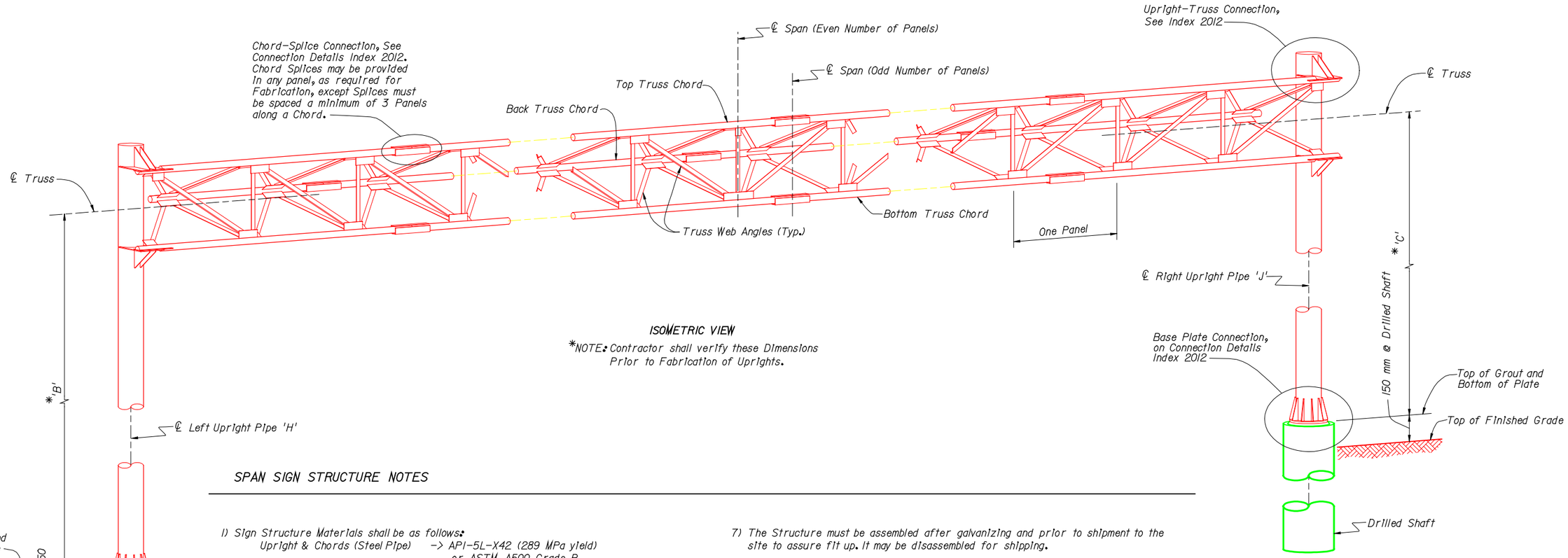
FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			



ISOMETRIC VIEW

*NOTE: Contractor shall verify these Dimensions Prior to Fabrication of Uprights.

SPAN SIGN STRUCTURE NOTES

1) Sign Structure Materials shall be as follows:

Upright & Chords (Steel Pipe)	-> API-5L-X42 (289 MPa yield) or ASTM A500 Grade B
Webs and Splices (Steel Angles)	-> ASTM A709M Grade 250
Steel Plates	-> ASTM A709M Grade 250
Weld Metal	-> E70XX
Bolts (except Anchor Bolts)	-> ASTM F568 Class 4.6 (see Note)
Anchor Bolts	-> ASTM F1554 Grade 380
Nuts for Anchor Bolts	-> ASTM A563M Class 8S or 8S3
Washers for Anchor Bolts	-> ASTM F436M Type 1

Note - All Bolts (except Anchor Bolts) shall have Single Self-Locking Nuts or, in lieu thereof, regular nuts with a galvanized 'Palnut' locking nut manufactured by TRW, installed in accordance with the manufacturer's recommendations. Anchor Bolts shall have Double nuts.

2) Reinforcing Steel shall be ASTM A615M-96, Grade 420.

3) Concrete shall be Class IV (Drilled Shaft) with a minimum 28-day compressive strength of 28 MPa for all environmental classifications.

4) Grout shall have a minimum 28-day compressive strength of 35 MPa and shall meet the requirements of Special Provision Section 934.

5) All welding shall conform to American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition)

6) All Steel Items shall be galvanized as follows:

All Nuts, Bolts and Washers	-> ASTM A153 Class C or D depending on size
All other steel items	-> ASTM A123

7) The Structure must be assembled after galvanizing and prior to shipment to the site to assure fit up. It may be disassembled for shipping.

8) The Design Wind Speed is in conformance with the "Structures Design Guidelines" (current edition) with a 30 percent gust factor.

9) Alternate Designs for this Structure are not allowed.

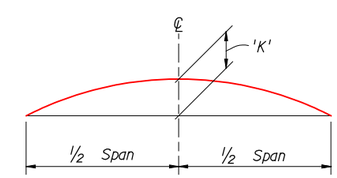
10) Shop Drawings for this Structure are required and fabrication shall not begin until these Shop Drawings are approved. Shop Drawings shall include the Contractor's field verification of all Upright heights and foundation elevations necessary to insure minimum vertical clearances as per traffic plans. Shop Drawings shall also include anchor bolt orientation with respect to ℄ Truss and the direction of traffic.

11) The foundation for the Sign Structure shall be constructed in accordance with Section 455 of the Specifications except that no payment for the foundation shall be made under Section 455. The cost of providing the foundation shall be included in the pay item for providing the complete Sign Structure. Payment for any incidental items incurred in furnishing and installing this Sign Structure shall be included in the pay item for providing the complete Sign Structure.

12) Except for Anchor Bolts, all bolt hole diameters shall be equal to the bolt diameter plus 2 mm, prior to galvanizing. Hole diameters for Anchor Bolts shall not exceed the bolt diameter plus 13 mm.

13) See Elevation Drawing for size and location of Sign Panel. Sign Panels shall be aluminum.

14) Provide a parabolic camber with the maximum upward deflection as called for on the Camber Diagram. Indicate on the Shop Drawings the method to be used to provide required camber.



CAMBER DIAGRAM

NOTE: See Roadway Index Drawing 17505 for information on Fabrication and Installation of lighting.

NOTE: Work this Standard with Structures Standard Index Nos. 2012, 2013, and S-2014.

NOTE: See 'Tables Of Sign Structure Variables' for referenced dimensions, sizes and quantities.

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DATE "" TIME

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
			97R		

	NAMES	DATES
DRAWN BY	DCP	6-89
CHECKED BY	MHA	6-89
DESIGNED BY	MHA	6-89
CHECKED BY	REN	6-89
APPROVED BY	REN	

ENGINEER OF RECORD:
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LOGO:

SEAL:

FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN OFFICE

ROAD NO.	COUNTY	PROJECT NO.

SHEET TITLE: SPAN SIGN STRUCTURE NOTES, CAMBER, ISOMETRIC VIEW

PROJECT NAME:

DRAWING NO. 1 of 1

INDEX NO. 2011