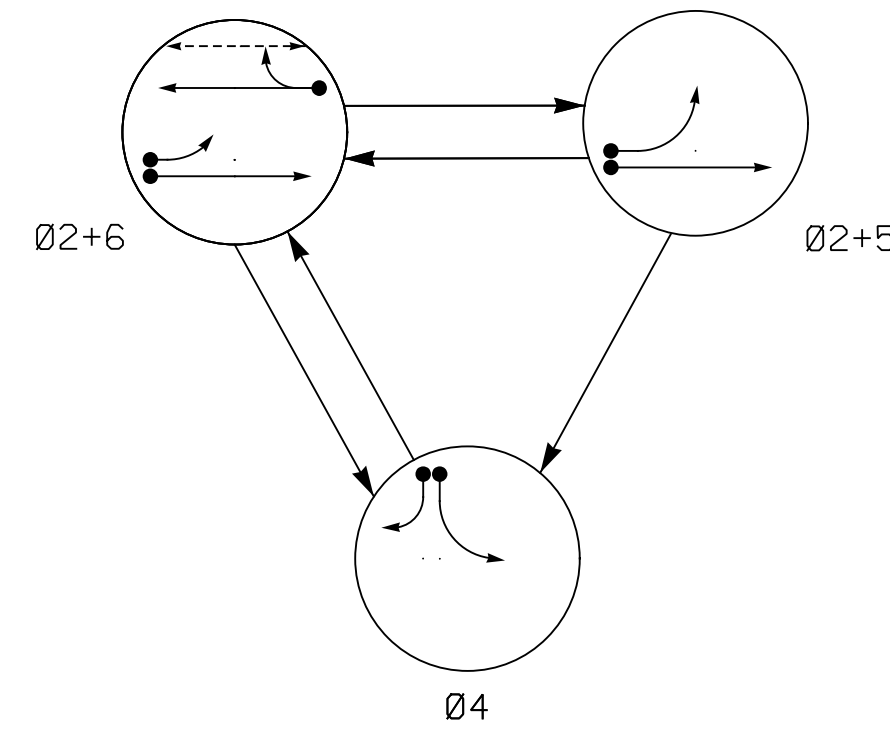


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- ◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄ UNSIGNALIZED MOVEMENT
- ◄ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	Ø 2+5	Ø 2+6	Ø 4	FLASH
21,22	G	G	R	Y
41	R	R	F	R
42,43	R	R	G	R
51	F	F	R	Y
61,62	R	G	R	Y
P61,P62	DW	W	DW	DRK

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	TYPE	SYSTEM LOOP	NEW CARD
2A	6X6	300	*	-	2	Yes	-	-	X	N	-	-
4A	6X40	0	*	-	4	Yes	-	3	-	N	-	-
4B	6X40	0	*	-	4	Yes	-	10	-	N	-	-
5A	6X40	0	*	-	5	Yes	-	15	-	N	-	-
6A	6X6	300	*	-	2	Yes	-	3	-	G	-	-
					6	Yes	-	-	X	N	-	-

* Video Detection Zone

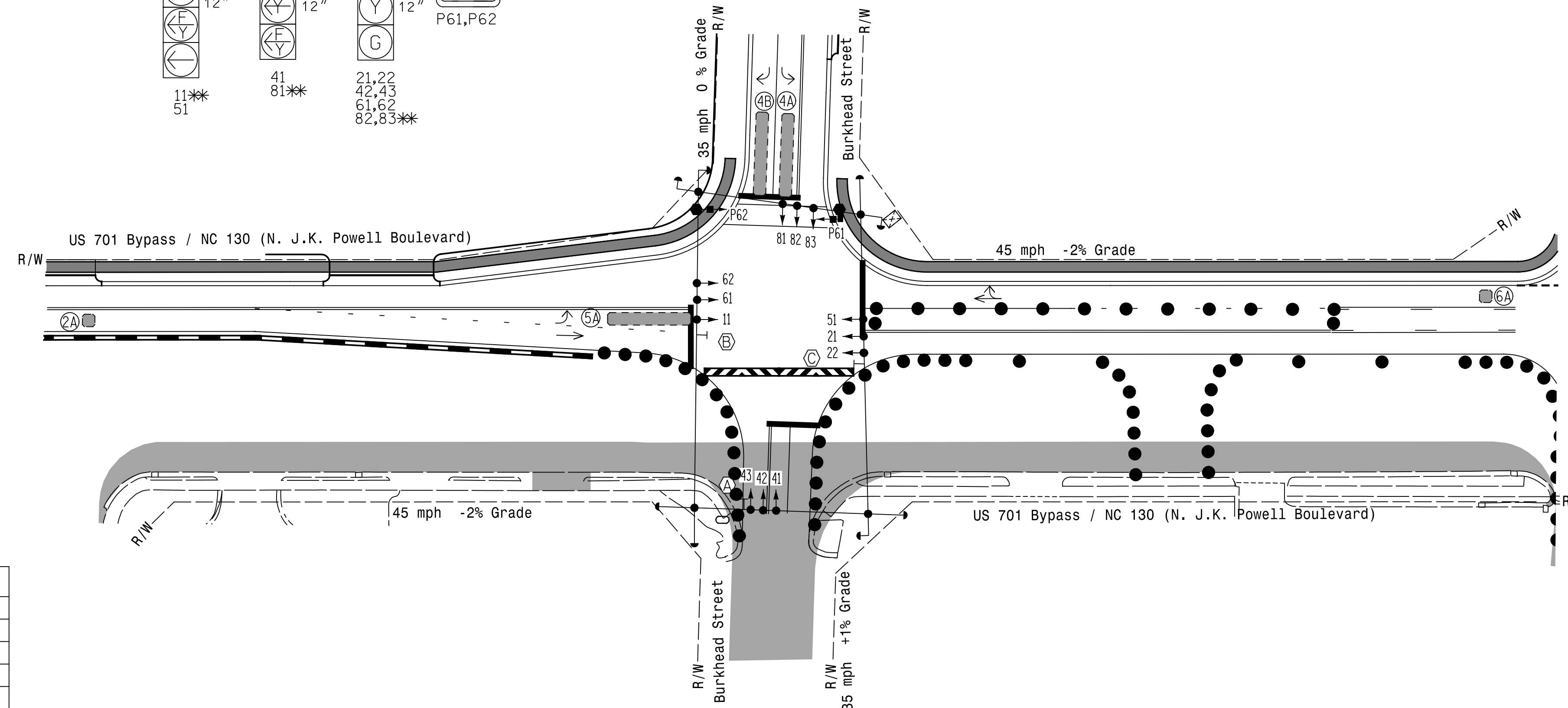
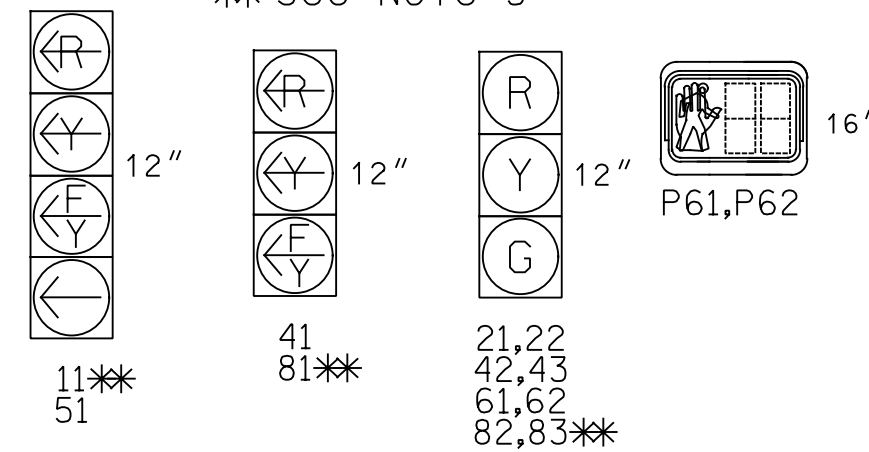
3 Phase Fully Actuated SYSTEM # 10605

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may lead.
4. Reposition existing signal heads 21, 22, 51, 61, and 62.
5. Bag and disconnect signal heads 11, 81, 82, and 83.
6. Set all detection zones to presence mode.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.

SIGNAL FACE I.D.

All Heads L.E.D. * See Note 5



ASC/3 TIMING CHART

FEATURE	PHASE			
	2	4	5	6
Min Green *	12	7	7	12
Walk *	0	0	0	7
Ped Clear	0	0	0	10
Veh. Extension *	6.0	2.0	2.0	6.0
Max I *	90	20	15	90
Yellow	4.7	3.0	3.0	4.7
Red Clear	1.0	2.4	2.4	1.0
Actuations B4 Add *	0	-	-	0
Seconds /Actuation *	2.5	-	-	2.5
Max Initial *	34	-	-	34
Time Before Reduction *	15	-	-	15
Time To Reduce *	30	-	-	30
Minimum Gap	3.0	-	-	3.0
Locking Detector	-	-	-	-
Recall Position	VEH. RECALL	-	-	VEH. RECALL
Dual Entry	-	-	-	-
Simultaneous Gap	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.

LEGEND

- | PROPOSED | EXISTING |
|--|--|
| ○ Traffic Signal Head | ● Traffic Signal Head |
| ○ Modified Signal Head | N/A |
| □ Sign | □ Sign |
| □ Pedestrian Signal Head With Push Button & Sign | □ Pedestrian Signal Head With Push Button & Sign |
| □ Signal Pole with Guy | □ Signal Pole with 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 |
| --- 2-in Underground Conduit | --- 2-in Underground Conduit |
| N/A Right of Way | --- Right of Way |
| → Directional Arrow | → Directional Arrow |
| ▬ Video Detection Area | ▬ Video Detection Area |
| ▬ BARRICADE (TYPE III) | ▬ BARRICADE (TYPE III) |
| ▬ Construction Zone | N/A |
| ▬ Video Detection Zone | ▬ Video Detection Zone |
| ● Drums | N/A |
| Ⓐ "RIGHT ARROW ONLY" Sign (R3-5R) | Ⓐ "RIGHT ARROW ONLY" Sign (R3-5R) |
| Ⓑ "NO LEFT TURN" Sign (R3-2) | Ⓑ "NO LEFT TURN" Sign (R3-2) |
| Ⓒ "NO RIGHT TURN" Sign (R3-1) | Ⓒ "NO RIGHT TURN" Sign (R3-1) |
| ○ Type II Signal Pedestal | ● Type II Signal Pedestal |

Signal Upgrade - Temporary Design 3 - (TMP Phase 1A)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

US 701 Bypass/NC 130 (N. J.K. Powell Boulevard) at Burkhead Street

Division 06 Columbus County Whiteville

PLAN DATE: November 2019 REVIEWED BY: G.G. Murr, Jr.

PREPARED BY: M. Ishak REVIEWED BY:

REVISIONS	INIT.	DATE

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5/13/2020
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