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## ADDENDUM #2

November 8, 2023

Project: Bethel Park Restoration

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This addendum #2 forms part of the Contract Documents and modifies the original bidding documents. All bidders shall acknowledge receipt of this addendum in the space provided in the Bidding Schedule section of the bid document.

FAILURE TO ACKNOWLEDGE RECEIPT OF AN ADDENDUM MAY RESULT IN THE BID BEING DISQUALIFIED.

Notice to Bidders:

This addendum shall be considered part of the Contract Documents for the above-mentioned project as though it were issued at the same time and incorporated therewith. Where provisions of the following supplementary data differ from those in the original Contract Documents, this addendum shall govern and take precedence. Work not specifically deleted, modified, changed, or altered by this addendum shall remain in effect as a part of the Contract Documents.

Bidders are hereby notified that they shall make the necessary adjustments in their proposals to account for this addendum.

### Response To Questions

1. Comment: In efforts to calculate earthwork cut/fill for the lump sum grading line item, please forward the CAD file.

**Response:** Earthwork quantities were provided as part of Addendum 1. A heat map for cut/fill areas and depths is provided as part of this addendum. A model-space composite CAD file is being provided for the purpose of determining quantities.

2. Comment: In section 10.3 there is a statement saying "A prime coat shall be applied when the base has been in place for seven (7) days or more." Prime coat is generally only used if an ABC stone base has been setup but cold weather limitations on the asphalt will not allow paving to take place. The prime coat is applied to help keep excessive moisture from entering the stone base over the winter until the next spring when temperatures are warm enough to pave. If we include a prime coat in our cost for a "just in case we need it scenario", this will increase the cost for paving dramatically. I would suggest that if you want to keep this wording in the specifications to call it out as a separate alternate line item.

**Response:** Due to construction schedule prime coat is not anticipated. If it is determined to be needed, the City will address this through a change order.

3. Comment: In section 10.3 there is a statement saying "City Engineer shall be notified prior to use of recycled asphalt". Please clarify if recycled asphalt is acceptable or not. In today's times I would say that 95% or more of the asphalt pavement used today is recycled. We cannot

compete with other contractors using virgin mixes because of the large cost difference. We use recycled asphalt in all our mixes unless a contract specifically states that a virgin mix is required. You might want to change the wording to say that a paving contractor cannot use an asphalt mix that has more than 30% recycled content or something to that effect. Most asphalt suppliers are using at least 20 to 30% recycled asphalt. Some are using more, especially if the owner is not having the asphalt mix tested. The maximum amount we use is 30% recycled asphalt.

Response: Recycled asphalt mix can be used for this project but must meet the latest NCDOT Standards.

4. Comment: In section 10.3 there is a statement saying "The latest NCDOT approved mix shall be compacted to a 95% density. Table 610-7 of the NCDOT standard specification states that the S9.5B mix called out for this project has a 90% density requirement.

Response: We will be following the latest NCDOT Standards for compaction for S9.5B mix at 90% density requirement.

5. Comment: You are showing an alternate 13 "Trail asphalt binder". The paving detail on plan sheet 7.7 does not show an asphalt binder. Where will this item be used on the project?

Response: A 2-inch depth asphalt binder is proposed to be used at the bridge approaches up to the main loop trail and the trail going to the basketball court area.

6. Comment: Will the testing of the concrete and compaction be the Contractor's responsibility, or will it be supplied by the City?

Response: Contractor shall be responsible for providing testing results for the project. Contractor shall utilize a licensed testing firm to complete the testing and provide test results to the Owner and Engineer.

7. Comment: Is it anticipated for all the brush and logs to come from onsite or will this material need to be imported?

Response: Based on site evaluation, it is anticipated that the required woody material is available on site. However, it is acknowledged that log import may be required to meet woody structure requirements. For the purpose of this bid, assume all woody material is available on site. If, during construction, insufficient logs are available, line item Alt4, or alternative change order methods, may be utilized to convert a woody structure to a boulder structure for payment adjustments.

8. Comment: How many soil lifts high do you anticipate having on top of the brush toes?

Response: A minimum of two compacted soil lifts are anticipated on top of the brush toes on East Prong Hunting Creek and one compacted soil lift on Fiddlers Run. These are individually compacted lifts, not individually wrapped geolifts.

9. Comment: Is there any record of what the existing foundation of the bridges are made of (depth, sheet piles, etc.)?

Response: The existing foundations are poured-in-place concrete footers. The depth and reinforcement are unknown.

10. Comment: What is the width of the new greenway asphalt trail?

Response: The new asphalt trail is 12' in width in accordance with the detail shown on Sheet 7.7 of the Plans.

11. Comment: Will the Contractor be responsible for loading the extra fill material the City has?

Response: The Contractor will be responsible for loading of fill dirt. Once hauling of dirt is completed, the contractor will be responsible to grade the borrow area for positive drainage and seed the disturbed area.

12. Comment: There is a 10% WBE/MBE goal for this project. If we anticipate meeting the goal using WBE/MBE subcontractors on the Alternate line items but the Alternate line items are not selected during the execution of the Contract, how does this affect the overall fulfillment of the Contract?

Response: This is a recommendation, not a requirement.

13. Comment: The plan drawings provided within the bid documents appear to be half size drawings. Can we get a separated set of plans sheets to the full scale along with the CAD Files for the work to assist with quantity takeoffs using the drawing?

Response: The plans were developed as half-sized drawings. These drawings are produced in 11/17 format and, if reproduced at 11x17, are to scale. A model-space composite CAD file is being provided for the purpose of determining quantities.

14. Comment: Plan Sheet 2.1.1, Station 101+00 indicates a vertical drop of ~4.8 feet. What is the plan to prevent the upstream Log Sill and Constructed Riffle from failing at this location?

Response: Structures shown on the proposed profile are not drawn to scale and are included for illustrative purposes only. Logs used for log sill shall be a minimum of 24" diameter, with similarly sized footer logs offset at 12" per the detail. This constitutes a constructed slope into the pool. Splash rock at the toe of the excavated scour pools and filter fabric along the length of the entire embedded structure will also provide additional stability for the log sill and upstream riffle. Excavation into the pool from the footer log will not be vertical and likely closer to 1:1 or 2:1 along the run. Adjustments to the run onto the pool is permissible at the field Engineer's discretion.

15. Comment: Plan Sheet 2.1.2, Station 106+06 indicates a vertical drop of ~4.8 feet. What is the plan to prevent the upstream Boulder Structure and Constructed Riffle from failing at this location?

Response: Structures shown on the proposed profile are not drawn to scale as symbols are included for illustrative purposes only. Boulders used for Log J-Hook structures shall have minimum dimensions of 4'x3'x2' (L, W, H). Embedded header and footer boulders shall protect the riffle upstream of the scour pool. To further ensure stability, the log portion of the structure shall also be embedded with filter fabric and header boulders to prevent the log from shifting. Adequate approach slopes (runs) of 1:1 minimum will be required during construction.

16. Comment: Plan Sheet 2.1.3, Station 112+43 indicates a vertical drop of over ~4.9 feet. What is the plan to prevent the upstream Boulder Structure and Constructed Riffle from failing at this location?

Response: See comment response above.

17. Comment: Plan Sheet 2.1.4, Station 114+33 indicates a vertical drop of over ~4.5 feet. What is the plan to prevent the upstream Boulder Structure and Constructed Riffle from failing at this location?

Response: See comment response above.

18. Comment: Plan Sheet 2.1.5, Stations 117+46, 119+08 and 120+13 indicate a vertical drop of ~4.6, 4.9, & 5.4 feet, respectively. What is the plan to prevent the upstream Boulder Structure and Constructed Riffle from failing at this location?

Response: See comment response above.

19. Comment: Same question as above from Plan Sheet 2.2.1 through 2.2.4, Stations 200+40, 201+62, 205+60, 209+69, 210+72, 211+97 and 213+07?

Response: See comment responses above.

20. Comment: Plan Sheets 8.5 and 8.6 indicate Concrete Deck (By Others). Is the concrete deck being contracted separately by the City or is it the responsibility of the Contractor?

Response: The concrete deck is the responsibility of the Contractor. Per the bridge specifications, the bridge supplier shall provide concrete forms for construction of the decking. The Contractor is responsible for this construction.

21. Comment: Are the boulders in chunky riffles required to be flat faced, or will large rip rap suffice?

Response: Boulders in the chunky riffles are not required to be flat faced. Small boulders or boulder fragments are preferred, large individual riprap may be permissible.

22. Comment: Is the coir matting used for stabilizing the brush toe incidental to Brush Toe line item 14, or is it measured under item 4 (Erosion Control Matting)?

Response: Erosion control matting used for stabilization of the structure is incidental to the Brush Toe line item.

A revised Bid Tab dated November 8, 2023 has been included as part of this Addendum.

Bid Tab Notes:

- Addendum #1 incorrectly identified the units on Alt 10a as TONS, this has been revised to EA
- Addendum #1 incorrectly identified the item for Haul off stumps as 10a, this is revised to 10b.

ATTACHMENTS:

Revised Bid Tab dated November 8, 2023

Earthwork heat map for cut/fill

CAD file

END OF ADDENDUM #2

BID TAB - BETHEL PARK RESTORATION

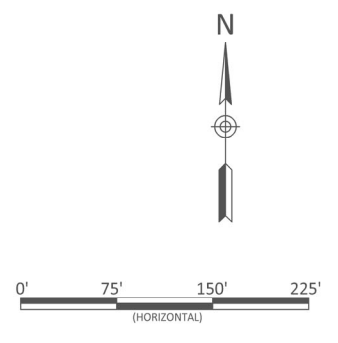
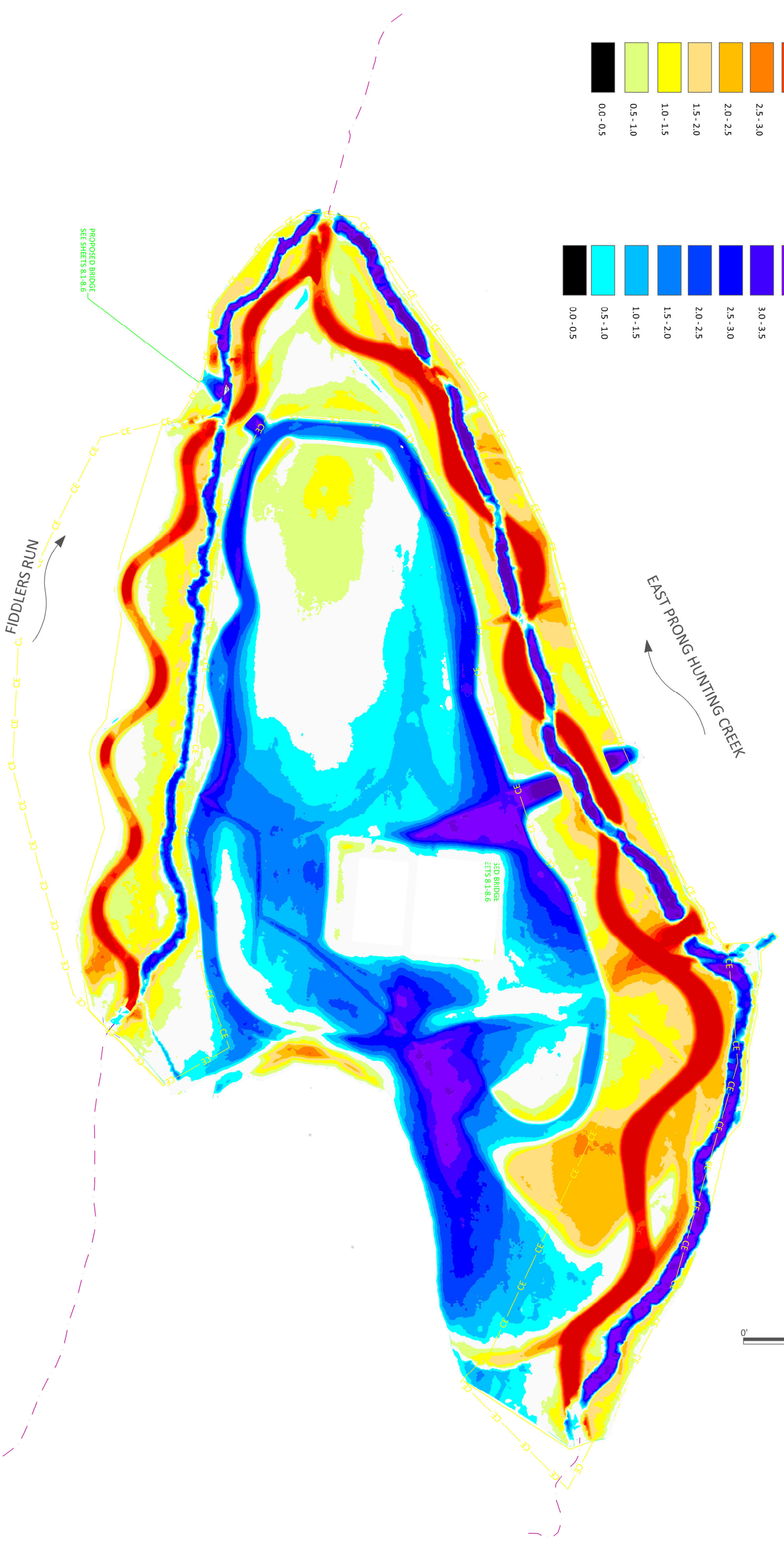
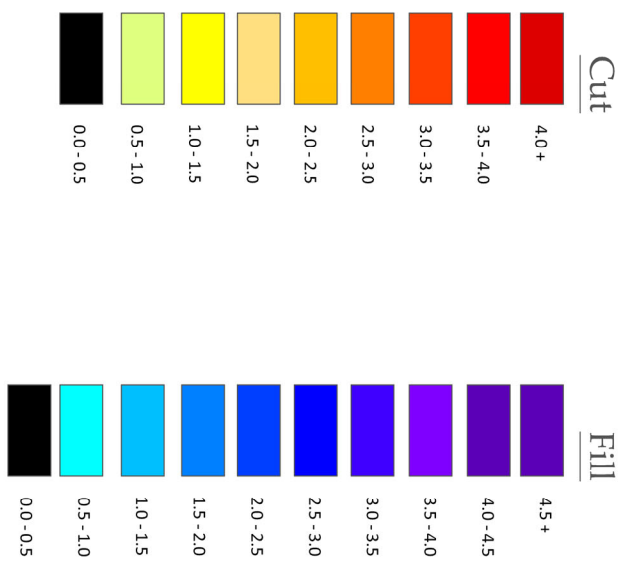
revised 11/3/23, 11/08/23

					Contractor's Bid Tab	
Item	Specification Section	Description	Quantity	Unit	Unit Price	Extended Total
		<b>Site Preparation</b>				
1	2.2	Mobilization and Demobilization	1	LS		
		<b>Erosion and Sediment Control</b>				
2	3.1	Silt Fence	8781	LF		
3	3.3	Temporary Rock Check Dam	5	EA		
4	3.4	Erosion Control Matting	9555	SY		
5	3.5	Temporary Stream Crossing - Culvert	1	EA		
6	3.6	Temporary Stream Crossing - Timber Mat	4	EA		
7	3.8	Turbidity Curtain	1	LS		
		<b>Demolition</b>				
8	4.1	Site Demolition	1	LS		
		<b>Earthwork</b>				
9	5.1	Grading	1	LS		
10	5.2	Tree Removal	1	LS		
		<b>In-Stream Structures</b>				
11	7.1	Log Sill	5	EA		
12	7.2	Log J-Hook	10	EA		
13	7.3	W-Weir	1	EA		
14	7.4	Brush Toe	990	LF		
15	7.5	Crayfish Glide	5	EA		
16	7.6	Constructed Riffle - CR	559	LF		
17	7.6	Constructed Riffle - ALR	204	LF		
18	7.6	Constructed Riffle - CH	353	LF		
19	7.7	Floodplain Sill	500	LF		
		<b>Bridge Crossing</b>				
20	8.0	Fiddlers Run Bridge Crossing	1	EA		
21	8.1	East Prong Hunting Creek Bridge Crossing	1	EA		
22	8.2	Floodplain Culverts	1	LS		

Item	Specification Section	Description	Quantity	Unit	Unit Price	Extended Total
		<b>Planting</b>				
23	9.1	Temporary Seeding	22.0	AC		
24	9.2	Permanent Seeding - Floodplain Bench Planting Zones	7.8	AC		
25	9.2	Permanent Seeding - Bioretention Planting Zone	0.24	AC		
26	9.2	Permanent Seeding - Park/Bioswale Planting Zone	9.8	AC		
27	9.3	Livestakes	2770	EA		
28	9.3	Herbaceous Plugs - In-stream	2309	EA		
29	9.3	Herbaceous Plugs - Bioretention	642	EA		
30	9.4	5-Gallon Containerized Plants	12	EA		
31	9.5	Bare Roots	2363	EA		
32	9.6	Planting Warranty	1	LS		
		<b>Park Features</b>				
33	10.1	Bioswales	1400	LF		
34	10.2	Bioretention Areas	4	EA		
Total Base Bid						

Item	Specification Section	Description	Quantity	Unit	Unit Price	Extended Total
					Unit Price	
<b>Alternate Bid Items - Provide Unit Costs ONLY</b>						
Alt 1	3.2	Safety Fence/Tree Protection Fencing		LF		-----
Alt 2	5.1	Bedrock Excavation		CY		-----
Alt 3	5.1	Topsoil Harvesting		CY		-----
Alt 4	6.1	Misc. Boulders		TONS		-----
Alt 5	6.1	Misc. Gravel - #57 Stone		TONS		-----
Alt 6	6.1	Misc. Class ABC		TONS		-----
Alt 7	6.1	Misc. Class A Stone		TONS		-----
Alt 8	6.1	Misc. Class B Stone		TONS		-----
Alt 9	6.1	Misc. Class 1 Stone		TONS		-----
Alt 10	6.1	Misc. Class 2 Stone		TONS		-----
Alt 10a	5.2	Individual Tree Removal		EA		-----
Alt 10b	5.2	Haul off of stumps		TRUCK		-----

					Unit Price	Extended Total
<b>Alternate Bid Item - Asphalt Trail Improvements - Provide Full Costs</b>						
Alt 11	10.3	Trail Grading	1	LS		
Alt 12	10.3	Trail Stone Base	2,100	TONS		
Alt 13	10.3	Trail Asphalt Binder	165	TONS		
Alt 14	10.3	Trail Asphalt Surface S9.5B	775	TONS		
Sub-total Asphalt Trail Alt						



Earthwork		
	Site	
Cut (CY)	31,102	
Fill (CY)	32,293	820
Total (CY)	63,395	846
Net (CY)	1,190 FILL	793 FILL
		Trail
		80
		7,636
		846
		7,716
		7,557 FILL