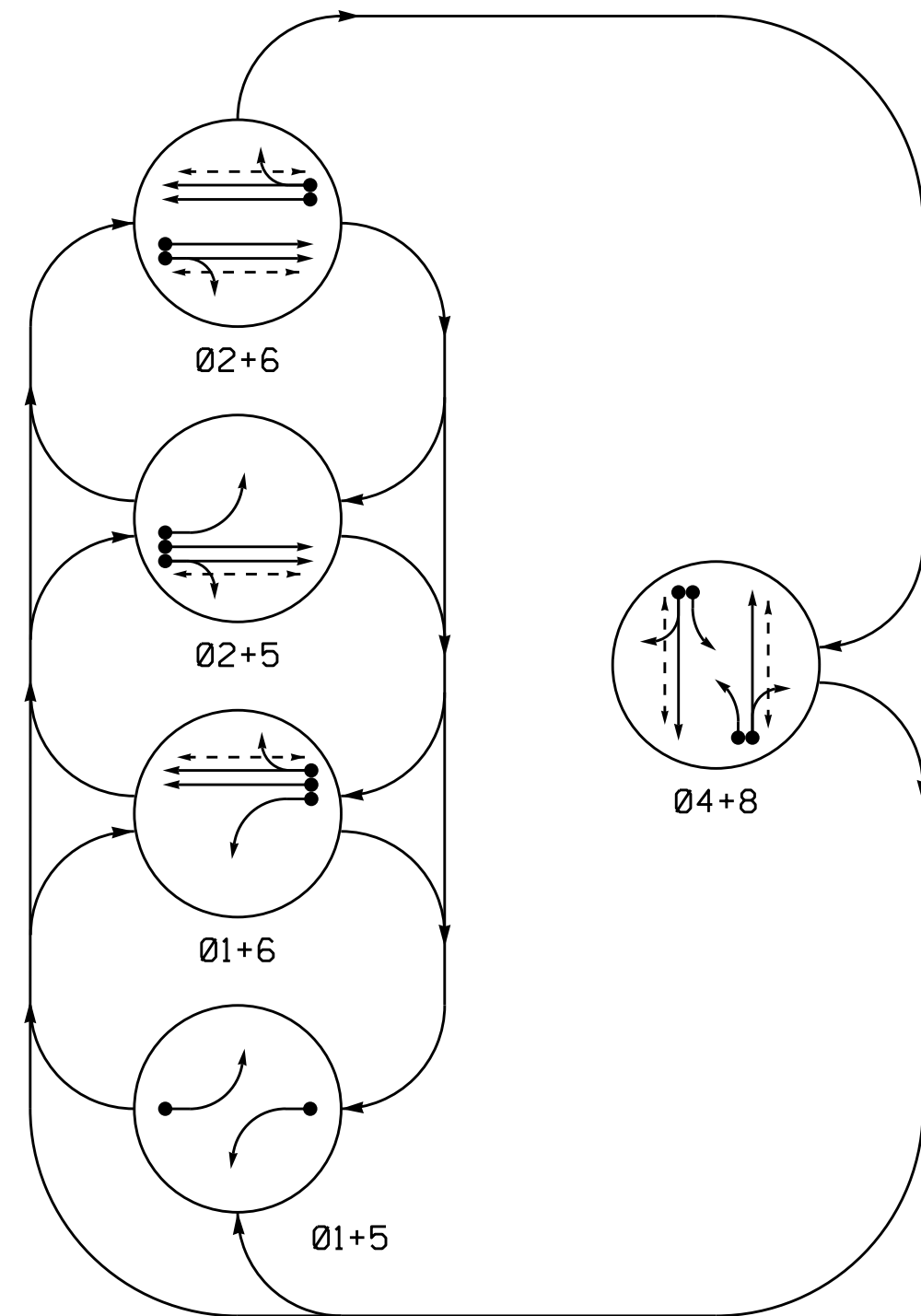


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

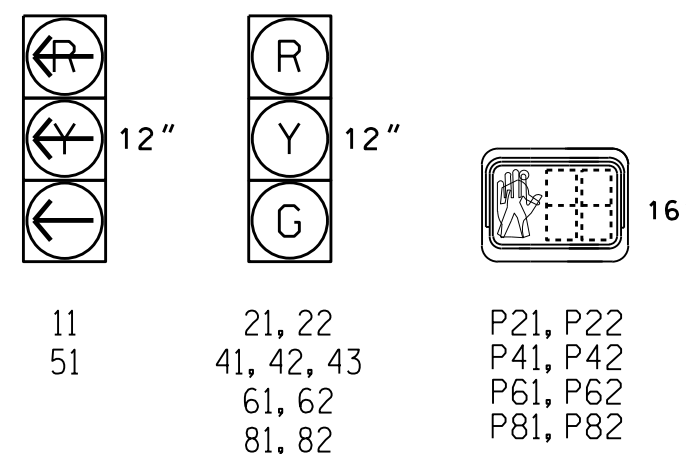
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	F L GROUP
11	←	←	→	→	→	→
21, 22	R	R	G	G	R	Y
41, 42, 43	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DRK
P81, P82	DW	DW	DW	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	FULL TIME DELAY			
1A	6X40	+5	2-4-2	-	1	Y	Y	-	3	-	Y
2A,2B	6X6	70	EXIST	-	2	Y	Y	-	-	-	Y
4A	6X40	+5	2-4-2	-	4	Y	Y	-	3	-	Y
4B	6X40	+5	2-4-2	-	4	Y	Y	-	10	-	Y
5A	6X40	+5	2-4-2	-	5	Y	Y	-	3	-	Y
6A,6B	6X6	70	EXIST	-	6	Y	Y	-	-	-	Y
8A	6X40	+5	2-4-2	-	8	Y	Y	-	3	-	Y
8B	6X40	+5	2-4-2	-	8	Y	Y	-	10	-	Y

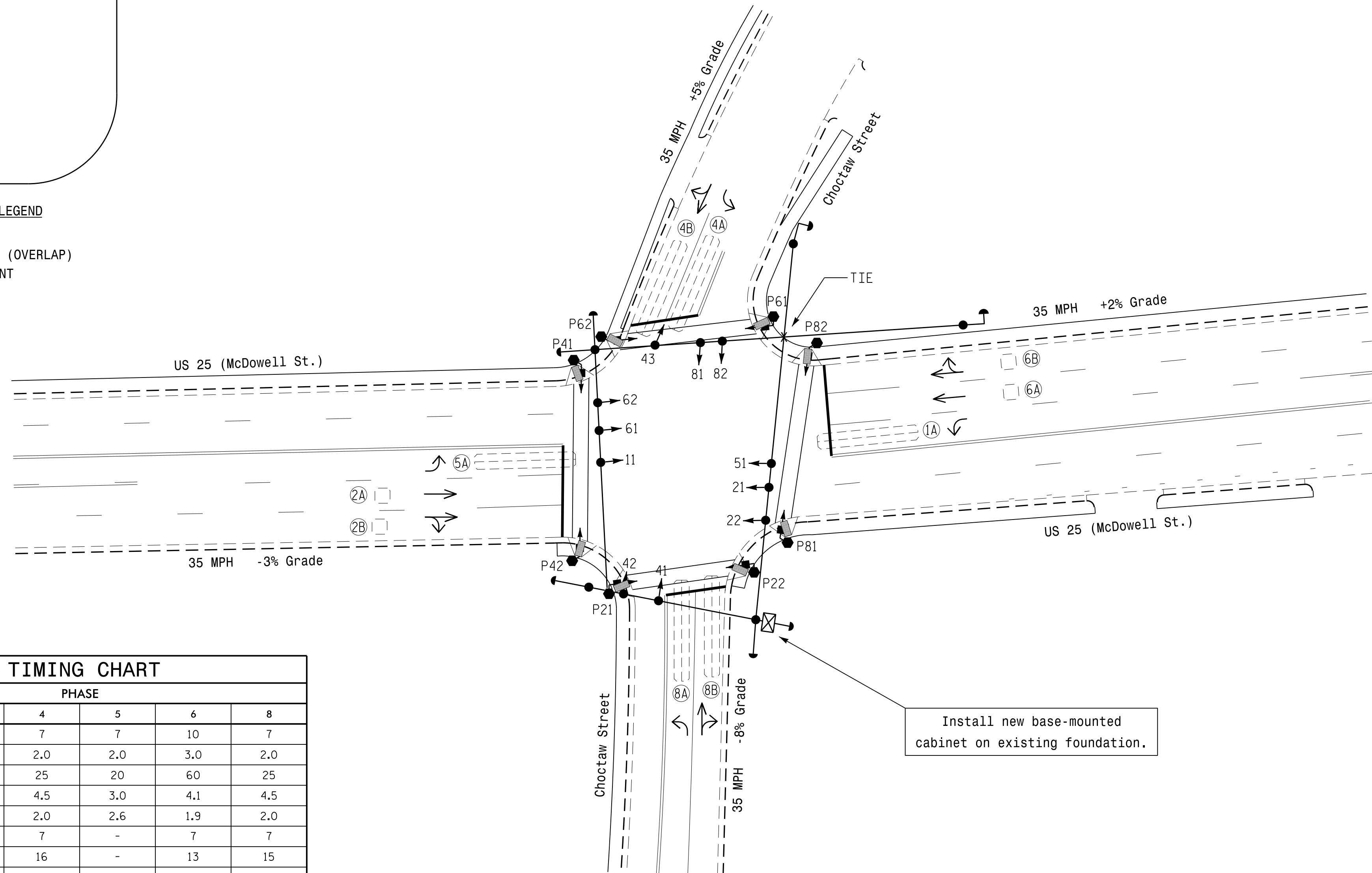
5 Phase Fully Actuated Asheville Signal System

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 1 and/or phase 5 may be lagged.
- 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.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

- | | | | | |
|--|-----------------|------------------------------------------------|--|-----------------|
| | PROPOSED | Traffic Signal Head | | EXISTING |
| | | Modified Signal Head | | N/A |
| | | Sign | | |
| | | Pedestrian Signal Head With Push Button & Sign | | |
| | | Signal Pole with Guy | | |
| | | Signal Pole with Sidewalk Guy | | |
| | | Inductive Loop Detector | | |
| | | Controller & Cabinet | | |
| | | Junction Box | | |
| | | 2-in Underground Conduit | | |
| | N/A | Right of Way | | |
| | | Directional Arrow | | |
| | | Type II Signal Pedestal | | |
| | N/A | Curb Ramp | | |



OASIS 2070 TIMING CHART

FEATURE	PHASE						
	1	2	4	5	6	8	
Min Green 1 *	7	10	7	7	10	7	
Extension 1 *	2.0	3.0	2.0	2.0	3.0	2.0	
Max Green 1 *	25	60	25	20	60	25	
Yellow Clearance	3.0	4.1	4.5	3.0	4.1	4.5	
Red Clearance	3.1	1.9	2.0	2.6	1.9	2.0	
Walk 1 *	-	7	7	-	7	7	
Don't Walk 1	-	9	16	-	13	15	
Seconds Per Actuation *	-	-	-	-	-	-	
Max Variable Initial *	-	-	-	-	-	-	
Time Before Reduction *	-	-	-	-	-	-	
Time To Reduce *	-	-	-	-	-	-	
Minimum Gap	-	-	-	-	-	-	
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.

Signal Upgrade

Prepared for the Offices of:

US 25 (McDowell Street) at Choctaw Street
 Division 13 Buncombe County Asheville
 PLAN DATE: January 2016 REVIEWED BY: P.L. Alexander
 PREPARED BY: R.N. Zinser REVIEWED BY:
 SCALE 1"=30'
 REVISIONS: _____ INIT: _____ DATE: _____
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
 SEAL

 Richard N. Zinser 8/9/2016
 SIG. INVENTORY NO. 13-0245