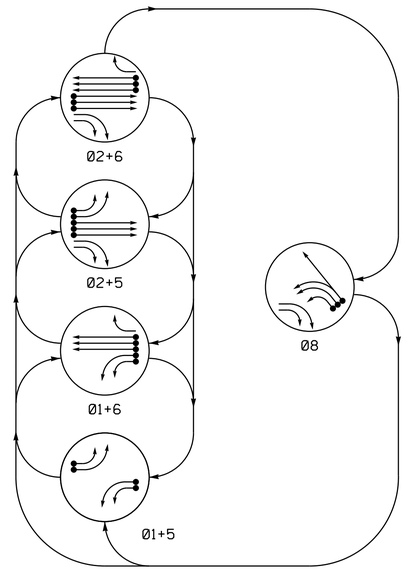
PROJECT REFERENCE NO.	SHEET NO.
U-5742	Sig. 28.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

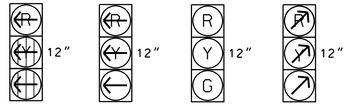
TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	PHASE 01+6	PHASE 02+5	PHASE 02+6	PHASE 08	FLASH
11,12	←	←	~~R~~	~~R~~	~~R~~	~~R~~
21,22,23	R	R	G	G	R	Y
24,25	~~↗~~	~~↗~~	↗	↗	↗	~~↗~~
51,52	←	~~R~~	←	~~R~~	~~R~~	~~R~~
61,62,63	R	G	R	G	R	Y
81,82	~~R~~	~~R~~	~~R~~	~~R~~	←	~~R~~
83,84	R	R	R	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

Louvers



11,12 | 51,52 81,82 | 21,22,23 61,62,63 83,84 | 24,25

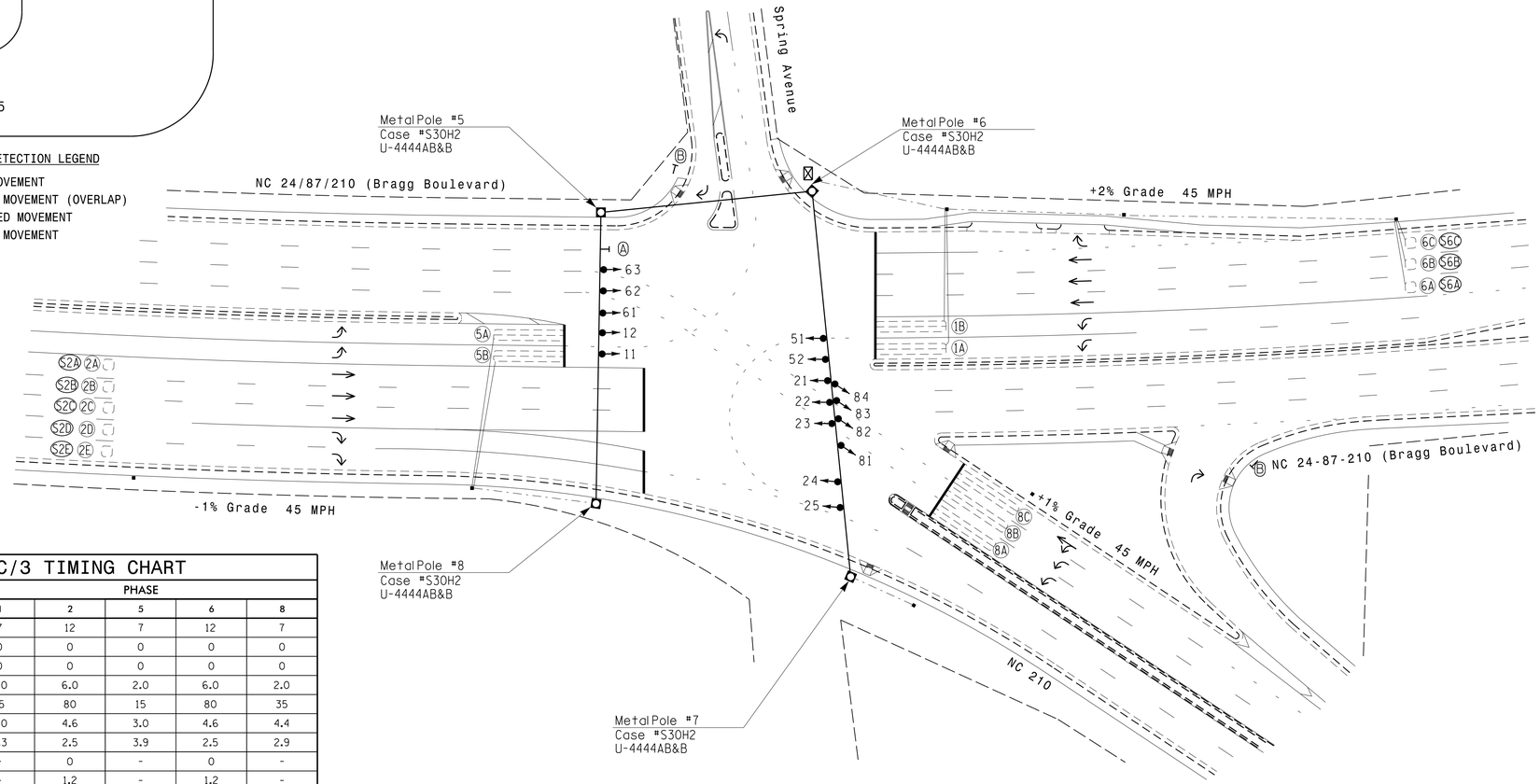
ASC/3 DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	-	S	-	X
1B	6X40	0	2-4-2	-	1	Yes	-	-	S	-	X
2A/S2A	6X6	300	5	-	2	Yes	-	-	N	X	X
2B/S2B	6X6	300	5	-	2	Yes	-	-	N	X	X
2C/S2C	6X6	300	5	-	2	Yes	-	-	N	X	X
2D/S2D	6X6	300	5	-	2	Yes	-	-	N	X	X
2E/S2E	6X6	300	5	-	2	Yes	-	-	N	X	X
5A	6X40	0	2-4-2	-	5	Yes	-	-	S	-	X
5B	6X40	0	2-4-2	-	5	Yes	-	-	S	-	X
6A/S6A	6X6	300	5	-	6	Yes	-	-	N	X	X
6B/S6B	6X6	300	5	-	6	Yes	-	-	N	X	X
6C/S6C	6X6	300	5	-	6	Yes	-	-	N	X	X
8A	6X40	0	2-4-2	-	8	Yes	-	-	S	-	X
8B	6X40	0	2-4-2	-	8	Yes	-	-	S	-	X
8C	6X40	0	2-4-2	-	8	Yes	-	-	S	-	X

5 Phase
Fully Actuated
Fayetteville Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. 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.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Pavement markings are existing.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



ASC/3 TIMING CHART

FEATURE	PHASE 1	PHASE 2	PHASE 5	PHASE 6	PHASE 8
Min Green *	7	12	7	12	7
Walk *	0	0	0	0	0
Ped Clear	0	0	0	0	0
Veh. Extension *	2.0	6.0	2.0	6.0	2.0
Max 1 *	15	80	15	80	35
Yellow	3.0	4.6	3.0	4.6	4.4
Red Clear	3.3	2.5	3.9	2.5	2.9
Actuations B4 Add *	-	0	-	0	-
Seconds /Actuation *	-	1.2	-	1.2	-
Max Initial *	-	34	-	34	-
Time Before Reduction *	-	15	-	15	-
Time To Reduce *	-	45	-	45	-
Minimum Gap	-	3.0	-	3.0	-
Locking Detector	-	X	-	X	-
Recall Position	-	VEH. RECALL	-	VEH. RECALL	-
Dual Entry	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X

* 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.

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	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	→
—DD—	Directional Drill	N/A
◯	Metal Strain Pole	◘
N/A	Wheelchair Ramp	◢
Ⓐ	Right Arrow "ONLY" Sign (R3-5R)	Ⓐ
Ⓑ	"YIELD" Sign (R1-2)	Ⓑ

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for: Transportation Mobility and Safety Division, Signal Design Section, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

750 N.Greenfield Pkwy,Garner,NC 27529

NC 24/87/210 (Bragg Boulevard) at NC 210/Spring Avenue

Division 6 | Cumberland County | Spring Lake

PLAN DATE: October 2015 | REVIEWED BY: JPG

PREPARED BY: K.G. Peedin, Jr | REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE 0 40' 1"=40'

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 029904 ENGINEER JASON P. GALLOWAY

DocuSigned by: Jason P. Galloway F70DEA704B1841D... 2/18/2016

SIG. INVENTORY NO. 06-0065