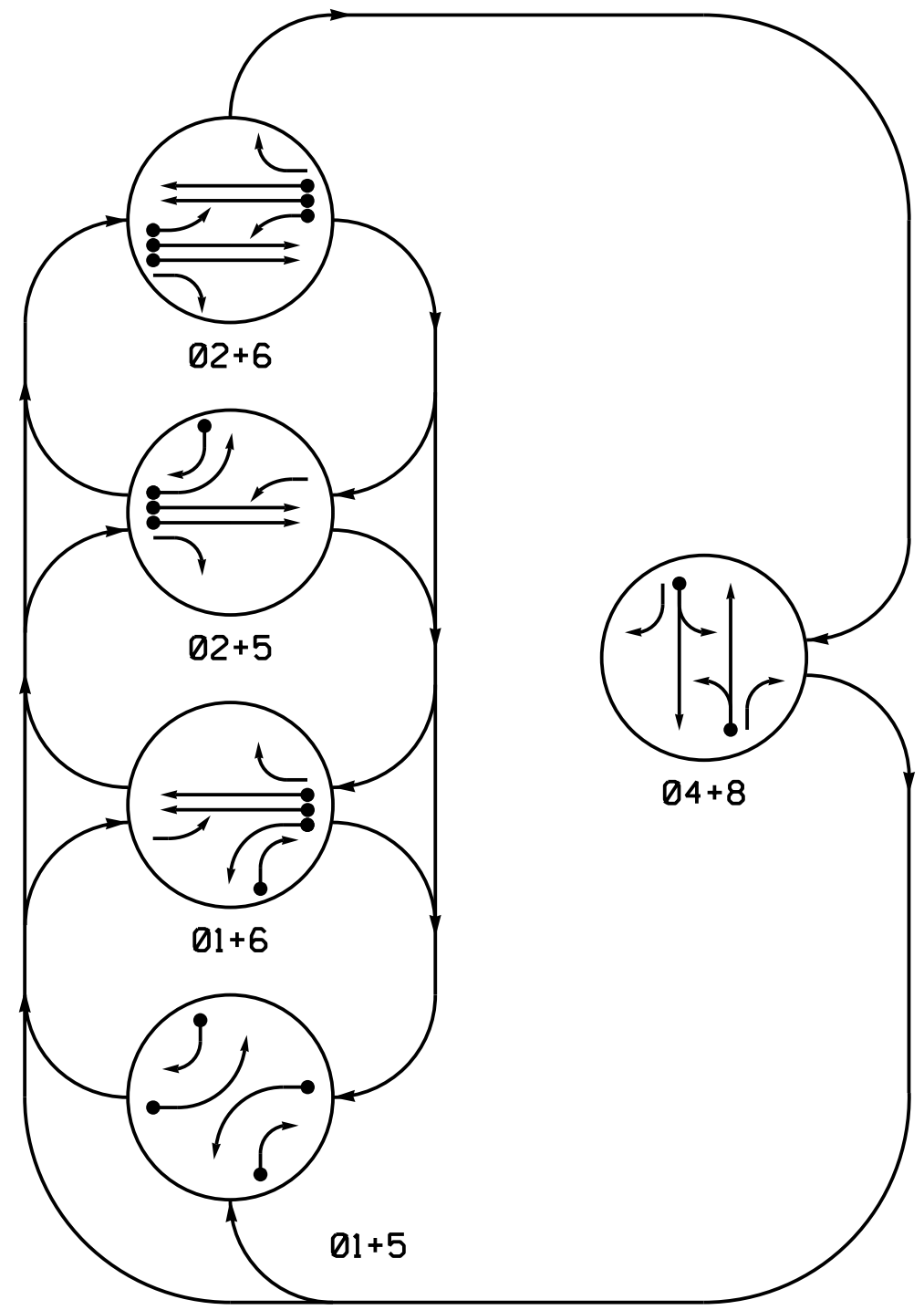
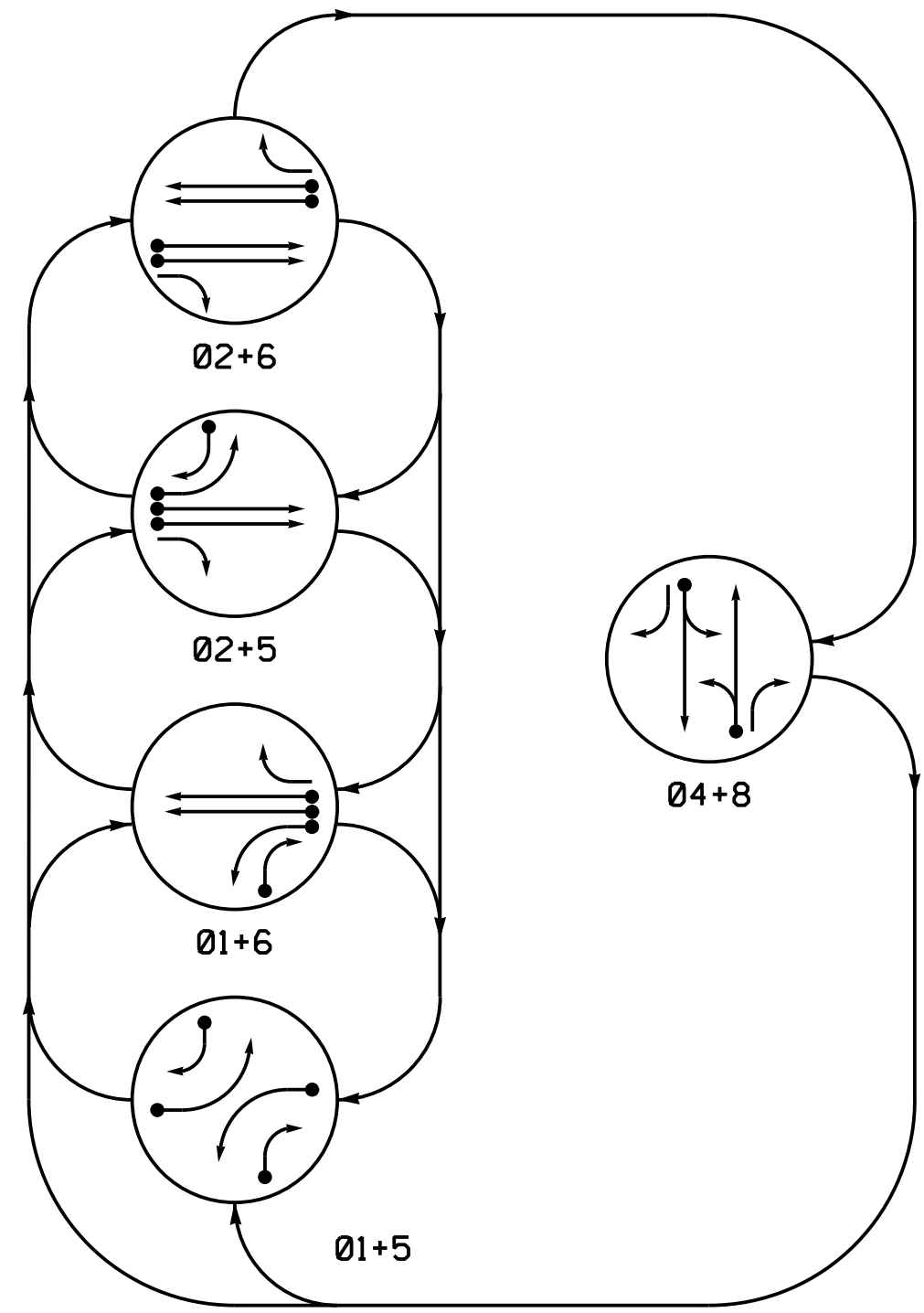


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FLASH
11	---	---	F	F	R	Y
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
43	F	F	R	F	F	R
51	---	---	F	F	R	Y
61,62	R	G	R	G	R	Y
81,82	R	R	R	R	G	R
83	F	F	R	R	F	R

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FLASH
11	---	---	R	R	R	Y
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
43	F	F	R	F	F	R
51	---	---	R	R	R	Y
61,62	R	G	R	G	R	Y
81,82	R	R	R	R	G	R
83	F	F	R	R	F	R

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					LOOP SYSTEM	NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME		
1A	6X40	0	*	*	1	Y	Y	-	-	***10	-
					**6	Y	Y	-	-	3	-
1B	6X40	0	*	*	1	Y	Y	-	-	15	-
2A	6X6	300	*	*	2	Y	Y	-	-	-	-
2B	6X6	300	*	*	2	Y	Y	-	-	-	-
4A	6X40	0	*	*	4	Y	Y	-	-	-	-
5A	6X40	0	*	*	5	Y	Y	-	-	***10	-
					**2	Y	Y	-	-	3	-
5B	6X40	0	*	*	5	Y	Y	-	-	15	-
6A	6X6	300	*	*	6	Y	Y	-	-	-	-
6B	6X6	300	*	*	6	Y	Y	-	-	-	-
8A	6X40	0	*	*	8	Y	Y	-	-	-	-

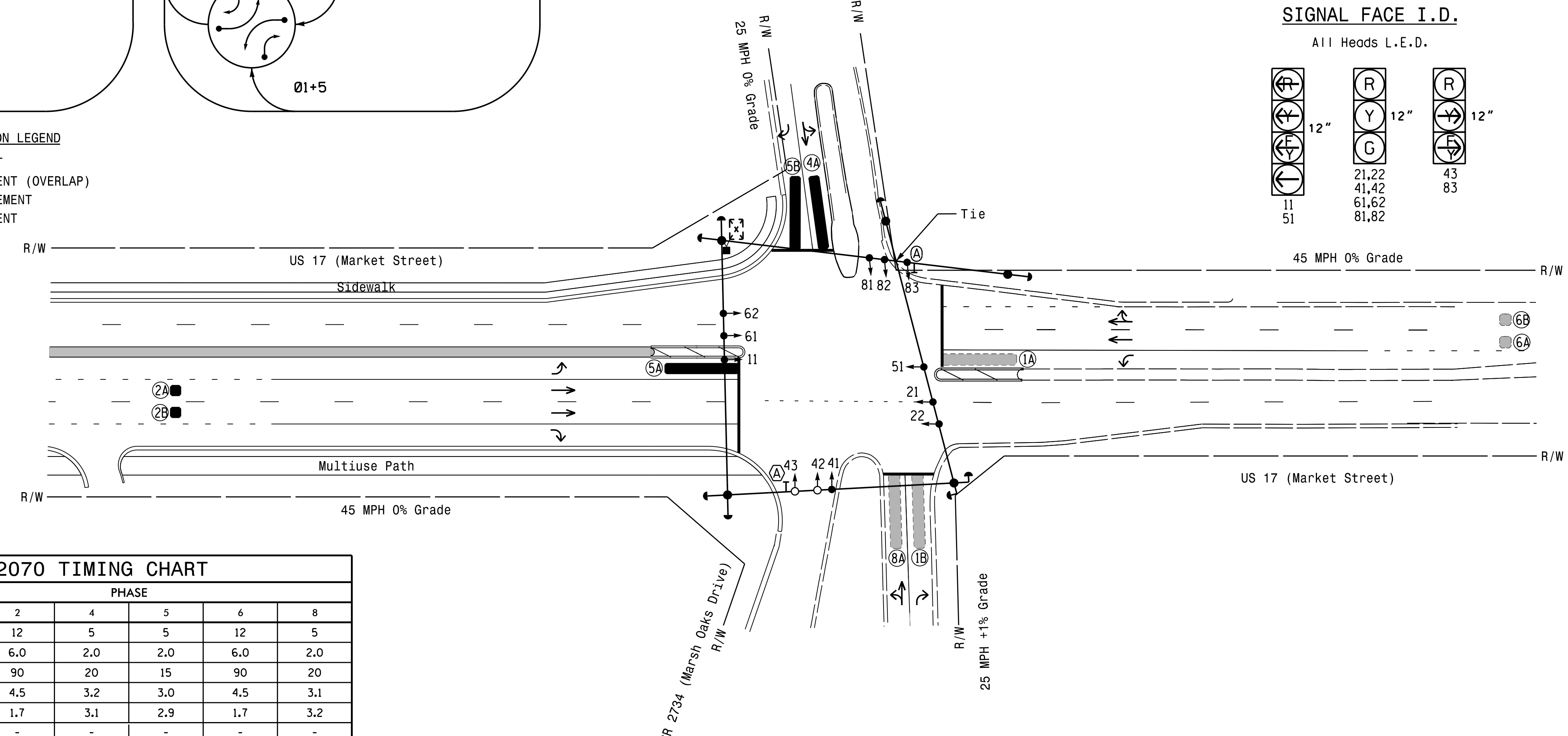
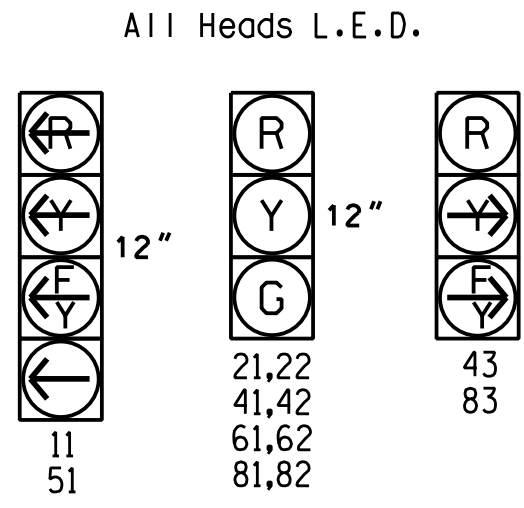
\* Multizone Microwave Detection  
 \*\* Disable phase 2 or 6 call for loops 1A and 5A during alternate phasing operation.  
 \*\*\* Reduce delay to 3 seconds during alternate phasing operation.

5 Phase Fully Actuated Wilmington Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or 5 may be lagged.
- Set all detector units to presence mode.
- Reposition existing signal head numbered 41.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Incorporate Microwave Detection system for vehicle detection.
- Provide the Engineer with the Manufacturer's approved Microwave Detection locations and mounting heights to obtain detection zones as shown.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Signal system data: Controller Asset #1027

SIGNAL FACE I.D.



OASIS 2070 TIMING CHART

FEATURE	PHASE						
	1	2	4	5	6	8	
Min Green 1 *	5	12	5	5	12	5	
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0	
Max Green 1 *	15	90	20	15	90	20	
Yellow Clearance	3.0	4.5	3.2	3.0	4.5	3.1	
Red Clearance	2.8	1.7	3.1	2.9	1.7	3.2	
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 *	-	30	-	-	30	-	
Minimum Gap	-	3.0	-	-	3.0	-	
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-	
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-	
Dual Entry	-	-	ON	-	-	ON	
Simultaneous Gap	ON	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.

LEGEND

- | PROPOSED   | EXISTING                                   |
|--|--|
| ○ → Traffic Signal Head                            | ● → Traffic Signal Head                    |
| ○ → Modified Signal Head                           | N/A  |
| ○ → Pedestrian Signal Head With Push Button & Sign | N/A  |
| ○ → Signal Pole with Guy                           | ○ → Signal Pole with Guy                   |
| ○ → Signal Pole with Sidewalk Guy                  | ○ → Signal Pole with Sidewalk Guy          |
| □ → Inductive Loop Detector                        | □ → Inductive Loop Detector                |
| □ → Controller & Cabinet                           | □ → Controller & Cabinet                   |
| □ → Junction Box                                   | □ → Junction Box                           |
| --- 2-in Underground Conduit                       | --- 2-in Underground Conduit               |
| N/A → Right of Way                                 | N/A → Right of Way                         |
| → → Directional Arrow                              | → → Directional Arrow                      |
| --- DD --- → Directional Drill                     | N/A  |
| ■ → Microwave Detection Zone                       | ■ → Microwave Detection Zone               |
| ■ → Construction Zone                              | N/A  |
| Ⓐ → "RIGHT TURN MUST YIELD TO U-TURN" Sign         | Ⓐ → "RIGHT TURN MUST YIELD TO U-TURN" Sign |

Signal Upgrade  
 Temporary Design 3  
 Construction Phase III

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

<p>HNTB NORTH CAROLINA, P.C.                  343 E. Six Forks Road, Suite 200                  Raleigh, North Carolina 27609                  NC License No: C-1554                  (919) 546-8997</p>	US 17 (Market Street) at SR 2734 (Marsh Oaks Drive) / SR 2290 (Mendenhall Drive) Division 03 New Hanover Co. Wilmington PLAN DATE: February 2018 REVIEWED BY: A.D. Klinskiak PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons	SEAL  N. R. Simmons ENGINEER 031464 8/1/2018
	SCALE 0 40 1" = 40'	REVISIONS INITI. DATE _____ _____ _____ _____