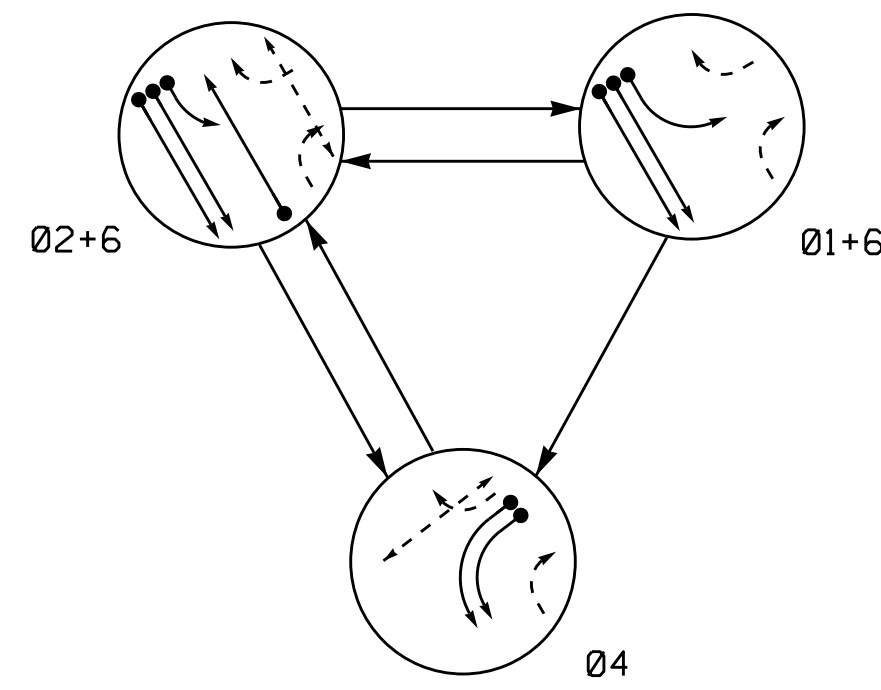


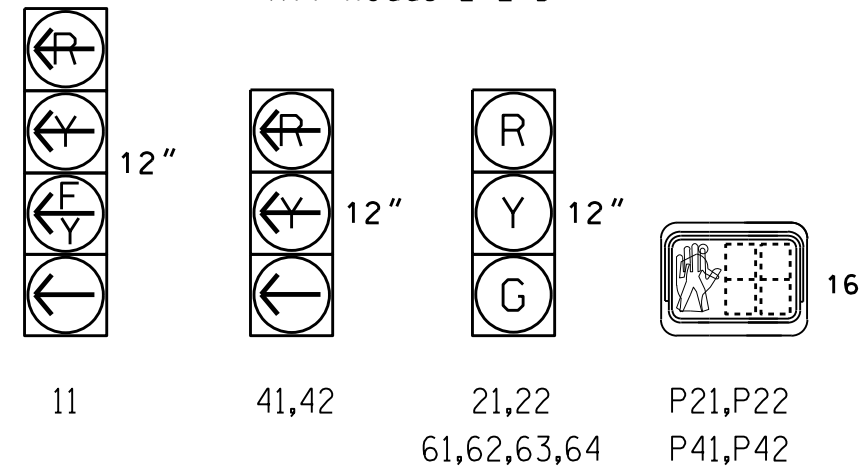
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	02+6	01+6	04	FL
11	Y	Y	Y	Y
21,22	G	R	R	Y
41,42	RR	RR	RR	Y
61,62,63,64	G	G	R	Y
P21,P22	W	DW	DW	DRK
P41,P42	DW	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



PHASING DIAGRAM DETECTION LEGEND

- ● → DETECTED MOVEMENT
- ○ → UNDETECTED MOVEMENT (OVERLAP)
- ○ → UNSIGNALIZED MOVEMENT
- ○ → PEDESTRIAN MOVEMENT

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	+10	2-4-2	-	1	Y	Y	-	-	15	-	Y
2A	6X40	0	2-4-2	-	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	Y
4B	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	Y
4C	6X25	0	2-4-2	-	4	Y	Y	Y	-	-	-	Y
6A	6X40	0	2-4-2	-	6	Y	Y	-	-	-	-	Y
6B	6X40	0	2-4-2	-	6	Y	Y	-	-	-	-	Y
S1	6X6	300	EXIST	-	-	-	-	-	-	-	Y	Y
S2	6X6	300	EXIST	-	-	-	-	-	-	-	Y	Y
S3	6X6	300	EXIST	-	-	-	-	-	-	-	Y	Y

3 Phase Fully Actuated Asheville Signal System

NOTES

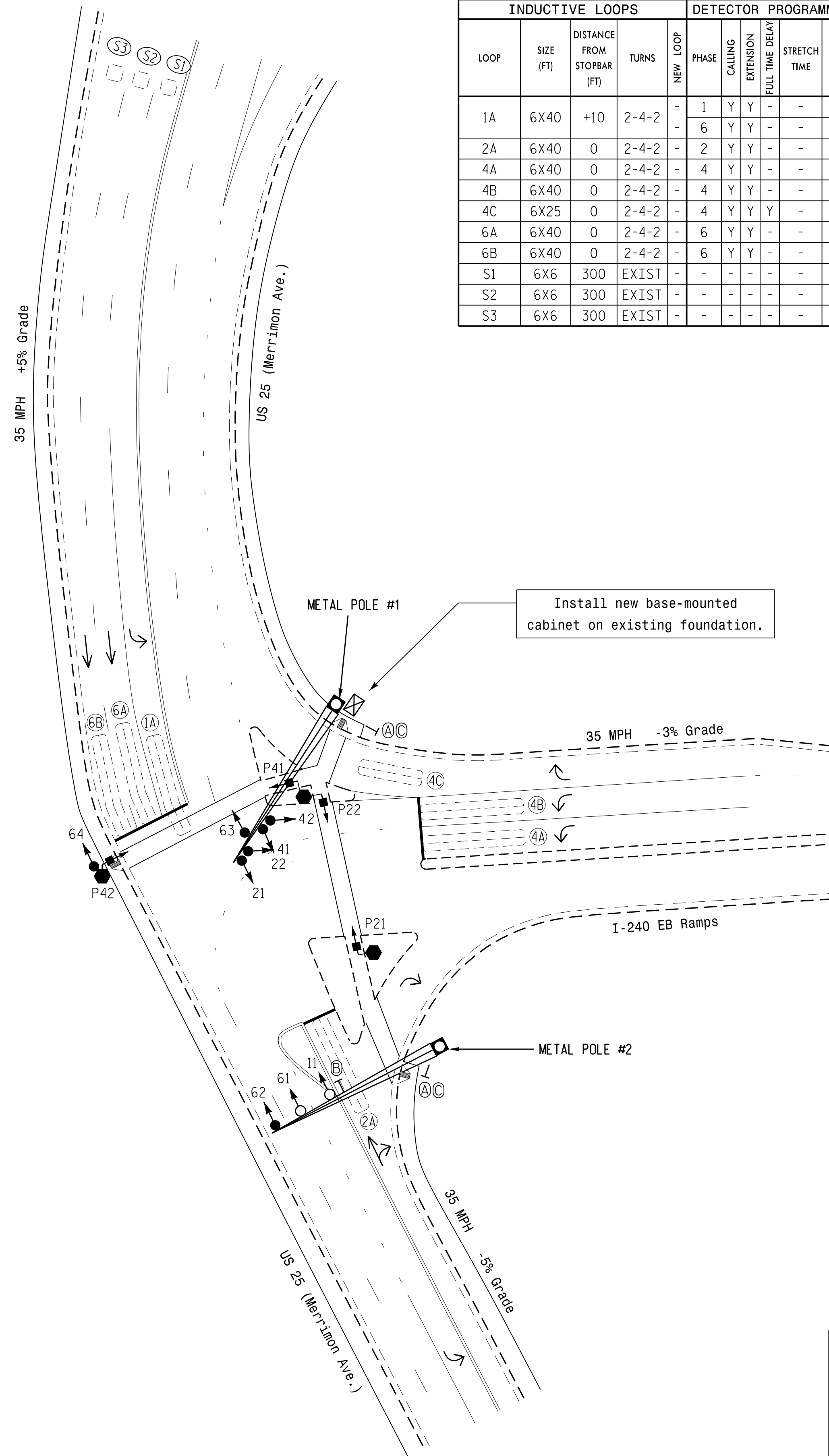
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 may be lead.
- Reposition existing signal head number 62.
- 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 | EXISTING |
|--|--|
| ○ → Traffic Signal Head | ● → Traffic Signal Head |
| ○ → Modified Signal Head | N/A |
| ○ → Sign | ○ → Sign |
| ○ → Pedestrian Signal Head With Push Button & Sign | ○ → Pedestrian Signal Head With Push Button & Sign |
| ○ → Signal Pole with Guy | ○ → Signal Pole with Guy |
| ○ → Signal Pole with Sidewalk Guy | ○ → Signal Pole with Sidewalk Guy |
| ○ → Metal Pole with Mastarm | ○ → Metal Pole with Mastarm |
| ○ → 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 |
| → Directional Arrow | → Directional Arrow |
| → Pavement Marking Arrow | → Pavement Marking Arrow |
| → Directional Drill | N/A |
| → Wheelchair Ramp | → Wheelchair Ramp |
| ○ Pedestrian Signal Pedestal | ○ Pedestrian Signal Pedestal |
| ○ Yield Sign (R1-2) | ○ Yield Sign (R1-2) |
| ○ Left Turn Arrow "Only" Sign (R3-5L) | ○ Left Turn Arrow "Only" Sign (R3-5L) |
| ○ Pedestrian Crossing Symbol Sign (W11-2) | ○ Pedestrian Crossing Symbol Sign (W11-2) |

OASIS 2070 TIMING CHART				
FEATURE	PHASE			
	1	2	4	6
Min Green 1 *	7	10	7	10
Extension 1 *	2.0	3.0	2.0	3.0
Max Green 1 *	15	45	30	45
Yellow Clearance	3.0	4.2	3.0	4.2
Red Clearance	2.4	1.8	3.4	1.8
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	7	7	-
Don't Walk 1	-	12	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	-	-	-	-
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.



Signal Upgrade

	<p>US 25 (Merrimon Avenue) at I-240 EB Ramps</p>		
	<p>Division 13 Buncombe County Asheville</p> <p>PLAN DATE: June 2016 REVIEWED BY: T.J. Williams</p> <p>PREPARED BY: R.N. Zinser REVIEWED BY:</p>	<p>REVISIONS</p> <p>INIT. DATE</p>	

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