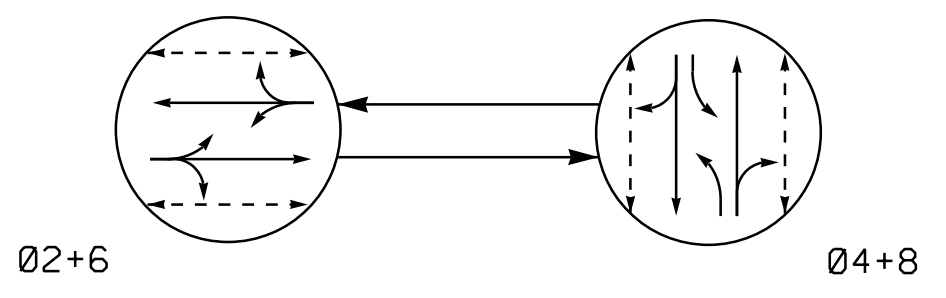


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

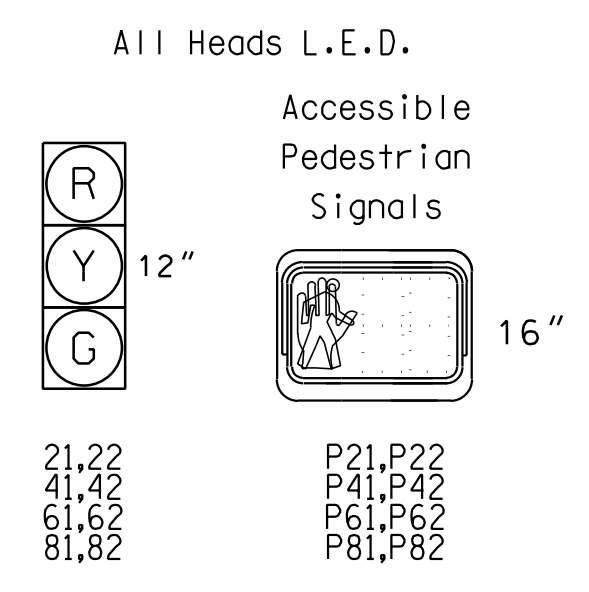
- DETECTED MOVEMENT
- ◄ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02+6	04+8	FLASH
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y
81,82	R	G	R
P21,P22	W	DW	DRK
P41,P42	DW	W	DRK
P61,P62	W	DW	DRK
P81,P82	DW	W	DRK

W - Walk
DW - Don't Walk
DRK - Dark

SIGNAL FACE I.D.



ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

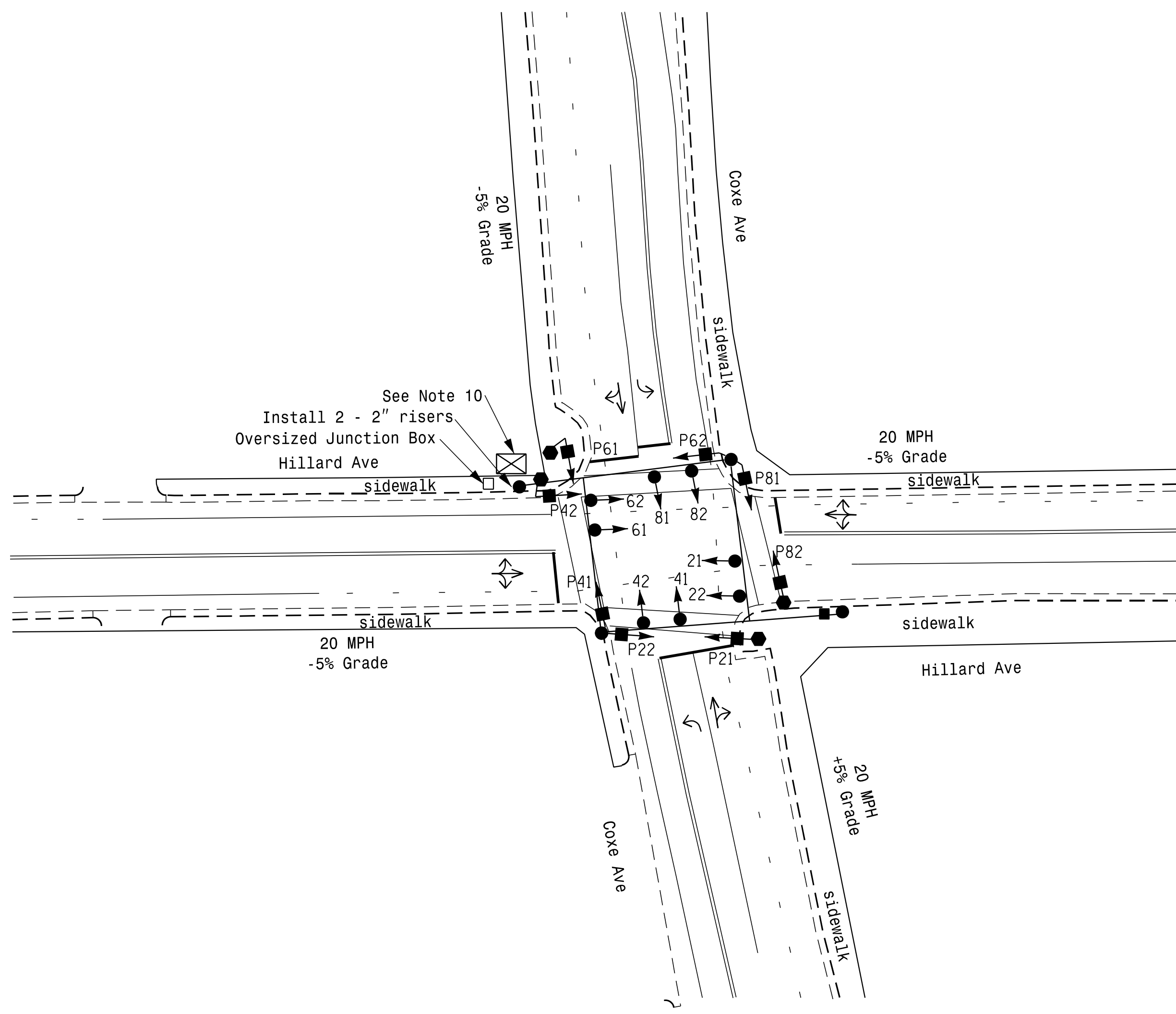
SIGNAL FACE	INTERVAL	MESSAGE/TONE*
P41	Walk	Hillard Avenue: "Walk sign is on to cross Hilliard Avenue"
	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**
P42	Walk	Percussive tone repeated @ 8-10 ticks/sec
	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**
P81	Walk	Hillard Avenue: "Walk sign is on to cross Hilliard Avenue"
	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**
P82	Walk	Percussive tone repeated @ 8-10 ticks/sec
	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**
P21	Walk	Percussive tone repeated @ 8-10 ticks/sec
	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**
P22	Walk	Coxe Avenue: "Walk sign is on to cross Coxe Avenue"
	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**
P61	Walk	Percussive tone repeated @ 8-10 ticks/sec
	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**
P62	Walk	Coxe Avenue: "Walk sign is on to cross Coxe Avenue"
	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**

* Volume should be set to 5 db over the ambient noise level.
** Pushbutton locator tones shall have a duration of 0.15 seconds or less, and shall repeat at 1-second intervals.

OASIS 2070E TIMING CHART

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	10	7	10	7
Extension 1 *	0.0	0.0	0.0	0.0
Max Green 1 *	20	20	20	20
Yellow Clearance	3.1	3.1	3.1	3.0
Red Clearance	2.3	1.8	2.3	1.9
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	10	11	10	11
Walk Advance**	3.0	3.0	3.0	3.0
Don't Walk 1	10	9	10	9
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MAX/PED	MAX/PED	MAX/PED	MAX/PED
Vehicle Call Memory	-	-	-	-
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

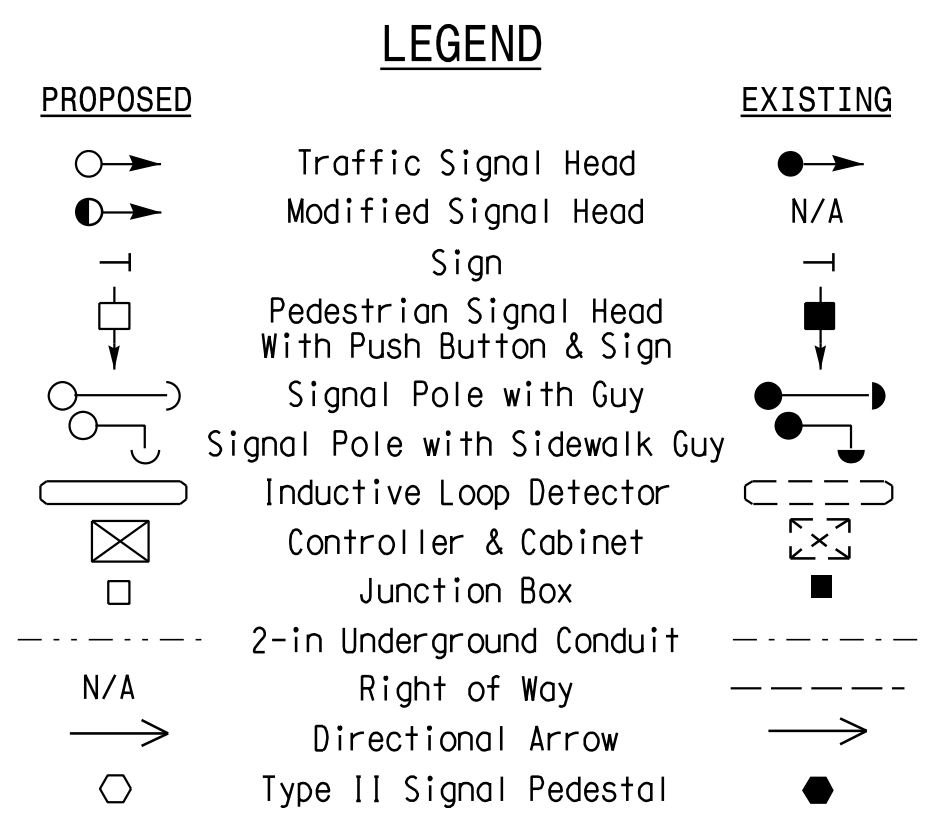
* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.
** See note 8.



2 Phase Pre-Timed (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.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Program controller to allow an Advance Walk movement before serving the vehicle phase.
- Program phases 2 and 6 for Rest-in-Walk.
- Locate new cabinet on existing foundation.



4:08:26 PM R:\35602_Ashve\1110_Signal_System\DW\COA-0303\COA-303.s1g.dgn

Signal Upgrade

Mattern & Craig
CONSULTING ENGINEERS • SURVEYORS
FIRM LICENSE No. C-1154
12 BROAD STREET
ASHEVILLE, NORTH CAROLINA 28801
(828) 254-2201
FAX (828) 254-4562

 Prepared for the Offices of: Hillard Ave at Coxe Ave	Division 13 Buncombe County Asheville PLAN DATE: MAY 2016 REVIEWED BY: SMH PREPARED BY: BGR REVIEWED BY: JBV	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER JAMES B. VOSS 022599 12/13/2016
	SCALE 1"=30' REVISIONS: INIT. DATE	