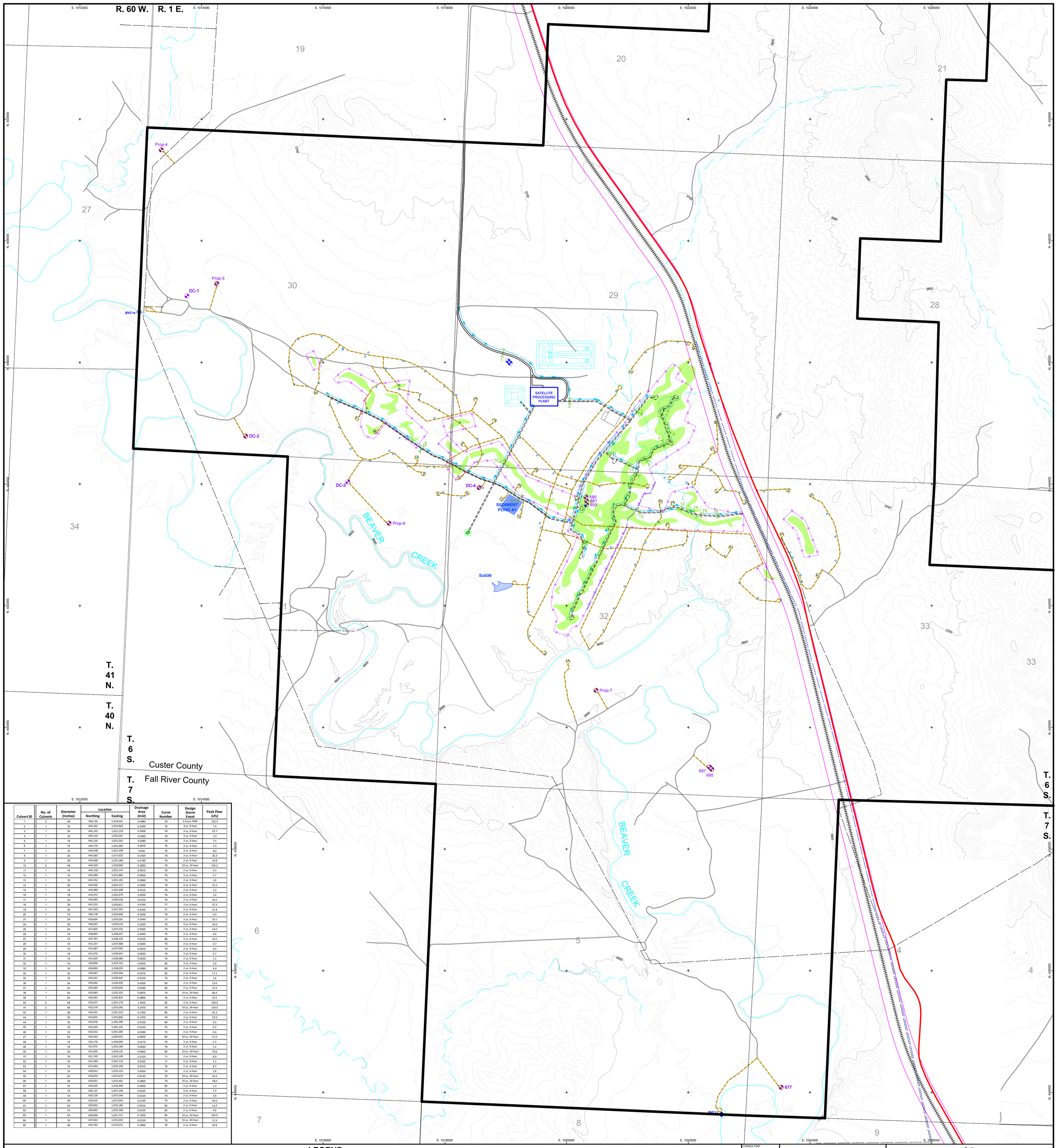

Culvert ID	No. of Culverts	Diameter (inches)	Location		Drainage Area (mi2)	Curve Number	Design Storm Event	Peak Flow (cfs)
			Northing	Easting				
1	2	48	446,156	1,018,955	0.0980	78	6-hour, PMP	232.5
2	1	18	445,362	1,019,903	0.0390	78	2-yr, 6-hour	7.5
3	1	30	445,193	1,021,159	0.2600	78	2-yr, 6-hour	25.7
4	1	18	445,219	1,021,591	0.0360	78	2-yr, 6-hour	7.3
5	1	18	445,330	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
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	1,031,145	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 29 March 2013 | DATE 29 March 2013
DRAWN DAVE C. JOHNSON | PDF FILE
PREPARER DALE E. BROWN | CAD FILE K:\Powertech\11270\DWGS\ACCESS_ROADS.dwg
COORDS NAD 27, South Dakota State Plane South (feet)

POWERTECH (USA) INC.

Plate 5.3-5

Sheet 1 of 2

Access Roads

Dewey-Burdock Project

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