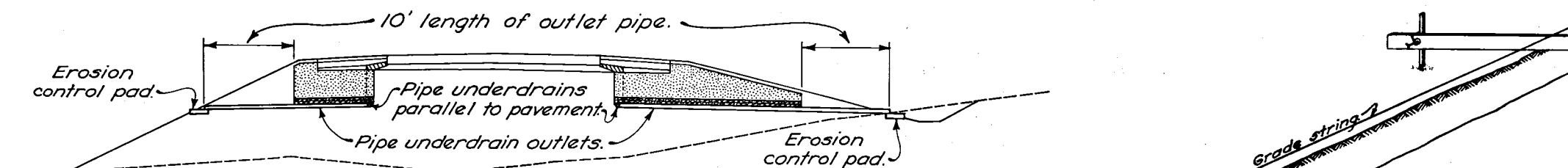
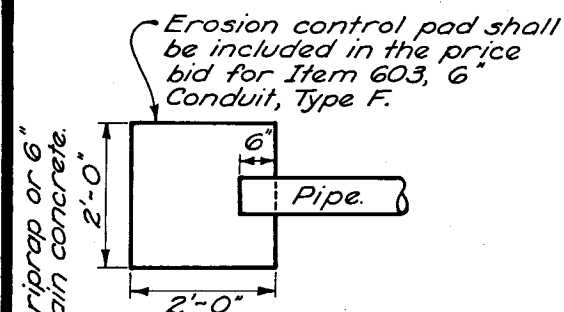


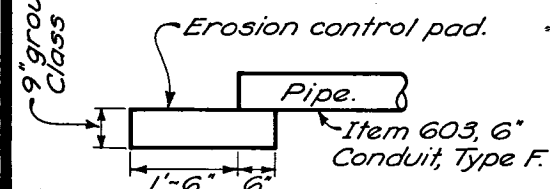
CONSTRUCTION METHODS



UNDERDRAIN OUTLET SECTION

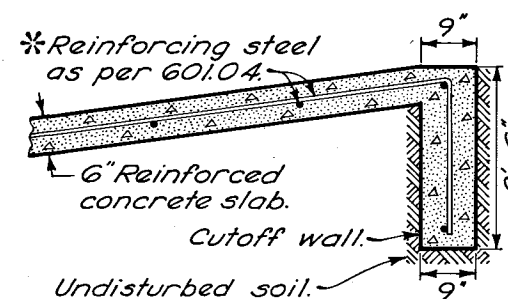


PLAN

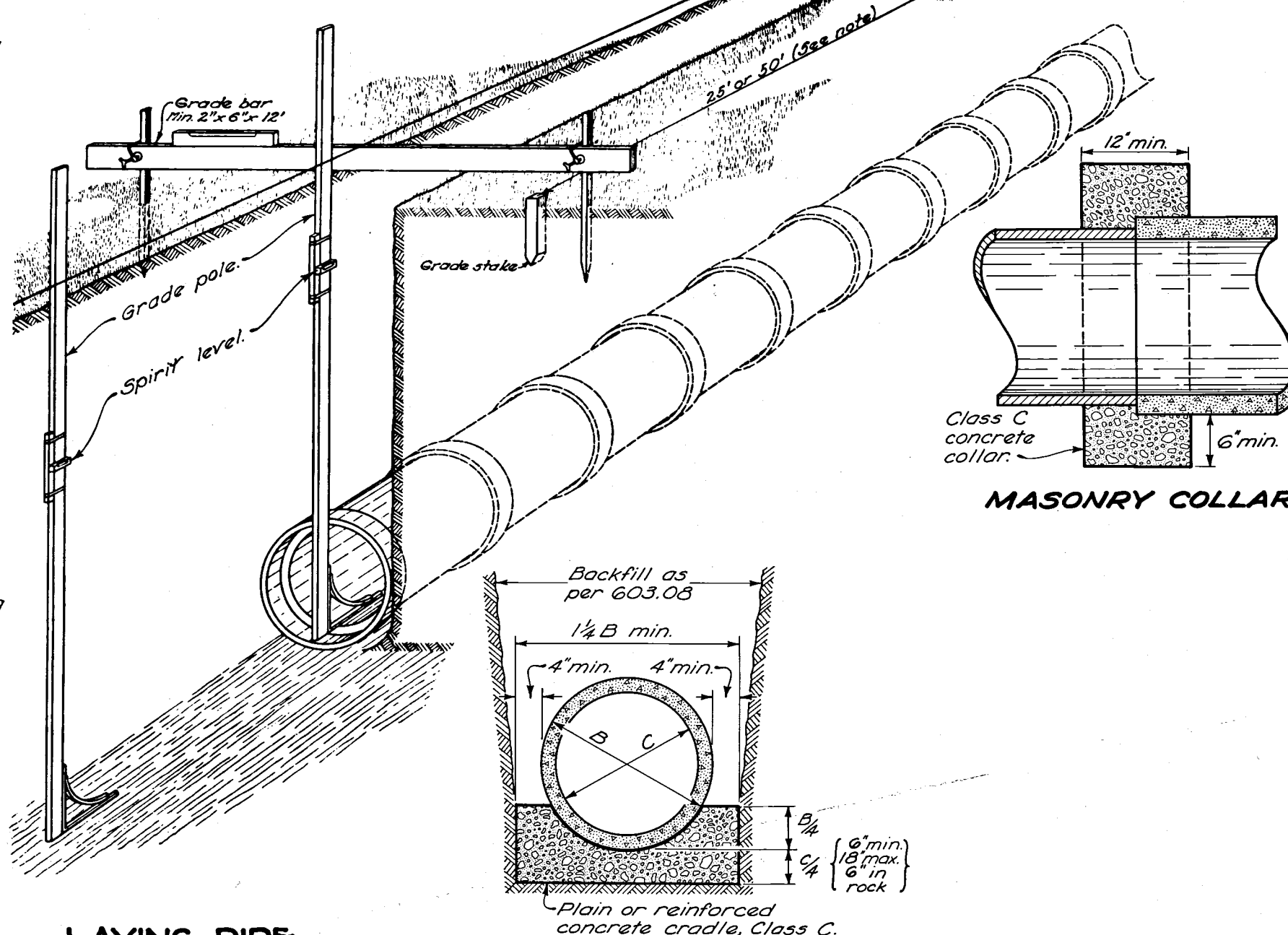


**PROFILE
PIPE UNDERDRAIN
OUTLET**

*If wire fabric is used in the slab, #4 bars @ 24" centers, overlapping the fabric 12", may be used in the cutoff wall.

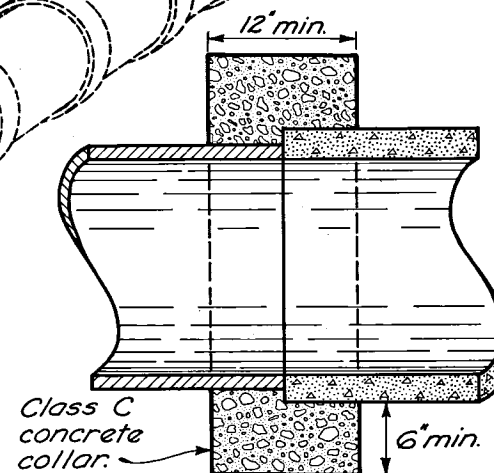


RIPRAP CUTOFF WALL
Cutoff wall shall be included in the price bid for Item 601 Riprap-6" Reinforced Concrete Slab.



LAYING PIPE

**CONCRETE CRADLE
CLASS A BEDDING**



MASONRY COLLAR

NOTES

GRADE STAKES shall be set at the following intervals:
For grades less than 0.70% ~ 25 ft.
For grades of 0.70% and over ~ 50 ft.

GRADE POLE shall be a straight pole dressed with corners rounded, size depending on length but approximately 1" x 2". The pole shall be equipped with a metal bracket on the bottom with a projecting length of 12". Notches shall be cut on the pole for the depth of the flowline below the grade string and for the depth of trench. A spirit level shall be used on the pole to determine when the pole is vertical.

ALTERNATE METHODS: The Engineer may approve other methods of determining alignment and gradient of pipe lines if the Contractor can demonstrate that the same degree of accuracy can be obtained as can be obtained by use of the method shown on this drawing.

MASONRY COLLARS: Where plans require that a pipe extension be joined to the end of an existing pipe with a butt joint, a collar shall be provided and the cost shall be included in the price bid for new conduit.

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF HIGHWAYS

**DRAINS
AND
SEWERS**

STANDARD
CONSTRUCTION
DRAWING
APPROVED: *R. L. Little* ENGR. L. & D.

MC-4

DATE
6-1-65
6-15-69