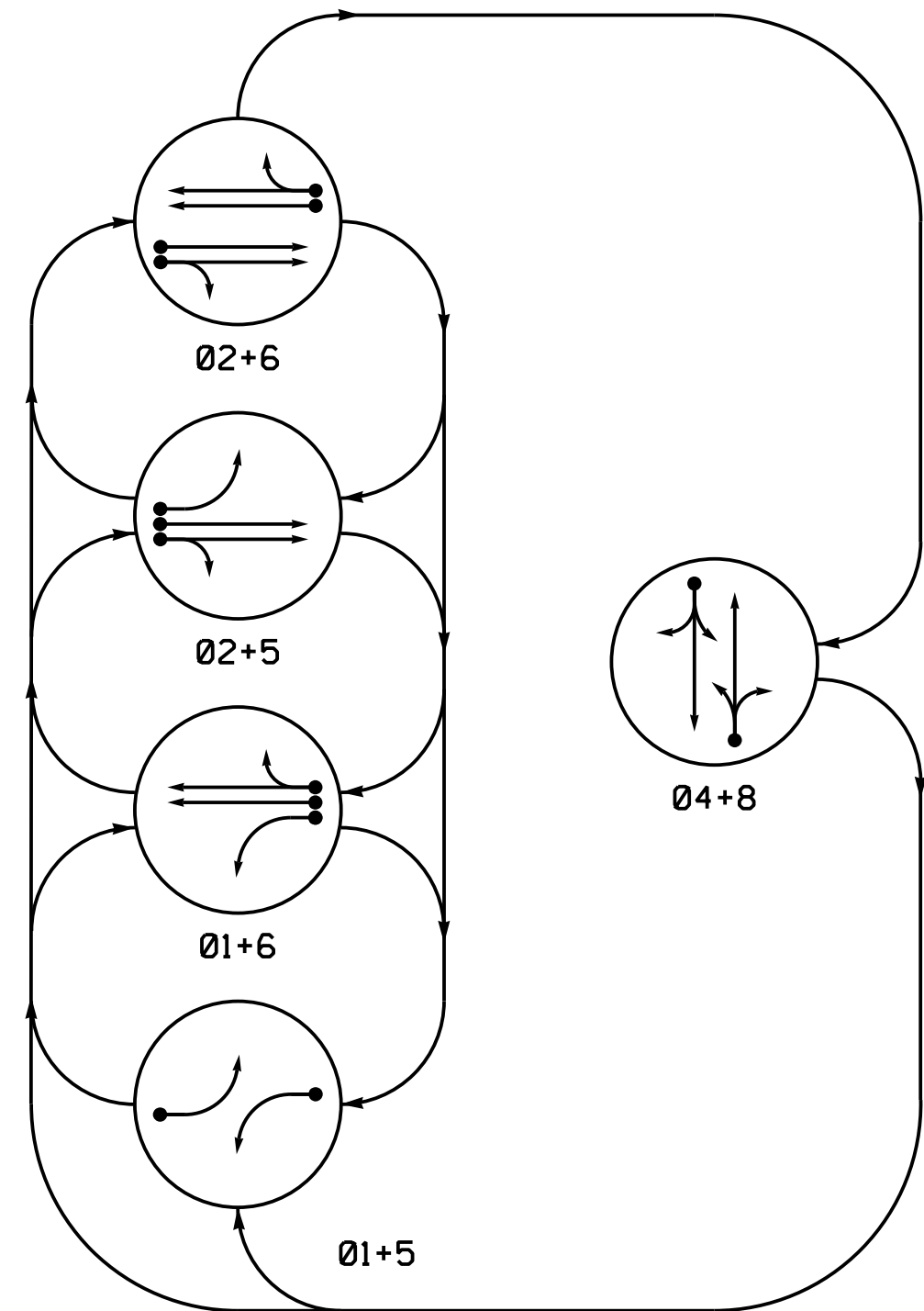


PHASING DIAGRAM



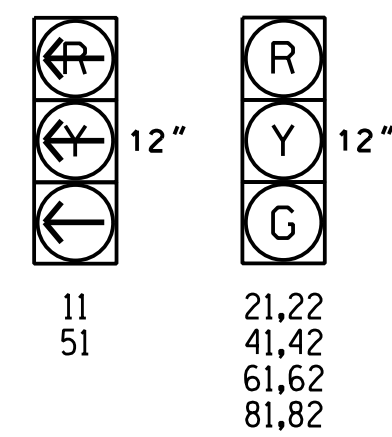
PHASING DIAGRAM DETECTION LEGEND

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

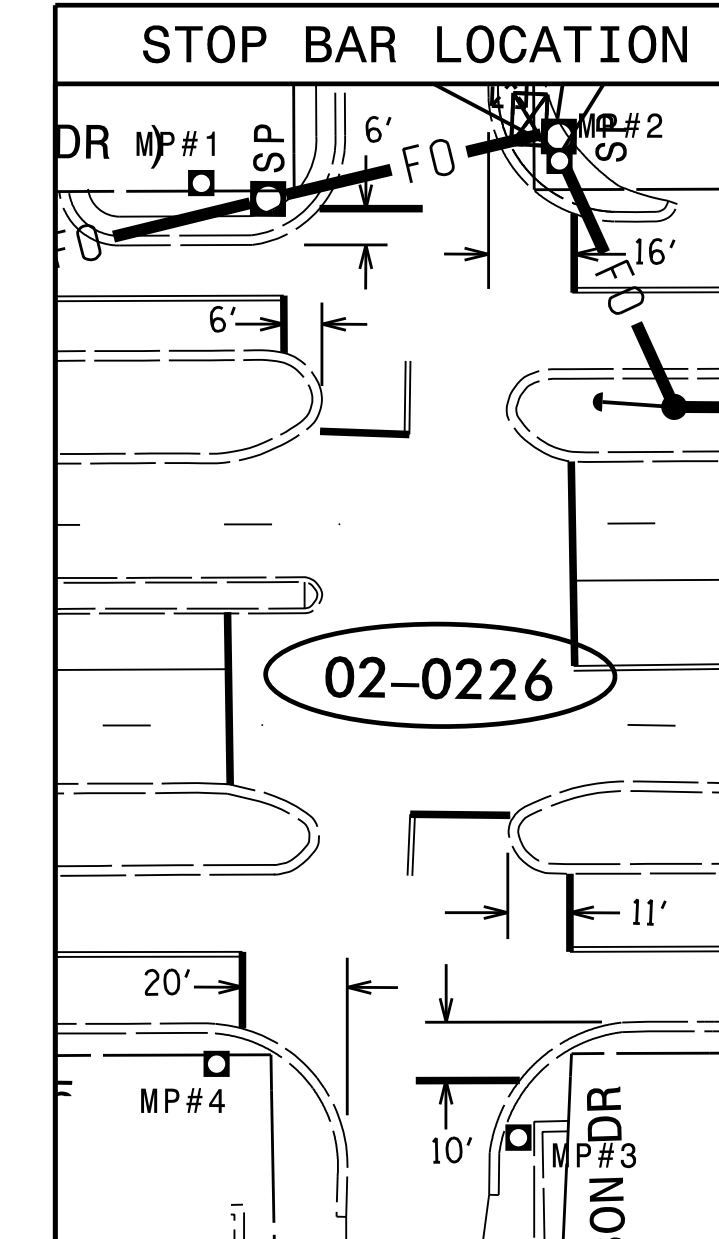
SIGNAL FACE	PHASE				
	01+5	01+6	02+5	02+6	04+8
11	---	---	---	---	---
21,22	R	R	G	G	R
41,42	R	R	R	R	G
51	---	---	---	---	---
61,62	R	G	R	G	R
81,82	R	R	R	R	G

SIGNAL FACE I.D.

All Heads L.E.D.



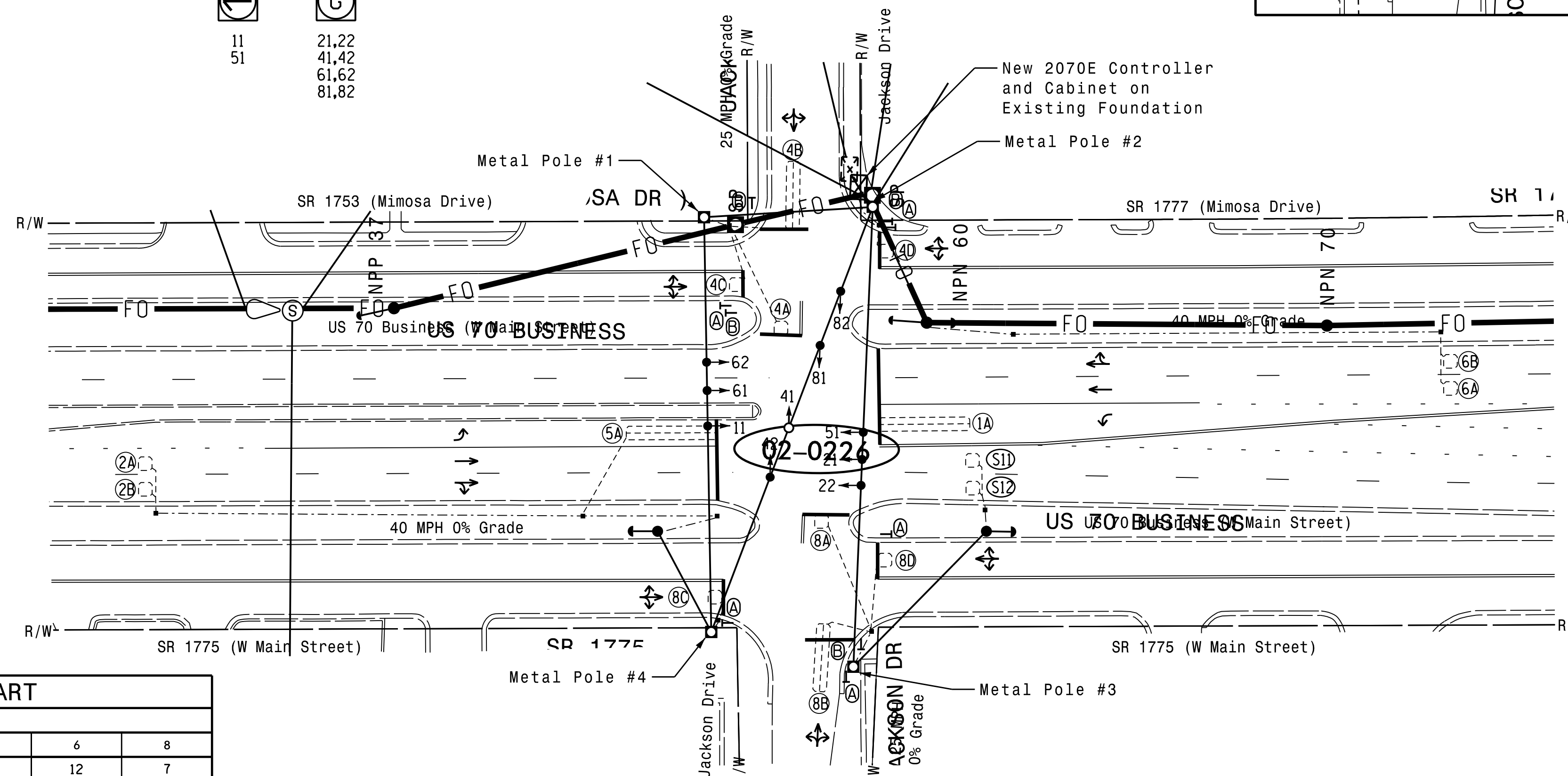
INDUCTIVE LOOPS				DETECTOR PROGRAMMING								
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	-	-	Y
2A	6X6	250	4	-	2	Y	Y	-	-	-	-	Y
2B	6X6	250	4	-	2	Y	Y	-	-	-	-	Y
4A	6X6	0	4	-	4	Y	Y	-	-	5	-	Y
4B	6X30	45	2-4-2	-	4	Y	Y	-	1.0	5	-	Y
4C	6X6	0	4	-	4	Y	Y	-	2.0	15	-	Y
4D	6X6	0	4	-	4	Y	Y	-	2.0	15	-	Y
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	-	-	Y
6A	6X6	255	4	-	6	Y	Y	-	-	-	-	Y
6B	6X6	255	4	-	6	Y	Y	-	-	-	-	Y
8A	6X6	0	4	-	8	Y	Y	-	-	5	-	Y
8B	6X30	+5	2-4-2	-	8	Y	Y	-	1.0	5	-	Y
8C	6X6	0	4	-	8	Y	Y	-	2.0	15	-	Y
8D	6X6	0	4	-	8	Y	Y	-	2.0	15	-	Y
S11	6X6	+110	4	-	-	-	-	-	-	-	Y	Y
S12	6X6	+110	4	-	-	-	-	-	-	-	Y	Y



5 Phase Fully Actuated Havelock US 70 Business CLS

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or 5 may be lagged.
- Set all detector units to presence mode.
- 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.
- The cabinet should be designed to include Auxiliary Output file for future use.
- Repaint pavement markings as shown.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset #0226



FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0
Max Green 1 *	20	75	25	15	75	25
Yellow Clearance	3.0	4.2	3.2	3.0	4.2	3.2
Red Clearance	2.1	1.2	2.2	2.3	1.0	2.2
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	1.5	-
Max Variable Initial *	-	29	-	-	30	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	45	-	-	45	-
Minimum Gap	-	3.0	-	-	3.0	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON	ON

* 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	LEGEND	EXISTING
○ →	Traffic Signal Head	● →
○ →	Modified Signal Head	N/A
○ →	Sign	N/A
○ →	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	→
○ →	Metal Strain Pole	○ →
○ →	"STOP" Sign (R1-1)	○ →
○ →	"DO NOT BLOCK INTERSECTION" Sign (R10-7)	○ →

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	US 70 Business (W Main Street) at Jackson Drive		
	Division 02 Craven Co. Havelock	PLAN DATE: March 2018 REVIEWED BY: A.D. Klinskiak	
SCALE 0 40 1"=40'	REVISIONS	INITI. DATE	DATE 12/7/2018

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