

SECTION VIEW A-A
THICKENED SECTION
THROUGH CURB RAMP FLARES



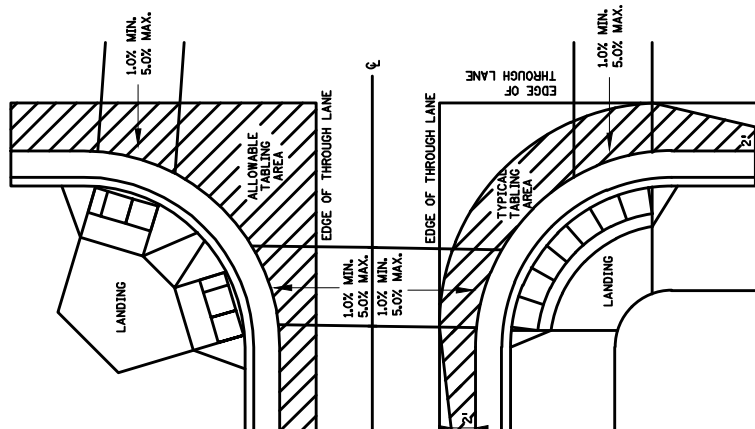
CURB LINE REINFORCEMENT ④
PLACEMENT ON BITUMINOUS ROADWAYS



FLOW LINE PROFILE RAISE - TWIN PERPENDICULARS



FLOW LINE PROFILE RAISE - FAN



CURB LINE AND ROAD CROSSING ADJUSTMENTS

GENERAL NOTES:

"TABLING" OF CROSSWALKS MEANS MAINTAINING LESS THAN 2% CROSS SLOPE WITHIN A CROSSWALK, IS REQUIRED WHEN A ROADWAY IS IN A STOP OR YIELD CONDITION AND THE PROJECT SCOPE ALLOWS.

WILL & OVERLAY PROJECTS: "TABLING" OF FLOW LINES, IN FRONT OF THE PEDESTRIAN RAMP, IS REQUIRED WHEN THE EXISTING FLOW LINE IS GREATER THAN 2% WARPING OF THE BITUMINOUS PAVEMENT CAN NOT EXTEND INTO THE THROUGH LANE. TABLE THE FLOW LINE TO 2% OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

1. 0.5% MIN. CROSS-SLOPE OF THE ROAD
2. 1.0% MIN. CROSS-SLOPE OF THE ROAD
3. 2.0% MIN. CROSS-SLOPE OF THE ROAD
4. 2.5% MIN. CROSS-SLOPE OF THE ROAD

RAISING OF CURB LINES SHOULD OCCUR IN VERTICALLY CONSTRAINED AREAS. RAISE THE CURB LINES ENOUGH TO ALLOW COMPLIANT RAMPS OR AS MUCH AS POSSIBLE, WHILE ADHERING TO THE FOLLOWING CRITERIA:

- 1. 1.0% MIN. AND 3.0% MAXIMUM CROSS-SLOPE OF THE ROAD
- 2. 1.0% MIN. AND 3.0% MAXIMUM CROSS-SLOPE OF PEDESTRIAN RAMP
- 3. 5.0% RECOMMENDED MAX. FLOW LINE
- 4. 5.0% RECOMMENDED MAX. FLOW LINE
- 5. LONGETHWISE THROUGH-LANE ROADWAY TAPERS SHOULD BE 1" VERTICAL PER 15' HORIZONTAL

NOTES:

- ① TO ENSURE RAMP AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (INCLUDING SLOPE) GREATER THAN 2% SHALL BE PERFORMED INDEPENDENT OF CONCRETE POUR.
- ② FOLLOW STEWAK REINFORCEMENT DETAILS ON THIS SHEET FOR ALL SEPARATELY POURED INITIAL LANDINGS.
- ③ DRILL AND GROUT NO. 4 1/2" LONG REINFORCEMENT BARS (EPOXY COATED) AT 36" MAXIMUM CENTER TO CENTER MINIMUM 12" SPACING FROM CONSTRUCTION JOINTS. BARS TO BE ADJUSTED TO MATCH RAMP GRADE. BARS TO BE PAID BY EACH.
- ④ DRILL AND GROUT 2 - NO. 4 X 12" LONG 65% EMBEDDED REINFORCEMENT BARS (EPOXY COATED).

4 THIS CURB LINE REINFORCEMENT DETAIL SHALL BE USED ON BITUMINOUS ROADWAYS. FOR CONCRETE ROADWAYS, SEE NOTE 6.

⑤ CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.

⑥ USE AN APPROVED TYPE F (1/4 INCH THICK) SEPARATION MATERIAL. SEPARATION MATERIAL SHALL MATCH FULL HEIGHT DIMENSION OF ADJACENT CONCRETE.

REVISIONS:		APPROVED: 11-04-2021 <i>Jeff G. Bol.</i> Jeff G. Bol. JGB/JPB/MS PROJECT NO. 11-04-2021	
1) 1.0% MIN. FLOW LINE (ON EITHER SIDE OF PEDESTRIAN RAMP) TO MAINTAIN POSITIVE DRAINAGE 2) 5.0% RECOMMENDED MAX. FLOW LINE 3) LONGITUDINAL THROUGH LANE ROADWAY TAPERS SHOULD BE 1" VERTICAL PER 15' HORIZONTAL		STANDARD PLAN 5-207.250 \$ OF \$ APPROVED: 11-04-2021 <i>JPB</i> REVIEWED:	
		PEDESTRIAN CURB RAMP DETAILS	
STATE PROJ. NO.		SHEET NO. OF SHEETS	