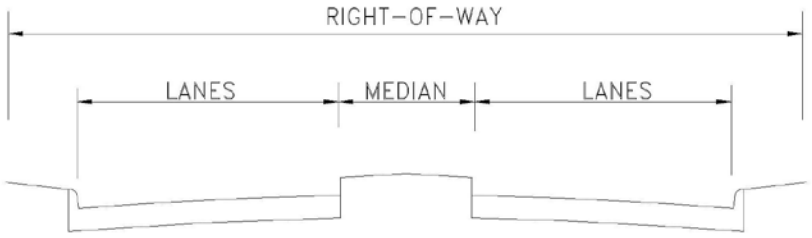
APPENDIX B
Figures

Figure

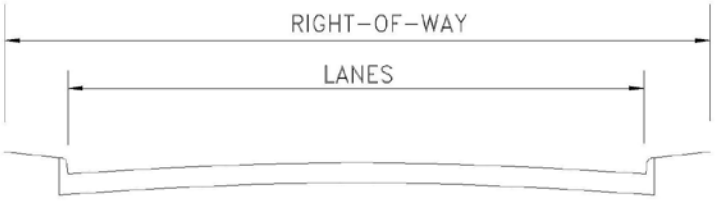
1. Geometric Street Design Standards
2. Divided Roadway Cross Sections – Urban
3. Roadway Tapers For Subdivision Streets
4. Undivided Roadway Cross Sections – Urban
5. Typical Length of Median and Median Opening
6. Median Nose and Left Turn Bay Design
7. Cul-de Sac
8. Driveway spacing and other measurements
9. Off-Street Parking

FIGURE 1

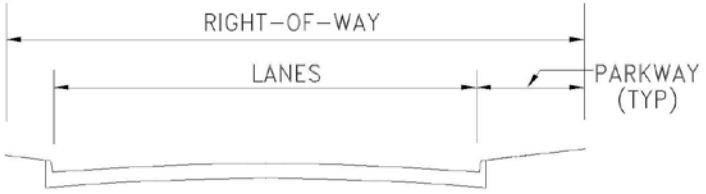
GEOMETRIC STREET DESIGN STANDARDS (MINIMUM STANDARDS)



DIVIDED ROADWAYS
BOULEVARDS – THOROUGHFARES



UNDIVIDED ROADWAYS
COMMERCIAL – COLLECTORS

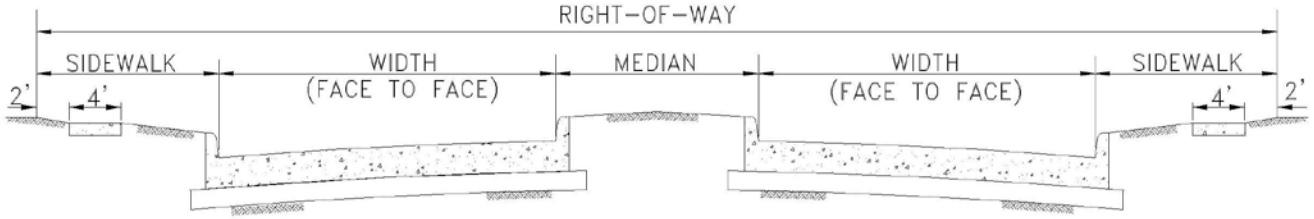


LOCAL STREET

	DIVIDED		UNDIVIDED		
NUMBER TRAFFIC LANES	6	4	4	2	2
LANE WIDTH (FT)	12	12	11 F-F	40 F-F	27 F-F
R.O.W. WIDTH (FT)	120	100	80	60	50
DESIGN SPEED (MPH)	40 – 55	40 – 50	30 – 40	30 – 40	20 – 30
MAX. GRADE (%)	6	6	8	8	10
STOPPING SIGHT DISTANCE (FT)	325 – 525	325 – 475	200 – 325	200 – 325	125 – 200
HORIZONTAL CURVATURE MIN. RADIUS (FT)	2000	1050	850	850	300
VERTICAL CLEARANCE (FT)	15.5	15.5	15.5	15.5	15.5
LATERAL CLEARANCE (FT)	6	6	6	6	–
MIN. MEDIAN WIDE (FT)	28	28	–	–	–
PARKING PERMITTED	NO	NO	NO	SOME	YES
PARKWAY WIDTH (FT)	10	12	18	10	11.5

FIGURE 2

DIVIDED ROADWAY CROSS SECTIONS–URBAN



DIVIDED ROADWAY DIMENSIONS (In Feet)			
R.O.W.	80	100	100
WIDTH	24	24	33
MEDIAN	14	28	14
SIDEWALK	9	12	10

NOTE:
THIS DESIGN REPRESENTS THE PRESENCE OF A TYPICAL CURB AND GUTTER, AND DOES NOT IMPLY OR RECOMMEND A SPECIFIC DRAINAGE DESIGN

FIGURE 3

ROADWAY TAPERS FOR SUBDIVISION STREETS

1. MINIMUM 250' FOR RESTRICTED AND UNRESTRICTED RESERVES AND LOCATIONS WHERE A LEFT TURN LANE MAY BE REQUIRED.
2. MEDIAN OPENING MAY NOT BE ALLOWED IF MEDIAN IS LESS THAN 250' IN LENGTH.

NOTE:

a. APPROACH AND DEPARTURE TAPER REQUIREMENT:

$L=\frac{WS^2}{60}$ WHERE L = LENGTH IN FEET
S = SPEED IN M.P.H.
W = LATERAL OFFSET IN FEET

S = 30 M.P.H. MINIMUM DESIGN SPEED FOR SUBDIVISION STREETS
W = A–B

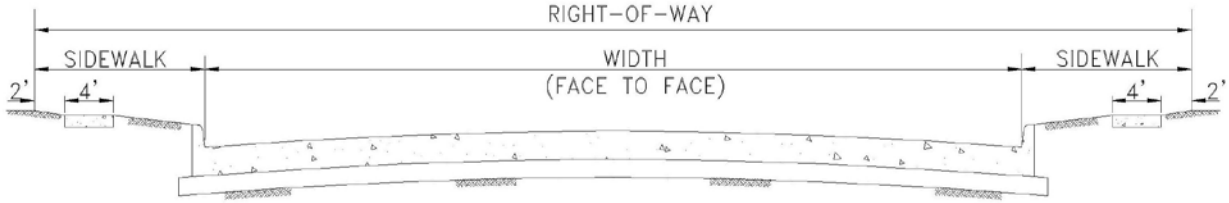
b. 350' MINIMUM CENTERLINE RADIUS FOR HORIZONTAL CURVE WITH APPROACH OR DEPARTURE TAPERS

QUICK REFERENCE GUIDE

ROADWAY CROSS SECTION (FEET)		TAPER $L=\frac{WS^2}{60}$ (FEET)
A+A	B+B	
80	60	150
80	40	300
80	27	400

FIGURE 4

UNDIVIDED ROADWAY CROSS SECTIONS–URBAN



UNDIVIDED ROADWAY DIMENSIONS (In Feet)				
ABUTTING	RESIDENTIAL			ALL OTHER
LAND USE	MFR–GHD	SFR		MINOR/(2) COMM.
R.O.W.	50*(1)	60	60	80
WIDTH	27	27	40	44
SIDEWALK	11.5	16.5	10	18

(1) RIGHT–OF–WAY IN MFR–GHD SHALL MEAN THE DRAINAGE AND UTILITY EASEMENT UTILIZED WHEN PRIVATE STREETS ARE CONSTRUCTED.

(2) MINOR/COMM.– ANY PROPERTY USE OTHER THAN SINGLE FAMILY OR A COLLECTOR OR MINOR THOROUGHFARE

NOTE:
THIS DESIGN REPRESENTS THE PRESENCE OF A TYPICAL CURB AND GUTTER, AND DOES NOT IMPLY OR RECOMMEND A SPECIFIC DRAINAGE DESIGN

FIGURE 5

TYPICAL LENGTH OF MEDIAN AND MEDIAN OPENING

TYPICAL LENGTH OF MEDIAN OPENING "C" = 50' OR D+10', WHICHEVER IS GREATER.

MINIMUM ACCEPTABLE MEDIAN LENGTH FOR TYPE OF STREET				
	PURPOSE OF MEDIAN INTERRUPTION			
IF PLANNED DIVIDED STREET IS:	MAJOR STREET/ THOROUGHFARE (A)	COLLECTOR STREET (A)	LOCAL STREET (A)	PRIVATE STREET OR DRIVEWAY (B)
MAJOR STREET/ THOROUGHFARE	350'	300'	300'	300'
COLLECTOR STREET	300'	250'	250'	250'
LOCAL STREET	250'	250'	250'	200'

FIGURE 6

MEDIAN NOSE AND LEFT TURN BAY DESIGN

MEDIAN DIMENSIONS			
W	R_1	R_2	R_3
≤ 8'	NONE	$\frac{W}{2}$	NA
>8' ≤ 38'	90°	$\frac{W}{5}$	NA
>38'	NONE	NONE	15°

NA - NOT APPLICABLE

LEFT TURN BAY DIMENSIONS

A = 150' MINIMUM AT INTERSECTION OF TWO MAJOR STREETS.
= 100' MINIMUM AT ALL OTHER INTERSECTIONS.
B = 100' MINIMUM ON STRAIGHT ROADWAY.
B_1 = TAPER LENGTH MAY BE SHORTER IF IT IS ON A HORIZONTAL CURVE TO THE LEFT.
B_2 = TAPER LENGTH MAY BE LONGER IF IT IS ON A HORIZONTAL CURVE TO THE RIGHT.
NOTE: DIMENSIONS MAY BE ADJUSTED AS DETERMINED BY TxDOT.

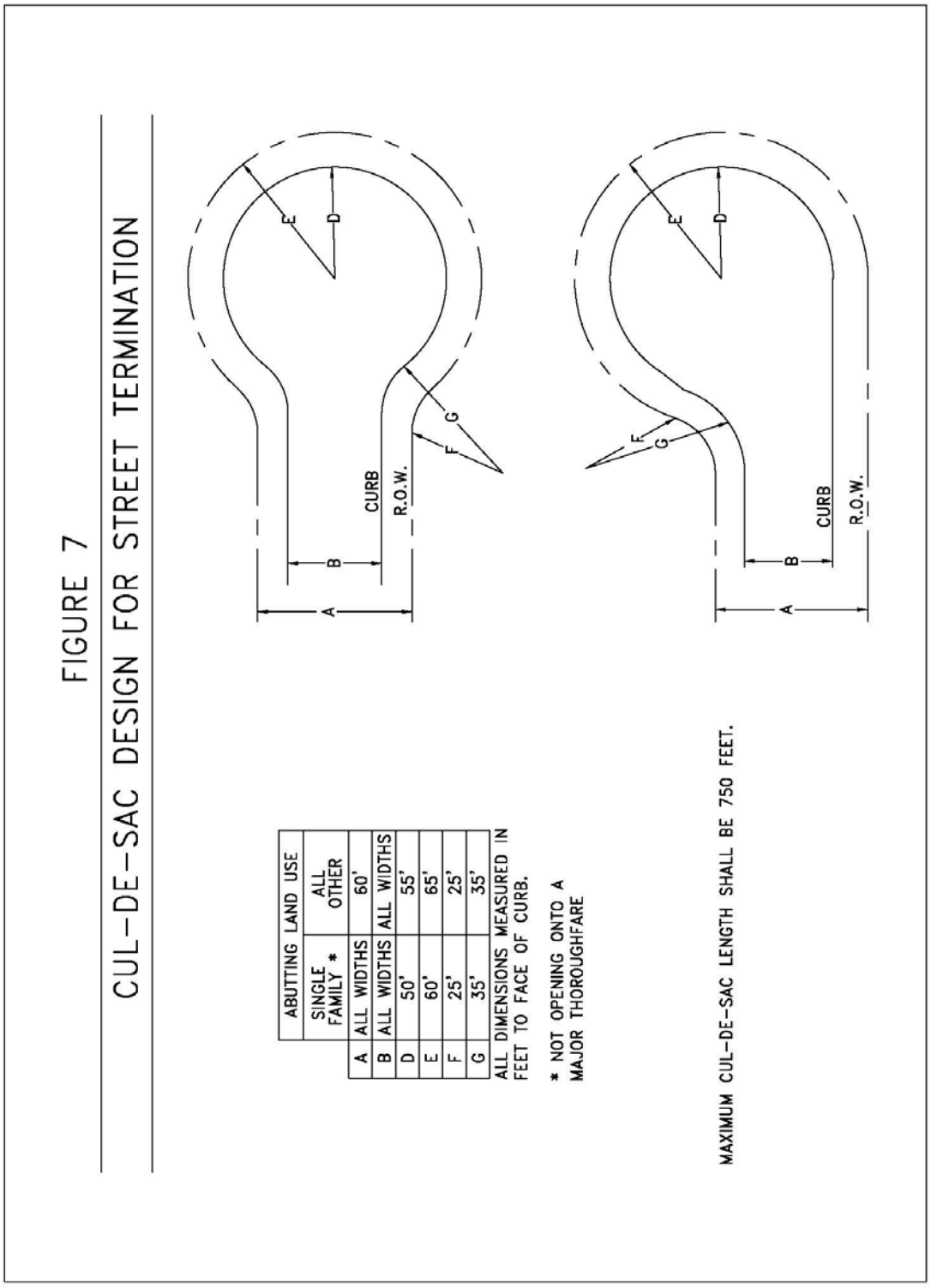


FIGURE 7
CUL-DE-SAC DESIGN FOR STREET TERMINATION
ABUTTING LAND USE
SINGLE FAMILY *
ALL OTHER
A ALL WIDTHS 60'
B ALL WIDTHS ALL WIDTHS
D 50' 55'
E 60' 65'
F 25' 25'
G 35' 35'
ALL DIMENSIONS MEASURED IN FEET TO FACE OF CURB.
* NOT OPENING ONTO A MAJOR THOROUGHFARE
A
B
CURB
R.O.W.
D
E
F
G
MAXIMUM CUL-DE-SAC LENGTH SHALL BE 750 FEET.

FIGURE 8

DRIVEWAY SPACING AND OTHER MEASUREMENTS

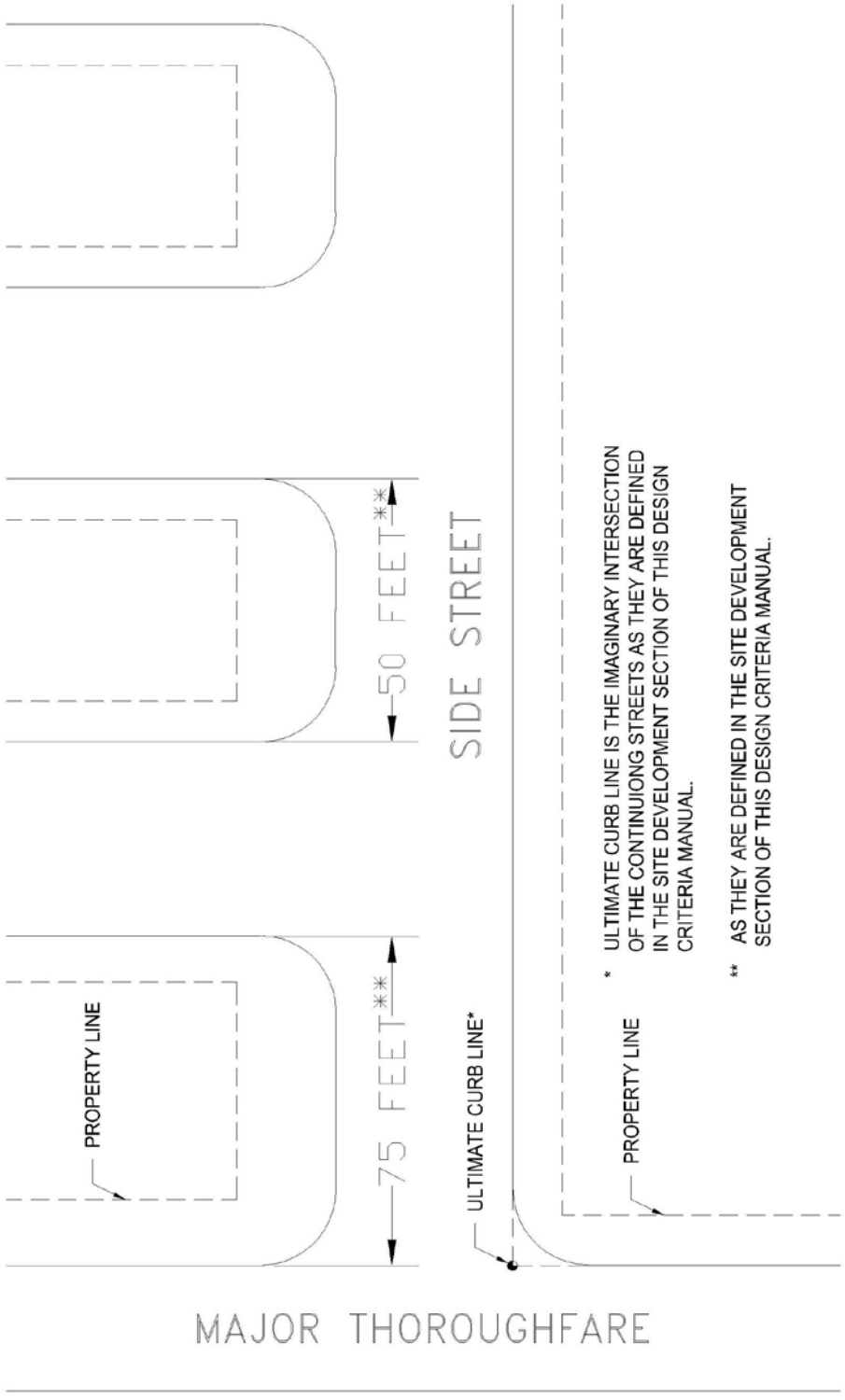


FIGURE 9

OFFSTREET PARKING

NOTES:

1. MINIMUM STALL WIDTHS SHALL BE NINE (9) FEET, EXCEPT FOR RESIDENTIAL ALL-DAY OFFICE PARKING WHICH MAY UTILIZE EIGHT AND ONE-HALF (8½) FEET IN WIDTH, PROVIDED THAT MINIMUM AISLE WIDTHS ARE INCREASED BY ONE (1) FOOT IN ADDITION, THE DIMENSIONS OF UP TO TWENTY (20) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES MAY BE REDUCED TO EIGHT (8) FEET IN WIDTH AND SIXTEEN (16) IN DEPTH TO ACCOMMODATE COMPACT AUTOMOBILES.
2. PARKING SPACES ABUTTING AN ADJOINING PROPERTY LINE OR STREET RIGHTS-OF-WAY SHALL BE PROVIDED WITH WHEEL GUARDS SO LOCATED THAT NO PART OF A NORMALLY PARKED VEHICLE WILL EXTEND BEYOND THE PROPERTY LINE.