



City of Pawtucket, RI

***** **Addendum #3** *****

RFP # 14-084

Main Street Bridge Repairs

February 6, 2015

The attention of bidders submitting proposals for the above-referenced project is called to the following Addendum (the third issued to date) to the original Request for Proposals (RFP) document. The items set forth herein, whether of omission, addition, substitution or other change, are all to be included in, and form a part of the proposed Contract Documents for the work.

Inclusion of this Addendum must be acknowledged in the spaces provided in the document entitled "Request for Proposals RFP #14-084 Main Street Bridge Repairs". Failure to acknowledge any and all addenda in the above specified bid form may cause for rejection of the bids by the Owner on the grounds that it is not responsive.

This Addendum consists of three (3) pages and three (3) attachments. (25 pages total).

ADDENDUM ITEMS

1. QUESTIONS & ANSWERS

Questions received via E-mail

Q1: *Please clarify that all concrete is integrally colored concrete per specification 601.9901.*

A1: Yes, all concrete shall be integrally colored per specification 601.9901.

Q2: *6" x 9" granite curb at the bridge sidewalks. Due to the # anchor, can't install the curbing after the sidewalk is poured. On RIDOT projects, the curbing is used as a form since the curb depth and sidewalk are the same. In this case, the sidewalk is thicker than the curb. We recommend that you use 6" x 18" curbing.*

A2: It is acceptable for the contractor to use 6" X 18" curbing; however, #6 anchors will still be required.

Q3: *Will drilling into the face of the exposed granite be allowed?*

A3: Drilling into the face of the granite blocks will not be allowed, but drilling into the joints between the stones/blocks would be allowed provided the affected area was repaired. The contractor shall repair any damage to the granite blocks at no additional cost to the City.

Q4: *Are there original drawings for the construction of the existing sidewalk available? If so, where can they be obtained?*

Q5: *Is the slab connected to the I-beams via nelson studs or other connection method? If so, what connection was it with?*

Q6: *Is there reinforcing in the existing sidewalk slab?*

A4,5,6: Please see the attached plans of the existing bridge. We trust that most of the requested information is included in these plans, though ultimately, these plans represent the best available information on file with the City.

2. REVISION TO RFP DOCUMENT

Section: Appendix B (General Terms and Conditions of Purchase)

Item: 30. (Insurance)

Delete: Item in its entirety

Insert: INSURANCE

All construction contractors, independent tradesmen, or firms providing any type of maintenance, repair, or other type of service to be performed on City of Pawtucket premises, buildings, or grounds are required to purchase and maintain coverage with a company or companies licensed to do business in the state as follows:

- a. Comprehensive General Liability Insurance
Combined Single Limit not less than \$1,000,000 each occurrence for bodily injury and property damage.
 - Independent Contractors;
 - Contractual - including construction hold harmless and other types of contracts or agreements in effect for insured operations;
 - Products and Completed Operations;
 - Personal Injury (with employee exclusion deleted)
- b. Automobile Liability Insurance

Combined Single Limit not less than \$1,000,000 each occurrence for bodily Injury and property damage including non-owned and/or hired vehicle coverage.

OR

Bodily Injury, per person, \$500,000/ Bodily Injury, \$1,000,000 per accident/ Property Damage, \$500,000 per accident including non-owned and/or hired vehicle coverage.

- c. Workers' Compensation Insurance
As required by the General Laws of Rhode Island.
- Employers liability \$500,000

The City of Pawtucket shall be named as an additional insured on the vendor's Comprehensive General Liability Policy and Automobile Liability Policy.

The City of Pawtucket's Purchasing Agent reserves the right to consider and accept alternate forms and plans of insurance or to require additional or more extensive coverage for any individual requirement. Successful bidders shall provide certificates of coverage, reflecting the City of Pawtucket as an additional insured, to the City of Pawtucket Purchasing Office, forty-eight (48) hours prior to the commencement of work, as a condition of award. Failure to comply with this provision shall result in rejection of the offeror's bid.



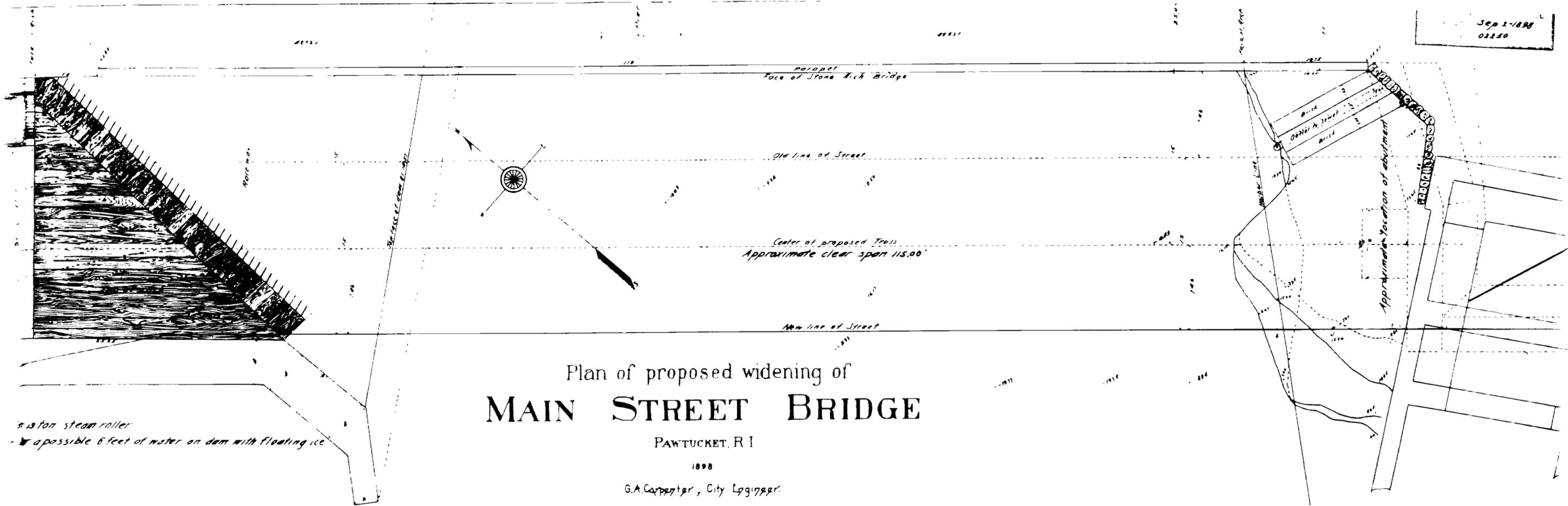
David Clemente
Purchasing Agent

Attachment 1 – 1898 Record Plan of Main Street Bridge

Attachment 2 – 1899 Record Plans of Main Street Bridge

Attachment 3 – 1967 Record Plans of Main Street Bridge

Sep 2-1898
02250



Plan of proposed widening of
MAIN STREET BRIDGE

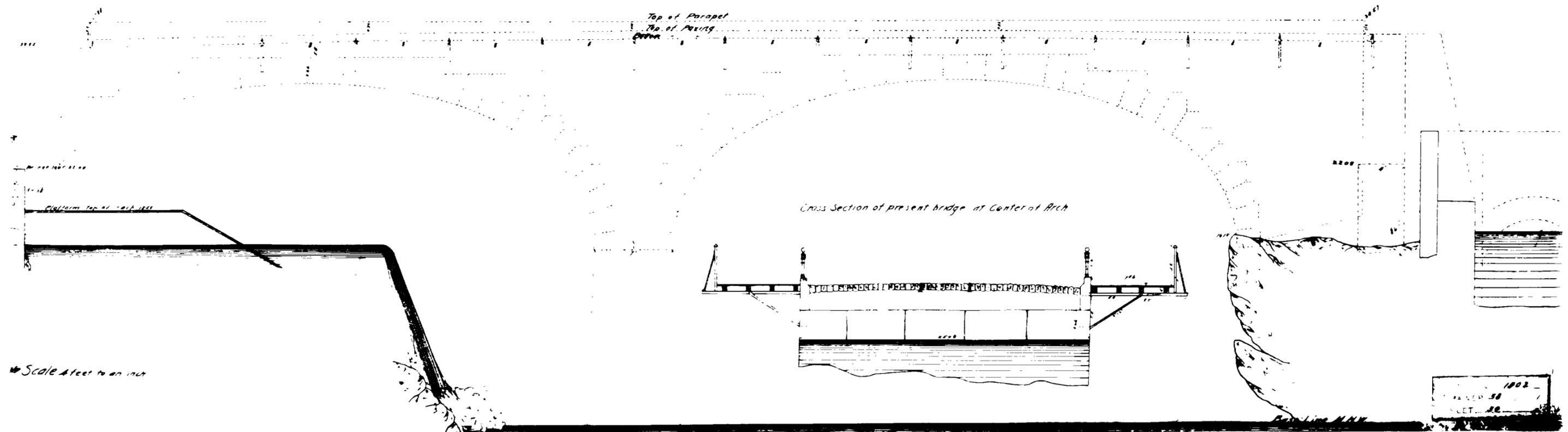
PAWTUCKET, R. I.

1898

G.A. Carpenter, City Engineer.

15 ton steam roller
 possible 6 feet of water on dam with floating ice

Top of Parapet
 No. of Pavings



Cross Section of present bridge at Center of Arch

Scale 4 feet to an inch

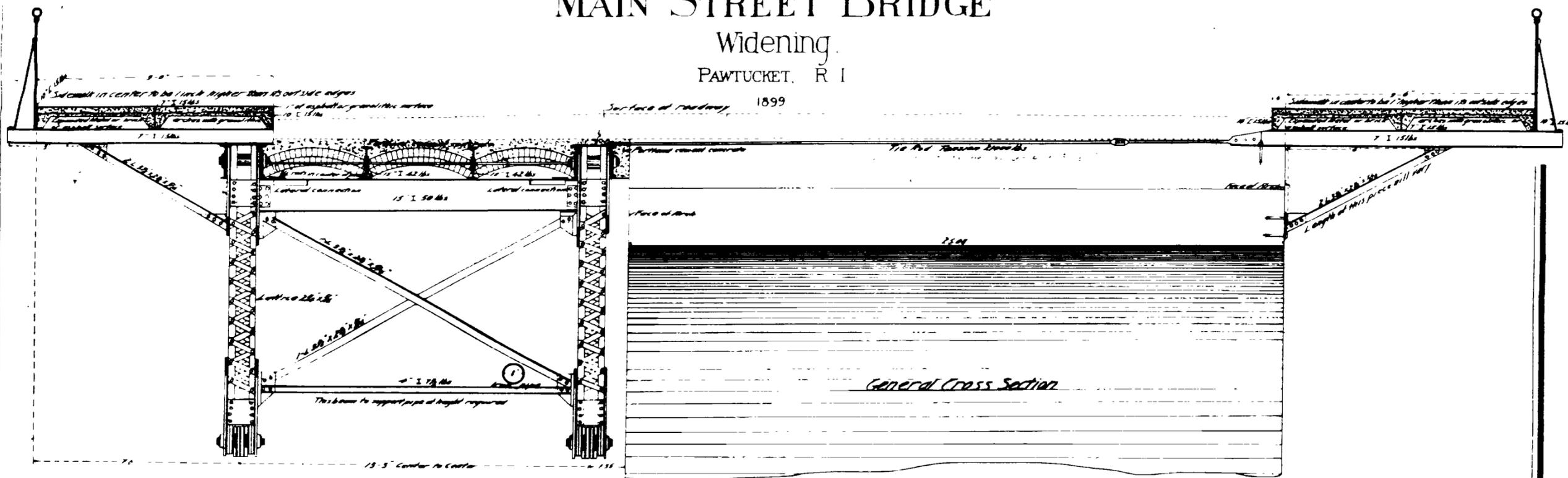
1898
 SHEET 58
 SHEET 22

Apr 11 1899
02801

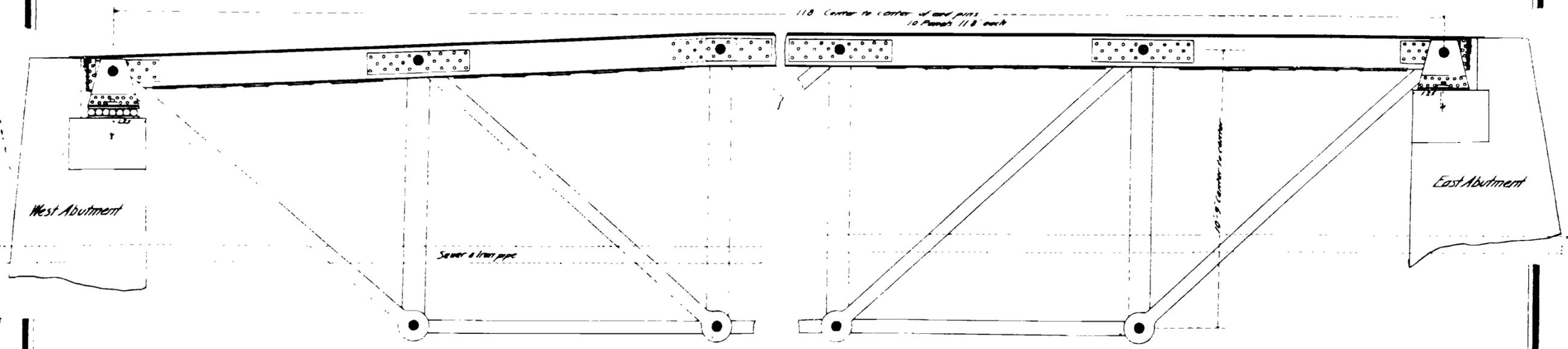
MAIN STREET BRIDGE

Widening.
PAWTUCKET, R. I.

1899



General Cross Section



Elevation of end panels.

Ver and Hor Scale 1/4 inch = 1 foot

G.A. Carpenter, City Engineer.

MAIN STREET BRIDGE

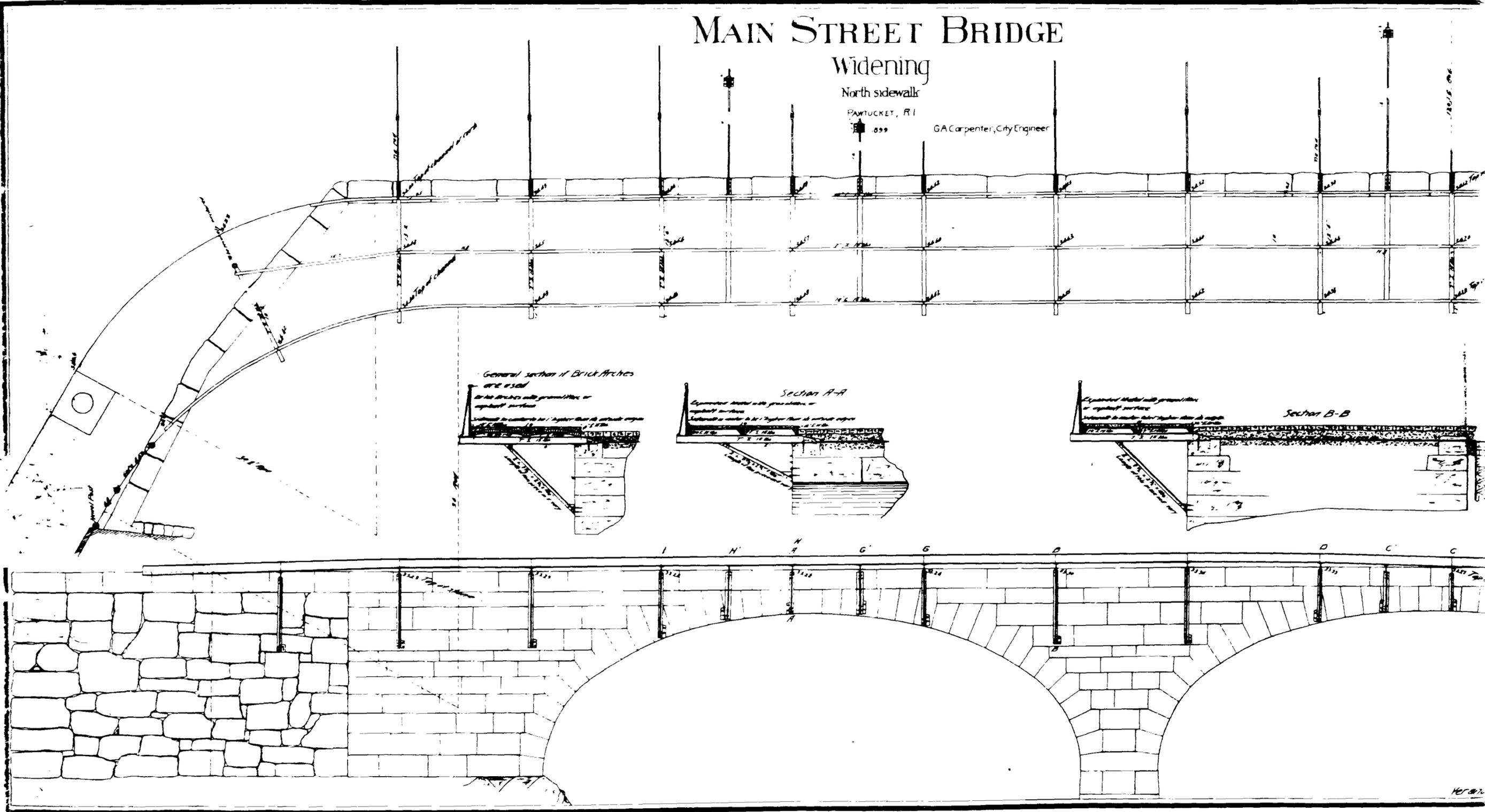
Widening

North sidewalk

PAWTUCKET, R.I.

899

G.A. Carpenter, City Engineer



April 11-1898
02802

MAIN STREET BRIDGE

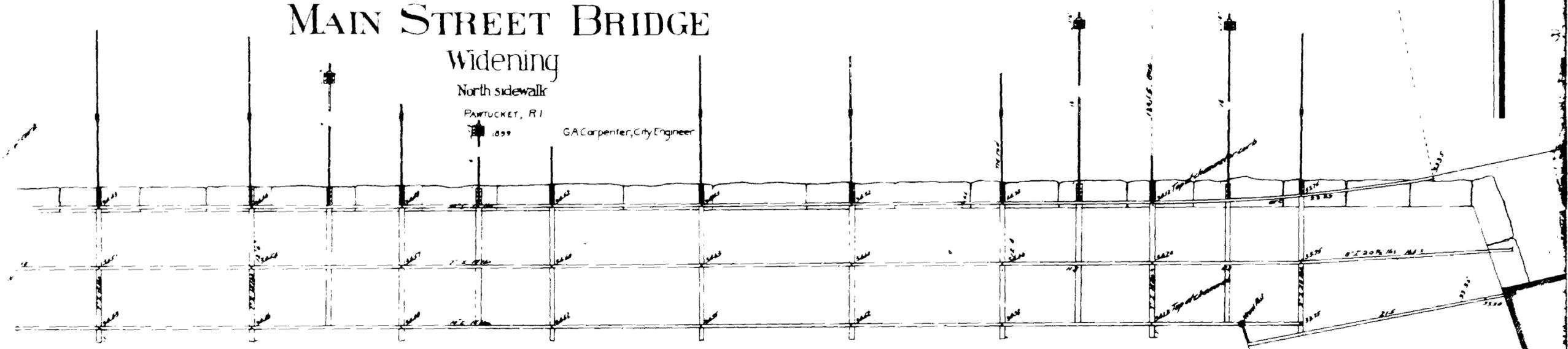
Widening

North sidewalk

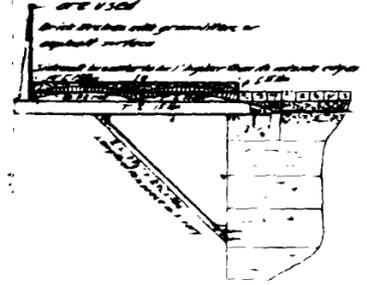
PAWTUCKET, R.I.

1899

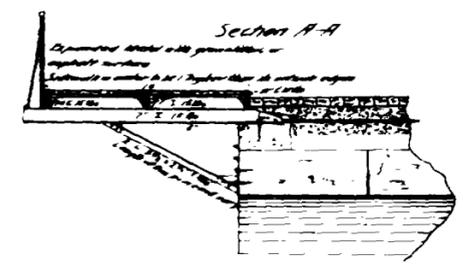
G.A. Carpenter, City Engineer



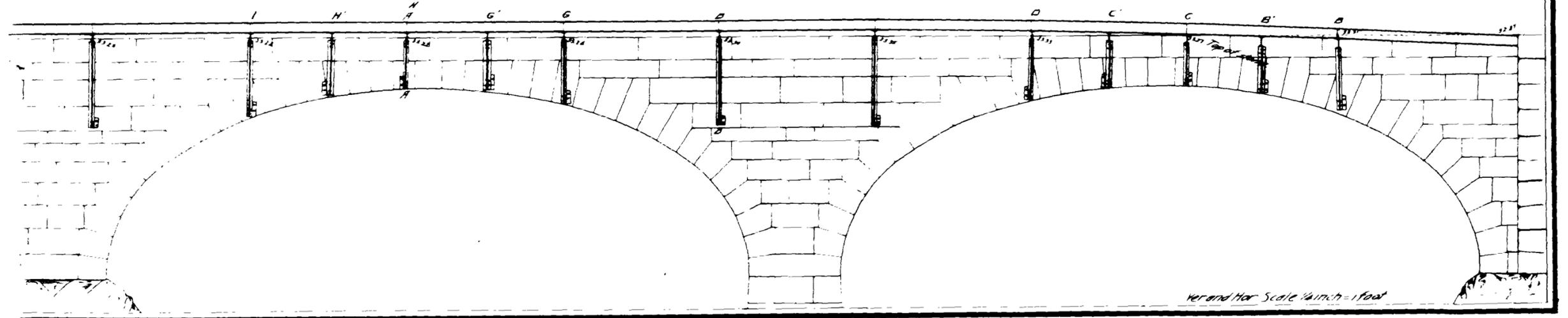
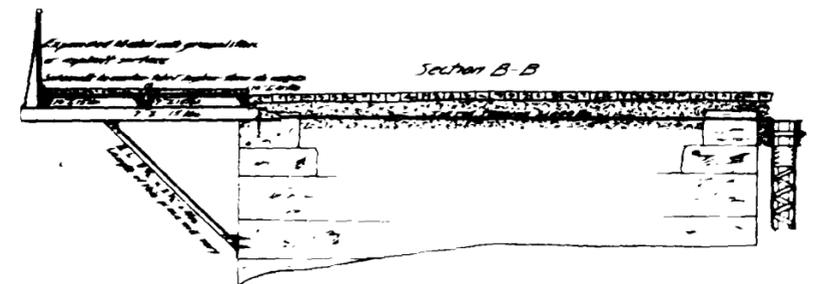
General section if Brick Arches are used



Section A-A



Section B-B



Vertical and Horizontal Scale 1/4 inch = 1 foot

240
38
35

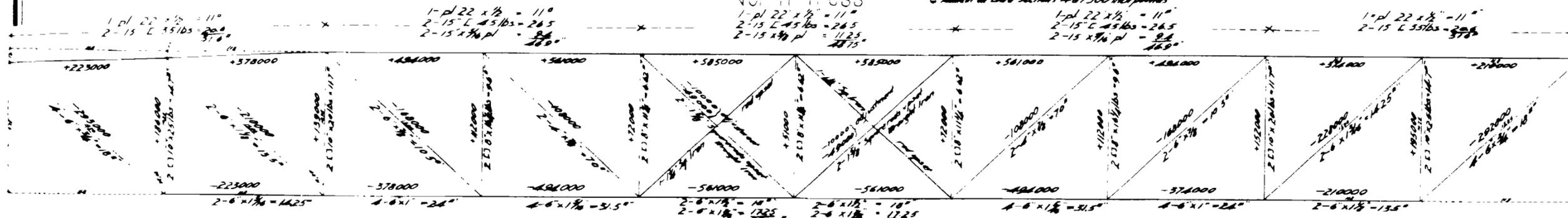
MAIN STREET BRIDGE WIDENING.

G.A. Carpenter, City Engineer

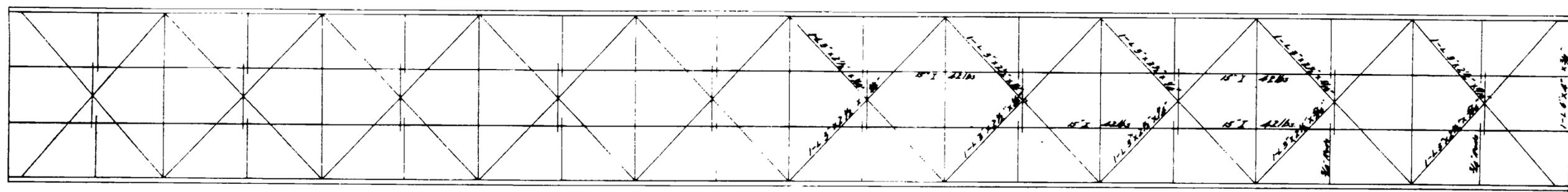
Pawtucket, R.I.

North Truss

C. Material on chord sections 487500 each pin joint



Top Lateral bracing



South Truss

- Strain Sheet -

Length of Truss 18 ft center to center of end pins
Depth 10.75 ft

Scale 1/4" = 1 foot

April 11, 1899
02804

MAIN STREET BRIDGE

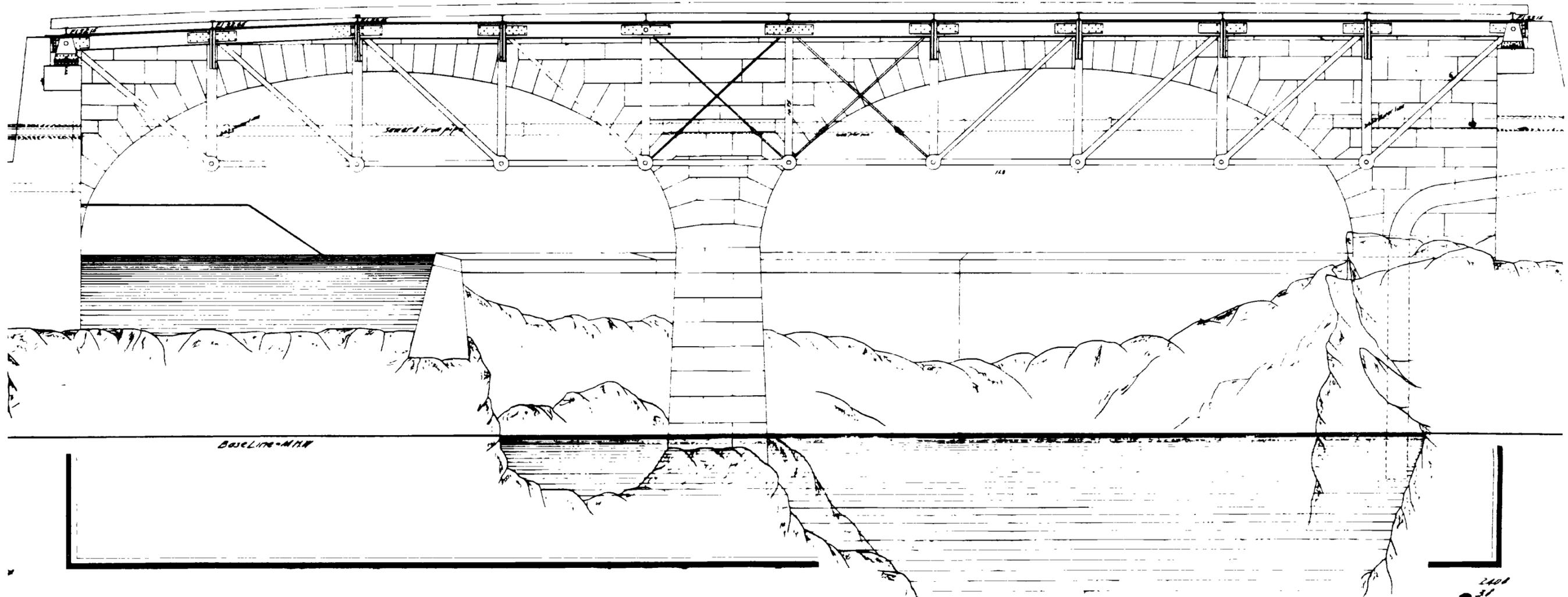
Widening
PAWTUCKET, R. I.

1899

Vertical Scale 1/4" = 1 foot

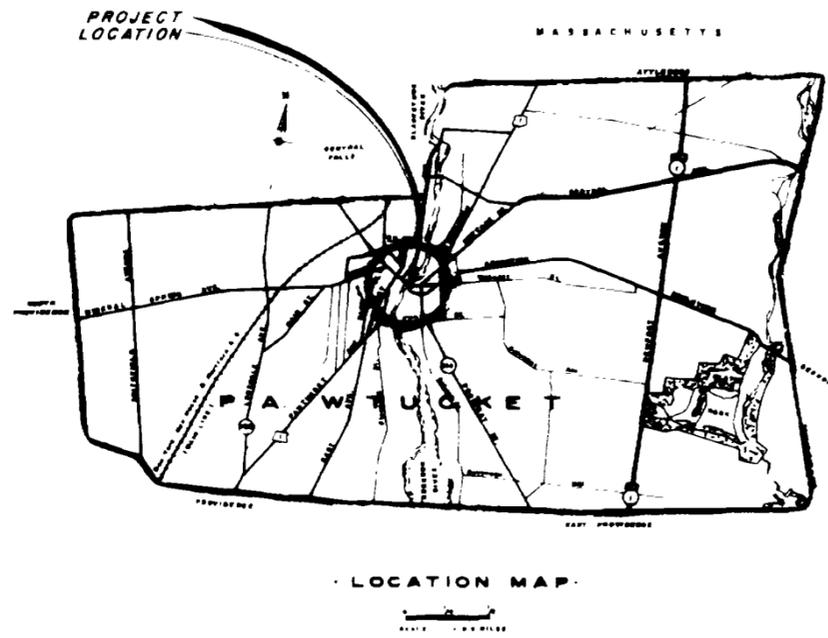
C. A. Carpenter, City Engineer

— Elevation —



2401
31

CITY OF PAWTUCKET RHODE ISLAND MAIN STREET BRIDGE WIDENING



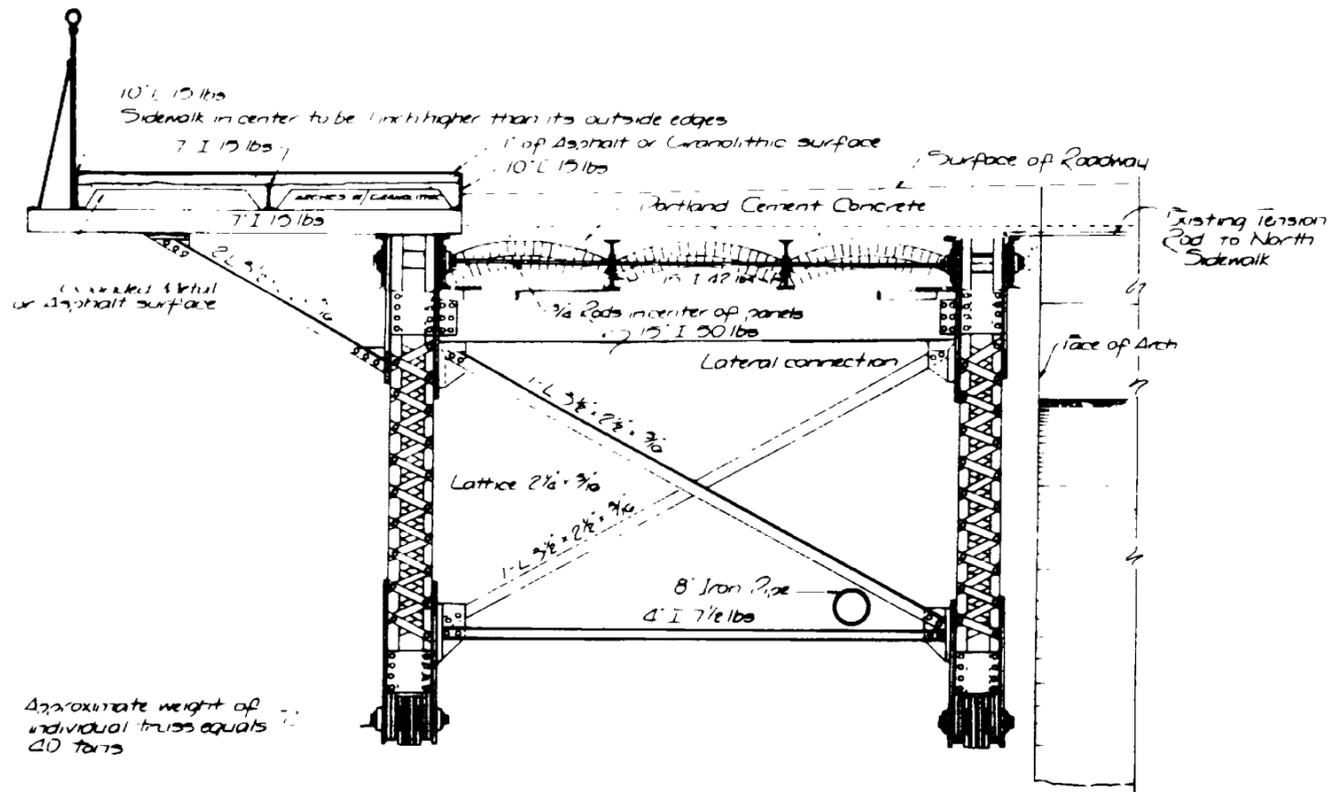
INDEX OF DRAWINGS

NO.	TITLE
1	TITLE SHEET
2	DETAILS FOR TRUSS REMOVAL AND PRELIMINARY WORK
3	TYPICAL SECTIONS
4	LOCATION & GRADE PLANS
5	SUBSTRUCTURE LOCATION PLAN
6	STEEL DETAILS & FRAMING PLAN
7	DECK REINFORCING & CONTOUR PLANS
8	WEST ABUTMENT
9	EAST ABUTMENT
10	EAST WINGWALL & RAILING DETAILS
11	BEARING & JOINT DETAILS
12	MISCELLANEOUS DETAILS
13	DECK JOINT DETAILS
14	ALTERATIONS TO NORTH SIDEWALK
15	REINFORCING SCHEDULE
16	BORING LOGS

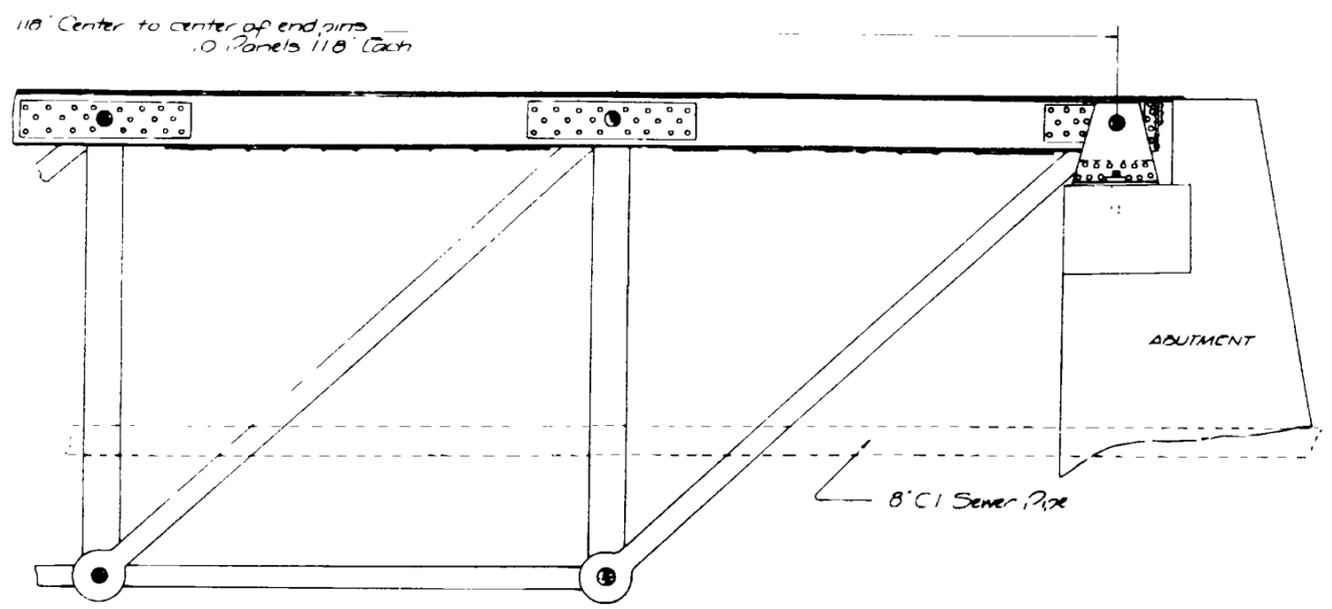
WATERMAN ENGINEERING COMPANY
EAST PROVIDENCE, RHODE ISLAND

1967

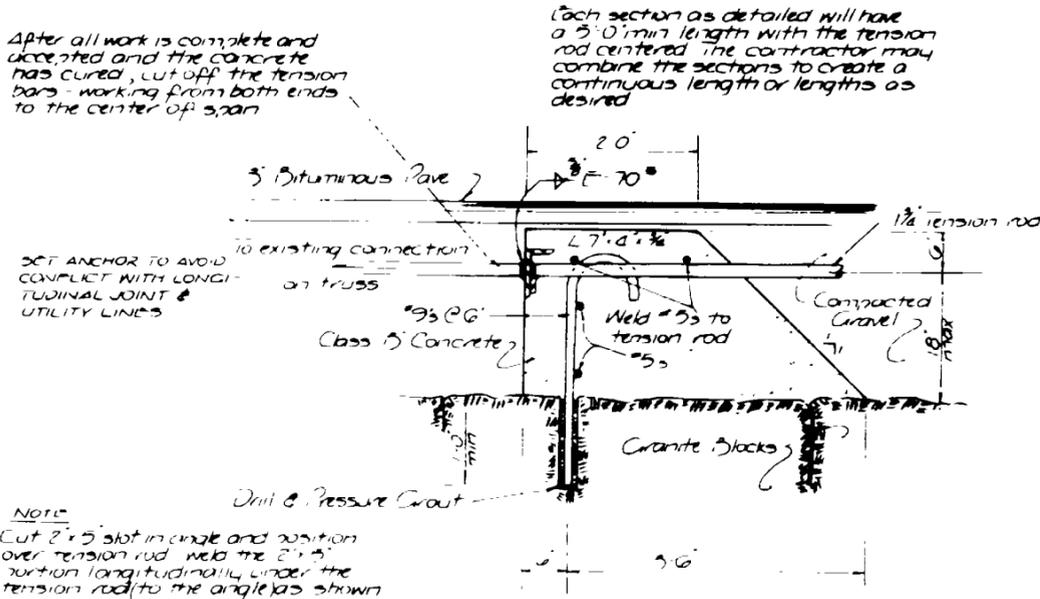
Wayne M. Stebbins 9/21/67
Eugene J. Jeffers 9/21/67



TRANSVERSE SECTION



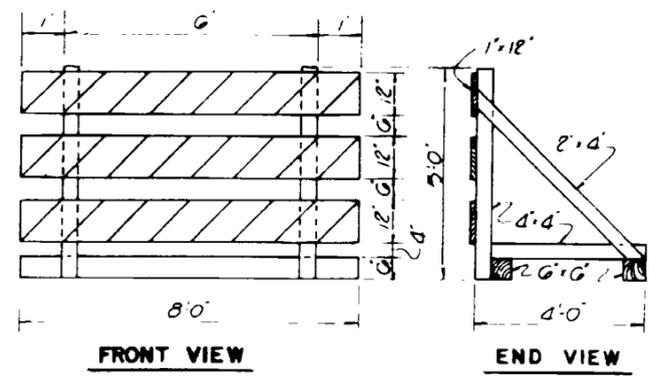
TYPICAL PANEL LAYOUT



**TENSION ROD ANCHOR
DETAIL**

Note
Cut 2 x 5 slot in angle and position
over tension rod, weld the 2 x 5
portion longitudinally under the
tension rod to the angle as shown

The Contractor shall install the anchors, as
shown on page commencing work on removal
of the truss
• Manual Shielded metal arc weld - continuous



PORTABLE BARRICADE

NOTE
1 x 12 x 8-0' Barrier Boards to be reflectorized
with silver & black alternate stripes. Paint the
remainder of the barricade white.

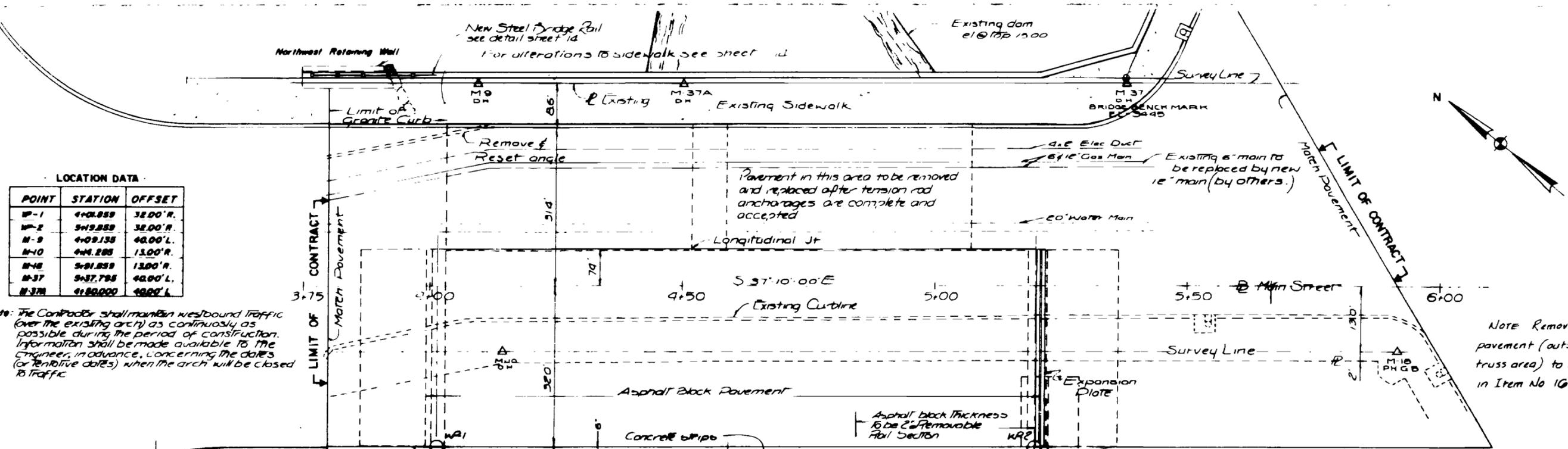


WATERMAN ENGINEERING COMPANY
Consulting Engineers
EAST PROVIDENCE RHODE ISLAND

DATE: _____ SHEET 2 OF 16
SCALE AS SHOWN

REVISIONS		
NO.	DATE	BY
1	12/15/27	JFL

RHODE ISLAND CITY OF PAWTUCKET ENGINEERING DEPARTMENT MAIN STREET BRIDGE WIDENING	
DETAILS FOR TRUSS REMOVAL AND PRELIMINARY WORK	
APPROVED _____ SUPERVISOR CITY ENGINEER	APPROVED _____ CHIEF ENGINEER



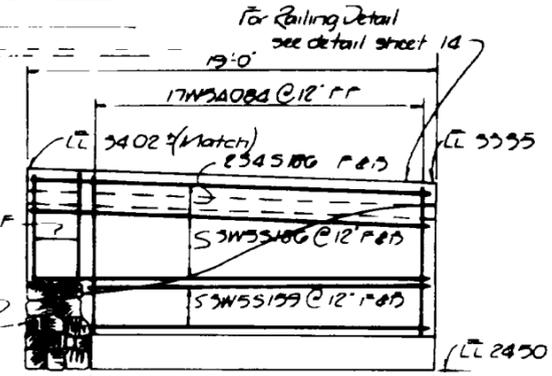
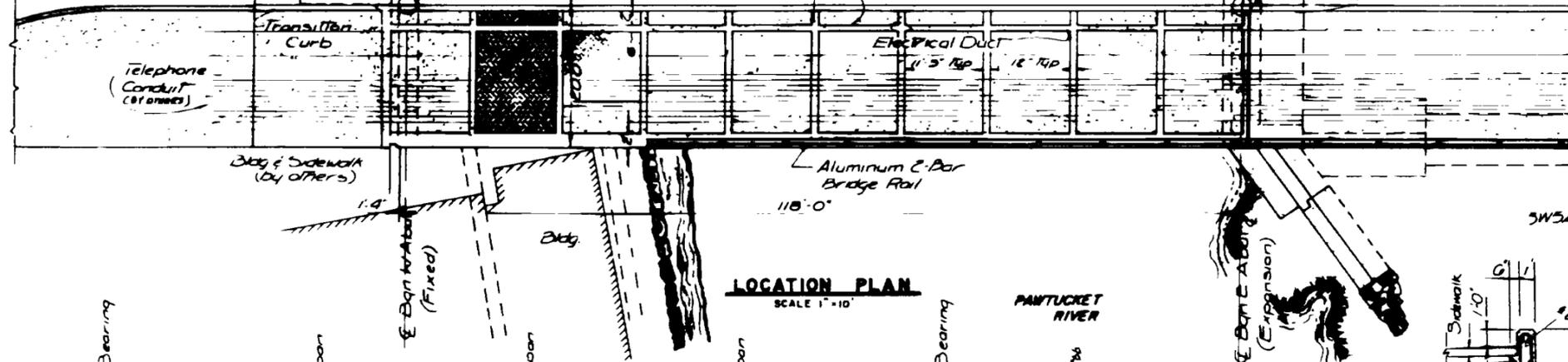
LOCATION DATA

POINT	STATION	OFFSET
M-1	4+01.859	32.00' R.
M-2	5+49.859	32.00' R.
M-3	4+09.135	40.00' L.
M-4	4+4.288	13.00' R.
M-5	5+01.859	13.00' R.
M-37	5+37.785	40.00' L.
M-37A	4+80.000	40.00' L.

Note: The Contractor shall maintain westbound traffic (over the existing arch) as continuously as possible during the period of construction. Information shall be made available to the Engineer, in advance, concerning the dates (or tentative dates) when the arch will be closed to traffic.

Note: For specifications of asphalt block pavement see Section 20.

Note: Removal of existing pavement (outside of the truss area) to be included in Item No 16.



GRADE PLAN

Station	0+00	0+20	0+40	0+60	0+80	1+00	1+20	1+40	1+60	1+80	2+00					
0+00	32.93	32.17	32.96	32.20	32.89	32.15	32.81	32.06	32.75	31.97	32.65	31.87	32.45	31.69	32.21	31.45
0+20	33.61	33.05	33.60	33.04	33.58	33.00	33.63	33.07	33.49	32.93	33.65	33.07	33.42	32.86	33.58	32.99
0+40	34.13	33.65	34.12	33.62	34.08	33.55	34.06	33.55	34.01	33.49	34.05	33.48	33.98	33.45	34.05	33.45
0+60	34.26	33.69	34.26	33.70	34.25	33.67	34.23	33.67	34.19	33.68	34.14	33.67	34.08	33.67	34.05	33.64
0+80	34.07	33.81	34.08	33.82	34.04	33.68	34.00	33.82	33.96	33.60	34.00	33.78	33.98	33.68	34.05	33.68
1+00	34.07	33.81	34.08	33.82	34.04	33.68	34.00	33.82	33.96	33.60	34.00	33.78	33.98	33.68	34.05	33.68
1+20	34.07	33.81	34.08	33.82	34.04	33.68	34.00	33.82	33.96	33.60	34.00	33.78	33.98	33.68	34.05	33.68
1+40	34.07	33.81	34.08	33.82	34.04	33.68	34.00	33.82	33.96	33.60	34.00	33.78	33.98	33.68	34.05	33.68
1+60	34.07	33.81	34.08	33.82	34.04	33.68	34.00	33.82	33.96	33.60	34.00	33.78	33.98	33.68	34.05	33.68
1+80	34.07	33.81	34.08	33.82	34.04	33.68	34.00	33.82	33.96	33.60	34.00	33.78	33.98	33.68	34.05	33.68
2+00	34.07	33.81	34.08	33.82	34.04	33.68	34.00	33.82	33.96	33.60	34.00	33.78	33.98	33.68	34.05	33.68

LOCATION PLAN
SCALE 1"=10'

TYPICAL SECTION AT NORTHWEST RETAINING WALL
SCALE 1/4"=1'-0"

GRADE PLAN LEGEND:
 SDL Deflection 00 0000 Top of finished concrete before placing pavement
 DL Deflection 00 0000 Top of top flange (erected steel) before placing concrete
 Based on 3" min from top of web plate to bottom of slab

WATERMAN ENGINEERING COMPANY
 Consulting Engineers
 EAST PROVIDENCE RHODE ISLAND

DATE: _____ SHEET 6 OF 16
 SCALE AS SHOWN

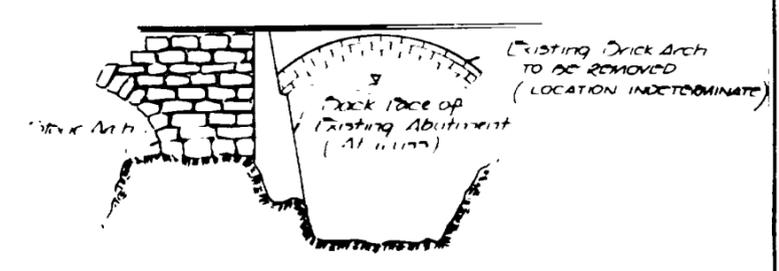
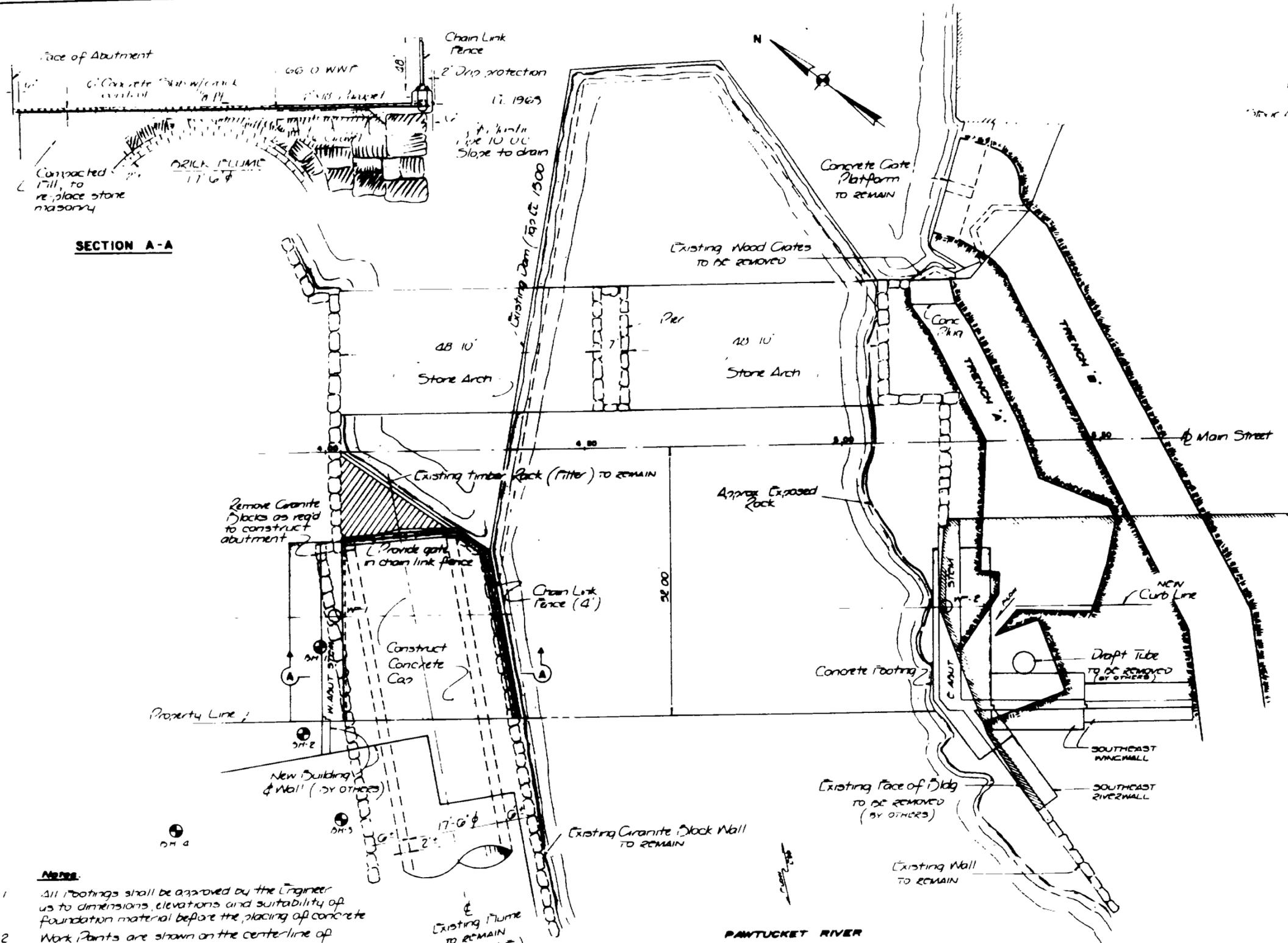
REVISIONS

NO.	DATE	BY
1	11/10/2017	

RHODE ISLAND
CITY OF PAWTUCKET
 ENGINEERING DEPARTMENT
MAIN STREET BRIDGE WIDENING

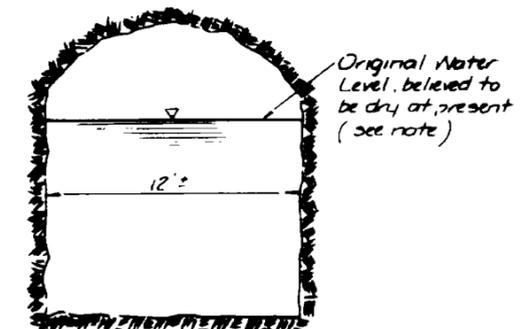
LOCATION & GRADE PLANS

APPROVED: _____
 FINAL DATE: _____



SECTION AT TRENCH "A"

Note
Trench 'A' is to be permanently sealed, after the removal of the brick arch cover, by placing mass concrete at the inlet and outlet as shown on the plans. After the concrete has cured and the trench has been inspected by the Engineer to insure that all flow has been eliminated, the Contractor shall backfill the trench, carefully compacting the fill in 12" max layers to retard settlement.

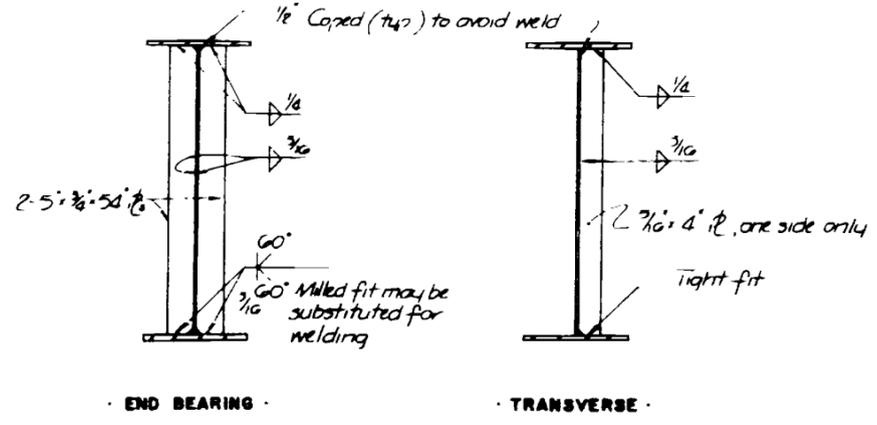
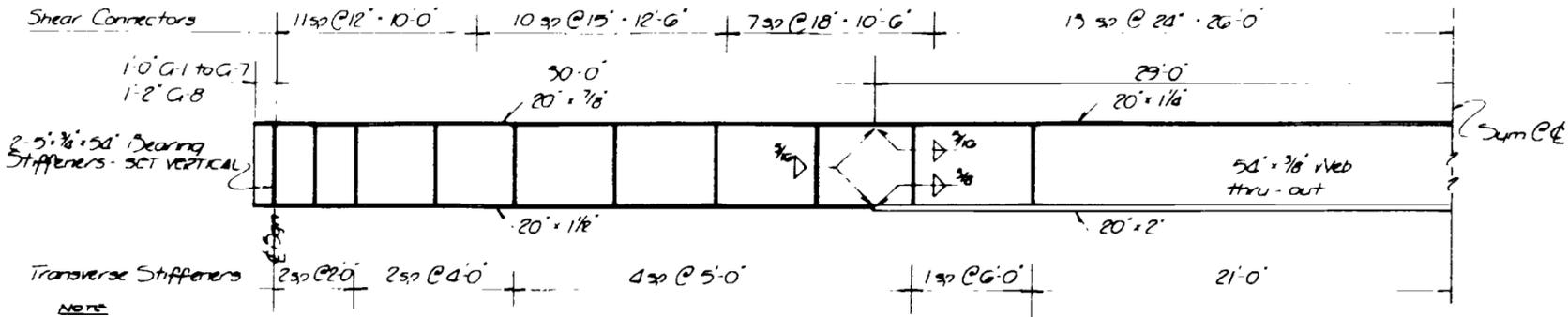


SECTION AT TRENCH "B"

Note
The best available information discloses that Trench 'B' has been sealed off by placing mass concrete at the inlet. The Contractor shall confirm this information and place any additional concrete necessary, in the opinion of the Engineer, to insure a positive seal.

- Notes:**
- All footings shall be approved by the Engineer as to dimensions, elevations and suitability of foundation material before the placing of concrete.
 - Work points are shown on the centerline of bearing on the abutments.
 - Installation of structural elements supporting utilities shall be previously coordinated with the respective company, prior to construction.

REVISIONS NO. DATE BY 1 10/10/07 RT		RHODE ISLAND CITY OF PAWTUCKET ENGINEERING DEPARTMENT MAIN STREET BRIDGE WIDENING	
WATERMAN ENGINEERING COMPANY Consulting Engineers EAST PROVIDENCE RHODE ISLAND		SUBSTRUCTURE LOCATION PLAN	
DATE: _____ SHEET 5 OF 18 SCALE 1" = 10' - 0"		APPROVED: _____ FINAL DATE: _____ APPROVED: _____	

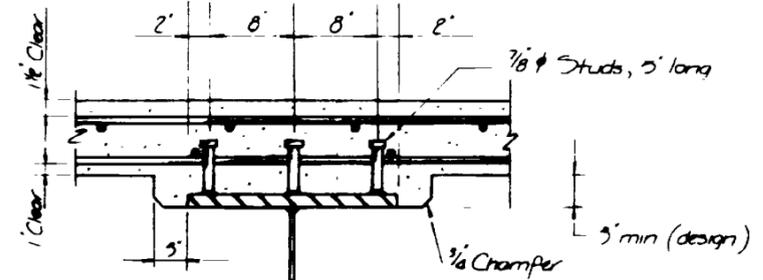
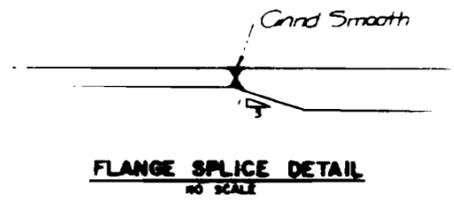
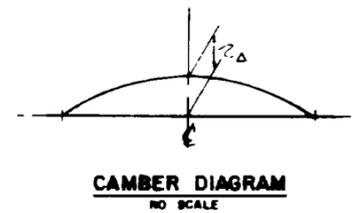


NOTE
Structural steel shapes and plates shall conform to the latest provisions of ASTM designation A-36, as indicated on these plans, or may be produced under another specification, but the material so selected and certified shall be shown to possess the physical and chemical properties of the specified ASTM designation.

GIRDER ELEVATION
SCALE 1/4" = 1'-0"

STIFFENER DETAILS
SCALE 3/4" = 1'-0"

GIRDER NO	Δ
G-1	0.90
G-2	0.89
G-3	0.84
G-4	0.87
G-5	0.90
G-6	0.95
G-7	1.01
G-8	1.15



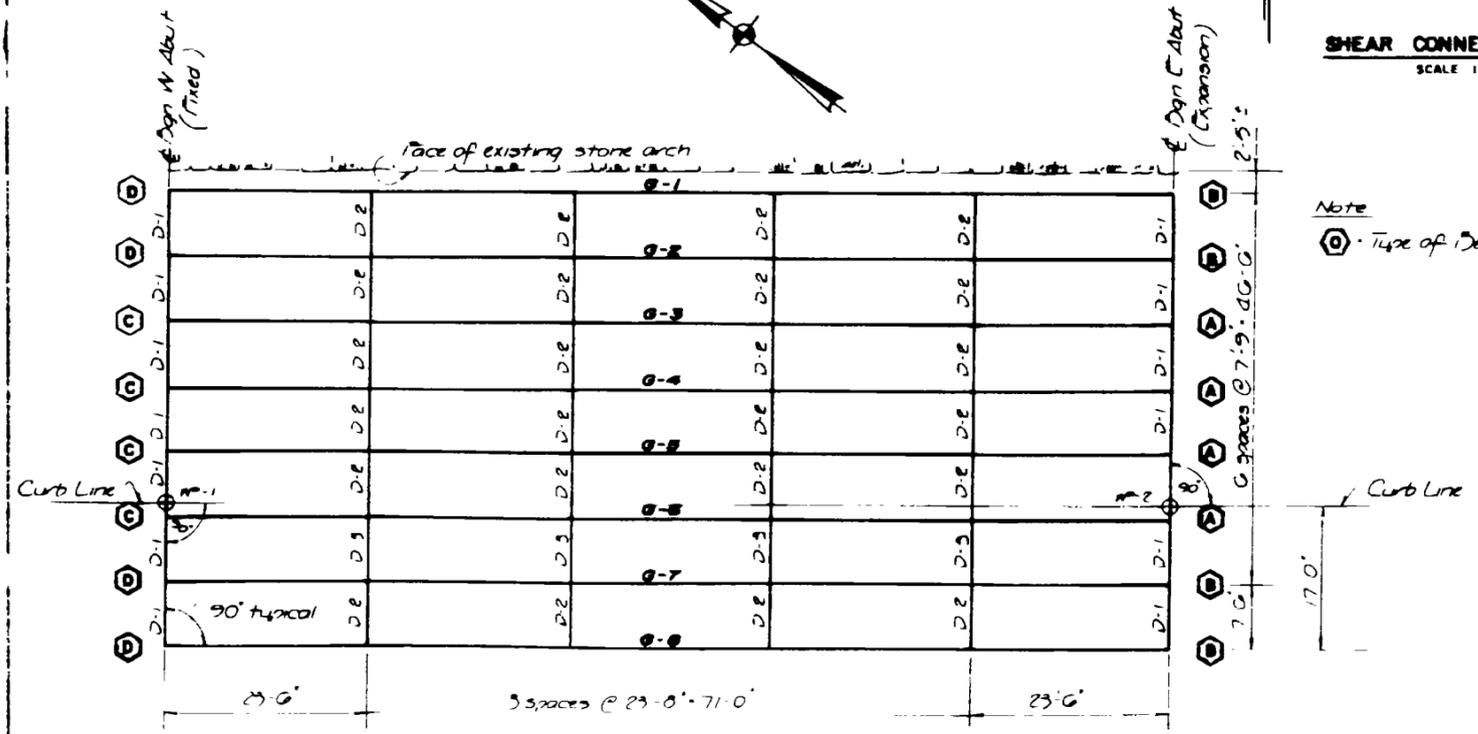
SHEAR CONNECTOR SPACING
SCALE 1 1/2" = 1'-0"

Notes:

- 1 The transverse stiffeners are to be located on the interior side of girder G-8
- 2 All dimensions are horizontal
- 3 All steel is A-36
- 4 For diaphragm details, see sheet 12
- 5 All welding, both shop and field shall be subject to inspection by the Engineer in accordance with the Specifications
- 6 The top surface of the upper flange of the girders and end diaphragms shall be free of any paint, oil or other impediments that would in any way reduce the bond of the concrete to the steel

NOTE
All welding shall conform to the current Specifications for Welded Highway and Railroad Bridges, Design Construction and Repair of the American Welding Society 1966 Edition with Addenda, as amended by AASHTO

Note
⊙ Type of Bearing - See Bearing Details Sheet 12



WATERMAN ENGINEERING COMPANY
Consulting Engineers
EAST PROVIDENCE RHODE ISLAND

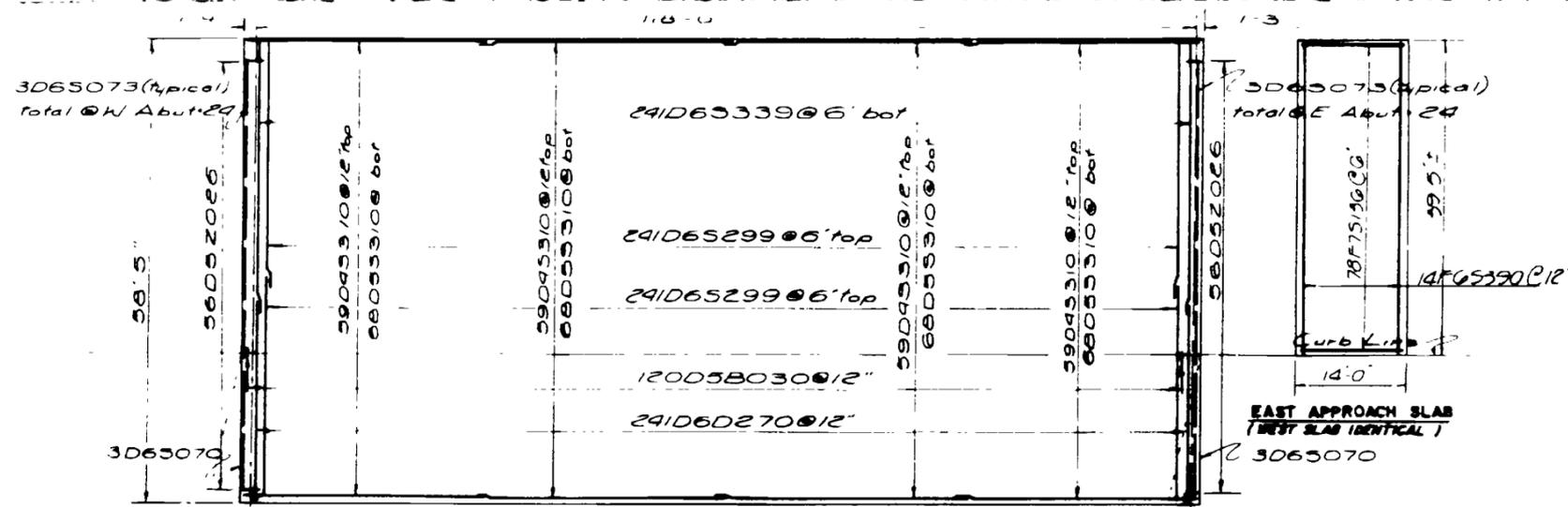
DATE: _____ SHEET 6 OF 16
SCALE AS SHOWN

REVISIONS
NO. DATE BY

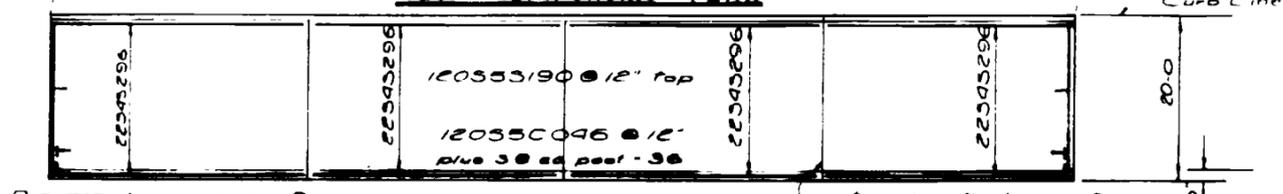
RHODE ISLAND
CITY OF PAWTUCKET
ENGINEERING DEPARTMENT
MAIN STREET BRIDGE
WIDENING

STEEL DETAILS & FRAMING PLAN

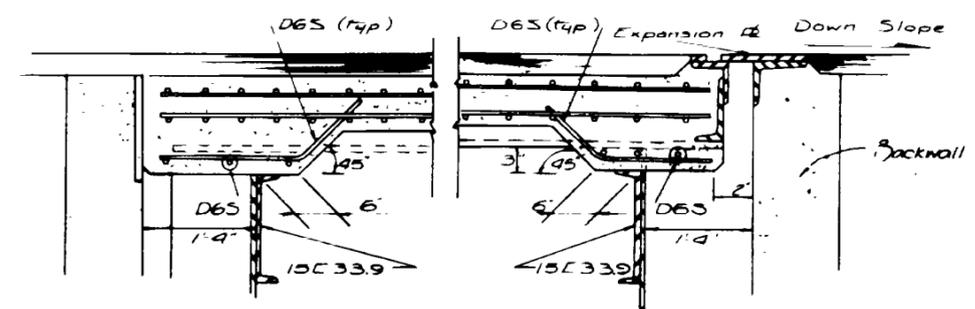
APPROVED: _____
FINAL DATE: _____



DECK REINFORCING PLAN



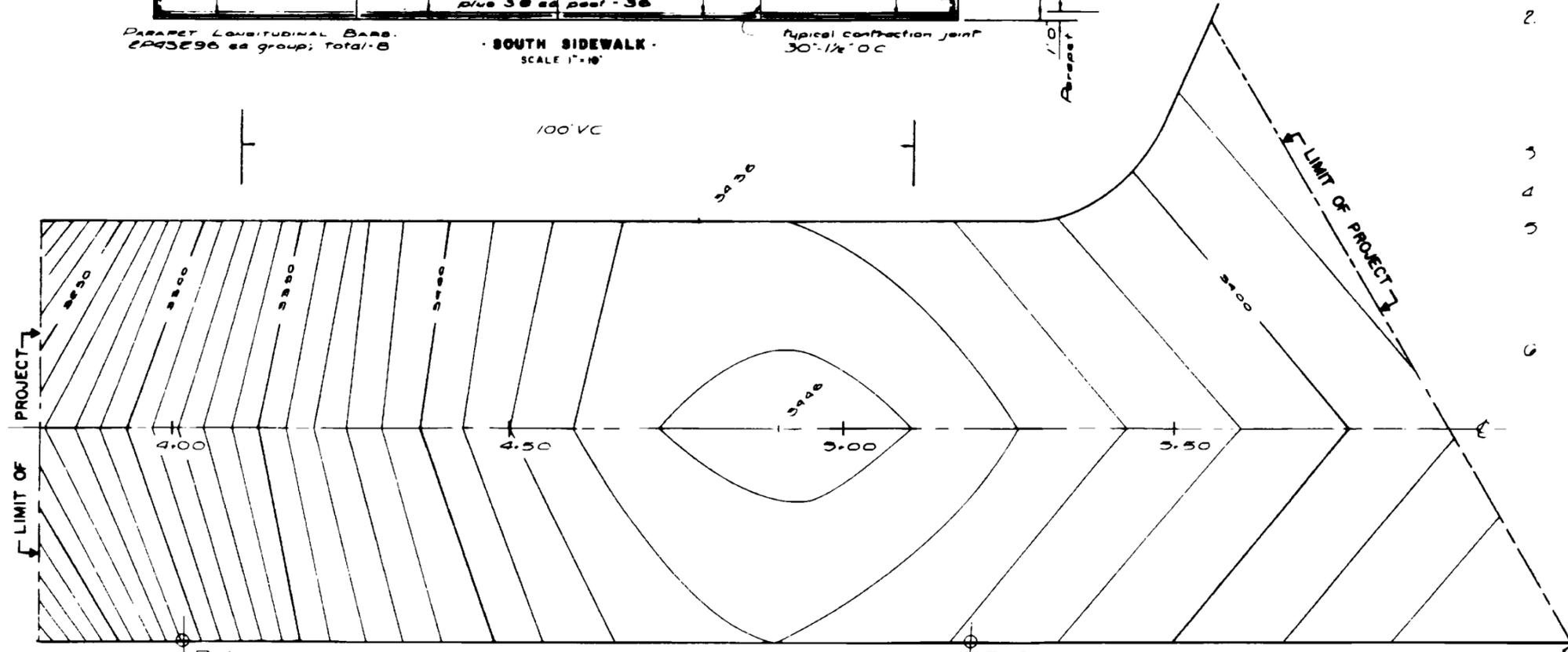
SOUTH SIDEWALK
SCALE 1" = 10"



HAUNCH DETAILS
SCALE 1" = 1'-0"

GENERAL CONCRETE NOTES

1. Air-entrained Portland Cement Concrete shall be provided as required and shall be designated by the symbol (AC) following the class of concrete.
2. Unless otherwise indicated on these plans all reinforcing in the bottom of footing slabs and in walls and haunches, shall be lapped 20 diameters and bars near the top of footings with more than 12 inches of concrete beneath the bars, shall be lapped 35 diameters to make a splice. In deck slabs splice all bars 20 diameters with top bars spliced at the center of span between stringers and bottom bars spliced over stringers.
3. Any concrete stains or discolorations shall be removed by the contractor.
4. Horizontal construction joints other than those shown on the plans or as authorized by the Engineer will not be permitted.
5. All exposed concrete surfaces visible in elevations shall be rubbed in accordance with the specifications. This shall include all exposed surfaces to one foot below ground line. This work shall also include the underside of the deck slab and nosing from the edge of the nosing to the fascia girder. Sidewalk finish shall be brushed to provide an even non-skid surface.
6. All exposed edges and re-entrant corners not otherwise detailed shall have a 1/4 inch minimum chamfer.

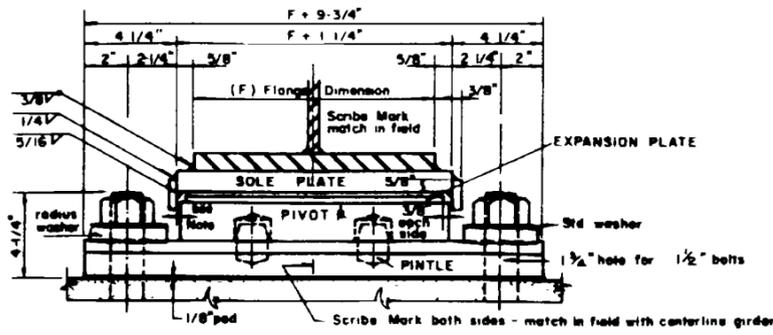


FINISHED SURFACE CONTOUR PLAN
SCALE 1" = 10"

WATERMAN ENGINEERING COMPANY
Consulting Engineers
EAST PROVIDENCE RHODE ISLAND
DATE: _____ SHEET 7 OF 16
SCALE AS SHOWN

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
CITY OF PAWTUCKET
ENGINEERING DEPARTMENT
MAIN STREET BRIDGE
WIDENING
DECK REINFORCING
& CONTOUR PLANS
APPROVED: _____
FINAL DATE: _____

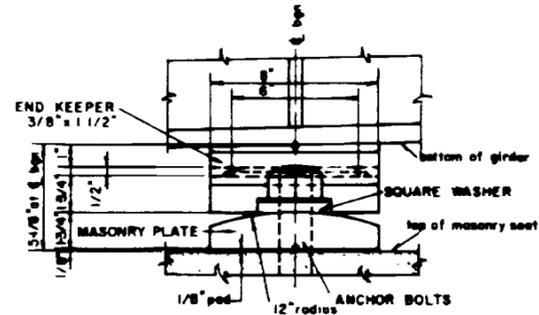


ELEVATION

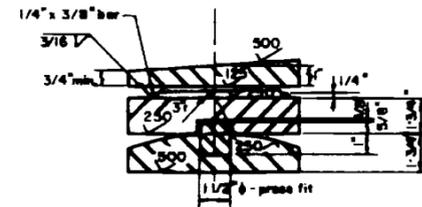
NOTE: This dimension is 1/16" for TYPE A bearings
 1/4" for TYPE B bearings

TYPE A - no side movement
 TYPE B - side movement

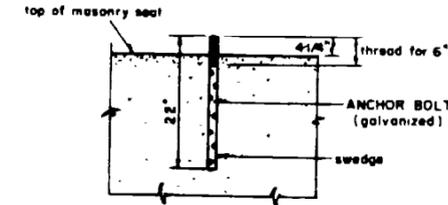
(EXPANSION)
 TYPE A & B
 SLIDING BEARING
 DETAIL 40 A
 SCALE 3" = 1'-0"



END VIEW



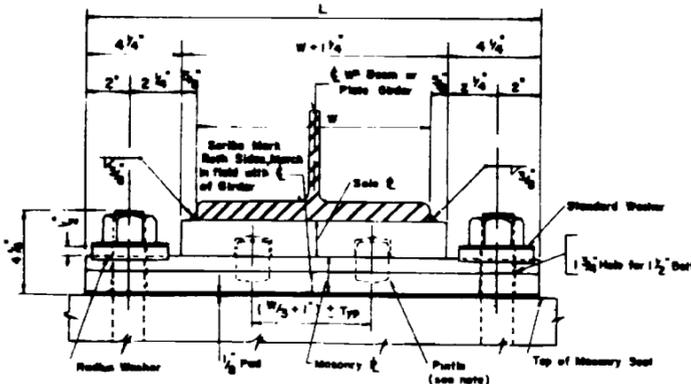
PINTLE FOR EXPANSION BEARING



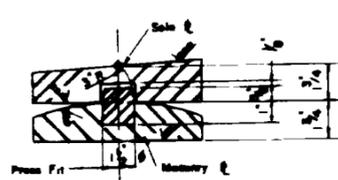
ANCHOR BOLT SETTING DETAIL

EXPANSION BEARING NOTES:

- 1 Sole, pivot and masonry plates shall conform to A.S.T.M. A-242. All other material shall conform to A.S.T.M. A-36.
- 2 Expansion plates shall conform to A.S.T.M. designation B-100, alloy 1 or B-22.
- 3 Finish and install resilient bearing pad under each masonry plate.
- 4 All anchor bolts, nuts and washers to be galvanized or metalized A-307 or A-36.
- 5 All sole plates to be welded to the girder in the field.
- 6 All finishes indicated on surfaces are based on A.S.A. B-46 1-55.
- 7 Before welding girders to sole plates the entire steel assembly shall be set into position on the pin type pier bearings.



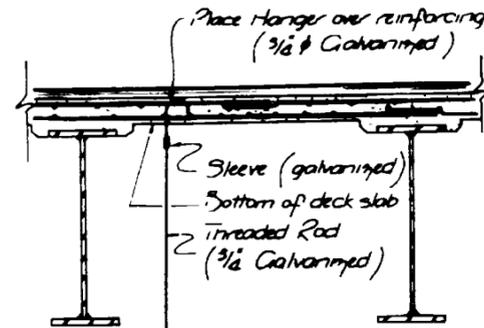
ELEVATION



FIXED BEARING

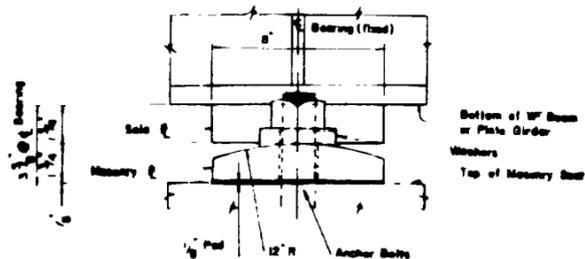
NOTE:
 TYPE C With Pivots - No Side Movement
 TYPE D Without Pivots - Side Movement

(FIXED)
 TYPE C & D
 SLIDING BEARING
 DETAIL 40-B
 SCALE 3" = 1'-0"



NOTE: Place a minimum of 2 hangers between diaphragm supports

SEWER LINE HANGER DETAIL
 SCALE 1/2" = 1'-0"



END VIEW

WATERMAN ENGINEERING COMPANY
 Consulting Engineers
 EAST PROVIDENCE RHODE ISLAND

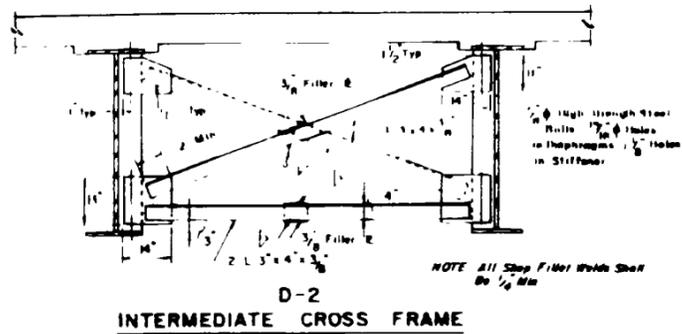
DATE _____ SHEET 11 OF 18
 SCALE AS SHOWN

NO.	DATE	BY
1	12/18/07	RT

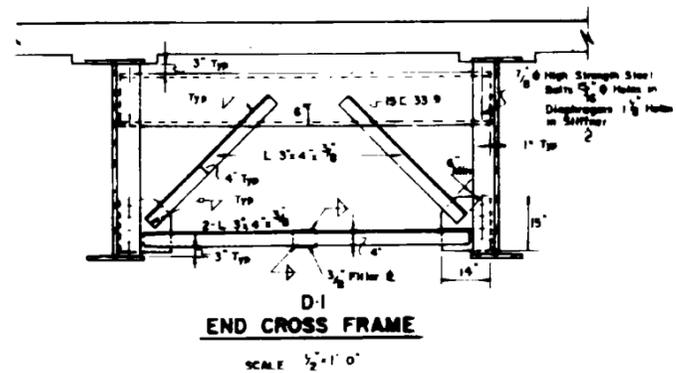
RHODE ISLAND
 CITY OF PAWTUCKET
 ENGINEERING DEPARTMENT
 MAIN STREET BRIDGE
 WIDENING

BEARING & JOINT DETAILS

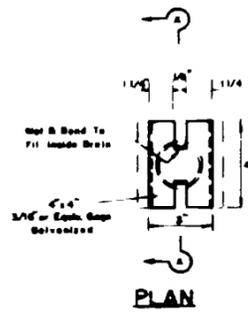
APPROVED _____
 FINAL DATE _____
 APPROVED _____



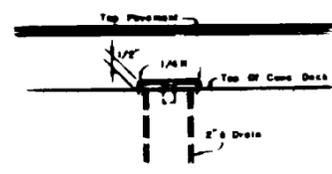
D-2
INTERMEDIATE CROSS FRAME



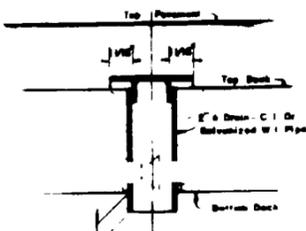
D-1
END CROSS FRAME



PLAN

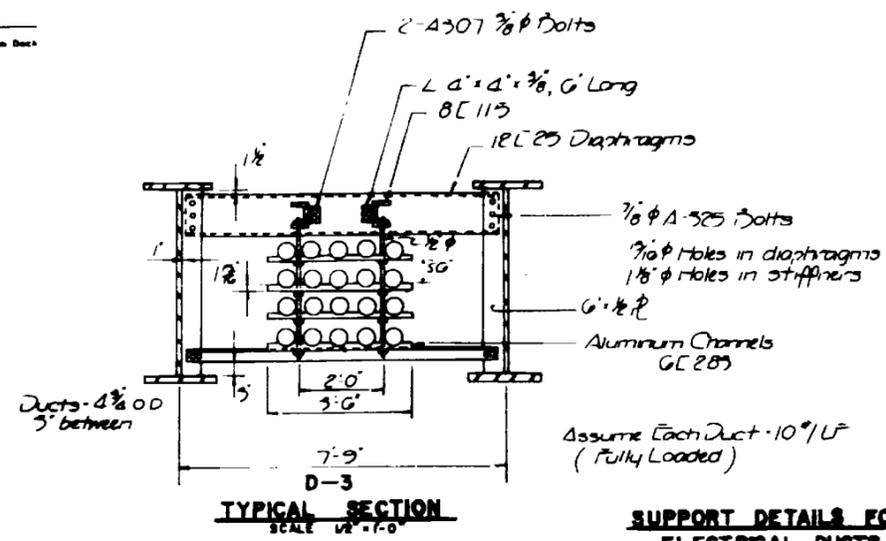


ELEVATION



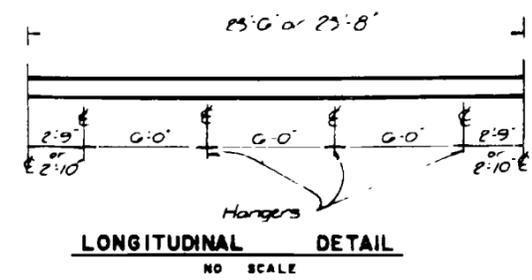
SECTION-AA

SUBDRAIN
SCALE 3/4" = 1'-0"



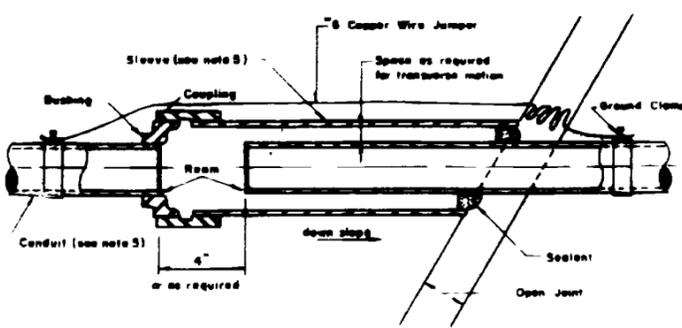
D-3
TYPICAL SECTION
SCALE 1/2" = 1'-0"

SUPPORT DETAILS FOR
ELECTRICAL DUCTS



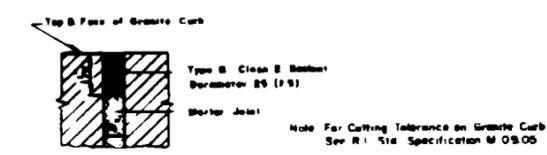
LONGITUDINAL DETAIL
NO SCALE

NOTE:
The Electrical Ducts shall be set in radial slots cut in the channel flanges Radius = 5", Depth = 1". Set ducts 8" O.C.

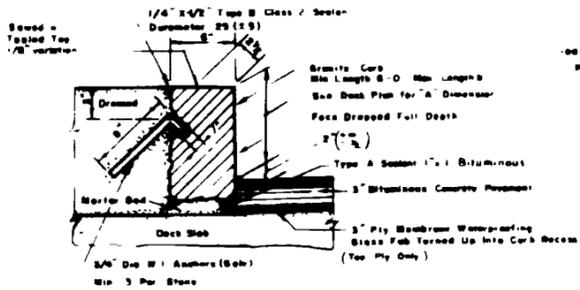


- NOTES
1. Each length of conduit shall bear the label of the Underwriters Laboratories Inc.
 2. Installation shall conform to the requirements of the National Electrical Code.
 3. Work shall conform to Public Chapter 5-6-2 Work for which License is Required.
 4. Metal Conduit and fittings shall be zinc coated.

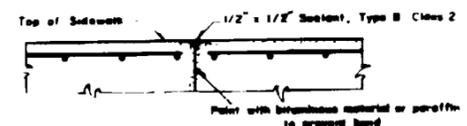
ELECTRICAL CONDUIT
EXPANSION COUPLING
NO SCALE



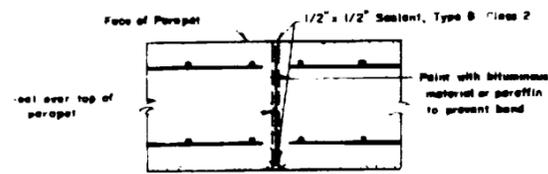
JOINT DETAIL



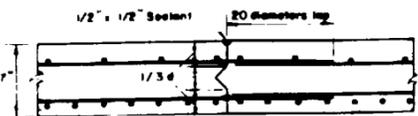
BRIDGE CURB
SCALE 1/4" = 1'-0"



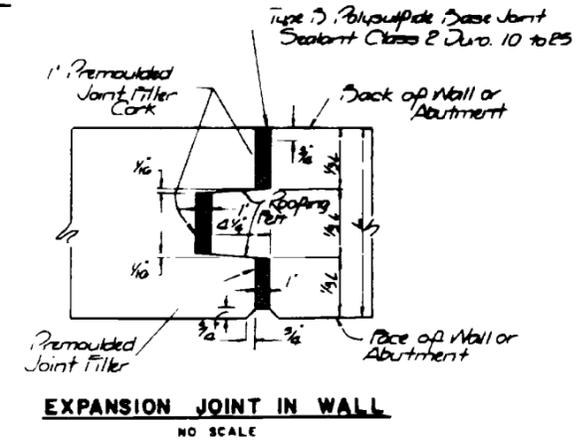
CONTRACTION JOINT IN WALK & MEDIAN
NOT TO SCALE



CONTRACTION JOINT IN PARAPET
NOT TO SCALE



CONSTRUCTION JOINT IN DECK SLAB
NOT TO SCALE



EXPANSION JOINT IN WALL
NO SCALE

WALTER H. ENGINEERING COMPANY
Consulting Engineers
EAST PROVIDENCE RHODE ISLAND

DATE: SHEET 12 OF 16
SCALE AS SHOWN

REVISIONS		NO.		DATE		BY	
RHODE ISLAND CITY OF PAWTUCKET ENGINEERING DEPARTMENT MAIN STREET BRIDGE WIDENING				MISCELLANEOUS DETAILS			
APPROVED		SUPERVISING CIVIL ENGINEER		APPROVED		CIVIL ENGINEER	
DATE		APPROVED		DATE		APPROVED	

TABLE A - FOR SETTING PLATES

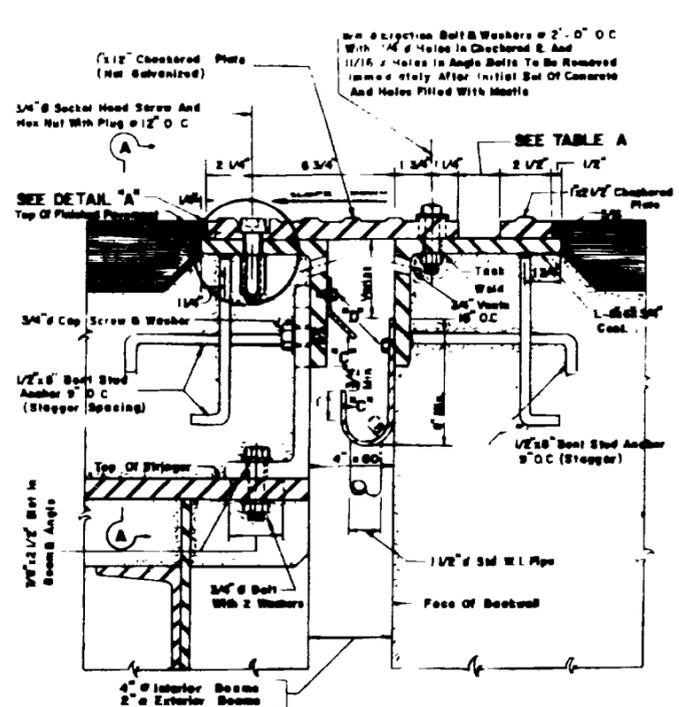
TEMP	SPAN LENGTH		
	60'	120'	175'
30°	2 1/4"	2 1/4"	2 3/4"
45°	2 1/4"	2 1/4"	2 3/4"
60°	2"	2"	2"
75°	1 1/2"	1 1/2"	1 1/2"
90°	1 1/2"	1 1/2"	1 1/2"

TABLE B

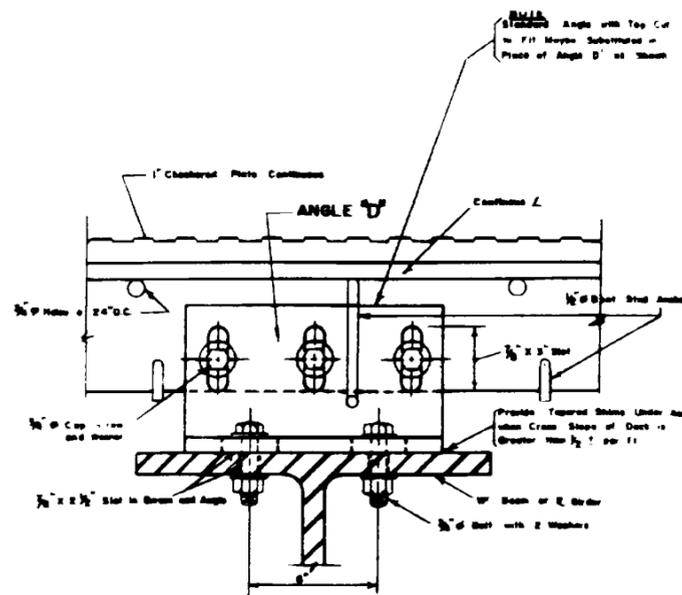
DIMENSION "C"	ANGLE "D"
9' To 9 1/2"	L 6 x 4 x 3/4"
Over 9 1/2" To 10 1/2"	L 7 x 4 x 3/4"
Over 10 1/2" To 11 1/2"	L 8 x 4 x 3/4"
Overall 1 1/2" To 12 1/2"	L 9 x 4 x 3/4"

Notes

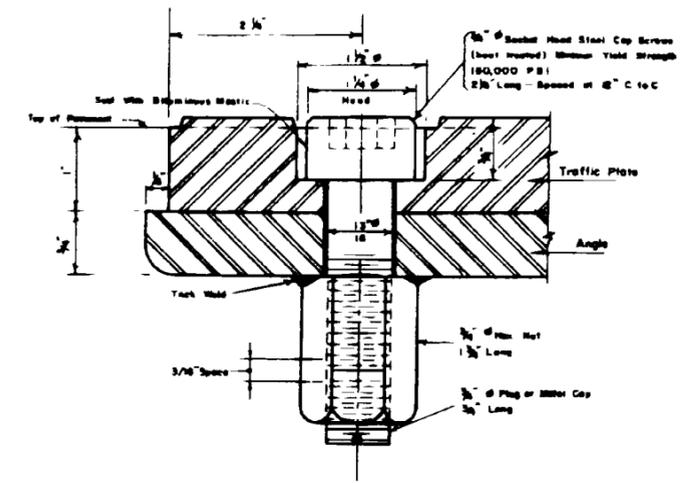
1. Entire unit to be assembled erected and set to grade before pouring concrete.
2. All material to be galvanized or metalized, except 1" x 12" checkered plate and bolts used for erection, and/or when surface is in contact with concrete.
3. Top surface of checkered plate shall be painted on required under from 809, Paint for Metals.
4. C - 1/2" Bolt W/ 1/2" (Galv) A57M, A42 (maximum tensile strength 59,000 psi).
5. D - 1/2" Hex Head Bronze Bolt @ 12" O.C.
6. All structural shapes shall conform to A57M designation A 36.
7. Bolt stud anchors shall be welded by pressure process.
8. Headed stud anchors may be substituted for bolt stud anchors.



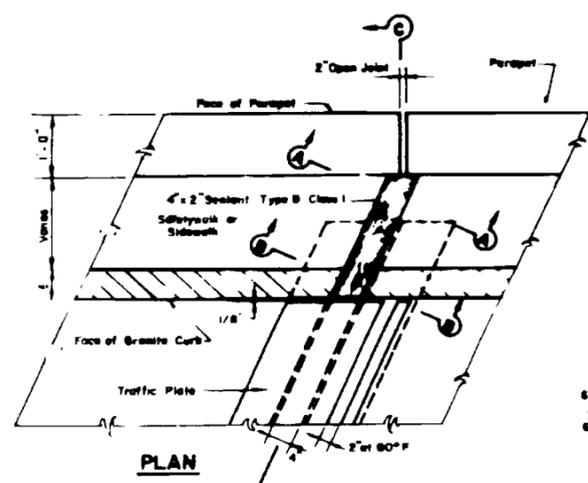
DETAIL No 22-A
EXPANSION JOINT AT ABUTMENT
SCALE 3" = 1'-0"



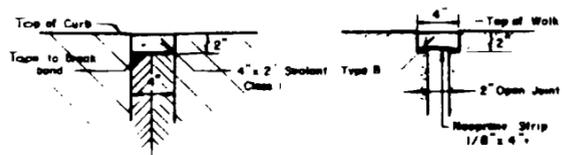
SECTION A-A
SCALE 2" = 1'-0"



DETAIL A
SCALE FULL SIZE



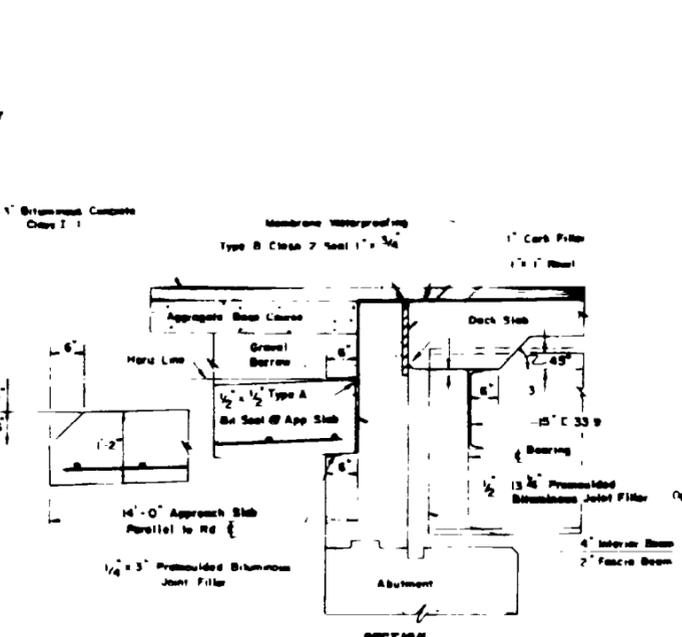
PLAN



SECTION B-B

SECTION A-A

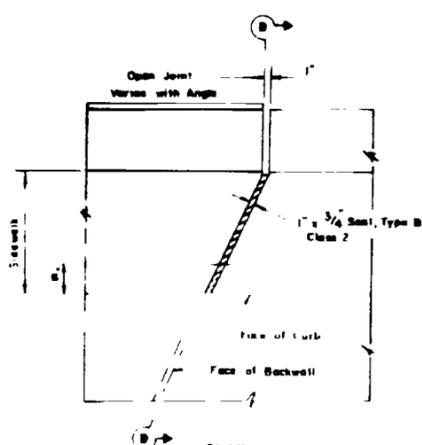
EXPANSION JOINT IN WALKS
NOT TO SCALE



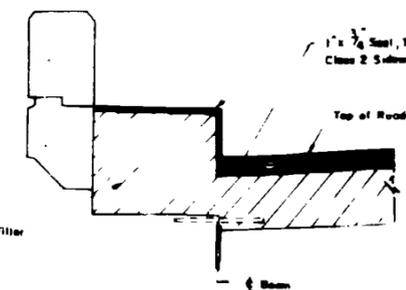
SECTION

APPROACH PAVEMENT WITH CRUSHED STONE BASE

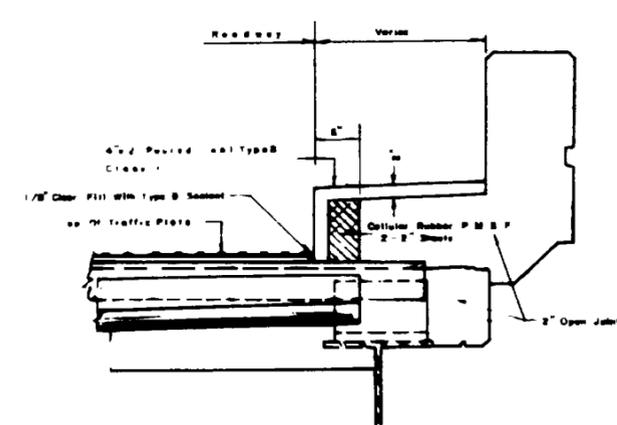
FIXED JOINT



PLAN



SECTION D-D

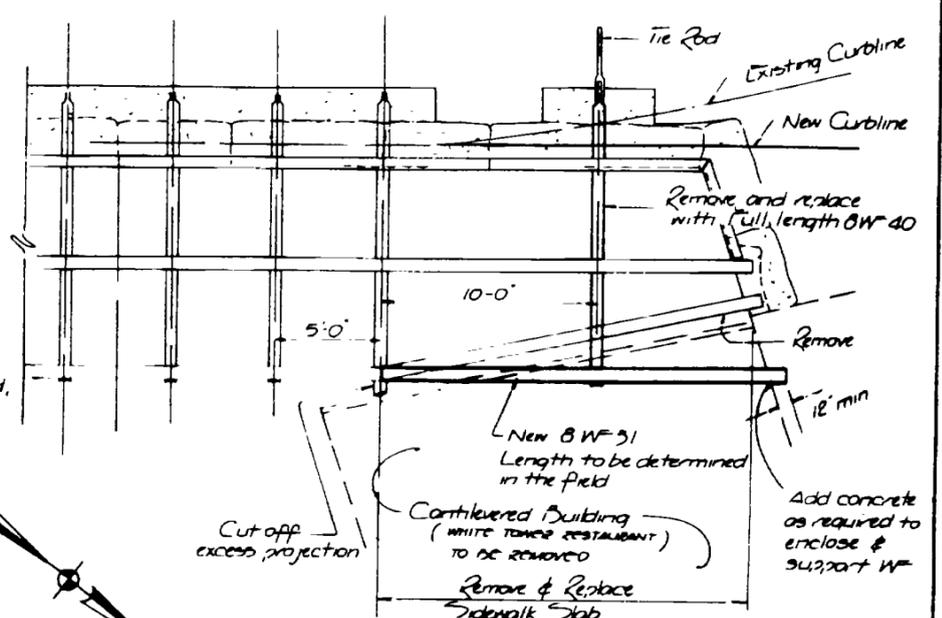
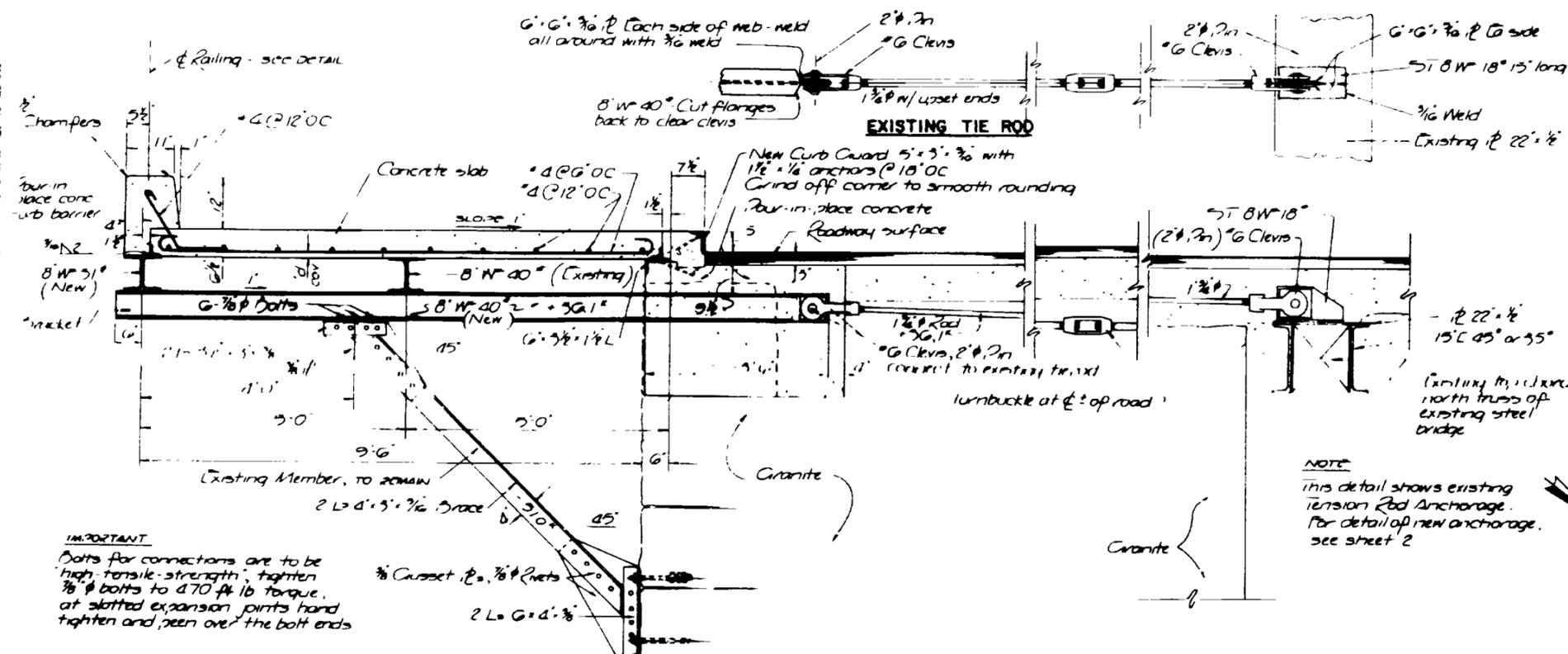


SECTION C-C
SCALE 1" = 1'-0"

DECK JOINT DETAILS

WATERMAN ENGINEERING COMPANY
Consulting Engineers
PROVIDENCE RHODE ISLAND
DATE: JUNE 13, 1916
AS SHOWN

REVISIONS
NO. DATE BY
CITY OF PAWTUCKET
ENGINEERING DEPARTMENT
MAIN STREET BRIDGE
WIDENING
APPROVED: SUPERVISING CIVIL ENGINEER
APPROVED: CIVIL ENGINEER
CHECKED: CHIEF ENGINEER

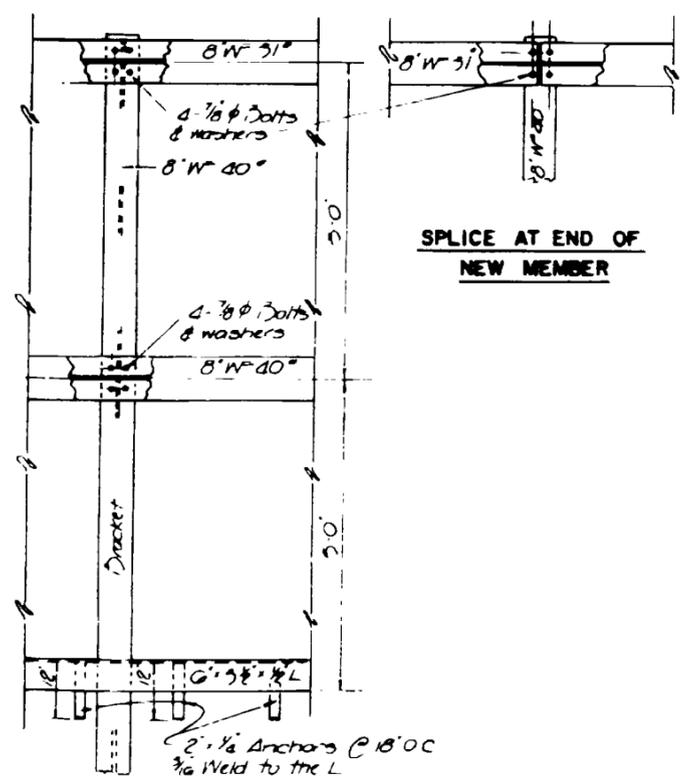


PLAN OF NORTHWEST SIDEWALK
SCALE 1/4" = 1'-0"

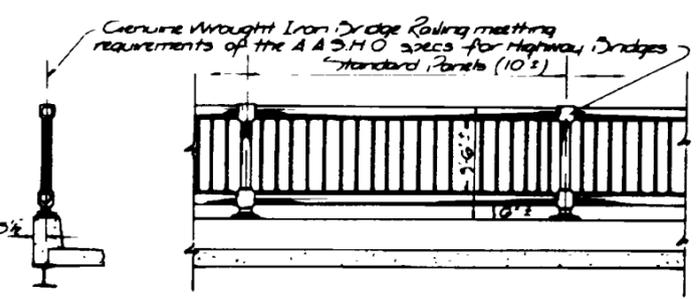
IMPORTANT
Bolts for connections are to be high-tensile strength; tighten 3/8" bolts to 470 ft lb torque, at slotted expansion joints hand tighten and peen over the bolt ends

NOTE
This detail shows existing tension rod anchorage. For detail of new anchorage, see sheet 2

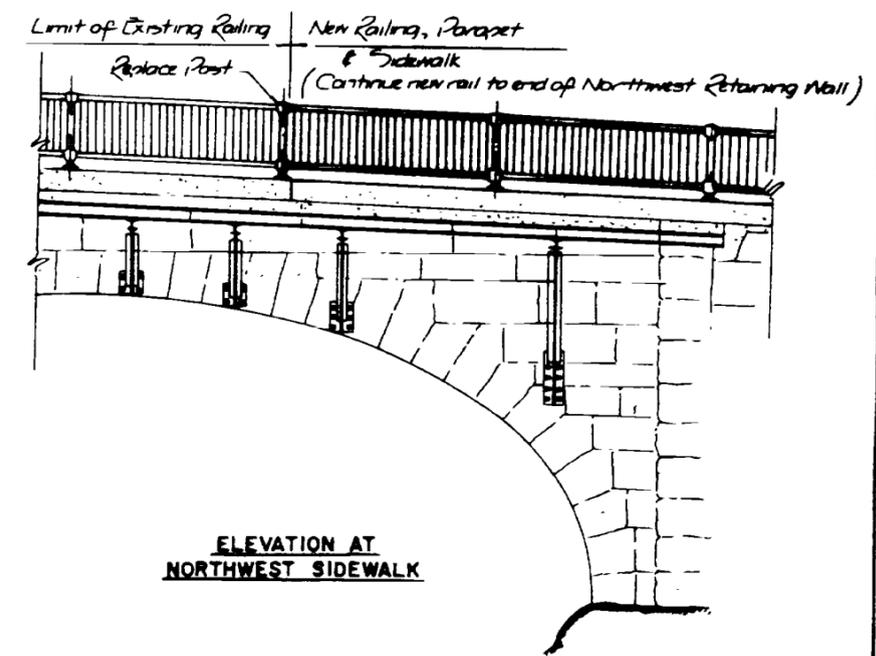
NEW WALK DETAILS
SCALE 3/8" = 1'-0"



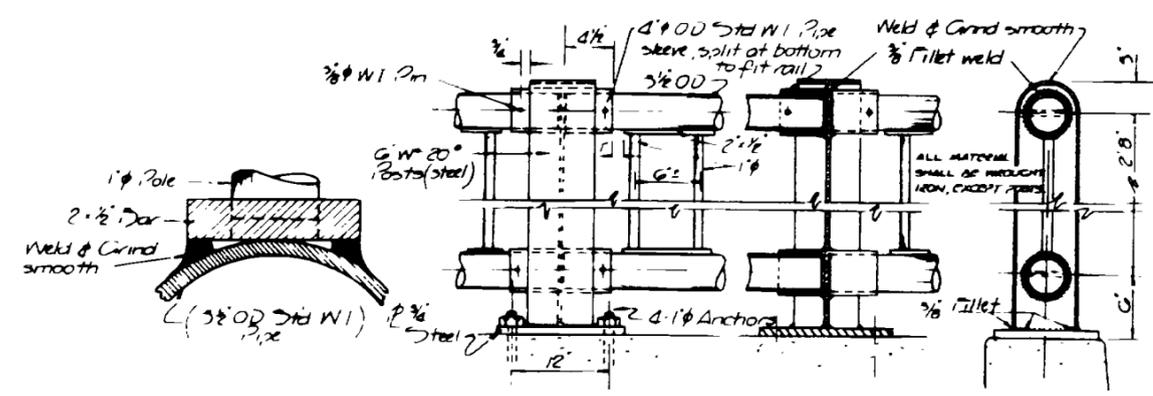
SPLICE AT END OF NEW MEMBER



RAILING - INSIDE ELEVATION



ELEVATION AT NORTHWEST SIDEWALK



RAILING DETAILS

CONNECTION DETAIL

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
CITY OF PAWTUCKET
ENGINEERING DEPARTMENT
MAIN STREET BRIDGE
WIDENING

ALTERATIONS
TO NORTH SIDEWALK

APPROVED: _____
DATE: _____

APPROVED: _____
DATE: _____

WATERMAN ENGINEERING COMPANY
Consulting Engineers
EAST PROVIDENCE RHODE ISLAND

DATE: _____ SHEET 16 OF 16
SCALE AS SHOWN

