

## Index 700-041 Span Sign Structure

### Design Criteria

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

### Design Assumptions and Limitations

The maximum span length of Span Sign Structures is 220 feet. See the notes on **Index 700-041**, **FDM 230**, **FDM 261**, **Structures Manual (SM)**, Volume 3 and the **SDG** for additional information.

Use **Index 700-041** in conjunction with **Index 700-030** and the **Span Sign-LRFD v1.0** Mathcad 15 computer program located on the **Structures Design Programs Library** website.

### Plan Content Requirements

See the **FDM**, Chapter 325.

Complete the “*Span Sign Structures Data Table*”. Much of the data for inclusion in the table may be found in the **Span Sign-LRFD v1.0** output. Include Design Wind Speed and soils information.

**Span Sign Structures Data Table:**

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	

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

- NOTES [Notes Date 7-01-13]:
1. Work these Data Tables with Index 700-041.
  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.

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	ft	in	in	in	in	

- 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

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	

## Payment

Item number	Item Description	Unit Measure
700-4-12C	Overhead Static Sign Structure (F&I, Span)	EA

See **Standard Plans Instruction** for **Index 700-030** for sign panel.

See the **BOE** and **Specification 700** for additional information on payment, pay item use and compensation.