Index 11320 Span Sign Structure (Rev. 11/16)

Design Criteria

AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (LRFDLTS-1); ***Structures Manual*** Volume 3, FDOT Modifications to LRFDLTS-1; ***Structures Manual*** Introduction, I.6 References; ***Structures Design Guidelines (SDG)***.

Design Assumptions and Limitations

The maximum span length of Span Sign Structures is 220 feet. See the ***PPM***, Volume 1, Chapter 29 for additional information.

See notes on the ***Design Standard***, ***Structures Manual***, Volume 3 and ***SDG***.

Use this ***Design Standard*** in conjunction with the FDOT Span Overhead Sign Program and Index 11300.

Plan Content Requirements

See ***PPM*** Volume 2, Chapter 23.

Complete the Span Sign Structures Data Table and include it in the plans. Much of the data for inclusion in the table may be found in the FDOT Span Overhead Sign Program output. Include Design Wind Speed and soils information. See Introduction I.3 for more information regarding use of Data Tables.

SPAN SIGN STRUCTURES DATA TABLE — Table Date 01-01-11

SIGN#	STATION	DIMENSIONS			PNLS	MEMBER SIZES						SPLICE		
		A	B	C	D	E	F (CHORD)	G (WEB)	H (LEFT UPRIGHT)	J (RIGHT UPRIGHT)	K (CAMBER)	SA	SB	SC
		ft	ft	ft	#	in	O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	O. D. x Wall Thk. (in)	in	Angle (in)	#	in

SPAN SIGN STRUCTURES DATA TABLE (CONT.) — Table Date 01-01-11

SIGN#	ALTERNATE SPLICE						GUSSET PLATES																	
	PA	PB	PC	PD	PE	PF	GA	GB	GC		GD		GE		GF		GG		GH		GJ		GK	GL
	in	in	in	in	in	#	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	in

SPAN SIGN STRUCTURES DATA TABLE (CONT.) — Table Date 01-01-11

SIGN#	LEFT UPRIGHT CONNECTION								RIGHT UPRIGHT CONNECTION							
	LA	LB	LC	LD	LE	LF	LG	LH	RA	RB	RC	RD	RE	RF	RG	RH
	in	#	in	in	in	in	in	in	in	#	in	in	in	in	in	in

SPAN SIGN STRUCTURES DATA TABLE (CONT.) — Table Date 01-01-11

SIGN#	LEFT BASE CONNECTION										RIGHT BASE CONNECTION									
	BA	BB	BC	BD	BE		BF	BG	BH	BJ	CA	CB	CC	CD	CE		CF	CG	CH	CJ
	in	#	in	in	ft	in	in	in	in	in	in	#	in	in	ft	in	in	in	in	in

SPAN SIGN STRUCTURES DATA TABLE (CONT.) — Table Date 07-01-14

SIGN#	LEFT DRILLED SHAFT							RIGHT DRILLED SHAFT							
	DA		DB		DC	DD	DE	DF	FA		FB		FC	FD	FE	FF
	ft	in	ft	in	# / size	#	in	in	ft	in	ft	in	# / size	#	in	in

NOTES [Notes Date 7-01-13]:
1. Work these Data Tables with Index 11320.
2. Design Wind Speed = ___ mph
3. Upright wall thickness given is a minimum dimension.
4. Erection is the Contractor's responsibility. To facilitate erection, the Contractor should consider using two vertical lift points, each located near a panel point approximately 20 to 25% of the truss length from each end.
5. 'DC' and 'FC' shall include quantity and size of reinforcing steel.

FOUNDATION NOTES [Notes Date 7-01-12]:
1. Design based on Borings taken sealed by _____.
2. Assumptions and Values used in design:
   Soil Type _____
   Soil Layer Thickness = ___ ft.
   Soil Friction Angle = ___ deg.
   Soil Weight = ___ pcf
   Design Water Table is ___ ft. below surface

Payment

Item number	Item description	Unit Measure
700-4-ABC	Overhead Static Sign Structure	EA
700-3-ABB	Sign Panel	EA