DocuSign Envelope ID: 3ABFDAF7-9184-4E70-9E6E-787C7352EA9E

ZONE 4 (90 MPH)

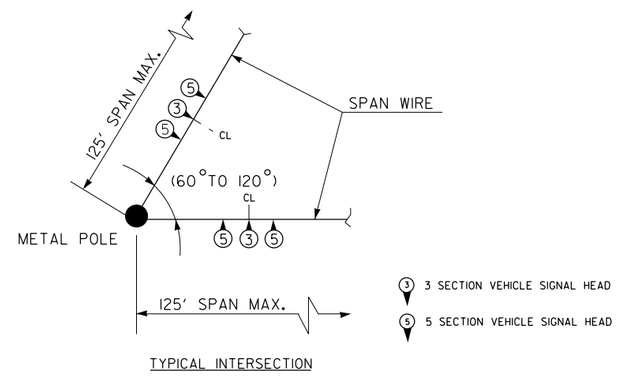
PROJECT ID. NO.	SHEET NO.
DN12132102	Sig.SP 11

LIGHT LOADING

(FOR ONE POLE AND ONE FOUNDATION)

CASE No.	POLE HEIGHT IN (FT.)	METAL POLE		BASE PLATES			ANCHOR BOLTS		CONCRETE FOOTING		
		WALL THICKNESS TH GAGE,(IN)	BASE DIAMETER (IN.)	D (IN.)	BC (IN.)	T (IN.)	NO. OF BOLTS	DIAMETER X TOTAL LENGTH (IN.)	DIAMETER d (IN.)	DEPTH L (FT.)	VOLUME (CU. YDS.)
S26L1	26	0.3125	15	28	22	2	8	2 X 60	48	*	*
S30L1	30	0.3125	16	28	22	2	8	2 X 60	48	*	*
S35L1	35	0.375	15	28	22	2	8	2 X 60	48	*	*

*SEE NOTE 1 AND 2 "SOIL TESTING AND STANDARD SOIL FOUNDATIONS" ON SHEET Sig.SP2 OF THE STANDARD NOTES.



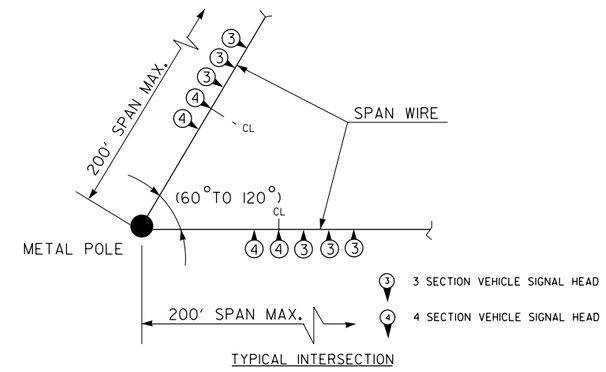
TYPICAL INTERSECTION

HEAVY LOADING

(FOR ONE POLE AND ONE FOUNDATION)

CASE No.	POLE HEIGHT IN (FT.)	METAL POLE		BASE PLATES			ANCHOR BOLTS		CONCRETE FOOTING		
		WALL THICKNESS TH GAGE, (IN.)	BASE DIAMETER (IN.)	D (IN.)	BC (IN.)	T (IN.)	NO. OF BOLTS	DIAMETER X TOTAL LENGTH (IN.)	DIAMETER d (IN.)	DEPTH L (FT.)	VOLUME (CU. YDS.)
S30H1	30	0.3125	19	31	25	2	12	2 X 60	48	*	*
S35H1	35	0.375	18	31	25	2	12	2 X 60	48	*	*

*SEE NOTE 1 AND 2 "SOIL TESTING AND STANDARD SOIL FOUNDATIONS" ON SHEET Sig.SP2 OF THE STANDARD NOTES.



TYPICAL INTERSECTION

METAL STRAIN POLES

COUNTY WIND ZONE 4

90 mph /40 m/s

DURHAM	CHATHAM	CABARRUS	IREDELL
FRANKLIN	HOKE	MECKLENBURG	LINCOLN
GRANVILLE	LEE	STANLY	BUNCOMBE
PERSON	MONTGOMERY	UNION	BURKE
VANCE	MOORE	ALLEGHANY	McDOWELL
WARREN	RANDOLPH	CALDWELL	RUTHERFORD
WAKE	RICHMOND	SURRY	CLAY
ALAMANCE	DAVIDSON	WILKES	HENDERSON
CASWELL	DAVIE	YADKIN	JACKSON
GUILFORD	FORSYTH	ALEXANDER	MACON
ORANGE	ROWAN	CATAWBA	POLK
ROCKINGHAM	STOKES	CLEVELAND	TRANSYLVANIA
SCOTLAND	ANSON	GASTON	

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
ITS and Signals Unit
750 N.Greenfield Pkwy,Garner,NC 27529

Designed in conformance with the latest 2015 Interim to the 6th Edition 2013
AASHTO
Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals

WIND ZONE 4
LOAD CASE AND DESIGN
DETAILS

PLAN DATE:	JUNE 2016	DESIGNED BY:	K.C.DURIGON
PREPARED BY:	N. BITTING	REVIEWED BY:	D.C. SARKAR

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028094 ENGINEER DEBESH C. SARKAR

DocuSigned by:
Debesh C Sarkar
SIGNATURE
8/2/2016
DATE

19-JUL-2016 16:10
S:\ITS&S\ITS Signals\Workgroups\Structures\Drawings\2016 NEW Statewide Standards-ALL METAL POLES\2016-STD STRAIN POLE, Sig. SP 1-12\2016 Sig.SP 11 STD Strain Pole WZ 4.dgn
nbitting