

# George Davis Creek Fish Passage Project, Phase 2 - Sammamish, WA

## Engineer's Estimate (60% Submittal) Prepared by PBS Engineering

May 23, 2020

| Item No | Section | Quantity | Unit | Description                                       | Unit Price | Total      |
|---------|---------|----------|------|---------------------------------------------------|------------|------------|
| 1       | 1-09    | 1        | LS   | Mobilization                                      | \$ 192,000 | \$ 192,000 |
| 2       | 1-04    | 1        | Est  | Minor Change                                      | \$ 30,000  | \$ 30,000  |
| 3       | 1-05    | 1        | LS   | Surveying                                         | \$ 30,000  | \$ 30,000  |
| 4       | 1-05    | 1        | LS   | Potholing Utilities                               | \$ 10,000  | \$ 10,000  |
| 5       | 1-05    | 1        | LS   | As-built Survey and Record Drawings               | \$ 4,500   | \$ 4,500   |
| 6       | 1-07    | 1        | Est  | Archaeological and Historical Salvage             | \$ 10,000  | \$ 10,000  |
| 7       | 1-07    | 1        | LS   | Utility Relocation and Misc Adjustments           | \$ 35,000  | \$ 35,000  |
| 8       | 1-07    | 1        | LS   | SPCC Plan                                         | \$ 2,500   | \$ 2,500   |
| 9       | 1-08    | 1        | LS   | Type B Progress Schedule                          | \$ 2,000   | \$ 2,000   |
| 10      | 1-09    | 1        | LS   | Field Office Building                             | \$ 15,000  | \$ 15,000  |
| 11      | 1-10    | 1,280    | HR   | Flaggers                                          | \$ 55      | \$ 70,400  |
| 12      | 1-10    | 1        | LS   | Traffic Control Supervisor                        | \$ 20,000  | \$ 20,000  |
| 13      | 1-10    | 1        | LS   | Project Temporary Traffic Control                 | \$ 20,000  | \$ 20,000  |
| 14      | 1-10    | 2        | EA   | Portable Message Sign                             | \$ 15,000  | \$ 30,000  |
| 15      | 2-01    | 0.6      | ACRE | Clearing and Grubbing                             | \$ 20,000  | \$ 12,000  |
| 16      | 2-01    | 17       | EA   | Tree Removal                                      | \$ 500     | \$ 8,500   |
| 17      | 2-01    | 1        | EST  | Roadside Cleanup                                  | \$ 20,000  | \$ 20,000  |
| 18      | 2-02    | 200      | LF   | Removal of Existing Water Main                    | \$ 10      | \$ 2,000   |
| 19      | 2-02    | 385      | LF   | Removal of Existing Sewer Main                    | \$ 12      | \$ 4,620   |
| 20      | 2-02    | 3        | EA   | Removal of Existing Sewer Manhole                 | \$ 1,000   | \$ 3,000   |
| 21      | 2-02    | 80       | LF   | Removal of Existing Culvert                       | \$ 20      | \$ 1,600   |
| 22      | 2-02    | 1        | LS   | Removal of Existing Structure - Building          | \$ 80,000  | \$ 80,000  |
| 23      | 2-02    | 1        | LS   | Removal of Structures and Obstructions            | \$ 50,000  | \$ 50,000  |
| 24      | 2-03    | 90       | CY   | Roadway Excavation Incl. Haul                     | \$ 30      | \$ 2,700   |
| 25      | 2-03    | 4,000    | CY   | Channel Excavation Incl. Haul                     | \$ 20      | \$ 80,000  |
| 26      | 2-03    | 500      | TON  | Common Borrow Incl. Haul                          | \$ 16      | \$ 8,000   |
| 27      | 2-03    | 2,100    | TON  | Select Borrow Incl. Haul                          | \$ 23      | \$ 48,300  |
| 28      | 2-09    | 2,900    | CY   | Structure Excavation Class A Incl. Haul           | \$ 16      | \$ 46,400  |
| 29      | 2-09    | 1        | LS   | Shoring or Extra Excavation Class A               | \$ 30,000  | \$ 30,000  |
| 30      | 2-09    | 1        | LS   | Shoring or Extra Excavation Class B               | \$ 20,000  | \$ 20,000  |
| 31      | 2-09    | 2        | LS   | Temporary Stream Diversion                        | \$ 25,000  | \$ 50,000  |
| 32      | 2-09    | 1        | LS   | Dewatering for Structure Excavation               | \$ 20,000  | \$ 20,000  |
| 33      | 2-11    | 1        | LS   | Trimming and Cleanup                              | \$ 25,000  | \$ 25,000  |
| 34      | 4-04    | 50       | TON  | Crushed Surfacing Base Course                     | \$ 48      | \$ 2,400   |
| 35      | 4-04    | 400      | TON  | Crushed Surfacing Top Course                      | \$ 48      | \$ 19,200  |
| 36      | 5-04    | 500      | TON  | HMA CL 1/2 In. PG 64-22                           | \$ 110     | \$ 55,000  |
| 37      | 5-04    | 1        | FA   | Pavement Restoration                              | \$ 10,000  | \$ 10,000  |
| 38      | 6-02    | 100      | CY   | Gravel Backfill for Wall                          | \$ 60      | \$ 6,000   |
| 39      | 6-02    | 1        | LS   | 17 ft x 10 ft x 49 ft Box Culvert (incl wingwall) | \$ 160,000 | \$ 160,000 |
| 40      | 7-02    | 1        | LS   | 17 ft x 10 ft x 30 ft Box Culvert (incl wingwall) | \$ 140,000 | \$ 140,000 |
| 41      | 7-05    | 5        | EA   | 72-in Sanitary Sewer Manhole                      | \$ 5,000   | \$ 25,000  |
| 42      | 7-05    | 1        | EA   | Drop Structure                                    | \$ 4,000   | \$ 4,000   |
| 43      | 7-09    | 200      | LF   | DI CL 52 Pipe for Water Main Replacement          | \$ 60      | \$ 12,000  |
| 44      | 7-09    | 30       | LF   | 18 in Steel Sleeve                                | \$ 60      | \$ 1,800   |
| 45      | 7-09    | 30       | LF   | 24 in Steel Sleeve                                | \$ 70      | \$ 2,100   |
| 46      | 7-09    | 1        | LS   | Temporary Water Main Bypass                       | \$ 30,000  | \$ 30,000  |
| 47      | 7-12    | 1        | EA   | 8-in Gate Valve                                   | \$ 2,000   | \$ 2,000   |
| 48      | 7-14    | 1        | EA   | Relocate Hydrant (incl bollard)                   | \$ 5,000   | \$ 5,000   |
| 49      | 7-17    | 430      | LF   | 18-in C-905 Sewer Pipe                            | \$ 110     | \$ 47,300  |
| 50      | 7-17    | 1        | LS   | Temporary Sanitary Sewer Bypass                   | \$ 60,000  | \$ 60,000  |

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|------------------------------------------------------------------|------|-------|-----|-----------------------------------------------------|--------------|------------|
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| May 23, 2020                                                     |      |       |     |                                                     |              |            |
|                                                                  |      |       |     |                                                     |              |            |
| 51                                                               | 8-01 | 80    | DAY | ESC Lead                                            | \$ 100       | \$ 8,000   |
| 52                                                               | 8-01 | 1     | LS  | TESC/SWPP                                           | \$ 2,000     | \$ 2,000   |
| 53                                                               | 8-01 | 1     | EST | Erosion/Water Pollution Control                     | \$ 15,000    | \$ 15,000  |
| 54                                                               | 8-01 | 1,000 | LF  | High Visibility Silt Fence                          | \$ 5         | \$ 5,000   |
| 55                                                               | 8-01 | 700   | LF  | High Visibility Fence                               | \$ 3         | \$ 2,100   |
| 56                                                               | 8-01 | 100   | LF  | Straw Wattles                                       | \$ 15        | \$ 1,500   |
| 57                                                               | 8-01 | 200   | SY  | Seeding, Fertilizing and Mulching by Hand (Roadway) | \$ 5         | \$ 1,000   |
| 58                                                               | 8-02 | 1     | LS  | Planting Construction                               | \$ 85,000    | \$ 85,000  |
| 59                                                               | 8-11 | 425   | LF  | Beam Guardrail Type 31                              | \$ 40        | \$ 17,000  |
| 60                                                               | 8-11 | 4     | EA  | Beam Guardrail Type 31 Non-flared Terminal          | \$ 3,600     | \$ 14,400  |
| 61                                                               | 8-11 | 190   | LF  | Removing Guardrail                                  | \$ 10        | \$ 1,900   |
| 62                                                               | 8-12 | 220   | LF  | Roadway Fence                                       | \$ 60        | \$ 13,200  |
| 63                                                               | 8-15 | 260   | CY  | Quarry Spalls                                       | \$ 40        | \$ 10,400  |
| 64                                                               | 8-21 | 1     | LS  | Permanent Signing                                   | \$ 10,000    | \$ 10,000  |
| 65                                                               | 8-22 | 45    | SF  | Painted Crosswalk Line                              | \$ 10        | \$ 450     |
| 66                                                               | 8-22 | 230   | LF  | 4" Edge Line                                        | \$ 2         | \$ 460     |
| 67                                                               | 8-22 | 115   | LF  | Double Yellow Centerline                            | \$ 5         | \$ 575     |
| 68                                                               | 8-22 | 500   | LF  | Temporary Pavement Markings                         | \$ 1         | \$ 500     |
| 69                                                               | 8-24 | 1,550 | SF  | Rock Wall                                           | \$ 35        | \$ 54,250  |
| 70                                                               | 8-27 | 1     | LS  | Temporary Stream Bypass System                      | \$ 25,000    | \$ 25,000  |
| 71                                                               | 8-29 | 74    | EA  | Large Woody Debris                                  | \$ 1,500     | \$ 111,000 |
| 72                                                               | 8-30 | 700   | TON | Streambed Cobbles                                   | \$ 52        | \$ 36,400  |
| 73                                                               | 8-30 | 1,000 | TON | Subgrade Cobbles                                    | \$ 60        | \$ 60,000  |
| 74                                                               | 8-30 | 1,200 | TON | Streambed Sediment                                  | \$ 50        | \$ 60,000  |
| 75                                                               | 8-30 | 30    | EA  | Streambed Boulder One Man                           | \$ 75        | \$ 2,250   |
| Construction Cost                                                |      |       |     |                                                     | \$ 2,102,705 |            |
| 60% Level Estimating Contingency (15%)                           |      |       |     |                                                     | \$ 315,406   |            |
| Total Cost                                                       |      |       |     |                                                     | \$ 2,418,111 |            |