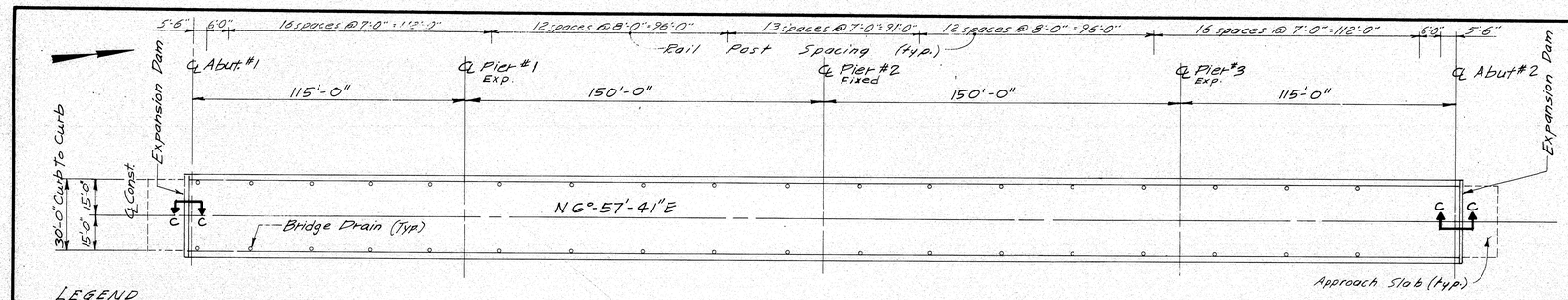


LEGEND

- Existing concrete (to remain)
- Existing concrete or curb (to be removed & rebuilt)
- Existing granite (to remain)
- Existing concrete (to be removed)

I-95 SOUTHBOUND OVER PISCATAQUIS RIVER (6069)

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-1(133)	2A	34
		IRG-95-1(134)		

SPECIFICATIONS

DESIGN: LOAD FACTOR DESIGN PER AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1983, AND INTERIM SPECIFICATIONS THROUGH 1985.

CONTRACT: STATE OF MAINE, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS HIGHWAYS AND BRIDGES, REVISION OF JAN. 1984.

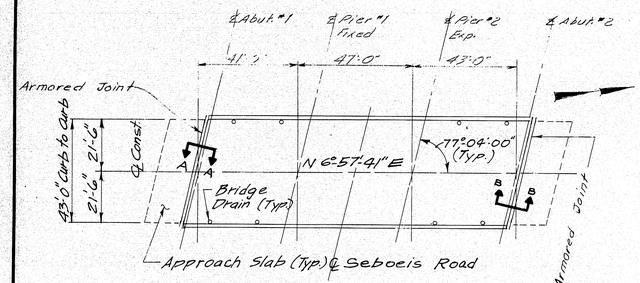
MATERIALS: CONCRETE--CLASS AA
REINFORCING STEEL--ASTM A615, GRADE 60.

BASIC DESIGN STRESSES: CONCRETE--f'c = 3,000 PSI;
REINFORCING STEEL--fy = 60,000 PSI.

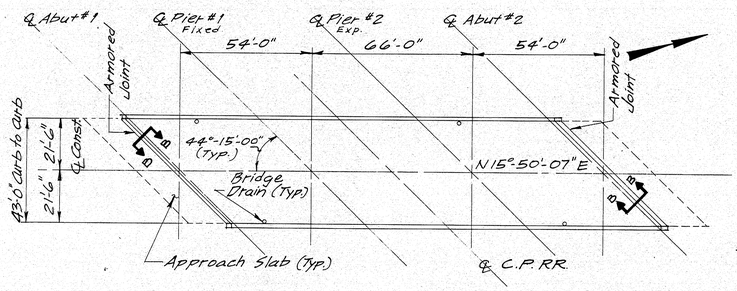
PLANS OF THE EXISTING BRIDGES ARE AVAILABLE FOR THE CONTRACTOR'S REFERENCE AT THE BRIDGE DESIGN OFFICE IN AUGUSTA. THE PLANS ARE REPRODUCTIONS OF ORIGINAL DRAWINGS AS PREPARED FOR THE CONSTRUCTION OF THE BRIDGES AND IT IS VERY UNLIKELY THAT THE PLANS WILL SHOW ANY CONSTRUCTION FIELD CHANGES OR ANY ALTERATIONS WHICH MAY HAVE BEEN MADE TO THE BRIDGES DURING THEIR LIFE SPAN.

INDEX OF SHEETS

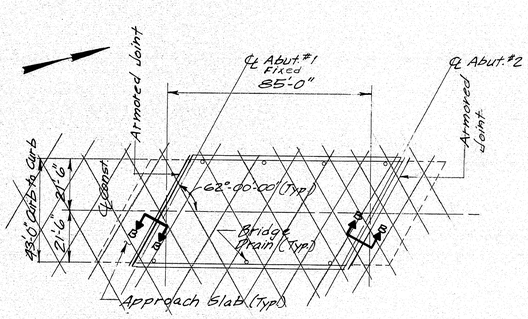
AS BUILT Revised & Issued 3-2-92



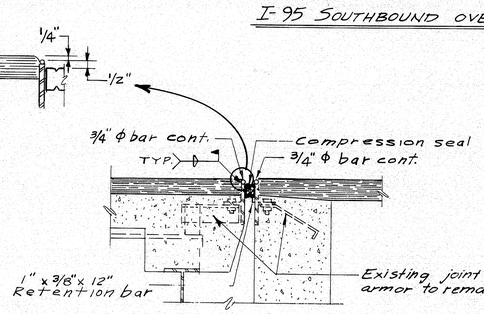
I-95 SOUTHBOUND OVER SEBOEIS ROAD (6070)



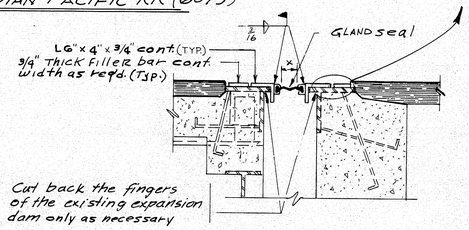
I-95 SOUTHBOUND OVER CANADIAN PACIFIC RR (6075)



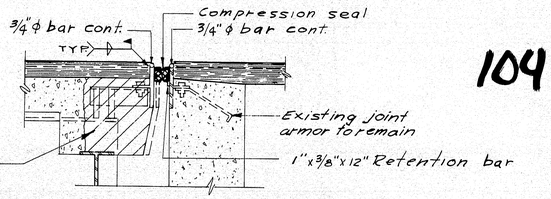
I-95 NORTHBOUND OVER SALMON STREAM (6164)



SECTION A-A



SECTION C-C

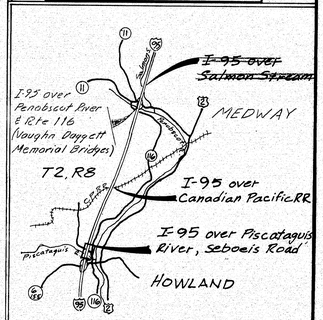


SECTION B-B

104-144

STATE OF MAINE
BRUCE C. HASKELL
2659
REGISTERED PROFESSIONAL ENGINEER

CARROLL E. TAYLOR & ASSOCIATES
CONSULTING ENGINEERS
410 SUMMER STREET
AUBURN MAINE



LOCATION MAP

0 5 10 15 20
Scale in Miles

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95 SOUTHBOUND
OVER
Piscataquis River, Seboeis Road, Canadian Pacific RR
~~INTERSTATE 95 NORTHBOUND OVER Salmon Stream~~
HOWLAND - T2 R8 - MEDWAY
GENERAL PLAN & SECTIONS

SHEET 1 OF 11 AUGUSTA, MAINE

HOWLAND - T2R8-T2R9 - MEDWAY 95-8(133)/95-8(134)

PROJECT DESIGN ENGINEER	BY	DATE
PLANS DESIGN - DETAILED	B.C.H.	O.C.H. 2-19-88
CHECKED		
REVISIONS		
FIELD CHANGES		

BRUNING 44-152-457101

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-8(133)	25	34
		IRG-95-8(134)		

CONSTRUCTION NOTES

1. ____ Maintain one 12' lane traffic at all times.
2. ____ All grout shall be placed between temporary concrete barriers.
3. ____ The top surface of the existing concrete slabs shall be repaired as directed.
4. ____ Depress the bituminous wearing surface around the existing bridge drains as directed.
5. ____ Because of staged construction some expansion joints may require construction joints. These shall be as approved by the Engineer as to type and locations.
6. ____ Payment for drilling & grouting associated with modifications of the joints will be considered incidental to the bridge joint modification items.
7. ____ All grout shall contain a non-shrink additive.
8. ____ Payment for removing and re-installing or modifing existing bridge rail, cutting - removing granite bridge curb and replacing with concrete, as directed, will be considered incidental to the bridge joint modification items unless otherwise noted.
9. ____ Reinforcing steel shall have a cover of 2 inches unless otherwise noted.
10. ____ Where granite curb is called for to be removed to modify a joint or to install a seal, only the smallest amount necessary to accomplish the work shall be removed. It is preferable to remove curb to an existing joint, but if a joint is more than 3 feet away the curb shall be saw cut in the field. The decision about whether to cut or not, and where, shall be the Engineers.
11. ____ Payment for all materials, labor and incidentals required to adjust beam guard rail and anchors at the trailing end of all bridges shall be considered incidental to guard rail items.

SCOPE OF WORK

ALL BRIDGES:

*Remove 2½ inch bituminous wearing surface and remove existing membrane waterproofing.

*Repair deck as necessary.

*Modify and seal expansion joints.

*Install membrane waterproofing and 3 inch bituminous wearing surface.

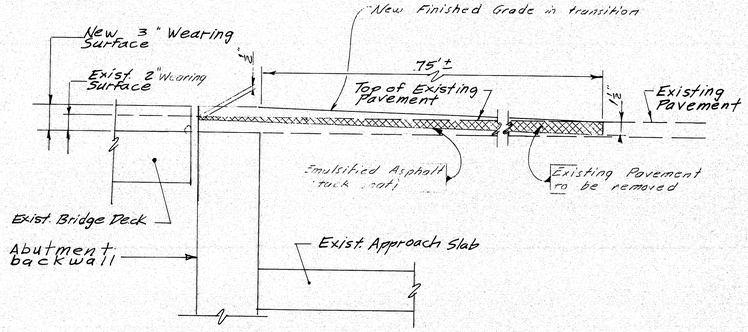
*Clean and paint all structural steel.

Modify approach pavement for new grades where required.

Modify end posts and attach terminal connectors at leading ends of all bridges plus trailing end of Piscataquis River Bridge.

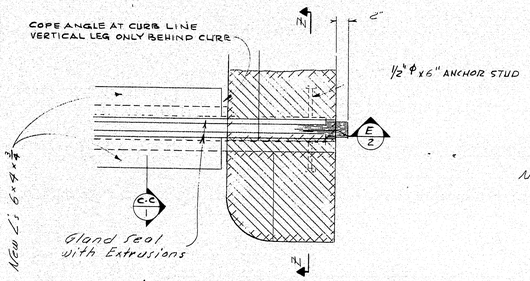
At trailing end adjust beam guardrail as shown.

*Except Vaughn Daggett & Route 116 Bridges



APPROACH PAVEMENT TRANSITION

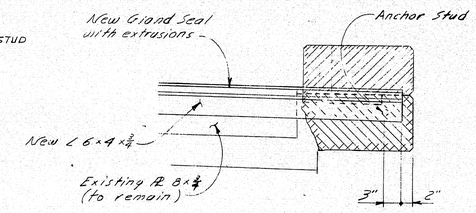
- Both ends of Piscataquis River Bridge
- Both ends of Sebois Road
- South end only Canadian Pacific R.R.



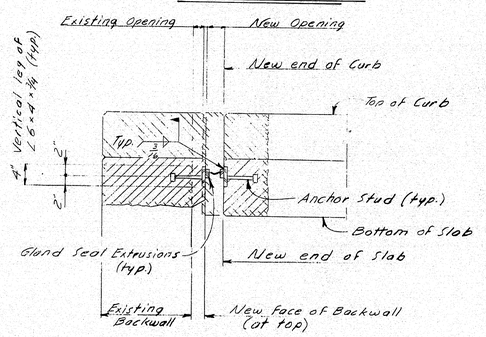
PARTIAL PLAN - GLAND SEAL

SEE BD 125-82

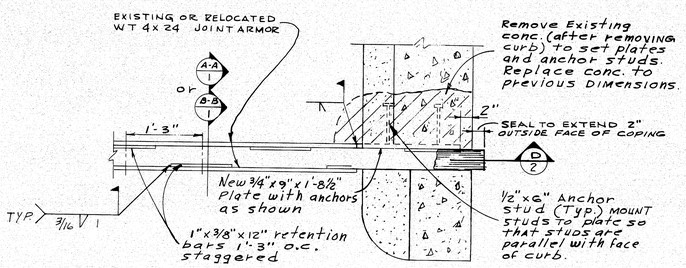
NOTE: Any granite curb removed shall be replaced with concrete.



SECTION E



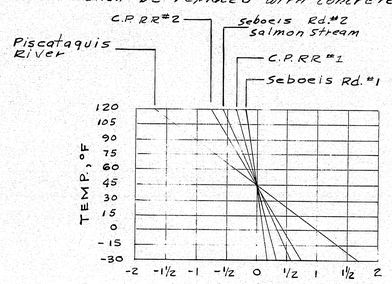
SECTION Z-Z



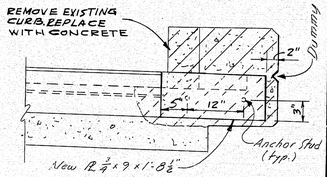
PARTIAL PLAN - COMPRESSION SEAL

SEE BD 125-82

NOTE: Any granite curb removed shall be replaced with concrete.



SETTING



SECTION D

AS BUILT
Richard E. Averill
3-2-92

CARROLL E. TAYLOR & ASSOCIATES
CONSULTING ENGINEERS
410 SUMMER STREET
AUBURN MAINE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95 SOUTHBOUND
OVER
Piscataquis River, Sebois Road, Canadian Pacific RR.
~~INTERSTATE 95 NORTHBOUND~~
~~OVER~~
~~Salmon Stream~~
HOWLAND - T2,R8 - ~~MEDWAY~~
SCOPE, NOTES & SECTIONS

SHEET 2 OF 11 AUGUSTA, MAINE

104-145

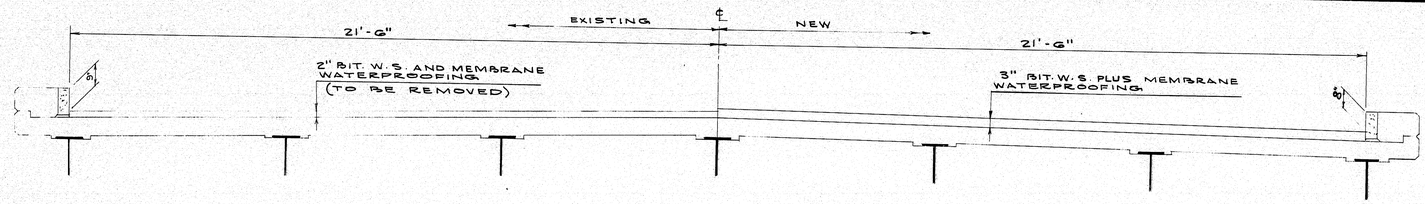
HOWLAND-T2R8-T2R9-MEDWAY 95-8(133)/95-8(134)

PROJECT DESIGN ENGINEER	BY	DATE
PLANS DESIGN - DETAILED	B.C.H.	D.A.U. 2-5-88
CHECKED		
REVISIONS		
FIELD CHANGES		

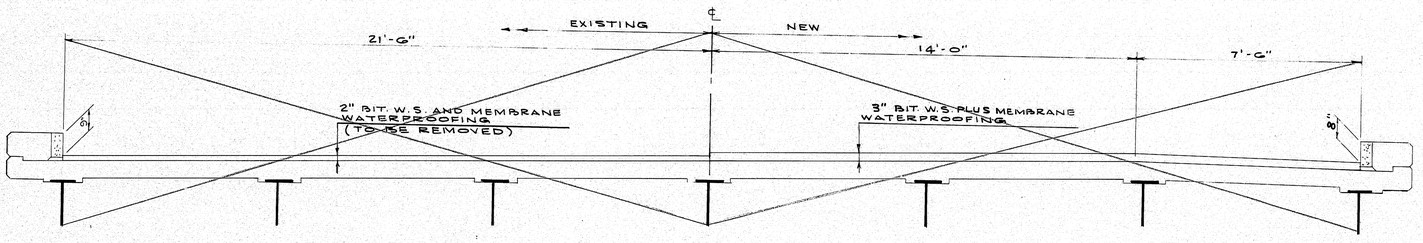
BRUNING 44-132-457101

IRG 95-8(134)

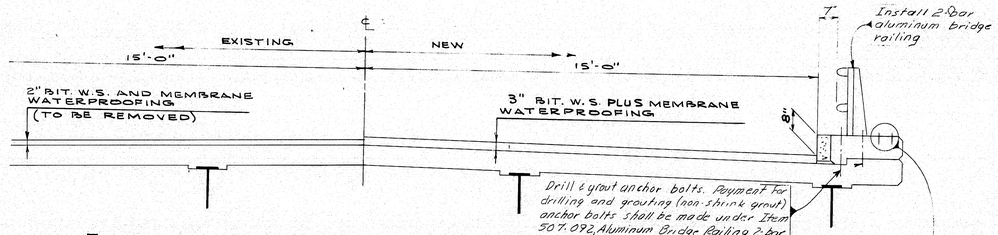
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR 95-4(133)	20	34



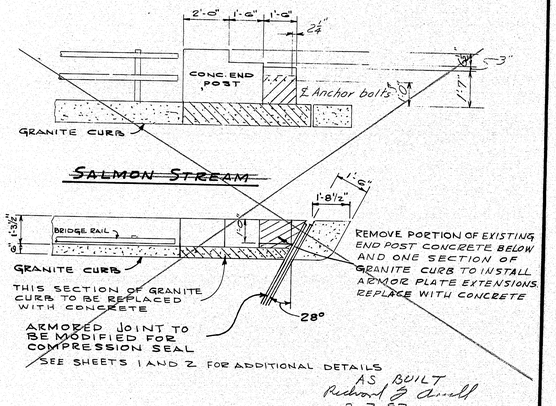
I-95 SOUTHBOUND OVER SEBOEIS ROAD AND CANADIAN PACIFIC RR

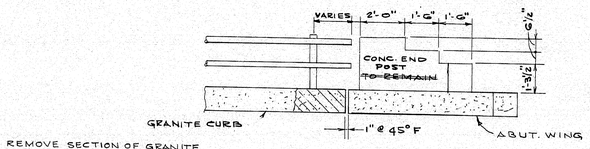


~~I-95 NORTHBOUND OVER SALMON STREAM~~



I-95 SOUTHBOUND OVER PISCATAQUIS RIVER



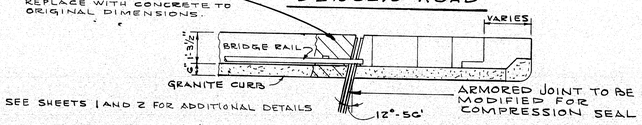


Fill holes with mortar containing a non-shrink additive as directed by the Engineer

Cut line of existing rail anchor bolts or end post reinforcing steel.

Payment for removing a portion of existing bridge rail anchorage and end post reinforcing steel shall be considered incidental to the Bridge Rail Items.

REMOVE SECTION OF GRANITE CURB AND CONCRETE TO INSTALL ARMOR PLATE EXTENSIONS. REPLACE WITH CONCRETE TO ORIGINAL DIMENSIONS.



SEE SHEETS 1 AND 2 FOR ADDITIONAL DETAILS

BRIDGE JOINT ARRANGEMENTS (PLAN & ELEVATIONS) WEST END ABUTMENT #2
OTHER LOCATIONS SIMILAR

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED	B.C.A.	2-9-88
CHECKED		
REVISIONS		
FIELD CHANGES		

PLANS

AS BUILT
Richard B Arnold
3-2-92

CARROLL E. TAYLOR & ASSOCIATES
CONSULTING ENGINEERS
410 SUMMER STREET
AUBURN MAINE

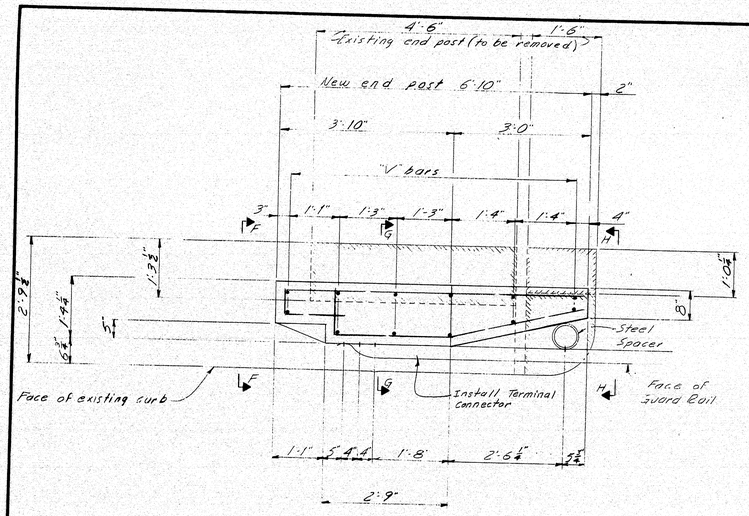
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95 SOUTHBOUND
OVER
Piscataquis River, Seboeis Road, Canadian Pacific RR
~~INTERSTATE 95 NORTHBOUND OVER Salmon Stream~~
HOWLAND - T2, R8 - ~~MEDWAY~~
HALF SECTIONS & JOINT DETAILS
SHEET 3 OF 11 AUGUSTA, MAINE

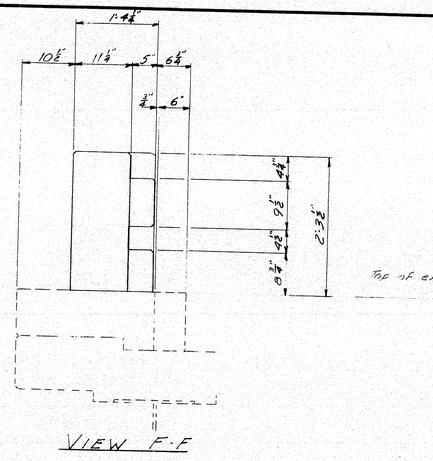
104-146

HOWLAND - T2R8 - T2R9 - MEDWAY 95-8(133) / 95-8(134)

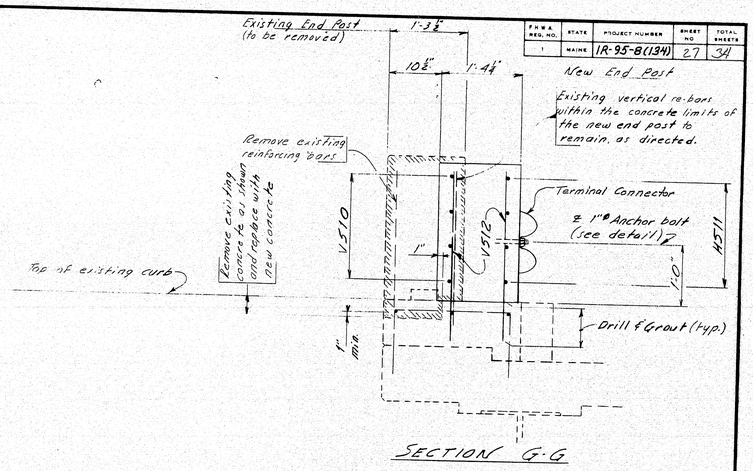
BRUNING 44-132-45710-1



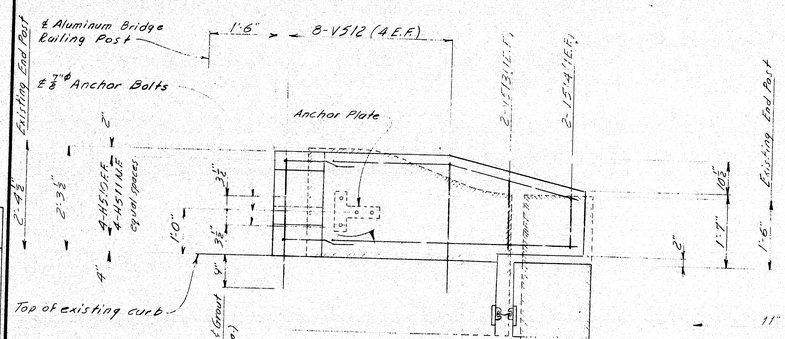
PLAN



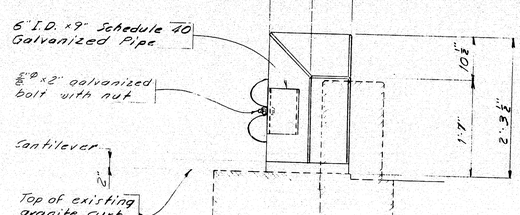
VIEW F-F



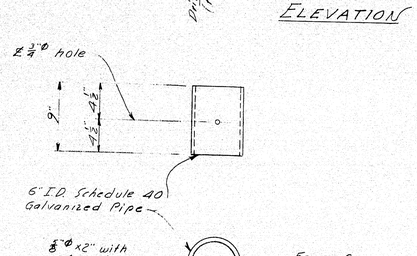
SECTION G-G



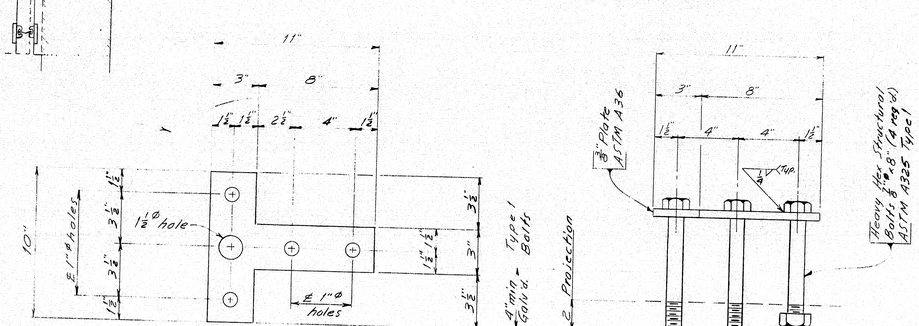
ELEVATION



VIEW H-H



STEEL SPACER DETAIL



RAIL ANCHOR DETAILS

PROJECT DESIGN ENGINEER	BY	DATE
PLANS DESIGN - DETAILED	RTA	4-88
CHECKED		
REVISIONS		
FIELD CHANGES		

BRUNING 44-102 457101-1

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-8(134)	27	34

NOTES

1. Reinforcing steel shall have a minimum cover of 2 inches unless otherwise indicated.
2. Existing reinforcing steel to remain shall be cleaned as directed prior to placing new concrete.
3. Mortar for grouting dowels shall contain an approved non shrink additive. Payment for drilling and grouting of dowels shall be considered incidental to Item 606.173, Bridge Connections.
4. Additional holes required in Guard Rail Panels 11'-3" long may be made by drilling, punching, or any other method that produces a neat, clean hole of the required size. Burning of holes will not be allowed.
5. After installation of guard rail is complete upset the thread on the anchor bolts in three places around each bolt at the junction of the nut and the exposed thread, with a center punch or similar tool.

104-147

"AS BUILT"
Richard & Averill
3-2-92

For Guard Rail Layout see sheet #7

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

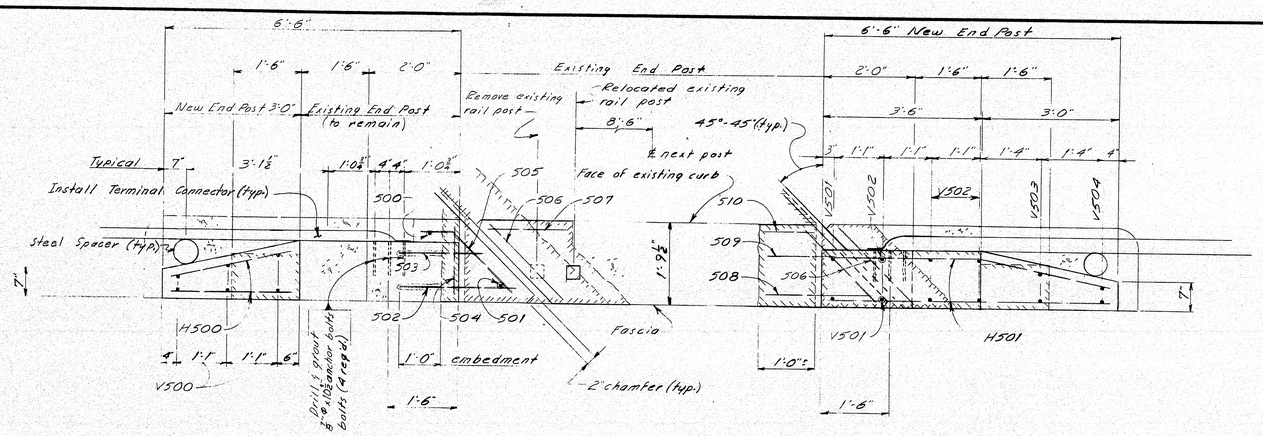
END POST & GUARD RAIL CONNECTION DETAIL

SB PISCATAQUIS RIVER BRIDGE

SHEET 4 OF 11 AUGUSTA, MAINE

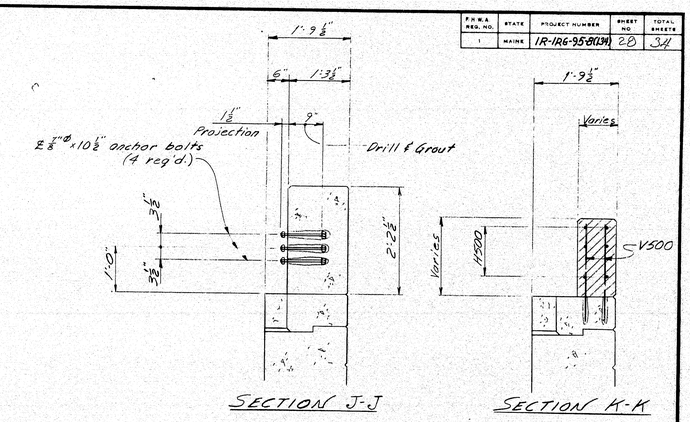
HOWLAND 95-8(133)

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-IR6-95-8(134)	20	34



PLAN

East fascia shown, west fascia similar

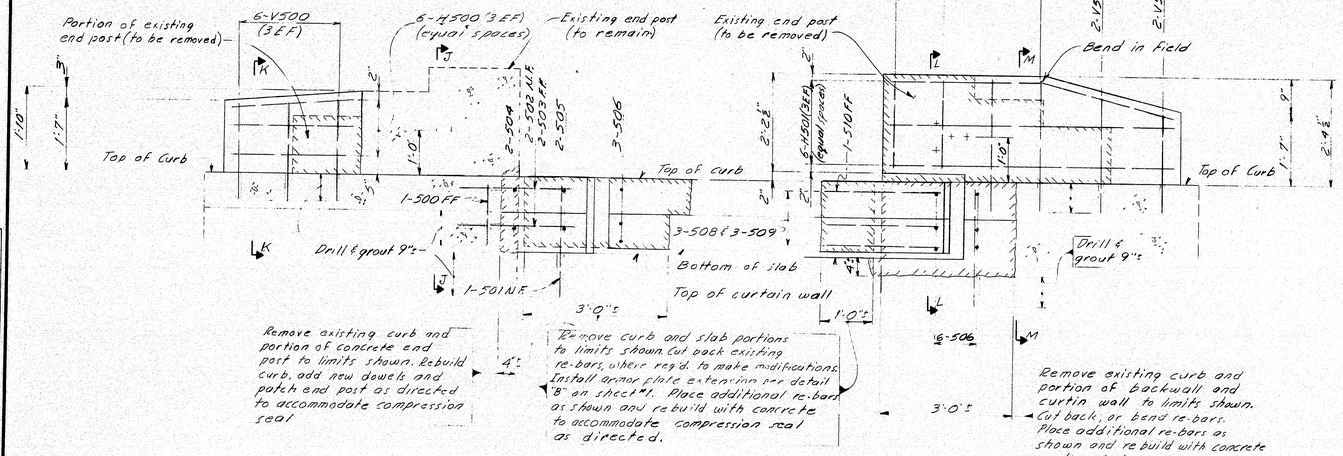


SECTION J-J

SECTION K-K

East wing Abut. #1
West wing Abut. #2

East wing Abut. #2
West wing Abut. #1



Remove existing curb and portion of concrete end post to limits shown. Rebuild curb, add new dowels and patch end post as directed to accommodate compression seal

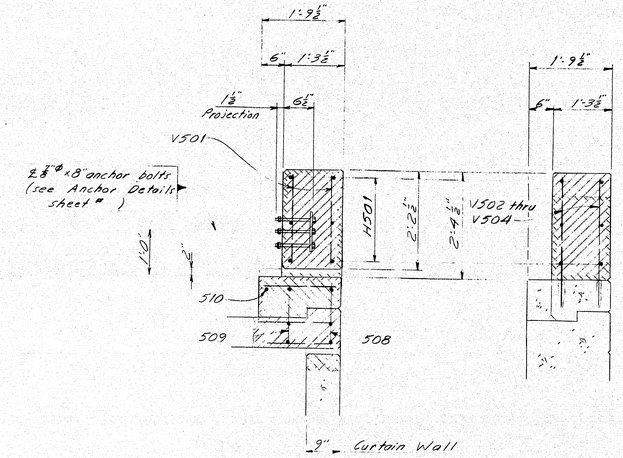
Remove curb and slab portions to limits shown. Cut back existing re-bars, where req'd. to make modifications. Install armor plate extension per detail "B" on sheet #1. Place additional re-bars as shown and rebuild with concrete to accommodate compression seal as directed.

Remove existing curb and portion of backwall and curtin wall to limits shown. Cut back, or bend re-bars. Place additional re-bars as shown and rebuild with concrete as directed.

Note:
Exposed areas of top flange of beams shall be painted.

ELEVATION

The removing or cutting of the existing reinforcing steel to accommodate the new compression seal and rebuilding of the end posts shall be kept at a minimum. The exposed reinforcing steel to remain shall be cleaned as directed.



SECTION L-L

SECTION M-M

PROJECT DESIGN ENGINEER	BY	DATE
PLANS	DESIGN DETAILED	2-7-92
	CHECKED	
	REVISIONS	
	FIELD CHANGES	

104-148
AS BUILT
Purchard & Lovell
3-2-92

For Guard Rail layout see sheet #7

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95 SB
OVER
CANADIAN PACIFIC RAILWAY

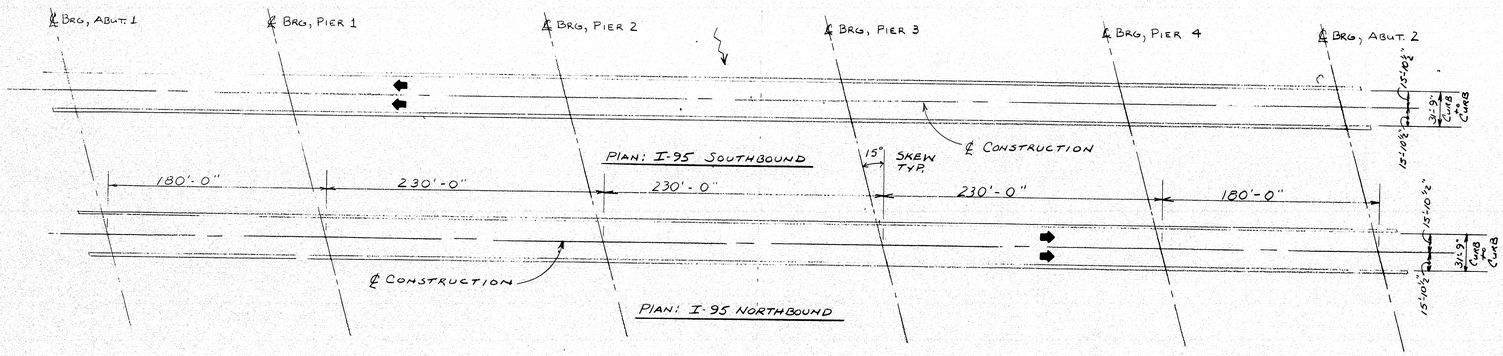
RAIL CONNECTION AND JOINT MODIFICATION

SHEET 5 OF 11 AUGUSTA, MAINE

T2R8-T2R9-MEDWAY 95-8(134)

BRUNING 44-132 4270-1

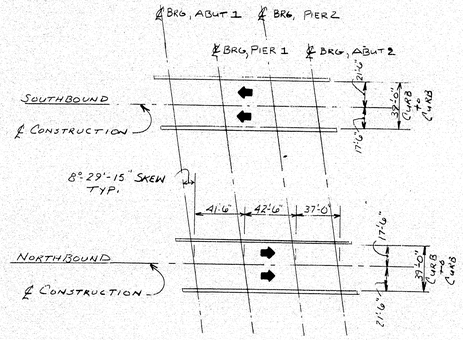
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-9(121)	29	34



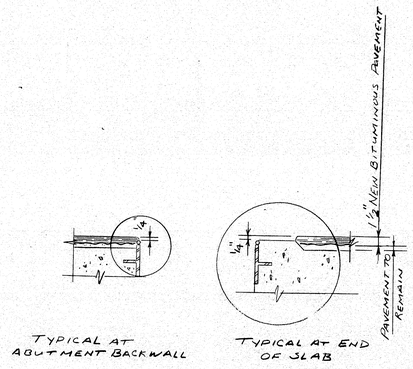
CONSTRUCTION NOTES

1. Maintain a miniminum of one 12 foot travel lane at all times.
2. Grind and replace 1½ inches of bituminous pavement on the Vaughn Daggett bridges and 1½ inches on the I-95 over Route 116 bridges.
3. Grinding and paving shall be from curb to curb on both bridges northbound and southbound.
4. Exposed asphalt after grinding shall be cleaned and have a tack coat of emulsified asphalt applied.

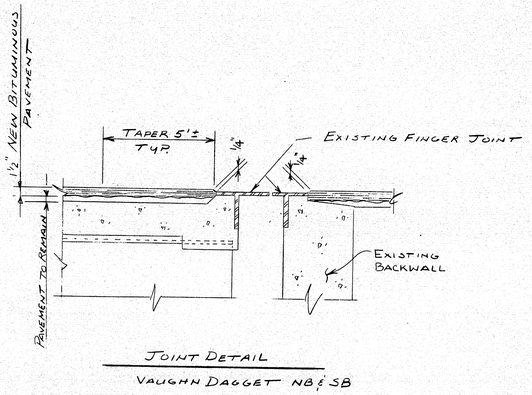
VAUGHN DAGGETT



I-95 over Route 116



I-95 over Route 161 NB & SB



JOINT DETAIL
VAUGHN DAGGET NB & SB

PROJECT DESIGN ENGINEER	BY	DATE
PLANS	DESIGN - DETAILED JEB	2-10-94
	CHECKED JEB	
	REVISIONS	
	FIELD CHANGES	

BRUNING 44-132-45710-1

104-149
AS BUILT
Revised & Amended
3-2-97

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

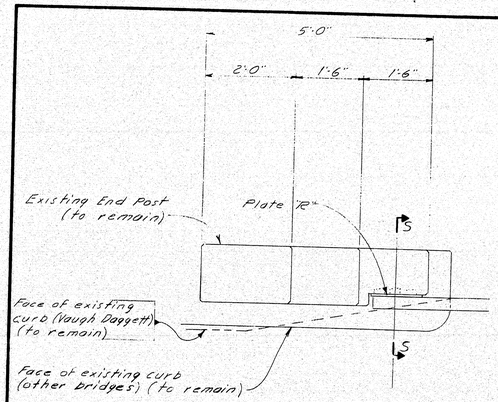
VAUGHN DAGGETT MEMORIAL
BRIDGE OVER PENOBSCOT RIVER
&
INTERSTATE 95 OVER
ROUTE 116
IN THE TOWN OF
MEDWAY
PENOBSCOT COUNTY

GENERAL PLAN & DETAILS

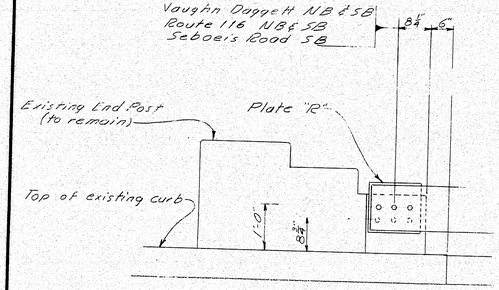
SHEET 6 OF 11 AUGUSTA, MAINE

MEDWAY 95-9(121)

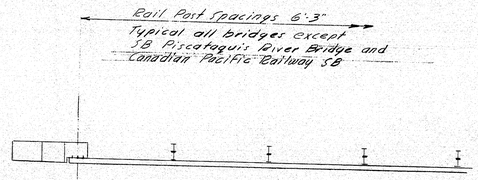
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-95-9(121)	30	34



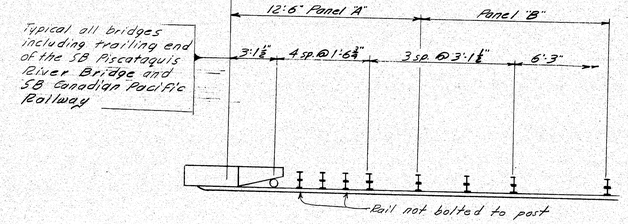
PLAN
(TRAILING END)



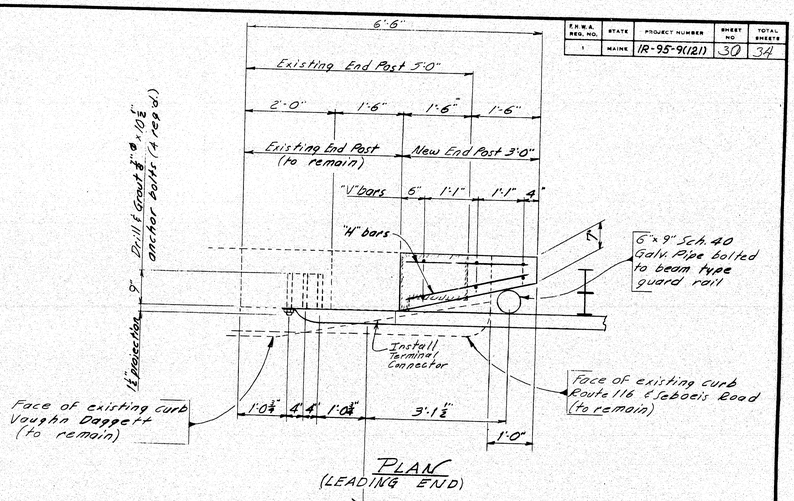
ELEVATION
(TRAILING END)



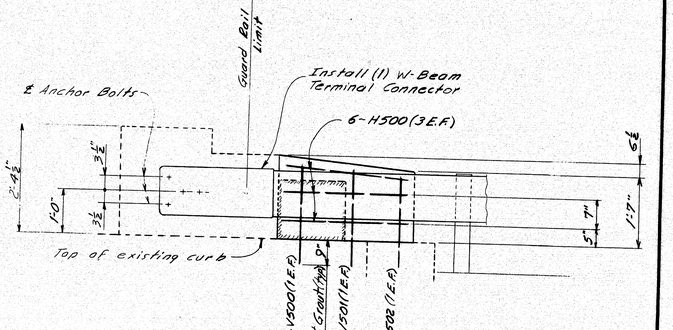
GUARD RAIL LAYOUT (TRAILING END)
(all panels single rail)



GUARD RAIL LAYOUT (LEADING END)
(Panel "A" double rail)



PLAN
(LEADING END)



ELEVATION
(LEADING END)

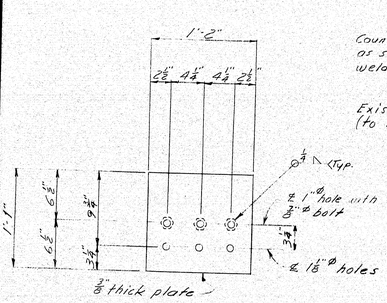
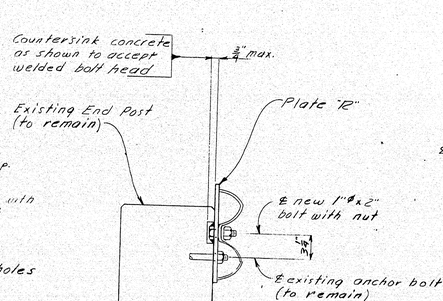
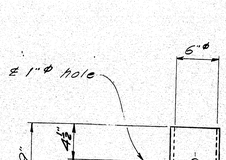


PLATE "R" DETAIL



SECTION 5-5



STEEL SPACER TUBE DETAIL
Schedule 40 galvanized pipe

PROJECT DESIGN ENGINEER		BY	DATE
PLANS	DESIGN - DETAILED	LRT	4-88
	CHECKED		
	REVISIONS		
	FIELD CHANGES		

BRIDGING 44-132, 45-110-1

104-150

AS BUILT
Richard S Averell
3-2-92

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

END POST & GUARD RAIL CONNECTION DETAIL

INTERSTATE 95 over
Vaughn Daggett Bridge NB & SB
Route 116 Bridge NB & SB
Seboeis Road Bridge SB

SHEET 7 OF 11 AUGUSTA, MAINE

MEDWAY 95-9(121)

REINFORCING STEEL SCHEDULE

STRAIGHT BARS

MARK	NO.	LENGTH	LOCATION
PISCATAQUIS RIVER BRIDGE SB			
V512	32	2'-10"	Dowel
V513	8	1'-6"	End Post
V514	8	1'-2"	End Post
SEBOEIS ROAD SB			
V500	4	2'-4"	End Post
V501	4	2'-3"	End Post
V502	4	1'-3"	End Post
H500	12	2'-8"	End Post
CANADIAN PACIFIC R.R SB			
500	2	1'-6"	Dowel
501	2	2'-3"	Dowel
502	4	2'-9"	Slab & Curb
503	4	1'-10"	Slab & Curb
504	4	1'-5"	Slab & Curb
506	18	2'-3"	Slab & Curb
507	2	1'-8"	Curb
508	6	2'-4"	Slab & Curb
509	6	1'-5"	Slab & Curb
510	2	1'-0"	Curb
V500	12	2'-3"	Dowels
V501	6	1'-10"	End Post
V502	10	2'-9"	Dowels
V503	4	2'-7"	Dowels
V504	4	2'-1"	Dowels
H500	12	2'-8"	End Post
H501	12	6'-2"	End Post

MARK	NO.	LENGTH	LOCATION
ROUTE 116 NB & SB			
V500	8	2'-4"	Dowel
V501	8	2'-3"	Dowel
V502	8	1'-3"	Dowel
H500	24	2'-8"	End Post
VAUGHN DAGGETT NB & SB			
V500	8	2'-4"	Dowel
V501	8	2'-3"	Dowel
V502	8	1'-3"	Dowel
H500	24	2'-8"	End Post

MARK	NO.	LENGTH	LOCATION

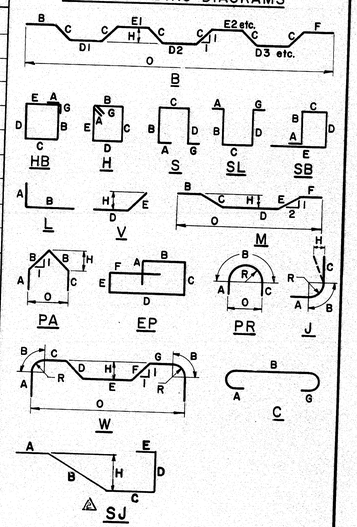
BENT BARS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
PISCATAQUIS RIVER BRIDGE														
H510	16	8'-4"	EP	0	0	0	6'-6"	7"	1'-3"	–	–	–	–	End Post
H511	16	6'-5"	L	1'-0"	5'-5"	–	–	–	–	–	–	–	–	End Post
CANADIAN PACIFIC RR SB														
505	4	2'-9"	V	–	–	–	2'-0"	9"	–	–	6"	–	–	Slab & Curb

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION

FHWA REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-95-8(133)	31	34
		IR-IAG-95-8(134)		
		IR-95-9(121)		

TYPE-BENDING DIAGRAMS



All dimensions are out to out of reinf. bar

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 318. ⚠

Reinforcing Bar: ASTM A615 Grade 60

GENERAL NOTES

1. First digit(s) following the letter of the Mark indicates size of reinf. bar.
   - Mark (A 502) bar size - #5
   - Mark (P 1001) bar size - #10
   - Mark (S 603) bar size - #6
2. Each truss bar, Type B, may be replaced by two (2) straight bars (one top & one bottom) of the same bar size as the truss bar. Payment in either case shall be based on truss bars as scheduled on plans.

104-151

REVISIONS	DATE
⚠ New Bent Bar Type SJ	9-26-89
⚠ Revised ACI Standard	5-12-83

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

Interstate 95:
Piscataquis River Bridge SB
Seboeis Road SB
Canadian Pacific RR SB
Route 116 NB & SB
Vaughn Daggett NB & SB

SHEET 3 OF 11 AUGUSTA, MAINE

PLANS	DESIGN - DETAIL	CHECKED	REVISIONS	FIELD CHANGES
BY	RFB			
DATE	5-'89			

HOWLAND - T2R8 - T2R9 - MEDWAY 95-8(133)/95-8(134)/95-9(121)