_Plane<br>Horz (k ) |
|--------|------|-----------|-----------------------|------------------------|
|        | Id   | Vert (k ) |                       |                        |
| Col121 | 1    | 0.83      | 0.00                  | 0.00                   |



|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col21 | 2  | 0.13  | 0.00 | 0.00  |
| Col21 | 3  | 0.60  | 0.00 | 0.00  |
| Col21 | 4  | 0.60  | 0.00 | 0.00  |
| Col21 | 5  | 0.66  | 0.00 | 0.00  |
| Col21 | 6  | 0.48  | 0.00 | 0.00  |
| Col21 | 7  | 0.48  | 0.00 | 0.00  |
| Col21 | 8  | -0.35 | 0.00 | -0.41 |
| Col21 | 9  | -0.15 | 0.00 | -0.41 |
| Col21 | 10 | -0.35 | 0.00 | 0.47  |
| Col21 | 11 | -0.15 | 0.00 | 0.47  |
| Col21 | 12 | -0.35 | 0.00 | 0.47  |
| Col21 | 13 | -0.15 | 0.00 | 0.47  |
| Col21 | 14 | -0.20 | 0.00 | 0.47  |
| Col21 | 15 | -0.01 | 0.00 | 0.47  |
| Col21 | 16 | 0.42  | 0.00 | 0.35  |
| Col21 | 17 | 0.57  | 0.00 | 0.35  |
| Col21 | 18 | 0.31  | 0.00 | 0.35  |
| Col21 | 19 | 0.46  | 0.00 | 0.35  |
| Col21 | 20 | 0.25  | 0.00 | 0.35  |
| Col21 | 21 | 0.39  | 0.00 | 0.35  |
| Col21 | 22 | 0.14  | 0.00 | 0.35  |
| Col21 | 23 | 0.28  | 0.00 | 0.35  |
| Col21 | 24 | 0.25  | 0.00 | 0.35  |
| Col21 | 25 | 0.39  | 0.00 | 0.35  |
| Col21 | 26 | 0.14  | 0.00 | 0.35  |
| Col21 | 27 | 0.28  | 0.00 | 0.35  |
| Col21 | 28 | -0.37 | 0.00 | -0.41 |
| Col21 | 29 | -0.18 | 0.00 | -0.41 |
| Col21 | 30 | -0.37 | 0.00 | 0.47  |
| Col21 | 31 | -0.18 | 0.00 | 0.47  |
| Col21 | 32 | -0.37 | 0.00 | 0.47  |
| Col21 | 33 | -0.18 | 0.00 | 0.47  |
| Col21 | 34 | -0.23 | 0.00 | 0.47  |
| Col21 | 35 | -0.03 | 0.00 | 0.47  |
| Col21 | 36 | 0.13  | 0.00 | 0.00  |
| Col21 | 37 | 0.13  | 0.00 | 0.00  |
| Col21 | 38 | 0.66  | 0.00 | 0.00  |
| Col21 | 39 | 0.66  | 0.00 | 0.00  |
| Col21 | 40 | 0.49  | 0.00 | 0.00  |
| Col21 | 41 | 0.49  | 0.00 | 0.00  |
| Col21 | 42 | 0.49  | 0.00 | 0.00  |
| Col21 | 43 | 0.49  | 0.00 | 0.00  |
| Col21 | 44 | 0.08  | 0.00 | 0.00  |
| Col21 | 45 | 0.08  | 0.00 | 0.00  |
| Col21 | 46 | 0.69  | 0.00 | 0.00  |
| Col21 | 47 | 0.32  | 0.00 | 0.35  |
| Col21 | 48 | 0.46  | 0.00 | 0.35  |
| Col21 | 49 | 0.13  | 0.00 | 0.00  |
| Col21 | 50 | 0.13  | 0.00 | 0.00  |
| Col21 | 51 | 0.09  | 0.00 | 0.00  |
| Col21 | 52 | 0.09  | 0.00 | 0.00  |
| Col21 | 53 | 0.60  | 0.00 | 0.00  |
| Col21 | 54 | 0.49  | 0.00 | 0.00  |
| Col21 | 55 | 0.49  | 0.00 | 0.35  |
| Col21 | 56 | 0.49  | 0.00 | 0.00  |
| Col22 | 1  | 0.83  | 0.00 | 0.00  |
| Col22 | 2  | 0.13  | 0.00 | 0.00  |
| Col22 | 3  | 0.60  | 0.00 | 0.00  |
| Col22 | 4  | 0.60  | 0.00 | 0.00  |
| Col22 | 5  | 0.66  | 0.00 | 0.00  |
| Col22 | 6  | 0.48  | 0.00 | 0.00  |
| Col22 | 7  | 0.48  | 0.00 | 0.00  |
| Col22 | 8  | -0.35 | 0.00 | -0.41 |
| Col22 | 9  | -0.15 | 0.00 | -0.41 |
| Col22 | 10 | -0.35 | 0.00 | 0.45  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col122 | 11 | -0.15 | 0.00 | 0.45  |
| Col122 | 12 | -0.35 | 0.00 | 0.45  |
| Col122 | 13 | -0.15 | 0.00 | 0.45  |
| Col122 | 14 | -0.20 | 0.00 | 0.45  |
| Col122 | 15 | -0.01 | 0.00 | 0.45  |
| Col122 | 16 | 0.42  | 0.00 | 0.34  |
| Col122 | 17 | 0.57  | 0.00 | 0.34  |
| Col122 | 18 | 0.31  | 0.00 | 0.34  |
| Col122 | 19 | 0.46  | 0.00 | 0.34  |
| Col122 | 20 | 0.25  | 0.00 | 0.34  |
| Col122 | 21 | 0.39  | 0.00 | 0.34  |
| Col122 | 22 | 0.14  | 0.00 | 0.34  |
| Col122 | 23 | 0.28  | 0.00 | 0.34  |
| Col122 | 24 | 0.25  | 0.00 | 0.34  |
| Col122 | 25 | 0.39  | 0.00 | 0.34  |
| Col122 | 26 | 0.14  | 0.00 | 0.34  |
| Col122 | 27 | 0.28  | 0.00 | 0.34  |
| Col122 | 28 | -0.37 | 0.00 | -0.41 |
| Col122 | 29 | -0.18 | 0.00 | -0.41 |
| Col122 | 30 | -0.37 | 0.00 | 0.45  |
| Col122 | 31 | -0.18 | 0.00 | 0.45  |
| Col122 | 32 | -0.37 | 0.00 | 0.45  |
| Col122 | 33 | -0.18 | 0.00 | 0.45  |
| Col122 | 34 | -0.23 | 0.00 | 0.45  |
| Col122 | 35 | -0.03 | 0.00 | 0.45  |
| Col122 | 36 | 0.14  | 0.00 | 0.00  |
| Col122 | 37 | 0.14  | 0.00 | 0.00  |
| Col122 | 38 | 0.66  | 0.00 | 0.00  |
| Col122 | 39 | 0.66  | 0.00 | 0.00  |
| Col122 | 40 | 0.49  | 0.00 | 0.00  |
| Col122 | 41 | 0.49  | 0.00 | 0.00  |
| Col122 | 42 | 0.49  | 0.00 | 0.00  |
| Col122 | 43 | 0.49  | 0.00 | 0.00  |
| Col122 | 44 | 0.08  | 0.00 | 0.00  |
| Col122 | 45 | 0.08  | 0.00 | 0.00  |
| Col122 | 46 | 0.69  | 0.00 | 0.00  |
| Col122 | 47 | 0.32  | 0.00 | 0.34  |
| Col122 | 48 | 0.46  | 0.00 | 0.34  |
| Col122 | 49 | 0.13  | 0.00 | 0.00  |
| Col122 | 50 | 0.13  | 0.00 | 0.00  |
| Col122 | 51 | 0.09  | 0.00 | 0.00  |
| Col122 | 52 | 0.09  | 0.00 | 0.00  |
| Col122 | 53 | 0.60  | 0.00 | 0.00  |
| Col122 | 54 | 0.49  | 0.00 | 0.00  |
| Col122 | 55 | 0.49  | 0.00 | 0.34  |
| Col122 | 56 | 0.49  | 0.00 | 0.00  |
| Col123 | 1  | 0.83  | 0.00 | 0.00  |
| Col123 | 2  | 0.13  | 0.00 | 0.00  |
| Col123 | 3  | 0.60  | 0.00 | 0.00  |
| Col123 | 4  | 0.60  | 0.00 | 0.00  |
| Col123 | 5  | 0.66  | 0.00 | 0.00  |
| Col123 | 6  | 0.48  | 0.00 | 0.00  |
| Col123 | 7  | 0.48  | 0.00 | 0.00  |
| Col123 | 8  | -0.34 | 0.00 | -0.42 |
| Col123 | 9  | -0.15 | 0.00 | -0.42 |
| Col123 | 10 | -0.34 | 0.00 | 0.46  |
| Col123 | 11 | -0.15 | 0.00 | 0.46  |
| Col123 | 12 | -0.34 | 0.00 | 0.46  |
| Col123 | 13 | -0.15 | 0.00 | 0.46  |
| Col123 | 14 | -0.20 | 0.00 | 0.46  |
| Col123 | 15 | -0.01 | 0.00 | 0.46  |
| Col123 | 16 | 0.42  | 0.00 | 0.34  |
| Col123 | 17 | 0.57  | 0.00 | 0.34  |
| Col123 | 18 | 0.31  | 0.00 | 0.34  |
| Col123 | 19 | 0.46  | 0.00 | 0.34  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col23 | 20 | 0.25  | 0.00 | 0.34  |
| Col23 | 21 | 0.39  | 0.00 | 0.34  |
| Col23 | 22 | 0.14  | 0.00 | 0.34  |
| Col23 | 23 | 0.28  | 0.00 | 0.34  |
| Col23 | 24 | 0.25  | 0.00 | 0.34  |
| Col23 | 25 | 0.39  | 0.00 | 0.34  |
| Col23 | 26 | 0.14  | 0.00 | 0.34  |
| Col23 | 27 | 0.28  | 0.00 | 0.34  |
| Col23 | 28 | -0.37 | 0.00 | -0.42 |
| Col23 | 29 | -0.18 | 0.00 | -0.42 |
| Col23 | 30 | -0.37 | 0.00 | 0.46  |
| Col23 | 31 | -0.18 | 0.00 | 0.46  |
| Col23 | 32 | -0.37 | 0.00 | 0.46  |
| Col23 | 33 | -0.18 | 0.00 | 0.46  |
| Col23 | 34 | -0.23 | 0.00 | 0.46  |
| Col23 | 35 | -0.03 | 0.00 | 0.46  |
| Col23 | 36 | 0.14  | 0.00 | 0.00  |
| Col23 | 37 | 0.14  | 0.00 | 0.00  |
| Col23 | 38 | 0.66  | 0.00 | 0.00  |
| Col23 | 39 | 0.66  | 0.00 | 0.00  |
| Col23 | 40 | 0.49  | 0.00 | 0.00  |
| Col23 | 41 | 0.49  | 0.00 | 0.00  |
| Col23 | 42 | 0.49  | 0.00 | 0.00  |
| Col23 | 43 | 0.49  | 0.00 | 0.00  |
| Col23 | 44 | 0.09  | 0.00 | 0.00  |
| Col23 | 45 | 0.09  | 0.00 | 0.00  |
| Col23 | 46 | 0.69  | 0.00 | 0.00  |
| Col23 | 47 | 0.32  | 0.00 | 0.34  |
| Col23 | 48 | 0.46  | 0.00 | 0.34  |
| Col23 | 49 | 0.13  | 0.00 | 0.00  |
| Col23 | 50 | 0.13  | 0.00 | 0.00  |
| Col23 | 51 | 0.09  | 0.00 | 0.00  |
| Col23 | 52 | 0.09  | 0.00 | 0.00  |
| Col23 | 53 | 0.66  | 0.00 | 0.00  |
| Col23 | 54 | 0.53  | 0.00 | 0.00  |
| Col23 | 55 | 0.53  | 0.00 | 0.34  |
| Col23 | 56 | 0.53  | 0.00 | 0.00  |
| Col24 | 1  | 0.83  | 0.00 | 0.00  |
| Col24 | 2  | 0.13  | 0.00 | 0.00  |
| Col24 | 3  | 0.60  | 0.00 | 0.00  |
| Col24 | 4  | 0.60  | 0.00 | 0.00  |
| Col24 | 5  | 0.66  | 0.00 | 0.00  |
| Col24 | 6  | 0.49  | 0.00 | 0.00  |
| Col24 | 7  | 0.49  | 0.00 | 0.00  |
| Col24 | 8  | -0.34 | 0.00 | -0.42 |
| Col24 | 9  | -0.15 | 0.00 | -0.42 |
| Col24 | 10 | -0.34 | 0.00 | 0.46  |
| Col24 | 11 | -0.15 | 0.00 | 0.46  |
| Col24 | 12 | -0.34 | 0.00 | 0.46  |
| Col24 | 13 | -0.15 | 0.00 | 0.46  |
| Col24 | 14 | -0.20 | 0.00 | 0.46  |
| Col24 | 15 | -0.01 | 0.00 | 0.46  |
| Col24 | 16 | 0.42  | 0.00 | 0.35  |
| Col24 | 17 | 0.57  | 0.00 | 0.35  |
| Col24 | 18 | 0.31  | 0.00 | 0.35  |
| Col24 | 19 | 0.46  | 0.00 | 0.35  |
| Col24 | 20 | 0.25  | 0.00 | 0.35  |
| Col24 | 21 | 0.39  | 0.00 | 0.35  |
| Col24 | 22 | 0.14  | 0.00 | 0.35  |
| Col24 | 23 | 0.29  | 0.00 | 0.35  |
| Col24 | 24 | 0.25  | 0.00 | 0.35  |
| Col24 | 25 | 0.39  | 0.00 | 0.35  |
| Col24 | 26 | 0.14  | 0.00 | 0.35  |
| Col24 | 27 | 0.29  | 0.00 | 0.35  |
| Col24 | 28 | -0.37 | 0.00 | -0.42 |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col24 | 29 | -0.18 | 0.00 | -0.42 |
| Col24 | 30 | -0.37 | 0.00 | 0.46  |
| Col24 | 31 | -0.18 | 0.00 | 0.46  |
| Col24 | 32 | -0.37 | 0.00 | 0.46  |
| Col24 | 33 | -0.18 | 0.00 | 0.46  |
| Col24 | 34 | -0.23 | 0.00 | 0.46  |
| Col24 | 35 | -0.03 | 0.00 | 0.46  |
| Col24 | 36 | 0.14  | 0.00 | 0.00  |
| Col24 | 37 | 0.14  | 0.00 | 0.00  |
| Col24 | 38 | 0.66  | 0.00 | 0.00  |
| Col24 | 39 | 0.66  | 0.00 | 0.00  |
| Col24 | 40 | 0.49  | 0.00 | 0.00  |
| Col24 | 41 | 0.49  | 0.00 | 0.00  |
| Col24 | 42 | 0.49  | 0.00 | 0.00  |
| Col24 | 43 | 0.49  | 0.00 | 0.00  |
| Col24 | 44 | 0.09  | 0.00 | 0.00  |
| Col24 | 45 | 0.09  | 0.00 | 0.00  |
| Col24 | 46 | 0.69  | 0.00 | 0.00  |
| Col24 | 47 | 0.32  | 0.00 | 0.35  |
| Col24 | 48 | 0.46  | 0.00 | 0.35  |
| Col24 | 49 | 0.13  | 0.00 | 0.00  |
| Col24 | 50 | 0.13  | 0.00 | 0.00  |
| Col24 | 51 | 0.09  | 0.00 | 0.00  |
| Col24 | 52 | 0.09  | 0.00 | 0.00  |
| Col24 | 53 | 0.77  | 0.00 | 0.00  |
| Col24 | 54 | 0.61  | 0.00 | 0.00  |
| Col24 | 55 | 0.61  | 0.00 | 0.35  |
| Col24 | 56 | 0.62  | 0.00 | 0.00  |
| Col25 | 1  | 0.83  | 0.00 | 0.00  |
| Col25 | 2  | 0.13  | 0.00 | 0.00  |
| Col25 | 3  | 0.60  | 0.00 | 0.00  |
| Col25 | 4  | 0.60  | 0.00 | 0.00  |
| Col25 | 5  | 0.66  | 0.00 | 0.00  |
| Col25 | 6  | 0.49  | 0.00 | 0.00  |
| Col25 | 7  | 0.49  | 0.00 | 0.00  |
| Col25 | 8  | -0.34 | 0.00 | -0.43 |
| Col25 | 9  | -0.15 | 0.00 | -0.43 |
| Col25 | 10 | -0.34 | 0.00 | 0.47  |
| Col25 | 11 | -0.15 | 0.00 | 0.47  |
| Col25 | 12 | -0.34 | 0.00 | 0.47  |
| Col25 | 13 | -0.15 | 0.00 | 0.47  |
| Col25 | 14 | -0.20 | 0.00 | 0.47  |
| Col25 | 15 | 0.00  | 0.00 | 0.47  |
| Col25 | 16 | 0.42  | 0.00 | 0.35  |
| Col25 | 17 | 0.57  | 0.00 | 0.35  |
| Col25 | 18 | 0.31  | 0.00 | 0.35  |
| Col25 | 19 | 0.46  | 0.00 | 0.35  |
| Col25 | 20 | 0.25  | 0.00 | 0.35  |
| Col25 | 21 | 0.39  | 0.00 | 0.35  |
| Col25 | 22 | 0.14  | 0.00 | 0.35  |
| Col25 | 23 | 0.29  | 0.00 | 0.35  |
| Col25 | 24 | 0.25  | 0.00 | 0.35  |
| Col25 | 25 | 0.39  | 0.00 | 0.35  |
| Col25 | 26 | 0.14  | 0.00 | 0.35  |
| Col25 | 27 | 0.29  | 0.00 | 0.35  |
| Col25 | 28 | -0.37 | 0.00 | -0.43 |
| Col25 | 29 | -0.18 | 0.00 | -0.43 |
| Col25 | 30 | -0.37 | 0.00 | 0.47  |
| Col25 | 31 | -0.18 | 0.00 | 0.47  |
| Col25 | 32 | -0.37 | 0.00 | 0.47  |
| Col25 | 33 | -0.18 | 0.00 | 0.47  |
| Col25 | 34 | -0.23 | 0.00 | 0.47  |
| Col25 | 35 | -0.03 | 0.00 | 0.47  |
| Col25 | 36 | 0.14  | 0.00 | 0.00  |
| Col25 | 37 | 0.14  | 0.00 | 0.00  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col125 | 38 | 0.66  | 0.00 | 0.00  |
| Col125 | 39 | 0.66  | 0.00 | 0.00  |
| Col125 | 40 | 0.49  | 0.00 | 0.00  |
| Col125 | 41 | 0.49  | 0.00 | 0.00  |
| Col125 | 42 | 0.49  | 0.00 | 0.00  |
| Col125 | 43 | 0.49  | 0.00 | 0.00  |
| Col125 | 44 | 0.09  | 0.00 | 0.00  |
| Col125 | 45 | 0.09  | 0.00 | 0.00  |
| Col125 | 46 | 0.69  | 0.00 | 0.00  |
| Col125 | 47 | 0.32  | 0.00 | 0.35  |
| Col125 | 48 | 0.46  | 0.00 | 0.35  |
| Col125 | 49 | 0.13  | 0.00 | 0.00  |
| Col125 | 50 | 0.13  | 0.00 | 0.00  |
| Col125 | 51 | 0.09  | 0.00 | 0.00  |
| Col125 | 52 | 0.09  | 0.00 | 0.00  |
| Col125 | 53 | 0.78  | 0.00 | 0.00  |
| Col125 | 54 | 0.62  | 0.00 | 0.00  |
| Col125 | 55 | 0.62  | 0.00 | 0.35  |
| Col125 | 56 | 0.62  | 0.00 | 0.00  |
| Col126 | 1  | 0.83  | 0.00 | 0.00  |
| Col126 | 2  | 0.13  | 0.00 | 0.00  |
| Col126 | 3  | 0.60  | 0.00 | 0.00  |
| Col126 | 4  | 0.60  | 0.00 | 0.00  |
| Col126 | 5  | 0.66  | 0.00 | 0.00  |
| Col126 | 6  | 0.49  | 0.00 | 0.00  |
| Col126 | 7  | 0.49  | 0.00 | 0.00  |
| Col126 | 8  | -0.34 | 0.00 | -0.43 |
| Col126 | 9  | -0.15 | 0.00 | -0.43 |
| Col126 | 10 | -0.34 | 0.00 | 0.48  |
| Col126 | 11 | -0.15 | 0.00 | 0.48  |
| Col126 | 12 | -0.34 | 0.00 | 0.48  |
| Col126 | 13 | -0.15 | 0.00 | 0.48  |
| Col126 | 14 | -0.20 | 0.00 | 0.48  |
| Col126 | 15 | 0.00  | 0.00 | 0.48  |
| Col126 | 16 | 0.42  | 0.00 | 0.36  |
| Col126 | 17 | 0.57  | 0.00 | 0.36  |
| Col126 | 18 | 0.31  | 0.00 | 0.36  |
| Col126 | 19 | 0.46  | 0.00 | 0.36  |
| Col126 | 20 | 0.25  | 0.00 | 0.36  |
| Col126 | 21 | 0.40  | 0.00 | 0.36  |
| Col126 | 22 | 0.14  | 0.00 | 0.36  |
| Col126 | 23 | 0.29  | 0.00 | 0.36  |
| Col126 | 24 | 0.25  | 0.00 | 0.36  |
| Col126 | 25 | 0.40  | 0.00 | 0.36  |
| Col126 | 26 | 0.14  | 0.00 | 0.36  |
| Col126 | 27 | 0.29  | 0.00 | 0.36  |
| Col126 | 28 | -0.37 | 0.00 | -0.43 |
| Col126 | 29 | -0.18 | 0.00 | -0.43 |
| Col126 | 30 | -0.37 | 0.00 | 0.48  |
| Col126 | 31 | -0.18 | 0.00 | 0.48  |
| Col126 | 32 | -0.37 | 0.00 | 0.48  |
| Col126 | 33 | -0.18 | 0.00 | 0.48  |
| Col126 | 34 | -0.23 | 0.00 | 0.48  |
| Col126 | 35 | -0.03 | 0.00 | 0.48  |
| Col126 | 36 | 0.14  | 0.00 | 0.00  |
| Col126 | 37 | 0.14  | 0.00 | 0.00  |
| Col126 | 38 | 0.66  | 0.00 | 0.00  |
| Col126 | 39 | 0.66  | 0.00 | 0.00  |
| Col126 | 40 | 0.49  | 0.00 | 0.00  |
| Col126 | 41 | 0.49  | 0.00 | 0.00  |
| Col126 | 42 | 0.49  | 0.00 | 0.00  |
| Col126 | 43 | 0.49  | 0.00 | 0.00  |
| Col126 | 44 | 0.09  | 0.00 | 0.00  |
| Col126 | 45 | 0.09  | 0.00 | 0.00  |
| Col126 | 46 | 0.69  | 0.00 | 0.00  |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col26 | 47 | 0.32  | 0.00 | 0.36 |
| Col26 | 48 | 0.46  | 0.00 | 0.36 |
| Col26 | 49 | 0.13  | 0.00 | 0.00 |
| Col26 | 50 | 0.13  | 0.00 | 0.00 |
| Col26 | 51 | 0.09  | 0.00 | 0.00 |
| Col26 | 52 | 0.09  | 0.00 | 0.00 |
| Col26 | 53 | 0.78  | 0.00 | 0.00 |
| Col26 | 54 | 0.62  | 0.00 | 0.00 |
| Col26 | 55 | 0.62  | 0.00 | 0.36 |
| Col26 | 56 | 0.62  | 0.00 | 0.00 |
| Col27 | 1  | 0.83  | 0.00 | 0.00 |
| Col27 | 2  | 0.13  | 0.00 | 0.00 |
| Col27 | 3  | 0.60  | 0.00 | 0.00 |
| Col27 | 4  | 0.60  | 0.00 | 0.00 |
| Col27 | 5  | 0.66  | 0.00 | 0.00 |
| Col27 | 6  | 0.49  | 0.00 | 0.00 |
| Col27 | 7  | 0.49  | 0.00 | 0.00 |
| Col27 | 8  | -0.24 | 0.00 | 0.00 |
| Col27 | 9  | -0.24 | 0.00 | 0.00 |
| Col27 | 10 | -0.24 | 0.00 | 0.00 |
| Col27 | 11 | -0.24 | 0.00 | 0.00 |
| Col27 | 12 | -0.24 | 0.00 | 0.00 |
| Col27 | 13 | -0.24 | 0.00 | 0.00 |
| Col27 | 14 | -0.10 | 0.00 | 0.00 |
| Col27 | 15 | -0.10 | 0.00 | 0.00 |
| Col27 | 16 | 0.50  | 0.00 | 0.00 |
| Col27 | 17 | 0.50  | 0.00 | 0.00 |
| Col27 | 18 | 0.39  | 0.00 | 0.00 |
| Col27 | 19 | 0.39  | 0.00 | 0.00 |
| Col27 | 20 | 0.32  | 0.00 | 0.00 |
| Col27 | 21 | 0.32  | 0.00 | 0.00 |
| Col27 | 22 | 0.22  | 0.00 | 0.00 |
| Col27 | 23 | 0.22  | 0.00 | 0.00 |
| Col27 | 24 | 0.32  | 0.00 | 0.00 |
| Col27 | 25 | 0.32  | 0.00 | 0.00 |
| Col27 | 26 | 0.22  | 0.00 | 0.00 |
| Col27 | 27 | 0.22  | 0.00 | 0.00 |
| Col27 | 28 | -0.27 | 0.00 | 0.00 |
| Col27 | 29 | -0.27 | 0.00 | 0.00 |
| Col27 | 30 | -0.27 | 0.00 | 0.00 |
| Col27 | 31 | -0.27 | 0.00 | 0.00 |
| Col27 | 32 | -0.27 | 0.00 | 0.00 |
| Col27 | 33 | -0.27 | 0.00 | 0.00 |
| Col27 | 34 | -0.13 | 0.00 | 0.00 |
| Col27 | 35 | -0.13 | 0.00 | 0.00 |
| Col27 | 36 | 0.14  | 0.00 | 0.00 |
| Col27 | 37 | 0.14  | 0.00 | 0.00 |
| Col27 | 38 | 0.66  | 0.00 | 0.00 |
| Col27 | 39 | 0.66  | 0.00 | 0.00 |
| Col27 | 40 | 0.49  | 0.00 | 0.00 |
| Col27 | 41 | 0.49  | 0.00 | 0.00 |
| Col27 | 42 | 0.49  | 0.00 | 0.00 |
| Col27 | 43 | 0.49  | 0.00 | 0.00 |
| Col27 | 44 | 0.09  | 0.00 | 0.00 |
| Col27 | 45 | 0.09  | 0.00 | 0.00 |
| Col27 | 46 | 0.68  | 0.00 | 0.00 |
| Col27 | 47 | 0.38  | 0.00 | 0.00 |
| Col27 | 48 | 0.38  | 0.00 | 0.00 |
| Col27 | 49 | 0.13  | 0.00 | 0.00 |
| Col27 | 50 | 0.13  | 0.00 | 0.00 |
| Col27 | 51 | 0.09  | 0.00 | 0.00 |
| Col27 | 52 | 0.09  | 0.00 | 0.00 |
| Col27 | 53 | 0.77  | 0.00 | 0.00 |
| Col27 | 54 | 0.61  | 0.00 | 0.00 |
| Col27 | 55 | 0.61  | 0.00 | 0.00 |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col127 | 56 | 0.61  | 0.00 | 0.00  |
| Col128 | 1  | 0.83  | 0.00 | 0.00  |
| Col128 | 2  | 0.13  | 0.00 | 0.00  |
| Col128 | 3  | 0.60  | 0.00 | 0.00  |
| Col128 | 4  | 0.60  | 0.00 | 0.00  |
| Col128 | 5  | 0.66  | 0.00 | 0.00  |
| Col128 | 6  | 0.49  | 0.00 | 0.00  |
| Col128 | 7  | 0.49  | 0.00 | 0.00  |
| Col128 | 8  | -0.15 | 0.00 | -0.43 |
| Col128 | 9  | -0.34 | 0.00 | -0.43 |
| Col128 | 10 | -0.15 | 0.00 | 0.48  |
| Col128 | 11 | -0.34 | 0.00 | 0.48  |
| Col128 | 12 | -0.15 | 0.00 | 0.48  |
| Col128 | 13 | -0.34 | 0.00 | 0.48  |
| Col128 | 14 | 0.00  | 0.00 | 0.48  |
| Col128 | 15 | -0.20 | 0.00 | 0.48  |
| Col128 | 16 | 0.57  | 0.00 | 0.36  |
| Col128 | 17 | 0.42  | 0.00 | 0.36  |
| Col128 | 18 | 0.46  | 0.00 | 0.36  |
| Col128 | 19 | 0.31  | 0.00 | 0.36  |
| Col128 | 20 | 0.40  | 0.00 | 0.36  |
| Col128 | 21 | 0.25  | 0.00 | 0.36  |
| Col128 | 22 | 0.29  | 0.00 | 0.36  |
| Col128 | 23 | 0.14  | 0.00 | 0.36  |
| Col128 | 24 | 0.40  | 0.00 | 0.36  |
| Col128 | 25 | 0.25  | 0.00 | 0.36  |
| Col128 | 26 | 0.29  | 0.00 | 0.36  |
| Col128 | 27 | 0.14  | 0.00 | 0.36  |
| Col128 | 28 | -0.18 | 0.00 | -0.43 |
| Col128 | 29 | -0.37 | 0.00 | -0.43 |
| Col128 | 30 | -0.18 | 0.00 | 0.48  |
| Col128 | 31 | -0.37 | 0.00 | 0.48  |
| Col128 | 32 | -0.18 | 0.00 | 0.48  |
| Col128 | 33 | -0.37 | 0.00 | 0.48  |
| Col128 | 34 | -0.03 | 0.00 | 0.48  |
| Col128 | 35 | -0.23 | 0.00 | 0.48  |
| Col128 | 36 | 0.14  | 0.00 | 0.00  |
| Col128 | 37 | 0.14  | 0.00 | 0.00  |
| Col128 | 38 | 0.66  | 0.00 | 0.00  |
| Col128 | 39 | 0.66  | 0.00 | 0.00  |
| Col128 | 40 | 0.49  | 0.00 | 0.00  |
| Col128 | 41 | 0.49  | 0.00 | 0.00  |
| Col128 | 42 | 0.49  | 0.00 | 0.00  |
| Col128 | 43 | 0.49  | 0.00 | 0.00  |
| Col128 | 44 | 0.09  | 0.00 | 0.00  |
| Col128 | 45 | 0.09  | 0.00 | 0.00  |
| Col128 | 46 | 0.69  | 0.00 | 0.00  |
| Col128 | 47 | 0.46  | 0.00 | 0.36  |
| Col128 | 48 | 0.32  | 0.00 | 0.36  |
| Col128 | 49 | 0.13  | 0.00 | 0.00  |
| Col128 | 50 | 0.13  | 0.00 | 0.00  |
| Col128 | 51 | 0.09  | 0.00 | 0.00  |
| Col128 | 52 | 0.09  | 0.00 | 0.00  |
| Col128 | 53 | 0.79  | 0.00 | 0.00  |
| Col128 | 54 | 0.63  | 0.00 | 0.00  |
| Col128 | 55 | 0.63  | 0.00 | 0.36  |
| Col128 | 56 | 0.63  | 0.00 | 0.00  |
| Col129 | 1  | 0.83  | 0.00 | 0.00  |
| Col129 | 2  | 0.13  | 0.00 | 0.00  |
| Col129 | 3  | 0.60  | 0.00 | 0.00  |
| Col129 | 4  | 0.60  | 0.00 | 0.00  |
| Col129 | 5  | 0.66  | 0.00 | 0.00  |
| Col129 | 6  | 0.49  | 0.00 | 0.00  |
| Col129 | 7  | 0.49  | 0.00 | 0.00  |
| Col129 | 8  | -0.15 | 0.00 | -0.43 |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col129 | 9  | -0.34 | 0.00 | -0.43 |
| Col129 | 10 | -0.15 | 0.00 | 0.47  |
| Col129 | 11 | -0.34 | 0.00 | 0.47  |
| Col129 | 12 | -0.15 | 0.00 | 0.47  |
| Col129 | 13 | -0.34 | 0.00 | 0.47  |
| Col129 | 14 | 0.00  | 0.00 | 0.47  |
| Col129 | 15 | -0.20 | 0.00 | 0.47  |
| Col129 | 16 | 0.57  | 0.00 | 0.35  |
| Col129 | 17 | 0.42  | 0.00 | 0.35  |
| Col129 | 18 | 0.46  | 0.00 | 0.35  |
| Col129 | 19 | 0.31  | 0.00 | 0.35  |
| Col129 | 20 | 0.39  | 0.00 | 0.35  |
| Col129 | 21 | 0.25  | 0.00 | 0.35  |
| Col129 | 22 | 0.29  | 0.00 | 0.35  |
| Col129 | 23 | 0.14  | 0.00 | 0.35  |
| Col129 | 24 | 0.39  | 0.00 | 0.35  |
| Col129 | 25 | 0.25  | 0.00 | 0.35  |
| Col129 | 26 | 0.29  | 0.00 | 0.35  |
| Col129 | 27 | 0.14  | 0.00 | 0.35  |
| Col129 | 28 | -0.18 | 0.00 | -0.43 |
| Col129 | 29 | -0.37 | 0.00 | -0.43 |
| Col129 | 30 | -0.18 | 0.00 | 0.47  |
| Col129 | 31 | -0.37 | 0.00 | 0.47  |
| Col129 | 32 | -0.18 | 0.00 | 0.47  |
| Col129 | 33 | -0.37 | 0.00 | 0.47  |
| Col129 | 34 | -0.03 | 0.00 | 0.47  |
| Col129 | 35 | -0.23 | 0.00 | 0.47  |
| Col129 | 36 | 0.14  | 0.00 | 0.00  |
| Col129 | 37 | 0.14  | 0.00 | 0.00  |
| Col129 | 38 | 0.66  | 0.00 | 0.00  |
| Col129 | 39 | 0.66  | 0.00 | 0.00  |
| Col129 | 40 | 0.49  | 0.00 | 0.00  |
| Col129 | 41 | 0.49  | 0.00 | 0.00  |
| Col129 | 42 | 0.49  | 0.00 | 0.00  |
| Col129 | 43 | 0.49  | 0.00 | 0.00  |
| Col129 | 44 | 0.09  | 0.00 | 0.00  |
| Col129 | 45 | 0.09  | 0.00 | 0.00  |
| Col129 | 46 | 0.69  | 0.00 | 0.00  |
| Col129 | 47 | 0.46  | 0.00 | 0.35  |
| Col129 | 48 | 0.32  | 0.00 | 0.35  |
| Col129 | 49 | 0.13  | 0.00 | 0.00  |
| Col129 | 50 | 0.13  | 0.00 | 0.00  |
| Col129 | 51 | 0.09  | 0.00 | 0.00  |
| Col129 | 52 | 0.09  | 0.00 | 0.00  |
| Col129 | 53 | 0.79  | 0.00 | 0.00  |
| Col129 | 54 | 0.63  | 0.00 | 0.00  |
| Col129 | 55 | 0.63  | 0.00 | 0.35  |
| Col129 | 56 | 0.63  | 0.00 | 0.00  |
| Col130 | 1  | 0.83  | 0.00 | 0.00  |
| Col130 | 2  | 0.13  | 0.00 | 0.00  |
| Col130 | 3  | 0.60  | 0.00 | 0.00  |
| Col130 | 4  | 0.60  | 0.00 | 0.00  |
| Col130 | 5  | 0.66  | 0.00 | 0.00  |
| Col130 | 6  | 0.49  | 0.00 | 0.00  |
| Col130 | 7  | 0.49  | 0.00 | 0.00  |
| Col130 | 8  | -0.15 | 0.00 | -0.42 |
| Col130 | 9  | -0.34 | 0.00 | -0.42 |
| Col130 | 10 | -0.15 | 0.00 | 0.46  |
| Col130 | 11 | -0.34 | 0.00 | 0.46  |
| Col130 | 12 | -0.15 | 0.00 | 0.46  |
| Col130 | 13 | -0.34 | 0.00 | 0.46  |
| Col130 | 14 | -0.01 | 0.00 | 0.46  |
| Col130 | 15 | -0.20 | 0.00 | 0.46  |
| Col130 | 16 | 0.57  | 0.00 | 0.35  |
| Col130 | 17 | 0.42  | 0.00 | 0.35  |



|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col130 | 18 | 0.46  | 0.00 | 0.35  |
| Col130 | 19 | 0.31  | 0.00 | 0.35  |
| Col130 | 20 | 0.39  | 0.00 | 0.35  |
| Col130 | 21 | 0.25  | 0.00 | 0.35  |
| Col130 | 22 | 0.29  | 0.00 | 0.35  |
| Col130 | 23 | 0.14  | 0.00 | 0.35  |
| Col130 | 24 | 0.39  | 0.00 | 0.35  |
| Col130 | 25 | 0.25  | 0.00 | 0.35  |
| Col130 | 26 | 0.29  | 0.00 | 0.35  |
| Col130 | 27 | 0.14  | 0.00 | 0.35  |
| Col130 | 28 | -0.18 | 0.00 | -0.42 |
| Col130 | 29 | -0.37 | 0.00 | -0.42 |
| Col130 | 30 | -0.18 | 0.00 | 0.46  |
| Col130 | 31 | -0.37 | 0.00 | 0.46  |
| Col130 | 32 | -0.18 | 0.00 | 0.46  |
| Col130 | 33 | -0.37 | 0.00 | 0.46  |
| Col130 | 34 | -0.03 | 0.00 | 0.46  |
| Col130 | 35 | -0.23 | 0.00 | 0.46  |
| Col130 | 36 | 0.14  | 0.00 | 0.00  |
| Col130 | 37 | 0.14  | 0.00 | 0.00  |
| Col130 | 38 | 0.66  | 0.00 | 0.00  |
| Col130 | 39 | 0.66  | 0.00 | 0.00  |
| Col130 | 40 | 0.49  | 0.00 | 0.00  |
| Col130 | 41 | 0.49  | 0.00 | 0.00  |
| Col130 | 42 | 0.49  | 0.00 | 0.00  |
| Col130 | 43 | 0.49  | 0.00 | 0.00  |
| Col130 | 44 | 0.09  | 0.00 | 0.00  |
| Col130 | 45 | 0.09  | 0.00 | 0.00  |
| Col130 | 46 | 0.69  | 0.00 | 0.00  |
| Col130 | 47 | 0.46  | 0.00 | 0.35  |
| Col130 | 48 | 0.32  | 0.00 | 0.35  |
| Col130 | 49 | 0.13  | 0.00 | 0.00  |
| Col130 | 50 | 0.13  | 0.00 | 0.00  |
| Col130 | 51 | 0.09  | 0.00 | 0.00  |
| Col130 | 52 | 0.09  | 0.00 | 0.00  |
| Col130 | 53 | 0.79  | 0.00 | 0.00  |
| Col130 | 54 | 0.63  | 0.00 | 0.00  |
| Col130 | 55 | 0.63  | 0.00 | 0.35  |
| Col130 | 56 | 0.63  | 0.00 | 0.00  |
| Col131 | 1  | 0.83  | 0.00 | 0.00  |
| Col131 | 2  | 0.13  | 0.00 | 0.00  |
| Col131 | 3  | 0.60  | 0.00 | 0.00  |
| Col131 | 4  | 0.60  | 0.00 | 0.00  |
| Col131 | 5  | 0.66  | 0.00 | 0.00  |
| Col131 | 6  | 0.48  | 0.00 | 0.00  |
| Col131 | 7  | 0.48  | 0.00 | 0.00  |
| Col131 | 8  | -0.15 | 0.00 | -0.42 |
| Col131 | 9  | -0.34 | 0.00 | -0.42 |
| Col131 | 10 | -0.15 | 0.00 | 0.46  |
| Col131 | 11 | -0.34 | 0.00 | 0.46  |
| Col131 | 12 | -0.15 | 0.00 | 0.46  |
| Col131 | 13 | -0.34 | 0.00 | 0.46  |
| Col131 | 14 | -0.01 | 0.00 | 0.46  |
| Col131 | 15 | -0.20 | 0.00 | 0.46  |
| Col131 | 16 | 0.57  | 0.00 | 0.34  |
| Col131 | 17 | 0.42  | 0.00 | 0.34  |
| Col131 | 18 | 0.46  | 0.00 | 0.34  |
| Col131 | 19 | 0.31  | 0.00 | 0.34  |
| Col131 | 20 | 0.39  | 0.00 | 0.34  |
| Col131 | 21 | 0.25  | 0.00 | 0.34  |
| Col131 | 22 | 0.28  | 0.00 | 0.34  |
| Col131 | 23 | 0.14  | 0.00 | 0.34  |
| Col131 | 24 | 0.39  | 0.00 | 0.34  |
| Col131 | 25 | 0.25  | 0.00 | 0.34  |
| Col131 | 26 | 0.28  | 0.00 | 0.34  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col131 | 27 | 0.14  | 0.00 | 0.34  |
| Col131 | 28 | -0.18 | 0.00 | -0.42 |
| Col131 | 29 | -0.37 | 0.00 | -0.42 |
| Col131 | 30 | -0.18 | 0.00 | 0.46  |
| Col131 | 31 | -0.37 | 0.00 | 0.46  |
| Col131 | 32 | -0.18 | 0.00 | 0.46  |
| Col131 | 33 | -0.37 | 0.00 | 0.46  |
| Col131 | 34 | -0.03 | 0.00 | 0.46  |
| Col131 | 35 | -0.23 | 0.00 | 0.46  |
| Col131 | 36 | 0.14  | 0.00 | 0.00  |
| Col131 | 37 | 0.14  | 0.00 | 0.00  |
| Col131 | 38 | 0.66  | 0.00 | 0.00  |
| Col131 | 39 | 0.66  | 0.00 | 0.00  |
| Col131 | 40 | 0.49  | 0.00 | 0.00  |
| Col131 | 41 | 0.49  | 0.00 | 0.00  |
| Col131 | 42 | 0.49  | 0.00 | 0.00  |
| Col131 | 43 | 0.49  | 0.00 | 0.00  |
| Col131 | 44 | 0.09  | 0.00 | 0.00  |
| Col131 | 45 | 0.09  | 0.00 | 0.00  |
| Col131 | 46 | 0.69  | 0.00 | 0.00  |
| Col131 | 47 | 0.46  | 0.00 | 0.34  |
| Col131 | 48 | 0.32  | 0.00 | 0.34  |
| Col131 | 49 | 0.13  | 0.00 | 0.00  |
| Col131 | 50 | 0.13  | 0.00 | 0.00  |
| Col131 | 51 | 0.09  | 0.00 | 0.00  |
| Col131 | 52 | 0.09  | 0.00 | 0.00  |
| Col131 | 53 | 0.73  | 0.00 | 0.00  |
| Col131 | 54 | 0.58  | 0.00 | 0.00  |
| Col131 | 55 | 0.58  | 0.00 | 0.34  |
| Col131 | 56 | 0.58  | 0.00 | 0.00  |
| Col132 | 1  | 0.83  | 0.00 | 0.00  |
| Col132 | 2  | 0.13  | 0.00 | 0.00  |
| Col132 | 3  | 0.60  | 0.00 | 0.00  |
| Col132 | 4  | 0.60  | 0.00 | 0.00  |
| Col132 | 5  | 0.66  | 0.00 | 0.00  |
| Col132 | 6  | 0.48  | 0.00 | 0.00  |
| Col132 | 7  | 0.48  | 0.00 | 0.00  |
| Col132 | 8  | -0.15 | 0.00 | -0.41 |
| Col132 | 9  | -0.35 | 0.00 | -0.41 |
| Col132 | 10 | -0.15 | 0.00 | 0.48  |
| Col132 | 11 | -0.35 | 0.00 | 0.48  |
| Col132 | 12 | -0.15 | 0.00 | 0.48  |
| Col132 | 13 | -0.35 | 0.00 | 0.48  |
| Col132 | 14 | -0.01 | 0.00 | 0.48  |
| Col132 | 15 | -0.20 | 0.00 | 0.48  |
| Col132 | 16 | 0.57  | 0.00 | 0.36  |
| Col132 | 17 | 0.42  | 0.00 | 0.36  |
| Col132 | 18 | 0.46  | 0.00 | 0.36  |
| Col132 | 19 | 0.31  | 0.00 | 0.36  |
| Col132 | 20 | 0.39  | 0.00 | 0.36  |
| Col132 | 21 | 0.25  | 0.00 | 0.36  |
| Col132 | 22 | 0.28  | 0.00 | 0.36  |
| Col132 | 23 | 0.14  | 0.00 | 0.36  |
| Col132 | 24 | 0.39  | 0.00 | 0.36  |
| Col132 | 25 | 0.25  | 0.00 | 0.36  |
| Col132 | 26 | 0.28  | 0.00 | 0.36  |
| Col132 | 27 | 0.14  | 0.00 | 0.36  |
| Col132 | 28 | -0.18 | 0.00 | -0.41 |
| Col132 | 29 | -0.37 | 0.00 | -0.41 |
| Col132 | 30 | -0.18 | 0.00 | 0.48  |
| Col132 | 31 | -0.37 | 0.00 | 0.48  |
| Col132 | 32 | -0.18 | 0.00 | 0.48  |
| Col132 | 33 | -0.37 | 0.00 | 0.48  |
| Col132 | 34 | -0.03 | 0.00 | 0.48  |
| Col132 | 35 | -0.23 | 0.00 | 0.48  |

|        |    |      |      |      |
|--------|----|------|------|------|
| Col132 | 36 | 0.14 | 0.00 | 0.00 |
| Col132 | 37 | 0.14 | 0.00 | 0.00 |
| Col132 | 38 | 0.66 | 0.00 | 0.00 |
| Col132 | 39 | 0.66 | 0.00 | 0.00 |
| Col132 | 40 | 0.49 | 0.00 | 0.00 |
| Col132 | 41 | 0.49 | 0.00 | 0.00 |
| Col132 | 42 | 0.49 | 0.00 | 0.00 |
| Col132 | 43 | 0.49 | 0.00 | 0.00 |
| Col132 | 44 | 0.08 | 0.00 | 0.00 |
| Col132 | 45 | 0.08 | 0.00 | 0.00 |
| Col132 | 46 | 0.69 | 0.00 | 0.00 |
| Col132 | 47 | 0.46 | 0.00 | 0.36 |
| Col132 | 48 | 0.32 | 0.00 | 0.36 |
| Col132 | 49 | 0.13 | 0.00 | 0.00 |
| Col132 | 50 | 0.13 | 0.00 | 0.00 |
| Col132 | 51 | 0.09 | 0.00 | 0.00 |
| Col132 | 52 | 0.09 | 0.00 | 0.00 |
| Col132 | 53 | 0.61 | 0.00 | 0.00 |
| Col132 | 54 | 0.49 | 0.00 | 0.00 |
| Col132 | 55 | 0.49 | 0.00 | 0.36 |
| Col132 | 56 | 0.49 | 0.00 | 0.00 |

COLUMN DEFLECTIONS:

| Id    | Load |       | Deflection(in) |  |
|-------|------|-------|----------------|--|
|       | Id   | Calc  | Limit          |  |
| Col21 | 1    | 0.00  | 1.08           |  |
| Col21 | 2    | 0.00  | 1.08           |  |
| Col21 | 3    | 0.00  | 1.08           |  |
| Col21 | 4    | 0.00  | 1.08           |  |
| Col21 | 5    | 0.00  | 1.08           |  |
| Col21 | 6    | 0.00  | 1.08           |  |
| Col21 | 7    | 0.00  | 1.08           |  |
| Col21 | 8    | -0.69 | 1.08           |  |
| Col21 | 9    | -0.69 | 1.08           |  |
| Col21 | 10   | 0.80  | 1.08           |  |
| Col21 | 11   | 0.80  | 1.08           |  |
| Col21 | 12   | 0.80  | 1.08           |  |
| Col21 | 13   | 0.80  | 1.08           |  |
| Col21 | 14   | 0.80  | 1.08           |  |
| Col21 | 15   | 0.80  | 1.08           |  |
| Col21 | 16   | 0.60  | 1.08           |  |
| Col21 | 17   | 0.60  | 1.08           |  |
| Col21 | 18   | 0.60  | 1.08           |  |
| Col21 | 19   | 0.60  | 1.08           |  |
| Col21 | 20   | 0.60  | 1.08           |  |
| Col21 | 21   | 0.60  | 1.08           |  |
| Col21 | 22   | 0.60  | 1.08           |  |
| Col21 | 23   | 0.60  | 1.08           |  |
| Col21 | 24   | 0.60  | 1.08           |  |
| Col21 | 25   | 0.60  | 1.08           |  |
| Col21 | 26   | 0.60  | 1.08           |  |
| Col21 | 27   | 0.60  | 1.08           |  |
| Col21 | 28   | -0.69 | 1.08           |  |
| Col21 | 29   | -0.69 | 1.08           |  |
| Col21 | 30   | 0.80  | 1.08           |  |
| Col21 | 31   | 0.80  | 1.08           |  |
| Col21 | 32   | 0.80  | 1.08           |  |
| Col21 | 33   | 0.80  | 1.08           |  |
| Col21 | 34   | 0.80  | 1.08           |  |
| Col21 | 35   | 0.80  | 1.08           |  |
| Col21 | 36   | 0.00  | 1.08           |  |
| Col21 | 37   | 0.00  | 1.08           |  |
| Col21 | 38   | 0.00  | 1.08           |  |

|       |    |       |      |
|-------|----|-------|------|
| Col21 | 39 | 0.00  | 1.08 |
| Col21 | 40 | 0.00  | 1.08 |
| Col21 | 41 | 0.00  | 1.08 |
| Col21 | 42 | 0.00  | 1.08 |
| Col21 | 43 | 0.00  | 1.08 |
| Col21 | 44 | 0.00  | 1.08 |
| Col21 | 45 | 0.00  | 1.08 |
| Col21 | 46 | 0.00  | 1.08 |
| Col21 | 47 | 0.36  | 1.08 |
| Col21 | 48 | 0.36  | 1.08 |
| Col21 | 49 | 0.00  | 1.08 |
| Col21 | 50 | 0.00  | 1.08 |
| Col21 | 51 | 0.60  | 1.08 |
| Col21 | 52 | 0.00  | 1.08 |
| Col22 | 1  | 0.00  | 1.09 |
| Col22 | 2  | 0.00  | 1.09 |
| Col22 | 3  | 0.00  | 1.09 |
| Col22 | 4  | 0.00  | 1.09 |
| Col22 | 5  | 0.00  | 1.09 |
| Col22 | 6  | 0.00  | 1.09 |
| Col22 | 7  | 0.00  | 1.09 |
| Col22 | 8  | -0.73 | 1.09 |
| Col22 | 9  | -0.73 | 1.09 |
| Col22 | 10 | 0.80  | 1.09 |
| Col22 | 11 | 0.80  | 1.09 |
| Col22 | 12 | 0.80  | 1.09 |
| Col22 | 13 | 0.80  | 1.09 |
| Col22 | 14 | 0.80  | 1.09 |
| Col22 | 15 | 0.80  | 1.09 |
| Col22 | 16 | 0.60  | 1.09 |
| Col22 | 17 | 0.60  | 1.09 |
| Col22 | 18 | 0.60  | 1.09 |
| Col22 | 19 | 0.60  | 1.09 |
| Col22 | 20 | 0.60  | 1.09 |
| Col22 | 21 | 0.60  | 1.09 |
| Col22 | 22 | 0.60  | 1.09 |
| Col22 | 23 | 0.60  | 1.09 |
| Col22 | 24 | 0.60  | 1.09 |
| Col22 | 25 | 0.60  | 1.09 |
| Col22 | 26 | 0.60  | 1.09 |
| Col22 | 27 | 0.60  | 1.09 |
| Col22 | 28 | -0.73 | 1.09 |
| Col22 | 29 | -0.73 | 1.09 |
| Col22 | 30 | 0.80  | 1.09 |
| Col22 | 31 | 0.80  | 1.09 |
| Col22 | 32 | 0.80  | 1.09 |
| Col22 | 33 | 0.80  | 1.09 |
| Col22 | 34 | 0.80  | 1.09 |
| Col22 | 35 | 0.80  | 1.09 |
| Col22 | 36 | 0.00  | 1.09 |
| Col22 | 37 | 0.00  | 1.09 |
| Col22 | 38 | 0.00  | 1.09 |
| Col22 | 39 | 0.00  | 1.09 |
| Col22 | 40 | 0.00  | 1.09 |
| Col22 | 41 | 0.00  | 1.09 |
| Col22 | 42 | 0.00  | 1.09 |
| Col22 | 43 | 0.00  | 1.09 |
| Col22 | 44 | 0.00  | 1.09 |
| Col22 | 45 | 0.00  | 1.09 |
| Col22 | 46 | 0.00  | 1.09 |
| Col22 | 47 | 0.36  | 1.09 |
| Col22 | 48 | 0.36  | 1.09 |
| Col22 | 49 | 0.00  | 1.09 |
| Col22 | 50 | 0.00  | 1.09 |
| Col22 | 51 | 0.60  | 1.09 |

|       |    |       |      |
|-------|----|-------|------|
| Col22 | 52 | 0.00  | 1.09 |
| Col23 | 1  | 0.00  | 1.10 |
| Col23 | 2  | 0.00  | 1.10 |
| Col23 | 3  | 0.00  | 1.10 |
| Col23 | 4  | 0.00  | 1.10 |
| Col23 | 5  | 0.00  | 1.10 |
| Col23 | 6  | 0.00  | 1.10 |
| Col23 | 7  | 0.00  | 1.10 |
| Col23 | 8  | -0.77 | 1.10 |
| Col23 | 9  | -0.77 | 1.10 |
| Col23 | 10 | 0.84  | 1.10 |
| Col23 | 11 | 0.84  | 1.10 |
| Col23 | 12 | 0.84  | 1.10 |
| Col23 | 13 | 0.84  | 1.10 |
| Col23 | 14 | 0.84  | 1.10 |
| Col23 | 15 | 0.84  | 1.10 |
| Col23 | 16 | 0.63  | 1.10 |
| Col23 | 17 | 0.63  | 1.10 |
| Col23 | 18 | 0.63  | 1.10 |
| Col23 | 19 | 0.63  | 1.10 |
| Col23 | 20 | 0.63  | 1.10 |
| Col23 | 21 | 0.63  | 1.10 |
| Col23 | 22 | 0.63  | 1.10 |
| Col23 | 23 | 0.63  | 1.10 |
| Col23 | 24 | 0.63  | 1.10 |
| Col23 | 25 | 0.63  | 1.10 |
| Col23 | 26 | 0.63  | 1.10 |
| Col23 | 27 | 0.63  | 1.10 |
| Col23 | 28 | -0.77 | 1.10 |
| Col23 | 29 | -0.77 | 1.10 |
| Col23 | 30 | 0.84  | 1.10 |
| Col23 | 31 | 0.84  | 1.10 |
| Col23 | 32 | 0.84  | 1.10 |
| Col23 | 33 | 0.84  | 1.10 |
| Col23 | 34 | 0.84  | 1.10 |
| Col23 | 35 | 0.84  | 1.10 |
| Col23 | 36 | 0.00  | 1.10 |
| Col23 | 37 | 0.00  | 1.10 |
| Col23 | 38 | 0.00  | 1.10 |
| Col23 | 39 | 0.00  | 1.10 |
| Col23 | 40 | 0.00  | 1.10 |
| Col23 | 41 | 0.00  | 1.10 |
| Col23 | 42 | 0.00  | 1.10 |
| Col23 | 43 | 0.00  | 1.10 |
| Col23 | 44 | 0.00  | 1.10 |
| Col23 | 45 | 0.00  | 1.10 |
| Col23 | 46 | 0.00  | 1.10 |
| Col23 | 47 | 0.38  | 1.10 |
| Col23 | 48 | 0.38  | 1.10 |
| Col23 | 49 | 0.00  | 1.10 |
| Col23 | 50 | 0.00  | 1.10 |
| Col23 | 51 | 0.63  | 1.10 |
| Col23 | 52 | 0.00  | 1.10 |
| Col24 | 1  | 0.00  | 1.12 |
| Col24 | 2  | 0.00  | 1.12 |
| Col24 | 3  | 0.00  | 1.12 |
| Col24 | 4  | 0.00  | 1.12 |
| Col24 | 5  | 0.00  | 1.12 |
| Col24 | 6  | 0.00  | 1.12 |
| Col24 | 7  | 0.00  | 1.12 |
| Col24 | 8  | -0.81 | 1.12 |
| Col24 | 9  | -0.81 | 1.12 |
| Col24 | 10 | 0.89  | 1.12 |
| Col24 | 11 | 0.89  | 1.12 |
| Col24 | 12 | 0.89  | 1.12 |

|       |    |       |      |
|-------|----|-------|------|
| Col24 | 13 | 0.89  | 1.12 |
| Col24 | 14 | 0.89  | 1.12 |
| Col24 | 15 | 0.89  | 1.12 |
| Col24 | 16 | 0.67  | 1.12 |
| Col24 | 17 | 0.67  | 1.12 |
| Col24 | 18 | 0.67  | 1.12 |
| Col24 | 19 | 0.67  | 1.12 |
| Col24 | 20 | 0.67  | 1.12 |
| Col24 | 21 | 0.67  | 1.12 |
| Col24 | 22 | 0.67  | 1.12 |
| Col24 | 23 | 0.67  | 1.12 |
| Col24 | 24 | 0.67  | 1.12 |
| Col24 | 25 | 0.67  | 1.12 |
| Col24 | 26 | 0.67  | 1.12 |
| Col24 | 27 | 0.67  | 1.12 |
| Col24 | 28 | -0.81 | 1.12 |
| Col24 | 29 | -0.81 | 1.12 |
| Col24 | 30 | 0.89  | 1.12 |
| Col24 | 31 | 0.89  | 1.12 |
| Col24 | 32 | 0.89  | 1.12 |
| Col24 | 33 | 0.89  | 1.12 |
| Col24 | 34 | 0.89  | 1.12 |
| Col24 | 35 | 0.89  | 1.12 |
| Col24 | 36 | 0.00  | 1.12 |
| Col24 | 37 | 0.00  | 1.12 |
| Col24 | 38 | 0.00  | 1.12 |
| Col24 | 39 | 0.00  | 1.12 |
| Col24 | 40 | 0.00  | 1.12 |
| Col24 | 41 | 0.00  | 1.12 |
| Col24 | 42 | 0.00  | 1.12 |
| Col24 | 43 | 0.00  | 1.12 |
| Col24 | 44 | 0.00  | 1.12 |
| Col24 | 45 | 0.00  | 1.12 |
| Col24 | 46 | 0.00  | 1.12 |
| Col24 | 47 | 0.40  | 1.12 |
| Col24 | 48 | 0.40  | 1.12 |
| Col24 | 49 | 0.00  | 1.12 |
| Col24 | 50 | 0.00  | 1.12 |
| Col24 | 51 | 0.67  | 1.12 |
| Col24 | 52 | 0.00  | 1.12 |
| Col25 | 1  | 0.00  | 1.13 |
| Col25 | 2  | 0.00  | 1.13 |
| Col25 | 3  | 0.00  | 1.13 |
| Col25 | 4  | 0.00  | 1.13 |
| Col25 | 5  | 0.00  | 1.13 |
| Col25 | 6  | 0.00  | 1.13 |
| Col25 | 7  | 0.00  | 1.13 |
| Col25 | 8  | -0.85 | 1.13 |
| Col25 | 9  | -0.85 | 1.13 |
| Col25 | 10 | 0.93  | 1.13 |
| Col25 | 11 | 0.93  | 1.13 |
| Col25 | 12 | 0.93  | 1.13 |
| Col25 | 13 | 0.93  | 1.13 |
| Col25 | 14 | 0.93  | 1.13 |
| Col25 | 15 | 0.93  | 1.13 |
| Col25 | 16 | 0.70  | 1.13 |
| Col25 | 17 | 0.70  | 1.13 |
| Col25 | 18 | 0.70  | 1.13 |
| Col25 | 19 | 0.70  | 1.13 |
| Col25 | 20 | 0.70  | 1.13 |
| Col25 | 21 | 0.70  | 1.13 |
| Col25 | 22 | 0.70  | 1.13 |
| Col25 | 23 | 0.70  | 1.13 |
| Col25 | 24 | 0.70  | 1.13 |
| Col25 | 25 | 0.70  | 1.13 |

|       |    |       |      |
|-------|----|-------|------|
| Col25 | 26 | 0.70  | 1.13 |
| Col25 | 27 | 0.70  | 1.13 |
| Col25 | 28 | -0.85 | 1.13 |
| Col25 | 29 | -0.85 | 1.13 |
| Col25 | 30 | 0.93  | 1.13 |
| Col25 | 31 | 0.93  | 1.13 |
| Col25 | 32 | 0.93  | 1.13 |
| Col25 | 33 | 0.93  | 1.13 |
| Col25 | 34 | 0.93  | 1.13 |
| Col25 | 35 | 0.93  | 1.13 |
| Col25 | 36 | 0.00  | 1.13 |
| Col25 | 37 | 0.00  | 1.13 |
| Col25 | 38 | 0.00  | 1.13 |
| Col25 | 39 | 0.00  | 1.13 |
| Col25 | 40 | 0.00  | 1.13 |
| Col25 | 41 | 0.00  | 1.13 |
| Col25 | 42 | 0.00  | 1.13 |
| Col25 | 43 | 0.00  | 1.13 |
| Col25 | 44 | 0.00  | 1.13 |
| Col25 | 45 | 0.00  | 1.13 |
| Col25 | 46 | 0.00  | 1.13 |
| Col25 | 47 | 0.42  | 1.13 |
| Col25 | 48 | 0.42  | 1.13 |
| Col25 | 49 | 0.00  | 1.13 |
| Col25 | 50 | 0.00  | 1.13 |
| Col25 | 51 | 0.70  | 1.13 |
| Col25 | 52 | 0.00  | 1.13 |
| Col26 | 1  | 0.00  | 1.14 |
| Col26 | 2  | 0.00  | 1.14 |
| Col26 | 3  | 0.00  | 1.14 |
| Col26 | 4  | 0.00  | 1.14 |
| Col26 | 5  | 0.00  | 1.14 |
| Col26 | 6  | 0.00  | 1.14 |
| Col26 | 7  | 0.00  | 1.14 |
| Col26 | 8  | -0.89 | 1.14 |
| Col26 | 9  | -0.89 | 1.14 |
| Col26 | 10 | 0.98  | 1.14 |
| Col26 | 11 | 0.98  | 1.14 |
| Col26 | 12 | 0.98  | 1.14 |
| Col26 | 13 | 0.98  | 1.14 |
| Col26 | 14 | 0.98  | 1.14 |
| Col26 | 15 | 0.98  | 1.14 |
| Col26 | 16 | 0.73  | 1.14 |
| Col26 | 17 | 0.73  | 1.14 |
| Col26 | 18 | 0.73  | 1.14 |
| Col26 | 19 | 0.73  | 1.14 |
| Col26 | 20 | 0.73  | 1.14 |
| Col26 | 21 | 0.73  | 1.14 |
| Col26 | 22 | 0.73  | 1.14 |
| Col26 | 23 | 0.73  | 1.14 |
| Col26 | 24 | 0.73  | 1.14 |
| Col26 | 25 | 0.73  | 1.14 |
| Col26 | 26 | 0.73  | 1.14 |
| Col26 | 27 | 0.73  | 1.14 |
| Col26 | 28 | -0.89 | 1.14 |
| Col26 | 29 | -0.89 | 1.14 |
| Col26 | 30 | 0.98  | 1.14 |
| Col26 | 31 | 0.98  | 1.14 |
| Col26 | 32 | 0.98  | 1.14 |
| Col26 | 33 | 0.98  | 1.14 |
| Col26 | 34 | 0.98  | 1.14 |
| Col26 | 35 | 0.98  | 1.14 |
| Col26 | 36 | 0.00  | 1.14 |
| Col26 | 37 | 0.00  | 1.14 |
| Col26 | 38 | 0.00  | 1.14 |

|       |    |      |      |
|-------|----|------|------|
| Col26 | 39 | 0.00 | 1.14 |
| Col26 | 40 | 0.00 | 1.14 |
| Col26 | 41 | 0.00 | 1.14 |
| Col26 | 42 | 0.00 | 1.14 |
| Col26 | 43 | 0.00 | 1.14 |
| Col26 | 44 | 0.00 | 1.14 |
| Col26 | 45 | 0.00 | 1.14 |
| Col26 | 46 | 0.00 | 1.14 |
| Col26 | 47 | 0.44 | 1.14 |
| Col26 | 48 | 0.44 | 1.14 |
| Col26 | 49 | 0.00 | 1.14 |
| Col26 | 50 | 0.00 | 1.14 |
| Col26 | 51 | 0.73 | 1.14 |
| Col26 | 52 | 0.00 | 1.14 |
| Col27 | 1  | 0.00 | 1.15 |
| Col27 | 2  | 0.00 | 1.15 |
| Col27 | 3  | 0.00 | 1.15 |
| Col27 | 4  | 0.00 | 1.15 |
| Col27 | 5  | 0.00 | 1.15 |
| Col27 | 6  | 0.00 | 1.15 |
| Col27 | 7  | 0.00 | 1.15 |
| Col27 | 8  | 0.00 | 1.15 |
| Col27 | 9  | 0.00 | 1.15 |
| Col27 | 10 | 0.00 | 1.15 |
| Col27 | 11 | 0.00 | 1.15 |
| Col27 | 12 | 0.00 | 1.15 |
| Col27 | 13 | 0.00 | 1.15 |
| Col27 | 14 | 0.00 | 1.15 |
| Col27 | 15 | 0.00 | 1.15 |
| Col27 | 16 | 0.00 | 1.15 |
| Col27 | 17 | 0.00 | 1.15 |
| Col27 | 18 | 0.00 | 1.15 |
| Col27 | 19 | 0.00 | 1.15 |
| Col27 | 20 | 0.00 | 1.15 |
| Col27 | 21 | 0.00 | 1.15 |
| Col27 | 22 | 0.00 | 1.15 |
| Col27 | 23 | 0.00 | 1.15 |
| Col27 | 24 | 0.00 | 1.15 |
| Col27 | 25 | 0.00 | 1.15 |
| Col27 | 26 | 0.00 | 1.15 |
| Col27 | 27 | 0.00 | 1.15 |
| Col27 | 28 | 0.00 | 1.15 |
| Col27 | 29 | 0.00 | 1.15 |
| Col27 | 30 | 0.00 | 1.15 |
| Col27 | 31 | 0.00 | 1.15 |
| Col27 | 32 | 0.00 | 1.15 |
| Col27 | 33 | 0.00 | 1.15 |
| Col27 | 34 | 0.00 | 1.15 |
| Col27 | 35 | 0.00 | 1.15 |
| Col27 | 36 | 0.00 | 1.15 |
| Col27 | 37 | 0.00 | 1.15 |
| Col27 | 38 | 0.00 | 1.15 |
| Col27 | 39 | 0.00 | 1.15 |
| Col27 | 40 | 0.00 | 1.15 |
| Col27 | 41 | 0.00 | 1.15 |
| Col27 | 42 | 0.00 | 1.15 |
| Col27 | 43 | 0.00 | 1.15 |
| Col27 | 44 | 0.00 | 1.15 |
| Col27 | 45 | 0.00 | 1.15 |
| Col27 | 46 | 0.00 | 1.15 |
| Col27 | 47 | 0.00 | 1.15 |
| Col27 | 48 | 0.00 | 1.15 |
| Col27 | 49 | 0.00 | 1.15 |
| Col27 | 50 | 0.00 | 1.15 |
| Col27 | 51 | 0.00 | 1.15 |



|       |    |       |      |
|-------|----|-------|------|
| Col27 | 52 | 0.00  | 1.15 |
| Col28 | 1  | 0.00  | 1.14 |
| Col28 | 2  | 0.00  | 1.14 |
| Col28 | 3  | 0.00  | 1.14 |
| Col28 | 4  | 0.00  | 1.14 |
| Col28 | 5  | 0.00  | 1.14 |
| Col28 | 6  | 0.00  | 1.14 |
| Col28 | 7  | 0.00  | 1.14 |
| Col28 | 8  | -0.89 | 1.14 |
| Col28 | 9  | -0.89 | 1.14 |
| Col28 | 10 | 0.98  | 1.14 |
| Col28 | 11 | 0.98  | 1.14 |
| Col28 | 12 | 0.98  | 1.14 |
| Col28 | 13 | 0.98  | 1.14 |
| Col28 | 14 | 0.98  | 1.14 |
| Col28 | 15 | 0.98  | 1.14 |
| Col28 | 16 | 0.73  | 1.14 |
| Col28 | 17 | 0.73  | 1.14 |
| Col28 | 18 | 0.73  | 1.14 |
| Col28 | 19 | 0.73  | 1.14 |
| Col28 | 20 | 0.73  | 1.14 |
| Col28 | 21 | 0.73  | 1.14 |
| Col28 | 22 | 0.73  | 1.14 |
| Col28 | 23 | 0.73  | 1.14 |
| Col28 | 24 | 0.73  | 1.14 |
| Col28 | 25 | 0.73  | 1.14 |
| Col28 | 26 | 0.73  | 1.14 |
| Col28 | 27 | 0.73  | 1.14 |
| Col28 | 28 | -0.89 | 1.14 |
| Col28 | 29 | -0.89 | 1.14 |
| Col28 | 30 | 0.98  | 1.14 |
| Col28 | 31 | 0.98  | 1.14 |
| Col28 | 32 | 0.98  | 1.14 |
| Col28 | 33 | 0.98  | 1.14 |
| Col28 | 34 | 0.98  | 1.14 |
| Col28 | 35 | 0.98  | 1.14 |
| Col28 | 36 | 0.00  | 1.14 |
| Col28 | 37 | 0.00  | 1.14 |
| Col28 | 38 | 0.00  | 1.14 |
| Col28 | 39 | 0.00  | 1.14 |
| Col28 | 40 | 0.00  | 1.14 |
| Col28 | 41 | 0.00  | 1.14 |
| Col28 | 42 | 0.00  | 1.14 |
| Col28 | 43 | 0.00  | 1.14 |
| Col28 | 44 | 0.00  | 1.14 |
| Col28 | 45 | 0.00  | 1.14 |
| Col28 | 46 | 0.00  | 1.14 |
| Col28 | 47 | 0.44  | 1.14 |
| Col28 | 48 | 0.44  | 1.14 |
| Col28 | 49 | 0.00  | 1.14 |
| Col28 | 50 | 0.00  | 1.14 |
| Col28 | 51 | 0.73  | 1.14 |
| Col28 | 52 | 0.00  | 1.14 |
| Col29 | 1  | 0.00  | 1.13 |
| Col29 | 2  | 0.00  | 1.13 |
| Col29 | 3  | 0.00  | 1.13 |
| Col29 | 4  | 0.00  | 1.13 |
| Col29 | 5  | 0.00  | 1.13 |
| Col29 | 6  | 0.00  | 1.13 |
| Col29 | 7  | 0.00  | 1.13 |
| Col29 | 8  | -0.85 | 1.13 |
| Col29 | 9  | -0.85 | 1.13 |
| Col29 | 10 | 0.93  | 1.13 |
| Col29 | 11 | 0.93  | 1.13 |
| Col29 | 12 | 0.93  | 1.13 |

|        |    |       |      |
|--------|----|-------|------|
| Col29  | 13 | 0.93  | 1.13 |
| Col29  | 14 | 0.93  | 1.13 |
| Col29  | 15 | 0.93  | 1.13 |
| Col29  | 16 | 0.70  | 1.13 |
| Col29  | 17 | 0.70  | 1.13 |
| Col29  | 18 | 0.70  | 1.13 |
| Col29  | 19 | 0.70  | 1.13 |
| Col29  | 20 | 0.70  | 1.13 |
| Col29  | 21 | 0.70  | 1.13 |
| Col29  | 22 | 0.70  | 1.13 |
| Col29  | 23 | 0.70  | 1.13 |
| Col29  | 24 | 0.70  | 1.13 |
| Col29  | 25 | 0.70  | 1.13 |
| Col29  | 26 | 0.70  | 1.13 |
| Col29  | 27 | 0.70  | 1.13 |
| Col29  | 28 | -0.85 | 1.13 |
| Col29  | 29 | -0.85 | 1.13 |
| Col29  | 30 | 0.93  | 1.13 |
| Col29  | 31 | 0.93  | 1.13 |
| Col29  | 32 | 0.93  | 1.13 |
| Col29  | 33 | 0.93  | 1.13 |
| Col29  | 34 | 0.93  | 1.13 |
| Col29  | 35 | 0.93  | 1.13 |
| Col29  | 36 | 0.00  | 1.13 |
| Col29  | 37 | 0.00  | 1.13 |
| Col29  | 38 | 0.00  | 1.13 |
| Col29  | 39 | 0.00  | 1.13 |
| Col29  | 40 | 0.00  | 1.13 |
| Col29  | 41 | 0.00  | 1.13 |
| Col29  | 42 | 0.00  | 1.13 |
| Col29  | 43 | 0.00  | 1.13 |
| Col29  | 44 | 0.00  | 1.13 |
| Col29  | 45 | 0.00  | 1.13 |
| Col29  | 46 | 0.00  | 1.13 |
| Col29  | 47 | 0.42  | 1.13 |
| Col29  | 48 | 0.42  | 1.13 |
| Col29  | 49 | 0.00  | 1.13 |
| Col29  | 50 | 0.00  | 1.13 |
| Col29  | 51 | 0.70  | 1.13 |
| Col29  | 52 | 0.00  | 1.13 |
| Col130 | 1  | 0.00  | 1.12 |
| Col130 | 2  | 0.00  | 1.12 |
| Col130 | 3  | 0.00  | 1.12 |
| Col130 | 4  | 0.00  | 1.12 |
| Col130 | 5  | 0.00  | 1.12 |
| Col130 | 6  | 0.00  | 1.12 |
| Col130 | 7  | 0.00  | 1.12 |
| Col130 | 8  | -0.81 | 1.12 |
| Col130 | 9  | -0.81 | 1.12 |
| Col130 | 10 | 0.89  | 1.12 |
| Col130 | 11 | 0.89  | 1.12 |
| Col130 | 12 | 0.89  | 1.12 |
| Col130 | 13 | 0.89  | 1.12 |
| Col130 | 14 | 0.89  | 1.12 |
| Col130 | 15 | 0.89  | 1.12 |
| Col130 | 16 | 0.67  | 1.12 |
| Col130 | 17 | 0.67  | 1.12 |
| Col130 | 18 | 0.67  | 1.12 |
| Col130 | 19 | 0.67  | 1.12 |
| Col130 | 20 | 0.67  | 1.12 |
| Col130 | 21 | 0.67  | 1.12 |
| Col130 | 22 | 0.67  | 1.12 |
| Col130 | 23 | 0.67  | 1.12 |
| Col130 | 24 | 0.67  | 1.12 |
| Col130 | 25 | 0.67  | 1.12 |

|        |    |       |      |
|--------|----|-------|------|
| Col130 | 26 | 0.67  | 1.12 |
| Col130 | 27 | 0.67  | 1.12 |
| Col130 | 28 | -0.81 | 1.12 |
| Col130 | 29 | -0.81 | 1.12 |
| Col130 | 30 | 0.89  | 1.12 |
| Col130 | 31 | 0.89  | 1.12 |
| Col130 | 32 | 0.89  | 1.12 |
| Col130 | 33 | 0.89  | 1.12 |
| Col130 | 34 | 0.89  | 1.12 |
| Col130 | 35 | 0.89  | 1.12 |
| Col130 | 36 | 0.00  | 1.12 |
| Col130 | 37 | 0.00  | 1.12 |
| Col130 | 38 | 0.00  | 1.12 |
| Col130 | 39 | 0.00  | 1.12 |
| Col130 | 40 | 0.00  | 1.12 |
| Col130 | 41 | 0.00  | 1.12 |
| Col130 | 42 | 0.00  | 1.12 |
| Col130 | 43 | 0.00  | 1.12 |
| Col130 | 44 | 0.00  | 1.12 |
| Col130 | 45 | 0.00  | 1.12 |
| Col130 | 46 | 0.00  | 1.12 |
| Col130 | 47 | 0.40  | 1.12 |
| Col130 | 48 | 0.40  | 1.12 |
| Col130 | 49 | 0.00  | 1.12 |
| Col130 | 50 | 0.00  | 1.12 |
| Col130 | 51 | 0.67  | 1.12 |
| Col130 | 52 | 0.00  | 1.12 |
| Col131 | 1  | 0.00  | 1.10 |
| Col131 | 2  | 0.00  | 1.10 |
| Col131 | 3  | 0.00  | 1.10 |
| Col131 | 4  | 0.00  | 1.10 |
| Col131 | 5  | 0.00  | 1.10 |
| Col131 | 6  | 0.00  | 1.10 |
| Col131 | 7  | 0.00  | 1.10 |
| Col131 | 8  | -0.77 | 1.10 |
| Col131 | 9  | -0.77 | 1.10 |
| Col131 | 10 | 0.84  | 1.10 |
| Col131 | 11 | 0.84  | 1.10 |
| Col131 | 12 | 0.84  | 1.10 |
| Col131 | 13 | 0.84  | 1.10 |
| Col131 | 14 | 0.84  | 1.10 |
| Col131 | 15 | 0.84  | 1.10 |
| Col131 | 16 | 0.63  | 1.10 |
| Col131 | 17 | 0.63  | 1.10 |
| Col131 | 18 | 0.63  | 1.10 |
| Col131 | 19 | 0.63  | 1.10 |
| Col131 | 20 | 0.63  | 1.10 |
| Col131 | 21 | 0.63  | 1.10 |
| Col131 | 22 | 0.63  | 1.10 |
| Col131 | 23 | 0.63  | 1.10 |
| Col131 | 24 | 0.63  | 1.10 |
| Col131 | 25 | 0.63  | 1.10 |
| Col131 | 26 | 0.63  | 1.10 |
| Col131 | 27 | 0.63  | 1.10 |
| Col131 | 28 | -0.77 | 1.10 |
| Col131 | 29 | -0.77 | 1.10 |
| Col131 | 30 | 0.84  | 1.10 |
| Col131 | 31 | 0.84  | 1.10 |
| Col131 | 32 | 0.84  | 1.10 |
| Col131 | 33 | 0.84  | 1.10 |
| Col131 | 34 | 0.84  | 1.10 |
| Col131 | 35 | 0.84  | 1.10 |
| Col131 | 36 | 0.00  | 1.10 |
| Col131 | 37 | 0.00  | 1.10 |
| Col131 | 38 | 0.00  | 1.10 |

|        |    |       |      |
|--------|----|-------|------|
| Col131 | 39 | 0.00  | 1.10 |
| Col131 | 40 | 0.00  | 1.10 |
| Col131 | 41 | 0.00  | 1.10 |
| Col131 | 42 | 0.00  | 1.10 |
| Col131 | 43 | 0.00  | 1.10 |
| Col131 | 44 | 0.00  | 1.10 |
| Col131 | 45 | 0.00  | 1.10 |
| Col131 | 46 | 0.00  | 1.10 |
| Col131 | 47 | 0.38  | 1.10 |
| Col131 | 48 | 0.38  | 1.10 |
| Col131 | 49 | 0.00  | 1.10 |
| Col131 | 50 | 0.00  | 1.10 |
| Col131 | 51 | 0.63  | 1.10 |
| Col131 | 52 | 0.00  | 1.10 |
| Col132 | 1  | 0.00  | 1.09 |
| Col132 | 2  | 0.00  | 1.09 |
| Col132 | 3  | 0.00  | 1.09 |
| Col132 | 4  | 0.00  | 1.09 |
| Col132 | 5  | 0.00  | 1.09 |
| Col132 | 6  | 0.00  | 1.09 |
| Col132 | 7  | 0.00  | 1.09 |
| Col132 | 8  | -0.73 | 1.09 |
| Col132 | 9  | -0.73 | 1.09 |
| Col132 | 10 | 0.85  | 1.09 |
| Col132 | 11 | 0.85  | 1.09 |
| Col132 | 12 | 0.85  | 1.09 |
| Col132 | 13 | 0.85  | 1.09 |
| Col132 | 14 | 0.85  | 1.09 |
| Col132 | 15 | 0.85  | 1.09 |
| Col132 | 16 | 0.64  | 1.09 |
| Col132 | 17 | 0.64  | 1.09 |
| Col132 | 18 | 0.64  | 1.09 |
| Col132 | 19 | 0.64  | 1.09 |
| Col132 | 20 | 0.64  | 1.09 |
| Col132 | 21 | 0.64  | 1.09 |
| Col132 | 22 | 0.64  | 1.09 |
| Col132 | 23 | 0.64  | 1.09 |
| Col132 | 24 | 0.64  | 1.09 |
| Col132 | 25 | 0.64  | 1.09 |
| Col132 | 26 | 0.64  | 1.09 |
| Col132 | 27 | 0.64  | 1.09 |
| Col132 | 28 | -0.73 | 1.09 |
| Col132 | 29 | -0.73 | 1.09 |
| Col132 | 30 | 0.85  | 1.09 |
| Col132 | 31 | 0.85  | 1.09 |
| Col132 | 32 | 0.85  | 1.09 |
| Col132 | 33 | 0.85  | 1.09 |
| Col132 | 34 | 0.85  | 1.09 |
| Col132 | 35 | 0.85  | 1.09 |
| Col132 | 36 | 0.00  | 1.09 |
| Col132 | 37 | 0.00  | 1.09 |
| Col132 | 38 | 0.00  | 1.09 |
| Col132 | 39 | 0.00  | 1.09 |
| Col132 | 40 | 0.00  | 1.09 |
| Col132 | 41 | 0.00  | 1.09 |
| Col132 | 42 | 0.00  | 1.09 |
| Col132 | 43 | 0.00  | 1.09 |
| Col132 | 44 | 0.00  | 1.09 |
| Col132 | 45 | 0.00  | 1.09 |
| Col132 | 46 | 0.00  | 1.09 |
| Col132 | 47 | 0.38  | 1.09 |
| Col132 | 48 | 0.38  | 1.09 |
| Col132 | 49 | 0.00  | 1.09 |
| Col132 | 50 | 0.00  | 1.09 |
| Col132 | 51 | 0.64  | 1.09 |

Col32      52      0.00      1.09

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id    | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|-------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|       |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col21 | 16.1          | 4.1            | 4.1   | 84           | 66    | 0.00                             | 0.00 |
| Col22 | 16.3          | 4.3            | 4.3   | 85           | 70    | 0.00                             | 0.00 |
| Col23 | 16.5          | 4.5            | 4.5   | 86           | 73    | 0.00                             | 0.00 |
| Col24 | 16.8          | 4.8            | 4.8   | 87           | 77    | 0.00                             | 0.00 |
| Col25 | 17.0          | 5.0            | 5.0   | 88           | 80    | 0.00                             | 0.00 |
| Col26 | 17.2          | 5.2            | 5.2   | 89           | 83    | 0.00                             | 0.00 |
| Col27 | 0.1           | 5.3            | 5.3   | 1            | 85    | 0.00                             | 0.00 |
| Col28 | 17.2          | 5.2            | 5.2   | 89           | 83    | 0.00                             | 0.00 |
| Col29 | 17.0          | 5.0            | 5.0   | 88           | 80    | 0.00                             | 0.00 |
| Col30 | 16.7          | 4.7            | 4.7   | 87           | 77    | 0.00                             | 0.00 |
| Col31 | 16.5          | 4.5            | 4.5   | 86           | 73    | 0.00                             | 0.00 |
| Col32 | 16.3          | 4.3            | 4.3   | 85           | 70    | 0.00                             | 0.00 |

GIRT LAYOUT:

| Bay Id | Girt Id | Locate | Part   | Design Length | Available Reduction Factor |      |
|--------|---------|--------|--------|---------------|----------------------------|------|
|        |         |        |        |               | Out                        | In   |
| 1      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 2      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 3      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 4      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 5      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 6      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 7      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 8      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 9      | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 10     | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 11     | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 12     | 1       | 4.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 13     | 1       | 4.000  | 6X2C16 | 4.625         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 4.625         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 4.625         | 0.00                       | 0.70 |

GIRT ACTIONS:

| Bay Id | Girt Id | Load | -Shear(k) - |       | Moment(f-k) |       | Max UC | Deflect(in) |       |
|--------|---------|------|-------------|-------|-------------|-------|--------|-------------|-------|
|        |         |      | Calc        | Limit | Calc        | Limit |        | Calc        | Limit |
| 1      | 1       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.11        | 3.32  | 0.12        | 2.65  | 0.05   | 0.00        | 0.60  |
| 2      | 1       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.12        | 2.65  | 0.04   | 0.00        | 0.60  |
| 3      | 1       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.10       | 3.32  | -0.11       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.12        | 2.65  | 0.04   | 0.00        | 0.60  |
| 4      | 1       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |

|    |   |    |       |      |       |      |      |      |      |
|----|---|----|-------|------|-------|------|------|------|------|
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.12  | 2.65 | 0.05 | 0.00 | 0.60 |
| 5  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.12  | 2.65 | 0.05 | 0.00 | 0.60 |
| 6  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.12 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.60 |
| 7  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.12 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.60 |
| 8  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.12 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.60 |
| 9  | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.60 |
| 10 | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.12  | 2.65 | 0.05 | 0.00 | 0.60 |
| 11 | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.12  | 2.65 | 0.05 | 0.00 | 0.60 |
| 12 | 1 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
|    | 3 | WP | -0.09 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|    |   | WS | 0.11  | 3.32 | 0.12  | 2.65 | 0.04 | 0.00 | 0.60 |
| 13 | 1 | WP | -0.09 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.62 |
|    |   | WS | 0.11  | 3.32 | 0.13  | 2.65 | 0.05 | 0.00 | 0.62 |

WP - Wind\_Pressure

WS - Wind\_Suction

## PANEL DATA:

| Bay | Part    | Type | Gage  | Yield |
|-----|---------|------|-------|-------|
| 7   | CUSPANL | CP   | 20.00 | 50.0  |

## MOMENTS &amp; DEFLECTION:

| Span<br>Id | Locate (ft) |       | Load | -----Moment (ft-lb/ft)----- |                       |                   |           |       |       | Deflect (in) |       |      |
|------------|-------------|-------|------|-----------------------------|-----------------------|-------------------|-----------|-------|-------|--------------|-------|------|
|            | Start       | End   |      | Start<br>Calc Limit         | Midspan<br>Calc Limit | End<br>Calc Limit | Max<br>UC | Calc  | Limit |              |       |      |
| 1          | 0.00        | 4.00  | WP   | 0.0                         | 38.1                  | -15.1             | 49.1      | 22.1  | 38.1  | 0.58         | -0.15 | 0.80 |
|            |             |       | WS   | 0.0                         | 38.1                  | 20.1              | 38.1      | -29.5 | 49.1  | 0.60         | 0.20  | 0.80 |
| 2          | 4.00        | 8.00  | WP   | 22.1                        | 38.1                  | -8.5              | 49.1      | 11.3  | 38.1  | 0.58         | -0.06 | 0.80 |
|            |             |       | WS   | -29.5                       | 49.1                  | 11.4              | 38.1      | -15.1 | 49.1  | 0.60         | 0.08  | 0.80 |
| 3          | 8.00        | 12.00 | WP   | 11.3                        | 38.1                  | -4.2              | 49.1      | 32.5  | 38.1  | 0.85         | 0.02  | 0.80 |
|            |             |       | WS   | -15.1                       | 49.1                  | 5.6               | 38.1      | -43.2 | 49.1  | 0.88         | -0.02 | 0.80 |
| 4          | 12.00       | 17.22 | WP   | 32.5                        | 38.1                  | -27.9             | 49.1      | 0.0   | 38.1  | 0.85         | -0.50 | 1.04 |
|            |             |       | WS   | -43.2                       | 49.1                  | 37.1              | 38.1      | 0.0   | 38.1  | 0.97         | 0.67  | 1.04 |

WP - Wind\_Pressure  
WS - Wind\_Suction



PANEL:

| Part    | Thick (in) | Yield (ksi ) | Tensile Strength (ksi ) |
|---------|------------|--------------|-------------------------|
| CUSPANL | 0.038      | 50.00        | 65.00                   |

GIRT SCREWS:

| Part | Dia (in) | Washer (in) | Limit (k ) |
|------|----------|-------------|------------|
| #29  | 0.21     | 0.50        | 2.90       |

PANEL ZONE LAYOUT:

| Zone Id | Description | ---Wall (ft)--- |         | Bay Id | --Girt (ft, ft, in)-- |       |           | Panel Span (ft) |
|---------|-------------|-----------------|---------|--------|-----------------------|-------|-----------|-----------------|
|         |             | Offset1         | Offset2 |        | Locate                | Width | Min Thick |                 |
| 1       | Interior    | 6.43            | 58.57   | 7      | 12.00                 | 4.61  | 0.059     | 4.10            |
| 2       | Lt Edge     | 0.00            | 6.43    | 1      | 4.00                  | 4.00  | 0.059     | 4.00            |
| 3       | Rt Edge     | 58.57           | 65.00   | 13     | 12.00                 | 4.05  | 0.059     | 4.10            |

GIRT SCREW CHECK:

| Zone Id | Screw Space | Wind Suction (psf ) | Load (k ) | -----Limit (k )----- |                |               | Max UC |
|---------|-------------|---------------------|-----------|----------------------|----------------|---------------|--------|
|         |             |                     |           | Girt Pullout         | Panel Pullover | Screw Tension |        |
| 1       | 1.00        | 16.62               | 0.08      | 0.22                 | 0.61           | 0.77          | 0.35   |
| 2       | 1.00        | 16.62               | 0.07      | 0.22                 | 0.61           | 0.77          | 0.30   |
| 3       | 1.00        | 16.62               | 0.07      | 0.22                 | 0.61           | 0.77          | 0.31   |

WALL LAYOUT:

| Wall Id | Orn | Load Width |
|---------|-----|------------|
| 4       | L   | 2.50       |

MEMBER LAYOUT:

| Id     | Locate |        | ---Web (in)--- |       | -Flange (in)- |       | Length (ft) | Weight (lb) | ----Max_Load---- |      |         |
|--------|--------|--------|----------------|-------|---------------|-------|-------------|-------------|------------------|------|---------|
|        | (ft)   | Part   | Depth          | Thick | Width         | Thick |             |             | Id               | UC   | Report  |
| Col34  | 0.0    | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.1        | 35.2        | 17               | 0.09 | Mom+Axl |
| Col35  | 14.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.1        | 35.2        | 1                | 0.12 | Mom+Axl |
| Col36  | 42.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.1        | 35.2        | 1                | 0.12 | Mom+Axl |
| Col37  | 56.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.1        | 35.2        | 1                | 0.08 | Mom+Axl |
| Col38  | 70.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.1        | 35.2        | 17               | 0.09 | Mom+Axl |
| Raf4   |        | PB6EC  | 6.13           | 16ga  | 2.06          | 16ga  | 14.0        | 29.4        |                  |      |         |
| Raf5   |        | PB6EC  | 6.13           | 16ga  | 2.06          | 16ga  | 28.0        | 58.8        |                  |      |         |
| Raf6   |        | PB6EC  | 6.13           | 16ga  | 2.06          | 16ga  | 28.0        | 58.8        |                  |      |         |
| Total= |        |        |                |       |               |       |             | 323.1       |                  |      |         |

DESIGN ACTIONS/STRENGTH:

| Id    | Load Id | -Axial (k )- |       | -Shear (k )- |       | Moment (f-k ) |       | -----Unity_Check----- |       |        |        |
|-------|---------|--------------|-------|--------------|-------|---------------|-------|-----------------------|-------|--------|--------|
|       |         | Calc         | Limit | Calc         | Limit | Calc          | Limit | Axial                 | Shear | Moment | Shear+ |
| Col34 | 1       | 0.44         | 7.71  | 0.00         | 3.32  | 0.00          | 2.65  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col34 | 2       | 0.09         | 7.71  | 0.00         | 3.32  | 0.00          | 2.65  | 0.01                  | 0.00  | 0.01   | 0.00   |
| Col34 | 3       | 0.33         | 7.71  | 0.00         | 3.32  | 0.00          | 2.65  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col34 | 4       | 0.33         | 7.71  | 0.00         | 3.32  | 0.00          | 2.65  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col34 | 5       | 0.36         | 7.71  | 0.00         | 3.32  | 0.00          | 2.65  | 0.05                  | 0.00  | 0.05   | 0.00   |
| Col34 | 6       | 0.27         | 7.71  | 0.00         | 3.32  | 0.00          | 2.65  | 0.03                  | 0.00  | 0.03   | 0.00   |
| Col34 | 7       | 0.27         | 7.71  | 0.00         | 3.32  | 0.00          | 2.65  | 0.03                  | 0.00  | 0.03   | 0.00   |
| Col34 | 8       | -0.14        | 21.18 | 0.04         | 3.32  | -0.16         | 2.65  | 0.01                  | 0.01  | 0.05   | 0.00   |
| Col34 | 9       | -0.05        | 21.18 | 0.04         | 3.32  | -0.16         | 2.65  | 0.00                  | 0.01  | 0.06   | 0.00   |
| Col34 | 10      | -0.14        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |
| Col34 | 11      | -0.05        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col34 | 12      | -0.14        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |
| Col34 | 13      | -0.05        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col34 | 14      | -0.07        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col34 | 15      | 0.02         | 7.71  | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.08   | 0.00   |
| Col34 | 16      | 0.24         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.03                  | 0.01  | 0.09   | 0.00   |
| Col34 | 17      | 0.31         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.04                  | 0.01  | 0.09   | 0.00   |
| Col34 | 18      | 0.18         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.08   | 0.00   |
| Col34 | 19      | 0.26         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.03                  | 0.01  | 0.09   | 0.00   |
| Col34 | 20      | 0.15         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.07   | 0.00   |
| Col34 | 21      | 0.22         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.03                  | 0.01  | 0.08   | 0.00   |
| Col34 | 22      | 0.10         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |
| Col34 | 23      | 0.17         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.08   | 0.00   |
| Col34 | 24      | 0.15         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.07   | 0.00   |
| Col34 | 25      | 0.22         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.03                  | 0.01  | 0.08   | 0.00   |
| Col34 | 26      | 0.10         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |
| Col34 | 27      | 0.17         | 7.71  | -0.04        | 3.32  | 0.14          | 2.65  | 0.02                  | 0.01  | 0.08   | 0.00   |
| Col34 | 28      | -0.16        | 21.18 | 0.04         | 3.32  | -0.16         | 2.65  | 0.01                  | 0.01  | 0.05   | 0.00   |
| Col34 | 29      | -0.06        | 21.18 | 0.04         | 3.32  | -0.16         | 2.65  | 0.00                  | 0.01  | 0.06   | 0.00   |
| Col34 | 30      | -0.16        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |
| Col34 | 31      | -0.06        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col34 | 32      | -0.16        | 21.18 | -0.05        | 3.32  | 0.19          | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |

|        |    |       |       |       |      |      |      |      |      |      |      |
|--------|----|-------|-------|-------|------|------|------|------|------|------|------|
| Col134 | 33 | -0.06 | 21.18 | -0.05 | 3.32 | 0.19 | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col134 | 34 | -0.09 | 21.18 | -0.05 | 3.32 | 0.19 | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col134 | 35 | 0.01  | 7.71  | -0.05 | 3.32 | 0.19 | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col134 | 36 | 0.09  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 37 | 0.09  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 38 | 0.36  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col134 | 39 | 0.36  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col134 | 40 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col134 | 41 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col134 | 42 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col134 | 43 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col134 | 44 | 0.07  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 45 | 0.07  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 46 | 0.37  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col134 | 47 | 0.19  | 7.71  | -0.04 | 3.32 | 0.14 | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col134 | 48 | 0.26  | 7.71  | -0.04 | 3.32 | 0.14 | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col134 | 49 | 0.09  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 50 | 0.09  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 51 | 0.07  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 52 | 0.07  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 53 | 0.33  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col134 | 54 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col134 | 55 | 0.27  | 7.71  | -0.04 | 3.32 | 0.14 | 2.65 | 0.04 | 0.01 | 0.09 | 0.00 |
| Col134 | 56 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col135 | 1  | 1.26  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col135 | 2  | 0.21  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col135 | 3  | 0.91  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col135 | 4  | 0.91  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col135 | 5  | 1.00  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col135 | 6  | 0.74  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col135 | 7  | 0.74  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col135 | 8  | -0.51 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col135 | 9  | -0.21 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col135 | 10 | -0.51 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col135 | 11 | -0.21 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col135 | 12 | -0.51 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col135 | 13 | -0.21 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col135 | 14 | -0.29 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col135 | 15 | 0.00  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col135 | 16 | 0.64  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col135 | 17 | 0.86  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col135 | 18 | 0.48  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col135 | 19 | 0.70  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col135 | 20 | 0.38  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col135 | 21 | 0.60  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col135 | 22 | 0.22  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col135 | 23 | 0.44  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col135 | 24 | 0.38  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col135 | 25 | 0.60  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col135 | 26 | 0.22  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col135 | 27 | 0.44  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col135 | 28 | -0.55 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col135 | 29 | -0.26 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col135 | 30 | -0.55 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col135 | 31 | -0.26 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col135 | 32 | -0.55 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col135 | 33 | -0.26 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col135 | 34 | -0.33 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col135 | 35 | -0.04 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col135 | 36 | 0.21  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col135 | 37 | 0.21  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col135 | 38 | 1.00  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col135 | 39 | 1.00  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col135 | 40 | 0.74  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col135 | 41 | 0.74  | 10.37 | 0.00  | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |



|        |    |       |       |      |      |      |      |      |      |      |      |
|--------|----|-------|-------|------|------|------|------|------|------|------|------|
| Col136 | 51 | 0.14  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col136 | 52 | 0.14  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col136 | 53 | 0.92  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col136 | 54 | 0.74  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col136 | 55 | 0.74  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col136 | 56 | 0.74  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col137 | 1  | 0.85  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col137 | 2  | 0.15  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 3  | 0.62  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col137 | 4  | 0.62  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col137 | 5  | 0.68  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col137 | 6  | 0.50  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 7  | 0.50  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 8  | -0.33 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 9  | -0.13 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 10 | -0.33 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 11 | -0.13 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 12 | -0.33 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 13 | -0.13 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 14 | -0.18 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 15 | 0.01  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 16 | 0.44  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col137 | 17 | 0.59  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col137 | 18 | 0.33  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col137 | 19 | 0.48  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 20 | 0.27  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col137 | 21 | 0.41  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col137 | 22 | 0.16  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 23 | 0.30  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col137 | 24 | 0.27  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col137 | 25 | 0.41  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col137 | 26 | 0.16  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 27 | 0.30  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col137 | 28 | -0.35 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 29 | -0.16 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 30 | -0.35 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 31 | -0.16 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 32 | -0.35 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 33 | -0.16 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 34 | -0.21 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 35 | -0.01 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 36 | 0.15  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 37 | 0.15  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 38 | 0.68  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col137 | 39 | 0.68  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col137 | 40 | 0.51  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 41 | 0.51  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 42 | 0.51  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 43 | 0.51  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 44 | 0.10  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 45 | 0.10  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 46 | 0.71  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col137 | 47 | 0.34  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col137 | 48 | 0.48  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 49 | 0.15  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 50 | 0.15  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 51 | 0.11  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 52 | 0.11  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 53 | 0.62  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col137 | 54 | 0.50  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 55 | 0.50  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col137 | 56 | 0.51  | 10.37 | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col138 | 1  | 0.44  | 7.71  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col138 | 2  | 0.09  | 7.71  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col138 | 3  | 0.33  | 7.71  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col38 | 4  | 0.33  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col38 | 5  | 0.36  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col38 | 6  | 0.27  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col38 | 7  | 0.27  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col38 | 8  | -0.14 | 21.18 | 0.04  | 3.32 | -0.16 | 2.65 | 0.01 | 0.01 | 0.05 | 0.00 |
| Col38 | 9  | -0.05 | 21.18 | 0.04  | 3.32 | -0.16 | 2.65 | 0.00 | 0.01 | 0.06 | 0.00 |
| Col38 | 10 | -0.14 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col38 | 11 | -0.05 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col38 | 12 | -0.14 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col38 | 13 | -0.05 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col38 | 14 | -0.07 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col38 | 15 | 0.02  | 7.71  | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.08 | 0.00 |
| Col38 | 16 | 0.24  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col38 | 17 | 0.31  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.04 | 0.01 | 0.09 | 0.00 |
| Col38 | 18 | 0.18  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col38 | 19 | 0.26  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col38 | 20 | 0.15  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.07 | 0.00 |
| Col38 | 21 | 0.22  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.08 | 0.00 |
| Col38 | 22 | 0.10  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col38 | 23 | 0.17  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col38 | 24 | 0.15  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.07 | 0.00 |
| Col38 | 25 | 0.22  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.08 | 0.00 |
| Col38 | 26 | 0.10  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col38 | 27 | 0.17  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col38 | 28 | -0.16 | 21.18 | 0.04  | 3.32 | -0.16 | 2.65 | 0.01 | 0.01 | 0.05 | 0.00 |
| Col38 | 29 | -0.06 | 21.18 | 0.04  | 3.32 | -0.16 | 2.65 | 0.00 | 0.01 | 0.06 | 0.00 |
| Col38 | 30 | -0.16 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col38 | 31 | -0.06 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col38 | 32 | -0.16 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col38 | 33 | -0.06 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col38 | 34 | -0.09 | 21.18 | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col38 | 35 | 0.01  | 7.71  | -0.05 | 3.32 | 0.19  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col38 | 36 | 0.09  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col38 | 37 | 0.09  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col38 | 38 | 0.36  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col38 | 39 | 0.36  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col38 | 40 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col38 | 41 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col38 | 42 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col38 | 43 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col38 | 44 | 0.07  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col38 | 45 | 0.07  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col38 | 46 | 0.37  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col38 | 47 | 0.19  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col38 | 48 | 0.26  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col38 | 49 | 0.09  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col38 | 50 | 0.09  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col38 | 51 | 0.07  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col38 | 52 | 0.07  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col38 | 53 | 0.33  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col38 | 54 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col38 | 55 | 0.27  | 7.71  | -0.04 | 3.32 | 0.14  | 2.65 | 0.04 | 0.01 | 0.09 | 0.00 |
| Col38 | 56 | 0.27  | 7.71  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |

|      |    |      |      |      |      |      |      |      |      |      |      |
|------|----|------|------|------|------|------|------|------|------|------|------|
| Raf4 | 1  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 2  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 3  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 4  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 5  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 6  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 7  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 8  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 9  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 10 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf4 | 11 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |







|      |    |      |      |      |      |      |      |      |      |      |      |
|------|----|------|------|------|------|------|------|------|------|------|------|
| Raf6 | 30 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 31 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 32 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 33 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 34 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 35 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 36 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 37 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 38 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 39 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 40 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 41 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 42 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 43 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 44 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 45 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 46 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 47 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 48 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 49 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 50 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 51 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 52 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 53 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 54 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 55 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf6 | 56 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |

COLUMN REACTIONS:

| Id     | Load |          | In_Plane<br>Horz(k ) | Out_Plane<br>Horz(k ) |
|--------|------|----------|----------------------|-----------------------|
|        | Id   | Vert(k ) |                      |                       |
| Col134 | 1    | 0.44     | 0.00                 | 0.00                  |
| Col134 | 2    | 0.09     | 0.00                 | 0.00                  |
| Col134 | 3    | 0.33     | 0.00                 | 0.00                  |
| Col134 | 4    | 0.33     | 0.00                 | 0.00                  |
| Col134 | 5    | 0.36     | 0.00                 | 0.00                  |
| Col134 | 6    | 0.27     | 0.00                 | 0.00                  |
| Col134 | 7    | 0.27     | 0.00                 | 0.00                  |
| Col134 | 8    | -0.14    | 0.00                 | -0.04                 |
| Col134 | 9    | -0.05    | 0.00                 | -0.04                 |
| Col134 | 10   | -0.14    | 0.00                 | 0.05                  |
| Col134 | 11   | -0.05    | 0.00                 | 0.05                  |
| Col134 | 12   | -0.14    | 0.00                 | 0.05                  |
| Col134 | 13   | -0.05    | 0.00                 | 0.05                  |
| Col134 | 14   | -0.07    | 0.00                 | 0.05                  |
| Col134 | 15   | 0.02     | 0.00                 | 0.05                  |
| Col134 | 16   | 0.24     | 0.00                 | 0.04                  |
| Col134 | 17   | 0.31     | 0.00                 | 0.04                  |
| Col134 | 18   | 0.18     | 0.00                 | 0.04                  |
| Col134 | 19   | 0.26     | 0.00                 | 0.04                  |
| Col134 | 20   | 0.15     | 0.00                 | 0.04                  |
| Col134 | 21   | 0.22     | 0.00                 | 0.04                  |
| Col134 | 22   | 0.10     | 0.00                 | 0.04                  |
| Col134 | 23   | 0.17     | 0.00                 | 0.04                  |
| Col134 | 24   | 0.15     | 0.00                 | 0.04                  |
| Col134 | 25   | 0.22     | 0.00                 | 0.04                  |
| Col134 | 26   | 0.10     | 0.00                 | 0.04                  |
| Col134 | 27   | 0.17     | 0.00                 | 0.04                  |
| Col134 | 28   | -0.16    | 0.00                 | -0.04                 |
| Col134 | 29   | -0.06    | 0.00                 | -0.04                 |
| Col134 | 30   | -0.16    | 0.00                 | 0.05                  |
| Col134 | 31   | -0.06    | 0.00                 | 0.05                  |
| Col134 | 32   | -0.16    | 0.00                 | 0.05                  |

|        |    |       |      |      |
|--------|----|-------|------|------|
| Col134 | 33 | -0.06 | 0.00 | 0.05 |
| Col134 | 34 | -0.09 | 0.00 | 0.05 |
| Col134 | 35 | 0.01  | 0.00 | 0.05 |
| Col134 | 36 | 0.09  | 0.00 | 0.00 |
| Col134 | 37 | 0.09  | 0.00 | 0.00 |
| Col134 | 38 | 0.36  | 0.00 | 0.00 |
| Col134 | 39 | 0.36  | 0.00 | 0.00 |
| Col134 | 40 | 0.27  | 0.00 | 0.00 |
| Col134 | 41 | 0.27  | 0.00 | 0.00 |
| Col134 | 42 | 0.27  | 0.00 | 0.00 |
| Col134 | 43 | 0.27  | 0.00 | 0.00 |
| Col134 | 44 | 0.07  | 0.00 | 0.00 |
| Col134 | 45 | 0.07  | 0.00 | 0.00 |
| Col134 | 46 | 0.37  | 0.00 | 0.00 |
| Col134 | 47 | 0.19  | 0.00 | 0.04 |
| Col134 | 48 | 0.26  | 0.00 | 0.04 |
| Col134 | 49 | 0.09  | 0.00 | 0.00 |
| Col134 | 50 | 0.09  | 0.00 | 0.00 |
| Col134 | 51 | 0.07  | 0.00 | 0.00 |
| Col134 | 52 | 0.07  | 0.00 | 0.00 |
| Col134 | 53 | 0.33  | 0.00 | 0.00 |
| Col134 | 54 | 0.27  | 0.00 | 0.00 |
| Col134 | 55 | 0.27  | 0.00 | 0.04 |
| Col134 | 56 | 0.27  | 0.00 | 0.00 |
| Col135 | 1  | 1.26  | 0.00 | 0.00 |
| Col135 | 2  | 0.21  | 0.00 | 0.00 |
| Col135 | 3  | 0.91  | 0.00 | 0.00 |
| Col135 | 4  | 0.91  | 0.00 | 0.00 |
| Col135 | 5  | 1.00  | 0.00 | 0.00 |
| Col135 | 6  | 0.74  | 0.00 | 0.00 |
| Col135 | 7  | 0.74  | 0.00 | 0.00 |
| Col135 | 8  | -0.51 | 0.00 | 0.00 |
| Col135 | 9  | -0.21 | 0.00 | 0.00 |
| Col135 | 10 | -0.51 | 0.00 | 0.00 |
| Col135 | 11 | -0.21 | 0.00 | 0.00 |
| Col135 | 12 | -0.51 | 0.00 | 0.00 |
| Col135 | 13 | -0.21 | 0.00 | 0.00 |
| Col135 | 14 | -0.29 | 0.00 | 0.00 |
| Col135 | 15 | 0.00  | 0.00 | 0.00 |
| Col135 | 16 | 0.64  | 0.00 | 0.00 |
| Col135 | 17 | 0.86  | 0.00 | 0.00 |
| Col135 | 18 | 0.48  | 0.00 | 0.00 |
| Col135 | 19 | 0.70  | 0.00 | 0.00 |
| Col135 | 20 | 0.38  | 0.00 | 0.00 |
| Col135 | 21 | 0.60  | 0.00 | 0.00 |
| Col135 | 22 | 0.22  | 0.00 | 0.00 |
| Col135 | 23 | 0.44  | 0.00 | 0.00 |
| Col135 | 24 | 0.38  | 0.00 | 0.00 |
| Col135 | 25 | 0.60  | 0.00 | 0.00 |
| Col135 | 26 | 0.22  | 0.00 | 0.00 |
| Col135 | 27 | 0.44  | 0.00 | 0.00 |
| Col135 | 28 | -0.55 | 0.00 | 0.00 |
| Col135 | 29 | -0.26 | 0.00 | 0.00 |
| Col135 | 30 | -0.55 | 0.00 | 0.00 |
| Col135 | 31 | -0.26 | 0.00 | 0.00 |
| Col135 | 32 | -0.55 | 0.00 | 0.00 |
| Col135 | 33 | -0.26 | 0.00 | 0.00 |
| Col135 | 34 | -0.33 | 0.00 | 0.00 |
| Col135 | 35 | -0.04 | 0.00 | 0.00 |
| Col135 | 36 | 0.21  | 0.00 | 0.00 |
| Col135 | 37 | 0.21  | 0.00 | 0.00 |
| Col135 | 38 | 1.00  | 0.00 | 0.00 |
| Col135 | 39 | 1.00  | 0.00 | 0.00 |
| Col135 | 40 | 0.74  | 0.00 | 0.00 |
| Col135 | 41 | 0.74  | 0.00 | 0.00 |

|        |    |       |      |      |
|--------|----|-------|------|------|
| Col135 | 42 | 0.74  | 0.00 | 0.00 |
| Col135 | 43 | 0.74  | 0.00 | 0.00 |
| Col135 | 44 | 0.14  | 0.00 | 0.00 |
| Col135 | 45 | 0.14  | 0.00 | 0.00 |
| Col135 | 46 | 1.05  | 0.00 | 0.00 |
| Col135 | 47 | 0.49  | 0.00 | 0.00 |
| Col135 | 48 | 0.70  | 0.00 | 0.00 |
| Col135 | 49 | 0.21  | 0.00 | 0.00 |
| Col135 | 50 | 0.21  | 0.00 | 0.00 |
| Col135 | 51 | 0.14  | 0.00 | 0.00 |
| Col135 | 52 | 0.14  | 0.00 | 0.00 |
| Col135 | 53 | 0.92  | 0.00 | 0.00 |
| Col135 | 54 | 0.74  | 0.00 | 0.00 |
| Col135 | 55 | 0.74  | 0.00 | 0.00 |
| Col135 | 56 | 0.74  | 0.00 | 0.00 |
| Col136 | 1  | 1.26  | 0.00 | 0.00 |
| Col136 | 2  | 0.21  | 0.00 | 0.00 |
| Col136 | 3  | 0.91  | 0.00 | 0.00 |
| Col136 | 4  | 0.91  | 0.00 | 0.00 |
| Col136 | 5  | 1.00  | 0.00 | 0.00 |
| Col136 | 6  | 0.74  | 0.00 | 0.00 |
| Col136 | 7  | 0.74  | 0.00 | 0.00 |
| Col136 | 8  | -0.51 | 0.00 | 0.00 |
| Col136 | 9  | -0.21 | 0.00 | 0.00 |
| Col136 | 10 | -0.51 | 0.00 | 0.00 |
| Col136 | 11 | -0.21 | 0.00 | 0.00 |
| Col136 | 12 | -0.51 | 0.00 | 0.00 |
| Col136 | 13 | -0.21 | 0.00 | 0.00 |
| Col136 | 14 | -0.29 | 0.00 | 0.00 |
| Col136 | 15 | 0.00  | 0.00 | 0.00 |
| Col136 | 16 | 0.64  | 0.00 | 0.00 |
| Col136 | 17 | 0.86  | 0.00 | 0.00 |
| Col136 | 18 | 0.48  | 0.00 | 0.00 |
| Col136 | 19 | 0.70  | 0.00 | 0.00 |
| Col136 | 20 | 0.38  | 0.00 | 0.00 |
| Col136 | 21 | 0.60  | 0.00 | 0.00 |
| Col136 | 22 | 0.22  | 0.00 | 0.00 |
| Col136 | 23 | 0.44  | 0.00 | 0.00 |
| Col136 | 24 | 0.38  | 0.00 | 0.00 |
| Col136 | 25 | 0.60  | 0.00 | 0.00 |
| Col136 | 26 | 0.22  | 0.00 | 0.00 |
| Col136 | 27 | 0.44  | 0.00 | 0.00 |
| Col136 | 28 | -0.55 | 0.00 | 0.00 |
| Col136 | 29 | -0.26 | 0.00 | 0.00 |
| Col136 | 30 | -0.55 | 0.00 | 0.00 |
| Col136 | 31 | -0.26 | 0.00 | 0.00 |
| Col136 | 32 | -0.55 | 0.00 | 0.00 |
| Col136 | 33 | -0.26 | 0.00 | 0.00 |
| Col136 | 34 | -0.33 | 0.00 | 0.00 |
| Col136 | 35 | -0.04 | 0.00 | 0.00 |
| Col136 | 36 | 0.21  | 0.00 | 0.00 |
| Col136 | 37 | 0.21  | 0.00 | 0.00 |
| Col136 | 38 | 1.00  | 0.00 | 0.00 |
| Col136 | 39 | 1.00  | 0.00 | 0.00 |
| Col136 | 40 | 0.74  | 0.00 | 0.00 |
| Col136 | 41 | 0.74  | 0.00 | 0.00 |
| Col136 | 42 | 0.74  | 0.00 | 0.00 |
| Col136 | 43 | 0.74  | 0.00 | 0.00 |
| Col136 | 44 | 0.14  | 0.00 | 0.00 |
| Col136 | 45 | 0.14  | 0.00 | 0.00 |
| Col136 | 46 | 1.05  | 0.00 | 0.00 |
| Col136 | 47 | 0.49  | 0.00 | 0.00 |
| Col136 | 48 | 0.70  | 0.00 | 0.00 |
| Col136 | 49 | 0.21  | 0.00 | 0.00 |
| Col136 | 50 | 0.21  | 0.00 | 0.00 |

|        |    |       |      |      |
|--------|----|-------|------|------|
| Col136 | 51 | 0.14  | 0.00 | 0.00 |
| Col136 | 52 | 0.14  | 0.00 | 0.00 |
| Col136 | 53 | 0.92  | 0.00 | 0.00 |
| Col136 | 54 | 0.74  | 0.00 | 0.00 |
| Col136 | 55 | 0.74  | 0.00 | 0.00 |
| Col136 | 56 | 0.74  | 0.00 | 0.00 |
| Col137 | 1  | 0.85  | 0.00 | 0.00 |
| Col137 | 2  | 0.15  | 0.00 | 0.00 |
| Col137 | 3  | 0.62  | 0.00 | 0.00 |
| Col137 | 4  | 0.62  | 0.00 | 0.00 |
| Col137 | 5  | 0.68  | 0.00 | 0.00 |
| Col137 | 6  | 0.50  | 0.00 | 0.00 |
| Col137 | 7  | 0.50  | 0.00 | 0.00 |
| Col137 | 8  | -0.33 | 0.00 | 0.00 |
| Col137 | 9  | -0.13 | 0.00 | 0.00 |
| Col137 | 10 | -0.33 | 0.00 | 0.00 |
| Col137 | 11 | -0.13 | 0.00 | 0.00 |
| Col137 | 12 | -0.33 | 0.00 | 0.00 |
| Col137 | 13 | -0.13 | 0.00 | 0.00 |
| Col137 | 14 | -0.18 | 0.00 | 0.00 |
| Col137 | 15 | 0.01  | 0.00 | 0.00 |
| Col137 | 16 | 0.44  | 0.00 | 0.00 |
| Col137 | 17 | 0.59  | 0.00 | 0.00 |
| Col137 | 18 | 0.33  | 0.00 | 0.00 |
| Col137 | 19 | 0.48  | 0.00 | 0.00 |
| Col137 | 20 | 0.27  | 0.00 | 0.00 |
| Col137 | 21 | 0.41  | 0.00 | 0.00 |
| Col137 | 22 | 0.16  | 0.00 | 0.00 |
| Col137 | 23 | 0.30  | 0.00 | 0.00 |
| Col137 | 24 | 0.27  | 0.00 | 0.00 |
| Col137 | 25 | 0.41  | 0.00 | 0.00 |
| Col137 | 26 | 0.16  | 0.00 | 0.00 |
| Col137 | 27 | 0.30  | 0.00 | 0.00 |
| Col137 | 28 | -0.35 | 0.00 | 0.00 |
| Col137 | 29 | -0.16 | 0.00 | 0.00 |
| Col137 | 30 | -0.35 | 0.00 | 0.00 |
| Col137 | 31 | -0.16 | 0.00 | 0.00 |
| Col137 | 32 | -0.35 | 0.00 | 0.00 |
| Col137 | 33 | -0.16 | 0.00 | 0.00 |
| Col137 | 34 | -0.21 | 0.00 | 0.00 |
| Col137 | 35 | -0.01 | 0.00 | 0.00 |
| Col137 | 36 | 0.15  | 0.00 | 0.00 |
| Col137 | 37 | 0.15  | 0.00 | 0.00 |
| Col137 | 38 | 0.68  | 0.00 | 0.00 |
| Col137 | 39 | 0.68  | 0.00 | 0.00 |
| Col137 | 40 | 0.51  | 0.00 | 0.00 |
| Col137 | 41 | 0.51  | 0.00 | 0.00 |
| Col137 | 42 | 0.51  | 0.00 | 0.00 |
| Col137 | 43 | 0.51  | 0.00 | 0.00 |
| Col137 | 44 | 0.10  | 0.00 | 0.00 |
| Col137 | 45 | 0.10  | 0.00 | 0.00 |
| Col137 | 46 | 0.71  | 0.00 | 0.00 |
| Col137 | 47 | 0.34  | 0.00 | 0.00 |
| Col137 | 48 | 0.48  | 0.00 | 0.00 |
| Col137 | 49 | 0.15  | 0.00 | 0.00 |
| Col137 | 50 | 0.15  | 0.00 | 0.00 |
| Col137 | 51 | 0.11  | 0.00 | 0.00 |
| Col137 | 52 | 0.11  | 0.00 | 0.00 |
| Col137 | 53 | 0.62  | 0.00 | 0.00 |
| Col137 | 54 | 0.50  | 0.00 | 0.00 |
| Col137 | 55 | 0.50  | 0.00 | 0.00 |
| Col137 | 56 | 0.51  | 0.00 | 0.00 |
| Col138 | 1  | 0.44  | 0.00 | 0.00 |
| Col138 | 2  | 0.09  | 0.00 | 0.00 |
| Col138 | 3  | 0.33  | 0.00 | 0.00 |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col138 | 4  | 0.33  | 0.00 | 0.00  |
| Col138 | 5  | 0.36  | 0.00 | 0.00  |
| Col138 | 6  | 0.27  | 0.00 | 0.00  |
| Col138 | 7  | 0.27  | 0.00 | 0.00  |
| Col138 | 8  | -0.14 | 0.00 | -0.04 |
| Col138 | 9  | -0.05 | 0.00 | -0.04 |
| Col138 | 10 | -0.14 | 0.00 | 0.05  |
| Col138 | 11 | -0.05 | 0.00 | 0.05  |
| Col138 | 12 | -0.14 | 0.00 | 0.05  |
| Col138 | 13 | -0.05 | 0.00 | 0.05  |
| Col138 | 14 | -0.07 | 0.00 | 0.05  |
| Col138 | 15 | 0.02  | 0.00 | 0.05  |
| Col138 | 16 | 0.24  | 0.00 | 0.04  |
| Col138 | 17 | 0.31  | 0.00 | 0.04  |
| Col138 | 18 | 0.18  | 0.00 | 0.04  |
| Col138 | 19 | 0.26  | 0.00 | 0.04  |
| Col138 | 20 | 0.15  | 0.00 | 0.04  |
| Col138 | 21 | 0.22  | 0.00 | 0.04  |
| Col138 | 22 | 0.10  | 0.00 | 0.04  |
| Col138 | 23 | 0.17  | 0.00 | 0.04  |
| Col138 | 24 | 0.15  | 0.00 | 0.04  |
| Col138 | 25 | 0.22  | 0.00 | 0.04  |
| Col138 | 26 | 0.10  | 0.00 | 0.04  |
| Col138 | 27 | 0.17  | 0.00 | 0.04  |
| Col138 | 28 | -0.16 | 0.00 | -0.04 |
| Col138 | 29 | -0.06 | 0.00 | -0.04 |
| Col138 | 30 | -0.16 | 0.00 | 0.05  |
| Col138 | 31 | -0.06 | 0.00 | 0.05  |
| Col138 | 32 | -0.16 | 0.00 | 0.05  |
| Col138 | 33 | -0.06 | 0.00 | 0.05  |
| Col138 | 34 | -0.09 | 0.00 | 0.05  |
| Col138 | 35 | 0.01  | 0.00 | 0.05  |
| Col138 | 36 | 0.09  | 0.00 | 0.00  |
| Col138 | 37 | 0.09  | 0.00 | 0.00  |
| Col138 | 38 | 0.36  | 0.00 | 0.00  |
| Col138 | 39 | 0.36  | 0.00 | 0.00  |
| Col138 | 40 | 0.27  | 0.00 | 0.00  |
| Col138 | 41 | 0.27  | 0.00 | 0.00  |
| Col138 | 42 | 0.27  | 0.00 | 0.00  |
| Col138 | 43 | 0.27  | 0.00 | 0.00  |
| Col138 | 44 | 0.07  | 0.00 | 0.00  |
| Col138 | 45 | 0.07  | 0.00 | 0.00  |
| Col138 | 46 | 0.37  | 0.00 | 0.00  |
| Col138 | 47 | 0.19  | 0.00 | 0.04  |
| Col138 | 48 | 0.26  | 0.00 | 0.04  |
| Col138 | 49 | 0.09  | 0.00 | 0.00  |
| Col138 | 50 | 0.09  | 0.00 | 0.00  |
| Col138 | 51 | 0.07  | 0.00 | 0.00  |
| Col138 | 52 | 0.07  | 0.00 | 0.00  |
| Col138 | 53 | 0.33  | 0.00 | 0.00  |
| Col138 | 54 | 0.27  | 0.00 | 0.00  |
| Col138 | 55 | 0.27  | 0.00 | 0.04  |
| Col138 | 56 | 0.27  | 0.00 | 0.00  |

COLUMN DEFLECTIONS:

| Id     | Load | Deflection(in) |       |
|--------|------|----------------|-------|
|        | Id   | Calc           | Limit |
| Col134 | 1    | 0.00           | 1.07  |
| Col134 | 2    | 0.00           | 1.07  |
| Col134 | 3    | 0.00           | 1.07  |
| Col134 | 4    | 0.00           | 1.07  |
| Col134 | 5    | 0.00           | 1.07  |
| Col134 | 6    | 0.00           | 1.07  |

|        |    |       |      |
|--------|----|-------|------|
| Col134 | 7  | 0.00  | 1.07 |
| Col134 | 8  | -0.07 | 1.07 |
| Col134 | 9  | -0.07 | 1.07 |
| Col134 | 10 | 0.08  | 1.07 |
| Col134 | 11 | 0.08  | 1.07 |
| Col134 | 12 | 0.08  | 1.07 |
| Col134 | 13 | 0.08  | 1.07 |
| Col134 | 14 | 0.08  | 1.07 |
| Col134 | 15 | 0.08  | 1.07 |
| Col134 | 16 | 0.06  | 1.07 |
| Col134 | 17 | 0.06  | 1.07 |
| Col134 | 18 | 0.06  | 1.07 |
| Col134 | 19 | 0.06  | 1.07 |
| Col134 | 20 | 0.06  | 1.07 |
| Col134 | 21 | 0.06  | 1.07 |
| Col134 | 22 | 0.06  | 1.07 |
| Col134 | 23 | 0.06  | 1.07 |
| Col134 | 24 | 0.06  | 1.07 |
| Col134 | 25 | 0.06  | 1.07 |
| Col134 | 26 | 0.06  | 1.07 |
| Col134 | 27 | 0.06  | 1.07 |
| Col134 | 28 | -0.07 | 1.07 |
| Col134 | 29 | -0.07 | 1.07 |
| Col134 | 30 | 0.08  | 1.07 |
| Col134 | 31 | 0.08  | 1.07 |
| Col134 | 32 | 0.08  | 1.07 |
| Col134 | 33 | 0.08  | 1.07 |
| Col134 | 34 | 0.08  | 1.07 |
| Col134 | 35 | 0.08  | 1.07 |
| Col134 | 36 | 0.00  | 1.07 |
| Col134 | 37 | 0.00  | 1.07 |
| Col134 | 38 | 0.00  | 1.07 |
| Col134 | 39 | 0.00  | 1.07 |
| Col134 | 40 | 0.00  | 1.07 |
| Col134 | 41 | 0.00  | 1.07 |
| Col134 | 42 | 0.00  | 1.07 |
| Col134 | 43 | 0.00  | 1.07 |
| Col134 | 44 | 0.00  | 1.07 |
| Col134 | 45 | 0.00  | 1.07 |
| Col134 | 46 | 0.00  | 1.07 |
| Col134 | 47 | 0.04  | 1.07 |
| Col134 | 48 | 0.04  | 1.07 |
| Col134 | 49 | 0.00  | 1.07 |
| Col134 | 50 | 0.00  | 1.07 |
| Col134 | 51 | 0.06  | 1.07 |
| Col134 | 52 | 0.00  | 1.07 |
| Col135 | 1  | 0.00  | 1.07 |
| Col135 | 2  | 0.00  | 1.07 |
| Col135 | 3  | 0.00  | 1.07 |
| Col135 | 4  | 0.00  | 1.07 |
| Col135 | 5  | 0.00  | 1.07 |
| Col135 | 6  | 0.00  | 1.07 |
| Col135 | 7  | 0.00  | 1.07 |
| Col135 | 8  | 0.00  | 1.07 |
| Col135 | 9  | 0.00  | 1.07 |
| Col135 | 10 | 0.00  | 1.07 |
| Col135 | 11 | 0.00  | 1.07 |
| Col135 | 12 | 0.00  | 1.07 |
| Col135 | 13 | 0.00  | 1.07 |
| Col135 | 14 | 0.00  | 1.07 |
| Col135 | 15 | 0.00  | 1.07 |
| Col135 | 16 | 0.00  | 1.07 |
| Col135 | 17 | 0.00  | 1.07 |
| Col135 | 18 | 0.00  | 1.07 |
| Col135 | 19 | 0.00  | 1.07 |

|        |    |      |      |
|--------|----|------|------|
| Col135 | 20 | 0.00 | 1.07 |
| Col135 | 21 | 0.00 | 1.07 |
| Col135 | 22 | 0.00 | 1.07 |
| Col135 | 23 | 0.00 | 1.07 |
| Col135 | 24 | 0.00 | 1.07 |
| Col135 | 25 | 0.00 | 1.07 |
| Col135 | 26 | 0.00 | 1.07 |
| Col135 | 27 | 0.00 | 1.07 |
| Col135 | 28 | 0.00 | 1.07 |
| Col135 | 29 | 0.00 | 1.07 |
| Col135 | 30 | 0.00 | 1.07 |
| Col135 | 31 | 0.00 | 1.07 |
| Col135 | 32 | 0.00 | 1.07 |
| Col135 | 33 | 0.00 | 1.07 |
| Col135 | 34 | 0.00 | 1.07 |
| Col135 | 35 | 0.00 | 1.07 |
| Col135 | 36 | 0.00 | 1.07 |
| Col135 | 37 | 0.00 | 1.07 |
| Col135 | 38 | 0.00 | 1.07 |
| Col135 | 39 | 0.00 | 1.07 |
| Col135 | 40 | 0.00 | 1.07 |
| Col135 | 41 | 0.00 | 1.07 |
| Col135 | 42 | 0.00 | 1.07 |
| Col135 | 43 | 0.00 | 1.07 |
| Col135 | 44 | 0.00 | 1.07 |
| Col135 | 45 | 0.00 | 1.07 |
| Col135 | 46 | 0.00 | 1.07 |
| Col135 | 47 | 0.00 | 1.07 |
| Col135 | 48 | 0.00 | 1.07 |
| Col135 | 49 | 0.00 | 1.07 |
| Col135 | 50 | 0.00 | 1.07 |
| Col135 | 51 | 0.00 | 1.07 |
| Col135 | 52 | 0.00 | 1.07 |
| Col136 | 1  | 0.00 | 1.07 |
| Col136 | 2  | 0.00 | 1.07 |
| Col136 | 3  | 0.00 | 1.07 |
| Col136 | 4  | 0.00 | 1.07 |
| Col136 | 5  | 0.00 | 1.07 |
| Col136 | 6  | 0.00 | 1.07 |
| Col136 | 7  | 0.00 | 1.07 |
| Col136 | 8  | 0.00 | 1.07 |
| Col136 | 9  | 0.00 | 1.07 |
| Col136 | 10 | 0.00 | 1.07 |
| Col136 | 11 | 0.00 | 1.07 |
| Col136 | 12 | 0.00 | 1.07 |
| Col136 | 13 | 0.00 | 1.07 |
| Col136 | 14 | 0.00 | 1.07 |
| Col136 | 15 | 0.00 | 1.07 |
| Col136 | 16 | 0.00 | 1.07 |
| Col136 | 17 | 0.00 | 1.07 |
| Col136 | 18 | 0.00 | 1.07 |
| Col136 | 19 | 0.00 | 1.07 |
| Col136 | 20 | 0.00 | 1.07 |
| Col136 | 21 | 0.00 | 1.07 |
| Col136 | 22 | 0.00 | 1.07 |
| Col136 | 23 | 0.00 | 1.07 |
| Col136 | 24 | 0.00 | 1.07 |
| Col136 | 25 | 0.00 | 1.07 |
| Col136 | 26 | 0.00 | 1.07 |
| Col136 | 27 | 0.00 | 1.07 |
| Col136 | 28 | 0.00 | 1.07 |
| Col136 | 29 | 0.00 | 1.07 |
| Col136 | 30 | 0.00 | 1.07 |
| Col136 | 31 | 0.00 | 1.07 |
| Col136 | 32 | 0.00 | 1.07 |

|        |    |      |      |
|--------|----|------|------|
| Col136 | 33 | 0.00 | 1.07 |
| Col136 | 34 | 0.00 | 1.07 |
| Col136 | 35 | 0.00 | 1.07 |
| Col136 | 36 | 0.00 | 1.07 |
| Col136 | 37 | 0.00 | 1.07 |
| Col136 | 38 | 0.00 | 1.07 |
| Col136 | 39 | 0.00 | 1.07 |
| Col136 | 40 | 0.00 | 1.07 |
| Col136 | 41 | 0.00 | 1.07 |
| Col136 | 42 | 0.00 | 1.07 |
| Col136 | 43 | 0.00 | 1.07 |
| Col136 | 44 | 0.00 | 1.07 |
| Col136 | 45 | 0.00 | 1.07 |
| Col136 | 46 | 0.00 | 1.07 |
| Col136 | 47 | 0.00 | 1.07 |
| Col136 | 48 | 0.00 | 1.07 |
| Col136 | 49 | 0.00 | 1.07 |
| Col136 | 50 | 0.00 | 1.07 |
| Col136 | 51 | 0.00 | 1.07 |
| Col136 | 52 | 0.00 | 1.07 |
| Col137 | 1  | 0.00 | 1.07 |
| Col137 | 2  | 0.00 | 1.07 |
| Col137 | 3  | 0.00 | 1.07 |
| Col137 | 4  | 0.00 | 1.07 |
| Col137 | 5  | 0.00 | 1.07 |
| Col137 | 6  | 0.00 | 1.07 |
| Col137 | 7  | 0.00 | 1.07 |
| Col137 | 8  | 0.00 | 1.07 |
| Col137 | 9  | 0.00 | 1.07 |
| Col137 | 10 | 0.00 | 1.07 |
| Col137 | 11 | 0.00 | 1.07 |
| Col137 | 12 | 0.00 | 1.07 |
| Col137 | 13 | 0.00 | 1.07 |
| Col137 | 14 | 0.00 | 1.07 |
| Col137 | 15 | 0.00 | 1.07 |
| Col137 | 16 | 0.00 | 1.07 |
| Col137 | 17 | 0.00 | 1.07 |
| Col137 | 18 | 0.00 | 1.07 |
| Col137 | 19 | 0.00 | 1.07 |
| Col137 | 20 | 0.00 | 1.07 |
| Col137 | 21 | 0.00 | 1.07 |
| Col137 | 22 | 0.00 | 1.07 |
| Col137 | 23 | 0.00 | 1.07 |
| Col137 | 24 | 0.00 | 1.07 |
| Col137 | 25 | 0.00 | 1.07 |
| Col137 | 26 | 0.00 | 1.07 |
| Col137 | 27 | 0.00 | 1.07 |
| Col137 | 28 | 0.00 | 1.07 |
| Col137 | 29 | 0.00 | 1.07 |
| Col137 | 30 | 0.00 | 1.07 |
| Col137 | 31 | 0.00 | 1.07 |
| Col137 | 32 | 0.00 | 1.07 |
| Col137 | 33 | 0.00 | 1.07 |
| Col137 | 34 | 0.00 | 1.07 |
| Col137 | 35 | 0.00 | 1.07 |
| Col137 | 36 | 0.00 | 1.07 |
| Col137 | 37 | 0.00 | 1.07 |
| Col137 | 38 | 0.00 | 1.07 |
| Col137 | 39 | 0.00 | 1.07 |
| Col137 | 40 | 0.00 | 1.07 |
| Col137 | 41 | 0.00 | 1.07 |
| Col137 | 42 | 0.00 | 1.07 |
| Col137 | 43 | 0.00 | 1.07 |
| Col137 | 44 | 0.00 | 1.07 |
| Col137 | 45 | 0.00 | 1.07 |



|        |    |       |      |
|--------|----|-------|------|
| Col137 | 46 | 0.00  | 1.07 |
| Col137 | 47 | 0.00  | 1.07 |
| Col137 | 48 | 0.00  | 1.07 |
| Col137 | 49 | 0.00  | 1.07 |
| Col137 | 50 | 0.00  | 1.07 |
| Col137 | 51 | 0.00  | 1.07 |
| Col137 | 52 | 0.00  | 1.07 |
| Col138 | 1  | 0.00  | 1.07 |
| Col138 | 2  | 0.00  | 1.07 |
| Col138 | 3  | 0.00  | 1.07 |
| Col138 | 4  | 0.00  | 1.07 |
| Col138 | 5  | 0.00  | 1.07 |
| Col138 | 6  | 0.00  | 1.07 |
| Col138 | 7  | 0.00  | 1.07 |
| Col138 | 8  | -0.07 | 1.07 |
| Col138 | 9  | -0.07 | 1.07 |
| Col138 | 10 | 0.08  | 1.07 |
| Col138 | 11 | 0.08  | 1.07 |
| Col138 | 12 | 0.08  | 1.07 |
| Col138 | 13 | 0.08  | 1.07 |
| Col138 | 14 | 0.08  | 1.07 |
| Col138 | 15 | 0.08  | 1.07 |
| Col138 | 16 | 0.06  | 1.07 |
| Col138 | 17 | 0.06  | 1.07 |
| Col138 | 18 | 0.06  | 1.07 |
| Col138 | 19 | 0.06  | 1.07 |
| Col138 | 20 | 0.06  | 1.07 |
| Col138 | 21 | 0.06  | 1.07 |
| Col138 | 22 | 0.06  | 1.07 |
| Col138 | 23 | 0.06  | 1.07 |
| Col138 | 24 | 0.06  | 1.07 |
| Col138 | 25 | 0.06  | 1.07 |
| Col138 | 26 | 0.06  | 1.07 |
| Col138 | 27 | 0.06  | 1.07 |
| Col138 | 28 | -0.07 | 1.07 |
| Col138 | 29 | -0.07 | 1.07 |
| Col138 | 30 | 0.08  | 1.07 |
| Col138 | 31 | 0.08  | 1.07 |
| Col138 | 32 | 0.08  | 1.07 |
| Col138 | 33 | 0.08  | 1.07 |
| Col138 | 34 | 0.08  | 1.07 |
| Col138 | 35 | 0.08  | 1.07 |
| Col138 | 36 | 0.00  | 1.07 |
| Col138 | 37 | 0.00  | 1.07 |
| Col138 | 38 | 0.00  | 1.07 |
| Col138 | 39 | 0.00  | 1.07 |
| Col138 | 40 | 0.00  | 1.07 |
| Col138 | 41 | 0.00  | 1.07 |
| Col138 | 42 | 0.00  | 1.07 |
| Col138 | 43 | 0.00  | 1.07 |
| Col138 | 44 | 0.00  | 1.07 |
| Col138 | 45 | 0.00  | 1.07 |
| Col138 | 46 | 0.00  | 1.07 |
| Col138 | 47 | 0.04  | 1.07 |
| Col138 | 48 | 0.04  | 1.07 |
| Col138 | 49 | 0.00  | 1.07 |
| Col138 | 50 | 0.00  | 1.07 |
| Col138 | 51 | 0.06  | 1.07 |
| Col138 | 52 | 0.00  | 1.07 |

RAFTER DEFLECTIONS:

| Id    | Load Id | Deflection (in)<br>Calc | Limit |
|-------|---------|-------------------------|-------|
| ----- | -----   | -----                   | ----- |

|      |    |      |      |
|------|----|------|------|
| Raf4 | 1  | 0.00 | 0.93 |
| Raf4 | 2  | 0.00 | 0.93 |
| Raf4 | 3  | 0.00 | 0.93 |
| Raf4 | 4  | 0.00 | 0.93 |
| Raf4 | 5  | 0.00 | 0.93 |
| Raf4 | 6  | 0.00 | 0.93 |
| Raf4 | 7  | 0.00 | 0.93 |
| Raf4 | 8  | 0.00 | 0.93 |
| Raf4 | 9  | 0.00 | 0.93 |
| Raf4 | 10 | 0.00 | 0.93 |
| Raf4 | 11 | 0.00 | 0.93 |
| Raf4 | 12 | 0.00 | 0.93 |
| Raf4 | 13 | 0.00 | 0.93 |
| Raf4 | 14 | 0.00 | 0.93 |
| Raf4 | 15 | 0.00 | 0.93 |
| Raf4 | 16 | 0.00 | 0.93 |
| Raf4 | 17 | 0.00 | 0.93 |
| Raf4 | 18 | 0.00 | 0.93 |
| Raf4 | 19 | 0.00 | 0.93 |
| Raf4 | 20 | 0.00 | 0.93 |
| Raf4 | 21 | 0.00 | 0.93 |
| Raf4 | 22 | 0.00 | 0.93 |
| Raf4 | 23 | 0.00 | 0.93 |
| Raf4 | 24 | 0.00 | 0.93 |
| Raf4 | 25 | 0.00 | 0.93 |
| Raf4 | 26 | 0.00 | 0.93 |
| Raf4 | 27 | 0.00 | 0.93 |
| Raf4 | 28 | 0.00 | 0.93 |
| Raf4 | 29 | 0.00 | 0.93 |
| Raf4 | 30 | 0.00 | 0.93 |
| Raf4 | 31 | 0.00 | 0.93 |
| Raf4 | 32 | 0.00 | 0.93 |
| Raf4 | 33 | 0.00 | 0.93 |
| Raf4 | 34 | 0.00 | 0.93 |
| Raf4 | 35 | 0.00 | 0.93 |
| Raf4 | 36 | 0.00 | 0.93 |
| Raf4 | 37 | 0.00 | 0.93 |
| Raf4 | 38 | 0.00 | 0.93 |
| Raf4 | 39 | 0.00 | 0.93 |
| Raf4 | 40 | 0.00 | 0.93 |
| Raf4 | 41 | 0.00 | 0.93 |
| Raf4 | 42 | 0.00 | 0.93 |
| Raf4 | 43 | 0.00 | 0.93 |
| Raf4 | 44 | 0.00 | 0.93 |
| Raf4 | 45 | 0.00 | 0.93 |
| Raf4 | 46 | 0.00 | 0.93 |
| Raf4 | 47 | 0.00 | 0.93 |
| Raf4 | 48 | 0.00 | 0.93 |
| Raf4 | 49 | 0.00 | 0.93 |
| Raf4 | 50 | 0.00 | 0.93 |
| Raf4 | 51 | 0.00 | 0.93 |
| Raf4 | 52 | 0.00 | 0.93 |
| Raf5 | 1  | 0.00 | 1.87 |
| Raf5 | 2  | 0.00 | 1.87 |
| Raf5 | 3  | 0.00 | 1.87 |
| Raf5 | 4  | 0.00 | 1.87 |
| Raf5 | 5  | 0.00 | 1.87 |
| Raf5 | 6  | 0.00 | 1.87 |
| Raf5 | 7  | 0.00 | 1.87 |
| Raf5 | 8  | 0.00 | 1.87 |
| Raf5 | 9  | 0.00 | 1.87 |
| Raf5 | 10 | 0.00 | 1.87 |
| Raf5 | 11 | 0.00 | 1.87 |
| Raf5 | 12 | 0.00 | 1.87 |
| Raf5 | 13 | 0.00 | 1.87 |

|      |    |      |      |
|------|----|------|------|
| Raf5 | 14 | 0.00 | 1.87 |
| Raf5 | 15 | 0.00 | 1.87 |
| Raf5 | 16 | 0.00 | 1.87 |
| Raf5 | 17 | 0.00 | 1.87 |
| Raf5 | 18 | 0.00 | 1.87 |
| Raf5 | 19 | 0.00 | 1.87 |
| Raf5 | 20 | 0.00 | 1.87 |
| Raf5 | 21 | 0.00 | 1.87 |
| Raf5 | 22 | 0.00 | 1.87 |
| Raf5 | 23 | 0.00 | 1.87 |
| Raf5 | 24 | 0.00 | 1.87 |
| Raf5 | 25 | 0.00 | 1.87 |
| Raf5 | 26 | 0.00 | 1.87 |
| Raf5 | 27 | 0.00 | 1.87 |
| Raf5 | 28 | 0.00 | 1.87 |
| Raf5 | 29 | 0.00 | 1.87 |
| Raf5 | 30 | 0.00 | 1.87 |
| Raf5 | 31 | 0.00 | 1.87 |
| Raf5 | 32 | 0.00 | 1.87 |
| Raf5 | 33 | 0.00 | 1.87 |
| Raf5 | 34 | 0.00 | 1.87 |
| Raf5 | 35 | 0.00 | 1.87 |
| Raf5 | 36 | 0.00 | 1.87 |
| Raf5 | 37 | 0.00 | 1.87 |
| Raf5 | 38 | 0.00 | 1.87 |
| Raf5 | 39 | 0.00 | 1.87 |
| Raf5 | 40 | 0.00 | 1.87 |
| Raf5 | 41 | 0.00 | 1.87 |
| Raf5 | 42 | 0.00 | 1.87 |
| Raf5 | 43 | 0.00 | 1.87 |
| Raf5 | 44 | 0.00 | 1.87 |
| Raf5 | 45 | 0.00 | 1.87 |
| Raf5 | 46 | 0.00 | 1.87 |
| Raf5 | 47 | 0.00 | 1.87 |
| Raf5 | 48 | 0.00 | 1.87 |
| Raf5 | 49 | 0.00 | 1.87 |
| Raf5 | 50 | 0.00 | 1.87 |
| Raf5 | 51 | 0.00 | 1.87 |
| Raf5 | 52 | 0.00 | 1.87 |
| Raf6 | 1  | 0.00 | 0.93 |
| Raf6 | 2  | 0.00 | 0.93 |
| Raf6 | 3  | 0.00 | 0.93 |
| Raf6 | 4  | 0.00 | 0.93 |
| Raf6 | 5  | 0.00 | 0.93 |
| Raf6 | 6  | 0.00 | 0.93 |
| Raf6 | 7  | 0.00 | 0.93 |
| Raf6 | 8  | 0.00 | 0.93 |
| Raf6 | 9  | 0.00 | 0.93 |
| Raf6 | 10 | 0.00 | 0.93 |
| Raf6 | 11 | 0.00 | 0.93 |
| Raf6 | 12 | 0.00 | 0.93 |
| Raf6 | 13 | 0.00 | 0.93 |
| Raf6 | 14 | 0.00 | 0.93 |
| Raf6 | 15 | 0.00 | 0.93 |
| Raf6 | 16 | 0.00 | 0.93 |
| Raf6 | 17 | 0.00 | 0.93 |
| Raf6 | 18 | 0.00 | 0.93 |
| Raf6 | 19 | 0.00 | 0.93 |
| Raf6 | 20 | 0.00 | 0.93 |
| Raf6 | 21 | 0.00 | 0.93 |
| Raf6 | 22 | 0.00 | 0.93 |
| Raf6 | 23 | 0.00 | 0.93 |
| Raf6 | 24 | 0.00 | 0.93 |
| Raf6 | 25 | 0.00 | 0.93 |
| Raf6 | 26 | 0.00 | 0.93 |

|      |    |      |      |
|------|----|------|------|
| Raf6 | 27 | 0.00 | 0.93 |
| Raf6 | 28 | 0.00 | 0.93 |
| Raf6 | 29 | 0.00 | 0.93 |
| Raf6 | 30 | 0.00 | 0.93 |
| Raf6 | 31 | 0.00 | 0.93 |
| Raf6 | 32 | 0.00 | 0.93 |
| Raf6 | 33 | 0.00 | 0.93 |
| Raf6 | 34 | 0.00 | 0.93 |
| Raf6 | 35 | 0.00 | 0.93 |
| Raf6 | 36 | 0.00 | 0.93 |
| Raf6 | 37 | 0.00 | 0.93 |
| Raf6 | 38 | 0.00 | 0.93 |
| Raf6 | 39 | 0.00 | 0.93 |
| Raf6 | 40 | 0.00 | 0.93 |
| Raf6 | 41 | 0.00 | 0.93 |
| Raf6 | 42 | 0.00 | 0.93 |
| Raf6 | 43 | 0.00 | 0.93 |
| Raf6 | 44 | 0.00 | 0.93 |
| Raf6 | 45 | 0.00 | 0.93 |
| Raf6 | 46 | 0.00 | 0.93 |
| Raf6 | 47 | 0.00 | 0.93 |
| Raf6 | 48 | 0.00 | 0.93 |
| Raf6 | 49 | 0.00 | 0.93 |
| Raf6 | 50 | 0.00 | 0.93 |
| Raf6 | 51 | 0.00 | 0.93 |
| Raf6 | 52 | 0.00 | 0.93 |

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id     | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|--------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|        |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col134 | 16.1          | 4.1            | 4.1   | 83           | 66    | 0.00                             | 0.00 |
| Col135 | 0.1           | 4.1            | 4.1   | 1            | 66    | 0.00                             | 0.00 |
| Col136 | 0.1           | 4.1            | 4.1   | 1            | 66    | 0.00                             | 0.00 |
| Col137 | 0.1           | 4.1            | 4.1   | 1            | 66    | 0.00                             | 0.00 |
| Col138 | 16.1          | 4.1            | 4.1   | 83           | 66    | 0.00                             | 0.00 |

GIRT LAYOUT:

| Bay Id | Girt Id | Locate | Part   | Design Length | Available Reduction Factor |      |
|--------|---------|--------|--------|---------------|----------------------------|------|
|        |         |        |        |               | Out                        | In   |
| 2      | 1       | 4.000  | 6X2C16 | 7.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 7.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 7.333         | 0.00                       | 0.70 |

GIRT ACTIONS:

| Bay Id | Girt Id | Load | -Shear(k )- |       | Moment(f-k ) |       | Max UC | Deflect(in) |       |
|--------|---------|------|-------------|-------|--------------|-------|--------|-------------|-------|
|        |         |      | Calc        | Limit | Calc         | Limit |        | Calc        | Limit |
| 2      | 1       | WP   | -0.15       | 3.32  | -0.27        | 2.65  | 0.10   | -0.01       | 0.98  |
|        |         | WS   | 0.16        | 3.32  | 0.30         | 2.15  | 0.14   | 0.02        | 0.98  |

WP - Wind\_Pressure  
 WS - Wind\_Suction

## JAMB/HEADER LAYOUT:

| Bay<br>Id | Id     | Part    | Length | Weight |
|-----------|--------|---------|--------|--------|
| 1         | JambL  | PBMJ6   | 16.08  | 56.0   |
|           | JambR  | PBMJ6   | 16.08  | 56.0   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 2         | JambL  | PBMJ6   | 16.08  | 56.0   |
|           | JambR  | PBMJ6   | 16.08  | 56.0   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 3         | JambL  | PBMJ6   | 16.08  | 56.0   |
|           | JambR  | PBMJ6   | 16.08  | 56.0   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 4         | JambL  | PBMJ6   | 16.08  | 56.0   |
|           | JambR  | PBMJ6   | 16.08  | 56.0   |
|           | Header | 6X25C16 | 12.00  | 28.1   |

## STRENGTH/DEFLECTION:

| Bay<br>Id | Id     | Load | -Shear(k )- |       | Moment(f-k ) |       | Max<br>UC | Deflect(in) |       |
|-----------|--------|------|-------------|-------|--------------|-------|-----------|-------------|-------|
|           |        |      | Calc        | Limit | Calc         | Limit |           | Calc        | Limit |
| 1         | JambL  | WP   | -0.53       | 5.26  | -2.12        | 3.90  | 0.54      | -0.29       | 2.14  |
|           |        | WS   | 0.62        | 5.26  | 2.48         | 3.90  | 0.64      | 0.34        | 2.14  |
|           | JambR  | WP   | -0.53       | 5.26  | -2.12        | 3.90  | 0.54      | -0.29       | 2.14  |
|           |        | WS   | 0.58        | 5.26  | 2.33         | 3.90  | 0.60      | 0.32        | 2.14  |
|           | Header | WP   | -0.06       | 3.86  | -0.19        | 0.98  | 0.19      | -0.02       | 1.60  |
|           |        | WS   | 0.07        | 3.86  | 0.21         | 1.93  | 0.11      | 0.03        | 1.60  |
| 2         | JambL  | WP   | -0.81       | 5.26  | -3.26        | 3.90  | 0.83      | -0.44       | 2.14  |
|           |        | WS   | 0.89        | 5.26  | 3.59         | 3.90  | 0.92      | 0.49        | 2.14  |
|           | JambR  | WP   | -0.81       | 5.26  | -3.26        | 3.90  | 0.83      | -0.44       | 2.14  |
|           |        | WS   | 0.89        | 5.26  | 3.59         | 3.90  | 0.92      | 0.49        | 2.14  |
|           | Header | WP   | -0.06       | 3.86  | -0.19        | 0.98  | 0.19      | -0.02       | 1.60  |
|           |        | WS   | 0.07        | 3.86  | 0.21         | 1.93  | 0.11      | 0.03        | 1.60  |
| 3         | JambL  | WP   | -0.53       | 5.26  | -2.12        | 3.90  | 0.54      | -0.29       | 2.14  |
|           |        | WS   | 0.58        | 5.26  | 2.33         | 3.90  | 0.60      | 0.32        | 2.14  |
|           | JambR  | WP   | -0.53       | 5.26  | -2.12        | 3.90  | 0.54      | -0.29       | 2.14  |
|           |        | WS   | 0.58        | 5.26  | 2.33         | 3.90  | 0.60      | 0.32        | 2.14  |
|           | Header | WP   | -0.06       | 3.86  | -0.19        | 0.98  | 0.19      | -0.02       | 1.60  |
|           |        | WS   | 0.07        | 3.86  | 0.21         | 1.93  | 0.11      | 0.03        | 1.60  |
| 4         | JambL  | WP   | -0.53       | 5.26  | -2.12        | 3.90  | 0.54      | -0.29       | 2.14  |
|           |        | WS   | 0.58        | 5.26  | 2.33         | 3.90  | 0.60      | 0.32        | 2.14  |
|           | JambR  | WP   | -0.53       | 5.26  | -2.12        | 3.90  | 0.54      | -0.29       | 2.14  |
|           |        | WS   | 0.62        | 5.26  | 2.48         | 3.90  | 0.64      | 0.34        | 2.14  |
|           | Header | WP   | -0.06       | 3.86  | -0.19        | 0.98  | 0.19      | -0.02       | 1.60  |
|           |        | WS   | 0.07        | 3.86  | 0.21         | 1.93  | 0.11      | 0.03        | 1.60  |

WP - Wind\_Pressure

WS - Wind\_Suction

PANEL DATA:

| Bay | Part    | Type | Gage  | Yield |
|-----|---------|------|-------|-------|
| 2   | CUSPANL | CP   | 20.00 | 50.0  |

MOMENTS & DEFLECTION:

| Span Id | Locate (ft) |       | Load | -----Moment (ft-lb/ft)----- |             |              |               |          |           | Max UC | Deflect (in) |       |
|---------|-------------|-------|------|-----------------------------|-------------|--------------|---------------|----------|-----------|--------|--------------|-------|
|         | Start       | End   |      | Start Calc                  | Start Limit | Midspan Calc | Midspan Limit | End Calc | End Limit |        | Calc         | Limit |
| 1       | 0.00        | 4.00  | WP   | 0.0                         | 49.1        | -15.4        | 49.1          | 21.4     | 38.1      | 0.56   | -0.15        | 0.80  |
|         |             |       | WS   | 0.0                         | 38.1        | 20.5         | 38.1          | -28.5    | 49.1      | 0.58   | 0.21         | 0.80  |
| 2       | 4.00        | 8.00  | WP   | 21.4                        | 38.1        | -7.3         | 49.1          | 14.1     | 38.1      | 0.56   | -0.05        | 0.80  |
|         |             |       | WS   | -28.5                       | 49.1        | 9.8          | 38.1          | -18.8    | 49.1      | 0.58   | 0.06         | 0.80  |
| 3       | 8.00        | 12.00 | WP   | 14.1                        | 38.1        | -7.1         | 49.1          | 22.0     | 38.1      | 0.58   | -0.04        | 0.80  |
|         |             |       | WS   | -18.8                       | 49.1        | 9.4          | 38.1          | -29.3    | 49.1      | 0.60   | 0.06         | 0.80  |
| 4       | 12.00       | 16.08 | WP   | 22.0                        | 38.1        | -16.2        | 49.1          | 0.0      | 38.1      | 0.58   | -0.17        | 0.82  |
|         |             |       | WS   | -29.3                       | 49.1        | 21.5         | 38.1          | 0.0      | 38.1      | 0.60   | 0.23         | 0.82  |

WP - Wind\_Pressure  
WS - Wind\_Suction

PANEL:

| Part    | Thick (in) | Yield (ksi ) | Tensile Strength (ksi ) |
|---------|------------|--------------|-------------------------|
| CUSPANL | 0.038      | 50.00        | 65.00                   |

GIRT SCREWS:

| Part | Dia (in) | Washer (in) | Limit (k ) |
|------|----------|-------------|------------|
| #29  | 0.21     | 0.50        | 2.90       |

PANEL ZONE LAYOUT:

| Zone Id | Description | ---Wall (ft)--- |         | Bay Id | --Girt (ft, ft, in)-- |       |           | Panel Span (ft) |
|---------|-------------|-----------------|---------|--------|-----------------------|-------|-----------|-----------------|
|         |             | Offset1         | Offset2 |        | Locate                | Width | Min Thick |                 |
| 1       | Interior    | 6.43            | 63.57   | 2      | 12.00                 | 4.04  | 0.059     | 4.08            |
| 2       | Lt Edge     | 0.00            | 6.43    | 1      | 12.00                 | 4.04  | 0.000     | 4.08            |
| 3       | Rt Edge     | 63.57           | 70.00   | 4      | 12.00                 | 4.04  | 0.000     | 4.08            |

GIRT SCREW CHECK:

| Zone Id | Screw Space | Wind Suction (psf ) | Load (k ) | -----Limit (k )----- |                |               | Max UC |
|---------|-------------|---------------------|-----------|----------------------|----------------|---------------|--------|
|         |             |                     |           | Girt Pullout         | Panel Pullover | Screw Tension |        |
| 1       | 1.00        | 16.62               | 0.07      | 0.22                 | 0.61           | 0.77          | 0.31   |
| 2       | 1.00        | 16.62               | 0.07      |                      |                |               |        |
| 3       | 1.00        | 16.62               | 0.07      |                      |                |               |        |



WALL LAYOUT:

| Wall Id | Orn | LeftEW Offset | BackSW Offset | Wall Length | Load Width |
|---------|-----|---------------|---------------|-------------|------------|
| 6       | T   | 14.00         | 0.00          | 65.00       | 21.00      |

MEMBER LAYOUT:

| Id     | Locate |        | ---Web (in)--- |       | -Flange (in)- |       | Length (ft) | Weight (lb) | ----Max_Load---- |      |         |
|--------|--------|--------|----------------|-------|---------------|-------|-------------|-------------|------------------|------|---------|
|        | (ft)   | Part   | Depth          | Thick | Width         | Thick |             |             | Id               | UC   | Report  |
| Col140 | 5.0    | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.3        | 35.8        | 17               | 0.43 | Mom+Axl |
| Col141 | 10.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.5        | 36.2        | 55               | 0.45 | Mom+Axl |
| Col142 | 15.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.7        | 36.7        | 55               | 0.47 | Mom+Axl |
| Col143 | 20.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.0        | 37.1        | 55               | 0.48 | Mom+Axl |
| Col144 | 25.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.2        | 37.6        | 55               | 0.49 | Mom+Axl |
| Col145 | 30.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.3        | 37.9        | 55               | 0.49 | Mom+Axl |
| Col146 | 35.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.2        | 37.6        | 55               | 0.49 | Mom+Axl |
| Col147 | 40.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 17.0        | 37.1        | 55               | 0.48 | Mom+Axl |
| Col148 | 45.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.7        | 36.7        | 55               | 0.47 | Mom+Axl |
| Col149 | 50.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.5        | 36.2        | 16               | 0.44 | Mom+Axl |
| Col150 | 55.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.3        | 35.8        | 16               | 0.43 | Mom+Axl |
| Col151 | 60.0   | 6X2C16 | 6.00           | 16ga  | 2.00          | 16ga  | 16.1        | 35.3        | 16               | 0.42 | Mom+Axl |
| Total= |        |        |                |       |               |       |             | 440.0       |                  |      |         |

DESIGN ACTIONS/STRENGTH:

| Id     | Load Id | -Axial (k )- |       | -Shear (k )- |       | Moment (f-k ) |       | -----Unity_Check----- |       |        |        |
|--------|---------|--------------|-------|--------------|-------|---------------|-------|-----------------------|-------|--------|--------|
|        |         | Calc         | Limit | Calc         | Limit | Calc          | Limit | Axial                 | Shear | Moment | Shear+ |
| Col140 | 1       | 2.41         | 8.55  | 0.00         | 3.32  | 0.00          | 3.07  | 0.28                  | 0.00  | 0.28   | 0.00   |
| Col140 | 2       | 0.31         | 8.55  | 0.00         | 3.32  | 0.00          | 3.07  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col140 | 3       | 1.71         | 8.55  | 0.00         | 3.32  | 0.00          | 3.07  | 0.20                  | 0.00  | 0.20   | 0.00   |
| Col140 | 4       | 1.71         | 8.55  | 0.00         | 3.32  | 0.00          | 3.07  | 0.20                  | 0.00  | 0.20   | 0.00   |
| Col140 | 5       | 1.88         | 8.55  | 0.00         | 3.32  | 0.00          | 3.07  | 0.22                  | 0.00  | 0.22   | 0.00   |
| Col140 | 6       | 1.36         | 8.55  | 0.00         | 3.32  | 0.00          | 3.07  | 0.16                  | 0.00  | 0.16   | 0.00   |
| Col140 | 7       | 1.36         | 8.55  | 0.00         | 3.32  | 0.00          | 3.07  | 0.16                  | 0.00  | 0.16   | 0.00   |
| Col140 | 8       | -1.13        | 21.18 | 0.24         | 3.32  | -1.00         | 3.07  | 0.05                  | 0.07  | 0.27   | 0.00   |
| Col140 | 9       | -0.54        | 21.18 | 0.24         | 3.32  | -1.00         | 3.07  | 0.03                  | 0.07  | 0.30   | 0.00   |
| Col140 | 10      | -1.13        | 21.18 | -0.24        | 3.32  | 1.00          | 3.07  | 0.05                  | 0.07  | 0.27   | 0.00   |
| Col140 | 11      | -0.54        | 21.18 | -0.24        | 3.32  | 1.00          | 3.07  | 0.03                  | 0.07  | 0.30   | 0.00   |
| Col140 | 12      | -1.13        | 21.18 | -0.24        | 3.32  | 1.00          | 3.07  | 0.05                  | 0.07  | 0.27   | 0.00   |
| Col140 | 13      | -0.54        | 21.18 | -0.24        | 3.32  | 1.00          | 3.07  | 0.03                  | 0.07  | 0.30   | 0.00   |
| Col140 | 14      | -0.69        | 21.18 | -0.24        | 3.32  | 1.00          | 3.07  | 0.03                  | 0.07  | 0.29   | 0.00   |
| Col140 | 15      | -0.11        | 21.18 | -0.24        | 3.32  | 1.00          | 3.07  | 0.01                  | 0.07  | 0.32   | 0.00   |
| Col140 | 16      | 1.17         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.14                  | 0.06  | 0.38   | 0.00   |
| Col140 | 17      | 1.61         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.19                  | 0.06  | 0.43   | 0.00   |
| Col140 | 18      | 0.85         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.10                  | 0.06  | 0.34   | 0.00   |
| Col140 | 19      | 1.28         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.15                  | 0.06  | 0.39   | 0.00   |
| Col140 | 20      | 0.65         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.08                  | 0.06  | 0.32   | 0.00   |
| Col140 | 21      | 1.09         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.13                  | 0.06  | 0.37   | 0.00   |
| Col140 | 22      | 0.33         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.04                  | 0.06  | 0.28   | 0.00   |
| Col140 | 23      | 0.76         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.09                  | 0.06  | 0.33   | 0.00   |
| Col140 | 24      | 0.65         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.08                  | 0.06  | 0.32   | 0.00   |
| Col140 | 25      | 1.09         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.13                  | 0.06  | 0.37   | 0.00   |
| Col140 | 26      | 0.33         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.04                  | 0.06  | 0.28   | 0.00   |
| Col140 | 27      | 0.76         | 8.55  | -0.18        | 3.32  | 0.75          | 3.07  | 0.09                  | 0.06  | 0.33   | 0.00   |
| Col140 | 28      | -1.21        | 21.18 | 0.24         | 3.32  | -1.00         | 3.07  | 0.06                  | 0.07  | 0.27   | 0.00   |
| Col140 | 29      | -0.63        | 21.18 | 0.24         | 3.32  | -1.00         | 3.07  | 0.03                  | 0.07  | 0.30   | 0.00   |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col40 | 30 | -1.21 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.06 | 0.07 | 0.27 | 0.00 |
| Col40 | 31 | -0.63 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col40 | 32 | -1.21 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.06 | 0.07 | 0.27 | 0.00 |
| Col40 | 33 | -0.63 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col40 | 34 | -0.77 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.04 | 0.07 | 0.29 | 0.00 |
| Col40 | 35 | -0.19 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.01 | 0.07 | 0.32 | 0.00 |
| Col40 | 36 | 0.32  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col40 | 37 | 0.32  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col40 | 38 | 1.89  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col40 | 39 | 1.89  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col40 | 40 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col40 | 41 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col40 | 42 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col40 | 43 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col40 | 44 | 0.16  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 45 | 0.16  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 46 | 1.99  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col40 | 47 | 0.86  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.10 | 0.06 | 0.34 | 0.00 |
| Col40 | 48 | 1.30  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.15 | 0.06 | 0.40 | 0.00 |
| Col40 | 49 | 0.31  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col40 | 50 | 0.31  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col40 | 51 | 0.17  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 52 | 0.17  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 53 | 1.73  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col40 | 54 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col40 | 55 | 1.37  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.16 | 0.06 | 0.41 | 0.00 |
| Col40 | 56 | 1.38  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col41 | 1  | 2.41  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.29 | 0.00 | 0.29 | 0.00 |
| Col41 | 2  | 0.31  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col41 | 3  | 1.72  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col41 | 4  | 1.72  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col41 | 5  | 1.88  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col41 | 6  | 1.36  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col41 | 7  | 1.36  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col41 | 8  | -1.13 | 21.18 | 0.25  | 3.32 | -1.03 | 3.07 | 0.05 | 0.07 | 0.28 | 0.00 |
| Col41 | 9  | -0.54 | 21.18 | 0.25  | 3.32 | -1.03 | 3.07 | 0.03 | 0.07 | 0.31 | 0.00 |
| Col41 | 10 | -1.13 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.05 | 0.07 | 0.28 | 0.00 |
| Col41 | 11 | -0.54 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.31 | 0.00 |
| Col41 | 12 | -1.13 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.05 | 0.07 | 0.28 | 0.00 |
| Col41 | 13 | -0.54 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.31 | 0.00 |
| Col41 | 14 | -0.69 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col41 | 15 | -0.11 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col41 | 16 | 1.17  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.14 | 0.06 | 0.39 | 0.00 |
| Col41 | 17 | 1.61  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.19 | 0.06 | 0.44 | 0.00 |
| Col41 | 18 | 0.85  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.10 | 0.06 | 0.35 | 0.00 |
| Col41 | 19 | 1.28  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.15 | 0.06 | 0.40 | 0.00 |
| Col41 | 20 | 0.65  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.08 | 0.06 | 0.33 | 0.00 |
| Col41 | 21 | 1.09  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.13 | 0.06 | 0.38 | 0.00 |
| Col41 | 22 | 0.33  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.04 | 0.06 | 0.29 | 0.00 |
| Col41 | 23 | 0.76  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.09 | 0.06 | 0.34 | 0.00 |
| Col41 | 24 | 0.65  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.08 | 0.06 | 0.33 | 0.00 |
| Col41 | 25 | 1.09  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.13 | 0.06 | 0.38 | 0.00 |
| Col41 | 26 | 0.33  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.04 | 0.06 | 0.29 | 0.00 |
| Col41 | 27 | 0.76  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.09 | 0.06 | 0.34 | 0.00 |
| Col41 | 28 | -1.21 | 21.18 | 0.25  | 3.32 | -1.03 | 3.07 | 0.06 | 0.07 | 0.28 | 0.00 |
| Col41 | 29 | -0.63 | 21.18 | 0.25  | 3.32 | -1.03 | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col41 | 30 | -1.21 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.06 | 0.07 | 0.28 | 0.00 |
| Col41 | 31 | -0.63 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col41 | 32 | -1.21 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.06 | 0.07 | 0.28 | 0.00 |
| Col41 | 33 | -0.63 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col41 | 34 | -0.77 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.04 | 0.07 | 0.30 | 0.00 |
| Col41 | 35 | -0.19 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col41 | 36 | 0.32  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col41 | 37 | 0.32  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col41 | 38 | 1.89  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col41 | 39 | 1.89  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col41 | 40 | 1.37  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col41 | 41 | 1.37  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col41 | 42 | 1.37  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col41 | 43 | 1.37  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col41 | 44 | 0.17  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 45 | 0.17  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 46 | 1.99  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.24 | 0.00 | 0.24 | 0.00 |
| Col41 | 47 | 0.86  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.10 | 0.06 | 0.35 | 0.00 |
| Col41 | 48 | 1.30  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.15 | 0.06 | 0.40 | 0.00 |
| Col41 | 49 | 0.31  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col41 | 50 | 0.31  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col41 | 51 | 0.17  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 52 | 0.17  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 53 | 2.10  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.25 | 0.00 | 0.25 | 0.00 |
| Col41 | 54 | 1.65  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col41 | 55 | 1.65  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.20 | 0.06 | 0.45 | 0.00 |
| Col41 | 56 | 1.65  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col42 | 1  | 2.41  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.29 | 0.00 | 0.29 | 0.00 |
| Col42 | 2  | 0.31  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col42 | 3  | 1.72  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col42 | 4  | 1.72  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col42 | 5  | 1.88  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col42 | 6  | 1.36  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col42 | 7  | 1.36  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col42 | 8  | -1.13 | 21.18 | 0.25  | 3.32 | -1.05 | 3.07 | 0.05 | 0.08 | 0.29 | 0.00 |
| Col42 | 9  | -0.54 | 21.18 | 0.25  | 3.32 | -1.05 | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col42 | 10 | -1.13 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.05 | 0.08 | 0.29 | 0.00 |
| Col42 | 11 | -0.54 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col42 | 12 | -1.13 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.05 | 0.08 | 0.29 | 0.00 |
| Col42 | 13 | -0.54 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col42 | 14 | -0.69 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.31 | 0.00 |
| Col42 | 15 | -0.11 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.01 | 0.08 | 0.34 | 0.00 |
| Col42 | 16 | 1.17  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.14 | 0.06 | 0.40 | 0.00 |
| Col42 | 17 | 1.61  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.19 | 0.06 | 0.45 | 0.00 |
| Col42 | 18 | 0.85  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.10 | 0.06 | 0.36 | 0.00 |
| Col42 | 19 | 1.28  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.15 | 0.06 | 0.41 | 0.00 |
| Col42 | 20 | 0.65  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.08 | 0.06 | 0.34 | 0.00 |
| Col42 | 21 | 1.09  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.13 | 0.06 | 0.39 | 0.00 |
| Col42 | 22 | 0.33  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.04 | 0.06 | 0.30 | 0.00 |
| Col42 | 23 | 0.76  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.09 | 0.06 | 0.35 | 0.00 |
| Col42 | 24 | 0.65  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.08 | 0.06 | 0.34 | 0.00 |
| Col42 | 25 | 1.09  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.13 | 0.06 | 0.39 | 0.00 |
| Col42 | 26 | 0.33  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.04 | 0.06 | 0.30 | 0.00 |
| Col42 | 27 | 0.76  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.09 | 0.06 | 0.35 | 0.00 |
| Col42 | 28 | -1.21 | 21.18 | 0.25  | 3.32 | -1.05 | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col42 | 29 | -0.63 | 21.18 | 0.25  | 3.32 | -1.05 | 3.07 | 0.03 | 0.08 | 0.31 | 0.00 |
| Col42 | 30 | -1.21 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col42 | 31 | -0.63 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.31 | 0.00 |
| Col42 | 32 | -1.21 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col42 | 33 | -0.63 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.31 | 0.00 |
| Col42 | 34 | -0.77 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.04 | 0.08 | 0.31 | 0.00 |
| Col42 | 35 | -0.19 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.01 | 0.08 | 0.33 | 0.00 |
| Col42 | 36 | 0.32  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col42 | 37 | 0.32  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col42 | 38 | 1.89  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col42 | 39 | 1.89  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col42 | 40 | 1.37  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col42 | 41 | 1.37  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col42 | 42 | 1.37  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col42 | 43 | 1.37  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col42 | 44 | 0.17  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col42 | 45 | 0.17  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col42 | 46 | 1.99  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.24 | 0.00 | 0.24 | 0.00 |
| Col42 | 47 | 0.86  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.10 | 0.06 | 0.36 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col42 | 48 | 1.30  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.16 | 0.06 | 0.41 | 0.00 |
| Col42 | 49 | 0.31  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col42 | 50 | 0.31  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col42 | 51 | 0.17  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col42 | 52 | 0.17  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col42 | 53 | 2.29  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.27 | 0.00 | 0.27 | 0.00 |
| Col42 | 54 | 1.79  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col42 | 55 | 1.79  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.21 | 0.06 | 0.47 | 0.00 |
| Col42 | 56 | 1.79  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col43 | 1  | 2.41  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.29 | 0.00 | 0.29 | 0.00 |
| Col43 | 2  | 0.31  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col43 | 3  | 1.72  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col43 | 4  | 1.72  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col43 | 5  | 1.88  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col43 | 6  | 1.36  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col43 | 7  | 1.36  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col43 | 8  | -1.12 | 21.18 | 0.25  | 3.32 | -1.08 | 3.07 | 0.05 | 0.08 | 0.30 | 0.00 |
| Col43 | 9  | -0.54 | 21.18 | 0.25  | 3.32 | -1.08 | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col43 | 10 | -1.12 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.05 | 0.08 | 0.30 | 0.00 |
| Col43 | 11 | -0.54 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col43 | 12 | -1.12 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.05 | 0.08 | 0.30 | 0.00 |
| Col43 | 13 | -0.54 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col43 | 14 | -0.69 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col43 | 15 | -0.11 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.01 | 0.08 | 0.35 | 0.00 |
| Col43 | 16 | 1.18  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.14 | 0.06 | 0.41 | 0.00 |
| Col43 | 17 | 1.61  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.20 | 0.06 | 0.46 | 0.00 |
| Col43 | 18 | 0.85  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.10 | 0.06 | 0.37 | 0.00 |
| Col43 | 19 | 1.28  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.16 | 0.06 | 0.42 | 0.00 |
| Col43 | 20 | 0.66  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.08 | 0.06 | 0.34 | 0.00 |
| Col43 | 21 | 1.09  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.13 | 0.06 | 0.40 | 0.00 |
| Col43 | 22 | 0.33  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.04 | 0.06 | 0.30 | 0.00 |
| Col43 | 23 | 0.76  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.09 | 0.06 | 0.36 | 0.00 |
| Col43 | 24 | 0.66  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.08 | 0.06 | 0.34 | 0.00 |
| Col43 | 25 | 1.09  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.13 | 0.06 | 0.40 | 0.00 |
| Col43 | 26 | 0.33  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.04 | 0.06 | 0.30 | 0.00 |
| Col43 | 27 | 0.76  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.09 | 0.06 | 0.36 | 0.00 |
| Col43 | 28 | -1.21 | 21.18 | 0.25  | 3.32 | -1.08 | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col43 | 29 | -0.63 | 21.18 | 0.25  | 3.32 | -1.08 | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col43 | 30 | -1.21 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col43 | 31 | -0.63 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col43 | 32 | -1.21 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col43 | 33 | -0.63 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col43 | 34 | -0.77 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.04 | 0.08 | 0.31 | 0.00 |
| Col43 | 35 | -0.19 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.01 | 0.08 | 0.34 | 0.00 |
| Col43 | 36 | 0.32  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col43 | 37 | 0.32  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col43 | 38 | 1.89  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col43 | 39 | 1.89  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col43 | 40 | 1.37  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col43 | 41 | 1.37  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col43 | 42 | 1.37  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col43 | 43 | 1.37  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col43 | 44 | 0.17  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col43 | 45 | 0.17  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col43 | 46 | 1.99  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.24 | 0.00 | 0.24 | 0.00 |
| Col43 | 47 | 0.86  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.10 | 0.06 | 0.37 | 0.00 |
| Col43 | 48 | 1.30  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.16 | 0.06 | 0.42 | 0.00 |
| Col43 | 49 | 0.31  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col43 | 50 | 0.31  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col43 | 51 | 0.17  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col43 | 52 | 0.17  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col43 | 53 | 2.29  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.28 | 0.00 | 0.28 | 0.00 |
| Col43 | 54 | 1.79  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col43 | 55 | 1.79  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.22 | 0.06 | 0.48 | 0.00 |
| Col43 | 56 | 1.79  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col144 | 1  | 2.41  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.30 | 0.00 | 0.30 | 0.00 |
| Col144 | 2  | 0.31  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col144 | 3  | 1.72  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col144 | 4  | 1.72  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col144 | 5  | 1.88  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col144 | 6  | 1.36  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col144 | 7  | 1.36  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col144 | 8  | -1.12 | 21.18 | 0.26  | 3.32 | -1.11 | 3.07 | 0.05 | 0.08 | 0.31 | 0.00 |
| Col144 | 9  | -0.54 | 21.18 | 0.26  | 3.32 | -1.11 | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col144 | 10 | -1.12 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.05 | 0.08 | 0.31 | 0.00 |
| Col144 | 11 | -0.54 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col144 | 12 | -1.12 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.05 | 0.08 | 0.31 | 0.00 |
| Col144 | 13 | -0.54 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col144 | 14 | -0.69 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col144 | 15 | -0.11 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.01 | 0.08 | 0.35 | 0.00 |
| Col144 | 16 | 1.18  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.14 | 0.06 | 0.41 | 0.00 |
| Col144 | 17 | 1.61  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.20 | 0.06 | 0.47 | 0.00 |
| Col144 | 18 | 0.85  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.10 | 0.06 | 0.37 | 0.00 |
| Col144 | 19 | 1.28  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.16 | 0.06 | 0.43 | 0.00 |
| Col144 | 20 | 0.66  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.08 | 0.06 | 0.35 | 0.00 |
| Col144 | 21 | 1.09  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.13 | 0.06 | 0.40 | 0.00 |
| Col144 | 22 | 0.33  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.04 | 0.06 | 0.31 | 0.00 |
| Col144 | 23 | 0.76  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.09 | 0.06 | 0.36 | 0.00 |
| Col144 | 24 | 0.66  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.08 | 0.06 | 0.35 | 0.00 |
| Col144 | 25 | 1.09  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.13 | 0.06 | 0.40 | 0.00 |
| Col144 | 26 | 0.33  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.04 | 0.06 | 0.31 | 0.00 |
| Col144 | 27 | 0.76  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.09 | 0.06 | 0.36 | 0.00 |
| Col144 | 28 | -1.21 | 21.18 | 0.26  | 3.32 | -1.11 | 3.07 | 0.06 | 0.08 | 0.30 | 0.00 |
| Col144 | 29 | -0.63 | 21.18 | 0.26  | 3.32 | -1.11 | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col144 | 30 | -1.21 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.06 | 0.08 | 0.30 | 0.00 |
| Col144 | 31 | -0.63 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col144 | 32 | -1.21 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.06 | 0.08 | 0.30 | 0.00 |
| Col144 | 33 | -0.63 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col144 | 34 | -0.77 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.04 | 0.08 | 0.32 | 0.00 |
| Col144 | 35 | -0.19 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.01 | 0.08 | 0.35 | 0.00 |
| Col144 | 36 | 0.32  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col144 | 37 | 0.32  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col144 | 38 | 1.89  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col144 | 39 | 1.89  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col144 | 40 | 1.37  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col144 | 41 | 1.37  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col144 | 42 | 1.37  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col144 | 43 | 1.37  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col144 | 44 | 0.17  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 45 | 0.17  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 46 | 1.99  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.24 | 0.00 | 0.24 | 0.00 |
| Col144 | 47 | 0.86  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.11 | 0.06 | 0.38 | 0.00 |
| Col144 | 48 | 1.30  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.16 | 0.06 | 0.43 | 0.00 |
| Col144 | 49 | 0.31  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col144 | 50 | 0.31  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col144 | 51 | 0.17  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 52 | 0.17  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 53 | 2.29  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.28 | 0.00 | 0.28 | 0.00 |
| Col144 | 54 | 1.79  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col144 | 55 | 1.79  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.22 | 0.06 | 0.49 | 0.00 |
| Col144 | 56 | 1.80  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col145 | 1  | 2.41  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.30 | 0.00 | 0.30 | 0.00 |
| Col145 | 2  | 0.31  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col145 | 3  | 1.72  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col145 | 4  | 1.72  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col145 | 5  | 1.88  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col145 | 6  | 1.37  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col145 | 7  | 1.37  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col145 | 8  | -0.81 | 21.18 | 0.26  | 3.32 | -1.12 | 3.07 | 0.04 | 0.08 | 0.33 | 0.00 |
| Col145 | 9  | -0.82 | 21.18 | 0.26  | 3.32 | -1.12 | 3.07 | 0.04 | 0.08 | 0.33 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col145 | 10 | -0.81 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.04 | 0.08 | 0.33 | 0.00 |
| Col145 | 11 | -0.82 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.04 | 0.08 | 0.33 | 0.00 |
| Col145 | 12 | -0.81 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.04 | 0.08 | 0.33 | 0.00 |
| Col145 | 13 | -0.82 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.04 | 0.08 | 0.33 | 0.00 |
| Col145 | 14 | -0.39 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.02 | 0.08 | 0.35 | 0.00 |
| Col145 | 15 | -0.39 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.02 | 0.08 | 0.35 | 0.00 |
| Col145 | 16 | 1.40  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.17 | 0.06 | 0.45 | 0.00 |
| Col145 | 17 | 1.40  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.17 | 0.06 | 0.45 | 0.00 |
| Col145 | 18 | 1.08  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.13 | 0.06 | 0.41 | 0.00 |
| Col145 | 19 | 1.08  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.13 | 0.06 | 0.41 | 0.00 |
| Col145 | 20 | 0.88  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.11 | 0.06 | 0.38 | 0.00 |
| Col145 | 21 | 0.88  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.11 | 0.06 | 0.38 | 0.00 |
| Col145 | 22 | 0.56  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.07 | 0.06 | 0.34 | 0.00 |
| Col145 | 23 | 0.56  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.07 | 0.06 | 0.34 | 0.00 |
| Col145 | 24 | 0.88  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.11 | 0.06 | 0.38 | 0.00 |
| Col145 | 25 | 0.88  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.11 | 0.06 | 0.38 | 0.00 |
| Col145 | 26 | 0.56  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.07 | 0.06 | 0.34 | 0.00 |
| Col145 | 27 | 0.56  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.07 | 0.06 | 0.34 | 0.00 |
| Col145 | 28 | -0.90 | 21.18 | 0.26  | 3.32 | -1.12 | 3.07 | 0.04 | 0.08 | 0.32 | 0.00 |
| Col145 | 29 | -0.90 | 21.18 | 0.26  | 3.32 | -1.12 | 3.07 | 0.04 | 0.08 | 0.32 | 0.00 |
| Col145 | 30 | -0.90 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.04 | 0.08 | 0.32 | 0.00 |
| Col145 | 31 | -0.90 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.04 | 0.08 | 0.32 | 0.00 |
| Col145 | 32 | -0.90 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.04 | 0.08 | 0.32 | 0.00 |
| Col145 | 33 | -0.90 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.04 | 0.08 | 0.32 | 0.00 |
| Col145 | 34 | -0.47 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.02 | 0.08 | 0.34 | 0.00 |
| Col145 | 35 | -0.47 | 21.18 | -0.26 | 3.32 | 1.12  | 3.07 | 0.02 | 0.08 | 0.34 | 0.00 |
| Col145 | 36 | 0.32  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col145 | 37 | 0.32  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col145 | 38 | 1.89  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col145 | 39 | 1.89  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col145 | 40 | 1.37  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col145 | 41 | 1.37  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col145 | 42 | 1.37  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col145 | 43 | 1.37  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col145 | 44 | 0.17  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col145 | 45 | 0.17  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col145 | 46 | 1.95  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.24 | 0.00 | 0.24 | 0.00 |
| Col145 | 47 | 1.06  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.13 | 0.06 | 0.40 | 0.00 |
| Col145 | 48 | 1.06  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.13 | 0.06 | 0.41 | 0.00 |
| Col145 | 49 | 0.31  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col145 | 50 | 0.31  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col145 | 51 | 0.17  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col145 | 52 | 0.17  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col145 | 53 | 2.22  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.28 | 0.00 | 0.28 | 0.00 |
| Col145 | 54 | 1.75  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col145 | 55 | 1.75  | 8.07  | -0.19 | 3.32 | 0.84  | 3.07 | 0.22 | 0.06 | 0.49 | 0.00 |
| Col145 | 56 | 1.75  | 8.07  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col146 | 1  | 2.41  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.30 | 0.00 | 0.30 | 0.00 |
| Col146 | 2  | 0.31  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col146 | 3  | 1.72  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col146 | 4  | 1.72  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col146 | 5  | 1.88  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col146 | 6  | 1.36  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col146 | 7  | 1.36  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col146 | 8  | -0.54 | 21.18 | 0.26  | 3.32 | -1.11 | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col146 | 9  | -1.12 | 21.18 | 0.26  | 3.32 | -1.11 | 3.07 | 0.05 | 0.08 | 0.31 | 0.00 |
| Col146 | 10 | -0.54 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col146 | 11 | -1.12 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.05 | 0.08 | 0.31 | 0.00 |
| Col146 | 12 | -0.54 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col146 | 13 | -1.12 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.05 | 0.08 | 0.31 | 0.00 |
| Col146 | 14 | -0.11 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.01 | 0.08 | 0.35 | 0.00 |
| Col146 | 15 | -0.69 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col146 | 16 | 1.61  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.20 | 0.06 | 0.47 | 0.00 |
| Col146 | 17 | 1.18  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.14 | 0.06 | 0.41 | 0.00 |
| Col146 | 18 | 1.28  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.16 | 0.06 | 0.43 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col46 | 19 | 0.85  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.10 | 0.06 | 0.37 | 0.00 |
| Col46 | 20 | 1.09  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.13 | 0.06 | 0.40 | 0.00 |
| Col46 | 21 | 0.66  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.08 | 0.06 | 0.35 | 0.00 |
| Col46 | 22 | 0.76  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.09 | 0.06 | 0.36 | 0.00 |
| Col46 | 23 | 0.33  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.04 | 0.06 | 0.31 | 0.00 |
| Col46 | 24 | 1.09  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.13 | 0.06 | 0.40 | 0.00 |
| Col46 | 25 | 0.66  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.08 | 0.06 | 0.35 | 0.00 |
| Col46 | 26 | 0.76  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.09 | 0.06 | 0.36 | 0.00 |
| Col46 | 27 | 0.33  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.04 | 0.06 | 0.31 | 0.00 |
| Col46 | 28 | -0.63 | 21.18 | 0.26  | 3.32 | -1.11 | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col46 | 29 | -1.21 | 21.18 | 0.26  | 3.32 | -1.11 | 3.07 | 0.06 | 0.08 | 0.30 | 0.00 |
| Col46 | 30 | -0.63 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col46 | 31 | -1.21 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.06 | 0.08 | 0.30 | 0.00 |
| Col46 | 32 | -0.63 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col46 | 33 | -1.21 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.06 | 0.08 | 0.30 | 0.00 |
| Col46 | 34 | -0.19 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.01 | 0.08 | 0.35 | 0.00 |
| Col46 | 35 | -0.77 | 21.18 | -0.26 | 3.32 | 1.11  | 3.07 | 0.04 | 0.08 | 0.32 | 0.00 |
| Col46 | 36 | 0.32  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col46 | 37 | 0.32  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col46 | 38 | 1.89  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col46 | 39 | 1.89  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col46 | 40 | 1.37  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col46 | 41 | 1.37  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col46 | 42 | 1.37  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col46 | 43 | 1.37  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col46 | 44 | 0.17  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 45 | 0.17  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 46 | 1.99  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.24 | 0.00 | 0.24 | 0.00 |
| Col46 | 47 | 1.30  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.16 | 0.06 | 0.43 | 0.00 |
| Col46 | 48 | 0.86  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.11 | 0.06 | 0.38 | 0.00 |
| Col46 | 49 | 0.31  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col46 | 50 | 0.31  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col46 | 51 | 0.17  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 52 | 0.17  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 53 | 2.24  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.28 | 0.00 | 0.28 | 0.00 |
| Col46 | 54 | 1.76  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col46 | 55 | 1.76  | 8.13  | -0.19 | 3.32 | 0.83  | 3.07 | 0.22 | 0.06 | 0.49 | 0.00 |
| Col46 | 56 | 1.76  | 8.13  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col47 | 1  | 2.41  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.29 | 0.00 | 0.29 | 0.00 |
| Col47 | 2  | 0.31  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col47 | 3  | 1.72  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col47 | 4  | 1.72  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col47 | 5  | 1.88  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col47 | 6  | 1.36  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col47 | 7  | 1.36  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col47 | 8  | -0.54 | 21.18 | 0.25  | 3.32 | -1.08 | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col47 | 9  | -1.12 | 21.18 | 0.25  | 3.32 | -1.08 | 3.07 | 0.05 | 0.08 | 0.30 | 0.00 |
| Col47 | 10 | -0.54 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col47 | 11 | -1.12 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.05 | 0.08 | 0.30 | 0.00 |
| Col47 | 12 | -0.54 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.33 | 0.00 |
| Col47 | 13 | -1.12 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.05 | 0.08 | 0.30 | 0.00 |
| Col47 | 14 | -0.11 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.01 | 0.08 | 0.35 | 0.00 |
| Col47 | 15 | -0.69 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col47 | 16 | 1.61  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.20 | 0.06 | 0.46 | 0.00 |
| Col47 | 17 | 1.18  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.14 | 0.06 | 0.41 | 0.00 |
| Col47 | 18 | 1.28  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.16 | 0.06 | 0.42 | 0.00 |
| Col47 | 19 | 0.85  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.10 | 0.06 | 0.37 | 0.00 |
| Col47 | 20 | 1.09  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.13 | 0.06 | 0.40 | 0.00 |
| Col47 | 21 | 0.66  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.08 | 0.06 | 0.34 | 0.00 |
| Col47 | 22 | 0.76  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.09 | 0.06 | 0.36 | 0.00 |
| Col47 | 23 | 0.33  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.04 | 0.06 | 0.30 | 0.00 |
| Col47 | 24 | 1.09  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.13 | 0.06 | 0.40 | 0.00 |
| Col47 | 25 | 0.66  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.08 | 0.06 | 0.34 | 0.00 |
| Col47 | 26 | 0.76  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.09 | 0.06 | 0.36 | 0.00 |
| Col47 | 27 | 0.33  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.04 | 0.06 | 0.30 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col47 | 28 | -0.63 | 21.18 | 0.25  | 3.32 | -1.08 | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col47 | 29 | -1.21 | 21.18 | 0.25  | 3.32 | -1.08 | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col47 | 30 | -0.63 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col47 | 31 | -1.21 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col47 | 32 | -0.63 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col47 | 33 | -1.21 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col47 | 34 | -0.19 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.01 | 0.08 | 0.34 | 0.00 |
| Col47 | 35 | -0.77 | 21.18 | -0.25 | 3.32 | 1.08  | 3.07 | 0.04 | 0.08 | 0.31 | 0.00 |
| Col47 | 36 | 0.32  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col47 | 37 | 0.32  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col47 | 38 | 1.89  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col47 | 39 | 1.89  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col47 | 40 | 1.37  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col47 | 41 | 1.37  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col47 | 42 | 1.37  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col47 | 43 | 1.37  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.17 | 0.00 | 0.17 | 0.00 |
| Col47 | 44 | 0.17  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 45 | 0.17  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 46 | 1.99  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.24 | 0.00 | 0.24 | 0.00 |
| Col47 | 47 | 1.30  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.16 | 0.06 | 0.42 | 0.00 |
| Col47 | 48 | 0.86  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.10 | 0.06 | 0.37 | 0.00 |
| Col47 | 49 | 0.31  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col47 | 50 | 0.31  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col47 | 51 | 0.17  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 52 | 0.17  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 53 | 2.24  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.27 | 0.00 | 0.27 | 0.00 |
| Col47 | 54 | 1.76  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col47 | 55 | 1.76  | 8.23  | -0.19 | 3.32 | 0.81  | 3.07 | 0.21 | 0.06 | 0.48 | 0.00 |
| Col47 | 56 | 1.76  | 8.23  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col48 | 1  | 2.41  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.29 | 0.00 | 0.29 | 0.00 |
| Col48 | 2  | 0.31  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col48 | 3  | 1.72  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col48 | 4  | 1.72  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col48 | 5  | 1.88  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col48 | 6  | 1.36  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col48 | 7  | 1.36  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col48 | 8  | -0.54 | 21.18 | 0.25  | 3.32 | -1.05 | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col48 | 9  | -1.13 | 21.18 | 0.25  | 3.32 | -1.05 | 3.07 | 0.05 | 0.08 | 0.29 | 0.00 |
| Col48 | 10 | -0.54 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col48 | 11 | -1.13 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.05 | 0.08 | 0.29 | 0.00 |
| Col48 | 12 | -0.54 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.32 | 0.00 |
| Col48 | 13 | -1.13 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.05 | 0.08 | 0.29 | 0.00 |
| Col48 | 14 | -0.11 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.01 | 0.08 | 0.34 | 0.00 |
| Col48 | 15 | -0.69 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.31 | 0.00 |
| Col48 | 16 | 1.61  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.19 | 0.06 | 0.45 | 0.00 |
| Col48 | 17 | 1.17  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.14 | 0.06 | 0.40 | 0.00 |
| Col48 | 18 | 1.28  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.15 | 0.06 | 0.41 | 0.00 |
| Col48 | 19 | 0.85  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.10 | 0.06 | 0.36 | 0.00 |
| Col48 | 20 | 1.09  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.13 | 0.06 | 0.39 | 0.00 |
| Col48 | 21 | 0.65  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.08 | 0.06 | 0.34 | 0.00 |
| Col48 | 22 | 0.76  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.09 | 0.06 | 0.35 | 0.00 |
| Col48 | 23 | 0.33  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.04 | 0.06 | 0.30 | 0.00 |
| Col48 | 24 | 1.09  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.13 | 0.06 | 0.39 | 0.00 |
| Col48 | 25 | 0.65  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.08 | 0.06 | 0.34 | 0.00 |
| Col48 | 26 | 0.76  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.09 | 0.06 | 0.35 | 0.00 |
| Col48 | 27 | 0.33  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.04 | 0.06 | 0.30 | 0.00 |
| Col48 | 28 | -0.63 | 21.18 | 0.25  | 3.32 | -1.05 | 3.07 | 0.03 | 0.08 | 0.31 | 0.00 |
| Col48 | 29 | -1.21 | 21.18 | 0.25  | 3.32 | -1.05 | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col48 | 30 | -0.63 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.31 | 0.00 |
| Col48 | 31 | -1.21 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col48 | 32 | -0.63 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.03 | 0.08 | 0.31 | 0.00 |
| Col48 | 33 | -1.21 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.06 | 0.08 | 0.29 | 0.00 |
| Col48 | 34 | -0.19 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.01 | 0.08 | 0.33 | 0.00 |
| Col48 | 35 | -0.77 | 21.18 | -0.25 | 3.32 | 1.05  | 3.07 | 0.04 | 0.08 | 0.31 | 0.00 |
| Col48 | 36 | 0.32  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |



|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col48 | 37 | 0.32  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col48 | 38 | 1.89  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col48 | 39 | 1.89  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col48 | 40 | 1.37  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col48 | 41 | 1.37  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col48 | 42 | 1.37  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col48 | 43 | 1.37  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col48 | 44 | 0.17  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col48 | 45 | 0.17  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col48 | 46 | 1.99  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.24 | 0.00 | 0.24 | 0.00 |
| Col48 | 47 | 1.30  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.16 | 0.06 | 0.41 | 0.00 |
| Col48 | 48 | 0.86  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.10 | 0.06 | 0.36 | 0.00 |
| Col48 | 49 | 0.31  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col48 | 50 | 0.31  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col48 | 51 | 0.17  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col48 | 52 | 0.17  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col48 | 53 | 2.23  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.27 | 0.00 | 0.27 | 0.00 |
| Col48 | 54 | 1.75  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col48 | 55 | 1.75  | 8.34  | -0.19 | 3.32 | 0.79  | 3.07 | 0.21 | 0.06 | 0.47 | 0.00 |
| Col48 | 56 | 1.75  | 8.34  | 0.00  | 3.32 | 0.00  | 3.07 | 0.21 | 0.00 | 0.21 | 0.00 |
| Col49 | 1  | 2.41  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.29 | 0.00 | 0.29 | 0.00 |
| Col49 | 2  | 0.31  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col49 | 3  | 1.72  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col49 | 4  | 1.72  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col49 | 5  | 1.88  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col49 | 6  | 1.36  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col49 | 7  | 1.36  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col49 | 8  | -0.54 | 21.18 | 0.25  | 3.32 | -1.03 | 3.07 | 0.03 | 0.07 | 0.31 | 0.00 |
| Col49 | 9  | -1.13 | 21.18 | 0.25  | 3.32 | -1.03 | 3.07 | 0.05 | 0.07 | 0.28 | 0.00 |
| Col49 | 10 | -0.54 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.31 | 0.00 |
| Col49 | 11 | -1.13 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.05 | 0.07 | 0.28 | 0.00 |
| Col49 | 12 | -0.54 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.31 | 0.00 |
| Col49 | 13 | -1.13 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.05 | 0.07 | 0.28 | 0.00 |
| Col49 | 14 | -0.11 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col49 | 15 | -0.69 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col49 | 16 | 1.61  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.19 | 0.06 | 0.44 | 0.00 |
| Col49 | 17 | 1.17  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.14 | 0.06 | 0.39 | 0.00 |
| Col49 | 18 | 1.28  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.15 | 0.06 | 0.40 | 0.00 |
| Col49 | 19 | 0.85  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.10 | 0.06 | 0.35 | 0.00 |
| Col49 | 20 | 1.09  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.13 | 0.06 | 0.38 | 0.00 |
| Col49 | 21 | 0.65  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.08 | 0.06 | 0.33 | 0.00 |
| Col49 | 22 | 0.76  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.09 | 0.06 | 0.34 | 0.00 |
| Col49 | 23 | 0.33  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.04 | 0.06 | 0.29 | 0.00 |
| Col49 | 24 | 1.09  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.13 | 0.06 | 0.38 | 0.00 |
| Col49 | 25 | 0.65  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.08 | 0.06 | 0.33 | 0.00 |
| Col49 | 26 | 0.76  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.09 | 0.06 | 0.34 | 0.00 |
| Col49 | 27 | 0.33  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.04 | 0.06 | 0.29 | 0.00 |
| Col49 | 28 | -0.63 | 21.18 | 0.25  | 3.32 | -1.03 | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col49 | 29 | -1.21 | 21.18 | 0.25  | 3.32 | -1.03 | 3.07 | 0.06 | 0.07 | 0.28 | 0.00 |
| Col49 | 30 | -0.63 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col49 | 31 | -1.21 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.06 | 0.07 | 0.28 | 0.00 |
| Col49 | 32 | -0.63 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col49 | 33 | -1.21 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.06 | 0.07 | 0.28 | 0.00 |
| Col49 | 34 | -0.19 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col49 | 35 | -0.77 | 21.18 | -0.25 | 3.32 | 1.03  | 3.07 | 0.04 | 0.07 | 0.30 | 0.00 |
| Col49 | 36 | 0.32  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col49 | 37 | 0.32  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col49 | 38 | 1.89  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col49 | 39 | 1.89  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col49 | 40 | 1.37  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col49 | 41 | 1.37  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col49 | 42 | 1.37  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col49 | 43 | 1.37  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col49 | 44 | 0.17  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col49 | 45 | 0.17  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col149 | 46 | 1.99  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.24 | 0.00 | 0.24 | 0.00 |
| Col149 | 47 | 1.30  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.15 | 0.06 | 0.40 | 0.00 |
| Col149 | 48 | 0.86  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.10 | 0.06 | 0.35 | 0.00 |
| Col149 | 49 | 0.31  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col149 | 50 | 0.31  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col149 | 51 | 0.17  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 52 | 0.17  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 53 | 1.89  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col149 | 54 | 1.49  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.18 | 0.00 | 0.18 | 0.00 |
| Col149 | 55 | 1.49  | 8.44  | -0.19 | 3.32 | 0.77  | 3.07 | 0.18 | 0.06 | 0.43 | 0.00 |
| Col149 | 56 | 1.49  | 8.44  | 0.00  | 3.32 | 0.00  | 3.07 | 0.18 | 0.00 | 0.18 | 0.00 |
| Col150 | 1  | 2.41  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.28 | 0.00 | 0.28 | 0.00 |
| Col150 | 2  | 0.31  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col150 | 3  | 1.71  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col150 | 4  | 1.71  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col150 | 5  | 1.88  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col150 | 6  | 1.36  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col150 | 7  | 1.36  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col150 | 8  | -0.54 | 21.18 | 0.24  | 3.32 | -1.00 | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col150 | 9  | -1.13 | 21.18 | 0.24  | 3.32 | -1.00 | 3.07 | 0.05 | 0.07 | 0.27 | 0.00 |
| Col150 | 10 | -0.54 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col150 | 11 | -1.13 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.05 | 0.07 | 0.27 | 0.00 |
| Col150 | 12 | -0.54 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col150 | 13 | -1.13 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.05 | 0.07 | 0.27 | 0.00 |
| Col150 | 14 | -0.11 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.01 | 0.07 | 0.32 | 0.00 |
| Col150 | 15 | -0.69 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col150 | 16 | 1.61  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.19 | 0.06 | 0.43 | 0.00 |
| Col150 | 17 | 1.17  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.14 | 0.06 | 0.38 | 0.00 |
| Col150 | 18 | 1.28  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.15 | 0.06 | 0.39 | 0.00 |
| Col150 | 19 | 0.85  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.10 | 0.06 | 0.34 | 0.00 |
| Col150 | 20 | 1.09  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.13 | 0.06 | 0.37 | 0.00 |
| Col150 | 21 | 0.65  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.08 | 0.06 | 0.32 | 0.00 |
| Col150 | 22 | 0.76  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.09 | 0.06 | 0.33 | 0.00 |
| Col150 | 23 | 0.33  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.04 | 0.06 | 0.28 | 0.00 |
| Col150 | 24 | 1.09  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.13 | 0.06 | 0.37 | 0.00 |
| Col150 | 25 | 0.65  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.08 | 0.06 | 0.32 | 0.00 |
| Col150 | 26 | 0.76  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.09 | 0.06 | 0.33 | 0.00 |
| Col150 | 27 | 0.33  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.04 | 0.06 | 0.28 | 0.00 |
| Col150 | 28 | -0.63 | 21.18 | 0.24  | 3.32 | -1.00 | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col150 | 29 | -1.21 | 21.18 | 0.24  | 3.32 | -1.00 | 3.07 | 0.06 | 0.07 | 0.27 | 0.00 |
| Col150 | 30 | -0.63 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col150 | 31 | -1.21 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.06 | 0.07 | 0.27 | 0.00 |
| Col150 | 32 | -0.63 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.30 | 0.00 |
| Col150 | 33 | -1.21 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.06 | 0.07 | 0.27 | 0.00 |
| Col150 | 34 | -0.19 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.01 | 0.07 | 0.32 | 0.00 |
| Col150 | 35 | -0.77 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.04 | 0.07 | 0.29 | 0.00 |
| Col150 | 36 | 0.32  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col150 | 37 | 0.32  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col150 | 38 | 1.89  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col150 | 39 | 1.89  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col150 | 40 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col150 | 41 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col150 | 42 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col150 | 43 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col150 | 44 | 0.16  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 45 | 0.16  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 46 | 1.99  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col150 | 47 | 1.30  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.15 | 0.06 | 0.40 | 0.00 |
| Col150 | 48 | 0.86  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.10 | 0.06 | 0.34 | 0.00 |
| Col150 | 49 | 0.31  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col150 | 50 | 0.31  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col150 | 51 | 0.17  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 52 | 0.17  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 53 | 1.72  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col150 | 54 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col150 | 55 | 1.37  | 8.55  | -0.18 | 3.32 | 0.75  | 3.07 | 0.16 | 0.06 | 0.40 | 0.00 |
| Col150 | 56 | 1.37  | 8.55  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col151 | 1  | 2.41  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.28 | 0.00 | 0.28 | 0.00 |
| Col151 | 2  | 0.31  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col151 | 3  | 1.71  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col151 | 4  | 1.71  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col151 | 5  | 1.88  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col151 | 6  | 1.36  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col151 | 7  | 1.36  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col151 | 8  | -0.55 | 21.18 | 0.24  | 3.32 | -0.98 | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col151 | 9  | -1.13 | 21.18 | 0.24  | 3.32 | -0.98 | 3.07 | 0.05 | 0.07 | 0.26 | 0.00 |
| Col151 | 10 | -0.55 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col151 | 11 | -1.13 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.05 | 0.07 | 0.26 | 0.00 |
| Col151 | 12 | -0.55 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col151 | 13 | -1.13 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.05 | 0.07 | 0.26 | 0.00 |
| Col151 | 14 | -0.11 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.01 | 0.07 | 0.31 | 0.00 |
| Col151 | 15 | -0.69 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col151 | 16 | 1.61  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.19 | 0.05 | 0.42 | 0.00 |
| Col151 | 17 | 1.17  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.14 | 0.05 | 0.37 | 0.00 |
| Col151 | 18 | 1.28  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.15 | 0.05 | 0.39 | 0.00 |
| Col151 | 19 | 0.85  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.10 | 0.05 | 0.34 | 0.00 |
| Col151 | 20 | 1.09  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.13 | 0.05 | 0.36 | 0.00 |
| Col151 | 21 | 0.65  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.08 | 0.05 | 0.31 | 0.00 |
| Col151 | 22 | 0.76  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.09 | 0.05 | 0.33 | 0.00 |
| Col151 | 23 | 0.33  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.04 | 0.05 | 0.28 | 0.00 |
| Col151 | 24 | 1.09  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.13 | 0.05 | 0.36 | 0.00 |
| Col151 | 25 | 0.65  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.08 | 0.05 | 0.31 | 0.00 |
| Col151 | 26 | 0.76  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.09 | 0.05 | 0.33 | 0.00 |
| Col151 | 27 | 0.33  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.04 | 0.05 | 0.28 | 0.00 |
| Col151 | 28 | -0.63 | 21.18 | 0.24  | 3.32 | -0.98 | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col151 | 29 | -1.21 | 21.18 | 0.24  | 3.32 | -0.98 | 3.07 | 0.06 | 0.07 | 0.26 | 0.00 |
| Col151 | 30 | -0.63 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col151 | 31 | -1.21 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.06 | 0.07 | 0.26 | 0.00 |
| Col151 | 32 | -0.63 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col151 | 33 | -1.21 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.06 | 0.07 | 0.26 | 0.00 |
| Col151 | 34 | -0.19 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.01 | 0.07 | 0.31 | 0.00 |
| Col151 | 35 | -0.77 | 21.18 | -0.24 | 3.32 | 0.98  | 3.07 | 0.04 | 0.07 | 0.28 | 0.00 |
| Col151 | 36 | 0.31  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col151 | 37 | 0.32  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col151 | 38 | 1.89  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col151 | 39 | 1.89  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.22 | 0.00 | 0.22 | 0.00 |
| Col151 | 40 | 1.37  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col151 | 41 | 1.37  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col151 | 42 | 1.37  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col151 | 43 | 1.37  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col151 | 44 | 0.16  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 45 | 0.16  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 46 | 1.99  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.23 | 0.00 | 0.23 | 0.00 |
| Col151 | 47 | 1.30  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.15 | 0.05 | 0.39 | 0.00 |
| Col151 | 48 | 0.86  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.10 | 0.05 | 0.34 | 0.00 |
| Col151 | 49 | 0.31  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col151 | 50 | 0.31  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col151 | 51 | 0.17  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 52 | 0.17  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 53 | 1.72  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.20 | 0.00 | 0.20 | 0.00 |
| Col151 | 54 | 1.37  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col151 | 55 | 1.37  | 8.65  | -0.18 | 3.32 | 0.73  | 3.07 | 0.16 | 0.05 | 0.40 | 0.00 |
| Col151 | 56 | 1.37  | 8.65  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |

COLUMN REACTIONS:

| Id     | Load |           | In_Plane<br>Horz (k ) | Out_Plane<br>Horz (k ) |
|--------|------|-----------|-----------------------|------------------------|
|        | Id   | Vert (k ) |                       |                        |
| Col140 | 1    | 2.41      | 0.00                  | 0.00                   |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col140 | 2  | 0.31  | 0.00 | 0.00  |
| Col140 | 3  | 1.71  | 0.00 | 0.00  |
| Col140 | 4  | 1.71  | 0.00 | 0.00  |
| Col140 | 5  | 1.88  | 0.00 | 0.00  |
| Col140 | 6  | 1.36  | 0.00 | 0.00  |
| Col140 | 7  | 1.36  | 0.00 | 0.00  |
| Col140 | 8  | -1.13 | 0.00 | -0.24 |
| Col140 | 9  | -0.54 | 0.00 | -0.24 |
| Col140 | 10 | -1.13 | 0.00 | 0.24  |
| Col140 | 11 | -0.54 | 0.00 | 0.24  |
| Col140 | 12 | -1.13 | 0.00 | 0.24  |
| Col140 | 13 | -0.54 | 0.00 | 0.24  |
| Col140 | 14 | -0.69 | 0.00 | 0.24  |
| Col140 | 15 | -0.11 | 0.00 | 0.24  |
| Col140 | 16 | 1.17  | 0.00 | 0.18  |
| Col140 | 17 | 1.61  | 0.00 | 0.18  |
| Col140 | 18 | 0.85  | 0.00 | 0.18  |
| Col140 | 19 | 1.28  | 0.00 | 0.18  |
| Col140 | 20 | 0.65  | 0.00 | 0.18  |
| Col140 | 21 | 1.09  | 0.00 | 0.18  |
| Col140 | 22 | 0.33  | 0.00 | 0.18  |
| Col140 | 23 | 0.76  | 0.00 | 0.18  |
| Col140 | 24 | 0.65  | 0.00 | 0.18  |
| Col140 | 25 | 1.09  | 0.00 | 0.18  |
| Col140 | 26 | 0.33  | 0.00 | 0.18  |
| Col140 | 27 | 0.76  | 0.00 | 0.18  |
| Col140 | 28 | -1.21 | 0.00 | -0.24 |
| Col140 | 29 | -0.63 | 0.00 | -0.24 |
| Col140 | 30 | -1.21 | 0.00 | 0.24  |
| Col140 | 31 | -0.63 | 0.00 | 0.24  |
| Col140 | 32 | -1.21 | 0.00 | 0.24  |
| Col140 | 33 | -0.63 | 0.00 | 0.24  |
| Col140 | 34 | -0.77 | 0.00 | 0.24  |
| Col140 | 35 | -0.19 | 0.00 | 0.24  |
| Col140 | 36 | 0.32  | 0.00 | 0.00  |
| Col140 | 37 | 0.32  | 0.00 | 0.00  |
| Col140 | 38 | 1.89  | 0.00 | 0.00  |
| Col140 | 39 | 1.89  | 0.00 | 0.00  |
| Col140 | 40 | 1.37  | 0.00 | 0.00  |
| Col140 | 41 | 1.37  | 0.00 | 0.00  |
| Col140 | 42 | 1.37  | 0.00 | 0.00  |
| Col140 | 43 | 1.37  | 0.00 | 0.00  |
| Col140 | 44 | 0.16  | 0.00 | 0.00  |
| Col140 | 45 | 0.16  | 0.00 | 0.00  |
| Col140 | 46 | 1.99  | 0.00 | 0.00  |
| Col140 | 47 | 0.86  | 0.00 | 0.18  |
| Col140 | 48 | 1.30  | 0.00 | 0.18  |
| Col140 | 49 | 0.31  | 0.00 | 0.00  |
| Col140 | 50 | 0.31  | 0.00 | 0.00  |
| Col140 | 51 | 0.17  | 0.00 | 0.00  |
| Col140 | 52 | 0.17  | 0.00 | 0.00  |
| Col140 | 53 | 1.73  | 0.00 | 0.00  |
| Col140 | 54 | 1.37  | 0.00 | 0.00  |
| Col140 | 55 | 1.37  | 0.00 | 0.18  |
| Col140 | 56 | 1.38  | 0.00 | 0.00  |
| Col141 | 1  | 2.41  | 0.00 | 0.00  |
| Col141 | 2  | 0.31  | 0.00 | 0.00  |
| Col141 | 3  | 1.72  | 0.00 | 0.00  |
| Col141 | 4  | 1.72  | 0.00 | 0.00  |
| Col141 | 5  | 1.88  | 0.00 | 0.00  |
| Col141 | 6  | 1.36  | 0.00 | 0.00  |
| Col141 | 7  | 1.36  | 0.00 | 0.00  |
| Col141 | 8  | -1.13 | 0.00 | -0.25 |
| Col141 | 9  | -0.54 | 0.00 | -0.25 |
| Col141 | 10 | -1.13 | 0.00 | 0.25  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col41 | 11 | -0.54 | 0.00 | 0.25  |
| Col41 | 12 | -1.13 | 0.00 | 0.25  |
| Col41 | 13 | -0.54 | 0.00 | 0.25  |
| Col41 | 14 | -0.69 | 0.00 | 0.25  |
| Col41 | 15 | -0.11 | 0.00 | 0.25  |
| Col41 | 16 | 1.17  | 0.00 | 0.19  |
| Col41 | 17 | 1.61  | 0.00 | 0.19  |
| Col41 | 18 | 0.85  | 0.00 | 0.19  |
| Col41 | 19 | 1.28  | 0.00 | 0.19  |
| Col41 | 20 | 0.65  | 0.00 | 0.19  |
| Col41 | 21 | 1.09  | 0.00 | 0.19  |
| Col41 | 22 | 0.33  | 0.00 | 0.19  |
| Col41 | 23 | 0.76  | 0.00 | 0.19  |
| Col41 | 24 | 0.65  | 0.00 | 0.19  |
| Col41 | 25 | 1.09  | 0.00 | 0.19  |
| Col41 | 26 | 0.33  | 0.00 | 0.19  |
| Col41 | 27 | 0.76  | 0.00 | 0.19  |
| Col41 | 28 | -1.21 | 0.00 | -0.25 |
| Col41 | 29 | -0.63 | 0.00 | -0.25 |
| Col41 | 30 | -1.21 | 0.00 | 0.25  |
| Col41 | 31 | -0.63 | 0.00 | 0.25  |
| Col41 | 32 | -1.21 | 0.00 | 0.25  |
| Col41 | 33 | -0.63 | 0.00 | 0.25  |
| Col41 | 34 | -0.77 | 0.00 | 0.25  |
| Col41 | 35 | -0.19 | 0.00 | 0.25  |
| Col41 | 36 | 0.32  | 0.00 | 0.00  |
| Col41 | 37 | 0.32  | 0.00 | 0.00  |
| Col41 | 38 | 1.89  | 0.00 | 0.00  |
| Col41 | 39 | 1.89  | 0.00 | 0.00  |
| Col41 | 40 | 1.37  | 0.00 | 0.00  |
| Col41 | 41 | 1.37  | 0.00 | 0.00  |
| Col41 | 42 | 1.37  | 0.00 | 0.00  |
| Col41 | 43 | 1.37  | 0.00 | 0.00  |
| Col41 | 44 | 0.17  | 0.00 | 0.00  |
| Col41 | 45 | 0.17  | 0.00 | 0.00  |
| Col41 | 46 | 1.99  | 0.00 | 0.00  |
| Col41 | 47 | 0.86  | 0.00 | 0.19  |
| Col41 | 48 | 1.30  | 0.00 | 0.19  |
| Col41 | 49 | 0.31  | 0.00 | 0.00  |
| Col41 | 50 | 0.31  | 0.00 | 0.00  |
| Col41 | 51 | 0.17  | 0.00 | 0.00  |
| Col41 | 52 | 0.17  | 0.00 | 0.00  |
| Col41 | 53 | 2.10  | 0.00 | 0.00  |
| Col41 | 54 | 1.65  | 0.00 | 0.00  |
| Col41 | 55 | 1.65  | 0.00 | 0.19  |
| Col41 | 56 | 1.65  | 0.00 | 0.00  |
| Col42 | 1  | 2.41  | 0.00 | 0.00  |
| Col42 | 2  | 0.31  | 0.00 | 0.00  |
| Col42 | 3  | 1.72  | 0.00 | 0.00  |
| Col42 | 4  | 1.72  | 0.00 | 0.00  |
| Col42 | 5  | 1.88  | 0.00 | 0.00  |
| Col42 | 6  | 1.36  | 0.00 | 0.00  |
| Col42 | 7  | 1.36  | 0.00 | 0.00  |
| Col42 | 8  | -1.13 | 0.00 | -0.25 |
| Col42 | 9  | -0.54 | 0.00 | -0.25 |
| Col42 | 10 | -1.13 | 0.00 | 0.25  |
| Col42 | 11 | -0.54 | 0.00 | 0.25  |
| Col42 | 12 | -1.13 | 0.00 | 0.25  |
| Col42 | 13 | -0.54 | 0.00 | 0.25  |
| Col42 | 14 | -0.69 | 0.00 | 0.25  |
| Col42 | 15 | -0.11 | 0.00 | 0.25  |
| Col42 | 16 | 1.17  | 0.00 | 0.19  |
| Col42 | 17 | 1.61  | 0.00 | 0.19  |
| Col42 | 18 | 0.85  | 0.00 | 0.19  |
| Col42 | 19 | 1.28  | 0.00 | 0.19  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col42 | 20 | 0.65  | 0.00 | 0.19  |
| Col42 | 21 | 1.09  | 0.00 | 0.19  |
| Col42 | 22 | 0.33  | 0.00 | 0.19  |
| Col42 | 23 | 0.76  | 0.00 | 0.19  |
| Col42 | 24 | 0.65  | 0.00 | 0.19  |
| Col42 | 25 | 1.09  | 0.00 | 0.19  |
| Col42 | 26 | 0.33  | 0.00 | 0.19  |
| Col42 | 27 | 0.76  | 0.00 | 0.19  |
| Col42 | 28 | -1.21 | 0.00 | -0.25 |
| Col42 | 29 | -0.63 | 0.00 | -0.25 |
| Col42 | 30 | -1.21 | 0.00 | 0.25  |
| Col42 | 31 | -0.63 | 0.00 | 0.25  |
| Col42 | 32 | -1.21 | 0.00 | 0.25  |
| Col42 | 33 | -0.63 | 0.00 | 0.25  |
| Col42 | 34 | -0.77 | 0.00 | 0.25  |
| Col42 | 35 | -0.19 | 0.00 | 0.25  |
| Col42 | 36 | 0.32  | 0.00 | 0.00  |
| Col42 | 37 | 0.32  | 0.00 | 0.00  |
| Col42 | 38 | 1.89  | 0.00 | 0.00  |
| Col42 | 39 | 1.89  | 0.00 | 0.00  |
| Col42 | 40 | 1.37  | 0.00 | 0.00  |
| Col42 | 41 | 1.37  | 0.00 | 0.00  |
| Col42 | 42 | 1.37  | 0.00 | 0.00  |
| Col42 | 43 | 1.37  | 0.00 | 0.00  |
| Col42 | 44 | 0.17  | 0.00 | 0.00  |
| Col42 | 45 | 0.17  | 0.00 | 0.00  |
| Col42 | 46 | 1.99  | 0.00 | 0.00  |
| Col42 | 47 | 0.86  | 0.00 | 0.19  |
| Col42 | 48 | 1.30  | 0.00 | 0.19  |
| Col42 | 49 | 0.31  | 0.00 | 0.00  |
| Col42 | 50 | 0.31  | 0.00 | 0.00  |
| Col42 | 51 | 0.17  | 0.00 | 0.00  |
| Col42 | 52 | 0.17  | 0.00 | 0.00  |
| Col42 | 53 | 2.29  | 0.00 | 0.00  |
| Col42 | 54 | 1.79  | 0.00 | 0.00  |
| Col42 | 55 | 1.79  | 0.00 | 0.19  |
| Col42 | 56 | 1.79  | 0.00 | 0.00  |
| Col43 | 1  | 2.41  | 0.00 | 0.00  |
| Col43 | 2  | 0.31  | 0.00 | 0.00  |
| Col43 | 3  | 1.72  | 0.00 | 0.00  |
| Col43 | 4  | 1.72  | 0.00 | 0.00  |
| Col43 | 5  | 1.88  | 0.00 | 0.00  |
| Col43 | 6  | 1.36  | 0.00 | 0.00  |
| Col43 | 7  | 1.36  | 0.00 | 0.00  |
| Col43 | 8  | -1.12 | 0.00 | -0.25 |
| Col43 | 9  | -0.54 | 0.00 | -0.25 |
| Col43 | 10 | -1.12 | 0.00 | 0.25  |
| Col43 | 11 | -0.54 | 0.00 | 0.25  |
| Col43 | 12 | -1.12 | 0.00 | 0.25  |
| Col43 | 13 | -0.54 | 0.00 | 0.25  |
| Col43 | 14 | -0.69 | 0.00 | 0.25  |
| Col43 | 15 | -0.11 | 0.00 | 0.25  |
| Col43 | 16 | 1.18  | 0.00 | 0.19  |
| Col43 | 17 | 1.61  | 0.00 | 0.19  |
| Col43 | 18 | 0.85  | 0.00 | 0.19  |
| Col43 | 19 | 1.28  | 0.00 | 0.19  |
| Col43 | 20 | 0.66  | 0.00 | 0.19  |
| Col43 | 21 | 1.09  | 0.00 | 0.19  |
| Col43 | 22 | 0.33  | 0.00 | 0.19  |
| Col43 | 23 | 0.76  | 0.00 | 0.19  |
| Col43 | 24 | 0.66  | 0.00 | 0.19  |
| Col43 | 25 | 1.09  | 0.00 | 0.19  |
| Col43 | 26 | 0.33  | 0.00 | 0.19  |
| Col43 | 27 | 0.76  | 0.00 | 0.19  |
| Col43 | 28 | -1.21 | 0.00 | -0.25 |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col143 | 29 | -0.63 | 0.00 | -0.25 |
| Col143 | 30 | -1.21 | 0.00 | 0.25  |
| Col143 | 31 | -0.63 | 0.00 | 0.25  |
| Col143 | 32 | -1.21 | 0.00 | 0.25  |
| Col143 | 33 | -0.63 | 0.00 | 0.25  |
| Col143 | 34 | -0.77 | 0.00 | 0.25  |
| Col143 | 35 | -0.19 | 0.00 | 0.25  |
| Col143 | 36 | 0.32  | 0.00 | 0.00  |
| Col143 | 37 | 0.32  | 0.00 | 0.00  |
| Col143 | 38 | 1.89  | 0.00 | 0.00  |
| Col143 | 39 | 1.89  | 0.00 | 0.00  |
| Col143 | 40 | 1.37  | 0.00 | 0.00  |
| Col143 | 41 | 1.37  | 0.00 | 0.00  |
| Col143 | 42 | 1.37  | 0.00 | 0.00  |
| Col143 | 43 | 1.37  | 0.00 | 0.00  |
| Col143 | 44 | 0.17  | 0.00 | 0.00  |
| Col143 | 45 | 0.17  | 0.00 | 0.00  |
| Col143 | 46 | 1.99  | 0.00 | 0.00  |
| Col143 | 47 | 0.86  | 0.00 | 0.19  |
| Col143 | 48 | 1.30  | 0.00 | 0.19  |
| Col143 | 49 | 0.31  | 0.00 | 0.00  |
| Col143 | 50 | 0.31  | 0.00 | 0.00  |
| Col143 | 51 | 0.17  | 0.00 | 0.00  |
| Col143 | 52 | 0.17  | 0.00 | 0.00  |
| Col143 | 53 | 2.29  | 0.00 | 0.00  |
| Col143 | 54 | 1.79  | 0.00 | 0.00  |
| Col143 | 55 | 1.79  | 0.00 | 0.19  |
| Col143 | 56 | 1.79  | 0.00 | 0.00  |
| Col144 | 1  | 2.41  | 0.00 | 0.00  |
| Col144 | 2  | 0.31  | 0.00 | 0.00  |
| Col144 | 3  | 1.72  | 0.00 | 0.00  |
| Col144 | 4  | 1.72  | 0.00 | 0.00  |
| Col144 | 5  | 1.88  | 0.00 | 0.00  |
| Col144 | 6  | 1.36  | 0.00 | 0.00  |
| Col144 | 7  | 1.36  | 0.00 | 0.00  |
| Col144 | 8  | -1.12 | 0.00 | -0.26 |
| Col144 | 9  | -0.54 | 0.00 | -0.26 |
| Col144 | 10 | -1.12 | 0.00 | 0.26  |
| Col144 | 11 | -0.54 | 0.00 | 0.26  |
| Col144 | 12 | -1.12 | 0.00 | 0.26  |
| Col144 | 13 | -0.54 | 0.00 | 0.26  |
| Col144 | 14 | -0.69 | 0.00 | 0.26  |
| Col144 | 15 | -0.11 | 0.00 | 0.26  |
| Col144 | 16 | 1.18  | 0.00 | 0.19  |
| Col144 | 17 | 1.61  | 0.00 | 0.19  |
| Col144 | 18 | 0.85  | 0.00 | 0.19  |
| Col144 | 19 | 1.28  | 0.00 | 0.19  |
| Col144 | 20 | 0.66  | 0.00 | 0.19  |
| Col144 | 21 | 1.09  | 0.00 | 0.19  |
| Col144 | 22 | 0.33  | 0.00 | 0.19  |
| Col144 | 23 | 0.76  | 0.00 | 0.19  |
| Col144 | 24 | 0.66  | 0.00 | 0.19  |
| Col144 | 25 | 1.09  | 0.00 | 0.19  |
| Col144 | 26 | 0.33  | 0.00 | 0.19  |
| Col144 | 27 | 0.76  | 0.00 | 0.19  |
| Col144 | 28 | -1.21 | 0.00 | -0.26 |
| Col144 | 29 | -0.63 | 0.00 | -0.26 |
| Col144 | 30 | -1.21 | 0.00 | 0.26  |
| Col144 | 31 | -0.63 | 0.00 | 0.26  |
| Col144 | 32 | -1.21 | 0.00 | 0.26  |
| Col144 | 33 | -0.63 | 0.00 | 0.26  |
| Col144 | 34 | -0.77 | 0.00 | 0.26  |
| Col144 | 35 | -0.19 | 0.00 | 0.26  |
| Col144 | 36 | 0.32  | 0.00 | 0.00  |
| Col144 | 37 | 0.32  | 0.00 | 0.00  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col44 | 38 | 1.89  | 0.00 | 0.00  |
| Col44 | 39 | 1.89  | 0.00 | 0.00  |
| Col44 | 40 | 1.37  | 0.00 | 0.00  |
| Col44 | 41 | 1.37  | 0.00 | 0.00  |
| Col44 | 42 | 1.37  | 0.00 | 0.00  |
| Col44 | 43 | 1.37  | 0.00 | 0.00  |
| Col44 | 44 | 0.17  | 0.00 | 0.00  |
| Col44 | 45 | 0.17  | 0.00 | 0.00  |
| Col44 | 46 | 1.99  | 0.00 | 0.00  |
| Col44 | 47 | 0.86  | 0.00 | 0.19  |
| Col44 | 48 | 1.30  | 0.00 | 0.19  |
| Col44 | 49 | 0.31  | 0.00 | 0.00  |
| Col44 | 50 | 0.31  | 0.00 | 0.00  |
| Col44 | 51 | 0.17  | 0.00 | 0.00  |
| Col44 | 52 | 0.17  | 0.00 | 0.00  |
| Col44 | 53 | 2.29  | 0.00 | 0.00  |
| Col44 | 54 | 1.79  | 0.00 | 0.00  |
| Col44 | 55 | 1.79  | 0.00 | 0.19  |
| Col44 | 56 | 1.80  | 0.00 | 0.00  |
| Col45 | 1  | 2.41  | 0.00 | 0.00  |
| Col45 | 2  | 0.31  | 0.00 | 0.00  |
| Col45 | 3  | 1.72  | 0.00 | 0.00  |
| Col45 | 4  | 1.72  | 0.00 | 0.00  |
| Col45 | 5  | 1.88  | 0.00 | 0.00  |
| Col45 | 6  | 1.37  | 0.00 | 0.00  |
| Col45 | 7  | 1.37  | 0.00 | 0.00  |
| Col45 | 8  | -0.81 | 0.00 | -0.26 |
| Col45 | 9  | -0.82 | 0.00 | -0.26 |
| Col45 | 10 | -0.81 | 0.00 | 0.26  |
| Col45 | 11 | -0.82 | 0.00 | 0.26  |
| Col45 | 12 | -0.81 | 0.00 | 0.26  |
| Col45 | 13 | -0.82 | 0.00 | 0.26  |
| Col45 | 14 | -0.39 | 0.00 | 0.26  |
| Col45 | 15 | -0.39 | 0.00 | 0.26  |
| Col45 | 16 | 1.40  | 0.00 | 0.19  |
| Col45 | 17 | 1.40  | 0.00 | 0.19  |
| Col45 | 18 | 1.08  | 0.00 | 0.19  |
| Col45 | 19 | 1.08  | 0.00 | 0.19  |
| Col45 | 20 | 0.88  | 0.00 | 0.19  |
| Col45 | 21 | 0.88  | 0.00 | 0.19  |
| Col45 | 22 | 0.56  | 0.00 | 0.19  |
| Col45 | 23 | 0.56  | 0.00 | 0.19  |
| Col45 | 24 | 0.88  | 0.00 | 0.19  |
| Col45 | 25 | 0.88  | 0.00 | 0.19  |
| Col45 | 26 | 0.56  | 0.00 | 0.19  |
| Col45 | 27 | 0.56  | 0.00 | 0.19  |
| Col45 | 28 | -0.90 | 0.00 | -0.26 |
| Col45 | 29 | -0.90 | 0.00 | -0.26 |
| Col45 | 30 | -0.90 | 0.00 | 0.26  |
| Col45 | 31 | -0.90 | 0.00 | 0.26  |
| Col45 | 32 | -0.90 | 0.00 | 0.26  |
| Col45 | 33 | -0.90 | 0.00 | 0.26  |
| Col45 | 34 | -0.47 | 0.00 | 0.26  |
| Col45 | 35 | -0.47 | 0.00 | 0.26  |
| Col45 | 36 | 0.32  | 0.00 | 0.00  |
| Col45 | 37 | 0.32  | 0.00 | 0.00  |
| Col45 | 38 | 1.89  | 0.00 | 0.00  |
| Col45 | 39 | 1.89  | 0.00 | 0.00  |
| Col45 | 40 | 1.37  | 0.00 | 0.00  |
| Col45 | 41 | 1.37  | 0.00 | 0.00  |
| Col45 | 42 | 1.37  | 0.00 | 0.00  |
| Col45 | 43 | 1.37  | 0.00 | 0.00  |
| Col45 | 44 | 0.17  | 0.00 | 0.00  |
| Col45 | 45 | 0.17  | 0.00 | 0.00  |
| Col45 | 46 | 1.95  | 0.00 | 0.00  |



|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col45 | 47 | 1.06  | 0.00 | 0.19  |
| Col45 | 48 | 1.06  | 0.00 | 0.19  |
| Col45 | 49 | 0.31  | 0.00 | 0.00  |
| Col45 | 50 | 0.31  | 0.00 | 0.00  |
| Col45 | 51 | 0.17  | 0.00 | 0.00  |
| Col45 | 52 | 0.17  | 0.00 | 0.00  |
| Col45 | 53 | 2.22  | 0.00 | 0.00  |
| Col45 | 54 | 1.75  | 0.00 | 0.00  |
| Col45 | 55 | 1.75  | 0.00 | 0.19  |
| Col45 | 56 | 1.75  | 0.00 | 0.00  |
| Col46 | 1  | 2.41  | 0.00 | 0.00  |
| Col46 | 2  | 0.31  | 0.00 | 0.00  |
| Col46 | 3  | 1.72  | 0.00 | 0.00  |
| Col46 | 4  | 1.72  | 0.00 | 0.00  |
| Col46 | 5  | 1.88  | 0.00 | 0.00  |
| Col46 | 6  | 1.36  | 0.00 | 0.00  |
| Col46 | 7  | 1.36  | 0.00 | 0.00  |
| Col46 | 8  | -0.54 | 0.00 | -0.26 |
| Col46 | 9  | -1.12 | 0.00 | -0.26 |
| Col46 | 10 | -0.54 | 0.00 | 0.26  |
| Col46 | 11 | -1.12 | 0.00 | 0.26  |
| Col46 | 12 | -0.54 | 0.00 | 0.26  |
| Col46 | 13 | -1.12 | 0.00 | 0.26  |
| Col46 | 14 | -0.11 | 0.00 | 0.26  |
| Col46 | 15 | -0.69 | 0.00 | 0.26  |
| Col46 | 16 | 1.61  | 0.00 | 0.19  |
| Col46 | 17 | 1.18  | 0.00 | 0.19  |
| Col46 | 18 | 1.28  | 0.00 | 0.19  |
| Col46 | 19 | 0.85  | 0.00 | 0.19  |
| Col46 | 20 | 1.09  | 0.00 | 0.19  |
| Col46 | 21 | 0.66  | 0.00 | 0.19  |
| Col46 | 22 | 0.76  | 0.00 | 0.19  |
| Col46 | 23 | 0.33  | 0.00 | 0.19  |
| Col46 | 24 | 1.09  | 0.00 | 0.19  |
| Col46 | 25 | 0.66  | 0.00 | 0.19  |
| Col46 | 26 | 0.76  | 0.00 | 0.19  |
| Col46 | 27 | 0.33  | 0.00 | 0.19  |
| Col46 | 28 | -0.63 | 0.00 | -0.26 |
| Col46 | 29 | -1.21 | 0.00 | -0.26 |
| Col46 | 30 | -0.63 | 0.00 | 0.26  |
| Col46 | 31 | -1.21 | 0.00 | 0.26  |
| Col46 | 32 | -0.63 | 0.00 | 0.26  |
| Col46 | 33 | -1.21 | 0.00 | 0.26  |
| Col46 | 34 | -0.19 | 0.00 | 0.26  |
| Col46 | 35 | -0.77 | 0.00 | 0.26  |
| Col46 | 36 | 0.32  | 0.00 | 0.00  |
| Col46 | 37 | 0.32  | 0.00 | 0.00  |
| Col46 | 38 | 1.89  | 0.00 | 0.00  |
| Col46 | 39 | 1.89  | 0.00 | 0.00  |
| Col46 | 40 | 1.37  | 0.00 | 0.00  |
| Col46 | 41 | 1.37  | 0.00 | 0.00  |
| Col46 | 42 | 1.37  | 0.00 | 0.00  |
| Col46 | 43 | 1.37  | 0.00 | 0.00  |
| Col46 | 44 | 0.17  | 0.00 | 0.00  |
| Col46 | 45 | 0.17  | 0.00 | 0.00  |
| Col46 | 46 | 1.99  | 0.00 | 0.00  |
| Col46 | 47 | 1.30  | 0.00 | 0.19  |
| Col46 | 48 | 0.86  | 0.00 | 0.19  |
| Col46 | 49 | 0.31  | 0.00 | 0.00  |
| Col46 | 50 | 0.31  | 0.00 | 0.00  |
| Col46 | 51 | 0.17  | 0.00 | 0.00  |
| Col46 | 52 | 0.17  | 0.00 | 0.00  |
| Col46 | 53 | 2.24  | 0.00 | 0.00  |
| Col46 | 54 | 1.76  | 0.00 | 0.00  |
| Col46 | 55 | 1.76  | 0.00 | 0.19  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col46 | 56 | 1.76  | 0.00 | 0.00  |
| Col47 | 1  | 2.41  | 0.00 | 0.00  |
| Col47 | 2  | 0.31  | 0.00 | 0.00  |
| Col47 | 3  | 1.72  | 0.00 | 0.00  |
| Col47 | 4  | 1.72  | 0.00 | 0.00  |
| Col47 | 5  | 1.88  | 0.00 | 0.00  |
| Col47 | 6  | 1.36  | 0.00 | 0.00  |
| Col47 | 7  | 1.36  | 0.00 | 0.00  |
| Col47 | 8  | -0.54 | 0.00 | -0.25 |
| Col47 | 9  | -1.12 | 0.00 | -0.25 |
| Col47 | 10 | -0.54 | 0.00 | 0.25  |
| Col47 | 11 | -1.12 | 0.00 | 0.25  |
| Col47 | 12 | -0.54 | 0.00 | 0.25  |
| Col47 | 13 | -1.12 | 0.00 | 0.25  |
| Col47 | 14 | -0.11 | 0.00 | 0.25  |
| Col47 | 15 | -0.69 | 0.00 | 0.25  |
| Col47 | 16 | 1.61  | 0.00 | 0.19  |
| Col47 | 17 | 1.18  | 0.00 | 0.19  |
| Col47 | 18 | 1.28  | 0.00 | 0.19  |
| Col47 | 19 | 0.85  | 0.00 | 0.19  |
| Col47 | 20 | 1.09  | 0.00 | 0.19  |
| Col47 | 21 | 0.66  | 0.00 | 0.19  |
| Col47 | 22 | 0.76  | 0.00 | 0.19  |
| Col47 | 23 | 0.33  | 0.00 | 0.19  |
| Col47 | 24 | 1.09  | 0.00 | 0.19  |
| Col47 | 25 | 0.66  | 0.00 | 0.19  |
| Col47 | 26 | 0.76  | 0.00 | 0.19  |
| Col47 | 27 | 0.33  | 0.00 | 0.19  |
| Col47 | 28 | -0.63 | 0.00 | -0.25 |
| Col47 | 29 | -1.21 | 0.00 | -0.25 |
| Col47 | 30 | -0.63 | 0.00 | 0.25  |
| Col47 | 31 | -1.21 | 0.00 | 0.25  |
| Col47 | 32 | -0.63 | 0.00 | 0.25  |
| Col47 | 33 | -1.21 | 0.00 | 0.25  |
| Col47 | 34 | -0.19 | 0.00 | 0.25  |
| Col47 | 35 | -0.77 | 0.00 | 0.25  |
| Col47 | 36 | 0.32  | 0.00 | 0.00  |
| Col47 | 37 | 0.32  | 0.00 | 0.00  |
| Col47 | 38 | 1.89  | 0.00 | 0.00  |
| Col47 | 39 | 1.89  | 0.00 | 0.00  |
| Col47 | 40 | 1.37  | 0.00 | 0.00  |
| Col47 | 41 | 1.37  | 0.00 | 0.00  |
| Col47 | 42 | 1.37  | 0.00 | 0.00  |
| Col47 | 43 | 1.37  | 0.00 | 0.00  |
| Col47 | 44 | 0.17  | 0.00 | 0.00  |
| Col47 | 45 | 0.17  | 0.00 | 0.00  |
| Col47 | 46 | 1.99  | 0.00 | 0.00  |
| Col47 | 47 | 1.30  | 0.00 | 0.19  |
| Col47 | 48 | 0.86  | 0.00 | 0.19  |
| Col47 | 49 | 0.31  | 0.00 | 0.00  |
| Col47 | 50 | 0.31  | 0.00 | 0.00  |
| Col47 | 51 | 0.17  | 0.00 | 0.00  |
| Col47 | 52 | 0.17  | 0.00 | 0.00  |
| Col47 | 53 | 2.24  | 0.00 | 0.00  |
| Col47 | 54 | 1.76  | 0.00 | 0.00  |
| Col47 | 55 | 1.76  | 0.00 | 0.19  |
| Col47 | 56 | 1.76  | 0.00 | 0.00  |
| Col48 | 1  | 2.41  | 0.00 | 0.00  |
| Col48 | 2  | 0.31  | 0.00 | 0.00  |
| Col48 | 3  | 1.72  | 0.00 | 0.00  |
| Col48 | 4  | 1.72  | 0.00 | 0.00  |
| Col48 | 5  | 1.88  | 0.00 | 0.00  |
| Col48 | 6  | 1.36  | 0.00 | 0.00  |
| Col48 | 7  | 1.36  | 0.00 | 0.00  |
| Col48 | 8  | -0.54 | 0.00 | -0.25 |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col48 | 9  | -1.13 | 0.00 | -0.25 |
| Col48 | 10 | -0.54 | 0.00 | 0.25  |
| Col48 | 11 | -1.13 | 0.00 | 0.25  |
| Col48 | 12 | -0.54 | 0.00 | 0.25  |
| Col48 | 13 | -1.13 | 0.00 | 0.25  |
| Col48 | 14 | -0.11 | 0.00 | 0.25  |
| Col48 | 15 | -0.69 | 0.00 | 0.25  |
| Col48 | 16 | 1.61  | 0.00 | 0.19  |
| Col48 | 17 | 1.17  | 0.00 | 0.19  |
| Col48 | 18 | 1.28  | 0.00 | 0.19  |
| Col48 | 19 | 0.85  | 0.00 | 0.19  |
| Col48 | 20 | 1.09  | 0.00 | 0.19  |
| Col48 | 21 | 0.65  | 0.00 | 0.19  |
| Col48 | 22 | 0.76  | 0.00 | 0.19  |
| Col48 | 23 | 0.33  | 0.00 | 0.19  |
| Col48 | 24 | 1.09  | 0.00 | 0.19  |
| Col48 | 25 | 0.65  | 0.00 | 0.19  |
| Col48 | 26 | 0.76  | 0.00 | 0.19  |
| Col48 | 27 | 0.33  | 0.00 | 0.19  |
| Col48 | 28 | -0.63 | 0.00 | -0.25 |
| Col48 | 29 | -1.21 | 0.00 | -0.25 |
| Col48 | 30 | -0.63 | 0.00 | 0.25  |
| Col48 | 31 | -1.21 | 0.00 | 0.25  |
| Col48 | 32 | -0.63 | 0.00 | 0.25  |
| Col48 | 33 | -1.21 | 0.00 | 0.25  |
| Col48 | 34 | -0.19 | 0.00 | 0.25  |
| Col48 | 35 | -0.77 | 0.00 | 0.25  |
| Col48 | 36 | 0.32  | 0.00 | 0.00  |
| Col48 | 37 | 0.32  | 0.00 | 0.00  |
| Col48 | 38 | 1.89  | 0.00 | 0.00  |
| Col48 | 39 | 1.89  | 0.00 | 0.00  |
| Col48 | 40 | 1.37  | 0.00 | 0.00  |
| Col48 | 41 | 1.37  | 0.00 | 0.00  |
| Col48 | 42 | 1.37  | 0.00 | 0.00  |
| Col48 | 43 | 1.37  | 0.00 | 0.00  |
| Col48 | 44 | 0.17  | 0.00 | 0.00  |
| Col48 | 45 | 0.17  | 0.00 | 0.00  |
| Col48 | 46 | 1.99  | 0.00 | 0.00  |
| Col48 | 47 | 1.30  | 0.00 | 0.19  |
| Col48 | 48 | 0.86  | 0.00 | 0.19  |
| Col48 | 49 | 0.31  | 0.00 | 0.00  |
| Col48 | 50 | 0.31  | 0.00 | 0.00  |
| Col48 | 51 | 0.17  | 0.00 | 0.00  |
| Col48 | 52 | 0.17  | 0.00 | 0.00  |
| Col48 | 53 | 2.23  | 0.00 | 0.00  |
| Col48 | 54 | 1.75  | 0.00 | 0.00  |
| Col48 | 55 | 1.75  | 0.00 | 0.19  |
| Col48 | 56 | 1.75  | 0.00 | 0.00  |
| Col49 | 1  | 2.41  | 0.00 | 0.00  |
| Col49 | 2  | 0.31  | 0.00 | 0.00  |
| Col49 | 3  | 1.72  | 0.00 | 0.00  |
| Col49 | 4  | 1.72  | 0.00 | 0.00  |
| Col49 | 5  | 1.88  | 0.00 | 0.00  |
| Col49 | 6  | 1.36  | 0.00 | 0.00  |
| Col49 | 7  | 1.36  | 0.00 | 0.00  |
| Col49 | 8  | -0.54 | 0.00 | -0.25 |
| Col49 | 9  | -1.13 | 0.00 | -0.25 |
| Col49 | 10 | -0.54 | 0.00 | 0.25  |
| Col49 | 11 | -1.13 | 0.00 | 0.25  |
| Col49 | 12 | -0.54 | 0.00 | 0.25  |
| Col49 | 13 | -1.13 | 0.00 | 0.25  |
| Col49 | 14 | -0.11 | 0.00 | 0.25  |
| Col49 | 15 | -0.69 | 0.00 | 0.25  |
| Col49 | 16 | 1.61  | 0.00 | 0.19  |
| Col49 | 17 | 1.17  | 0.00 | 0.19  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col149 | 18 | 1.28  | 0.00 | 0.19  |
| Col149 | 19 | 0.85  | 0.00 | 0.19  |
| Col149 | 20 | 1.09  | 0.00 | 0.19  |
| Col149 | 21 | 0.65  | 0.00 | 0.19  |
| Col149 | 22 | 0.76  | 0.00 | 0.19  |
| Col149 | 23 | 0.33  | 0.00 | 0.19  |
| Col149 | 24 | 1.09  | 0.00 | 0.19  |
| Col149 | 25 | 0.65  | 0.00 | 0.19  |
| Col149 | 26 | 0.76  | 0.00 | 0.19  |
| Col149 | 27 | 0.33  | 0.00 | 0.19  |
| Col149 | 28 | -0.63 | 0.00 | -0.25 |
| Col149 | 29 | -1.21 | 0.00 | -0.25 |
| Col149 | 30 | -0.63 | 0.00 | 0.25  |
| Col149 | 31 | -1.21 | 0.00 | 0.25  |
| Col149 | 32 | -0.63 | 0.00 | 0.25  |
| Col149 | 33 | -1.21 | 0.00 | 0.25  |
| Col149 | 34 | -0.19 | 0.00 | 0.25  |
| Col149 | 35 | -0.77 | 0.00 | 0.25  |
| Col149 | 36 | 0.32  | 0.00 | 0.00  |
| Col149 | 37 | 0.32  | 0.00 | 0.00  |
| Col149 | 38 | 1.89  | 0.00 | 0.00  |
| Col149 | 39 | 1.89  | 0.00 | 0.00  |
| Col149 | 40 | 1.37  | 0.00 | 0.00  |
| Col149 | 41 | 1.37  | 0.00 | 0.00  |
| Col149 | 42 | 1.37  | 0.00 | 0.00  |
| Col149 | 43 | 1.37  | 0.00 | 0.00  |
| Col149 | 44 | 0.17  | 0.00 | 0.00  |
| Col149 | 45 | 0.17  | 0.00 | 0.00  |
| Col149 | 46 | 1.99  | 0.00 | 0.00  |
| Col149 | 47 | 1.30  | 0.00 | 0.19  |
| Col149 | 48 | 0.86  | 0.00 | 0.19  |
| Col149 | 49 | 0.31  | 0.00 | 0.00  |
| Col149 | 50 | 0.31  | 0.00 | 0.00  |
| Col149 | 51 | 0.17  | 0.00 | 0.00  |
| Col149 | 52 | 0.17  | 0.00 | 0.00  |
| Col149 | 53 | 1.89  | 0.00 | 0.00  |
| Col149 | 54 | 1.49  | 0.00 | 0.00  |
| Col149 | 55 | 1.49  | 0.00 | 0.19  |
| Col149 | 56 | 1.49  | 0.00 | 0.00  |
| Col150 | 1  | 2.41  | 0.00 | 0.00  |
| Col150 | 2  | 0.31  | 0.00 | 0.00  |
| Col150 | 3  | 1.71  | 0.00 | 0.00  |
| Col150 | 4  | 1.71  | 0.00 | 0.00  |
| Col150 | 5  | 1.88  | 0.00 | 0.00  |
| Col150 | 6  | 1.36  | 0.00 | 0.00  |
| Col150 | 7  | 1.36  | 0.00 | 0.00  |
| Col150 | 8  | -0.54 | 0.00 | -0.24 |
| Col150 | 9  | -1.13 | 0.00 | -0.24 |
| Col150 | 10 | -0.54 | 0.00 | 0.24  |
| Col150 | 11 | -1.13 | 0.00 | 0.24  |
| Col150 | 12 | -0.54 | 0.00 | 0.24  |
| Col150 | 13 | -1.13 | 0.00 | 0.24  |
| Col150 | 14 | -0.11 | 0.00 | 0.24  |
| Col150 | 15 | -0.69 | 0.00 | 0.24  |
| Col150 | 16 | 1.61  | 0.00 | 0.18  |
| Col150 | 17 | 1.17  | 0.00 | 0.18  |
| Col150 | 18 | 1.28  | 0.00 | 0.18  |
| Col150 | 19 | 0.85  | 0.00 | 0.18  |
| Col150 | 20 | 1.09  | 0.00 | 0.18  |
| Col150 | 21 | 0.65  | 0.00 | 0.18  |
| Col150 | 22 | 0.76  | 0.00 | 0.18  |
| Col150 | 23 | 0.33  | 0.00 | 0.18  |
| Col150 | 24 | 1.09  | 0.00 | 0.18  |
| Col150 | 25 | 0.65  | 0.00 | 0.18  |
| Col150 | 26 | 0.76  | 0.00 | 0.18  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col150 | 27 | 0.33  | 0.00 | 0.18  |
| Col150 | 28 | -0.63 | 0.00 | -0.24 |
| Col150 | 29 | -1.21 | 0.00 | -0.24 |
| Col150 | 30 | -0.63 | 0.00 | 0.24  |
| Col150 | 31 | -1.21 | 0.00 | 0.24  |
| Col150 | 32 | -0.63 | 0.00 | 0.24  |
| Col150 | 33 | -1.21 | 0.00 | 0.24  |
| Col150 | 34 | -0.19 | 0.00 | 0.24  |
| Col150 | 35 | -0.77 | 0.00 | 0.24  |
| Col150 | 36 | 0.32  | 0.00 | 0.00  |
| Col150 | 37 | 0.32  | 0.00 | 0.00  |
| Col150 | 38 | 1.89  | 0.00 | 0.00  |
| Col150 | 39 | 1.89  | 0.00 | 0.00  |
| Col150 | 40 | 1.37  | 0.00 | 0.00  |
| Col150 | 41 | 1.37  | 0.00 | 0.00  |
| Col150 | 42 | 1.37  | 0.00 | 0.00  |
| Col150 | 43 | 1.37  | 0.00 | 0.00  |
| Col150 | 44 | 0.16  | 0.00 | 0.00  |
| Col150 | 45 | 0.16  | 0.00 | 0.00  |
| Col150 | 46 | 1.99  | 0.00 | 0.00  |
| Col150 | 47 | 1.30  | 0.00 | 0.18  |
| Col150 | 48 | 0.86  | 0.00 | 0.18  |
| Col150 | 49 | 0.31  | 0.00 | 0.00  |
| Col150 | 50 | 0.31  | 0.00 | 0.00  |
| Col150 | 51 | 0.17  | 0.00 | 0.00  |
| Col150 | 52 | 0.17  | 0.00 | 0.00  |
| Col150 | 53 | 1.72  | 0.00 | 0.00  |
| Col150 | 54 | 1.37  | 0.00 | 0.00  |
| Col150 | 55 | 1.37  | 0.00 | 0.18  |
| Col150 | 56 | 1.37  | 0.00 | 0.00  |
| Col151 | 1  | 2.41  | 0.00 | 0.00  |
| Col151 | 2  | 0.31  | 0.00 | 0.00  |
| Col151 | 3  | 1.71  | 0.00 | 0.00  |
| Col151 | 4  | 1.71  | 0.00 | 0.00  |
| Col151 | 5  | 1.88  | 0.00 | 0.00  |
| Col151 | 6  | 1.36  | 0.00 | 0.00  |
| Col151 | 7  | 1.36  | 0.00 | 0.00  |
| Col151 | 8  | -0.55 | 0.00 | -0.24 |
| Col151 | 9  | -1.13 | 0.00 | -0.24 |
| Col151 | 10 | -0.55 | 0.00 | 0.24  |
| Col151 | 11 | -1.13 | 0.00 | 0.24  |
| Col151 | 12 | -0.55 | 0.00 | 0.24  |
| Col151 | 13 | -1.13 | 0.00 | 0.24  |
| Col151 | 14 | -0.11 | 0.00 | 0.24  |
| Col151 | 15 | -0.69 | 0.00 | 0.24  |
| Col151 | 16 | 1.61  | 0.00 | 0.18  |
| Col151 | 17 | 1.17  | 0.00 | 0.18  |
| Col151 | 18 | 1.28  | 0.00 | 0.18  |
| Col151 | 19 | 0.85  | 0.00 | 0.18  |
| Col151 | 20 | 1.09  | 0.00 | 0.18  |
| Col151 | 21 | 0.65  | 0.00 | 0.18  |
| Col151 | 22 | 0.76  | 0.00 | 0.18  |
| Col151 | 23 | 0.33  | 0.00 | 0.18  |
| Col151 | 24 | 1.09  | 0.00 | 0.18  |
| Col151 | 25 | 0.65  | 0.00 | 0.18  |
| Col151 | 26 | 0.76  | 0.00 | 0.18  |
| Col151 | 27 | 0.33  | 0.00 | 0.18  |
| Col151 | 28 | -0.63 | 0.00 | -0.24 |
| Col151 | 29 | -1.21 | 0.00 | -0.24 |
| Col151 | 30 | -0.63 | 0.00 | 0.24  |
| Col151 | 31 | -1.21 | 0.00 | 0.24  |
| Col151 | 32 | -0.63 | 0.00 | 0.24  |
| Col151 | 33 | -1.21 | 0.00 | 0.24  |
| Col151 | 34 | -0.19 | 0.00 | 0.24  |
| Col151 | 35 | -0.77 | 0.00 | 0.24  |

|       |    |      |      |      |
|-------|----|------|------|------|
| Col51 | 36 | 0.31 | 0.00 | 0.00 |
| Col51 | 37 | 0.32 | 0.00 | 0.00 |
| Col51 | 38 | 1.89 | 0.00 | 0.00 |
| Col51 | 39 | 1.89 | 0.00 | 0.00 |
| Col51 | 40 | 1.37 | 0.00 | 0.00 |
| Col51 | 41 | 1.37 | 0.00 | 0.00 |
| Col51 | 42 | 1.37 | 0.00 | 0.00 |
| Col51 | 43 | 1.37 | 0.00 | 0.00 |
| Col51 | 44 | 0.16 | 0.00 | 0.00 |
| Col51 | 45 | 0.16 | 0.00 | 0.00 |
| Col51 | 46 | 1.99 | 0.00 | 0.00 |
| Col51 | 47 | 1.30 | 0.00 | 0.18 |
| Col51 | 48 | 0.86 | 0.00 | 0.18 |
| Col51 | 49 | 0.31 | 0.00 | 0.00 |
| Col51 | 50 | 0.31 | 0.00 | 0.00 |
| Col51 | 51 | 0.17 | 0.00 | 0.00 |
| Col51 | 52 | 0.17 | 0.00 | 0.00 |
| Col51 | 53 | 1.72 | 0.00 | 0.00 |
| Col51 | 54 | 1.37 | 0.00 | 0.00 |
| Col51 | 55 | 1.37 | 0.00 | 0.18 |
| Col51 | 56 | 1.37 | 0.00 | 0.00 |

COLUMN DEFLECTIONS:

| Id     | Load | Deflection(in) |       |
|--------|------|----------------|-------|
|        | Id   | Calc           | Limit |
| Col140 | 1    | 0.00           | 1.09  |
| Col140 | 2    | 0.00           | 1.09  |
| Col140 | 3    | 0.00           | 1.09  |
| Col140 | 4    | 0.00           | 1.09  |
| Col140 | 5    | 0.00           | 1.09  |
| Col140 | 6    | 0.00           | 1.09  |
| Col140 | 7    | 0.00           | 1.09  |
| Col140 | 8    | -0.43          | 1.09  |
| Col140 | 9    | -0.43          | 1.09  |
| Col140 | 10   | 0.43           | 1.09  |
| Col140 | 11   | 0.43           | 1.09  |
| Col140 | 12   | 0.43           | 1.09  |
| Col140 | 13   | 0.43           | 1.09  |
| Col140 | 14   | 0.43           | 1.09  |
| Col140 | 15   | 0.43           | 1.09  |
| Col140 | 16   | 0.33           | 1.09  |
| Col140 | 17   | 0.33           | 1.09  |
| Col140 | 18   | 0.33           | 1.09  |
| Col140 | 19   | 0.33           | 1.09  |
| Col140 | 20   | 0.33           | 1.09  |
| Col140 | 21   | 0.33           | 1.09  |
| Col140 | 22   | 0.33           | 1.09  |
| Col140 | 23   | 0.33           | 1.09  |
| Col140 | 24   | 0.33           | 1.09  |
| Col140 | 25   | 0.33           | 1.09  |
| Col140 | 26   | 0.33           | 1.09  |
| Col140 | 27   | 0.33           | 1.09  |
| Col140 | 28   | -0.43          | 1.09  |
| Col140 | 29   | -0.43          | 1.09  |
| Col140 | 30   | 0.43           | 1.09  |
| Col140 | 31   | 0.43           | 1.09  |
| Col140 | 32   | 0.43           | 1.09  |
| Col140 | 33   | 0.43           | 1.09  |
| Col140 | 34   | 0.43           | 1.09  |
| Col140 | 35   | 0.43           | 1.09  |
| Col140 | 36   | 0.00           | 1.09  |
| Col140 | 37   | 0.00           | 1.09  |
| Col140 | 38   | 0.00           | 1.09  |

|       |    |       |      |
|-------|----|-------|------|
| Col40 | 39 | 0.00  | 1.09 |
| Col40 | 40 | 0.00  | 1.09 |
| Col40 | 41 | 0.00  | 1.09 |
| Col40 | 42 | 0.00  | 1.09 |
| Col40 | 43 | 0.00  | 1.09 |
| Col40 | 44 | 0.00  | 1.09 |
| Col40 | 45 | 0.00  | 1.09 |
| Col40 | 46 | 0.00  | 1.09 |
| Col40 | 47 | 0.20  | 1.09 |
| Col40 | 48 | 0.20  | 1.09 |
| Col40 | 49 | 0.00  | 1.09 |
| Col40 | 50 | 0.00  | 1.09 |
| Col40 | 51 | 0.33  | 1.09 |
| Col40 | 52 | 0.00  | 1.09 |
| Col41 | 1  | 0.00  | 1.10 |
| Col41 | 2  | 0.00  | 1.10 |
| Col41 | 3  | 0.00  | 1.10 |
| Col41 | 4  | 0.00  | 1.10 |
| Col41 | 5  | 0.00  | 1.10 |
| Col41 | 6  | 0.00  | 1.10 |
| Col41 | 7  | 0.00  | 1.10 |
| Col41 | 8  | -0.46 | 1.10 |
| Col41 | 9  | -0.46 | 1.10 |
| Col41 | 10 | 0.46  | 1.10 |
| Col41 | 11 | 0.46  | 1.10 |
| Col41 | 12 | 0.46  | 1.10 |
| Col41 | 13 | 0.46  | 1.10 |
| Col41 | 14 | 0.46  | 1.10 |
| Col41 | 15 | 0.46  | 1.10 |
| Col41 | 16 | 0.34  | 1.10 |
| Col41 | 17 | 0.34  | 1.10 |
| Col41 | 18 | 0.34  | 1.10 |
| Col41 | 19 | 0.34  | 1.10 |
| Col41 | 20 | 0.34  | 1.10 |
| Col41 | 21 | 0.34  | 1.10 |
| Col41 | 22 | 0.34  | 1.10 |
| Col41 | 23 | 0.34  | 1.10 |
| Col41 | 24 | 0.34  | 1.10 |
| Col41 | 25 | 0.34  | 1.10 |
| Col41 | 26 | 0.34  | 1.10 |
| Col41 | 27 | 0.34  | 1.10 |
| Col41 | 28 | -0.46 | 1.10 |
| Col41 | 29 | -0.46 | 1.10 |
| Col41 | 30 | 0.46  | 1.10 |
| Col41 | 31 | 0.46  | 1.10 |
| Col41 | 32 | 0.46  | 1.10 |
| Col41 | 33 | 0.46  | 1.10 |
| Col41 | 34 | 0.46  | 1.10 |
| Col41 | 35 | 0.46  | 1.10 |
| Col41 | 36 | 0.00  | 1.10 |
| Col41 | 37 | 0.00  | 1.10 |
| Col41 | 38 | 0.00  | 1.10 |
| Col41 | 39 | 0.00  | 1.10 |
| Col41 | 40 | 0.00  | 1.10 |
| Col41 | 41 | 0.00  | 1.10 |
| Col41 | 42 | 0.00  | 1.10 |
| Col41 | 43 | 0.00  | 1.10 |
| Col41 | 44 | 0.00  | 1.10 |
| Col41 | 45 | 0.00  | 1.10 |
| Col41 | 46 | 0.00  | 1.10 |
| Col41 | 47 | 0.21  | 1.10 |
| Col41 | 48 | 0.21  | 1.10 |
| Col41 | 49 | 0.00  | 1.10 |
| Col41 | 50 | 0.00  | 1.10 |
| Col41 | 51 | 0.34  | 1.10 |

|       |    |       |      |
|-------|----|-------|------|
| Col41 | 52 | 0.00  | 1.10 |
| Col42 | 1  | 0.00  | 1.12 |
| Col42 | 2  | 0.00  | 1.12 |
| Col42 | 3  | 0.00  | 1.12 |
| Col42 | 4  | 0.00  | 1.12 |
| Col42 | 5  | 0.00  | 1.12 |
| Col42 | 6  | 0.00  | 1.12 |
| Col42 | 7  | 0.00  | 1.12 |
| Col42 | 8  | -0.48 | 1.12 |
| Col42 | 9  | -0.48 | 1.12 |
| Col42 | 10 | 0.48  | 1.12 |
| Col42 | 11 | 0.48  | 1.12 |
| Col42 | 12 | 0.48  | 1.12 |
| Col42 | 13 | 0.48  | 1.12 |
| Col42 | 14 | 0.48  | 1.12 |
| Col42 | 15 | 0.48  | 1.12 |
| Col42 | 16 | 0.36  | 1.12 |
| Col42 | 17 | 0.36  | 1.12 |
| Col42 | 18 | 0.36  | 1.12 |
| Col42 | 19 | 0.36  | 1.12 |
| Col42 | 20 | 0.36  | 1.12 |
| Col42 | 21 | 0.36  | 1.12 |
| Col42 | 22 | 0.36  | 1.12 |
| Col42 | 23 | 0.36  | 1.12 |
| Col42 | 24 | 0.36  | 1.12 |
| Col42 | 25 | 0.36  | 1.12 |
| Col42 | 26 | 0.36  | 1.12 |
| Col42 | 27 | 0.36  | 1.12 |
| Col42 | 28 | -0.48 | 1.12 |
| Col42 | 29 | -0.48 | 1.12 |
| Col42 | 30 | 0.48  | 1.12 |
| Col42 | 31 | 0.48  | 1.12 |
| Col42 | 32 | 0.48  | 1.12 |
| Col42 | 33 | 0.48  | 1.12 |
| Col42 | 34 | 0.48  | 1.12 |
| Col42 | 35 | 0.48  | 1.12 |
| Col42 | 36 | 0.00  | 1.12 |
| Col42 | 37 | 0.00  | 1.12 |
| Col42 | 38 | 0.00  | 1.12 |
| Col42 | 39 | 0.00  | 1.12 |
| Col42 | 40 | 0.00  | 1.12 |
| Col42 | 41 | 0.00  | 1.12 |
| Col42 | 42 | 0.00  | 1.12 |
| Col42 | 43 | 0.00  | 1.12 |
| Col42 | 44 | 0.00  | 1.12 |
| Col42 | 45 | 0.00  | 1.12 |
| Col42 | 46 | 0.00  | 1.12 |
| Col42 | 47 | 0.22  | 1.12 |
| Col42 | 48 | 0.22  | 1.12 |
| Col42 | 49 | 0.00  | 1.12 |
| Col42 | 50 | 0.00  | 1.12 |
| Col42 | 51 | 0.36  | 1.12 |
| Col42 | 52 | 0.00  | 1.12 |
| Col43 | 1  | 0.00  | 1.13 |
| Col43 | 2  | 0.00  | 1.13 |
| Col43 | 3  | 0.00  | 1.13 |
| Col43 | 4  | 0.00  | 1.13 |
| Col43 | 5  | 0.00  | 1.13 |
| Col43 | 6  | 0.00  | 1.13 |
| Col43 | 7  | 0.00  | 1.13 |
| Col43 | 8  | -0.50 | 1.13 |
| Col43 | 9  | -0.50 | 1.13 |
| Col43 | 10 | 0.50  | 1.13 |
| Col43 | 11 | 0.50  | 1.13 |
| Col43 | 12 | 0.50  | 1.13 |



|       |    |       |      |
|-------|----|-------|------|
| Col43 | 13 | 0.50  | 1.13 |
| Col43 | 14 | 0.50  | 1.13 |
| Col43 | 15 | 0.50  | 1.13 |
| Col43 | 16 | 0.38  | 1.13 |
| Col43 | 17 | 0.38  | 1.13 |
| Col43 | 18 | 0.38  | 1.13 |
| Col43 | 19 | 0.38  | 1.13 |
| Col43 | 20 | 0.38  | 1.13 |
| Col43 | 21 | 0.38  | 1.13 |
| Col43 | 22 | 0.38  | 1.13 |
| Col43 | 23 | 0.38  | 1.13 |
| Col43 | 24 | 0.38  | 1.13 |
| Col43 | 25 | 0.38  | 1.13 |
| Col43 | 26 | 0.38  | 1.13 |
| Col43 | 27 | 0.38  | 1.13 |
| Col43 | 28 | -0.50 | 1.13 |
| Col43 | 29 | -0.50 | 1.13 |
| Col43 | 30 | 0.50  | 1.13 |
| Col43 | 31 | 0.50  | 1.13 |
| Col43 | 32 | 0.50  | 1.13 |
| Col43 | 33 | 0.50  | 1.13 |
| Col43 | 34 | 0.50  | 1.13 |
| Col43 | 35 | 0.50  | 1.13 |
| Col43 | 36 | 0.00  | 1.13 |
| Col43 | 37 | 0.00  | 1.13 |
| Col43 | 38 | 0.00  | 1.13 |
| Col43 | 39 | 0.00  | 1.13 |
| Col43 | 40 | 0.00  | 1.13 |
| Col43 | 41 | 0.00  | 1.13 |
| Col43 | 42 | 0.00  | 1.13 |
| Col43 | 43 | 0.00  | 1.13 |
| Col43 | 44 | 0.00  | 1.13 |
| Col43 | 45 | 0.00  | 1.13 |
| Col43 | 46 | 0.00  | 1.13 |
| Col43 | 47 | 0.23  | 1.13 |
| Col43 | 48 | 0.23  | 1.13 |
| Col43 | 49 | 0.00  | 1.13 |
| Col43 | 50 | 0.00  | 1.13 |
| Col43 | 51 | 0.38  | 1.13 |
| Col43 | 52 | 0.00  | 1.13 |
| Col44 | 1  | 0.00  | 1.14 |
| Col44 | 2  | 0.00  | 1.14 |
| Col44 | 3  | 0.00  | 1.14 |
| Col44 | 4  | 0.00  | 1.14 |
| Col44 | 5  | 0.00  | 1.14 |
| Col44 | 6  | 0.00  | 1.14 |
| Col44 | 7  | 0.00  | 1.14 |
| Col44 | 8  | -0.53 | 1.14 |
| Col44 | 9  | -0.53 | 1.14 |
| Col44 | 10 | 0.53  | 1.14 |
| Col44 | 11 | 0.53  | 1.14 |
| Col44 | 12 | 0.53  | 1.14 |
| Col44 | 13 | 0.53  | 1.14 |
| Col44 | 14 | 0.53  | 1.14 |
| Col44 | 15 | 0.53  | 1.14 |
| Col44 | 16 | 0.40  | 1.14 |
| Col44 | 17 | 0.40  | 1.14 |
| Col44 | 18 | 0.40  | 1.14 |
| Col44 | 19 | 0.40  | 1.14 |
| Col44 | 20 | 0.40  | 1.14 |
| Col44 | 21 | 0.40  | 1.14 |
| Col44 | 22 | 0.40  | 1.14 |
| Col44 | 23 | 0.40  | 1.14 |
| Col44 | 24 | 0.40  | 1.14 |
| Col44 | 25 | 0.40  | 1.14 |

|       |    |       |      |
|-------|----|-------|------|
| Col44 | 26 | 0.40  | 1.14 |
| Col44 | 27 | 0.40  | 1.14 |
| Col44 | 28 | -0.53 | 1.14 |
| Col44 | 29 | -0.53 | 1.14 |
| Col44 | 30 | 0.53  | 1.14 |
| Col44 | 31 | 0.53  | 1.14 |
| Col44 | 32 | 0.53  | 1.14 |
| Col44 | 33 | 0.53  | 1.14 |
| Col44 | 34 | 0.53  | 1.14 |
| Col44 | 35 | 0.53  | 1.14 |
| Col44 | 36 | 0.00  | 1.14 |
| Col44 | 37 | 0.00  | 1.14 |
| Col44 | 38 | 0.00  | 1.14 |
| Col44 | 39 | 0.00  | 1.14 |
| Col44 | 40 | 0.00  | 1.14 |
| Col44 | 41 | 0.00  | 1.14 |
| Col44 | 42 | 0.00  | 1.14 |
| Col44 | 43 | 0.00  | 1.14 |
| Col44 | 44 | 0.00  | 1.14 |
| Col44 | 45 | 0.00  | 1.14 |
| Col44 | 46 | 0.00  | 1.14 |
| Col44 | 47 | 0.24  | 1.14 |
| Col44 | 48 | 0.24  | 1.14 |
| Col44 | 49 | 0.00  | 1.14 |
| Col44 | 50 | 0.00  | 1.14 |
| Col44 | 51 | 0.40  | 1.14 |
| Col44 | 52 | 0.00  | 1.14 |
| Col45 | 1  | 0.00  | 1.15 |
| Col45 | 2  | 0.00  | 1.15 |
| Col45 | 3  | 0.00  | 1.15 |
| Col45 | 4  | 0.00  | 1.15 |
| Col45 | 5  | 0.00  | 1.15 |
| Col45 | 6  | 0.00  | 1.15 |
| Col45 | 7  | 0.00  | 1.15 |
| Col45 | 8  | -0.54 | 1.15 |
| Col45 | 9  | -0.54 | 1.15 |
| Col45 | 10 | 0.54  | 1.15 |
| Col45 | 11 | 0.54  | 1.15 |
| Col45 | 12 | 0.54  | 1.15 |
| Col45 | 13 | 0.54  | 1.15 |
| Col45 | 14 | 0.54  | 1.15 |
| Col45 | 15 | 0.54  | 1.15 |
| Col45 | 16 | 0.41  | 1.15 |
| Col45 | 17 | 0.41  | 1.15 |
| Col45 | 18 | 0.41  | 1.15 |
| Col45 | 19 | 0.41  | 1.15 |
| Col45 | 20 | 0.41  | 1.15 |
| Col45 | 21 | 0.41  | 1.15 |
| Col45 | 22 | 0.41  | 1.15 |
| Col45 | 23 | 0.41  | 1.15 |
| Col45 | 24 | 0.41  | 1.15 |
| Col45 | 25 | 0.41  | 1.15 |
| Col45 | 26 | 0.41  | 1.15 |
| Col45 | 27 | 0.41  | 1.15 |
| Col45 | 28 | -0.54 | 1.15 |
| Col45 | 29 | -0.54 | 1.15 |
| Col45 | 30 | 0.54  | 1.15 |
| Col45 | 31 | 0.54  | 1.15 |
| Col45 | 32 | 0.54  | 1.15 |
| Col45 | 33 | 0.54  | 1.15 |
| Col45 | 34 | 0.54  | 1.15 |
| Col45 | 35 | 0.54  | 1.15 |
| Col45 | 36 | 0.00  | 1.15 |
| Col45 | 37 | 0.00  | 1.15 |
| Col45 | 38 | 0.00  | 1.15 |

|       |    |       |      |
|-------|----|-------|------|
| Col45 | 39 | 0.00  | 1.15 |
| Col45 | 40 | 0.00  | 1.15 |
| Col45 | 41 | 0.00  | 1.15 |
| Col45 | 42 | 0.00  | 1.15 |
| Col45 | 43 | 0.00  | 1.15 |
| Col45 | 44 | 0.00  | 1.15 |
| Col45 | 45 | 0.00  | 1.15 |
| Col45 | 46 | 0.00  | 1.15 |
| Col45 | 47 | 0.25  | 1.15 |
| Col45 | 48 | 0.25  | 1.15 |
| Col45 | 49 | 0.00  | 1.15 |
| Col45 | 50 | 0.00  | 1.15 |
| Col45 | 51 | 0.41  | 1.15 |
| Col45 | 52 | 0.00  | 1.15 |
| Col46 | 1  | 0.00  | 1.14 |
| Col46 | 2  | 0.00  | 1.14 |
| Col46 | 3  | 0.00  | 1.14 |
| Col46 | 4  | 0.00  | 1.14 |
| Col46 | 5  | 0.00  | 1.14 |
| Col46 | 6  | 0.00  | 1.14 |
| Col46 | 7  | 0.00  | 1.14 |
| Col46 | 8  | -0.53 | 1.14 |
| Col46 | 9  | -0.53 | 1.14 |
| Col46 | 10 | 0.53  | 1.14 |
| Col46 | 11 | 0.53  | 1.14 |
| Col46 | 12 | 0.53  | 1.14 |
| Col46 | 13 | 0.53  | 1.14 |
| Col46 | 14 | 0.53  | 1.14 |
| Col46 | 15 | 0.53  | 1.14 |
| Col46 | 16 | 0.40  | 1.14 |
| Col46 | 17 | 0.40  | 1.14 |
| Col46 | 18 | 0.40  | 1.14 |
| Col46 | 19 | 0.40  | 1.14 |
| Col46 | 20 | 0.40  | 1.14 |
| Col46 | 21 | 0.40  | 1.14 |
| Col46 | 22 | 0.40  | 1.14 |
| Col46 | 23 | 0.40  | 1.14 |
| Col46 | 24 | 0.40  | 1.14 |
| Col46 | 25 | 0.40  | 1.14 |
| Col46 | 26 | 0.40  | 1.14 |
| Col46 | 27 | 0.40  | 1.14 |
| Col46 | 28 | -0.53 | 1.14 |
| Col46 | 29 | -0.53 | 1.14 |
| Col46 | 30 | 0.53  | 1.14 |
| Col46 | 31 | 0.53  | 1.14 |
| Col46 | 32 | 0.53  | 1.14 |
| Col46 | 33 | 0.53  | 1.14 |
| Col46 | 34 | 0.53  | 1.14 |
| Col46 | 35 | 0.53  | 1.14 |
| Col46 | 36 | 0.00  | 1.14 |
| Col46 | 37 | 0.00  | 1.14 |
| Col46 | 38 | 0.00  | 1.14 |
| Col46 | 39 | 0.00  | 1.14 |
| Col46 | 40 | 0.00  | 1.14 |
| Col46 | 41 | 0.00  | 1.14 |
| Col46 | 42 | 0.00  | 1.14 |
| Col46 | 43 | 0.00  | 1.14 |
| Col46 | 44 | 0.00  | 1.14 |
| Col46 | 45 | 0.00  | 1.14 |
| Col46 | 46 | 0.00  | 1.14 |
| Col46 | 47 | 0.24  | 1.14 |
| Col46 | 48 | 0.24  | 1.14 |
| Col46 | 49 | 0.00  | 1.14 |
| Col46 | 50 | 0.00  | 1.14 |
| Col46 | 51 | 0.40  | 1.14 |

|       |    |       |      |
|-------|----|-------|------|
| Col46 | 52 | 0.00  | 1.14 |
| Col47 | 1  | 0.00  | 1.13 |
| Col47 | 2  | 0.00  | 1.13 |
| Col47 | 3  | 0.00  | 1.13 |
| Col47 | 4  | 0.00  | 1.13 |
| Col47 | 5  | 0.00  | 1.13 |
| Col47 | 6  | 0.00  | 1.13 |
| Col47 | 7  | 0.00  | 1.13 |
| Col47 | 8  | -0.50 | 1.13 |
| Col47 | 9  | -0.50 | 1.13 |
| Col47 | 10 | 0.50  | 1.13 |
| Col47 | 11 | 0.50  | 1.13 |
| Col47 | 12 | 0.50  | 1.13 |
| Col47 | 13 | 0.50  | 1.13 |
| Col47 | 14 | 0.50  | 1.13 |
| Col47 | 15 | 0.50  | 1.13 |
| Col47 | 16 | 0.38  | 1.13 |
| Col47 | 17 | 0.38  | 1.13 |
| Col47 | 18 | 0.38  | 1.13 |
| Col47 | 19 | 0.38  | 1.13 |
| Col47 | 20 | 0.38  | 1.13 |
| Col47 | 21 | 0.38  | 1.13 |
| Col47 | 22 | 0.38  | 1.13 |
| Col47 | 23 | 0.38  | 1.13 |
| Col47 | 24 | 0.38  | 1.13 |
| Col47 | 25 | 0.38  | 1.13 |
| Col47 | 26 | 0.38  | 1.13 |
| Col47 | 27 | 0.38  | 1.13 |
| Col47 | 28 | -0.50 | 1.13 |
| Col47 | 29 | -0.50 | 1.13 |
| Col47 | 30 | 0.50  | 1.13 |
| Col47 | 31 | 0.50  | 1.13 |
| Col47 | 32 | 0.50  | 1.13 |
| Col47 | 33 | 0.50  | 1.13 |
| Col47 | 34 | 0.50  | 1.13 |
| Col47 | 35 | 0.50  | 1.13 |
| Col47 | 36 | 0.00  | 1.13 |
| Col47 | 37 | 0.00  | 1.13 |
| Col47 | 38 | 0.00  | 1.13 |
| Col47 | 39 | 0.00  | 1.13 |
| Col47 | 40 | 0.00  | 1.13 |
| Col47 | 41 | 0.00  | 1.13 |
| Col47 | 42 | 0.00  | 1.13 |
| Col47 | 43 | 0.00  | 1.13 |
| Col47 | 44 | 0.00  | 1.13 |
| Col47 | 45 | 0.00  | 1.13 |
| Col47 | 46 | 0.00  | 1.13 |
| Col47 | 47 | 0.23  | 1.13 |
| Col47 | 48 | 0.23  | 1.13 |
| Col47 | 49 | 0.00  | 1.13 |
| Col47 | 50 | 0.00  | 1.13 |
| Col47 | 51 | 0.38  | 1.13 |
| Col47 | 52 | 0.00  | 1.13 |
| Col48 | 1  | 0.00  | 1.12 |
| Col48 | 2  | 0.00  | 1.12 |
| Col48 | 3  | 0.00  | 1.12 |
| Col48 | 4  | 0.00  | 1.12 |
| Col48 | 5  | 0.00  | 1.12 |
| Col48 | 6  | 0.00  | 1.12 |
| Col48 | 7  | 0.00  | 1.12 |
| Col48 | 8  | -0.48 | 1.12 |
| Col48 | 9  | -0.48 | 1.12 |
| Col48 | 10 | 0.48  | 1.12 |
| Col48 | 11 | 0.48  | 1.12 |
| Col48 | 12 | 0.48  | 1.12 |

|       |    |       |      |
|-------|----|-------|------|
| Col48 | 13 | 0.48  | 1.12 |
| Col48 | 14 | 0.48  | 1.12 |
| Col48 | 15 | 0.48  | 1.12 |
| Col48 | 16 | 0.36  | 1.12 |
| Col48 | 17 | 0.36  | 1.12 |
| Col48 | 18 | 0.36  | 1.12 |
| Col48 | 19 | 0.36  | 1.12 |
| Col48 | 20 | 0.36  | 1.12 |
| Col48 | 21 | 0.36  | 1.12 |
| Col48 | 22 | 0.36  | 1.12 |
| Col48 | 23 | 0.36  | 1.12 |
| Col48 | 24 | 0.36  | 1.12 |
| Col48 | 25 | 0.36  | 1.12 |
| Col48 | 26 | 0.36  | 1.12 |
| Col48 | 27 | 0.36  | 1.12 |
| Col48 | 28 | -0.48 | 1.12 |
| Col48 | 29 | -0.48 | 1.12 |
| Col48 | 30 | 0.48  | 1.12 |
| Col48 | 31 | 0.48  | 1.12 |
| Col48 | 32 | 0.48  | 1.12 |
| Col48 | 33 | 0.48  | 1.12 |
| Col48 | 34 | 0.48  | 1.12 |
| Col48 | 35 | 0.48  | 1.12 |
| Col48 | 36 | 0.00  | 1.12 |
| Col48 | 37 | 0.00  | 1.12 |
| Col48 | 38 | 0.00  | 1.12 |
| Col48 | 39 | 0.00  | 1.12 |
| Col48 | 40 | 0.00  | 1.12 |
| Col48 | 41 | 0.00  | 1.12 |
| Col48 | 42 | 0.00  | 1.12 |
| Col48 | 43 | 0.00  | 1.12 |
| Col48 | 44 | 0.00  | 1.12 |
| Col48 | 45 | 0.00  | 1.12 |
| Col48 | 46 | 0.00  | 1.12 |
| Col48 | 47 | 0.22  | 1.12 |
| Col48 | 48 | 0.22  | 1.12 |
| Col48 | 49 | 0.00  | 1.12 |
| Col48 | 50 | 0.00  | 1.12 |
| Col48 | 51 | 0.36  | 1.12 |
| Col48 | 52 | 0.00  | 1.12 |
| Col49 | 1  | 0.00  | 1.10 |
| Col49 | 2  | 0.00  | 1.10 |
| Col49 | 3  | 0.00  | 1.10 |
| Col49 | 4  | 0.00  | 1.10 |
| Col49 | 5  | 0.00  | 1.10 |
| Col49 | 6  | 0.00  | 1.10 |
| Col49 | 7  | 0.00  | 1.10 |
| Col49 | 8  | -0.46 | 1.10 |
| Col49 | 9  | -0.46 | 1.10 |
| Col49 | 10 | 0.46  | 1.10 |
| Col49 | 11 | 0.46  | 1.10 |
| Col49 | 12 | 0.46  | 1.10 |
| Col49 | 13 | 0.46  | 1.10 |
| Col49 | 14 | 0.46  | 1.10 |
| Col49 | 15 | 0.46  | 1.10 |
| Col49 | 16 | 0.34  | 1.10 |
| Col49 | 17 | 0.34  | 1.10 |
| Col49 | 18 | 0.34  | 1.10 |
| Col49 | 19 | 0.34  | 1.10 |
| Col49 | 20 | 0.34  | 1.10 |
| Col49 | 21 | 0.34  | 1.10 |
| Col49 | 22 | 0.34  | 1.10 |
| Col49 | 23 | 0.34  | 1.10 |
| Col49 | 24 | 0.34  | 1.10 |
| Col49 | 25 | 0.34  | 1.10 |

|        |    |       |      |
|--------|----|-------|------|
| Col149 | 26 | 0.34  | 1.10 |
| Col149 | 27 | 0.34  | 1.10 |
| Col149 | 28 | -0.46 | 1.10 |
| Col149 | 29 | -0.46 | 1.10 |
| Col149 | 30 | 0.46  | 1.10 |
| Col149 | 31 | 0.46  | 1.10 |
| Col149 | 32 | 0.46  | 1.10 |
| Col149 | 33 | 0.46  | 1.10 |
| Col149 | 34 | 0.46  | 1.10 |
| Col149 | 35 | 0.46  | 1.10 |
| Col149 | 36 | 0.00  | 1.10 |
| Col149 | 37 | 0.00  | 1.10 |
| Col149 | 38 | 0.00  | 1.10 |
| Col149 | 39 | 0.00  | 1.10 |
| Col149 | 40 | 0.00  | 1.10 |
| Col149 | 41 | 0.00  | 1.10 |
| Col149 | 42 | 0.00  | 1.10 |
| Col149 | 43 | 0.00  | 1.10 |
| Col149 | 44 | 0.00  | 1.10 |
| Col149 | 45 | 0.00  | 1.10 |
| Col149 | 46 | 0.00  | 1.10 |
| Col149 | 47 | 0.21  | 1.10 |
| Col149 | 48 | 0.21  | 1.10 |
| Col149 | 49 | 0.00  | 1.10 |
| Col149 | 50 | 0.00  | 1.10 |
| Col149 | 51 | 0.34  | 1.10 |
| Col149 | 52 | 0.00  | 1.10 |
| Col150 | 1  | 0.00  | 1.09 |
| Col150 | 2  | 0.00  | 1.09 |
| Col150 | 3  | 0.00  | 1.09 |
| Col150 | 4  | 0.00  | 1.09 |
| Col150 | 5  | 0.00  | 1.09 |
| Col150 | 6  | 0.00  | 1.09 |
| Col150 | 7  | 0.00  | 1.09 |
| Col150 | 8  | -0.43 | 1.09 |
| Col150 | 9  | -0.43 | 1.09 |
| Col150 | 10 | 0.43  | 1.09 |
| Col150 | 11 | 0.43  | 1.09 |
| Col150 | 12 | 0.43  | 1.09 |
| Col150 | 13 | 0.43  | 1.09 |
| Col150 | 14 | 0.43  | 1.09 |
| Col150 | 15 | 0.43  | 1.09 |
| Col150 | 16 | 0.33  | 1.09 |
| Col150 | 17 | 0.33  | 1.09 |
| Col150 | 18 | 0.33  | 1.09 |
| Col150 | 19 | 0.33  | 1.09 |
| Col150 | 20 | 0.33  | 1.09 |
| Col150 | 21 | 0.33  | 1.09 |
| Col150 | 22 | 0.33  | 1.09 |
| Col150 | 23 | 0.33  | 1.09 |
| Col150 | 24 | 0.33  | 1.09 |
| Col150 | 25 | 0.33  | 1.09 |
| Col150 | 26 | 0.33  | 1.09 |
| Col150 | 27 | 0.33  | 1.09 |
| Col150 | 28 | -0.43 | 1.09 |
| Col150 | 29 | -0.43 | 1.09 |
| Col150 | 30 | 0.43  | 1.09 |
| Col150 | 31 | 0.43  | 1.09 |
| Col150 | 32 | 0.43  | 1.09 |
| Col150 | 33 | 0.43  | 1.09 |
| Col150 | 34 | 0.43  | 1.09 |
| Col150 | 35 | 0.43  | 1.09 |
| Col150 | 36 | 0.00  | 1.09 |
| Col150 | 37 | 0.00  | 1.09 |
| Col150 | 38 | 0.00  | 1.09 |

|        |    |       |      |
|--------|----|-------|------|
| Col150 | 39 | 0.00  | 1.09 |
| Col150 | 40 | 0.00  | 1.09 |
| Col150 | 41 | 0.00  | 1.09 |
| Col150 | 42 | 0.00  | 1.09 |
| Col150 | 43 | 0.00  | 1.09 |
| Col150 | 44 | 0.00  | 1.09 |
| Col150 | 45 | 0.00  | 1.09 |
| Col150 | 46 | 0.00  | 1.09 |
| Col150 | 47 | 0.20  | 1.09 |
| Col150 | 48 | 0.20  | 1.09 |
| Col150 | 49 | 0.00  | 1.09 |
| Col150 | 50 | 0.00  | 1.09 |
| Col150 | 51 | 0.33  | 1.09 |
| Col150 | 52 | 0.00  | 1.09 |
| Col151 | 1  | 0.00  | 1.07 |
| Col151 | 2  | 0.00  | 1.07 |
| Col151 | 3  | 0.00  | 1.07 |
| Col151 | 4  | 0.00  | 1.07 |
| Col151 | 5  | 0.00  | 1.07 |
| Col151 | 6  | 0.00  | 1.07 |
| Col151 | 7  | 0.00  | 1.07 |
| Col151 | 8  | -0.41 | 1.07 |
| Col151 | 9  | -0.41 | 1.07 |
| Col151 | 10 | 0.41  | 1.07 |
| Col151 | 11 | 0.41  | 1.07 |
| Col151 | 12 | 0.41  | 1.07 |
| Col151 | 13 | 0.41  | 1.07 |
| Col151 | 14 | 0.41  | 1.07 |
| Col151 | 15 | 0.41  | 1.07 |
| Col151 | 16 | 0.31  | 1.07 |
| Col151 | 17 | 0.31  | 1.07 |
| Col151 | 18 | 0.31  | 1.07 |
| Col151 | 19 | 0.31  | 1.07 |
| Col151 | 20 | 0.31  | 1.07 |
| Col151 | 21 | 0.31  | 1.07 |
| Col151 | 22 | 0.31  | 1.07 |
| Col151 | 23 | 0.31  | 1.07 |
| Col151 | 24 | 0.31  | 1.07 |
| Col151 | 25 | 0.31  | 1.07 |
| Col151 | 26 | 0.31  | 1.07 |
| Col151 | 27 | 0.31  | 1.07 |
| Col151 | 28 | -0.41 | 1.07 |
| Col151 | 29 | -0.41 | 1.07 |
| Col151 | 30 | 0.41  | 1.07 |
| Col151 | 31 | 0.41  | 1.07 |
| Col151 | 32 | 0.41  | 1.07 |
| Col151 | 33 | 0.41  | 1.07 |
| Col151 | 34 | 0.41  | 1.07 |
| Col151 | 35 | 0.41  | 1.07 |
| Col151 | 36 | 0.00  | 1.07 |
| Col151 | 37 | 0.00  | 1.07 |
| Col151 | 38 | 0.00  | 1.07 |
| Col151 | 39 | 0.00  | 1.07 |
| Col151 | 40 | 0.00  | 1.07 |
| Col151 | 41 | 0.00  | 1.07 |
| Col151 | 42 | 0.00  | 1.07 |
| Col151 | 43 | 0.00  | 1.07 |
| Col151 | 44 | 0.00  | 1.07 |
| Col151 | 45 | 0.00  | 1.07 |
| Col151 | 46 | 0.00  | 1.07 |
| Col151 | 47 | 0.19  | 1.07 |
| Col151 | 48 | 0.19  | 1.07 |
| Col151 | 49 | 0.00  | 1.07 |
| Col151 | 50 | 0.00  | 1.07 |
| Col151 | 51 | 0.31  | 1.07 |

Col51      52      0.00      1.07

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id    | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|-------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|       |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col40 | 16.3          | 0.1            | 0.1   | 85           | 2     | 0.00                             | 0.00 |
| Col41 | 16.5          | 0.1            | 0.1   | 86           | 2     | 0.00                             | 0.00 |
| Col42 | 16.7          | 0.1            | 0.1   | 87           | 2     | 0.00                             | 0.00 |
| Col43 | 17.0          | 0.1            | 0.1   | 88           | 2     | 0.00                             | 0.00 |
| Col44 | 17.2          | 0.1            | 0.1   | 89           | 2     | 0.00                             | 0.00 |
| Col45 | 17.3          | 0.1            | 0.1   | 90           | 2     | 0.00                             | 0.00 |
| Col46 | 17.2          | 0.1            | 0.1   | 89           | 2     | 0.00                             | 0.00 |
| Col47 | 17.0          | 0.1            | 0.1   | 88           | 2     | 0.00                             | 0.00 |
| Col48 | 16.7          | 0.1            | 0.1   | 87           | 2     | 0.00                             | 0.00 |
| Col49 | 16.5          | 0.1            | 0.1   | 86           | 2     | 0.00                             | 0.00 |
| Col50 | 16.3          | 0.1            | 0.1   | 85           | 2     | 0.00                             | 0.00 |
| Col51 | 16.1          | 0.1            | 0.1   | 84           | 2     | 0.00                             | 0.00 |



PANEL DATA:

| Bay | Part  | Type | Gage  | Yield |
|-----|-------|------|-------|-------|
| 1   | PBR29 | PR   | 29.00 | 60.0  |

MOMENTS & DEFLECTION:

| Span Id | Locate (ft) |       | Load | -----Moment (ft-lb/ft)----- |       |         |       |       |       |        |       |       | Deflect (in) |  |
|---------|-------------|-------|------|-----------------------------|-------|---------|-------|-------|-------|--------|-------|-------|--------------|--|
|         | Start       | End   |      | Start                       |       | Midspan |       | End   |       | Max UC | Calc  | Limit |              |  |
| 1       | 0.00        | 5.00  | WP   | 0.0                         | 107.0 | -11.7   | 70.2  | 15.8  | 107.0 | 0.17   | -0.04 | 1.00  |              |  |
|         |             |       | WS   | 0.0                         | 107.0 | 11.7    | 70.2  | -15.8 | 70.2  | 0.23   | 0.04  | 1.00  |              |  |
| 2       | 5.00        | 10.00 | WP   | 15.8                        | 107.0 | -5.1    | 70.2  | 11.6  | 107.0 | 0.15   | -0.01 | 1.00  |              |  |
|         |             |       | WS   | -15.8                       | 70.2  | 5.1     | 107.0 | -11.6 | 70.2  | 0.23   | 0.01  | 1.00  |              |  |
| 3       | 10.00       | 15.00 | WP   | 11.6                        | 107.0 | -6.6    | 70.2  | 12.7  | 107.0 | 0.12   | -0.02 | 1.00  |              |  |
|         |             |       | WS   | -11.6                       | 70.2  | 6.6     | 107.0 | -12.7 | 70.2  | 0.18   | 0.02  | 1.00  |              |  |
| 4       | 15.00       | 20.00 | WP   | 12.7                        | 107.0 | -6.2    | 70.2  | 12.4  | 107.0 | 0.12   | -0.01 | 1.00  |              |  |
|         |             |       | WS   | -12.7                       | 70.2  | 6.2     | 107.0 | -12.4 | 70.2  | 0.18   | 0.01  | 1.00  |              |  |
| 5       | 20.00       | 25.00 | WP   | 12.4                        | 107.0 | -6.3    | 70.2  | 12.5  | 107.0 | 0.12   | -0.01 | 1.00  |              |  |
|         |             |       | WS   | -12.4                       | 70.2  | 6.3     | 107.0 | -12.5 | 70.2  | 0.18   | 0.01  | 1.00  |              |  |
| 6       | 25.00       | 30.00 | WP   | 12.5                        | 107.0 | -6.3    | 70.2  | 12.4  | 107.0 | 0.12   | -0.01 | 1.00  |              |  |
|         |             |       | WS   | -12.5                       | 70.2  | 6.3     | 107.0 | -12.4 | 70.2  | 0.18   | 0.01  | 1.00  |              |  |
| 7       | 30.00       | 35.00 | WP   | 12.4                        | 107.0 | -6.2    | 70.2  | 12.7  | 107.0 | 0.12   | -0.01 | 1.00  |              |  |
|         |             |       | WS   | -12.4                       | 70.2  | 6.2     | 107.0 | -12.7 | 70.2  | 0.18   | 0.01  | 1.00  |              |  |
| 8       | 35.00       | 40.00 | WP   | 12.7                        | 107.0 | -6.6    | 70.2  | 11.6  | 107.0 | 0.12   | -0.02 | 1.00  |              |  |
|         |             |       | WS   | -12.7                       | 70.2  | 6.6     | 107.0 | -11.6 | 70.2  | 0.18   | 0.02  | 1.00  |              |  |
| 9       | 40.00       | 45.00 | WP   | 11.6                        | 107.0 | -5.1    | 70.2  | 15.8  | 107.0 | 0.15   | -0.01 | 1.00  |              |  |
|         |             |       | WS   | -11.6                       | 70.2  | 5.1     | 107.0 | -15.8 | 70.2  | 0.23   | 0.01  | 1.00  |              |  |
| 10      | 45.00       | 50.00 | WP   | 15.8                        | 107.0 | -11.7   | 70.2  | 0.0   | 107.0 | 0.17   | -0.04 | 1.00  |              |  |
|         |             |       | WS   | -15.8                       | 70.2  | 11.7    | 107.0 | 0.0   | 107.0 | 0.23   | 0.04  | 1.00  |              |  |

WP - Wind\_Pressure  
 WS - Wind\_Suction

WALL LAYOUT:

| Wall Id | Orn | LeftEW Offset | BackSW Offset | Wall Length | Load Width |
|---------|-----|---------------|---------------|-------------|------------|
| 7       | L   | 0.00          | 30.00         | 14.00       | 5.00       |

MEMBER LAYOUT:

| Id     | Locate (ft) | Part   | ---Web(in)--- Depth | ---Flange(in)--- Thick | Width | Thick | Length (ft) | Weight (lb) | ---Max_Load--- | Id   | UC      | Report |
|--------|-------------|--------|---------------------|------------------------|-------|-------|-------------|-------------|----------------|------|---------|--------|
| Col154 | 4.7         | 6X2C16 | 6.00                | 16ga                   | 2.00  | 16ga  | 17.3        | 38.0        | 8              | 0.44 | Deflect |        |
| Col155 | 9.3         | 6X2C16 | 6.00                | 16ga                   | 2.00  | 16ga  | 17.3        | 38.0        | 8              | 0.44 | Deflect |        |
| Total= |             |        |                     |                        |       |       |             | 75.9        |                |      |         |        |

DESIGN ACTIONS/STRENGTH:

| Id     | Load Id | -Axial(k )- |       | -Shear(k )- |       | Moment(f-k ) |       | -----Unity Check----- |       |        |        |
|--------|---------|-------------|-------|-------------|-------|--------------|-------|-----------------------|-------|--------|--------|
|        |         | Calc        | Limit | Calc        | Limit | Calc         | Limit | Axial                 | Shear | Moment | Shear+ |
| Col154 | 1       | 0.57        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.07                  | 0.00  | 0.07   | 0.00   |
| Col154 | 2       | 0.10        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.01                  | 0.00  | 0.01   | 0.00   |
| Col154 | 3       | 0.42        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.05                  | 0.00  | 0.05   | 0.00   |
| Col154 | 4       | 0.42        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.05                  | 0.00  | 0.05   | 0.00   |
| Col154 | 5       | 0.45        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col154 | 6       | 0.34        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col154 | 7       | 0.34        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col154 | 8       | -0.21       | 21.18 | 0.24        | 3.32  | -1.05        | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col154 | 9       | -0.08       | 21.18 | 0.24        | 3.32  | -1.05        | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col154 | 10      | -0.21       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col154 | 11      | -0.08       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col154 | 12      | -0.21       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col154 | 13      | -0.08       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col154 | 14      | -0.12       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.34   | 0.00   |
| Col154 | 15      | 0.01        | 8.04  | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col154 | 16      | 0.30        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.04                  | 0.05  | 0.29   | 0.00   |
| Col154 | 17      | 0.39        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.05                  | 0.05  | 0.31   | 0.00   |
| Col154 | 18      | 0.23        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.28   | 0.00   |
| Col154 | 19      | 0.32        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.04                  | 0.05  | 0.30   | 0.00   |
| Col154 | 20      | 0.18        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.02                  | 0.05  | 0.28   | 0.00   |
| Col154 | 21      | 0.28        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.29   | 0.00   |
| Col154 | 22      | 0.11        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.01                  | 0.05  | 0.27   | 0.00   |
| Col154 | 23      | 0.21        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.28   | 0.00   |
| Col154 | 24      | 0.18        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.02                  | 0.05  | 0.28   | 0.00   |
| Col154 | 25      | 0.28        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.29   | 0.00   |
| Col154 | 26      | 0.11        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.01                  | 0.05  | 0.27   | 0.00   |
| Col154 | 27      | 0.21        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.28   | 0.00   |
| Col154 | 28      | -0.23       | 21.18 | 0.24        | 3.32  | -1.05        | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col154 | 29      | -0.10       | 21.18 | 0.24        | 3.32  | -1.05        | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col154 | 30      | -0.23       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col154 | 31      | -0.10       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col154 | 32      | -0.23       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col154 | 33      | -0.10       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col154 | 34      | -0.14       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.34   | 0.00   |
| Col154 | 35      | -0.01       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col154 | 36      | 0.11        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.01                  | 0.00  | 0.01   | 0.00   |
| Col154 | 37      | 0.11        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.01                  | 0.00  | 0.01   | 0.00   |
| Col154 | 38      | 0.46        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col154 | 39      | 0.46        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.06                  | 0.00  | 0.06   | 0.00   |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col154 | 40 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col154 | 41 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col154 | 42 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col154 | 43 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col154 | 44 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col154 | 45 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col154 | 46 | 0.48  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col154 | 47 | 0.23  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.29 | 0.00 |
| Col154 | 48 | 0.32  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.04 | 0.05 | 0.30 | 0.00 |
| Col154 | 49 | 0.10  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col154 | 50 | 0.10  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col154 | 51 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col154 | 52 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col154 | 53 | 0.54  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col154 | 54 | 0.43  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col154 | 55 | 0.43  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.05 | 0.05 | 0.31 | 0.00 |
| Col154 | 56 | 0.43  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col155 | 1  | 0.57  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col155 | 2  | 0.10  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col155 | 3  | 0.42  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col155 | 4  | 0.42  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col155 | 5  | 0.45  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col155 | 6  | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col155 | 7  | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col155 | 8  | -0.21 | 21.18 | 0.24  | 3.32 | -1.05 | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col155 | 9  | -0.08 | 21.18 | 0.24  | 3.32 | -1.05 | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col155 | 10 | -0.21 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col155 | 11 | -0.08 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col155 | 12 | -0.21 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col155 | 13 | -0.08 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col155 | 14 | -0.12 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.34 | 0.00 |
| Col155 | 15 | 0.01  | 8.04  | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col155 | 16 | 0.30  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.04 | 0.05 | 0.29 | 0.00 |
| Col155 | 17 | 0.39  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.05 | 0.05 | 0.31 | 0.00 |
| Col155 | 18 | 0.23  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.28 | 0.00 |
| Col155 | 19 | 0.32  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.04 | 0.05 | 0.30 | 0.00 |
| Col155 | 20 | 0.18  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.02 | 0.05 | 0.28 | 0.00 |
| Col155 | 21 | 0.28  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.29 | 0.00 |
| Col155 | 22 | 0.11  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.01 | 0.05 | 0.27 | 0.00 |
| Col155 | 23 | 0.21  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.28 | 0.00 |
| Col155 | 24 | 0.18  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.02 | 0.05 | 0.28 | 0.00 |
| Col155 | 25 | 0.28  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.29 | 0.00 |
| Col155 | 26 | 0.11  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.01 | 0.05 | 0.27 | 0.00 |
| Col155 | 27 | 0.21  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.28 | 0.00 |
| Col155 | 28 | -0.23 | 21.18 | 0.24  | 3.32 | -1.05 | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col155 | 29 | -0.10 | 21.18 | 0.24  | 3.32 | -1.05 | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col155 | 30 | -0.23 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col155 | 31 | -0.10 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col155 | 32 | -0.23 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col155 | 33 | -0.10 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col155 | 34 | -0.14 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.34 | 0.00 |
| Col155 | 35 | -0.01 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col155 | 36 | 0.11  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col155 | 37 | 0.11  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col155 | 38 | 0.46  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col155 | 39 | 0.46  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col155 | 40 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col155 | 41 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col155 | 42 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col155 | 43 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col155 | 44 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col155 | 45 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col155 | 46 | 0.48  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col155 | 47 | 0.23  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.29 | 0.00 |
| Col155 | 48 | 0.32  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.04 | 0.05 | 0.30 | 0.00 |

|       |    |      |      |       |      |      |      |      |      |      |      |
|-------|----|------|------|-------|------|------|------|------|------|------|------|
| Col55 | 49 | 0.10 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col55 | 50 | 0.10 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col55 | 51 | 0.07 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col55 | 52 | 0.07 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col55 | 53 | 0.54 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col55 | 54 | 0.43 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col55 | 55 | 0.43 | 8.04 | -0.18 | 3.32 | 0.79 | 3.07 | 0.05 | 0.05 | 0.31 | 0.00 |
| Col55 | 56 | 0.43 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |

COLUMN REACTIONS:

| Id    | Load |          | In_Plane |          | Out_Plane |
|-------|------|----------|----------|----------|-----------|
|       | Id   | Vert(k ) | Horz(k ) | Horz(k ) |           |
| Col54 | 1    | 0.57     | 0.00     | 0.00     |           |
| Col54 | 2    | 0.10     | 0.00     | 0.00     |           |
| Col54 | 3    | 0.42     | 0.00     | 0.00     |           |
| Col54 | 4    | 0.42     | 0.00     | 0.00     |           |
| Col54 | 5    | 0.45     | 0.00     | 0.00     |           |
| Col54 | 6    | 0.34     | 0.00     | 0.00     |           |
| Col54 | 7    | 0.34     | 0.00     | 0.00     |           |
| Col54 | 8    | -0.21    | 0.00     | -0.24    |           |
| Col54 | 9    | -0.08    | 0.00     | -0.24    |           |
| Col54 | 10   | -0.21    | 0.00     | 0.24     |           |
| Col54 | 11   | -0.08    | 0.00     | 0.24     |           |
| Col54 | 12   | -0.21    | 0.00     | 0.24     |           |
| Col54 | 13   | -0.08    | 0.00     | 0.24     |           |
| Col54 | 14   | -0.12    | 0.00     | 0.24     |           |
| Col54 | 15   | 0.01     | 0.00     | 0.24     |           |
| Col54 | 16   | 0.30     | 0.00     | 0.18     |           |
| Col54 | 17   | 0.39     | 0.00     | 0.18     |           |
| Col54 | 18   | 0.23     | 0.00     | 0.18     |           |
| Col54 | 19   | 0.32     | 0.00     | 0.18     |           |
| Col54 | 20   | 0.18     | 0.00     | 0.18     |           |
| Col54 | 21   | 0.28     | 0.00     | 0.18     |           |
| Col54 | 22   | 0.11     | 0.00     | 0.18     |           |
| Col54 | 23   | 0.21     | 0.00     | 0.18     |           |
| Col54 | 24   | 0.18     | 0.00     | 0.18     |           |
| Col54 | 25   | 0.28     | 0.00     | 0.18     |           |
| Col54 | 26   | 0.11     | 0.00     | 0.18     |           |
| Col54 | 27   | 0.21     | 0.00     | 0.18     |           |
| Col54 | 28   | -0.23    | 0.00     | -0.24    |           |
| Col54 | 29   | -0.10    | 0.00     | -0.24    |           |
| Col54 | 30   | -0.23    | 0.00     | 0.24     |           |
| Col54 | 31   | -0.10    | 0.00     | 0.24     |           |
| Col54 | 32   | -0.23    | 0.00     | 0.24     |           |
| Col54 | 33   | -0.10    | 0.00     | 0.24     |           |
| Col54 | 34   | -0.14    | 0.00     | 0.24     |           |
| Col54 | 35   | -0.01    | 0.00     | 0.24     |           |
| Col54 | 36   | 0.11     | 0.00     | 0.00     |           |
| Col54 | 37   | 0.11     | 0.00     | 0.00     |           |
| Col54 | 38   | 0.46     | 0.00     | 0.00     |           |
| Col54 | 39   | 0.46     | 0.00     | 0.00     |           |
| Col54 | 40   | 0.34     | 0.00     | 0.00     |           |
| Col54 | 41   | 0.34     | 0.00     | 0.00     |           |
| Col54 | 42   | 0.34     | 0.00     | 0.00     |           |
| Col54 | 43   | 0.34     | 0.00     | 0.00     |           |
| Col54 | 44   | 0.07     | 0.00     | 0.00     |           |
| Col54 | 45   | 0.07     | 0.00     | 0.00     |           |
| Col54 | 46   | 0.48     | 0.00     | 0.00     |           |
| Col54 | 47   | 0.23     | 0.00     | 0.18     |           |
| Col54 | 48   | 0.32     | 0.00     | 0.18     |           |
| Col54 | 49   | 0.10     | 0.00     | 0.00     |           |
| Col54 | 50   | 0.10     | 0.00     | 0.00     |           |
| Col54 | 51   | 0.07     | 0.00     | 0.00     |           |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col154 | 52 | 0.07  | 0.00 | 0.00  |
| Col154 | 53 | 0.54  | 0.00 | 0.00  |
| Col154 | 54 | 0.43  | 0.00 | 0.00  |
| Col154 | 55 | 0.43  | 0.00 | 0.18  |
| Col154 | 56 | 0.43  | 0.00 | 0.00  |
| Col155 | 1  | 0.57  | 0.00 | 0.00  |
| Col155 | 2  | 0.10  | 0.00 | 0.00  |
| Col155 | 3  | 0.42  | 0.00 | 0.00  |
| Col155 | 4  | 0.42  | 0.00 | 0.00  |
| Col155 | 5  | 0.45  | 0.00 | 0.00  |
| Col155 | 6  | 0.34  | 0.00 | 0.00  |
| Col155 | 7  | 0.34  | 0.00 | 0.00  |
| Col155 | 8  | -0.21 | 0.00 | -0.24 |
| Col155 | 9  | -0.08 | 0.00 | -0.24 |
| Col155 | 10 | -0.21 | 0.00 | 0.24  |
| Col155 | 11 | -0.08 | 0.00 | 0.24  |
| Col155 | 12 | -0.21 | 0.00 | 0.24  |
| Col155 | 13 | -0.08 | 0.00 | 0.24  |
| Col155 | 14 | -0.12 | 0.00 | 0.24  |
| Col155 | 15 | 0.01  | 0.00 | 0.24  |
| Col155 | 16 | 0.30  | 0.00 | 0.18  |
| Col155 | 17 | 0.39  | 0.00 | 0.18  |
| Col155 | 18 | 0.23  | 0.00 | 0.18  |
| Col155 | 19 | 0.32  | 0.00 | 0.18  |
| Col155 | 20 | 0.18  | 0.00 | 0.18  |
| Col155 | 21 | 0.28  | 0.00 | 0.18  |
| Col155 | 22 | 0.11  | 0.00 | 0.18  |
| Col155 | 23 | 0.21  | 0.00 | 0.18  |
| Col155 | 24 | 0.18  | 0.00 | 0.18  |
| Col155 | 25 | 0.28  | 0.00 | 0.18  |
| Col155 | 26 | 0.11  | 0.00 | 0.18  |
| Col155 | 27 | 0.21  | 0.00 | 0.18  |
| Col155 | 28 | -0.23 | 0.00 | -0.24 |
| Col155 | 29 | -0.10 | 0.00 | -0.24 |
| Col155 | 30 | -0.23 | 0.00 | 0.24  |
| Col155 | 31 | -0.10 | 0.00 | 0.24  |
| Col155 | 32 | -0.23 | 0.00 | 0.24  |
| Col155 | 33 | -0.10 | 0.00 | 0.24  |
| Col155 | 34 | -0.14 | 0.00 | 0.24  |
| Col155 | 35 | -0.01 | 0.00 | 0.24  |
| Col155 | 36 | 0.11  | 0.00 | 0.00  |
| Col155 | 37 | 0.11  | 0.00 | 0.00  |
| Col155 | 38 | 0.46  | 0.00 | 0.00  |
| Col155 | 39 | 0.46  | 0.00 | 0.00  |
| Col155 | 40 | 0.34  | 0.00 | 0.00  |
| Col155 | 41 | 0.34  | 0.00 | 0.00  |
| Col155 | 42 | 0.34  | 0.00 | 0.00  |
| Col155 | 43 | 0.34  | 0.00 | 0.00  |
| Col155 | 44 | 0.07  | 0.00 | 0.00  |
| Col155 | 45 | 0.07  | 0.00 | 0.00  |
| Col155 | 46 | 0.48  | 0.00 | 0.00  |
| Col155 | 47 | 0.23  | 0.00 | 0.18  |
| Col155 | 48 | 0.32  | 0.00 | 0.18  |
| Col155 | 49 | 0.10  | 0.00 | 0.00  |
| Col155 | 50 | 0.10  | 0.00 | 0.00  |
| Col155 | 51 | 0.07  | 0.00 | 0.00  |
| Col155 | 52 | 0.07  | 0.00 | 0.00  |
| Col155 | 53 | 0.54  | 0.00 | 0.00  |
| Col155 | 54 | 0.43  | 0.00 | 0.00  |
| Col155 | 55 | 0.43  | 0.00 | 0.18  |
| Col155 | 56 | 0.43  | 0.00 | 0.00  |

COLUMN DEFLECTIONS:

Load            Deflection (in)

| Id    | Id | Calc  | Limit |
|-------|----|-------|-------|
| Col54 | 1  | 0.00  | 1.16  |
| Col54 | 2  | 0.00  | 1.16  |
| Col54 | 3  | 0.00  | 1.16  |
| Col54 | 4  | 0.00  | 1.16  |
| Col54 | 5  | 0.00  | 1.16  |
| Col54 | 6  | 0.00  | 1.16  |
| Col54 | 7  | 0.00  | 1.16  |
| Col54 | 8  | -0.51 | 1.16  |
| Col54 | 9  | -0.51 | 1.16  |
| Col54 | 10 | 0.51  | 1.16  |
| Col54 | 11 | 0.51  | 1.16  |
| Col54 | 12 | 0.51  | 1.16  |
| Col54 | 13 | 0.51  | 1.16  |
| Col54 | 14 | 0.51  | 1.16  |
| Col54 | 15 | 0.51  | 1.16  |
| Col54 | 16 | 0.39  | 1.16  |
| Col54 | 17 | 0.39  | 1.16  |
| Col54 | 18 | 0.39  | 1.16  |
| Col54 | 19 | 0.39  | 1.16  |
| Col54 | 20 | 0.39  | 1.16  |
| Col54 | 21 | 0.39  | 1.16  |
| Col54 | 22 | 0.39  | 1.16  |
| Col54 | 23 | 0.39  | 1.16  |
| Col54 | 24 | 0.39  | 1.16  |
| Col54 | 25 | 0.39  | 1.16  |
| Col54 | 26 | 0.39  | 1.16  |
| Col54 | 27 | 0.39  | 1.16  |
| Col54 | 28 | -0.51 | 1.16  |
| Col54 | 29 | -0.51 | 1.16  |
| Col54 | 30 | 0.51  | 1.16  |
| Col54 | 31 | 0.51  | 1.16  |
| Col54 | 32 | 0.51  | 1.16  |
| Col54 | 33 | 0.51  | 1.16  |
| Col54 | 34 | 0.51  | 1.16  |
| Col54 | 35 | 0.51  | 1.16  |
| Col54 | 36 | 0.00  | 1.16  |
| Col54 | 37 | 0.00  | 1.16  |
| Col54 | 38 | 0.00  | 1.16  |
| Col54 | 39 | 0.00  | 1.16  |
| Col54 | 40 | 0.00  | 1.16  |
| Col54 | 41 | 0.00  | 1.16  |
| Col54 | 42 | 0.00  | 1.16  |
| Col54 | 43 | 0.00  | 1.16  |
| Col54 | 44 | 0.00  | 1.16  |
| Col54 | 45 | 0.00  | 1.16  |
| Col54 | 46 | 0.00  | 1.16  |
| Col54 | 47 | 0.23  | 1.16  |
| Col54 | 48 | 0.23  | 1.16  |
| Col54 | 49 | 0.00  | 1.16  |
| Col54 | 50 | 0.00  | 1.16  |
| Col54 | 51 | 0.39  | 1.16  |
| Col54 | 52 | 0.00  | 1.16  |
| Col55 | 1  | 0.00  | 1.16  |
| Col55 | 2  | 0.00  | 1.16  |
| Col55 | 3  | 0.00  | 1.16  |
| Col55 | 4  | 0.00  | 1.16  |
| Col55 | 5  | 0.00  | 1.16  |
| Col55 | 6  | 0.00  | 1.16  |
| Col55 | 7  | 0.00  | 1.16  |
| Col55 | 8  | -0.51 | 1.16  |
| Col55 | 9  | -0.51 | 1.16  |
| Col55 | 10 | 0.51  | 1.16  |
| Col55 | 11 | 0.51  | 1.16  |

|       |    |       |      |
|-------|----|-------|------|
| Col55 | 12 | 0.51  | 1.16 |
| Col55 | 13 | 0.51  | 1.16 |
| Col55 | 14 | 0.51  | 1.16 |
| Col55 | 15 | 0.51  | 1.16 |
| Col55 | 16 | 0.39  | 1.16 |
| Col55 | 17 | 0.39  | 1.16 |
| Col55 | 18 | 0.39  | 1.16 |
| Col55 | 19 | 0.39  | 1.16 |
| Col55 | 20 | 0.39  | 1.16 |
| Col55 | 21 | 0.39  | 1.16 |
| Col55 | 22 | 0.39  | 1.16 |
| Col55 | 23 | 0.39  | 1.16 |
| Col55 | 24 | 0.39  | 1.16 |
| Col55 | 25 | 0.39  | 1.16 |
| Col55 | 26 | 0.39  | 1.16 |
| Col55 | 27 | 0.39  | 1.16 |
| Col55 | 28 | -0.51 | 1.16 |
| Col55 | 29 | -0.51 | 1.16 |
| Col55 | 30 | 0.51  | 1.16 |
| Col55 | 31 | 0.51  | 1.16 |
| Col55 | 32 | 0.51  | 1.16 |
| Col55 | 33 | 0.51  | 1.16 |
| Col55 | 34 | 0.51  | 1.16 |
| Col55 | 35 | 0.51  | 1.16 |
| Col55 | 36 | 0.00  | 1.16 |
| Col55 | 37 | 0.00  | 1.16 |
| Col55 | 38 | 0.00  | 1.16 |
| Col55 | 39 | 0.00  | 1.16 |
| Col55 | 40 | 0.00  | 1.16 |
| Col55 | 41 | 0.00  | 1.16 |
| Col55 | 42 | 0.00  | 1.16 |
| Col55 | 43 | 0.00  | 1.16 |
| Col55 | 44 | 0.00  | 1.16 |
| Col55 | 45 | 0.00  | 1.16 |
| Col55 | 46 | 0.00  | 1.16 |
| Col55 | 47 | 0.23  | 1.16 |
| Col55 | 48 | 0.23  | 1.16 |
| Col55 | 49 | 0.00  | 1.16 |
| Col55 | 50 | 0.00  | 1.16 |
| Col55 | 51 | 0.39  | 1.16 |
| Col55 | 52 | 0.00  | 1.16 |

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id    | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|-------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|       |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col54 | 17.3          | 0.1            | 0.1   | 90           | 2     | 0.00                             | 0.00 |
| Col55 | 17.3          | 0.1            | 0.1   | 90           | 2     | 0.00                             | 0.00 |

PANEL DATA:

| Bay | Part  | Type | Gage  | Yield |
|-----|-------|------|-------|-------|
| 1   | PBR29 | PR   | 29.00 | 60.0  |

MOMENTS & DEFLECTION:

| Span Id | Locate (ft) |       | Load | -----Moment (ft-lb/ft)----- |             |              |               |          |           | Deflect (in) |       |       |
|---------|-------------|-------|------|-----------------------------|-------------|--------------|---------------|----------|-----------|--------------|-------|-------|
|         | Start       | End   |      | Start Calc                  | Start Limit | Midspan Calc | Midspan Limit | End Calc | End Limit | Max UC       | Calc  | Limit |
| 1       | 0.00        | 4.67  | WP   | 0.0                         | 107.0       | -10.5        | 70.2          | 13.1     | 107.0     | 0.15         | -0.03 | 0.93  |
|         |             |       | WS   | 0.0                         | 70.2        | 10.5         | 107.0         | -13.1    | 70.2      | 0.19         | 0.03  | 0.93  |
| 2       | 4.67        | 9.33  | WP   | 13.1                        | 107.0       | -3.3         | 70.2          | 13.1     | 107.0     | 0.12         | 0.00  | 0.93  |
|         |             |       | WS   | -13.1                       | 70.2        | 3.3          | 107.0         | -13.1    | 70.2      | 0.19         | 0.00  | 0.93  |
| 3       | 9.33        | 14.00 | WP   | 13.1                        | 107.0       | -10.5        | 70.2          | 0.0      | 107.0     | 0.15         | -0.03 | 0.93  |
|         |             |       | WS   | -13.1                       | 70.2        | 10.5         | 107.0         | 0.0      | 107.0     | 0.19         | 0.03  | 0.93  |

WP - Wind Pressure  
 WS - Wind Suction



WALL LAYOUT:

| Wall Id | Orn | LeftEW Offset | BackSW Offset | Wall Length | Load Width |
|---------|-----|---------------|---------------|-------------|------------|
| 8       | L   | 56.00         | 30.00         | 14.00       | 5.00       |

MEMBER LAYOUT:

| Id     | Locate (ft) | Part   | ---Web(in)-- Depth | --Flange(in)-- Thick | Width | Thick | Length (ft) | Weight (lb) | ---- | Max Load | ----    |
|--------|-------------|--------|--------------------|----------------------|-------|-------|-------------|-------------|------|----------|---------|
|        |             |        |                    |                      |       |       |             |             | Id   | UC       | Report  |
| Col58  | 4.7         | 6X2C16 | 6.00               | 16ga                 | 2.00  | 16ga  | 17.3        | 38.0        | 8    | 0.44     | Deflect |
| Col59  | 9.3         | 6X2C16 | 6.00               | 16ga                 | 2.00  | 16ga  | 17.3        | 38.0        | 8    | 0.44     | Deflect |
| Total= |             |        |                    |                      |       |       |             | 75.9        |      |          |         |

DESIGN ACTIONS/STRENGTH:

| Id    | Load Id | -Axial(k )- |       | -Shear(k )- |       | Moment(f-k ) |       | -----Unity Check----- |       |        |        |
|-------|---------|-------------|-------|-------------|-------|--------------|-------|-----------------------|-------|--------|--------|
|       |         | Calc        | Limit | Calc        | Limit | Calc         | Limit | Axial                 | Shear | Moment | Shear+ |
| Col58 | 1       | 0.57        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.07                  | 0.00  | 0.07   | 0.00   |
| Col58 | 2       | 0.10        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.01                  | 0.00  | 0.01   | 0.00   |
| Col58 | 3       | 0.42        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.05                  | 0.00  | 0.05   | 0.00   |
| Col58 | 4       | 0.42        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.05                  | 0.00  | 0.05   | 0.00   |
| Col58 | 5       | 0.45        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col58 | 6       | 0.34        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col58 | 7       | 0.34        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col58 | 8       | -0.21       | 21.18 | 0.24        | 3.32  | -1.05        | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col58 | 9       | -0.08       | 21.18 | 0.24        | 3.32  | -1.05        | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col58 | 10      | -0.21       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col58 | 11      | -0.08       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col58 | 12      | -0.21       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col58 | 13      | -0.08       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col58 | 14      | -0.12       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.34   | 0.00   |
| Col58 | 15      | 0.01        | 8.04  | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col58 | 16      | 0.30        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.04                  | 0.05  | 0.29   | 0.00   |
| Col58 | 17      | 0.39        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.05                  | 0.05  | 0.31   | 0.00   |
| Col58 | 18      | 0.23        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.28   | 0.00   |
| Col58 | 19      | 0.32        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.04                  | 0.05  | 0.30   | 0.00   |
| Col58 | 20      | 0.18        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.02                  | 0.05  | 0.28   | 0.00   |
| Col58 | 21      | 0.28        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.29   | 0.00   |
| Col58 | 22      | 0.11        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.01                  | 0.05  | 0.27   | 0.00   |
| Col58 | 23      | 0.21        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.28   | 0.00   |
| Col58 | 24      | 0.18        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.02                  | 0.05  | 0.28   | 0.00   |
| Col58 | 25      | 0.28        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.29   | 0.00   |
| Col58 | 26      | 0.11        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.01                  | 0.05  | 0.27   | 0.00   |
| Col58 | 27      | 0.21        | 8.04  | -0.18       | 3.32  | 0.79         | 3.07  | 0.03                  | 0.05  | 0.28   | 0.00   |
| Col58 | 28      | -0.23       | 21.18 | 0.24        | 3.32  | -1.05        | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col58 | 29      | -0.10       | 21.18 | 0.24        | 3.32  | -1.05        | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col58 | 30      | -0.23       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col58 | 31      | -0.10       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col58 | 32      | -0.23       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.33   | 0.00   |
| Col58 | 33      | -0.10       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col58 | 34      | -0.14       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.01                  | 0.07  | 0.34   | 0.00   |
| Col58 | 35      | -0.01       | 21.18 | -0.24       | 3.32  | 1.05         | 3.07  | 0.00                  | 0.07  | 0.34   | 0.00   |
| Col58 | 36      | 0.11        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.01                  | 0.00  | 0.01   | 0.00   |
| Col58 | 37      | 0.11        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.01                  | 0.00  | 0.01   | 0.00   |
| Col58 | 38      | 0.46        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col58 | 39      | 0.46        | 8.04  | 0.00        | 3.32  | 0.00         | 3.07  | 0.06                  | 0.00  | 0.06   | 0.00   |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col58 | 40 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col58 | 41 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col58 | 42 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col58 | 43 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col58 | 44 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col58 | 45 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col58 | 46 | 0.48  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col58 | 47 | 0.23  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.29 | 0.00 |
| Col58 | 48 | 0.32  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.04 | 0.05 | 0.30 | 0.00 |
| Col58 | 49 | 0.10  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col58 | 50 | 0.10  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col58 | 51 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col58 | 52 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col58 | 53 | 0.54  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col58 | 54 | 0.43  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col58 | 55 | 0.43  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.05 | 0.05 | 0.31 | 0.00 |
| Col58 | 56 | 0.43  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col59 | 1  | 0.57  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col59 | 2  | 0.10  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 3  | 0.42  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col59 | 4  | 0.42  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col59 | 5  | 0.45  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col59 | 6  | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col59 | 7  | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col59 | 8  | -0.21 | 21.18 | 0.24  | 3.32 | -1.05 | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col59 | 9  | -0.08 | 21.18 | 0.24  | 3.32 | -1.05 | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col59 | 10 | -0.21 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col59 | 11 | -0.08 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col59 | 12 | -0.21 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col59 | 13 | -0.08 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col59 | 14 | -0.12 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.34 | 0.00 |
| Col59 | 15 | 0.01  | 8.04  | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col59 | 16 | 0.30  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.04 | 0.05 | 0.29 | 0.00 |
| Col59 | 17 | 0.39  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.05 | 0.05 | 0.31 | 0.00 |
| Col59 | 18 | 0.23  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.28 | 0.00 |
| Col59 | 19 | 0.32  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.04 | 0.05 | 0.30 | 0.00 |
| Col59 | 20 | 0.18  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.02 | 0.05 | 0.28 | 0.00 |
| Col59 | 21 | 0.28  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.29 | 0.00 |
| Col59 | 22 | 0.11  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.01 | 0.05 | 0.27 | 0.00 |
| Col59 | 23 | 0.21  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.28 | 0.00 |
| Col59 | 24 | 0.18  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.02 | 0.05 | 0.28 | 0.00 |
| Col59 | 25 | 0.28  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.29 | 0.00 |
| Col59 | 26 | 0.11  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.01 | 0.05 | 0.27 | 0.00 |
| Col59 | 27 | 0.21  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.28 | 0.00 |
| Col59 | 28 | -0.23 | 21.18 | 0.24  | 3.32 | -1.05 | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col59 | 29 | -0.10 | 21.18 | 0.24  | 3.32 | -1.05 | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col59 | 30 | -0.23 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col59 | 31 | -0.10 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col59 | 32 | -0.23 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.33 | 0.00 |
| Col59 | 33 | -0.10 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col59 | 34 | -0.14 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.01 | 0.07 | 0.34 | 0.00 |
| Col59 | 35 | -0.01 | 21.18 | -0.24 | 3.32 | 1.05  | 3.07 | 0.00 | 0.07 | 0.34 | 0.00 |
| Col59 | 36 | 0.11  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 37 | 0.11  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 38 | 0.46  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col59 | 39 | 0.46  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col59 | 40 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col59 | 41 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col59 | 42 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col59 | 43 | 0.34  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col59 | 44 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 45 | 0.07  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 46 | 0.48  | 8.04  | 0.00  | 3.32 | 0.00  | 3.07 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col59 | 47 | 0.23  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.03 | 0.05 | 0.29 | 0.00 |
| Col59 | 48 | 0.32  | 8.04  | -0.18 | 3.32 | 0.79  | 3.07 | 0.04 | 0.05 | 0.30 | 0.00 |

|       |    |      |      |       |      |      |      |      |      |      |      |
|-------|----|------|------|-------|------|------|------|------|------|------|------|
| Col59 | 49 | 0.10 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 50 | 0.10 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 51 | 0.07 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 52 | 0.07 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 53 | 0.54 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col59 | 54 | 0.43 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col59 | 55 | 0.43 | 8.04 | -0.18 | 3.32 | 0.79 | 3.07 | 0.05 | 0.05 | 0.31 | 0.00 |
| Col59 | 56 | 0.43 | 8.04 | 0.00  | 3.32 | 0.00 | 3.07 | 0.05 | 0.00 | 0.05 | 0.00 |

COLUMN REACTIONS:

| Id    | Load |          | In_Plane |          | Out_Plane |  |
|-------|------|----------|----------|----------|-----------|--|
|       | Id   | Vert(k ) | Horz(k ) | Horz(k ) |           |  |
| Col58 | 1    | 0.57     | 0.00     | 0.00     |           |  |
| Col58 | 2    | 0.10     | 0.00     | 0.00     |           |  |
| Col58 | 3    | 0.42     | 0.00     | 0.00     |           |  |
| Col58 | 4    | 0.42     | 0.00     | 0.00     |           |  |
| Col58 | 5    | 0.45     | 0.00     | 0.00     |           |  |
| Col58 | 6    | 0.34     | 0.00     | 0.00     |           |  |
| Col58 | 7    | 0.34     | 0.00     | 0.00     |           |  |
| Col58 | 8    | -0.21    | 0.00     | -0.24    |           |  |
| Col58 | 9    | -0.08    | 0.00     | -0.24    |           |  |
| Col58 | 10   | -0.21    | 0.00     | 0.24     |           |  |
| Col58 | 11   | -0.08    | 0.00     | 0.24     |           |  |
| Col58 | 12   | -0.21    | 0.00     | 0.24     |           |  |
| Col58 | 13   | -0.08    | 0.00     | 0.24     |           |  |
| Col58 | 14   | -0.12    | 0.00     | 0.24     |           |  |
| Col58 | 15   | 0.01     | 0.00     | 0.24     |           |  |
| Col58 | 16   | 0.30     | 0.00     | 0.18     |           |  |
| Col58 | 17   | 0.39     | 0.00     | 0.18     |           |  |
| Col58 | 18   | 0.23     | 0.00     | 0.18     |           |  |
| Col58 | 19   | 0.32     | 0.00     | 0.18     |           |  |
| Col58 | 20   | 0.18     | 0.00     | 0.18     |           |  |
| Col58 | 21   | 0.28     | 0.00     | 0.18     |           |  |
| Col58 | 22   | 0.11     | 0.00     | 0.18     |           |  |
| Col58 | 23   | 0.21     | 0.00     | 0.18     |           |  |
| Col58 | 24   | 0.18     | 0.00     | 0.18     |           |  |
| Col58 | 25   | 0.28     | 0.00     | 0.18     |           |  |
| Col58 | 26   | 0.11     | 0.00     | 0.18     |           |  |
| Col58 | 27   | 0.21     | 0.00     | 0.18     |           |  |
| Col58 | 28   | -0.23    | 0.00     | -0.24    |           |  |
| Col58 | 29   | -0.10    | 0.00     | -0.24    |           |  |
| Col58 | 30   | -0.23    | 0.00     | 0.24     |           |  |
| Col58 | 31   | -0.10    | 0.00     | 0.24     |           |  |
| Col58 | 32   | -0.23    | 0.00     | 0.24     |           |  |
| Col58 | 33   | -0.10    | 0.00     | 0.24     |           |  |
| Col58 | 34   | -0.14    | 0.00     | 0.24     |           |  |
| Col58 | 35   | -0.01    | 0.00     | 0.24     |           |  |
| Col58 | 36   | 0.11     | 0.00     | 0.00     |           |  |
| Col58 | 37   | 0.11     | 0.00     | 0.00     |           |  |
| Col58 | 38   | 0.46     | 0.00     | 0.00     |           |  |
| Col58 | 39   | 0.46     | 0.00     | 0.00     |           |  |
| Col58 | 40   | 0.34     | 0.00     | 0.00     |           |  |
| Col58 | 41   | 0.34     | 0.00     | 0.00     |           |  |
| Col58 | 42   | 0.34     | 0.00     | 0.00     |           |  |
| Col58 | 43   | 0.34     | 0.00     | 0.00     |           |  |
| Col58 | 44   | 0.07     | 0.00     | 0.00     |           |  |
| Col58 | 45   | 0.07     | 0.00     | 0.00     |           |  |
| Col58 | 46   | 0.48     | 0.00     | 0.00     |           |  |
| Col58 | 47   | 0.23     | 0.00     | 0.18     |           |  |
| Col58 | 48   | 0.32     | 0.00     | 0.18     |           |  |
| Col58 | 49   | 0.10     | 0.00     | 0.00     |           |  |
| Col58 | 50   | 0.10     | 0.00     | 0.00     |           |  |
| Col58 | 51   | 0.07     | 0.00     | 0.00     |           |  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col158 | 52 | 0.07  | 0.00 | 0.00  |
| Col158 | 53 | 0.54  | 0.00 | 0.00  |
| Col158 | 54 | 0.43  | 0.00 | 0.00  |
| Col158 | 55 | 0.43  | 0.00 | 0.18  |
| Col158 | 56 | 0.43  | 0.00 | 0.00  |
| Col159 | 1  | 0.57  | 0.00 | 0.00  |
| Col159 | 2  | 0.10  | 0.00 | 0.00  |
| Col159 | 3  | 0.42  | 0.00 | 0.00  |
| Col159 | 4  | 0.42  | 0.00 | 0.00  |
| Col159 | 5  | 0.45  | 0.00 | 0.00  |
| Col159 | 6  | 0.34  | 0.00 | 0.00  |
| Col159 | 7  | 0.34  | 0.00 | 0.00  |
| Col159 | 8  | -0.21 | 0.00 | -0.24 |
| Col159 | 9  | -0.08 | 0.00 | -0.24 |
| Col159 | 10 | -0.21 | 0.00 | 0.24  |
| Col159 | 11 | -0.08 | 0.00 | 0.24  |
| Col159 | 12 | -0.21 | 0.00 | 0.24  |
| Col159 | 13 | -0.08 | 0.00 | 0.24  |
| Col159 | 14 | -0.12 | 0.00 | 0.24  |
| Col159 | 15 | 0.01  | 0.00 | 0.24  |
| Col159 | 16 | 0.30  | 0.00 | 0.18  |
| Col159 | 17 | 0.39  | 0.00 | 0.18  |
| Col159 | 18 | 0.23  | 0.00 | 0.18  |
| Col159 | 19 | 0.32  | 0.00 | 0.18  |
| Col159 | 20 | 0.18  | 0.00 | 0.18  |
| Col159 | 21 | 0.28  | 0.00 | 0.18  |
| Col159 | 22 | 0.11  | 0.00 | 0.18  |
| Col159 | 23 | 0.21  | 0.00 | 0.18  |
| Col159 | 24 | 0.18  | 0.00 | 0.18  |
| Col159 | 25 | 0.28  | 0.00 | 0.18  |
| Col159 | 26 | 0.11  | 0.00 | 0.18  |
| Col159 | 27 | 0.21  | 0.00 | 0.18  |
| Col159 | 28 | -0.23 | 0.00 | -0.24 |
| Col159 | 29 | -0.10 | 0.00 | -0.24 |
| Col159 | 30 | -0.23 | 0.00 | 0.24  |
| Col159 | 31 | -0.10 | 0.00 | 0.24  |
| Col159 | 32 | -0.23 | 0.00 | 0.24  |
| Col159 | 33 | -0.10 | 0.00 | 0.24  |
| Col159 | 34 | -0.14 | 0.00 | 0.24  |
| Col159 | 35 | -0.01 | 0.00 | 0.24  |
| Col159 | 36 | 0.11  | 0.00 | 0.00  |
| Col159 | 37 | 0.11  | 0.00 | 0.00  |
| Col159 | 38 | 0.46  | 0.00 | 0.00  |
| Col159 | 39 | 0.46  | 0.00 | 0.00  |
| Col159 | 40 | 0.34  | 0.00 | 0.00  |
| Col159 | 41 | 0.34  | 0.00 | 0.00  |
| Col159 | 42 | 0.34  | 0.00 | 0.00  |
| Col159 | 43 | 0.34  | 0.00 | 0.00  |
| Col159 | 44 | 0.07  | 0.00 | 0.00  |
| Col159 | 45 | 0.07  | 0.00 | 0.00  |
| Col159 | 46 | 0.48  | 0.00 | 0.00  |
| Col159 | 47 | 0.23  | 0.00 | 0.18  |
| Col159 | 48 | 0.32  | 0.00 | 0.18  |
| Col159 | 49 | 0.10  | 0.00 | 0.00  |
| Col159 | 50 | 0.10  | 0.00 | 0.00  |
| Col159 | 51 | 0.07  | 0.00 | 0.00  |
| Col159 | 52 | 0.07  | 0.00 | 0.00  |
| Col159 | 53 | 0.54  | 0.00 | 0.00  |
| Col159 | 54 | 0.43  | 0.00 | 0.00  |
| Col159 | 55 | 0.43  | 0.00 | 0.18  |
| Col159 | 56 | 0.43  | 0.00 | 0.00  |

COLUMN DEFLECTIONS:

Load            Deflection (in)

| Id    | Id | Calc  | Limit |
|-------|----|-------|-------|
| Col58 | 1  | 0.00  | 1.16  |
| Col58 | 2  | 0.00  | 1.16  |
| Col58 | 3  | 0.00  | 1.16  |
| Col58 | 4  | 0.00  | 1.16  |
| Col58 | 5  | 0.00  | 1.16  |
| Col58 | 6  | 0.00  | 1.16  |
| Col58 | 7  | 0.00  | 1.16  |
| Col58 | 8  | -0.51 | 1.16  |
| Col58 | 9  | -0.51 | 1.16  |
| Col58 | 10 | 0.51  | 1.16  |
| Col58 | 11 | 0.51  | 1.16  |
| Col58 | 12 | 0.51  | 1.16  |
| Col58 | 13 | 0.51  | 1.16  |
| Col58 | 14 | 0.51  | 1.16  |
| Col58 | 15 | 0.51  | 1.16  |
| Col58 | 16 | 0.39  | 1.16  |
| Col58 | 17 | 0.39  | 1.16  |
| Col58 | 18 | 0.39  | 1.16  |
| Col58 | 19 | 0.39  | 1.16  |
| Col58 | 20 | 0.39  | 1.16  |
| Col58 | 21 | 0.39  | 1.16  |
| Col58 | 22 | 0.39  | 1.16  |
| Col58 | 23 | 0.39  | 1.16  |
| Col58 | 24 | 0.39  | 1.16  |
| Col58 | 25 | 0.39  | 1.16  |
| Col58 | 26 | 0.39  | 1.16  |
| Col58 | 27 | 0.39  | 1.16  |
| Col58 | 28 | -0.51 | 1.16  |
| Col58 | 29 | -0.51 | 1.16  |
| Col58 | 30 | 0.51  | 1.16  |
| Col58 | 31 | 0.51  | 1.16  |
| Col58 | 32 | 0.51  | 1.16  |
| Col58 | 33 | 0.51  | 1.16  |
| Col58 | 34 | 0.51  | 1.16  |
| Col58 | 35 | 0.51  | 1.16  |
| Col58 | 36 | 0.00  | 1.16  |
| Col58 | 37 | 0.00  | 1.16  |
| Col58 | 38 | 0.00  | 1.16  |
| Col58 | 39 | 0.00  | 1.16  |
| Col58 | 40 | 0.00  | 1.16  |
| Col58 | 41 | 0.00  | 1.16  |
| Col58 | 42 | 0.00  | 1.16  |
| Col58 | 43 | 0.00  | 1.16  |
| Col58 | 44 | 0.00  | 1.16  |
| Col58 | 45 | 0.00  | 1.16  |
| Col58 | 46 | 0.00  | 1.16  |
| Col58 | 47 | 0.23  | 1.16  |
| Col58 | 48 | 0.23  | 1.16  |
| Col58 | 49 | 0.00  | 1.16  |
| Col58 | 50 | 0.00  | 1.16  |
| Col58 | 51 | 0.39  | 1.16  |
| Col58 | 52 | 0.00  | 1.16  |
| Col59 | 1  | 0.00  | 1.16  |
| Col59 | 2  | 0.00  | 1.16  |
| Col59 | 3  | 0.00  | 1.16  |
| Col59 | 4  | 0.00  | 1.16  |
| Col59 | 5  | 0.00  | 1.16  |
| Col59 | 6  | 0.00  | 1.16  |
| Col59 | 7  | 0.00  | 1.16  |
| Col59 | 8  | -0.51 | 1.16  |
| Col59 | 9  | -0.51 | 1.16  |
| Col59 | 10 | 0.51  | 1.16  |
| Col59 | 11 | 0.51  | 1.16  |

|       |    |       |      |
|-------|----|-------|------|
| Col59 | 12 | 0.51  | 1.16 |
| Col59 | 13 | 0.51  | 1.16 |
| Col59 | 14 | 0.51  | 1.16 |
| Col59 | 15 | 0.51  | 1.16 |
| Col59 | 16 | 0.39  | 1.16 |
| Col59 | 17 | 0.39  | 1.16 |
| Col59 | 18 | 0.39  | 1.16 |
| Col59 | 19 | 0.39  | 1.16 |
| Col59 | 20 | 0.39  | 1.16 |
| Col59 | 21 | 0.39  | 1.16 |
| Col59 | 22 | 0.39  | 1.16 |
| Col59 | 23 | 0.39  | 1.16 |
| Col59 | 24 | 0.39  | 1.16 |
| Col59 | 25 | 0.39  | 1.16 |
| Col59 | 26 | 0.39  | 1.16 |
| Col59 | 27 | 0.39  | 1.16 |
| Col59 | 28 | -0.51 | 1.16 |
| Col59 | 29 | -0.51 | 1.16 |
| Col59 | 30 | 0.51  | 1.16 |
| Col59 | 31 | 0.51  | 1.16 |
| Col59 | 32 | 0.51  | 1.16 |
| Col59 | 33 | 0.51  | 1.16 |
| Col59 | 34 | 0.51  | 1.16 |
| Col59 | 35 | 0.51  | 1.16 |
| Col59 | 36 | 0.00  | 1.16 |
| Col59 | 37 | 0.00  | 1.16 |
| Col59 | 38 | 0.00  | 1.16 |
| Col59 | 39 | 0.00  | 1.16 |
| Col59 | 40 | 0.00  | 1.16 |
| Col59 | 41 | 0.00  | 1.16 |
| Col59 | 42 | 0.00  | 1.16 |
| Col59 | 43 | 0.00  | 1.16 |
| Col59 | 44 | 0.00  | 1.16 |
| Col59 | 45 | 0.00  | 1.16 |
| Col59 | 46 | 0.00  | 1.16 |
| Col59 | 47 | 0.23  | 1.16 |
| Col59 | 48 | 0.23  | 1.16 |
| Col59 | 49 | 0.00  | 1.16 |
| Col59 | 50 | 0.00  | 1.16 |
| Col59 | 51 | 0.39  | 1.16 |
| Col59 | 52 | 0.00  | 1.16 |

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id    | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|-------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|       |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col58 | 17.3          | 0.1            | 0.1   | 90           | 2     | 0.00                             | 0.00 |
| Col59 | 17.3          | 0.1            | 0.1   | 90           | 2     | 0.00                             | 0.00 |

PANEL DATA:

| Bay | Part  | Type | Gage  | Yield |
|-----|-------|------|-------|-------|
| 1   | PBR29 | PR   | 29.00 | 60.0  |

MOMENTS & DEFLECTION:

| Span Id | Locate (ft) |       | Load | -----Moment (ft-lb/ft)----- |             |              |               |          |           | Deflect (in) |       |       |
|---------|-------------|-------|------|-----------------------------|-------------|--------------|---------------|----------|-----------|--------------|-------|-------|
|         | Start       | End   |      | Start Calc                  | Start Limit | Midspan Calc | Midspan Limit | End Calc | End Limit | Max UC       | Calc  | Limit |
| 1       | 0.00        | 4.67  | WP   | 0.0                         | 107.0       | -10.5        | 70.2          | 13.1     | 107.0     | 0.15         | -0.03 | 0.93  |
|         |             |       | WS   | 0.0                         | 70.2        | 10.5         | 107.0         | -13.1    | 70.2      | 0.19         | 0.03  | 0.93  |
| 2       | 4.67        | 9.33  | WP   | 13.1                        | 107.0       | -3.3         | 70.2          | 13.1     | 107.0     | 0.12         | 0.00  | 0.93  |
|         |             |       | WS   | -13.1                       | 70.2        | 3.3          | 107.0         | -13.1    | 70.2      | 0.19         | 0.00  | 0.93  |
| 3       | 9.33        | 14.00 | WP   | 13.1                        | 107.0       | -10.5        | 70.2          | 0.0      | 107.0     | 0.15         | -0.03 | 0.93  |
|         |             |       | WS   | -13.1                       | 70.2        | 10.5         | 107.0         | 0.0      | 107.0     | 0.19         | 0.03  | 0.93  |

WP - Wind Pressure  
WS - Wind Suction

WALL BRACING

Member  
WRN(WWM-401): Panel Shear > Limit