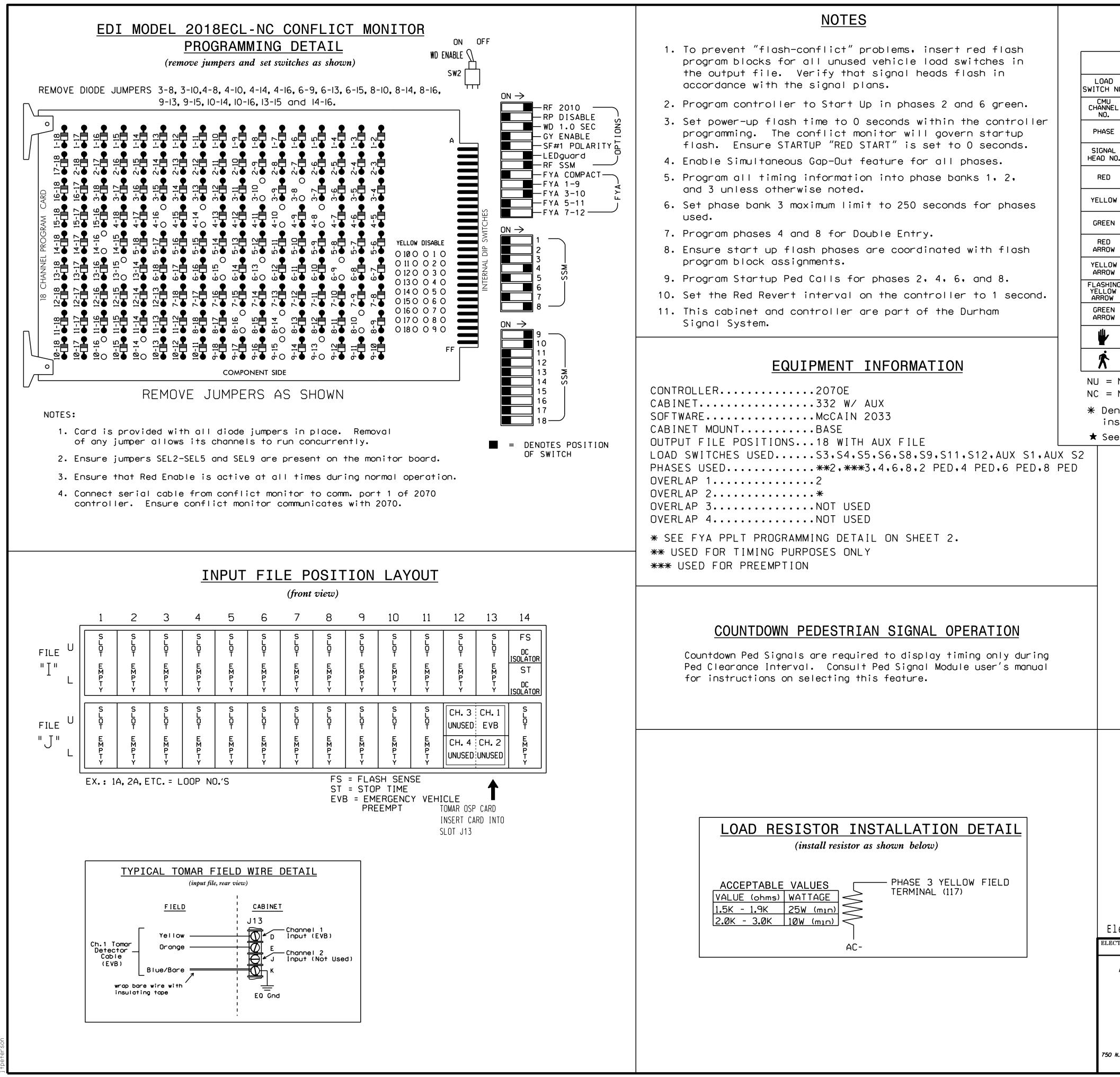


PROJECT REFERENCE NO.	SHEET NO.
W-5601GG	Sia. 1.0

PROPOSED EXISTING Traffic Signal Head Modified Signal Head Signal Head Pedestrian Signal Head Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box Junction Box Directional Arrow Directional Arrow Type II Signal Pedestal Optical Detector Street Name Sign (R10-11) Street Name Sign (R3-1) No Left Turn Sign (R3-2) No Left Turn Sign (R3-2)
 Modified Signal Head N/A Sign Pedestrian Signal Head Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box Junction Box Z-in Underground Conduit N/A Right of Way Directional Arrow Type II Signal Pedestal Optical Detector M/A Curb Ramp
Image: Sign indication of the second seco
Pedestrian Signal Head Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box Junction Box Junction Box Directional Arrow Type II Signal Pedestal Optical Detector
Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector
Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box 2-in Underground Conduit N/A Right of Way Directional Arrow O Type II Signal Pedestal Optical Detector N/A Curb Ramp
Inductive Loop Detector □□□□ Inductive Loop Detector □□□□ Image: Controller & Cabinet [x] Image: Direction Box Image: Controller & Cabinet N/A Right of Way Image: Directional Arrow Image: Controller & Cabinet Image: Directional Arrow Image: Controler & Cabinet <t< td=""></t<>
Controller & Cabinet Image: Signal Pedestal Image: Directional Arrow Image: Signal Pedestal Image: Directional Detector Image: Signal Pedestal Image: Directional Detect
□ Junction Box ■ 2-in Underground Conduit N/A Right of Way → Directional Arrow → ○ Type II Signal Pedestal ● ○ Optical Detector ● N/A Curb Ramp
 2-in Underground Conduit N/A Right of Way Directional Arrow Type II Signal Pedestal Optical Detector N/A Curb Ramp
N/A Right of Way Directional Arrow > Type II Signal Pedestal • Optical Detector • N/A Curb Ramp
→ Directional Arrow → ○ Type II Signal Pedestal ● ○ Optical Detector ● N/A Curb Ramp
 ○ Type II Signal Pedestal ○ Optical Detector ► ►
Optical Detector ◄ N/A Curb Ramp
N/A Curb Ramp
B DO NOT ENTER SIGN (RS-1) B
$\langle c \rangle$ Charact Name Class (D7.1)
© Street Name Sign (D3-1) ©
No Right Turn Sign (R3-1)
⟨F⟩ Left Arrow "ONLY" Sign (R3-5L) (F)



T-2016 07:35 S&SU#ITS Signals*Workgroups*Sig Man*Peterson*051005_sm_ele_xxx.

C OCT 201C 07.2E

PROJECT REFERENCE NO.	SHEET	N0.
W-5601GG	Sig.	1.1

			SIC	GNA	LH	HEA	DH	100	K-l	JP	CH	٩RT					
S1	S2	S3	S4	S5	S6	S7	S8	59	S1Ø	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1			0L3	OL4	SPARE
NU	NC	P21 . P22	81 ★	41,42	P41, P42	NU	61,62 63	P61, P62	NU	82,83	P81 . P82	21	81	NU	NU	NU	NU
				101			134			107							
			*	102			135			108							
				103			136			109							
												A121	A124				
												A122	A125				
												A123	A126				
			118														
		113			104			119			110						
		115			106			121			112						
	1	1 2 1 2	S1 S2 S3 1 2 13 1 2 PED NU NC P21; NU NC 10 I I I	S1 S2 S3 S4 1 2 13 3 1 2 P20 3 NU NC P21 81 NU NC P21 81 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <	S1 S2 S3 S4 S5 1 2 13 3 4 1 2 P_{ED}^2 3 4 NU NC P_{21}^2 81^* 41,42 NU NC P_{22}^2 81^* 101 I I I I 101 I I I I 102 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	S1S2S3S4S5S61213341412 P_{ED} 34 P_{ED} NUNC P_{22} 81^{*} 41.42 $P_{41.}$ NUNC P_{22} 81^{*} 101 101 NUIII101IIIIII 102 II	S1 S2 S3 S4 S5 S6 S7 1 2 13 3 4 14 5 1 2 P^2_{ED} 3 4 P^4_{ED} 5 NU NC P^{21}_{P22} 81^* 41.42 $P^{41.}_{P42}$ NU NU NC $P^{21.}_{P22}$ 81^* 101 I I I I I I IIII IIIII I I I I I IIIIII IIIIII IIIIII IIIIIII IIIIIIII IIIIIIIIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	S1 S2 S3 S4 S5 S6 S7 S8 1 2 13 3 4 14 5 6 1 2 $\frac{2}{PED}$ 3 4 $\frac{4}{PED}$ 5 6 NU NC $\frac{2}{PED}$ 3 4 $\frac{4}{P4D}$ NU $61,62$ NU NC $\frac{2}{P22}$ 81^{*} $41,42$ $\frac{941}{P42}$ NU $61,62$ NU NC $\frac{2}{P22}$ 81^{*} 101 I I 134 I I I IIIII IIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	S1 S2 S3 S4 S5 S6 S7 S8 S9 1 2 13 3 4 14 5 6 15 1 2 $\frac{2}{PED}$ 3 4 $\frac{4}{PED}$ 55 6 $\frac{6}{PED}$ NU NC $\frac{2}{P2D}$ 3 4 $\frac{4}{P4D}$ 50 6 $\frac{6}{PED}$ NU NC $\frac{2}{P2D}$ 81 41.42 $\frac{941}{P42}$ NU 61.62 $P61.$ NU NC $\frac{921}{P22}$ 81^{*} 1021 IU IU 134 762 NU I. I. I. IU IU III III III III III IIII III III III III III III IIII IIIII IIIIII IIIIII IIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 1 2 13 3 4 14 55 66 15 7 1 2 2^{P}_{ED} 3 4 4^{A}_{ED} 55 66 p^{6}_{ED} 7 NU NC p^{21}_{P22} 81^{\bullet} 41.42 p^{41}_{P42} NU 61.62 $p61.$ NU NU NC p^{21}_{P22} 81^{\bullet} 41.42 p^{41}_{P42} NU 61.62 $P61.$ NU NU NC p^{21}_{P22} 81^{\bullet} 41.42 p^{41}_{P42} NU 61.62 $P61.$ NU I I I I I III IIII IIII IIII IIII	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 1 2 13 3 4 14 5 6 15 7 8 1 2 $\frac{2}{PED}$ 3 4 $\frac{4}{PED}$ 5 6 $\frac{6}{PED}$ 7 8 NU NC $\frac{2}{PED}$ 3 4 $\frac{4}{PED}$ 5 6 $\frac{6}{PED}$ 7 8 NU NC $\frac{2}{PED}$ 3 4 $\frac{4}{PED}$ 5 6 $\frac{6}{PED}$ 7 8 NU NC $\frac{2}{PED}$ 81* 41.42 $\frac{4}{P42}$ NU 61.62 66.7 NU 82.83 NU NC $\frac{2}{P22}$ 81* 102 ILL NU 134 ILL NU 82.83 NU ILL $\frac{1}{100}$ ILL ILL <thill< th=""> <thill< th=""> <thill< <="" td=""><td>S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 1 2 13 3 4 14 5 6 15 7 8 16 1 2 P_{ED}^2 3 4 P_{ED}^4 5 6 P_{ED}^6 7 8 P_{ED}^8 NU NC P_{22}^2 81 41.42 P_{41}^4 NU 61.62 P_{61}^6 NU 82.83 $P_{82}^{81.7}$ NU NC P_{22}^2 81 41.42 P_{41}^4 NU 61.62 P_{61}^6 NU 82.83 $P_{81}^{81.7}$ NU NC P_{22}^2 81 41.42 P_{41}^4 NU 61.63 P_{61}^6 NU 82.83 P_{81}^8 NU NC P_{22}^2 81^4 102 NU 11.63 NU 82.83 P_{81}^8 NU $IIII IIIII IIIII IIIII IIIIII IIIIIII IIIIIIII IIIIIIII IIIIIIIII$</td><td>S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 AUX 1 2 13 3 4 14 5 6 15 7 8 16 9 1 2 PED 3 4 PED 5 6 PED 7 8 PED 0.1 NU NC $P2D$ 31 41.42 $P4D$ NU $6EG$ PED NU 82.83 PBD $21.*$ NU NC $P2D$ 81* 41.42 $P4D$ NU 61.62 $P6D$ NU 82.83 PBD $21.*$ NU NC $P2D$ $81*$ 102 IU IU</td><td>1 2 13 3 4 14 5 6 15 7 8 16 9 10 1 2 $\frac{2}{PED}$ 3 4 $\frac{4}{PED}$ 5 6 $\frac{6}{PED}$ 7 8 $\frac{8}{PED}$ 0L1 0L2 NU NC $\frac{2}{P22}$ 81 41.42 $\frac{9}{P41}$ NU $\frac{61.62}{63}$ P61 NU 82.83 $\frac{981}{P82}$ 21 81 NU NC $\frac{922}{P22}$ 81 41.42 $\frac{941}{P42}$ NU $\frac{61.62}{63}$ P61 NU 82.83 $\frac{981}{P82}$ 21 $\frac{81}{P82}$ $\frac{81}$</td><td>S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 AUX AUX AUX 1 2 13 3 4 14 5 6 15 7 8 16 9 10 17 1 2 PED 3 4 PED 5 6 PED 7 8 PED 0.11 0.2 space NU NC PED 3 4 PED 5 6 PED 7 8 PED 0.11 0.2 space NU NC PDD AIA PAD NU BED OLI OLD $PAPE$ NU NC PDD AIA PAD NU BED OLI OLD $PAPE$ NU NC PDD AIA PAD NU BID AID AID</td><td>S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 AUX SUX SUX SUX 1 2 13 3 4 14 5 6 15 7 8 16 9 10 17 11 1 2 $\frac{2}{\text{PED}}$ 3 4 $\frac{4}{\text{PED}}$ 5 6 $\frac{6}{\text{PED}}$ 7 8 $\frac{8}{\text{PED}}$ 0.1 0.2 $\frac{9}{\text{PAPE}}$ 0.3 NU NC $\frac{2}{\text{PED}}$ 3 $\frac{4}{\text{PED}}$ $\frac{7}{\text{PED}}$ $\frac{6}{\text{PED}}$ $\frac{7}{\text{PED}}$ $\frac{8}{\text{PE}}$ $\frac{8}{\text{PE}}$ $\frac{0.1}{\text{PE}$ $\frac{1}{\text{PE}}$ $\frac{1}{\text{PE}}$</td><td>S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 $S11$ $S12$ $S12$</td></thill<></thill<></thill<>	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 1 2 13 3 4 14 5 6 15 7 8 16 1 2 P_{ED}^2 3 4 P_{ED}^4 5 6 P_{ED}^6 7 8 P_{ED}^8 NU NC P_{22}^2 81 41.42 P_{41}^4 NU 61.62 P_{61}^6 NU 82.83 $P_{82}^{81.7}$ NU NC P_{22}^2 81 41.42 P_{41}^4 NU 61.62 P_{61}^6 NU 82.83 $P_{81}^{81.7}$ NU NC P_{22}^2 81 41.42 P_{41}^4 NU 61.63 P_{61}^6 NU 82.83 P_{81}^8 NU NC P_{22}^2 81^4 102 NU 11.63 NU 82.83 P_{81}^8 NU $IIII IIIII IIIII IIIII IIIIII IIIIIII IIIIIIII IIIIIIII IIIIIIIII$	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 AUX 1 2 13 3 4 14 5 6 15 7 8 16 9 1 2 PED 3 4 PED 5 6 PED 7 8 PED 0.1 NU NC $P2D$ 31 41.42 $P4D$ NU $6EG$ PED NU 82.83 PBD $21.*$ NU NC $P2D$ 81* 41.42 $P4D$ NU 61.62 $P6D$ NU 82.83 PBD $21.*$ NU NC $P2D$ $81*$ 102 IU	1 2 13 3 4 14 5 6 15 7 8 16 9 10 1 2 $\frac{2}{PED}$ 3 4 $\frac{4}{PED}$ 5 6 $\frac{6}{PED}$ 7 8 $\frac{8}{PED}$ 0L1 0L2 NU NC $\frac{2}{P22}$ 81 41.42 $\frac{9}{P41}$ NU $\frac{61.62}{63}$ P61 NU 82.83 $\frac{981}{P82}$ 21 81 NU NC $\frac{922}{P22}$ 81 41.42 $\frac{941}{P42}$ NU $\frac{61.62}{63}$ P61 NU 82.83 $\frac{981}{P82}$ 21 $\frac{81}{P82}$ $\frac{81}$	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 AUX AUX AUX 1 2 13 3 4 14 5 6 15 7 8 16 9 10 17 1 2 PED 3 4 PED 5 6 PED 7 8 PED 0.11 0.2 space NU NC PED 3 4 PED 5 6 PED 7 8 PED 0.11 0.2 space NU NC PDD AIA PAD NU BED OLI OLD $PAPE$ NU NC PDD AIA PAD NU BED OLI OLD $PAPE$ NU NC PDD AIA PAD NU BID AID	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 AUX SUX SUX SUX 1 2 13 3 4 14 5 6 15 7 8 16 9 10 17 11 1 2 $\frac{2}{\text{PED}}$ 3 4 $\frac{4}{\text{PED}}$ 5 6 $\frac{6}{\text{PED}}$ 7 8 $\frac{8}{\text{PED}}$ 0.1 0.2 $\frac{9}{\text{PAPE}}$ 0.3 NU NC $\frac{2}{\text{PED}}$ 3 $\frac{4}{\text{PED}}$ $\frac{7}{\text{PED}}$ $\frac{6}{\text{PED}}$ $\frac{7}{\text{PED}}$ $\frac{8}{\text{PE}}$ $\frac{8}{\text{PE}}$ $\frac{0.1}{\text{PE}$ $\frac{1}{\text{PE}}$	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 $S11$ $S12$

NU = Not Used

NC = No Connectin

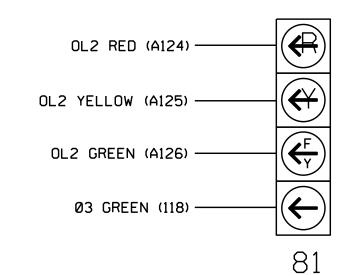
* Denotes install load resistor. See load resistor

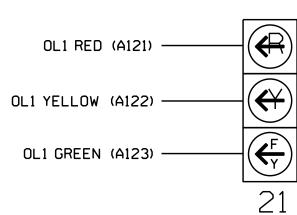
installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)





THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1005 DESIGNED: August 2016 SEALED: 10-24-16 REVISED: N/A

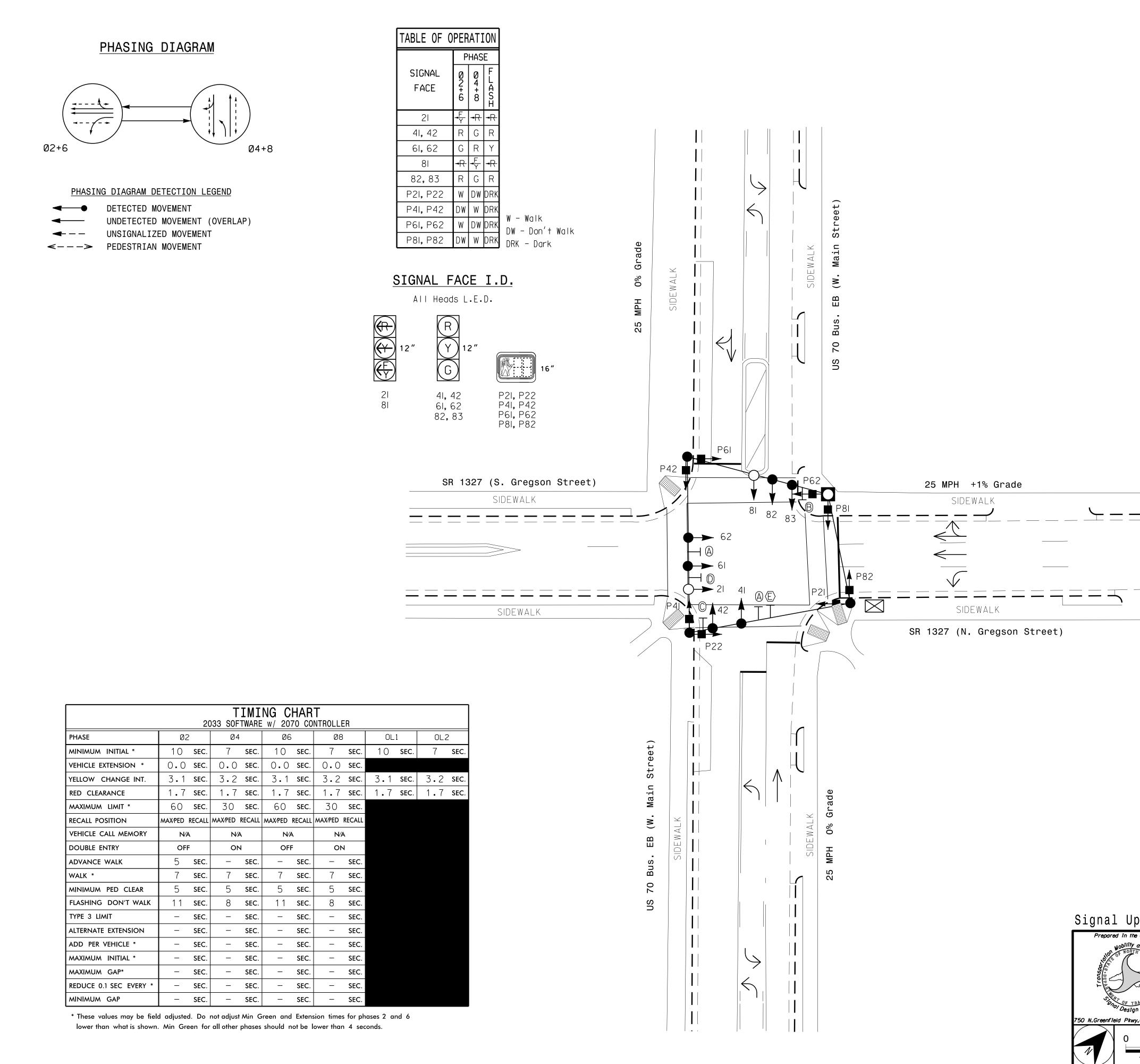
lectrical Detail -	Sheet 1 of 2	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
CTRICAL AND PROGRAMMING DETAILS FOR:	SR 1327 (N. Gregson	Street)
Prepared in the Offices of:	at US 70 Bus. WB (W. Morga Division 5 Durham County	an Street) Durham
	PLAN DATE: October 2016 REVIEWED BY: PREPARED BY: James Peterson REVIEWED BY:	THE MEINER MULTIN
N.Greenfield Pkwy,Garner,NC 27529	REVISIONS	INIT. DATE DocuSigned by: IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
		SIG. INVENTORY NO. 05-1005

<u>FYA PPLT PROGRAMMING</u>
1. Program Flashing Yellow Arrow phases as follow: Main Menu - 1) PHASE - 2) PHASE FUNCTIONS PAGE PPLT FYA = PHASE 3
2. Assign output pin for Flashing Yellow Arrow as Main Menu - 6) OUTPUTS - F) FYA PPLT Phase 3 = 96
3. Redirect RED and YELLOW outputs for the left to as follows: Main Menu - 6) OUTPUTS - 8) REDIRECT PHASE Phase 3 RED = 94, Phase 3 YELLOW =
<u>OVERLAP GREEN FLASH PROGRAMMING</u> (SIGNAL HEAD 21)
The following will cause the overlap green output is wired to the flashing yellow arrow. Program a
Main Menu - 1) PHASE - 2) PHASE FUNCTIONS P OLAP G FL = 1
OVERLAP [1] PROGRAMMING DETAIL
Program overlaps as follows: Main Menu - 4) OVERLAP
OVERLAP [1]: LOADSWITCH = 9 NOTE: FO VEH SET 1 = 2 YELLOW CLEARANCE = 3.8 RED CLEARANCE = 1.3
END OF OVERLAP PROGRAMMING
<u>SPECIAL NOTES EV PREEMPT PR</u>
Setting 'FYA DURING PREEMPT' to 'Y' elimi when transitioning to preempt from adjace Main Menu - 9) UTILITIES - FYA DURING PREEMPT (Y/N) =
FLASHER CIRCUIT MODIFICATION
IN ORDER TO INSURE THAT SIGNALS FLASH CONCURF Same Approach, make the following flasher cif
1. ON REAR OF PDA - REMOVE WIRE FROM TERM, T2-4 AND 2. ON REAR OF PDA - REMOVE WIRE FROM TERM, T2-5 AND 3. REMOVE FLASHER UNIT 2.

CT-2016 09:45 TS&SU*ITS Sig

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS

	EMERGENCY VEHICLE PREEMPTION PROGRAMMING	PROJECT REFERENCE NO.SHEET NO.W-5601GGSig. 1.2
ows:	1. Program EVB preempt as follows: Main Menu - 2) PREEMPT - 4) EMERGENCY VEHICLE EVB Clear = 15 EVB Clearance Phases = 3,8	
E TWO	2. Program general preemption parameters as follows: Main Menu - 2) PREEMPT - 6) MISC PREEMPTION PARAMETERS Min Time Before PE ForceOff = 1	
follows: turn phases = 95	3. Ped Clear Before Preempt is a pedestrian timing parameter, and is programmed as follows: Main Menu - 1) PHASE - 5) PEDESTRIAN TIMING Phase 2 MIN FDW = 5 Phase 4 MIN FDW = 5 Phase 6 MIN FDW = 5 Phase 8 MIN FDW = 5	
	Program extend time on optical detector units for 2.0 sec for EVB.	
DETAIL	MIN WALK DURING PREEMPTION	
ut to flash, which as follows: PAGE TWO	To disable MIN WALK pedestrian timing during preemption, program the controller as follows: Main Menu - 9) UTILITIES - 5) CONFIGURATION EXTRA TWO = 3	
FOR SIGNAL HEAD 21	ADVANCE WALK PROGRAMMING Program Leading PED Interval as follows: 1. Main Menu - 1) PHASE - 1) PHASE FUNCTIONS PAGE ONE ADVANCE WALK = 2 2. Main Menu - 1) PHASE - 5) PEDESTRIAN TIMING WALK Phase 2 = 7 ADV/DELAY WALK Phase 2 = 5	
<pre>Model and a second and a s</pre>	STARTUP CALLS PROGRAMMING Prevents Veh Call to phase 3 during Startup. Phase 3 used only during Preempt. Main Menu - 9) UTILITIES - 1) STARTUP VEHICLE CALLS 2.4.6.8 PED CALLS 2.4.6.8	
<mark>n detail</mark> irrently on the		
URCUIT CHANGES: Id terminate on t2-2. d terminate on t2-3.	ELECTRICAL AND PROGRAMMING DETAILS FOR: REVISED: N/A	P of ESSION
APS TO FLASHER UNIT 1.	PREPARED BY: James Peterson REVIEWED BY: 750 N.Greenfield Pkwy.Garner.NC 27529 INIT.	DATE DocuSigned by: M. M. LocuSigned by: 10/27/2016 2F80786E8CD34A5 DATE SIG. INVENTORY NO. 05-1005



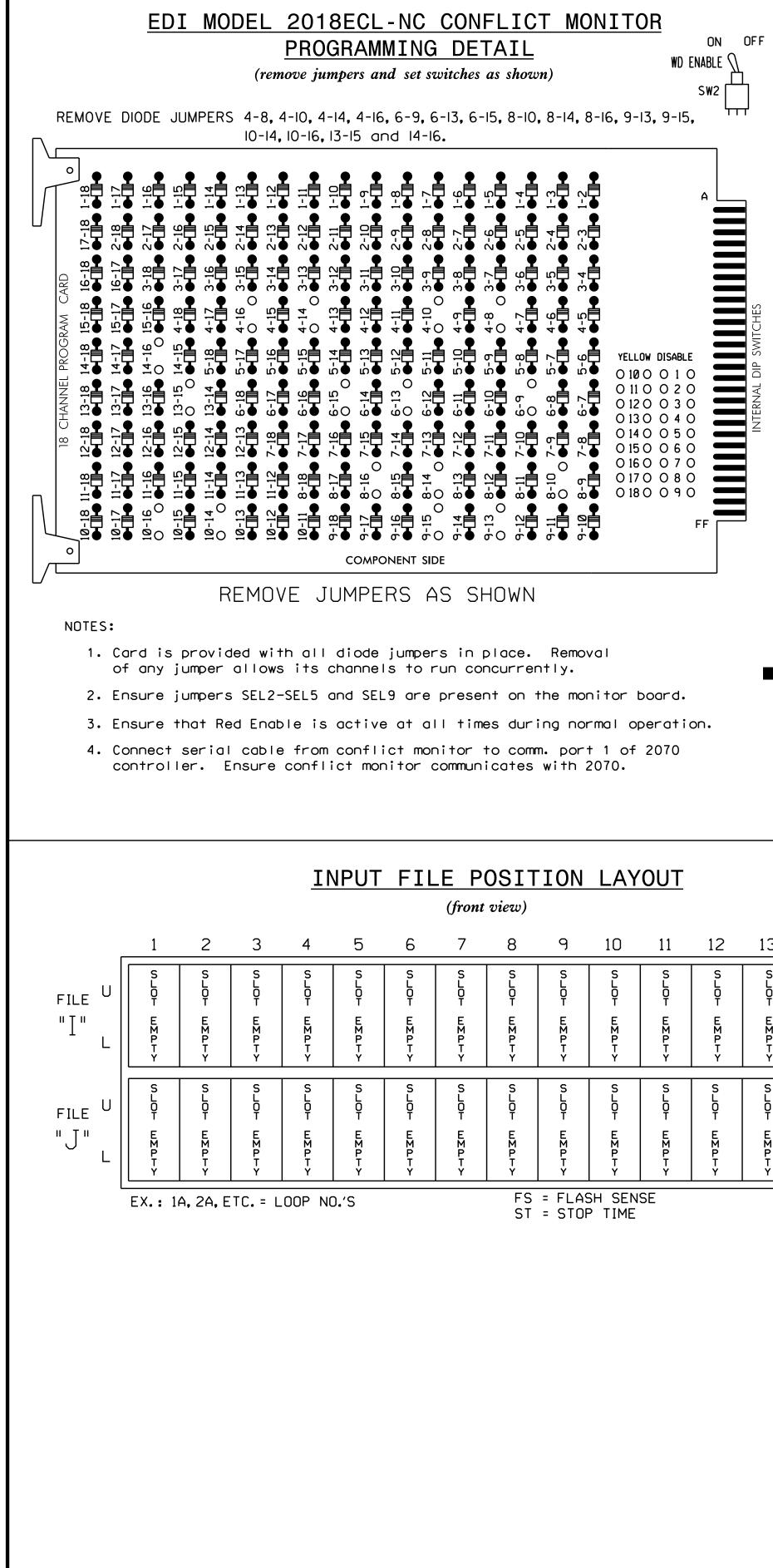
		PROJECT REFERENCE NO.	SHEET NO.
	l	W-5601GG	Sig. 2.0
	2 Phase		
	Pre-Timed (Durham Signal System)		
	NOTES		
	 Refer to "Roadway Standard Drawings NCDOT" dated Janu 		
	2012 and "Standard	-	
	Specifications for Roads a Structures" dated January	2012.	
	 Do not program signal for night flashing operation 	late	
	unless otherwise directed	by	
	the Engineer. 3. Renumber existing signal h	eads	
	and phases as shown. 4. Reposition existing signal	heads	
	numbered 61, 62, 82, and 8	3.	
	5. Locate new cabinet so as n obstruct sight distance of		
	turning right on red. 6. Program all timing informa	tion	
	into phase banks 1, 2, and		
	unless otherwise noted. 7. Set phase bank 3 maximum l	imi†	
	to 250 seconds for phases 8. Program pedestrian heads t		
	countdown the flashing "Do		
	Walk" time only. 9. Pavement markings are exis	ting.	
	10. Maximum times shown in tim chart are for free-run	-	
	operation only. Coordinat		
	signal system timing value supersede these values.	S	
	LEGEND	YISTING	
(<u>PROPOSED</u> <u>E∑</u> ○→ Traffic Signal Head	<u>XISTING</u> ●─►	
	● → Modified Signal Head	N/A	
	→ Sign -□→ Pedestrian Signal Head	⊣ -∎→	
	Signal Pole with Guy		
	Inductive Loop Detector		
	Controller & Cabinet		
	——- 2-in Underground Conduit — N/A Right of Way —		
	> Directional Arrow	\rightarrow	
	Metal Strain Pole N/A Curb Ramp		
	⟨A⟩ Street Name Sign (D3-1)		
	⟨B⟩ No Right Turn Sign (R3-1) ⟨C⟩ "NO TURN ON RED" Sign (R10-11)	B C	
	Left "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15)	D	
	(E) No Left Turn Sign (R3-2)	E	
pgrade		OCUMENT NOT CONSIDE	
e Offices of:		SEAL	COMPLETED
ONA SOLEH	SR 1327 (Gregson Street) at	NITH CA	R0/11,
Division	US 70 Bus. EB (W. Main Stree		ONA Z
RAMBER COLON		rham SEAL 02648	
y,Garner,NC 27529		ENGINE	ER. MAIN
SCALE 20	REVISIONS INIT. C	DATE DocuSigned by:	10/24/2016
1 "=20'		SIG. INVENTORY NO.	05-1007

05-1007

 \rightarrow

0

1″=20′

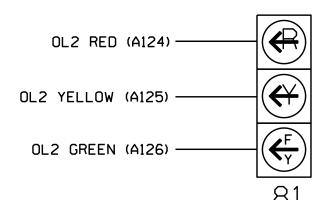


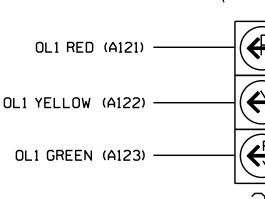
S - S

- F	NOTES															ct refe W-560	erence i 1GG		SHEET NO. ig. 2.1
'	 To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. Verify that signal heads flash in 		1			SIG	NA	LH	EAD					-					
$on \rightarrow$	accordance with the signal plans.	LOAD SWITCH NO.	. S1	S2	S3	S4	S5	S6	S7 S8	3 S	9 510	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX 4 S5	чUX S6
RF 2010 RP DISABLE WD 1.0 SEC	 Program controller to Start Up in phases 2 and 6 green. Set power-up flash time to 0 seconds within the controller 	CMU CHANNEL NO. PHASE	1	2	13 2 PED	3	4	14 4 PED	5 6 5 6	19 E		8	16 _8_		10 0L2	17 SPARE		12 12 גר	
GY ENABLE	programming. The conflict monitor will govern startup flash. Ensure STARTUP "RED START" is set to 0 seconds.	SIGNAL	NU						NU 61,6			82,83							
LEDguard RF SSM FYA COMPACT	4. Enable Simultaneous Gap-Out feature for all phases.	HEAD NO.			P22		101	P42	13		62	107	P82						
$ FYA 1-9 \qquad \downarrow \\ FYA 3-10 \qquad \succ $	5. Program all timing information into phase banks 1, 2, and 3 unless otherwise noted,	YELLOW					102		13			107							
FYA 5-11	6. Set phase bank 3 maximum limit to 250 seconds for phases used.	GREEN					102		13			100							
	7. Program phases 4 and 8 for Double Entry.	RED					103		13	0		רשו		A121	A124				
	8. Ensure start up flash phases are coordinated with flash program block assignments.	ARROW YELLOW	-							_					A124				
	9. Program Startup Ped Calls for phases 2, 4, 6, and 8.	ARROW FLASHING													A125				
	10. Set the Red Revert interval on the controller to 1 second.	YELLOW ARROW GREEN								_				A123	8 A126				
	11. This cabinet and controller are part of the Durham Signal System.	ARROW																	
					113			104		11	9		110						
	EQUIPMENT INFORMATION	X			115			106		12	21		112						
	CONTROLLER	NU = N $NC = N$			tion														
	CABINET	★ See	Dict	oria	l of	heac	l wi	rina	in de	tail	l this	s she	et.						
= DENOTES POSITION	CABINET MOUNTBASE OUTPUT FILE POSITIONS18 WITH AUX FILE		p · c ·					·g											
OF SWITCH	LOAD SWITCHES USED																		
	OVERLAP 1																		
	OVERLAP 2								TON			TNO		•	. .				
	OVERLAP 4NOT USED						<u> </u>		IGNA (wire s						<u>\IL</u>				
	* USED FOR TIMING PURPOSES ONLY									- -	i neuus	us 5776	own)			Г			
				(OL1 RE	D (A12	21) —					0L2	RED ((A124))	(P		
				OL1	YELLON	W (A12	2) —		-)	OL	.2 YELI	LOW (A125)		($\langle \! \langle \! \rangle \!$		I
13 14				OL1	GREE	N (A12	3) —)	(DL2 GR	EEN (A126)		((F)		
S FS O DC	COUNTDOWN PEDESTRIAN SIGNAL OPERATION								21								<u> </u>		
T DC ISOLATOR M ST P	Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual																		
P T DC Y ISOLATOR	for instructions on selecting this feature.																		
s s																			
E E M M P P T T																			
Y Y																			I
								—											I
									HIS EL HE SIG										
									ESIGNE EALED:		-								
								R	EVISED	: N/	Ά								
			ctric				Shee	t 1 c	f 2								SNATUR	ES COI	D FINAL MPLETED
		ELECTR	RICAL A		GRAMM ETAILS F			SR	1327	(Gr	easo	n St	ree [.]	t)			SE	AL	
		Pi	repared 1	n the Off illity and NORTM	Tices of: ແ						at			·	+ \		R ROFF	SSIONA,	
			10 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		of en Div		US visio	n 5	Bus.	Durh	(W ∎ am_Count			[t) Durham	, 111111, A	S 03	EAL 6880	
		t rad			ision NOTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		AN DATE EPARED		tober 2 es Pete		REVIEW REVIEW		B	BAS			F ENC	INEER.	MUIII
		750 4 0	Snals Ma	nagement	Section Arc and				VISIONS				INIT 		DATE	-DocuSigne Éeíth M		<u></u>	1 <u>0/27/2016</u>
		750 N.G	reenfield	· KWY.GOP	1151,NC 21											-2F80786E8 SIG. IN	CD34A5 VENTORY I	10. 05	DATE 5-1007

										PROJE	CT REF	ERENCE	NO.	SHEE	T NO.
											W-56	01GG		Sig.	2.1
															_
SIC	GNA	LI	HEA)	HOO	K-l	JP	CHA	٩RT						
															1

) NO.	S1	S2	S3	S4	S5	S6	S7	58	59	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
EL	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
E	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
L 10.	NU	NC	P21. P22	NU	41,42	P41, P42	NU	61,62	P61 . P62	NU	82,83	P81 . P82	21	★ 81	NU	NU	NU	NU
					101			134			107							
W					102			135			108							
N					103			136			109							
W													A121	A124				
IW W													A122	A125				
ing W													A123	A126				
N W																		
			113			104			119			110						
			115			106			121			112						





ADVANCE WALK PROGRAMMING

Program Leading PED Interval as follows: 1. Main Menu - 1) PHASE - 1) PHASE FUNCTIO ADVANCE WALK = 2 2. Main Menu - 1) PHASE - 5) PEDESTRIAN TI WALK Phase 2 = 7 ADV/DELAY WALK Phase 2 = 5

FLASHER CIRCUIT MODIFICATION

IN ORDER TO INSURE THAT SIGNALS FLASH CONC SAME APPROACH, MAKE THE FOLLOWING FLASHER

ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4
 ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5
 REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERL

-OCT-2016 09:50 *ITS&SU*ITS Signals*Workgroups*Sig Man*Peterson*051007_sm_ele_xxx.d

	PROJECT REFERENCE NO.SHEET NO.W-5601GGSig. 2.2
	OVERLAP PROGRAMMING DETAIL (SIGNAL HEADS 21 AND 81)
IONS PAGE ONE	Program overlaps as follows: Main Menu - 4) OVERLAP
TIMING	OVERLAP [1]: LOADSWITCH = 9 VEH SET 1 = 2 YELLOW CLEARANCE = 3.1 RED CLEARANCE = 1.7
	Press "+" OVERLAP [2]: LOADSWITCH = 10 NOTE: FOR SIGNAL HEAD 81 VEH SET 1 = 4 YELLOW CLEARANCE = 3.2 RED CLEARANCE = 1.7
ION DETAIL Incurrently on the R circuit changes:	END OF OVERLAP PROGRAMMING
AND TERMINATE ON T2-2. AND TERMINATE ON T2-3.	<u>OVERLAP GREEN FLASH PROGRAMMING DETAIL</u> (SIGNAL HEADS 21 AND 81)
ERLAPS TO FLASHER UNIT 1.	The following will cause the overlap green outputs to flash, which are wired to the flashing yellow arrows, Program as follows:
	Main Menu - 1) PHASE - 2) PHASE FUNCTIONS PAGE TWO OLAP G FL = $1,2$

ELECTRICAL AND PROGRAMMING							SEAL
DETAILS FOR: Prepared in the Offices of:		1327	(Gre	egson Sti	reet)		WH CARO
Nobility one Service S	US 70 Division 5	Bus.		at (W. Main ^{m County}	Stre	et) Durham	SE AL 036880
	PLAN DATE: 00	ctober 2	2016	REVIEWED BY:	BAS		F. FNGINEER
	PREPARED BY: Jan	nes Pete	erson	REVIEWED BY:			TH M MINI
STATION OF THE REAL PROPERTY OF	DI	EVISIONS		-	INIT.	DATE	

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1007 DESIGNED: August 2016 SEALED: 10-24-16 REVISED: N/A