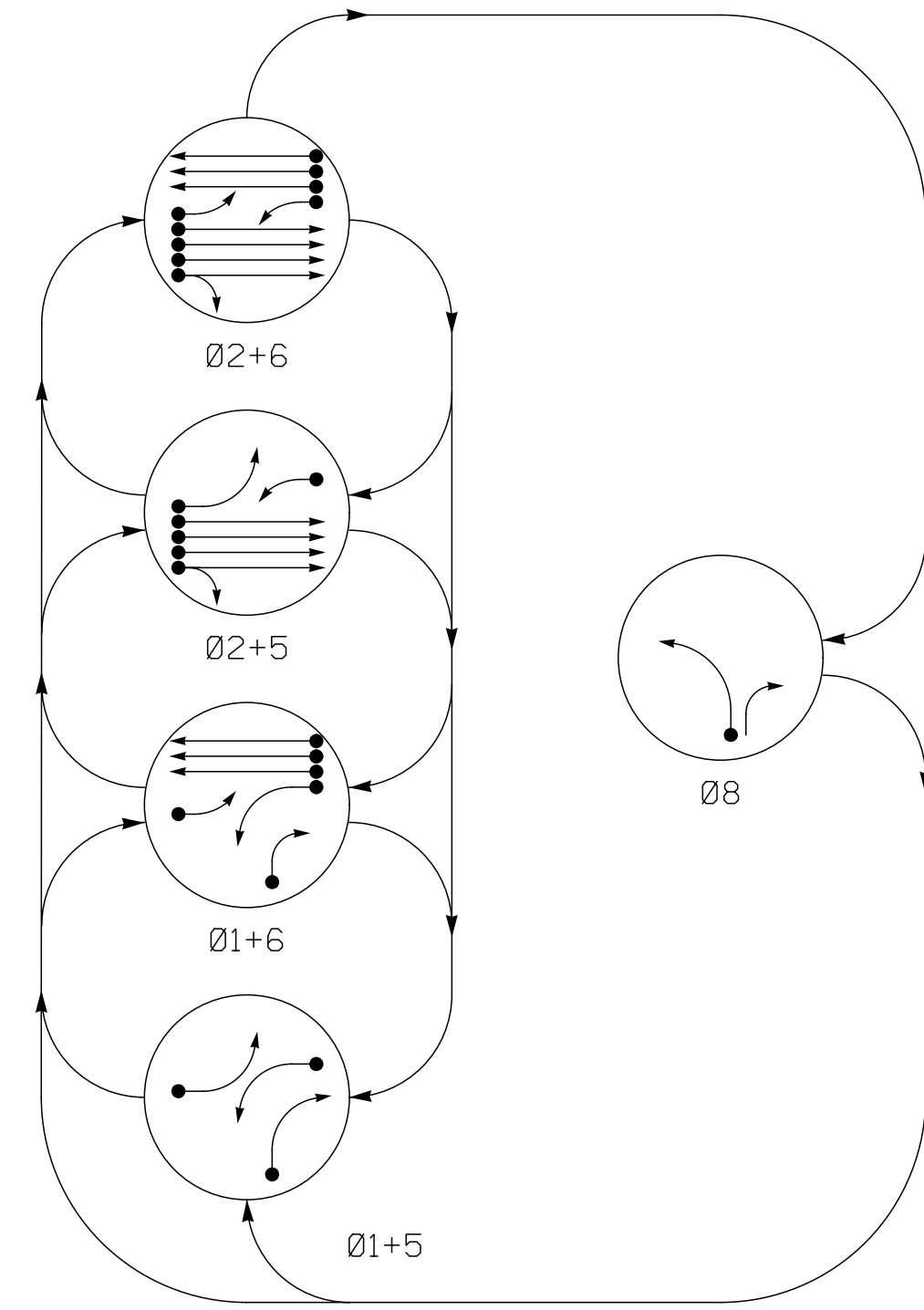
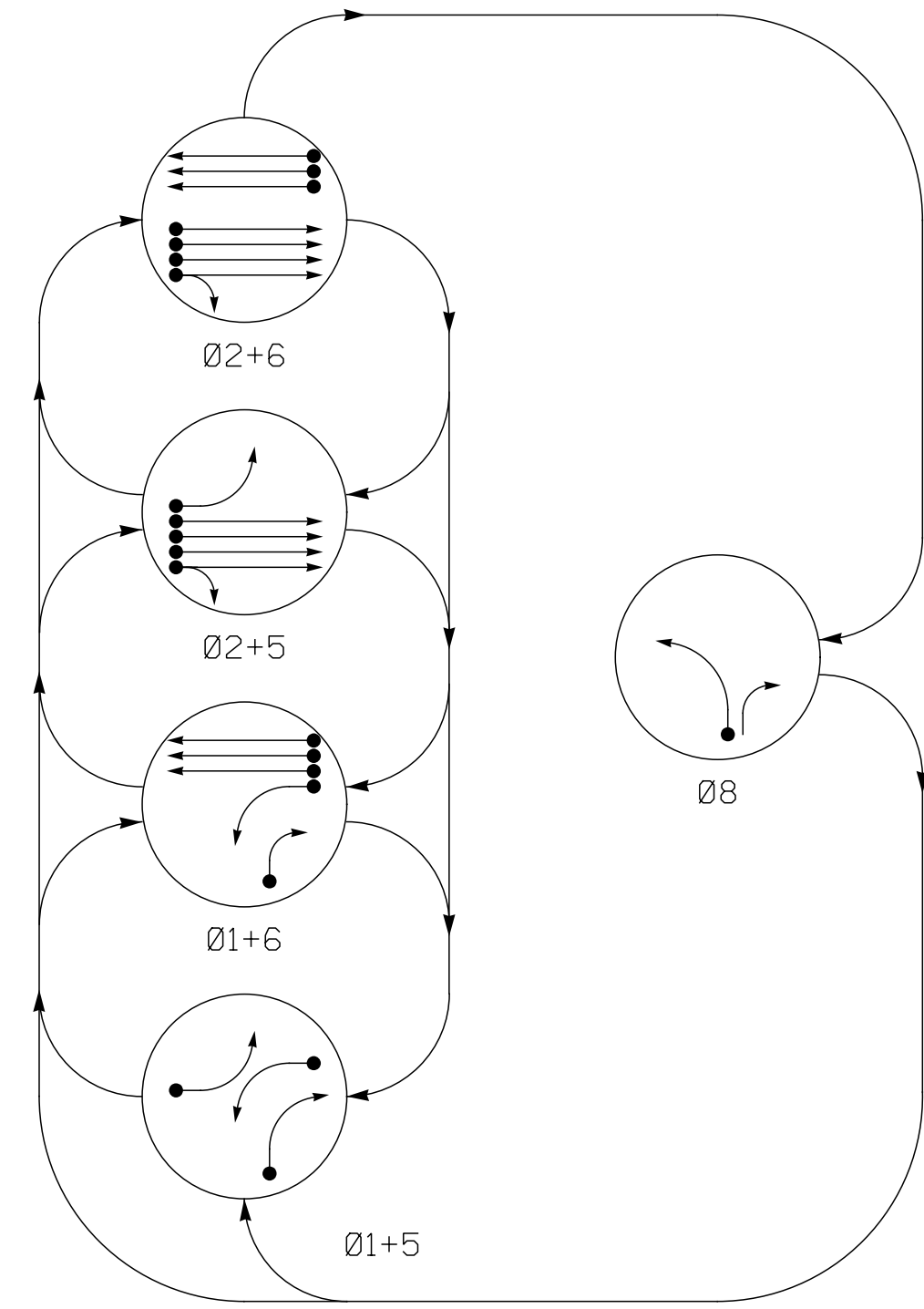


**DEFAULT PHASING DIAGRAM**



**ALTERNATE PHASING DIAGRAM**



**DEFAULT PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE					FLASH
	01+5	01+6	02+5	02+6	08	
11	←	←	←	←	←	Y
21,22,23,24	R	R	G	G	R	Y
51	↶	↷	↶	↷	↶	Y
61,62,63	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	↶	↷	R	R	G	R

**ALTERNATE PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE					FLASH
	01+5	01+6	02+5	02+6	08	
11	←	←	R	R	R	Y
21,22,23,24	R	R	G	G	R	Y
51	↶	↷	R	R	R	Y
61,62,63	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	↶	↷	R	R	G	R

**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	15**	-	Y
1B	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	-	Y
2A	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2C	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2D	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15**	-	Y
6A	6X6	300	6	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	300	6	Y	6	Y	Y	-	-	-	-	Y
6C	6X6	300	6	Y	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	3	-	Y
S1X	6X6	+150	-	Y	-	-	-	-	-	-	-	Y
S2X	6X6	+150	-	Y	-	-	-	-	-	-	-	Y
S3X	6X6	+150	-	Y	-	-	-	-	-	-	-	Y
S4X	6X6	+150	-	Y	-	-	-	-	-	-	-	Y
S5X	6X6	+150	-	Y	-	-	-	-	-	-	-	Y
S6X	6X6	+150	-	Y	-	-	-	-	-	-	-	Y

\* - Disable Phase Call for loop(s) during Alternate Phasing operation.  
 \*\* - Disable Delay during Alternate Phasing operation.

**5 Phase Fully Actuated US 70 Business - NC 42 (Clayton) CLS**

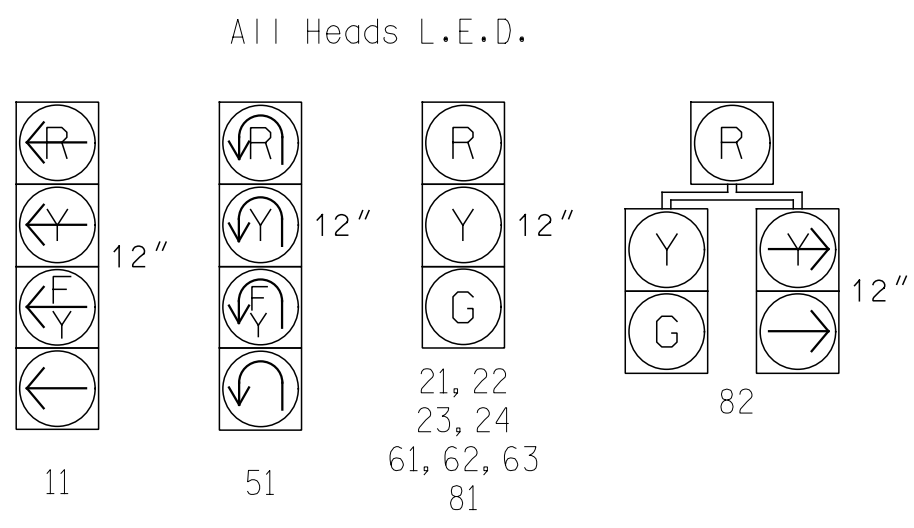
**NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Refer to pavement markings plan for stop bar locations.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Closed loop system data: Controller Asset # 04-1428

**PHASING DIAGRAM DETECTION LEGEND**

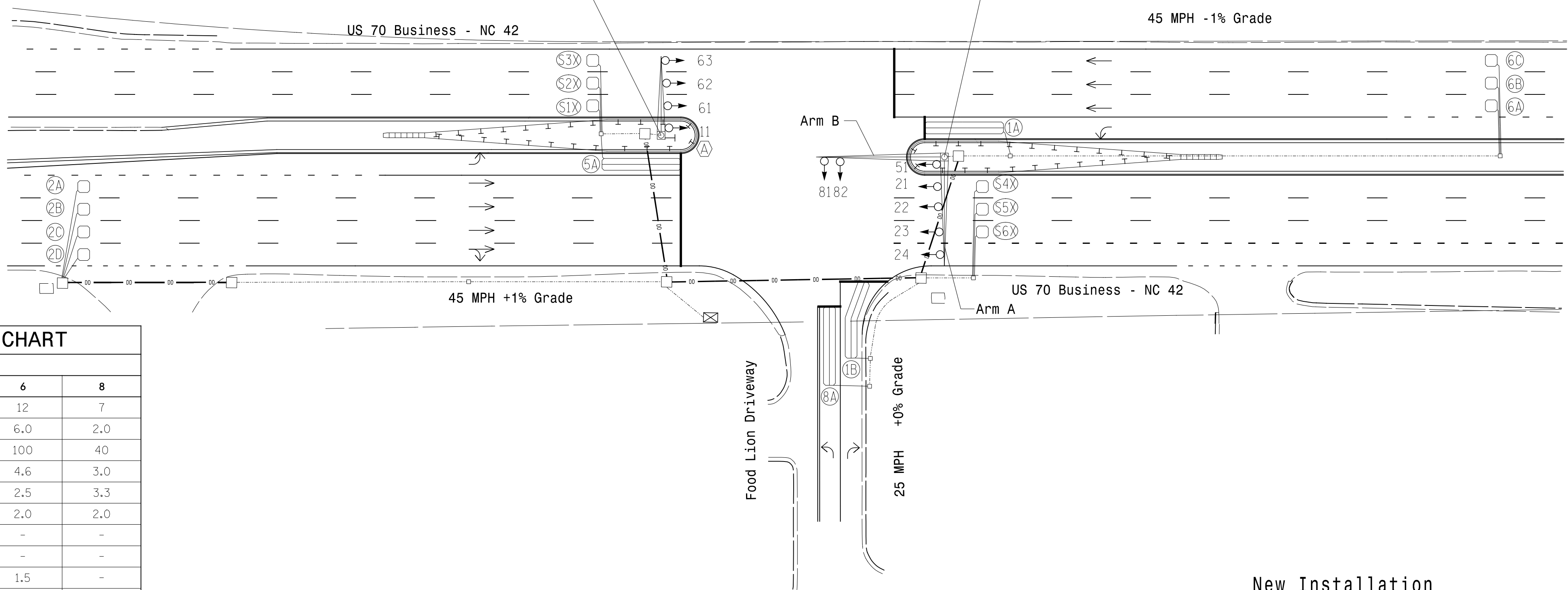
- ← ● DETECTED MOVEMENT
- ← ○ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

**SIGNAL FACE I.D.**



**Mast Arm #1**  
Sta. 126+18  
5.25' LT

**Mast Arm #2**  
Sta. 127+62  
5.75' RT



**LEGEND**

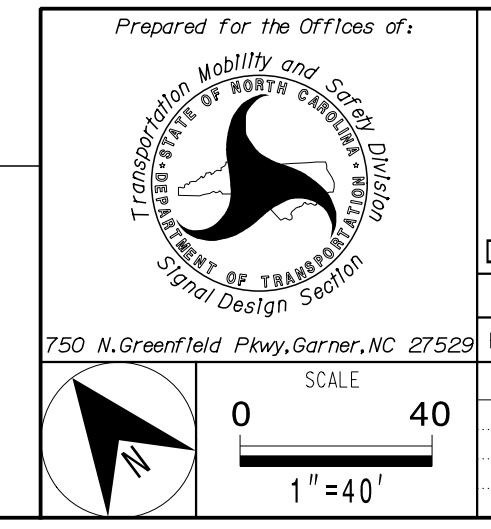
PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → N/A
○ → Pedestrian Signal Head With Push Button & Sign	○ → N/A
○ → Signal Pole with Guy	○ → N/A
○ → Signal Pole with Sidewalk Guy	○ → N/A
□ → Inductive Loop Detector	□ → N/A
□ → Controller & Cabinet	□ → N/A
□ → Junction Box	□ → N/A
□ → Oversized Junction Box	□ → N/A
□ → 2-in Underground Conduit	□ → N/A
N/A → Right of Way	--- → N/A
→ → Directional Arrow	→ → N/A
○ → Metal Strain Pole	○ → N/A
○ → "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	○ → N/A
--- → Directional Drill	--- → N/A
N/A → Guardrail	--- → N/A
○ → Metal Pole with Mastarm	○ → N/A
○ → "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	○ → N/A

**OASIS 2070 TIMING CHART**

FEATURE	PHASE				
	1	2	5	6	8
Min Green 1 *	7	12	7	12	7
Extension 1 *	2.0	6.0	2.0	6.0	2.0
Max Green 1 *	30	100	30	100	40
Yellow Clearance	3.0	4.6	3.0	4.6	3.0
Red Clearance	3.9	2.5	3.9	2.5	3.3
Red Revert	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	1.5	-
Max Variable Initial *	-	34	-	34	-
Time Before Reduction *	-	15	-	15	-
Time To Reduce *	-	45	-	45	-
Minimum Gap	-	3.0	-	3.0	-
Recall Mode	-	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	YELLOW	-
Dual Entry	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	ON

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

**New Installation**



**US 70 Business - NC 42 at Food Lion Driveway**

Division 4 Johnston County Clayton

PLAN DATE: August 2017 REVIEWED BY: BL Johnson

PREPARED BY: J. Kopaskie REVIEWED BY:

REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

029669

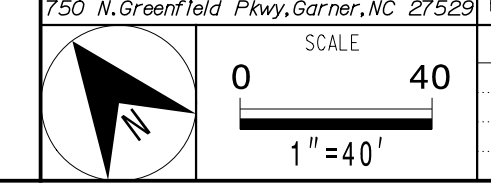
JOSEPH B. KOPASKIE

DocuSigned by: Joseph Kopaskie 10/3/2017

SIG. INVENTORY NO. 04-1428

**SEPI** ENGINEERING & CONSTRUCTION

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9/19/2017 3:40:17 PM ET 075.00 W-5704A&B-TP-Tr-01.dwg (S:\04\1428\01.dwg) J. Kopaskie