

END WALL DETAILS FOR CONCRETE PIPE

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

78

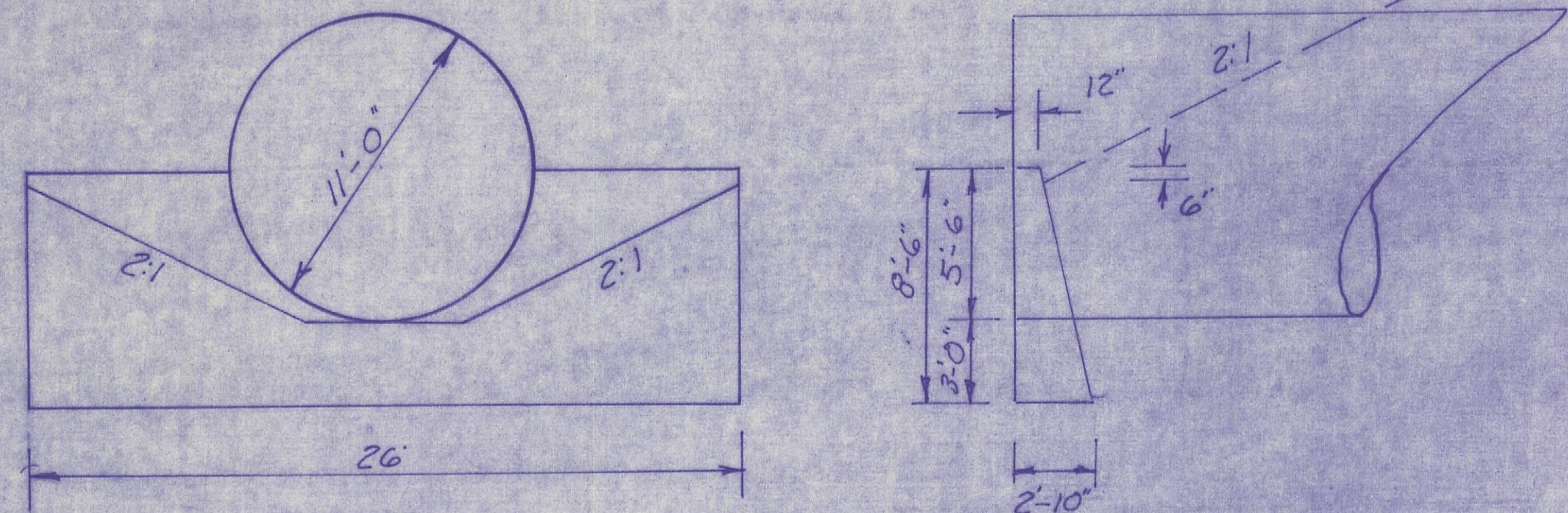
HOC-93- (16.35) (17.63)

STRUCTURE No HOC-93-1661
 STA. 877+40
 REF No 1-D Sheet 15

ESTIMATED QUANTITIES

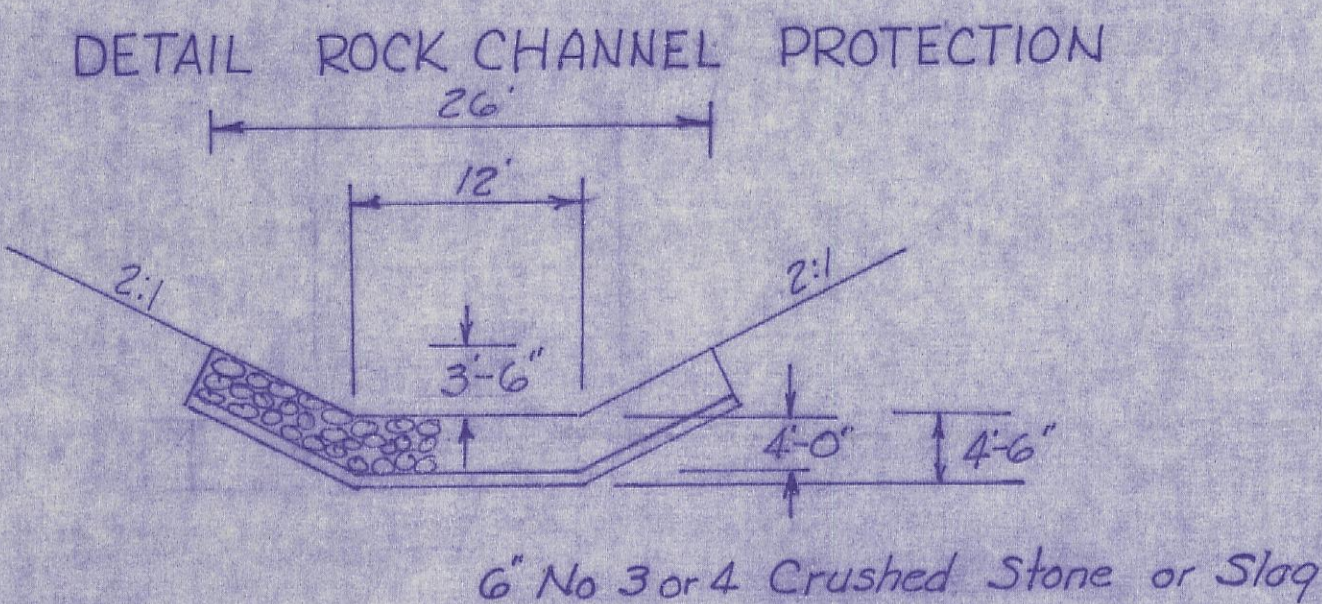
* 603 132" Conduit Type A	706.14	or	
14'-10" x 9'-1"	707.03	(12 Gauge - 10 Gauge) As Per Plan	210 Lin. Ft.
* 602 Concrete Masonry			25.74 Cu. Yd.
* 601 Rock Channel Protection Type A			152 Cu. Yd.
* 601 Riprap 6" Reinforced Concrete			15 Sq. Yd.
* 660 Sodding			2 Sq. Yd.
** 203 Excavation			61 Cu. Yd.
** 659 Seeding			30 Sq. Yd.

* Quantities to Plan Sheet 15
 ** Quantities to Cross Section Sheet 30



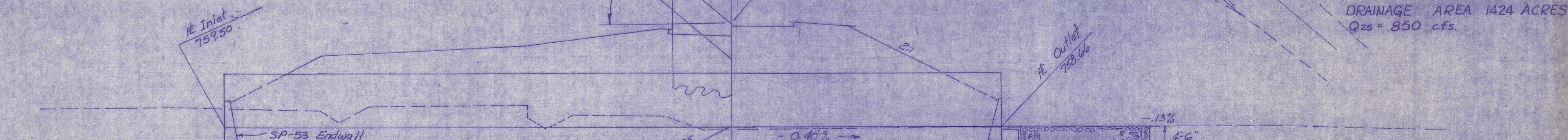
Note: For Details of Pipe Arch Endwall See Std. Drawing SP-53

For Details of Inlet Channel See Cross Sections for County Road 76 Sheet 60 & 61



6" No 3 or 4 Crushed Stone or Slag

40° L.F. Skew



NOTE:
 If the Contractor elects to use the 14'-10" x 9'-1" steel pipe alternate he shall excavate unsuitable material having a bottom width of 20' and 1:1 side slopes. The excavation shall be centered on the culvert, have a length of 214 feet and a depth of 4 feet below the flow line of the culvert and be replaced with granular material. The cost of the above shall be included with the price bid for the pipe.

Calculated	Checked
By: F.B.	By: DS
Date: 11/13/72	Date: 1-4-73

BRUNING 44560 10943