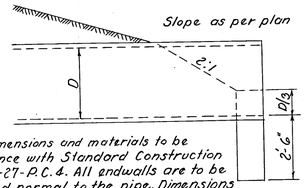
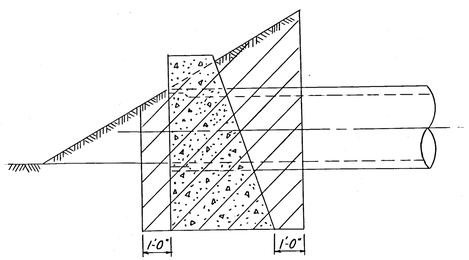


All other dimensions and materials to be in accordance with Standard Construction Drawing S-27-P.C.4. All endwalls are to be constructed normal to the pipe. Dimensions shown on plans to end of pipe are to outside face of endwalls.

S-27-P.C.4 ENDWALL

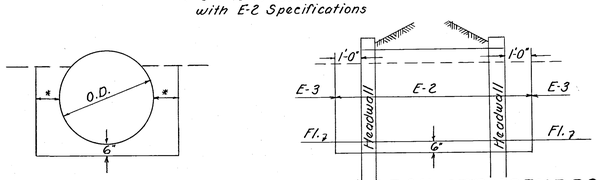
PIPE SIZES 12" to 54" incl.



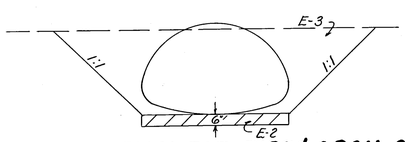
Note: Excavation has been Computed for all Headwalls as shown above with deduction made for pipe.

HEADWALL EXCAVATION

* 6" or 12" in accordance with E-2 Specifications



STRUCTURE EXCAVATION FOR PIPE & ARCH STRUCTURES WITH LESS THAN 60" DIAMETER OR RISE



STRUCTURE EXCAVATION FOR PIPE & ARCH STRUCTURES WITH 60" DIA. OR RISE OR MORE

Note: All excavation to be paid for under this item except for the F.E. shown above. The backfilling of pipes & arches with CR-6 or other granular, including all bedding materials, shall be included in the Unit this Price for the Channel Excavation, as per plan.

GENERAL NOTES
— CONTINUED —

TRAFFIC:

Two-way traffic on U.S. 22 shall be maintained at all times. Two-way traffic on County Road 55 shall be maintained at all times except that one way traffic will be permitted from Sta. 11+30 to Sta. 15+00 for minimum periods of time consistent with the requirements of the specifications for placement of pavement courses. Two-way traffic shall be maintained by use of either the existing pavement, the proposed pavement, or temporary roadways surfaced with T-10 aggregate and stabilized with M-10 calcium chloride.

Payment for construction, maintenance and subsequent removal, wherever required, of temporary roadways, except for furnishing and placing of Items M-10 and T-10, shall be included in the lump sum price bid for "Maintaining Traffic."

Periods of use of single lane traffic on U.S.R. 22 directional pavements shall be held to an absolute minimum, as directed by the Engineer.

Access to the General Electric Company plant shall be maintained at all times, either to the existing haul road to the right at approximate Station 14 or to the proposed service road to the right at Station 5+66, to be constructed as shown on these plans.

EARTHWORK AND SEEDING SUMMARY

CARRIED FROM	EXCAVATION CU. YDS.		EMBANKMENT CU. YDS.		EMBANKMENT+20% CU. YDS.		SEEDING SQ. YDS.	
SHEET NO.	PARTICIPATION BY		PARTICIPATION BY		PARTICIPATION BY		PARTICIPATION BY	
	STATE & FED.	CO. & FED.	STATE & FED.	CO. & FED.	STATE & FED.	CO. & FED.	STATE & FED.	CO. & FED.
12	347		2152		2582		2861	
13			578	6587	694	7904	224	3664
14		708		3220		3864		2588
* Pavt. Removal Sheet 2	189							
TOTALS	536	708	2730	9807	3276	11,768	3085	6252

* Per General Note on Sheet 4

DRAINAGE SUMMARY

	Sheet No.	S-27	S-28		E-2	E-3	S-1	I-10		I-2				I-2	I-5		I-9	S-24	E-12
		48" PCC N-6.4(c)	Corr. Metal Arch N-6.4(g) 9'-6"x4'-5" 10-8 GAGE 15'-0"x9'-0" 7-5 GAGE		Excavation for Structures	Channel Excavation	Class "E" CONCRETE STRUCTURES	Grouted Rip-rap	Dumped Rock CHANNEL PROTECTION	Class "B" S.S.U.D.	Class "B" S.S.	M6.4(c) S.S.	Outlet Pipe M6.4(c)	30° bends PIPE SPECIALS		Stone Underdrains	Removal of Structures	Pipes Removed 15" & Under
										12"	12"	15"	12"	12"	15"			
		L.F.	L.F.	L.F.	C.Y.	C.Y.	C.Y.	S.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	L.F.	Lump	L.F.
	11		58		39.6	1225	11	281	217									
	10	70			21.9		1.7											
*	10			106	93.0	495	23.8		92.6									
*	7							2		32	36		20	1		201		86
	8				1.4		0.3		6.6			52			2	479	LUMP	
	Total	70	58		63	1225	13.0	281	224			52			2	479	Lump	
*	Total			106	93	495	23.8	2	93	32	36		20	1		201		86

* Participation by State & Federal

AGRICULTURAL LIMING MATERIAL

		Participation By State And Federal		Participation By County And Federal	
L-9	SEEDING	= 3,085	S.Y.	6,252	S.Y.
	Area(S.Y.) $\frac{100}{1000} \times \frac{9}{2000}$ TOTAL AGRIC. LIMING MAT.	= 1.39	Tons.	2.81	Tons.

EARTHWORK CALCULATIONS

E-1	Excavation	= 536	C.Y.	708	C.Y.
	EMBANKMENT	= 2730	C.Y.	9807	C.Y.
	EMBANKMENT + 20 %	= 3276	C.Y.	11,768	C.Y.
E-4	Borrow [(EMBANKMENT+20%)-(EXCAVATION)]	2,740	C.Y.	11,060	C.Y.

FERTILIZER

L-9	Seeding	= 3,085	S.Y.	6,252	S.Y.
	Area(S.Y.) $\times \frac{20}{1000} \times \frac{9}{2000}$ = Total Fertilizer	= 0.28	Tons	0.56	Tons

WATER

Embankment	(a+ 5 Gals. Yd.3)	= 2730	C.Y.	9807	C.Y.
T-22	(a+ 5 Gals. Yd.3) Subbase	= 203	C.Y.	337	C.Y.
B-19	(a+ 15 Gals. Yd.3)	= 263	C.Y.	520	C.Y.
	Volume(C.Y.) $\times \frac{5M\text{-}Gal.}{1000}$ = Total Water	18.61	M-Gal.	58.52	M-Gal.

SECD DIV.5 FEB 15 1961