





















# SPECIFICATIONS FOR THE SUBDRAIN TRENCH SYSTEM:

- 1. <u>CRUSHED ROCK:</u> CONTRACTOR SHALL PLACE CLEAN TYPE C CRUSHED ROCK CONFORMING TO SECTION 10-17 OF THE STANDARD SPECIFICATIONS.
- 2. <u>PERFORATED DRAIN PIPE:</u> PERFORATED PIPE SHALL BE POLYVINYL CHLORIDE (PVC) PIPE WITH PERFORATIONS THROUGHOUT THE LENGTH OF THE PIPE AND CONFORMING TO THE APPLICABLE PORTIONS OF AASHTO M252. ALTERNATIVELY, PIPE MAY BE PERFORATED CORRUGATED POLYETHYLENE TUBING CONFORMING TO THE APPLICABLE PORTIONS OF AASHTO M252 OR M294.
- 3. <u>FILTER FABRIC:</u> FILTER FABRIC SHALL CONFORM WITH SECTIONS 68-1.03, 88-1.01, AND 88-1.03 OF THE CALTRANS STANDARD SPECIFICATIONS.

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CITY OF SACRAMENTO		APPROVED BY: Nader Hamal		
DEPARTMENT OF PUBLIC WORKS	DETAIL	DATE:	APRIL 2	020 DWG. NO. I - 40

# 1) SIDEWALK TRANSITIONS

- \* LOCATED ABOVE RAMP OR LANDING
- \* 48" MINIMUM WIDTH
- \* 2% (1:50) MAXIMUM CROSS SLOPE AT RAMP OR LANDING
- \* 8.33% (1:12) MAXIMUM SLOPE

#### 2) <u>LANDINGS</u>

- \* LOCATED ABOVE RAMP
- \* 48" MINIMUM DIMENSION IN ALL DIRECTIONS
- \* 2% (1:50) MAXIMUM CROSS SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL

### 3) RAMPS

- \* LOCATED ABOVE PAN OR BELOW LANDING
- \* 48" MINIMUM WIDTH
- \* 2% (1:50) MAXIMUM CROSS SLOPE
- \* 8.33 % (1:12) MAXIMUM SLOPE
- \* TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES

### 4) PANS

- \* LOCATED BELOW RAMP
- \* 48" MINIMUM AT BACK OF PAN
- \* 48" MINIMUM FROM BACK OF PAN TO BACK OF CURB LINE (BOC)
- \* 1% (1:100) MINIMÚM SLOPE FROM BACK OF PAN TO FLOW LINE
- \* 2% (1:50) MAXIMUM CROSS SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL
- \* ON CORNERS, PAN BOUNDARIES ARE TO BE RADIAL
  \* TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES

# 8) <u>CONCRETE COLORING</u>

# 5) <u>GUTTERS</u>

- \* ADJACENT TO RAMP OR PAN
  \* 5% (1:20) MAXIMUM SLOPE MEASURED 4' FROM FOC OUT TO STREET PAVEMENT FOR FULL WIDTH OF RAMP.
- \* TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES

### 6) <u>FLARES</u>

- \* LOCATED ADJACENT TO RAMP
- \* REQUIRED BETWEEN RAMPS WHERE THERE IS NO PLANTER AREA
- \* REQUIRED ON THE EXTERIOR OF RAMPS WHERE THERE IS AN ADJACENT CONCRETE SIDEWALK, REGARDLESS OF OBSTACLES
- \* GENERALLY TRIANGULAR IN NATURE
- \* 10% (1:10) MAXIMUM SLOPE

# 7) <u>RETAINING CURBS</u>

- \* REQUIRED ADJACENT TO SIDEWALK TRANSITIONS, LANDINGS, RAMPS AND PANS WHERE THE EXISTING LANDSCAPE (PLANTER AREA) IS 4" OR HIGHER AT ANY POINT ABOVE THE NEWLY CONSTRUCTED CURB RAMP ELEMENT
- REQUIRED FOR EXISTING PLANTER AREAS BETWEEN RAMPS
- \* RETAINING CURBS ARE TO HAVE A 6" WIDTH AND A VERTICAL FACE
- \* RETAINING CURB FOUNDATIONS ARE TO EXTEND 8" BELOW THE ADJACENT RAMP ELEMENT SURFACE
- \* OUTSIDE CORNERS OF RETAINING CURBS MUST HAVE A 6" RADIUS
- \* LAMP BLACK OR OTHER COLORING SHALL BE ADDED TO NEW CONCRETE AS NECESSARY TO MATCH EXISTING COLOR. THIS APPLIES TO ALL INFILL LOCATIONS

### 9) <u>GENERAL NOTES:</u>

- \* DUAL CURB RAMPS ARE REQUIRED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- \* ALL ELEMENTS, EXCEPT GUTTERS AND RETAINING CURBS, MUST BE CONSTRUCTED PLANAR IN NATURE WITH WEAKENED PLANE JOINTS SCORED BETWEEN EACH ELEMENT.
- \* WHEN FEASIBLE, OPPOSING CURB RAMPS SHALL ALIGN.
- \* THESE DEFINITIONS AND STANDARDS, GENERAL DETAILS, AND STANDARD DRAWINGS SHALL APPLY TO ALL CURB AND GUTTER TYPES.
- \* THERE ARE VARIATIONS AND ADJUSTMENTS THAT MAY BE REQUIRED UPON THE APPROVAL OF THE ENGINEER.
- \* THERE ARE NO VARIANCES TO THE MAXIMUM ALLOWABLE SLOPES AND CROSS SLOPES.

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	CURB RAMP ELEMENTS DEFINITIONS AND STANDARDS	APPROVED BY: Nader Fame		
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# NOTES:

1. MATERIALS

3-2"x6"x16' WOOD PLANKS - TREATED DOUGLAS FIR 2-6"x6"x7' WOOD POSTS - TREATED DOUGLAS FIR 1-18"x18" TYPE N (RED) REFLECTORIZED SIGN

IN CONFORMANCE WITH SEC. 56-2.02 CALTRANS STANDARD SPECIFICATIONS

#### 2. INSTALLATION

PLANKS SHALL BE FASTENED TO POSTS WITH 5/16" CARRIAGE BOLTS. CUT WASHERS, AND SAFETY NUTS. ALL HARDWARE GALVANIZED.

#### 3. LOCATION

THE LOCATION SHALL BE AS SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER.

#### 4. PAINT

TWO COATS OF EXTERIOR GRADE WHITE PAINT CONFORMING TO CALTRANS STANDARD SPECIFICATIONS SECTION 91-3.02 SHALL BE APPLIED TO ALL EXPOSED WOOD SURFACES.

#### 5. BARRICADE MUST BE FULL WIDTH BETWEEN FACES OF CURBS WHERE REQUIRED.

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CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS	STREET BARRICADE	APPROVED BY: Nader Fame DATE: APRIL 2020 DWG. NO. T - 101		





























































