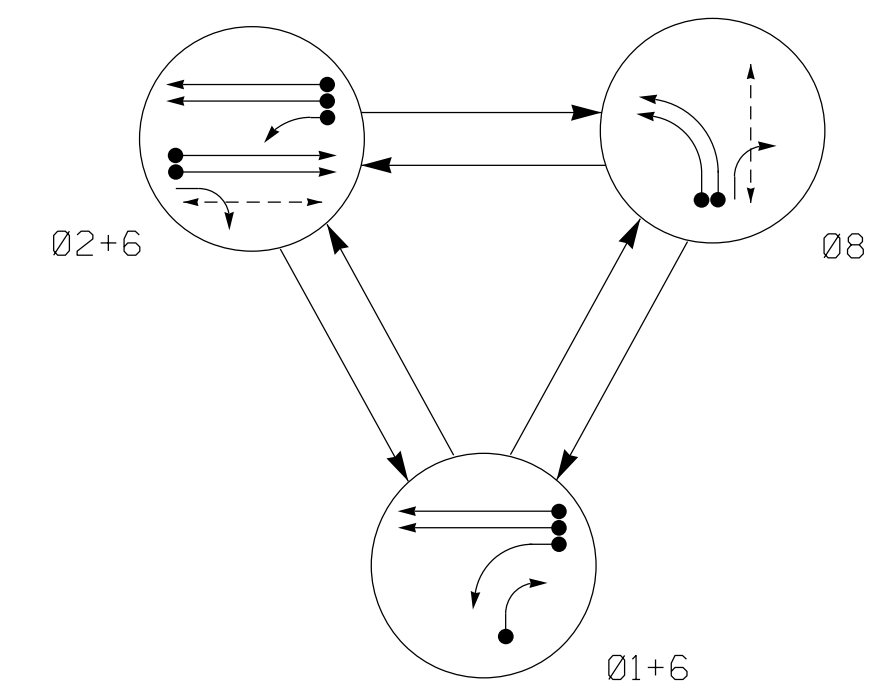


PHASING DIAGRAM



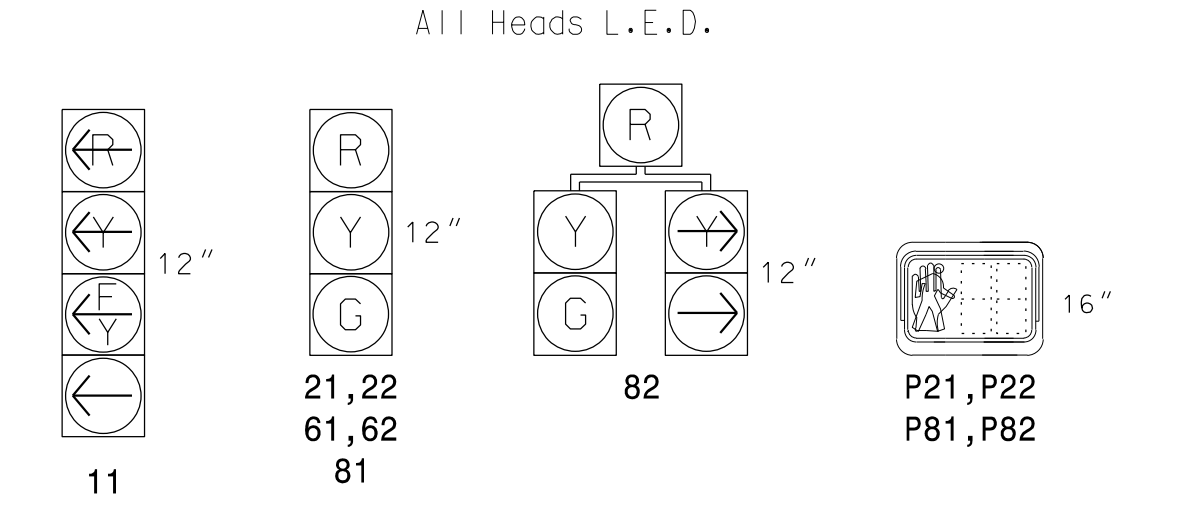
PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- ⋯ UNSIGNALIZED MOVEMENT
- ⇄ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	Ø 1+6	Ø 2+6	Ø 8	FLASH
11	Y	R	R	Y
21, 22	R	G	R	Y
61, 62	G	G	R	Y
81	R	R	G	R
82	R	R	G	R
P21,P22	DW	W	DW	DRK
P81,P82	DW	DW	W	DRK

SIGNAL FACE I.D.



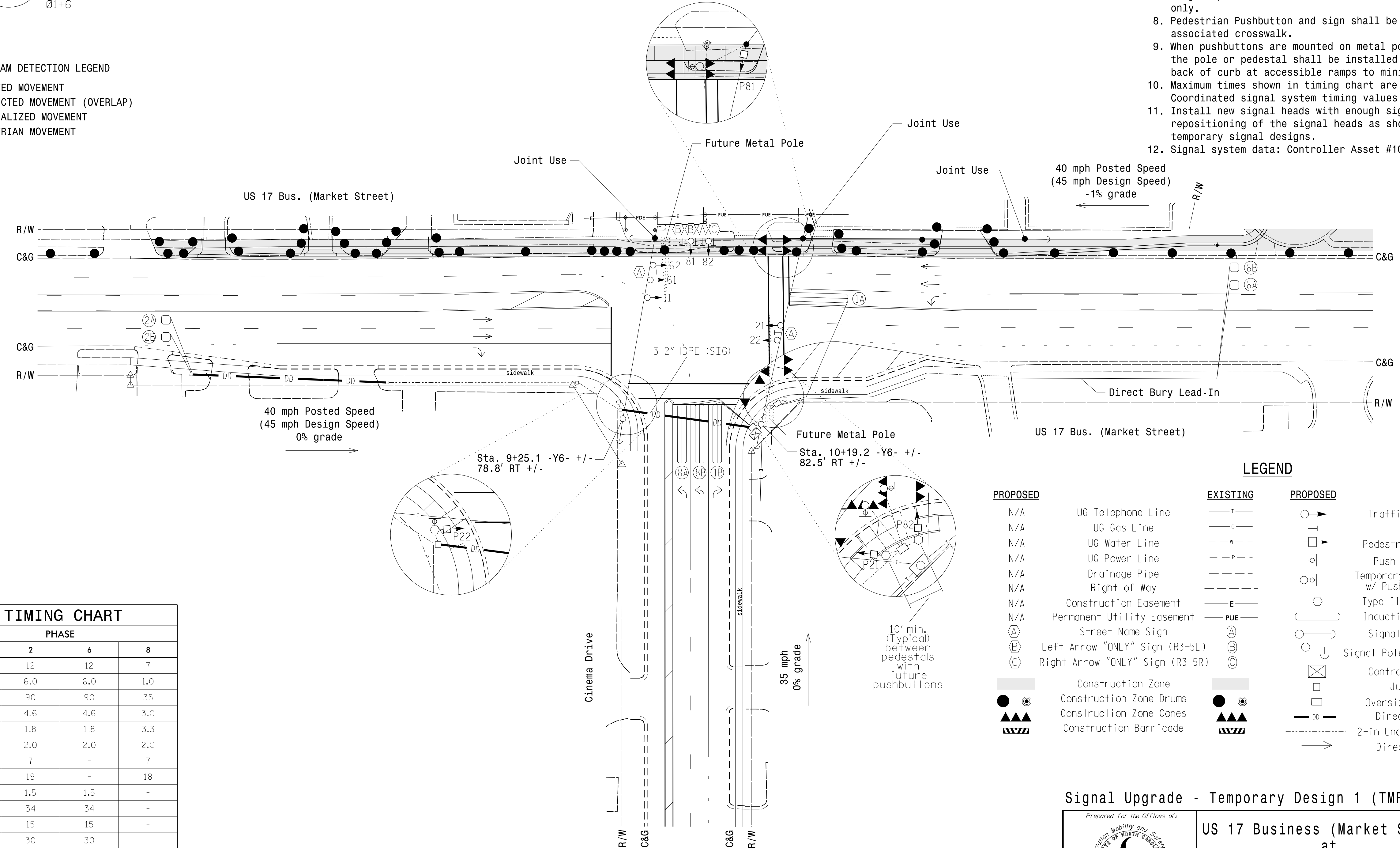
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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

3 Phase Fully Actuated (Wilmington Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 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. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. Pedestrian Pushbutton and sign shall be mounted parallel with associated crosswalk.
9. When pushbuttons are mounted on metal pole or pedestrian pedestal, the pole or pedestal shall be installed as close as possible to the back of curb at accessible ramps to minimize reach range.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Install new signal heads with enough signal cable to allow for the repositioning of the signal heads as shown in the subsequent temporary signal designs.
12. Signal system data: Controller Asset #1080.



OASIS 2070 TIMING CHART

FEATURE	PHASE			
	1	2	6	8
Min Green 1 *	7	12	12	7
Extension 1 *	1.0	6.0	6.0	1.0
Max Green 1 *	20	90	90	35
Yellow Clearance	3.0	4.6	4.6	3.0
Red Clearance	3.4	1.8	1.8	3.3
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	7	-	7
Don't Walk 1	-	19	-	18
Seconds Per Actuation *	-	1.5	1.5	-
Max Variable Initial *	-	34	34	-
Time Before Reduction *	-	15	15	-
Time To Reduce *	-	30	30	-
Minimum Gap	-	3.2	3.2	-
Recall Mode	-	SOFT RECALL	SOFT RECALL	-
Vehicle Call Memory	-	YELLOW	YELLOW	-
Dual Entry	-	-	-	-
Simultaneous Gap	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	PROPOSED	EXISTING
N/A UG Telephone Line	— T —	○ → Traffic Signal Head	● → Signal
N/A UG Gas Line	— G —	□ → Pedestrian Signal Head	— → Push Button & Sign
N/A UG Water Line	— W —	○ → Temporary Pedestrian Post w/ Push Button & Sign	● → Type II Signal Pedestal
N/A UG Power Line	— P —	○ → Inductive Loop Detector	— → Signal Pole with Guy
N/A Drainage Pipe	— D —	○ → Signal Pole with Sidewalk Guy	□ → Controller & Cabinet Junction Box
N/A Right of Way	— R —	□ → Oversize Junction Box	— → Directional Drill
N/A Construction Easement	— E —	— → 2-in Underground Conduit	→ → Directional Arrow
N/A Permanent Utility Easement	— PUE —		
(A) Street Name Sign	(A)		
(B) Left Arrow "ONLY" Sign (R3-5L)	(B)		
(C) Right Arrow "ONLY" Sign (R3-5R)	(C)		
Construction Zone	●		
Construction Zone Drums	●		
Construction Zone Cones	▲		
Construction Barricade	≡≡≡		

Signal Upgrade - Temporary Design 1 (TMP Phase II)

750 N. Greenfield Pkwy, Garner, NC 27529

US 17 Business (Market Street) at Cinema Drive

Division 03 New Hanover County Wilmington

PLAN DATE: June 2014 REVIEWED BY: MB Toth

PREPARED BY: AJ Davis REVIEWED BY: LM Moon

SEAL

MELISSA B. TOTH

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NGBEES #F-0326

Scale: 1"=40'

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