

/2024 raffic#Sianals#Desian#Sianals#091100mp1\_sia\_dsn\_XXXX

## METAL POLE No. 1 AND No. 2

PROJECT REFERENCE NO.

N	<b>IETAL</b>	POLE No. 1 AND No.	2		R - 257	7 1	Sig 38 3
					n - 207	/ A	51Y. 50. 5
		MAST ARM LOADING S	CHEDU	LE			
	loading symbol	DESCRIPTION	AREA	SIZE	WEIGHT		
		RIGID MOUNTED SIGNAL HEAD 12"-3 SECTION-WITH BACKPLATE	9.3 S.F.	25.5″W X 52.5″L	60 LBS		
		RIGID MOUNTED SIGNAL HEAD 12"-4 SECTION-WITH BACKPLATE	11.5 S.F.	25.5″W X 66.0″L	74 LBS		
	2	SIGN RIGID MOUNTED	7.5 S.F.	30.0″W X 36.0″L	14 LBS		
e H Lu 24 24 24 24 24 24 24 24 24 24 24 24 24	dition 2019 minaires, o NCDOT "Star fications o NCDOT Roady ic signal p "Metal Po onnect.ncdo ENTS raffic signed are antic vill be app hal plans f signal supp design for n where the vhen fully bolted mo ox connections for is reconstruct the Elevat n ground le hufacturer ng: attachment /2 of the stion adjus this may contact of is resp for is resp for is resp for is resp	gnal structure and foundation in acco 5 AASHTO LRFD "Standard Specification and Traffic Signals, including all or ndard Specifications for Roads and Si can be found in the traffic signal pr way Standard Drawings. project plans and special provisions. Le Standards" located at the followin ot.gov/resources/safety/Pages/ITS-Des gnal structure using the loading cond sipated worst case "design loads" and blied at the time of the installation for the actual loads that will be app ports using force ratios that do not the mast arm deflection should provi- etip or the free end of the mast arm loaded. ust arm-to-pole connection may be use on shown as long as the connection m juires staggering the connections. U arm connection points. As anchor bolt holes. Provide 2 inch the height (H1) shown is based on the deflection are not considered in dete assumed to offset each other. gidly mounted and vertically centered ce height for design is as shown in base plate is 0.75 feet above the gr ion Data Chart for the elevation dif- evel and the high point of the roadway will determine the total height (H2) height (H1) plus 2 feet, or total height of the mast arm attachmed the signal Design Section Senior St 4-5000. consible for verifying that the mast the signal Design Section Senior St 4-5000. consible for providing soil penetrati apecific foundations can be designed.	ns for Str f the late tructures. roject spe ng NCDOT we sign-Resou itions sh may not . The con lied at t exceed 0. de an app does not d instead beets all se elevat is elevat is elevat cound elevat round elevat of each ent assemt must gain trachment ructural arm lengt	ructura est inte est inte est inte est inte est inte est inte est inte arance deflec of the ion dat h anche deflec of the ion dat h anche deflec h anche deflec h anche deflec h anche deflec h anche deflec h anche deflec h anche h anche	erim revi latest ad rovisions : spx the eleve ent the ac should r e of the i e of a low t below e welded r design ta for eac or bolts. n assumpti attachme m. ews. the prop sing the g s 1 foot. al from t er for n will all	sions. denda t	o the ation. to
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9) 878-9560 bix Forks Road Suite 700   Raleigh, Nort ense No. F-0112	h Carolina 27615-2965							
neers   Construction Managers   Planner .rkk.com				[	DOCUMENT NOT ( FINAL UNLE	SS ALL		
onsive People   Creative Solutions					SIGNATURES C	OMPLETED		
Prepared for the Offices of:	US 158 EB (Reidsville Rd.) at SR 2014 (Vance Rd.) Division 9 Forsyth County Walkertown				SEAL OFESSION SEAL 056142			
Do Design Section	PLAN DATE: Fe	oruary 2024	REVIEWED BY:	DT Sears		VG/NE		
Greenfield Pkwy,Garner,NC 27529	PREPARED BY:WP E	rickson-Jones Reviewed By:				ORTER		
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N / A						SIG. INVENTORY NO.	09-1100T5	
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