



SPERLICH

Consulting, Inc.

821 Columbus St., Suite 1
Rapid City, SD 57701

February 25, 2008

City of Rapid City, Growth Management
Attn: Karen Bulman
300 Sixth Street
Rapid City, South Dakota 57701-2724

RECEIVED

FEB 29 2008

Rapid City Growth
Management Department

Subj: **Homestead TIF District
Oversize Estimate
Rapid City, South Dakota
Project #1658**

Attn: Karen;

Find attached our estimate of oversize costs associated with the Homestead TIF District. You'll find our estimate of "Base Size" Improvements, as well as "Base Size and Oversize" Improvements. The difference between these to aforementioned cost being the "Oversize" portion of the improvements.

Per the methodology discussed with the TIF Committee, the grading costs were calculated based upon a ratio of storage areas for the detention cells proposed, relative to the storage area required to limit perk discharge to pre-developed levels. The submitted construction drawings and associated drainage study predict that 16.7 acre-feet of storage will be provided to construct the regional detention facility. The attached calculations predict that approximately 1.6 acre-feet of storage, or 9.76% of the total storage provided, would be required to limit peak storm water discharge to existing levels. We used this 9.76% to estimate topsoil, grading and seeding quantities associated with "Oversize" calculations.

If you have any questions or require additional information please do not hesitate to contact me at (605) 721-4040.

Sincerely;

Kale R. McNaboe, P.E.

Cc: Ron Shape
Joe Muth

For: Innovative Creations, LLC
 Attn: Mr. Ron Shape
 6150 Laredo Lane
 Black Hawk, South Dakota 57718

By: Sperlich Consulting, Inc.
 821 Columbus Street, Suite 1
 Rapid City, South Dakota 57701

Project : Homestead Subdivision
 Phase I
 Project #1658.01

Date: January 2, 2008
 January 23, 2008
 February 7, 2008

BASE SIZE & OVERSIZE IMPROVEMENTS

NO.	BID ITEM DESCRIPTION	UNITS	UNIT COST	ESTIMATED QUANTITY	ESTIMATED COST
1	----- GRADING -----				
2	TOPSOIL, STOCKPILE AND REPLACE	CY	4.00	11620	\$46,480.00
3	EXCAVATION/EMBANKMENT	CY	4.25	94701	\$402,479.25
4	SEEDING	SY	0.90	24500	\$22,050.00
5	----- DRAINAGE/STORM SEWER -----				
6	TYPE "E" INLET, 10'	EACH	\$5,500.00	5	\$27,500.00
7	TYPE "B" INLET	EACH	\$5,000.00	4	\$20,000.00
8	48" RCP, CLASS II	LF	\$120.00	38	\$4,560.00
9	42" RCP, CLASS II	LF	\$100.00	202.5	\$20,250.00
10	36" RCP, CLASS II	LF	\$75.00	87	\$6,525.00
11	30" RCP, CLASS II	LF	\$65.00	185	\$12,025.00
12	18" RCP, CLASS II	LF	\$50.00	212	\$10,600.00
13	48" RCP, FLARED END W/ TRASH RACK	EACH	\$1,500.00	1	\$1,500.00
14	36" RCP, FLARED END W/ TRASH RACK	EACH	\$1,000.00	2	\$2,000.00
15	30" RCP, FLARED END W/ TRASH RACK	EACH	\$800.00	2	\$1,600.00
16	18" RCP, FLARED END	EACH	\$600.00	1	\$600.00
17	CABLE CONCRETE	SF	\$10.00	1400	\$14,000.00
18	CLASS II RIPRAP, W/BEDDING	CY	\$40.00	60	\$2,400.00
19	CLASS III RIPRAP, W/BEDDING	CY	\$50.00	80	\$4,000.00
20	CLASS IV RIPRAP, W/BEDDING	CY	\$60.00	350	\$21,000.00
21	SILT FENCE	LF	\$4.22	7145	\$30,151.90
22	ROCK CONSTRUCTION ENTRANCE	EACH	\$1,200.00	3	\$3,600.00
23	----- MISC -----				
24	ENGINEERING DESIGN FEES	LS	\$45,000.00	1	\$45,000.00
25	NECESSARY AND CONVENIENT COSTS	EACH	\$30,151.90	1	\$30,151.90
				ESTIMATED COST:	\$728,473.05

Note: Aggregate base course quantities are estimated assuming a unit weight of 145 pounds per cubic foot
 Note: Asphaltic concrete quantities are estimated assuming a unit weight of 150 pounds per cubic foot

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 Phase I
 Project #1658.01

Date: January 2, 2008
 January 23, 2008
 February 7, 2008
 February 25, 2008

BASE SIZE IMPROVEMENTS

NO.	BID ITEM DESCRIPTION	UNITS	UNIT COST	ESTIMATED QUANTITY	ESTIMATED COST
1	----- GRADING -----				
2	TOPSOIL, STOCKPILE AND REPLACE (9.76% of Previous)	CY	4.00	1134.16	\$4,536.64
3	EXCAVATION/EMBANKMENT (9.76% of Previous)	CY	4.25	9243	\$39,282.75
4	SEEDING (9.76% of Previous)	SY	0.90	2391.32	\$2,152.19
5	----- DRAINAGE/STORM SEWER -----				
6	TYPE "E" INLET, 10'	EACH	\$5,500.00	2	\$11,000.00
7	TYPE "B" INLET	EACH	\$5,000.00	2	\$10,000.00
8	18" RCP, CLASS II	LF	\$50.00	105	\$5,250.00
9	18" RCP, FLARED END	EACH	\$600.00	2	\$1,200.00
10	CLASS II RIPRAP, W/BEDDING	CY	\$40.00	20	\$800.00
				ESTIMATED COST:	\$74,221.58

Note: Aggregate base course quantities are estimated assuming a unit weight of 145 pounds per cubic foot
 Note: Asphaltic concrete quantities are estimated assuming a unit weight of 150 pounds per cubic foot