



**Chandler • Arizona**  
*Where Values Make The Difference*

**MEMORANDUM**

**Case # 18-11**

**DATE:** June 6, 2018

**TO:** MAG Specifications and Details Committee Members

**FROM:** Warren White, City of Chandler Representative

**SUBJECT:** Proposed revisions to titles of Details 236-3 and 237-3 to expand usage

Purpose: Curb ramp details 236-3 (radial) and 237-3 (directional) are intended for local and collector streets with 20 ft curb return radii. However, there are instances (retrofits in particular) where this more compact curb ramp is suitable for larger curb return radii. This case revises the title of the details as follows plus corrects a graphical issue in the blow-up of Section A-A on detail 237-3 where landing should be flat.

Detail 236-3:

Current title: 20' R - RADIAL CURB RAMP  
ATTACHED SIDEWALK

Proposed title: 20'-35' R - RADIAL CURB RAMP (COMPACT)  
ATTACHED SIDEWALK

Detail 237-3:

Current title: 20' R - DIRECTIONAL CURB RAMP  
ATTACHED SIDEWALK

Proposed title: 20'-35' R - DIRECTIONAL CURB RAMP (COMPACT)  
ATTACHED SIDEWALK

\*added "COMPACT" to differentiate from larger radii curb return details.



**LEGEND**

⊕ RAMP CONTROL POINT AT FACE-OF-CURB SEE PLANS (TYP)

6" WIDE RAMP CURB WHEN REQUIRED BY PLAN

LIMITS OF HEAVY BROOM FINISH (TYP)

RIGHT-OF-WAY LINE PER PLANS (TYP)

EXPANSION JOINT AT CURB RETURN (TYP)

SW WIDTH PER PLANS

4' MIN (TYP)

4" ROLL CURB

5' TRANSITION FROM ROLL TO VERTICAL CURB PER DETAIL 221 WHEN REQUIRED

**DUAL RAMP**

DETECTABLE WARNING (TYP)

4" CURB HEIGHT

2" MIN SEE NOTE 5

2% MAX CROSS SLOPE (TYP)

CURB MODIFICATION SEE DETAIL 234 (TYP)

SEE NOTE 5

4" CURB AND GUTTER DETAIL 220-1, TYPE A (TYP)

CURB HEIGHT = 4" (TYP)

5' CURB HEIGHT TRANSITION (TYP)

CURB HEIGHT = 7" OR 6" (TYP)

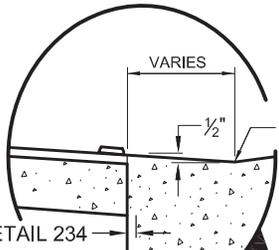
SW WIDTH PER PLANS

PT

10% MAX (TYP)

2% MAX CROSS SLOPE (TYP)

4" CURB HEIGHT



CURB MODIFICATION SEE DETAIL 234

**SINGLE RAMP**

5' TRANSITION FROM ROLL TO VERTICAL CURB PER DETAIL 221 WHEN REQUIRED

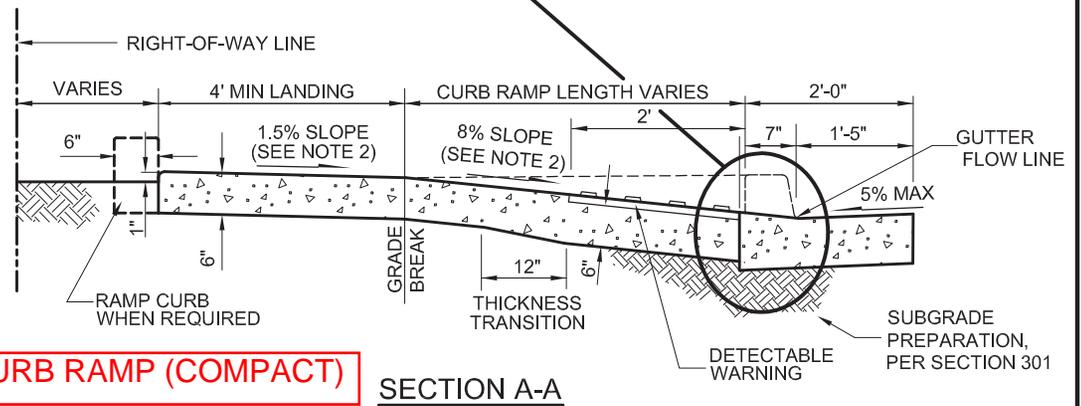
EXPANSION JOINT AT CURB RETURN (TYP)

SW WIDTH PER PLANS

4" ROLL CURB

**NOTES:**

1. CLASS 'A' CONCRETE PER SECTION 725, PC TO PT.
2. CONSTRUCTION INCLUDING JOINTS AND MAXIMUM SLOPES SHALL CONFORM TO SECTION 340.
3. WALKWAY SURFACE TO MATCH 1.5% SLOPE FROM TOP OF CURB.
4. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS.
5. DISTANCE BETWEEN RAMPS MAY BE ADJUSTED TO IMPROVE ALIGNMENT WITH RECEIVING RAMP WHEN ALLOWED BY THE JURISDICTIONAL AGENCY.
6. SPECIAL DESIGN IS REQUIRED FOR GUTTER GRADES GREATER THAN 2%.



**20' - 35' R - RADIAL CURB RAMP (COMPACT)**

**SECTION A-A**

DETAIL NO.

236-3



STANDARD DETAIL  
ENGLISH

~~20' R - RADIAL CURB RAMP~~  
ATTACHED SIDEWALK

~~DRAFT~~

01-01-2018

DETAIL NO.

236-3

**LEGEND**

⊕ RAMP CONTROL POINT AT FACE-OF-CURB SEE PLANS (TYP)

• DESIGN ELEVATION SEE PLANS  
FL = FLOW LINE, FG = FINISHED GRADE

6" WIDE RAMP CURB WHEN REQUIRED BY PLAN

LIMITS OF HEAVY BROOM FINISH (TYP)

RIGHT-OF-WAY LINE PER PLANS (TYP)

EXPANSION JOINT AT CURB RETURN (TYP)

S/W WIDTH PER PLANS

4" ROLL CURB

5' TRANSITION FROM ROLL TO VERTICAL CURB PER DETAIL 221 WHEN REQUIRED

2% MAX CROSS SLOPE (TYP)

A

S/W RADIUS AS SHOWN ON PLANS (TYP)

SEE NOTE 7 (TYP)

FL

PT

SEE NOTE 7 (TYP)

PC

S/W WIDTH PER PLANS

CURB HEIGHT = 7" OR 6" (TYP)

5' CURB HEIGHT TRANSITION (TYP)

CURB HEIGHT = 4" (TYP)

4" CURB AND GUTTER DETAIL 220-1, TYPE A (TYP)

DETECTABLE WARNING (TYP)

4" CURB HEIGHT

FL

FG

VARIES

MIN

MAX

4" MIN (TYP)

5' 2" MAX (TYP)

10% MAX (TYP)

VARIES

S/W WIDTH PER PLANS

SEE NOTE 7 (TYP)

FL

PT

FL

FG

VARIES

6" WIDE RAMP CURB WHEN REQUIRED BY PLAN

2% MAX CROSS SLOPE (TYP)

A

S/W RADIUS AS SHOWN ON PLANS (TYP)

SEE NOTE 7 (TYP)

FL

PT

FL

FG

VARIES

EXPANSION JOINT AT CURB RETURN (TYP)

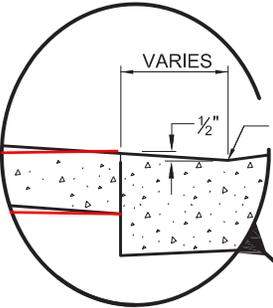
S/W WIDTH PER PLANS

4" ROLL CURB

5' TRANSITION FROM ROLL TO VERTICAL CURB PER DETAIL 221 WHEN REQUIRED

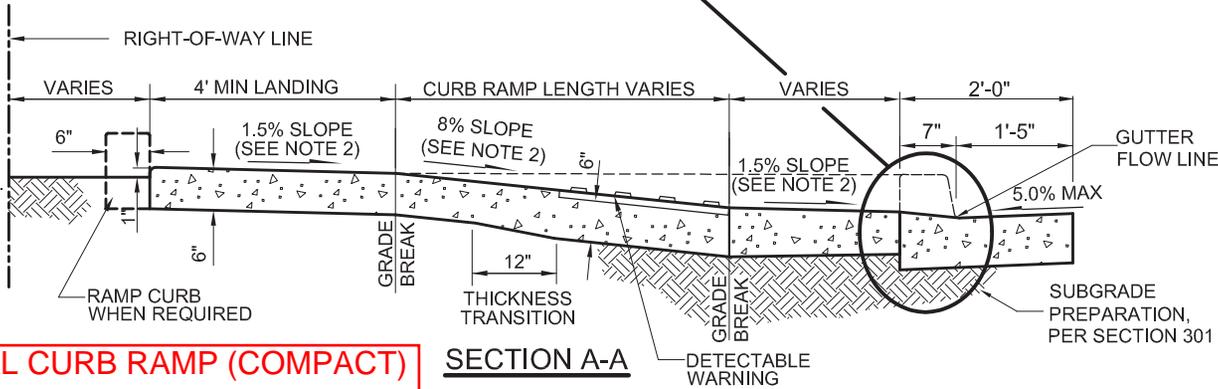
**SINGLE RAMP**

**DUAL RAMP**



**NOTES:**

1. CLASS 'A' CONCRETE PER SECTION 725, PC TO PT.
2. CONSTRUCTION INCLUDING JOINTS AND MAXIMUM SLOPES SHALL CONFORM TO SECTION 340.
3. WALKWAY SURFACE TO MATCH 1.5% SLOPE FROM TOP OF CURB.
4. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS.
5. SPECIAL DESIGN IS REQUIRED FOR GUTTER GRADES GREATER THAN 2%.
6. WING SLOPE SHALL NOT EXCEED 10% MEASURED PERPENDICULAR TO RAMP.
7. RAMP ALIGNMENT SHOULD CONNECT CONTROL POINT TO CONTROL POINT OF RECEIVING RAMP WITHIN 5 FEET.



**20' - 35' R - DIRECTIONAL CURB RAMP (COMPACT)**

**SECTION A-A**

~~20' R - DIRECTIONAL CURB RAMP ATTACHED SIDEWALK~~

DETAIL NO.  
**237-3**



STANDARD DETAIL  
**ENGLISH**

~~DRAFT~~  
01-01-2018

DETAIL NO.  
**237-3**