

TRAFFIC SIGNAL PHASING



PROJ. REFERENCE NO.	SHEET NO.
U-2734	Sig 1A

PHASE I

BEGIN SIGNAL WORK AS FOLLOWS:
 COMPLY WITH THE PROVISIONS OF SECTION 1700
 OF THE 2002 STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES
 AND THE PROJECT SPECIAL PROVISIONS.

INTERMEDIATE CONTRACT TIME 1

UPON THE DATE OF AVAILABILITY THE CONTRACTOR SHALL WORK IN A
 CONTINUOUS MANNER TO COMPLETE THE FOLLOWING IN NINETY (90)
 CONSECUTIVE CALENDAR DAYS:

- CHANGE CABINET AND CONTROLLERS
- INSTALL FIBER OPTIC CABLE AND SYSTEM DETECTORS.
- IMPLEMENT CLOSED LOOP SIGNAL SYSTEM

FOR EXISTING SIGNALS AS FOLLOWS:

- 03-0189 - US 76 (OLEANDER DR/WRIGHTSVILLE AVE) @ SR 1411 (WRIGHTSVILLE AVE/AIRLIE RD).
- 03-0782 - US 76/SR 1996 (WRIGHTSVILLE AVE) @ SR 1409 (MILITARY CUTOFF RD)
- 03-0202 - US 74-76 (EASTWOOD RD) @ SR 1409 (MILITARY CUTOFF RD).
- 03-0752 - SR 1409 (MILITARY CUTOFF RD) @ DRYSDALE RD.

- INSTALL GPS UNITS
- CREATE TIME-BASED SYSTEM

FOR EXISTING SIGNALS AS FOLLOWS:

- 03-0882 - SR 1409 (MILITARY CUTOFF RD) @ SR 1940 (COVIL FARM RD).
- 03-0884 - SR 1409 (MILITARY CUTOFF RD) @ SR 2048 (GORDON RD).
- 03-0390 - US 17 (MARKET ST) @ SR 2048 (GORDON RD)
- 03-0076 - US 17 (MARKET ST) @ SR 3140 (MIDDLE SOUND LOOP RD).
- 03-0369 - US 17 (MARKET ST) @ SR 1363 (BAYSHORE DR)/SR 2717 (TORCHWOOD DR)

- COORDINATE WITH EXISTING SIGNALS FOR TIME-BASED SYSTEM
 FOR EXISTING SIGNALS USING EXISTING GPS UNIT AS FOLLOWS:

- 03-0895 - SR 1409 (MILITARY CUTOFF RD) @ FORUM DR & ACCESS F
- 03-0952 - SR 1409 (MILITARY CUTOFF RD) @ RENAISSANCE DR & DESTINY WAY (ACCESS D)
- 03-0951 - SR 1409 (MILITARY CUTOFF RD) @ SIR TYLER DR & MAIN ST (ACCESS C)

NOTE:
 THE INSTALLATION OF METAL POLES (AND MASTARMS) IS
 NOT REQUIRED TO COMPLETE ICT 1. THE METAL POLES
 SHALL BE INSTALLED AS SOON AS FABRICATION IS
 COMPLETE AND THEY BECOME AVAILABLE TO THE CONTRACTOR.
 THIS INSTALLATION SHOULD TAKE PLACE BY THE CONCLUSION
 OF PHASE I.

INTERMEDIATE CONTRACT TIME 2

UPON THE DATE OF AVAILABILITY THE CONTRACTOR SHALL WORK IN
 A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING IN THREE
 HUNDRED AND SIXTY-FIVE (365) CONSECUTIVE CALENDAR DAYS:

- REMOVE EXISTING CABINET AND CONTROLLERS.
- INSTALL NEW CABINET AND CONTROLLERS.
- INSTALL FIBER OPTIC CABLE AND SYSTEM DETECTORS

FOR EXISTING SIGNALS AS FOLLOWS:

- 03-0884 - SR 1409 (MILITARY CUTOFF RD) @ SR 2048 (GORDON RD).
- 03-0390 - US 17 (MARKET ST) @ SR 2048 (GORDON RD)
- 03-0076 - US 17 (MARKET ST) @ SR 3140 (MIDDLE SOUND LOOP RD).
- 03-0369 - US 17 (MARKET ST) @ SR 1363 (BAYSHORE DR)/SR 2717 (TORCHWOOD DR)

- INSTALL NEW CABINET AND CONTROLLER
- INSTALL FIBER OPTIC CABLE AND SYSTEM DETECTORS

FOR NEW SIGNAL:

- 03-0319 - US 17 (MARKET ST) @ SR 1409 (MILITARY CUTOFF RD).
- IMPLEMENT CLOSED LOOP SIGNAL SYSTEM FOR THE FIVE (5) SIGNALS ABOVE:

- COORDINATE THE ABOVE CLOSED LOOP SYSTEM WITH THE
 EXISTING SIGNAL SYSTEM CREATED IN ICT 1 AND MAINTAIN
 COORDINATION THROUGH THE ENTIRE PROJECT.

NOTE:
 THE WORK REQUIRED IN THIS TRAFFIC SIGNAL ICT (ICT 2) IS TIED TO
 ROADWAY 365 DAY ICT AS SPECIFIED IN THE TRAFFIC CONTROL
 PLANS AND SPECIFICATIONS.

NOTE:
 THE INSTALLATION OF THE METAL POLES AND MAST ARMS
 AT 03-0884 (MILITARY CUTOFF RD @ GORDON RD)
 IS NOT REQUIRED TO COMPLETE ICT 2.

PHASE II

- INSTALL SIGNAL PLANS AS SHOWN TO ACCOMMODATE
 ALL TRAFFIC SHIFTS DURING CONSTRUCTION.
- ADJUST SIGNAL TIMING AS NECESSARY TO MAINTAIN A
 COORDINATED TRAFFIC SIGNAL SYSTEM FOR THE
 FOLLOWING SIGNALS:

- 03-0189 - US 76 (OLEANDER DR/WRIGHTSVILLE AVE) @ SR 1411 (WRIGHTSVILLE AVE/AIRLIE RD).
- 03-0782 - US 76/SR 1996 (WRIGHTSVILLE AVE) @ SR 1409 (MILITARY CUTOFF RD)
- 03-0202 - US 74-76 (EASTWOOD RD) @ SR 1409 (MILITARY CUTOFF RD).
- 03-0752 - SR 1409 (MILITARY CUTOFF RD) @ DRYSDALE RD.
- 03-0895 - SR 1409 (MILITARY CUTOFF RD) @ FORUM DR & ACCESS F
- 03-0952 - SR 1409 (MILITARY CUTOFF RD) @ RENAISSANCE DR & DESTINY WAY (ACCESS D)
- 03-0951 - SR 1409 (MILITARY CUTOFF RD) @ SIR TYLER DR & MAIN ST (ACCESS C)
- 03-0884 - SR 1409 (MILITARY CUTOFF RD) @ SR 1940 (COVIL FARM RD).
- 03-0882 - SR 1409 (MILITARY CUTOFF RD) @ SR 2048 (GORDON RD).
- 03-0319 - US 17 (MARKET ST) @ SR 1409 (MILITARY CUTOFF RD).
- 03-0390 - US 17 (MARKET ST) @ SR 2048 (GORDON RD)
- 03-0076 - US 17 (MARKET ST) @ SR 3140 (MIDDLE SOUND LOOP RD).
- 03-0369 - US 17 (MARKET ST) @ SR 1363 (BAYSHORE DR)/SR 2717 (TORCHWOOD DR)

FINAL CLOSED LOOP SYSTEM

- CHANGE CABINET AND CONTROLLERS AND INSTALL FINAL SIGNAL DESIGN
 FOR EXISTING SIGNALS AS FOLLOWS:
 03-0895 - SR 1409 (MILITARY CUTOFF RD) @ FORUM DR & ACCESS F
 03-0952 - SR 1409 (MILITARY CUTOFF RD) @ RENAISSANCE DR & DESTINY WAY (ACCESS D)
 03-0951 - SR 1409 (MILITARY CUTOFF RD) @ SIR TYLER DR & MAIN ST (ACCESS C)

- INSTALL NEW CABINET AND CONTROLLERS AND INSTALL FINAL SIGNAL DESIGN
 FOR NEW SIGNALS AS FOLLOWS:
 03-0956 - SR 1409 (MILITARY CUTOFF RD) @ CAYMAN CT & TOWN CENTER DR (ACCESS A)
 03-0950 - SR 1409 (MILITARY CUTOFF RD) @ SR 1471 (N STATION RD)
 03-0794 - SR 1409 (MILITARY CUTOFF RD) @ ARBORETUM DR

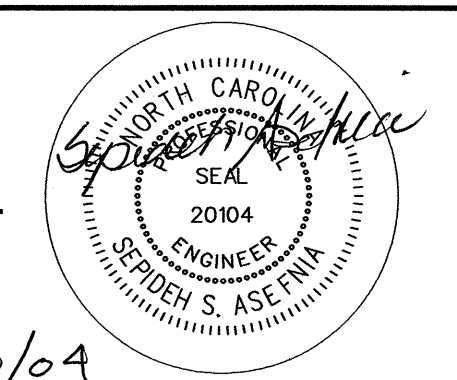
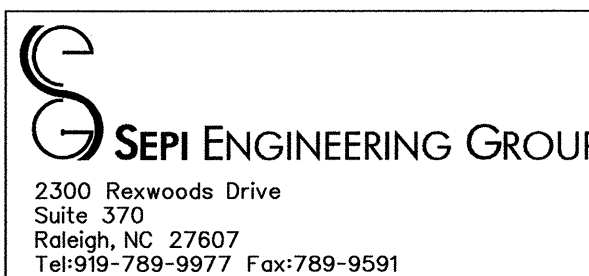
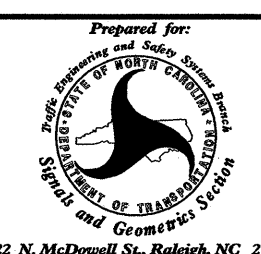
-INSTALL FINAL SIGNAL DESIGNS AS SHOWN FOR
 THE FOLLOWING LOCATIONS:
 03-0895 - SR 1409 (MILITARY CUTOFF RD) @ FORUM DR & ACCESS F
 03-0952 - SR 1409 (MILITARY CUTOFF RD) @ RENAISSANCE DR & DESTINY WAY (ACCESS D)
 03-0951 - SR 1409 (MILITARY CUTOFF RD) @ SIR TYLER DR & MAIN ST (ACCESS C)
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 03-0882 - SR 1409 (MILITARY CUTOFF RD) @ SR 1940 (COVIL FARM RD).
 03-0884 - SR 1409 (MILITARY CUTOFF RD) @ SR 2048 (GORDON RD).

-INSTALL FIBER OPTIC CABLE AS SHOWN IN THE PLANS
 FROM 03-0752 (MILITARY CUTOFF RD @ DRYSDALE RD)
 TO 03-0884 (MILITARY CUT OFF RD @ GORDON RD).

-REMOVE THE PHONE DROP AND MASTER CONTROLLER FROM
 03-0884 (MILITARY CUT OFF RD @ GORDON RD).
 -REWIRE THE FIBER OPTIC CLOSED LOOP SIGNAL SYSTEM
 AS SHOWN IN THE PLANS, DESIGNATING THE MASTER CONTROLLER
 AT 03-0189 (US 76 OLEANDER RD @ AIRLIE RD) AS THE
 MASTER FOR THE ENTIRE CLOSED LOOP SYSTEM.
 -REMOVE EXISTING GPS UNITS FROM ALL SIGNALS.

- IMPLEMENT THE FINAL CLOSED LOOP SIGNAL SYSTEM.

- THE FINAL CLOSED LOOP SIGNAL SYSTEM WILL CONSIST OF
 THE FOLLOWING SIGNALS.
 03-0189 - US 76 (OLEANDER DR/WRIGHTSVILLE AVE) @ SR 1411 (WRIGHTSVILLE AVE/AIRLIE RD).
 03-0782 - US 76/SR 1996 (WRIGHTSVILLE AVE) @ SR 1409 (MILITARY CUTOFF RD)
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 03-0369 - US 17 (MARKET ST) @ SR 1363 (BAYSHORE DR)/SR 2717 (TORCHWOOD DR)

APPROVED: _____ DATE: _____ 	<h2 style="margin: 0;">TRAFFIC SIGNAL PHASING</h2>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">SCALE:</td> <td style="text-align: center;">NONE</td> </tr> <tr> <td style="font-size: small;">DATE:</td> <td style="text-align: center;">1/30/04</td> </tr> <tr> <td style="font-size: small;">DWG. BY:</td> <td style="text-align: center;">LME</td> </tr> <tr> <td style="font-size: small;">DESIGN BY:</td> <td style="text-align: center;">LME</td> </tr> <tr> <td style="font-size: small;">REVIEWED BY:</td> <td style="text-align: center;">SSA</td> </tr> </table>	SCALE:	NONE	DATE:	1/30/04	DWG. BY:	LME	DESIGN BY:	LME	REVIEWED BY:	SSA
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 <p style="font-size: x-small;">SEPI ENGINEERING GROUP 2300 Rexwoods Drive Suite 370 Raleigh, NC 27607 Tel: 919-789-9977 Fax: 789-9591</p>	 <p style="font-size: x-small;">Professional Engineer Stephen S. Asefina License No. 20104 State of North Carolina 122 N. McDowell St., Raleigh, NC 27609</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left; font-size: small;">REVISIONS</th> </tr> <tr> <td style="height: 20px;"> </td> </tr> <tr> <td style="height: 20px;"> </td> </tr> <tr> <td style="height: 20px;"> </td> </tr> </table>	REVISIONS									
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