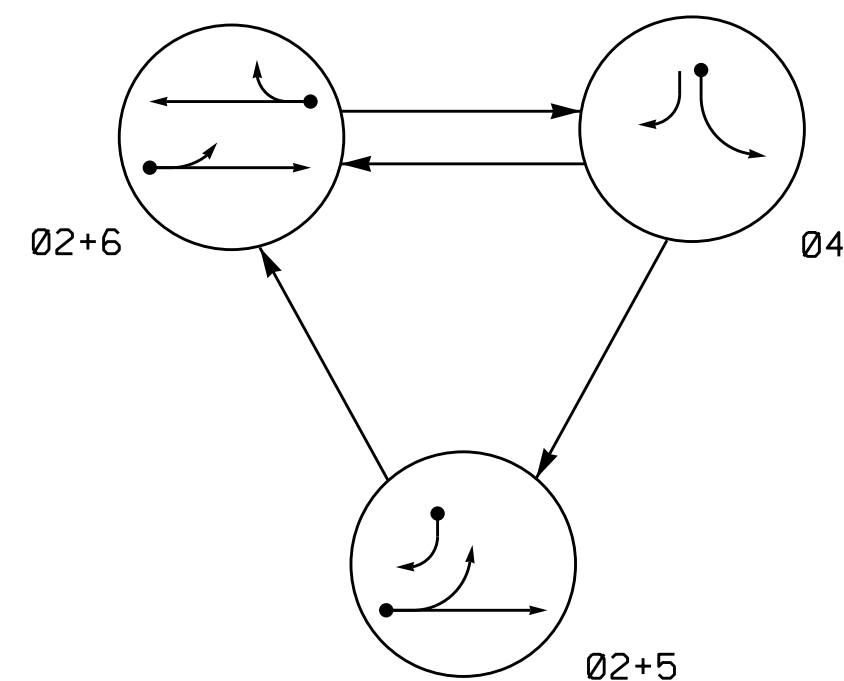


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

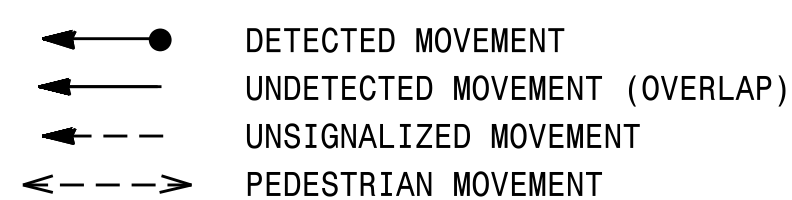
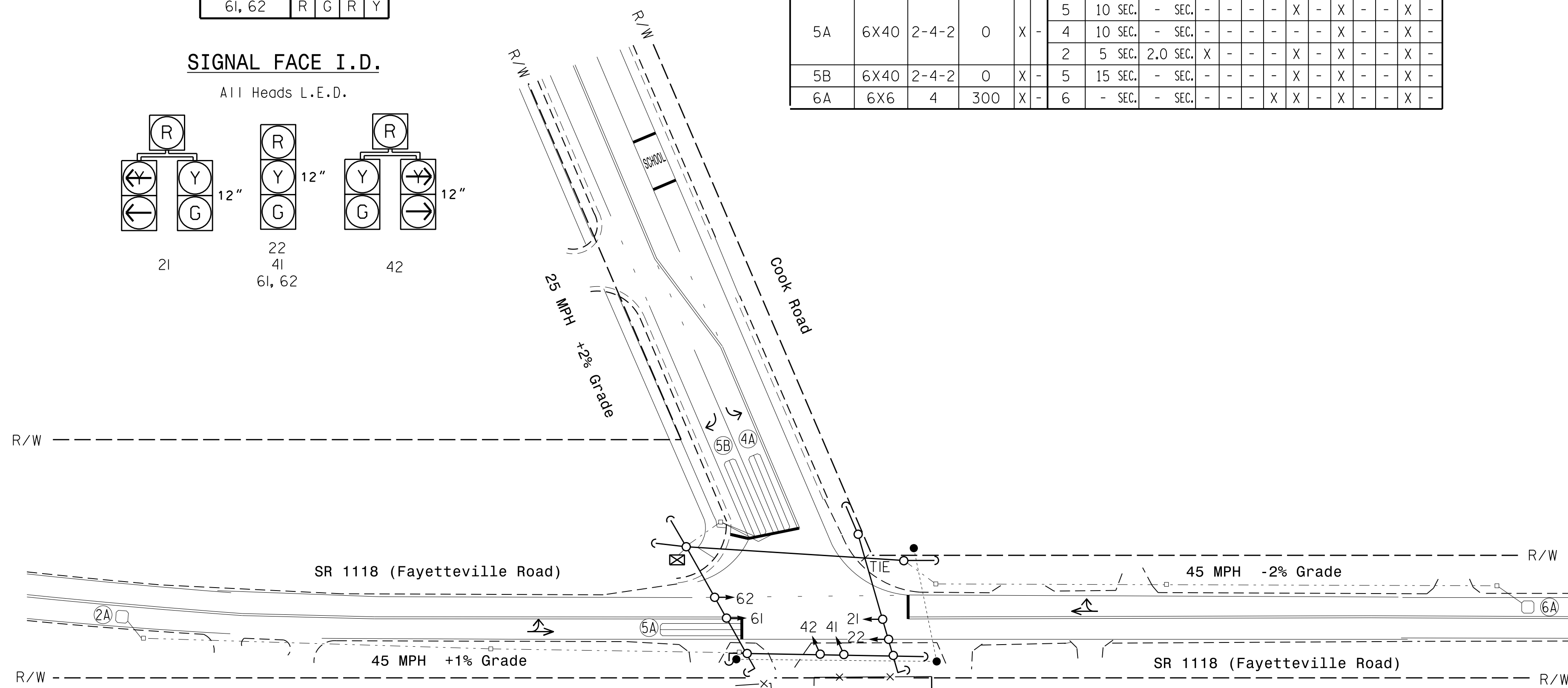
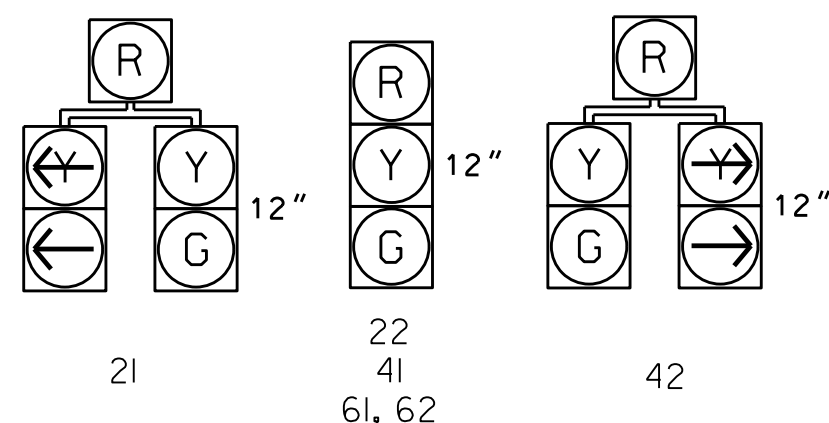


TABLE OF OPERATION	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

SIGNAL FACE	PHASE			
	Ø 2 + 5	Ø 2 + 6	Ø 4	FLASH
21		G	R	Y
22	G	G	R	Y
41	R	R	G	R
42		R	G	R
61, 62	R	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.

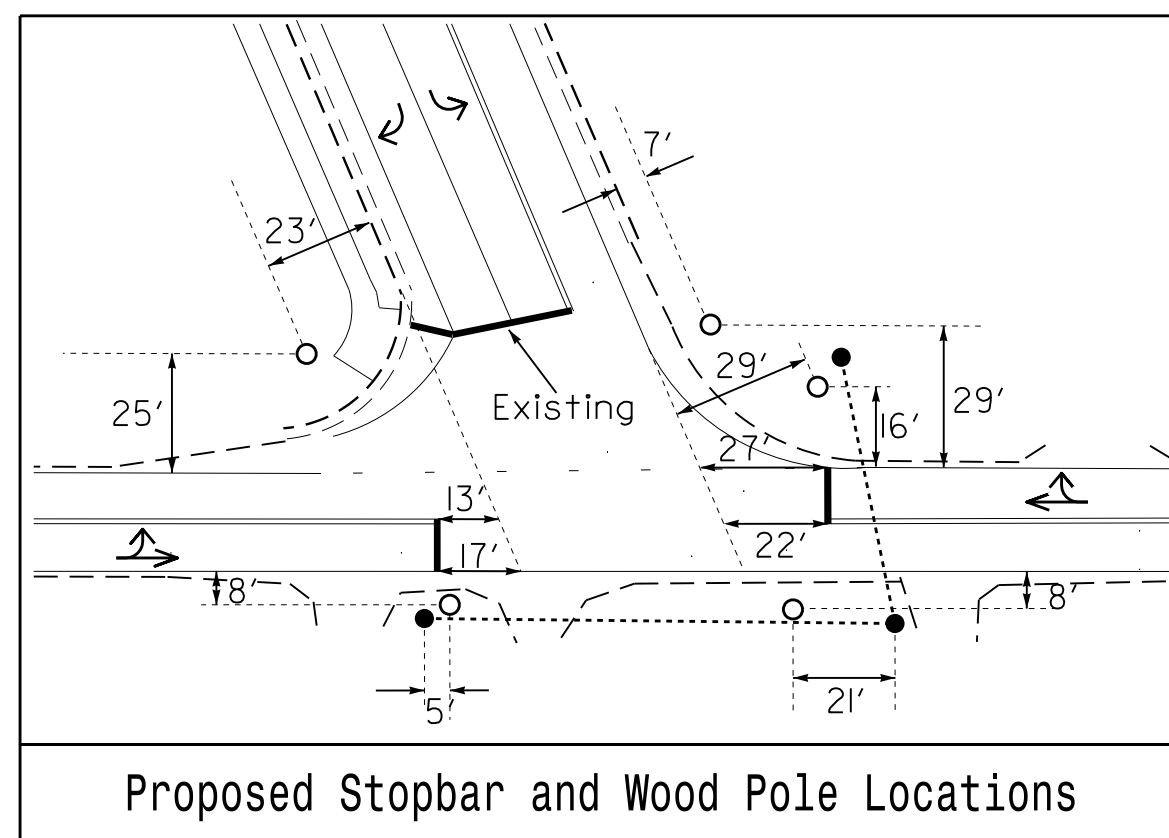


TIMING CHART

2033 SOFTWARE w/ 2070 CONTROLLER

PHASE	02	04	05	06
MINIMUM INITIAL *	12 SEC.	7 SEC.	7 SEC.	12 SEC.
VEHICLE EXTENSION *	6.0 SEC.	2.0 SEC.	2.0 SEC.	6.0 SEC.
YELLOW CHANGE INT.	4.4 SEC.	3.0 SEC.	3.0 SEC.	4.7 SEC.
RED CLEARANCE	1.0 SEC.	2.3 SEC.	1.8 SEC.	1.0 SEC.
MAXIMUM LIMIT *	90 SEC.	30 SEC.	15 SEC.	90 SEC.
RECALL POSITION	VEH. RECALL	NONE	NONE	VEH. RECALL
VEHICLE CALL MEMORY	NONLOCK	NONLOCK	YELLOW LOCK	YELLOW LOCK
DOUBLE ENTRY	OFF	OFF	OFF	OFF
WALK *	— SEC.	— SEC.	— SEC.	— SEC.
FLASHING DON'T WALK	— SEC.	— SEC.	— SEC.	— SEC.
TYPE 3 LIMIT	— SEC.	— SEC.	— SEC.	— SEC.
ALTERNATE EXTENSION	— SEC.	— SEC.	— SEC.	— SEC.
ADD PER VEHICLE *	— SEC.	— SEC.	— SEC.	2.5 SEC.
MAXIMUM INITIAL *	— SEC.	— SEC.	— SEC.	34 SEC.
MAXIMUM GAP*	7.0 SEC.	2.0 SEC.	2.0 SEC.	7.0 SEC.
REDUCE 0.1 SEC EVERY *	1.5 SEC.	— SEC.	— SEC.	1.5 SEC.
MINIMUM GAP	3.0 SEC.	2.0 SEC.	2.0 SEC.	3.0 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.



2033 SOFTWARE w/ 2070 CONTROLLER LOOP & DETECTOR UNIT INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING													SYSTEM LOOPS	STATUS
					NEMA PHASE	TIMING		ATTRIBUTES											
								1	2	3	4	5	6	7	8				
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW	EXISTING		DELAY	CARRY (STRETCH)	FULL TIME DELAY	PREDISTRAN CALL	RESERVED	COUNT	EXTENSION	TYPE 3	CALLING	ALTERNATE		NEW	EXISTING
2A	6X6	4	300	X	-	2	- SEC.	- SEC.	-	-	-	X	X	-	X	-	-	X	-
4A	6X40	2-4-2	0	X	-	4	- SEC.	- SEC.	-	-	-	-	X	-	X	-	-	X	-
4B	6X40	2-4-2	0	X	-	4	15 SEC.	- SEC.	-	-	-	-	X	-	X	-	-	X	-
5A	6X40	2-4-2	0	X	-	5	10 SEC.	- SEC.	-	-	-	-	X	-	X	-	-	X	-
					-	4	10 SEC.	- SEC.	-	-	-	-	-	X	-	-	X	-	
					-	2	5 SEC.	2.0 SEC.	X	-	-	X	-	X	-	-	X	-	
5B	6X40	2-4-2	0	X	-	5	15 SEC.	- SEC.	-	-	-	-	X	-	X	-	-	X	-
6A	6X6	4	300	X	-	6	- SEC.	- SEC.	-	-	-	-	X	X	-	X	-	-	X

3 Phase
Fully Actuated
(Isolated)

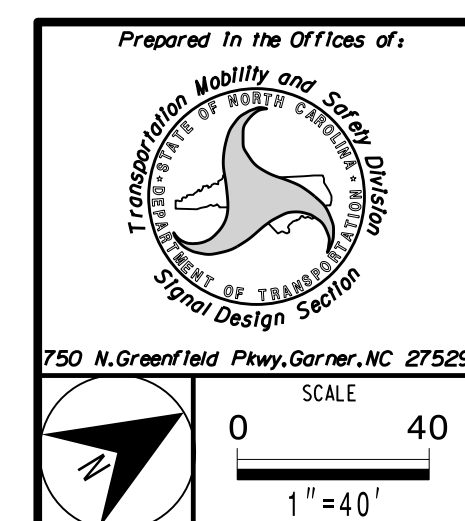
NOTES

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. Program phase 5 as protected/permissive.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. The cabinet should be designed to include an Auxiliary Output file for future use.
7. Program all timing information into phase banks 1, 2, and 3 unless otherwise noted.
8. Set phase bank 3 maximum limit to 250 seconds for phases used.
9. Pavement markings are existing unless otherwise shown.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

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	

New Installation



SR 1118 (Fayetteville Road)
at
Cook Road [South Intersection]

Division 5 Durham County Durham

PLAN DATE: .January 2017	REVIEWED BY:
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29	PREPARED BY: C.E. Carter	REVIEWED BY:
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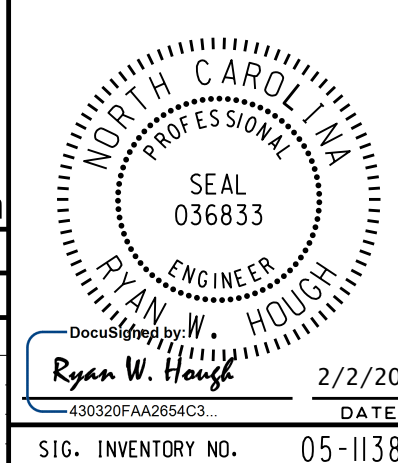
REVISIONS	INIT.	DATE

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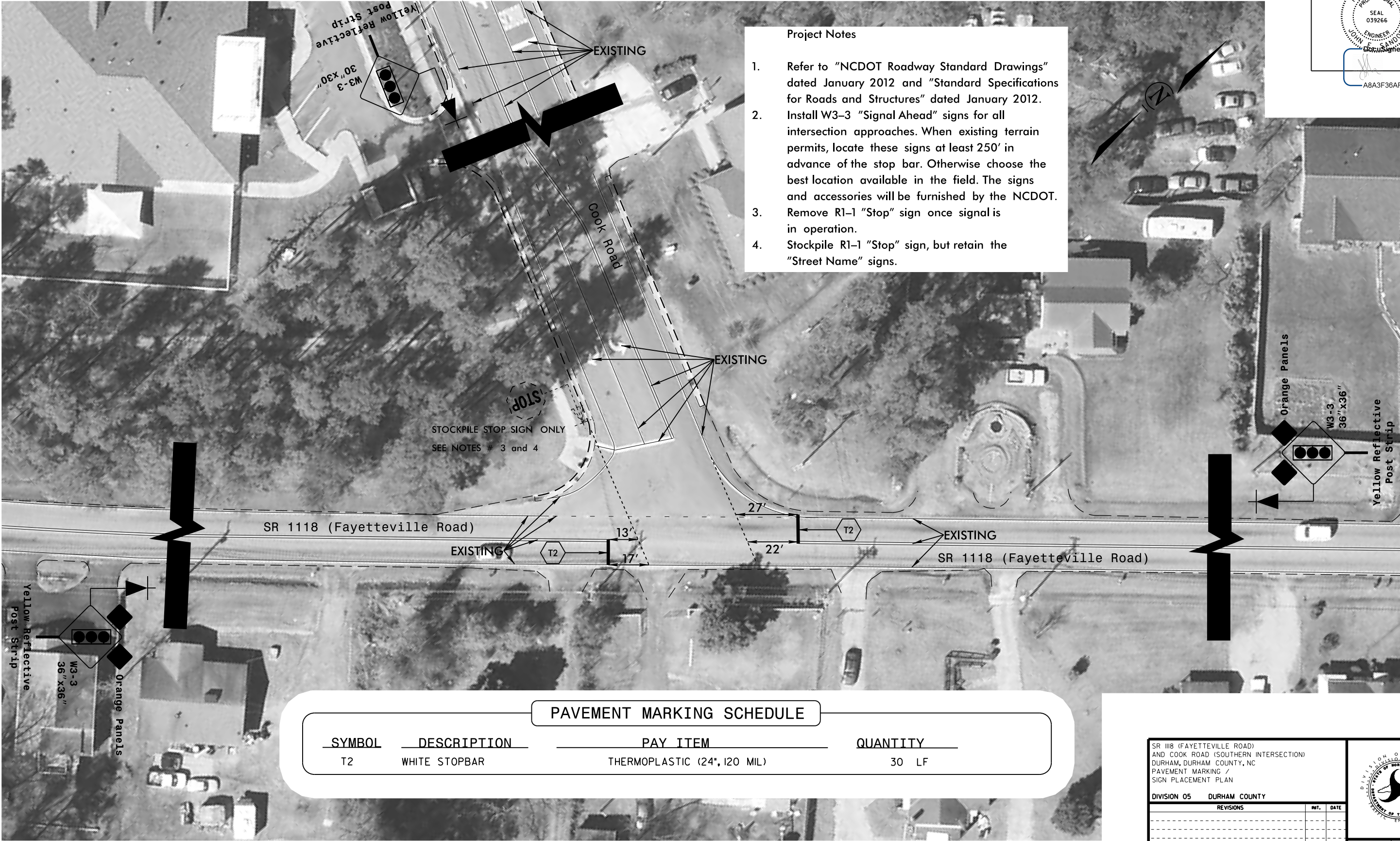
DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL



Project Notes

1. Refer to "NCDOT Roadway Standard Drawings" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Install W3-3 "Signal Ahead" signs for all intersection approaches. When existing terrain permits, locate these signs at least 250' in advance of the stop bar. Otherwise choose the best location available in the field. The signs and accessories will be furnished by the NCDOT.
3. Remove R1-1 "Stop" sign once signal is in operation.
4. Stockpile R1-1 "Stop" sign, but retain the "Street Name" signs.



PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM	QUANTITY
T2	WHITE STOPBAR	THERMOPLASTIC (24", 120 MIL)	30 LF

SR 1118 (FAYETTEVILLE ROAD)
AND COOK ROAD (SOUTHERN INTERSECTION)
DURHAM, DURHAM COUNTY, NC
PAVEMENT MARKING /
SIGN PLACEMENT PLAN

DIVISION 05 DURHAM COUNTY

REVISIONS	REV.	DATE

N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
DIVISION FIVE TRAFFIC ENGINEERING

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
N.C. DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEER

SCALE: 40' = 1" DATE: 7 APR 2017

PREPARED BY: S.J.L.
REVIEWED BY: J.E.S.
REVIEWED BY: