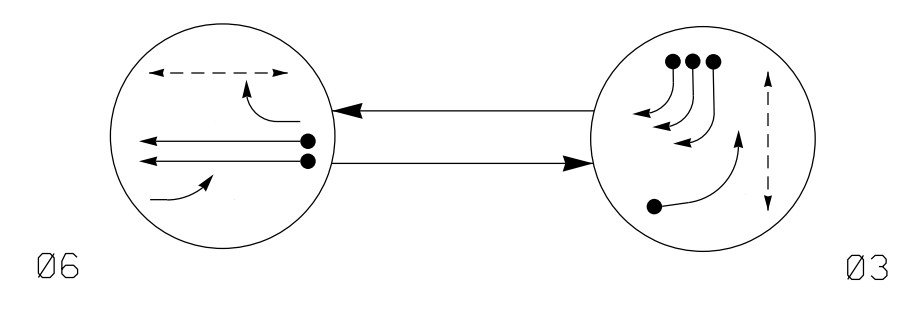
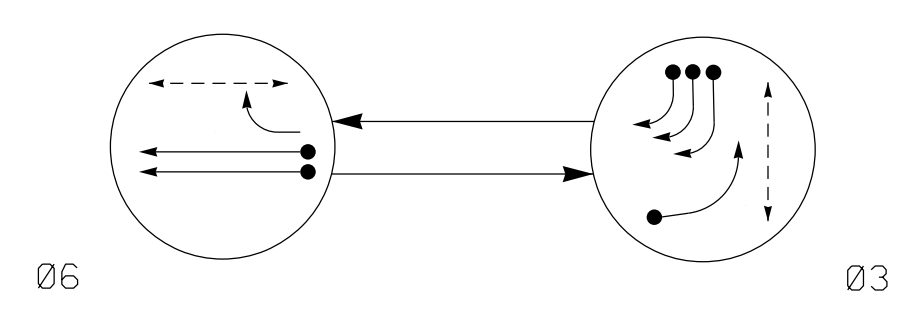


**DEFAULT PHASING DIAGRAM**



**ALTERNATE PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

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

**DEFAULT PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	06	03	F
31	Y	Y	Y
32, 33, 34	R	R	
61, 62	G	R	Y
P31, P32	DW	W	DRK
P61, P62	W	DW	DRK

**ALTERNATE PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	06	03	F
31	R	Y	Y
32, 33, 34	R	R	
61, 62	G	R	Y
P31, P32	DW	W	DRK
P61, P62	W	DW	DRK

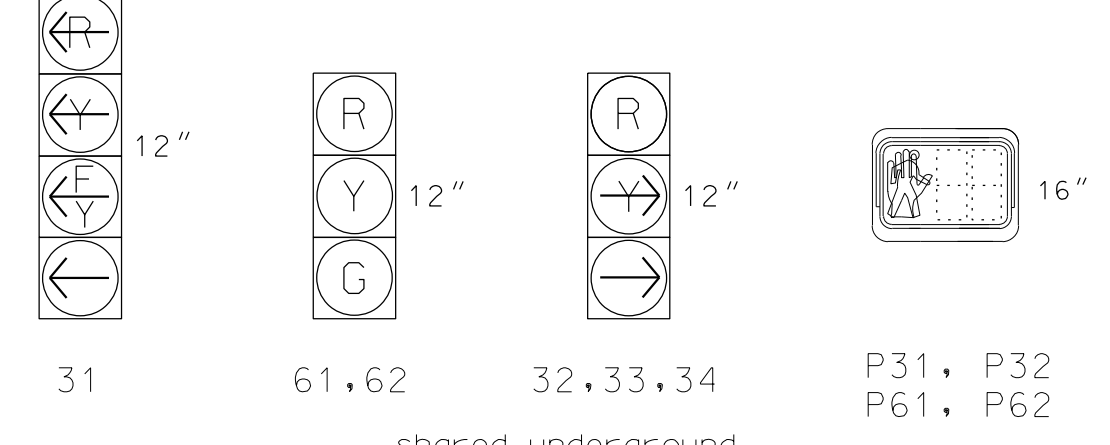
**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	STRETCH TIME			DELAY TIME
3A	6X40	0	2-4-2	Y	3	Y	Y	-	15*	-	Y
3B	6X40	0	2-4-2	Y	3	Y	Y	-	10	-	Y
3C	6X40	0	2-4-2	Y	3	Y	Y	-	10	-	Y
3D	6X40	0	2-4-2	Y	3	Y	Y	-	10	-	Y
6A/S12	6X6	420	5	Y	6	Y	Y	-	-	-	Y
6B/S13	6X6	420	5	Y	6	Y	Y	-	-	-	Y
S8	6X6	400	6	Y	-	-	-	-	-	-	Y
S9	6X6	240	4	Y	-	-	-	-	-	-	Y
S10	6X6	240	4	Y	-	-	-	-	-	-	Y
S11	6X6	240	4	Y	-	-	-	-	-	-	Y

\* Omit delay during Alternate Phasing Operation.

**SIGNAL FACE I.D.**

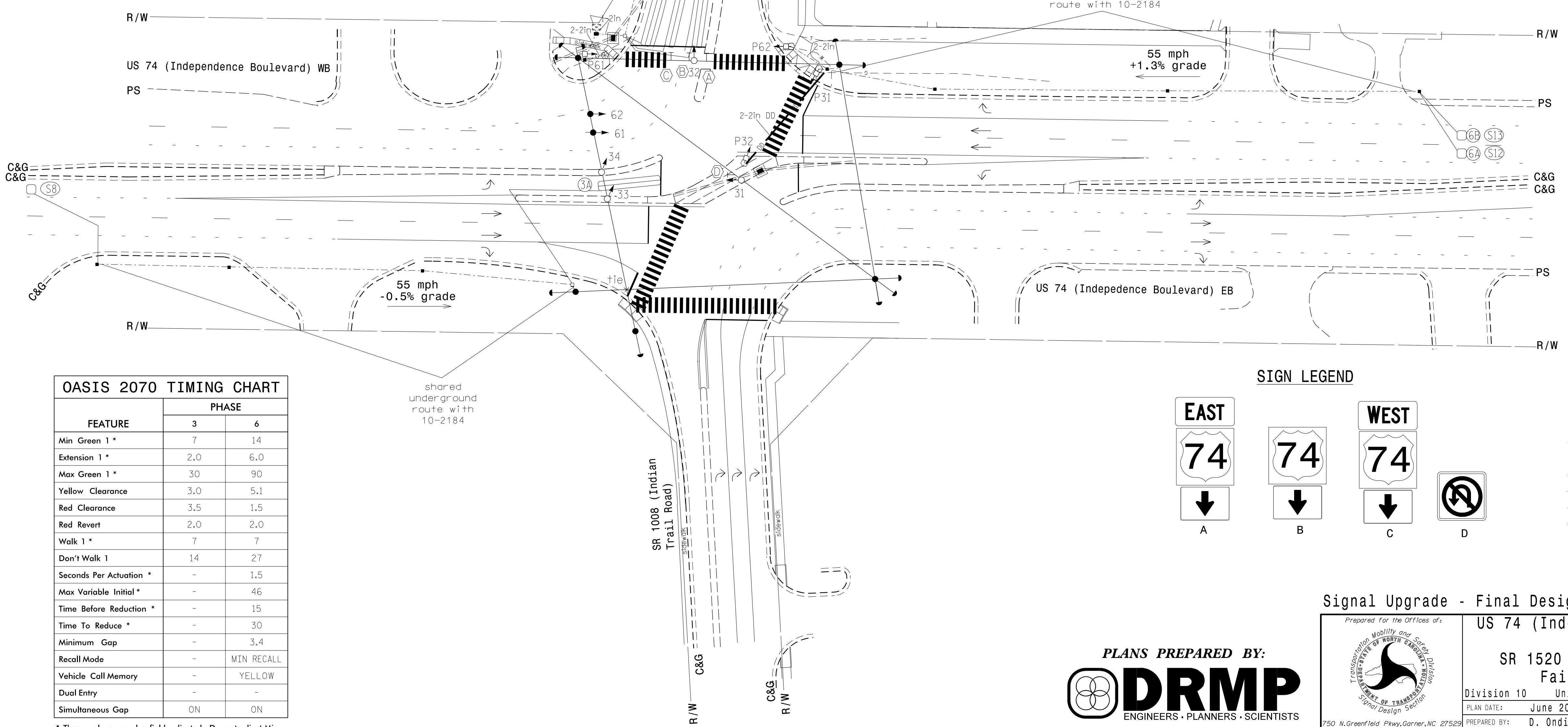
All Heads L.E.D.



**2 Phase Fully Actuated US 74 - Indian Trail CLS #1**

**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.
- Set all detector units to presence mode.
- 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.
- Pushbutton locations shall be located by the Division Traffic Engineer.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Tether signs A, B, and C. Install appropriate sign hardware and additional messenger cable.
- Coordinate construction with signal 10-2184 - shared poles, spans, pullboxes and conduit runs.
- Closed loop system data: Controller Asset #2183.

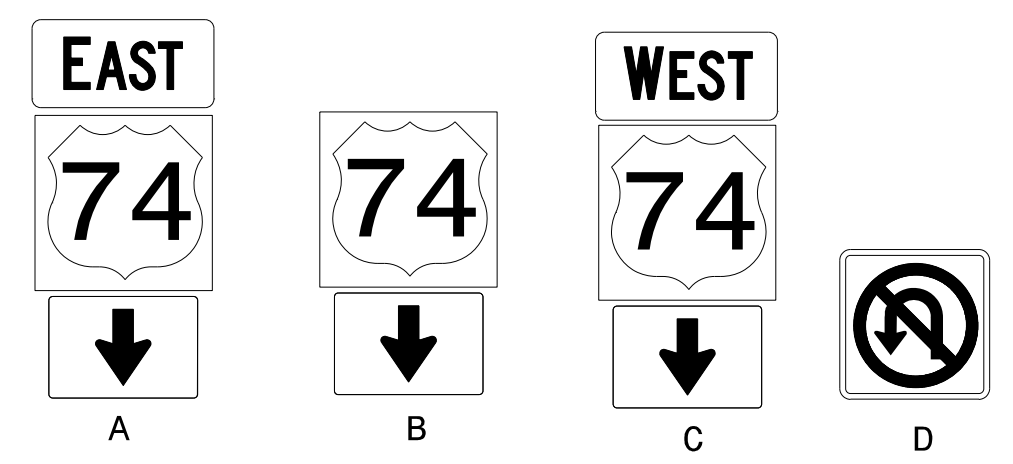


**OASIS 2070 TIMING CHART**

FEATURE	PHASE	
	3	6
Min Green 1 *	7	14
Extension 1 *	2.0	6.0
Max Green 1 *	30	90
Yellow Clearance	3.0	5.1
Red Clearance	3.5	1.5
Red Revert	2.0	2.0
Walk 1 *	7	7
Don't Walk 1	14	27
Seconds Per Actuation *	-	1.5
Max Variable Initial *	-	46
Time Before Reduction *	-	15
Time To Reduce *	-	30
Minimum Gap	-	3.4
Recall Mode	-	MIN RECALL
Vehicle Call Memory	-	YELLOW
Dual Entry	-	-
Simultaneous Gap	ON	ON

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

**SIGN LEGEND**



**LEGEND**

- | PROPOSED   | EXISTING            |
|--|---------------------|
| ○ → Traffic Signal Head                            | ● → N/A             |
| ● → Modified Signal Head                           | ○ → N/A             |
| ○ → Pedestrian Signal Head                         | ○ → N/A             |
| ○ → Pedestrian Signal Head With Push Button & Sign | ○ → N/A             |
| ○ → Type I Pushbutton Post                         | ○ → N/A             |
| ○ → Type II Signal Pedestal                        | ○ → 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             |
| ○ → Right of Way                                   | ○ → N/A             |
| ○ → Underground Water Line                         | ○ → N/A             |
| ○ → Overhead Power Line                            | ○ → N/A             |
| ○ → Underground Telephone Cable                    | ○ → N/A             |
| ○ → Underground Gas Line                           | ○ → N/A             |
| ○ → Directional Arrow                              | ○ → N/A             |
| ○ → See Sign Legend                                | ○ → See Sign Legend |

**Signal Upgrade - Final Design**

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

**PLANS PREPARED BY:**  
  
**DRMP**  
 ENGINEERS • PLANNERS • SCIENTISTS

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Prepared for the Offices of:  
  
 TRANSPORTATION MOBILITY AND SAFETY DIVISION  
 STATE OF NORTH CAROLINA  
 Signal Design Section  
 750 N. Greenfield Pkwy, Garner, NC 27529

**US 74 (Independence Blvd) WB at SR 1520 (Indian Trail - Fairview Road)**

Division 10 Union County Indian Trail

PLAN DATE: June 2015 REVIEWED BY: L Moon

PREPARED BY: D. Ondieki REVIEWED BY: J Beck

REVISIONS: INIT. DATE

SEAL

Lisa M. Moon 11/11/2016

DATE

SIG. INVENTORY NO. 10-2183

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