

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

ALTERNATE PHASING TABLE OF OPERATION					
		PHA	SE		
SIGNAL FACE	Ø2+5	Ø2+6	Ø 4	FLANT	
21,22	G	G	R	Y	
41	⊀ R	╉	ł	≺R	
42,43	1	R	1	R	
51		₹R	₹R	- ¥-	
61,62,63	R	G	R	Y	



LOOP & DETECTOR INSTALLATION CHART ASC/3-2070EN2 CONTROLLER w/ TS-2 CABINET												
	INDUCTI	VE LOOF	'S				DETECTOR UNITS					
	SIZE	DIST. FROM	TUDNIC			NEMA				NG	ADDED	DET.
LUUP NU.	(ft)	(ft)	TUKNS	Z	EXIST	PHASE	ΒN	EXIST	FEATURE	TIME	INITIAL	TYPE
2A	6X6	300	5	-	Х	2	-	Х	-	-	Х	Ν
2B	6X6	300	5	-	Х	2	-	Х	_	_	Х	Ν
4 A	6X60	0	2-4-2	-	Х	4	I	Х	_	_	-	S
5 ^	6 X 6 O	0	2-1-2	_	<	5	Ι	Х	DELAY	15 *	_	S
JA	0700	0	2-4-2		^	2#	Ι	Х	DELAY	3	-	G
5B	6X60	0	2-4-2	-	Х	5	-	Х	DELAY	15	-	S
5C	6X60	0	2-4-2	-	Х	5	-	Х	DELAY	15	-	S
5D	6X15	0	3	-	Х	5	Ι	Х	DELAY	15	-	S
6A	6X6	300	5	Х	-	6	I	Х	_	_	Х	Ν
6B	6X6	300	5	Х	-	6	-	Х	_	_	Х	N
60	6X6	300	5	Х	-	6	-	Х	_	_	Х	N

3 Phase Fully Actuated (Cary Signal System)



42,43

<u>NOTES</u>

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Phase 5 may be lagged.
- 4. Set all detector units to presence mode.
- Pavement markings are existing. 5.
- 6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 7. Cary signal system data: Fiber channel #: 26.

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		_

LEGEND <u>EXISTING</u> <u>PROPOSED</u> Traffic Signal Head $\bigcirc \rightarrow$ Modified Signal Head N/A ● Sign \neg — Pedestrian Signal Head Ц With Push Button & Sign Signal Pole with Guy \bigcirc 0-Signal Pole with Sidewalk Guy Ċ - 🔶 \square Inductive Loop Detector \square Controller & Cabinet Junction Box 2-in Underground Conduit _____ ____ N/A Right of Way _____ \longrightarrow \rightarrow Directional Arrow Guardrail N/A Directional Drill N/A \bigcirc Metal Pole with Mastarm (A) $\langle A \rangle$ No U-Turn Sign (R3-4) "U-TURN YIELD TO RIGHT TURN" $\langle B \rangle$ ₿ Sign (R10-16)

al Upgrade -	Final Design		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
epared in the Offices of:	SR 3015 (Ai	rport Blvd.)	SEAL
HODILITY COR STORE	`a SR (Pleasant Gro ^{Division 5} Wake Co	e E E E SION E E S SION E E E E E E E E E E E E E E E E E E E	
Design Sect	PLAN DATE: March 2019	REVIEWED BY:	WGINE ER
enfield Pkwy.Garner.NC 27529	PREPARED BY: J.A. Lohr	REVIEWED BY:	PT L'
SCALE	REVISIONS	INIT. DATE	DocuSigned by:
			- 1044 - 7/24/2019
			- 18984866274A494 DATE
1 = 40			SIG. INVENTORY NO. 05-1906

		<u>M</u>	<u>EC</u> ALFU (pro)I M(JNCT PROG gram c	DDEL ION RAMN	MMU2 MANA MING d tables	2 - 16 GEME DETA as shown	LEi NT \IL n belo	р <u>UNI⁻ w)</u>	Γ	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0 0 0 6 7 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 11 12 13 14 0 0 0 0 0 12 13 14 15 16 0 0 0 0 0 13 14 15 16 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 10 11 12 0 0 0 0 11 12 13 0 0 0 12 13 14 0 0 0 12 13 14 0 0 0 13 14 15 0 0 14 15 16 0 0 16 0 16 0 16 0 16 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 17 0 18 0 0 0 19 0 19 0 10	7 6 5 4 0 0 0 14 19 0 15 16 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 1 1 5 1 6 1 7 1 7		P1	FIELD (DUAL RED F CHANNE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		C ENAB ENABLE ENABLE DISABL DISABL ENABLE DISABL ENABLE DISABL DISABL DISABL DISABL DISABL DISABL DISABL DISABL ENABLE ENABLE ENABLE		WALK LOG CV EXTERN 24V-2 PGM CAI LED FORCE TYPE1 VM 3×/ VM 3×/ FLAS CONF1 ENAB CH CH CH CH CH CH CH CH CH CH CH CH CH
15_19 MMU	PROGF	RAMM	1 I NG	CAI	==] . ₹D	J ENS IS	URE YELI ENABLED	_OW CH For A	<u>mmu pri</u> Hange p All Chai	<u>OGRAMMIN</u> LUS RED NNELS.	<u>NG NOTE</u> CLEARA
	I NSER 1 F	DETE PARTICI	DET CTOR C JLAR D	T <mark>ECT(</mark> ards i etecto	<mark>)R RA</mark> n rack ir chan	ACK S Accori inels w	ET-UF DING TO ILL CAL	P DE) The _L Ph	ETAI Deta ases	L Il sho Indica	WN BEL TED.
RACK #1	BIU	сн1 L 3 Ø 4 Сн2	сн1 L1 Ø2 ** сн2	сн1 L7 Ø5 сн2	сн1 L5 Ø5 сн2	сн1 L 1 1 Ø 6 ** CH2	сн1 L9 Ø5 сн2	дп ⊣ог∽	S L O T E M	S L O T E M	S L O T E M
		NOT USED	ø 2 **	ø 5	¢2 *	ø6 **	ø6 **	P T Y	P T Y	P T Y	P T Y
W I O	RE LOOPS N LOOP PAI IN THE CI	TO TER NEL AS HART BE	MINALS SHOWN ELOW	; Ff	ROGRAM ACCORD SHOWN	CONTROL ING TO IN THE	LER DE THE SCH CHART	TECTO HEDUL BELOV	DRS E V		
	LOOP NO. 2A 2B 4A	LOOP PA TERMINA L1A,L L2A,L L3A,L	ANEL ALS - 1B - 2B - 3B	2014 DE TE **	CTOR NO.	FUNCTION Ø 2 Ø 2 Ø 4	FEATURE		(SEC)		
ADD JUMPERS FROM L5A TO L6A, AND L5B TO L6B	1: 5A 5B 5C 5D 6A 6B 6C	L 5A,L L 5A,L L 7A,L L 7A,L L 8A,L L 9A,L L 10A,L L 11A,L L 12A,L	- 5B - 6B - 7B - 8B - 9B - 10B - 11B - 12B	* ** **	5 ★ 6 ★ 7 8 9 10 11 12	Ø 5 Ø 2 Ø 5 Ø 5 Ø 5 Ø 6 Ø 6 Ø 6	DELA DELA DELA DELA DELA	r 1 r 3 r 1 r 1 r 1	5 5 5 5		
	NU NU NU * Dete ** Dete	L13A,L L14A,L L15A,L L16A,L ctor T ctor T	<u>138</u> <u>148</u> <u>158</u> <u>168</u> ype - ype -	G (re N	13 14 15 16 move d	elay fr	-om exi	stin	ng deta	ector	card)

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Y

 \star For the detectors to work as shown on the signal plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheet 3.

UNIT OPTIONS	NOTES	
PTION SETTING	1. To prevent "flash-conflict" problems, wire all unused load switches to flash red. Verify that signal heads flash in	
RENT PULSE ON	accordance with the signal plans.	[
COISABLE OFF	2. To prevent red failures on unused monitor chappels, tie	
CVM FAULTS ON	upused load switch red outputs 1.3.7.8.9.10.11.12.13.	
	and 14 to load switch AC+ by inserting a jumper plug in	PHASE
ARD MEMORY ON	the upused load switch act by hiser hing a jumper plag hi	
Douard ON	(DED out) Make ourse all floop trops for relate one of a close	SIGNAL
E TYPE 16 OFF	(RED OUT). Make sure all flash transfer relays are in place.	
E12-SDLC OFF	3. Program controller to start up in phase 2 Green and 6 Green.	RED
«/Day Latch ON	1 Set power up flach time to 10 capacity and implement on the	
	A. Set power-up flash time to 10 seconds and implement on the Malfunction Management Unit. Set controller power-up	YELLOW
SHING YELLOW ARROW	tlash time to U seconds.	GREEN
	5. Enable simultaneous gap-out feature for all phases.	
ABLE CHANNEL PAIR, FTA		RED
H 3-14 OFF	6. Program detectors in accordance with the manufacturer s	ARROW
H 5-15 ON	instructions to accomplish the detection schemes shown on	YELLOW
H 7-16 OFF	the signal design plans.	ARROW
ED/YEL INPUT ENABLE	7. Program detector call delay and extension timing on the	FLASHING
CH 1 OFF	controller, unless otherwise specified.	ARROW
CH 3 OFF		GREEN
	8. Set all detector card unit channels to "presence" mode.	ARROW
RATE FAULT ON	9. Proaram phases 2 and 6 for volume density operation.	L
TRAP DETECT ON		
	10. The cabinet and controller are a part of the Cary	NU = Na
	Signal System.	★ See
<u>E</u>		
RANCE MONITORING		* Denc inst
LOW.	EQUIPMENT INFORMATION	

SOFTWAREECONOLITE ASC/3-2070 CABINET MOUNT.....BASE LOADBAY POSITIONS.....16 LOAD SWITCHES USED.....2,4,5,6,15,16 OLA.....NOT USED OLB.....NOT USED OLC.....* OLD.....4+5 * SEE OVERLAP PROGRAMMING DETAIL ON SHEET 2

	LOAD	SWI	TCH	
SS	IGNME	NT	DET	AI

(program controller according to schedule in chart below)

schedule in	
LOAD SWITCH NUMBER	FUNCTION
1	Ø 1
2	Ø2
3	øз
4	Ø 4
5	Ø5
6	Ø6
7	Ø 7
8	Ø 8
g	Ø2 PED
10	Ø4 PED
11	Ø6 PED
12	Ø8 PED
13	OLA
14	OLB
15	OLC
16	OLD

ELEC

													PROJE	T REFE	RENCE N	10.	SHEET NO.
														I - 57(00	S	ig. 28.1
												•					
																	1
SIGNAL HEAD HOOK-UP CHART																	
	1	2	3	4	5	6	7	8	2 PED	4 PED	6 PED	8 PED	OLA	OLB	OLC	OLD	1
	NU	21,22	NU	41	51	61 . 62 63	NU	NU	NU	NU	NU	NU	NU	NU	5 1★	42,43	;
		2R			*	6R										16R	
		2Y			*	6Y											
		2G				66											
				4R											15R		
				4 Y											15Y	16Y	
															15G		

16G

Not Used

ee pictorial of head wiring detail this sheet.

4G 5G

enotes install load resistor. See load resistor nstallation detail on sheet 2.



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1906 DESIGNED: March 2019 SEALED: 7/24/2019 REVISED: N/A

Electrical Detail -	Final Design - Shee	t 1 of 4			DOCUMENT NOT C FINAL UNLES SIGNATURES CO	ONSIDERED S ALL MPLETED
ELECTRICAL AND PROGRAMMING	SR 3015 (Ai	rport Bl	vd.)		SEAL	
Prepared in the Offices of:	a SR (Pleasant Gro Division 5 Wake PLAN DATE: November 2015	t 1789 ve Churc ^{County} Reviewed By:	ch Rc	1.) Cary	SEAL 036833	
	PREPARED BY: S. Armstrong	REVIEWED BY:			W. H	00,00
senals Management	REVISIONS		INIT.	DATE	DocuSigned by: Ruan W. Houch	8/1/2019
7890NN (Greet) lield Iffkwy, Gorner, NAC 27529					430320FAA2654C3	DATE
					SIG. INVENTORY NO.	05-1906

ECONOLITE ASC

1. From

2. From (

SC/3-2070 OVERLAP PROGRAMMING DETAIL (program controller as shown)	ECONOLITE ASC/3-
Main Menu select 2. CONTROLLER	(prog
	1. From Main Menu s
CUNIRULLER SUDMENU SETECT 2. VEHICLE UVERLAPS	2. From CONFIGURATI
Toggle Twice	3. From PORT 1 (SDL
OVERLAP C	
Select TMG VEH OVLP [C] and 'PPLT FYA'	Set intersec
TMG VEH OVLP[C] TYPE: PPLT FYA	to enter or c
PROTECTED LEFT TURN PHASE 5 OPPOSING THROUGH PHASE 6	lhis programming card must ma intersect:
FLASHING ARROW OUTPUTCH15 ISOLATE	
DELAY START OF: FYAO.O CLEARANCEO.O	MMU PRUGRAM
ACTION PLAN SF BIT DISABLE	СН Є
l Toggle Once √	
OVERLAP D	
Select TMG VEH OVLP [D] and 'NORMAL'	
TMG VEH OVLP[D] TYPE:NORMAL	5 ×
PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 INCLUDED X X	6.
	7.
LAG GRN 0.0 YEL 0.0 RED 0.0	8.
END PROGRAMMING	9.
	12 .
	13.
	14.
	15 X
DAD RESISTOR INSTALLATION DETAIL	
(install resistors as shown below)	
E VALUES PHASE 5 YELLOW FIELD	El
WATTAGE	ELEC
$\frac{ 20W (m_1n) }{10W (m_1n) } \qquad \qquad$	THIS ELECTRICAL DETAIL IS FOR
AC-	THE SIGNAL DESIGN: 05-1906
\leq	DESIGNED: March 2019 SEALED: 7/24/2019
AC-	REVISED: N/A
	750 M

C/3-2070 OVERLAP PROGRAMMING DETAIL	
(program controller as shown)	ECONOLITE ASC/3-
Main Menu select 2. CONTROLLER	1 From Main Menus
CONTROLLER Submenu select 2. VEHICLE OVERLAPS	
	2. From CUNFIGURATI
Toggle Twice	3. From PORT 1 (SDL
OVERLAP C	
Select TMG VEH OVLP [C] and 'PPLT FYA'	Set intersec
TMG VEH OVLP[C] TYPE: PPLT FYA	
PROTECTED LEFT TURN PHASE 5 OPPOSING THROUGH PHASE 6	card must ma intersect;
FLASHING ARROW OUTPUTCH15 ISOLATE	
DELAY START OF: FYAO.O CLEARANCEO.O	
ACTION PLAN SF BIT DISABLE	Сн б
Toggle Unce	
OVERLAP D	2 X 3
Select TMG VEH OVLP [D] and 'NORMAL'	4 X
TMG VEH OVLP [D] TYPE: NORMAL PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	5 X
	6.7
	8.
	9.
END PRUGRAMMING	10.
	11 .
	13.
	14.
	15 X
<u>DAD RESISTOR INSTALLATION DETAIL</u>	
PHASE 5 YELLOW FIELD	
E VALUES TERMINAL (5Y)	
25W (min) 10W (min)	THIS FLECTRICAL DETAIL IS FOR
AC-	THE SIGNAL DESIGN: 05-1906
\leq	DESIGNED: March 2019 SEALED: 7/24/2019
ÁC-	REVISED: N/A
	750 M

<u>L0</u>

VALUES
WATTAGE
25W (min)
10W (m1n)

	— PHASE 5 TERMINAL	YELLOW (5Y)
AC-		- PHASE 5 TERMINA
	AC-	

08:5 _ele_ 6,0

				PROJ	ECT REFERENCE NO.	SHEET NO.
					I-5700	Sig. 28.2
2070 SPECTAL MMIL			2			
$\frac{2070}{\text{sram}} = \frac{\text{shown}}{\text{shown}}$	<u>r nuun</u>		2			
select 1. CONFIGURATION						
ON Submenu select 4. POF	RT 1 (SI	DLC)				
.C) Submenu select 2. MML	J PROGRA	AM				
CAUTION:						
tion to Flash before attemp	ting					
change any MMU programming	data.					
g and that of the MMU prog atch exactly. If they do not,	ramming , the					
ion will be placed into Flash	٦.					
5 5 4 3 2 1 0 9 8 7 6 5 4	32					
••••••••••	••					
< × · · · · · · · × × ·	•					
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N						
END PROGRAMMING						
.ectrical Detail - Final Desig	n - Shee	t 2 of 4			DOCUMENT NOT C FINAL UNLES	ONSIDERED
TRICAL AND PROGRAMMING SR 3	015 (Ai	rport Bl	vd.)		SIGNATORES CO SEAL	MPLETED
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Mobility and int of MORTH CARE. (Place	SK ant Gro	1/89 Ve Chur	ch Rd)	CF AI	
Division 5	Wake	County	Morri	, sville	036833	
PLAN DATE: May PREPARED BY: S. Ar	2019 Ymstrong	REVIEWED BY: REVIEWED BY:			AN W. H	OUCTIN
REVISI	ONS		INIT.	DATE	DocuSigned by: Ryan W. Houth	8/1/2019
N.Greentield Pkwy.Garner.NC 27529			_		430320544265402	DATE

SIG. INVENTORY NO. 05-1906



ECONOLITE ASC/3-2070 VEHICLE DETECTOR SETUP PROGRAMMING DETAIL FOR ALTERNATE PHASING LOOP 5A

(program controller as shown)



END PROGRAMMING

			I-5700	Sig. 28.3
2				
ſ	THIS ELECTRICAL DETAIL IS FOR			
	THE SIGNAL DESIGN: 05-1906 DESIGNED: March 2019			
	SEALED: 7/24/2019			
	NEVIJED: N/H			
Electrical Detail -	Final Design - Sheet 3 of 4		DOCUMENT NOT FINAL UNL	CONSIDERED ESS ALL
ELECTRICAL AND PROGRAMMING	SR 3015 (Airport Blv	d.)	SIGNATURES (COMPLETED
Prepared in the Offices of:	at at	-	War were	ROLIN
Nobility and Street	۲۲۵۹ (Pleasant Grove Church	n Rd.)	SEA	
Trans	Division 5 Wake County PLAN DATE: May 2019 REVIEWED BY:	, Morrisvi	11e 0368	53 EER CX
HS G C TR AND TO THE ALL OF	PREPARED BY: S. Armstrong REVIEWED BY:			HOULIN
750 N.Greenfield Pkwy,Garner,NC 27529		UAI	Ryan W. Hough	8/1/2019
			SIG. INVENTORY NO.	05-1906

PROJECT REFERENCE NO.

SHEET NO.

ALTERNATE PHASING ACTIVATION DETAIL

TO RUN ALT. PHASING DURING FREE RUN - PROGRAM CHANGES (SHOWN BELOW) IN A TIME BASED ACTION PLAN. SCHEDULE A DAY PLAN THAT INCLUDES THE ACTION PLAN PROGRAMMED TO SELECT VEH DET PLAN 2 AND ENABLE SF BIT 5.

TO RUN ALT. PHASING DURING COORDINATION - SELECT THE TIME BASED ACTION PLAN THAT IS PROGRAMMED TO SELECT VEH DET PLAN 2 AND ENABLE SF BIT 5.

PHASING

ACTIONS REQUIRED TO RUN <u>DEFAULT PHASING</u> ACTIONS REQUIRED TO RUN <u>ALTERNATE PHASING</u>

IMPORTANT: IF ALT. PHASING IS USED DURING FREE RUN AND COORDINATION, DO NOT OPERATE TIME OF DAY EVENTS CONCURRENTLY WITH COORDINATION PLAN EVENTS IN THE EVENT SCHEDULER. (EX. FREE RUN EVENT SHOULD END BEFORE COORDINATION PLAN EVENT STARTS AND VICE-VERSA).

ATE PHASING CHAN
A SUMMARY OF WH DET PLAN 2 ACTI G″:
Modifies over for head 51 to only.
Disables phase and reduces de call on loop 5

VEH DET PLAN	SF BITS ENABLED
1	NONE
2	5

NGE SUMMARY

HAT TAKES PLACE WHEN IVATE TO CALL THE

rlap parent phases to run protected turns

se 2 call on loop 5A delay time for phase 5 5A to 0 seconds.

> THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1906 DESIGNED: March 2019 SEALED: 7/24/2019 REVISED: N/A

NOTICE SPC FCT → BIT 5

ELEC

DN PL ERN NG PL DETEC 1 DET D NG E PR RE COND NSE {CL	AN. AN. TOR IAG NAB TUR DEL 1	· · [· · · · PL · PL · LE · N. ·	1 A N	J .UTO .0 .2 .0 NO		SYS SEQ DET RED PED		ERR ICE. IG	I DE	•••	. N NON	0 0 E						
NG PL)ETEC 1)ET D [NG E ?R RE ?OND ↓SE {CL	AN. TOR IAG NAB TUR DEL 1	PL PL LE.	AN. N	• 0 • 2 • • 0 NO		SEQ DET RED PED	UEN LC RE DE	ICE. DG ST.	•••	•••	Non	0 E						
DETEC 1 DET D ING E PR RE COND ASE ACL	I AG NAB TUR DEL 1	2 PL PL LE. N AY	AN. • N.•	• 2 • 0 NO		DE I RED PED	RE DE		•••	• • •	NUN	E						
DET D ING E PR RE COND SE CL	I AG NAB TUR DEL 1	E PL LE N. AY	N	. 0 NO NO		PED	DE	от. Т П	• • •		. N							
ING E PR RE COND ASE {CL	NAB TUR DEL 1	SLE. N AY	•	NO NO		יחם		. I D	IAG	PL	N	0						
PR RE COND \SE ≀CL	TUR DEL 1	2N AY		NO		LKI	OR I	ΤY	RET	URN	. N	0						
COND \SE }CL	DEL 1	ΑY				QUE	UE	DEL	AY.	•••	. N	0						
42⊑ 42⊑	1	2	٦	NO ⊿	5	2	7	Q	٩	0	1	2	٦	Л	۲ ۲	6		
· U L	•	۷		4	с •	٥ •	•	•	ש י	•	•	۲ •		4	ບ •	ю •		
2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
₹CL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
₹CL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
<u>}</u> \<[• 1	•	• ג	• 1	• 5	•	• 7	• Q	• a	•	• 1	• 2	• ג	• 1	• 5	•		
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СТ	•	•	•	•	X	•	•	•	(1	-8)								
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-15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
5-30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
-45	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
5-60 - 75	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
C1-15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
-100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	CL SE SE IH CT CT CT -15 -30 -45 -60 -75 -90 -100	RCL . RCL . SE 1 SE 1 SE 1 IH . CT . CT . CT . -15 . -30 . -45 . -60 . -75 . -90 . -100 .	RCL . RCL . RCL . SE 1 SE 1 SE 1 IH . CT . CT . CT . CT . -15 . -45 . -45 . -75 . -90 . -100 .	RCL . . . RCL . . . SE 1 2 3 SE 1 2 3 IH . . . CT . . . CT . . . CT . . . -15 . . . -45 . . . -45 . . . -75 . . . -90 . . . -100 . . .	RCL RCL SE 1 2 3 4 SE 1 2 3 4 SE 1 2 3 4 IH CT -15 -45 -45 -75 -90 -100 	CL .	RCL .	ACL .	CL .	RCL .	CL .	CL .	CL .	CL .	CL .	CL .	CL .	CL .

ELECTRICAL AND PROGRAMMING DETAILS FOR:	SR 3015	(Ai	rport Bl	vd.)		SEAL	
Prepared in the Offices of:	(Pleasant	a SR Gro	t 1789 ve Chur County	ch Ro	d.)	SEAL 036833	
	DIVISION DATE: May 2010	wake		MOT	r i sviiie	PL KNGINEE	*
	PLAN DATE: May 2019		REVIEWED DI.				
	PREPARED BY: S. Armstro	ng	REVIEWED BY:			W. H	
Sign OF TRAMSTont	REVISIONS			INIT.	DATE	DocuSigned by:	
Managew						Ryan W. Housh	8/1/2019
750 N.Greentield Pkwy, Garner, NC 27529						430320FAA2654C3	DATE
						SIG. INVENTORY NO.	05-1906



11-OCT-2017 08:56 1:*2018 Std Drawings*Plate Sheets*2018 Plate Sheet .



	YPE /	<u>and s</u>	SIZE						R	EIN	FOF	RCING	STE	EL	SCH	EDU
		ANCHOR	BOLT	INSTALL					V-BAR					ST	IRRUP	
Н	CONCRETE VOLUME CY	DIAMETER (MIN.) IN	LENGTH FT-IN	GROUNDING SYSTEM (YES/NO)		ТҮРЕ	SIZE #	QTY	LENGTH	WEIGHT	SIZE #	QU VERTICAL ON 6"	JANTITY SPACING ON 12"	TOTAL	LENGTH	DIAME "C
"	.41	1/2	1'-6"	NO								CENTERS	CENTERS	TOTAL	<u> </u>	<u>FT</u>
"	-58	3⁄1	2'-0"	YES		I	8	6	3'-0''	56	4	0	4	4	5'-7''	1'-6
,,	1 27		<u> </u>	VES		II	8	6	4'-6"	86	4	5	3	8	5'-7"	1'-6
	1.21	I	4-0	120	I	III	8	6	6'-6"	122	4	7	4	11	7'-2"	2'-0

		PROJECT NO.	SHEET NO.
		1-2700	51g. ^{29.1}
URBED SOIL WHEREVER SOIL, CAST-IN-PLACE PROVAL. ONS OF SECTION 825 ETS THE REQUIREMENTS OF N STRENGTH AT 28 DAYS S FOR ALL REINFORCING OR FLATTER. FOUNDATION HE FOLLOWING SOIL DESIGN -O" OF SURFACE ELEVATION HE FOLLOWING SOIL DESIGN 140 MPH TANTIALLY FROM THOSE MAY BE ADJUSTED. IN THIS	1-18 STATE OF NORTH CAROLINA NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.		
ALL REINFORCEMENT. THE DESIGN OR AS			
ED COUPLING INSERT. SARY IS 0'-4½" AND FOR Y IS 0'-6½8". FOLLOW STRUCTIONS.	FOR		
	ENGLISH STANDARD DRAWING I PEDESTALS FOUNDATIONS		
LE TER OVERLAP MIN. WEIGHT LBS TEEL WEIGHT LBS			
" 0'-10" 15 71 " 0'-10" 30 116 " 0'-10" 53 175	SHEET 1 OF 1 1743D01		
	See Plate Prepared in the Offices of:	for Tit	: le
T CONSIDERED LESS ALL COMPLETED	FIRME Unit Signals 750 N. Greenfield Parkway Garner NC 27529	DocuSigned by: Dubuslu C. Sarkar 44E8E32E147F4C4	10/11/2017

Garner, NC 27529







11-OCT-2017 08:25 S:*ITS&SU#ITS Signals*Signal Design Section*Eastern Region*M Sheets*2016*2014 Sig.M3 Std. Fabrication Details-Stra

11-DCT-2017 08:









			ST	stan Rain	IDARD POL	ES			S 48″	TANDAR Diameter D	D FOU	NDATIO Length (L)	NS – Feet			Reinfor	cement	
			Polo	Base	Reaction	ns at the	Pole Base		Cl	ay			Sand		Longi	tudinal	Stiri	rups
		Case No.	Height (Ft.)	BC (In.)	Axial (kip)	Shear (kip)	Moment (ft–kip)	Medium N–Value 4–8	Stiff N–Value 9–15	Very Stiff N–Value 16–30	Hard N–Value >30	Loose N–Value 4–10	Medium N–Value 11–30	Dense N–Value > 30	Bar Size (#)	Quantity (ea.)	Bar Size (#)	Spacing (in.)
W I	L	S26L3	26	25	2	11	270	19	13	10	8	17	14.5	12.5	8	12	4	12
Ñ D	G H	S30L3	30	25	2	11	300	19.5	13.5	10	8	17.5	15	13	8	14	4	12
Z O	Ť	S35L3	35	25	3	11	320	20	13.5	10.5	8	17.5	15	13	8	14	4	12
N E	H E A	S30H3	30	29	3	16	450	24.5	16	12	9	21	17.5	15	8	16	4	6
1	V Y	S35H3	35	29	4	16	515	26	17	12.5	9.5	22	18.5	16	8	16	4	6
Ņ	Ļ	S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
	ц С Н	S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
z	Ť	S35L2	35	23	3	10	300	19.5	13	10	8	17	14.5	13	8	12	4	12
	H E △	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
2	V Y	S35H2	35	29	4	15	475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6
N T	L	S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
	G H	S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
7	Ť	S35L2	35	23	3	10	300	19.5	13	10	8	17	14.5	13	8	12	4	12
N E	H E ⊿	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
3	V Y	S35H2	35	29	4	15	475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6
v	Ļ	S26L1	26	22	2	8	190	16	11.5	8.5	8	15	12.5	11	8	12	4	12
J	G H	S30L1	30	22	2	8	205	16.5	11.5	9	8	15	13	11.5	8	12	4	12
	Ť	S35L1	35	22	3	8	230	17	12	9	8	15.5	13.5	11.5	8	12	4	12
	H E A	S30H1	30	25	3	12	320	20.5	13.5	10.5	8	18	15	13.5	8	16	4	6
1	V Y	S35H1	35	25	4	12	350	21	14	10.5	8.5	18.5	15.5	13.5	8	16	4	6
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"Design "So"	PLAN
750 N.Greenfield Pkwy,Garner,NC 27529	PREP
SCALE	Chang
NONE	

JECT ID. NO.

I-5700

General Notes:

1. Values shown in the "Reactions at the Pole Base" column represent the minimum acceptable capacity allowed for design using a design CSR of 1.00. 2. Use chairs and spacers to maintain proper clearance. 3. For foundation, always use air-entrain concrete mix.

Foundation Selection:

1. Perform a standard penetration test at each proposed foundation site to determine "N" value. 2. Select the appropriate wind zone from M 1 drawing. 3. Select the soil type (Clay or Sand) that best describes the soil characteristics. 4. Get the appropriate standard pole case number from the plans or from the Engineer. 5. Select the appropriate column under "Standard Foundations" based on soil type and "N" value. Select the appropriate row based on the pole load case. 6. The foundation depth is the value shown in the "Standard Foundations" category where the column and the row intersect. 7. Use Construction Procedures and Design Methods prescribed

by FHWA-NHI-10-016 for Reference Drilled Shafts.

Condition Soil oundation–All ЦĽ ole Strain Standard

Standard Strain Pole Foundation for All Soil Conditions						
DATE:	OCTOBER 2017	DESIGNED BY:	C.B. CO	GDELL		
ARED BY:	N. BITTING	REVIEWED BY:	D.C. S	ARKAR		
	REVISIONS		INIT.	DATE		
ed "Foundat	ion Depth" to "Drilled Pier Le	N.B.	7/12/2015			



DATE

INSTALL REA, PE – 22, SHIELDED, 1TWISTED PAIR COMMUNICATIONS CABLE INSTALL COAX CABLE 2 INSTALL ETHERNET CABLE 3 INSTALL SMFO CABLE 4 INSTALL MMFO CABLE <u>_5</u> INSTALL FIBER OPTIC DROP CABLE 6 INSTALL TRACER WIRE <u>/7</u> (8)TRENCH INSTALL PVC CONDUIT 9) INSTALL RIGID, GALVANIZED STEEL CONDUIT (10) INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD (11) (12) INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL INSTALL OUTER-DUCT POLYETHYLENE CONDUIT (14) INSTALL POLYETHYLENE CONDUIT (15) DIRECTIONAL DRILL CONDUIT (16) BORE AND JACK CONDUIT (17) INSTALL CABLE(S) IN EXISTING CONDUIT (18) INSTALL CABLE(S) IN NEW CONDUIT (19) INSTALL CABLE(S) IN EXISTING RISER \smile \frown INSTALL CABLE(S) IN NEW RISER (20) (21) INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (22) (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) INSTALL NEW RISER INTO EXISTING CABINET BASE (23) (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) (24) INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET (25) INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET $\langle 2 \delta \rangle$ MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE **27** INSTALL NEW FIBER OPTIC TRANSCEIVER INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS 28 AND FUSION SPLICE CABLE IN CABINET **29** INSTALL UNDERGROUND SPLICE ENCLOSURE $\langle 30 \rangle$ INSTALL AERIAL SPLICE ENCLOSURE $\langle 31 \rangle$ INSTALL POLE MOUNTED SPLICE CABINET 32 INSTALL BASE MOUNTED SPLICE CABINET $\langle 33 \rangle$ REMOVE EXISTING SPLICE CABINET

34	INSTALL CABINET FOUNDATION	— F0 —
35	INSTALL CCTV CAMERA POLE MOUNTED CABINET	TWIST
36	INSTALL CCTV CAMERA ASSEMBLY	EXI Dem
37	INSTALL CCTV CAMERA WOOD POLE	
38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	
39	INSTALL JUNCTION BOX	
40A	INSTALL OVERSIZED JUNCTION BOX	B&J
40B	INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 36" x 24")	
41	REMOVE EXISTING JUNCTION BOX	○ NEW V● EXISTING
42	INSTALL WOOD POLE	S AERIAL
43	REMOVE EXISTING WOOD POLE	
44	INSTALL AERIAL GUY ASSEMBLY	
45	INSTALL STANDARD GUY ASSEMBLY	EXISTIN
46	INSTALL SIDEWALK GUY ASSEMBLY	C NEW S
47	INSTALL MESSENGER CABLE	
48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	CONSTR
48B	REMOVE EXISTING COMMUNICATIONS CABLE	(XX) I
49	BACK PULL EXISTING COMMUNICATIONS CABLE	XX I
50	INSTALL CELLULAR MODEM	
51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE	
52A	INSTALL DELINEATOR MARKER	CABLE
52B	INSTALL JUNCTION BOX MARKER	
53	STORE 20 FEET OF COMMUNICATIONS CABLE	
54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	
55	LASH CABLE(S) TO EXISTING MESSENGER CABLE	NUM
56	LASH CABLE(S) TO NEW MESSENGER CABLE	O RISER(S)⁄C
57	MODIFY EXISTING ELECTRICAL SERVICE	
58	INSTALL NEW ELECTRICAL SERVICE	$\langle \Sigma \rangle$
59	INSTALL NEW ETHERNET EDGE SWITCH	
60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	
61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	F
62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	
63	BOND RISER TO POLE GROUND	
64	BOND MESSENGER CABLE TO POLE GROUND	
65	INSTALL HEAT SHRINK TUBING RETROFIT KIT	
66	INSTALL MOLDABLE DUCT SEAL	
67	SLACK SPAN	750 N. (

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		CONDUIT		
	ORED AND JACKED	CONDUIT		
IUNCTION BOX		NFW CARLE STOPACE BACK		
G JUNCTION BOX		EXISTING CABIE STORAGE P	ACK (SNOW SHOP	
WOOD POLE		EXISTING CONTROLLER AND	CABINET	
G WOOD POLE		NEW CCTV CABINET		
SPLICE ENCLOSURE		EXISTING SPLICE CABINET		
GROUND SPLICE ENCI		NEW SPLICE CABINET		
G METAL POLE	SP //J	SIGNAL POLE		
CCTV ASSEMBLY	((()	FLAT PANEL ANTENNA (SINC	∍LE) ⊃R	
G CCTV ASSEMBLY	- -	REPEATER OPERATION		
STANDARD GUY ASSE	MBLY	YAGI ANTENNA (SINGLE)		
XX-XXXX SIGNA	al INVENTORY NU	MBER		
UCTION NO	DTE SYMB	OLOGY KEY		
	OF CARIES 10	OPS, FTC		
INDICATES NUMBER	OF FIBERS PER	CABLE,		
INDICATES NUMBER	CABLE, ETC.			
INDICATES NUMBER	G CF KISEK(S)/CC			
INDICATES DIAMETE	ER OF RISER(S)/C	CONDUIT(S) (INCH)		
	FIB	NUMBER OF ERS/TWISTED PAIRS		
L(3)				
	\xx)	NEW/EXISTING CABLE		
		REMOVE/MODIFY CABLE		
ABFR		ETER		
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onduit(s)	KISER(S)/COND	UII(S) (INCH)		
ATTACHMEN	NT POINT:			
XX"/SS YYY REFERE	ICE ABOVE (IN NCE POINT	N/ATTACHMENT POINT	Γ	
YYY REFERE			г	
<u> </u>	NCE BELUW (INVALIACIMENT POIN	41	
"SS" REFERENCE	LOCATION]		
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TONSPORTATION SUS	PLAN DATE: JULY 2	PARE UUUNIY 2019 REVIEWED BY DocuSigned by:	UANT US2108	
Greenfield Pkwy. , Garner, NC 27529	PREPARED BY: A.J. REVISIONS	SKUCE Mil livery	DATE	SLATITIT
			DocuSigned by: 7 Molud Aslami	/29/2019

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I. Greenfield Pkwy., Garner, NC 27529	PREPARED BY:	A. J. SKUCE		l lwry F5DB4CBED3443	A. A	SLAM III
	I	KEVISIUNS		INIT.	DocuSigned by: Molul Aslami	7/29/2019
1'' = 50'						DATE

PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1–4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

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NEW AERIA
AIRPORT BLV
SIG. II
Notes: Unused fibers left Unused Buffer Tu
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TO NEV ASE AT 05–1726

- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE TOWN OF CARY TRAFFIC SIGNAL SYSTEM SUPERVISOR, WESLEY VO, AT 919-460-3148 TO ARRANGE FOR THE TOWN TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE TRAFFIC SIGNAL SYSTEM SUPERVISOR AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL
- 2) CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENT FOR COMPARISON TO THE SUPPLIED SPLICE DETAILS. IF DISCREPANCIES EXIST, CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED WITH RESPLICING. PROVIDE AS-BUILT PLANS TO THE ENGINEER IF FINAL SPLICE ARRANGEMENT DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
- 3) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
- 4) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: **REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"**

1) SPLICE LOCATION

2) DATE

3) COMPANY NAME

4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1–4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

						PROJE	I-5700	SHEET NO. SCP.10
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LLER CABINET								
. # 05–1906								
2070 CONTROLLER								
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