

**STATE OF ILLINOIS**  
**DEPARTMENT OF PUBLIC WORKS AND BUILDINGS**  
**DIVISION OF HIGHWAYS**  
**PLANS FOR PROPOSED**  
**FEDERAL AID INTERSTATE HIGHWAY**

FAI-80  
 09-34  
 WILL  
 37

P.91-107-00

SCALES } PLAN 1 INCH 100 FT.  
 } PROFILE, HOR. 1 INCH 100 FT.  
 } PROFILE, VERT. 1 INCH 10 FT.  
 } CROSS SECTIONS 1 INCH 10 FT.

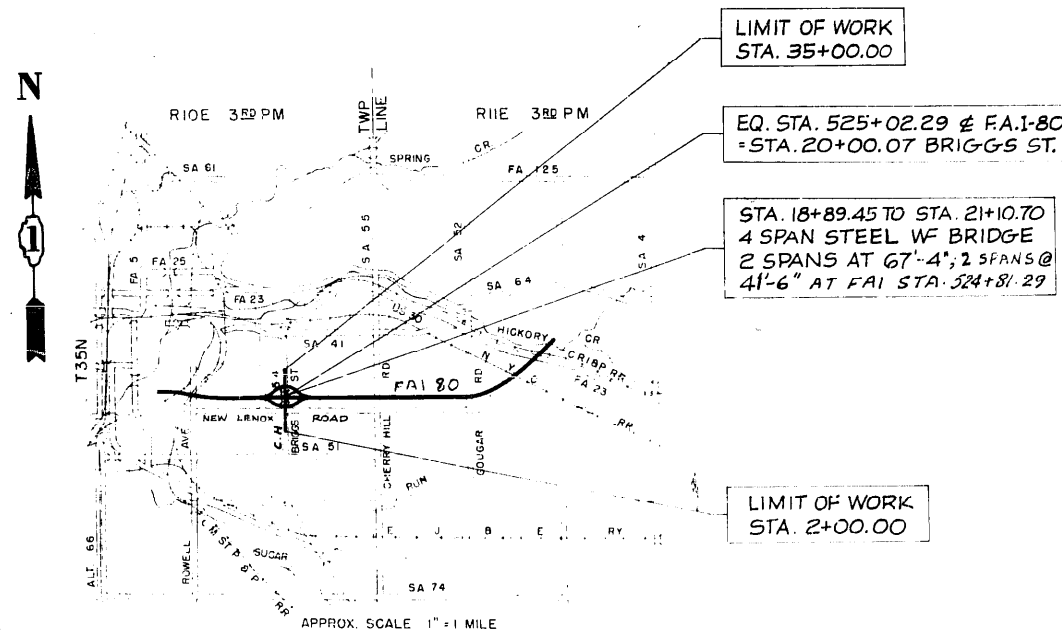
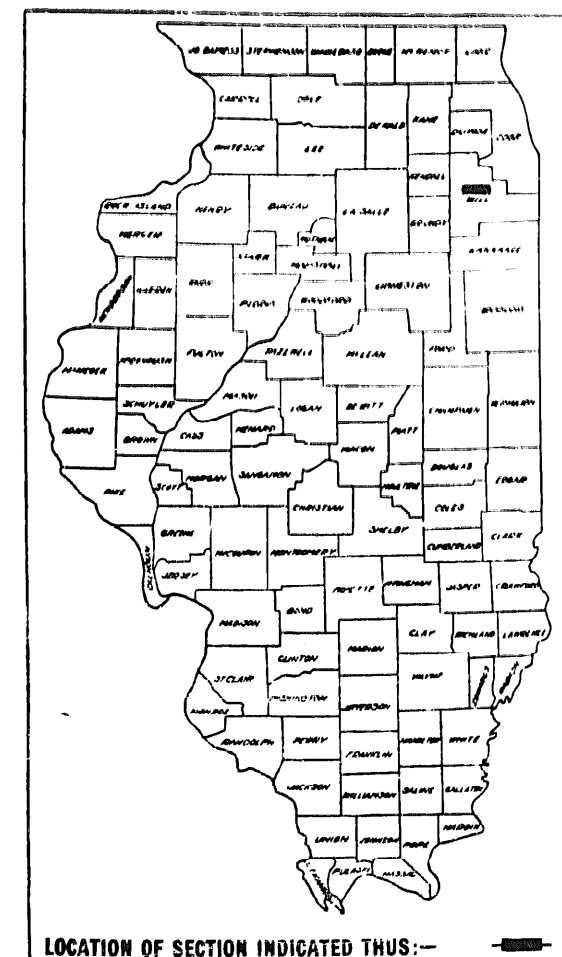
FA.I. ROUTE 80 SECTION 99-4-IHB  
 PROJECT I-80-4(42)136  
 WILL COUNTY

C-91-294-64

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\* INCLUDES SHEET 23A



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

SUBMITTED: \_\_\_\_\_

EXAMINED: *September 2, 1964*  
 \_\_\_\_\_ DISTRICT ENGINEER

PASSED: *September 2, 1964*  
 \_\_\_\_\_

APPROVED: *September 2, 1964*  
 \_\_\_\_\_

APPROVED: *September 2, 1964*  
 \_\_\_\_\_

SECTION 99-4-IHB BRIGGS ST.      GROSS LENGTH 3300 FT. = 0.625 MI.      NET LENGTH 3300 FT. = 0.625 MI.

PROJECT LENGTH = 0.0 MILES

PLANS PREPARED AND RECOMMENDED BY  
**BLAUVELT ENGINEERING CO.**  
 CONSULTING ENGINEERS  
 CRYSTAL LAKE, ILL. — NEW YORK, N.Y.

DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC SAFETY

APPROVED \_\_\_\_\_  
 DIVISION ENGINEER      DATE \_\_\_\_\_

CONTRACT NO. 23080

Bench Mark No 67: R.R. Spike in transformer pole,  
450' Rt Sta. 524+83,  
East Side Briggs St.  
Elevation 635.539  
No Existing Structure

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4-IHB	WILL	37	20
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT: 1-80-4(42)136		

SHEET NO. 1 OF 8 SHEETS

DESIGN STRESSES

Reinforced Concrete:  
 $f_c = 3500$  psi  
 $f_s = 20,000$  psi  
 $n = 10$   
 $f_c = 1400$  psi (except footings)  
 $f_c = 1000$  psi (footings)  
 $V_c = 90$  psi (except footings)  
 $V_c = 75$  psi (footings)

Structural Steel:  
 $f_s = 20,000$  psi

Maximum Bearing Pressure:  
 2.5 Tons per square foot

Loading:  
 H20-S16

GENERAL NOTES

STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A-36.

RIVETS SHALL BE 3/4"  $\phi$  WITH 13/16"  $\phi$  OPEN HOLES UNLESS NOTED.

CLASS X CONCRETE SHALL BE USED THROUGHOUT. COARSE AGGREGATE USED IN PARAPETS AND END POSTS SHALL BE FREE OF CHERT, FLINT, LIMONITE, LIGNITE AND SOFT SANDSTONE.

THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATIONS.

ALL WELDING SHALL COMPLY WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES, OF THE AMERICAN WELDING SOCIETY.

ALL ROCKERS, BOLSTERS, BEARING PLATES, LEAD PLATES, PINTLES, AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 51.15 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.

ANCHOR BOLTS SHALL BE SET BEFORE CONNECTING DIAPHRAGMS OVER SUPPORT. SPACE REINFORCING TO MISS ANCHOR BOLTS.

EXPANSION GUARDS AND PLATES SHALL BE FABRICATED AND ERRECTED IN ACCORDANCE WITH ARTICLE 51.13 (d) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.

EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT. SEE ARTICLES 56.1 TO 56.5 INCLUSIVE OF THE STANDARD SPECIFICATIONS.

ALL SURFACES OF EXPANSION GUARDS INACCESSIBLE AFTER ERECTION SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT. THE 3/4"  $\phi$  WELDED STUDS SHALL NOT BE PAINTED.

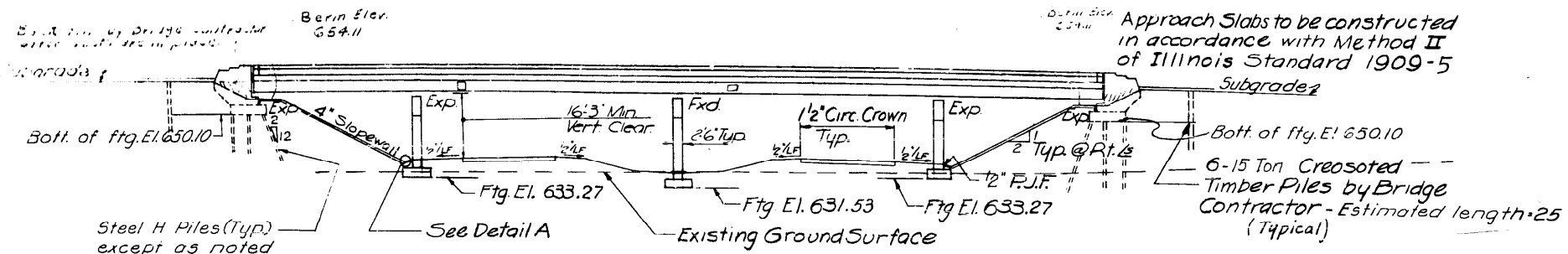
THE CONTRACTOR SHALL DRIVE TWO (2) TEST PILES IN PERMANENT LOCATIONS AS SHOWN ON THE PLANS, BEFORE ORDERING REMAINDER OF PILES.

NO ROCK LARGER THAN 3" SHALL BE PLACED IN FILLS IN THE AREA WHERE PILES ARE TO BE DRIVEN.

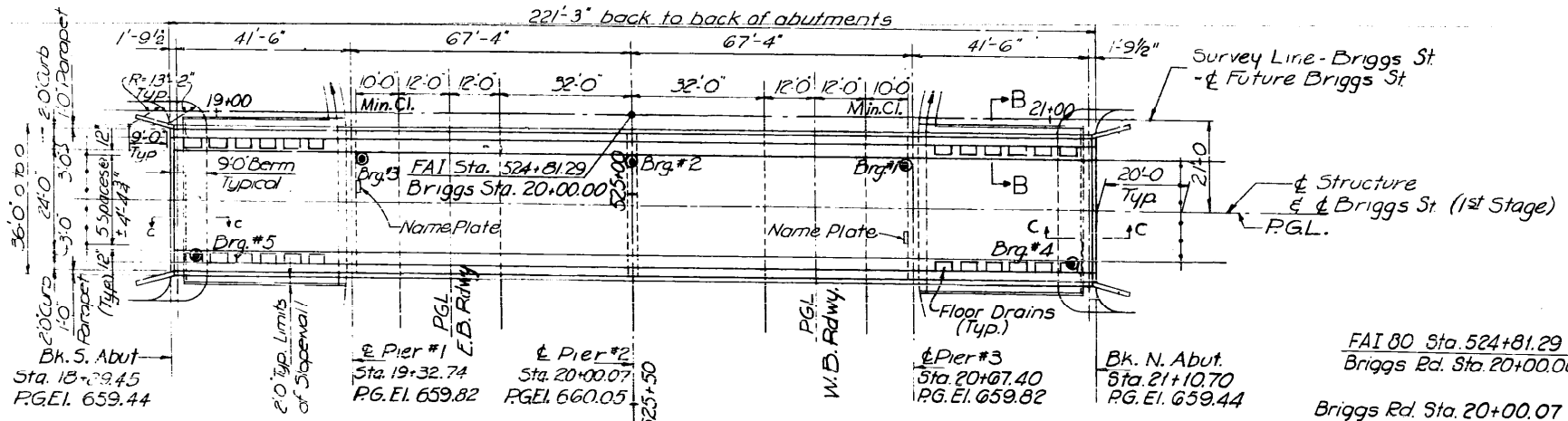
STEEL FOR PILES SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A7.

ALL STEEL BEARING PILES ARE TO BE DRIVEN TO REFUSAL.

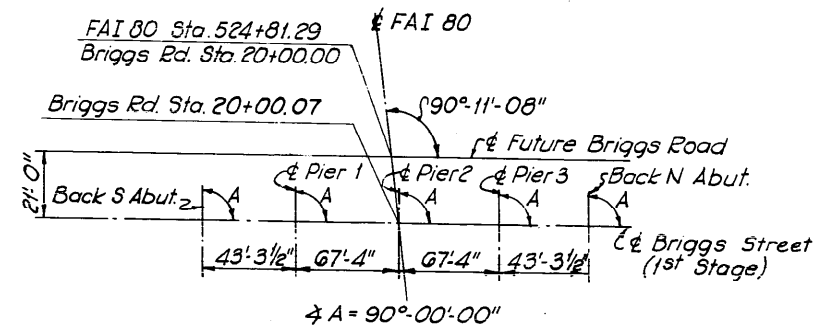
EXCAVATION FOR SLOPE WALL SHALL BE INCIDENTAL TO THE COST OF THE SLOPE WALL.



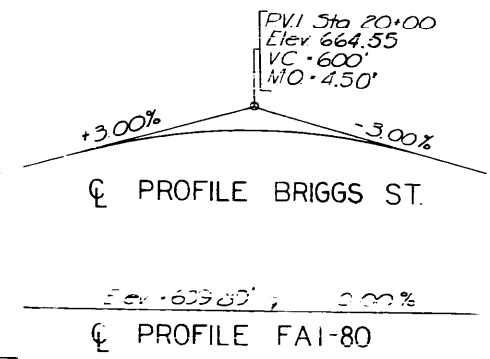
ELEVATION



PLAN



ABUTMENT AND PIER LAYOUT



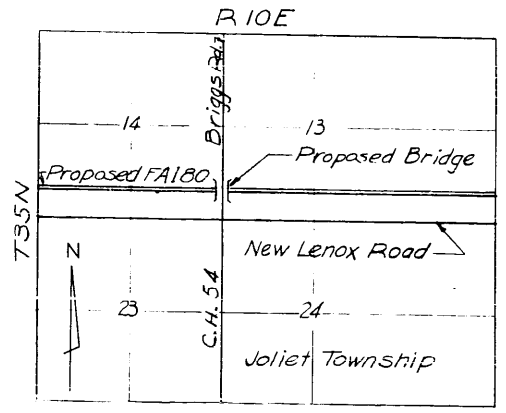
PROFILE BRIGGS ST.

PROFILE FAI-80

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class A Excavation for Structures	Cu. Yd.		106	106
Class X Concrete	Cu. Yd.	254.1	251.6	505.7
Furnishing & Erecting Structural Steel	Pound	205,270		205,270
Reinforcement Bars	Pound	52,560	22,480	75,040
Furnishing Creosoted Piles	Lin. Ft.		300	300
Driving Timber Piles	Lin. Ft.		300	300
Furnishing Steel Piles 10BP42	Lin. Ft.		1140	1140
Test Pile Steel 10BP42	Each		2	2
Driving Steel Piles	Lin. Ft.		1140	1140
Name Plates	Each		2	2
Sloped Wall 4"	Sq. Yd.		39.7	39.7
Aluminum Handrail	Lin. Ft.	439		439
Protective Coat	Sq. Yd.	997		997
Bridge Seat Sealant*	LS.			1

\* Abut. Only



LOCATION SKETCH  
Not to Scale

GENERAL PLAN AND ELEVATION  
BRIGGS STREET OVER F.A.I. 80

F.A.I. 80 STA. 524+81.29

FAI ROUTE 80 SECTION 99-4-IHB PROJECT 1-80-4(42)136  
 Scale: NO SCALE WILL COUNTY Date: MAY 29, 1962  
 BLAUVELT ENGINEERING CO CONSULTING ENGINEERS  
 WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

⊙ Denotes Borings  
For Logs see sheet 27

Welded Wire fabric  
6x6" Mesh - #4 Wires  
Wt. 58 Lbs/100 Sq. Ft.  
Cost to be included in  
cost of 4" Sloped wall  
Cut off wall is included  
in quantity of sloped wall

SECTION 3-B

DESIGNED	R.H.W.
CHECKED	B.M.
DRAWN	J.P.
CHECKED	B.M.

Prepared and recommended  
  
 Blauvelt Engr Co.  
 Structural Engineer  
 #81-2206

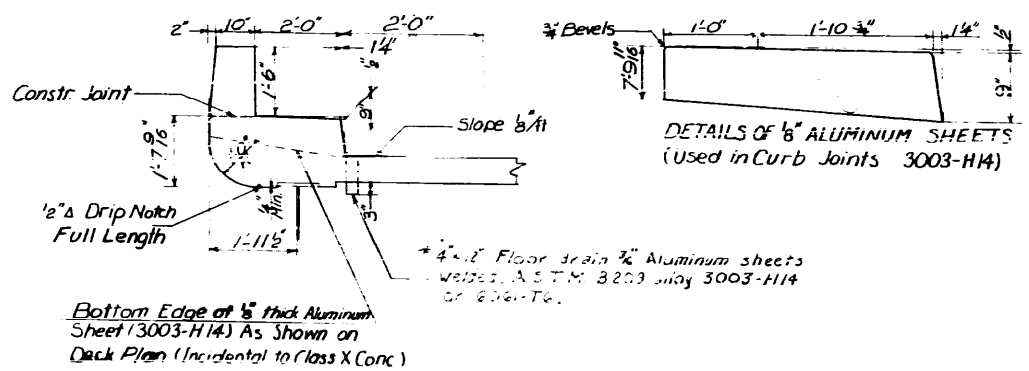
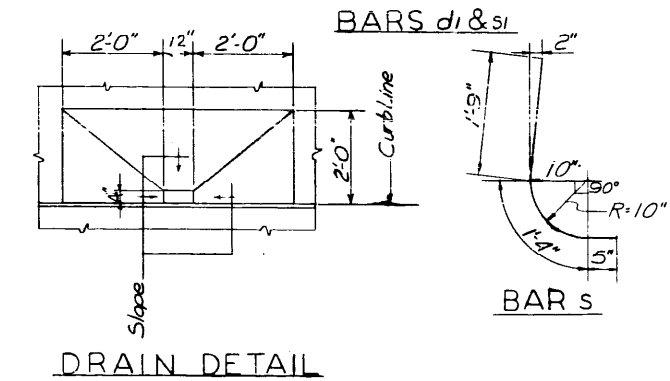
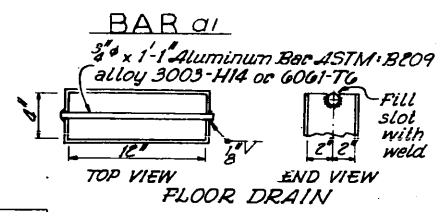
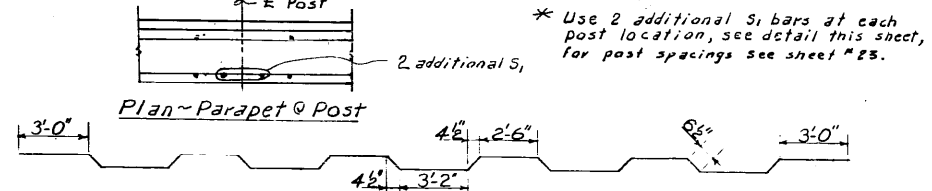
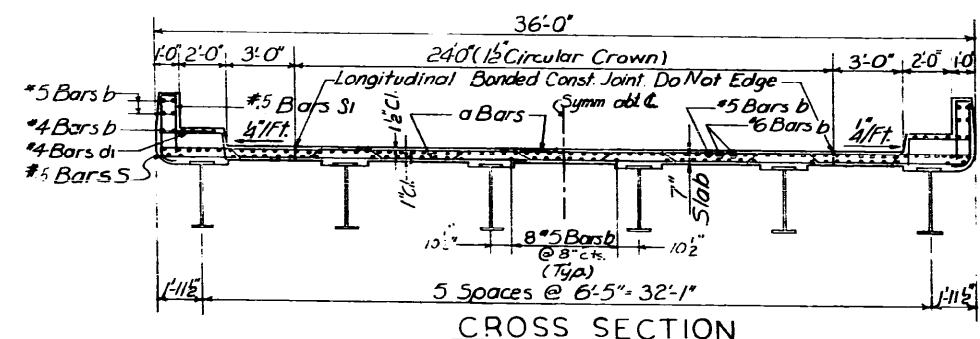
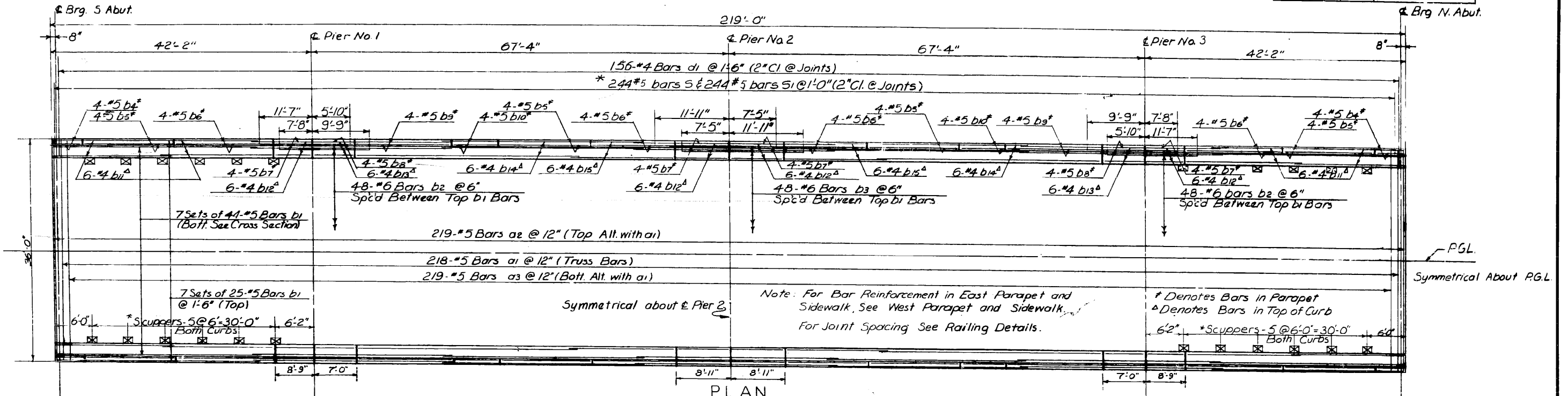
STATION 524+81.29  
 BUILT 196 BY  
 STATE OF ILLINOIS  
 F.A.I. RT. 80 SEC. 99-4-IHB  
 FA PROJ. 1-80-4(42)  
 LOADING H20-S16  
 See Standard 2113-1

LETTERING FOR NAME PLATE

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A.I. 80	99-4-118	WILL	37	21
FED. ROAD DIST. NO. 1	ILLINOIS	PROJECT		

SHEET NO. 2 OF 8 SHEETS



After all structural steel has been erected elevations of the top flanges of the beams shall be taken at intervals shown on DL Deflection Diagram. From these elevations subtract the increment of deflections for these points determined from the DL Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations minus floor thickness equals fillet heights above top of beams

METHOD OF DETERMINING FILLET HEIGHT "f"

ELEVATIONS - TOP OF SLAB\*\*

Sta.	PT	1E23	2E22	3E21	4E20	5E19	6E18	7E17	8E16	9E15	10E14	11E13	12
A & F		659.25	659.35	659.45	659.53	659.61	659.68	659.73	659.77	659.80	659.83	659.84	659.84
B & E		659.38	659.48	659.58	659.66	659.74	659.81	659.86	659.90	659.93	659.95	659.97	659.97
C & D		659.45	659.55	659.65	659.73	659.81	659.88	659.93	659.97	660.00	660.03	660.04	660.04

\*\*Fascia stringer elevations shown is that of the projection of top of slab along its cross slope.  
Elevations are not adjusted for Dead Load Deflection  
See Sheet No. 22 for location of points.

BILL OF MATERIALS

Class X Concrete	Cu. Yds.	254.1
Reinforcement Bars	Lbs.	52,560
Structural Steel*	Lbs.	205,270

\*Structural steel includes weight of rockers, bolsters bearing plates, lead plates, pintles and anchor bolts.  
Estimated Weight = 8250 lbs.

SLAB PLAN AND CROSS SECTION  
BRIGGS STREET OVER F.A.I. 80

F.A.I. 80 STA. 524 + 81.29

FAI ROUTE 80  
SECTION 99-4-118  
Scale: NO SCALE

PROJECT I-80-4(42)136  
WILL COUNTY  
Date: MAY 29, 1962

BLAUVELT ENGINEERING CO.  
CONSULTING ENGINEERS

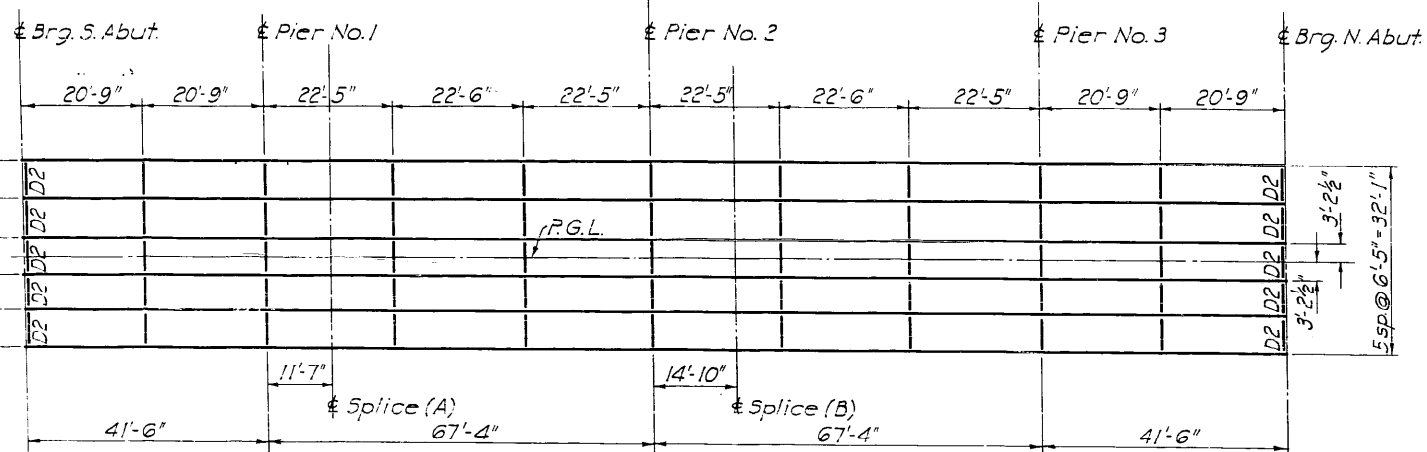
Cost of furnishing and installing drains and aluminum sheets shall be incidental to the contract.

STATE OF ILLINOIS  
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DIVISION OF HIGHWAYS

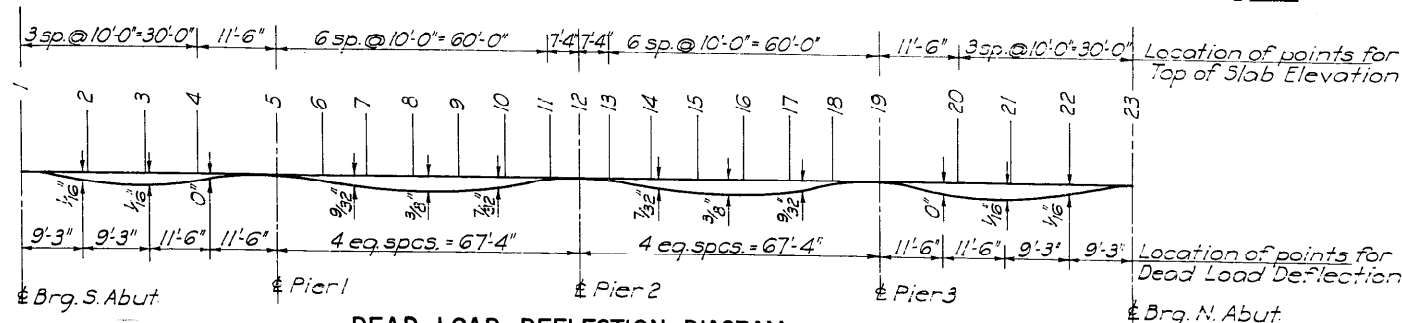
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	99-4-1HB	WILL	37	22
FED. ROAD DIST. NO. 1		ILLINOIS	PROJECT	

SHEET NO. 22 OF 37 SHEETS

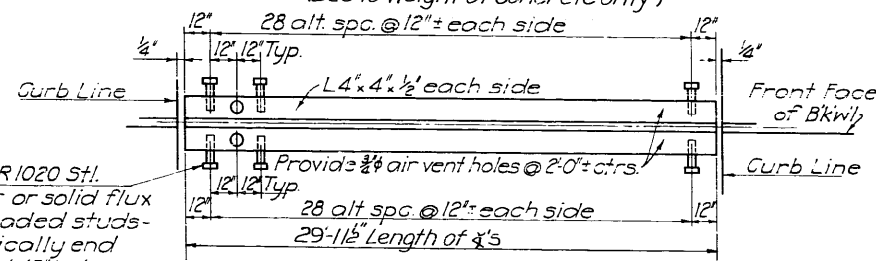
Notes: All Diaphragms to be D1 unless noted  
All Stringers to be 33WF130.  
For Cover Pls at Pier 2 (only) see detail.  
All dimensions are measured in a horizontal plane.



FRAMING PLAN



DEAD LOAD DEFLECTION DIAGRAM  
(Due to weight of Concrete only)



ANGLE GUARD DETAILS

Angles shall be held securely in place while pouring concrete with 3/8" bolts in 1/2" holes set on gage line at 12" ctrs. All bolts shall be burned, sawed or clipped flush with back of angle after forms are removed.

3/4" x 8" CR 1020 Stl. Granular or solid flux filled headed studs - automatically end welded at 12" ctrs.

AS AWARDED  
TOP OF STRINGER ELEVATIONS

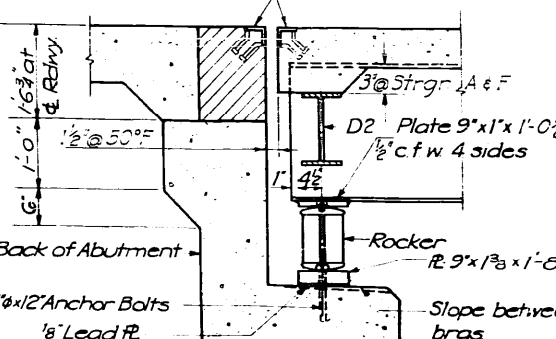
Sta.	1+23	5+19	Splice A	12	Splice B
A & F	658.61	658.98	659.05	659.21	659.19
B & E	658.74	659.11	659.18	659.33	659.32
C & D	658.81	659.18	659.25	659.41	659.39

Note: Top of stringer elevations are at top of top flange of stringer, exclusive of deflections.

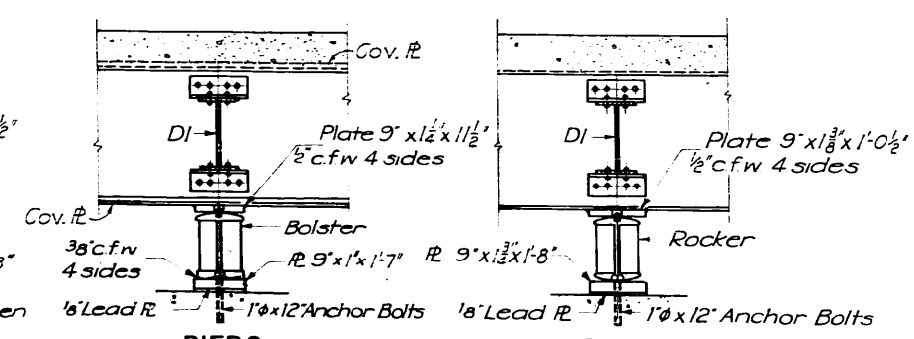
For Top of Slab Elevations see Sh. 21

AS FABRICATED & BUILT  
TOP OF STRINGER ELEVATIONS

Sta.	1+23	5	Splice A	12	Splice B	17
A & F	658.61	659.15	659.05	659.16	659.19	658.87
B & E	658.74	659.28	659.18	659.29	659.32	659.00
C & D	658.81	659.15	659.25	659.36	659.37	659.07

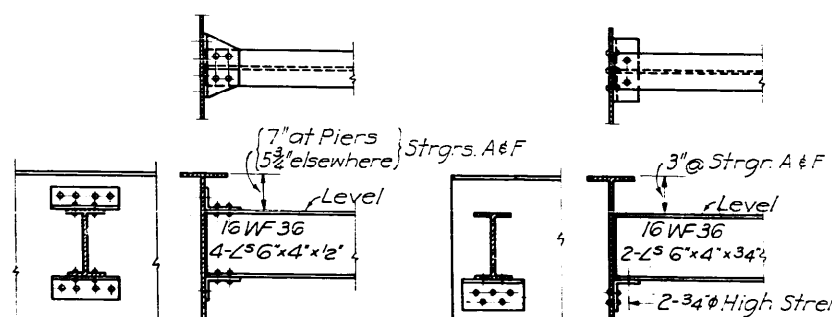


SECTION AT ABUTMENT



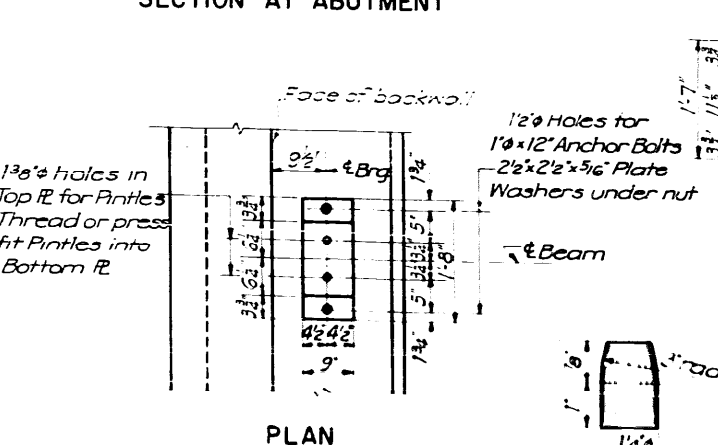
PIER 2

PIER 1&3

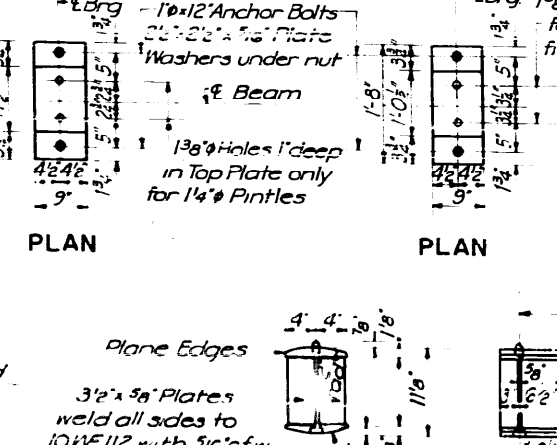


DIAPHRAGM D1  
Required 45

DIAPHRAGM D2  
Required 10

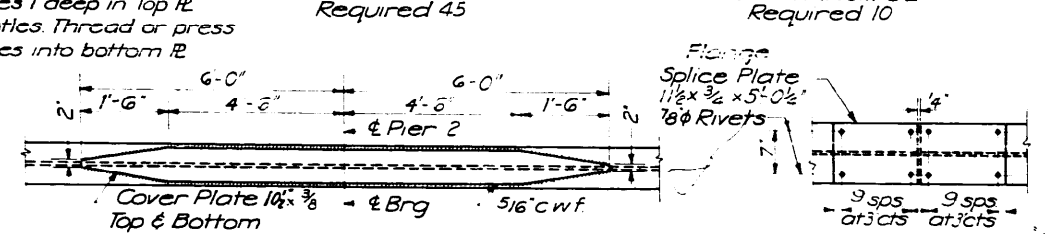


PLAN



PLAN

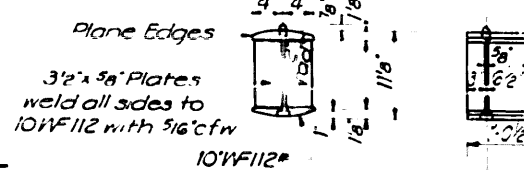
PLAN



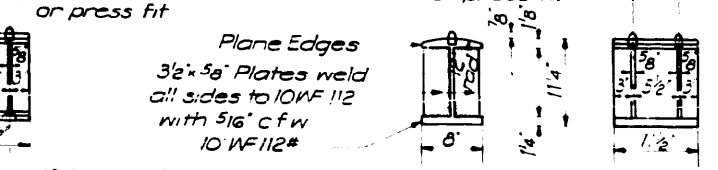
DETAIL OF COVER PLATES



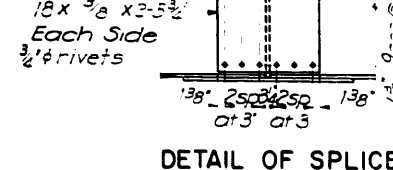
DETAIL OF PINTLE



DETAIL OF BEARING  
AT PIER 1&3  
& AT ABUTMENTS



DETAIL OF BEARING  
AT PIER 2



DETAIL OF SPLICE

Note: All rivet holes to be reamed with all parts assembled to probe and all parts match marked.

FRAMING PLAN & STEEL DETAILS  
BRIGGS STREET OVER F.A.I. 80

F.A.I. 80 STA. 524 + 81.29

FAI ROUTE 80 PROJECT I-80-4(42)136  
SECTION 99-4-1HB WILL COUNTY  
Scale NO SCALE Date MAY 29, 1962  
BLAUVELT ENGINEERING CO  
CONSULTING ENGINEERS  
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

Rev 4-20-65 Revised Top of Beam Elevations as a result of fabrication changes. Note in Blauvelt's letter April 14, 1965. W.L.P.

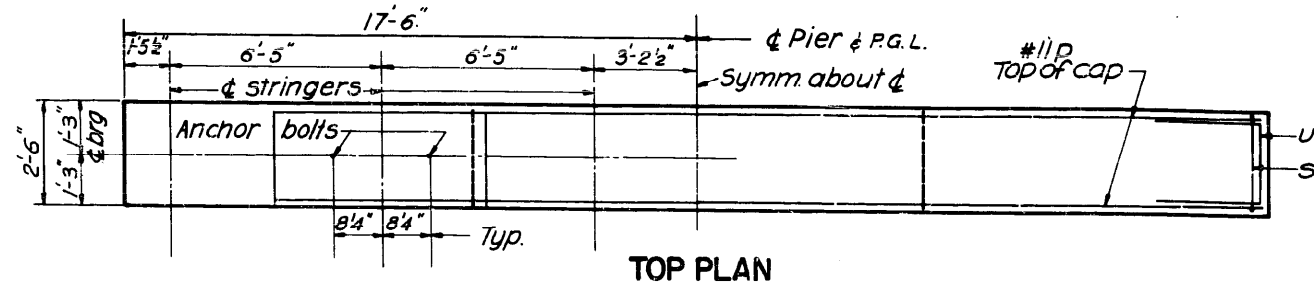
B 564 J.M.J. Rev 9-5-10'0" R to 102'-3" - 12'0"

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

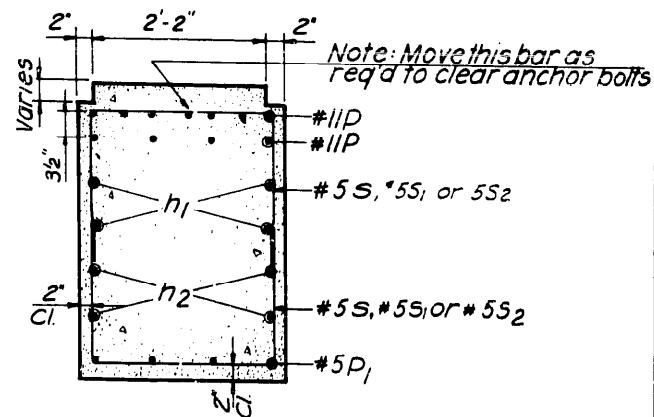
ROUTE NO.	SECTION	JOB	TOTAL SHEETS	SHEET NO.	SHEET NO. OF SHEETS
F.A.I. 80	99-4-1B	WILL	37	24	8
PER ROAD DIST NO. 7	ILLINOIS	PROJECT			

P.G.L. Pier 1 Sta. 19+32.67 P.G.L. El. 659.82

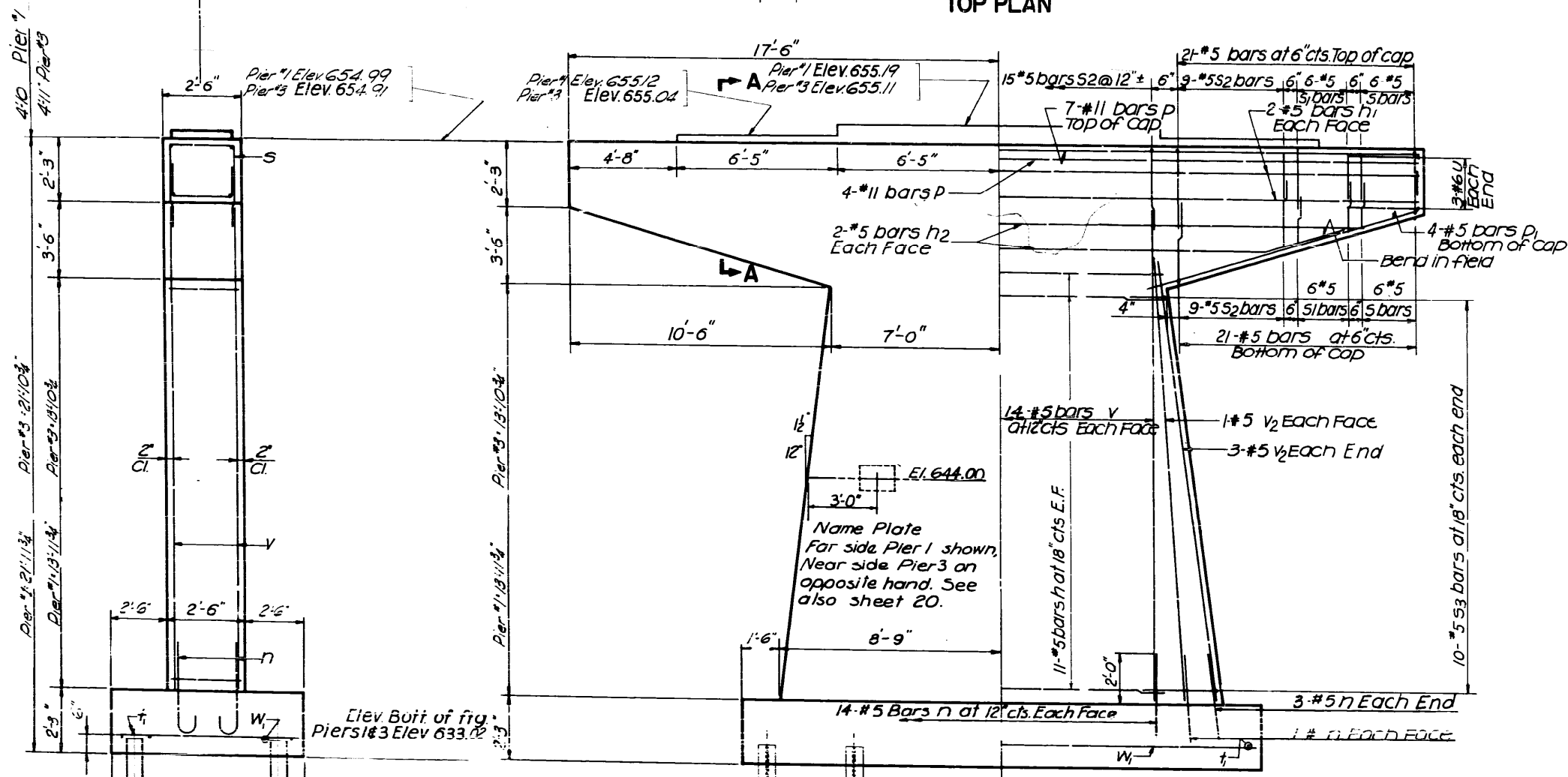
P.G.L. Pier 3 Sta. 20+67.33 P.G.L. El. 659.82



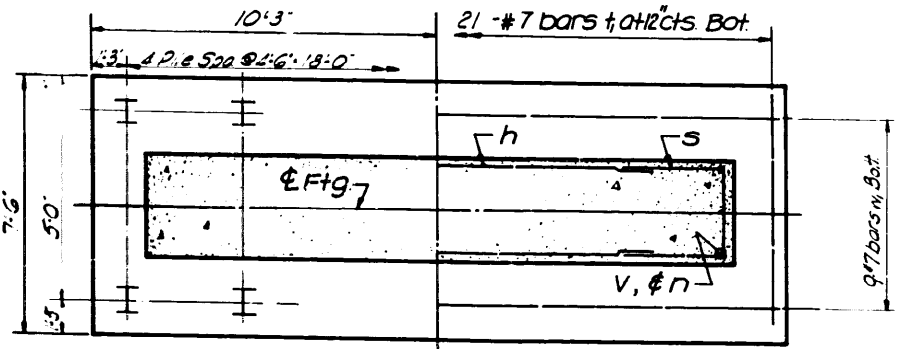
TOP PLAN



SECTION A-A

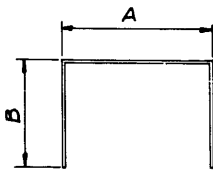


ELEVATION



FOOTING PLAN

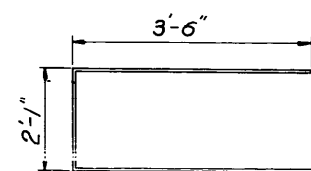
Ahead Stationing



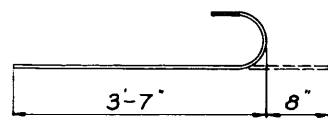
s BARS

A & B DIMENSIONS

Bar	A	B
S	2'-2"	1'-11"
S1	2'-2"	2'-5"
S2	2'-2"	3'-2"
S3	2'-2"	2'-11"



u BARS



n BARS

PIERS 1&3  
BILL OF MATERIAL

Bar No.	SIZE	Length	SHAPE
h	#5	13'-6"	—
h1	#5	34'-8"	—
h2	#5	30'-0"	—
n	#5	4'-3"	—
p	#11	34'-8"	—
D1	#5	11'-9"	—
S	#5	6'-0"	□
S1	#5	7'-0"	□
S2	#5	8'-6"	□
S3	#5	8'-0"	□
+	#7	7'-3"	—
U	#6	9'-1"	□
V	#5	17'-6"	—
V2	#5	15'-6"	—
W	#7	20'-0"	—
CLASS X CONCRETE CU. YD. 95.0			
REINF. BARS LBS. 10,520			
STEEL 103P42 PILES LBS. 550			

AS BUILT  
PIERS 1&3

BRIGGS STREET OVER F.A.I. 80

F.A.I. 80 STA. 524 + 81.29

F.A.I. ROUTE 80 PROJECT 1-80-4(42)136  
SECTION 99-4-1HB WILL COUNTY  
Scale: NO SCALE Date: MAY 29, 1962  
BLAUVELT ENGINEERING CO.  
CONSULTING ENGINEERS  
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

PILE DATA  
Type Steel 103P42  
Drive to Refusal  
Estimated Length Pier #1 28 ft, Pier #3 27 ft  
No Req'd = 10 (each pier)

DESIGNED	B.M.
CHECKED	L.D.
DRAWN	S.C.
CHECKED	T.G.

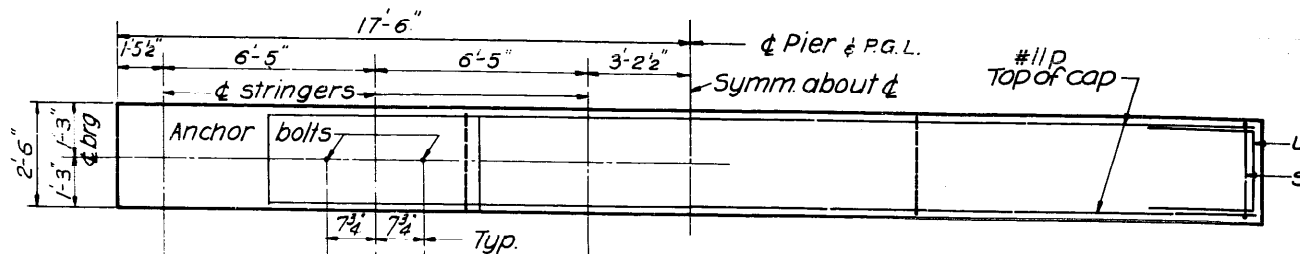
Note: All edges shall have standard 3" chamfers except footings

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

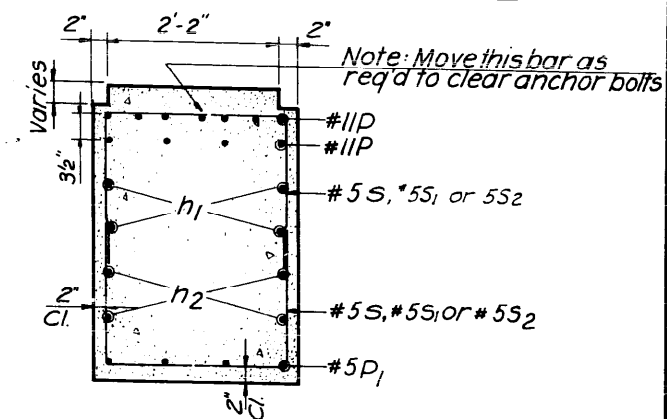
PGL Per 2 52020000 PGL E166005

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	99-4-118	WILL	37	24
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

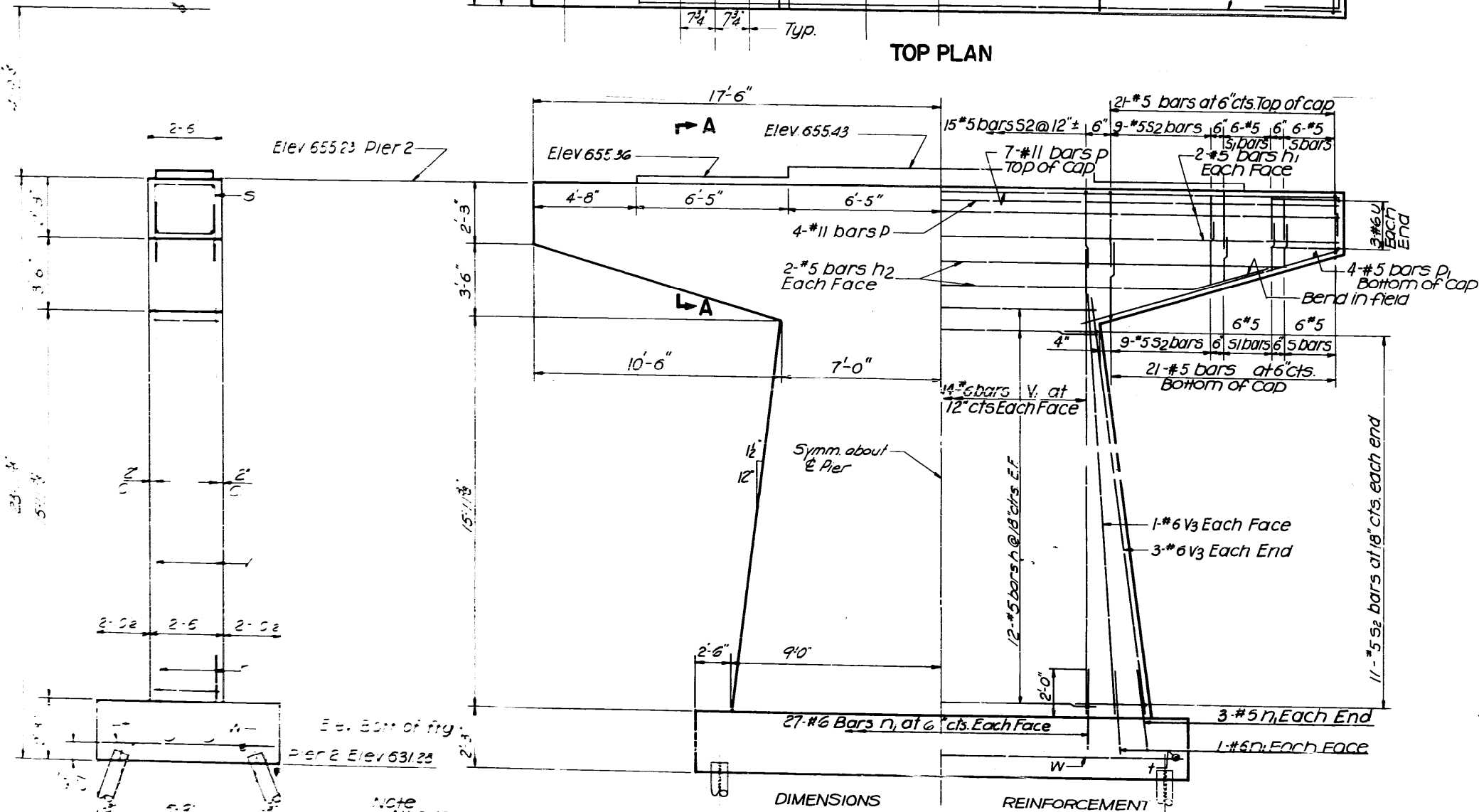
SHEET NO. 5 8  
8 SHEETS



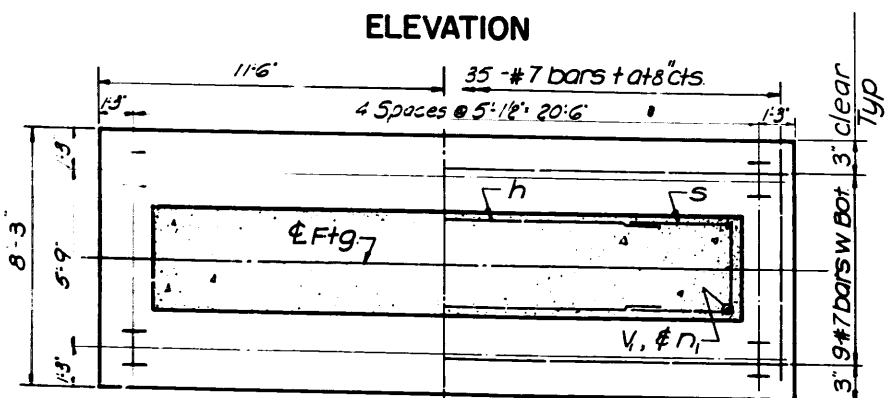
TOP PLAN



SECTION A-A

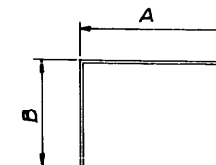


ELEVATION



FOOTING PLAN

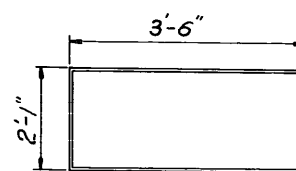
Along stationing



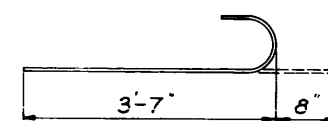
s BARS

A & B DIMENSIONS

Bar	A	B
S	2'-2"	1'-11"
S1	2'-2"	2'-5"
S2	2'-2"	3'-2"



u BARS



n BARS

PILE DATA

Type: Steel (OBP42)  
Drive to Refusal  
Est Length 27'  
No Required 10'

PIER 2  
BILL OF MATERIAL

Bar No.	size	Length	Shape
h	#5	13'-6"	—
h1	#5	34'-8"	—
h2	#5	30'-0"	—
h1	#6	4'-3"	—
p	#11	34'-8"	—
p1	#5	11'-9"	—
S	#5	6'-0"	□
S1	#5	7'-0"	□
S2	#5	8'-6"	□
f	#7	7'-9"	—
U	#6	9'-1"	□
V1	#6	19'-6"	—
V3	#6	17'-6"	—
w	#1	22'-6"	—
class x concrete	CU.Yd	55.0	
Reinf. Bars	lbs	6240	
Steel Piles (OBP42)	Lin. Ft.	270	

END VIEW

Note: All edges shall have standard 3" chamfers except footings

Per 2 Elev 631.25

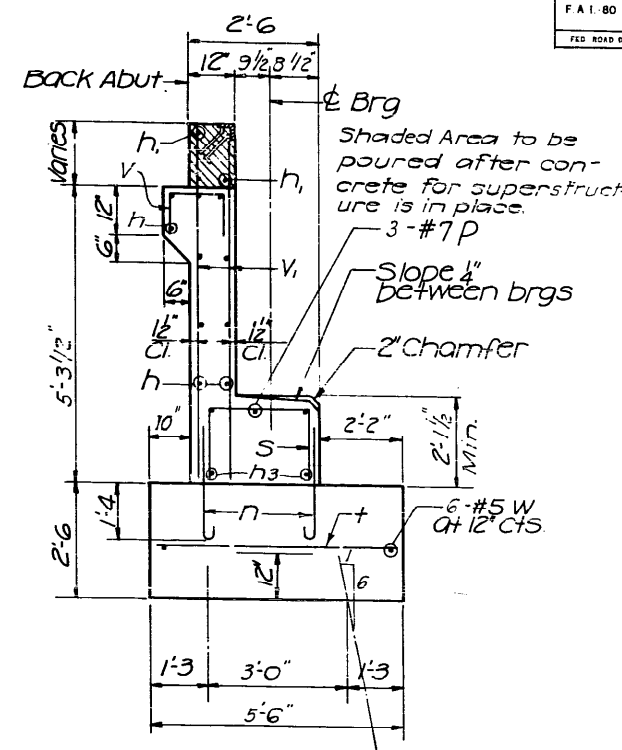
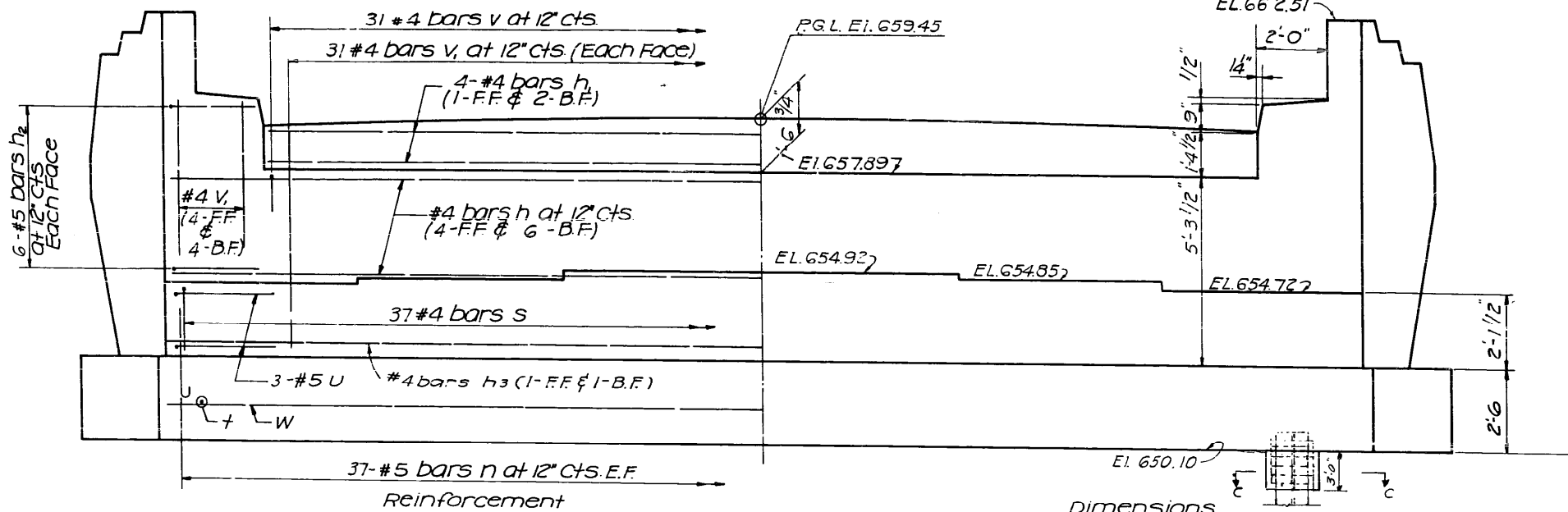
DESIGNED	B V
CHECKED	J C
DRAWN	S C
CHECKED	J C

AS BUILT  
PIER 2  
BRIGGS STREET OVER F.A.I. 80  
F.A.I. 80 STA. 524+81.29

F.A.I. ROUTE 80 SECTION 99-4-118 PROJECT 1-80-4(42)136  
WILL COUNTY  
Scale: NO SCALE Date: MAY 29, 1962  
BLAUVELT ENGINEERING CO.  
CONSULTING ENGINEERS  
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. OF SHEETS
F.A.I. 80	99-4-1HB	WILL	37	25	8
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT			



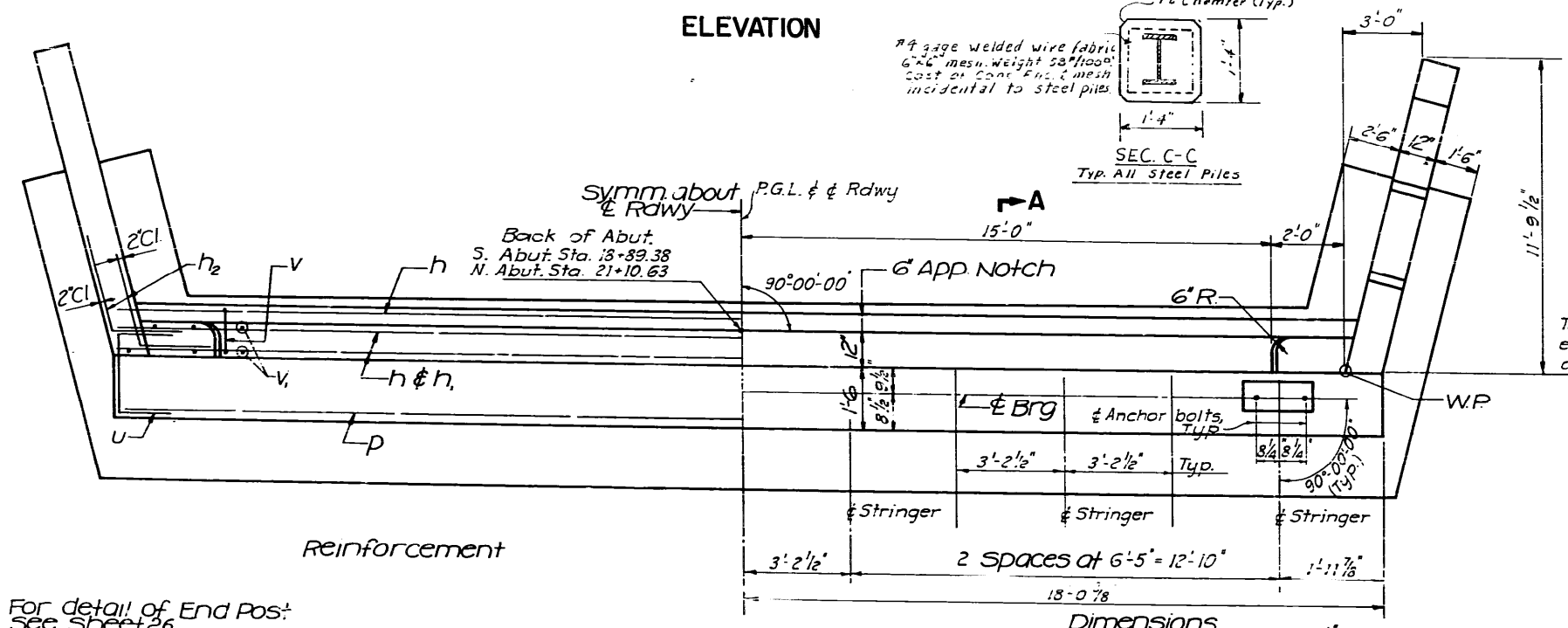
N & S ABUTMENTS  
BAR LIST

Bar	NO	Size	Lgth	Shape
n	20	#4	35'-3"	—
n <sub>1</sub>	6	#4	29'-9"	—
h <sub>2</sub>	48	#5	4'-9"	⌒
h <sub>3</sub>	4	#4	35'-9"	—
n	148	#5	3'-3"	⌒
n <sub>1</sub>	56	#5	4'-0"	⌒
p	6	#7	35'-9"	—
s	74	#4	5'-11"	⌒
t	74	#5	5'-0"	—
t	43	#5	4'-6"	—
u	12	#5	5'-2"	⌒
v	62	#4	2'-9"	⌒
v <sub>1</sub>	156	#4	6'-6"	—
w	12	#5	35'-0"	—
w <sub>1</sub>	20	#5	10'-9"	—

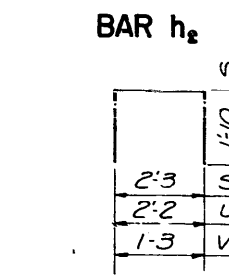
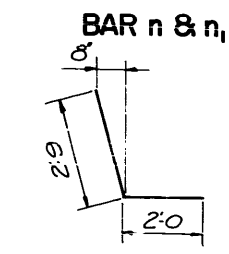
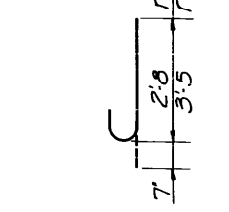
N & S ABUTMENTS  
BILL OF MATERIAL

Item	UNIT	QUAN
Class X Concrete	CU YDS	94.8
Reinforcement Bars	LBS	5660
10 BP 42 Piles	Lin. Ft.	1,140
Test Piles *	Each	2

Note: Bill of Material includes reinforcement and Class X concrete for End Posts  
\* 1 Test pile for each abutment



SECTION A-A



PILE DATA

TYPE: 10 BP 42  
CAPACITY: Rel. 321  
EST. LENGTH: 50 Feet N. Abut. 45 Feet S. Abut.  
NO. REQ'D: 13 ea. Abut., 26 Total (Includes 2 test piles).  
↑ indicates battered pile.

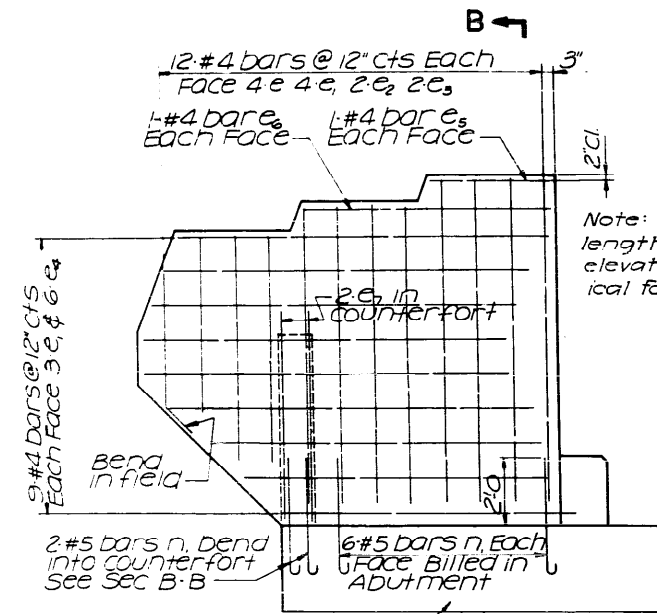
ABUTMENTS  
BRIGGS STREET OVER F.A.I. 80

F.A.I. 80 STA. 524+81.29  
F.A.I. ROUTE 80 SECTION 99-4-1HB PROJECT 1-80-4(42) 136  
WILL COUNTY  
DATE MAY 29, 1962  
BLAUVELT ENGINEERING CO.  
CONSULTING ENGINEERS  
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

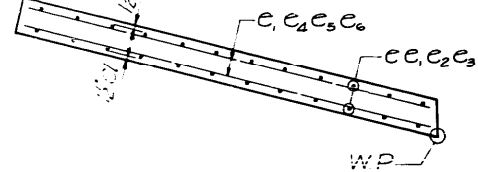
DESIGNED	B.M.
CHECKED	T.G.
DRAWN	SEF
CHECKED	T.G.

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

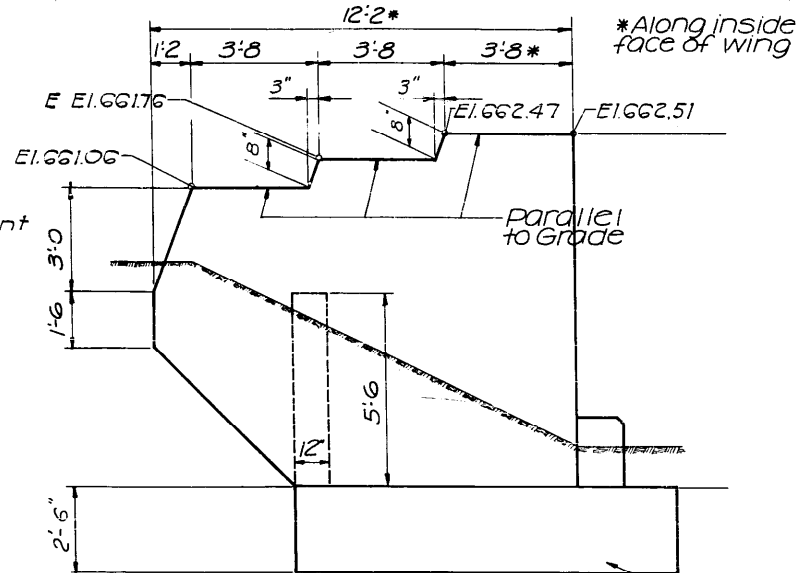
ROUTE NO. 80	SECTION 99-4-1HB	COUNTY WILL	TOTAL SHEETS 37	SHEET NO. 26	SHEET NO. 7 OF 8 SHEETS
F.A.I. 80	99-4-1HB	WILL	37	26	
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT			



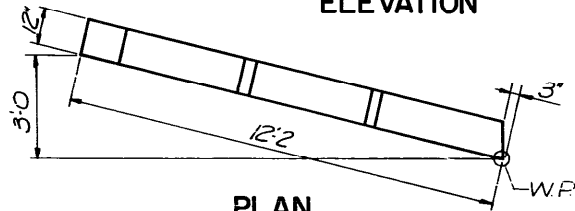
See abutment drawing for footing reinforcement



PLAN

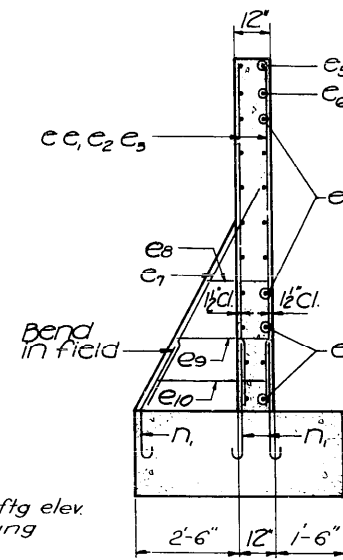


ELEVATION



PLAN

For piles & Bottom of ftg elev. see abutment drawing

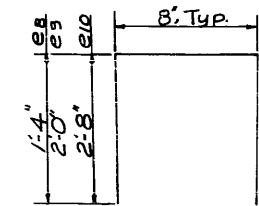


SECTION B-B

ONE END POST  
BILL OF MATERIAL

Bar	No.	Size	Lnth	Shape
e	8	#4	9-3	—
e1	14	#4	8-6	—
e2	4	#4	6-6	—
e3	4	#4	5-0	—
e4	12	#4	10-6	—
e5	2	#4	3-6	—
e6	2	#4	7-0	—
e7	2	#5	7-0	—
e8	1	#4	3-2	□
e9	1	#4	4-6	□
e10	1	#4	5-10	□
* Reinforcement bars				lbs 280

\* Included in Quantity on Sheet 25



BARS e8, e9 & e10

DESIGNED	TG
CHECKED	BM
DRAWN	SEF
CHECKED	SY

ABUTMENT DETAILS  
BRIGGS STREET OVER F.A.I. 80

F.A.I. 80 STA. 524 + 81.29

F.A.I. ROUTE 80 PROJECT 1-80-4(42)12-  
SECTION 99-4-1HB WILL COUNTY  
Scale NO SCALE Date MAY 29, 1962

BLAUVELT ENGINEERING CO  
CONSULTING ENGINEERS  
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.