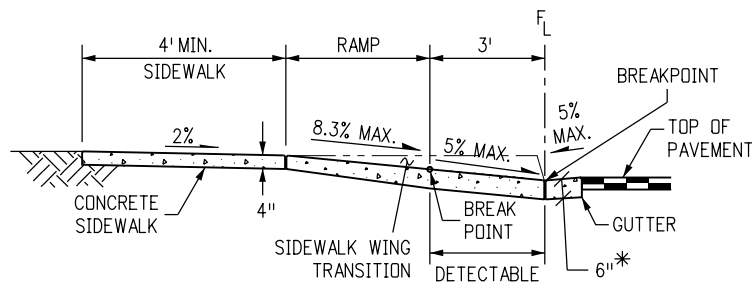
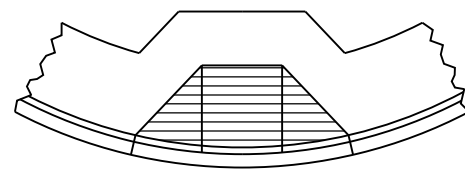


CURB RAMP TYPE 1A



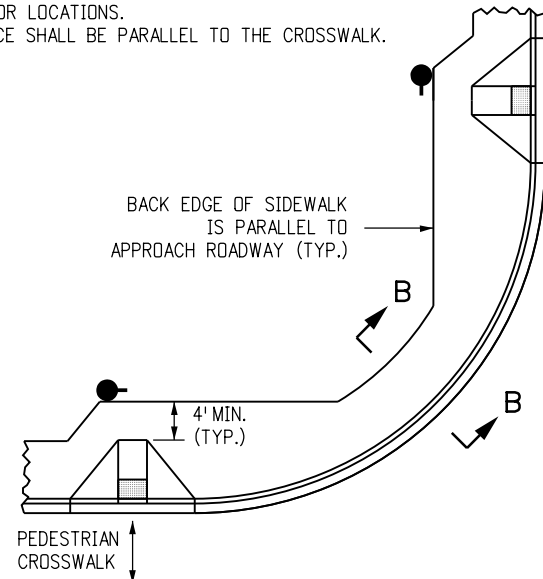
SECTION A-A

(PPBPA NOT SHOWN IN SECTION VIEWS AS IT MAY NOT BE REQUIRED.)



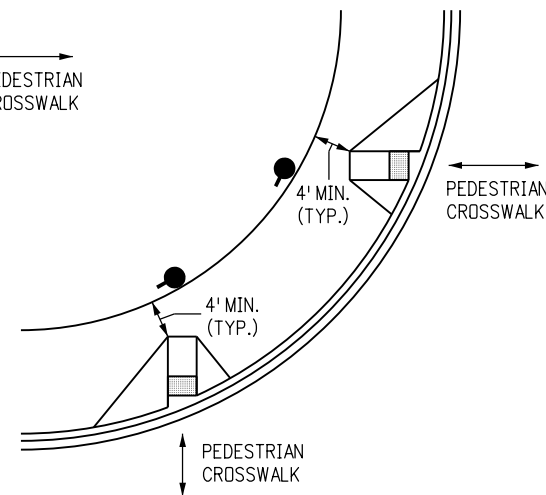
RAMP PAY AREA
FOR CURB RAMPS
TYPES 1A AND 1B

● - PEDESTRIAN PUSH BUTTON POST ASSEMBLY (PPBPA).
SEE NOTE 8.
SEE STANDARD PLAN S-614-9 FOR PPBPA DETAILS.
SEE PLANS FOR LOCATIONS.
THE SIGN FACE SHALL BE PARALLEL TO THE CROSSWALK.



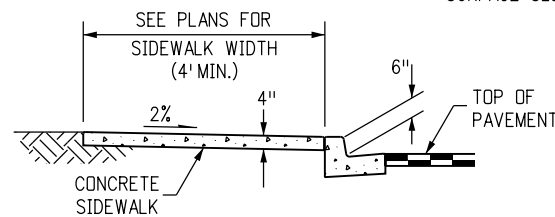
CURB RAMP TYPE 1B

SEE NOTE 11



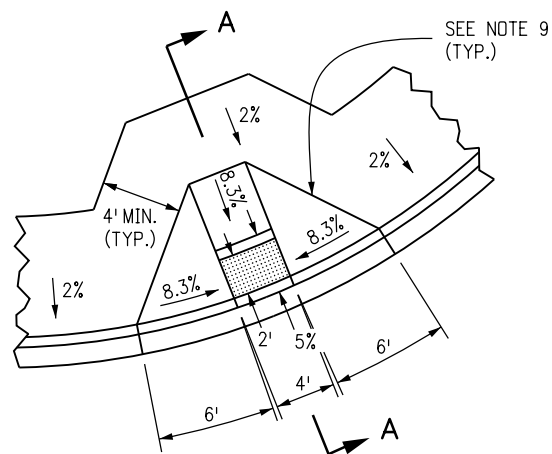
CURB RAMP TYPE 1B MODIFIED

USE ONLY IF EXISTING ROW DICTATES.
GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE
OF THE RAMP RUNS AND TURNING SPACES.
SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
SEE NOTE 11.

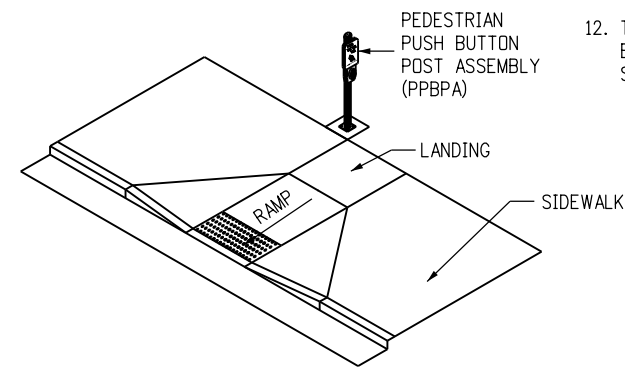


SECTION B-B

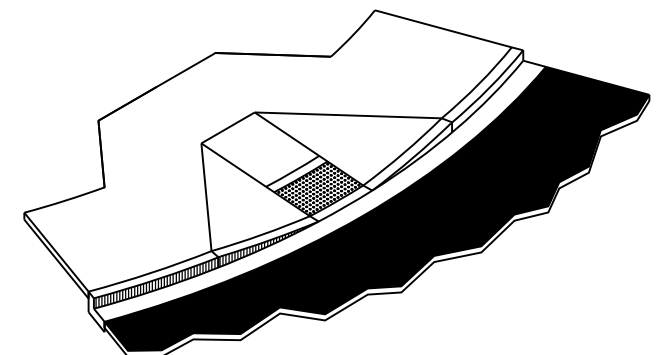
* INCREASES TO 8" FOR BRICK PAVERS.



RAMP DETAIL
FOR CURB RAMP
TYPE 1B



**CURB RAMP WITH
PEDESTRIAN PUSH BUTTON POST**



ISOMETRIC VIEW

GENERAL NOTES

1. THE DETECTABLE WARNINGS SHALL BE INSTALLED AT SIDEWALK TO STREET TRANSITIONS. THEY SHALL HAVE A TRUNCATED DOME SURFACE. THE DOMES SHALL BE IN A SQUARE GRID PATTERN.
2. ALL DETECTABLE WARNING AREAS SHALL START A MINIMUM OF 6 IN. FROM THE FLOW LINE OF THE CURB AND NOT BE MORE THAN A MAXIMUM OF 8 IN. (WITH EXCEPTION FOR THE TYPE 1B MODIFIED AND TYPE 3B MODIFIED AS THIS DIMENSION MAY BE GREATER THAN 8 INCHES ON ONE SIDE OF THE RADIUS) FROM ANY POINT ON THE FLOW LINE OF THE CURB. ALL DETECTABLE WARNING AREAS SHALL BE 2 FT. IN LENGTH AND COVER THE COMPLETE WIDTH OF THE RAMP AREA ONLY.
3. RAMP SLOPES SHALL BE 8.3% OR FLATTER. THE DETECTABLE WARNING SLOPES SHALL BE 5% OR FLATTER.
4. MINIMUM SIDEWALK WIDTH IS 4 FT.
5. DO NOT INSTALL DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, JUNCTION BOXES, AND OTHER OBSTRUCTIONS IN FRONT OF THE RAMP ACCESS AREAS.
6. CONSTRUCTION OF THE CONCRETE PEDESTRIAN CURB ADJACENT TO THE RAMP AREAS SHALL BE INCLUDED IN THE BID PRICE OF THE CONCRETE CURB RAMP.
7. DETECTABLE WARNINGS SHALL MEET SECTION 705 OF THE USDOT ADA STANDARDS FOR TRANSPORTATION FACILITIES.
8. IF THE PLACEMENT OF A PEDESTRIAN PUSH BUTTON ASSEMBLY ON A TRAFFIC SIGNAL MAST POLE WILL NOT BE WITHIN EASY REACH (10" OR LESS AND UNOBSTRUCTED) OF PEDESTRIANS (IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT), THEN A SEPERATE PEDESTRIAN PUSH BUTTON POST ASSEMBLY (PPBPA) SHALL BE INSTALLED WITHIN EASY REACH. THE PPBPA SHALL MEET THE PROVISIONS FOUND IN "SECTION 4E.08 THROUGH 4E.13 - PEDESTRIAN DETECTORS" OF THE 2009 MUTCD MANUAL WITH REVISIONS 1 AND 2.
9. WHERE SPACE IS LIMITED OR GRADE IS AN ISSUE, A 10% SLOPE MAY BE USED ON FLARED SIDES.
10. THE SLOPES CAN BE LOWER THAN WHAT IS SHOWN BUT THEY SHALL NOT EXCEED THESE VALUES.
11. CURB RAMP TYPE 1A DIAGONAL (ON THE APEX) IS UNACCEPTABLE IN NEW CONSTRUCTION. TYPICALLY, TWO CURB RAMPS AS IN TYPE 1B, MUST BE PROVIDED AT EACH STREET CORNER. ADA TITLE II 28 C.F.R. SECTION 35.151(B) STATES:
ALTERATIONS HAVE TO BE MADE READILY ACCESSIBLE, WITHIN THE IMPACTING PROJECT, TO THE MAXIMUM EXTENT FEASIBLE (MEF).
THEREFORE, A SINGLE, DIAGONAL CURB RAMP TYPE 1A WILL ONLY BE PERMITTED ON ALTERATION PROJECTS WITH MEF JUSTIFICATION DOCUMENTATION IN ACCORDANCE TO CDOT PROCEDURAL DIRECTIVE 605.1 AND IN COORDINATION WITH THE ADA TITLE II COORDINATOR.
12. THE CURB RAMP (EXCLUDING ANY FLARED SIDES) OR BLENDED TRANSITION SHALL BE CONTAINED WHOLLY WITHIN THE WIDTH OF THE CROSSWALK AND/OR PEDESTRIAN STREET CROSSING THE RAMP SERVES.

Computer File Information

Creation Date: 07/04/12	Initials: DLM
Last Modification Date: 05/06/14	Initials: LTA
Full Path: www.coloradodot.info/business/designsupport	(R-X)
Drawing File Name: 608010107.dgn	(R-X)
CAD Ver.: MicroStation V8	(R-X)
Scale: Not to Scale	Units: English

Sheet Revisions

Date:	Comments

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Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820

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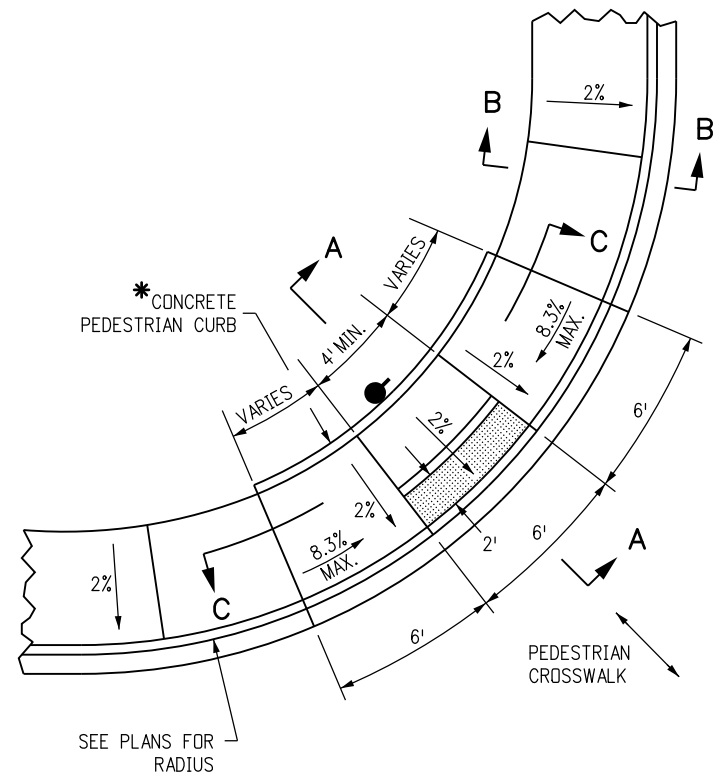
CURB RAMPS

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STANDARD PLAN NO.

M-608-1

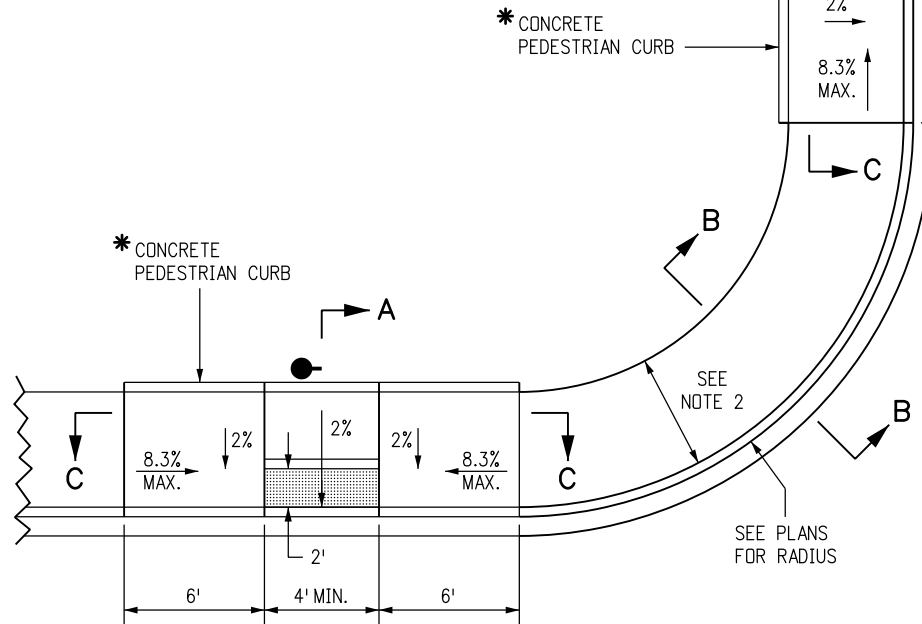
Sheet No. 1 of 7



CURB RAMP TYPE 2A

SEE NOTE 3.

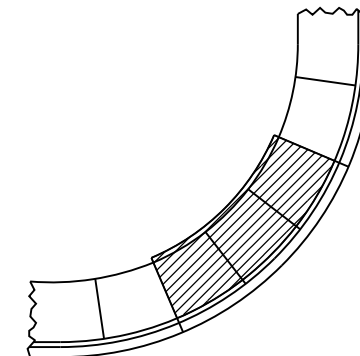
● - PEDESTRIAN PUSH BUTTON POST ASSEMBLY (PPBPA).
SEE NOTE 8 ON SHEET 1 OF 7.
SEE STANDARD PLAN S-614-9 FOR PPBPA DETAILS.
SEE PLANS FOR LOCATIONS.
THE SIGN FACE SHALL BE PARALLEL TO THE CROSSWALK.



CURB RAMP TYPE 2B

SEE NOTE 3.

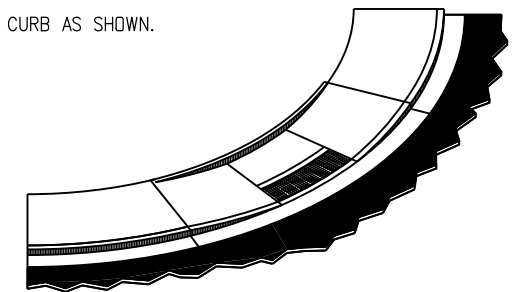
- NOTES**
1. CURB RAMP TYPE 2A MAY BE USED IN MID-BLOCK.
 2. SEE PLANS FOR SIDEWALK WIDTH. THE MINIMUM SIDEWALK WIDTH IS 4 FT.
 3. CURB RAMP TYPE 2A DIAGONAL (ON THE APEX) IS UNACCEPTABLE IN NEW CONSTRUCTION. TYPICALLY, TWO CURB RAMPS AS IN TYPE 2B, MUST BE PROVIDED AT EACH STREET CORNER.
ADA TITLE II 28 C.F.R. SECTION 35.151(B) STATES:
ALTERATIONS HAVE TO BE MADE READILY ACCESSIBLE, WITHIN THE IMPACTING PROJECT, TO THE MAXIMUM EXTENT FEASIBLE (MEF).
THEREFORE, A SINGLE, DIAGONAL CURB RAMP TYPE 2A WILL ONLY BE PERMITTED ON ALTERATION PROJECTS WITH MEF JUSTIFICATION DOCUMENTATION IN ACCORDANCE TO CDOT PROCEDURAL DIRECTIVE 605.1 AND IN COORDINATION WITH THE ADA TITLE II COORDINATOR.



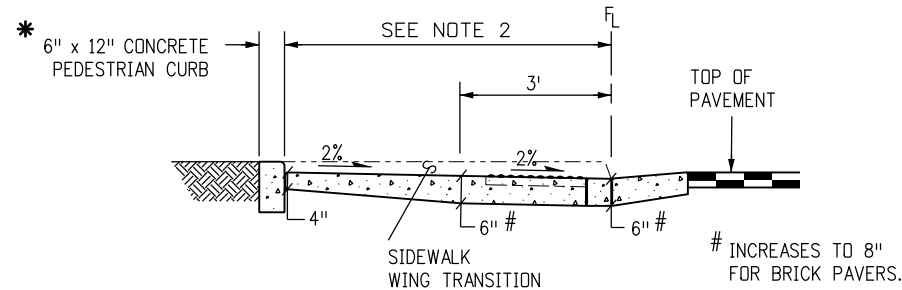
RAMP PAY AREA

FOR CURB RAMP TYPES 2A AND 2B.

* INCLUDES CONCRETE PEDESTRIAN CURB AS SHOWN.

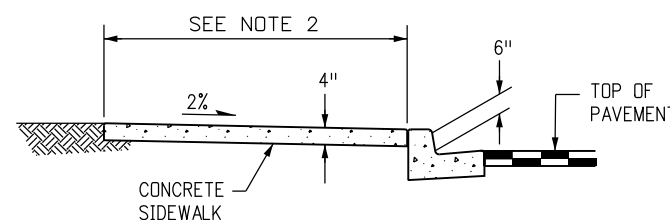


ISOMETRIC VIEW

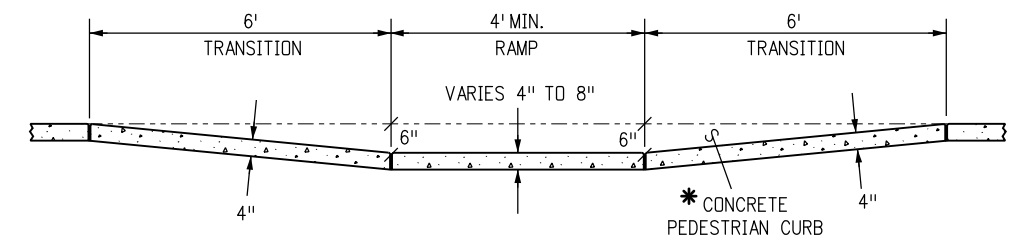


SECTION A-A

(PPBPA NOT SHOWN IN SECTION VIEWS AS IT MAY NOT BE REQUIRED.)



SECTION B-B



SECTION C-C

Computer File Information

Creation Date: 07/04/12	Initials: DLM
Last Modification Date: 04/28/14	Initials: LTA
Full Path: www.coloradodot.info/business/designsupport	
Drawing File Name: 608010207.dgn	
CAD Ver.: MicroStation V8	Scale: Not to Scale Units: English

Sheet Revisions

Date:	Comments
04/22/14	Made ramps perpendicular in 2B. Added note 3.

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Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820

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CURB RAMPS

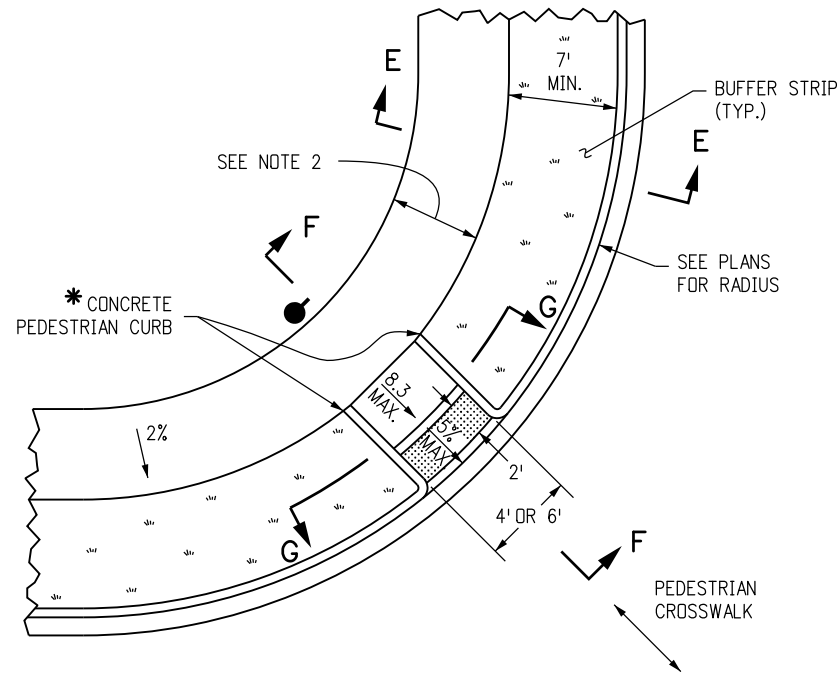
Issued By: Project Development Branch on July 4, 2012

STANDARD PLAN NO.

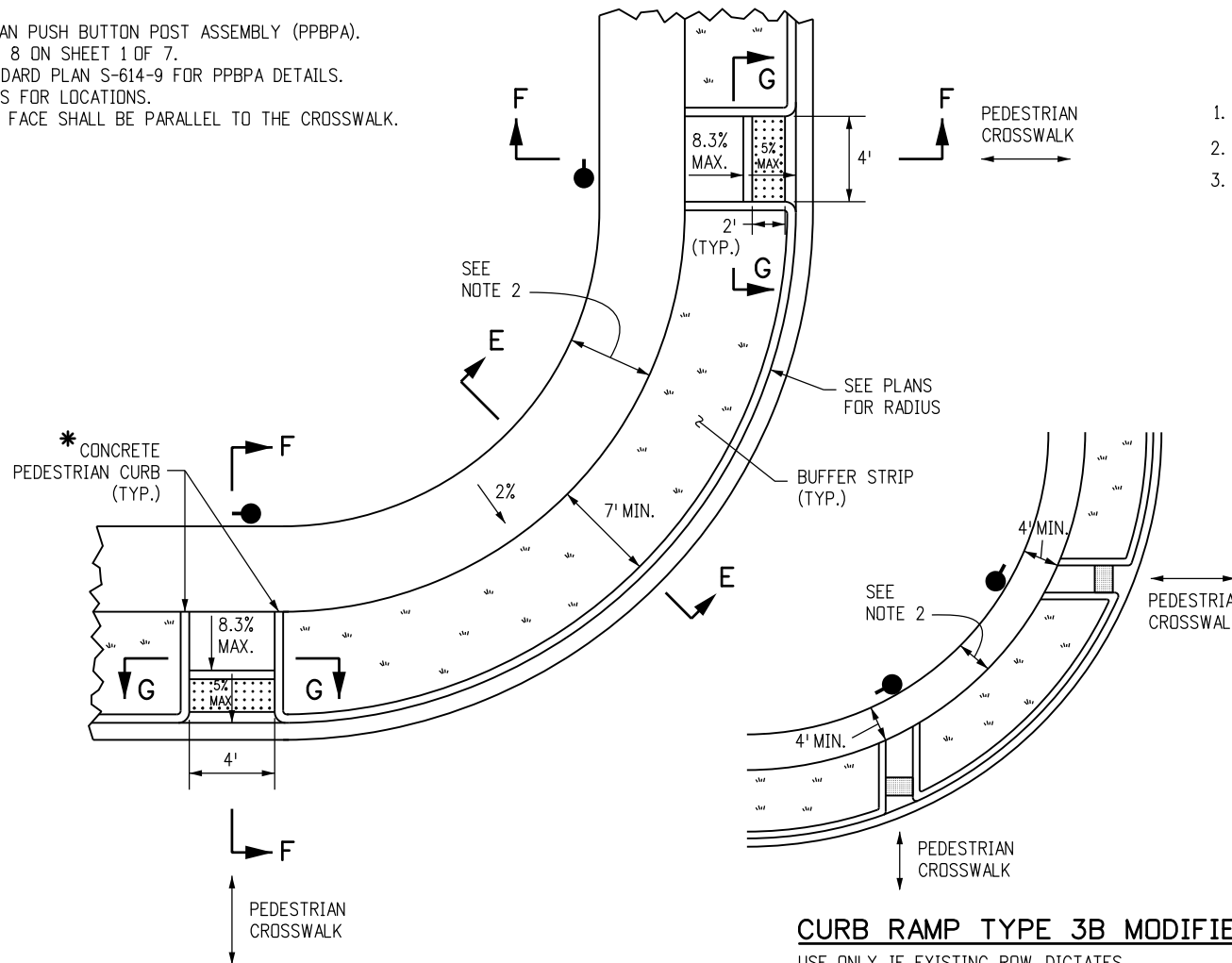
M-608-1

Sheet No. 2 of 7

● - PEDESTRIAN PUSH BUTTON POST ASSEMBLY (PPBPA).
 SEE NOTE 8 ON SHEET 1 OF 7.
 SEE STANDARD PLAN S-614-9 FOR PPBPA DETAILS.
 SEE PLANS FOR LOCATIONS.
 THE SIGN FACE SHALL BE PARALLEL TO THE CROSSWALK.



CURB RAMP TYPE 3A
 SEE NOTE 3.

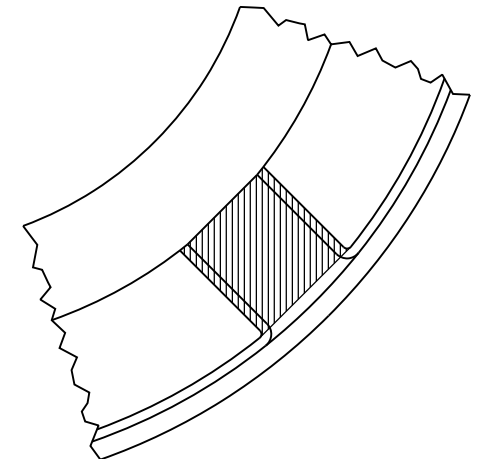


CURB RAMP TYPE 3B
 SEE NOTE 3.

CURB RAMP TYPE 3B MODIFIED

USE ONLY IF EXISTING ROW DICTATES.
 GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF THE RAMP RUNS AND TURNING SPACES.
 SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH. SEE NOTE 3.

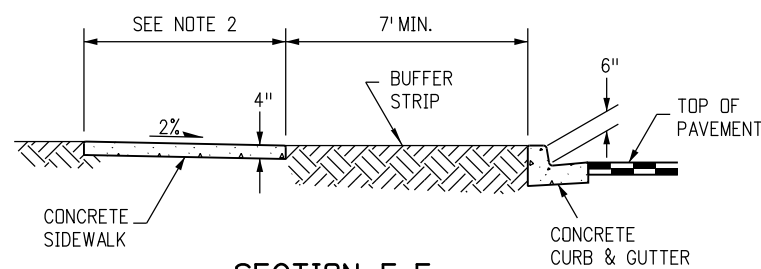
- NOTES**
- CURB RAMP TYPE 3A MAY BE USED IN MID-BLOCK.
 - SEE PLANS FOR SIDEWALK WIDTH. THE MINIMUM SIDEWALK WIDTH IS 4 FT.
 - CURB RAMP TYPE 3A DIAGONAL (ON THE APEX) IS UNACCEPTABLE IN NEW CONSTRUCTION. TYPICALLY, TWO CURB RAMPS AS IN TYPE 3B, MUST BE PROVIDED AT EACH STREET CORNER.
 ADA TITLE II 28 C.F.R. SECTION 35.151(B) STATES:
 ALTERATIONS HAVE TO BE MADE READILY ACCESSIBLE, WITHIN THE IMPACTING PROJECT, TO THE MAXIMUM EXTENT FEASIBLE (MEF).
 THEREFORE, A SINGLE, DIAGONAL CURB RAMP TYPE 3A WILL ONLY BE PERMITTED ON ALTERATION PROJECTS WITH MEF JUSTIFICATION DOCUMENTATION IN ACCORDANCE TO CDOT PROCEDURAL DIRECTIVE 605.1 AND IN COORDINATION WITH THE ADA TITLE II COORDINATOR.



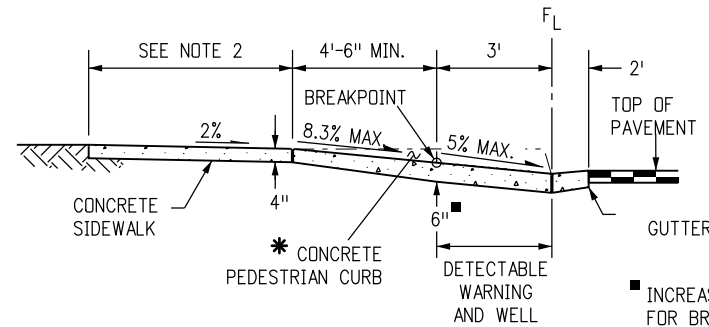
RAMP PAY AREA

FOR CURB RAMP TYPES 3A AND 3B.

* INCLUDES CONCRETE PEDESTRIAN CURB AS SHOWN.

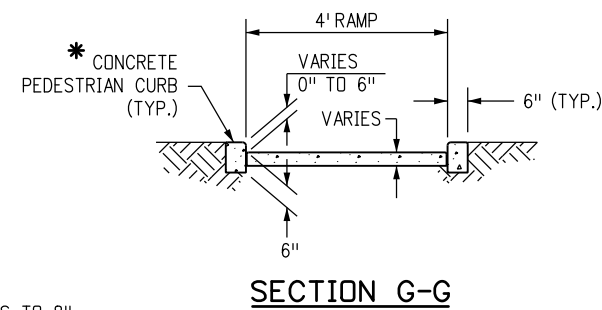


SECTION E-E

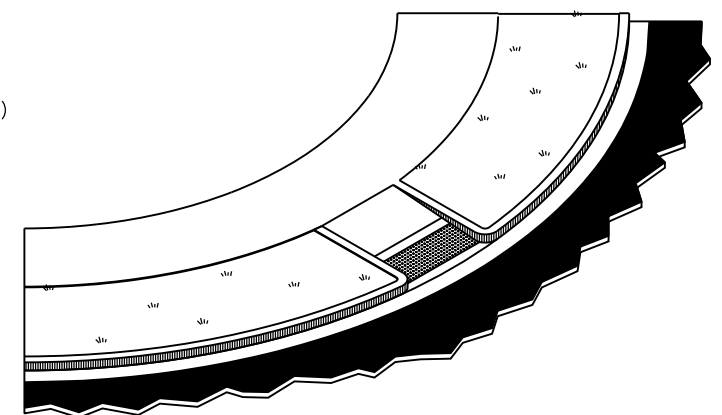


SECTION F-F

(PPBPA NOT SHOWN IN SECTION VIEWS AS IT MAY NOT BE REQUIRED.)



SECTION G-G



ISOMETRIC VIEW

Computer File Information

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Last Modification Date: 04/28/14	Initials: LTA
Full Path: www.coloradodot.info/business/designsupport	(R-X)
Drawing File Name: 608010307.dgn	(R-X)
CAD Ver.: MicroStation V8	(R-X)
Scale: Not to Scale	
Units: English	

Sheet Revisions

Date:	Comments

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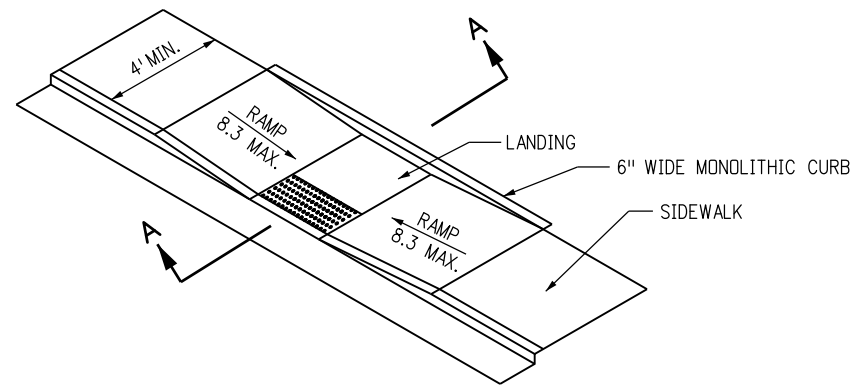
CURB RAMPS

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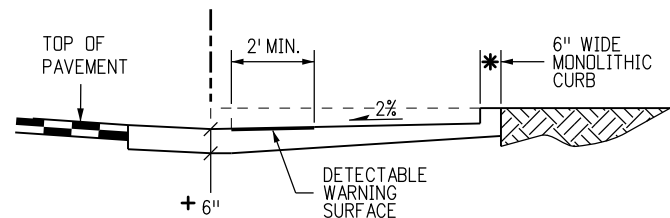
STANDARD PLAN NO.

M-608-1

Sheet No. 3 of 7



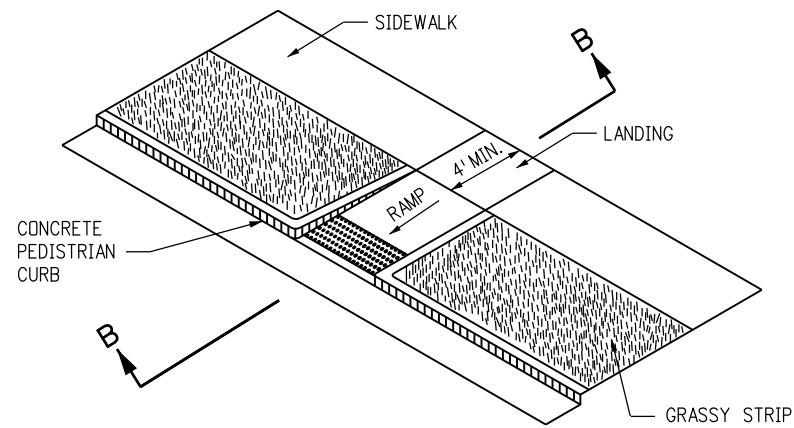
PARALLEL CURB RAMP WITHIN 4 FT. MIN. SIDEWALK



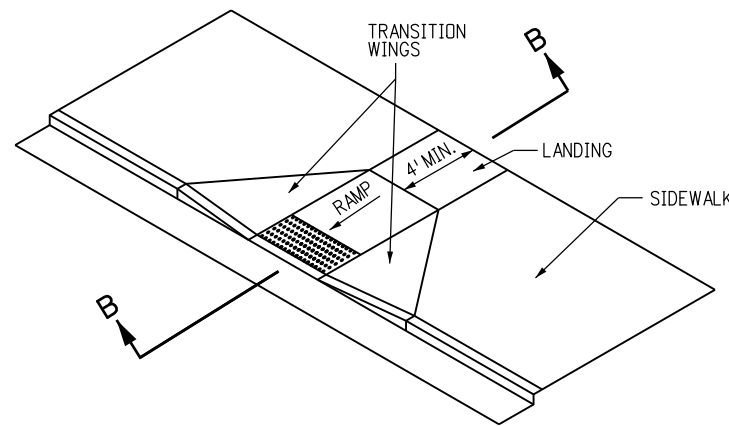
+ INCREASES TO 8" FOR BRICK PAVERS.

* INCLUDES CONCRETE PEDESTRIAN CURB AS SHOWN.

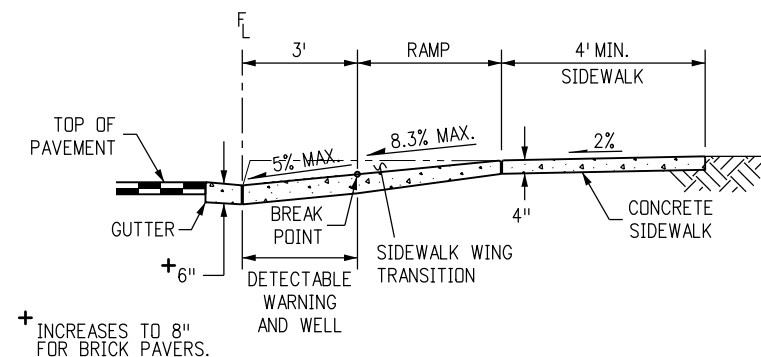
SECTION A-A



PERPENDICULAR CURB RAMP

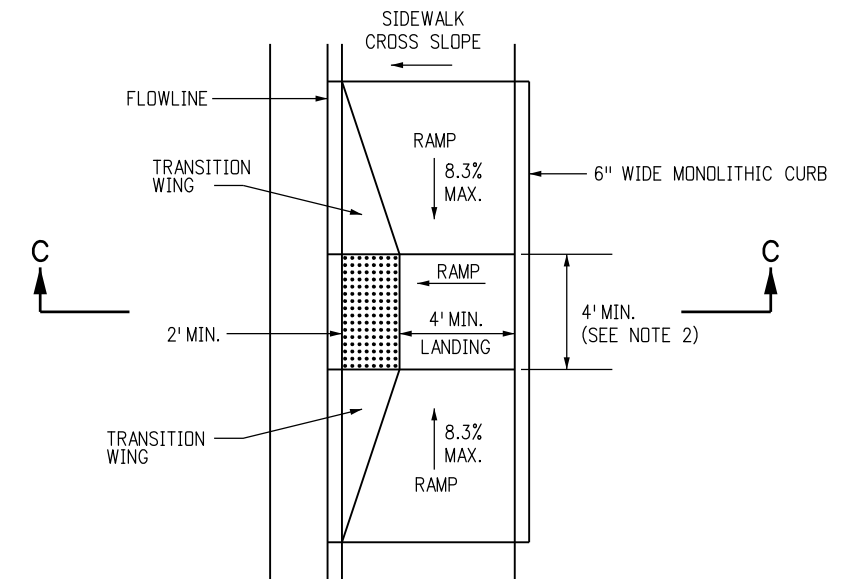


PERPENDICULAR CURB RAMP WITHIN SIDEWALK

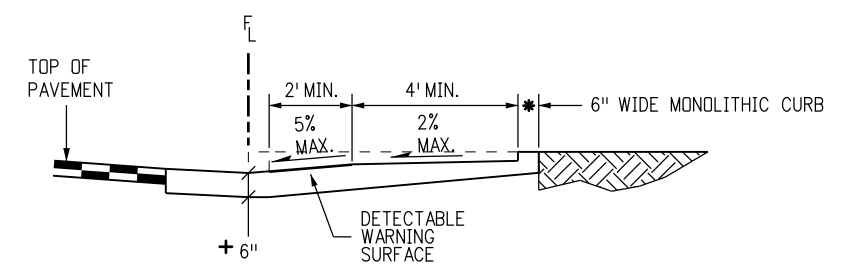


+ INCREASES TO 8" FOR BRICK PAVERS.

SECTION B-B



CURB RAMP WITHIN 6 FT. MIN. SIDEWALK



+ INCREASES TO 8" FOR BRICK PAVERS.

SECTION C-C

NOTES

1. PERPENDICULAR AND PARALLEL CURB RAMPS SHOWN ON THIS DRAWING ARE ACCEPTABLE FOR USE AT MID-BLOCK INSTALLATIONS.
2. SITE CONDITIONS WILL VARY. CONFIGURATION OF RAMPS, LANDINGS, AND TRANSITIONS MAY BE CHANGED BUT THEY MUST MEET THE DIMENSIONS AND SLOPES SHOWN HERE. THE USE OF FLARES, CURBWALLS, ETC. ARE AT THE DISCRETION OF THE ENGINEER.
3. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF CURB CUT. SEE "PLAN VIEW OF DETECTABLE WARNING" DETAIL ON SHEET 5 FOR DETECTABLE WARNING SURFACE DIMENSIONS.
4. LOCATE CURB CUT WITHIN CROSSWALK.
5. RAMP GRADE BREAK MUST BE PERPENDICULAR TO THE RUNNING SLOPE.

Computer File Information

Creation Date: 07/04/12	Initials: DLM
Last Modification Date: 04/28/14	Initials: LTA
Full Path: www.coloradodot.info/business/designsupport	(R-X)
Drawing File Name: 608010407.dgn	(R-X)
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)

Sheet Revisions

Date:	Comments

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Fax: (303) 757-9820

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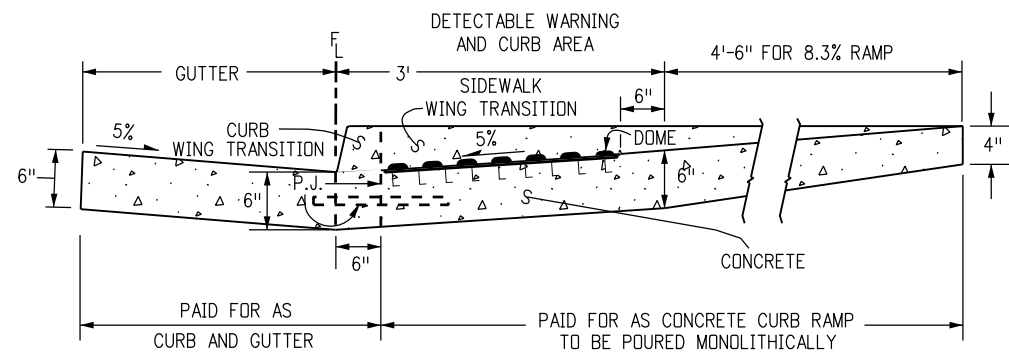
CURB RAMPS

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M-608-1

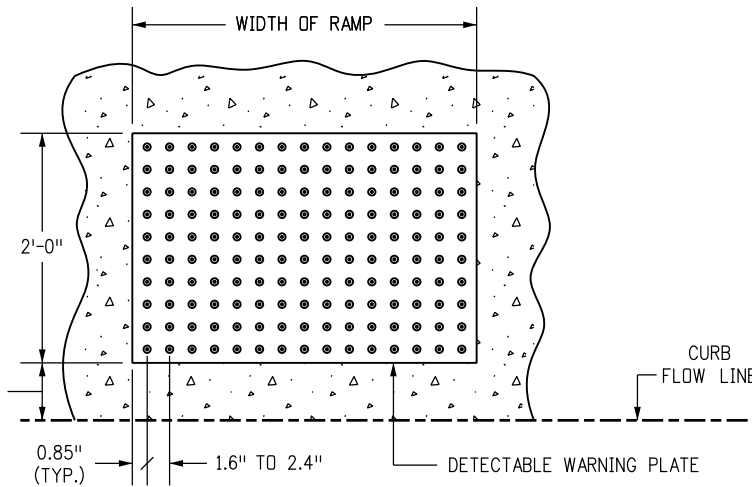
Sheet No. 4 of 7



DETAIL FOR TYPES 1 AND 3 CURB RAMPS

P.J. = PERMISSIBLE JOINT WITH EPOXY-COATED DEFORMED NO. 4 BY 18 IN. BARS CONFORMING TO AASHTO M 284 AT 18 IN. SPACING.

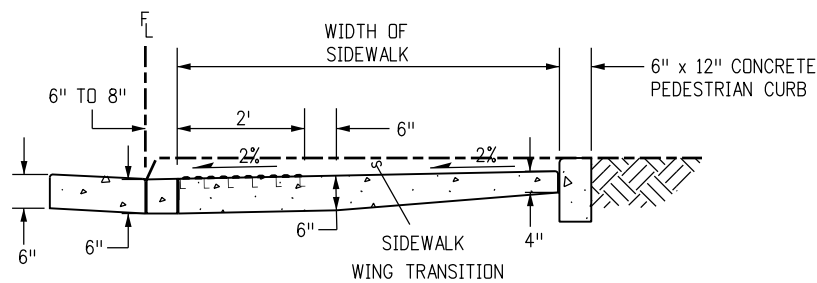
**SIDE CROSS SECTION VIEW OF
DETECTABLE WARNING, CURB, AND GUTTER**



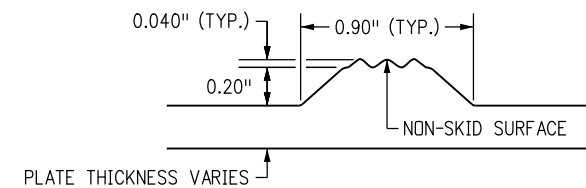
**PLAN VIEW OF
DETECTABLE WARNING**

NOTES

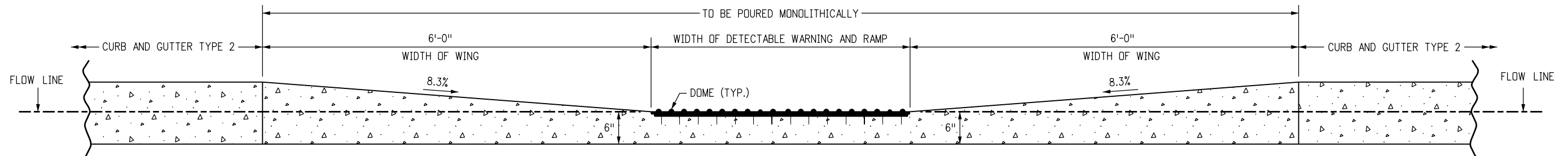
1. THE TRUNCATED DOME PLATE SHALL BE EMBEDDED IN THE CONCRETE CURB RAMP WHILE CONCRETE IS PLASTIC.
2. THE TRUNCATED DOME PLATE TO BE USED SHALL BE ON THE CDOT APPROVED PRODUCT LIST.
3. WHEN THE DETECTABLE WARNING SURFACE IS CUT, GRIND OFF REMAINING PORTION OF ANY CUT DOMES. SEAL ALL CUT PANEL EDGES TO PREVENT WATER DAMAGE.
4. THE DETECTABLE WARNING SURFACE SHALL SPAN THE ENTIRE WIDTH OF THE RAMP. IF CONDITIONS DO NOT ALLOW THE ENTIRE SPAN, THE DETECTABLE WARNING SURFACE SPAN SHALL NOT BE MORE THAN 2 INCHES AWAY FROM EACH SIDE OF RAMP.



DETAIL FOR TYPE 2 CURB RAMP



ELEVATION VIEW OF DETECTABLE WARNING PLATE



**FRONT SECTION VIEW OF
DETECTABLE WARNING, CURB, AND GUTTER**

CURB RAMP WITH A TRUNCATED DOME SURFACE PLATE

Computer File Information	
Creation Date: 07/04/12	Initials: DLM
Last Modification Date: 4/28/14	Initials: LTA
Full Path: www.coloradodot.info/business/designsupport	
Drawing File Name: 608010507.dgn	
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Sheet Revisions	
Date:	Comments
(R-X)	
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(R-X)	

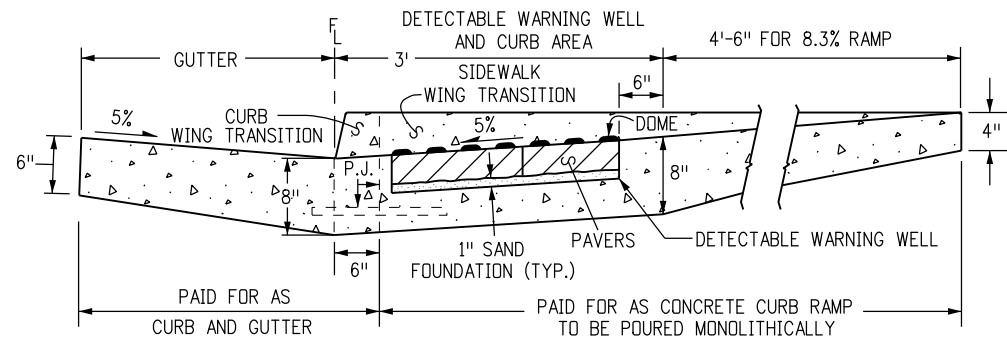
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Project Development Branch **DLM/LTA**

CURB RAMPS

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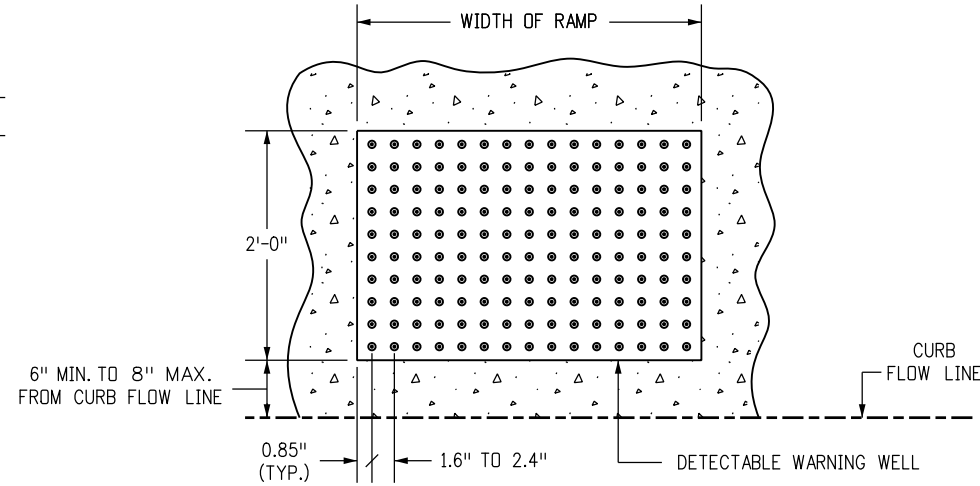
STANDARD PLAN NO.
M-608-1
Sheet No. 5 of 7



DETAIL FOR TYPES 1 AND 3 CURB RAMPS

P.J. = PERMISSIBLE JOINT WITH EPOXY-COATED DEFORMED NO. 4 BY 18 IN. BARS CONFORMING TO AASHTO M 284 AT 18 IN. SPACING.

**SIDE CROSS SECTION VIEW OF
DETECTABLE WARNING, WELL, CURB, AND GUTTER**

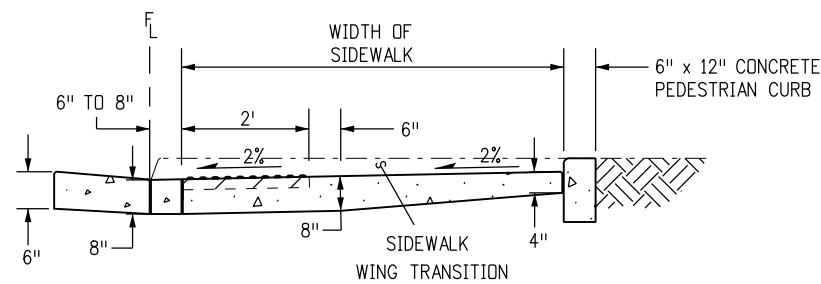


**PLAN VIEW OF
DETECTABLE WARNING AND WELL**

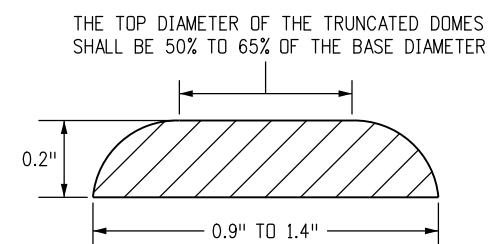
(PAVERS NOT DRAWN TO SCALE)

NOTES

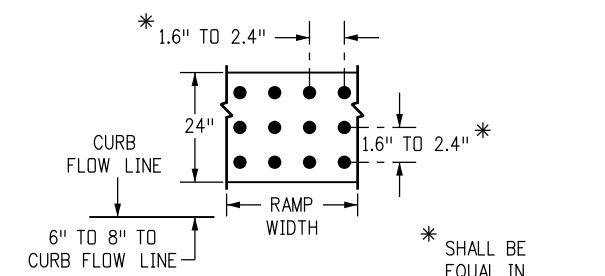
1. THE DETECTABLE WARNINGS SHALL BE MADE OF PAVERS WITH A TRUNCATED DOME SURFACE.
2. THE TOP OF THE DRAINAGE WEEP HOLE SHALL BE LOCATED AT THE LOWEST POINT OF THE DETECTABLE WARNING WELL.
3. RAMP SLOPES SHALL BE 12:1 OR FLATTER. THE DETECTABLE WARNING AND WELL AREA SLOPES SHALL BE 20:1 OR FLATTER.
4. THE DETECTABLE WARNING SURFACE SHALL SPAN THE ENTIRE WIDTH OF THE RAMP. IF CONDITIONS DO NOT ALLOW THE ENTIRE SPAN, THE DETECTABLE WARNING SURFACE SPAN SHALL NOT BE MORE THAN 2 INCHES AWAY FROM EACH SIDE OF RAMP.



DETAIL FOR TYPE 2 CURB RAMP

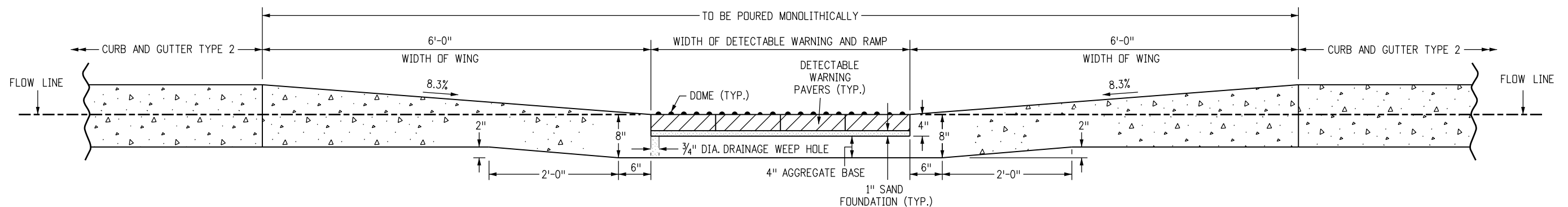


ELEVATION VIEW OF SINGLE DOME



PLAN VIEW

DOME AND DETECTABLE WARNING DETAILS



**FRONT SECTION VIEW OF
DETECTABLE WARNING, WELL, CURB, AND GUTTER
CURB RAMP WITH DOME PAVER OPTION**

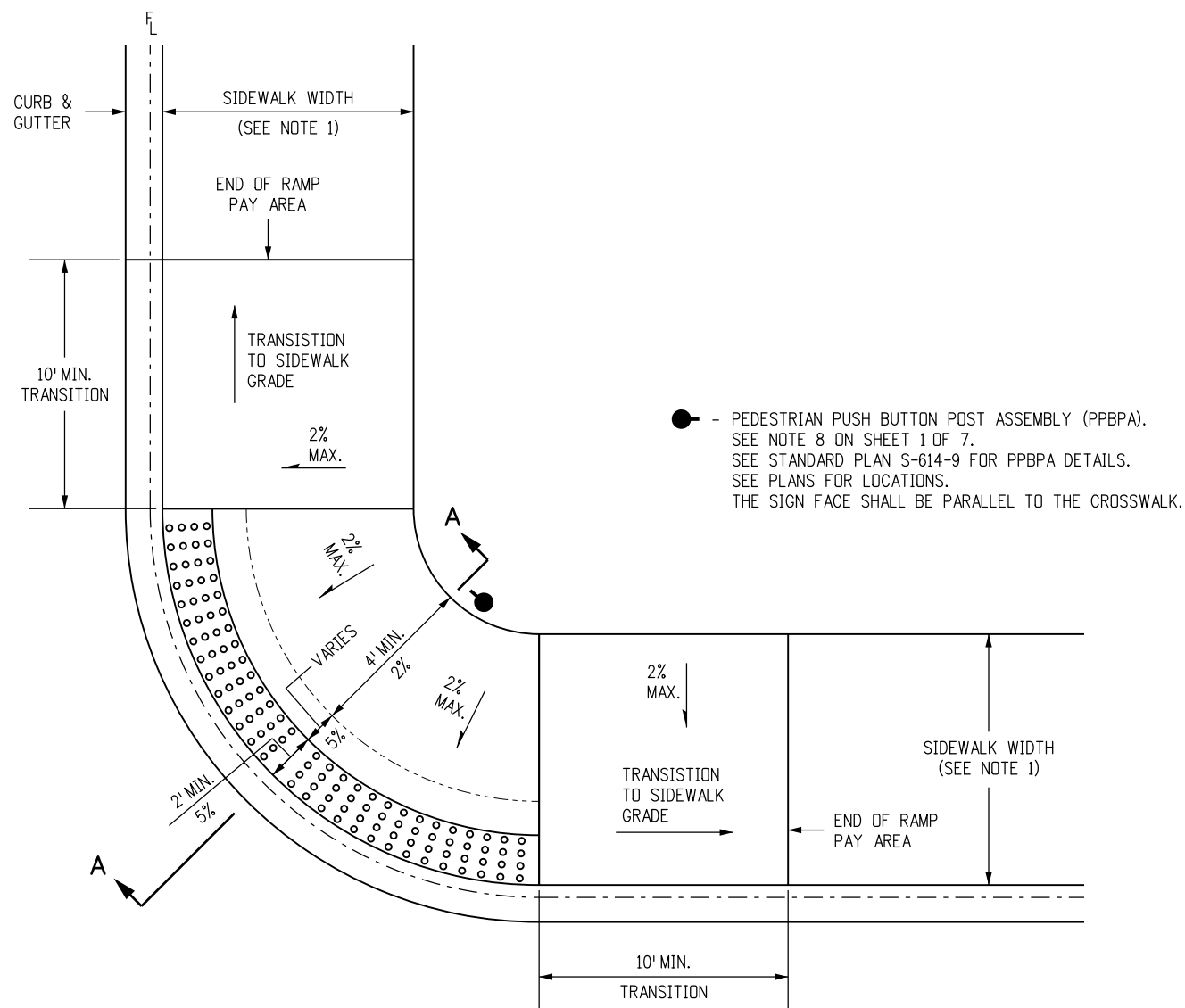
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Sheet Revisions	
Date:	Comments
(R-X)	
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(R-X)	

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 Denver, Colorado 80222
 Phone: (303) 757-9083
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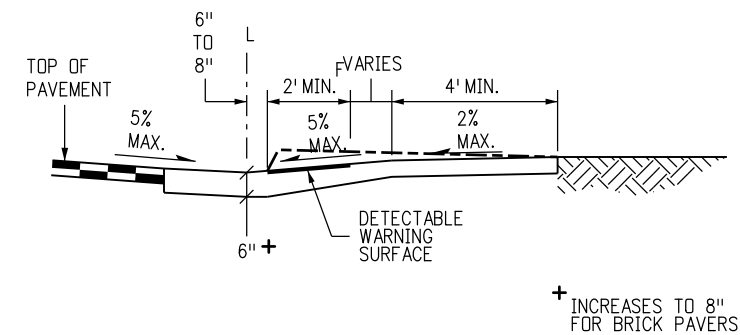
CURB RAMPS
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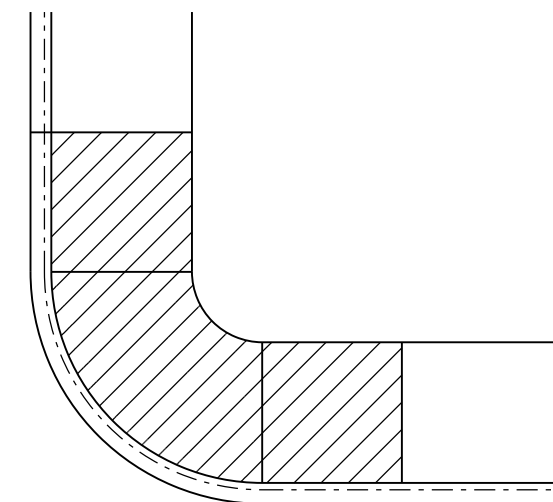
● - PEDESTRIAN PUSH BUTTON POST ASSEMBLY (PPBPA).
 SEE NOTE 8 ON SHEET 1 OF 7.
 SEE STANDARD PLAN S-614-9 FOR PPBPA DETAILS.
 SEE PLANS FOR LOCATIONS.
 THE SIGN FACE SHALL BE PARALLEL TO THE CROSSWALK.

CORNER BLENDED TRANSITION CURB RAMP



SECTION A-A

(PPBPA NOT SHOWN IN SECTION VIEWS AS IT MAY NOT BE REQUIRED.)



RAMP PAY AREA

FOR CORNER BLENDED TRANSITION CURB RAMP

NOTES

1. IF THE EXISTING SIDEWALK WIDTHS ARE DIFFERENT, MATCH THE SMALLEST WIDTH TO 4 FT. MIN.
2. SLOPES SHOWN AS TYPICAL IN SECTION A-A MAY BE ADJUSTED IF NECESSARY TO FIT EXISTING CONDITIONS, BUT MAY NOT EXCEED 5% SLOPE UNDER ANY CONDITIONS.
3. ALL TRUNCATED DOME PANELS OR PAVERS PLACED AT THE SAME CORNER SHALL BE MADE UP OF THE SAME UNIFORM MATERIAL TYPE.

Computer File Information	
Creation Date: 07/04/12	Initials: DLM
Last Modification Date: 04/24/14	Initials: LTA
Full Path: www.coloradodot.info/business/designsupport	
Drawing File Name: 608010707.dgn	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	

Sheet Revisions	
Date:	Comments
(R-X)	
(R-X)	
(R-X)	
(R-X)	

Colorado Department of Transportation
 4201 East Arkansas Avenue
 Denver, Colorado 80222
 Phone: (303) 757-9083
 Fax: (303) 757-9820

Project Development Branch **DLM/LTA**

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