

west virginia department of environmental protection

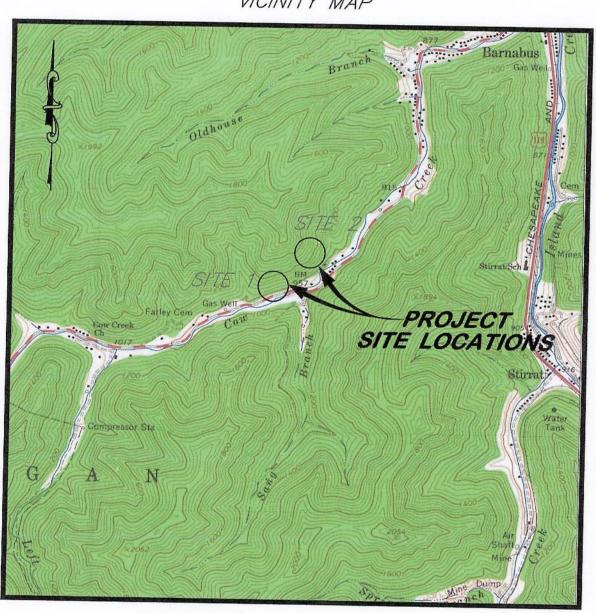
EARL RAY TOMBLIN, GOVERNOR RANDY C. HUFFMAN, CABINET SECRETARY

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

COW CREEK (BROWNING) PORTALS

NEAR BARNABUS LOGAN COUNTY, WEST VIRGINIA



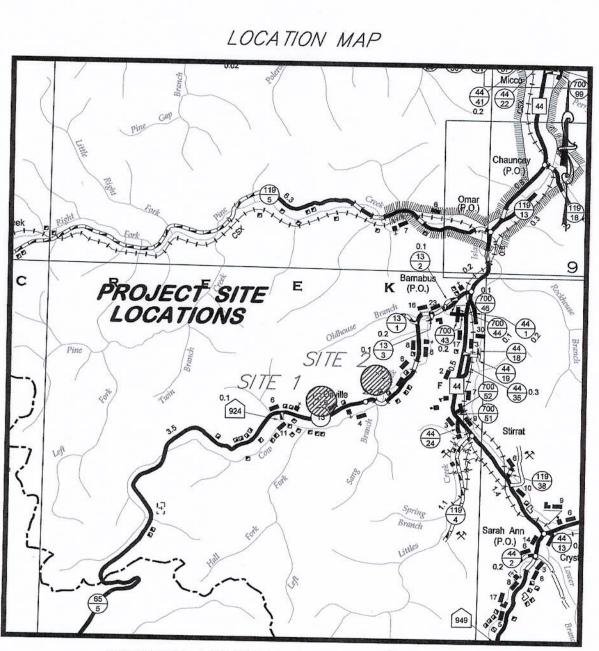


USGS 7.5' QUAD (BARNABUS)

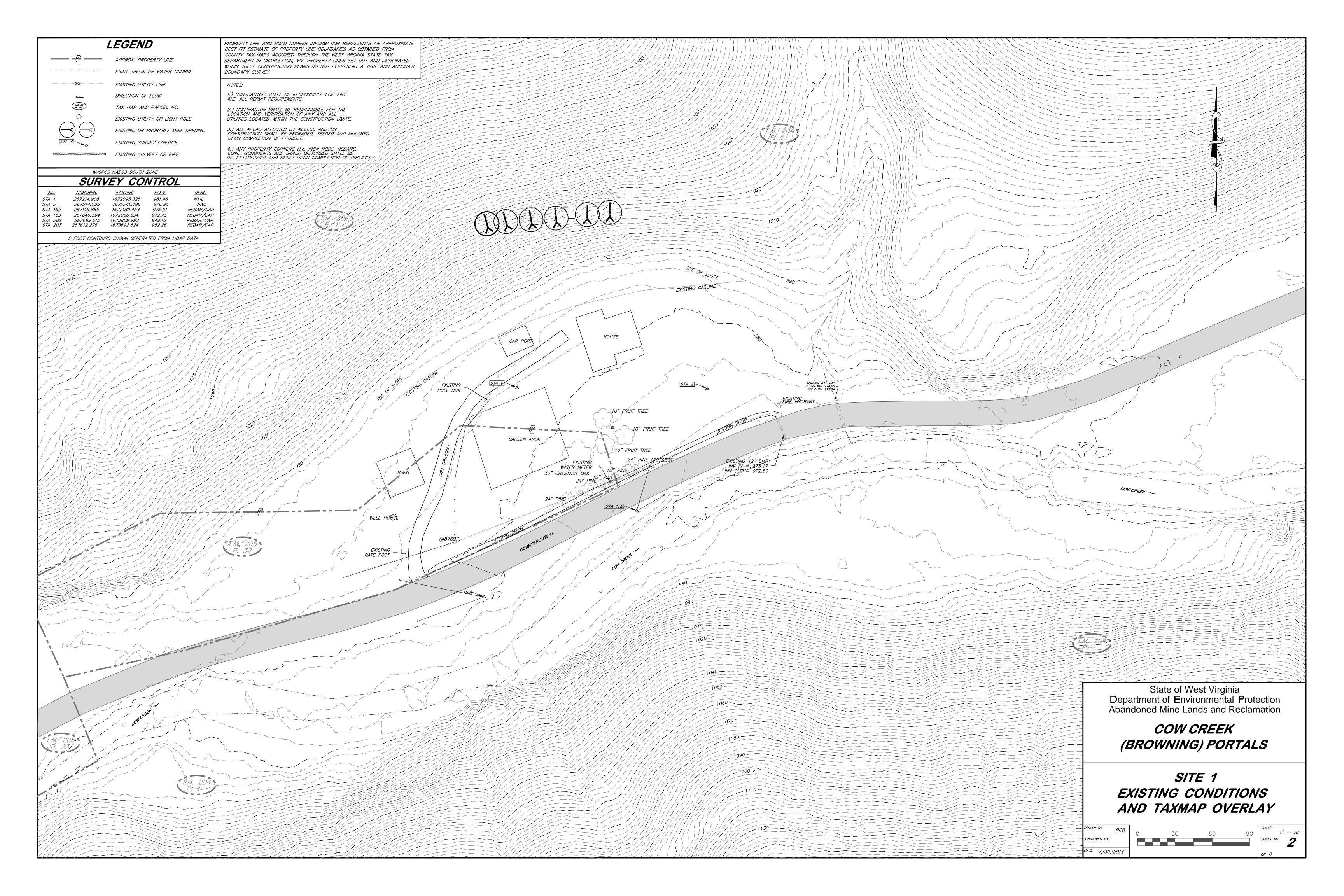
SHEET NO.	INDEX TO SHEETS DESCRIPTION			
2	SITE 1 - EXISTING CONDITIONS AND TAX MAP OVERLAY			
3	SITE 2 - EXISTING CONDITIONS AND TAX MAP OVERLAY			
4	SITE 1 - RECLAMATION PLAN AND SEDIMENT CONTROL PLAN			
5	SITE 2 - RECLAMATION PLAN AND SEDIMENT CONTROL PLAN			
6	PIPE PROFILE, DITCH PROFILE AND TYPICAL SECTIONS			
7	TYPICAL DETAILS (1)			
8	TYPICAL DETAILS (2)			

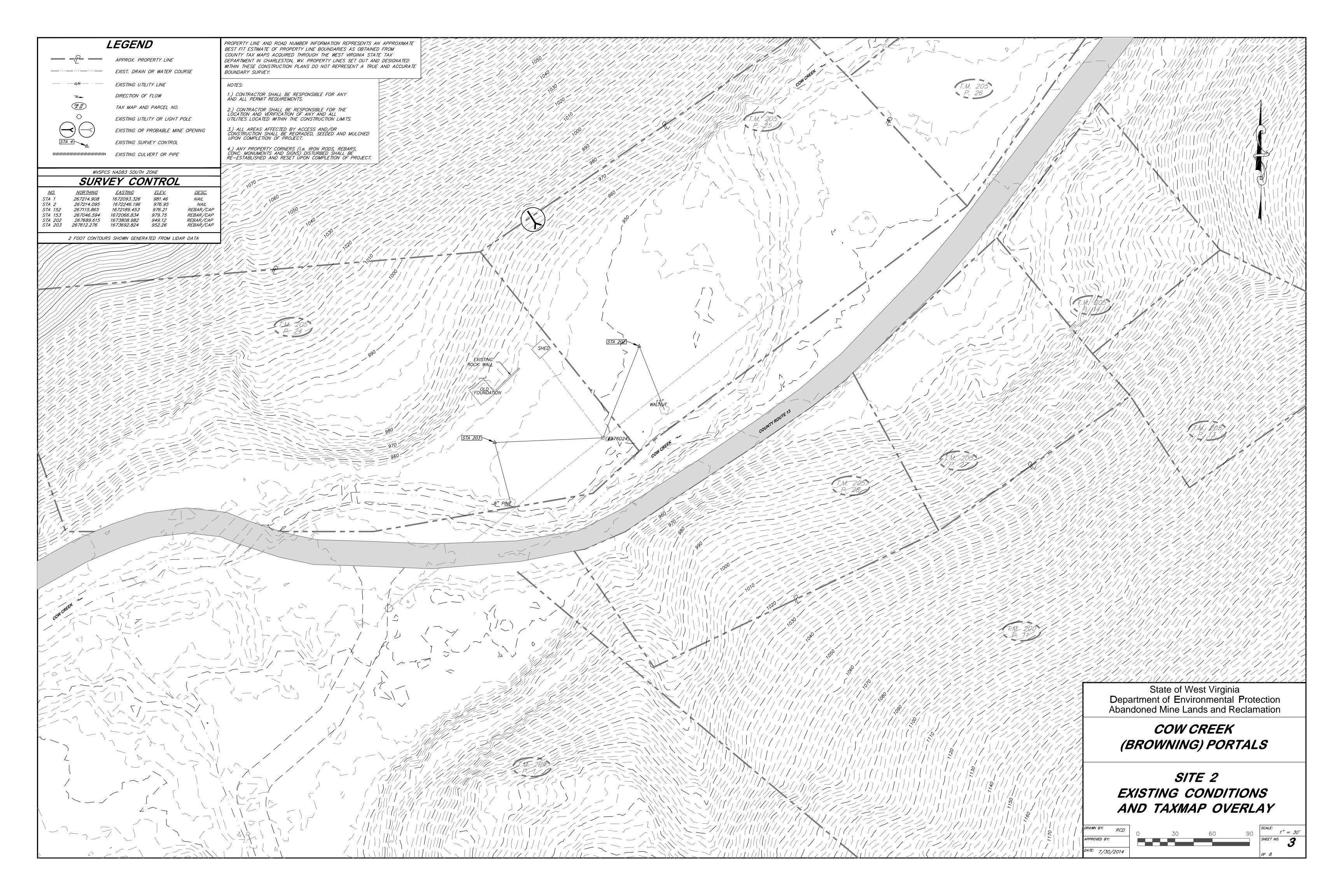
ITEM NO.	DESCRIPTION	QUANTITY
1.0	MOBILIZATION AND DEMOBILIZATION (LIMITED TO 10% OF TOTAL BID)	
2.0	CONSTRUCTION LAYOUT (LIMITED TO 5% OF TOTAL BID)	
3.0	QUALITY CONTROL (LIMITED TO 3% OF TOTAL BID)	LS
4.1	SITE PREPARATION (LIMITED TO 10% OF TOTAL BID)	LS
4.2	GRAVEL DRIVE REHABILITATION	52 TONS
5.1	SILT FENCE	374 LF
5.2	STABILIZED CONSTRUCTION ENTRANCE	25 TONS
6.0	REVEGETATION	LS
7.1	12" HDPE PIPE	155 LF
7.2	6' GRASS LINED CHANNEL	120 LF
7.3	TYPE "G" DROP INLET	1 EA.
7.4	4' x 4' UNDERDRAIN	100 LF
7.5	UNDERDRAIN CONVEYANCE PIPE	100 LF
8.0	FOAM MINE SEAL	130 BAGS

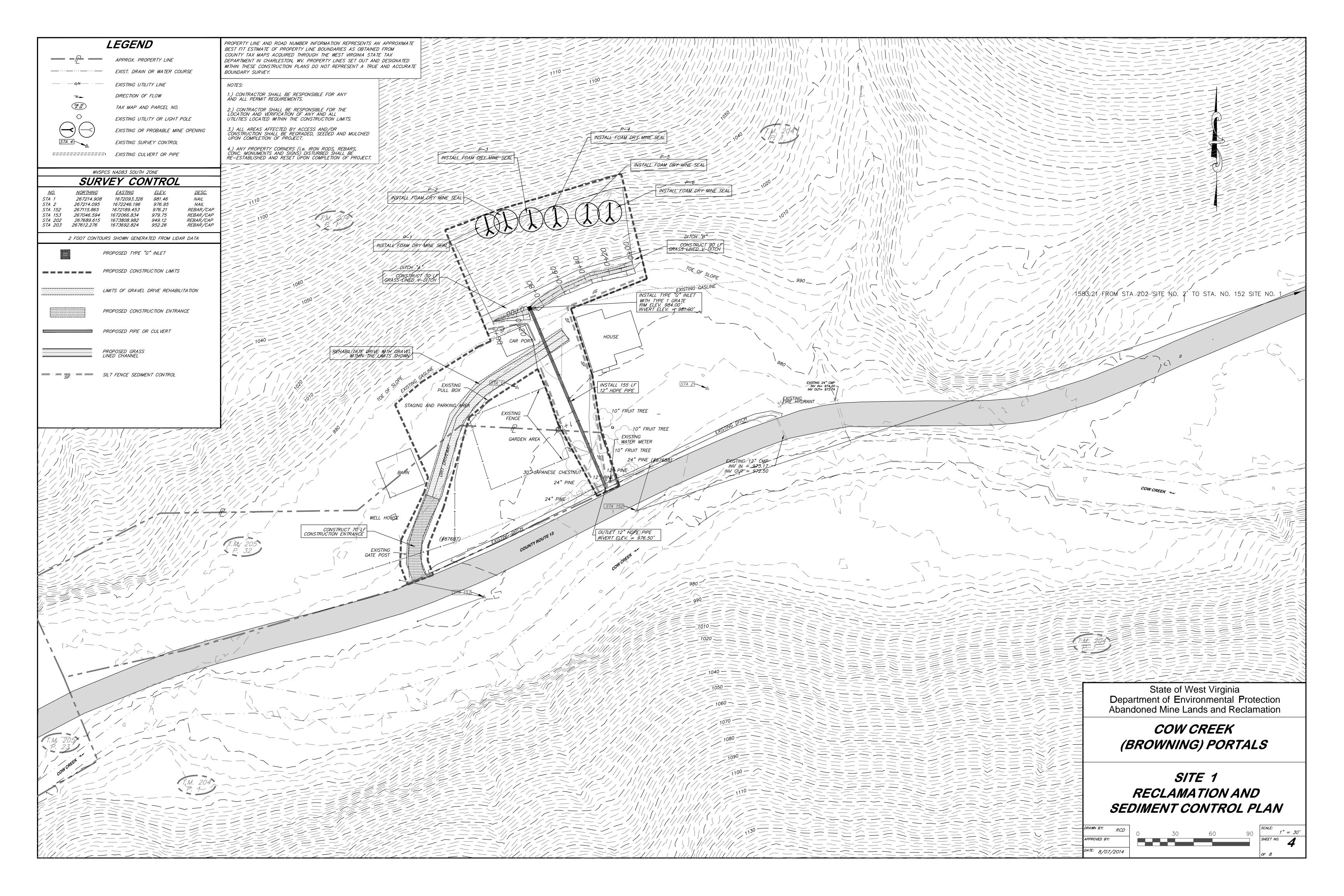


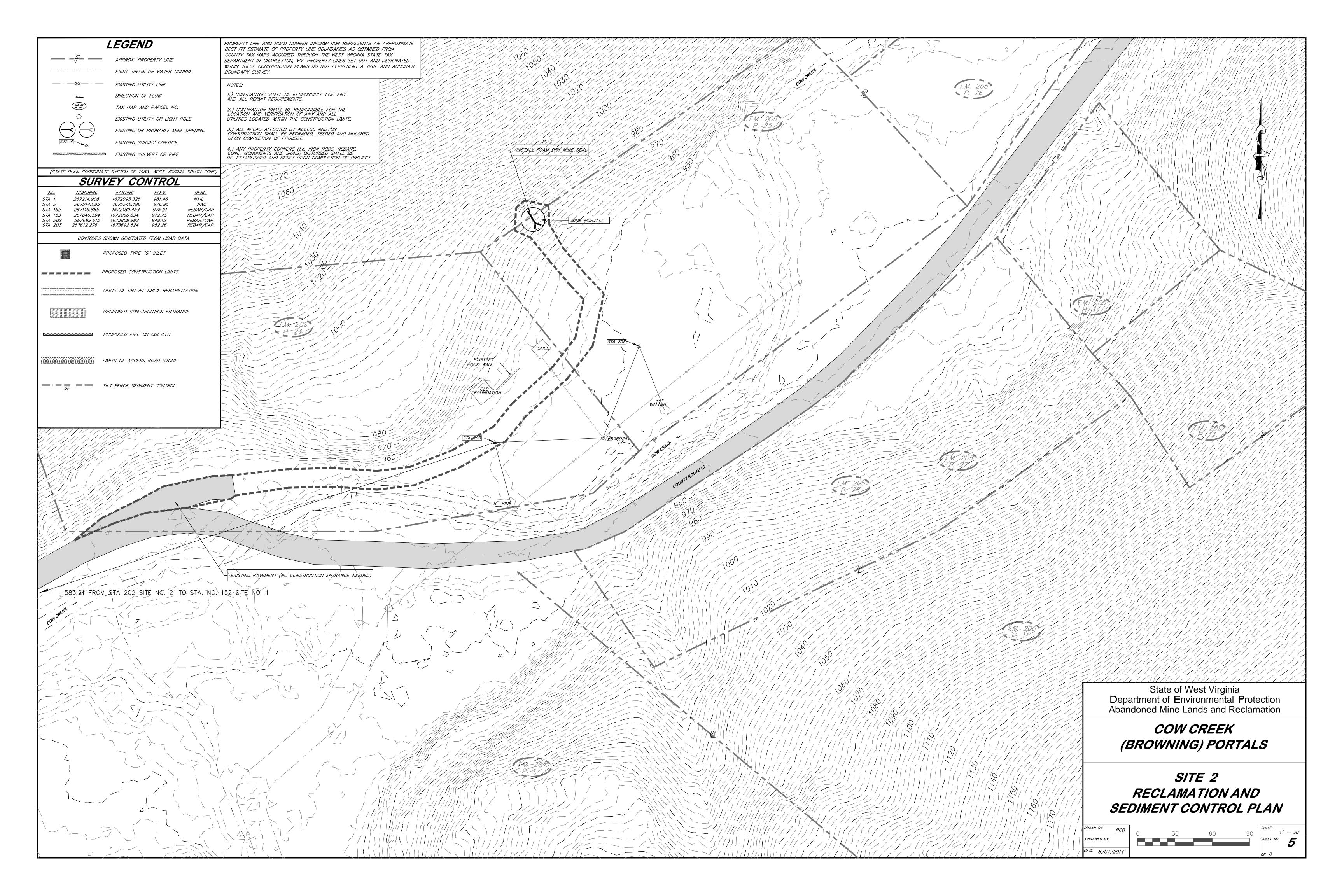


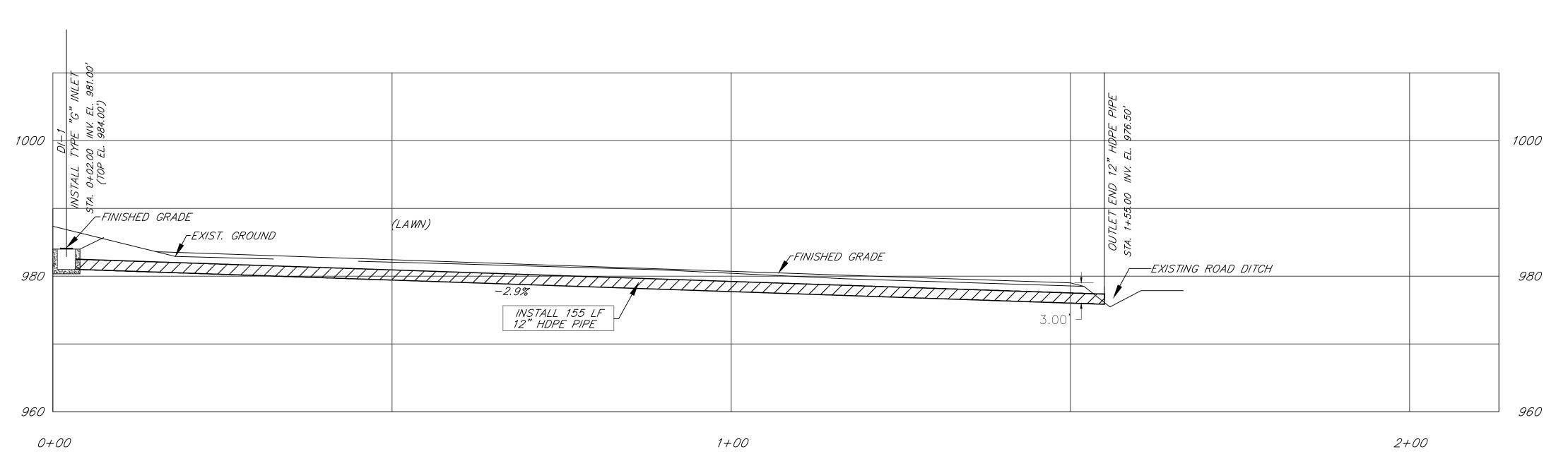
COUNTY HIGHWAY MAP , 1" = 1 MI.



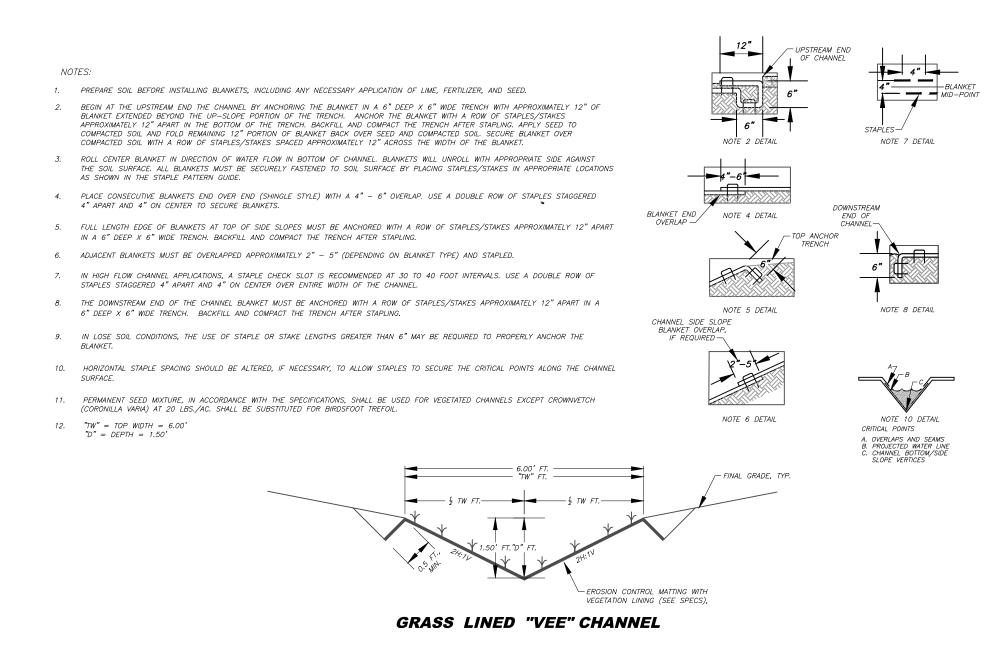




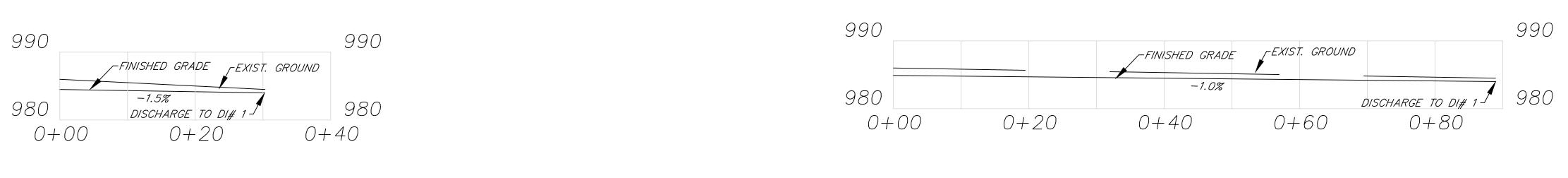




PROFILE - 12" HDPE PIPE (SITE 1)



DETAIL 7.5.1 GRASS LINED CHANNEL NOT TO SCALE



PROFILE VIEW DITCH "A" (SITE 1)

PROFILE VIEW DITCH "B" (SITE 1)

SCALE: 1" = 10'

State of West Virginia

Department of Environmental Protection

Abandoned Mine Lands and Reclamation

COW CREEK (BROWNING) PORTALS

SITE 1
PIPE PROFILE AND
DITCH PROFILES AND SECTION

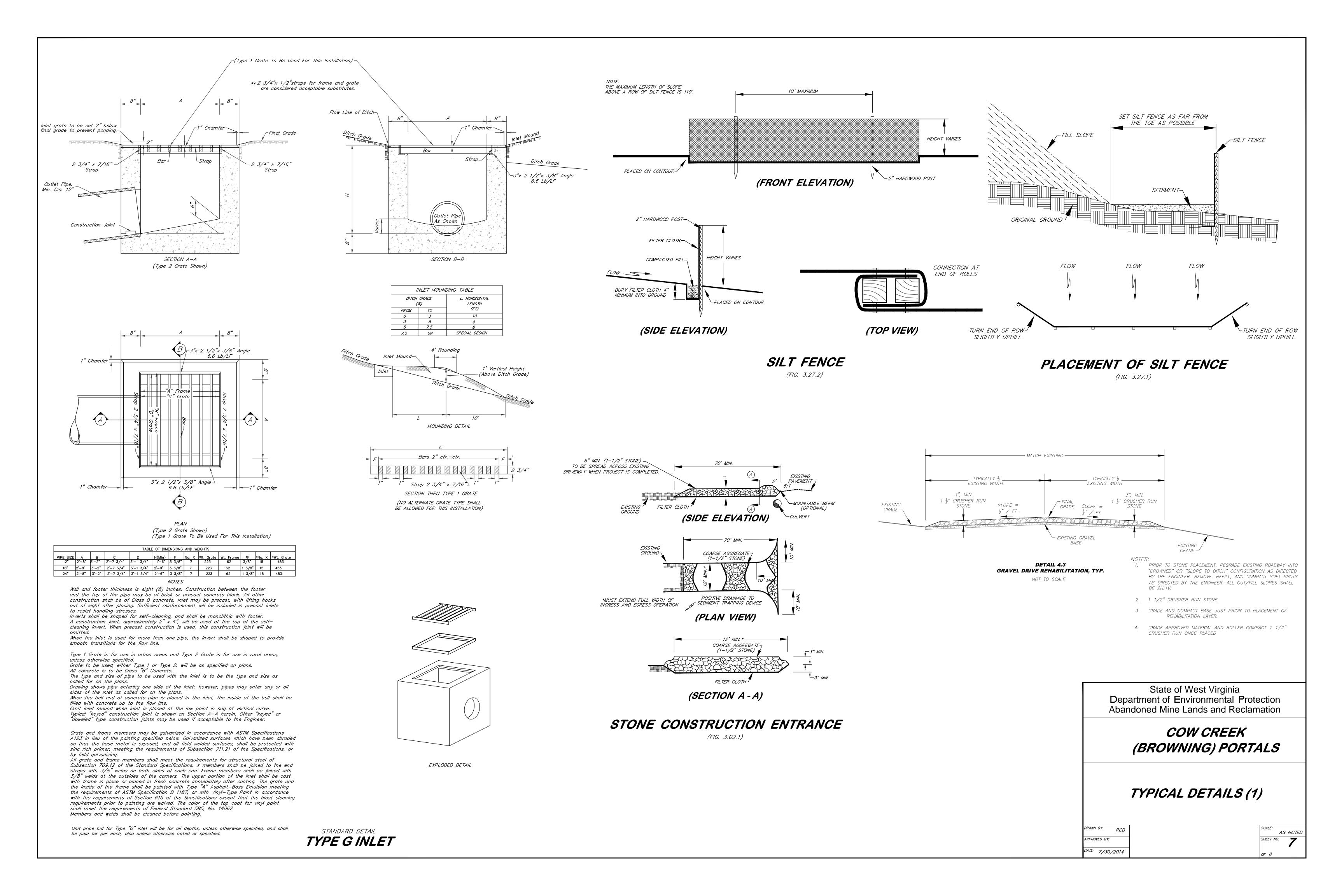
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PPROVE	ED BY:		
4 <i>TE:</i>	7/30/.	2014	

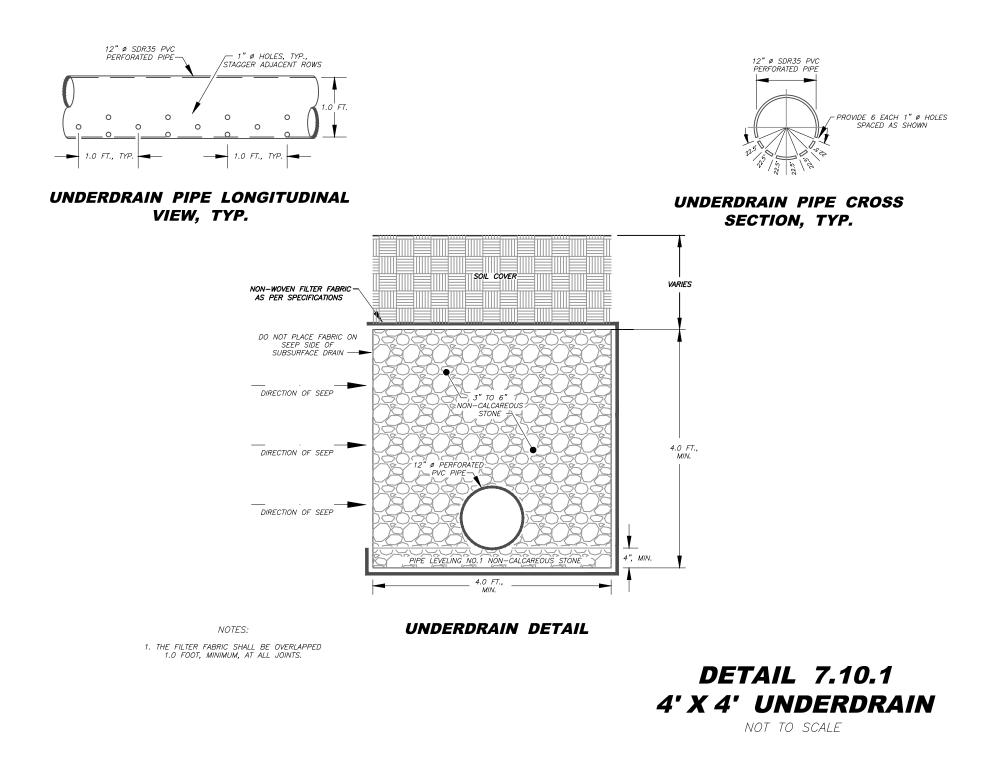
SCALE:

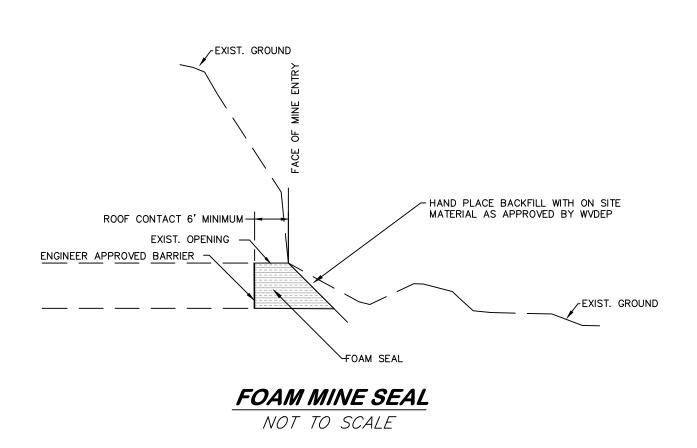
AS NOTED

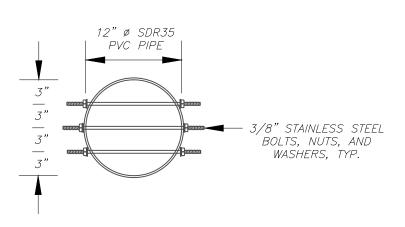
SHEET NO.

6



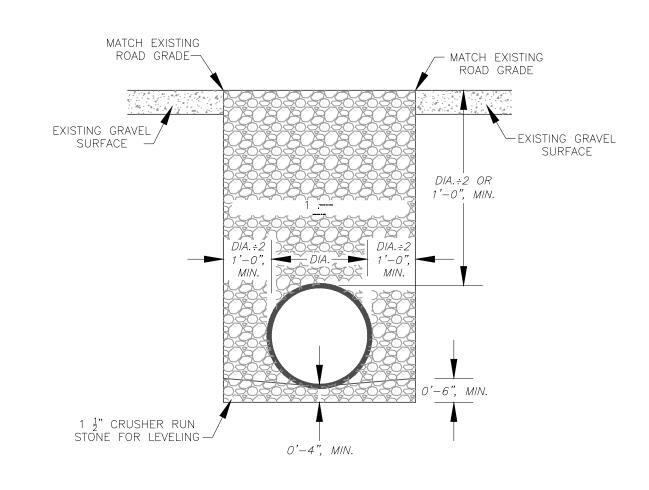




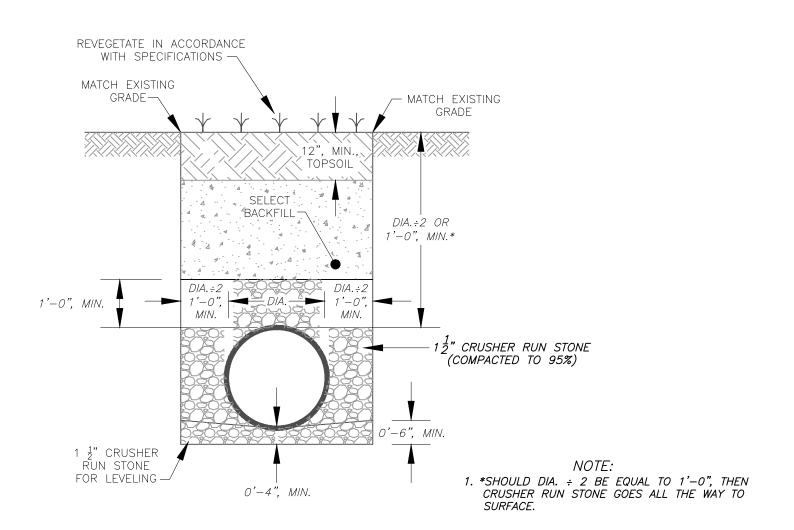


12" Ø PVC PIPE ANIMAL GUARD CROSS SECTION, TYP.

SCALE: 1" = 1 FT.



DETAIL 7.6.3d
PIPE TRENCH - AGGREGATE SURFACE
NOT TO SCALE



DETAIL 7.6.3E

PIPE TRENCH - VEGETATED SURFACE

NOT TO SCALE

State of West Virginia
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COW CREEK (BROWNING) PORTALS

TYPICAL DETAILS (2)

DRAWN BY: RCD

APPROVED BY:

DATE: 3/04/2015

SCALE:

AS NOTED

SHEET NO.