

# BURGESS & NIPLE, INC. - COMPUTATION SHEET

JOB NO. 61865 JOB NAME Cemetery Road Shared Use Path  
 SUBJECT Retaining Wall @ Shared Use Path Quantities

SHEET 1 OF 2  
 PREPARED BY BWC DATE 10/10/2025  
 CHECKED BY JFM DATE 12/29/2025

**503 21300 UNCLASSIFIED EXCAVATION 1 LS**

| Avg Btm of Foot EL. | EX. Contour Line | Height of Excavation (ft) | Length @ Section (ft) | Excavation Width (ft) | Volume (cf) |                                            |
|---------------------|------------------|---------------------------|-----------------------|-----------------------|-------------|--------------------------------------------|
| 854.00              | 860              | 6.00                      | 57.5                  | 8.5                   | 2932.5      |                                            |
| 853.50              | 860              | 6.50                      | 1                     | 8.5                   | 55.3        | Additional excavation @ diagonal step down |
| 853.00              | 858              | 5.00                      | 49                    | 8.5                   | 2082.5      |                                            |
| 852.50              | 858              | 5.50                      | 1                     | 8.5                   | 46.8        | Additional excavation @ diagonal step down |
| 852.00              | 857              | 5.00                      | 39.35                 | 8.5                   | 1672.6      |                                            |
| 850.88              | 857              | 6.13                      | 2.25                  | 8.5                   | 117.1       | Additional excavation @ diagonal step down |
| 849.75              | 857              | 7.25                      | 31.5                  | 9.75                  | 2226.7      |                                            |

Total = 339 CY  
 Total = 1 LS

**509 10000 EPOXY COATED STEEL REINFORCEMENT 15276 LB**

Total = 15276 LB

**511 46512 CLASS QC1 CONCRETE WITH QC/QA, FOOTING 72 CY**

| Section Length (ft) | Footing Width (ft) | Footing Depth (ft) | Volume (cf) |
|---------------------|--------------------|--------------------|-------------|
| 30.00               | 6.50               | 1.55               | 302.50      |
| 30.00               | 6.50               | 1.55               | 302.50      |
| 25.00               | 6.50               | 1.55               | 252.08      |
| 25.00               | 6.50               | 1.55               | 252.08      |
| 20.80               | 6.50               | 1.55               | 209.75      |
| 20.80               | 6.50               | 1.55               | 209.75      |
| 30.00               | 7.75               | 1.55               | 361.25      |
| Total =             |                    |                    | 1889.92     |

Step 1 Volume = 13.00 CF  
 Step 2 Volume = 13.00 CF  
 Step 3 Volume = 38.39 CF

Total = 72 CY

**511 46012 CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING 82 CY**

|                       |       |    |                       |
|-----------------------|-------|----|-----------------------|
| Wall Length =         | 181.6 | ft | Barrier Concrete:     |
| Average Wall Height = | 7.064 | ft | Middle Length = 171.6 |
| Wall Thickness =      | 1.333 | ft | Area = 2.53           |
|                       |       |    | End Length = 10.00    |
|                       |       |    | End Area = 4.36       |
|                       |       |    | Volume = 477 CF       |

Total = 82 CY

**512 10101 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN 216 SY**

Measurements taken in WD001

|                                 |        |    |
|---------------------------------|--------|----|
| Retaining Wall                  |        |    |
| Front of Wall =                 | 825    | sf |
| 1'-0" below ground to SUP (CAD) |        |    |
| Barrier                         |        |    |
| Sides of Barrier =              | 948.00 | sf |
| Top of Barrier =                | 166.47 | sf |

Total = 216 SY

**512 10001 SEALING OF CONCRETE SURFACES, AS PER PLAN 216 SY**

Applied in same locations traditional sealant

Total = 216 SY

**512 33000 TYPE 2 WATERPROOFING 15 SY**

3'-0" waterproofing @ joints per Ross/McDonalds Wall

|                    |       |    |
|--------------------|-------|----|
| Height @ Joint 1 = | 6.210 | ft |
| Height @ Joint 2 = | 6.320 | ft |
| Height @ Joint 3 = | 6.850 | ft |
| Height @ Joint 4 = | 11.18 | ft |
| Joint Width =      | 3     | ft |

Total = 15 SY

**516 13600 1" PREFORMED EXPANSION JOINT FILLER 7 SF**

|               |       |    |
|---------------|-------|----|
| PEJF Length = | 6.500 | ft |
| SUP Height =  | 1.000 | ft |

Total Area = 7 SF

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JOB NO. 61865      JOB NAME Cemetery Road Shared Use Path  
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SHEET 2      OF 2  
 PREPARED BY BWC      DATE 10/10/2025  
 CHECKED BY JFM      DATE 12/29/2025

|                |                                                                                                           |             |           |
|----------------|-----------------------------------------------------------------------------------------------------------|-------------|-----------|
| <b>516</b>     | <b>13601 1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN</b>                                             | <b>43</b>   | <b>SF</b> |
|                | PEJF 1 Height = 6.810 ft <i>Includes PEJF @ railing</i>                                                   |             |           |
|                | PEJF 2 Height = 7.130 ft <i>Includes PEJF @ railing</i>                                                   |             |           |
|                | PEJF 3 Height = 9.080 ft <i>Includes PEJF @ railing</i>                                                   |             |           |
|                | PEJF 4 Height = 8.930 ft                                                                                  |             |           |
|                | PEJF Width = 1 ft                                                                                         |             |           |
|                | PEJF Width = 1.333 ft                                                                                     |             |           |
|                | <b>Total Area = <span style="border: 1px solid black; padding: 2px;">43</span> SF</b>                     |             |           |
| <b>516</b>     | <b>31000 JOINT SEALER</b>                                                                                 | <b>182</b>  | <b>FT</b> |
|                | Barrier Length = 181.6 ft                                                                                 |             |           |
|                | <b>Total = <span style="border: 1px solid black; padding: 2px;">182</span> FT</b>                         |             |           |
| <b>517</b>     | <b>76300 RAILING, MISC.: ALUMINUM RAILING</b>                                                             | <b>171</b>  | <b>FT</b> |
|                | Railing Length = 171 ft                                                                                   |             |           |
|                | <b>Total = <span style="border: 1px solid black; padding: 2px;">171</span> FT</b>                         |             |           |
| <b>518</b>     | <b>20000 PREFABRICATED GEOCOMPOSITE DRAIN</b>                                                             | <b>94</b>   | <b>SY</b> |
|                | <i>Scratch 3 in WD001 - 1'-0" from edge of path to along centerline of pipe</i>                           |             |           |
|                | Area Along Retaining Wall = 840.9155 SF                                                                   |             |           |
|                | <b>Total = <span style="border: 1px solid black; padding: 2px;">94</span> SY</b>                          |             |           |
| <b>518</b>     | <b>21200 POROUS BACKFILL WITH GEOTEXTILE FABRIC</b>                                                       | <b>14</b>   | <b>CY</b> |
|                | Wall Length = 181.6 ft                                                                                    |             |           |
|                | Width = 2.0 ft <i>Assumed to be 2' x 1' around perforated CPP similar to Ross</i>                         |             |           |
|                | Height = 1.0 ft                                                                                           |             |           |
|                | <b>Total = <span style="border: 1px solid black; padding: 2px;">14</span> CY</b>                          |             |           |
| <b>518</b>     | <b>40000 6" PERFORATED CORRUGATED PLASTIC PIPE</b>                                                        | <b>182</b>  | <b>FT</b> |
|                | Wall Length = 181.6 ft                                                                                    |             |           |
|                | <b>Total = <span style="border: 1px solid black; padding: 2px;">182</span> FT</b>                         |             |           |
| <b>518</b>     | <b>40010 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS</b>                                | <b>40</b>   | <b>FT</b> |
|                | CL Pipe to FF Wall = 36.5 ft <i>Taken from drainage elevations spreadsheet</i>                            |             |           |
|                | <b>Total = <span style="border: 1px solid black; padding: 2px;">40</span> FT</b>                          |             |           |
| <b>601</b>     | <b>32210 ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER</b>                                        | <b>191</b>  | <b>CY</b> |
|                | <b>Retaining Wall</b>                                                                                     |             |           |
|                | Area (CAD) = 2296.43 SF                                                                                   |             |           |
|                | 2:1 Angle = 26.565 deg                                                                                    |             |           |
|                | Thickness = 2 ft                                                                                          |             |           |
|                | <b>Total = <span style="border: 1px solid black; padding: 2px;">191</span> CY</b>                         |             |           |
| <b>SPECIAL</b> | <b>- SPECIAL - FORM LINER</b>                                                                             | <b>1681</b> | <b>SF</b> |
|                | <i>See SP003 JFM Working for Option B Area (formliner down backface of wall - 1'-0" below groundline)</i> |             |           |
|                | Area (CAD) = 474.03 ft                                                                                    |             |           |
|                | # Sides = 2 EA                                                                                            |             |           |
|                | Area = 948.06 sf <i>Area of formliner @ parapet</i>                                                       |             |           |
|                | Area (CAD) = 732 SF <i>Area of main wall (top of wall to 1'-0" below groundline)</i>                      |             |           |
|                | <b>Option B Total Area = <span style="border: 1px solid black; padding: 2px;">1681</span> SF</b>          |             |           |