

SHEET NO. .g. 14.5

	М	ETAL	POLE	No.	2			PRC	DJECT REFER		SHEE Sig	
		MAST	ARM	LOAD	DING	SCHEDU	JLE					
	loading symbol		DESC	CRIPTION		AREA	SIZ	ΖE	WEIGHT			
				ED SIGN -WITH BA	AL HEAD Ackplate	16.3 S.F	42.C X 56.C		103 LBS			
				ED SIGN -WITH BA	AL HEAD Ackplate	11.5 · S.F	25.5 X 66.0		74 LBS			
				ED SIGN -WITH BA	AL HEAD Ackplate	9.3 S.F	25.5 25.5 X 52.5		60 LBS			
	2			SIGN MOUNTEI	D	7.5 S.F	30.C X 36.C		14 LBS			
	Street Name			NAME SI Mountei		16.0 S.F	24.C X 96.C		36 LBS			
E 1 1 = f) T	CE MATERIAL traffic sign dition 2015 minaires, contrains NCDOT "Star fications contrains NCDOT Roadw fic signal point "Metal Pol connect.ncdo	AASHTO L and Traffi dard Spec can be fou vay Standa project pl e Standar	RFD "Sto c Signal ificatio nd in th rd Drawi ans and ds" loco	indard Sp s, inclu ons for R ne traffi ngs. special ited at t	ecificat Iding all Coads and c signal provisio The follo	ions for St of the lat Structures project sp ns. wing NCDOT	ructu est i s." Th becial websi	nter e la pra	rim revi atest ad ovisions	sions. denda t	0	У
gi gi col po b b t a p b t a l e r r n c c l o c l o c l o c l o c l o c l o c l o c l o c l o c l o c l o c c c c	MENTS traffic sign are antic will be app hal plans for signal support design for h where the when fully e bolted may ox connection s. This requires on fully plate with m attachment slope and co they are co eads are rig vay clearance the Elevation of the pole the Elevation of the pole the Elevation facturer for hufacturer for attachment /2 of the t	ipated wor lied at th or the act orts using the mast of tip or th loaded. st arm-to- on shown of uires stag arm conneo 8 anchor t height (deflection ussumed to gidly moun base plat base plat on Data C evel and t will deter height (H	rst case ne time of ual load force r force r for defle ted free of bolt ho H1) show are not offset ted and for desi e is 0.7 hart for he high fmine the	"design of the in ds that we ratios the ection she end of the nnection as the connec- the connec- the connec- the conside each oth vertical gn is as 5 feet conside point of e total he 2 feet,	loads" of nstallati will be of nat do no nould pro- ne mast of may be u onnection ections. vide 2 in sed on the ered in d her. ly cente s shown i above the evation d the roa neight (F	and may not ion. The co applied at of exceed 0 ovide an ap arm does no used instea n meets all Use eleva nch x 60 in he followin etermining red on the n the eleva ifferences dway. 12) of each	reprentract the ti .9. pearar t defi d of th tion c ch and g desi the a mast tion evatio betwe pole	esen tor ime lect the d data chor ign rm d arm. viev n. en t	t the ac should r of the i of a low below welded r esign for eac bolts. assumption the prop ng the g	ctual refer to installo v ring ch arm t ions: nt osed greater	-o	
С	72 of the f ation adjus this may a	tments are	e require	ed, the d	contracto	or must gai	n appr	rova	I from t			

Engineer as this may affect the mast arm lengths and arm attachment heights. The contractor may contact the Signal Design Section Senior Structural Engineer for

10. The contractor is responsible for verifying that the mast arm length shown will allow proper positioning of the signal heads over the roadway. 11. The contractor is responsible for providing soil penetration testing data (SPT) to the pole manufacturer so site specific foundations can be designed.

NOTE: Metal poles and mast arms are to have black protective coating as specified in the Project Special Provisions. The ||selected shade, RAL# 9017 Traffic Black, must be verified and approved by the Engineer and City of Lexington before shop

T Wind Zone	5 (110 mph)	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
ared for the Offices of:	NC 8 (Winston Road) at SR 1406 (Biesecker Ro Division 9 Davidson County	ad) Lexington
Design Section	PLAN DATE: May 2024 REVIEWED BY: G.G.	Murr, Jr.
nfield Pkwy,Garner,NC 27529	PREPARED BY: B.E. Wynn REVIEWED BY:	DocuSigned by:
SCALE	REVISIONS IN	IIT. DATE Gene G. Murr Gr.
N/A		144586BE1CDD45B DATE SIG. INVENTORY NO. () 9 - () 4 () ()