

|                |                                     |          |     |      |            |
|----------------|-------------------------------------|----------|-----|------|------------|
| Project Name   | Linn Street ove IR-75 & Gest Street | Designer | XAC | Date | 12/27/2024 |
| Project Number | 59089 Estimated Quantities          | Checker  | JDG | Date | 12/27/2024 |
|                |                                     | Revised  | BES | Date | 4/9/2025   |
|                |                                     | Checked  | MAB | Date | 4/9/2025   |

| ITEM      | TOTAL | UNIT | DESCRIPTION                                                  |
|-----------|-------|------|--------------------------------------------------------------|
| 202E11003 |       | LS   | STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN            |
| 202E22900 | 634   | SY   | APPROACH SLAB REMOVED                                        |
|           |       |      | Length of Approach Slab 50 ft                                |
|           |       |      | Width of Approach Slab 89 ft                                 |
|           |       |      | 4450 sq. ft.                                                 |
|           |       |      | Ramp R Approach Slab 629 sq. ft.                             |
|           |       |      | Ramp S Approach Slab 629 sq. ft.                             |
|           |       |      | Area of Approach Slab 5708 sq. ft.                           |
| 202E30204 |       | LS   | STEPS REMOVED                                                |
| 203E20001 | 27    | CY   | EMBANKMENT, AS PER PLAN                                      |
|           |       |      | Rear Abut. Only                                              |
|           |       |      | Area by Cadd 12.54 sq ft                                     |
|           |       |      | Width 57.6 ft                                                |
|           |       |      | 27 cy                                                        |
| 203E35111 | 864   | CY   | GRANULAR MATERIAL, TYPE B, AS PER PLAN                       |
|           |       |      | Rear Abut Bottom Top Fwd Abut Bottom Top                     |
|           |       |      | Height 513.91 522.1033 8.1933 Height 510.07 521.3433 11.2733 |
|           |       |      | Area in Cadd 1200 Area in Cadd 1197                          |
|           |       |      | 364 500                                                      |
| 503E11101 |       | LS   | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN               |
| 503E21300 |       | LS   | UNCLASSIFIED EXCAVATION                                      |
| 505E11100 |       | LS   | PILE DRIVING EQUIPMENT MOBILIZATION                          |
| 507E00500 | 4120  | FT   | 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN          |
|           |       |      | Number of Piles Length of piles Total                        |
|           |       |      | Rear Abut 24 65 1560                                         |
|           |       |      | Fwd Abut 32 80 2560                                          |
| 507E00550 | 4400  | FT   | 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED       |

|           | Number of Piles | Length of piles | Total |
|-----------|-----------------|-----------------|-------|
| Rear Abut | 24              | 70              | 1680  |
| Fwd Abut  | 32              | 85              | 2720  |

507E00600 5500 FT 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN

|        | Number of Piles | Length of piles | Total |
|--------|-----------------|-----------------|-------|
| Pier 1 | 29              | 60              | 1740  |
| Pier 2 | 47              | 80              | 3760  |

507E00650 5880 FT 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED

|        | Number of Piles | Length of piles | Total |
|--------|-----------------|-----------------|-------|
| Pier 1 | 29              | 65              | 1885  |
| Pier 2 | 47              | 85              | 3995  |

507E92201 280 FT PREBORED HOLES, AS PER PLAN

|        | Number of Hole | Length of Hole | Total |
|--------|----------------|----------------|-------|
| Pier 2 | 14             | 20             | 280   |

509E26000 502351 LB GALVANIZED STEEL REINFORCEMENT

|               |        |
|---------------|--------|
| Rear Abut     | 13264  |
| Pier 1        | 36433  |
| pier 2        | 41087  |
| Fwd Abut      | 14729  |
| Deck Unit 1   | 44635  |
| Deck Unit 2   | 238472 |
| Sidewalk      | 46666  |
| Raised Median | 8579   |
| Parapets      | 46072  |
| Planters      | 12414  |

511E34463 313 CY CLASS QC SCC CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN

Left Parapet

Unit 1

|                       |                |
|-----------------------|----------------|
| End Pilaster Height = | 18.770833 ft   |
| End Pilaster Width =  | 2.25 ft        |
| End Pilaster Weight   | 6.3351563 klf  |
| End Pilaster Length = | 9.33 ft        |
|                       | 59.107008 kips |

|                 |                |
|-----------------|----------------|
| Parapet Area =  | 250.83333      |
| Parapet Width = | 1.9791667      |
| Parapet Load =  | 74.466146 kips |

Unit 2

|                       |                |
|-----------------------|----------------|
| End Pilaster Height = | 18.916667 ft   |
| End Pilaster Width =  | 2.25 ft        |
| End Pilaster Weight   | 6.384375 klf   |
| End Pilaster Length = | 10.59 ft       |
|                       | 67.610531 kips |

|                 |                |
|-----------------|----------------|
| Parapet Area =  | 1445.5         |
| Parapet Width = | 1.9791667      |
| Parapet Load =  | 429.13281 kips |

Texas Classic Inset 1 (8' panels, each)  
Height = 3.8333333 ft  
Width = 0.1875 ft  
Length = 5.75 ft  
Load = -0.619922 kips

Texas Classic Inset 2 (8' panels, each)  
Height = 3.2083333 ft  
Width = 0.1875 ft  
Length = 5.2083333 ft  
Load = -0.469971 kips

Texas Classic windows (8' panels, each)  
Area = 1.4704323 sf  
Width = 0.1875 ft  
Number = 5  
Load = -0.20678 kips

Texas Classic Inset 1 (End panels, each)  
Height = 3.8333333 ft  
Width = 0.1875 ft  
Length = 3.75 ft  
Load = -0.404297 kips

Texas Classic Inset 2 (End panels, each)  
Height = 3.2083333 ft  
Width = 0.1875 ft  
Length = 3.2083333 ft  
Load = -0.289502 kips

Texas Classic windows (End panels, each)  
Area = 1.4704323 sf  
Width = 0.1875 ft  
Number = 3  
Load = -0.124068 kips

# of 8' panels = 6  
# of end panels = 1

Total adjustment for Texas Classic  
Load = -8.597899 kips

Total Barrier Weight = 125.0 kips  
Total Barrier Volume = 30.9 cy

Right Parapet

**Unit 1**

Texas Classic Inset 1 (8' panels, each)  
Height = 3.8333333 ft  
Width = 0.1875 ft  
Length = 5.75 ft  
Load = -0.619922 kips

Texas Classic Inset 2 (8' panels, each)  
Height = 3.2083333 ft  
Width = 0.1875 ft  
Length = 5.2083333 ft  
Load = -0.469971 kips

Texas Classic windows (8' panels, each)  
Area = 1.4704323 sf  
Width = 0.1875 ft  
Number = 5  
Load = -0.20678 kips

Texas Classic Inset 1 (End panels, each)  
Height = 3.8333333 ft  
Width = 0.1875 ft  
Length = 3.75 ft  
Load = -0.404297 kips

Texas Classic Inset 2 (End panels, each)  
Height = 3.2083333 ft  
Width = 0.1875 ft  
Length = 3.2083333 ft  
Load = -0.289502 kips

Texas Classic windows (End panels, each)  
Area = 1.4704323 sf  
Width = 0.1875 ft  
Number = 3  
Load = -0.124068 kips

# of 8' panels = 38  
# of end panels = 1

Total adjustment for Texas Classic  
Load = -50.09141 kips

Total Barrier Weight = 446.7 kips  
Total Barrier Volume = 110.3 cy

**Unit 2**

|                                          |                |                                          |                |
|------------------------------------------|----------------|------------------------------------------|----------------|
| End Pilaster Height =                    | 18.770833 ft   | End Pilaster Height =                    | 18.927083 ft   |
| End Pilaster Width =                     | 2.25 ft        | End Pilaster Width =                     | 2.25 ft        |
| End Pilaster Weight                      | 6.3351563 klf  | End Pilaster Weight                      | 6.3878906 klf  |
| End Pilaster Length =                    | 9.33 ft        | End Pilaster Length =                    | 11.75 ft       |
|                                          | 59.107008 kips |                                          | 75.057715 kips |
| Parapet Area =                           | 250.83333      | Parapet Area =                           | 1445.5         |
| Parapet Width =                          | 1.9791667      | Parapet Width =                          | 1.9791667      |
| Parapet Load =                           | 74.466146 kips | Parapet Load =                           | 429.13281 kips |
| Texas Classic Inset 1 (8' panels, each)  |                | Texas Classic Inset 1 (8' panels, each)  |                |
| Height =                                 | 3.8333333 ft   | Height =                                 | 3.8333333 ft   |
| Width =                                  | 0.1875 ft      | Width =                                  | 0.1875 ft      |
| Length =                                 | 5.75 ft        | Length =                                 | 5.75 ft        |
| Load =                                   | -0.619922 kips | Load =                                   | -0.619922 kips |
| Texas Classic Inset 2 (8' panels, each)  |                | Texas Classic Inset 2 (8' panels, each)  |                |
| Height =                                 | 3.2083333 ft   | Height =                                 | 3.2083333 ft   |
| Width =                                  | 0.1875 ft      | Width =                                  | 0.1875 ft      |
| Length =                                 | 5.2083333 ft   | Length =                                 | 5.2083333 ft   |
| Load =                                   | -0.469971 kips | Load =                                   | -0.469971 kips |
| Texas Classic windows (8' panels, each)  |                | Texas Classic windows (8' panels, each)  |                |
| Area =                                   | 1.4704323 sf   | Area =                                   | 1.4704323 sf   |
| Width =                                  | 0.1875 ft      | Width =                                  | 0.1875 ft      |
| Number =                                 | 5              | Number =                                 | 5              |
| Load =                                   | -0.20678 kips  | Load =                                   | -0.20678 kips  |
| Texas Classic Inset 1 (End panels, each) |                | Texas Classic Inset 1 (End panels, each) |                |
| Height =                                 | 3.8333333 ft   | Height =                                 | 3.8333333 ft   |
| Width =                                  | 0.1875 ft      | Width =                                  | 0.1875 ft      |
| Length =                                 | 3.75 ft        | Length =                                 | 3.75 ft        |
| Load =                                   | -0.404297 kips | Load =                                   | -0.404297 kips |
| Texas Classic Inset 2 (End panels, each) |                | Texas Classic Inset 2 (End panels, each) |                |
| Height =                                 | 3.2083333 ft   | Height =                                 | 3.2083333 ft   |
| Width =                                  | 0.1875 ft      | Width =                                  | 0.1875 ft      |
| Length =                                 | 3.2083333 ft   | Length =                                 | 3.2083333 ft   |
| Load =                                   | -0.289502 kips | Load =                                   | -0.289502 kips |
| Texas Classic windows (End panels, each) |                | Texas Classic windows (End panels, each) |                |
| Area =                                   | 1.4704323 sf   | Area =                                   | 1.4704323 sf   |
| Width =                                  | 0.1875 ft      | Width =                                  | 0.1875 ft      |
| Number =                                 | 3              | Number =                                 | 3              |
| Load =                                   | -0.124068 kips | Load =                                   | -0.124068 kips |
| # of 8' panels =                         | 6              | # of 8' panels =                         | 38             |
| # of end panels =                        | 1              | # of end panels =                        | 1              |
| Total adjustment for Texas Classic       |                | Total adjustment for Texas Classic       |                |

|                        |                |                        |                |
|------------------------|----------------|------------------------|----------------|
| Load =                 | -8.597899 kips | Load =                 | -50.09141 kips |
| Total Barrier Weight = | 125.0 kips     | Total Barrier Weight = | 454.1 kips     |
| Total Barrier Volume = | 30.9 cy        | Total Barrier Volume = | 112.1 cy       |
| Approach Slab Parapets |                |                        |                |
| Height =               | 4 ft           |                        |                |
| Width =                | 1.5 ft         |                        |                |
| Length - Rear =        | 31.270833 ft   |                        |                |
| Length - Forward =     | 33.302083 ft   |                        |                |
| Number =               | 2              |                        |                |
| Total Volume =         | 28.7 cy        |                        |                |
| Total Parapet Volume = | 313 cy         |                        |                |

511E46512 279 CY CLASS QC1 CONCRETE WITH QC/QA, FOOTING

|           | Width | Height | Length | Num of Ftg | Volume       |
|-----------|-------|--------|--------|------------|--------------|
| Rear Abut | 6.5   | 3      | 91.86  | 1          | 66.35 cu yd  |
| Fwd Abut  | 6.5   | 3      | 91.66  | 1          | 66.20 cu yd  |
| Pier 1    | 9     | 3      | 10.00  | 6          | 60.00 cu yd  |
| Pier 2    | 10    | 3.75   | 10.00  | 2          | 27.78 cu yd  |
|           | 12    | 3.75   | 10.00  | 2          | 33.33 cu yd  |
|           | 9     | 3.75   | 10.00  | 2          | 25.00 cu yd  |
|           |       |        | Total  |            | 278.65 cu yd |

511E53014 1079 CY CLASS QC3 CONCRETE, MISC.: BRIDGE DECK, WITH QC/QA

|                                |             |                                |           |
|--------------------------------|-------------|--------------------------------|-----------|
| Deck Width (ft)                | 90.33       | Deck Width (ft)                | 90.33     |
| Deck Length (ft)               | 62.92       | Deck Length (ft)               | 320.78    |
| Deck Thickness (ft)            | 0.75        | Deck Thickness (ft)            | 0.75      |
|                                | 157.87      |                                | 804.88    |
| Haunch Width Unit 1 (ft)       | 1.01        |                                |           |
| Haunch Thickness (ft)          | 0.17625     |                                |           |
| Length (ft)                    | 62.9167     |                                |           |
| #                              | 9           |                                |           |
|                                | 3.73        |                                |           |
| Overhang Thickness Unit 1(ft)  | 0.302083333 | Overhang Thickness Unit 2(ft)  | 0.5       |
| Overhang Width (ft)            | 2.662       | Overhang Width (ft)            | 2.417     |
| Length (ft)                    | 62.9167     | Length (ft)                    | 320.776   |
|                                | 3.75        |                                | 28.72     |
| Haunch Cross section at Pier 1 | 2.4635 SF   | Haunch Cross section at Pier 1 | 2.4635 SF |
| Length =                       | 90.33 FT    | Length =                       | 90.333 FT |
|                                | 8.24        |                                | 8.24      |

| Unit 2 | Width | Length | Flange Thk | Huanch Thk |             | Width  | Length | Flange Thk | Huanch Thk |         | Width    | Length | Flange Thk | Huanch Thk |       |          |          |
|--------|-------|--------|------------|------------|-------------|--------|--------|------------|------------|---------|----------|--------|------------|------------|-------|----------|----------|
| G1 & 9 | 18    | 30.525 | 0.875      | 0.40625    | 18.60117188 | G2 & 8 | 18     | 30.525     | 0.875      | 0.40625 | 18.60117 | G3-7   | 18         | 30.525     | 0.875 | 0.40625  | 18.60117 |
|        | 18    | 74     | 1.25       | 0.375      | 41.625      |        | 18     | 74         | 1.25       | 0.375   | 41.625   |        | 18         | 74         | 1.25  | 0.375    | 41.625   |
|        | 24    | 34     | 2.25       | 0.29166667 | 19.83333333 |        | 24     | 34         | 2          | 0.3125  | 21.25    |        | 22         | 34         | 1.75  | 0.333333 | 20.77778 |
|        | 24    | 26     | 3.5        | 0.1875     | 9.75        |        | 24     | 26         | 2.75       | 0.25    | 13       |        | 22         | 26         | 2.3   | 0.291667 | 13.90278 |
|        | 24    | 47     | 2.250      | 0.29166667 | 27.41666667 |        | 24     | 47         | 2.000      | 0.3125  | 29.375   |        | 22         | 47         | 1.750 | 0.333333 | 28.72222 |
|        | 20    | 72.5   | 1.250      | 0.375      | 45.3125     |        | 18     | 72.5       | 1.250      | 0.375   | 40.78125 |        | 18         | 72.5       | 1.250 | 0.375    | 40.78125 |
|        | 20    | 36.465 | 0.875      | 0.40625    | 24.68984375 |        | 18     | 36.465     | 0.875      | 0.40625 | 22.22086 |        | 18         | 36.46512   | 0.875 | 0.40625  | 22.22093 |
|        |       |        |            | #          | 2           |        |        |            |            | #       | 2        |        |            |            | #     | 5        |          |
|        |       |        |            |            | 13.87       |        |        |            |            |         | 13.84    |        |            |            |       | 34.56    |          |

#### Bumpouts at End Pilasters

|                        |              |
|------------------------|--------------|
| Rear Left Length =     | 9.3854167 ft |
| Rear Right Length =    | 9.3854167 ft |
| Forward Left Length =  | 10.666667 ft |
| Forward Right Length = | 11.8125 ft   |
| Width                  | 0.5 ft       |
| Unit 1 Thickness =     | 1.0520833 ft |
| Unit 2 Thickness =     | 1.25 ft      |
| Volume =               | 0.89 cy      |

Total 1079 CY

511E53014 237 CY CLASS QC3 CONCRETE, MISC.: PIER ABOVE FOOTINGS, WITH QC/QA

| Pier 1               |       |    | Pier 2               |       |  |
|----------------------|-------|----|----------------------|-------|--|
| Column Dia (ft)      | 3     |    | Column Dia (ft)      | 3     |  |
| Column Ht (ft)       | 15.48 |    | Column Ht (ft)       | 17.56 |  |
| No. Column           | 6     |    | No. Column           | 6     |  |
|                      | 24.32 |    |                      | 27.58 |  |
| Pier 1               |       |    | Pier 2               |       |  |
| Min. Cap Height (ft) | 4     |    | Min. Cap Height (ft) | 5.75  |  |
| Cap Length (ft)      | 90.34 |    | Cap Length (ft)      | 90.67 |  |
| Cap Width (ft)       | 5     |    | Cap Width (ft)       | 4.5   |  |
|                      | 66.92 |    |                      | 86.89 |  |
| Additional Conc.     | 29.00 |    | Additional Conc.     | 2.16  |  |
| Total                | 237   | CY |                      |       |  |

511E53014 155 CY CLASS QC3 CONCRETE, MISC.: ABUTMENT NOT INCLUDING FOOTING, WITH QC/QA

| Rear Abut                          |         | FWD Abut                          |          |
|------------------------------------|---------|-----------------------------------|----------|
| Rear Abut Length (Ft)              | 91.86   | FWD Abut Length (Ft)              | 91.66    |
| Rear Abut Breast Wall Width (ft)   | 3.75    | FWD Abut Breast Wall Width (ft)   | 4.25     |
| Rear Abut Breast Wall Area (sq ft) | 301.8   | FWD Abut Breast Wall Area (sq ft) | 303.28   |
| Rear Abut Backwall Width(ft)       | 1.75    | FWD Abut Backwall Width(ft)       | 1.75     |
| Rear Abut Backwall Area(sq ft)     | 268.53  | FWD Abut Backwall Area(sq ft)     | 540.31   |
| Rear Abut Top Width (ft)           | 1.25    | FWD Abut Top Width (ft)           | 1.25     |
| Rear Abut Top Height (ft)          | 1.46875 | FWD Abut Top Height (ft)          | 1.489583 |
|                                    | 65.57   |                                   | 89.08    |

Total 155 CY

|           |        |                                                      |             |             |             |             |
|-----------|--------|------------------------------------------------------|-------------|-------------|-------------|-------------|
| 511E51513 | 510 CY | CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK, AS PER PLAN |             |             |             |             |
|           |        |                                                      | Unit 1 Lt   | Unit 1 Rt   | Unit 2 Lt   | Unit 2 Rt   |
|           |        | Sidewalk Area (Sq ft)                                | 1399.8      | 1400.7      | 7141.8      | 7157.3      |
|           |        | Sidewalk Depth (ft)                                  | 0.666666667 | 0.666666667 | 0.666666667 | 0.666666667 |
|           |        |                                                      | 34.56       | 34.59       | 176.34      | 176.72      |
|           |        |                                                      |             |             |             | 87.16       |

511E53012 83 CY CLASS QC2 CONCRETE, MISC.: RAISED MEDIAN, WITH QC/QA

|                           |        |
|---------------------------|--------|
| Raised Median Width (ft)  | 10     |
| Raised Median Depth (ft)  | 0.5    |
| Raised Median Length (ft) | 450.30 |
|                           | 83     |

511E53012 98 CY CLASS QC2 CONCRETE, MISC.: PLANTER WALLS, WITH QC/QA

Left Planters

| Unit 1                                                                                                                                                              | Unit 2                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Large Planter at Rear Abut.:<br>Concrete:<br>Width = 0.791667 ft<br>Length = 4.5 ft<br>Height = 3.833333 ft<br>Front Area = 90.69667 sq ft<br>Weight = 14.8671 kips | Large Planter at Forward Abut.:<br>Concrete:<br>Width = 0.7916667 ft<br>Length = 4.5 ft<br>Height = 3.8333333 ft<br>Front Area = 90.658333 sq ft<br>Weight = 14.862552 kips |
| Typ. Small Planter:<br>Concrete:<br>Width = 0.791667 ft<br>Front Area = 25.66667 sq ft<br>Weight = 3.047917 kips                                                    | Typ. Small Planter:<br>Concrete:<br>Width = 0.7916667 ft<br>Front Area = 25.666667 sq ft<br>Weight = 3.0479167 kips                                                         |
| Typ. Large Planter:<br>Concrete:<br>Width = 0.791667 ft<br>Length = 4.5 ft<br>Height = 3.833333 ft<br>Front Area = 74.43056 sq ft<br>Weight = 12.9355 kips          | Typ. Large Planter:<br>Concrete:<br>Width = 0.7916667 ft<br>Length = 4.5 ft<br>Height = 3.8333333 ft<br>Front Area = 74.430556 sq ft<br>Weight = 12.935503 kips             |
| Small Planter at Pier 1:<br>Concrete:<br>Width = 0.791667 ft<br>Front Area = 13.11333 sq ft<br>Weight = 2.402313 kips                                               | Small Planter at Pier 1:<br>Concrete:<br>Width = 0.7916667 ft<br>Front Area = 16.403333 sq ft<br>Weight = 2.793 kips                                                        |

|                              |                |                                 |                 |
|------------------------------|----------------|---------------------------------|-----------------|
| # of Small Planters =        | 1              | # of Small Planters =           | 9               |
| # of Large Planters =        | 1              | # of Large Planters =           | 9               |
| Total Weight =               | 33.3 kips      | Total Weight =                  | 161.5 kips      |
| Total Volume =               | 8.2 cy         | Total Volume =                  | 39.9 cy         |
| Right Planters               |                |                                 |                 |
| Unit 1                       |                | Unit 2                          |                 |
| Large Planter at Rear Abut.: |                | Large Planter at Forward Abut.: |                 |
| Concrete:                    |                | Concrete:                       |                 |
| Width =                      | 0.791667 ft    | Width =                         | 0.7916667 ft    |
| Length =                     | 4.5 ft         | Length =                        | 4.5 ft          |
| Height =                     | 3.833333 ft    | Height =                        | 3.8333333 ft    |
| Front Area =                 | 85.59833 sq ft | Front Area =                    | 99.858333 sq ft |
| Weight =                     | 14.26168 kips  | Weight =                        | 15.955052 kips  |
| Typ. Small Planter:          |                | Typ. Small Planter:             |                 |
| Concrete:                    |                | Concrete:                       |                 |
| Width =                      | 0.791667 ft    | Width =                         | 0.7916667 ft    |
| Front Area =                 | 25.66667 sq ft | Front Area =                    | 25.666667 sq ft |
| Weight =                     | 3.047917 kips  | Weight =                        | 3.0479167 kips  |
| Typ. Large Planter:          |                | Typ. Large Planter:             |                 |
| Concrete:                    |                | Concrete:                       |                 |
| Width =                      | 0.791667 ft    | Width =                         | 0.7916667 ft    |
| Length =                     | 4.5 ft         | Length =                        | 4.5 ft          |
| Height =                     | 3.833333 ft    | Height =                        | 3.8333333 ft    |
| Front Area =                 | 74.43056 sq ft | Front Area =                    | 74.430556 sq ft |
| Weight =                     | 12.9355 kips   | Weight =                        | 12.935503 kips  |
| Small Planter at Pier 1:     |                | Small Planter at Pier 1:        |                 |
| Concrete:                    |                | Concrete:                       |                 |
| Width =                      | 0.791667 ft    | Width =                         | 0.7916667 ft    |
| Front Area =                 | 16.40333 sq ft | Front Area =                    | 13.113333 sq ft |
| Weight =                     | 2.793 kips     | Weight =                        | 2.4023125 kips  |
| # of Small Planters =        | 1              | # of Small Planters =           | 9               |
| # of Large Planters =        | 1              | # of Large Planters =           | 9               |
| Total Weight =               | 33.0 kips      | Total Weight =                  | 162.2 kips      |
| Total Volume =               | 8.2 cy         | Total Volume =                  | 40.1 cy         |
| Caps                         |                |                                 |                 |
| Width =                      | 0.083333 ft    |                                 |                 |
| Height =                     | 0.5 ft         |                                 |                 |
| Length =                     | 983.3854 ft    |                                 |                 |
| Volume =                     | 1.51757 cy     |                                 |                 |

Total Planter Wall Volume = 98 cy

511E81300 48 EACH CONCRETE, MISC.: PRECAST CONCRETE PLINTHS

512E10001 3868 SY SEALING OF CONCRETE SURFACES, AS PER PLAN

This item is for area of graffiti protection

|                     |           |
|---------------------|-----------|
| Abutment            | 313.2 SY  |
| Pier                | 1315.6 SY |
| MSE Wall            | 426.7 SY  |
| Parapets + Planters | 1811.6 SY |

512E10050 2827 SY SEALING OF CONCRETE SURFACES (NON-EPOXY)

|        |           |             |
|--------|-----------|-------------|
| Median | Perimeter | 11 ft       |
|        | Length    | 450.2467 ft |
|        | Area      | 550.3 SQ YD |

|          |           |              |
|----------|-----------|--------------|
| Sidewalk | Perimeter | 45.5 ft      |
|          | Length    | 450.2467 ft  |
|          | Area      | 2276.2 SQ YD |

512E10100 3868 SY SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

Planter Wall Sealer

|                                 |             |
|---------------------------------|-------------|
| Tall Planter Height             | 3.17 ft     |
| Perimeter for Tall Planter Wall | 4.1 ft      |
| Length                          | 522.1 ft    |
| Area                            | 239.3 SQ YD |

|                                  |            |
|----------------------------------|------------|
| Short Planter Height             | 1.67 ft    |
| Perimeter for Short Planter Wall | 2.6 ft     |
| Length                           | 245.3 ft   |
| Area                             | 71.5 SQ YD |

|                            |           |
|----------------------------|-----------|
| Type 1 Height              | 3.17 ft   |
| Perimeter for Planter Wall | 4.1 ft    |
| Length                     | 12.7 ft   |
| Area                       | 5.8 SQ YD |

|                            |            |
|----------------------------|------------|
| Type 2 Height              | 1.50 ft    |
| Perimeter for Planter Wall | 2.5 ft     |
| Length                     | 120.0 ft   |
| Area                       | 32.8 SQ YD |

|                            |           |
|----------------------------|-----------|
| Type 3 Height              | 2.33 ft   |
| Perimeter for Planter Wall | 3.3 ft    |
| Length                     | 12.2 ft   |
| Area                       | 4.5 SQ YD |

|              |                                   |                |
|--------------|-----------------------------------|----------------|
| Edge of Deck | Perimeter for Unit 1 Side of Deck | 3.729166667 ft |
|              | Length                            | 62.9 ft        |
|              | Area                              | 26.1 SQ YD     |

|                                   |          |             |
|-----------------------------------|----------|-------------|
| Perimeter for Unit 2 Side of Deck | 4.125 ft |             |
|                                   | Length   | 320.8 ft    |
|                                   | Area     | 147.0 SQ YD |

|                |         |               |           |                 |          |
|----------------|---------|---------------|-----------|-----------------|----------|
| Bridge Parapet |         | Pilasters     |           | End Pilaster    |          |
| Perimeter      | 11.71   | Perimeter     | 11.3125   | EP1             | 9.083333 |
| Left Length    | 260.50  | Left Length   | 122.92708 | EP2             | 10.34375 |
| Right Length   | 260.50  | Right Length  | 124.08333 | EP3             | 11.5     |
|                |         |               |           | EP4             | 9.083333 |
| Sealing Total  | 6100.04 | Sealing Total | 2794.31   | Width           | 2.166667 |
|                |         |               |           | height          | 13.91667 |
|                |         |               |           | Sealing of Side | 1354.845 |
|                |         |               |           | Sealing of Top  | 86.68924 |

|                       |         |
|-----------------------|---------|
| Approach Slab Parapet |         |
| Perimeter             | 9.50    |
| Left Length           | 64.50   |
| Right Length          | 64.50   |
| Sealing Total         | 1225.50 |

Parapet Total 1284.6 SQ YD

|           |          |            |
|-----------|----------|------------|
|           | Vertical | Horizontal |
| Abutment  | Face     | Face       |
| Rear Abut | 929      | 321.526042 |
| Fwd Abut  | 1202     | 366.625    |
|           |          | 313.2      |

|            |          |            |
|------------|----------|------------|
|            | Vertical | Horizontal |
| MSE Wall   | Face     | Face       |
| Rear Abut  | 862      | 172.44     |
| Rear Left  | 499      | 80.67      |
| Rear Right | 444      | 80.25      |
|            |          | 237.6      |

|           |          |            |
|-----------|----------|------------|
|           | Vertical | Horizontal |
| MSE Wall  | Face     | Face       |
| FWD Abut  | 876      | 172.04     |
| FWD Left  | 249      | 59.8       |
| FWD Right | 287      | 58.3       |
|           |          | 189.1      |

|        |          |            |          |             |
|--------|----------|------------|----------|-------------|
|        | Vertical | Horizontal |          |             |
| Pier 1 | Face     | Face       | Left End | Right End   |
| Cap    | 651      | 903.3      | 31.09375 | 28.19375    |
| Column | Height   | Perimeter  | #        | Area        |
|        | 14.46    | 9.42477796 | 6        | 90.85485954 |

|        |          |            |          |             |
|--------|----------|------------|----------|-------------|
|        | Vertical | Horizontal |          |             |
| Pier 2 | Face     | Face       | Left End | Right End   |
| Cap    | 534      | 408.015    | 26.90625 | 27.46875    |
| Column | Height   | Perimeter  | #        | Area        |
|        | 16.53    | 9.42477796 | 6        | 934.7494781 |

Total= 3867.2 SQ YD

512E33000

61 SY

TYPE 2 WATERPROOFING

Horizontal Construction Joint of Abut.

Width Area

|           |        |       |   |    |
|-----------|--------|-------|---|----|
| Rear Abut | Length | 91.86 | 3 | 31 |
| Fwd Abut  | Length | 91.66 | 3 | 31 |

|                     |        |                                  |                   |                        |        |           |                 |            |
|---------------------|--------|----------------------------------|-------------------|------------------------|--------|-----------|-----------------|------------|
| SPECIAL51267200     | 844 SY | WATERPROOFING FOR PLANTERS AREAS |                   |                        |        |           |                 |            |
| Left Side           |        |                                  |                   |                        |        |           |                 |            |
|                     | Length | Width                            | Height at Parapet | Height at Planter Wall | Number | Plan Area | Side wall Areas | Total Area |
|                     | ft     | ft                               | ft                | ft                     |        | sf        | sf              | sf         |
| Tall Planter at RA  | 23.66  | 3.625                            | 3.42              | 3.42                   | 1      | 86        | 187             | 272        |
| Typ. Short Planter  | 11     | 3                                | 1.92              | 1.92                   | 10     | 330       | 538             | 868        |
| Typ. Tall Planter   | 19.42  | 3.625                            | 3.42              | 3.42                   | 10     | 704       | 1576            | 2280       |
| Short Planter at P1 | 4.96   | 3                                | 1.92              | 1.92                   | 1      | 15        | 31              | 45         |
| Short Planter at P1 | 6.07   | 3                                | 1.92              | 1.92                   | 1      | 18        | 35              | 53         |
| Tall Planter at FA  | 23.65  | 3.625                            | 3.42              | 3.42                   | 1      | 86        | 187             | 272        |
|                     |        |                                  |                   |                        |        | 1239      | 2552            | 3791       |
| Right Side          |        |                                  |                   |                        |        |           |                 |            |
|                     | Length | Width                            | Height at Parapet | Height at Planter Wall | Number | Plan Area | Side wall Areas | Total Area |
|                     | ft     | ft                               | ft                | ft                     |        | sf        | sf              | sf         |
| Tall Planter at RA  | 22.33  | 3.625                            | 3.42              | 3.42                   | 1      | 81        | 178             | 258        |
| Typ. Short Planter  | 11     | 3                                | 1.92              | 1.92                   | 10     | 330       | 538             | 868        |
| Typ. Tall Planter   | 19.42  | 3.625                            | 3.42              | 3.42                   | 10     | 704       | 1576            | 2280       |
| Short Planter at P1 | 4.96   | 3                                | 1.92              | 1.92                   | 1      | 15        | 31              | 45         |
| Short Planter at P1 | 6.07   | 3                                | 1.92              | 1.92                   | 1      | 18        | 35              | 53         |
| Tall Planter at FA  | 26.05  | 3.625                            | 3.42              | 3.42                   | 1      | 94        | 203             | 297        |
|                     |        |                                  |                   |                        |        | 1242      | 2560            | 3802       |
| Total Area =        | 844 sy |                                  |                   |                        |        |           |                 |            |

513E10261 128300 LB STRUCTURAL STEEL MEMBERS, LEVEL 3, AS PER PLAN

|                            |               |                                  |              |
|----------------------------|---------------|----------------------------------|--------------|
| Unit 1                     |               | Intermediate Diaphragm MC18x42.7 |              |
| Beam Length (ft)           | 62.6458333    | Length (ft)                      | 10.510417    |
| Unit Weight (lb/ft)        | 194           | Weight (lb/ft)                   | 42.7         |
| #                          | 9             | Connection Plates                | 110.80862    |
|                            | 109379.625 lb | #                                | 16           |
|                            |               |                                  | 8953.6546 lb |
| Pier 1 Rear End Crossframe |               | Rear Abut End Crossframe         |              |
| W24x68                     | 68 lb/ft      | L 4x4x3/8                        | 9.8 lb/ft    |
| Horizontal Length (ft)     | 10.58         | C = Hor. Length (ft)             | 10.67        |
| #                          | 8             | Assumed Vertical Height (ft)     | 2.5          |
|                            | 5755.52 lb    | 2-Long Slanted Angle (ft)        | 4.35         |
|                            |               | 2-Short Slanted Angle (ft)       | 2.53         |
|                            |               | 3- 1.5x1.5x0.5" Connection Plate | 149.30       |
| Bearing Stiffener          |               | #                                | 8            |

|         |            |         |    |
|---------|------------|---------|----|
| 5 1/2x5 | 112.291667 | 3109.98 | lb |
| #       | 9          |         |    |
|         | 1010.63    |         |    |
| Total   | 128300     |         | lb |

513E10281

1275300 LB STRUCTURAL STEEL MEMBERS, LEVEL 4, AS PER PLAN

| #          | 2     |        |            |             | #      | 2      |            |       |          | #      | 5          |          |       |          |
|------------|-------|--------|------------|-------------|--------|--------|------------|-------|----------|--------|------------|----------|-------|----------|
| Top Flange | Width | Length | Flange Thk |             | Width  | Length | Flange Thk |       | Width    | Length | Flange Thk |          |       |          |
| G1 & 9     | 18    | 30.525 | 0.875      | 1635.949219 | G2 & 8 | 18     | 30.525     | 0.875 | 1635.949 | G3-7   | 18         | 30.525   | 0.875 | 1635.949 |
|            | 18    | 74     | 1.25       | 5665.625    |        | 18     | 74         | 1.25  | 5665.625 |        | 18         | 74       | 1.25  | 5665.625 |
|            | 24    | 34     | 2.25       | 6247.5      |        | 24     | 34         | 2     | 5553.333 |        | 22         | 34       | 1.75  | 4454.236 |
|            | 24    | 26     | 3.5        | 7431.666667 |        | 24     | 26         | 2.75  | 5839.167 |        | 22         | 26       | 2.25  | 4379.375 |
|            | 24    | 47     | 2.25       | 8636.25     |        | 24     | 47         | 2     | 7676.667 |        | 22         | 47       | 1.75  | 6157.326 |
|            | 20    | 72.5   | 1.25       | 6167.534722 |        | 18     | 72.5       | 1.25  | 5550.781 |        | 18         | 72.5     | 1.25  | 5550.781 |
|            | 20    | 36.465 | 0.875      | 2171.440104 |        | 18     | 36.465     | 0.875 | 1954.296 |        | 18         | 36.46512 | 0.875 | 1954.303 |
|            |       | Weight |            | 75911.93142 |        |        | Weight     |       | 67751.64 |        |            | Weight   |       | 148988   |

| #           | 2     |        |            |             | #      | 2      |            |      |          | #      | 5          |          |      |          |
|-------------|-------|--------|------------|-------------|--------|--------|------------|------|----------|--------|------------|----------|------|----------|
| Bot. Flange | Width | Length | Flange Thk |             | Width  | Length | Flange Thk |      | Width    | Length | Flange Thk |          |      |          |
| G1 & 9      | 22    | 30.525 | 1.25       | 2856.419271 | G2 & 8 | 22     | 30.525     | 1.25 | 2856.419 | G3-7   | 20         | 30.525   | 1    | 2077.396 |
|             | 22    | 74     | 1.75       | 9694.513889 |        | 22     | 74         | 1.75 | 9694.514 |        | 20         | 74       | 1.5  | 7554.167 |
|             | 26    | 34     | 2.25       | 6768.125    |        | 24     | 34         | 2.25 | 6247.5   |        | 22         | 34       | 2    | 5090.556 |
|             | 26    | 26     | 3.5        | 8050.972222 |        | 24     | 26         | 3.25 | 6900.833 |        | 22         | 26       | 2.75 | 5352.569 |
|             | 26    | 47     | 2.25       | 9355.9375   |        | 24     | 47         | 2.25 | 8636.25  |        | 22         | 47       | 2    | 7036.944 |
|             | 24    | 72.5   | 2          | 11841.66667 |        | 22     | 72.5       | 1.75 | 9498.003 |        | 20         | 72.5     | 1.75 | 8634.549 |
|             | 24    | 36.465 | 1.5        | 4466.9625   |        | 22     | 36.465     | 1.25 | 3412.263 |        | 20         | 36.46512 | 1.25 | 3102.068 |
|             |       | Weight |            | 106069.1941 |        |        | Weight     |      | 94491.57 |        |            | Weight   |      | 194241.2 |

|     |           |            |            |             |
|-----|-----------|------------|------------|-------------|
|     | #         | 9          |            |             |
| Web | Height    | 66         | 66         | 66          |
|     | Thickness | 0.625      | 0.6875     | 0.625       |
|     | Length    | 104.525    | 107        | 108.965     |
|     |           | 14671.6081 | 16520.9115 | 15294.82682 |
|     | Weight    | 418386.117 |            |             |

1105839.7

#### Bearing Stiffeners

|        | Width      | Thk  | Height |          |
|--------|------------|------|--------|----------|
| G1 & 9 | Pier 1 FWD | 8.5  | 1      | 66       |
|        | Pier 2     | 11.5 | 1.25   | 66       |
|        | FWD Abut   | 8.5  | 1      | 66       |
| G2-8   | Pier 1 FWD | 8.5  | 1      | 66       |
|        | Pier 2     | 10.5 | 1.25   | 66       |
|        | FWD Abut   | 8.5  | 1      | 66       |
|        |            |      | Weight | 10241.94 |

#### Splice Plates

|          |            |            |                       |        |
|----------|------------|------------|-----------------------|--------|
| Splice 1 | Web Plates |            | Bolts                 | 44     |
|          | Height     | 4.71       | #                     | 9      |
|          | Width      | 1.20833333 | Bolt Length           | 3.6875 |
|          | Thk        | 0.5        | Bolt Wt. Per 100 each | 157    |

|                       |        |            |            |            |             |            |            |           |          |          |          |
|-----------------------|--------|------------|------------|------------|-------------|------------|------------|-----------|----------|----------|----------|
| #                     |        | 9          |            | waher      |             | 11.3       |            |           |          |          |          |
|                       |        | 2091.53438 |            | 666.468    |             |            |            |           |          | 2758.002 |          |
|                       |        | Top Flange | G1         | G2         | G3          | G4         | G5         | G6        | G7       | G8       | G9       |
| Top D                 | Length | 3.208333   | 3.20833333 | 2.70833333 | 2.708333333 | 2.70833333 | 2.70833333 | 2.7083333 | 2.708333 | 3.208333 | 3.208333 |
|                       | Width  | 1.5        | 1.5        | 1.5        | 1.5         | 1.5        | 1.5        | 1.5       | 1.5      | 1.5      | 1.5      |
|                       | Thk    | 0.75       | 0.75       | 0.75       | 0.75        | 0.75       | 0.75       | 0.75      | 0.75     | 0.75     | 0.75     |
|                       |        | 147.3828   | 147.382813 | 124.414063 | 124.4140625 | 124.41406  | 124.41406  | 124.4141  | 147.3828 | 147.3828 | 1211.602 |
| Top Fill PL           | Length | 1.604167   | 1.60416667 | 1.35416667 | 1.354166667 | 1.3541667  | 1.3541667  | 1.354167  | 1.604167 | 1.604167 |          |
|                       | Width  | 1.5        | 1.5        | 1.5        | 1.5         | 1.5        | 1.5        | 1.5       | 1.5      | 1.5      |          |
|                       | Thk    | 1          | 0.75       | 0.5        | 0.5         | 0.5        | 0.5        | 0.5       | 0.75     | 1        |          |
|                       |        | 98.25521   | 73.6914063 | 41.4713542 | 41.47135417 | 41.471354  | 41.471354  | 41.47135  | 73.69141 | 98.25521 | 551.25   |
| Inside E              | Length | 3.208333   | 3.20833333 | 2.70833333 | 2.708333333 | 2.70833333 | 2.70833333 | 2.7083333 | 3.208333 | 3.208333 |          |
|                       | Width  | 16         | 16         | 16         | 16          | 16         | 16         | 16        | 16       | 16       |          |
|                       | Thk    | 0.75       | 0.75       | 0.75       | 0.75        | 0.75       | 0.75       | 0.75      | 0.75     | 0.75     |          |
|                       |        | 131.0069   | 131.006944 | 110.590278 | 110.5902778 | 110.59028  | 110.59028  | 110.5903  | 131.0069 | 131.0069 | 1076.979 |
| Bolts                 |        | 48         | 48         | 40         | 40          | 40         | 40         | 40        | 48       | 48       |          |
| Bolt Length           |        | 5.75       | 5.5        | 5.25       | 5.25        | 5.25       | 5.25       | 5.25      | 5.5      | 5.75     |          |
| Bolt Wt. Per 100 each |        | 201        | 196        | 190        | 190         | 190        | 190        | 190       | 196      | 201      |          |
| waher                 |        | 11.3       | 11.3       | 11.3       | 11.3        | 11.3       | 11.3       | 11.3      | 11.3     | 11.3     |          |
|                       |        | 101.904    | 99.504     | 80.52      | 80.52       | 80.52      | 80.52      | 80.52     | 99.504   | 101.904  | 805.416  |

|                       |        |            |            |            |             |            |            |           |          |          |          |
|-----------------------|--------|------------|------------|------------|-------------|------------|------------|-----------|----------|----------|----------|
|                       |        | Bot Flange | G1         | G2         | G3          | G4         | G5         | G6        | G7       | G8       | G9       |
| Bottom D              | Length | 3.208333   | 3.20833333 | 3.70833333 | 3.708333333 | 3.70833333 | 3.70833333 | 3.7083333 | 3.708333 | 3.208333 |          |
|                       | Width  | 1.83       | 1.83       | 1.67       | 1.67        | 1.67       | 1.67       | 1.67      | 1.67     | 1.83     | 1.83     |
|                       | Thk    | 1          | 1          | 1          | 1           | 1          | 1          | 1         | 1        | 1        | 1        |
|                       |        | 239.7427   | 239.742708 | 252.877431 | 252.8774306 | 252.87743  | 252.87743  | 252.8774  | 239.7427 | 239.7427 | 2223.358 |
| Bot Fill PL           | Length | 1.604167   | 1.60416667 | 1.85416667 | 1.854166667 | 1.8541667  | 1.8541667  | 1.854167  | 1.604167 | 1.604167 |          |
|                       | Width  | 1.83       | 1.83       | 1.67       | 1.67        | 1.67       | 1.67       | 1.67      | 1.67     | 1.83     | 1.83     |
|                       | Thk    | 0.5        | 0.5        | 0.5        | 0.5         | 0.5        | 0.5        | 0.5       | 0.5      | 0.5      |          |
|                       |        | 59.93568   | 59.9356771 | 63.2193576 | 63.21935764 | 63.219358  | 63.219358  | 63.21936  | 59.93568 | 59.93568 | 555.8395 |
| Inside E              | Length | 3.208333   | 3.20833333 | 3.70833333 | 3.708333333 | 3.70833333 | 3.70833333 | 3.7083333 | 3.208333 | 3.208333 |          |
|                       | Width  | 20         | 20         | 18         | 18          | 18         | 18         | 18        | 20       | 20       |          |
|                       | Thk    | 1.125      | 1.125      | 1.125      | 1.125       | 1.125      | 1.125      | 1.125     | 1.125    | 1.125    |          |
|                       |        | 245.638    | 245.638021 | 255.527344 | 255.5273438 | 255.52734  | 255.52734  | 255.5273  | 245.638  | 245.638  | 2260.189 |
| Bolts                 |        | 72         | 72         | 56         | 56          | 56         | 56         | 56        | 72       | 72       |          |
| Bolt Length           |        | 6.375      | 6.375      | 6.125      | 6.125       | 6.125      | 6.125      | 6.125     | 6.375    | 6.375    |          |
| Bolt Wt. Per 100 each |        | 218        | 218        | 212        | 212         | 212        | 212        | 212       | 218      | 218      |          |
| waher                 |        | 11.3       | 11.3       | 11.3       | 11.3        | 11.3       | 11.3       | 11.3      | 11.3     | 11.3     |          |
|                       |        | 165.096    | 165.096    | 125.048    | 125.048     | 125.048    | 125.048    | 125.048   | 165.096  | 165.096  | 1285.624 |

#### Splice Plates

|          |            |            |  |                       |  |        |  |  |  |          |  |
|----------|------------|------------|--|-----------------------|--|--------|--|--|--|----------|--|
| Splice 2 | Web Plates |            |  | Bolts                 |  | 44     |  |  |  |          |  |
|          | Height     | 4.375      |  | #                     |  | 9      |  |  |  |          |  |
|          | Width      | 1.20833333 |  | Bolt Length           |  | 3.6875 |  |  |  |          |  |
|          | Thk        | 0.5        |  | Bolt Wt. Per 100 each |  | 157    |  |  |  |          |  |
|          | #          | 9          |  | waher                 |  | 11.3   |  |  |  |          |  |
|          |            | 1942.77344 |  | 666.468               |  |        |  |  |  | 2609.241 |  |

|            |    |    |    |    |    |    |    |    |    |
|------------|----|----|----|----|----|----|----|----|----|
| Top Flange | G1 | G2 | G3 | G4 | G5 | G6 | G7 | G8 | G9 |
|------------|----|----|----|----|----|----|----|----|----|

|                   |                       |          |            |            |              |            |            |           |          |          |          |
|-------------------|-----------------------|----------|------------|------------|--------------|------------|------------|-----------|----------|----------|----------|
| Top D             | Length                | 3.708333 | 3.20833333 | 2.70833333 | 2.7083333333 | 2.70833333 | 2.70833333 | 2.7083333 | 3.208333 | 3.708333 |          |
|                   | Width                 | 1.67     | 1.5        | 1.5        | 1.5          | 1.5        | 1.5        | 1.5       | 1.5      | 1.67     |          |
|                   | Thk                   | 0.75     | 0.75       | 0.75       | 0.75         | 0.75       | 0.75       | 0.75      | 0.75     | 0.75     |          |
| Top Fill PL       |                       | 189.6581 | 147.382813 | 124.414063 | 124.4140625  | 124.41406  | 124.41406  | 124.4141  | 147.3828 | 189.6581 | 1296.152 |
|                   | Length                | 1.854167 | 1.60416667 | 1.35416667 | 1.354166667  | 1.3541667  | 1.3541667  | 1.354167  | 1.604167 | 1.854167 |          |
|                   | Width                 | 1.67     | 1.5        | 1.5        | 1.5          | 1.5        | 1.5        | 1.5       | 1.5      | 1.67     |          |
| Inside E          | Thk                   | 1        | 0.75       | 0.5        | 0.5          | 0.5        | 0.5        | 0.5       | 0.75     | 1        |          |
|                   |                       | 126.4387 | 73.6914063 | 41.4713542 | 41.47135417  | 41.471354  | 41.471354  | 41.47135  | 73.69141 | 126.4387 | 607.617  |
|                   | Length                | 3.708333 | 3.20833333 | 2.70833333 | 2.7083333333 | 2.70833333 | 2.70833333 | 2.7083333 | 3.208333 | 3.708333 |          |
| 1" DIA            | Width                 | 18       | 16         | 16         | 16           | 16         | 16         | 16        | 16       | 18       |          |
|                   | Thk                   | 0.75     | 0.75       | 0.75       | 0.75         | 0.75       | 0.75       | 0.75      | 0.75     | 0.75     |          |
|                   |                       | 170.3516 | 131.006944 | 110.590278 | 110.5902778  | 110.59028  | 110.59028  | 110.5903  | 131.0069 | 170.3516 | 1155.668 |
| Bot Flange        | Bot Bolts             | 56       | 48         | 40         | 40           | 40         | 40         | 40        | 48       | 56       |          |
|                   | Bolt Length           | 5.75     | 5.5        | 5.25       | 5.25         | 5.25       | 5.25       | 5.25      | 5.5      | 5.75     |          |
|                   | Bolt Wt. Per 100 each | 201      | 196        | 190        | 190          | 190        | 190        | 190       | 196      | 201      |          |
|                   | waher                 | 11.3     | 11.3       | 11.3       | 11.3         | 11.3       | 11.3       | 11.3      | 11.3     | 11.3     |          |
|                   |                       | 118.888  | 99.504     | 80.52      | 80.52        | 80.52      | 80.52      | 80.52     | 99.504   | 118.888  | 839.384  |
|                   |                       |          |            |            |              |            |            |           |          |          |          |
| Bottom D          | Length                | 3.708333 | 3.20833333 | 3.70833333 | 3.7083333333 | 3.70833333 | 3.70833333 | 3.7083333 | 3.208333 | 3.708333 |          |
|                   | Width                 | 2        | 1.83       | 1.67       | 1.67         | 1.67       | 1.67       | 1.67      | 1.83     | 2        |          |
|                   | Thk                   | 1.125    | 1          | 1          | 1            | 1          | 1          | 1         | 1        | 1.125    |          |
| Bot Fill PL       |                       | 340.7031 | 239.742708 | 252.877431 | 252.8774306  | 252.87743  | 252.87743  | 252.8774  | 239.7427 | 340.7031 | 2425.279 |
|                   | Length                | 1.854167 | 1.60416667 | 1.85416667 | 1.854166667  | 1.8541667  | 1.8541667  | 1.854167  | 1.604167 | 1.854167 |          |
|                   | Width                 | 2        | 1.83       | 1.67       | 1.67         | 1.67       | 1.67       | 1.67      | 1.83     | 2        |          |
| Inside E          | Thk                   | 0.25     | 0.5        | 0.25       | 0.25         | 0.25       | 0.25       | 0.25      | 0.5      | 0.25     |          |
|                   |                       | 37.8559  | 59.9356771 | 31.6096788 | 31.60967882  | 31.609679  | 31.609679  | 31.60968  | 59.93568 | 37.8559  | 353.6316 |
|                   | Length                | 3.708333 | 3.20833333 | 3.70833333 | 3.7083333333 | 3.70833333 | 3.70833333 | 3.7083333 | 3.208333 | 3.708333 |          |
|                   | Width                 | 22       | 20         | 18         | 18           | 18         | 18         | 18        | 20       | 22       |          |
|                   | Thk                   | 1.25     | 1.125      | 1.125      | 1.125        | 1.125      | 1.125      | 1.125     | 1.125    | 1.25     |          |
|                   |                       | 347.0124 | 245.638021 | 255.527344 | 255.5273438  | 255.52734  | 255.52734  | 255.5273  | 245.638  | 347.0124 | 2462.938 |
|                   | Bolts                 | 84       | 72         | 56         | 56           | 56         | 56         | 56        | 72       | 84       |          |
|                   | Bolt Length           | 6.625    | 6.375      | 6.125      | 6.125        | 6.125      | 6.125      | 6.125     | 6.375    | 6.625    |          |
|                   | Bolt Wt. Per 100 each | 223      | 218        | 212        | 212          | 212        | 212        | 212       | 218      | 223      |          |
|                   | waher                 | 11.3     | 11.3       | 11.3       | 11.3         | 11.3       | 11.3       | 11.3      | 11.3     | 11.3     |          |
|                   |                       | 196.812  | 165.096    | 125.048    | 125.048      | 125.048    | 125.048    | 125.048   | 165.096  | 196.812  | 1349.056 |
|                   |                       |          |            |            |              |            |            |           |          |          |          |
| Total Splices Wt. |                       |          |            |            |              |            |            |           |          | 25827.23 |          |

#### Type 2 Intermediate Diaphragm

|                           |                 |           |        |
|---------------------------|-----------------|-----------|--------|
| L 5x5x1/2                 | 16.2 lb/ft      | #         | Weight |
| Hor. Length (ft)          | 9.18229167      | 2         | 297.51 |
| Diag. Length (ft)         | 9.65104167      | 2         | 312.69 |
| Fill Plate =              |                 | 17        |        |
| Connection Plate          | 1/2x7.75"x5'-6" | No. of PL | Weight |
|                           | 0.14800347      | 2         | 145.04 |
| Gusset plate area=        |                 | 1.5 SF    |        |
| Gusset plate Weight =     |                 | 122.50000 |        |
| Bolts                     | 32              | 45.12     |        |
| # Diaphragm               |                 | 88        |        |
|                           |                 | 82670.873 | lb     |
| Pier 1 FWD End Crossframe |                 |           |        |
| MC12x45                   | 45 lb/ft        |           |        |

#### Type 3 Intermediate Diaphragm

|                         |                 |           |        |
|-------------------------|-----------------|-----------|--------|
| L 6x6x5/8               | 24.2 lb/ft      | #         | Weight |
| Hor. Length (ft)        | 9.182292        | 1         | 148.75 |
| Diag. Length (ft)       | 9.40625         | 2         | 304.76 |
| Hor. Length (ft)        | 9.182292        | 1         | 222.21 |
| Connection Plate        | 1/2x7.75"x5'-6" | No. of PL | Weight |
|                         | 0.148003        | 2         | 145.04 |
| Gusset plate area=      |                 | 1.5 SF    |        |
| Gusset plate Weight =   |                 | 122.500   |        |
| Bolts                   | 32              | 45.12     |        |
| # Diaphragm             |                 | 40        |        |
|                         |                 | 39535.619 | lb     |
| Fwd Abut End Crossframe |                 |           |        |
| L 4x4x3/8               | 9.8 lb/ft       |           |        |

|                                     |            |                                  |            |
|-------------------------------------|------------|----------------------------------|------------|
| Horizontal Channel (ft)             | 10.34      | C = Hor. Length (ft)             | 10.66      |
| L 4x4x3/8                           | 9.8 lb/ft  | Assumed Vetical Height (ft)      | 5          |
| C = Hor. Length (ft)                | 10.34      | 2-Long Slanted Angle (ft)        | 6.13       |
| Assumed Vetical Height (ft)         | 4          | 2-Short Slanted Angle (ft)       | 5.07       |
| 2-Long Slanted Angle (ft)           | 5.28       | 3- 1.5x1.5x0.5" Connection Plate | 0.28 cu ft |
| 2-Short Slanted Angle (ft)          | 4.06       | #                                | 8          |
| 3- 1.9167x1.5x0.5" Connection Plate | 0.36 cu ft |                                  | 3694.46 lb |
| #                                   | 8          |                                  |            |
|                                     | 7405.60 lb |                                  |            |

Total Weight 1275300 lb

513E20000

9784 EACH WELDED STUD SHEAR CONNECTORS

Unit 1 285 each per beam  
# Beam 9

2565 each

|        |    |    |    |    |            |    |
|--------|----|----|----|----|------------|----|
| Unit 2 | G1 | 21 | 66 | 83 | 68         | 20 |
|        | G2 | 21 | 66 | 83 | 69         | 20 |
|        | G3 | 21 | 66 | 83 | 69         | 20 |
|        | G4 | 21 | 65 | 83 | 69         | 20 |
|        | G5 | 21 | 65 | 83 | 70         | 20 |
|        | G6 | 21 | 65 | 83 | 70         | 20 |
|        | G7 | 21 | 65 | 83 | 70         | 20 |
|        | G8 | 21 | 65 | 83 | 70         | 20 |
|        | G9 | 21 | 65 | 83 | 70         | 20 |
|        |    |    |    |    | 6987 each. |    |

On End Crossframe

Pier 1 Rear 160 each

Pier 1 FWD 72 each

Total = 9784 each

514E00060

15361 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT

Unit 1 Fascia Deduct the 10 ft. ends at Rear Abut and Pier 1

Fascia Beam W 36x194

Beam Length (ft) 62.6458333

Deduct Ends (ft) 20

Half of Top Flange (in) 6.05

Web (in) 35.48

Bot. Flange (in) 29.24

# 2  
503.01 sq ft

Unit 2 Fascia Deduct 5 ft. each end of the splices and 10 ft. at Pier 1 and FWD Abut.

| Top Flange | Width | Length | Flange Thk |          | Bot. Flange | Width | Length | Flange Thk |          |
|------------|-------|--------|------------|----------|-------------|-------|--------|------------|----------|
| G1 & 9     | 18    | 20.525 | 0.875      | 15.39375 | G1 & 9      | 22    | 20.525 | 1.25       | 79.53438 |
|            | 18    | 69     | 1.25       | 51.75    |             | 22    | 69     | 1.75       | 273.125  |
|            | 24    | 29     | 2.25       | 29       |             | 26    | 29     | 2.25       | 136.5417 |

### Unit 1 Beam Ends at Rear Abutment and Pier 1

Unit 2 Beam Ends at FWD Abutment and Pier 1

### End Crossframe at Rear Abut

### Pier 1 Rear End Crossframe

Bridge Estimated Quantities  
5/6/2025

|                                  |            |
|----------------------------------|------------|
| Assumed Vertical Height (ft)     | 2.5        |
| 2-Long Slanted Angle (ft)        | 4.34739897 |
| 2-Short Slanted Angle (ft)       | 2.53448439 |
| 3- 1.5x1.5x0.5" Connection Plate | 13.5       |
| #                                | 8          |
|                                  | 404.626845 |

|                        |         |
|------------------------|---------|
| Web (in)               | 22.53   |
| Horizontal Length (ft) | 10.58   |
| #                      | 8       |
|                        | 588.248 |

#### Pier 1 FWD End Crossframe

MC12x45

|                         |        |
|-------------------------|--------|
| Parameter (in)          | 40     |
| Horizontal Channel (ft) | 10.34  |
| #                       | 8      |
|                         | 275.73 |

#### Fwd Abut End Crossframe

L 4x4x3/8

|                                  |          |
|----------------------------------|----------|
| Parameter (in)                   | 16       |
| C = Hor. Length (ft)             | 10.65625 |
| Assumed Vertical Height (ft)     | 5        |
| 2-Long Slanted Angle (ft)        | 6.133294 |
| 2-Short Slanted Angle (ft)       | 5.068969 |
| 3- 1.5x1.5x0.5" Connection Plate | 13.5     |
| #                                | 8        |
|                                  | 496.6483 |

Crossframe Total 1765.26

#### Bearing Stiffener Plates

|        | Size                    | Width | Thk  | Height | #  | Area                                                               |
|--------|-------------------------|-------|------|--------|----|--------------------------------------------------------------------|
| G1 & 9 | Pier 1 FWD              | 8.5   | 1    | 66     | 4  | 31.2                                                               |
|        | Pier 2                  | 11.5  | 1.25 | 66     |    |                                                                    |
|        | FWD Abut                | 8.5   | 1    | 66     | 4  | 31.2                                                               |
| G2-8   | Pier 1 FWD              | 8.5   | 1    | 66     | 14 | 109.1                                                              |
|        | Pier 2                  | 10.5  | 1.25 | 66     |    |                                                                    |
|        | FWD Abut                | 8.5   | 1    | 66     | 14 | 109.1                                                              |
|        | Bearing Stiffener Total |       |      |        |    | <span style="border: 1px solid black; padding: 2px;">280.50</span> |

Total Paint Area 15361 SF

514E00066 15361 SF FIELD PAINTING STRUCTURAL STEEL, FINISH COAT

516E10010 182 FT ARMORLESS PREFORMED JOINT SEAL

Added 2 ft. for the turn ups at Curb of sidewalk

516E10011 11 FT ARMORLESS PREFORMED JOINT SEAL, AS PER PLAN

3.6875 ft (vertical planter joint)  
1.5 ft (horizontal planter joint)  
2 # of Joints  
10.375 ft (TOTAL)

516E11211 258 FT STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN

Rear Abut 88.4795 ft

Pier 1 80.7708333

FWD Abut 88.2708333 ft

Total 257.521167 ft

|           |                                |                                       |
|-----------|--------------------------------|---------------------------------------|
| 516E13000 | 81 SF                          | 1/4" PREFORMED EXPANSION JOINT FILLER |
|           | Length of the PEJF Filler      | 0.79166667 ft                         |
|           | AVG. Height of the PEJF Filler | 2.33333333 ft                         |
|           | # of Short Planter Wall Faces  | 44                                    |
|           | Total Area                     | 81 SQ FT                              |

516E13200 64 SF 1/2" PREFORMED EXPANSION JOINT FILLER

In front of the proposed walk of the Rear Abut  
By Cadd  
Area 64 SF

516E13900 356 SF 2" PREFORMED EXPANSION JOINT FILLER

|           |           |                                                                        |          |           |                                                                      |
|-----------|-----------|------------------------------------------------------------------------|----------|-----------|----------------------------------------------------------------------|
| Rear Abut | Length    | 6.60396381 ft                                                          | MSE Wall | Length LT | 30.8125                                                              |
|           | Height RT | 10.44 ft                                                               | Turnback | Length RT | 30.8125                                                              |
|           | Height LT | 11.09 ft                                                               |          | Height    | 2                                                                    |
|           |           | <span style="border: 1px solid black; padding: 2px;">50.8854276</span> |          |           | <span style="border: 1px solid black; padding: 2px;">123.25</span>   |
| FWD Abut  | Length    | 6.61589098 ft                                                          | MSE Wall | Length LT | 29.52083                                                             |
|           | Height RT | 14.3 ft                                                                | Turnback | Length RT | 30.8125                                                              |
|           | Height LT | 13.37 ft                                                               |          | Height    | 2                                                                    |
|           |           | <span style="border: 1px solid black; padding: 2px;">61.654282</span>  |          |           | <span style="border: 1px solid black; padding: 2px;">120.6667</span> |
| Total     |           | 356.456376 sq ft                                                       |          |           |                                                                      |

516E44101 9 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (13"x12"x2.358" EXP. BEARING)

rear abut 9 each  
Size 1'-1"x1'-0"x2.358"

516E44101 9 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (13"x12"x2.358" FIXED BEARING)

Pier 1 Rear Fixed BRG 9 each  
Size 1'-1"x1'-0"x2.358"

516E44201 4 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (23"x18"x3.448" FIXED BEARING)

Pier 2 4 each  
Size 1'-11"x1'-6"x3.448"

516E44201 5 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (20"x15"x3.448" FIXED BEARING)

Pier 2 5 each  
Size 1'-8"x1'-3"x3.448"

|           |            |                                                                                                                  |
|-----------|------------|------------------------------------------------------------------------------------------------------------------|
| 516E44301 | 4 EACH     | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (18"x14"x4.068" EXP. BEARING) |
|           | Pier 1 FWD | 4 each                                                                                                           |
|           | Size       | 1'-6"x1'-2"x4.068"                                                                                               |
| 516E44301 | 5 EACH     | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (16"x13"x4.068" EXP. BEARING) |
|           | Pier 1 FWD | 5 each                                                                                                           |
|           | Size       | 1'-4"x1'-1"x4.068"                                                                                               |
| 516E44301 | 4 EACH     | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (19"x16"x4.068" EXP. BEARING) |
|           | FWD Abut   | 4 each                                                                                                           |
|           | Size       | 1'-7"x1'-4"x4.068"                                                                                               |
| 516E44301 | 5 EACH     | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (17"x13"x4.068" EXP. BEARING) |
|           | FWD Abut   | 5 each                                                                                                           |
|           | Size       | 1'-5"x1'-1"x4.068"                                                                                               |

|           |       |                                                             |
|-----------|-------|-------------------------------------------------------------|
| 517E76300 | 29 FT | RAILING, MISC.: SIDEWALK RAILING AT REAR ABUTMENT MSE WALLS |
|           |       | 15.3333333 ft left side                                     |
|           |       | 13 ft right side                                            |
|           | Total | 28.3333333 ft                                               |

|           |                               |                                  |
|-----------|-------------------------------|----------------------------------|
| 518E20000 | 276 SY                        | PREFABRICATED GEOCOMPOSITE DRAIN |
|           | Plan Areas from Waterproofing |                                  |
|           | Plan Area (Left) =            | 1239 sf                          |
|           | Plan Area (Right) =           | 1242 sf                          |
|           | Total =                       | 2481 sf                          |
|           |                               | 276 sy                           |

|           |                               |                                                     |
|-----------|-------------------------------|-----------------------------------------------------|
| 518E21201 | 65 CY                         | POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN |
|           | Plan Areas from Waterproofing |                                                     |
|           | Plan Area (Left) =            | 1239 sf                                             |
|           | Plan Area (Right) =           | 1242 sf                                             |
|           | Thickness =                   | 0.5 ft                                              |
|           | Volume (Left) =               | 22.9 cy                                             |
|           | Volume (Right) =              | 23.0 cy                                             |
|           | Additional Area (Left) =      | 543.7 sf                                            |
|           | Additional Area (Right) =     | 545.5 sf                                            |
|           | Additional Thickness =        | 0.25 ft                                             |
|           | Additional Volume (Left) =    | 5.0 cy                                              |
|           | Additional Volume (Right) =   | 5.1 cy                                              |

|                                 |         |
|---------------------------------|---------|
| Total Volume in Planter Areas = | 56.0 cy |
| Length of Pot =                 | 6 ft    |
| Width of Pot =                  | 3 ft    |
| Thk in Pot =                    | 0.25 ft |
| # of Pots =                     | 48      |
| Total Volume in Pots =          | 8.0 cy  |
| Total Volume =                  | 65 cy   |

518E39800 767 FT 4" PERFORATED CORRUGATED PLASTIC PIPE

|            |        |
|------------|--------|
| Left side  | 383.25 |
| Right side | 384.16 |
|            | 767    |

518E62100 89 FT STRUCTURE DRAINAGE, MISC.: NEOPRENE TROUGH AND DRAINAGE OUTLETS  
88.47917 ft

523E20000 4 EACH DYNAMIC LOAD TESTING

523E20500 4 EACH RESTRIKE

526E30011 602 SY REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN

|       |             |
|-------|-------------|
| Rear  | 301.1 sq yd |
| Fwd   | 301.1 sq yd |
| Total | 602.2       |

526E90030 180 FT TYPE C INSTALLATION  
180.1327 ft

SPECIALE53014000 LS STRUCTURAL SURVEY AND MONITORING OF VIBRATION

601E21001 69 SY CONCRETE SLOPE PROTECTION, AS PER PLAN

|                      |       |
|----------------------|-------|
| In front of Abutment |       |
| Rear Abut            | 93.40 |
| Fwd Abut             | 93.18 |
| Width                | 3.33  |
| Area                 | 69    |

605E13301 500 FT 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN

|                     |                   |                                                            |
|---------------------|-------------------|------------------------------------------------------------|
| Rear Abutment Pipe: | 73.83333 ft       | (from backface of abutment backwall to drainage structure) |
|                     | 2 number of pipes |                                                            |
| Fwd. Abutment Pipe: | 83.83333 ft       | (from backface of abutment backwall to drainage structure) |
|                     | 2 number of pipes |                                                            |
| Pier 1 Pipe:        | 184 ft            | (from bottom of column to drainage structure)              |

605E98300      20 EACH      UNDERDRAINS, MISC.: CLEANOUT

|                    |    |                              |
|--------------------|----|------------------------------|
| Left Planter Wall  | 10 | High point has two clear out |
| Right Planter Wall | 10 | on scratch 13 level          |

605E98300      4 EACH      UNDERDRAINS, MISC.: DRAINAGE OUTLET AT ABUTMENT

605E98300      2 EACH      UNDERDRAINS, MISC.: DRAINAGE OUTLET AT PIER 1

607E39931      728 FT      VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC, AS PER PLAN

|                 |        |                                |
|-----------------|--------|--------------------------------|
| Length per side | 364 ft | (includes allowance for grade) |
| # of sides      | 2      |                                |
| Total length    | 728 ft |                                |

608E40001      384 FT      CONCRETE STEPS, TYPE A, AS PER PLAN

|                      |                       |
|----------------------|-----------------------|
| Stairs               | 36 steps              |
|                      | 5 landing/sloped tops |
| Width of Landing     | 9 ft                  |
| Width of Step        | 9.375 ft              |
| Total Length of Step | 384.375 ft            |

659E00300      284 CY      TOPSOIL

|                                 |               |
|---------------------------------|---------------|
| Plan Areas from Waterproofing   |               |
| Plan Area (Tall Planters) =     | 1755 sf       |
| Plan Area (Short Planters) =    | 726 sf        |
| Thickness (Tall Planters) =     | 3.08333333 ft |
| Thickness (Short Planters) =    | 1.58333333 ft |
| Volume (Tall Planters) =        | 200.4 cy      |
| Volume (Short Planters) =       | 42.6 cy       |
| Volume Adjustment (Left) =      | -5.0 cy       |
| Volume Adjustment (Right) =     | -5.1 cy       |
| Total Volume in Planter Areas = | 232.9 cy      |
|                                 |               |
| Length of Pot =                 | 6 ft          |
| Width of Pot =                  | 3 ft          |
| Thk in Pot =                    | 1.58333333 ft |
| # of Pots =                     | 48            |
| Total Volume in Pots =          | 50.7 cy       |

|                |        |
|----------------|--------|
| Total Volume = | 284 cy |
|----------------|--------|

|                                 |               |       |
|---------------------------------|---------------|-------|
| 661E00500                       | 21 CY         | MULCH |
| Plan Areas from Waterproofing   |               |       |
| Plan Area (Tall Planters) =     | 1755 sf       |       |
| Plan Area (Short Planters) =    | 726 sf        |       |
| Thickness =                     | 0.16666667 ft |       |
| Volume (Tall Planters) =        | 10.8 cy       |       |
| Volume (Short Planters) =       | 4.5 cy        |       |
| Total Volume in Planter Areas = | 15.3 cy       |       |
| Length of Pot =                 | 6 ft          |       |
| Width of Pot =                  | 3 ft          |       |
| Thk in Pot =                    | 0.16666667 ft |       |
| # of Pots =                     | 48            |       |
| Total Volume in Pots =          | 5.3 cy        |       |
| Total Volume =                  | 21 cy         |       |

|                  |         |                         |
|------------------|---------|-------------------------|
| SPECIALE69098000 | 4 EACH  | BRIDGE PILASTER LETTERS |
| SPECIALE69098000 | 48 EACH | PLANTER POTS            |

|        |         |
|--------|---------|
| Unit 1 | 8 each  |
| Unit 2 | 40 each |
| Total  | 48 each |

|           |         |                                    |
|-----------|---------|------------------------------------|
| 840E20000 | 6010 SF | MECHANICALLY STABILIZED EARTH WALL |
|-----------|---------|------------------------------------|

|            |        |        |           |
|------------|--------|--------|-----------|
| Rear Abut  | Length | Height | Area      |
| Front Wall | 93.40  | 12.66  | 1182.3913 |
| Left Wall  |        |        | 940       |
| Right Wall |        |        | 905       |
|            |        |        | 3027      |
| Fwd Abut   | Length | Height | Area      |
| Front Wall | 93.18  | 13.07  | 1217.8245 |
| Left Wall  |        |        | 872       |
| Right Wall |        |        | 893       |
|            |        |        | 2983      |

|           |         |                 |
|-----------|---------|-----------------|
| 840E21000 | 3033 CY | WALL EXCAVATION |
|-----------|---------|-----------------|

|            |                                 |       |
|------------|---------------------------------|-------|
| Rear Abut  |                                 |       |
| Right wall | Area of Excavation              | 362   |
|            | Width of Excavation             | 19.33 |
| Left wall  | Area of Excavation              | 386   |
|            | Width of Excavation To Point 11 | 19.29 |

|            |                            |       |
|------------|----------------------------|-------|
| Front Wall | Area of Excavation @ Left  | 144.2 |
|            | Area of Excavation @ Right | 183.2 |
|            | Average Excavation Area    | 163.7 |
|            | Length of Excavation       | 98.9  |

|            |                            |         |
|------------|----------------------------|---------|
| Fwd Abut   |                            |         |
| Right wall | Area of Excavation         | 298     |
|            | Width of Excavation        | 23.29   |
| Left wall  | Area of Excavation         | 317     |
|            | Width of Excavation        | 22.29   |
| Front Wall | Area of Excavation @ Left  | 375     |
|            | Area of Excavation @ Right | 380     |
|            | Average Excavation Area    | 377.5   |
|            | Width of Excavation        | 98.67   |
| Total Vol  |                            | 3033 CY |

840E22000 717 SY FOUNDATION PREPARATION

|           |           |
|-----------|-----------|
| Rear Abut | 3357.4 SF |
| Fwd Abut  | 3096 SF   |
|           | 717 SY    |

840E23000 3283 CY SELECT GRANULAR BACKFILL

|            |              |        |       |  |
|------------|--------------|--------|-------|--|
| Rear Abut  |              |        |       |  |
| Front wall | Narrow       | Length | 51.53 |  |
|            |              | Width  | 21    |  |
|            | 6" Above Ftg | Height | 13.16 |  |
|            |              | Width  | 30.92 |  |
|            |              | Height | 1     |  |
| Left Wall  |              | Area   | 707   |  |
|            |              | Width  | 19    |  |
| Right Wall |              | Area   | 685   |  |
|            |              | Width  | 18    |  |
|            |              |        | 1541  |  |

|          |              |        |        |       |
|----------|--------------|--------|--------|-------|
| Fwd Abut |              |        |        |       |
|          | Front wall   | Narrow | Length | 50.39 |
|          |              |        | Width  | 22    |
|          |              |        | Height | 13.57 |
|          | 6" Above Ftg | Width  | 33.98  |       |
|          |              | Height | 1      |       |
|          | Right Wall   | Area   | 788    |       |
|          |              | Width  | 20     |       |
|          | Left Wall    | Area   | 764    |       |
|          |              | Width  | 19     |       |
|          |              |        |        | 1742  |

840E25010      665 FT      6" DRAINAGE PIPE, PERFORATED

Rear Abut      361

Fwd Abut      304.3

840E25020      60 FT      6" DRAINAGE PIPE, NON-PERFORATED

assume 15 ft each corner

840E26000      420 FT      CONCRETE COPING

Rear Abut

Front      94.06

Right Wall      61.5

Left Wall      63.1

219

Fwd Abut

Front      93.84

Left/Right Wall      53.5

#      2

201

840E26050      2812 SF      AESTHETIC SURFACE TREATMENT

1 ft. below prop. ground to bottom of Coping

Rear Abut

Front      768 sf

Left      455 sf

Right      378 sf

Fwd Abut

Front      795 sf

Left      221 sf

Right      195 sf

2812 sf

840E27000      5 DAY      ON-SITE ASSISTANCE

840E28000      LS      SGB INSPECTION AND COMPACTION TESTING