

See Sheet 3 for GENERAL NOTES

Illinois Department of Transportation

PASSED January 1, 2015
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

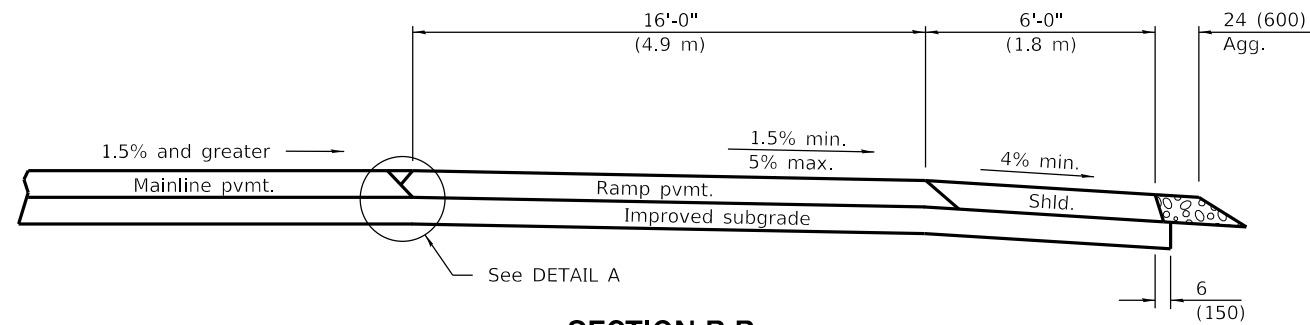
ISSUED 1-1-97

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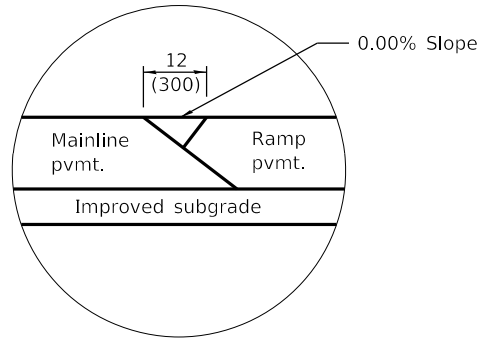
| DATE | REVISIONS |
|--------|---|
| 1-1-15 | Corrected divergence angle at taper. Based profile off of e-max instead of R ₁ . |
| 1-1-08 | Switched units to English (metric). |

EXIT RAMP TERMINAL
(FLEXIBLE RAMP PAVEMENT ADJACENT TO FLEXIBLE MAINLINE PAVEMENT)
(Sheet 1 of 3)

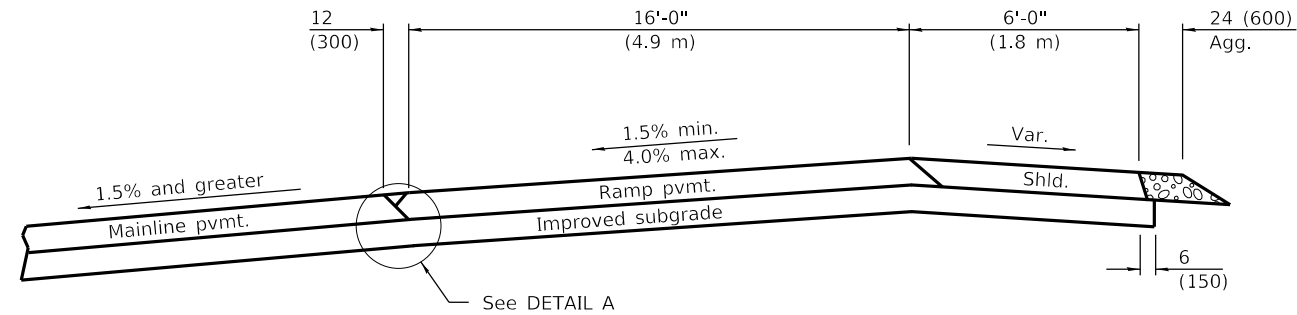
STANDARD 406101-05



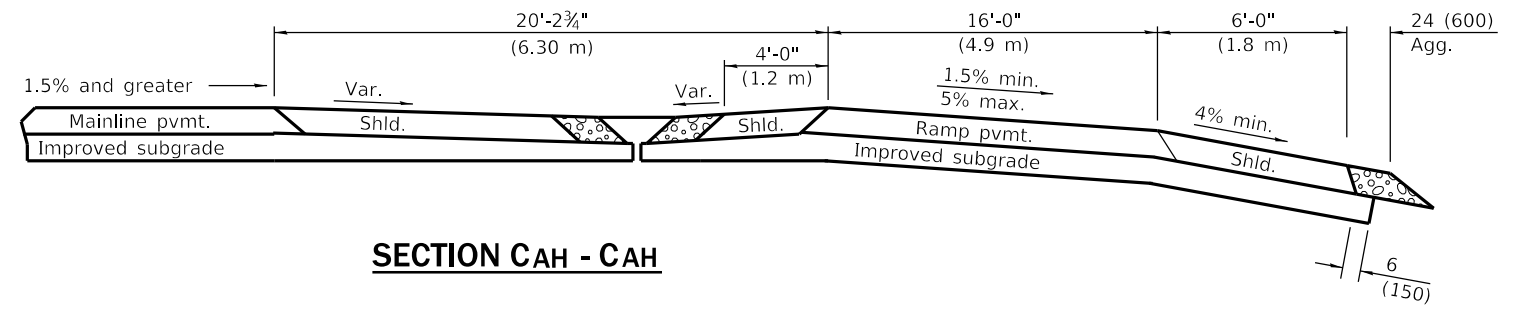
SECTION B-B



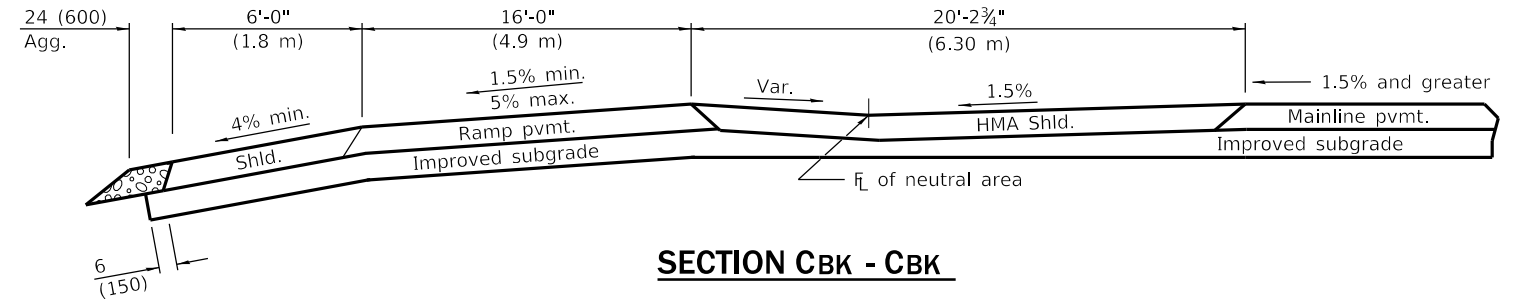
DETAIL A



SECTION B-B



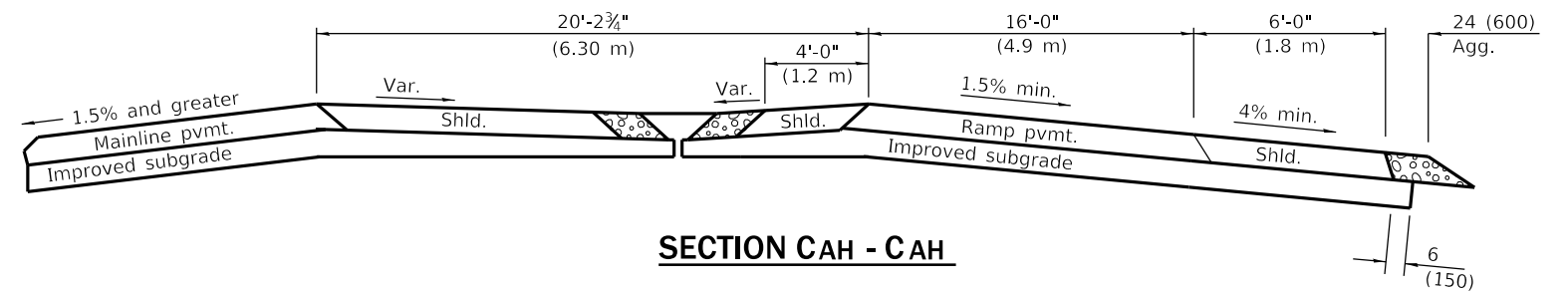
SECTION CAH - CAH



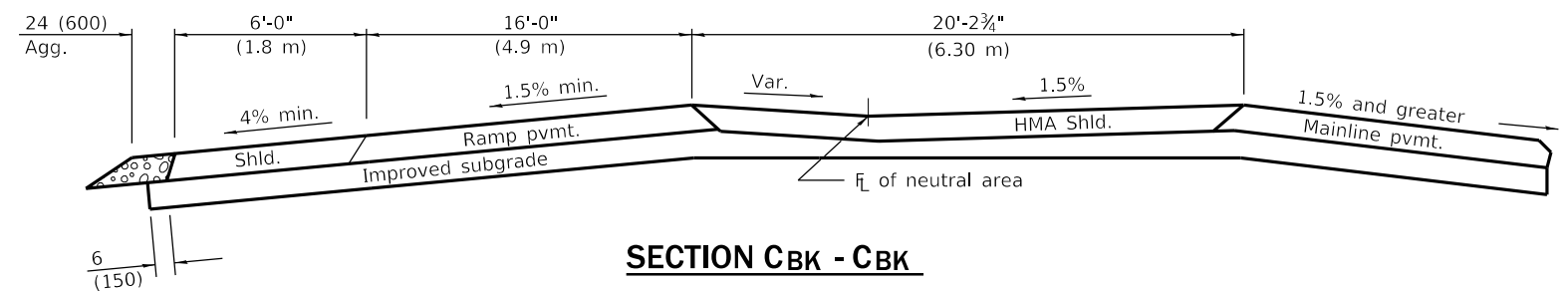
SECTION CBK - CBK

BK = Back
AH = Ahead

WHEN MAINLINE IS ON TANGENT OR CURVED TO THE RIGHT



SECTION CAH - CAH



SECTION CBK - CBK

WHEN MAINLINE IS CURVED TO THE LEFT

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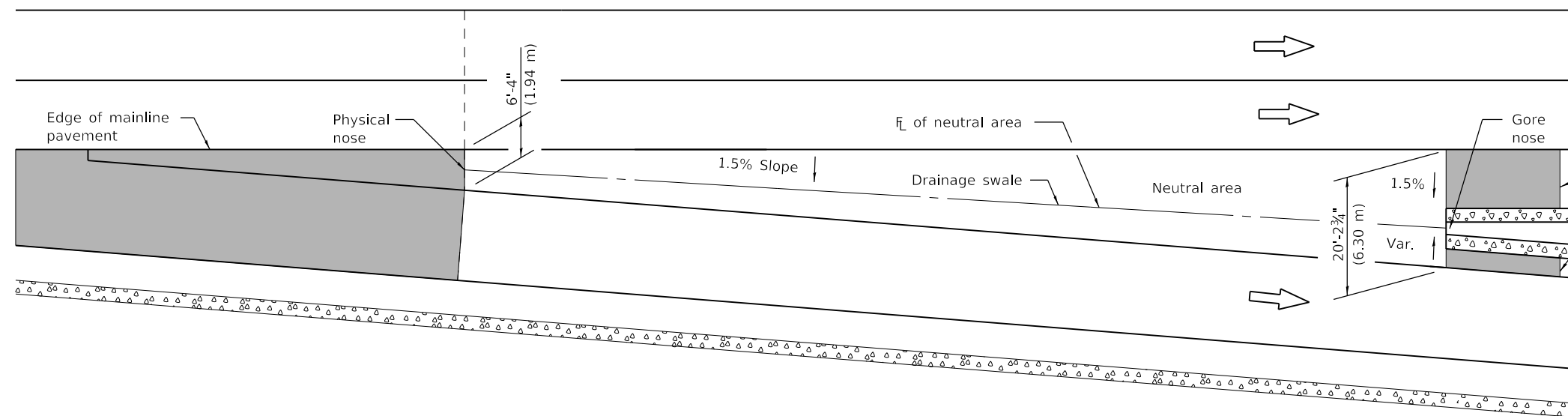
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EXIT RAMP TERMINAL
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(Sheet 2 of 3)

STANDARD 406101-05



Shaded area indicates shoulder transition zone from neutral area to design shoulder slope. In this area, the relative profile grade difference along the outside pavement edge and that along the outside shoulder edge shall not exceed 0.50%.

DETAILS FOR DRAINAGE IN NEUTRAL AREA

GENERAL NOTES

The initial ramp grade (G₂) 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 R₁, construct the ramp as a 140 ft. (43 m) tangent section.

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

| ① Vertical offsets in inches for right 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

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STANDARD 406101-05