


TO: MAIN OFFICE REGIONAL OFFICES SUPERSEDED BY EI 96-021 EFFECTIVE 4/9/1996	 ENGINEERING INSTRUCTION NEW YORK STATE DEPARTMENT OF TRANSPORTATION
SUBJECT: BRIDGE DESIGN DATA SHEETS 75-60A, 60B, 60D, 60E, 60F, 60G, 60H, 61, 62, 63 Subject Code: 7.35-2	Distribution: <input checked="" type="checkbox"/> Main Office <input checked="" type="checkbox"/> Regions <input type="checkbox"/> Special Code: EI 75-70 Date: Oct. 20, 1975
APPROVED: <i>J. V. Hourigan</i> Deputy Chief Engineer (Structures)	Supersedes: BDD 72-60AR1, 60BR1, 60D, 60E, 73-60F, 73-61, 62, 63

Attached are copies of the subject sheets for distribution to your personnel. The principal changes on these sheets are as follows:

BDD 75-60A - The 1/2" (Typ.) dimension in the blockout was changed to 3/4" to agree with revisions made by the manufacturer.

The "A" dimension in the table was increased 1/2" due to the elastomeric material.

Detail "C" was added.

Section B-B - Delete the 5-3/4" dimension from the bottom of slab to top of diaphragm.

BDD 70-60B - The curtain walls have been removed to conform to the GLD sheets.

The width of the blockouts has been increased by 1/2" (Section A-A).

The 1/2" (Typ.) dimension was changed to 3/4".

The haunch on the front of the backwall has been removed.

BDD 75-60D, 60E, 60F - The dimensions were changed to agree with revisions made by the manufacturer.

BDD 75-60G, 60H - These are new sheets for Type 650 and Type 900 Elastomeric Expansion Joint.

BDD 75-61 - Item numbers have been changed to agree with the Specification Book.

Subject:

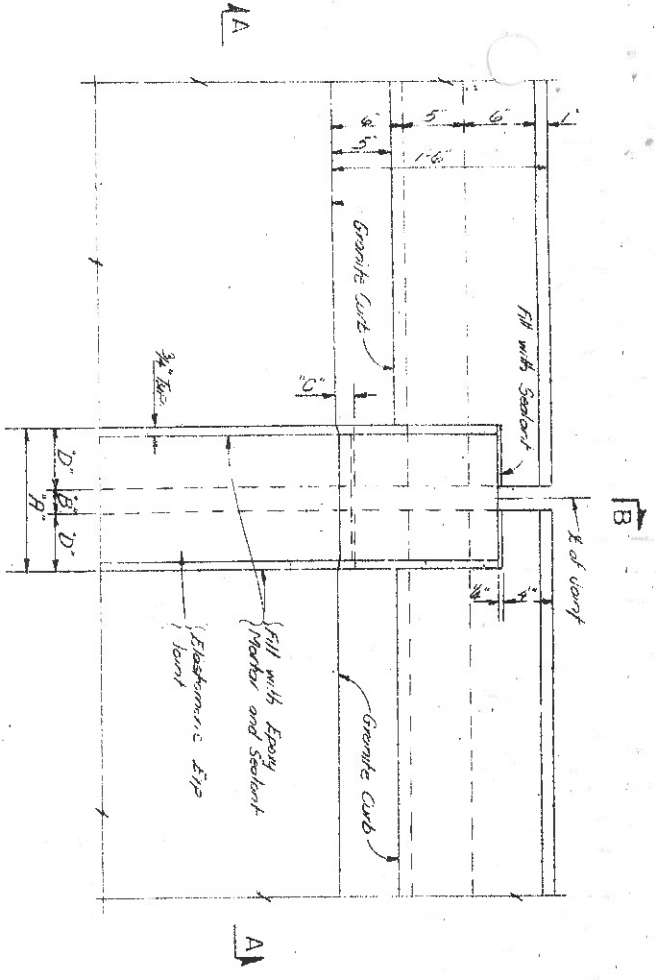
BRIDGE DESIGN DATA SHEETS 75-60A, 60B, 60D, 60E, 60F, 60G, 60H,
61, 62, 63

BDD 75-62 - The curtain walls have been removed to conform with the GLD sheets.

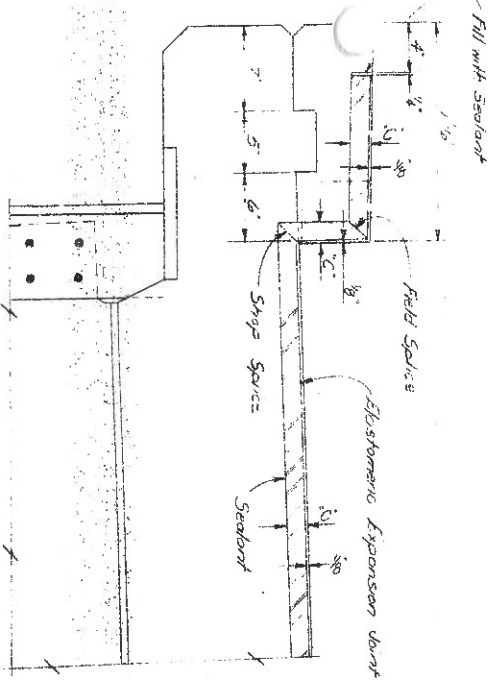
The haunch on the front of the backwall has been removed.

The item numbers have been changed to agree with the Specification Book.

BDD 75-63 - The details have been revised to agree with BDD 75-62.

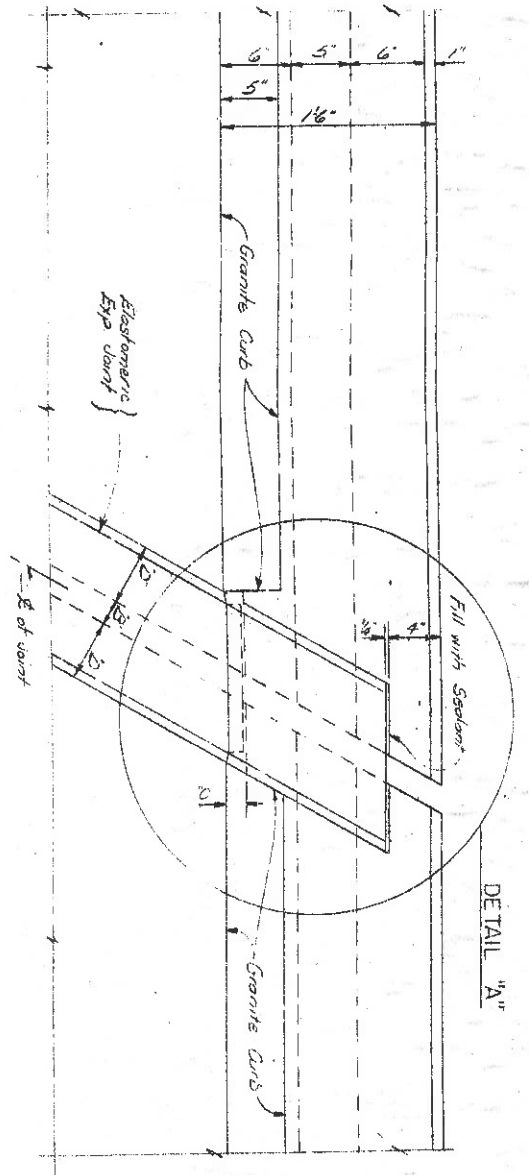


PLAN - 0° SKEW

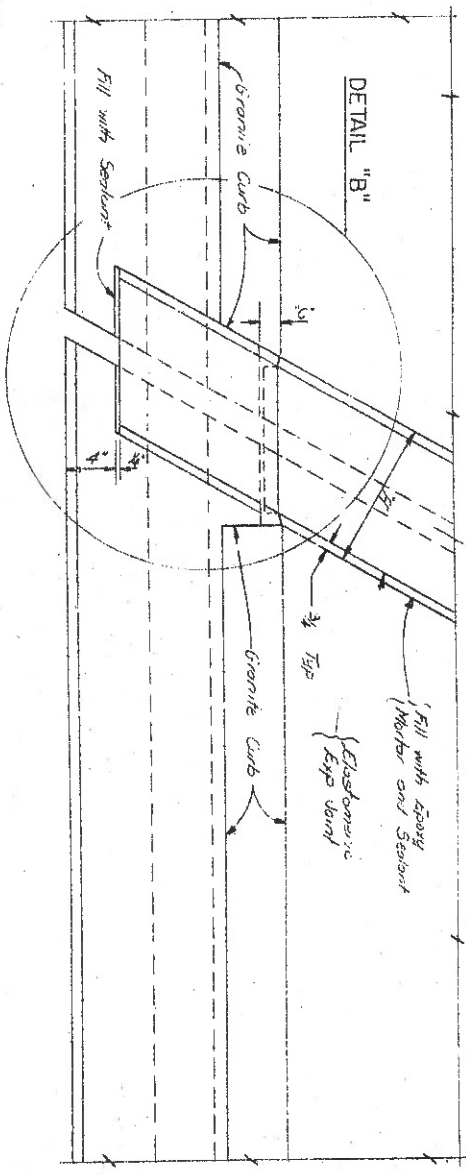


SECTION B-B

TYPE	CONDITION	SEALS				SIZE OF ANCHOR BOLT
		A @ 68°	B @ 68°	C	D	
200	Spans up to 17'-0"	1 1/2"	1 3/8"	1 3/4"	5 1/2"	1/2" d
270	Spans over 17'-0" to 24'-0"	1 3/8"	1 5/8"	2"	6 1/2"	3/4" d
400	Spans over 24'-0" to 32'-0"	2 3/8"	2 3/4"	3 1/4"	10 3/4"	3/4" d
650	Spans over 32'-0" to 55'-0"	2 3/8"	3 3/4"	3 3/4"	12 3/4"	1/2" d
900	Spans over 55'-0" to 269'-0"	3 5/8"	3 3/8"	3 3/8"	15 3/8"	1/2" d

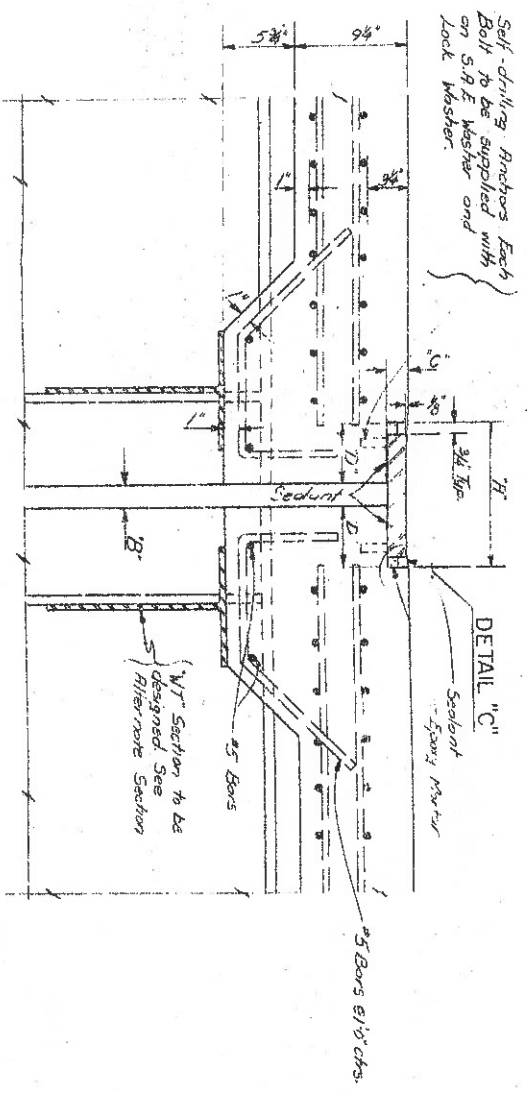


DETAIL "A"

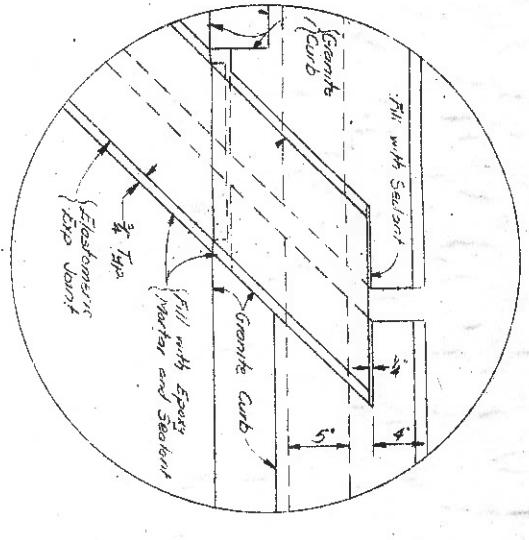


DETAIL "B"

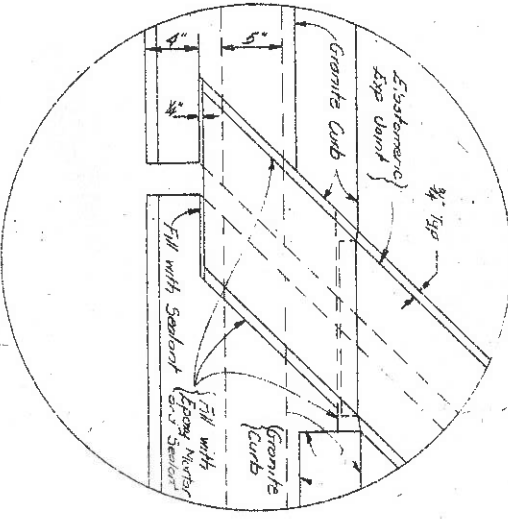
PLAN - SKEWS UP TO 30°



SECTION A-A

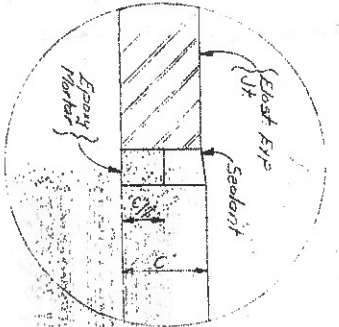


DETAIL "A"

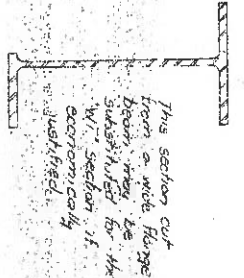


DETAIL "B"

SKEWS - OVER 30°



DETAIL "C"

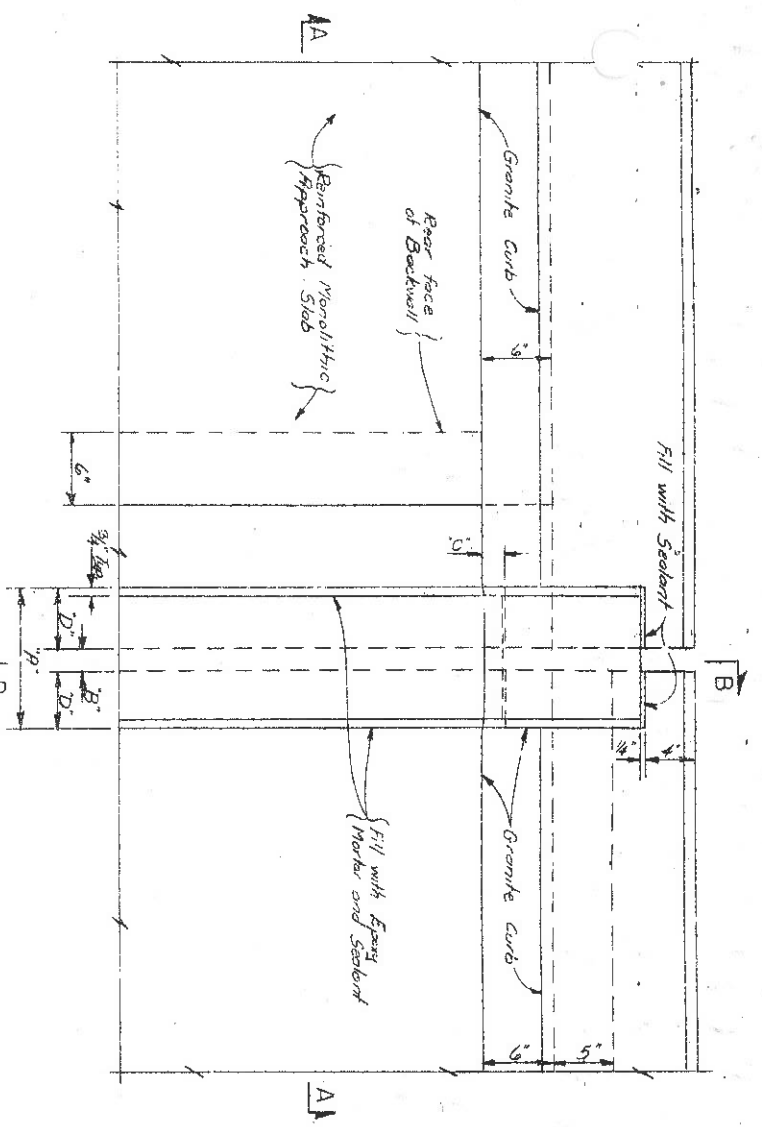


ALTERNATE SECTION

This section cut from a wide range drawn may be substituted for the "WT" section if sections are not available.

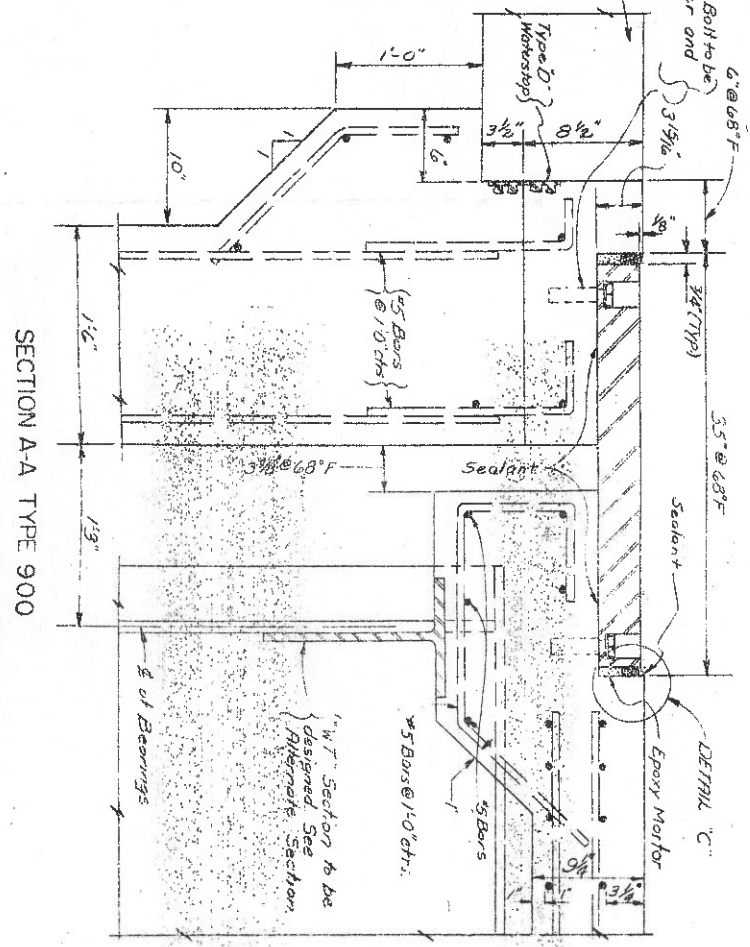
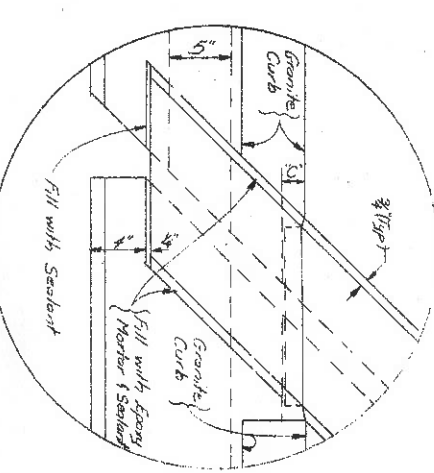
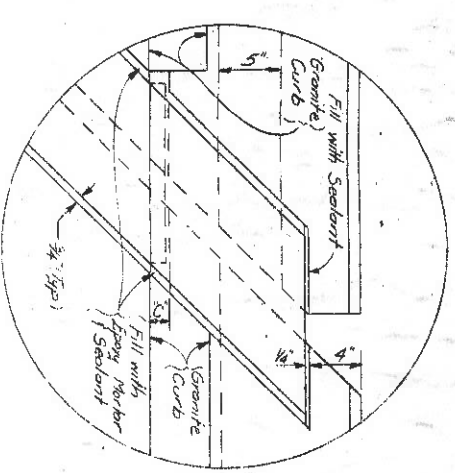
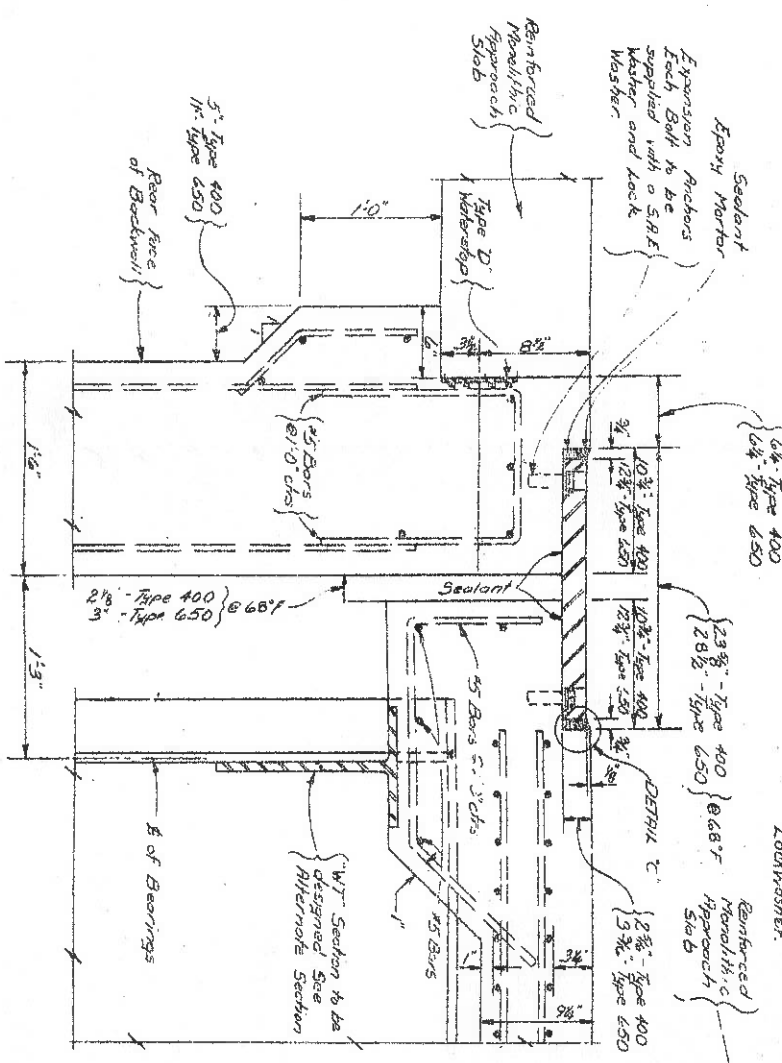
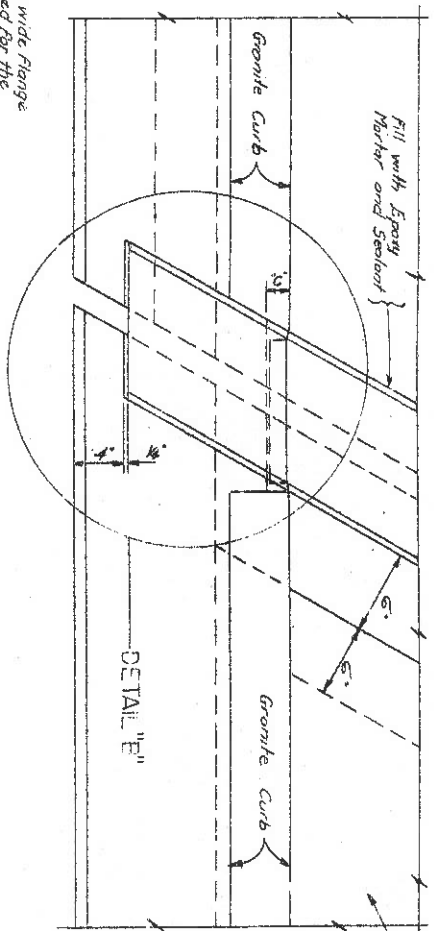
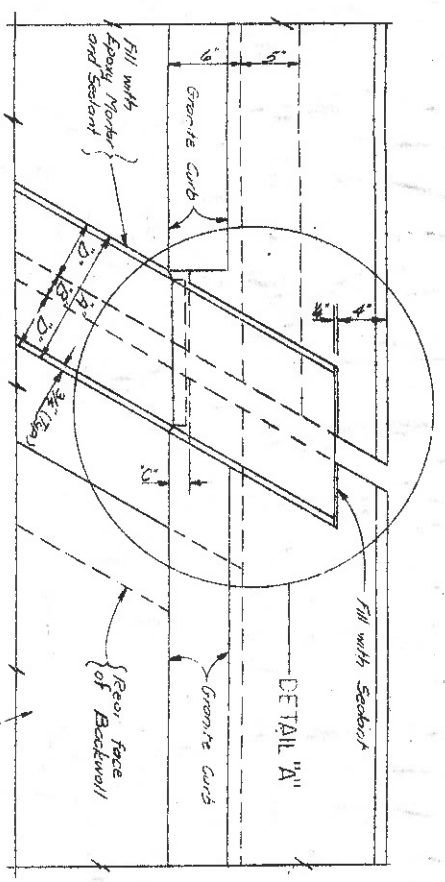
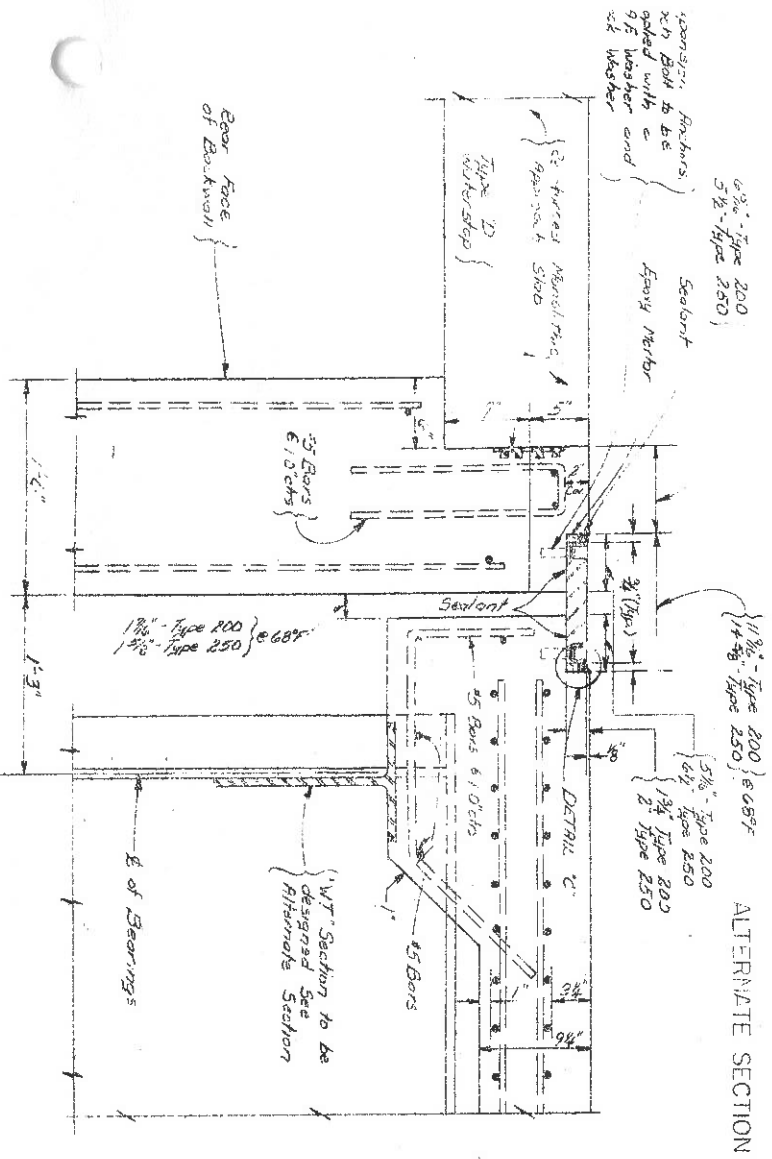
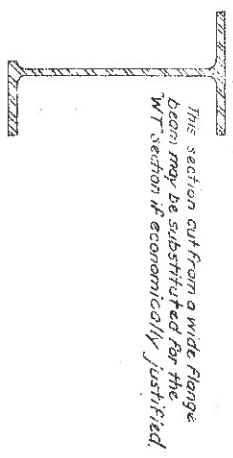
APPROVED
10/21/25
[Signature]
District Civil Engineer, Mechanical

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION
ELASTOMERIC EXPANSION JOINT
AT PIER



Note:
The dimensions for A, B, C and D are given in inches on sheet BDD 72-60A. These dimensions are also shown on the various sections shown below.

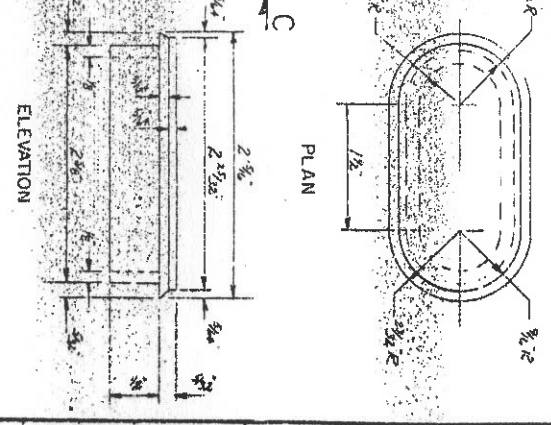
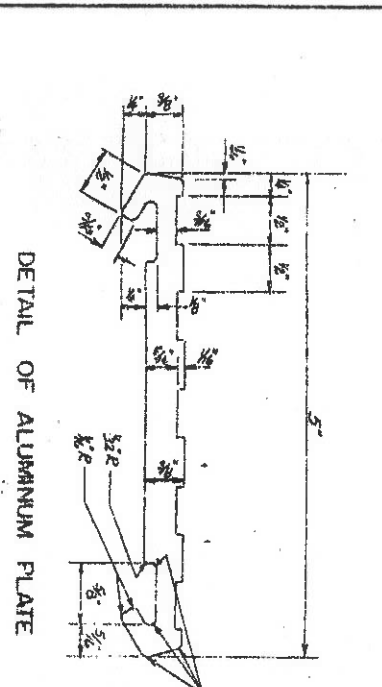
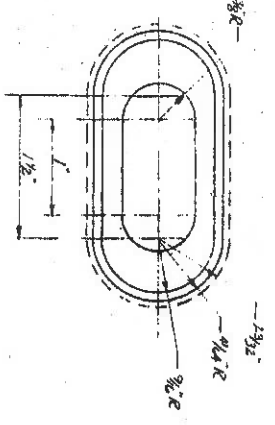
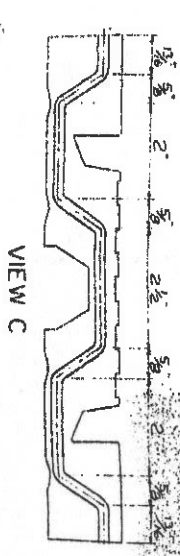
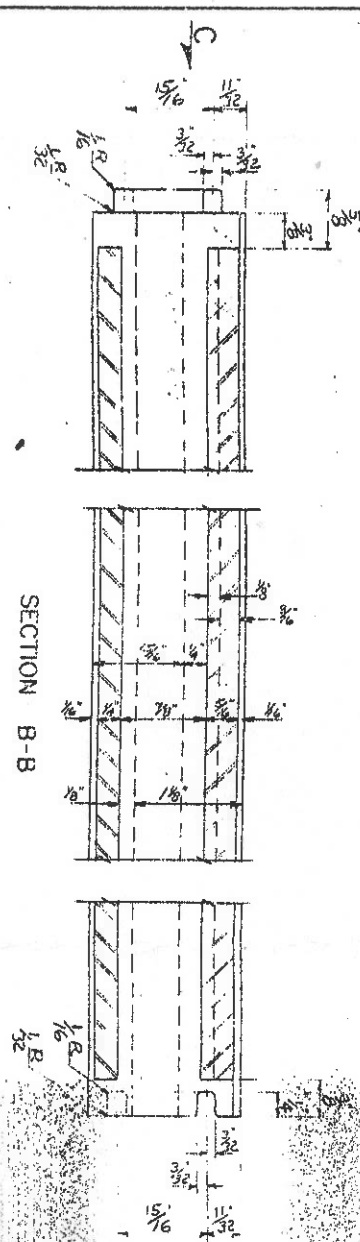
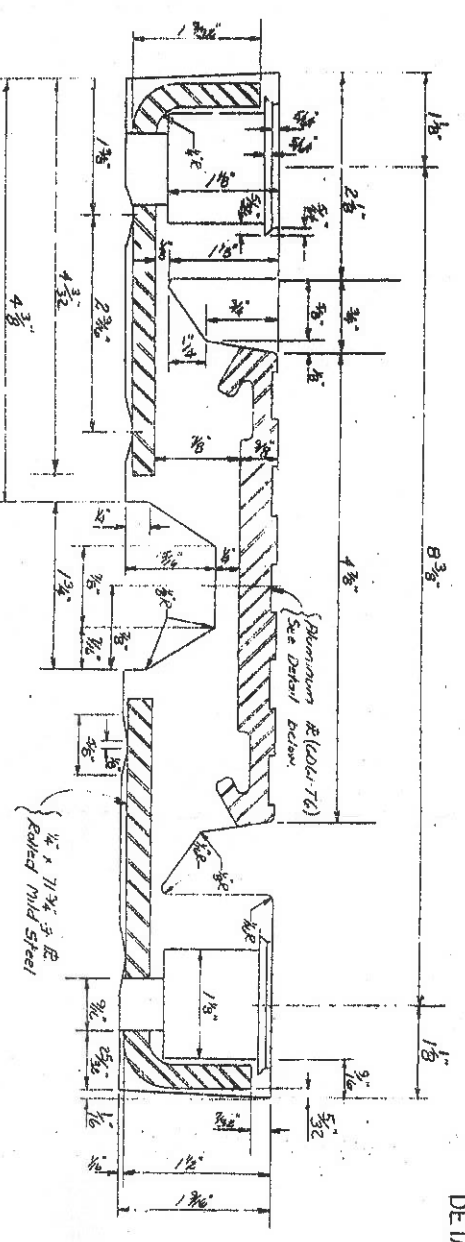
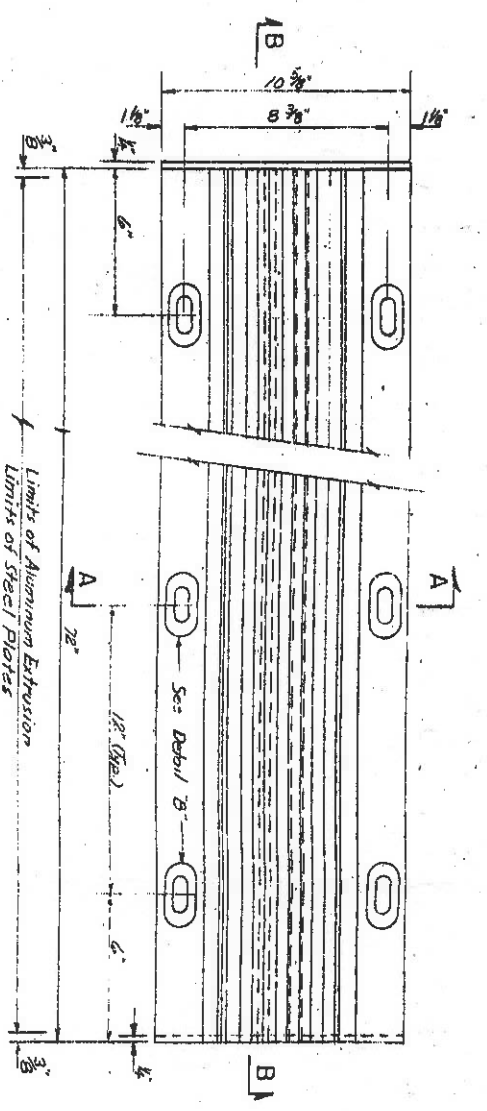
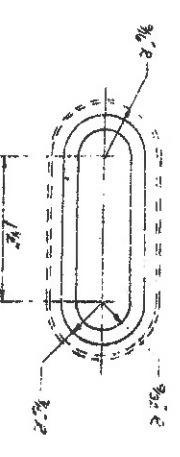
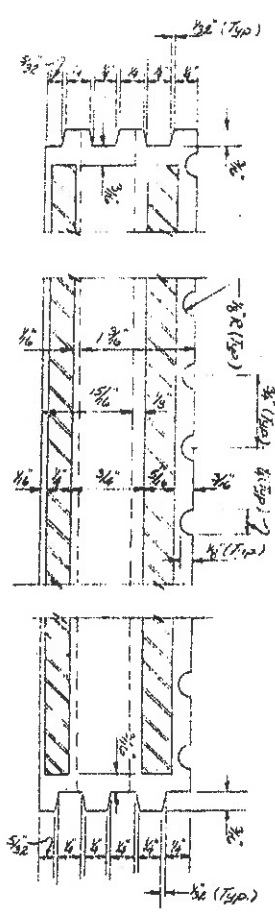
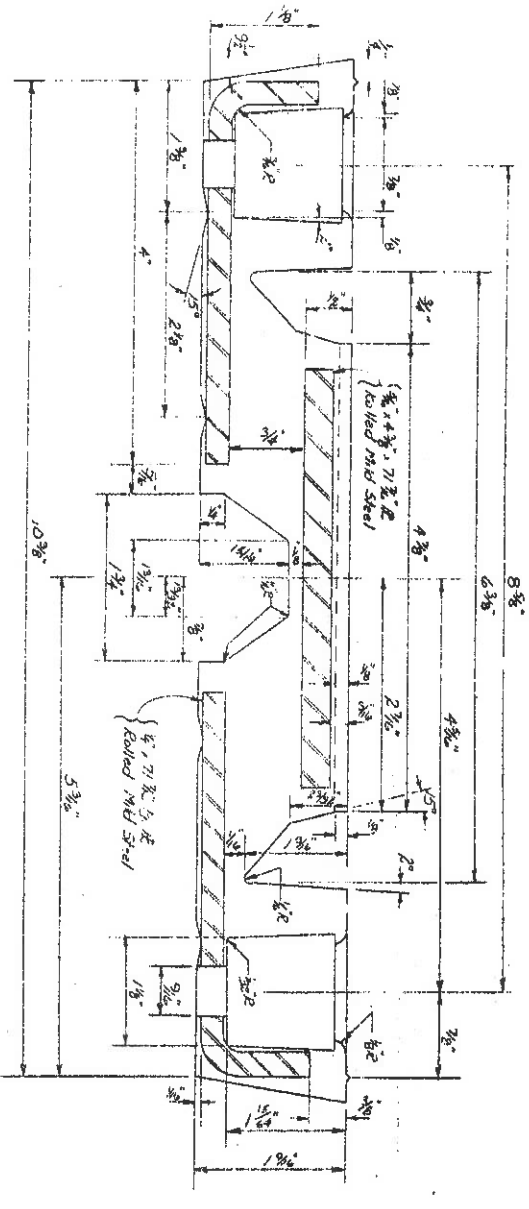
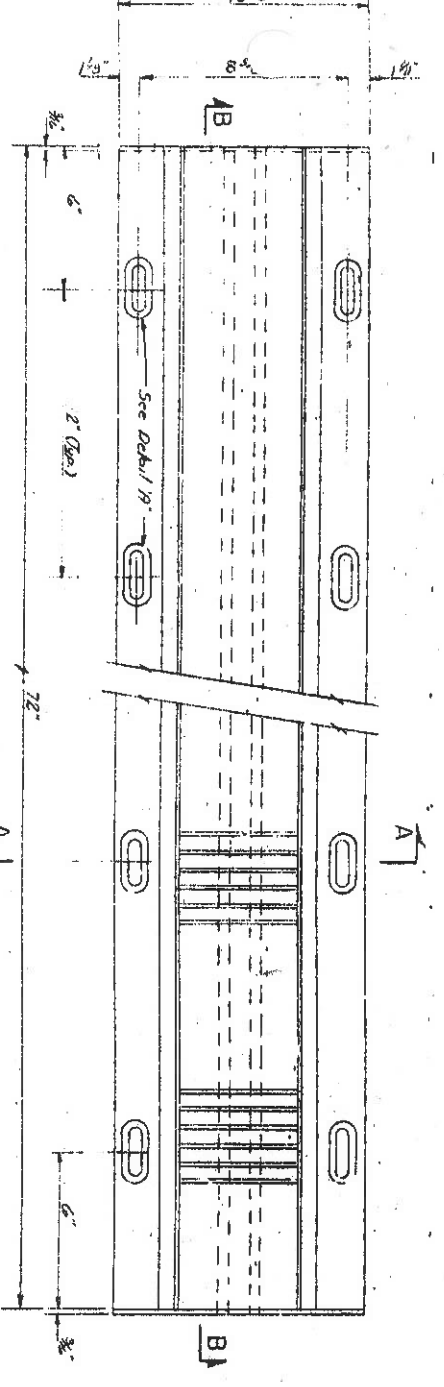
For Detail C see BDD 75-60A.
For Section B-B see BDD 75-60A.



DESIGNED BY: [Signature]
CHECKED BY: [Signature]

APPROVED
[Signature]
Signer Civil Engineer (Professional)

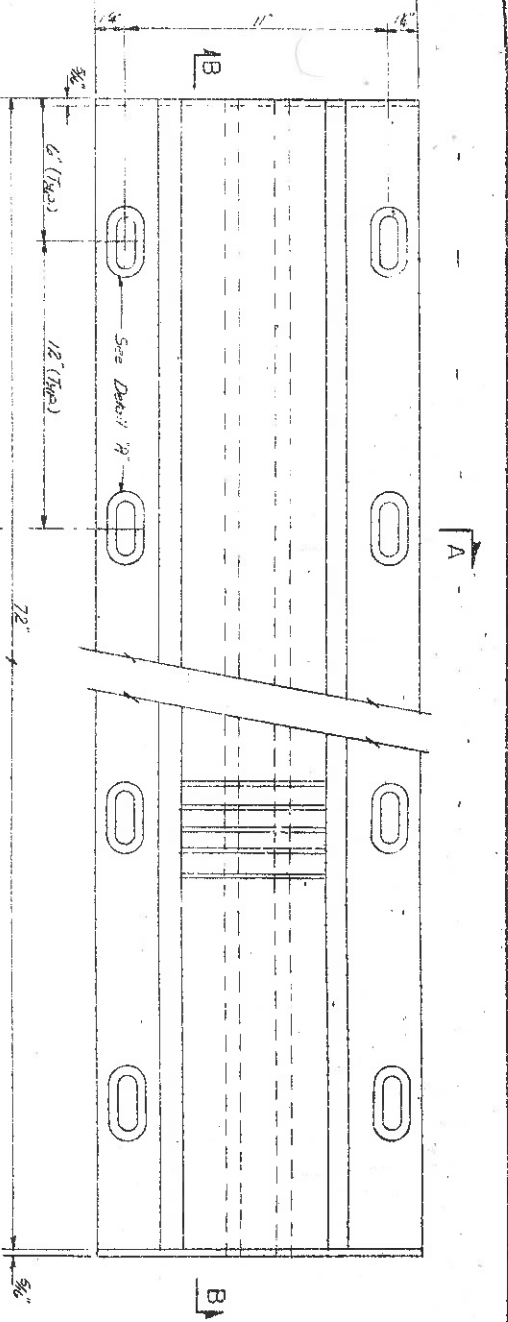
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION
ELASTOMERIC EXPANSION JOINT
AT ABUTMENT
DRAWING NO. 07



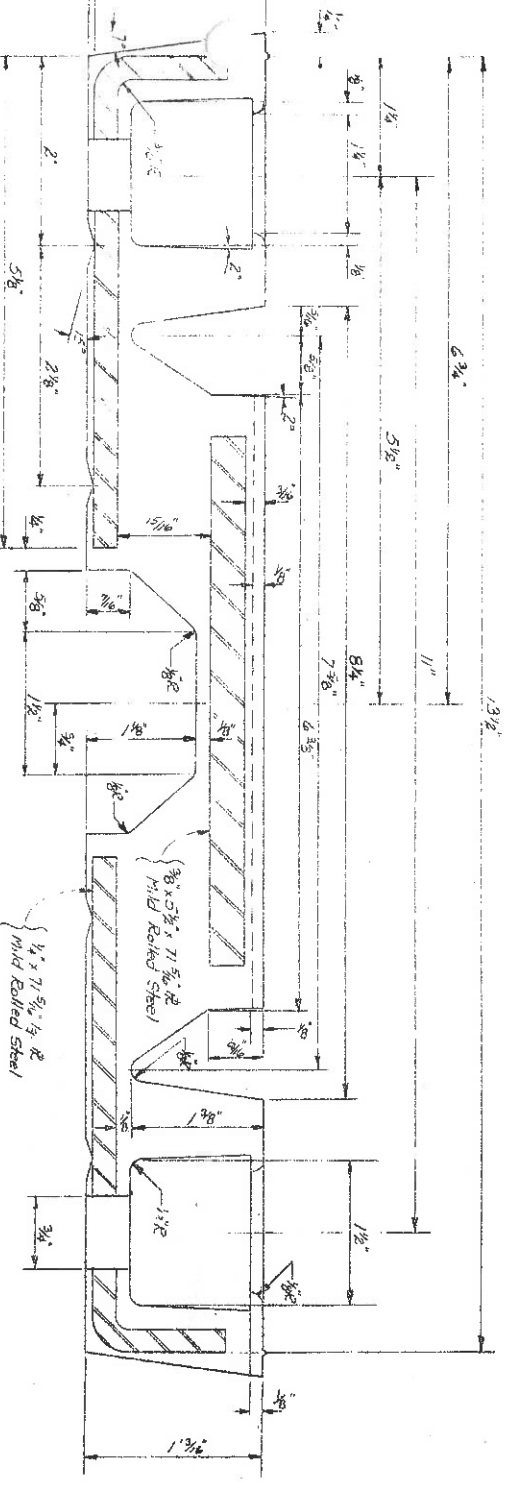
MADE BY: *Handwritten name*
 DESIGNED BY: *Handwritten name*
 REVISIONS: 9/75

APPROVED
Handwritten signature

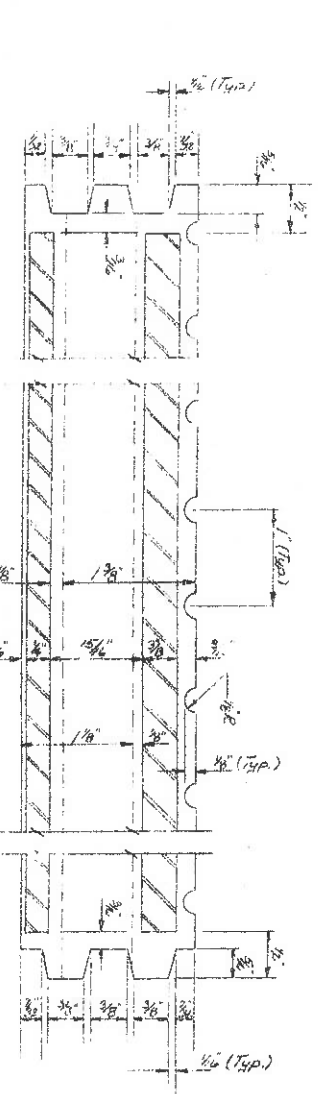
STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF CONSTRUCTION
 ALTERNATE TYPES OF ELASTOMERIC
 EXPANSION JOINTS, ITEM 15653.23
 TYPE 200B



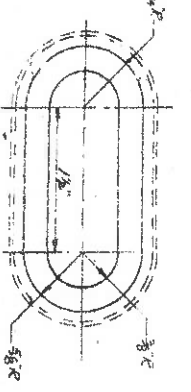
PLAN



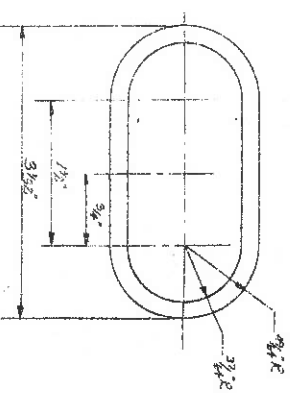
SECTION A-A



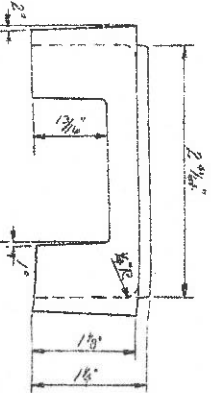
SECTION B-B



DETAIL "A"

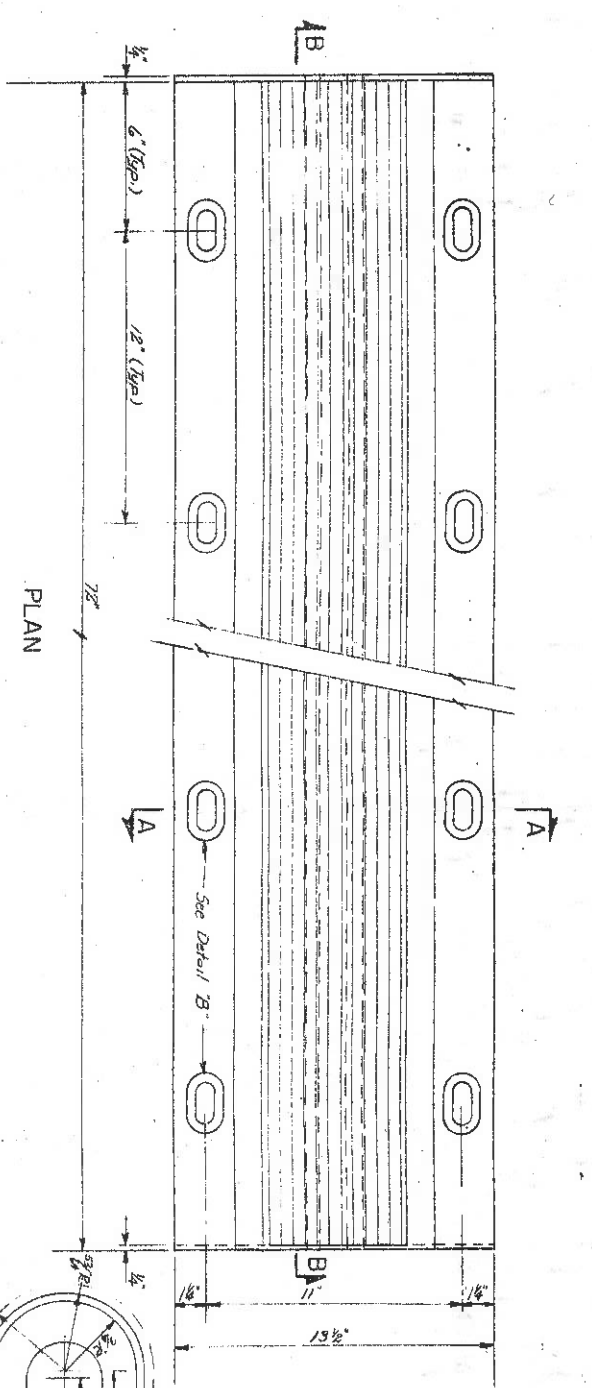


PLAN

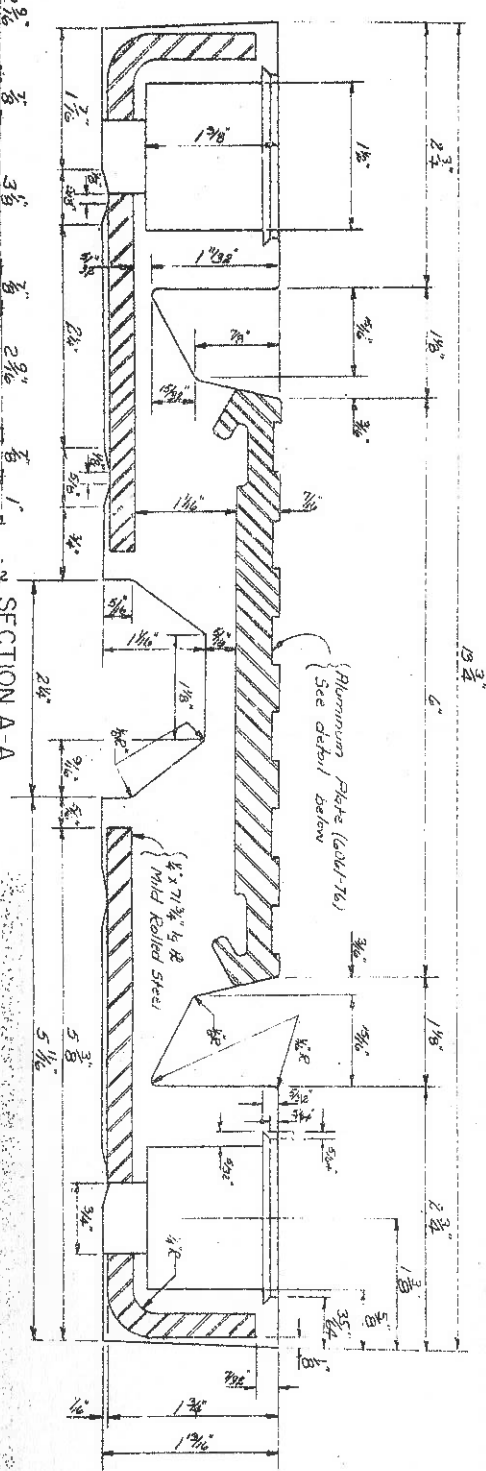


ELEVATION

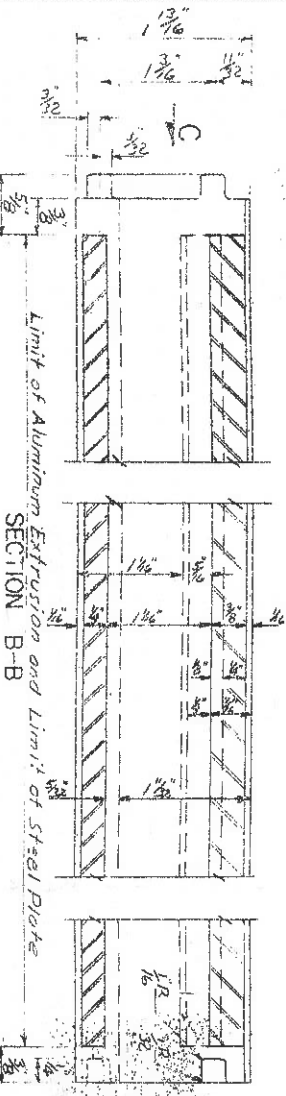
DETAIL OF CAP PLUG
TYPE 250A



PLAN

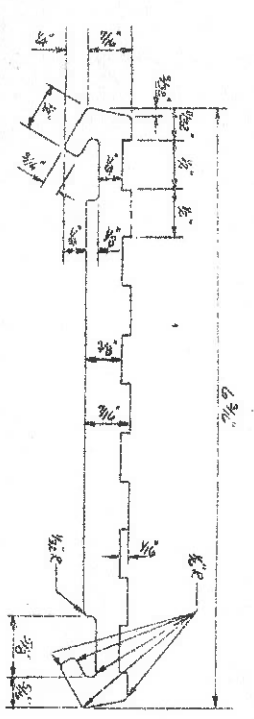


SECTION A-A

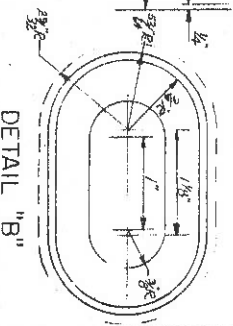


SECTION B-B

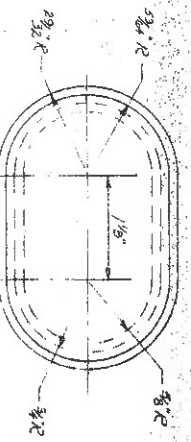
VIEW C



DETAIL OF ALUMINUM PLATE



DETAIL "B"



PLAN



ELEVATION

DETAIL OF CAP PLUG

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

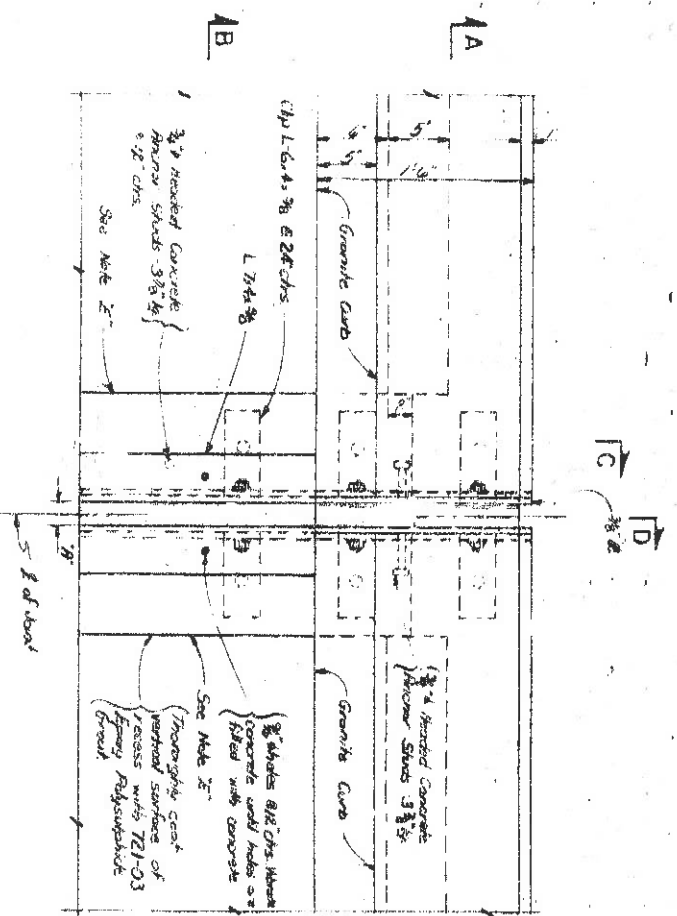
ALTERNATE TYPES OF ELASTOMERIC
EXPANSION JOINTS, ITEM 15653.24

APPROVED
10/27/75
[Signature]

TYPE 250B

MAILED BY [Signature]
REVISED 7/75

The iron reinforcement in the structural slab and the usual reinforcement in the fascia and curb are not shown on these plans.



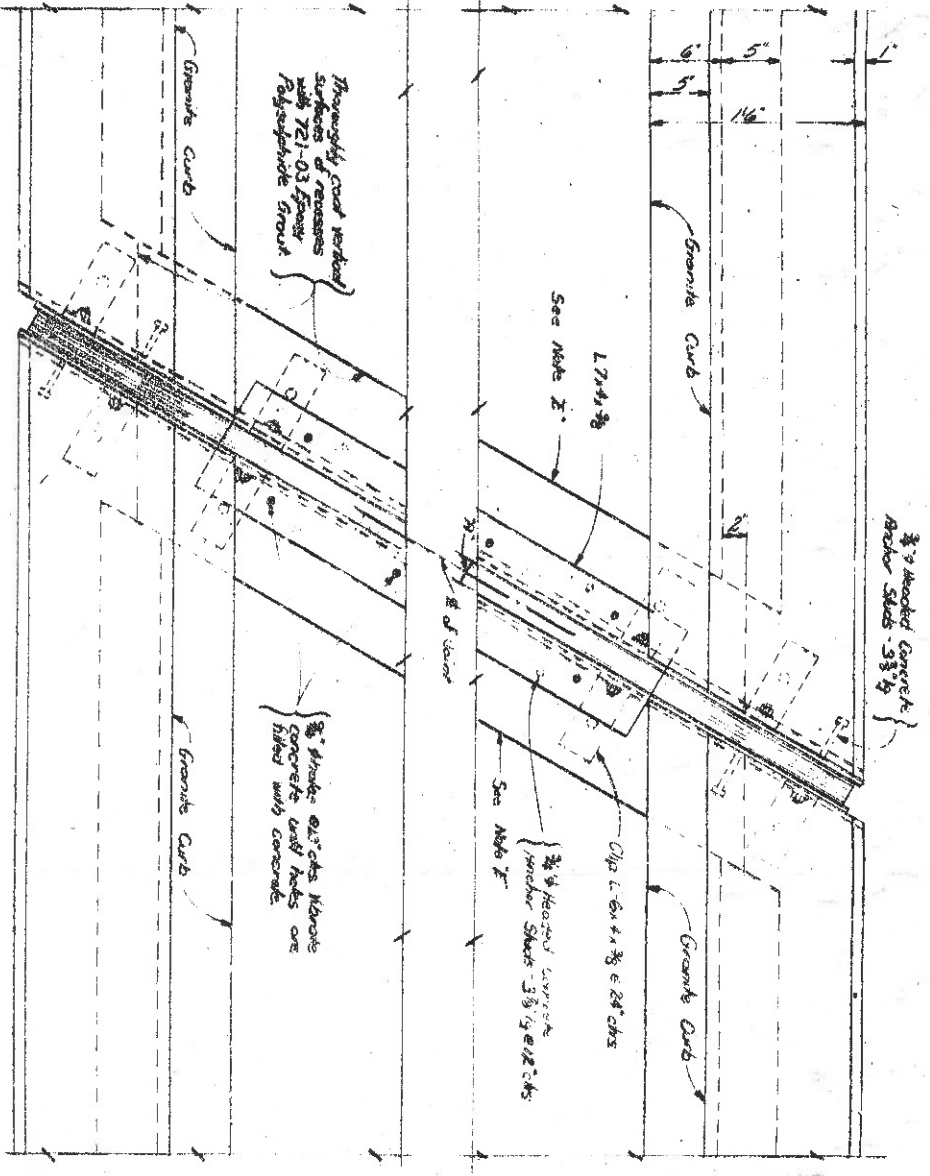
PLAN 0° SKEW

NOTE D:
This depth shall be indicated on the shop drawings and shall be such so that when the seal is compressed to 5/8 of its nominal width the top of seal shall be not less than 1/4 inch nor more than 3/8 inch below the top of roadway.

NOTE E:
The seal shall be of a proprietary type and shall be installed in accordance with the manufacturer's instructions. The seal shall be of a type which will not be required to be replaced as a result of its use. The seal shall be of a type which will not be required to be replaced as a result of its use. The seal shall be of a type which will not be required to be replaced as a result of its use.

SEALS		SEALED ARMORED JOINT	
TYPE	NOMINAL WIDTH DIA. IN. @ 60°F	TYPE	END CONNECTION
1	1 3/8"	A1	Flush End Only
2	2"	A2	Flush End 60° to 80°
3	2 1/2"	A3	Flush Over 80° to 90°
4	3"	A4	Flush Over 90° to 100°
5	3 1/2"	A5	Flush Over 100° to 120°
6	4"	A6	Flush Over 120° to 180°

Maximum skew angle: Seal End - 45° and Expansion End - 30°

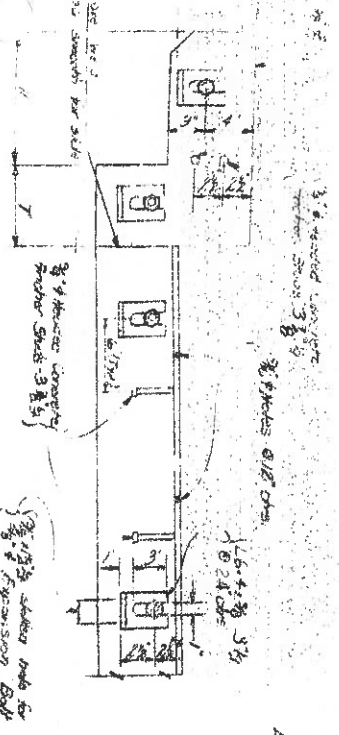


PLAN 30° MAX. SKEW

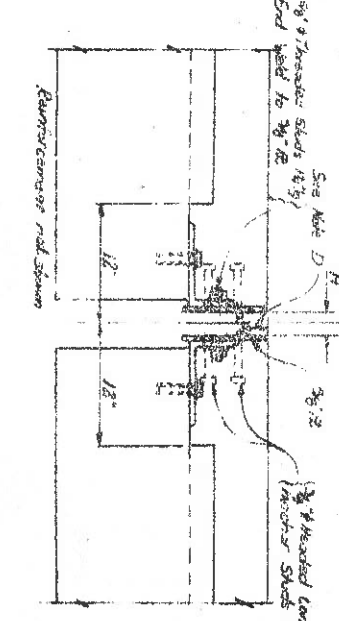
ALTERNATE SECTION

This section cut from a wide bridge beam may be substituted for the 'W' section if economically justified.

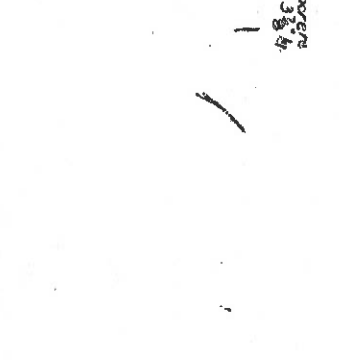
SECTION D-D



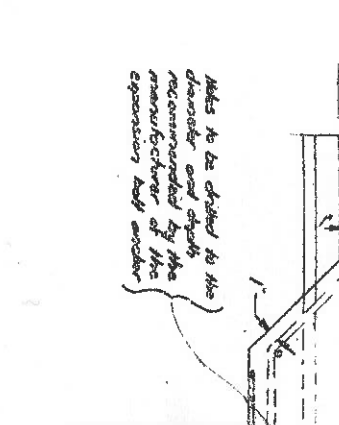
SECTION C-C



SECTION A-A



SECTION B-B



SECTION A-A

SECTION C-C

SECTION D-D

SECTION A-A

SECTION C-C

SECTION D-D

SECTION A-A

SECTION C-C

SECTION D-D

SECTION A-A

SECTION C-C

The following note shall be placed on the contract drawing showing the details of this joint:
It is desirable to have the armored joint with its preformed elastic joint seal assembled in the shop and allowed to cure for 24 hours before installation in its preformed recess in the structural slab. To ensure proper curing, the joint seal should be installed in the recess with the preformed elastic joint seal but before the concrete is placed. The joint seal should be installed in the recess with the preformed elastic joint seal but before the concrete is placed. The joint seal should be installed in the recess with the preformed elastic joint seal but before the concrete is placed.

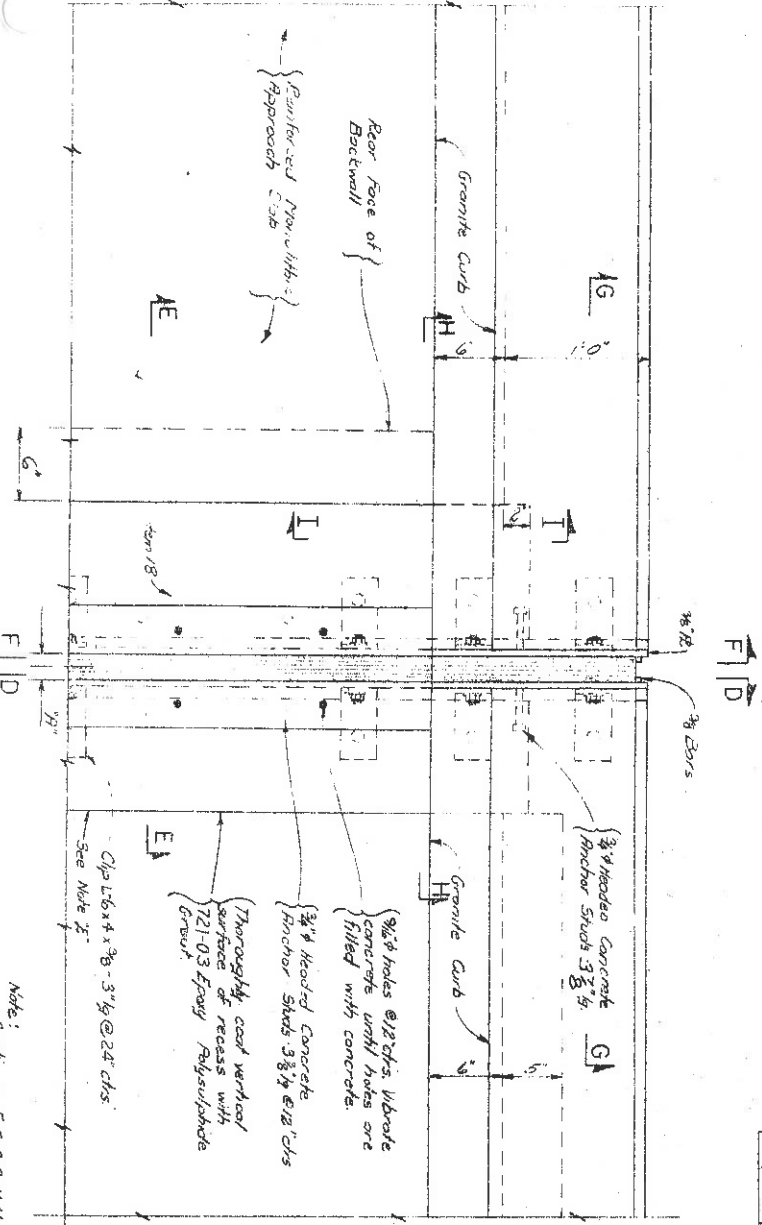
APPROVED
[Signature]

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION
DETAILS OF SEALED ARMORED JOINT
TYPE A AT PIER

NOTES
For detail of Headed Concrete Anchor Stud, see BDD 75-61.
The cost of furnishing and placing the Epoxy Polyisobutylene Grount shall be included in the unit price bid for Class A Concrete for Structures. (Remolitic Bridge Slabs)

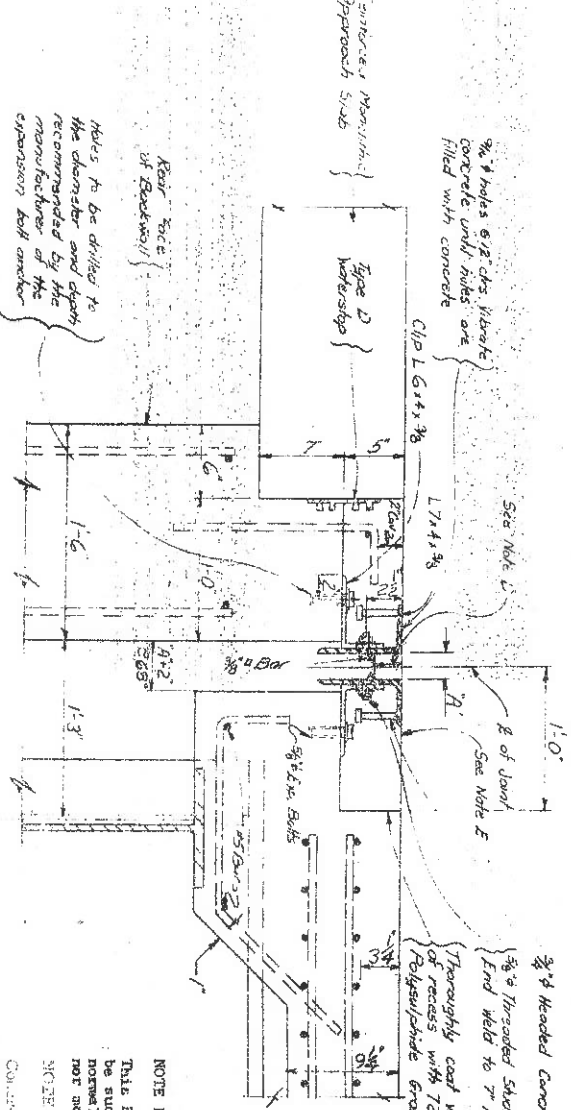
SEALS		SEALED ARMORED JOINT	
TYPE	NOMINAL WIDTH	DIM. IN @ 68°F	END CONDITION
1	1 3/4"	1"	Fixed End Only
2	2"	1 1/4"	Epoxy up to 60°
3	2 1/2"	1 3/4"	Epoxy over 60° to 75°
4	3"	2"	Epoxy over 75° to 90°
5	3 1/2"	2 1/4"	Epoxy over 90° to 105°
6	4"	2 3/4"	Epoxy over 105° to 136°

Minimum skew limits:
Fixed End - No limit
Expansion End - 30°



PLAN 0° SKEW

Note:
Sections F-F, G-G, H-H and I-I are shown on BDD 75-63
Section D-D is shown on BDD 75-61

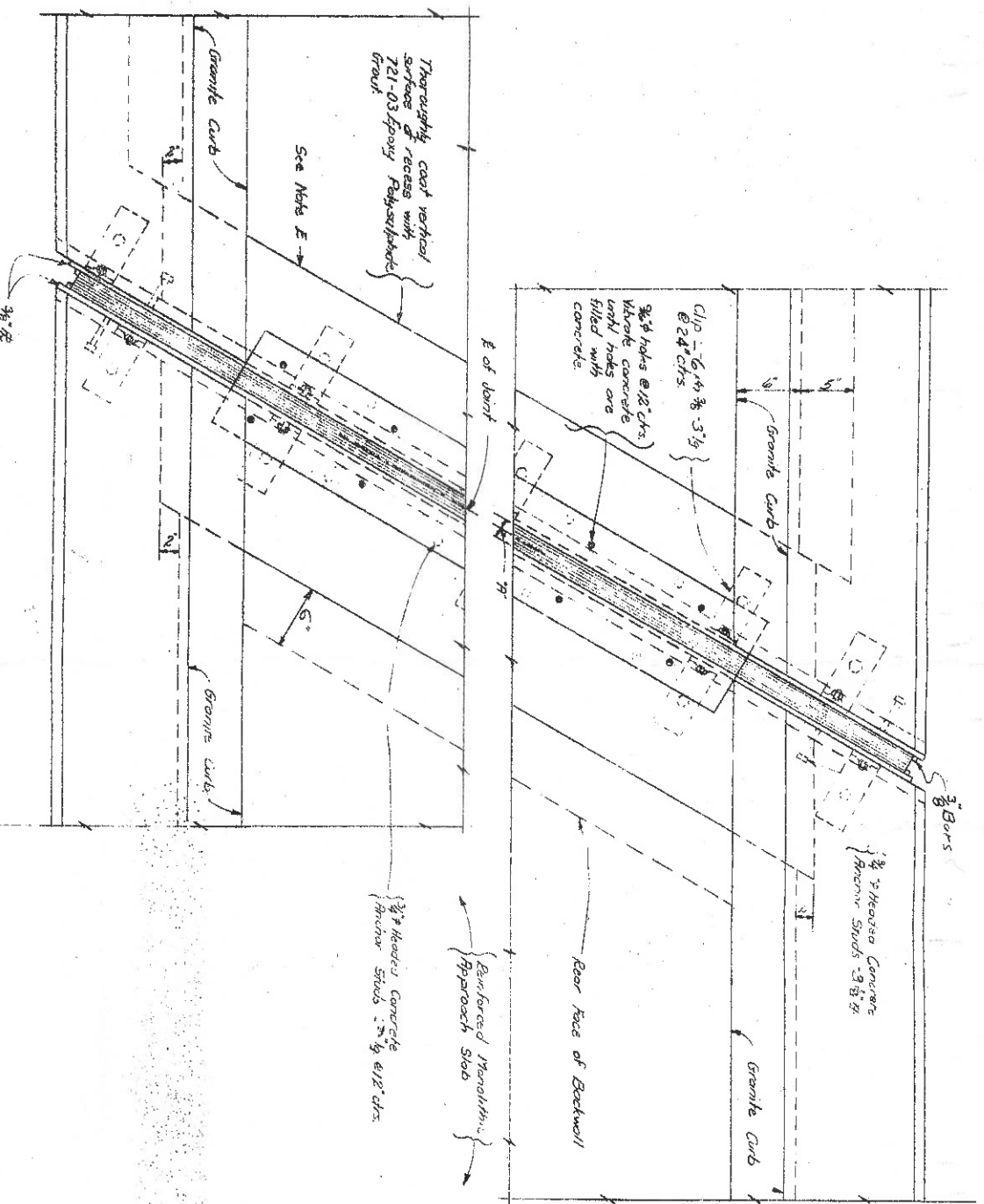


SECTION E-E

NOTE D:
This Depth shall be indicated on the shop drawings and shall be such so that when the seal is compressed to 50% of its normal width the top of seal shall be not less than 1/4\"/>

NOTE E:

Concrete in process on approach slabs provided for installation of seal. Also a reinforced joint shall comply with the specifications for Class A Concrete for Structures (Monolithic Bridge Slabs). The cost of furnishing and placing the Epoxy Polyisulphide Grout shall be included in the unit price bid for Class A Concrete for Structures (Monolithic Bridge Slabs).



PLAN 30° MAX. SKEW

NOTES

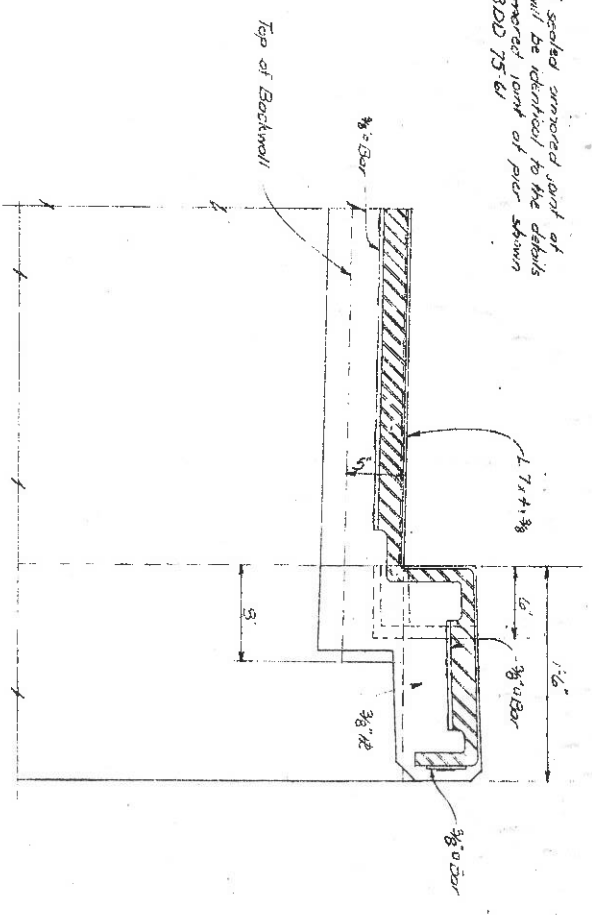
For detail of Headed Concrete Anchor Stud, see BDD 75-63.

The cost of furnishing and placing the Epoxy Polyisulphide Grout shall be included in the unit price bid for Class A Concrete for Structures (Monolithic Bridge Slabs).

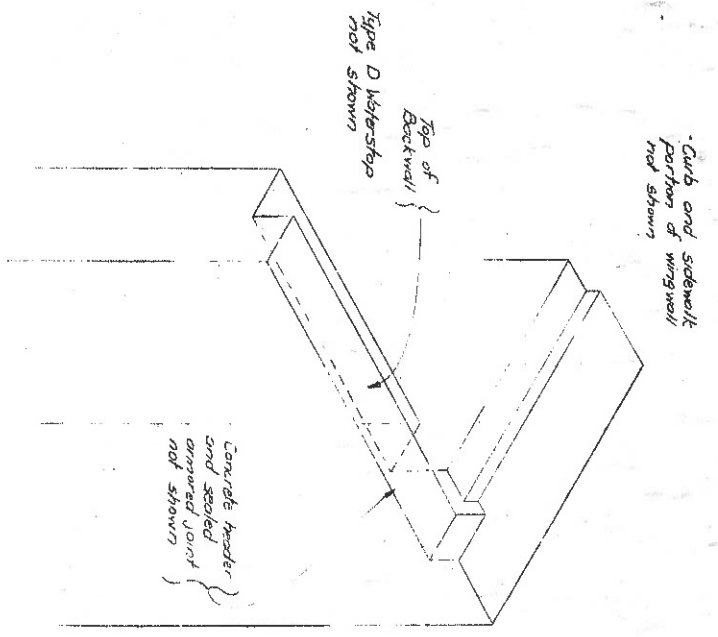
The following note shall be placed on the contract drawing showing the details of this joint:
It is desirable to have the armored joint with its reinforced elastic joint sealers assembled in the shop and delivered to the job site all set for installation. The sealers shall be installed in the groove in the concrete slab. To ensure that the armored joint cannot be installed in the groove in the concrete slab, the sealers shall be installed in the groove in the concrete slab.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION
DETAILS OF SEALED ARMORED JOINT
TYPE A AT ABUTMENT

1/2" dia of sealed armored joint of abutment will be identical to the details of sealed armored joint of pier shown on Sheet BDD 75-61

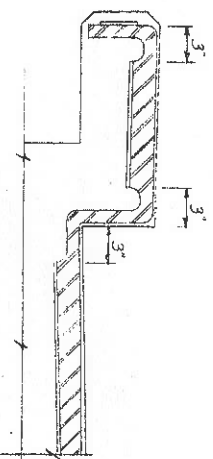
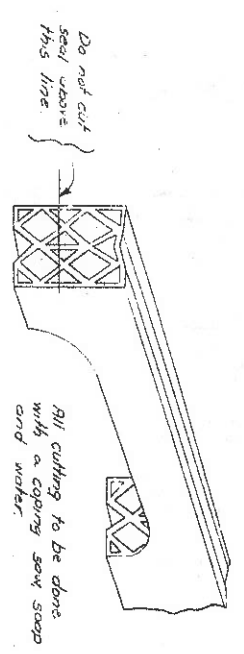


SECTION F-F

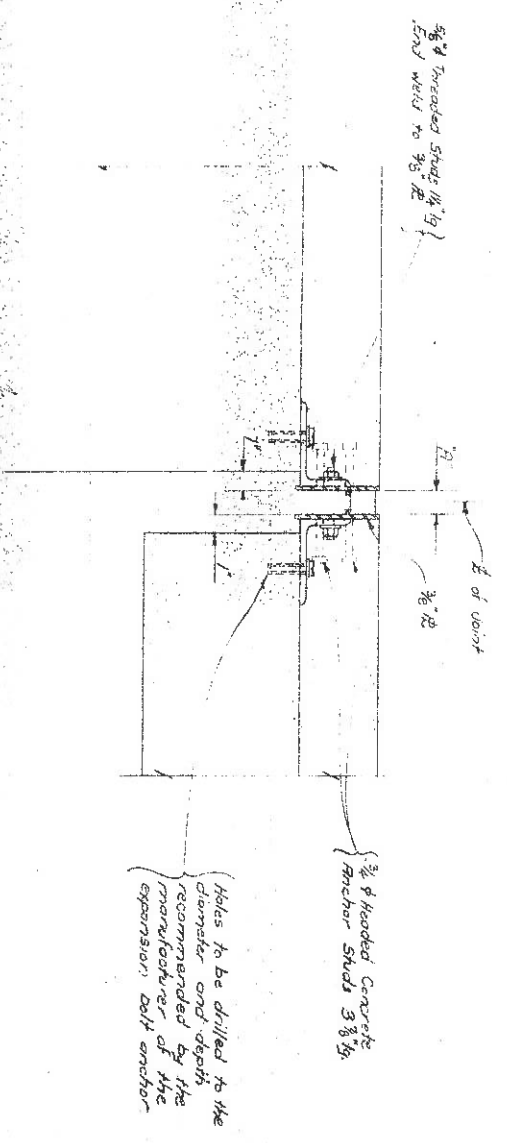


PARTIAL ISOMETRIC OF ABUTMENT

The sealer shall be supplied in one piece for the full length of joint. Splices will not be permitted when the length of this piece is less than 50 feet. For lengths up to 100 feet one shop splice will be permitted. For lengths in excess of 100 feet shop splices may be placed at approximately 50 foot intervals.



DETAIL FOR CUTTING AND BENDING SEAL

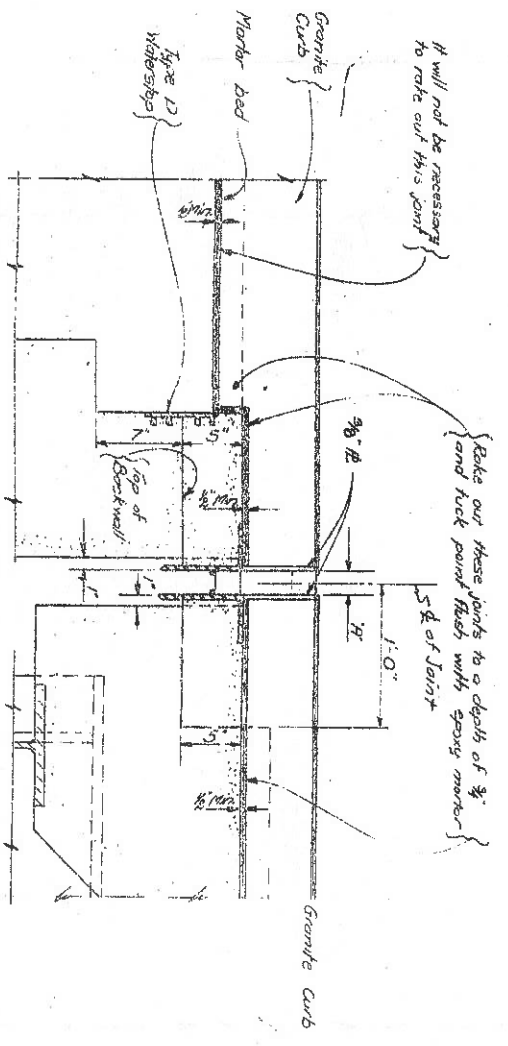


SECTION G-G

Reinforcement and Structural Steel not shown.

3/8\"/>

Holes to be drilled to the diameter and depth recommended by the manufacturer of the expansion bolt anchor.



SECTION H-H

Reinforcement not shown.

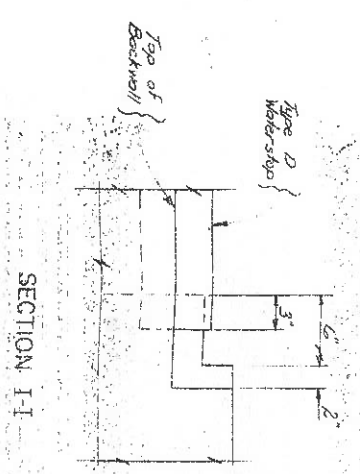
It will not be necessary to rake out this joint.

Take out these joints to a depth of 3/4\"/>

5/8\"/>

1/2\"/>

1'-0\"/>



SECTION I-I

Concrete curb, sidewalk and sealed armored joint not shown.

APPROVED

[Signature]

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF CONSTRUCTION
 DETAILS OF SEALED ARMORED JOINT
 TYPE A AT ABUTMENT