

State

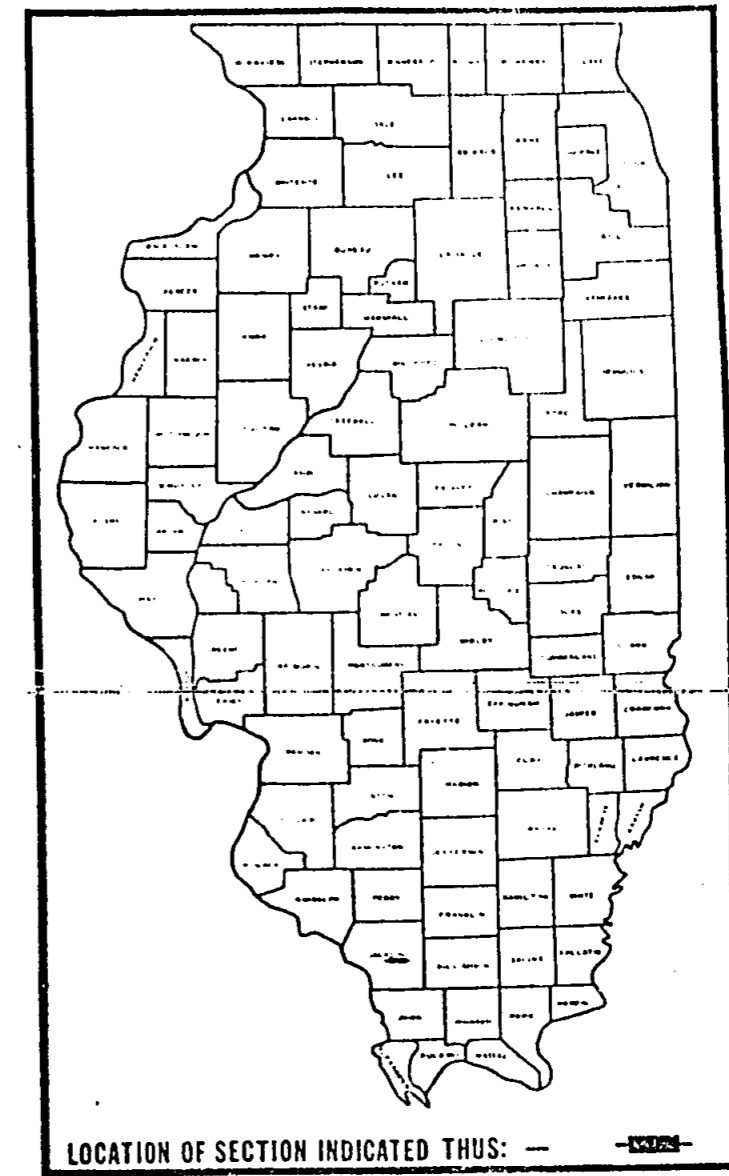
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

F.A. ROUTE 107 (ILL. ROUTE 13)
SECTION 12-(IVBY, IBY-1, IBJ-2, IB-2-1)
PROJECT FR-107 (21)
JACKSON COUNTY

INDEX OF SHEETS	SHEET NO. <u>2</u>
SUMMARY OF QUANTITIES	SHEET NO. <u>2</u>

STA.	SECTION	COUNTY	DATE
F.A. 107	12	JACKSON	7/31
* 12-(IVBY, IBY-1, IBJ-2, IB-2-1)			



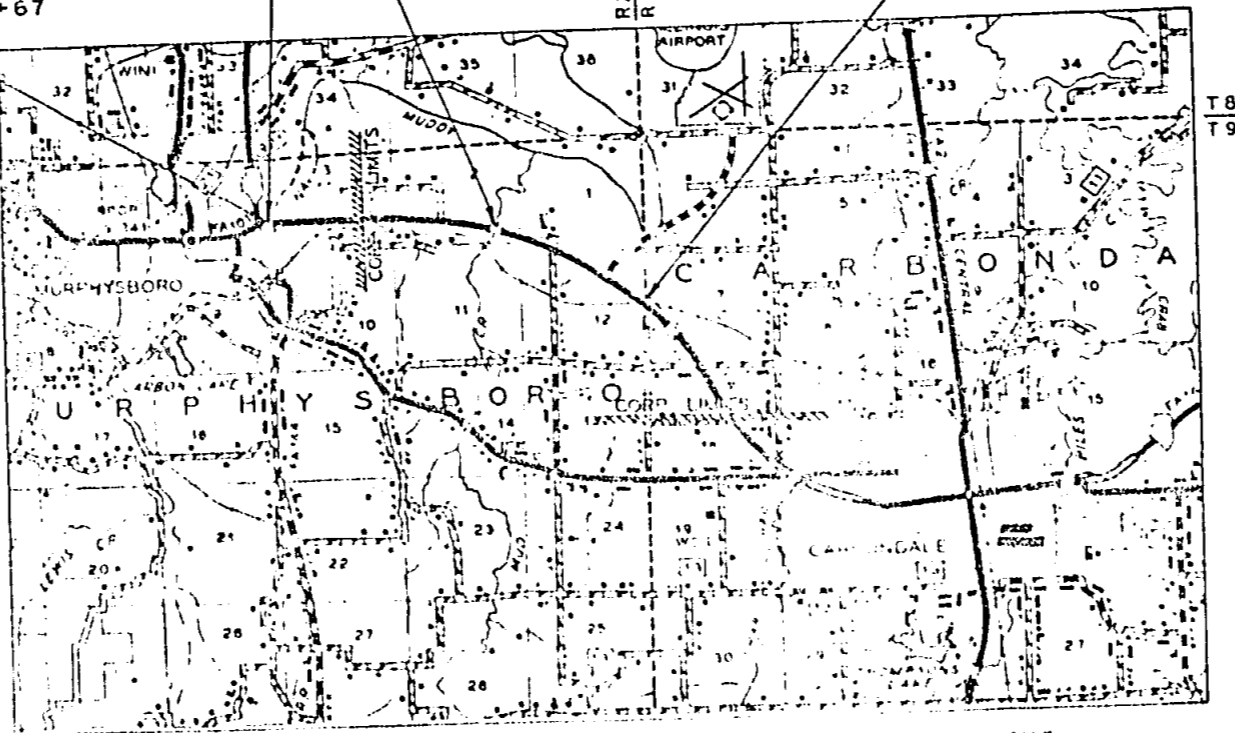
C-99-077-78

SECTION 12-IBJ-2 INCLUDES REPLACING THE EXISTING METAL HANDRAIL ON THE SOUTH STRUCTURE OVER THE BIG MUDDY RIVER WITH NEW CONCRETE PARAPETS, RECONSTRUCTING THE EXISTING EXP. JOINTS & RESURFACING FROM STA. 338+29 TO STA 343+67

SECTION 12-IBY-1 INCLUDES WIDENING THE DECK OF THE EXISTING SOUTH STRUCTURE OVER MUD CREEK CONSTRUCTING NEW CONCRETE PARAPETS, AND RESURFACING FROM STA. 241+75 TO STA. 245+07

SECTION 12-IVBY INCLUDES WIDENING THE DECK OF THE EXISTING SOUTH STRUCTURE OVER THE I.C.G.R.R. CONSTRUCTING NEW CONCRETE PARAPETS, AND RESURFACING FROM STA. 168+09 TO STA. 171+44

SECTION 12-IB-2-1 INCLUDES REPLACING THE BEARINGS & REPAIRING THE GIRDERS ON THE SOUTH STRUCTURE OVER THE BIG MUDDY RIVER.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXAMINED July 31 1978
DESIGNED Oct 10 1978
PASSED Oct 10 1978
APPROVED Oct 10 1978

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED
DIVISION ADMINISTRATOR DATE
and 2/6/79

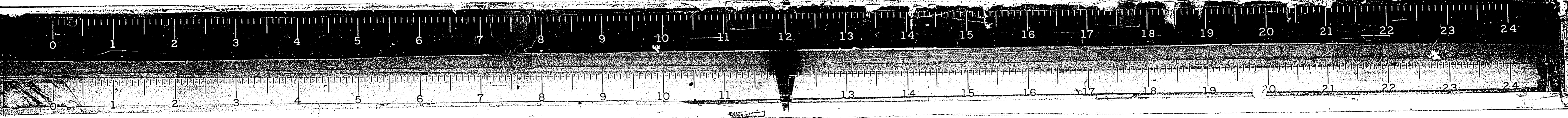
URBAN LIMITS ON THIS PROJECT ARE FROM STA 238+23 TO STA 343+67

NET LENGTH SEC. 12-IVBY = 335.00 FT. = 0.063 MI.
SEC. 12-IBY-1 = 334.00 FT. = 0.063 MI.
SEC. 12-IBJ-2 = 548.00 FT. = 0.102 MI.
NET PROJECT LENGTH = 1207.00 FT. = 0.228 MI.

GRASS PROJECT LENGTH = 17625.57 FT. = 333.8 MI.

CONTRACT NO. 13516

JACKSON COUNTY SECTION 12-(IVBY, IBY-1, IBJ-2, IB-2-1) F.A. ROUTE 107



FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

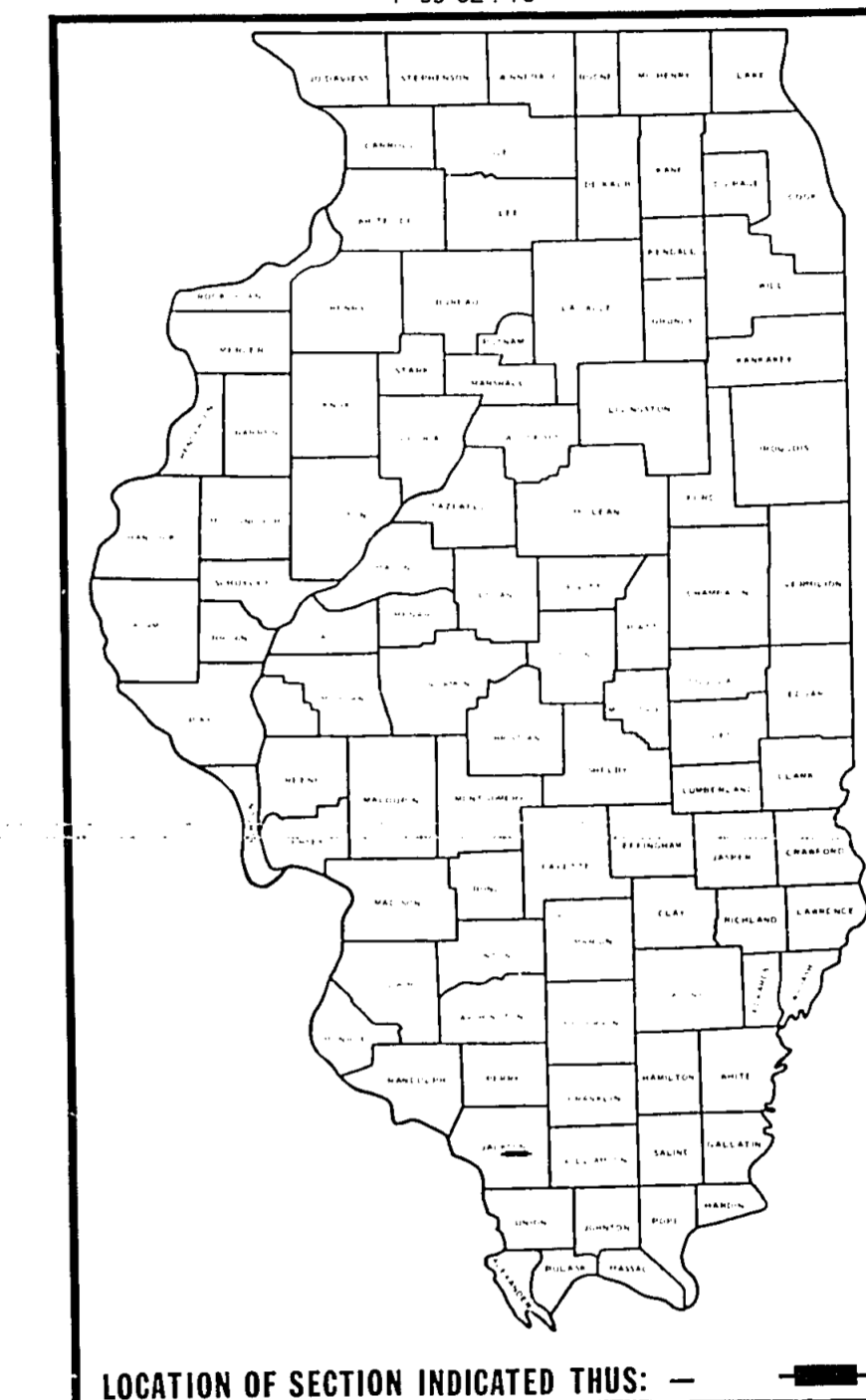
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

F.A. ROUTE 107 (ILL. ROUTE 13)
SECTION 12-(IVBY, IBY-1, IBJ-2, IB-2-I)
PROJECT FR-107 (21)
JACKSON COUNTY

INDEX OF SHEETS	SHEET NO. <u>2</u>
SUMMARY OF QUANTITIES	SHEET NO. <u>2</u>

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 107		JACKSON	21	1
ILLINOIS PROJECT				
* 12-(IVBY, IBY-1, IBJ-2, IB-2-I)				

P-99-024-76



LOCATION OF SECTION INDICATED THUS: —

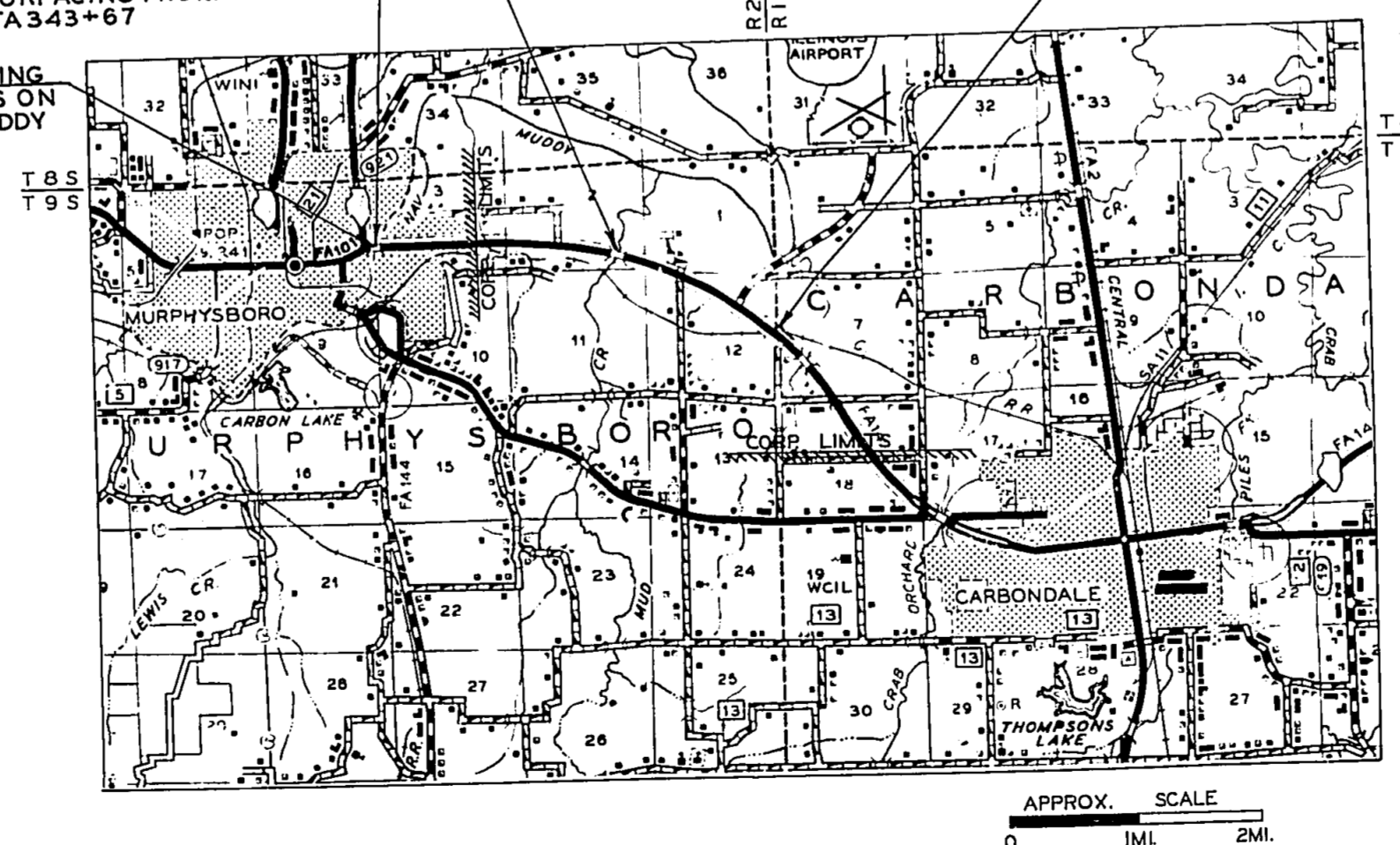
C-99-077-78

SECTION 12-IBJ-2 INCLUDES REPLACING THE EXISTING METAL HANDRAIL ON THE SOUTH STRUCTURE OVER THE BIG MUDDY RIVER WITH NEW CONCRETE PARAPETS, RECONSTRUCTING THE EXISTING EXP. JOINTS & RESURFACING FROM STA. 338+29 TO STA 343+67

SECTION 12-IBY-1 INCLUDES WIDENING THE DECK OF THE EXISTING SOUTH STRUCTURE OVER MUD CREEK CONSTRUCTING NEW CONCRETE PARAPETS, AND RESURFACING FROM STA. 241+73 TO STA. 245+07

SECTION 12-IVBY INCLUDES WIDENING THE DECK OF THE EXISTING SOUTH STRUCTURE OVER THE I.C.G.R.R., CONSTRUCTING NEW CONCRETE PARAPETS, AND RESURFACING FROM STA. 168+09 TO STA. 171+44

SECTION 12-IB-2-I INCLUDES REPLACING THE BEARINGS & REPAIRING THE GIRDERS ON THE SOUTH STRUCTURE OVER THE BIG MUDDY RIVER.



URBAN LIMITS ON THIS PROJECT ARE FROM STA 338+29 TO STA 343+67

NET LENGTH SEC. 12-IVBY = 335.00 FT. = 0.063 MI.
SEC. 12-IBY-1 = 334.00 FT. = 0.063 MI.
SEC. 12-IBJ-2 = 538.00 FT. = 0.102 MI.
NET PROJECT LENGTH = 1,207.00 FT. = 0.228 MI.

GROSS PROJECT LENGTH = 17,625.57 FT. = 3.338 MI.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 31, 1978

EXAMINED Oct. 10, 1978 DISTRICT ENGINEER

PASSED Oct. 10, 1978 ENGINEER OF PLANS AND CONTRACTS

APPROVED Oct. 10, 1978 ENGINEER OF DESIGN

John W. Monahan CHIEF TRANSPORTATION ENGINEER

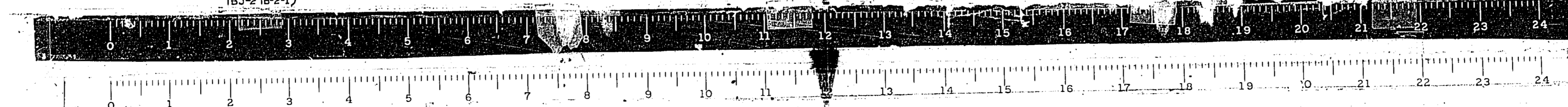
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR DATE

CONTRACT NO. 33516

JACKSON COUNTY SECTION 12-(IVBY, IBY-1, IBJ-2, IB-2-I) F.A. ROUTE 107



FOR INFORMATION ONLY

Rev. 1-24-77

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE			
				X131	X031	X031	X031
LOCATION OF WORK				SEC. 12-1VBY (I.C.G. RAILROAD BRIDGE WIDENING & EXP. JOINTS)	SEC. 12-1BY-1 (MUD CREEK BRIDGE WIDENING & EXP. JOINTS)	SEC. 12-1BJ-2 (BIG MUDDY RIV. BRIDGE NEW PARAPET & EXP. JOINTS)	SEC. 12-1B-2-I (BIG MUDDY RIV. BRIDGE REPL. BRGS & REPAIR GRDS)
T50102	THERMOPLASTIC PAVEMENT MARKING - LINE A"	LIN. FT.	2740	760	760	1220	—
X04614	THREADED RODS, 1 INCH DIAMETER	EACH	1236	—	—	1236	—
X05020	MOVABLE DOUBLE CONCRETE BARRIER	LIN. FT.	1060	300	260	500	—
X05381	ELASTOMERIC BEARINGS	EACH	10	—	—	—	10
X05383	GIRDER END REPAIR	EACH	4	—	—	—	4
X50714	STEEL PEDESTALS	EACH	10	—	—	—	10
X06402	TRAFFIC BARRIER TERMINAL, SPECIAL	EACH	2	—	—	2	—
Z10181	DECK SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.	21	7	7	7	—
Z10279	NEOPRENE EXPANSION JOINT 2"	LIN. FT.	136	96	—	40	—
Z10281	NEOPRENE EXPANSION JOINT 4"	LIN. FT.	40	—	—	40	—
Z10328	PREFORMED JOINT SEALER 2 1/2"	LIN. FT.	34	—	34	—	—
Z10329	PREFORMED JOINT SEALER 4"	LIN. FT.	34	—	34	—	—
Z10530	WATERPROOFING MEMBRANE SYSTEM	SQ. YD.	2637	743	594	1300	—
XZ1422	JACKING AND SHORING EXISTING GIRDERS	EACH	10	—	—	—	10
215001	AGGREGATE SHOULDERS, TYPE A	TON	26	7	12	7	—
406013	BITUMINOUS CONCRETE SURFACE CSE., MIX. D, CLASS I	TON	436	120	143	173	—
501024	CONCRETE REMOVAL	CU. YD.	173.9	91.0	79.0	3.9	—
501041	BRIDGE HANDRAIL REMOVAL	LIN. FT.	831	—	—	831	—
503001	FLOOR DRAINS	EACH	44	32	12	—	—
503003	PROTECTIVE COAT	SQ. YD.	598	174	141	283	—
504003	CLASS X CONCRETE	CU. YD.	262.1	109.8	91.9	60.4	—
507004	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	6860	—	3030	3830	—
508005	ALUMINUM RAILING	LIN. FT.	819	—	—	819	—
512001	REINFORCEMENT BARS	POUND	40,760	20,090	16,810	3860	—
514001	NAME PLATES	EACH	3	1	1	1	—
617010	BITUMINOUS CONCRETE SURFACE REMOVAL	SQ. YD.	1968	668	—	1300	—
646004	ENGINEER'S FIELD OFFICE, TYPE A	CAL. MO.	15	4	4	5	2
647001	PAVEMENT MARKING TAPE	LIN. FT.	50	14	14	22	—
648008	TRAFFIC CONTROL AND PROTECTION, STD 2316	L. SUM	1	0.25	0.25	0.4	—
X04748	MOBILIZATION	L. SUM	1	0.25	0.25	0.25	0.25
X62844	TRAFFIC BARRIER TERMINAL, TYPE G	EACH	4	2	2	—	—
633003	STEEL PLATE BEAM GUARD RAIL REMOVAL	LIN. FT.	100	50	50	—	—

GENERAL NOTES

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS

THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

PRIMING OF THE EXISTING PAVEMENT APPROACHING THE BRIDGES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE BITUMINOUS CONCRETE. APPROXIMATE QUANTITIES INVOLVED ARE AS FOLLOWS: BITUMINOUS MATERIALS, PRIME COAT = 90 GAL., AGGREGATE PRIME COAT = 1.5 TONS.

THE QUANTITY SHOWN IN THE PLANS FOR DECK SLAB REPAIR, PARTIAL DEPTH, IS ONLY AN ESTIMATE. THE ACTUAL AMOUNT CONSTRUCTED AND PAID FOR SHALL BE DETERMINED BY THE ENGINEER.

THE SALVAGED MOVABLE CONCRETE BARRIER IS TO BE STORED ON THE JOB SITE.

INDEX OF SHEETS

- TITLE SHEET
- SUMMARY OF QUANTITIES, GENERAL NOTES, INDEX OF SHEETS
- PLAN, PROFILE, TYPICAL SECTIONS
- SCHEDULES, DETAILS: STEEL PLATE BEAM GUARDRAIL, BIT. RAMPS AT CURBS.
- 5-11 BRIDGE PLANS: SEC. 12-1VBY (I.C.G. RAILROAD)
- 12-17 BRIDGE PLANS: SEC. 12-1BY-1 (MUD CREEK)
- 18-23 BRIDGE PLANS: SEC. 12-1BJ-2 (BIG MUDDY PARAPET & EXP. JOINTS)
- 24-26 BRIDGE PLANS: SEC. 12-1B-2-I (BIG MUDDY BRGS & GIRDER REP)
- 27 DETAILS: NEOPRENE EXPANSION JOINT, 4"

STANDARDS: 2113-1
2230-11
2298-4
2299-7
2300-1
2314-3
2316-5
2340-1
2341

PREPARED BY: *Harry R. O'By*
District Design Engineer

EXAMINED BY: *Ray Harrison*
District Construction Engineer

EXAMINED BY: *Carl L. Stewart*
District Maintenance Engineer

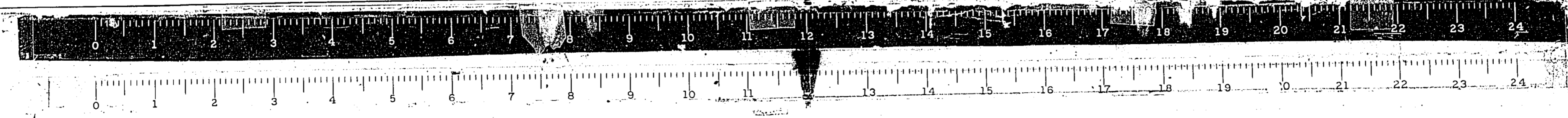
EXAMINED BY: *...*
District Traffic Engineer

EXAMINED BY: *...*
District Materials Engineer

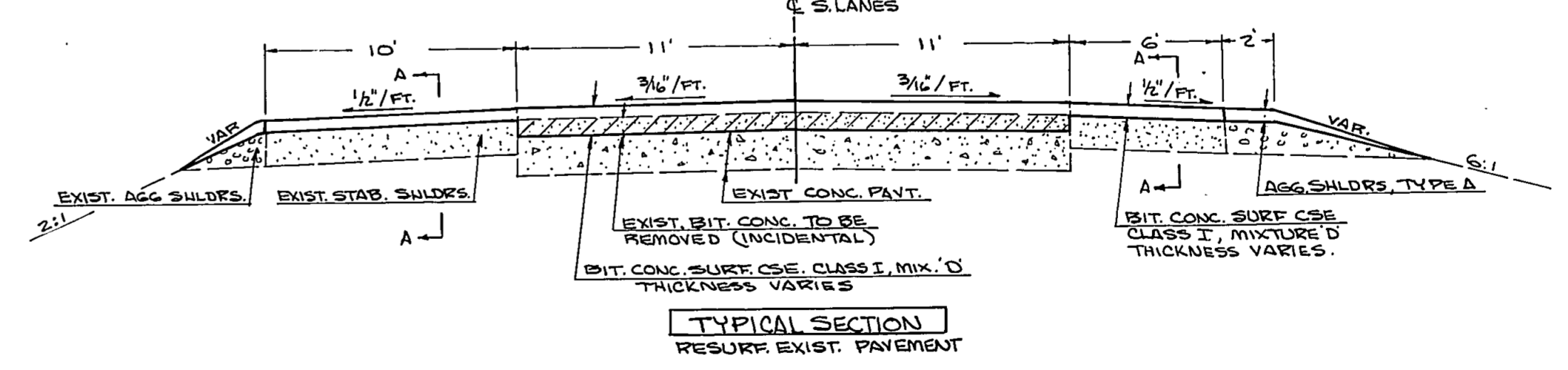
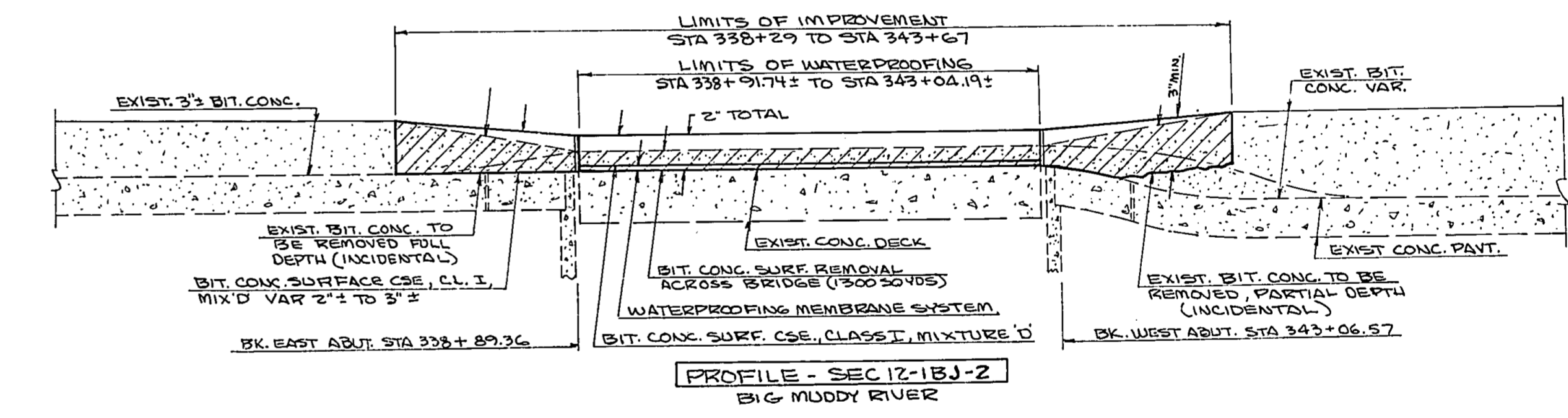
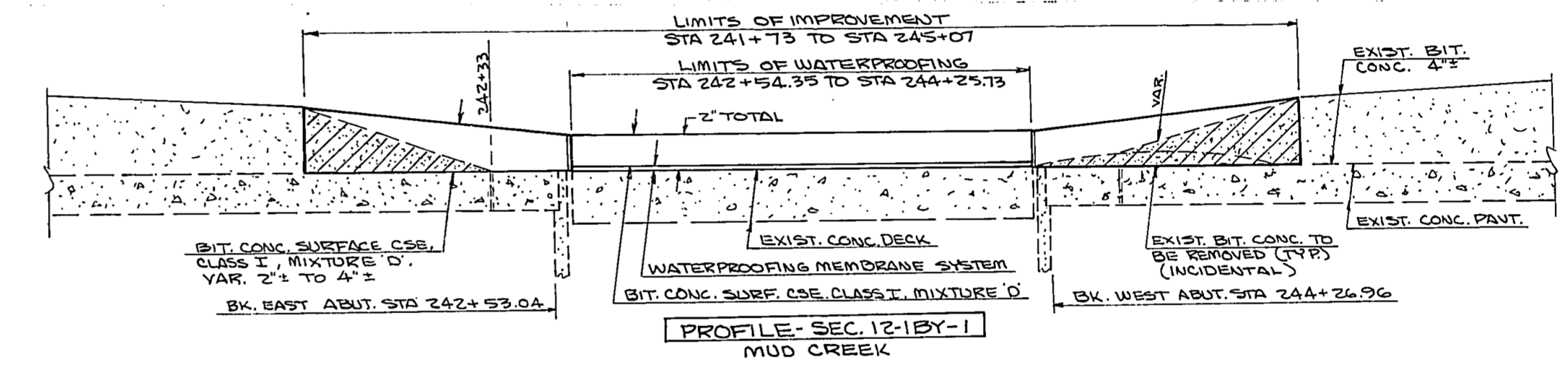
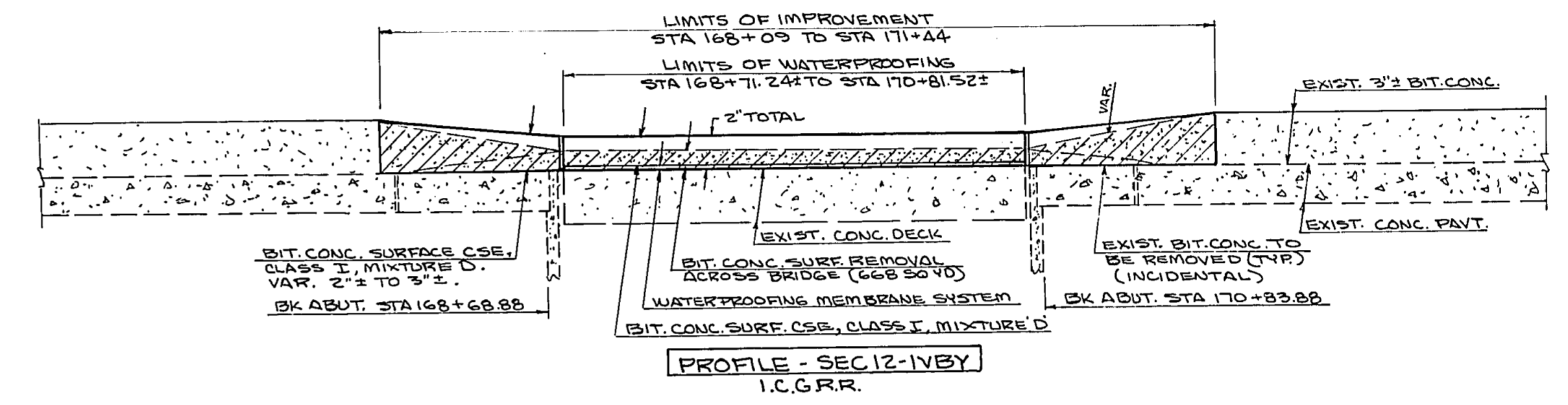
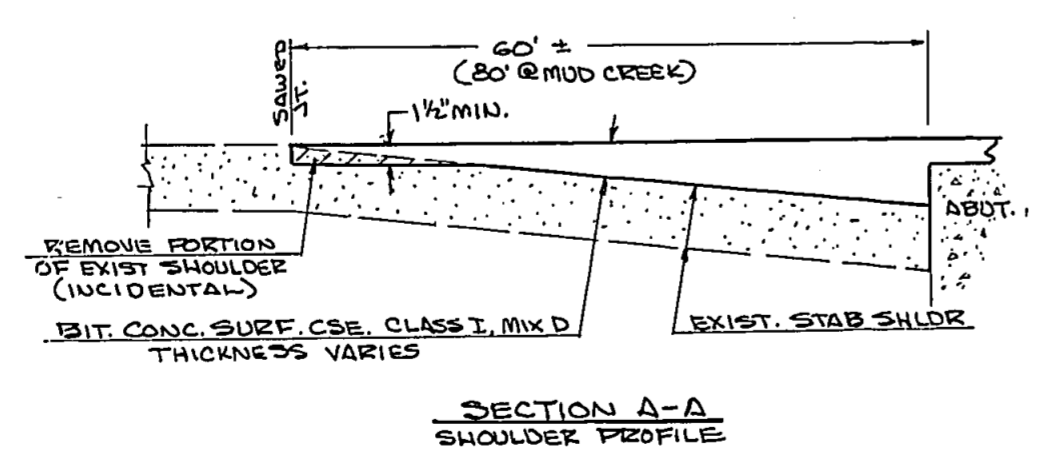
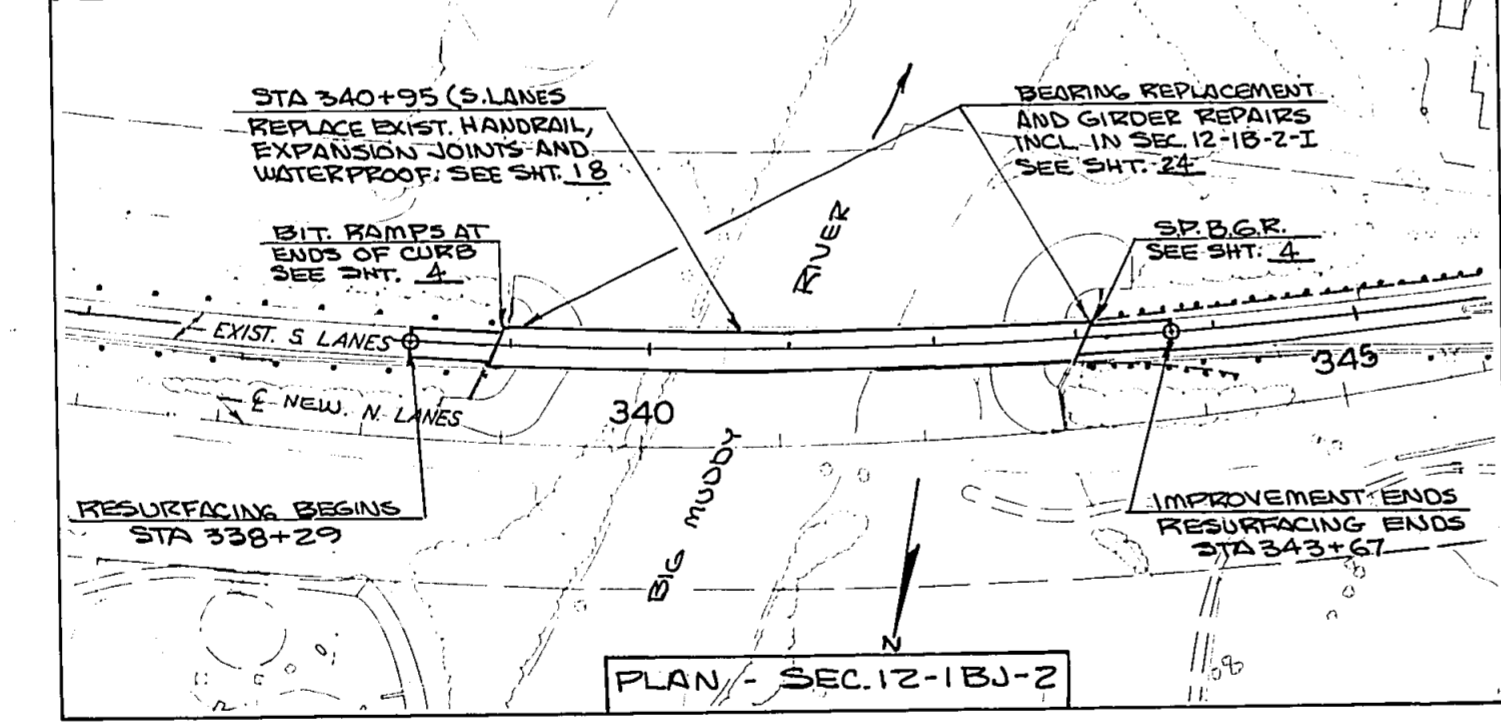
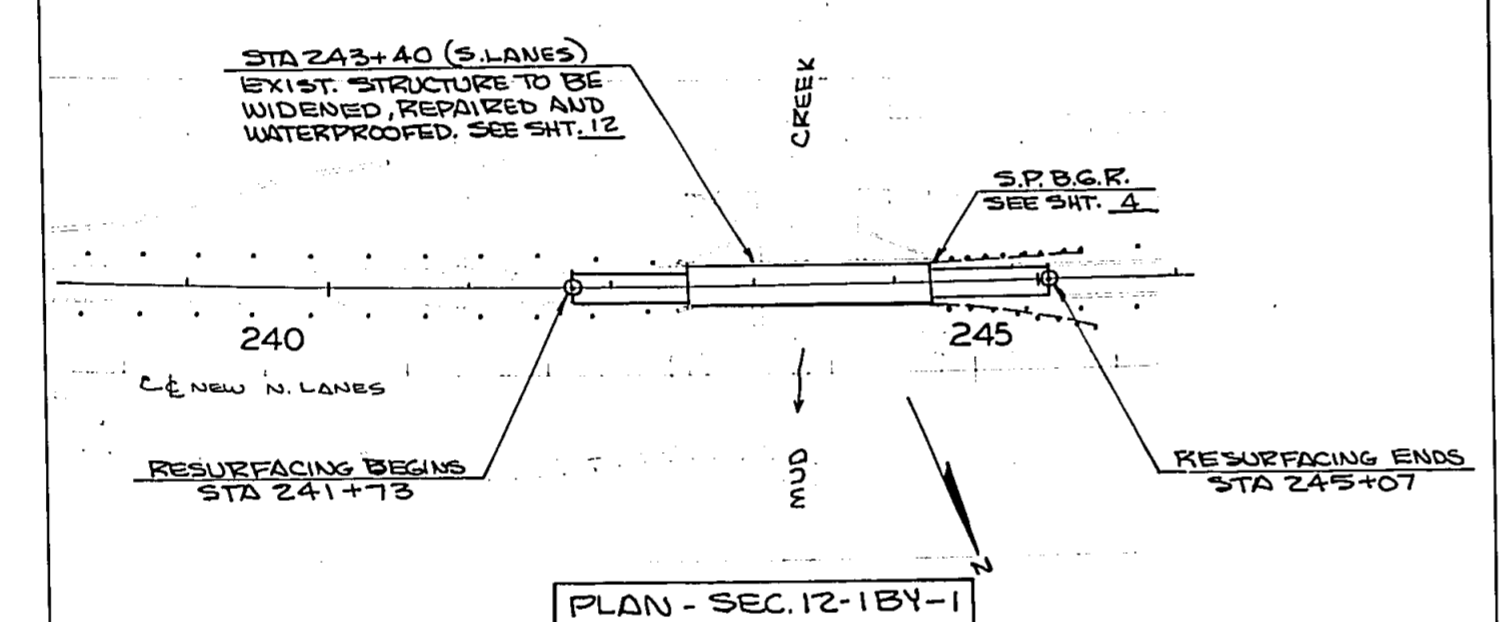
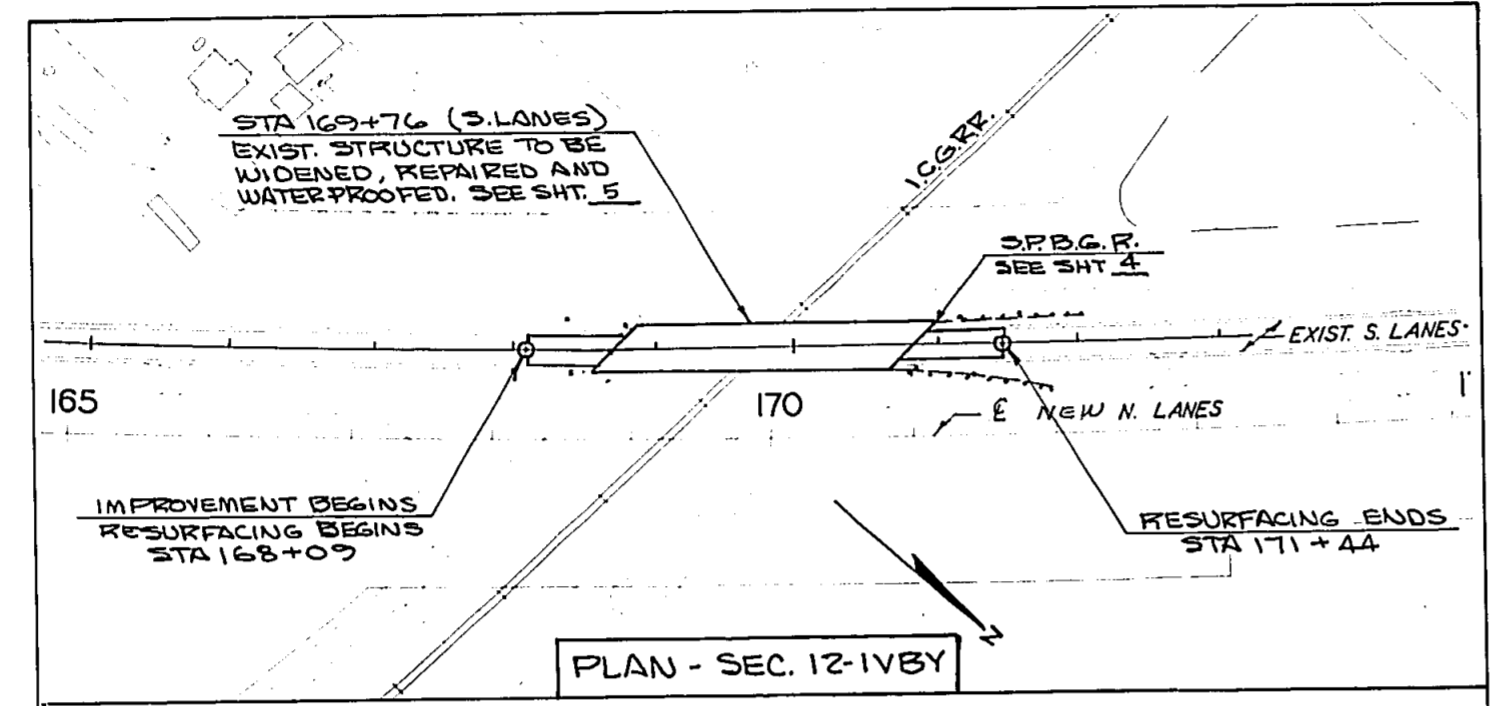
EXAMINED BY: *...*
District Land Acquisition Engineer

APPROVED: *July 31 1978*
Date
A. F. Newton
District Engineer

FOR INFORMATION ONLY

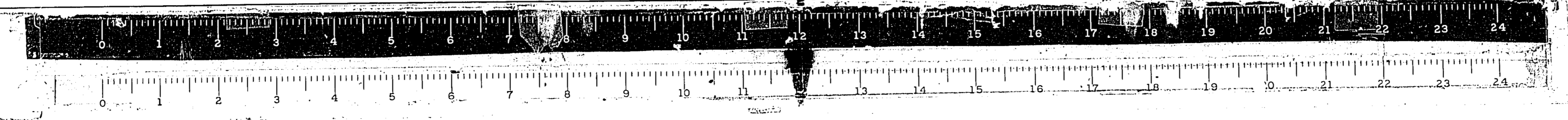


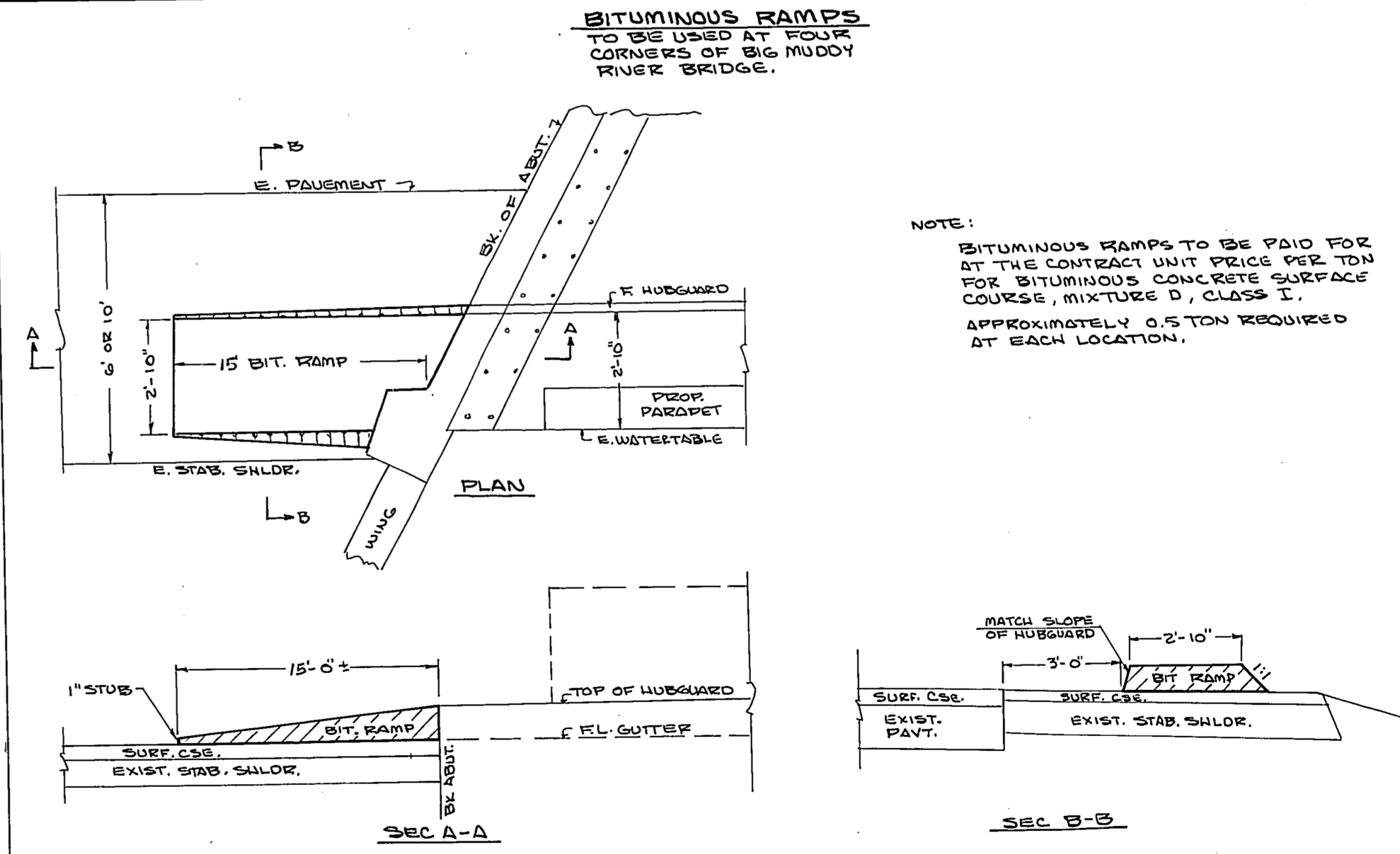
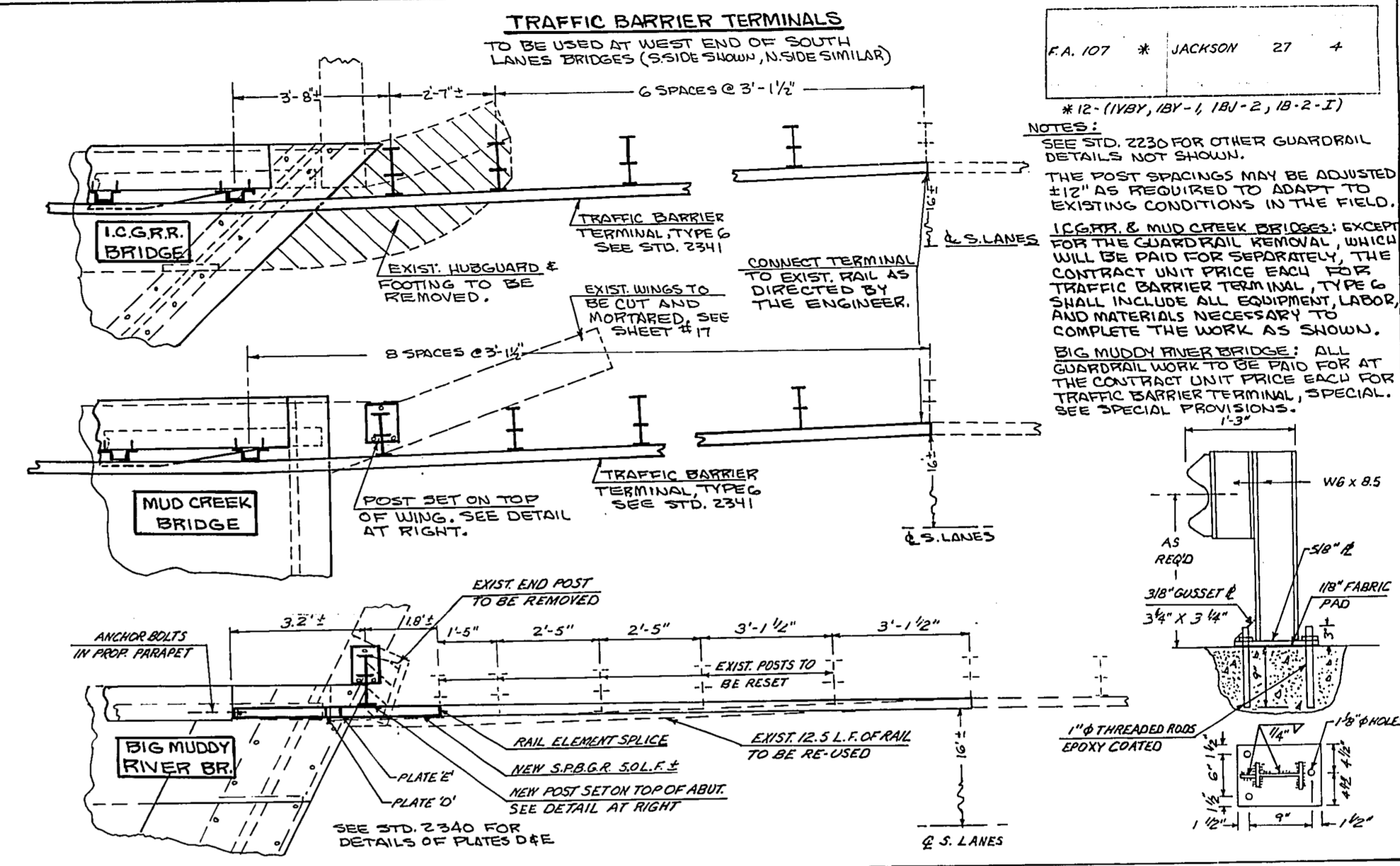
FA. 107 * JACKSON 27 3
 *12- (VBV, 1BY-1, 1BJ-2, 1B-2-I)



FA. ROUTE 107 SEC. 12- (VBV, 1BY-1, 1BJ-2, 1B-2-I) JACKSON COUNTY PLAN - PROFILE, TYPICAL SECTIONS

FOR INFORMATION ONLY



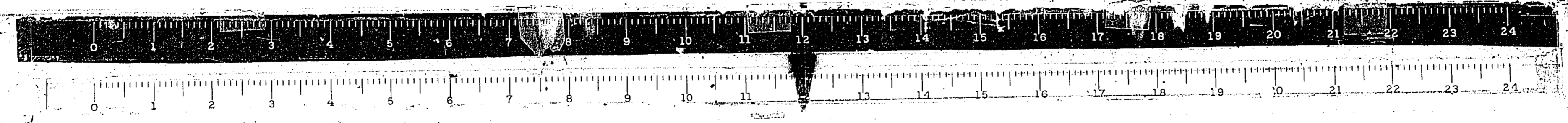


BIT. CONCRETE SURF. CSE, MIX. D, CLASS I

LOCATION	BRIDGE	APPROACH	TOTAL TONS
SEC 12-1VBY	61	59	120
SEC 12-1BY-1	49	94	143
SEC 12-1BJ-2	108	65	173
TOTALS	218	218	436

DECK SLAB REPAIR (PARTIAL DEPTH)

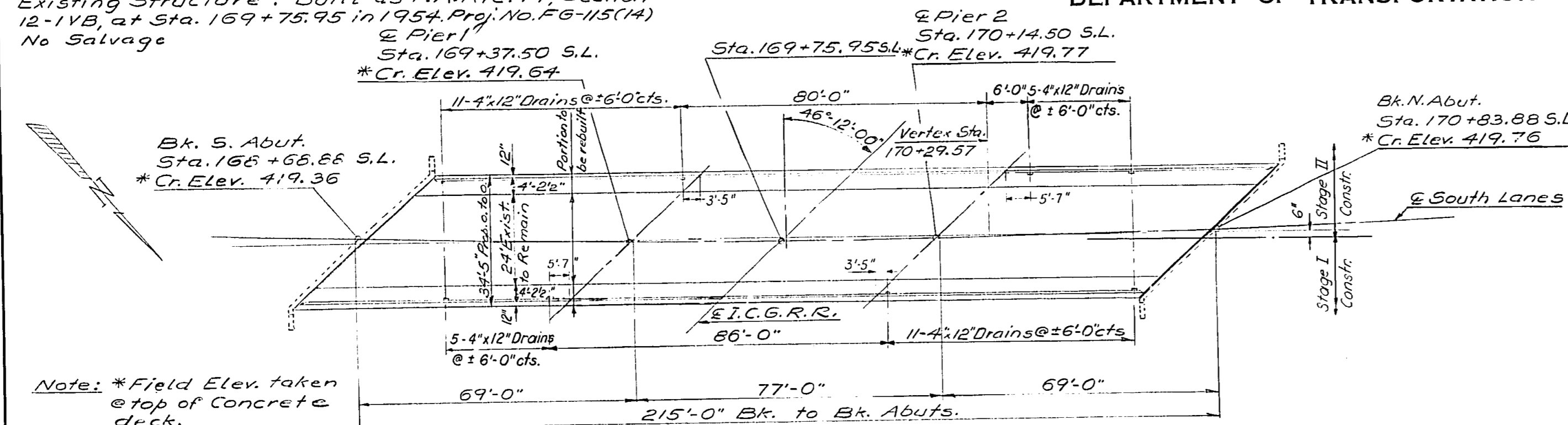
LOCATION	BRIDGE DECK	APPROACH SLAB	TOTAL SQ. YDS.
SEC 12-1VBY	5	12	17
SEC 12-1BY-1	5	2	7
SEC 12-1BJ-2	5	2	7
TOTALS	15	6	21



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 107	12-1VBY	JACKSON	47	5
SHEET NO. 1 7 SHEETS				

B.M.: USC # G5 Bronze Disc. Stamped A-149-1949
44' Rt. Sta. 168+12 N.L. Elevation 392.07.
Existing Structure: Built as F.A. Rte. 14, Section
12-1VB, at Sta. 169+75.95 in 1954, Proj. No. F-115(14)
No Salvage



DESIGN STRESSES
F_c = 3500 psi
F_y = 60,000 psi
(Reinf. - Field Units)

GENERAL NOTES

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of Materials.

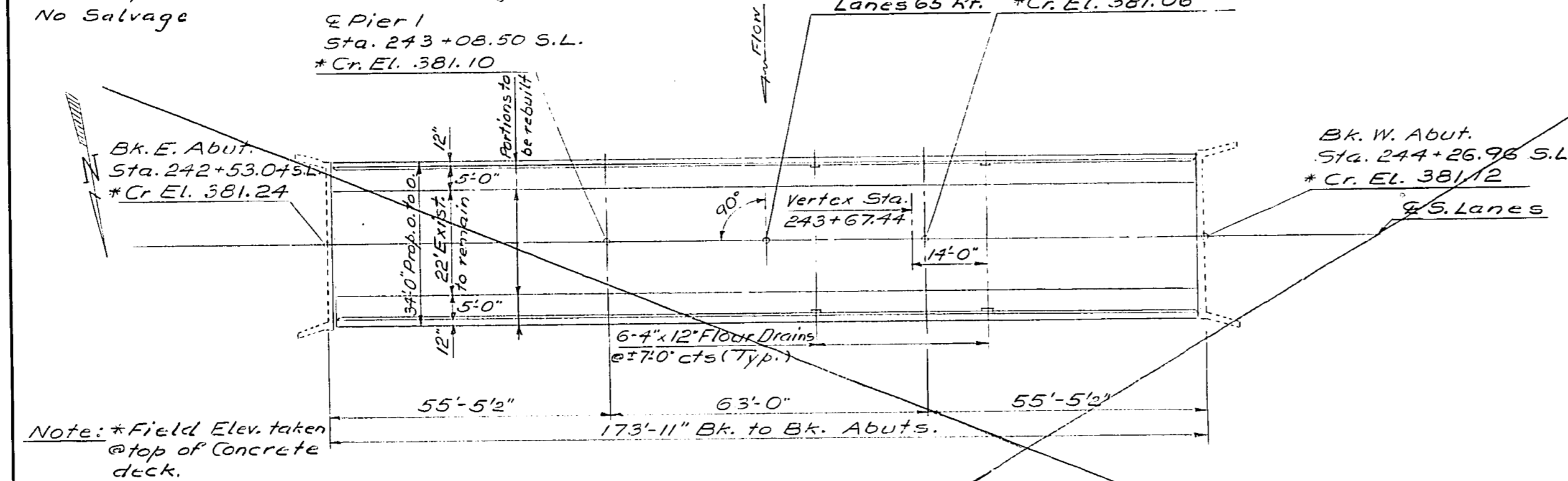
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

Reinforcement bars in the field units shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

Stage Construction shall be utilized so as to maintain one-way traffic at all times.

CURVE DATA
Δ = 59°-32'
L = 17,883.3'
T = 8,192.3'
D = 0°-24'
R = 14,323.97'
E = 2,177.3'
S.E. = 0.00 FH/FT
Retain Crown.

B.M.: "a" cut in S.W. corner of hubguard, 79 Ft. Lt.
Sta. 244+75 N.L. Elevation 381.73
Existing Structure: Built as F.A. Rte. 14, Section
12-1B-1, at Sta. 243+40 in 1954, Project No. F-115(16)
No Salvage

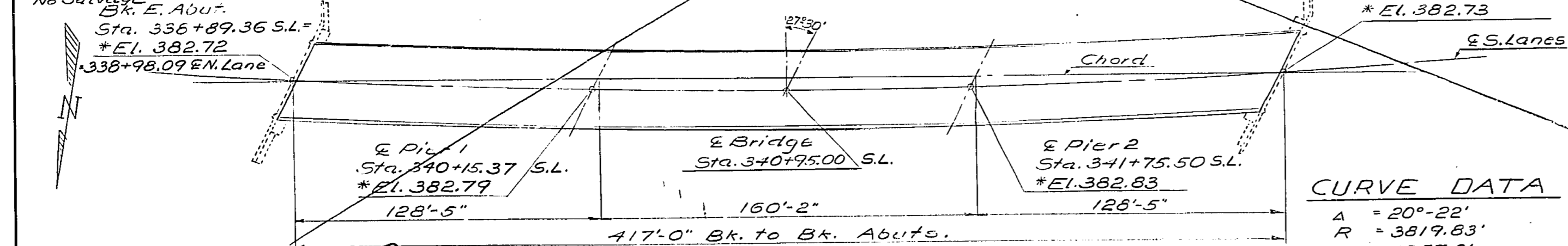


TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
* Bituminous Concrete Surface Course, Class I	Tons	61		61
Waterproofing Membrane System	Sq. Yds.	743		743
Protective Coat	Sq. Yds.	174		174
Class X Concrete	Cu. Yds.	109.8		109.8
Reinforcement Bars	Lbs.	19550	540	20090
Neoprene Expansion Joint (2")	Lin. Ft.	96		96
Concrete Removal	Cu. Yds.	83	8	91
Movable Double Concrete Barrier	Lin. Ft.	300		300
Bituminous Concrete Surface Removal	Sq. Yds.	668		668
Floor Drains	Each	32		32
Name Plates	Each	1		1

* Approach Slab Surfacing not included

B.M.: "a" Cut in S.E. Hubguard of Existing Bridge 864.
Sta. 339+03 N.L. Elevation 383.27.
Existing Structure: Built as F.A. Rte. 14, Section
12-1B-2, F-2, at Sta. 340+95 in 1954, Proj. No. U-115(17)
No Salvage



CURVE DATA
Δ = 20°-22'
R = 3819.83'
L = 1357.8'
D = 1°-30'
T = 686.2'
P.I. = 342+62.8
S.E. = 0.02%

STATION 169+76.00
REBUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 107 SEC. 12-1VBY
F.A. PROJ. FR-107(21)
LOADING H520
STR. No.

NAME PLATE
See Std. 2113
* Structure Number to be supplied by District.

PROJECT: F-107(21)
(F.A. ROUTE 107) OVER I.C.G.R.R.
(F.A. ROUTE 107) SECTION 12-1VBY
JACKSON COUNTY
STATION 169+76.00

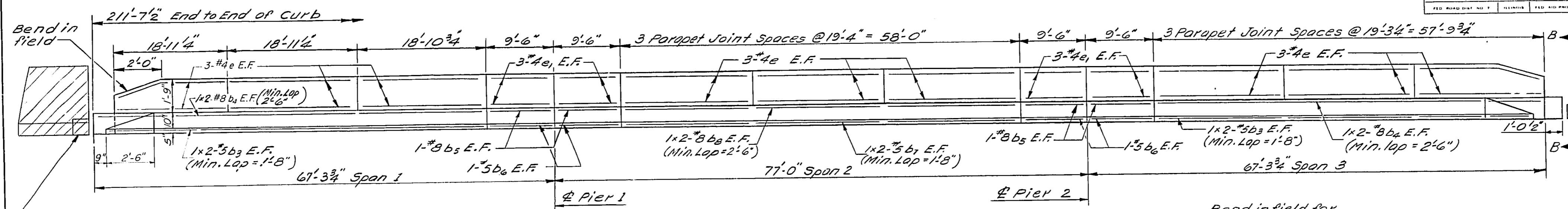
DESIGNED: W. Williams
CHECKED: Dan Wharton
DRAWN: V.H.
CHECKED: D.L.

EXAMINED: Carl E. Hummer
PASSED
APPROVED

FOR INFORMATION ONLY

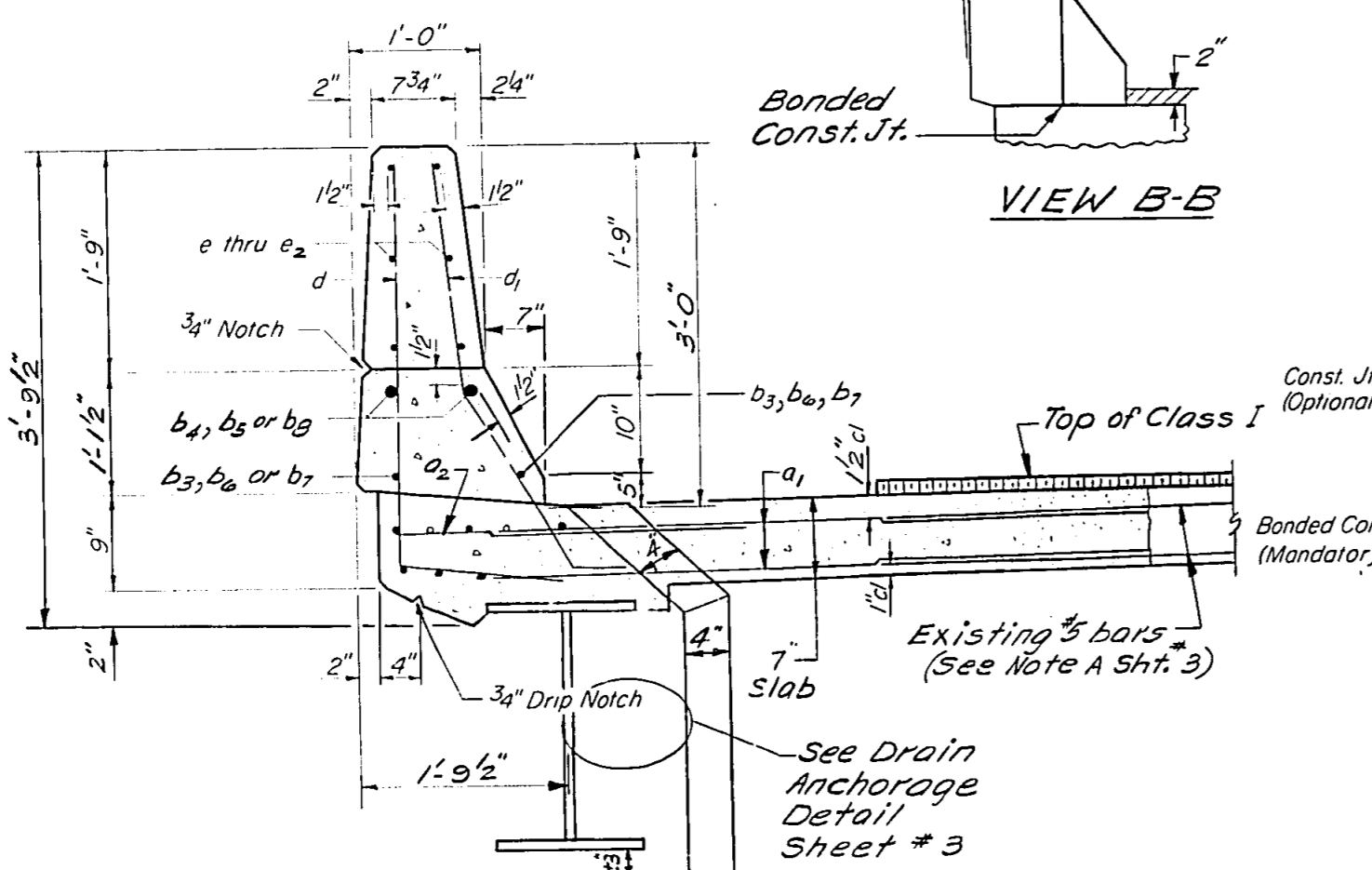
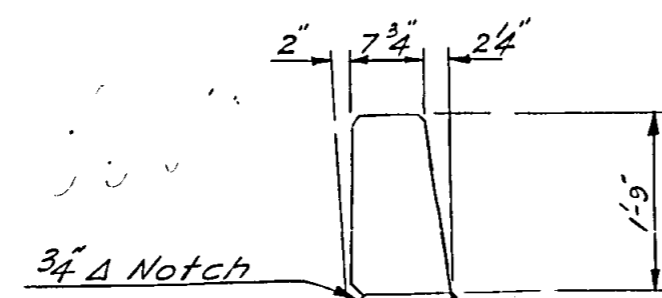
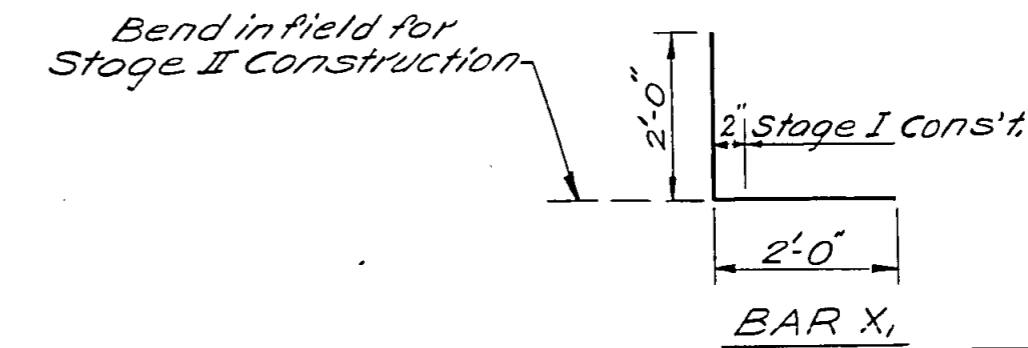
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
107	IVB4	JACKSON	27	8
FED. ROAD DIST. NO. 7			DESIGNED	DATE



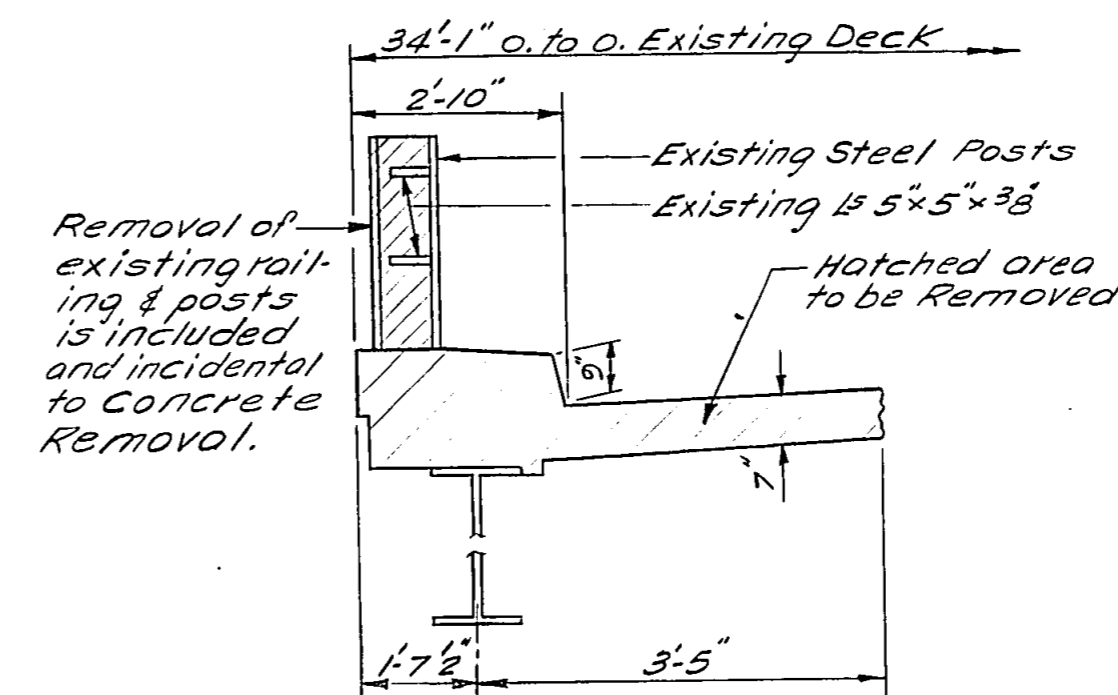
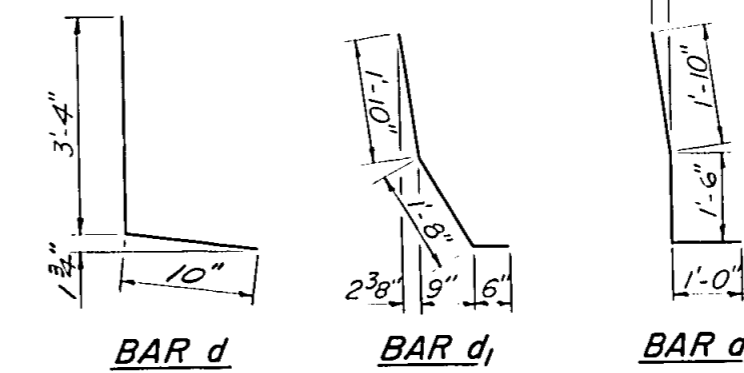
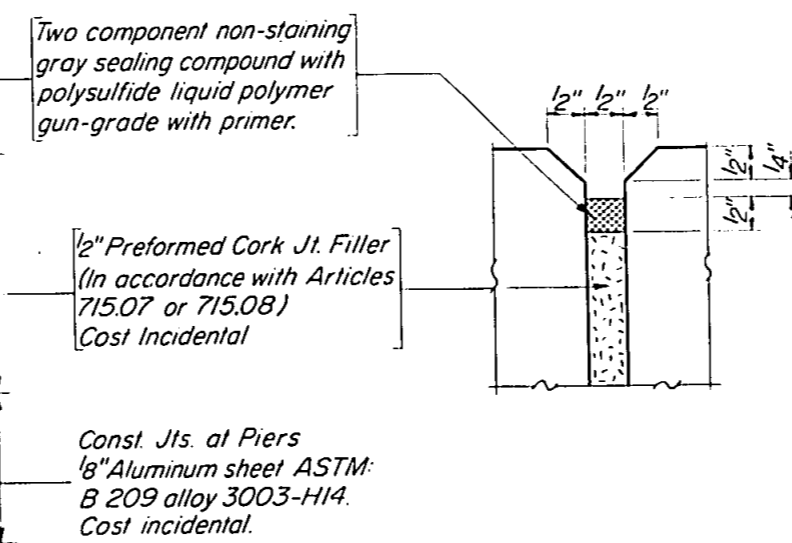
Existing Curb & End Post to be removed. See Sheet #6 for details.

INSIDE ELEVATION OF PARAPET
(Looking West)



SECTION THRU PARAPET

PARAPET JOINT DETAILS



SECTION THRU EXISTING DECK
(Showing Removal)

SUPERSTRUCTURE
BILL OF MATERIAL

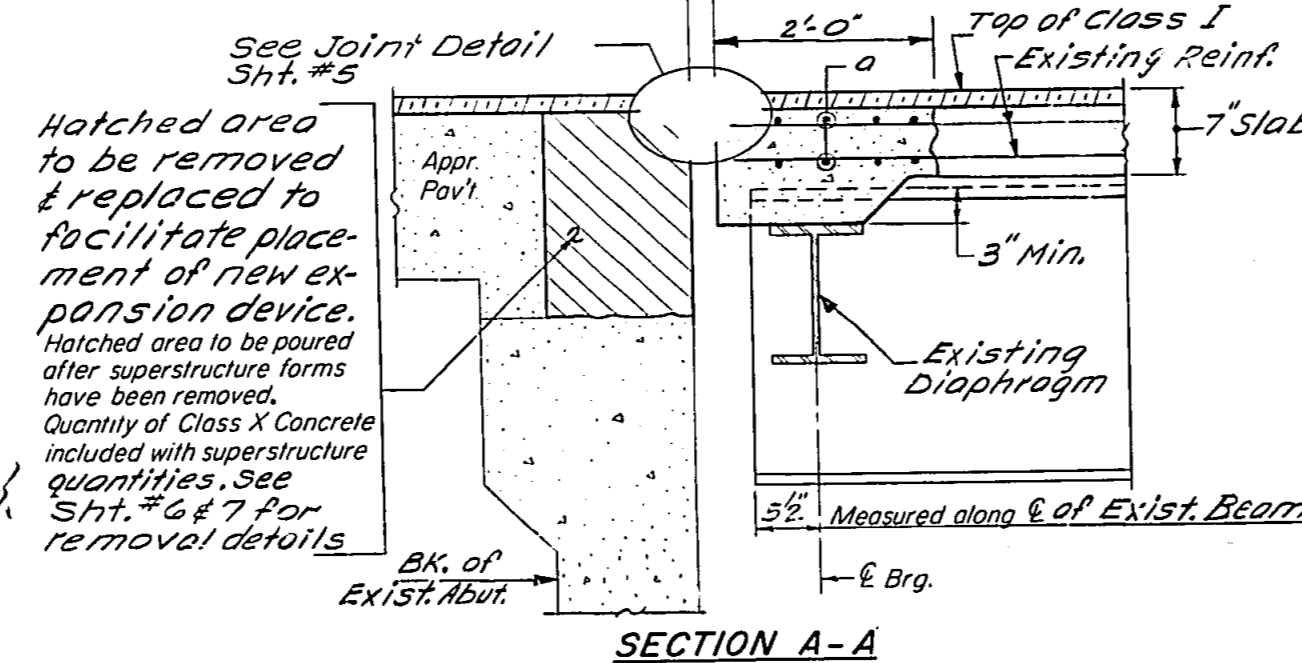
Bar	No.	Size	Length	Shape
a	16	#5	22'-9"	
a1	636	#5	4'-3"	
a2	312	#6	4'-0"	
a3	16	#5	24'-3"	
b	98	#5	31'-5"	
b1	32	#6	20'-9"	
b2	96	#4	27'-9"	
b3	16	#5	29'-7"	
b4	16	#8	30'-2"	
b5	16	#8	9'-3"	
b6	16	#5	27'-9"	
b7	8	#5	28'-8"	
b8	8	#8	30'-2"	
d	422	#4	4'-2"	L
d1	444	#5	4'-0"	L
d2	16	#5	4'-4"	L
e	72	#4	19'-0"	
e1	48	#4	9'-3"	
e2	36	#4	18'-7"	
X1	16	#5	4'-0"	L
Reinforcement Bars				Lbs. 19550
Class X Concrete			Cu. Yds. 103.8	
Concrete Removal			Cu. Yds. 83	

* X1 bars shall conform to the requirements of AASHTO M-31 or M-53 except the minimum yield strength shall not be less than 33000 psi nor more than 45000 psi.

SUPERSTRUCTURE DETAILS
F.A. RT. 107 SEC. 12-IV BY
JACKSON COUNTY
STA. 169+76.00

DESIGNED *William Thompson*
CHECKED *Dan Chilton*
DRAWN *EL*
CHECKED *Qdl*

EXAMINED *Paul E. Thompson* 12/17/77
PASSED
APPROVED



SECTION A-A

S-I-D 9-27-76

Rev 2-1-79

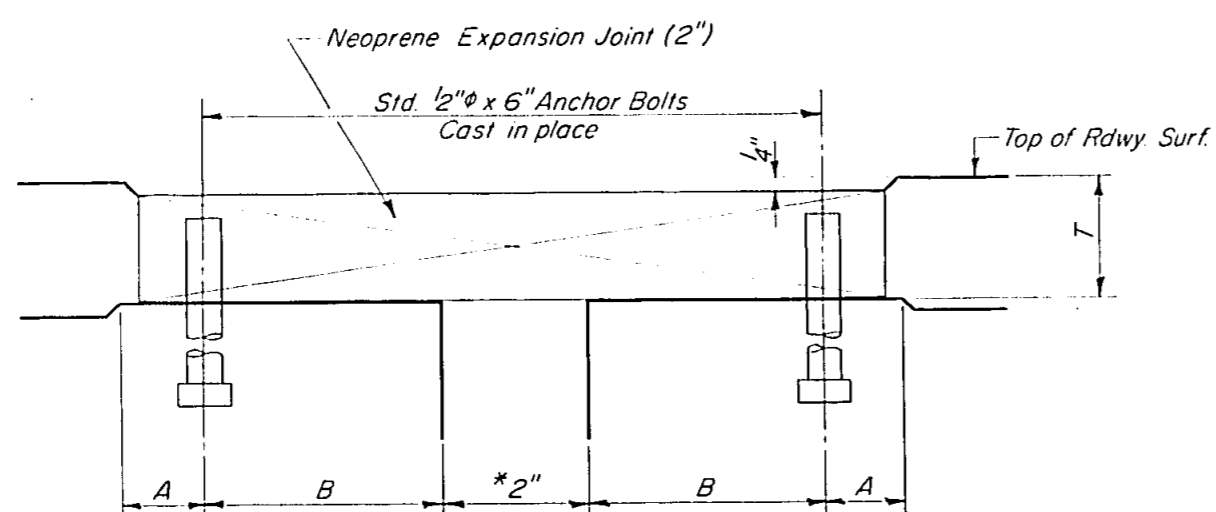
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGN DIVISION
1977
SECTION 27
SHEET NO 5
7 SHEETS

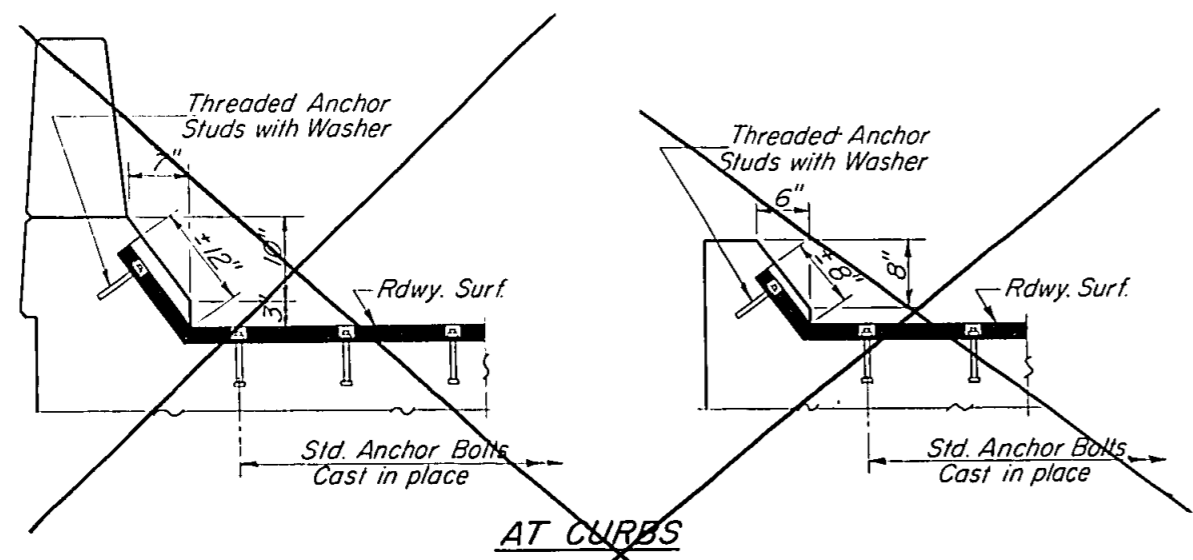
ALTERNATE NEOPRENE EXPANSION JOINTS (2")
(See Special Provisions)

Model	Supplier	Blockout Dimensions
TRANSFLEX, MODEL 200A	General Tire Company	T = 1 1/8", A = 1 1/4", B = 3 5/8"
WABOFLEX, MODEL SR 2	Watson Bowman Associates, Inc	T = 1 3/8", A = 1 1/4", B = 3 3/8"
FEL-SPAN, MODEL T-30 Set joint seal 1 5/8" at 50°F	Fel-Pro Building Products Inc	T = 1 3/4", A = 2 1/4", B = 2 13/16"
WABO ELASTODAM, TYPE 300 Set joint seal 1 5/8" at 50°F	Watson Bowman Associates, Inc	T = 1 3/4", A = 2 1/4", B = 2 13/16"
WABO ALL-STRIP, TYPE III S300 Set joint seal 1 1/2" at 50°F Permitted for C skew only.	Watson Bowman Associates, Inc	T = 1 3/4", A = 1 5/8", B = 2 3/4"
LOW PROFILE ONFLEX-25 Set joint seal 1 1/2" at 50°F Roadway ball channel shall be filled with approved grout. Permitted for up to 50° skew	Structural Accessories, Inc	T = 1 3/4", A = 1 5/8", B = 2 3/8"

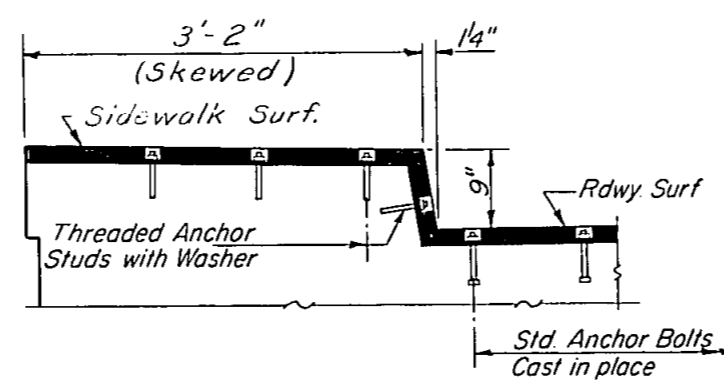


CROSS SECTION
At 50°F
Dimensions are at right angles.

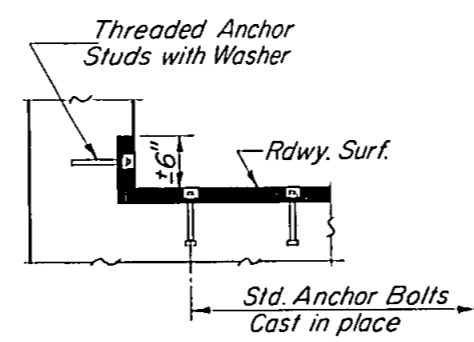
NOTE:
Joint openings shall be adjusted in accordance with Article 503.07 (c) of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.



AT CURBS



AT SIDEWALK
Sec. 12-1B J-2



AT ABUTMENT

TYPICAL END TREATMENTS

DESIGNED *William Flanagan*
CHECKED *Dan Chilton*
DRAWN J.P.
CHECKED *R.S.B.*

EXAMINED *Carl E. Johnson* 1977
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

EJ-1 2-10-77

NEOPRENE EXPANSION JOINTS (2")
FOR EXPANSION LENGTH OF DECK = 0 to 160 ft.

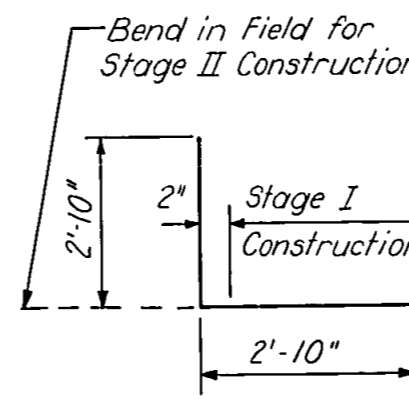
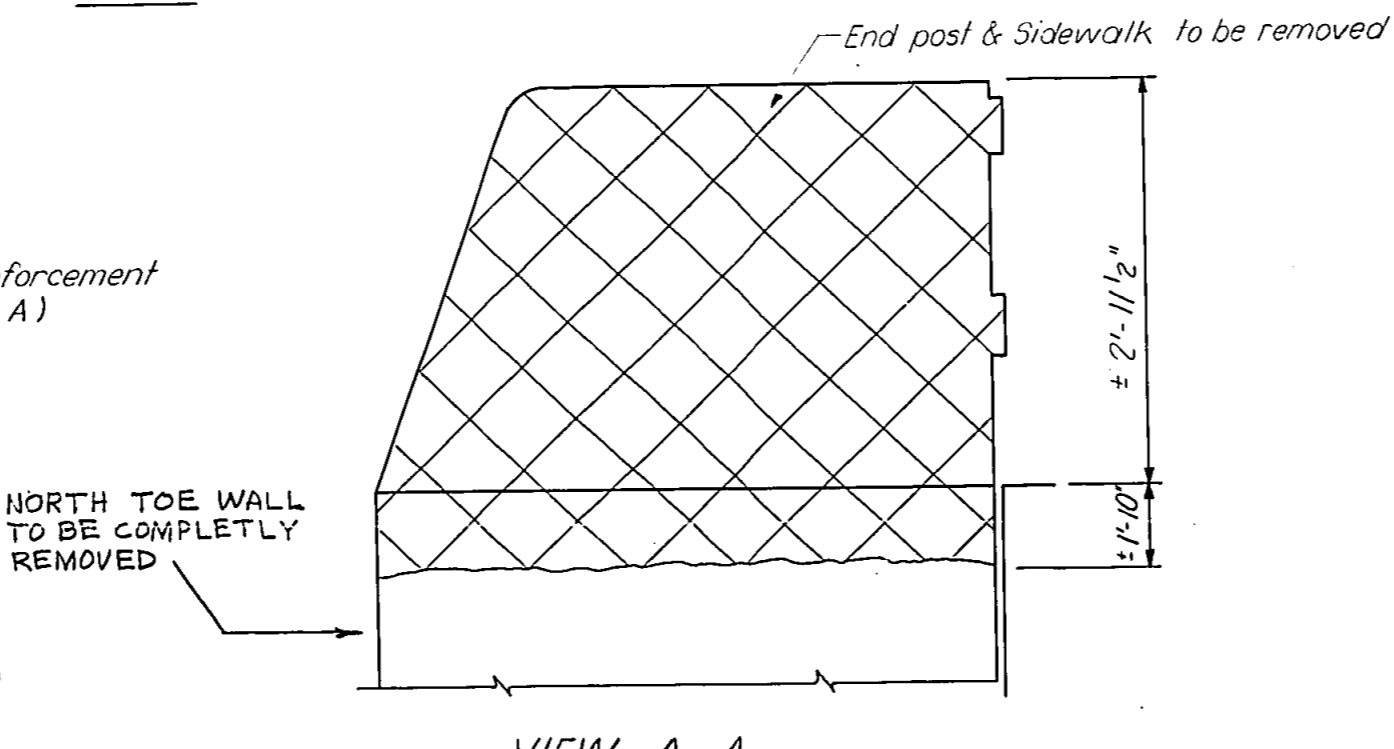
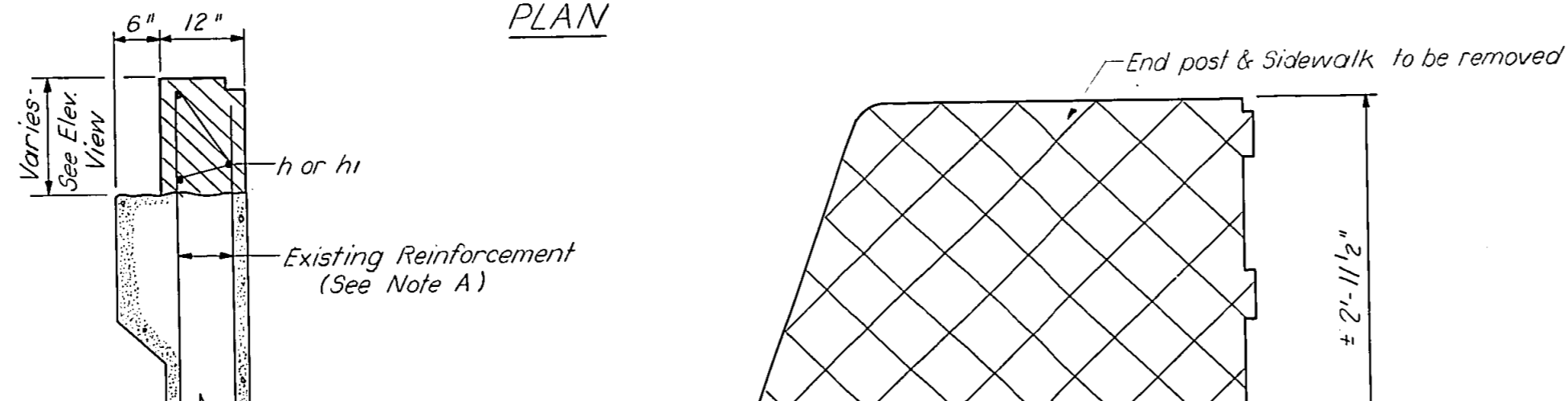
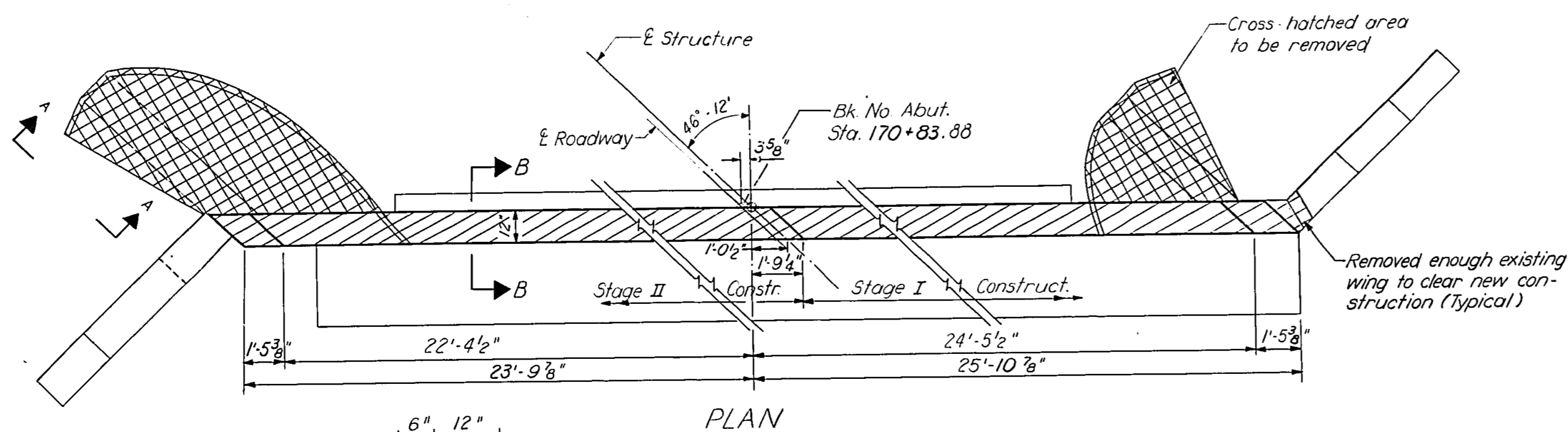
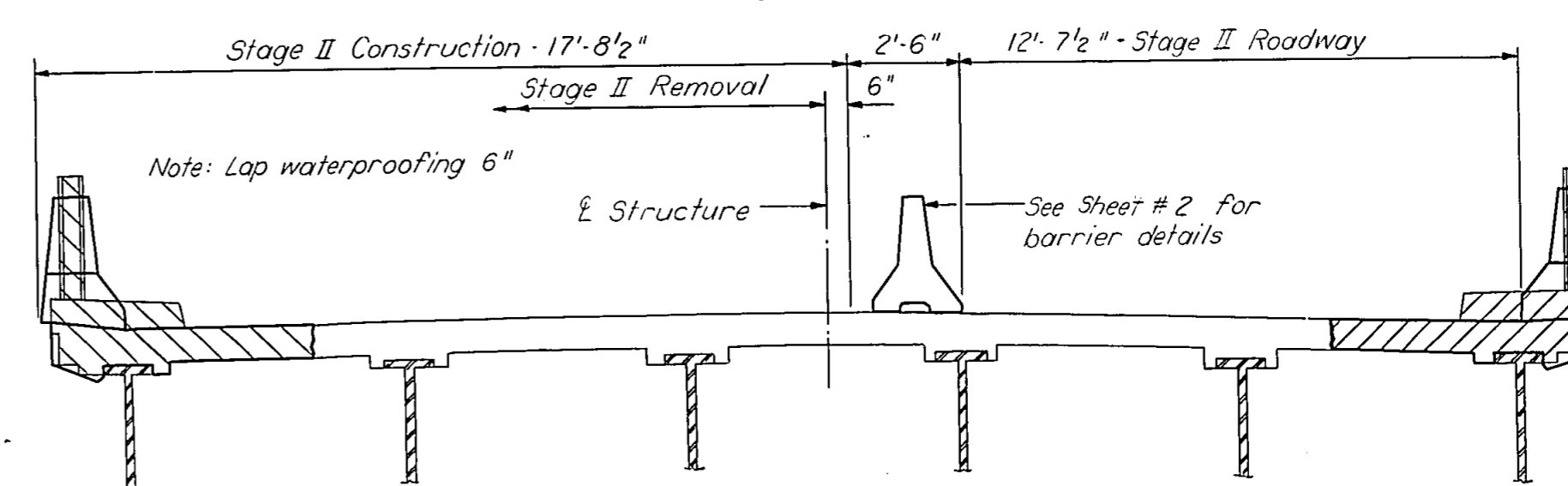
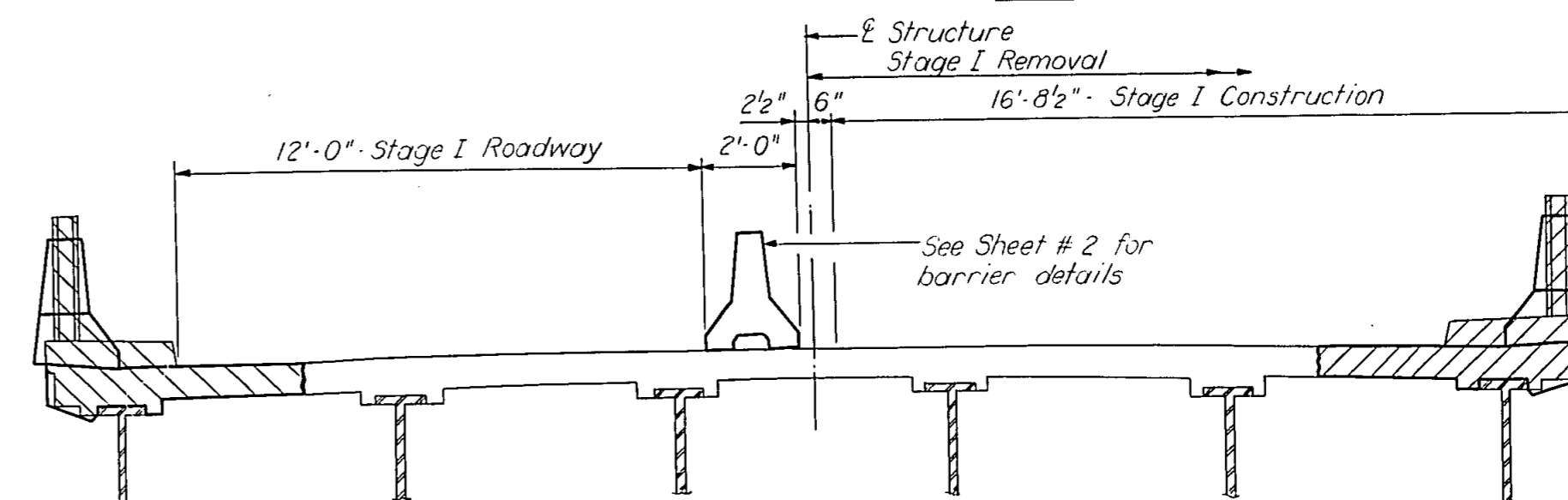
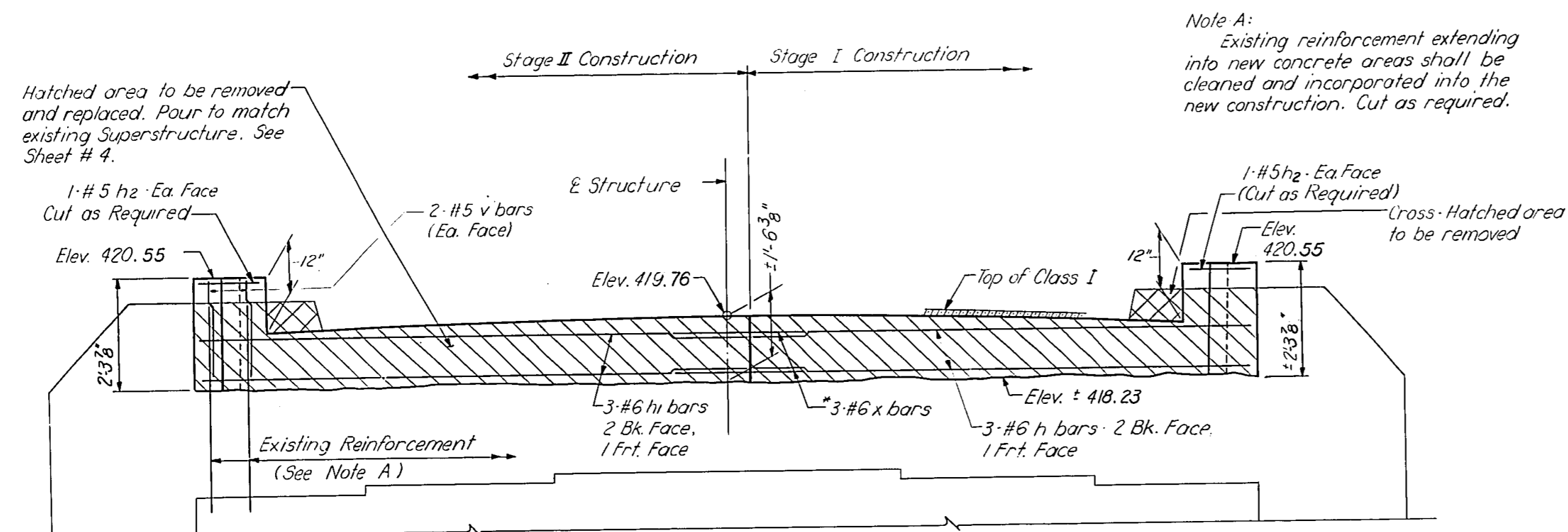
PROJECT:
E.A. ROUTE 107 SECTION 12-1VB Y
JACKSON COUNTY
STATION 169 + 76.00

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R.A. 107	12-IV	JACKSON	10	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
7 SHEETS



* X bars shall conform to the requirements of AASHTO M-31 or M-53 except the minimum yield strength shall not be less than 33,000 p.s.i. nor more than 45,000 p.s.i.

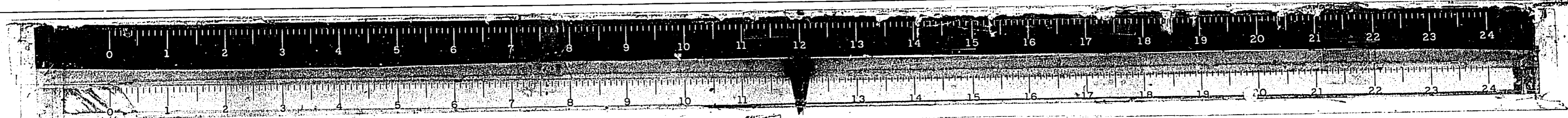
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	3	#6	23'-9"	
h1	3	#6	25'-3"	
h2	4	#5	1'-2"	
v	8	#5	2'-0"	
*x	3	#6	5'-8"	
Reinforcement Bars		Lbs	270	
Concrete Removal		Cu. Yds.	4	

NORTH ABUTMENT AND
STAGE CONSTRUCTION DETAILS
F.A. ROUTE 107 SECTION 12-IV BY
JACKSON COUNTY
STATION 169+76.00

DESIGNED *William H. ...*
CHECKED *Dan ...*
DRAWN *PP*
CHECKED *D.S.B.*

EXAMINED *Dec 14 1977*
Carl E. ...
PASSED
APPROVED

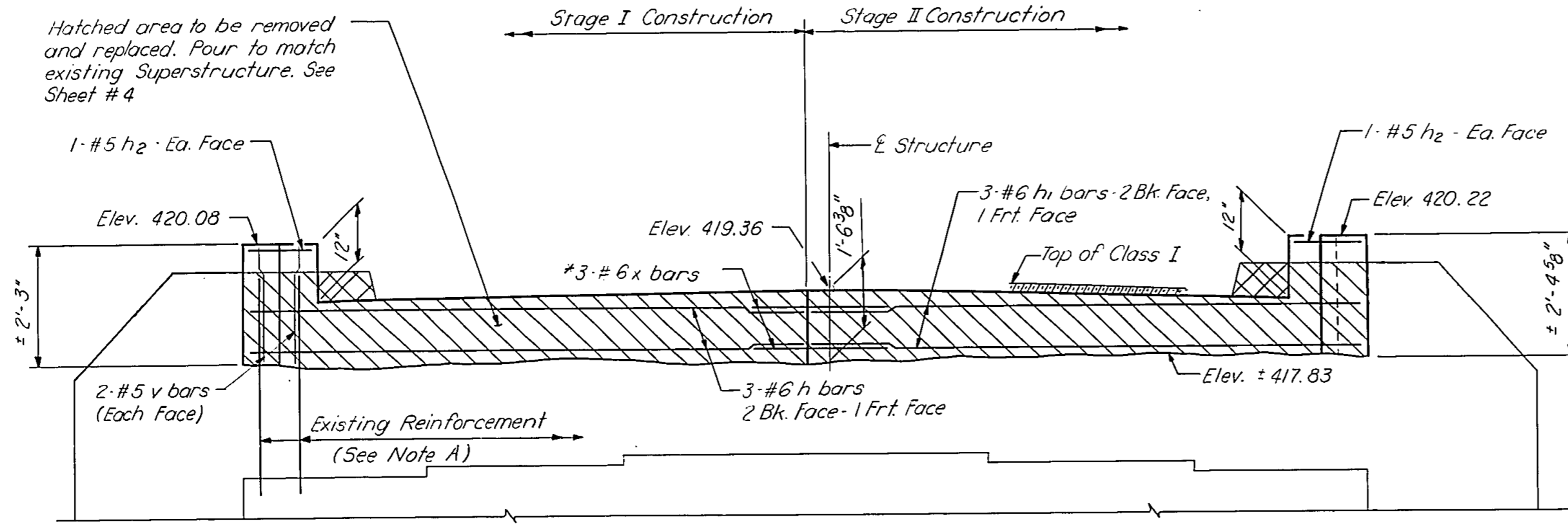


FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

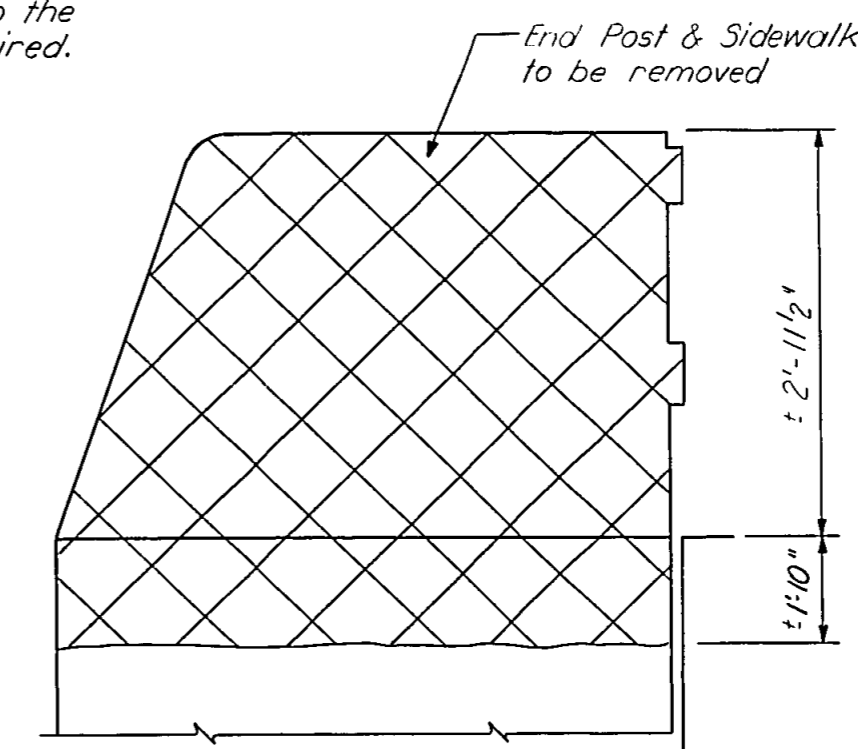
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 107	12-IV	JACKSON	27	11
ILLINOIS		FED. AID PROJECT		

SHEET NO. 7
7 SHEETS

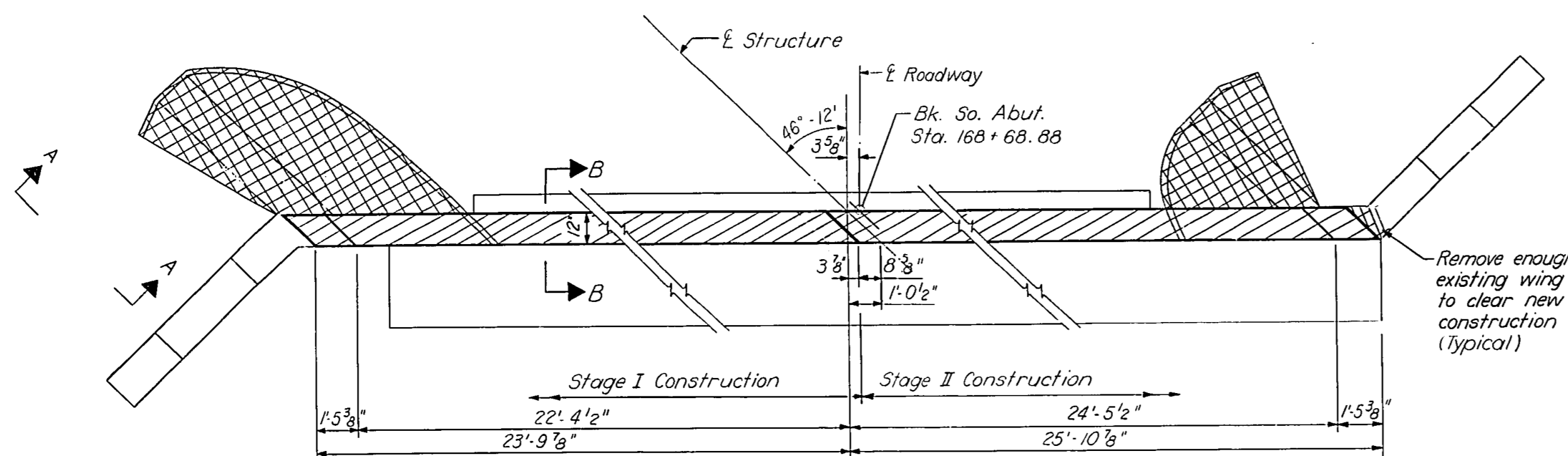


ELEVATION

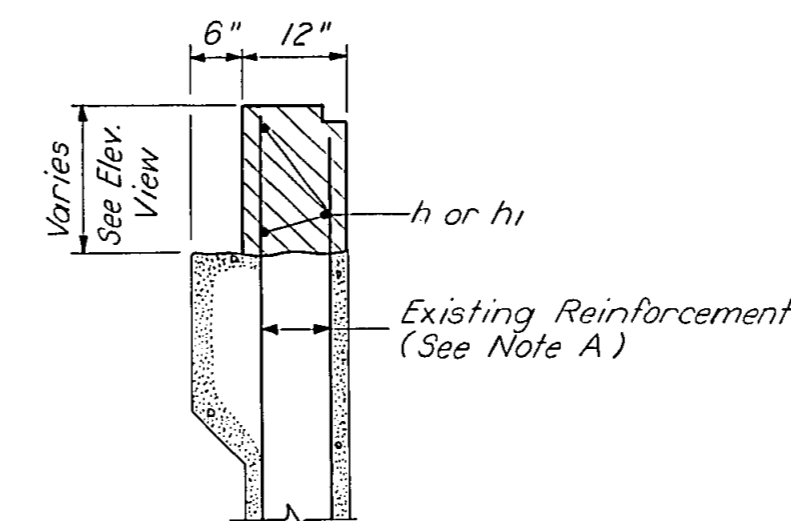
Note A:
Existing reinforcement extending into new concrete areas shall be cleaned and incorporated into the new construction. Cut as required.



VIEW A-A



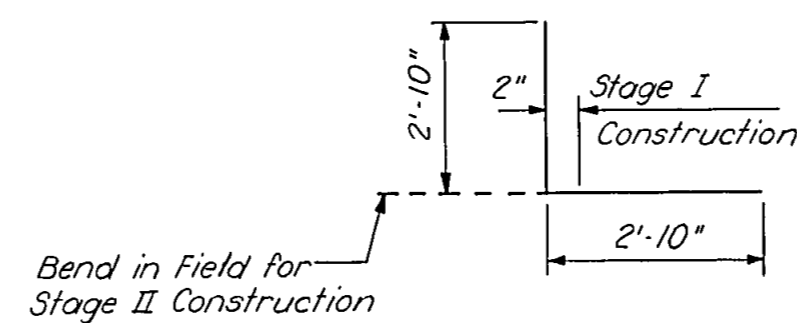
PLAN



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	3	#6	23'-9"	—
h ₁	3	#6	25'-3"	—
h ₂	4	#5	1'-2"	—
v	8	#5	2'-0"	—
*x	3	#6	5'-8"	┘
Reinforcement Bars			Lbs.	270
Concrete Removal			Cu Yds.	4



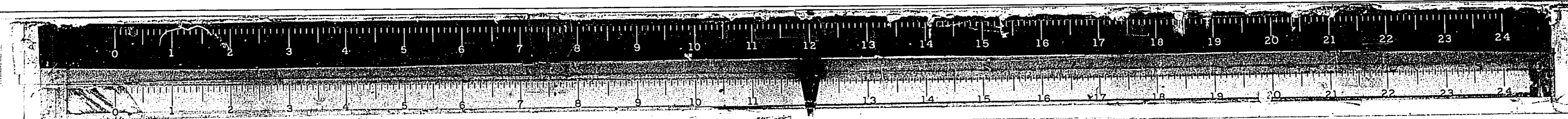
* BAR X

* X bars shall conform to the requirements of AASHTO M-31 or M-53 except the minimum yield strength shall not be less than 33,000 p.s.i. nor more than 45,000 p.s.i.

SOUTH ABUTMENT
F.A. ROUTE 107 SECTION 12-IV BY
JACKSON COUNTY
STATION 169+76.00

DESIGNED	W. H. ...
CHECKED	H. L. ...
DRAWN	P. P.
CHECKED	D. S. C.

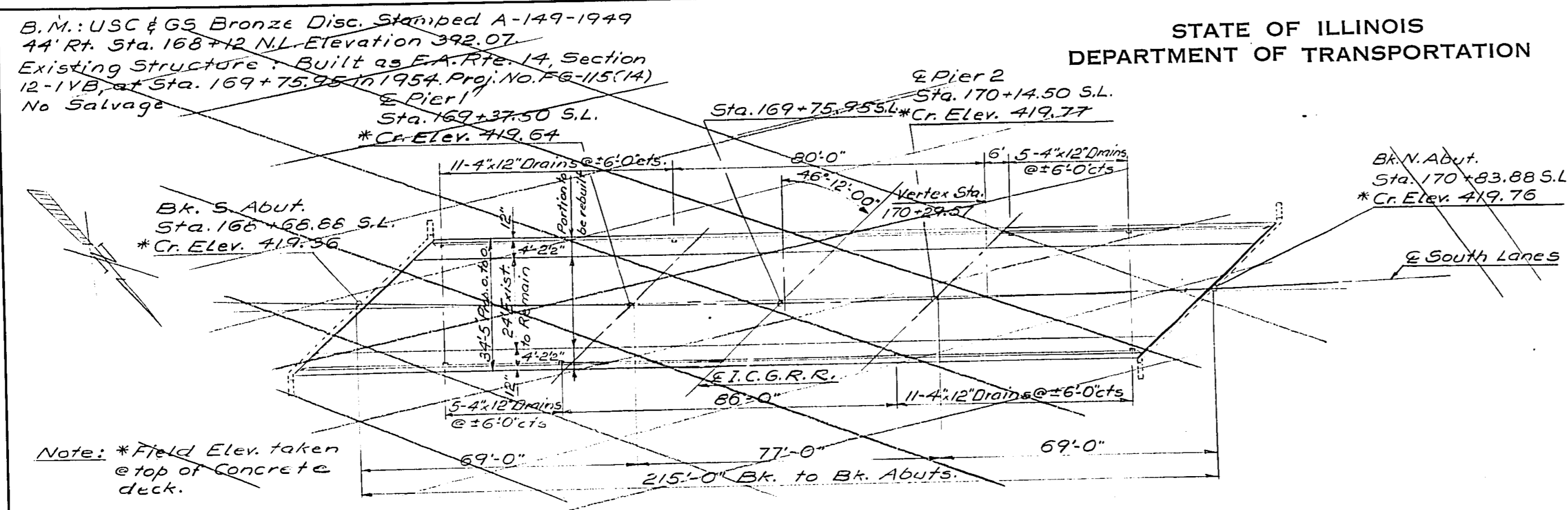
EXAMINED	C. E. ...	1977
PASSED		
APPROVED		



FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 107	12-1	JACKSON	27	12
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



GENERAL NOTES

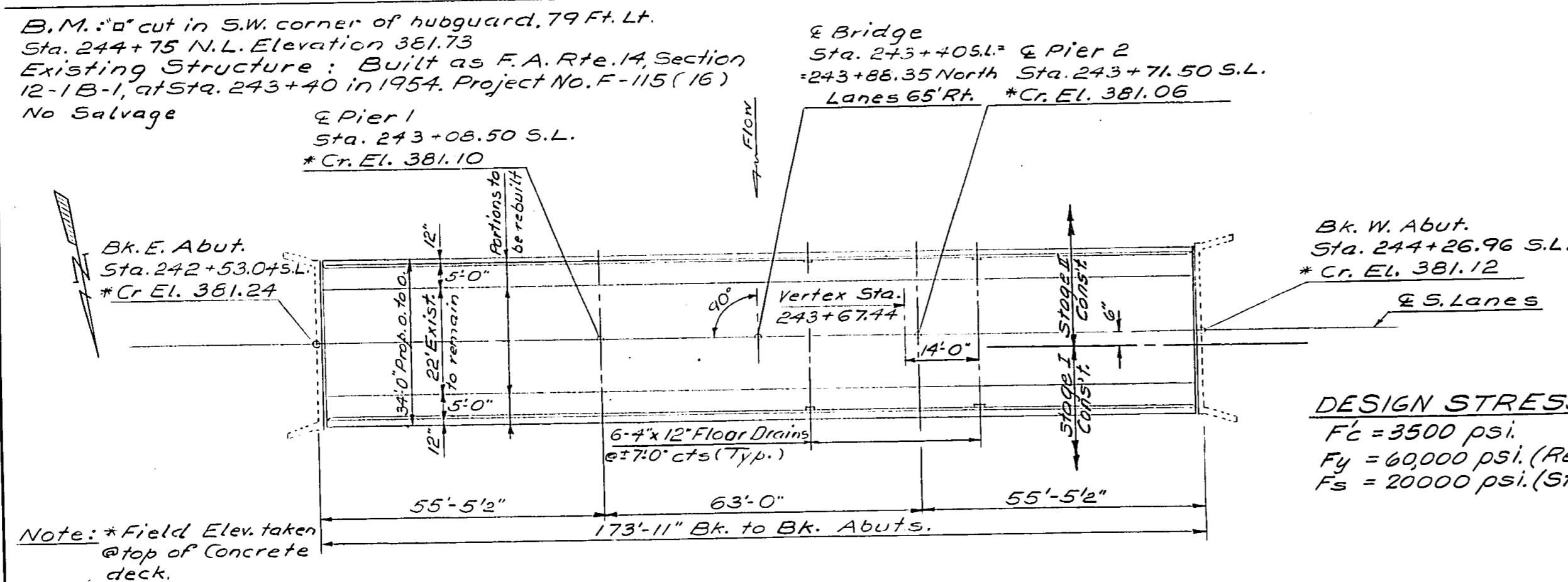
All new Struct. steel shall be shop painted with two coats of basic lead silico chromate paint. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

Reinforcement bars in the field units shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

Stage construction shall be utilized so as to maintain one-way traffic at all times.



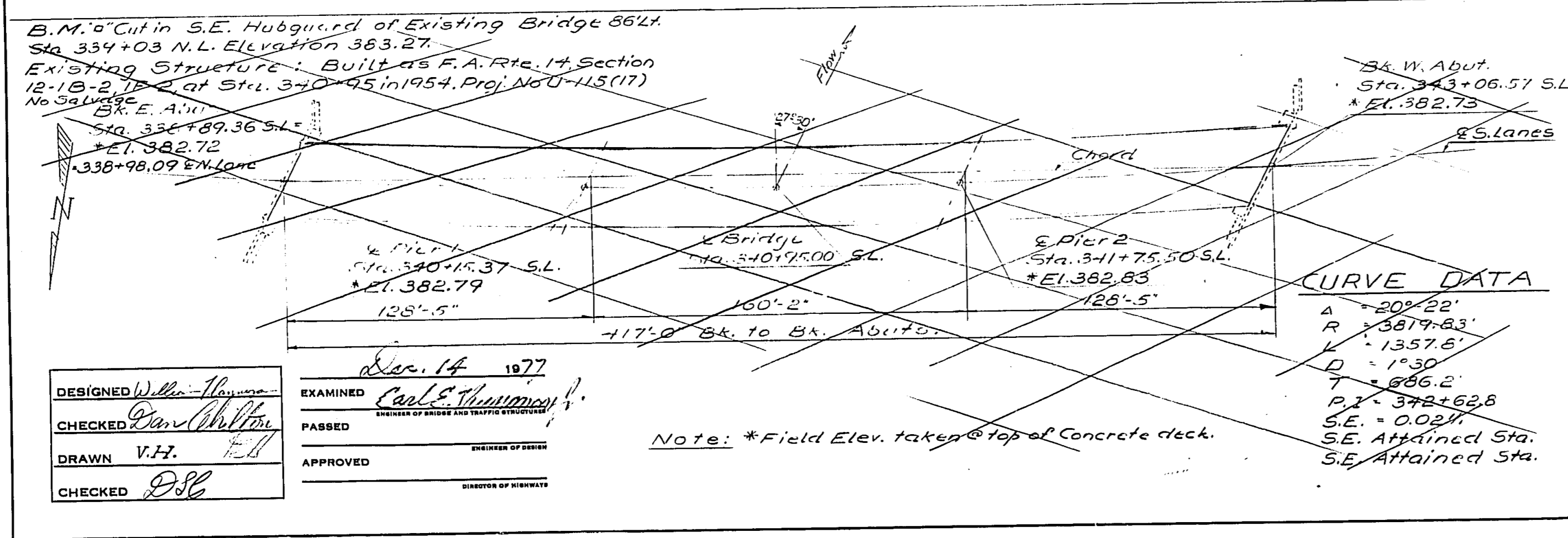
DESIGN STRESSES

$F_c = 3500$ psi.
 $F_y = 60,000$ psi. (Rein.-Field units)
 $F_s = 20,000$ psi. (Struct. Steel)

TOTAL BILL OF MATERIAL

ITEM	Unit	Super	Sub.	Total
Bituminous concrete surface	Tons	49		49
Course, Class I	Sq. Yds.	594		594
Waterproofing Membrane System	Sq. Yds.	141		141
Protective Coat	Sq. Yds.	91.9		91.9
Class X concrete	Cu. Yds.		360	16810
Reinforcement Bars	Lbs.			3030
Preformed Joint Sealer (2'2")	Lin. Ft.			34
Preformed Joint Sealer (4")	Lin. Ft.			34
Concrete Removal	Cu. Yds.			79
Structural Steel	Lbs.			260
Movable Double concrete Barrier	Each			12
Floor Drains	Each			1
Name Plates	Each			1

** Approach slab surfacing not included.



CURVE DATA

$\Delta = 20^\circ 22'$
 $R = 3879.83'$
 $L = 1357.8'$
 $D = 1' 30"$
 $T = 866.2'$
 $P.T. = 378+62.8$
 $S.E. = 0.02\%$
 $S.E. Attained Sta. =$
 $S.E. Attained Sta. =$

DESIGNED *Walter H. ...*
CHECKED *Carl S. ...*
DRAWN *V.H.*
CHECKED *D.S.*

EXAMINED *Carl S. ...*
PASSED
APPROVED

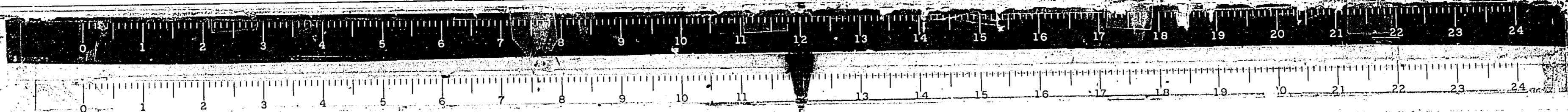
Dec. 14 1977

STATION 243+40.00
REBUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 107 SEC. 12-1BY-1
F.A. PROJ. FR-107(21)
LOADING H520
* STR. No.

NAME PLATE

See Std 2113
* Structure Number to be supplied by District.

PROJECT: F-107(21)
(F.A. RTE. 107) OVER MUD CREEK
(F.A. RTE. 107) SEC. 12-1BY-1
JACKSON COUNTY
STA. 243+40.00

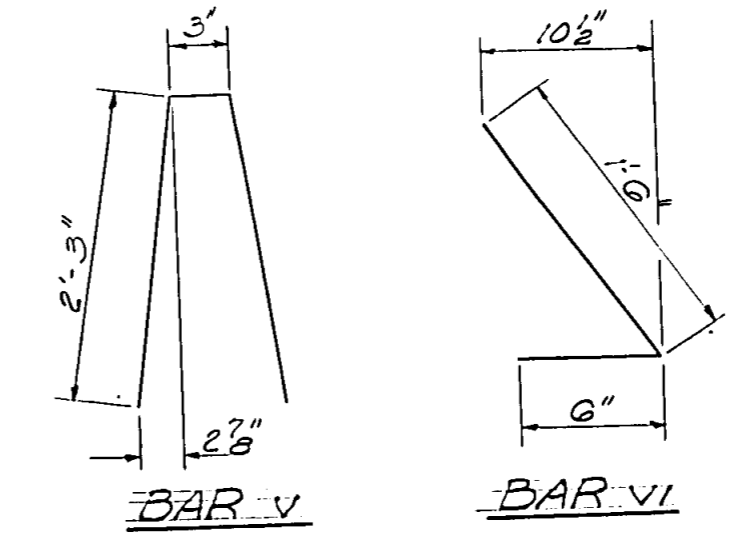
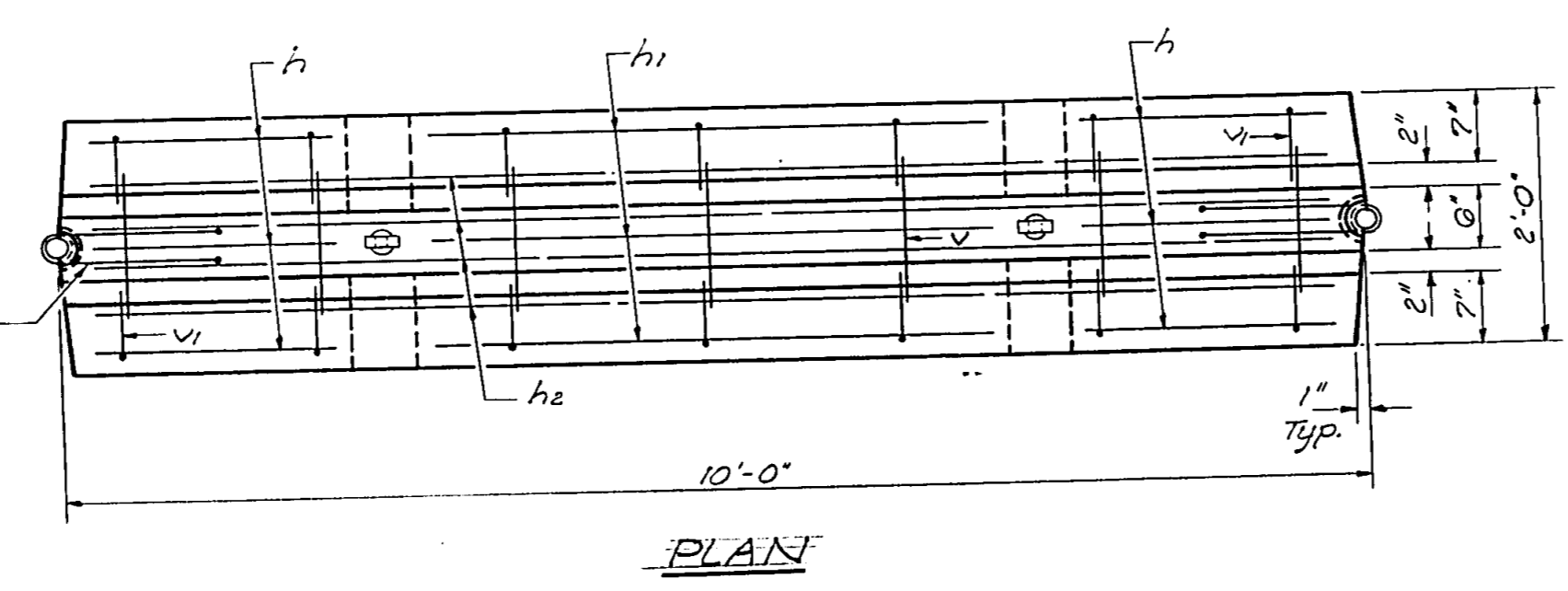
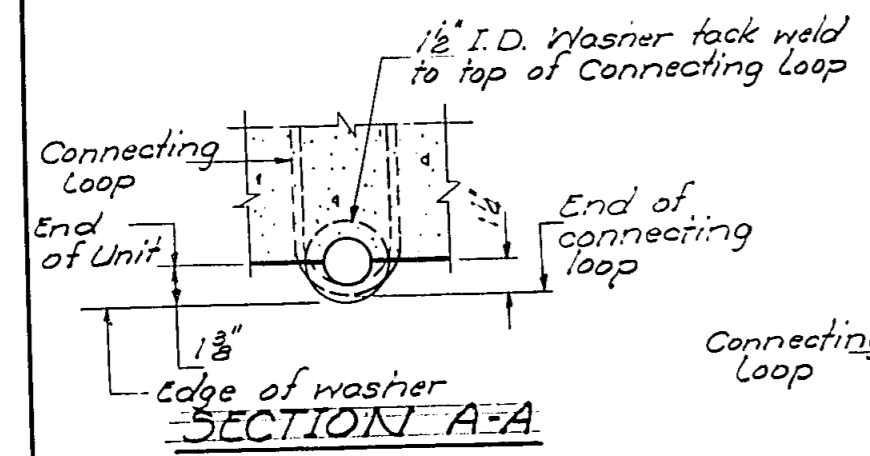
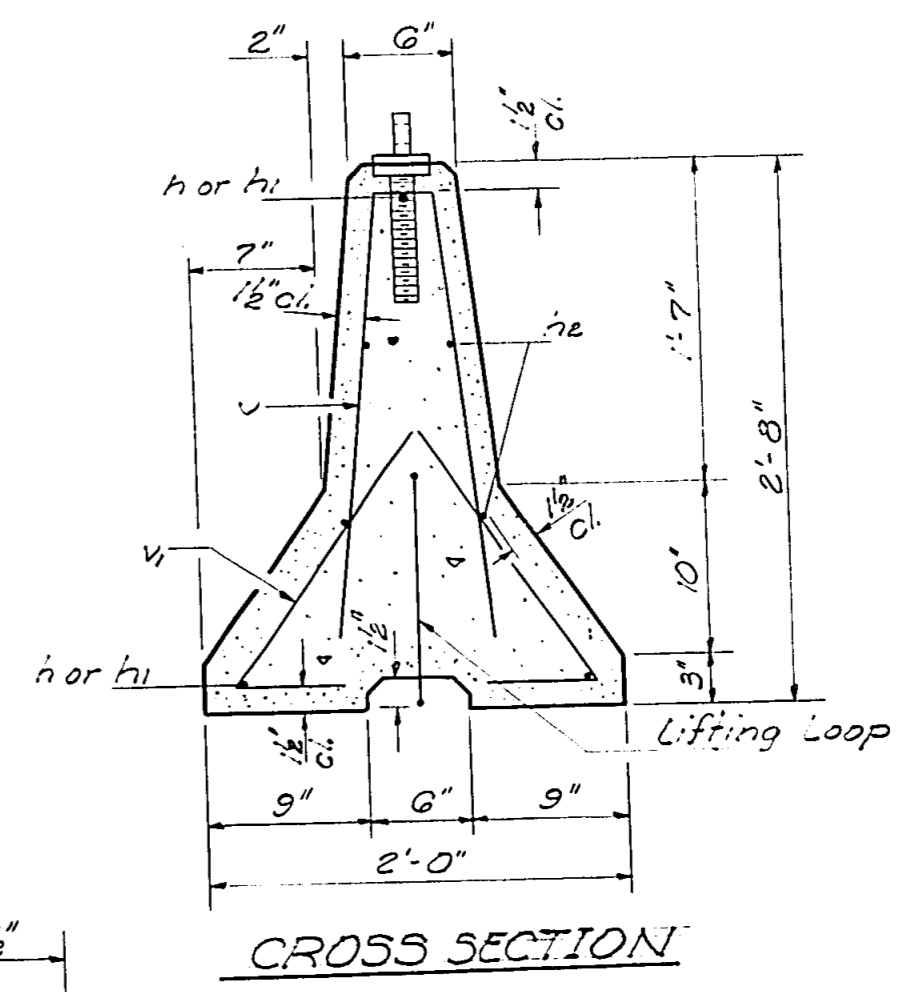
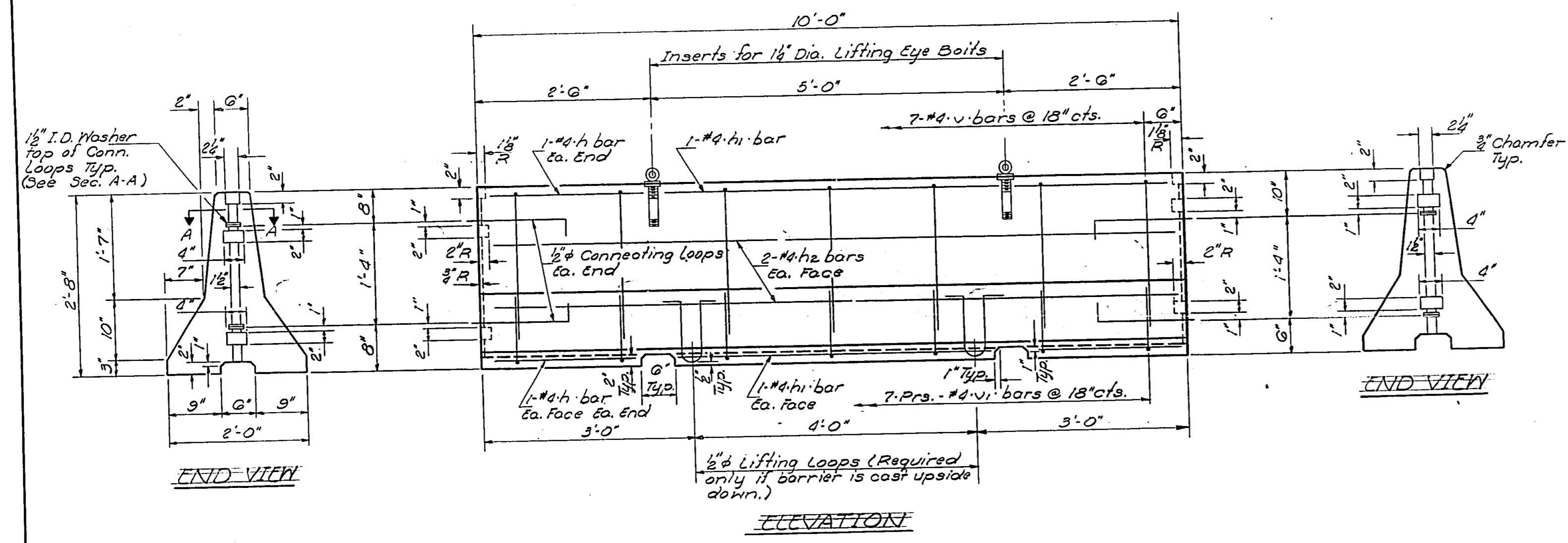


FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-107	184-1	JACKSON	27	13
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 2
6 SHEETS



ONE UNIT - BAR LIST

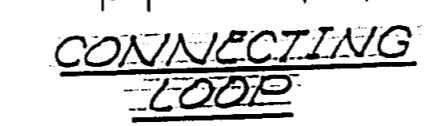
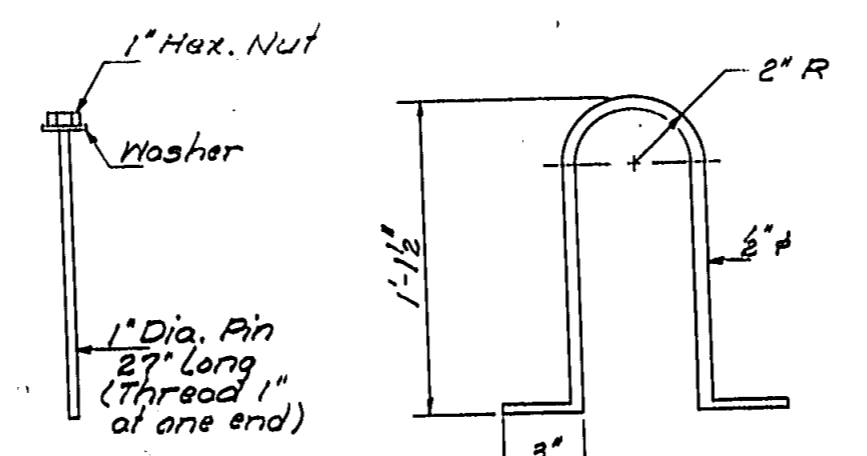
Bar	No	Size	Length	Shape
h	6	#4	2'-0"	—
h1	3	#4	4'-3"	—
h2	1	#4	9'-6"	—
v	7	#4	4'-9"	—
v1	14	#4	2'-0"	—

NOTES:
All lifting loops, lifting eye bolts and inserts, connecting pins, and connecting loops shall be galvanized in accordance with A.A.S.H.T.O. designation M-232.
All connecting pins, lifting eye bolts and inserts, and reinforcement bars and accessories cast into the barrier shall be included in the contract unit bid price for "movable Double Concrete Barrier."

DESIGN STRESSES
f_c = 3500 psi
f_y = 40,000 psi

BILL OF MATERIAL

ITEM	UNIT	Quantity
Movable Double Concrete Barrier	Lin. Ft.	260'



STAGE CONSTRUCTION

Movable Double Concrete Barrier shall be placed the total length of the bridge and extend a Min. of 80 Ft. beyond the approaching traffic end of the bridge. The 80 foot extension shall be tapered to the shoulder edge of the lane to be closed for Stage Construction.

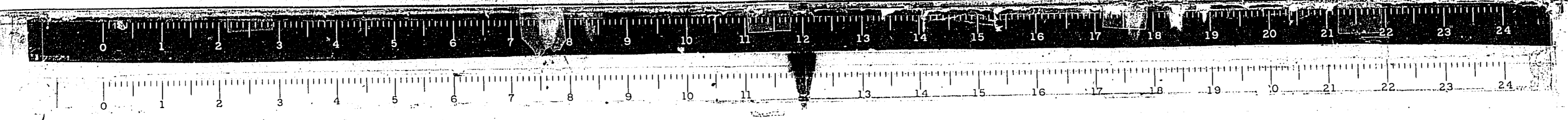
MOVABLE DOUBLE CONCRETE BARRIER

FA RT-107 SEC. 12-1BY-1
JACKSON COUNTY
STA. 243+40.00

DESIGNED: *William H. ...*
CHECKED: *W. H. ...*
DRAWN: *BL*
CHECKED: *Q. S. ...*

EXAMINED: *Carl E. Thompson*
PASSED: _____
APPROVED: _____

Dec. 14 1977

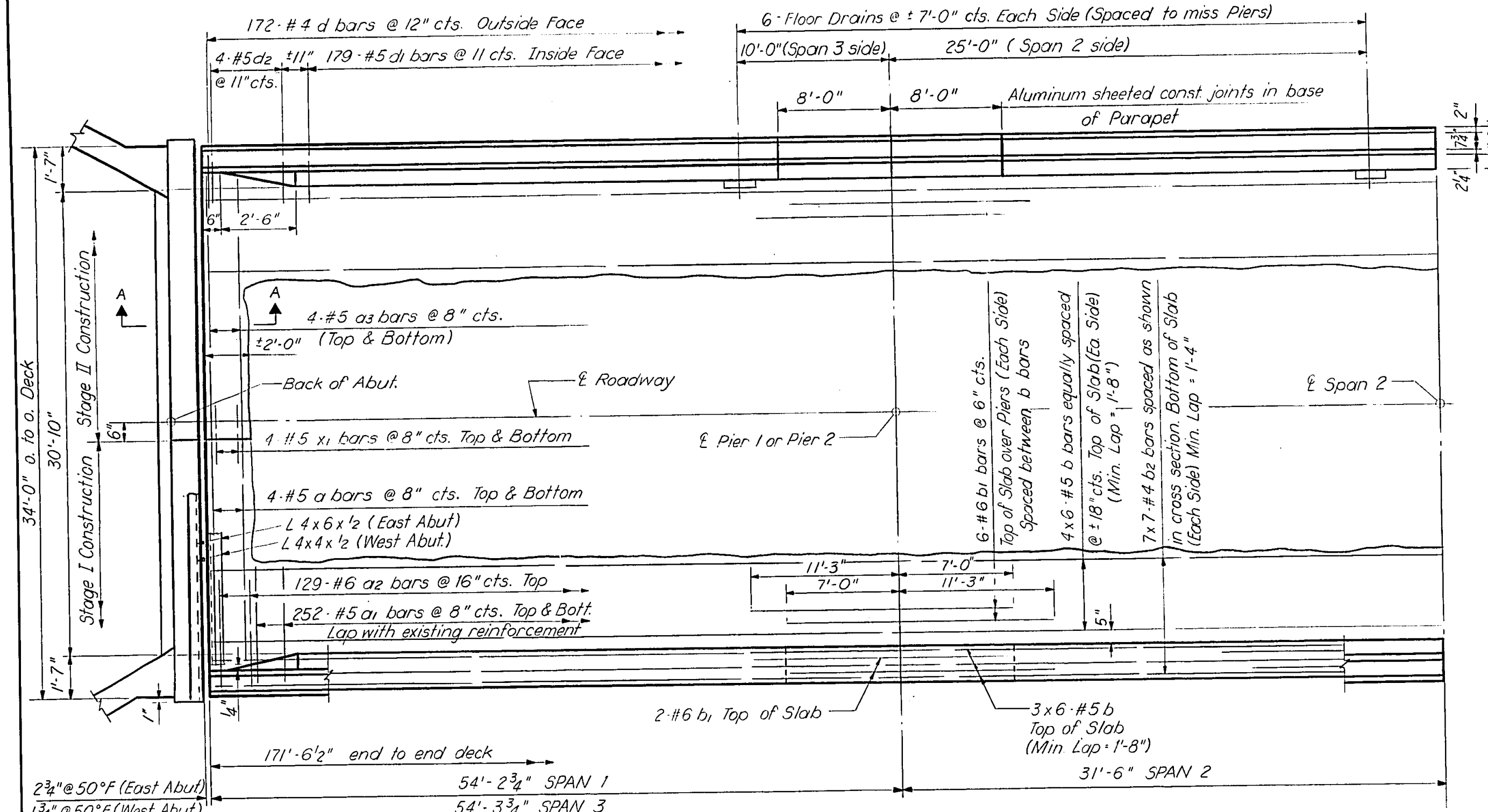


FOR INFORMATION ONLY

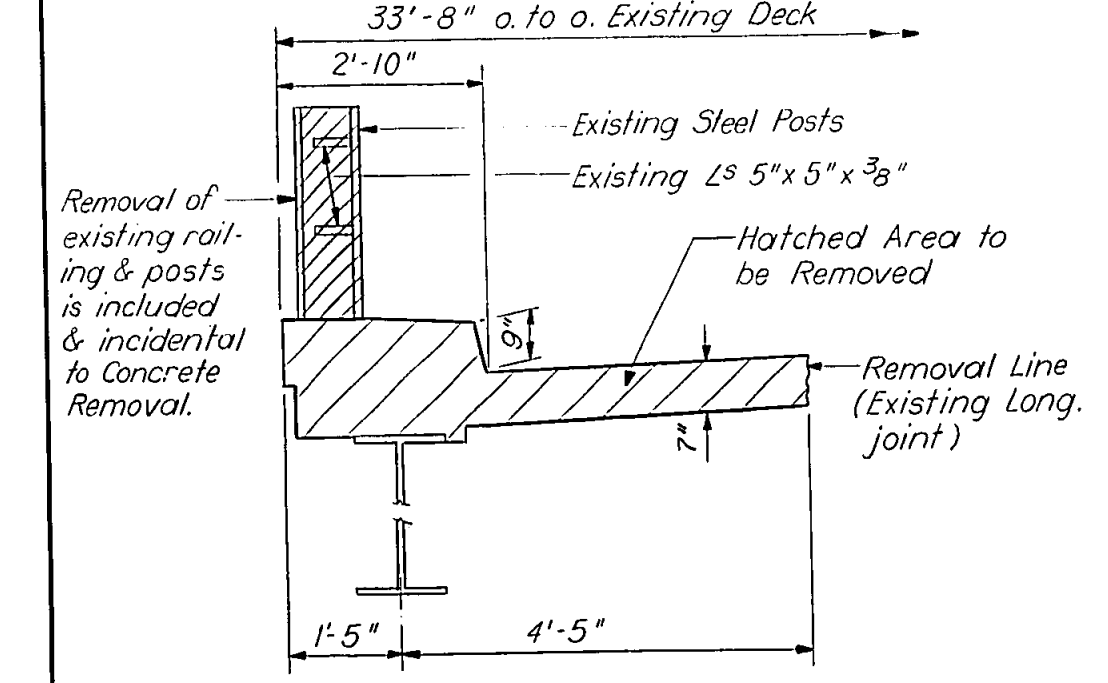
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 107	1B7-1	JACKSON	27	14
FED. ROAD DIST. NO. 7		PLAN NO.	FED. AID PROJECT	

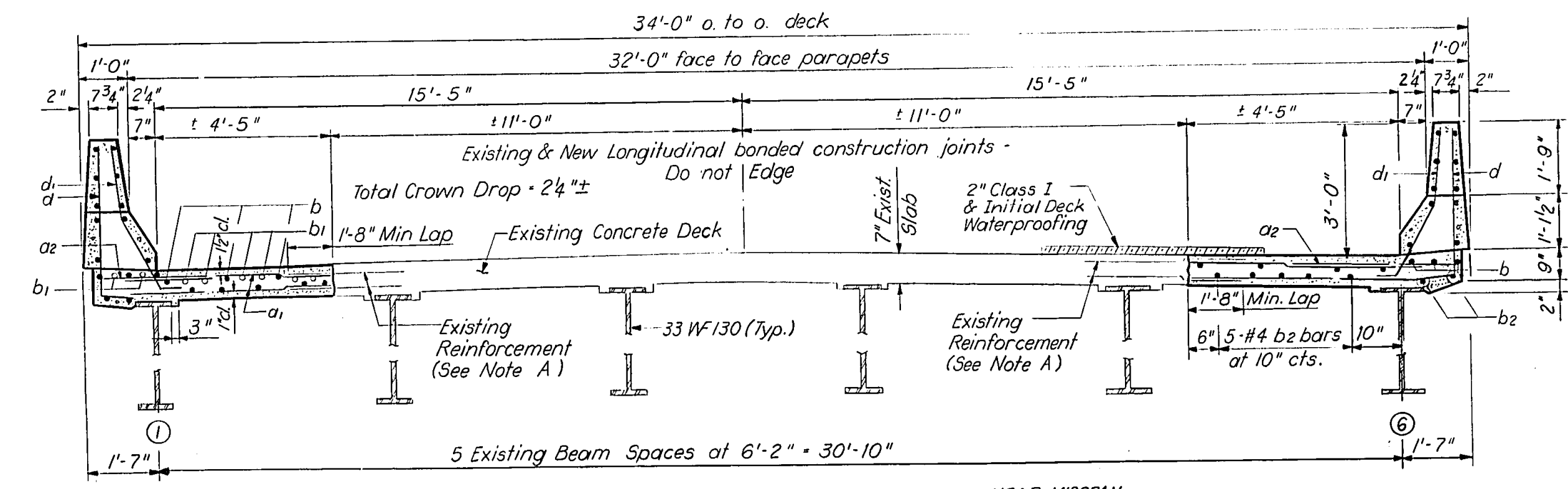
SHEET NO. 3
6 SHEETS



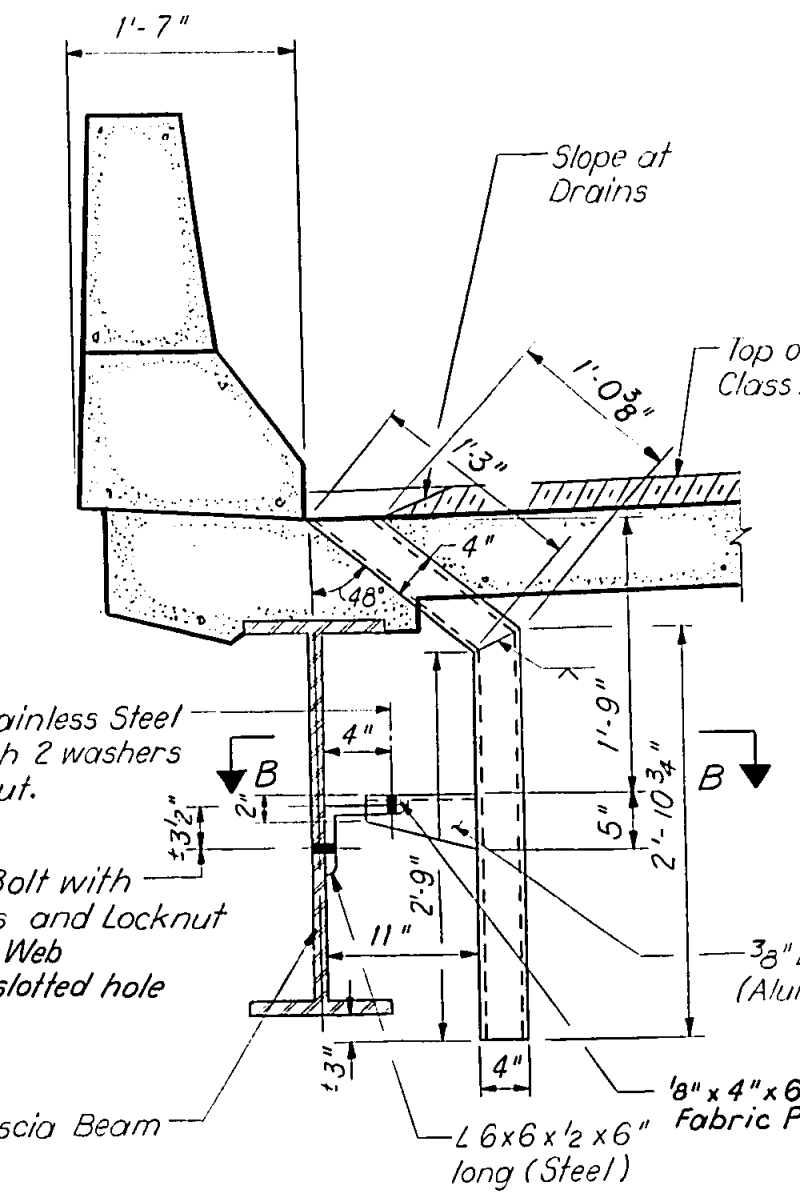
HALF PLAN



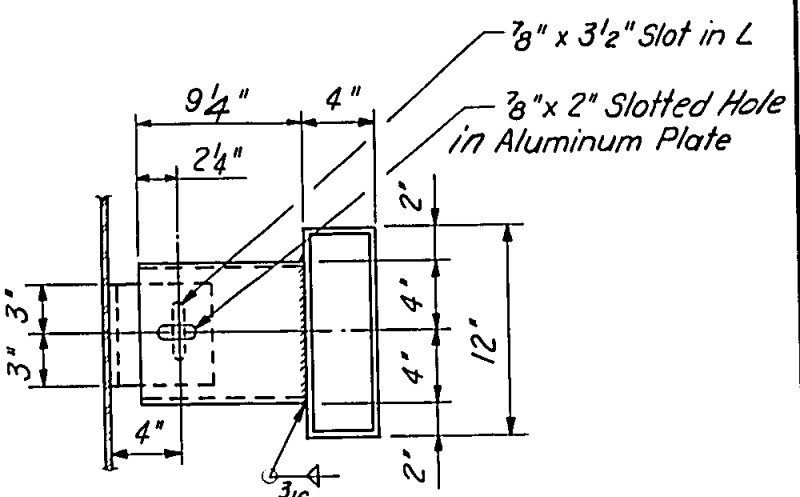
SECTION THRU EXISTING DECK
(Showing Removal)



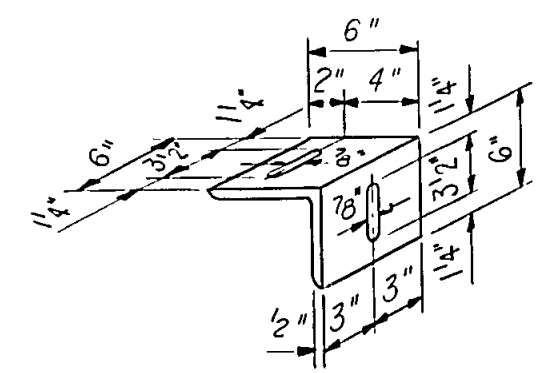
CROSS SECTION
LOOKING WEST



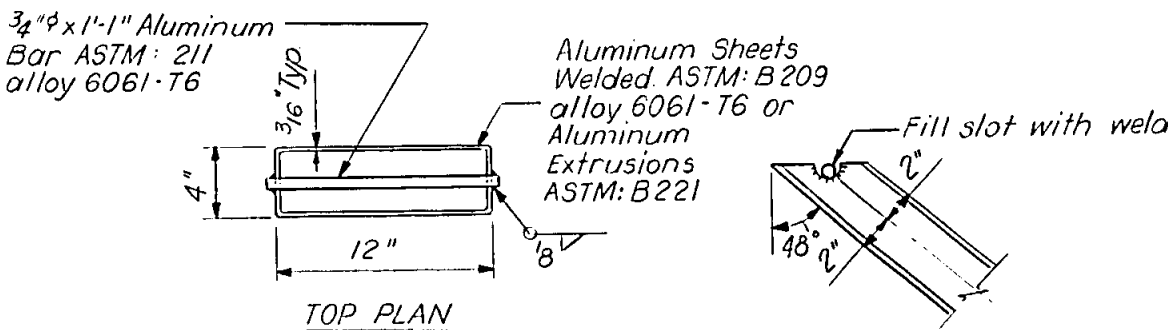
SECTION THRU CURB



SECTION B-B



ANGLE DETAIL



DRAIN DETAILS
(Cost of attachments is included and incidental to Floor Drains.)

NOTES:
See sheet # 4 for superstructure details, Bill of Material, and Section A.A.

Bars indicated thus 20 x 3 # 5 etc. indicate 20 lines of bars with 3 lengths per line.

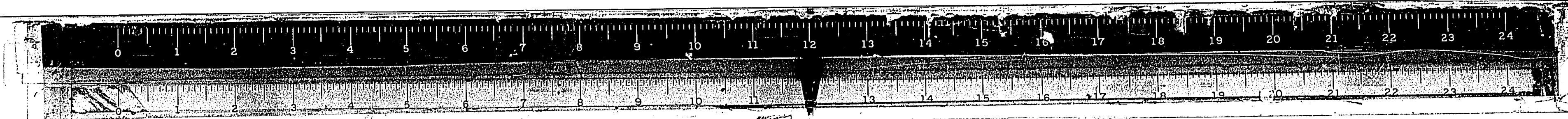
Note A:
Existing reinforcement extending into new concrete areas shall be cut as shown, cleaned and incorporated into the new construction.

DESIGNED <i>William Hanning</i>	EXAMINED <i>Carl H. Hummer</i>
CHECKED <i>Don C. Hill</i>	PASSED
DRAWN <i>JP</i>	APPROVED
CHECKED <i>D. L. G.</i>	

Dec. 14 1977
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
ENGINEER OF DESIGN
DIRECTOR OF HIGHWAYS

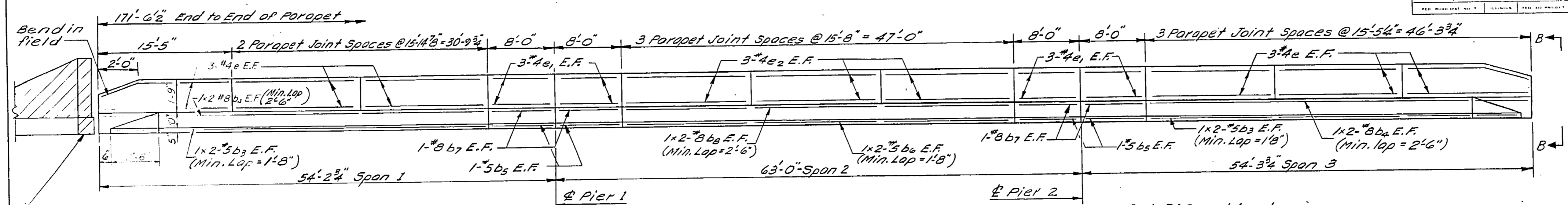
SUPERSTRUCTURE
F.A. ROUTE 107 - SECTION 12-1B7-1
JACKSON COUNTY
STA. 243 + 40.00

FOR INFORMATION ONLY



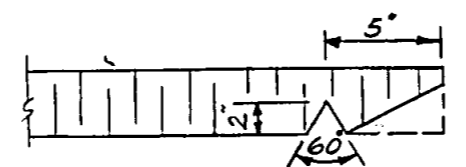
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	12-1	COUNTY	JACKSON	SHEET NO.	15
DATE	10-1-77	DESIGNED BY	W. H. HANCOCK	CHECKED BY	D. S. B.

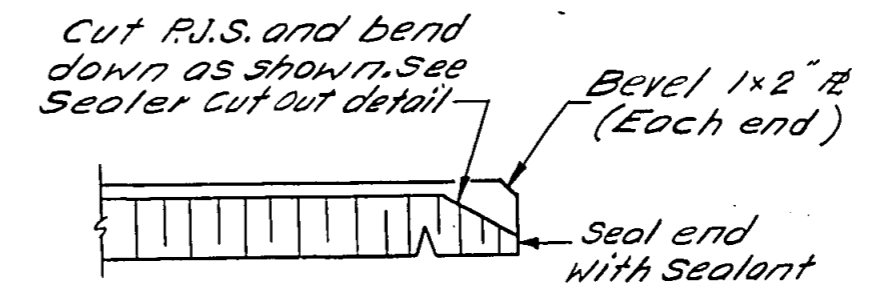
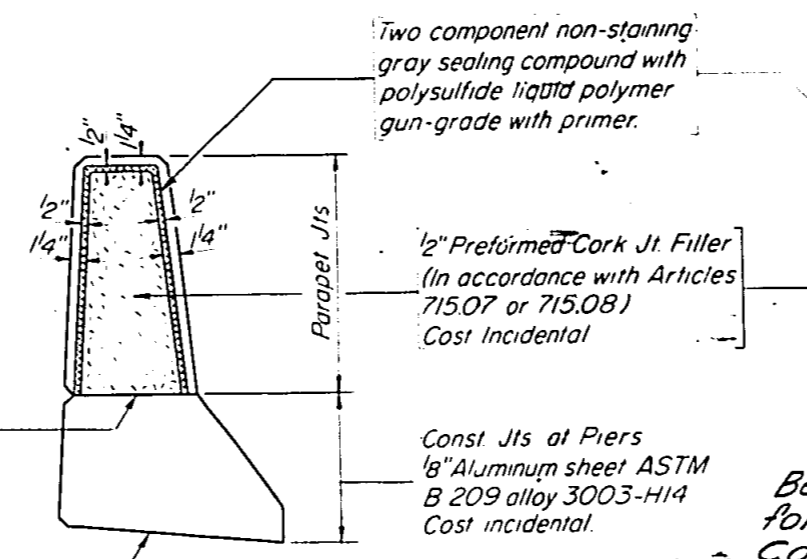


Existing Curb & End Post. Hatched area to be re-moved. See sheet #546 for details.

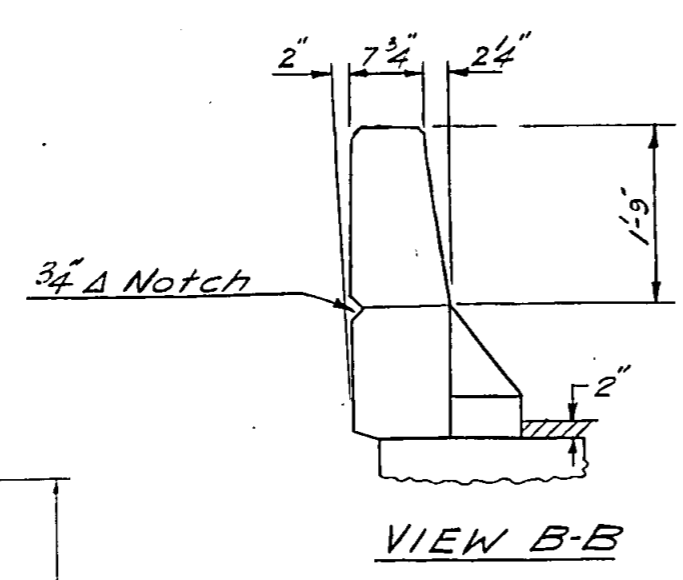
INSIDE ELEVATION OF PARAPET



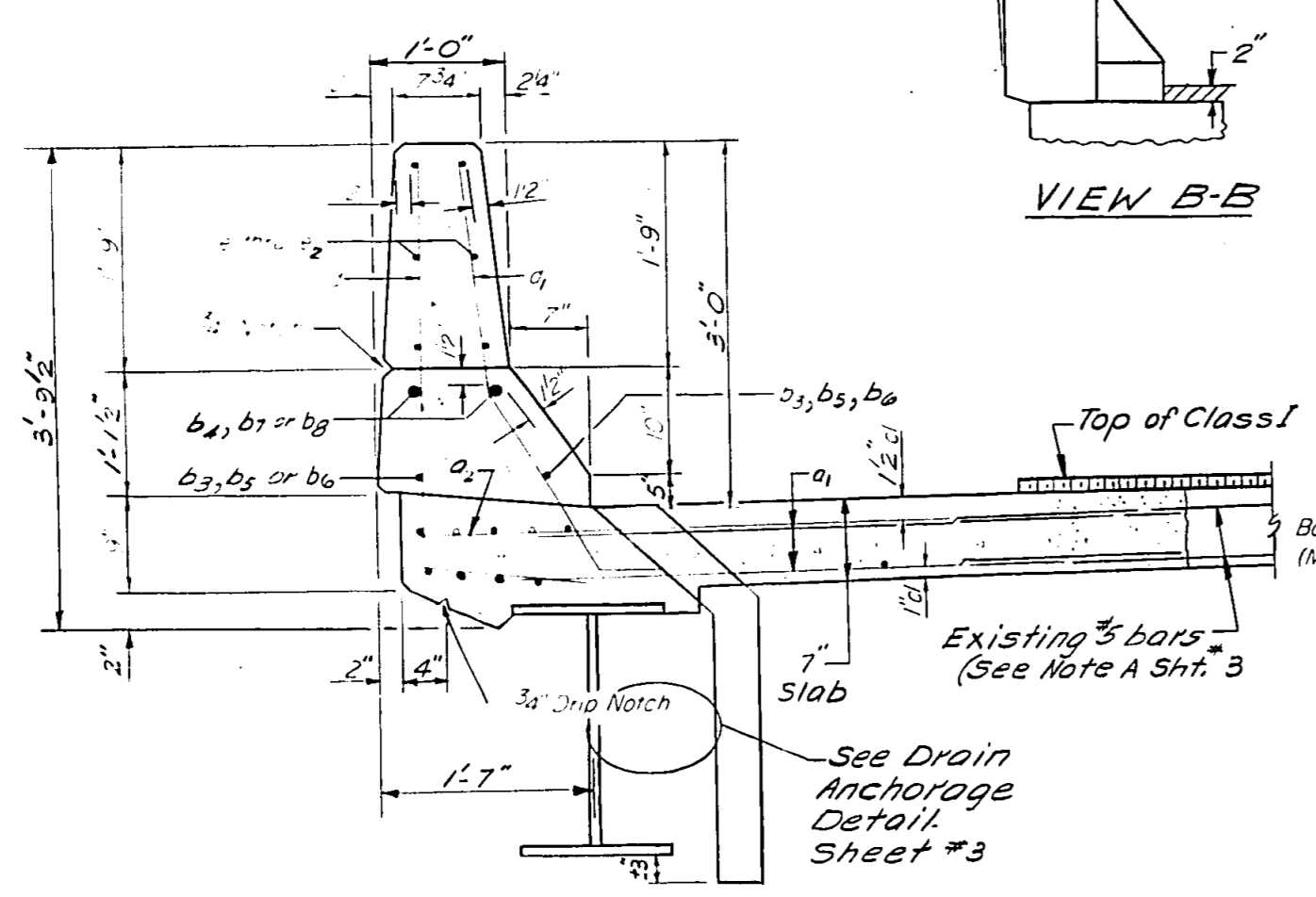
SEALER CUTOUT DETAIL



END OF SEALER TREATMENT

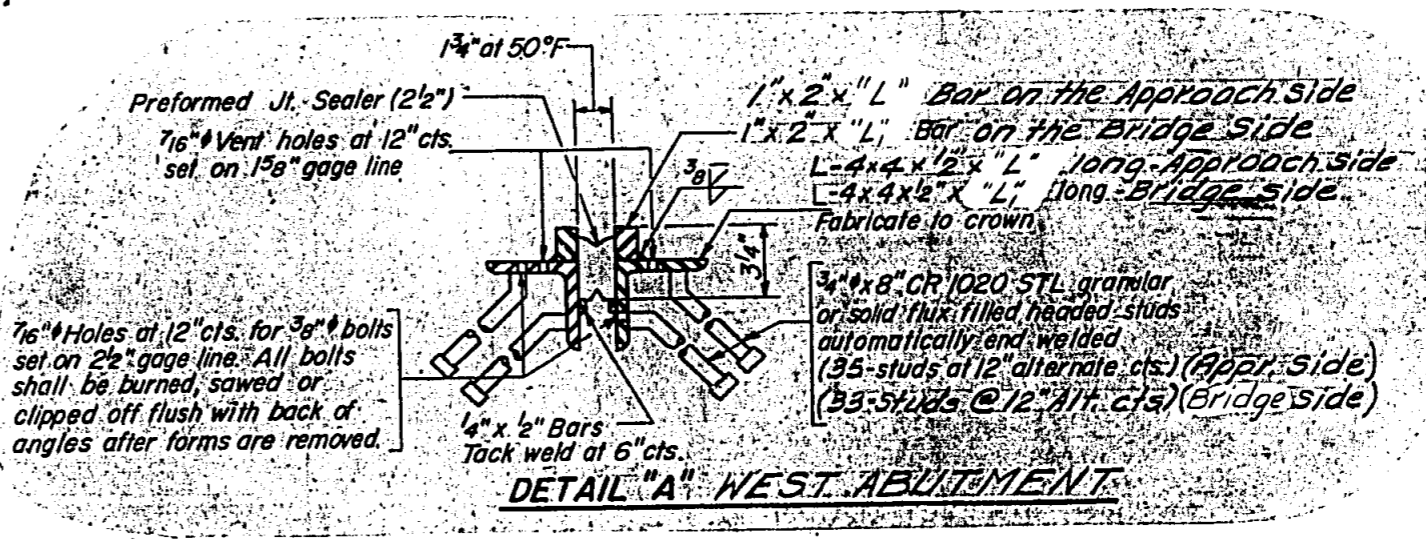
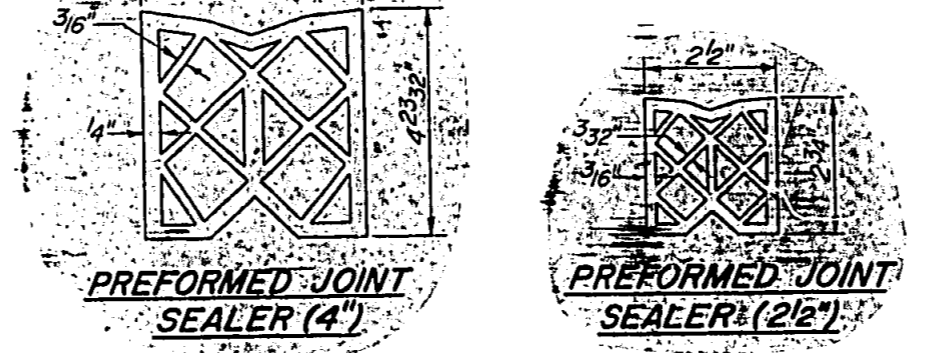


VIEW B-B

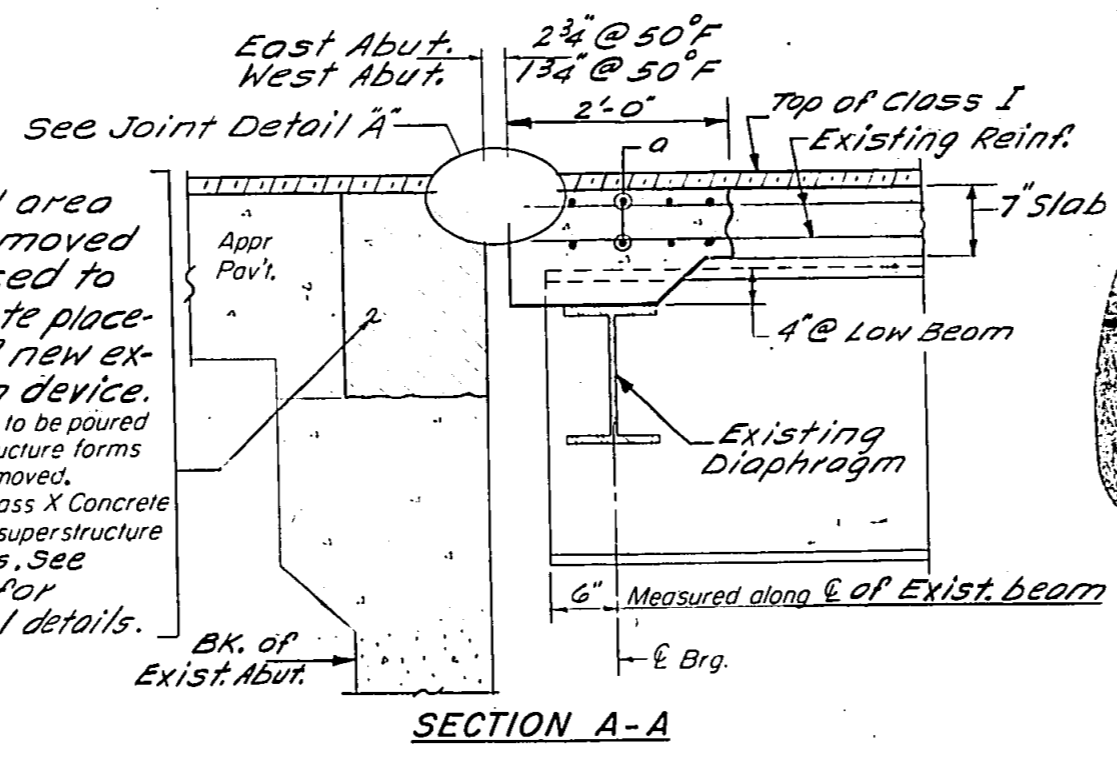


SECTION THRU PARAPET

PARAPET JOINT DETAILS



DETAIL A WEST ABUTMENT



SECTION A-A

Hatched area to be removed & replaced to facilitate placement of new expansion device. Hatched area to be poured after superstructure forms have been removed. Quantity of Class X Concrete included with superstructure quantities. See Sht. 546 for removal details.

DESIGNED BY	W. H. HANCOCK	EXAMINED BY	C. E. HUMPHREYS
CHECKED BY	D. S. B.	PASSED BY	
DRAWN BY	D. S. B.	APPROVED BY	
CHECKED BY	D. S. B.	DIRECTOR OF HIGHWAYS	

SUPERSTRUCTURE BILL OF MATERIAL

Bar No.	Size	Length	Shape
a	#5	16'-1"	
a1	#5	5'-0"	
a2	#6	4'-0"	
a3	#5	17'-1"	
b	#5	23'-11"	
b1	#6	13'-3"	
b2	#4	25'-9"	
b3	#5	24'-0"	
b4	#8	24'-6"	
b5	#5	7'-9"	
b6	#5	24'-3"	
b7	#8	7'-9"	
b8	#8	24'-9"	
d	#4	2'-0"	L
d1	#5	4'-0"	L
d2	#5	4'-2"	L
e	#4	15'-1"	
e1	#4	7'-9"	
e2	#4	15'-5"	
X1	#5	4'-0"	L
Reinforcement Bars			Lbs 16450
Class X Concrete			Cu Yds 91.9
Concrete Removal			Cu Yds 73

* X1 bars shall conform to the requirements of AASHTO M-31 or M-53 except the Min. yield strength shall not be less than 33000 psi nor more than 45000 psi

SUPERSTRUCTURE DETAILS
F.A. RT. 107 SEC. 12-1BY-1
JACKSON COUNTY
STA. 243+40.00

S-1-D 9-27-76

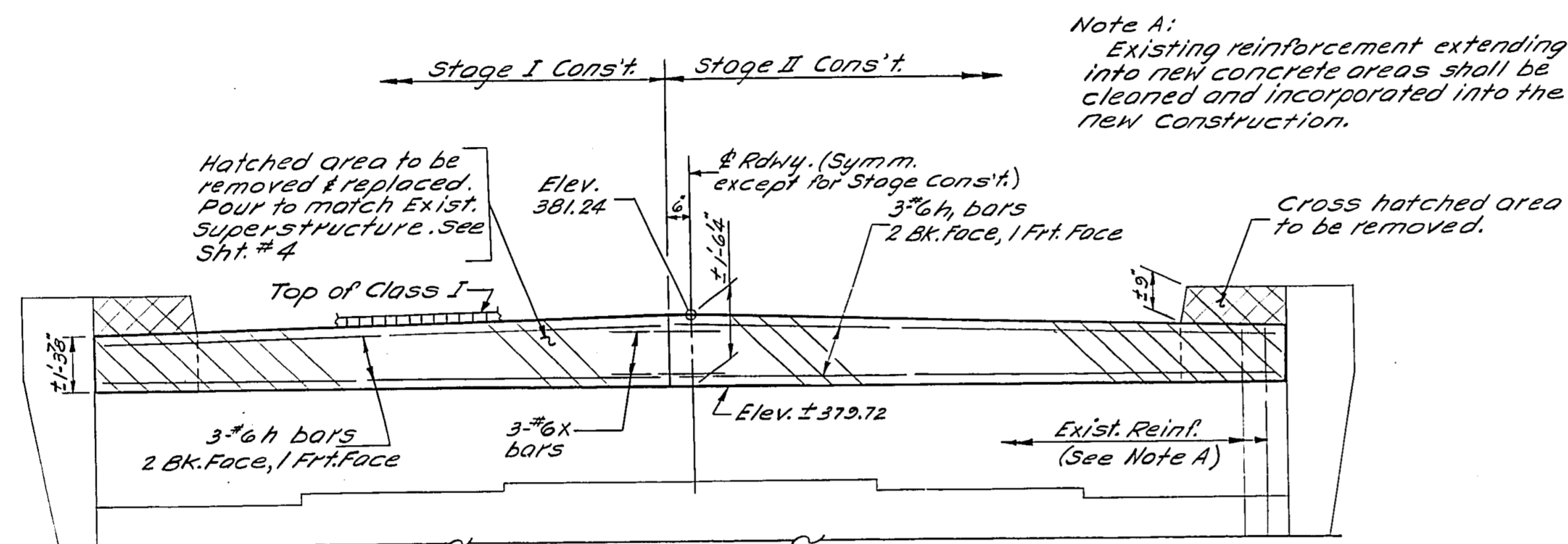
Rev. 2-1-77

FOR INFORMATION ONLY

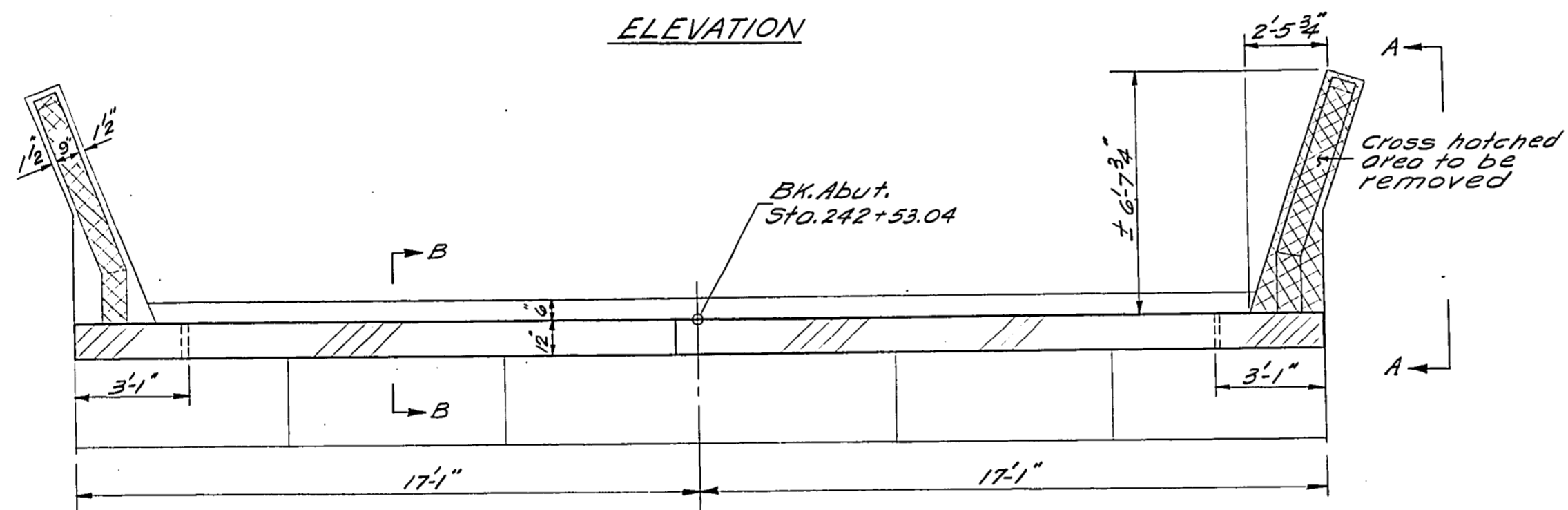
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R.R. 1	12-	JACKSON	27	16
P.A. 107	12-1	ILLINOIS	FED. AID PROJECT	

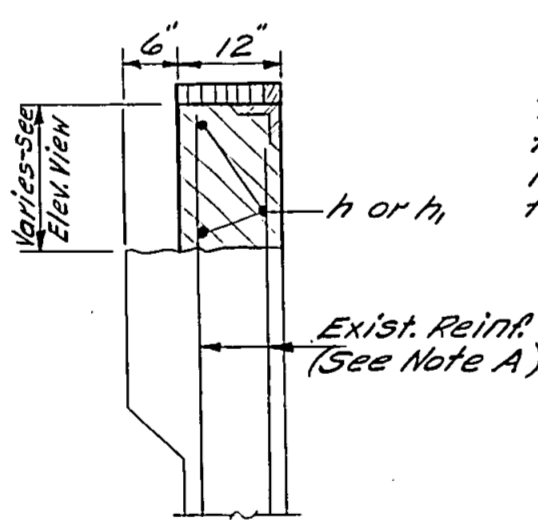
SHEET NO. 5
6 SHEETS



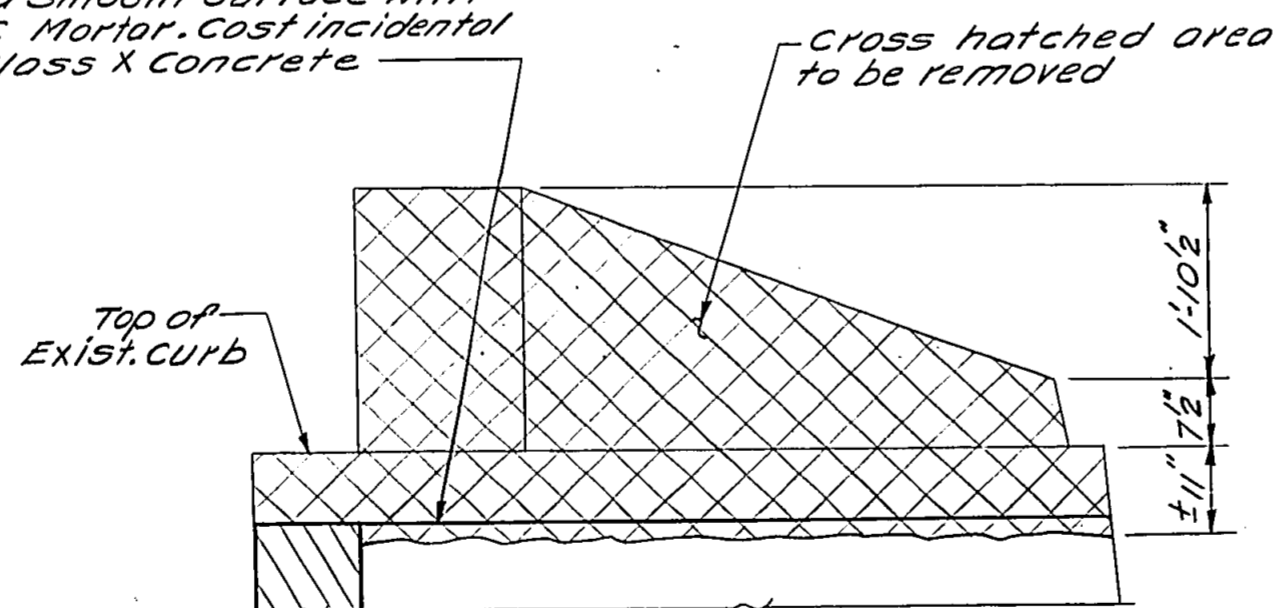
ELEVATION



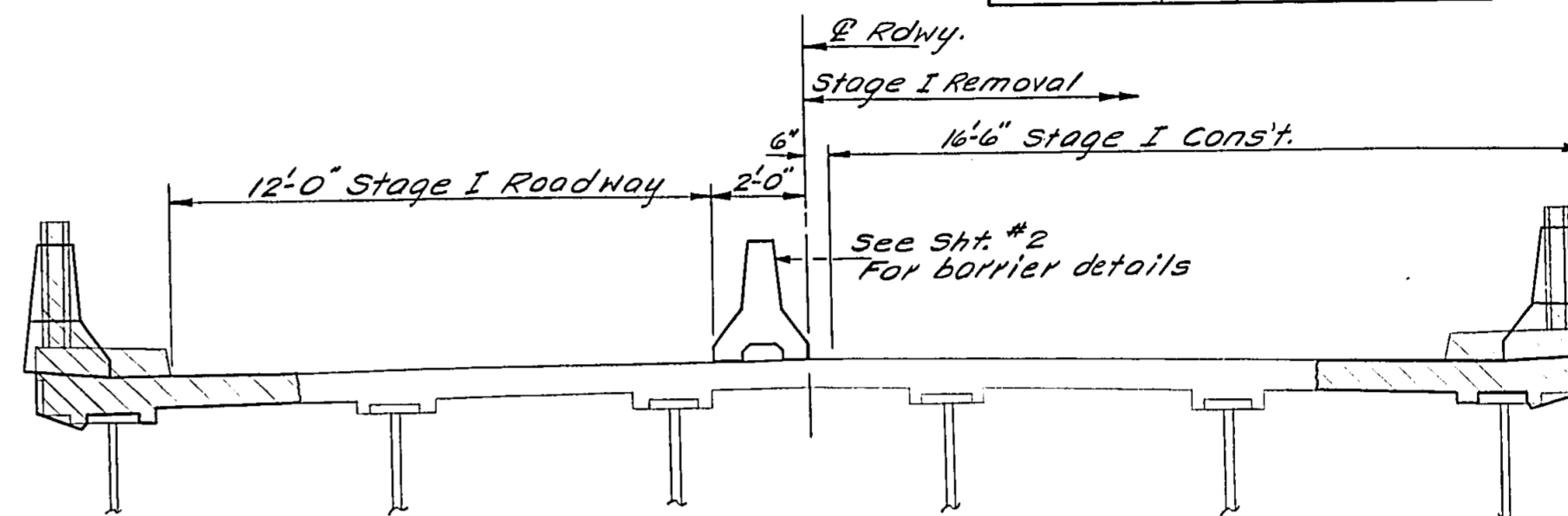
PLAN



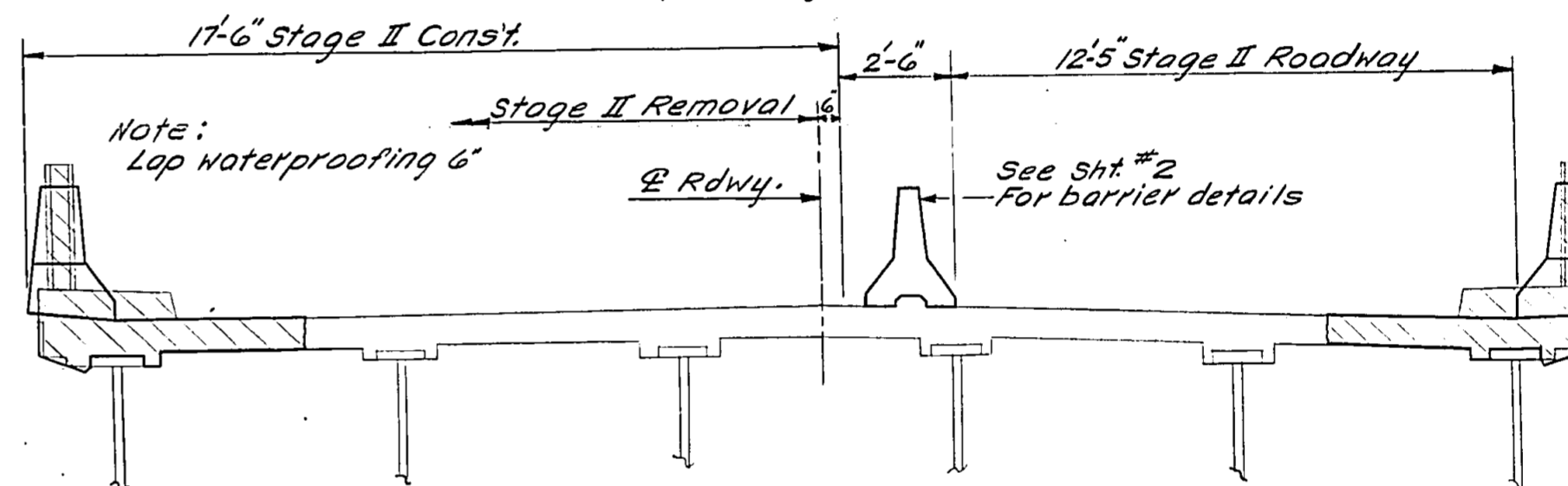
SECTION B-B



VIEW A-A



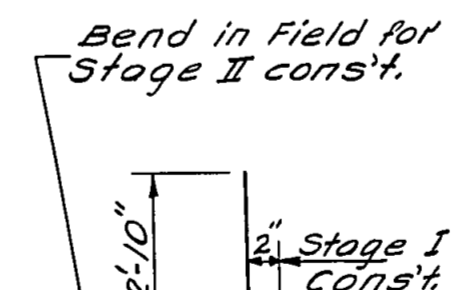
STAGE I REMOVAL AND REPLACEMENT
(Looking West)



STAGE II REMOVAL AND REPLACEMENT
(Looking West)

BILL OF MATERIAL

Bar No.	Size	Length	Shape
h	#6	16'-4"	—
h1	#6	17'-4"	—
* X	#6	5'-8"	L
Reinf. Bars		Lbs.	180
Concrete Removal		Cu.Yds.	3



* BAR X

* X bars shall conform to the requirements of AASHTO M-31 or M-53 except the min. yield strength shall not be less than 33,000 psi nor more than 45,000 psi.

DESIGNED *W. H. Thompson*
CHECKED *D. J. Chilton*
DRAWN *J. P. H.*
CHECKED *D. J. C.*

EXAMINED *Dec. 16 1977*
PASSED *C. E. Thompson*
APPROVED _____
DIRECTOR OF HIGHWAYS

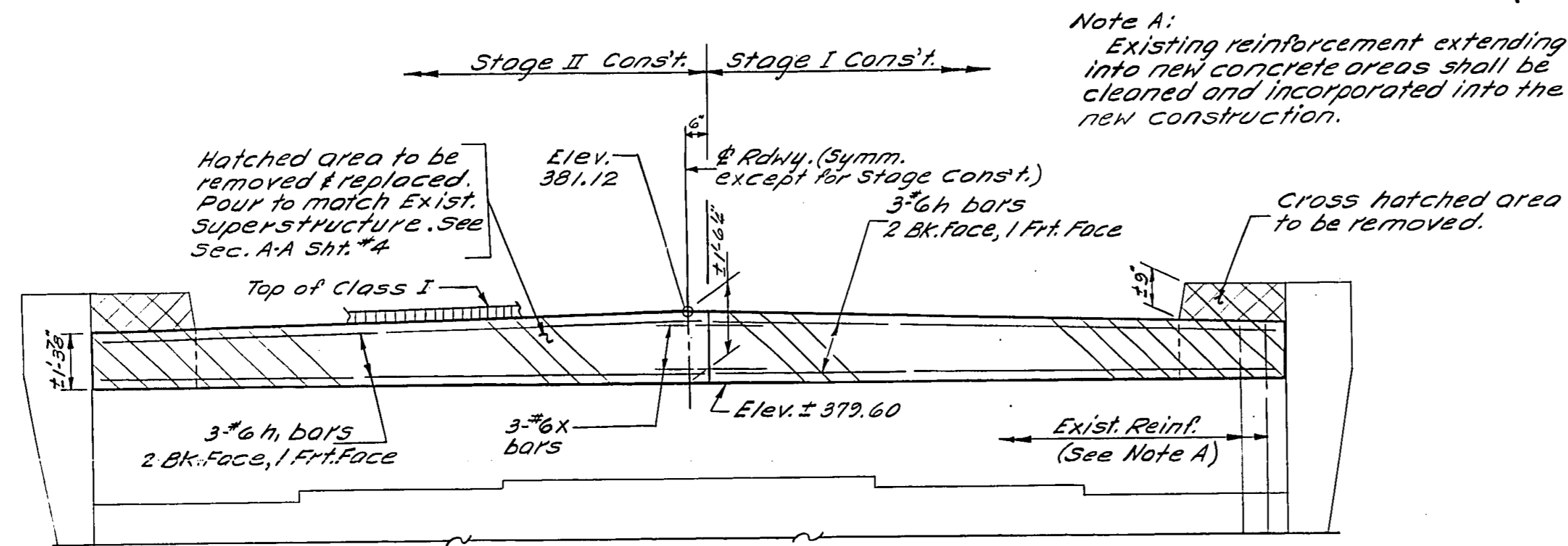
EAST ABUTMENT AND
STAGE CONSTRUCTION DETAILS
F.A. RT.107 SEC. 12-1BY-1
JACKSON COUNTY
STA. 243+40.00

FOR INFORMATION ONLY

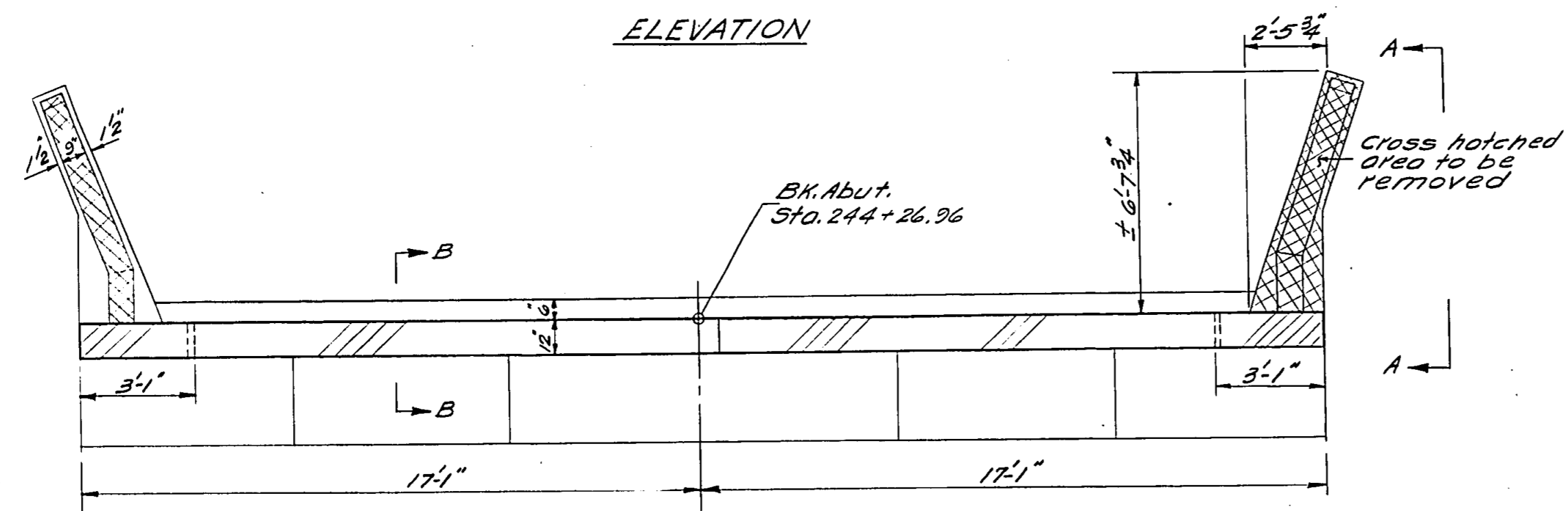
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 107	12-1BY-1	JACKSON	17	17
ILLINOIS		FED. AID PROJECT		

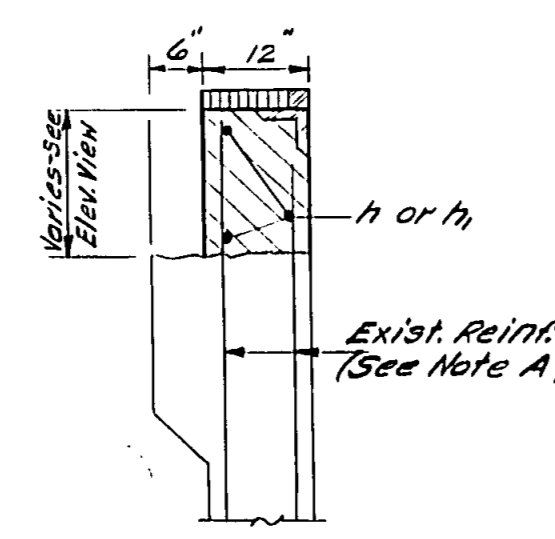
6 SHEETS



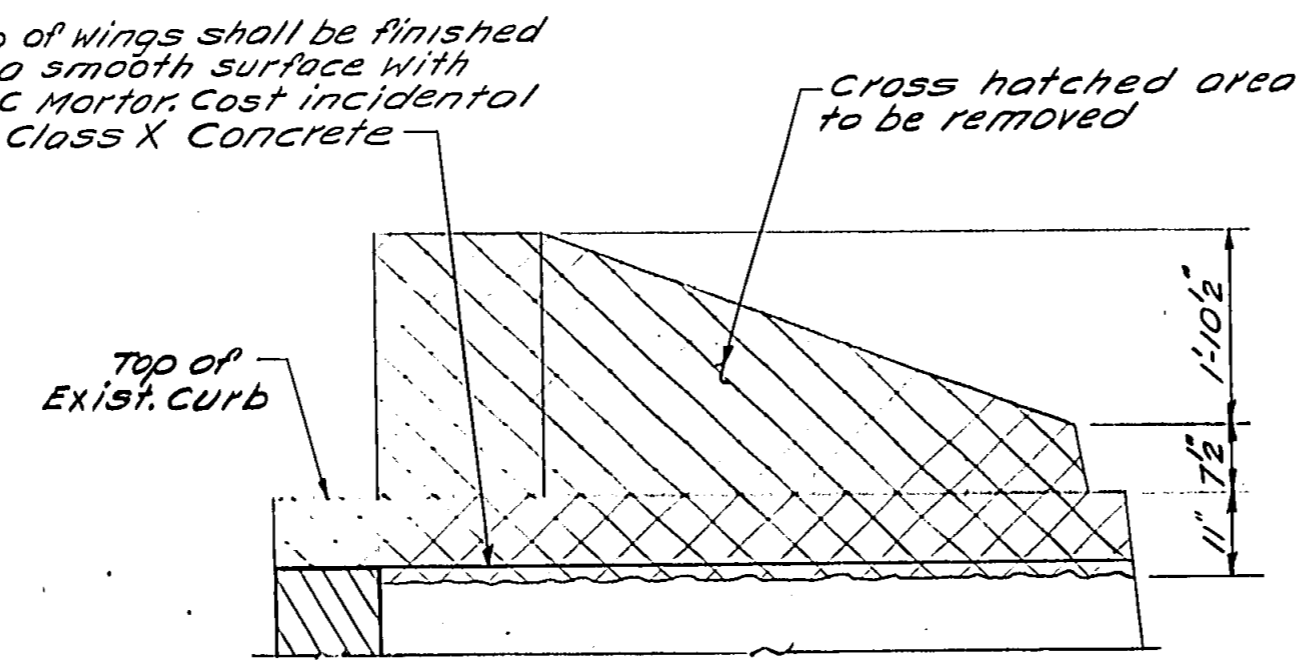
ELEVATION



PLAN



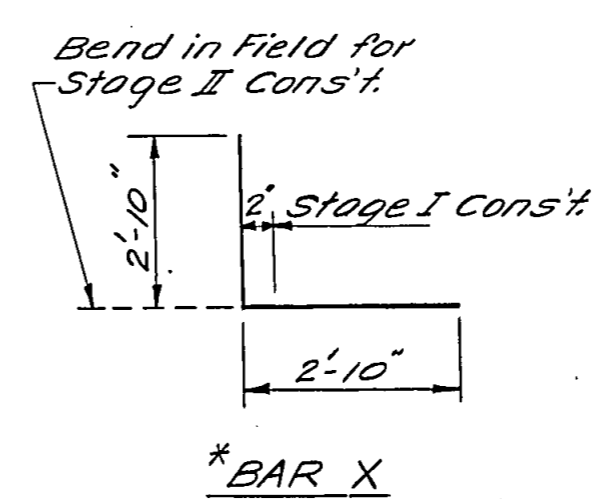
SECTION B-B



VIEW A-A

Note A:
Existing reinforcement extending into new concrete areas shall be cleaned and incorporated into the new construction.

* X bars shall conform to the requirements of AASHTO M31 or M53 except the Min. yield strength shall not be less than 33,000 psi nor more than 45,000 psi.



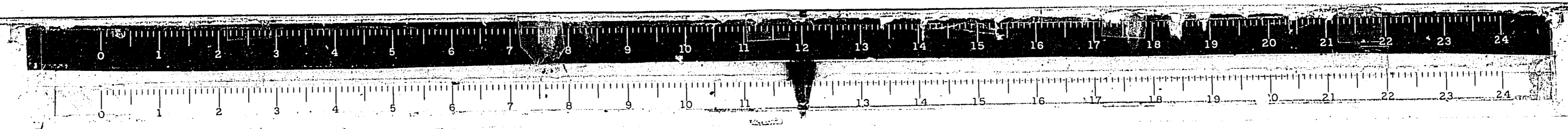
BILL OF MATERIAL

Bar No.	Size	Length	Shape
h	#6	16'-4"	—
h ₁	#6	17'-4"	—
* X	#6	5'-8"	L
Reinf. Bars		Lbs.	180
Concrete Removal		CuYds.	3

DESIGNED *W. Allen*
CHECKED *James Chilton*
DRAWN *L.E.H.*
CHECKED *D.S.C.*

EXAMINED *Carl E. Thompson*
PASSED
APPROVED

WEST ABUTMENT
FA. RT. 107 SEC. 12-1BY-1
JACKSON COUNTY
STA. 243+40.00



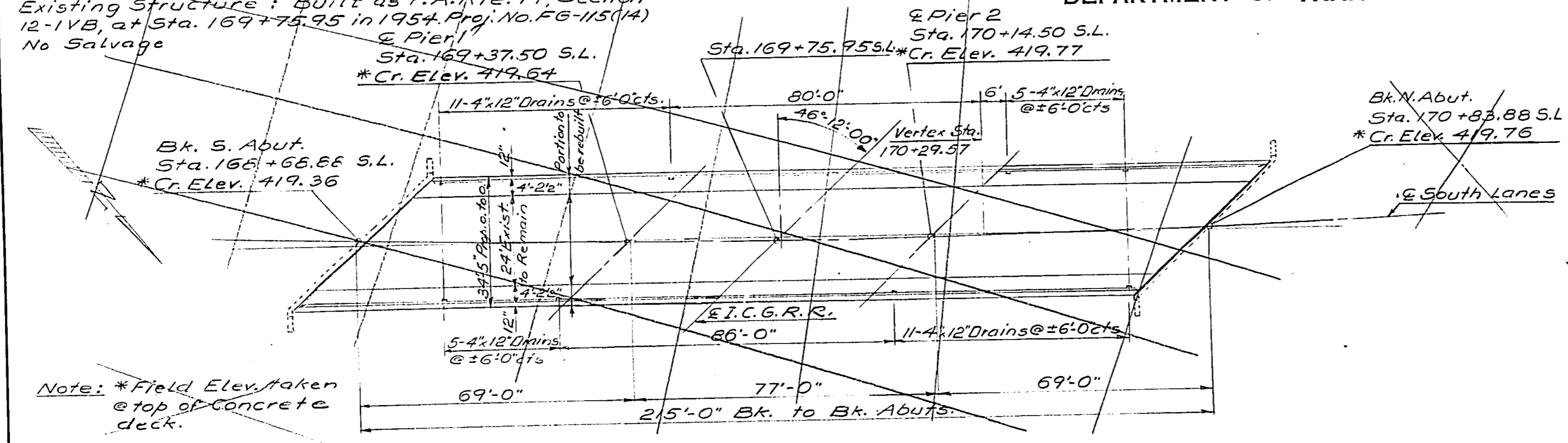
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
F.A. 107	12-1BJ-2	JACKSON	27	18
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 1
4 SHEETS

B.M.: USC # 65 Bronze Disc. Stamped A-149-1949
44' Rt. Sta. 168+12 N.L. Elevation 392.07
Existing Structure: Built as F.A. Rte. 14, Section 12-1VB, at Sta. 169+75.95 in 1954, Proj. No. F-115(14)
No Salvage



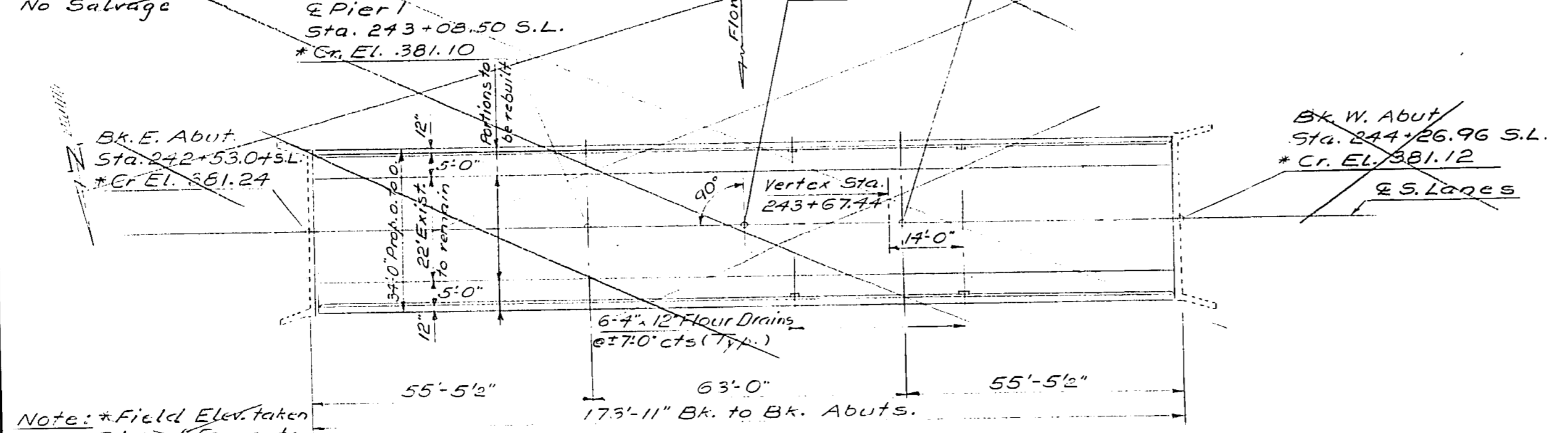
CURVE DATA

A	= 59°-32'
L	= 14,883.3'
T	= 8,982.3'
D	= 0°-24'
R	= 14,323.97'
E	= 2,177.3'
S.E.	= 0.000% (1%)

Retain Crown.

Note: *Field Elev. taken @ top of concrete deck.

B.M.: 'a' cut in S.W. corner of hubguard, 79 Ft. Lt.
Sta. 244+75 N.L. Elevation 381.73
Existing Structure: Built as F.A. Rte. 14, Section 12-1B-1, at Sta. 243+40 in 1954, Project No. F-115(16)
No Salvage

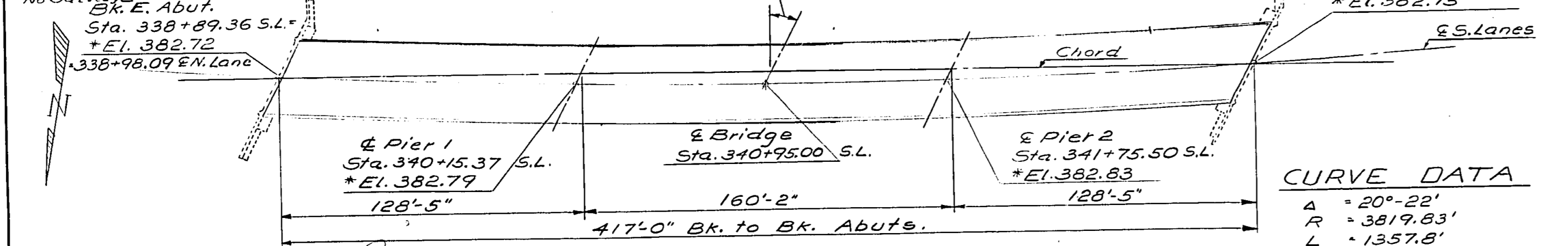


STATION 340+95.00
REBUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 107 SEC. 12-1BJ-2
F.A. PROJ. F-107(21)
LOADING HS20
STR. No.

NAME PLATE
See Std. 2113
*Structure Number to be supplied by District.

Note: *Field Elev. taken @ top of concrete deck.

B.M.: 'a' Cut in S.E. Hubguard of Existing Bridge 86' Lt.
Sta. 339+03 N.L. Elevation 383.27
Existing Structure: Built as F.A. Rte. 14, Section 12-1B-2, 1F-2, at Sta. 340+95 in 1954, Proj. No. U-115(17)
No Salvage



CURVE DATA

A	= 20°-22'
R	= 3819.83'
L	= 1357.8'
D	= 1°-30'
T	= 686.2'
P.I.	= 342+62.8
S.E.	= 0.02%
S.E. Attained Sta.	335+05.2 to Sta. 336+47.2
S.E. Attained Sta.	349+59.4 to Sta. 349+09.4

DESIGN STRESSES
f_c = 3500 psi
f_y = 60000 psi (Rein. - Field units)

** See Special Provisions

GENERAL NOTES

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
The concrete rail section above the mandatory construction joint at the top of the sidewalk shall be constructed of Class X concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60 (Field Units).
Stage Construction to be utilized to maintain one way traffic at all times. (See Sht. #2 for details.)

BILL OF MATERIAL

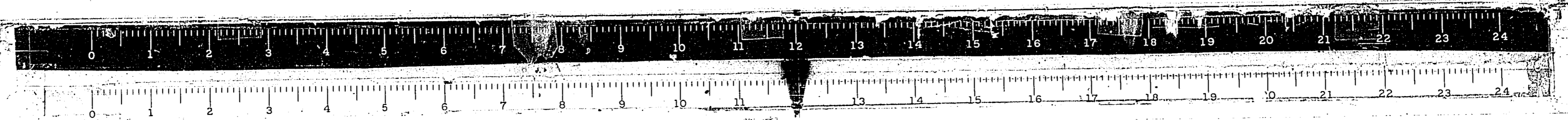
ITEM	Unit	Super	Sub.	Total
Protective Coat	Sq. Yds.	283		283
Class X Concrete	Sq. Yds.	571		571
Reinforcement Bars	Lbs.	3460		3460
Threaded Rods 1" φ	Each	1236		1236
Concrete Removal	Cu. Yds.	5		5
Bridge Handrail Removal	Ltn. Ft.	831		831
Movable Double Concrete Barrier	Ltn. Ft.	500		500
Aluminum Railing	Ltn. Ft.	819		819
Name Plates	Each	1		1

See Sheet 23 for Bill of Materials for Joint Repair, and Waterproofing and Resurfacing of Existing Deck.

GENERAL PLAN
PROJECT: F-107(21)
(F.A. RTE. 107) OVER BIG MUDDY RIVER
(F.A. RTE. 107) SEC. 12-1BJ-2
JACKSON COUNTY
STA. 340+95.00

DESIGNED *W. M. Thompson*
CHECKED *Pam Abilkin*
DRAWN *V.H.*
CHECKED *D.H.*

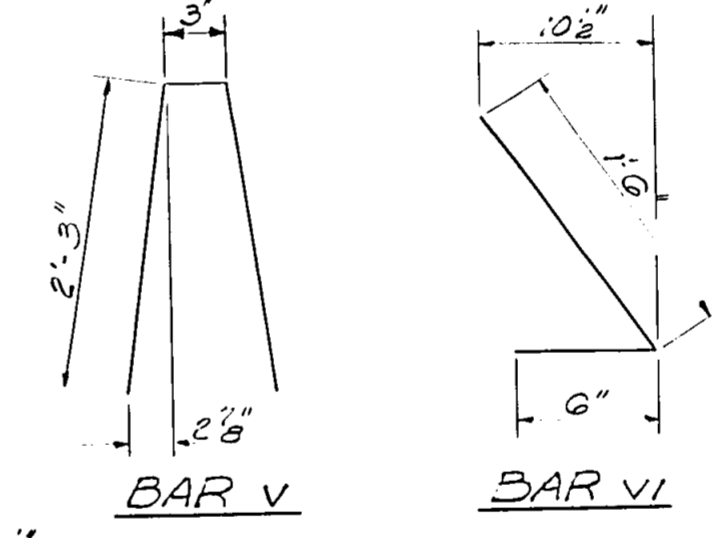
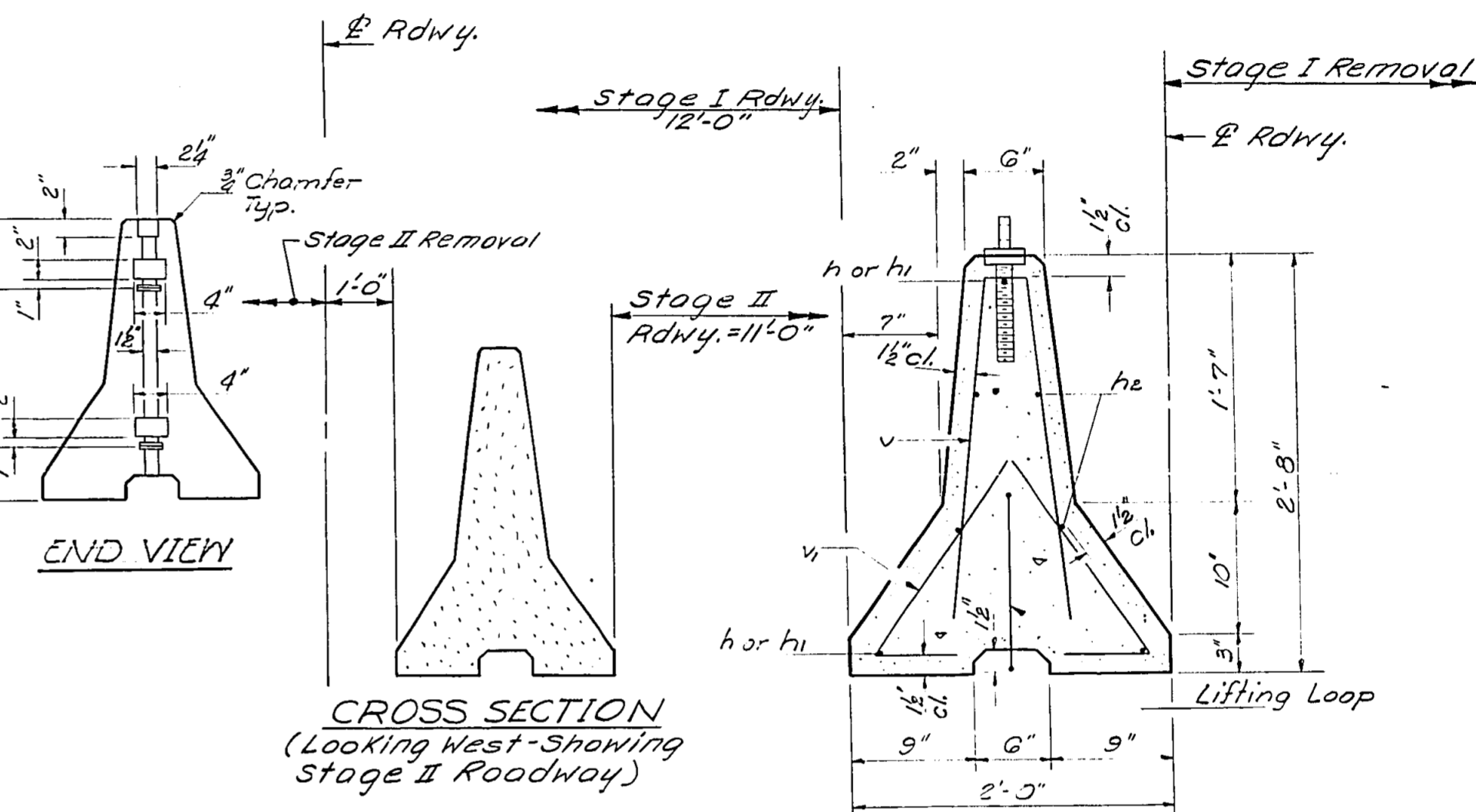
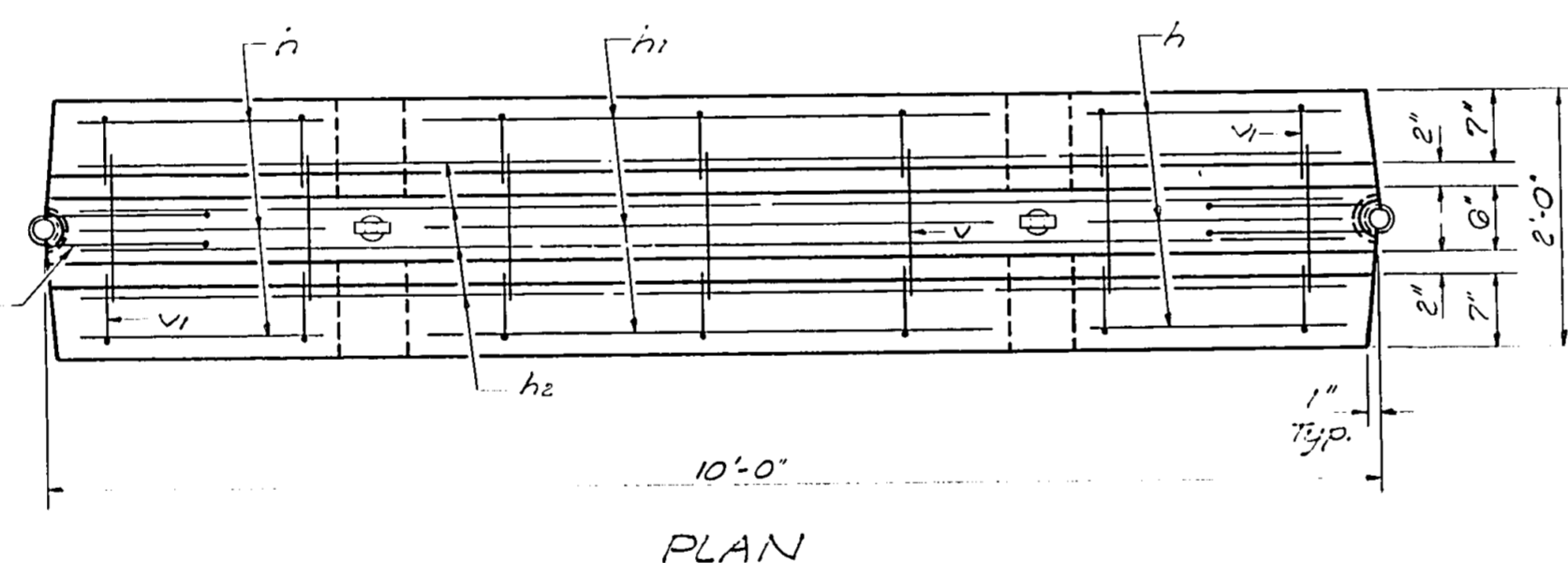
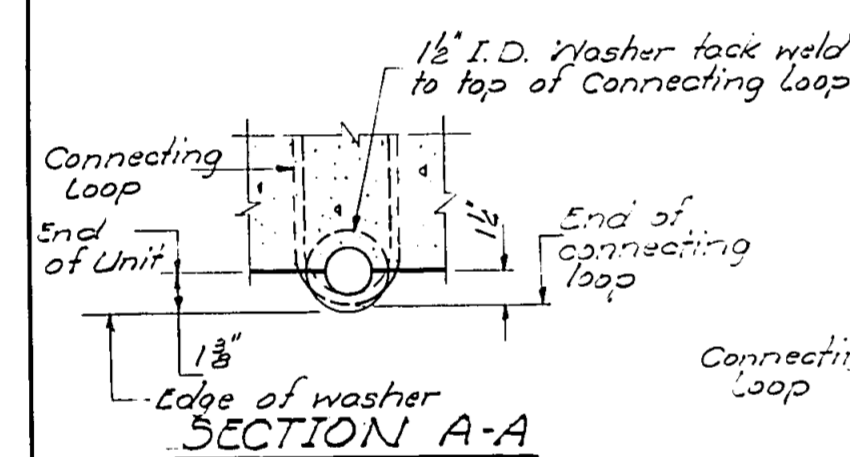
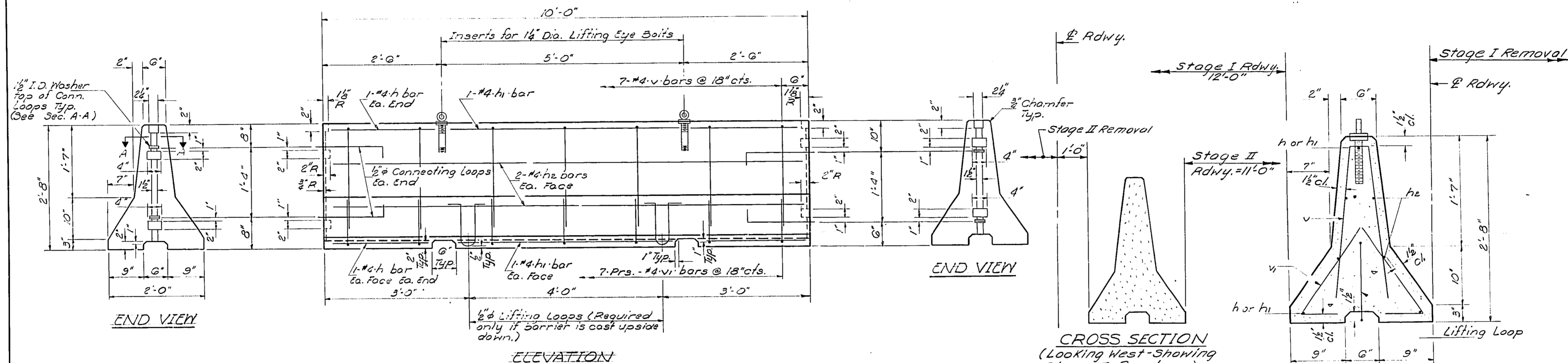
EXAMINED *Carl E. Thompson Jr.*
PASSED
APPROVED



FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	12B-2	JACKSON	27	19
SHEET NO. 2 4 SHEETS				



ONE UNIT - BAR LIST

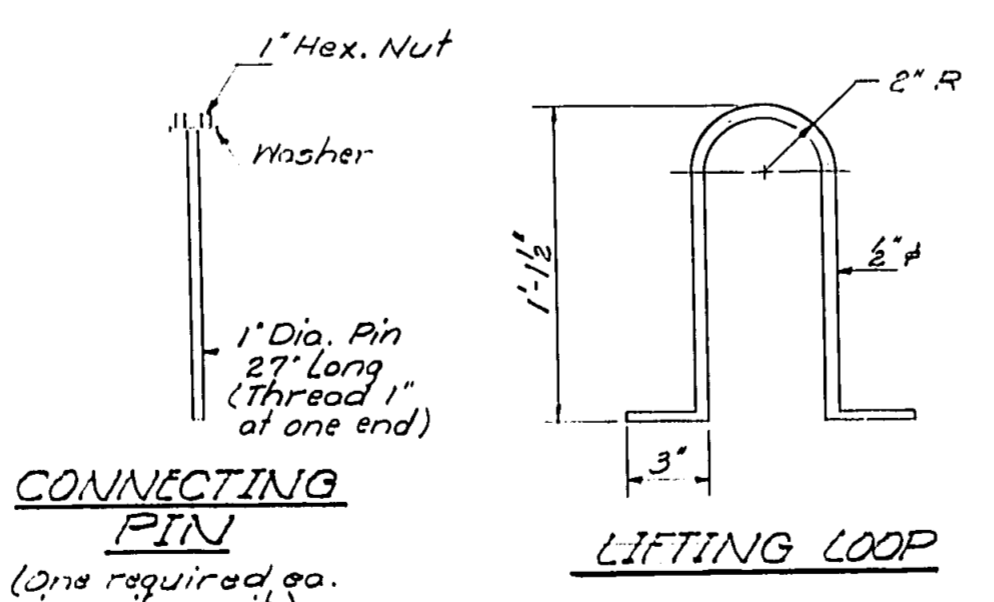
Bar	No.	Size	Length	Shape
h	6	#4	2'-0"	—
h1	3	#4	4'-3"	—
h2	4	#4	9'-6"	—
v	7	#4	4'-9"	—
v1	14	#4	2'-0"	J

Notes:
 All lifting eye bolts and inserts, connecting pins, and connecting loops shall be galvanized in accordance with A.S.T.M. specification M-116.
 All connecting pins, lifting eye bolts and inserts, and reinforcement bars and accessories cast into the barrier shall be included in the contract unit bid price for "Movable" Double Concrete Barrier.

DESIGN STRESSES
 f'c = 3500 psi
 fy = 40,000 psi

BILL OF MATERIAL

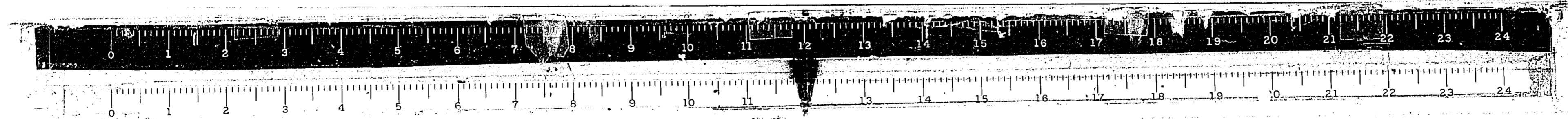
ITEM	Unit	Quantity
Movable Double Concrete Barrier	Lin. Ft.	500



STAGE CONSTRUCTION
 Movable Double Concrete Barrier shall be placed the total length of the bridge and extend a min. of 20 ft. beyond the approaching traffic end of the bridge. The 20 ft. extension shall be tapered to the shoulder edge of the lane to be closed for Stage Construction.

MOVABLE DOUBLE CONCRETE BARRIER
 F.A. RT. 107 OVER BIG MUDDY SEC. 121BJ-2
 JACKSON COUNTY
 STA. 340+95.00

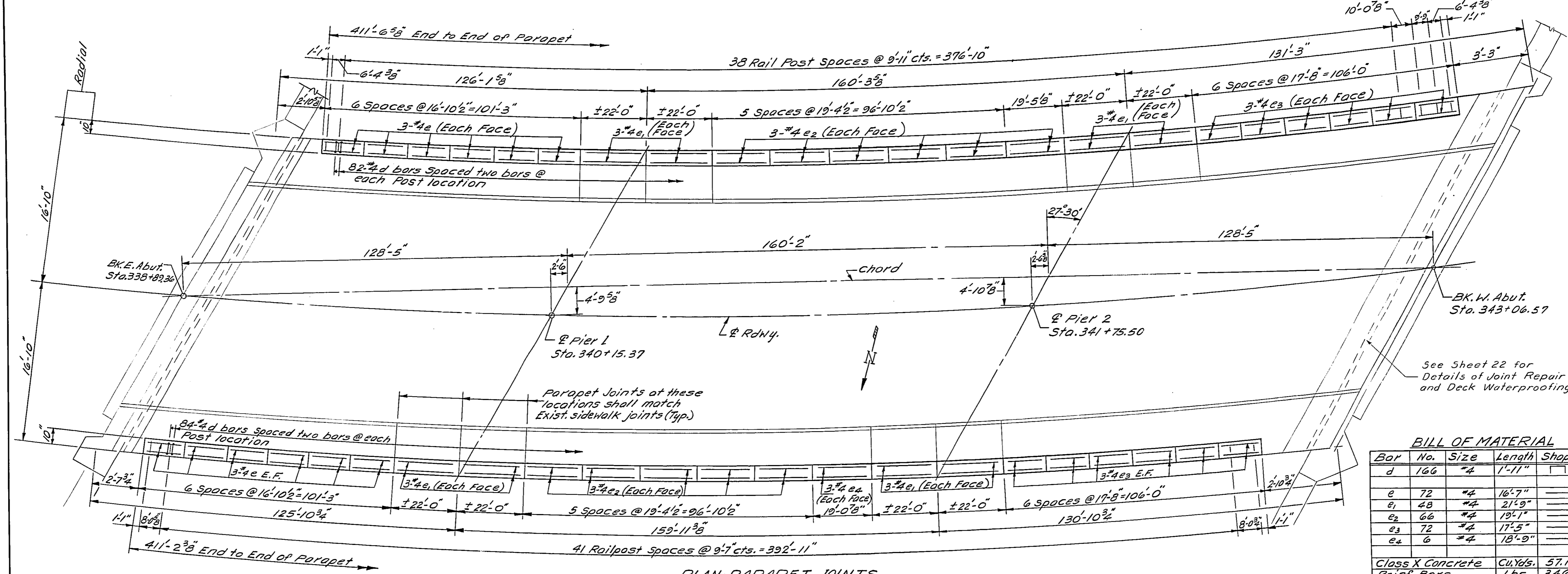
DESIGNED: *William J. ...*
 CHECKED: *David ...*
 DRAWN: *...*
 EXAMINED: *Don. 18 1977*
 APPROVED: *...*



FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
P.A. 107	12-1B J-2	JACKSON	27	20	4 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



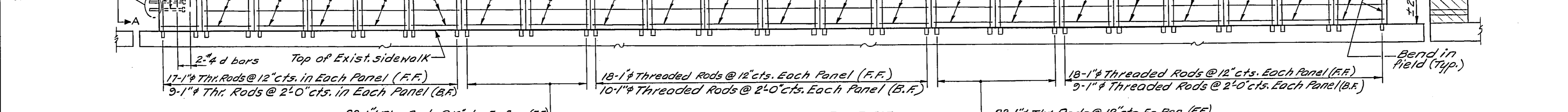
PLAN-PARAPET JOINTS AND RAIL POSTS
(All dimensions along inside face of parapet)

BILL OF MATERIAL

Bar No.	Size	Length	Shape
d	106	#4	1'-11"
e	72	#4	16'-7"
e1	48	#4	21'-9"
e2	66	#4	19'-7"
e3	72	#4	17'-5"
e4	6	#4	18'-9"
Class X Concrete			Cu.Yds. 57.1
Reinf. Bars			Lbs. 3460
Threaded Rods			Each 1236

1" Anchor Bolts cast to be incidental to Class X concrete (West ends only)

See Std. 2340 Type 5



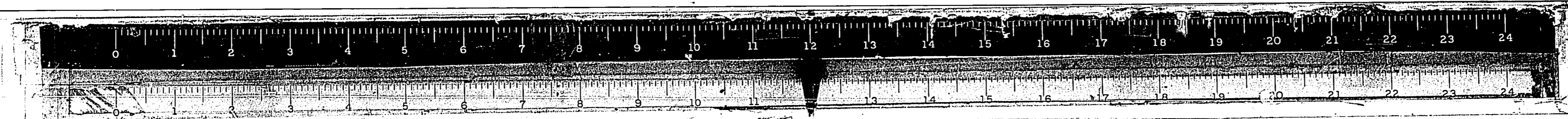
ELEVATION OF NEW PARAPET
(Showing Inside Face)

PARAPET DETAILS
(F.A. RT. 107) OVER BIG MUDDY
SEC. 12-1B J-2
JACKSON COUNTY
STA. 340+95.00

DESIGNED *W. M. Thompson*
CHECKED *Stan. Liblitz*
DRAWN *E.L.*
CHECKED *D.S.G.*

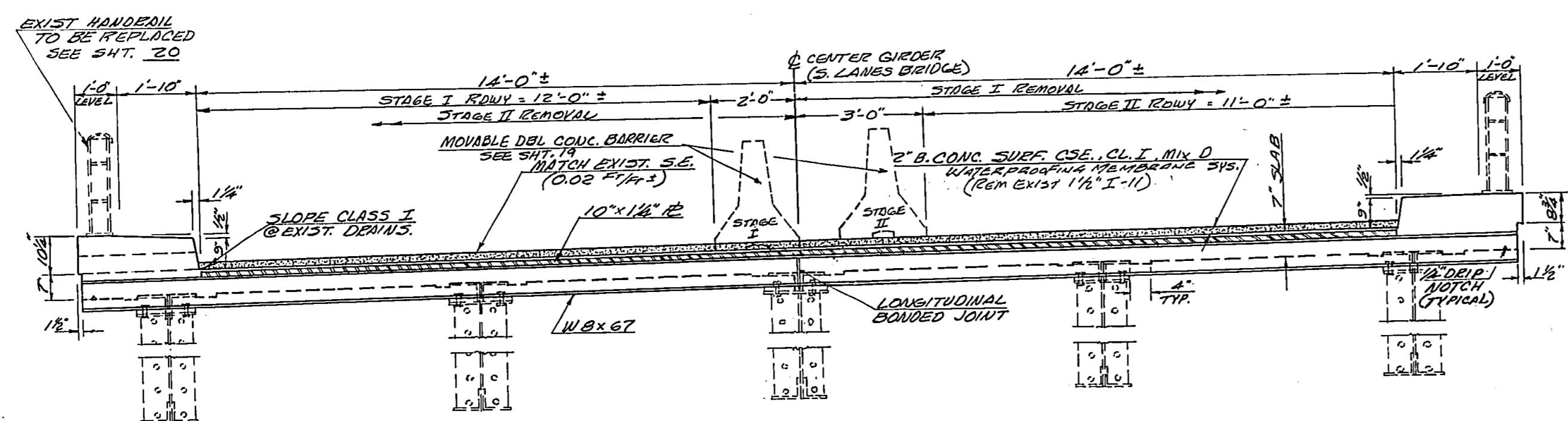
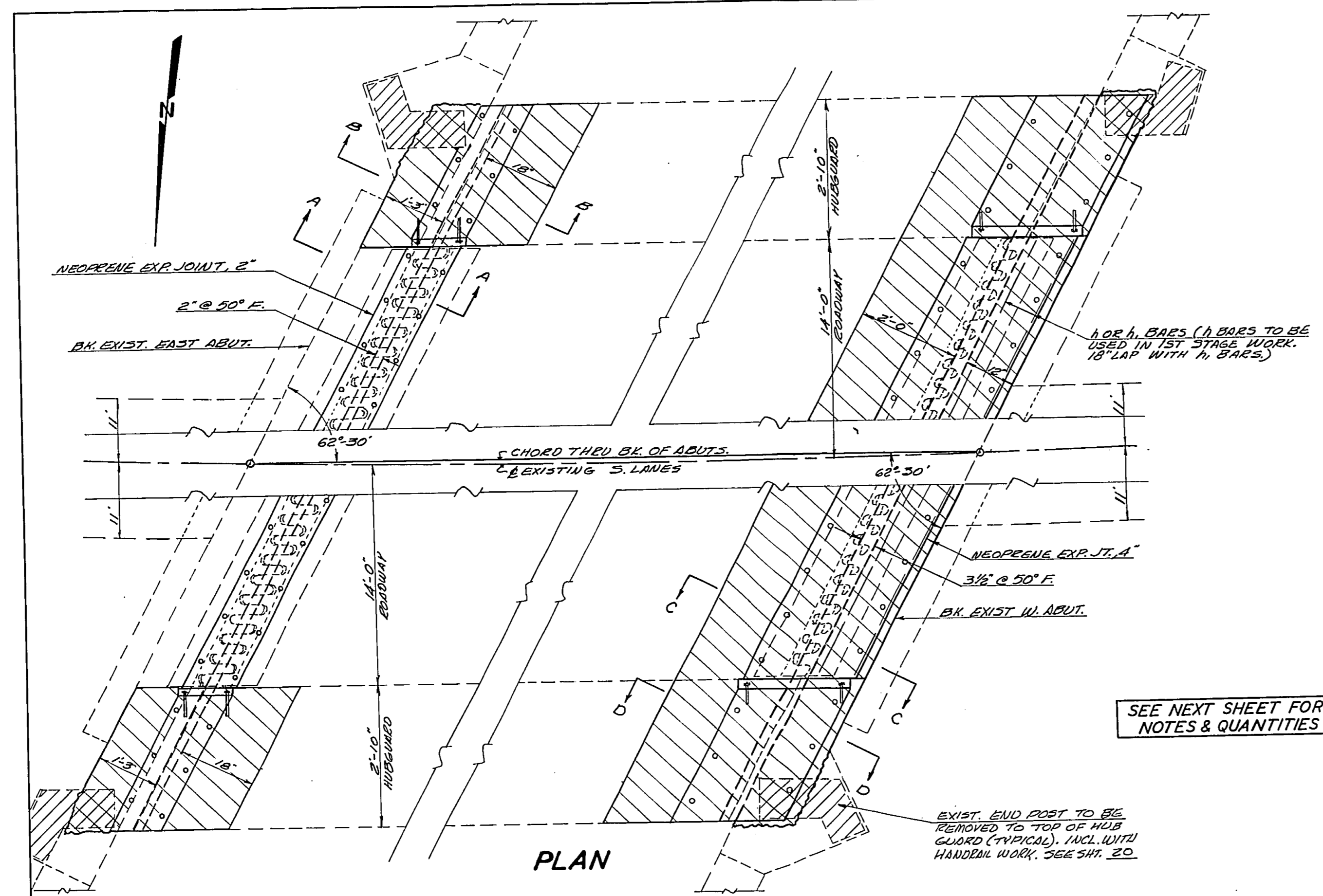
EXAMINED *Carl E. Thompson*
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

Note:
See Sht. #4 for View A-A

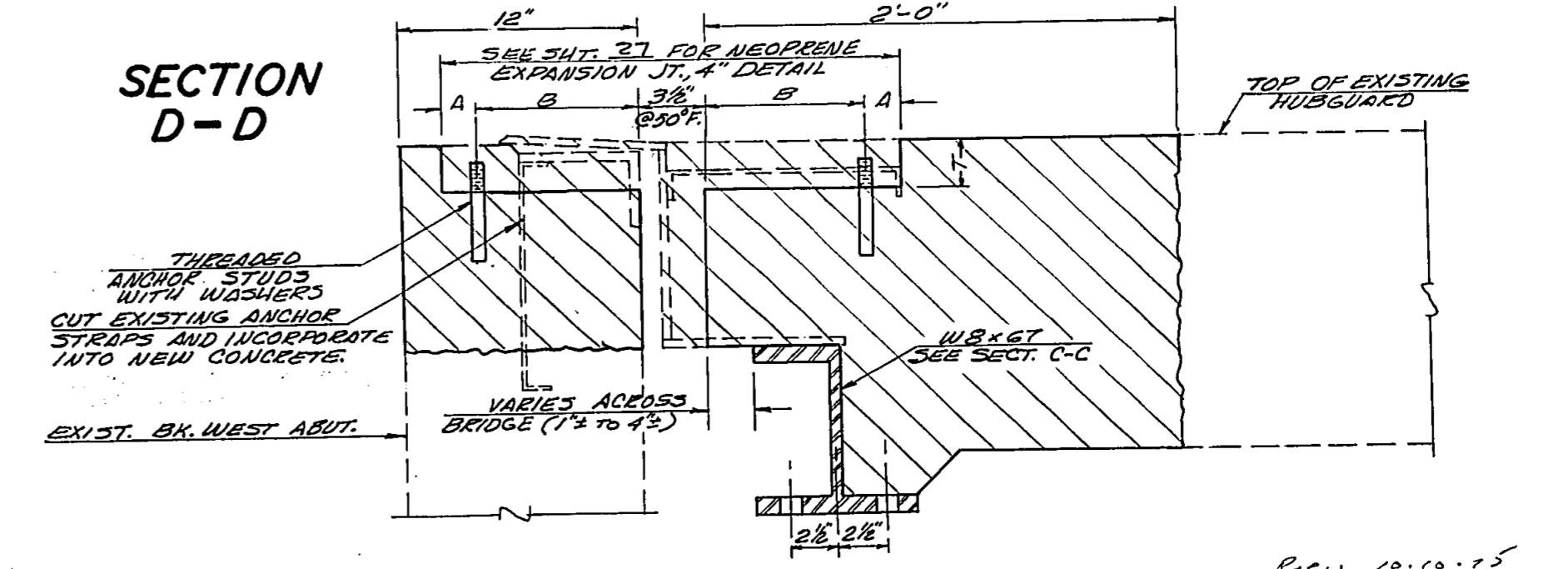
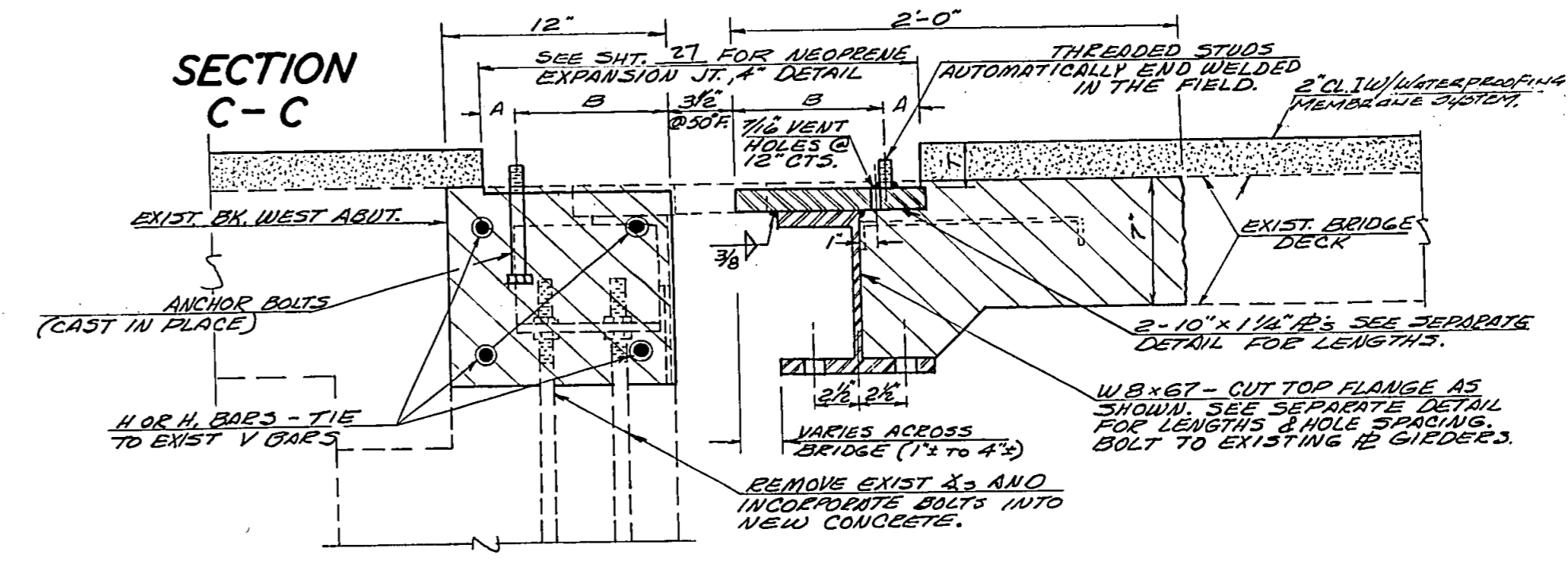
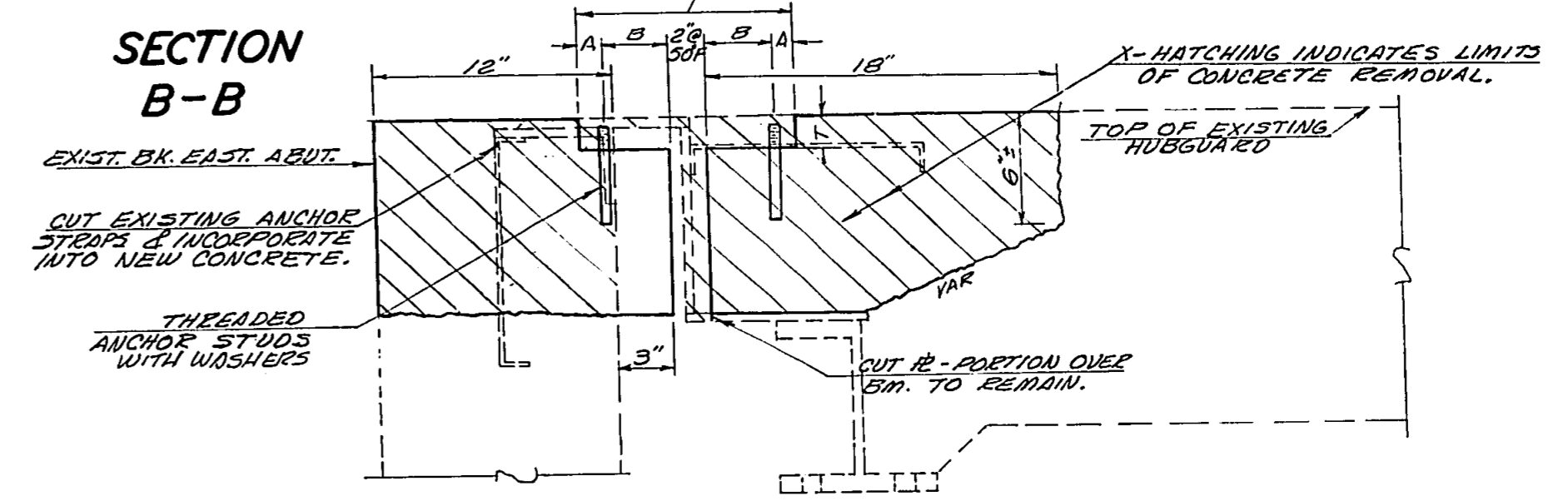
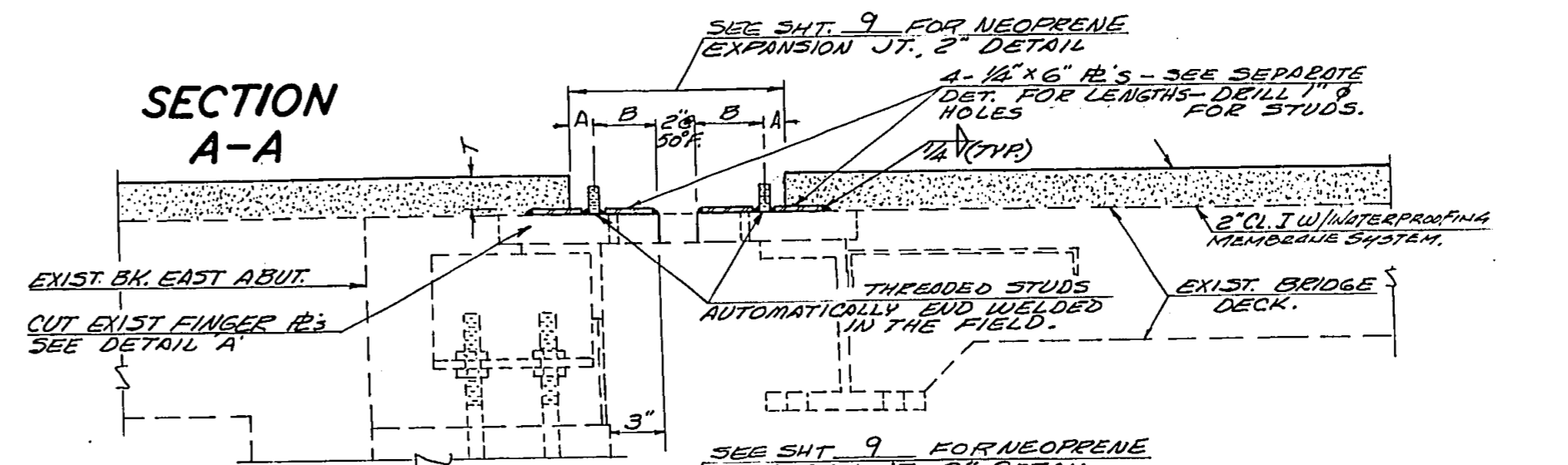


FOR INFORMATION ONLY

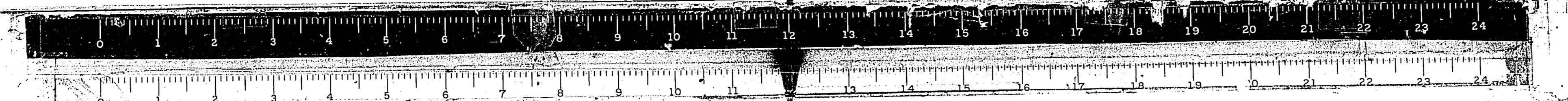
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.107	#	JACKSON	27	22
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	



TYPICAL CROSS SECTION
WEST END
(EAST END SIMILAR)
LOOKING WEST



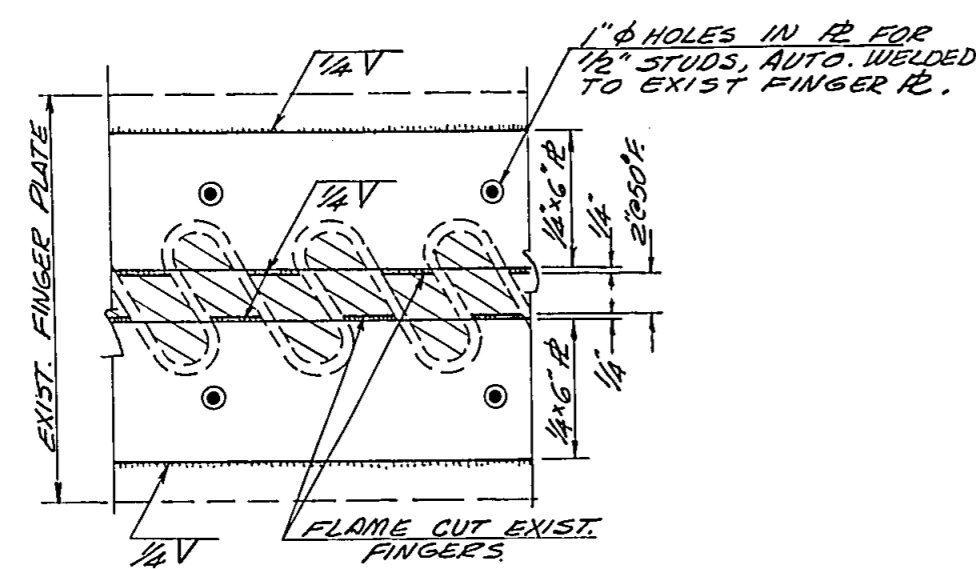
SEE NEXT SHEET FOR NOTES & QUANTITIES



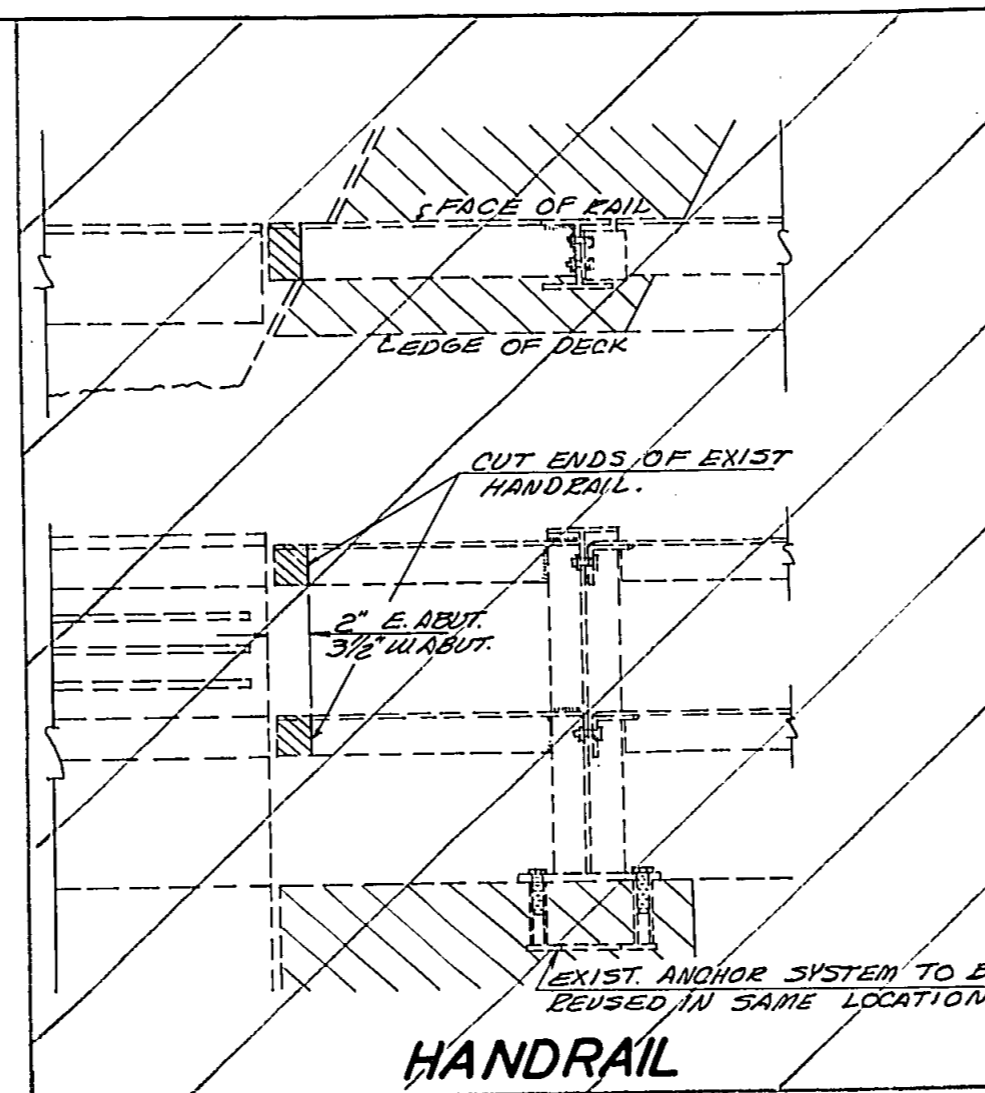
BAD COPY

FOR INFORMATION ONLY

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA.107	12	JACKSON	27	23
FED. ROAD DIST. NO. 7	ILLINOIS		PROJECT	
* 12-18J-2				



DETAIL A



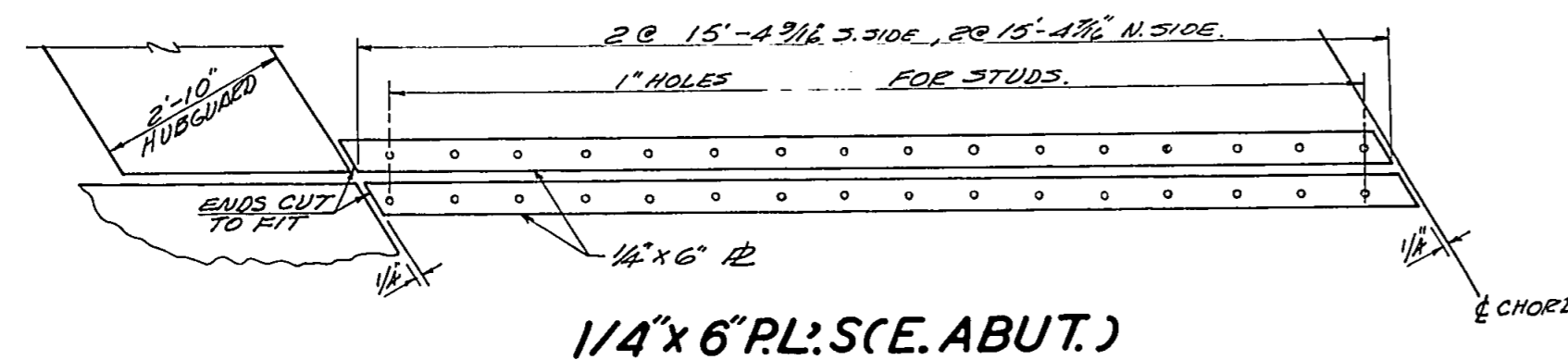
NOTES

CLASS-X-CONCRETE SHALL BE USED THROUGHOUT.
 ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS.
 EXPOSED EDGES SHALL BE BEVELED 3/4"
 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
 CLEAN AND STRAIGHTEN EXISTING DECK REINFORCEMENT BARS AND INCORPORATE INTO NEW CONCRETE. CUT ENDS AS REQUIRED TO OBTAIN 1/2" CLEARANCE AT ENDS. ANY BREAKEN OR DETERIORATED STEEL SHALL BE REPLACED. (ESTIMATED QUANTITY 200 LBS.)
 THE OUTSIDE FACES OF ALL NEW STRUCTURAL STEEL AND ANY SURFACES OF EXISTING STEEL DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE GIVEN ONE COAT OF RED LEAD PAINT AND TWO COATS OF ALUMINUM PAINT.
 USE STAGE CONSTRUCTION TO KEEP AT LEAST ONE LANE OPEN TO TRAFFIC AT ALL TIMES.

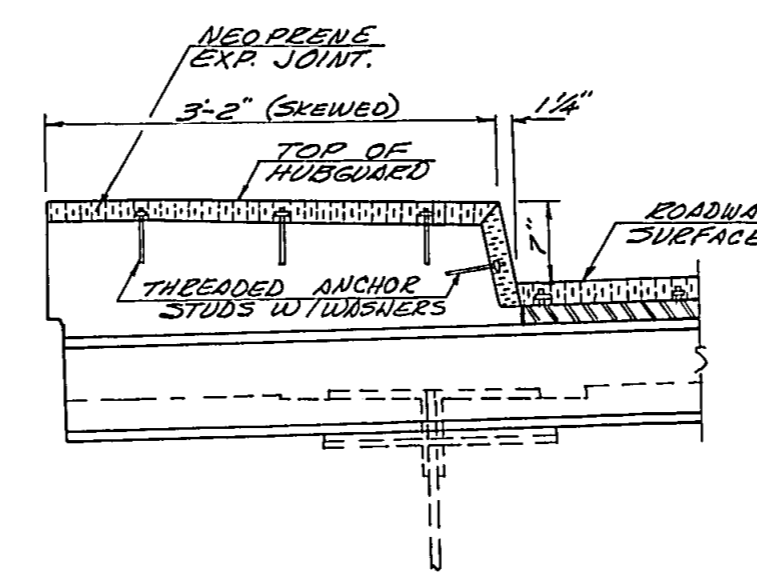
BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH
h	4	#6	17'-0"
h	4	#6	15'-6"
CLASS-X-CONCRETE	CU. YDS.		3.3
REINFORCEMENT BARS	LBS.		400
STRUCTURAL STEEL	LBS.		3830
CONCRETE REMOVAL	CU. YDS.		3.4
NEOPRENE EXP. JT. 2"	LIN. FT.		40
NEOPRENE EXP. JT. 4"	LIN. FT.		40
W-PROOF. MEMB. SYSTEM	SQ. YD.		1300
* BIT. CONC. SURF. REML	TONS		108
* BIT CONC. SURF. REMOVAL	50 YDS		1300

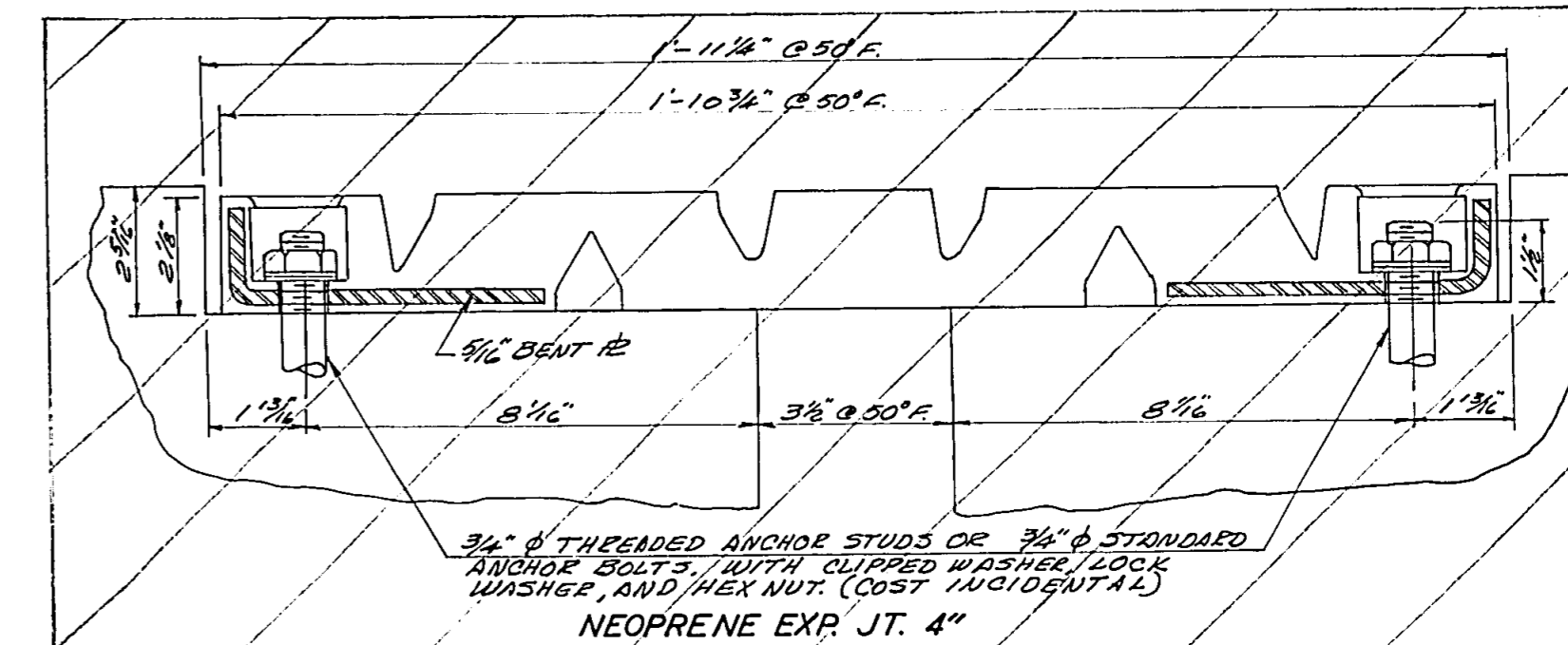
* ON BRIDGE DECK ONLY



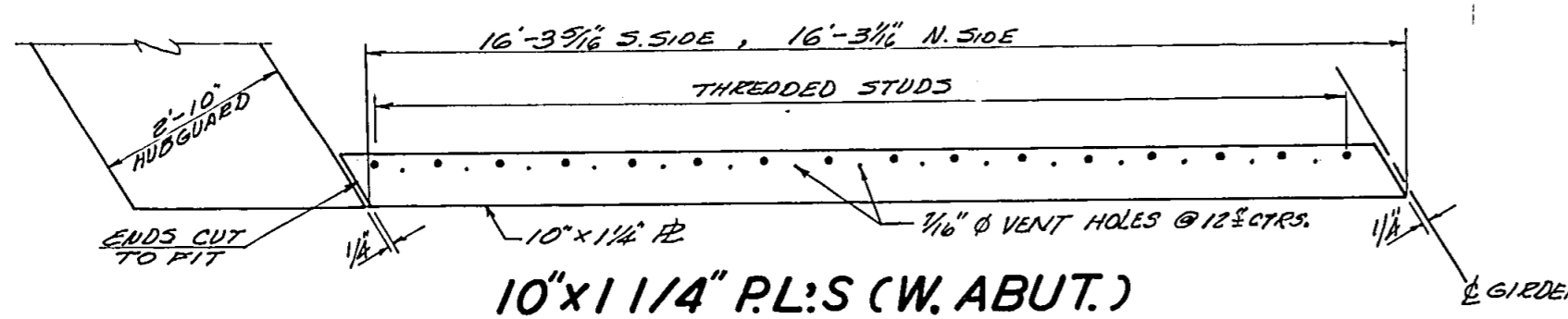
1/4" x 6" PL: S (E. ABUT.)



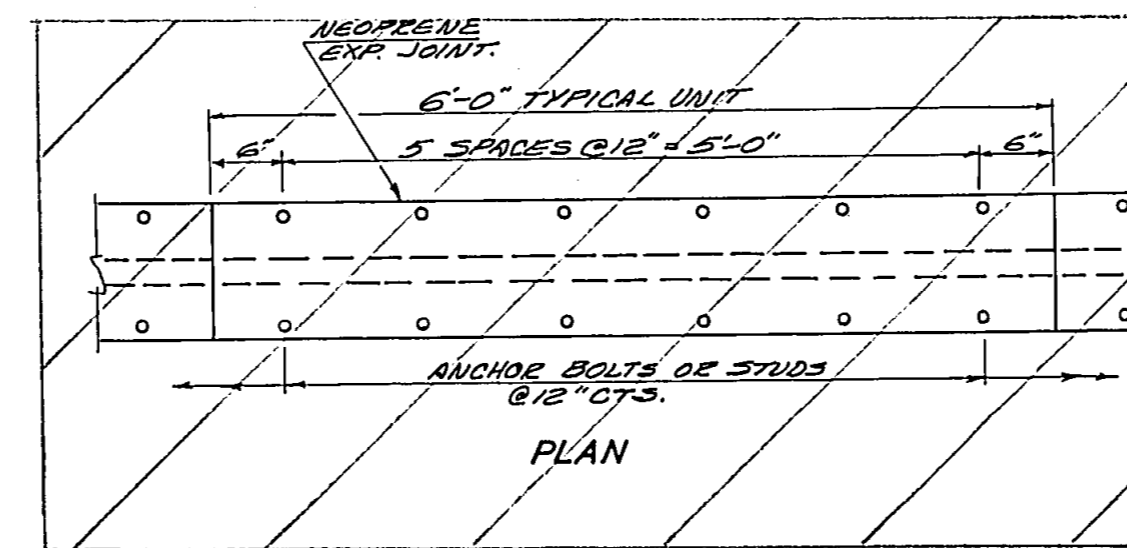
CURB INSTALLATION



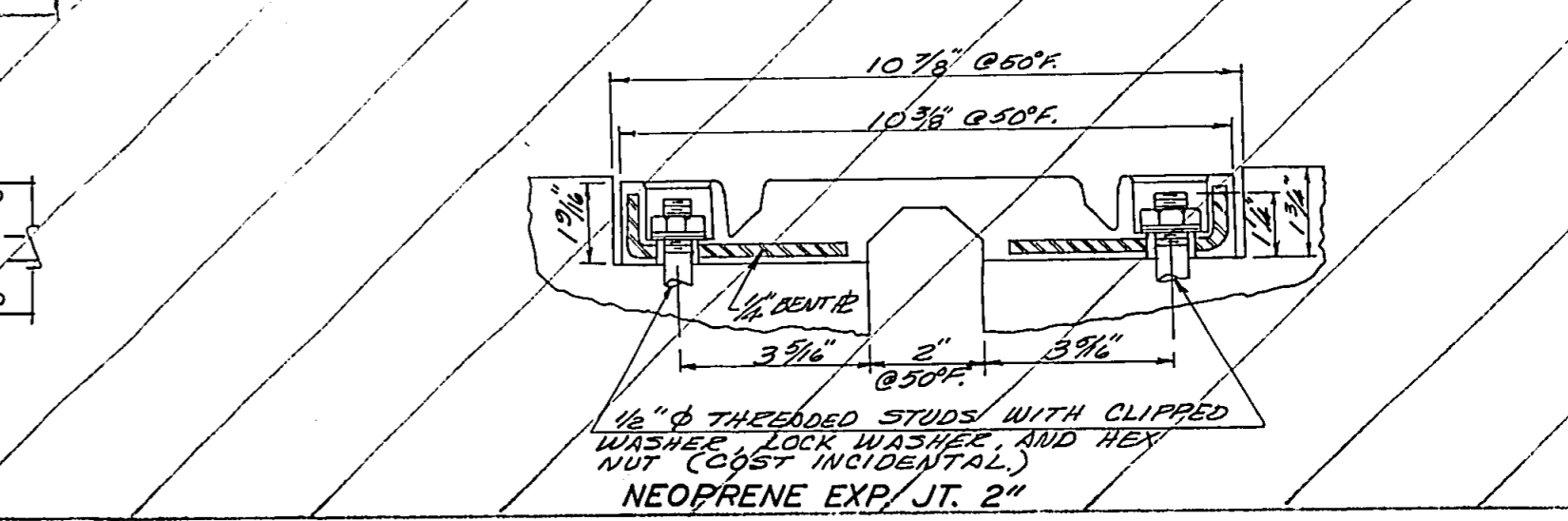
NEOPRENE EXP. JT. 4"



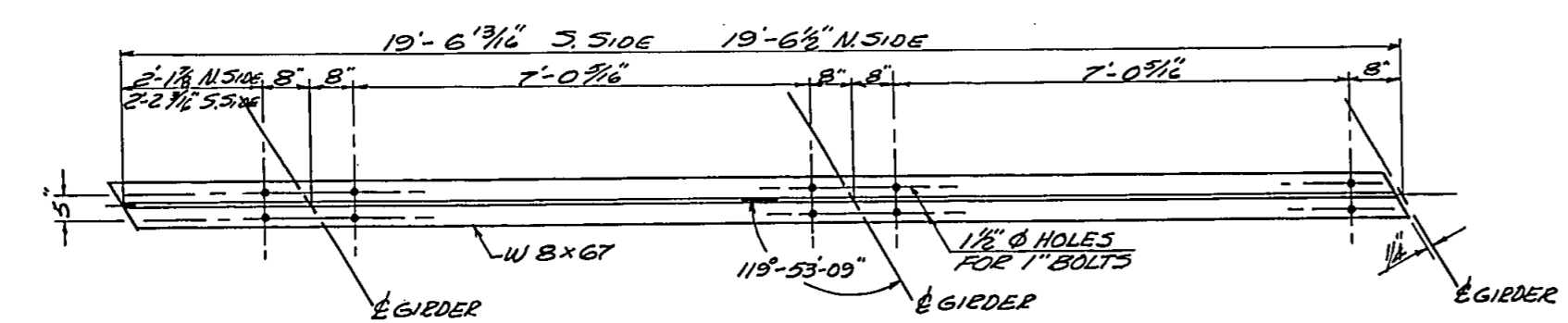
10" x 1 1/4" PL: S (W. ABUT.)



PLAN

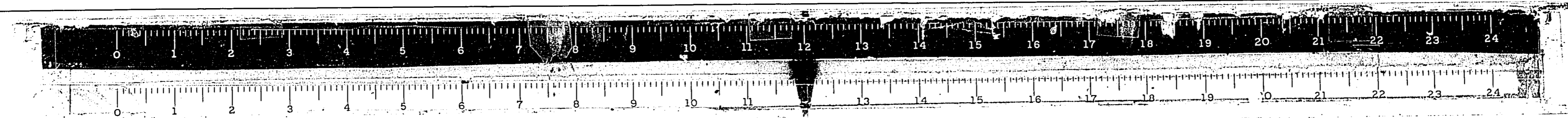


NEOPRENE EXP. JT. 2"



W8 x 67 (W. ABUT.)

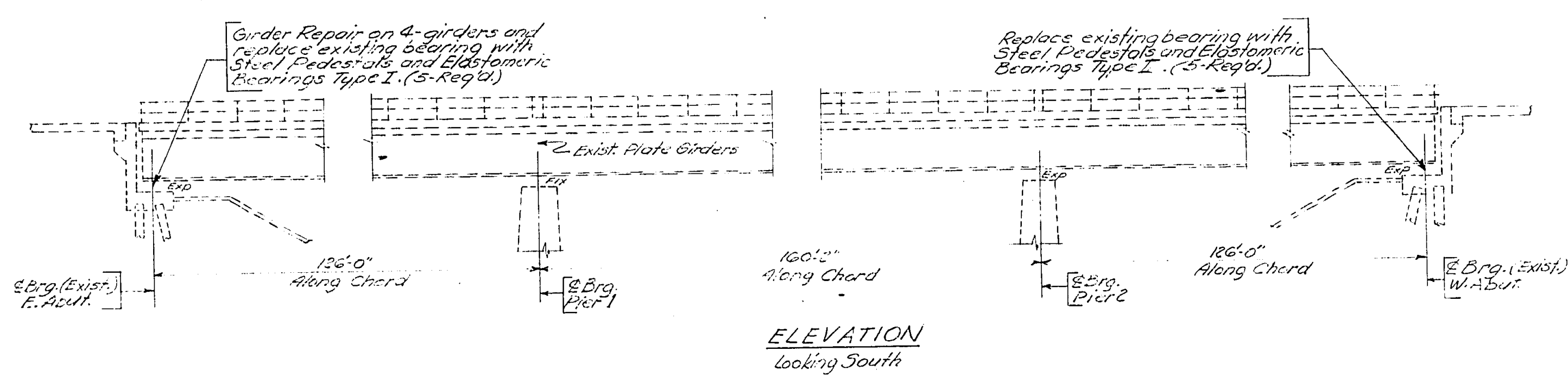
NEOPRENE EXPANSION JOINTS
 SEE SHEETS 9 AND 27



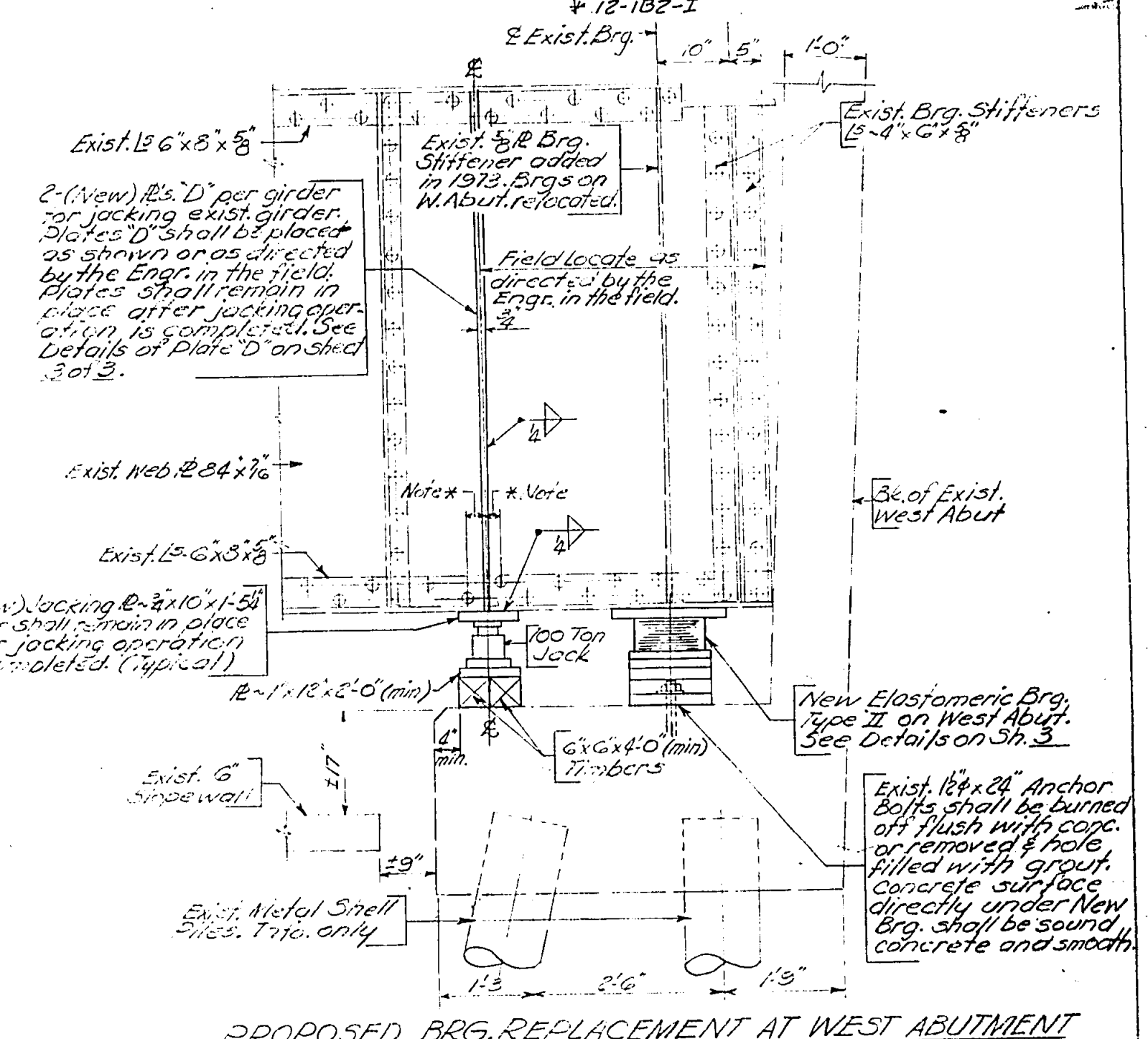
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

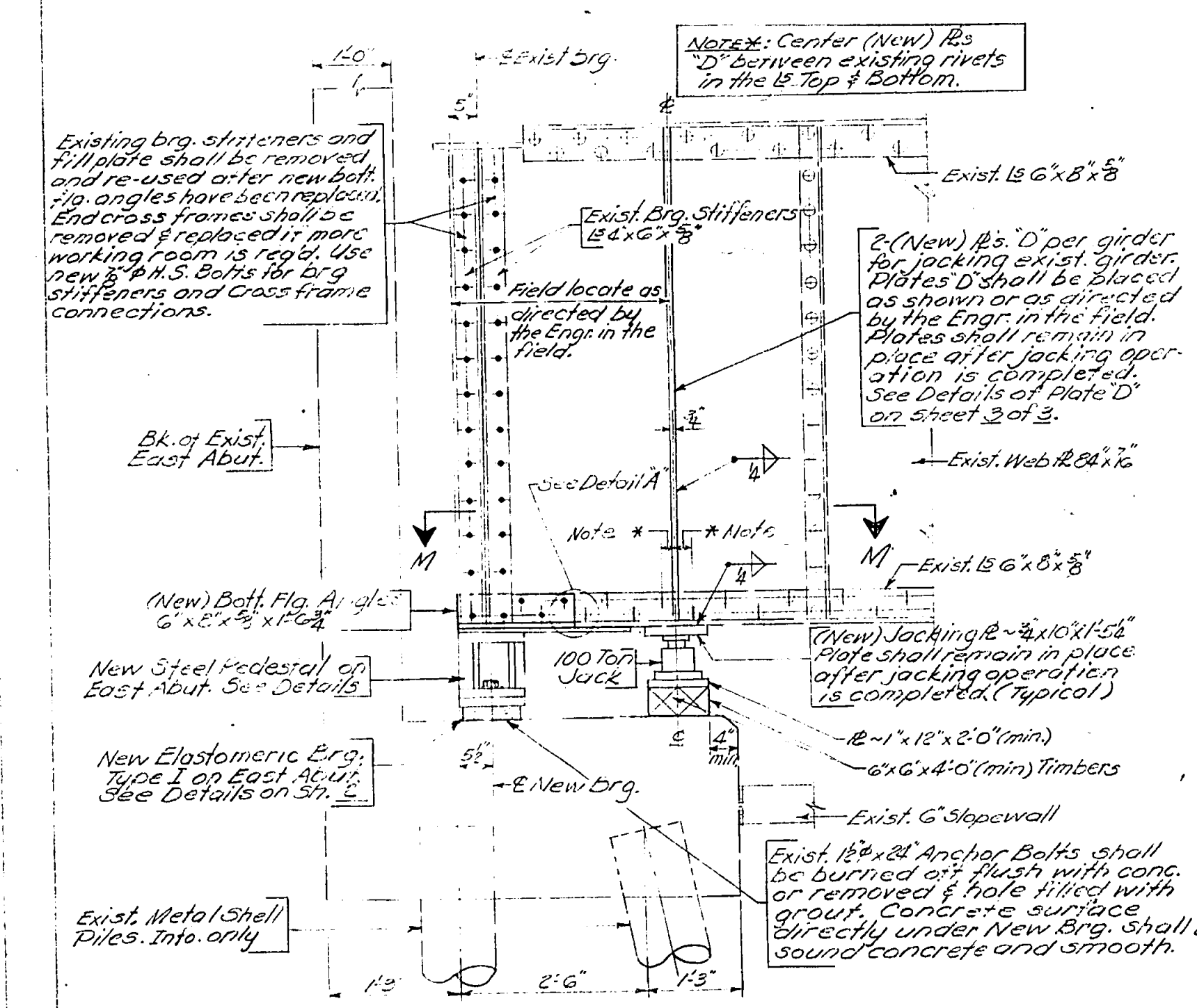
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. /
107	*	JACKSON	24	24	3 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	PER. AND PROJECT		
* 12-1B2-1					



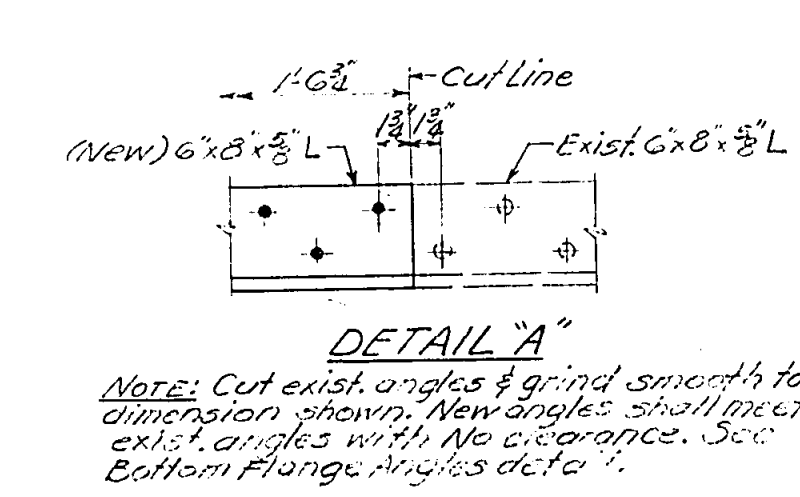
ELEVATION
looking South



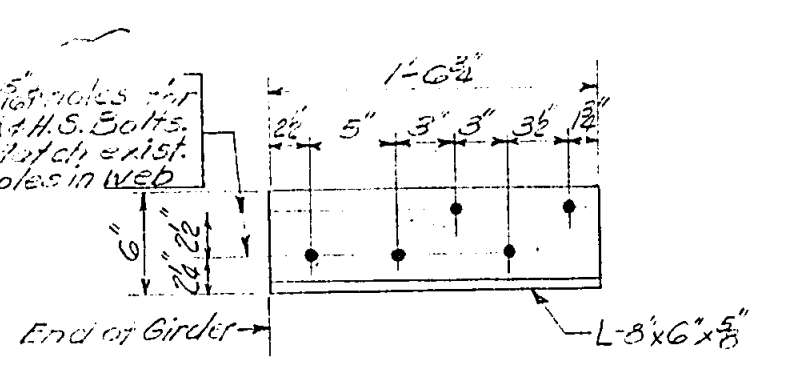
PROPOSED BRG. REPLACEMENT AT WEST ABUTMENT



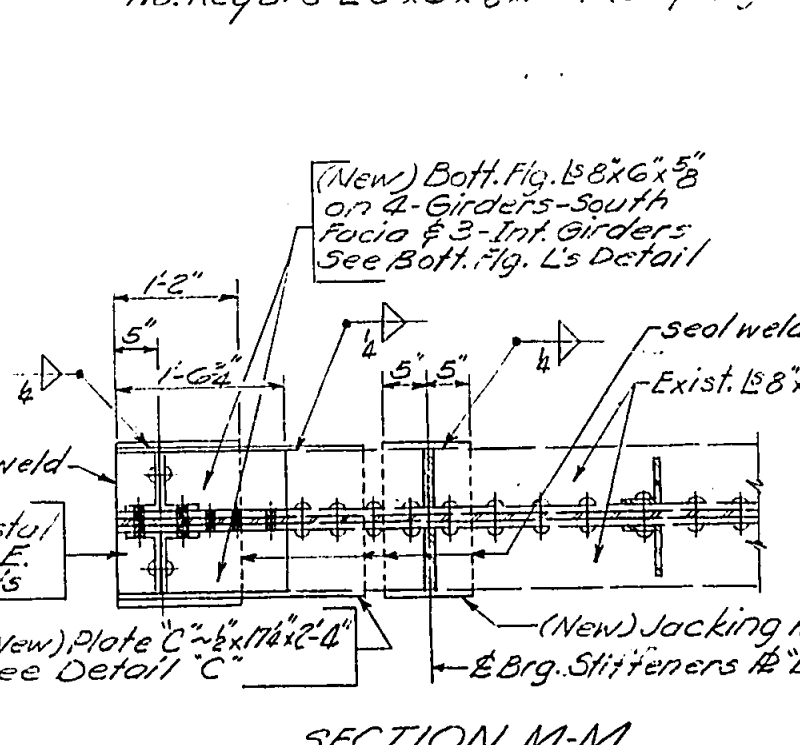
PROPOSED GIRDER REPAIR & BRG. REPLACEMENT
AT EAST ABUTMENT



DETAIL A



BOTTOM FLANGE ANGLES



SECTION M-M

GENERAL NOTES

All new structural steel shall conform to ASTM Classification A-36.

All new high strength bolts shall be ASTM Classification A-325.

The Contractor will make the repairs shown on the plans has the option of raising the girders by the suggested method shown on the plans or submitting his suggestion for approval of the Engineer.

All new structural steel shall receive one (1) shop coat of red lead paint and two (2) field coats of paint to match the existing color. Any areas where repairs are being made and the existing paint is damaged, these areas shall be cut painted with red lead paint and two (2) field coats of paint to match existing color.

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

Traffic Control shall be determined by the District Office and the Contractor.

Original Design Plans and Fabrication Plans were used in preparing these plans.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Jacking & Shoring Existing Girder	Each	10
Girder End Repair	Each	4
Elastomeric Bearings	Each	10
Steel Pedestal	Each	10

GIRDER REPAIRS & BRG. REPLACEMENT
BIG MUDDY RIVER
FA. RT. 107 SEC. 12-1B-2-1
JACKSON COUNTY
STA. 340+95 (1)

DESIGNED TES
CHECKED ENR
DRAWN E.N.R.
CHECKED

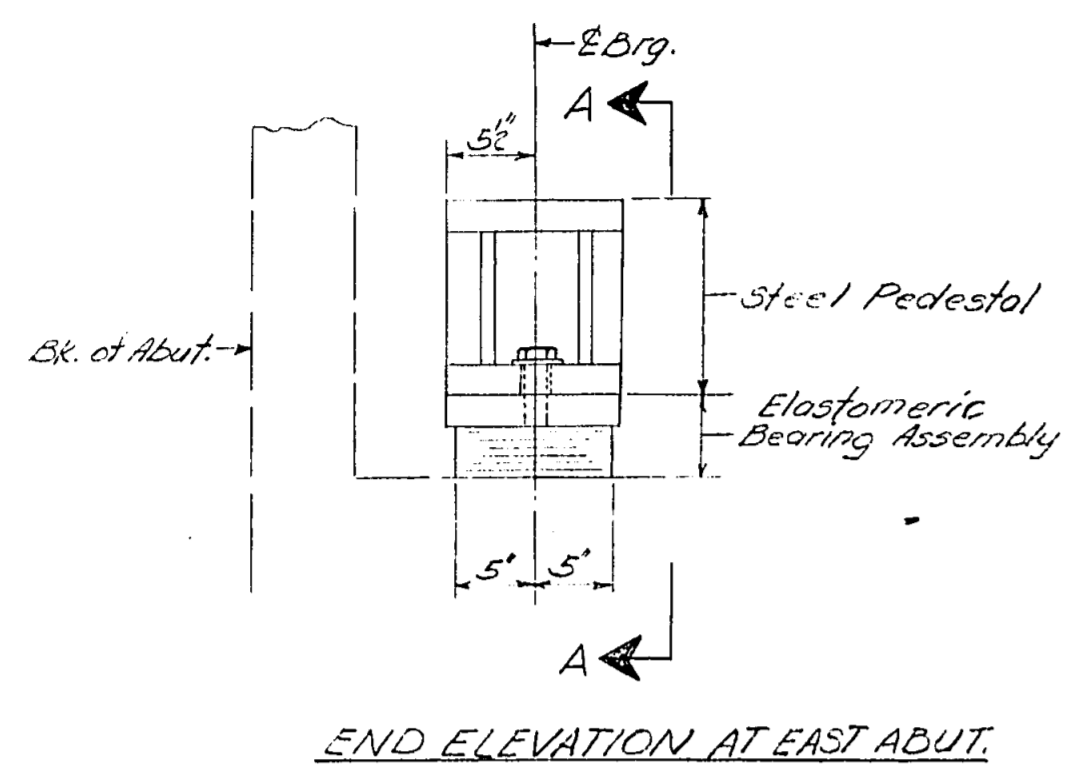
SEPTEMBER 16 1971
EXAMINED
PASSED
APPROVED

Bridge No. 039-0013

FOR INFORMATION ONLY

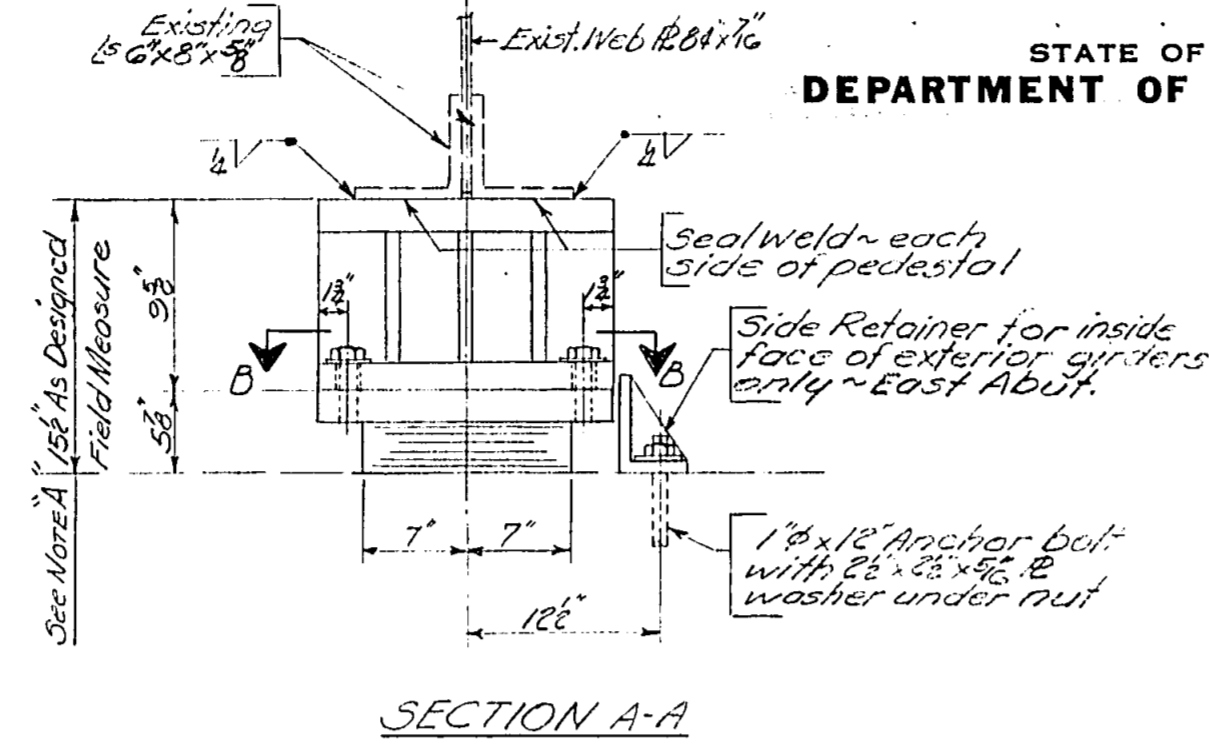
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET
107	*	JACKSON	27	25	3 SHEETS
ILLINOIS PER. AID PROJECT					
* 12-18-2-I					

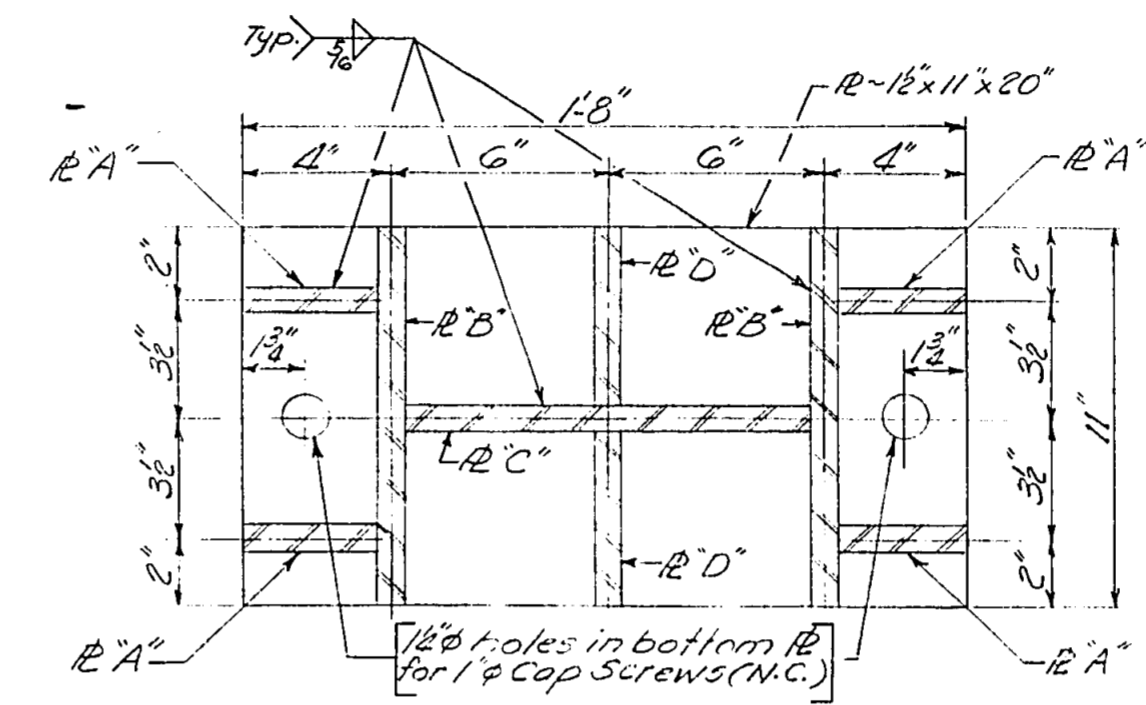


END ELEVATION AT EAST ABUT.

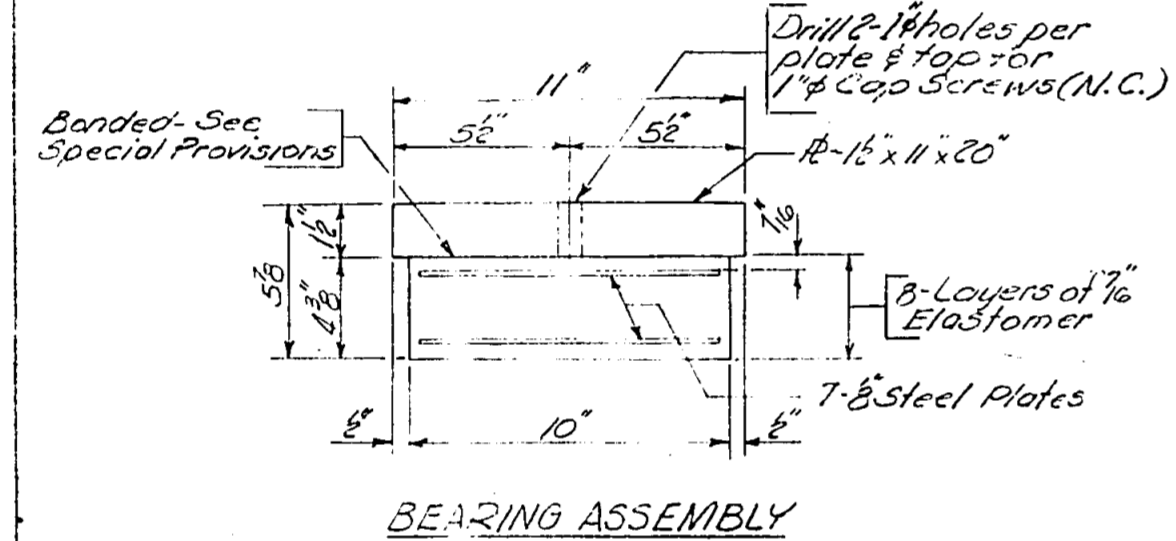
TYPE I ELASTOMERIC EXP BRG.
(No. Req'd. = 5 ~ East Abutment)



SECTION A-A



SECTION B-B
(See Sec. A-A on this Sh.)



BEARING ASSEMBLY

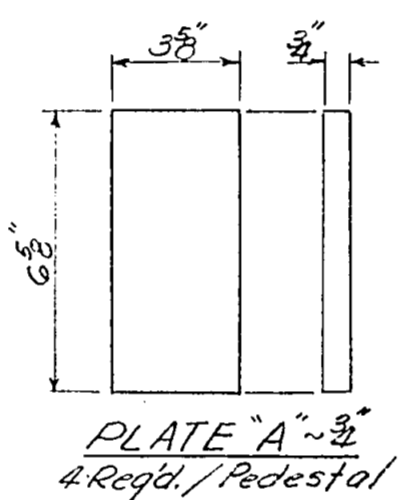


PLATE A ~ 3/8"
4 Req'd. / Pedestal

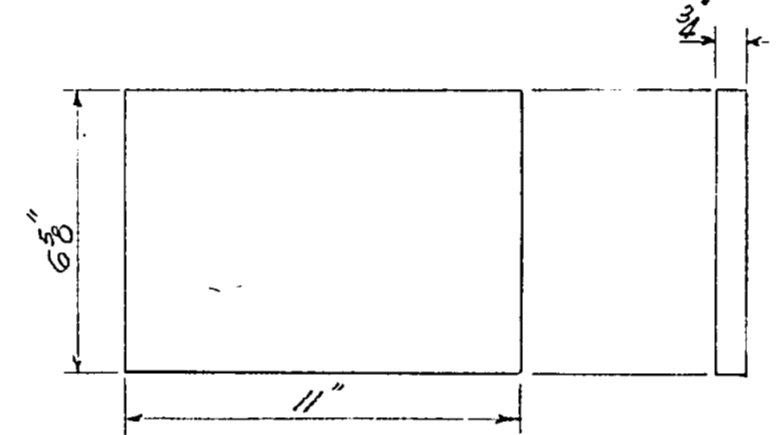


PLATE B ~ 3/8"
2 Req'd. / Pedestal

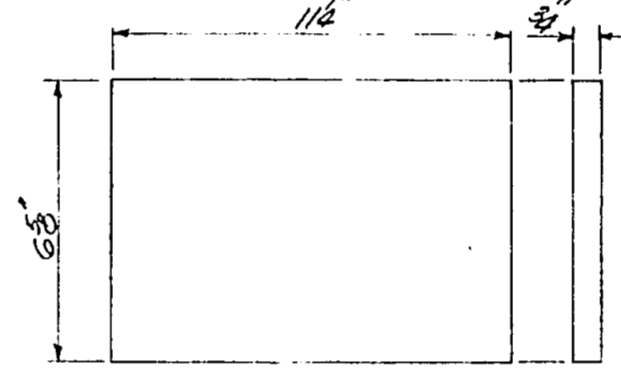
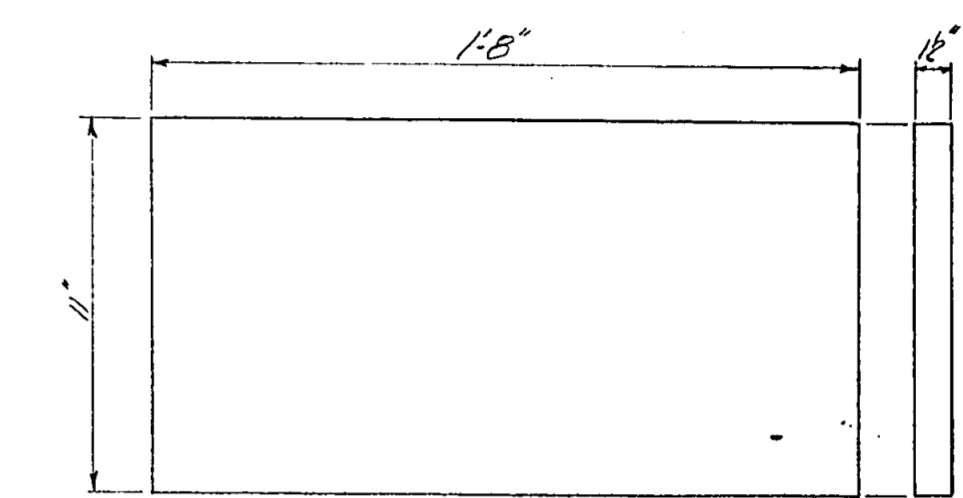
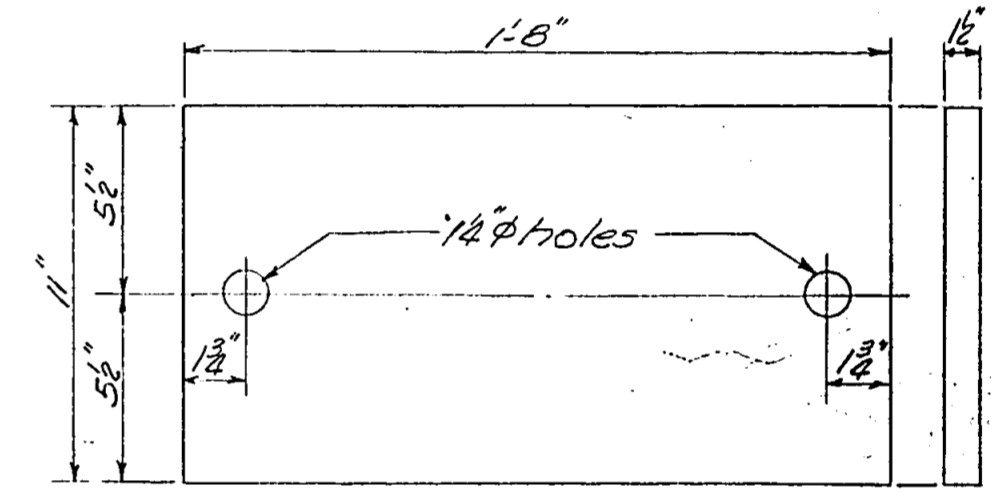


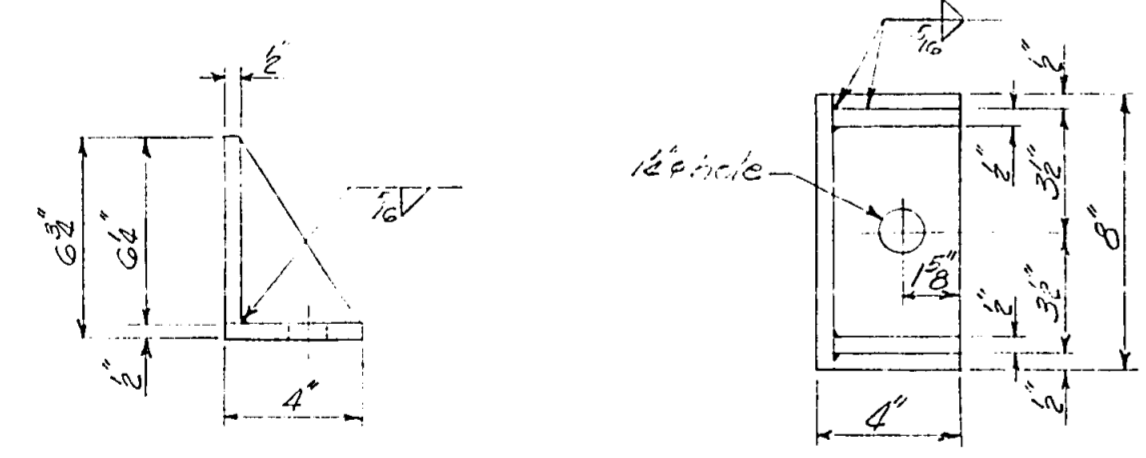
PLATE C ~ 3/8"
1 Req'd. / Pedestal



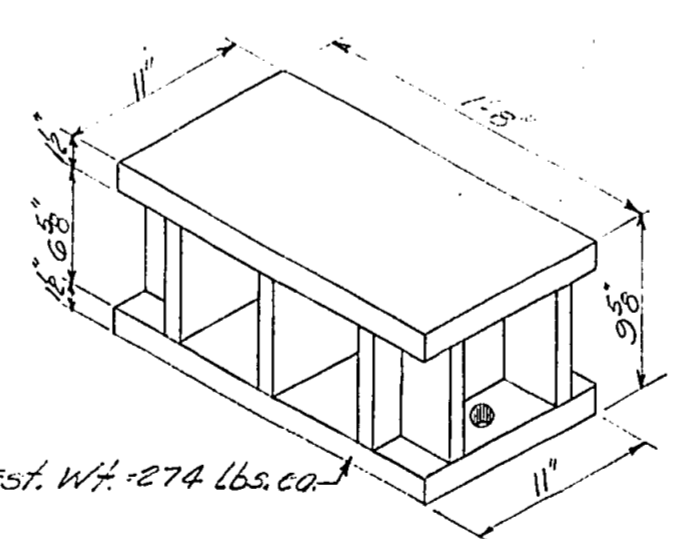
1/2" TOP PLATE
1 Req'd. / Pedestal



1/2" BOTTOM PLATE
1 Req'd. / Pedestal



SIDE RETAINER



NEW STEEL PEDESTAL
No. Req'd. = 5 (East Abut.)

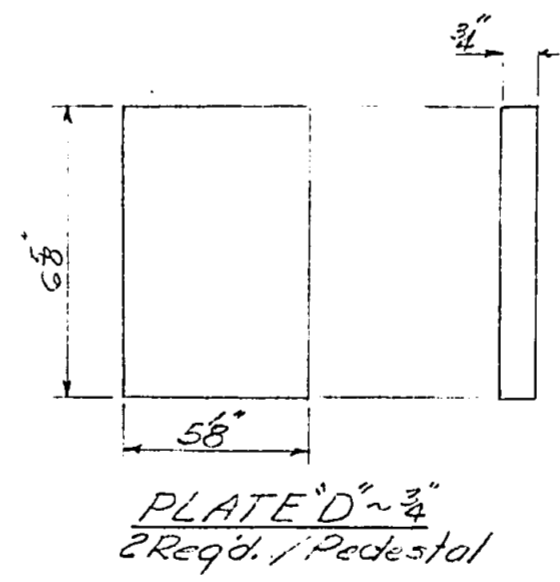


PLATE D ~ 3/8"
2 Req'd. / Pedestal

MATERIAL LIST ~ STEEL PEDESTAL - EAST ABUT.

Item	No.	Size	Est. Wt.
Pedestal Top Plate	5	12-1/2 x 11 x 20"	476
" Bottom Plate	5	12-1/2 x 11 x 20"	476
" Plate A	20	12-1/2 x 3 3/8 x 6 3/8"	104
" " B	10	12-1/2 x 6 3/8 x 11"	158
" " C	5	12-1/2 x 6 3/8 x 11 1/2"	81
" " D	10	12-1/2 x 5 1/2 x 6 3/8"	74

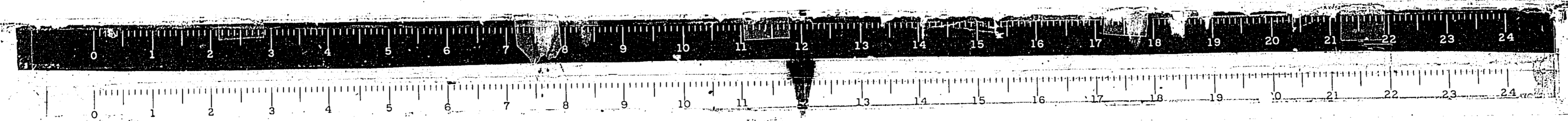
Total Calculated Wt. of 5 Steel Pedestals = 1,369 lbs.

DESIGNED	TES
CHECKED	ENR
DRAWN	ENR
CHECKED	

EXAMINED	SEPT. 16 1977
PASSED	
APPROVED	

NOTE: Before fabricating the Elastomeric Brgs. and the Steel Pedestals the Contractor shall field check the Vert. height in the bearing area on the abutment to establish the correct dimension for the height of the new bearings and steel pedestals.

EAST ABUTMENT
ELASTOMERIC BRG. TYPE I & STEEL PEDESTAL
FA. RT. 107 SEC. 12-18-2-I
JACKSON COUNTY
STA. 340+95(1)

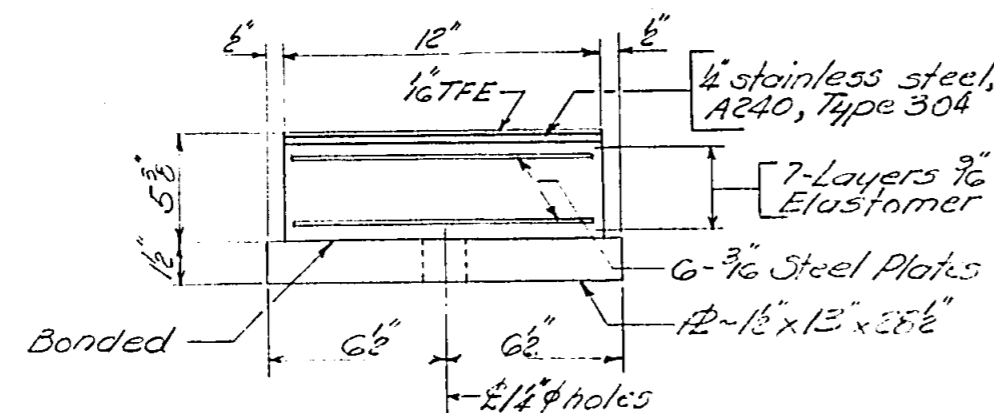
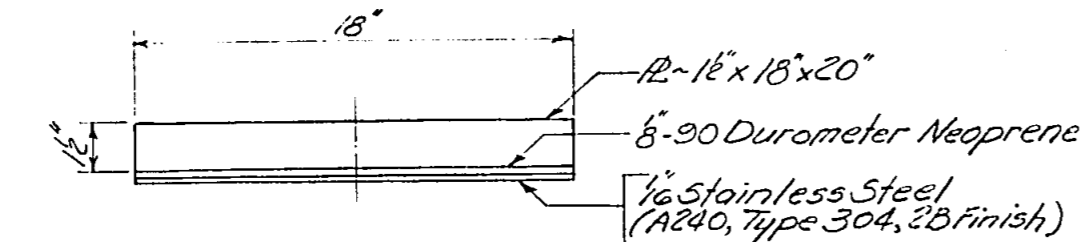
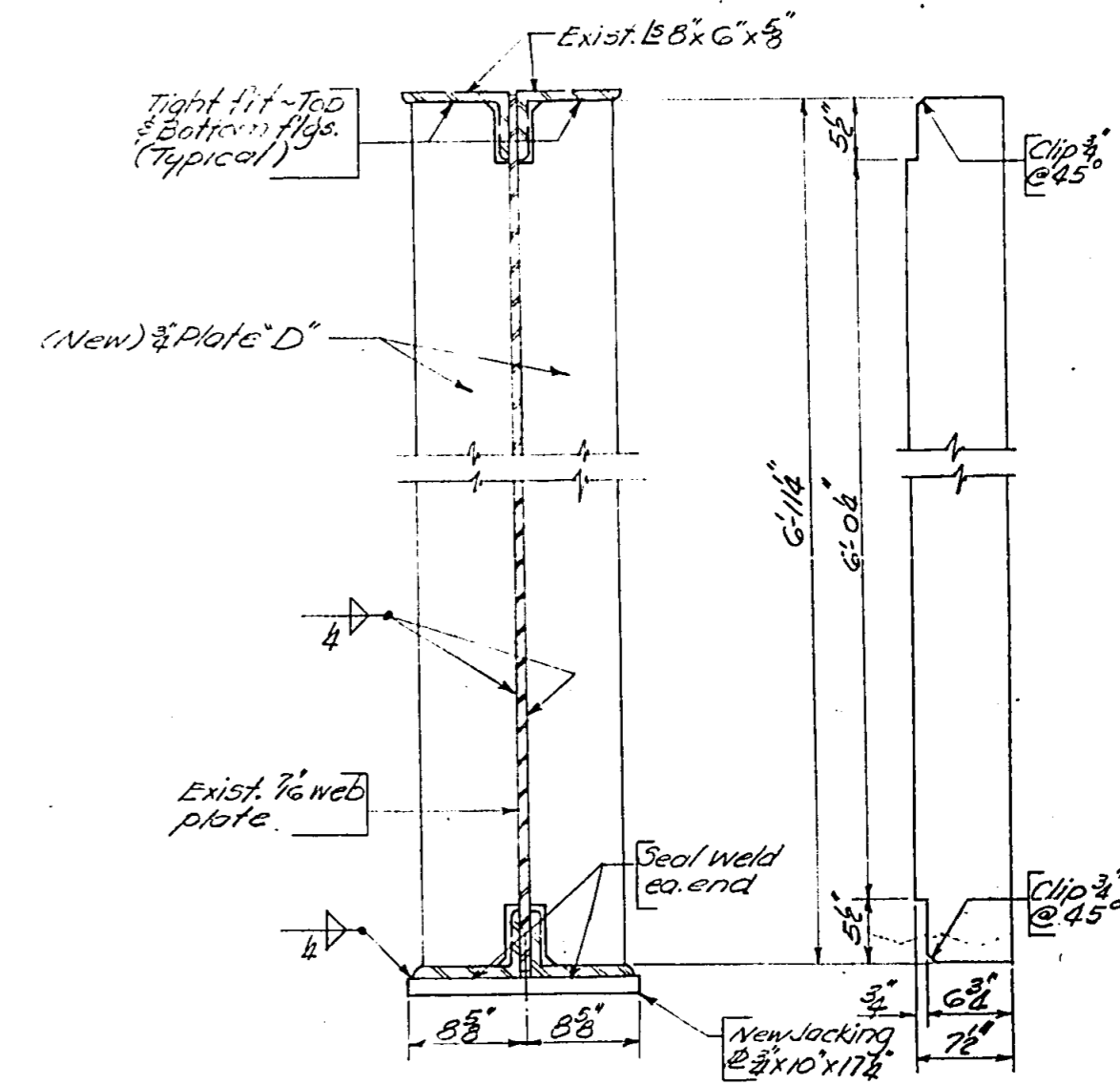
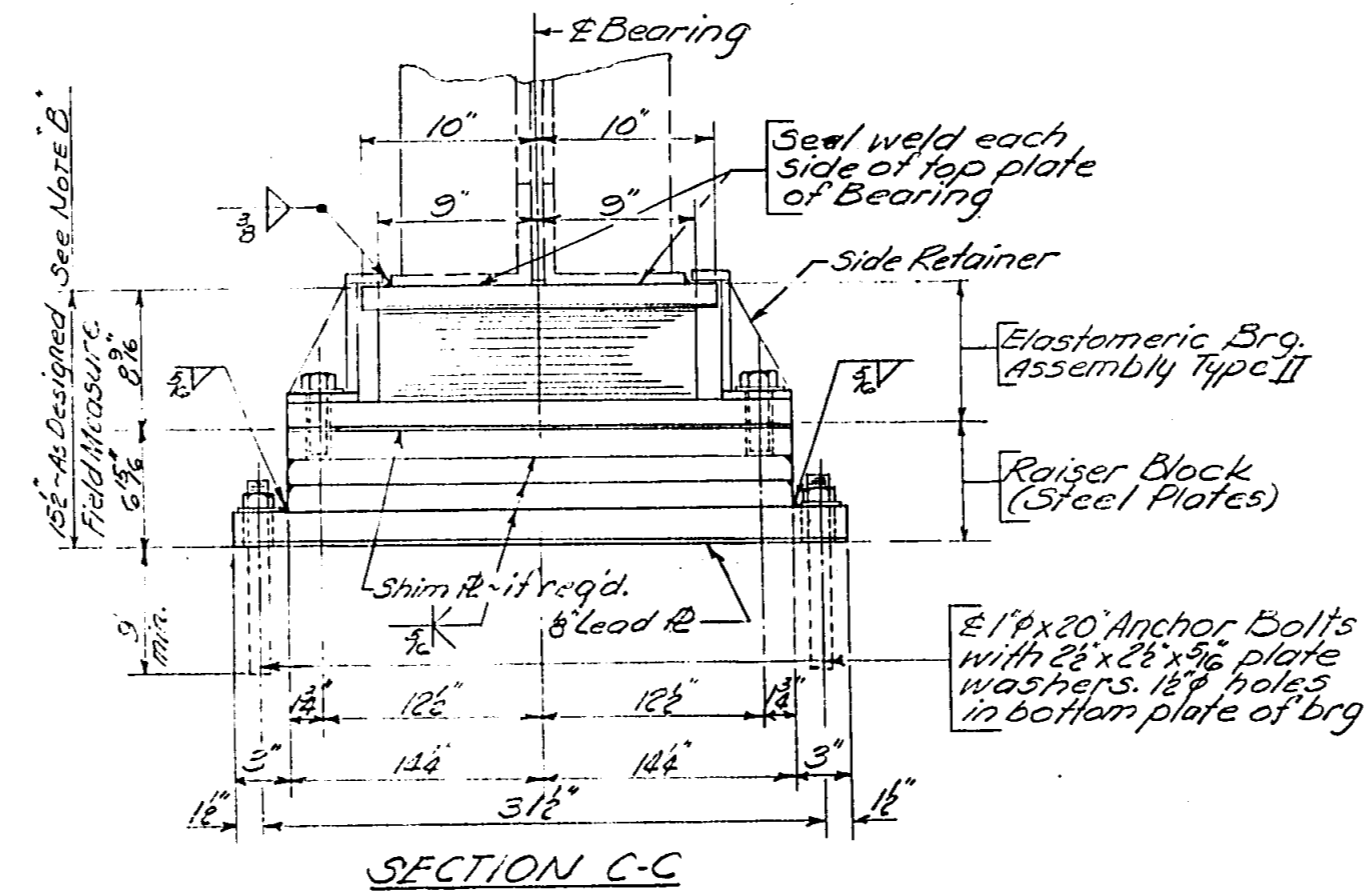
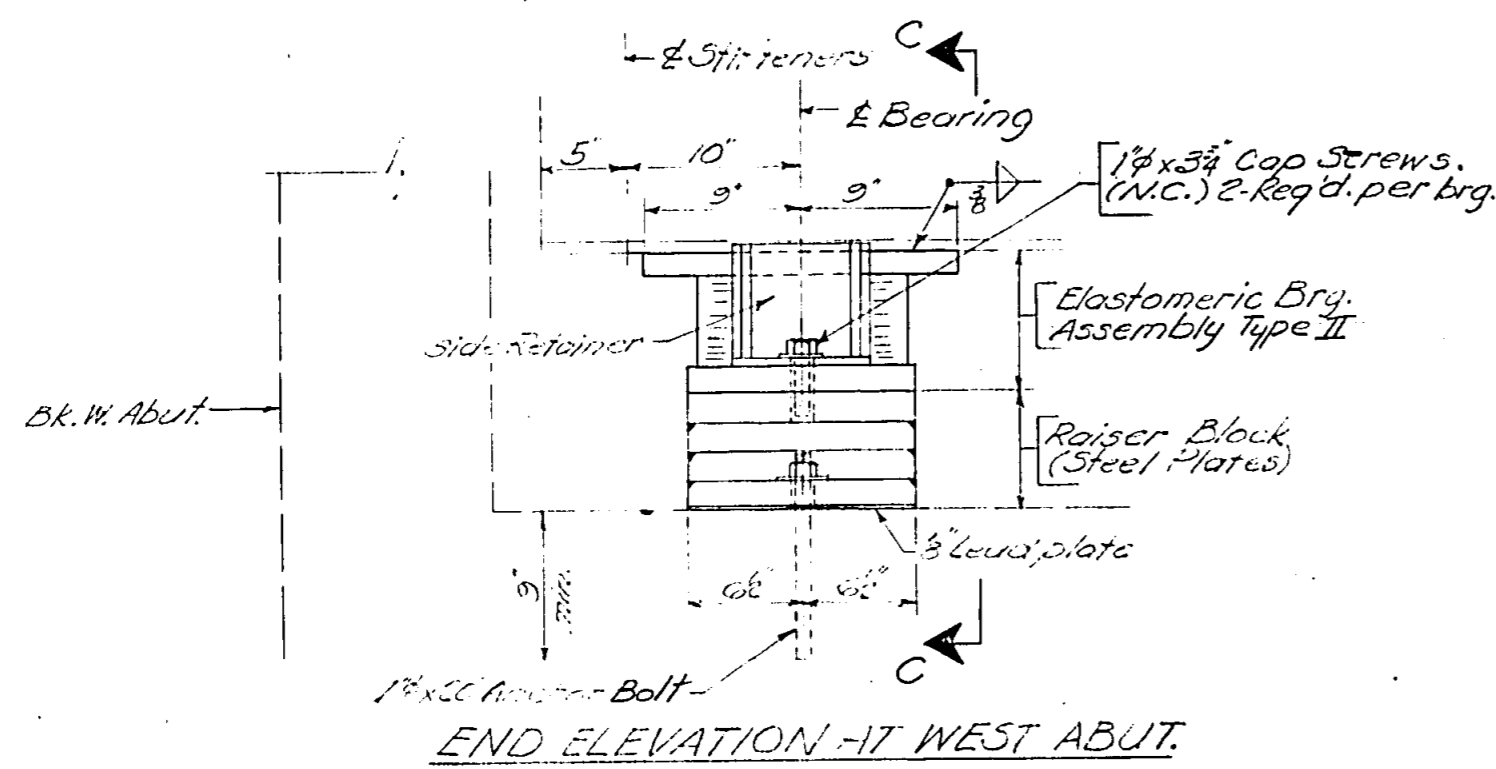


FOR INFORMATION ONLY

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNT	TOTAL SHEETS	SHEET NO.
F.A. 107	JACKSON	27	26	3

12-10-2-I

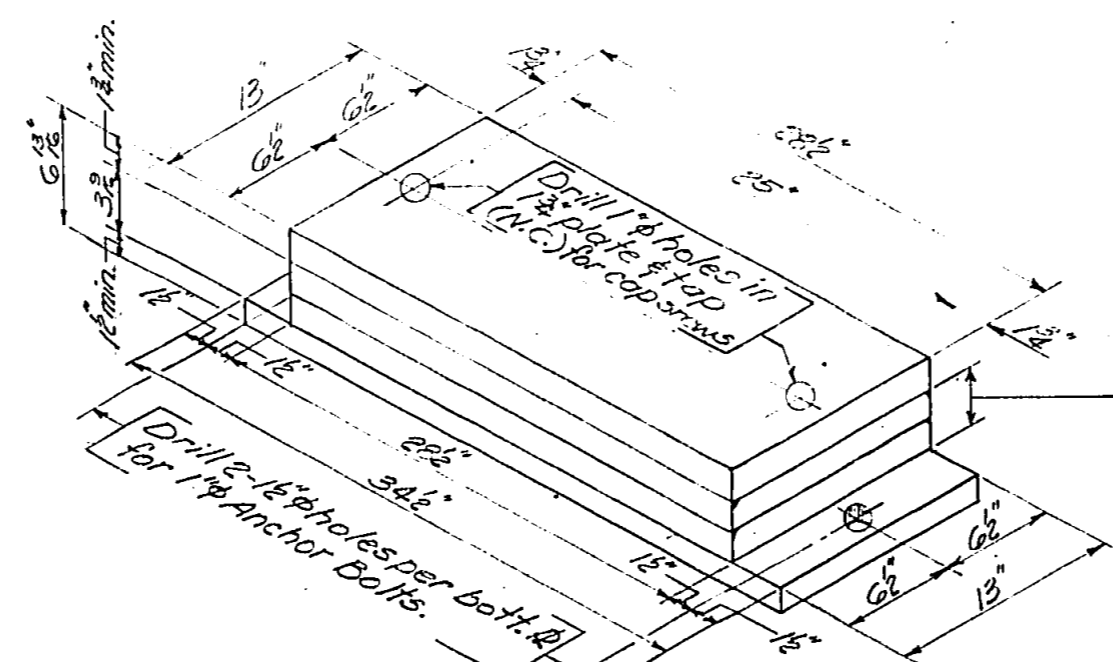
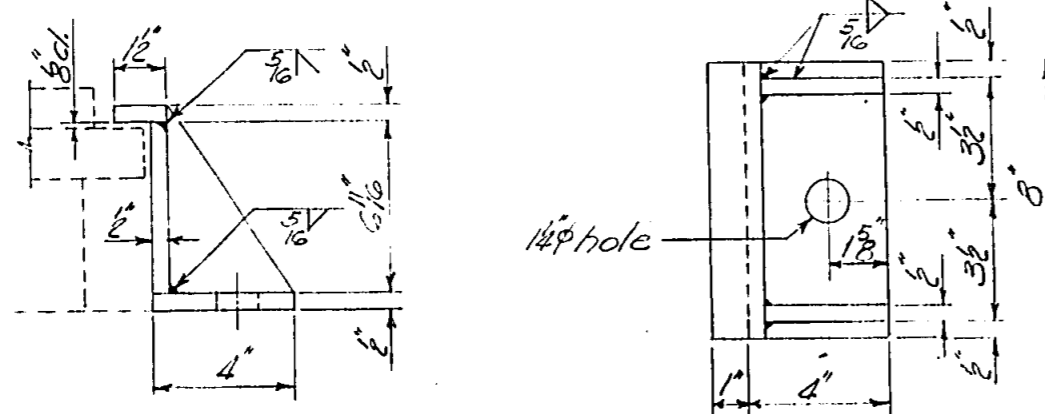


NOTE:
The 1/2 TFE sheet shall be bonded directly to the top steel laminate sheet with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-184, Type I. The bond agent shall be applied on the full area of the contact surfaces.

TYPE II TFE ELASTOMERIC EXPANSION BEARING
(No. Req'd. - 5 - West Abutment.)

NOTE D
Before fabricating the Elastomeric Brgs. and the Raiser Blocks, the Contractor shall field check the critical height in the bearing area on the abutment. To establish the correct dimension for the height of the new bearings and the raiser blocks.

PLATE 'D' - 1/2" STIFFENERS
No. Req'd. = 60 Pcs - 3/4" x 7 1/2" x 6-1/4" (Est. Wt. 2703 lbs)
Note: For location of Plate 'D' see Sheet 1



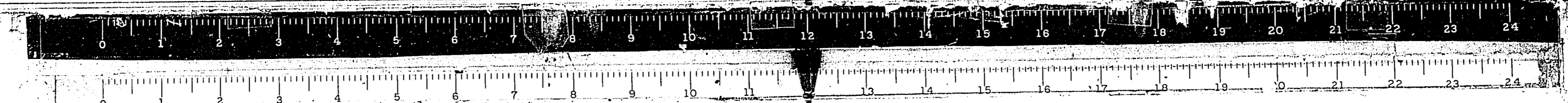
Thickness of plate or plates shall be determined by the Steel fabricator and the Contractor.

RAISER BLOCK - STEEL PLATES
No. Req'd. = 5 - West Abut. (Est. Wt. = 763 Lbs. ea. raiser block)
Total Wt. = 3815 Lbs.

WEST ABUTMENT
ELASTOMERIC BRG. TYPE II & RAISER BLOCK
F.A. RT. 107 SEC. 12-10-2-I
JACKSON COUNTY
STA. 340+95(1)

DESIGNED	TES
CHECKED	ENR
DRAWN	ENR
CHECKED	

EXAMINED	Sept. 16 1977
PASSED	
APPROVED	



FOR INFORMATION ONLY

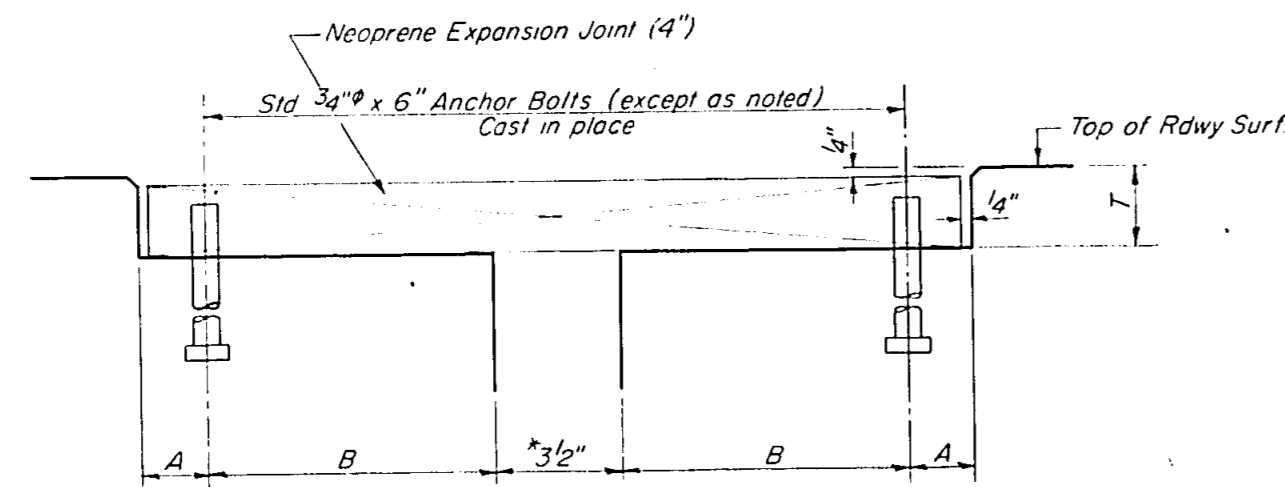
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS	SHEET NO. / SHEETS
107	JACKSON	27	27	27 / 27
#12(1B4, 1B4-1, 1B5-2, 1B-2-I)				

ALTERNATE NEOPRENE EXPANSION JOINTS (4")
(See Special Provisions)

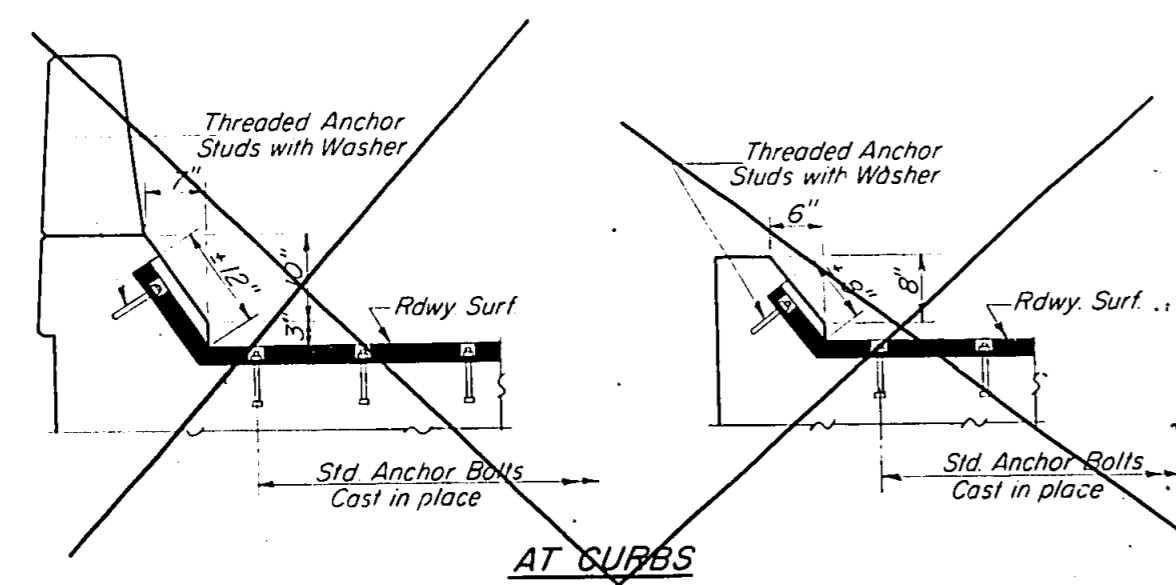
Model	Supplier	Block Dimensions
TRANSFLEX, MODEL 400A	General Tire Company	T = 2 ³ / _{8"} , A = 1 ³ / _{16"} , B = 8 ¹ / _{16"}
WABOFLEX, MODEL SR 4	Watson Bowman Associates, Inc	T = 2 ³ / _{8"} , A = 1 ¹ / _{16"} , B = 8 ¹ / _{16"}
FEL-SPAN, MODEL T-40	Fel-Pro Building Products Inc	T = 2³/_{8"}, A = 2¹/_{4"}, B = 2⁹/_{16"}
WABO ELASTODAM, TYPE 400	Watson Bowman Associates, Inc	T = 2³/_{8"}, A = 2¹/_{4"}, B = 2⁹/_{16"}

NOTE: For Fel-Span and Wabo Elastodam, set joint seal 2" at 50°F. Use 1/2" x 6" Anchor Bolts. Max expansion length = 300'.

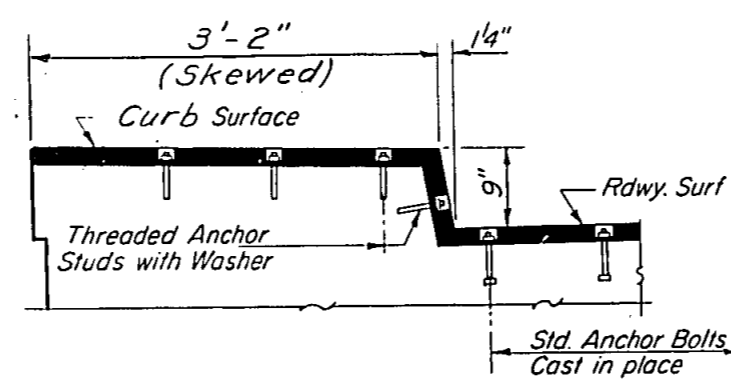


CROSS SECTION
At 50°F
Dimensions are at right angles

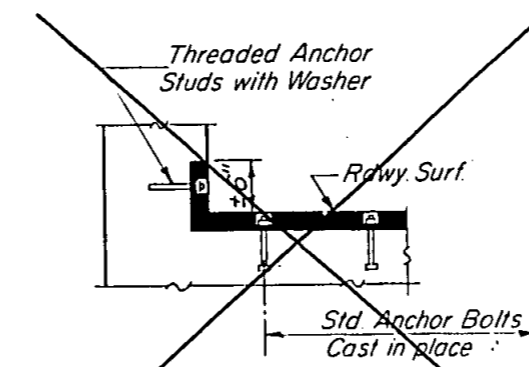
NOTE:
Joint openings shall be adjusted in accordance with Article 503.07(c) of the Std. Spec's when the deck is poured at an ambient temperature other than 50°F



AT CURBS



AT CURBS



AT ABUTMENT

TYPICAL END TREATMENTS

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN R. P. S.	APPROVED
CHECKED	DIRECTOR OF HIGHWAYS

EJ-3 2-10-77

NEOPRENE EXPANSION JOINTS (4")
FOR EXPANSION LENGTH OF DECK = 200 FT. TO 320 FT.
F.A. RT. 107 OVER BIG MUDDY
F.A. RT. 107 SEC. 12-1BJ-2
JACKSON COUNTY
STA. 340+95

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