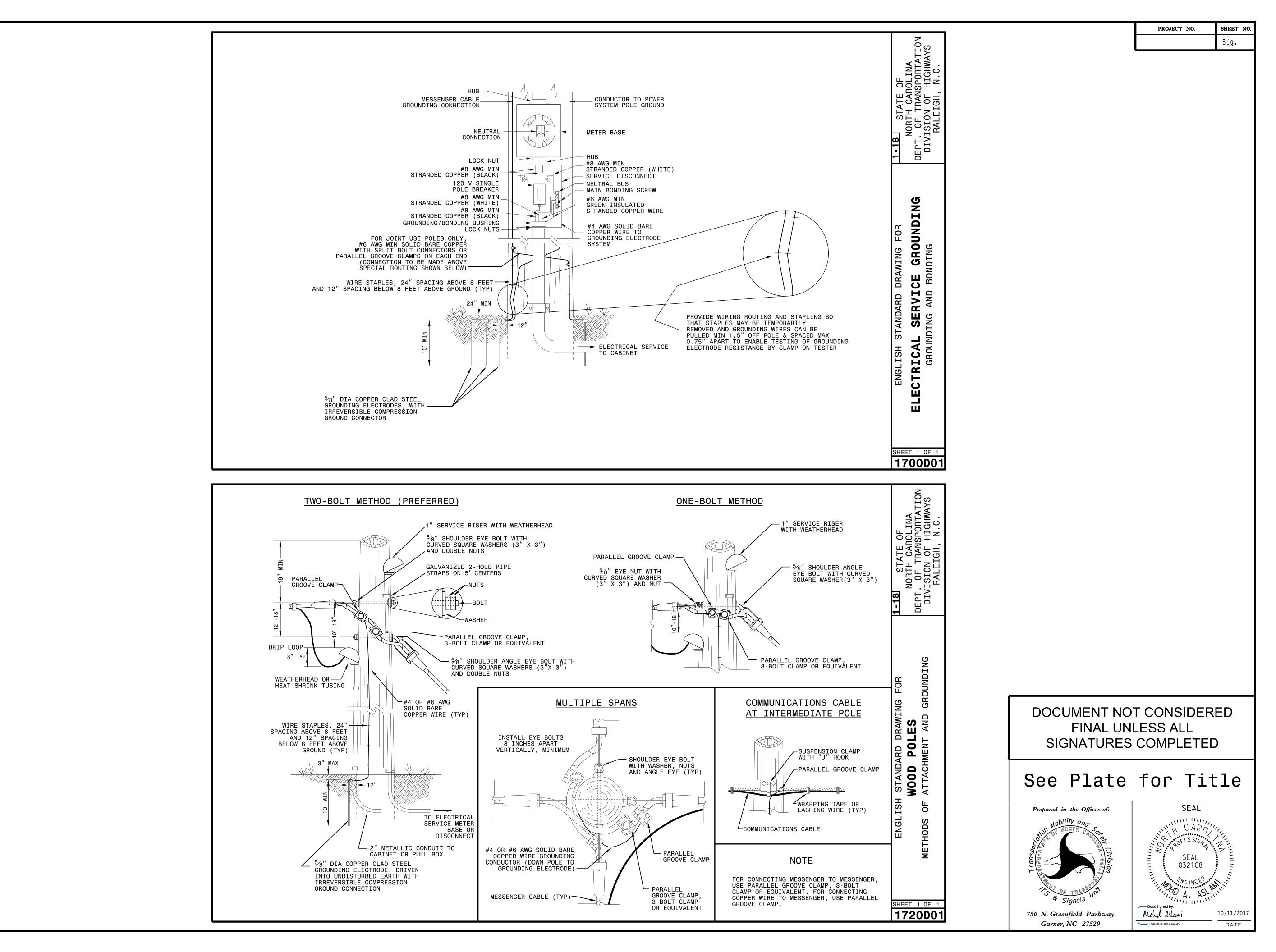
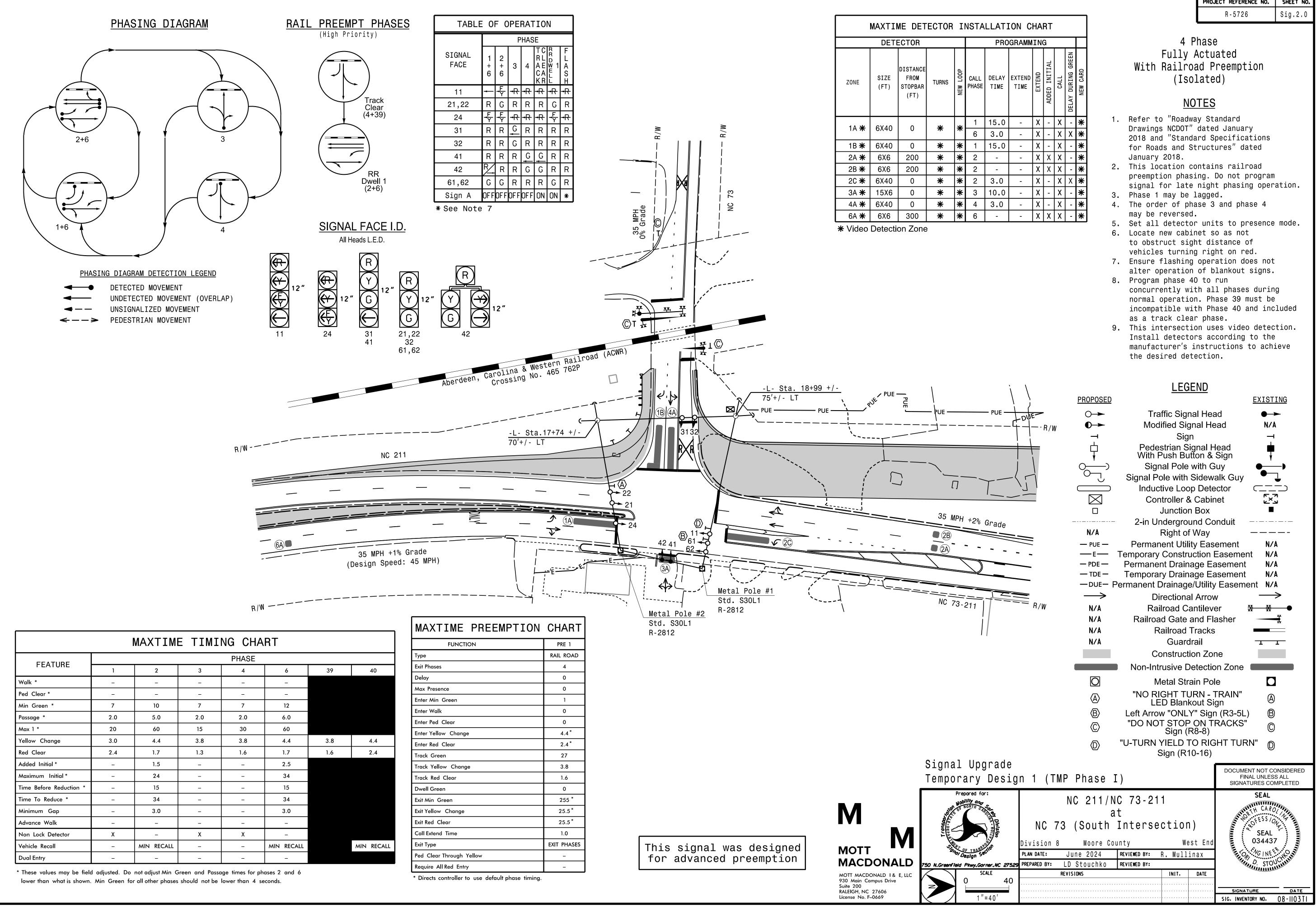




Location/Description	TRANSPORTATION SY. MANAGEMENT & OPER
a Intersection) 33 (Mode Rd) be Grove Church Rd) ben Lakes Drive and SR 1190 (Lakeway Drive) bails	Contacts: Robert J. Ziemba, PE – Central Regio Ryan W. Hough, PE – Signal Equipm

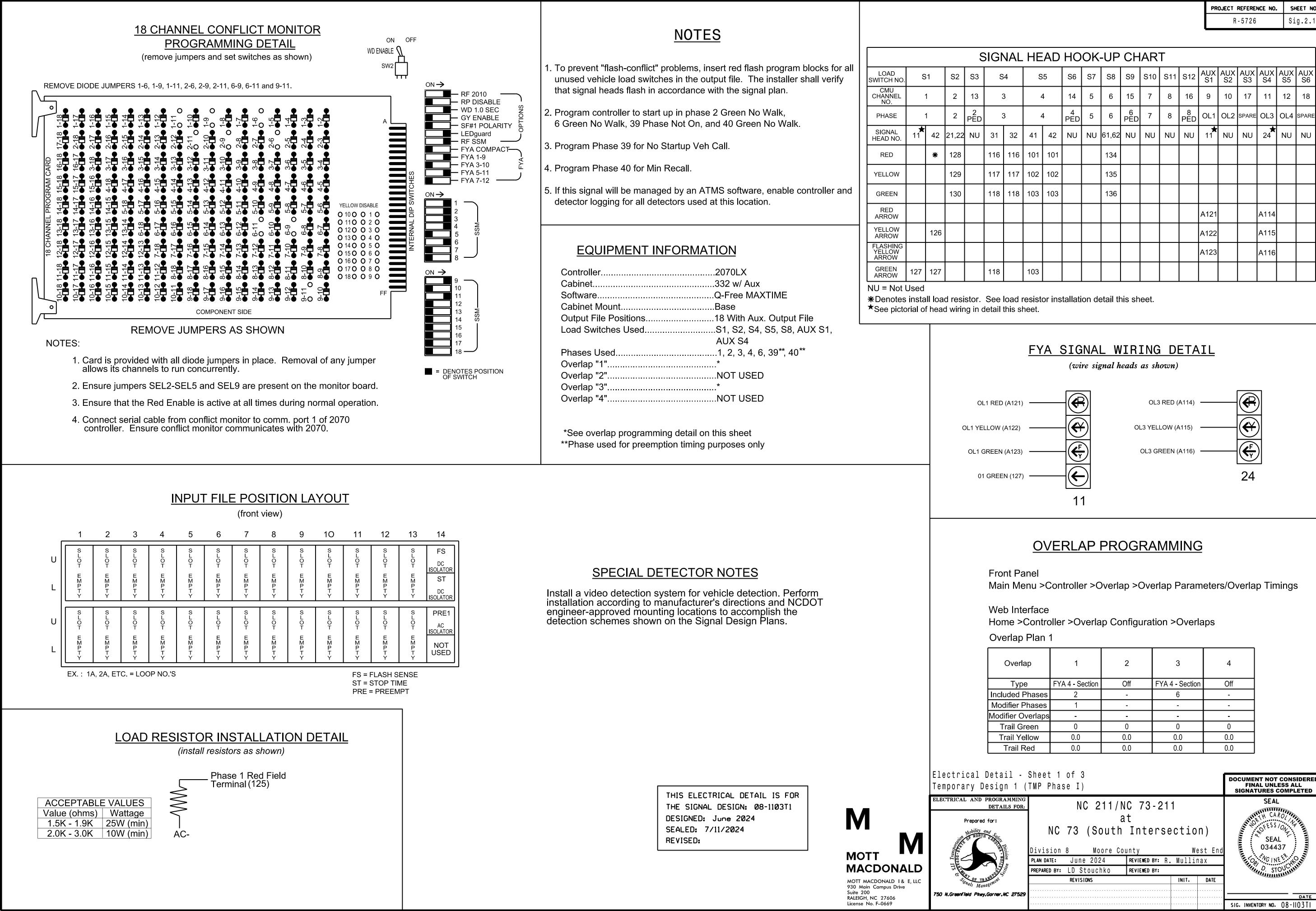


11-OCT-2017 08:56 1:\*2018 Std Drawinas\*Plate Sheets\*2018 Plate Sheet .



.2.0

DR	R INSTALLATION CHART									
PROGRAMMING										
S	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD	
	*	1	15.0	-	Х	-	Χ	-	*	
	₩	6	3.0	-	Х	1	Χ	Χ	*	
	*	1	15.0	-	Х	-	Χ	-	*	
	*	2	-	-	Х	Х	Χ	-	*	
	*	2	-	-	Х	Х	Χ	-	*	
	*	2	3.0	-	Х	-	Χ	Х	*	
	*	3	10.0	-	Х	-	Χ	I	*	
	*	4	3.0	-	Х	-	Х	-	*	
	*	6	-	-	Х	Х	Χ	-	*	



	SIGNAL HEAD HOOK-UP CHART																	
S2	S3	S	4	S	5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
2	13	ŝ	3	2	1	14	5	6	15	7	8	16	9	10	17	11	12	18
2	2 PED		3	2	1	4 PED	5	6	6 PED	7	8	8 PED	OL1		SPARE	OL3	OL4	SPARE
21,22	NU	31	32	41	42	NU	NU	61,62	NU	NU	NU	NU	<b>★</b> 11	NU	NU	<b>★</b> 24	NU	NU
128		116	116	101	101			134										
129		117	117	102	102			135										
130		118	118	103	103			136										
													A121			A114		
													A122			A115		
													A123			A116		
		118		103														

Overlap	1	2	3	4
Туре	FYA 4 - Section	Off	FYA 4 - Section	Off
Included Phases	2	-	6	-
Modifier Phases	1	-	-	-
Modifier Overlaps	-	-	-	-
Trail Green	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0

trical Detail - orary Design 1 (							DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
ICAL AND PROGRAMMING DETAILS FOR:		N	C 211/N		SEAL		
Prepared for:	NC Division PLAN DATE: PREPARED BY:	TE: June 2024 REVIEWED BY: R. Mullinax					SEAL 034437
G VI OF TRANSPORT		PREPARED BY:         LD Stouchko         REVIEWED BY:           REVISIONS					Maninin II.
reenfield Pkwy,Garner,NC 27529		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	DATE SIG. INVENTORY NO. 08-1103T1

### Front Panel

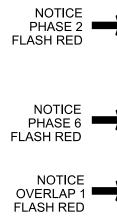
Main Menu >Controller >More>Channels>Channels Config

Web Interface

Home >Controller >Advanced IO>Channels>Channels Configuration

### Channel Configuration

	Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel
	1	Phase Vehicle	1		Х	Х	1
<b>→</b>	2	Phase Vehicle	2		Х		2
·	3	Phase Vehicle	3		Х	Х	3
	4	Phase Vehicle	4		Х		4
	5	Phase Vehicle	5		Х		5
→	6	Phase Vehicle	6		Х	Х	6
·	7	Phase Vehicle	7		Х		7
	8	Phase Vehicle	8		Х	Х	8
→	9	Overlap	1		Х	Х	9
	10	Overlap	2		Х	Х	10
→	11	Overlap	3		Х		11
·	12	Overlap	4		Х		12
	13	Phase Ped	2				13
	14	Phase Ped	4				14
	15	Phase Ped	6				15
	16	Phase Ped	8				16
	17	Overlap	5		Х	Х	17
	18	Overlap	6		Х		18



NOTICE OVERLAP 3 FLASH RED

## MAXTIME STARTUP AND SOFTWARE I PROGRAMMING DETAIL

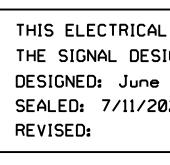
Front Panel Main Menu >Controller >Unit

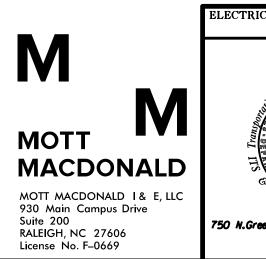
Web Interface Home >Controller >Unit

Modify parameters as shown below and save changes

Startup Parameters
Startup Clearance Hold
6

Unit Flash Parameters				
All Red Flash Exit Time				
6				





	<b>PROJECT REFERENCE NO.</b> R-5726	SHEET NO. Sig.2.2
ARE FLASH		
changes.		
ters		
ime		
CTRICAL DETAIL IS FOR		
NAL DESIGN: 08-1103T1		
): June 2024 7/11/2024		
· · · · · · · · · · · · · · · · · · ·		
Electrical Detail - Sheet 2 of 3 Temporary Design 1 (TMP Phase I)	DOCUMENT NOT C FINAL UNLES	SS ALL
FLECTRICAL AND DROGRAMMING	SIGNATURES CO SEAL	MPLETED
$\frac{\text{details for:}}{\text{ot}} \qquad \text{NC}  211/\text{NC}  73-211$		
Prepared for: Mobility and Second Se	)	
	Ś SEAL	
Division 8 Moore County West PLAN DATE: June 2024 REVIEWED BY: R. Mullina	t End x 03443	
PLAN DATE: JUNE 2024 REVIEWED BY: R. MUIIINA PREPARED BY: LD Stouchko REVIEWED BY:	A D STO	
	DATE	
750 N.Greenfield Pkwy.Garner.NC 27529		
	SIG. INVENTORY NO.	08-1103T1

## **SEQUENCE DETAIL**

Front Panel

Main Menu >Controller >Sequence & Phs Config>Sequences

Web Interface

Home >Controller >Sequence

Sequence 1

Ring	Sequence Data			
1	1,2,a,3,4,b			
2	5,6,a,7,8,b			
3	39,c,40,d			

## PREEMPTION PROGRAMMING

Front Panel

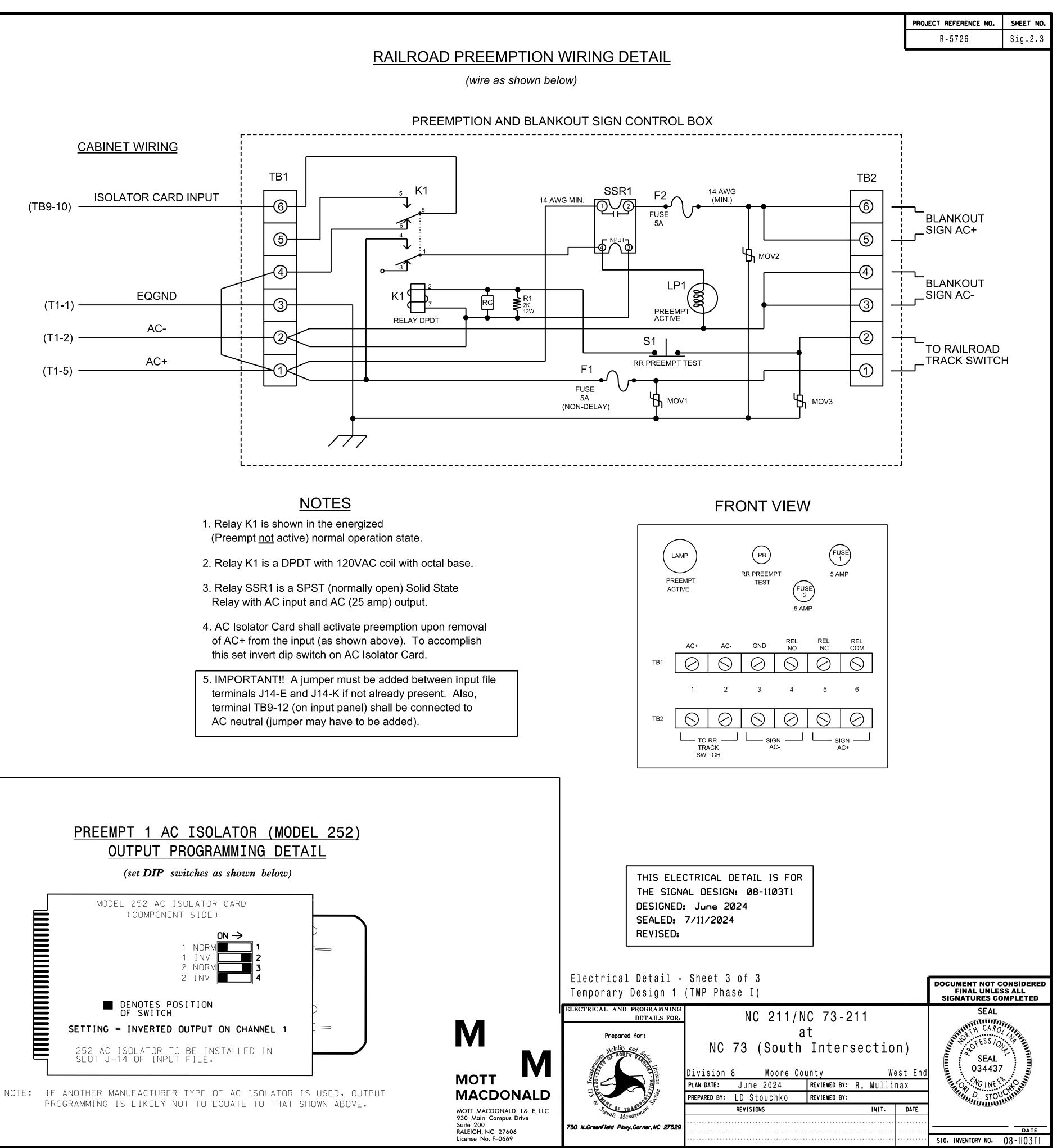
Main Menu >Controller >Preemption >Preempt Phasing/Preempt Parameters

### Web Interface

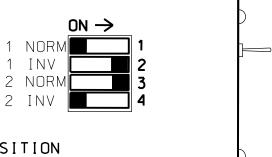
Home >Controller >Preempt Configuration >Preempts

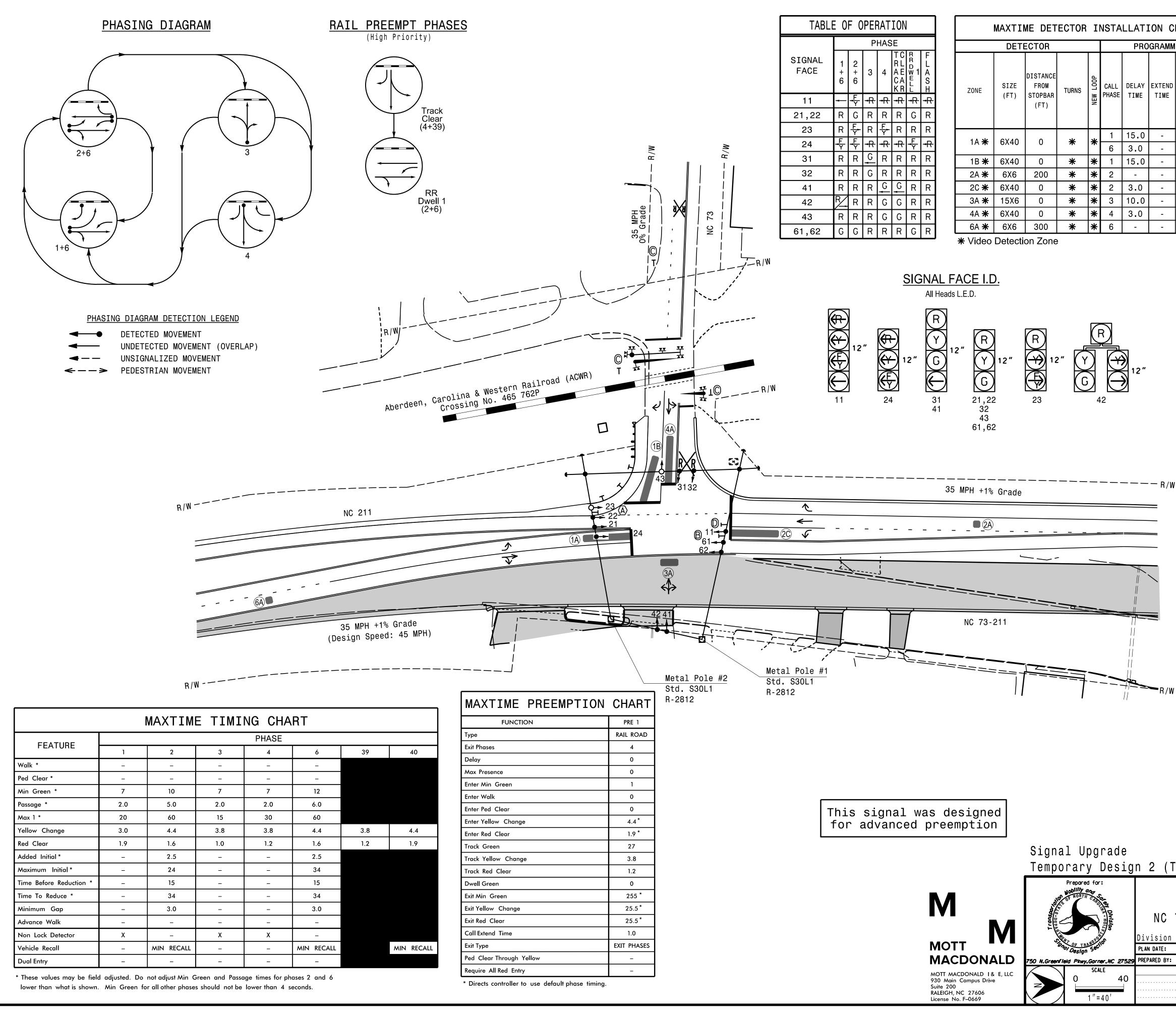
### Preempt Configuration

Preempt	1
Enabled	Enabled
Туре	Rail Road
Track Phases	4,39
Track Overlaps	
Dwell Phases	2,6
Dwell Peds	-
Dwell Overlaps	3
Cycling Phases	-
Cycling Peds	-
Cycling Overlaps	-
Exit Phases	4
Exit Overlaps	_
Delay	0
Call Ext Time	1.0
Max Presence	0
Max Pres Act	Terminate
Enter Min Green	1
Enter Walk	0
Enter Ped Clear	0
Enter Yellow Change	4.4
Enter Red Clear	2.4
Track Green	27
Track Yellow Clr	3.8
Track Red Clear	1.6
Dwell Green	0
Exit Min Green	255
Exit Yellow Change	25.5
Exit Red Clear	25.5
Exit Type	Exit Phases
Non Locking Memory	-
Not Ovrd Flash	Х
Not Ovrd Nxt Pre	-
Require All Red Entry	-
Track Clear Ovrd	Х
Ped Clear During Yellow	-
Entry Omit OLTG	Х
Track Reserve	Х









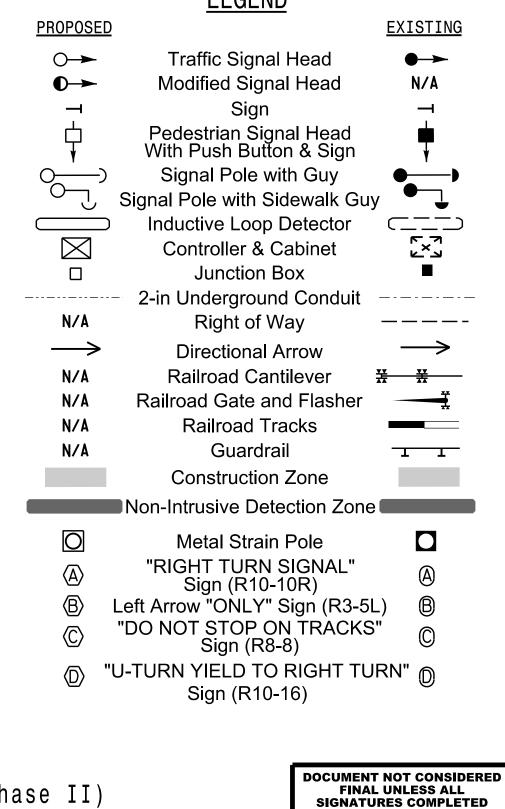
PROJECT REFERENCE NO.	SHEET NO.
R - 5726	Sig.3.0

TECTOR INSTALLATION CHART											
PROGRAMMING											
E	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD	
T	*	*	1	15.0	-	Х	-	Х	-	*	
	不	ѫ	6	3.0	-	Х	-	Χ	Χ	*	
	*	*	1	15.0	-	Х	-	Χ	-	*	
	*	*	2	-	-	Х	Х	Χ	-	*	
	*	*	2	3.0	-	Х	-	Χ	Х	*	
T	*	*	3	10.0	-	Х	-	Х	-	*	
	*	*	4	3.0	-	Х	-	Χ	-	*	
	*	*	6	-	-	Х	Χ	Χ	-	*	

### 4 Phase Fully Actuated With Railroad Preemption (Isolated)

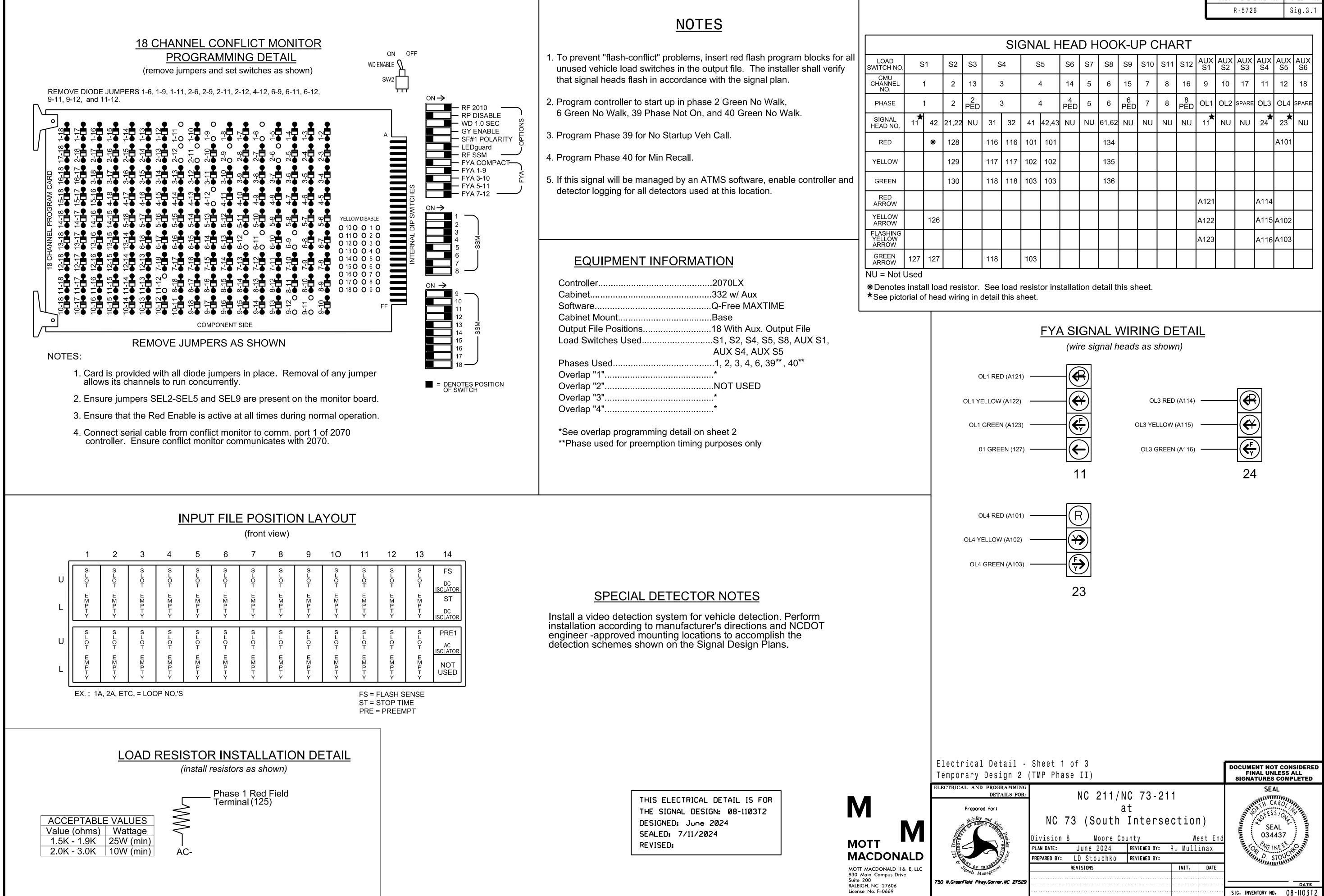
### <u>NOTES</u>

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 2. This location contains railroad preemption phasing. Do not program signal for late night flashing operation.
- 3. Phase 1 may be lagged.
- 4. The order of phase 3 and phase 4 may be reversed.
- 5. Reposition existing signal heads numbered 11,21,22,24,61 and 62.
- 6. Set all detector units to presence mode. 7. Program phase 40 to run
- concurrently with all phases during normal operation. Phase 39 must be incompatible with Phase 40 and included as a track clear phase.
- 8. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



nal upgraue			
porary Desig	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Prepared for: Nobility one NORTH Card Prise NORTH Card Prise North Card Prise North Card Prise Prepared for:	ANC 73 (South Division 8 Moore Co PLAN DATE: June 2024	NC 73-211 At Intersection) Dunty West End REVIEWED BY: R. Mullinax	SEAL HOFESS/OV SEAL 034437 Op WG INE PARA
eenfield Pkwy.Garner.NC 27529	PREPARED BY: LD Stouchko	REVIEWED BY:	D STOUTH
SCALE 0 40	REVISIONS	INIT. DATE	
1 " = 4 0 '			SIGNATURE DATE SIG. INVENTORY NO. 08-110372

### <u>LEGEND</u>



PROJECT REFERENCE NO. SHEET NO

	SIGNAL HEAD HOOK-UP CHART																	
52	S3	S	64	S	5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
2	13	ć	3	2	4	14	5	6	15	7	8	16	9	10	17	11	12	18
2	2 PED		3	2	4	4 PED	5	6	6 PED	7	8	8 PED	OL1		SPARE		OL4	
,22	NU	31	32	41	42,43	NU	NU	61,62	NU	NU	NU	NU	<b>★</b> 11	NU	NU	★ 24	23 <b>*</b>	NU
28		116	116	101	101			134									A101	
29		117	117	102	102			135										
30		118	118	103	103			136										
													A121			A114		
													A122			A115	A102	
													A123			A116	A103	
		118		103														

## OVERLAP PROGRAMMING

### Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

### Web Interface

Home >Controller >Overlap Configuration >Overlaps

Overlap Plan 1

Overlap	1	2	3	4
Туре	FYA 4 - Section	Off	FYA 4 - Section	FYA 4 - Section
Included Phases	2	-	6	2,4
Modifier Phases	1	-	-	-
Modifier Overlaps	-	-	-	-
Trail Green	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0

## MAXTIME STARTUP AND SOFTWARE FLASH PROGRAMMING DETAIL

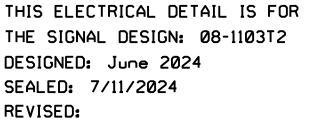
Front Panel Main Menu >Controller >Unit

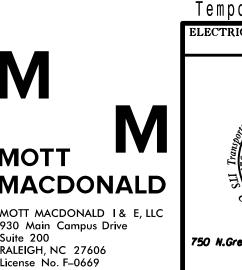
Web Interface Home >Controller >Unit

Modify parameters as shown below and save changes.

Startup Parameters	Unit Flash Parameters
Startup Clearance Hold	All Red Flash Exit Time
6	6

												PROJECT REF	ERENCE NO.	SHEET
												R - 57	726	Sig.:
	00190	JT CHAN	NEL COI	NFIGUR/	ATION									
	Front Panel Main Menu >	>Controller >	More>Chan	nels>Chann	els Confia									
					j									
	Web Interfac Home >Cont		nced IO>Ch	annels>Cha	nnels Confic	nuration								
						jaration								
	Channel Co	nfiguration												
	Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel							
	Channer													
	1	Phase Vehicle Phase Vehicle	1 2		X X	Х	1 2							
	3	Phase Vehicle	3		X	Х	3							
	4 5	Phase Vehicle Phase Vehicle	4 5		X X		4 5							
	6	Phase Vehicle Phase Vehicle	5 6		X X	Х	5 6							
	7	Phase Vehicle	7		X	V	7 8							
E	8	Phase Vehicle Overlap	8		X X	X X	8							
D	10	Overlap	2		Х	Х	10							
	11 12	Overlap Overlap	3 4		X X		11 12							
	13	Phase Ped	2				13							
	14 15	Phase Ped Phase Ped	4 6				14 15							
	16	Phase Ped	8				16							
	17 18	Overlap Overlap	5		X X	Х	17 18							
							Electrical					DOCU	MENT NOT C	
								esign 2 ( programming	TMP Phase 1	I)		Docu	MENT NOT CO FINAL UNLES NATURES CO SEAL	
	TΗ	IS ELECTRICA	L DETAIL IS	FOR			Temporary [ electrical and	PROGRAMMING DETAILS FOR:	TMP Phase 1	I) C 211/NC	73-211	Docu	FINAL UNLES NATURES CO	
	ТН	E SIGNAL DES	5IGN: 08-1103				Temporary D	PROGRAMMING DETAILS FOR:	TMP Phase I N	C 211/NC at		SIGI	FINAL UNLES NATURES CO	
	TH DE	E SIGNAL DES SIGNED: June	5IGN: 08-1103 • 2024				Temporary [ electrical and	PROGRAMMING DETAILS FOR: for:	TMP Phase I N NC 73	C 211/NC at (South In	ntersectio	n)	FINAL UNLES NATURES CO	
	TH DE SE	E SIGNAL DES	5IGN: 08-1103 • 2024		мотт	Μ	Temporary [ electrical and	esign 2 ( PROGRAMMING DETAILS FOR: for:	TMP Phase I N NC 73 Division 8 PLAN DATE: Ju	I) C 211/NC at (South Ir Moore Count Ine 2024 RE	ntersectio y W VIEWED BY: R. Mull	n) est End	FINAL UNLES NATURES CO SEAL	
	TH DE SE	E SIGNAL DES SIGNED: June ALED: 7/11/2	5IGN: 08-1103 • 2024		MOTT MACDO		Temporary [ electrical and	esign 2 ( PROGRAMMING DETAILS FOR: for:	TMP Phase I N NC 73 Division 8 PLAN DATE: Ju PREPARED BY: LD	I) C 211/NC at (South Ir Moore Count Ine 2024 RE Stouchko RE	ntersectio y w	n) est End	FINAL UNLES NATURES CO SEAL	
	TH DE SE	E SIGNAL DES SIGNED: June ALED: 7/11/2	5IGN: 08-1103 • 2024		MOTT MACDO	MALD I & E, LLC pus Drive	Temporary [ electrical and	esign 2 ( PROGRAMMING DETAILS FOR: for: for:	TMP Phase I N NC 73 Division 8 PLAN DATE: Ju	I) C 211/NC at (South Ir Moore Count Ine 2024 RE Stouchko RE	ntersectio y W VIEWED BY: R. Mull VIEWED BY:	n) est End Linax	FINAL UNLES NATURES CO SEAL	





## **SEQUENCE DETAIL**

Front Panel

Main Menu >Controller >Sequence & Phs Config>Sequences

### Web Interface

Home >Controller >Sequence

Sequence 1

Ring	Sequence Data
1	1,2,a,3,4,b
2	5,6,a,7,8,b
3	39,c,40,d

### PREEMPTION PROGRAMMING

Front Panel

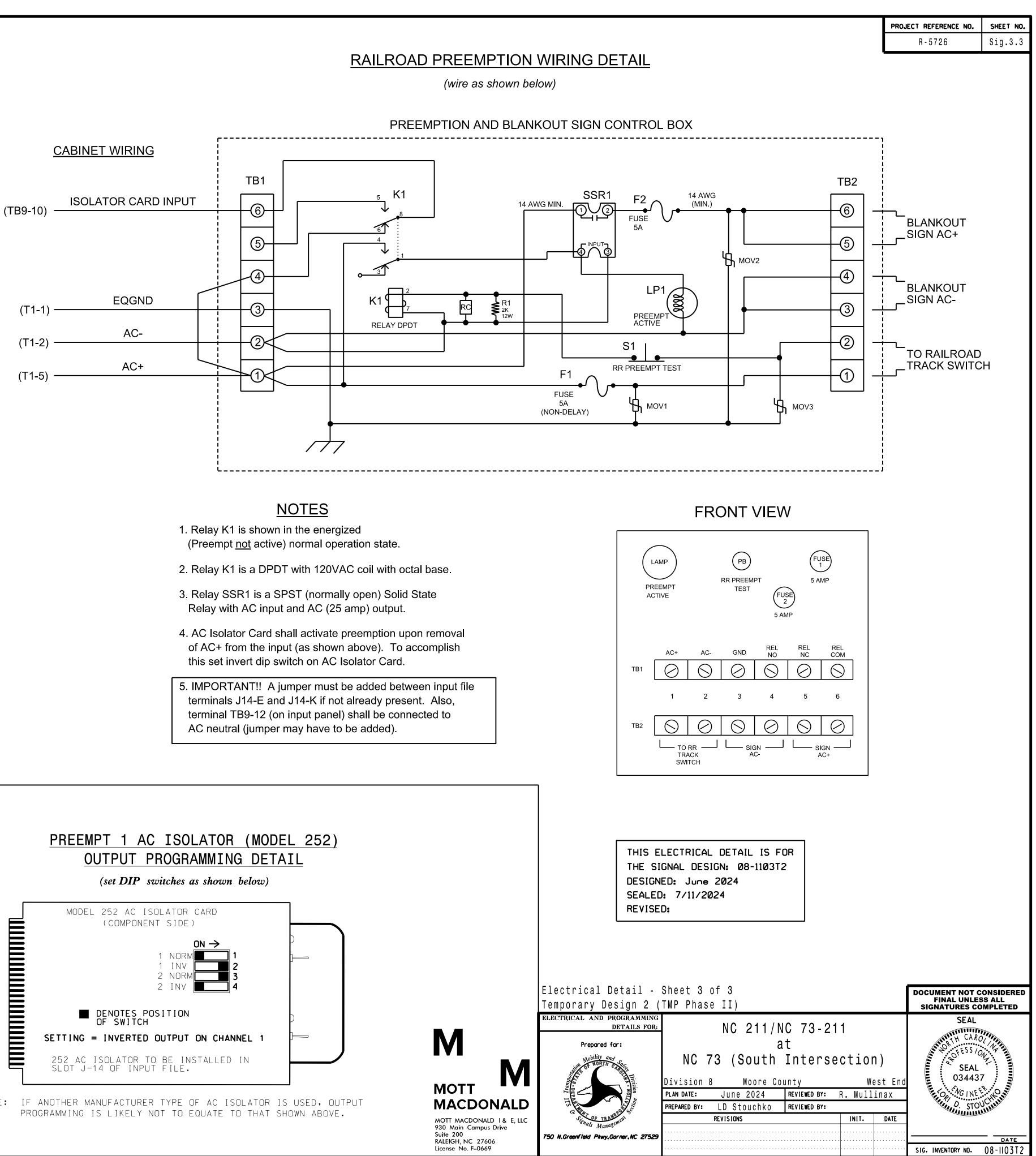
Main Menu >Controller >Preemption >Preempt Phasing/Preempt Parameters

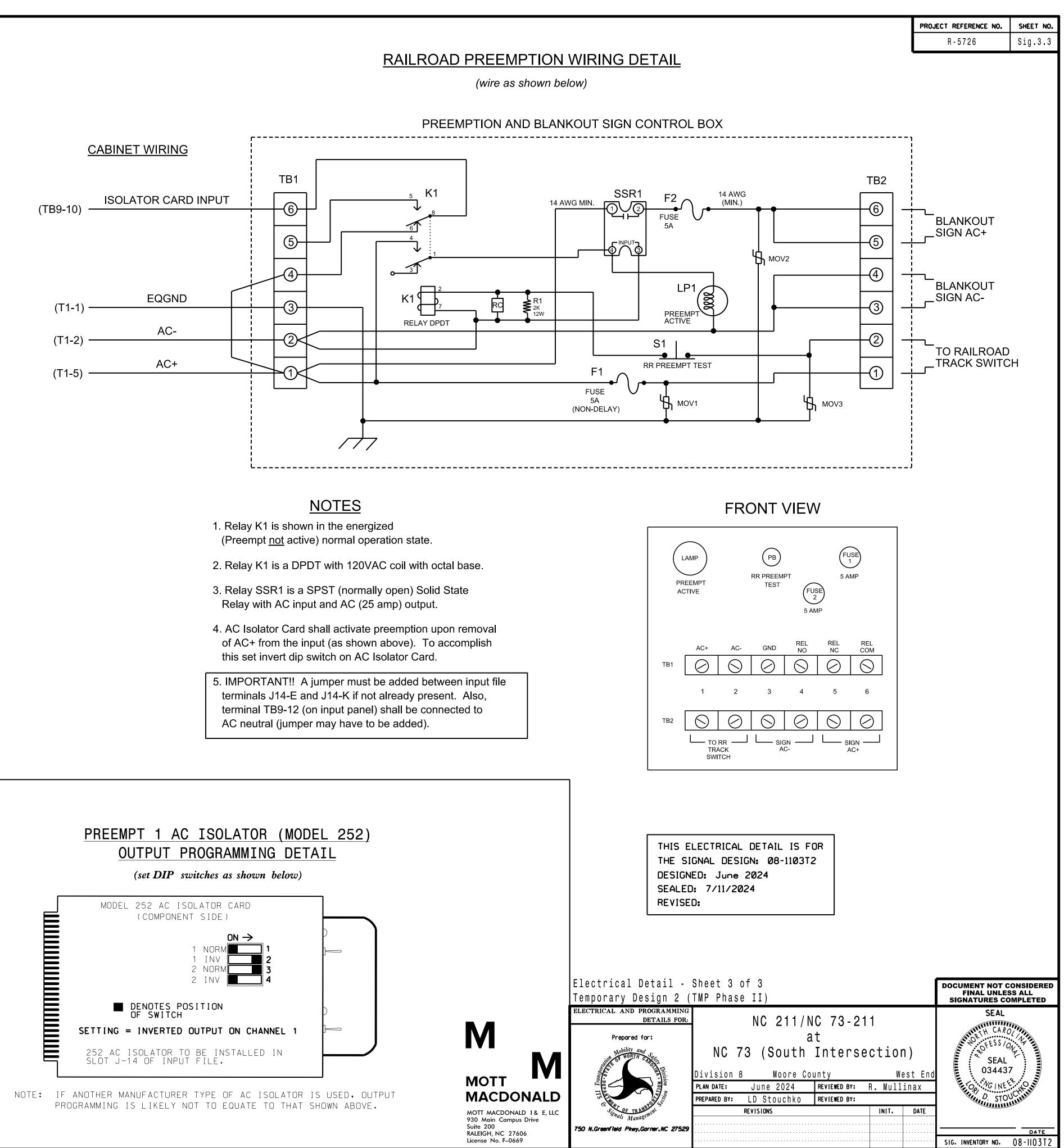
Web Interface

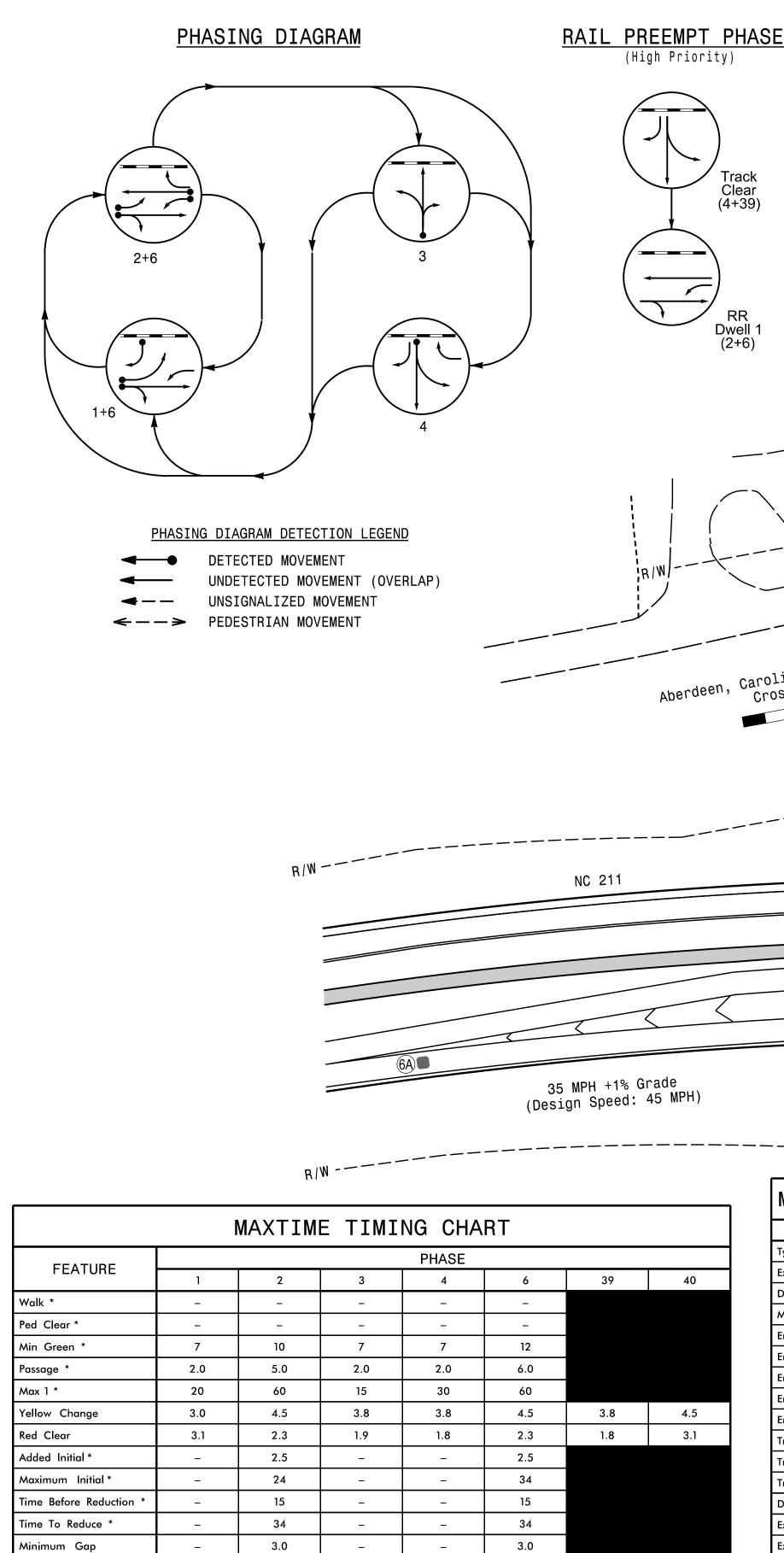
Home >Controller >Preempt Configuration >Preempts

### Preempt Configuration

Preempt	1
Enabled	Enabled
Туре	Rail Road
Track Phases	4,39
Track Overlaps	-
Dwell Phases	2,6
Dwell Peds	-
Dwell Overlaps	3
Cycling Phases	-
Cycling Peds	-
Cycling Overlaps	-
Exit Phases	4
Exit Overlaps	4
Delay	0
Call Ext Time	1.0
Max Presence	0
Max Pres Act	Terminate
Enter Min Green	1
Enter Walk	0
Enter Ped Clear	0
Enter Yellow Change	4.4
Enter Red Clear	1.9
Track Green	27
Track Yellow Clr	3.8
Track Red Clear	1.2
Dwell Green	0
Exit Min Green	255
Exit Yellow Change	25.5
Exit Red Clear	25.5
Exit Type	Exit Phases
Non Locking Memory	-
Not Ovrd Flash	Х
Not Ovrd Nxt Pre	Х
Require All Red Entry	-
Track Clear Ovrd	Х
Ped Clear During Yellow	-
Entry Omit OLTG	Х
Track Reserve	Х







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

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MIN RECALL

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MIN RECALL

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MIN RECALL

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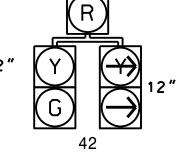
Advance Walk

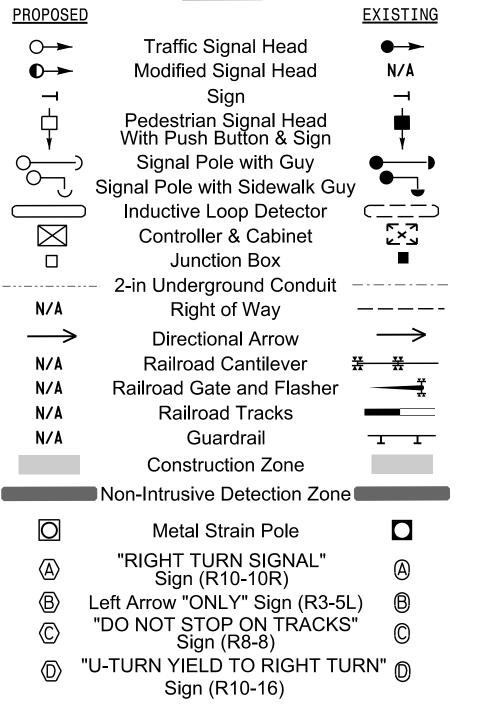
Vehicle Recall

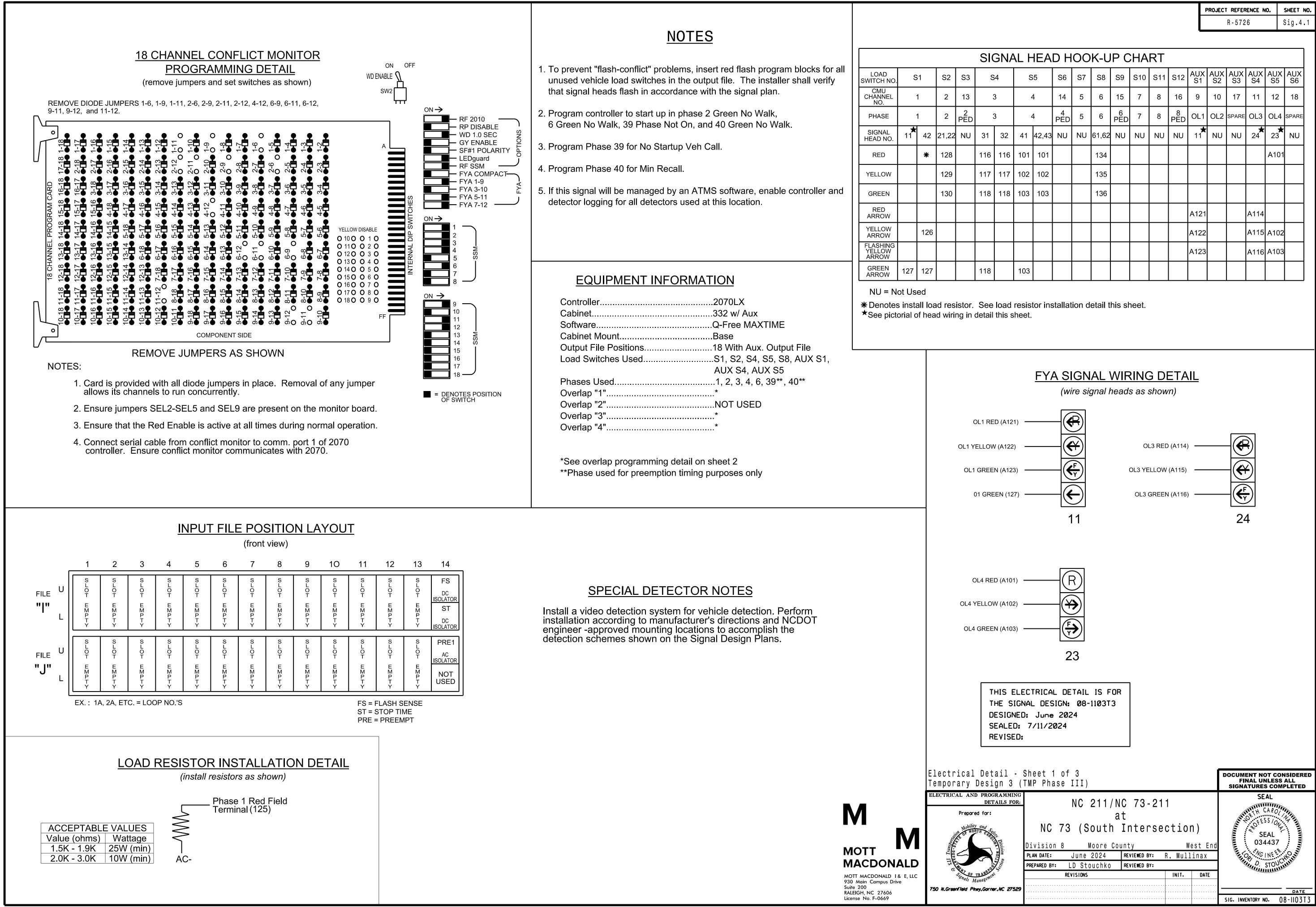
Dual Entry

Non Lock Detector

				PROJECT REFERENCE NO. SHEET NO.
ASES	TABLE OF OPERATION	MAXTIME DETECTOR INSTA		R-5726 Sig.4.0
	PHASE			
		DETECTOR	PROGRAMMING	4 Phase
	SIGNAL 1 2 RL L FACE + + 3 4 AEW1 A		AL	Fully Actuated
		SIZE FROM TURNO CALL	DELAY EXTEND ON J ON V	With Railroad Preemption
	11 <del>-</del>	ZONE (FT) STOPBAR TURNS TOPHASE	DELAY EXTEND ANT	(Isolated)
	21,22 R G R R R G R	(FT)	ADDE ADDE	Ϋ́Υ, Ϋ́Υ`, Ϋ́Υ, Ϋ́Υ`, Υ``, Ϋ́Υ`, Υ``, Υ``, Υ``, Υ``, Υ``, Υ``, Υ`, Υ`
	23 R - R - R R R = -		DEL	<u>NOTES</u>
	24 <del>-</del> <del></del> - <del>-</del> - <del>-</del> - <del>-</del> - <del>-</del> - <del>-</del> - <del>-</del> - <del></del>	1A <b>*</b> 6X40 0 <b>* *</b> 1	15.0 - X - X - <b>*</b>	1. Refer to "Roadway Standard
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6	3.0 - X - X X <b>*</b>	Drawings NCDOT" dated January
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		15.0 - X - X - <b>*</b>	2018 and "Standard Specifications
		2A <b>*</b> 6X6 200 <b>* *</b> 2	X X X - <b>*</b>	for Roads and Structures" dated
1		2C **     6X40     0     **     *     2       3A **     15X6     0     **     **     3	3.0 X X X <b>*</b> 10.0 X X <b>*</b>	January 2018. 2. This location contains
	$42  \overrightarrow{R}  \overrightarrow{R}  \overrightarrow{G}  \overrightarrow{G}  \overrightarrow{R}  $	3A *     15X6     0     *     *     3       4A *     6X40     0     *     *     4	10.0 - X - X - <b>*</b> 3.0 - X - X - <b>*</b>	railroad preemption phasing.
35 MPH 0% Grade		6A <b>*</b> 6X6 300 <b>* *</b> 6		Do not program signal for late
	61,62 G G R R R G R L	In the second secon		night flashing operation.
				3. Phase 1 may be lagged.
	N			4. The order of phase 3 and phase
	SIGNAL FACE	EI.D.		<ul><li>4 may be reversed.</li><li>5. Reposition existing signal heads</li></ul>
	All Heads L.E.D			numbered 11,21,22,24,61 and 62.
				6. Set all detector units to presence mode.
	( <del>(R)</del>			7. Program phase 40 to run
	$\left( \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\overline{R}$ $\overline{R}$ $\overline{R}$		concurrently with all phases during
				normal operation. Phase 39 must be
		$\begin{array}{c} Y \\ 12'' \\ \end{array} \begin{array}{c} Y \\ 12'' \\ \end{array} \begin{array}{c} Y \\ 12'' \\ \end{array} \begin{array}{c} Y \\ Y \\ 12'' \\ \end{array} \begin{array}{c} Y \\ 12'' \\ \end{array} $	- "	incompatible with Phase 40 and included
rolina & Western Railroad (ACWR) T + Crossing No. 465 762P			2 "	as a track clear phase. 8. This intersection uses video detection.
rolina & Western Railroad ( $R$				Install detectors according to the
crossing No. 465 702.	11 24 31 2 41	21,22 23 42 32		manufacturer's instructions to achieve
	-	43		the desired detection.
	e de la companya de l	62		
				LEGEND
	<u></u>		PROPOS	
43 31 32	35 MDU	 0% Grade	—— К/W	
	55 MFH		$ \longrightarrow $	5
22	~			Sign –
$\rightarrow 21$	<u> </u>	D2A	 	Pedestrian Signal Head With Push Button & Sign
			₹	
				-) Signal Pole with Guy
				<ul> <li>Signal Pole with Sidewalk Guy</li> <li>Inductive Loop Detector</li> </ul>
				Controller & Cabinet
				Junction Box
				2-in Underground Conduit
		73-211	N/A	Right of Way
			N/A	Railroad Cantilever 😤 😤
			N/A	Railroad Gate and Flasher
Metal Pole #2 Std. S30L1	<u>-L- Sta.19+01 +/-</u> 49.5'+/- RT		N/A —— <i>R</i> / <i>W</i> N/A	Railroad Tracks
MAXTIME PREEMPTION CHART R-2812				Construction Zone
FUNCTION PRE 1			_	Non-Intrusive Detection Zone
Type RAIL ROAD				
Exit Phases 4			O	Metal Strain Pole
Delay 0			$\langle \Delta \rangle$	"RIGHT TURN SIGNAL" Sign (R10-10R)
Max Presence 0			B	Left Arrow "ONLY" Sign (R3-5L) B
Enter Min Green 1				"DO NOT STOP ON TRACKS" © Sign (R8-8)
Enter Walk 0				
Enter Ped Clear0Enter Yellow Change4.5 *			$\bigcirc$	"U-TURN YIELD TO RIGHT TURN" D Sign (R10-16)
Enter Red Clear 3.1*				
Track Green 27				
Track Yellow Change 3.8		Signal Upgrade	• · · · · · · · ·	DOCUMENT NOT CONSIDERED
Track Red Clear 1.8			n 3 (TMP Phase III	FINAL UNTIL ALL SIGNATURES COMPLETED
Dwell Green 0		Prepared for:	NC 211/NC	SEAL
Exit Min Green 255 *		NOR OF NORTH CARE		IU-LII
Exit Yellow Change 25.5*			at NC 73 (South I	ntersection)
Exit Red Clear         25.5*           Call Extend Time         1.0			, , , , , , , , , , , , , , , , , , ,	
	s signal was designed MOTT		Division 8 Moore Count	
Ped Clear Through Yellow – for		ONALD 750 N.Greenfield Pkwy.Garner.NC 27525		VIEWED BY: R. Mullinax
Require All Red Entry _	мотт масро	NALD 1& E. LLC	REVISIONS	INIT. DATE
* Directs controller to use default phase timing.	930 Main Can Suite 200	npus Drive 0 40		
	RALEIGH, NC : License No. F-			SIGNATURE DATE SIG. INVENTORY NO. 08-110313







PROJECT REFERENCE NO.	SHEET
R-5726	Sig 4

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2	S3	S	64	S	\$5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
2	13	:	3		4	14	5	6	15	7	8	16	9	10	17	11	12	18
2	PED	:	3		4	4 PED	5	6	6 PED	7	8	8 PED			SPARE	OL3	OL4	SPARE
22	NU	31	32	41	42,43	NU	NU	61,62	NU	NU	NU	NU	<b>★</b> 11	NU	NU	<b>★</b> 24	23 <b>*</b>	NU
28		116	116	101	101			134									A101	
29		117	117	102	102			135										
30		118	118	103	103			136										
													A121			A114		
													A122			A115	A102	
													A123			A116	A103	
		118		103														

## OVERLAP PROGRAMMING

### Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

### Web Interface

Home >Controller >Overlap Configuration >Overlaps

Overlap Plan 1

Overlap	1	2	3	4
Туре	FYA 4 - Section	Off	FYA 4 - Section	FYA 4 - Section
Included Phases	2	-	6	2,4
Modifier Phases	1	-	-	-
Modifier Overlaps	-	-	-	-
Trail Green	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0

## MAXTIME STARTUP AND SOFTWARE FLASH PROGRAMMING DETAIL

Front Panel Main Menu >Controller >Unit

Web Interface Home >Controller >Unit

Modify parameters as shown below and save changes.

Startup Parameters	
Startup Clearance Hold	ł
6	

Unit Flash Parameters All Red Flash Exit Time 6

the second	I											
<section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header>											<b>PROJECT REFERENCE NO</b> R - 5726	
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			<u>OUTPU</u>	IT CHAN	NEL CO	NFIGURA	ATION					
			Front Panel									
				Controller >	More>Chan	nels>Chann	els Config					
			Web Interfac	e								
					nced IO>Ch	annels>Cha	nnels Config	guration				
			Channal Car	figuration								
			Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel			
		NOTICE	1					Х	1			
		PHASE 2	2 3				A V	X				
			4				v					
			6	Phase Vehicle	6		Х	Х	6			
			1		/		^	Х	/			
		FLASH RED			I							
		NOTICE OVERLAP 3 FLASH RED	11	Overlap	3		Х	~	11			
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Image But is in the state of the state												
Image: space is a state in the space is a state i			16	Phase Ped	8		~	V	16			
THIS ELECTRICAL DESIGN B0-10373         DSIGNED void 2004         REVISED:							v	^				
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN 80-10373 DESIGNED: June 2024 ReviseD:       Seet 2 of 3 Tapporary Design 3 (TMP Phase III)       Document our consummers tapporary Design 3 (TMP Phase III)         MM MOTT ReviseD:       Mott SealeD: 7/11/2024 ReviseD:       NC 211/NC 73-211 at NC 73 (Suth Intersection)       Seale Too Too Too Too Too Too Too Too Too Too												
THIS ELECTRICAL DETAIL IS FOR       Decompary box       Decompary box <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 80-100313 DESIGNED: June 2024 SEALED: 7/11/2024 ReviseD;       Seale Design 3 (TWP Phase 111)       Document Gor Considered toward use conserved standarding conserved toward use conser												
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-100313 DESIGN: 08-1												
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-1103T3 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     MANUALESS ALL DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     NC 211/NC 73-211 at NC 73 (South Intersection)     SEAL DESIGNED: June 2024 SEAL Division 8 Moore County West End Oddata       MOTT MACODALD LA F.LIC SWID 200 SWID 200	<u>H</u>											
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-1103T3 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     MANUESS ALL DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     NC 211/NC 73-211 at NC 73 (South Intersection)     SEAL DESIGNED: June 2024 SEAL Division 8 Moore County West End O34437												
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-1103T3 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     MANUALESS ALL DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     NC 211/NC 73-211 at NC 73 (South Intersection)     SEAL DESIGNED: June 2024 SEAL Division 8 Moore County West End Oddata       MOTT MACODALD LA F.LIC SWID 200 SWID 200												
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THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-1103T3 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     Temporary Design 3 (TMP Phase III)     Imporary Design 3 (TMP Phase III)												
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-1103T3 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     Temporary Design 3 (TMP Phase III)     Imporary Design 3 (TMP Phase III)												
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-1103T3 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     Temporary Design 3 (TMP Phase III)     Imporary Design 3 (TMP Phase III)												
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-1103T3 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     MM     MM     NC 211/NC 73-211 BETAILS FOR TO KOORAMMING DETAILS FOR NC 73 (South Intersection)     SEAL NC 73 (South Intersection)       Division 8     Noore County     West End Not No Conton to 18 € LLC States 70 Marketor Nr. 22706     NIT. DATE												
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-1103T3 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:     MM     MM     NC 211/NC 73-211 BETAILS FOR: NC 73 (South Intersection)     SEAL NC 73 (South Intersection)       Division 8     Moore County     West End 034437       MOTT MACCONALD IA E, LIC Sold Micconal Division 8     Moore County     West End NIT:       Motor Conal Division 8     Moore County     West End NIT:       Prepared br:     Division 8     Moore County     Net End NIT:       Motor Micconal Divisions     Reviewed Br:     NIT:     Division 5       Motor Micconal Divisions     NIT:     Divisions     NIT:       Motor Micconal Divisions     NIT:     Divisions     NIT:       Matter June 2024     Reviewed Br:     NIT:     Divisions       Motor Micconal Divisions     NIT:     Divisions     NIT:       Micro Micro Micconal Divisions     NIT:     Divisions     NIT:       Micro Micro Micconal Divisions     NIT:     Divisions     Divisions												
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THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-1103T3 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED:       MACT MOTT MACDONALD 18 E, LIC 90 Main Campus Drive Sheled, NC 27606       MC 211/NC 73-211 at NC 73 (South Intersection)         DIVISION 8       Moore County       West End Prepared BY: LD Stouchko         MOTT MACDONALD 18 E, LIC 90 Main Campus Drive Sheled, NC 27606       NIT. DATE		<b>r</b>						Τe	emporary Desig	gn 3 (ТМР Phase III) камміюд		
Designed       2024         SEALED:       7/11/2024         REVISED:       MOTT         MOTT MACDONALD 1& E, LLC       NOT MACDONALD 1& E, LLC         930 Main Campus Drive       Suite 202         Suite 200       REVISIONS         NOT MACDONALD 1& E, LLC       State 2024         PREPARED BY:       LD Stouchko         REVISIONS       INIT.         Date       Date							КЛ	F	DETA	AILS FOR: NC 211/NC 73-211		AROL IT
MICTT         MACDONALD         MOTT MACDONALD 1& E, LLC         930 Main Campus Drive         Suite Compus Drive         Suite Comput D		DESIGNED: J	June 2024						Mobility and Selection		ion)	S /ON P
MACDONALD     Image: Management       MOTT MACDONALD 1 & E, LLC     File       930 Main Campus Drive     Management       Suite 200     REVISIONS       RALEIGH, NC 27606     750 N.Greenfield Prwy.Garner.NC 27529			11/2024				ΜΟΤΤ			Division 8 Moore County	West End	
930 Main Campus Drive     **###################################		L					MACDON		H. C.	PREPARED BY: LD Stouchko REVIEWED BY:	Children D. S	TOUCHUNIN
RALEIGH, NC 27606 License No. F-0669							MOTT MACDONALD 930 Main Campus I Suite 200	I&E,LLC Drive 75	<i>Singly Management</i> 50 N.Greenfield Pkwy.Garner.			
							KALEIGH, NC 27606 License No. F–0669	)			SIG. INVENTORY NO	

## **SEQUENCE DETAIL**

Front Panel

Main Menu >Controller >Sequence & Phs Config>Sequences

### Web Interface

Home >Controller >Sequence

Sequence 1

Ring	Sequence Data
1	1,2,a,3,4,b
2	5,6,a,7,8,b
3	39,c,40,d

## **PREEMPTION PROGRAMMING**

Front Panel

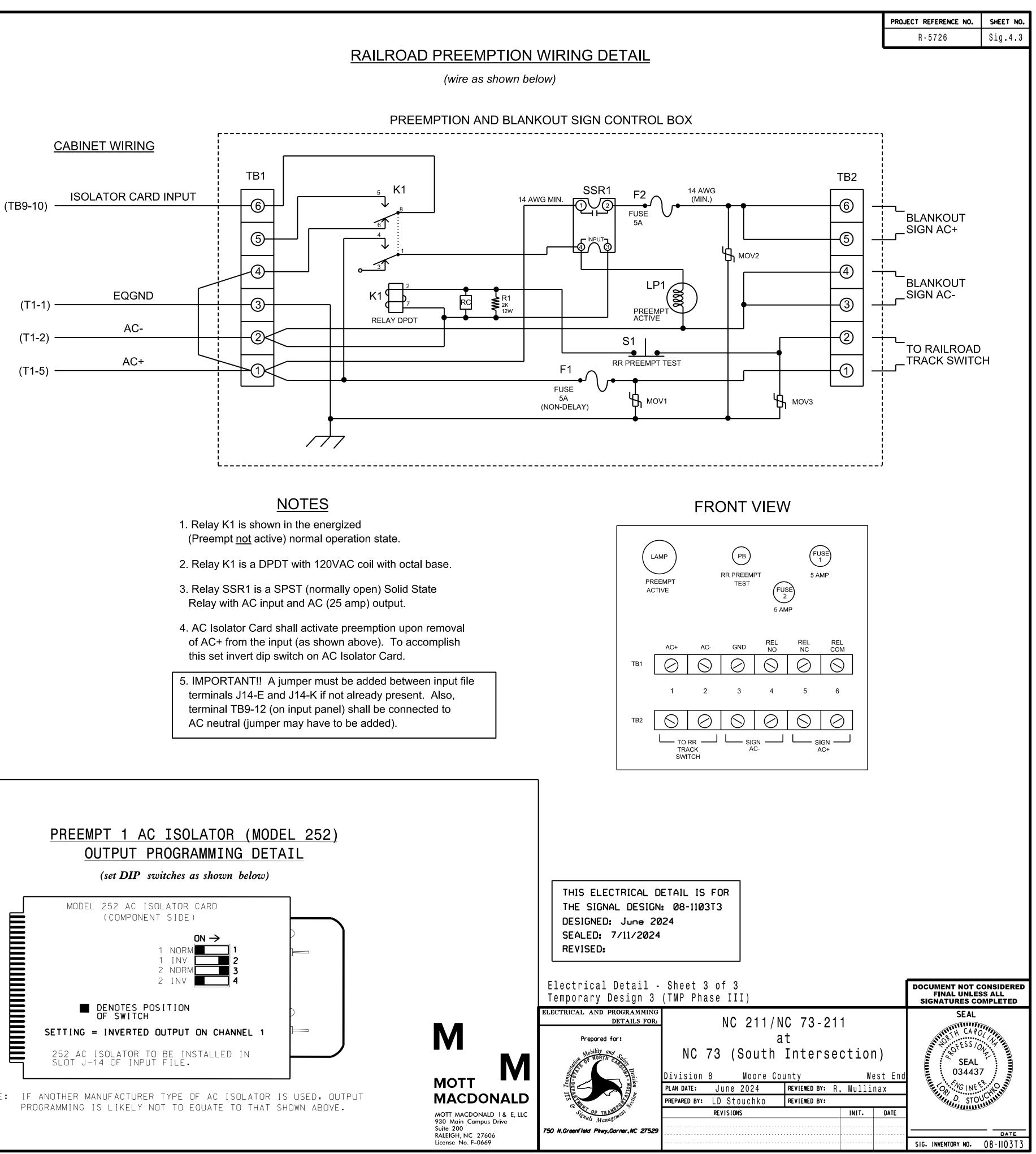
Main Menu >Controller >Preemption >Preempt Phasing/Preempt Parameters

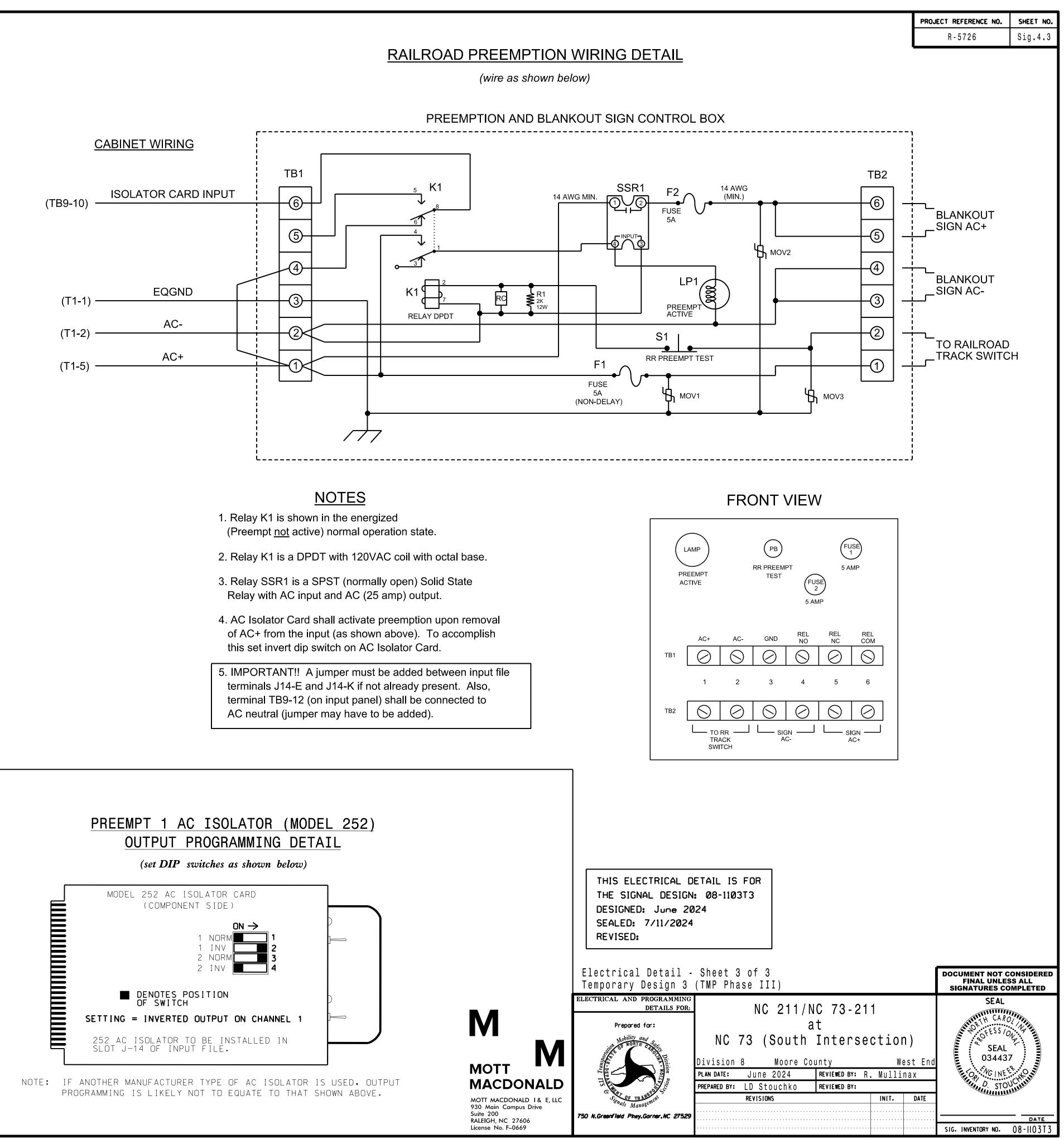
Web Interface

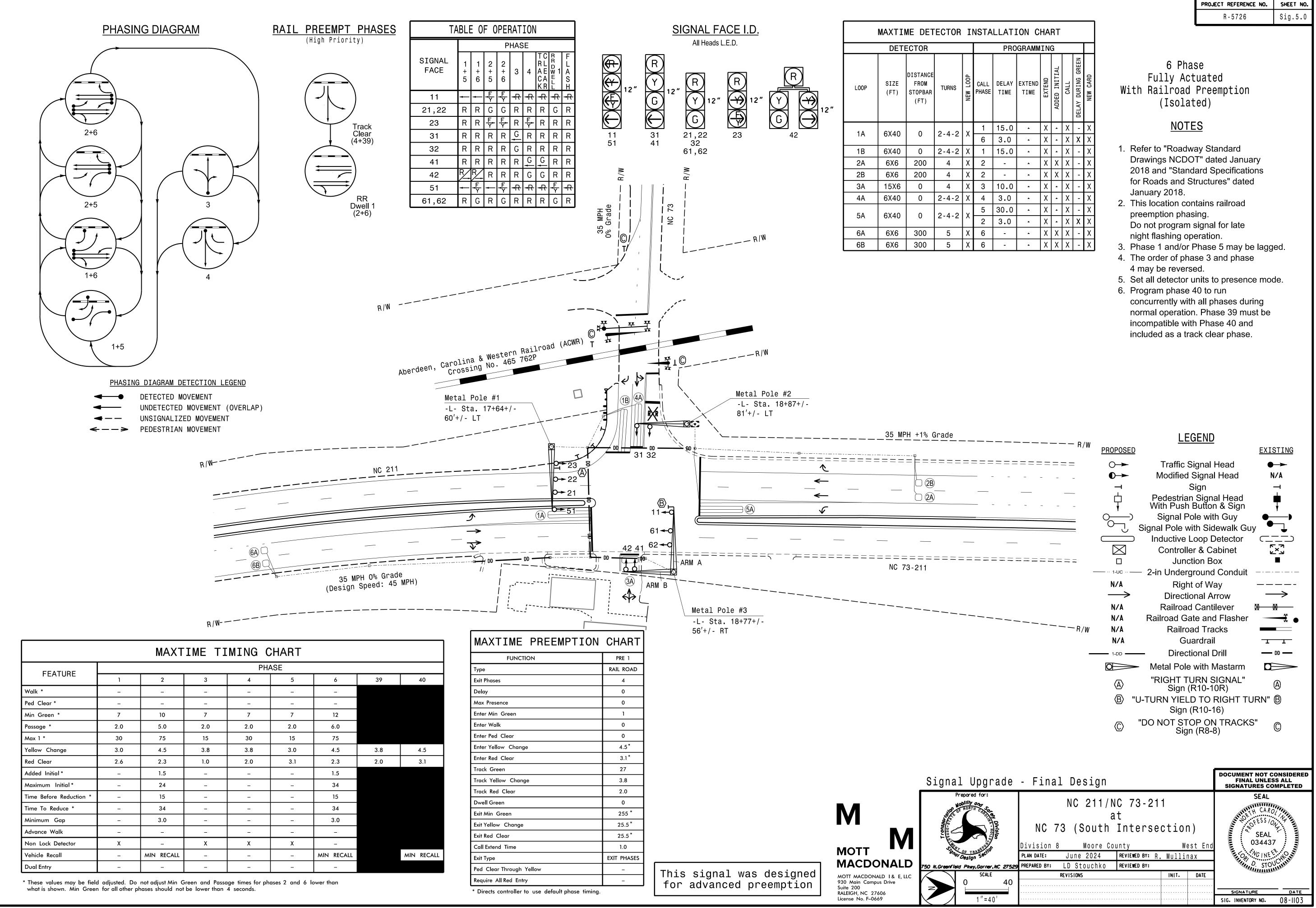
Home >Controller >Preempt Configuration >Preempts

Preempt Configuration

Preempt1EnabledEnabledTypeRail RoadTrack Phases4,39Track Overlaps-Dwell Phases2,6Dwell Peds-Dwell Overlaps3Cycling Phases-Cycling Peds-Cycling Overlaps-Exit Phases4Delay0Call Ext Time1.0Max Presence0Max Pres ActTerminateEnter Min Green1Enter Valk0Enter Ped Clear0Enter Ped Clear0Enter Red Clear3.1Track Green27Track Green27Track Red Clear1.8Dwell Green0Exit Min Green255Exit Min Green25.5Exit Min Green25.5Exit Red Clear25.5Exit TypeExit PhasesNot Ovrd FlashX		•
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Exit Red Clear25.5Exit TypeExit PhasesNon Locking Memory-	Exit Min Green	255
Exit TypeExit PhasesNon Locking Memory-	Exit Yellow Change	25.5
Non Locking Memory -	Exit Red Clear	25.5
	Exit Type	Exit Phases
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	Not Ovrd Flash	Х
Not Ovrd Nxt Pre -	Not Ovrd Nxt Pre	-
Require All Red Entry -	Require All Red Entry	-
Track Clear Ovrd X	Track Clear Ovrd	X
Ped Clear During Yellow -	Ped Clear During Yellow	-
Entry Omit OLTG X	Entry Omit OLTG	Х
Track Resonue V	Track Reserve	Х

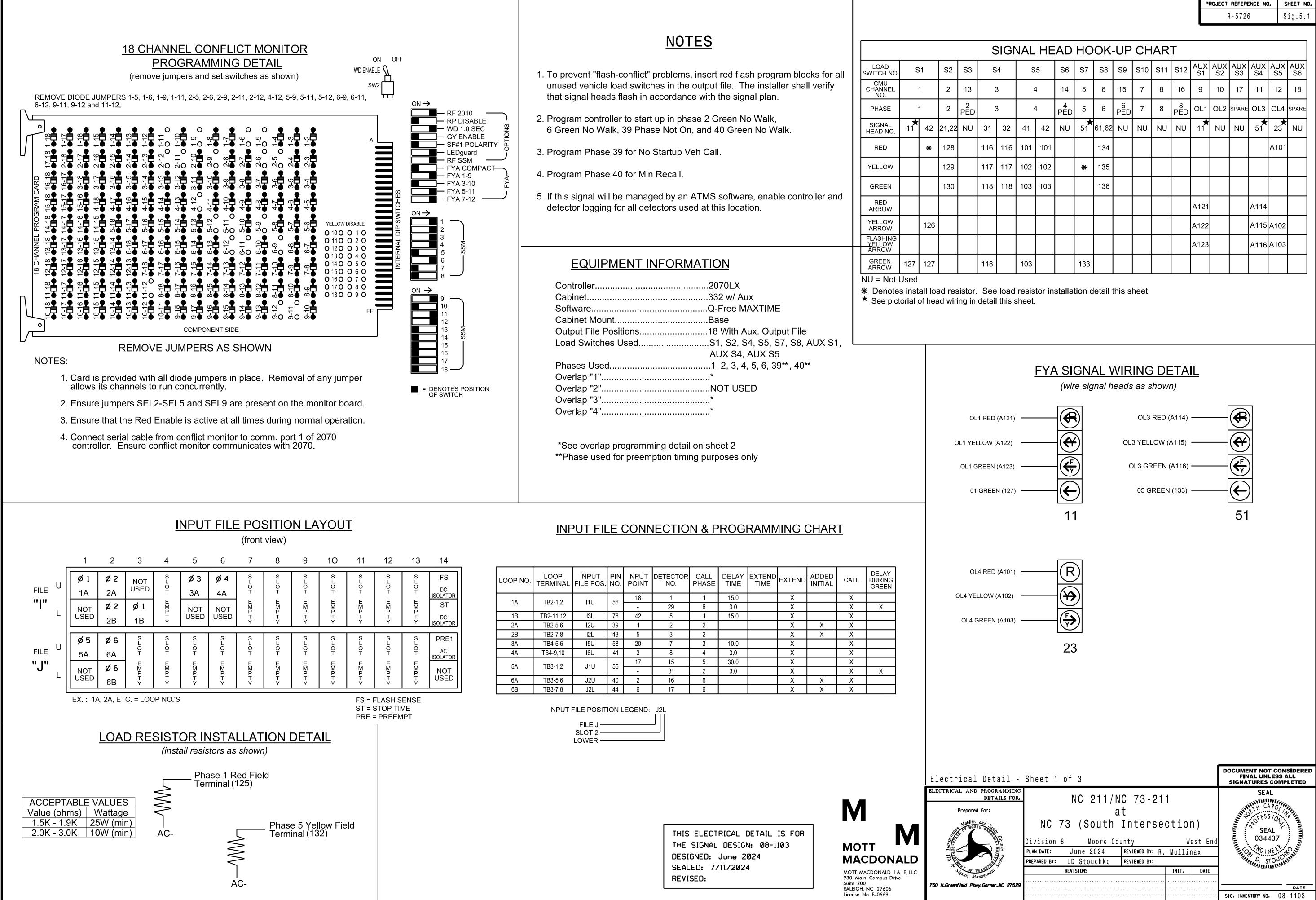






PROJECT REFERENCE NO.	SHEET NO.
R-5726	Sig.5.0

TOR INSTALLATION CHART												
PROGRAMMING												
URNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD			
-4-2	х	1	15.0		Х	4	Х	-	Х			
-4-2	^	6	3.0	÷	Х	4	Х	Χ	Х			
-4-2	Χ	1	15.0	÷	Х	4	Х	-	Х			
4	Χ	2	-	÷	Х	Х	Х	-	Х			
4	Χ	2	-	+	Х	Х	Х	-	Х			
4	Х	3	10.0	+	Х	4	Х	-	Х			
-4-2	Χ	4	3.0	÷	Х	4	Х	-	Х			
-4-2	v	5	30.0	*	Х	4	Х	-	Х			
-4-2	Х	2	3.0	*	- X - X		Х	Х	Х			
5	Х	6	-	-	Х	Х	Х	-	Х			
5	Х	6	-	-	Х	Х	Х	-	Х			



_													-
	LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	pin No.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
<u> </u>	1A	TB2-1,2	I1U	56	18	1	1	15.0		Х		Х	
	IA	102-1,2	ΠŪ	50	-	29	6	3.0		Х		Х	Х
	1B	TB2-11,12	I3L	76	42	5	1	15.0		Х		Х	
	2A	TB2-5,6	I2U	39	1	2	2			Х	Х	Х	
ור	2B	TB2-7,8	I2L	43	5	3	2			Х	Х	Х	
	3A	TB4-5,6	15U	58	20	7	3	10.0		Х		Х	
	4A	TB4-9,10	16U	41	3	8	4	3.0		Х		Х	
41	5A	TB3-1,2	J1U	55	17	15	5	30.0		Х		Х	
	JA	103-1,2	310	55	-	31	2	3.0		Х		Х	Х
	6A	TB3-5,6	J2U	40	2	16	6			Х	Х	Х	
<u>-</u> ]	6B	TB3-7,8	J2L	44	6	17	6			Х	Х	Х	

PROJECT REFERENCE NO.

		S	SIGN	JAL	HE	AD	HO	OK-	-UP	СН	AR	Т						
S2	S3	s	64	s	5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
2	13	:	3	2	4	14	5	6	15	7	8	16	9	10	17	11	12	18
2	2 PED	;	3	2	4	4 PED	5	6	6 PED	7	8	8 PED	OL1		SPARE	OL3		SPARE
1,22	NU	31	32	41	42	NU	<b>★</b> 51	61,62	NU	NU	NU	NU	★ 11	NU	NU	★ 51	23 <b>*</b>	NU
28		116	116	101	101			134									A101	
29		117	117	102	102		*	135										
30		118	118	103	103			136										
													A121			A114		
													A122			A115	A102	
													A123			A116	A103	
		118		103			133											

## OVERLAP PROGRAMMING

### Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

### Web Interface

Home >Controller >Overlap Configuration >Overlaps

Overlap Plan 1

Overlap	1	2	3	4
Туре	FYA 4 - Section	Off	FYA 4 - Section	FYA 4 - Section
Included Phases	2	-	6	2,4
Modifier Phases	1	-	5	-
Modifier Overlaps	-	-	-	-
Trail Green	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0

## **OUTPUT CHANNEL CONFIGURATION**

Front Panel

Main Menu >Controller >More>Channels>Channels Config

### Web Interface

Home >Controller >Advanced IO>Channels>Channels Configuration

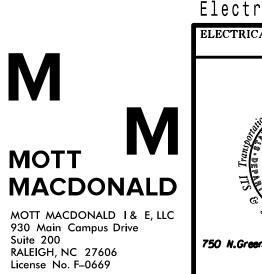
### Channel Configuration

	Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	Ν
	1	Phase Vehicle	1		Х	Х	+
NOTICE PHASE 2	2	Phase Vehicle	2		Х		Τ
FLASH RED	3	Phase Vehicle	3		Х	Х	T
	4	Phase Vehicle	4		Х		T
	5	Phase Vehicle	5		Х		Τ
	6	Phase Vehicle	6		Х	Х	Τ
FLASH RED	7	Phase Vehicle	7		Х		T
	8	Phase Vehicle	8		Х	Х	T
	9	Overlap	1		Х	Х	Τ
FLASH RED	10	Overlap	2		Х	Х	T
NOTICE OVERLAP 3	11	Overlap	3		Х		Т
FLASH RED	12	Overlap	4		Х		Т
	13	Phase Ped	2				Т
	14	Phase Ped	4				Т
	15	Phase Ped	6				Т
	16	Phase Ped	8				Т
	17	Overlap	5		Х	Х	Т
	18	Overlap	6		Х		Т

			r	
			PROJECT REFERENCE NO. R-5726	SHEET NO. Sig.5.2
				5-91012
MAXTIME STARTUP AND SOFT	WARE FLASH			
PROGRAMMING DET				
Front Panel				
Main Menu >Controller >Unit				
Web Interface				
Home >Controller >Unit				
Modify parameters as shown below and ca	vo obongos			
Modify parameters as shown below and say				
Startup Parameters Unit Flash Parar				
Startup Clearance Hold All Red Flash Ex	it Time			
6 6				
				ONSIDEDED
	Electrical Detail -	Sheet 2 of 3	DOCUMENT NOT C FINAL UNLES SIGNATURES CO	SS ALL MPLETED
	ELECTRICAL AND PROGRAMMING DETAILS FOR:		SEAL	
2024 24	Prepared for:	at	THE CARC	
	Mobility and Sector	NC 73 (South Intersection)		
	Trunke and the second	Division 8Moore CountyWesPLAN DATE:June 2024REVIEWED BY: R. Mullina	t End	
MACDONALD		PREPARED BY: LD Stouchko REVIEWED BY:	D. STO	ucrine .
MOTT MACDONALD 1 & E, LLC 930 Main Campus Drive Suite 200	750 N.Greenfield Phwy.Gorner.NC 27529		DATE	
RALEIGH, NC 27606 License No. F–0669				08-1103

Alt	MMU Channel
	1
	2
	2 3
	4
	5
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	16
	17
	18

THIS ELECTRICAL THE SIGNAL DESIGN DESIGNED: June 20 SEALED: 7/11/2024 REVISED:



## **SEQUENCE DETAIL**

Front Panel

Main Menu >Controller >Sequence & Phs Config>Sequences

### Web Interface

Home >Controller >Sequence

Sequence 1

Ring	Sequence Data
1	1,2,a,3,4,b
2	5,6,a,7,8,b
3	39,c,40,d

## PREEMPTION PROGRAMMING

Front Panel

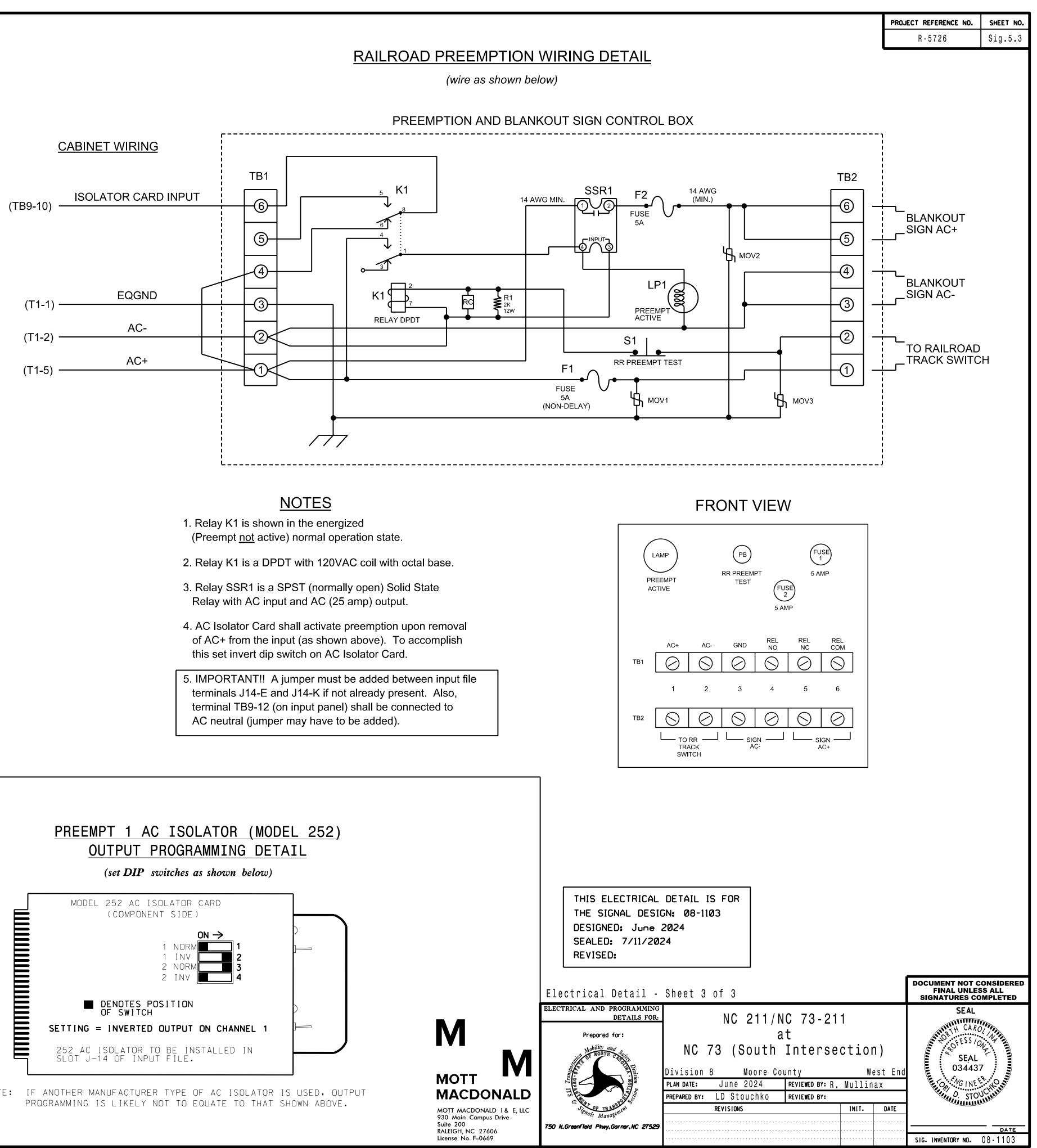
Main Menu >Controller >Preemption >Preempt Phasing/Preempt Parameters

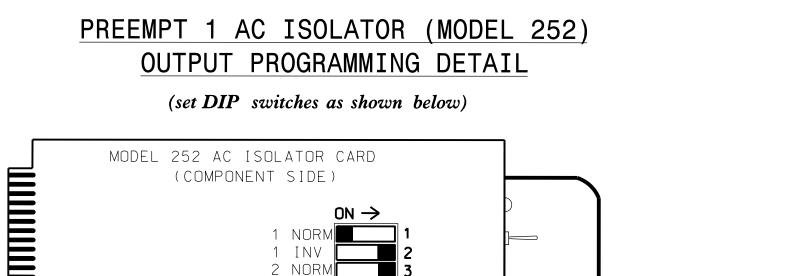
Web Interface

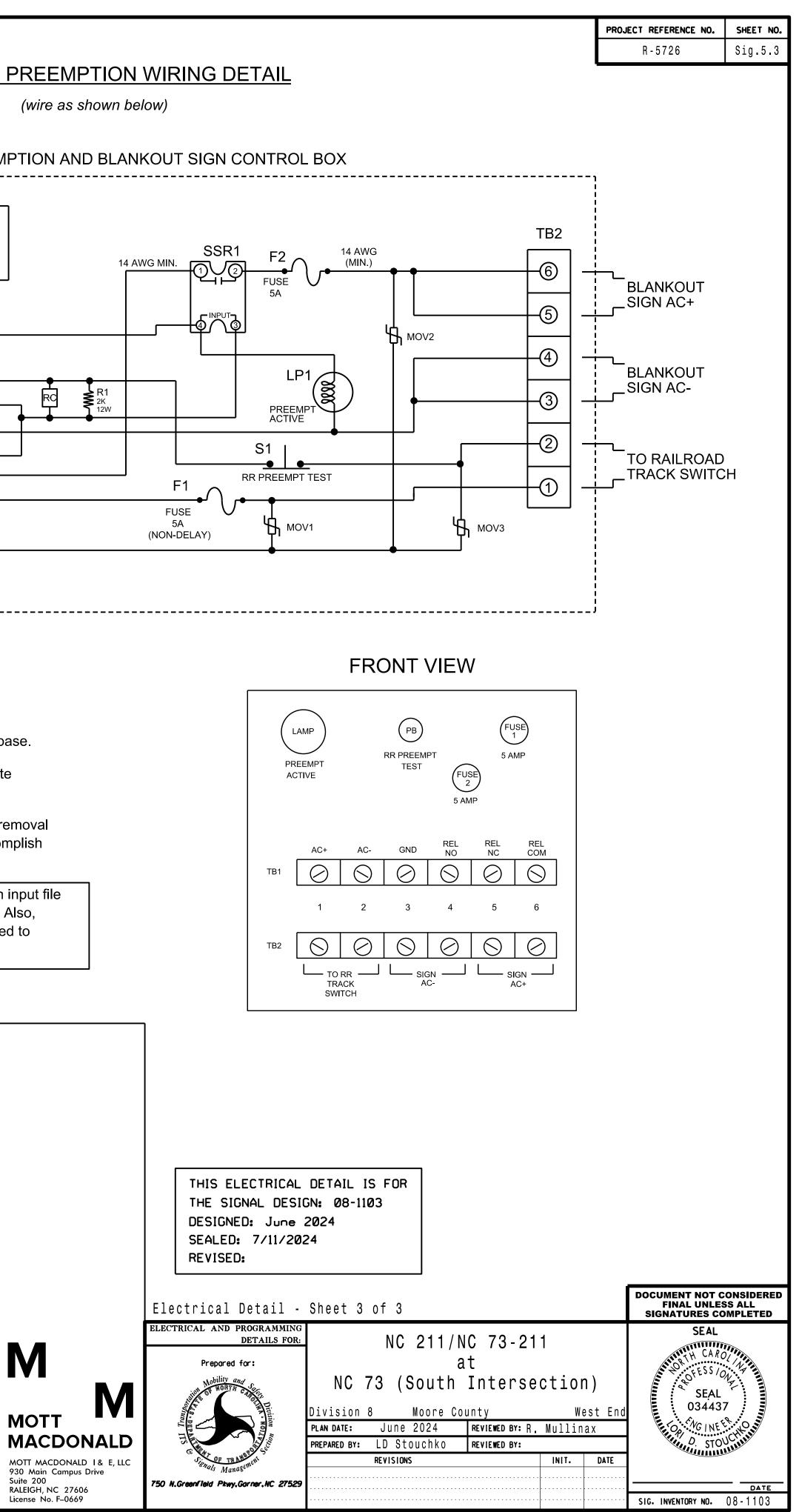
Home >Controller >Preempt Configuration >Preempts

### Preempt Configuration

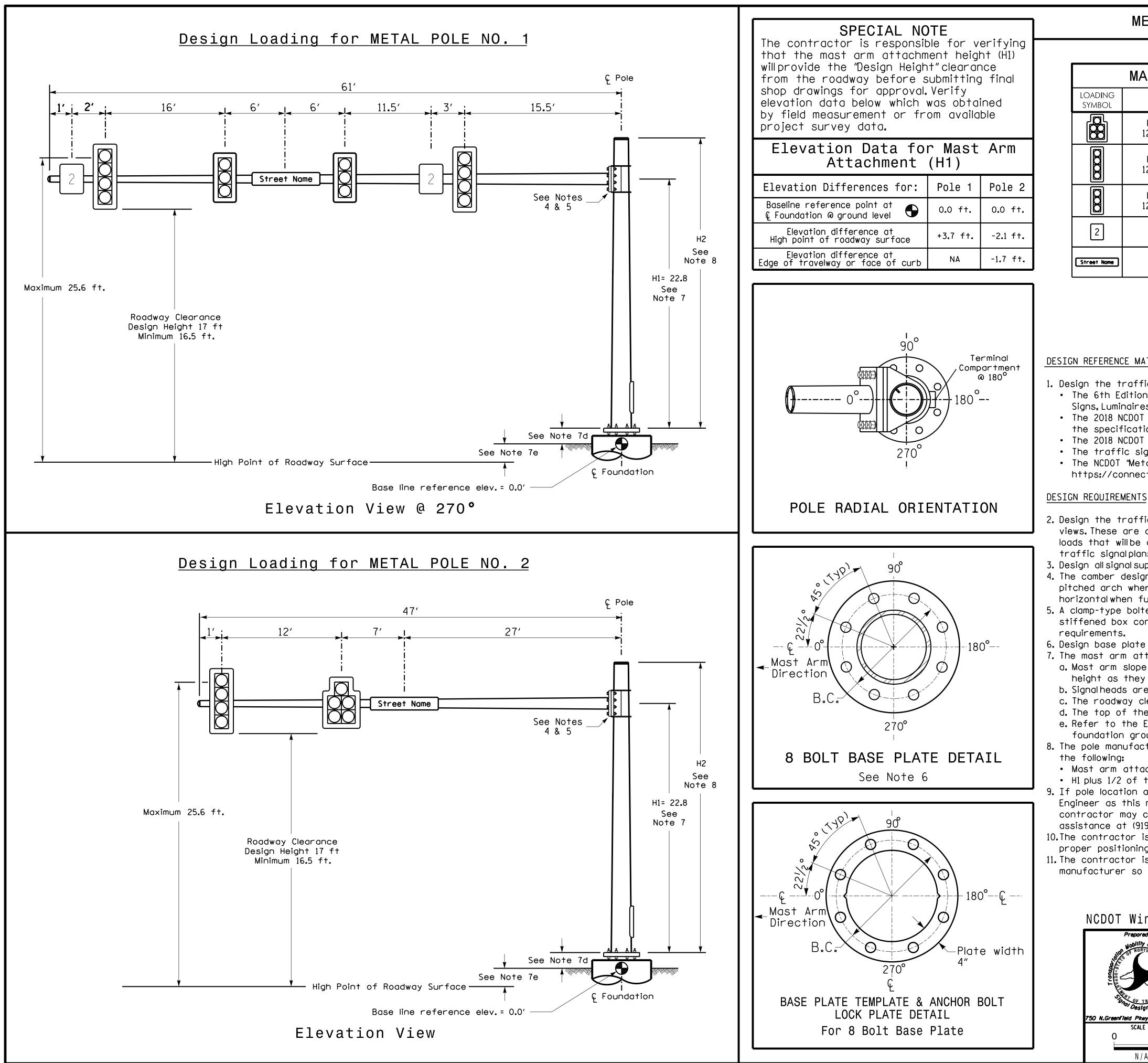
Preempt1EnabledEnabledTypeRail RoadTrack Phases4,39Track Overlaps-Dwell Phases2,6Dwell Peds-Dwell Overlaps3Cycling Phases-Cycling Peds-Cycling Overlaps-Exit Phases4Exit Overlaps4Delay0Call Ext Time1.0Max Presence0Max Pres ActTerminateEnter Min Green1Enter Ped Clear0Enter Red Clear3.1Track Green27Track Green27Track Red Clear2.0Dwell Green0Exit Min Green255Exit Min Green25.5Exit Min Green25.5Exit Red Clear25.5Exit Red Clear25.5Exit Red Clear25.5Exit Red Clear25.5Exit Red Clear25.5Exit TypeExit PhasesNon Locking Memory-Not Ovrd Nxt Pre-Require All Red Entry-Track Clear OvrdXPed Clear During Yellow-		
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Require All Red Entry - Track Clear Ovrd X	Not Ovrd Flash	Х
Track Clear Ovrd X	Not Ovrd Nxt Pre	-
	Require All Red Entry	-
Ped Clear During Yellow	Track Clear Ovrd	Х
<u> </u>	Ped Clear During Yellow	<u> </u>
Entry Omit OLTG X	Entry Omit OLTG	X
Track Reserve X	Track Reserve	X







NOTE: IF ANOTHER MANUFACTURER TYPE OF AC ISOLATOR IS USED, OUTPUT



## METAL POLE No. 1 and 2

### PROJECT REFERENCE NO. R-5726

SHE	T	١	10	•
Sig	. 5		4	

	MAST ARM LOADING SC	HEDU	LE	
NG OL	DESCRIPTION	AREA	SIZE	WEIGHT
	RIGID MOUNTED SIGNAL HEAD 12"-5 SECTION-WITH BACKPLATE	16.3 S.F.	42.0″W X 56.0″L	103 LBS
	RIGID MOUNTED SIGNAL HEAD 12"-4 SECTION-WITH BACKPLATE	11.5 S.F.	25 <b>.</b> 5″ W X 66 <b>.</b> 0″ L	74 LBS
	RIGID MOUNTED SIGNAL HEAD 12"-3 SECTION-WITH BACKPLATE	9.3 S.F.	25 <b>.</b> 5″₩ X 52 <b>.</b> 5″L	60 LBS
]	SIGN RIGID MOUNTED	7.5 S.F.	30.0″W X 36.0″L	14 LBS
Name	STREET NAME SIGN RIGID MOUNTED	16.0 S.F.	24.0″W X 96.0″L	36 LBS



MOTT MACDONALD 1 & E, LLC 930 Main Campus Drive Suite 200 RALEIGH, NC 27606 License No. F-0669

### <u>NOTES</u>

### DESIGN REFERENCE MATERIAL

1. Design the traffic signal structure and foundation in accordance with: • The 6th Edition 2013 AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, including all of the latest interim revisions. • The 2018 NCDOT "Standard Specifications for Roads and Structures." The latest addenda to the specifications can be found in the traffic signal project special provisions. • The 2018 NCDOT Roadway Standard Drawings.

• The traffic signal project plans and special provisions.

• The NCDOT "MetalPole Standards" located at the following NCDOT website:

https://connect.ncdot.gov/resources/safety/Pages/ITS-Design-Resources.aspx

2. Design the traffic signal structure using the loading conditions shown in the elevation views. These are anticipated worst case "design loads" and may not represent the actual loads that will be applied at the time of the installation. The contractor should refer to the traffic signal plans for the actual loads that will be applied at the time of the installation. 3. Design all signal supports using stress ratios that do not exceed 0.9.

4. The camber design for the mast arm deflection should provide an appearance of a low pitched arch where the tip or the free end of the mast arm does not deflect below horizontal when fully loaded.

5. A clamp-type bolted mast arm-to-pole connection may be used instead of the welded ring stiffened box connection shown as long as the connection meets all of the design

6. Design base plate with 8 anchor bolt holes. Provide 2 inch x 60 inch anchor bolts. 7. The mast arm attachment height (H1) shown is based on the following design assumptions: a. Mast arm slope and deflection are not considered in determining the arm attachment height as they are assumed to offset each other.

b. Signalheads are rigidly mounted and vertically centered on the mast arm.

c. The roadway clearance height for design is as shown in the elevation views.

d. The top of the pole base plate is 0.75 feet above the ground elevation.

e. Refer to the Elevation Data Chart for the elevation differences between the proposed foundation ground leveland the high point of the roadway.

8. The pole manufacturer will determine the total height (H2) of each pole using the greater of

• Mast arm attachment height (H1) plus 2 feet, or

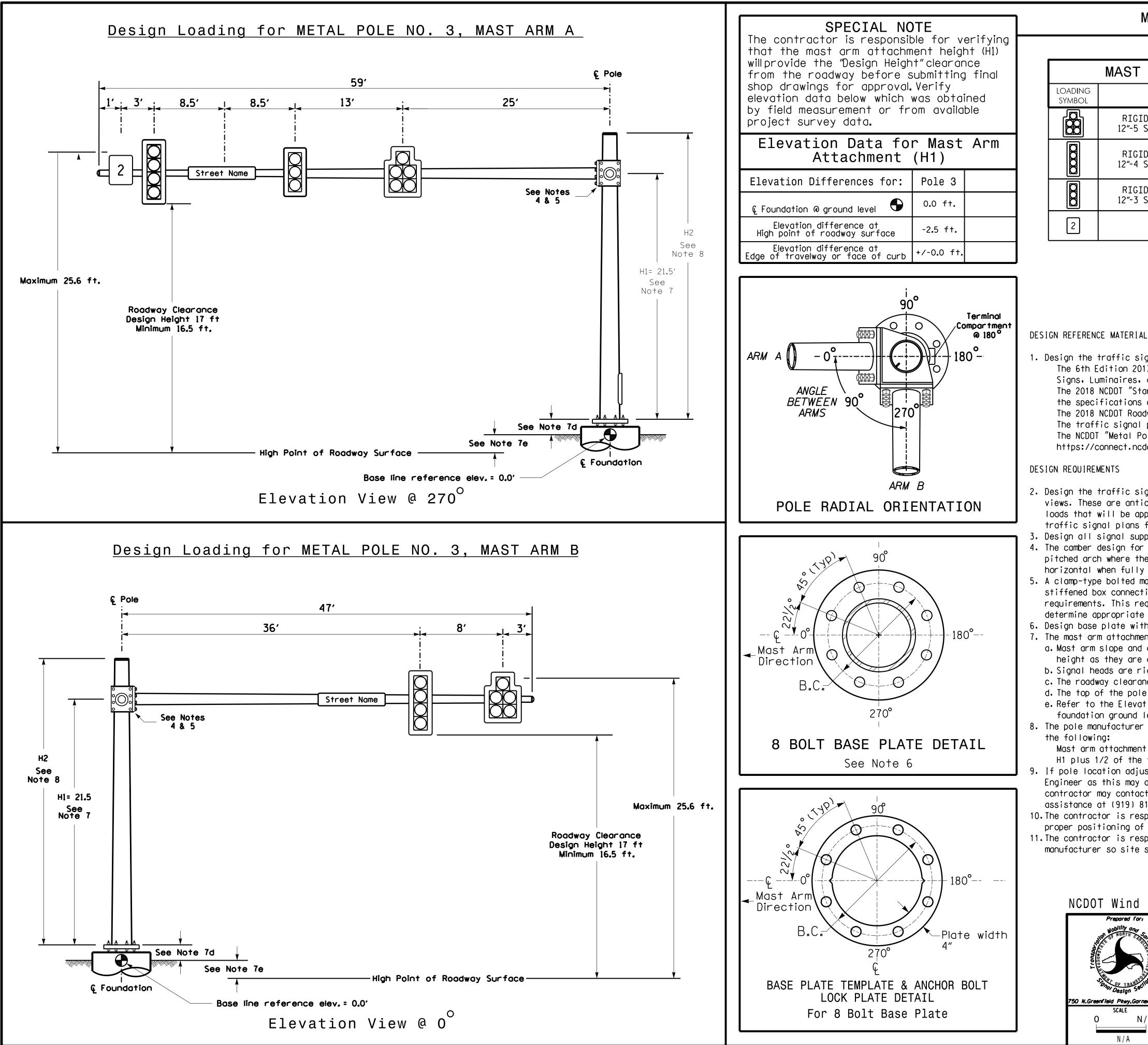
• H1 plus 1/2 of the total height of the mast arm attachment assembly plus 1 foot. 9. If pole location adjustments are required, the contractor must gain approval from the Engineer as this may affect the mast arm lengths and arm attachment heights. The

contractor may contact the SignalDesign Section Senior StructuralEngineer for assistance at (919) 814-5000.

10. The contractor is responsible for verifying that the mast arm length shown will allow proper positioning of the signalheads 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.

OOT Wind Zone	4 (90 mph)		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
Prepared for:	NC 211/N a NC 73 (South Division 8 Moore Co	,	SEAL OFESS/ON SEAL 034437
Prov Design Section	PLAN DATE: June 2024	REVIEWED BY: R. Mullinax	CONTRACTOR
Greenfield Pkwy.Garner.NC 27529	PREPARED BY: LD Stouchko	REVIEWED BY:	O STOULIN
SCALE O N / A	REVISIONS	INIT. DA	
N / A			SIGNATURE DATE SIGNATURE DATE



## METAL POLE No. 3

PROJECT REFERENCE NO. R-5726

Μ

MOTT

License No. F-0669

MACDONALD

MOTT MACDONALD 1 & E, LLC 930 Main Campus Drive Suite 200 RALEIGH, NC 27606

SHEET NO. Sig.5.5

N

	MAST ARM LOADING SC	HEDU	LE	
G -	DESCRIPTION	AREA	SIZE	WEIGHT
	RIGID MOUNTED SIGNAL HEAD 12"-5 SECTION-WITH BACKPLATE	16.3 S.F.	42 <b>.</b> 0″₩ X 56 <b>.</b> 0″L	103 LBS
	RIGID MOUNTED SIGNAL HEAD 12″-4 SECTION-WITH BACKPLATE	11.5 S.F.	25 <b>.</b> 5″ W X 66 <b>.</b> 0″ L	74 LBS
	RIGID MOUNTED SIGNAL HEAD 12"-3 SECTION-WITH BACKPLATE	9.3 S.F.	25 <b>.</b> 5″₩ X 52 <b>.</b> 5″L	60 LBS
	SIGN RIGID MOUNTED	7.5 S.F.	30.0″W X 36.0″L	14 LBS

### <u>NOTES</u>

1. Design the traffic signal structure and foundation in accordance with: The 6th Edition 2013 AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, including all of the latest interim revisions. The 2018 NCDOT "Standard Specifications for Roads and Structures." The latest addenda to the specifications can be found in the traffic signal project special provisions. The 2018 NCDOT Roadway Standard Drawings.

The traffic signal project plans and special provisions.

The NCDOT "Metal Pole Standards" located at the following NCDOT website:

https://connect.ncdot.gov/resources/safety/Pages/ITS-Design-Resources.aspx

2. Design the traffic signal structure using the loading conditions shown in the elevation views. These are anticipated worst case "design loads" and may not represent the actual loads that will be applied at the time of the installation. The contractor should refer to the traffic signal plans for the actual loads that will be applied at the time of the installation. 3. Design all signal supports using stress ratios that do not exceed 0.9. 4. The camber design for the mast arm deflection should provide an appearance of a low pitched arch where the tip or the free end of the mast arm does not deflect below

horizontal when fully loaded. 5. A clamp-type bolted mast arm-to-pole connection may be used instead of the welded ring

stiffened box connection shown as long as the connection meets all of the design requirements. This requires staggering the connections. Use elevation data for each arm to determine appropriate arm connection points.

6. Design base plate with 8 anchor bolt holes. Provide 2 inch x 60 inch anchor bolts. 7. The mast arm attachment height (H1) shown is based on the following design assumptions: a. Mast arm slope and deflection are not considered in determining the arm attachment height as they are assumed to offset each other.

b. Signal heads are rigidly mounted and vertically centered on the mast arm. c. The roadway clearance height for design is as shown in the elevation views. d. The top of the pole base plate is 0.75 feet above the ground elevation.

e. Refer to the Elevation Data Chart for the elevation differences between the proposed foundation ground level and the high point of the roadway.

8. The pole manufacturer will determine the total height (H2) of each pole using the greater of

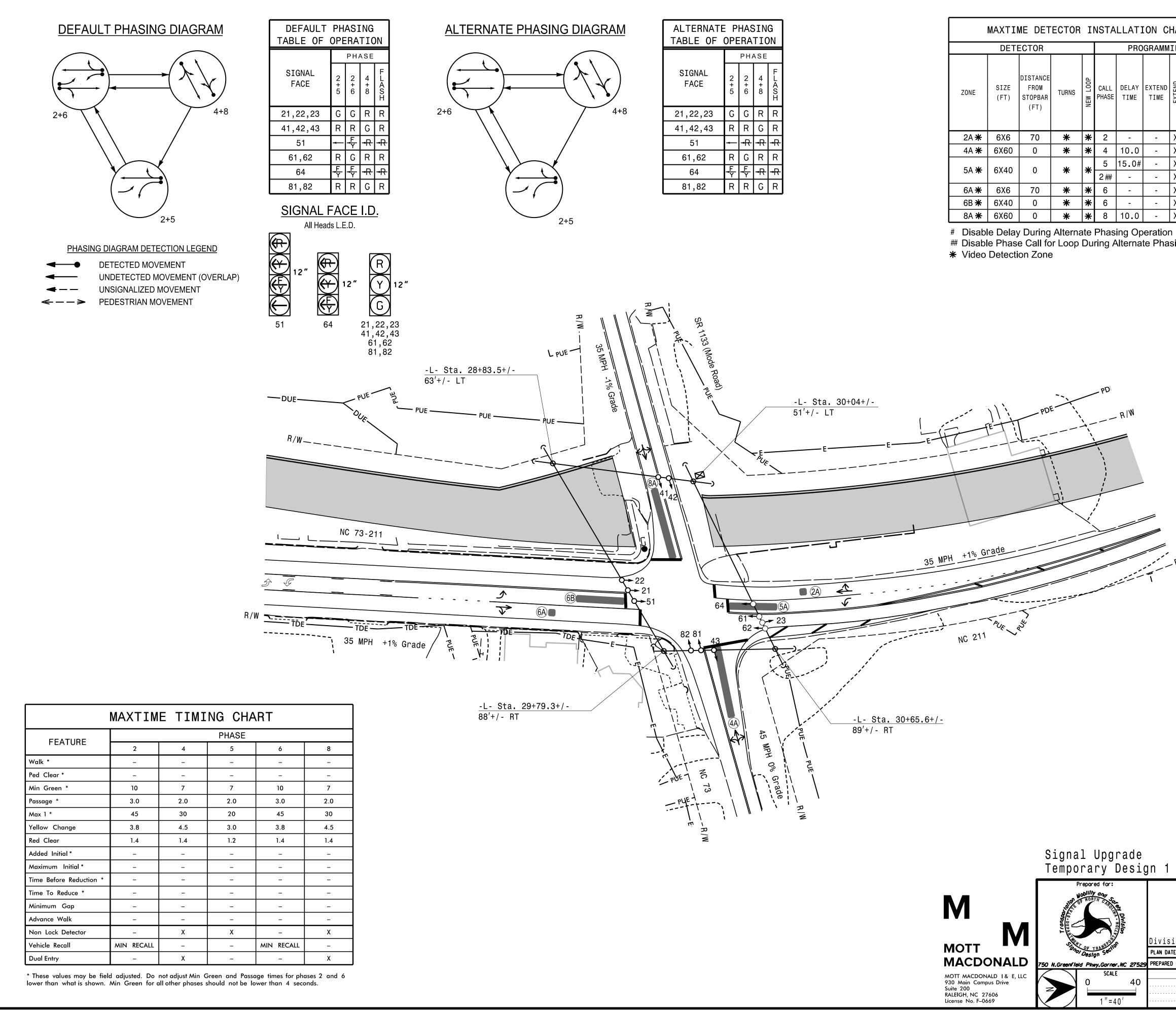
Mast arm attachment height (H1) plus 2 feet, or

H1 plus 1/2 of the total height of the mast arm attachment assembly plus 1 foot. 9. If pole location adjustments are required, the contractor must gain approval from the 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 assistance at (919) 814-5000.

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.

DOT Wind Zone	4 (90 mph)		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
Prepared for: NODILITY ON State Division NORTH CROCK AND DIVISION N	A NC 73 (South Division 8 Moore Co PLAN DATE: June 2024	IC 73-211 At Intersection) Dunty West En REVIEWED BY: R. Mullinax REVIEWED BY:	SEAL OFESS/01-1- SEAL 034437
Greenfield Pkwy.Garner.NC 27529. SCALE	REVISIONS	INIT. DATE	
O N/A			SIGNATURE DATE



ALTERNATE PHASING TABLE OF OPERATION					
		PH	٩SE		
SIGNAL FACE	2+5	2+6	4+8	FLAOT	
21,22,23	G	G	R	R	
41,42,43	R	R	G	R	
51	ł	¢	₽	<del>-R</del>	
61,62	R	G	R	R	
64	Б	⊷∤≻	₽	<del>-R</del>	
81,82	R	R	G	R	

	MAXTIME DETECTOR INSTALLATION CHART											
	DET	ECTOR				PRO	GRAMM	IN	G			
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A <b>米</b>	6X6	70	*	*	2	-	-	Х	-	Х	1	*
4A <b>米</b>	6X60	0	*	*	4	10.0	I	Х	-	Х	I	*
	6X40	0	*	*	5	15.0#	-	Х	-	Х	-	*
5A <b>米</b>	0740		不	₩	2 ##	-	-	Х	-	Х	-	*
6A <b>米</b>	6X6	70	*	*	6	-	-	Х	-	Х	-	*
6B <b>米</b>	6X40	0	*	*	6	-	-	Х	-	Х	-	*
8A <b>米</b>	6X60	0	*	*	8	10.0	-	Х	-	Х		*

PROJECT REFERENCE NO.	SHEET NO.
R - 5726	Sig 6.0

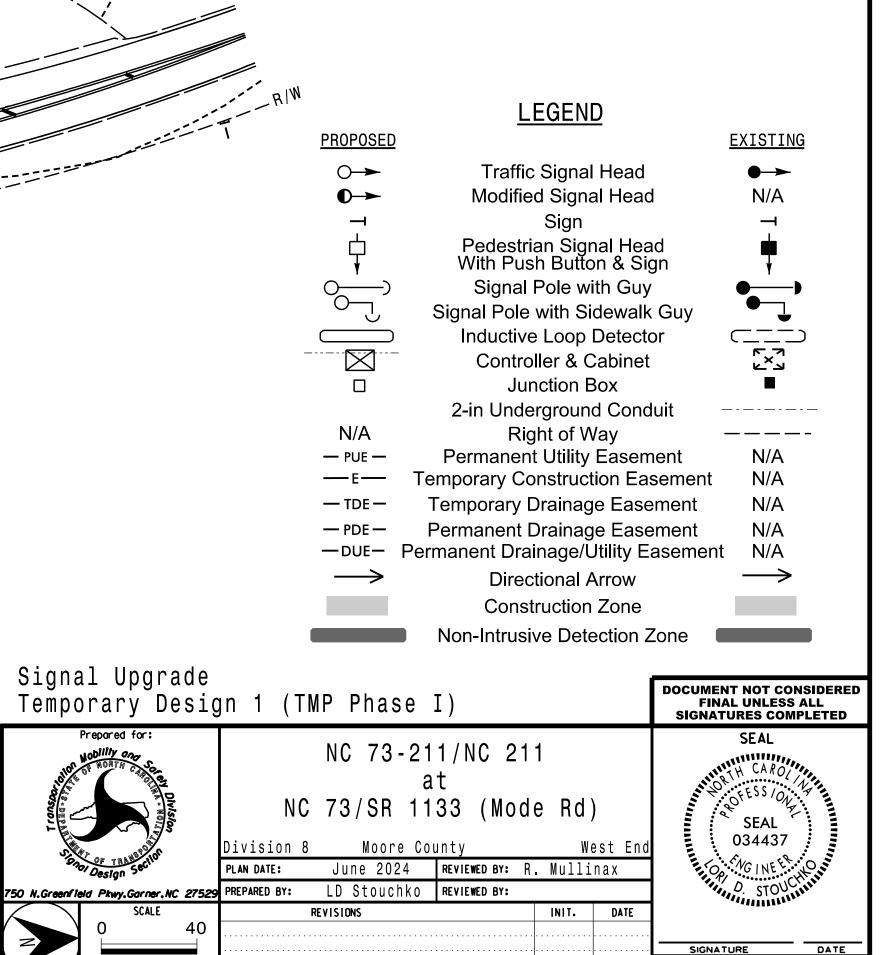
1"=40'

# Disable Phase Call for Loop During Alternate Phasing Operation

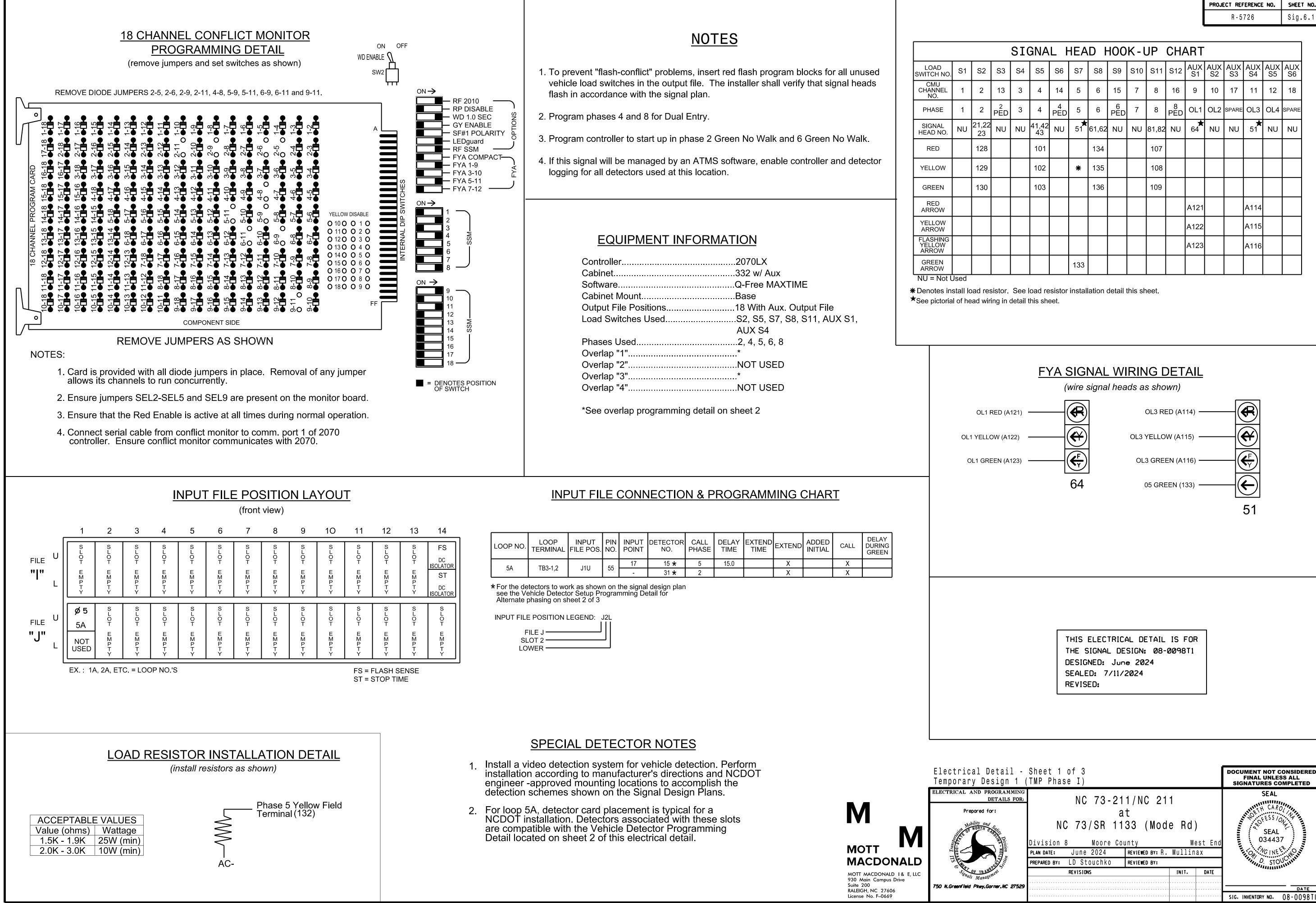
### 3 Phase Fully Actuated (Isolated)

### NOTES

- 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.
- 5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 6. The Division Traffic Engineer will determine the hours of use for each phasing plan.
- 7. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



### SIG. INVENTORY NO. 08-0098T



13	14	_
S	FS	
S L O T	DC ISOLATOR	
E M	ST	
E M P T Y	DC ISOLATOR	
S L O T	S L O T	
E M P T Y	E M P T Y	
	J	

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.		DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	
E۸	TD2 1 0	1411	55	17	15 ★	5	15.0		Х		Х	
5A	TB3-1,2	J1U	55	-	31 ★	2			Х		Х	Γ

														PROJE	CT REP	ERENCE	NO.	SHEET	NO.
															R - 5	726		Sig.	6.1
													-						
				SIC	GNA		IEA	DF	100	K-l	JP	CHA	٩RT						
Э.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	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	PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE	
	NU	21,22 23	NU	NU	41,42 43	NU	<b>5</b> 1	61,62	NU	NU	81,82	NU	<b>★</b> 64	NU	NU	<b>★</b> 51	NU	NU	
		128			101			134			107								
		129			102		*	135			108								
		130			103			136			109								
													A121			A114			
													A122			A115			
5													A123			A116			
							133												

STATE NUMINA CARENDINISIO	Division	8 Moore Co	X	We	/ est End	SEAL 03443	•
	PLAN DATE:	June 2024	REVIEWED BY: R.	Mullin	ах	Op MGINE	EP. O.
	PREPARED BY:	LD Stouchko	REVIEWED BY:			D. STC	
Simals Management		REVISIONS		INIT.	DATE		
Greenfield Pkwy.Garner.NC 27529							DATE
						SIG. INVENTORY NO.	08-0098TI

## MAXTIME OVERLAP PROGRAMMING DETAIL FOR DEFAULT PHASING

### Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

### Web Interface

Home >Controller >Overlap Configuration >Overlaps

### Overlap Plan 1

Overlap	1	2	3	4	
Туре	FYA 4 - Section	Off	FYA 4 - Section	Off	
Included Phases	2	-	6	-	
Modifier Phases	-	-	5	-	
Modifier Overlaps	-	-	-	-	
Trail Green	0	0	0	0	
Trail Yellow	0.0	0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	



Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timing

Web Interface

Home >Controller >Overlap Configuration >Overlaps

In the table view of the web interface, right click on "Overlap" in the top left corner of the table. Copy the entire contents of Overlap Plan 1. Paste Overlap Plan 1 into Overlap Plan 2. Modify Overlap Plan 2 as shown below and save changes.

### Overlap Plan 2

Overlap	1	2	3	4	
Туре	FYA 4 - Section	Off	FYA 4 - Section	Off	
Included Phases	2	-	-	-	-
Modifier Phases	-	-	5	-	←
Modifier Overlaps	-	-	-	-	
Trail Green	0	0	0	0	
Trail Yellow	0.0	0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	

S	MAXTIME DETECTOR PROGRAMMING DETAIL FOR ALTERNATE PHASING LOOP 5AFront Panel Main Menu >Controller >Detector >Veh Det PlansWeb Interface Home >Controller >Detector Configuration >Vehicle DetectorsIn the table view of web interface right click on "Detector" in the top left corner of the table. Copy the entire contents of Detector Plan 1. Paste Detector Plan 1 into Detector Plan 2. Modify Detector Plan 2 as shown below and save changes.Plan 254	
nings	MAXTIME ALTERNATE PHASING A         To run alternate phasing, select a Pattern that is programmed to run Ov A Pattern can be selected through the scheduler or manually by changing         PHASING         ACTIVE PLAN REQUIRED TO RUN DEFAULT PHASING ACTIVE PLAN REQUIRED TO RUN ALTERNATE PHASING	
NOTICE INCLUDED PHASE NOTICE MODIFIER PHASE	ALTERNATE PHASING CHANGE SUM THE FOLLOWING IS A SUMMARY OF WHAT TAKES PLA OVERLAP PLAN 2 AND VEHICLE DETECTOR PLAN 2 AO TO CALL THE "ALTERNATE PHASING": OVERLAP PLAN 2: Modifies overlap included phases for head 51 to run protected turns only VEH DET PLAN 2: Disables phase 2 call on loop 5A and reduces delay time for phase 5 call on loop 5A to 0 seconds. THIS ELECTRICAL DETAIL IS FOR WE DETAIL IS FOR	ACE WHEN CTIVATE 7. Electr Tempora ELECTRICA
	THE SIGNAL DESIGN: 08-0098T1 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED: MOTT MACDONALD 1& E, 930 Main Campus Drive Suite 200 RALEIGH, NC 27606 License No. F-0669	D D

			PROJECT REFERENCE NO.	SHEET NO.
		l	R-5726	Sig.6.2
MAXTIN	<u>ME ALTERNATE PHASII</u> <u>PROGRAMMING DE1</u>		ATTERN	
Front Pa Main Me	nel nu >Controller >Coordination >Pa	tterns		
Web Inte Home >0	erface Controller >Coordination >Patterns	6		
Pattern Patte	Parameters rn Veh Det Plan Overlap Plan * 2 2			
* The Pa	attern number(s) are to be determined b	У		
the Div	vision and/or City Traffic Engineer.			
ATION DE	TAIL			
2 and Detector Pla	n 2.			
rational Mode.				
PLAN V	'EH DET PLAN			
	1			
	2			
rical Detail rary Design 1 ( <sup>CAL AND PROGRAMMING</sup>	TMP Phase I)		DOCUMENT NOT C FINAL UNLES SIGNATURES CO SEAL	SS ALL
DETAILS FOR: Prepared for:	NC 73-211/NC 211 at		SEAL HARTH CARC FESS/C	
Nobility and Succession	NC 73/SR 1133 (Mode Division 8 Moore County	-	End End	7
	PLAN DATE:June 2024REVIEWED BY: R.PREPARED BY:LD StouchkoREVIEWED BY:REVISIONSREVIEWED BY:REVIEWED BY:		DATE	
Serado Management Senado Management Senfield Pkwy.Gorner.NC 27529		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SIG. INVENTORY NO	DATE

SIG. INVENTORY NO. 08-009871

### Front Panel

Main Menu >Controller >More>Channels>Channels Config

### Web Interface

Home >Controller >Advanced IO>Channels>Channels Configuration

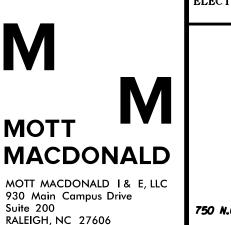
## Channel Configuration

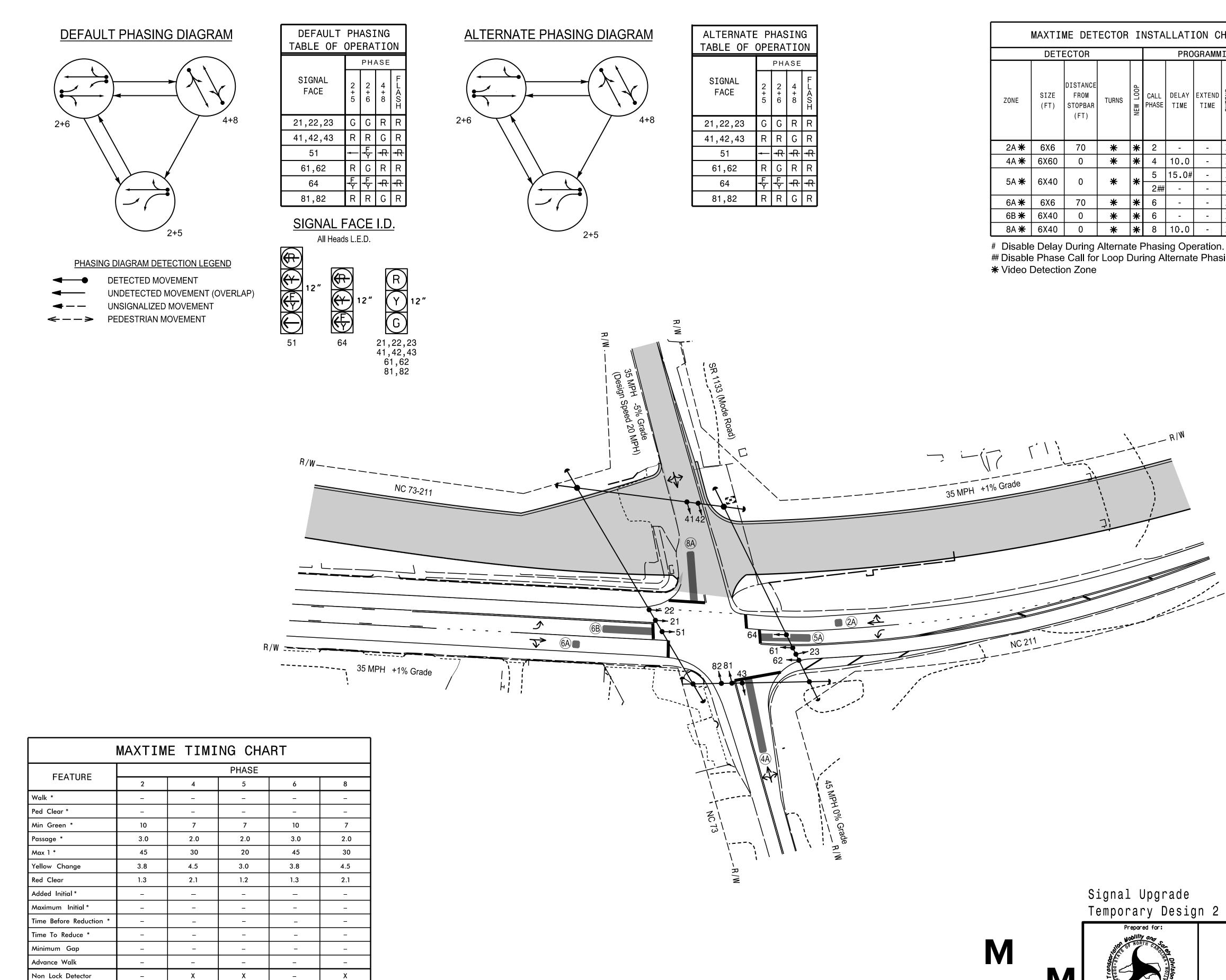
NOTICE PHASE 2 FLASH RED	<b>→</b>
NOTICE PHASE 6 FLASH RED	<b>→</b>

NOTICE OVERLAP 1 FLASH RED NOTICE OVERLAP 3 FLASH RED

Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	ММ
1	Phase Vehicle	1		Х	Х	
2	Phase Vehicle	2		Х		
3	Phase Vehicle	3		Х	Х	
4	Phase Vehicle	4		Х		
5	Phase Vehicle	5		Х		
6	Phase Vehicle	6		Х	Х	
7	Phase Vehicle	7		Х		
8	Phase Vehicle	8		Х	Х	
9	Overlap	1		Х	Х	
10	Overlap	2		Х	Х	
11	Overlap	3		Х		
12	Overlap	4		Х		
13	Phase Ped	2				
14	Phase Ped	4				
15	Phase Ped	6				
16	Phase Ped	8				
17	Overlap	5		Х	Х	
18	Overlap	6		Х		

		PROJECT REFERENCE NO	D. SHEET NO.
		R - 5726	Sig.6.3
	MAXTIME STARTUP AND SOFTWARE FLASH		
	PROGRAMMING DETAIL		
	Front Panel		
	Main Menu >Controller >Unit		
	Web Interface		
	Home >Controller >Unit		
	Modify parameters as shown below and save changes.		
	Startup Parameters Unit Flash Parameters		
	Startup Clearance Hold All Red Flash Exit Time		
	6 6		
MMU Channel			
1 2			
3			
<u>4</u> 5			
6			
7 8			
9			
<u>    10                                </u>			
12			
<u>13</u> 14			
15			
<u>    16                                </u>			
18	Electrical Detail Sheet 2 of 2	DOCUMENT NO	T CONSIDERED
	Electrical Detail - Sheet 3 of 3 Temporary Design 1 (TMP Phase I)	FINAL UN SIGNATURES	LESS ALL COMPLETED
	ELECTRICAL AND PROGRAMMING DETAILS FOR: NC 73-211/NC 211	SE4	
	THIS ELECTRICAL DETAIL IS FOR AT Prepared for: at	AND RTH C	AROLINA
	THE SIGNAL DESIGN: 08-0098T1	SE	
		t End 034	
	REVISED: MACDONALD PREPARED BY: LD Stouchko REVIEWED BY:		TOUCHUIN
	MOTT MACDONALD I & E, LLC 930 Main Campus Drive REVISIONS INIT.	DATE	
	Suite 200     750 N.Greenfleld Ptwy.Garner.NC 27529       RALEIGH, NC 27606       License No. F-0669	SIGNATURE	DATE 0. 08-0098TI





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

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MIN RECALL

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MIN RECALL

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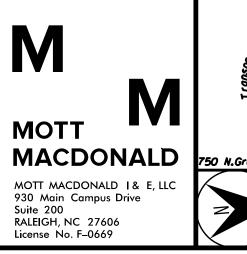
Vehicle Recall

Dual Entry

ALTERNATE PHASING TABLE OF OPERATION						
		PH	ASE	_		
SIGNAL FACE	2+5	2+6	4+8	FLAST		
21,22,23	G	G	R	R		
41,42,43	R	R	G	R		
51	ł	₽	<del>-R</del>	<del>⊀R</del>		
61,62	R	G	R	R		
64	F∳≻	Б∱≻	<del>-</del> ₽	<del>≺R</del>		
81,82	R	R	G	R		

	MAXTIME DETECTOR INSTALLATION CHART											
	DET	ECTOR			PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A <b>米</b>	6X6	70	*	*	2	-	-	Х	-	Х	I	*
4A <b>米</b>	6X60	0	*	*	4	10.0	-	Х	I	Х	I	*
5A <b>米</b>	6X40	0	*	*	5	15.0#	-	Х	-	Х	-	*
	0740		不	<b></b>	2##	-	-	Х	-	Х	-	*
6A <b>米</b>	6X6	70	*	*	6	-	-	Х	-	Х	-	*
6B 米	6X40	0	*	*	6	-	-	Х	-	Х	-	*
8A <b>米</b>	6X40	0	*	*	8	10.0	-	Х	-	Х	-	*

# Disable Delay During Alternate Phasing Operation.## Disable Phase Call for Loop During Alternate Phasing Operation.

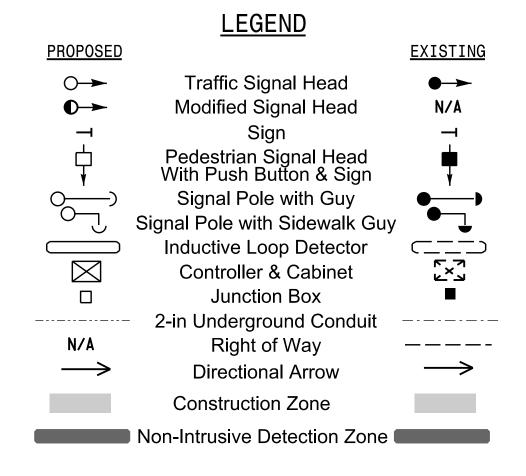


PROJECT REFERENCE NO.	SHEET NO.
R-5726	Sig 7.0

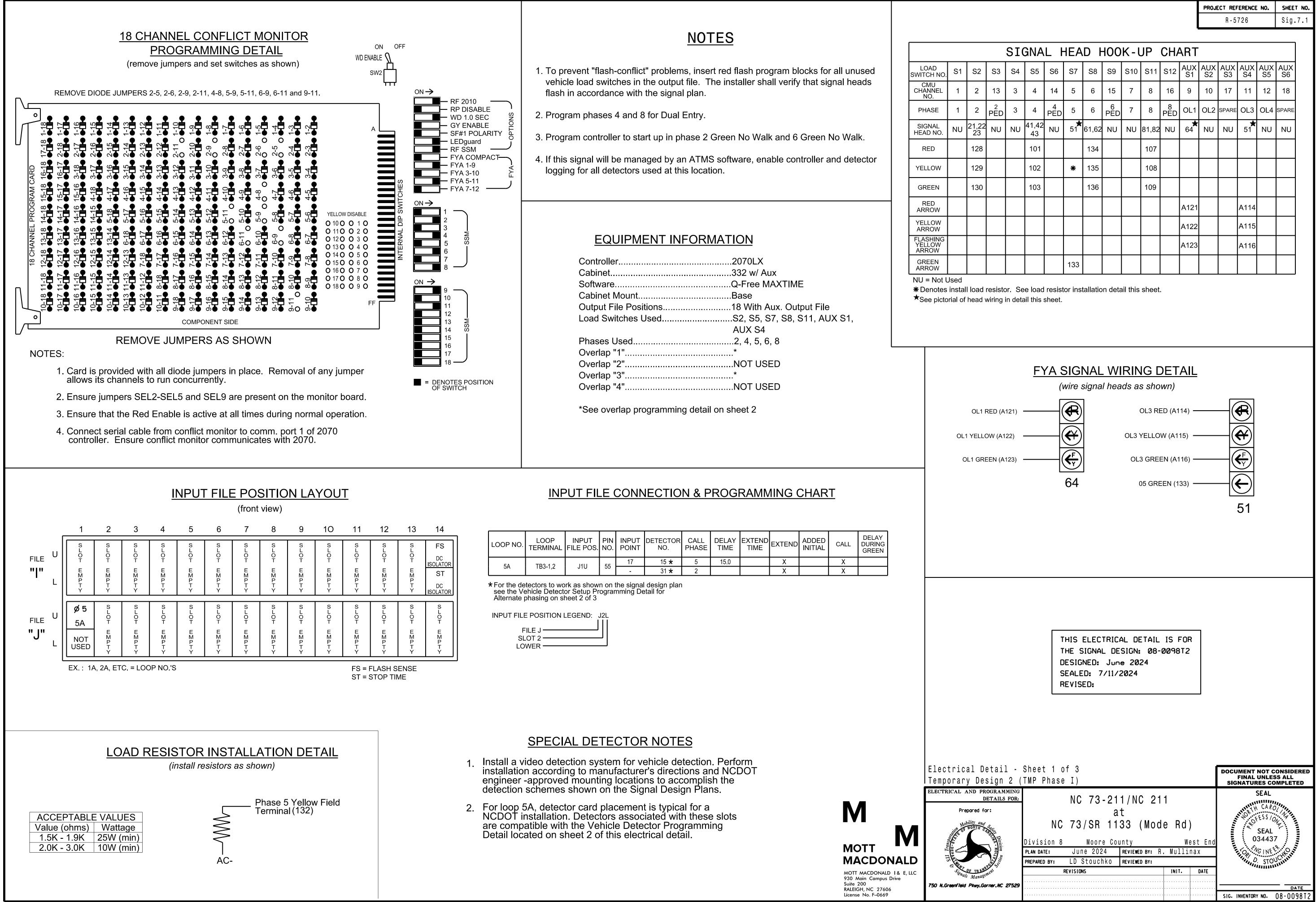
## 3 Phase Fully Actuated (Isolated)

### <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.
- 5. The Division Traffic Engineer will determine the hours of use for each phasing plan.
- 6. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



nal Upgrade Document NOT CONSIDERED								
nporary Desig	n 2 (TMP Phase I	FINAL UNLESS ALL SIGNATURES COMPLETED						
Prepared for:	SEAL TH CAROL OFESSION SEAL 034437							
Daoi Design Section	PLAN DATE: June 2024	REVIEWED BY: R. Mullinax	P OP NGINE F. HO					
Greenfield Pkwy.Garner.NC 27529	PREPARED BY: LD Stouchko	REVIEWED BY:	D. STOUCHIN					
SCALE 0 40	REVISIONS	INIT• DATE						
		•••••••••••••••••••••••••••••••••••••••	SIGNATURE DATE					
1 "=40'		• • • • • • • • • • • • • • • • • • • •	SIG. INVENTORY NO. 08-009872					



3	14	_
S	FS	
S L O T	DC ISOLATOR	
E M	ST	
EMPTY	DC ISOLATOR	
0		
S L OT	S L O T	
-	· E P T Y	
E M P T Y	Г Т Ү	

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.			DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELA DURIN GREE
5A	TB3-1,2	J1U	55	17	15 <b>*</b>	5	15.0		Х		Х	
5A	103-1,2	510	55	-	31 ★	2			Х		Х	

														PROJE	ECT REP	ERENCE	. NO.	SHEET	5 NO.
															R - 5	726		Sig.	7.1
		SIGNAL HEAD HOOK-UP CHART																	
).	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	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	PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1		SPARE	OL3	OL4	SPARE	
	NU	21,22 23	NU	NU	41,42 43	NU	<b>★</b> 51	61,62	NU	NU	81,82	NU	<b>★</b> 64	NU	NU	<b>★</b> 51	NU	NU	
		128			101			134			107								
		129			102		*	135			108								
		130			103			136			109								
													A121			A114			
													A122			A115			
													A123			A116			

## MAXTIME OVERLAP PROGRAMMING DETAIL FOR DEFAULT PHASING

### Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

### Web Interface

Home >Controller >Overlap Configuration >Overlaps

### Overlap Plan 1

Overlap	1	2	3	4	
Туре	FYA 4 - Section	Off	FYA 4 - Section	Off	
Included Phases	2	-	6	-	
Modifier Phases	-	-	5	-	
Modifier Overlaps	-	-	-	-	
Trail Green	0	0	0	0	
Trail Yellow	0.0	0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	



Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface

Home >Controller >Overlap Configuration >Overlaps

In the table view of the web interface, right click on "Overlap" in the top left corner of the table. Copy the entire contents of Overlap Plan 1. Paste Overlap Plan 1 into Overlap Plan 2. Modify Overlap Plan 2 as shown below and save changes.

### Overlap Plan 2

Overlap	1	2	3	4	
Туре	FYA 4 - Section	Off	FYA 4 - Section	Off	
Included Phases	2	-	-	-	-
Modifier Phases	-	-	5	-	←
Modifier Overlaps	-	-	-	-	
Trail Green	0	0	0	0	
Trail Yellow	0.0	0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	

S FICE INCLUDED PHASE TICE MODIFIER PHASE	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	MAXTII         Front Pa         Main Me         Web Inte         Home >0         Pattern         Patte         * The Patte         the Div
nings	MAXTIME ALTERNATE PHASING ACTIVE PLAN REQUIRED TO RUN DEFAULT PHASING         OVE         ACTIVE PLAN REQUIRED TO RUN ALTERNATE PHASING         ACTIVE PLAN REQUIRED TO RUN ALTERNATE PHASING	
NOTICE INCLUDED PHASE NOTICE MODIFIER PHASE	M	- VHEN
	MOTT MACDONALD & E, LLC 930 Main Campus Drive Suite 200 RALEIGH, NC 27606 License No. F-0669	T50 N.Greenfield Pkwy.Garner.NC 27529

		PROJECT REFERENCE NO.	SHEET NO.
		R-5726	Sig.7.2
ΜΔΧΤΙΙ	ME ALTERNATE PHASING P	ΔΤΤΕΡΝ	
	PROGRAMMING DETAIL		
Front Pa Main Mo	nel nu >Controller >Coordination >Patterns		
Web Inte			
	Controller >Coordination >Patterns Parameters		
Patte	rn Veh Det Plan Overlap Plan		
	* 2 2		
* The P	attern number(s) are to be determined by		
the Di	vision and/or City Traffic Engineer.		
ATION DE	TAIL		
2 and Detector Pla rational Mode.	n 2.		
PLAN V	/EH DET PLAN		
	1		
	2		
		7	
	THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0098T2		
	DESIGNED: June 2024		
	SEALED: 7/11/2024 REVISED:		
rical Detail -	Sheet 2 of 3		
rary Design 2 (		DOCUMENT NOT C FINAL UNLES SIGNATURES CO	SS ALL
CAL AND PROGRAMMING DETAILS FOR:	NC 73-211/NC 211	SEAL	
Prepared for:	at	AND RESS /	N THE
Nobility and Sector Division	NC 73/SR 1133 (Mode Rd)	t End	7
No. NOT	Division 8 Moore County West PLAN DATE: June 2024 REVIEWED BY: R. Mullina		
THE OF TRANSPORT	PREPARED BY:         LD Stouchko         REVIEWED BY:           REVISIONS         INIT.	D. STO	111111
Singly Management enfield Pkwy.Garner.NC 27529			

SIG. INVENTORY NO. 08-009872

Front Panel Main Menu >Controller >More>Channels>Channels Config

Web Interface Home >Controller >Advanced IO>Channels>Channels Configuration

Channel Configuration

NOTICE PHASE 2 FLASH RED NOTICE PHASE 6 FLASH RED NOTICE OVERLAP 1 NOTICE OVERLAP 3 FLASH RED

ſ	Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel
F	1	Phase Vehicle	1		Х	Х	1
➡ 「	2	Phase Vehicle	2		Х		2
Ē	3	Phase Vehicle	3		Х	Х	3
	4	Phase Vehicle	4		Х		4
	5	Phase Vehicle	5		Х		5
-→ 「	6	Phase Vehicle	6		Х	Х	6
Ē	7	Phase Vehicle	7		Х		7
	8	Phase Vehicle	8		Х	Х	8
-→ 「	9	Overlap	1		Х	Х	9
Ē	10	Overlap	2		Х	Х	10
➡ 「	11	Overlap	3		Х		11
Ē	12	Overlap	4		Х		12
	13	Phase Ped	2				13
	14	Phase Ped	4				14
Γ	15	Phase Ped	6				15
Γ	16	Phase Ped	8				16
Γ	17	Overlap	5		Х	Х	17
Γ	18	Overlap	6		Х		18

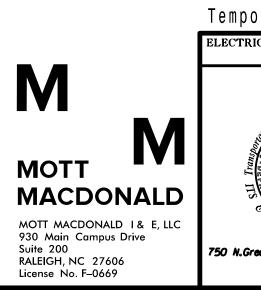
## MAXTIME STARTUP AND SOFTWARE FL PROGRAMMING DETAIL

Front Panel Main Menu >Controller >Unit

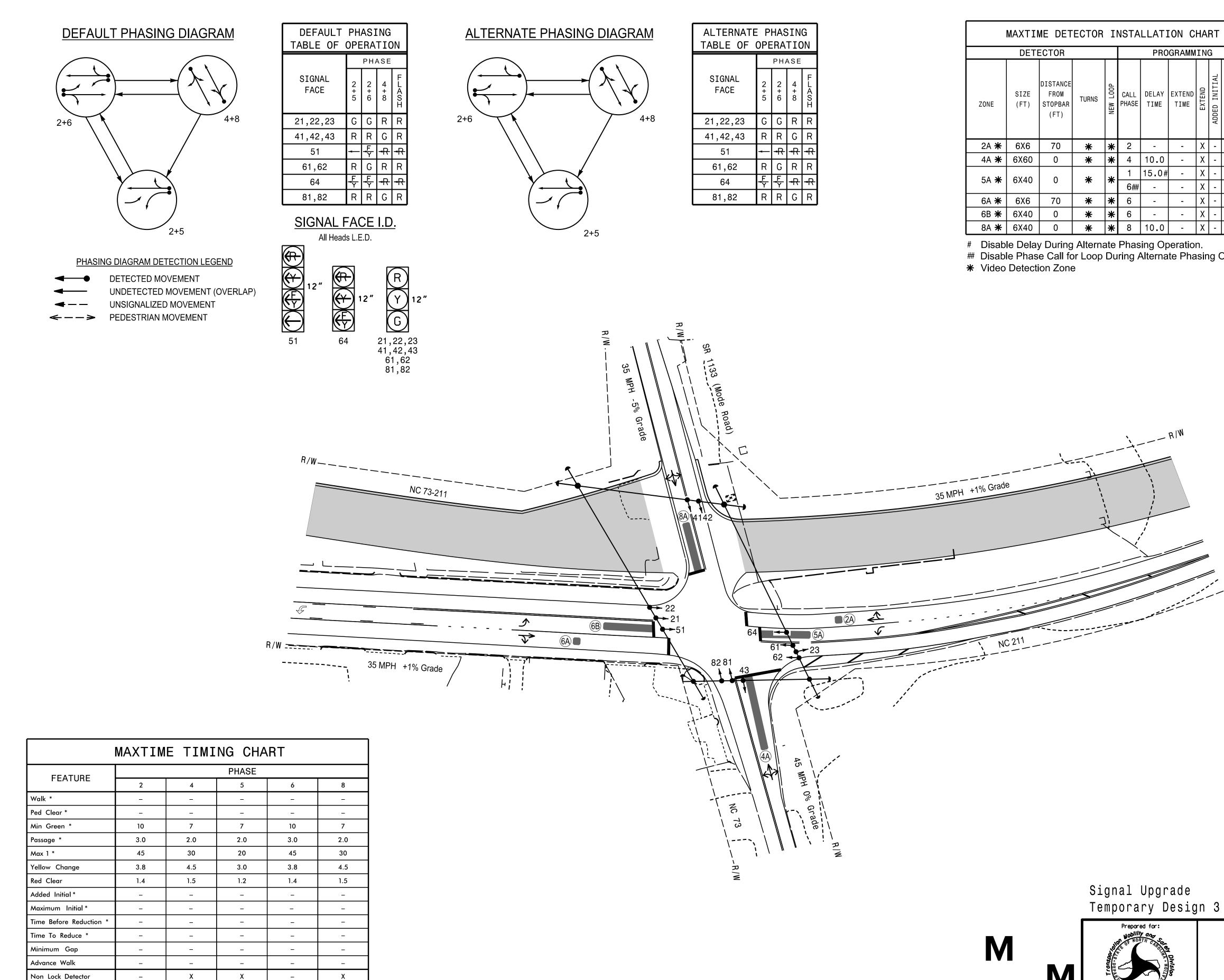
Web Interface Home >Controller >Unit

Modify parameters as shown below and save changes.

Startup Parameters	Unit Flash Parameters
Startup Clearance Hold	All Red Flash Exit Time
6	6



	PROJECT REFERENCE NO.	SHEET NO.
	R-5726	Sig.7.3
<u>RE FLASH</u>		
anges.		
'S		
THIS ELECTRICAL DETAIL IS FOR	7	
THE SIGNAL DESIGN: 08-0098T2		
DESIGNED: June 2024		
SEALED: 7/11/2024 REVISED:		
Electrical Detail - Sheet 3 of 3	DOCUMENT NOT C	ONSIDERED
Temporary Design 2 (TMP Phase I)	FINAL UNLES SIGNATURES CO	S ALL MPLETED
ELECTRICAL AND PROGRAMMING DETAILS FOR: NC 73-211/NC 211	SEAL	11) <b>.</b>
Prepared for: at	NTH CARC	NATE.
NC 73/SR 1133 (Mode Rd)	t End x	
	t End 03443	
PLAN DATE: June 2024 REVIEWED BY: R. Mullina PREPARED BY: LD Stouchko REVIEWED BY:	X MGINE	CHNUIN
REVISIONS INIT.	DATE	11-
750 N.Greenfield Pkwy.Garner.NC 27529	······	DATE
	SIG. INVENTORY NO.	08-0098T2



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

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MIN RECALL

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MIN RECALL

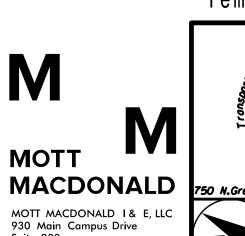
Vehicle Recall

Dual Entry

ALTERNATE PHASING TABLE OF OPERATION									
		PH	٩SE						
SIGNAL FACE	2+5	2+6	4+8	FLANT					
21,22,23	G	G	R	R					
41,42,43	R	R	G	R					
51	ł	₽	₽	<del>-R</del>					
61,62	R	G	R	R					
64	F	Fţ≻	<del>-</del> ₽	<del>≺R</del>					
81,82	R	R	G	R					

	MAXTI	ME DET	ECTOR	I	NSTA	LLAT]	ION C	HA	RT			
	DET	ECTOR				PRO	GRAMM	IN	G			
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A <b>米</b>	6X6	70	*	*	2	-	-	Х	I	Х	-	*
4A 米	6X60	0	*	*	4	10.0	-	Х	I	Х	-	*
5A <b>米</b>	6X40	0	*	*	1	15.0#	-	Х	-	Х	-	*
5A <b>ক</b>	0740		不	<b></b>	6##	-	-	Х	-	Х	-	*
6A <b>米</b>	6X6	70	*	*	6	-	-	Х	-	Х	-	*
6B 米	6X40	0	*	*	6	-	-	Х	-	Х	-	*
8A <b>米</b>	6X40	0	*	*	8	10.0	-	Х	-	Х	-	*

# Disable Delay During Alternate Phasing Operation.# Disable Phase Call for Loop During Alternate Phasing Operation.



MOTT

Suite 200

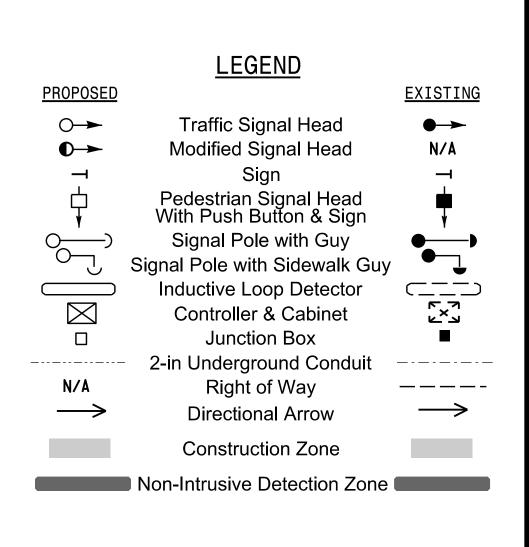
RALEIGH, NC 27606 License No. F-0669

PROJECT REFERENCE NO.	SHEET NO.
R - 5726	Sig 8.0

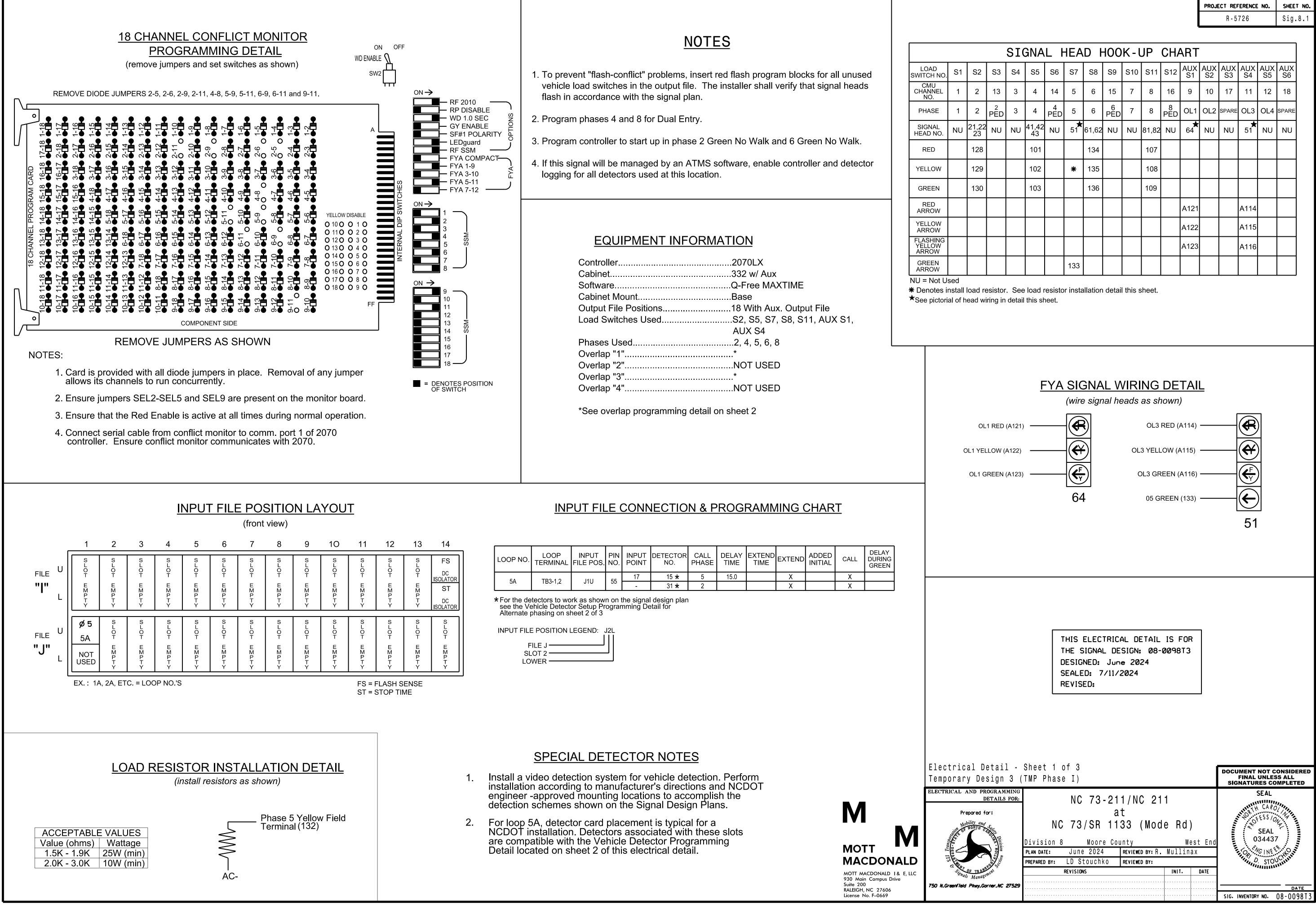
### 3 Phase Fully Actuated (Isolated)

### <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. 5. The Division Traffic Engineer
- will determine the hours of use for each phasing plan.
- 6. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



### Signal Upgrade DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED Temporary Design 3 (TMP Phase I) SEAL Prepared for: NC 73-211/NC 211 CA*RI* at FESS/0 NC 73/SR 1133 (Mode Rd) SEAL 034437 Division 8 Moore County West End NGINEY REVIEWED BY: R. Mullinax PLAN DATE: June 2024 750 N.Greenfield Pkwy.Gorner.NC 27529 PREPARED BY: LD Stouchko REVIEWED BY: SCALE REVISIONS INIT. DATE 40 DATE SIGNATURE SIG. INVENTORY NO. 08-009813 1"=40'



	LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
	5A		1411	55	17	15 ★	5	15.0		Х		Х	
		103-1,2	TB3-1,2 J1U	55	-	31 ★	2			Х		Х	

FILE J	-	
SLOT 2		I
LOWER		J

									PROJE	ECT REF	ERENCE	NO.	SHEET	「 NO.					
															R - 5	726		Sig.	8.1
				SIC	GNA	Lŀ	IEA	DH	100	K-l	JP	CHA	٩RT						
Э.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	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	PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1		SPARE	OL3	OL4	SPARE	
	NU	21,22 23	NU	NU	41,42 43	NU	★ 51	61,62	NU	NU	81,82	NU	<b>★</b> 64	NU	NU	★ 51	NU	NU	
		128			101			134			107								
		129			102		*	135			108								
		130			103			136			109								
													A121			A114			
													A122			A115			
3													A123			A116			
							133												

## MAXTIME OVERLAP PROGRAMMING DETAIL FOR DEFAULT PHASING

### Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

### Web Interface

Home >Controller >Overlap Configuration >Overlaps

### Overlap Plan 1

Overlap	1	2	3	4	
Туре	FYA 4 - Section	Off	FYA 4 - Section	Off	
Included Phases	2	-	6	-	
Modifier Phases	-	-	5	-	
Modifier Overlaps	-	-	-	-	
Trail Green	0	0	0	0	
Trail Yellow	0.0	0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	



Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timing

Web Interface

Home >Controller >Overlap Configuration >Overlaps

In the table view of the web interface, right click on "Overlap" in the top left corner of the table. Copy the entire contents of Overlap Plan 1. Paste Overlap Plan 1 into Overlap Plan 2. Modify Overlap Plan 2 as shown below and save changes.

### Overlap Plan 2

Overlap	1	2	3	4	
Туре	FYA 4 - Section	Off	FYA 4 - Section	Off	
Included Phases	2	-	-	-	
Modifier Phases	-	-	5	-	
Modifier Overlaps	-	-	-	-	
Trail Green	0	0	0	0	
Trail Yellow 0.0		0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	

S	MAXTIME DETECTOR PROGRAMMING DETAIL FOR ALTERNATE PHASING LOOP 5A         Front Panel Main Menu >Controller >Detector >Veh Det Plans         Web Interface Home >Controller >Detector Configuration >Vehicle Detectors         In the table view of web interface right click on "Detector" in the top left corner of the table. Copy the entire contents of Detector Plan 1. Paste Detector Plan 1 into Detector Plan 2. Modify Detector Plan 2 as shown below and save changes.         Plan 2         54	MAXTI         Front Para         Main Main Main Main         Web Int         Home >         Patterr         Patterr         Patt         * The Fattern         the D
nings	MAXTIME ALTERNATE PHASING ACTIVA         To run alternate phasing, select a Pattern that is programmed to run Overlap Plan 2         A Pattern can be selected through the scheduler or manually by changing the Oper         PHASING       OVERLAP         ACTIVE PLAN REQUIRED TO RUN DEFAULT PHASING       1         ACTIVE PLAN REQUIRED TO RUN ALTERNATE PHASING       2	and Detector Pla ational Mode.
NOTICE INCLUDED PHASE NOTICE MODIFIER PHASE	ALTERNATE PHASING CHANGE SUMMARY THE FOLLOWING IS A SUMMARY OF WHAT TAKES PLACE WHEN OVERLAP PLAN 2 AND VEHICLE DETECTOR PLAN 2 ACTIVATE TO CALL THE "ALTERNATE PHASING": OVERLAP PLAN 2: Modifies overlap included phases for head 51 to run protected turns only. VEH DET PLAN 2: Disables phase 2 call on loop 5A and reduces delay time for phase 5 call on loop 5A to 0 seconds.	
	Tempo ELECTRIC MOTT MOTT MACDONALD 1& E, LLC 930 Main Campus Drive	rical Detail - rary Design 3 ( AL AND PROGRAMMING DETAILS FOR: Prepored for: Prepored for:

			PROJECT REFERENCE NO.	SHEET NO.
			R - 5726	Sig.8.2
ΜΔΥΤΙ		ATE PHASING F		
		/MING DETAIL	ATTENN	
Front Pa Main Me		oordination >Patterns		
Web Int		<i>и</i> <b>–</b> <i>и</i>		
	Controller >Coordir Parameters	nation >Patterns		
Patt	ern Veh Det Plan	Overlap Plan		
	* 2	2		
<b>*</b> The F	Pattern number(s) are t	o be determined by		
the D	ivision and/or City Traf	fic Engineer.		
ATION DE	TAIL			
2 and Detector Platerational Mode.	ו 2.			
PLAN V	EH DET PLAN			
	1			
	2			
]				
	<b></b>		7	
		RICAL DETAIL IS FOR DESIGN: 08-0098T3		
	DESIGNED:	June 2024		
	SEALED: 7. REVISED:	/11/2024		
trical Detail -			DOCUMENT NOT C	
orary Design 3 ( ICAL AND PROGRAMMING			FINAL UNLES SIGNATURES CO SEAL	
DETAILS FOR: Prepared for:	NC 73-	-211/NC 211 at	CARC	
Mobility and Stand	NC 73/SR	1133 (Mode Rd)	t End x	
	Division 8 Moore	e County Wes	t End	7 
obsion House	PLAN DATE:June 2024PREPARED BY:LD Stouch		X D STO	
G Signals Management	REVISIONS	INIT.	DATE	<b>,</b> •
reenfield Pkwy.Garner.NC 27529				DATE

DATE

SIG. INVENTORY NO. 08-009873

Front Panel

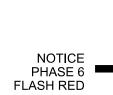
Main Menu >Controller >More>Channels>Channels Config

Web Interface

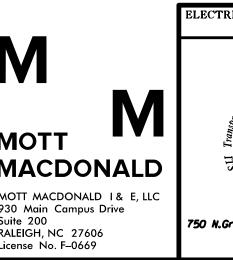
Home >Controller >Advanced IO>Channels>Channels Configuration

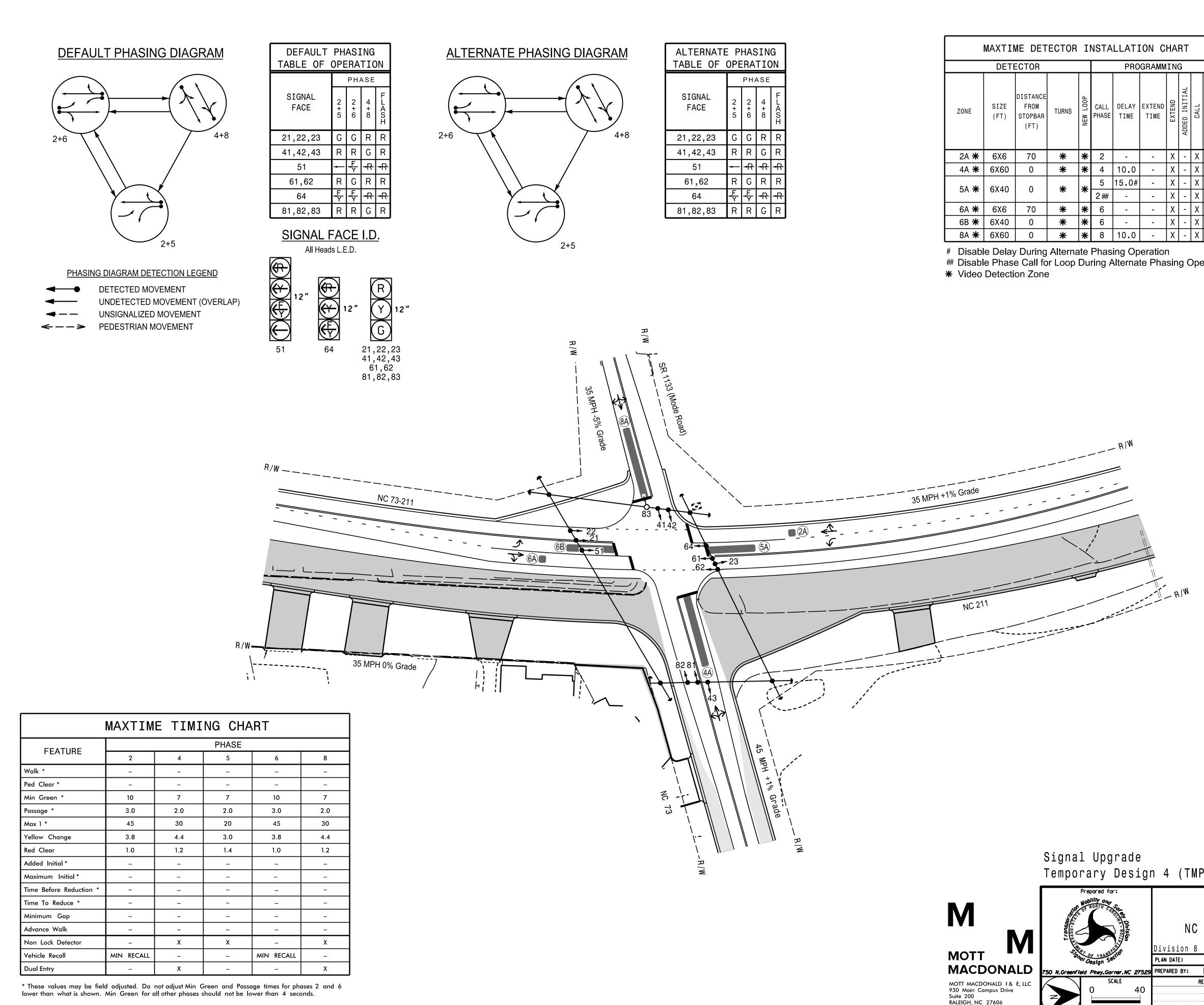
Channel Configuration

		mgaradon					
	Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel
	1	Phase Vehicle	1		Х	Х	1
NOTICE PHASE 2	2	Phase Vehicle	2		Х		2
FLASH RED	3	Phase Vehicle	3		Х	Х	3
	4	Phase Vehicle	4		Х		4
	5	Phase Vehicle	5		Х		5
NOTICE PHASE 6	6	Phase Vehicle	6		Х	Х	6
FLASH RED	7	Phase Vehicle	7		Х		7
	8	Phase Vehicle	8		Х	Х	8
	9	Overlap	1		Х	Х	9
FLASH RED	10	Overlap	2		Х	Х	10
NOTICE OVERLAP 3	11	Overlap	3		Х		11
FLASH RED	12	Overlap	4		Х		12
	13	Phase Ped	2				13
	14	Phase Ped	4				14
	15	Phase Ped	6				15
	16	Phase Ped	8				16
	17	Overlap	5		Х	Х	17
	18	Overlap	6		Х		18



	PROJECT REFERENCE NO. R-5726	SHEET NO. Sig.8.3
	N 0120	orgroto
MAXTIME STARTUP AND SOFTWARE FLASH		
PROGRAMMING DETAIL		
Front Panel		
Main Menu >Controller >Unit		
Web Interface		
Home >Controller >Unit		
Modify parameters as shown below and save changes.		
Startun Daramatara II. Init Elaah Daramatara		
Startup Parameters Unit Flash Parameters           Startup Clearance Hold         All Red Flash Exit Time		
6 6		
	_	
THIS ELECTRICAL DETAIL IS FOR		
THE SIGNAL DESIGN: 08-0098T3		
DESIGNED: June 2024 SEALED: 7/11/2024		
REVISED:		
Electrical Detail - Sheet 3 of 3 Temporary Design 3 (TMP Phase I)	DOCUMENT NOT C FINAL UNLES	SS ALL
ELECTRICAL AND PROGRAMMING	SIGNATURES CO	MPLETED
$\underline{\text{Details for:}} \qquad \text{NC}  73 - 211 / \text{NC}  211$	TH CARC	
Prepared for: Autor 10 Lity and Second Seco	OFESS /0	N. N.
NC 73/SR 1133 (MODE RU)	Find SEAL	
MOTT       MOTT       Division 8       Moore County       West         PLAN DATE:       June 2024       REVIEWED BY: R. Mullina		
MACDONALD PREPARED BY: LD Stouchko REVIEWED BY:		JCHIN
930 Main Campus Drive	DATE	
Suite 200         750 N.Greenfield Pkwy.Garner.NC 27529           RALEIGH, NC 27606         License No. F-0669	SIG. INVENTORY NO.	DATE 08-0098T3
	STOR INTERTORY NUR	00 001010





ALTERNATE PHASING TABLE OF OPERATION							
		ΡΗ	A S E				
SIGNAL FACE	2+5	2+6	4+8	FLAST			
21,22,23	G	G	R	R			
41,42,43	R	R	G	R			
51	ł	₽	<del>-</del> ₽	<del>≺R</del>			
61,62	R	G	R	R			
64	Б∱≻	Б∱≻	₹R	<del>-R</del>			
81,82,83	R	R	G	R			

	MAXTIME DETECTOR INSTALLATION CHART											
	DETI	ECTOR		PRO	GRAMM	IN	G					
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A <b>米</b>	6X6	70	*	*	2	-	-	Х	-	Х	-	*
4A 米	6X60	0	*	*	4	10.0	-	Х	-	Х	-	*
5A <b>米</b>	6X40	0	*	*	5	15.0#	-	Х	-	Х	-	*
JA 🛪	0740		不	₩	2 ##	-	-	Х	-	Х	-	*
6A <b>米</b>	6X6	70	*	*	6	-	-	Х	-	Х	-	*
6B 米	6X40	0	*	*	6	-	-	Х	-	Х	-	*
8A <b>米</b>	6X60	0	*	*	8	10.0	-	Х	-	Х	-	*

# Disable Delay During Alternate Phasing Operation
 ## Disable Phase Call for Loop During Alternate Phasing Operation

License No. F-0669

PROJECT REFERENCE NO.	SHEET NO.
R - 5726	Sig 9 O

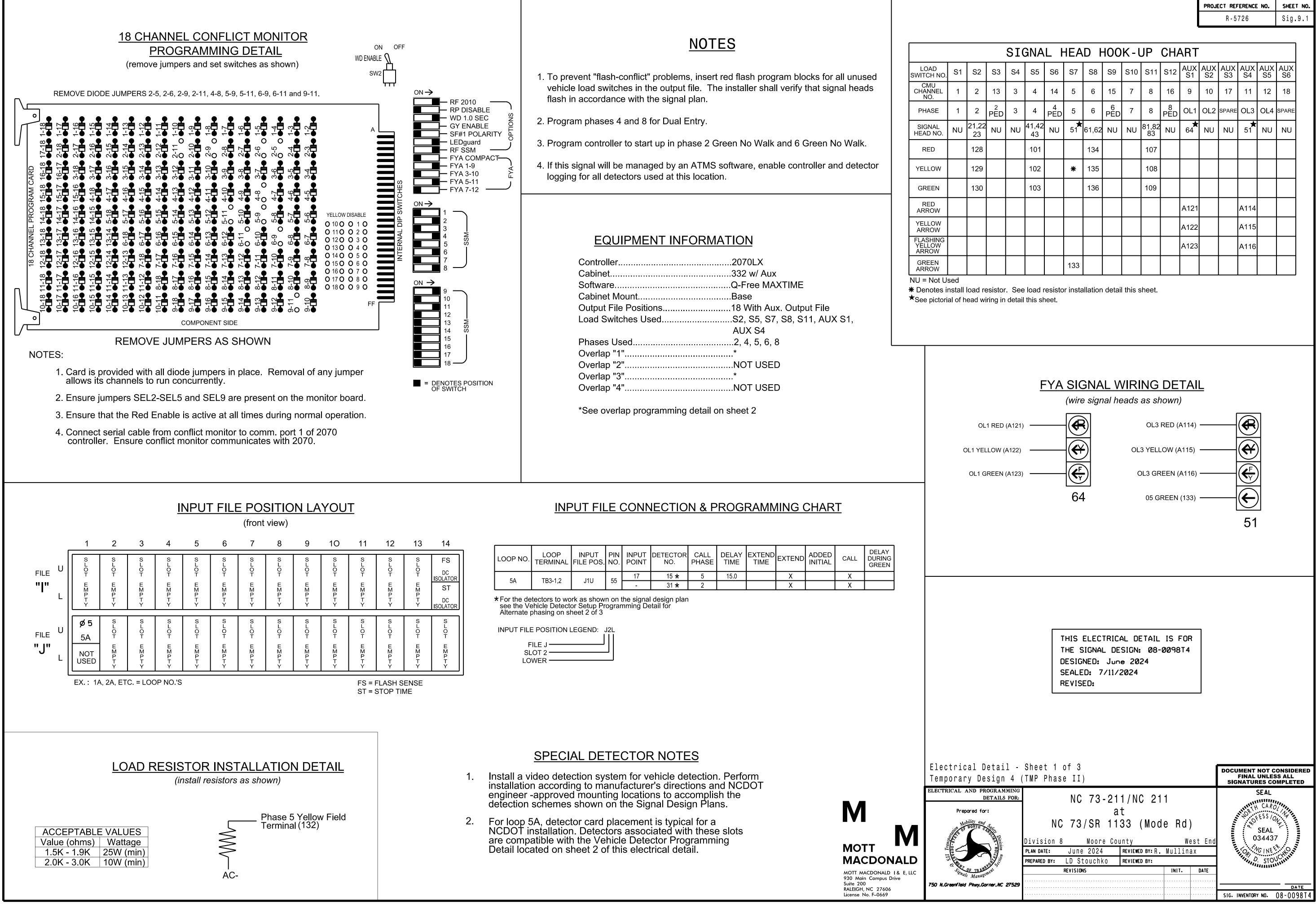
### 3 Phase Fully Actuated (Isolated)

### <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. Reposition existing signal heads numbered 21,22,23,51 61,62 and 64.
- 5. Set all detector units to presence mode.
- 6. The Division Traffic Engineer will determine the hours of use for each phasing plan.
- 7. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.

### LEGEND PROPOSED <u>EXISTING</u> Traffic Signal Head $\frown$ Modified Signal Head N/A ● Sign Ь Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy $\bigcirc$ 0— Signal Pole with Sidewalk Guy \_ **\_** Ù $\square$ Inductive Loop Detector \_\_\_\_\_ ر م $\boxtimes$ Controller & Cabinet Junction Box 2-in Underground Conduit \_----N/A Right of Way \_\_\_\_ $\rightarrow$ $\rightarrow$ Directional Arrow Construction Zone Non-Intrusive Detection Zone

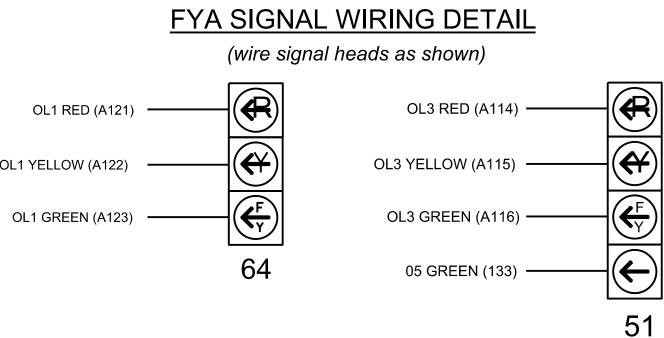
nal Upgrade porary Design	n 4 (TMP P	hase I	I)			DOCUMENT NOT FINAL UNLE SIGNATURES C	SS ALL
Prepared for:	NC 73 Division 8 PLAN DATE: Jun	a	33 (Mode	Rd) <sub>We</sub>	st End ax	SEAL WE TH CAR OFESS/ SEAL 03443 OS443 OS443 OS443 OS443 OS443 OS443 OS443 OS443 OS443	
SCALE 0 40	REVISIO	NS		INIT.	DATE		-
1 "=40'		· · · · · · · · · · · · · · · · · · ·				SIGNATURE SIG. INVENTORY NO.	DATE 08-0098T4



14														
-s	]	LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.		DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DEL DUR GRE
DC _ATOR		5A	TB3-1,2	J1U	55	17	15 <b>*</b>	5	15.0		Х		Х	
ST		ЪА	103-1,2	J10	55	-	31 <b>*</b>	2			Х		Х	

FILE J -	
SLOT 2 -	
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														PROJE	ECT REF		: NO.	SHEET	ſ NO.
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				SIC	GNA	Lŀ	HEA	'D F	100	K-l	JP	CH/	٩RT						
Э.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	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	PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE	
	NU	21,22 23	NU	NU	41,42 43	NU	<b>★</b> 51	61,62	NU	NU	81,82 83	NU	64 <b>★</b>	NU	NU	<b>★</b> 51	NU	NU	
		128			101			134			107								
		129			102		*	135			108								
		130			103			136			109								
													A121			A114			
													A122			A115			
3													A123			A116			
							133												



## MAXTIME OVERLAP PROGRAMMING DETAIL FOR DEFAULT PHASING

### Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

### Web Interface

Home >Controller >Overlap Configuration >Overlaps

### Overlap Plan 1

Overlap	1	2	3	4	
Туре	FYA 4 - Section	Off	FYA 4 - Section	Off	
Included Phases	2	-	6	-	
Modifier Phases	-	-	5	-	
Modifier Overlaps	-	-	-	-	
Trail Green	0	0	0	0	
Trail Yellow	0.0	0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	

## MAXTIME OVERLAP PROGRAMMING DETAIL FOR ALTERNATE PHASING

Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timing

Web Interface

Home >Controller >Overlap Configuration >Overlaps

In the table view of the web interface, right click on "Overlap" in the top left corner of the table. Copy the entire contents of Overlap Plan 1. Paste Overlap Plan 1 into Overlap Plan 2. Modify Overlap Plan 2 as shown below and save changes.

### Overlap Plan 2

Overlap	1	2	3	4	
Туре	FYA 4 - Section	Off	FYA 4 - Section	Off	
Included Phases	2	-	-	-	
Modifier Phases	-	-	5	-	←
Modifier Overlaps	-	-	-	-	
Trail Green	0	0	0	0	
Trail Yellow	0.0	0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	

S TICE INCLUDED PHASE TICE MODIFIER PHASE	MAXTIME DETECTOR PROGRAMMING DETAIL FOR ALTERNATE PHASING LOOP 5A         Front Panel Main Menu >Controller >Detector >Veh Det Plans         Web Interface Home >Controller >Detector Configuration >Vehicle Detectors         In the table view of web interface right click on "Detector" in the top left corner of the table. Copy the entire contents of Detector Plan 1. Paste Detector Plan 1 into Detector Plan 2. Modify Detector Plan 2 as shown below and save changes.         Plan 2         Total Phase Delay 15 5         54	MAXTI Front Pa Main Me Neb Int Home > Pattern Pattern The P the D
nings	MAXTIME ALTERNATE PHASING ACTIV         To run alternate phasing, select a Pattern that is programmed to run Overlap Pla A Pattern can be selected through the scheduler or manually by changing the Operation         PHASING       OVERLA         ACTIVE PLAN REQUIRED TO RUN DEFAULT PHASING       1         ACTIVE PLAN REQUIRED TO RUN ALTERNATE PHASING       2	an 2 and Detector Plan perational Mode. <u>PPLAN</u> <u>V</u>
NOTICE INCLUDED PHASE NOTICE MODIFIER PHASE	ALTERNATE PHASING CHANGE SUMMARY         THE FOLLOWING IS A SUMMARY OF WHAT TAKES PLACE WHEI         OVERLAP PLAN 2 AND VEHICLE DETECTOR PLAN 2 ACTIVATE         TO CALL THE "ALTERNATE PHASING":         OVERLAP PLAN 2:       Modifies overlap included phases         for head 51 to run protected turns only.         VEH DET PLAN 2:       Disables phase 2 call on loop 5A         and reduces delay time for phase 5         call on loop 5A to 0 seconds.	Ν
	Ter ELEC MOTT MACDONALD I & E, LLC 930 Main Campus Drive	ectrical Detail - nporary Design 4 ( TRICAL AND PROGRAMMING DETAILS FOR: Prepored for: Prepored for: Management Management

		PROJECT REFERENCE NO. R-5726	SHEET NO. Sig.9.2
		n - 5720	319.9.Z
MAXTIN	<u>/E ALTERNATE PHASING</u>		
	PROGRAMMING DETAI	=	
Front Par Main Mer	nel nu >Controller >Coordination >Patterr	S	
Web Inter Home >C	rface Controller >Coordination >Patterns		
Pattern F	Parameters		
Patter	n Veh Det Plan Overlap Plan * 2 2		
<b>*</b> The Pa	ttern number(s) are to be determined by		
	ision and/or City Traffic Engineer.		
ATION DET	<u>TAIL</u>		
2 and Detector Plan erational Mode.	2.		
PLAN VE	H DET PLAN		
	1 2		
	2		
	THIS ELECTRICAL DETAIL IS FO	2	
	THE SIGNAL DESIGN: 08-009814 DESIGNED: June 2024		
	SEALED: 7/11/2024		
	REVISED:		
trical Detail - S orary Design 4 (T		DOCUMENT NOT O FINAL UNLES SIGNATURES CO	SS ALL
ICAL AND PROGRAMMING DETAILS FOR:	NC 73-211/NC 211	SEAL	
Prepared for:	at NC 73/SR 1133 (Mode Rd	) est End ax b c c c c c c c c c c c c c c c c c c	N.
	ivision 8 Moore County W	est End	7 24 24 24 24 24 24 24 24 24 24 24 24 24
	LAN DATE: June 2024 REVIEWED BY: R. Mullin REPARED BY: LD Stouchko REVIEWED BY:		
reenfield Ptwy.Gorner.NC 27529	REVISIONS INIT.	DATE	

DATE

SIG. INVENTORY NO. 08-009874

### Front Panel

Main Menu >Controller >More>Channels>Channels Config

### Web Interface

Home >Controller >Advanced IO>Channels>Channels Configuration

			-			
	Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt
NOTIOE	1	Phase Vehicle	1		Х	Х
NOTICE PHASE 2	2	Phase Vehicle	2		Х	
FLASH RED	3	Phase Vehicle	3		Х	Х
	4	Phase Vehicle	4		Х	
	5	Phase Vehicle	5		Х	
NOTICE PHASE 6	6	Phase Vehicle	6		Х	Х
FLASH RED	7	Phase Vehicle	7		Х	
	8	Phase Vehicle	8		Х	Х
	9	Overlap	1		Х	Х
FLASH RED	10	Overlap	2		Х	Х
NOTICE OVERLAP 3	11	Overlap	3		Х	
FLASH RED	12	Overlap	4		Х	
	13	Phase Ped	2			
	14	Phase Ped	4			
	15	Phase Ped	6			
	16	Phase Ped	8			
	17	Overlap	5		Х	Х
	18	Overlap	6		Х	

MAXTIME S	STARTUP AND SOFTWARE FLASH
ŀ	PROGRAMMING DETAIL

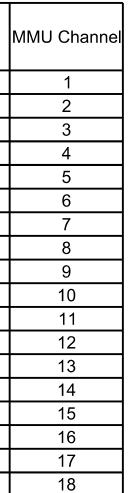
Front Panel Main Menu >Controller >Unit

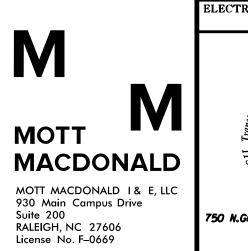
Web Interface Home >Controller >Unit

Modify parameters as shown below and save changes.

_	Startup Parameters
	Startup Clearance Hold
ſ	6

Unit Flash Parameters
All Red Flash Exit Time
6

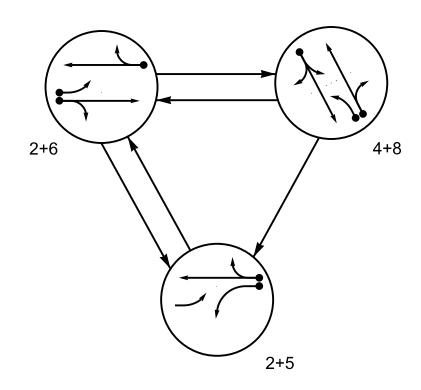




PROJECT REFERENCE NO. SHEET NO. R-5726 Sig.9.3 THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0098T4 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED: Electrical Detail - Sheet 3 of 3 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED Temporary Design 4 (TMP Phase I) ELECTRICAL AND PROGRAMMING DETAILS FOR: SEAL NC 73-211/NC 211 CAR Prepared for: at FESS/01 NC 73/SR 1133 (Mode Rd) SEAL 034437 Division 8 Moore County West End June 2024 REVIEWED BY: R. Mullinax PLAN DATE: PREPARED BY: LD Stouchko REVIEWED BY: REVISIONS INIT. DATE 750 N.Greenfield Pkwy.Garner.NC 27529 DATE SIG. INVENTORY NO. 08-009874

	<u>DEFAUL</u>	<u>.I PHASI</u>	ING DIA	<u>GRAM</u>		DEFAULT PH	
				4+8		SIGNAL 2 FACE + 5	PHASE 2 4 + 6 8
	2+6	$\backslash$		4+0		1,22,23 G 1,42,43 R	
	$\backslash$	$\backslash \backslash$					╴ <del>╺</del> ╋╺╤
						51 <del>~</del> 61,62 R	- <del></del> G R
						64 <del>F</del>	
			2+5		8	1,82,83 R	RG
		DIAGRAM D			<u>S</u>	IGNAL FA	
	< (	DETECTED M JNDETECTE JNSIGNALIZE PEDESTRIAN	D MOVEMEN ED MOVEME		51	12" 44 64	1 <b>2"</b> 21 41 81
				R/W		NC 7	73-211
				<u> </u>			
					$\overline{\boldsymbol{\zeta}}$		
							$\leq$
			R	YW		35	МРН С
			R	2/W		35	МРН (
	MAXTIME	E TIMI	NG CH			35	
FEATURE		Ξ ΤΙΜΙ			8	35	
Walk *	2	4	NG CHA PHASE 5 -	 ART 6 	8 _	35	
	2	4	NG CHA PHASE	 ART	8	35	
Walk * Ped Clear *	2 	4 _ _	NG CH PHASE 5 - -	ART 6 	8 – –	35	
Walk * Ped Clear * Min Green *	2  10	4 - - 7	NG CHA PHASE 5 - - 7	ART 6 	8 – – 7	35	
Walk * Ped Clear * Min Green * Passage * Max 1 * Yellow Change	2  10 3.0	4 - - 7 2.0	NG CH PHASE 5 - - 7 2.0	ART 6 	8 - - 7 2.0	35	
Walk * Ped Clear * Min Green * Passage * Max 1 * Yellow Change Red Clear	2  10 3.0 45	4 - - 7 2.0 30	NG CH PHASE 5 - 7 2.0 20	ART 6 	8 - - 7 2.0 30	35	
Walk * Ped Clear * Min Green * Passage * Max 1 * Yellow Change Red Clear Added Initial *	2  10 3.0 45 3.8 1.5 -	4  7 2.0 30 4.4 2.6 -	NG CHA PHASE 5 - 7 2.0 20 3.0 2.3 -	ART 6 	8 - - 7 2.0 30 4.4 2.6 -	35	
Walk * Ped Clear * Min Green * Passage * Max 1 * Yellow Change Red Clear Added Initial * Maximum Initial *	2  10 3.0 45 3.8 1.5 - -	4 - - 7 2.0 30 4.4 2.6 - -	NG CHA PHASE 5 - - 7 2.0 20 3.0 2.3 - - - 3.0 2.3	ART 6 	8 - - 7 2.0 30 4.4 2.6 - -	35	
Walk * Ped Clear * Min Green * Passage * Max 1 * Yellow Change Red Clear Added Initial * Maximum Initial *	2  10 3.0 45 3.8 1.5 -	4  7 2.0 30 4.4 2.6 -	NG CHA PHASE 5 - 7 2.0 20 3.0 2.3 -	ART 6 	8 - - 7 2.0 30 4.4 2.6 -		
Walk * Ped Clear * Min Green * Passage * Max 1 * Yellow Change Red Clear Added Initial * Maximum Initial *	2  10 3.0 45 3.8 1.5  - - -	4 - 7 2.0 30 4.4 2.6 - - - -	NG CHA PHASE 5 - - 7 2.0 20 3.0 2.3 - - - - -	ART 6 – – 10 3.0 45 3.8 1.5 – – –	8 - - 7 2.0 30 4.4 2.6 - - -		
Walk * Ped Clear * Min Green * Passage * Max 1 * Yellow Change Red Clear Added Initial * Maximum Initial * Time Before Reduction * Time To Reduce *	2 	4 - 7 2.0 30 4.4 2.6 - - - - - -	NG CHA PHASE 5 - - 7 2.0 20 3.0 2.3 - - - - - - -	ART 6 	8 - - 7 2.0 30 4.4 2.6 - - - - -		
Walk * Ped Clear * Min Green * Passage * Max 1 * Yellow Change Red Clear Added Initial * Maximum Initial * Time Before Reduction * Time To Reduce * Minimum Gap	2 	4 - 7 2.0 30 4.4 2.6 - - - - - - - - -	NG CHA PHASE 5 - - 7 2.0 20 3.0 2.3 - - - - - - - - - -	ART 6 	8 - - 7 2.0 30 4.4 2.6 - - - - - -		
Walk * Ped Clear * Min Green * Passage * Max 1 * Yellow Change Red Clear Added Initial * Maximum Initial * Time Before Reduction * Time To Reduce * Minimum Gap Advance Walk	2 	4 - 7 2.0 30 4.4 2.6 - - - - - - - - - - - - -	NG CHA PHASE 5 - - 7 2.0 20 3.0 2.3 - - - - - - - - - - - - - - - -	ART 6 	8 - - 7 2.0 30 4.4 2.6 - - - - - - - - - - -		

### ALTERNATE PHASING DIAGRAM

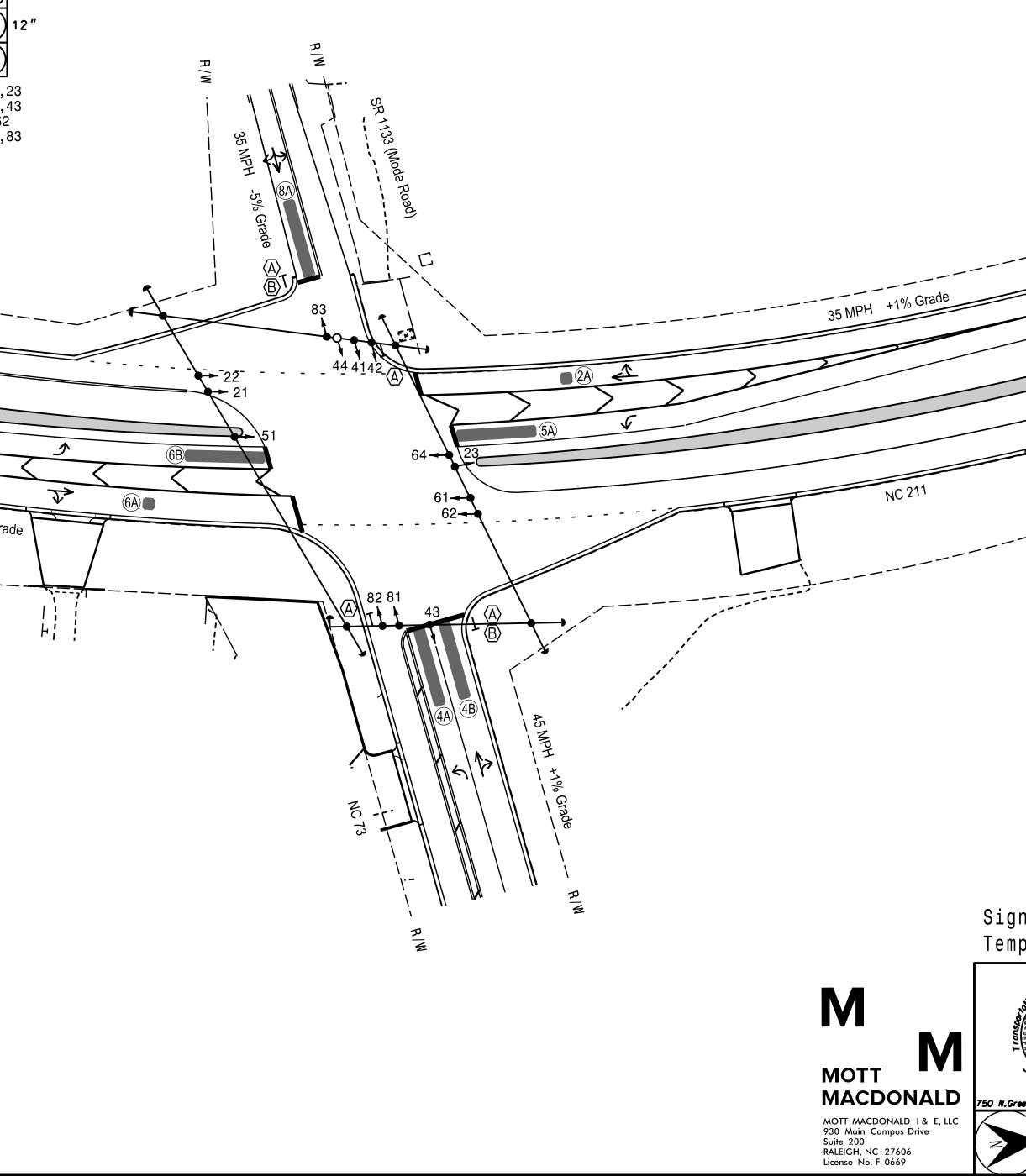


ALTERNATE PHASING TABLE OF OPERATION											
		PHA	<b>\SE</b>								
SIGNAL FACE	2+5	2+6	4+8	FLASH							
21,22,23	G	G	R	R							
41,42,43	R	R	G	R							
44	╉	<del>⊀R</del>	ч∱≻	<del>≺R</del>							
51	ł	<del>-R</del>	₽	<del>-R</del>							
61,62	R	G	R	R							
64	ч⊳	F	╉	<del>≺R</del>							
81,82,83	R	R	G	R							

	MAXTI	ME DET	ECTOR	I	NSTA	LLAT]	ION C	HA	RT			
	DETI	ECTOR		PROGRAMMING								
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A 米	6X6	70	*	*	2	-	-	Х	-	Х	-	*
4A 米	6X40	0	*	*	4	3.0	-	Х	-	Х	-	*
4B 米	6X40	0	*	*	4	-	-	Х	-	Х	-	*
5A <b>*</b>	6X40	0	*	*	5	15.0#	-	Х	-	Х	-	*
5A <b>ক</b>	0740	0	不	*	2##	-	-	Х	-	Х	-	*
6A <b>米</b>	6X6	70	*	*	6	-	-	Х	-	Х	-	*
6B 米	6X40	0	*	*	6	-	-	Х	-	Х	-	*
8A 米	6X40	0	*	*	8	3.0	-	Х	-	Х	-	*

# Disable Delay During Alternate Phasing Operation
 # Disable Phase Call for Loop During Alternate Phasing Operation

\* Video Detection Zone



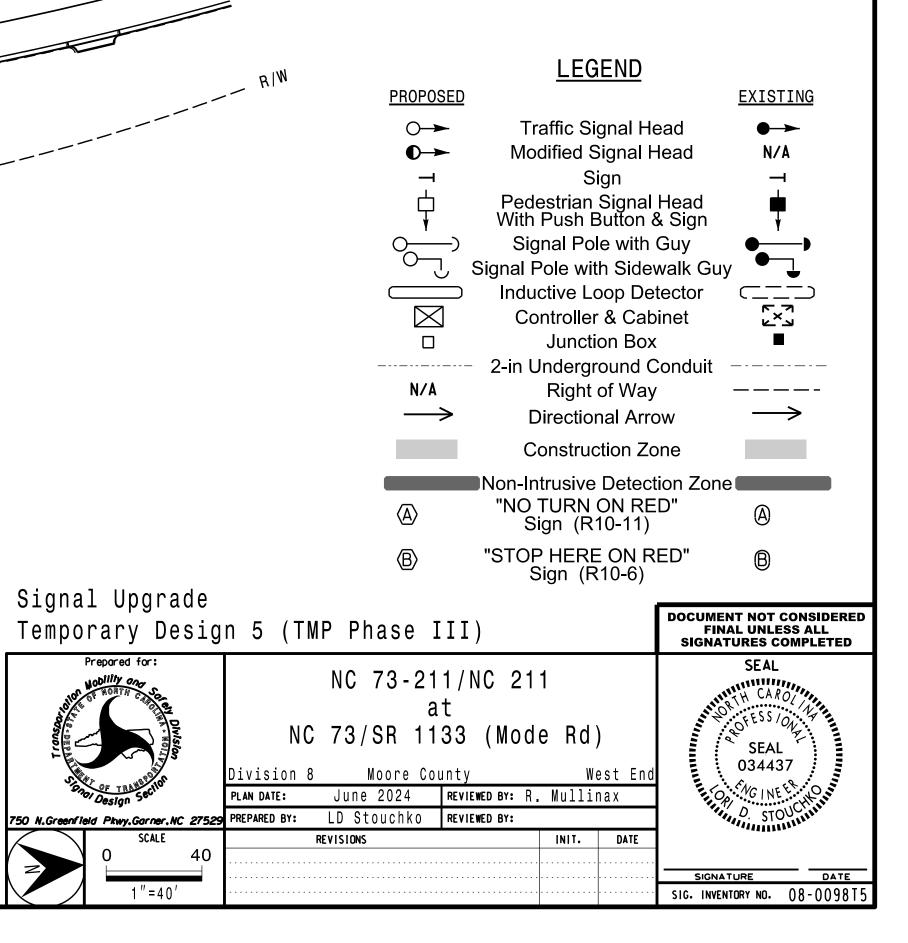
PROJECT REFERENCE NO.	SHEET NO.
R - 5726	Sig 10 0

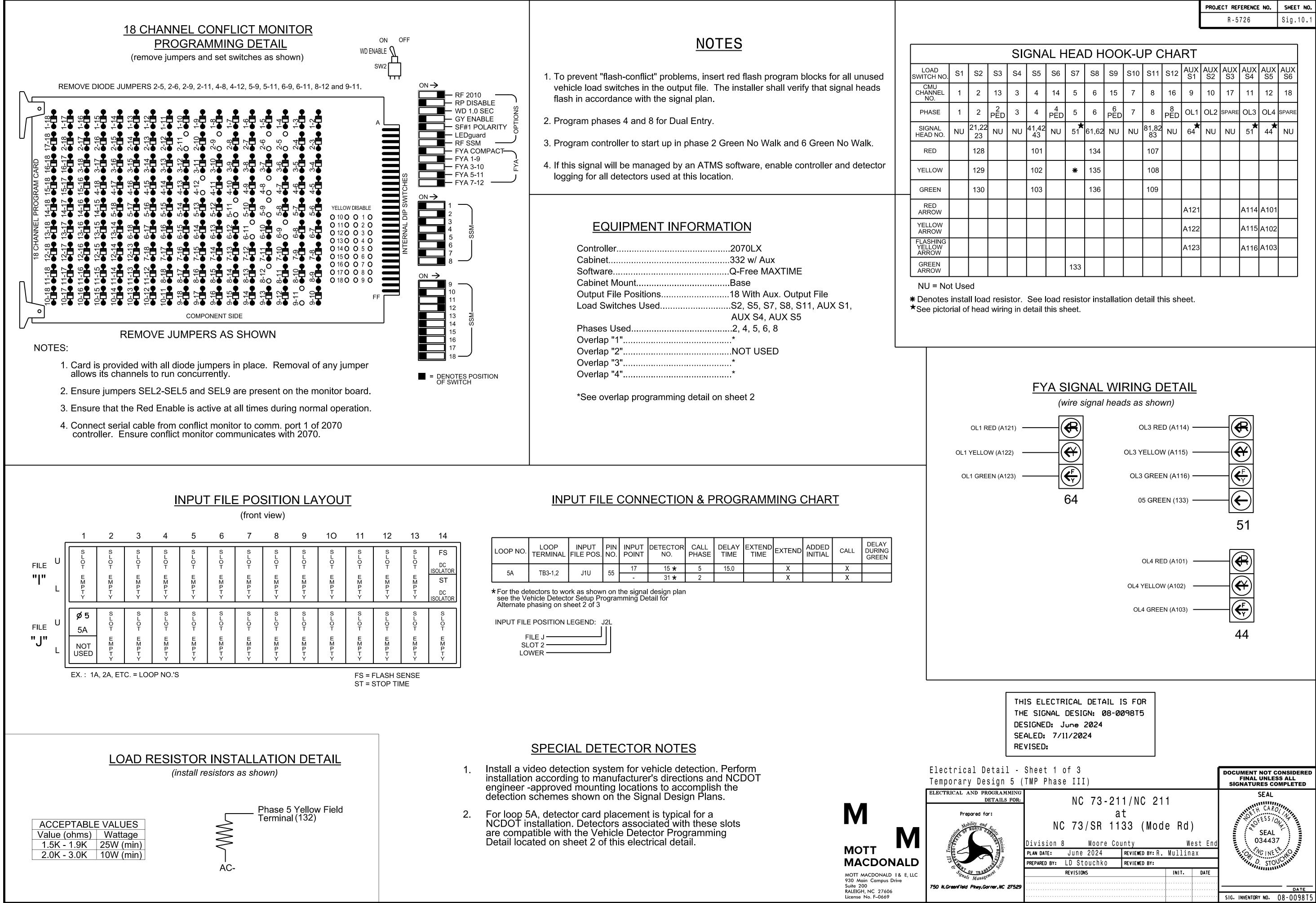
WIA

3 Phase Fully Actuated (Isolated)

### <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. Reposition exsisting signal heads numbered 21,22,23,51,61,62 and 64.
- 5. Set all detector units to presence mode.
- 6. The Division Traffic Engineer will determine the hours of use for each phasing plan.
- 7. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.





13	14	_
S I	FS	
S L O T	DC ISOLATOR	
E M	ST	
EMPTY	DC ISOLATOR	
S L O T	S L O T	
E M P T Y	E M P T Y	

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	pin No.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURIN GREEN
5A		J1U	55	17	15 ★	5	15.0		Х		Х	
ЭА	TB3-1,2	510	55	-	31 ★	2			Х		Х	

														PROJE	ECT REF	ERENCE	NO.	SHEE	T NO
															R - 5	726		Sig.	10.
													•						
				SI	GNA		IEA	DH	00	K-L	IP C	HA	RT						
).	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	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	OL2	SPARE	OL3		SPARE	
	NU	21,22 23	NU	NU	41,42 43	NU	★ 51	61,62	NU	NU	81,82 83	NU	<b>★</b> 64	NU	NU	★ 51	<b>★</b> 44	NU	
		128			101			134			107								
		129			102		*	135			108								
		130			103			136			109								
													A121			A114	A101		
													A122			A115	A102		
ì													A123			A116	A103		
							133												

## MAXTIME OVERLAP PROGRAMMING DETAIL FOR DEFAULT PHASING

Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface

Home >Controller >Overlap Configuration >Overlaps

Overlap Plan 1

Overlap	1	2	3	4	
Туре	FYA 4 - Section	Off	FYA 4 - Section	FYA 4 - Section	
Included Phases	2	-	6	8	
Modifier Phases	-	-	5	-	
Modifier Overlaps	-	-	-	-	
Trail Green	0	0	0	0	
Trail Yellow	0.0	0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	



Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface Home >Controller >Overlap Configuration >Overlaps

In the table view of the web interface, right click on "Overlap" in the top left corner of the table. Copy the entire contents of Overlap Plan 1. Paste Overlap Plan 1 into Overlap Plan 2. Modify Overlap Plan 2 as shown below and save changes.

Overlap Plan 2

Overlap Type Included Phases Modifier Phases Modifier Overlaps	-	2 Off - - -	3 FYA 4 - Section - 5 -	4 FYA 4 - Section 8 - -	44
	2	-	- 5	8	
	-	-	5	-	-
Trail Green	- 0	- 0		<u>-</u> 0	
Trail Yellow	0.0	0.0	0.0	0.0	
Trail Red	0.0	0.0	0.0	0.0	

## FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

1. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2

2. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2

3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER

E INCLUDED PHASE 2E MODIFIER PHASE	MAXTIME DETECTOR PROGRAMMING DETAIL DOR ALTERNATE PHASING LOOP 5A         Front Panel Main Menu >Controller >Detector >Veh Det Plans         Web Interface Home >Controller >Detector Configuration >Vehicle Detectors         In the table view of web interface right click on "Detector" in the top left corner of the table. Copy the entire contents of Detector Plan 1. Paste Detector Plan 1 into Detector Plan 2. Modify Detector Plan 2 as shown below and save changes.         Jan 2         Tota 15 5 1 - 31 0 -	MAXTIN Front Par Main Mer Web Inte Home >C Pattern Patter the Div
ngs	MAXTIME ALTERNATE PHASING AC         To run alternate phasing, select a Pattern that is programmed to run Over A Pattern can be selected through the scheduler or manually by changing         PHASING       OV         ACTIVE PLAN REQUIRED TO RUN DEFAULT PHASING ACTIVE PLAN REQUIRED TO RUN ALTERNATE PHASING	
NOTICE INCLUDED PHASE NOTICE MODIFIER PHASE	ALTERNATE PHASING CHANGE SUMMA THE FOLLOWING IS A SUMMARY OF WHAT TAKES PLAC OVERLAP PLAN 2 AND VEHICLE DETECTOR PLAN 2 ACT TO CALL THE "ALTERNATE PHASING": OVERLAP PLAN 2: Modifies overlap included phases for head 51 to run protected turns only. VEH DET PLAN 2: Disables phase 2 call on loop 5A and reduces delay time for phase 5 call on loop 5A to 0 seconds.	E WHEN
ES: T2-2. T2-3. R UNIT 1.	M M MOTT MACDONALD 1 & F. LL 930 Main Campus Drive Suite 200 RALEIGH, NC 27606 JILEIGH, NC 27606 JILEIGH, NC 27606	

			PROJECT REFERENCE NO.	SHEET NO.
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	<u>ALTERNATE PI</u> PROGRAMMING		TTERN	
Front Panel Main Menu >	·Controller >Coordinati	on >Patterns		
Web Interfac	Δ			
	c roller >Coordination >F	Patterns		
Pattern Para				
Pattern *	Veh Det PlanOverlap P22	rian		
	n number(s) are to be dete			
the Divisior	and/or City Traffic Engine	eer.		
ATION DETA				
2 and Detector Plan 2.				
rational Mode.				
PLAN VEH I	DET PLAN			
	1			
	2			
	THIS ELECTRICAL	DETAIL IS FOR		
	THE SIGNAL DESIG			
	DESIGNED: June 2 SEALED: 7/11/202			
	REVISED:			
J				
ctrical Detail - She			DOCUMENT NOT C	
orary Design 5 (TMP	Phase III)		FINAL UNLES SIGNATURES CO	
RICAL AND PROGRAMMING DETAILS FOR:	NC 73-211/	NC 211		
Prepared for:	at NC 73/SR 1133	(Mada Dd)	End End End End End End End End End End	N. N. M.
A MORTA Ser		· · · · · ·	SEAL	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	ision 8 Moore County DATE: June 2024 REV	y      West I <b>EWED BY: R.</b> Mullinax		
PREP.	ARED BY: LD Stouchko REVI REVISIONS	IEWED BY: Init. (		10, 111, 11, 11, 11, 11, 11, 11, 11, 11,
Greenfield Pkwy.Garner.NC 27529		·····	·····	

DATE

SIG. INVENTORY NO. 08-009815

### Front Panel

Main Menu >Controller >More>Channels>Channels Config

### Web Interface

Home >Controller >Advanced IO>Channels>Channels Configuration

			-			
	Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt
NOTIOE	1	Phase Vehicle	1		Х	Х
NOTICE PHASE 2	2	Phase Vehicle	2		Х	
FLASH RED	3	Phase Vehicle	3		Х	Х
	4	Phase Vehicle	4		Х	
	5	Phase Vehicle	5		Х	
NOTICE PHASE 6	6	Phase Vehicle	6		Х	Х
FLASH RED	7	Phase Vehicle	7		Х	
NOTIOE	8	Phase Vehicle	8		Х	Х
	9	Overlap	1		Х	Х
FLASH RED	10	Overlap	2		Х	Х
NOTICE OVERLAP 3	11	Overlap	3		Х	
FLASH RED	12	Overlap	4		Х	
	13	Phase Ped	2			
	14	Phase Ped	4			
	15	Phase Ped	6			
	16	Phase Ped	8			
	17	Overlap	5		Х	Х
	18	Overlap	6		Х	

MAXTIME S	STARTUP AND SOFTWARE FLASH
ŀ	PROGRAMMING DETAIL

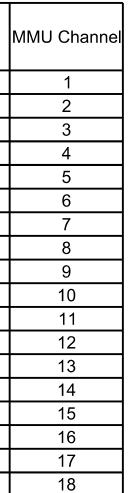
Front Panel Main Menu >Controller >Unit

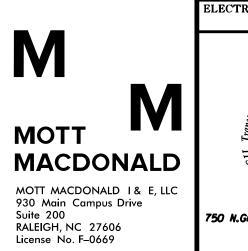
Web Interface Home >Controller >Unit

Modify parameters as shown below and save changes.

_	Startup Parameters
	Startup Clearance Hold
ſ	6

Unit Flash Parameters
All Red Flash Exit Time
6





# PROJECT REFERENCE NO. SHEET NO. R-5726 Sig 10.3 THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-009815 DESIGNED: June 2024 SEALED: 7/11/2024 REVISED: Electrical Detail - Sheet 3 of 3 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED Temporary Design 5 (TMP Phase I) ELECTRICAL AND PROGRAMMING DETAILS FOR: SEAL NC 73-211/NC 211 CAR Prepared for: at FESS/01 NC 73/SR 1133 (Mode Rd) SEAL 034437 Division 8 Moore County West End June 2024 REVIEWED BY: R. Mullinax PLAN DATE: PREPARED BY: LD Stouchko REVIEWED BY: REVISIONS INIT. DATE 750 N.Greenfield Pkwy.Garner.NC 27529 DATE SIG. INVENTORY NO. 08-009875