

NOTES:

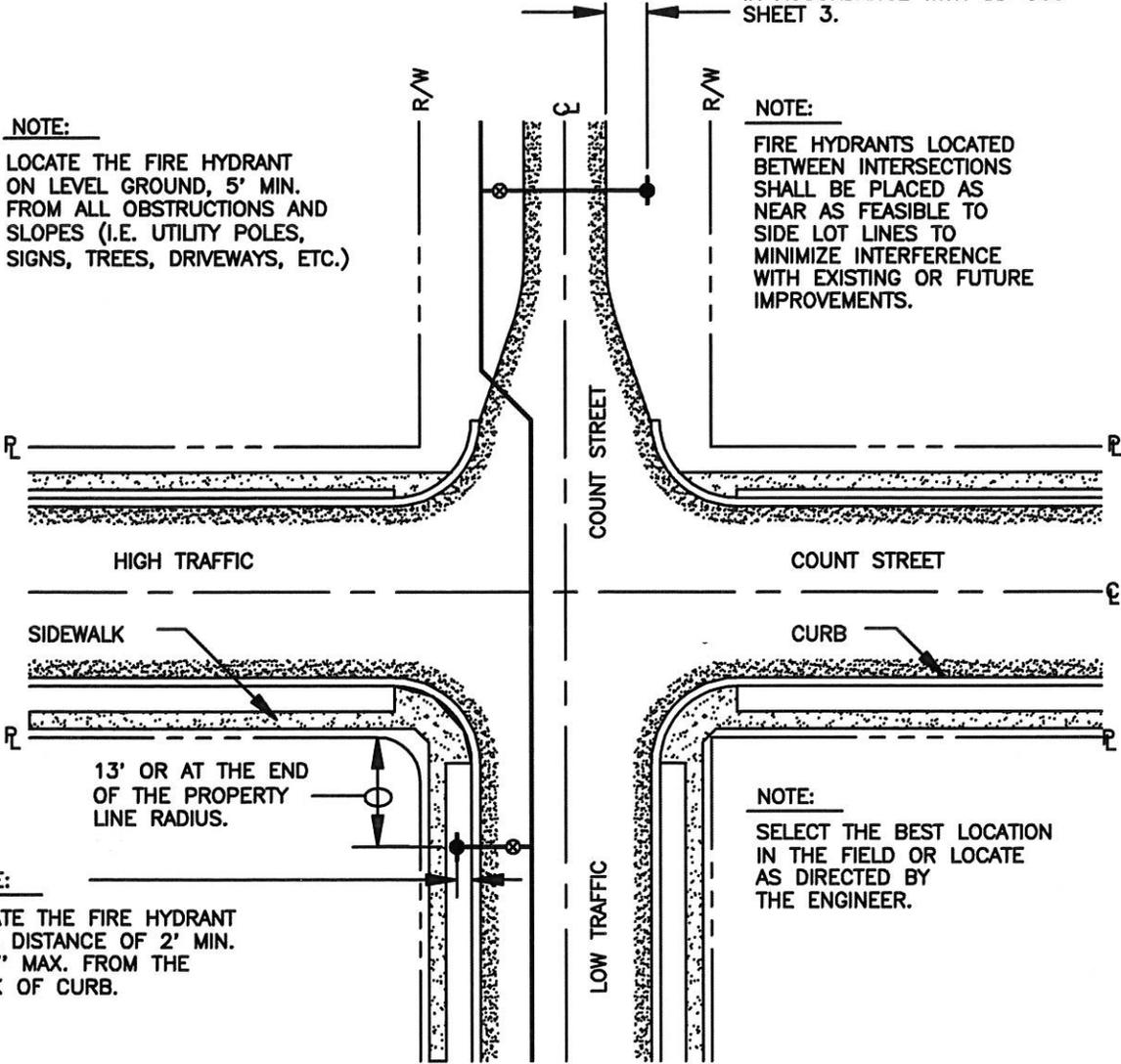
1. Hydrant shoe shall be a mechanical joint fitting.
2. Fire hydrants not in service shall be tagged by the contractor with "OUT OF SERVICE" rings. Rings shall be provided by Tucson Water. All hydrants will remain out of service until the project is accepted by Tucson Water.
3. All mechanically restrained 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		FIRE HYDRANT INSTALLATION		SD-500
REVISED:				SHEET 1 OF 8
8/09				

6' MIN. 10' MAX. FROM EDGE OF STRIP PAVEMENT. PROTECTION POLES MUST BE INSTALLED WHEN DISTANCE IS LESS THAN 10' IN ACCORDANCE WITH SD-500 SHEET 3.

NOTE:
LOCATE THE FIRE HYDRANT ON LEVEL GROUND, 5' MIN. FROM ALL OBSTRUCTIONS AND SLOPES (I.E. UTILITY POLES, SIGNS, TREES, DRIVEWAYS, ETC.)

NOTE:
FIRE HYDRANTS LOCATED BETWEEN INTERSECTIONS SHALL BE PLACED AS NEAR AS FEASIBLE TO SIDE LOT LINES TO MINIMIZE INTERFERENCE WITH EXISTING OR FUTURE IMPROVEMENTS.



NOTE:
LOCATE THE FIRE HYDRANT AT A DISTANCE OF 2' MIN. TO 7' MAX. FROM THE BACK OF CURB.

NOTE:
SELECT THE BEST LOCATION IN THE FIELD OR LOCATE AS DIRECTED BY THE ENGINEER.

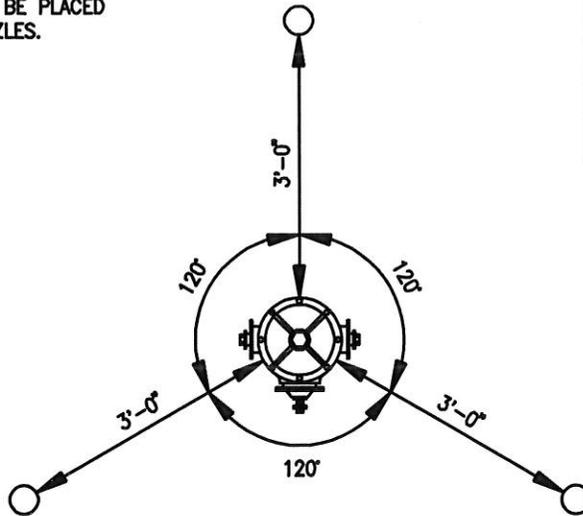
NOTE:
BLUE, TWO-WAY RAISED PAVEMENT MARKER INSTALLED AT FIRE HYDRANT LOCATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION FOR THE ROADWAY.

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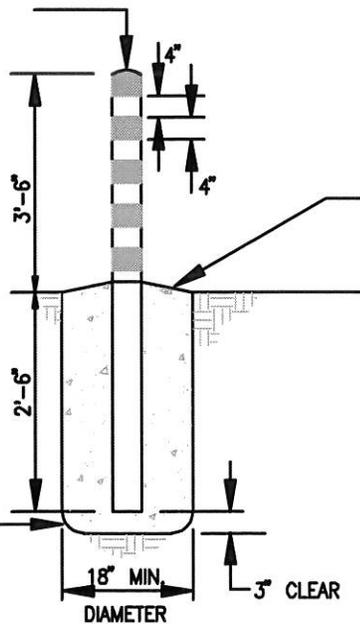
NOTE:

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.

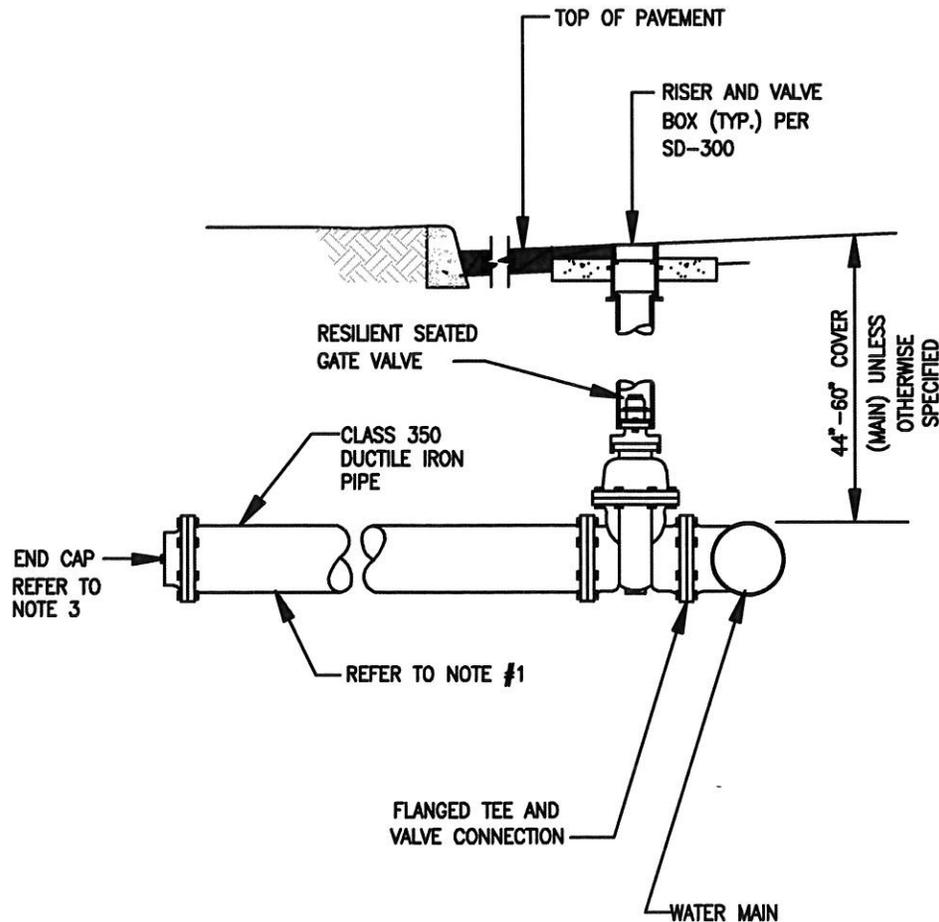
CONCRETE FOR
FOUNDATION SHALL
BE CLASS "B"
(2500 P.S.I.)

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**

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6/97		FIRE HYDRANT INSTALLATION		SD-500
REVISED:				SHEET 3 OF 8
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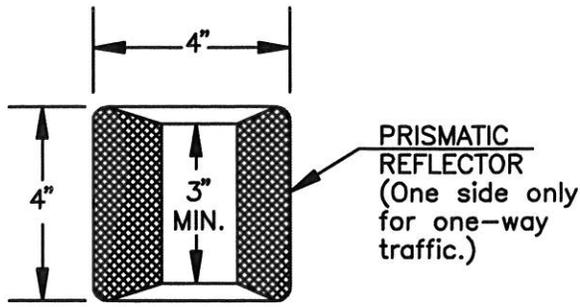


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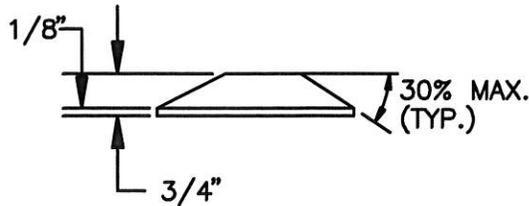
1. Mechanically restrained joint connection shall be in accordance with Standard Specification 1406 and shall extend from water main tee to end cap. Mainline to be restrained per SD-600.
2. Concrete thrust block per SD-610 shall only be used for extending existing pipe, which is not mechanically restrained, between the cap and the main tee or when approved by the engineer.
3. End caps on stub-outs shall be mechanical joint, tapped for a two inch iron pipe thread, with 2" galvanized 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.

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97		FIRE HYDRANT OR FIRE SERVICE STUB OUT		SD-500
REVISED:				SHEET 4 OF 8
8/09				



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.

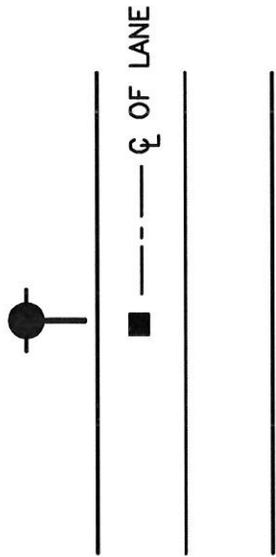
INSTALLATION

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.

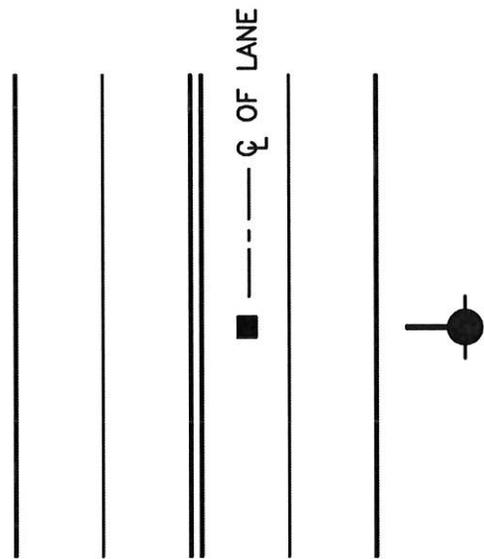
NOTE

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

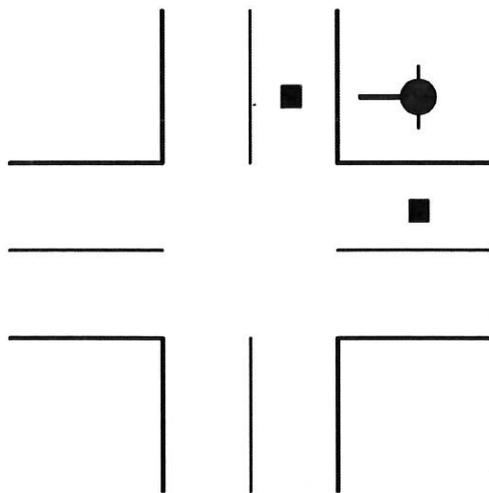
ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97		RAISED PAVEMENT MARKER DETAIL		SD-500
REVISED:				
8/00				



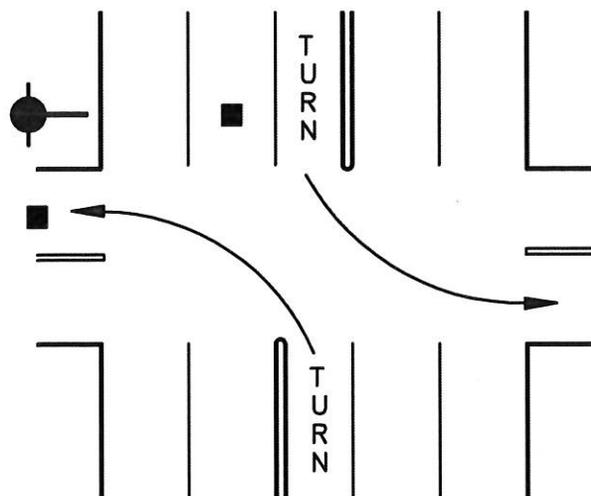
TWO LANE STREET



MULTI-LANE STREET

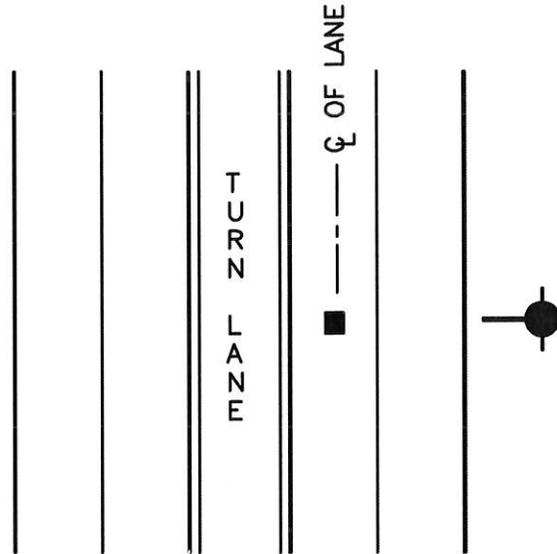


TWO LANE STREET
AT INTERSECTION

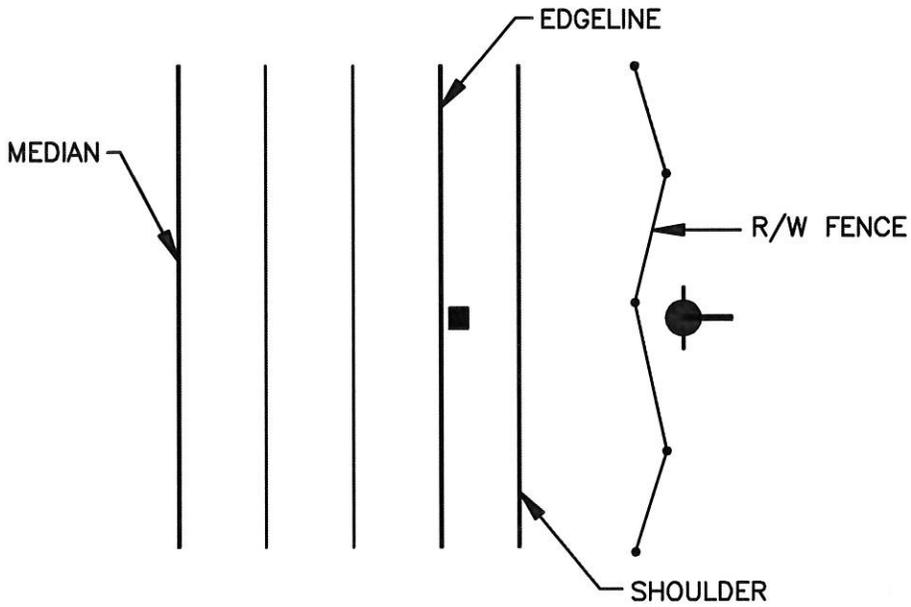


FOUR LANE STREET WITH
TURN LANE AT INTERSECTION

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6/97		FIRE HYDRANT MARKER LOCATION		SD-500
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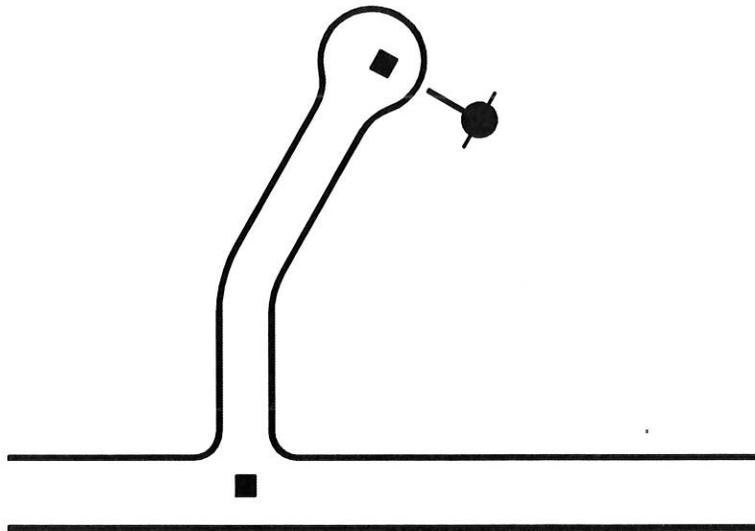


MULTI-LANE STREET WITH TURN LANE

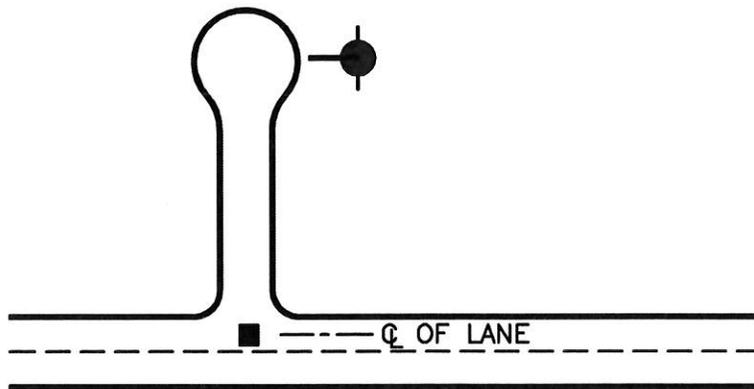


FREEWAYS AND EXPRESSWAYS

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6/97		FIRE HYDRANT MARKER LOCATION		SD-500
REVISED:				
6/00				



LONG CUL-DE-SAC INSTALLATION



SHORT CUL-DE-SAC INSTALLATION

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