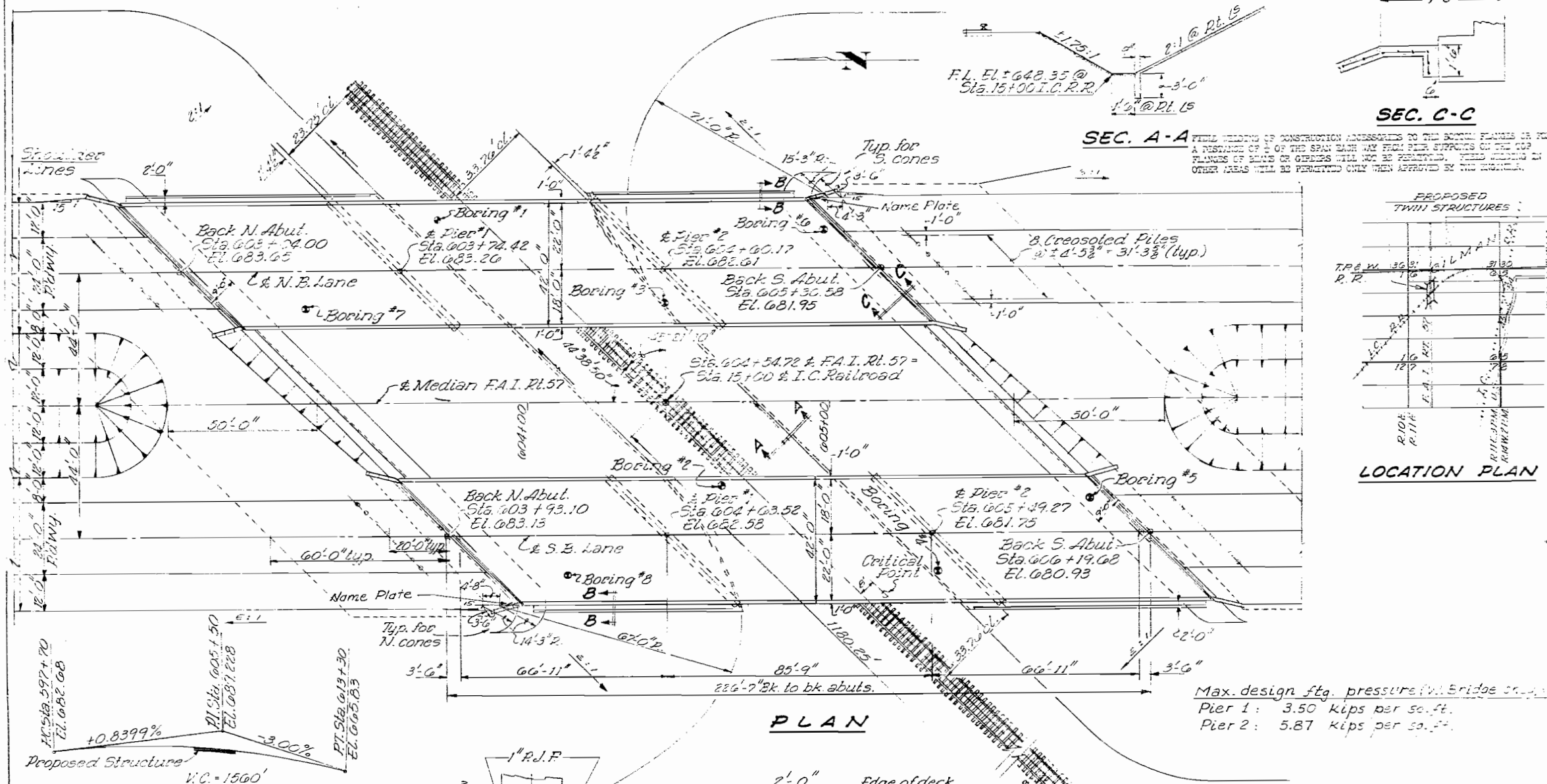
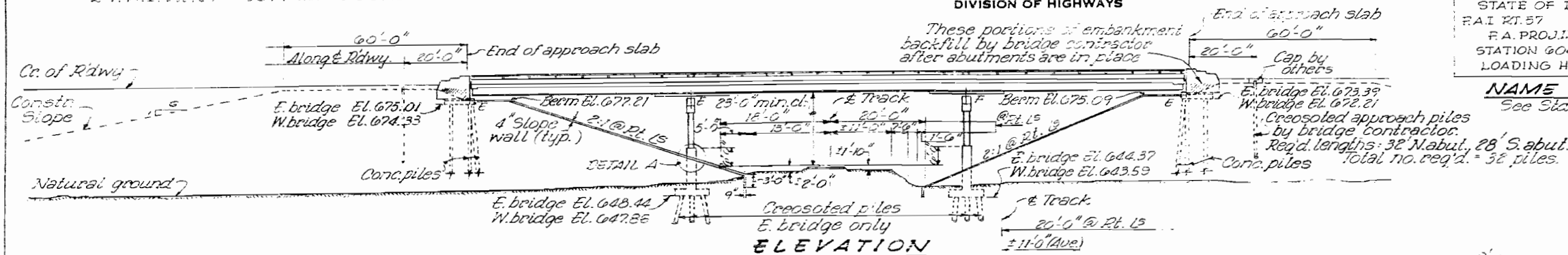
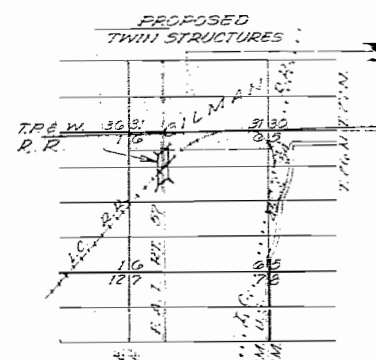


SEC. C-C



LOCATION PLAN

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end posts must be free of chert, flint, iron ore, lignite and soft sandstone. The concrete floor slab shall be finished in accordance with Art. 51.9 of the Standard Specifications.

Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58 # per 100 Sq Ft.

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

All structural steel shall conform to A.S.T.M. Designation A-36
Bolts $\frac{3}{4}$ " ϕ . Open Holes $\frac{1}{2}$ " ϕ , unless otherwise noted

Anchor bolts shall be set before fastening diaphragms over supports.

Exposed surfaces of the expansion devices, inaccessible after erection, shall receive two shop coats of red lead paint. All other surfaces shall be given one shop coat of red lead paint. Anchor studs shall not be painted.

Expansion devices are included in the quantity of structural steel. Est. weight = 5,300 lbs.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 561 to 565 inclusive of the Standard Specifications.

Concrete piles at abutments shall be driven in holes prepared in the embankment in accordance with Article 60.9 (c) of the Standard Specifications.

The contractor shall drive the first tie fast piles one end of the first segment fast to the East Point and South segment. After driving in a permanent location and on a timber trestle pile in its vicinity another fast bridge as directed by the engineer before ordering the remainder of piles.

Those spans which will have railroad signal or communication lines under them, shall have the deck drains spaced to clear the cross arms of these wire line poles by 10' as determined in the field by the engineer.

Excavations for portions of structure in the embankment shall not be classified.

REMARKS: STAYS THE WAY IS REPORTED IN REPORTING THE OTHERS ARE

TOTAL BILL OF MATERIAL

TOTAL BILL OF MATERIAL			
Item	Unit	Subst.	Total
Class A Excav. for Structures	Cu Yds	500	500
Class X Concrete	Cu Yds	694.8	722.7
Structural Steel	Lbs	566350	56635
Aluminum Handrail	Lin. Ft.	836	836
Reinforcement Bars	Lbs	13,810	14,445
Concrete Piles	Lin. Ft.	3,150	3,150
Test Piles (Concrete)	Each	2	2
Coated Piles (20.1 to 31)	Lin. Ft.	2,835	2,835
Test Piles (Timber)	Each		
Frame Plates	Each		2
Slope Wall (6")	Sq Yds	3,110	3,110
Protective Coat	Sq Yds	2,380	2,380
Bridge Seat Sealant	L.S.		2.1

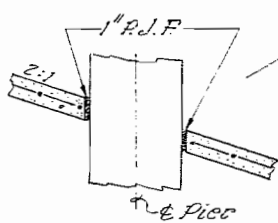
* At abutments only.
** Includes excavation for slope wall.

PROJ. I-IG-57-6(46) 285

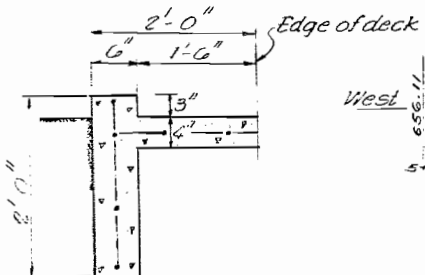
GENERAL PLAN & ELEVATION

FA.I.R.T.57 SEC.38-5VB.
OVER I.C. R.R.
IROQUOIS COUNTY
STATION 604 + 54.72

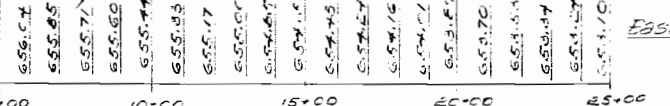
DESIGNED <i>L. E. Jones</i>	_____ SEPT 14 1965
CHECKED <i>Gene McDaniel</i> J.M.	EXAMINED <i>Carl Stumm</i> ENGINEER, OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN	PASSED ENGINEER OF DESIGN
CHECKED <i>J. E. G. M.</i>	APPROVED CHIEF HIGHWAY ENGINEER



DETAIL A



SFC. B-B



PROFILE-TOP EXIST. I.C. R.R. TRACK

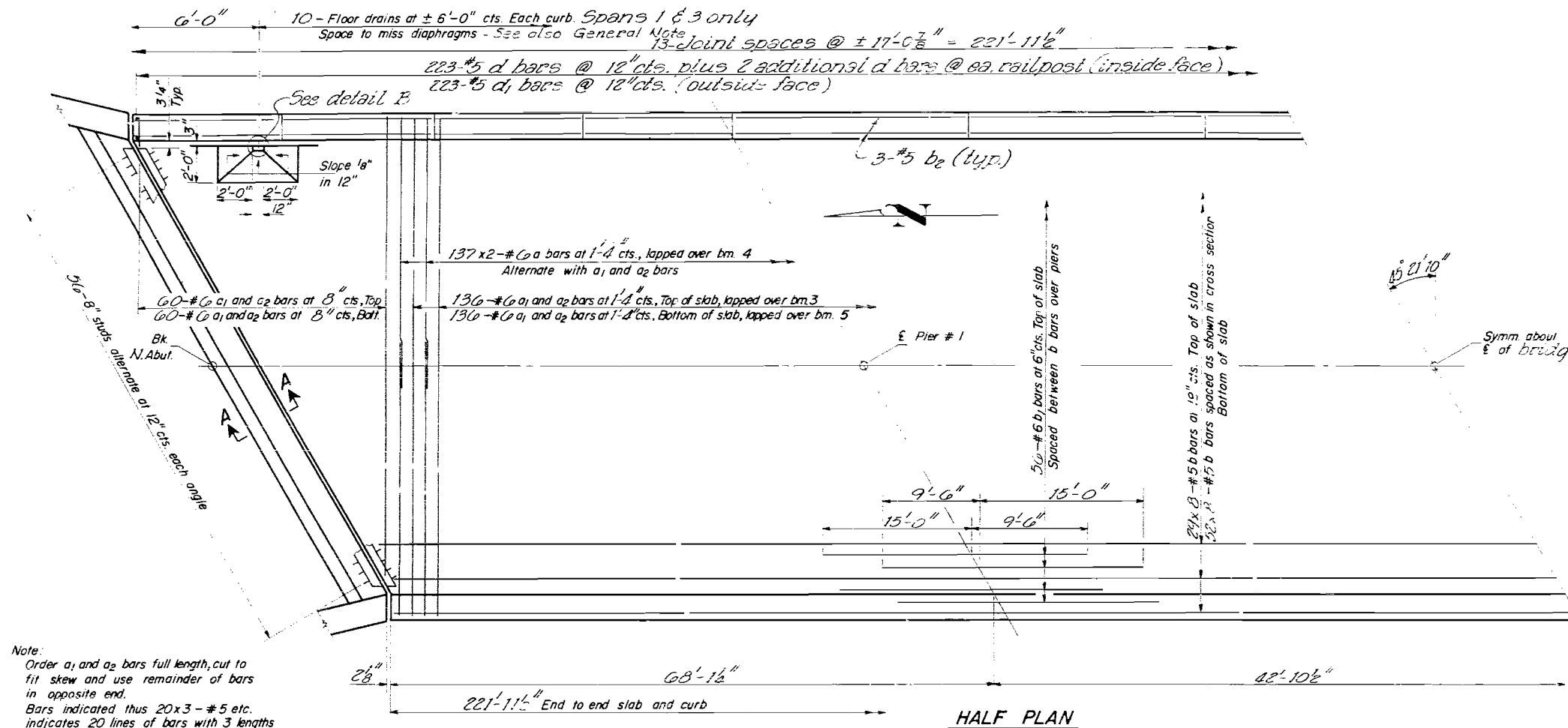
DESIGN STRESSES

ic = 1400 psi. Super & Sub.
K = .75 psi Footing
fs = 20,000 psi. Reinf.
ft = 20,000 psi. Struct. (A-36)
n = 10
Loading HS20-44 $\div$ ALT.

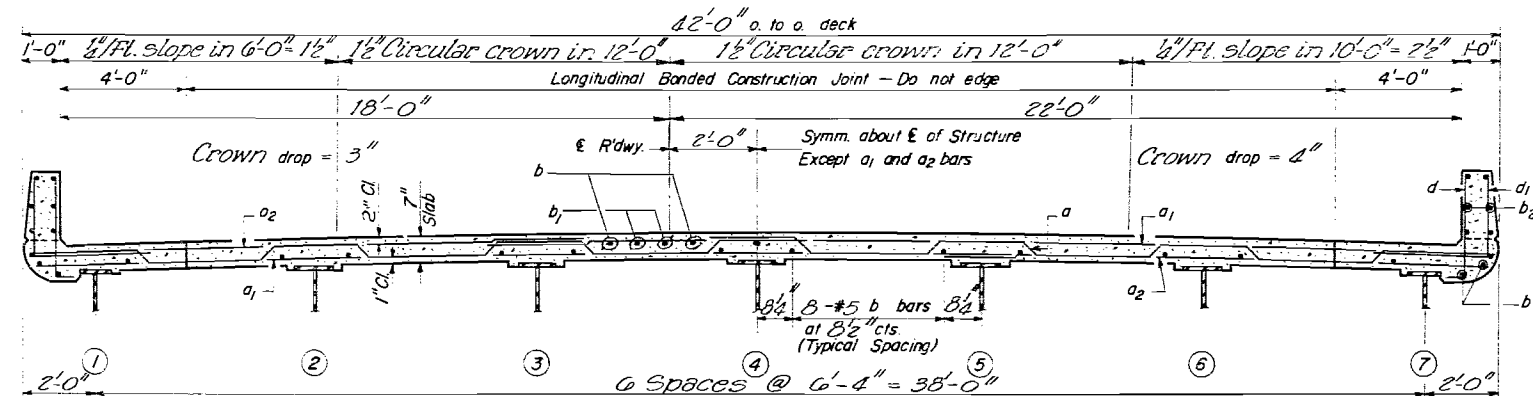
Loading HS 20-44 $\frac{1}{2}$ ALT.

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

ROUTE NO.	SECTION	CD. M.Y.	TOTAL SHEETS	SHEET NO.	SHEET TOTAL
157	IRROQUOIS	64	33	13	13



Note:
Order a₁ and a₂ bars full length, cut to fit skew and use remainder of bars in opposite end.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Min. bar laps = 20 dia.

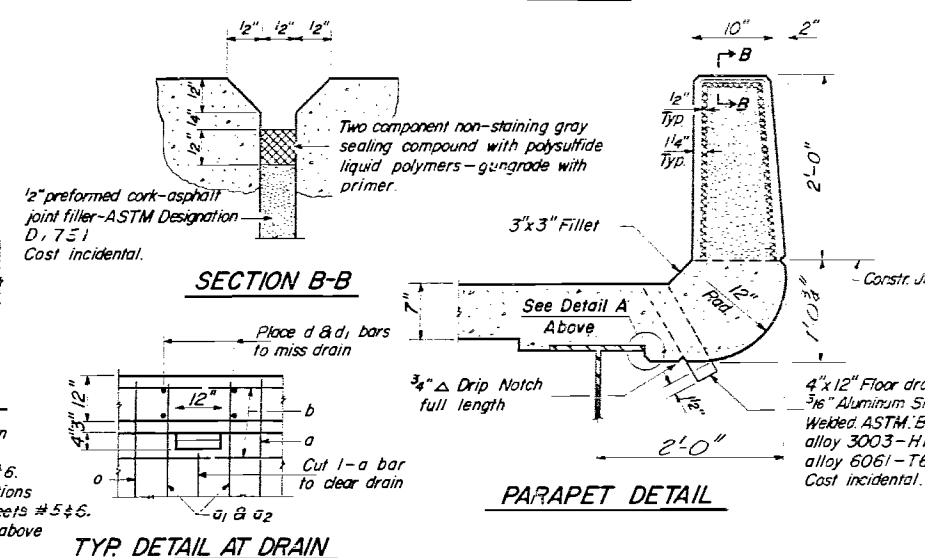
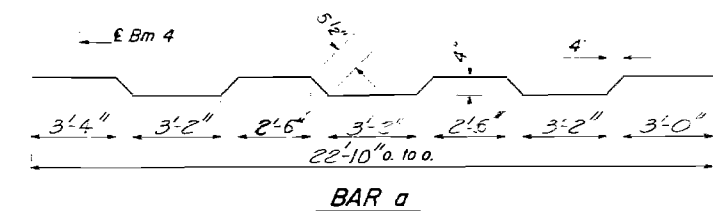
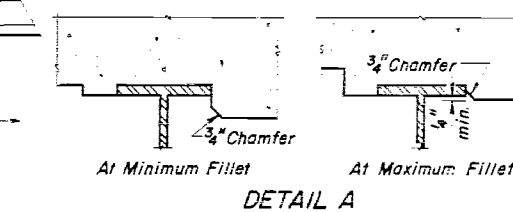
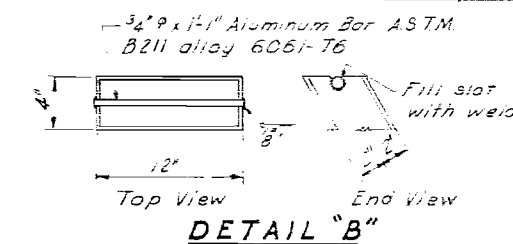
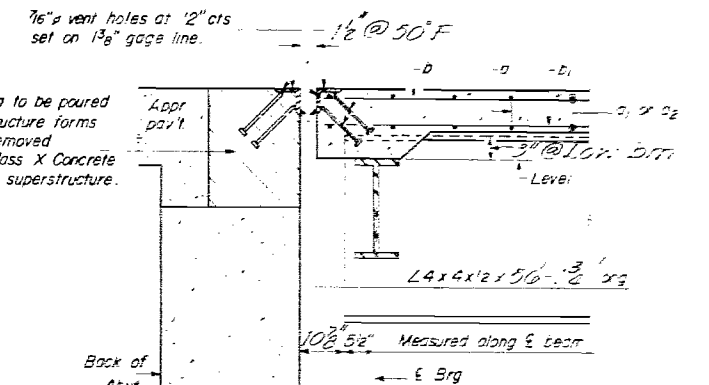


CROSS SECTION
E. bridge looking North & W. bridge looking South
 ϵ Brg. Abut. ϵ Brg. Pier
4 spaces at 10'-8 3/4" 4 spaces at 21'-5 1/4"
Spans 1 & 3 Span 2
DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 5 & 6.

STANDARD FILLET DETAIL

To determine "1": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheets 5 & 6. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheets 5 & 6, minus slab thickness, equals the fillet heights "1" above top of beams.

7/16" holes at 12" cts. for 3/8" bolts set on 2 1/2" gage line. All bolts shall be burned, sawed, or clipped off flush with back of angles after forms are removed.
3/4" x 8" CR 1020 STL. gusset or solid flux filled headed studs, automatically end welded (Alternate at 1'-0" cts.)



2 BRIDGES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	348	#6	23'-7"	~
a ₁	784	#6	26'-5"	~
a ₂	784	#6	15'-0"	~
b	1,296	#5	38'-8"	~
b ₁	224	#6	22'-5"	~
b ₂	312	#5	16'-9"	~
d	1,140	#5	3'-0"	~
d ₁	892	#5	5'-9"	~
Class X Concrete				
Reinforcement Bars				
Structural Steel				

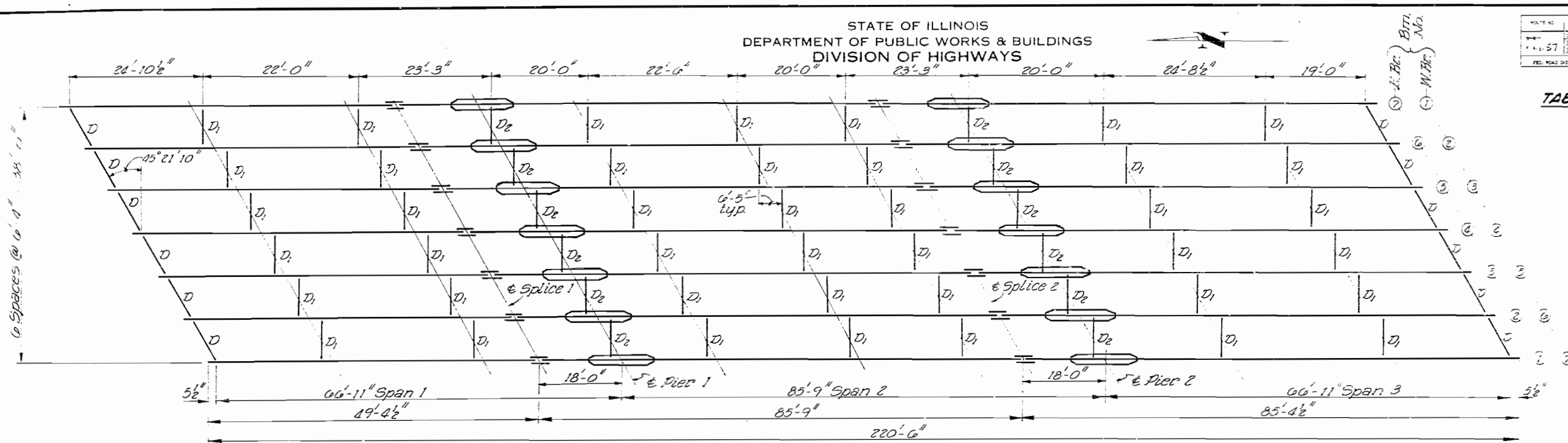
* Weight of bearing assemblies with lead plates and anchor bolts are included as structural steel.
Est. Weight = 16,460 lbs.

SUPERSTRUCTURE
F.A.T. RT. 57 SEC. 38-5VB-1
IROQUOIS COUNTY
STATION 604 + 54.72

DESIGNED	J. Engler	EXAMINED	SEPT 14 1965
CHECKED	PG. Barnett	PASSED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN	D.L. Beemer	APPROVED	ENGINEER OF DESIGN
CHECKED	J.E. G.M.		CHIEF HIGHWAY ENGINEER

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET TOTAL
1-57	38-5B	IROQUOIS	64	34	13
FED. ROAD DIST. NO. 1 ILLINOIS - ILL. NO. PROJECT					



PLAN

All beams 36 WF 150 with cover plates
11" x 2" at Piers 1 and 2.

TABLE OF MOMENTS & REACTIONS
INTERIOR BEAMS

Moments - Kips	Reactions - Kips
45.1	58.5
45.1	58.5
45.1	58.5
45.1	58.5
45.1	58.5
45.1	58.5
45.1	58.5
45.1	58.5
45.1	58.5
45.1	58.5

TABLE OF "E" DIMENSIONS
For all abuts. & Piers

Beam	E	E	E	E
Beam 1	5'	5'	5'	5'
Beam 2	5'	5'	5'	5'
Beam 3	5'	5'	5'	5'
Beam 4	5'	5'	5'	5'
Beam 5	5'	5'	5'	5'
Beam 6	5'	5'	5'	5'
Beam 7	5'	5'	5'	5'

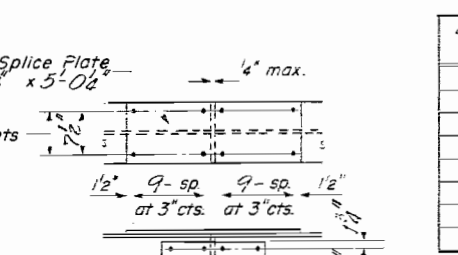
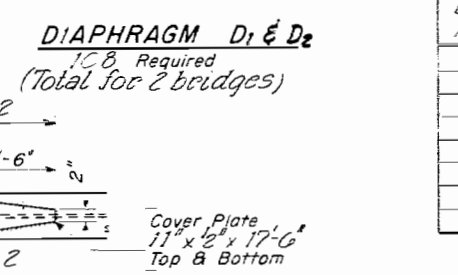
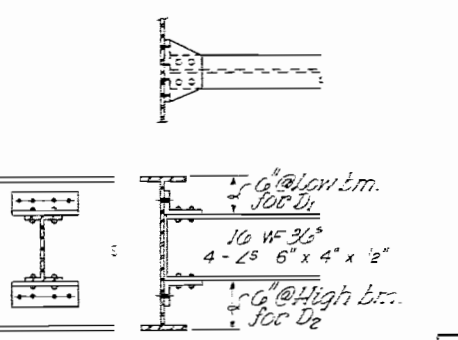
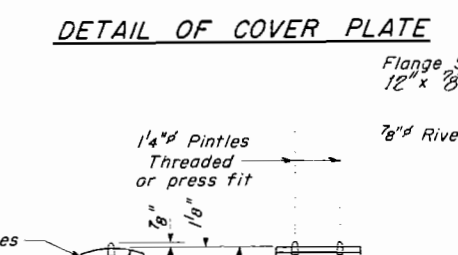
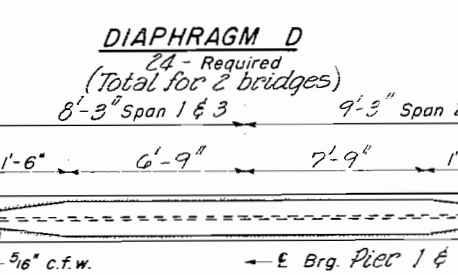
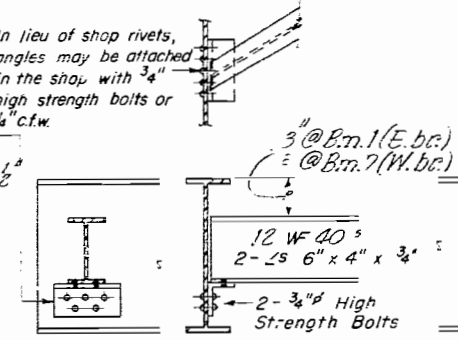
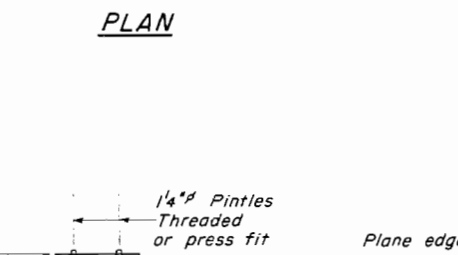
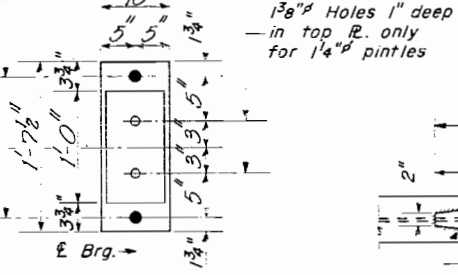
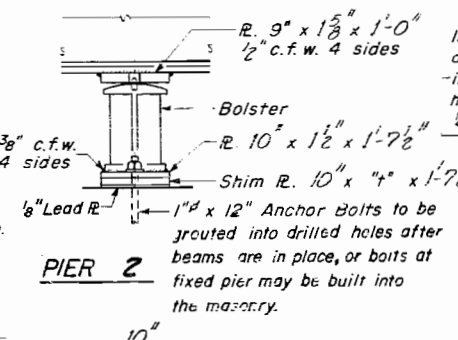
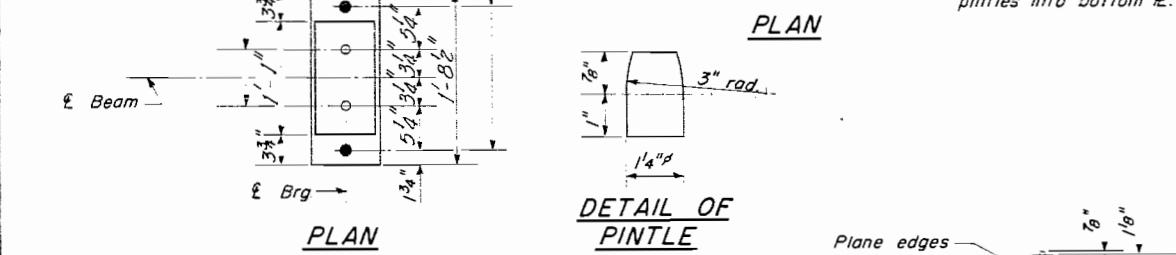
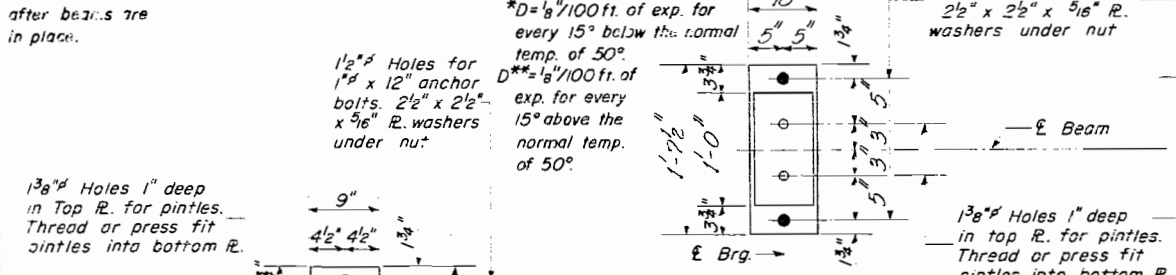
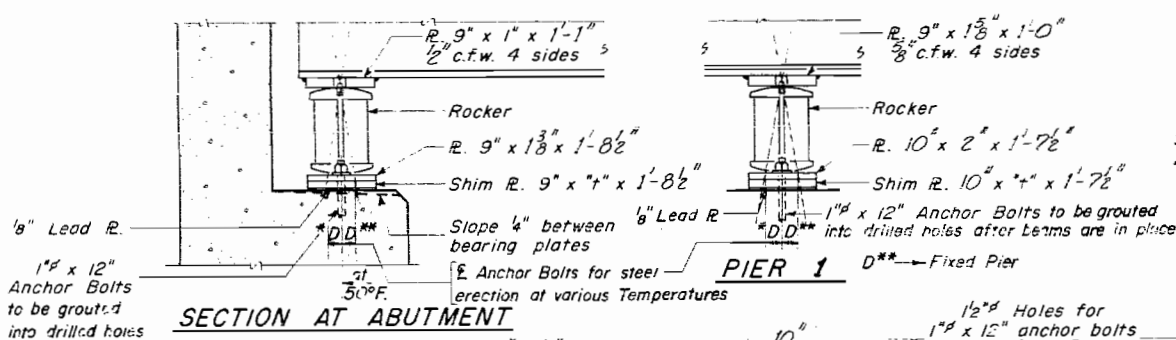
ELEVATION TOP OF WF
For fabrication only
EAST BRIDGE

BM	E	E	E	E	E	E	E	E	E
NO.	ABUT.	SPICE 1	PIER 1	SPICE 2	PIER 2	SPICE 3	ABUT.	NO.	ABUT.
1	682.33	682.33	682.33	682.33	682.33	682.33	682.33	1	682.33
2	682.62	682.62	682.62	682.62	682.62	682.62	682.62	2	682.62
3	682.95	682.95	682.95	682.95	682.95	682.95	682.95	3	682.95
4	683.02	683.02	683.02	683.02	683.02	683.02	683.02	4	683.02
5	683.01	683.01	683.01	683.01	683.01	683.01	683.01	5	683.01
6	682.94	682.94	682.94	682.94	682.94	682.94	682.94	6	682.94
7	682.85	682.85	682.85	682.85	682.85	682.85	682.85	7	682.85

WEST BRIDGE

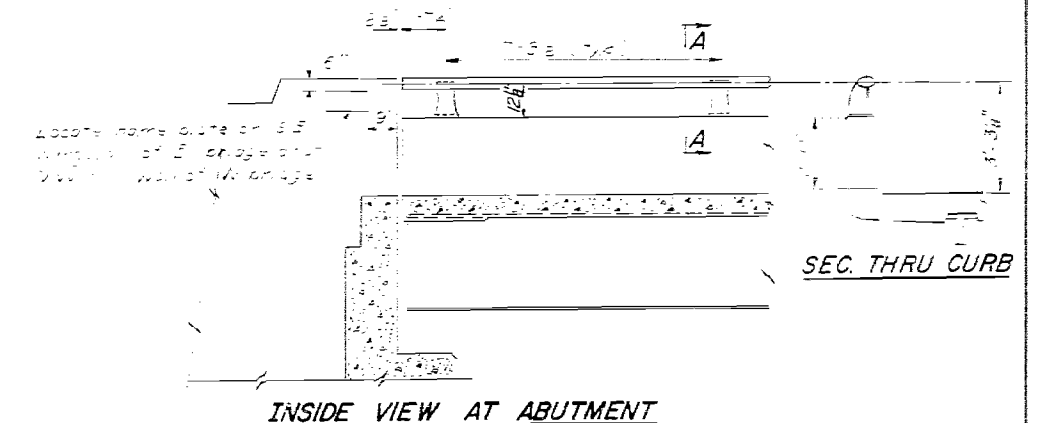
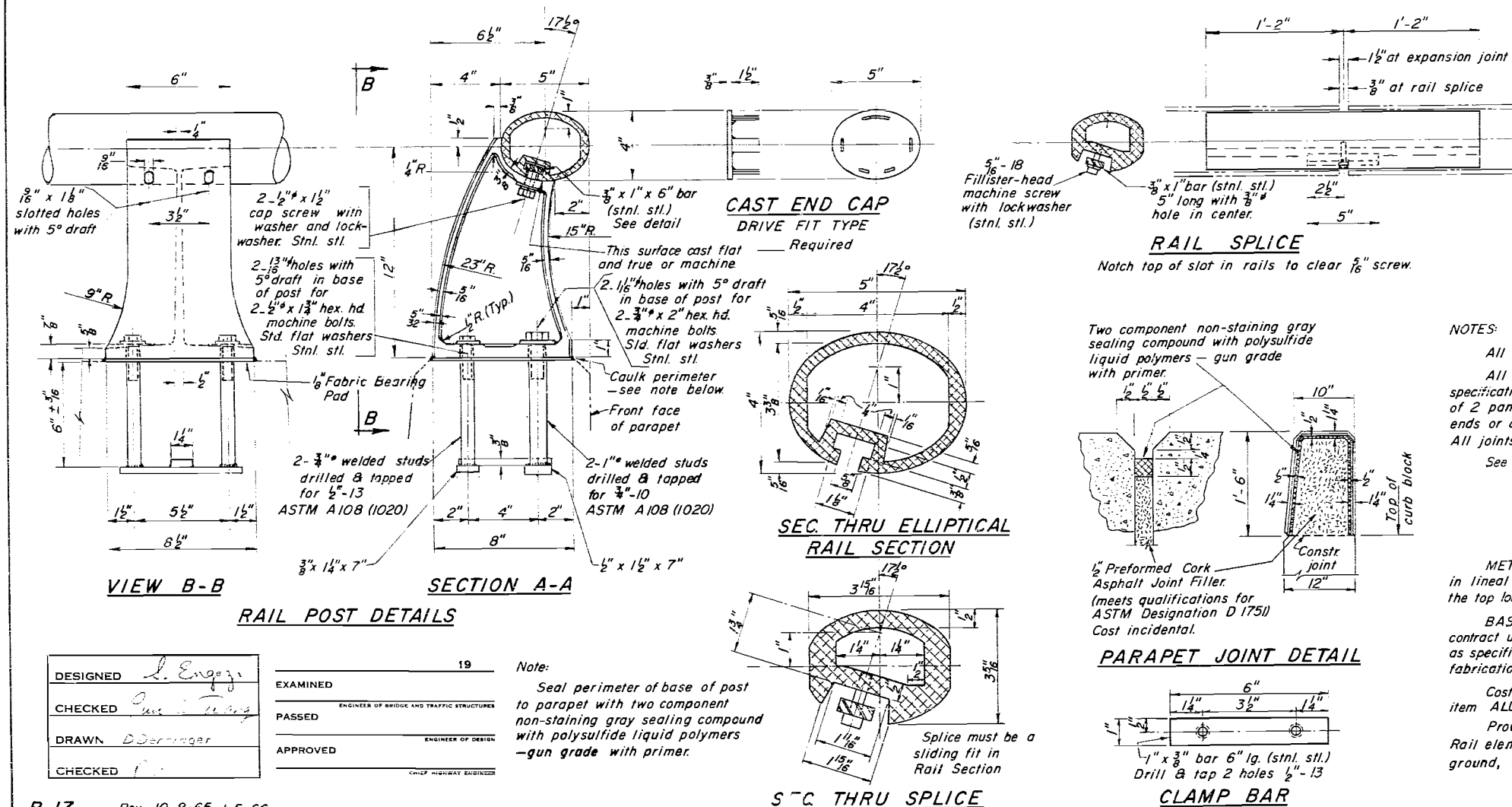
BM	E	E	E	E	E	E	E	E	E
NO.	ABUT.	SPICE 1	PIER 1	SPICE 2	PIER 2	SPICE 3	ABUT.	NO.	ABUT.
1	682.43	682.43	682.43	682.43	682.43	682.43	682.43	1	682.43
2	682.50	682.50	682.50	682.50	682.50	682.50	682.50	2	682.50
3	682.52	682.52	682.52	682.52	682.52	682.52	682.52	3	682.52
4	682.40	682.40	682.40	682.40	682.40	682.40	682.40	4	682.40
5	682.34	682.34	682.34	682.34	682.34	682.34	682.34	5	682.34
6	682.15	682.15	682.15	682.15	682.15	682.15	682.15	6	682.15
7	681.95	681.95	681.95	681.95	681.95	681.95	681.95	7	681.95

STRUCTURAL STEEL
F.A.I.R.T. 57 SEC. 38-5VB-1
IROQUOIS COUNTY
STATION 604 + 54.72



DESIGNED: J. Engle
CHECKED: P.G. Barnett
DRAWN: W.A. Sausaman Jr.
APPROVED: J.E. G.M.
SEPT. 14, 1965
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
ENGINEER OF DESIGN
CHIEF HIGHWAY ENGINEER

ROUTE NO	SECTION	DATE	TOTAL SHEETS	SHEET NO	SHEET NO
FA-57	SECTION 18	IRCCQUIS	64	35	13 SHEETS
FED. ROAD DIST. NO. 7	LOCAL'S / FED. AID PROJECT				



Provide 1-8" and 2-1/8" Aluminum Shims for 25% of the Posts.
Rail element shall be parallel to Grade — high spots shall be ground, and low spots shimmed.

TWO BRIDGES
BILL OF MATERIALS

Item	Unit	Quantity
Aluminum Handrail	Lin. Ft.	888
Name Plate	each	2

ALUMINUM HANDRAIL
FILE # 57 SEC. 38-BVE-1
IR00003 000.71
STA 504+54.70

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

57 38-51B IROQUOIS 64 36 13 SHEET NO. 5
SHEETS

Location	Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of N. Abut.	1	60375.889	17.000	683.021	683.021
	2	60382.301	10.666	683.109	683.109
	3	60385.713	4.333	683.148	683.148
	4	60393.100	.000	683.134	683.134
	5	60395.125	2.000	683.116	683.116
	6	60401.537	8.333	683.014	683.014
	7	60407.948	14.666	682.848	682.848
Bk. of S. Abut.	1	60414.360	21.000	682.669	682.669
	2	60375.889	17.000	682.998	682.998
	3	60382.301	10.666	683.085	683.085
	4	60385.713	4.333	683.124	683.124
	5	60393.100	.000	683.109	683.109
	6	60395.125	2.000	683.092	683.092
	7	60401.537	8.333	682.989	682.989
Pier 1	1	60407.948	14.666	682.822	682.822
	2	60414.360	21.000	682.642	682.642
	3	60375.889	17.000	682.930	682.930
	4	60382.301	10.666	683.016	683.016
	5	60385.713	4.333	683.053	683.053
	6	60393.100	.000	683.038	683.038
	7	60395.125	2.000	683.020	683.020
Pier 2	1	60401.537	8.333	682.915	682.915
	2	60407.948	14.666	682.747	682.747
	3	60414.360	21.000	682.566	682.566
	4	60375.889	17.000	682.861	682.861
	5	60382.301	10.666	682.945	682.945
	6	60385.713	4.333	682.980	682.980
	7	60393.100	.000	682.964	682.964
Pier 3	1	60395.125	2.000	682.839	682.839
	2	60401.537	8.333	682.669	682.669
	3	60407.948	14.666	682.486	682.486
	4	60414.360	21.000	682.295	682.295
	5	60375.889	17.000	682.581	682.581
	6	60382.301	10.666	682.665	682.665
	7	60385.713	4.333	682.700	682.700
Pier 4	1	60393.100	.000	682.515	682.515
	2	60395.125	2.000	682.405	682.405
	3	60401.537	8.333	682.235	682.235
	4	60407.948	14.666	682.054	682.054
	5	60414.360	21.000	681.863	681.863
	6	60375.889	17.000	682.147	682.147
	7	60382.301	10.666	682.231	682.231
Pier 5	1	60385.713	4.333	682.266	682.266
	2	60393.100	.000	682.151	682.151
	3	60395.125	2.000	682.041	682.041
	4	60401.537	8.333	681.850	681.850
	5	60407.948	14.666	681.659	681.659
	6	60414.360	21.000	681.468	681.468
	7	60375.889	17.000	681.752	681.752
Pier 6	1	60382.301	10.666	681.822	681.822
	2	60385.713	4.333	681.842	681.842
	3	60393.100	.000	681.812	681.812
	4	60395.125	2.000	681.787	681.787
	5	60401.537	8.333	681.681	681.681
	6	60407.948	14.666	681.471	681.471
	7	60414.360	21.000	681.262	681.262
Pier 7	1	60375.889	17.000	681.703	681.703
	2	60382.301	10.666	681.786	681.786
	3	60385.713	4.333	681.781	681.781
	4	60393.100	.000	681.750	681.750
	5	60395.125	2.000	681.725	681.725
	6	60401.537	8.333	681.593	681.593
	7	60407.948	14.666	681.402	681.402
Pier 8	1	60414.360	21.000	681.203	681.203
	2	60375.889	17.000	681.588	681.588
	3	60382.301	10.666	681.652	681.652
	4	60385.713	4.333	681.613	681.613
	5	60393.100	.000	681.581	681.581
	6	60395.125	2.000	681.545	681.545
	7	60401.537	8.333	681.393	681.393
Pier 9	1	60407.948	14.666	681.175	681.175
	2	60414.360	21.000	680.972	680.972
	3	60375.889	17.000	681.491	681.491
	4	60382.301	10.666	681.551	681.551
	5	60385.713	4.333	681.562	681.562
	6	60393.100	.000	681.530	681.530
	7	60395.125	2.000	681.495	681.495
Pier 10	1	60401.537	8.333	681.257	681.257
	2	60407.948	14.666	681.115	681.115
	3	60414.360	21.000	680.927	680.927
	4	60375.889	17.000	681.381	681.381
	5	60382.301	10.666	681.440	681.440
	6	60385.713	4.333	681.450	681.450
	7	60393.100	.000	681.415	681.415
Pier 11	1	60395.125	2.000	681.385	681.385
	2	60401.537	8.333	681.257	681.257
	3	60407.948	14.666	681.061	681.061
	4	60414.360	21.000	680.853	680.853
	5	60375.889	17.000	681.311	681.311
	6	60382.301	10.666	681.371	681.371
	7	60385.713	4.333	681.381	681.381
Pier 12	1	60393.100	.000	681.345	681.345
	2	60395.125	2.000	681.309	681.309
	3	60401.537	8.333	681.175	681.175
	4	60407.948	14.666	680.972	680.972
	5	60414.360	21.000	680.780	680.780
	6	60375.889	17.000	681.065	681.065
	7	60382.301	10.666	681.125	681.125
Pier 13	1	60385.713	4.333	681.135	681.135
	2	60393.100	.000	681.103	681.103
	3	60395.125	2.000	681.067	681.067
	4	60401.537	8.333	680.933	680.933
	5	60407.948	14.666	680.740	680.740
	6	60414.360	21.000	680.548	680.548
	7	60375.889	17.000	680.832	680.832
Pier 14	1	60382.301	10.666	680.891	680.891
	2	60385.713	4.333	680.908	680.908
	3	60393.100	.000	680.876	680.876
	4	60395.125	2.000	680.840	680.840
	5	60401.537	8.333	680.706	680.706
	6	60407.948	14.666	680.513	680.513
	7	60414.360	21.000	680.321	680.321
Pier 15	1	60375.889	17.000	680.585	680.585
	2	60382.301	10.666	680.645	680.645
	3	60385.713	4.333	680.655	680.655
	4	60393.100	.000	680.623	680.623
	5	60395.125	2.000	680.587	680.587
	6	60401.537	8.333	680.453	680.453
	7	60407.948	14.666	680.260	680.260
Pier 16	1	60414.360	21.000	680.067	680.067
	2	60375.889	17.000	680.443	680.443
	3	60382.301	10.666	680.503	680.503
	4	60385.713	4.333	680.513	680.513
	5	60393.100	.000	680.481	680.481
	6	60395.125	2.000	680.445	680.445
	7	60401.537	8.333	680.311	680.311
Pier 17	1	60407.948	14.666	680.115	680.115
	2	60414.360	21.000	680.000	680.000
	3	60375.889	17.000	680.381	680.381
	4	60382.301	10.666	680.440	680.440
	5	60385.713	4.333	680.450	680.450
	6	60393.100	.000	680.415	680.415
	7	60395.125	2.000	680.385	680.385
Pier 18	1	60401.537	8.333	680.257	680.257
	2	60407.948	14.666	680.061	680.061
	3	60414.360	21.000	680.000	680.000
	4	60375.889	17.000	680.381	680.381
	5	60382.301	10.666	680.440	680.440
	6	60385.713	4.333	680.450	680.450
	7	60393.100	.000	680.415	680.415
Pier 19	1	60395.125	2.000	680.385	680.385
	2	60401.537	8.333	680.257	680.257
	3	60407.948	14.666	680.061	680.061
	4	60414.360	21.000	680.000	680.000
	5	60375.889	17.000	680.381	680.381
	6	60382.301	10.666	680.440	680.440
	7	60385.713	4.333	680.450	680.450
Pier 20	1	60393.100	.000	680.415	680.415
	2	60395.125	2.000	680.385	680.385
	3	60401.537	8.333	680.257	680.257
	4	60407.948	14.666	680.061	680.061
	5	60414.360	21.000	680.000	680.000
	6	60375.889	17.000	680.381	680.381
	7	60382.301	10.666	680.440	680.440
Pier 21	1	60385.713	4.333	680.450	680.450
	2	60393.100	.000	680.415	680.415
	3	60395.125	2.000	680.385	680.385
	4	60401.537	8.333	680.257	680.257
	5	60407.948	14.666	680.061	680.061
	6	60414.360	21.000	680.000	680.000
	7	60375.889	17.000	680.381	680.381
Pier 22	1	60382.301	10.666	680.440	680.440
	2	60385.713	4.333	680.450	680.450
	3	60393.100	.000	680.415	680.415
	4	60395.125	2.000	680.385	680.385
	5	60401.537	8.333	680.257	680.257
	6	60407.948	14.666	680.061	680.061
	7	60414.360	21.000	680.000	680.000
Pier 23	1	60375.889	17.000	680.381	680.381
	2	60382.301	10.666	680.440	680.440
	3	60385.713	4.333	680.450	680.450
	4	60393.100	.000	680.415	680.415
	5	60395.125	2.000	680.385	680.385
	6	60401.537	8.333	680.257	680.257

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

SHEET NO 6
13 SHEETS

Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
7	60282.740	21.000	683.437	683.437
6	60289.152	14.666	683.542	683.542
5	60295.563	8.333	683.633	683.633
4	60301.975	2.000	683.660	683.660
3	60308.387	4.333	683.617	683.617
2	60314.799	10.666	683.503	683.503
1	60321.211	17.000	683.340	683.340
Bk. N. Abut. & Rowy				
7	60286.240	21.000	683.423	683.423
6	60292.652	14.666	683.526	683.526
5	60299.063	8.333	683.617	683.617
4	60305.475	2.000	683.644	683.644
3	60311.887	4.333	683.638	683.638
2	60318.299	10.666	683.600	683.600
1	60324.711	17.000	683.485	683.485
Brg. N. Abut.				
7	60296.240	21.000	683.378	683.378
6	60302.652	14.666	683.480	683.480
5	60309.063	8.333	683.570	683.570
4	60315.475	2.000	683.644	683.644
3	60321.887	4.333	683.566	683.566
2	60328.299	10.666	683.549	683.549
1	60334.711	17.000	683.433	683.433
A				
7	60306.240	21.000	683.331	683.331
6	60312.652	14.666	683.432	683.432
5	60319.063	8.333	683.520	683.520
4	60325.475	2.000	683.543	683.543
3	60331.887	4.333	683.536	683.536
2	60338.299	10.666	683.496	683.496
1	60344.711	17.000	683.378	683.378
B				
7	60316.240	21.000	683.282	683.282
6	60322.652	14.666	683.381	683.381
5	60329.063	8.333	683.467	683.467
4	60335.475	2.000	683.489	683.489
3	60341.887	4.333	683.482	683.482
2	60348.299	10.666	683.441	683.441
1	60354.711	17.000	683.321	683.321
C				
7	60326.240	21.000	683.231	683.231
6	60332.652	14.666	683.328	683.328
5	60339.063	8.333	683.413	683.413
4	60345.475	2.000	683.433	683.433
3	60351.887	4.333	683.425	683.425
2	60358.299	10.666	683.383	683.383
1	60364.711	17.000	683.262	683.262
D				
7	60336.240	21.000	683.176	683.176
6	60342.652	14.666	683.272	683.272
5	60349.063	8.333	683.355	683.355
4	60355.475	2.000	683.374	683.374
3	60361.887	4.333	683.365	683.365
2	60368.299	10.666	683.322	683.322
1	60374.711	17.000	683.200	683.200
E				
7	60346.240	21.000	683.120	683.120
6	60352.652	14.666	683.214	683.214
5	60359.063	8.333	683.295	683.295
4	60365.475	2.000	683.313	683.313
3	60371.887	4.333	683.303	683.303
2	60378.299	10.666	683.253	683.253
1	60384.711	17.000	683.135	683.135
F				
7	60353.156	21.000	683.079	683.079
6	60359.568	14.666	683.172	683.172
5	60365.980	8.333	683.253	683.253
4	60372.392	2.000	683.269	683.269
3	60378.804	4.333	683.259	683.259
2	60385.215	10.666	683.214	683.214
1	60391.627	17.000	683.089	683.089
G				
7	60363.156	21.000	683.018	683.018
6	60369.568	14.666	683.110	683.110
5	60375.980	8.333	683.189	683.189
4	60382.392	2.000	683.203	683.203
3	60388.804	4.333	683.193	683.193
2	60395.215	10.666	683.147	683.147
1	60401.627	17.000	683.020	683.020
H				
7	60373.156	21.000	682.955	682.955
6	60379.568	14.666	683.045	683.045
5	60385.980	8.333	683.122	683.122
4	60392.392	2.000	683.135	683.135
3	60398.804	4.333	683.125	683.125
2	60405.215	10.666	683.073	683.073
1	60411.627	17.000	682.949	682.949
I				
7	60383.156	21.000	682.889	682.889
6	60389.568	14.666	682.978	682.978
5	60395.980	8.333	683.063	683.063
4	60402.392	2.000	683.055	683.055
3	60408.804	4.333	683.044	683.044
2	60415.215	10.666	683.006	683.006
1	60421.627	17.000	682.876	682.876
J				
7	60393.156	21.000	682.821	682.821
6	60399.568	14.666	682.908	682.908
5	60405.980	8.333	682.982	682.982
4	60412.392	2.000	682.992	682.992
3	60418.804	4.333	682.980	682.980
2	60425.215	10.666	682.931	682.931
1	60431.627	17.000	682.800	682.800
K				
7	60403.156	21.000	682.751	682.751
6	60409.568	14.666	682.836	682.836
5	60415.980	8.333	682.902	682.902
4	60422.392	2.000	682.917	682.917
3	60428.804	4.333	682.904	682.904
2	60435.215	10.666	682.854	682.854
1	60441.627	17.000	682.721	682.721
L				
7	60413.156	21.000	682.678	682.678
6	60419.568	14.666	682.761	682.761
5	60425.980	8.333	682.825	682.825
4	60432.392	2.000	682.839	682.839
3	60438.804	4.333	682.826	682.826
2	60445.215	10.666	682.775	682.775
1	60451.627	17.000	682.640	682.640
M				
7	60423.156	21.000	682.602	682.602
6	60429.568	14.666	682.684	682.684
5	60435.980	8.333	682.753	682.753
4	60442.392	2.000	682.758	682.758
3	60448.804	4.333	682.745	682.745
2	60455.215	10.666	682.693	682.693
1	60461.627	17.000	682.557	682.557
N				
7	60433.156	21.000	682.524	682.524
6	60439.568	14.666	682.604	682.604
5	60445.980	8.333	682.672	682.672
4	60452.392	2.000	682.675	682.675
3	60458.804	4.333	682.662	682.662
2	60465.215	10.666	682.609	682.609
1	60471.627	17.000	682.471	682.471
O				
7	60435.156	21.000	682.478	682.478
6	60441.568	14.666	682.557	682.557
5	60447.980	8.333	682.624	682.624
4	60454.392	2.000	682.627	682.627
3	60460.804	4.333	682.613	682.613
2	60467.215	10.666	682.559	682.559
1	60473.627	17.000	682.420	682.420
P				
7	60437.156	21.000	682.423	682.423
6	60443.568	14.666	682.502	682.502
5	60449.980	8.333	682.569	682.569
4	60456.392	2.000	682.572	682.572
3	60462.804	4.333	682.558	682.558
2	60469.215	10.666	682.505	682.505
1	60475.627	17.000	682.367	682.367
Q				
7	60439.156	21.000	682.395	682.395
6	60445.568	14.666	682.474	682.474
5	60451.980	8.333	682.543	682.543
4	60458.392	2.000	682.546	682.546
3	60464.804	4.333	682.532	682.532
2	60471.215	10.666	682.479	682.479
1	60477.627	17.000	682.341	682.341
R				
7	60441.156	21.000	682.312	682.312
6	60447.568	14.666	682.391	682.391
5	60453.980	8.333	682.459	682.459
4	60460.392	2.000	682.462	682.462
3	60466.804	4.333	682.448	682.448
2	60473.215	10.666	682.395	682.395
1	60479.627	17.000	682.257	682.257
S				
7	60443.156	21.000	682.225	682.225
6	60449.568	14.666	682.304	682.304
5	60455.980	8.333	682.372	682.372
4	60462.392	2.000	682.375	682.375
3	60468.804	4.333	682.361	682.361
2	60475.215	10.666	682.308	682.308
1	60481.627	17.000	682.170	682.170
T				
7	60445.156	21.000	682.193	682.193
6	60451.568	14.666	682.272	682.272
5	60457.980	8.333	682.341	682.341
4	60464.392	2.000	682.344	682.344
3	60470.804	4.333	682.330	682.330
2	60477.215	10.666	682.277	682.277
1	60483.627	17.000	682.139	682.139
Bk. S. Abut.				
7	60447.156	21.000	682.166	682.166
6	60453.568	14.666	682.245	682.245
5	60459.980	8.333	682.314	682.314
4	60466.392	2.000	682.317	682.317
3	60472.804	4.333	682.303	682.303
2	60479.215	10.666	682.250	682.250
1	60485.627	17.000	682.112	682.112
Brg. S. Abut.				
7	60449.156	21.000	682.139	682.139
6	60455.568	14.666	682.218	682.218
5	60461.980	8.333	682.287	682.287
4	60468.392	2.000	682.290	682.290
3	60474.804	4.333	682.276	682.276
2	60481.215	10.666	682.223	682.223
1	60487.627	17.000	682.085	682.085

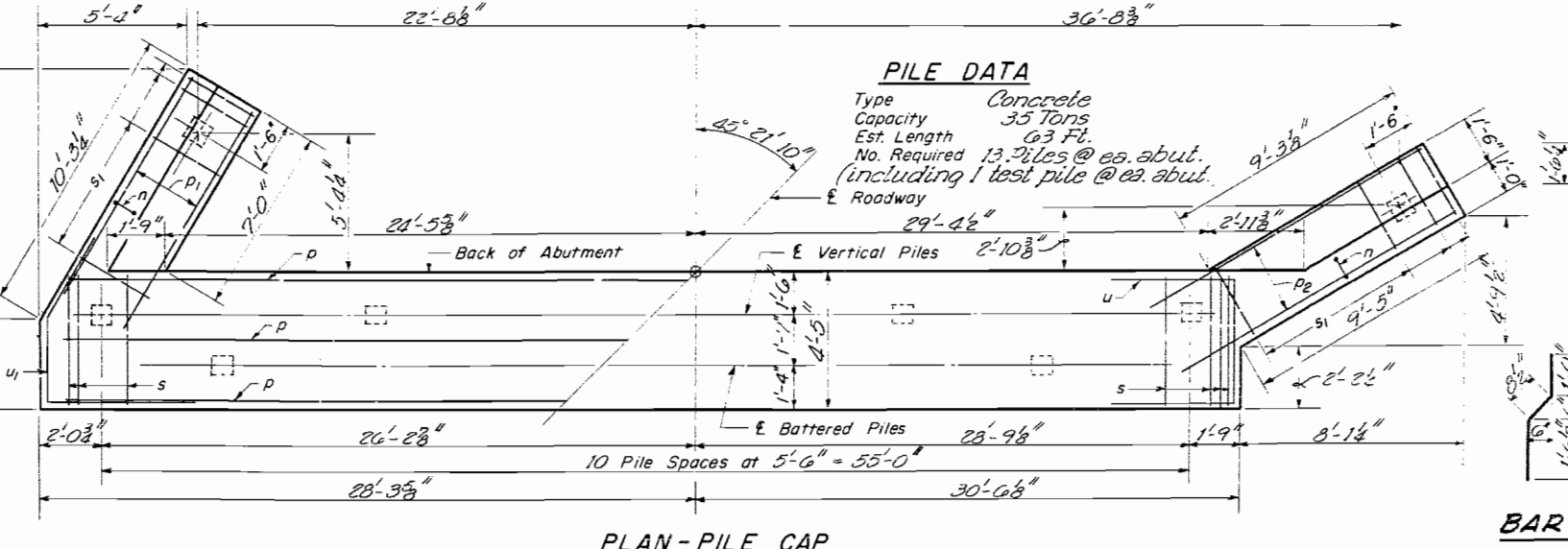
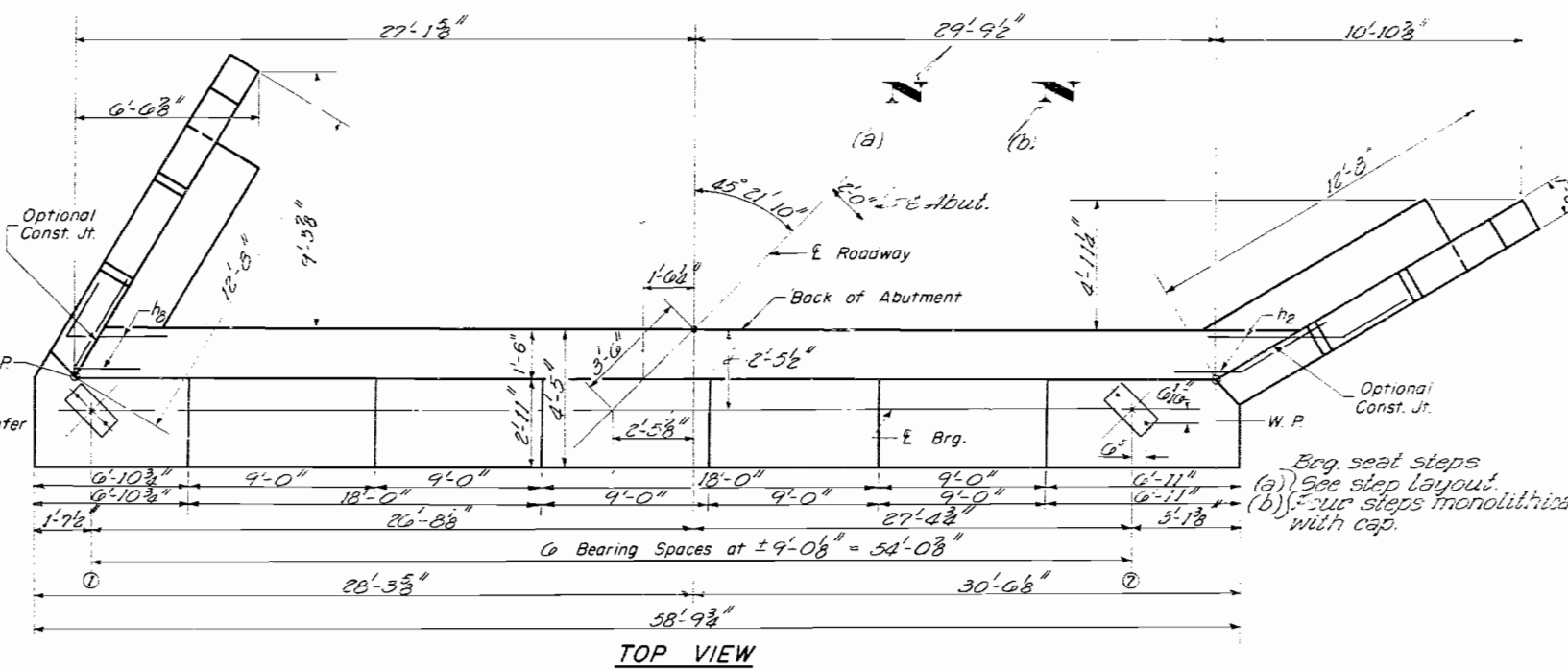
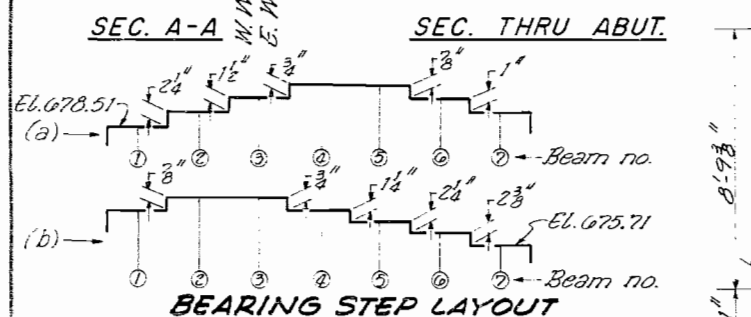
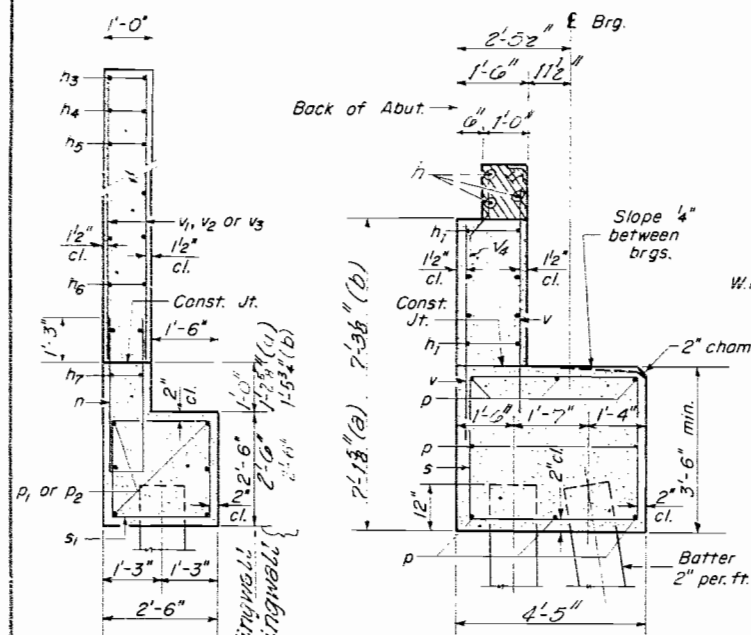
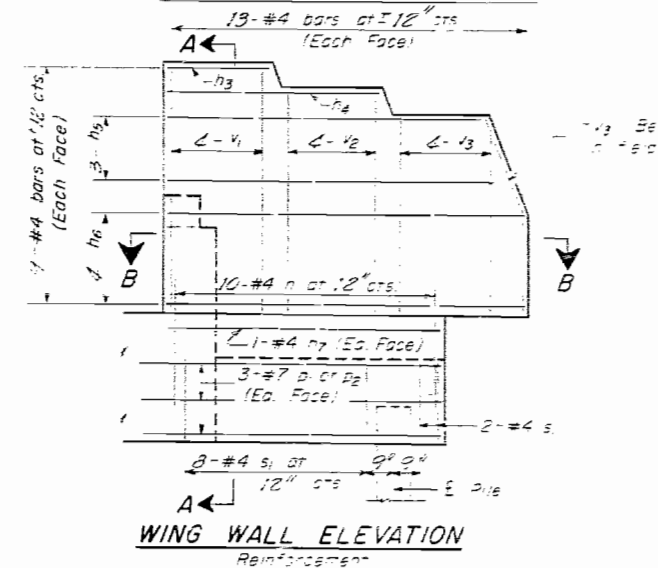
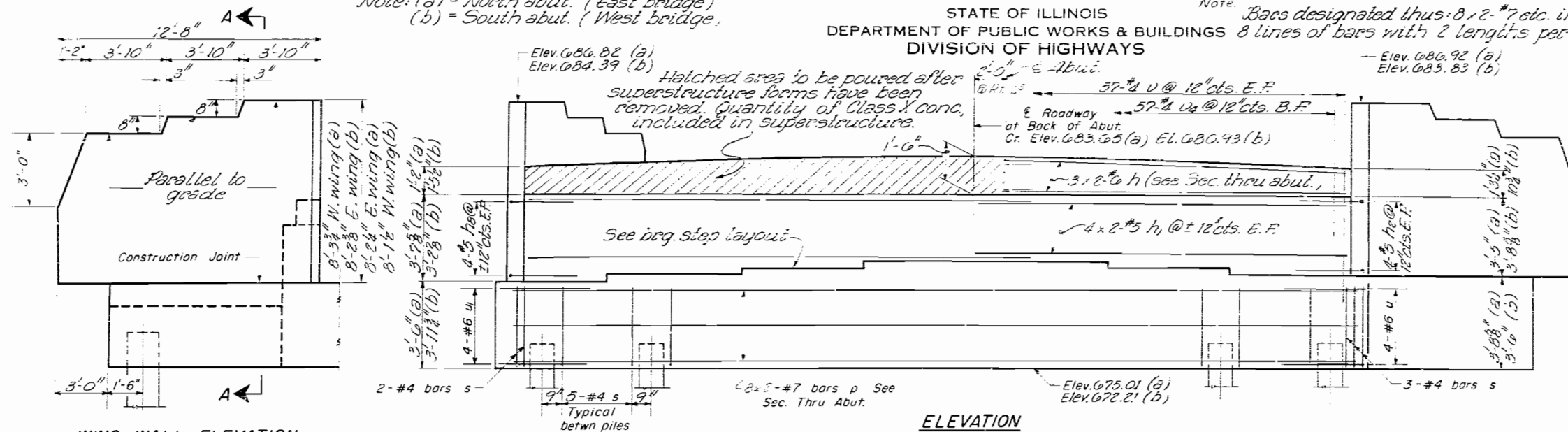
Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
	60364.240	21.000	683.120	683.124
	60352.652	14.666	683.214	683.218
	60359.063	8.333	683.295	683.300
(F)	60365.475	2.000	683.313	683.317
	60367.500	1.000	683.303	683.308
	60371.887	4.333	683.259	683.263
	60378.299	10.666	683.135	683.139
	60384.711	17.000	682.952	682.966
7	60353.156	21.000	683.079	683.079
6	60359.566	14.666	683.172	683.172
5	60365.980	8.333	683.253	683.253
4	60372.392	2.000	683.269	683.269
3	60378.417	1.000	683.259	683.259
2	60378.804	4.333	683.214	683.214
1	60385.215	10.666	683.089	683.089
	60391.627	17.000	682.915	682.915
60353.156	21.000	683.018	683.030	
60359.566	14.666	683.110	683.122	
60375.980	8.333	683.189	683.201	
60382.392	2.000	683.203	683.215	
60384.417	1.000	683.193	683.205	
60386.804	4.333	683.147	683.159	
60395.215	10.666	683.020	683.032	
60401.627	17.000	682.845	682.857	
60373.156	21.000	682.955	682.979	
60379.566	14.666	683.045	683.069	
60385.980	8.333	683.122	683.147	
60392.392	2.000	683.135	683.159	
60394.417	1.000	683.125	683.145	
60398.804	4.333	683.078	683.102	
60405.215	10.666	682.949	682.973	
60411.627	17.000	682.772	682.796	
60393.156	21.000	682.889	682.924	
60399.566	14.666	682.978	683.012	
60405.980	8.333	683.053	683.088	
60412.392	2.000	683.065	683.099	
60414.417	1.000	683.054	683.088	
60415.804	4.333	683.005	683.040	
60415.215	10.666	682.876	682.910	
60411.627	17.000	682.697	682.731	
60393.156	21.000	682.821	682.865	
60399.566	14.666	682.908	682.952	
60405.980	8.333	682.982	683.026	
60412.392	2.000	682.992	683.036	
60414.417	1.000	682.980	683.024	
60415.804	4.333	682.931	682.975	
60425.215	10.666	682.800	682.844	
60431.627	17.000	682.619	682.663	
60403.156	21.000	682.751	682.791	
60409.566	14.666	682.836	682.876	
60415.980	8.333	682.908	682.946	
60422.392	2.000	682.917	682.957	
60424.417	1.000	682.904	682.944	
60428.804	4.333	682.854	682.894	
60435.215	10.666	682.721	682.761	
60441.627	17.000	682.539	682.579	

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

Note: Bars designated thus: 8-12-#7 etc. indicates 8 lines of bars with 2 lengths per line.

Note: (a) = North abut. (East bridge)
(b) = South abut. (West bridge)

PROJECT NO. IROQ. J.O.D. 64 38 13 SHEET NO. 7



PILE DATA

Type	Capacity	Est. Length	No. Required
Concrete	35 Tons	63 Ft.	13 Piles @ ea. abut.
			(including 1 test pile @ ea. abut.)

DESIGNED: J. Engle
CHECKED: J. Muller
DRAWN: J. A. Sandoval
CHECKED: J. E. G. K.

EXAMINED: J. E. G. K.
PASSED: J. E. G. K.
APPROVED: J. E. G. K.

DATE: SEPT 14 1965

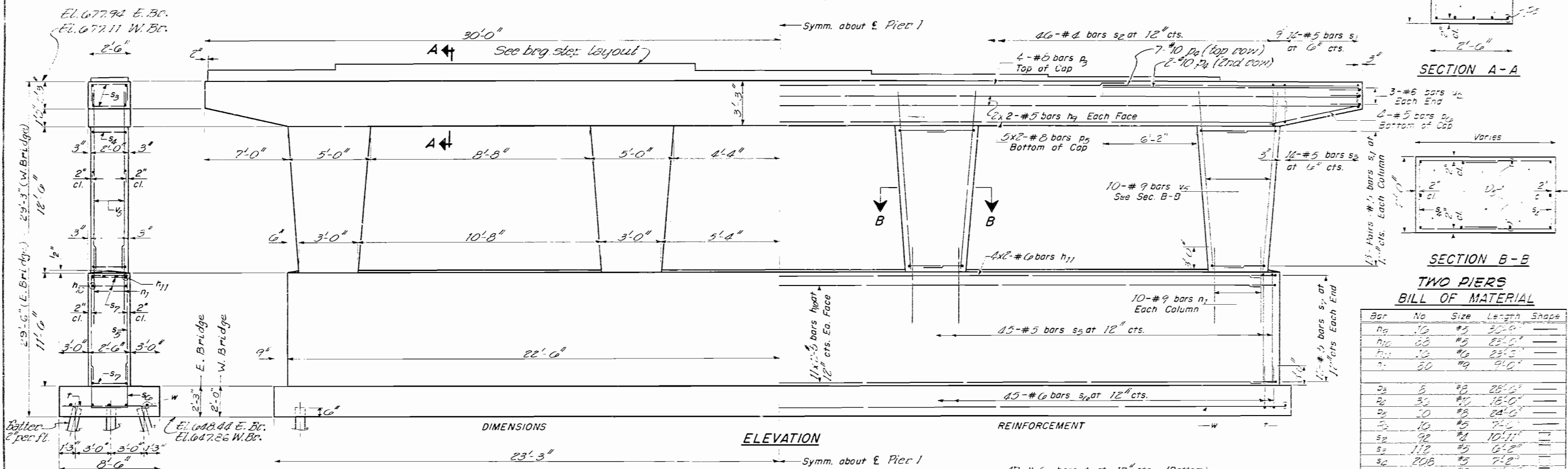
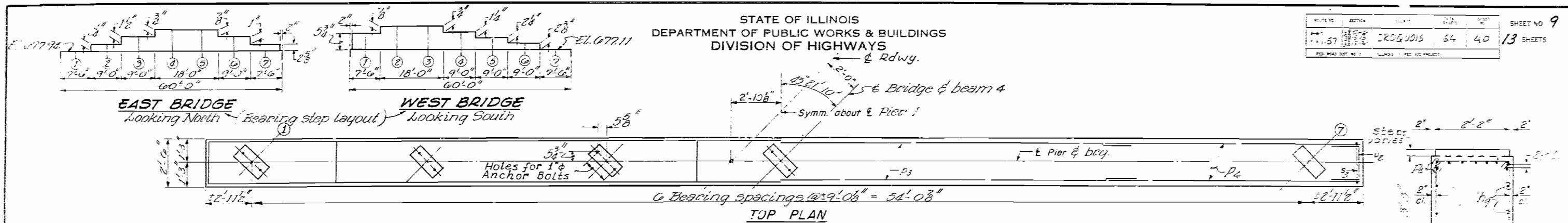
CHIEF HIGHWAY ENGINEER

N. ABUT. E. BR. - S. ABUT. W. BR.
F.A.I. RT. 57 SEC. 38-5 VB-1
IROQUOIS COUNTY
STATION 604 + 54.72

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

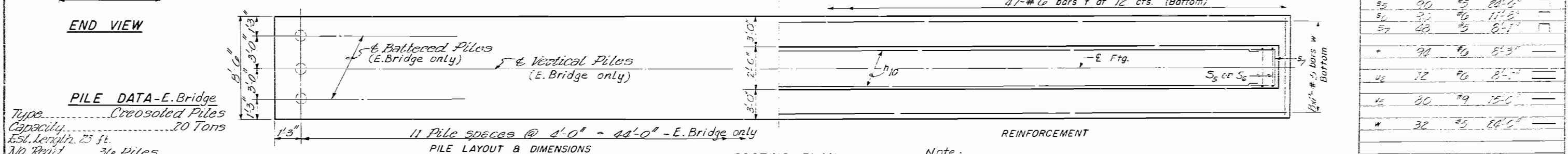
ROUTE NO.	SECTION	TOTAL SHEETS	SHEET NO.
57	IROQUOIS	54	40

13 SHEETS

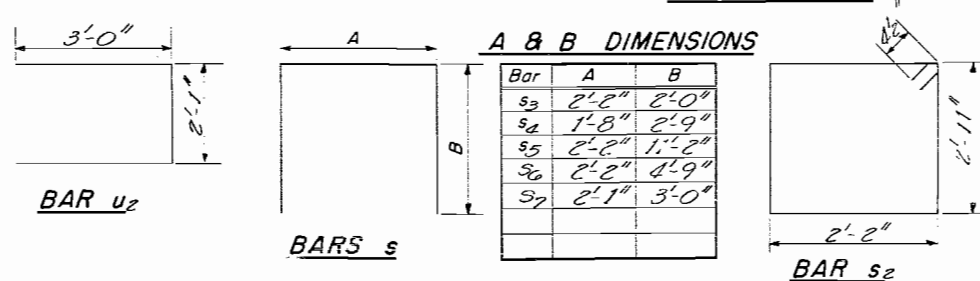


**TWO PIERS
BILL OF MATERIAL**

Bar	No	Size	Length	Shape
n_9	10	#5	30'-9"	—
h_{10}	68	#5	23'-0"	—
h_{11}	10	#6	23'-5"	—
n_1	80	#9	9'-0"	—
p_3	6	#8	28'-0"	—
p_4	32	#10	18'-0"	—
p_5	10	#8	24'-0"	—
s_2	10	#5	7'-0"	—
s_5	92	#5	10'-11"	—
s_6	112	#5	6'-2"	—
s_7	208	#5	7'-2"	—
s_8	90	#5	28'-0"	—
s_9	30	#6	11'-2"	—
s_{10}	48	#5	8'-1"	—
t	94	#6	8'-3"	—
v_5	12	#6	8'-2"	—
w	80	#9	15'-0"	—
x	32	#5	24'-0"	—
Class X Concrete Cu. Yds. 285.3				
Reinforcement Bars Lbs. 23,850				
Crested Piles Lin. Ft. 5-5				



FOOTING PLAN



Note:
Pier 1 - W. Bridge Footing on spread footing
Max. Design Ftg. Pressure - W. Bridge Ftg. = 3.5 kips per Sq. Ft.

Note:
Space reinforcement in cap to miss anchor bolts.
Min. bar laps = 20 dia. unless otherwise noted.
All edges shall have standard 3/4" chamfers except as noted.
Pour steps monolithically with cap.

Note: Bars designated thus 8 x 2'-5 etc, indicate 8 lines of bars with 2 lengths per line.

E. & W. BRIDGES-PIER 1
F.A.I. RT. 57 SEC. 38-5VB-1
IROQUOIS COUNTY
STATION 604 + 54.72

DESIGNED	J. G. Sauter	SEPT. 14 1965	
CHECKED	W. A. Sausaman Jr.	EXAMINED	C. E. Hummer
DRAWN	W. A. Sausaman Jr.	PASSED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
CHECKED	S. E. G. M.	APPROVED	ENGINEER OF BRIDGE

