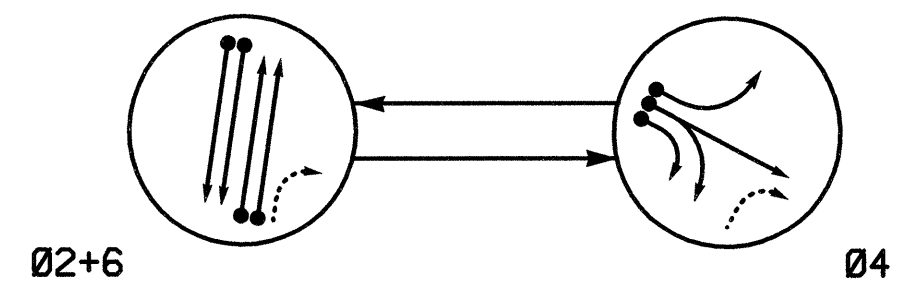


PHASING DIAGRAM

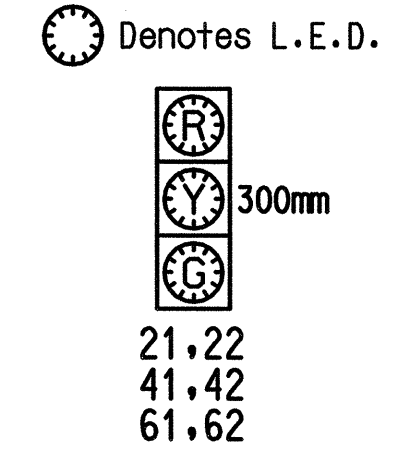


PHASING DIAGRAM DETECTION LEGEND
 ←●→ DETECTED MOVEMENT
 ←---→ UNDETECTED MOVEMENT (OVERLAP)
 ←---→ UNSIGNALIZED MOVEMENT
 ←---→ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02+6	04	F (EOT)
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y

SIGNAL FACE I.D.



2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (M)	DISTANCE FROM STOPBAR (M)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CAB
2A	1.8x1.8	130	6	Y	2	Y	Y	-	-	-	-	Y
2B	1.8x1.8	130	6	Y	2	Y	Y	-	-	-	-	Y
4A	1.8x1.2	0	2-4-2	Y	4	Y	Y	-	-	-	-	Y
4B	1.8x1.2	0	2-4-2	Y	4	Y	Y	-	-	10	-	Y
4C	1.8x1.2	0	2-4-2	Y	4	Y	Y	-	-	15	-	Y
6A	1.8x1.8	130	6	Y	6	Y	Y	-	-	-	-	Y
6B	1.8x1.8	130	6	Y	6	Y	Y	-	-	-	-	Y

2 Phase Fully Actuated (Isolated)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- 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.

PLAN QUANTITIES

Pay Item	Meters
Signal Cable	175
Messenger Cable	0
Loop Lead-in Cable	535

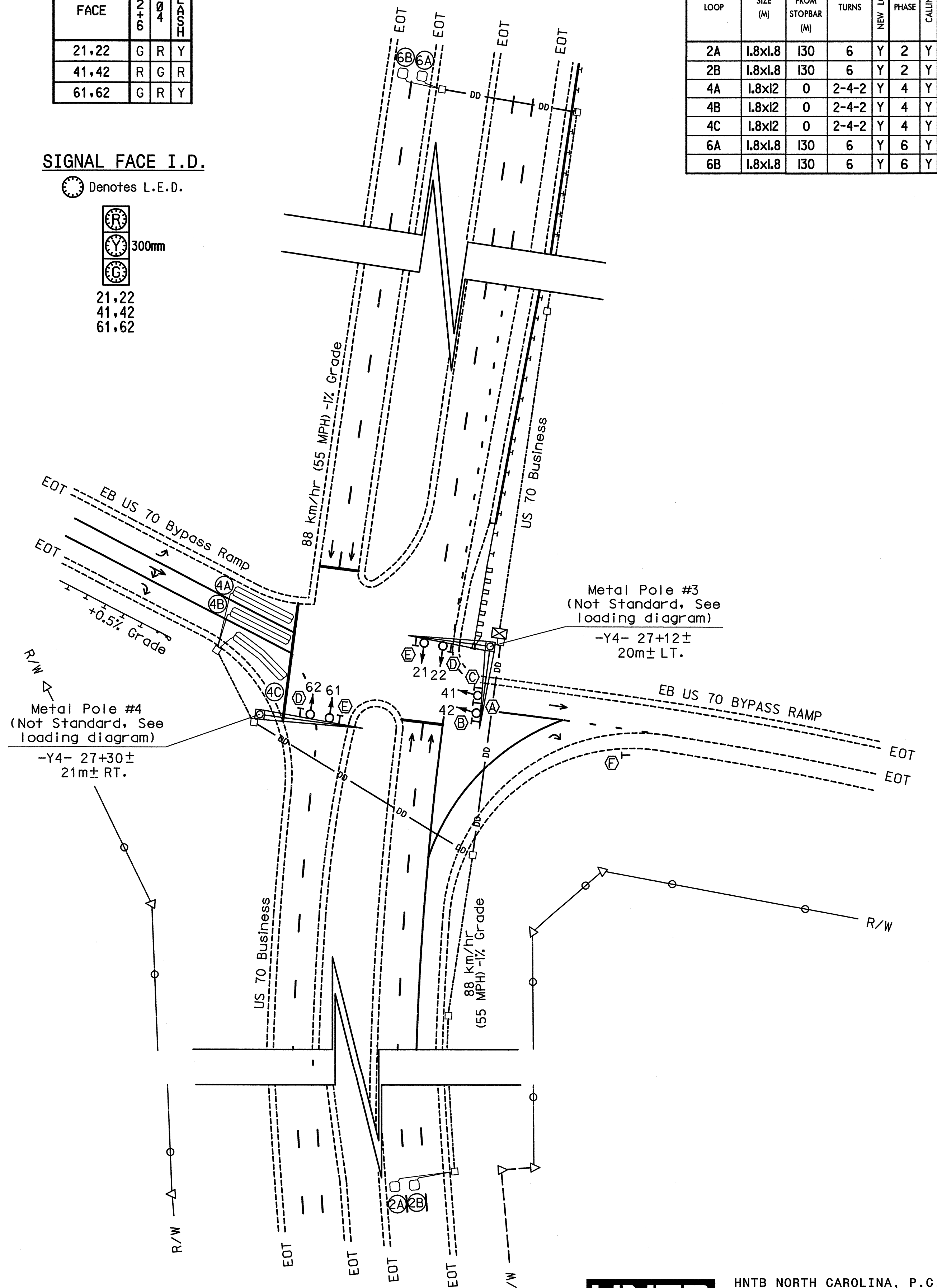
LEGEND

PROPOSED	EXISTING
○→ Traffic Signal Head	●→ Traffic Signal Head
○→ Modified Signal Head Sign	N/A
○→ Pedestrian Signal Head With Push Button & Sign	○→ Pedestrian Signal Head
○→ Signal Pole with Guy	○→ Signal Pole with Sidewalk Guy
○→ Signal Pole with Sidewalk Guy	○→ Signal Pole with Sidewalk Guy
○→ Inductive Loop Detector	○→ Inductive Loop Detector
○→ Controller & Cabinet	○→ Controller & Cabinet
○→ Junction Box	○→ Junction Box
○→ 50mm Underground Conduit	○→ 50mm Underground Conduit
N/A	△ Right of Way with Marker
→	→ Directional Arrow
N/A	○ Fence
N/A	○ Guardrail
○→ Directional Drill	N/A
○→ Metal Pole with Mast Arm	○→ Metal Pole with Mast Arm
○→ Combined Through and Right Arrow Sign (R3-6R)	N/A
○→ Right Arrow "ONLY" Sign (R3-5R)	N/A
○→ Left Arrow "ONLY" Sign (R3-5L)	N/A
○→ No Right Turn Sign (R3-1)	N/A
○→ No Left Turn Sign (R3-2)	N/A
○→ "YIELD" Sign (R1-2)	N/A

2070L TIMING CHART

FEATURE	PHASE		
	2	4	6
Min Green 1 *	14	7	14
Extension 1 *	6.0	2.0	6.0
Max Green 1 *	90	30	90
Yellow Clearance	5.3	3.8	5.3
Red Clearance	1.4	2.4	1.4
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	1.5	-	1.5
Max Variable Initial *	46	-	46
Time Before Reduction *	15	-	15
Time To Reduce *	30	-	30
Minimum Gap	3.4	-	3.4
Recall Mode	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	YELLOW
Dual Entry	-	-	-
Simultaneous Gap	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.



New Signal Design

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609

US 70 Business At US 70 Bypass EB Ramps

Division 04 Johnston County S of Clayton
 PLAN DATE: November 2004 REVIEWED BY: S.T. Franklin
 PREPARED BY: T.R. Terrell REVIEWED BY: C.A. Johnson

SEAL

 S.T. Franklin
 1-10-05
 DATE
 SIG. INVENTORY NO. 04-1316

SCALE: 1:500