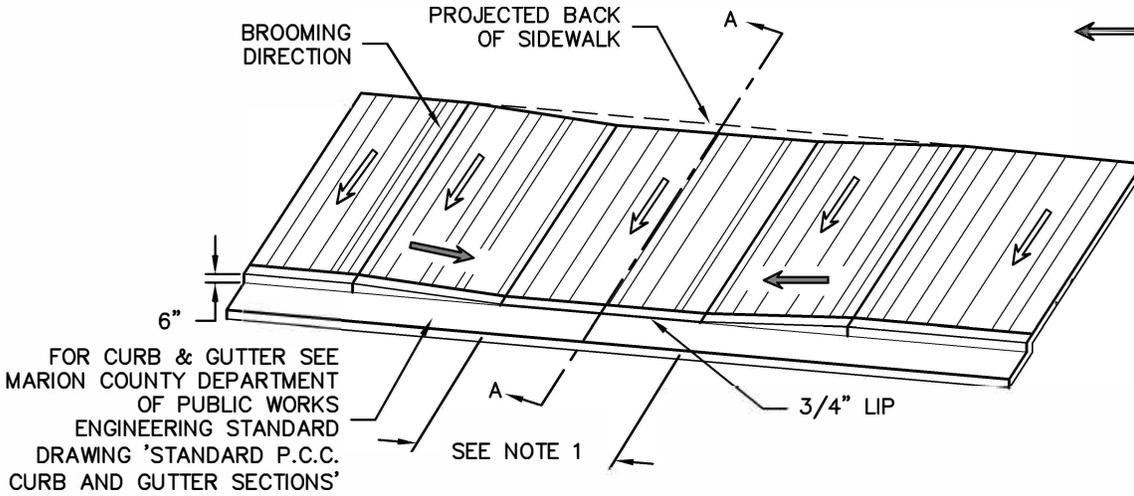


DRIVEWAYS WITH CURB LINE SIDEWALK

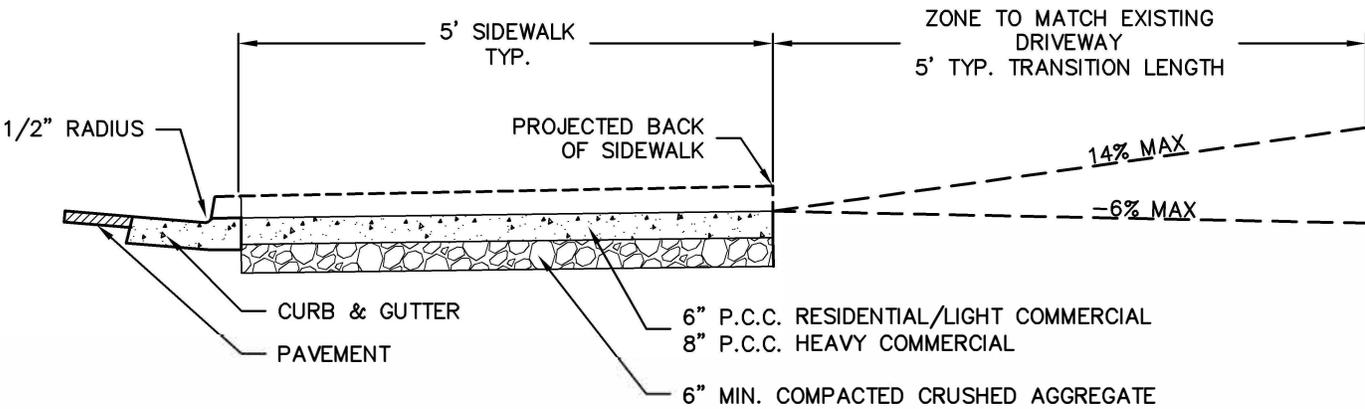
← SLOPE 1.5% MAX.
(MAX. 2.0% FINISHED)

← SLOPE 7.5% MAX.
(MAX. 8.3% FINISHED)



FOR CURB & GUTTER SEE MARION COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING STANDARD DRAWING 'STANDARD P.C.C. CURB AND GUTTER SECTIONS'

SECTION A-A



- NOTES:
1. DRIVEWAY WIDTH TYPICALLY SHOWN ON PROJECT PLANS. WHEN NOT SPECIFIED, WIDTH SHALL BE AS DIRECTED BY THE COUNTY ENGINEER. IN EITHER CASE, DRIVEWAY WIDTH SHALL NOT EXCEED THE LIMITS SET FORTH IN MARION COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING STANDARDS TABLE 6.
 2. SIDEWALKS, INCLUDING PORTION CROSSING DRIVEWAY, SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS AND TOOL ROUNDED BEFORE BROOMING. ALL EDGES SHALL BE TOOL ROUNDED AFTER BROOMING.
 3. WHEN EXISTING DRIVEWAY CANNOT MATCH NEW DRIVEWAY WITHIN SLOPE LIMITATIONS SHOWN, ADJUST EXISTING DRIVEWAY, NOT CURB AND SIDEWALK GRADE.
 4. DRIVEWAY APPROACH DIMENSIONS SHALL NOT BE ADJUSTED WITHOUT SPECIFIC PRIOR (BEFORE FORMING) INSPECTOR APPROVAL.
 5. CONCRETE STRENGTH SHALL BE 3000 P.S.I. IN 28 DAYS. NO COLOR ADDITIVES SHALL BE USED.
 6. 2% MAX. SIDEWALK CROSS SLOPE IS MEASURED FROM BACK OF WALK TO FACE OF CURB. 8.33% MAX. SIDEWALK TRANSITION CROSS SLOPE IS RELATIVE TO RUNNING SLOPE OF SIDEWALK.
 7. SEE MARION COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING STANDARD DRAWING 'STANDARD SIDEWALK DETAILS' FOR ADDITIONAL RESTRICTIONS AND SPECIFICATIONS NOT SHOWN.

Standard Drawing 11A

MARION COUNTY DEPARTMENT OF PUBLIC WORKS



TYPE 1 DRIVEWAY
APPROACH CURB
LINE SIDEWALK

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
	NONE	

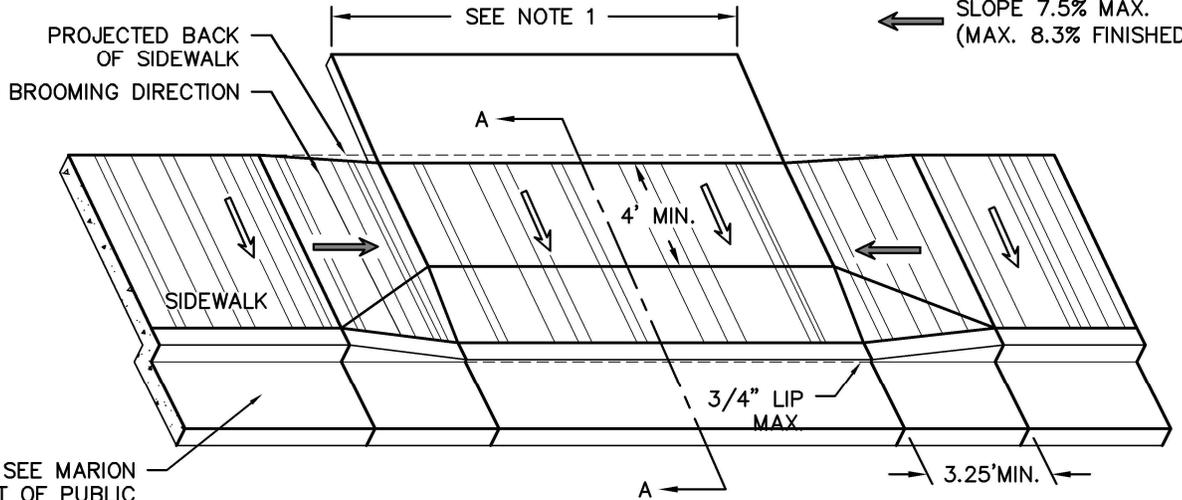
CREATION DATE: 03/01/2016	REVISION DATE: 07/24/2023	SCALE: N.T.S	SHEET: 1 of 1
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FILE: G:\ENGINEERING\LDENG&PERMITS\SHARED\ENGINEERING\DETAILS\ENGINEERING STANDARD DETAILS\TYPE 2 DRIVEWAY APPROACH CURB LINE SIDEWALK.DWG PLCTED: 2023/01/26 10:56 AM

DRIVEWAYS WITH CURB LINE SIDEWALK

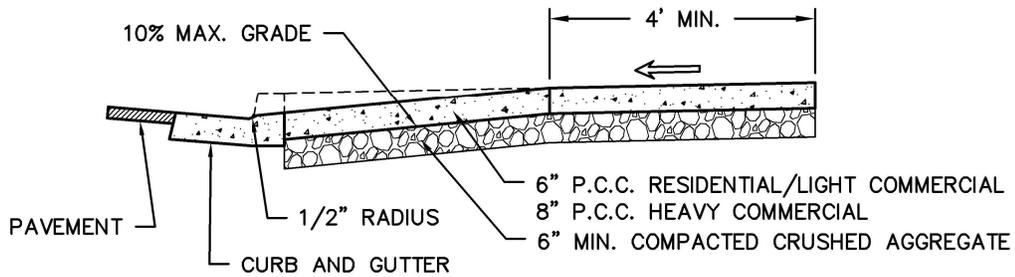
← SLOPE 1.5% MAX.
(MAX. 2.0% FINISHED)

← SLOPE 7.5% MAX.
(MAX. 8.3% FINISHED)



FOR CURB AND GUTTER SEE MARION COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING STANDARD DRAWING 'STANDARD P.C.C. CURB AND GUTTER SECTIONS'

SECTION A-A



- NOTES:
1. DRIVEWAY WIDTH NORMALLY SHOWN ON PROJECT PLANS. WHEN NOT SHOWN, WIDTH SHALL BE AS DIRECTED BY THE COUNTY ENGINEER. IN EITHER CASE, DRIVEWAY WIDTH SHALL NOT EXCEED THE LIMITS SET FORTH IN MARION COUNTY ENGINEERING STANDARDS TABLE 6.
 2. SIDEWALKS, INCLUDING THE PORTION CROSSING A DRIVEWAY, SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS AND TOOL ROUNDED BEFORE BROOMING. ALL EDGES SHALL BE TOOL ROUNDED AFTER BROOMING.
 3. WHEN EXISTING DRIVEWAY CANNOT MATCH NEW DRIVEWAY WITHIN SLOPE LIMITATIONS SHOWN, ADJUST EXISTING DRIVEWAY, NOT CURB AND SIDEWALK GRADE.
 4. DRIVEWAY APPROACH DIMENSIONS SHALL NOT BE ADJUSTED WITHOUT SPECIFIC PRIOR (BEFORE FORMING) COUNTY INSPECTOR APPROVAL.
 5. CONCRETE STRENGTH SHALL BE 3000 P.S.I. IN 28 DAYS. NO COLOR ADDITIVES SHALL BE USED.
 6. SEE MARION COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING STANDARD DRAWING 'STANDARD SIDEWALK DETAILS' FOR ADDITIONAL RESTRICTIONS AND SPECIFICATIONS NOT SHOWN.
 7. COMMERCIAL DRIVEWAYS ARE REQUIRED TO OBTAIN COUNTY ENGINEER APPROVAL FOR THIS TYPE OF APPROACH.

Standard Drawing 11B

MARION COUNTY DEPARTMENT OF PUBLIC WORKS

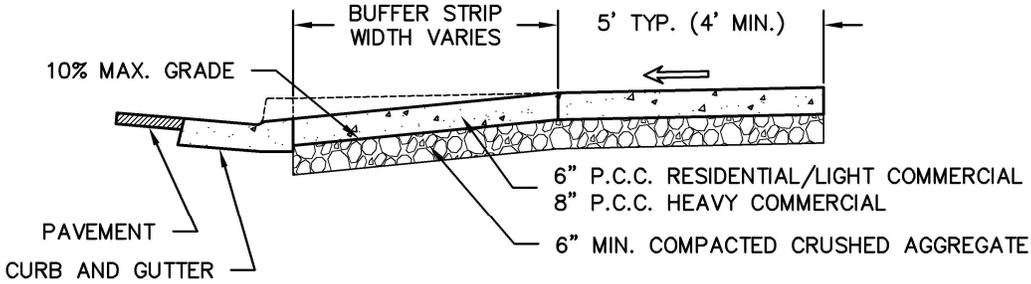
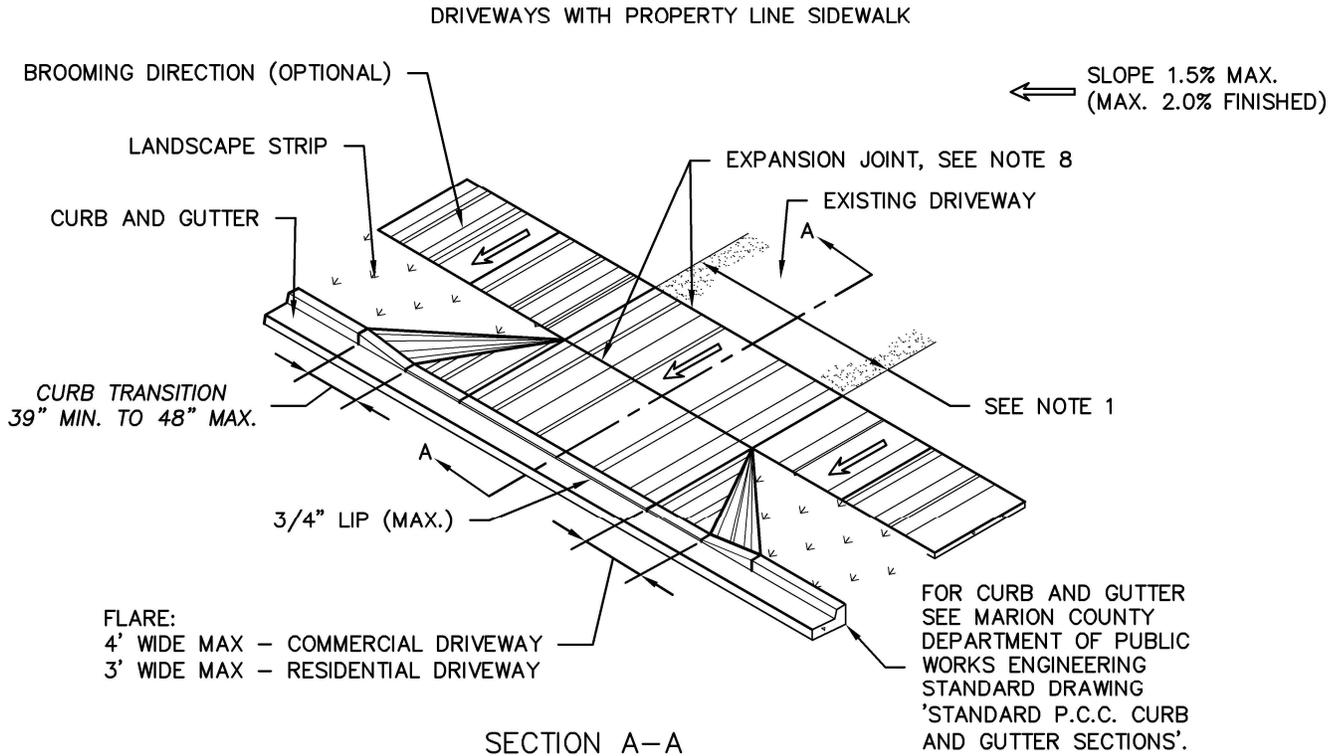


TYPE 2 DRIVEWAY
APPROACH CURB
LINE SIDEWALK

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
03/01/16	NOTE WAS LISTED AS 3300 PSI	DC
03/01/16	EXPANSION JOINTS REMOVED	RP
03/01/16	LIP CHANGED TO 3/4"	RP
01/26/23	CHANGE TO CLEAR WIDTH TO 4' AND DIMENSION CHANGES	HS

CREATION DATE: 03/01/2016	REVISION DATE: 01/26/2023	SCALE: N.T.S	SHEET: 1 OF 1
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FILE: G:\ENGINEERING\LDENG&PERMITS\SHARED\ENGINEERING\DETAILS\DRIVEWAY APPROACH PROPERTY LINE SIDEWALK.DWG PLOTTED: 2023/01/25 4:24 PM



NOTES:

1. DRIVEWAY WIDTH TYPICALLY SHOWN ON PROJECT PLANS. WHEN NOT SPECIFIED, WIDTH SHALL BE AS DIRECTED BY THE COUNTY ENGINEER. IN EITHER CASE, DRIVEWAY WIDTH SHALL NOT EXCEED LIMITS SET FORTH IN MARION COUNTY, ENGINEERING STANDARDS TABLE 6.
2. SIDEWALKS, INCLUDING PORTION CROSSING DRIVEWAY, SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS AND TOOL ROUNDED BEFORE BROOMING. ALL EDGES SHALL BE TOOL ROUNDED AFTER BROOMING.
3. WHEN EXISTING DRIVEWAY CANNOT MATCH NEW DRIVEWAY WITHIN SLOPE LIMITATIONS SHOWN, ADJUST EXISTING DRIVEWAY, NOT CURB AND SIDEWALK GRADE.
4. DRIVEWAY APPROACH DIMENSIONS SHALL NOT BE ADJUSTED WITHOUT SPECIFIC PRIOR (BEFORE FORMING) INSPECTOR APPROVAL.
5. CONCRETE STRENGTH SHALL BE 3000 P.S.I. IN 28 DAYS. NO COLOR ADDITIVES SHALL BE USED.
6. 2% MAX. CROSS SLOPE OF SIDEWALK IS MEASURED FROM BACK OF WALK TO FACE OF CURB. 8.33% MAX. SLOPE OF SIDEWALK TRANSITION TO DRIVEWAY IS RELATIVE TO RUNNING SLOPE OF SIDEWALK.
7. SEE MARION COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING STANDARD DRAWING 'STANDARD SIDEWALK DETAILS' FOR ADDITIONAL RESTRICTIONS AND SPECIFICATIONS NOT SHOWN.
8. EXPANSION JOINTS 1/2" x 3-1/2" PREMOLDED JOINT MATERIAL AT LOCATIONS SHOWN.

Standard Drawing 11C

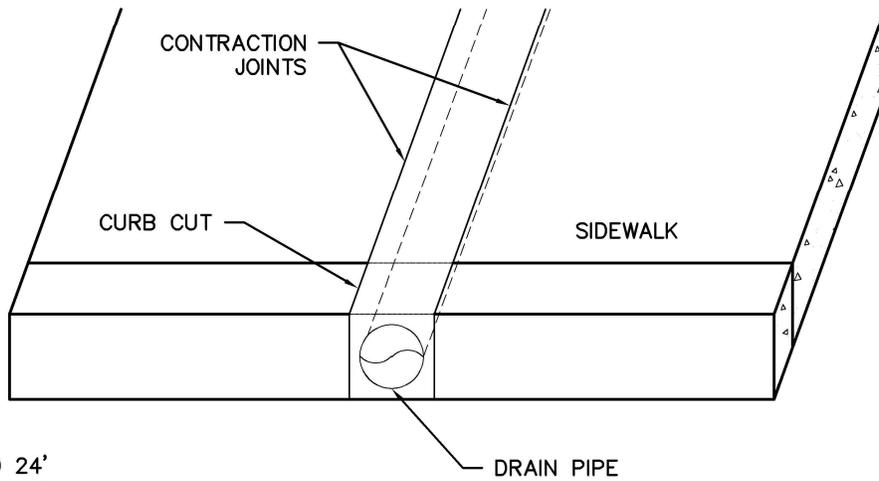
MARION COUNTY DEPARTMENT OF PUBLIC WORKS



**DRIVEWAY APPROACH
PROPERTY LINE SIDEWALK**

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
	NONE	

CREATION DATE: 01/18/2013	REVISION DATE: 01/25/2023	SCALE: N.T.S	SHEET: 1 OF 1
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NOTES:

1. APPROACH WIDTH (W):
 - 1.1. RESIDENTIAL 12" TO 24'
 - 1.2. COMMERCIAL 28' TO 40'
 - 1.2.1. FOR COMMERCIAL DRIVEWAYS, WIDTH SHALL BE SET BY COUNTY ENGINEER ON A SITE SPECIFIC BASIS.
2. FLARE:
 - 2.1. 36" FOR COMMERCIAL AND INDUSTRIAL WHERE TRAVEL LANE IN STREET IS ADJACENT TO CURB. (I.E. PARKING PROHIBITED).
 - 2.2. NONE REQUIRED FOR RESIDENTIAL AND COMMERCIAL WHERE PARKING IS ALLOWED IN STREET ADJACENT TO CURB.
3. BROOMING DIRECTION:
 - 3.1. BACK OF WALK TO FACE OF CURB.
4. DEEP SCORING, SHINING & EXPANSION JOINTS:
 - 4.1. DEEP SCORED CONTRACTION JOINTS ARE TO BE MADE EVERY 5' OF SIDEWALK AND EVERY 15' OF CURB. WHEN CURB IS CUT TO ALLOW FOR A DRAIN LINE, A DEEP SCORE IS TO BE MADE AT BOTH CURB EDGES, NOT OVER PIPE. SEE NOTE 4.4.5. BELOW.
 - 4.2. DEEP SCORED CONTRACTION JOINTS ARE TO BE FORMED TO A DEPTH OF 1-1/4" x 1/4" IN WIDTH.
 - 4.3. EXPANSION JOINTS USING 1/2" X 3-1/2" PRE-MOLDED JOINT FILLER MATERIAL ARE REQUIRED AT:
 - 4.3.1. ALONG SIDEWALK AT DRIVEWAY - A PROPERTY LINE SIDEWALK WILL REQUIRE EXPANSION JOINTS ON BOTH SIDES OF SIDEWALK.
 - 4.3.2. ALONG SIDEWALK WHERE IT INTERSECTS ANOTHER SIDEWALK.
 - 4.3.3. AT EDGES OF UTILITY VAULTS OR OTHER STRUCTURES EXPOSED TO SIDEWALK.
 - 4.3.4. IN SIDEWALK TO ISOLATE A WHEELCHAIR RAMP.
 - 4.3.5. ON CURBSIDE SIDEWALKS PLACED AT 90° ACROSS THE SIDEWALK AT BEGINNING (TOP) OF CURB TRANSITION.
 - 4.3.6. NO RUNNING PIECE OF SIDEWALK SHALL BE MORE THAN 40' WITHOUT AN EXPANSION JOINT.
5. CONCRETE SPECIFICATIONS:
 - 5.1. A MINIMUM OF 3,000 PSI CONCRETE IN 28 DAYS SHALL BE USED FOR ALL CURBS, DRIVEWAY APPROACHES AND SIDEWALKS.
 - 5.2. CONCRETE SHALL BE AIR ENTRAINED; TOTAL AIR CONTENT (PERCENT BY VOLUME OF CONCRETE) SHALL BE BETWEEN 5% AND 7%.
6. CURB REMOVAL:
 - 6.1. WHEN FULL HEIGHT CURB SECTION IS REMOVED, THE FOLLOWING PROVISIONS SHALL APPLY:
 - 6.1.1. VERTICAL SAW CUTS SHALL BE MADE AT OUTSIDE EDGES OF CURB TRANSITIONS. THIS APPLIES TO BOTH TYPE A AND TYPE C CURBS. WHEN WEEP HOLES ARE TO BE INSTALLED, ADDITIONAL CURB WILL NEED TO BE REMOVED.
 - 6.1.2. FOR TYPE A CURB AND GUTTER, THE ENTIRE CURB AND GUTTER SHALL BE REMOVED AND RE-POURED. MATERIAL IN CURB AREA SHALL BE REMOVED TO SUBGRADE AND RE-POURED. PROVIDE 6" OF CONCRETE BELOW FLOW LINE IN CURB AREA.
 - 6.1.3. TYPE C CURB SHALL BE REMOVED TO FULL DEPTH AND RE-POURED. PROVIDE 10" OF CONCRETE BELOW ASPHALT IN CURB AREA.
7. DRAIN LINES:
 - 7.1. WEEP HOLES FOR DRAINS ARE TO EXIT IN A FULL HEIGHT CURB SECTION OUTSIDE CURB TRANSITION AREA OF DRIVEWAY. DRAIN LINES IN SIDEWALK ARE TO BE LOCATED UNDER OR ADJACENT TO A CONTRACTION JOINT. DRAIN LINES ARE TO CROSS SIDEWALKS AT 90° (PERPENDICULAR) TO CURB.
 - 7.2. WHERE CURB CUTS ARE MADE FOR CONSTRUCTION OF A DRIVEWAY APPROACH, ONE DRAIN LINE IS ALLOWABLE IN CURB TRANSITION AREA IF LINE IS PLACED DIRECTLY ADJACENT TO CURB CUT (HIGHEST POINT OF TRANSITION).
 - 7.3. DRAIN LINES ARE TO BE PLACED AT GUTTER FLOW LINE.
 - 7.4. DRAIN PIPE IS TO BE PLACED ADJACENT TO CURB CUT. A CONTRACTION JOINT IS TO BE SCORED ALONG BOTH CUTS.

Standard Drawing 11D

MARION COUNTY DEPARTMENT OF PUBLIC WORKS

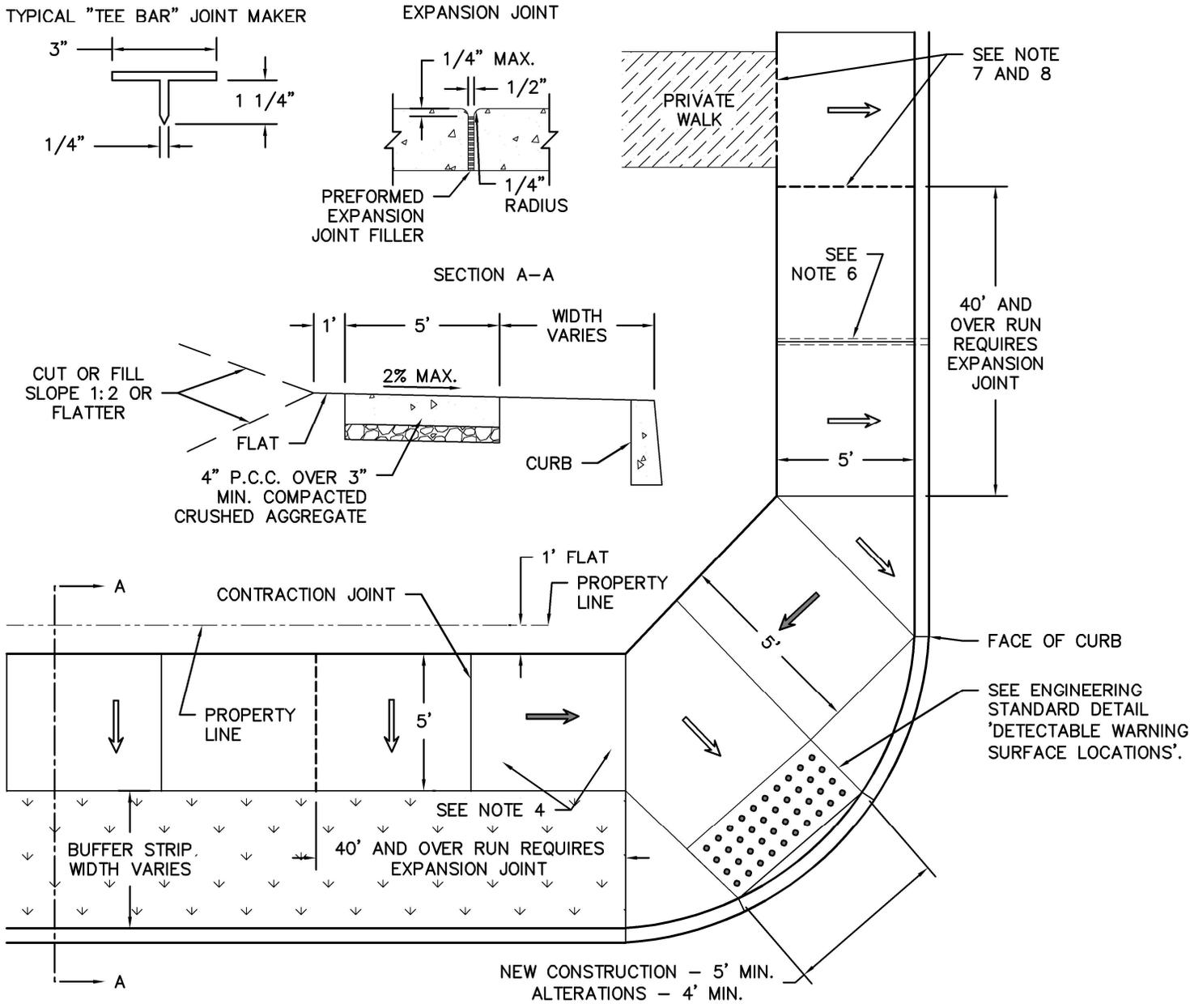


**NOTES FOR
URBAN STREETS**

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
01/18/13	NOTE 5 CHANGE TO 3000 PSI	DC
03/01/16	COMBINE SHEETS	RP

CREATION DATE: 01/18/2013	REVISION DATE: 01/27/2023	SCALE: N.T.S	SHEET: 1 OF 1
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FILE: G:\ENGINEERING\LDENG&PERMITS\SHARED\ENGINEERING\DETAILS\STANDARD SIDEWALK DETAILS.DWG PLOTTED: 2023/01/24 1:50 PM



- NOTES:**
- PREMOLDED JOINT FILLER MATERIAL SHALL BE PLACED ON ALL EDGES OF UTILITY VAULTS OR STRUCTURES EXPOSED TO SIDEWALK. MATERIAL SHALL BE RECESSED OR CUT TO WITHIN 1/2" OF FINISHED CONCRETE SURFACE.
 - 3000 P.S.I. CONCRETE IN 28 DAYS TO BE USED ON SIDEWALKS. NO COLOR ADDITIVES ARE ALLOWED.
 - PAVEMENT, TURF OR PLANTED AREAS DISTURBED BY SIDEWALK CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
 - TRANSITION SLOPE TO SIDEWALK (8.33% MAX LONGITUDINAL SLOPE, BUT NOT EXCEEDING 12' TOTAL LENGTH).
 - CONTRACTION JOINTS SHALL BE 1-1/4" x 1/4" WIDE, SPACED 5' ON CENTER.
 - INSTALL 3" ROOF DRAINS UNDER SIDEWALK TO MEET EXISTING WEEP HOLES IN CURB. PROVIDE CONTRACTION JOINT OVER OR ADJACENT TO DRAIN PIPE. WHERE NO WEEP HOLES EXIST, INSTALL WEEP HOLES AND DRAINS AS DIRECTED BY COUNTY ENGINEER.
 - EXPANSION JOINTS 1/2" x 3-1/2" PREMOLDED JOINT FILLER MATERIAL, SPACED 40' ON CENTER.
 - PLACE EXPANSION JOINTS AT ADJACENT CONCRETE STRUCTURES, IN LONG RUNS OF WALK OVER 40', AND AT SIDEWALK RAMPS.

Standard Drawing 11E (previously 15)

- SLOPE 1.5% MAX. (MAX. 2.0% FINISHED)
- SLOPE 7.5% MAX. (MAX. 8.3% FINISHED)
- DETECTABLE WARNING SURFACE

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
04/06/17	SLOPE RANGE ADJUSTMENT	RP

MARION COUNTY DEPARTMENT OF PUBLIC WORKS

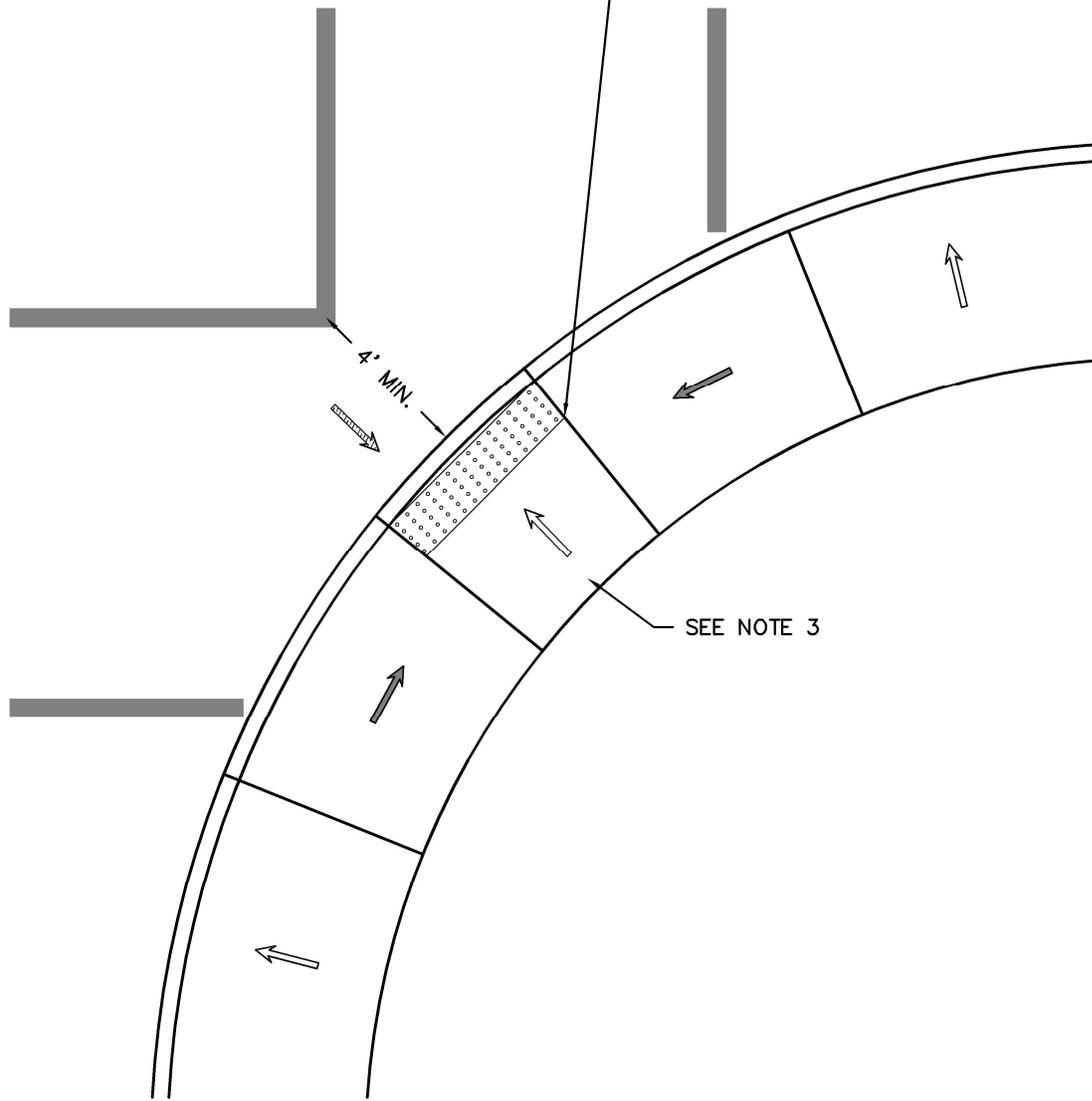


STANDARD SIDEWALK DETAILS

CREATION DATE: 02/02/1985	REVISION DATE: 01/24/2023	SCALE: N.T.S	SHEET: 1 OF 1
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FILE: G:\ENGINEERING\LDENG&PERMITS\SHARED\ENGINEERING\DETAILS\ENGINEERING - STANDARD DETAILS\PARALLEL CURB LINE SIDEWALK RAMP.DWG PLOTTED: 2023/01/27 3:36 PM

SEE 'DETECTABLE WARNING SURFACE LOCATIONS' DETAIL



NOTES:

1. USE ALTERATIONS ONLY WHEN SITE OR DESIGN CONSTRAINTS PROHIBIT INSTALLING NEW RAMPS.
2. RAMPS SHALL HAVE 2% MAX. CROSS SLOPE.
3. TURNING SPACE NOTES:
 - 3.1. NEW CONSTRUCTION SHALL BE 4' x 4' MINIMUM
 - 3.2. ALTERATIONS TO EXISTING SHALL BE 3' x 3' MINIMUM.
 - 3.3. MAXIMUM SLOPE SHALL BE 2% IN ANY DIRECTION.

-  Slope 1.5% max. (Max. 2.0% finished)
-  Slope 7.5% max. (Max. 8.3% finished)
-  Detectable Warning Surface
-  Counter Slope (5.0% max.)

Standard Drawing 11G

MARION COUNTY DEPARTMENT OF PUBLIC WORKS

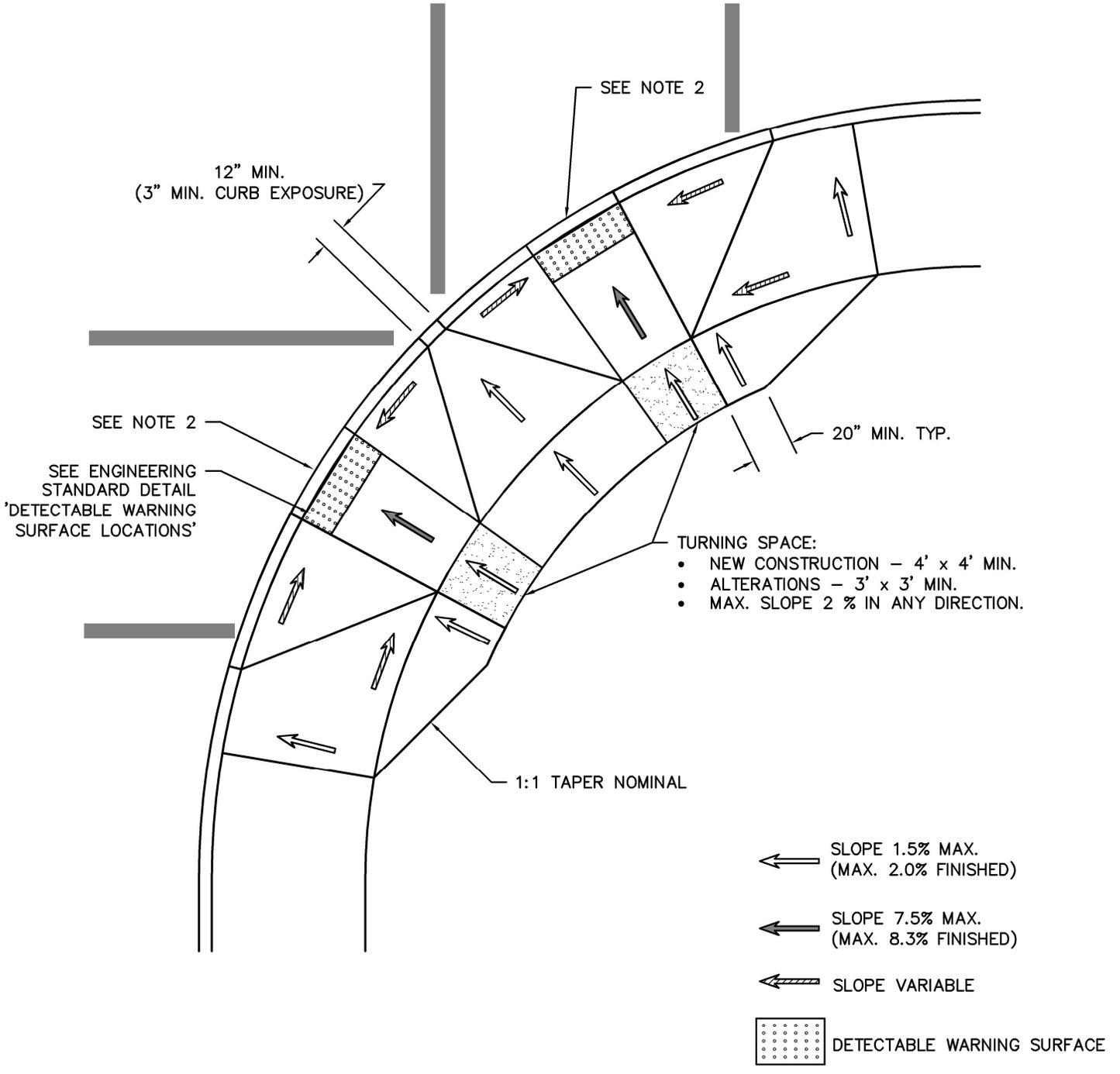


**PARALLEL CURB LINE
SIDEWALK RAMP**

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
04/06/17	SLOPE RANGE ADJUSTMENT	RP

CREATION DATE: 03/01/2016	REVISION DATE: 01/27/2023	SCALE: N.T.S	SHEET: 1 OF 1
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FILE: G:\ENGINEERING\LDENG&PERMITS\SHARED\ENGINEERING\DETAILS\PERPENDICULAR CURB LINE SIDEWALK RAMP.DWG PLOTTED: 2023/01/09 12:07 PM



NOTES:

1. USE ALTERATIONS ONLY WHEN SITE OR DESIGN CONSTRAINTS PROHIBIT INSTALLING A 4' x 4' AREA.
2. COUNTER SLOPE SHALL BE 5% MAX. CROSS SLOPE SHALL BE 2% MAX.

Standard Drawing 11H

MARION COUNTY DEPARTMENT OF PUBLIC WORKS

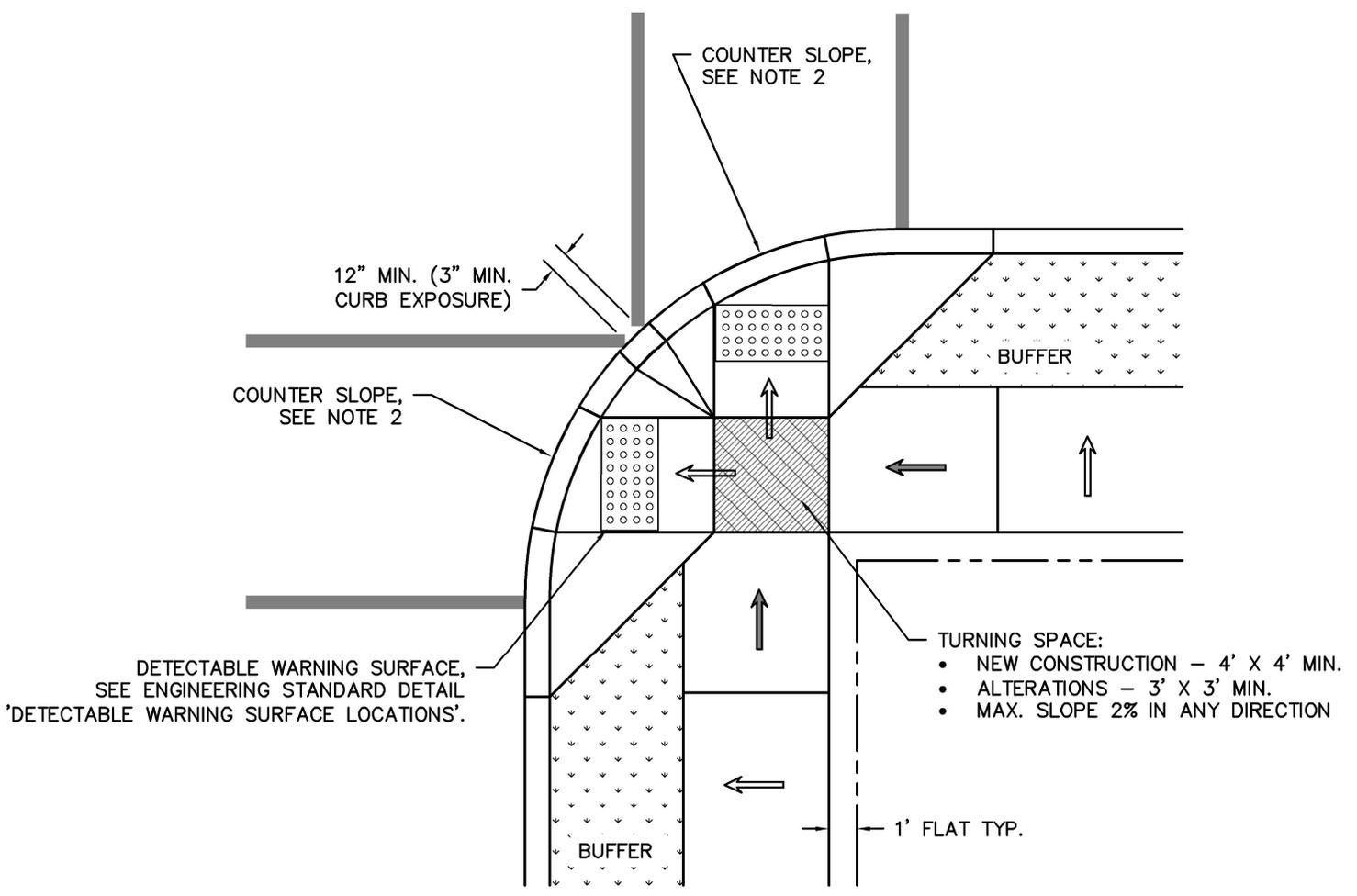


**PERPENDICULAR CURB
LINE SIDEWALK RAMP**

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
04/06/17	SLOPE RANGE ADJUSTMENT	HS

CREATION DATE: 03/01/2016	REVISION DATE: 01/09/2023	SCALE: N.T.S	SHEET: 1 OF 1
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FILE: G:\ENGINEERING\LDENG&PERMITS\SHARED\ENGINEERING\DETAILS\ENGINEERING STANDARD DETAILS\PARALLEL PROPERTY LINE RAMPS.DWG PLOTTED: 2023/01/06 4:09 PM



- NOTES:**
1. USE ALTERATIONS TURNING SPACE ONLY WHEN SITE OR DESIGN CONSTRAINTS PROHIBIT A LARGER AREA.
 2. COUNTER SLOPE IS 5% MAX, CROSS SLOPE IS 2% MAX.

← SLOPE 1.5% MAX.
(MAX. 2.0% FINISHED)

← SLOPE 7.5% MAX.
(MAX. 8.3% FINISHED)

▢ DETECTABLE WARNING SURFACE

Standard Drawing 11J

MARION COUNTY DEPARTMENT OF PUBLIC WORKS



**PARALLEL PROPERTY
LINE RAMPS**

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
	NONE	

CREATION DATE: 03/01/2016	REVISION DATE: 01/06/2023	SCALE: N.T.S	SHEET: 1 OF 1
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