R. 60 W. R. 1 E.

T. 41 N.

T. 40 N.

T. 6 S.

T. 7 S.

Custer County

Fall River County

Prop-4 Prop-5 DC-1 BVC14 DC-2 DC-3 DC-4 Prop-6 Prop-7 Sub36 BVC11 677 697 695 689 681 693 65-1

SATELLITE PROCESSING PLANT

TOPSOIL STOCKPILE

SEDIMENT POND #1

BEAVER CREEK

BEAVER CREEK

Culvert ID	No. of Culverts	Diameter (inches)	Location		Drainage Area (mi2)	Curve Number	Design Storm Event	Peak Flow (cfs)
			Northing	Easting				
1	1	48	446,156	1,018,955	0.0980	78	10-yr, 24-hour	18.4
2	1	18	445,362	1,019,903	0.0390	78	2-yr, 6-hour	7.5
3	1	30	445,193	1,021,159	0.2600	78	2-yr, 6-hour	25.7
4	1	18	445,219	1,021,591	0.0360	78	2-yr, 6-hour	7.3
5	1	18	445,130	1,021,561	0.0380	78	2-yr, 6-hour	7.5
6	1	18	444,779	1,021,682	0.0070	78	2-yr, 6-hour	2.5
7	1	18	444,638	1,021,599	0.050	78	2-yr, 6-hour	8.9
8	1	30	444,583	1,017,625	0.1920	78	2-yr, 6-hour	26.3
9	1	30	444,408	1,021,286	0.2780	78	2-yr, 6-hour	24.8
10	2	48	444,329	1,018,969	0.2890	78	10-yr, 24-hour	156.2
11	1	18	444,158	1,021,147	0.0010	78	2-yr, 6-hour	0.3
12	1	18	443,589	1,021,883	0.0020	78	2-yr, 6-hour	0.7
13	1	18	443,552	1,021,181	0.0060	78	2-yr, 6-hour	1.8
14	1	30	443,502	1,022,115	0.3930	78	2-yr, 6-hour	31.5
15	1	18	443,489	1,022,208	0.0110	78	2-yr, 6-hour	3.3
16	1	18	443,473	1,022,479	0.0030	78	2-yr, 6-hour	1.0
17	1	24	442,065	1,036,536	0.0750	79	2-yr, 6-hour	19.2
18	1	36	441,555	1,036,817	0.4740	77	2-yr, 6-hour	52.3
19	1	36	441,593	1,037,291	0.4430	77	2-yr, 6-hour	51.9
20	1	18	440,178	1,036,606	0.0200	79	2-yr, 6-hour	6.4
21	1	24	439,664	1,029,261	0.3640	21	2-yr, 6-hour	16.1
22	1	18	438,386	1,031,360	0.0180	79	2-yr, 6-hour	3.9
23	1	18	438,306	1,031,512	0.0160	79	2-yr, 6-hour	3.3
24	1	30	438,261	1,036,514	0.3020	78	2-yr, 6-hour	34.6
25	1	24	431,825	1,031,535	0.0560	79	2-yr, 6-hour	14.0
26	1	18	438,903	1,028,427	0.0440	73	2-yr, 6-hour	4.0
27	1	18	437,707	1,038,102	0.0150	88	2-yr, 6-hour	10.5
28	1	18	431,357	1,037,468	0.0020	79	2-yr, 6-hour	0.7
29	1	18	431,467	1,037,992	0.0010	79	2-yr, 6-hour	0.4
30	1	18	431,570	1,038,447	0.0020	79	2-yr, 6-hour	0.7
31	1	18	431,629	1,038,683	0.0030	79	2-yr, 6-hour	1.1
32	1	18	429,856	1,034,742	0.0050	80	2-yr, 6-hour	2.0
33	1	18	436,820	1,038,059	0.0080	88	2-yr, 6-hour	6.4
34	1	24	435,607	1,034,264	0.0570	80	2-yr, 6-hour	17.3
35	1	18	435,541	1,030,947	0.0120	76	2-yr, 6-hour	1.6
36	1	24	435,002	1,034,429	0.0450	80	2-yr, 6-hour	13.0
37	1	24	434,584	1,034,656	0.0440	80	2-yr, 6-hour	12.4
38	1	42	433,965	1,035,323	0.0870	79	10-yr, 24-hour	68.4
39	1	24	433,921	1,035,815	0.0800	79	2-yr, 6-hour	19.5
40	2	48	433,677	1,031,178	1.4420	80	2-yr, 6-hour	128.9
41	2	48	433,579	1,035,042	0.2470	79	10-yr, 24-hour	159.9
42	1	36	433,421	1,031,219	0.3350	80	2-yr, 6-hour	45.2
43	1	30	433,054	1,035,846	0.1970	79	2-yr, 6-hour	33.9
44	1	18	433,076	1,042,599	0.0100	68	2-yr, 6-hour	0.2
45	1	18	432,934	1,031,545	0.0120	70	2-yr, 6-hour	0.5
46	1	18	432,612	1,031,269	0.0180	70	2-yr, 6-hour	0.6
47	1	24	432,442	1,034,455	0.0050	80	10-yr, 24-hour	11.9
48	1	18	432,176	1,038,696	0.0170	79	2-yr, 6-hour	5.5
49	1	18	431,972	1,031,184	0.0040	79	2-yr, 6-hour	1.4
50	1	42	431,835	1,034,135	0.0660	80	10-yr, 24-hour	70.6
51	1	18	431,749	1,041,149	0.2120	71	2-yr, 6-hour	8.9
52	1	18	431,469	1,042,112	0.0320	71	2-yr, 6-hour	2.1
53	1	18	431,044	1,032,109	0.0310	79	2-yr, 6-hour	8.7
54	1	18	430,912	1,033,123	0.0050	79	2-yr, 6-hour	1.8
55	1	24	430,874	1,033,474	0.0140	79	10-yr, 24-hour	10.4
56	1	48	430,851	1,033,461	0.0860	79	10-yr, 24-hour	78.0
57	1	18	430,205	1,036,309	0.0030	80	2-yr, 6-hour	1.3
58	1	18	430,121	1,037,148	0.0240	79	2-yr, 6-hour	7.7
59	1	18	430,126	1,037,546	0.0120	79	2-yr, 6-hour	3.9
60	1	36	429,916	1,037,943	0.2140	79	2-yr, 6-hour	43.0
61	1	24	429,902	1,035,186	0.0410	80	2-yr, 6-hour	12.4
62	1	18	429,845	1,035,598	0.0130	80	2-yr, 6-hour	4.6
63	1	54	428,900	1,031,717	0.1050	80	10-yr, 24-hour	105.9
64	1	18	427,662	1,031,033	0.0130	78	10-yr, 24-hour	11.9
65	1	36	443,763	1,019,231	0.3800	78	2-yr, 6-hour	39.9

LEGEND

- PERMIT BOUNDARY
- COUNTY ROAD
- EXISTING ROAD
- PROPOSED PRIMARY ACCESS ROAD
- PROPOSED SECONDARY ACCESS ROAD
- PROPOSED LIGHT USE ROAD
- RAILROAD
- APPROXIMATE RAILROAD RIGHT-OF-WAY
- PERENNIAL STREAM CHANNEL
- EPHEMERAL STREAM CHANNEL
- PROPOSED ROAD DITCH
- PROPOSED OVERHEAD POWER
- EXISTING BLACK HILLS ELECTRIC
- PROPOSED WELL FIELD FENCE
- PROPOSED CULVERT
- ORE BODY
- FACILITY POND
- STAGING AREA
- MONITOR WELL
- MADISON WELL
- STREAM MONITORING LOCATION
- DEEP DISPOSAL WELL (SEE NOTE)
- PERIMETER MONITOR WELL
- EXISTING IMPOUNDMENT TO BE MONITORED

This plate is provided to fulfill the requirements of ARSD 74:29:07:12.

Note: This plate will be updated in the event that land application is used.

C.I. = 10'
Feet
0 125 250 500 750 1,000
0 62.5 125 250
Meters

CONSULTANT
WWC ENGINEERING

REVISIONS

#	DRAWN	CHECKED	APPROVED	DATE

REF

CHECK SCALES
If this bar does not measure 1 inch this map is not at its original scale

36" x 42"

SIGNATURE OF PREPARER

PLOT DATE 27 September 2012
DRAWN DAVE C. JOHNSON
PREPARER DALE E. BROWN
DATE 27 September 2012
PDF FILE
COORDS NAD 27, South Dakota State Plane South (feet)
CAD FILE K:\Powertech\11270\DWGS\ACCESS_ROADS.dwg

POWERTECH (USA) INC.

Plate 5.3-5

Sheet 1 of 2

Access Roads

Dewey-Burdock Project

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