

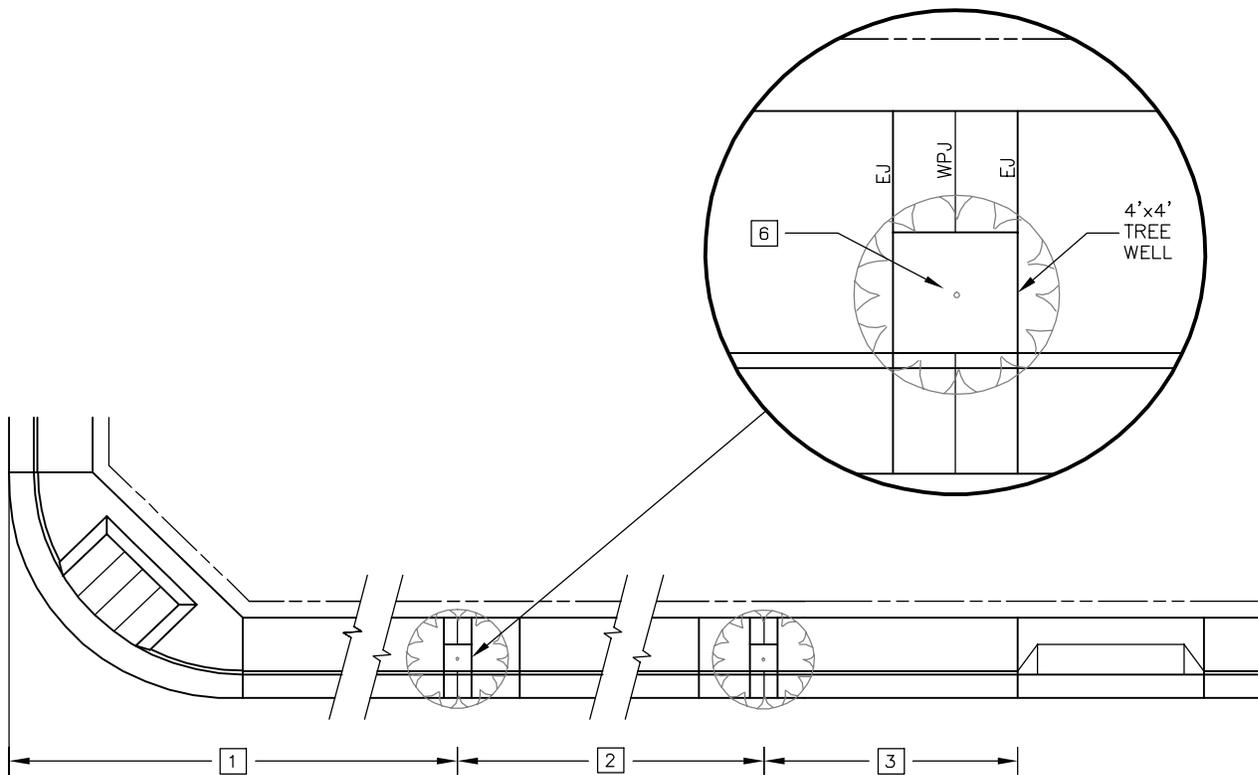
# BASIC DESIGN STANDARDS

1. THIS STANDARD IS APPLICABLE TO THE DESIGN OF CONCRETE CURB, GUTTER, AND SIDEWALK
2. MINIMUM SLOPE FOR GUTTERS = 0.0030, UNLESS OTHERWISE APPROVED BY CITY ENGINEER; SLOPE IN CUL-DE-SAC = 0.0035
3. CONSTRUCT STANDARD VERTICAL CURB AT RETURNS
4. SIDEWALK SHALL BE SLOPED  $\frac{1}{4}$ " PER FOOT (2%) TOWARDS GUTTER

# EXPANSION AND CRACK CONTROL

1. EXPANSION JOINTS ( $\frac{3}{8}$ " ) SHALL BE CONSTRUCTED AT A MAXIMUM DISTANCE OF 150' CENTER-TO-CENTER; AT LIGHT POLES, HYDRANTS, TREE WELLS, DRIVEWAYS, AND CURB RETURNS, AND AT ENDS OF ANY POUR, FOR FUTURE INSTALLATIONS
2. STEEL DOWELS,  $\frac{5}{8}$ " $\phi$  BY 24" LONG, SPACED AT 12" ON CENTER, SHALL BE INSTALLED THROUGH EVERY EXPANSION JOINT AND AT ENDS OF WORK FOR ANY FUTURE INSTALLATION. DOWELS SHALL BE GREASED AND WELL WRAPPED ON ONE SIDE
3. TRANSVERSE WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED 10' CENTER-TO-CENTER (S)
4. SCORE MARKS ON SIDEWALKS SHALL BE MIDWAY BETWEEN WEAKENED PLANE JOINTS (S/2), OR 5' CENTER TO CENTER
5. REFER TO COUNTYWIDE DETAIL CW-C3 FOR REQUIREMENTS GOVERNING THE INSTALLATION OF EXPANSION JOINTS, WEAKENED PLANE JOINTS, SCORE MARKS, ETC.

REVISION	DATE	CITY OF ESCALON	APPROVED BY:
			 CITY ENGINEER
DATE:	JAN. 2003	CONCRETE PAVING DESIGN STANDARDS	IMPROVEMENT STANDARD NO. 3-1
DRAWN BY:	DBR		
CHECKED BY:	AJA		
SCALE:	NONE		



NOTES:

- 1 MINIMUM 100' OFFSET ON ARTERIAL ROADS; 50' MINIMUM ON OTHER STREETS
- 2 TREE WELLS TO BE SPACED EVENLY THROUGHOUT THE BLOCK; 30' MINIMUM SPACING, 60' TYPICAL
- 3 10' MINIMUM OFFSET FROM DRIVEWAYS
- 4. TREE WELLS SHALL BE PLACED A MINIMUM DISTANCE OF 8' FROM SEWER LATERALS AND WATER SERVICES
- 5. TREES PLANTED IN TREE WELLS SHALL BE TYPES APPROVED BY THE CITY OF ESCALON
- 6 TREE WELLS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF ESCALON STANDARDS

REVISION	DATE
DATE: JAN. 2003	
DRAWN BY: DBR	
CHECKED BY: AJA	
SCALE: NONE	

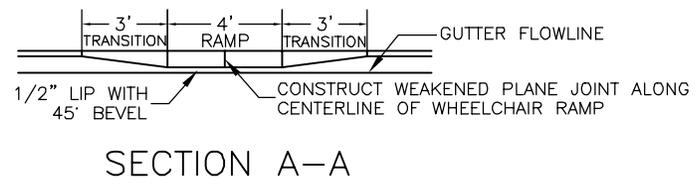
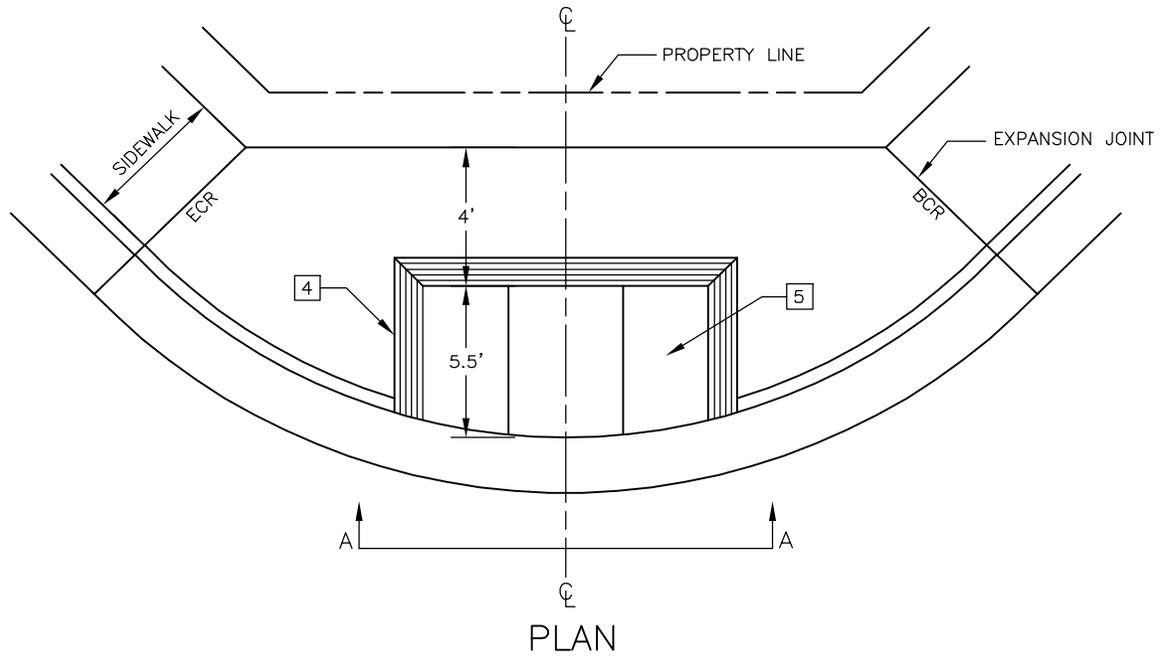
CITY OF ESCALON

TREE WELL  
LOCATIONS

APPROVED BY:

*Doug Strilham*  
CITY ENGINEER

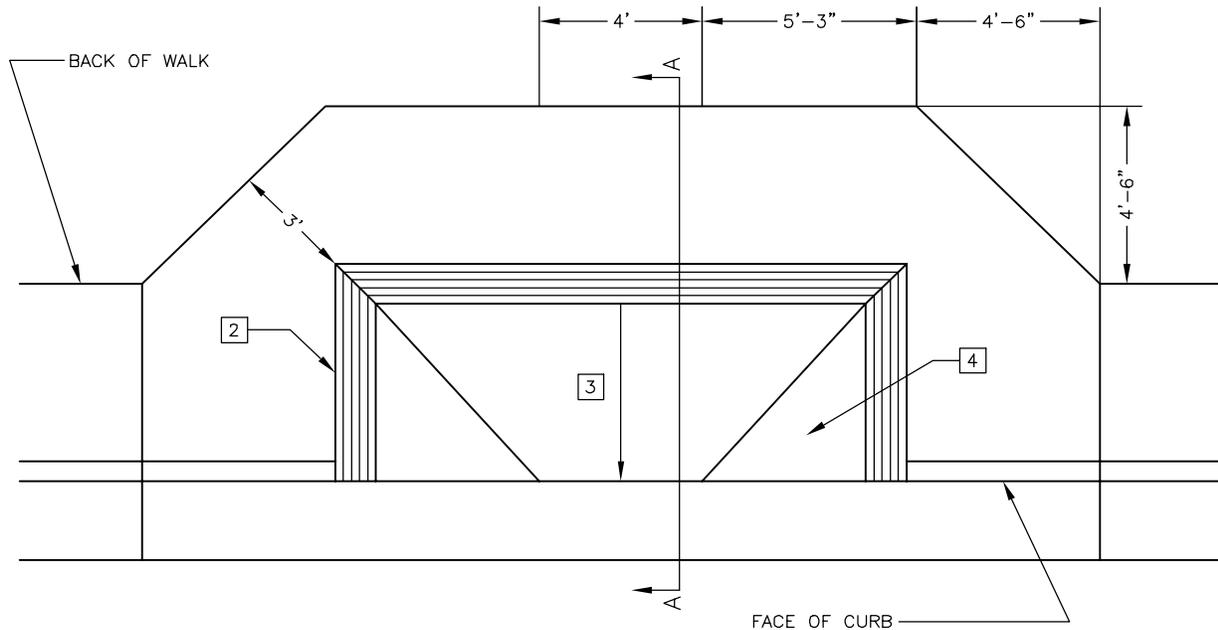
IMPROVEMENT  
STANDARD NO. C9



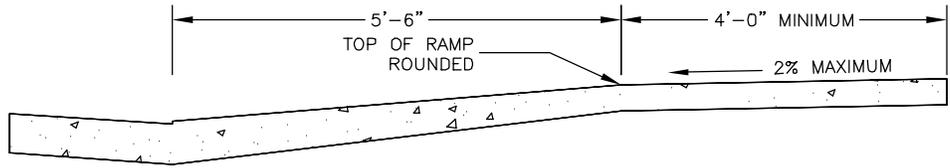
NOTES:

1. WHEELCHAIR RAMPS SHALL BE INSTALLED IN ALL NEW ROUND CORNERS
2. FOR NON-STANDARD APPLICATIONS, MAINTAIN THE FOLLOWING MAXIMUM SLOPES AS DIRECTED BY THE ENGINEER: MAXIMUM TRANSITION SIDE SLOPE: 1:8; MAXIMUM RAMP SLOPE: 1:12
3. RAMP AS SHOWN IS TYPICAL FOR 20' RADIUS ROUND CORNERS. LOCATION AND DETAIL MAY BE VARIED WITH THE APPROVAL OF THE CITY ENGINEER
- [4] THE RAMP SHALL HAVE A 12" WIDE BORDER WITH 1/4" GROOVES APPROX. 3/4" O.C. THE SURFACE OF THE RAMP SHALL HAVE A TRANSVERSELY BROOMED SURFACE TEXTURE, ROUGHER THAN THE SURROUNDING SURFACES
- [5] 12.5% MAXIMUM AT CURB

REVISION	DATE	<h1>CITY OF ESCALON</h1>	APPROVED BY:
DATE: FEB. 2003			 CITY ENGINEER
DRAWN BY: DBR		<h2>CURB RAMP AT INTERSECTIONS</h2>	IMPROVEMENT STANDARD NO. C15
CHECKED BY: AJA			
SCALE: NONE			



PLAN



SECTION A-A

NOTES:

1. RAMP SHALL BE CONSTRUCTED WITH LIGHT BROOM FINISH, TRANSVERSE TO THE AXIS OF THE RAMP, IN ORDER TO MAKE THEM AS SLIP-PROOF AS POSSIBLE
- 2 THE RAMP SHALL HAVE A 12" WIDE BORDER WITH 1/4" GROOVES APROXIMATELY 3/4" O.C.
- 3 RAMP SLOPE: 8.33% MAXIMUM
- 4 TRANSITION SLOPE: 12.5% MAXIMUM AT CURB

REVISION	DATE
DATE: FEB. 2003	
DRAWN BY: DBR	
CHECKED BY: AJA	
SCALE: NONE	

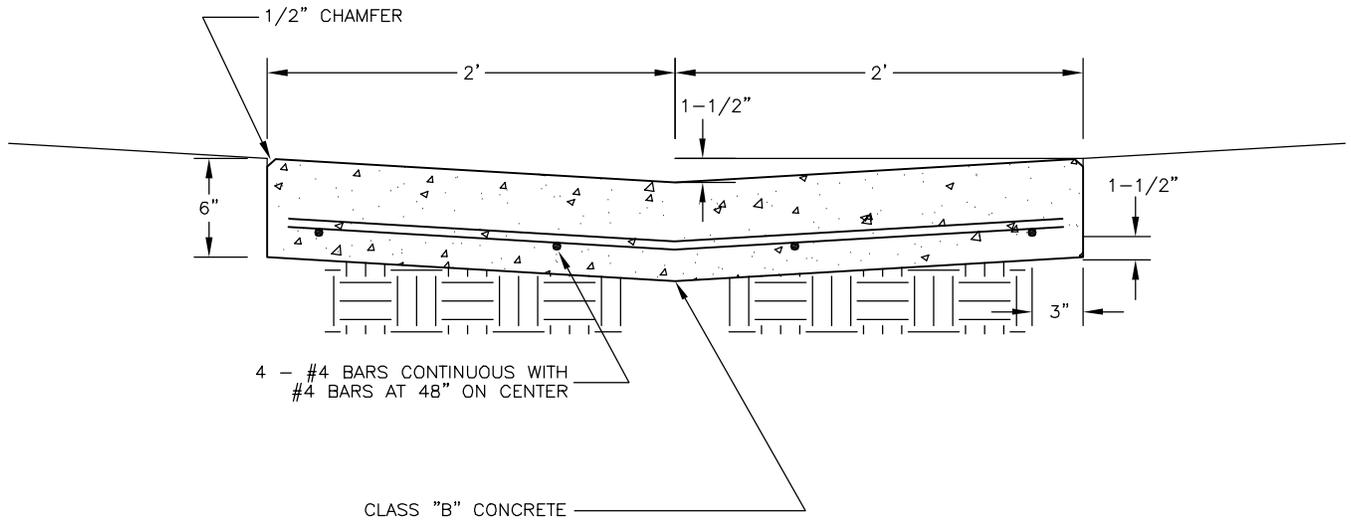
CITY OF ESCALON

CURB RAMP  
AT MID-BLOCK

APPROVED BY:

*Doug Strilham*  
CITY ENGINEER

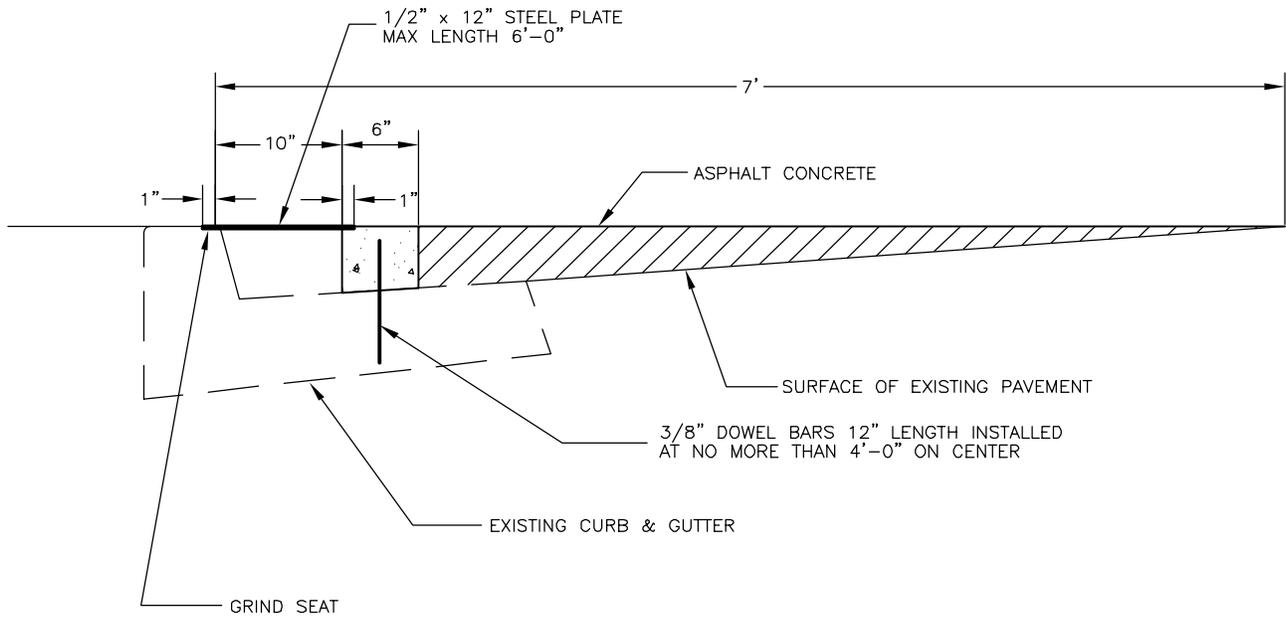
IMPROVEMENT STANDARD NO. C16



NOTES:

1. CONCRETE VALLEY GUTTER TO BE USED ONLY WHERE APPROVED BY THE CITY ENGINEER
2. THE MINIMUM SLOPE OF VALLEY GUTTER RUNS SHALL BE 0.0035 FOOT DROP PER LINEAL FOOT RUN

REVISION	DATE	CITY OF ESCALON	APPROVED BY:
DATE: FEB. 2003			 CITY ENGINEER
DRAWN BY: DBR		CONCRETE VALLEY GUTTER	IMPROVEMENT STANDARD NO. C23
CHECKED BY: AJA			
SCALE: NONE			



NOTE:

1. BRIDGE TYPE DRIVEWAY TO BE USED ONLY WHERE APPROVED BY THE CITY ENGINEER

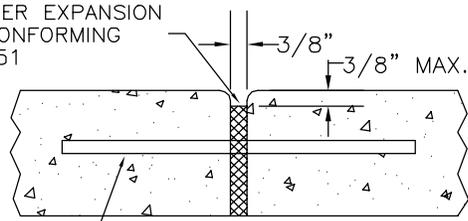
REVISION	DATE	CITY OF ESCALON	APPROVED BY:
			 CITY ENGINEER
DATE:	FEB. 2003	BRIDGE TYPE DRIVEWAY	IMPROVEMENT STANDARD NO. C24
DRAWN BY:	DBR		
CHECKED BY:	AJA		
SCALE:	NONE		

## CONCRETE CURB, GUTTER AND SIDEWALK CONSTRUCTION NOTES

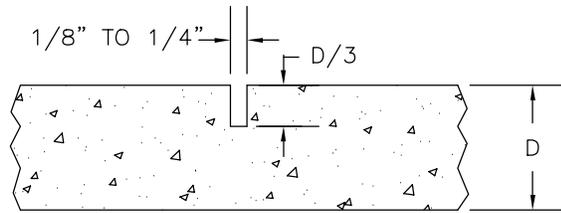
- 1 CURB, GUTTER AND SIDEWALK CONSTRUCTION SHALL CONFORM TO SECTION 73, STANDARD SPECIFICATIONS, CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), EXCEPT AS MODIFIED HEREIN.
- 2 REFERENCE IS MADE TO THE LOCAL AGENCIES STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATING TO THE CONSTRUCTION OF CONCRETE CURB, GUTTER, & SIDEWALK.
- 3 SUBGRADE FOR CURB, GUTTER, SIDEWALK AND DRIVEWAYS SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% TO A DEPTH OF 6". WHERE THE SUBGRADE "R" VALUE IS LESS THAN 50, PLACE 4" MINIMUM OF AGGREGATE SUBBASE CLASS IV UNDER THE CONCRETE SECTIONS AND COMPACT TO A MINIMUM OF 90%.
- 4 ALL RADII FOR ROUNDING EDGES SHALL BE 3/4" UNLESS NOTED.
- 5 CONCRETE SHALL BE CLASS B, PER CALTRANS SECTION 90.
- 6 EXPANSION JOINTS AND WEAKENED PLANE JOINTS SHALL BE INSTALLED AS INDICATED ON THE PLANS OR STANDARD DETAILS.
- 7 CURB, GUTTER AND SIDEWALK SHALL HAVE A LIGHT BROOM FINISH; CURB AND GUTTER PARALLEL TO THE FLOW LINE, SIDEWALKS PERPENDICULAR THE FLOWLINE.
- 8 DEPRESS A 2" HIGH LETTER "W" OR "S" 1/4" DEEP INTO THE TOP OF THE CURB TO IDENTIFY SERVICE LOCATIONS.
- 9 DURING CONSTRUCTION OF GUTTERS, WATER SHALL BE USED TO INSURE PROPER DRAINAGE ALONG THE FLOWLINE.

REVISION	DATE	COUNTY WIDE IMPROVEMENT STANDARDS COUNTY OF SAN JOAQUIN	APPROVED BY
		CONCRETE CURB, GUTTER AND SIDEWALK CONSTRUCTION STANDARDS	SAN JOAQUIN COUNTY      DATE DIRECTOR OF PUBLIC WORKS
			IMPROVEMENT STANDARD NO.      CW-C1

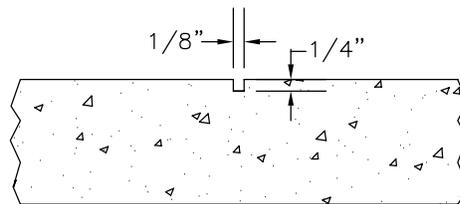
PREFORMED FIBER EXPANSION  
JOINT FILLER CONFORMING  
TO ASTM D-1751



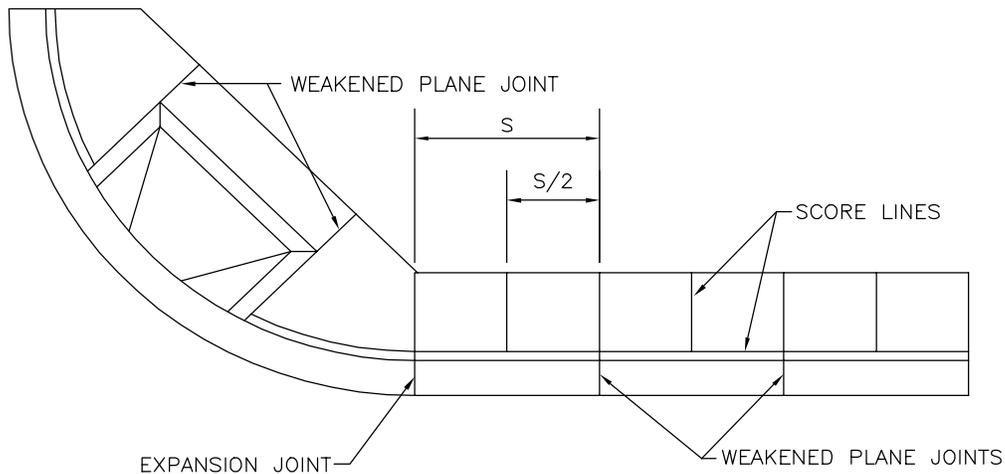
1 EXPANSION JOINT



WEAKENED PLANE JOINT



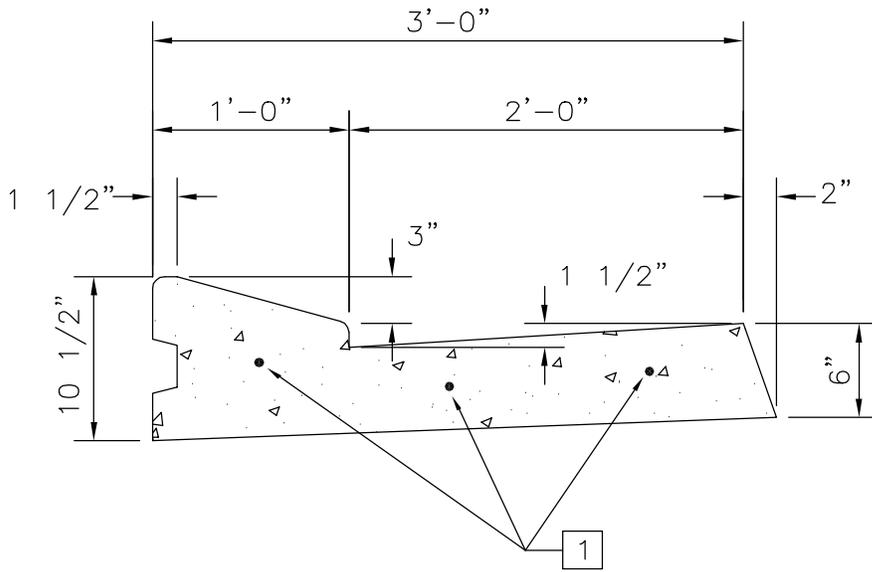
SCORE LINE



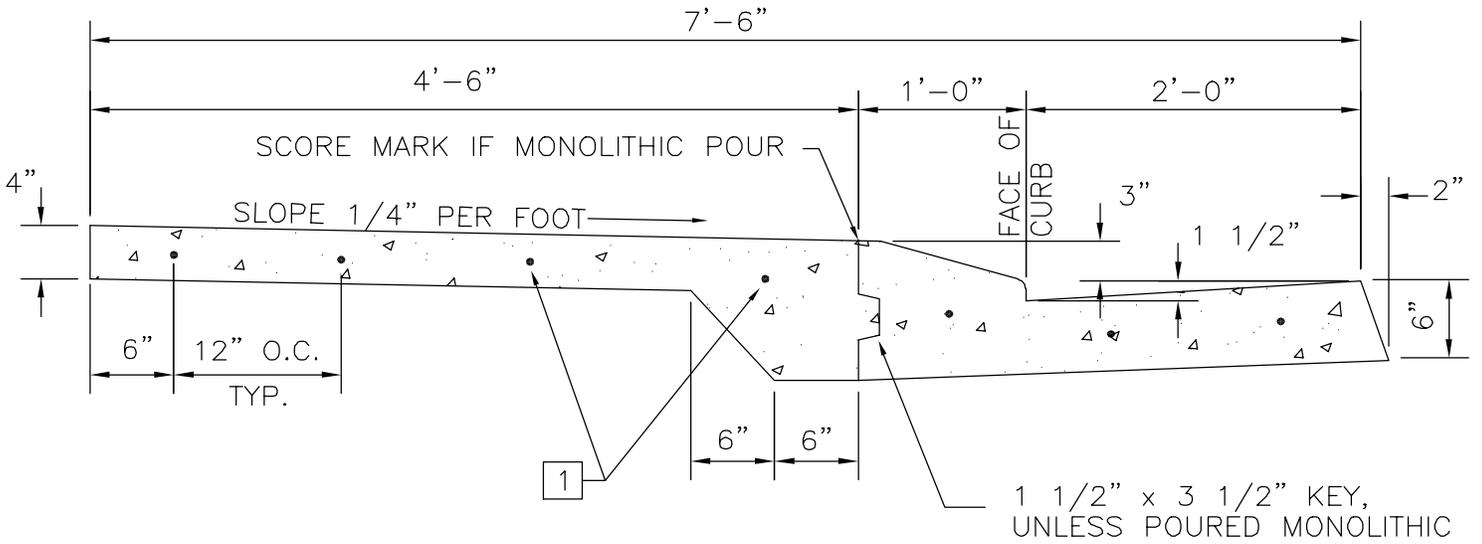
1  $\frac{5}{16}$ " x 24" LONG STEEL DOWELS, GREASED AND WRAPPED ONE SIDE THROUGH ALL EXPANSION JOINTS

S = SPACING AS REQUIRED BY EACH GOVERNING AGENCY

REVISION	DATE	COUNTY WIDE IMPROVEMENT STANDARDS COUNTY OF SAN JOAQUIN	APPROVED BY
		EXPANSION JOINTS WEAKENED PLANE JOINTS AND SCORE LINES	SAN JOAQUIN COUNTY      DATE DIRECTOR OF PUBLIC WORKS
			IMPROVEMENT STANDARD NO.      CW-C3



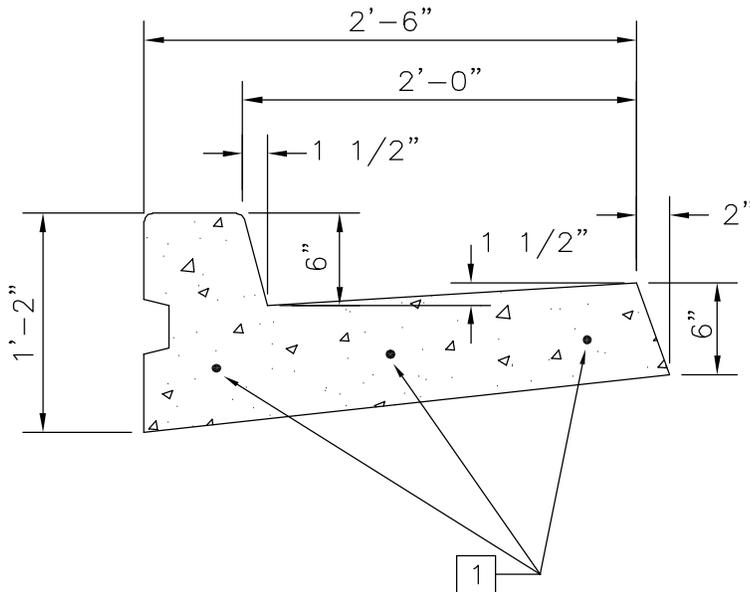
ROLL TYPE  
CURB & GUTTER



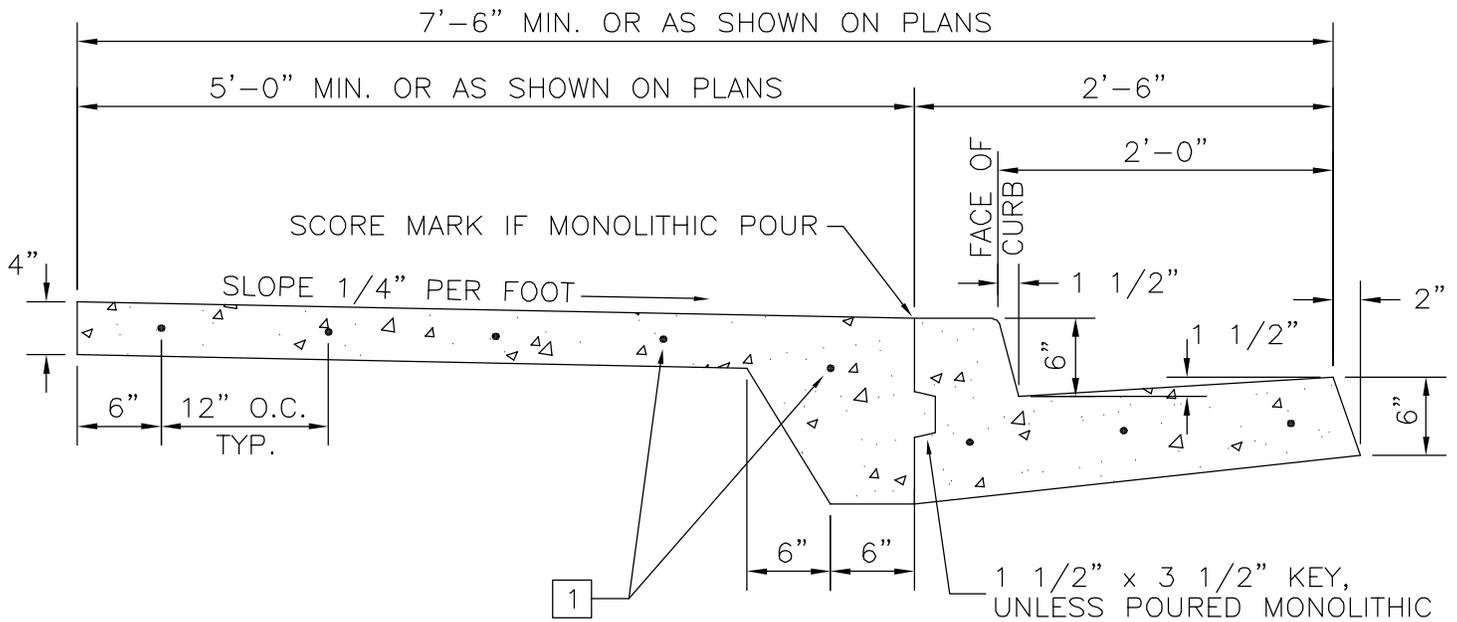
ROLL TYPE CURB,  
GUTTER & SIDEWALK

1 5/8" x 24" LONG STEEL DOWELS, GREASED AND WRAPPED  
ONE SIDE THROUGH ALL EXPANSION AND COLD JOINTS.

REVISION	DATE	COUNTY WIDE IMPROVEMENT STANDARDS COUNTY OF SAN JOAQUIN	APPROVED BY
			SAN JOAQUIN COUNTY DATE DIRECTOR OF PUBLIC WORKS
		ROLL CURB, GUTTER & SIDEWALK	IMPROVEMENT CW-C6 STANDARD NO.



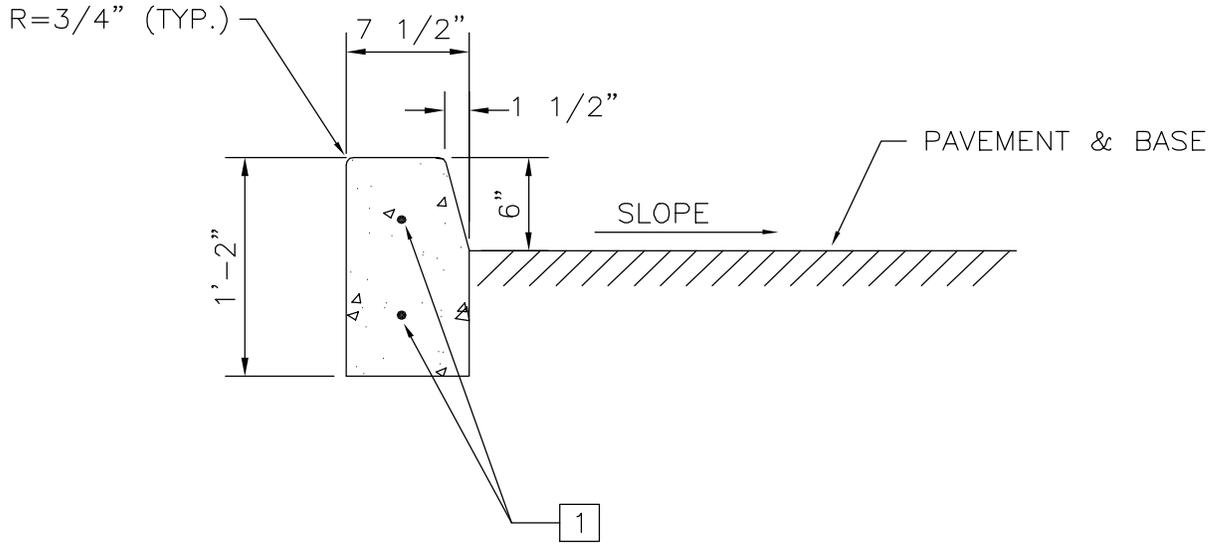
VERTICAL  
CURB & GUTTER



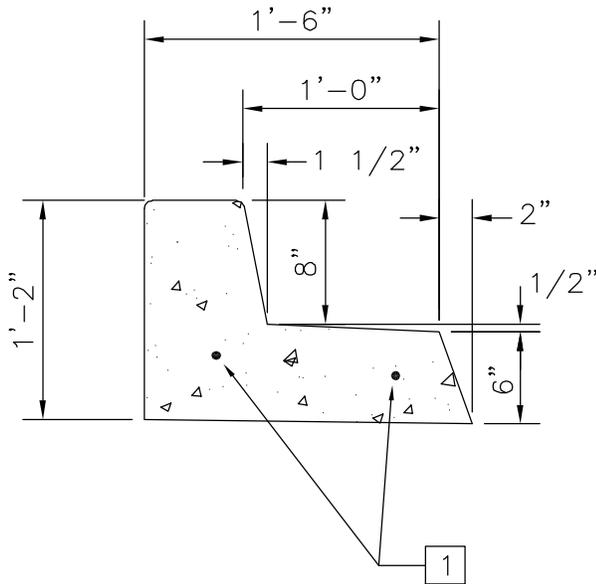
VERTICAL CURB,  
GUTTER & SIDEWALK

1 5/8" x 24" LONG STEEL DOWELS, GREASED AND WRAPPED  
ONE SIDE THROUGH ALL EXPANSION AND COLD JOINTS.

REVISION	DATE	COUNTY WIDE IMPROVEMENT STANDARDS COUNTY OF SAN JOAQUIN	APPROVED BY
			SAN JOAQUIN COUNTY DATE DIRECTOR OF PUBLIC WORKS
		VERTICAL CURB, GUTTER & SIDEWALK	IMPROVEMENT STANDARD NO. CW-C7



TYPE "B" VERTICAL CURB



TYPE "F" CURB & APRON

1 5/8" x 24" LONG STEEL DOWELS, GREASED AND WRAPPED ONE SIDE THROUGH ALL EXPANSION AND COLD JOINTS.

REVISION	DATE	COUNTY WIDE IMPROVEMENT STANDARDS COUNTY OF SAN JOAQUIN	APPROVED BY
		<b>VERTICAL CURB CURB &amp; APRON</b>	SAN JOAQUIN COUNTY      DATE DIRECTOR OF PUBLIC WORKS
			IMPROVEMENT STANDARD NO.      CW-C8