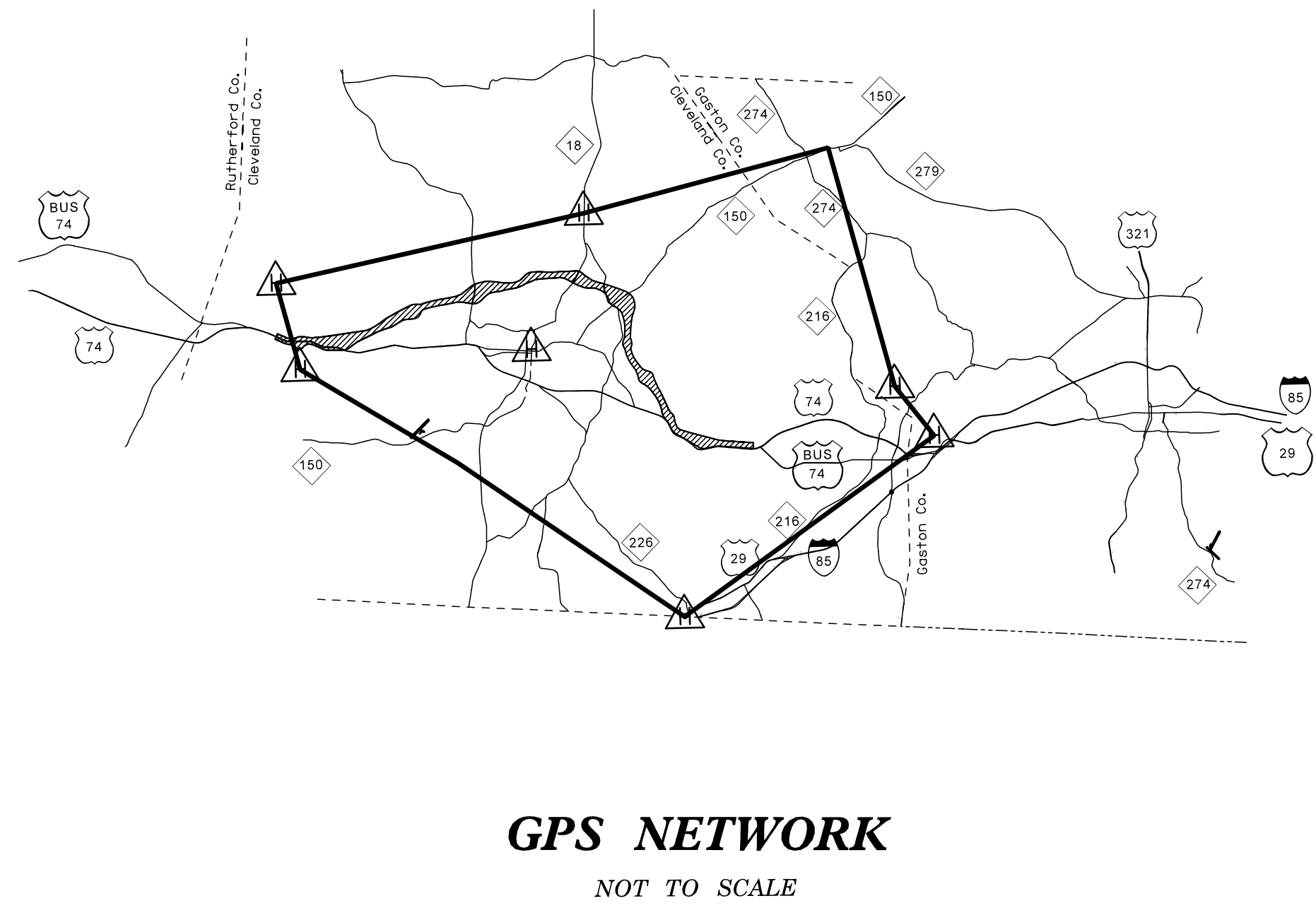


SURVEY CONTROL SHEET



NOTES

1. THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD 83/95 ADJUSTMENT. THIS CALIBRATION WILL ALLOW THE END USER TO WORK WITHIN THE SAME COORDINATE SYSTEM WHEN USING RTK (REAL TIME KINEMATIC) GPS AND A LOCAL BASE STATION. IF ANOTHER SYSTEM SUCH AS VRS (VIRTUAL REFERENCE STATION) IS USED, ADDITIONAL FIELD TIES MAYBE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.
2. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT [HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/doh/preconstruct/highway/location/project/) THE FILES TO BE FOUND ARE AS FOLLOWS:

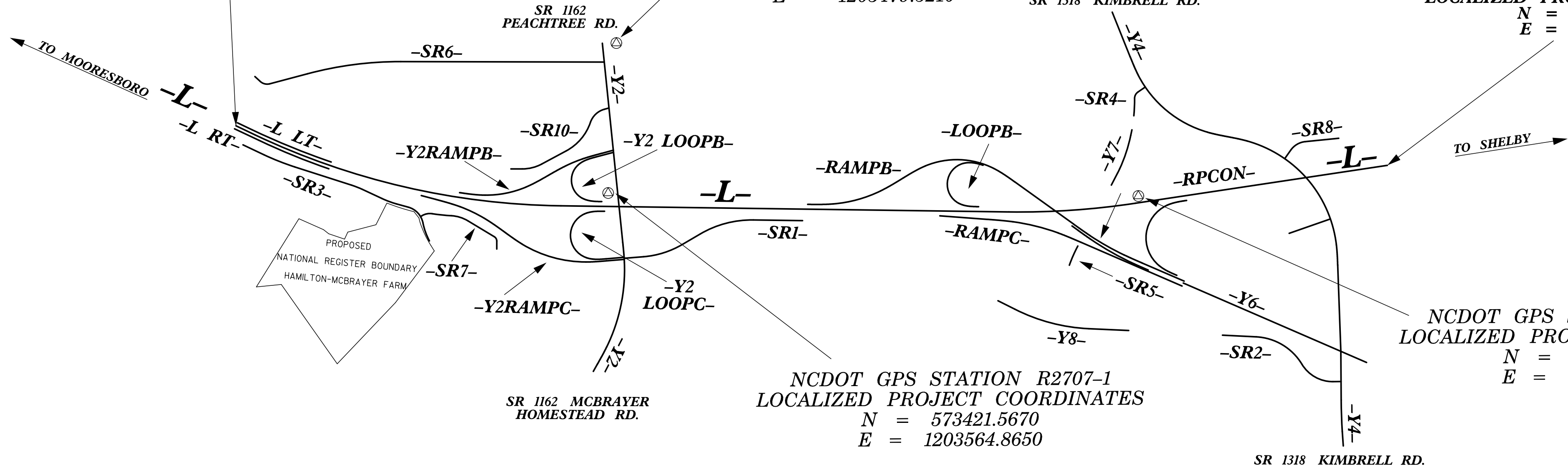
R2707A.LS_GPCALIB_100701.PDF
R2707A.LS_WGS84_100701.TXT
R2707A.LS_LOCAL_100701.TXT
R2707A.LS_CONTROL_100701.TXT

THE WGS84 AND LOCAL FILES ARE COMMA DELIMITED AND CAN BE USED TO REPRODUCE THE SITE CALIBRATION FOR THE END USER'S GPS EQUIPMENT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

**-L-STA 5+03.30 BEGIN STATE PROJECT 34497.1.2 R2707AA
LOCALIZED PROJECT COORDINATES**
N = 574,383.2782
E = 1,199,818.1890

**NCDOT GPS STATION R2707-2
LOCALIZED PROJECT COORDINATES**
N = 574596.5150
E = 1203479.5210

**-L-STA 119+00.00 END STATE PROJECT 34497.1.2 R2707AA
-L- STA 119+00.00 BEG. STATE PROJECT 34497.1.2 R2707AB
LOCALIZED PROJECT COORDINATES**
N = 573,936.1353
E = 1,211,057.3639



**NCDOT GPS STATION R2707-1
LOCALIZED PROJECT COORDINATES**
N = 573421.5670
E = 1203564.8650

**NCDOT GPS STATION R2707-31
LOCALIZED PROJECT COORDINATES**
N = 573379.9860
E = 1208167.8730

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "M 77"
WITH NAD 83/95 STATE PLANE GRID COORDINATES OF
NORTHING: 573127.522(±ft) EASTING: 124297.658(±ft)
ELEVATION: 852.279'(±ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99984410
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "M 77" TO -L- L STATION 5+03.30 IS
N 75 36 14 W 3868.1352'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

⊙ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
PROJECT CONTROL ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEM NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION.
SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES

NOTE: DRAWING NOT TO SCALE

1/24/13
08-DEC-2017 13:47
\\p02dway\p-r-o\1\2707F_1s_1c-1.dgn