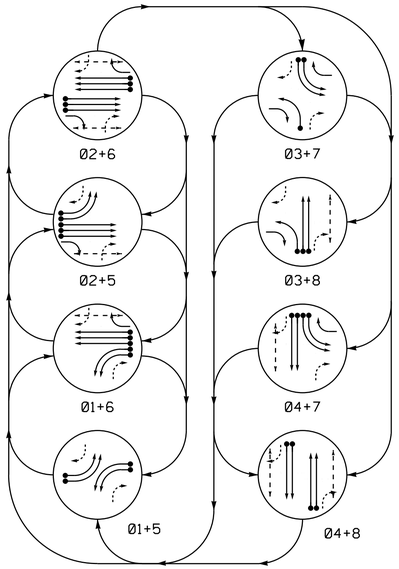
PROJECT REFERENCE NO.	SHEET NO.
U-3315	SIG 1.7

8 PHASE FULLY ACTUATED (GREENVILLE CITY SYSTEM)

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

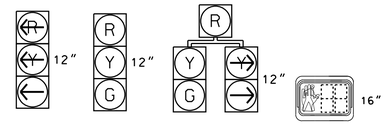
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	FLASH
11, 12	←	←	R	R	R	R	R	R	R
21, 22, 24	R	R	G	G	R	R	R	R	Y
23	R	R	G	G	R ↓	R ↘	R	R	Y
31	R	R	R	R	←	←	R	R	R
41, 42, 43	R	R	R	R	R	R	G	G	R
51, 52	←	R	←	R	R	R	R	R	R
61, 62, 64	R	G	R	G	R	R	R	R	Y
63	R	G	R	G	R ↓	R	R ↘	R	Y
71, 72	R	R	R	R	←	R	←	R	R
81, 82, 83	R	R	R	R	R	G	R	G	R
P21, P22	DW	DW	W	W	DW	DW	DW	DW	DRK
P41, P42	DW	DW	DW	DW	DW	DW	W	W	DRK
P61, P62	DW	W	DW	W	DW	DW	DW	DW	DRK
P81, P82	DW	DW	DW	DW	DW	W	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



11, 12
31
51, 52
71, 72

21, 22, 24
41, 42, 43
61, 62, 64
81, 82, 83

23
63

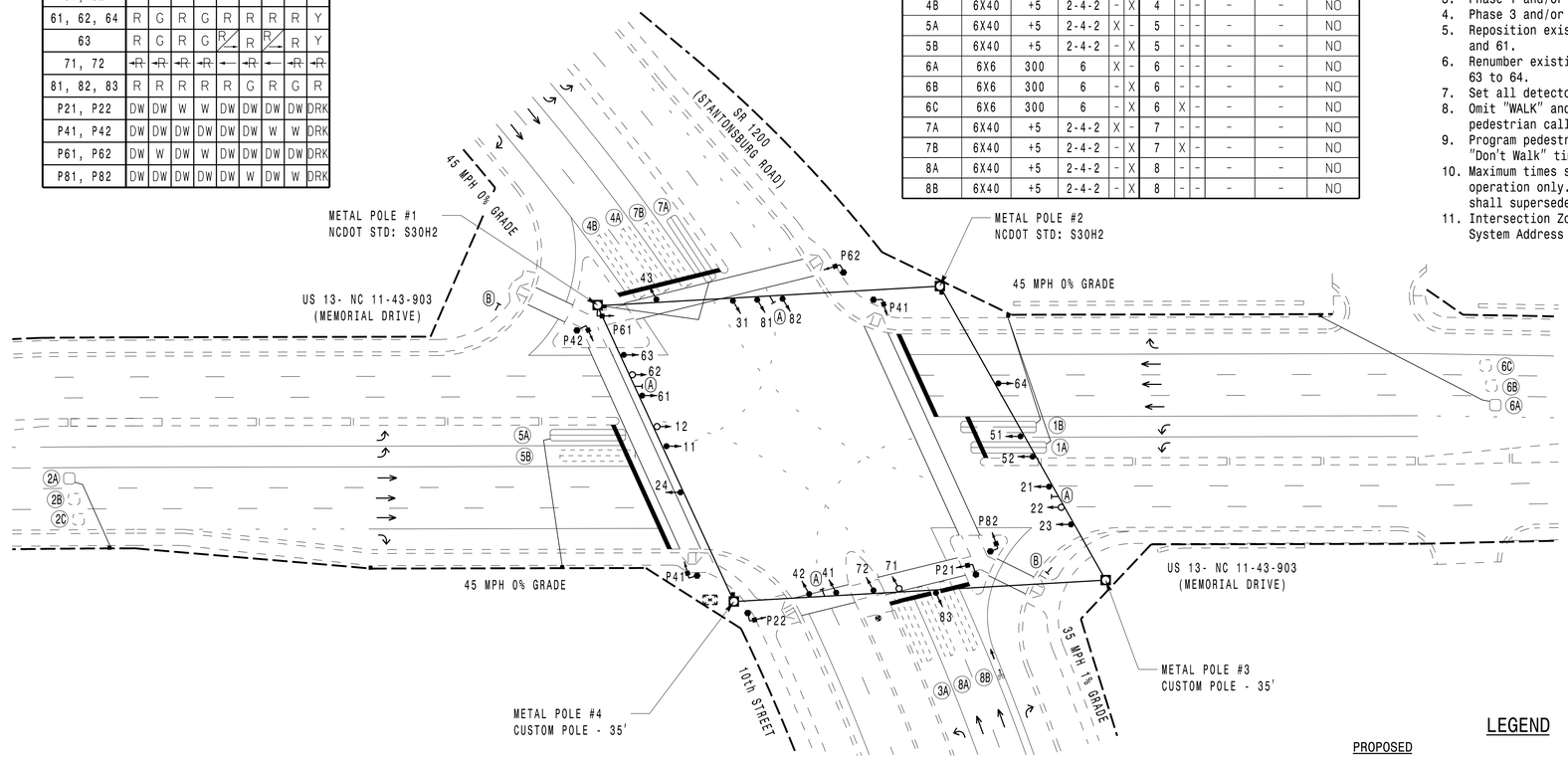
P21, P22
P41, P42
P61, P62
P81, P82

NEMA LOOP & DETECTOR INSTALLATION CHART
with TS-2 CABINET

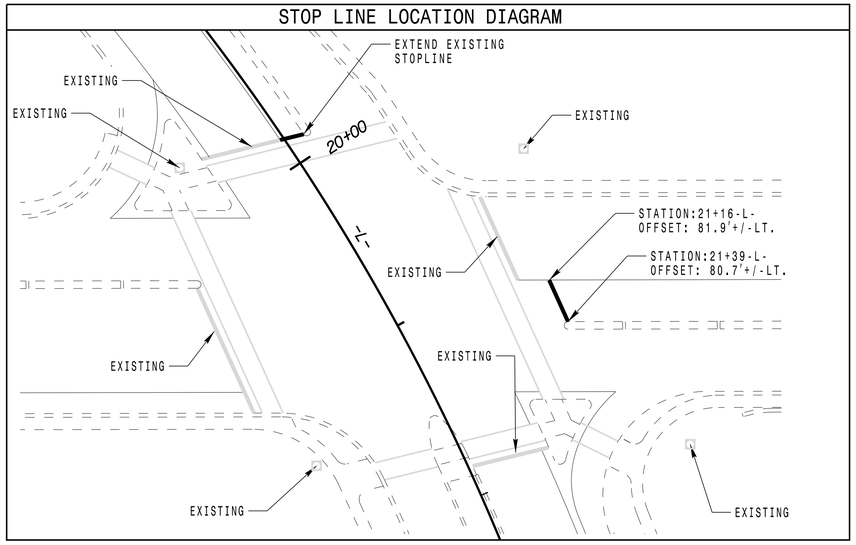
INDUCTIVE LOOPS						DETECTOR UNITS					
LOOP NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	NEW	EXISTING	NEMA PHASE	NEW	EXISTING	TIMING FEATURE	TIMING TIME	INHIBIT DELAY DURING GREEN?
1A	6X40	+5	2-4-2	X	-	1	-	-	-	-	NO
1B	6X40	+5	2-4-2	X	-	1	X	-	-	-	NO
2A	6X6	300	4	X	-	2	-	-	-	-	NO
2B	6X6	300	4	-	X	2	-	-	-	-	NO
2C	6X6	300	4	-	X	2	X	-	-	-	NO
3A	6X40	+5	2-4-2	-	X	3	-	-	-	-	NO
4A	6X40	+5	2-4-2	-	X	4	-	-	-	-	NO
4B	6X40	+5	2-4-2	-	X	4	-	-	-	-	NO
5A	6X40	+5	2-4-2	X	-	5	-	-	-	-	NO
5B	6X40	+5	2-4-2	-	X	5	-	-	-	-	NO
6A	6X6	300	6	X	-	6	-	-	-	-	NO
6B	6X6	300	6	-	X	6	-	-	-	-	NO
6C	6X6	300	6	-	X	6	X	-	-	-	NO
7A	6X40	+5	2-4-2	X	-	7	-	-	-	-	NO
7B	6X40	+5	2-4-2	-	X	7	X	-	-	-	NO
8A	6X40	+5	2-4-2	-	X	8	-	-	-	-	NO
8B	6X40	+5	2-4-2	-	X	8	-	-	-	-	NO

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. Phase 3 and/or phase 7 may be lagged.
5. Reposition existing signal heads numbered 11, 51, 52, and 61.
6. Renumber existing head 22 to 23, 23 to 24, 62 to 63 and 63 to 64.
7. Set all detector units to presence mode.
8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
9. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
11. Intersection Zone Number: 11
    System Address Number: 53



STOP LINE LOCATION DIAGRAM



ASC3 NEMA TIMING CHART

FEATURE	PHASE 01	02	03	04	05	06	07	08
MINIMUM GREEN *	7 SEC.	12 SEC.	7 SEC.	7 SEC.	7 SEC.	12 SEC.	7 SEC.	7 SEC.
PASSAGE/GAP *	2.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.	2.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	3.0 SEC.	4.5 SEC.	3.0 SEC.	4.5 SEC.	3.0 SEC.	4.5 SEC.	3.0 SEC.	3.8 SEC.
RED CLEARANCE	3.8 SEC.	2.4 SEC.	4.6 SEC.	2.9 SEC.	3.6 SEC.	2.4 SEC.	4.6 SEC.	3.4 SEC.
MAXIMUM 1 *	30 SEC.	90 SEC.	30 SEC.	45 SEC.	30 SEC.	90 SEC.	30 SEC.	45 SEC.
RECALL POSITION	NONE	MIN. RECALL	NONE	NONE	NONE	MIN. RECALL	NONE	NONE
VEHICLE CALL MEMORY	NONLOCK	LOCK	NONLOCK	NONLOCK	NONLOCK	LOCK	NONLOCK	NONLOCK
WALK *	– SEC.	7 SEC.	– SEC.	7 SEC.	– SEC.	7 SEC.	– SEC.	7 SEC.
FLASHING DON'T WALK	– SEC.	22 SEC.	– SEC.	30 SEC.	– SEC.	26 SEC.	– SEC.	32 SEC.
VOLUME DENSITY	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
ACTUATION B4 ADD *	– VEH.	0 VEH.	– VEH.	– VEH.	– VEH.	0 VEH.	– VEH.	– VEH.
SEC. PER ACTUATION *	– SEC.	1.0 SEC.	– SEC.	– SEC.	– SEC.	1.0 SEC.	– SEC.	– SEC.
MAX. INITIAL *	– SEC.	34 SEC.	– SEC.	– SEC.	– SEC.	34 SEC.	– SEC.	– SEC.
TIME B4 REDUCTION *	– SEC.	15 SEC.	– SEC.	– SEC.	– SEC.	15 SEC.	– SEC.	– SEC.
TIME TO REDUCE *	– SEC.	45 SEC.	– SEC.	– SEC.	– SEC.	45 SEC.	– SEC.	– SEC.
MINIMUM GAP	– SEC.	3.0 SEC.	– SEC.	– SEC.	– SEC.	3.0 SEC.	– SEC.	– SEC.

* 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	
	Metal Strain Pole	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
Ⓐ	Street Name Sign	Ⓐ
Ⓑ	"YIELD" Sign (R1-2)	Ⓑ

PLANS PREPARED IN THE OFFICE OF:
Kimley»Horn
NC License #F-0102
P.O. Box 33068
Raleigh, NC 27636
(919) 677-2000

FINAL DESIGN

Prepared For: Transportation Mobility and Safety Division, Signal Design Section, STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 40' 1"=40'

US 13- NC 11-43-903(MEMORIAL DRIVE)
AT
SR 1200 (STANTONSBURG ROAD)/
10th STREET

DIVISION 2 PITT COUNTY GREENVILLE

PLAN DATE:	JUNE 2014	REVIEWED BY:	SL PHILLILPS
PREPARED BY:	SP PENNINGTON	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 032607 ENGINEER STACIE L. PHILLIPS

DocuSigned by: Stacie Phillips 9/2/2014
DC87A59ED60B437
SIGNATURE DATE

SIG. INVENTORY NO. 02-0053

8/29/2014 10:56:15 AM susan.pennington K:\MAL_Roadway\4011036175 (U-3315)\Traffic Signals\S4 - Signal Design\1-02-0053 Memorial\1.7 020053-140829a.dgn