PRIOR TO ISSUING A BUILDING PERMIT, THE CITY OF MANTECA BUILDING INSPECTION DEPARTMENT SHALL RECEIVE WRITTEN CONFORMATION FROM THE CITY ENGINEER AND FIRE CHIEF STATING THAT ALL STREETS WITHIN THE DEVELOPMENT MEET "ALL WEATHER ROAD" STANDARDS.

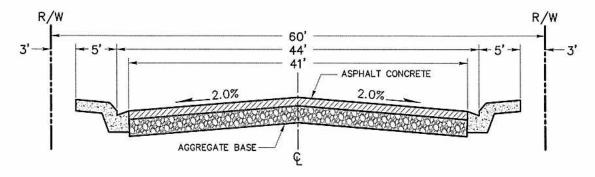
TO BE CONSIDERED AN "ALL WEATHER ROAD" THE FOLLOWING CRITERIA SHALL BE MET:

- 1. A SOILS REPORT, PREPARED BY A SOILS ENGINEER, SHALL BE SUBMITTED TO THE CITY ENGINEER. THE REPORT SHALL INCLUDE THE FOLLOWING INFORMATION:
  - A) SOIL CLASSIFICATION BY UNIFIED SOIL CLASSIFICATION SYSTEM
  - B) R-VALUES
  - C) DENSITY CURVES SHOWING MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT
  - D) LOG OF SOIL BORINGS
  - E) AN EVALUATION, BY THE SOILS ENGINEER, STATING MINIMUM REQUIREMENTS FOR THE NATIVE SOIL TO FUNCTION AS AN "ALL WEATHER ROAD"
- 2. ALL CURB, GUTTER AND SIDEWALK SHALL BE INSTALLED IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS.
- 3. ALL TRENCHES IN THE ROAD AREA SHALL BE FILLED AND COMPACTED TO CITY STANDARDS. TRENCHING IN AN APPROVED "ALL WEATHER ROAD" SURFACE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY ENGINEER SHALL BE CAUSE FOR ISSUANCE OF A STOP WORK NOTICE BY THE BUILDING INSPECTION DEPARTMENT.
- 4. FIRE HYDRANTS AND WATER SYSTEMS SHALL BE PRESSURE TESTED, BACTERIOLOGICAL TESTED AND APPROVED. BLANK PLATES AND JUMPERS SHALL BE REMOVED TO PROVIDE AN APPROVED WATER SUPPLY CAPABLE OF SUPPLYING REQUIRED FIRE FLOW FOR FIRE PROTECTION TO ALL PREMISES UPON WHICH BUILDINGS OR PORTIONS OF BUILDINGS ARE HEREAFTER CONSTRUCTED, IN ACCORDANCE WITH THE CURRENT "UNIFORM FIRE CODE".
- 5. SEWER AND STORM DRAIN SYSTEM SHALL BE INSTALLED, TESTED AND APPROVED.
- 6. ALL UTILITIES SHALL HAVE A MINIMUM OF THIRTY INCHES OF COVER.
- 7. PRIOR TO ACCEPTANCE OF SUBDIVISION ROADS AS "ALL WEATHER ROADS" THEY SHALL BE INSPECTED AND APPROVED BY THE CITY ENGINEER AND FIRE CHIEF.

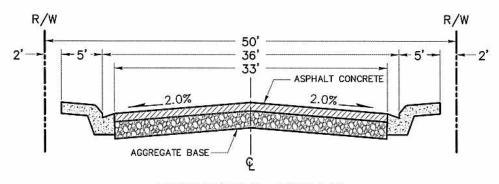
THE CITY ENGINEER OR FIRE CHIEF SHALL HAVE AUTHORITY TO TERMINATE CONSTRUCTION AT ANY TIME IF ANY OF THE AFOREMENTIONED CONDITIONS ARE VIOLATED.

NO. REVISED EY APPROVED BY: **ALL WEATHER ROADS** mr. Brinton DRAWN BY: J. BOND DIRECTOR OF PUBLIC WORKS CHECKED BY: J. PODESTA DRAWING NO. CITY MANTECA OF SCALE: NONE DEPARTMENT OF PUBLIC WORKS DATE: JAN. 1988

PRINTED ON DIEPO NO 1000H CLEARPRINT



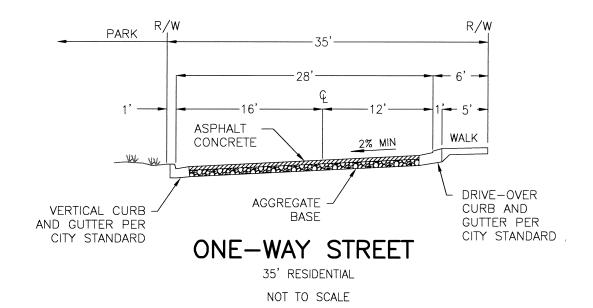
# SMALL COLLECTOR STREET 60' RIGHT-OF-WAY WITH DRIVE-OVER OR VERTICAL CURB



RESIDENTIAL STREET
50' RIGHT-OF-WAY WITH DRIVE-OVER OR VERTICAL CURB

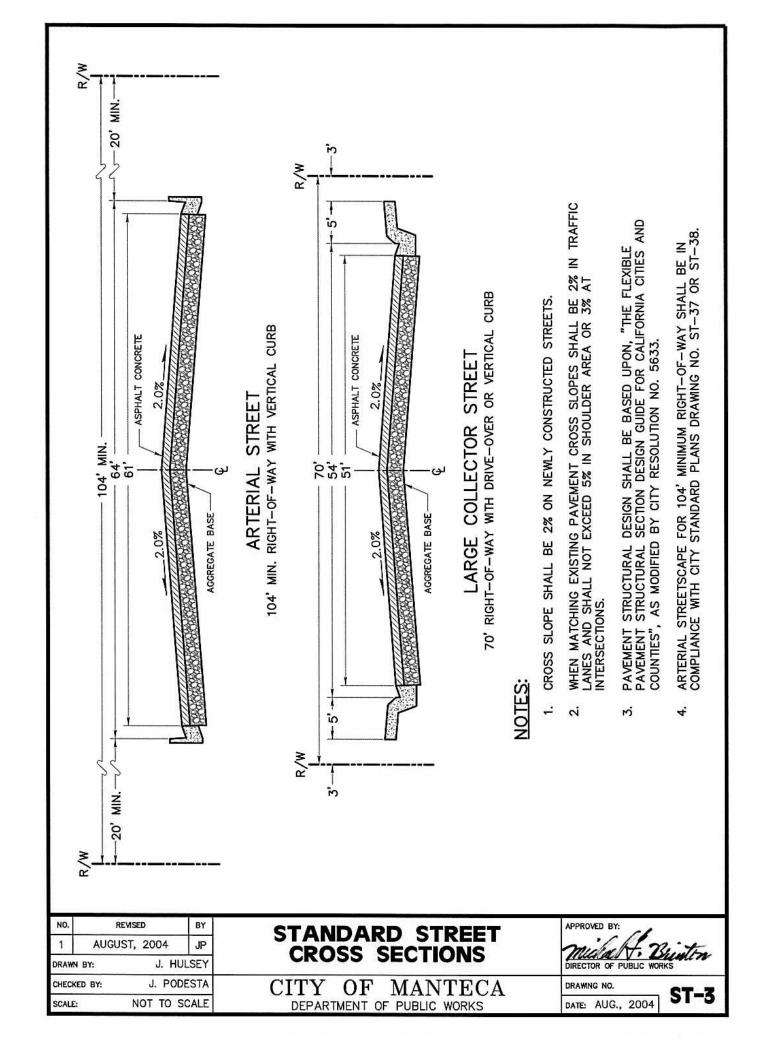
- 1. CROSS SLOPE SHALL BE 2% ON NEWLY CONSTRUCTED STREETS.
- WHEN MATCHING EXISTING PAVEMENT CROSS SLOPES SHALL BE 2% IN TRAFFIC LANES AND SHALL NOT EXCEED 5% IN SHOULDER AREA OR 3% AT INTERSECTIONS.
- 3. PAVEMENT STRUCTURAL DESIGN SHALL BE BASED UPON, "THE FLEXIBLE PAVEMENT STRUCTURAL SECTION DESIGN GUIDE FOR CALIFORNIA CITIES AND COUNTIES", AS MODIFIED BY CITY RESOLUTION NO. 5633.

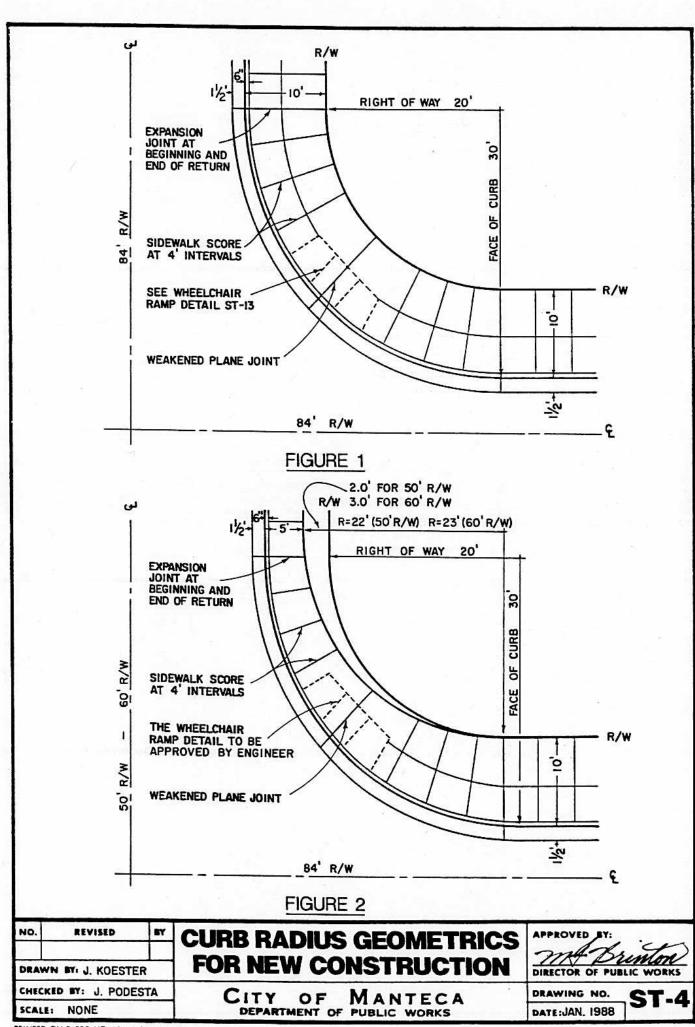
NO.	REVISED AUGUST, 2004	BY JP	STANDARD STREET CROSS SECTIONS	APPROVED BY:
DRAWN	BY: J. HUL	.SEY	CROSS SECTIONS	DIRECTOR OF PUBLIC WORKS
CHECKE	ED BY: J. PODE	STA	CITY OF MANTECA	DRAWING NO.
SCALE:	NOT TO SO	CALE	DEPARTMENT OF PUBLIC WORKS	DATE: AUG., 2004 ST-2



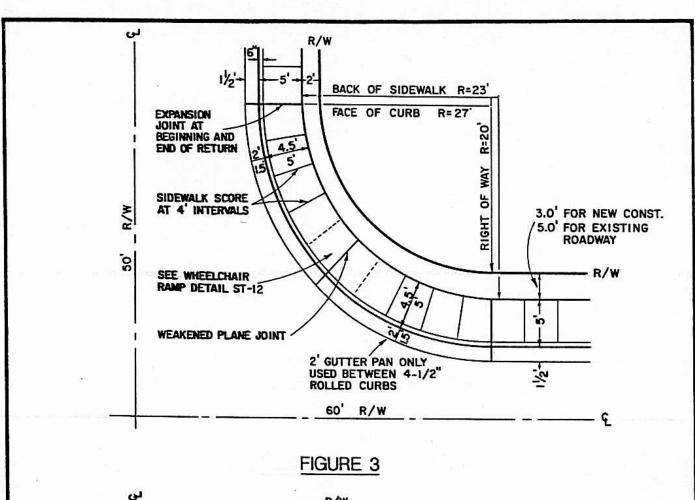
- 1. CROSS SLOPE SHALL BE 2% ON NEWLY CONSTRUCTED STREETS.
- 2. WHEN MATCHING PAVEMENT CROSS SLOPES SHALL BE 2% IN TRAFFIC LANES AND SHALL NOT EXCEED 5% IN SHOULDER AREA OR 3% AT INTERSECTIONS.
- 3. PAVEMENT STRUCTURAL DESIGN SHALL BE BASED UPON, "THE FLEXIBLE PAVEMENT STRUCTURAL SECTION DESIGN GUIDE FOR CALIFORNIA CITIES AND COUNTIES", AS MODIFIED BY CITY RESOLUTION NO. 5633.
- 4. THE PARK SIDE OF THE ROAD SHALL BE DESIGNATED "NO PARKING" BY RED CURB AND/OR SIGNAGE IN ACCORDANCE WITH THE CALIFORNIA FIRE CODE, AND AS REQUIRED BY THE FIRE DEPARTMENT.

NO. REVISED BY	ONE LANE STREET	APPROVED BY:
1 AUGUST, 2016 MM	0112 271112 0111221	Mint . Ch
DRAWN BY: M. Mosquera	CROSS SECTION	CITY ENGINEER
CHECKED BY: F. Clark	CITY OF MANTECA	DRAWING NO. ST-2A
SCALE: NONE	DEPARTMENT OF PUBLIC WORKS	DATE: AUG. 2016





PRINTED ON DIEPO NO 1000H CLEARPRINT



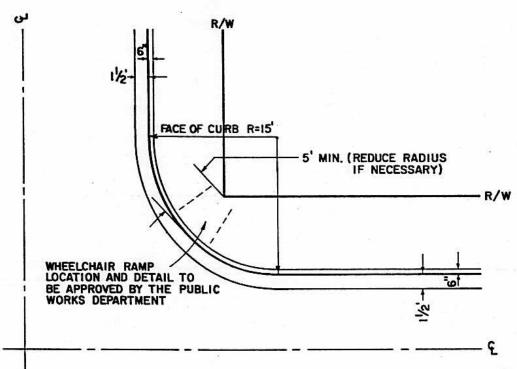


FIGURE 4

CURB RADIUS GEOMETRICS

FOR EXISTING ROADWAYS

CHECKED BY: J. PODESTA

SCALE: NONE

CURB RADIUS GEOMETRICS

FOR EXISTING ROADWAYS

APPROVED BY:

MANTECA

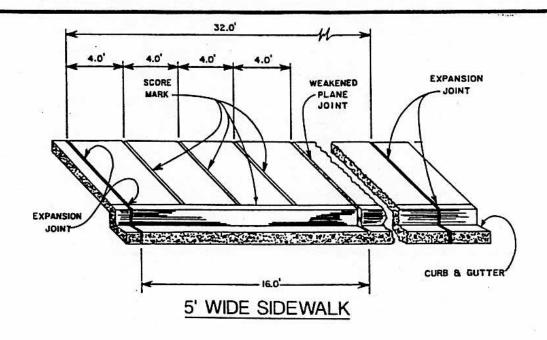
DRAWING NO.

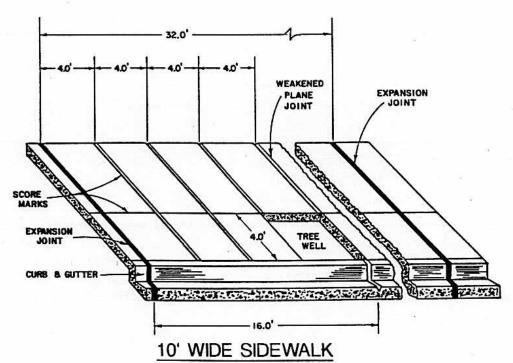
DATE: JAN. 1988

APPROVED BY:

MANTECA

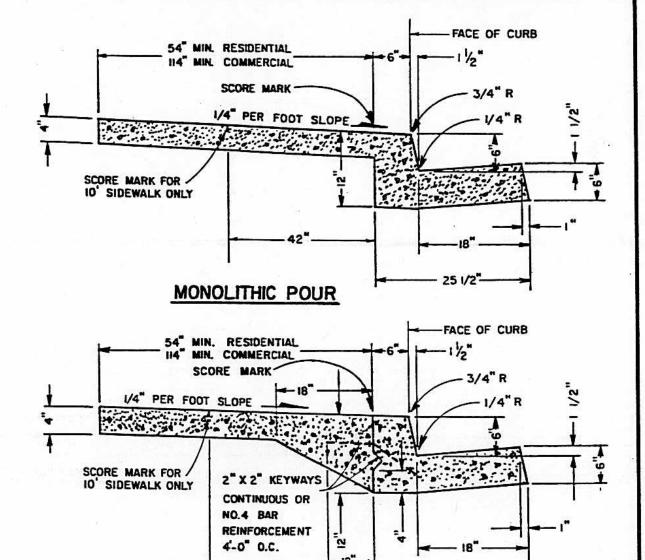
DATE: JAN. 1988





- 1. WEAKENED PLANE 1/4" WIDE x 1-1/4" DEEP SHALL BE PLACED MIDWAY BETWEEN EXPANSION JOINTS, 32'-0" ON CENTER.
- 2. EXPANSION JOINTS MATERIAL SHALL BE 1/2" EXPANSION PAPER TO BE PLACED 1/4" BELOW GRADE EVERY 32'-0" ON CENTER AT RADIUS RETURNS, EACH SIDE OF DRIVEWAYS, EACH SIDE OF TREE WELLS AND AROUND WOOD POLES.
- 3. SCORE MARKS 1/8" x 1/4" DEEP SHALL BE MADE EVERY 4'-0" ON CENTER. FOR SIDEWALKS 10' IN WIDTH AND A LONGITUDINAL SCORE MARK SHALL BE PLACED 54" FROM THE FACE OF CURB.
- 4. IF CURB, GUTTER AND SIDEWALK ARE NOT POURED MONOLITHICALLY, SEGMENTS SHALL BE KEYED AS SHOWN ON DRAWING ST-7, ST-8 AND ST-10.

NO.	I JAN. 1988 JK	BY		APPROVED BY:		
1	JAN. 1988	JK	SIDEWALK DETAILS MEDING	MBriston		
DRAWN BY: A. MENOR		R		DIRECTOR OF PUBLIC WORKS		
CHECK	ED SY: J. PODE	STA	CITY OF MANTECA	DRAWING NO. ST.		
SCALE	: NONE		(2)	DATE:JAN. 1988		



# SEPARATE POURS

- 42"

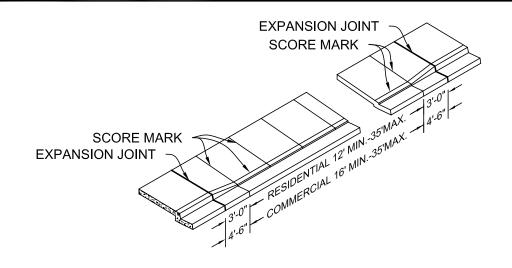
25 1/2

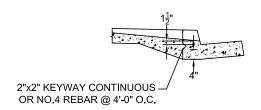
## NOTES:

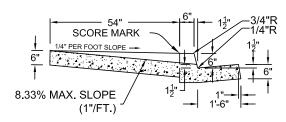
- L A "W" FOR WATER SERVICES AND A "S" FOR SEWER LATERALS SHALL BE STAMPED AT BACK OF SIDEWALK OVER APPROPRIATE SERVICES IN LETTERS 2"-3" HIGH X 1/4" DEEP.
- 2. MINIMUM GUTTER SLOPE TO BE .0025 FT/FT.
- 3. VERTICAL FACES TO BE FORMED ON ALL REPAIR WORK UNLESS POURING AGAINST EXISTING CONCRETE.

NO.	JAN. 1988	JK	VERTICAL CURB, GUTTER AND SIDEWALK	APPROVED BY:
DRAW	N BY A. MENOR	3	GUITER AND SIDEWALK	DIRECTOR OF PUBLIC WORKS
CHEC	CED BY: J. PODE		CITY OF MANTECA	DRAWING NO. ST-7
SCALE	: NONE		DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988

PRINTED ON DIEPO NO. 1000H CLEARPRINT

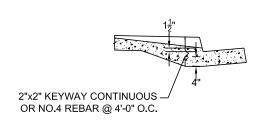


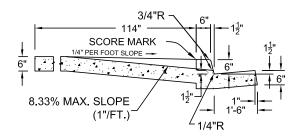




MONOLITHIC POUR

#### DRIVEWAY FOR 5 FOOT SIDEWALK



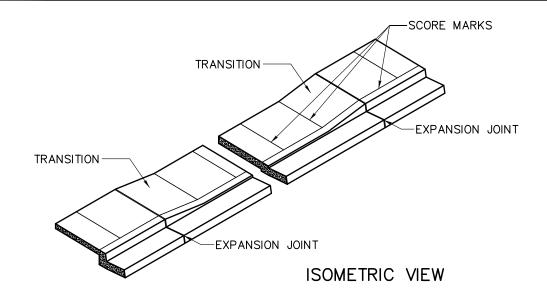


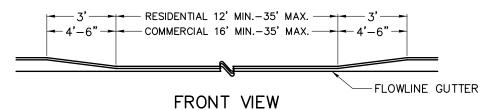
MONOLITHIC POUR

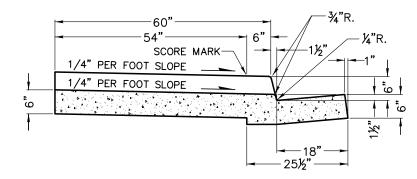
# **DRIVEWAY FOR 10 FOOT SIDEWALK**

- 1. DRIVEWAY SHALL BE A MINIMUM OF 3 FEET FROM SIDE PROPERTY LINE.
- 2. SIDEWALK SCORING TO MATCH EXISTING OR TO BE PLACED AT 4 FOOT INTERVALS ON NEW CONSTRUCTION.
- 3. DRIVEWAYS ON RESIDENTIAL CORNER LOTS SHALL NOT BE LOCATED ON THAT HALF OF THE LOT FRONTAGE NEAREST THE RADIUS RETURN, NOR CLOSER THAN 20 FEET FROM SAID RADIUS RETURN.
- 4. #4 REBAR @ 18" O.C. EACH WAY SHALL BE USED FOR COMMERCIAL DRIVEWAYS.

NO.	REVISED	BY	DRIVEWAYS FOR VERTICAL	APPROVED BY:
2	SEPT 2004	SF		
DRAW	VN BY: S. FO	X	CURB AND GUTTER	DIRECTOR OF PUBLIC WORKS
CHEC	KED BY: J. PODES	TA	CITY OF MANTECA	DRAWING NO. ST_RA
SCAL	e: NONE		DEPARTMENT OF PUBLIC WORKS	DATE: JAN 1988



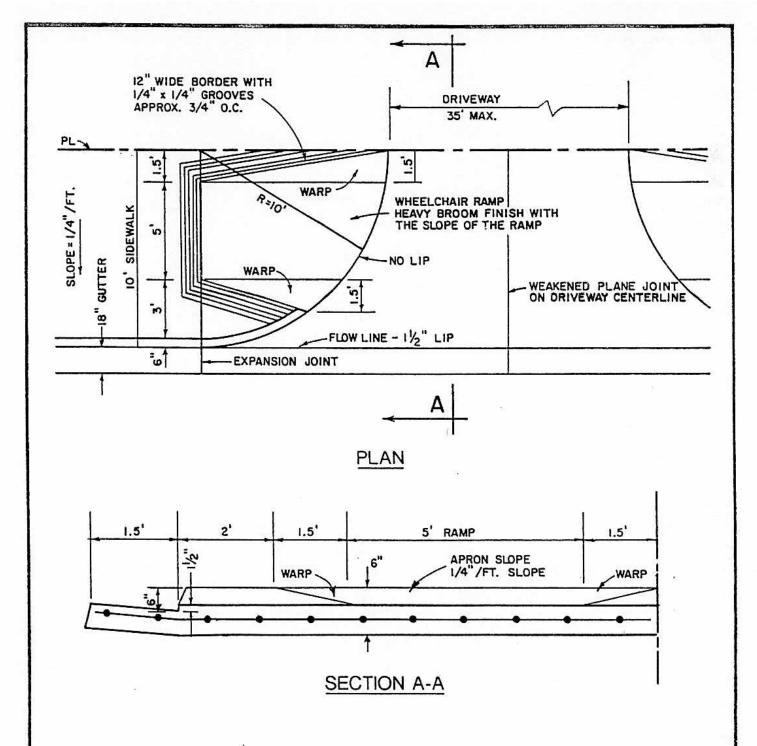




CROSS-SECTION

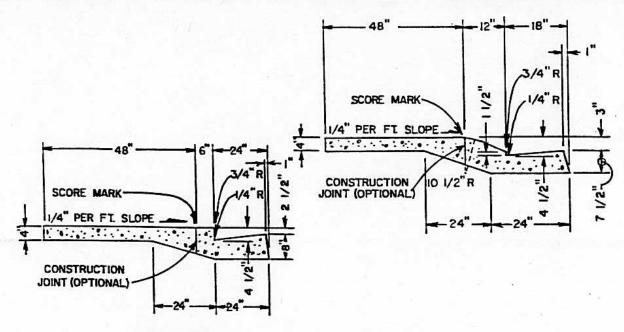
- 1. THIS MODIFIED DRIVEWAY FOR VERTICAL CURB & GUTTER SHALL ONLY BE USED WHEN APPROVED BY THE CITY ENGINEER.
- 2. DRIVEWAYS SHALL BE A MINIMUM OF 3 FEET FROM SIDE PROPERTY LINE.
- SIDEWALK SCORING TO MATCH EXISTING OR TO BE PLACED AT 4 FOOT INTERVALS ON NEW CONSTRUCTION.
- 4. DRIVEWAYS ON RESIDENTIAL CORNER LOTS SHALL NOT BE LOCATED ON THAT HALF OF THE LOT FRONTAGE NEAREST THE RADIUS RETURN, NOR CLOSER THAN 20 FEET FROM SAID RADIUS RETURN.
- 5. COMMERCIAL AND INDUSTRIAL DRIVEWAYS SHALL HAVE #4 REBARS 18" O.C. EACH WAY.

NO.	REVISED	BY	MODIFIED DRIVEWAY FOR VERTICAL CURB & GUTTER	APPROVED BY:
DRAWN BY	y: J. HULS	EΥ	VERTICAL CURB & GUTTER	DIRECTOR OF PUBLIC WORKS
CHECKED	BY: J. PODES	TA	CITY OF MANTECA	DRAWING NO.
SCALE:	NOT TO SCA	\LE	DEPARTMENT OF PUBLIC WORKS	DATE: SEPT. 2004



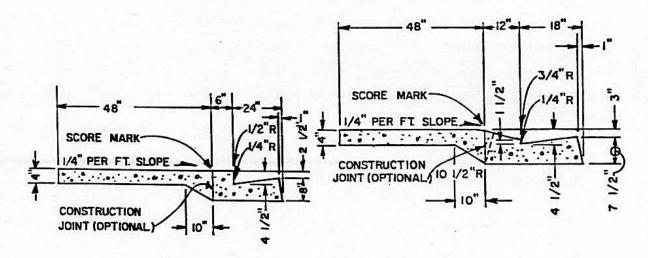
- 1. THIS DRIVEWAY IS TO BE USED ONLY WHERE APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- 2. REINFORCING SHALL BE #4 BARS AT 18" ON CENTER EACH WAY OR AN EQUIVALENT WELDED WIRE FABRIC UPON APPROVAL OF THE ENGINEER.

NO.	OCT. 1989 JK LAWN BY: J. KOESTER HECKED BY: J. PODESTA		SPECIAL COMMERCIAL	
1	OCT. 1989	JK		Mounton
DRAW	N MI J. KOESTE	R	DRIVEWAY	DIRECTOR OF PUBLIC WORKS
CHECK	ED BY: J. PODES	AT	CITY OF MANTECA	DRAWING NO. CT O
SCALE	: NONE	+	DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988



RADIUS DETAIL

# BRIZENDINE MACHINE BASE OR EQUAL

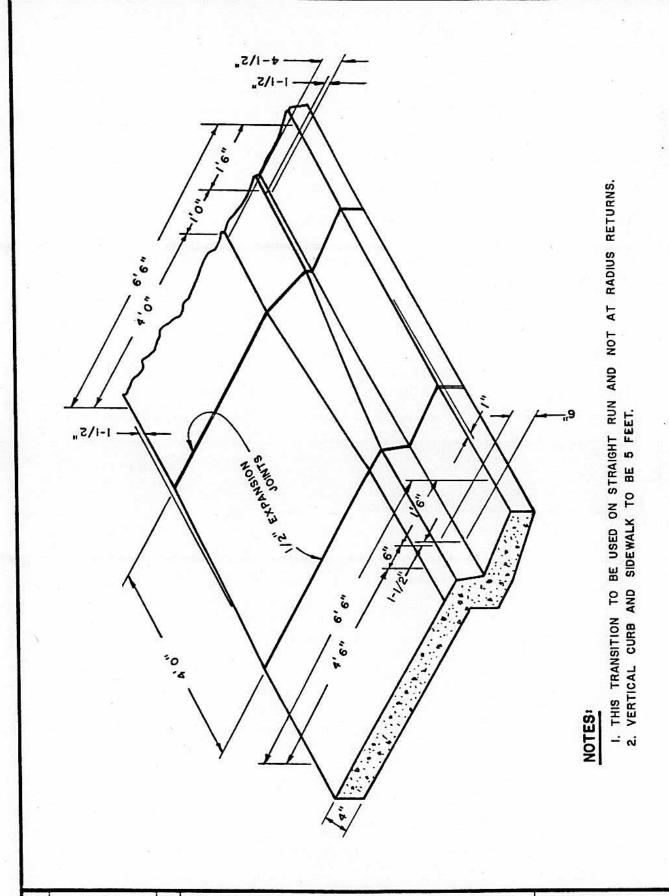


#### RADIUS DETAIL

# STANDARD

- L A "W" FOR WATER SERVICES AND A "S" FOR SEWER LATERALS SHALL BE STAMPED AT THE BACK OF SIDEWALK OVER APPROPRIATE SERVICES IN LETTERS 2"-3" HIGH X 1/4" DEEP.
- 2. MINIMUM GUTTER SLOPE TO BE .0025 FT/FT
- 3. VERTICAL FACES TO BE FORMED ON ALL REPAIR WORK UNLESS POURING AGAINST EXISTING CONCRETE.

NO. REVISED I	DRIVE-UVER CURB	APPROVED BY:
DRAWN BY: A. MENOR	GUTTER AND SIDEWALK	DIRECTOR OF PUBLIC WORKS
CHECKED BY: J. PODESTA	CITY OF MANTECA	DRAWING NO. ST-10
SCALE: NONE	DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988



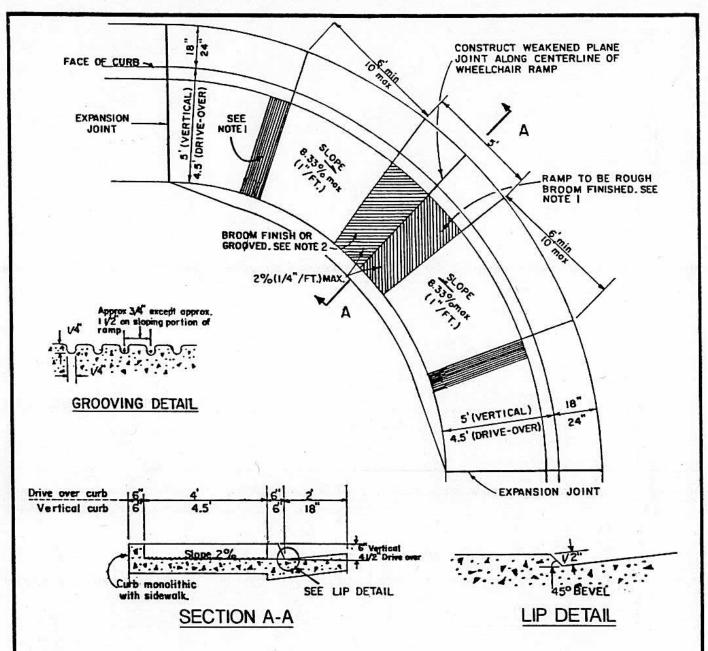
NO.	REVISED	SY	VERTICAL CURB TRANSITION	APPRO
DRAWN	N BY: C. SABER	RTON	TO DRIVE-OVER CURB	DIRECTO
CHECKE	D MY: J. PODE	STA	CITY OF MANTECA	DRAWII

DEPARTMENT OF PUBLIC WORKS

DATE: JAN, 1988

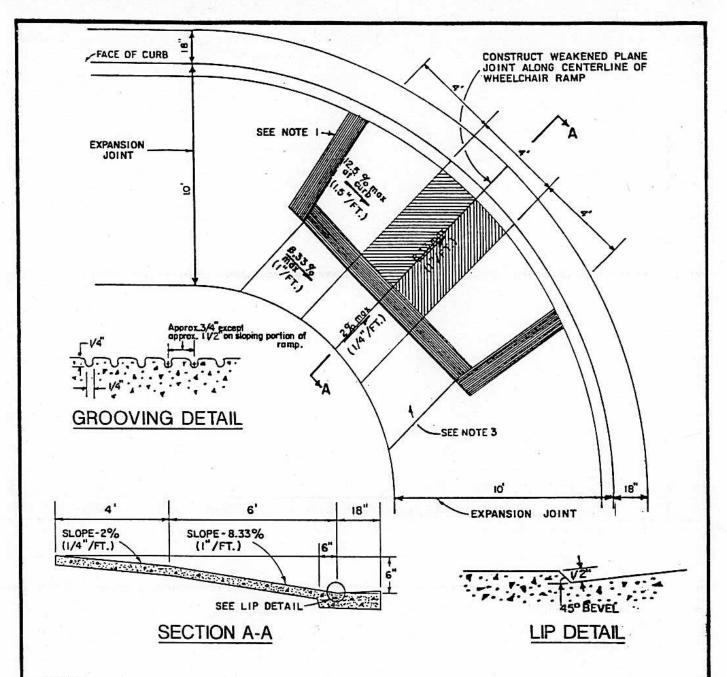
ST-11

SCALE: NONE
PRINTED ON DIEPO NO. 1000H CLEARPRINT



- 1. THE RAMP SHALL HAVE A 12" WIDE BORDER WITH 1/4" GROOVES APPROXIMATELY 3/4" ON CENTER (SEE GROOVING DETAIL). THE SURFACE OF THE RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.
- 2. WHEN RAMP IS LOCATED IN CENTER OF THE CURB RETURN, THE CENTER SECTION SHALL BE GROOVED IN A HERRINGBONE PATTERN WITH 1/4" GROOVES APPROXIMATELY 1-1/2" ON CENTER (SEE GROOVING DETAIL). GROOVES SHOULD BE ALIGNED PARALLEL TO CROSSWALK STRIPES TO DIRECT BLIND PEDESTRIANS INTO APPROPRIATE CROSSWALK. HERRINGBONE PATTERN SHALL NOT BE GROOVED INTO WHEELCHAIR RAMP UNLESS CROSSWALK STRIPES ARE IN PLACE.
- 3. WHEELCHAIR RAMP DETAILS FOR RECONSTRUCTION WORK SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT.

NO.	JAN. 1988	JK	WHEELCHAIR RAMP	mo Brinton		
DRAWN BY: D. MENDOZA		ZA	FOR 5' SIDEWALK	DIRECTOR OF PUBLIC WORKS		
CHECK	ED BY: J. PODE	CITY OF MANTECA		DRAWING NO. ST-12		
SCALE:	NONE		DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988		

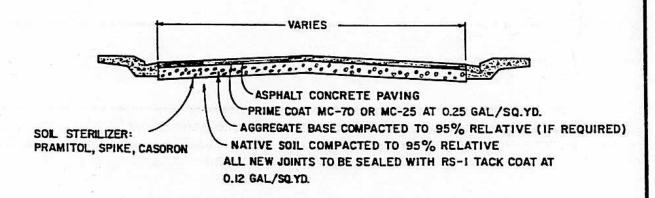


- 1. THE RAMP SHALL HAVE A 12" WIDE BORDER WITH 1/4" GROOVES APPROXIMATELY 3/4" ON CENTER (SEE GROOVING DETAIL). THE SURFACE OF THE RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.
- 2. WHEN RAMP IS LOCATED IN CENTER OF THE CURB RETURN, THE CENTER SECTION SHALL BE GROOVED IN A HERRINGBONE PATTERN WITH 1/4" GROOVES 1-1/2" ON CENTER (SEE GROOVING DETAIL). APPROXIMATELY GROOVES SHOULD BE ALIGNED PARALLEL TO CROSSWALK STRIPES TO DIRECT BLIND PEDESTRIANS INTO APPROPRIATE CROSSWALK. HERRINGBONE PATTERN SHALL NOT BE GROOVED INTO WHEELCHAIR RAMP UNLESS CROSSWALK STRIPES ARE IN PLACE.
- 3. TRANSISTION FROM RAMP TO SIDEWALK SHALL BE MADE IN 3 FEET.

NO.	REVISED	SY	WHEELCHAIR RAMP	APPROVED BY:		
1	JAN. 1988	JK		Morinton		
DRAW	N BY D. MENDO	ZA	FOR 10' SIDEWALK	DIRECTOR OF PUBLIC WORKS		
CHECKED BY: J. PODESTA		PODESTA CITY OF MANTECA		DRAWING NO. ST-13		
SCALE	NONE		DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988		

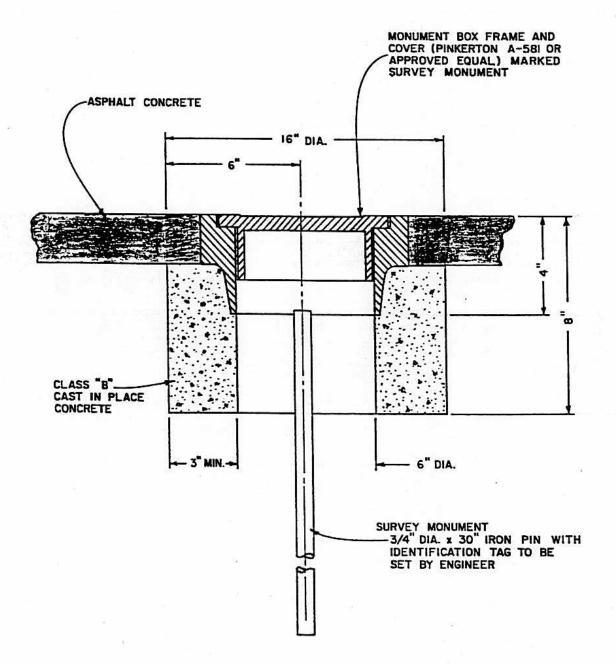
#### PAVEMENT DESIGN CHART

STREET NAME	TRAFFIC INDEX	SOIL R-VALUE	ADJUSTED R-VALUE	A.B. THICKNESS	A.C. THICKNESS	LIFT & THICKNESS
						NE SE
, I						
	, - 70					
						i)
					y =	
1100 - 570 Miles						



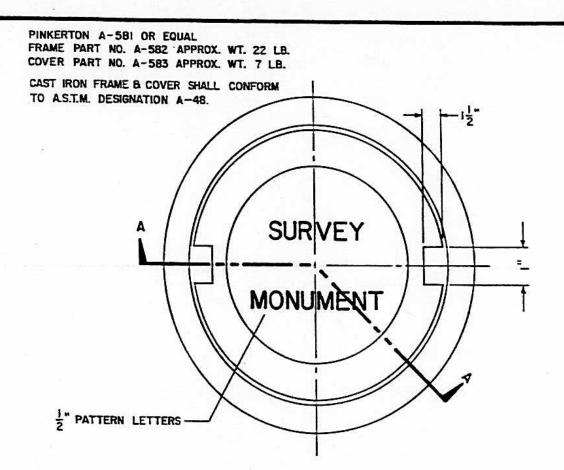
- L SOIL STERILIZER SHALL BE APPLIED WHEN ASPHALT CONCRETE PAVING IS PLACED DIRECTLY ON NATIVE MATERIAL ONLY.
- 2. PAVEMENT STRUCTURAL DESIGN SHALL BE BASED UPON "THE FLEXIBLE PAVEMENT STRUCTURAL SECTION DESIGN GUIDE FOR CALIFORNIA CITIES AND COUNTIES", AS MODIFIED IN CITY RESOLUTION NO. R5633.
- 3. CONSTRUCTION SHALL CONFORM WITH THE LATEST STANDARD SPECIFICATION
  OF THE STATE OF CALIFORNIA.
  ASPHALT CONCRETE SHALL BE TYPE"B"
  AGGREGATE BASE SHALL BE CLASS "2"
- 4. BASE SHALL BE WATERED AND COMPACTED PURSUANT TO STATE SPECIFICATIONS EXCEPT-95% TO 0.5 FEET BELOW FINISHED SUBGRADE-90% TO 2.5 FEET BELOW FINISHED SUBGRADE.
- 5. PRIME COAT SHALL BE APPLIED WHEN ASPHALT CONCRETE PAVING IS PLACED ON AGGREGATE BASE MATERIAL ONLY.

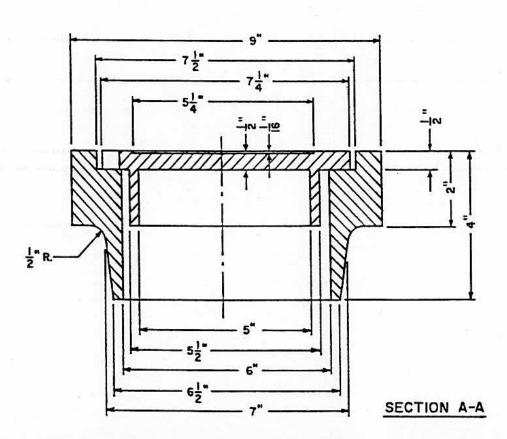
NO.	REVISED	37	PAVEMENT DESIGN CHART AND STREET CROSS SECTION	APPROVED AY: MEBrinton
DRAW	DRAWN BY: J. HULSEY		AND STREET CROSS SECTION	DIRECTOR OF PUBLIC WORKS
CHECK	ED BY: J. PODE	STA	CITY OF MANTECA	DRAWING NO. CT 4/
SCALE: NONE			DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988



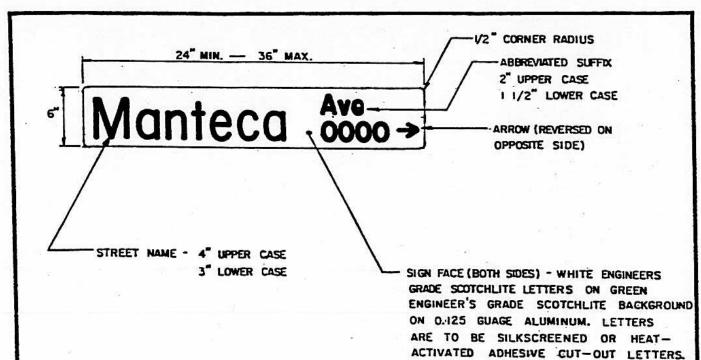
NOTE: MONUMENTS ARE TO BE SET AFTER STREETS HAVE BEEN PAVED.

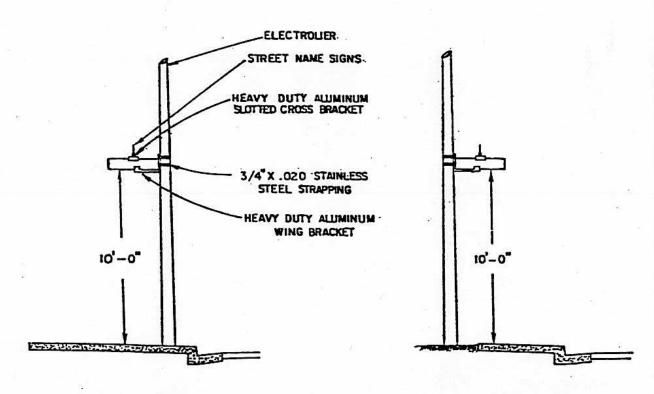
NO. REVISED		APPROVED BY: MBrinton	
DRAWN BY: B. CANTU		DIRECTOR OF PUBLIC WORKS	
CHECKED BY: J. PODESTA	CITY OF MANTECA	DRAWING NO. ST-15	
SCALE: NONE	DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988	





NO.	REVISED	BY	CTANDADD MONUMENT DOV	APPROVED BY:
DRAW	JAN. 1988	JK	STANDARD MONUMENT BOX FRAME AND COVER ASSEMBLY	Milbriaton  DIRECTOR OF PUBLIC WORKS
CHEC	CHECKED BY: J. PODESTA		CITY OF MANTECA	DRAWING NO. ST-16
SCALE: NONE		1.4	DEPARTMENT OF PUBLIC WORKS	DATE: JAN, 1988

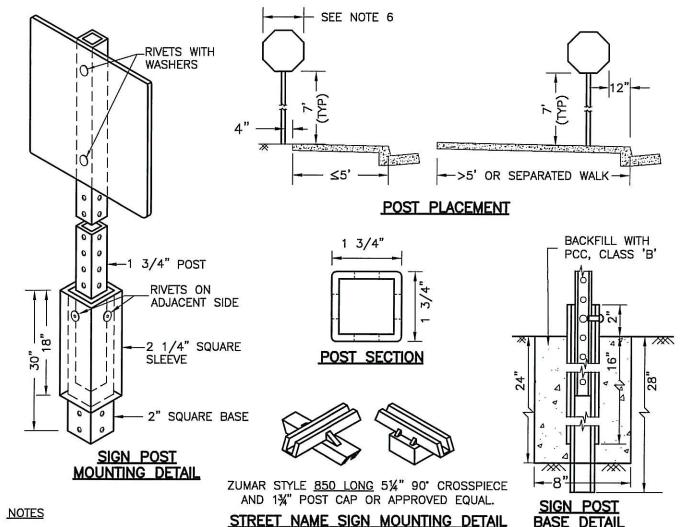




SIGN PLACEMENT
WITH POLE AT BACK OF CURB

SIGN PLACEMENT
WITH POLE AT BACK OF SIDEWALK

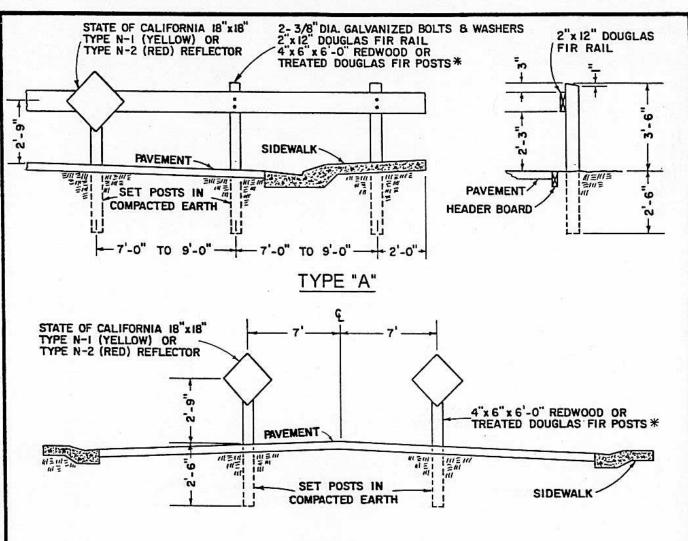
NO.	REVISED	BY	STREET SIGN INSTALLATION	APPROVED EX:	
DRAWN BY. J. HULSEY		Υ	ON ELECTROLIER	DIRECTOR OF PUBLIC WORKS	
CHECKED BY: J. PODESTA		STA	CITY OF MANTECA	DRAWING NO.	
SCALE: NONE			DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988	



#### 1. MATERIALS:

- <u>POST</u> 1 3/4" SQUARE WITH ROUNDED CORNERS, 14 GA. GALV. HIGH STRENGTH RAIL STEEL ASTM A715, GRADE 60. (TELESPAR PART # 16D12-PG OR APPROVED EQUAL.) GALVANIZED POST FINISH SHALL CONFORM TO ASTM A525 G90 COATING.
- POST BASE ANCHOR 30" LONG X 2" SQUARE 12 GA. GALV. STEEL (TELESPAR PART # 20F12A2.5 OR APPROVED EQUAL.)
- <u>POST BASE SLEEVE</u> 18" LONG X 2¼" SQUARE 12 GA. GALV. STEEL (TELESPAR PART # TEL—22F12—A OR APPROVED EQUAL.)
- <u>SIGN FACE</u> SHALL BE REFLECTIVE AND PLACED ON .080" MINIMUM THICKNESS ALUMINUM WITH 3M HIGH-INTENSITY GRADE PRISMATIC REFLECTIVE SHEETING SERIES 3930 OR APPROVED EQUAL.
- 2. STREET NAME SIGNS SHALL BE MOUNTED ON STREET LIGHT POLES IN CONFORMANCE WITH CITY STANDARD ST-18 WHEREVER POSSIBLE.
- 3. STREET NAME SIGN LOCATION SUBJECT TO CITY ENGINEER APPROVAL.
- 4. SIGN POLES SHALL BE SET PRIOR TO NEW SIDEWALK CONSTRUCTION.
- 5. SIGNS SHALL CONFORM TO CALTRANS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- 6. STOP SIGN DIMENSION:
- TWO (2) LANE ROADWAY: 30"X30" MIN.
- FOUR (4) LANES OR MORE: 36"X36" MIN.

DATE:	9-2-2009	TRAFFIC, PARKING, AND	APPROVED:
DRAWN BY:	J.R.	STREET NAME SIGNS	Much Houghbow
CHECKED BY:	м.м.		DIRECTOR OF PUBLIC WORKS
SCALE:	N.T.S.	CITY OF MANTECA PUBLIC WORKS DEPARTMENT	ST-19

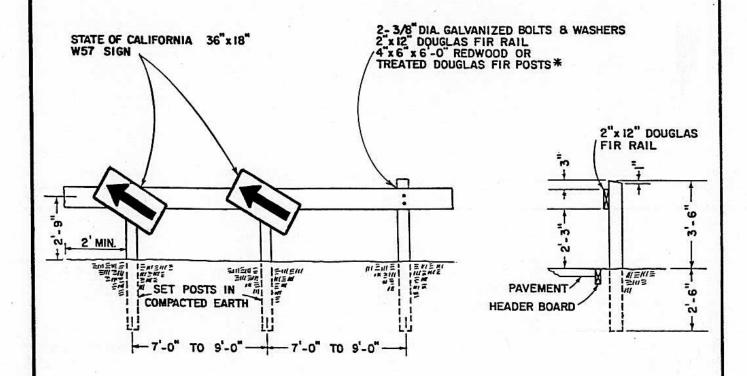


# TYPE "B"

\* STATE OF CALIFORNIA, SPECIFICATION 56-2.02B

- 1. TYPE "A" BARRICADES SHALL EXTEND FROM THE BACK OF SIDEWALK TO THE BACK OF SIDEWALK.
- 2. TYPE "A" BARRICADES SHALL BE USED WHERE STREETS ARE NOT TO BE EXTENDED FOR MORE THAN ONE YEAR OR AS DIRECTED BY THE DIRECTOR OF PUBLIC WORKS.
- 3. TYPE "B" BARRICADES SHALL BE USED WHERE STREETS ARE TO BE EXTENDED WITHIN A ONE YEAR PERIOD OR AS DIRECTED BY THE DIRECTOR OF PUBLIC WORKS.
- 4. TYPE N-2 REFLECTORS ARE TO BE NO USED AT DEAD-ENDS WHERE OUTLETS EXIST. TYPE N-1 REFLECTORS ARE TO BE USED AT ALL OTHER LOCATIONS. REFLECTORS BE FASTENED WITH 3/8" SHALL DIAMETER GALVANIZED BOLTS.
- 5. BARRICADES SHALL BE PAINTED YELLOW USING EXTERIOR HI-GLOSS ENAMEL OVER SUITABLE PRIMER.

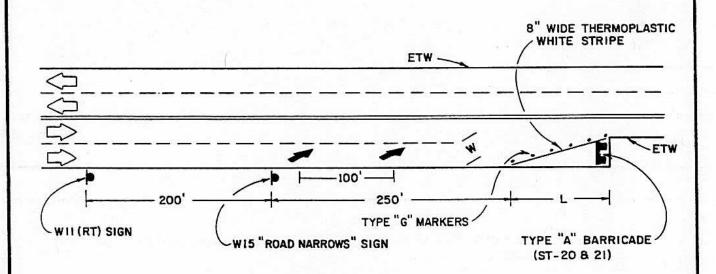
NO. REVISED BY		BARRICADE FOR		MBrinton	
DRAWN	DRAWN BY: J. KOESTER		JIODDED SIREE 13	DIRECTÓR OF PUBLIC WORKS	
CHECKED BY: J. PODESTA		ESTA	CITY OF MANTECA	DRAWING NO. ST-20	
SCALE: NONE			DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988 31-20	



\* STATE OF CALIFORNIA, SPECIFICATION 56-2.02B

- 1. ALTERNATE LOCATION OF TRANSITION BARRICADE SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- 2. BARRICADES TO BE PAINTED YELLOW USING EXTERIOR HI-GLOSS ENAMEL OVER SUITABLE PRIMER.
- 3. SEE STANDARD DRAWING ST-22 FOR BARRICADE PLACEMENT.

NO.	REVISED	<b>SY</b>	BARRICADE FOR	MABUNTON
DRAWN BY: J. KOESTER		TER	<b>ROADWAY TRANSITION</b>	DIRECTOR OF PUBLIC WORKS
CHECKED BY: J. PODESTA		ESTA	CITY OF MANTECA	DRAWING NO. ST-21
SCALE: NONE			DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988



# **LEGEND**

L = Lane reduction length (ft)

W = Offset distance (ft)

S = Off peak 85 percentile

speed (in 5 MPH).

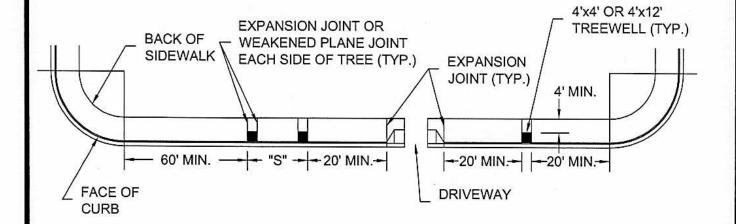
Direction of travel

Lane drop arrow

ETW= Edge of traveled way

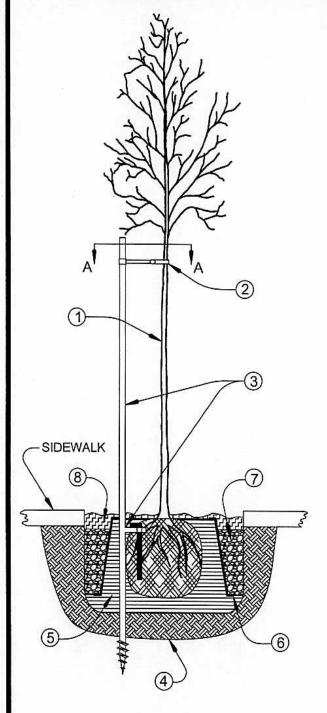
- 1. THE LENGTH OF TRANSITION (L) SHOULD BE COMPUTED BY FORMULA L = WS FOR ALL HIGHWAYS WITH SPEEDS OF 45 MPH OR MORE.
- 2. ON URBAN, RESIDENTIAL, AND OTHER STREETS WHERE SPEEDS ARE 40 MPH OR LESS, THE FORMULA L =  $WS^2/60$  MAY BE USED.
- 3. RAISED PAVEMENT MARKERS, TYPE G (CLEAR) IN SECTION 85-1.02 OF CALTRAN'S STANDARD SPECIFICATIONS, ARE TO BE USED AT A TWO INCH OFFSET TO THE THERMOPLASTIC STRIPE (ON THE TRAFFIC SIDE). MARKERS SHALL BE SET AT 24' ON CENTER.
- 4. A SECOND SET OF LANE DROP ARROWS MAY BE PLACED IN ADVANCE OF THE W11 SIGN. THE LANE DROP ARROWS ARE OPTIONAL ON HIGHWAYS WHERE SPEEDS ARE 40 MPH OR LESS.
- 5. A 100' MINIMUM DISTANCE MAY BE USED FOR LANE DROP ARROWS ON AN URBAN, RESIDENTIAL, OR OTHER STREET WHERE SPEEDS ARE 40 MPH OR LESS.

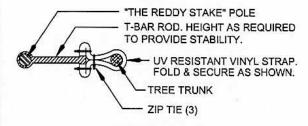
NO. RE	VISED	SY	LANE REDUCTION	Morinton	
DRAWN BY: J. KOESTER CHECKED BY: J. PODESTA SCALE: NONE		ER	TRANSITION	DIRECTOR OF PUBLIC WORKS	
		STA	CITY OF MANTECA	DRAWING NO. ST.22	
			DEPARTMENT OF PUBLIC WORKS	DATE:JAN. 1988	



- 1. "S" SPACING OF TREEWELLS SHALL BE EQUALLY DIVIDED THROUGHOUT THE BLOCK.
- 2. "S" SPACING SHALL BE 28 FEET MINIMUM AND 40 FEET MAXIMUM.
- SIZE OF TREE WELLS SHALL BE 4' x 4' ALONG STREETS WITH ON STREET PARKING AND 4' x 12'
  ALONG STREETS WITHOUT ON STREET PARKING.
- 4. ALL TREES SHALL BE PLACED A MINIMUM DISTANCE OF 8' FROM SEWER LATERALS AND WATER SERVICES AND 20' FROM STREET LIGHTS.
- 5. PROVIDE BUBBLER SPRINKLER HEAD(S) TO EACH TREE WELL FROM ADJACENT LANDSCAPE AREA OR WATER SOURCE. FOR BACK-UP FRONTAGES, THE LOCATION OF THE VALVE IS TO BE APPROVED BY THE CITY ENGINEER. SEE CITY STANDARD W-12A AND W-12B FOR IRRIGATION DETAILS.
- ALL NEW OR IMPROVED COMMERCIAL FRONTAGE SHALL HAVE TREE WELLS.

NO.	08/02/02	BY saf	STANDARD TREE	APPROVED BY:
DRAWN BY:	S.	FOX	WELL LOCATION	DIRECTOR OF PUBLIC WORKS
CHECKED BY:	J. POI	DESTA	CITY OF MANTECA	DRAWING NO. CT 33
SCALE:	NONE		DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988





SECTION A-A

#### NOTES:

 1. 15 GALLON TREE (VARIETY SPECIFIED BY THE PARKS AND RECREATION DEPARTMENT; ST-25) MINIMUM SIZE REQUIREMENTS: HEIGHT - 7 FEET

TRUNK CALIPER - 3/4 INCH DBH

- T-BAR ROD. HEIGHT AS REQUIRED TO PROVIDE STABILITY.
- "THE REDDY STAKE" SYSTEM (OR APPROVED EQUAL). WITH TAB AND ANTI-ROTATION PIN. INSTALL TAB 2-4" BELOW GRADE. TREE STAKE TO BE LOCATED ON PREVAILING WIND SIDE.
- 4. EXCAVATION TO BE 20 INCHES DEEP AND TO THE FULL WIDTH AND MINIMUM 4' LENGTH OF TREEWELL.
- 5. PLANTING SOIL SHALL BE NATIVE ONLY.
- 6. SET ROOT CONTROL BARRIER (DEEP ROOT CORP. # 22-29-18-P OR ROOT BOOSTER # F1-48-BOX) ON NATIVE SOIL SO THAT TOP OF BARRIER IS 2 INCHES BELOW TOP OF SIDEWALK. PLANT TREE IN BARRIER AND BACKFILL WITH NATIVE SOIL. TREE AND BARRIER SHALL BE CENTERED IN TREEWELL.
- FILL REMAINDER OF HOLE AROUND OUTSIDE OF BARRIER WITH 1-1/2" WASHED RIVER ROCK/DRAIN ROCK TO TOP OF BARRIER.
- INSTALL 3-1/2 " LAYER OF BARK MULCH (PROVIDED BY THE CITY - INSTALLED BY THE CONTRACTOR) IN TREEWELL TO 1/2 INCH BELOW TOP OF SIDEWALK.
- 9. DEVELOPER OR CONTRACTOR SHALL WATER
  THE TREE AT TIME OF PLANTING AND SHALL BE
  RESPONSIBLE FOR THE CARE OF THE TREE UNTIL
  ALL IMPROVEMENTS ARE ACCEPTED BY THE CITY.
- 10. TREES SHALL BE PLACED A MINIMUM OF 8'
  FROM SEWER LATERALS AND WATER SERVICES
  AND A MINIMUM OF 20' FROM STREET LIGHTS AND
  DRIVEWAYS.
- 11. IRRIGATION SYSTEM TO BE PROVIDED PER CITY STANDARDS DRAWING NO. W-12 ON BACK-UP LOT FRONTAGES. ON COMMERCIAL FRONTAGES, IRRIGATION SYSTEM TO BE CONNECTED TO ON-SITE AUTOMATIC IRRIGATION SYSTEM.

NO.	R	MSED BY
1	08/	02/02 saf
DRAW	N BY:	S. FOX
CHEC	KED BY:	J. PODESTA

NONE

SCALE:

ARTERIAL TREE WELL STREET TREE PLANTING

CITY OF MANTECA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:

Mulacy Division

DIRECTOR OF PUBLIC WORKS

DATE: AUG. 1992 ST — 24

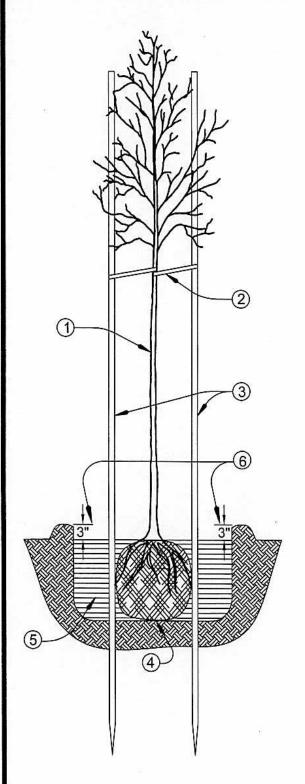
# CITY OF MANTECA APPROVED STREET TREE SPECIES

COMMON NAME	BOTANICAL NAME	~ HEIGHT
TRIDENT MAPLE	ACER BUERGERIANUM	25'
CREPE MYRTLE	LAGERSTROMIA INDICA	25'
SWAMP MYRTLE	TRISTANIA LAURINA "ELEGANT"	25'
FLOWERING CHERRY	PRUNUS SERRALATA "KWANSAN"	25'
FLOWERING CRABAPPLE	MALUS FLORIBUNDA	25'
RED LEAF PLUM	PRUNUS BLIREIANA	25'
GOLDEN RAIN TREE	KOELREUTERIA PANICALATA	35'
CHINESE FLAME TREE	KOELREUTERIA BIPINNATA	35'
CHINESE PISTACHE	PISTACHIA CHINENSIS	50'
HOLLY OAK	QUERCUS ILEX	50'
LITTLE LEAF LINDEN	TILIA CORDATA	50'
HACKBERRY	CELTIS AUSTRALIS	60'
EVERGREEN ELM	ULMUS PARIFOLIA SEMPERVIRENS	60'
JAPANESE ZELKOVA	ZELKOVA SERRATA	70'
DEODAR CEDAR	CEDRUS DEODARA	80'
GINKGO	GINKGO BILOBA	80'
TULIP TREE	LIRIODENDRON TULIPIFERA	80'

# CITY OF MANTECA PROHIBITED STREET TREE SPECIES

COMMON NAME	BOTANICAL NAME
AMERICAN ELM	ULMUS AMERICANA
EUCALYPTUS	ALL EUCALYPTUS SPECIES
MODESTO ASH	ALL FRAXINUS SPECIES
MULBERRY	ALL MORUS SPECIES
RAYWOOD ASH	ALL FRAXINUS SPECIES
ORNAMENTAL PEAR	ALL PYRUS SPECIES
PALM	ALL PALM SPECIES
POPLAR	ALL POPULUS SPECIES
WILLOW	ALL SALIX SPECIES

NO.	08/02/02	BY saf	STREET TREES	DIRECTOR OF PUBLIC WORKS
DRAWN	BY: S.	S. FOX		
CHECKE	BY: J. POD	DESTA	CITY OF MANTECA	DRAWING NO. ST-25
SCALE:	NONE		DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988 .



- 15 GALLON TREE (VARIETY SPECIFIED BY THE PARKS AND RECREATION DEPARTMENT; SEE ST-25) MINIMUM SIZE REQUIREMENTS:
  - (A) HEIGHT 7 FEET
  - (B) TRUNK CALIPER 3/4 INCH DBH
  - (C) PLANTING SITE LOCATION TO BE DETERMINED AND MARKED BY THE CITY URBAN FORESTRY DIVISION.
- 2. 1" VINYL TREE TAPE STRAPPING.
- TREE STAKES: TWO 2"X2"X8' REDWOOD OR 2" DIAMETER X 8' TREATED LODGEPOLE DRIVEN A MINIMUM OF 2 FEET INTO THE GROUND AND AT THE OUTSIDE EDGE OF THE ROOTBALL.
- EXCAVATION TO BE TWICE AS WIDE AS ROOTBALL.
- 5. PLANTING SOIL SHALL BE NATIVE ONLY.
- WATER BASIN 3" HIGH BERM ENCIRCLING THE ROOTBALL PERIMETER.
- DEVELOPER OR CONTRACTOR SHALL WATER THE TREE AT TIME OF PLANTING AND SHALL BE RESPONSIBLE FOR CARE OF THE TREE UNTIL ALL IMPROVEMENTS ARE ACCEPTED BY THE CITY.
- 8. TREES SHALL BE PLACED A MINIMUM OF 8 FEET FROM SEWER LATERALS, WATER SERVICES AND ALL OTHER UNDERGROUND UTILITIES. A MINIMUM OF 3 FEET FROM SIDEWALKS AND A MINIMUM OF 20 FEET FROM DRIVEWAYS.
- 9. TREES SHALL BE LOCATED WITHIN THE "STREET TREE AREA", BUT NO CLOSER THAN 3 FEET FROM THE BACK OF SIDEWALK. PER MMC, CHAPTER 12.08, THE "STREET TREE AREA" IS THE AREA BETWEEN PUBLIC STREET RIGHT-OF-WAY LINES PLUS 5 FEET EACH SIDE THEREOF. CITY URBAN FORESTRY DIVISION STAFF WILL DETERMINE THE EXACT LATERAL PLACEMENT OF RESIDENTIAL STREET TREES BY MARKING CURB AREA IN DIRECT RELATION TO SITE. (TREES THAT ARE PLACED OUTSIDE OF THE "CITY RIGHT-OF-WAY" WILL NOT BE MAINTAINED BY CITY URBAN FORESTRY CREWS.)

_			
NO.	RE	EVISED	BY
1	08/	02/02 s	af
DRAW	N BY:	S. FOX	
CHEC	KED BY:	J. PODEST	Α

NONE

SCALE:

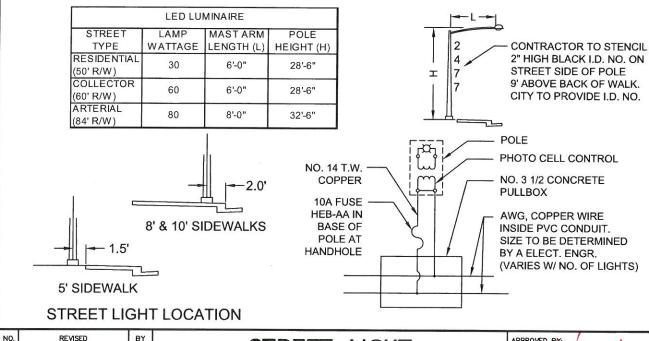
RESIDENTIAL STREET TREE PLANTING

CITY OF MANTECA
DEPARTMENT OF PUBLIC WORKS

DIRECTOR OF PUBLIC WORKS

DATE: FEB. 2002 ST-26

- STREET LIGHTS SHALL BE PLACED AT ALL INTERSECTING STREETS, AT THE END OF CUL-DE-SACS, AND EVENLY SPACED, SPACING DEPENDING ON BLOCK LENGTHS, WITH 240 FEET MAXIMUM BETWEEN LIGHTS OR AS DIRECTED BY THE CITY ENGINEER.
- LUMINAIRE DISTRIBUTION PATTERN SHALL BE BASED ON THE ILLUMINATING ENGINEERING SOCIETY (I.E.S.)
  CODE FOR STREET AND HIGHWAY LIGHTING.
- LUMINAIRE SHALL BE A MINIMUM OF 30 WATT, UNLESS OTHERWISE SPECIFIED BY THE CITY ENGINEER.
- 4. LUMINAIRE OPERATING VOLTAGE SHALL BE 120 VOLTS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- 5. LUMINAIRE SHALL BE LIGHT EMITTING DIODE (LED) WITH 120/240 DUAL VOLTAGE BUILT IN BALLAST REACTOR TYPE, AND INDIVIDUAL PHOTOCELL CONTROL TYPE III.
- 6. LUMINAIRE SHALL HAVE CORRELATED COLOR TEMPERATURE (CCT) OF 4000° K (+/- 300° K); LUMINAIRE COLOR RENDERING INDEX (CRI) SHALL BE A MINIMUM OF 70; LUMINAIRE AND POWER SUPPLY SHALL OPERATE NORMALLY BETWEEN -20 DEG C TO 50 DEG C AMBIENT. LUMINAIRE COOLING SYSTEM SHALL CONSIST OF A HEAT SINK WITH NO FANS, PUMPS, OR LIQUIDS, AND SHALL BE RESISTANT TO DEBRIS BUILDUP THAT DOES NOT DEGRADE HEAT DISSIPATION PERFORMANCE. LUMINAIRE POWER SUPPLY SHALL HAVE A CLASS A SOUND RATING PER ANSI STANDARD C63.4, AND MAXIMUM DRIVER CURRENT SHALL NOT EXCEED 700 mA.
- WIRING MAY BE OVERHEAD TO POLE IN REAR OF PROPERTY, THRU A SIDE YARD EASEMENT, WHERE PRIOR APPROVAL IS OBTAINED FROM THE CITY ENGINEER.
- 8. POLES SHALL BE GALVANIZED STEEL TAPERED TUBE OR ALUMINUM EQUAL.
- 9. FOUNDATIONS SHALL BE CAST IN PLACE OR EMBEDDED.
- CONDUIT TO BE USED SHALL BE RIGID METAL OR SCHEDULE 40 PVC AND SHALL BE BURIED TO THE FOLLOWING DEPTH.
  - A. WITHIN SIDEWALK OR PARKWAY AREAS: 2'-0" MIN.
  - B. WITHIN ROADWAY AREAS: 3'-0" MIN.
- 11. THE UNDERGROUND CONDUIT AND ALL METAL PARTS SHALL BE CONTINUOUSLY BONDED AND GROUNDED.
- MINIMUM RADIUS OF BENDS SHALL BE 18". ALL BENDS AND/OR OFFSETS SHALL BE MADE WITH FACTORY SECTIONS.
- 13. ALL SPLICES TO BE APPROVED SOLDERLESS WATERPROOF CONNECTORS OF PROPER SIZE
- 14. ALL EMPTY CONDUITS SHALL BE CAPPED AND A 1/4" NYLON PULL ROPE PROVIDED INSIDE.
- 15. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, A NO. 3-1/2 PULL BOX (STATE STD. ES-8) SHALL BE INSTALLED AT ALL STREET LIGHT STANDARDS. PULL BOXES SHALL NOT BE MORE THAN 250' APART ON LONG RUNS. COVERS SHALL BE INSCRIBED "STREET LIGHTING". UPON COMPLETION OF TESTING OF LIGHTS, ALL PULL BOXES SHALL HAVE A LAYER OF VISQUEEN PLACED OVER WIRES AND FILLED WITH LEAN CONCRETE TO JUST BELOW COVER TO PREVENT WIRE THEFT.
- 16. WATERPROOF FUSED SPLICED CONNECTORS SHALL BE INSTALLED IN THE BASE OF EACH LIGHT STANDARD AT THE HANDHOLE.



NO.	REVI	SED	BY	
3	3 JAN. 2014			
DRAW	N BY:	A MIJANO	<b>SO</b>	
CHEC	KED BY:	P. GOV	√EΑ	
SCAL	Ē.	NONE		

# STREET LIGHT REQUIREMENTS

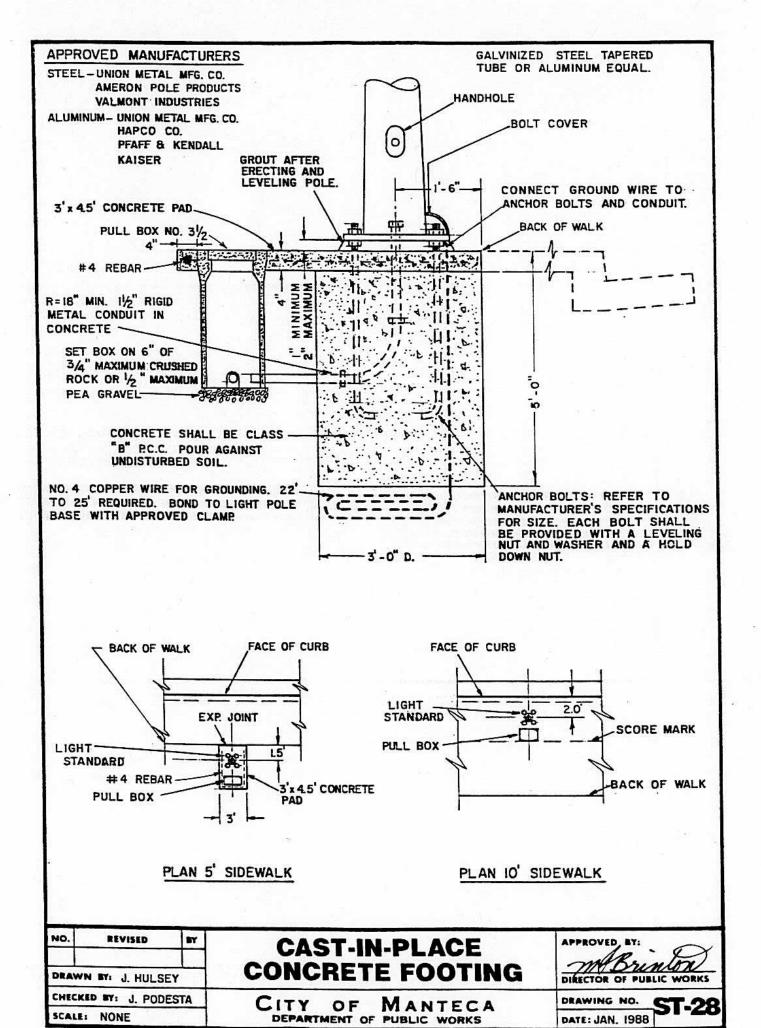
CITY OF MANTECA
DEPARTMENT OF PUBLIC WORKS

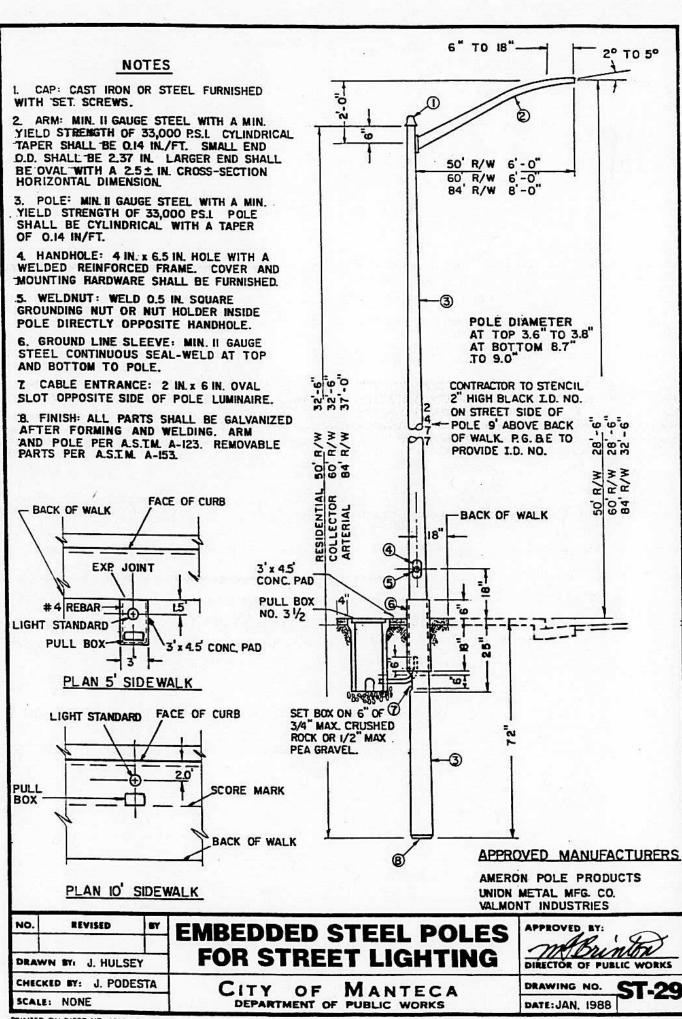
APPROVED BY:

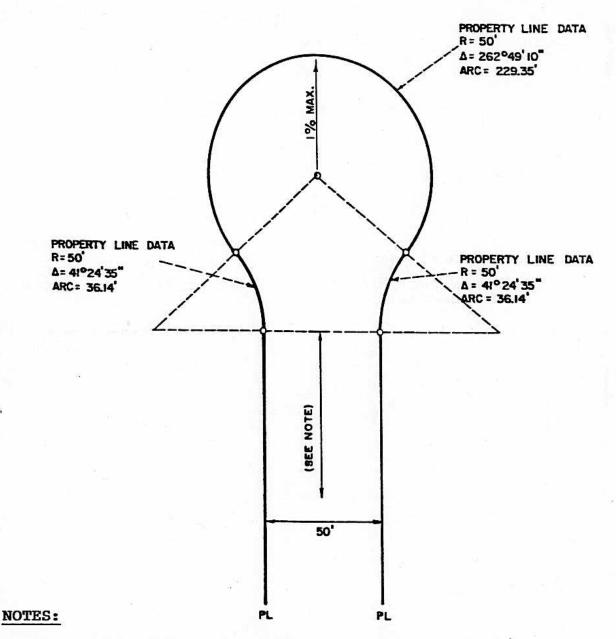
Man Houghton

DIRECTOR OF PUBLIC WORKS

DATE: JAN. 2014

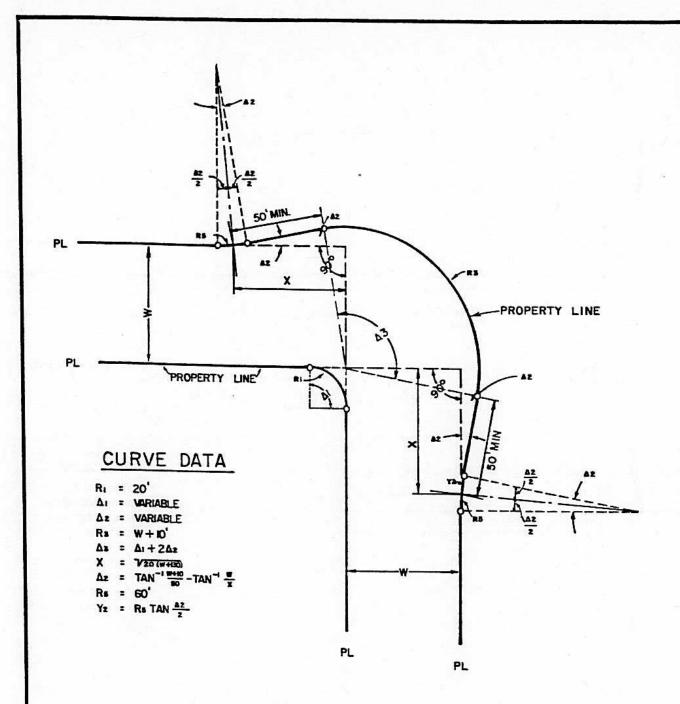






- 1. CUL-DE-SACS SHALL NOT BE MORE THAN 600 FEET NOR LESS THAN 150 FEET IN LENGTH, EXCEPT WHERE SPECIAL CIRCUMSTANCES OF DESIGN ARE APPARENT AND SHALL TERMINATE WITH A TURN-AROUND WITH A RADIUS OF NOT LESS THAN FIFTY FEET (50'). FACE OF CURB RADIUS IS 43 FEET.
- 2. BULB MAY BE OFFSET TO EITHER SIDE.
- 3. GUTTER SLOPE AROUND CUL-DE-SAC SHALL BE 0.0025 FT./FT. MINIMUM.
- 4. 1% MAXIMUM SLOPE AT BACK OF CUL-DE-SAC (IF HIGH POINT IS AT BACK).

NO.	REVISED	EY		APPROVED BY:
1	JAN. 1988	JK	STANDARD CUL-DE-SAC	m Brinton
DRAW	N BY: D. KIRKN	MAN		DIRECTOR OF PUBLIC WORKS
CHECK	CED BY: J. POD	ESTA	CITY OF MANTECA	DRAWING NO. CT_30
SCALE	: NONE		DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988



W	X	Δ2
50	60'	10° 23' 20"
60'	61.64	10° 14' 11"

1. INTERSECTION BULBS ARE NOT REQUIRED ON STREETS WITH A CENTERLINE RADIUS OF 200' OR MORE.

NO.	JAN. 1988	JK	ALIGNMENT FOR 90°	APPROVED BY:
DRAW	N MY: D. KIRKN	IAN	STREET INTERSECTIONS	DIRECTOR OF PUBLIC WORKS
CHECK	ED BY: J. PODE	STA	CITY OF MANTECA	DRAWING NO. CT 24
SCALE	: NONE		DEPARTMENT OF PUBLIC WORKS	DATE: JAN. 1988

- 1. THE MINIMUM HEIGHT OF THE SOUND AND SAFETY/SOUND BARRIER WALL SHALL BE EIGHT (8) FEET MEASURED FROM THE ROADWAY ELEVATION AT THE CENTERLINE OF THE NEAREST TRAVEL LANE, OR FROM THE CENTERLINE OF THE NEAREST FUTURE TRAVEL LANE. THIS STANDARD SHALL ACHIEVE AN ACCEPTABLE OUTDOOR RESIDENTIAL Ldn (DAY-NIGHT WEIGHTED AVERAGE NOISE LEVEL) VALUE OF 65 dB (DECIBELS) OR LESS, AND AN INDOOR RESIDENTIAL Ldn VALUE OF 45 dB OR LESS, IN ANY HABITABLE ROOM WITH THE WINDOWS CLOSED.
- 2. THE DEVELOPER SHALL SUBMIT TO THE PLANNING DEPARTMENT AN ACOUSTICS ENGINEER'S REPORT INDICATING SOUND ATTENUATION VALUES AND SOUND BARRIER DESIGN, FOR EVALUATION DURING THE FINAL MAP REVIEW PROCESS. IF REQUIRED BY THE CITY, A SAFETY/SOUND BARRIER WALL DESIGN SHALL BE SUBSTITUTED FOR THE SOUND BARRIER DESIGN. THE CONSTRUCTION OF THE BARRIER WALL SHALL BE INCORPORATED WITH CONSTRUCTION OF THE SUBDIVISION IMPROVEMENTS. IF APPROVED BY THE CITY, ADJACENT PROJECTS MAY UTILIZE THE SAME REPORT AND DESIGN.
- 3. THE SOUND BARRIER AND THE TOP PORTION OF THE SAFETY/SOUND BARRIER WALL SHALL BE CONSTRUCTED OF SOLID NONPOROUS MATERIAL WITH A MASS VALUE OF AT LEAST FOUR (4) POUNDS PER SQUARE FOOT. ALL JOINTS SHALL BE SEALED TO PREVENT THE PASSAGE OF SOUND WAVES.
- 4. THE SOUND BARRIER AND THE TOP PORTION OF THE SAFETY/SOUND BARRIER WALL SHALL BE CONSTRUCTED OF EITHER CONCRETE PANEL-LOCK, BRICK, CONCRETE BLOCK OR PREFAB TILT-UP.
- 5. EMERGENCY ACCESS PANELS SHALL BE INSTALLED IN ACCORDANCE WITH CALIFORNIA DEPARTMENT OF TRANSPORTATION REQUIREMENTS.
- 6. THE OVERALL HEIGHT OF THE BARRIER WALL MAY BE ACHIEVED IN COMBINATION WITH AN EARTH BERM (SUBJECT TO APPROVAL BY THE CITY).
- 7. RESIDENTIAL LOTS ADJACENT TO THE NOISE GENERATING SOURCE SHALL HAVE A REAR YARD SETBACK OF 30 FEET.
- 8. DESIGN DETAILS, SIGNED AND STAMPED BY A REGISTERED CIVIL ENGINEER AND A MANUFACTURE'S DESCRIPTION OF THE PROPOSED WALL, SHALL BE MADE PART OF THE SUBDIVISION IMPROVEMENT PLANS AND SUBMITTED PRIOR TO APPROVAL OF THE FINAL MAP. DESIGN OF THE SAFETY/SOUND BARRIER WALL SHALL BE APPROVED BY THE ENGINEER.

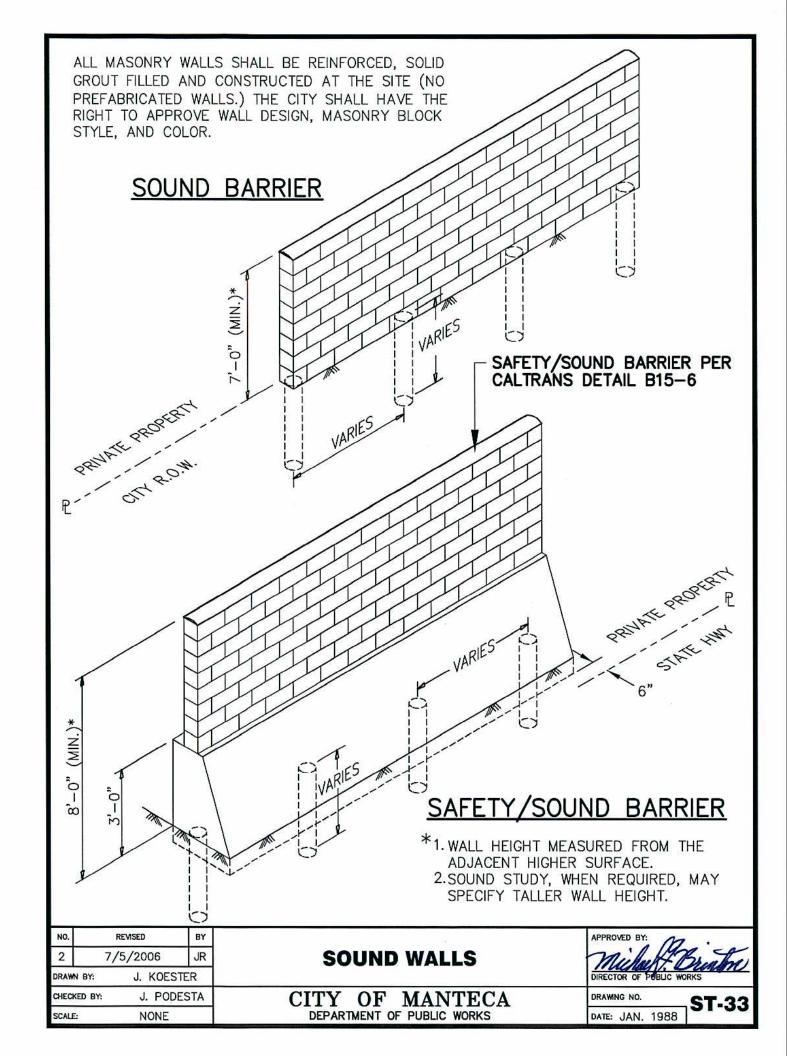
NO.	REVISED	87
DRAY	VN BY: J. KOES	TER
CHEC	KED BY: J. POD	ESTA
	Neve	1.45

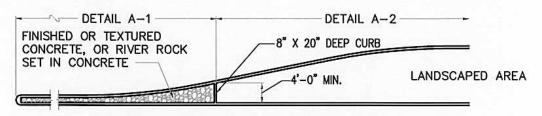
# SOUND WALL DESIGN CRITERIA

CITY OF MANTECA

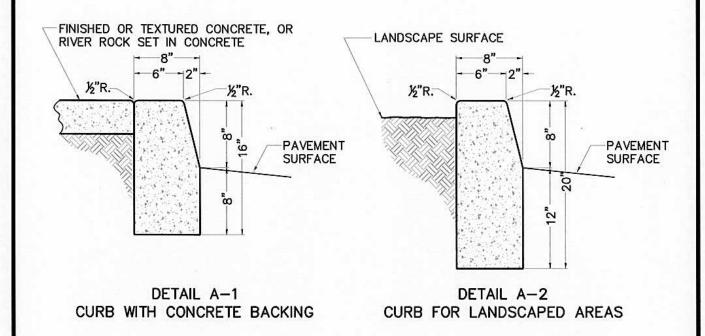
MELAN DIRECTOR OF PUBLIC WORKS

DRAWING NO.





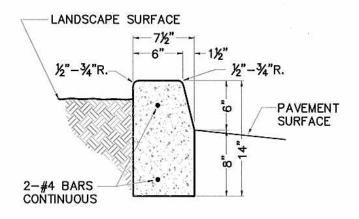
### RAISED CONCRETE TRAFFIC MEDIAN



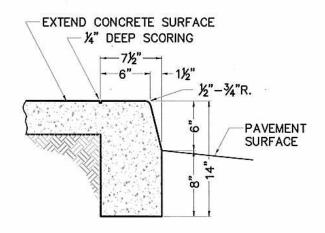
# <u>NOTES</u>:

- 1. EXPANSION JOINTS MATERIAL SHALL BE ½" EXPANSION PAPER PLACED ¼" BELOW GRADE MAXIMUM 32'-0" ON CENTER AND AT RADIUS RETURNS.
- 2. WEAKENED PLANE JOINTS 1/4" WIDE X 1/4" DEEP SHALL BE PLACED MIDWAY BETWEEN EXPANSION JOINTS, 32'-0" MAXIMUM ON CENTER.
- 3. REFER TO CITY STANDARD SPECIFICATION SECTION 73, "CONCRETE CURBS AND SIDEWALKS".

NO.	REVISED BY	TRAFFIC MEDIAN CURBS	Michael Brinton
DRAWN BY:	J. HULSEY		DIRECTOR OF PUBLIC WORKS
CHECKED BY:	J. PODESTA	CITY OF MANTECA	DRAWING NO.
SCALE:	NOT TO SCALE	DEPARTMENT OF PUBLIC WORKS	DATE: NOV. 2004



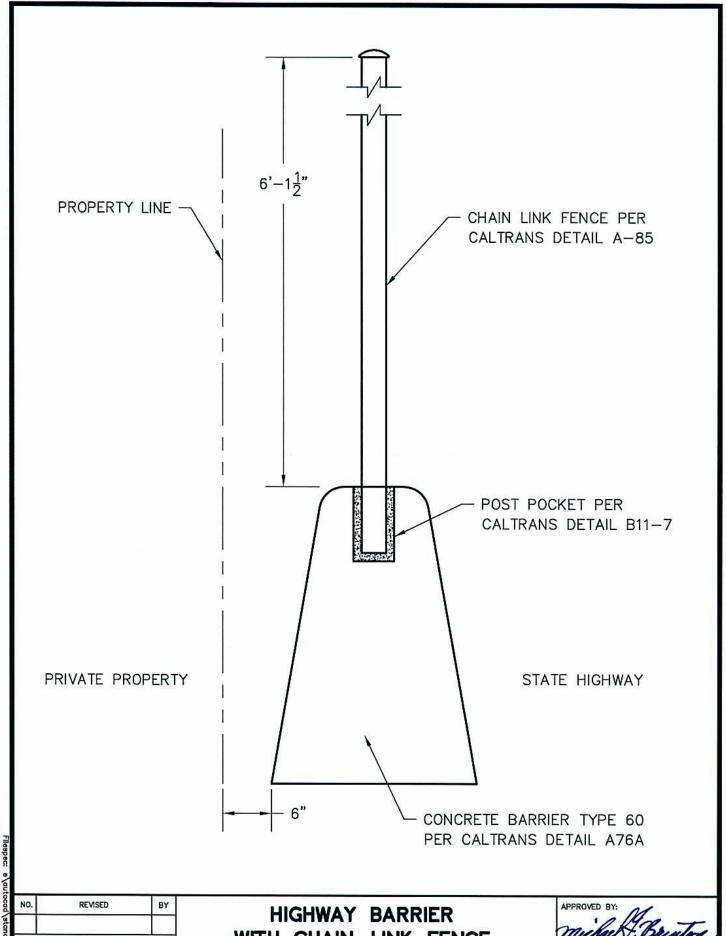
DETAIL 1
CURB FOR LANDSCAPED AREAS



DETAIL 2
CURB WITH CONCRETE BACKING

- 1. EXPANSION JOINTS MATERIAL SHALL BE 1/2" EXPANSION PAPER PLACED 1/4" BELOW GRADE MAXIMUM 32'-0" ON CENTER AND AT RADIUS RETURNS.
- 2. WEAKENED PLANE JOINTS 1/4" WIDE X 1/4" DEEP SHALL BE PLACED MIDWAY BETWEEN EXPANSION JOINTS, 32'-0" MAXIMUM ON CENTER.
- 3. REFER TO CITY STANDARD SPECIFICATION SECTION 73, "CONCRETE CURBS AND SIDEWALKS".

NO.	REVISED BY	PARKING AREA CURBS	Michael & Brintin
DRAWN BY:	J. HULSE		DIRECTOR OF PUBLIC WORKS
CHECKED BY:	J. PODESTA	CITY OF MANTECA	DRAWING NO.
SCALE:	NOT TO SCAL	DEPARTMENT OF PUBLIC WORKS	DATE: NOV. 2004



DRAWN BY: CHECKED BY: SCALE:

J. ROSS

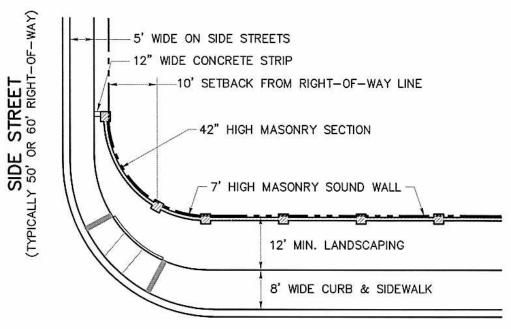
F. CLARK

NONE

WITH CHAIN-LINK FENCE

DEPARTMENT OF PUBLIC WORKS

DRAWING NO. DATE: JUN. 2006



STREET RIGHT-OF-WAY LINE

7' HIGH DECORATIVE MASONRY SOUND WALL

12' WIDE MINIMUM LANDSCAPING

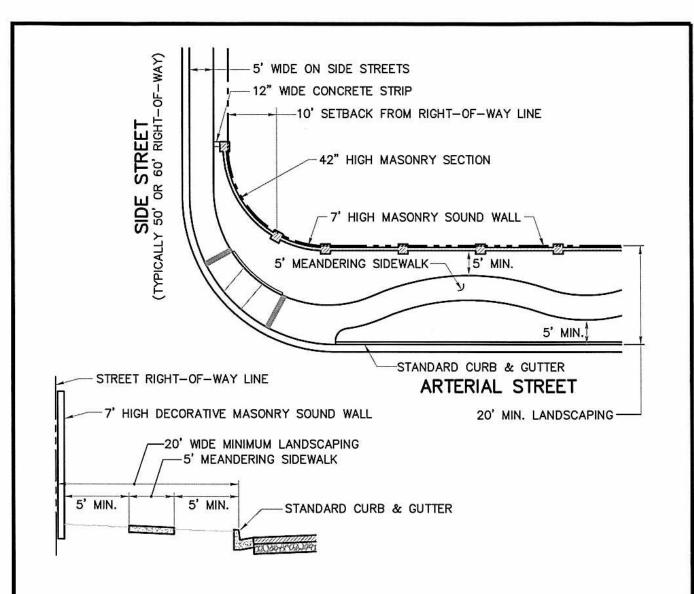
8' CURB & SIDEWALK

ARTERIAL STREET

- THE ARTERIAL MASONRY SOUND WALL SHALL BE A MINIMUM SEVEN FEET HIGH, MEASURED FROM THE HIGH GROUND SIDE OF THE WALL.
- THE 7-FOOT HIGH MASONRY SOUND WALL SHALL TERMINATE TEN FEET BACK FROM THE PROJECTED SIDE STREET RIGHT-OF-WAY LINE. A 42-INCH HIGH MASONRY WALL SHALL CONTINUE TO THE RADIUS RETURN OF THE SIDE STREET.
- THE TOP OF THE MASONRY SOUND WALL SHALL BE FINISHED WITH A COORDINATING DECORATIVE CAP.
- 4. CHANGES IN THE MASONRY SOUND WALL DESIGN MAY ONLY OCCUR AT AN INTERSECTION WITH ANOTHER ARTERIAL STREET, AN EXPRESSWAY OR HIGHWAY, UNLESS OTHERWISE APPROVED BY THE COMMUNITY DEVELOPMENT DEPARTMENT DIRECTOR.
- THE FIRST DEVELOPMENT TO INCLUDE CONSTRUCTION OF THE MASONRY SOUND WALL AND ARTERIAL STREETSCAPE SHALL "SET" THE DESIGN THEME TO BE MAINTAINED ALONG THE ARTERIAL STREET UNTIL ALTERED AT AN ALLOWED ROADWAY INTERSECTION.
- ARTERIAL STREET UNTIL ALTERED AT AN ALLOWED ROADWAY INTERSECTION.

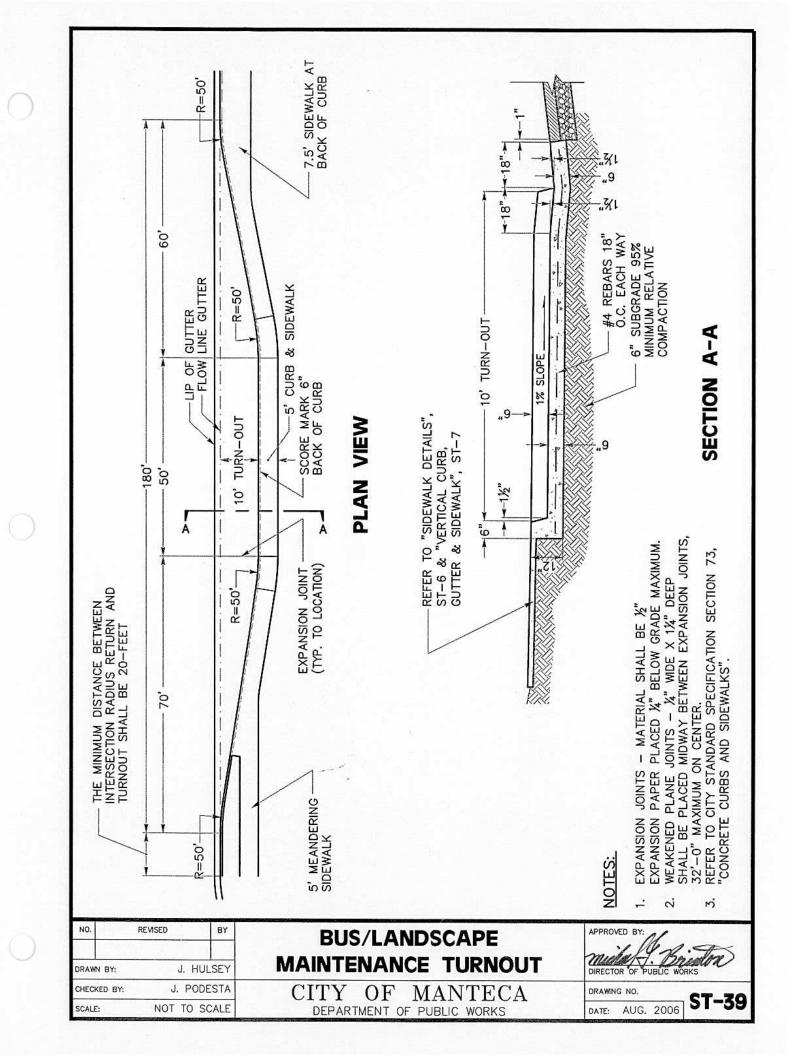
  6. THE STREETSCAPE ALONG THE WALL SHALL CONTINUE AROUND THE RADIUS RETURN AND TERMINATE WITH A 12-INCH WIDE CONCRETE CURB LEVEL WITH AND PERPENDICULAR TO THE SIDEWALK.
- 7. THE LANDSCAPE PLAN AND IRRIGATION SYSTEM SHALL BE APPROVED BY PARKS AND RECREATION AND COMMUNITY DEVELOPMENT DEPARTMENT DIRECTORS.
- 8. THE SAME ARTERIAL STREETSCAPE AND WALL DESIGN THEME SHALL EXTEND ALONG THE FRONTAGE OF A FORMAL STREET ENTRANCE INTO A NEIGHBORHOOD DEVELOPMENT OR COMMUNITY WHERE RESIDENTIAL REVERSE FRONTAGE LOTS ARE UTILIZED.

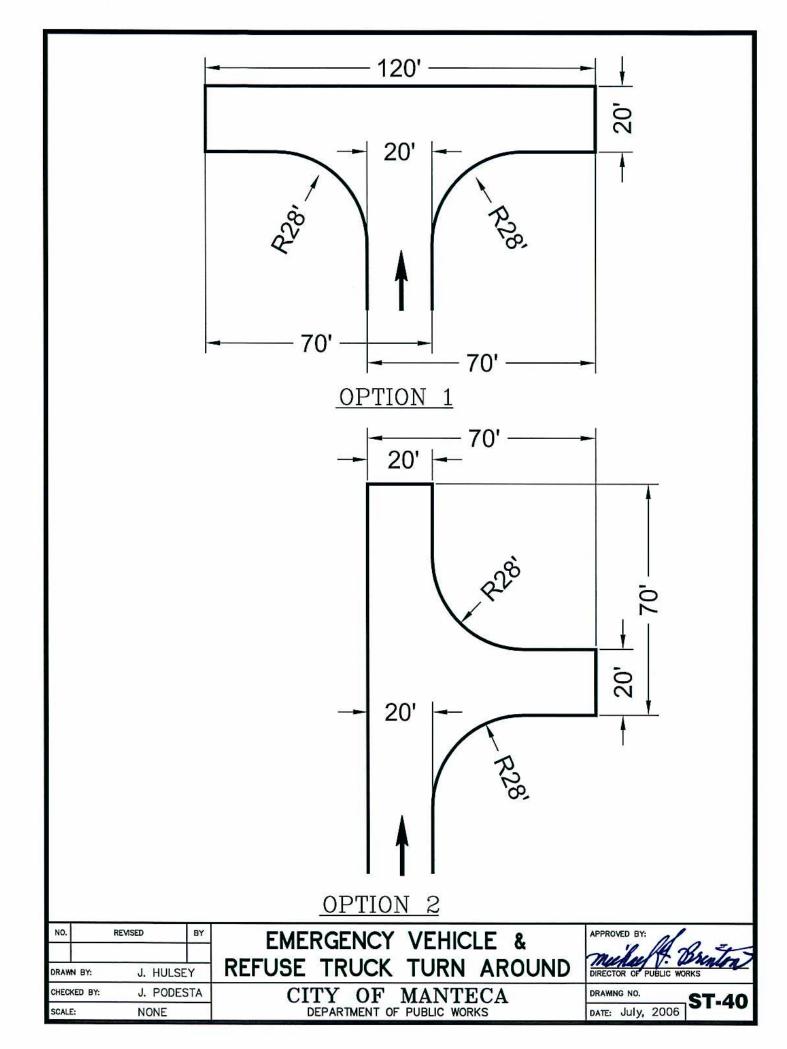
NO.	REVISED BY	ARTERIAL STREETSCAPE CRITERIA "A"	Mula & Briston	
DRAWN BY: J. HULSEY		OKITEKIA A	DIRECTOR OF PUBLIC WORKS	
CHECKED BY:	K. KOLLAR	CITY OF MANTECA	DRAWING NO.	
SCALE:	NOT TO SCALE	DEPARTMENT OF PUBLIC WORKS	DATE: AUG., 2004	

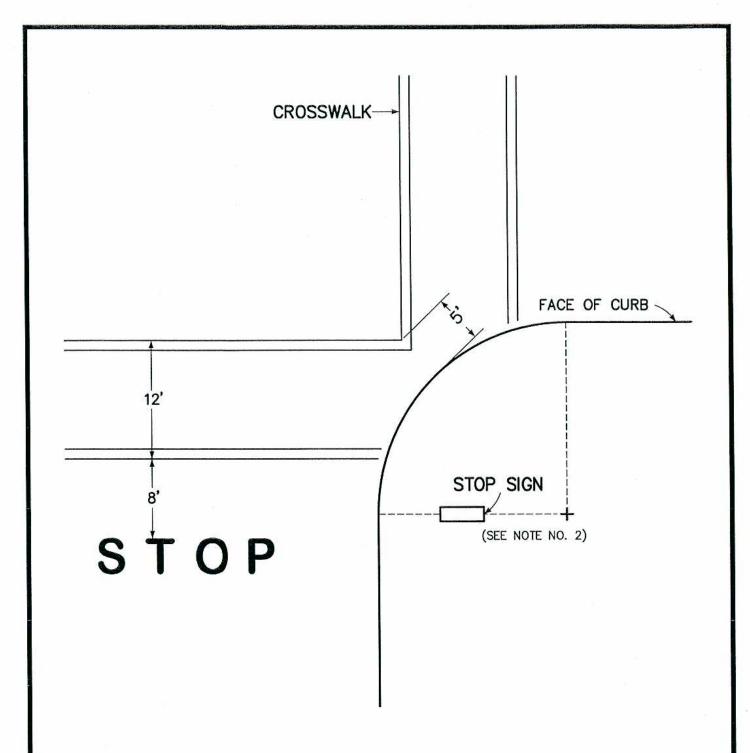


- THE ARTERIAL MASONRY SOUND WALL SHALL BE A MINIMUM SEVEN FEET HIGH, MEASURED FROM THE HIGH GROUND SIDE OF THE WALL.
- THE 7-FOOT HIGH MASONRY SOUND WALL SHALL TERMINATE TEN FEET BACK FROM THE PROJECTED SIDE STREET RIGHT-OF-WAY LINE. A 42-INCH HIGH MASONRY WALL SHALL CONTINUE TO THE RADIUS RETURN OF THE SIDE STREET.
- THE TOP OF THE MASONRY SOUND WALL SHALL BE FINISHED WITH A COORDINATING DECORATIVE CAP.
- 4. CHANGES IN THE MASONRY SOUND WALL DESIGN MAY ONLY OCCUR AT AN INTERSECTION WITH ANOTHER ARTERIAL STREET, AN EXPRESSWAY OR HIGHWAY, UNLESS OTHERWISE APPROVED BY THE COMMUNITY DEVELOPMENT DEPARTMENT DIRECTOR.
- THE FIRST DEVELOPMENT TO INCLUDE CONSTRUCTION OF THE MASONRY SOUND WALL AND ARTERIAL STREETSCAPE SHALL "SET" THE DESIGN THEME TO BE MAINTAINED ALONG THE ARTERIAL STREET UNTIL ALTERED AT AN ALLOWED ROADWAY INTERSECTION.
- THE STREETSCAPE ALONG THE WALL SHALL CONTINUE AROUND THE RADIUS RETURN AND TERMINATE WITH A 12-INCH WIDE CONCRETE CURB LEVEL WITH AND PERPENDICULAR TO THE SIDEWALK.
- THE LANDSCAPE PLAN AND IRRIGATION SYSTEM SHALL BE APPROVED BY PARKS AND RECREATION AND COMMUNITY DEVELOPMENT DEPARTMENT DIRECTORS.
- 8. THE SAME ARTERIAL STREETSCAPE AND WALL DESIGN THEME SHALL EXTEND ALONG THE FRONTAGE OF A FORMAL STREET ENTRANCE INTO A NEIGHBORHOOD DEVELOPMENT OR COMMUNITY WHERE RESIDENTIAL REVERSE FRONTAGE LOTS ARE UTILIZED.

NO.	REVISED BY	ARTERIAL STREETSCAPE CRITERIA "B"	michal & Briston	
DRAWN BY:	J. HULSEY	OKITEKIA D	DIRECTOR OF PUBLIC WORKS	
CHECKED BY	K. KOLLAR	CITY OF MANTECA	DRAWING NO.	
SCALE:	NOT TO SCALE	DEPARTMENT OF PUBLIC WORKS	DATE: AUG., 2004	

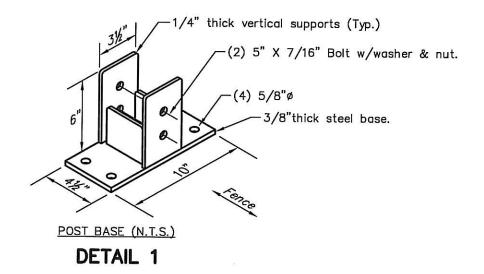


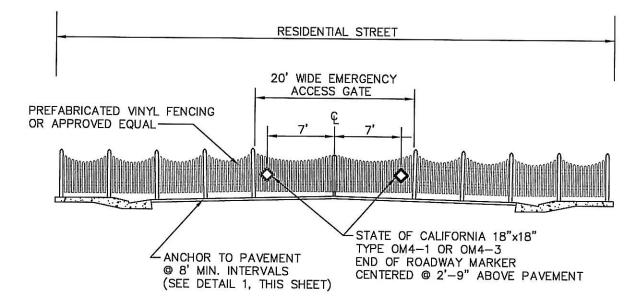




- 1. AN INTERSECTION NOT REQUIRING CROSSWALKS SHALL HAVE A STOP BAR PLACED IN THE SAME LOCATION AS THE CROSSWALK LINE CLOSEST TO THE LEGEND.
- 2. STOP SIGN INSTALLATION SHALL BE AT THE BACK OF WALK AT THE CURB RETURN OR AS DIRECTED BY THE CITY ENGINEER.

NO.	REVISED	BY	CROSSWALK/STOP BAR PLACEMENT	miller & Briaten	
DRAWN BY:	J. KOESTER		PLACENIEN	DIRECTOR OF PUBLIC WORKS	
CHECKED BY:	J. PODES	TA	CITY OF MANTECA	DRAWING NO. ST.41	
SCALE:	1" = 10'		DEPARTMENT OF PUBLIC WORKS	DATE: SEPT. 1988	





- Fencing in the Public right—of—way shall be white and reflectorized so as to be visible under normal atmospheric conditions from a minimum distance of 1,000 feet when illuminated by the low beams of standard automobile headlights.
- 2. Fencing shall have an average height of four (4) feet above pavement and shall contain a 20 foot wide openable gate in the roadway for emergency vehicle access.
- 3. Post base shall conform to Detail 1 or approved equal, and shall be secured to the asphalt pavement using ½" x 3" long lag shield driven flush with pavement and ½" x 3" galvanized lag bolts, four per base.
- 4. Prior to installation, an encroachment permit shall be obtained from the City of Manteca Public Works Department.

NO.	REVISED	BY	MODEL HOME FENCING IN SUBDIVISION STREET	Mark Houghton
DRAWN	I BY: J.	ROSS	CODDIVICION OTNEET	DIRECTOR OF PUBLIC WORKS
CHECK	ED BY: F. C	LARK	CITY OF MANTECA	DRAWING NO. CT 40
SCALE	NOT TO S	CALE	DEPARTMENT OF PUBLIC WORKS	DATE: APR. 2008