

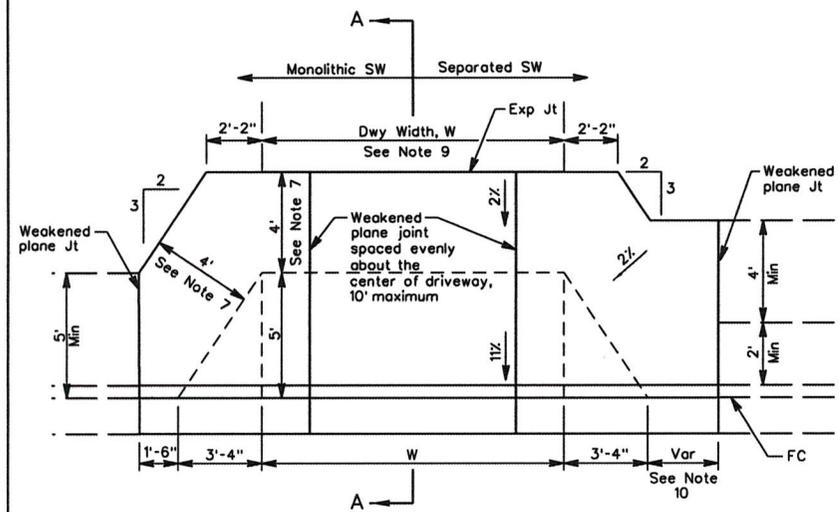
Julia R. Bueren
 PUBLIC WORKS DIRECTOR
 March 11, 2014
 PLANS APPROVAL DATE
 The County of Contra Costa or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 JULIA R. BUEREN
 No. 37937
 CIVIL
 STATE OF CALIFORNIA

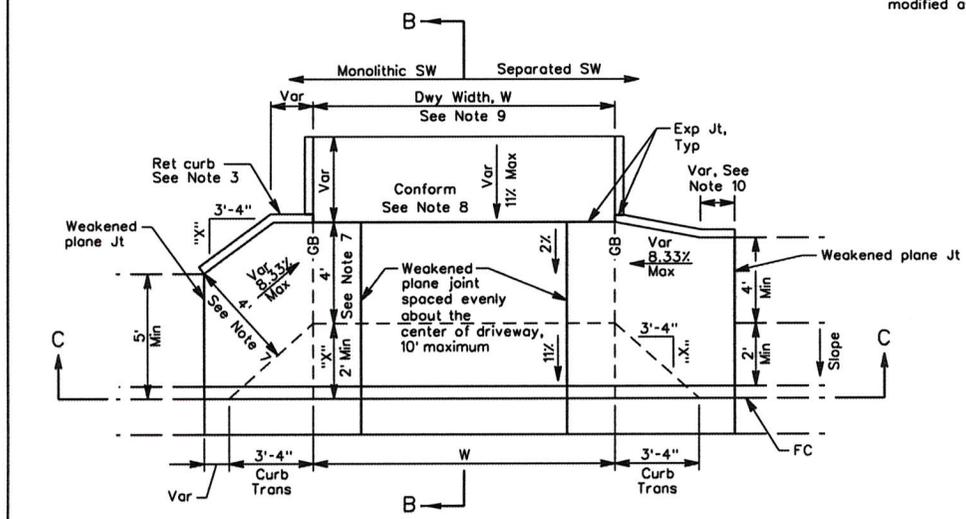
NOTES:

1. New depressed curb and driveway ramps shall be constructed monolithically. Minor Concrete, not less than 505 lb cementitious material per cubic yard, 1" maximum aggregate shall be used for all construction detailed on this plan. Minor concrete shall comply with Section 90 of the California Department of Transportation Standard Specifications.
2. When existing road right of way restricts use of standard driveway ramp, the modified driveway may be used when approved by the Public Works Department. "X" shall be as large as possible, and as specified on the plans.
3. Retaining curbs and driveway conforms as required by the Public Works Department. See Standard Plan CA54 for retaining curb details.
4. For depressed driveways (Section B-B) the sidewalk shall be a minimum of 3 3/4" ("X"-2') above the gutter flow line grade. Depth of gutter flows shall be calculated and compared to proposed depressed sidewalk elevations during design to make sure gutter flows are contained.
5. See Standard Plan CA70 for weakened plane joint, expansion joint, and scoremark details. See Standard Plan CA74 for doweling details when conforming to existing curb and sidewalk.
6. If pavement cross slope exceeds 4%, the modified driveway shall be used with the slope of the driveway ramp reduced such that the difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5' from gutter flow line shall not exceed 15%. Reduce driveway ramp slope, not the gutter slope. Other dimensions shall be modified as approved by the Public Works Department.

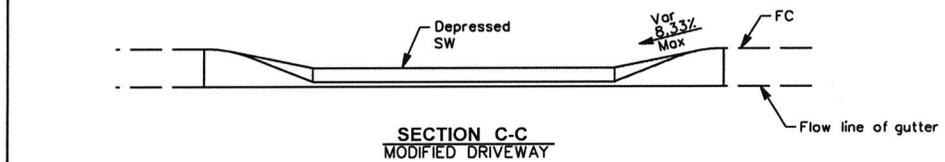
7. Minimum width of clear passage shall be 4' with a 2% cross slope. Where right of way restrictions, natural barriers or other restrictions create an unreasonable hardship, the clear width may be reduced to 3' with a 2% cross slope, with approval of the Public Works Department.
8. Acquisition of construction easement may be necessary where right of way is limited to construct driveway conform.
9. Driveway width, W, as specified on the plans, and in compliance with the following:
 Residential: 10' Min to 26' Max
 Commercial: 20' Min to 35' Max
10. Extend driveway conform beyond curb transition to conform to sidewalk to maintain 8.33% maximum ramp slope.
11. #4 reinforcing steel bars at 18" c-c bothways, for commercial driveways.



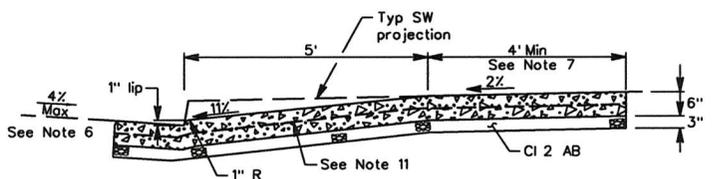
STANDARD DRIVEWAY RAMP



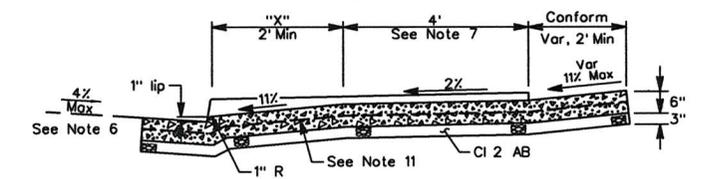
MODIFIED DRIVEWAY RAMP
See Note 2



SECTION C-C
MODIFIED DRIVEWAY



SECTION A-A
STANDARD DRIVEWAY



SECTION B-B
MODIFIED DRIVEWAY
See Note 4

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA
 STANDARD PLAN

DRIVEWAY RAMP DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

SCALE: NO SCALE
 DRAWN BY: H. HUSSEY
 CHECKED BY: M. HOLLINGSWORTH

DATE: 3/14
 PLAN NO. CA72

STD. PLAN CA72