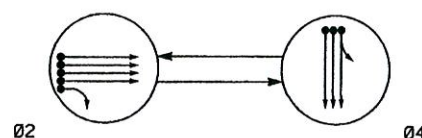


PHASING DIAGRAM

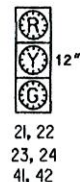


PHASING DIAGRAM DETECTION LEGEND  
● DETECTED MOVEMENT  
○ UNDETECTED MOVEMENT (OVERLAP)  
--- UNSIGNALIZED MOVEMENT  
--- PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE		
	02	04	FLASH
21, 22, 23, 24	G	R	Y
41, 42	R	G	R

SIGNAL FACE I.D.

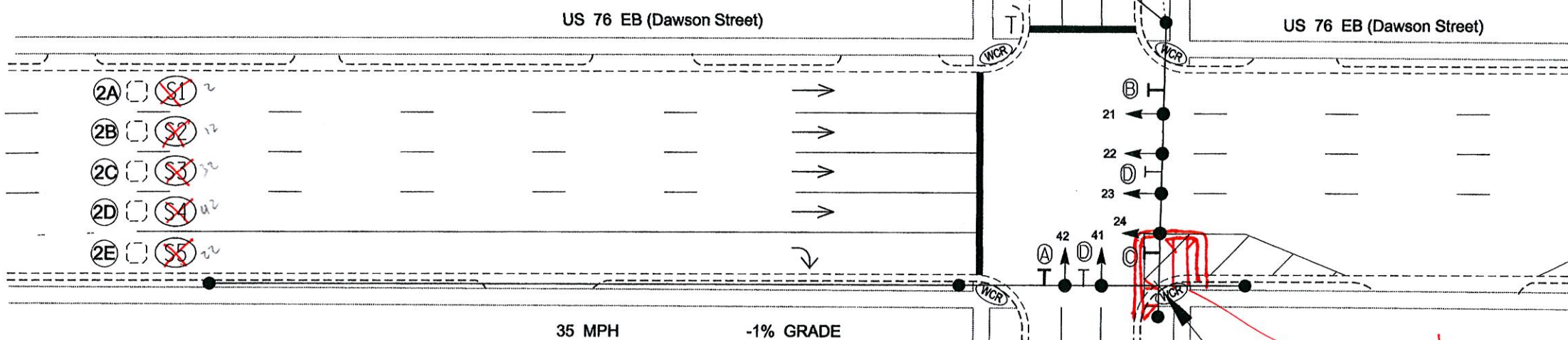
Denotes L.E.D.



2070L LOOP & DETECTOR INSTALLATION

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
2A/X	6X6	250	Existing	-	2	Y	Y	-	-	-	Y Y
2B/X	6X6	250	Existing	-	2	Y	Y	-	-	-	Y Y
2C/X	6X6	250	Existing	-	2	Y	Y	-	-	-	Y Y
2D/X	6X6	250	Existing	-	2	Y	Y	-	-	-	Y Y
2E/X	6X6	250	Existing	-	2	Y	Y	-	-	-	Y Y
4A,4B,4C	6X6	70	Existing	-	4	Y	Y	-	-	-	- Y

SYSTEM DETECTORS		
System Detector ID Number	Signal System ID Number	Control Zone
S1	0028-01	4
S2	0028-02	4
S3	0028-03	4
S4	0028-04	4
S5	0028-05	4



MIN SPLIT 15 13

FEATURE	PHASE	
	2	4
Min Green 1 *	10	7
Extension 1 *	6.0	(3.0)
Max Green 1 *	30	15
Yellow Clearance	3.9	3.8
Red Clearance	1.0	1.5
Walk 1 *	-	-
Don't Walk 1	-	-
Seconds Per Actuation *	1.3	-
Max Variable Initial *	24	-
Time Before Reduction *	10	(-)
Time To Reduce *	30	(-)
Minimum Gap	3.0	-
Recall Mode	MIN RECALL	-
Vehicle Call Memory	YELLOW	YELLOW
Dual Entry	-	-
Simultaneous Gap	ON	ON

\* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

2 Phase Fully Actuated (Wilmington Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated July 2006 and "Standard Specifications for Roads and Structures" dated July 2006.
- 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.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Signal system data: Controller Asset #: 0028.

LEGEND

PROPOSED	EXISTING
Traffic Signal Head	N/A
Modified Signal Head	N/A
Sign	N/A
Pedestrian Signal Head With Push Button & Sign	N/A
Signal Pole with Guy	N/A
Signal Pole with Sidewalk Guy	N/A
Inductive Loop Detector	N/A
Controller & Cabinet	N/A
Junction Box	N/A
2-In Underground Conduit	N/A
Right of Way	N/A
Directional Arrow	N/A
No Right Turn Sign (R3-1)	N/A
No Left Turn Sign (R3-2)	N/A
Right Arrow "ONLY" Sign (R3-SR)	N/A
Street Sign	N/A

Signal Upgrade

REVISION/SEAL	Prepared in the Office of	US 76 EB (Dawson Street) at SR 1218 (S. 16th Street)	SEAL
		Division 3 New Hanover County Wilmington	Not a certified document as to the Original Document but Only as to the Revisions - This document originally Issued and sealed by Robert J. Ziemba, 026486 on 05-01-2008. This document is only certified as to the revisions.
DATE: 5/4/2009	SCALE: 1"=20'	PLAN DATE: December 2007	SIGNATURE: _____ DATE: _____
		PREPARED BY: Sterling	REVIEWED BY: _____
		REVISIONS	