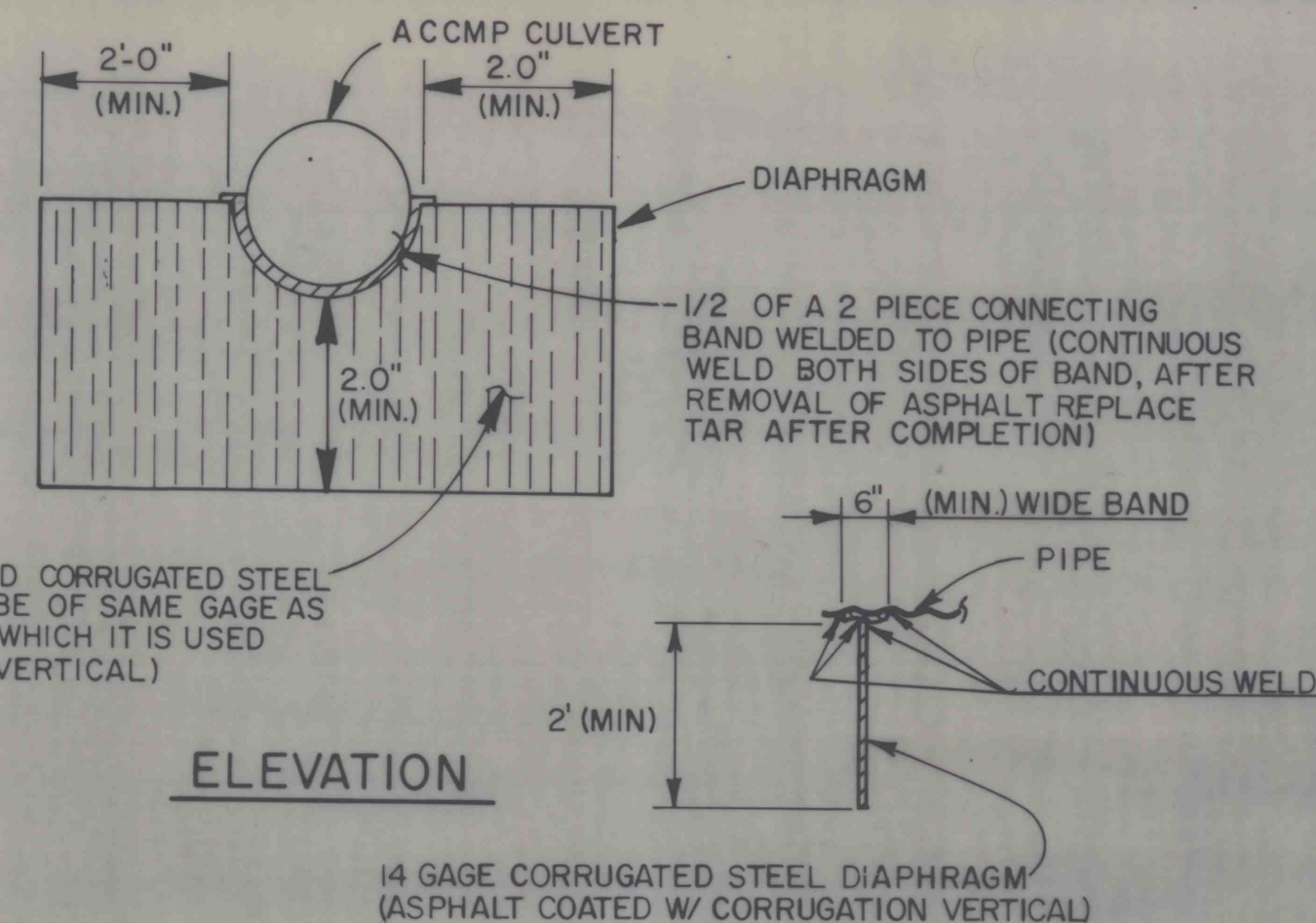


SECTION A-A

SCALE: 1"=4'

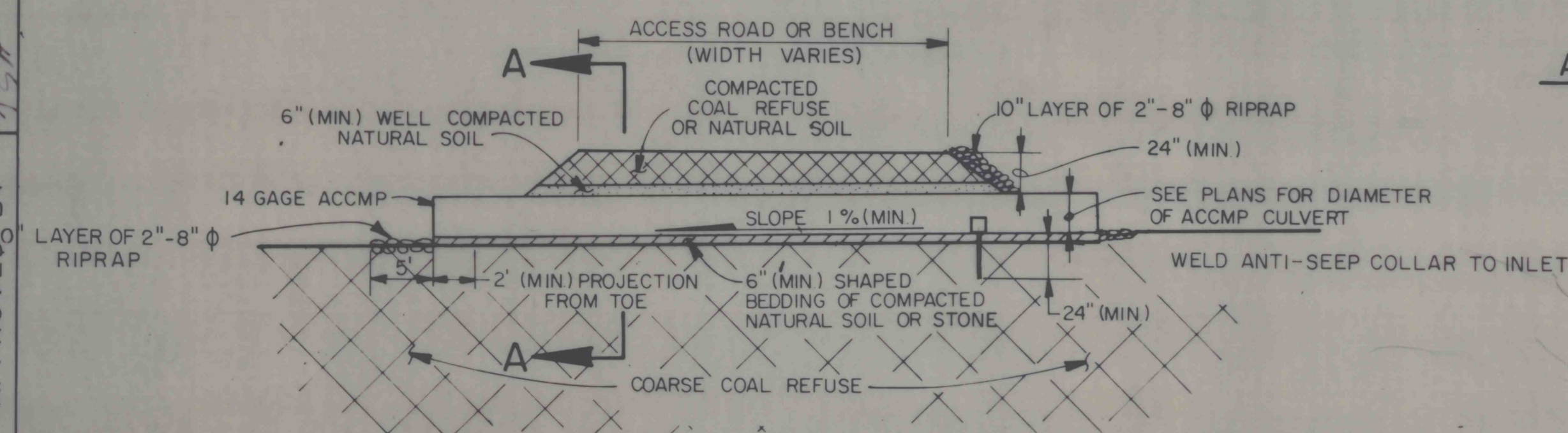


ELEVATION

SECTION

ANTI-SEEP COLLAR

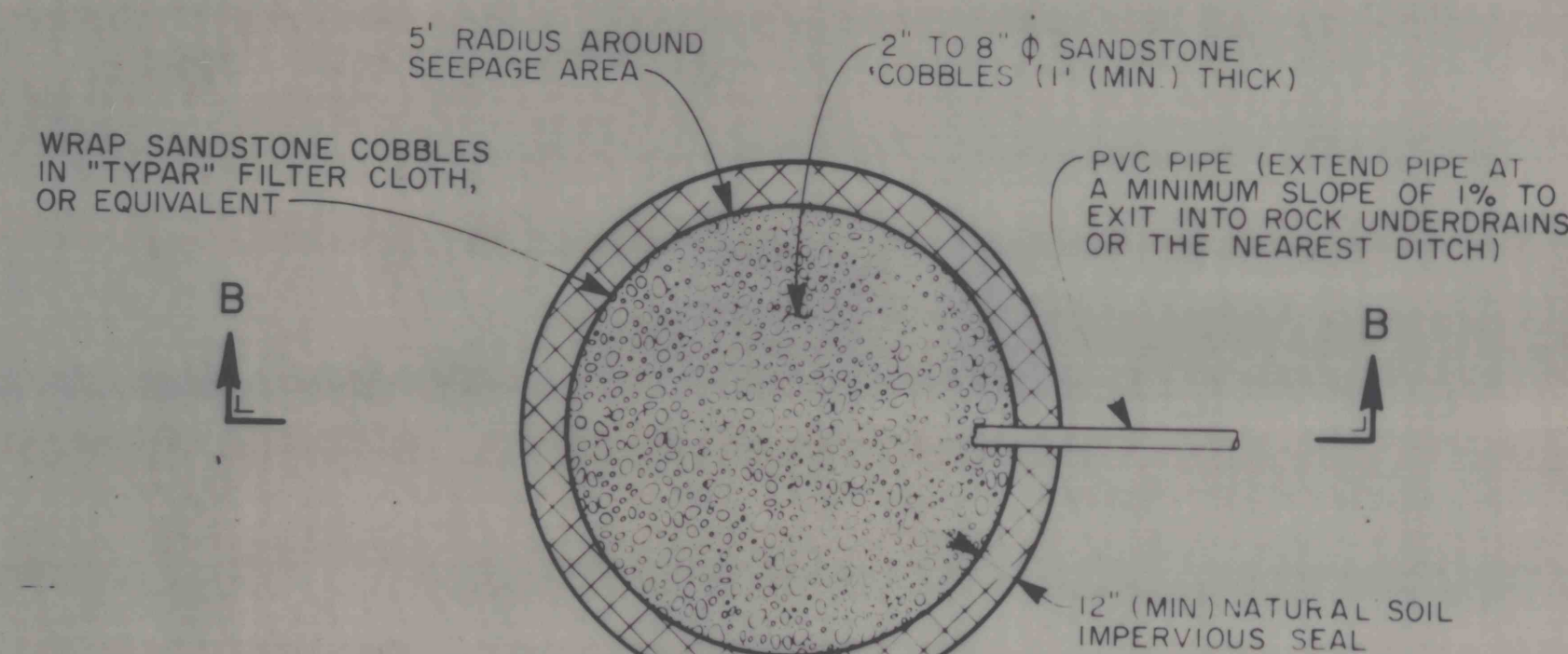
SCALE: 1"=2'



DETAIL 10

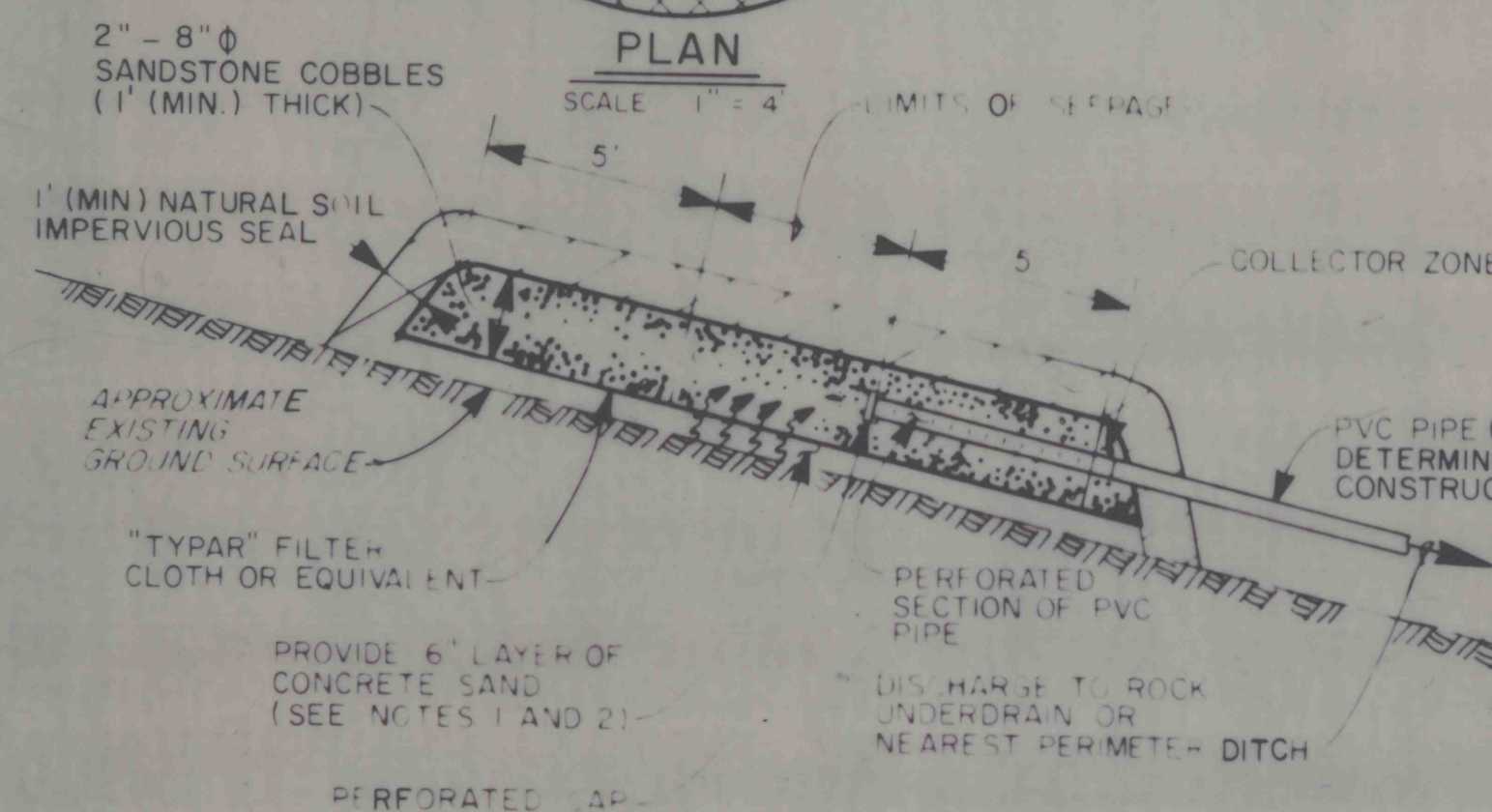
TYPICAL CULVERT INSTALLATION

SCALE: 1"=10'



PLAN

SCALE: 1"=4'

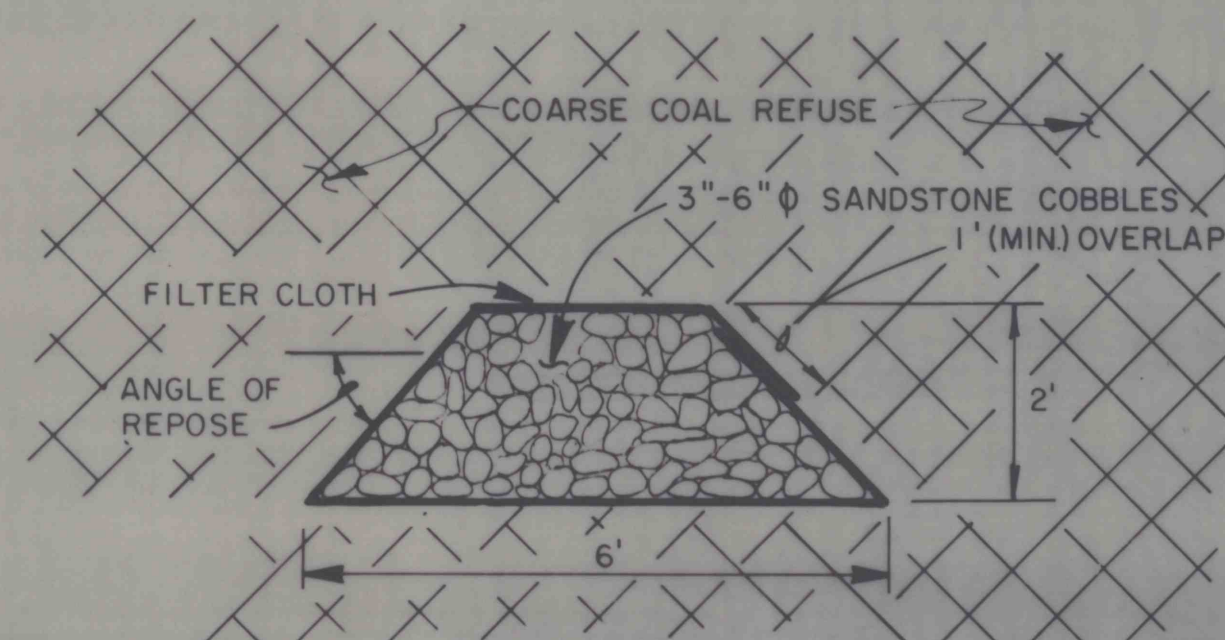


SECTION B-B

DETAIL 11

SPRING COLLECTOR ZONE

SCALE: 1"=4'



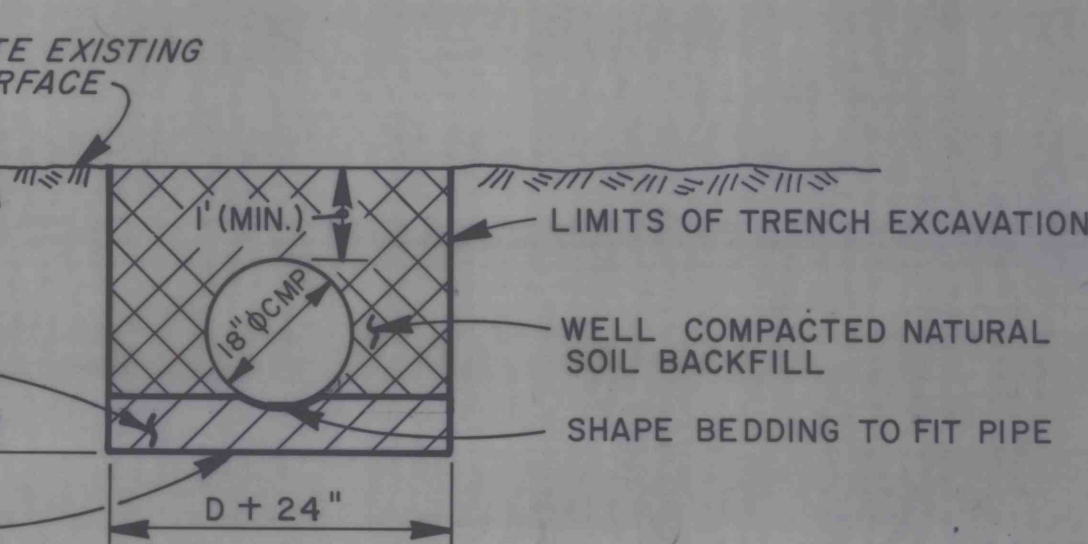
DETAIL 12

SUBSURFACE DRAINS

SCALE: 1"=2'

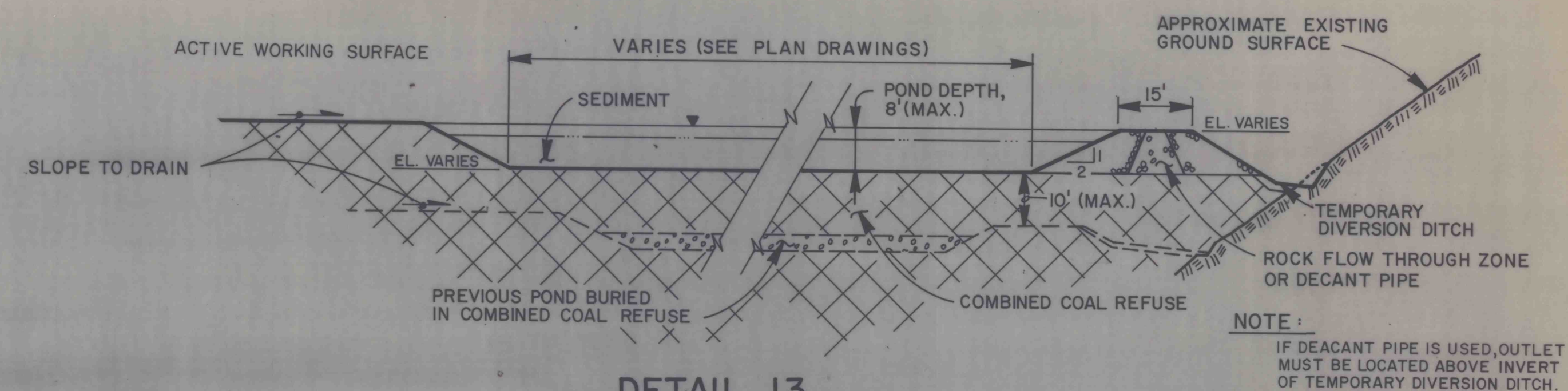
- NOTES:
1. THIS DETAIL APPLIES FOR ROCK UNDERDRAIN AND INTERNAL DRAINS.
 2. THE DRAIN CROSS-SECTION SHOWN HERE MAY BE MODIFIED TO SUIT FIELD CONDITIONS. THE MINIMUM CROSS-SECTIONAL AREA REQUIRED IS 8 SQUARE FEET.
 3. UPON COMPLETION OF ROCK UNDERDRAIN INSTALLATION, THE UPSTREAM END OF THE DRAIN WHICH DAYLIGHTS IN THE IMPOUNDMENT SHOULD BE COVERED WITH A MINIMUM OF 4 FEET OF COARSE REFUSE TO MINIMIZE DRAIN CONTAMINATION DURING STORM EVENTS.

TYPE	ROCK UNDERDRAIN	
	HEIGHT	WIDTH
MAIN	6	2
INTERNAL	3	3
COLLECTOR	2	2



DETAIL 14

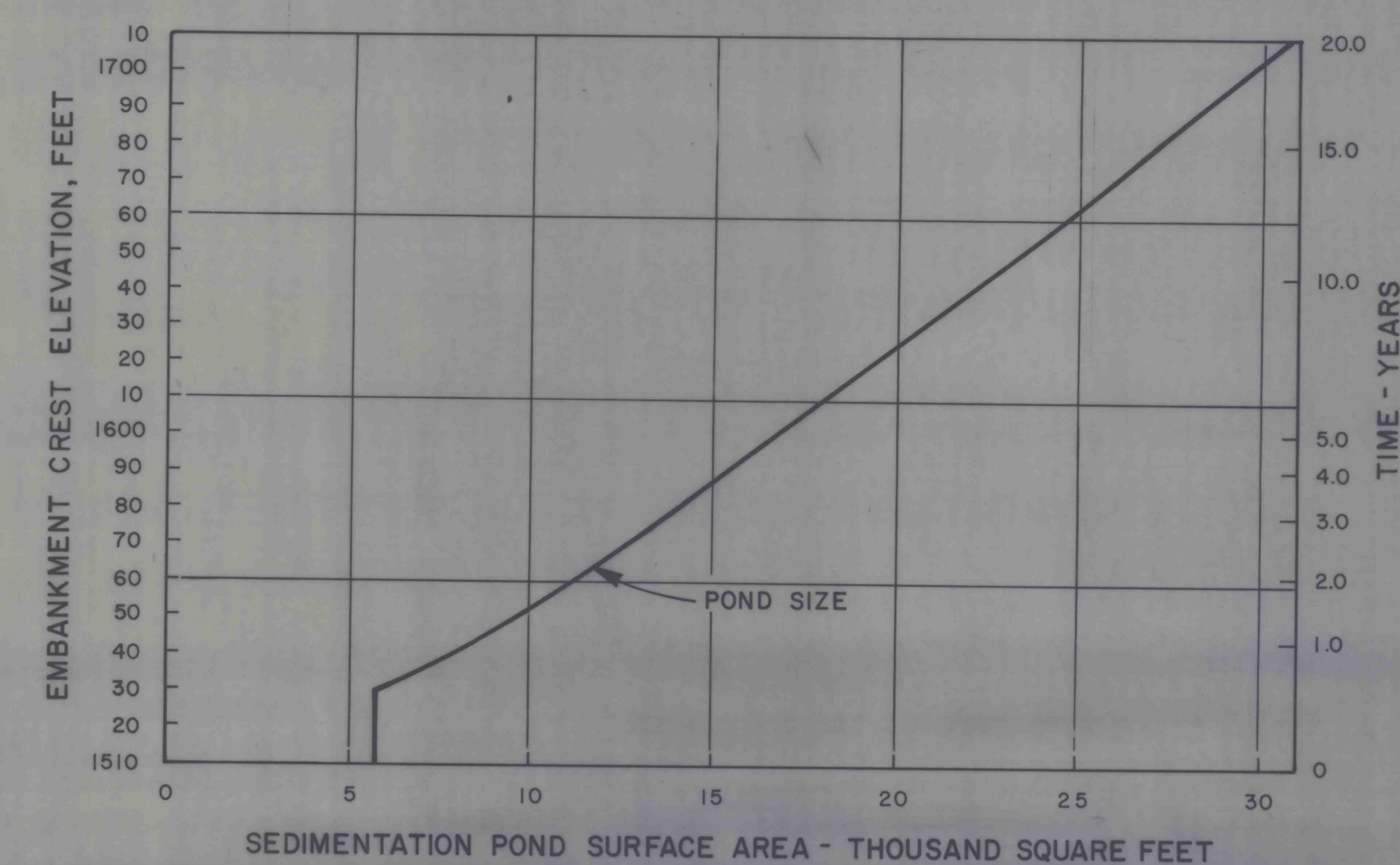
EXTENSION OF EXISTING DIVERSION PIPE



DETAIL 13

TYPICAL WORKING SURFACE SEDIMENTATION POND

SCALE: 1"=20'



WORKING SURFACE SEDIMENTATION POND REQUIREMENTS

DRAWING NO. B77-801-E9
SHEET NO. 8 of 12
FIGURE NO. 12

DETAILS
SHEET 2 OF 2
COAL REFUSE DISPOSAL FACILITY
MINE NO. 81
BETHLEHEM MINES CORPORATION
DRENNEN, WEST VIRGINIA
PREPARED FOR

BETHLEHEM MINES CORPORATION
NICHOLAS DIVISION
CHARLESTON, WEST VIRGINIA

D'APPOLONIA