

PHASING DIAGRAM

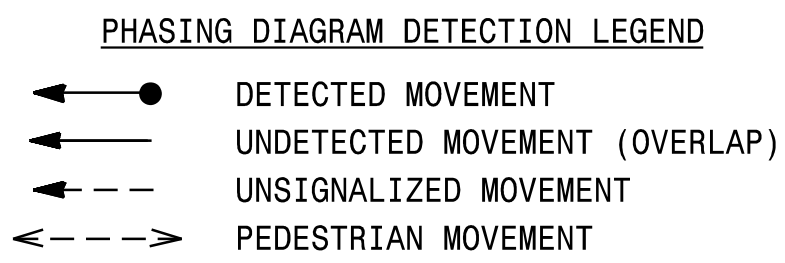
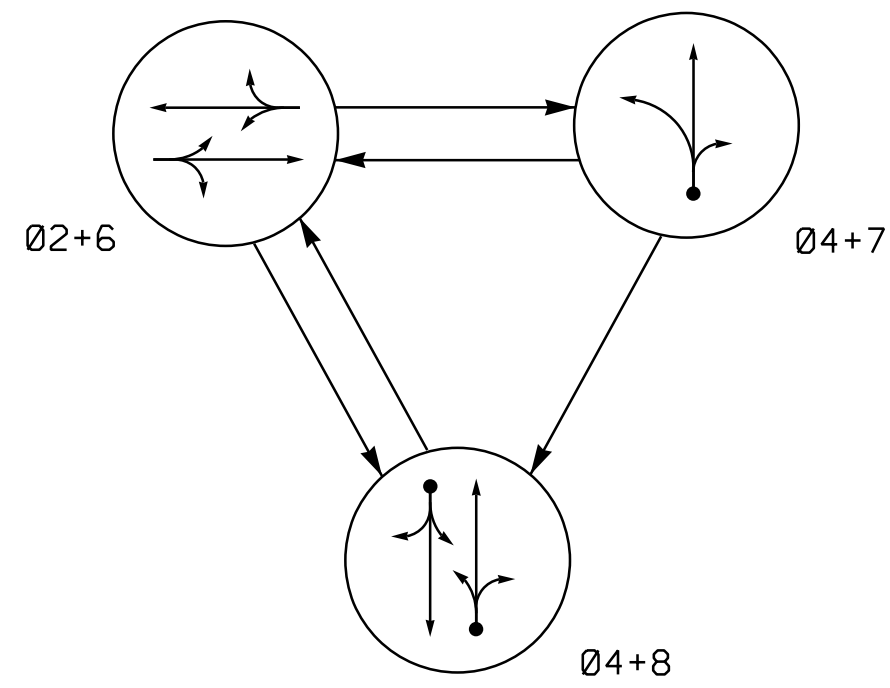
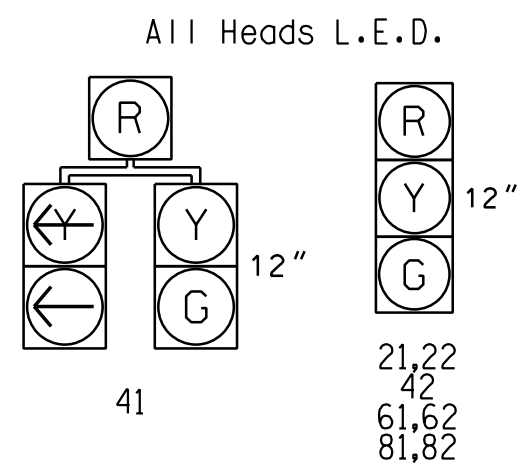


TABLE OF OPERATION

SIGNAL FACE	PHASE			
	02+6	04+7	04+8	F HEADS
21,22	G	R	R	Y
41	R	G	G	R
42	R	G	G	R
61,62	G	R	R	Y
81,82	R	R	G	R

SIGNAL FACE I.D.



OASIS 2070E ZONE & DETECTOR INSTALLATION CHART

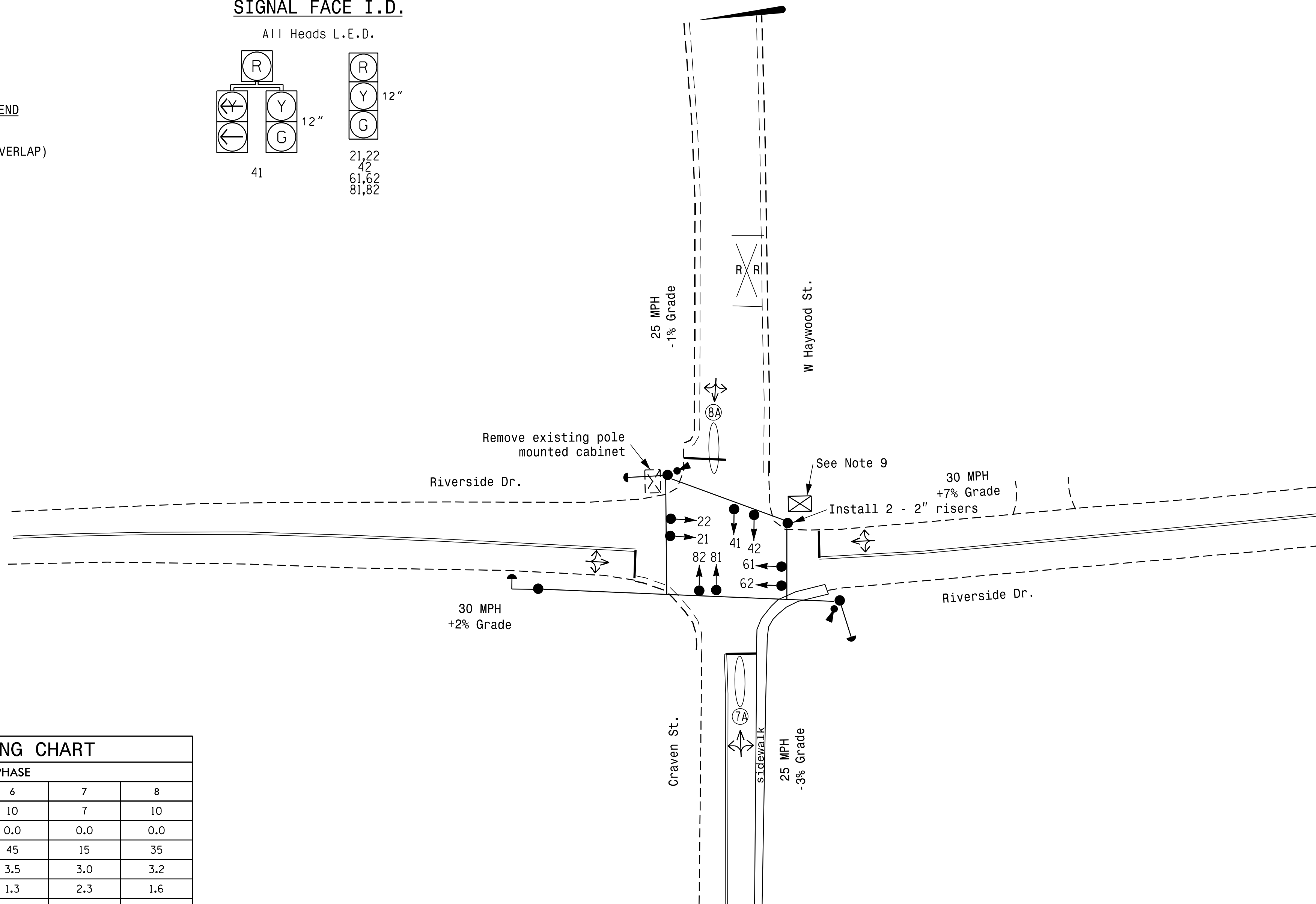
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
7A*	*	0	*	*	7	Y	Y	-	-	15	-	*
					4	Y	Y	-	-	-	-	*
8A*	*	+5	*	*	8	Y	Y	-	-	-	-	*

*Existing Microwave Detection Zone

3 Phase Semi-Actuated (Asheville Signal System)

NOTES

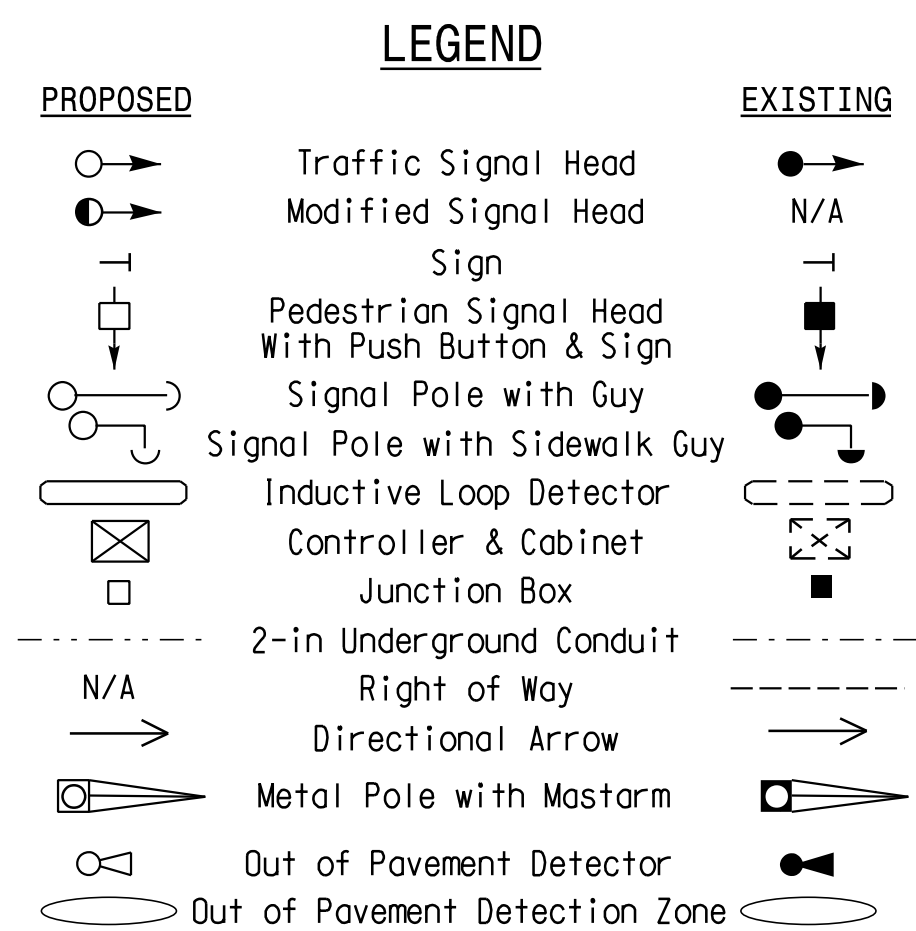
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Omit phase 7 during phase 8 on.
- Locate new cabinet on new foundation at new location shown. Provide a pedestal mounted meter and disconnect.
- Contractor shall coordinate all work with U-5019/RADTIP project.



OASIS 2070E TIMING CHART

FEATURE	PHASE				
	2	4	6	7	8
Min Green 1 *	10	10	10	7	10
Extension 1 *	0.0	0.0	0.0	0.0	0.0
Max Green 1 *	45	35	45	15	35
Yellow Clearance	3.2	3.3	3.5	3.0	3.2
Red Clearance	1.4	2.5	1.3	2.3	1.6
Red Revert	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	MAX RECALL	-	MAX RECALL	-	-
Vehicle Call Memory	-	-	-	-	-
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.



Signal Upgrade

Mattern & Craig
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Prepared for the Offices of:

CITY OF ASHEVILLE

Riverside Dr. at Craven St. and W Haywood St.

Division 13 Buncombe County Asheville

PLAN DATE: JUNE 2016 REVIEWED BY: SMH

PREPARED BY: BGR REVIEWED BY: JBV

REVISIONS: INIT. DATE

SCALE: 1"=30'

SEAL: JAMES B. VOSS, PROFESSIONAL ENGINEER, SEAL 022599

SIGNATURE: James Voss DATE: 12/13/2016

SIG. INVENTORY NO. COA-0005

11:06:03 AM
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