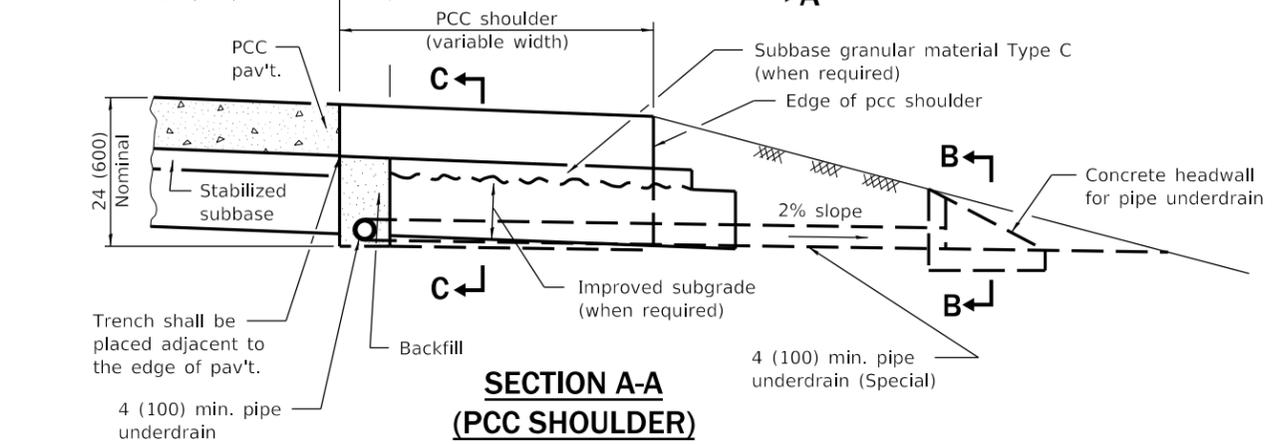


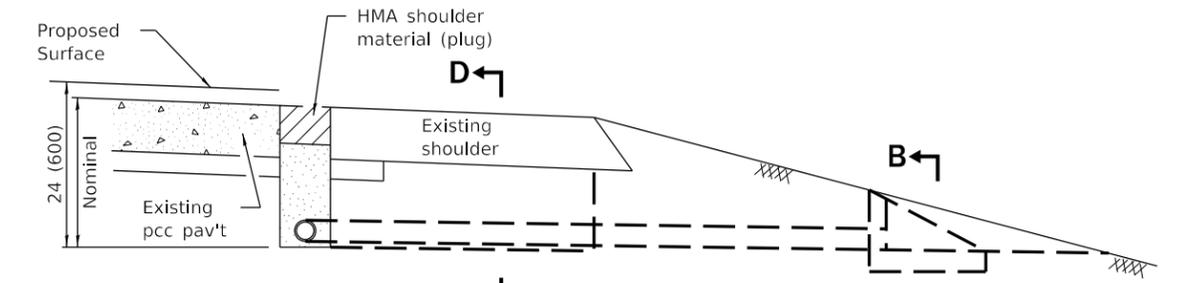
DETAIL E

Width min. = O.D. + 4 (100)
Width max. = 12 (300)

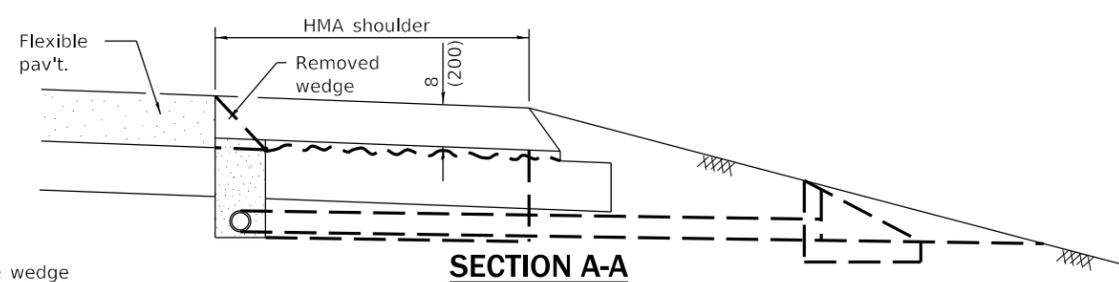


**SECTION A-A
(PCC SHOULDER)**

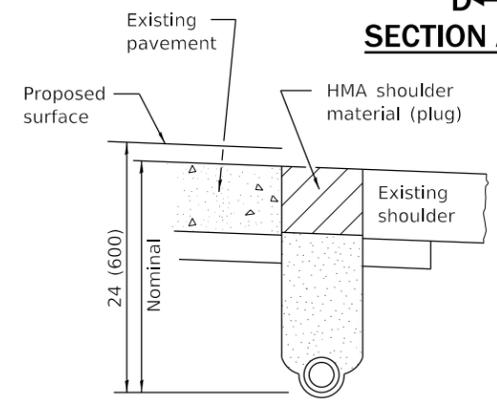
PLAN



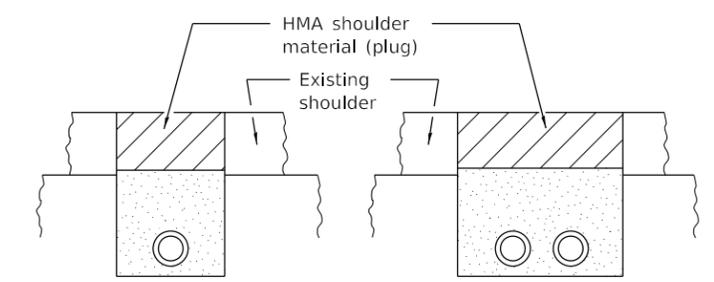
SECTION A-A



**SECTION A-A
(HMA SHOULDER)**

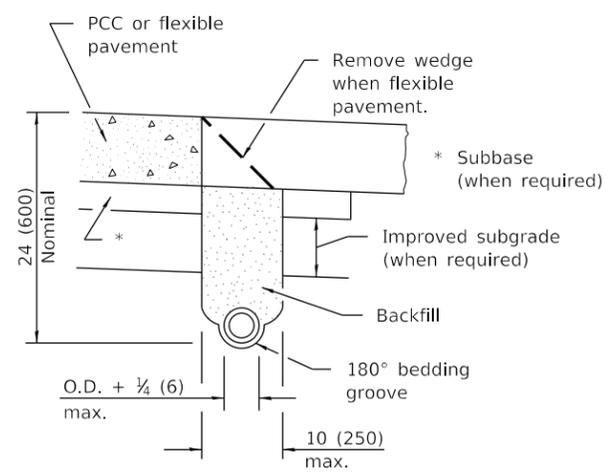


SECTION D-D



**SECTION D-D
(Sag Locations)**

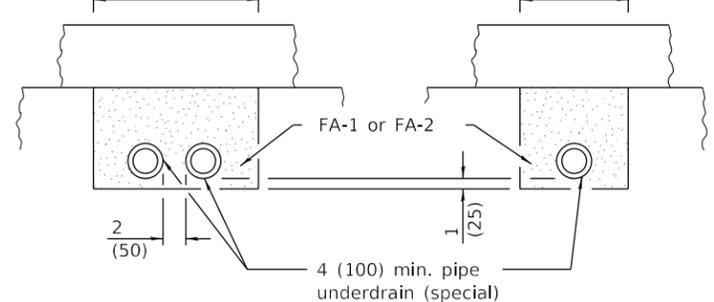
TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE



TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE

Width min. = $(2 \times O.D.) + 6$ (150)
Width max. = 18 (450)

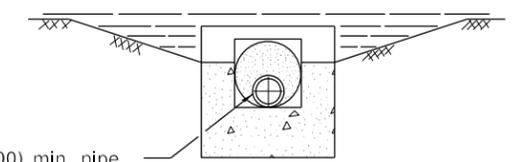
Width min. = $O.D. + 4$ (100)
Width max. = 12 (300)



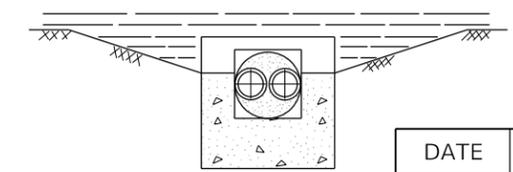
**SECTION C-C
(Sag Locations)**

**SECTION C-C
(Sag Locations)**

NEW CONSTRUCTION



SECTION B-B



**SECTION B-B
(Sag Locations)**

EXISTING CONSTRUCTION

(Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)

GENERAL NOTES

See Standard 601101 for details of concrete headwall.

See Standards 482001, 482006 and 483001 for details of shoulders not shown.

The 24 (600) radius on the drainage fitting is only a minimum. Larger radii meeting the approval of the Engineer may be substituted.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
4-1-16	Renamed standard. Omitted drainage mat option.
1-1-11	Added 'PCC' and 'HMA' to SECTION A-A titles on Sheet 2.

PIPE UNDERDRAINS

STANDARD 601001-05

Illinois Department of Transportation

PASSED April 1, 2016
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED April 1, 2016
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97