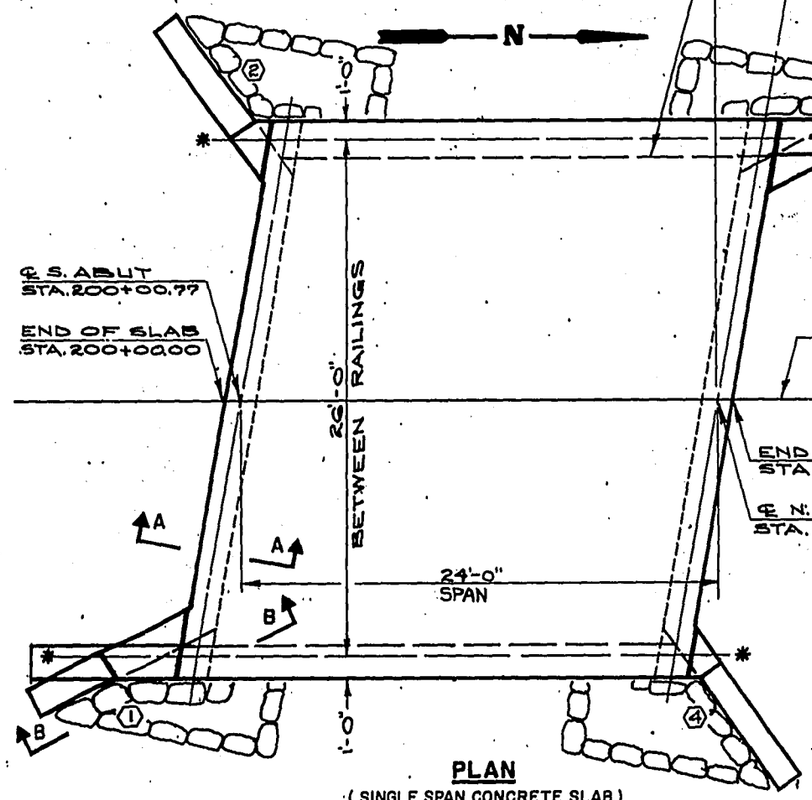
STATE PROJECT NUMBER	SHEET NO.
5770-00-79	8.0

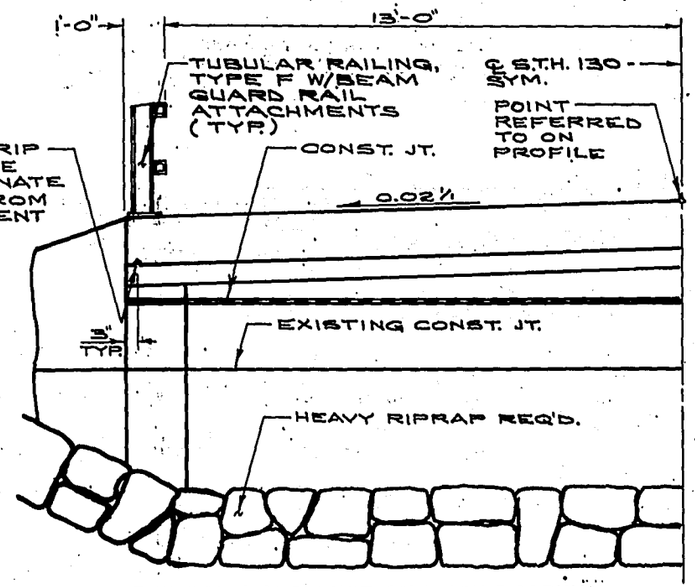


PLAN

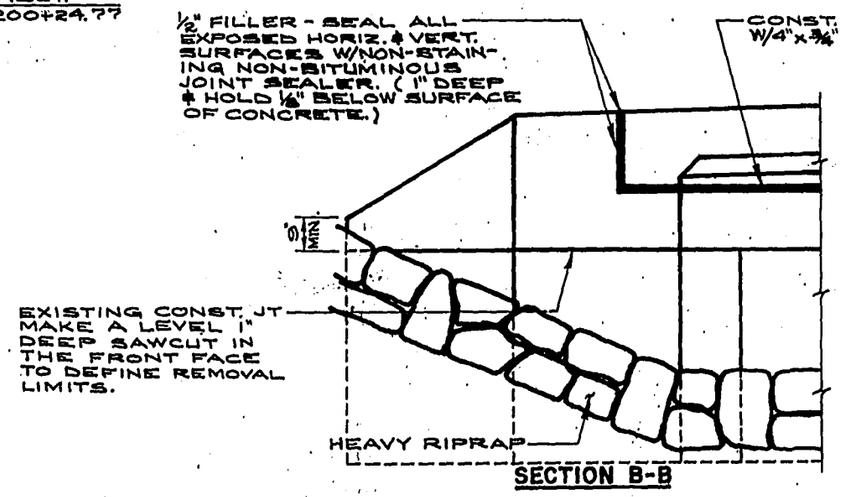
(SINGLE SPAN CONCRETE SLAB)
(REHABILITATION)

SECTION A-A

* DIMENSIONS ARE NORMAL TO THE ℄ OF SUBSTRUCTURE UNITS.



TYPICAL HALF SECTION THRU ROADWAY



SECTION B-B

TOTAL ESTIMATED QUANTITIES

BID ITEM	UNIT	QTY.
REMOVING OLD BRIDGE, STATION 200+12	L.S.	1
EXCAVATION FOR STRUCTURES, BRIDGES B-25-934	L.S	1
CONCRETE MASONRY, BRIDGES	C.Y.	53
PROTECTIVE SURFACE TREATMENT	GAL.	4
HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	1,500
COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	5,370
TUBULAR RAILING, TYPE F, STRUCTURE B-25-934	L.S.	1
HEAVY RIPRAP	C.Y.	30
GEOTEXTILE FABRIC, TYPE HR	S.Y.	55
CONCRETE MASONRY ANCHORS, TYPE L, NO. 5 BARS	EACH	92
CONCRETE MASONRY ANCHORS, TYPE S, ⅝-INCH	EACH	64

NON-BID ITEM

FILLER	SIZE	1/2" & 3/4"

DESIGN DATA

LIVE LOAD

INVENTORY RATING	HS22
OPERATIONAL RATING	HS37
MAX. STD. PERMIT VEHICLE LOAD	190 KIPS.
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF	20 LBS./SQ. FT.

ALLOWABLE DESIGN STRESSES

CONCRETE MASONRY, SLAB	f'_c = 4,000 p.s.i.
HIGH-STRENGTH BAR STEEL REINFORCEMENT	f_y = 60,000 p.s.i.

TRAFFIC DATA

A.D.T. (1989)	625
DESIGN SPEED	55 M.P.H.

GENERAL NOTES

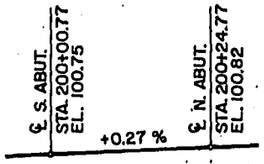
THE EXISTING SUPERSTRUCTURE IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE 25.5' LONG WITH A 24.5' CLEAR ROADWAY.

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

DIMENSIONS ARE BASED ON FIELD NOTES. THEREFORE THE CONTRACTOR SHALL VERIFY THEM IN THE FIELD BEFORE ACCEPTANCE.

LIST OF DRAWINGS — X-82871



PROFILE GRADE LINE

BENCH MARK

NO. 1, STA. 199+98, CHISELED "□" IN SE WINGWALL — EL. 100.00 B-25-934, 13' RT.

No.	Date	Revision	By

WESTBROOK ASSOCIATED ENGINEERS, INC. PLAIN, WI 53577
CONSULTING ENGINEERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-934

S.T.H. 130 OVER OTTER CREEK

County IOWA		Town/City CLYDE	
Design Spec. A.A.S.H.T.O. 1989		Load —	Const. Spec 1989
Designed By JJK	Design Checked GWB	Drawn By PCC	Plans Checked GWB

Approved Stanley W Woody, State Bridge Engineer — 2-1-90 Date

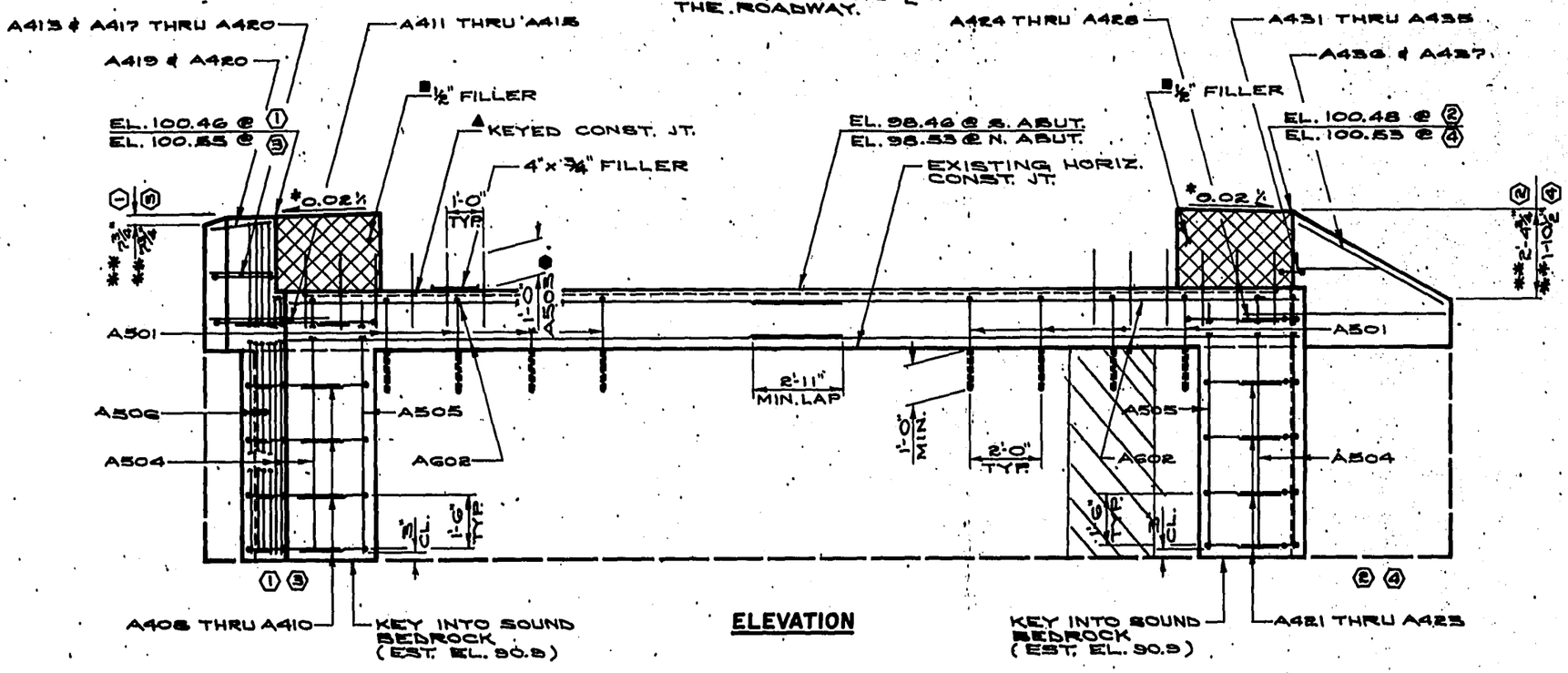
DECK REPLACEMENT — SHEET 1 OF 6 — X82871

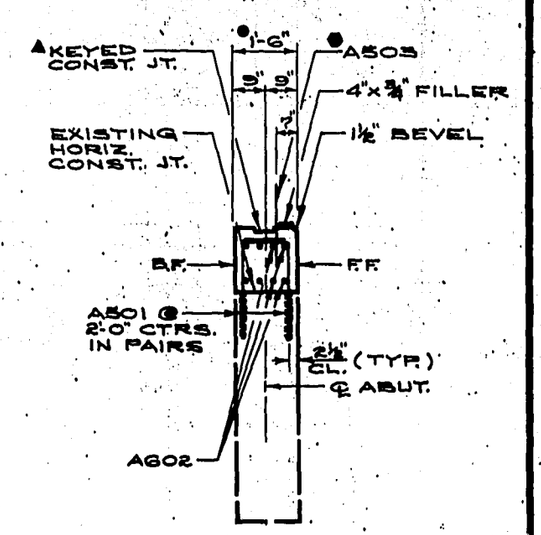
Gary W. Boyle 12-1-89

BRIDGE OFFICE CONTACT
(608) 266-8486
D. BABLER

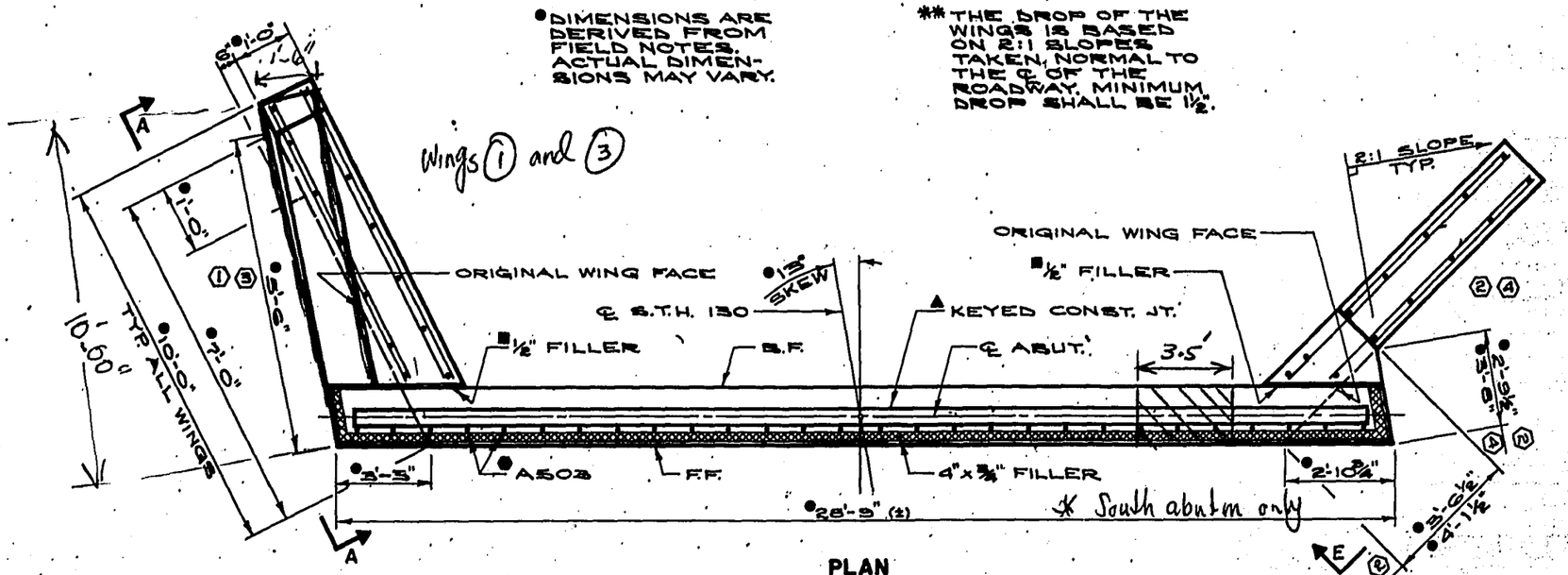
5348

STATE PROJECT NUMBER	SHEET NO
5770-00-79	8.1





TYPICAL SECTION THRU BODY



* This piece was taken out due to extensive cracks on the body. Poured back with fresh Concrete.

■ ½" FILLER - TO TOP OF WINGS AS SHOWN. SEAL VERT. & HORIZ. SURFACES WITH GRAY NON-STAINING NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

▲ KEYED CONSTRUCTION JOINT FORMED BY A SURFACED BEVELED 2"x6".

● A503 BARS MAY BE PLACED AFTER THE CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. HOLD 1'-0" DEEP.

SEE SHT. 3 FOR VIEW A & VIEW E.

No	Date	Revision	By

WESTBROOK ASSOCIATED ENGINEERS, INC.
CONSULTING ENGINEERS
PLAIN, WI 53577

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-934

Const. Spec.	Drawn By	Plans Checked
1989	PCC	GWB

ABUTMENTS

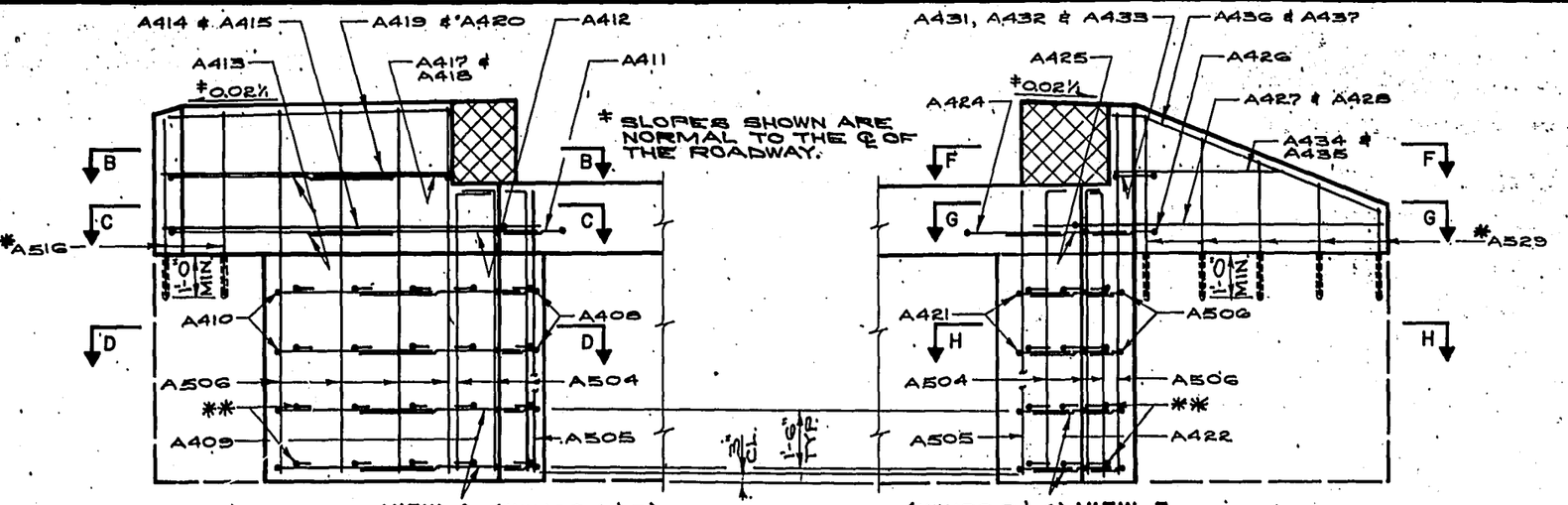
SHEET 2 OF 6

X 82871

STATE PROJECT NUMBER	SHEET NO.
5770-00-79	8.2

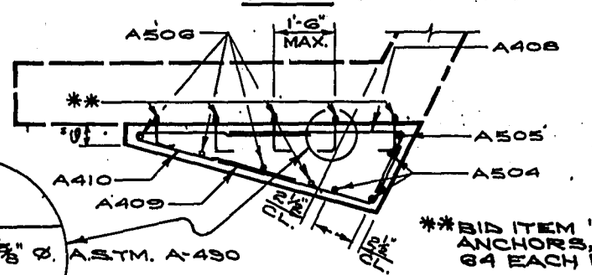
THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

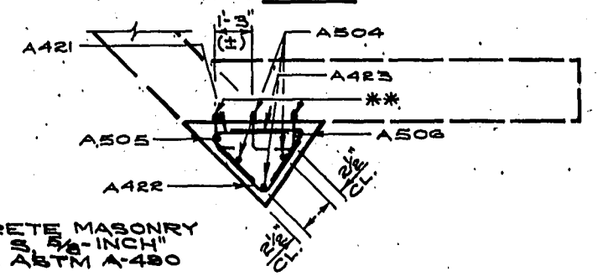


VIEW A (WINGS 1 & 3)

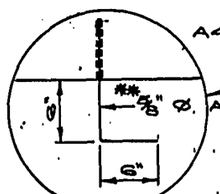
(WINGS 2 & 4) VIEW E



SECTION D-D



SECTION H-H



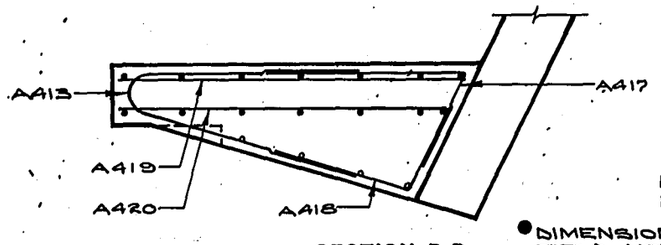
**BID ITEM "CONCRETE MASONRY ANCHORS, TYPE S, ⅝-INCH" 64 EACH REQ'D. ASTM A-490

A.S.T.M. A-490

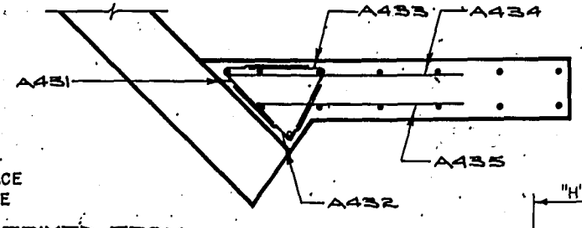
SECTION C-C

*BID ITEM "CONCRETE MASONRY ANCHORS, TYPE L, NO. 5 BARS" WEIGHT IS NOT INCLUDED IN BILL OF BARS. 32 EACH REQ'D.. (A501, A516, A529 & A530)

SECTION G-G



SECTION B-B



SECTION F-F

F.F. - FRONT FACE
B.F. - BACK FACE

●DIMENSIONS ARE DERIVED FROM FIELD NOTES. ACTUAL DIMENSIONS MAY VARY.

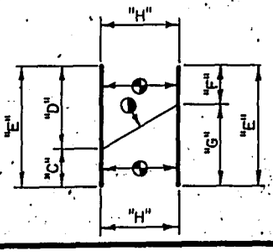
◑ MARK AND CUT ALL BARS ALONG THIS LINE. MAKE ALL CUTS NORMAL TO BAR AXIS.

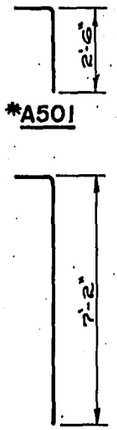
◓ BUNDLE AND MARK CUT BARS WITH BAR MARK AND SET NUMBERS.

"H" IS THE NUMBER OF BARS IN A CUTTING DIAGRAM PRIOR TO CUTTING.

MARK		"C"	"D"	"E"	"F"	"G"	"H"	SETS REQ'D.
A529	SET 1	2-5	—	6-9	—	4-4	5	2
	SET 2	—	4-4		2-5	—		2

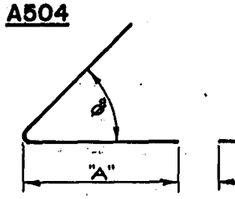
●CUTTING DIAGRAM - A529

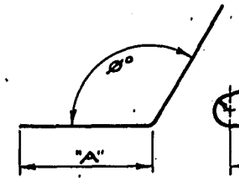




●BILL OF BARS (TWO ABUTMENTS) · UNCOATED 1,500 LBS.*

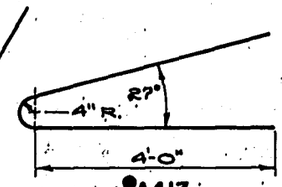
	MARK	NO. REQ'D	LENGTH	BENT	CUT DIAG.	LOCATION	
*	A501	48	3-6	X		BODY - DOWELS	VERT.
	A502	32	15-8			"	HORIZ.
	A503	56	2-0			" - DOWELS	VERT.
	A504	12	8-2	X		"	"
	A505	4	7-2			"	"
	A506	10	9-2			"	"
	A408	8	6-8	X		BODY & WINGS 1 & 3	HORIZ.
	A409	8	5-6	X		" & " 1 & 3	"
	A410	8	7-3	X		WINGS 1 & 3	"
	A411	2	8-5	X		BODY & WINGS 1 & 3	"
	A412	2	7-3	X		" & " 1 & 3	"
	A413	4	8-11	X		WINGS 1 & 3	"
	A414	2	11-3	X		BODY & WINGS 1 & 3	"
	A415	2	11-9	X		" & " 1 & 3	"
*	A516	28	4-4			WINGS 1 & 3	VERT.
	A417	2	4-9	X		" 1 & 3	HORIZ.
	A418	2	6-1	X		" 1 & 3	"
	A419	4	8-3			" 1 & 3	"
	A420	4	7-9			" 1 & 3	"
	A421	8	4-0	X		BODY & WINGS 2 & 4	"
	A422	8	3-7	X		" & " 2 & 4	"
	A423	8	4-0	X		" & " 2 & 4	"
	A424	2	6-10	X		" & " 2 & 4	"
	A425	2	5-2	X		" & " 2 & 4	"
	A426	2	7-2	X		WINGS 2 & 4	"
	A427	2	11-7	X		BODY & WINGS 2 & 4	"
	A428	2	11-2	X		" & " 2 & 4	"
*	A529	10	6-9		X	WINGS 2 & 4	VERT.
*	A530	6	4-5			" 2 & 4	"
	A431	2	3-5	X		" 2 & 4	HORIZ.
	A432	2	3-1	X		" 2 & 4	"
	A433	2	3-7	X		" 2 & 4	"
	A434	2	6-0			" 2 & 4	"
	A435	2	5-4			" 2 & 4	"
	A436	2	8-1	X		" 2 & 4 - TOP @ B.F.	"
	A437	2	8-11	X		" 2 & 4 - " @ F.F.	"





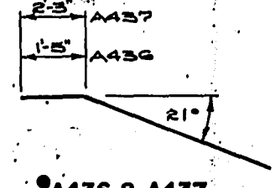
●A408 THRU A415, A417, A418, A421 THRU A428, & A431 THRU A433

MARK	"A"	Ø°
A408	4-2	50
A409	3-2	103
A410	3-6	27
A411	4-9	50
A412	3-11	103
A414	9-9	120
A415	10-3	120
A417	2-9	50
A418	3-3	103
A421	2-3	50



●A413

MARK	"A"	Ø°
A422	1-9	77
A423	1-9	43
A424	3-9	50
A425	3-1	77
A426	3-1	43
A427	10-1	130
A428	9-8	130
A431	1-11	50
A432	1-6	77
A433	1-6	43



●A436 & A437

No.	Date	Revision	

WESTBROOK ASSOCIATED ENGINEERS, INC. PLAIN, WI. 53577

CONSULTING ENGINEERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-934

Const. Spec.	Drawn By	Plans Checked
1989	PCC	GWB

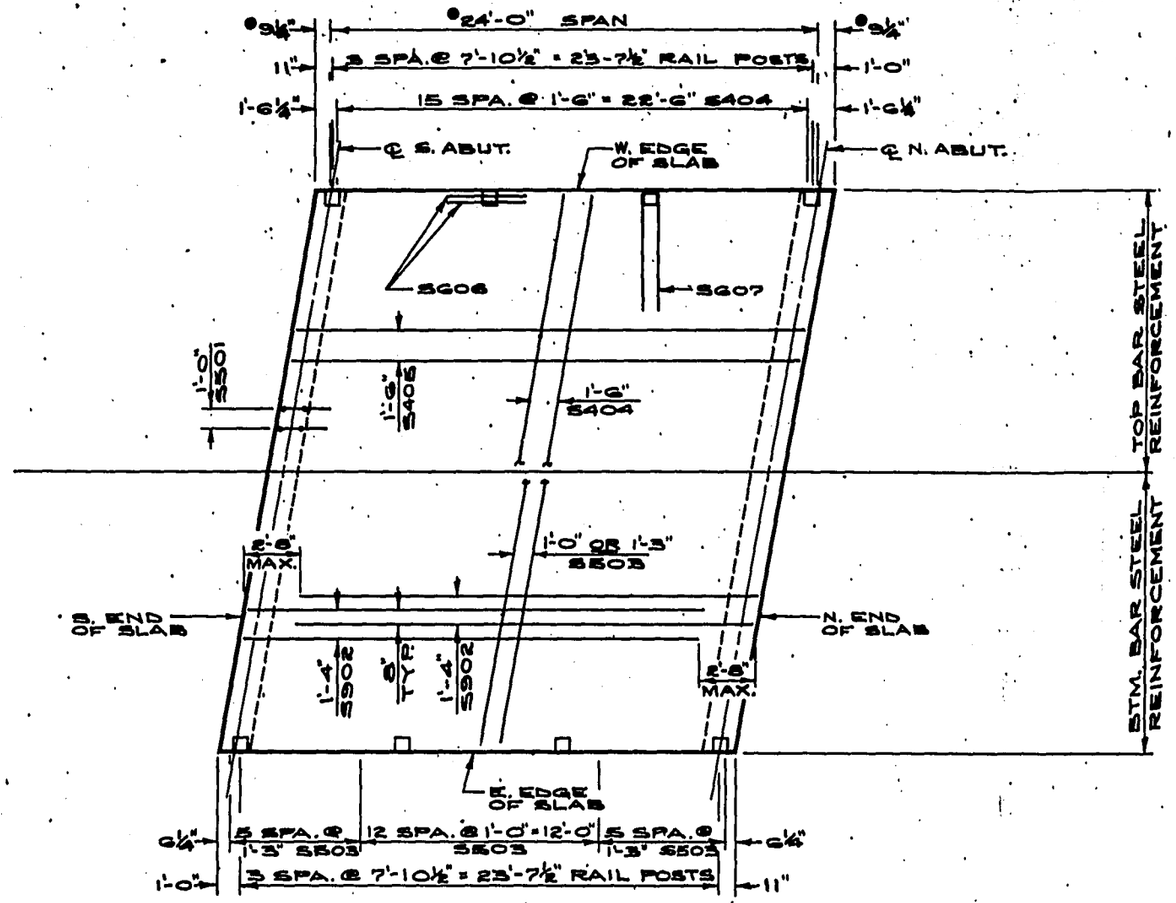
ABUTMENT DETAILS

SHEET 3 OF 6

X 82871

5348

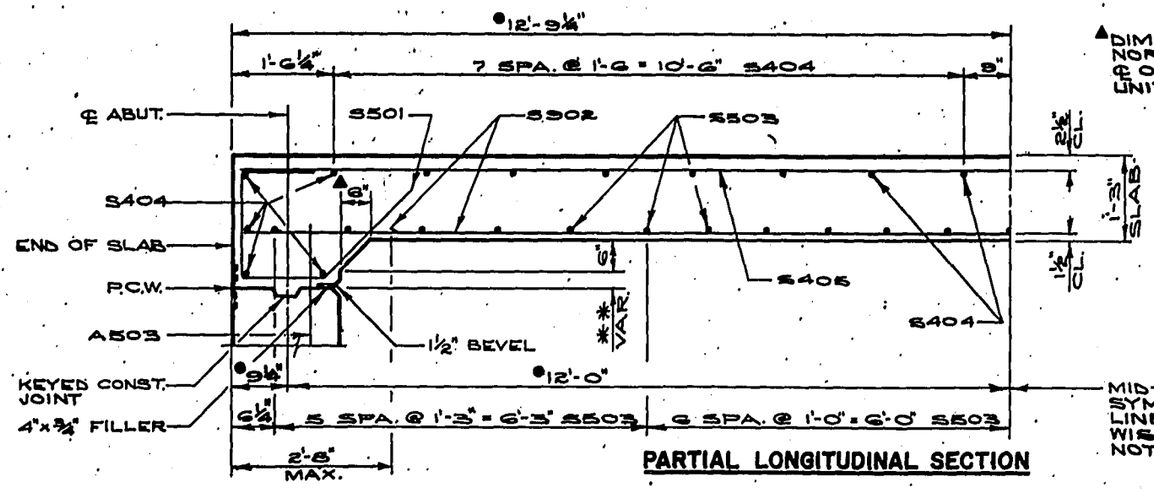
STATE PROJECT NUMBER	SHEET NO.
5770-00-79	8, 3



PLAN

●DIMENSIONS ARE DERIVED FROM FIELD NOTES. ACTUAL DIMENSIONS MAY VARY.

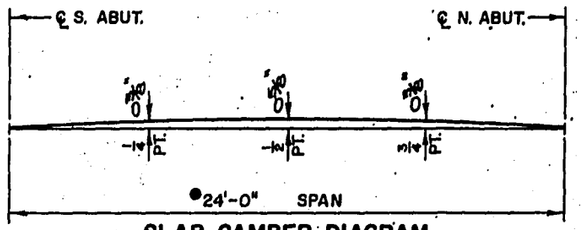
**VARIES - 3" @ ① & ④
3¼" @ ② & ③
6½" @ ℄ ROADWAY



PARTIAL LONGITUDINAL SECTION

▲DIMENSION IS NORMAL TO THE ℄ OF SUBSTRUCTURE UNITS.

MID-SPAN STRUCTURE SYM. ABOUT THIS LINE UNLESS OTHERWISE SHOWN OR NOTED.



SLAB CAMBER DIAGRAM

NOTE:

CAMBER SPAN AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION AND FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. DEADLOAD DEFLECTION ONLY EQUALS APPROXIMATELY ¼ OF CAMBER VALUES SHOWN.

ALTERNATE TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS.

BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

ALL TRANSVERSE BAR STEEL REINFORCEMENT SHALL BE PLACED ON THE SKEW.

No	Date	Revision	By

WESTBROOK ASSOCIATED ENGINEERS, INC.
PLAIN, WI 53577
CONSULTING ENGINEERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-934

Const. Spec.	Drawn By	Plans Checked
1989	PCC	GWB

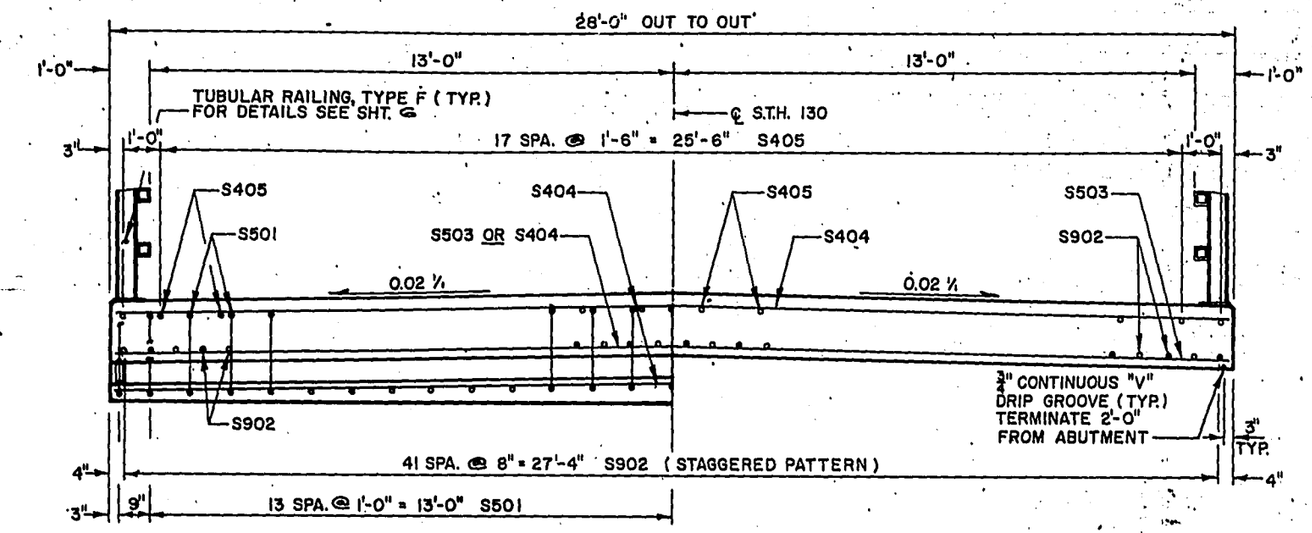
SUPERSTRUCTURE

SHEET 4 OF 6

X 82871

STATE PROJECT NUMBER	SHEET NO
5770-00-79	8.4

THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.
ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

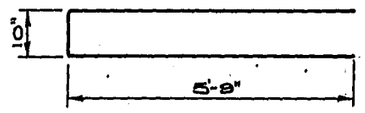


AT ABUT. IN SPAN

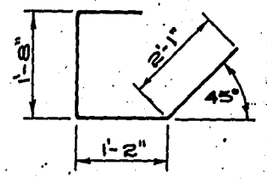
CROSS SECTION THRU ROADWAY

BILL OF BARS - COATED **5,370 LBS.**

MARK	NO. REQ'D. COATED	NO. REQ'D. UNCOATED	LENGTH	BENT	CUT DIAG.	LOCATION
S501	58		7-0	X		SLAB @ ABUT. - TIES LONGIT.
S902	42		22-9			" - BTM. "
S503	23		28-4			" - " TRANS.
S404	24		28-4			" - TOP "
S405	20		24-9			" - " LONGIT.
S606	16		4-0			" @ RAIL POSTS "
S607	8		12-0	X		" @ " " TRANS.



S607



S501

No	Date	Revision	By

WESTBROOK ASSOCIATED ENGINEERS, INC.
CONSULTING ENGINEERS
PLAIN, WI 53577

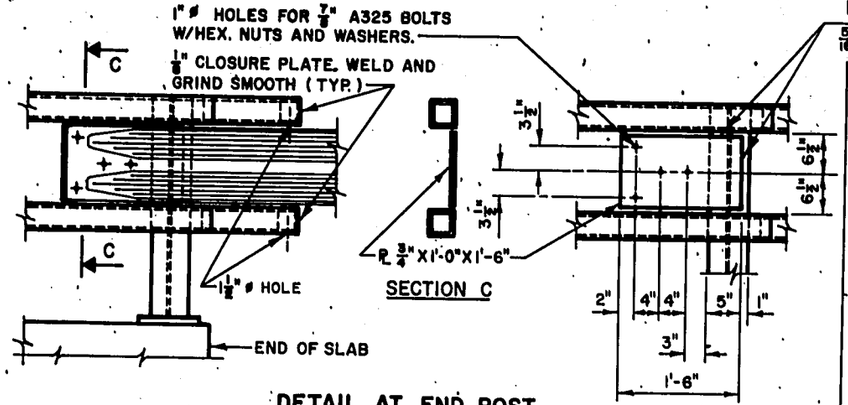
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-934

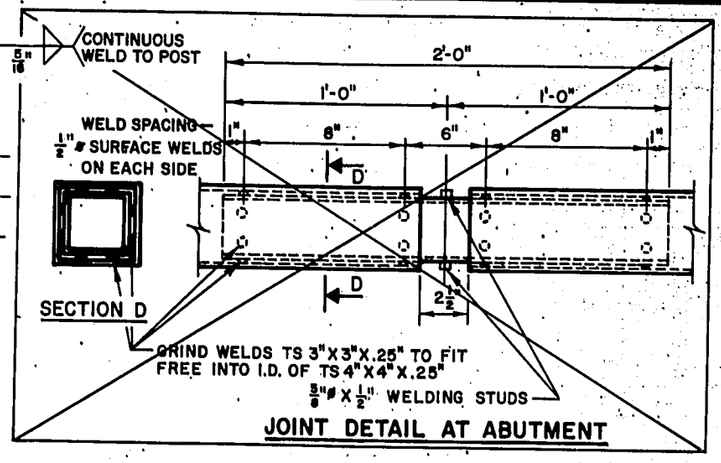
Const. Spec	Drawn By	Plans Checked
1989	PCC	GWB

SUPERSTRUCTURE DETAILS SHEET 6 OF 6 X 82871

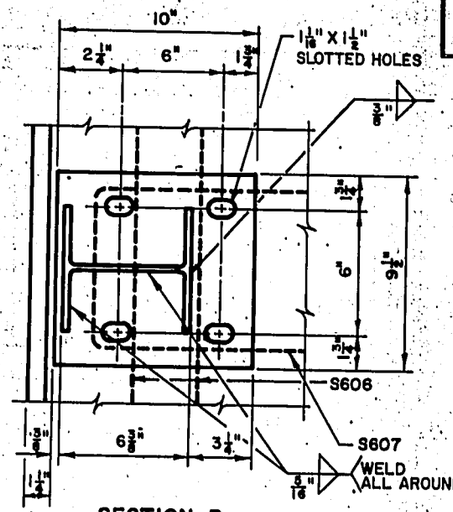
STATE PROJECT NUMBER	SHEET NO.
5770-00-79	8.5



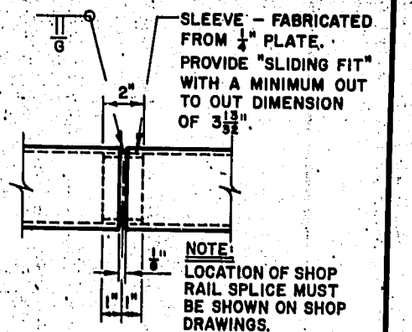
DETAIL AT END POST
(BEAM GUARD RAIL ATTACHMENT)



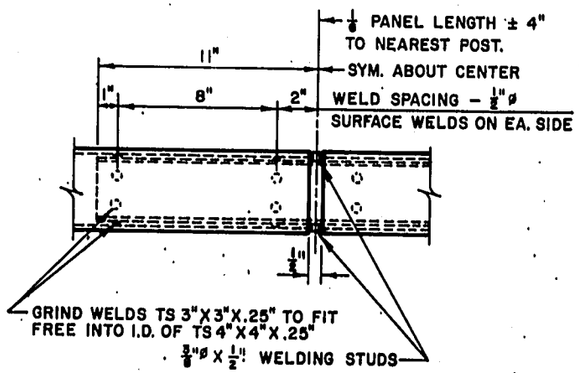
JOINT DETAIL AT ABUTMENT



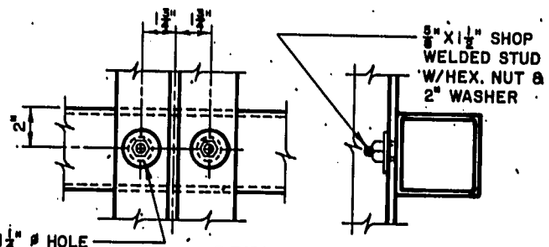
SECTION B



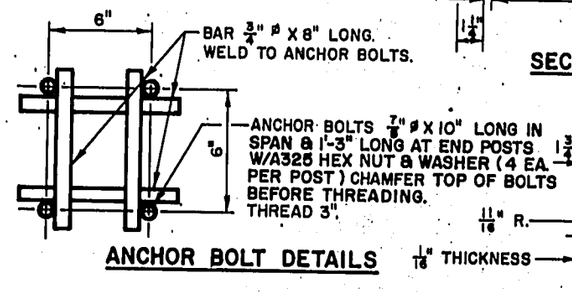
SHOP RAIL SPLICE DETAIL



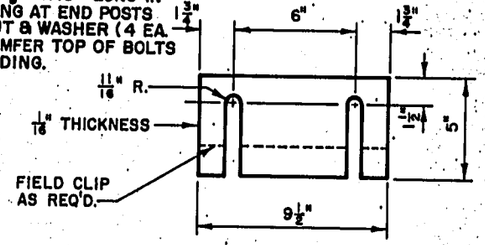
FIELD ERECTION JOINT DETAIL



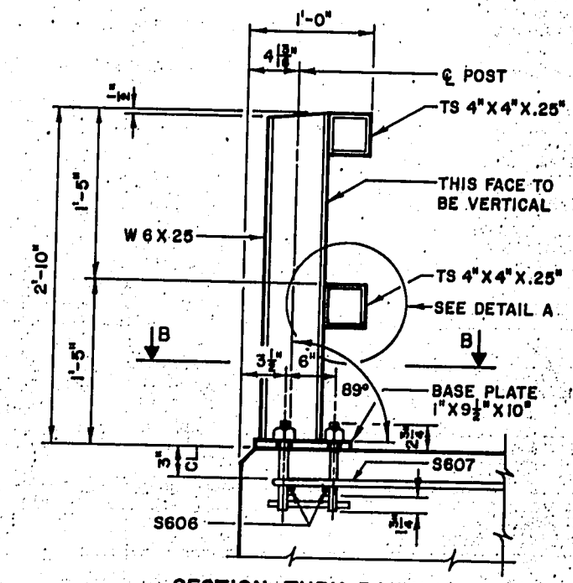
DETAIL A



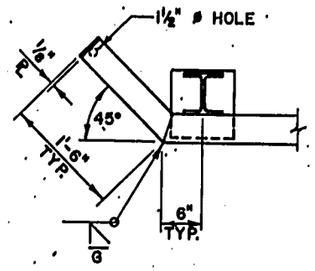
ANCHOR BOLT DETAILS



SHIM PLATE DETAIL
(4 PER POST)



SECTION THRU RAILING



PLAN DETAIL AT END POST

GENERAL NOTES

1. BID ITEM SHALL BE "TUBULAR RAILING, TYPE F", WHICH INCLUDES ALL ITEMS SHOWN.
2. RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.
3. FILL SHIM PLATE SLOTS AND ANCHOR BOLT HOLES WITH A NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER
4. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.
5. RAILING SHALL BE 4X4X.25 STRUCTURAL TUBING CONFORMING TO A.S.T.M. DESIGNATION A36.
6. ANCHOR BOLTS SHALL BE 7/8" ø NOMINAL CONFORMING TO A.S.T.M. DESIGNATION A449 OR MATERIAL OF MINIMUM YIELD STRENGTH OF 92 K.S.I. AND ELONGATION OF 14%.
7. POST, BASE PLATES AND SHIMS SHALL BE MADE FROM MATERIAL CONFORMING TO A.S.T.M. DESIGNATION A36. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST NORMAL TO GRADE LINE.
8. PLACE ANCHOR BOLTS NORMAL TO BASE PLATE.
9. ALL MEMBERS, INCLUDING UPPER 4" OF ANCHOR, SHALL BE GALVANIZED AFTER FABRICATION. A NO. 6 COMMERCIAL BLAST CLEANING, BY S.S.P.C. SPECIFICATIONS, SHALL BE GIVEN TO ALL MEMBERS TO BE GALVANIZED. BLAST CLEANING IS NOT REQUIRED FOR COLD FORMED TUBING; EXCEPT TO REMOVE WELDING SLAG AND IMPERVIOUS SUBSTANCES.
10. WELD WITH E70 ELECTRODES.

No	Date	Revision	By

WESTBROOK ASSOCIATED ENGINEERS, INC.
CONSULTING ENGINEERS
PLAIN, WI 53577

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-934

Const. Spec.	Drawn By	Plans Checked
1989	PCC	GWB

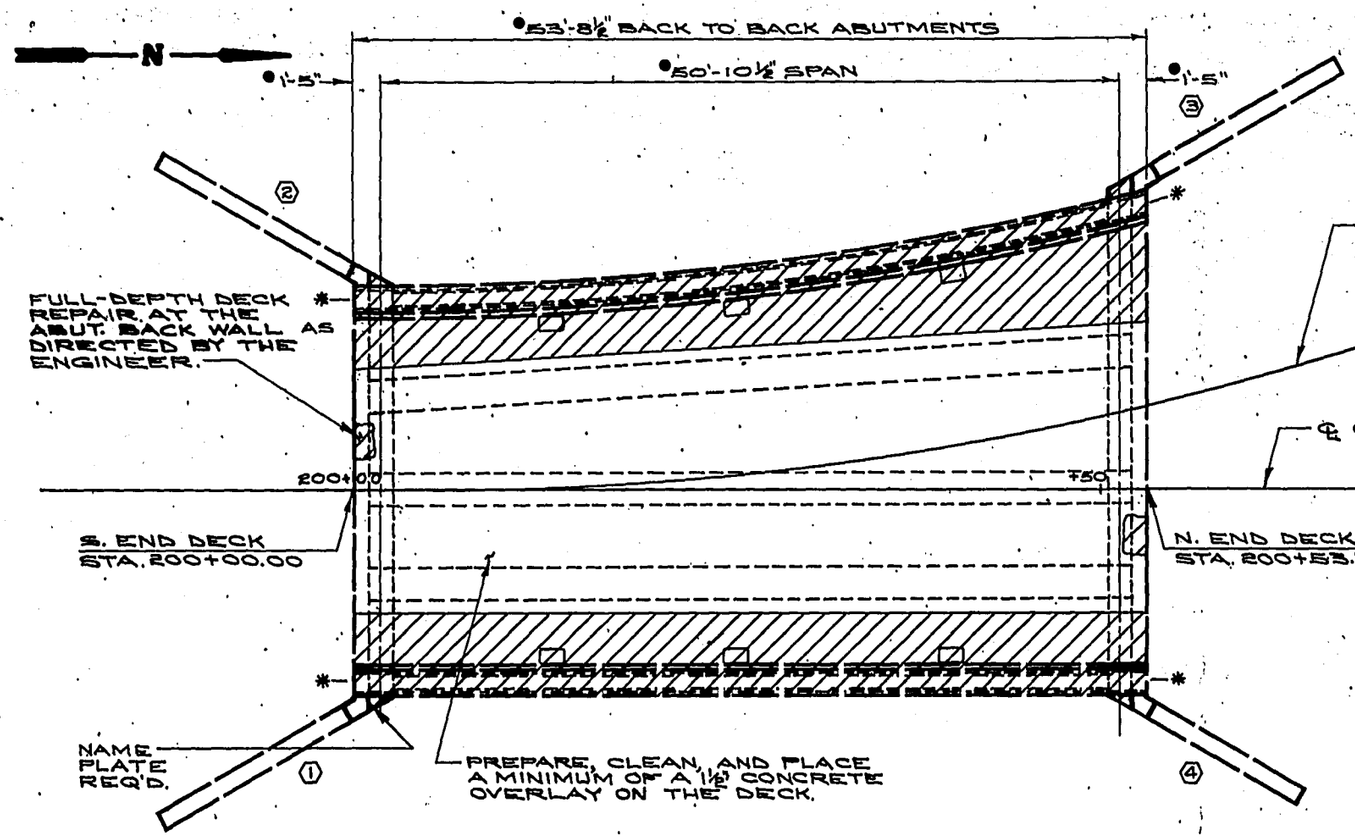
TUBULAR RAILING, TYPE F

SHEET 6 OF 6

X 82871

STATE PROJECT NUMBER	SHEET NO.
5953-01-71	8.6

LIST OF DRAWINGS — X82872

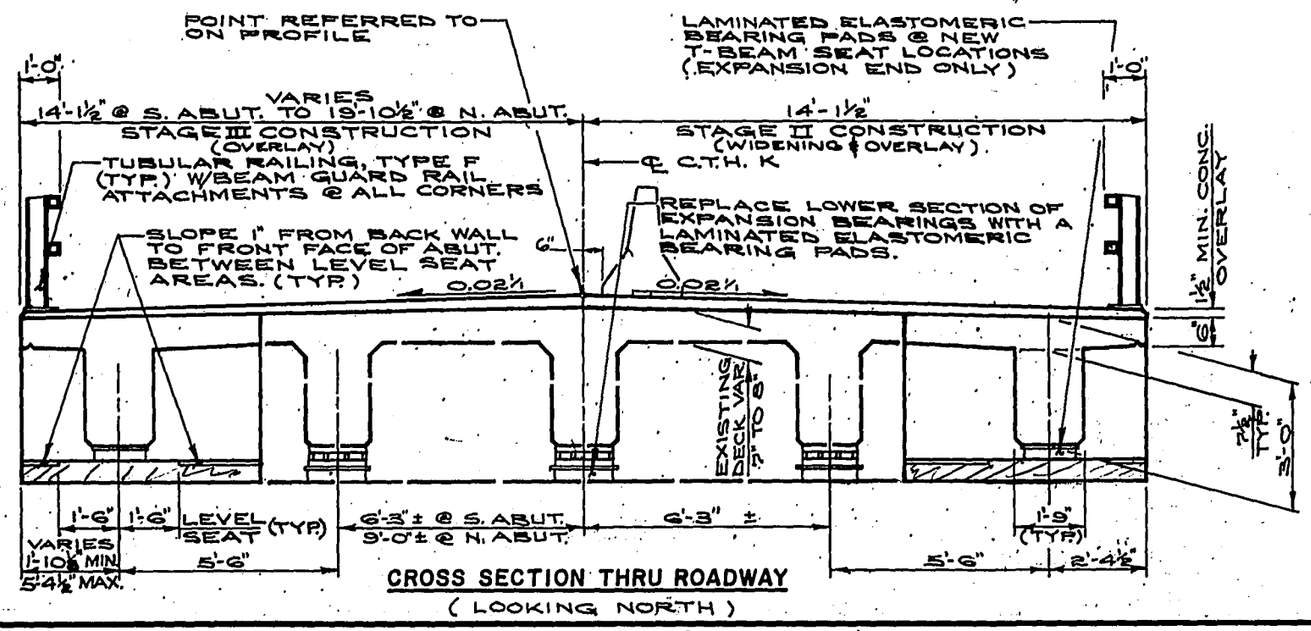


PLAN

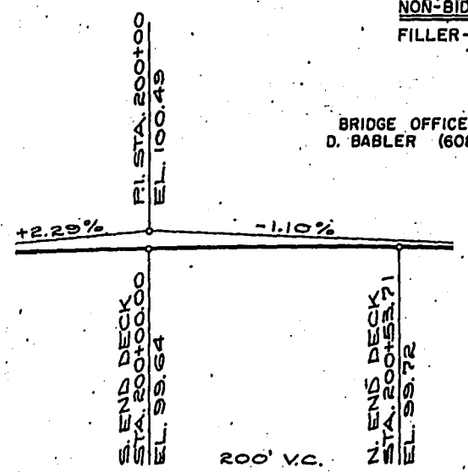
* DENOTES BEAM GUARD ATTACHMENT

▨ DENOTES REMOVAL

AVERAGE OVERLAY THICKNESS = 3"



CROSS SECTION THRU ROADWAY
(LOOKING NORTH)



PROFILE GRADE LINE - S.T.H. 191

DESIGN DATA

LIVE LOAD

INVENTORY RATING	H24, HS17
OPERATIONAL RATING	HS28
MAXIMUM PERMIT VEHICLE	180K

ALLOWABLE DESIGN STRESSES

CONCRETE MASONRY — f'_c	= 4,000 p.s.i.
EXISTING CONCRETE MASONRY — f'_c	= 2,000 p.s.i.
BAR STEEL REINFORCEMENT, GRADE 60 — f_y	= 60,000 p.s.i.
EXISTING REINFORCEMENT STEEL — f_y	= 33,000 p.s.i.

GENERAL NOTES

DRAWING SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 2" CLEAR UNLESS OUTWISE SHOWN OR NOTED.

● DIMENSIONS ARE BASED UPON BRIDGE INSPECTION REPORTS, SURVEY DATA, AND FIELD NOTES. THE CONTRACTOR SHALL VERIFY THEM IN THE FIELD BEFORE ACCEPTANCE.

BENCH MARK

NO.	STATION	DESCRIPTION	ELEVATION
1.	200+00	CHISELED "□" IN S.W. WINGWALL OF STRUCTURE B-25-935, 14' LT.	100.00

TOTAL ESTIMATED QUANTITIES

BID ITEM	UNIT	TOTALS
PROTECTIVE SURFACE TREATMENT	GAL.	8
COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	6,200
PREPARATION, DECKS	S.Y.	105
CLEANING, DECKS	S.Y.	105
FULL-DEPTH DECK REPAIR	S.Y.	5
CONCRETE MASONRY, OVERLAY, DECKS	C.Y.	17
REMOVING OLD BRIDGE, STATION 200+27	L.S.	1
EXCAVATION FOR STRUCTURES, BRIDGES B-25-935	L.S.	1
TUBULAR RAILING, TYPE F, STRUCTURE B-25-935	L.S.	1
LAMINATED ELASTOMERIC BEARING PADS	EA.	2
CONCRETE MASONRY ANCHORS, TYPE L, NO. 5 BARS	EA.	149
NON-LAMINATED ELASTOMERIC BEARING PADS	EA.	2
CONCRETE MASONRY, BRIDGES	C.Y.	23
POLLUTION CONTROL, CLASS II STRUCTURE B-25-935	L.S.	1
BEARING REPLACEMENT	EA.	3
STRUCTURE REPAINTING, ORGANIC ZINC RICH SYSTEM, STRUCTURE B-25-935	L.S.	1

NON-BID ITEM

FILLER	SIZE-1/2" & 3/4"

No.	Date	Revision	By

BRIDGE OFFICE CONTACT
D. BABLER (608) 266-8486

WESTBROOK ASSOCIATED ENGINEERS, INC.
CONSULTING ENGINEERS
PLAIN, WI 53577

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-935

S.T.H. 191 & C.T.H. K OVER DODGE BRANCH

County IOWA		Town/City/Village HOLLANDALE	
Design Spec A.A.S.H.T.O. 1989		Load —	Const. Spec. 1989
Designed By JJK	Design Checked GWB	Drawn By PCC	Plans Checked JJK

Approved Stanley W. Woods, State Bridge Engineer — Date 2-20-90

DECK OVERLAY

SHEET 1 OF 5

X82872

Form E-B-11-69

STATE PROJECT NUMBER	SHEET NO.
5953-01-71	8.7

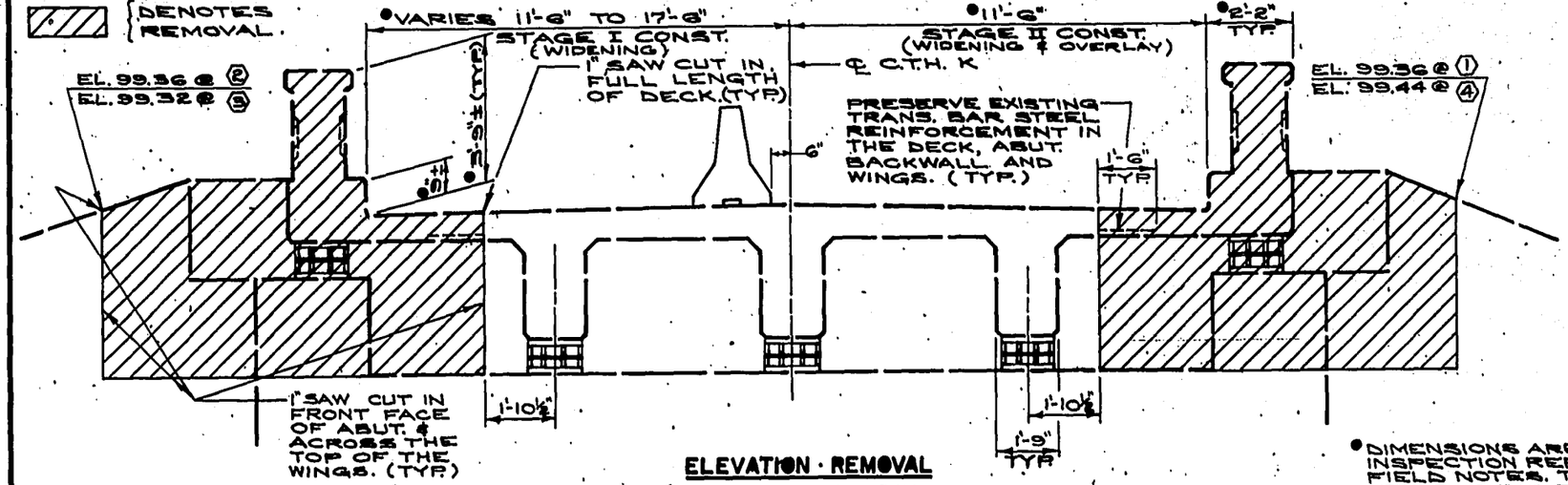
THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

BILL OF BARS · COATED — 550 LBS.

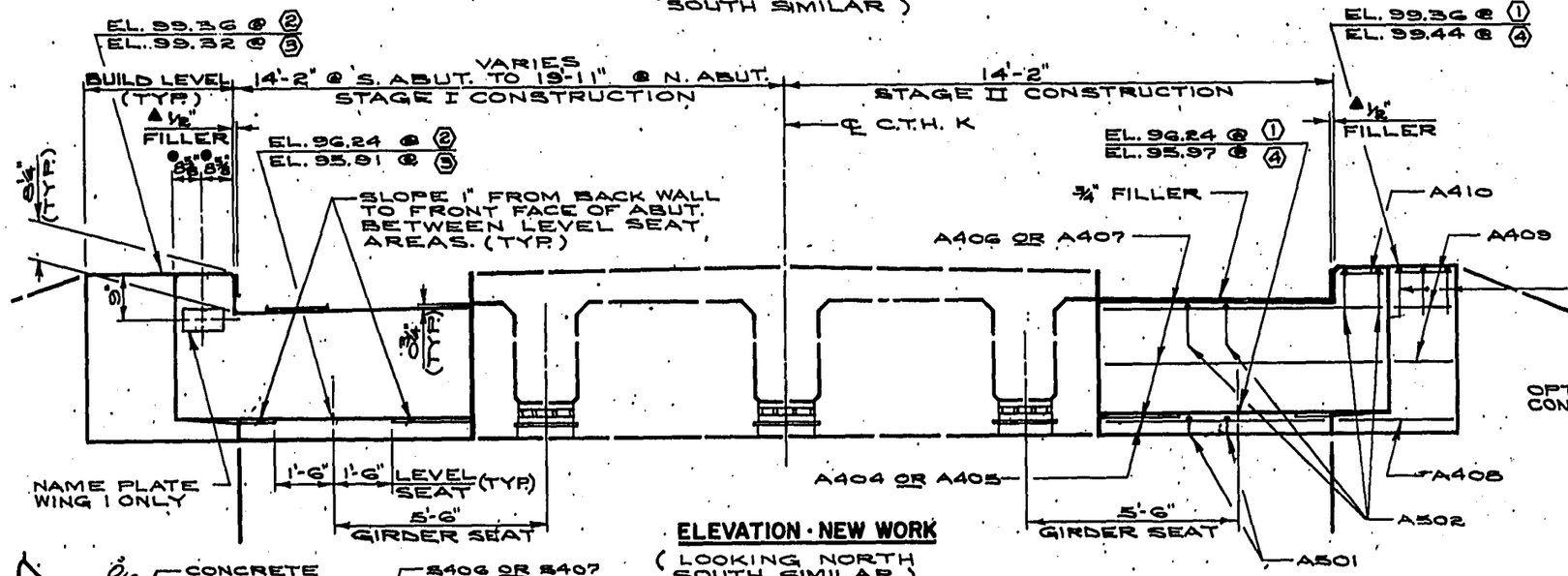
MARK	NO. REQ'D.	LENGTH	BENT	LOCATION
A501	39	2-11	X	ABUT. - SEAT - TIES VERT.
A502	45	2-3	X	" - BACK WALL - TIES "
A503	12	2-6	X	" - WING WALL - " "
A404	9	7-9		" - SEAT @ WINGS 1, 2, & 4 HORIZ.
A405	3	10-9		" - " @ WING 3 "
A406	16	9-3		" - BACK WALL @ 1, 2, & 4 "
A407	6	12-3		" - " " @ WING 3 "
A408	8	4-2		" - WINGS "
A409	24	2-1		" - " "
A410	8	1-6		" - BACK WALL "

DENOTES REMOVAL.

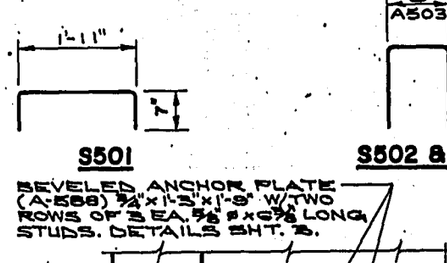


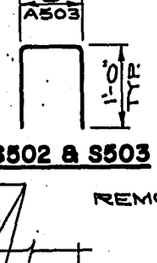
ELEVATION · REMOVAL
(LOOKING NORTH
SOUTH SIMILAR)

● DIMENSIONS ARE BASED UPON BRIDGE INSPECTION REPORTS, SURVEY DATA, AND FIELD NOTES. THE CONTRACTOR SHALL VERIFY THEM BEFORE ACCEPTANCE.

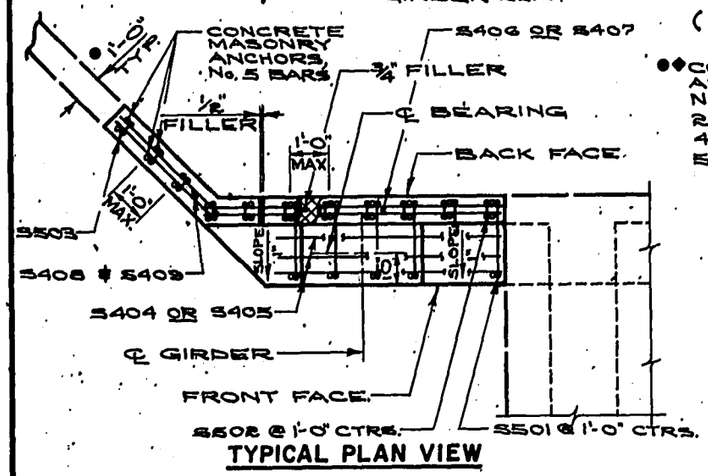


ELEVATION · NEW WORK
(LOOKING NORTH
SOUTH SIMILAR)



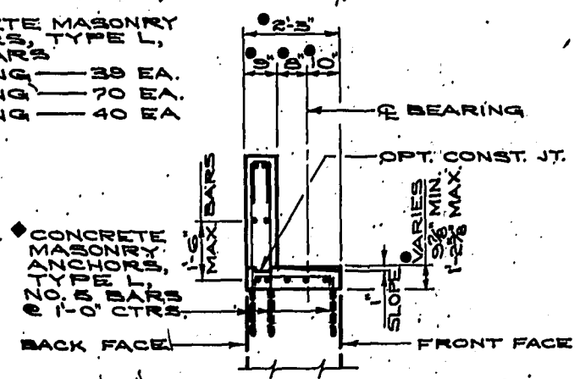


▲ SEAL ALL EXPOSED SURFACES OF FILLER W/NON-STAING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ¼" BELOW CONCRETE SURFACE.)



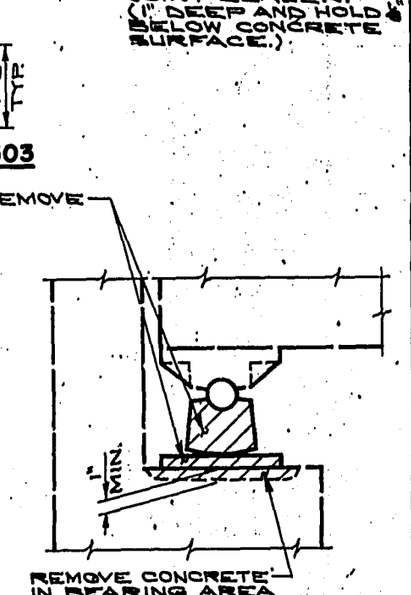
TYPICAL PLAN VIEW

●● CONCRETE MASONRY ANCHORS, TYPE L, No. 5 BARS
2'-1" LONG — 39 EA.
4'-6" LONG — 70 EA.
5'-2" LONG — 40 EA

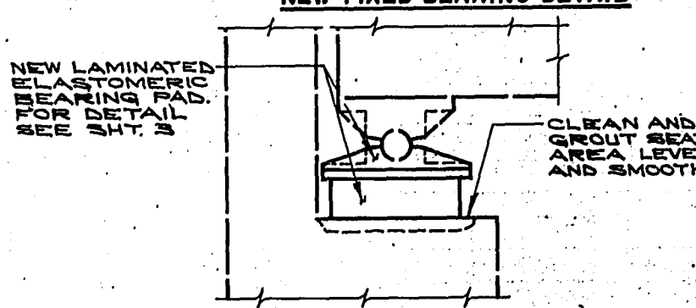


TYPICAL SECTION THRU ABUT. BODY

NEW FIXED BEARING DETAIL



AT EXPANSION BEARINGS



EXISTING EXPANSION BEARING REPLACEMENT

BEARING DETAILS

No.	Date	Revision	By

WESTBROOK ASSOCIATED ENGINEERS, INC.
CONSULTING ENGINEERS
PLAIN, WI 53577

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-935

Const. Spec.	Drawn By	Plans Checked
1989	PCC	JJK

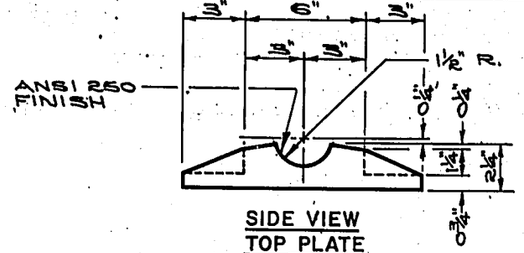
ABUTMENTS

SHEET 2 OF 5

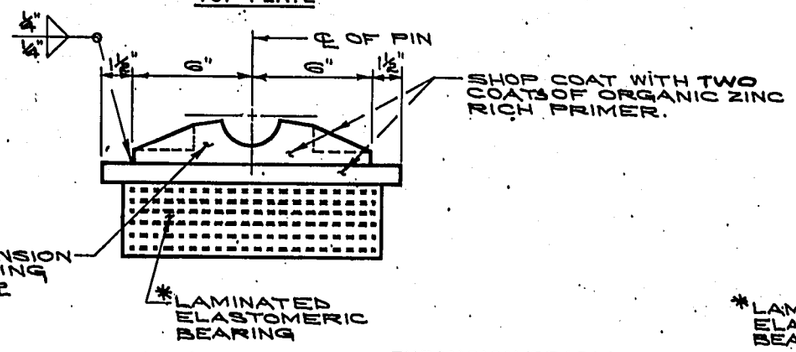
X82872

5348

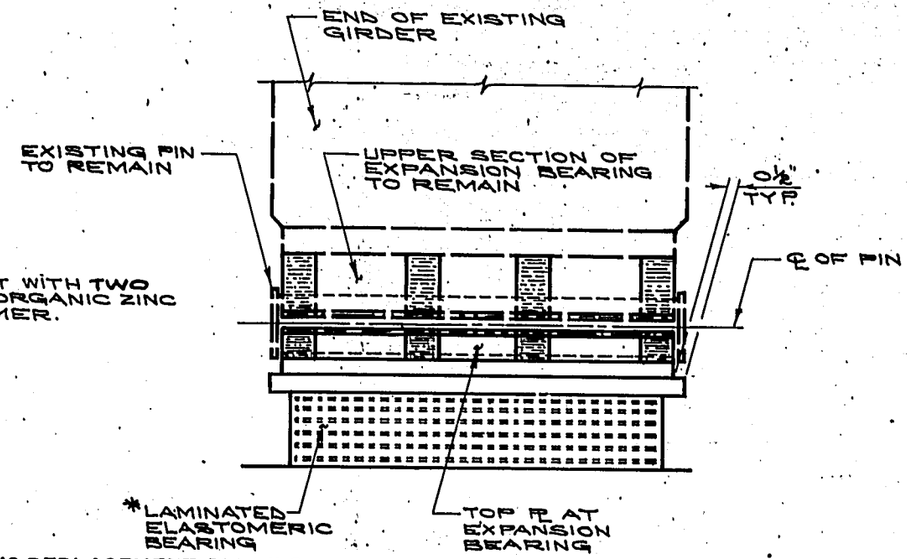
STATE PROJECT NUMBER	SHEET NO.
5953-01-71	8B



SIDE VIEW
TOP PLATE

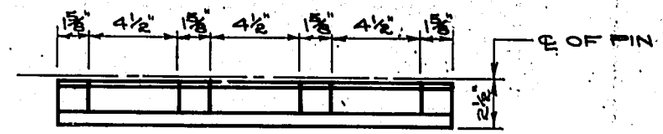


SIDE VIEW

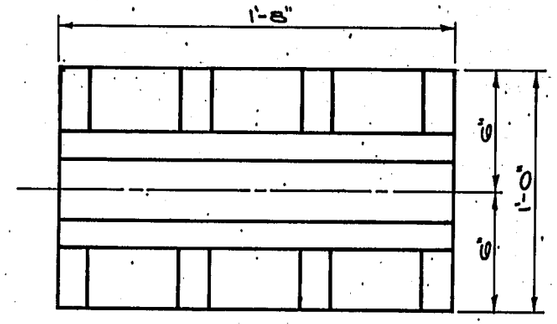


END VIEW

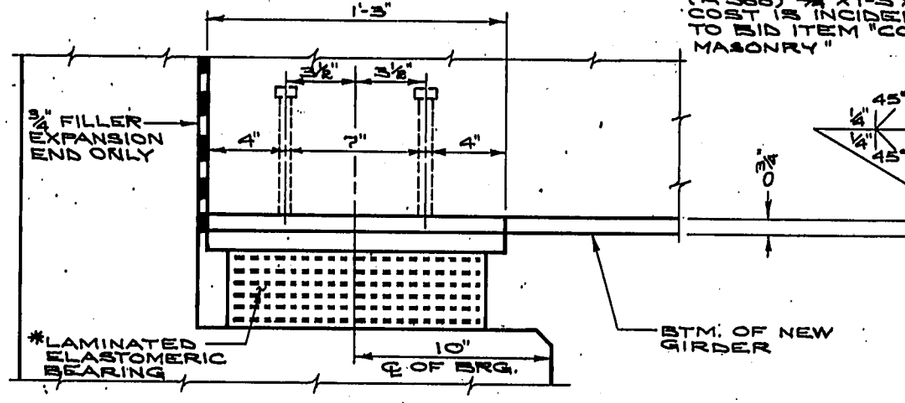
EXPANSION BEARING REPLACEMENT DETAILS



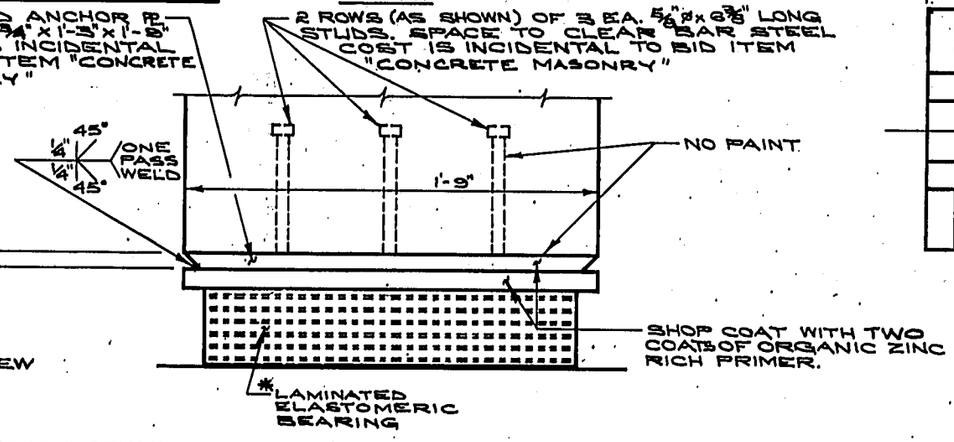
END VIEW - TOP PLATE



TOP VIEW - TOP PLATE

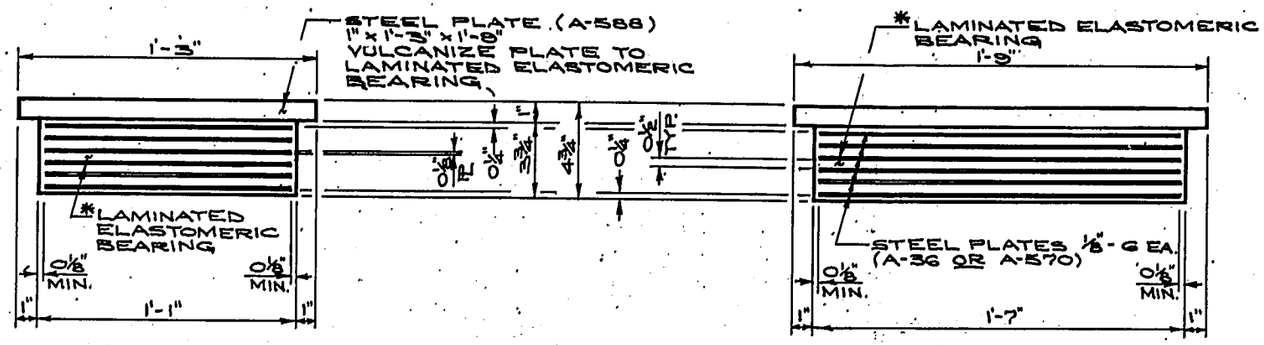


SIDE VIEW



END VIEW

NEW EXPANSION BEARING DETAILS



SIDE VIEW

END VIEW

LAMINATED ELASTOMERIC BEARING PADS

*LAMINATED ELASTOMERIC BEARING (DUROMETER 55 ± 5) SHALL NOT BE PLACED AT A TEMPERATURE GREATER THAN 70° F.

No.	Date	Revision	By

WESTBROOK ASSOCIATED ENGINEERS, INC.
CONSULTING ENGINEERS
PLAIN, WI 53577

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-935

Const. Spec.	Drawn By	Plans Checked
1989	PCC	JJK

BEARINGS

SHEET 3 OF 5

X82872

5348

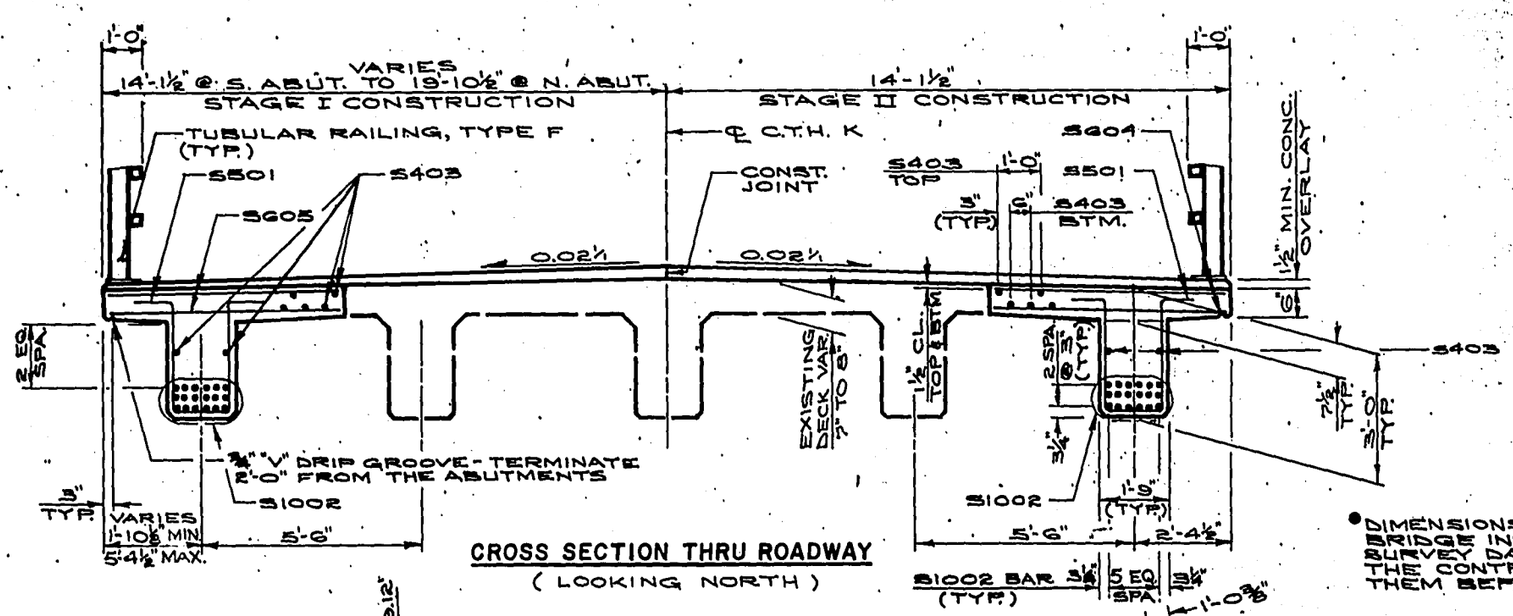
THE FIRST DIGIT OF A 3 DIGIT BAR MARK AND THE FIRST DIGITS OF A 4 DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

STATE PROJECT NUMBER	SHEET NO.
5953-01-71	8.9.

BILL OF BARS COATED 15,650 LBS.

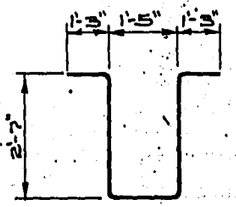
MARK	NO. REQ'D.	LENGTH	BENT	CUT DIAG.	LOCATION
S501	146	8-9	X		DECK-GIRDER STIRRUPS-TRANS.
S1002	36	51-9			GIRDERS LONG.IT
S403	92	27-10			" " DECK-TOP & BTM.- "
S604	213	5-9			DECK-E. SIDE-TOP & BTM. TRANS.
S605	106	14-6		X	" -W. " - " " "
S606	16	10-6	X		" @ RAIL POSTS "
S607	32	4-0			" @ " " LONG.IT.



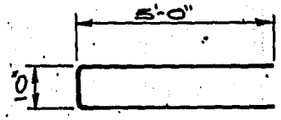
CROSS SECTION THRU ROADWAY

(LOOKING NORTH)

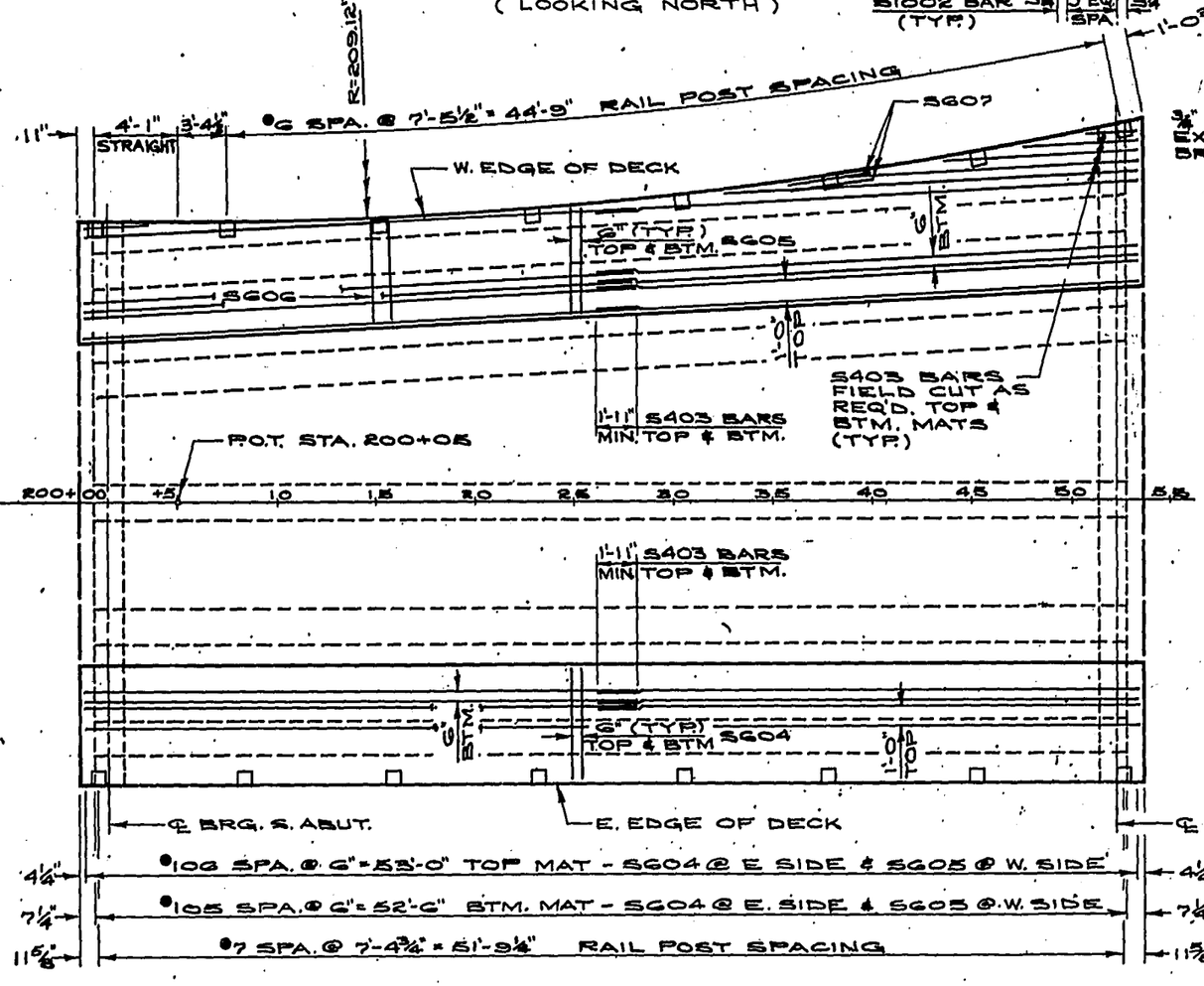
•DIMENSIONS ARE BASED UPON BRIDGE INSPECTION REPORTS, SURVEY DATA, AND FIELD NOTES. THE CONTRACTOR SHALL VERIFY THEM BEFORE ACCEPTANCE.

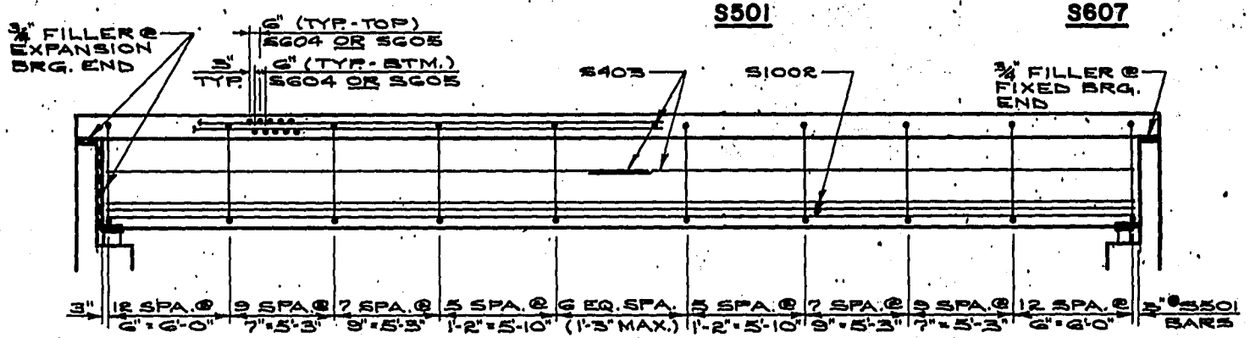


S501



S607



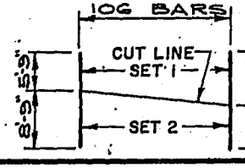


LONGITUDINAL SECTION

STATION	OFFSET LEFT	ELEVATION	OFFSET RIGHT	ELEVATION
200+00	14-1½	99.36	14-1½	99.36
+05	14-1½	99.39		99.39
+10	14-2¼	99.41		99.41
+15	14-4⅜	99.43		99.43
+20	14-8	99.43		99.45
+25	15-1	99.44		99.46
+30	15-7½	99.43		99.46
+35	16-3½	99.42		99.46
+40	17-0⅞	99.40		99.46
+45	17-11⅞	99.38		99.46
+50	19-0¼	99.35		99.45
+53.71	19-10½"	99.32		99.44

EDGE OF DECK OFFSET DISTANCE AND TOP OF DECK (EDGE) ELEVATIONS

CUTTING DIAGRAM - S605



CONTRACTOR SHALL CUT TRANSVERSE DECK BARS (S605) IN THE FIELD AND EPOXY TREAT DAMAGED TO PROVIDE MINIMUM 2" CLEAR. ALL BAR CUTS WILL BE NORMAL TO THE BAR AXIS. PAYMENT FOR ALL FIELD CUTTING AND TREATMENT SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES".

No	Date	Revision	By

WESTBROOK ASSOCIATED ENGINEERS, INC. PLAIN, WI 53577

CONSULTING ENGINEERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-935

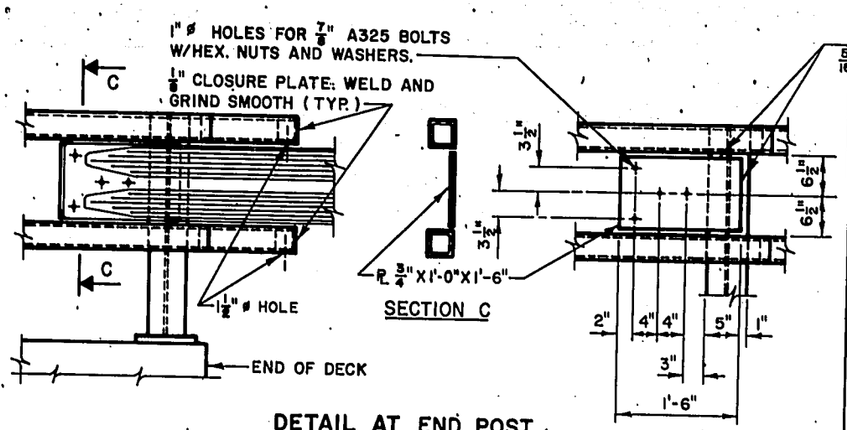
Const. Spec.	Drawn By	Plans Checked
1989	PCC	JJK

SUPERSTRUCTURE

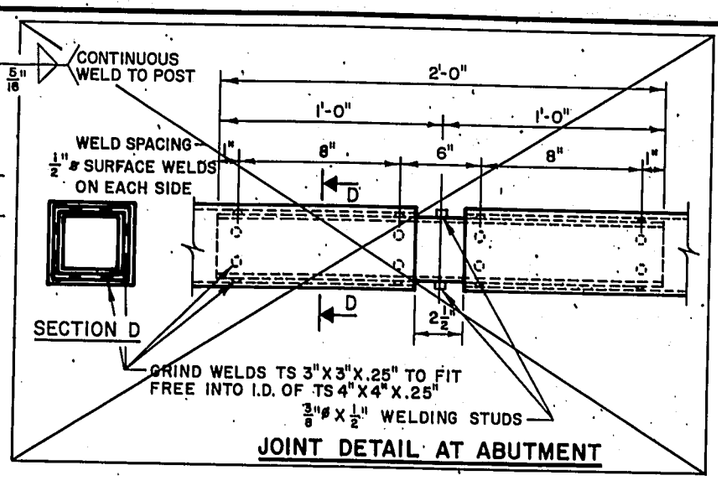
SHEET 4 OF 5.

X82872

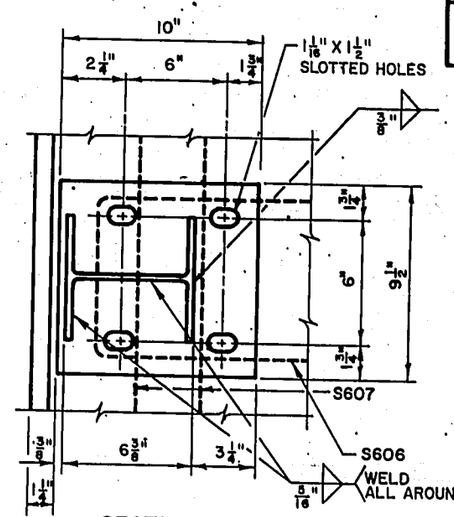
5348



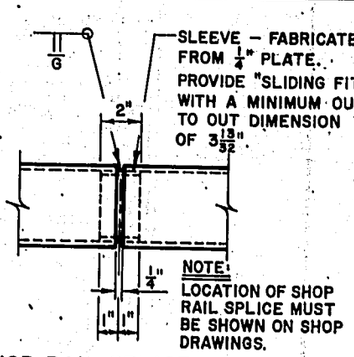
DETAIL AT END POST
(BEAM GUARD RAIL ATTACHMENT)



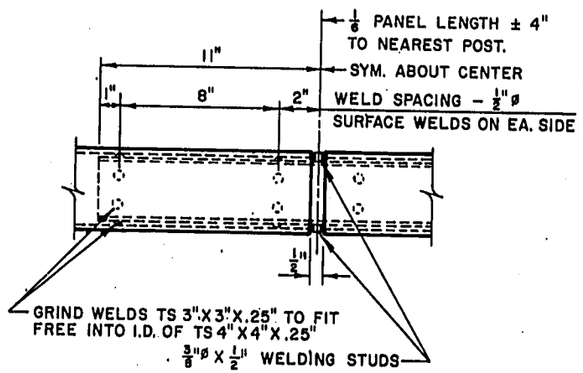
JOINT DETAIL AT ABUTMENT



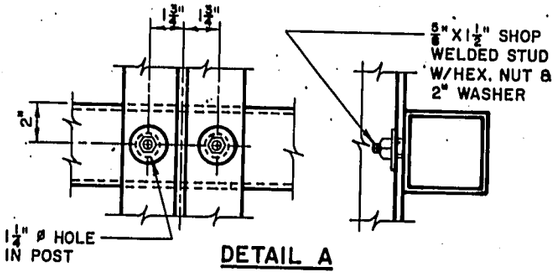
SECTION B



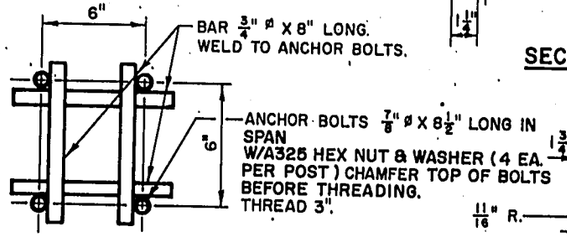
SHOP RAIL SPLICE DETAIL



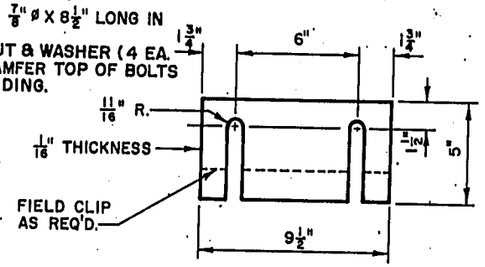
FIELD ERECTION JOINT DETAIL



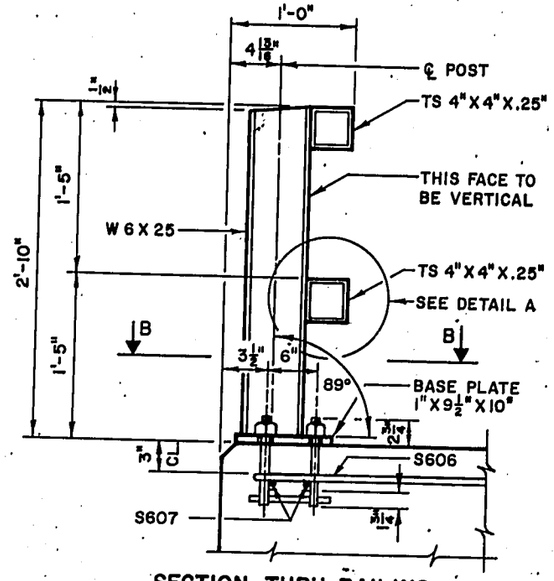
DETAIL A



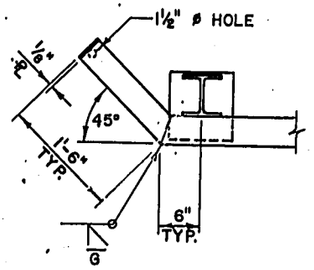
ANCHOR BOLT DETAILS



SHIM PLATE DETAIL
(4 PER POST)



SECTION THRU RAILING



RLAN DETAIL AT END POST

GENERAL NOTES

1. BID ITEM SHALL BE "TUBULAR RAILING, TYPE F", WHICH INCLUDES ALL ITEMS SHOWN.
2. RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.
3. FILL SHIM PLATE SLOTS AND ANCHOR BOLT HOLES WITH A NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER
4. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.
5. RAILING SHALL BE 4X4X.25 STRUCTURAL TUBING CONFORMING TO A.S.T.M. DESIGNATION A36.
6. ANCHOR BOLTS SHALL BE 7/8"ø NOMINAL CONFORMING TO A.S.T.M. DESIGNATION A449 OR MATERIAL OF MINIMUM YIELD STRENGTH OF 92 K.S.I. AND ELONGATION OF 14%.
7. POST, BASE PLATES AND SHIMS SHALL BE MADE FROM MATERIAL CONFORMING TO A.S.T.M. DESIGNATION A36. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST NORMAL TO GRADE LINE.
8. PLACE ANCHOR BOLTS NORMAL TO BASE PLATE.
9. ALL MEMBERS, INCLUDING UPPER 4" OF ANCHOR, SHALL BE GALVANIZED AFTER FABRICATION. A NO. 6 COMMERCIAL BLAST CLEANING, BY S.S.P.C. SPECIFICATIONS, SHALL BE GIVEN TO ALL MEMBERS TO BE GALVANIZED. BLAST CLEANING IS NOT REQUIRED FOR COLD FORMED TUBING; EXCEPT TO REMOVE WELDING SLAG AND IMPERVIOUS SUBSTANCES.
10. WELD WITH E70 ELECTRODES.

STATE PROJECT NUMBER	SHEET NO.
5953-01-71	8,10

No.	Date	Revision	By

WESTBROOK ASSOCIATED ENGINEERS, INC.
PLAIN, WI 53577

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-25-935

Const. Spec.	Drawn By	Plans Checked
1989	PCC	JJK

TUBULAR RAILING, TYPE F

SHEET 5 OF 5

X82872

5348