



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC OPERATIONS DIVISION**  
SUITE 1200 JAMES K. POLK BUILDING  
505 DEADERICK STREET  
NASHVILLE, TENNESSEE 37243-0338  
(615) 741-5017

**JOHN C. SCHROER**  
COMMISSIONER

**BILL HASLAM**  
GOVERNOR

**TRAFFIC OPERATIONS MEMORANDUM NO. 1702**

**Regarding TDOT No Longer Supporting Pole Designer Software**

**Effective February 9, 2018 Letting (November 29, 2017 Turn-in)**, the use of Pole Designer Software will no longer be supported by TDOT. The signal pole foundation design, including the moment capacity for signal poles and the minimum breaking strength for span wire assemblies, will now be the responsibility of the contractor. As a result, this design information will no longer be included in the construction plans. In addition, signal pole foundation design information such as depth and diameter will not be included in the plans.

In lieu of this signal pole foundation design information being removed from the construction plans, a separate table of signal pole information shall be included in the plans for each signalized intersection. Examples of the required signal pole table, presenting the minimum information required for both span wire assembly and mast arm supports, are shown in Attachment A. In addition to including the appropriate signal pole table in the construction plans, the following pay item footnote will be required for signal poles (i.e. 730-23.xx):

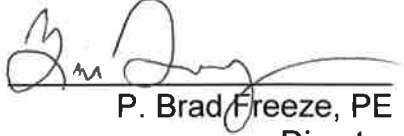
“This bid item includes the cost of the foundation design and, if necessary, the soil exploration required for the design of the signal pole foundation.”

The following Span Wire Assembly Pay Items will no longer be used.

<b><u>Item Number</u></b>	<b><u>Item Description (Current)</u></b>	<b><u>U/M</u></b>
730-09.01	SPAN WIRE ASSEMBLY(____ LBS.MIN.BRK STRENGTH)	L.F.
730-09.02	SPAN WIRE ASSEMBLY(____ LBS.MIN.BRK STRENGTH)	L.F.
730-09.03	SPAN WIRE ASSEMBLY(____ LBS.MIN.BRK STRENGTH)	L.F.
730-09.04	SPAN WIRE ASSEMBLY(____ LBS.MIN.BRK STRENGTH)	L.F.
730-09.05	SPAN WIRE ASSEMBLY(____ LBS.MIN.BRK STRENGTH)	L.F.
730-09.06	SPAN WIRE ASSEMBLY(____ LBS.MIN.BRK STRENGTH)	L.F.
730-09.07	SPAN WIRE ASSEMBLY(____ LBS.MIN.BRK STRENGTH)	L.F.
730-09.08	SPAN WIRE ASSEMBLY(____ LBS.MIN.BRK STRENGTH)	L.F.

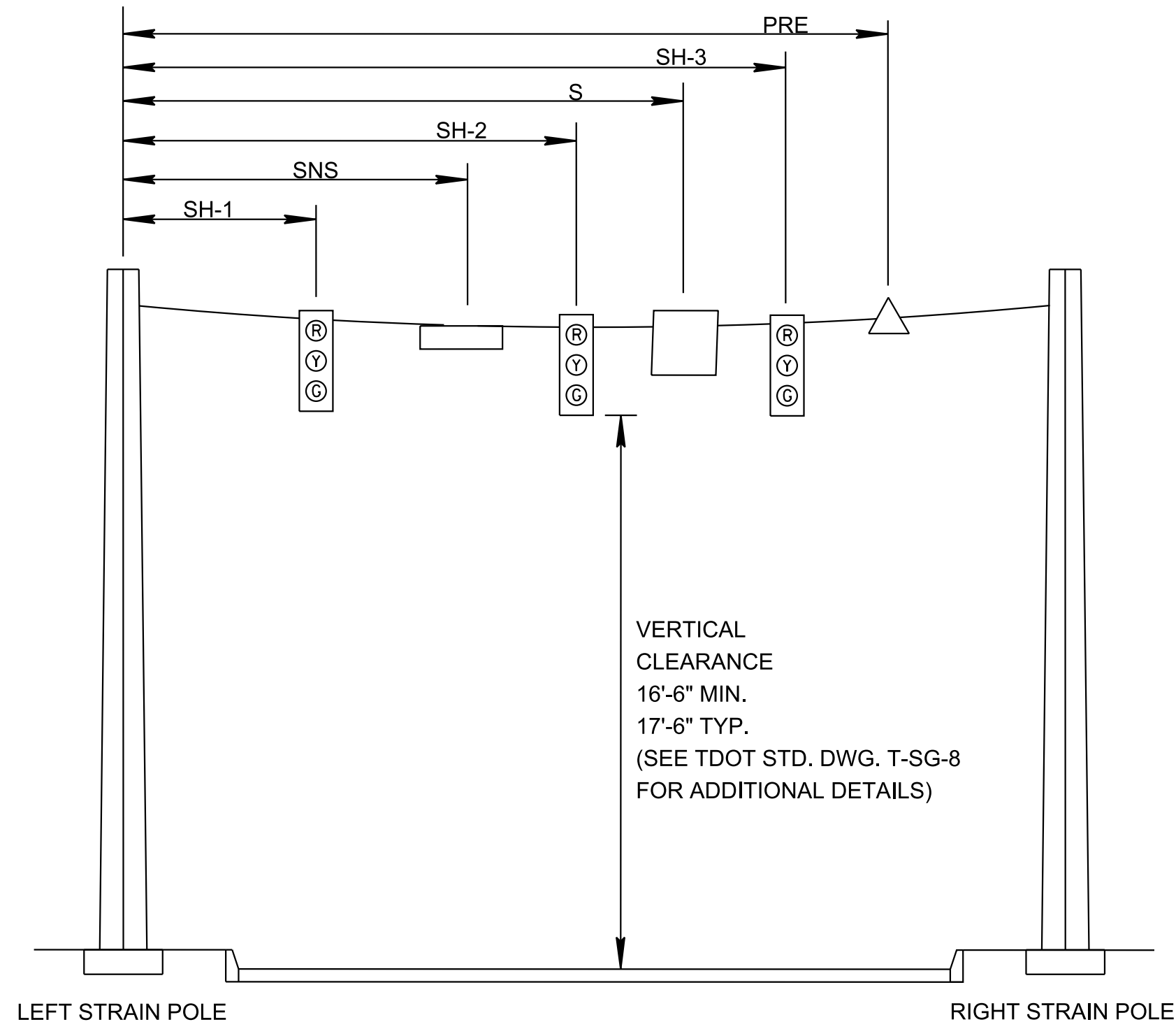
The following new Span Wire Assembly Pay Items will now be used in lieu of the previous pay items.

<u>Item Number</u>	<u>Item Description (New)</u>	<u>U/M</u>
730-09.20	SPAN WIRE ASSEMBLY	L.F.
730-09.21	SPAN WIRE ASSEMBLY (LOCATION DESCRIPTION)	L.F.
730-09.22	SPAN WIRE ASSEMBLY (LOCATION DESCRIPTION)	L.F.
730-09.23	SPAN WIRE ASSEMBLY (LOCATION DESCRIPTION)	L.F.
730-09.24	SPAN WIRE ASSEMBLY (LOCATION DESCRIPTION)	L.F.
730-09.25	SPAN WIRE ASSEMBLY (LOCATION DESCRIPTION)	L.F.
730-09.26	SPAN WIRE ASSEMBLY (LOCATION DESCRIPTION)	L.F.
730-09.27	SPAN WIRE ASSEMBLY (LOCATION DESCRIPTION)	L.F.
730-09.28	SPAN WIRE ASSEMBLY (LOCATION DESCRIPTION)	L.F.

  
P. Brad Freeze, PE  
Director  
Traffic Operations Division

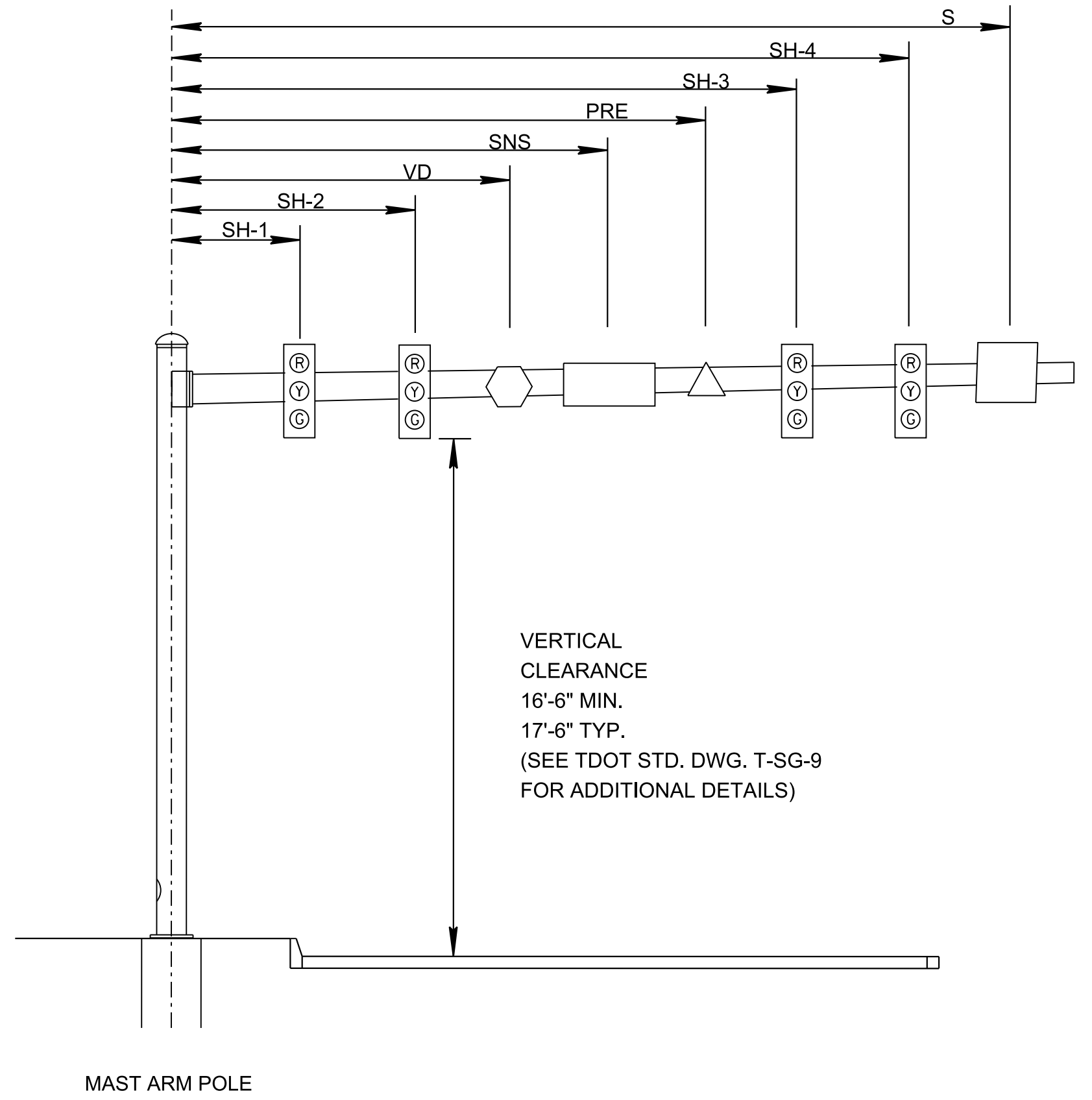
PBF:SKB  
Attachment  
9/27/2017

TYPE	YEAR	PROJECT NO.	SHEET NO.



SIGNAL SUPPORT POLE DATA AND SPAN DETAILS															
POLE NO.	STATION	OFFSET	NORTHING	EASTING	SPAN (LT. TO RT.)	SPAN LENGTH	SH-1	SNS	SH-2	S	SH-3	PRE			GROUND EL. @ POLE
P1	408+79.00	70.0' LT.	257773.8900	2061199.4190	P1 TO P2										
P2	408+71.00	62.0' RT.	257855.0100	2061252.3710	P2 TO P3										
P3	407+73.00	83.0' RT.	257767.6510	2061370.6520	P3 TO P4										
P4	407+92.00	96.5' LT.	257712.9440	2061309.5830	P4 TO P1										

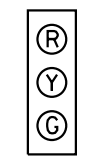
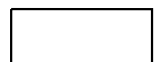



### TYPICAL SIGNAL SUPPORT POLE DATA TABLES



SIGNAL SUPPORT POLE DATA AND MAST ARM DETAILS															
POLE NO.	STATION	OFFSET	NORTHING	EASTING	ARM	ARM LENGTH	SH-1	SH-2	VD	SNS	PRE	SH-3	SH-4	S	GROUND EL. @ POLE
P1	408+79.00	70.0' LT.	257773.8900	2061199.4190	A1										
					B1										
P2	408+71.00	62.0' RT.	257855.0100	2061252.3710	A2										
					B2										
P3	407+73.00	83.0' RT.	257767.6510	2061370.6520	A3										
					B3										
P4	407+92.00	96.5' LT.	257712.9440	2061309.5830	A4										
					B4										

S: SIGN  
 SNS: STREET NAME SIGN  
 SH-X: SIGNAL HEAD  
 VD: VEHICLE DETECTOR (VIDEO/RADAR)  
 PRE: PRE-EMPTION

**LEGEND**

-  SIGNAL HEAD
-  STREET NAME SIGN
-  SIGN
-  VEHICLE DETECTOR (VIDEO/RADAR)
-  PRE-EMPTION

SEALED BY

STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION

ATTACHMENT "A"  
 SIGNAL POLE TABLES