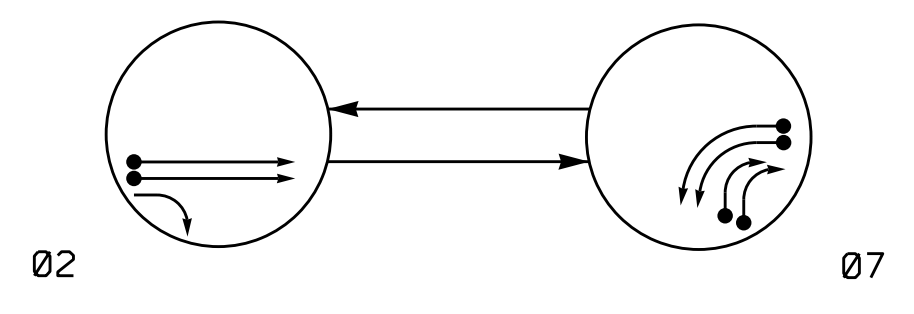


2 Phase Fully Actuated Fayetteville Signal System

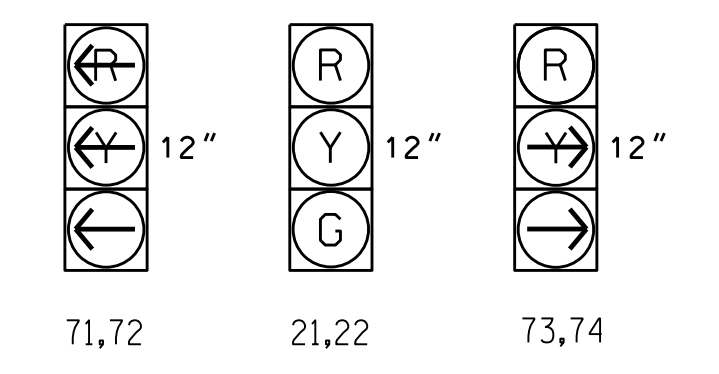
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND
 ● DETECTED MOVEMENT
 ○ UNDETECTED MOVEMENT (OVERLAP)
 - - - UNSIGNALIZED MOVEMENT
 - - - PEDESTRIAN MOVEMENT

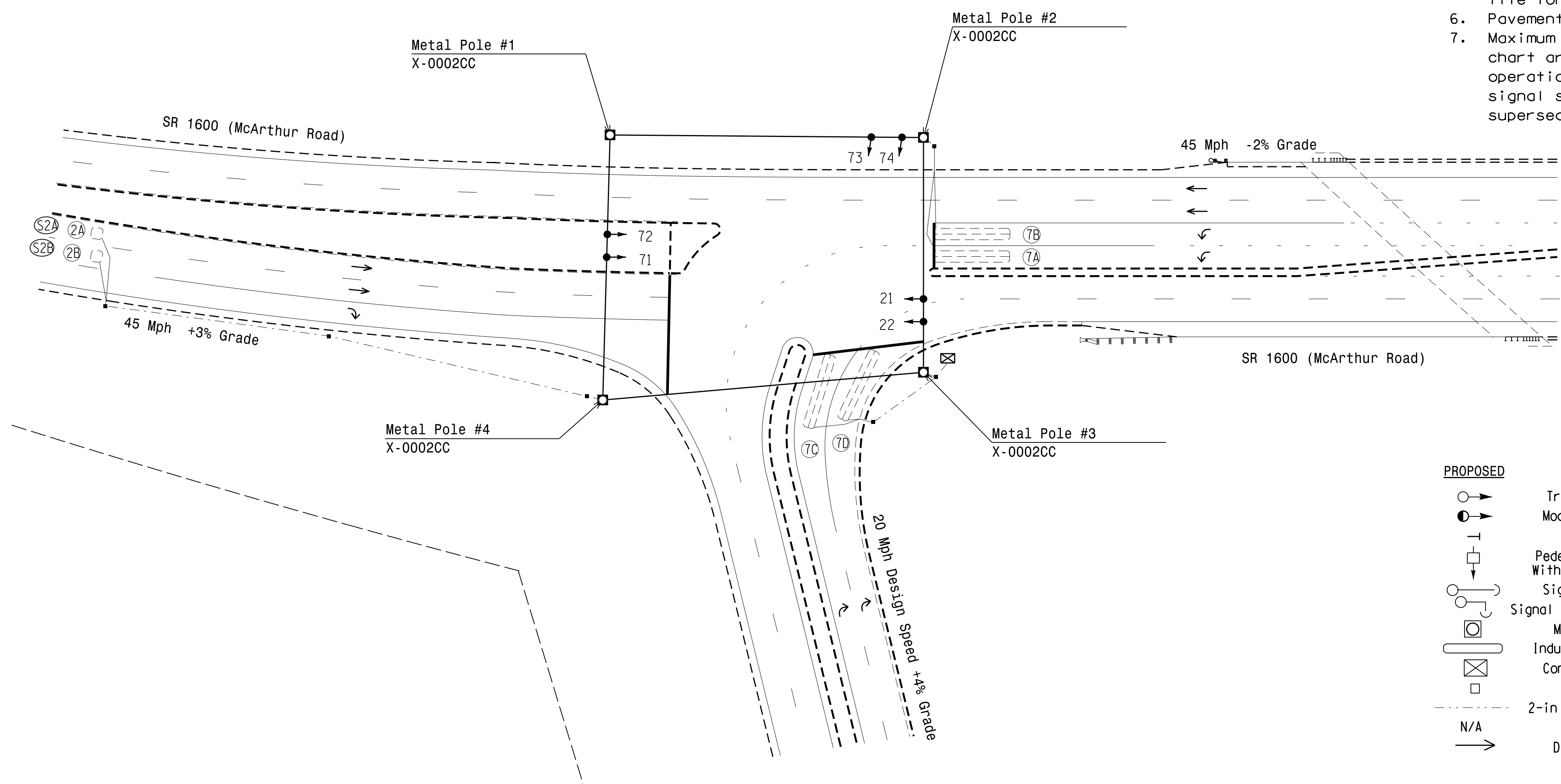
SIGNAL FACE	PHASE		
	2	7	F
21,22	G	R	Y
71,72	R	-	R
73,74	R	-	R

SIGNAL FACE I.D.
All Heads L.E.D.



ASC/3 DETECTOR INSTALLATION CHART											
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
2A/S2A	6X6	300	4	-	2	Yes	-	-	N	X	X
2B/S2B	6X6	300	4	-	2	Yes	-	-	N	X	X
7A	6X40	0	2-4-2	-	7	Yes	-	-	S	-	X
7B	6X40	0	2-4-2	-	7	Yes	-	-	S	-	X
7C	6X40	0	2-4-2	-	7	Yes	-	10	S	-	X
7D	6X40	0	2-4-2	-	7	Yes	-	10	S	-	X

- 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.
 - The cabinet should be designed to include an Auxiliary Output file for future use.
 - Pavement markings are existing.
 - Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



FEATURE	PHASE	
	2	7
Min Green *	12	7
Walk *	0	0
Ped Clear	0	0
Veh. Extension *	6.0	2.0
Max 1 *	90	30
Yellow	4.3	3.0
Red Clear	2.1	3.7
Actuations B4 Add *	0	-
Seconds / Actuation *	1.5	-
Max Initial *	34	-
Time Before Reduction *	15	-
Time To Reduce *	45	-
Minimum Gap	3.0	-
Locking Detector	X	-
Recall Position	VEH. RECALL	-
Dual Entry	-	-
Simultaneous Gap	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.

PROPOSED	EXISTING
	N/A

Signal Upgrade

SR 1600 (McArthur Road) at I-295 WB Ramp/Loop D

Division 6 Cumberland County Fayetteville

PLAN DATE: June 2016 REVIEWED BY: JPG

PREPARED BY: KPG, Jr. REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE 1"=40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER JASON P. GALLOWAY

Jason P. Galloway 6/3/2016

SIG. INVENTORY NO. 06-1305

Q3-1016-2016-16-03
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 kpgreed.in