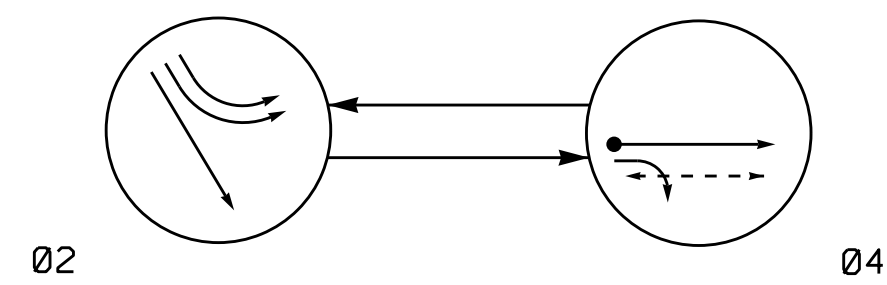


PHASING DIAGRAM



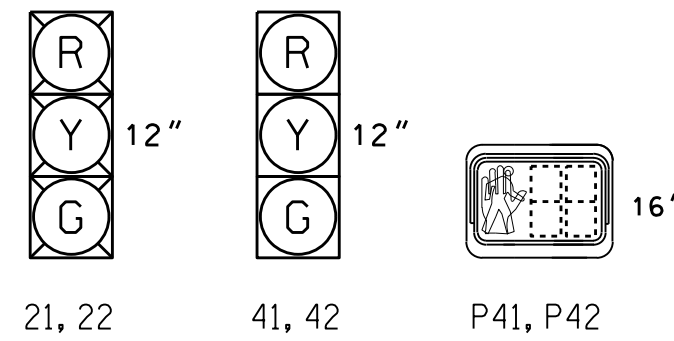
PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←—→ UNDETECTED MOVEMENT (OVERLAP)
- ←---→ UNSIGNALIZED MOVEMENT
- ←- - -> PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE		
	Ø2	Ø4	F L H
21, 22	G	R	Y
41, 42	R	G	R
P41, P42	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.
 Denotes Optically Programmable

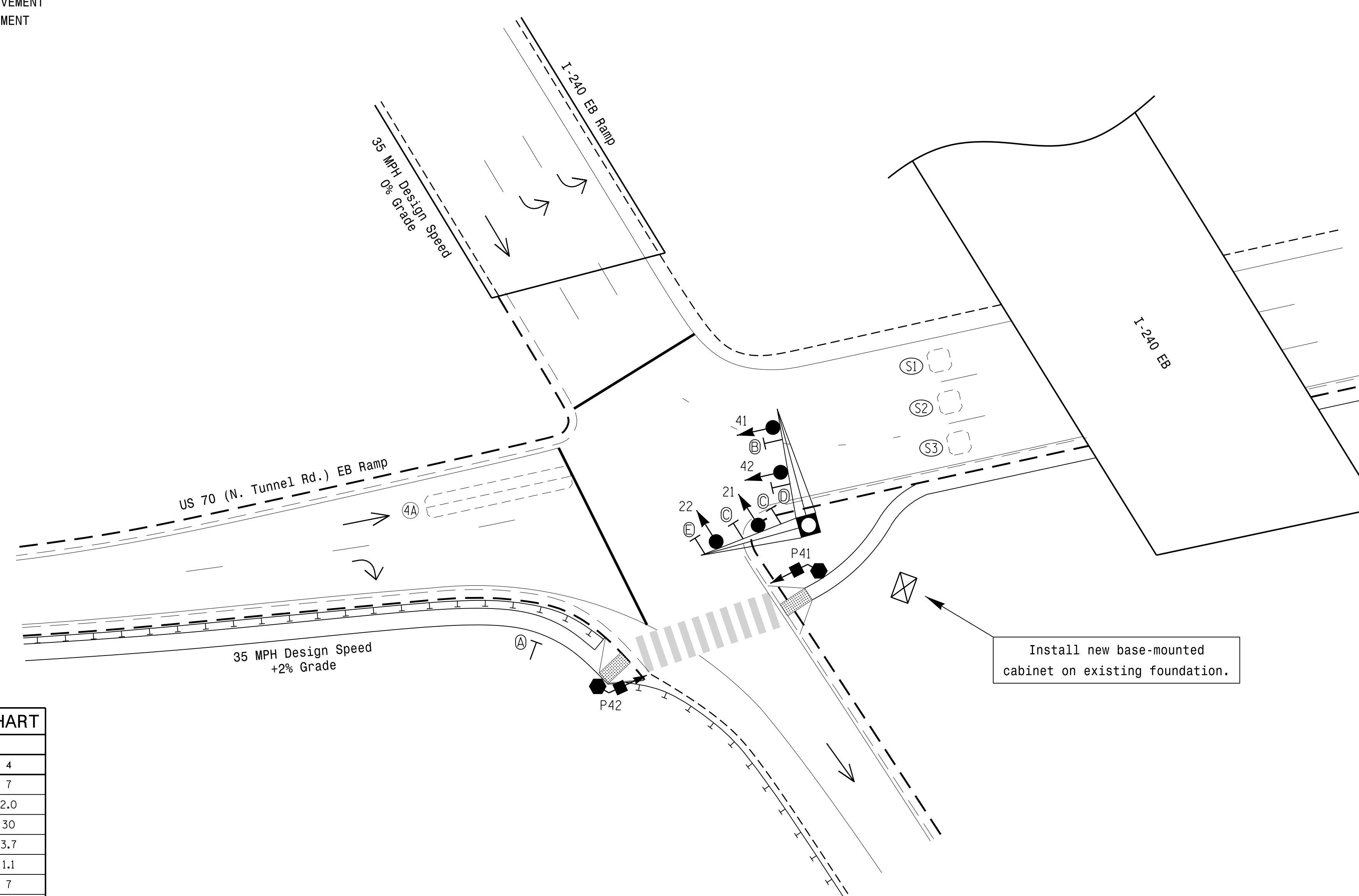


OASIS 2070 LOOP & DETECTOR INSTALLATION CHART											
INDUCTIVE LOOPS						DETECTOR PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
4A	6X40	0	2-4-2	-	4	Y	-	-	-	-	Y
S1	6X6	+100	EXIST	-	-	-	-	-	-	-	Y
S2	6X6	+100	EXIST	-	-	-	-	-	-	-	Y
S3	6X6	+100	EXIST	-	-	-	-	-	-	-	Y

2 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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Program pedestrian signal for late night 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.



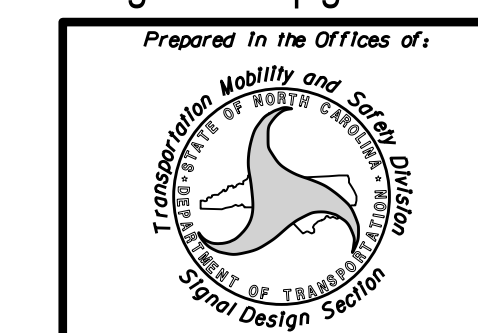
LEGEND

PROPOSED	EXISTING
	N/A

OASIS 2070 TIMING CHART		
FEATURE	PHASE	
	2	4
Min Green 1 *	10	7
Extension 1 *	0.0	2.0
Max Green 1 *	60	30
Yellow Clearance	3.8	3.7
Red Clearance	1.4	1.1
Walk 1 *	-	7
Don't Walk 1	-	10
Seconds Per Actuation *	-	-
Max Variable Initial *	-	-
Time Before Reduction *	-	-
Time To Reduce *	-	-
Minimum Gap	-	-
Recall Mode	MAX RECALL	-
Vehicle Call Memory	-	-
Dual Entry	-	-
Simultaneous Gap	ON	ON

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

Signal Upgrade



I-240 EB Ramp at US 70 (N. Tunnel Rd.) EB Ramp Tri-Level Interchange
 Division 13 Buncombe County Asheville
 PLAN DATE: November 2015 REVIEWED BY: Z.M. Little
 PREPARED BY: R.N. Zinser REVIEWED BY:

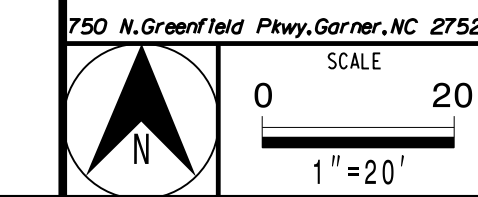
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

RICHARD N. ZINSER
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE NO. 043914

Richard N. Zinser 8/8/2016
 F:\388973472248F DATE

SIG. INVENTORY NO. 13-0032



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 Design: Signal Design\13-0032\sig.dgn...
 Designer: rnz
 Date: 8/8/2016