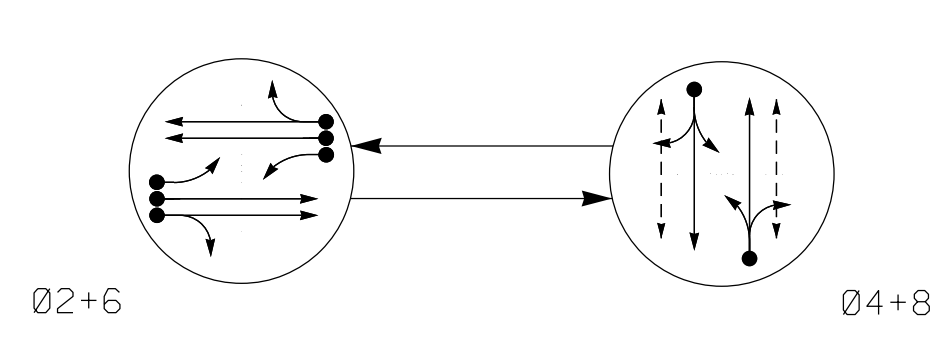
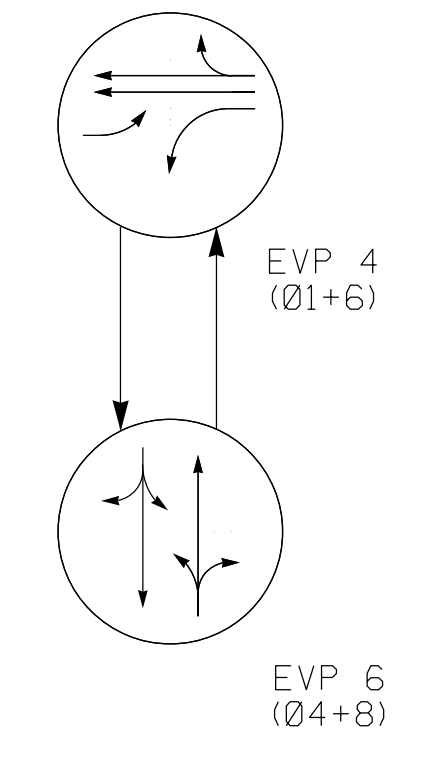


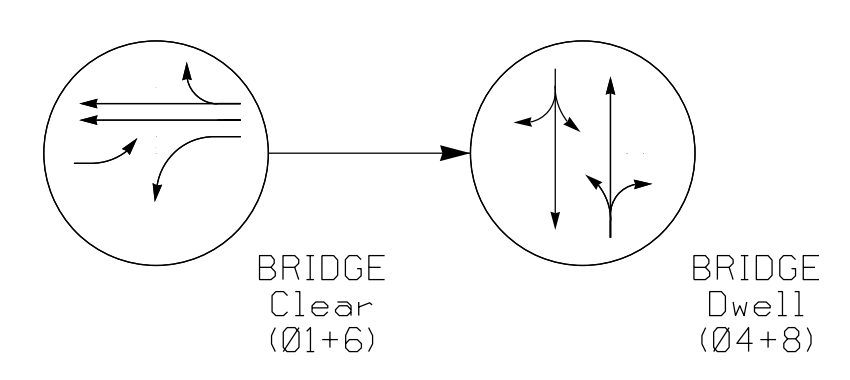
PHASING DIAGRAM



EV PREEMPT PHASES



BRIDGE PREEMPT (PRE 3)



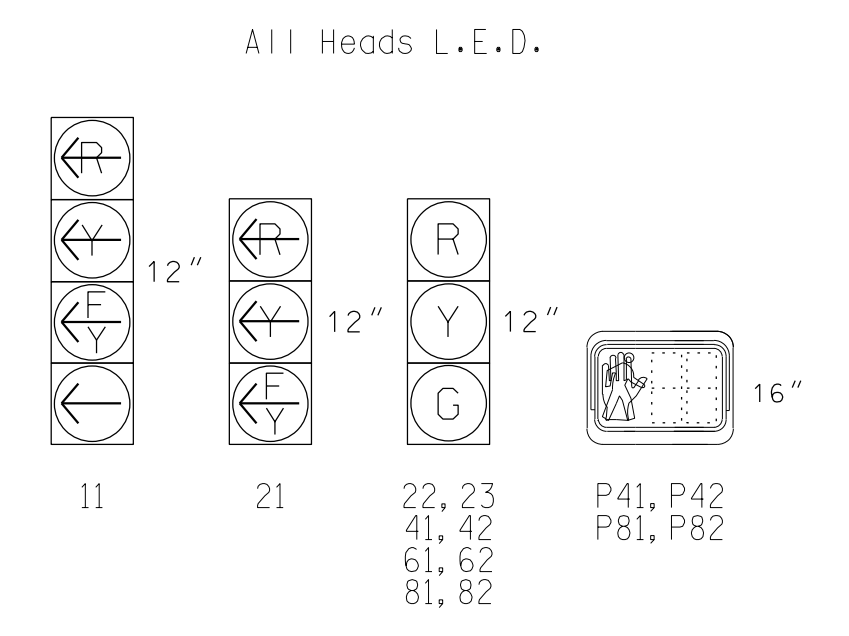
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	02+6	04+8	01+6	04+8	01+6	04+8	01+6	04+8
11	F	R	R	R	R	R	Y	Y
21	F	R	R	R	R	R	Y	Y
22, 23	G	R	R	R	R	R	Y	Y
41, 42	R	G	R	G	R	G	R	Y
61, 62	G	R	G	R	G	R	Y	Y
81, 82	R	G	R	G	R	G	R	Y
P41, P42	DW	W	DW	DW	DW	DW	DRK	DRK
P81, P82	DW	W	DW	DW	DW	DW	DRK	DRK

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	SYSTEM LOOP	NEW CARD	
2A	6x6	70	*	-	2	Yes	-	-	-	S	-	X
2B	6x6	70	*	-	2	Yes	-	-	-	S	-	X
2C	6x40	0	*	-	2	Yes	-	-	-	S	-	X
4A	6x40	0	*	-	4	Yes	-	5	-	S	-	X
6A	6x6	70	*	-	6	Yes	-	-	-	S	-	X
6B	6x6	70	*	-	6	Yes	-	-	-	S	-	X
6C	6x40	0	*	-	6	Yes	-	-	-	S	-	X
8A	6x40	0	*	-	8	Yes	-	5	-	S	-	X
S05	6x6	+80	*	-	-	-	-	-	-	N	X	X
S06	6x6	+80	*	-	-	-	-	-	-	N	X	X

ASC/3 EV PREEMPT

FUNCTION	PRE 4	PRE 6
Exit Phase(s)	2,6	2,6
Preempt Override	OFF	OFF
Delay Time	0	0
Ped Clear Through Yellow	Y	Y
Terminate Phases	N	N
Entrance Walk	255*	255*
Entrance Ped Clear	255*	255*
Entrance Min Green	1	1
Entrance Yellow Change	25.5*	25.5*
Entrance Red Clear	25.5*	25.5*
Minimum Dwell Time	10	7
Preempt Input Extension Time	2	2
Preempt Max Time	120	120
Exit Yellow Change	25.5*	25.5*
Exit Red Clear	25.5*	25.5*

* Allows normal phase times to be used.

ASC/3 TIMING CHART

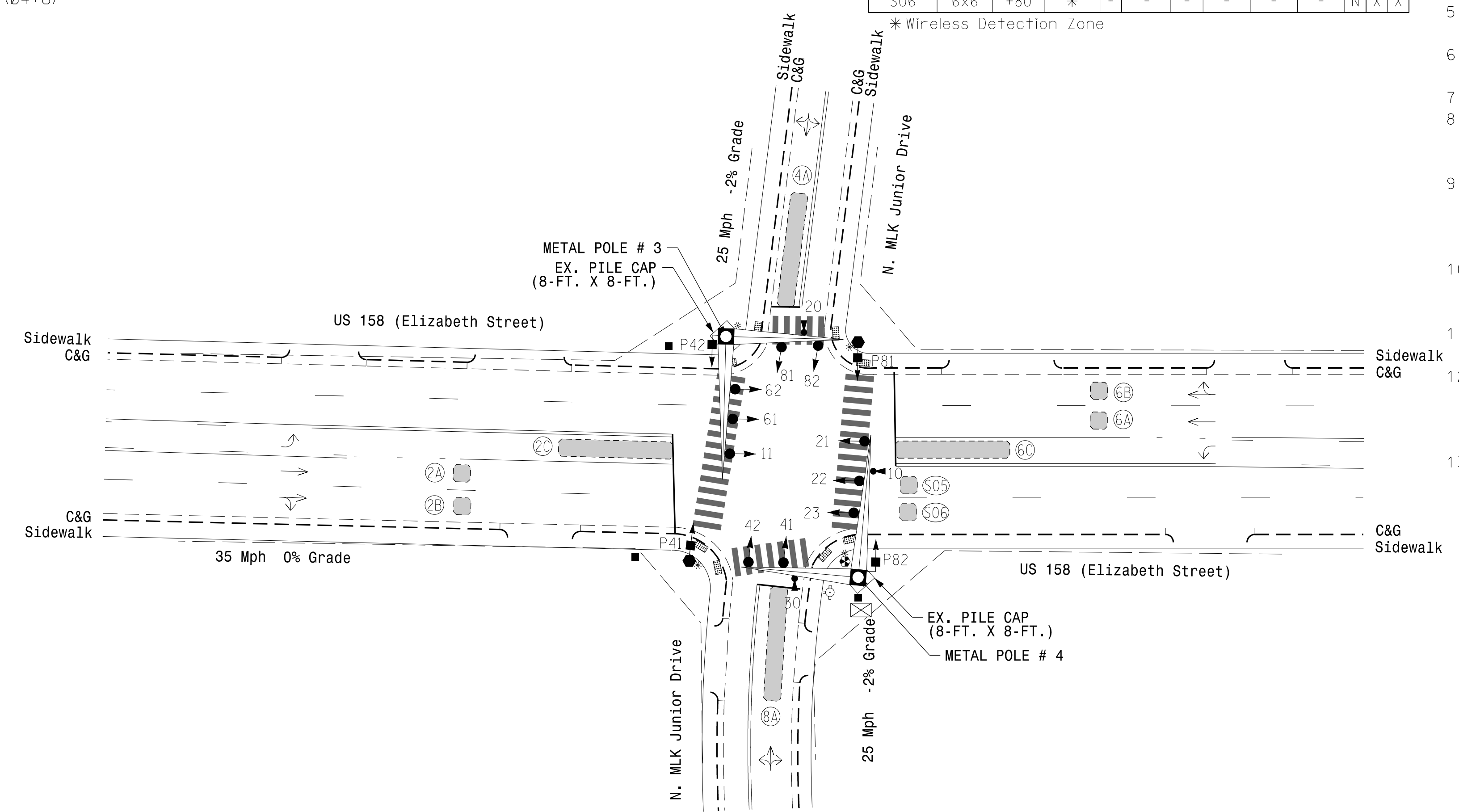
FEATURE	PHASE				
	1	2	4	6	8
Min Green *	7	10	7	10	7
Delayed Green *	-	-	7	-	7
Walk *	0	0	7	0	7
Ped Clear	0	0	14	0	13
Veh. Extension *	2.0	3.0	2.0	3.0	2.0
Max 1 *	15	30	15	30	15
Yellow	3.0	3.8	3.3	3.8	3.3
Red Clear	2.1	1.3	2.2	1.3	2.1
Actuations B4 Add *	-	-	-	-	-
Seconds / Actuation *	-	-	-	-	-
Max Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Locking Detector	-	X	-	X	-
Recall Position	-	VEH. RECALL	-	VEH. RECALL	-
Dual Entry	-	-	X	-	X
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.

ASC/3 BRIDGE PREEMPT

FUNCTION	PRE 3
Exit Phase(s)	2,6
Preempt Override	ON
Delay Time	0
Ped Clear Through Yellow	N
Terminate Phases	N
Bridge Clear Reserve	Y
Entrance Walk	255*
Entrance Ped Clear	255*
Entrance Min Green	10
Entrance Yellow Change	25.5*
Entrance Red Clear	25.5*
Bridge Clear Min Green	25
Bridge Clear Yellow Change	3.8
Bridge Clear Red Clear	1.3
Min Dwell Time	10*
Exit Yellow Change	25.5*
Exit Red Clear	25.5*

* Time defaults to time used for phase during normal operation.



LEGEND

- | PROPOSED | EXISTING |
|---------------------------------|---------------------------------|
| ○→ Traffic Signal Head | ●→ Traffic Signal Head |
| ○→ Modified Signal Head | N/A |
| ○→ Pedestrian Signal Head | ○→ Pedestrian Signal Head |
| * With Push Button & Sign | * With Push Button & Sign |
| ○ Type II Signal Pedestal | ○ Type II Signal Pedestal |
| ○ Type I Pushbutton Post | ○ Type I Pushbutton Post |
| ○ Signal Pole with Guy | ○ Signal Pole with Guy |
| ○ Signal Pole with Sidewalk Guy | ○ Signal Pole with Sidewalk Guy |
| ⊠ Wireless Detection Zone | ⊠ Wireless Detection Zone |
| ⊠ Controller & Cabinet | ⊠ Controller & Cabinet |
| ⊠ Junction Box | ⊠ Junction Box |
| --- 2-in Underground Conduit | --- 2-in Underground Conduit |
| N/A Right of Way | N/A Right of Way |
| → Directional Arrow | → Directional Arrow |
| N/A Fire Hydrant | N/A Fire Hydrant |
| ○ Metal Pole with Mastarm | ○ Metal Pole with Mastarm |
| ○ Optical Detector | ○ Optical Detector |
| N/A Truncated Dome | N/A Truncated Dome |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signal Upgrade

Prepared for the Offices of:

 Plans Prepared By:

 DRMP, Inc.
 8000 Regency Parkway, Suite 175
 Cary, NC 27519
 NC License No. C-2213 (919) 650-1038

US 158 (Elizabeth Street) at N. MLK Junior Drive

Division 1 Pasquotank County Elizabeth City

PLAN DATE: February 2018 REVIEWED BY: AJ Davis

PREPARED BY: JA Le REVIEWED BY: LM Moon

REVISIONS: INIT. DATE

SCALE: 1"=30'

SEAL

 Lisa M. Moon
 9/20/2018
 SIG. INVENTORY NO. 01-0008