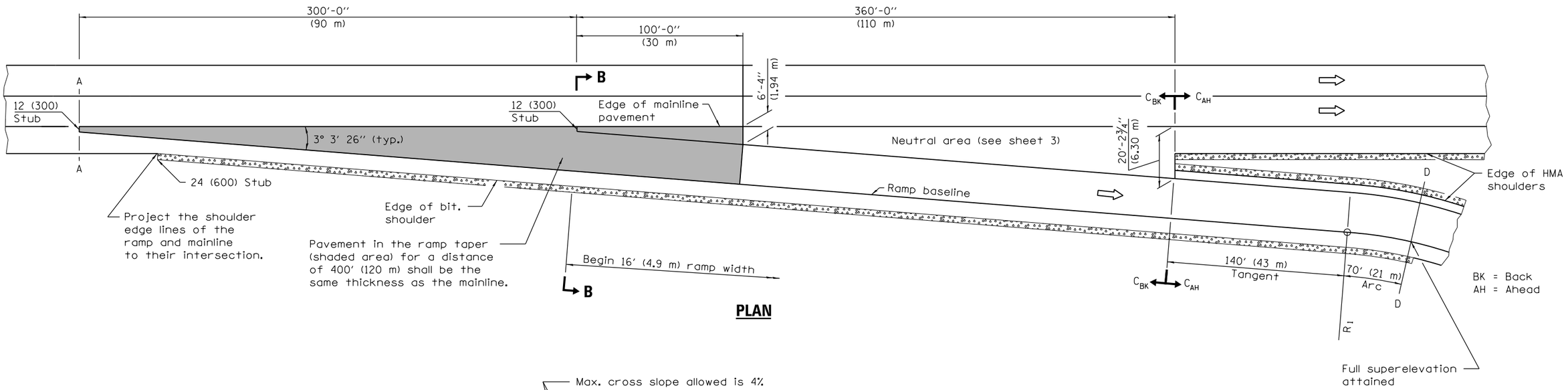
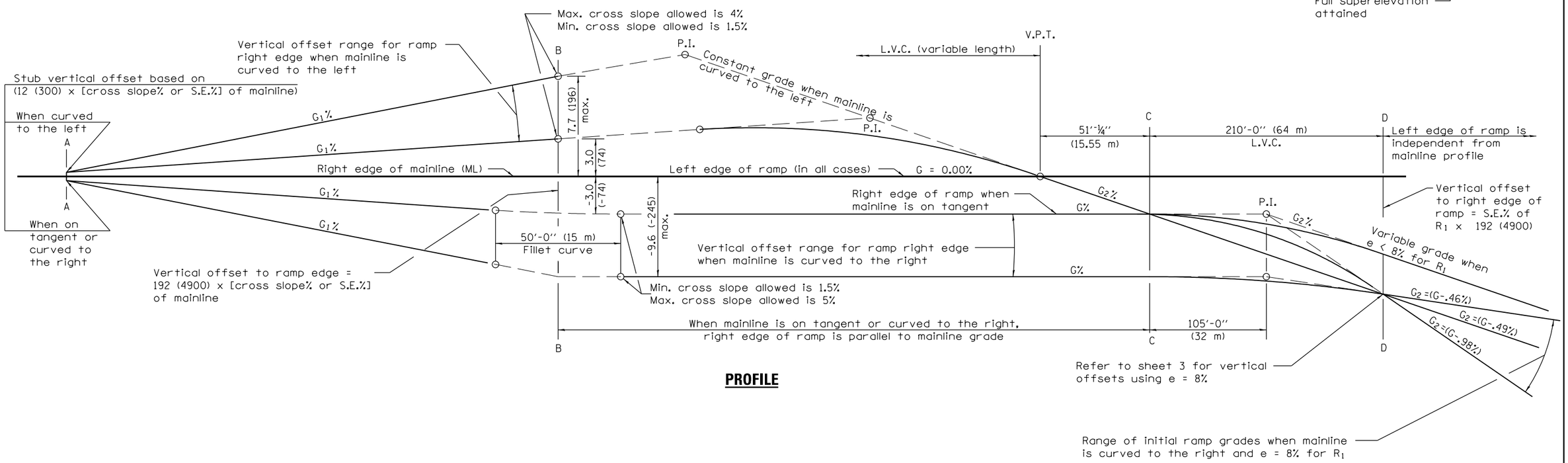


PLAN



PROFILE

See Sheet 3 for GENERAL NOTES

Illinois Department of Transportation

PASSED January 1, 2015
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

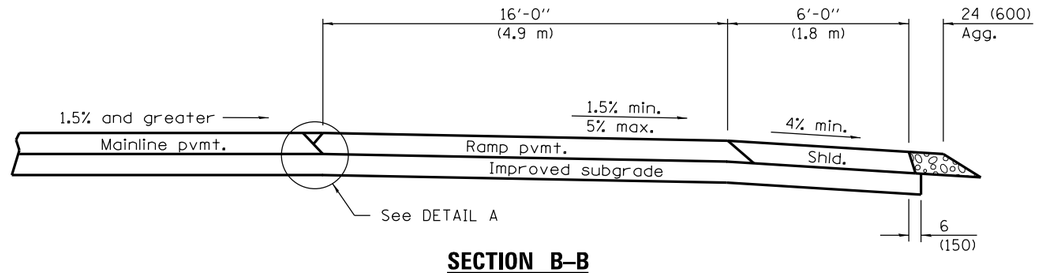
DATE	REVISIONS
1-1-15	Corrected divergence angle
	at taper. Based profile off
	of e-max instead of R1.
1-1-08	Switched units to
	English (metric).

EXIT RAMP TERMINAL

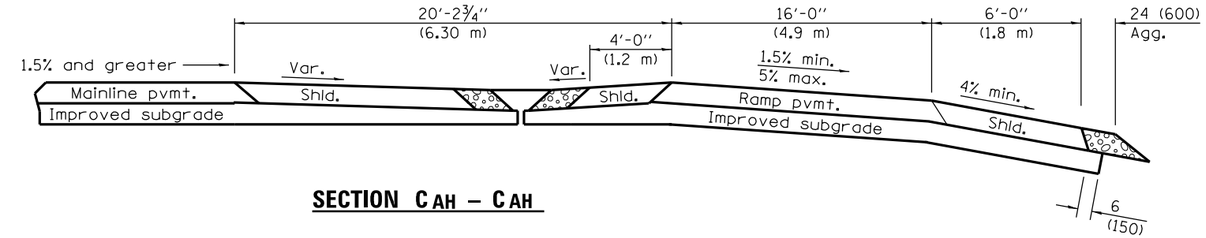
(FLEXIBLE RAMP PAVEMENT ADJACENT TO FLEXIBLE MAINLINE PAVEMENT)

(Sheet 1 of 3)

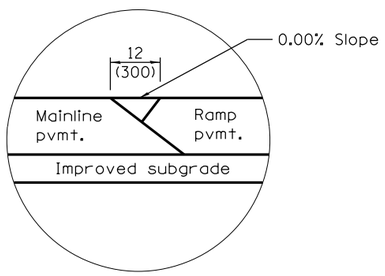
STANDARD 406101–05



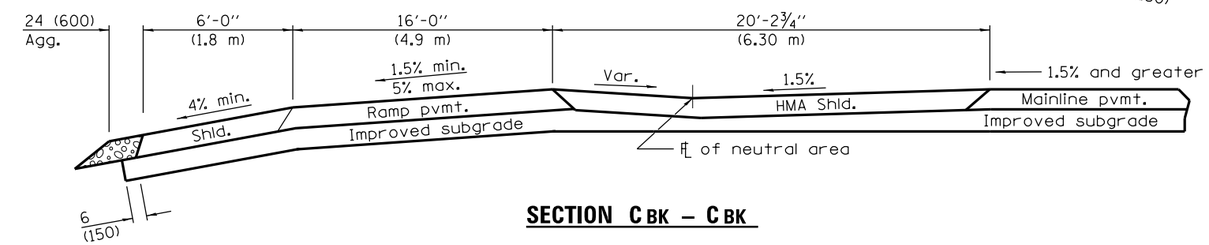
SECTION B–B



SECTION C_{AH} – C_{AH}



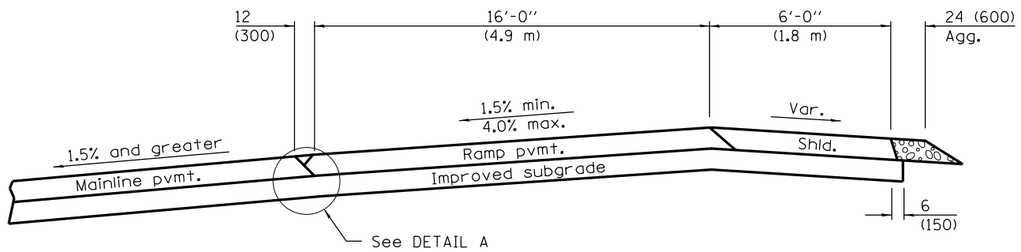
DETAIL A



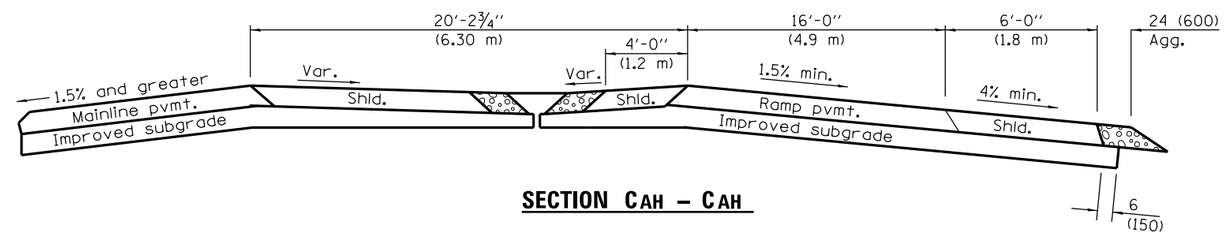
SECTION C_{BK} – C_{BK}

BK = Back
AH = Ahead

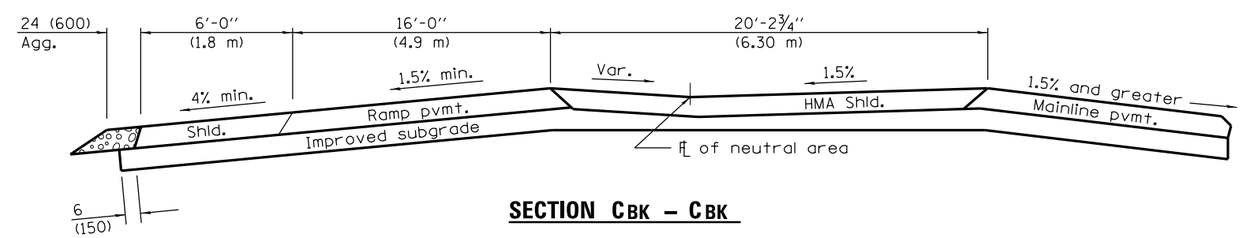
WHEN MAINLINE IS ON TANGENT OR CURVED TO THE RIGHT



SECTION B–B



SECTION C_{AH} – C_{AH}



SECTION C_{BK} – C_{BK}

WHEN MAINLINE IS CURVED TO THE LEFT

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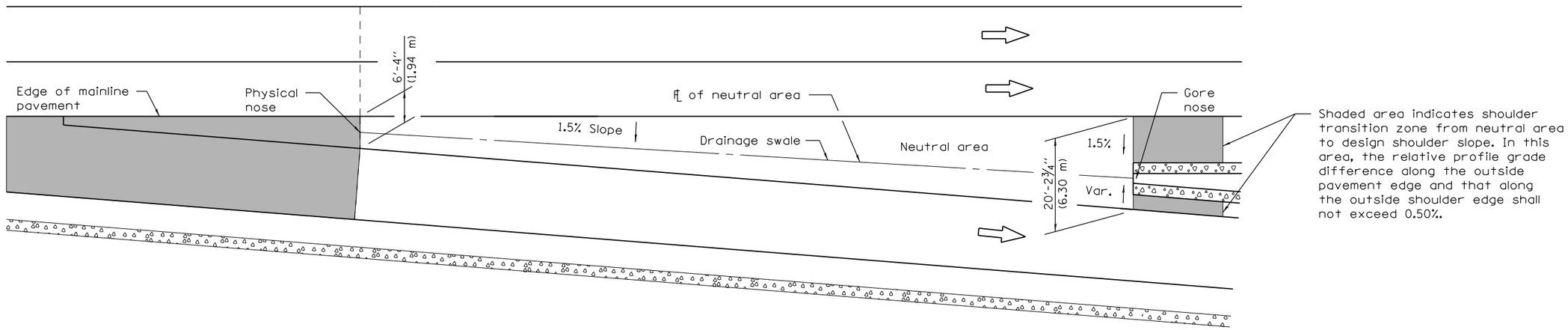
EXIT RAMP TERMINAL

(FLEXIBLE RAMP PAVEMENT ADJACENT TO FLEXIBLE MAINLINE PAVEMENT)

(Sheet 2 of 3)

STANDARD 406101–05



DETAILS FOR DRAINAGE IN NEUTRAL AREA

Vertical offsets in inches for right (1) edge of ramp, when e = 8%			
Sections	Mainline on Tangent	Mainline Curved Right	Mainline Curved Left
A	- 0.18	S.E. % ML x 12	S.E. % ML x 12 (2)
B	- 3.0	S.E. % ML x 192	S.E. % ML x 192 (2)
C	- 3.0	S.E. % ML x 192	- 3.0
D	- 15.4	- 15.4	- 15.4

(1) Vertical offsets in mm for right edge of ramp, when e = 8%			
Sections	Mainline on Tangent	Mainline Curved Right	Mainline Curved Left
A	- 5	S.E.% ML x 300	S.E.% ML x 300 (2)
B	- 74	S.E.% ML x 4900	S.E.% ML x 4900 (2)
C	- 74	S.E. % ML x 4900	- 74
D	- 392	- 392	- 392

(1) Vertical offset values are calculated and based on the right edge of mainline pavement at 0.0 % grade.

(2) The vertical offsets of these points are above the mainline pavement and lie on an upgrade in relationship to the mainline grade.

(3) S.E.=Superelevation Rate

GENERAL NOTES

The initial ramp grade (G_2) is based on the line generated through the PI that is 105 ft. (32 m) past Section C-C and the point created by the vertical offset at Section D-D.

See plans for actual grades.

See Standard 482001 for ramp shoulder details.

In the neutral area, provide a swale and flush inlet to enhance drainage.

When using grades expressed in %, the grade values shall be divided by 100 to obtain vertical offsets.

Where an exit ramp terminal is proposed adjacent to a mainline horizontal curve, construct the edge of the terminal by using offset widths, and for the terminal segment downstream from Section C-C to R_1, construct the ramp as a 140 ft. (43 m) tangent section.

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

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EXIT RAMP TERMINAL

(FLEXIBLE RAMP PAVEMENT ADJACENT TO FLEXIBLE MAINLINE PAVEMENT)

(Sheet 3 of 3)

STANDARD 406101-05