

## SECTION 5

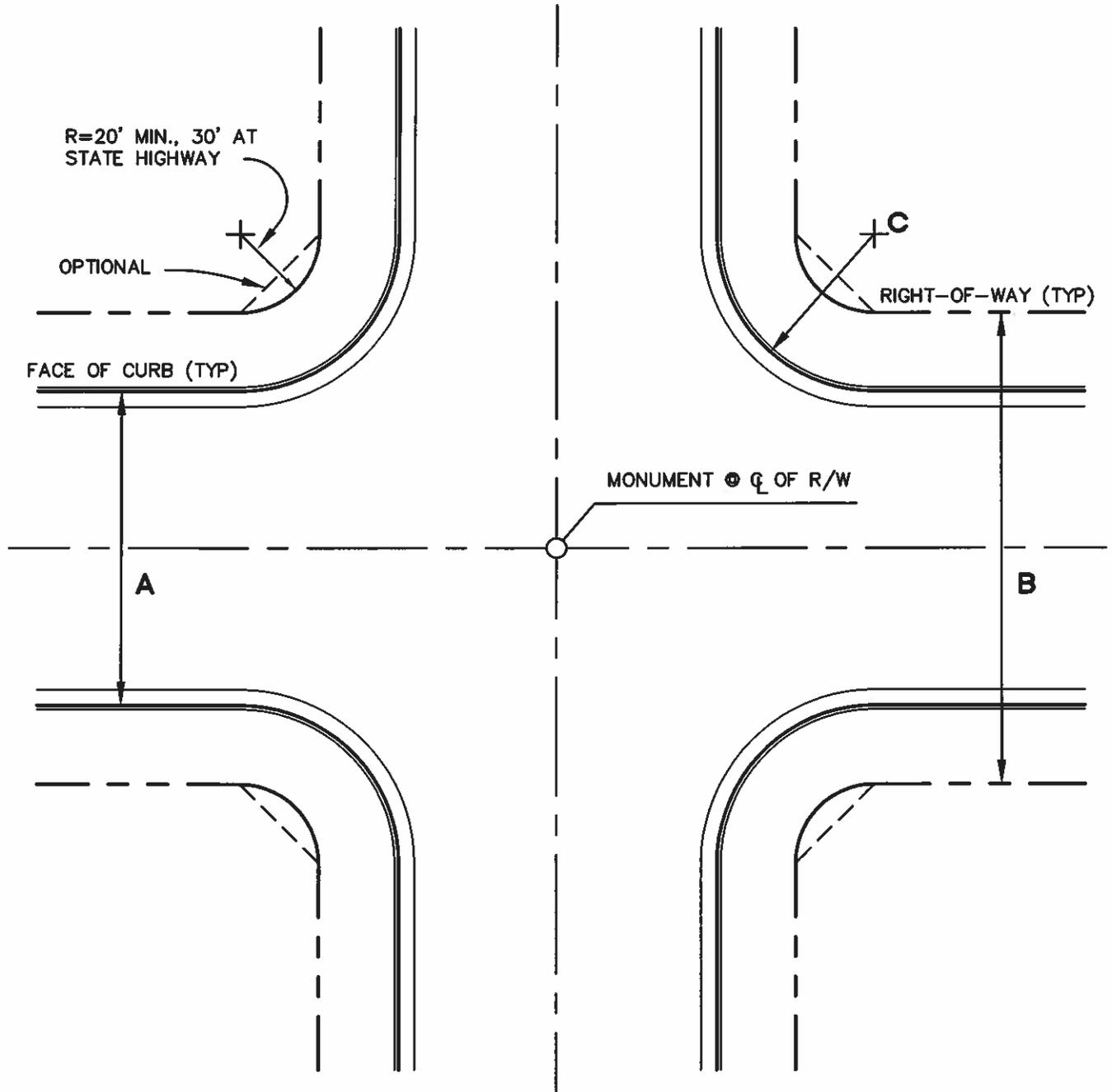
### STREET STANDARDS

- R-1.1 Street Layout
- R-1.2 Street Section
- R-1.3 Cul-De-Sac
  
- R-2.1 Curb, Gutter and Sidewalk
- R-2.2 Cross Gutter
  
- R-3.1 Pedestrian Ramp Type A
- R-3.2 Pedestrian Ramp Type B and C
  
- R-4.1 Commercial Driveway and Alley Approach
- R-4.2 Driveway
  
- R-5.1 City Monument
- R-5.2 Street Name Sign and Sidewalk Warp
- R-5.3 Standard Barricade
- R-5.4 Pavement Markings: Center Lines, Two-Way Left Turn Lanes, and Median Islands
  
- R-6.1 Street Light
- R-6.2 Street Light Pole Foundation

STREET TYPE	A CURB TO CURB WIDTH	B RIGHT-OF-WAY WIDTH	C CURB RETURN RADIUS
ARTERIAL	40'	64'	30', 35' AT STATE HWY
COLLECTOR	36'	60'	25'
LOCAL	32'	44'	20'
CUL DE SAC	36'	60'	25'

NOTES:

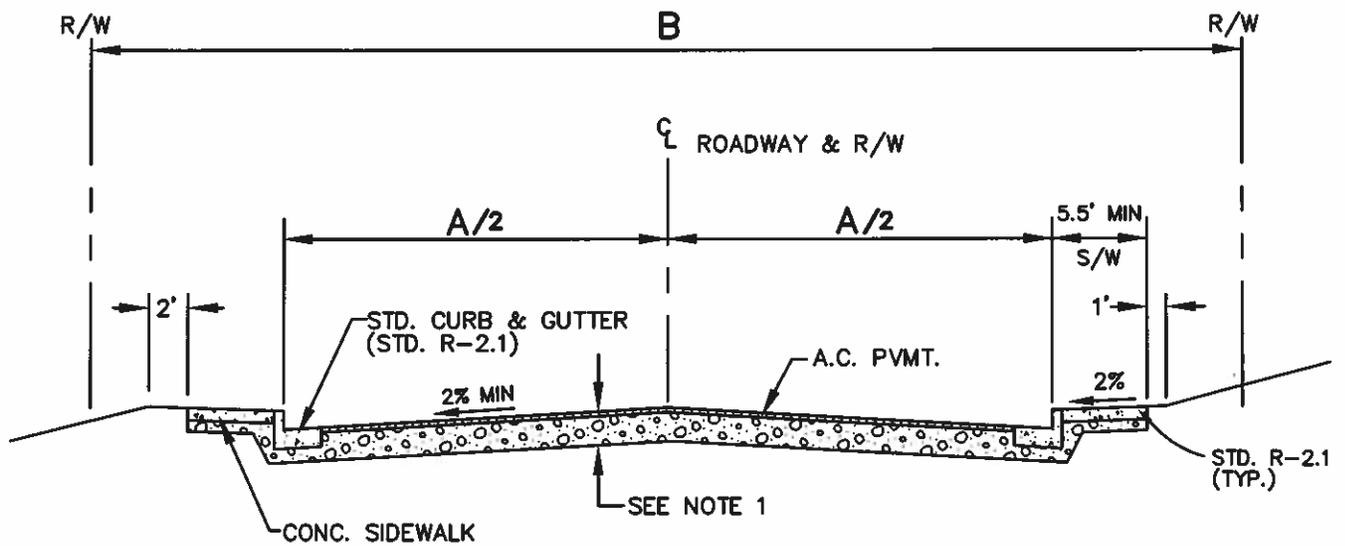
1. ADDITIONAL SIDEWALK EASEMENTS REQUIRED.
2. ADDITIONAL PUBLIC UTILITY EASEMENTS MAY BE REQUIRED ON BOTH SIDES OF RIGHT-OF-WAY.



STREET LAYOUT

STD. NO.  
**R-11**

SCALE: NONE | DRAWN: LMM | CHK: PHK | APPVD: PHK | DATE: JULY 1998



**NOTES:**

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED BY SOILS REPORT AND SHOWN ON PLANS, SHOW "R" VALUE & T.I.
2. CUT SLOPES SHALL BE A MAXIMUM OF 2:1, UNLESS SOILS REPORT DETERMINES OTHERWISE.
3. FILL SLOPES SHALL BE A MAXIMUM OF 2:1
4. CONSTRUCTION OUTSIDE R/W LINE SHALL REQUIRE SLOPE EASEMENTS.
5. A 5'-10' P.U.E. AND SIDEWALK EASEMENTS REQUIRED ADJACENT TO THE RIGHTS-OF-WAY.



**STREET SECTION**

**STD. NO.  
R-12**

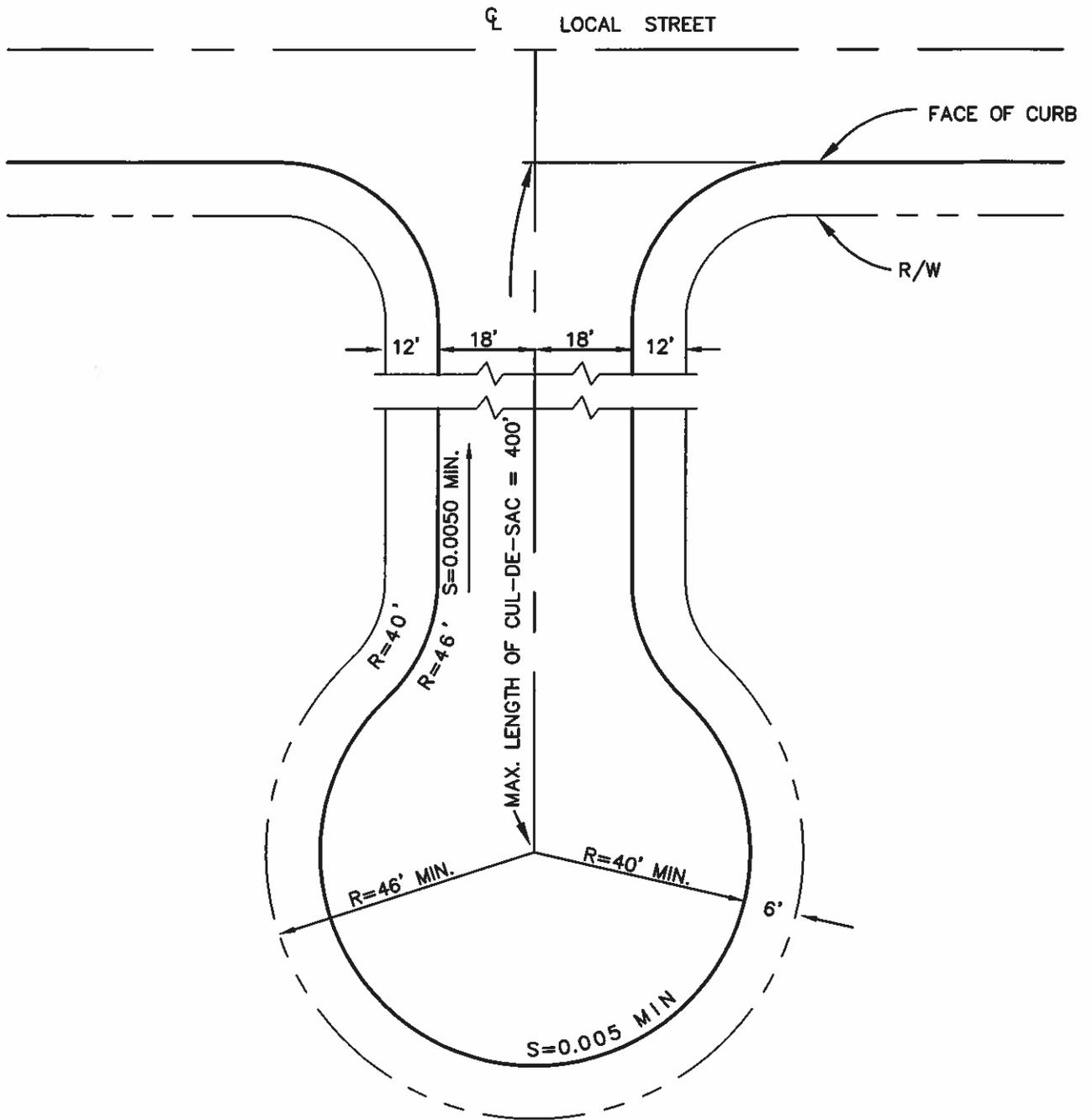
SCALE: NONE

DRAWN: LMM

CHK: PHK

APPVD: PHK

DATE: JULY 1998



CROSS SLOPE IN BULB AREA  
SHALL BE MIN 2%

NOTES:

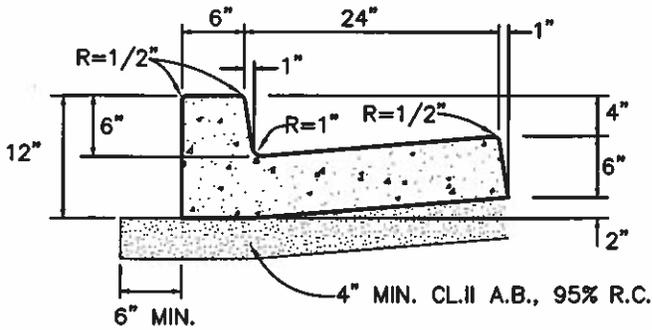
1. ADDITIONAL SIDEWALK EASEMENT REQUIRED IN BULB.
2. ADDITIONAL PUBLIC UTILITY EASEMENTS MAY BE REQUIRED ON BOTH SIDES OF RIGHT-OF-WAY.



**CUL-DE-SAC**

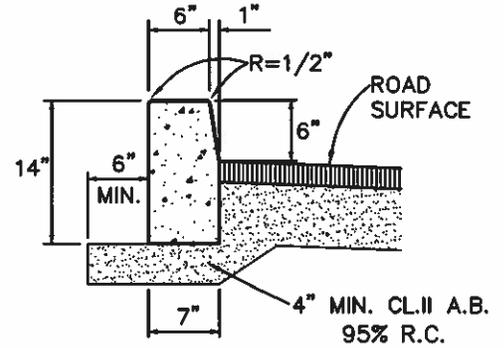
STD. NO.  
**R-1.3**

SCALE: NONE | DRAWN: LMM | CHK: PHK | APPVD: PHK | DATE: JULY 1998



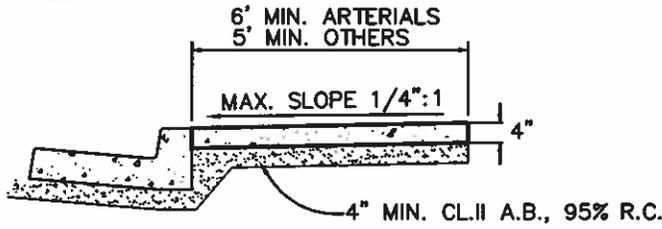
**STANDARD  
CURB AND GUTTER**

NOT TO SCALE



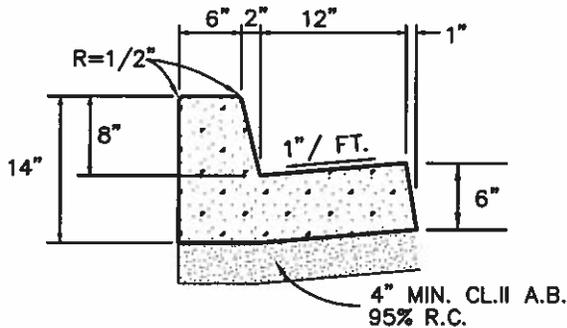
**STANDARD  
VERTICAL CURB**

NOT TO SCALE



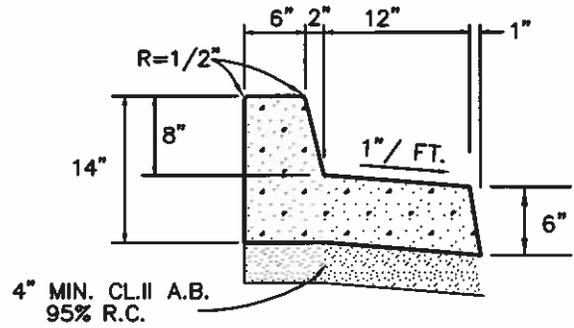
**STANDARD  
SIDEWALK**

NOT TO SCALE



**TYPE B MEDIAN CURB**

NOT TO SCALE



**TYPE A MEDIAN CURB**

NOT TO SCALE

**NOTES:**

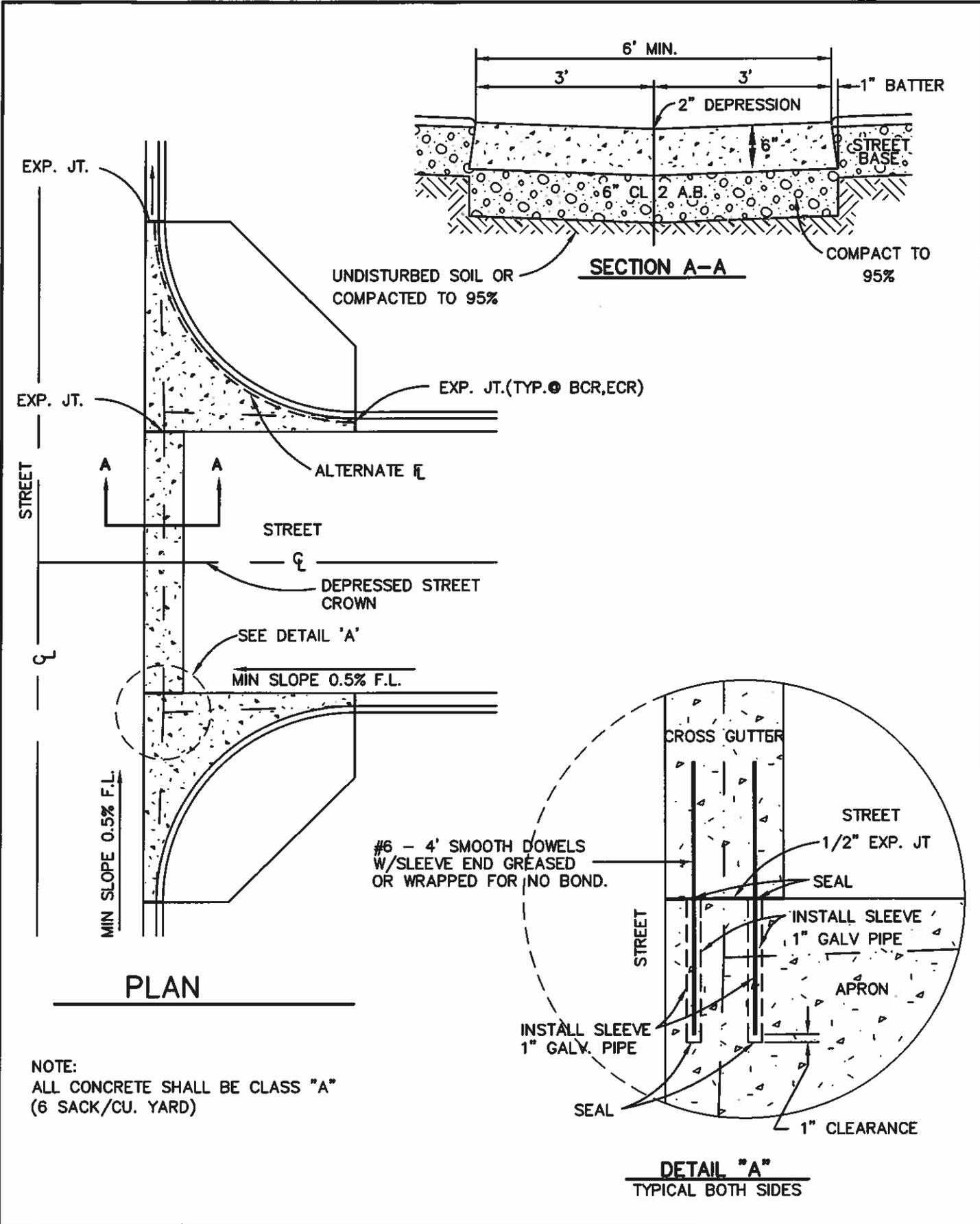
1. CONCRETE SHALL BE CLASS A AND SHALL CONTAIN NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
2. EXPANSION JOINTS, 1/4 INCH WIDE, SHALL BE INSTALLED AT EACH SIDE OF STRUCTURES, AT ENDS OF CURB RETURNS AND AT THE TOP OF DRIVEWAY TAPERS.
3. EXPANSION JOINTS SHALL BE INSTALLED AT 60 FOOT INTERVALS, WITH WEAKENED PLANE JOINTS EVERY 15 FEET.
4. EXPANSION JOINTS SHALL BE PLACED IN CURB, GUTTER AND SIDEWALK AT ALL CURB RETURNS.
5. SIDEWALKS SHALL BE SCORED INTO 5 FOOT SQUARES UNLESS OTHERWISE SPECIFIED BY ENGINEER.
6. IF EXTRUSION MACHINE IS USED, EXPANSION JOINTS SHALL BE DEEP SCORED 1/3 THE THICKNESS.
7. WEIGHT OF CURB AND/OR SIDEWALK AND CLASS 2 AGGREGATE SHALL EXCEED THE EXPANSION PRESSURE OF THE BASEMENT SOIL 'R' VALUE.



**CURB, GUTTER AND SIDEWALK**

**STD. NO.  
R-21**

SCALE: NONE | DRAWN: MGA | CHK: SAL | APPVD: PHK | DATE: JULY 1998



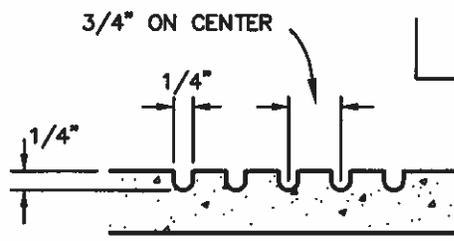
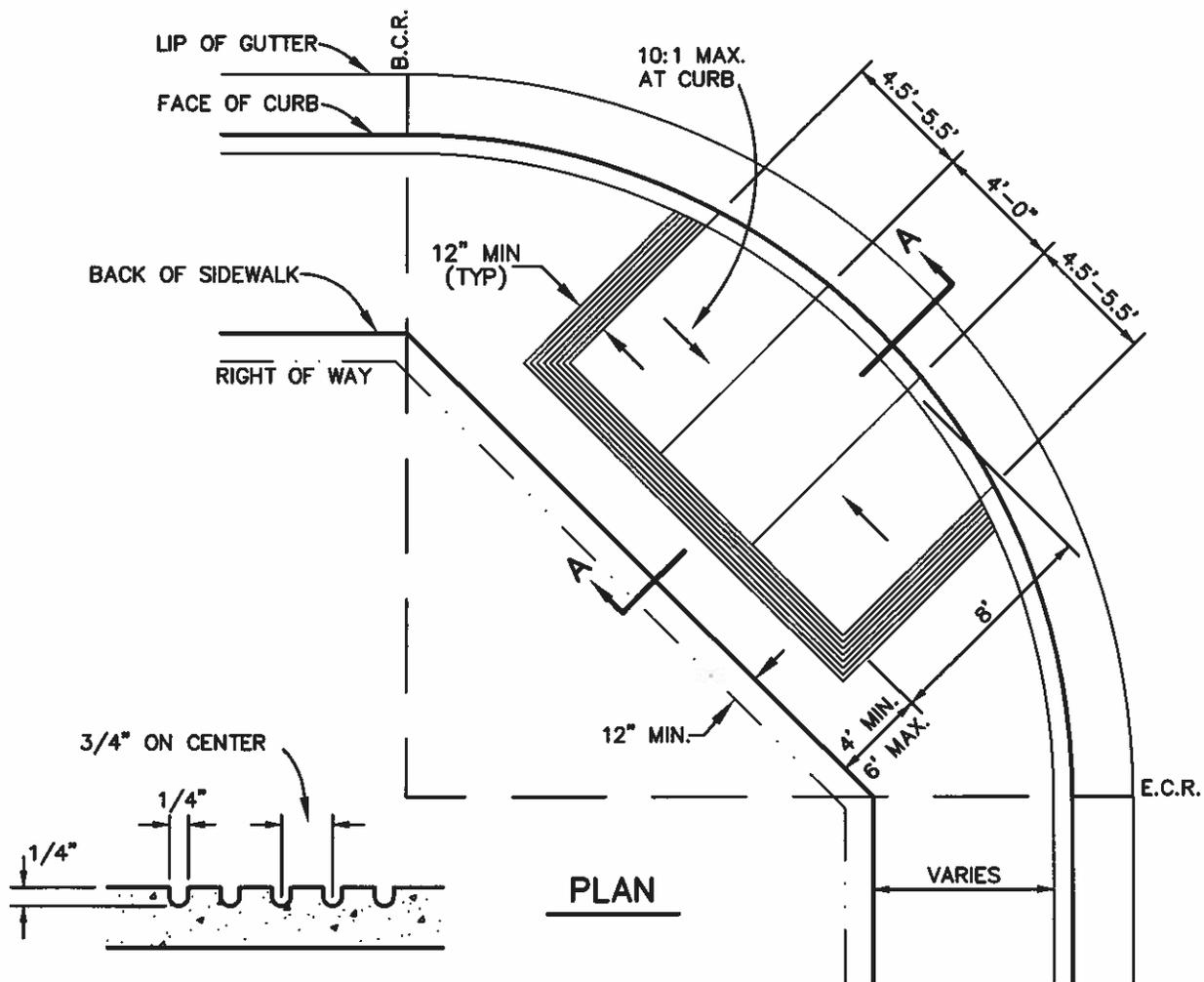
NOTE:  
ALL CONCRETE SHALL BE CLASS "A"  
(6 SACK/CU. YARD)



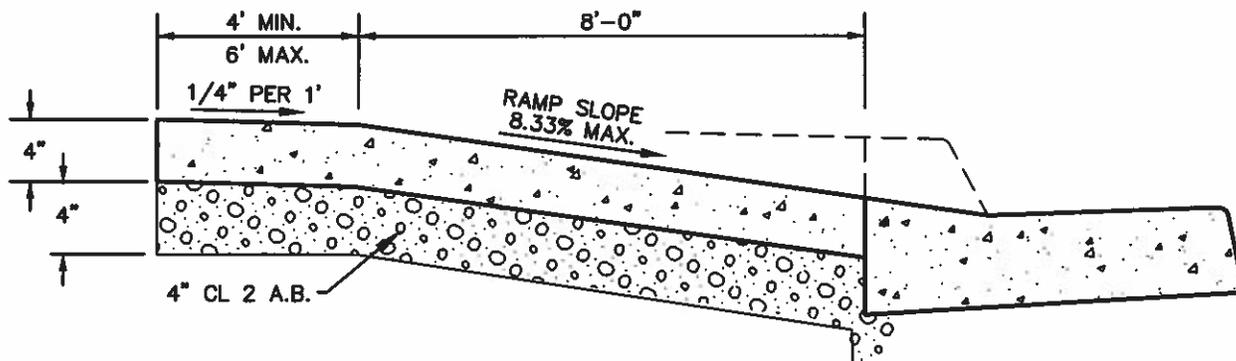
**CROSS GUTTER**

STD. NO.  
**R-2.2**

SCALE: NONE | DRAWN: MGA | CHK: | APPVD: PHK | DATE: JULY 1998



**GROOVING DETAIL**



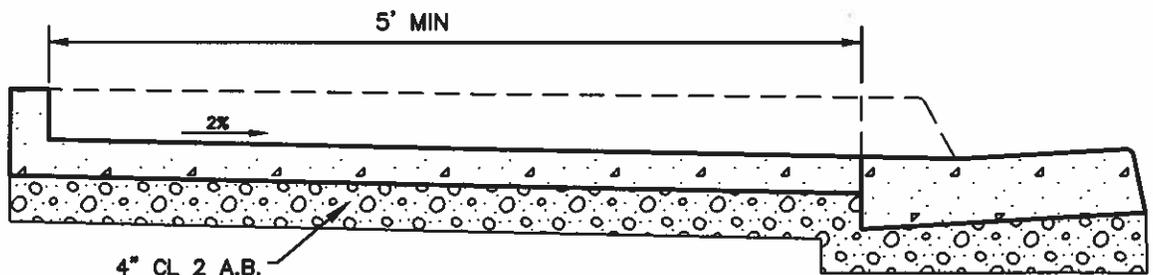
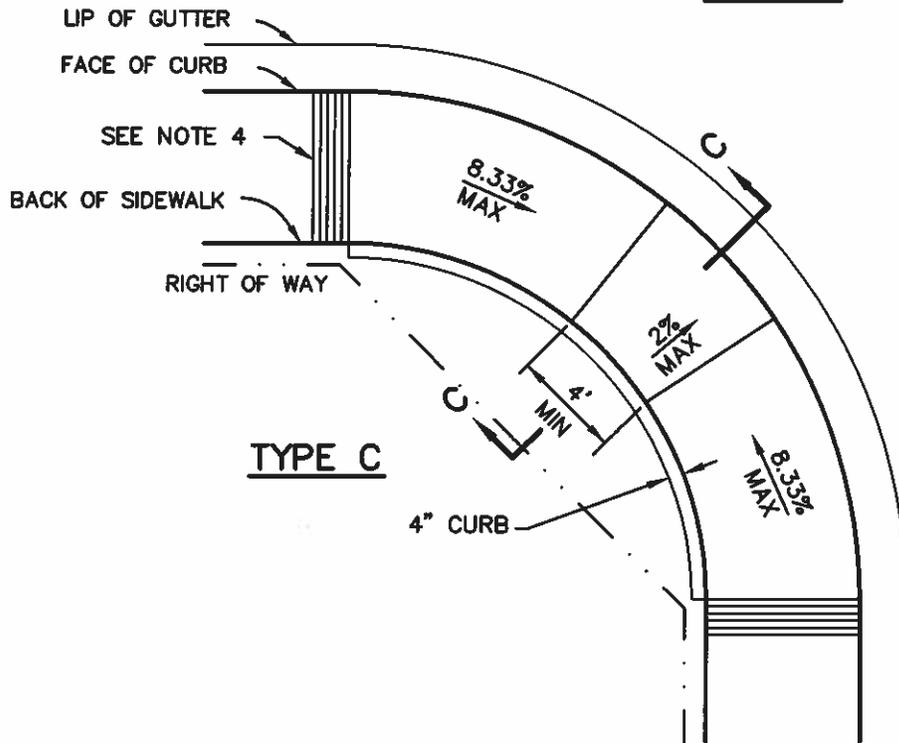
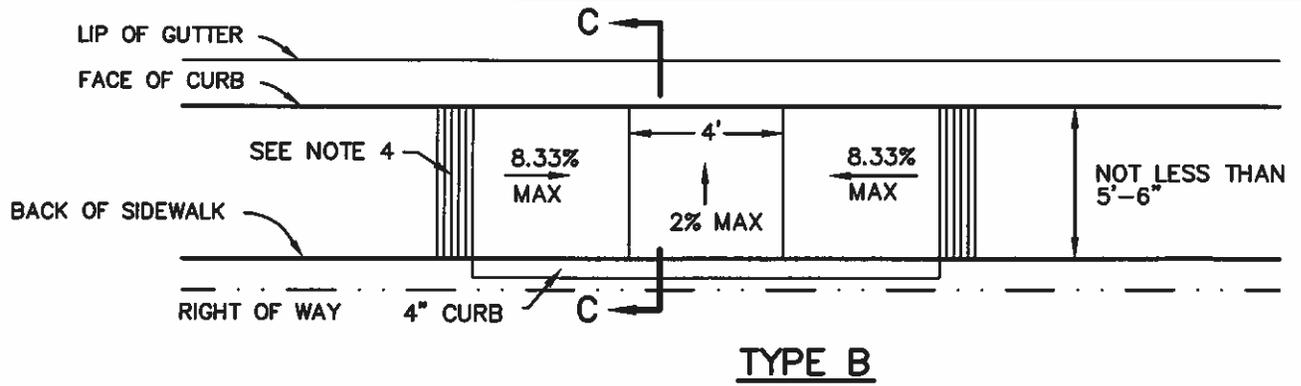
**SECTION A-A**



**PEDESTRIAN RAMP  
TYPE A**

**STD. NO.  
R-31**

SCALE: NONE | DRAWN: MGA | CHK: SAL | APPVD: PHK | DATE: JULY 1998



**NOTES:**

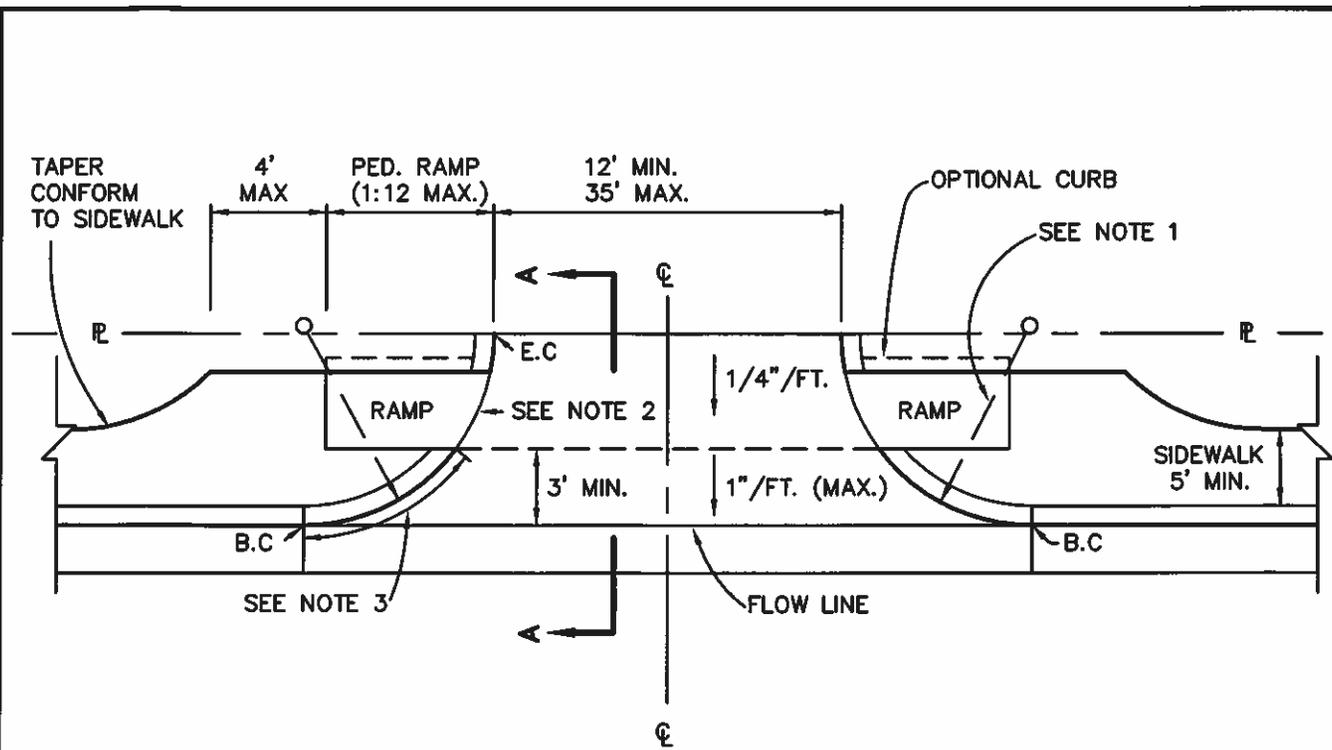
1. RAMP SHALL BE CONSTRUCTED WITH 1/2" LIP AND 45° BEVEL.
2. TYPE A AND C RAMPS SHALL BE LOCATED AT THE CENTER OF THE CURB RETURN.
3. CONCRETE SHALL BE CLASS "A" WITH NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD. SIDEWALK AND RAMP THICKNESS SHALL BE 4".
4. GROOVING DETAIL SHOULD BE PER SHEET R-3.1.
5. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.



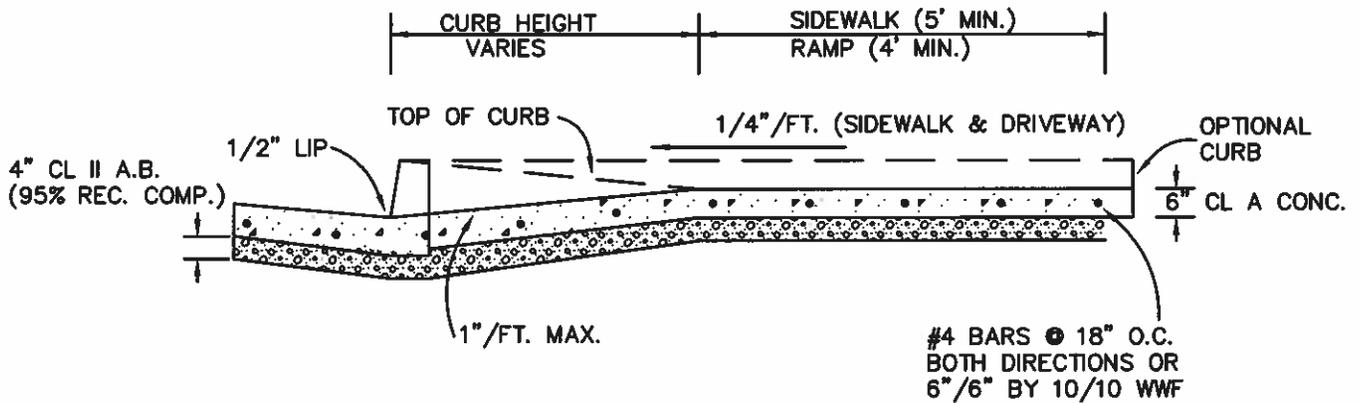
**PEDESTRIAN RAMP  
TYPE B AND C**

**STD. NO.  
R-3.2**

SCALE: NONE DRAWN: MGA CHK: SAL APPVD: PHK DATE: JULY 1998



**COMMERCIAL DRIVEWAY**



**A - A**

**NOTES**

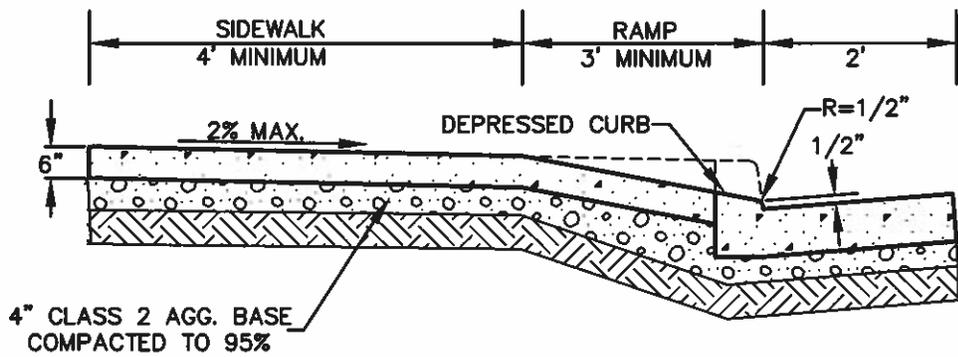
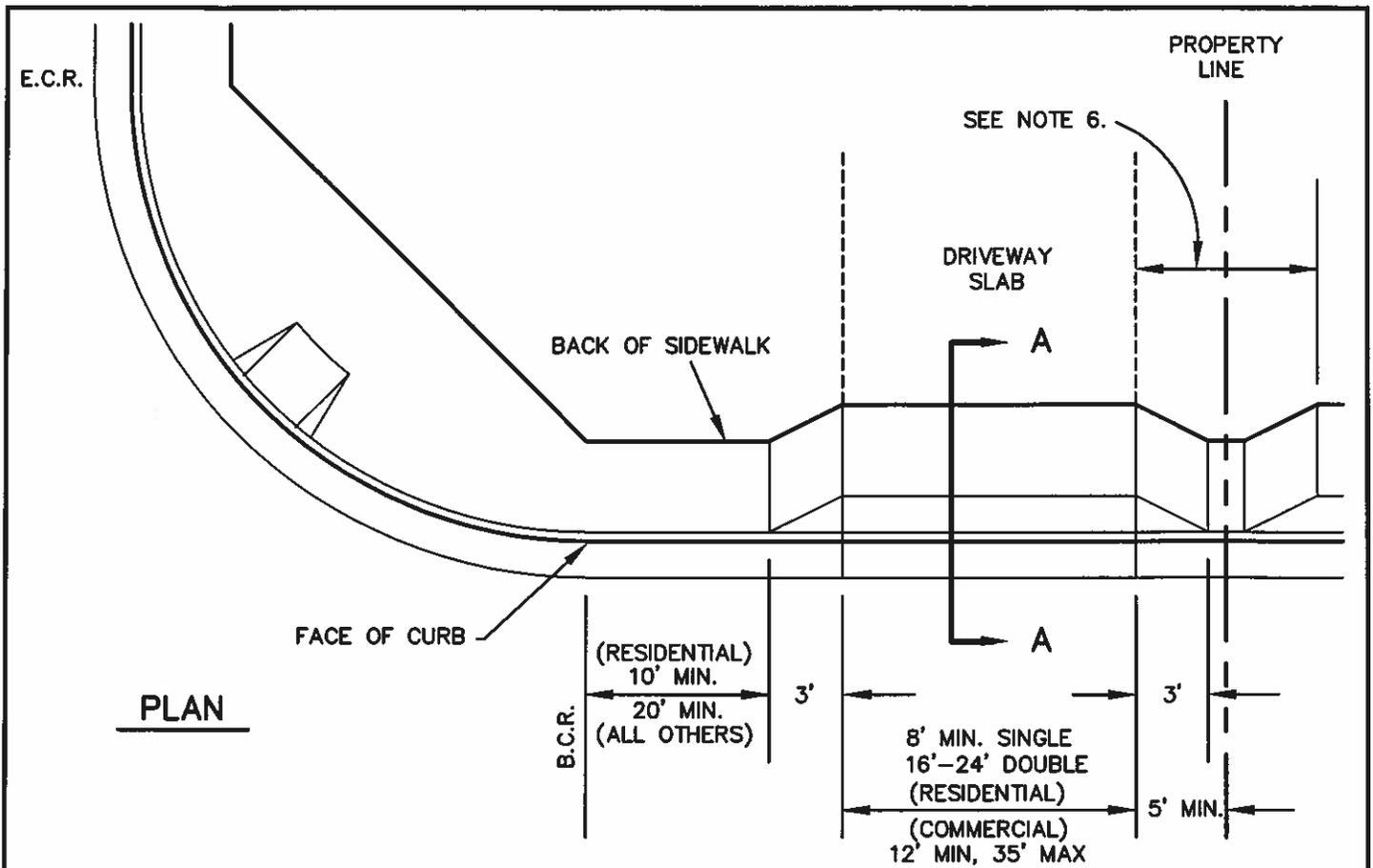
1. RADIUS TO BE A MINIMUM OF 10 FEET.
2. RAMP SHALL BE FLUSH ACROSS DRIVEWAY.
3. CURB HEIGHT VARIES FROM FULL HEIGHT AT B.C. TO FLUSH AT RAMP.



**COMMERCIAL DRIVEWAY  
AND ALLEY APPROACH**

**STD. NO.  
R-4.1**

SCALE: NONE | DRAWN: LMM | CHK: PHK | APPVD: PHK | DATE: JULY 1998



**NOTES:**

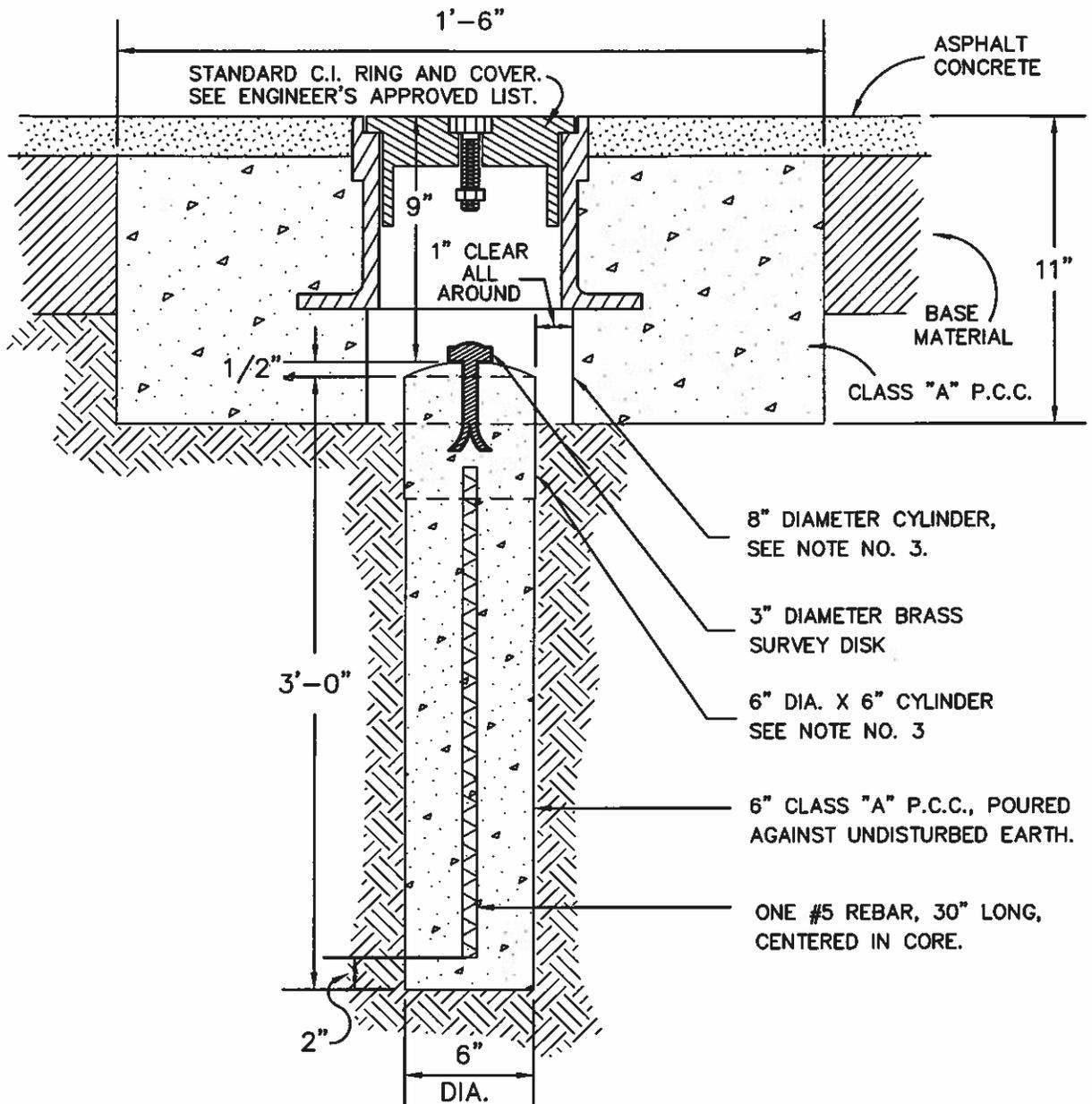
1. WEAKENED PLANE JOINTS SHALL BE INSTALLED AT THE CENTER OF ALL DRIVEWAYS OVER 20' WIDE.
2. MAXIMUM SIDEWALK CROSS SLOPE (1/4" PER FOOT).
3. WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 4' MINIMUM CLEARANCE.
4. ALL CONCRETE SHALL BE CLASS "A" CONTAINING NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
5. WELDED WIRE FABRIC (4"x4",10/10) SHALL BE PLACED THROUGHOUT COMMERCIAL AND INDUSTRIAL DRIVEWAYS WITHIN THE STREET RIGHT OF WAY.
6. IF DISTANCE BETWEEN DRIVEWAYS IS LESS THAN 10', OMIT CURB ISLAND.



**DRIVEWAY**

STD. NO.  
**R-4.2**

SCALE: NONE | DRAWN: MGA | CHK: SAL | APPVD: PHK | DATE: JULY 1998



**NOTES:**

1. SURVEYOR OR ENGINEER SETTING THE MONUMENT SHALL INDICATE EXACT POINT BY MAKING A CROSS ON THE CAP AND SHALL STAMP YEAR SET AND HIS/HER LICENSE TYPE AND NUMBER.
2. THE DEPTH OF THE MONUMENT POST SHALL BE LENGTHENED OR SHORTENED AS DICTATED BY THE GROUND CONDITIONS OR AS APPROVED BY THE CITY ENGINEER. IN SOFT GROUND OR FILL AREAS THE MONUMENT POST SHALL BE LENGTHENED TO BED IT ON A STABLE BASE.
3. CYLINDER MATERIAL SHALL BE THINWALL A.B.S. OR P.V.C. PLASTIC PIPE.
4. TOP OF MONUMENT CORE SHALL BE FINISHED SMOOTH AND ROUNDED WITH NO CONCRETE ABOVE EDGE OF BRASS SURVEY MARKER.
5. ASTM CLASS 30 IRON CASTINGS DIPPED IN ASPHALT PAINT



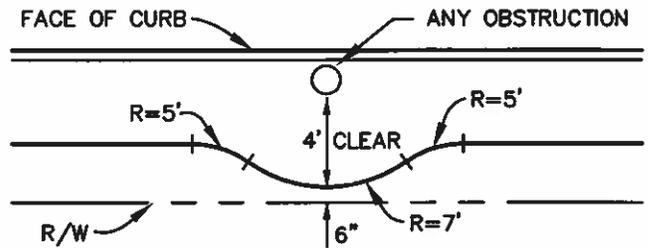
**CITY MONUMENT**

**STD. NO.  
R-5.1**

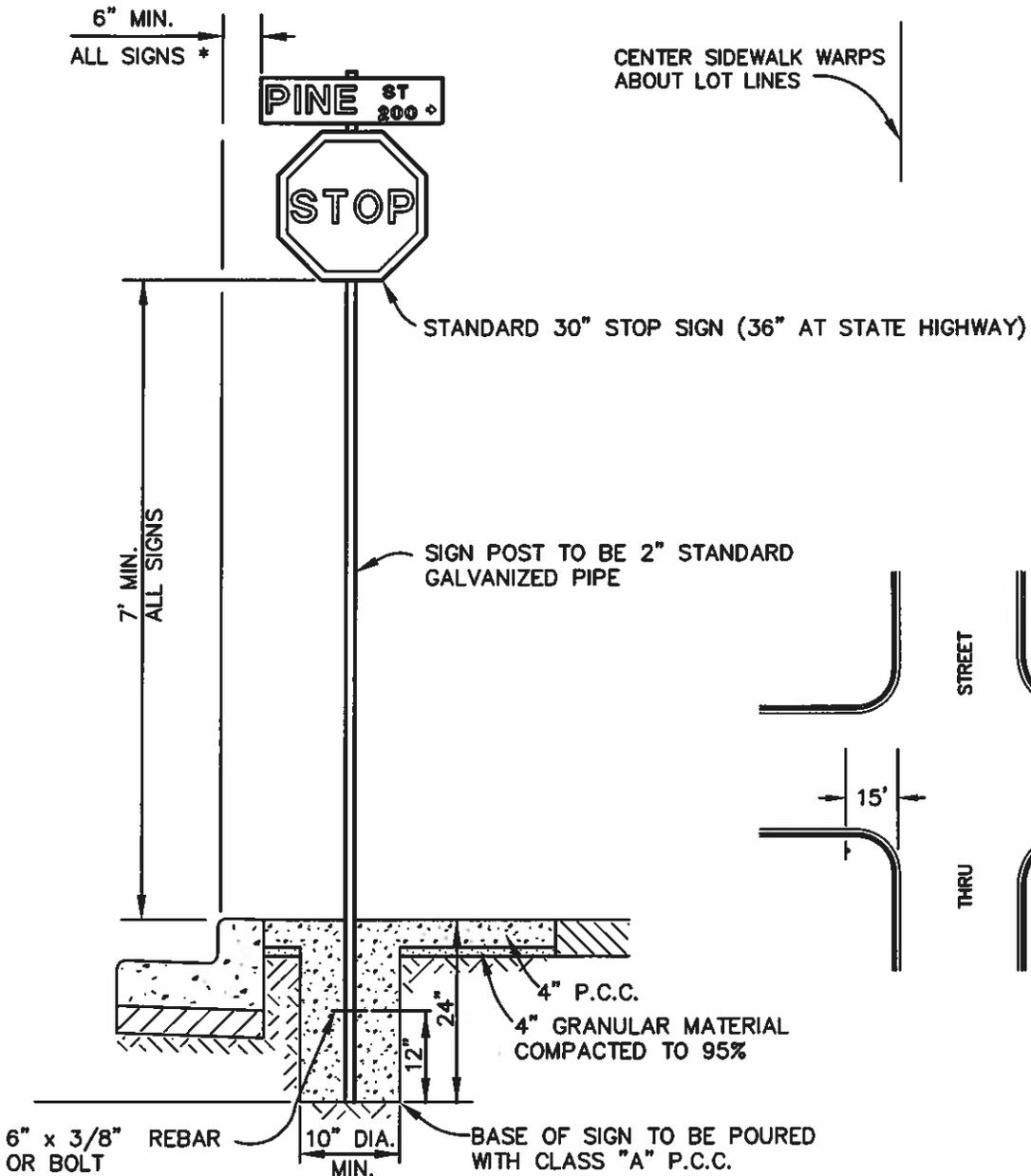
SCALE: NONE | DRAWN: MGA | CHK: SAL | APPVD: PHK | DATE: JULY 1998

# SIDEWALK WARP

\* MAY BE REDUCED TO 3" ON EXISTING STREETS TO PROVIDE A MINIMUM SIDEWALK CLEARANCE OF 3 FEET.



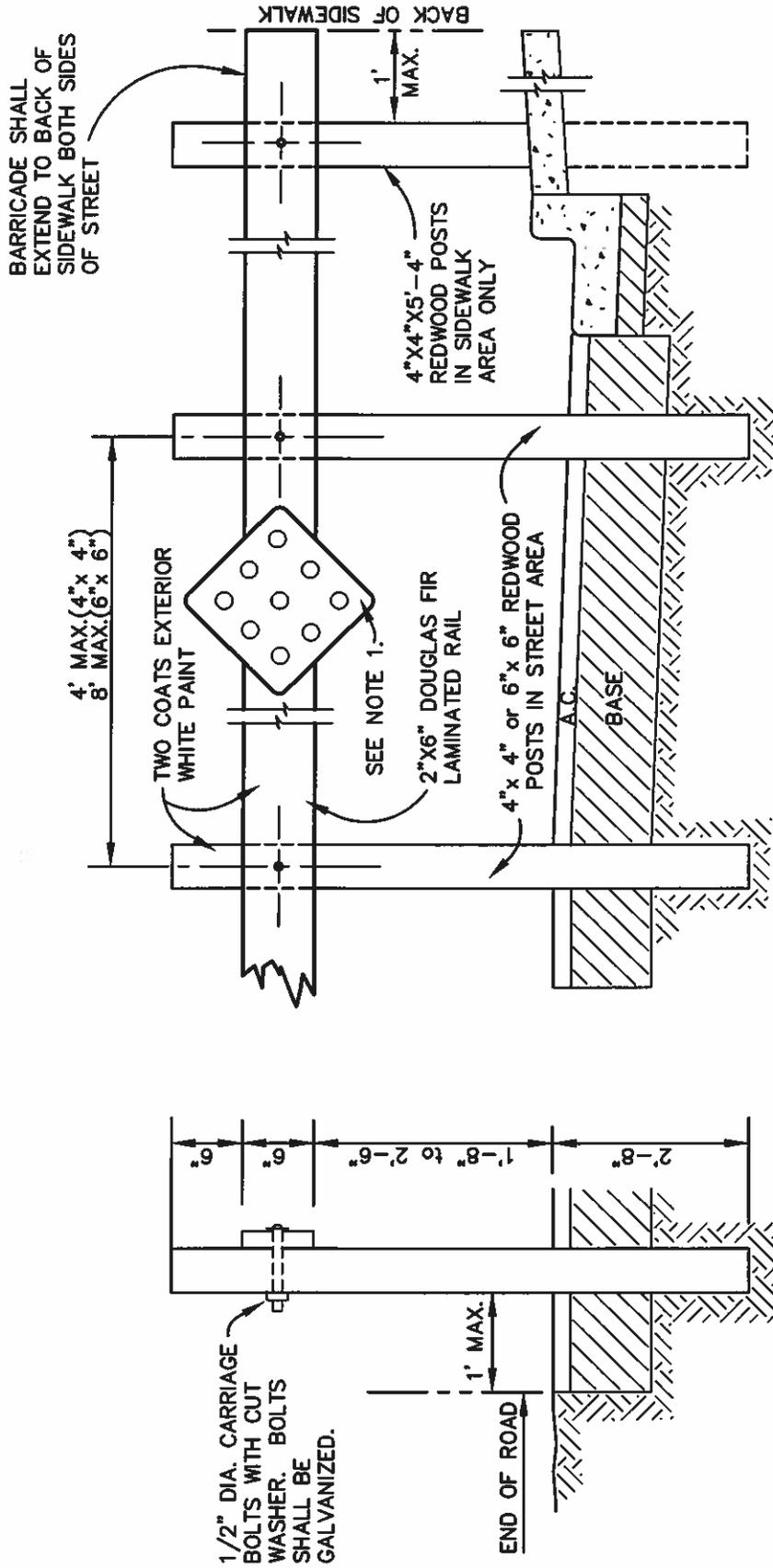
CENTER SIDEWALK WARPS ABOUT LOT LINES



## STREET NAME SIGN AND SIDEWALK WARP

STD. NO.  
**R-5.2**

SCALE: NONE | DRAWN: LMM | CHK: PHK | APPVD: PHK | DATE: JULY 1998



**NOTES:**

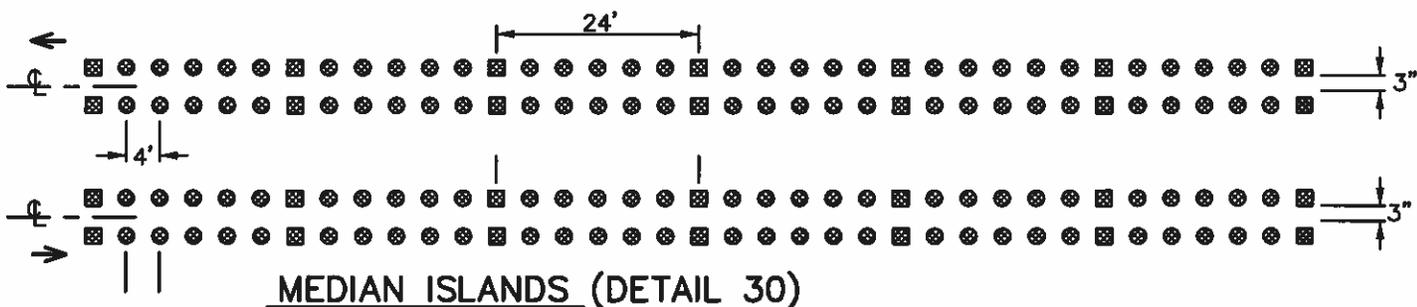
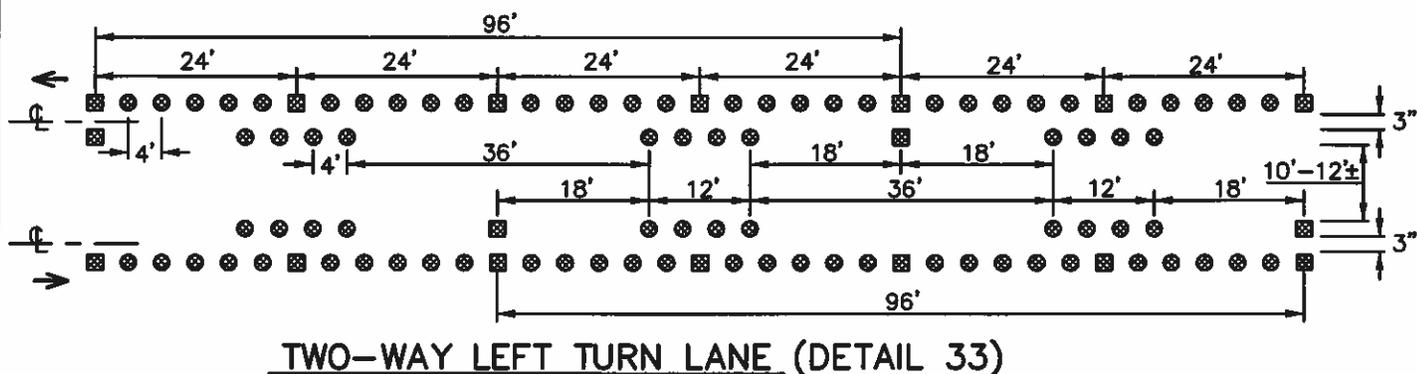
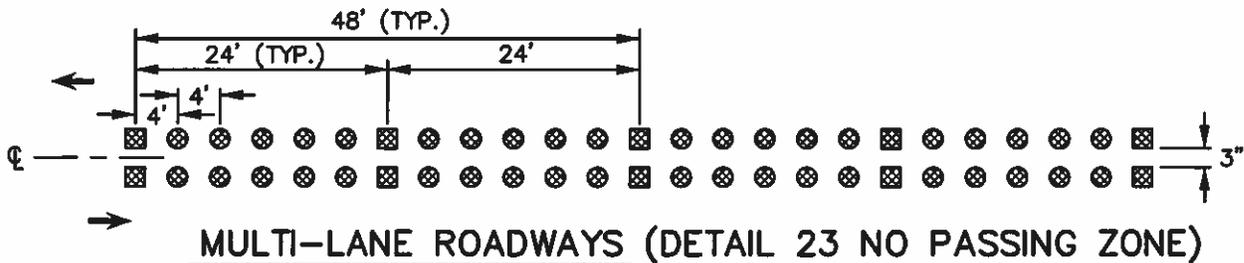
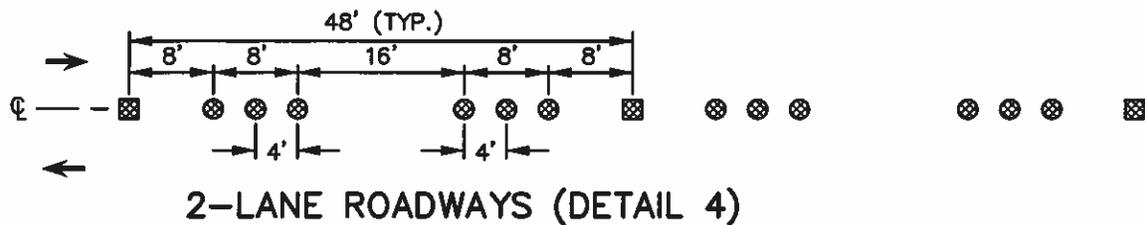
1. INSTALL 18" X 18" ALUMINUM TYPE N-5 REFLECTOR, NO MORE THAN 8' o.c., MINIMUM 3
2. SIDEWALKS ONLY - INSTALL 4" YELLOW REFLECTORS.



**STANDARD BARRICADE**

**STD. NO.  
R-5.3**

SCALE: NONE DRAWN: MGA CHK: SAL APPVD: PHK DATE: JULY 1998



**LEGEND**

- TWO-WAY YELLOW REFLECTIVE MARKER
- NON-REFLECTIVE YELLOW MARKER
- ➔ DIRECTION OF TRAVEL

**NOTES:**

1. FOR TWO LANE ROADWAYS, PLACE ADDITIONAL REFLECTORS AT 24 FT. O.C. ON CURVES WITH A RADIUS OF 750 FT. OR LESS.
2. THE FIRST AND LAST MARKER AT EACH INTERSECTION SHALL BE A REFLECTOR.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER
4. ALL PARKERS AND MARKER INSTALLATION SHALL MEET STATE STANDARDS EXCEPT AS NOTED.



**PAVEMENT MARKINGS: CENTER LINES,  
TWO-WAY LEFT TURN LANES,  
AND MEDIAN ISLANDS**

**STD. NO.  
R-5.4**

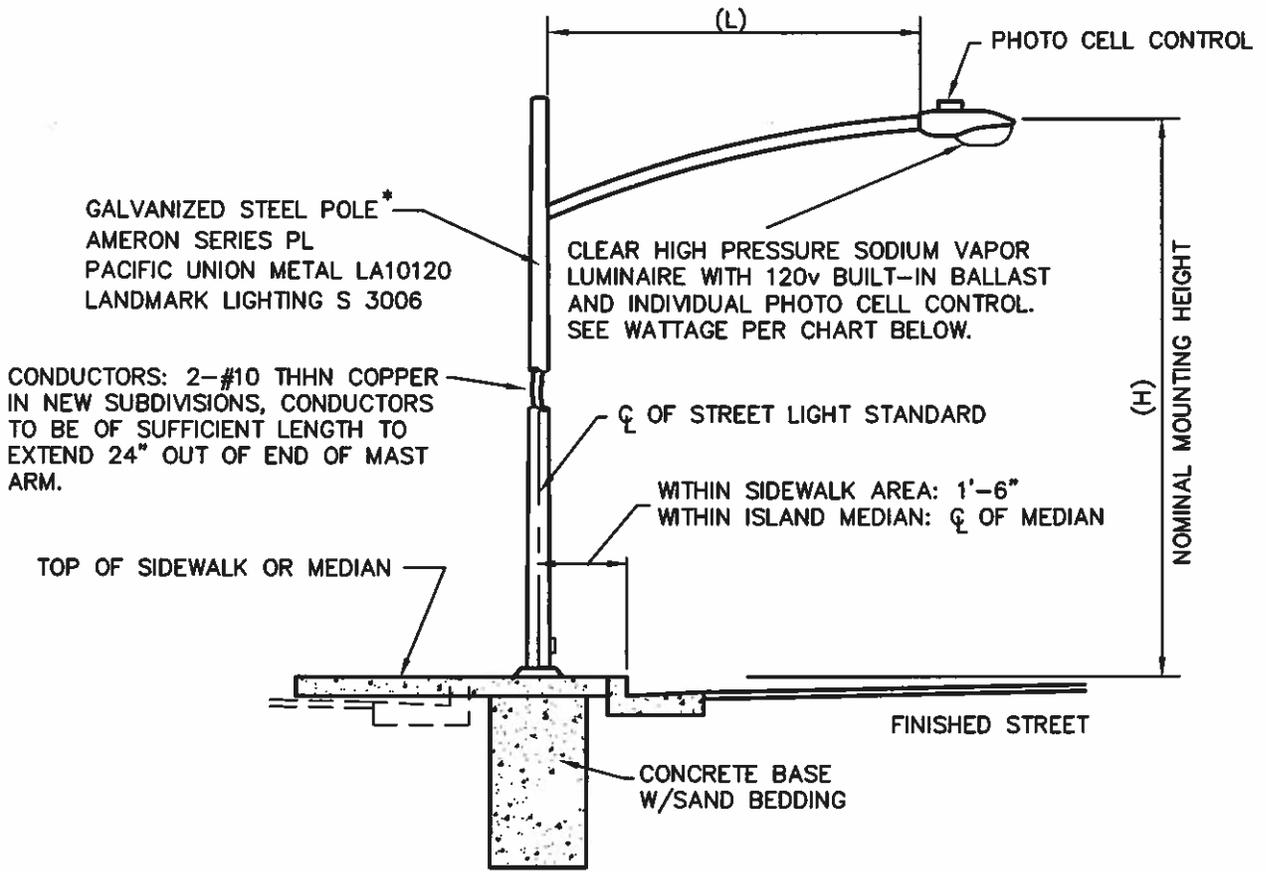
SCALE: NONE

MGA

CHK: SAL

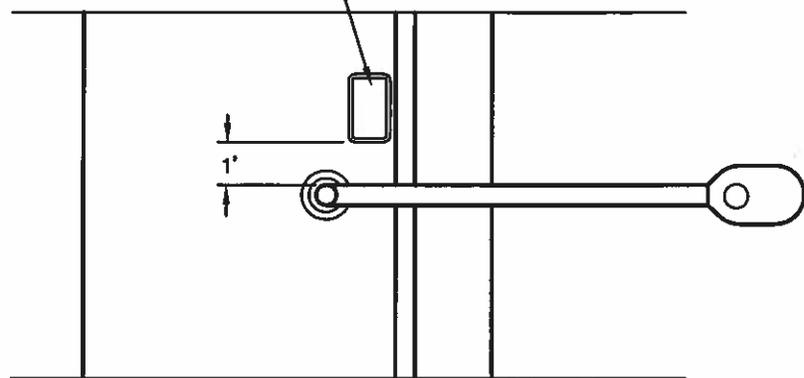
APPVD: PHK

DATE: JULY 1998



CONDUCTORS: 2-#10 THHN COPPER IN NEW SUBDIVISIONS, CONDUCTORS TO BE OF SUFFICIENT LENGTH TO EXTEND 24" OUT OF END OF MAST ARM.

INSTALL #5 CONCRETE PULLBOX  
 ● ALL LIGHT STANDARDS, NEXT TO POLE, PARALLEL AND FLUSH TO CURB & GUTTER



\*ALTERNATES TO BE SPECIFICALLY APPROVED BY THE CITY ENGINEER.

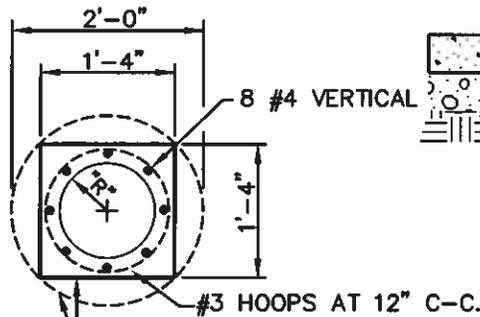
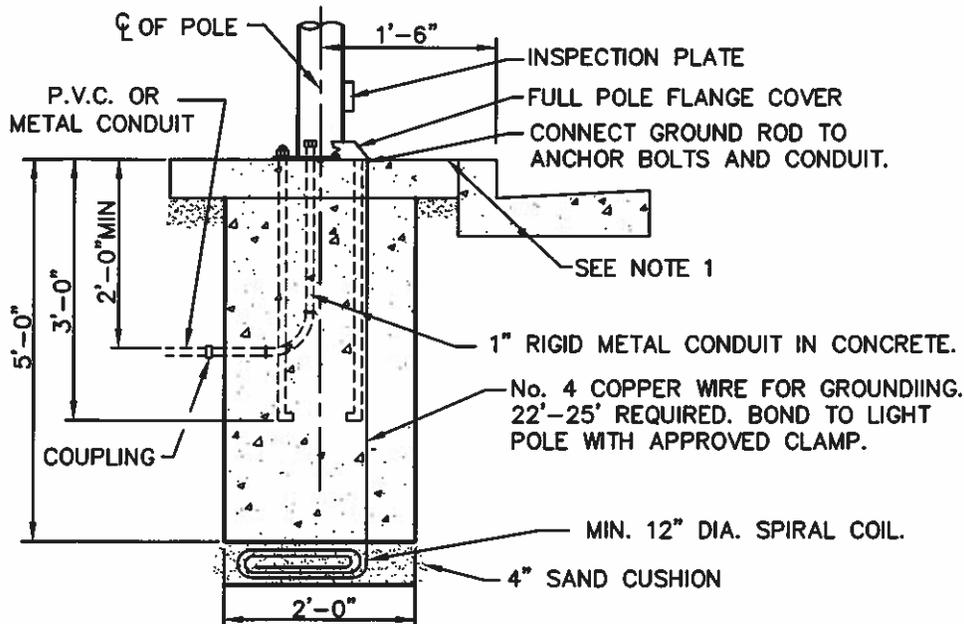
STREET CLASSIFICATION	POLE HEIGHT(H)	ARM LENGTH(L)	MAXIMUM SPACING	WATTAGE
ARTERIAL	32'-6"	8'-0"	100'	150
COLLECTOR, CUL-DE-SAC	28'-0"	6'-0"	200'	100
LOCAL	27'-6"	4'-0"	200'	70



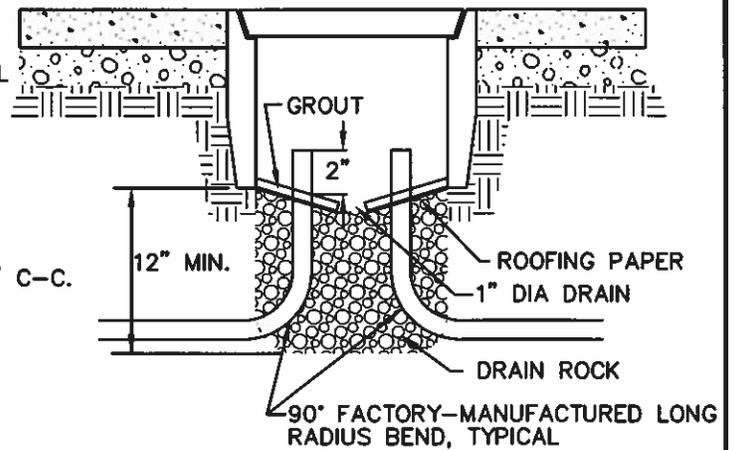
## STREET LIGHT

STD. NO.  
**R-6.1**

SCALE: NONE    DRAWN:    CHK:    APPVD:    DATE: JULY 1998



OPTIONAL SQUARE OR ROUND FOOTING



PULLBOX

**NOTES:**

- 1 IN UNDEVELOPED AREAS, CONSTRUCT A 2'x2' CONC. PAD (4" THICK). IF ROUND FOOTING IS POURED, STOP AT THE ELEVATION OF BOTTOM OF THE SIDEWALK.
- 2 ANCHOR BOLT DIMENSION "R" AND BOLT PATTERN TO SUIT POLE BASE FURNISHED.
- 3 CONCRETE SHALL BE CLASS "A" P.C.C. AGAINST UNDISTURBED SOIL.
- 4 SEE ENGINEER'S APPROVED LIST FOR ALTERNATE FOUNDATIONS.
- 5 A MINIMUM OF TWO FULL THREADS TO BE EXPOSED ABOVE ANCHOR BOLT NUTS.



**STREET LIGHT POLE FOUNDATION**

STD. NO.  
**R-6.2**

SCALE: NONE | DRAWN: LMM | CHK: PHK | APPVD: PHK | DATE: JULY 1998