

PHASING DIAGRAM

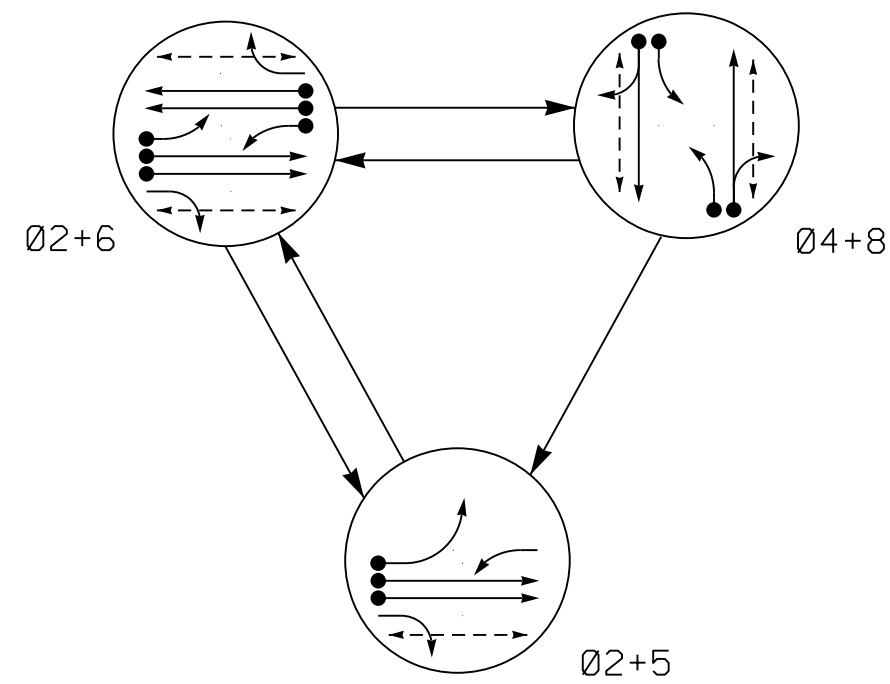
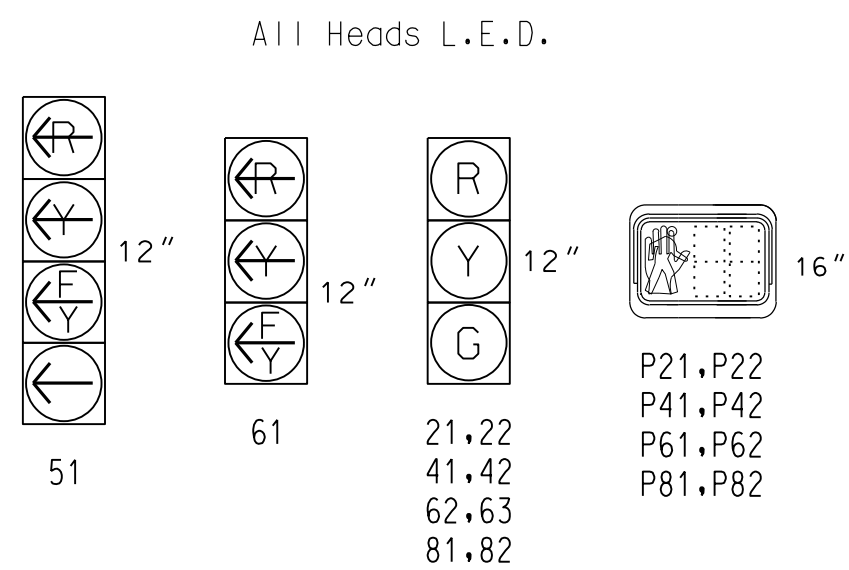


TABLE OF OPERATION

SIGNAL FACE	PHASE			
	02+5	02+6	04+8	F L S H
21,22	G	G	R	Y
41,42	R	R	G	R
51	F	F	R	Y
61	F	F	R	Y
62,63	R	G	R	Y
81,82	R	R	G	R
P21,P22	W	W	DW	DRK
P41,P42	DW	DW	W	DRK
P61,P62	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	FULL TIME DELAY			
2A	6X6	300	5	Y	2	Y	Y	-	-	-	Y
2B	6X6	300	5	Y	2	Y	Y	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	3	Y
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	15	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	Y
6A	6X6	300	5	Y	6	Y	Y	-	-	-	Y
6B	6X6	300	5	Y	6	Y	Y	-	-	-	Y
6C	6X40	0	2-4-2	Y	6	Y	Y	Y	-	3	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	3	Y
8B	6X40	0	2-4-2	Y	8	Y	Y	-	-	15	Y
S37	6X6	+180	5	Y	-	-	-	-	-	-	Y
S38	6X6	+180	5	Y	-	-	-	-	-	-	Y

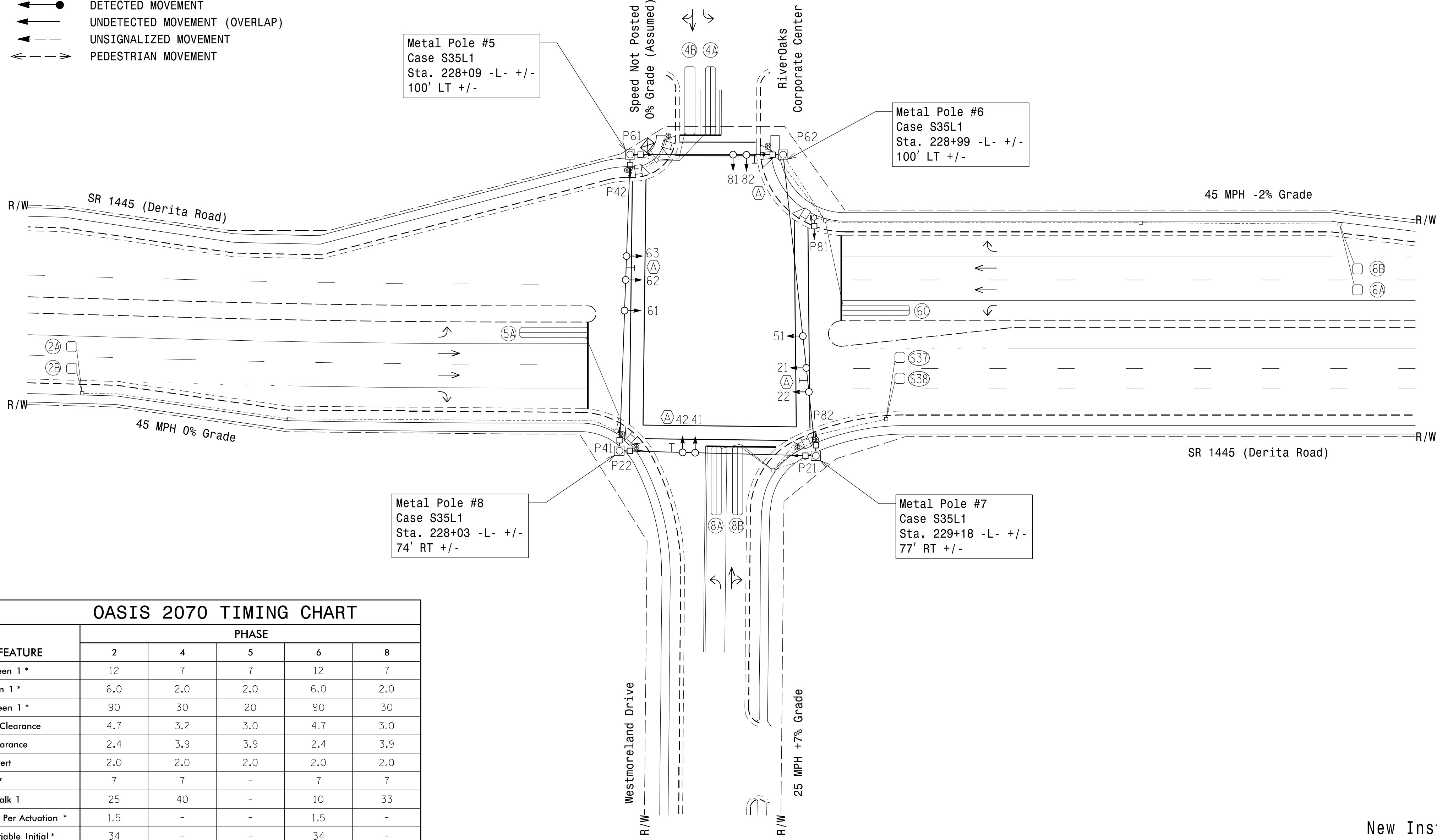
3-Phase Fully Actuated Concord City Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012, "Standard Specifications for Roads and Structures" dated January 2012, and all applicable sections of the latest version of the generic Project Special Provisions.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Install backplates for all signal heads.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
- All pedestrian pushbuttons shall be located in the field by the Division Traffic Engineer before installation.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset #2228.

PHASING DIAGRAM DETECTION LEGEND

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



OASIS 2070 TIMING CHART

FEATURE	PHASE				
	2	4	5	8	
Min Green 1 *	12	7	7	12	7
Extension 1 *	6.0	2.0	2.0	6.0	2.0
Max Green 1 *	90	30	20	90	30
Yellow Clearance	4.7	3.2	3.0	4.7	3.0
Red Clearance	2.4	3.9	3.9	2.4	3.9
Red Revert	2.0	2.0	2.0	2.0	2.0
Walk 1 *	7	7	-	7	7
Don't Walk 1	25	40	-	10	33
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

* 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 | ○ Pedestrian Signal Head |
| ○ Metal Strain Pole | ○ Metal Strain Pole |
| ○ 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 | --- Right of Way |
| → Directional Arrow | → Directional Arrow |
| ⊗ Type I Pushbutton Post | ⊗ Type I Pushbutton Post |
| ○ Type II Signal Pedestal | ○ Type II Signal Pedestal |
| + Pushbutton & Sign | + Pushbutton & Sign |
| T Sign | T Sign |
| ⊙ Street Name Sign (D3-1) | ⊙ Street Name Sign (D3-1) |

New Installation

Prepared in the Offices of:

AECOM
 NC Firm License No.: F-0342
 701 Corporate Center Drive
 Suite 475 Raleigh, NC 27607
 Phone: 919-854-6200

750 N. Greenfield Pkwy, Garner, NC 27529

SR 1445 (Derita Road) at Westmoreland Drive / RiverOaks Corporate Center
 Division 10 Cabarrus County Concord

PLAN DATE: March 2016 REVIEWED BY: C.L. Kalencik
 PREPARED BY: S.W. Cox REVIEWED BY:

REVISIONS: INIT. DATE

Seal: CORNELL UNIVERSITY PROFESSIONAL ENGINEER SEAL 040715
 CORNELL UNIVERSITY PROFESSIONAL ENGINEER SEAL 040715
 C. L. KALENCIK
 7/7/2016
 SIG. INVENTORY NO. 10-2228

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