Southern Alberta Flood Recovery Task Force Flood Mitigation Measures for the Bow, Elbow and Oldman River Basins Volume 4 - Flood Mitigation Measures – Final June 2014



Appendix D

Conceptual Design of Flood Defences at Siksika First Nation

Conceptual Cost Estimate Siksika Flood Defence Dykes

Item No.	Item Description	Unit	Quantity	Unit Price	Extension
	ALLOWANCES				
1	Bigger Size Riprap	Allow.	Allowance		\$350,000
	TEMPORARY FACILITIES				
2	Mobilization and Demobilization	L.S.	1	Lump Sum	\$75,000
3	Existing and Temporary Roads	L.S.	1	Lump Sum	\$25,000
	SITE PREPARATION				
4	Clearing & Grubbing	ha	8	\$2,000.00	\$16,600
5	Topsoil & Subsoil Stripping	m³	37297	\$5.00	\$186,484
6	Care of Water	L.S.	2	Lump Sum	\$25,000
	FILL PLACEMENT				
7	Low Permeable Fill	m³	217836	\$10.00	\$2,178,361
	GRANULAR AND RIPRAP MATERIALS				
8	Riprap Zone 6B	tonnes	23481	\$130.00	\$3,052,517
9	Gravel Armour Zone 5C	tonnes	16977	\$40.00	\$679,061
10	Non-Woven Geotextile	m²	28294	\$3.00	\$84,883
	LANDSCAPING				
14	Topsoil & Subsoil Placement	m²	10251	\$1.50	\$15,377
15	Turf Reinforcement Mat	m²	10251	\$6.00	\$61,508
16	Hydroseeding	m²	10251	\$3.50	\$35,880
	SUBTOTAL				\$6,785,671
	CONTINGENCIES @ 25%				\$1,696,418
	ENGINEERING @ 12%				\$814,281
	ESTIMATED TOTAL COST				\$9,296,000











