

BM. Sp+W Root 18" Elm.
200 Lf. 208120 El. 634.52

BM. Sp+W Root 30" Maple.
8' Rt. 219145 El. 624.14

BM. Sp+W Root 30" Elm.
70' Rt. 224145 El. 818.14

BM. Sp+W Root 30" Tree
100' Rt. 226190 El. 619.69

BM. Sp+W Root Box Elder
125' Lf. 235180 El. 617.41

FA 111 110-A, Whiteside 79 8
210+00 240+00
389E

USGS DATUM

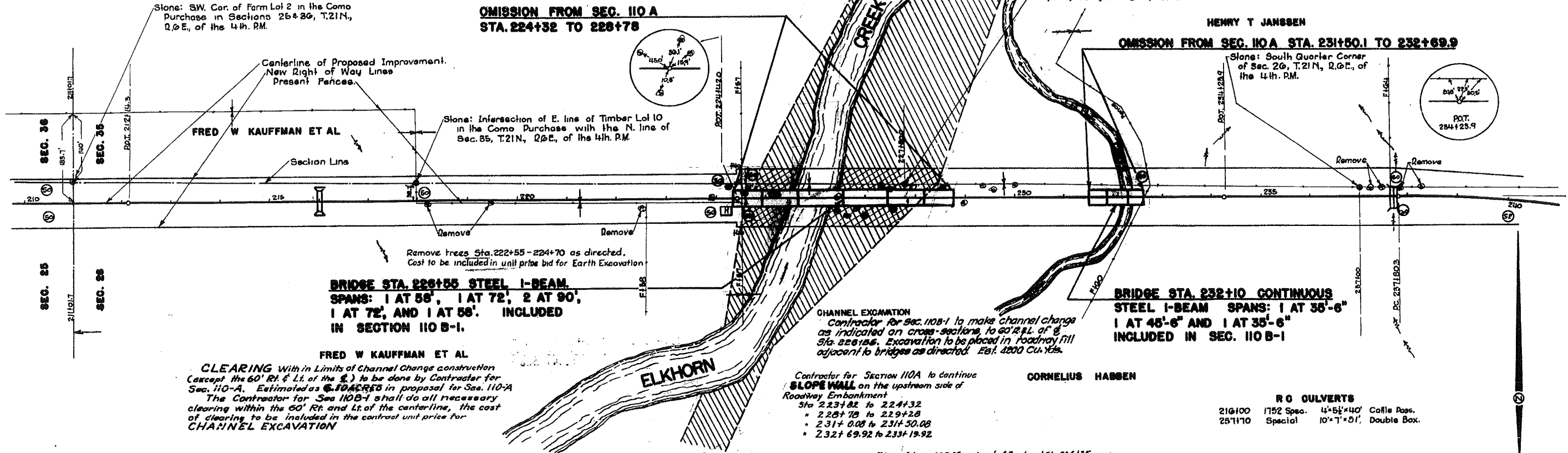
JAMES P HOPKINS

FOR CHANNEL CHANGE DETAILS
SEE SPECIAL DRAWING

OMISSION FROM SEC. 110 A
STA. 224+32 TO 228+78

HENRY T JANSSEN

OMISSION FROM SEC. 110 A STA. 231+50.1 TO 232+69.9



Special 5' Ditch
18" below shoulder
Lf. 202120-214120
Rf. 202125-213180

Ground of Proposed Improvement
Profile of Original Ground Line

Elav. of top 625.31 each end of Bridge at Sta. 226+55
625.0 at East end of Bridge at Sta. 232+10
624.8 at West end of Bridge at Sta. 232+10

SLOPE WALL
Estimated 335 Cu Yds
4 gage 6"x6" wire mesh, Chisel mesh to be included in unit price for SLOPE WALL

Special 3' Ditch
Rf. 231160-250180

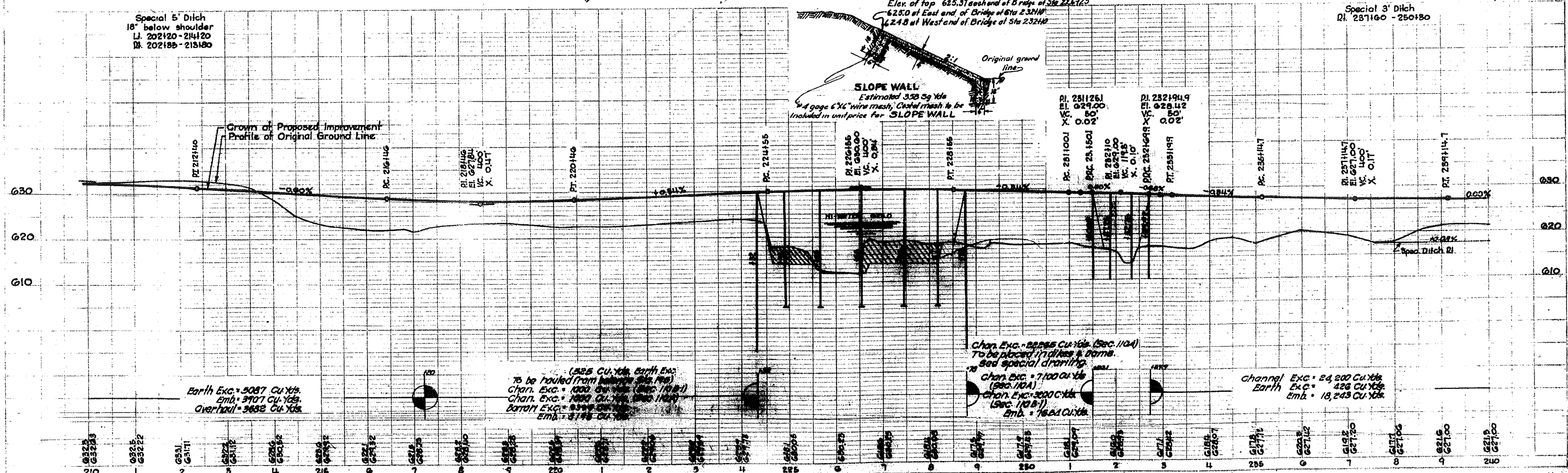
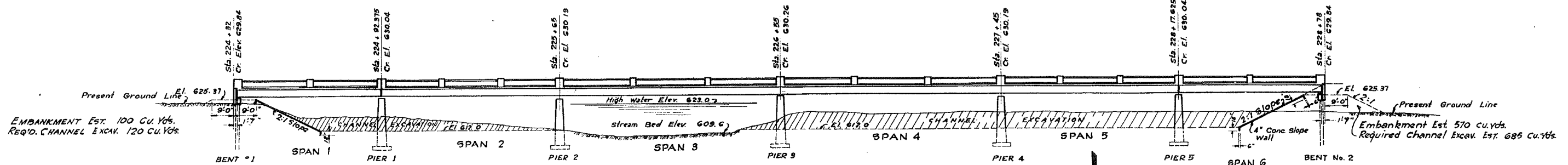


PLATE I-PLAN-PROFILE R. P. H. HANSEN
SOURCE: DISTRICT ENGINEER, CHICAGO DISTRICT

B.M. - S. & W. RT. 30" ELM 70' RT. STA. 224 + 45 EL. 618.14
 B.M. - S. & W. ROOT 30" TREE 40' RT. STA. 226 + 90 EL. 619.69
 NO EXISTING STRUCTURE - RELOCATION

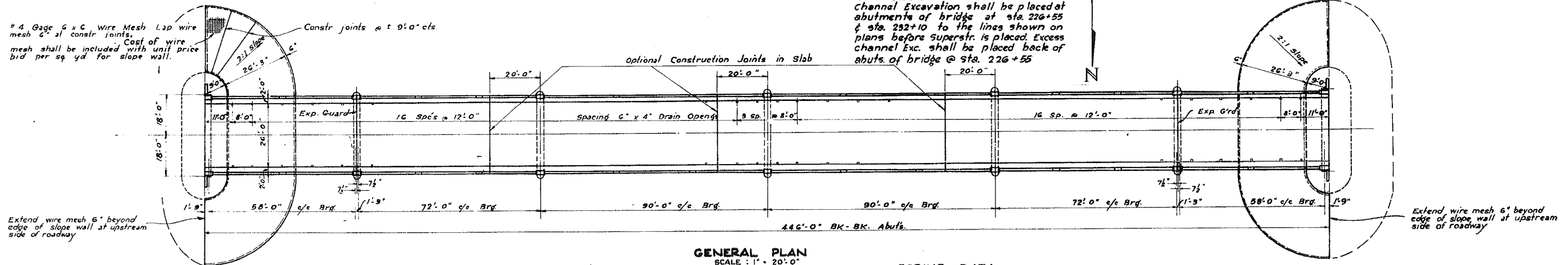
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

ROAD DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FA 141	110 B-1	Whiteside	79	59	4 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	389 E		



GENERAL ELEVATION
 SCALE: 1" = 20'

Channel Excavation 60' Rt. & Lt. of & to be made by contractor for Section 110-B1. Channel Excavation Est. 4200 cu. Yds.
 Channel Excavation shall be placed at abutments of bridge at sta. 226+55 & sta. 228+10 to the lines shown on plans before Superstr. is placed. Excess channel Exc. shall be placed back of abuts. of bridge at Sta. 226+55



GENERAL PLAN
 SCALE: 1" = 20'-0"

BORING DATA
 ALL BORINGS AT & ROADWAY

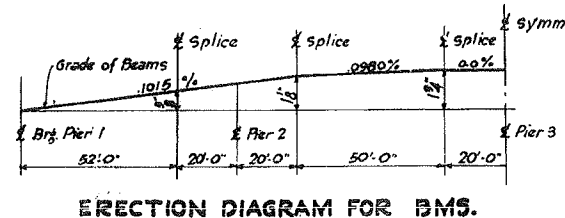
Station	Soil	Station	Soil	Station	Soil	Station	Soil	Station	Soil
620	Black Soil	610	Black Soil	600	Black Soil	590	Black Soil	580	Black Soil
610	Gravel	600	Gravel	590	Gravel	580	Gravel	570	Gravel
600	Yellow Sand	590	Yellow Sand	580	Yellow Sand	570	Yellow Sand		
590	Gravel	580	Gravel	570	Gravel				
580	Blue Clay Hard	570	Blue Clay Hard						
570	Limestone								

TOTAL BILL OF MATERIAL

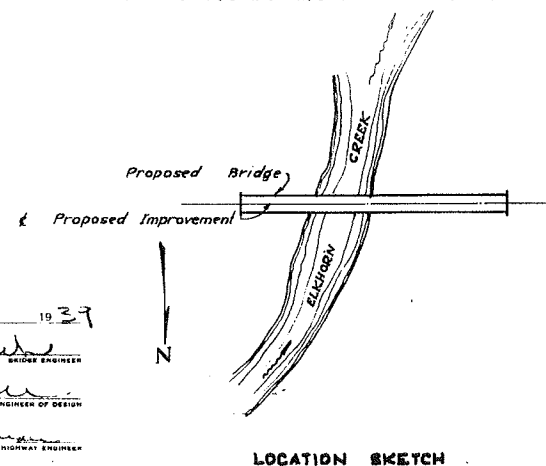
ITEM	SEC. B1	SEC. F1
Class X Concrete	424.2	
Handrail Concrete	50.8	
Class A. Concrete	500.8	
Reinf. Bars	125/60	
Structural Steel	492540	492540
Name Plate	one	
18" Precast Conc. Piling (40' L.F.)	200	
18" " " (35' L.F.)	105	
Untreated Piling (26' L.F.)	2340	
" " (20' L.F.)	560	
" " (16' L.F.)	448	
Test Piles - Concrete	2	
" - Timber	2	
Channel Excavation	4200	
Slope Wall	669	

GENERAL NOTES

Class X Concrete shall be used thru-out except in piers. Class A Concrete shall be used in piers.
 Floor Slab shall be finished in accordance with Art. 513(e) of the Specifications.
 Floor Slab for Spans 1 & 6 each shall be poured in one continuous operation. Floor Slab for Spans 2-3-4 & 5 shall be poured in one continuous operation, or in one continuous operation between limits of construction joints and expansion guards as shown.
 Rivets 3/8" Holes 1/2", except as noted. All Conns. Riv. except as shown. Ribbed tight-fit bolts may be substituted for field rivets, see supplemental specifications.
 Inspection of structural steel by Illinois Division of Highways before painting.
 The Contractor for Sec. 110 F-1 shall furnish and apply one shop coat of red lead paint. The Contractor for Sec. 110-B-1 shall furnish & apply red lead paint for spot painting & shall apply 2 field coats of white lead paint. White lead paint shall be furnished by the Dept.
 Anchor Bolts shall be set before riveting diaphragm connections over bents.
 Contractor shall drive two concrete test piles and two timber test piles as directed by the Engineer.
 The Contractor for Sec. 110 B-1 shall do all necessary clearing within 60' Rt. & Lt. of & the cost of same to be included in the contract unit price for channel excavation.



ERECTION DIAGRAM FOR BMS.



LOCATION SKETCH

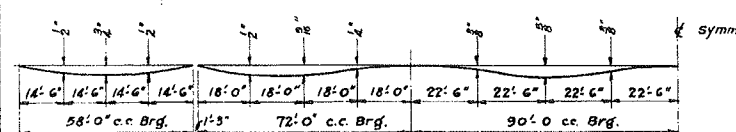
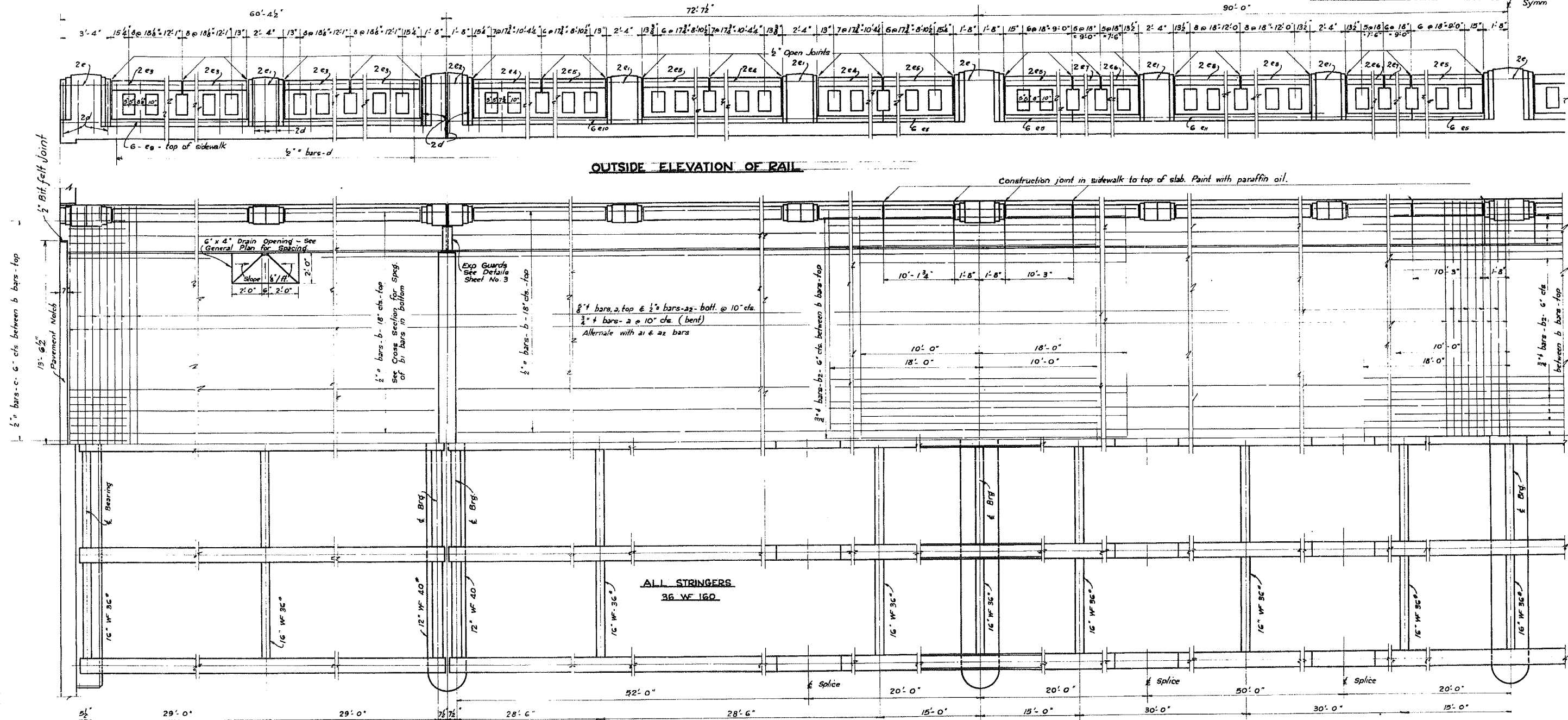
COMPUTED	5-7-1937
CHECKED	W. F. Sweeney
DRAWN	W. F. Sweeney
CHECKED	W. F. Sweeney
ASSEMBLED	W. F. Sweeney
CHECKED	W. F. Sweeney

ELKHORN CREEK
 F. A. ROUTE 141 SEC. 110 B1-F1
 WHITESIDE COUNTY
 STA. 226 + 55

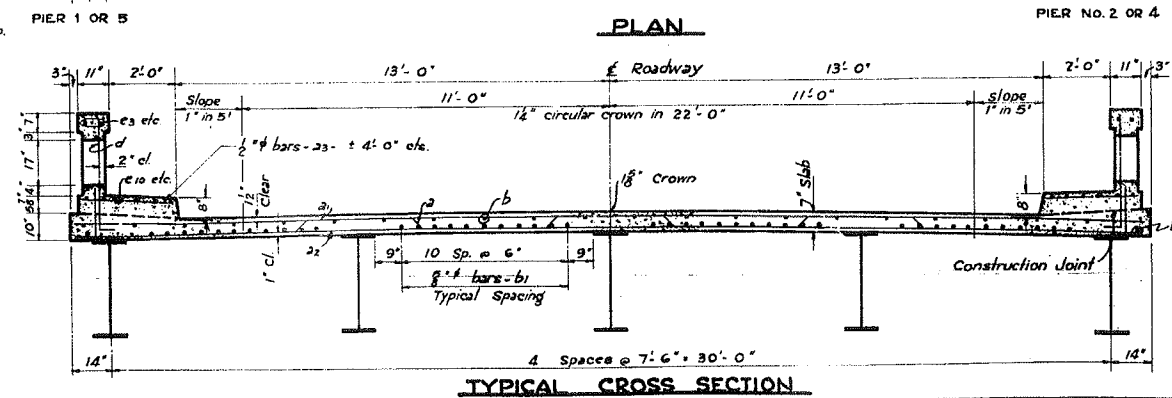
7-20 LOADING

ROAD ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 141	110 B-1 F-1	Whiteside	29	60
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	369-E	

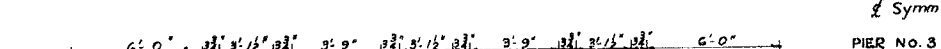
SHEET NO. 2
4 SHEETS



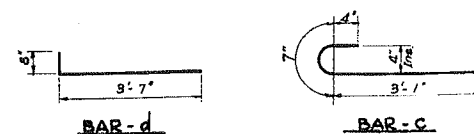
	COMPUTED	<i>W.D. Owen</i>	EXAMINED	<i>5-9-39</i>	19 <i>39</i>
STANDARD	CHECKED	<i>W. J. Schlemmer</i>		<i>W. F. Burt</i>	BRIDGE ENGINEER
	DRAWN	<i>W.D. Henry at Traffic</i>	PASSED	<i>W. J. Schlemmer</i>	ENGINEER OF DESIGN
	CHECKED	<i>W.D.</i>			
SPECIAL	ASSEMBLED		APPROVED	<i>W. J. Schlemmer</i>	CHIEF HIGHWAY ENGINEER
	CHECKED				



TYPICAL CROSS SECTION



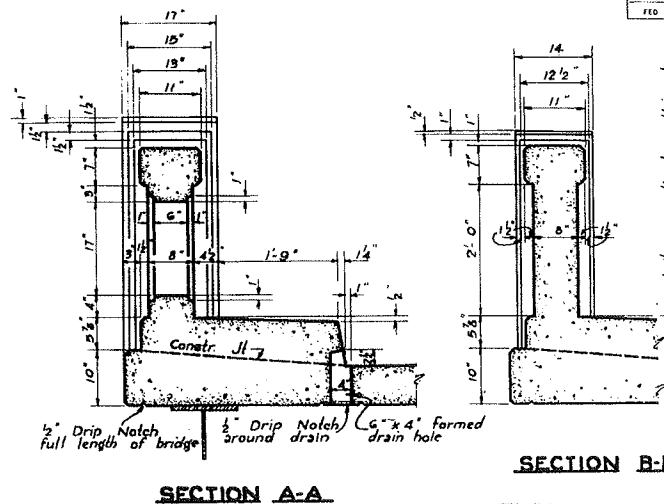
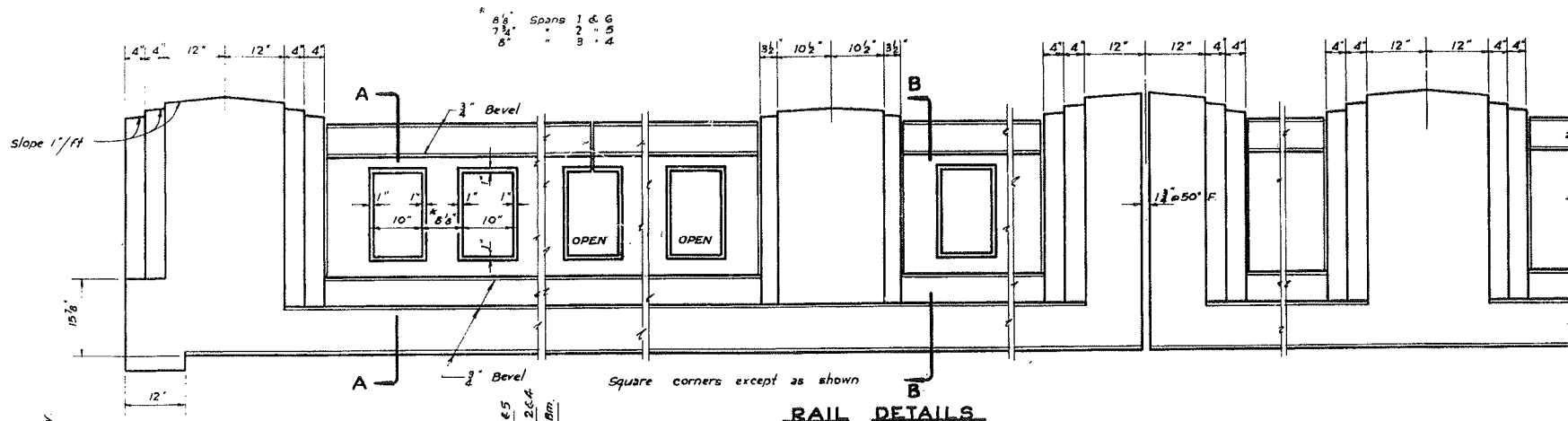
DETAIL BAR-a



ELKHORN CREEK
F. A. ROUTE 141 - SEC. 110-B1-F-1
WHITESIDE COUNTY
STA. 226 + 55

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

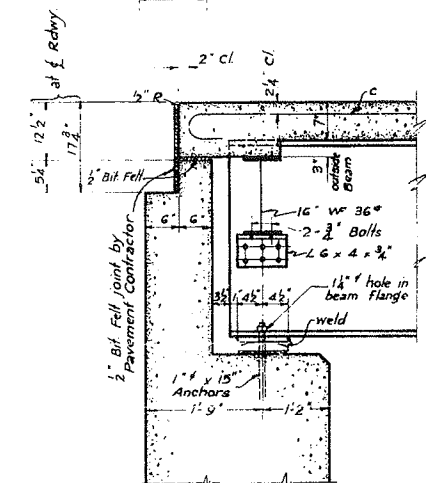
ROAD DISTRICT	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FA 141	110 B-1	Whiteside	79	61	4 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	389-E		



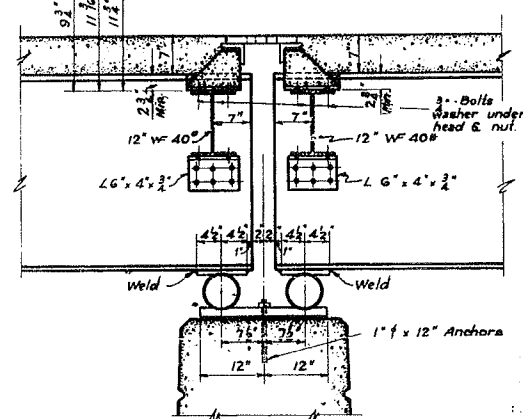
FILLET
BILL OF MATERIAL - SUPERSTRUCTURE

BAR	No.	SIZE	LENGTH
a	532	3/4" x 6"	
a1	531	3/8" x 32'-0"	
a2	531	1/2" x 32'-0"	
a3	224	1/2" x 2'-9"	
b	330	1/2" x 30'-9"	
b1	690	3/8" x 31'-0"	
b2	126	3/4" x 28'-0"	
c	84	1/2" x 4'-0"	
d	780	1/2" x 4'-3"	
e	20	" x 3'-0"	
e1	40	" x 2'-0"	
e2	16	" x 1'-3"	
e3	32	" x 13'-0"	
e4	24	" x 11'-3"	
e5	112	" x 9'-6"	
e6	16	" x 8'-3"	
e7	16	" x 8'-9"	
e8	16	" x 12'-9"	
e9	48	" x 30'-9"	
e10	48	" x 31'-3"	
e11	72	" x 22'-9"	

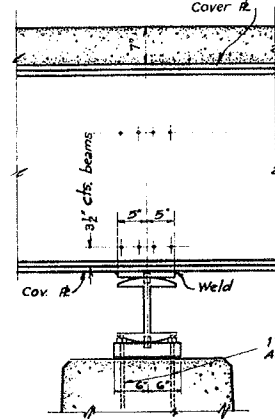
Class X Concrete	Cu. Yds.	392.8
Handrail Concrete	Cu. Yds.	50.8
Reinforcement Bars	Lbs.	105430
Structural Steel	Lbs.	492540
Name Plate	Each	ONE



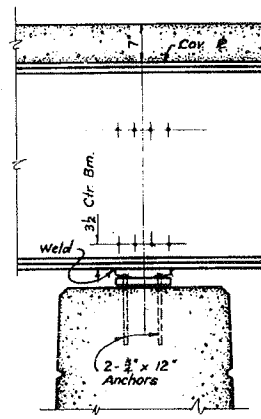
DETAIL AT BENTS 1 & 2



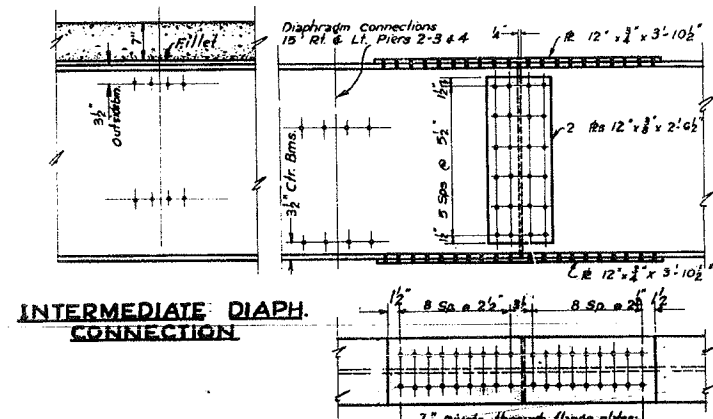
DETAIL AT PIERS 1 & 5



DETAIL AT PIERS 2 & 4

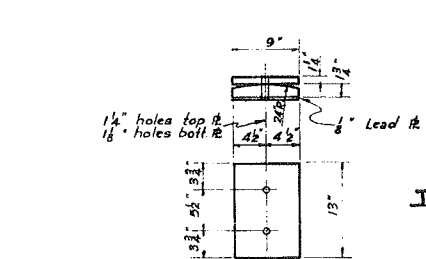


DETAIL AT PIER 3

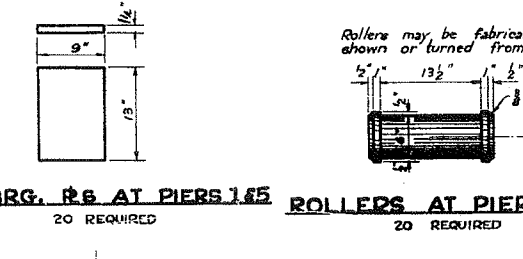


INTERMEDIATE DIAPH. CONNECTION

SPLICE DETAILS

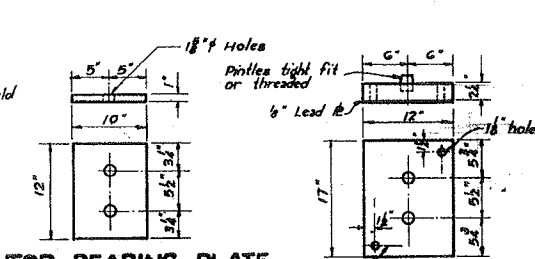


BRG. RS. AT BENTS 1 & 2



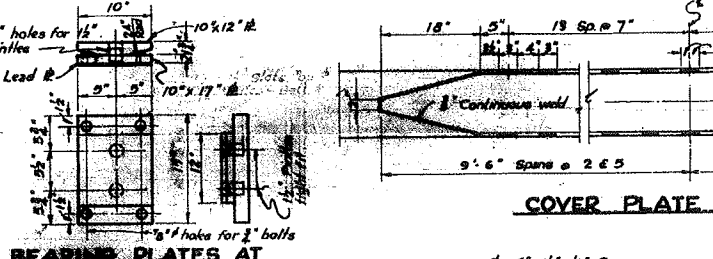
TOP BRG. RS. AT PIERS 1 & 5

ROLLERS AT PIERS 1 & 5

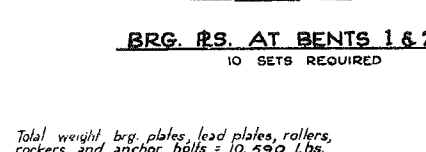


TOP BEARING PLATE AT PIERS 2 & 4

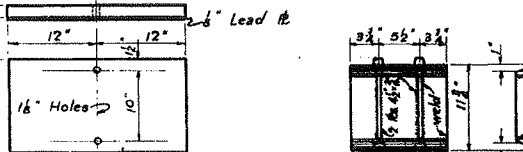
BOTT. BEARING PLATE AT PIERS 2 & 4



COVER PLATE DETAILS

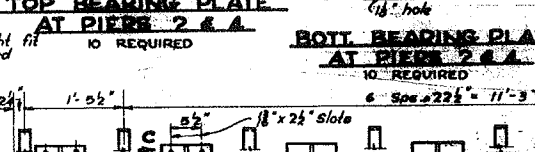


BRG. RS. AT BENTS 1 & 2

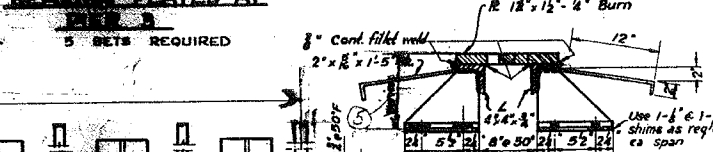


BOTTOM BRG. RS. AT PIERS 1 & 5

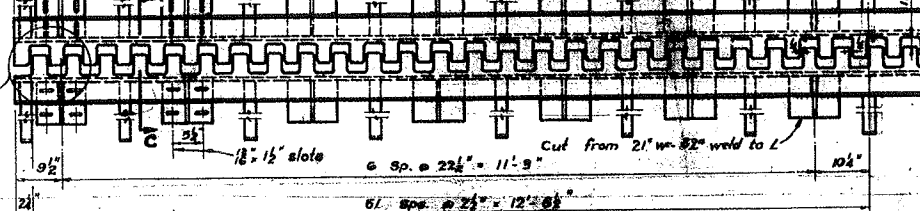
ROCKER AT PIERS 2 & 4



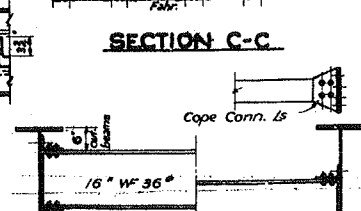
DETAIL OF PINTLE



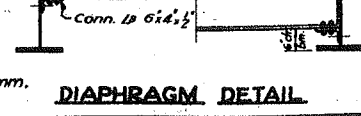
DETAIL OF EXP. R.



HALF PLAN - ROADWAY EXPANSION GUARD



SECTION C-C



DIAPHRAGM DETAIL

DETAILS OF SIDEWALK EXP. GUARD

Total Weight Exp. Guards = 6910 Lbs.

2 PLS. 12' x 15'
4 LBS. 4' x 4' x 3/4"
4 LBS. 7' x 3' x 3/4"
4 LBS. 3' x 3' x 3/4"
4 LBS. 4' x 5' x 3/4"

For Expansion guards to be 0.2% Copper bearing steel A.S.T.M. A-7
ELKHORN CREEK
F. A. ROUTE 141 - SEC. 110 B-1
WHITESIDE COUNTY
STA. 226 + 55

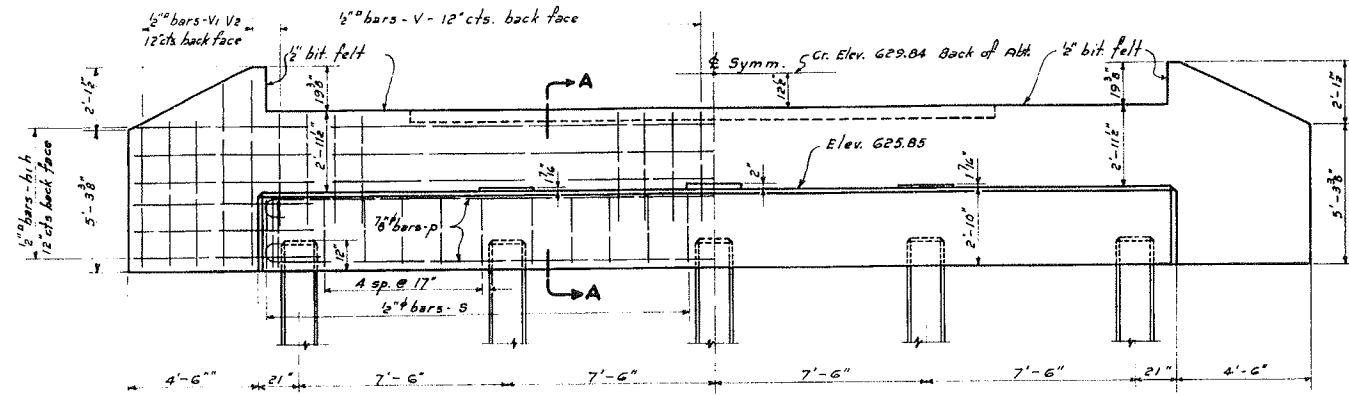
Total weight brg. plates, lead plates, rollers, rockers, and anchor bolts = 10,590 Lbs. Included in item Structural Steel.

COMPUTED 24 Owen
CHECKED M. Schloesser
DRAWN H.O. Henry
CHECKED M.S.
SPECIAL ASSEMBLED
CHECKED

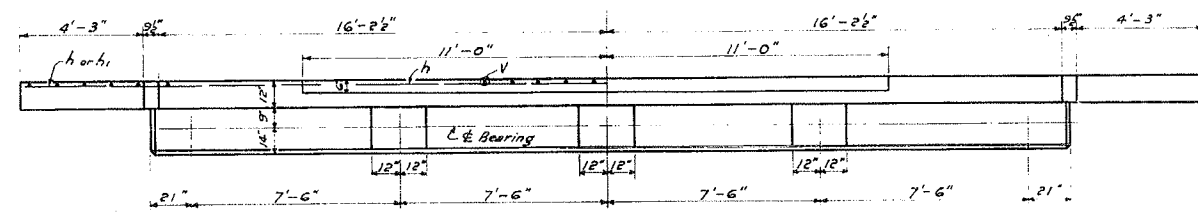
EXAMINED 5-9-39
H. F. Burch
PASSED
APPROVED
CHIEF HIGHWAY ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FA 141	110 B-1 F-1	Whiteside	79	62	4 SHEETS
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	389E		



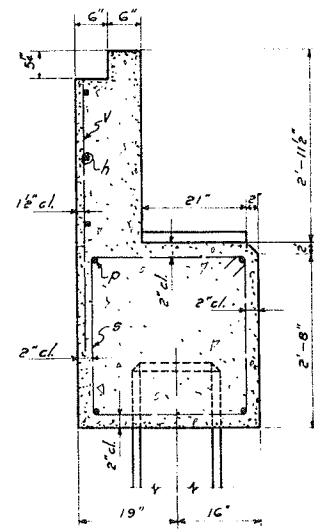
FRONT ELEVATION



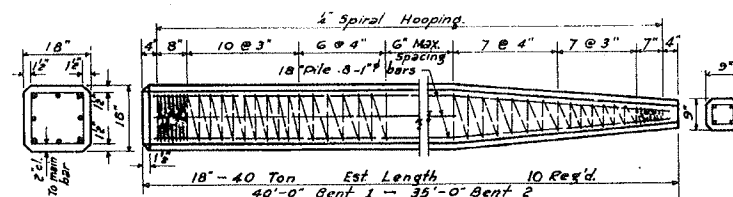
PLAN - BENTS 1 & 2

BILL OF MATERIAL - BENTS 1 & 2

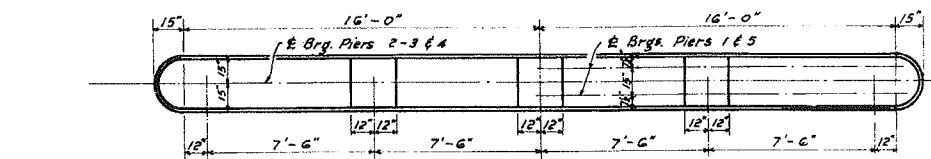
BAR	NO.	SIZE	LENGTH
h	12	1/2"	21'-0"
h ₁	12	"	6'-0"
V	66	"	4'-3"
V ₁	12	"	5'-0"
V ₂	8	"	6'-6"
P	8	7/8"	35'-0"
S	52	1/2"	11'-3"
Class X Concrete Cu.Yds. 31.4			
Reinforcement Bars Lbs. 1580			
18" Precast Piling (40' Lg.) Lin.Ft. 200			
18" Precast Piling (35' Lg.) Lin.Ft. 175			
Test Piles (Conc.) Each. 2			



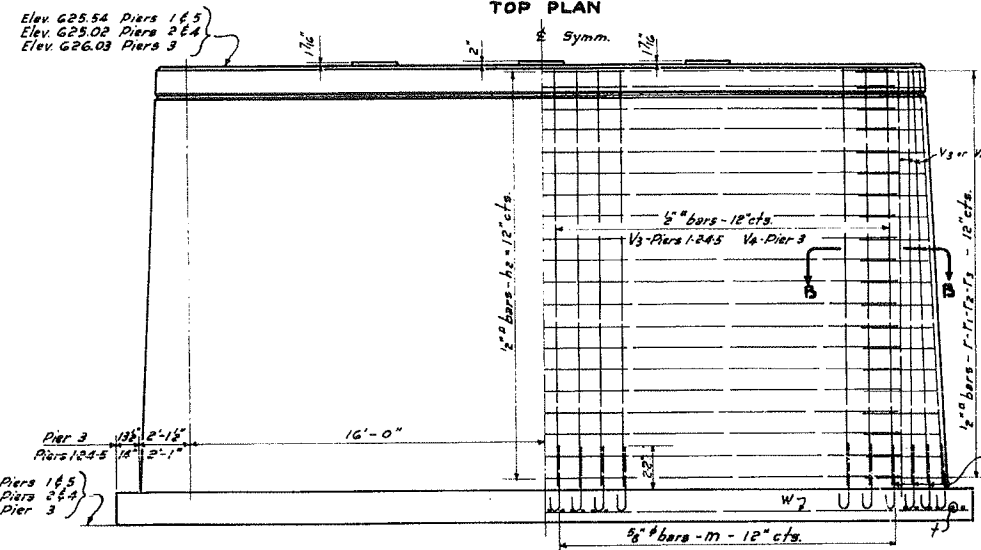
SECTION A-A



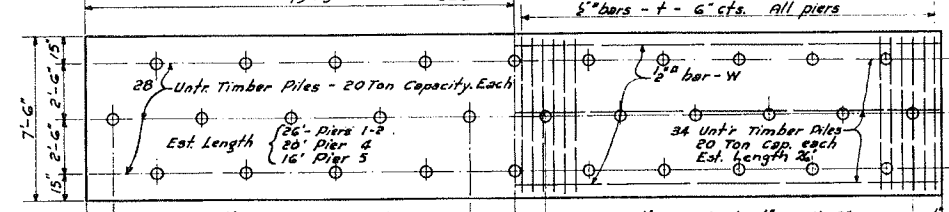
DETAIL OF PRECAST CONCRETE PILES



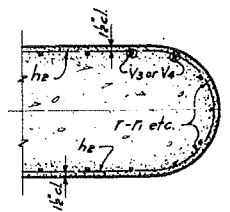
TOP PLAN



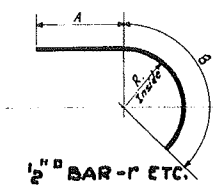
ELEVATION



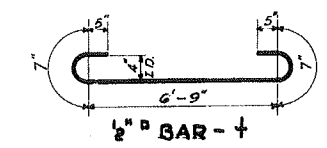
FOOTING PLAN
PIERS 1-2-3-4-5



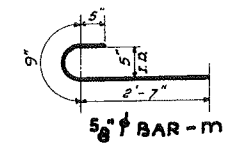
SECTION B-B



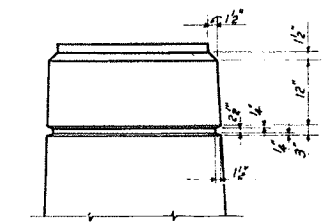
1/2" BAR - R ETC.



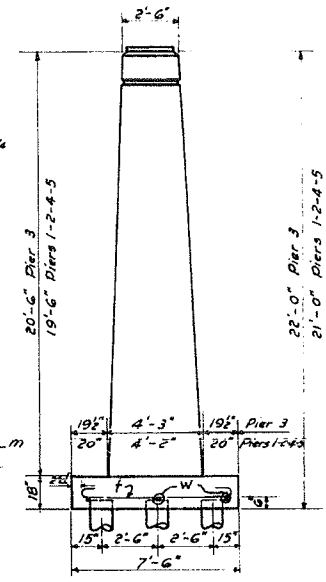
1/2" BAR - T



5/8" BAR - M



DETAIL OF PIER TOP



END VIEW

BILL OF MATERIAL PIERS 1-5 INCL.

BAR	NO.	SIZE	LENGTH
h ₂	202	1/2"	31'-6"
V ₃	296	"	19'-3"
V ₄	74	"	20'-3"
T	385	"	8'-9"
W	30	"	20'-0"
r	104	"	4'-9"
r ₁	100	"	5'-0"
r ₂	100	"	5'-6"
r ₃	100	"	5'-9"
M	370	5/8"	3'-9"
Class A Concrete Cu.Yds. 5008			
Reinforcement Bars Lbs. 18150			
Unfr. Piling (26' Lg.) Lin.Ft. 2340			
Unfr. Piling (20' Lg.) Lin.Ft. 560			
Unfr. Piling (16' Lg.) Lin.Ft. 448			
Test Piles (Timber) Each. 2			

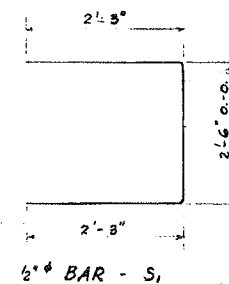
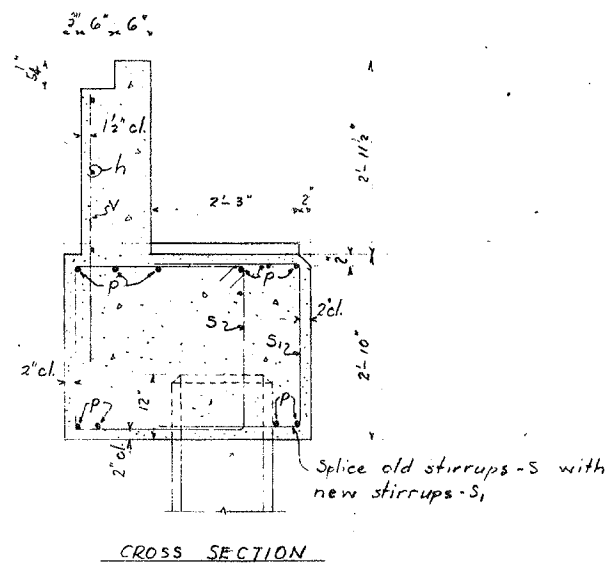
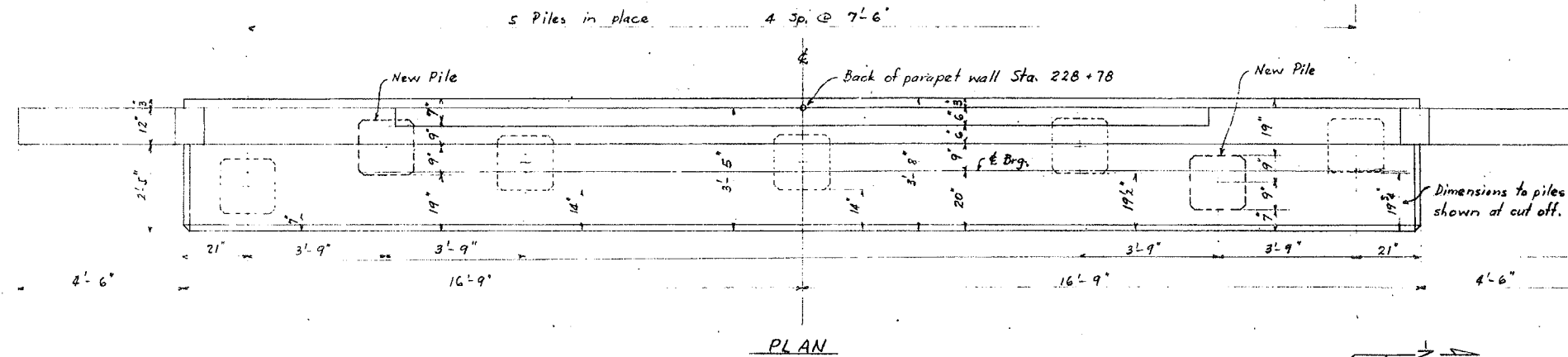
ELKHORN CREEK
F.A. ROUTE 141 SEC. 110-B.1.
WHITESIDE COUNTY
STA. 226 + 55

COMPUTED: H. Owen
CHECKED: M. Schilling
DRAWN: M. Schilling
CHECKED: M. Schilling
SPECIAL: ASSEMBLED
CHECKED: M. Schilling

EXAMINED: 5-9-1939
PASSED: H. F. Buehl
APPROVED: H. F. Buehl
CHIEF HIGHWAY ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

Sheet 4-A



ADDITIONAL BILL OF MATERIAL

Bar	No.	Size	Length
p	6	7/8"	35'-0"
S ₁	26	1/2"	7'-0"
Class X Concrete Cu.Yds. 2.6			
Reinforcement Bars Lbs. 580			
18" Precast Piles (Long) Lin.Ft.			

Dimensions, reinforcement and details not shown same as original plan.

ASSEMBLER *W.L. Brown*
CHECKED L.E.P.

EXAMINED 9-16-1939

H. J. Brown BRIDGE ENGINEER
H. E. Sullivan ENGINEER OF DESIGN
Ernst Lehman CHIEF HIGHWAY ENGINEER

REVISION FOR BENT 2

ELKHORN CREEK
F.A. ROUTE 141 SEC. 110-B1
WHITESIDE COUNTY
STA. 226 + 55