TO:

MAIN OFFICE

REGIONAL OFFICES

SUPERSEDED BY EI 75-070
EFFECTIVE 10/20/1975

ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

SUBJECT: BDD 73-60, 73-62 and 73-63

Subject Code: 7.35-2-60, 62, 63

Distribution: [G] Main Office [G] Regions [ ] Special

Code: EI 73-61

Date: Aug. 22, 1973

Supersedes: BDD 72-60, 72-62 and 72-63

APPROVED: R. M. Kamp

Deputy Chief Engineer (Structures)

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

1. The 4" x 7" x 3/8" clip angles are spaced at 24" ctrs. instead of 12" ctrs.

2. The size of the concrete anchor was changed from 5/8"Ø - 3½" lg. to 3/4"Ø - 3-7/8" lg.

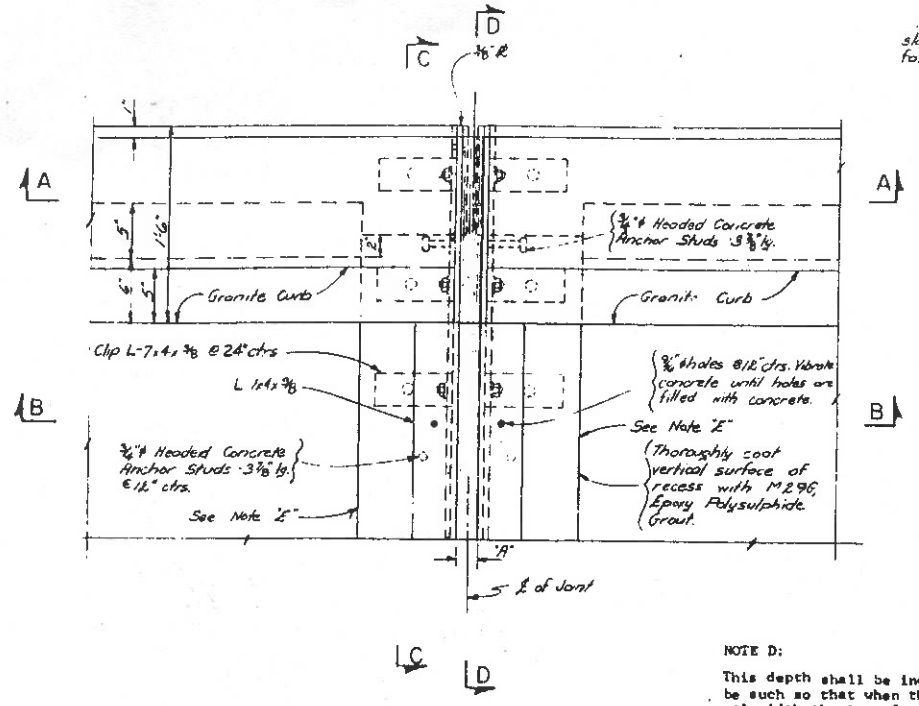
3. The details for the cutting and bending of the seal was added. Also, the detail for the concrete anchor was added.

These sheets shall be effective immediately and shall also be used on structures already detailed, if the changes can be made without extensive revisions.

Filed with S.S. Sheets

BDD 73-61

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



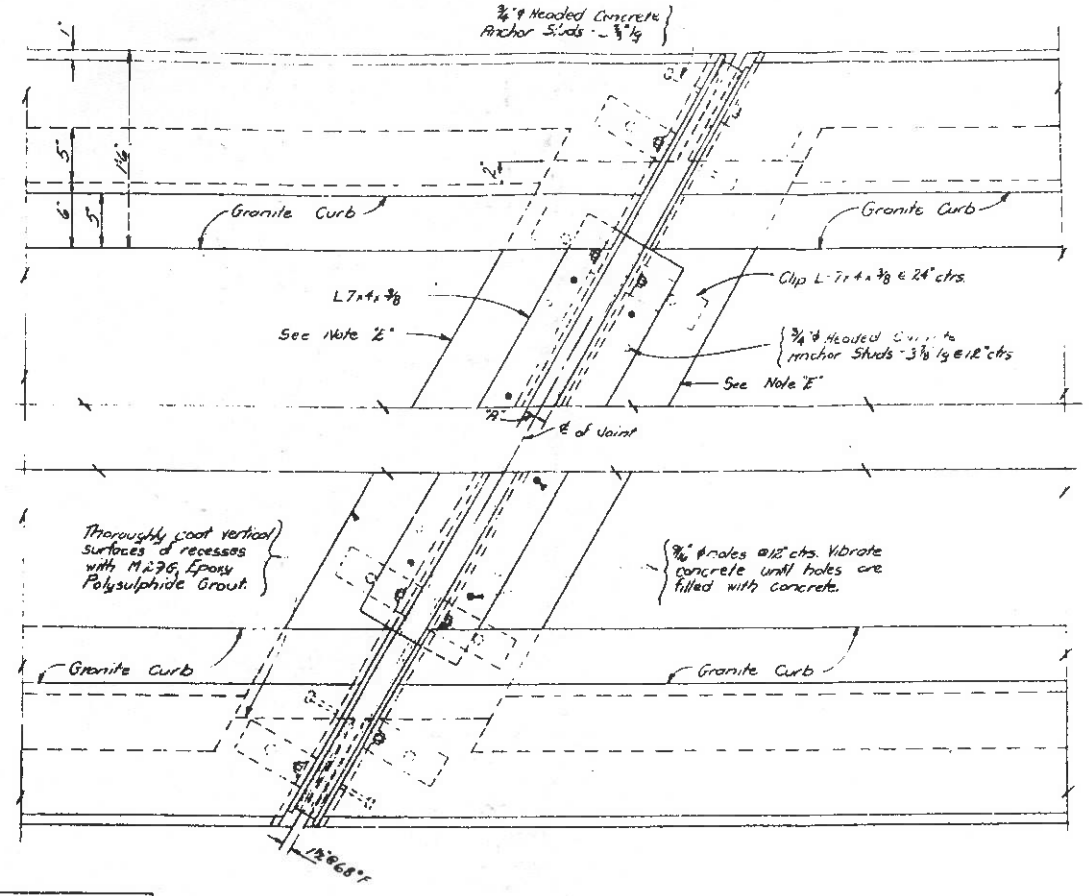
PLAN 0° SKEW

NOTE D:

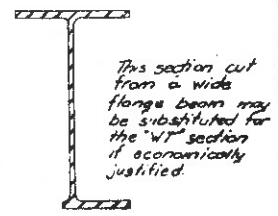
This depth shall be indicated on the shop drawings and shall be such so that when the seal is compressed to 50% of its normal width the top of seal shall be not less than 1/4" nor more than 3/4" below the top of roadway.

NOTE E:

Concrete in recesses in superstructures provided for installing the sealed armored joints shall comply with the specifications for Class A Concrete for Structure (Monolithic Bridge Slab) except that machine finishing will not be required. No additional payment will be made for furnishing and placing this concrete as this quantity lies within the limits of the area to be paid for under the item Class A Concrete for Structures (Monolithic Bridge Slab).



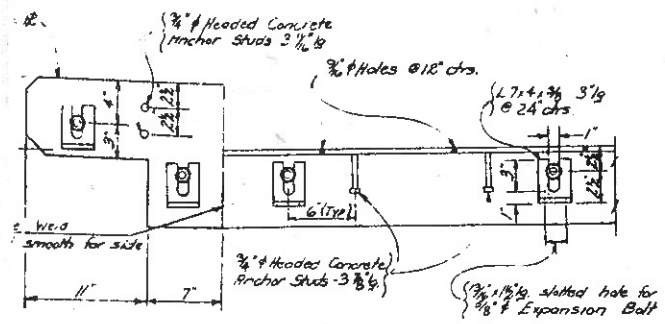
PLAN 30° MAX. SKEW



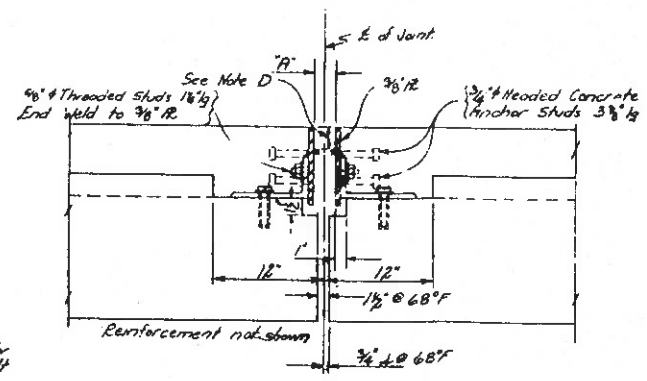
ALTERNATE SECTION

SEALS			SEALED ARMORED JOINT	
TYPE	NOMINAL WIDTH	DIM. "A" @ 68°F	TYPE	END CONDITION
1	1¾"	1"	A1	Fixed End Only
2	2"	1⅜"	A2	Exp. up to 60°0"
3	2½"	1⅝"	A3	Exp. Over 60°0" to 75°0"
4	3"	1⅞"	A4	Exp. Over 75°0" to 90°0"
5	3½"	2⅛"	A5	Exp. Over 90°0" to 105°0"
6	4"	2⅜"	A6	Exp. Over 105°0" to 120°0"

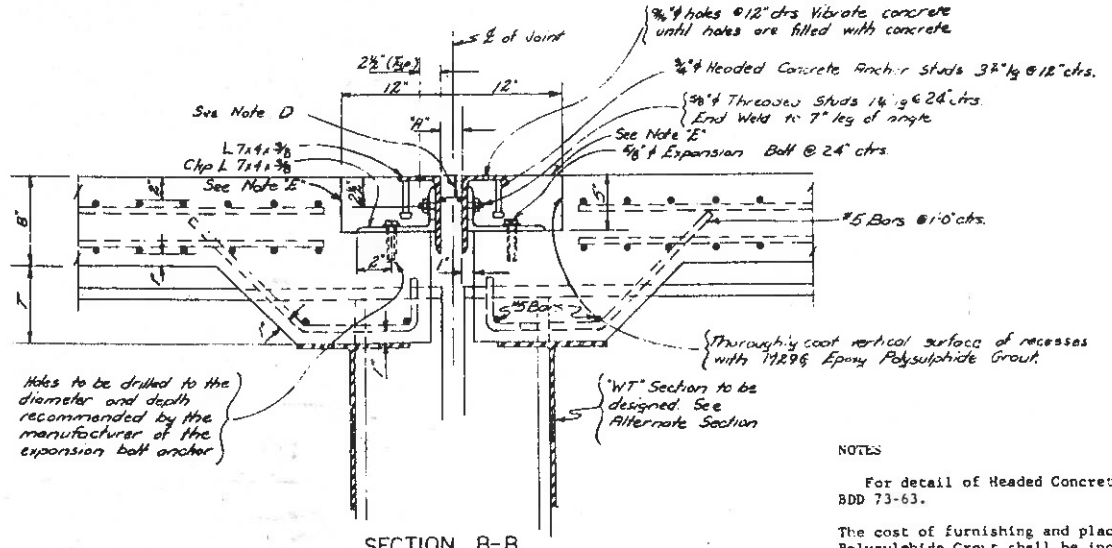
Maximum skew limits:
Fixed End - No limit
Expansion End - 30°



SECTION C-C
STEEL ONLY SHOWN



SECTION A-A



SECTION B-B

NOTES

For detail of Headed Concrete Anchor Stud, see BDD 73-63.

The cost of furnishing and placing the Epoxy Polysulphide Grout shall be included in the unit price bid for class A Concrete for Structures. (Nonolithic 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 preformed elastic joint sealer assembled in the shop and delivered to the job site all set for installation in its preformed recess in the structural slab. In cases where the armored joint cannot be assembled in the shop, due to its excessive length causing shipping problems, the joint shall be sealed with the preformed elastic joint sealer before the structure is opened to traffic. Including con-

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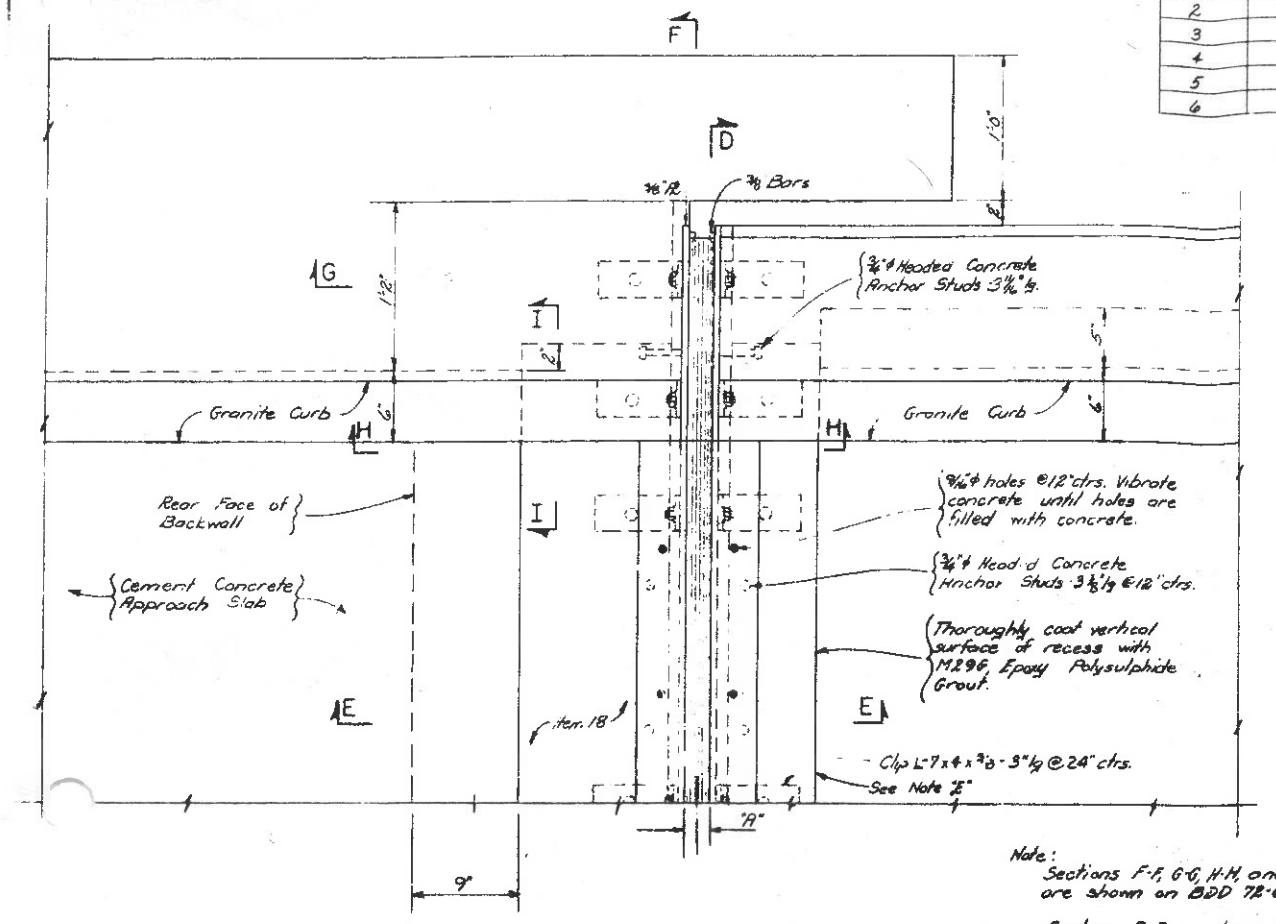
DETAILS OF SEALED ARMORED JOINT TYPE A AT PIER

BDD 73-62

SEALS			SEALED ARMORED JOINT	
TYPE	NOMINAL WIDTH	DIM. "A" @ 68°F	TYPE	END CONDITION
1	1¾"	1"	A1	Fixed End Only
2	2"	1 3/16"	A2	Exp up to 60'-0"
3	2½"	1½"	A3	Exp Over 60'-0" to 75'-0"
4	3"	1¾"	A4	Exp Over 75'-0" to 90'-0"
5	3½"	2 1/16"	A5	Exp Over 90'-0" to 105'-0"
6	4"	2 3/16"	A6	Exp Over 105'-0" to 136'-0"

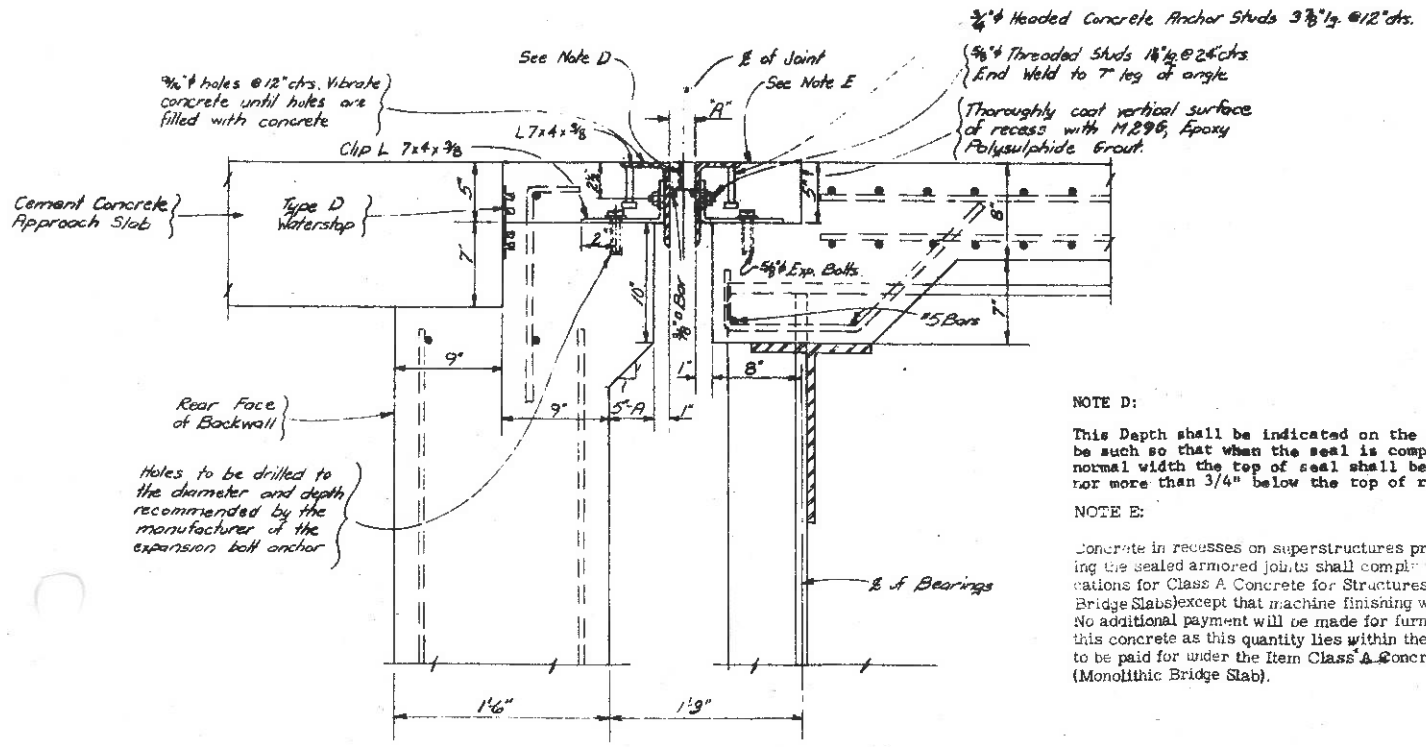
Maximum skew limits:
Fixed End - No limit
Expansion End - 30°



PLAN 0° SKEW

Note:
Sections F-F, G-G, H-H, and I-I are shown on BDD 72-63.

Section D-D is shown on BDD 73-61



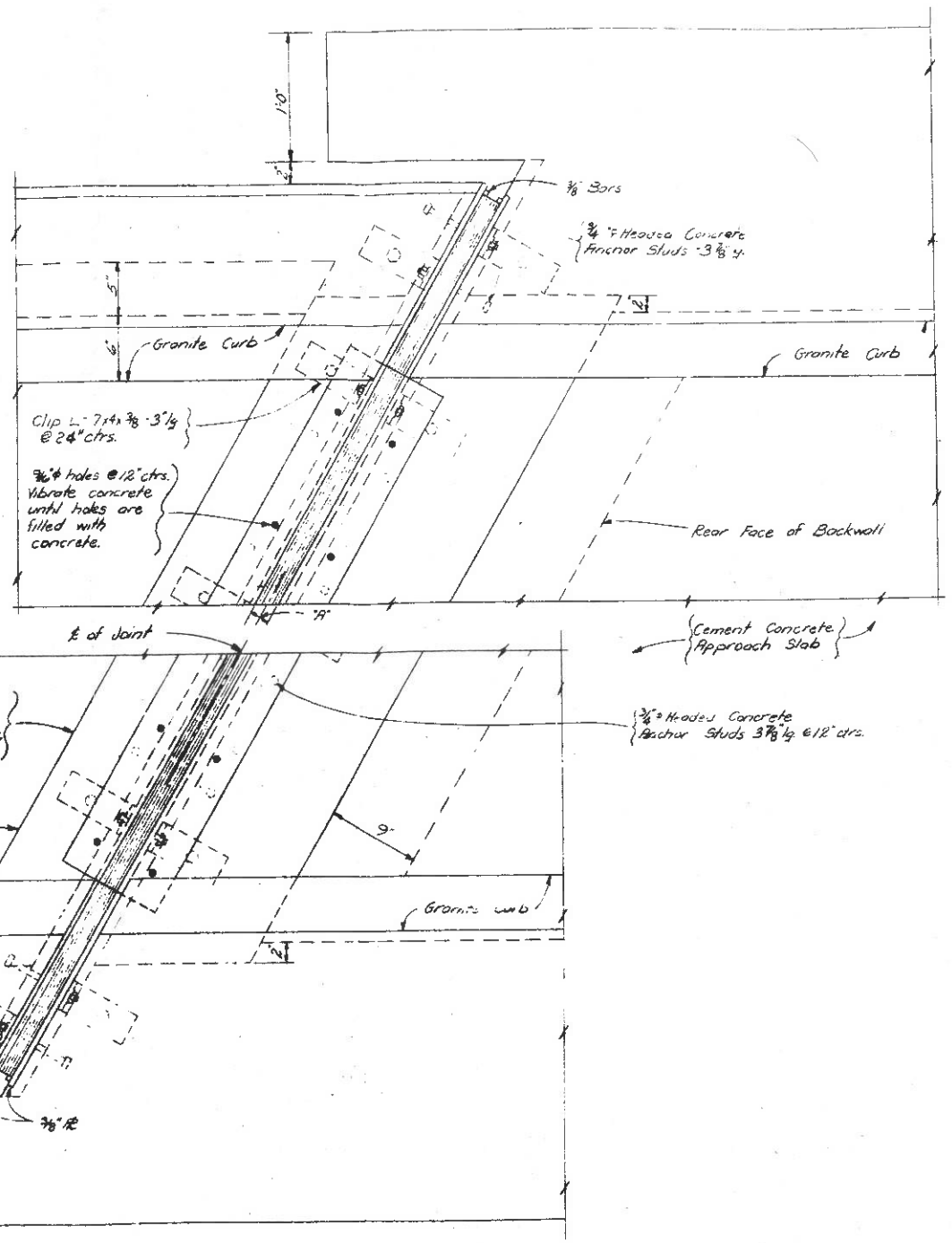
SECTION E-E

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" nor more than 3/4" below the top of roadway.

NOTE E:

Concrete in recesses on superstructures provided for installing the sealed armored joints shall comply with the specifications for Class A Concrete for Structures (Monolithic) Bridge Slabs except that machine finishing will not be required. No additional payment will be made for furnishing and placing this concrete as this quantity lies within the limits of the area to be paid for under the Item Class A Concrete for Structures (Monolithic Bridge Slab).



PLAN 30° MAX. SKEW

NOTES

For detail of Headed Concrete Anchor Stud, see BDD 73-63.

The cost of furnishing and placing the Epoxy Polysulphide 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 preformed elastic joint sealer assembled in

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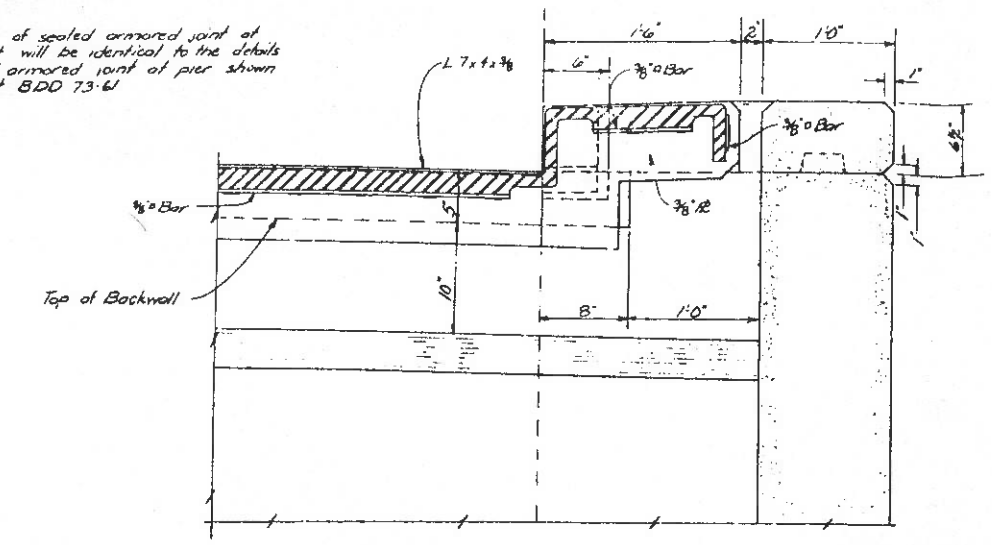
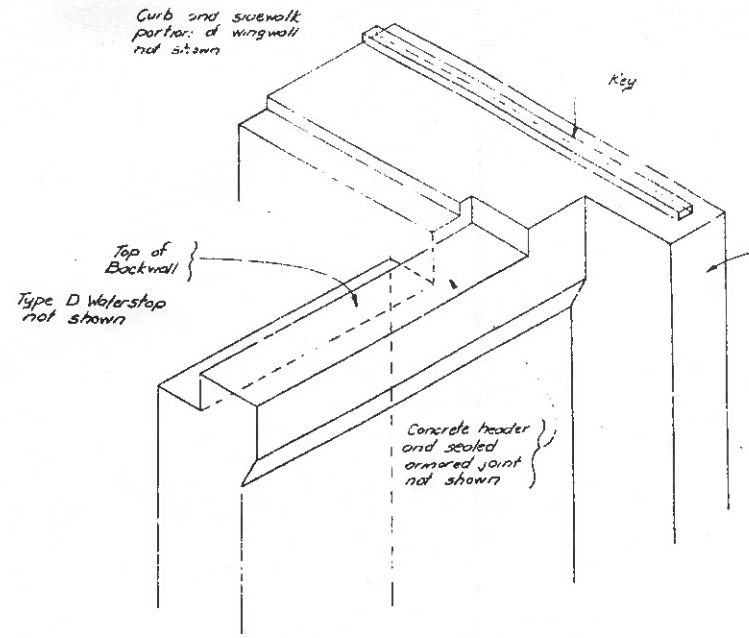
DETAILS OF SEALED ARMORED JOINT

BDD 73-63

Details of sealed armored joint at abutment will be identical to the details of sealed armored joint of pier shown on Sheet BDD 73-61

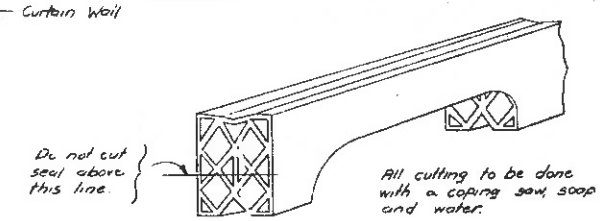


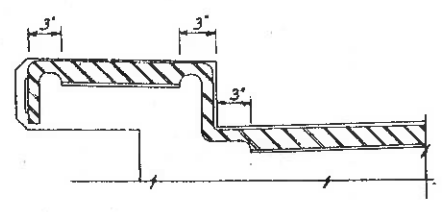
SECTION F-F



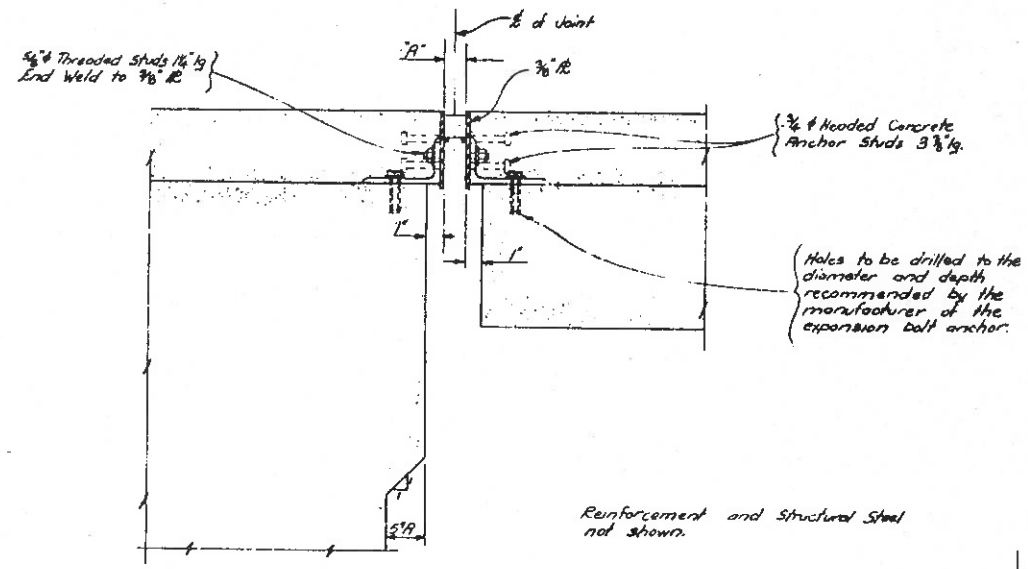
PARTIAL ISOMETRIC OF ABUTMENT

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.

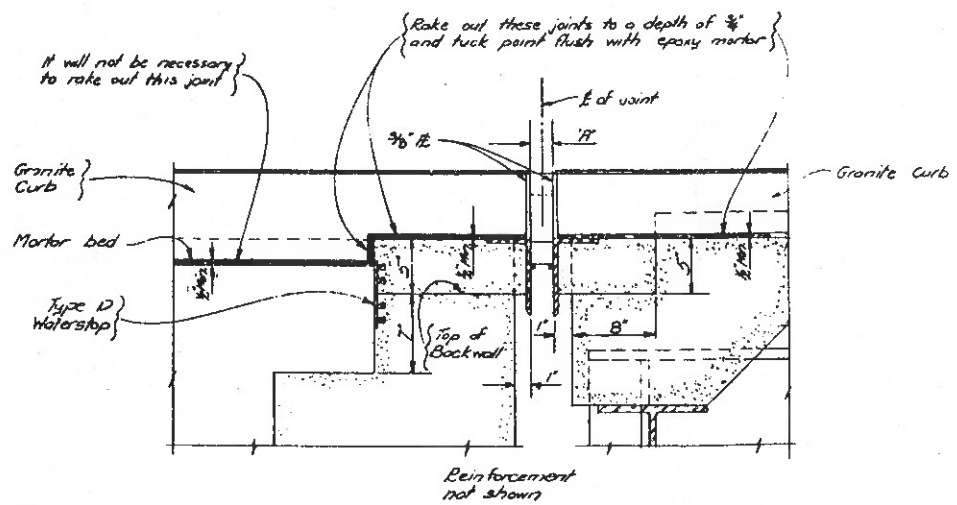




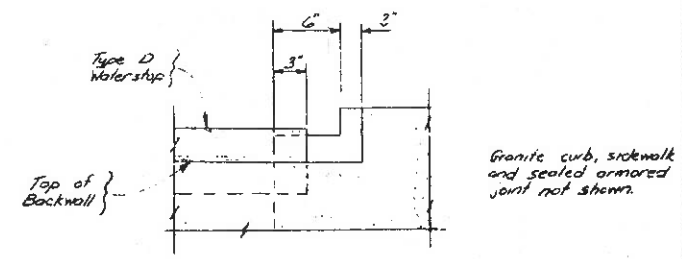
DETAIL FOR CUTTING AND BENDING SEAL



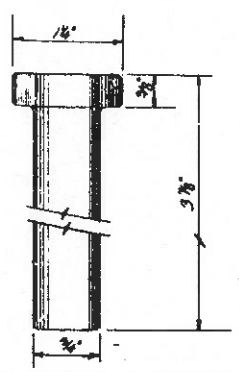
SECTION G-G



SECTION H-H



SECTION I-I



DETAIL OF HEADED CONCRETE

APPROVED
7/31/73
R.M. Knapp

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DETAILS OF SEALED ARMORED JOINT TYPE A AT ABUTMENT