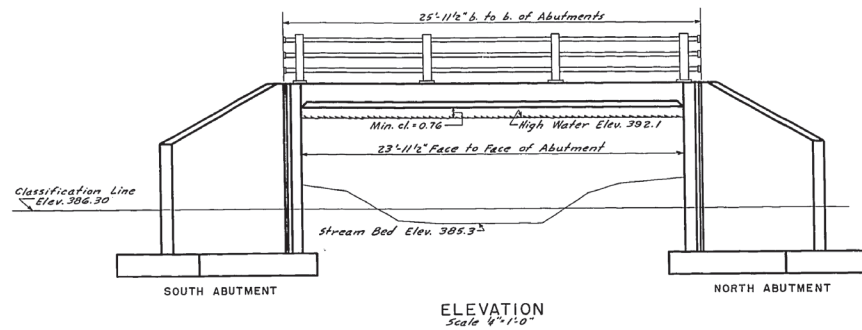


B.M. D. Out top South End of S.E. Wing Wall.  
 13' R2 Sta. 641+0.0 Elev. 388.54  
 Existing Bridge - P.C. Sta. 23+1/2' Face to  
 Face of abutments, 20' O. Rwy. closed.  
 R.C. Abutments to be widened to 35' O.  
 Rwy. The Rail and portions of slab  
 and wings to be removed by Bridge  
 Contractor.

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

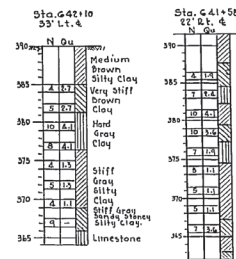
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 2	7-BY	Jackson	89	81
	2-D2	Perry		
	2-B1			

FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT



WATERWAY INFORMATION

Drainage Area - 150 Acres  
 Character - Rolling & Cultivated  
 Opening Required - 128 Sq. Ft.  
 Present Bridge Opening - 132 Sq. Ft.  
 Proposed Bridge Opening - 132 Sq. Ft.

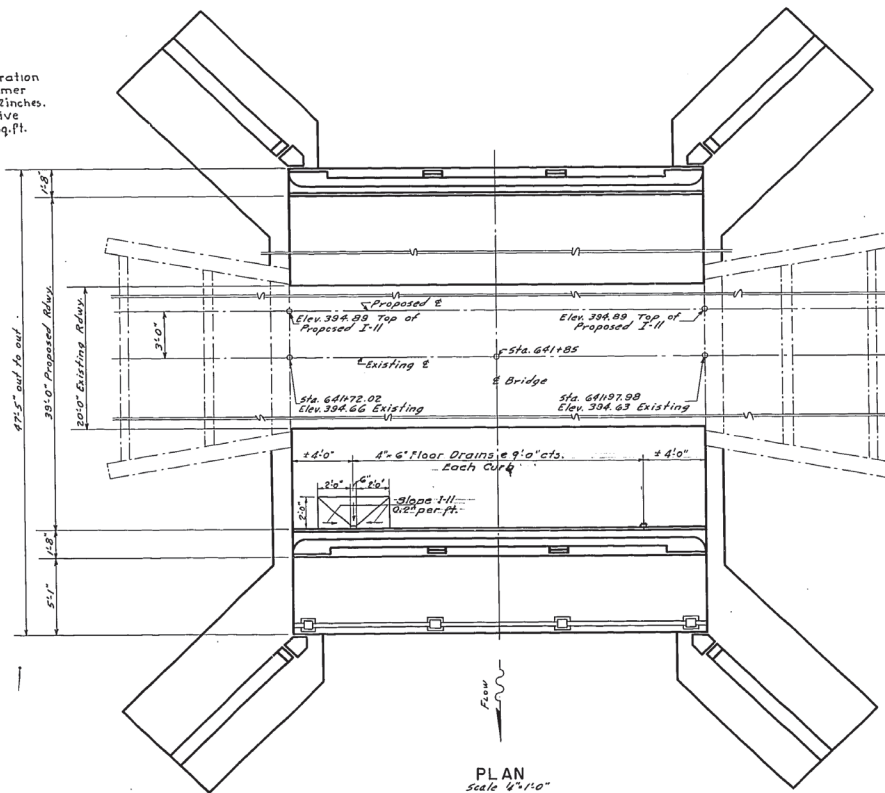


N = Blows per foot of penetration  
 of sampling spoon. Hammer  
 Weight 350 lbs. Drop 12 inches.  
 Q<sub>u</sub> = Unconfined compressive  
 strength in tons per sq. ft.

BORINGS

STATION 641+85  
 BUILT 195 BY  
 STATE OF ILLINOIS  
 S.B.I. RT. 2 SEC. 4-BY  
 LOADING H-20

LETTERING FOR  
 NAME PLATE  
 See Std. 215



**GENERAL NOTES**  
 Class X Concrete shall be used thru out except in Handrails.  
 Handrail concrete shall be used in Posts and Rails.  
 The concrete floor slab shall be poured in one continuous  
 operation and shall be finished in accordance with Sec. 52  
 of the Std. Specs.  
 The curbs shall be poured monolithically with slab.  
 The Handrail shall not be poured until after the false-  
 work has been removed.  
 The contract unit price for Expansion Bolts shall include  
 furnishing, drilling holes, and setting bolts.  
 Class "A" Excavation includes all Excavation for structure  
 above Classification Line.  
 Class "B" Excavation includes all Excavation for structure  
 below Classification Line.  
 All Reinforcement Bars shall conform to A.S.T.M. Specs.  
 A-305-40  
 Existing sidewalk Bridge on the right side of roadway  
 to be removed by Contractor for section 4-BY at the time  
 when bridge is widened. Cost shall be incidental to the Contract.  
 The Bridge is 30' long with 2 channels, 1'-2" beam stringer,  
 2" plank floor 8' wide, steel handrail, concrete abutments  
 and Timber Bent Pier.  
 Fabrication and erection of the Metal Handrail shall be  
 done in accordance with the requirements for Steel Structures  
 in the Std. Specs. Rigging detail to be adjusted to true alignment,  
 after curbs have been poured. The railing shall receive one  
 shop coat of red lead paint and three field coats of aluminum  
 paint.  
 All paints shall be furnished and applied by the contractor  
 for backfill behind abutments held at the top by super-  
 structure, see Art. 50.10 of the Std. Specs.  
 Waterproof back of new abutments and wingwalls to top  
 of footings.  
 Boring Data are shown only as a guide to bidders in estimating  
 soil conditions which may be encountered in the work.

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Class X Concrete	Cu. Yds.	33.7	54.8	88.5
Handrail Concrete	Cu. Yds.	1.2		1.2
Reinforcement Bars	Lbs.	7,220	3,560	10,780
Masonry Removal	Cu. Yds.	10.0	3.0	13.0
Name Plate	Each	One		One
Expansion Bolts	Each	40		40
Class A Excavation for Str.	Cu. Yds.			.177
Class B Excavation for Str.	Cu. Yds.			.193
Metal Handrail	Lin. Ft.	26		26

STRESSES

f<sub>c</sub> (Main) = 20,000 psi  
 f<sub>c</sub> (Super) = 1,400 psi  
 f<sub>c</sub> (Sub) = 800 psi  
 n = 10

DESIGNED *Walter E. Fisher*  
 CHECKED *J. A. Razzack*  
 DRAWN *W. A. Sussman Jr.*  
 CHECKED *J. A. Razzack*

EXAMINED *W. E. Houston*  
 PASSED *E. J. ...*  
 APPROVED *F. J. ...*

Apr 8 1953

GENERAL PLAN & ELEVATION

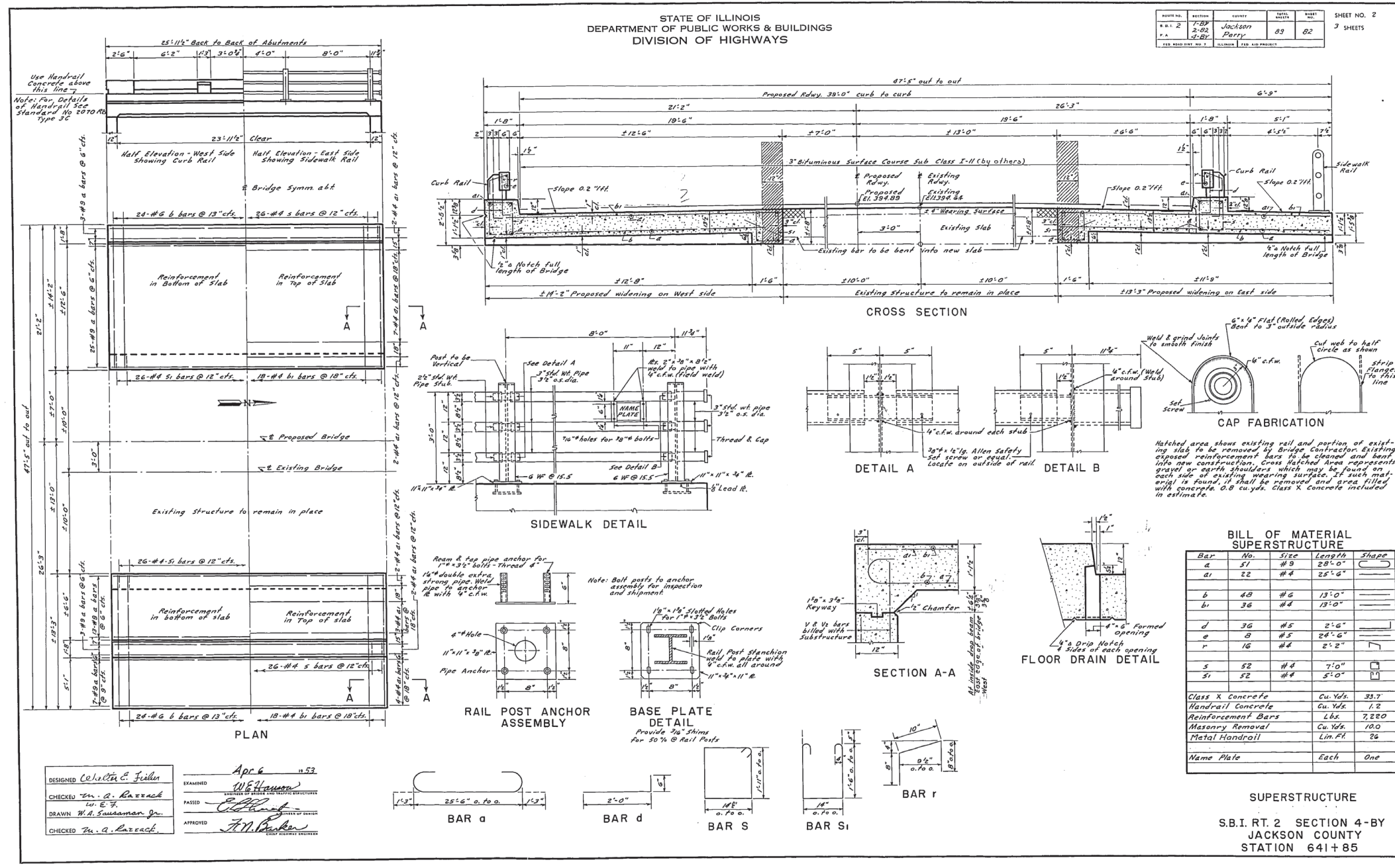
S.B.I. RT. 2 SECTION 4-BY  
 JACKSON COUNTY  
 STATION 641+85

LOADING H20-44



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

PROJECT NO.	SECTION	COUNTY	TOWNSHIP	RANGE	SHEET NO.
S.B.I. RT. 2	4-BY	Jackson	89	82	3 SHEETS
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE	
C. E. Fisher	W. A. Swanson, Jr.	T. A. Lazzarich		Apr 6 1953	



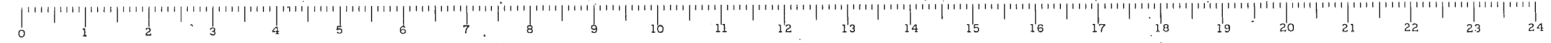
**BILL OF MATERIAL SUPERSTRUCTURE**

Bar	No.	Size	Length	Shape	
a	51	#9	20'-0"		
d1	22	#4	25'-6"		
b	48	#6	13'-0"		
b1	36	#4	13'-0"		
d	36	#5	2'-6"		
e	8	#5	24'-6"		
f	16	#4	2'-2"		
s	52	#4	7'-0"		
s1	52	#4	5'-0"		
Class X Concrete				Cu. Yds.	33.7
Handrail Concrete				Cu. Yds.	1.2
Reinforcement Bars				Lbs.	7,220
Masonry Removal				Cu. Yds.	10.0
Metal Handrail				Lin. Ft.	26
Name Plate				Each	One

SUPERSTRUCTURE  
S.B.I. RT. 2 SECTION 4-BY  
JACKSON COUNTY  
STATION 641+85

DESIGNED *C. E. Fisher*  
CHECKED *T. A. Lazzarich*  
DRAWN *W. A. Swanson, Jr.*  
APPROVED *T. A. Lazzarich*

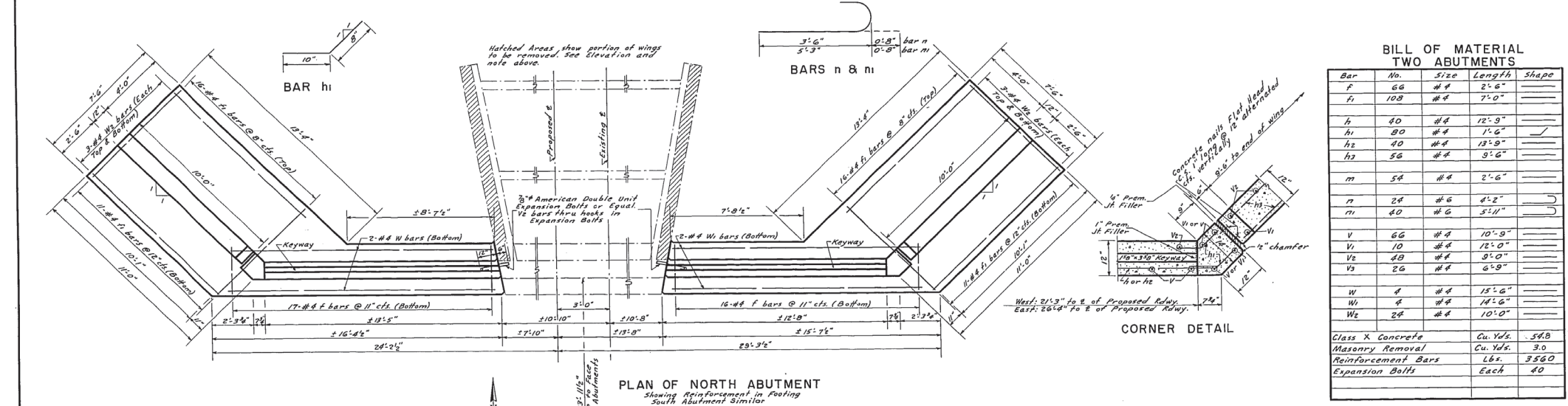
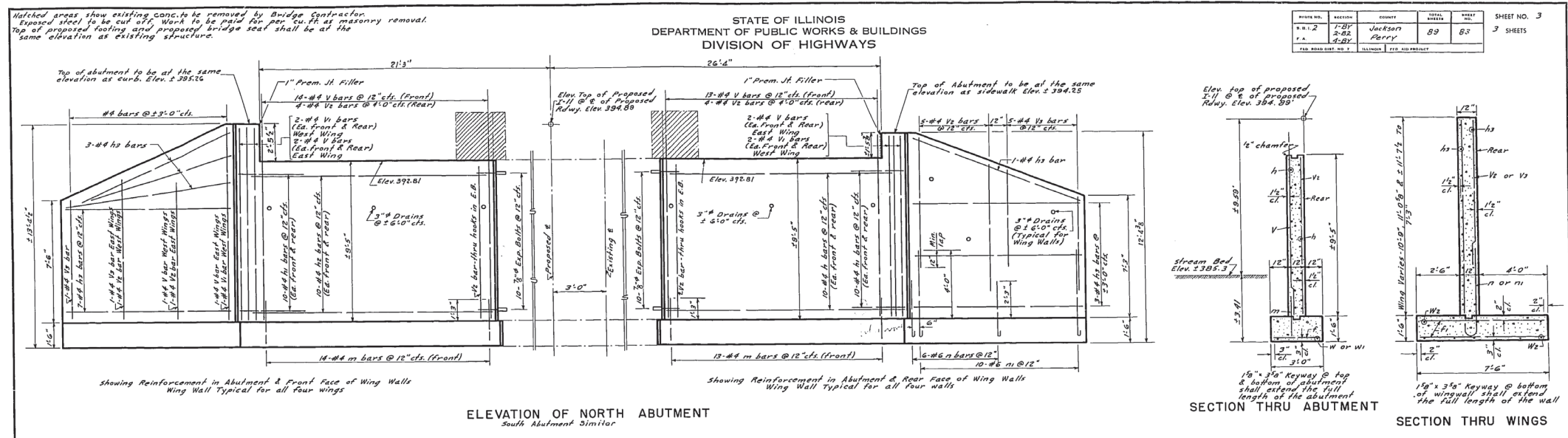
APR 6 1953  
EXAMINED *W. E. Hanson*  
PASSED *C. E. Fisher*  
APPROVED *T. A. Lazzarich*



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

PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
11-2	1-BY	Jackson	89	82
1-A	2-BY	Perry	89	82

3 SHEETS



BILL OF MATERIAL  
TWO ABUTMENTS

Bar	No.	Size	Length	Shape
F	66	#4	2'-6"	
F1	108	#4	7'-0"	
h	40	#4	12'-9"	
h1	40	#4	7'-6"	
h2	40	#4	12'-0"	
h3	56	#4	8'-6"	
m	54	#4	2'-6"	
n	24	#6	4'-2"	
n1	40	#6	5'-11"	
v	66	#4	10'-9"	
v1	10	#4	12'-0"	
v2	48	#4	8'-0"	
v3	26	#4	6'-9"	
w	4	#4	15'-6"	
w1	4	#4	14'-6"	
w2	24	#4	10'-0"	
Class X Concrete		Cu. Yds.	54.8	
Masonry Removal		Cu. Yds.	3.0	
Reinforcement Bars		Lbs.	3560	
Expansion Bolts		Each	40	

DESIGNED: *Walter C. Fisher*  
 CHECKED: *W. G. Raczak*  
 DRAWN: *W. A. Swanson Jr.*  
 CHECKED: *W. G. Raczak*

APR 6 1953  
 EXAMINED: *W. B. Hanson*  
 PASSED: *[Signature]*  
 APPROVED: *[Signature]*

SUBSTRUCTURE  
 S.B.I. RT. 2 SECTION 4-BY  
 JACKSON COUNTY  
 STATION 641+85

