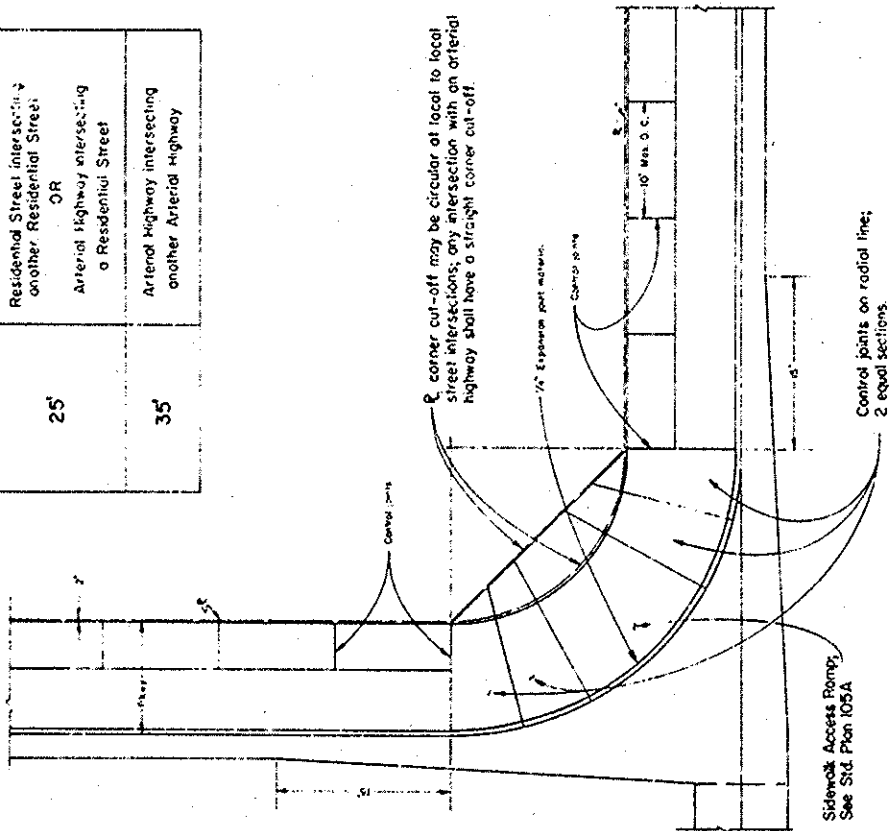
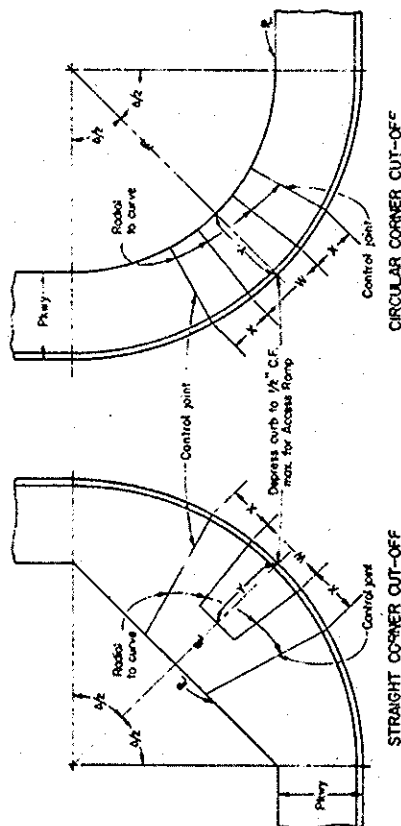


CURB RET. RAD.	APPLICATION
25'	Residential Street intersecting another Residential Street or Arterial Highway intersecting a Residential Street
35'	Arterial Highway intersecting another Arterial Highway

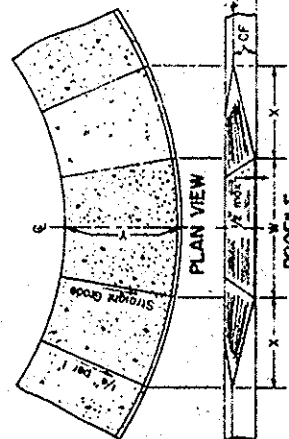


SIDEWALK RETURNS
DETAIL A
NO SCALE

STD. PLAN 105



TYPICAL CURB RETURNS
DETAIL B
NO SCALE

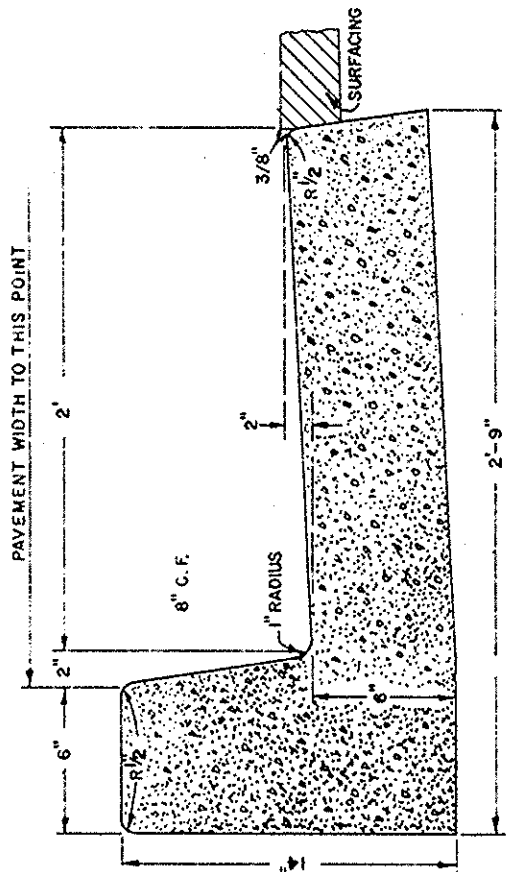


ACCESS RAMP DETAIL
DETAIL C
NO SCALE

- NOTES:**
1. Access ramp shall not exceed 12.5% of $\frac{1}{4}$ inch.
 2. All existing concrete to be removed shall be replaced with 4" thick Class "B" portland cement concrete.
 3. Access ramp shall be constructed with 4" thick Class "B" portland cement concrete.
 4. Ramp shall be constructed with 4" thick Class "B" portland cement concrete.
 5. See Std. Plan 105 for Sidewalk Return details.

SIDEWALK ACCESS RAMP
DETAIL D
NO SCALE

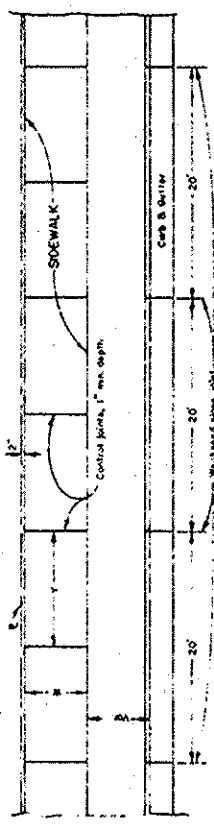
STD. PLAN 105A



NOTE:
CONC. PER LIN. FT. = 0.645 CU. YDS.
1 CU. YD. = 13.5 LIN. FT.

CONCRETE CURB TYPE "A-2"
DETAIL C
NO SCALE

STD. PLAN 202

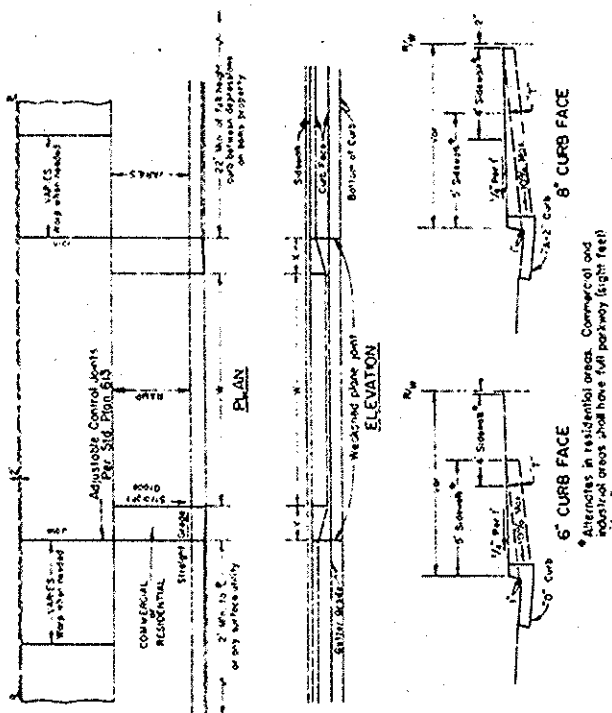


APPLICATION	W	Y
Arterial road*	4'	10'
Residential sidewalk adjacent to curb**	4'	10'
Residential sidewalk adjacent to curb**	4.5'	20'
Commercial and industrial	4.5'	20'

- NOTES:**
1. *W may be reduced to 3' with adequate provision for maintenance of remaining roadway.
 2. **Recommended when grade is less than 5% and design is consistent with adjacent residential development.
 3. **Recommended when grade is greater than 5%. Utility vaults, hydrants, manholes, and other obstructions must be placed back of sidewalk.
 4. See Std. Plan 63 for vertical distinction location.
 5. See Std. Plan 63 for construction notes.

SIDEWALK DETAILS
DETAIL D
NO SCALE

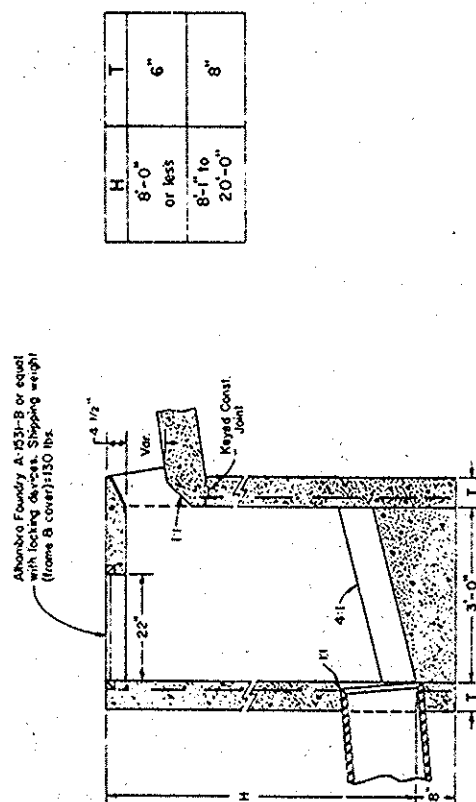
STD. PLAN 205



- VALUES OF "W"**
- | RESIDENTIAL* | MIN | MAX |
|---------------------------|-----|-----|
| Two Car Garage | 12' | 20' |
| Three Car Garage | 12' | 28' |
| Commercial and Industrial | 14' | 18' |
| One-way | 14' | 18' |
| Two-way | 28' | 35' |
- VALUES OF "Y"**
- | SIDEWALK | MIN | MAX |
|------------------|-----|-----|
| Adjacent to curb | 2' | 3' |
| Adjacent to curb | 2' | 3' |
| Two-way | 2' | 3' |
- NOTES:**
1. Sidewalk and ramp thickness "T" shall be 6" dist. 8" P.C.C.
 2. A.C. section may be constructed between curb and sidewalk.
 3. The top of the curb shall be maintained between 2" and 3" above the sidewalk.
 4. No less than 22' of full height curb shall be maintained between driveaways on same property.
 5. The total "W" in case of multiple driveaways on a single underpass shall be maintained between driveaways and shall be greater than 100' or 145' or 60' where frontage is greater than 100'.
 6. Commercial, industrial, and residential driveaway serving a driveway shall be maintained between driveaways and shall be greater than 100' or 145' or 60' where frontage is greater than 100'.
 7. Design shall be in accordance with Std. Plan 205 where on-site design is required.
 8. Frontage length minus driveway width "W" shall not be less than 20' feet.

DEPRESSED CURB DRIVEWAY APPROACH
DETAIL E
NO SCALE

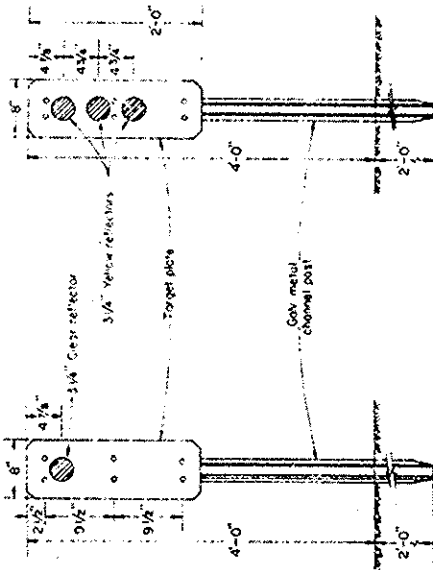
STD. PLAN 208



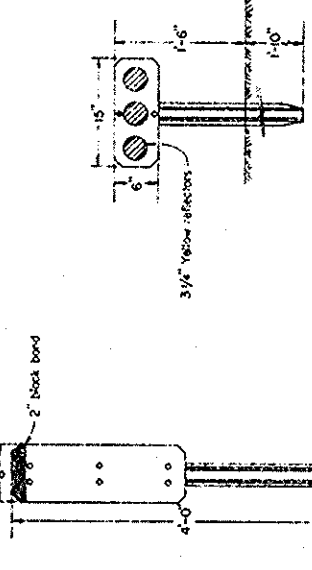
- NOTES:**
1. Curb shall conform to curb and notes.
 2. See Std. Plans 305 and 306 for details and notes.

INLET TYPE I (MODIFIED)
DETAIL F
NO SCALE

STD. PLAN 305



CLEARANCE MARKERS
TYPE L12 AND L13
Bottom reflector omitted on Type L12



HORIZONTAL REFLECTOR UNIT
TYPE K

NOTE:
See Std. Plans 402A and 402B for Guide Marker Placement and Marker Notes.

MARKERS
DETAIL G
NO SCALE

STD. PLAN 402

NOTE:
SEE SHEET 2 FOR CONSTRUCTION NOTES.

ORANGE COUNTY ROAD DEPARTMENT
BALL ROAD WIDENING
AT SANTA ANA RIVER
STANDARD DETAILS

AS NOTED
SHEET 2 OF 31
12241