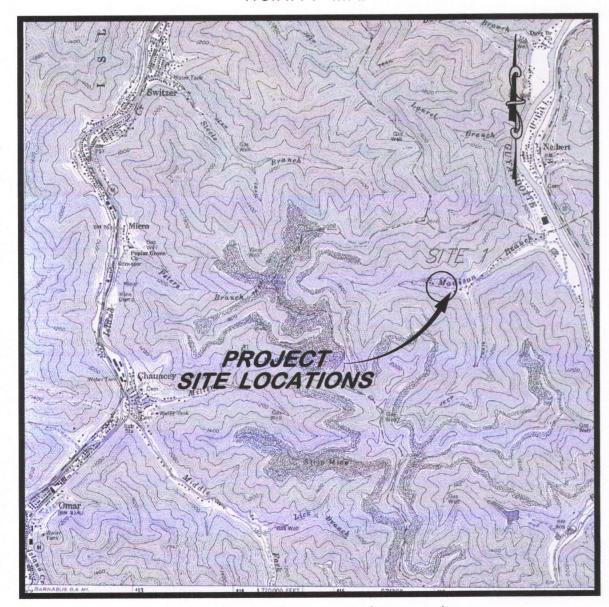


OFFICE OF ABANDONED MINE LANDS AND RECLAMATION



VICINITY MAP



USGS 7.5' QUAD (LOGAN)

SHEET NO.	DESCRIPTION		
2	EXISTING CONDITIONS		
3	RECLAMATION PLAN		
4	EROSION AND SEDIMENT CONTROL PLAN		
5	CONSTRUCTION DETAILS (1)		
6	CONSTRUCTION DETAILS (2)		
7	ROAD AND PIPE PROFILES		
8	BASELINE PROFILE AND CROSS SECTIONS		



## west virginia department of environmental protection

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

### NEAR LYBURN LOGAN COUNTY, WEST VIRGINIA

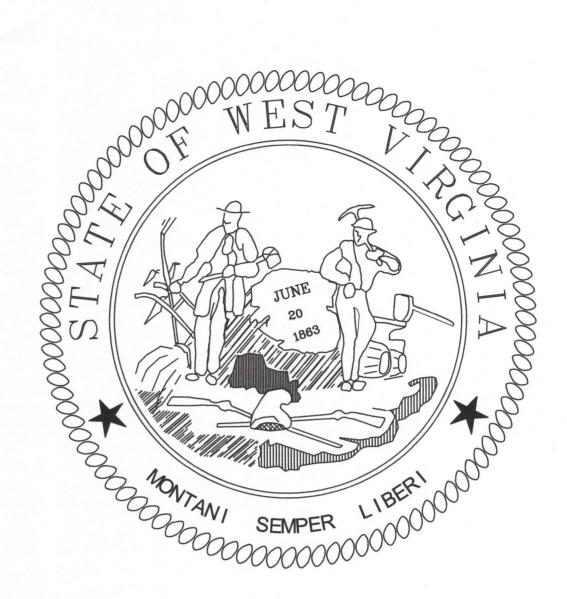


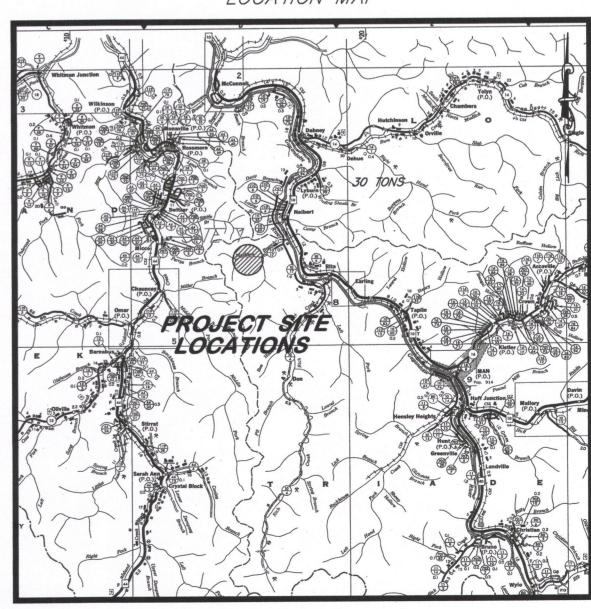
BID SCHEDULE							
ITEM							
NO.	Qty	Unit	DESCRIPTION				
1.0	1	LS	Mobilization and Demobilization (Limited to 10% of Total Bid)				
2.0	1	LS	Construction Layout (Limited to 5% of Total Bid)				
3.0	1	LS	Quality Control (Limited to 3% of Total Bid)				
4.1	1	LS	Site Preparation (Limited to 10% of Total Bid)				
4.2	50	TN	Gravel Drive Rehabilitation				
4.3	1	LS	Temporary Stream Crossing				
5.1	167	LF	Silt Fence				
5.2	25	TN	Stabilized Construction Entrance				
5.3	430	SY	Rolled Erosion Control Product				
6.0	1	LS	Revegetation				
7.1	170	LF	12" HDPE Pipe				
7.2	2	EA	Type "A" Manhole				
7.3	1	EA	Type G Drop Inlet				
7.4	2	EA	Slash Pads				
7.5	2	EA	Cleanouts				
8.0	1	LS	Unclassified Excavation				
9.1	1,300	SF	Modular Retaining Wall				
9.2	200	EA	Straw Bales				
9.3	120	LF	12-inch Diameter HDPE Perforated Pipe				
9.4	400	SY	Filter Fabric				
9.5	30	TN	No. 57 Stone Backfill				
9.6	133	SY	60 mil HDPE Geomembrane Channel Lining				

allen 2 Vood APPROVED

9/17/15 DATE

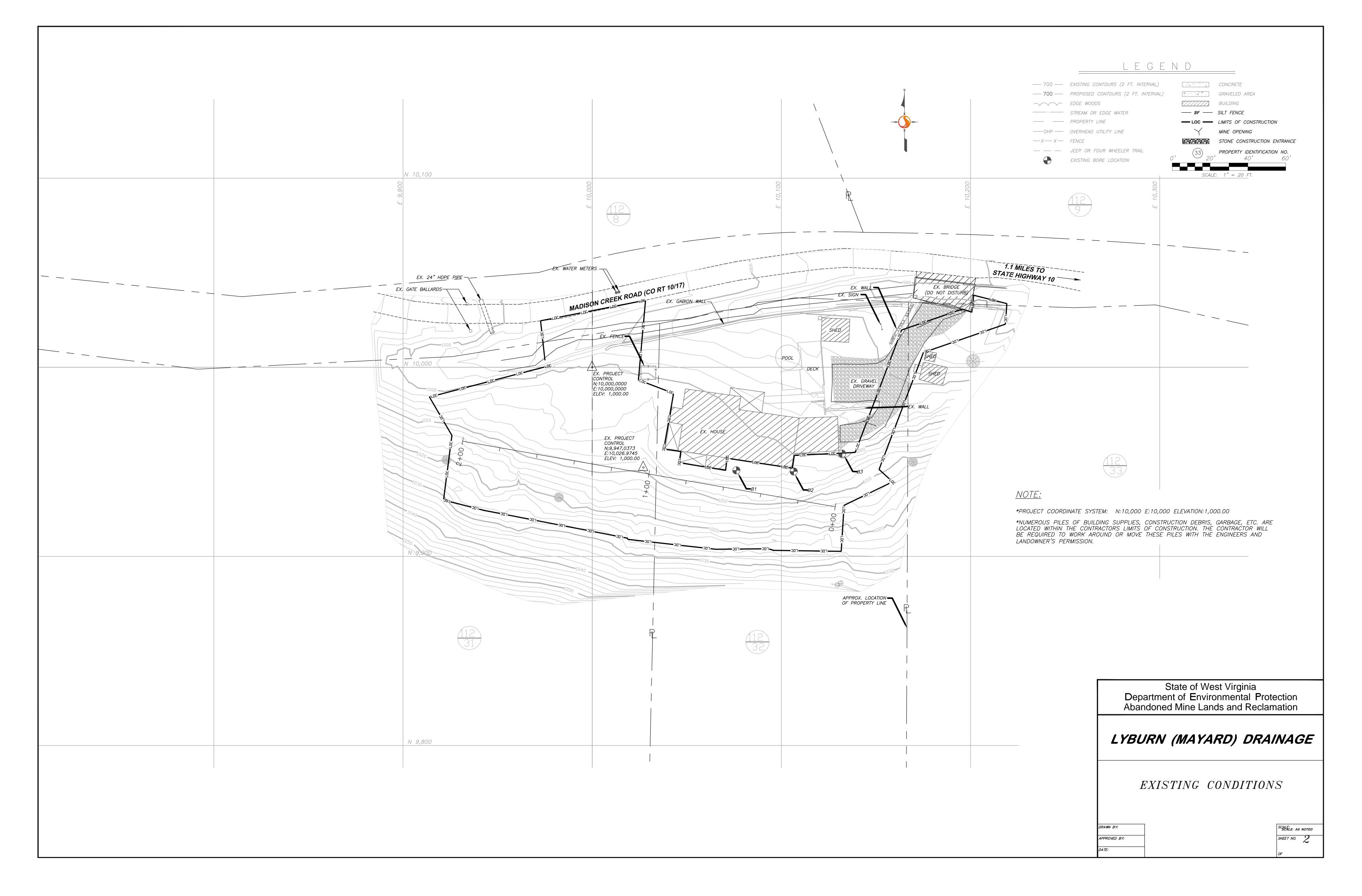
Note: Design of the modular wall sealed by others.

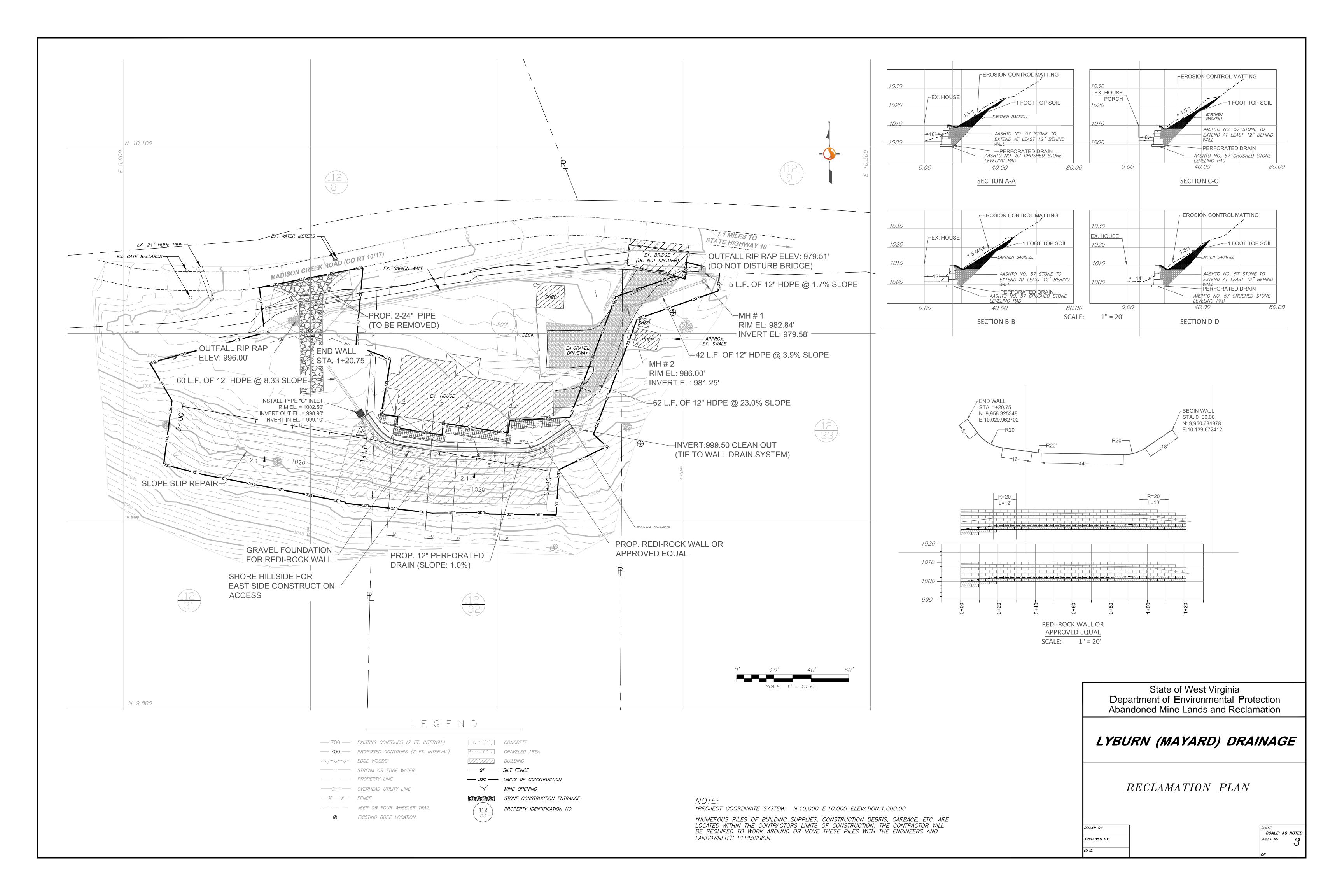


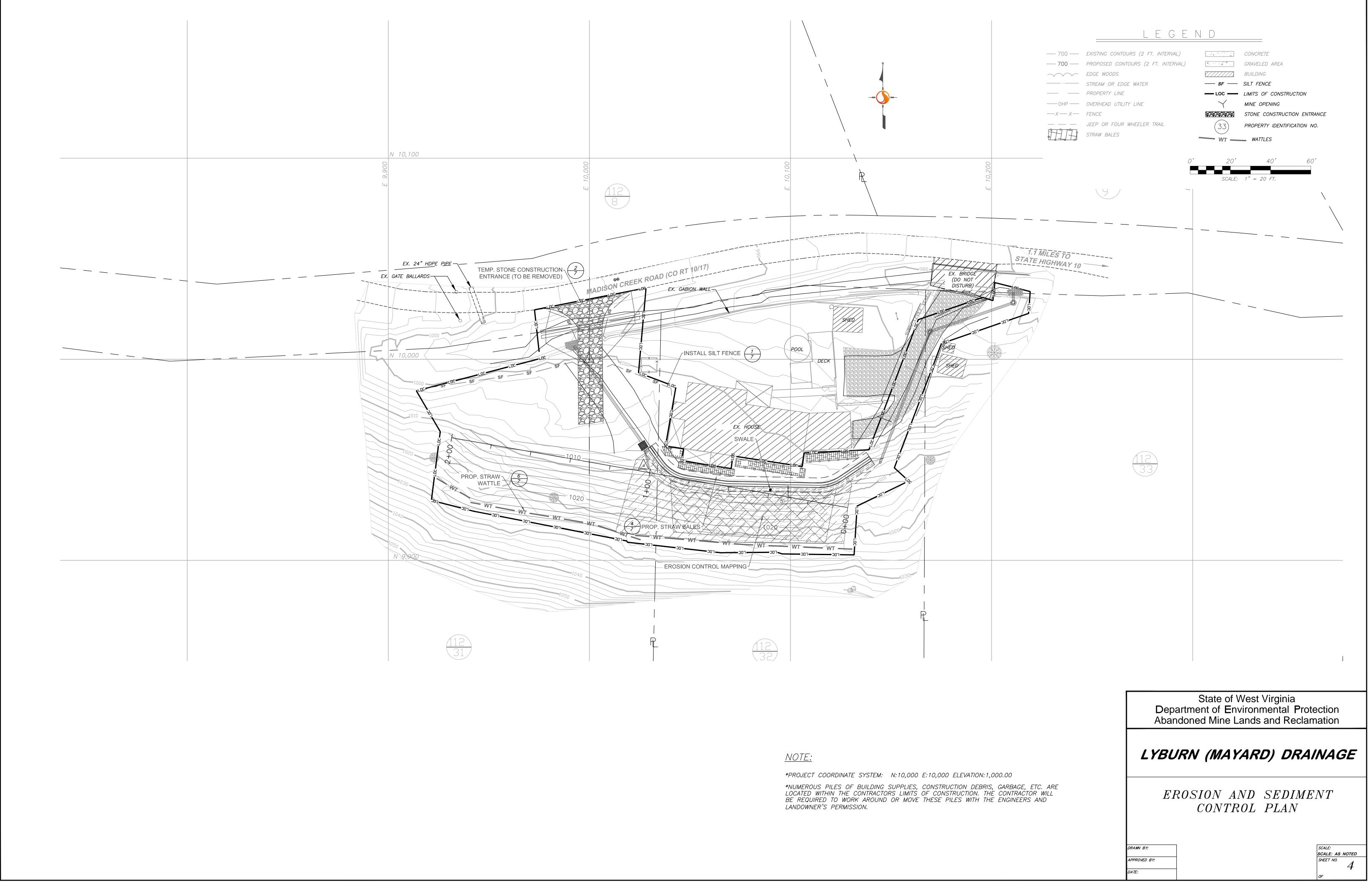


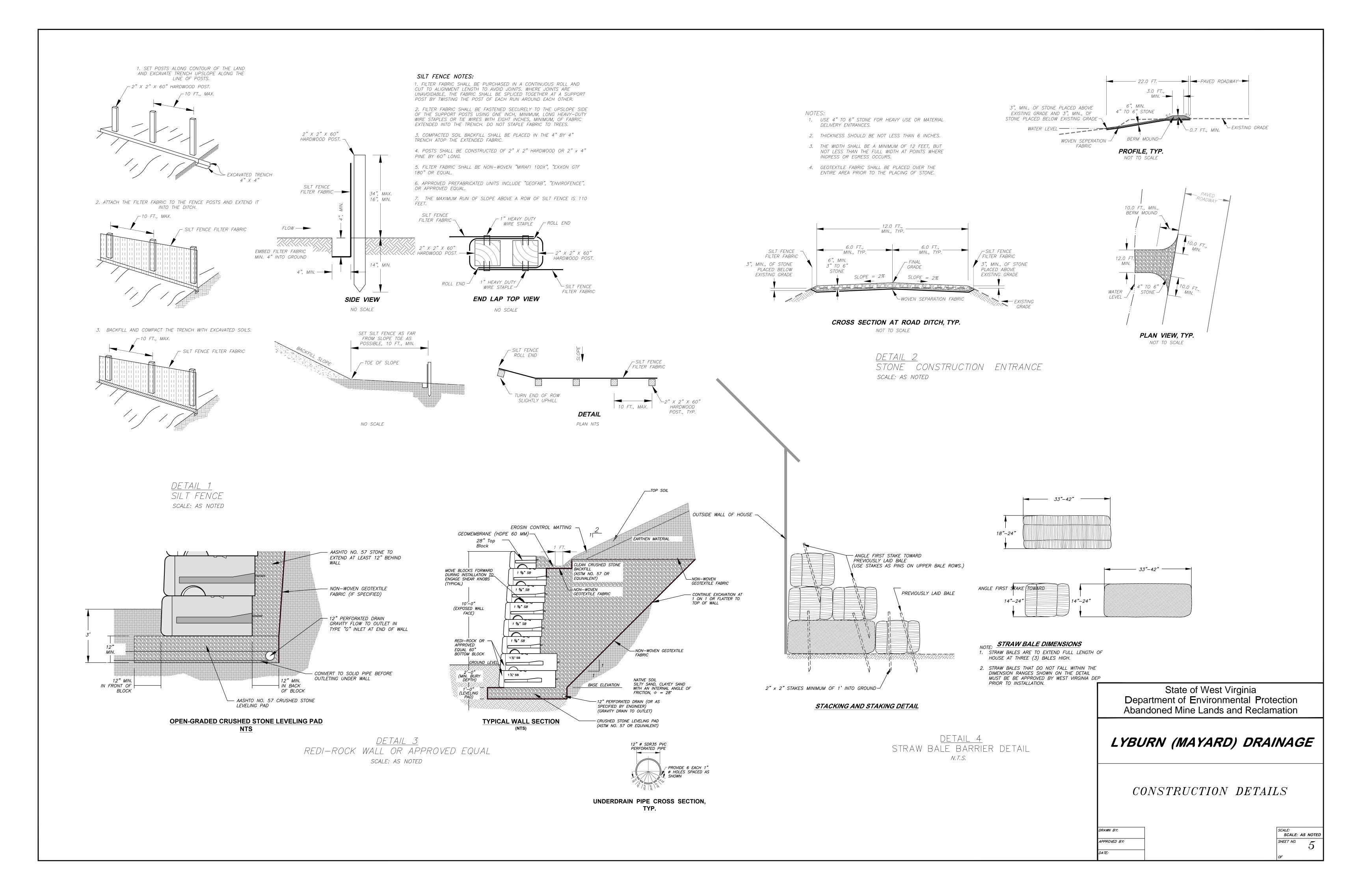
LOCATION MAP

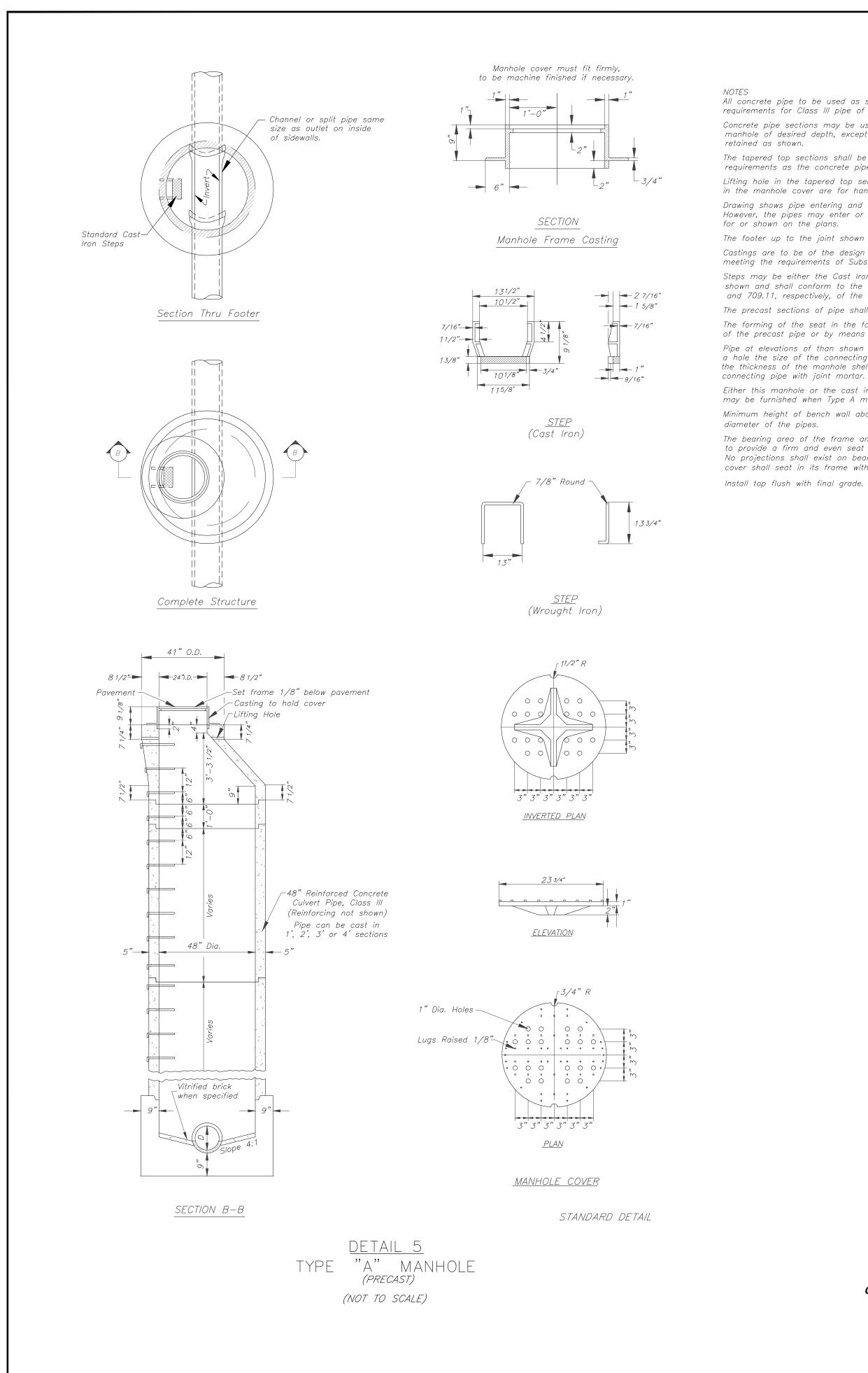
COUNTY HIGHWAY MAP , 1" = 1 MI.











### 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

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.

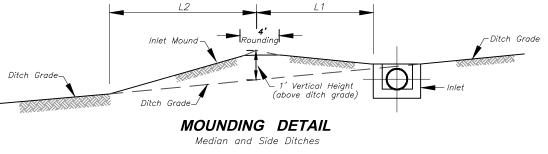
Steps may be either the Cast Iron Step or the Wrought Iron Step as shown and shall conform to the requirements of Subsections 709.10 and 709.11, respectively, of the Standard Specifications. The precast sections of pipe shall be set in joint mortar.

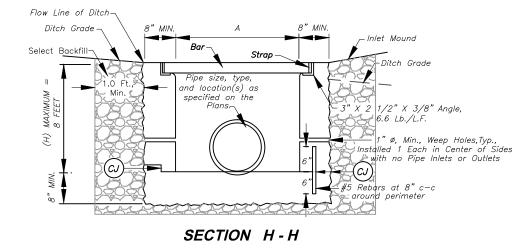
The forming of the seat in the footing may be by the use of a section of the precast pipe or by means of a jig.

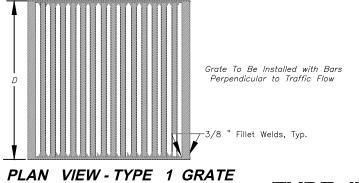
Pipe at elevations of than shown may be joined to the manhole by cutting a hole the size of the connecting pipe in the manhole, inserting the pipe the thickness of the manhole shell and closing all openings around the connecting pipe with joint mortar.

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

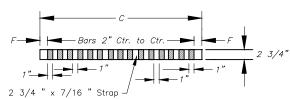
The bearing area of the frame and cover shall be so fitted and finished as to provide a firm and even seat for the entire cover in the frame. No projections shall exist on bearing areas of wither casting, and the cover shall seat in its frame without rocking.



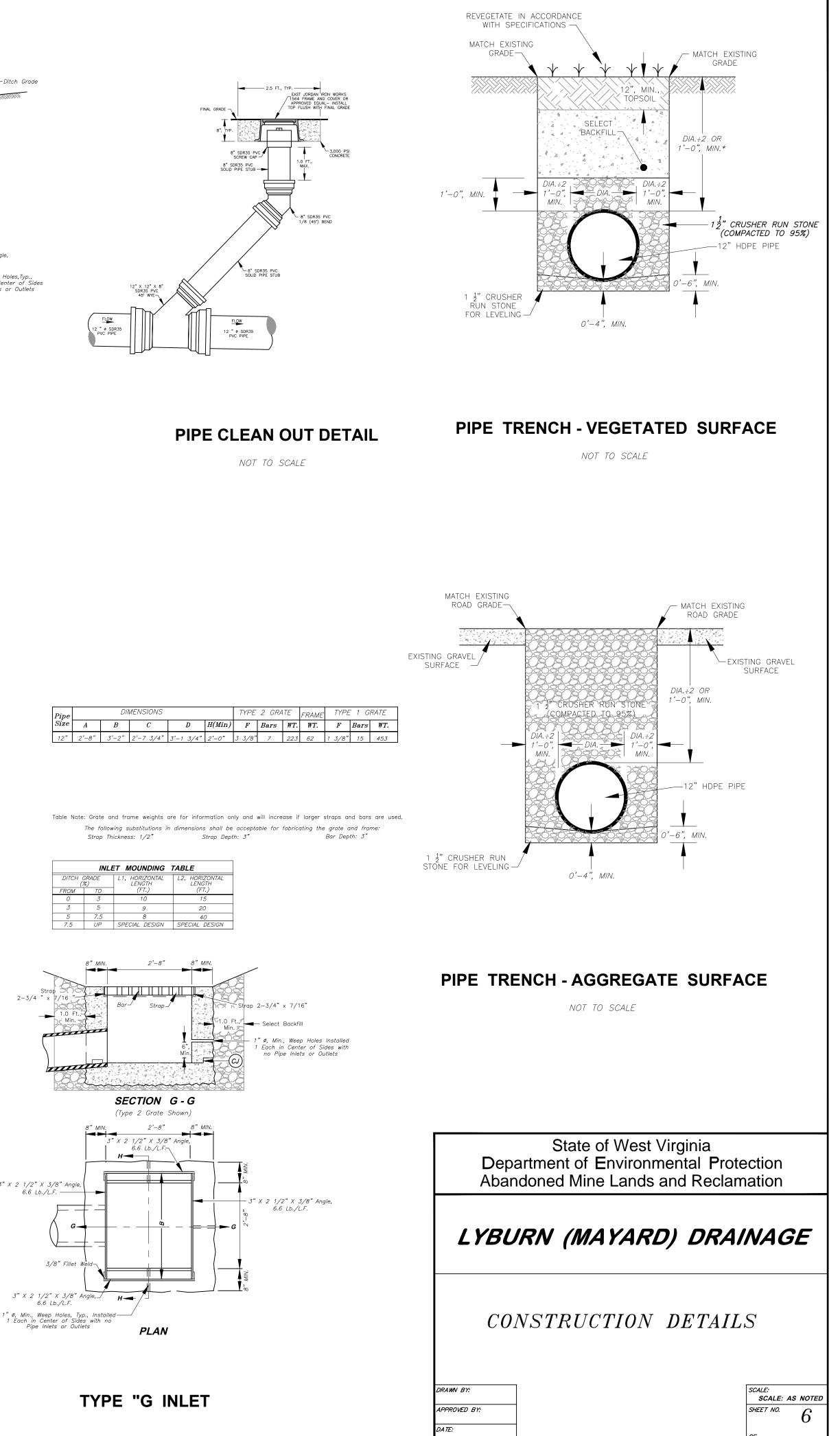


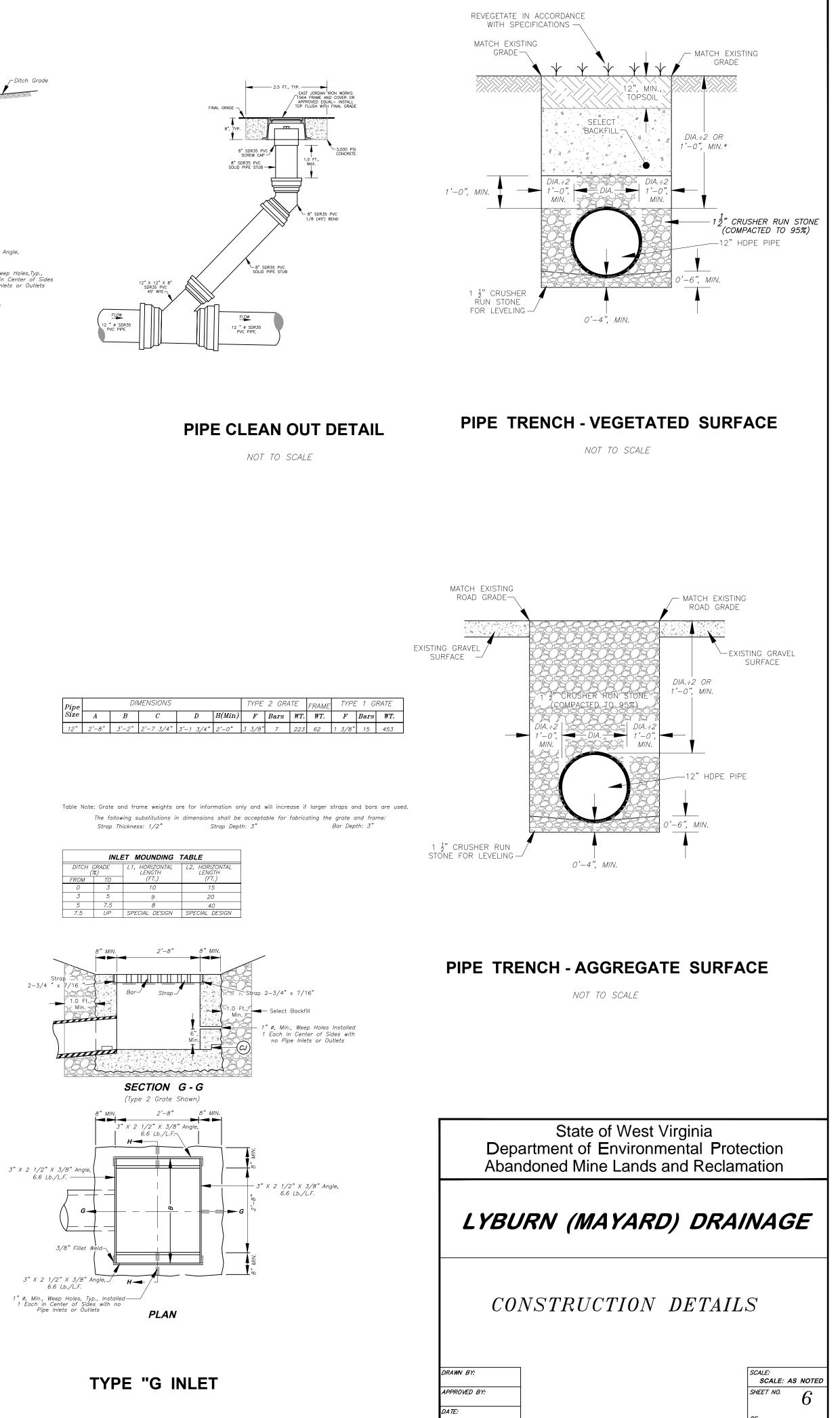


TYPE "G INLET



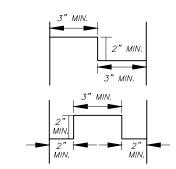
SECTION THROUGH TYPE 1 GRATE





# Grate To Be Installed with Bars Perpendicular to Traffic Flow

EXPLODED DETAIL



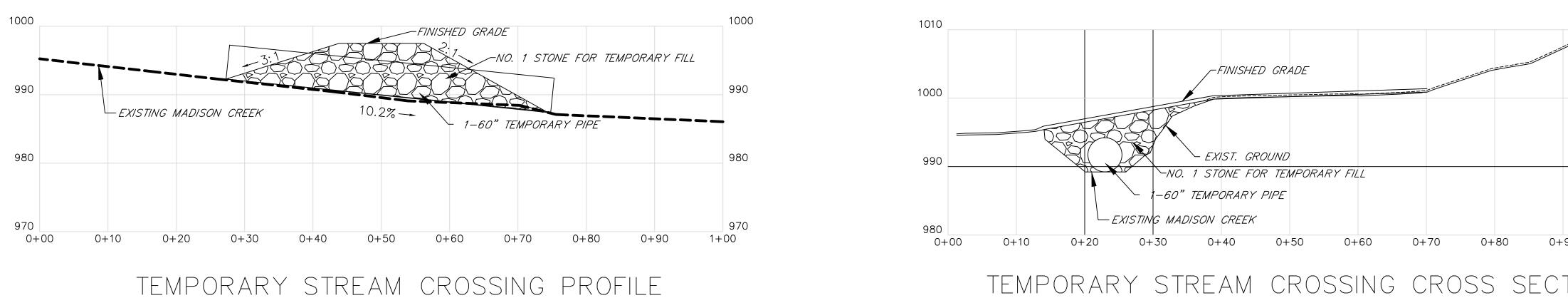
CONSTRUCTION JOINT DETAILS

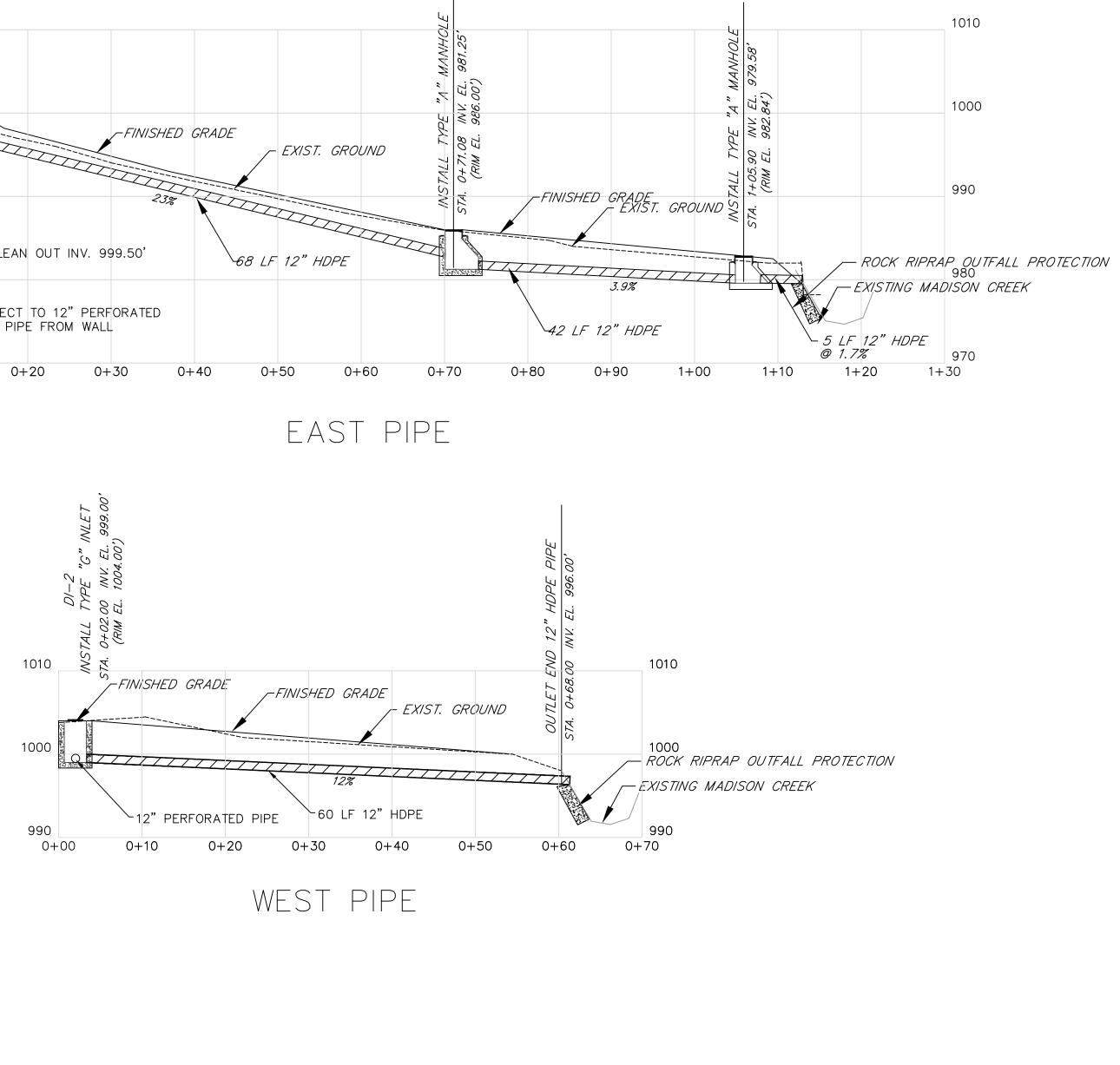
NOTES:

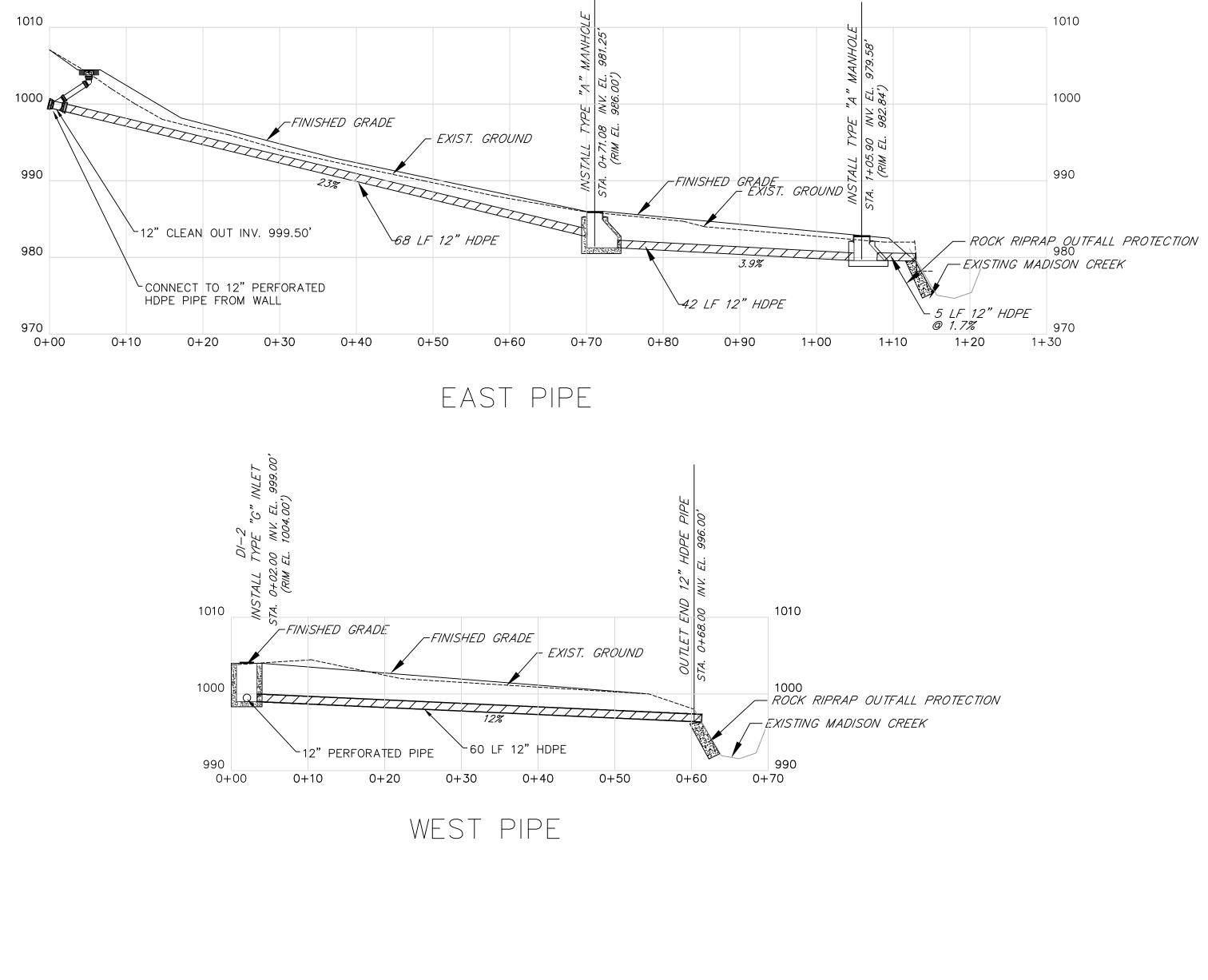
- The final installed top surface of inlet and grate shall be flush with adjacent finished surfaces such as pavement, gutters, curbs, and sidewalks. Top of grate elevation, if shown on the plans, is for information only.
- Construction may be cast—in place, precast in one or multiple sections, or any combination of cast—in—place and precast.
- Type 1 Grate shall be used at all locations unless otherwise specified on the Plans. Type 1 Urban Grates shall be used only at specially designated locations as shown on the plans.
- The Contractor, at his option, may omit use of the frame by forming a ledge in the concrete.
- Special care shall be exercised in forming the 2" wide concrete ledge to provide a smooth, even surface for supporting the grates if the shallow frame is not used. no projections shall exist on the bearing surfaces of the ledge or the grates, and the grates shall seat on the ledge without rocking.
- 6. The Mounding Detail as shown is not required when an inlet is placed in a sag.
- Optional construction joints labeled CJ" may be roughened concrete, keyed or doweled as per the typical details shown herein or as approved by the Engineer. Non shrink grout meeting the requirements of subsection 715.5 of the specifications may be used to a depth of 1/2" for leveling between precast sections. Thicker depths will be allowed as per the manufacturer's recommendations.
- 8. This inlet is to be installed in roadside or median ditches only. It is not to be placed adjacent to pavement or in the gutter pan of combination curb and gutter.
- 9. The minimum distance from the top of any pipe opening to any construction joint above the opening shall be four (4) inches.
- 10. The number and location of pipe openings shall be as shown in the plans. The contractor at no additional cost, shall be responsible for any temporary bracing required to transport precast inlet sections due to multiple openings.

















































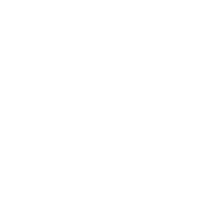






























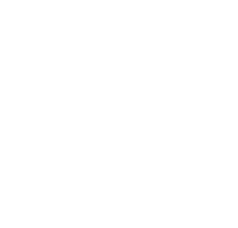
























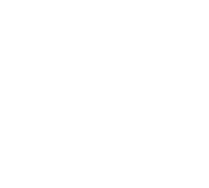




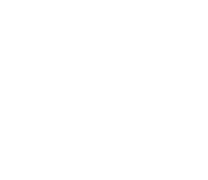




































	1010	
	1000	State of West Virginia Department of Environmental Protection Abandoned Mine Lands and Reclamation
	990	LYBURN (MAYNARD) DRAINAGE
90 1+	980 00	ROAD AND PIPE PROFILES
TION		$ \begin{array}{c}     DRAWN BY: RCD \\     APPROVED BY: AW \\     DATE: 8/31/2015 \end{array} $ $ \begin{array}{c}     SCALE: & 1'' = 10' \\     SHEET NO. & & & \\     OF 7 \\   \end{array} $

