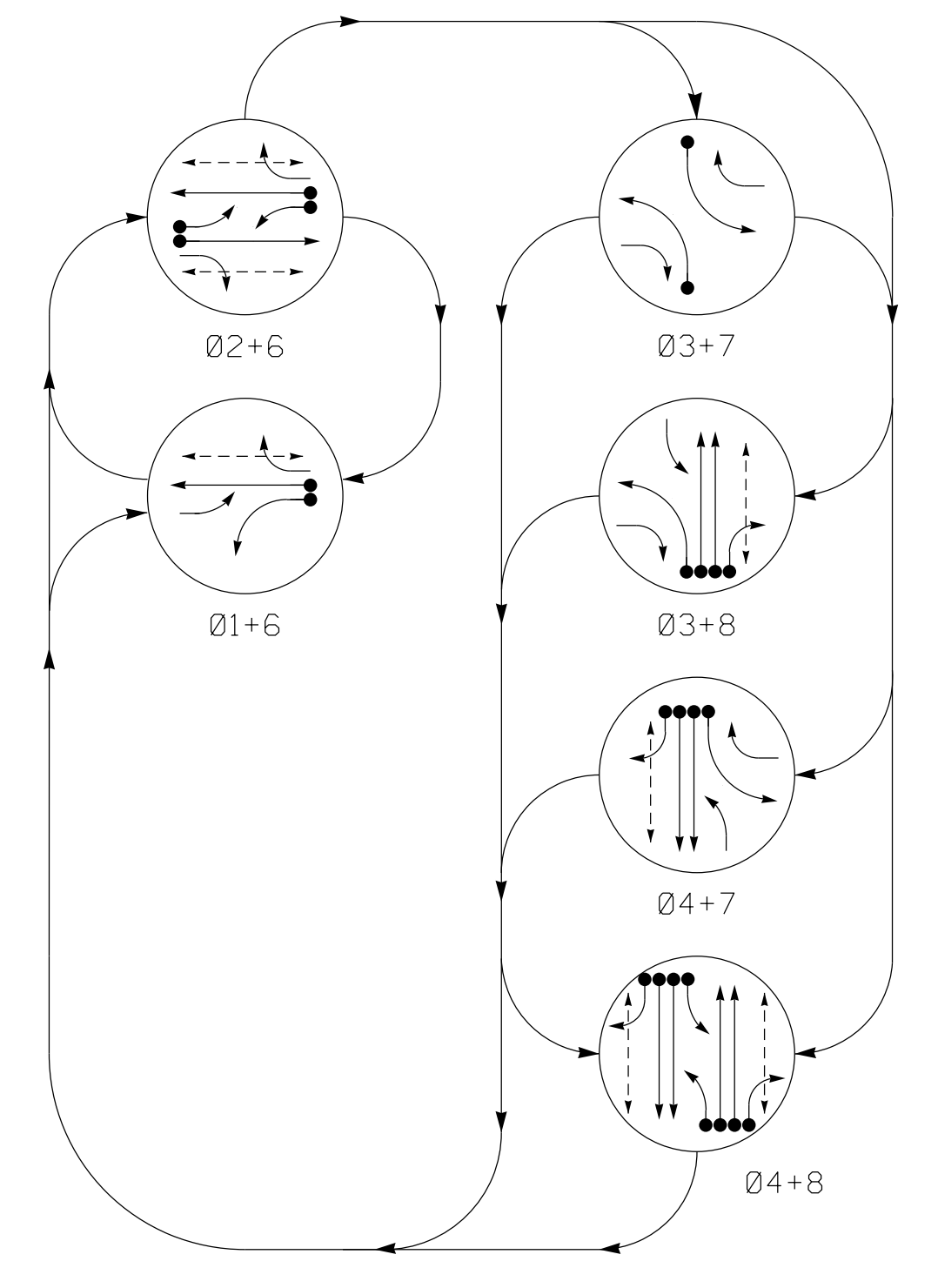


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

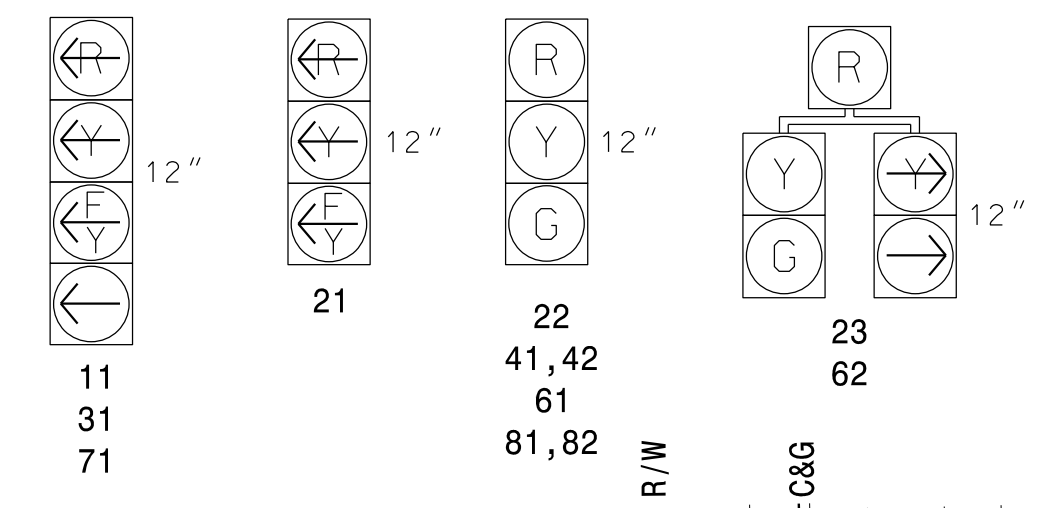
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- ⋯ UNSIGNALIZED MOVEMENT
- ⇄ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	Ø 1+6	Ø 2+6	Ø 3+7	Ø 3+8	Ø 4+7	Ø 4+8	FLASH	
11	←	←	←	←	←	←	←	←
21	←	←	←	←	←	←	←	←
22	R	G	R	R	R	R	R	Y
23	R	G	R	R	R	R	R	Y
31	R	R	←	←	←	←	←	←
41, 42	R	R	R	R	G	G	R	
61	G	G	R	R	R	R	Y	
62	G	G	R	R	R	R	Y	
71	R	R	←	←	←	←	←	
81, 82	R	R	R	G	R	G	R	
P21,P22	DW	W	DW	DW	DW	DW	DRK	
P41,P42	DW	DW	DW	DW	W	W	DRK	
P61,P62	W	W	DW	DW	DW	DW	DRK	
P81,P82	DW	DW	DW	W	DW	W	DRK	

SIGNAL FACE I.D.

All Heads L.E.D.



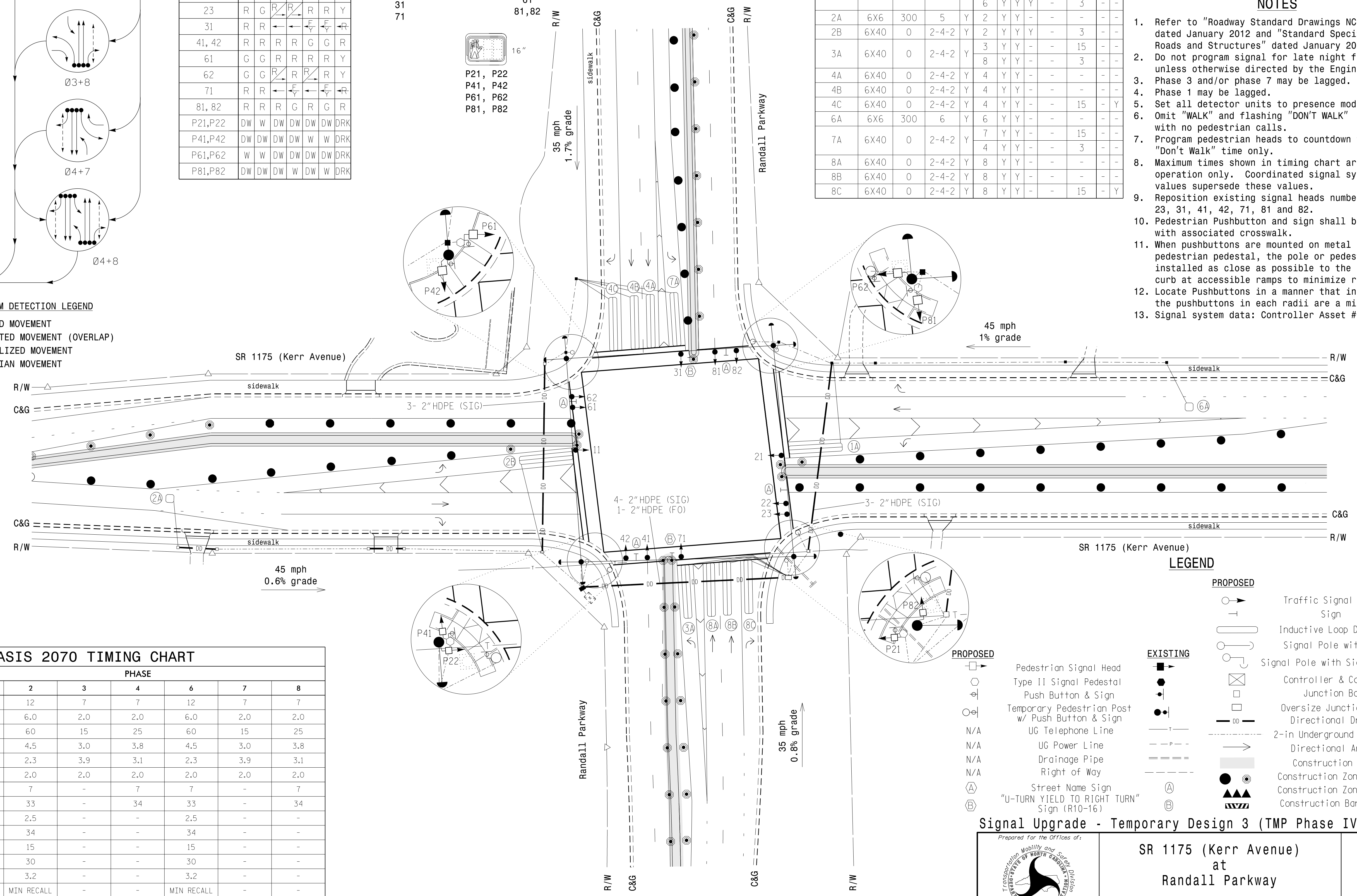
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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	-	-
2A	6X6	300	5	Y	2	Y	Y	-	-	-	-
2B	6X40	0	2-4-2	Y	2	Y	Y	-	3	-	-
3A	6X40	0	2-4-2	Y	3	Y	Y	-	15	-	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-
4C	6X40	0	2-4-2	Y	4	Y	Y	-	15	-	Y
6A	6X6	300	6	Y	6	Y	Y	-	-	-	-
7A	6X40	0	2-4-2	Y	7	Y	Y	-	15	-	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-
8B	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-
8C	6X40	0	2-4-2	Y	8	Y	Y	-	15	-	Y

6 Phase Fully Actuated (Wilmington Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "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 3 and/or phase 7 may be lagged.
- Phase 1 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian heads.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Reposition existing signal heads numbered 11, 21, 22, 23, 31, 41, 42, 71, 81 and 82.
- Pedestrian Pushbutton and sign shall be mounted parallel with associated crosswalk.
- 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.
- Locate Pushbuttons in a manner that in the final design the pushbuttons in each radii are a minimum of 10' apart.
- Signal system data: Controller Asset #0605.



OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	6	7	8	
Min Green 1 *	7	12	7	7	12	7	7	
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0	2.0	
Max Green 1 *	35	60	15	25	60	15	25	
Yellow Clearance	3.0	4.5	3.0	3.8	4.5	3.0	3.8	
Red Clearance	3.7	2.3	3.9	3.1	2.3	3.9	3.1	
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Walk 1 *	-	7	-	7	7	-	7	
Don't Walk 1	-	33	-	34	33	-	34	
Seconds Per Actuation *	-	2.5	-	-	2.5	-	-	
Max Variable Initial *	-	34	-	-	34	-	-	
Time Before Reduction *	-	15	-	-	15	-	-	
Time To Reduce *	-	30	-	-	30	-	-	
Minimum Gap	-	3.2	-	-	3.2	-	-	
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-	-	
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-	-	
Dual Entry	-	-	-	ON	-	-	ON	
Simultaneous Gap	ON	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 Traffic Signal Head | | EXISTING Traffic Signal Head |
| | PROPOSED Sign | | EXISTING Sign |
| | PROPOSED Inductive Loop Detector | | EXISTING Inductive Loop Detector |
| | PROPOSED Signal Pole with Guy | | EXISTING Signal Pole with Guy |
| | PROPOSED Signal Pole with Sidewalk Guy | | EXISTING Signal Pole with Sidewalk Guy |
| | PROPOSED Controller & Cabinet | | EXISTING Controller & Cabinet |
| | PROPOSED Junction Box | | EXISTING Junction Box |
| | PROPOSED Oversize Junction Box | | EXISTING Oversize Junction Box |
| | PROPOSED Directional Drill | | EXISTING Directional Drill |
| | PROPOSED 2-in Underground Conduit | | EXISTING 2-in Underground Conduit |
| | PROPOSED Directional Arrow | | EXISTING Directional Arrow |
| | PROPOSED Construction Zone | | EXISTING Construction Zone |
| | PROPOSED Construction Zone Drums | | EXISTING Construction Zone Drums |
| | PROPOSED Construction Zone Cones | | EXISTING Construction Zone Cones |
| | PROPOSED Construction Barricade | | EXISTING Construction Barricade |

Signal Upgrade - Temporary Design 3 (TMP Phase IV)

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

SR 1175 (Kerr Avenue) at Randall Parkway

Division 03 New Hanover County Wilmington

PLAN DATE: June 2014 REVIEWED BY: LM Moon

PREPARED BY: AM Thigpen REVIEWED BY: MB Toth

REVISIONS

SEAL

12/19/2014

DocuSigned by: Melissa B. Toth

SIG. INVENTORY NO. 03-060513