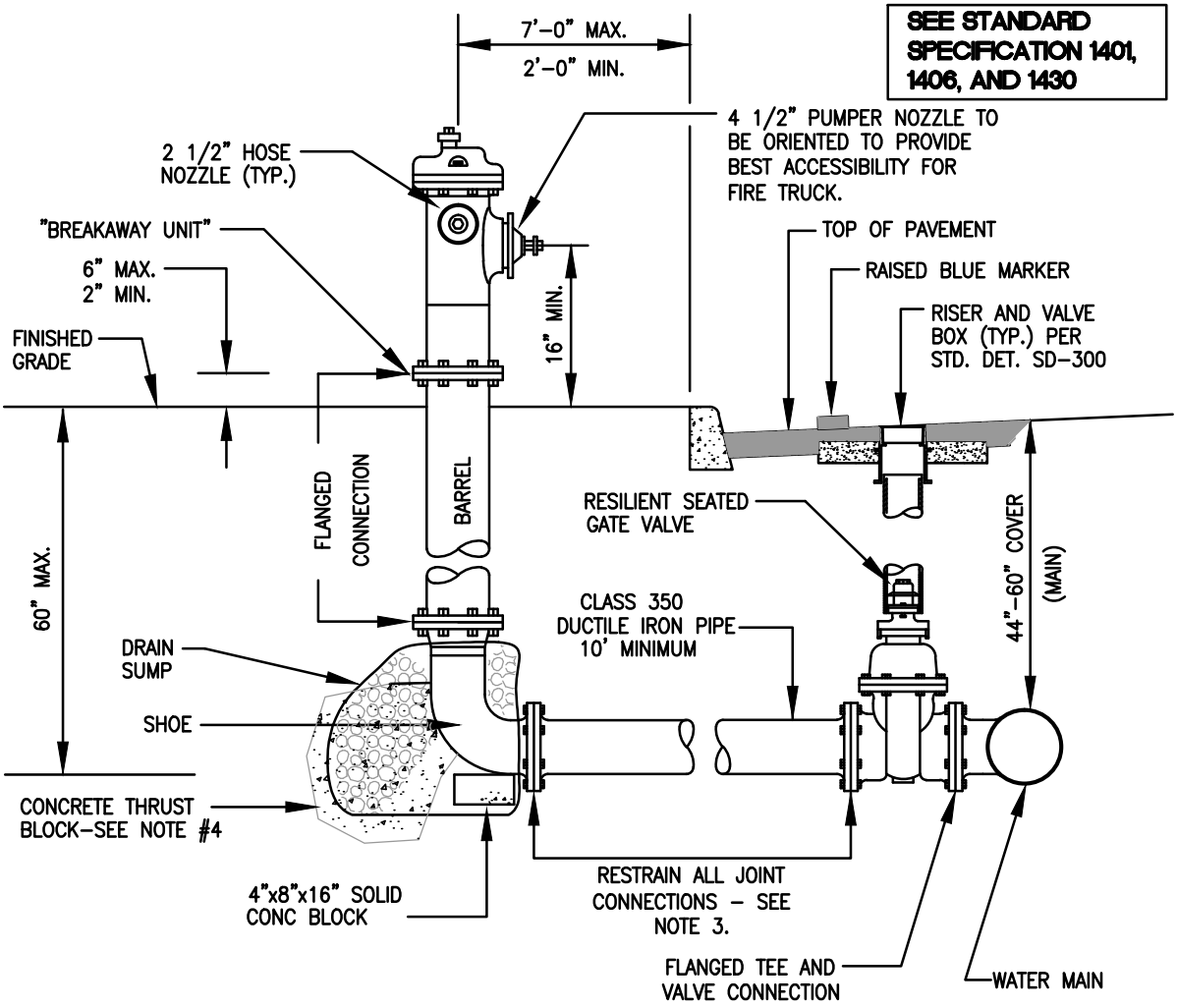
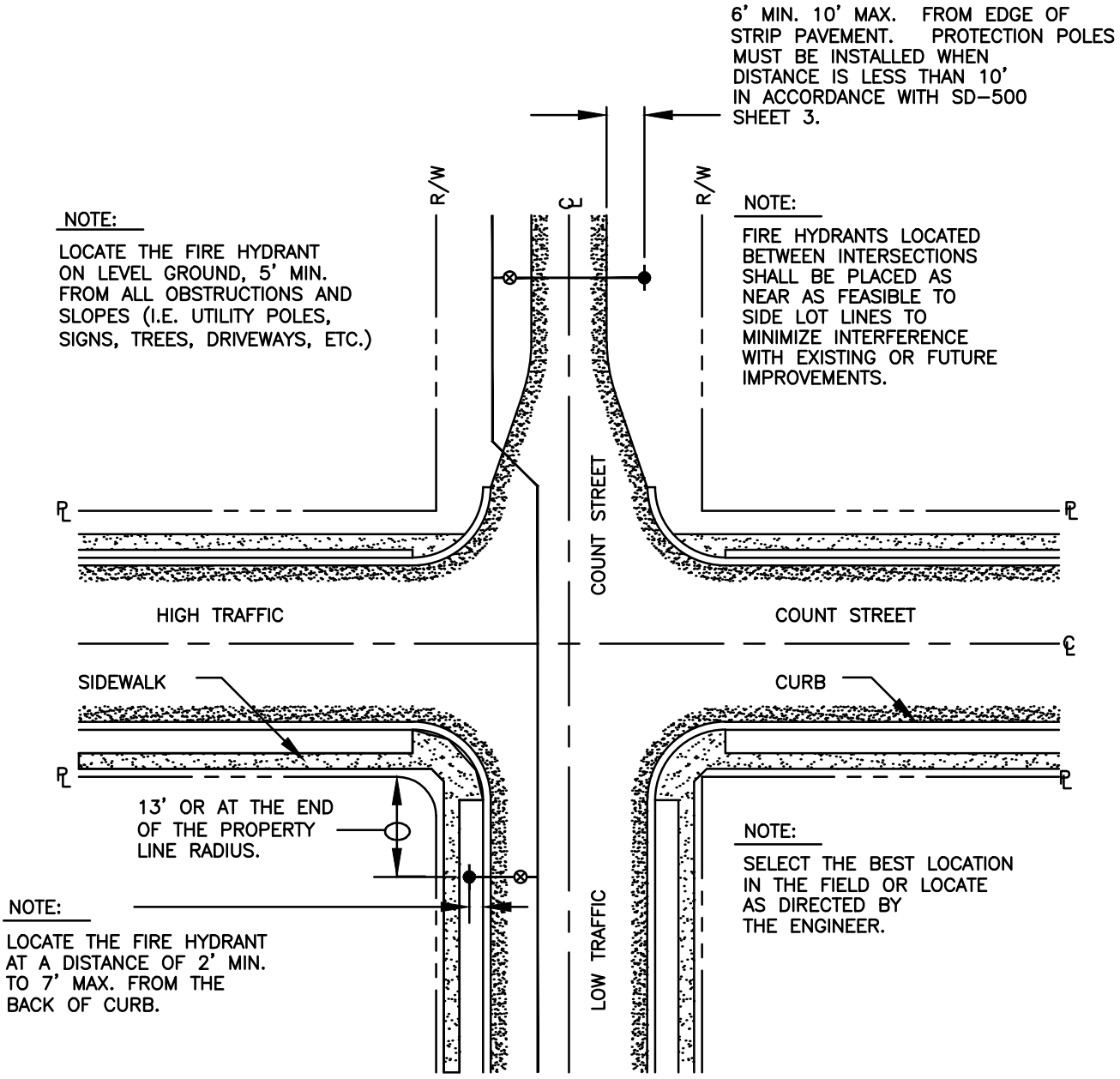


NOTES:

1. Hydrant shoe shall be a mechanical joint fitting.
2. Fire hydrants not in service shall be tagged by the contractor with "OUT OF SERVICE" rings. Rings shall be provided by Tucson Water. All hydrants will remain out of service until the project is accepted by Tucson Water.
3. All mechanically restrained joint connections shall be in accordance with Standard Specification 1406 and shall extend from water main tee to hydrant shoe.
4. Concrete thrust block per Standard Detail SD-610 shall only be used for extending existing pipe, which is not mechanically restrained, between the shoe and the main tee and approved by engineer.
5. A minimum of 8 cu.ft. of 3/4" gravel shall be provided for drain sump. Drain sump shall be a minimum of 3'-0" in diameter. Cover drain holes with drain sump material.
6. Hydrant laterals greater than 40 feet in length shall require a gate valve at the tee and within 10 feet of the hydrant and the pipe from the valve to the fire hydrant shall be Class 350 ductile iron.
7. For water mains at depths greater than 60 inches, the elevation of the hydrant shoe shall be adjusted to a depth no greater than 48 inches by the installation of fittings after the tee and gate valve.
8. Refer to Standard Detail SD-500 page 4 for stub out to be used for future fire hydrant installation.

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97	TUCSON WATER	FIRE HYDRANT INSTALLATION	TUCSON WATER	SD-500
REVISED: 8/09				SHEET 1 OF 8



NOTE:

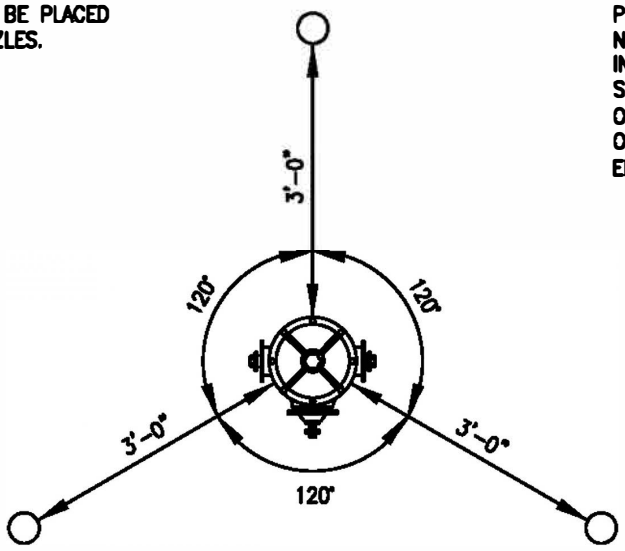
BLUE, TWO-WAY RAISED PAVEMENT MARKER INSTALLED AT FIRE HYDRANT LOCATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION FOR THE ROADWAY.

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97	TUCSON WATER	FIRE HYDRANT INSTALLATION	TUCSON WATER	SD-500
REVISED: 6/00				SHEET 2 OF 8

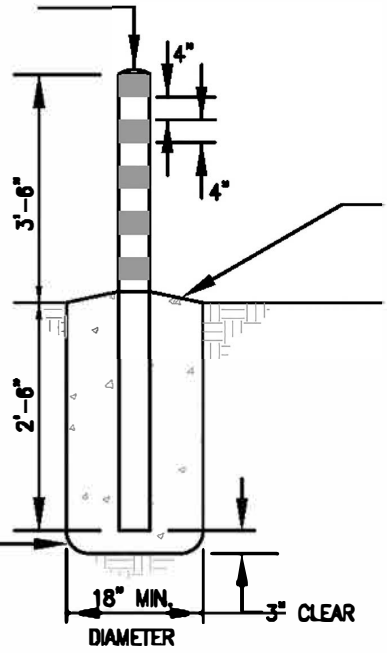
NOTE:

POSTS SHALL NOT BE PLACED IN FRONT OF NOZZLES.

POSTS MAY BE CHANGED IN NUMBER AND ARRANGEMENT IN ORDER TO ACCOMMODATE SITE CONDITIONS WHEN SHOWN ON THE APPROVED PLANS OR APPROVED BY THE ENGINEER.



FILL PIPE WITH CONCRETE AND MOUND AT TOP.



SLOPE CONCRETE AWAY FROM POLE.

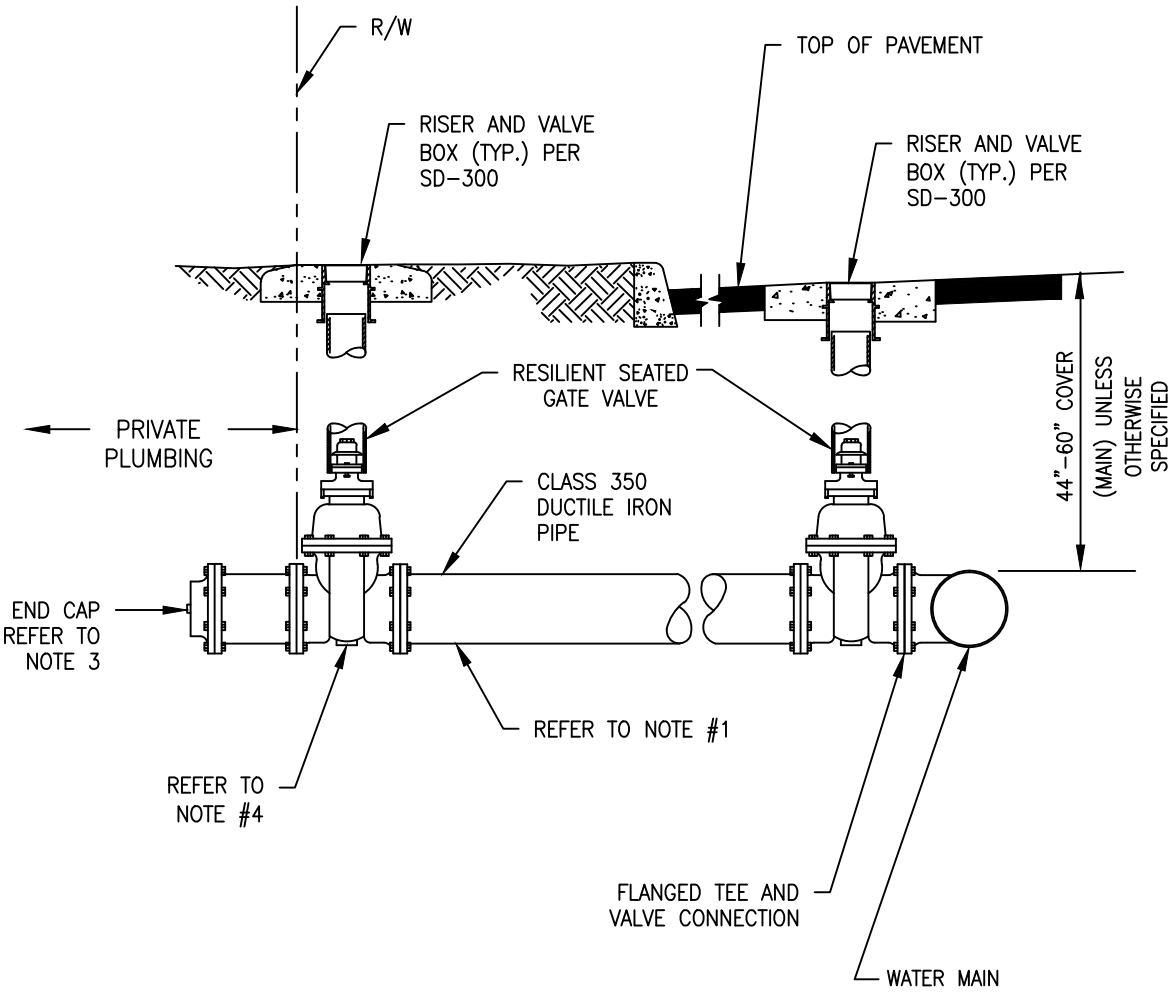
CONCRETE FOR FOUNDATION SHALL BE 2500 P.S.I.

POST BARRICADES

4" SCHEDULE 40 STEEL PIPE. PAINT WITH ONE COAT INDUSTRIAL SYNTHETIC PRIMER AND ONE COAT INDUSTRIAL SYNTHETIC DULL BLACK ENAMEL. STRIPE WITH 4" BANDS OF YELLOW REFLECTORIZED TAPE.

FIRE HYDRANT PROTECTION POSTS

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97	TUCSON WATER	FIRE HYDRANT INSTALLATION	TUCSON WATER	SD-500
REVISED: 8/00				SHEET 3 OF 8



NOTES:

1. Mechanically restrained joint connection shall be in accordance with Standard Specification 1406 and shall extend from water main tee to end cap. Mainline to be restrained per SD-600.

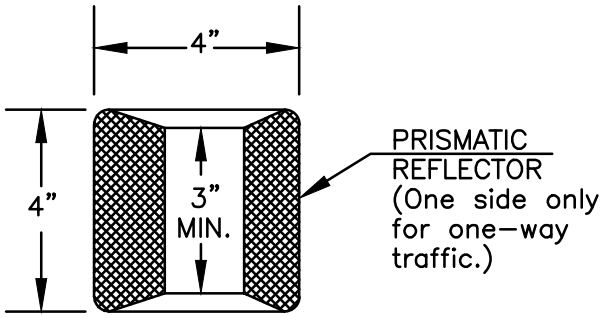
2. Concrete thrust block per SD-610 shall only be used for extending existing pipe, which is not mechanically restrained, between the cap and the main tee or when approved by the engineer.

3. End caps on stub-outs shall be restrained mechanical joint, tapped for a two inch iron pipe thread, with 2" black iron threaded plug and will be installed or adjusted to a depth of no greater than 48".

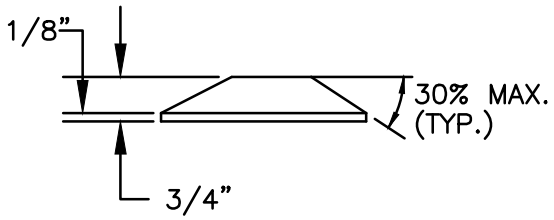
   Stub outs over 5' in length shall require a drain valve assembly in accordance with SD-400.

4. For fire service stub outs only, a secondary isolation valve shall be required. All infrastructure up to and including this isolation valve shall be the responsibility of Tucson Water. All infrastructure on the customer side of the valve shall be considered private and therefore the responsibility of the customer.

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97	TUCSON WATER	FIRE HYDRANT OR FIRE SERVICE STUB OUT	TUCSON WATER	SD-500
REVISED:				
11/13				SHEET 4 OF 8



PLAN



ELEVATION

TWO-WAY PAVEMENT MARKER

REFLECTOR COLORS

BLUE – FIRE HYDRANT MARKER, SEE SHT. 6, 7 & 8 OF SD-500 FOR PLACEMENT LOCATION.

REFLECTIVE AREA IS 3.25 SQ. IN. PER REFLECTIVE FACE.

MATERIALS

ACRYLIC PLASTIC REFLECTOR FILLED WITH A TIGHTLY ADHERENT POTTING COMPOUND.

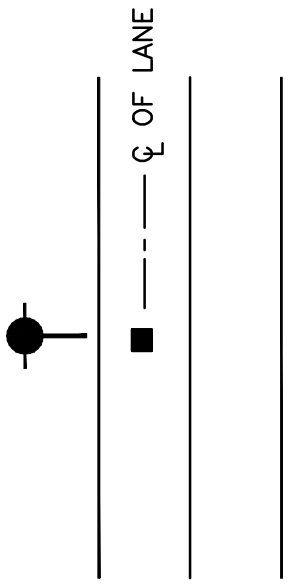
INSTALLATION

1. CLEAN SURFACE.
2. APPLY EPOXY TO SELECTED LOCATION, SPREADING EVENLY.
3. PLACE MARKER ON PREVIOUSLY DETERMINED POSITION, APPLYING SLIGHT PRESSURE TO FORCE SMALL EPOXY BEAD AROUND MARKER.

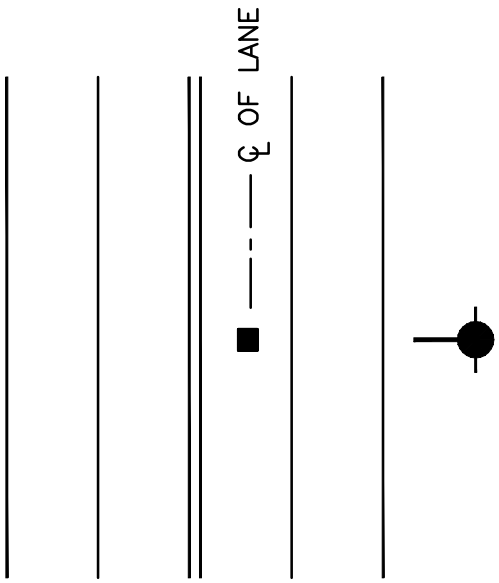
NOTE

EPOXY TO BE A PROVEN ADHERENT COMPATIBLE TO SUCH SURFACES AS ASPHALTIC CONCRETE, CONCRETE ETC., AND OR AS RECOMMENDED BY MARKER MANUFACTURER.

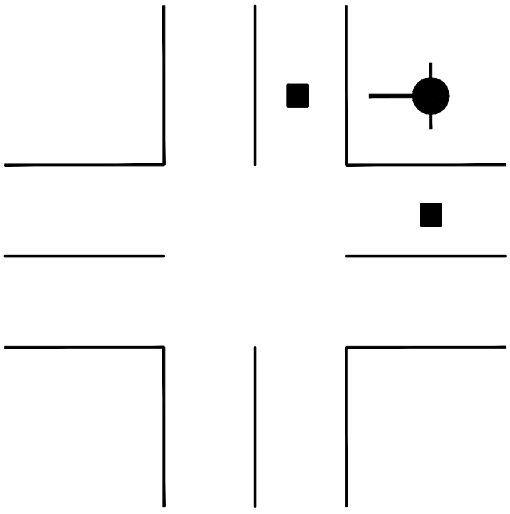
ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97	TUCSON WATER	RAISED PAVEMENT MARKER DETAIL	TUCSON WATER	SD-500
REVISED: 8/00				SHEET 5 OF 8



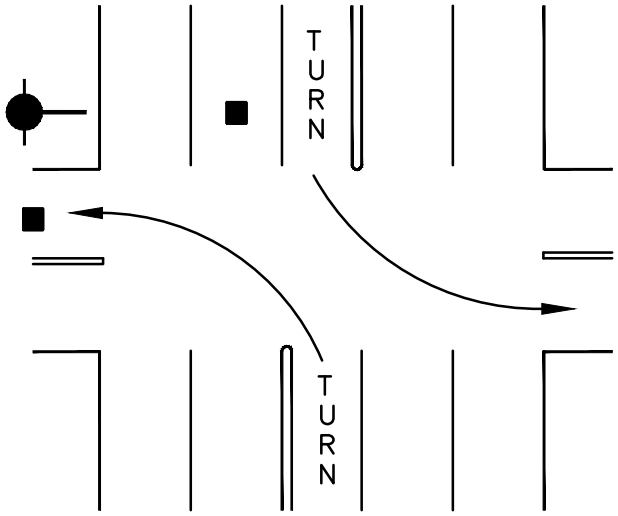
TWO LANE STREET



MULTI-LANE STREET

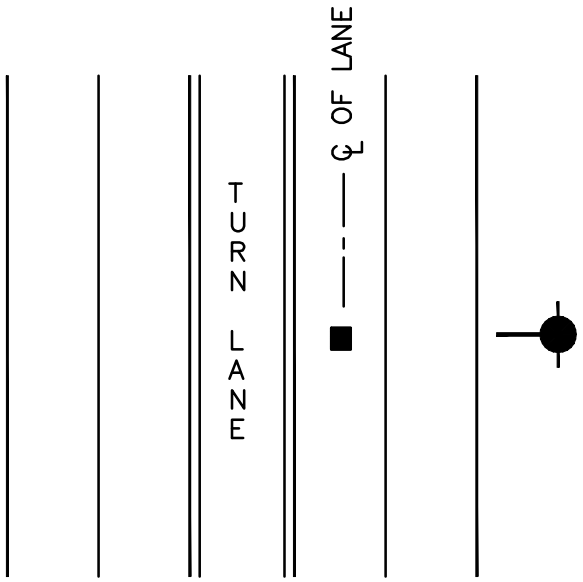


TWO LANE STREET
AT INTERSECTION

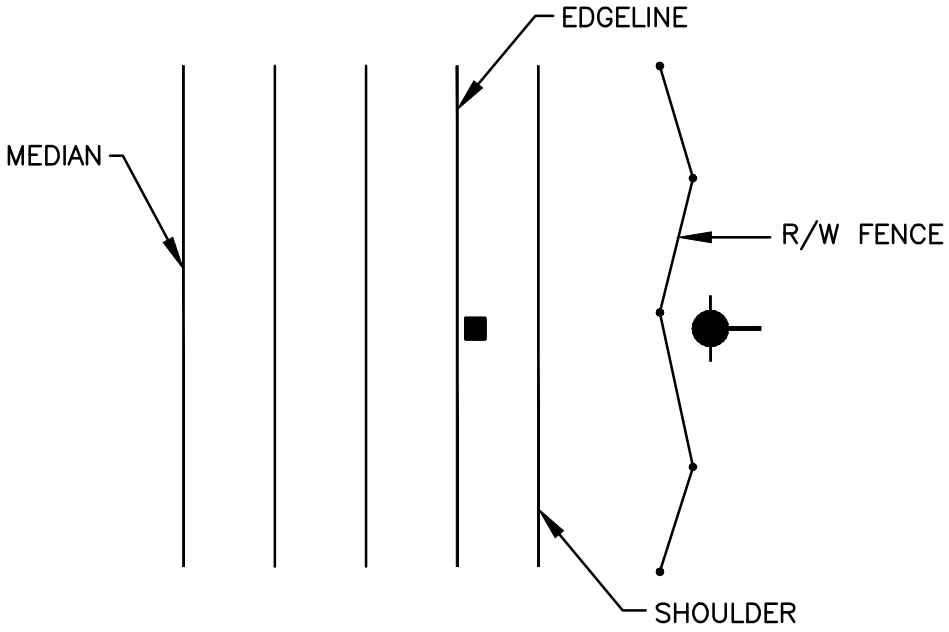


FOUR LANE STREET WITH
TURN LANE AT INTERSECTION

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97	TUCSON WATER	FIRE HYDRANT MARKER LOCATION	TUCSON WATER	SD-500
REVISED: 6/00				SHEET 6 OF 8

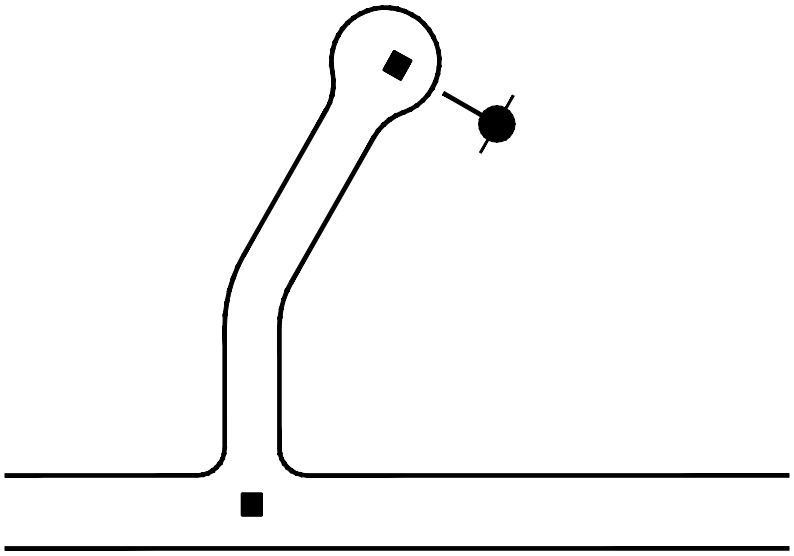


MULTI-LANE STREET WITH TURN LANE

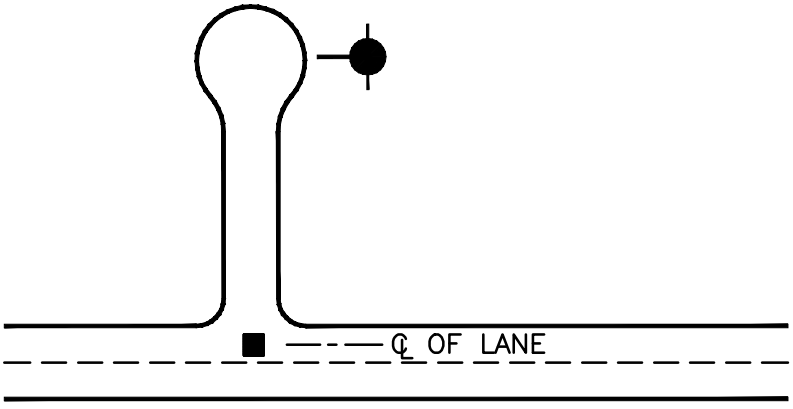


FREEWAYS AND EXPRESSWAYS

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97	TUCSON WATER	FIRE HYDRANT MARKER LOCATION	TUCSON WATER	SD-500
REVISED: 6/00				SHEET 7 OF 8



LONG CUL-DE-SAC INSTALLATION



SHORT CUL-DE-SAC INSTALLATION

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97	TUCSON WATER	FIRE HYDRANT MARKER LOCATION	TUCSON WATER	SD-500
REVISED:				
6/00				SHEET 8 OF 8