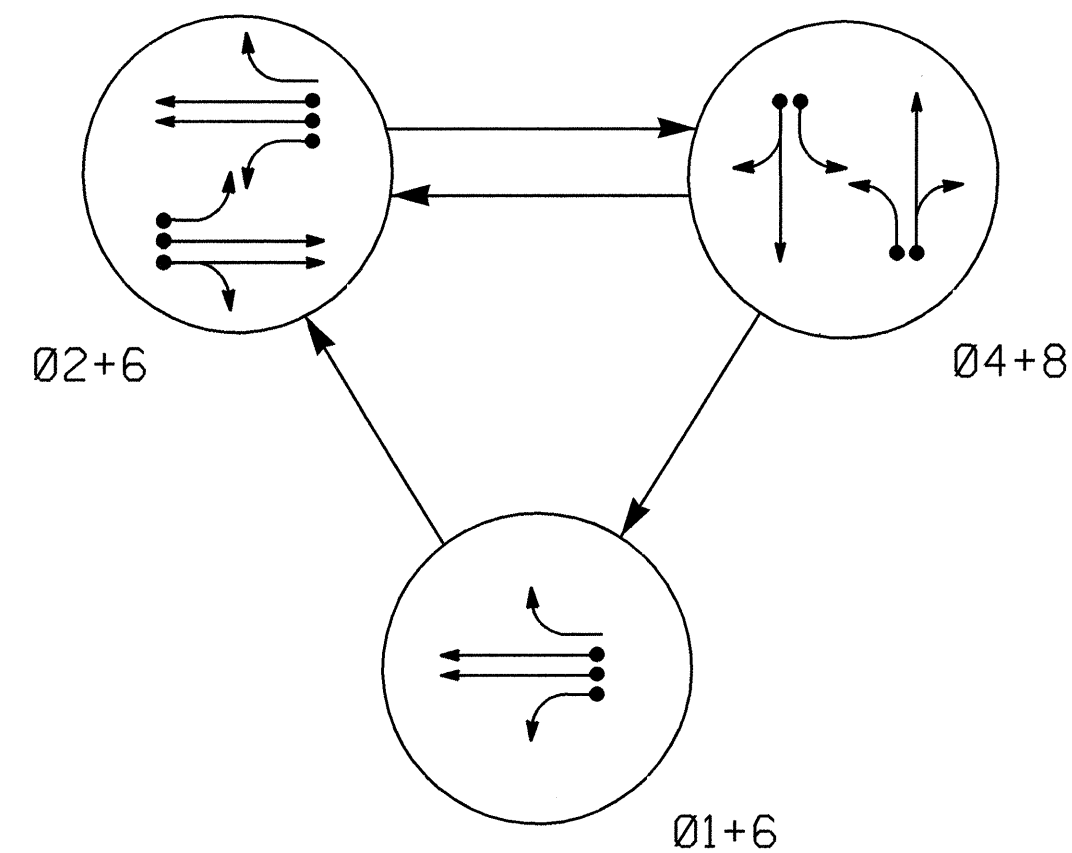


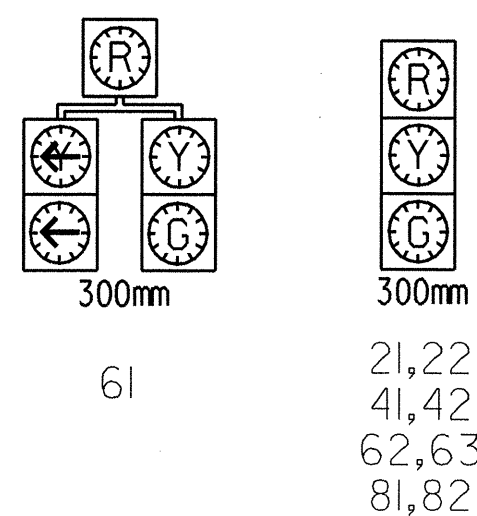
PHASING DIAGRAM



SIGNAL FACE	PHASE				
	Ø1+6	Ø2+6	Ø4+8	FLASHER	
21,22	R	G	R	Y	
41,42	R	R	G	R	
61	G	G	R	Y	
62,63	G	G	R	Y	
81,82	R	R	G	R	

SIGNAL FACE I.D.

Denotes L.E.D.



LOOP & DETECTOR UNIT INSTALLATION CHART
PEEK TS-2 CONTROLLER AND CABINET

LOOP NO.	SIZE (m)	TURNS	DIST. FROM STOPBAR (m)	NEW EXISTING	DETECTOR UNITS		TIMING		PLACE CALL DURING PHASE	INHIBIT DELAY DURING GREEN?
					NEMA PHASE	NEW EXISTING	FEATURE	TIME		
1A	1.8X1.8	2-4-2	0	X	Ø1	X	DELAY	15 SEC.	ALL	YES
					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	75	X	Ø6	X	EXTEND	1.5 SEC.	ALL	NO
6C, 6D	1.8X1.8	4	27	X	Ø6	X	-	- SEC.	ALL	NO
8A	1.8X1.8	2-4-2	0	X	Ø8	X	DELAY	3 SEC.	ALL	YES
8B	1.8X1.8	2-4-2	0	X	Ø8	X	DELAY	10 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 # 711

PHASING DIAGRAM DETECTION LEGEND

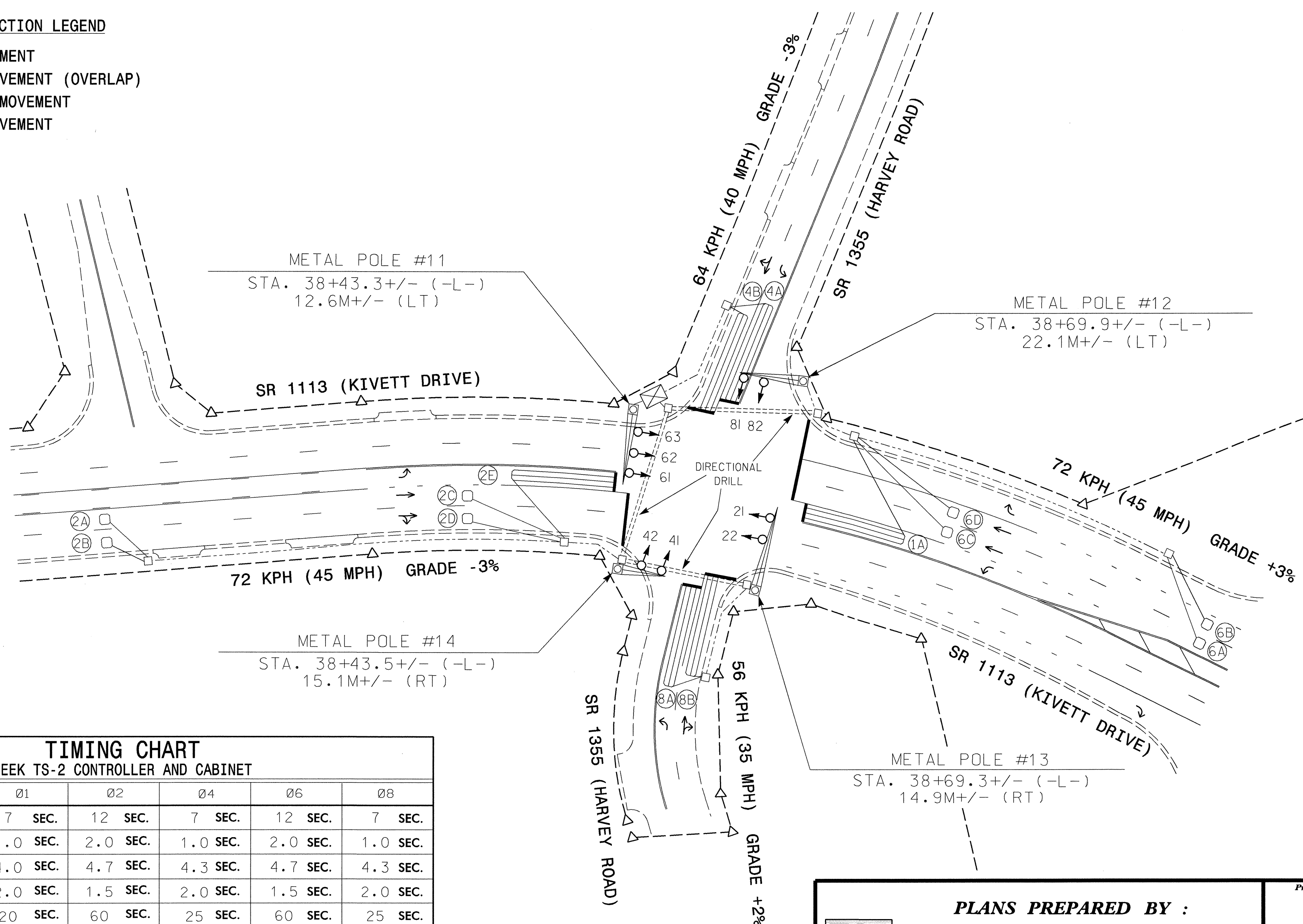
- ←● DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ←- UN SIGNALIZED MOVEMENT
- ←- PEDESTRIAN MOVEMENT

PLAN QUANTITIES

Pay Item	Meters
Signal Cable	215
Messenger Cable	—
Lead-in Cable	365

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.	4.3 SEC.	4.7 SEC.	4.3 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

NEW SIGNAL INSTALLATION

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:
 Planning, Engineering and Safety Services
 Department of Transportation
 Signal and Geometric Section
 222 N. McDowell St., Raleigh, NC 27603

SR 1113 (KIVETT DRIVE) AT SR 1355 (HARVEY ROAD)

DIVISION 07 GUILFORD COUNTY HIGH POINT
 PLAN DATE: 03-19-04 REVIEWED BY: D. WORTON
 PREPARED BY: C.B. HOLDEN R&K PROJECT NO. 302-079-SIG5
 REVISIONS: INIT. DATE

SCALE: 1 : 500

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 19798
 DONALD W. WORTON
 SIGNATURE: [Signature] DATE: 6-15-04
 SIG. INVENTORY NO. 07-1283