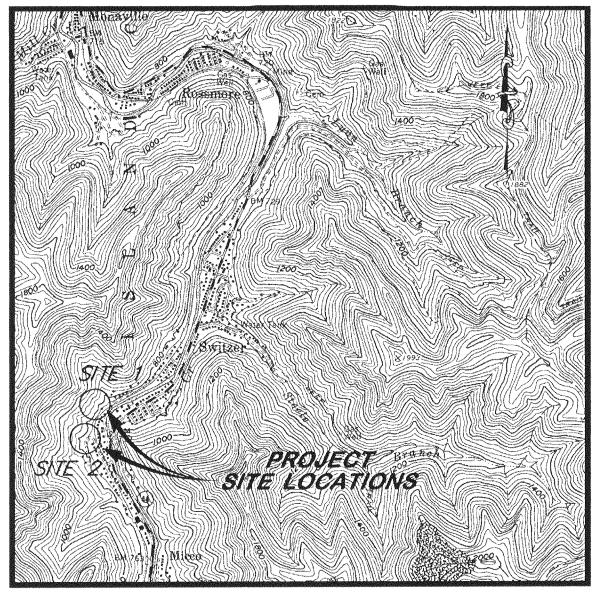




VICINITY , WAR



USGS 7.5' QUAD (LOGAN)

	VDEX O SHEEIS
WOLL / NO.	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	SITE 1 - PROFILE, BASELINE CROSS SECTIONS AND TYPICAL SECTIONS
7	SITE 2 - PROFILE 12" SDR-35 PVC PIPE / TYPICAL DETAILS (1)
8	TYPICAL DETAILS (2)
9	TYPICAL DETAILS (3)
10	SITE 1 – PROFILE CHANNELS "B", "C", "E" AND "F"/TYPICAL DETAILS (4)
11	TYPICAL DETAILS (5)
12	SEDIMENT CONTROL DETAILS

west virginia department of environmental protection

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

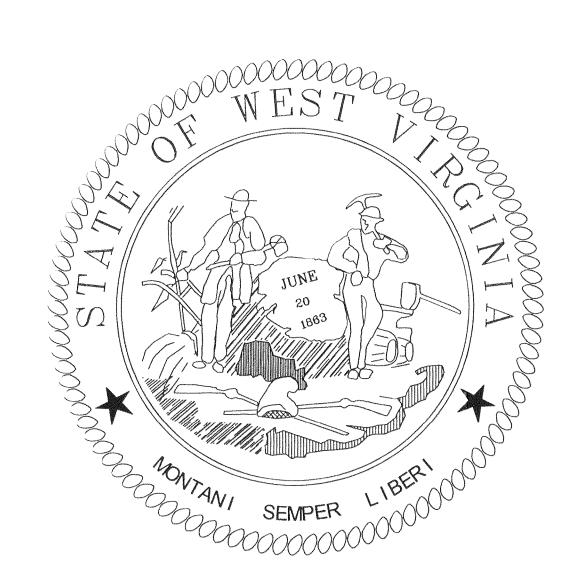
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

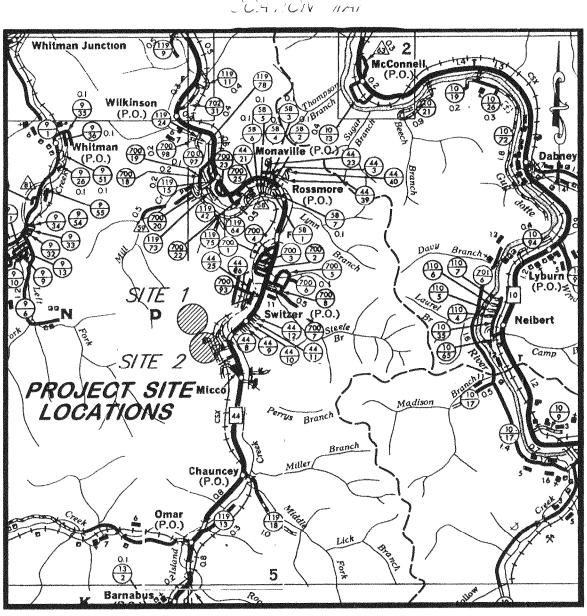
AT SWITZER LOGAN COUNTY, WEST VIRGINIA



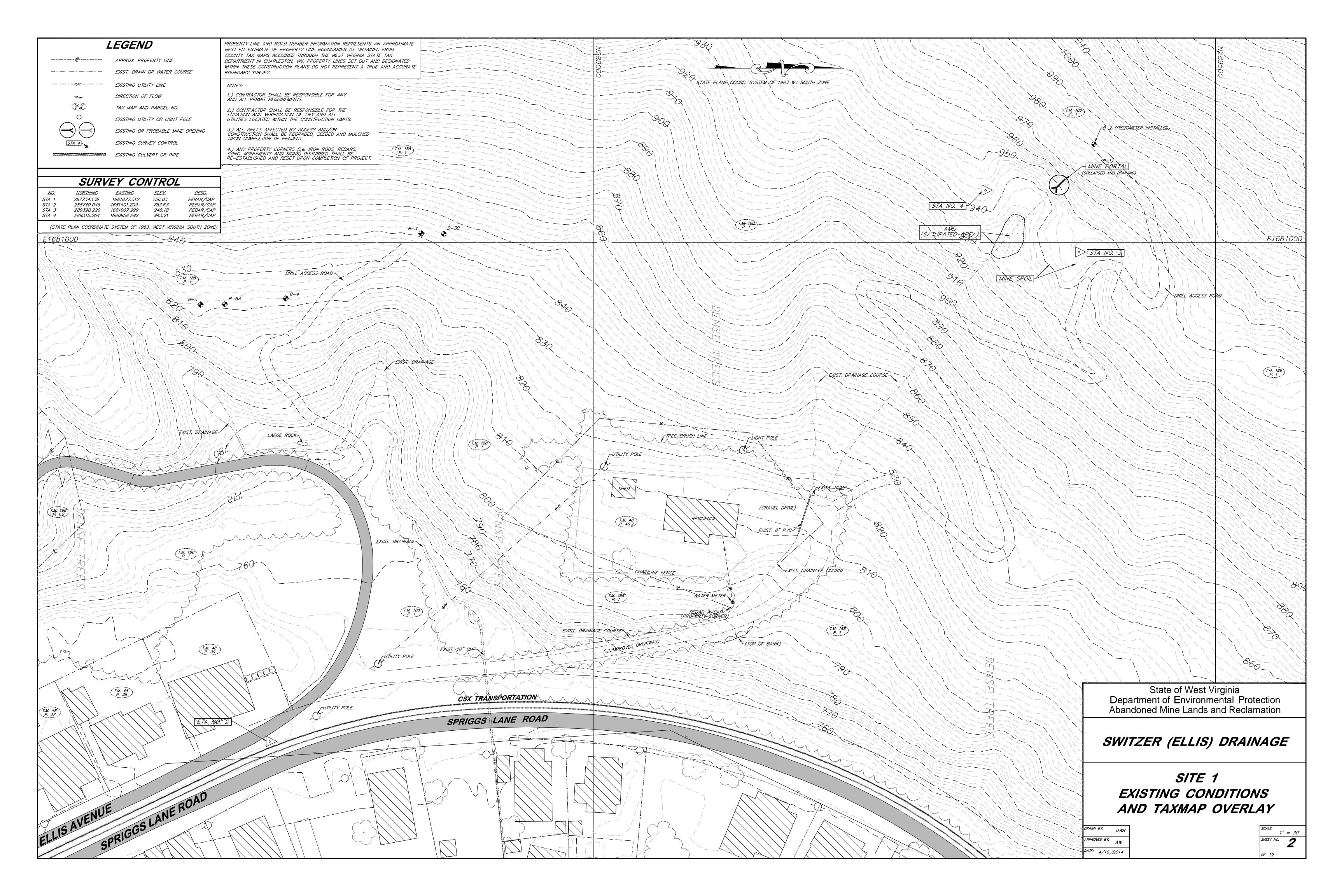
BID SCHEDULE DESCRIPTION QUANTITY ITEM NO. MOBILIZATION AND DEMOBILIZATION (LIMITED TO 10% OF TOTAL BID) 1.0 LS 2.0 CONSTRUCTION LAYOUT (LIMITED TO 5% OF TOTAL BID) 3.0 QUALITY CONTROL (LIMITED TO 3% OF TOTAL BID) LS 4.0 SITE PREPARATION (LIMITED TO 10% OF TOTAL BID) LS ACCESS ROAD STONE 250 TONS 4.1 GRAVEL DRIVE REHABILITATION 190 TONS 4.2 420 LF 5.0 SILT FENCE 335 LF 12" STRAW WATTLE 5.1 75 TONS STONE CONSTRUCTION ENTRANCE 5.2 5.3 ROCK CHECK DAM 5 EA. 530 SY MATTING 5.4 LS 6.0 REVEGETATION 7.1 4' GRASS LINED V-DITCH 210 LF 4' GROUTED ROCK RIPRAP V-DITCH 20 LF 7.2 7.3 6' GROUTED ROCK RIPRAP DITCH 210 LF 8' GROUTED ROCK RIPRAP DITCH 7.4 750 LF 7.5 12" HDPE PIPE 400 LF 7.6 24" HDPE PIPE 320 LF 5 EA. 7.7 DROP INLETS 2 EA. 7.8 MANHOLES 1 EA. 7.9 TRASH RACK LS UNCLASSIFIED EXCAVATION 8.0 WET/MODIFIED MINE SEAL 1 EA. 9.0 12" MINE SEAL CONVEYANCE PIPE 140 LF 9.1 9.2 SODA ASH BRIQUETTES (50 LB BAG) 10 EA. 60 LF 11.0 UNDERDRA/N 12.1 ASPHALT 340 SY 12.2 SHOULDER STONE 30 TONS

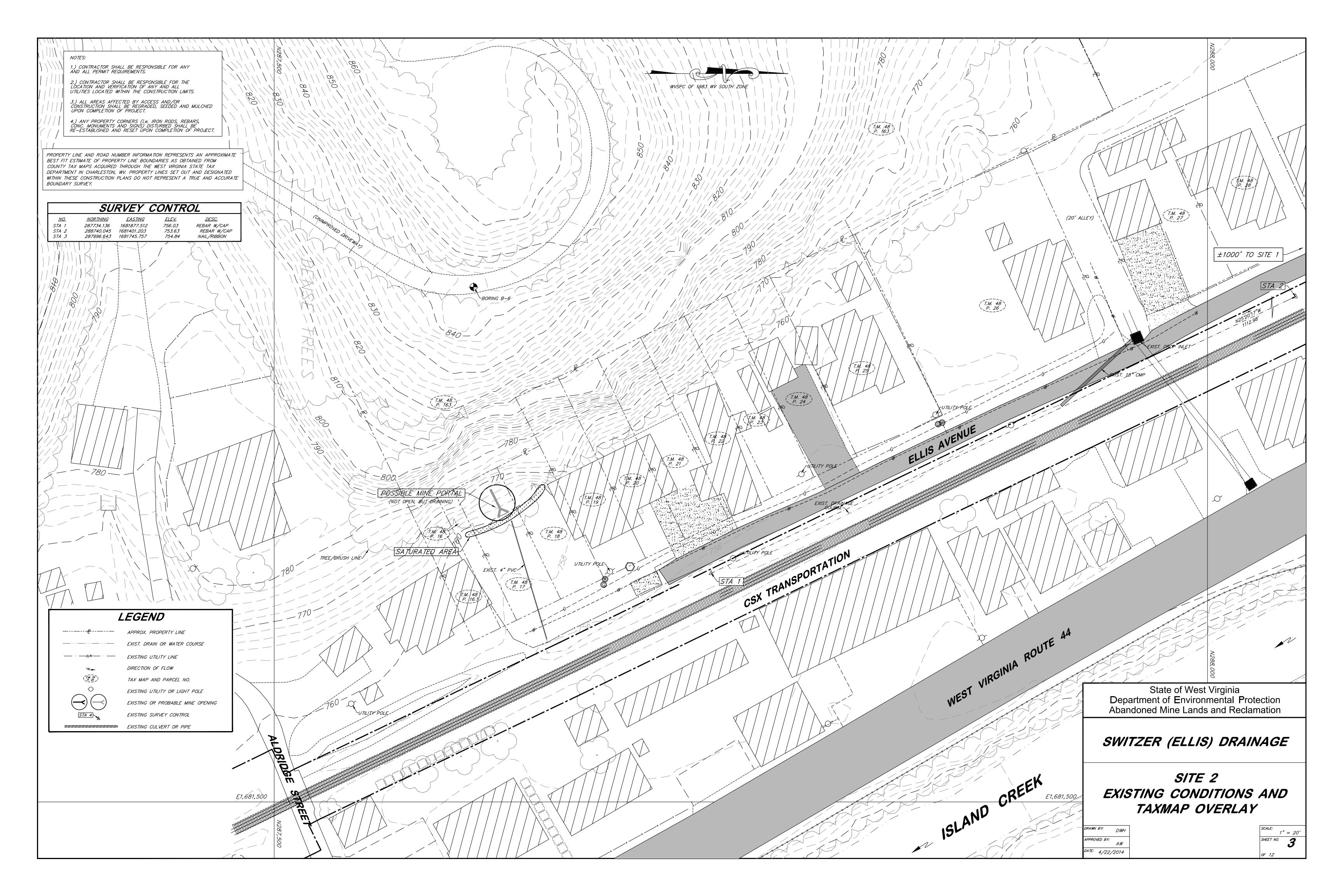
26/15 DATE

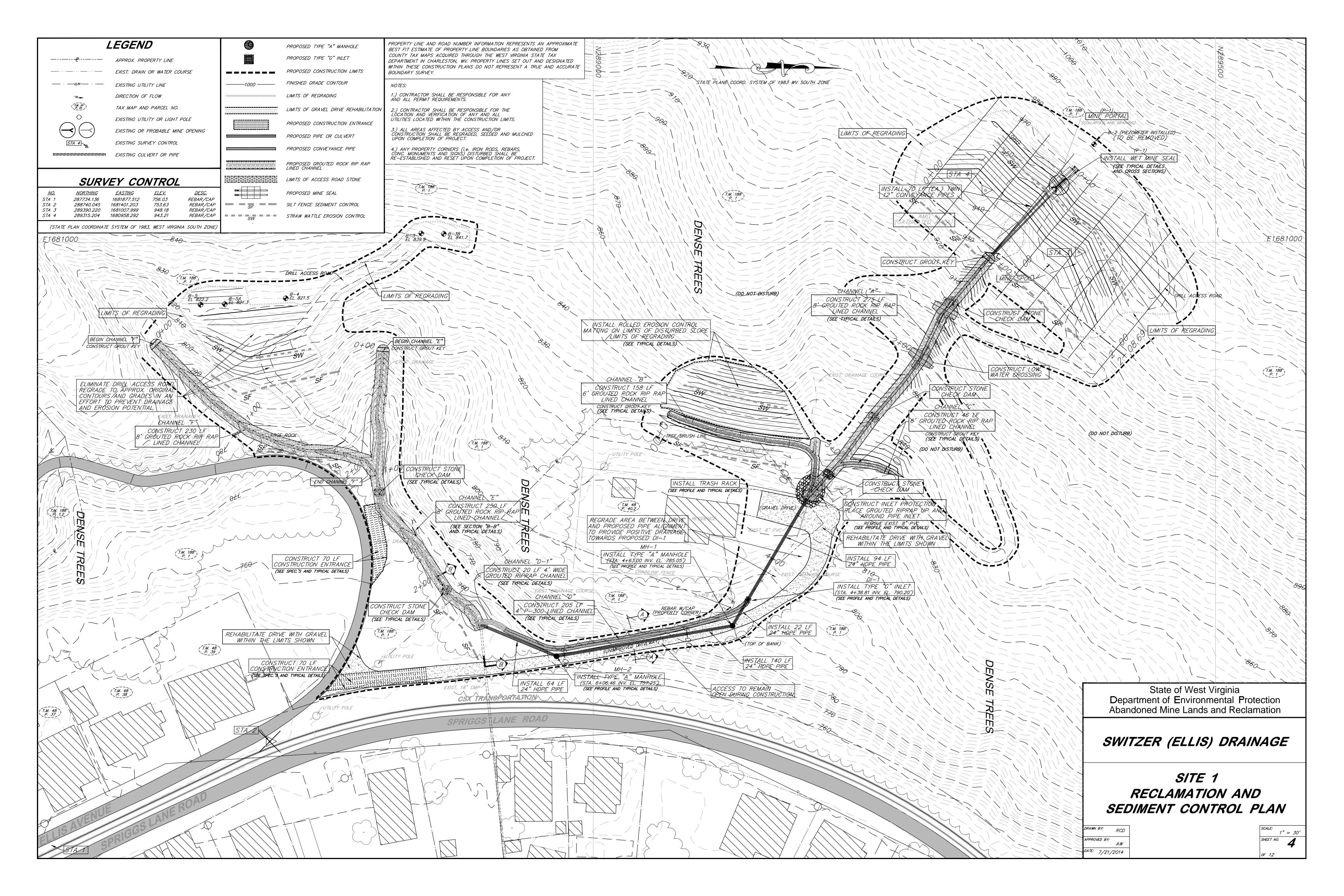


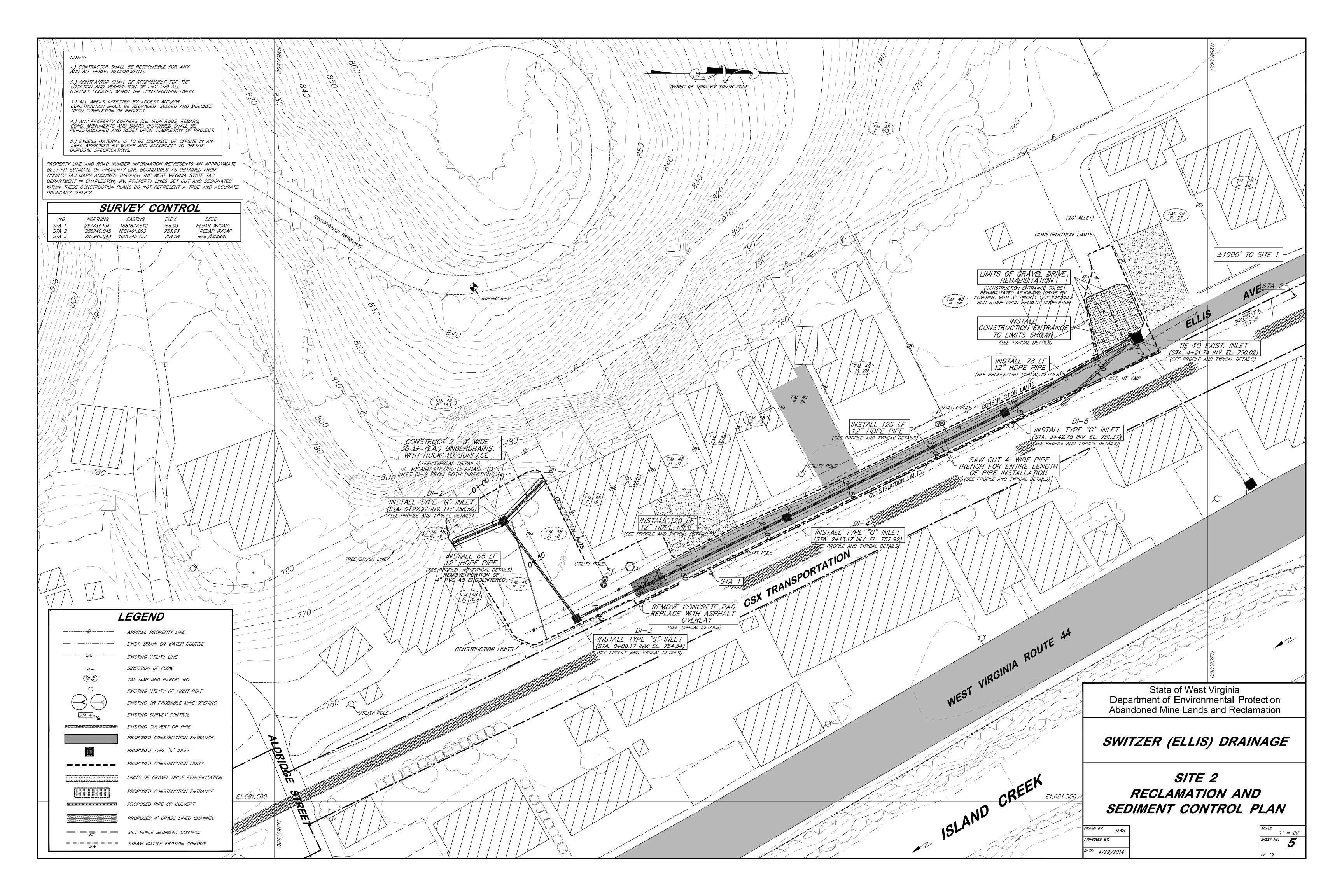


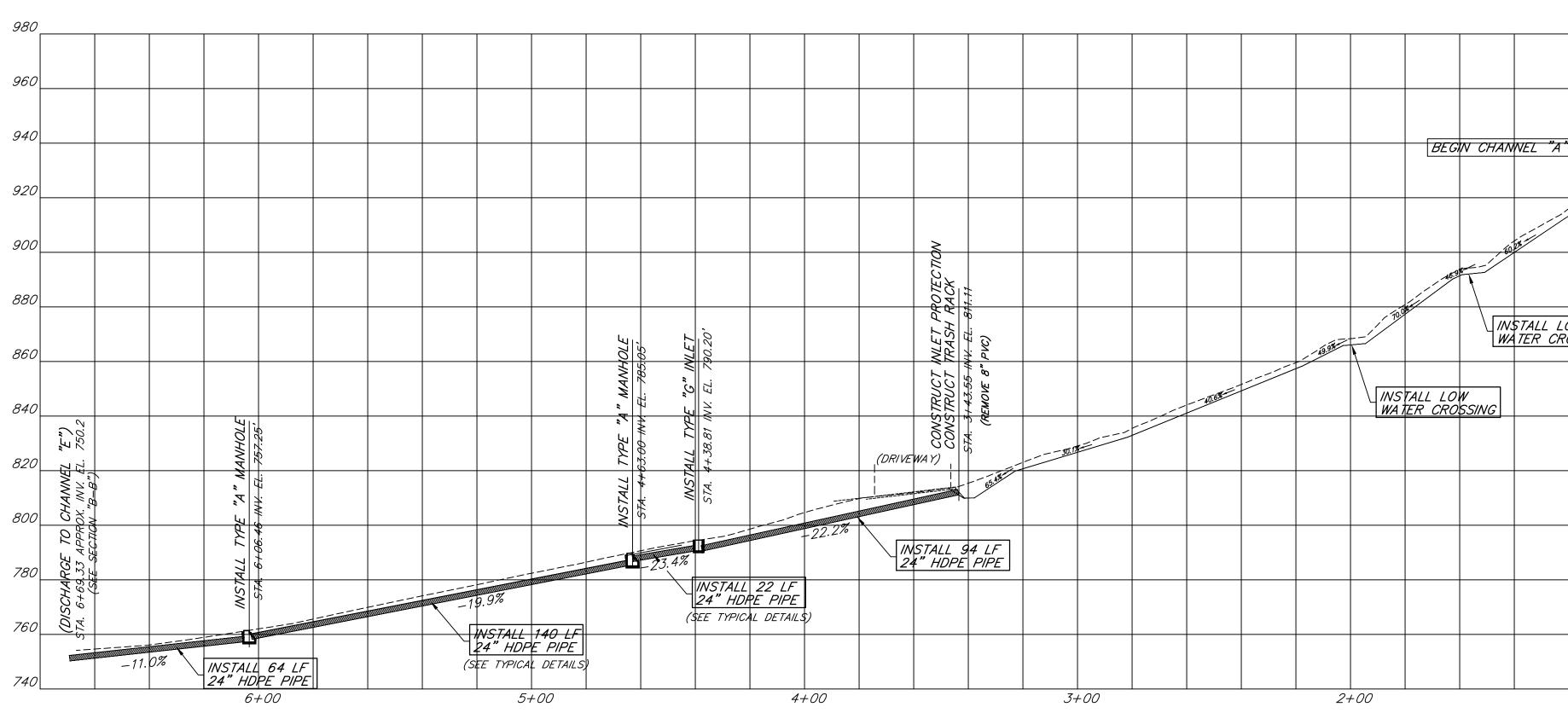
COUNTY HIGHWAY MAP , 1'' = 1 MI.



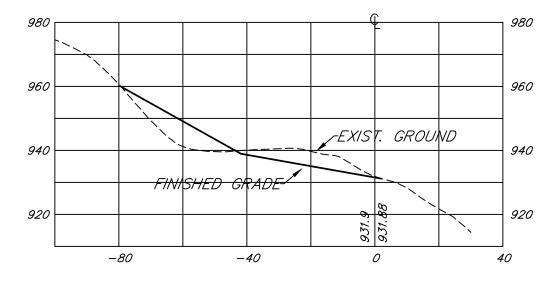


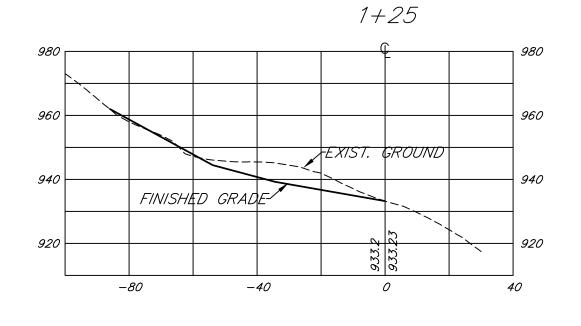


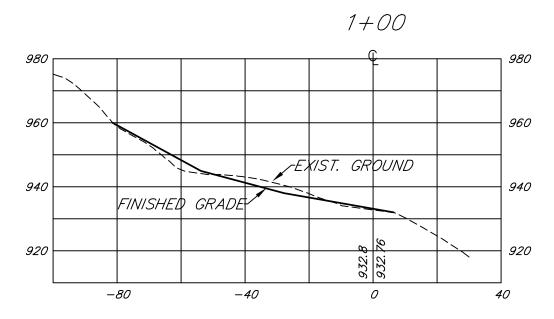


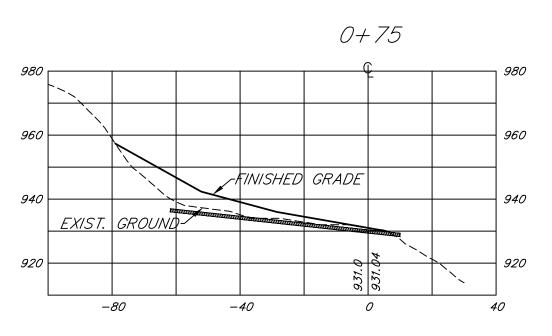


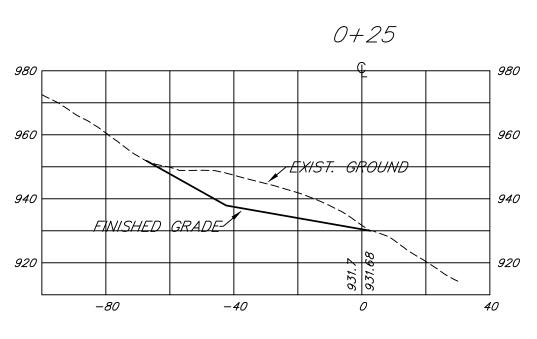
0+50

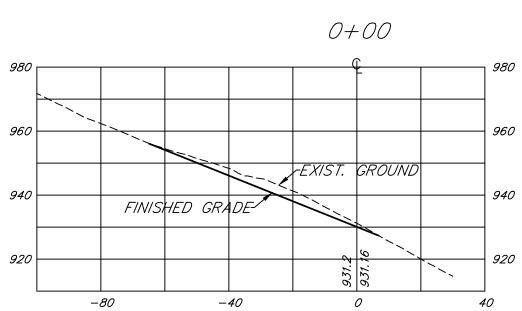






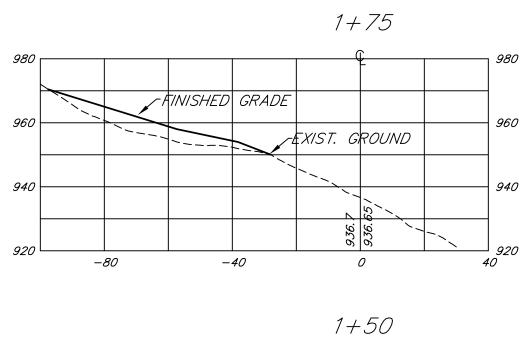


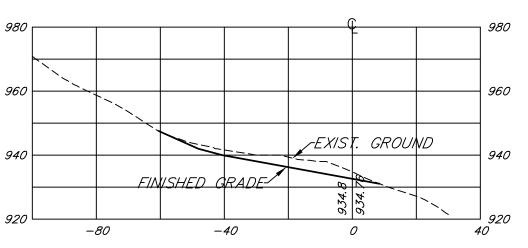




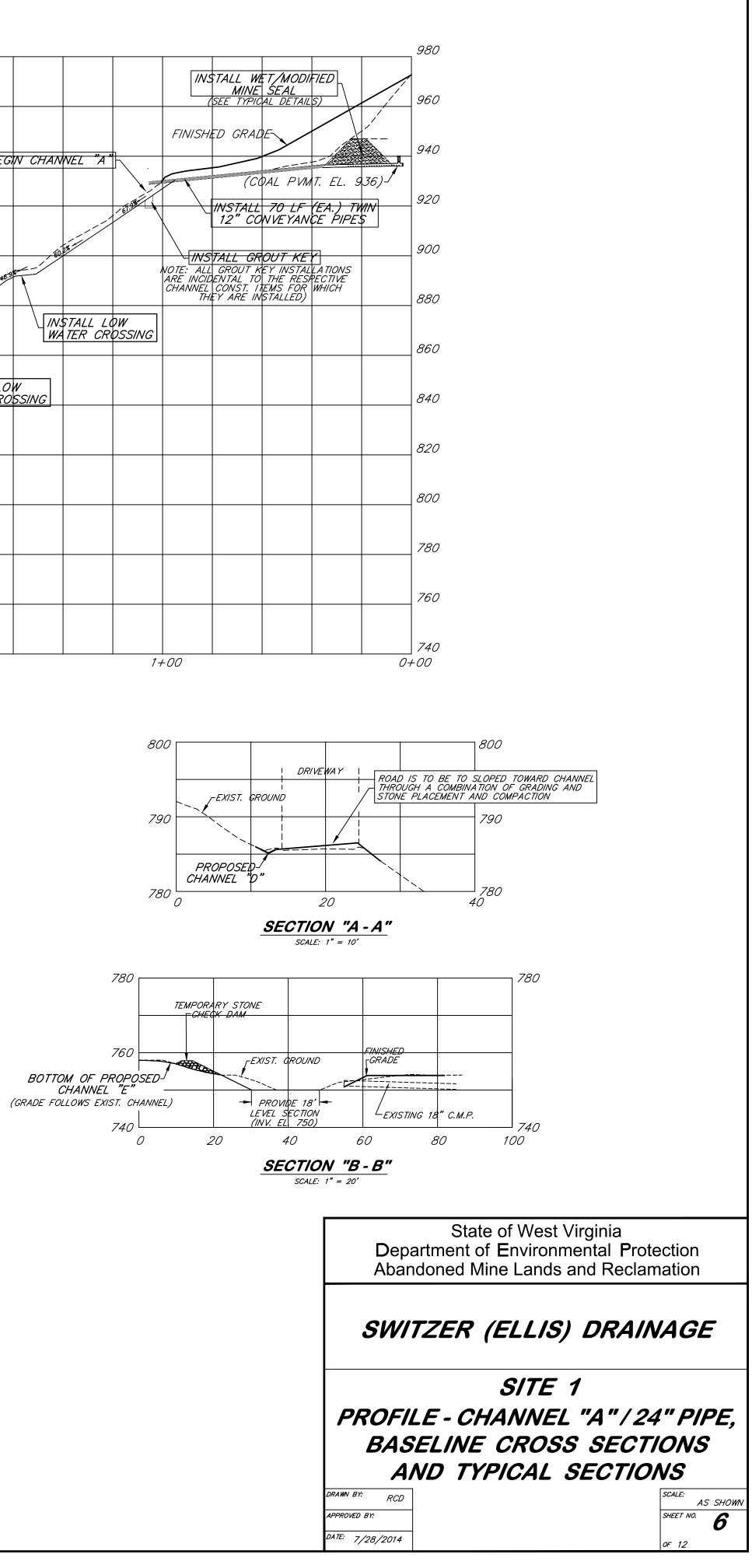


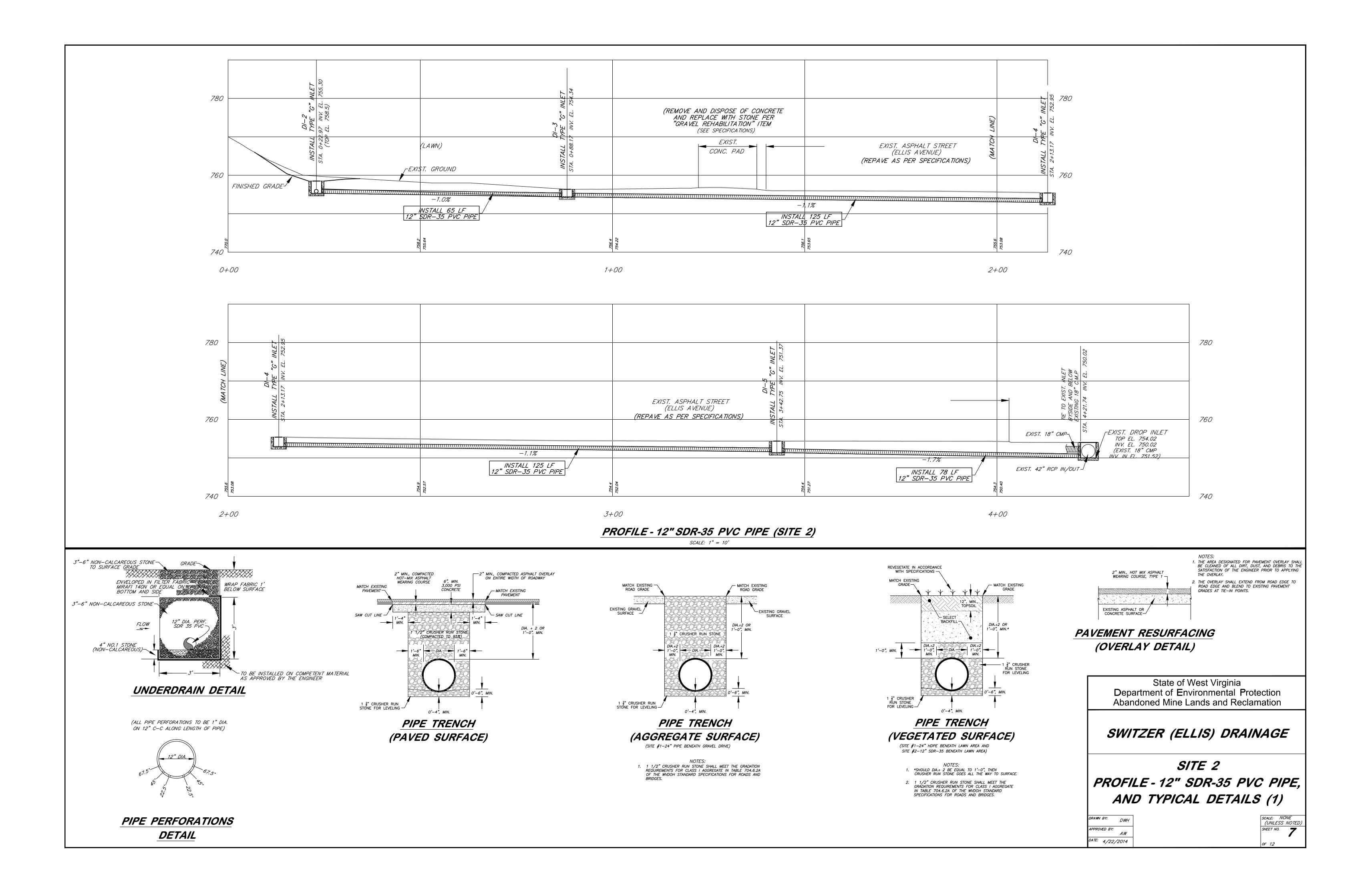


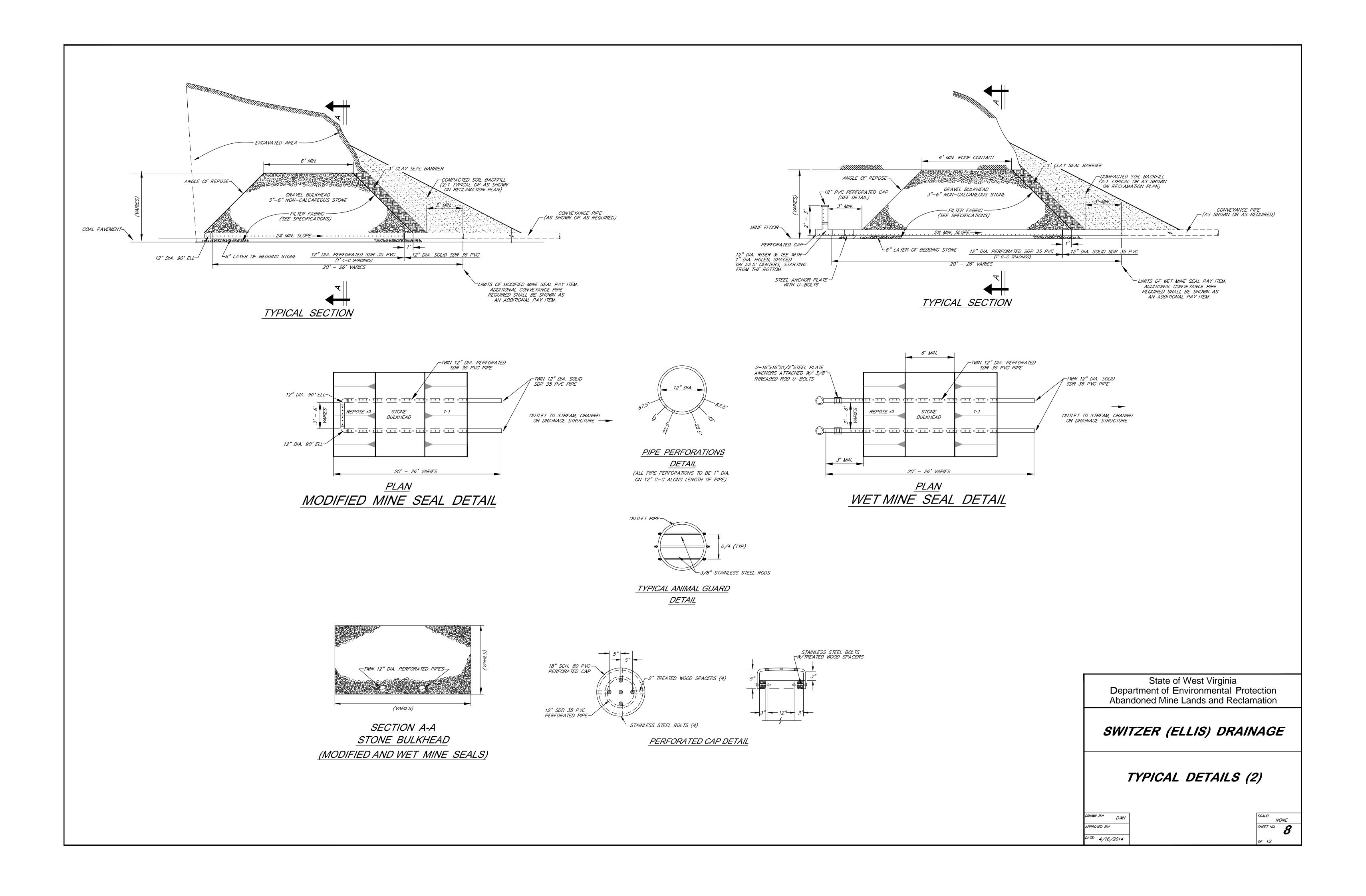


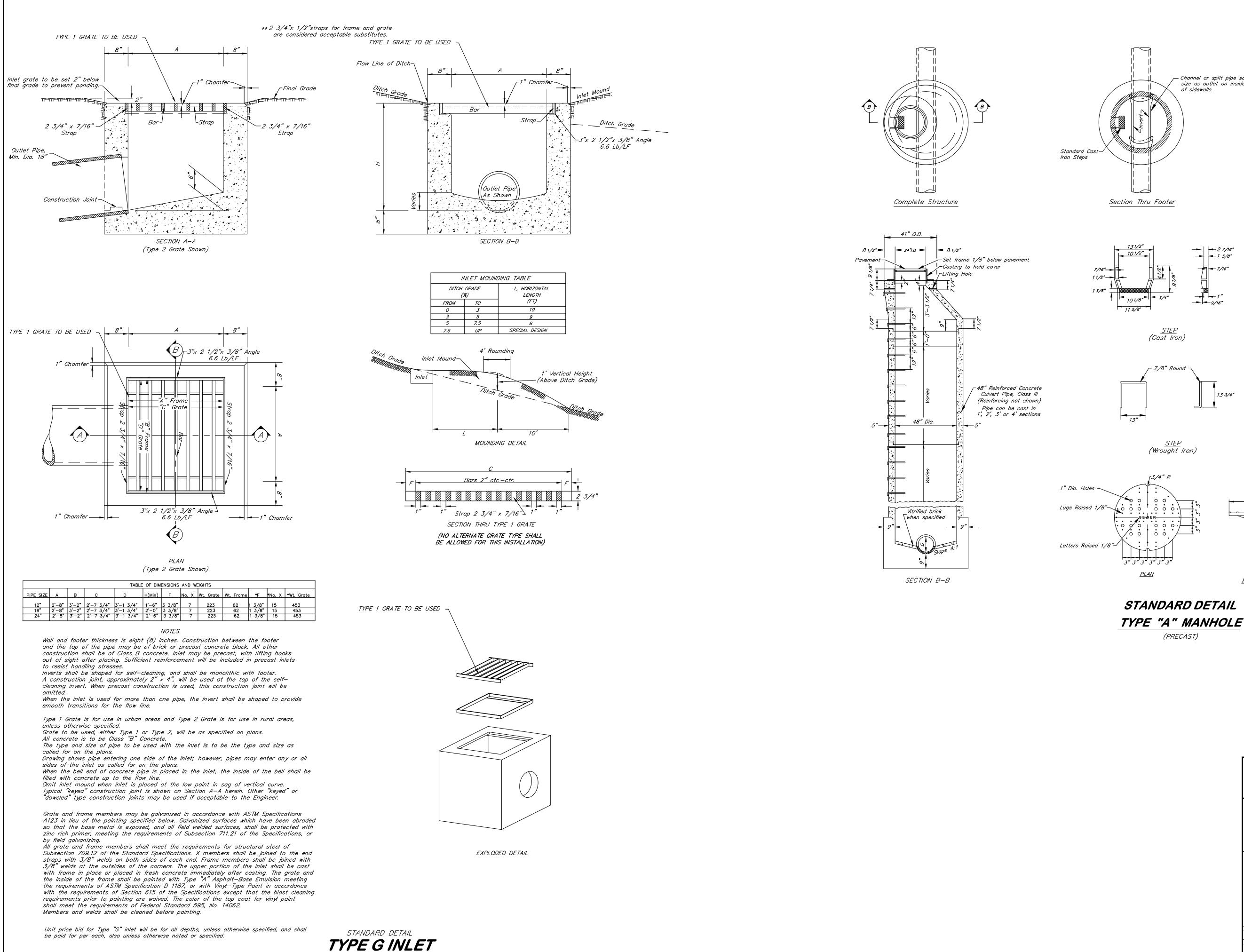


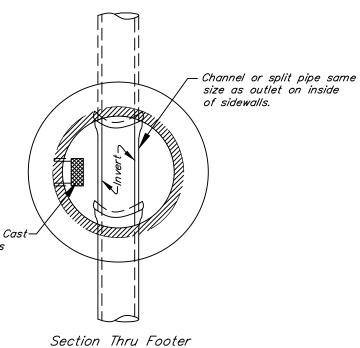


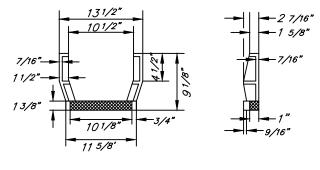


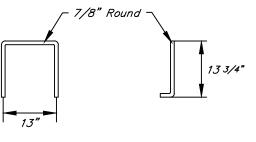


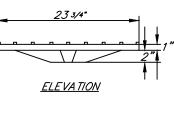






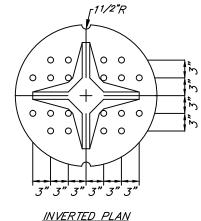






NOTES

MANHOLE COVER

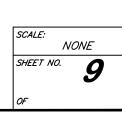


State of West Virginia Department of Environmental Protection Abandoned Mine Lands and Reclamation

SWITZER (ELLIS) DRAINAGE

TYPICAL DETAILS (3)

DRAWN BY: DWH APPROVED BY: AW DATE: 4/16/2014



Manhole cover must fit firmly, to be machine finished if necessary.

SECTION Manhole Frame Casting

All concrete pipe to be used as sidewall for the manhole shall meet the requirements for Class III pipe of Subsection 714.2 of the Standard Specifications Concrete pipe sections may be used in any combination to produce a manhole of desired depth, except the tapered top section shall be

retained as shown. The tapered top sections shall be manufactured and meet the same

requirements as the concrete pipe. Lifting hole in the tapered top section and the circumferential notches in the manhole cover are for handling purposes only.

Drawing shows pipe entering and leaving manhole in a straight line. However, the pipes may enter or leave at any angle or place as called for or shown on the plans.

The footer up to the joint shown shall be Class B concrete.

Castings are to be of the design shown and are to be of Gray-Iron meeting the requirements of Subsection 709.10 of the Standard Specifications. Steps may be either the Cast Iron Step or the Wrought Iron Step as shown and shall conform to the requirements of Subsections 709.10 and 709.11, respectively, of the Standard Specifications.

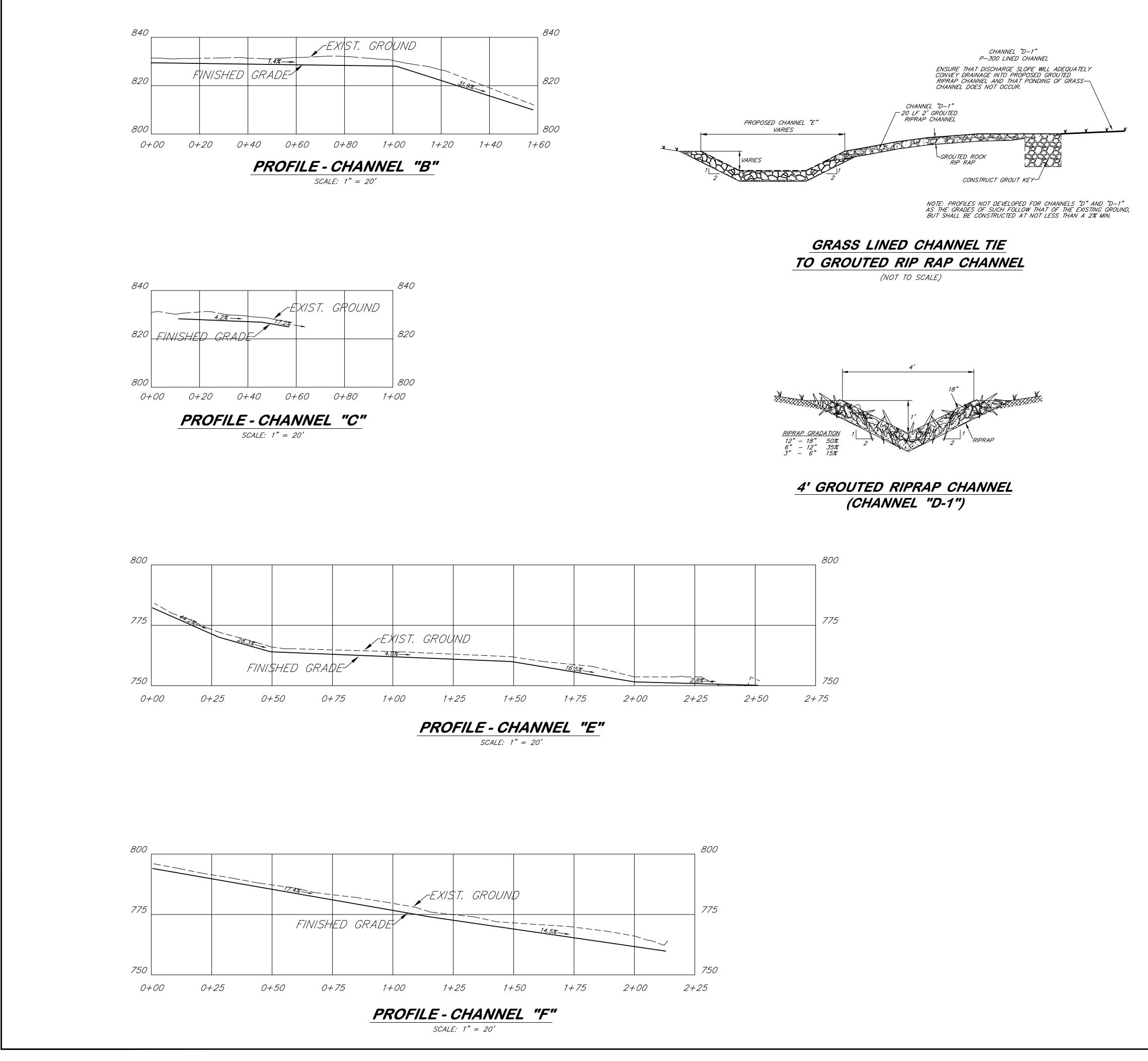
The precast sections of pipe shall be set in joint mortar. The forming of the seat in the footing may be by the use of a section

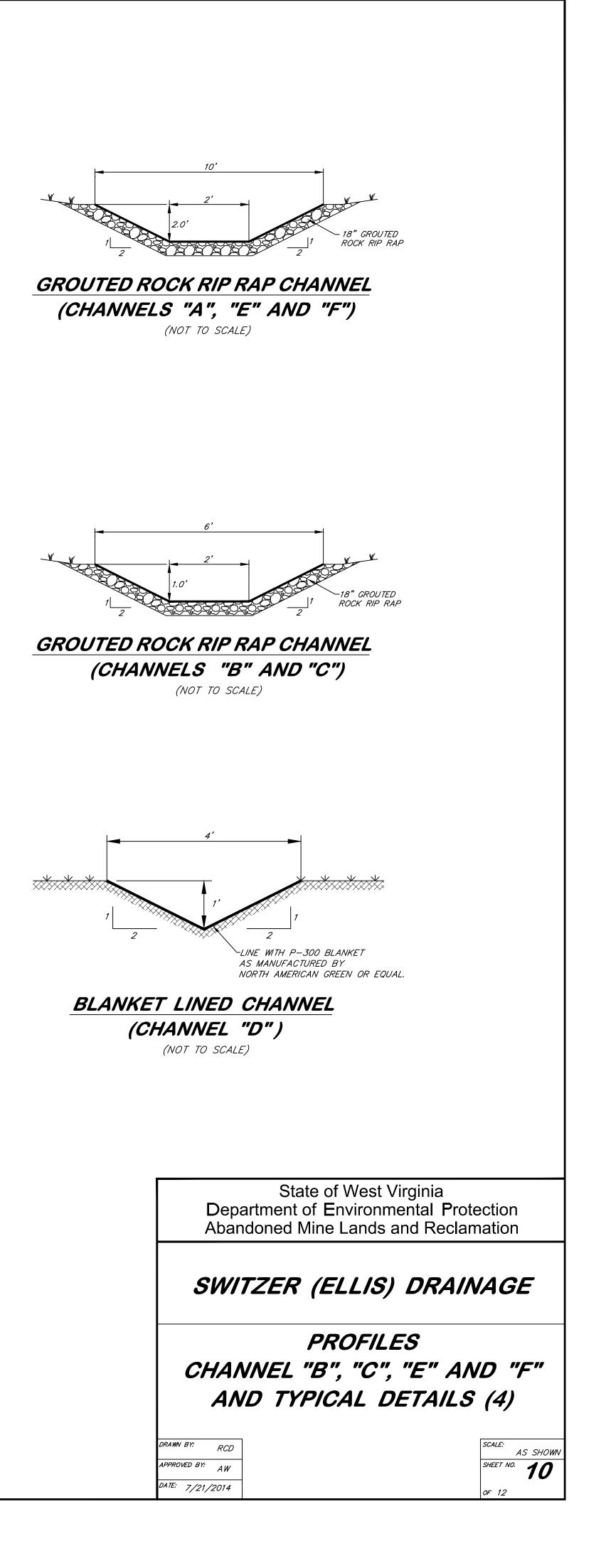
of the precast pipe or by means of a jig. Pipe at elevations of than shown may be joined to the manhole by cutting a hole the size of the connecting pipe in the manhole, inserting the pipe the thickness of the manhole shell and closing all openings around the connecting pipe with joint mortar.

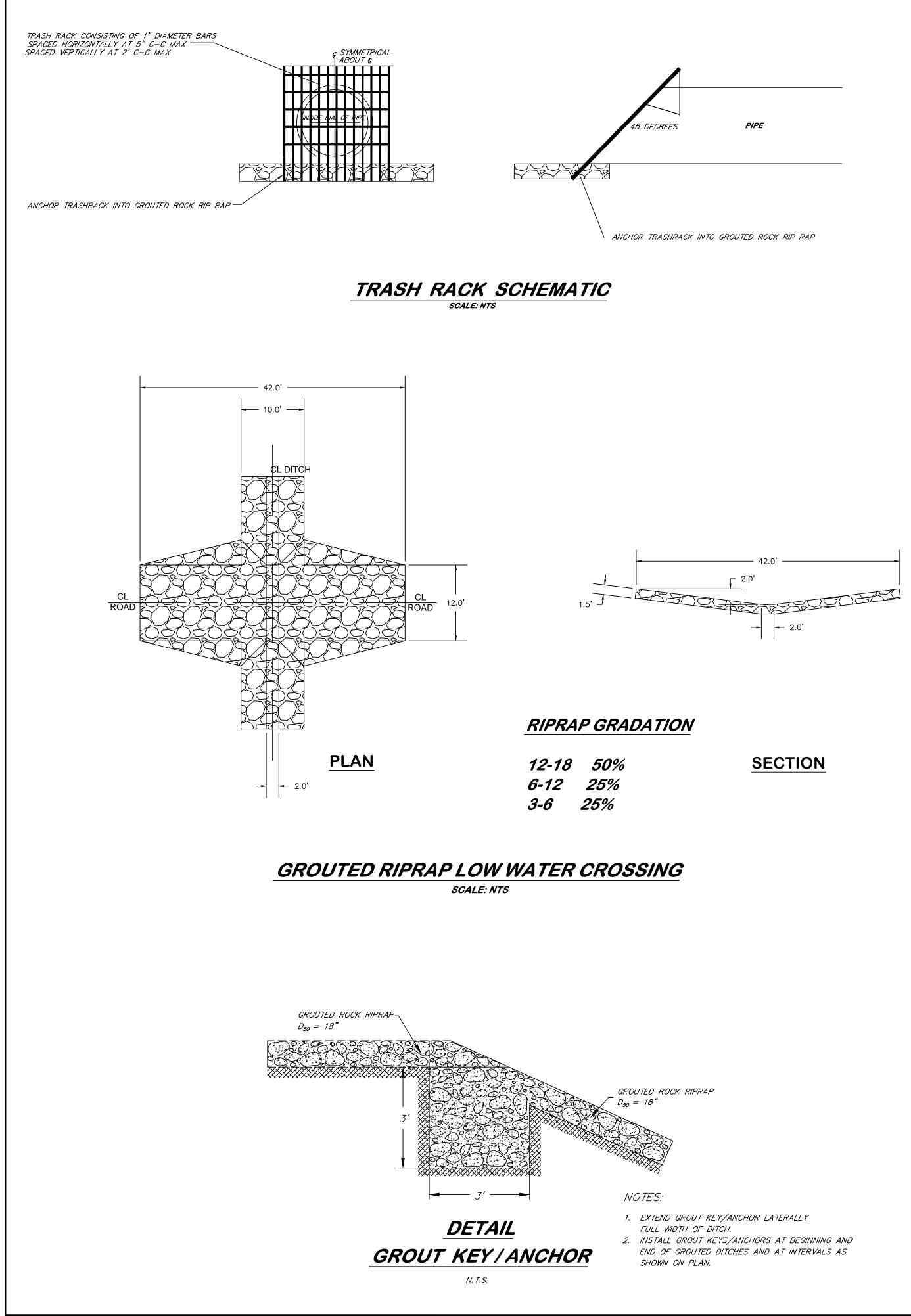
Either this manhole or the cast in place manhole on Standard M.S. 3-A may be furnished when Type A manhole is called for in the contract. Minimum height of bench wall above flow line of pipe is 25% of the diameter of the pipes.

The bearing area of the frame and cover shall be so fitted and finished as to provide a firm and even seat for the entire cover in the frame. No projections shall exist on bearing areas of wither casting, and the cover shall seat in its frame without rocking.

<u>INVERTED PLAN</u>







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CONSTRUCTION NOTES:

- APPLICATION OF FERTILIZER AND SEED.
- CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE TYPE OF RECP BEING USED.
- THE ENTIRE RECP'S WIDTH.
- NECESSARY TO PROPERLY SECURE THE RECP'S.

