ADDENDUM No. 8

TO THE CITY OF FRESNO PUBLIC WORKS STANDARD DRAWINGS AND SPECIFICATIONS ADOPTED MARCH 4, 1970, BY RESOLUTION NO. 70-36

THIS UPDATED VERSION IS APPROVED: JANUARY 30, 2023

This addendum is attached to, and made a part of, the above-entitled standard specifications.

The following City Standard Drawings have been amended as indicated below:

- 1. The order of the Standard Drawings has been changed as follows: P, API, FAX, E, ITS, W, RW
- 2. Most drawings received minor drafting and typographical edits to detail and callouts for clarity, any such changes that result in practical differences are annotated below.

		DPW – PUBLIC WORKS				
P-9		Clarified/edited dimensions for "Residential Streets with Wedge Curbs".				
	2.	Reduced sidewalk width by 1'-0" and added "1'-0" Clear" to detail: "Residential Streets with				
		Wedge Curbs and Adjacent Sidewalks".				
P-31	1.	Ramp revised to graphically show grade breaks perpendicular to the path of travel to comply with				
		ADA requirements and expectations.				
	2.	Added Note 14: "GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMP RUNS SHALL BE				
PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NO						
		PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACES. SURFACE SLOPES THAT				
		MEET AT GRADE BREAKS SHALL BE FLUSH."				
		Dimension: "5' MIN." moved to back of ramp.				
		Dimension: "6' MIN." revised to read: "6.5' MIN." Added dimension: "3' MIN." behind truncated domes.				
	-	Callout: "OPTIONAL: 12" GROOVED BORDER PER P-28, SEE NOTE 14, THIS SHEET" revised to read:				
	0.	"OPTIONAL: SEE NOTE 5"				
	 Content of the second se					
	13"					
	8.	Callout: "SEE NOTES 4 & 5" revised to read: "SEE NOTES 1 & 6".				
P-32	1.	Note 1: "THE DETECTABLE WARNING SHALL VISUALLY CONTRAST PER THE CALIFORNIA BUILDING				
		CODE, LATEST REVISION. THE MATERIAL USED SHALL BE AN INTEGRAL PART OF THE WALKING				
		SURFACE. THE COLOR SHALL BE YELLOW UNLESS DIRECTED OTHERWISE BY CONSTRUCTION				
		MANAGEMENT." revised to read: "THE DETECTABLE WARNING SHALL VISUALLY CONTRAST PER				
		THE CALIFORNIA BUILDING CODE, LATEST REVISION. THE MATERIAL USED SHALL BE AN INTEGRAL				
		PART OF THE WALKING SURFACE. THE COLOR SHALL BE YELLOW AND APPROXIMATE FS 33538 OF				
		SAE AMS-STD-595A."				
P-52	1.	Incorporated Note 3 into Note 1: "USE 26' MEDIAN WHEN DUAL LEFT TURNS ARE REQUIRED",				
		revised to read: "USE 26' MEDIAN WIDTH WHEN DUAL LEFT TURNS ARE REQUIRED. USE OF A 22'				
MEDIAN IS ALLOWED ONLY WHEN AN ARTERIAL HAS BEEN SPECIFICALLY PLANNED						
		MEDIAN ISLAND.				
	2	Note 2: "OFFSET CROWN REQUIRES APPROVAL OF THE ENGINEER DEVIATIONS FROM				
		STANDARDS REQUIRE APPROVAL OF THE ENGINEER." revised to read: "USE OF AN OFFSET				
		STANDARDS REQUIRE AT NOVAL OF THE ENGINEER. TEVISER LOTEAR. OSE OF AN OTISET				

		CROWN OR OTHER DEVIATIONS FROM THIS STANDARD REQUIRES PRIOR APPROVAL OF THE CITY			
		TRAFFIC ENGINEER."			
		Note 3 removed.			
		Note 4 renumbered to Note 3.			
		Note 5 renumbered to Note 3			
	6.	Case 1 Detail revised as follows:			
		a. ROW width dimension: "100' (106')" revised to read: "100'-104'"			
		b. Left half-street dimension: "50'" revised to read: "52' (RESIDENTIAL)"			
		c. Left sidewalk pattern dimension: "10'" revised to read: "12'"			
		d. Left sidewalk width dimension: "4" revised to read: "6""			
		e. Right half-street dimension: "50'" revised to read: "50' (COMMERCIAL)"			
		f. Median width dimension: "16' (22') MEDAIN" revised to read: "16' MEDIAN SEE NOTE 1"			
	7.	Case 2 Detail revised as follows:			
		a. ROW width dimension: "110" revised to read: "110'-114"			
		b. Left half-street dimension: "55'" revised to read: "55' (RESIDENTIAL)"			
		c. Left sidewalk pattern dimension: "10'" revised to read: "12'"			
		d. Left sidewalk width dimension: "4" revised to read: "6""			
		e. Left #2 travel lane dimension: "13'" revised to read: "18'"			
		f. Right half-street dimension: "55'" revised to read: "55' (COMMERCIAL)"			
		g. Median width dimension: "16' MEDAIN" revised to read: "16' MEDIAN SEE NOTE 1"			
	8.	Case 3 Detail revised as follows:			
		a. ROW width dimension: "110" revised to read: "110'-114'"			
		b. Left half-street dimension: "55'" revised to read: "55' (RESIDENTIAL)"			
		c. Left sidewalk pattern dimension: "10'" revised to read: "12'"			
		d. Left sidewalk width dimension: "4" revised to read: "6""			
		e. Right half-street dimension: "55'" revised to read: "55' (COMMERCIAL)"			
		f. Bike lane dimensions: "5" revised to read: "6"			
		g. #2 travel lane dimensions: "12'" revised to read: "11'"			
		h. Median width dimension: "16' MEDAIN" revised to read: "16' MEDIAN SEE NOTE 1"			
P-54	1.	Modified dimensions on "COLLECTOR STREET WITH PARKING" cross-section as follows: changed			
		the bike lane width from 5' to 6' on both sides to comply with P-79 (Addendum 7). The two-way			
		left -turn lane was reduced from 12' to 10' to provide the additional bike lane width.			
	2.	Minor changes made to graphics and presentation.			
P-56B		Standard drawing title, "LOCAL STREET CROSS-SECTIONS (WITH WEDGE CURBS)" revised to read,			
		"LOCAL STREET CROSS-SECTIONS ALTERNATIVE WIDTHS/WEDGE CURBS"			
		Modified detail dimensions to accurately reflect sidewalk pattern dimensions per Std. Det. P-9.			
		Supplemental note " * " revised to include reference to Std. Det. P-9.			
	4.	Minor graphical edits for clarity.			
P-71	1.	New Standard Drawing, "STANDARD PAVEMENT UNDULATION".			
P-72		Renumbered to FAX-1. Refer to that Standard Drawing for additional details and changes in this Addendum.			
P-73		Renumbered to FAX-2; reinforced curb detail moved to FAX-4. Refer to those Standard Drawings for additional details and specific changes included with this Addendum.			

P-81	1. New Standard Drawing, "TRAIL BENCH LAYOUT WITH OPTIONAL REPAIR STAND".

	FAX – FRESNO AREA EXPRESS
FAX-1	 New Standard Drawing based on P-72. Drawing title changed from, "BUS STOP WITH SHELTER LAYOUT" to "BUS STOP WITH SHELTER LAYOUT PLAN". References to P-73 changed to reference FAX-3 or FAX-4, as appropriate. Added callout, "2% CROSS SLOPE, MAX." to bench area of plan view.
FAX-2	 New Standard Drawing based on P-73. Reinforced curb and gutter "DETAIL" and construction notes #2 and #4 moved to Standard Drawing FAX-4. The bus bay layouts were graphically modified to improve readability and reduce user confusion – no technical changes were made except as noted herein. City ROW lines are shown in detail for orientation purposes. Layout, "MID BLOCK" renamed: "MID BLOCK OPTION 2" New layout, "MID BLOCK OPTION 1" added. Note 3 renumbered to note 2 Note 5 renumbered to note 3 Note 6 renumbered to note 4 Added note #5, "USE WHEN TRAVEL LANE IS <20' (LANE LINE TO FACE OF CURB). CITY ENGINEER MUST APPROVE USE." Dimension, "SEE BELOW FOR CURB & GUTTER IN THIS AREA" revised to read, "REINFORCED CURB AND GUTTER PER STD. DWG. FAX-4". Multiple occurrences.
FAX-3	1. New Standard Drawing: "BUS LAYOVER PAD CONSTRUCTION DETAIL & NOTES"
FAX-4	 NEW Standard Drawing: "BUS BAY DETAILS". Includes detail, "REINFORCED CURB AND GUTTER" previously shown on Std. Dwg. P-73. Callouts included on previous detail were converted to Notes 3-5. No technical changes were made to detail.

	DPW – ELECTRICAL
E-1	 Minor changes to BASE DETAIL, including clearer depiction of sidewalk concrete section and removal of linework and callouts referring to "FORMED" concrete. Added callout to BASE DETAIL: "SIDEWALK". Added leader to "TOP OF FOUNDATION" callout.
E-1A	1. New Standard Drawing, "STREETLIGHT – OVERHEAD FEED".
E-5	 Drawing modified to depict/require all leads to be pulled/looped in the pole handhole. Added note 2: "ALL CONDUCTORS SHALL BE PULLED INTO HANDHOLLE WITH 18" MIN. SLACK PROVIDED".
E-27	 Standard Drawing title: "SIGNAL LIGHT FOUNDATION WIRE-WAY DETAIL" revised to read: "SIGNAL & STREET LIGHT FOUNDATION AND WIRE-WAY DETAIL" Drawing modified to depict sidewalk, show entire foundation including anchor bolts and light pole base plate mounting. Added detail: "ANCHOR CONNECTION DETAIL" and table for min./max. offset between top of sidewalk and bottom of base plate.

4. Added various callouts to base detail regarding materials and construction requirements.

DPU – WATER			
1. Added Note 4, "FIRE HYDRANTS SHALL BE PLACED AT INTERVALS OF 600' FOR RESIDENTIAL			
DEVELOPMENTS AND 450' FOR COMMERCIAL DEVELOPMENTS. LOCATION APPROVAL REQUIRED			
BY CITY FIRE DEPARTMENT."			

The following City Standard Specifications have been amended as indicated below:

- 1. Updated formatting and page numbering throughout specification document.
- 2. Update Caltrans standard specification references throughout document.

21-9.1	 Updated reference to correct standard drawings identifying the location for underground utilities in local and major streets
22	1. Corrected subsection numbering to reflect correct specification section
23	 Updated the State Standard Specification reference to from 1997 Edition to 1995 Edition, throughout Updated the reference to State Standard Specification Subsection 56-3 to 86-3.01, throughout
23-1.7	 Updated the language related to the anchor bolts and nuts regarding their distance to the sidewalk and provided a range in which they can be located vertically
23-3.7	1. Updated the language related to the location of the base plate relative to the sidewalk

Addendum 8 to the Public Works Standard Drawings and Specifications, dated January 30, 2023

Reviewed and Approved:

Senel

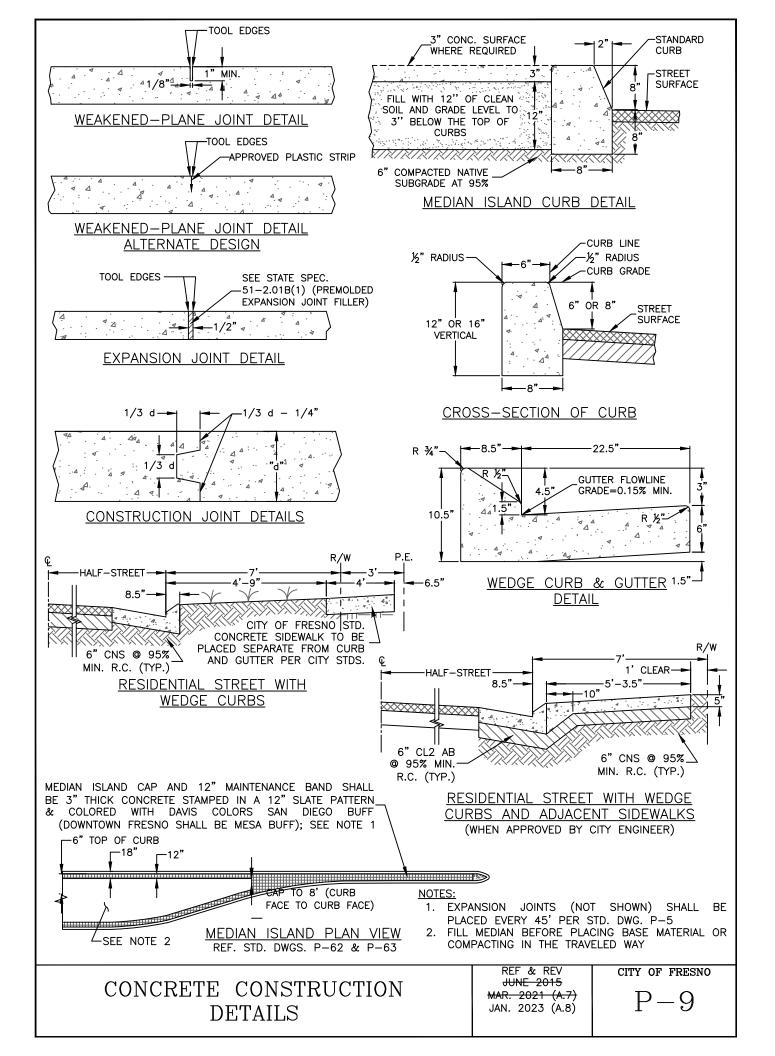
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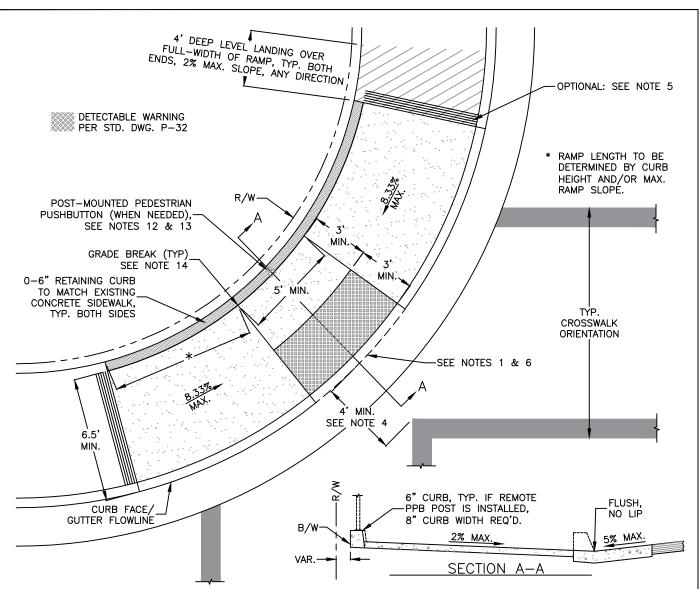
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Scott Mozier, P.E.

Scott Mozier, P.E. Public Works Director

February 1, Date 2023

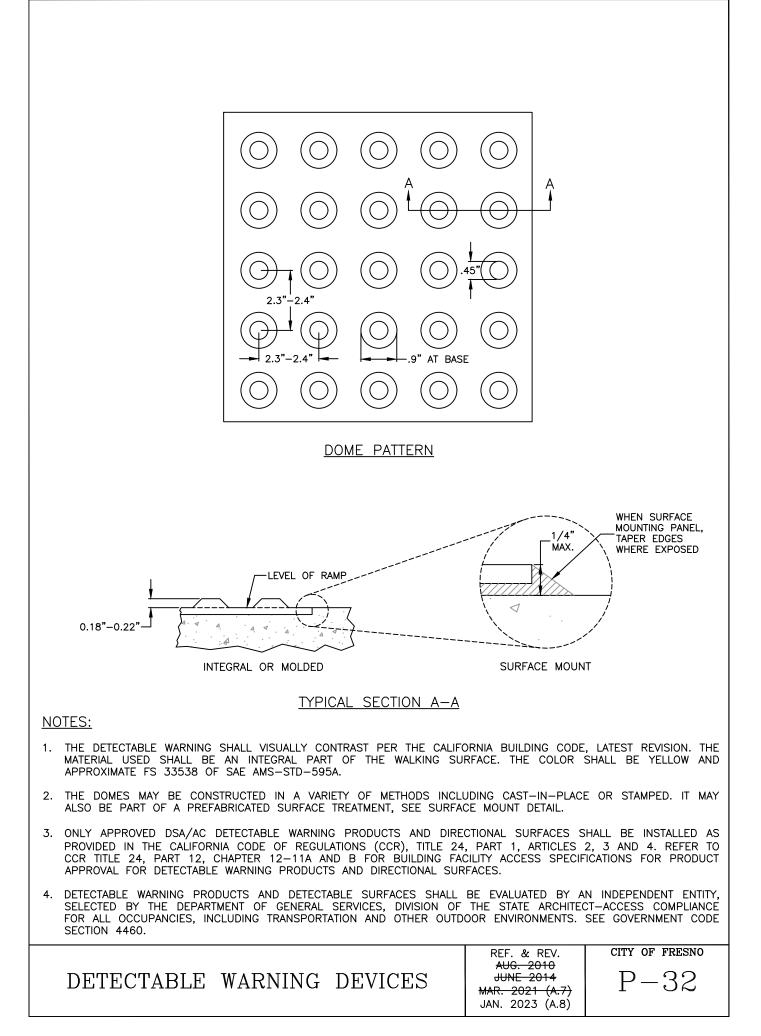


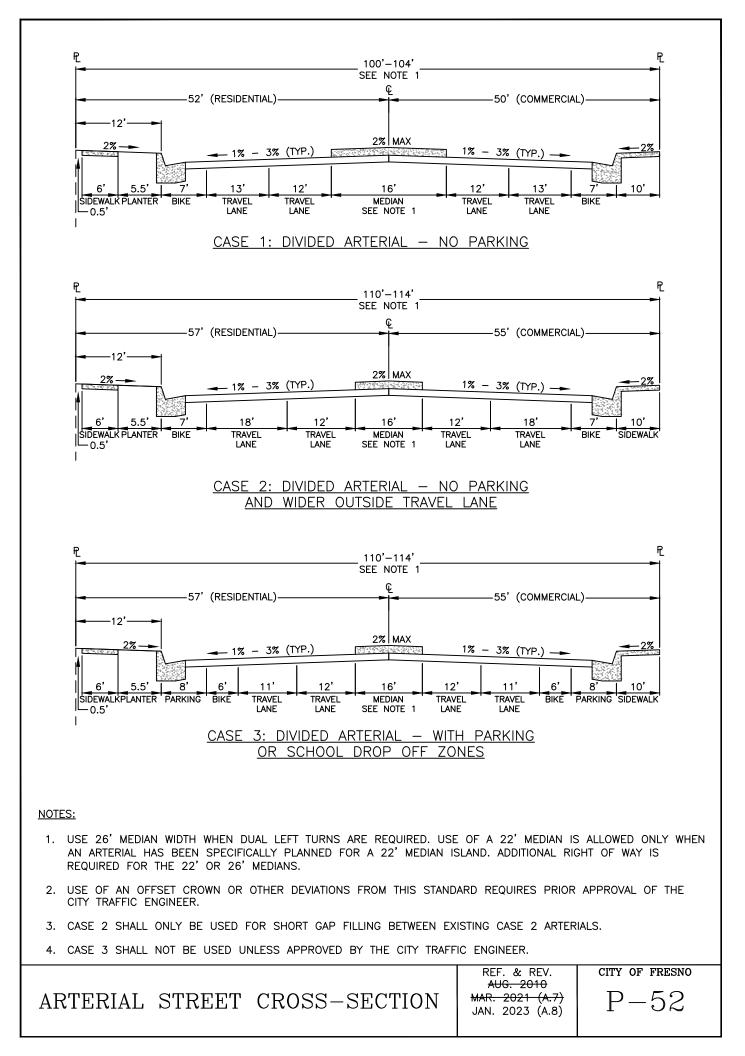


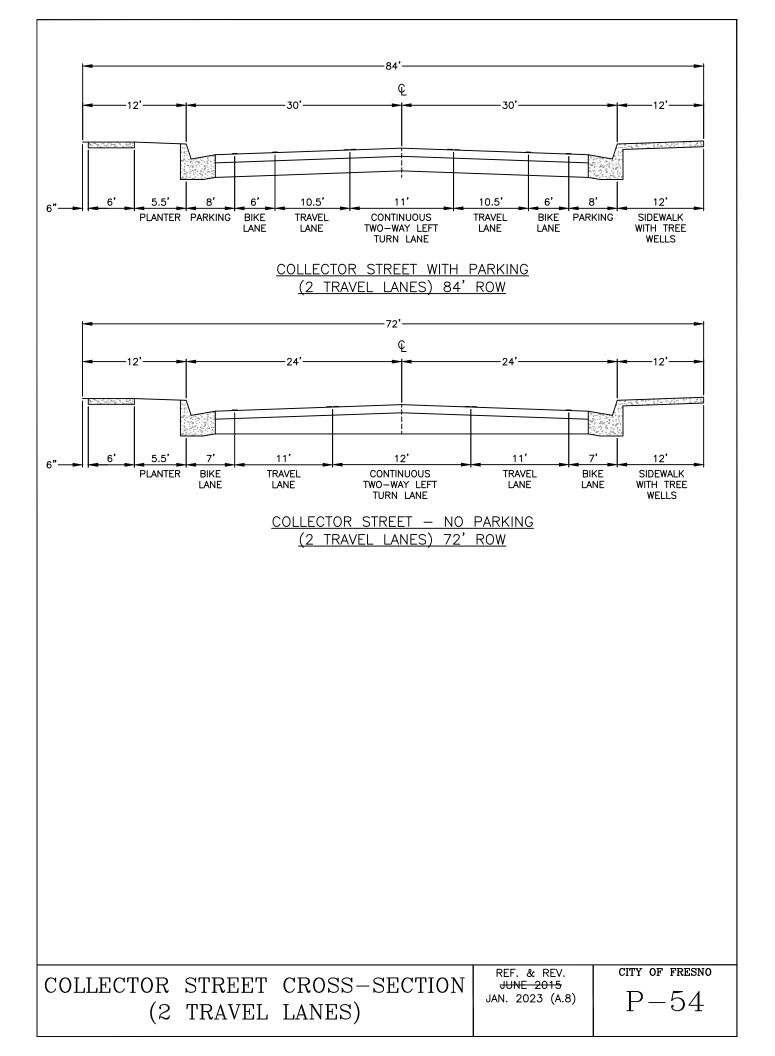
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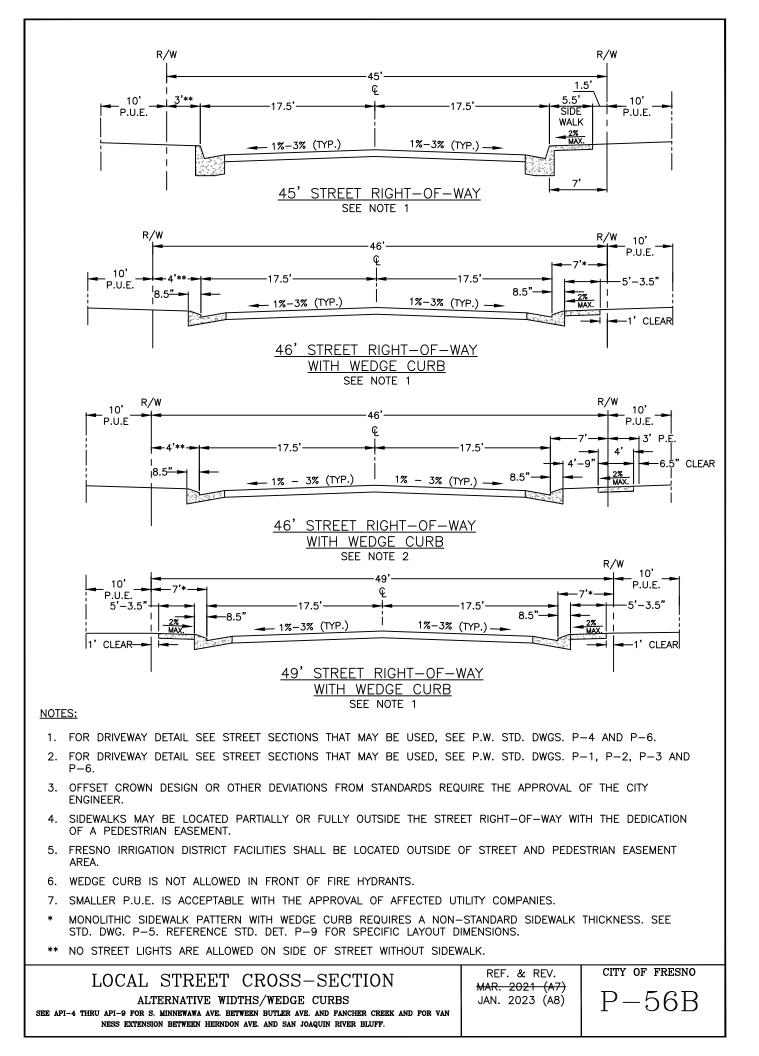
- TRANSITIONS FROM RAMPS AND LANDING TO WALK, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
- SURFACE OF CURB RAMP SIDES SHALL HAVE BROOM FINISH TRANSVERSE TO PATH OF TRAVEL AND SHALL BE OF CONTRASTING 2. FINISH TO THAT OF ADJACENT SIDEWALK.
- RAMP SLOPE SHALL NEVER EXCEED 8.33%.
- THE SLOPE OF ADJOINING GUTTERS, ROAD SURFACE OR ACCESSIBLE ROUTE WITHIN 4' OF THE BOTTOM OF THE RAMP SHALL 4. NOT EXCEED 5% SLOPE.
- (OPTIONAL) PROVIDE A 12" WIDE GROOVED BORDER AT THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP OF THE RAMP. 5.
- 6
- GROOVES SHALL BE APPROX. 1/4" DEEP, 1/4" WIDE AND SPACED 3/4" ON CENTER. THE LOWER LANDING AREA LEADING INTO VEHICULAR WAY SHALL TERMINATE WITHIN THE MARKED CROSSING. PROVIDE A MIN. 4' DEEP LEVEL LANDING ON UPPER ENDS AND OVER FULL—WIDTH OF RAMP. MAINTAIN A 2% MAX. SLOPE, ANY DIRECTION.
- RAMP AND LOWER LANDING SHALL BE MINIMUM OF 5' WIDE AND SHALL LIE GENERALLY IN A SINGLE SLOPED PLANE WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.
- CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS. q
- 10. ON THE BOTTOM LANDING WITH A 2% MAX. SLOPE, WHERE WALK ADJOINS A VEHICULAR WAY, INSTALL A 36" BAND OF TRUNCATED DOMES, IN-LINE PATTERN PER P.W. STD. P-32, THE FULL WIDTH OF THE LANDING.
- 11. THIS RAMP TYPE SHALL ONLY BE USED WHEN NECESSARY DUE TO R/W OR PHYSICAL CONSTRAINTS. IT MAY BE UTILIZED FOR DIAGONAL OR DUAL RAMP APPLICATIONS.
- 12. MODIFIED RAMPS PLACED ON SIGNALIZED INTERSECTIONS SHALL HAVE A PEDESTRIAN PUSH BUTTON ON THE ADJACENT SIGNAL POLE PER CA-MUTCD 4E.08. IN INSTANCES WHERE THIS IS NOT FEASIBLE THE PEDESTRIAN PUSHBUTTON SHALL BE INSTALLED ON A REMOTE POST LOCATED AT THE LOWER LANDING AREA, THE CURB WIDTH SHALL BE INCREASED ACCORDINGLY TO ACCOMMODATE THE POST INSTALLATION.
- 13. PUSH BUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE CROSSWALK LINE FURTHEST FROM THE CENTER OF THE THE INTERSECTION AND AS CLOSE ASPOSSIBLE TO THE CURB RAMP. IF TWO ACCESSIBLE PEDESTRIAN PUSHBUTTONS ARE PLACED LESS THAN 10 FEET APART OR ON THE SAME POLE, EACH PEDESTRIAN PUSHBUTTON SHALL BE PROVIDED WITH A PUSHBUTTON LOCATOR TONE, TACTILE ARROW, SPEECH WALK MESSAGE FOR THE WALK INDICATION,
- AND A SPEECH PUSHBUTTON INFORMATION MESSAGE. REFER TO THE CA-MUTCO FOR SPECIFIC GUIDANCE. 14. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACES. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.

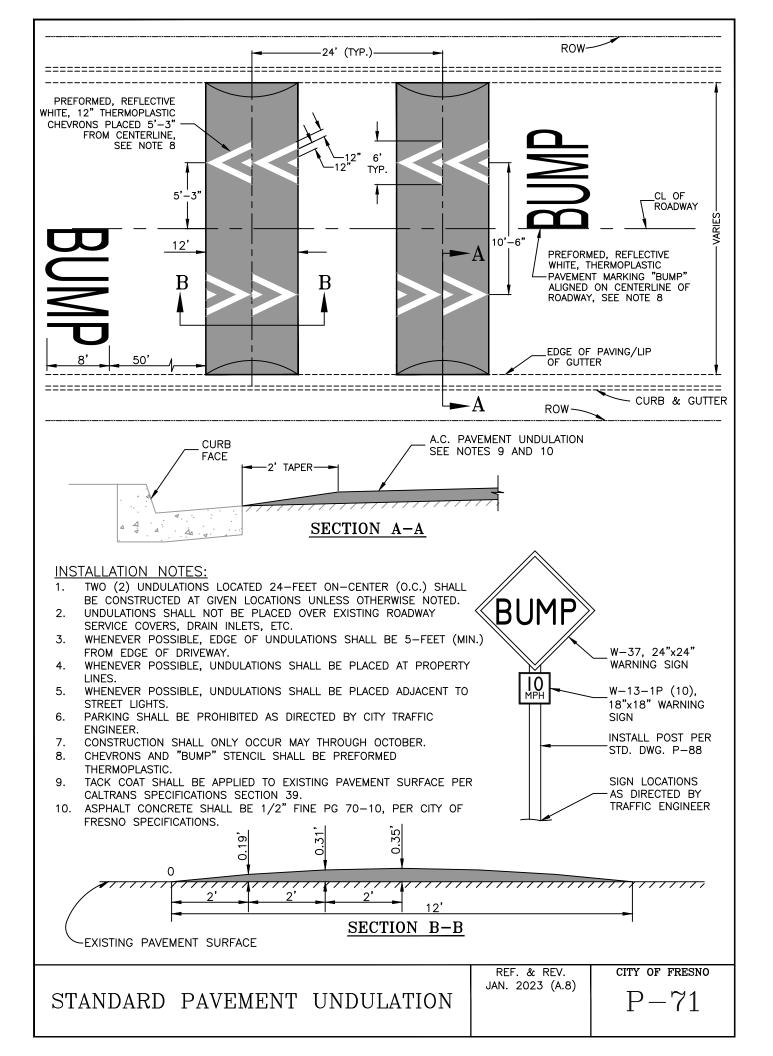
MODIFIED CU	RB RAMP	REF. & REV. JUNE 2014 MAR. 2021 (A.7) JAN. 2023 (A.8)	city of fresno $P - 31$











THIS STANDARD IS NO LONGER USE	REF. & REV. JULY 2011	CITY OF FRESNO
NO LONGER USED	JULY 2011 MAR. 2021 (A.7) JAN. 2023 (A.8)	P-72

THIS STANDARD IN NO LONGER USE		CITY OF FRESNO
NO LONGER USED	REF. & REV. AUG. 2002 MAR. 2021 (A.7) JAN. 2023 (A.8)	P-73

