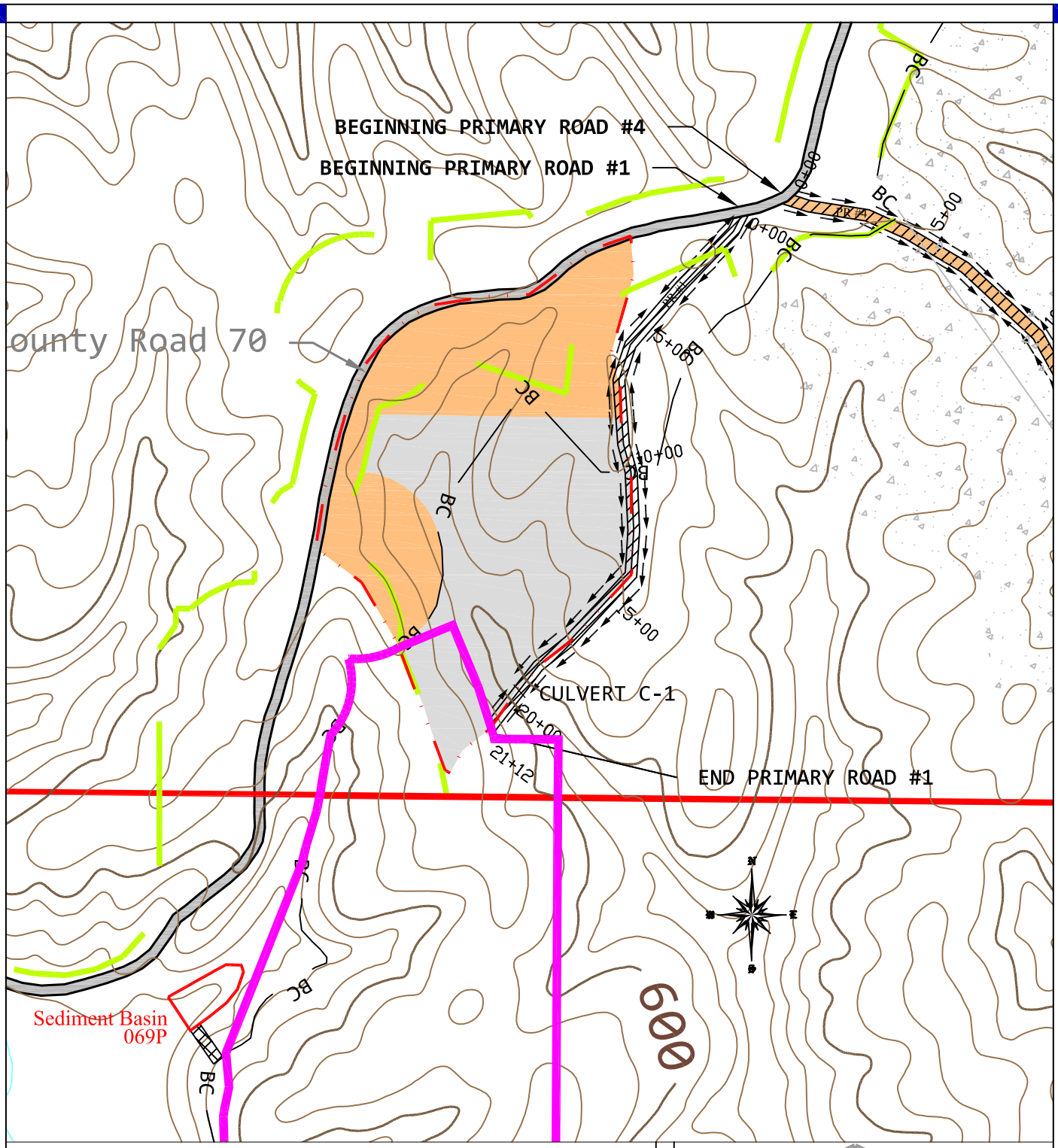

WATERSHED MAP LEGEND CULVERT C-1:

- CULVERT C-1
- MOSTLY FOREST, CN. 70
- DRAINAGE DIVIDE
- ROAD SIDE DITCHES
- GRADED & BARE, CN. 81
- P-3888

Birmingham Coal & Coke, Inc
Old Union #2 Mine, P-3962

SCALE:	SHEET:	LYNN & POPLAR SPRINGS USGS QUADRANGLES
1" = 500'	1 OF 1	

DSM
DESIGN GROUP, LLC
ENGINEERING / SURVEYING
1400 VIKING DRIVE
JASPER, ALABAMA 35501
TELEPHONE: (205) 221-6262

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Birmingham Coal & Coke Co., Inc. Old Union #2 Mine , P-39-- Primary Road 1

Culvert C-1

J. David McGehee, PE/LS

DSM Design Group, LLC
1400 Viking Drive
P. O. Box 690
Jasper, AL 35502-0690

Phone: (205) 221-6262
Email: david@dsmdg.com

General Information

Storm Information:

Storm Type:	SCS 6 HOUR
Design Storm:	10 yr - 6 hr
Rainfall Depth:	4.200 inches

Structure Networking:

Type	Stru #	(flows into)	Stru #	Musk. K (hrs)	Musk. X	Description
Culvert	#1	==>	End	0.000	0.000	Primary Road 1 Culvert C-1

#1
Culvert

Structure Summary:

	Immediate Contributing Area (ac)	Total Contributing Area (ac)	Peak Discharge	Total Runoff Volume (ac-ft)
#1	29.000	29.000	44.98	4.23

Structure Detail:

Structure #1 (Culvert)

Primary Road 1 Culvert C-1

Culvert Inputs:

Length (ft)	Slope (%)	Manning's n	Max. Headwater (ft)	Tailwater (ft)	Entrance Loss Coef. (Ke)
60.00	2.00	0.0240	6.50	0.00	0.90

Culvert Results:

Design Discharge = 44.98 cfs

Minimum pipe diameter: 1 - 30 inch pipe(s) required

Subwatershed Hydrology Detail:

Stru #	SWS #	SWS Area (ac)	Time of Conc (hrs)	Musk K (hrs)	Musk X	Curve Number	UHS	Peak Discharge (cfs)	Runoff Volume (ac-ft)
#1	1	13.000	0.125	0.000	0.000	70.000	M	12.84	1.290
	2	16.000	0.125	0.000	0.000	81.000	F	32.44	2.943
	Σ	**29.000**						**44.98**	**4.232**