

ORDINANCE NO. 3540

AN ORDINANCE OF THE CITY OF MESQUITE, TEXAS, AMENDING THE MESQUITE SUBDIVISION ORDINANCE ADOPTED ON SEPTEMBER 4, 1973, BY DELETING PARAGRAPH (14) TO CHAPTER A OF ARTICLE V IN ITS ENTIRETY AND ADDING A NEW PARAGRAPH (14) TO CHAPTER A OF ARTICLE V THEREBY REQUIRING THE DEVELOPER TO INSTALL ALL NEW DEVELOPMENT STREET SIGNAGE; PROVIDING FOR A REPEALER CLAUSE; PROVIDING FOR A SEVERABILITY CLAUSE; AND DECLARING AN EMERGENCY.

WHEREAS, in order that the intended purposes of the Subdivision Ordinance are best served, it has been determined necessary to amend certain language of said ordinance; and

WHEREAS, the City Council did give public notice and did hold a public hearing regarding the proposed amendment.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MESQUITE, TEXAS:

SECTION 1. That the Mesquite Subdivision Ordinance adopted on September 4, 1973, be and the same is hereby amended by deleting Paragraph (14) to Chapter A of Article V in its entirety and adding a new Paragraph (14) to Chapter A of Article V to read as follows, said Ordinance in all other respects to remain in full force and effect:

APPENDIX B

SUBDIVISIONS

ARTICLE V. GENERAL REQUIREMENTS AND DESIGN STANDARDS

A. Streets.

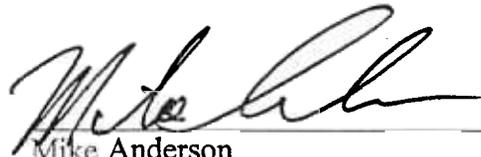
- (14) Street signs, including street name, regulatory and warning signs shall be furnished and installed by the developer of the subdivision in accordance with city specifications. The developer shall meet with the city to ascertain the required number and location of all street signs. The developer shall show the type and location of the required street signs on the engineering plans for the subdivision. No building permit will be issued for the subdivision until all street signs are installed in accordance with the approved plans. Until such time as the subdivision or, if applicable, the subdivision phase, is built out, repair, maintenance and replacement of street signs that are damaged or removed from the subdivision shall be the responsibility of the developer. Stop signs shall be repaired or replaced within two (2) hours of notification. All other signs must be reinstalled within five (5) calendar days of notification.

SECTION 2. That all ordinances or portions thereof in conflict with the provisions of this ordinance, to the extent of such conflict, are hereby repealed. To the extent that such ordinances or portions thereof are not in conflict herewith, the same shall remain in full force and effect.

SECTION 3. That should any word, sentence, clause, paragraph or provision of this ordinance be held to be invalid or unconstitutional, the validity of the remaining provisions of this ordinance shall not be affected and shall remain in full force and effect.

SECTION 4. That to insure the intended purposes of the Subdivision Ordinance are best served, it has been determined necessary to amend certain language of said ordinance, creating an urgency and an emergency for the preservation of the public health, safety and welfare, and requiring that this ordinance shall take effect immediately from and after its passage and publication of said ordinance, as the law in such cases provides.

DULY PASSED AND APPROVED by the City Council of the City of Mesquite, Texas, on the 4th day of November, 2002.



Mike Anderson
Mayor

ATTEST:

APPROVED:



Ellen Williams
City Secretary



B. J. Smith
City Attorney

Section 6 – New Development Signage

6.1 General.

- 6.1.1 The developers of new residential and commercial developments are required to install all regulatory, warning, and guide signs at the locations designated by the City. All signage shall be installed in accordance with the current *Texas Manual on Uniform Traffic Control Devices* (TMUTCD).
- 6.1.2 Developers have the option of using one of two styles of sign post and hardware. The Standard sign post and hardware are described below. Ornamental sign posts and hardware requirements are described in Section 6.7.

6.2 Design.

- 6.2.1 Sign face layouts for regulatory and warning signs shall conform to *Standard Highway Sign Designs for Texas*, latest edition. Sizes of regulatory and warning signs shall conform to the dimensions listed as “Standard” in Appendix A, Signing Listing, in the TMUTCD, unless otherwise directed in writing by the City.
- 6.2.3 Sign face layouts for guide signs, except street name signs, shall use the principles of sign face layout contained in the TMUTCD and *Standard Highway Sign Designs for Texas*. All guide sign face layouts shall be approved by the City based upon submission of sign layout drawings to the Traffic Engineering Division. The sign layout drawings shall show the color and dimensions of all sign face legend components including background color, legend color, borders, symbols, letter size and style. Sizes of guide signs shall be approved by the City based upon submission of sign layout drawings to the Traffic Engineering Division. Street name sign face layouts shall conform to Standard Construction Details – Signage – sheet T-4. Street name signs shall either be 6-inches tall by a variable width, or 9-inches tall by a variable width. The variable width of either size of street name sign shall not exceed 48-inches. Nine-inch tall street name sign assemblies shall be installed at all intersections that include one street that is listed as an Arterial or Secondary on the City’s Adopted Thoroughfare Plan and at other intersections designated in writing by the City. Six-inch tall street name signs shall be installed at all intersections where all entering streets are classified as either local or collector streets by the City, unless otherwise directed in writing by the City.
- 6.2.7 Letter height to stroke width and letter spacing for all guide signs, including street name signs, shall equal or exceed standards for the Federal Highway Administration Series C alphabet, as contained in the Appendix of *Standard Highway Sign Designs for Texas*, unless otherwise directed by the City in writing.

6.3 Sign Materials.

- 6.3.1 Sign materials shall conform to Texas Department of Transportation (TxDOT) Item 636, Aluminum Signs (Type A) except as noted below.
- 6.3.2 Aluminum sign blank substrates for regulatory, warning, and guide signs except 6-inch tall street name signs shall be 0.080 inches thick.
- 6.3.3 Aluminum sign blank substrates for 6-inch tall street name signs shall be extruded aluminum. The cross-section of the sign blade shall consist of base, web, and cap sections. The base of the sign blade shall nominally be $\frac{1}{4}$ inch thick by $\frac{7}{8}$ inch tall. The web of the sign blade shall consist of a flat section 0.080 inches thick by $4\frac{1}{4}$ inches tall. The cap of the sign blade shall nominally be $\frac{1}{4}$ inch thick by $\frac{7}{8}$ inch tall.
- 6.3.4 Retroreflective sheeting for regulatory, warning and 9-inch tall street name signs shall be Type III, high intensity, as defined by ASTM D 4956-95.
- 6.3.5 Retroreflective sheeting for guide signs and 6-inch tall street name signs shall be Type I, medium-intensity (Engineer Grade), as defined by ASTM D 4956-95.
- 6.3.6 Post top extruded street name sign caps used to secure 6-inch tall street name signs shall be a minimum of $3\frac{1}{2}$ inch cast aluminum units with stainless steel set screws.
- 6.3.7 Extruded street name sign blade crosses used to secure six-inch tall street name signs to the top of six-inch tall street name signs shall be a minimum of $5\frac{1}{4}$ inch cast aluminum units with stainless steel set screws.
- 6.3.8 Cantilever brackets for securing extruded and flat street name signs to street light poles shall be a minimum of $14\frac{1}{2}$ inch cast aluminum units with stainless steel set screws.
- 6.3.9 Stainless steel banding for attaching cantilever brackets to street light poles shall be $\frac{3}{4}$ inch wide by 0.030 inches thick.
- 6.3.10 Rivets for attaching signs to sign posts shall be $\frac{3}{8}$ inch zinc plated steel blind drive rivets.

6.4 Sign Post Materials.

- 6.4.1 The breakaway sign-support system (BS3) used by the City of Mesquite consists of dimensioned square section tubing secured together in a telescoped array. The system consists of three 12-gauge steel components: a 36-inch long anchor post of 2-inch by 2-inch O.D. square tubing, an 18-inch long anchor sleeve of $2\frac{1}{4}$ inch by $2\frac{1}{4}$ inch O.D. square tubing, and a sign post of $1\frac{3}{4}$ inch by $1\frac{3}{4}$ inch O.D. square tubing. The three components must be manufactured to tolerances that ensure telescoping of sections with minimal internal clearances that preclude excessive play between sections of the assembled support system.
- 6.4.2 Sign posts, anchor posts and anchor sleeves shall be roll-formed from 12 gauge (0.105") strip steel per ASTM Spec. #A446, Grade A. Sign posts, anchor posts and anchor sleeves shall be corner induction welded and externally scarfed so that neither weld nor flash interferes with the telescoping properties.

The finish on all sign posts, anchor posts and anchor sleeves shall be in-line, hot dip zinc galvanized with 1.25 ounces of coating conforming to ASTM A-525. For strips that are pre-galvanized when roll formed from ASTM Spec. #A446, Grade A steel, corner welds should be zinc coated after the scarfing operation.

Minimum diameter of sign post, anchor post and anchor sleeve holes shall be 7/16 inches plus a tolerance of one sixty-fourth inch. Holes shall be on exact one-inch centers along the longitudinal centerline of each of the four faces of each post component. Thus, each set of four holes on respective post component faces will be in exact lateral alignment, at each one-inch increment, longitudinally along the centerline length. The centers of the end holes in each post component shall be exactly one-half (1/2) inch from the post component end.

6.4.5 Sign Post, Anchor Posts and Anchor Sleeves Tolerances shall be as follows:

6.4.5.1 The outside tolerance at all sides, at corners, shall be plus or minus 0.010 inches-per respective specified (O.D.) post component size.

6.4.5.2 The convexity and concavity tolerance measured in the center of each post component face shall be plus or minus 0.010 inches.

6.4.5.3 The squareness tolerance of each post component shall be plus or minus 0.014 inches.

6.4.5.4 The amount of twist permitted in 3 feet of post component length shall be 0.062 inches.

6.4.5.5 The straightness tolerance shall be 1/16 inch per 3 feet of post component length.

6.4.5.6 Outside corner radii shall be three sixteenths of one inch, plus or minus one sixteenth of one inch.

6.4.5.7 Respective specified length tolerance shall be plus or minus ¼ inch.

6.4.6 Corner bolts, flat washers, and nuts used to secure the 1 ¾ inch post to the base shall be 5/16 inches in diameter.

Corner bolts shall conform to the requirements of ASTM A-307. Nuts shall conform to the requirements of ASTM A-563, Grade A. Corner bolts, flat washers, and nuts used to secure the 1 ¾ inch post to the base shall be electrogalvanized steel in accordance with the requirements of ASTM B-633 Type III SC 1.

6.5 Sign Fabrication.

6.5.1 Sign fabrication shall conform to Texas Department of Transportation (TxDOT) Item 636, Aluminum Signs (Type A) except as noted below.

6.5.2 The 9-inch tall street name sign assembly consists of two 9-inch tall street name signs separated by the sign post and spacers. Fabrication of 9-inch tall street name sign faces shall include bonding the white Type III high

intensity retroreflective sheeting to the sign substrate on one side of the substrate only and overlaying the white Type III high intensity retroreflective sheeting with a green transparent EC type or ESM type film from which the sign legend has been removed.

Fabrication of 6-inch tall street name sign faces shall include bonding the green Type I medium-intensity retroreflective sheeting to the sign substrate on both sides of the substrate and bonding the white Type I medium-intensity retroreflective sheeting legend to the surface of the green Type I medium-intensity retroreflective sheeting.

All letters, numbers, and symbols shall have clean sharp edges and be squarely aligned with the top, bottom, and edges of the sign.

A manufacturer's warranty shall be provided to the City that warrants the sign against delamination of the retroreflective sheeting material and loss of retroreflectivity for seven (7) years.

6.6 Installation.

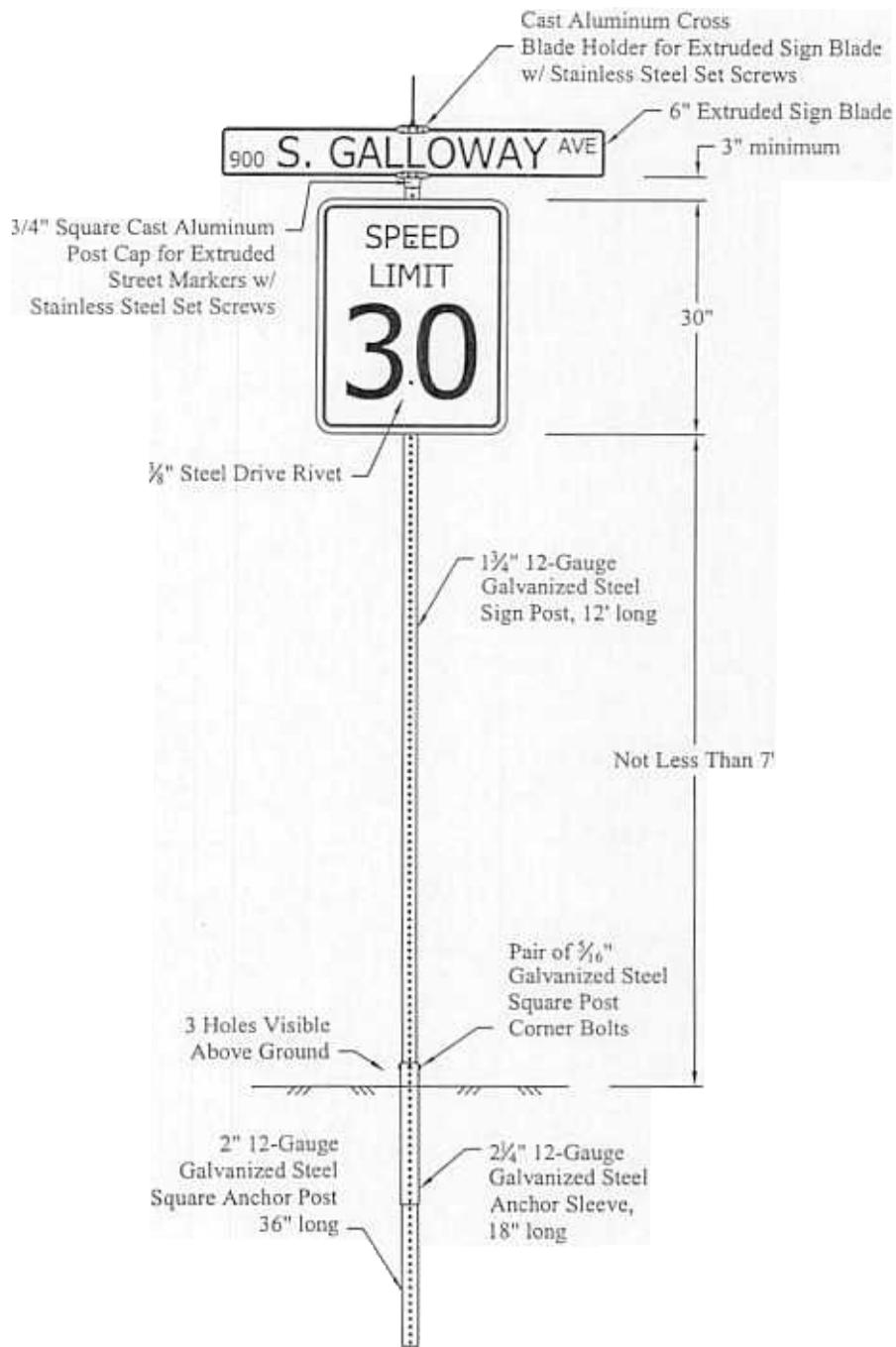
- 6.6.1 The sign post anchor post and anchor sleeve shall be driven into the ground as an assembly using an approved driving cap. No modifications, such as creating a point or taper, shall be made to the ends of the anchor post or anchor sleeve. No deformation of the top of the anchor post or anchor sleeve shall be allowed. The anchor post and anchor sleeve shall be driven into the ground until no more than 4 inches of the assembly remains above the ground level; however, at least three holes shall remain visible above ground level for attachment of the 1 ¾ inch sign post using two corner bolts. Standard Construction Details – Signage – sheets T-1 and T-2 depict proper sign assembly and installation.
- 6.6.2 Signs fabricated with medium-intensity (Engineer Grade) retroreflective sheeting shall be fastened to the sign post with 3/8 inch diameter zinc plated steel blind drive rivets.
- 6.6.3 Signs fabricated with high intensity retroreflective sheeting shall be fastened to the sign post with 3/8 inch diameter zinc plated steel blind drive rivets. A 3/8-inch I.D., 7/8-inch O.D. nylon or fiber washer shall be inserted between the flat rivet bearing surface and the surface of the retroreflective sheeting.
- 6.6.4 Post top extruded sign blade caps shall be used to secure 6-inch tall street name signs to the top of the sign post. Extruded sign blade crosses shall be used to secure 6-inch tall street name signs to the top of 6-inch tall street name signs to complete the 6-inch street name sign assembly.
- 6.6.5 Each 9-inch tall street name sign blade shall be affixed to the sign post with 3/8 inch diameter zinc plated steel blind drive rivets. A 3/8-inch I.D., 7/8-inch O.D. nylon or fiber washer shall be inserted between the flat rivet bearing surface and the surface of the retroreflective sheeting. The ends of each 9-inch tall street name sign blade shall be bolted together using a ½ inch O.D. non-ferrous spacer, a 5/16-inch stainless steel round

head machine screw with a self-locking nut, and two nylon washers to make a complete 9-inch tall street name sign assembly.

- 6.6.6 Street name signs may be affixed to streetlight poles with the approval of Oncor and the City. Street name signs shall be attached to cast aluminum cantilever brackets with stainless steel set screws, and the cantilever bracket shall be affixed to streetlight pole using $\frac{3}{4}$ inch stainless steel banding. When street name signs are affixed to streetlight poles, all street name signs at the intersection shall be affixed to the streetlight pole. Pole-mounted and post-mounted street name signs shall not be used on the same intersection corner.

6.7 Ornamental Signage.

- 6.7.1 Standards for ornamental signage are determined on a case by case basis. In general, ornamental signage shall be compatible with Oncor street light poles and luminaires.
- 6.7.2 Standard Construction Details, Signage, sheets T-3 depicts proper sign placement on street light poles and free standing poles.



Public Works

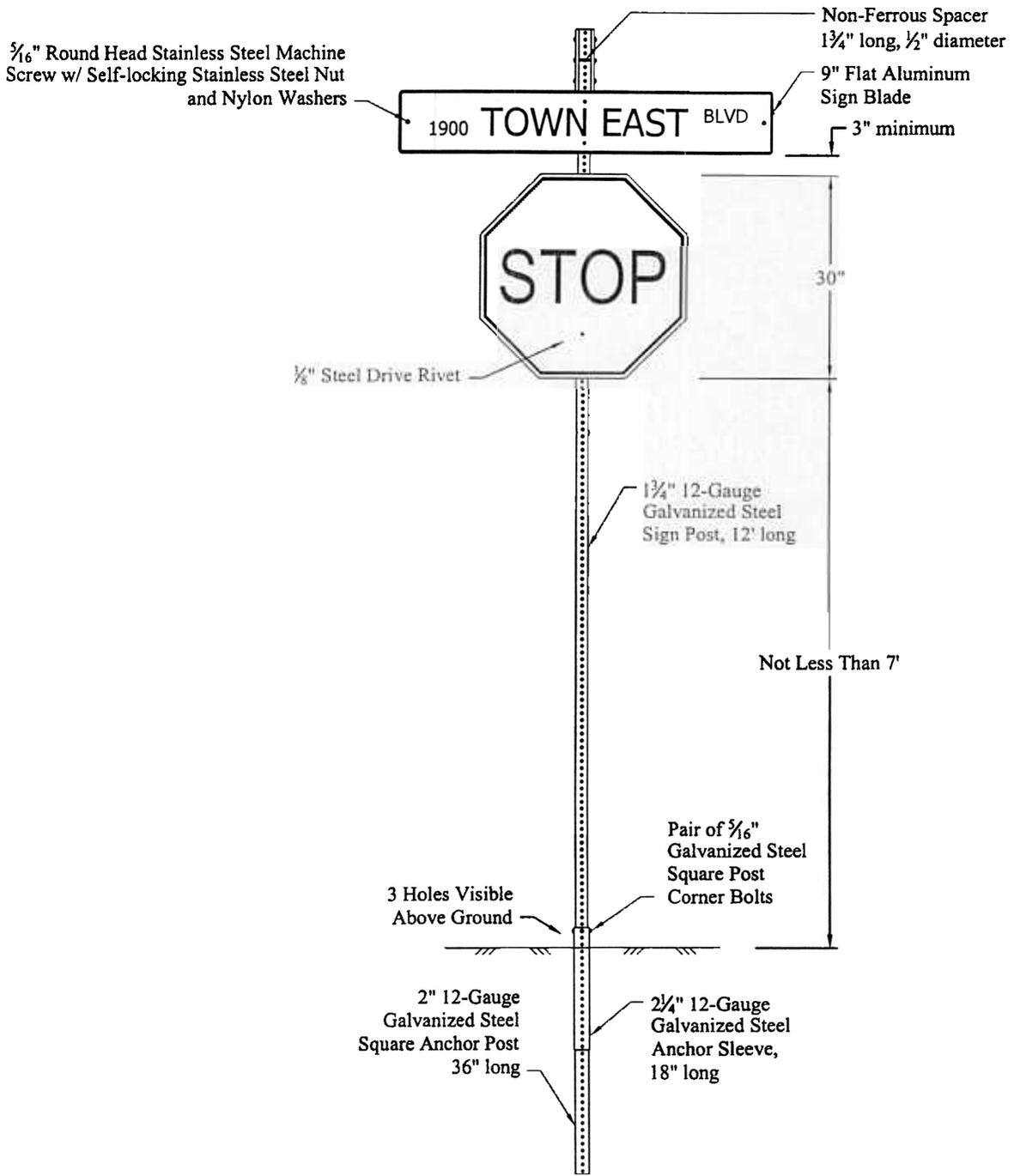
6" Extruded Sign Blade

Sheet 1 of 1

Standard Construction Details Signage

Date: Nov. 12, 2002

Sheet
T-1



Public Works

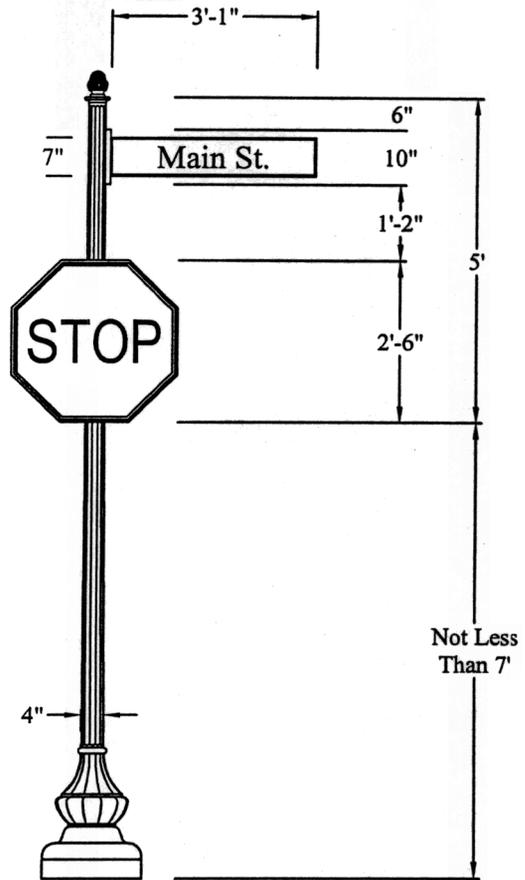
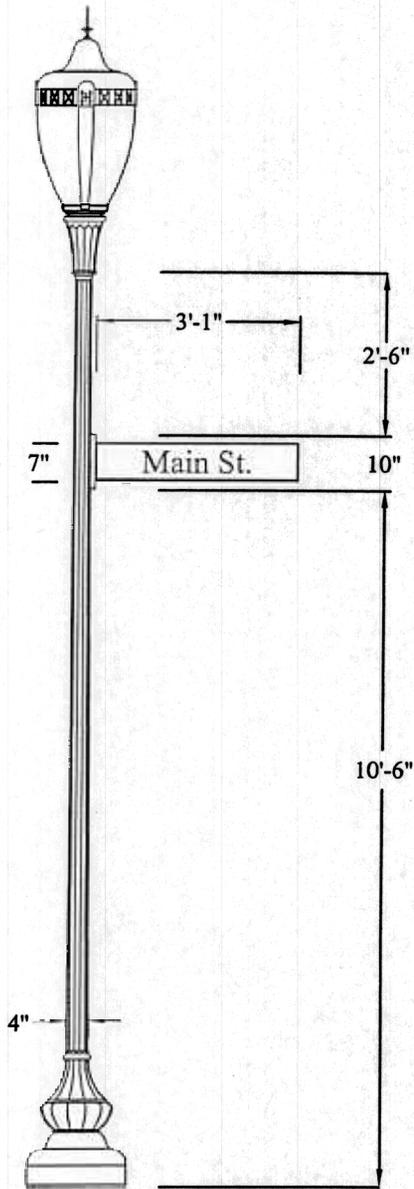
9" Flat Sign Blade

Sheet 1 of 1

Standard Construction Details
Signage

Date: Nov. 12, 2002

Sheet
T-2



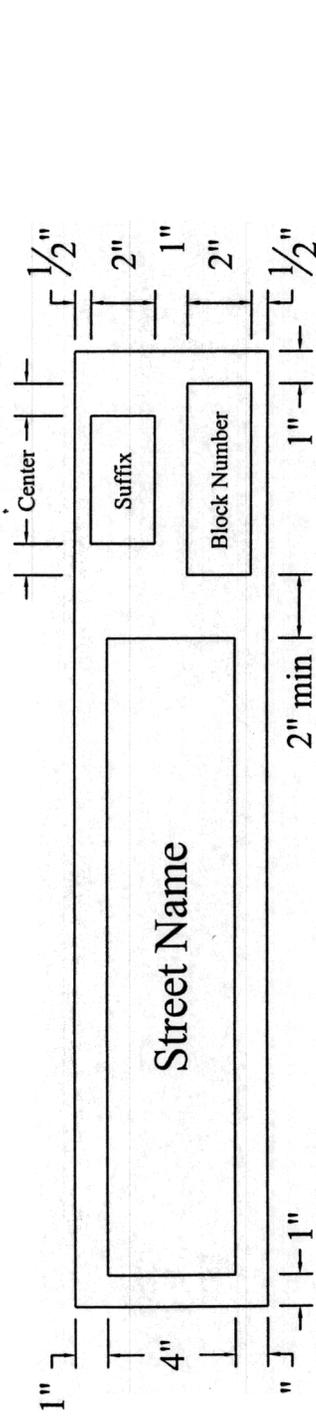
Public Works

ORNAMENTAL SIGNAGE AND STREET LIGHTING

STANDARD CONSTRUCTION DETAILS
SIGNAGE

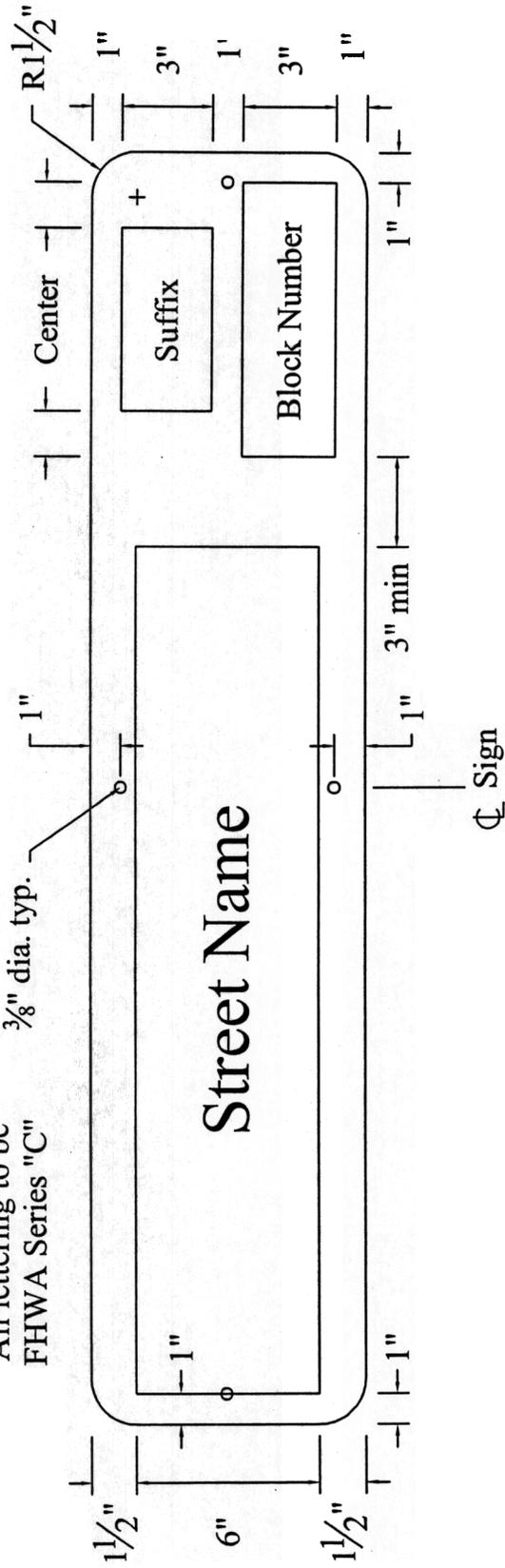
DATE: 07/2004

SHEET: T-3



All lettering to be
FHWA Series "C"

3/8" dia. typ.



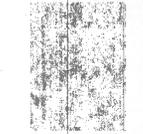
Standard Construction Details
Signage

Date: Dec. 30, 2002

Sheet
T-4

Street Sign Layout

Sheet 1 of 1



Public
Works



MESQUITE
TEXAS