



# \*\* City Sidewalk / Drive Approach

ProjectAddress: \_\_\_\_\_

Applicant is:  Property Owner  Contractor  Architect  Engineer  Other \_\_\_\_\_

Applicant \_\_\_\_\_ E-mail \_\_\_\_\_

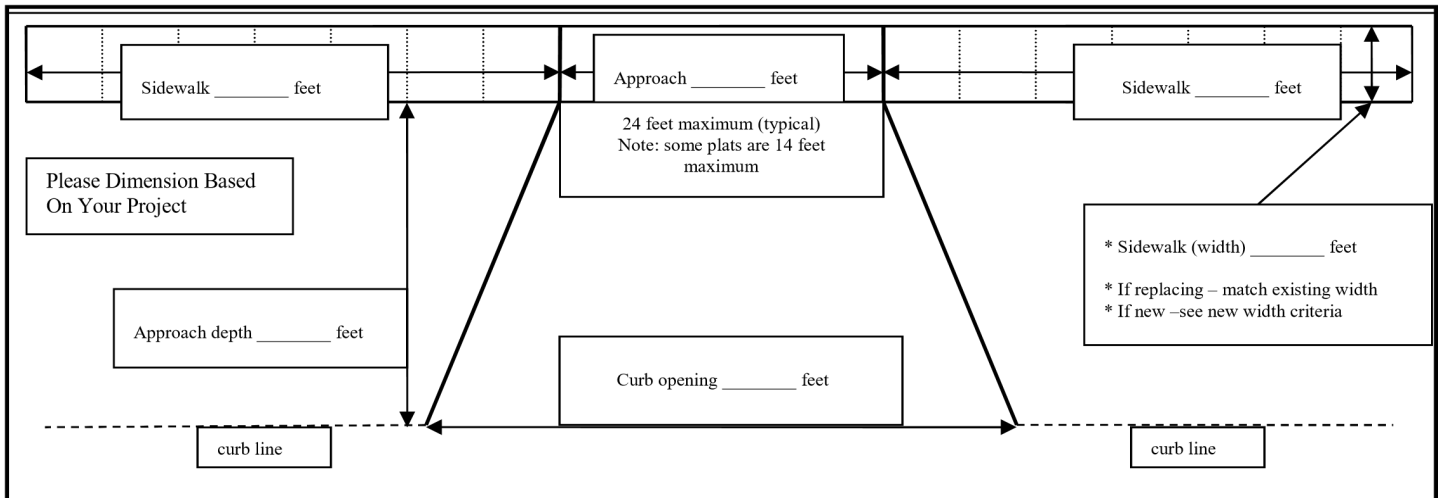
Address \_\_\_\_\_ Day Phone # \_\_\_\_\_

Contractor \_\_\_\_\_ E-mail \_\_\_\_\_

Address \_\_\_\_\_ Day Phone # \_\_\_\_\_

Residential Project  Non-residential Project

Is this proposed work for replacement of an existing sidewalk and/or drive approach?  Yes  No



\*\* Note: Excludes pedestrian ramps. If there are existing pedestrian ramps located within the proposed project limits, the applicant shall contact the Public Works Department before beginning any work. If a ramp exists call the Inspection Department @ 515-832-9151.

Inspections: Before the concrete is poured the completed formwork shall be made accessible to the Inspection Department for their inspection for compliance with the city standard specifications. Call in inspection request at least twenty-four hours in advance. For inspections call the Inspection Department @ 515-832-9151.

I hereby certify that I have read and examined this application and know the information I provided to be true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local laws regulating construction or the performance of construction.

Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

**ALLOW A MINIMUM OF 5 FULL WORKING DAYS FOR PERMIT REVIEW & APPROVAL**

Date received _____	Permit Fee \$ _____	Office Use Only
Approval Notification Date _____		

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The following information is provided for sidewalks and driveways constructed or re-constructed within the public right-of-way.

1. A permit is required for the removal, construction, or reconstruction of a sidewalk and/or driveway within the public right-of-way.
2. Inspections shall be called for at 515-832-9151 after the forms are set and at least one (1) business day prior to concrete placement.
3. In general, place back edge of sidewalk one (1) foot outside of property line within public right-of-way or as directed by the City.
4. Sidewalks shall be a minimum of four (4) inches in thickness except through driveways where they shall be a minimum of six (6) inches in thickness.
  - a. Oversized sidewalks eight (8) feet in width shall be a minimum of five (5) inches thick.
5. Sidewalks shall have a maximum allowable cross slope for sidewalks is 2.00% or 1:50. Target cross slope for sidewalks is 1.50%.
6. Provide full depth ½ inch expansion joint at lot corners and around sidewalk area through driveway. Seal approach joint at curb with bituminous sealer.
7. ADA-compliant pedestrian ramps shall be provided at street intersections. (note: this work shall be coordinated with the Inspection Department)
8. Promptly finish concrete with a non-skid broom finish.
9. Provide weakened plane joints four (4) feet on center for four (4) feet wide walks, five (5) feet on center for five (5) feet wide walks and eight (8) feet on center for eight (8) feet wide walks. Edge all sides.
10. Driveway approaches shall be a minimum of six (6) inches in thickness and shall match street thickness where it abuts the street.
11. Curb opening box outs shall be 2' by width of driveway.
12. Curb and gutter work shall not cause ponding of water and allow water to flow freely
13. Driveway width is limited in width based upon the size of the garage or parking spaces on the site. Width is measured at the sidewalk transition or at the property line as it relates to the size of the garage directly accessed from the street.

C. Dimensions

Figure 5L-4.01: Entrance Dimensions

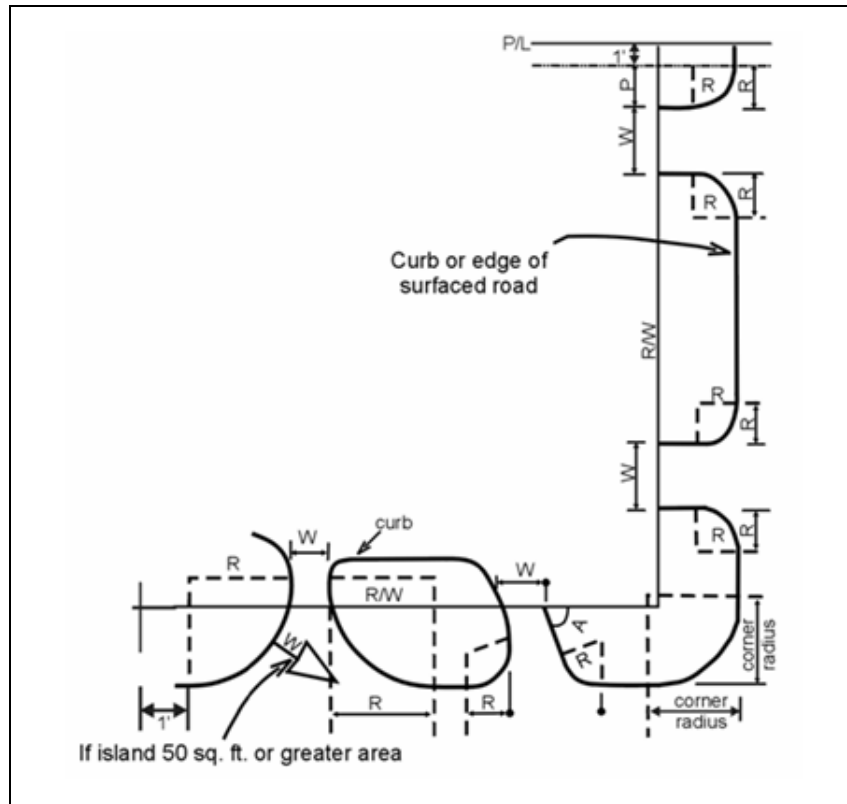


Table 5L-4.01: Driveway Dimensions<sup>1</sup>  
(all dimensions are in feet)

Dimension Reference (See Figure 5L-4.01)		Major Arterial Street				Minor Arterial Street				Collector (Major and Minor)				Local Street			
		Residential	Commercial	Industrial	Agricultural	Residential	Commercial	Industrial	Agricultural	Residential	Commercial	Industrial	Agricultural	Residential	Commercial	Industrial	Agricultural
Width																	
Minimum	W	15	24	24	20	15	24	24	20	10	24	24	20	10	24	24	20
Maximum		30	45	45	30	30	45	45	30	24	40	45	30	**	32	40	30
Right-turn Radius <sup>2</sup>																	
Minimum	R	10	10	25	25	10	10	25	25	10	10	25	25	10	10	10	20
Maximum		25	35	50	35	25	35	50	35	25	35	50	35	15	20	30	35
Min. Acute Angle <sup>3</sup>		60°	70°	70°	70°	60°	70°	70°	70°	60°	70°	70°	70°	60°	70°	70°	70°
Pref. Acute Angle	A	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
Min. Pavement Thickness (inches)	T	6/8	7/9	*	6	6	7	*	6	6	7	*	6	6	7	*	6

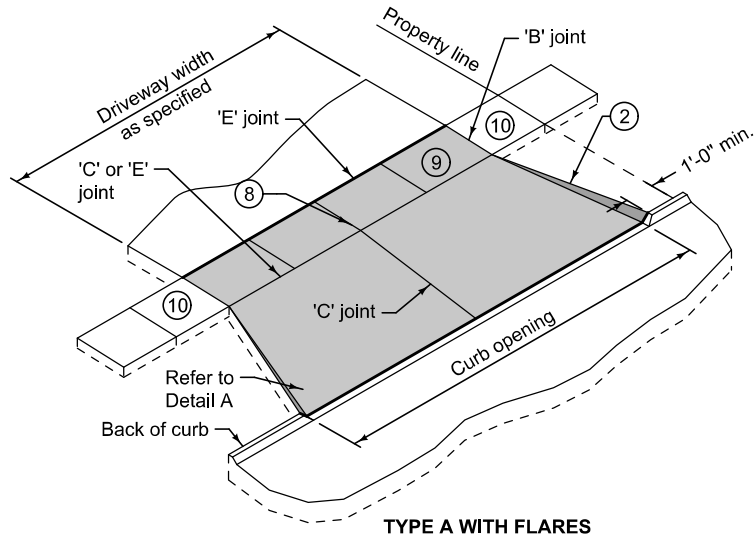
<sup>1</sup> Major entrances require special design.

<sup>2</sup> 3 to 5 foot flares (F) may be used for residential and agricultural entrances.

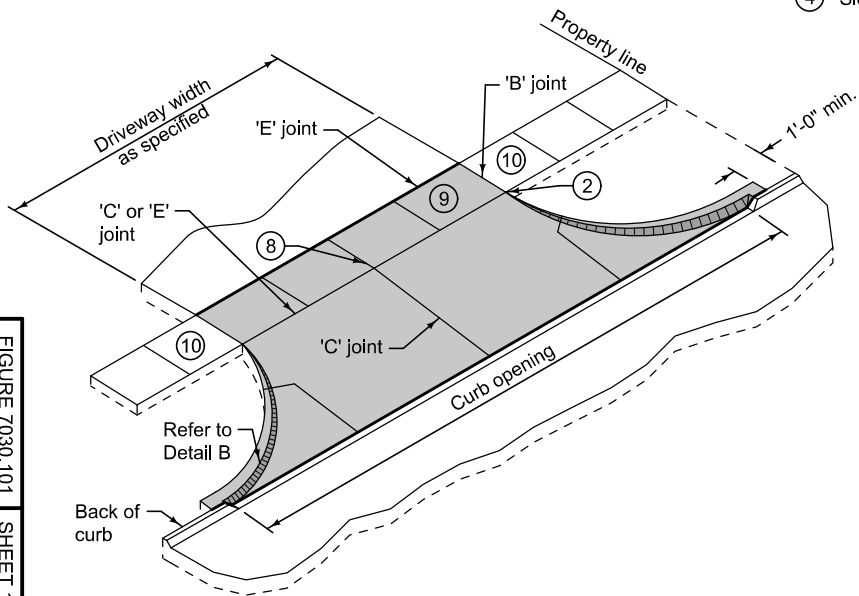
<sup>3</sup> Any variation from 90° will be evaluated on a case by case basis. The minimum acute angle (measured from the edge of the pavement) is 60°.

\* Requires special design.

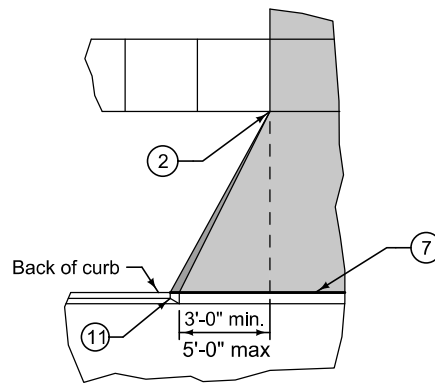
\*\* Maximum width of 12 feet per garage stall up to a total maximum of 36 feet except when located on a cul-de-sac bulb where the maximum width is 24 feet. See jurisdiction policy for specific requirements.



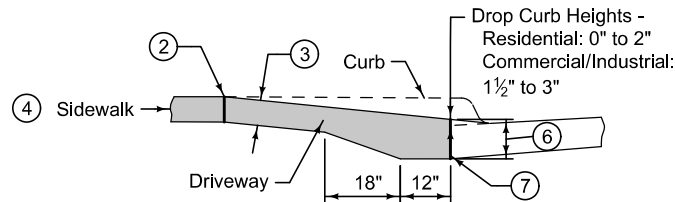
**TYPE A WITH FLARES**



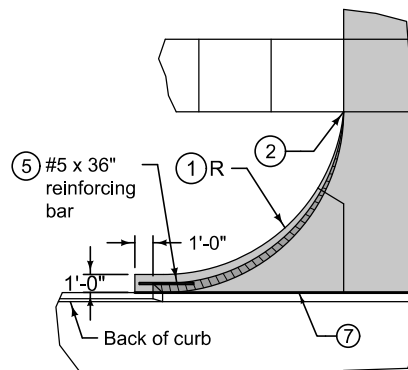
**TYPE A WITH RADII**



**DETAIL A**  
(Residential/Agricultural Only)




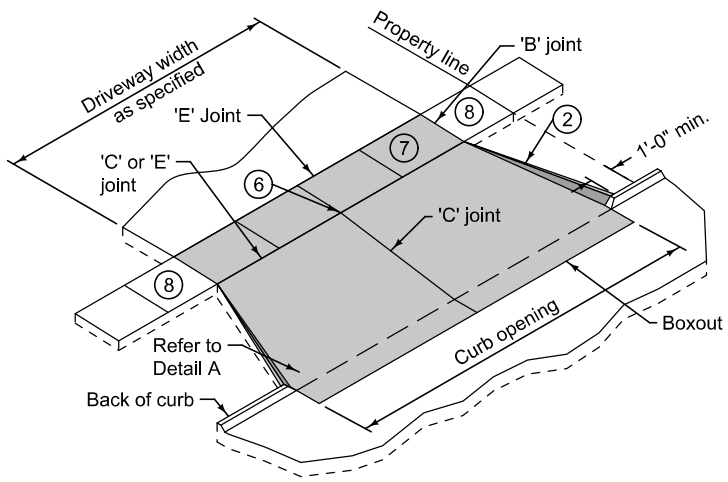
**TYPICAL SECTION**



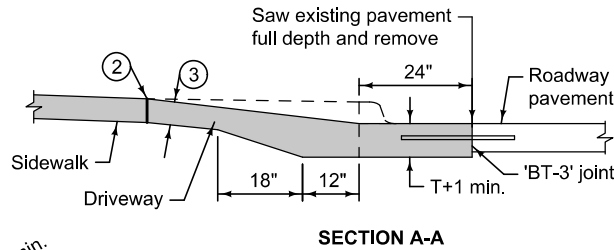
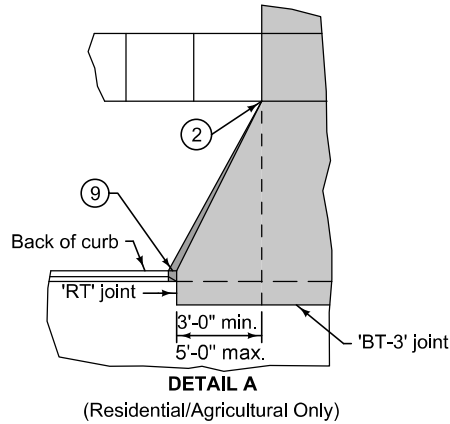
**DETAIL B**

- ① Driveway radius (R).  
Residential: 10 foot minimum, 15 foot maximum.  
Commercial and industrial: As specified in the contract documents.
- ② Transition the curb height to 0 inches at end of taper/radius or at the front edge of sidewalk. Do not extend raised curb across sidewalk.
- ③ Pavement thickness.  
Residential: 6 inches minimum.  
Commercial and industrial: 7 inches minimum.
- ④ Sidewalk thickness through driveway to match thickness of driveway.
- ⑤ Center reinforcing bar vertically in the pavement.
- ⑥ Match thickness of adjacent roadway, 8 inches minimum.
- ⑦ Provide 'E' joint at back of curb unless 'B' joint is specified.
- ⑧ For alleys, invert the pavement crown 2% toward center of alley.
- ⑨ Target cross slope of 1.5% with a maximum cross slope of 2.0%. If specified in the contract documents, construct the sidewalk through the driveway 5 feet wide to serve as a passing space.
- ⑩ If cross slope of adjacent sidewalk panel exceeds 2.0%, remove and replace to transition from existing sidewalk to sidewalk through driveway. If elevation change requires a curb ramp, comply with Figure 7030.205; verify need for detectable warning panel with Engineer.
- ⑪ Transition street curb at minimum 1:1 slope to meet driveway curb.

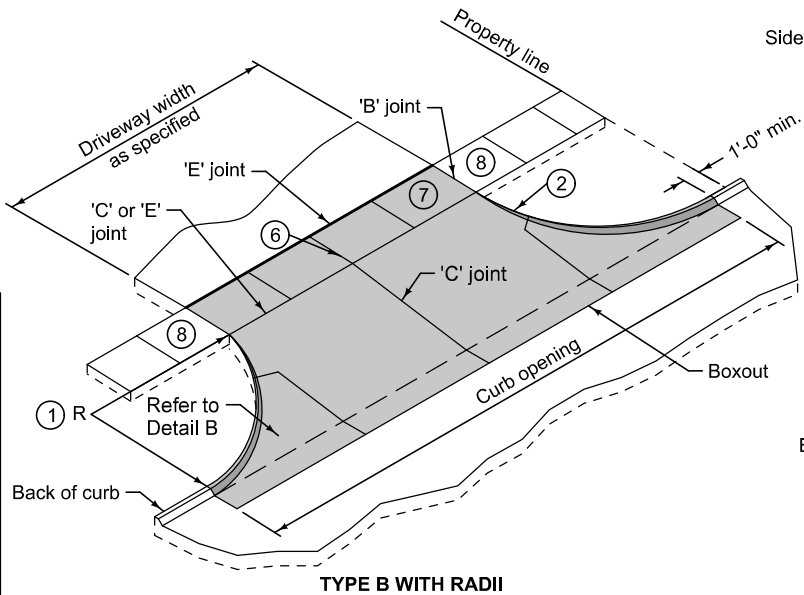
	REVISION 4   2022 Edition
	<b>7030.101</b> SHEET 1 of 1
<b>SUDAS Standard Specifications</b>	
<b>CONCRETE DRIVEWAY, TYPE A</b>	



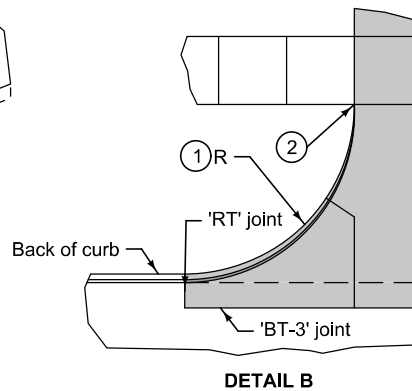
**TYPE B WITH FLARES**



**SECTION A-A**




**TYPE B WITH RADII**



**DETAIL B**

- ① Driveway radius (R).  
Residential: 10 foot minimum, 15 foot maximum.  
Commercial and industrial: As specified in the contract documents.
- ② Transition the curb height to 0 inches at end of taper/radius or at the front edge of sidewalk. Do not extend raised curb cross sidewalk.
- ③ Pavement thickness.  
Residential: 6 inches minimum.  
Commercial and industrial: 7 inches minimum.
- ④ Sidewalk thickness through driveway to match thickness of driveway.
- ⑤ If longitudinal joint is located 48 inches or less from the back of curb, extend boxout to joint line. Full depth saw cut is still required.
- ⑥ For alleys, invert the pavement crown 2% toward the center of the alley.
- ⑦ Target cross slope of 1.5% with a maximum cross slope of 2.0%. If specified in the contract documents, construct the sidewalk through the driveway 5 feet wide to serve as a passing space.
- ⑧ If cross slope of adjacent sidewalk panel exceeds 2.0%, remove and replace to transition from existing sidewalk to sidewalk through driveway. If the elevation change requires a curb ramp, comply with Figure 7030.205; verify need for detectable warning panel with Engineer.
- ⑨ Transition street curb at minimum 1:1 slope to meet driveway curb.

	REVISION 5   2023 Edition
	<b>SUDAS</b> <b>7030.102</b> SHEET 1 of 1
SUDAS Standard Specifications	
<b>CONCRETE DRIVEWAY, TYPE B</b>	