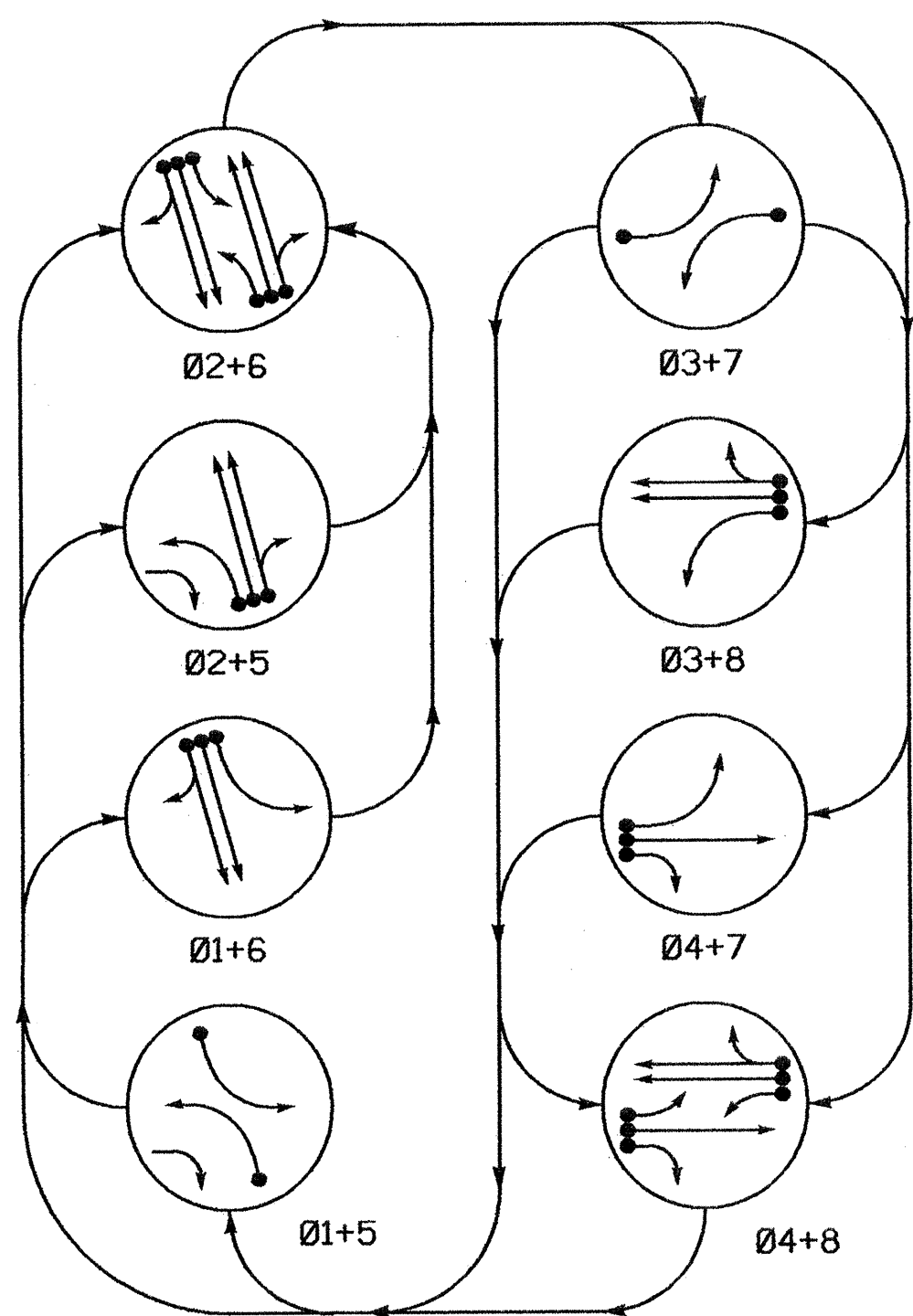


PHASING DIAGRAM



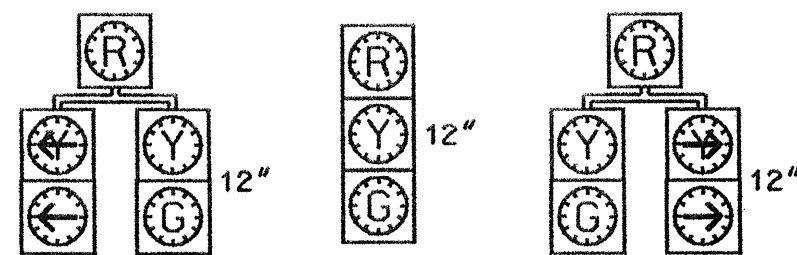
PHASING DIAGRAM DETECTION LEGEND

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

| SIGNAL FACE | PHASE | | | | | | | | |
|-------------|-------|------|------|------|------|------|------|------|-------|
| | Ø1+5 | Ø1+6 | Ø2+5 | Ø2+6 | Ø3+7 | Ø3+8 | Ø4+7 | Ø4+8 | FLASH |
| 21 | R | R | G | G | R | R | R | R | Y |
| 22 | R | R | G | G | R | R | R | R | Y |
| 41 | R | R | R | R | R | R | G | G | R |
| 42 | R | R | R | R | R | R | G | G | R |
| 61 | R | R | R | R | R | R | R | R | Y |
| 62 | R | R | R | R | R | R | R | R | Y |
| 81 | R | R | R | R | R | R | G | G | R |
| 82 | R | R | R | R | R | R | G | G | R |

SIGNAL FACE I.D.

⊙ Denotes L.E.D.



- 21
- 41
- 61
- 81
- 22
- 62
- 82
- 42

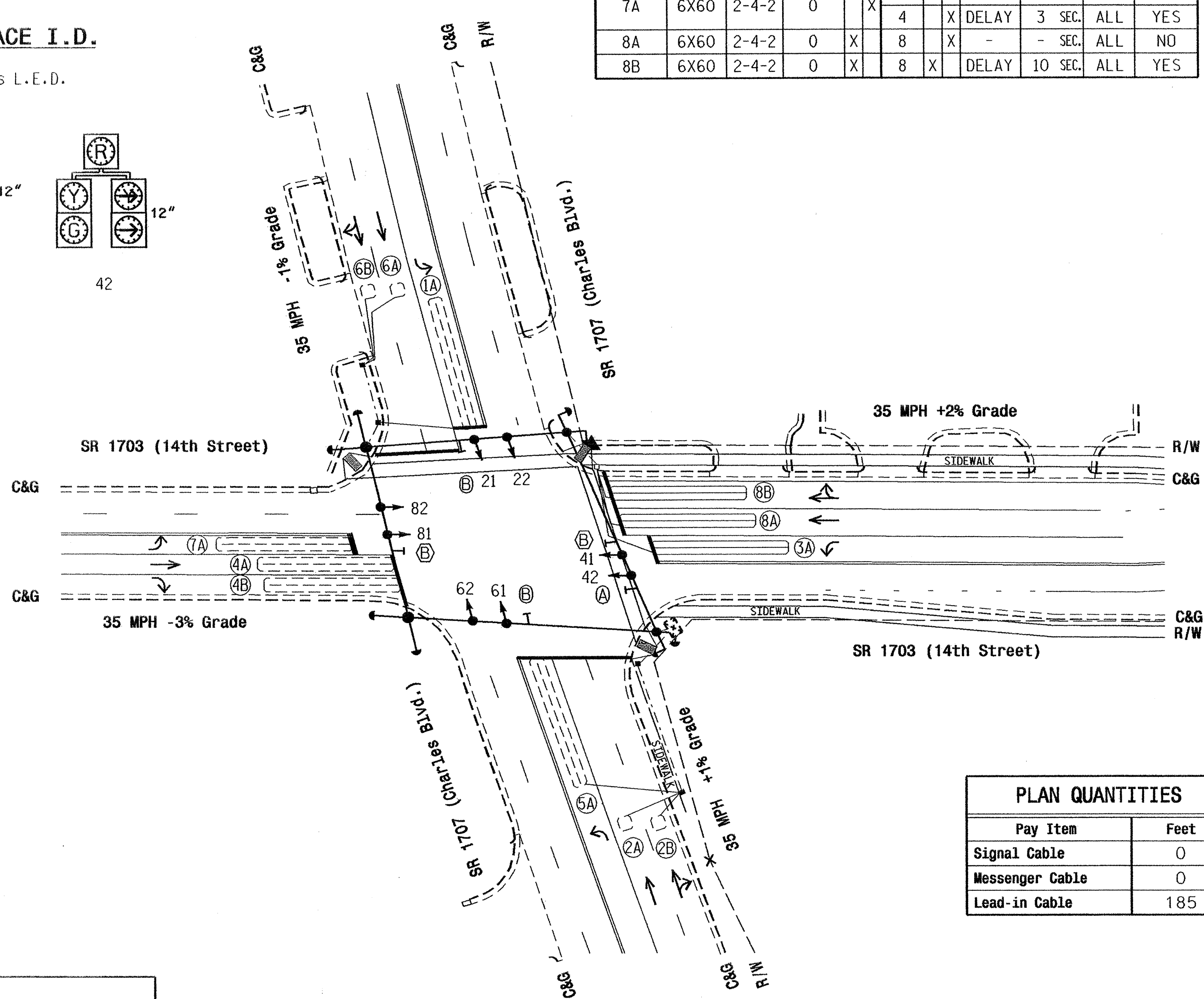
LOOP & DETECTOR UNIT INSTALLATION CHART
NEMA CONTROLLER WITH TS-2 CABINET

| LOOP NO. | SIZE (ft) | TURNS | DIST. FROM STORBAR (ft) | INDUCTIVE LOOPS | | DETECTOR UNITS | | TIMING | PLACE CALL DURING PHASE | INHIBIT DELAY DURING GREEN |
|----------|-----------|-------|-------------------------|-----------------|----------|----------------|----------|---------------|-------------------------|----------------------------|
| | | | | NEW | EXISTING | NEW | EXISTING | | | |
| 1A | 6X60 | 2-4-2 | 0 | X | | 1 | X | DELAY 15 SEC. | ALL | YES |
| 2A | 6X6 | 4 | 70 | X | | 2 | X | - - SEC. | ALL | NO |
| 2B | 6X6 | 4 | 70 | X | | 2 | X | - - SEC. | ALL | NO |
| 3A | 6X60 | 2-4-2 | 0 | X | | 3 | X | DELAY 15 SEC. | ALL | YES |
| 4A | 6X60 | 2-4-2 | 0 | X | | 4 | X | - - SEC. | ALL | NO |
| 4B | 6X60 | 2-4-2 | 0 | X | | 4 | X | DELAY 15 SEC. | ALL | YES |
| 5A | 6X60 | 2-4-2 | 0 | X | | 5 | X | DELAY 15 SEC. | ALL | YES |
| 6A | 6X6 | 4 | 70 | X | | 6 | X | - - SEC. | ALL | NO |
| 6B | 6X6 | 4 | 70 | X | | 6 | X | - - SEC. | ALL | NO |
| 7A | 6X60 | 2-4-2 | 0 | X | | 7 | X | DELAY 15 SEC. | ALL | YES |
| 8A | 6X60 | 2-4-2 | 0 | X | | 8 | X | DELAY 3 SEC. | ALL | YES |
| 8B | 6X60 | 2-4-2 | 0 | X | | 8 | X | DELAY 10 SEC. | ALL | YES |

8 Phase Fully Actuated (Greenville City System)

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.
- Reposition existing signal heads numbered 81 and 82.
- Omit phase 1 during phase 2 on.
- Omit phase 5 during phase 6 on.
- Omit phase 3 during phase 4 on.
- Omit phase 7 during phase 8 on.
- Program controller to clear from phase 2+6 to phase 1 and/or 5 by progressing through phase 4+8 (see Electrical Details).
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- Thirty days after implementation of the revised signal operation, signs B and/or orange flags may be removed at the discretion of the Regional Traffic Engineer.
- Set all detector units to presence mode.
- Intersection Zone Number: 3
System Address Number: 86



| PLAN QUANTITIES | |
|-----------------|------|
| Pay Item | Feet |
| Signal Cable | 0 |
| Messenger Cable | 0 |
| Lead-in Cable | 185 |

LEGEND

- | | | | |
|--|--|--|--|
| | Proposed Traffic Signal Head | | Existing Traffic Signal Head |
| | Proposed Modified Signal Head | | Existing Modified Signal Head |
| | Proposed Pedestrian Signal Head | | Existing Pedestrian Signal Head |
| | Proposed Signal Pole with Guy | | Existing Signal Pole with Guy |
| | Proposed Signal Pole with Sidewalk Guy | | Existing Signal Pole with Sidewalk Guy |
| | Proposed Inductive Loop Detector | | Existing Inductive Loop Detector |
| | Proposed Controller & Cabinet | | Existing Controller & Cabinet |
| | Proposed Junction Box | | Existing Junction Box |
| | Proposed 2-in Underground Conduit | | Existing 2-in Underground Conduit |
| | Proposed Right of Way with Marker | | Existing Right of Way with Marker |
| | Proposed Directional Arrow | | Existing Directional Arrow |
| | Proposed Pavement Marking Arrow | | Existing Pavement Marking Arrow |
| | Proposed Wheelchair Ramp | | Existing Wheelchair Ramp |
| | Proposed Right Arrow "ONLY" Sign (R3-SR) | | Existing Right Arrow "ONLY" Sign (R3-SR) |
| | Proposed "LEFT TURN YIELD ON GREEN" Sign With Flags (R10-12) | | Existing "LEFT TURN YIELD ON GREEN" Sign With Flags (R10-12) |
| | Proposed ORANGE WARNING FLAG | | Existing ORANGE WARNING FLAG |

TIMING CHART
NEMA CONTROLLER

| PHASE | Ø1 | Ø2 | Ø3 | Ø4 | Ø5 | Ø6 | Ø7 | Ø8 |
|---------------------|----------|-------------|----------|----------|----------|-------------|----------|----------|
| MINIMUM GREEN | 7 SEC. | 10 SEC. | 7 SEC. | 7 SEC. | 7 SEC. | 10 SEC. | 7 SEC. | 7 SEC. |
| PASSAGE GAP | 1.0 SEC. | 3.0 SEC. | 1.0 SEC. | 1.0 SEC. | 1.0 SEC. | 3.0 SEC. | 1.0 SEC. | 1.0 SEC. |
| YELLOW CHANGE INT. | 4.0 SEC. | 4.0 SEC. | 4.0 SEC. | 4.0 SEC. | 4.0 SEC. | 4.0 SEC. | 4.0 SEC. | 4.0 SEC. |
| RED CLEARANCE | 2.5 SEC. | 2.5 SEC. | 2.0 SEC. | 2.0 SEC. | 2.5 SEC. | 2.5 SEC. | 2.0 SEC. | 2.0 SEC. |
| MAX. 1 | 20 SEC. | 50 SEC. | 20 SEC. | 50 SEC. | 20 SEC. | 50 SEC. | 20 SEC. | 50 SEC. |
| RECALL POSITION | NONE | MIN. RECALL | NONE | NONE | NONE | MIN. RECALL | NONE | NONE |
| VEH. CALL MEMORY | NONLOCK | LOCK | NONLOCK | NONLOCK | NONLOCK | LOCK | NONLOCK | NONLOCK |
| WALK | - SEC. | - SEC. | - SEC. | - SEC. | - SEC. | - SEC. | - SEC. | - SEC. |
| FLASHING DON'T WALK | - SEC. | - SEC. | - SEC. | - SEC. | - SEC. | - SEC. | - SEC. | - SEC. |
| VOLUME DENSITY | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |

Signal Upgrade- Final Design

| | | | |
|---|---|-------------------------------|-----------------------------------|
| | <p>SR 1707 (Charles Blvd.) at SR 1703 (14th Street)</p> | | <p>SEAL 24393</p> |
| | <p>Division 2 Pitt County Greenville</p> | <p>PLAN DATE: August 2004</p> | |
| <p>122 N. McDowell St., Raleigh, NC 27603</p> | <p>PREPARED BY: R N Mouberry</p> | <p>REVIEWED BY:</p> | <p>DATE: 8/26/04</p> |
| <p>SCALE: 1"=40'</p> | <p>REVISIONS:</p> | <p>INIT. DATE:</p> | <p>SIG. INVENTORY NO. 02-0019</p> |