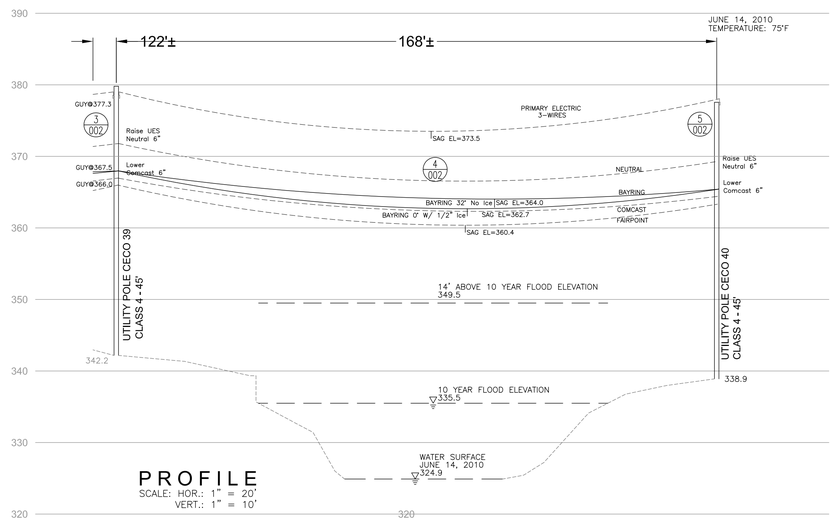
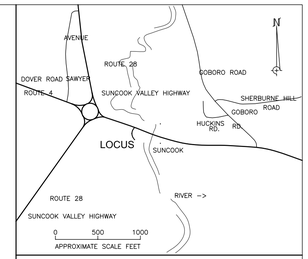
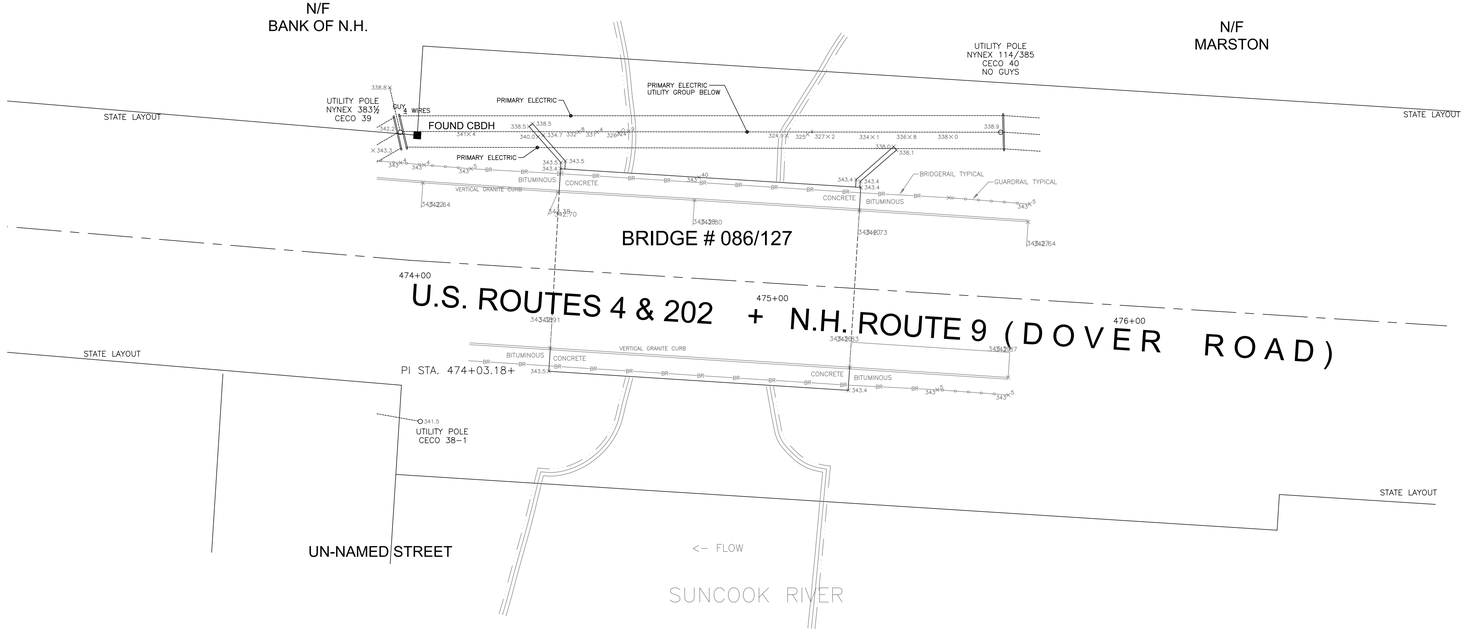



LOCUS MAP

N O T E S:

1. This plan was prepared from record data on file at the New Hampshire Department of Transportation, the Federal Emergency Management Agency, and a field instrument survey by this office.
2. The 10 Year Flood Elevation depicted upon this plan was taken from a report entitled:
FLOOD INSURANCE STUDY, Volume 2 of 2, MERRIMACK COUNTY, NEW HAMPSHIRE (ALL JURISDICTION), Effective Date: April 19, 2010, by the FEDERAL EMERGENCY MANAGEMENT AGENCY (Page 74P).
3. BENCHMARK: Taken from site plan for Bank of NH property. Established Using GPS. First Floor=345.81 (USGS DATUM)
4. CBDH – Denotes Concrete Bound with Drill Hole
5. RF – Denotes Reflector
Cable.
6. UES to raise neutral 6" on poles 39 and 40 and re-tension to maintain NESC clearances..
7 Comcast to lower their cable 6" on poles 39 and 40.
8. BayRing to attach 12' above Comcast on poles 39 and 40.
9. UES sags for relocated neutral and primary conductors are estimated.
10. Sags for relocated Comcast and Fairpoint cables are estimated based upon original surveyed sags.
11. Additional Guy to be added to pole 39 at BayRing attachment height.




Sheet 1 of 2

CEG Consulting Engineers Group Inc.
ENGINEERS & CONSULTANTS
ONE CHARLESVIEW RD. HOPEDALE, MASSACHUSETTS
WWW.CEGCONSULTING.COM

Add Proposed Communication line profiles and data table 08/05/10 PF/TO
Per client comments 08/10/10 TO/PF

# EXISTING CONDITIONS

## PLAN of LAND in EPSOM, NH

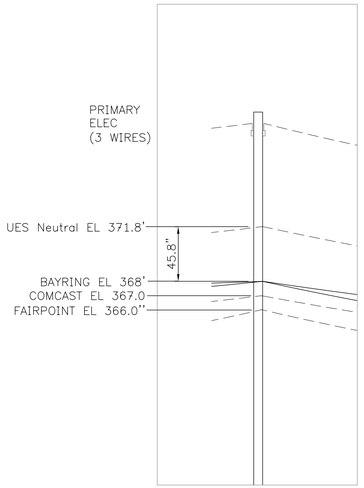
Prepared For: BayRing Communications
359 Corporate Drive
Portsmouth, NH 03801-6808

SCALE: AS SHOWN
DATE: JUNE 30, 2010

Prepared By:
DEWSNAP ENGINEERING ASSOCIATES LLP
178 LINCOLN AVENUE
SAUGUS, MA 01906
TEL. #: (781) 233 – 0595

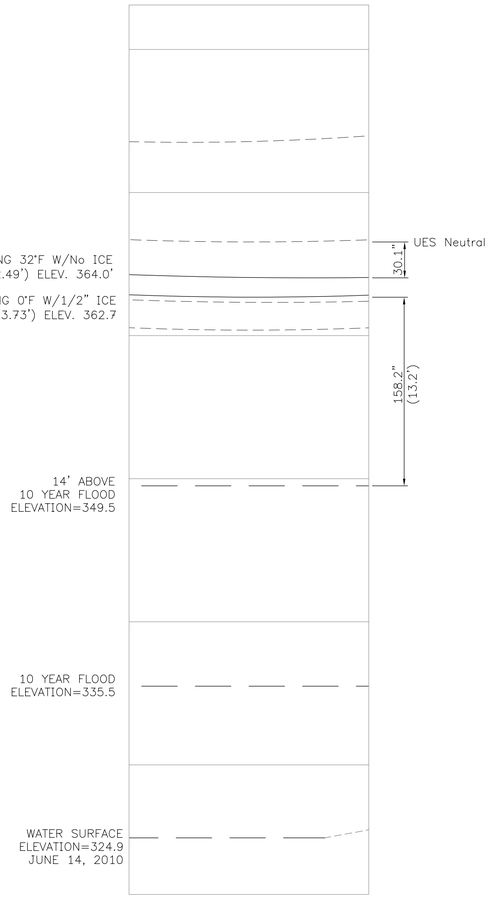
Benchmark:
See Note # 3

| | |
|---|---|
| Checked By: | P.A.D. |
| Drawn By: | S.F.D. |
| Designed By: | |
| Field By: | P.A.D. & S.F.D. |
| Sheet: | |



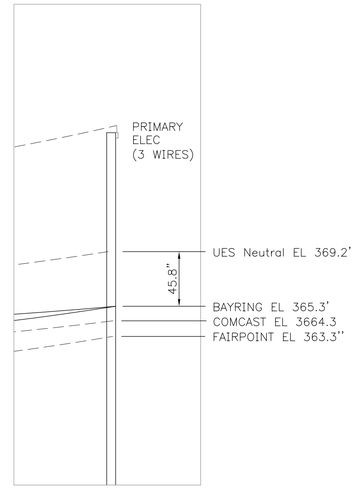

UP CECO 39

3
001




MIDSPAN CLEARANCE

4
001




UP CECO 40

5
001

# P R O F I L E  D E T A I L S

Scale: 1" = 10' HORIZ
1" = 5' VERT

## BAYRING CABLE SAG CHART

**ALUMINUM COMPANY OF AMERICA SAG AND TENSION DATA**

**Rte. 4 and Suncook River Crossing**

**Conductor Nominal Diameter 5/16 7 Strand Steel EHS**

**Area= .0595 Sq. In Dia= .312 In Wt= .205 Lb/F RTS= 11200 Lb**
**Data from Chart No. 1-1293**
**English Units**

**Span= 168.0 Feet NESC Heavy Load Zone**
**Creep is NOT a Factor**

| Design Points Temp F | Ice In | Wind Psf | K Lb/F | Weight Lb/F | Sag Ft | Final Tension Ft | H/W Ft | Initial Sag Ft | Initial Tension Lb | Initial H/W Ft |
|---|---|---|---|---|---|---|---|---|---|---|
| -20. | .00 | .00 | .00 | .205 | | | | 1.38 | 525. | 2559. |
| 0. | .00 | .00 | .00 | .205 | | | | 1.61 | 449. | 2190. |
| 28. | .00 | .00 | .00 | .205 | | | | 1.95 | 371. | 1810. |
| 30. | .00 | .00 | .00 | .205 | | | | 1.97 | 367. | 1788. |
| 60. | .00 | .00 | .00 | .205 | | | | 2.33 | 311. | 1515. |
| 75. | .00 | .00 | .00 | .205 | | | | 2.50 | 290. | 1412. |
| 90. | .00 | .00 | .00 | .205 | | | | 2.66 | 272. | 1324. |
| 120. | .00 | .00 | .00 | .205 | | | | 2.98 | 243. | 1185. |
| 167. | .00 | .00 | .00 | .205 | | | | 3.43 | 211. | 1029. |
| 212. | .00 | .00 | .00 | .205 | | | | 3.82 | 190. | 923. |

**Above: Initial Data Prior to Cable Installation**

**Below: 1 Non-Supporting Cable(s) Added,Dia= .750 In ,Wt= .124Lb/F+ .000Lb/F**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0. | .50 | 4.00 | .30 | 2.208 | 3.89 | 2007. | 907. | 3.89 | 2007. | 907. |
| 32. | .50 | .00 | .00 | 1.612 | 3.73 | 1528. | 946. | 3.70 | 1539. | 953. |
| -20. | .00 | .00 | .00 | .329 | 1.94 | 599. | 1820. | 1.76 | 662. | 2010. |
| 0. | .00 | .00 | .00 | .329 | 2.16 | 537. | 1632. | 1.96 | 592. | 1800. |
| 28. | .00 | .00 | .00 | .329 | 2.47 | 471. | 1429. | 2.25 | 516. | 1566. |
| 30. | .00 | .00 | .00 | .329 | 2.49 | 466. | 1417. | 2.27 | 511. | 1552. |
| 60. | .00 | .00 | .00 | .329 | 2.81 | 414. | 1258.* | 2.58 | 450. | 1367. |
| 75. | .00 | .00 | .00 | .329 | 2.96 | 393. | 1194. | 2.73 | 425. | 1291. |
| 90. | .00 | .00 | .00 | .329 | 3.10 | 375. | 1138. | 2.88 | 404. | 1226. |
| 120. | .00 | .00 | .00 | .329 | 3.38 | 344. | 1044. | 3.16 | 368. | 1116. |
| 167. | .00 | .00 | .00 | .329 | 3.79 | 307. | 932. | 3.58 | 325. | 986. |
| 212. | .00 | .00 | .00 | .329 | 4.15 | 281. | 851. | 3.95 | 295. | 894. |

*** Design Condition**

BayRing Sag 0° w/1/2" ICE

BayRing Sag 32° w/No ICE

Sheet 2 of 2

C E G
Consulting Engineers Group Inc.
ENGINEERS & CONSULTANTS
ONE CHARLESVIEW RD. HOPEDALE, MASSACHUSETTS
WWW.CEGCONSULTING.COM

Add Proposed Communication line profiles and data table
09/08/10 PF/TO

*EXISTING CONDITIONS*

*PLAN of LAND in*

*EPSOM, NH*

*Prepared For:* BayRing Communications
359 Corporate Drive
Portsmouth, NH 03801-6808

*SCALE:* AS SHOWN

*Prepared By:*

*Benchmark:*

*Checked By:*
*Drawn By:*
*Designed By:*
*Field By:*
*Sheet:*