



# 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
				<b>ESTIMATED COST:</b>	<b>\$728,473.05</b>

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
				<b>ESTIMATED COST:</b>	<b>\$74,221.58</b>

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