

**Table 6-3**  
**Selected Plan Cost Estimates - Basins 2, 3 and 4**

Projects	Construction Cost	Construction Contingency (30%)	Subtotal Construction Cost	Design Contingency (15%)	Land Cost	Total Cost (x\$1,000)
<b>Little Rawhide Creek - Basin 4</b>						
<b>Structure Improvements</b>						
Little Powder River Road (DP4-201)	\$ 128,400	\$ 38,520	\$ 166,920	\$ 25,038		\$ 192
Warlow Rd. (DP4-207)	\$ 367,600	\$ 110,280	\$ 477,880	\$ 71,682		\$ 550
I-90 (DP4-208)	\$ 320,000	\$ 96,000	\$ 416,000	\$ 62,400		\$ 478
<b>Subtotal - Basin 4</b>						<b>\$ 1,220</b>
<b>Dry Fork Powder River - Basin 3</b>						
<b>Structure Improvements</b>						
Kluer Road (DP3-205)	\$ 20,152	\$ 6,046	\$ 26,198	\$ 3,930		\$ 30
<b>Subtotal - Basin 3</b>		\$ -	\$ -	\$ -		<b>\$ 30</b>
<b>Closed Depression Playas - Basin 2</b>						
<b>Tributary 201</b>						
<b>Structure Improvements</b>						
Potter Ave. (DP2-203)	\$ 157,000	\$ 47,100	\$ 204,100	\$ 30,615		\$ 235
<b>Channel Improvements</b>						
Potter to DP 2-202	\$ 46,597	\$ 13,979	\$ 60,576	\$ 9,086		\$ 70
<b>Subtotal - Tributary 201</b>						<b>\$ 304</b>
<b>Tributary 202</b>						
<b>Structure Improvements</b>						
BNSF RR (DP2-219)	\$ 78,160	\$ 23,448	\$ 101,608	\$ 15,241		\$ 117
SH 51 (DP2-207)	\$ 78,160	\$ 23,448	\$ 101,608	\$ 15,241		\$ 117
<b>Subtotal - Basin 2</b>						<b>\$ 842</b>



**Table 1**  
**Construction Cost Estimates Summary**

Major Basin		Basin 2
Alternative		Local
Item	Total Cost (\$)	
Channels	275,200	
Culverts	847,648	
Drop Structures	131,200	
Detention Facilities	-	
Bridges	-	
Leeves	-	
Sub-Total (Rounded)		\$1,254,000
30% Construction Contingency		\$376,200
15% Engineering Contingency		\$188,100
Total (Rounded)		\$1,818,000



**Table 7-1-CH**  
**Channel Cost Estimates**  
**Major Basin 2 Alternative - Local**

Channel and Reach	Existing 100-yr Flow (cfs)	Proposed 100-yr Flow (cfs)	Design Flow (cfs)	Channel Length	Channel Type	Material	Excavation (CY)	Unit Cost (\$)	Total Cost (\$)
Channel Capacity (Potter Ave. to DP 2-202)	331	517	600	1700	Steep Channel Design	Grass	10,200	67	113,163
Channel Capacity (University Rd. to Potter Ave.)	283	460	500	2290	Steep Channel Design	Grass	10,178	52	118,237
Channel Capacity (Badger Ave. to University Rd)	290	470	300	330	Concrete Channel Design	Concrete	825	20	6,600
Channel Capacity (Market St. to Badger Ave.)	62	235	300	950	Concrete Channel Design	Concrete	2,375	20	19,000
Channel Capacity (Wall St. to Market St.)	62	235	300	660	Concrete Channel Design	Concrete	1,650	20	13,200
Channel Capacity (Collins Rd to Wall St)	62	235	300	250	Concrete Channel Design	Concrete	625	20	5,000
<b>Sub-Total</b>									<b>\$275,200</b>



**Table 7-1-CU  
Culvert Cost Estimate  
Major Basin 2 Alternative - Local**

Design Point	Road Crossing	Channel and Reach	Existing Size	Future 100-yr Flow (cfs)	Necessary Facility for Future 100-year Flow	Number of Culverts	Culvert Length (ft) <sup>1</sup>	Unit Cost (\$)	End Section Unit Cost (\$)	Total Cost (\$)
2-207	Hwy 51	Tributary 202	RCP 48"	1311	4- RCP 84"	4	120	142	10,000	78,160
2-219	Railroad	Tributary 202	RCP 2-42"	1311	4- RCP 84"	4	120	142	10,000	78,160
2-203	Potter Ave.	Tributary 201	45"x25" RCP Ellipse	518	2-7"x5' CBC	2	59	700	40,000	122,600
2-204	Badger Ave.	Tributary 201	2-30" CMP	469	4-7"x3' CBC	4	80	700	40,000	264,000
2-206	I-90	Tributary 201	36" RCP	185	Add 3-36" RCP	3	350	102	10,000	117,100
2-205	Collins Rd.	Tributary 203	24" CMP	237	Add 2- 24" RCP	2	50	62	10,000	16,200
2-218	University Rd.	Tributary 204	2-30" CMP	468	Add 30" RCP	1	54	82	10,000	14,428
2-203	Potter Ave.	Tributary 201	45"x25" RCP Ellipse	372	12'x4' CBC	1	90	1,300	40,000	157,000

<sup>1</sup> Length is based on Future Land Use Road widths

**Sub-Total    \$847,648**

**Table X**  
**Drop Structure Cost Estimate**  
**Major Basin 2 Alternative - Local**

Channel	Existing 100-yr Flow (cfs)	Proposed 100-yr Flow (cfs)	Design Flow (cfs)	Channel Length (ft)	Existing Slope	Proposed Slope	Elevation Change (ft)	No. of Drops	Unit Cost (\$)	Total Cost (\$)
Channel Capacity (University Rd. to Potter Ave.)	283	460	500	2,290	1.40%	0.30%	25.19	7	16,100	112,700
Channel Capacity (Potter Ave. to DP 2-202)	283	517	600	1,700	0.35%	0.15%	3.4	1	18,500	18,500
<b>Sub-Total</b>									<b>\$131,200</b>	