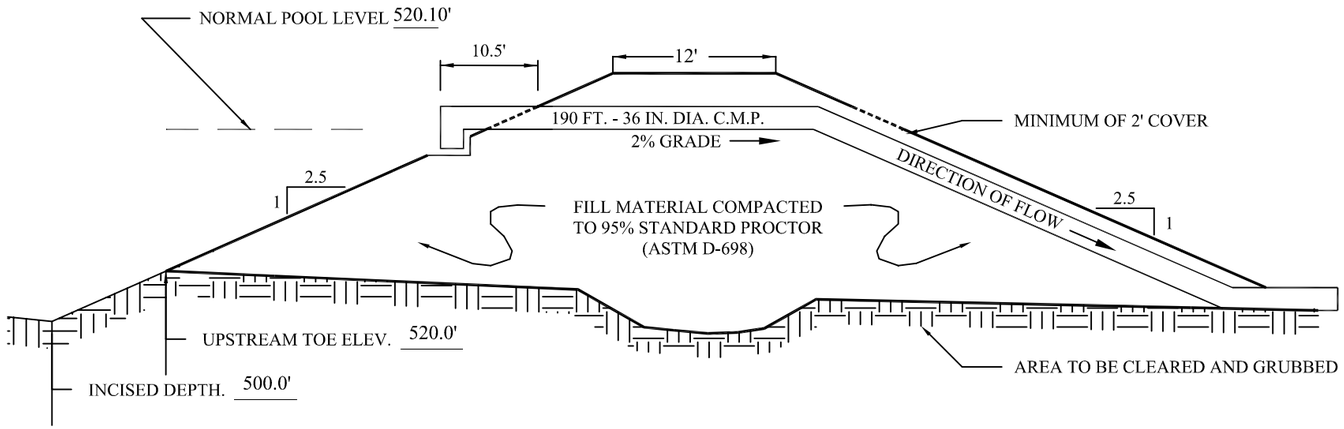
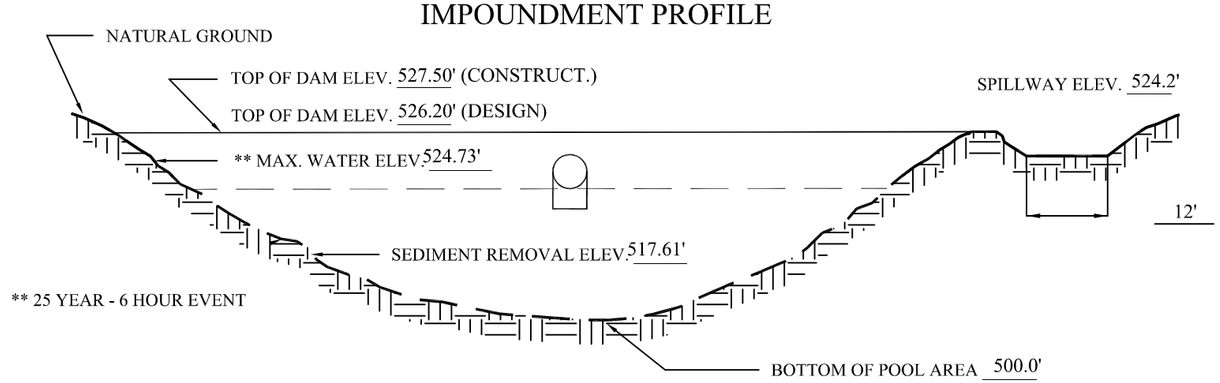
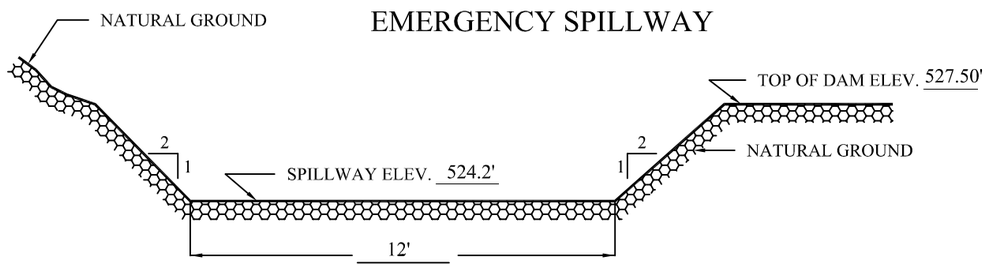
EMBANKMENT CROSS-SECTION



IMPOUNDMENT PROFILE



EMERGENCY SPILLWAY



EMERGENCY SPILLWAY TO BE GRASS LINED

MAXIMUM SPILLWAY GRADIENT 2.0 % (CONTROL SECTION)
MAXIMUM SPILLWAY GRADIENT 5.0 % (TAIL DITCH SECTION)
MINIMUM SPILLWAY GRADIENT 2.0 % (TAIL DITCH SECTION)

COMPANY: BIRMINGHAM COAL & COKE CO., INC.

MINE NAME: GOODEN CREEK #2 MINE

PERMIT #: P-3979

BASIN I.D. #: BASIN 033P

KEY BASIN PARAMETERS

DRAINAGE AREA	ACRES	69.3	
DISTURBED AREA	ACRES	35.1	
SEDIMENT STORAGE	AC.FT.	3.51	
DETENTION STORAGE	AC.FT.	1.23	
PERMANENT POOL CAPACITY	AC.FT.	4.74	
* TOTAL BASIN STORAGE CAPACITY	AC.FT.	7.28	* 10 YEAR - 24 HOUR EVENT
** PEAK INFLOW	C.F.S.	123.19	** 25 YEAR - 6 HOUR EVENT
** PEAK OUTFLOW	C.F.S.	67.51	

STORAGE COMPUTATION

Elevation (feet)	Area (acres)	Avg. Area (acres)	Interval (feet)	Storage (ac. - ft)	Acc. Storage (ac. - ft)
500.0	0.032				0.000
		0.066	5.0	0.332	
505.0	0.101				0.332
		0.154	5.0	0.770	
510.0	0.207				1.102
		0.281	5.0	1.407	
515.0	0.356				2.509
		0.448	5.0	2.240	
520.0	0.540				4.749
		0.645	5.0	3.225	
525.0	0.750				7.974

Birmingham Coal & Coke, Inc
Gooden Creek #2 Mine, P-3979
Basin 033

SCALE:	DATE:	DRAWN BY:	APPROVED BY:
NTS	05/07/2014	JRW	J.R.W