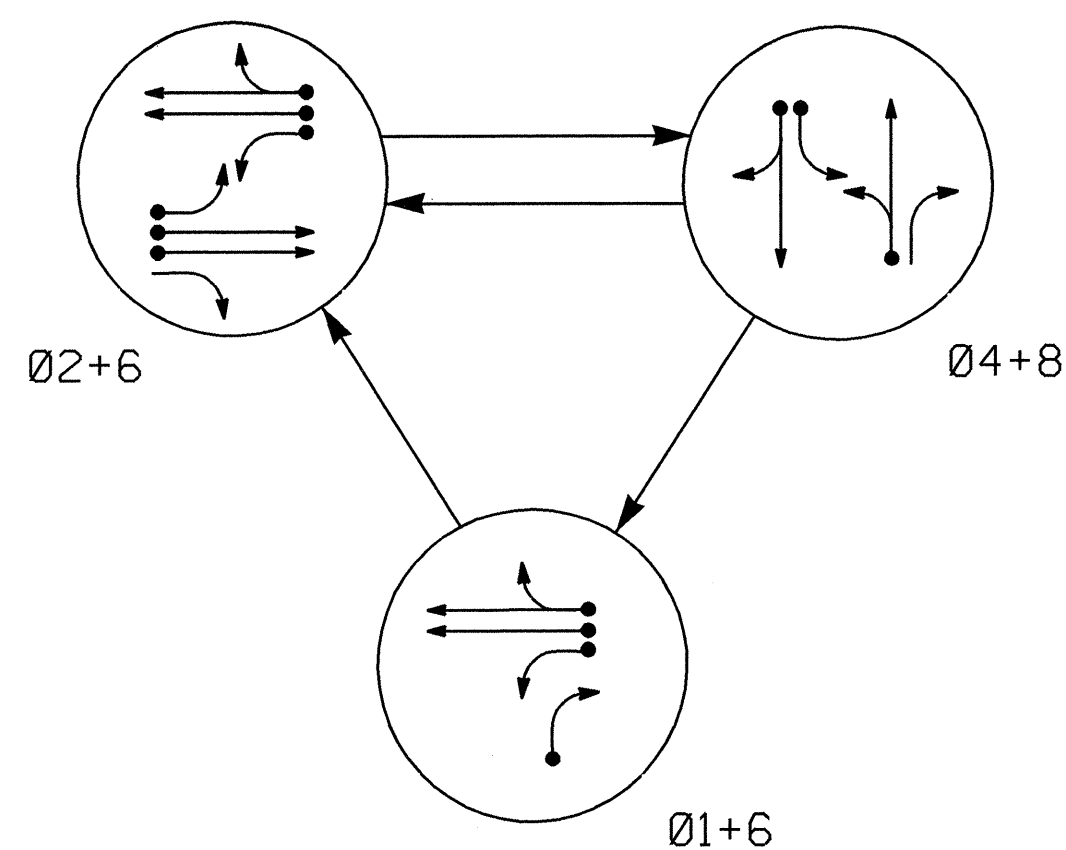
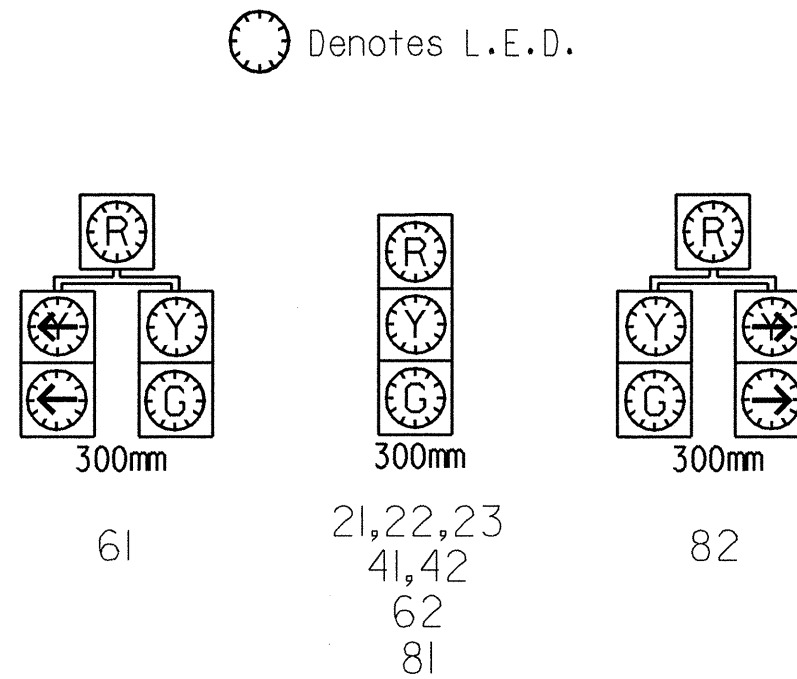


**PHASING DIAGRAM**



SIGNAL FACE	PHASE				
	Ø1+6	Ø2+6	Ø4+8	Ø4+8	FLASH
21,22,23	R	G	R	Y	
41,42	R	R	G	R	
61	G	G	R	Y	
62	G	G	R	Y	
81	R	R	G	R	
82	R	R	G	R	

**SIGNAL FACE I.D.**



LOOP & DETECTOR UNIT INSTALLATION CHART											
PEEK TS-2 CONTROLLER AND CABINET											
INDUCTIVE LOOPS						DETECTOR UNITS					
LOOP NO.	SIZE (m)	TURNS	DIST. FROM STOPBAR (m)	NEW EXISTING	NEMA PHASE	NEW EXISTING	TIMING		PLACE CALL DURING PHASE	INHIBIT DELAY DURING GREEN?	
							FEATURE	TIME			
1A	1.8X1.8	2-4-2	0	X	Ø1	X	DELAY	15 SEC.	ALL	YES	
1B	1.8X1.8	2-4-2	0	X	Ø6	X	DELAY	3 SEC.	ALL	NO	
2A,2B	1.8X1.8	4	90	X	Ø2	X	EXTEND	1.8 SEC.	ALL	NO	
2C,2D	1.8X1.8	4	27	X	Ø2	X	-	- SEC.	ALL	NO	
2E	1.8X1.8	2-4-2	0	X	Ø2	X	DELAY	3 SEC.	ALL	NO	
4A	1.8X1.8	2-4-2	0	X	Ø4	X	DELAY	3 SEC.	ALL	YES	
4B	1.8X1.8	2-4-2	0	X	Ø4	X	DELAY	10 SEC.	ALL	YES	
6A,6B	1.8X1.8	4	90	X	Ø6	X	EXTEND	1.8 SEC.	ALL	NO	
6C,6D	1.8X1.8	4	27	X	Ø6	X	-	-	ALL	NO	
8A	1.8X1.8	2-4-2	0	X	Ø8	X	DELAY	3 SEC.	ALL	YES	

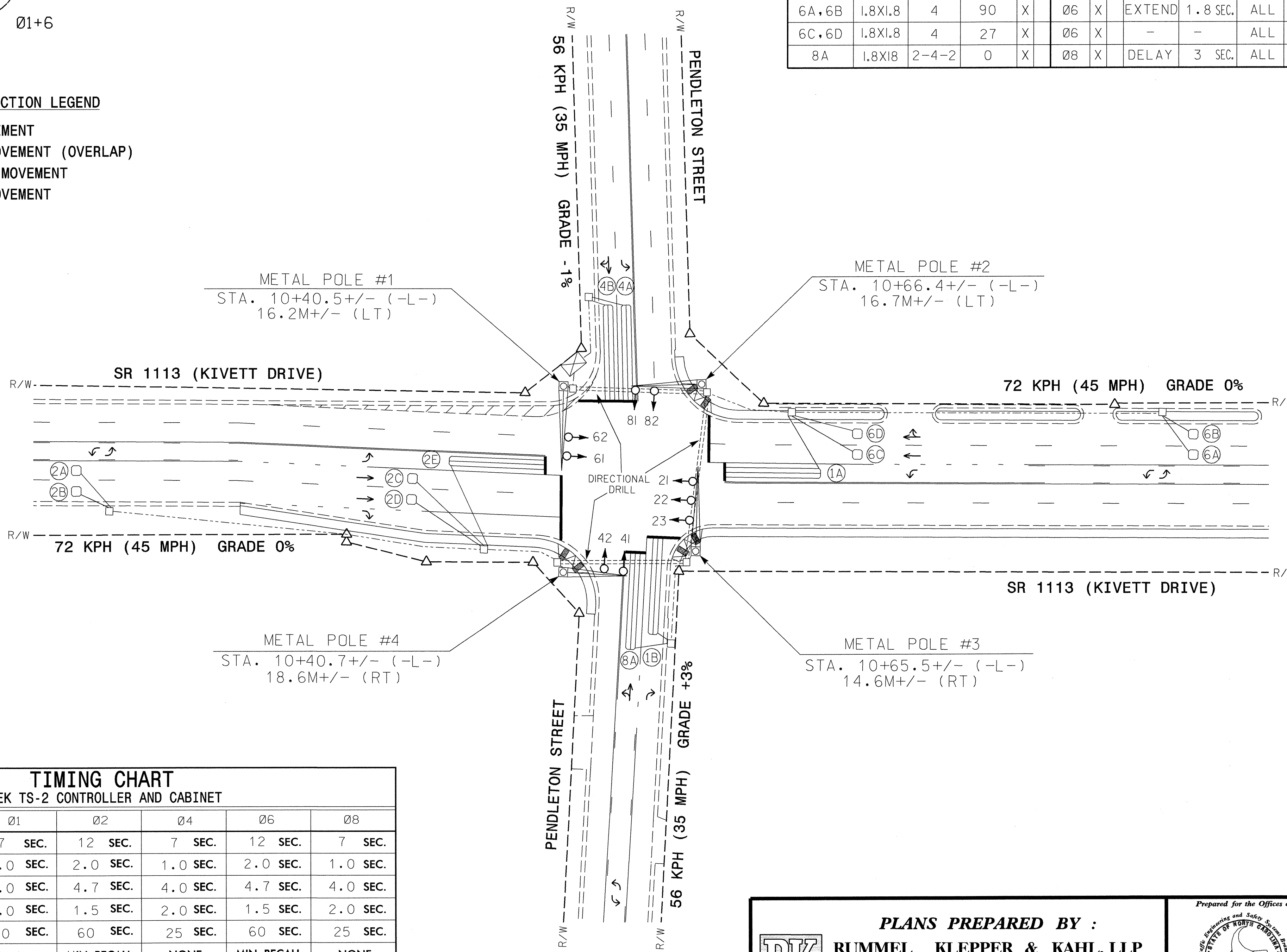
**3 Phase Actuated (High Point City Signal System)**

**NOTES**

- REFER TO "ROADWAY STANDARD DRAWINGS NCDOT" - RALEIGH, NC, DATED JANUARY 2002 AND "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2002.
- LOCATE NEW CABINET SO AS NOT TO OBSTRUCT SIGHT DISTANCE OF VEHICLES TURNING RIGHT ON RED.
- OMIT PHASE 1 DURING PHASE 2 ON.
- PROGRAM CONTROLLER TO CLEAR FROM PHASE 2+6 TO PHASE 1+6 BY PROGRESSING THROUGH PHASE 4+8 (SEE ELECTRICAL DETAILS).
- MAXIMUM TIMES SHOWN IN TIMING CHART ARE FOR FREE-RUN OPERATIONS ONLY. COORDINATED SIGNAL SYSTEM TIMING VALUES SHALL SUPERSEDE THESE VALUES.
- DO NOT PROGRAM SIGNAL FOR FOR LATE NIGHT FLASHING OPERATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PROGRAM PHASE 4 AND PHASE 8 FOR DUAL ENTRY.
- SET ALL DETECTOR UNITS TO PRESENCE MODE.
- SIGNAL SYSTEM INTERSECTION ID # 708

**PHASING DIAGRAM DETECTION LEGEND**

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



PLAN QUANTITIES	
Pay Item	Meters
Signal Cable	230
Messenger Cable	—
Lead-in Cable	535

**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    |
| □ Junction Box                                   | □ N/A    |
| --- 50mm Underground Conduit                     | --- N/A  |
| □ Directional Drill                              | □ N/A    |
| □ 2-50 mm Polyethylene Conduit                   | □ N/A    |
| N/A Right of Way with Marker                     | △ N/A    |
| → Directional Arrow                              | → N/A    |
| ⊥ Metal Pole with Mastarm                        | ⊥ N/A    |
| ⊥ Controller & Cabinet                           | ⊥ N/A    |
| ⊥ Wheelchair Ramp                                | ⊥ N/A    |

TIMING CHART					
PEEK TS-2 CONTROLLER AND CABINET					
PHASE	Ø1	Ø2	Ø4	Ø6	Ø8
MINIMUM GREEN	7 SEC.	12 SEC.	7 SEC.	12 SEC.	7 SEC.
PASSAGE/GAP	1.0 SEC.	2.0 SEC.	1.0 SEC.	2.0 SEC.	1.0 SEC.
YELLOW CHANGE INT.	4.0 SEC.	4.7 SEC.	4.0 SEC.	4.7 SEC.	4.0 SEC.
RED CLEARANCE	2.0 SEC.	1.5 SEC.	2.0 SEC.	1.5 SEC.	2.0 SEC.
MAXIMUM 1	20 SEC.	60 SEC.	25 SEC.	60 SEC.	25 SEC.
RECALL POSITION	NONE	MIN. RECALL	NONE	MIN. RECALL	NONE
VEHICLE CALL MEMORY	NONLOCK	LOCK	NONLOCK	LOCK	NONLOCK

**PLANS PREPARED BY :**  
**RUMMEL KLEPPER & KAHL, LLP**  
*consulting engineers*  
 5800 FARINGDON PLACE SUITE 105  
 RALEIGH, NORTH CAROLINA 27609-3960

**FOR**  
**DIVISION OF HIGHWAYS**

Prepared for the Offices of:  
  
 122 N. McDowell St., Raleigh, NC 27603  
 SCALE: 1 : 500

**NEW SIGNAL INSTALLATION**

SR 1113 (KIVETT DRIVE)  
 AT  
 PENDLETON STREET

DIVISION 07 GUILFORD COUNTY HIGH POINT  
 PLAN DATE: 03-19-04 REVIEWED BY: D. MORTON  
 PREPARED BY: C.B. HOLDEN (PK&K PROJECT NO. 302-079-SIG5)

REVISIONS	INIT.	DATE

SEAL  
  
 DONALD W. MORTON  
 ENGINEER  
 DATE: 6-15-04  
 SIGNATURE: [Signature]  
 DATE: 6-15-04  
 SIG. INVENTORY NO. 07-1467