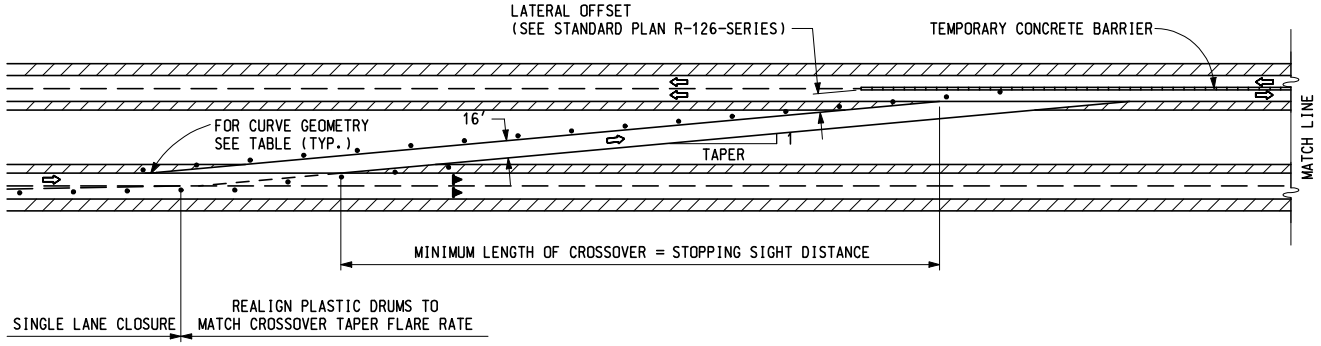
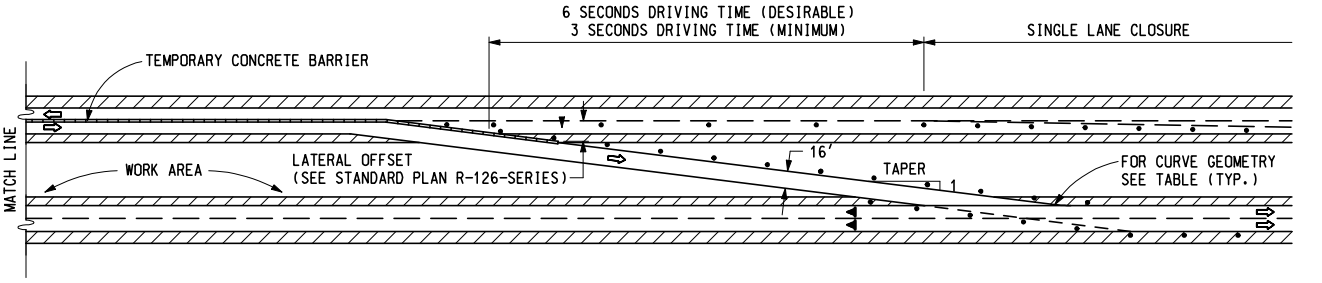
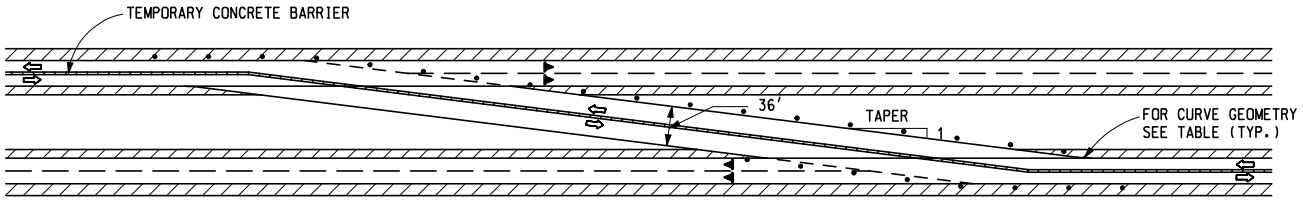




ONE LANE CROSSOVER



TWO LANE, TWO - WAY CROSSOVER

LEGEND

- • PLASTIC DRUM
- ▶ TYPE III BARRICADE

CROSSOVER TAPER GEOMETRY		
DESIGN SPEED (MPH)	MAXIMUM DEFLECTION (TAPER)	MINIMUM RADIUS (FEET)
30	8 : 1	955
40	11 : 1	1910
50	14 : 1	2865
60	17 : 1	3370
70	20 : 1	3820

NOTES:

CROSSOVERS SHALL BE LOCATED TO PROVIDE THE MAXIMUM ADVANCE WARNING TO THE DRIVER BASED ON THE VERTICAL AND HORIZONTAL ALIGNMENTS AT THE SITE.

VEHICLES MUST BE PROTECTED FROM THE BLUNT END OF BARRIERS. PREFERABLY, CONNECT THE TEMPORARY CONCRETE BARRIER TO THE EXISTING MEDIAN BARRIER OR PLACE AS SPECIFIED ON STANDARD PLAN R-126-SERIES.

ON A TWO-WAY CROSSOVER, A TAPER FLATTER THAN SPECIFIED IN THE TABLE IS TO BE USED IF PRACTICAL.

THE MAXIMUM DEFLECTION (TAPER) SHALL BE DETERMINED FROM THE TABLE AS A FUNCTION OF SPEED.

SUPERELEVATION IS NOT REQUIRED FOR THE SPEEDS AND RADII OF THE CURVES GIVEN.

IN WIDE MEDIANS, ALIGNMENT MAY BE DESIGNED INTO THE CROSSOVER TO SHORTEN ITS LENGTH SUBJECT TO THE MINIMUM RADIUS SPECIFIED, WITH THE APPROVAL OF THE ENGINEER. ANY PROPOSED RADIUS WHICH IS LESS THAN THAT SPECIFIED IN THE TABLE SHALL BE REVIEWED BY THE TRAFFIC AND SAFETY SUPPORT AREA FOR DESIGN FEATURES SUCH AS SUPERELEVATION, DEFLECTION, AND REVERSE ALIGNMENT.

PLASTIC DRUMS SHALL BE OFFSET FROM THE LINE OF TRAVEL 2'-0" MINIMUM. THEY MAY BE ALIGNED BY EYE.

TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL BE ACCORDING TO THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

FOR STOPPING SIGHT DISTANCE, REFER TO THE CURRENT EDITION OF THE AASHTO PUBLICATION "A POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS."

FOR SPECIFIC CHANNELIZATION TREATMENTS, SEE THE TRAFFIC AND SAFETY SUPPORT AREA.

THE MINIMUM DESIGN SPEED FOR CROSSOVERS SHOULD BE 10 MPH BELOW THE POSTED SPEED PRIOR TO CONSTRUCTION, UNLESS UNUSUAL SITE CONDITIONS REQUIRE THAT A LOWER DESIGN SPEED BE USED.

MDOT Michigan Department of Transportation

PREPARED BY DESIGN SUPPORT AREA

DRAWN BY: B.L.T.

CHECKED BY: W.K.P.

ENGINEER OF CONSTRUCTION & TECHNOLOGY

ENGINEER OF MAINTENANCE

ENGINEER OF TRAFFIC AND SAFETY

ENGINEER OF DESIGN SUPPORT AREA

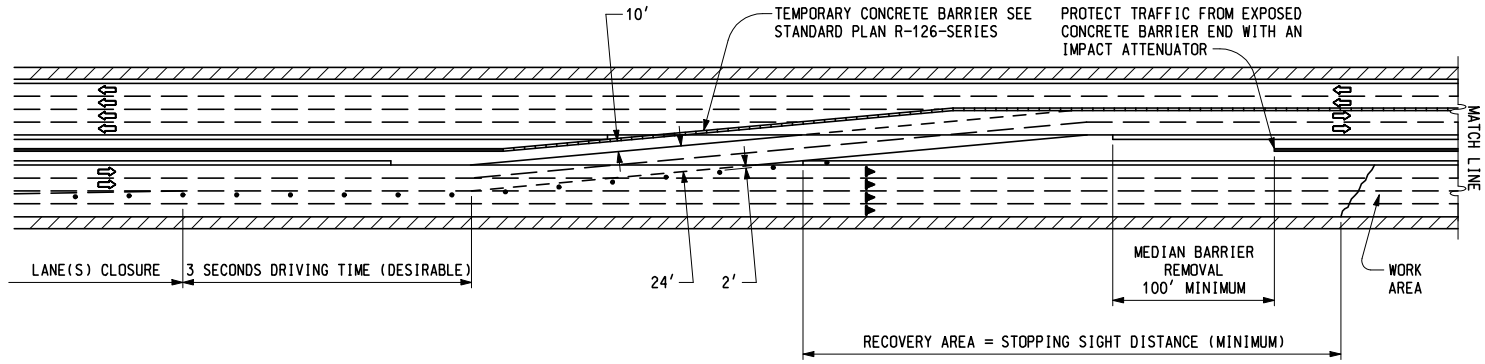
DEPARTMENT DIRECTOR
Gloria J. Jeff

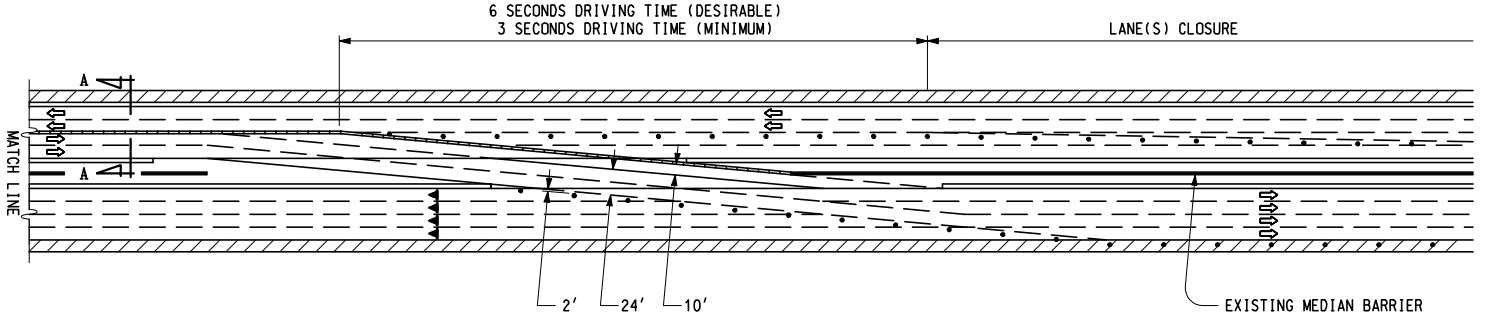
ENGINEER OF DEVELOPMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

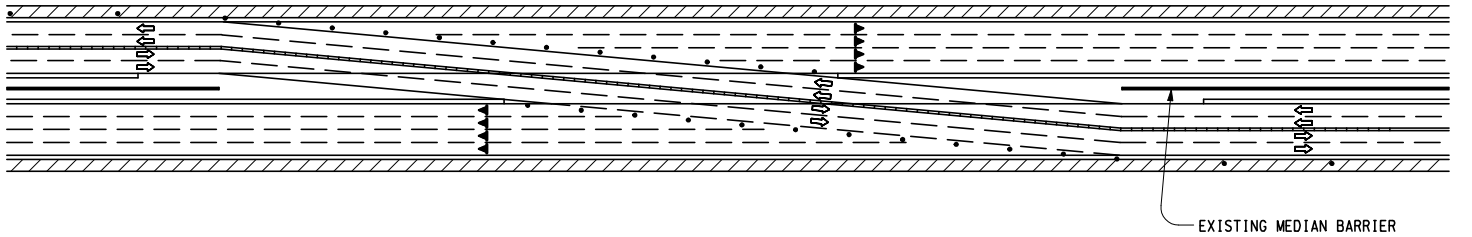
TEMPORARY CROSSOVERS FOR DIVIDED ROADWAYS

10-27-2004	4-16-2004	R-113-C	SHEET 1 OF 2
F.H.W.A. APPROVAL	PLAN DATE		

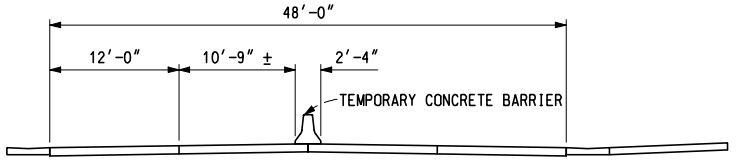




CROSSOVER
(WHERE EXISTING MEDIAN BARRIER IS PRESENT)



TWO - WAY CROSSOVER
(WHERE EXISTING MEDIAN BARRIER IS PRESENT)



SECTION A - A

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

TEMPORARY CROSSOVERS FOR DIVIDED ROADWAYS

10-27-2004 F.H.W.A. APPROVAL	4-16-2004 PLAN DATE	R-113-C	SHEET 2 OF 2