

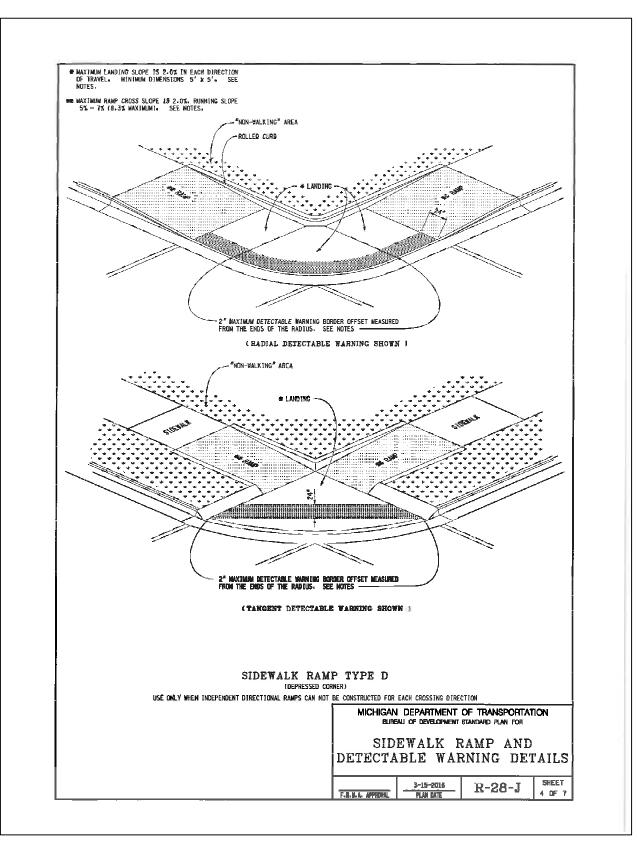
Y: JOE MAYHEW JESUS PLASENCIA I NO: DATE: DRWN E CK BY: PROJEC

DETAILS

CITY OF WYANDOTTE - DEPT. OF ENGINEERING
OITY ENGINEER - MARK A. KOWALEWSKI PHONE: (734) 324-4551 FAX: (734) 324-4535

3200 BIDDLE AVENUE WYANDOTTE, MI 48192

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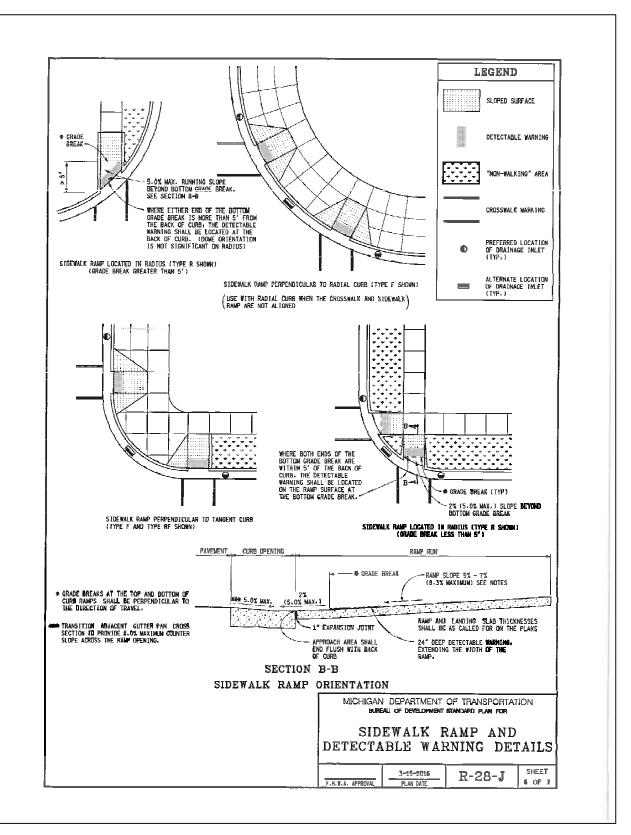
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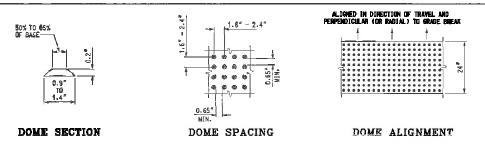
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DETECTABLE WARNING DETAILS

DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION. RECONSTRUCTION, OR ALTERATION OF STREETS, CURBS, OR SIDEWALKS IN THE PUBLIC RIGHT OF WAY.

SIDEWALK RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

RAMPS SHALL BE PROVIDED AT ALL CORNERS OF AN INTERSECTION WHERE THERE IS EXISTING OR PROPOSED SIDEMALK AND CURB. RAMPS SHALL ALSO BE PROVIDED AT MARKED AND/OR SIGNALIZED MID-BLOCK CROSSINGS.

SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING. TRANSVERSE TO THE RUNNING SLOPE.

SIDEWALK SHALL BE RAMPED WHERE THE DRIVEWAY CURB IS EXTENDED ACROSS THE WALK- $\,$

CARE SHALL BE TAKEN TO ASSUME A UNIFORM CHADE ON THE RAMP. WHERE CONDITIONS PERMIT, IT IS DESIRABLE THAT THE SLOPE OF THE RAMP BE IN DNLY ONE DIRECTION. PARALLEL TO THE DIRECTION OF TRAVEL.

RAMP WIDTH SHALL BE INCREASED. IF MECESSARY. TO ACCOMMODATE SIDEWALK SNOW REMOVAL EQUIPMENT NORMALLY USED BY THE MUNICIPALITY.

WHEN 5' MINIMUM WIDTHS ARE NOT FEASIBLE. RAMP WIDTH MAY BE REDUCED TO NOT LESS THAN 4' AND LANDLINGS TO NOT LESS THAN 4' \times 4'.

DETECTABLE BARNING SURFACE COVERAGE IS 24" MINIMUM IN THE DIRECTION OF THAMP/PATH THATPL AND THE FULL WIDTH OF THE RAMP/PATH DPENNING EXCLUDING CURBED OF FLARED URB TRANSITION AREAS. A BORDER OFFSET NOT GREATER THAN 2" MEASURED ALONG THE EDGES OF THE DETECTABLE WARNING IS ALLOWABLE. FOR RADIAL CURB THE OFFSET IS MEASURED FROM THE ENDS OF THE RADIALS.

FOR NEW ROADWAY CONSTRUCTION. THE RAMP CROSS SLOPE MAY NOT EXCEED 2.0%. FOR ALTERATIONS TO EXISTING ROADWAYS THE CROSS SLOPE MAY BE TRANSITIONED TO MEET AN EXISTING ROADWAY GRADE. THE CROSS SLOPE TRANSITION SHALL BE APPLIED UNIFORMLY GWER THE FULL LENGTH OF THE RAMP.

THE MAXIMUM RUNNING SLOPE OF \$1.3% IS RELATIVE TO A FLAT COMMITTEE HOWEVER, IT SHALL NOT REQUIRE ANY RAMP OR SERIES OF RAMPS TO EXCEED 15 FEET IN LENGTH.

DRAINAGE STRUCTURES SHOWLD NOT BE PLACED IN LINE WITH RAMPS. THE LOCATION OF THE RAMP SHOULD TAKE PRECEDENCE OVER THE LOCATION OF THE DRAINAGE STRUCTURE. WHERE EXISTING DRAINAGE STRUCTURES ARE LOCATED IN THE RAMP PAIN OF TRAVEL. USE A MANUFACTURER'S ADA COMPLIANT GRATE. DPENINGS SHALL NOT BE GREATER THAN 1-4". ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

TRANSITION THE GUTTER PAN CROSS SECTION SUCH THAT THE COUNTER SLOPE IN THE DIRECTION OF RAMP TRAVEL IS NOT GREATER THAN 5.0% MAINTAIN THE NORMAL GUTTER PAN CROSS SECTION ACROSS BRAINAGE STRUCTURES.

THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.

CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED AS TO STOP TRAFFIC SMORT OF RAMP CROSSINGS. SPECIFIC DETAILS FOR MARKING APPLICATIONS ARE SIVEN IN THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

FLARED SIDES WITH A SLOPE OF 102 MAXIMUM, MEASURED ALONG THE ROADSIDE CURB LINE, SHALL BE PROVIDED WHERE AN UNDESTRUCTED CIRCULATION PATH LATERALLY CROSSES THE SIDEMALE RAMP. FLARED SIDES ARE NOT REQUIRED WHERE THE RAMP IS BORDERED BY LANDSCAPING, UNAVED SURFACE OR PERMANENT FIXED OBJECTS. WHERE THEY ARE NOT REQUIRED, FLARED SIDES CAN BE CONSIDERED IN ORDER TO AVOID SHARP CURB RETURNS AT RAMP OPENINGS.

DETECTABLE WARNING PLATES MUST BE INSTALLED USING FABRICATED OR FIELD OUT UNITS CAST AND/OR ANCHORED IN THE PAYEMENT TO RESIST SHIFTING OR HEAVING.

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR

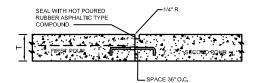
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS

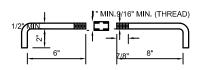
	3-15-2016	R-28-J	SHEET
F.H.W.A. APPROVAL	PLAN DATE	70 50 0	7 OF 7

USE OF ROLLED CURB ON ADA SIDEWALK RAMPS IS NOT PERMITTED IN THE CITY OF WYANDOTTE CONTRACTOR IS TO REGRADE AND SOD THE ELEVATION DIFFERENCE, AS DIRECTED BY THE ENGINEER.

THE DETECTABLE/TACTILE WARNING SURFACE SHALL BE "SAFETY YELLOW". (FEDERAL COLOR NO. 33538) EXPANSION JOINT SHALL BE PLACED AT THE END OF THE RADIUS AT STREET INTERSECTIONS AND WHERE SHOWN ON THE PLANS, MAXMUM SPACE OF 400' SHALL BE MAINTAINED FOR EXPANSION JOINTS.

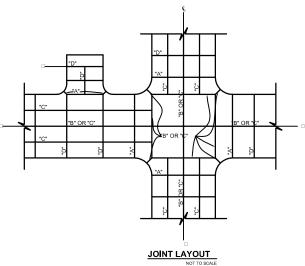
TRANSVERSE EXPANSION JOINT "A"



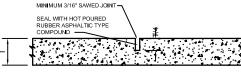


HOOK BOLT DETAIL

LONGITUDINAL BULKHEAD CONSTRUCTION JOINT "B"



NOTE:
TRANSVERSE EXPANSION AND WEAKENED PLANE JOINTS IN THE PAYEMENT SHALL
EXTEND ENTRELY THROUGH INTEGRAL CURB AND SHALL BE OF THE SAME
THICKNESS AND KIND AS PROVIDED FOR THE PAYEMENT, THE JOINT MATERIAL
SHALL BE PRECUT SO AS TO CONFORM TO THE GEOMETRIC SHAPE AND CROSS
SECTION AREA OF THE CURB AND SHALL BE PLACED IN CONTACT WITH THE PILLER
MATERIAL IN THE PAYEMENT.



LONGITUDINAL JOINTS SHALL BE PLACED IN ACCORDANCE WITH THE JOINTING DETAILS SHOWN ON THIS SHEET.

SAWCUT (3/16" WIDE MIN.) NO SOONER THAN 12 HOURS NOR LATER THAN 48 HOURS AFTER PLACEMENT OF CONCRETE AND SEAL WITH HOT POURED RUBBER ASPHALT TYPE JOINT SEALING COMPOUND CONFORMING TO MODT STANDARD SPECIFICATIONS FOR CONSTRUCTION 2003, SECTION 914, JOINT MATERIALS.

LONGITUDINAL PLANE JOINT "C"

- LOAD TRANSFER ASSEMBLY PER

TRANSVERSE WEAKENED PLANE JOINT "D" SHALL BE PLACED AT 15" INTERVALS BETWEEN TRANSVERSE EXPANSION JOINTS UNLESS OTHERWISE SHOWN ON PLANS.

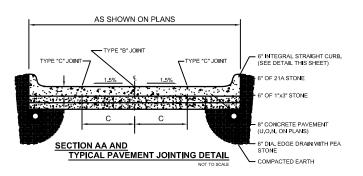
MDOT STANDARD SPECIFICATION

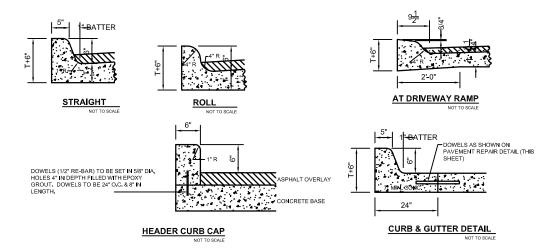
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ALTERNATE:
TRANSVERSE WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED
IMMEDIATELY AFTER THE FINISHING OPERATION HAS BEEN
COMPLETED. A GROOVE SHALL BE FORMED IN THE PLASTIC
CONCRETE WITH A METAL FORMING STRIP, A 14" PRE MOULDED
BITUMINOUS JOINT FILLER SHALL BE PLACED IN THE GROOVE FORMED
BY THE METAL STRIP. FROM A ERIDGE OPERATION ON THE
PAVEMENT FORMS. THE CONCRETE SHALL BE HARD FLOATED
AGAINST THE SIDES OF THE FILLER AND THE JOINTS EDGED TO THE
RADIUS SHOWN.

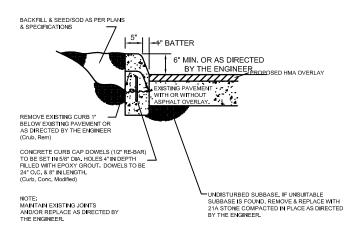
TRANSVERSE WEAKENED PLANE JOINT "D"

W	Т	С	CENTERLINE JOINTS	REMARKS	
21'	7"		"B" OR "C"		
29'	7"	8'	"B"		
30'	7"	8'	"B"	IF PAVEMENT IS PLACED IN TWO POURS USE "B" JOINT WITH 40" SPACING (SEE DETA	
37'	8"	11'	"B"		
50'	8"	13'	"B"	THIS SHEET)	
27'	9"	N/A	"B" OR "C"		

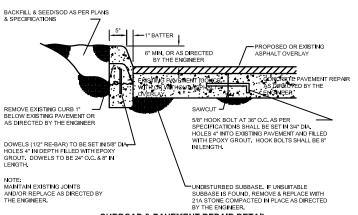




INTEGRAL CURB DETAILS WITH OR WITHOUT EXISTING OR PROPOSED ASPHALT OVERLAY



CURB CAP DETAIL



CURBCAP & PAVEMENT REPAIR DETAIL TYPICAL WITH OR WITHOUT AS

