

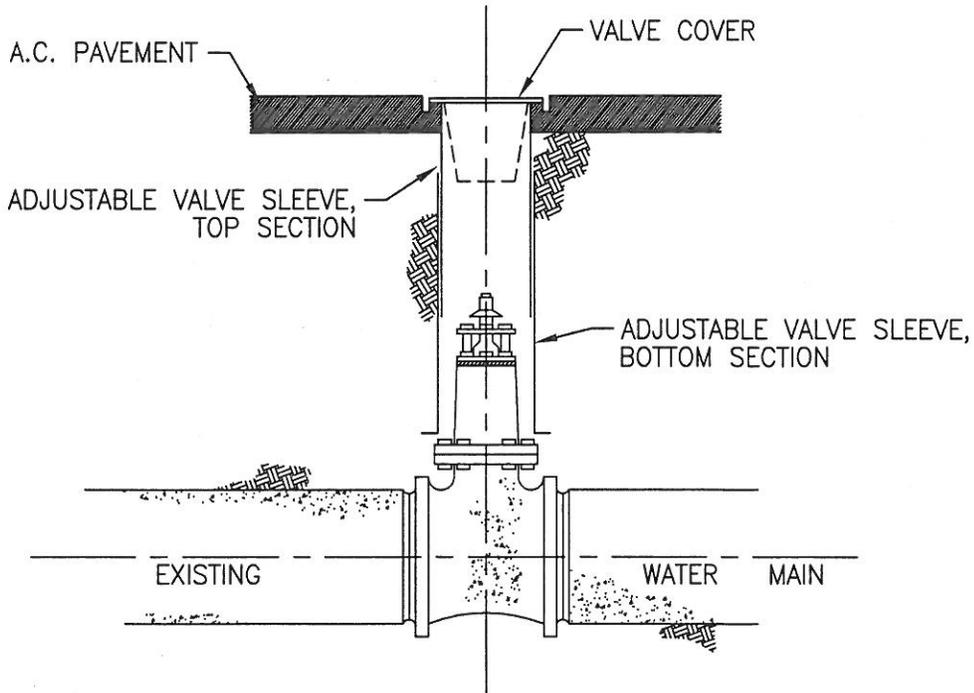
SECTION 6000

MISCELLANEOUS

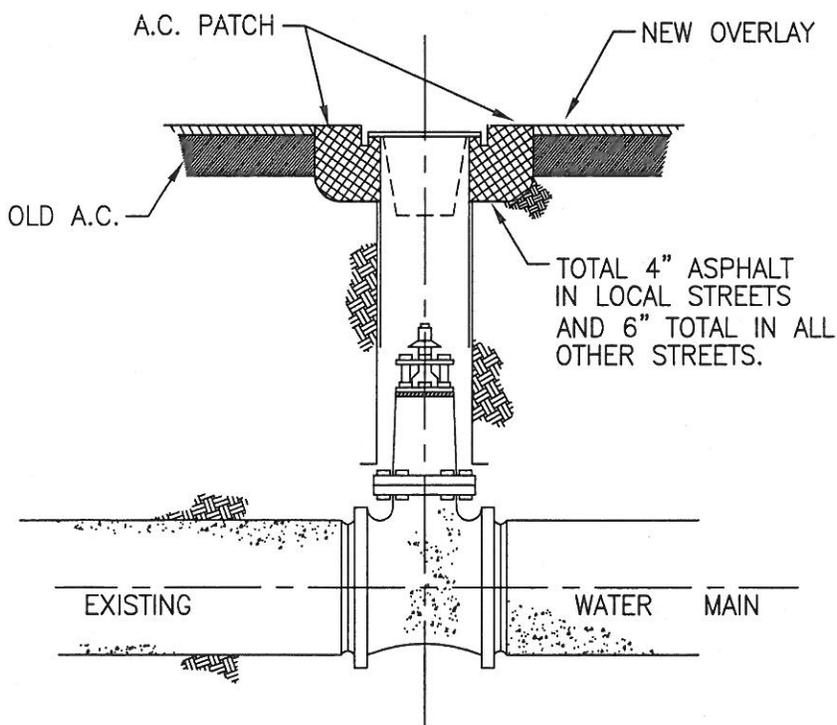
CONSTRUCTION STANDARDS

SECTION 6000 – MISCELLANEOUS

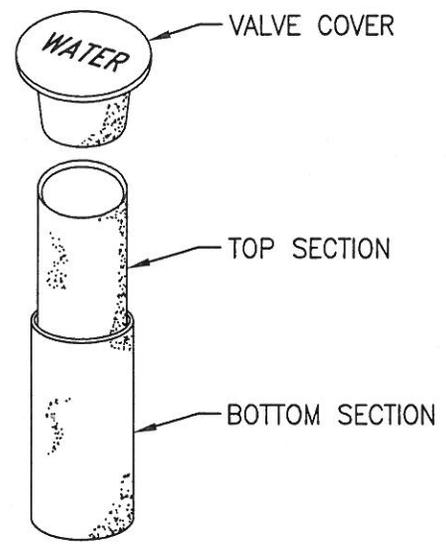
6000	Typical Gate Valve Adjustments
6001 (4 Sheets)	“Blue Dot” Marker Placement
6002 (2 Sheets)	Storm Drain Inlet Signage



NEW CONSTRUCTION

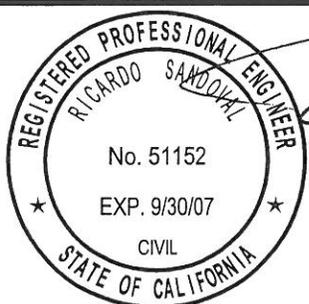


OVERLAY CONSTRUCTION



ADJUSTABLE VALVE SLEEVE

NOT TO SCALE

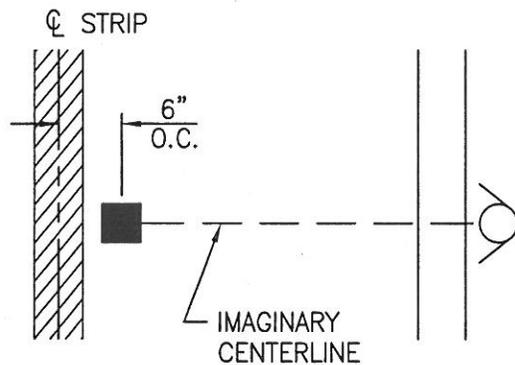


APPROVED BY: *[Signature]* 10.18.06
 CITY ENGINEER **RICARDO SANDOVAL** DATE
 REVIEWED BY: *[Signature]*
 DATE OF LAST REVISION: _____

CITY OF FONTANA	
TYPICAL GATE VALVE ADJUSTMENTS	
07/10/06	
STD. PLAN NO. 6000	SHT 1 OF 1

"BLUE DOT" MARKER PLACEMENT NOTES

1. THE REFLECTIVE SIDE SHALL FACE THE FLOW OF TRAFFIC.
2. THE "BLUE DOT" SHALL BE IN LINE WITH THE FIRE HYDRANT, EXCEPT WHERE TWO (2) DOTS ARE USED FOR INTERSECTIONS.
3. A BLUE REFLECTIVE MARKER WILL BE PLACED 6" ON CENTER FROM PAINTED LINES AS PER PLACEMENT STANDARDS 702-1, 2, OR 3, AS APPLICABLE. IF NO TRAFFIC LINES EXIST, PLACE BLUE DOT 6" FROM THE CENTER OF THE STREET ON THE FIRE HYDRANT SIDE. (SEE STANDARD PLACEMENT DETAIL HEREON).
4. IF A PAINTED TRAFFIC LIMIT LINE FOR STOP SIGNS EXISTS, PLACE THE SECOND "BLUE DOT" 2 FEET BACK FROM LINE, 6" ON CENTER FROM PAINTED TRAFFIC LIMIT LINE (SEE STANDARD 702-1, "TWO LANE STREET AT INTERSECTION").
5. IF NO TRAFFIC LIMIT LINE FOR STOP SIGNS EXISTS, PLACE "BLUE DOT" IN LINE WITH SIDEWALK EDGE ON THE SIDE CLOSEST TO PROPERTY LINE, 6" ON CENTER FROM THE CENTER OF THE STREET LINE (SEE STANDARD 702-1, "TWO LANE STREET AT INTERSECTION").
6. THE "BLUE DOT" SHALL BE APPLIED TO A DRY, DIRT FREE STREET AND ENOUGH EPOXY SHALL BE APPLIED SO THAT SOME EPOXY OOOZES OUT AROUND THE EDGE OF THE "BLUE DOT".



UNMARKED STREETS: PLACE MARKER 6" FROM EDGE OF IMAGINARY CENTERLINE OF STREET ON HYDRANT SIDE.

MARKED STREETS: PLACE MARKERS 6" FROM CENTERLINE OF PAINTED LINE TO CENTERLINE OF MARKER ON HYDRANT SIDE.



NOT TO SCALE



APPROVED BY:

Ricardo Sandoval
10.18.06

CITY ENGINEER
RICARDO SANDOVAL

DATE

REVIEWED BY: *DL*

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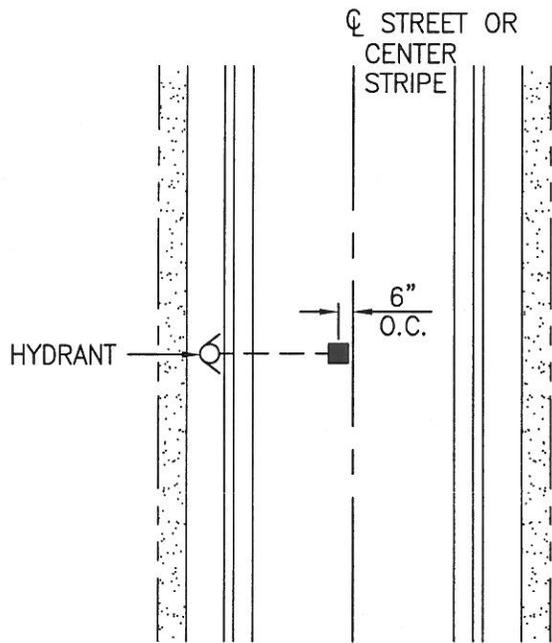
CITY OF FONTANA

**"BLUE DOT"
MARKER PLACEMENT**

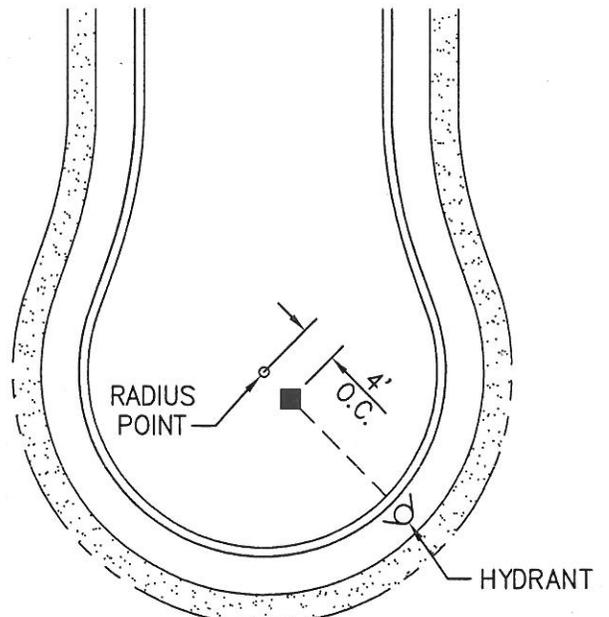
07/10/06

STD. PLAN NO. **6001**

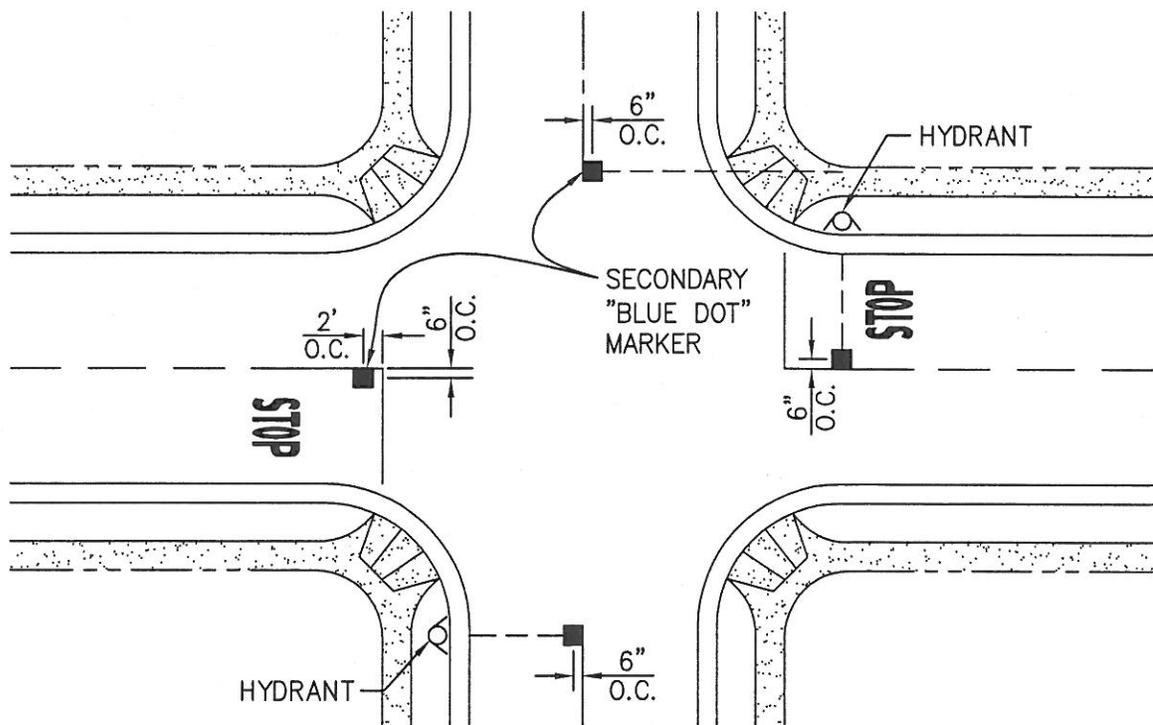
SHT **1** OF **4**



TWO LANE STREET



CUL-DE-SAC



TWO LANE STREET AT INTERSECTION

NOTE: FOR NOTES REGARDING "BLUE DOT" MARKER PLACEMENT, SEE STD. PLAN 702-0

NOT TO SCALE



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Ricardo Sandoval 10.18.06

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RICARDO SANDOVAL

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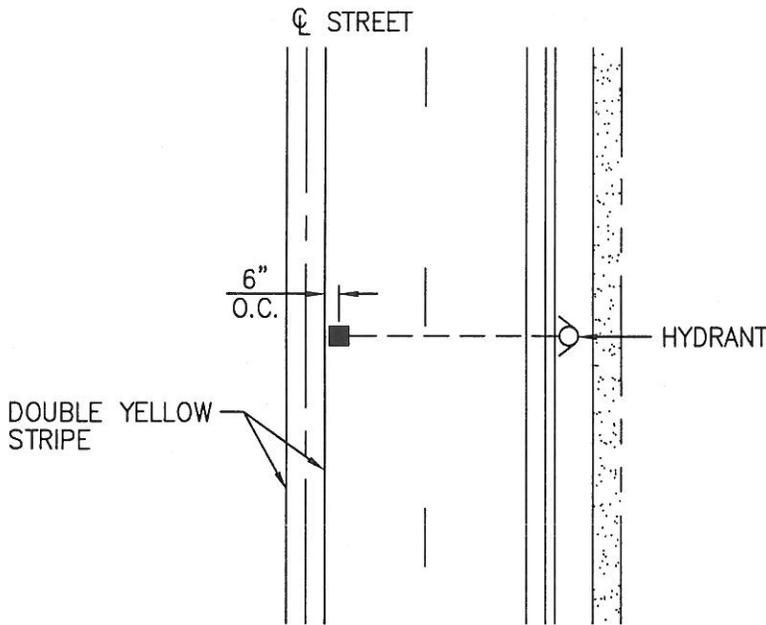
CITY OF FONTANA

"BLUE DOT"
MARKER PLACEMENT

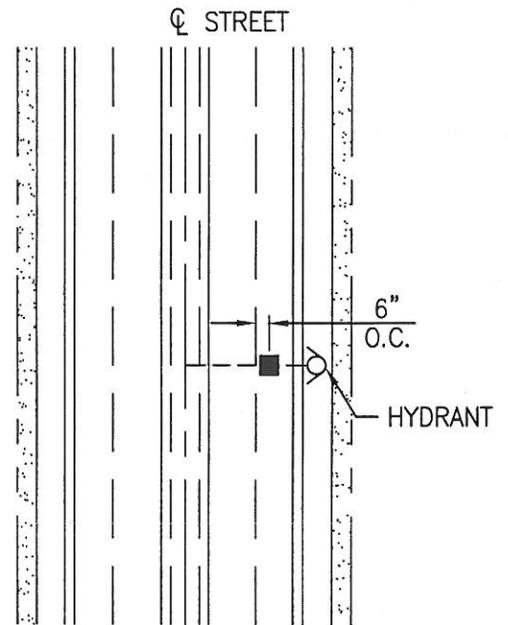
07/10/06

STD. PLAN NO. **6001**

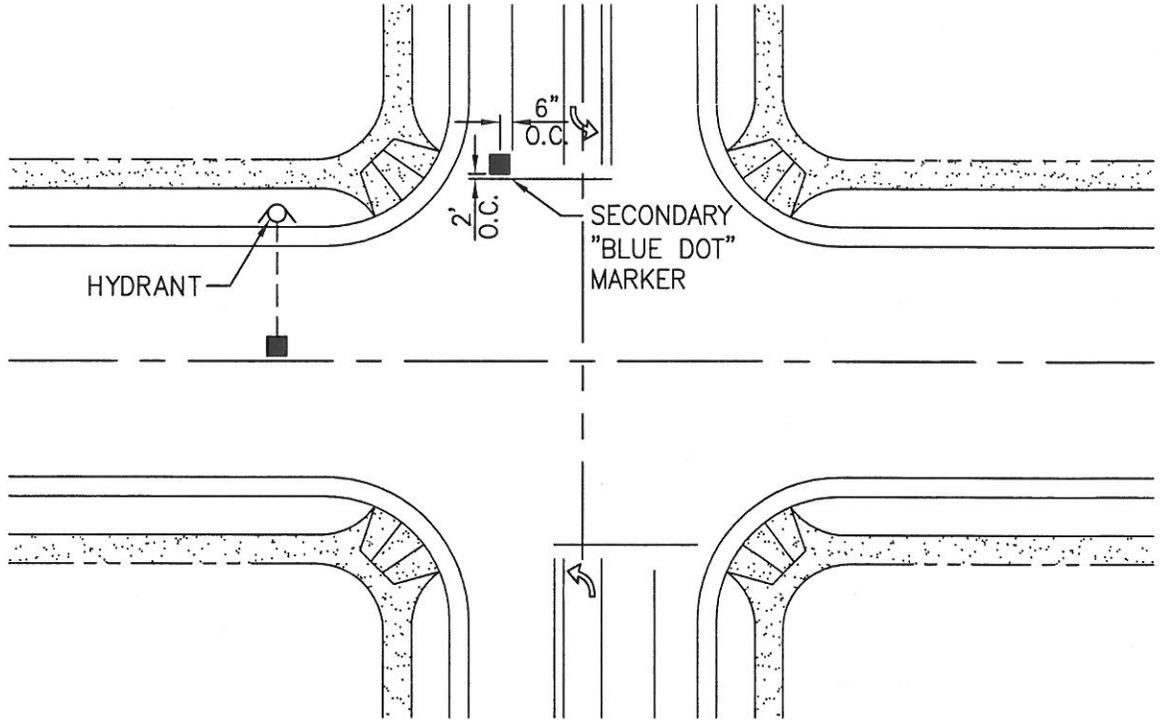
SHT **2** OF **4**



FOUR LANE STREET



FOUR LANE STREET WITH TURN LANE



FOUR LANE STREET WITH TURN LANE AT INTERSECTION

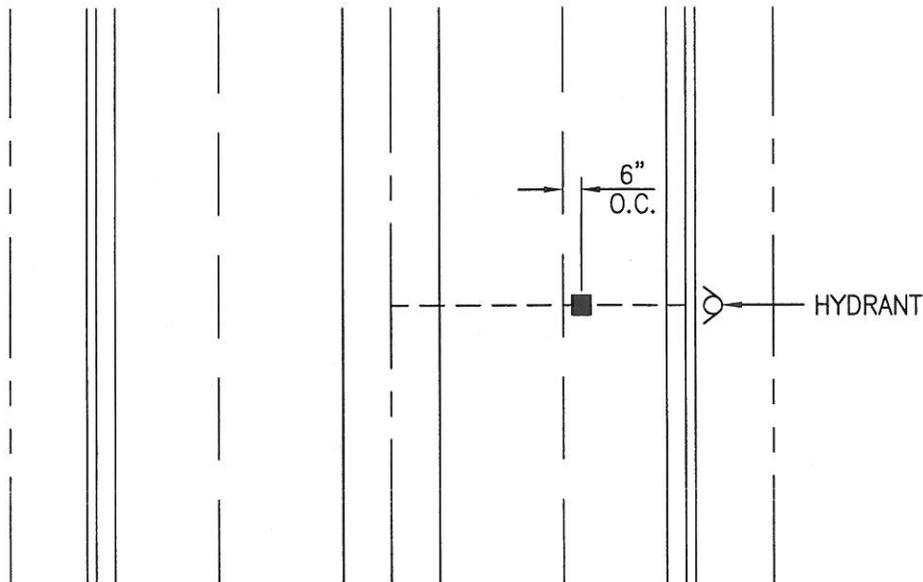
NOTE: FOR NOTES REGARDING "BLUE DOT" MARKER PLACEMENT, SEE STD. PLAN 702-0 NOT TO SCALE



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RICARDO SANDOVAL
 REVIEWED BY: *RS*
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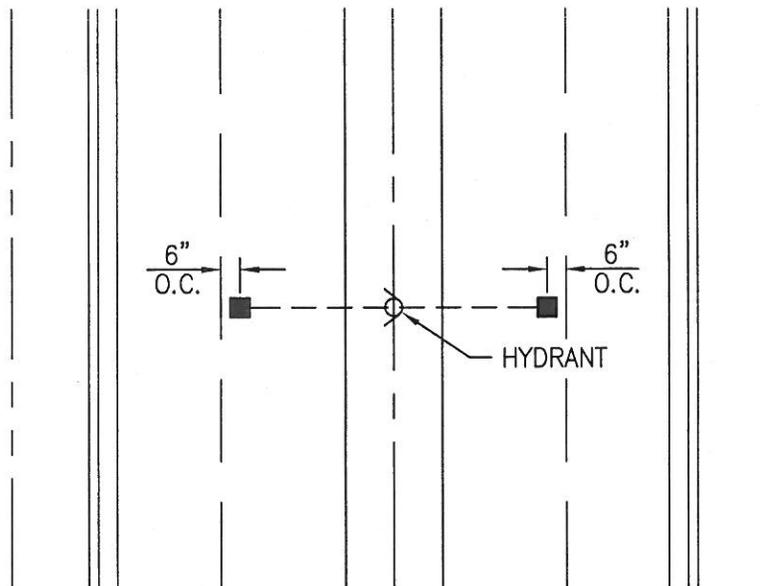
CITY OF FONTANA	
"BLUE DOT" MARKER PLACEMENT	
07/10/06	
STD. PLAN NO. 6001	SHT 3 OF 4

☉ STREET



CASE I
RAISED MEDIAN
(HYDRANT IN PARKWAY)

☉ STREET



CASE II
RAISED MEDIAN
(HYDRANT IN MEDIAN)

NOTE: FOR NOTES REGARDING "BLUE DOT" MARKER PLACEMENT, SEE STD. PLAN 702-0

NOT TO SCALE



APPROVED BY:

Ricardo Sandoval 10.18.06
 CITY ENGINEER DATE

RICARDO SANDOVAL

REVIEWED BY: *DL*

DATE OF LAST REVISION: _____

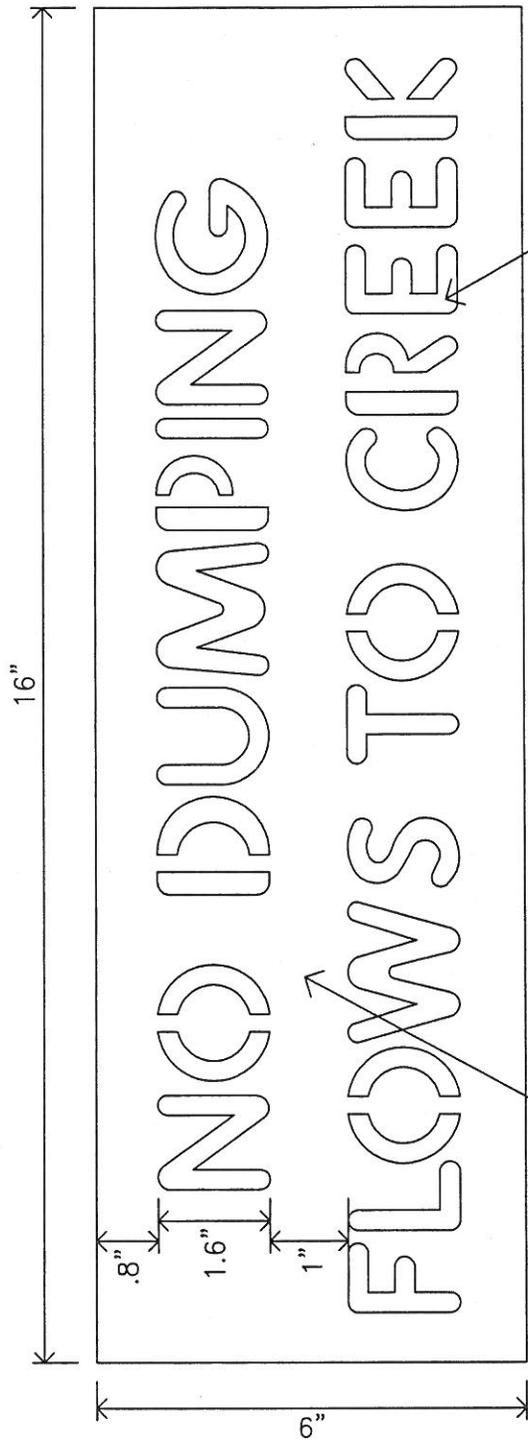
CITY OF FONTANA

"BLUE DOT"
MARKER PLACEMENT

07/10/06

STD. PLAN NO. 6001

SHT 4 OF 4



OPEN AREAS TO
ALLOW CONCRETE
TO SHOW THROUGH

BLUE MATERIAL

PLACEMENT: THERMOPLASTIC SIGNAGE IS TO BE INSTALLED ON THE TOP OF THE CURB APPROXIMATELY 1/2 INCH BEHIND THE CURB FACE. IT SHOULD BE PLACED Laterally CENTERED OVER THE INLET STRUCTURE.

NOTE: SEE PAGE 2 OF 2 FOR MATERIAL SPECIFICATIONS.

NOT TO SCALE



APPROVED BY: *Ricardo Sandoval*
 CITY ENGINEER DATE 10.18.06
 REVIEWED BY: *DG*
 DATE OF LAST REVISION: _____

CITY OF FONTANA	
STORM DRAIN INLET SIGNAGE	
07/10/06	
STD. PLAN NO. 6002	SHT 1 OF 2

STORM DRAIN INLET EDUCATION SIGNAGE

USE: A DURABLE, HIGH SKID RESISTANT, REFLECTIVE PAVEMENT SIGNAGE MATERIAL TO BE ON STORM DRAIN INLETS.

REQUIREMENTS:

1. THE MARKINGS MUST BE A RESILIENT BLUE THERMOPLASTIC, WHEREIN EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS OF 7 (MOBS SCALE). THE MARKINGS MUST BE RESISTANT TO THE DETRIMENTAL EFFECTS OF MOTOR FUELS, LUBRICANTS, HYDRAULIC FLUIDS, ETC. SIGNAGE MUST BE CAPABLE OF BEING AFFIXED TO BITUMINOUS AND/OR PORTLAND CEMENT CONCRETE PAVEMENTS BY THE USE OF THE NORMAL HEAT OF A PROPANE TORCH.
2. THE MARKINGS MUST BE CAPABLE OF CONFORMING TO PAVEMENT CONTOURS, BREAKS AND FAULTS THROUGH THE ACTION OF TRAFFIC AT NORMAL PAVEMENT TEMPERATURES. THE SIGNAGE SHALL HAVE RESEALING CHARACTERISTICS SUCH THAT IT IS CAPABLE OF FUSING WITH ITSELF AND PREVIOUSLY APPLIED THERMOPLASTIC WHEN HEATED WITH A TORCH.
3. THE MARKINGS MUST BE ABLE TO BE APPLIED IN TEMPERATURES DOWN TO 32°F WITHOUT ANY SPECIAL STORAGE, PREHEATING OR TREATMENT OF THE MATERIAL BEFORE APPLICATION.

MATERIAL:

1. MUST BE COMPOSED OF AN ESTER MODIFIED ROSIN RESISTANT TO DEGRADATION BY MOTOR FUELS, LUBRICANTS ETC. IN CONJUNCTION WITH AGGREGATES, PIGMENTS, BINDERS, ABRASIVES, AND GLASS BEADS WHICH HAVE BEEN FACTORY PRODUCED AS A FINISHED PRODUCT, AND MEETS THE REQUIREMENTS OF THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. GRADED GLASS BEADS:
THE MATERIAL MUST CONTAIN A MINIMUM OF THIRTY PERCENT (30%) INTERMIXED GRADED GLASS BEADS BY WEIGHT. THE INTERMIXED BEADS SHALL BE CLEAR AND TRANSPARENT. NOT MORE THAN TWENTY PERCENT (20%) CONSISTS OF IRREGULAR FUSED SPHEROIDS, OR SILICA. THE INDEX OF REFRACTION SHALL NOT BE LESS THAN 1.50. THE MATERIAL MUST HAVE FACTORY APPLIED COATED SURFACE BEADS AND ABRASIVES IN ADDITION TO THE INTERMIXED BEADS AT A RATE OF 1/2LB, (±20%) PER 11 SQ. FT. THE SURFACE BEADS AND ABRASIVES MUST BE APPLIED SO THAT EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS OF 7 (MOHS SCALE).
3. PIGMENTS:
BLUE: SUFFICIENT PIGMENT IS TO BE USED TO ENSURE A COLOR SIMILAR TO FEDERAL HIGHWAY BLUE, AS PER FEDERAL STANDARD.
4. HEATING INDICATORS: THE TOP SURFACE OF THE MATERIAL (SAME SIDE AS THE FACTORY APPLIED SURFACE BEADS) SHALL HAVE REGULARLY SPACED INDENTS. THESE INDENTS SHALL ACT AS A VISUAL CUE DURING APPLICATION THAT THE MATERIAL HAS REACHED A MOLTEN STATE SO SATISFACTORY ADHESION AND PROPER BEAD EMBEDMENT HAS BEEN ACHIEVED AND A POST-APPLICATION VISUAL CUE THAT THE INSTALLATION PROCEDURES HAVE BEEN FOLLOWED.
5. SKID RESISTANCE: THE SURFACE OF THE PREFORMED REFLECTIVE MARKING MATERIAL, WHEREIN EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS OF 1 (MOBS SCALE), SHALL UPON APPLICATION PROVIDE A MINIMUM SKID RESISTANCE VALUE OF 60 BPN WHEN TESTED ACCORDING TO ASTM: E303.
6. THICKNESS: THE MATERIAL MUST BE SUPPLIED AT A MINIMUM, THICKNESS OF 90 MILS OR 125 MILS.
7. REFLECTIVITY: THE PERFORMED REFLECTIVE MARKING MATERIALS UPON APPLICATION SHALL EXHIBIT ADEQUATE NIGHTTIME REFLECTIVITY.
8. ENVIRONMENTAL RESISTANCE: THE MATERIAL MUST BE RESISTANT TO DETERIORATION DUE TO EXPOSURE TO SUNLIGHT, WATER, SALT OR ADVERSE WEATHER CONDITIONS AND IMPERVIOUS TO OIL AND GASOLINE.
9. ABRASIVES: THE MATERIAL MUST HAVE FACTORY APPLIED SURFACE ABRASIVES, WHEREIN EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS 7 (MOBS SCALE).
10. THE PREFORMED SIGNAGE SHALL MEET STATE SPECIFICATIONS AND BE APPROVED FOR USE BY THE CITY OF FONTANA.

TECHNICAL SERVICES: THE SUCCESSFUL BIDDER SHALL PROVIDE TECHNICAL SERVICES AS REQUIRED.

PACKAGING: THE PREFORMED SIGNAGE SHALL BE PLACED IN PROTECTIVE FILM WITH CARDBOARD STIFFENERS WHERE NECESSARY TO PREVENT DAMAGE IN TRANSIT. THE CARTONS IN WHICH PACKED SHALL BE NON-RETURNABLE AND SHALL NOT EXCEED 40" IN LENGTH AND 25" IN WIDTH, AND BE LABELED FOR EASE OF IDENTIFICATION. THE WEIGHT OF THE INDIVIDUAL CARTON MUST NOT EXCEED SEVENTY (70) POUNDS. A PROTECTIVE FILM MUST BE APPLIED AROUND THE BOX IN ORDER TO PROTECT THE MATERIAL FROM RAIN OR PREMATURE AGING.

APPLICATION: THE MATERIALS SHALL BE APPLIED USING THE PROPANE TORCH METHOD RECOMMENDED BY THE MANUFACTURER. THE MATERIAL MUST BE ABLE TO BE APPLIED AT AMBIENT AND ROAD TEMPERATURES DOWN TO 32°F WITHOUT ANY PREHEATING OF THE PAVEMENT TO A SPECIFIC TEMPERATURE. THE MATERIAL MUST BE ABLE TO BE APPLIED WITHOUT THE USE OF A THERMOMETER. THE PAVEMENT SHALL BE CLEAN, DRY AND FREE OF DEBRIS. SUPPLIER MUST ENCLOSE APPLICATION INSTRUCTIONS WITH EACH BOX/PACKAGE.



APPROVED BY:

Ricardo Sandoval 10.18.06

CITY ENGINEER DATE

RICARDO SANDOVAL

REVIEWED BY: *[Signature]*

DATE OF LAST REVISION: _____

CITY OF FONTANA

**STORM DRAIN
INLET SIGNAGE**

07/10/06

STD. PLAN NO. **6002**

SHT **2** OF **2**