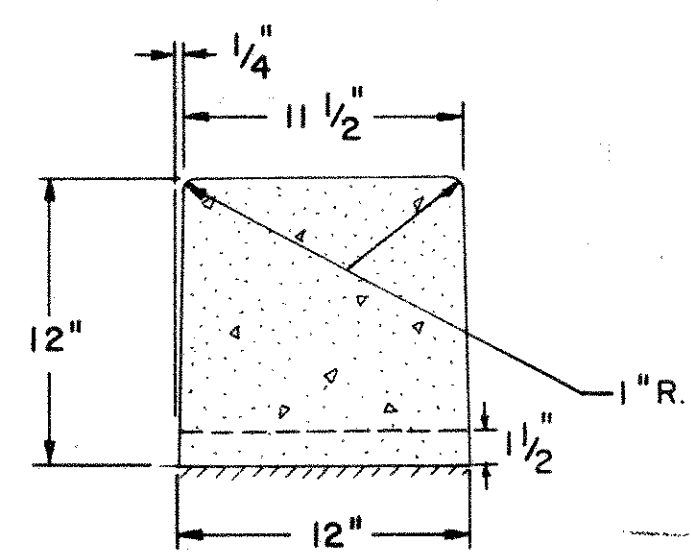


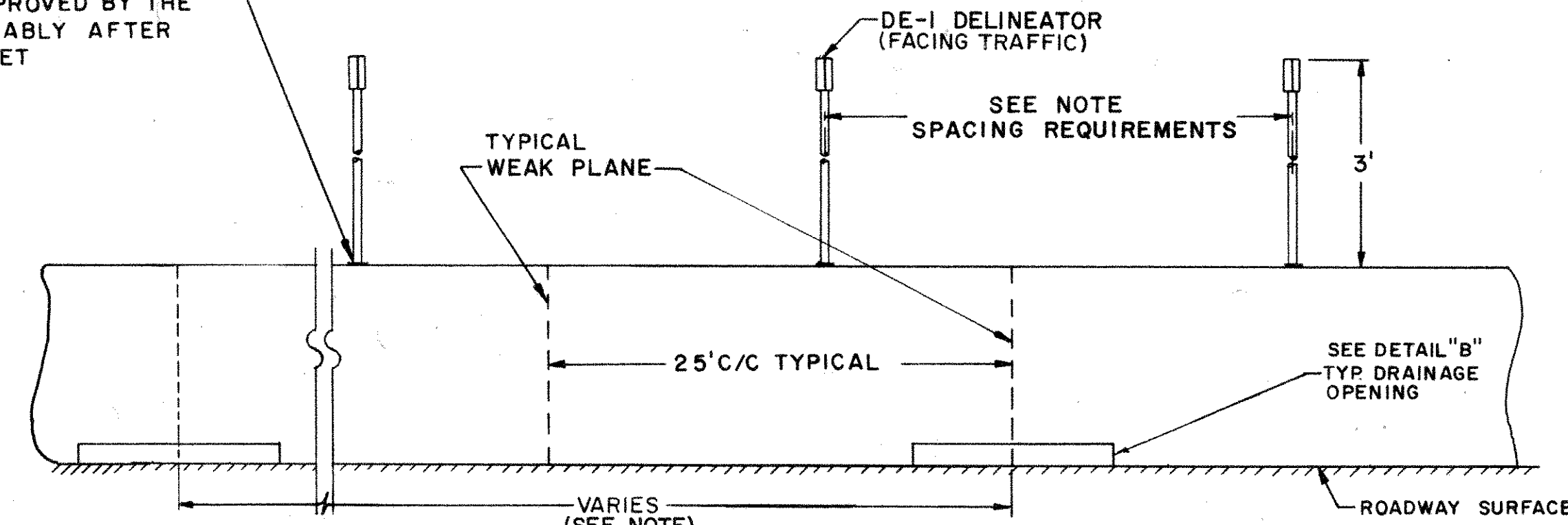
MISCELLANEOUS DETAILS

| PUB. ROAD DIV. NO. | STATE | TOWN | FED. AID PROJ. NO. | PROJ. NO. | YEAR | ROUTE NO. | SHEET NO. | TOTAL SHEETS |
|--------------------|-------|---------------------|--------------------|-----------|------|-----------|-----------|--------------|
| 1 | CONN. | TOLLAND, WILLINGTON | 16-86-2(35)20 | 142-110 | 1976 | 1-86 | 52 | 958 |

DELINEATORS SHALL BE ATTACHED BY A METHOD APPROVED BY THE ENGINEER, PREFERABLY AFTER CONCRETE HAS SET



TYPICAL SECTION
SCALE: 1 1/2" = 1' HORIZ. & VERT.



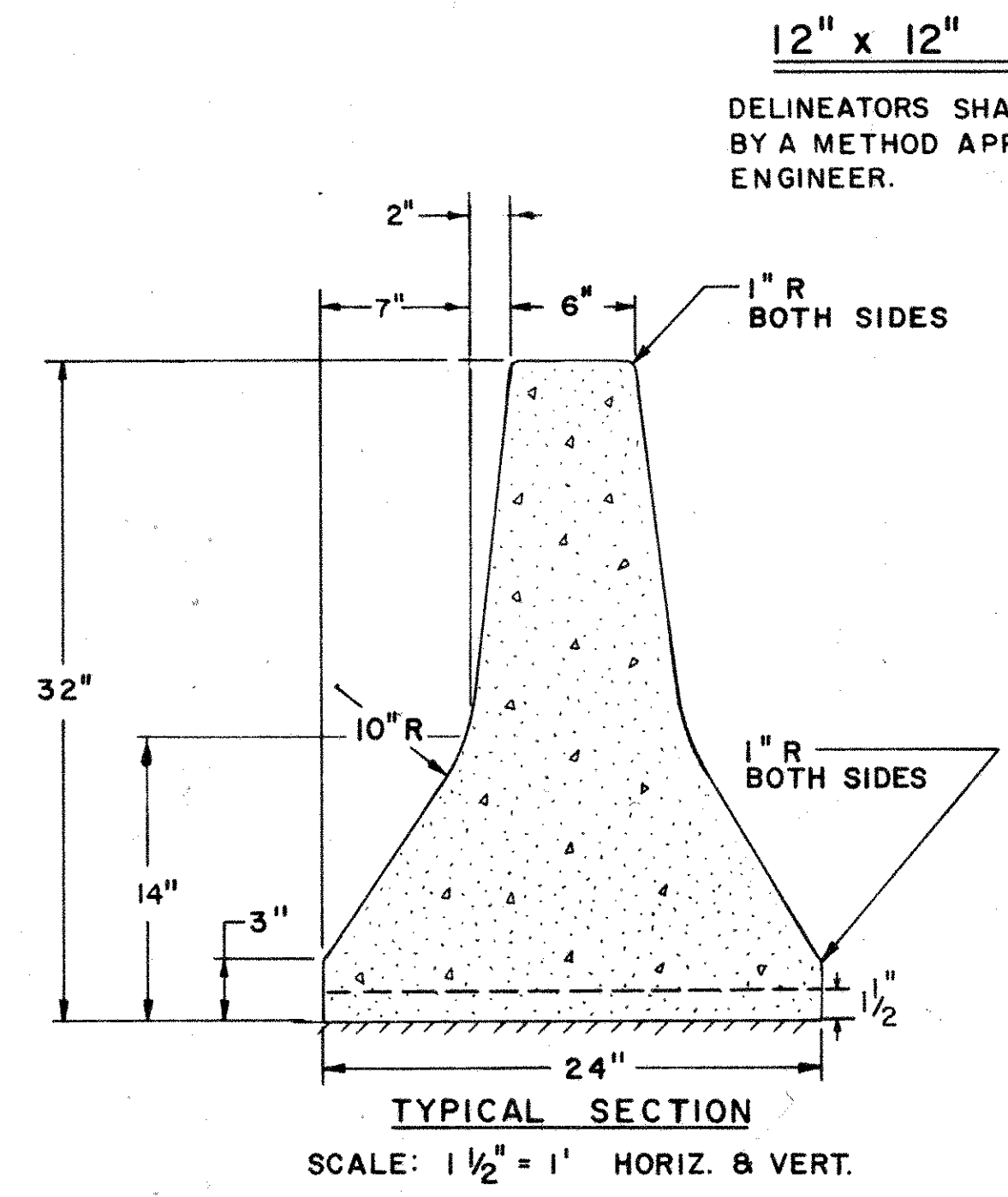
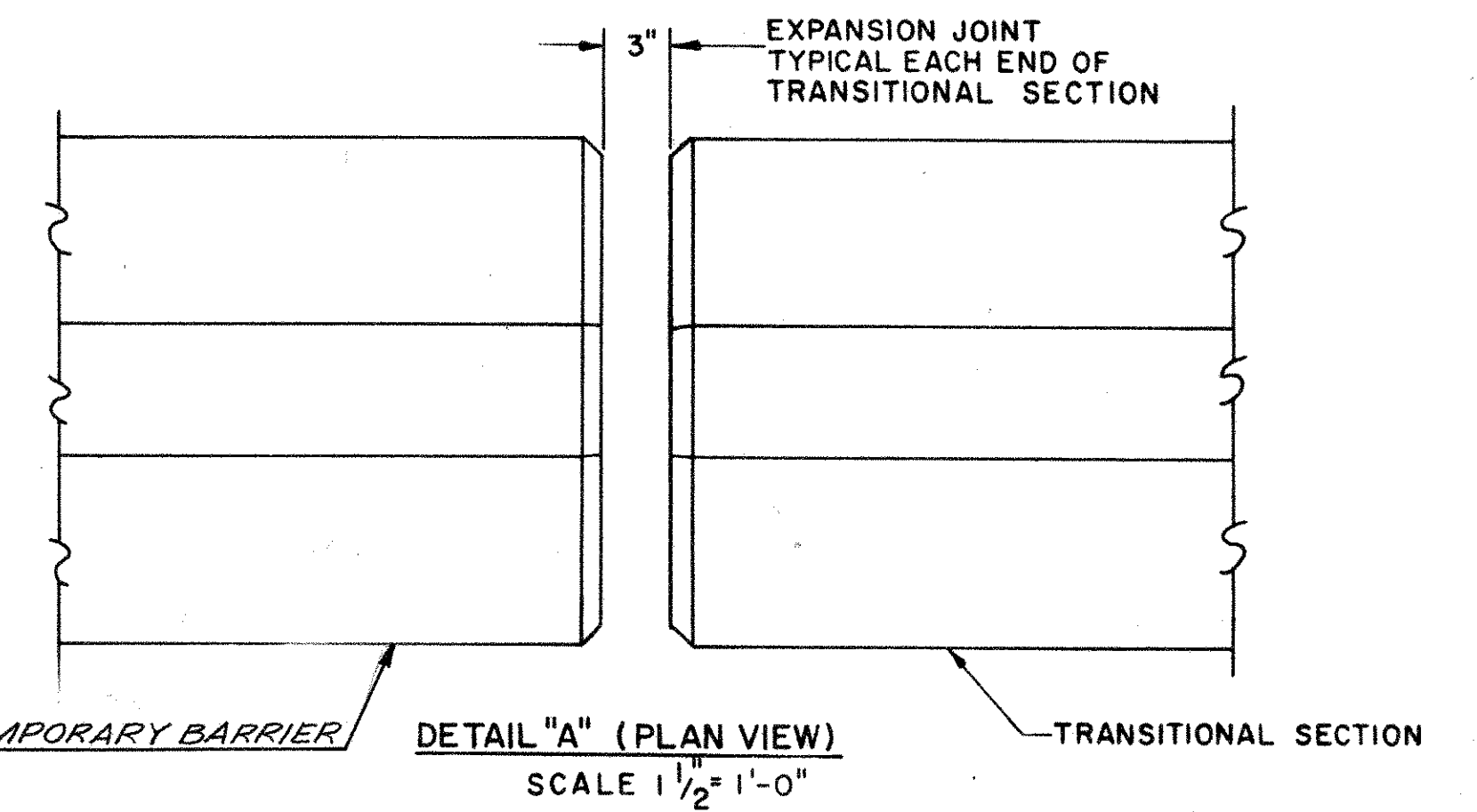
LONGITUDINAL VIEW
SCALE: 1 1/2" = 1' - VERT. NONE - HORIZ.

DELINEATOR SPACING REQUIREMENTS

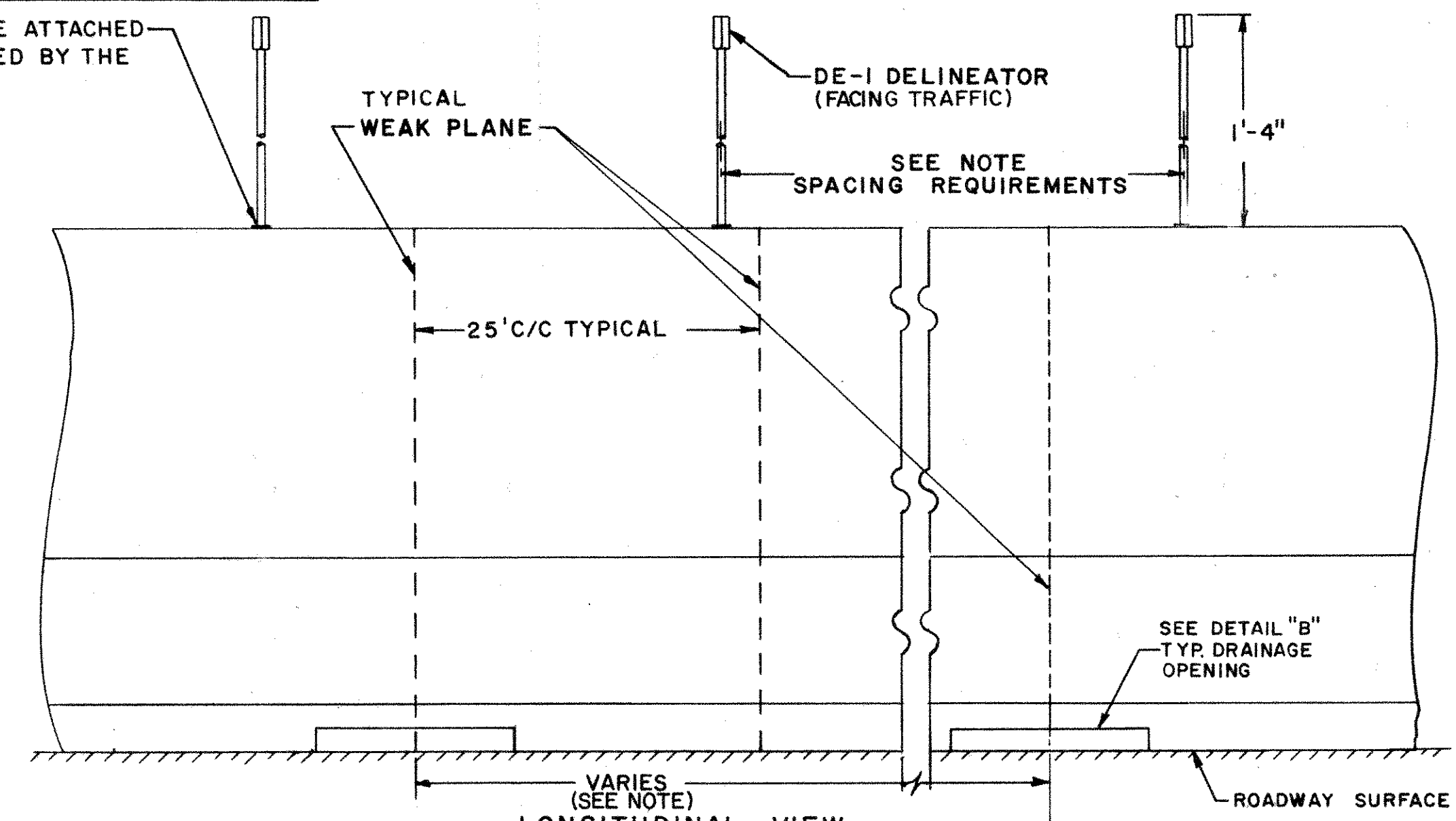
| APPLICATION | SPACING C. TO C. |
|-----------------------------------|--|
| CROSSOVER | 20'-25' (CENTERED BETWEEN WEAK PLANES) |
| BRIDGE DECK | 50' |
| HORIZ. CURVES OVER 3° | 100' |
| TANG & HORIZ. CURVES LESS THAN 3° | 200' |

AT ANY INTERRUPTION IN THE BARRIERS, SUCH AS CONSTRUCTION REQUIREMENTS, CHANGE IN SECTION, BRIDGE EXPANSION JOINTS ETC., EITHER OPEN OR FILLED THREE (3) INCH EXPANSION JOINTS SHALL BE PROVIDED.

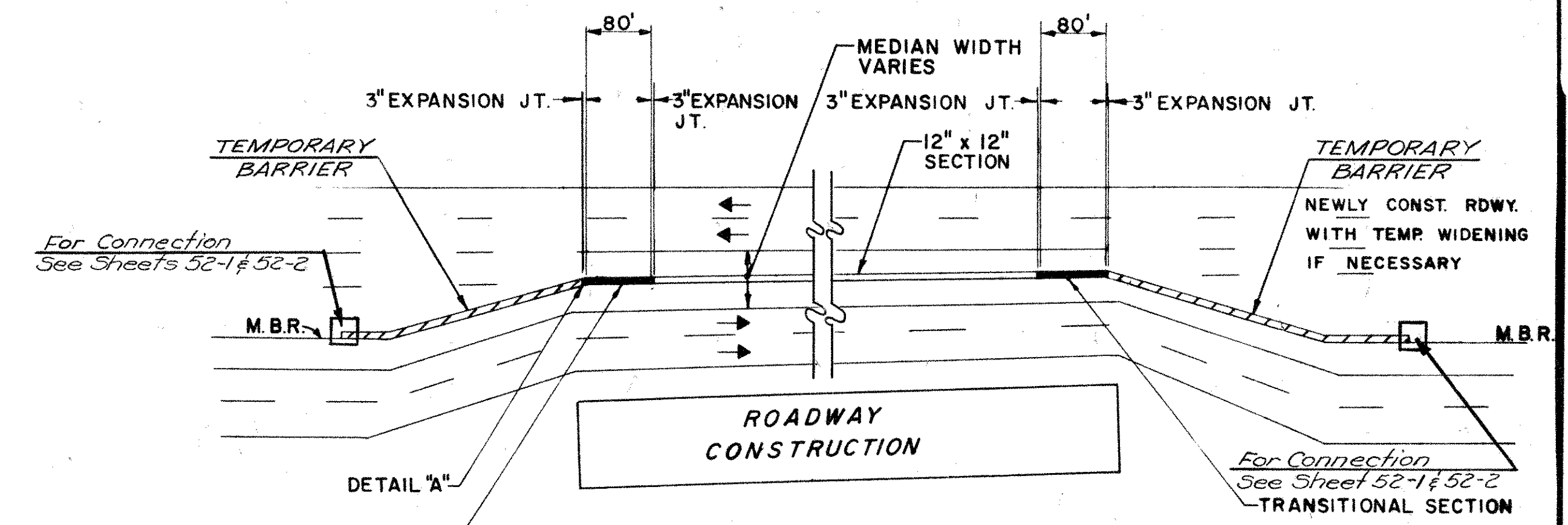
THIS SHEET NOT CORRECTED



TYPICAL SECTION
SCALE: 1 1/2" = 1' HORIZ. & VERT.

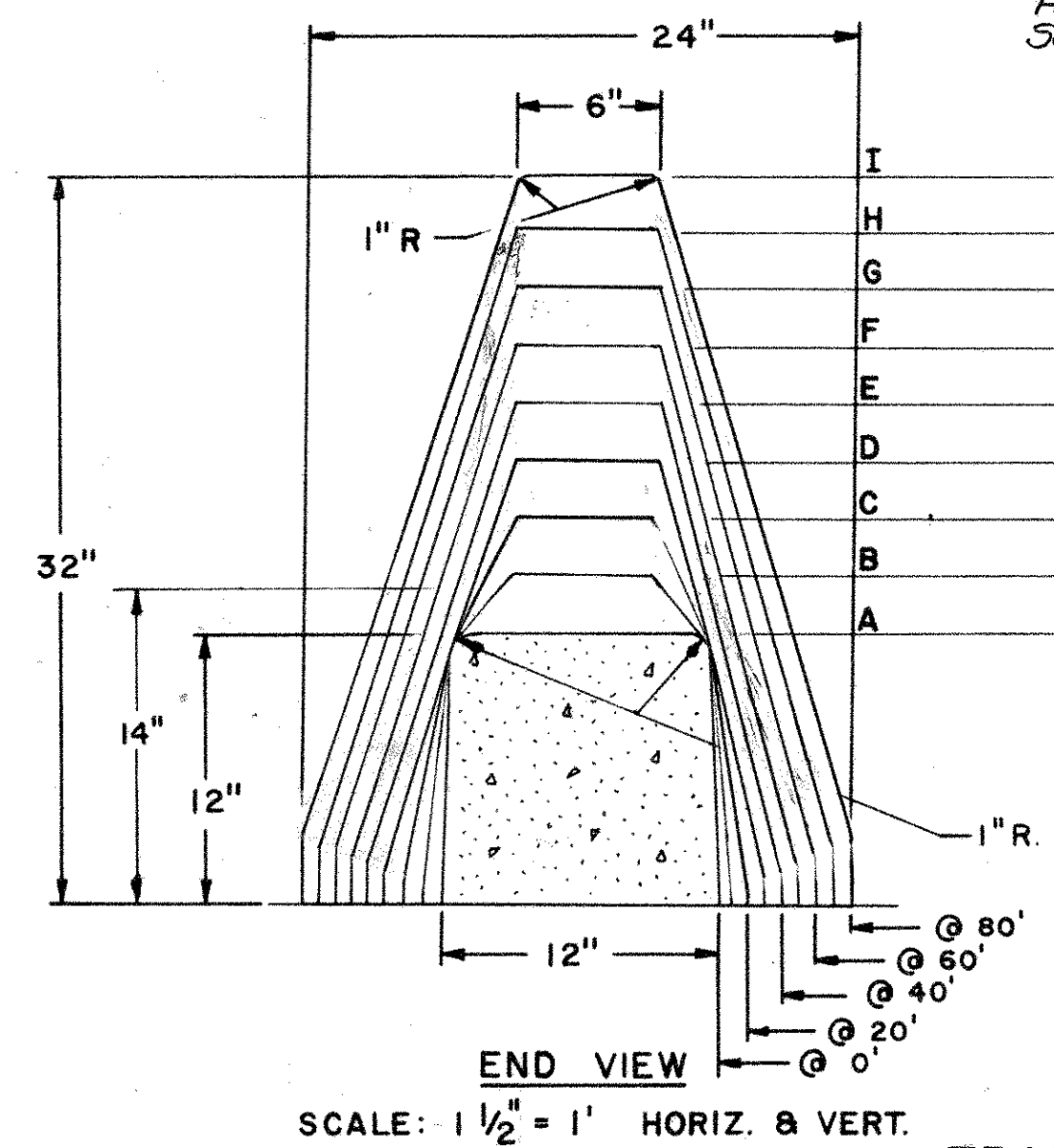


LONGITUDINAL VIEW
SCALE: 1 1/2" = 1' - VERT. NONE - HORIZ.



TYPICAL CONCRETE BARRIER APPLICATION

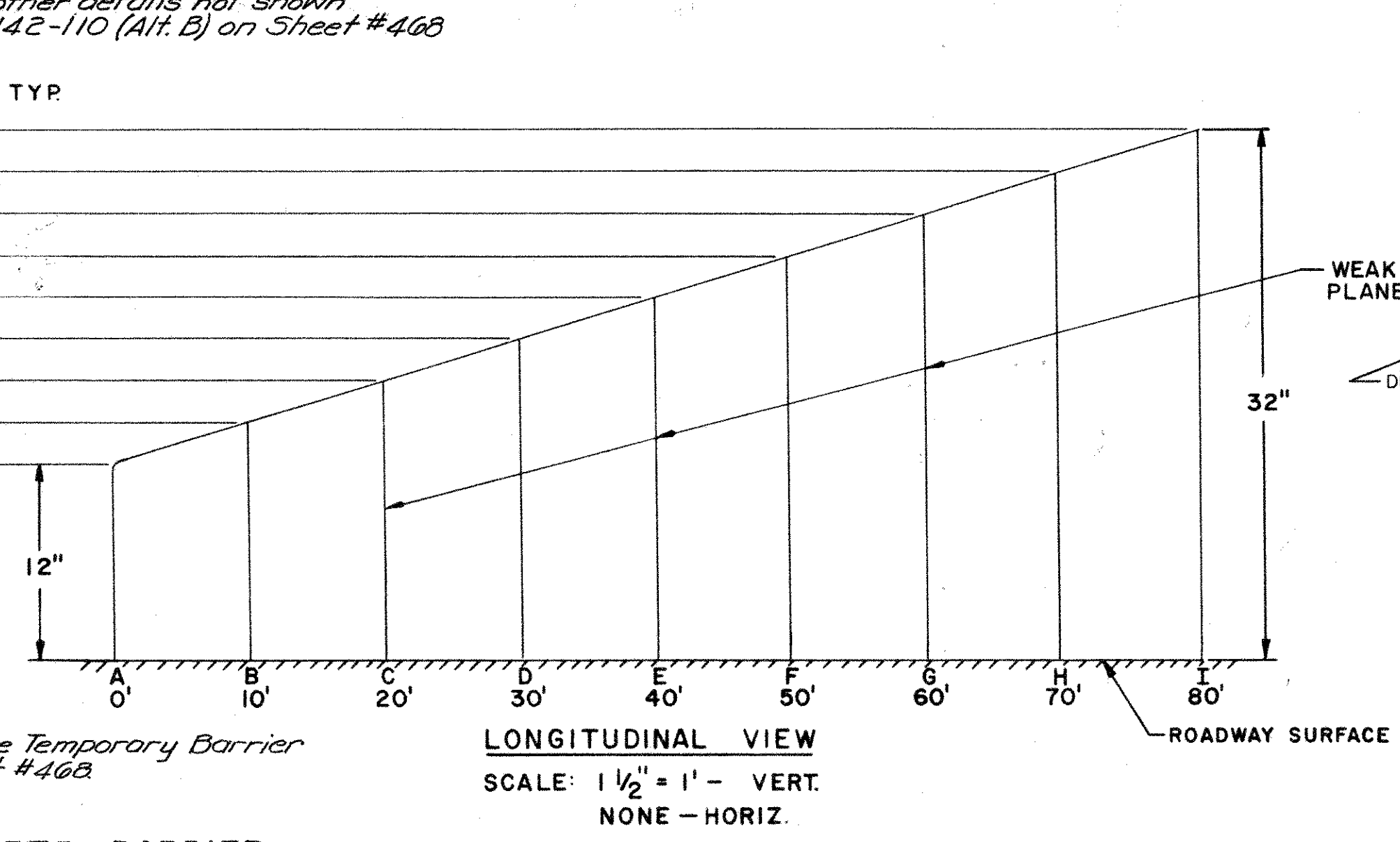
TEMPORARY BARRIER - ROADWAY
For Reinforcement and other details not shown See Temporary Barrier 142-110 (Alt. B) on Sheet #468



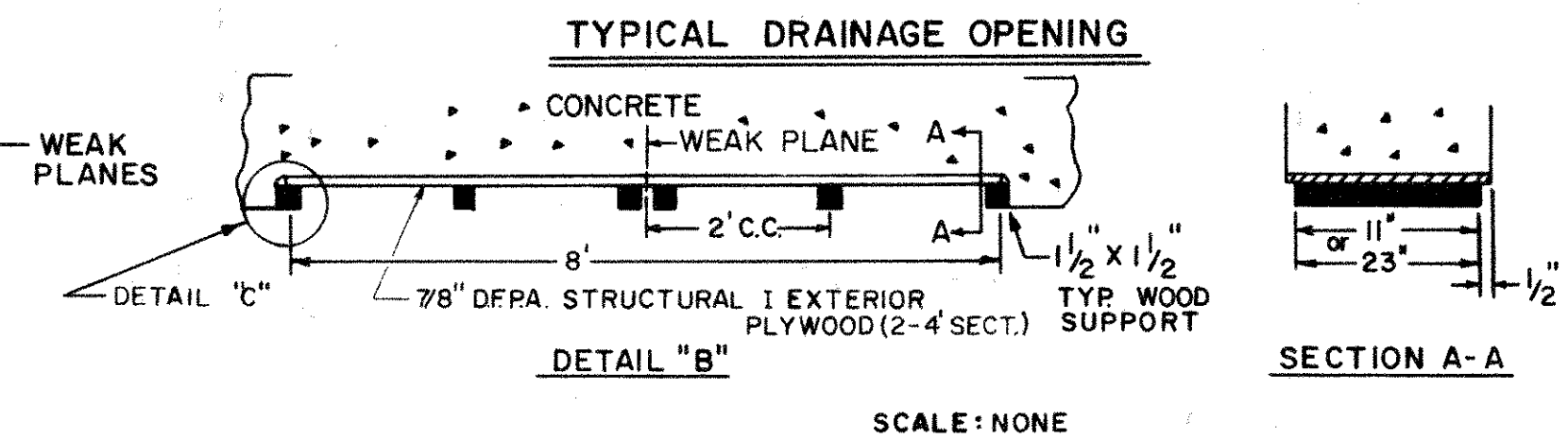
END VIEW
SCALE: 1 1/2" = 1' HORIZ. & VERT.

For Reinforcement, See Temporary Barrier 142-110 (Alt. B) on Sheet #468

TRANSITIONAL CONCRETE BARRIER



LONGITUDINAL VIEW
SCALE: 1 1/2" = 1' - VERT. NONE - HORIZ.



- NOTES:**
1. 300' ON HORIZONTAL TANGENTS
 2. 100' ON HORIZONTAL CURVES
 3. LOW POINTS OF VERTICAL CURVES
 4. 100' EITHER SIDE OF THE LOW POINTS
 5. NO OPENINGS ARE TO BE CONSTRUCTED IN THE TRANSITIONAL SECTIONS

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |

CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

CONCRETE BARRIER
12" x 12" SECTION
TEMPORARY BARRIER
TRANSITIONAL SECTION

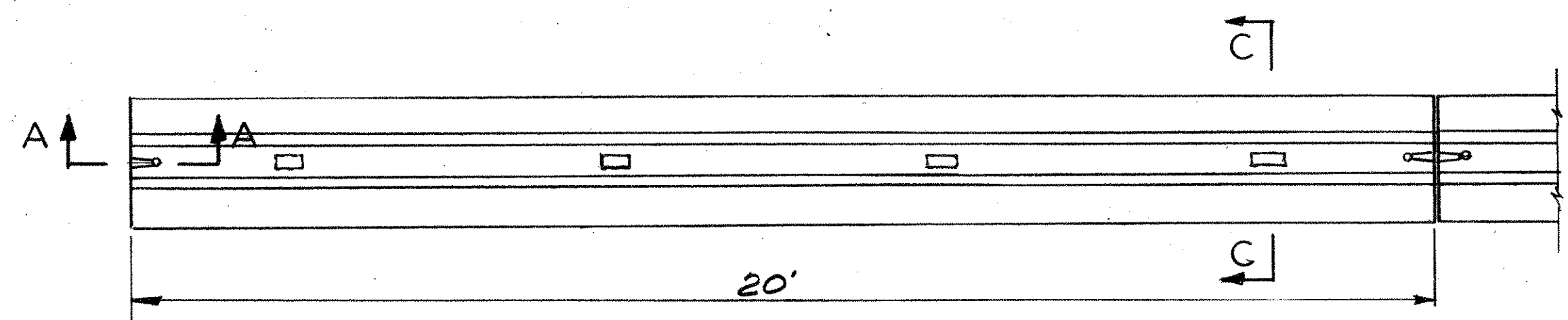
SCALES AS SHOWN
MADE BY S.F. NASIATKA DATE 5/2/75
CHECKED BY P.W. Oudinos DATE 5/6/75
APPROVED J.C. Spenser DATE 5-6-75

DELINEATOR SPACING REQUIREMENTS

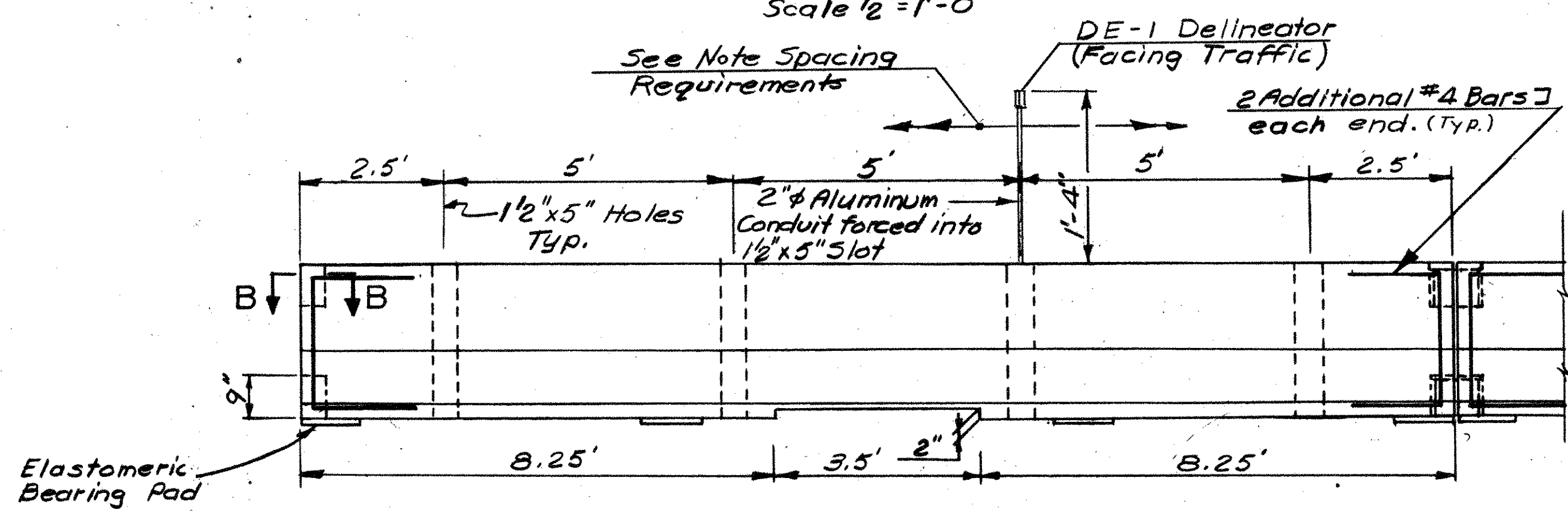
| APPLICATION | SPACING C. TO C. |
|-----------------------------------|------------------|
| Crossover | 20'-25' |
| Bridge Deck | 50' |
| Horiz. Curves Over 3° | 100' |
| Tang & Horiz. Curves Less Than 3° | 200' |

At any interruption in the barriers, such as construction requirements, change in section, bridge expansion joints etc., either open or filled three (3) inch expansion joints shall be provided, & connection plates omitted

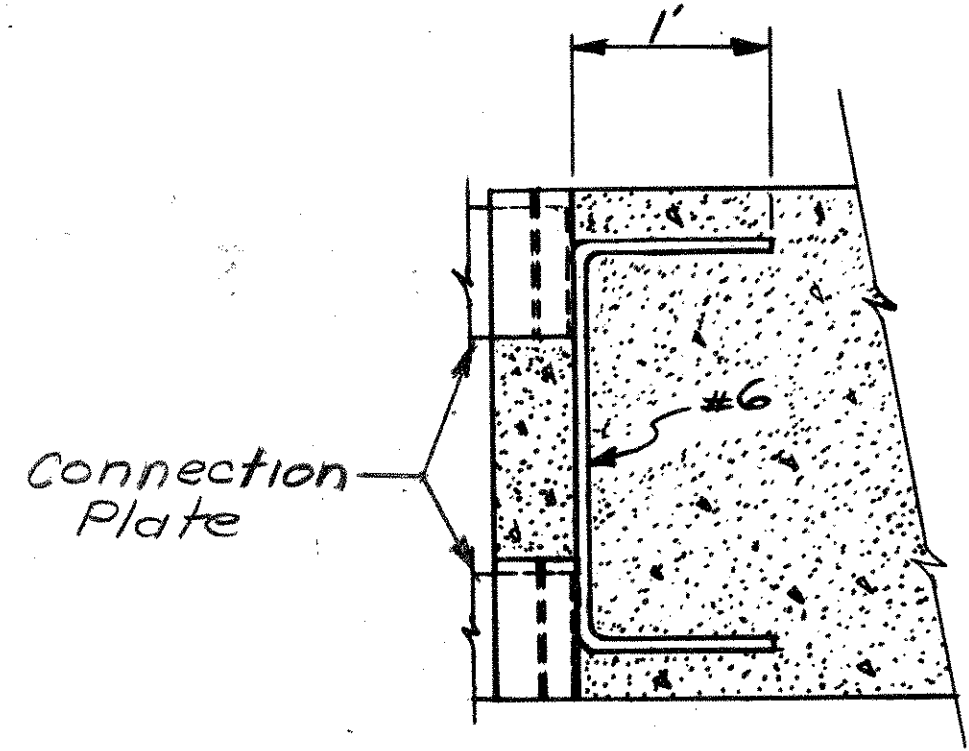
For REVISION ON July 1, 1977 SEE SHEET No 52RB



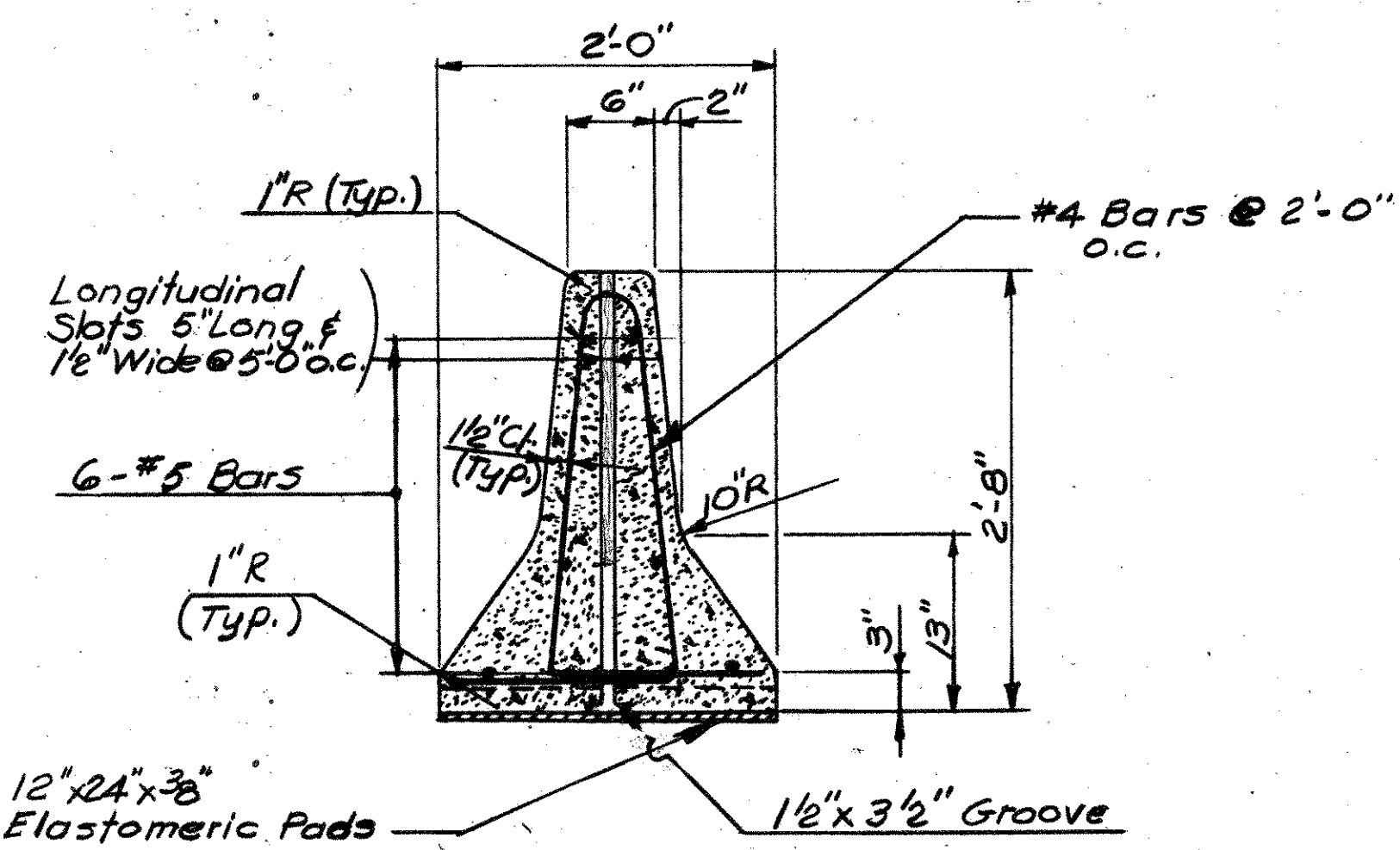
PLAN
Scale 1/2" = 1'-0"



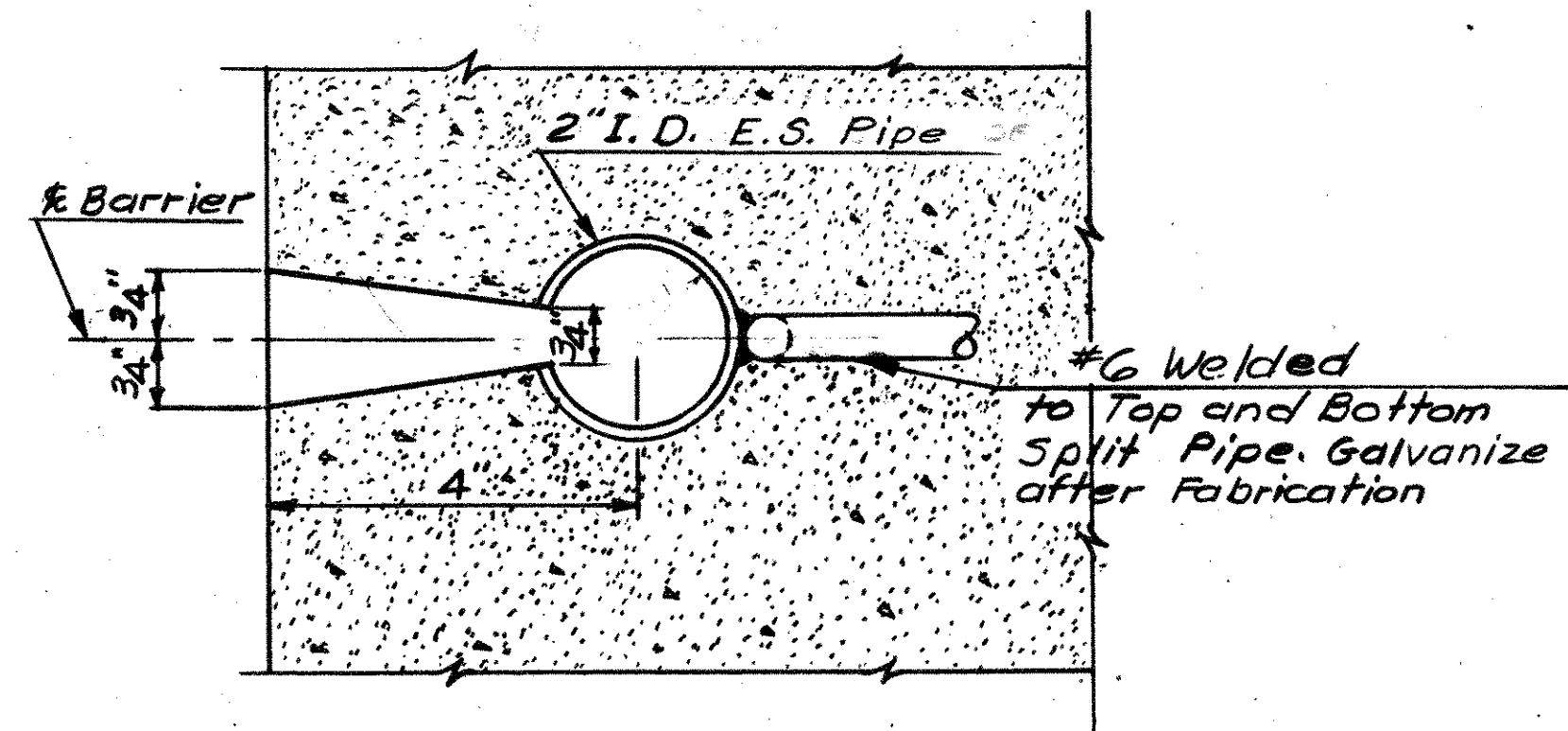
ELEVATION
Scale 1/2" = 1'-0"



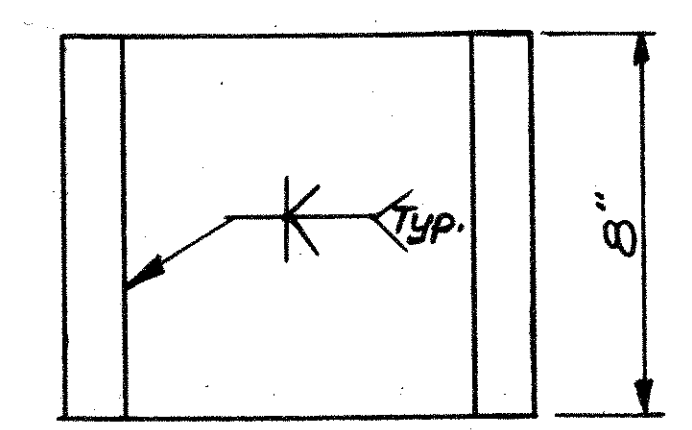
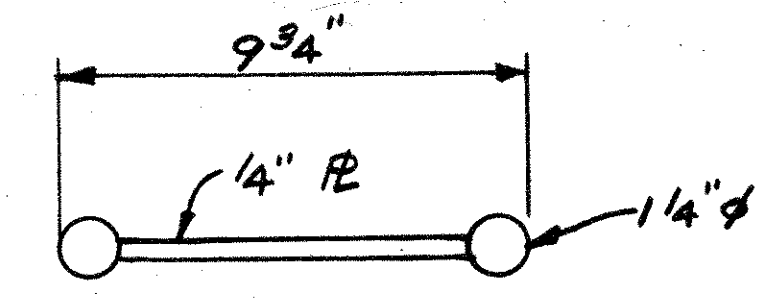
SECTION A-A



SECTION C-C
Scale 1" = 1'-0"



SECTION B-B
Scale 6" = 1'-0"



Steel for Connection Plates shall conform to the requirements of ASTM A-36 and shall be galvanized after fabrication in conformance with the requirements of ASTM A-153.

CONNECTION PLATE
Scale 3" = 1'-0"

THIS SHEET NOT CORRECTED

| | | | |
|------------------------------|--------|--------------|-------------|
| CONNECTICUT | | | |
| DEPARTMENT OF TRANSPORTATION | | | |
| TOLLAND - WILLINGTON | | | |
| RECONSTRUCTION OF | | | |
| INTERSTATE ROUTE 86 | | | |
| TEMPORARY BARRIER - ROADWAY | | | |
| ENGINEER | | Conn. D.O.T. | |
| DESIGNER | D.L.C. | DRAFTSMAN | G.S.D.Jr. |
| CHECKER | J.J.B. | APPROVED | [Signature] |
| NO. | DATE | DESCRIPTION | DATE |
| | | | 6-1-76 |

467-01

M 467 01

52-A

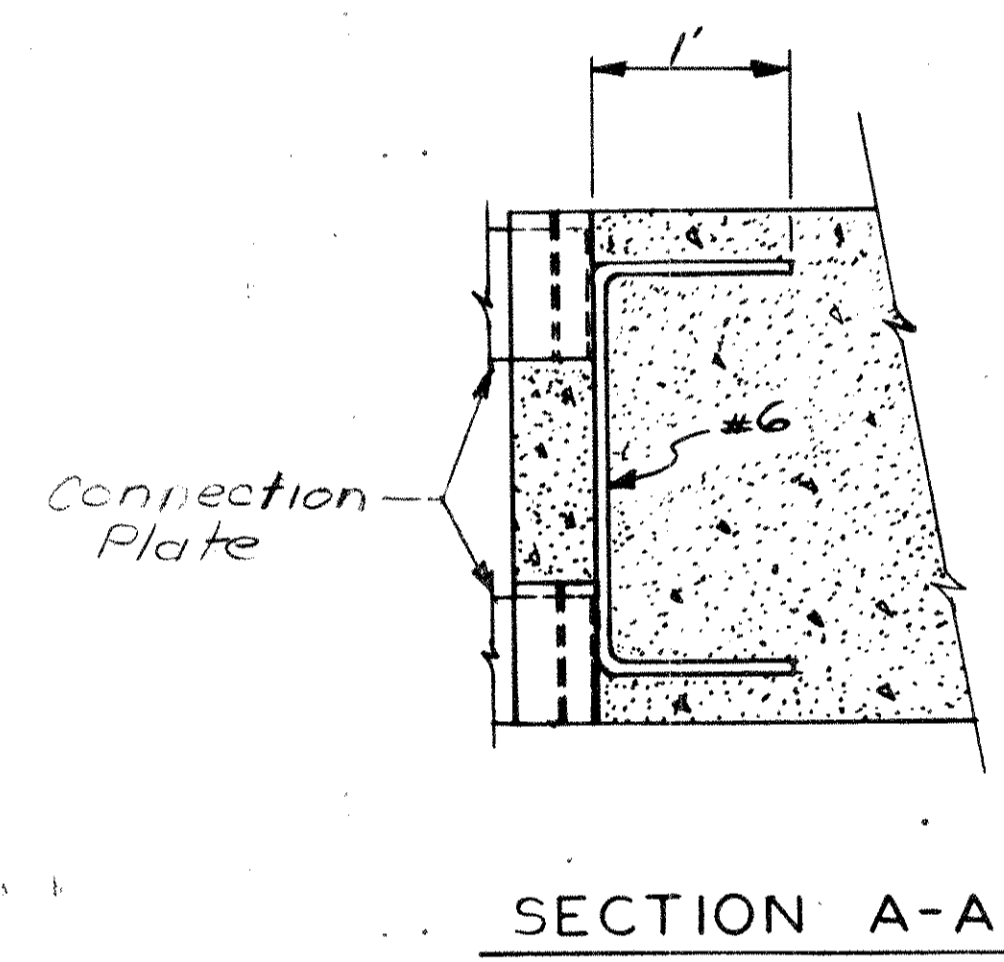
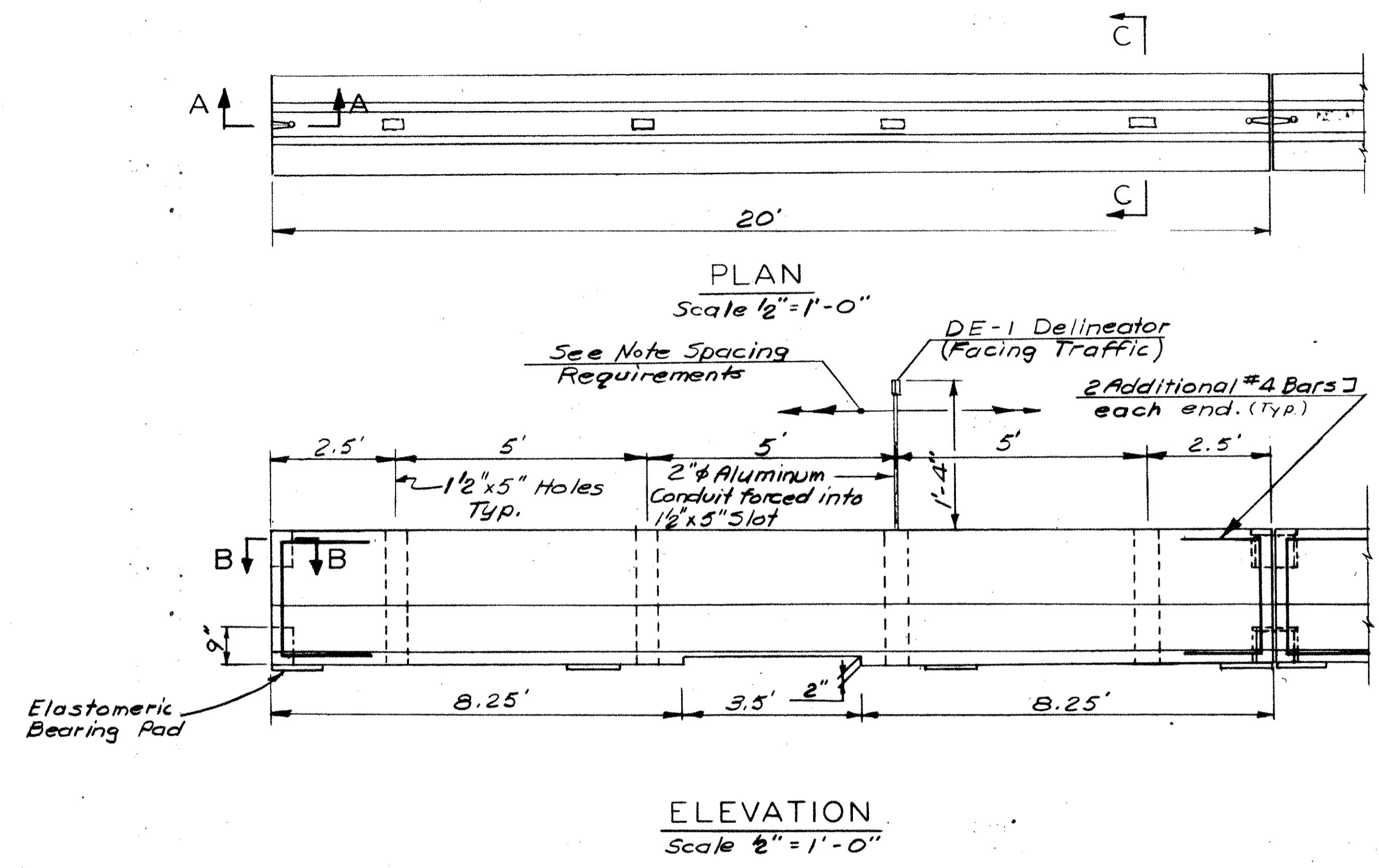
BRUNING 44-132 26280

DELINEATOR SPACING REQUIREMENTS

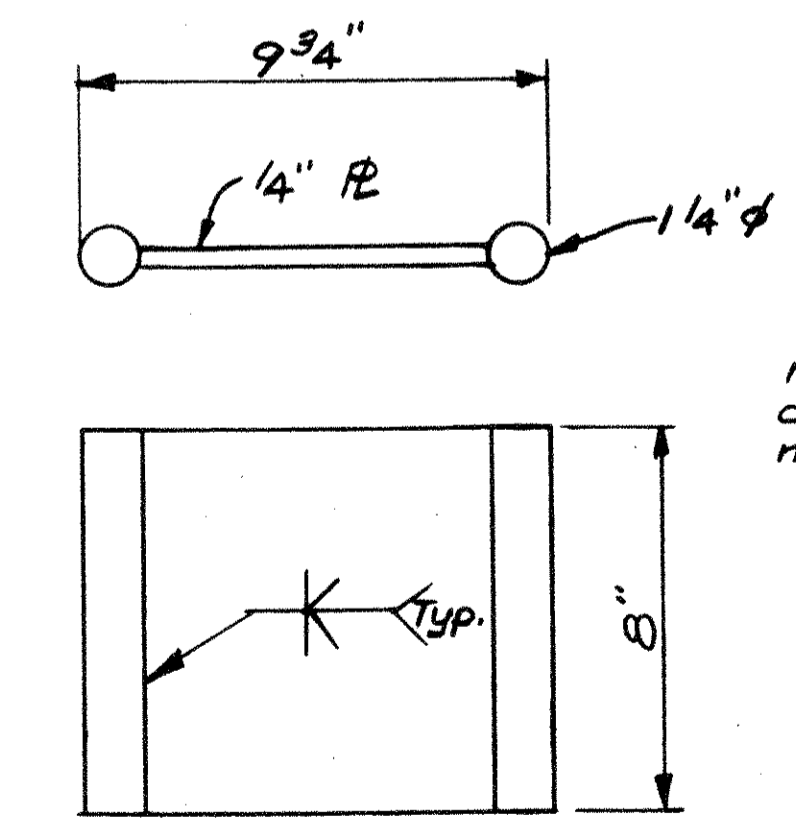
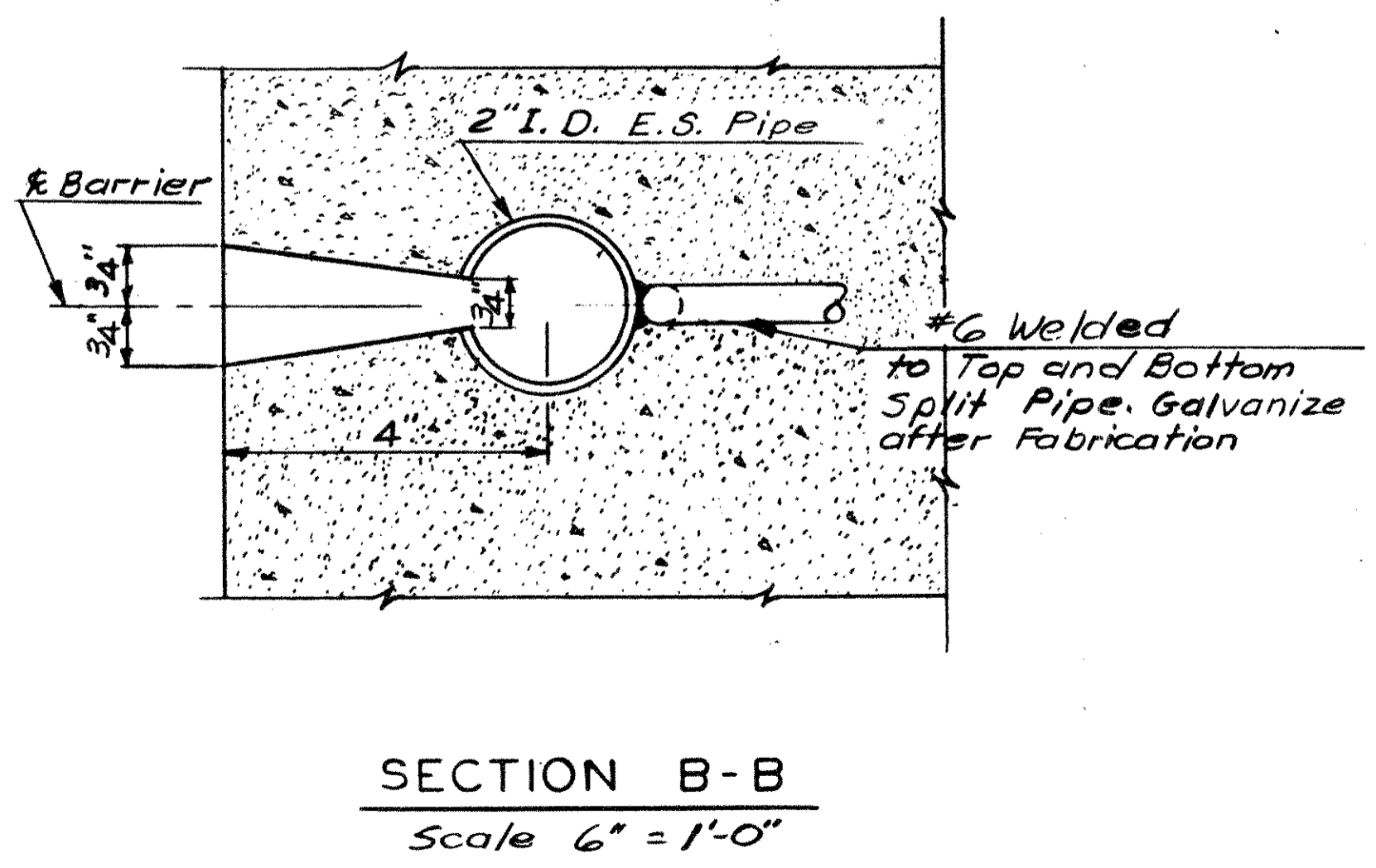
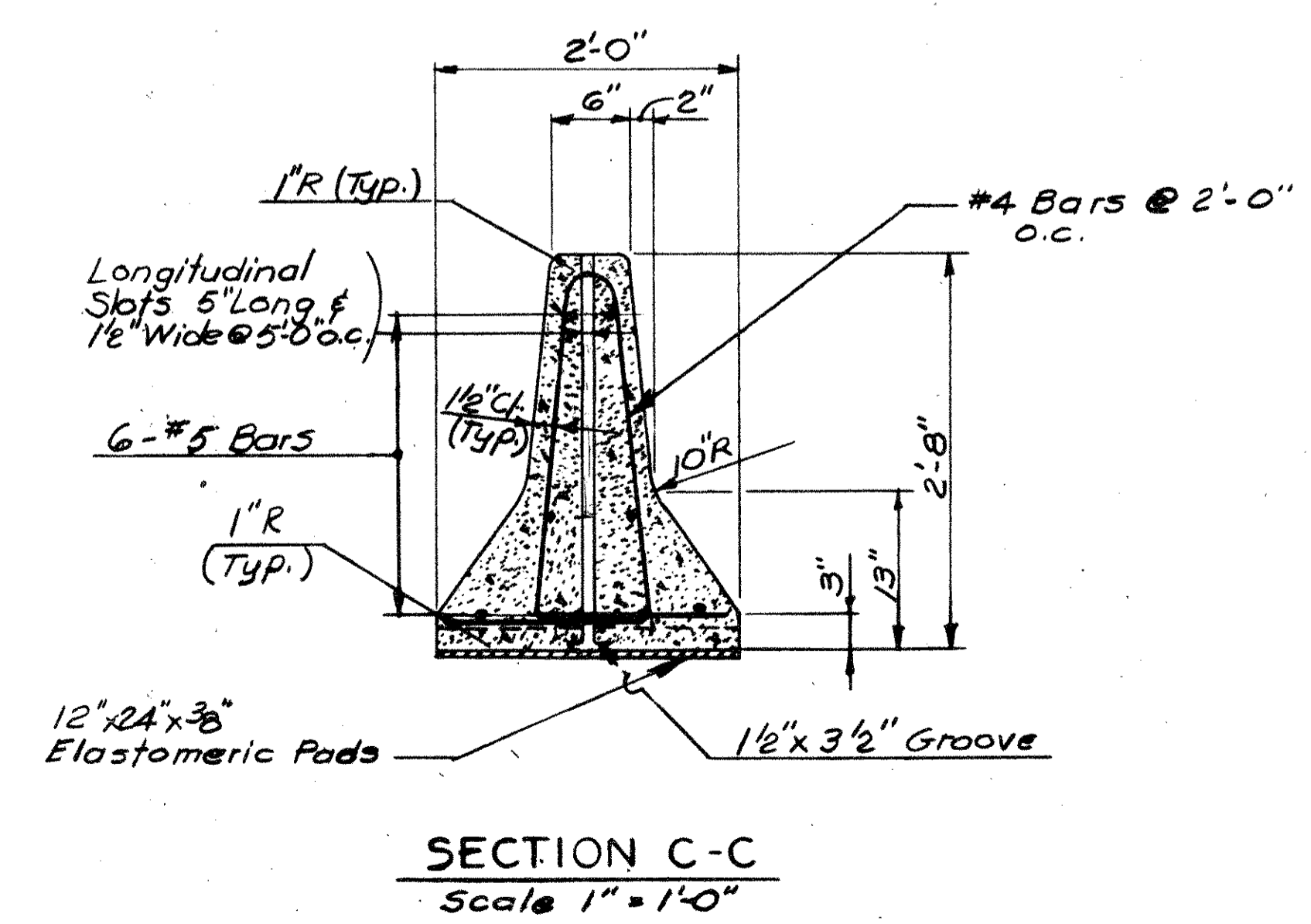
| APPLICATION | SPACING C. TO C. |
|-----------------------------------|------------------|
| Crossover | 20'-25' |
| Bridge Deck | 50' |
| Horiz. Curves Over 3° | 100' |
| Tang & Horiz. Curves Less Than 3° | 200' |

At any interruption in the barriers, such as construction requirements, change in section, bridge expansion joints etc., either open or filled three (3) inch expansion joints shall be provided, & connection plates omitted

Revised July 1, 1977



THIS SHEET VOIDED FOR TEMPORARY BARRIER - ROADWAY SEE SHEET 959



CONNECTION PLATE
Scale 3" = 1'-0"

Steel for Connection Plates shall conform to the requirements of ASTM A-36 and shall be galvanized after fabrication in conformance with the requirements of ASTM A-153.

| | | | |
|---------------------------------------|--------|-------------|--|
| CONNECTICUT | | | |
| DEPARTMENT OF TRANSPORTATION | | | |
| TOLLAND - WILLINGTON | | | |
| RECONSTRUCTION OF INTERSTATE ROUTE 86 | | | |
| TEMPORARY BARRIER - ROADWAY | | | |
| B | 7/1/77 | VOID SHEET | ENGINEER Conn. D.O.T. |
| | | | DESIGNER D.L.C. DRAFTSMAN G.S.D.Jr. CHECKER J.J.B. |
| NO. | DATE | DESCRIPTION | APPROVED [Signature] DATE 6-1-76 |
| | | REVISIONS | |

M 467 01

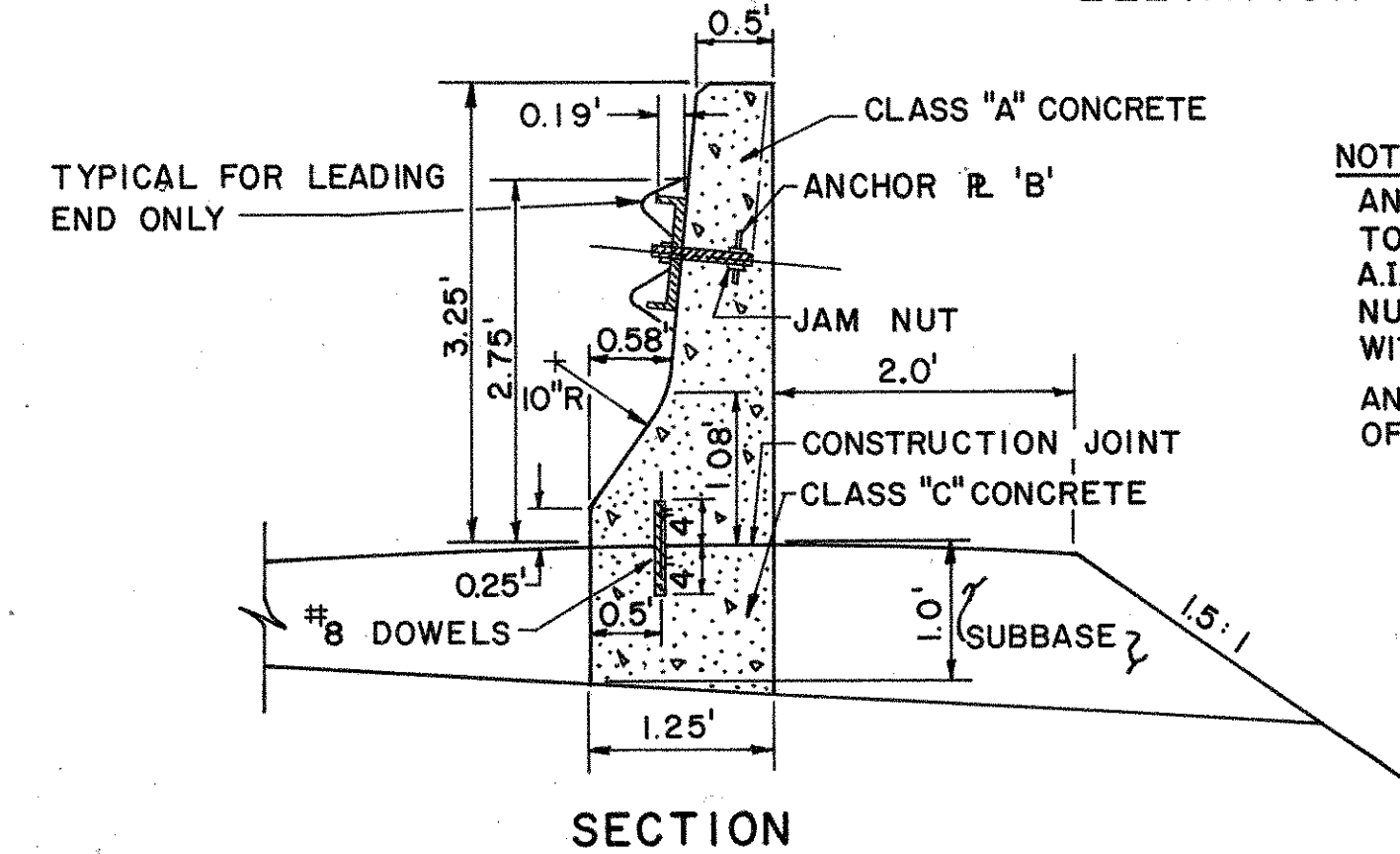
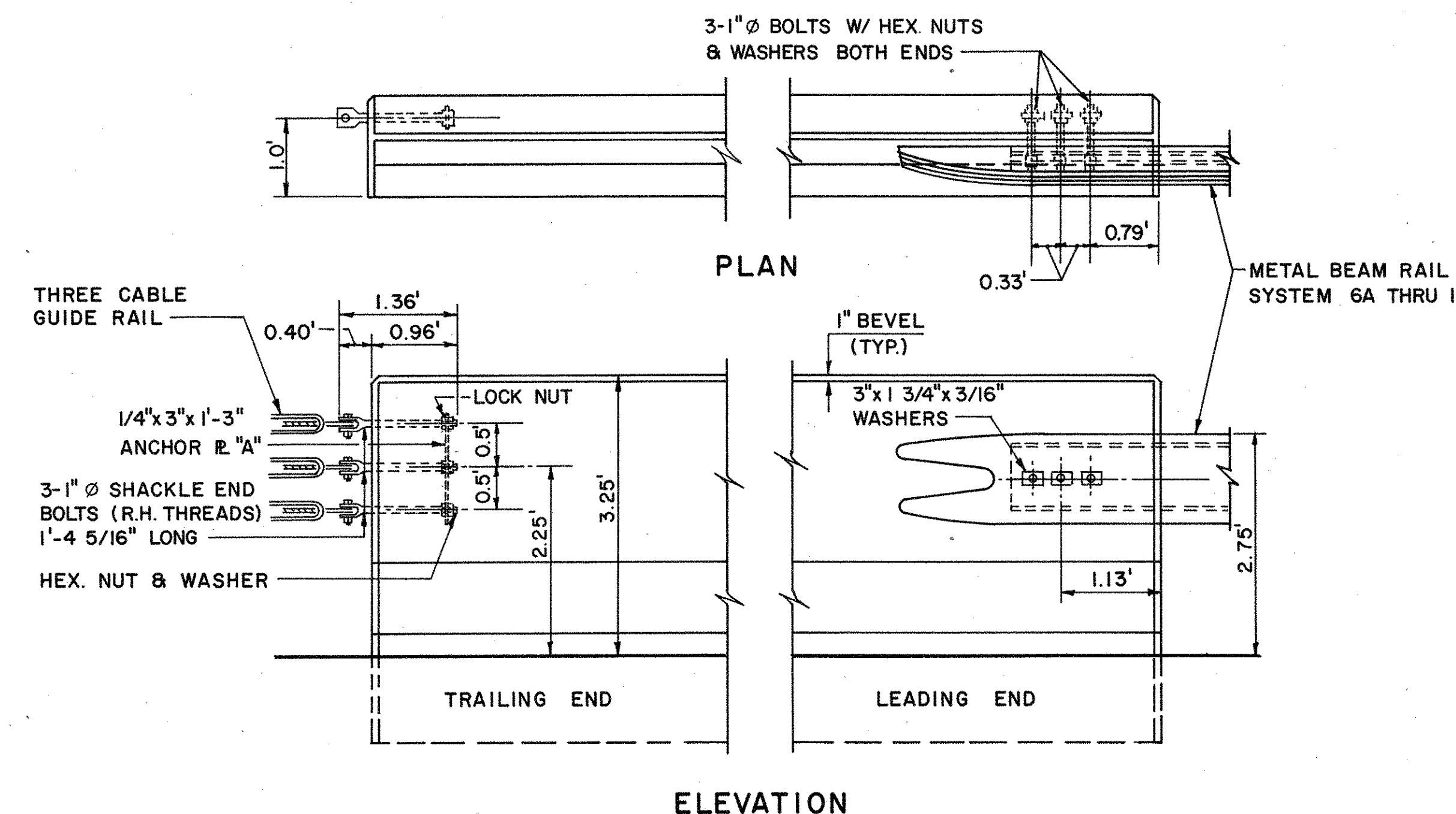
MISCELLANEOUS DETAILS

NOT TO SCALE

| F.H.W.A. REGION NO. | STATE | TOWN | FED. AID PROJ. NO. | PROJ. NO. | YEAR | ROUTE NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|----------------------|--------------------|-----------|------|-----------|-----------|--------------|
| 1 | CONN. | TOLLAND - WILLINGTON | HG-86-2(35)20 | 142-110 | 1976 | 1-86 | 54 | 958 |

RECONSTRUCTION OF INTERSTATE ROUTE 86

| PLAN | NOTED | NO. |
|-----------------------|-------|-----|
| Surveyed | | |
| Plotted | | |
| Traced | | |
| Designed | | |
| New Const. Noted | | |
| Top. Field Chk. Noted | | |



NOTES:
 ANCHOR BOLTS, HEX. NUTS AND WASHERS SHALL CONFORM TO THE PHYSICAL REQUIREMENTS OF A.S.T.M. A325 OR A.I.S.I. 4140 (ANNEALED AND COLD DRAWN) ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. A153.
 ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A36

CONCRETE BARRIER
 RAMP W-2 STA. 12+00 TO STA. 10+00=
 MAINLINE STA. 516+84 TO STA. 517+24

THIS SHEET NOT CORRECTED

| REVISIONS | | | |
|-----------|------|-------------|----------------|
| NO. | DATE | DESCRIPTION | REV. SHEET NO. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

BRUNING 44-510-19407

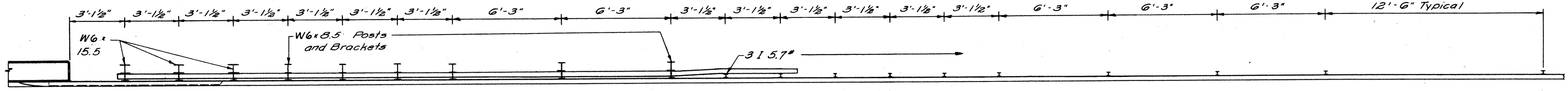
142 110

M 467 01

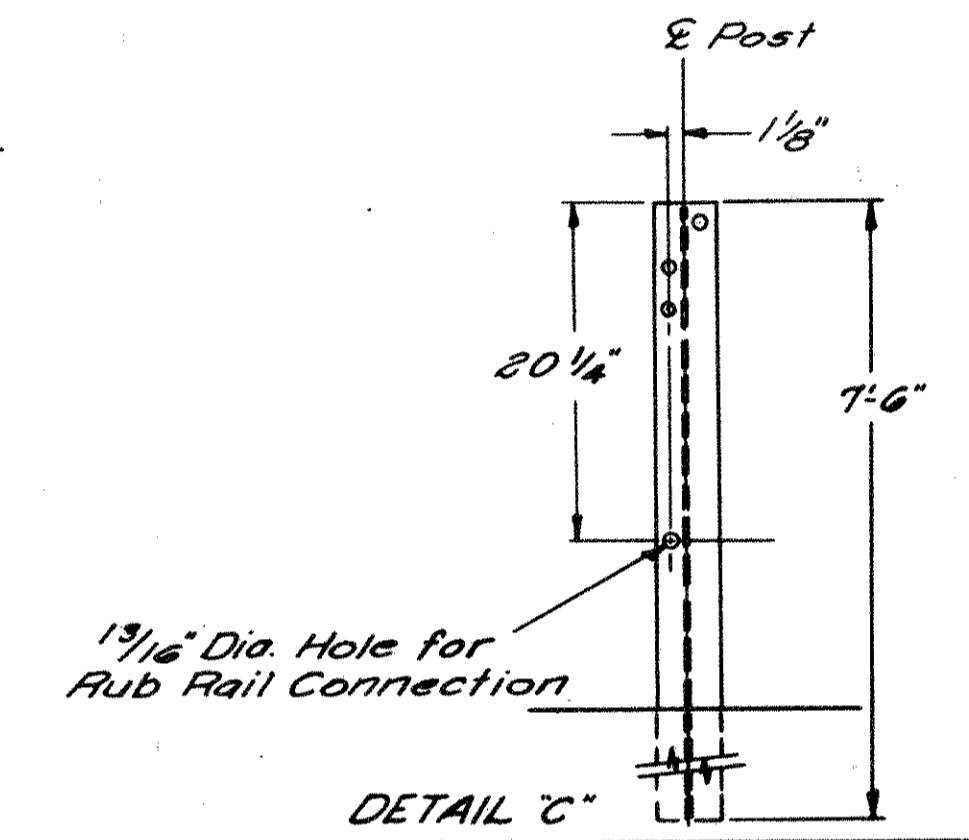
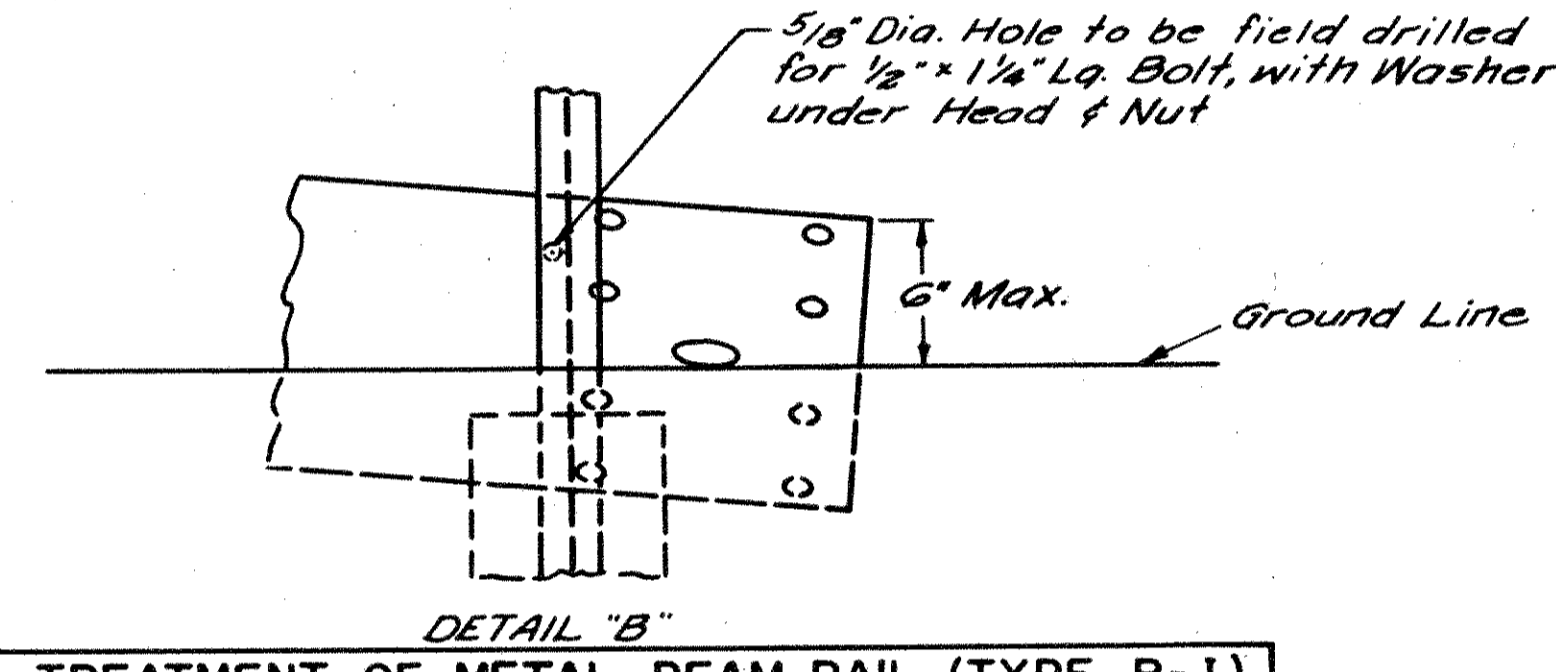
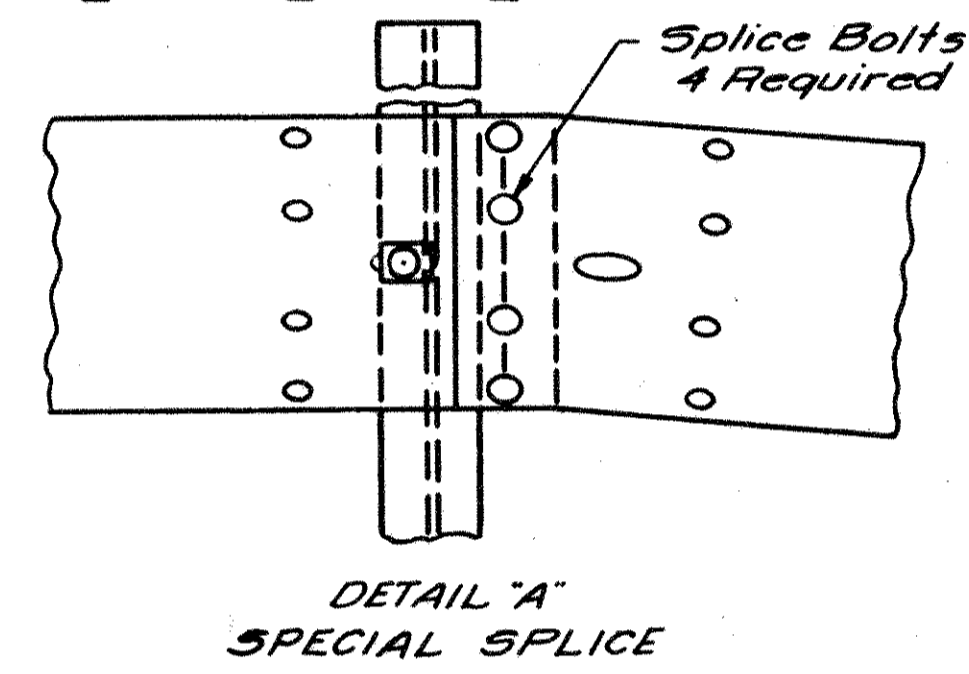
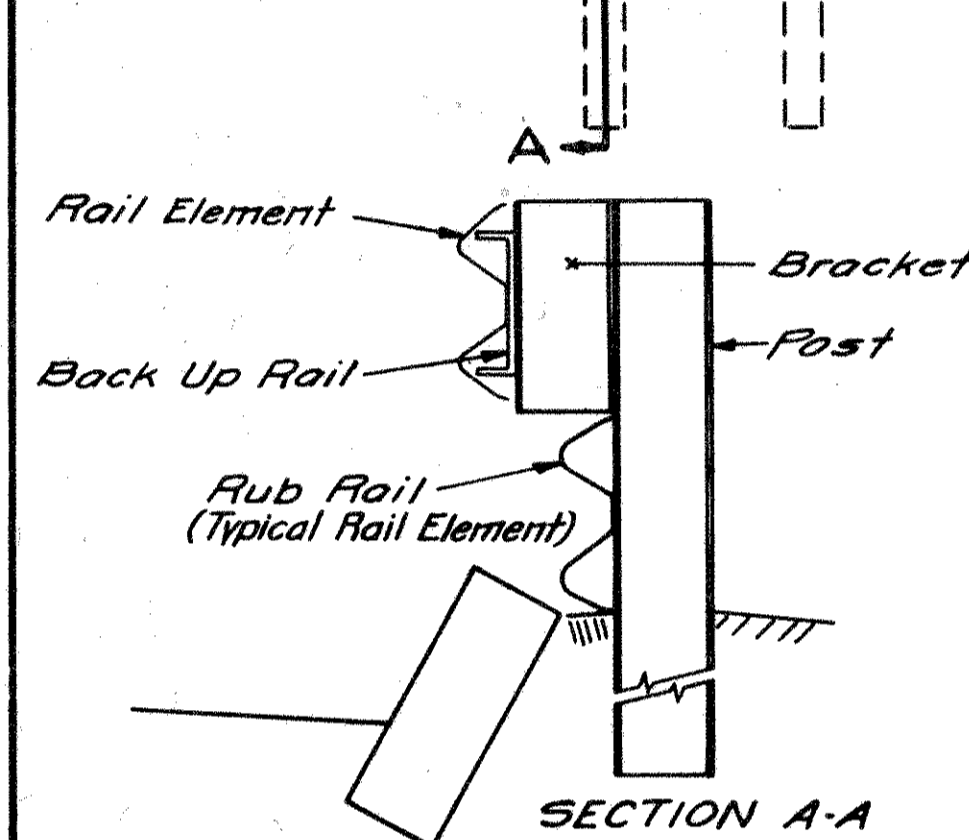
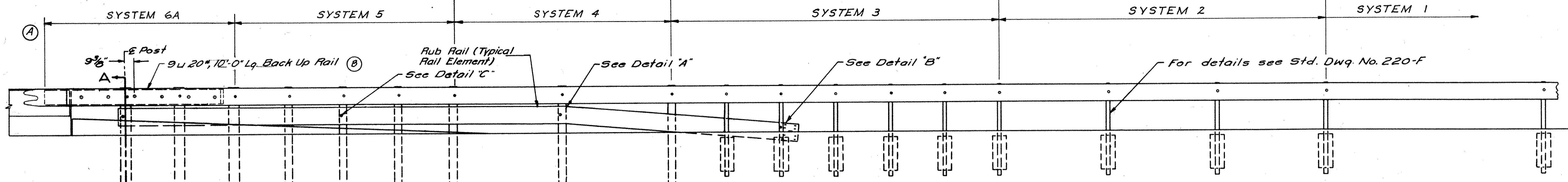
54

MISCELLANEOUS DETAILS

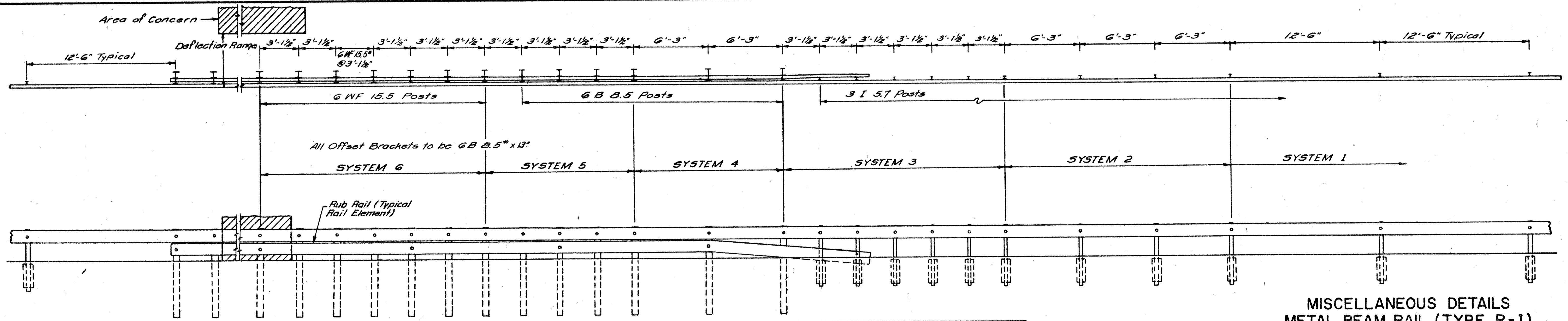
| Pub. Road Div. No. | State | Town | Fed. Aid Proj. No. | Proj. No. | Year | Rev. No. | Sheet No. | Total Sheets |
|--------------------|-------|--------------------|--------------------|-----------|------|----------|-----------|--------------|
| 1 | CONN. | TOLLAND-WILLINGTON | I-6-86-2(35)20 | 142-110 | 1976 | 1-86 | 55 | 958 |



For additional details see MISCELLANEOUS DETAILS METAL BEAM RAIL (TYPE R-1) SHEET B



TERMINAL TREATMENT OF METAL BEAM RAIL (TYPE R-1) AT LEADING END OF BRIDGE PARAPET



MISCELLANEOUS DETAILS METAL BEAM RAIL (TYPE R-1) SHEET A

| | | SYSTEM 6 | SYSTEM 5 | SYSTEM 4 | SYSTEM 3 | SYSTEM 2 | SYSTEM 1 | TOTAL LENGTH |
|--------------------------------|--|--|---|---|------------------------------------|--------------------------------|---|--------------|
| Maximum Anticipated Deflection | Area of Concern plus two posts, see sketch below | W6 x 15.5 Posts at 3'-1 1/2" centers with Rub Rail | W6 x 8.5 Posts at 3'-1 1/2" centers with Rub Rail | W6 x 8.5 Posts at 6'-3" centers with Rub Rail | 3 I 5.7 Posts at 3'-1 1/2" centers | 3 I 5.7 Posts at 6'-3" Centers | Standard 33 x 5.7 Posts at 12'-6" Centers | Value of "L" |
| 2' | Posts & Spacing for System 6 | 12'-6" Min. | 12'-6" | 12'-6" | 18'-9" | 18'-9" | — | 75' |
| 3' | System 5 | — | — | 37'-6" | 18'-9" | 18'-9" | — | 75' |
| 4 1/2' | System 4 | — | — | — | 37'-6" | 18'-9" | — | 56'-3" |
| 6' | System 3 | — | — | — | — | 37'-6" | — | 37'-6" |
| 5' | System 2 | — | — | — | — | — | — | — |

THIS SHEET NOT CORRECTED

NOT TO SCALE

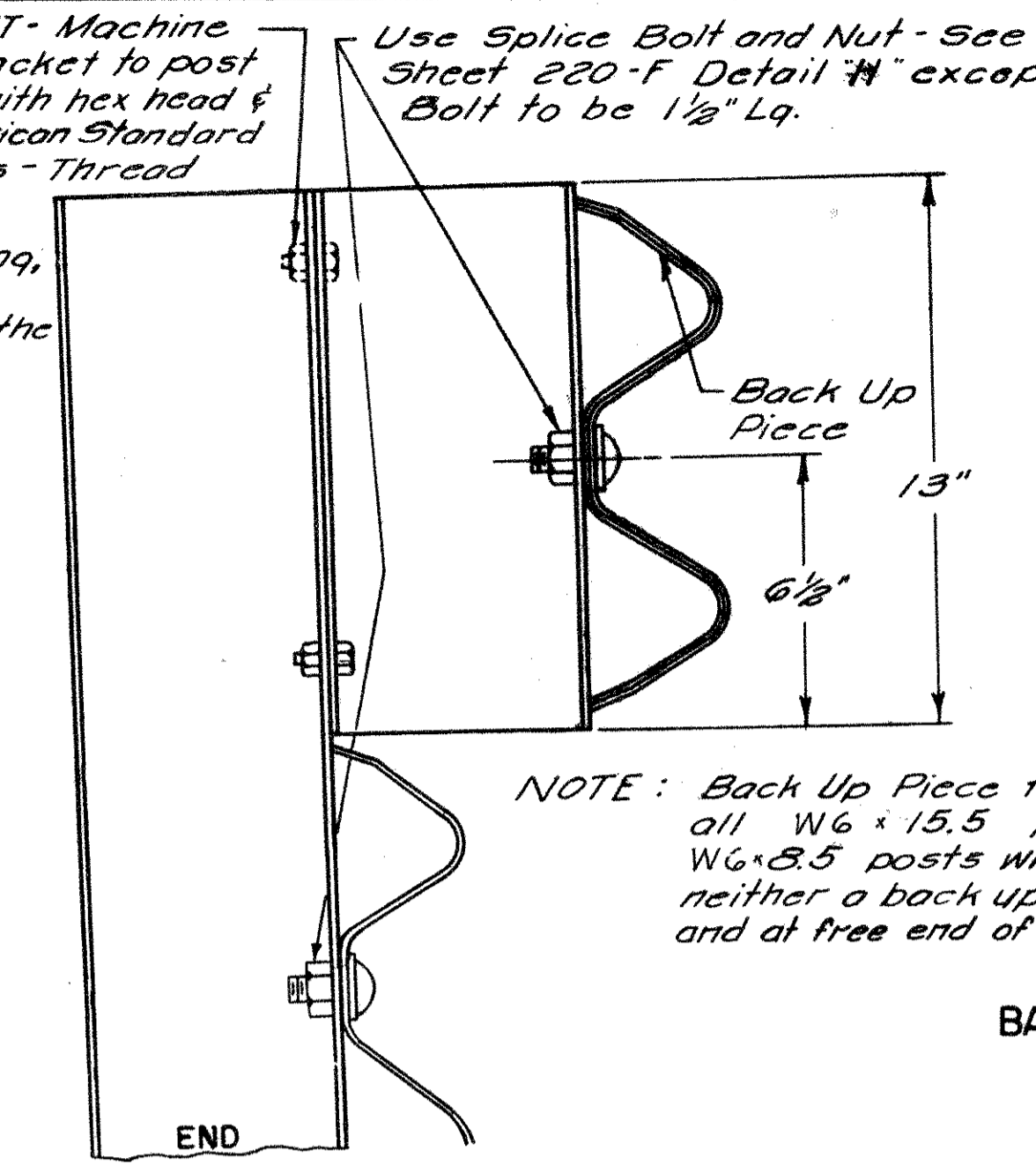
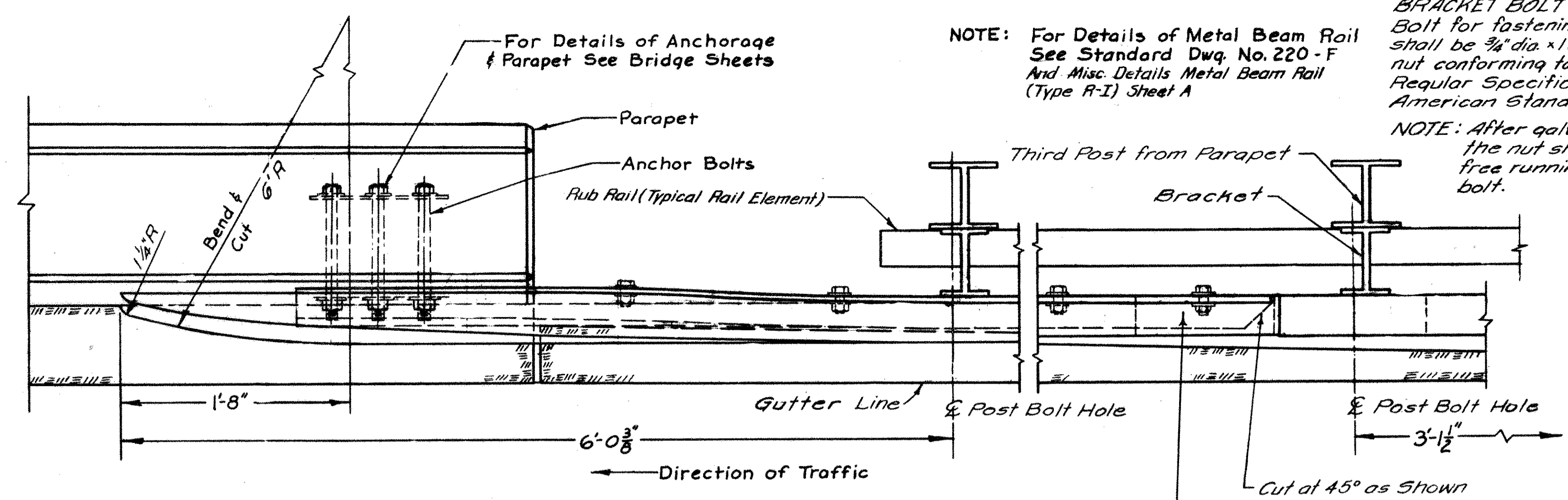
| REVISIONS | | | |
|-----------|-------|--------------------------------------|----------------|
| NO. | DATE | DESCRIPTION | REV. SHEET NO. |
| A | 7-76 | Note Deletion | |
| B | 7-76 | Backup Rail length Rev. | |
| C | 12-74 | Reference change from 220-8 to 220-7 | |
| D | 7-75 | Nomenclature change | |

TREATMENT OF METAL BEAM RAIL (TYPE R-1) AT FIXED OBJECT

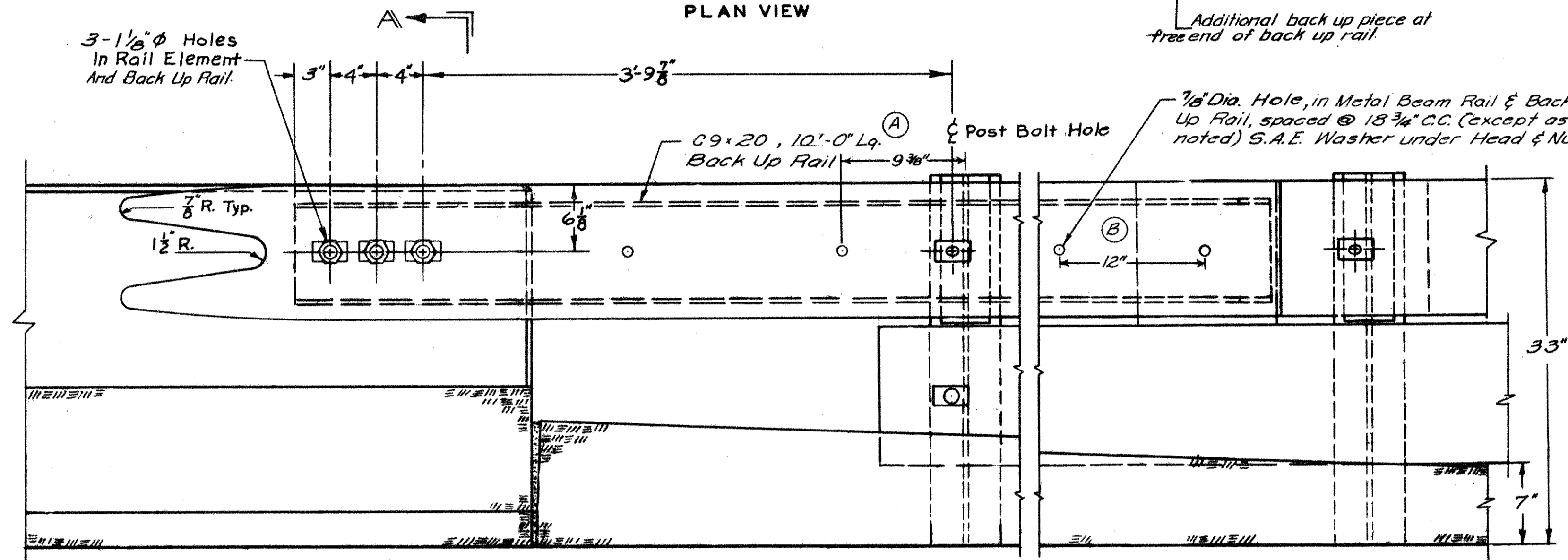
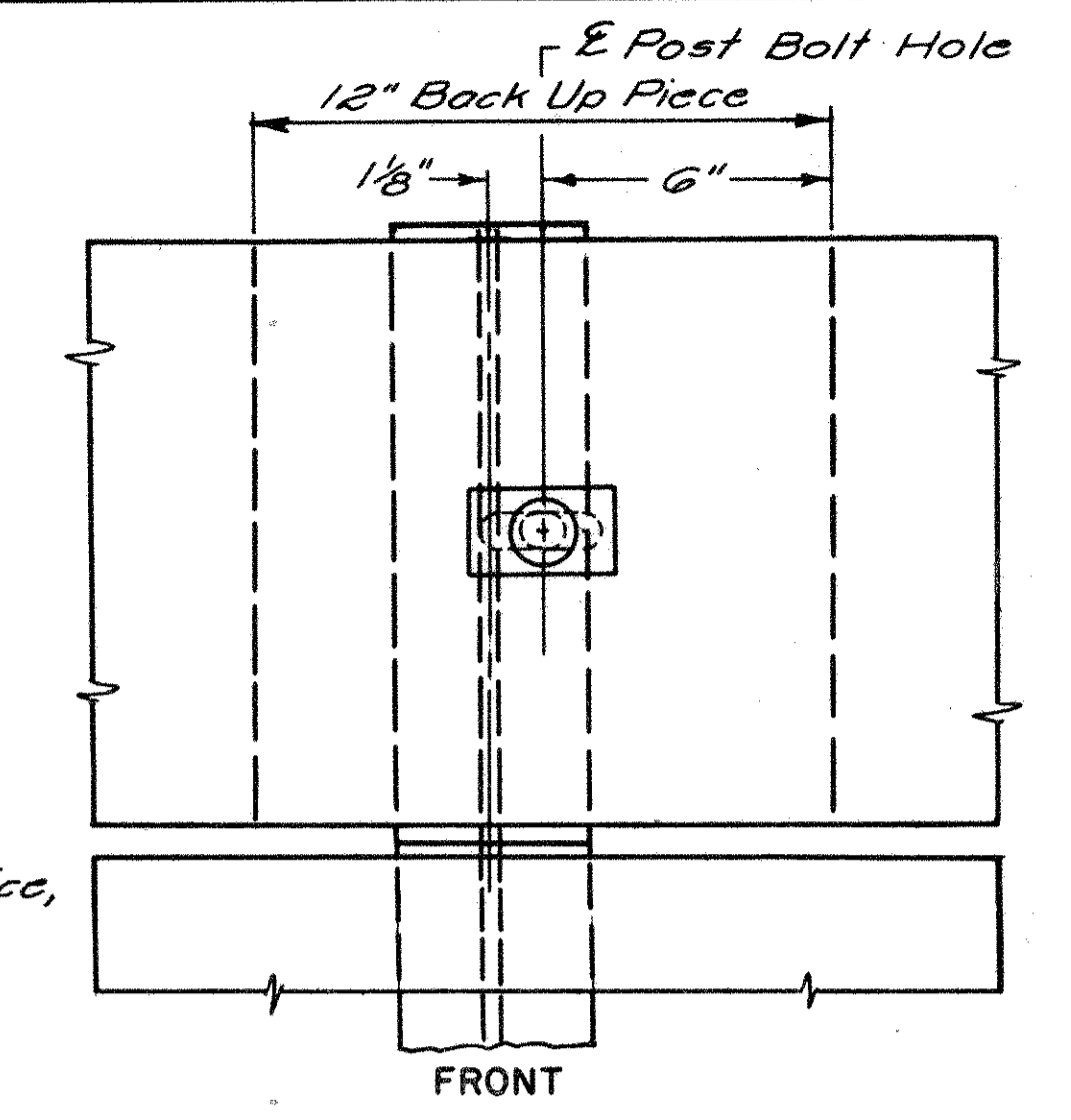
CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS SPECIAL STUDIES UNIT

M 467 01

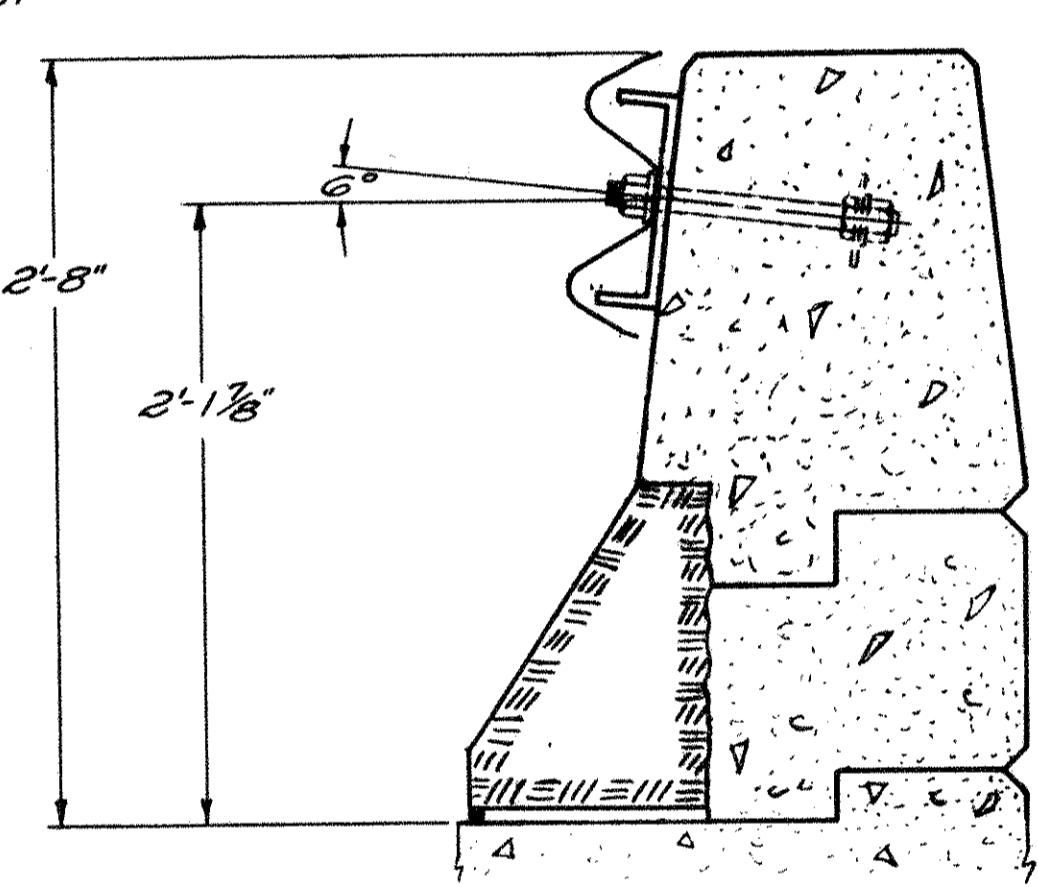
| PUB. ROAD DIV. NO. | STATE | TOWN | FED. AID PROJ. NO. | PROJ. NO. | YEAR | ROUTE NO. | SHEET NO. | TOTAL SHEETS |
|--------------------|-------|----------------------|--------------------|-----------|------|-----------|-----------|--------------|
| 1 | CONN. | TOLLAND - WILLINGTON | -16-86-23520 | 142-110 | 1976 | 1-86 | 56 | 958 |



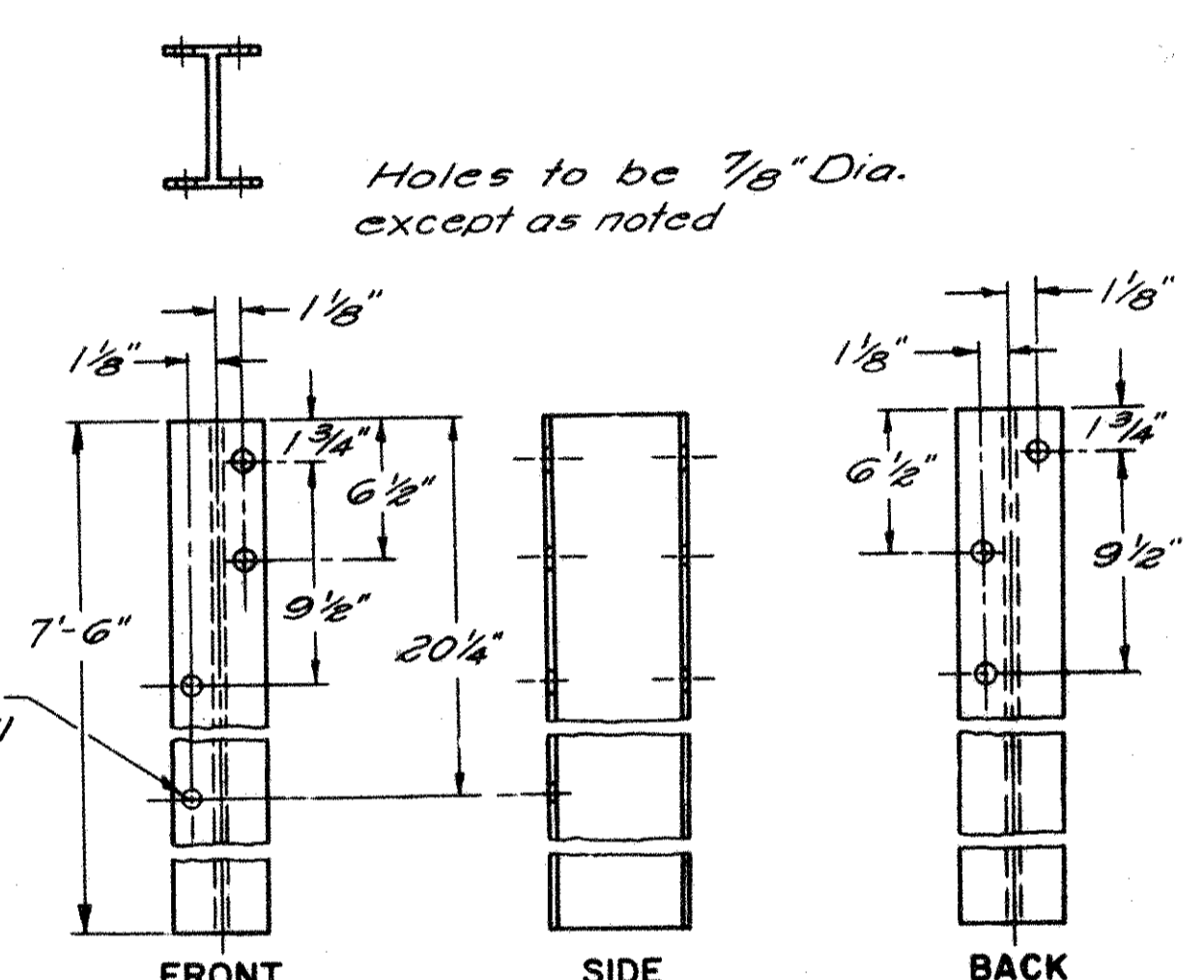
BACK UP PIECE



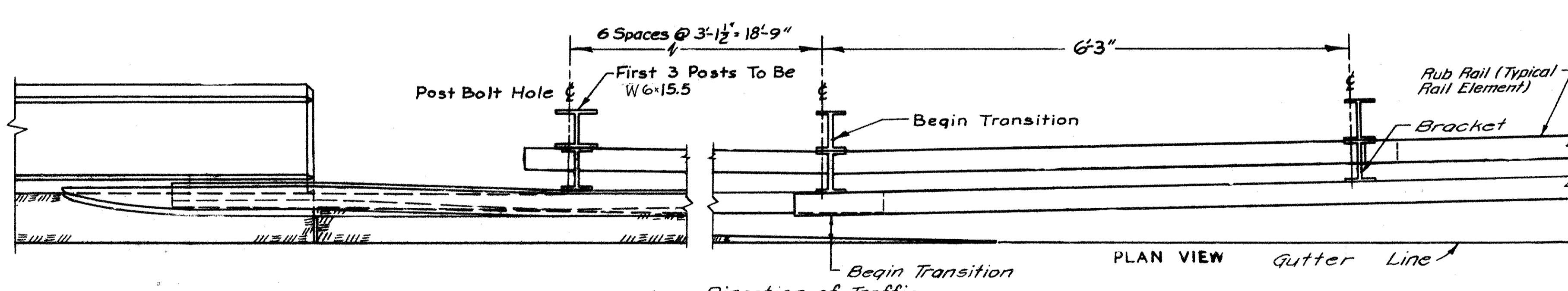
ATTACHMENT AT LEADING END OF BRIDGE PARAPET



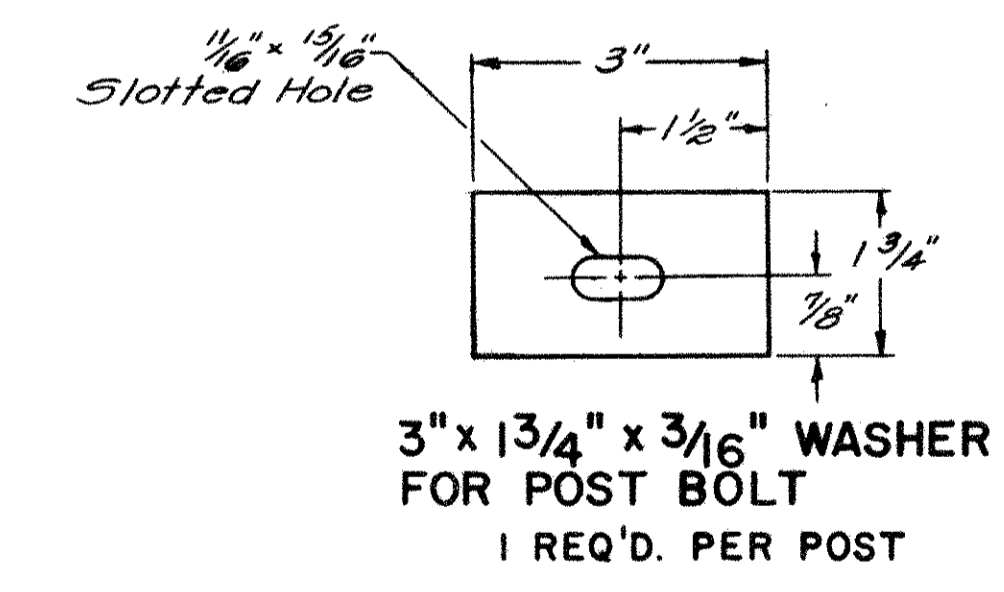
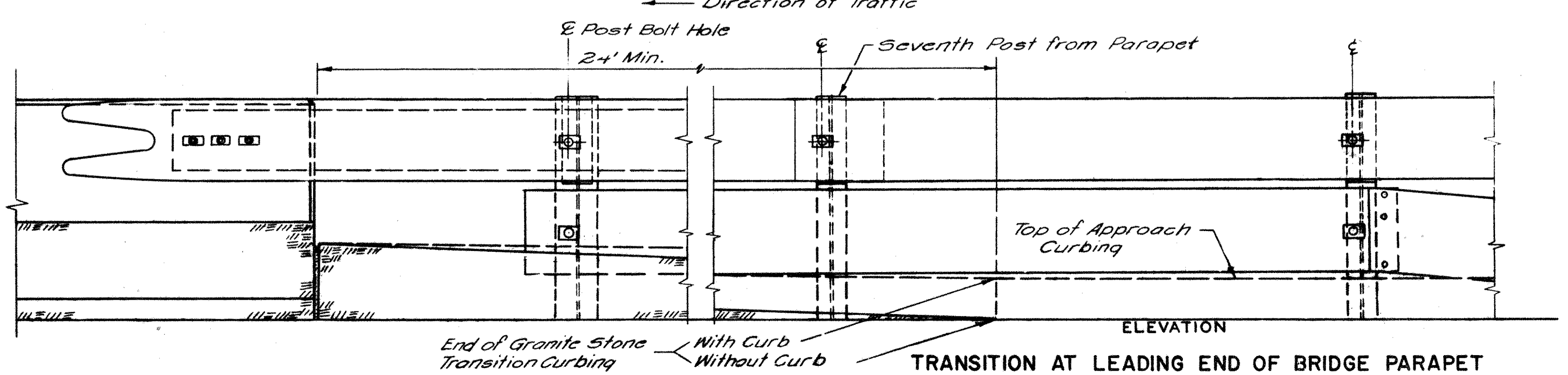
SECTION A-A



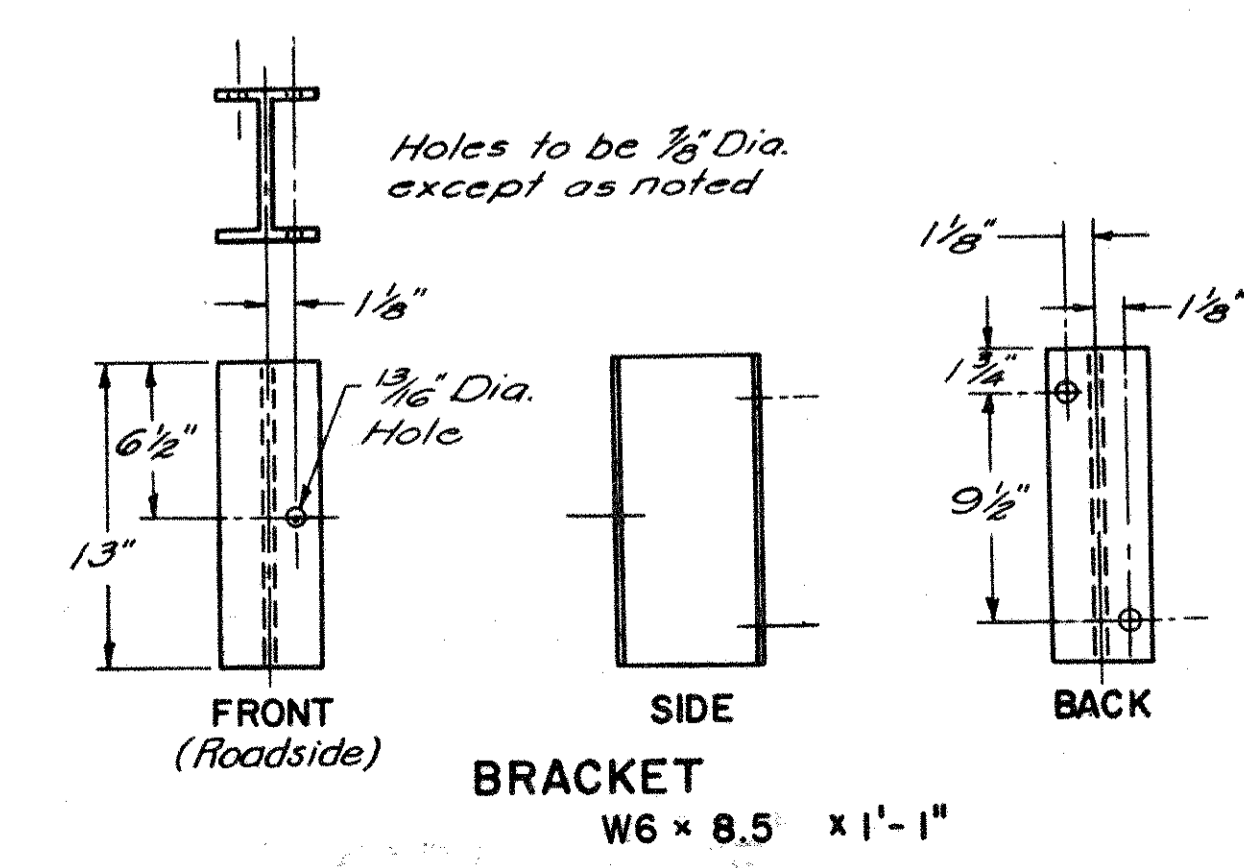
DETAIL SHOWING LOCATION OF HOLES FOR ATTACHING BRACKET TO POST



TRANSITION AT LEADING END OF BRIDGE PARAPET



3" x 1 3/4" x 3/16" WASHER FOR POST BOLT
1 REQ'D. PER POST



BRACKET
W6 x 8.5 x 1'-1"

THIS SHEET NOT CORRECTED

MISCELLANEOUS DETAILS
METAL BEAM RAIL (TYPE R-1)
SHEET B

SPECIAL STUDIES UNIT

NOT TO SCALE

| REVISIONS | | | |
|-----------|------|-----------------------------|----------------|
| NO. | DATE | DESCRIPTION | REV. SHEET NO. |
| A | 7-72 | Back Up Rail Length Revised | |
| B | 7-72 | Hole Spacing | |
| C | 7-72 | Note Revised | |
| D | 6-75 | Sheet reference change | |
| E | 7-75 | Nomenclature change | |

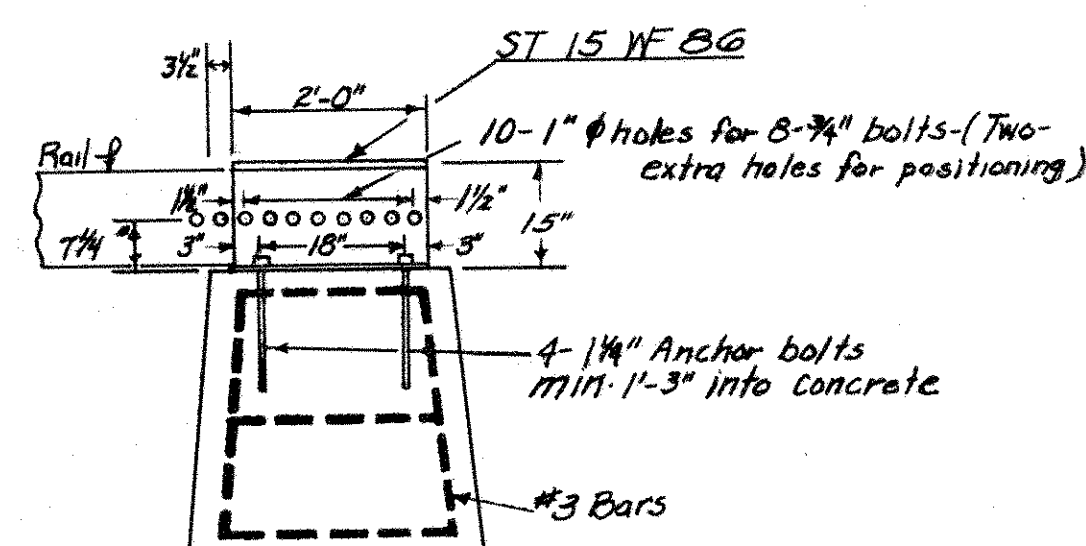
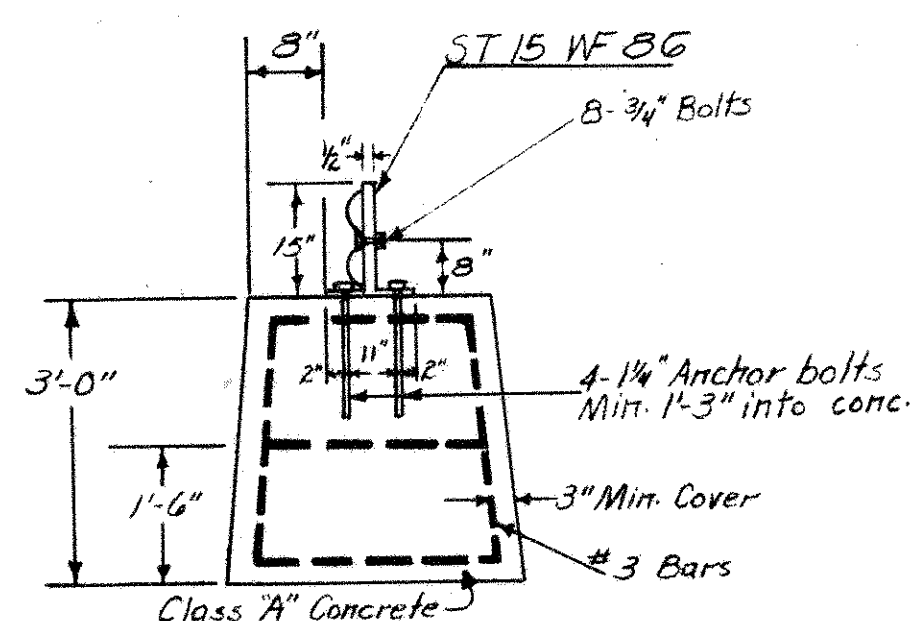
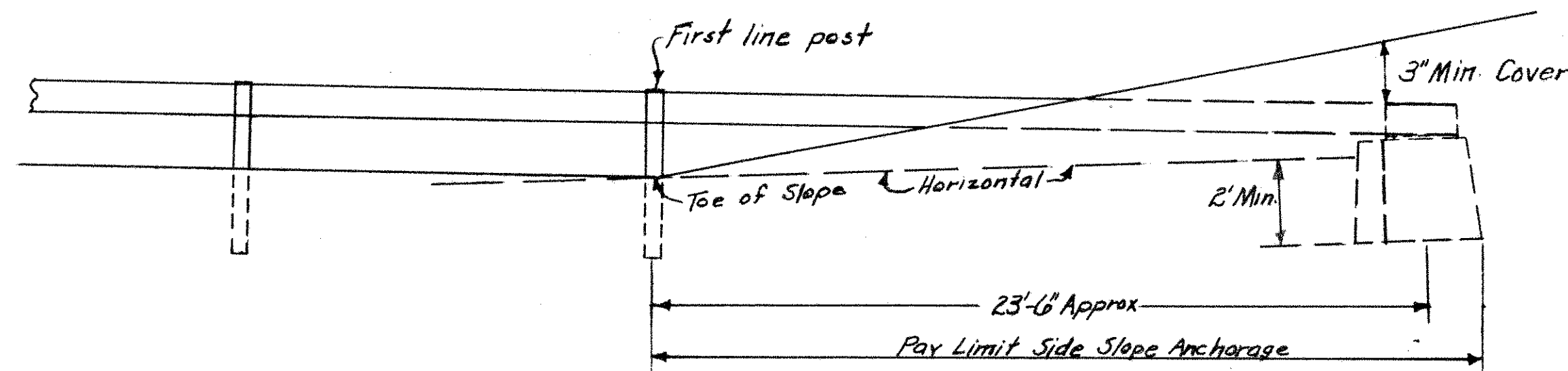
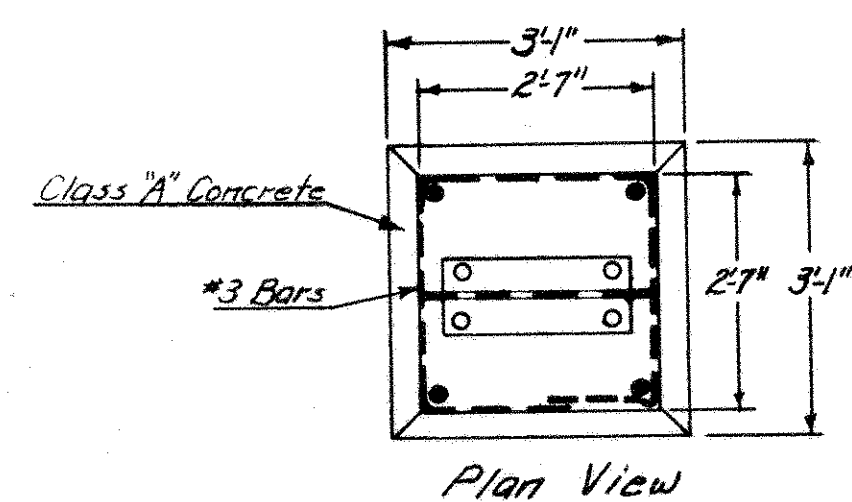
| | |
|-----------------------|--|
| Planned | |
| Trace | |
| Designed | |
| New Const. Noted | |
| Typ. Field Chk. Noted | |
| NOTE BOOK NO. | |

MISCELLANEOUS DETAILS

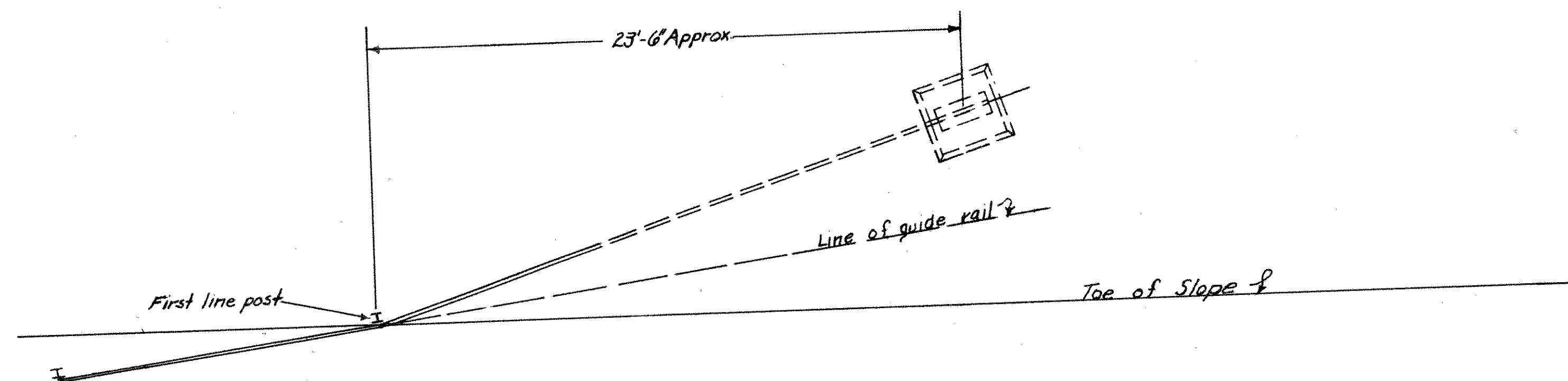
NOT TO SCALE

| PUB. ROAD DIV. NO. | STATE | TOWN | FED. AID PROJ. NO. | PROJ. NO. | YEAR | ROUTE NO. | SHEET NO. | TOTAL SHEETS |
|--------------------|-------|--------------------|--------------------|-----------|------|-----------|-----------|--------------|
| 1 | CONN. | TOLLAND-WILLINGTON | 1-IG-86-23520 | 142-110 | 1976 | 1-86 | 57 | 958 |

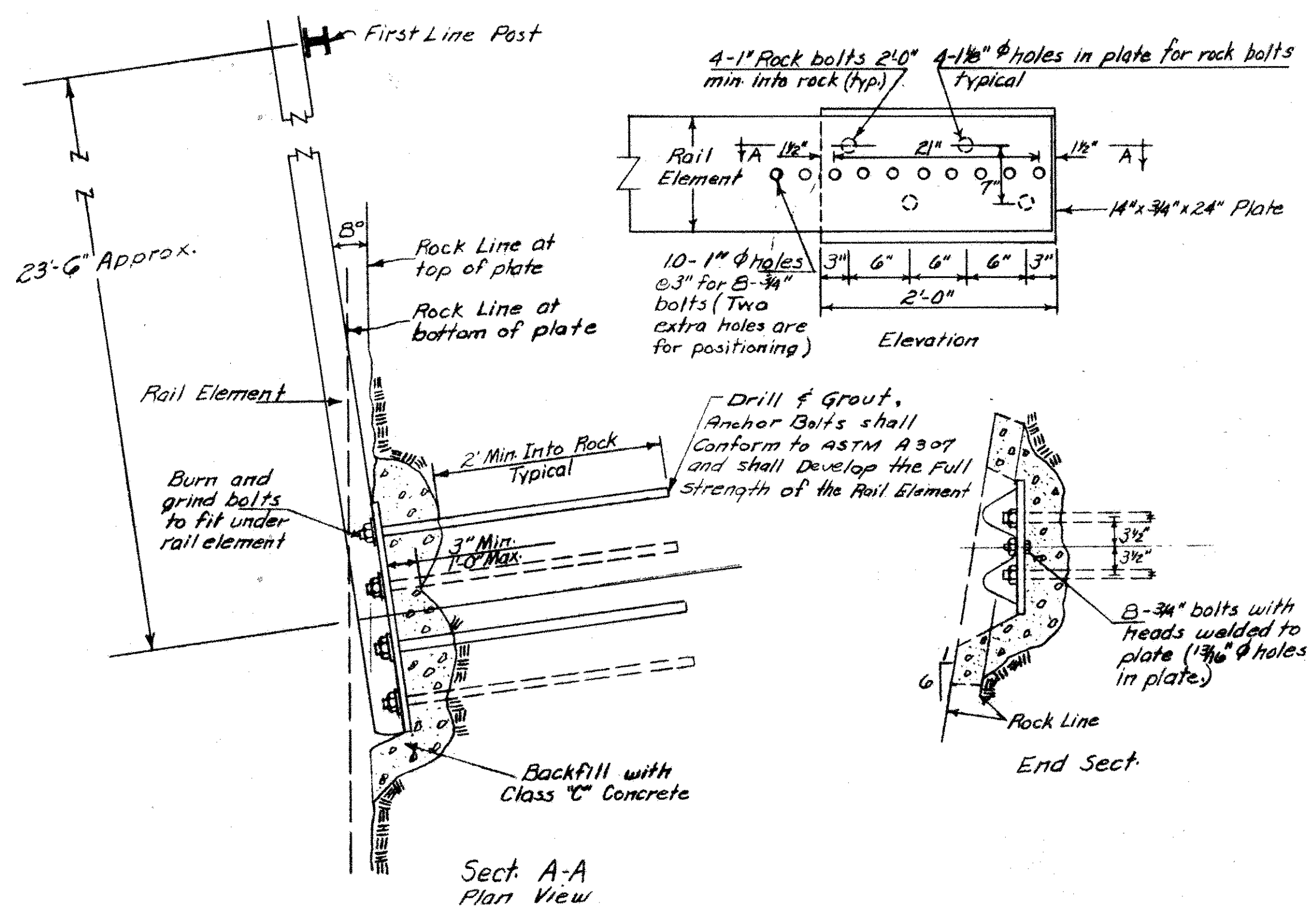
RECONSTRUCTION OF
INTERSTATE ROUTE 86
MISCELLANEOUS DETAILS



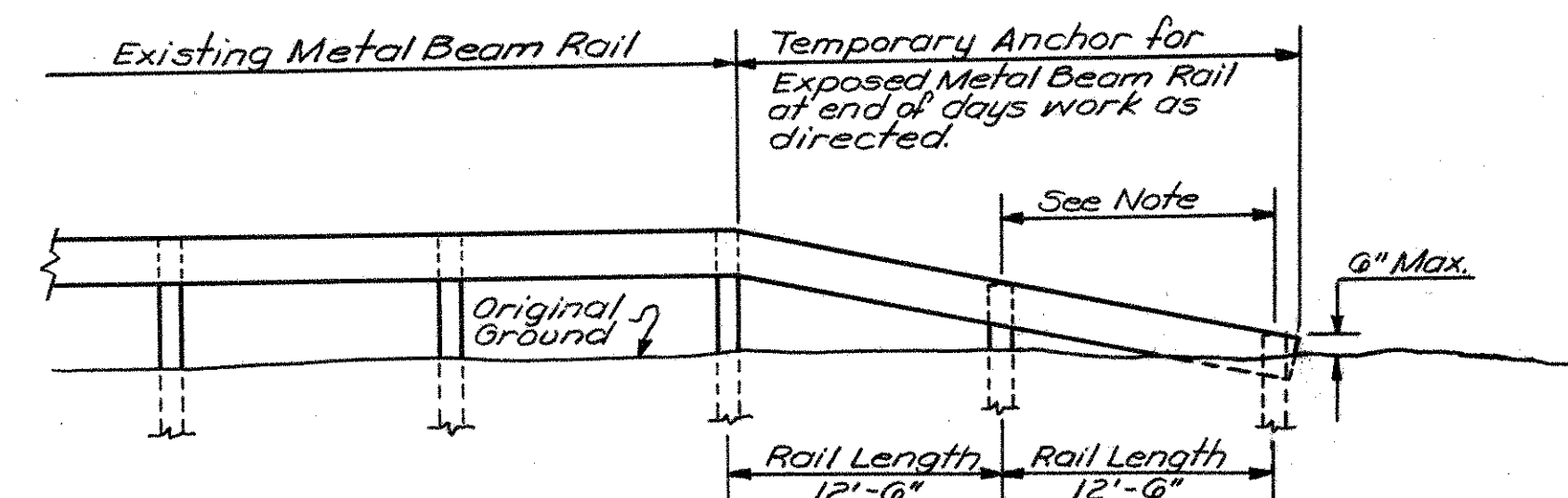
DETAILS OF ANCHOR IN EARTH CUT



LEADING TERMINAL OF METAL BEAM RAIL (TYPE R-1)
BURIED AND ANCHORED IN SIDE SLOPE



DETAILS OF ANCHOR IN ROCK CUT



NOTE - For Metal Beam Rail, Type R-1 or MD-1 use R-B (6B-8.5" post) with R-B bolt and nut for post attachment.

TEMPORARY TERMINAL SECTION FOR EXPOSED METAL BEAM RAIL

THIS SHEET NOT CORRECTED

| REVISIONS | | | |
|-----------|-------|-------------|----------------|
| NO. | DATE | DESCRIPTION | REV. SHEET NO. |
| 1 | 10-71 | REVISED | |
| | | | |
| | | | |
| | | | |

M 467 01

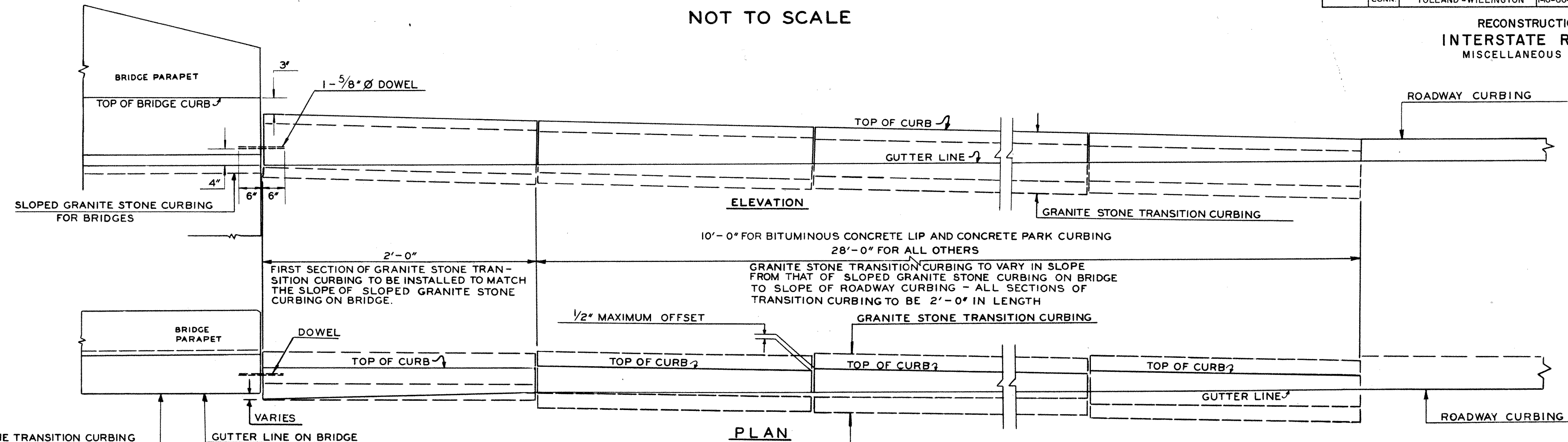
MISCELLANEOUS DETAILS

NOT TO SCALE

| | | | | | | | | |
|--------------------|-------|----------------------|--------------------|-----------|------|-----------|-----------|--------------|
| PUB. ROAD DIV. NO. | STATE | TOWN | FED. AID PROJ. NO. | PROJ. NO. | YEAR | ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | CONN. | TOLLAND - WILLINGTON | I-6-86-2(35)20 | 142-110 | 1976 | 1-86 | 58 | 958 |

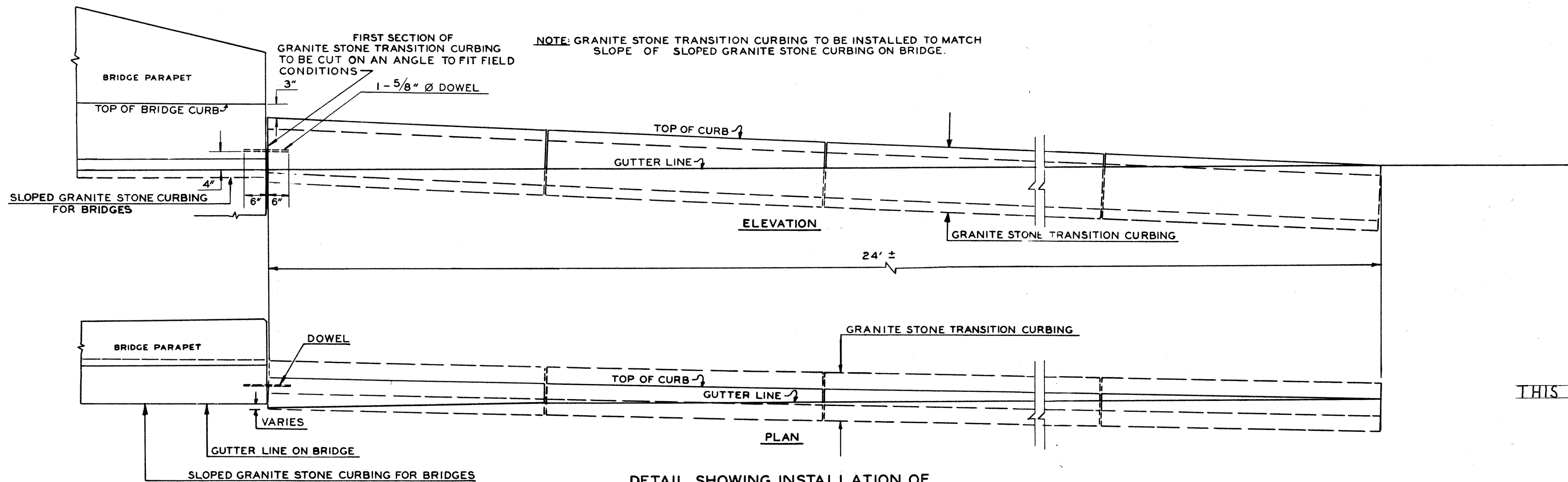
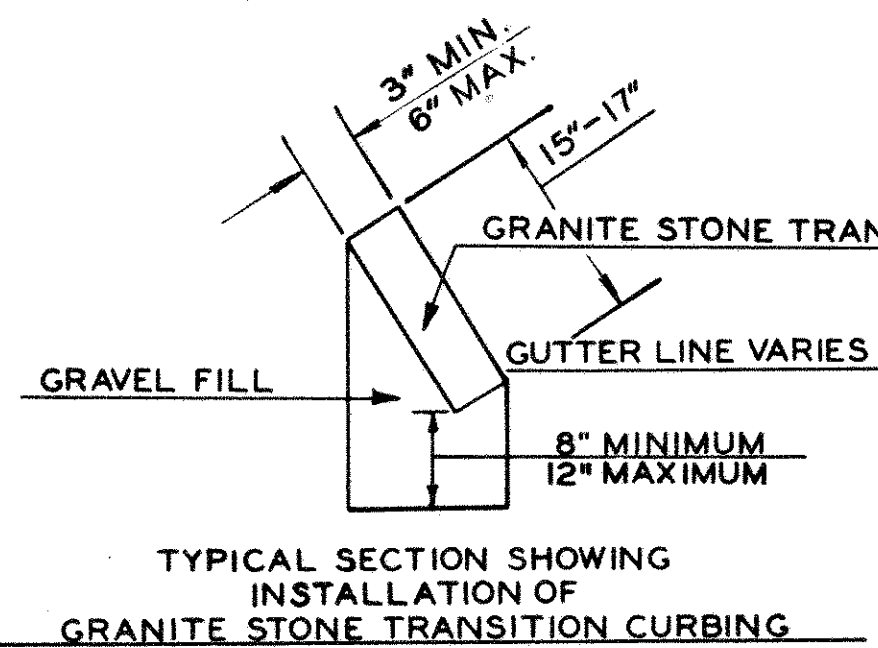
RECONSTRUCTION OF INTERSTATE ROUTE 86

MISCELLANEOUS DETAILS



DETAIL SHOWING INSTALLATION OF GRANITE STONE TRANSITION CURBING BETWEEN BRIDGE CURBING AND ROADWAY CURBING

NOTE: 1) GRANITE STONE TRANSITION CURBING WILL BE INSTALLED AS NOTED ON THE PLANS AND ACCORDING TO THE PERTINENT SPECIFICATIONS FOR "GRANITE SLOPE CURBING".



DETAIL SHOWING INSTALLATION OF GRANITE STONE TRANSITION CURBING ADJACENT TO BRIDGE CURBING (NO ADJACENT ROADWAY CURBING)

THIS SHEET NOT CORRECTED

| REVISIONS | | | |
|-----------|------|-------------|----------------|
| NO. | DATE | DESCRIPTION | REV. SHEET NO. |
| | | | |
| | | | |
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| | | | |

167-01

TEMPORARY BARRIER-ROADWAY

RECONSTRUCTION OF ROUTE I-86
 Added For Construction Order July 1, 1977

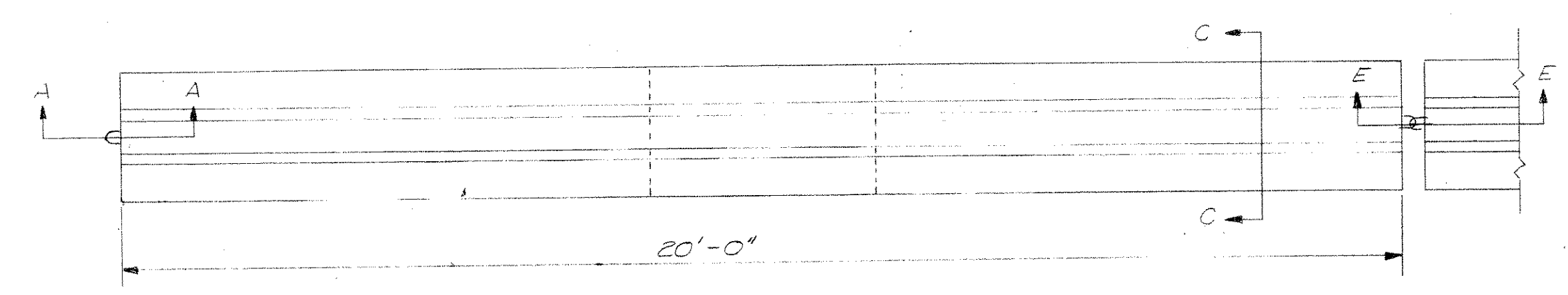
DELINEATOR SPACING REQUIREMENTS

| APPLICATION | SPACING, C. to C. |
|--|-------------------|
| Crossover | 20' - 25' |
| Bridge Deck | 50' |
| Horizontal Curves over 3° | 100' |
| Tangent and Horizontal Curves less than 3° | 200' |

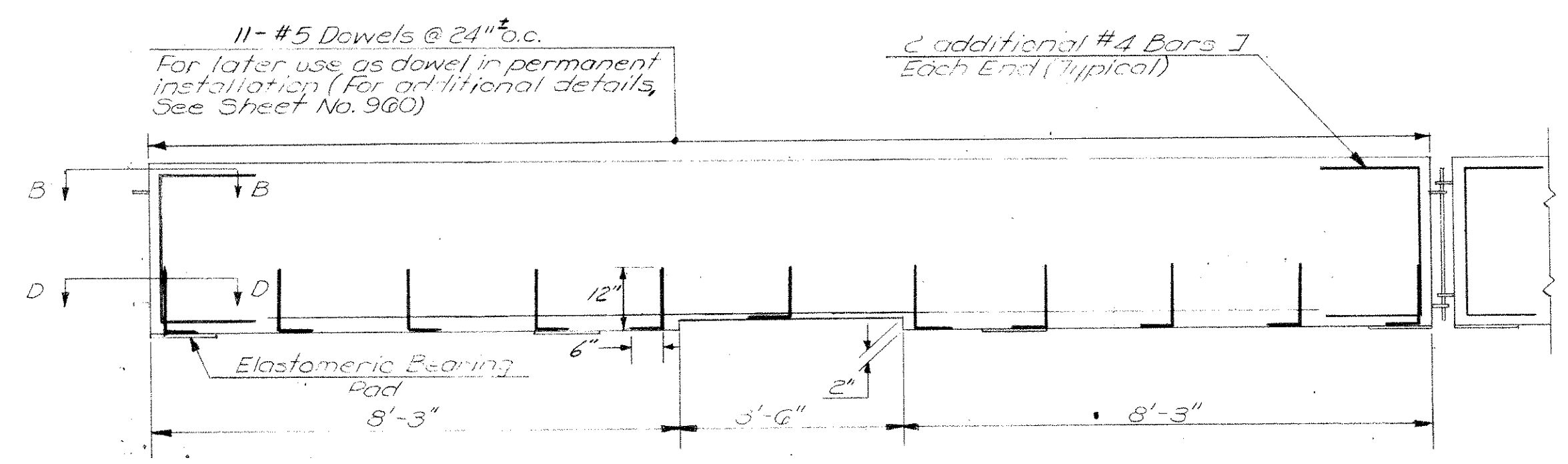
At any interruption in the barriers such as construction requirements, change in section, bridge expansion joints etc., either open or filled. Three (3) inch expansion joints shall be provided and shear pins omitted.

Steel for Connection Pins shall conform to the requirements of A.S.T.M. A-36 and shall be galvanized after fabrication in conformance with the requirements of A.S.T.M. A-153.

NO REVISIONS SUBMITTED FOR THIS SHEET

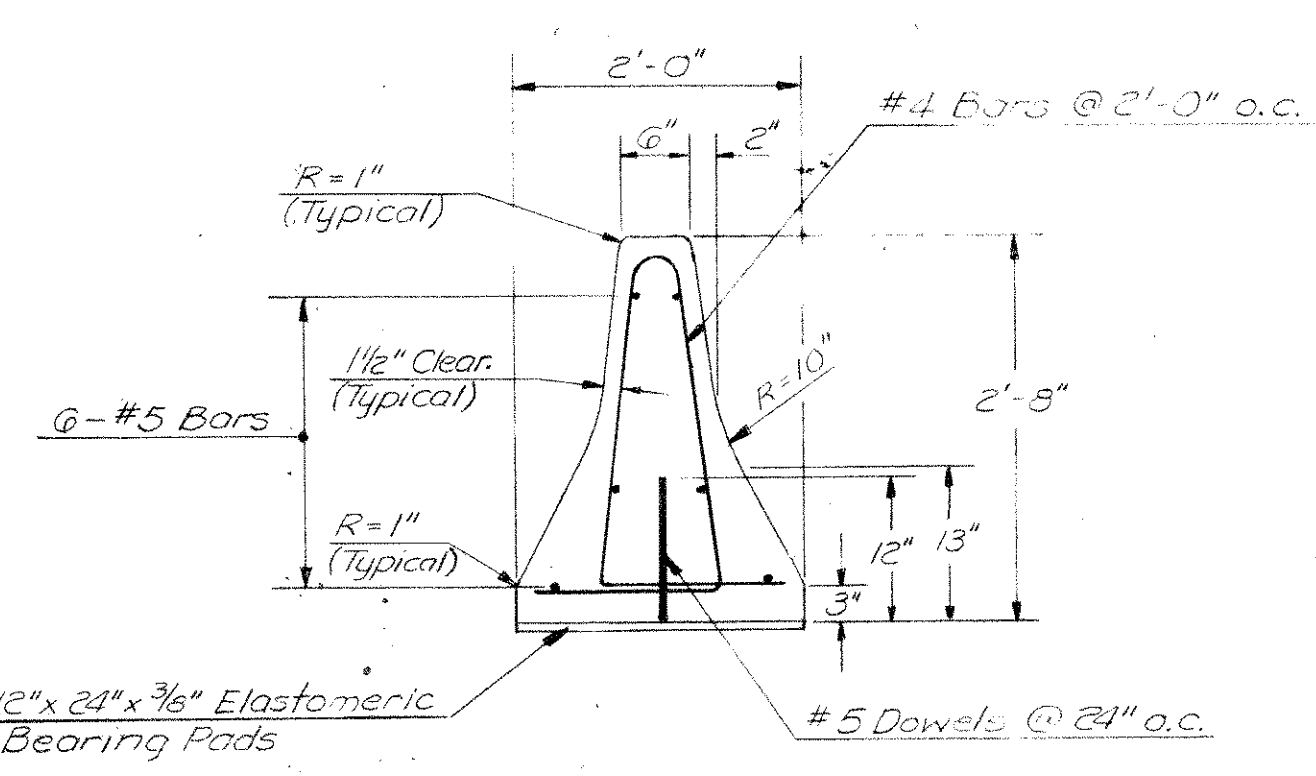


PLAN

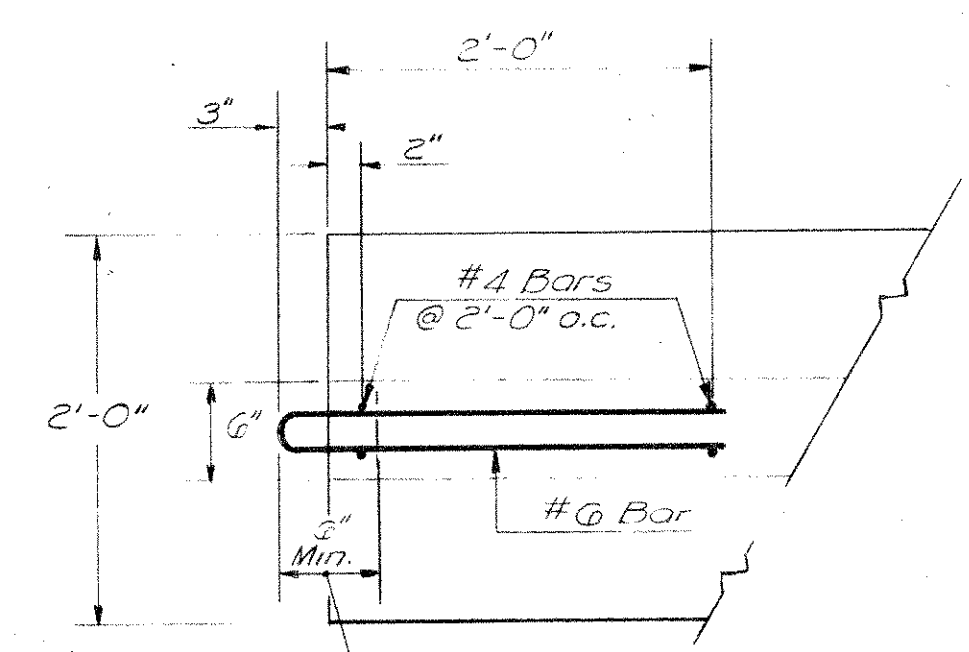


ELEVATION

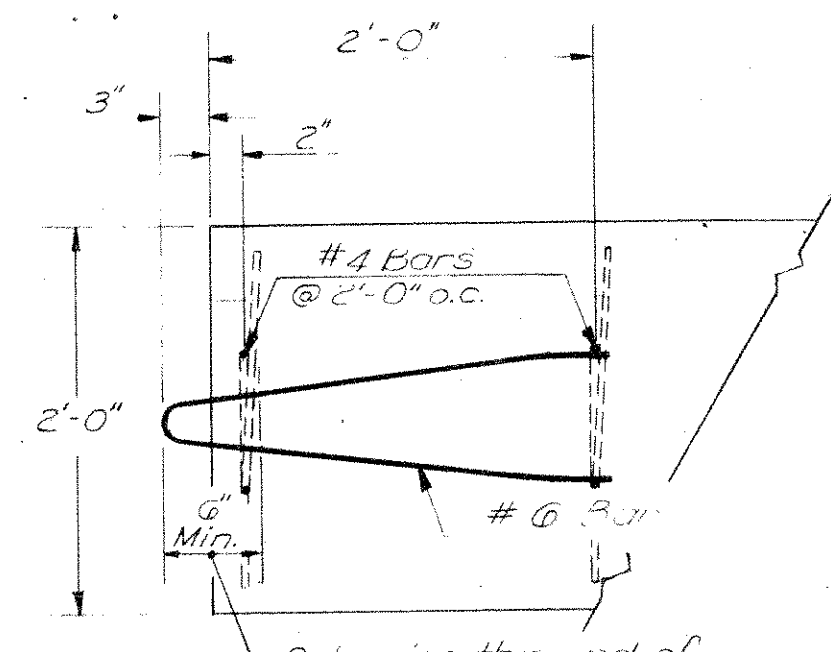
All reinforcing bars to have 2" Minimum Cover.



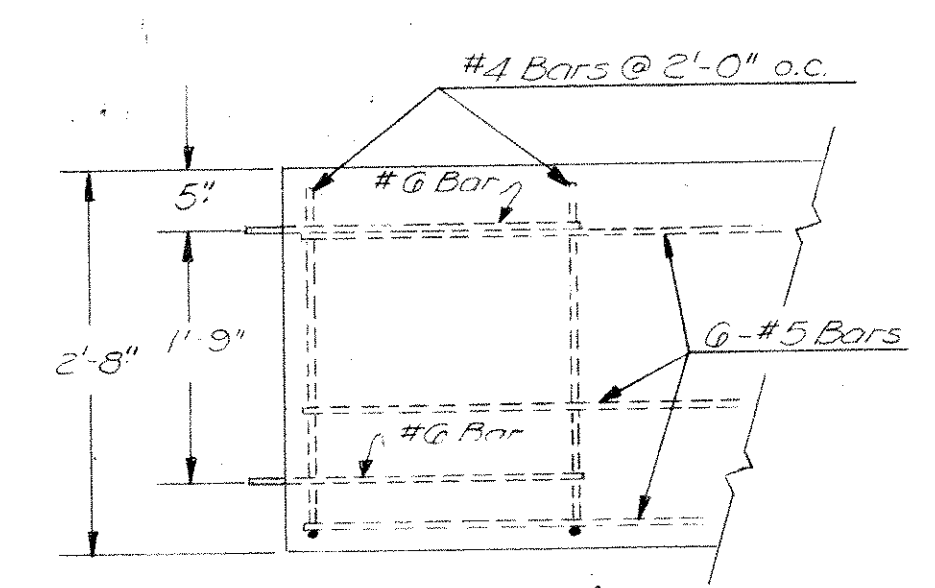
SECTION C-C



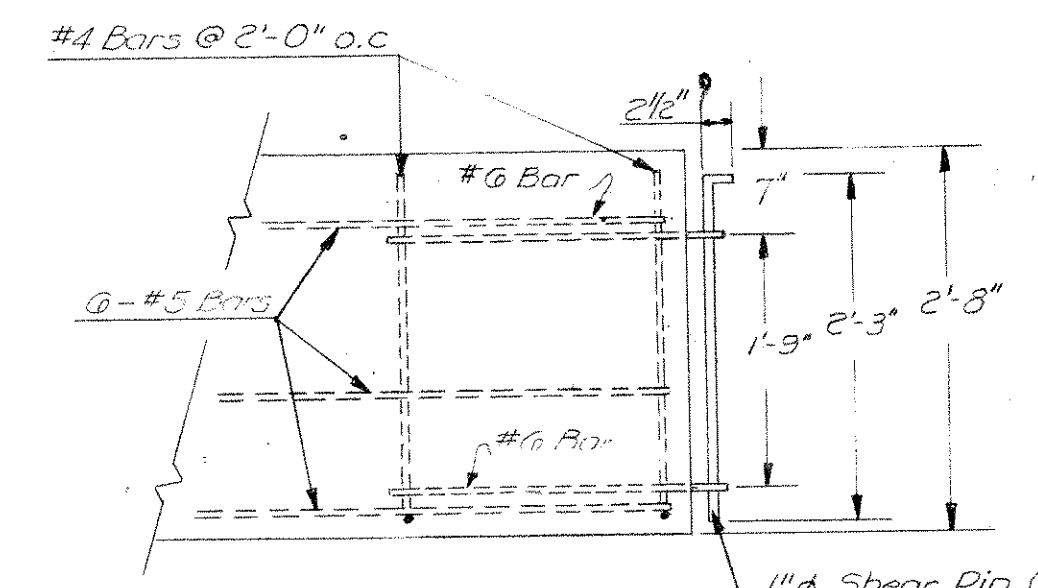
SECTION B-B



SECTION D-D



SECTION A-A



SECTION E-E

Note: Lifting devices to be supplied by fabricator subject to the approval of the Engineer.
 1" Shear Pin, Galvanized (A device is required to hold Shear Pin in place.)

CONNECTICUT
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

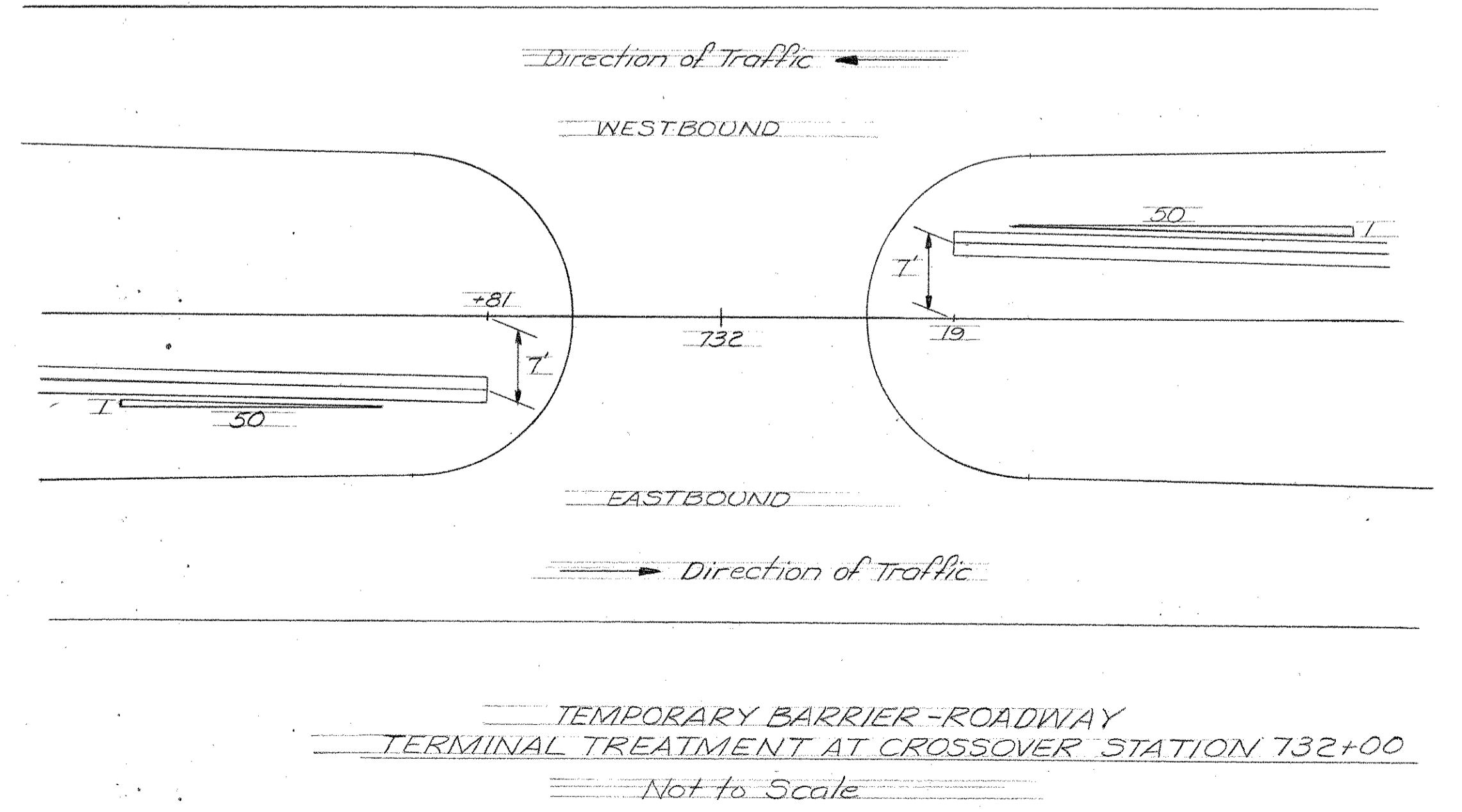
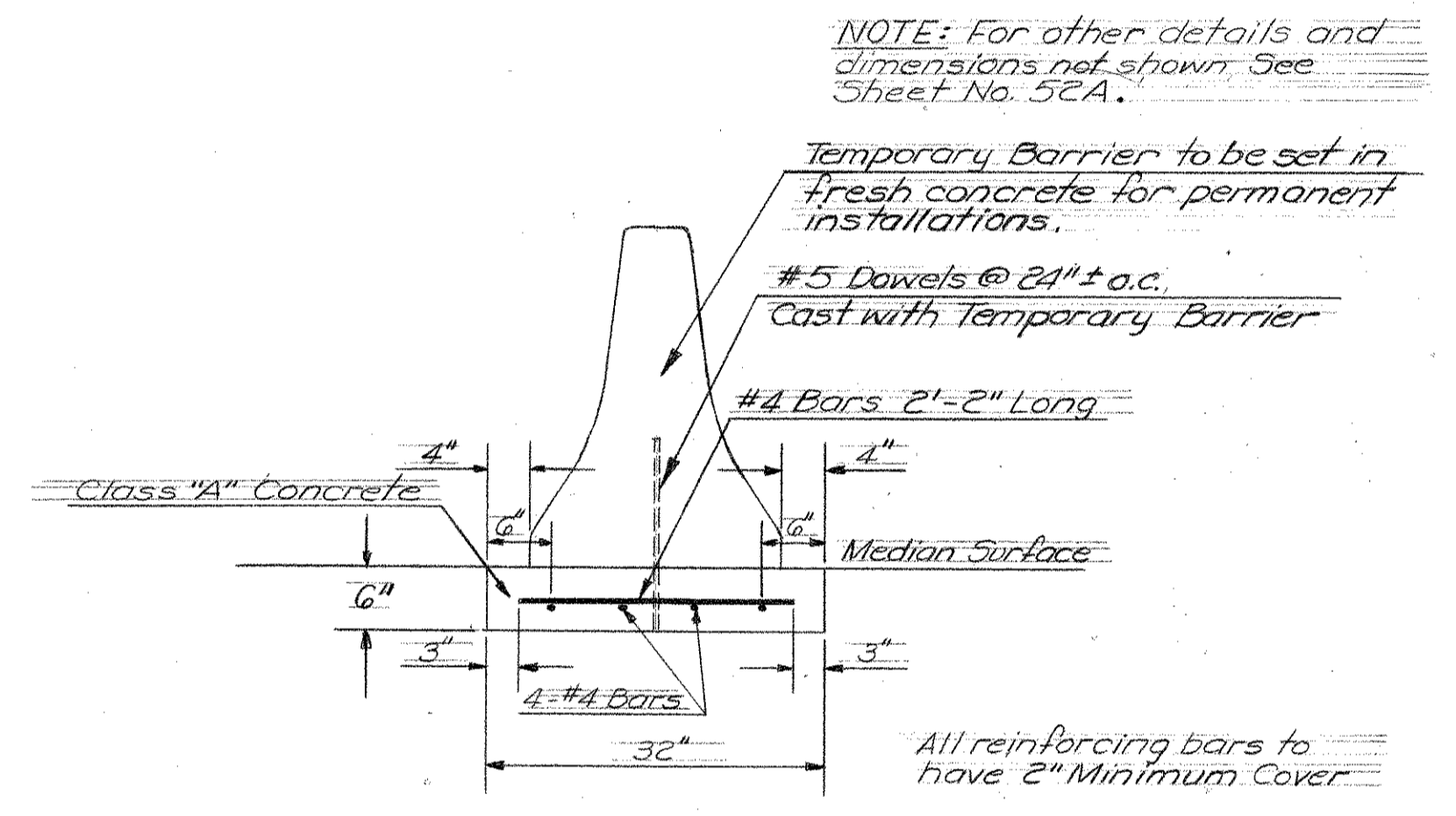
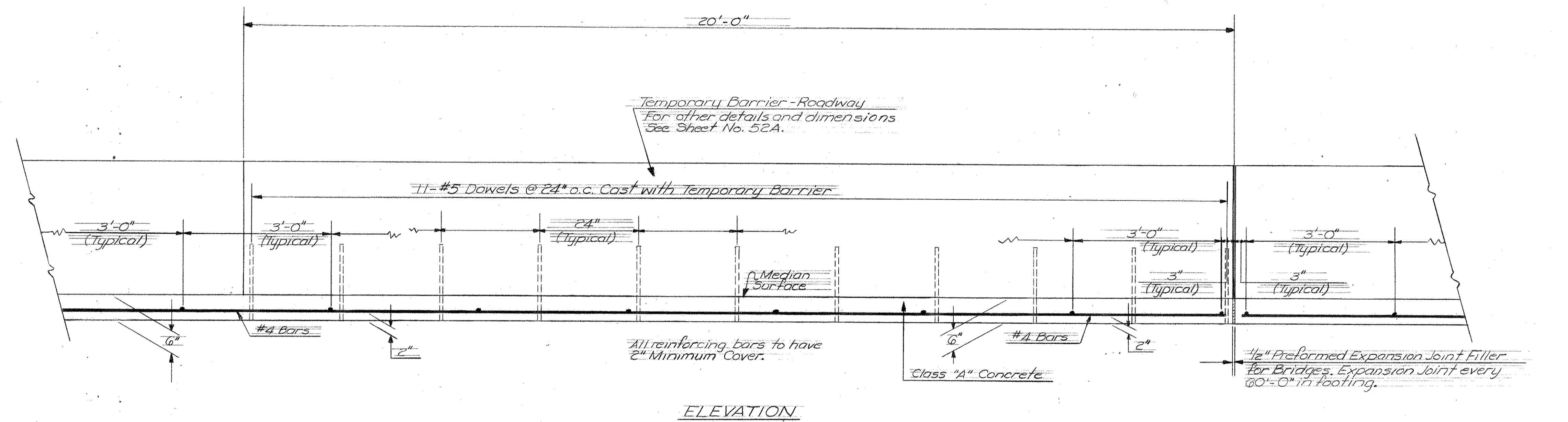
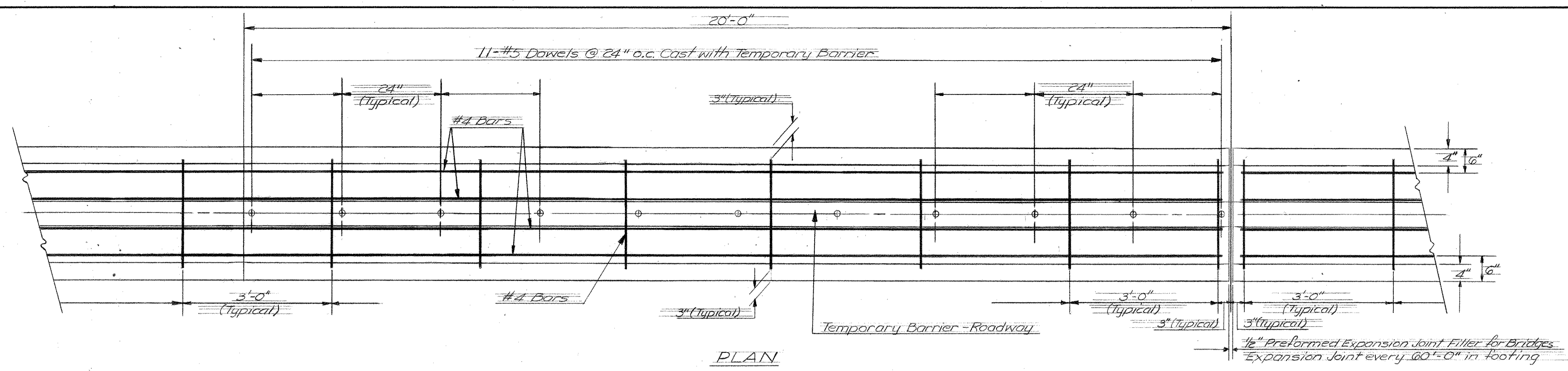
| | | | |
|-----------|------|---------------|--------------------|
| ENGINEER | | DATE | |
| APPROVED | | DESIGNER | |
| NO. | DATE | DESCRIPTION | CHECKER |
| REVISIONS | | STRUCTURE NO. | STRUCTURE SHEET OF |

M 467-01

142-110

RECONSTRUCTION OF ROUTE I-86
 Added For Construction Order July 1, 1977

NO REVISIONS SUBMITTED FOR THIS SHEET



BRUNING 44-131 23530

142-110

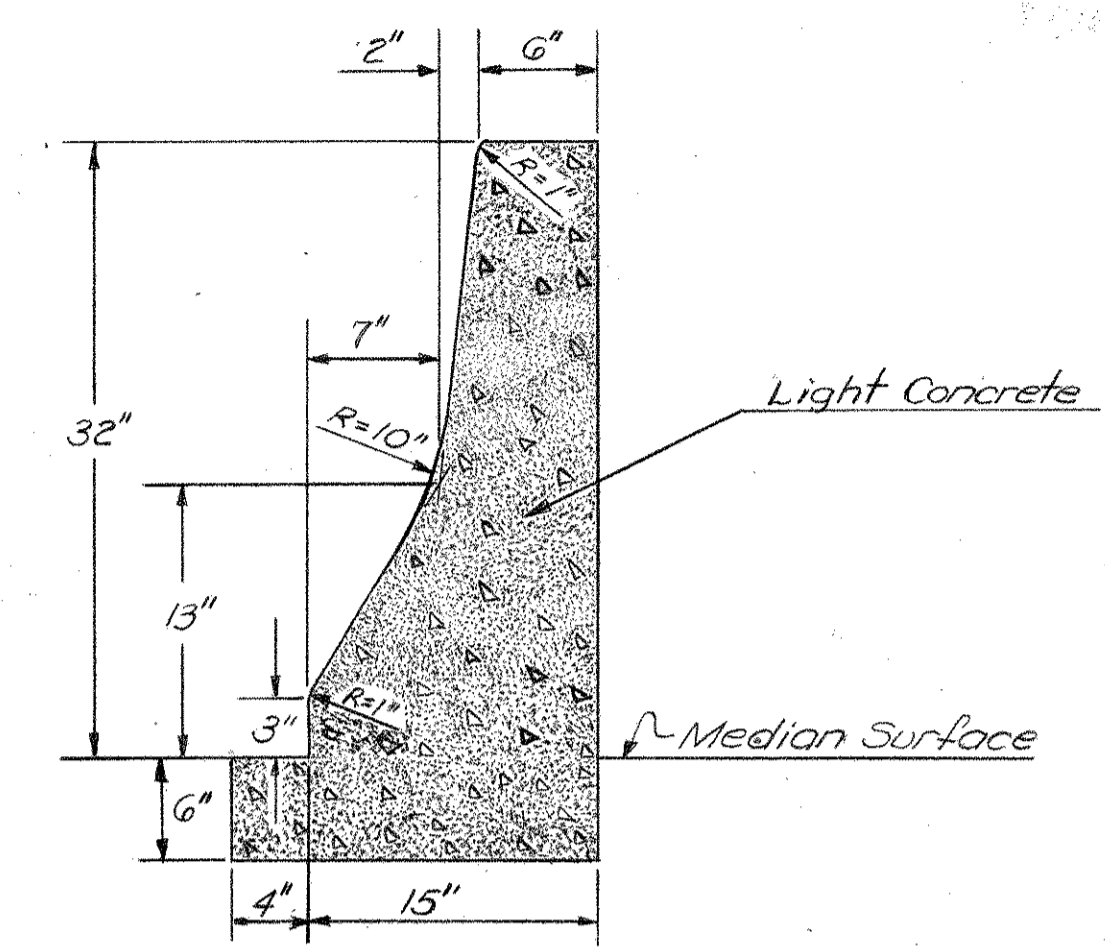
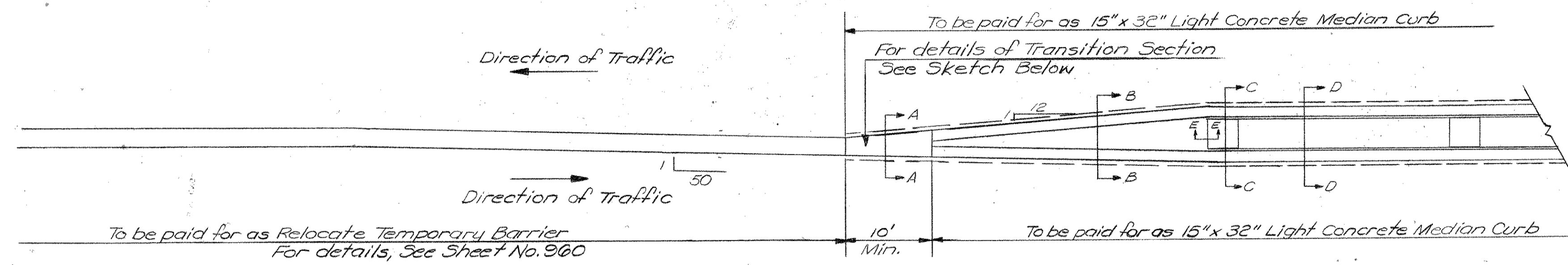
M467-01

960

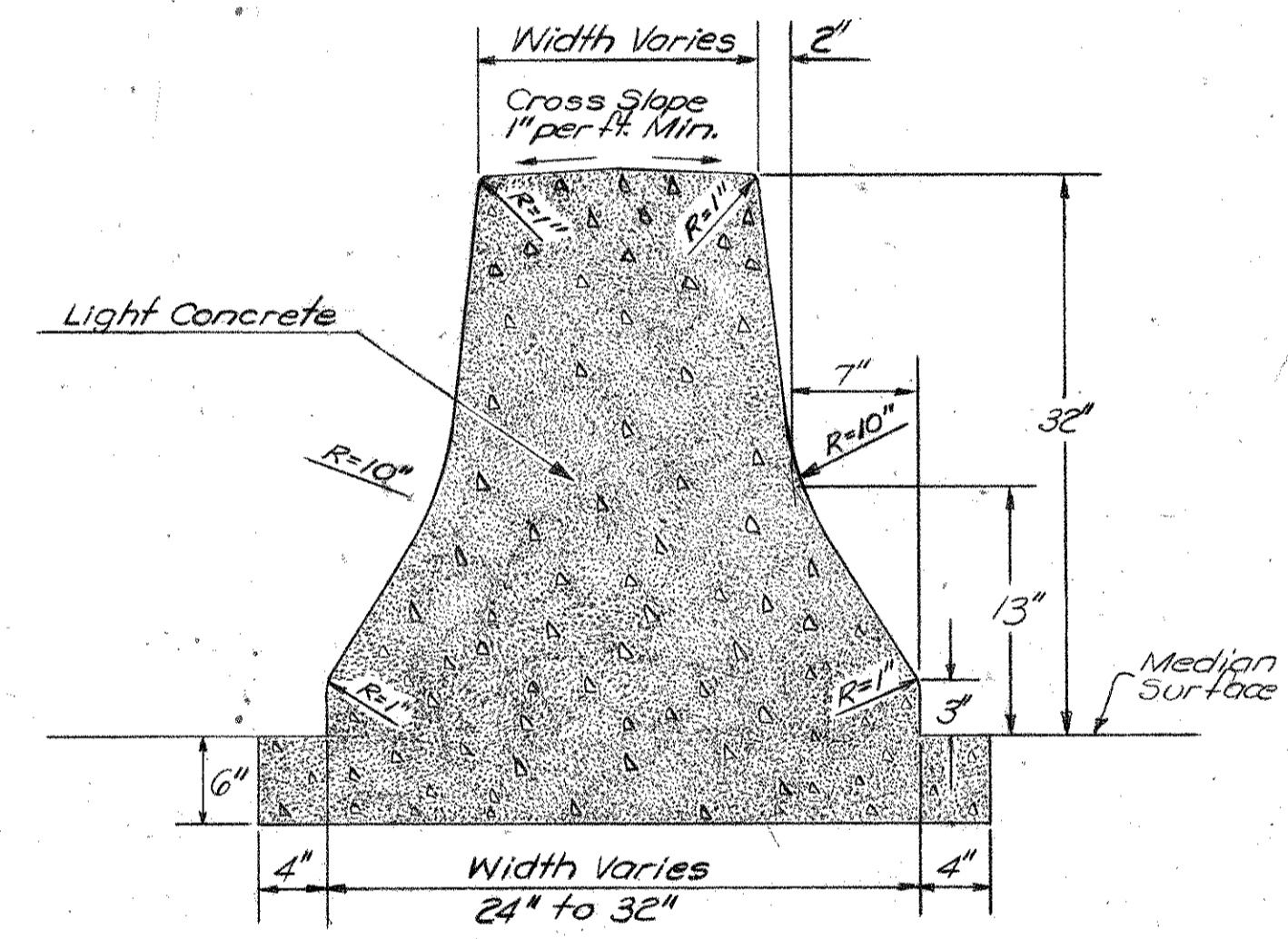
RECONSTRUCTION OF ROUTE I-86

Added For Construction Order July 1, 1977

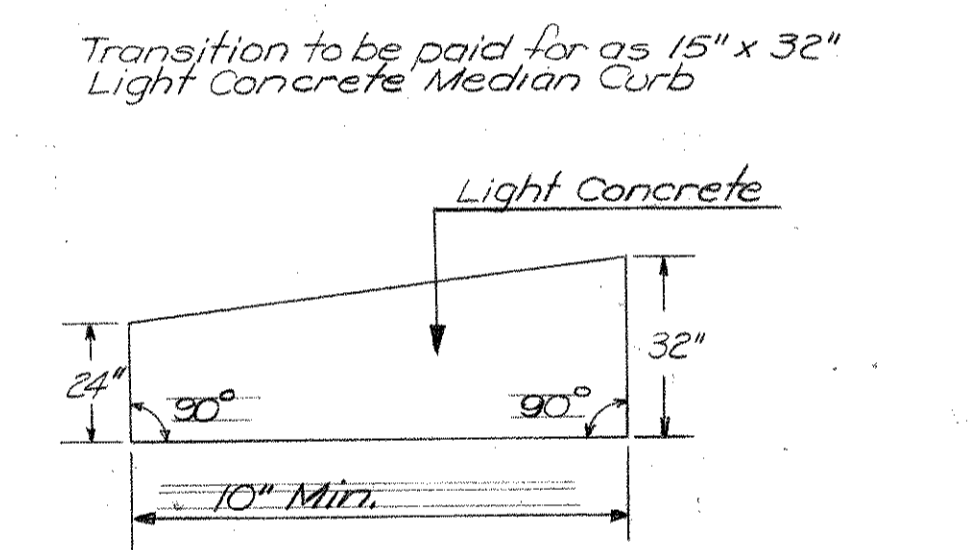
NO REVISIONS SUBMITTED FOR THIS SHEET



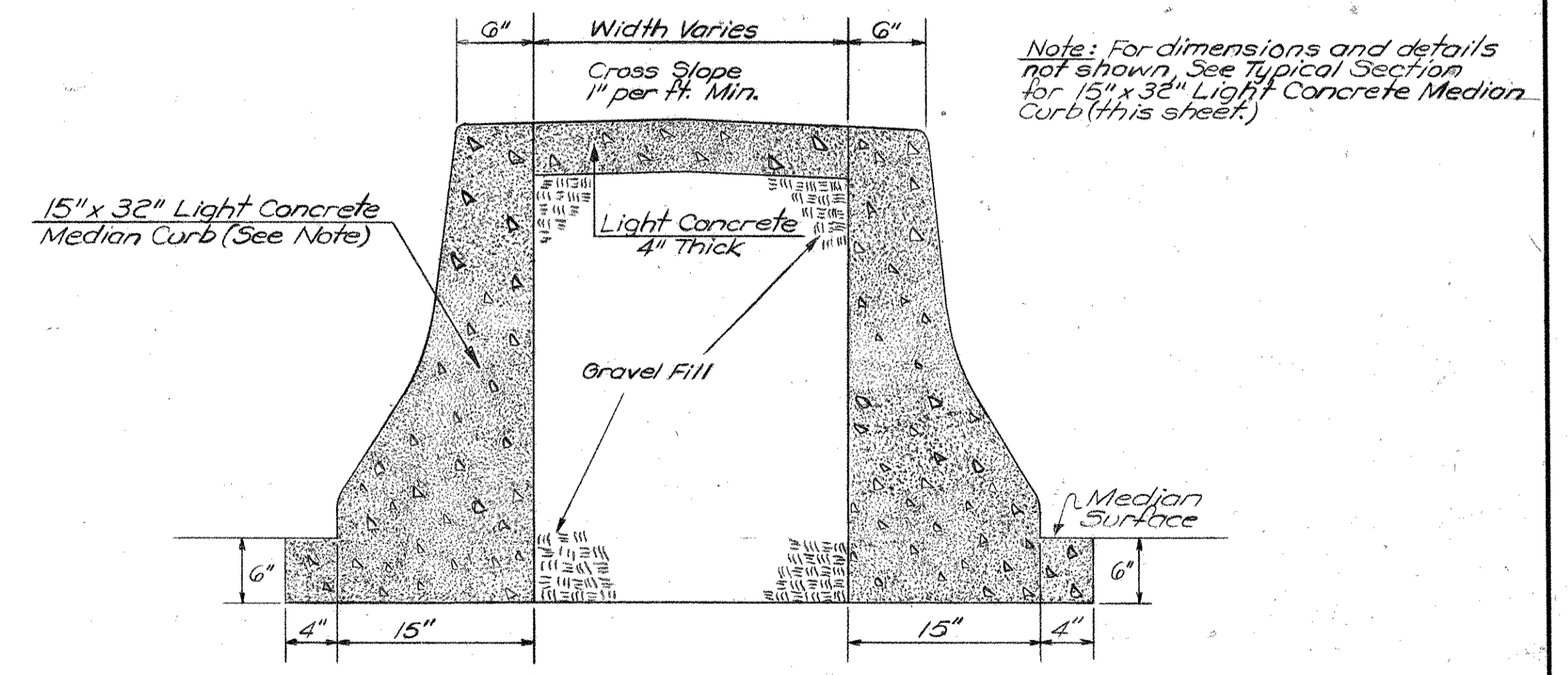
TYPICAL SECTION
15" x 32" LIGHT CONCRETE MEDIAN CURB



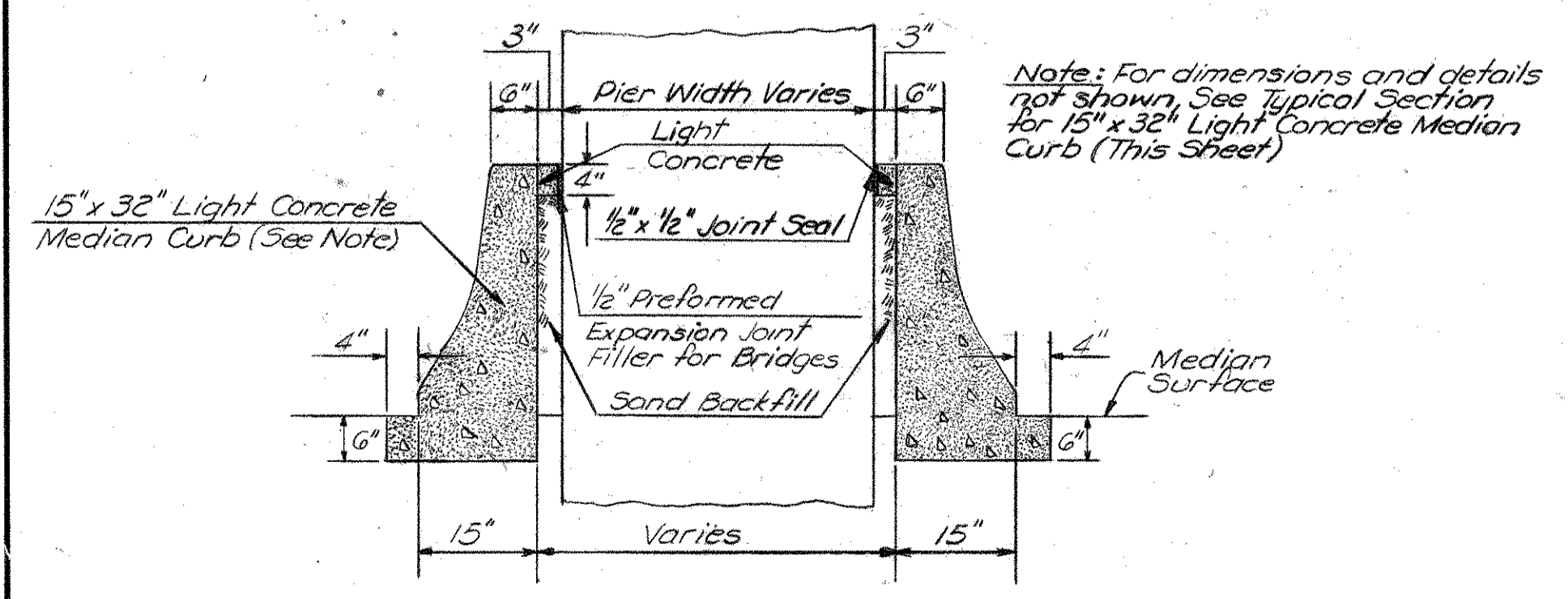
SECTION A-A



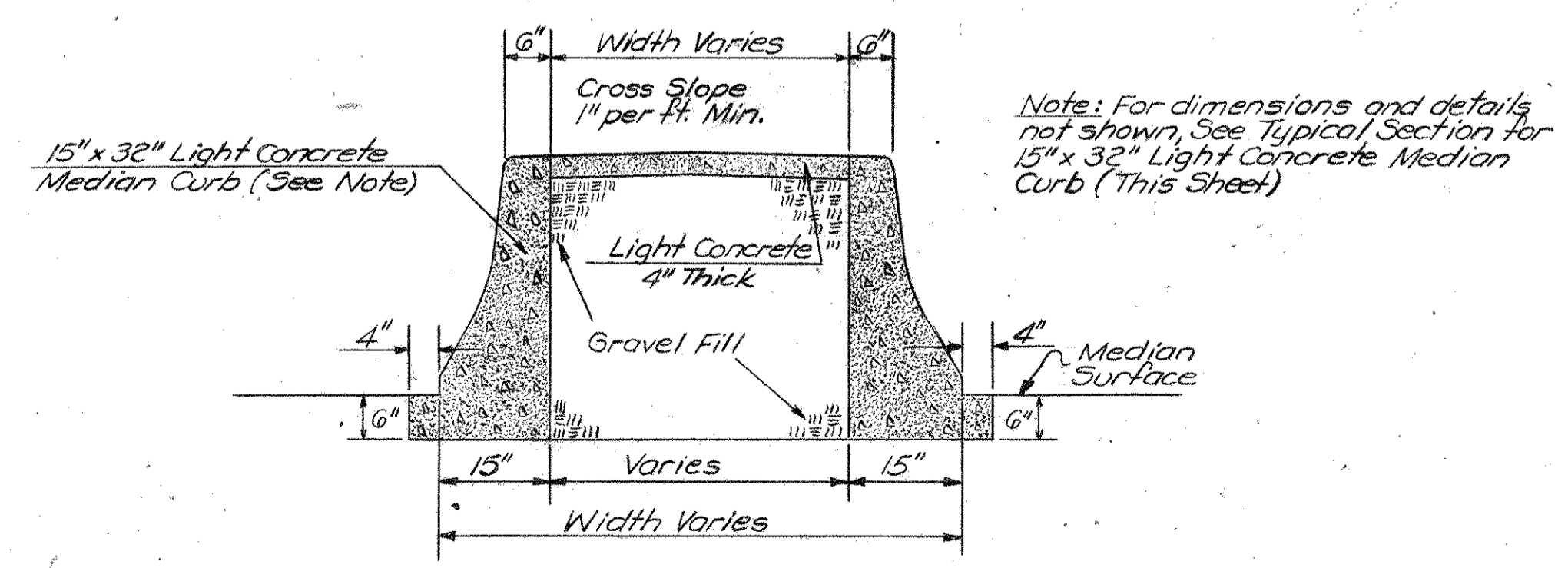
DETAILS OF TRANSITION SECTION
15" x 32" LIGHT CONCRETE MEDIAN CURB



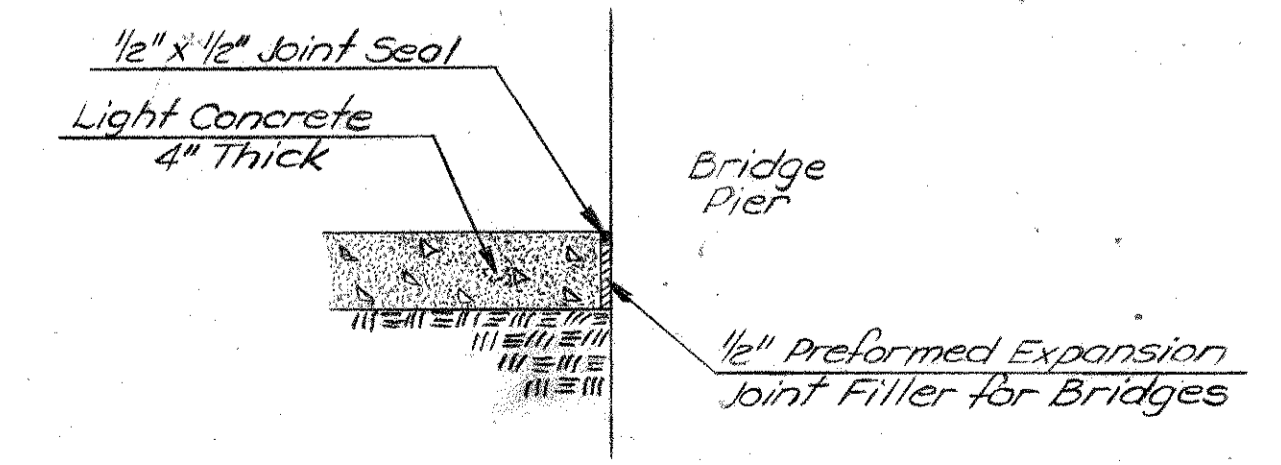
SECTION B-B



SECTION C-C
PIER SECTION



SECTION D-D
SECTION BETWEEN PIERS
AND AT VARIABLE WIDTHS



SECTION E-E