

*Manchester NH*

BOSTON AND MAINE CORPORATION, DEBTOR  
ROBERT W. MESERVE AND BENJAMIN H. LACY, TRUSTEES

CONTRACT BUREAU TRANSMITTAL MEMO

DATE OCT 11 1978

FROM: L. R. Mattice  
Director-Contract Bureau

TO: Messrs. S. B. Culliford  
P. W. Carr  
J. J. Nee  
D. J. Hughes  
✓ Boston Div. Supt.-G. F. Gallagher  
~~N. E. Div. Supt. W. V. Furey~~  
Agent- *Manchester, N. H.*  
Agent- *Nashua, N. H.*

Attached for your information is copy of numbered document checked below.

CONTRACT # **60288**

DEED #

CORRESPONDENCE RE CONTRACT #

OPENING NOTICE SENT

CLOSING NOTICE SENT

2014  
C-7

MANCHESTER      NASHUA  
RRP-0005(5)      RRP-0005(6)  
C-2947            C-2948-A

### AGREEMENT

This Agreement is made in duplicate this 3<sup>rd</sup> day of October, 1978, by and between the STATE OF NEW HAMPSHIRE, by its Department of Public Works and Highways, party of the first part, hereinafter called the "State," and ROBERT W. RESERVE and BENJAMIN H. LACY, as Trustees of the property of Boston and Maine Corporation, Debtor, and not individually (see In the Matter of Boston and Maine Corporation, Debtor, U. S. District Court for the District of Massachusetts, Docket No. 70-250-11), with offices at 150 Causeway Street, Boston, Massachusetts, party of the second part, hereinafter called the "Trustees."

#### WITNESSETH:

WHEREAS, the State has the approval of the Department of Transportation, Federal Highway Administration, for two Federal-aid Railroad Safety Projects, one being RRP-0005(5), C-2947 for the reconstruction of four (4) grade crossings and the installation of protective devices on these four (4), plus two (2) more for a total of six (6) in the City of Manchester, County of Hillsborough, the other being RRP-0005(6), C-2948-A for the reconstruction of three (3) grade crossings and the installation of protective devices at both crossings, in the City of Nashua, County of Hillsborough, New Hampshire, and,

WHEREAS, the Commissioner of the New Hampshire Department of Public Works and Highways, hereinafter called the "COMMISSIONER," has prepared plans and specifications for such project marked MANCHESTER RRS-0005(5), C-2947 and NASHUA RRP-0005(6), C-2948-A, which plans and specifications meet with the approval of the Trustees and are on file in the permanent records of said Department of Public Works and Highways, Concord, New Hampshire, and,

WHEREAS, the New Hampshire Public Utilities Commission has issued its orders #13,224, dated July 18, 1978, for Manchester and #13,260, dated August 3, 1978, for Nashua, authorizing the aforementioned installations, and,

WHEREAS, the State desires the assistance of the Trustees in the rebuilding of the crossings and the installation of signals,

NOW THEREFORE, in consideration thereof, the parties hereto mutually agree as follows:

1. The Trustees shall furnish the labor, materials and equipment for the following work:

A. Manchester: Rebuild the following four (4) railroad crossings: (1) Valley Street, AAR-DOT 800-9401, across main line track of the Portsmouth Branch using 85 pound welded rail, including installation of rubber surface and installation of new flashing light signal units. (2) South Main Street, AAR-DOT 53-647E, across track of the Goffstown Branch, including replacing existing pipe under tracks, cleaning and reshaping existing ditches and (make to drain), and installation of two new crossbuck signs. (3) Mammoth Road, AAR-DOT 845-757T, across main line track of the Portsmouth Branch, including installation of new flashing light signal units. (4) Elm Street, AAR-DOT 400-750P, across sidetrack of the Portsmouth Branch including installation of "CAP & DRI" surface and installation of two new crossbuck signs. All crossings will include drainage and sub-base work and using 115 pound welded rail (except Valley Street - 85 pound welded rail) and such new ballast, ties, etc., as may be required.

B. Elm Street track work will be carried easterly to allow for necessary reshaping of parking lot. Limits to be approved in field with Project Engineer.

C. Install two (2) new crossbuck signs at Maple Street crossing AAR-DOT 860-945 U and Beech Street crossing AAR-DOT 860-955 B on the Portsmouth Branch crossing.

All signals and crossbucks to conform to AREA Bulletin No. 7 (Railroad-Highway Grade Crossing Warning Systems, Recommended Practices) and to the plans and estimates, including all detection circuitry and other appurtenances required for a complete installation.

D. Nashua: Rebuild the following Railroad crossings; East Hollis Street AAR-DOT 53-233 T across tracks of the main line and across tracks of the Hillsboro Branch AAR-DOT 844-260 A including installation of rubber surface and rehabilitation of existing Automatic Highway Crossing Protection; Bridge Street AAR-DOT 53-234 R across tracks of the main line including installation of rubber surface and rehabilitation of existing signal units. Includes drainage and sub-base work and using 115 pound welded rail (except AAR-DOT 844-260 A to be 85 pound welded rail) and such new ballast, ties, etc., as may be required. All signals and crossbucks to conform to AREA Bulletin No. 7 (Railroad-Highway Grade Crossing Warning Systems, Recommended Practices) and to the plans and estimates, including all detection circuitry and other appurtenances required for a complete installation.

E. The maintenance of highway traffic. This work shall consist of providing competent flagmen with vests, furnishing, erecting and maintaining traffic signs and delineators at the required locations, in conformity with the dimensions and designs as shown or ordered. At least one-way traffic shall be maintained during the day, except for occasional necessary short traffic stoppages, and two-way traffic shall be maintained during all times that neither party is working on a crossing. If the Railroad finishes all of its work before the City does, the Railroad shall make available to the City the traffic control devices until the City forces complete their work. The devices shall be removed by the Railroad upon the completion of all work and saved for similar future projects.

2. The City shall furnish the labor, materials and equipment for the following work:

A. Pave the crossing and approaches and reconstruct the roadway portion outside the rails, as shown on the plans and estimates.

B. Additional roadway work such as necessary drainage or sight distances as agreed with the Project Engineer.

3. The finished grade of track shall be jointly determined and set by the designated representatives of the Railroad and the State.

4. The work described in paragraph 1 above, will be done by Trustees' forces and is shown in greater detail, along with the limits of work, on the approved plans and in the attached estimates, said plans and estimates being made a part of this Agreement.

5. The Trustees agree to notify the State of the starting and completion dates of the work herebefore described, and to provide the State's Project Engineer on the project with a Utility Report showing the work performed, the classes and hours of labor, equipment, and materials used, the disposition of the materials replaced along with the time and place abandoned or scrapped materials will be available for inspection.

6. The Trustees agree to make the installations hereinbefore proposed, in accordance with the plans mentioned above, including such additions or modifications hereafter approved, in writing, by the Trustees and the Commissioner. The amount of work to be performed by the Trustees including any changes, shall be approved by the Commissioner and the duly authorized representatives of the Federal Government before the work is performed, and the Trustees shall be reimbursed therefore, as hereinafter provided, except that the cost of any such force account or contract work which is not approved as above indicated shall be borne by the Trustees.

7. The Trustees agree to coordinate the installations hereinbefore described with the City's maintenance forces.

8. While the City's maintenance forces are engaged in their work, the Trustees shall provide protection of railroad traffic by flagging during the progress of any work by the State's maintenance forces on, over, under or adjacent to the tracks of the Trustees.

9. The Trustees agree that the material used will be purchased in accordance with the Federal-aid Highway Program Manual, Volume 1, Chapter 4, Section 3 of the Federal Highway Administration, U. S. Department of Transportation, dated April 25, 1975.

10. All cost records of the Trustees pertaining to the project will be subject at any time to inspection by representatives of the State and Federal governments for a period of not less than three years from the date final payment is received by the Trustees.

11. Upon the receipt of satisfactory detailed progress vouchers, or one final voucher, without arbitrary percentage or lump sum addition for overhead expenses, the State agrees to reimburse the Trustees for the costs of preliminary engineering, and for all labor, including flagging, and materials furnished to perform the work as described in the previous paragraphs and as shown on the approved plans, also for maintaining railroad traffic during the construction of this project and for such engineering expenses as are necessary for the general protection of the Trustees' property and operations during construction. Payment shall be made by the State to the Trustees within sixty (60) days after completion and acceptance of the work by the Commissioner. However, the State shall be under no obligation to make payment for the costs of any work, other than preliminary engineering, performed prior to the date the Trustees are authorized in writing by the Commissioner to proceed with such approved work.

12. The Trustees agree to accept the operation, use and maintenance of the crossings and crossing protections (flashing lights and bells), described in paragraph 1 above, and to maintain the crossing protection in an operable approved manner.

13. As defined in Volume 6, Chapter 6, Section 2, Subsection 1 (page 5) of the Federal-aid Highway Program Manual, dated April 25, 1975, there is no Trustees' benefit; therefore, no contribution from the Trustees is requested.

14. State and Federal participation in the cost of the work done under this Agreement shall be computed on the basis of the provisions and regulations of the Federal-aid Highway Program Manual, dated April 25, 1975. The above mentioned Program, including all current amendments and/or revisions, is hereby made a part of this Agreement.

15. It is hereby mutually agreed by the State and the Trustees that when conditions are such that the signals installed under this Agreement are no longer needed at this location and if not reinstalled immediately the signal facilities will be retained and stored by the State. The State will petition the New Hampshire Public Utilities Commission for the reinstallation of these signals by the Trustees at another crossing of a public highway on this Company's line within the State, using such funds, other than Trustees funds, as may be available at that time.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year above written.

Recommended for Approval:

THE STATE OF NEW HAMPSHIRE  
Department of Public Works and Highways

By: William S. Benson  
Highway Design Engineer

By: Reuel W. Webb  
Reuel W. Webb, P. E.  
Deputy Commissioner  
and Chief Engineer

Date: September 29, 1978

Approved:

By: R. W. Meserve  
Asst. Chief Engineer

ROBERT W. MESERVE AND BENJAMIN H. LACY  
Trustees of the Property of the Boston  
and Maine Corporation, Debtor

Date: Sept 29, 1978

By: Robert W. Meserve  
(Signature)  
As Trustee, and not individually

Approved as to form  
B & M Corp. Law Dept.  
JM

Robert W. Meserve  
(Typed Signature)

Benjamin H. Lacy  
(Signature)  
As Trustee, and not individually

Benjamin H. Lacy  
(Typed Signature)

BOSTON AND MAINE CORPORATION, DEBTOR  
Robert W. Meserve and Benjamin H. Lacy, Trustees

MANCHESTER, NEW HAMPSHIRE  
FORCE ACCOUNT ESTIMATE

Reconstruction by the State of New Hampshire of a grade crossing carrying Mammoth Road (NRHCI# 845 757T) across track of the Portsmouth Branch In Manchester, including installation of bituminous surface and installation of a new flashing light signal unit.

Statement of work to be performed by or for the Trustees.

The Trustees will furnish labor, materials and equipment for:

1. Construction - Preliminary Engineering.
2. Construction - Office Engineering.
3. Construction - Field Engineering and Supervision.
4. Construction - Install welded rail, ties, ballast and bituminous surface.
  
10. Accounting.
11. Signal - Preliminary Engineering.
12. Signal - Office Engineering.
13. Signal - Supervision.
14. Signal - Installation of two new flashing light signal units.

| <u>ITEM</u> | <u>LABOR</u> | <u>MATERIAL</u> | <u>SALVAGE</u> | <u>EQUIPMENT</u> | <u>OTHER</u> | <u>TOTAL</u> |
|-------------|--------------|-----------------|----------------|------------------|--------------|--------------|
| 1.          | 724.         |                 |                |                  |              | 814.         |
| 2.          | 2526.        | 150.            |                | 90.              |              | 3056.        |
| 3.          | 2236.        |                 |                | 250.             | 100.         | 2686.        |
| 4.          | 10476.       | 10432.          | (585)          | 450.             |              | 29483.       |
| 10.         | 3940.        |                 |                | 5160.            | 4000.        | 4640.        |
| 11.         | 475.         |                 |                | 700.             |              | 501.         |
| 12.         | 1710.        | 60.             |                |                  | 26.          | 1770.        |
| 13.         | 1596.        |                 |                | 180.             |              | 1776.        |
| 14.         | 17280.       | 14946.          |                | 4782.            |              | 37908.       |

GRAND TOTAL NET ESTIMATED COST. . . . . \$81,734

\*Note #1 - The above cost is for estimate purposes only.  
 Billing will be made on actual cost.

D.J. Hughes  
 Vice President-Engineering

GST/mag  
 No. Billerica, MA  
 August 8, 1977

ENGINEERING DEPARTMENT

ED-2

ESTIMATE

Sheet No. 2066

Location MANCHESTER, N.H. - MAMMOTH RD. CROSSING Date 8/8/77

Description of Work RECONSTRUCTION OF CROSSING (NRHCI# 845 757T)

BITUMINOUS SURFACE

By \_\_\_\_\_

| A, B or R | Acct. No. | DESCRIPTION   | UNIT     | QUANTITY | PRICE | AMOUNT | TOTAL  |
|-----------|-----------|---|----------|----------|-------|--------|--------|
| ITEM 1    |           | PRELIMINARY ENGINEERING                             |          |          |       |        |        |
|           |           | LABOR   | MD       | 6        | 85    | 510    |        |
|           |           | ADDITIVES   |          |          |       | 214    |        |
|           |           | EQUIPMENT   | DAY      | 3        | 30    | 90     | 814    |
| ITEM 2    |           | OFFICE ENGINEERING                                  |          |          |       |        |        |
|           |           | LABOR   | MD       | 24       | 75    | 1800   |        |
|           |           | ADDITIVES   |          |          |       | 756    |        |
|           |           | MATERIAL  | LS       |          |       | 150    |        |
|           |           | EQUIPMENT   | LS       |          |       | 250    |        |
|           |           | OTHER   | LS       |          |       | 100    | 3056   |
| ITEM 3    |           | FIELD ENGINEERING                                   |          |          |       |        |        |
|           |           | LABOR   | MD       | 21       | 75    | 1575   |        |
|           |           | ADDITIVES   |          |          |       | 661    |        |
|           |           | EQUIPMENT   | DAY      | 15       | 30    | 450    | 2686   |
| ITEM 4    |           | FIELD WORK - RECONSTRUCT CROSSING - INSTALL SURFACE |          |          |       |        |        |
|           |           | LABOR   | CREW DAY | 12       | 550   | 6600   |        |
|           |           | ADDITIVES   |          |          |       | 2772   |        |
|           |           | PER DIEM  | CREW DAY | 12       | 92    | 1104   |        |
|           |           | MATERIAL  | SEE LIST |          |       | 10,432 |        |
|           |           | SALVAGE   | LS       |          |       | (585)  |        |
|           |           | EQUIPMENT   | CREW DAY | 12       | 430   | 5160   |        |
|           |           | OTHER   | LS       |          |       | 4000   | 29,483 |
| ITEM 10   |           | ACCOUNTING  |          |          |       |        |        |
|           |           | LABOR   | MD       | 37       | 75    | 2775   |        |
|           |           | ADDITIVES   |          |          |       | 1165   |        |
|           |           | EQUIPMENT   | LS       |          |       | 700    | 1110   |

ESTIMATE

Sheet No. 3 OF 6

Date 8/8/77

Location MANCHESTER, N.H. - MAMMOTH RD.

Description of Work MATERIAL LIST

By \_\_\_\_\_

| A, B<br>or R | Acct.<br>No. | DESCRIPTION                                      | UNIT | QUANTITY | PRICE | AMOUNT | TOTAL     |
|--------------|--------------|--|------|----------|-------|--------|-----------|
|              |              | 115# RAIL  | FT.  | 468      | 6     | 2808   |           |
|              |              | 115# TIE PLATES                                  | EA.  | 312      | 4     | 1248   |           |
|              |              | 115# RAIL ANCHORS                                | EA.  | 624      | 1     | 624    |           |
|              |              | WELDS  | EA.  | 10       | 50    | 500    |           |
|              |              | TIE PADS   | EA.  | 312      | 1     | 312    |           |
|              |              | TIES   | EA.  | 156      | 15    | 2340   |           |
|              |              | SPIKES   | KEG  | 4        | 60    | 240    |           |
|              |              | NELSON CHAIR                                     | EA.  | 64       | 7     | 448    |           |
|              |              | 85# RAIL   | FT.  | 188      | 2     | 376    |           |
|              |              | STEP JOINTS                                      | EA.  | 4        | 150   | 600    |           |
|              |              | STONE <small>INCLUDING<br/>FILTER FABRIC</small> | TON  | 234      | 4     | 936    |           |
|              |              | SWITCH TIMBER                                    | FBM  | —        | 400   | —      |           |
|              |              | RUBBER PADS                                      | FT.  | —        | 250   | —      |           |
|              |              | TOTAL  |      |          |       |        | \$ 10,432 |



# BOSTON AND MAINE CORP.

## C & S PORTION OF FORCE ACCOUNT ESTIMATE

LOCATION: MANCHESTER, N. H.

DATE: 6-30-77

CROSSING: MAHMOOTH ROAD - CROSSING # 845-757 T

## DESCRIPTION OF WORK:

INSTALLATION OF TWO NEW FLASHING LIGHT SIGNAL  
UNITS

## C'S ITEM:

TOTAL

## 11. PRELIMINARY ENGINEERING

501.00

A. LABOR 475.00

B. EXPENSES 26.00

## 12. OFFICE ENGINEERING

1770.00

A. LABOR 1710.00

B. MATERIAL 60.00

## 13. C'S FIELD SUPERVISION

1776.00

A. LABOR 1596.00

B. EQUIPMENT 180.00

## 14. C'S FIELD WORK

37,008.00

A. LABOR 17,280.00

B. MATERIAL 14,946.00

C. EQUIPMENT 4,782.00

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 C'S PROJECT TOTAL \$ 41,055.00

NOTE: ESTIMATE ANTICIPATES PROJECT INSTALLATION IN SPRING 1977  
ALL ITEMS HAVE BEEN PRICED ACCORDINGLY!

LOCATION: MANCHESTER, N.H.  
 CROSSING HAMMOTH ROAD  
 DESCRIPTION OF IMPROVEMENT:  
 INSTALLATION OF TWO NEW FLASHING LIGHT  
 SIGNAL UNITS

| <u>ITEM</u>                     | <u>QUANTITY</u> | <u>AMOUNT</u>       |
|---------------------------------|-----------------|---------------------|
| PRELIMINARY ENGINEERING         |                 |                     |
| DIRECT LABOR                    | <u>5 MD</u>     | <u>330.00</u>       |
| + OVERHEAD                      |                 | <u>145.00</u>       |
| EXPENSES                        |                 | <u>26.00</u>        |
| TOTAL                           |                 | <u>\$ 501.00</u>    |
| OFFICE ENGINEERING              |                 |                     |
| DIRECT LABOR                    | <u>18 MD</u>    | <u>1188.00</u>      |
| + OVERHEAD                      |                 | <u>522.00</u>       |
| MATERIAL                        |                 | <u>60.00</u>        |
| TOTAL                           |                 | <u>\$ 1770.00</u>   |
| SUPERVISION                     |                 |                     |
| DIRECT LABOR                    | <u>12 MD</u>    | <u>1108.00</u>      |
| + OVERHEAD                      |                 | <u>488.00</u>       |
| EQUIPMENT                       |                 | <u>180.00</u>       |
| TOTAL                           |                 | <u>\$ 1776.00</u>   |
| MATERIAL                        |                 |                     |
| AUTOMATIC GATE SIGNALS          |                 | <u>-</u>            |
| AUTOMATIC FLASHING LIGHT SIGNAL |                 | <u>1664.00</u>      |
| BATTERIES JOINTS CABLE          |                 | <u>5361.00</u>      |
| CASES AND RELAYS                |                 | <u>4701.00</u>      |
| POLE LINE MATERIAL              |                 | <u>231.00</u>       |
| STORES EXPENSE                  | <u>6%</u>       | <u>717.00</u>       |
| MASS. SALES TAX                 | <u>5%</u>       | <u>598.00</u>       |
| TRANSPORTATION OF MATERIAL      | <u>14%</u>      | <u>1674.00</u>      |
| TOTAL                           |                 | <u>\$ 14,946.00</u> |
| LABOR                           |                 |                     |
| DIRECT LABOR                    | <u>180 MD</u>   | <u>12,000.00</u>    |
| + OVERHEAD                      |                 | <u>5,280.00</u>     |
| TOTAL                           |                 | <u>\$ 17,280.00</u> |
| EQUIPMENT                       |                 |                     |
|                                 |                 | <u>\$ 4782.00</u>   |
| TOTAL SIGNAL PROJECT COST =     |                 | <u>\$ 41,055.00</u> |

MAMMOTH RD.

500' = 34 SECS AT 10MPH

575' = 39 SECS AT 10MPH

#A145

PARKING LOT

#145

H.D.D.

INSTALLATION OF TWO  
NEW FLASHER UNITS

BOSTON AND MAINE CORP.  
MAMMOTH RD.  
STATE ROUTE 28-A  
MANCHESTER, N.H.  
PORTSMOUTH BRANCH  
NH.R.C.I. # 845-757 T

A.H.C.P. INSTALLED 10-4-37

NOT TO SCALE

OFFICE OF CHIEF ENGINEER  
COMMUNICATIONS AND SIGNAL

Robert W. Meserve and Benjamin H. Lacy, Trustees

## MANCHESTER, NEW HAMPSHIRE

FORCE ACCOUNT ESTIMATE

Reconstruction by the State of New Hampshire of a grade crossing carrying South Main St. (NRHCI53 987F) across track of the Goffstown Branch in Manchester, including installation of bituminous surface and installation of two new crossbuck signs.

Statement of work to be performed by or for the Trustees.

The Trustees will furnish labor, materials and equipment for:

1. Construction - Preliminary Engineering.
2. Construction - Office Engineering.
3. Construction - Field Engineering & Supervision.
4. Construction - Install welded rail, ties, ballast and bituminous surface.
10. Accounting.
20. B&B - Install two (2) new crossbuck signs using the encapsulated lens reflective sheeting.

| <u>ITEM</u>                              | <u>LABOR</u> | <u>MATERIAL</u> | <u>SALVAGE</u> | <u>EQUIPMENT</u> | <u>OTHER</u> | <u>TOTAL</u> |
|--|--------------|-----------------|----------------|------------------|--------------|--------------|
| 1.                                       | 724.         |                 |                | 90.              |              | 814.         |
| 2.                                       | 2556.        | 150.            |                | 250.             | 100.         | 3056.        |
| 3.                                       | 2236.        |                 |                | 450.             |              | 2686.        |
| 4.                                       | 10476.       | 10554.          | (585)          | 5160.            | 4000.        | 29595.       |
| 10.                                      | 2556.        |                 |                | 500.             |              | 3056.        |
| 20.                                      | 930.         | 780.            |                | 183.             |              | <u>1893.</u> |
| GRAND TOTAL NET ESTIMATED COST . . . . . |              |                 |                |                  |              | \$41100.     |

\*Note #1 - The above cost is for estimate purposes only.  
Billing will be made on actual cost.

D.J. Hughes  
Vice President-Engineering

No. Billerica, MA  
August 9, 1977  
GST/mag

ENGINEERING DEPARTMENT

Location MANCHESTER, N.H. - S. MAIN ST. X-ING ESTIMATE Sheet No. 25

Description of Work RECONSTRUCT CROSSING (#53987F) - BITUMINOUS SURFACE - INSTALL TWO CROSSBUCK SIGNS Date 8/9 By \_\_\_\_\_

| A, B or R | Acct. No. | DESCRIPTION   | UNIT     | QUANTITY | PRICE | AMOUNT |
|-----------|-----------|---|----------|----------|-------|--------|
| ITEM 1    |           | PRELIMINARY ENGINEERING                             |          |          |       |        |
|           |           | LABOR   |          |          |       |        |
|           |           | ADDITIVES   | MD       | 6        | 85    | 510    |
|           |           | EQUIPMENT   |          |          |       | 214    |
|           |           |   | DAY      | 3        | 30    | 90     |
| ITEM 2    |           | OFFICE ENGINEERING                                  |          |          |       |        |
|           |           | LABOR   |          |          |       |        |
|           |           | ADDITIVES   | MD       | 24       | 75    | 1800   |
|           |           | MATERIAL  |          |          |       | 756    |
|           |           | EQUIPMENT   | LS       |          |       | 150    |
|           |           | OTHER   | LS       |          |       | 250    |
|           |           |   | LS       |          |       | 100    |
| ITEM 3    |           | FIELD ENGINEERING                                   |          |          |       | 305    |
|           |           | LABOR   |          |          |       |        |
|           |           | ADDITIVES   | MD       | 21       | 75    | 1575   |
|           |           | EQUIPMENT   |          |          |       | 661    |
|           |           |   | DAY      | 15       | 30    | 450    |
| ITEM 4    |           | FIELD WORK - RECONSTRUCT CROSSING - INSTALL SURFACE |          |          |       | 2686   |
|           |           | LABOR   | CREW DAY | 12       | 550   | 6600   |
|           |           | ADDITIVES   |          |          |       | 2772   |
|           |           | PER DIEM  | CREW DAY | 12       | 92    | 1104   |
|           |           | MATERIAL  | SEE LIST |          |       | 10,544 |
|           |           | SALVAGE   | LS       |          |       | (585)  |
|           |           | EQUIPMENT   | CREW DAY | 12       | 430   | 5160   |
|           |           | OTHER   | LS       |          |       | 4000   |
| ITEM 10   |           | ACCOUNTING  |          |          |       | 29,595 |
|           |           | LABOR   |          |          |       |        |
|           |           | ADDITIVES   | MD       | 24       | 75    | 1800   |
|           |           | EQUIPMENT   |          |          |       | 75     |

Location MANCHESTER, N.H. - S. MAIN ST. X-ING Date 8/9/77

Description of Work RECONSTRUCT CROSSING (#53 987 F) -

INSTALL TWO CROSSBUCK SIGNS By \_\_\_\_\_

| A, B or R | Acct. No. | DESCRIPTION          | UNIT | QUANTITY | PRICE | AMOUNT | TOTAL     |
|-----------|-----------|----------------------|------|----------|-------|--------|-----------|
| 20        | B&B       | INSTALL TWO X-BUCKS  |      |          |       |        |           |
|           |           | LABOR                | DAY  | 3        | 220   | 660    |           |
|           |           | ADDITIVES            |      |          |       | 270    |           |
|           |           | MATERIAL             |      |          |       |        |           |
|           |           | POSTS & X-BUCK SIGNS | SET  | 2        | 325   | 650    |           |
|           |           | HARDWARE & MISC.     | LS   |          |       | 80     |           |
|           |           | OVERHEAD             | LS   |          |       | 50     |           |
|           |           | EQUIPMENT            |      |          |       |        |           |
|           |           | TRUCK                | DAY  | 3        | 25    | 75     |           |
|           |           | COMPRESSOR           | DAY  | 2        | 32    | 64     |           |
|           |           | PAVING BREAKER       | DAY  | 2        | 9     | 18     |           |
|           |           | GENERATOR            | DAY  | 1        | 20    | 20     |           |
|           |           | DRILL                | DAY  | 1        | 6     | 6      | 1893      |
|           |           | GRAND TOTAL          |      |          |       |        | \$ 41,100 |

## ENGINEERING DEPARTMENT

Sheet No. 4 OF 4Location MANCHESTER, N.H. - S. MAIN ST X-ING ESTIMATE Date 8/9/77Description of Work MATERIAL LIST

By \_\_\_\_\_

| A, B<br>or R | Acct.<br>No. | DESCRIPTION                                      | UNIT | QUANTITY | PRICE | AMOUNT | TOTAL    |
|--------------|--------------|--|------|----------|-------|--------|----------|
|              |              | 115 # RAIL                                       | FT.  | 468      | 6     | 2808   |          |
|              |              | 115 # TIE PLATES                                 | EA.  | 312      | 4     | 1248   |          |
|              |              | 115 # RAIL ANCHORS                               | EA.  | 624      | 1     | 624    |          |
|              |              | WELDS  | EA.  | 10       | 50    | 500    |          |
|              |              | TIE PADS   | EA.  | 312      | 1     | 312    |          |
|              |              | TIES   | EA.  | 156      | 15    | 2340   |          |
|              |              | SPIKES   | KEG  | 4        | 60    | 240    |          |
|              |              | NELSON CHAIR                                     | EA.  | 72       | 7     | 504    |          |
|              |              | 85# RAIL   | FT.  | 216      | 2     | 432    |          |
|              |              | STEP JOINTS                                      | EA.  | 4        | 150   | 600    |          |
|              |              | STONE <small>INCLUDING<br/>FILTER FABRIC</small> | TON  | 234      | 4     | 936    |          |
|              |              | SWITCH TIMBER                                    | FBM  | —        | 400   | —      |          |
|              |              | RUBBER PADS                                      | FT.  | —        | 250   | —      |          |
|              |              | TOTAL  |      |          |       |        | \$10,544 |

BOSTON AND MAINÉ CORPORATION, DEBTOR  
Robert W. Meserve and Benjamin H. Lacy, Trustees

MANCHESTER, N.H.  
FORCE ACCOUNT ESTIMATE

Installation by the State of New Hampshire of two (2) new crossbuck signs at Maple Street crossing (860 954U) and Birch Street crossing (860 955B) on the Portsmouth Branch in Manchester, New Hampshire.

Statement of work to be performed by or for the Trustees.

The Trustees will furnish labor, materials and equipment for:

1. Preliminary Engineering.
2. Office Engineering.
10. Accounting.
20. Install two (2) new crossbuck signs using the encapsulated lens reflective sheeting at two crossings in Manchester.

| <u>ITEM</u>                    | <u>LABOR</u> | <u>MATERIAL</u> | <u>SALVAGE</u> | <u>EQUIPMENT</u> | <u>OTHER</u> | <u>TOTAL</u> |
|--------------------------------|--------------|-----------------|----------------|------------------|--------------|--------------|
| 1.                             | 242.         |                 |                |                  |              | 242.         |
| 2.                             | 214.         |                 |                | 44.              |              | 258.         |
| 10.                            | 214.         |                 |                | 44.              |              | 258.         |
| 20.                            | 1860.        | 1560.           |                | 366.             |              | <u>3786.</u> |
| GRAND TOTAL NET ESTIMATED COST |              |                 |                |                  |              | \$4544.      |

\*Note #1 - The above cost is for estimate purposes only.  
Billing will be made on actual cost.

D.J. Hughes  
Vice President-Engineering

No. Billerica, MA  
August 8, 1977  
GST/mag



Location MANCHESTER, N.H. - MAPLE ST. X-ING ESTIMATE Date 8/8/77

Description of Work PROJECT NO. RRP-0005(S), C-2947-A : INSTALL  
2 CROSSBUCKS ON BREAKAWAY POSTS (# 860 954U) By

| A, B<br>or R | Acct.<br>No. | DESCRIPTION             | UNIT | QUANTITY | PRICE | AMOUNT | TOTAL |
|--------------|--------------|-------------------------|------|----------|-------|--------|-------|
| ITEM         | 1            | PRELIMINARY ENGINEERING |      |          |       |        |       |
|              |              | LABOR                   | MD   | 1        | 85    | 85 -   |       |
|              |              | ADDITIVES               |      |          |       | 36 -   |       |
|              |              | TOTAL                   |      |          |       |        | 121   |
| ITEM         | 2            | OFFICE ENGINEERING      |      |          |       |        |       |
|              |              | LABOR                   | MD   | 1        | 75    | 75 -   |       |
|              |              | ADDITIVES               |      |          |       | 32 -   |       |
|              |              | EQUIPMENT               |      |          |       | 22 -   |       |
|              |              | TOTAL                   |      |          |       |        | 129   |
| ITEM         | 10           | ACCOUNTING              |      |          |       |        |       |
|              |              | LABOR                   | MD   | 1        | 75    | 75 -   |       |
|              |              | ADDITIVES               |      |          |       | 32 -   |       |
|              |              | EQUIPMENT               |      |          |       | 22 -   |       |
|              |              | TOTAL                   |      |          |       |        | 129   |
| ITEM         | 20           | B&B - INSTALL X-BUCKS   |      |          |       |        |       |
|              |              | LABOR                   | DAY  | 3        | 220   | 660 -  |       |
|              |              | ADDITIVES               |      |          |       | 270 -  |       |
|              |              | MATERIAL                |      |          |       |        |       |
|              |              | POSTS & X-BUCK SIGNS    | SET  | 2        | 325   | 650 -  |       |
|              |              | HARDWARE & MISC.        | L.S. |          |       | 80 -   |       |
|              |              | OVERHEAD                | L.S. |          |       | 50 -   |       |
|              |              | EQUIPMENT               |      |          |       |        |       |
|              |              | TRUCK                   | DAY  | 3        | 25    | 75 -   |       |
|              |              | COMPRESSOR              | DAY  | 2        | 32    | 64 -   |       |
|              |              | PAVING BREAKER          | DAY  | 2        | 9     | 18 -   |       |
|              |              | GENERATOR               | DAY  | 1        | 20    | 20 -   |       |
|              |              | DRILL                   | DAY  | 1        | 6     | 6 -    |       |
|              |              | TOTAL                   |      |          |       |        | 1893  |
|              |              | GRAND TOTAL             |      |          |       |        | 2272  |

## ESTIMATE

Location MANCHESTER, N.H. - BIRCH ST. X-ING Date 8/8/77Description of Work PROJECT NO. RRP-0005(5), C-2947-A: INSTALL 2CROSSBUCKS ON BREAKAWAY POSTS (# 860 955 B) By \_\_\_\_\_

| A, B<br>or R | Acct.<br>No. | DESCRIPTION             | UNIT | QUANTITY | PRICE | AMOUNT | TOTAL  |
|--------------|--------------|-------------------------|------|----------|-------|--------|--------|
| ITEM 1       |              | PRELIMINARY ENGINEERING |      |          |       |        |        |
|              |              | LABOR                   | MD   | 1        | 85    | 85 -   |        |
|              |              | ADDITIVES               |      |          |       | 36 -   |        |
|              |              | TOTAL                   |      |          |       |        | 121    |
| ITEM 2       |              | OFFICE ENGINEERING      |      |          |       |        |        |
|              |              | LABOR                   | MD   | 1        | 75    | 75 -   |        |
|              |              | ADDITIVES               |      |          |       | 32 -   |        |
|              |              | EQUIPMENT               |      |          |       | 22 -   |        |
|              |              | TOTAL                   |      |          |       |        | 129 -  |
| ITEM 10      |              | ACCOUNTING              |      |          |       |        |        |
|              |              | LABOR                   | MD   | 1        | 75    | 75 -   |        |
|              |              | ADDITIVES               |      |          |       | 32 -   |        |
|              |              | EQUIPMENT               |      |          |       | 22 -   |        |
|              |              | TOTAL                   |      |          |       |        | 129 -  |
| ITEM 20      |              | B&B - INSTALL X-BUCKS   |      |          |       |        |        |
|              |              | LABOR                   | DAY  | 3        | 220   | 660 -  |        |
|              |              | ADDITIVES               |      |          |       | 270 -  |        |
|              |              | MATERIAL                |      |          |       |        |        |
|              |              | POSTS & X-BUCK SIGNS    | SET  | 2        | 325   | 650 -  |        |
|              |              | HARDWARE & MISC.        | L.S. |          |       | 80 -   |        |
|              |              | OVERHEAD                | L.S. |          |       | 50 -   |        |
|              |              | EQUIPMENT               |      |          |       |        |        |
|              |              | TRUCK                   | DAY  | 3        | 25    | 75 -   |        |
|              |              | COMPRESSOR              | DAY  | 2        | 32    | 64 -   |        |
|              |              | PAVING BREAKER          | DAY  | 2        | 9     | 18 -   |        |
|              |              | GENERATOR               | DAY  | 1        | 20    | 20 -   |        |
|              |              | DRILL                   | DAY  | 1        | 6     | 6 -    |        |
|              |              | TOTAL                   |      |          |       |        | 1893 - |
|              |              | GRAND TOTAL             |      |          |       |        | 2272 - |

MANCHESTER, NEW HAMPSHIRE  
FORCE ACCOUNT ESTIMATE

Reconstruction by the State of New Hampshire of a grade crossing carrying Elm Street (NRHCI#400 750 P) across sidetrack of the Portsmouth Branch in Manchester, including installation of "saf&dri" surface and installation of two new crossbuck signs.

Statement of work will be performed by or for the Trustees. The Trustees will furnish labor, materials and equipment for:

- 1. Construction - Preliminary Engineering.
- 2. Construction - Office Engineering.
- 3. Construction - Field Engineering and Supervision.
- 4. Construction - Install welded rail, ties, ballast and "saf&dri" surface.
- 10. Accounting.
- 20. B&B - Install two (2) new crossbuck signs using encapsulated lens reflective sheeting.

| <u>ITEM</u>                           | <u>LABOR</u> | <u>MATERIAL</u> | <u>SALVAGE</u> | <u>EQUIP.</u> | <u>OTHER</u> | <u>TOTAL</u> |
|---------------------------------------|--------------|-----------------|----------------|---------------|--------------|--------------|
| 1.                                    | 724.         |                 |                | 90.           |              | 814.         |
| 2.                                    | 3195.        | 100.            |                | 400.          | 100.         | 3795.        |
| 3.                                    | 2556.        |                 |                | 540.          |              | 3096.        |
| 4.                                    | 13095.       | 31656.          | (390)          | 6450.         | 4000.        | 54811.       |
| 10.                                   | 3195.        |                 |                | 650.          |              | 3845.        |
| 20.                                   | 930.         | 780.            |                | 183.          |              | <u>1893.</u> |
| GRAND TOTAL NET ESTIMATED COST. . . . |              |                 |                |               |              | \$68254.     |

\*Note #1 - the above cost is for estimate purposes only.  
Billing will be made on actual cost.

D.J. Hughes  
Vice President-Engineering

No. Billerica, MA  
August 9, 1977  
GST/mag

## ESTIMATE

Sheet No. 2 OF 4

Location MANCHESTER, N.H. - ELM ST. CROSSING Date 8/9/77  
 Description of Work RECONSTRUCT CROSSING (#400 750 P) - SAF & DRI SURFACE - INSTALL TWO X-BUCK SIGNS By \_\_\_\_\_

| A, B or R | Acct. No. | DESCRIPTION   | UNIT     | QUANTITY | PRICE | AMOUNT | TOTAL    |
|-----------|-----------|---|----------|----------|-------|--------|----------|
| EM        | 1         | PRELIMINARY ENGINEERING                             |          |          |       |        |          |
|           |           | LABOR   | MD       | 6        | 85    | 510    |          |
|           |           | ADDITIVES   |          |          |       | 214    |          |
|           |           | EQUIPMENT   | DAY      | 3        | 30    | 90     | 814 -    |
| EM        | 2         | OFFICE ENGINEERING                                  |          |          |       |        |          |
|           |           | LABOR   | MD       | 30       | 75    | 2250   |          |
|           |           | ADDITIVES   |          |          |       | 945    |          |
|           |           | MATERIAL  | LS       |          |       | 100    |          |
|           |           | EQUIPMENT   | LS       |          |       | 400    |          |
|           |           | OTHER   | LS       |          |       | 100    | 3795 -   |
| EM        | 3         | FIELD ENGINEERING                                   |          |          |       |        |          |
|           |           | LABOR   | MD       | 24       | 75    | 1800   |          |
|           |           | ADDITIVES   |          |          |       | 756    |          |
|           |           | EQUIPMENT   | DAY      | 18       | 30    | 540    | 3096 -   |
| EM        | 4         | FIELD WORK - RECONSTRUCT CROSSING - INSTALL SURFACE |          |          |       |        |          |
|           |           | LABOR   | CREW DAY | 15       | 550   | 8250   |          |
|           |           | ADDITIVES   |          |          |       | 3465   |          |
|           |           | PER DIEM  | CREW DAY | 15       | 92    | 1380   |          |
|           |           | MATERIAL  | SEE LIST |          |       | 31,656 |          |
|           |           | SALVAGE   | LS       |          |       | (390)  |          |
|           |           | EQUIPMENT   | CREW DAY | 15       | 430   | 6450   |          |
|           |           | OTHER   | LS       |          |       | 4000   | 54,811 - |
| EM        | 10        | ACCOUNTING  |          |          |       |        |          |
|           |           | LABOR   | MD       | 30       | 75    | 2250   |          |
|           |           | ADDITIVES   |          |          |       | 945    |          |
|           |           | EQUIPMENT   | LS       |          |       | 650    | 3845 -   |

ESTIMATE

Location MANCHESTER, N.H. - Elm St. Crossing Date 8/9/77

Description of Work RECONSTRUCT CROSSING - INSTALL TWO CROSSBUCK SIGNS By \_\_\_\_\_

| A, B or R | Acct. No. | DESCRIPTION               | UNIT | QUANTITY | PRICE | AMOUNT | TOTAL       |
|-----------|-----------|---------------------------|------|----------|-------|--------|-------------|
| EM        | 20        | B&B - INSTALL TWO X-BUCKS |      |          |       |        |             |
|           |           | LABOR                     | DAY  | 3        | 220   | 660    |             |
|           |           | ADDITIVES                 |      |          |       | 270    |             |
|           |           | MATERIAL                  |      |          |       |        |             |
|           |           | POSTS & X-BUCK SIGNS      | SET  | 2        | 325   | 650    |             |
|           |           | HARDWARE & MISC.          | LS   |          |       | 80     |             |
|           |           | OVERHEAD                  | LS   |          |       | 50     |             |
|           |           | EQUIPMENT                 |      |          |       |        |             |
|           |           | TRUCK                     | DAY  | 3        | 25    | 75     |             |
|           |           | COMPRESSOR                | DAY  | 2        | 32    | 64     |             |
|           |           | PAVING BREAKER            | DAY  | 2        | 9     | 18     |             |
|           |           | GENERATOR                 | DAY  | 1        | 20    | 20     |             |
|           |           | DRILL                     | DAY  | 1        | 6     | 6      | 1893 -      |
|           |           | GRAND TOTAL               |      |          |       |        | \$ 68,254 - |



BOSTON AND MAINE CORPORATION, DEBTOR

Robert W. Meserve and Benjamin H. Lacy, Trustees

Reconstruction by the State of New Hampshire of a grade crossing carrying Valley Street (NRHCI #860 940L) across sidetrack of the Portsmouth Branch in Manchester, including installation of rubber surface and installation of new flashing light signal units.

Statement of work to be performed by or for the Trustees.

The Trustees will furnish labor, materials and equipment for:

1. Construction - Preliminary Engineering
2. Construction - Office Engineering
3. Construction - Field Engineering and Supervision
4. Construction - Install welded rail, ties, ballast and rubber surface.
10. Accounting
11. Signal - Preliminary Engineering
12. Signal - Office Engineering
13. Signal - Supervision
14. Signal - Installation of two new flashing light signal units.

| <u>ITEM</u> | <u>LABOR</u> | <u>MATERIAL</u> | <u>SALVAGE</u> | <u>EQUIPMENT</u> | <u>OTHER</u> | <u>TOTAL</u> |
|-------------|--------------|-----------------|----------------|------------------|--------------|--------------|
| 1.          | 724          |                 |                | 90               |              | 814          |
| 2.          | 4260         | 200             |                | 400              | 200          | 5060         |
| 3.          | 3089         |                 |                | 690              |              | 3779         |
| 4.          | 16,460       | 35,190          | (2000)         | 8600             | 3000         | 61,250       |
| 10.         | 3195         |                 |                | 600              |              | 3795         |
| 11.         | 475          |                 |                |                  | 26           | 501          |
| 12.         | 1710         | 53              |                |                  |              | 1763         |
| 13.         | 1596         |                 |                | 198              |              | 1794         |
| 14.         | 17,280       | 20,356          |                | 4782             |              | 42,418       |

GRAND TOTAL NET ESTIMATED COST \$121,174

\*NOTE #1 - The above cost is for estimate purposes only.  
Billing will be made on actual cost.

D. J. HUGHES  
Vice President Engineering

GST/cjp

No. Billerica, MA  
July 20, 1978

ENGINEERING DEPARTMENT

ED-

Sheet No. 2 OF 6

Location MANCHESTER, N.H. - VALLEY ST.

ESTIMATE

Date 7/14/78

Description of Work RECONSTRUCT CROSSING (# 860 940 L) - INSTALL RUBBER SURFACE

By \_\_\_\_\_

| A, B or R | Acct. No. | DESCRIPTION                       | UNIT            | QUANTITY | PRICE | AMOUNT | TOTAL  |
|-----------|-----------|-----------------------------------|-----------------|----------|-------|--------|--------|
| ITEM 1    |           | PRELIMINARY ENGINEERING           |                 |          |       |        |        |
|           |           | LABOR                             | MD              | 6        | 85    | 510    |        |
|           |           | O.H.                              |                 |          |       | 214    |        |
|           |           | EQPT                              | DAY             | 3        | 30    | 90     | 814    |
| ITEM 2    |           | OFFICE ENGINEERING                |                 |          |       |        |        |
|           |           | LABOR                             | MD              | 40       | 75    | 3000   |        |
|           |           | O.H.                              |                 |          |       | 1260   |        |
|           |           | MATERIAL                          | LS              |          |       | 200    |        |
|           |           | EQPT                              | LS              |          |       | 400    |        |
|           |           | OTHER                             | LS              |          |       | 200    | 5060   |
| ITEM 3    |           | FIELD ENGINEERING                 |                 |          |       |        |        |
|           |           | LABOR                             | MD              | 29       | 75    | 2175   |        |
|           |           | O.H.                              |                 |          |       | 914    |        |
|           |           | EQPT                              | DAY             | 23       | 30    | 690    | 3779   |
| ITEM 4    |           | FIELD WORK - RECONSTRUCT CROSSING |                 |          |       |        |        |
|           |           | LABOR                             | CREW DAY        | 20       | 550   | 11,000 |        |
|           |           | O.H.                              |                 |          |       | 4620   |        |
|           |           | PER DIEM                          | CREW DAY        | 20       | 92    | 1840   |        |
|           |           | MATERIAL                          | SEE LIST        |          |       | 35,190 |        |
|           |           | SALVAGE                           | LS              |          |       | (2000) |        |
|           |           | EQPT                              | CREW DAY        | 20       | 430   | 8600   |        |
|           |           | OTHER                             | LS <sup>2</sup> |          |       | 3000   | 62,250 |
| ITEM 10   |           | ACCOUNTING                        |                 |          |       |        |        |
|           |           | LABOR                             | MD              | 30       | 75    | 2250   |        |
|           |           | O.H.                              |                 |          |       | 945    |        |
|           |           | EQPT                              | LS              |          |       | 600    | 3795   |





# BOSTON AND MAINE CORP

## C & S PORTION OF FORCE ACCOUNT ESTIMATE

LOCATION : MANCHESTER, N. H.

DATE : 7-13-77

CROSSING : VALLEY ST. - CROSSING \* 860-990-L

## DESCRIPTION OF WORK:

INSTALLATION OF NEW AUTOMATIC HIGHWAY CROSSING  
PROTECTION - TWO NEW FLASHING LIGHT SIGNALS TO BE  
INSTALLED

| C'S ITEM:                   | TOTAL                          |
|-----------------------------|--------------------------------|
| 11. PRELIMINARY ENGINEERING | 501.00                         |
| A. LABOR                    | 475.00                         |
| B. EXPENSES                 | 26.00                          |
|                             | 1763.00                        |
| 12. OFFICE ENGINEERING      |                                |
| A. LABOR                    | 1710.00                        |
| B. MATERIAL                 | 53.00                          |
|                             | 1794.00                        |
| 13. C'S FIELD SUPERVISION   |                                |
| A. LABOR                    | 1596.00                        |
| B. EQUIPMENT                | 198.00                         |
|                             | 42,418.00                      |
| 14. C'S FIELD WORK          |                                |
| A. LABOR                    | 17,280.00                      |
| B. MATERIAL                 | 20,356.00                      |
| C. EQUIPMENT                | 4,782.00                       |
|                             |                                |
|                             | C&S PROJECT TOTAL \$ 46,476.00 |

NOTE: 1) ESTIMATE ANTICIPATES PROJECT INSTALLATION IN SPRING 1978.  
ALL ITEMS HAVE BEEN PRICED ACCORDINGLY!

2) THIS CROSSING HAS NO AUTOMATIC PROTECTION PRESENTLY. PRIOR TO COMMENCEMENT OF THIS PROJECT, AN AGREEMENT SHOULD BE REACHED AS TO THE MAINTENANCE OF THE SIGNAL EQUIPMENT

LOCATION: MANCHESTER, N. H.

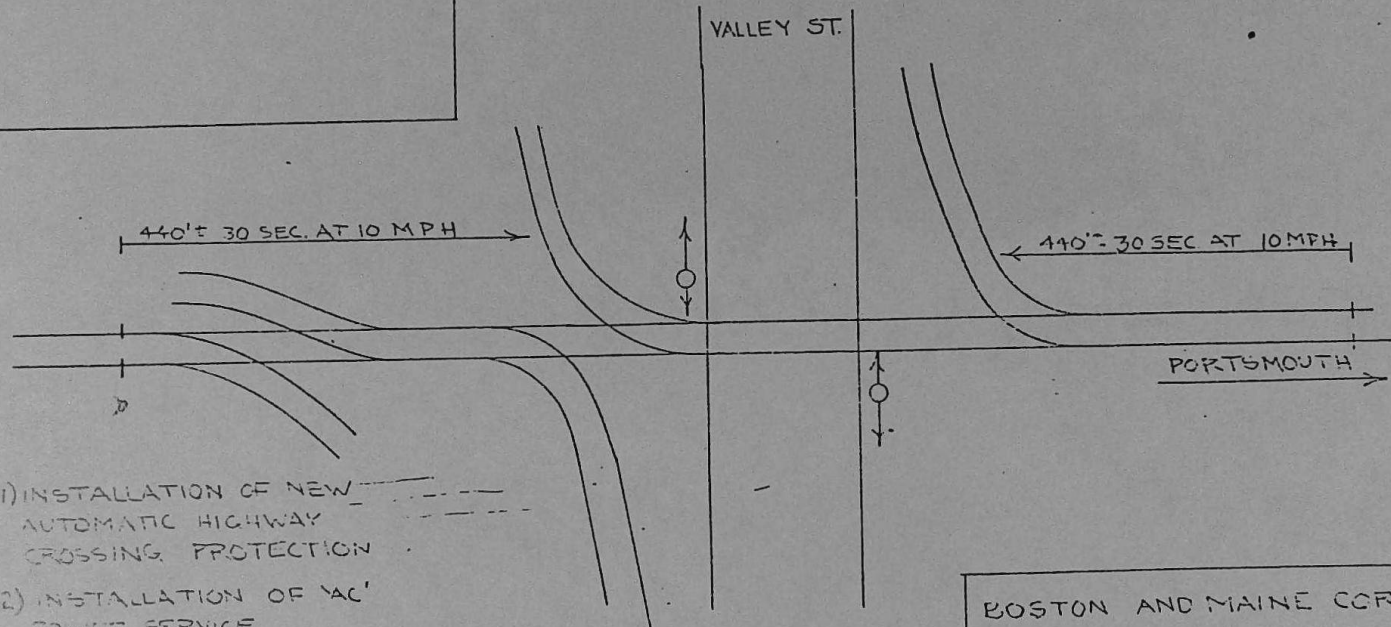
CROSSING VALLEY ST.

DESCRIPTION OF IMPROVEMENTS:

INSTALLATION OF AUTOMATIC HIGHWAY CROSSING PROTECTION.

| ITEM                            | QUANTITY      | AMOUNT             |
|---------------------------------|---------------|--------------------|
| PRELIMINARY ENGINEERING         |               |                    |
| DIRECT LABOR                    | <u>5 MD</u>   | <u>330.00</u>      |
| + OVERHEAD                      |               | <u>145.00</u>      |
| EXPENSES                        |               | <u>26.00</u>       |
| TOTAL                           |               | <u>\$501.00</u>    |
| OFFICE ENGINEERING              |               |                    |
| DIRECT LABOR                    | <u>10 MD</u>  | <u>1108.00</u>     |
| + OVERHEAD                      |               | <u>522.00</u>      |
| MATERIAL                        |               | <u>53.00</u>       |
| TOTAL                           |               | <u>\$1763.00</u>   |
| SUPERVISION                     |               |                    |
| DIRECT LABOR                    | <u>12 MD</u>  | <u>1105.00</u>     |
| + OVERHEAD                      |               | <u>488.00</u>      |
| EQUIPMENT                       |               | <u>198.00</u>      |
| TOTAL                           |               | <u>1794.00</u>     |
| MATERIAL                        |               |                    |
| AUTOMATIC GATE SIGNALS          |               | <u>1538.00</u>     |
| AUTOMATIC FLASHING LIGHT SIGNAL |               | <u>8258.00</u>     |
| BATTERIES JOINTS CABLE          |               | <u>4773.00</u>     |
| CASES AND RELAYS                |               | <u>1716.00</u>     |
| SWITCH MATERIAL                 |               | <u>977.00</u>      |
| STORES EXPENSE                  | <u>6%</u>     | <u>814.00</u>      |
| MASS. SALES TAX                 | <u>5%</u>     | <u>2280.00</u>     |
| TRANSPORTATION OF MATERIAL      | <u>14%</u>    | <u>\$20,356.00</u> |
| TOTAL                           |               |                    |
| LABOR                           |               |                    |
| DIRECT LABOR                    | <u>180 MD</u> | <u>12,000.00</u>   |
| + OVERHEAD                      |               | <u>5,280.00</u>    |
| TOTAL                           |               | <u>\$17,280.00</u> |
| EQUIPMENT                       |               |                    |
|                                 |               | <u>\$4,782.00</u>  |

TOTAL ORIGINAL PROJECT COST = \$46,476.00



BOSTON AND MAINE CORP  
VALLEY ST.  
MANCHESTER, N.H.  
CROSSING NO. 860-940 L  
OFFICE OF CHIEF ENGINEER  
COMMUNICATIONS AND SIGNAL

NOT TO SCALE

BOSTON AND MAINE CORPORATION, DEBTOR  
Robert W. Meserve and Benjamin H. Lacy, Trustees

NASHUA, NEW HAMPSHIRE

FORCE ACCOUNT ESTIMATE

Reconstruction by the State of New Hampshire of a grade crossing carrying Bridge Street (NRHCI #53 234R) across tracks of the New Hampshire Main Line in Nashua, including installation of rubber surface and installation of new signal units.

Statement of work to be performed by or for the Trustees.

The Trustees will furnish labor, materials and equipment for:

1. Construction - Preliminary Engineering
2. Construction - Office Engineering
3. Construction - Field Engineering and Supervision
4. Construction - Install welded rail, ties, ballast, and rubber surface
10. Accounting
11. Signal - Preliminary Engineering
12. Signal - Office Engineering
13. Signal - Supervision
14. Signal - Upgrading of AHCP including installation of new gate arms and lights, insulated joints and cable.

| <u>ITEM</u> | <u>LABOR</u> | <u>MATERIAL</u> | <u>SALVAGE</u> | <u>EQUIPMENT</u> | <u>OTHER</u> | <u>TOTAL</u>     |
|-------------|--------------|-----------------|----------------|------------------|--------------|------------------|
| 1.          | 724          |                 |                | 90               |              | 814              |
| 2.          | 5325         | 200             |                | 600              | 200          | 6325             |
| 3.          | 3940         |                 |                | 870              |              | 4810             |
| 4.          | 21,825       | 44,216          | (780)          | 10,750           | 4000         | 80,011           |
| 10.         | 4260         |                 |                | 1500             |              | 5760             |
| 11.         | 475          |                 |                |                  | 19           | 494              |
| 12.         | 1994         | 109             |                |                  |              | 2103             |
| 13.         | 1152         |                 |                | 141              |              | 1293             |
| 14.         | 11,520       | 23,755          |                | 3247             |              | 38,522           |
|             |              |                 |                |                  |              | <u>\$140,132</u> |

NOTE #1 - The above cost is for estimate purposes only.  
Billing will be made on actual cost.

D. J. HUGHES  
Vice President Engineering

GST/cjp  
August 1, 1978

ENGINEERING DEPARTMENT

ESTIMATE

Sheet No. \_\_\_\_\_

Location NASHUA, N.H. - BRIDGE ST. CROSSING Date 7/31/78  
 Description of Work RECONSTRUCT CROSSING (# 53 234 R) - RUBBER SURFACE By \_\_\_\_\_

| A, B or R | Acct. No. | DESCRIPTION   | UNIT     | QUANTITY | PRICE | AMOUNT | TOTAL    |
|-----------|-----------|---|----------|----------|-------|--------|----------|
| ITEM 1    |           | PRELIMINARY ENGINEERING                             |          |          |       |        |          |
|           |           | LABOR   | MD       | 6        | 85    | 510    |          |
|           |           | ADDITIVES   |          |          |       | 214    |          |
|           |           | EQUIPMENT   | DAY      | 3        | 30    | 90     | 814      |
| ITEM 2    |           | OFFICE ENGINEERING                                  |          |          |       |        |          |
|           |           | LABOR   | MD       | 50       | 75    | 3750   |          |
|           |           | ADDITIVES   |          |          |       | 1575   |          |
|           |           | MATERIAL  | LS       |          |       | 200    |          |
|           |           | EQUIPMENT   | LS       |          |       | 600    |          |
|           |           | OTHER   | LS       |          |       | 200    | 6325 -   |
| ITEM 3    |           | FIELD ENGINEERING                                   |          |          |       |        |          |
|           |           | LABOR   | MD       | 37       | 75    | 2775   |          |
|           |           | ADDITIVES   |          |          |       | 1165   |          |
|           |           | EQUIPMENT   | DAY      | 29       | 30    | 870    | 4810 -   |
| ITEM 4    |           | FIELD WORK - RECONSTRUCT CROSSING - INSTALL SURFACE |          |          |       |        |          |
|           |           | LABOR   | CREW DAY | 25       | 550   | 13,750 |          |
|           |           | ADDITIVES   |          |          |       | 5775   |          |
|           |           | PER DIEM  | CREW DAY | 25       | 92    | 2300   |          |
|           |           | MATERIAL  | SEE LIST |          |       | 44,216 |          |
|           |           | SALVAGE   | LS       |          |       | (780)  |          |
|           |           | EQUIPMENT   | CREW DAY | 25       | 430   | 10,750 |          |
|           |           | OTHER   | LS       |          |       | 4000   | 80,011 - |
| ITEM 10   |           | ACCOUNTING  |          |          |       |        |          |
|           |           | LABOR   | MD       | 40       | 75    | 3000   |          |
|           |           | ADDITIVES   |          |          |       | 1260   |          |
|           |           | EQUIPMENT   | LS       |          |       | 1500   | 5760 -   |



# BOSTON AND MAINE CORP.

## C & S PORTION OF FORCE ACCOUNT ESTIMATE

LOCATION: NASHUA, N.H.

DATE: 7/20/78

CROSSING: BRIDGE ST. (#53-234R)

DESCRIPTION OF WORK:

UPGRADING OF AHCP INCLUDING INSTALLATION OF NEW GATE ARMS AND LIGHTS, INSULATED JOINTS AND CABLE.

| C'S ITEM:                   | TOTAL  |
|-----------------------------|--------|
| 11. PRELIMINARY ENGINEERING | 494    |
| A. LABOR                    | 475    |
| B. EXPENSES                 | 19     |
| 12. OFFICE ENGINEERING      | 2,103  |
| A. LABOR                    | 1,994  |
| B. MATERIAL                 | 109    |
| 13. C'S FIELD SUPERVISION   | 1,293  |
| A. LABOR                    | 1,152  |
| B. EQUIPMENT                | 141    |
| 14. C'S FIELD WORK          | 38,522 |
| A. LABOR                    | 11,520 |
| B. MATERIAL                 | 23,755 |
| C. EQUIPMENT                | 3,247  |

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C'S PROJECT TOTAL: \$42,412

NOTE: ESTIMATE ANTICIPATES PROJECT INSTALLATION IN 1979  
ALL ITEMS HAVE BEEN PRICED ACCORDINGLY



CROSSING: BRIDGE ST (#53-234R)

DATE: 7/20/78

LOCATION: NASHUA, N.H.

DESCRIPTION OF PROJECT:

UPGRADING OF AHCP INCLUDING INSTALLATION OF NEW GATE  
ARMS AND LIGHTS, INSULATED JOINTS AND CABLE

|                                  | <u>QUANTITY</u> | <u>AMOUNT</u>   |
|----------------------------------|-----------------|-----------------|
| <u>PRELIMINARY ENGINEERING</u>   |                 |                 |
| DIRECT LABOR                     | <u>5MD</u>      | <u>330</u>      |
| + OVERHEAD                       |                 | <u>145</u>      |
| EXPENSES                         |                 | <u>19</u>       |
| TOTAL:                           |                 | <u>\$494</u>    |
| <u>OFFICE ENGINEERING</u>        |                 |                 |
| DIRECT LABOR                     | <u>21MD</u>     | <u>1385</u>     |
| + OVERHEAD                       |                 | <u>609</u>      |
| MATERIAL                         |                 | <u>109</u>      |
| TOTAL:                           |                 | <u>\$2103</u>   |
| <u>SUPERVISION</u>               |                 |                 |
| DIRECT LABOR                     | <u>8MD</u>      | <u>800</u>      |
| + OVERHEAD                       |                 | <u>352</u>      |
| EQUIPMENT                        |                 | <u>141</u>      |
| TOTAL:                           |                 | <u>\$1293</u>   |
| <u>MATERIAL</u>                  |                 |                 |
| AUTOMATIC GATE SIGNALS           |                 | <u>2988</u>     |
| AUTOMATIC FLASHING LIGHT SIGNALS |                 | <u>423</u>      |
| BATTERIES, JOINTS, CABLE         |                 | <u>17,246</u>   |
| POLE LINE MATERIAL               |                 | <u>-</u>        |
| CASES AND RELAYS                 |                 | <u>-</u>        |
| STORES EXPENSE                   | <u>690</u>      | <u>1,239</u>    |
| MA SALES TAX                     | <u>570</u>      | <u>1,033</u>    |
| FREIGHT EXPENSE                  | <u>490</u>      | <u>826</u>      |
| TOTAL:                           |                 | <u>\$23,755</u> |
| <u>LABOR</u>                     |                 |                 |
| DIRECT LABOR                     | <u>120MD</u>    | <u>8,000</u>    |
| + OVERHEAD                       |                 | <u>3520</u>     |
| TOTAL:                           |                 | <u>\$11,520</u> |
| <u>EQUIPMENT</u>                 |                 | <u>\$3247</u>   |
| <u>PER DIEM LIVING EXPENSE</u>   |                 | <u>-</u>        |
| <u>GIS PROJECT TOTAL:</u>        |                 | <u>\$42,412</u> |

1711' ± = 35 SECONDS

1807' ± = 35 SECONDS

MANCHESTER

SIDEWALK

SIDEWALK

#AB42

#CB42

#B842

#842



H.T.M

BRIDGE ST.

- GATE #842 ROADWAY ARM = 21'
- SIDEWALK ARM = 8'
- GATE #AB42 ROADWAY ARM = 196'
- SIDEWALK ARM = 9'
- GATE #B842 SIDEWALK ARM = 12'6"
- GATE #CB42 SIDEWALK ARM = 13'6"

UPGRADING OF AHCP  
 INCLUDING INSTALLATION OF  
 NEW GATE ARMS AND LIGHTS,  
 INSULATED JOINTS AND  
 CABLE

BOSTON AND MAINE CORP.  
 BRIDGE ST.  
 NASHUA, N. H.  
 N.R.H.C.I. # 53-234-R  
 N. H. MAIN LINE

NOT TO SCALE

OFFICE OF CHIEF ENGINEER  
 COMMUNICATIONS AND SIGNAL

BOSTON AND MAINE CORPORATION, DEBTOR  
Robert W. Meserve and Benjamin H. Lacy, Trustees

NASHUA, NEW HAMPSHIRE

FORCE ACCOUNT ESTIMATE

Reconstruction by the State of New Hampshire of two grade crossings carrying East Hollis Street (NRHCI #53 233T) across tracks of the New Hampshire Main Line in Nashua and across tracks of the Hillsboro Branch in Nashua (NRHCI #844 260A), including installation of rubber surface and new automatic highway crossing protection.

Statement of work to be performed by or for the Trustees.

The Trustees will furnish labor, materials and equipment for:

1. Construction - Preliminary Engineering
2. Construction - Office Engineering
3. Construction - Field Engineering and Supervision
4. Construction - Install welded rail, ties, ballast, rubber surface
10. Accounting
11. Signal - Preliminary Engineering
12. Signal - Office Engineering
13. Signal - Supervision
14. Signal - Upgrading of A.H.C.P. including installation of new gate arms and lights, insulated joints and cable.

| <u>ITEM</u> | <u>LABOR</u> | <u>MATERIAL</u> | <u>SALVAGE</u> | <u>EQUIPMENT</u> | <u>OTHER</u> | <u>TOTAL</u>                   |
|-------------|--------------|-----------------|----------------|------------------|--------------|--------------------------------|
| 1.          | 724          |                 |                | 90               |              | 814                            |
| 2.          | 6390         | 200             |                | 600              | 300          | 7590                           |
| 3.          | 5225         |                 |                | 1200             |              | 6425                           |
| 4.          | 26,190       | 89,056          | (2000)         | 12,900           | 6000         | 132,146                        |
| 10.         | 5858         |                 |                | 1000             |              | 6858                           |
| 11.         | 779          |                 |                |                  |              | 779                            |
| 12.         | 2374         | 109             |                |                  |              | 2483                           |
| 13.         | 1862         |                 |                | 246              |              | 2108                           |
| 14.         | 19,200       | 27,286          |                | 5682             |              | 52,168                         |
|             |              |                 |                |                  |              | <hr/>                          |
|             |              |                 |                |                  |              | GRAND TOTAL NET ESTIMATED COST |
|             |              |                 |                |                  |              | \$211,371                      |

NOTE #1 - The above cost is for estimate purposes only.  
Billing will be made on actual cost.

D. J. HUGHES  
Vice President Engineering

GST/cjp  
July 26, 1978

ESTIMATE

Location NASHUA, NH - E. HOLLIS ST. XING

Date 7/11/78

Description of Work RECONSTRUCT (#53 233T NHIAL - #814 760A) HILLS  
2 (TWO) XINGAS W/ SAF & TDR 12/20/77 By \_\_\_\_\_

| A, B or R | Acct. No. | DESCRIPTION                       | UNIT     | QUANTITY | PRICE | AMOUNT | TOTAL   |
|-----------|-----------|-----------------------------------|----------|----------|-------|--------|---------|
| ITEM 1    |           | PRELIMINARY ENGINEERING           |          |          |       |        |         |
|           |           | LABOR                             | MD       | 6        | 85    | 510    |         |
|           |           | O.H.                              |          |          |       | 214    |         |
|           |           | EQUIP                             | DAY      | 3        | 30    | 90     | 814     |
| ITEM 2    |           | OFFICE ENGINEERING                |          |          |       |        |         |
|           |           | LABOR                             | MD       | 60       | 75    | 4500   |         |
|           |           | O.H.                              |          |          |       | 1890   |         |
|           |           | MATERIAL                          | LS       |          |       | 300    |         |
|           |           | EQUIP                             | LS       |          |       | 600    |         |
|           |           | OTHER                             | LS       |          |       | 300    | 7590    |
| ITEM 3    |           | FIELD ENGINEERING                 |          |          |       |        |         |
|           |           | LABOR                             | MD       | 50       | 75    | 3750   |         |
|           |           | O.H.                              |          |          |       | 1475   |         |
|           |           | EQUIP                             | DAY      | 40       | 30    | 1200   | 6425    |
| ITEM 4    |           | FIELD WORK - RECONSTRUCT CROSSING |          |          |       |        |         |
|           |           | LABOR                             | CREW DAY | 30       | 550   | 16500  |         |
|           |           | O.H.                              |          |          |       | 6930   |         |
|           |           | PER DIEM                          | CREW DAY | 30       | 92    | 2760   |         |
|           |           | MATERIAL                          | SEE LIST |          |       | 89,056 |         |
|           |           | SALVAGE                           | LS       |          |       | (2000) |         |
|           |           | EQUIP                             | CREW DAY | 30       | 430   | 12900  |         |
|           |           | OTHER                             | LS       |          |       | 6000   | 132,146 |
| ITEM 10   |           | ACCOUNTING                        |          |          |       |        |         |
|           |           | LABOR                             | MD       | 55       | 75    | 4125   |         |
|           |           | O.H.                              |          |          |       | 1733   |         |
|           |           | EQUIP                             | LS       |          |       | 1000   | 6858    |





# BOSTON AND MAINE CORP.

## C & S PORTION OF FORCE ACCOUNT ESTIMATE

LOCATION: NASHUA, N.H.

DATE: 7/21/78

CROSSING: EAST HOLLIS ST [2 CROSSINGS] N.H.M.L. # 53-233 T  
HOLLIS BRANCH # 844-260A

DESCRIPTION OF WORK:

UPGRADING OF A.H.C.P. INCLUDING INSTALLATION OF NEW GATE ARMS AND LIGHTS, INSULATED JOINTS AND CABLE.

| C'S ITEM:                   |        | TOTAL  |
|-----------------------------|--------|--------|
| 11. PRELIMINARY ENGINEERING |        | 779    |
| A. LABOR                    | 760    |        |
| B. EXPENSES                 | 19     |        |
| 12. OFFICE ENGINEERING      |        | 2483   |
| A. LABOR                    | 2374   |        |
| B. MATERIAL                 | 109    |        |
| 13. C'S FIELD SUPERVISION   |        | 2108   |
| A. LABOR                    | 1862   |        |
| B. EQUIPMENT                | 246    |        |
| 14. C'S FIELD WORK          |        | 52,168 |
| A. LABOR                    | 19,200 |        |
| B. MATERIAL                 | 27,286 |        |
| C. EQUIPMENT                | 5,682  |        |

C'S PROJECT TOTAL: \$57,538

NOTE: ESTIMATE ANTICIPATES PROJECT INSTALLATION IN 1979  
ALL ITEMS HAVE BEEN PRICED ACCORDINGLY

CROSSING: EAST HOLLIS ST (#53-233T & #844-260A) DATE: 7/20/78

LOCATION: NASHUA, N.H.

DESCRIPTION OF PROJECT:

UPGRADING OF A.H.C.P. INCLUDING INSTALLATION OF NEW GATE ARMS AND LIGHTS, INSULATED JOINTS AND CABLE

|                                  | <u>QUANTITY</u> | <u>AMOUNT</u>    |
|----------------------------------|-----------------|------------------|
| PRELIMINARY ENGINEERING          |                 |                  |
| DIRECT LABOR                     | <u>8MD</u>      | <u>528</u>       |
| + OVERHEAD                       |                 | <u>232</u>       |
| EXPENSES                         |                 | <u>19</u>        |
| TOTAL:                           |                 | <u>\$ 779</u>    |
| OFFICE ENGINEERING               |                 |                  |
| DIRECT LABOR                     | <u>25MD</u>     | <u>1649</u>      |
| + OVERHEAD                       |                 | <u>725</u>       |
| MATERIAL                         |                 | <u>109</u>       |
| TOTAL:                           |                 | <u>\$ 2483</u>   |
| SUPERVISION                      |                 |                  |
| DIRECT LABOR                     | <u>14MD</u>     | <u>1293</u>      |
| + OVERHEAD                       |                 | <u>569</u>       |
| EQUIPMENT                        |                 | <u>246</u>       |
| TOTAL:                           |                 | <u>\$ 2108</u>   |
| MATERIAL                         |                 |                  |
| AUTOMATIC GATE SIGNALS           |                 | <u>2232</u>      |
| AUTOMATIC FLASHING LIGHT SIGNALS |                 | <u>1179</u>      |
| BATTERIES, JOINTS, CABLE         |                 | <u>20,316</u>    |
| POLE LINE MATERIAL               |                 | <u>-</u>         |
| CASES AND RELAYS                 |                 | <u>-</u>         |
| STORES EXPENSE                   | <u>6%</u>       | <u>1424</u>      |
| MA SALES TAX                     | <u>5%</u>       | <u>1,186</u>     |
| FREIGHT EXPENSE                  | <u>4%</u>       | <u>949</u>       |
| TOTAL:                           |                 | <u>\$ 27,286</u> |
| LABOR                            |                 |                  |
| DIRECT LABOR                     | <u>200MD</u>    | <u>13,333</u>    |
| + OVERHEAD                       |                 | <u>5867</u>      |
| TOTAL:                           |                 | <u>\$ 19,200</u> |
| EQUIPMENT                        |                 | <u>\$ 5682</u>   |
| PER DIEM LIVING EXPENSE          |                 | <u>-</u>         |
| CIS PROJECT TOTAL:               |                 | <u>\$ 57,538</u> |

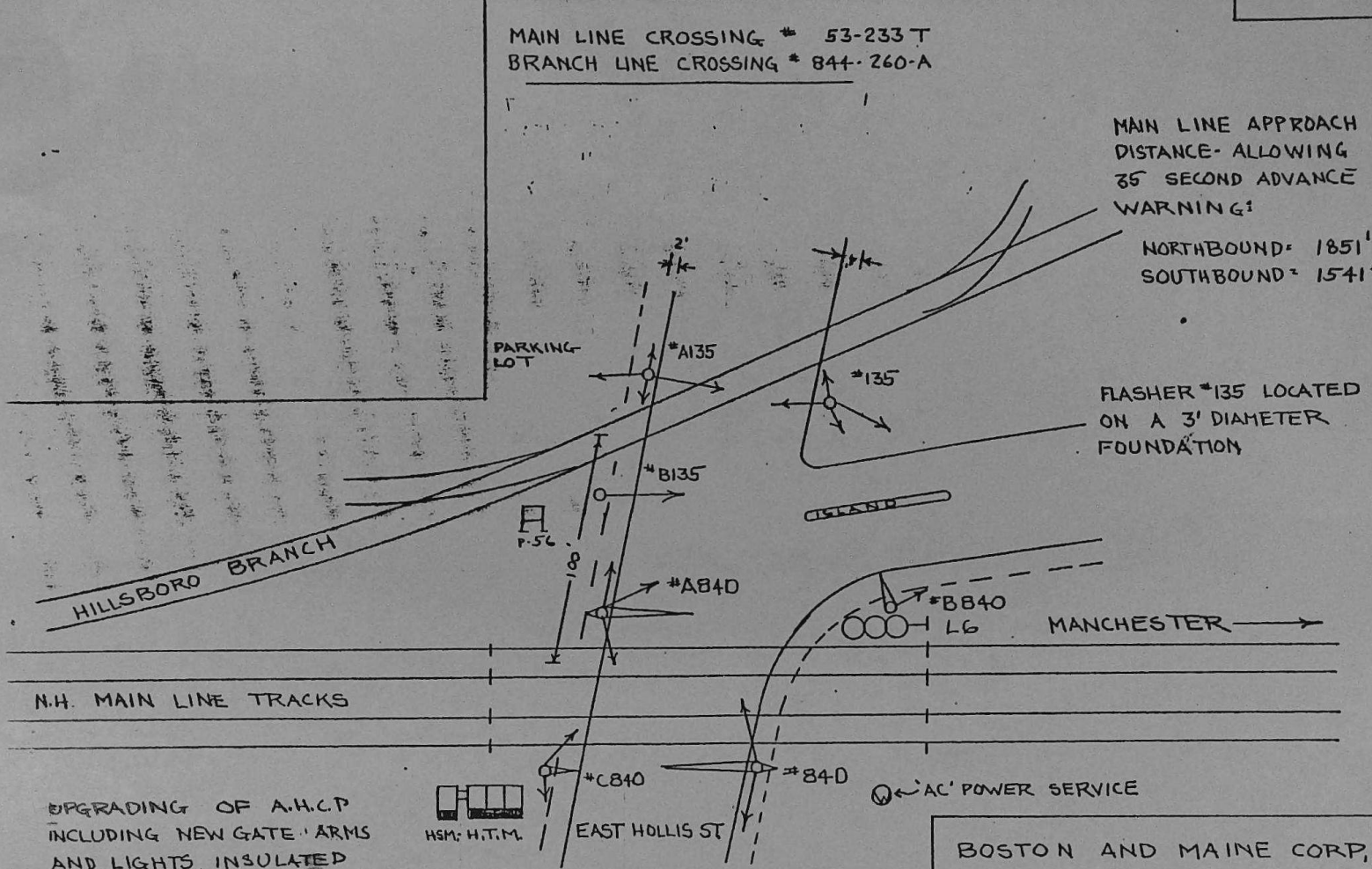


MAIN LINE CROSSING \* 53-233 T  
 BRANCH LINE CROSSING \* 844-260-A

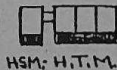
MAIN LINE APPROACH  
 DISTANCE - ALLOWING  
 35 SECOND ADVANCE  
 WARNING!

NORTHBOUND = 1851'  
 SOUTHBOUND = 1541'

FLASHER #135 LOCATED  
 ON A 3' DIAMETER  
 FOUNDATION



UPGRADING OF A.H.C.P.  
 INCLUDING NEW GATE ARMS  
 AND LIGHTS, INSULATED  
 JOINTS AND CABLE



- GATE #840 ROADWAY ARM = 31'-6"
- SIDEWALK ARM = 9'
- GATE #A840 ROADWAY ARM = 23'
- SIDEWALK ARM = 6'
- GATE #B840 SIDEWALK ARM = 7'-6"
- GATE #C840 SIDEWALK ARM = 8'

NOT TO SCALE

BOSTON AND MAINE CORP,  
 EAST HOLLIS ST.  
 NASHUA, N.H.

OFFICE OF CHIEF ENGINEER  
 COMMUNICATIONS AND SIGNALS