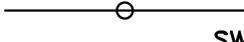
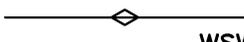
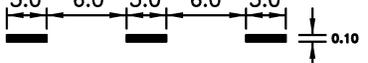
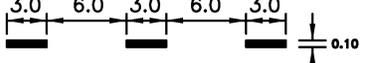
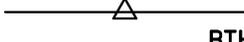
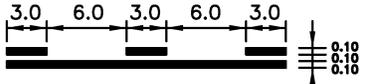
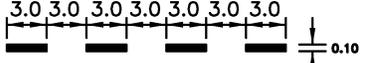
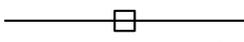
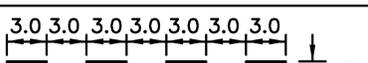
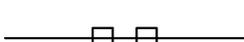
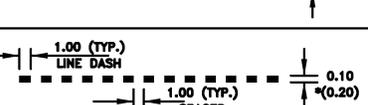
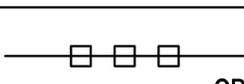
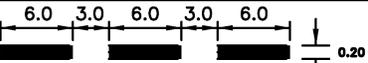
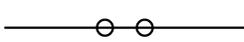
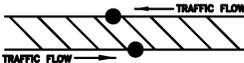
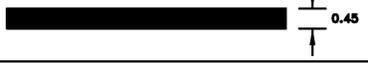
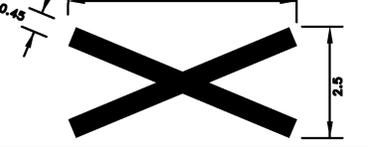


DS 400 Series – Paving Marking Design Standard Drawings List

Drawing Number	Drawing Title	Revision Date
DS-400	Pavement marking Legend	January 2023
DS-401	Typical Pavement Markings for Slip Around Lane	January 2023
DS-402	Typical Pavement Markings for “T” Intersection Left Turn Lane Split	January 2023
DS-403	Typical Pavement Markings for “T” Intersection Left Turn Lane on Right of Centreline	January 2023
DS-404	Typical Pavement Markings for 2 Lane “X” Intersection	January 2023
DS-405	Typical Pavement Markings for 4 Lane “X” Intersection (Without Median Islands)	January 2023
DS-406	Typical Pavement Markings for 4 Lane “X” Intersection (With Median Islands)	January 2023
DS-407	Typical Pavement Markings for 4 Lane “X” Intersection Median Islands - Double Left Turn Lane	January 2023
DS-408	AODA Compliant Typical Pedestrian Equipment using Pedestrian Signal Poles and Crosswalks with Tactile Warning Plates	January 2023
DS-409	Typical Zebra Pavement Marking Detail at Signalized Intersections using “TrafficPatternsXD”	January 2023
DS-411	AODA Compliant Typical Pedestrian Equipment and Tactile Warning Plates for Viva/Rapidways	January 2023
DS-412	Typical Zebra Pavement Marking Detail at Signalized Intersections	January 2023
DS-413	Typical Crossride Pavement Marking Detail at Signalized Intersections	January 2023
DS-414	Typical Crossride Pavement Marking Detail at Unsignalized Intersections	January 2023
DS-415	Typical Crossride Pavement Marking Detail at Driveway with Multi-Use Path Crossing	January 2023
DS-416	Typical Crossride Pavement Marking Detail at Driveway with In-Boulevard Cycle Track Crossing	January 2023
DS-420	Hatched Pavement Markings for Emergency Service Access	January 2023

NAME	DIMENSIONS	USE	SYMBOL
SOLID (WHITE)		EDGE LINES LANE LINES *CROSSWALKS ONLY (0.15 WIDE)	 SW
WIDE SOLID (WHITE)		EDGE LINE THROUGH TRANSITION AREA	 WSW
SOLID (YELLOW)		DIRECTIONAL DIVIDING LINES	 SY
DOUBLE SOLID (YELLOW)		DIRECTIONAL DIVIDING LINES	 DSY
BROKEN (YELLOW)		DIRECTIONAL DIVIDING LINES	 BY
BROKEN-URBAN (WHITE)		URBAN LANE LINES, LOW SPEED	 BTH
SIMULTANEOUS SOLID AND BROKEN (YELLOW)		DIRECTIONAL DIVIDING LINES	 SB
SIMULTANEOUS SOLID AND BROKEN (YELLOW)		TWO-WAY LEFT TURN LANES (BROKEN LINE ON OUTSIDE & SOLID LINE ADJACENT TO CL)	 SBS
BROKEN (WHITE)		LEFT OR RIGHT TURN LANE LINES	 BTU
WIDE BROKEN (WHITE)		CONTINUITY LINES	 BW
CONDENSED BROKEN (WHITE)		BUS BAYS (WHITE) *GUIDING LINES (WHITE) (E.G. INTERSECTION MOVEMENTS)	 CB
WIDE BROKEN (WHITE)		H.O.V LANES	
LIMITS		DENOTES LIMITS OF SYMBOLS	 LIM
HATCHING	SOLID YELLOW OR WHITE 0.45 WIDE, 45 ° ANGLE, 6.0m APART	YELLOW FOR SEPARATION OF OPPOSING TRAFFIC	
		WHITE FOR DIVERGING TRAFFIC	
STOP BLOCK		INTERSECTION STOP LINES (WHITE)	
CROSS		APPROACH TO RAILWAY CROSSING & PEDESTRIAN CROSSOVER (WHITE)	
RAILWAY STOP BLOCK		RAILWAY CROSSING STOP LINES (WHITE)	



**Public Works
Transportation**

PAVEMENT MARKING LEGEND

DATE: JANUARY 2023

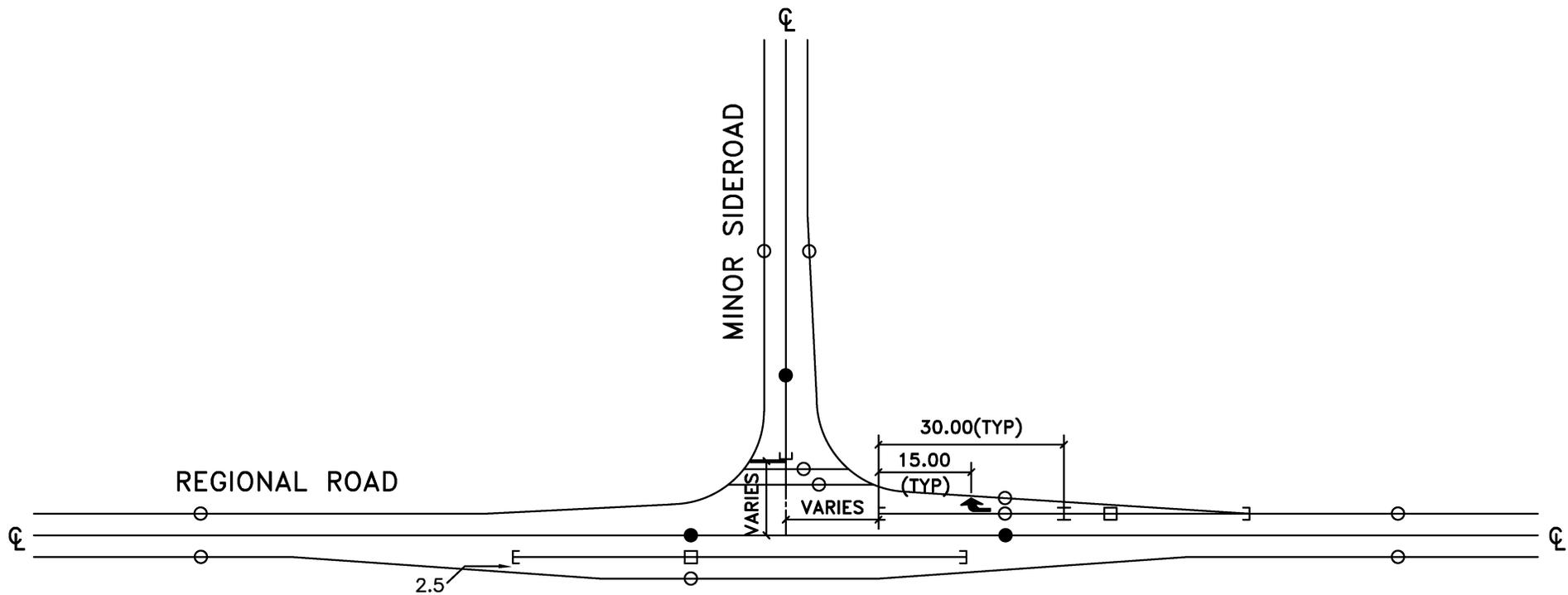
SCALE N.T.S.

REV.

X

X

DS-400



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. EDGE LINES ARE TO BE USED ONLY WHERE THERE IS NO CURB AND GUTTER.
4. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.



**Public Works
Transportation**

**TYPICAL PAVEMENT MARKINGS FOR
SLIP AROUND LANE**

DATE: JANUARY 2023

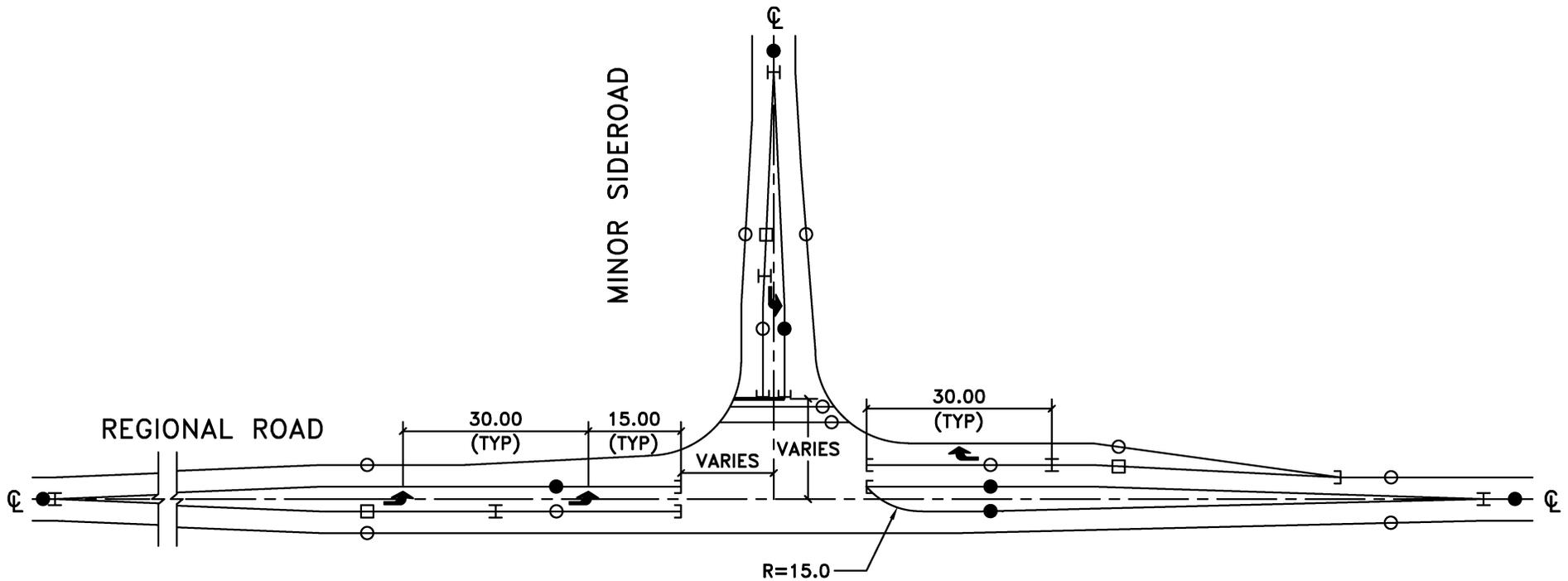
SCALE N.T.S.

REV.

X

X

DS-401



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. EDGE LINES ARE TO BE USED ONLY WHERE THERE IS NO CURB AND GUTTER.
4. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.



**Public Works
Transportation**

**TYPICAL PAVEMENT MARKINGS FOR
"T" INTERSECTION
LEFT TURN LANE SPLIT**

DATE: JANUARY 2023

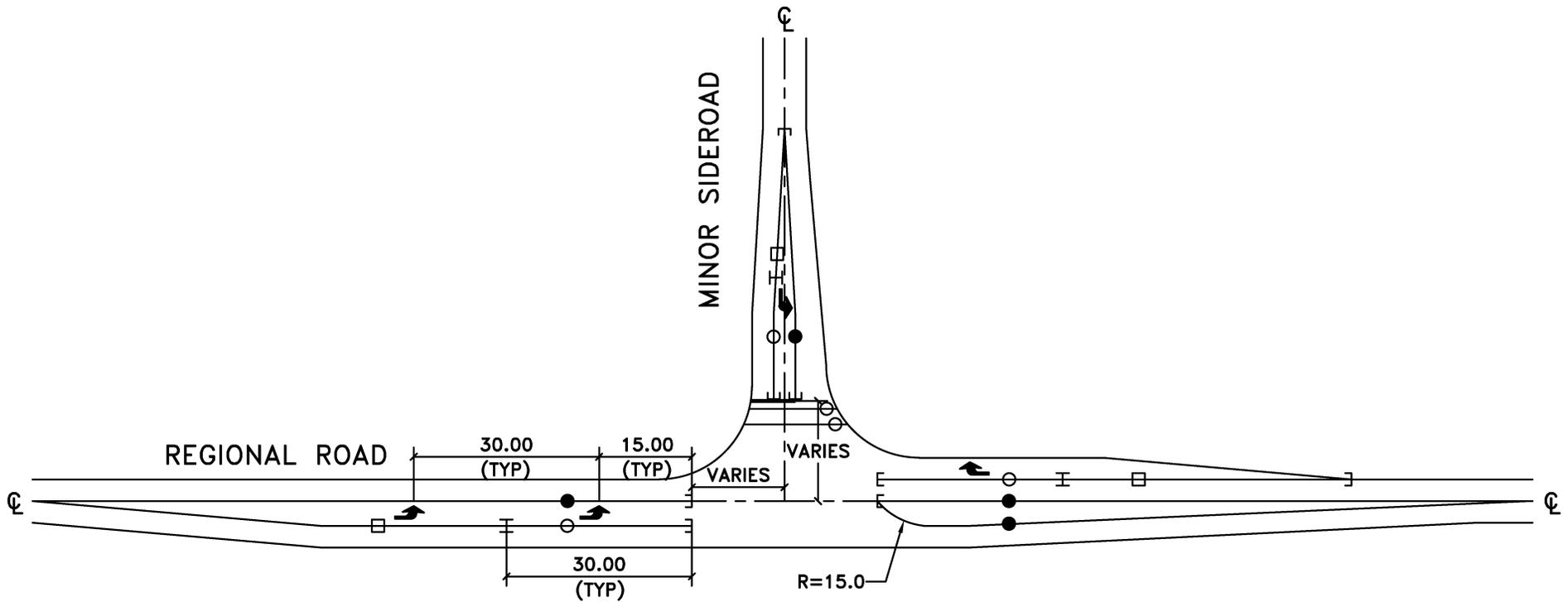
SCALE N.T.S.

REV.

X

X

DS-402



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. EDGE LINES ARE TO BE USED ONLY WHERE THERE IS NO CURB AND GUTTER.
4. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.



**Public Works
Transportation**

**TYPICAL PAVEMENT MARKINGS FOR
"T" INTERSECTION
LEFT TURN ON RIGHT OF CENTRELINE**

DATE: JANUARY 2023

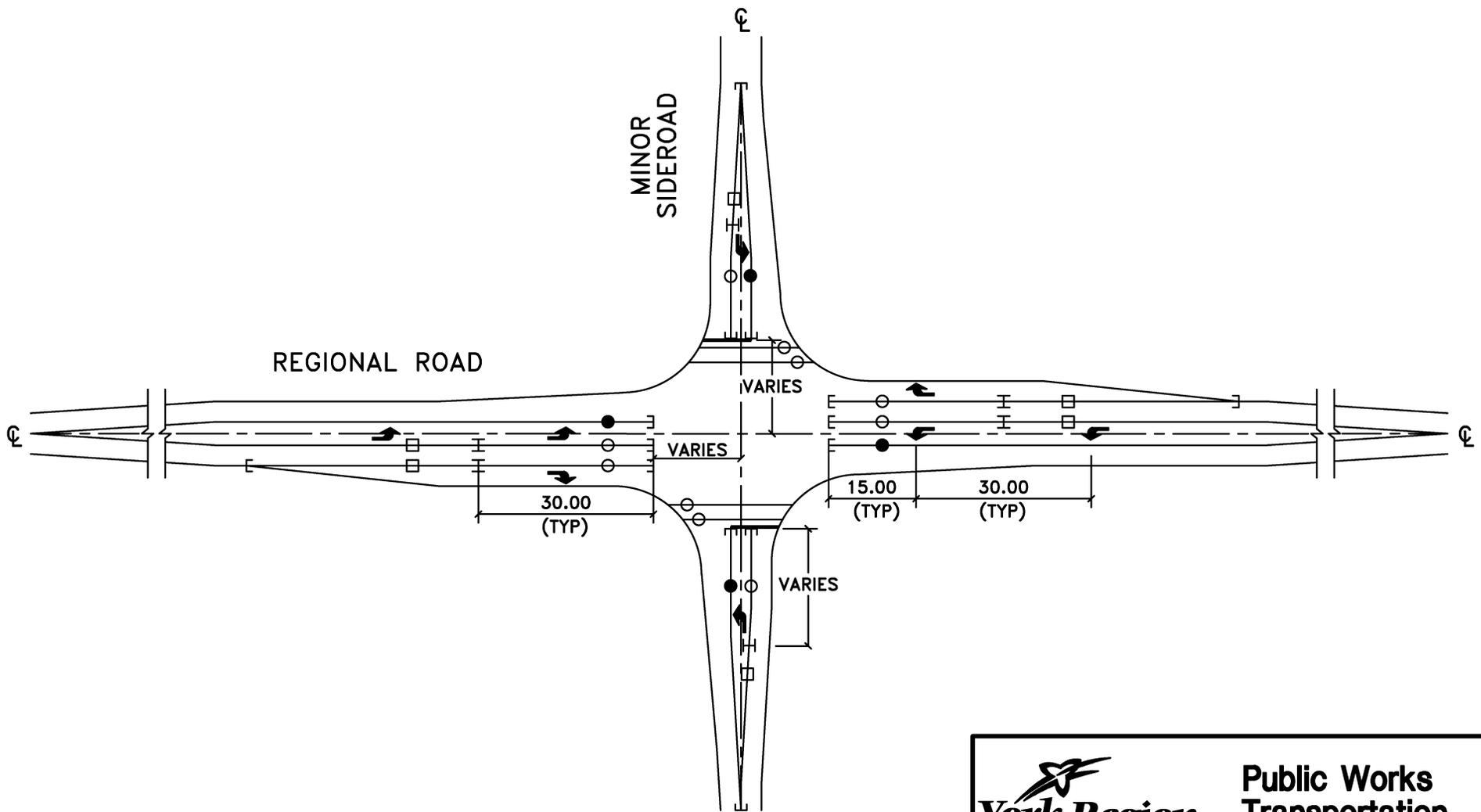
SCALE N.T.S.

REV.

X

X

DS-403



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. EDGE LINES ARE TO BE USED ONLY WHERE THERE IS NO CURB AND GUTTER.
4. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.



**Public Works
Transportation**

**TYPICAL PAVEMENT MARKINGS FOR
2 LANE "X" INTERSECTION**

DATE: JANUARY 2023

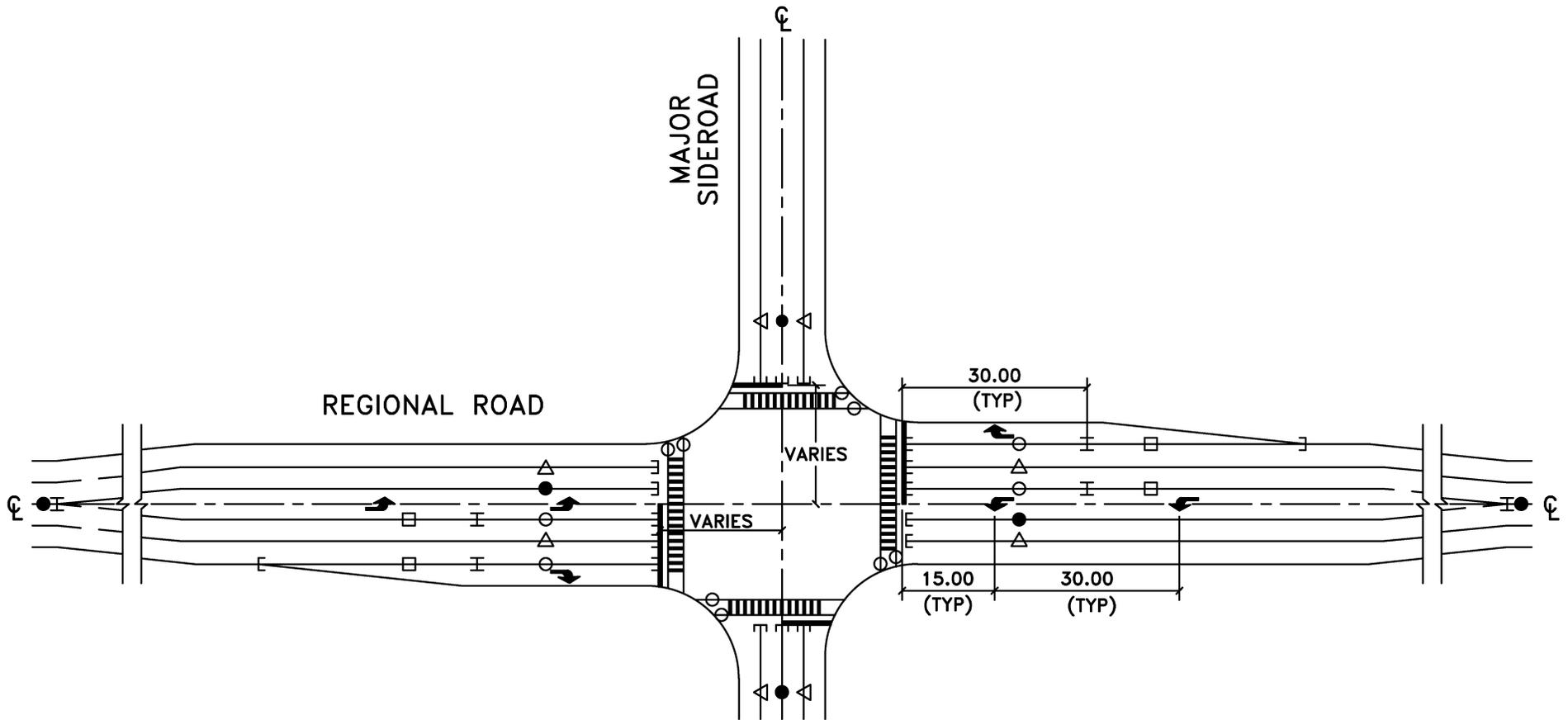
SCALE N.T.S.

REV.

X

X

DS-404



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. EDGE LINES ARE TO BE USED ONLY WHERE THERE IS NO CURB AND GUTTER.
4. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.



**Public Works
Transportation**

**TYPICAL PAVEMENT MARKINGS FOR
4 LANE "X" INTERSECTION
(WITHOUT MEDIAN ISLANDS)**

DATE: JANUARY 2023

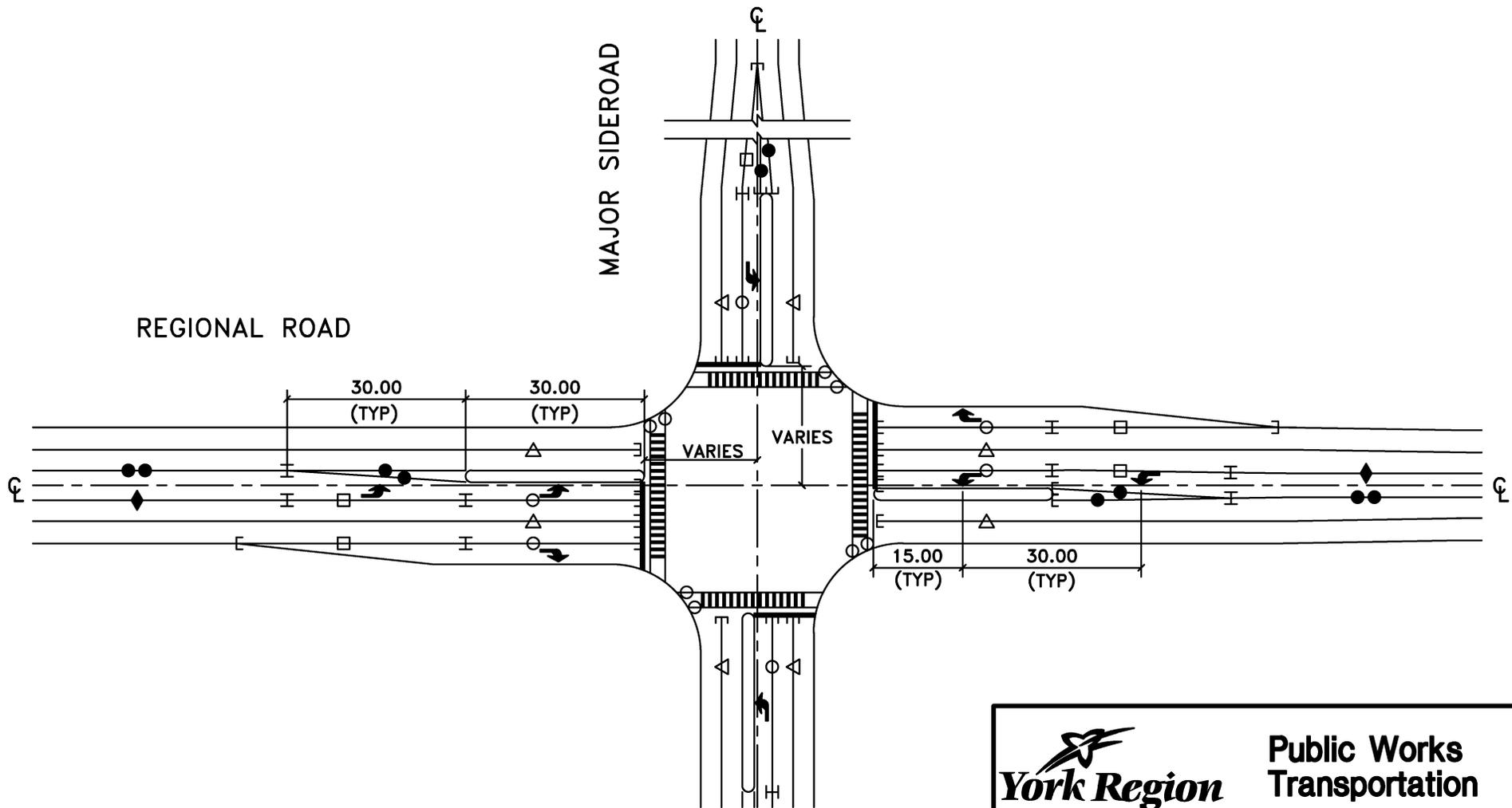
SCALE N.T.S.

REV.

X

X

DS-405



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. EDGE LINES ARE TO BE USED ONLY WHERE THERE IS NO CURB AND GUTTER.
4. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.



**Public Works
Transportation**

**TYPICAL PAVEMENT MARKINGS FOR
4 LANE "X" INTERSECTION
(WITH MEDIAN ISLANDS)**

DATE: JANUARY 2023

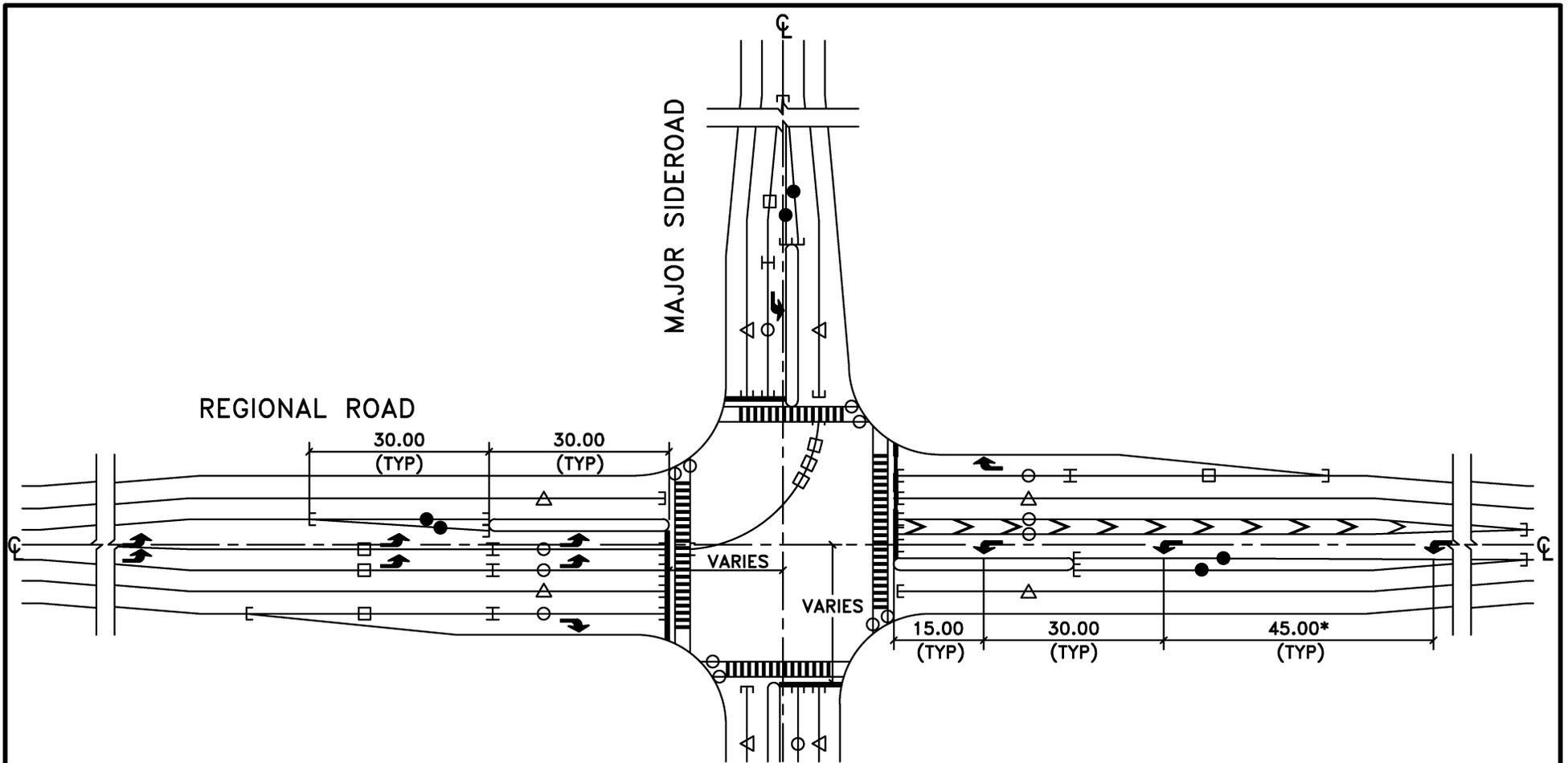
SCALE N.T.S.

REV.

X

X

DS-406



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. EDGE LINES ARE TO BE USED ONLY WHERE THERE IS NO CURB AND GUTTER.
- *4. 3RD TURN ARROW REQUIRES MIN. 2.5m LANE WIDTH.
5. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.



**Public Works
Transportation**

**TYPICAL PAVEMENT MARKINGS FOR
4 LANE "X" INTERSECTION
WITH MEDIAN ISLANDS
DOUBLE LEFT TURN LANE**

DATE: JANUARY 2023

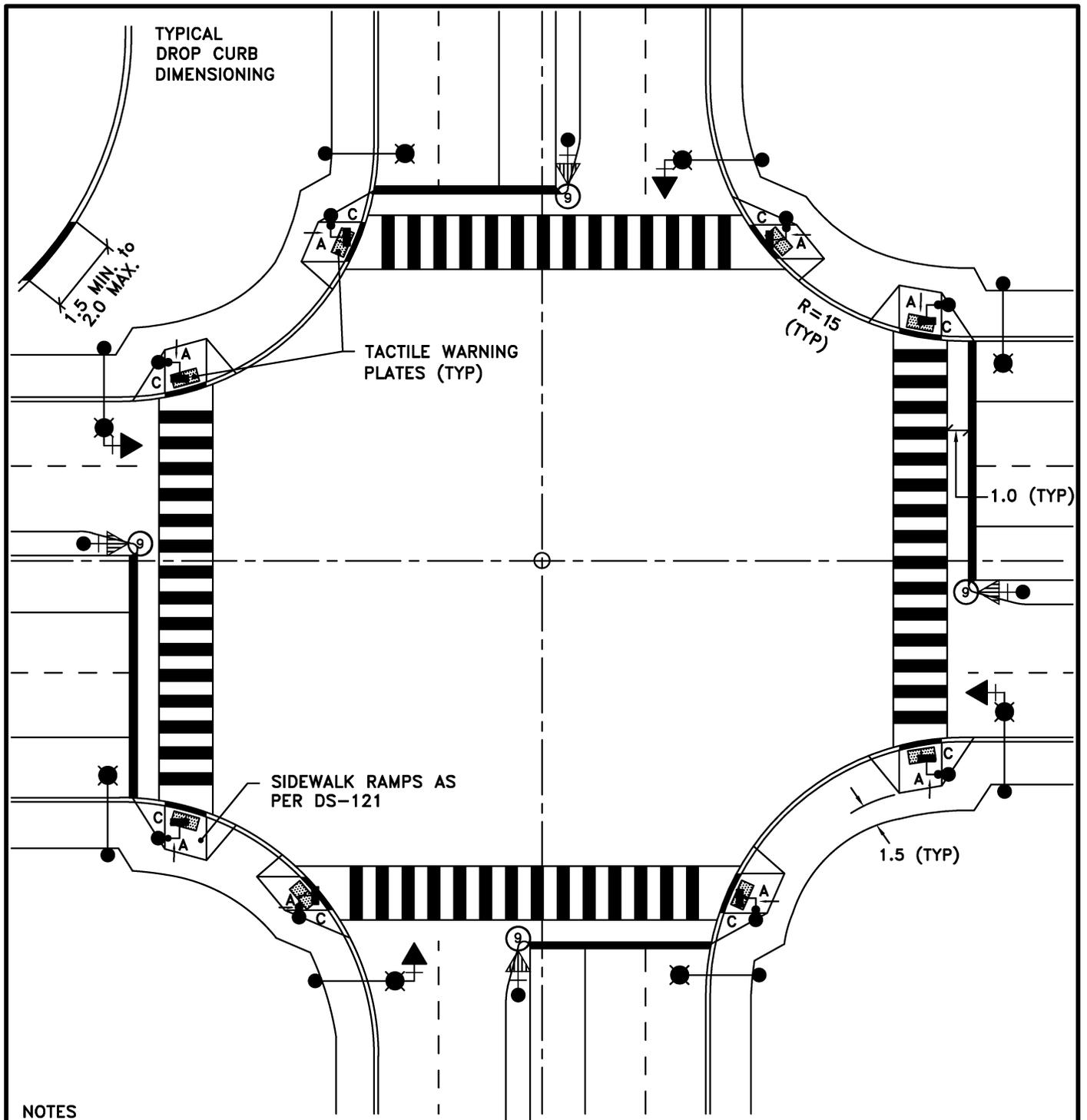
SCALE N.T.S.

REV.

X

X

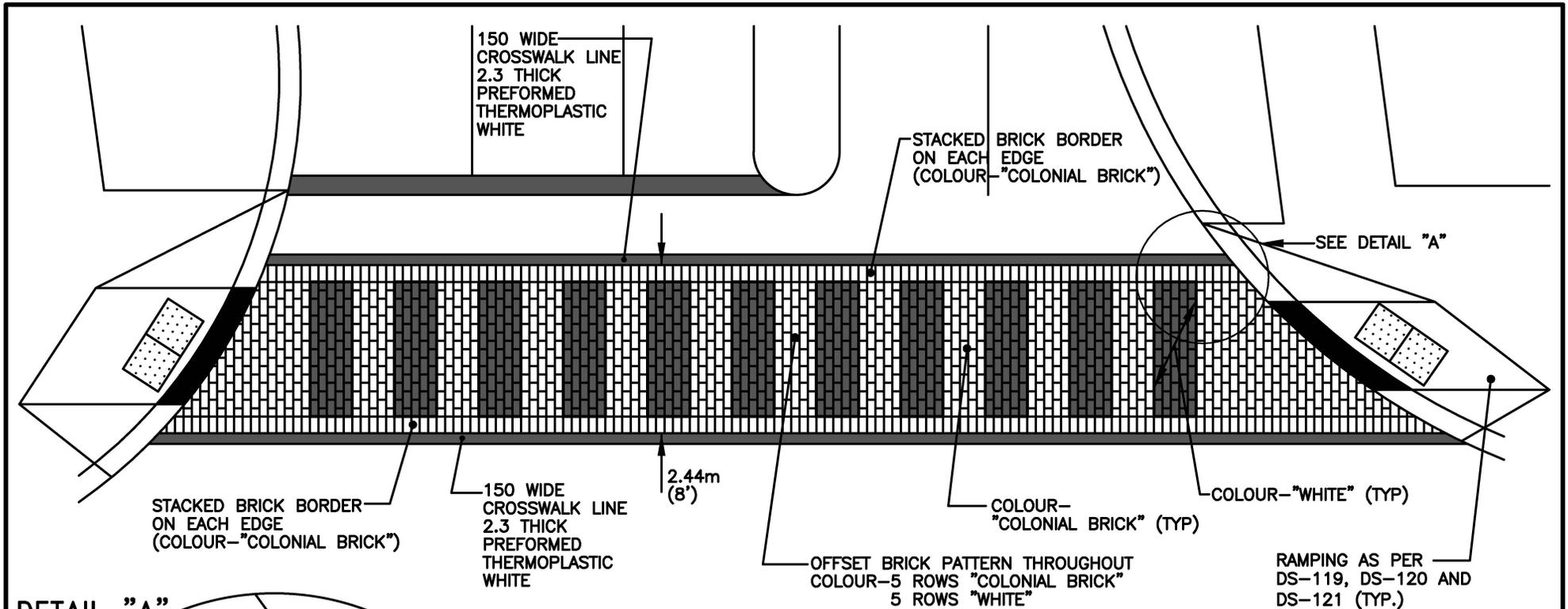
DS-407



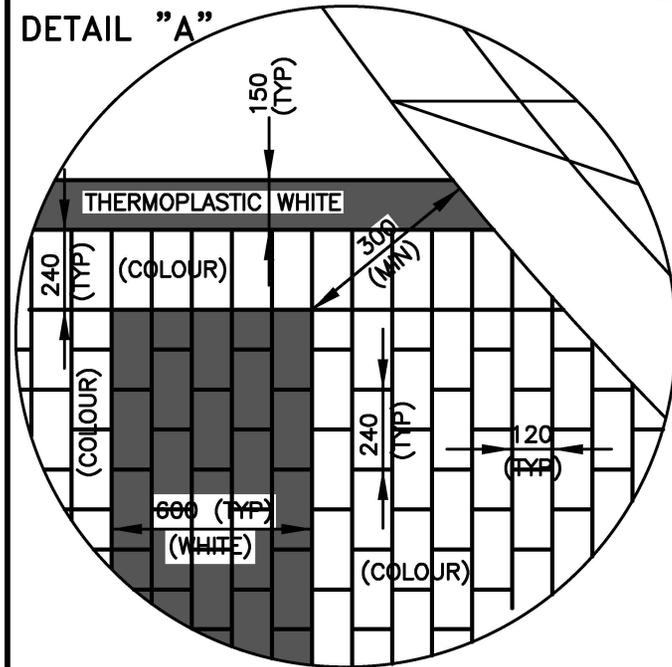
NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. SEE STANDARD DRAWING DS-119 FOR A MORE DETAILED CURB, PEDESTRIAN EQUIPMENT AND TACTILE PLATE LAYOUT
4. SEE STANDARD DRAWING DS-412 FOR TYPICAL ZEBRA PAVEMENT MARKING DETAIL.
5. DUE TO SLIPPAGE, THE FIRST STEP FROM THE CURB SHALL NOT LAND ON A ZEBRA BAR.
6. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.

		Public Works Transportation
AODA COMPLIANT TYPICAL PEDESTRIAN EQUIPMENT USING PEDESTRIAN SIGNAL POLES AND CROSSWALKS WITH TACTILE WARNING PLATES		
DATE:	JANUARY 2023	SCALE N.T.S.
REV.	X	X
		DS-408



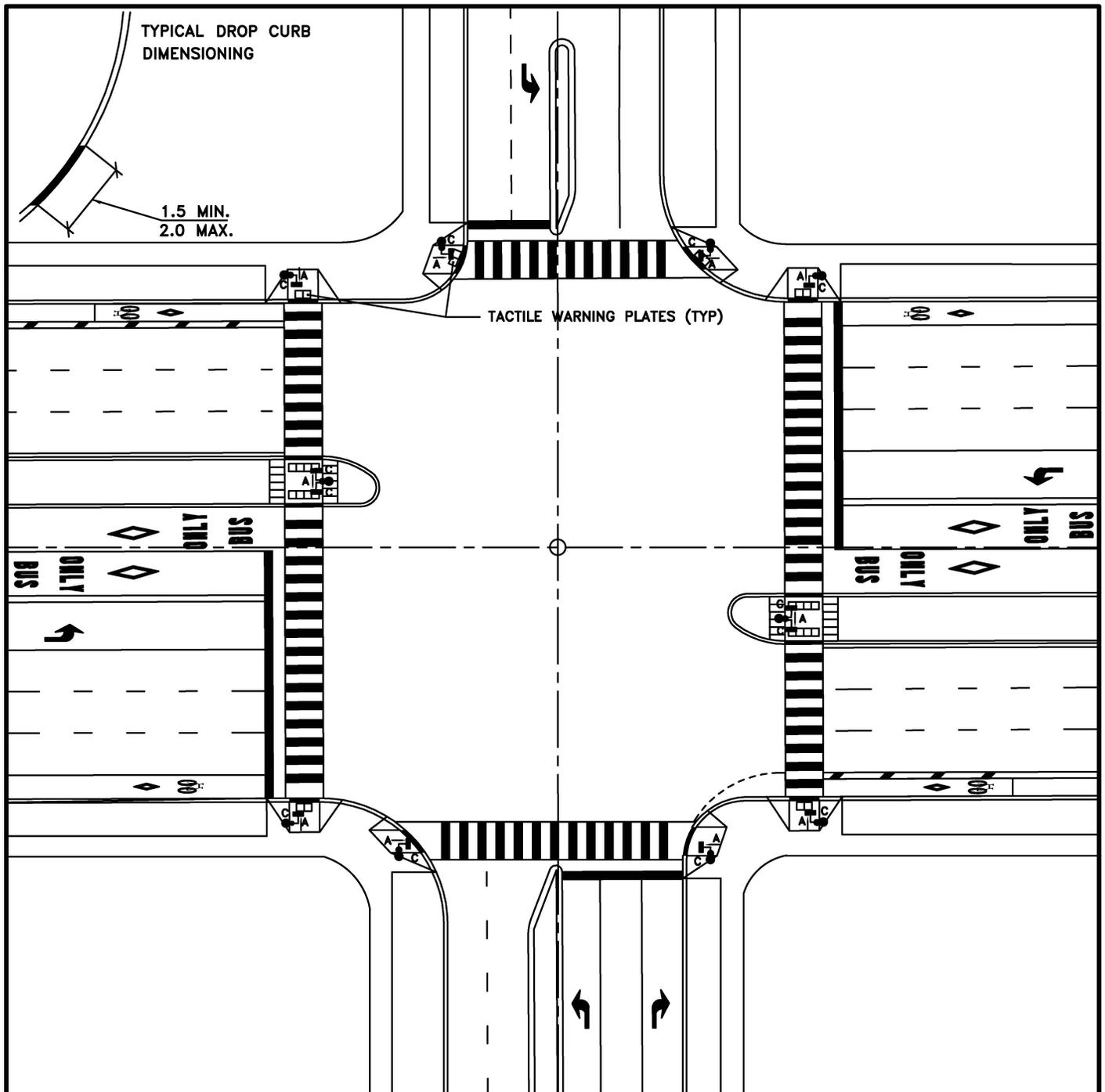
DETAIL "A"



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. NO WHITE BAR SHALL BE PLACED WITHIN 300mm OF THE RADIUS.
4. IN PLACE OF "COLONIAL RED", AN ALTERNATE COLOUR MAY BE SUBSTITUTED TO BETTER COORDINATE WITH THE PROPOSED ADJOINING STREETSCAPING WORK BEING DONE. (i.e. "FIELD GRAY", "SONOMA SAND" OR "SANTA FE CLAY")
5. SEE STD. DWG. DS-408 FOR TYPICAL CROSSWALK LAYOUT AT SIGNALIZED INTERSECTIONS.
6. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.

		Public Works Transportation
TYPICAL ZEBRA PAVEMENT MARKING DETAIL AT SIGNALIZED INTERSECTIONS USING AGGREGATE REINFORCED THERMOPLASTIC SYSTEM		
DATE:	JANUARY 2023	SCALE N.T.S.
REV.	X	X
		DS-409



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. SEE STANDARD DRAWING DS-119 FOR A MORE DETAILED CURB, PEDESTRIAN EQUIPMENT AND TACTILE PLATE LAYOUT
4. SEE STANDARD DRAWING DS-412 FOR TYPICAL ZEBRA PAVEMENT MARKING DETAIL.
5. DUE TO SLIPPAGE, THE FIRST STEP FROM THE CURB SHALL NOT LAND ON A ZEBRA BAR.
6. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.



**Public Works
Transportation**

**AODA COMPLIANT TYPICAL
PEDESTRIAN EQUIPMENT AND
TACTILE WARNING PLATES FOR
VIVA/RAPIDWAYS**

DATE: JANUARY 2023

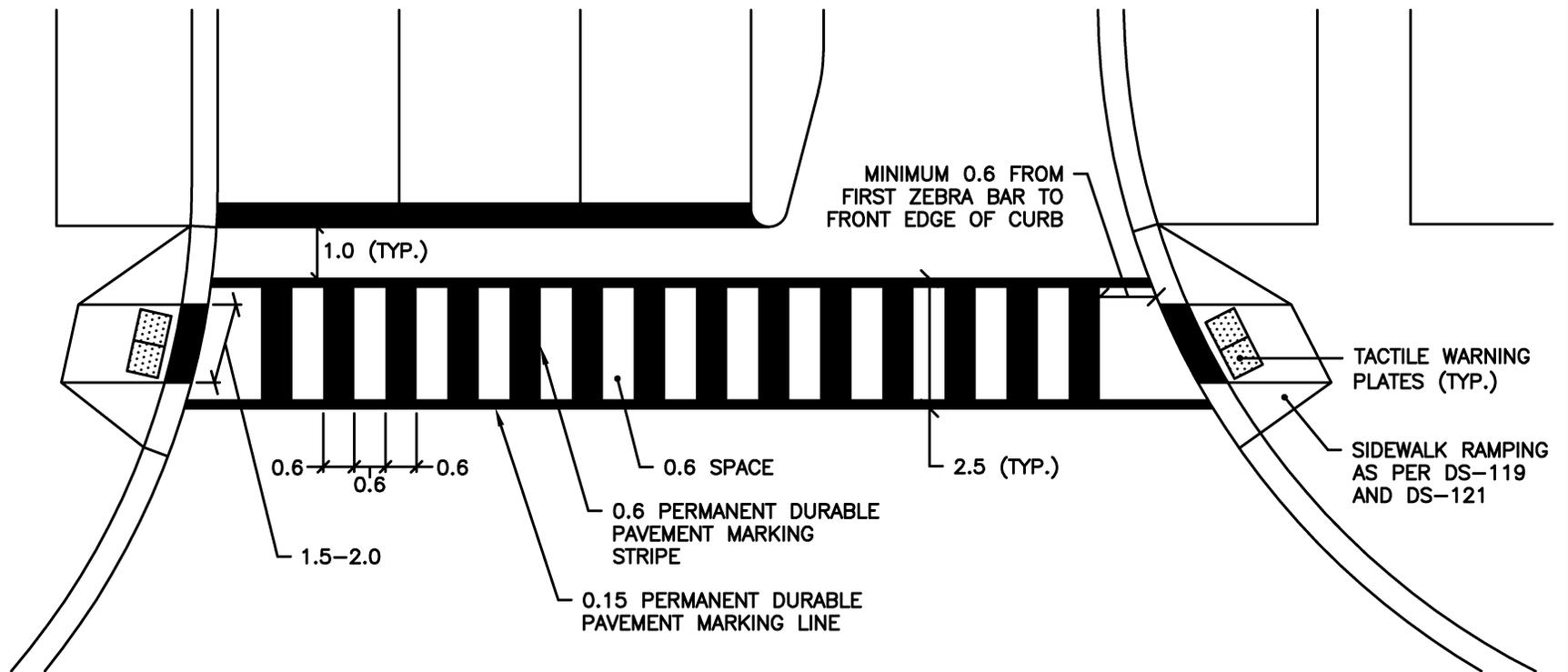
SCALE N.T.S.

REV.

X

X

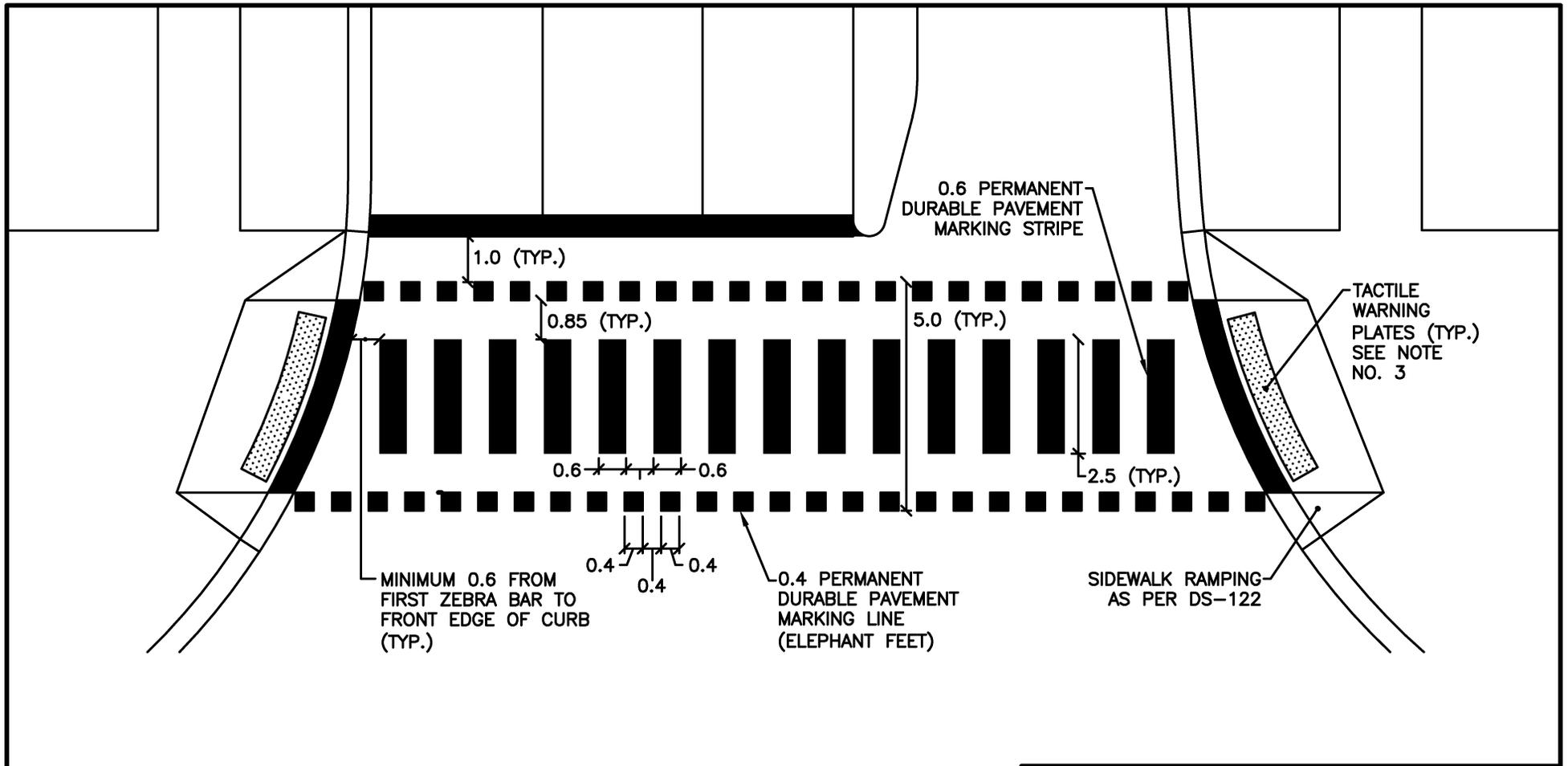
DS-411



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. SEE STANDARD DRAWING DS-400 FOR PAVEMENT MARKING LEGEND.
3. DUE TO SLIPPAGE, THE FIRST STEP FROM THE CURB SHALL NOT LAND ON A ZEBRA BAR.
4. CROSSWALK WIDTH CAN BE 3.0m AT HIGH PEDESTRIAN LOCATIONS, SCHOOL ZONES, RETIREMENT AREAS, ETC.
5. SEE STD. DWG. DS-408 FOR TYPICAL CROSSWALK LAYOUT AT SIGNALIZED INTERSECTIONS.
6. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.

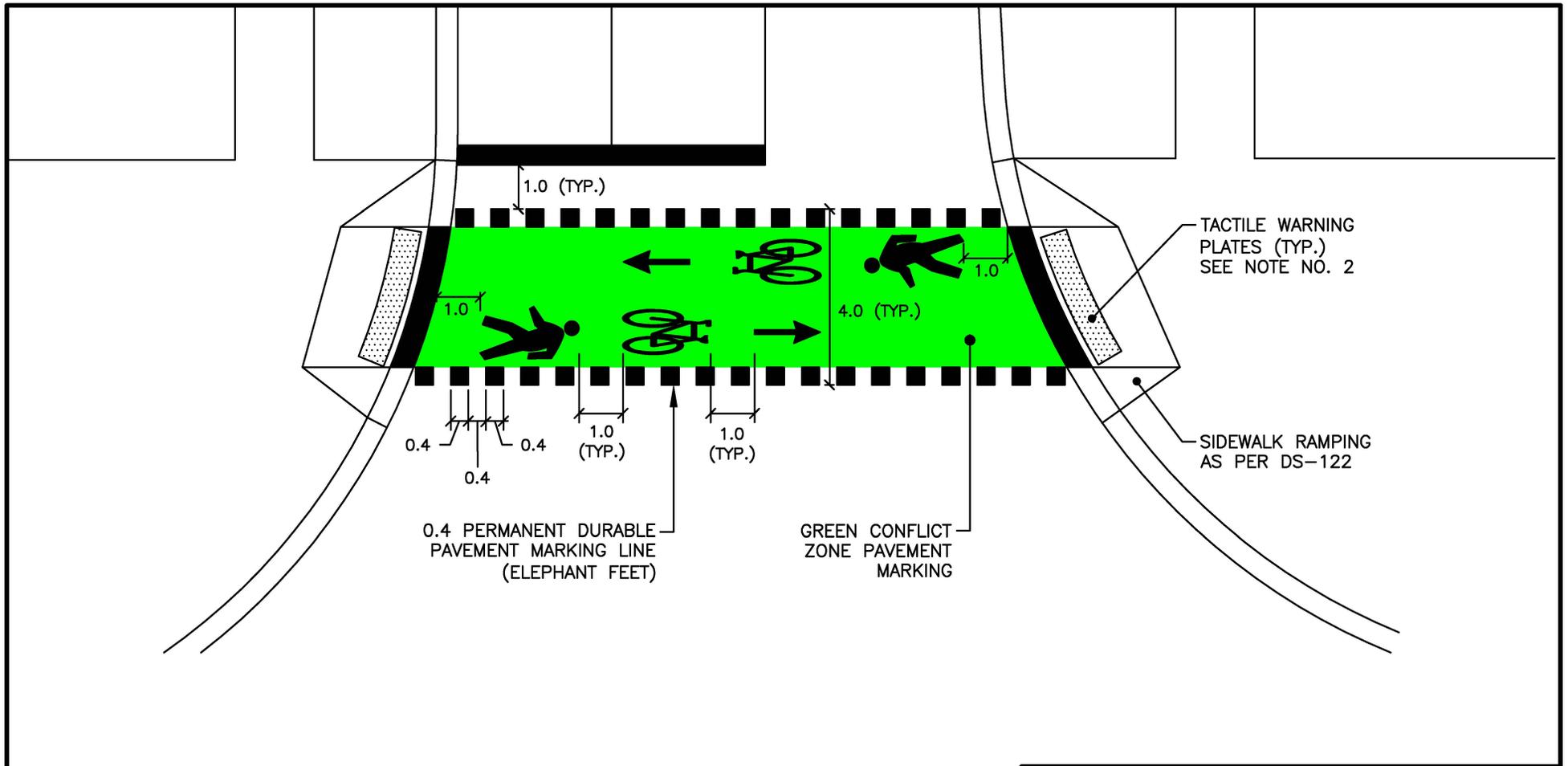
		Public Works Transportation
TYPICAL ZEBRA PAVEMENT MARKING DETAIL AT SIGNALIZED INTERSECTIONS		
DATE:	JANUARY 2023	SCALE N.T.S.
REV.		DS-412



NOTE:

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. DUE TO SLIPPAGE, THE FIRST STEP FROM THE CURB SHALL NOT LAND ON A ZEBRA BAR.
3. RADIAL TACTILE PLATES OR TACTILE WEDGES SHALL BE USED TO ELIMINATE GAPS BETWEEN EACH TACTILE PLATE ALONG THE DROPPED CURB.
4. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.

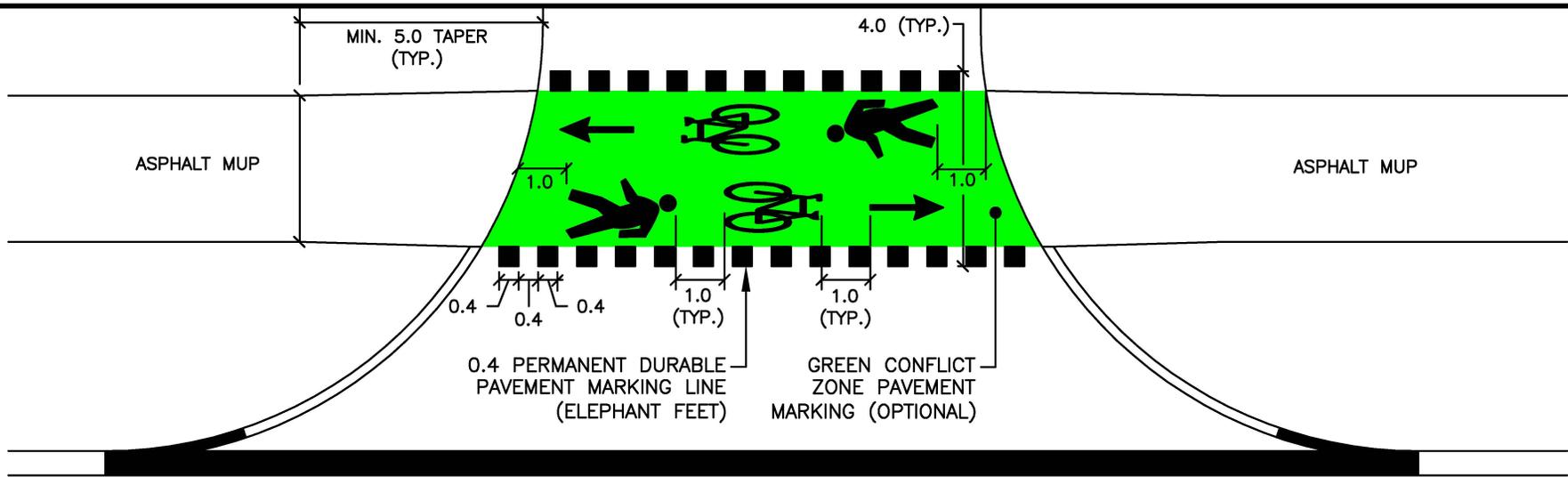
Public Works Transportation	
TYPICAL CROSSROAD PAVEMENT MARKING DETAIL AT SIGNALIZED INTERSECTIONS	
DATE: JANUARY 2023	SCALE N.T.S.
REV.	DS-413



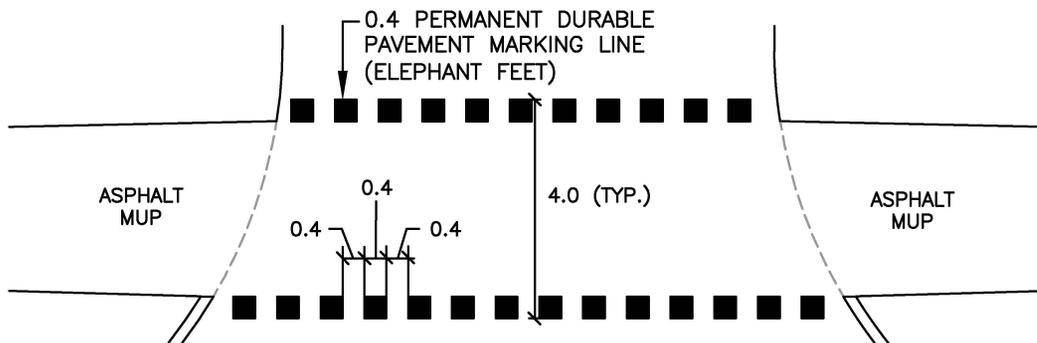
NOTES:

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. RADIAL TACTILE PLATES OR TACTILE WEDGES SHALL BE USED TO ELIMINATE GAPS BETWEEN EACH TACTILE PLATE ALONG THE DROPPED CURB.
3. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.

Public Works Transportation		
<p>TYPICAL CROSSRIDE PAVEMENT MARKING DETAIL AT UNSIGNALIZED INTERSECTIONS</p>		
DATE:	JANUARY 2023	SCALE N.T.S.
REV.		DS-414



COMMERCIAL/INDUSTRIAL DRIVEWAY (HIGH VOLUME)

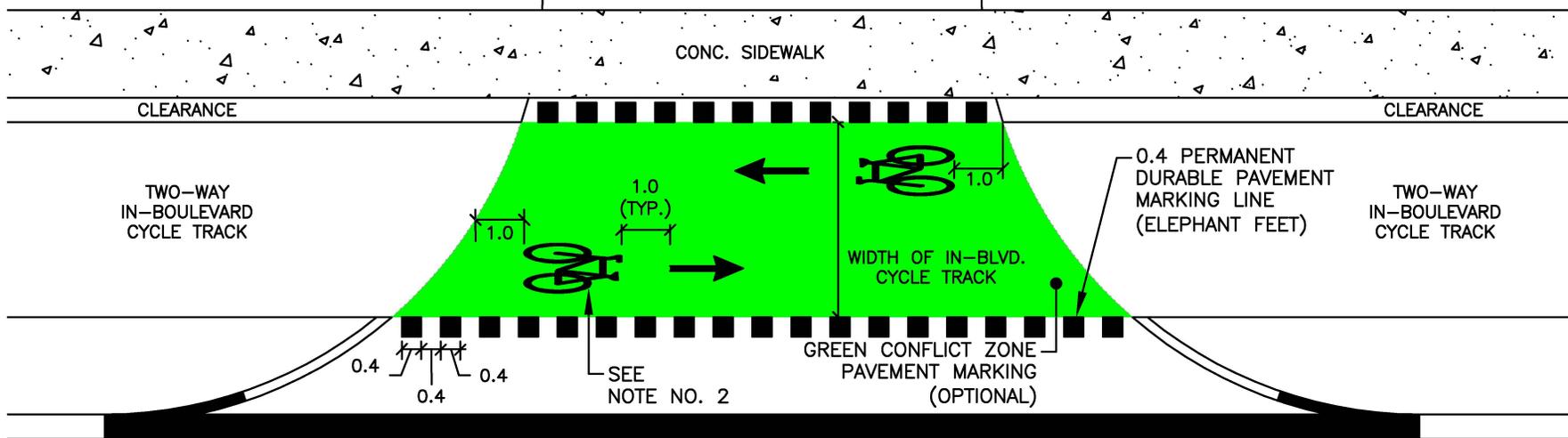


**MULTI-FAMILY RESIDENTIAL OR
COMMERCIAL/INDUSTRIAL DRIVEWAY (LOW VOLUME)**

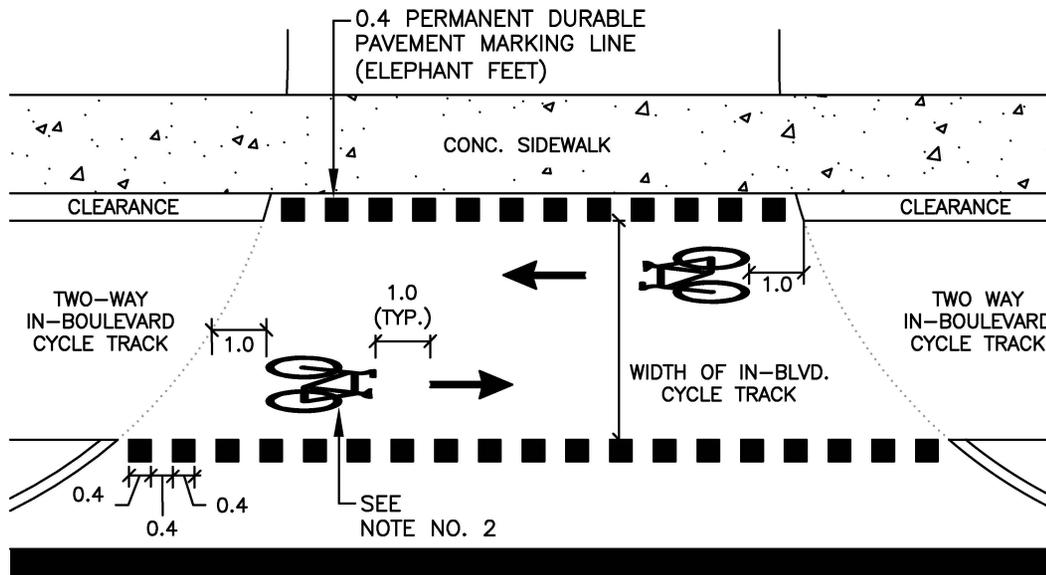
NOTES:

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. FOR SINGLE FAMILY DRIVEWAY, FACILITIES SHOULD BE CARRIED THROUGH THE DRIVEWAY WITH NO PAVEMENT MARKINGS.
3. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.

		Public Works Transportation
TYPICAL CROSSRIDE PAVEMENT MARKING DETAIL AT DRIVEWAY WITH MULTI-USE PATH CROSSING		
DATE:	JANUARY 2023	SCALE N.T.S.
REV.		DS-415



COMMERCIAL/INDUSTRIAL DRIVEWAY (HIGH VOLUME)



MULTI-FAMILY RESIDENTIAL OR COMMERCIAL/INDUSTRIAL DRIVEWAY (LOW VOLUME)

NOTES:

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. FOR ONE-WAY IN-BOULEVARD CYCLE TRACK, ONLY ONE BICYCLE SYMBOL AND ONE DIRECTION ARROW ARE REQUIRED.
3. FOR SINGLE FAMILY DRIVEWAY, FACILITIES SHOULD BE CARRIED THROUGH THE DRIVEWAY WITH NO PAVEMENT MARKINGS.
4. THIS STANDARD IS TO BE USED AS A GUIDE ONLY AND WILL REQUIRE ADJUSTMENTS TO SUIT FIELD CONDITIONS.



**Public Works
Transportation**

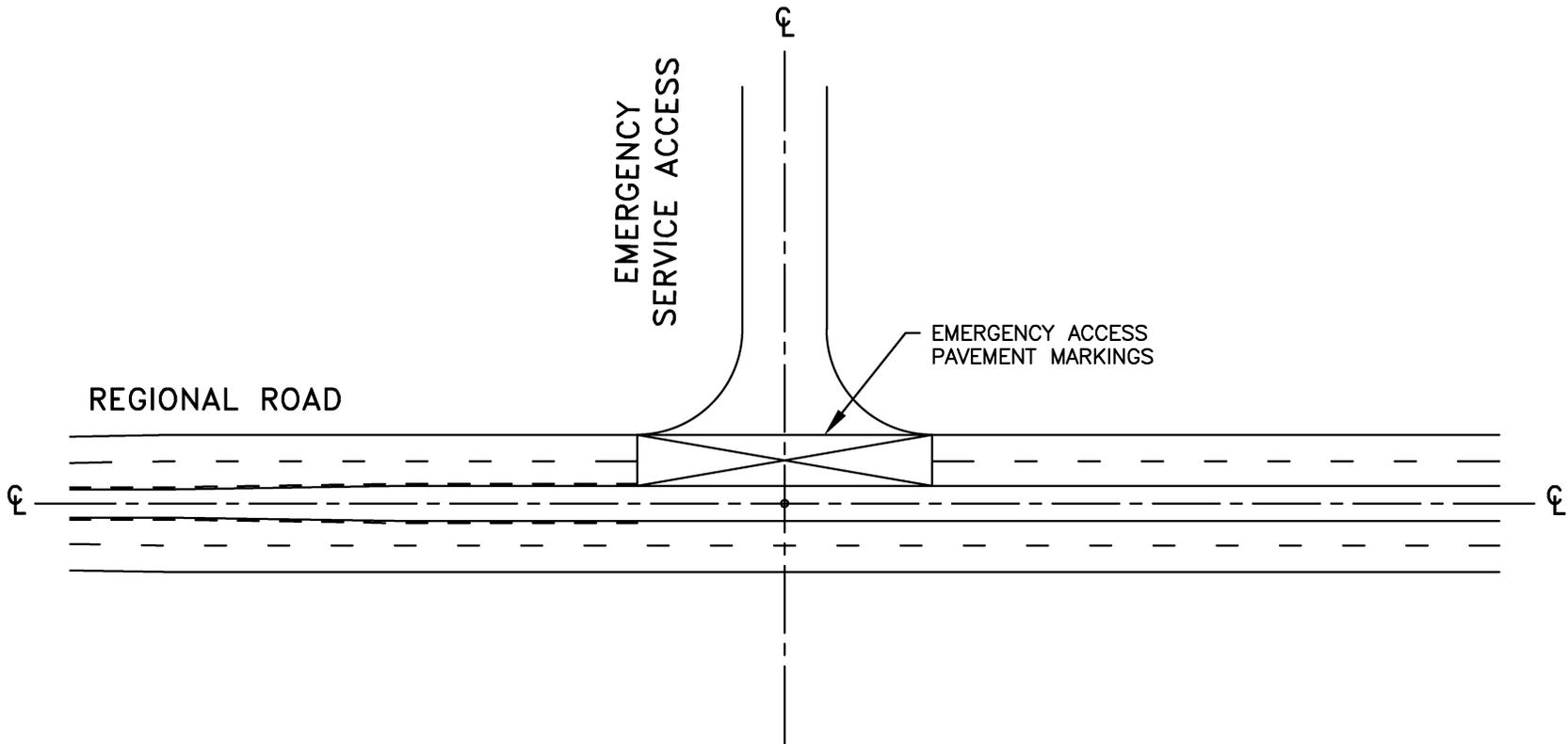
TYPICAL CROSSRIDE PAVEMENT
MARKING DETAIL AT
DRIVEWAY WITH IN-BOULEVARD
CYCLE TRACK CROSSING

DATE: JANUARY 2023

SCALE N.T.S.

REV.

DS-416



NOTES

1. ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.
2. EMERGENCY SERVICE ACCESS PAVEMENT MARKINGS SHALL BE DURABLE IN ORDER TO WITHSTAND WEAR OF DAILY COMMUTERS.
3. ALL EMERGENCY SERVICE ACCESS PAVEMENT MARKINGS SHALL BE 0.1m WIDE SOLID YELLOW DURABLE PAVEMENT MARKING UNLESS OTHERWISE STATED.



**Public Works
Transportation**

**PAVEMENT MARKINGS
FOR EMERGENCY SERVICE ACCESS**

DATE: JANUARY 2023

SCALE N.T.S.

REV.

X

X

DS-420