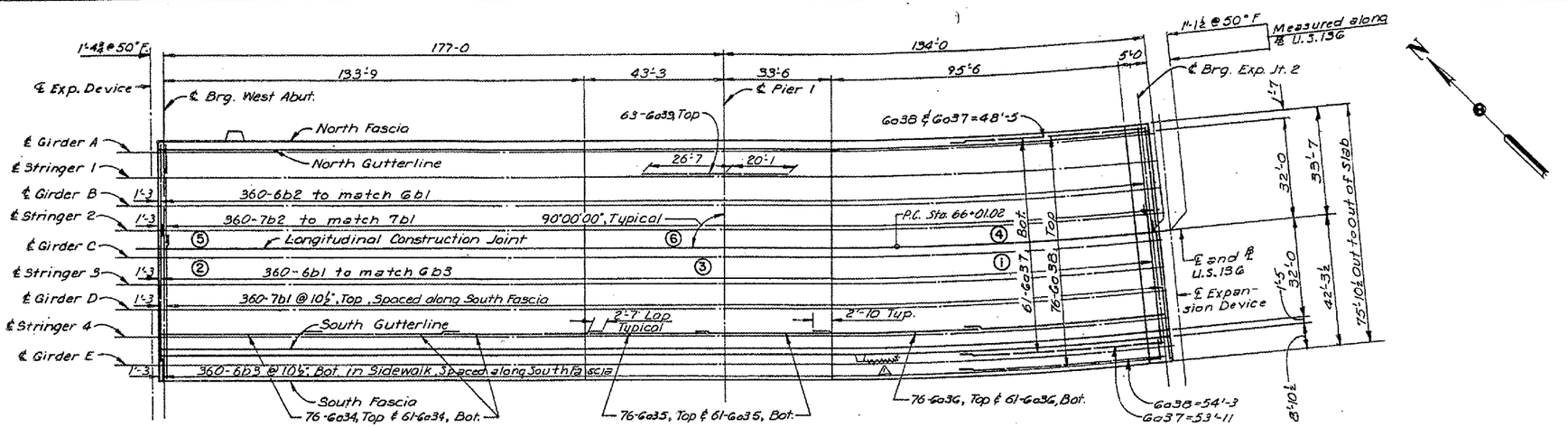
FEDERAL DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IOWA			13	40
	ILLINOIS				



CONCRETE PLACEMENT AND SLAB REINFORCEMENT PLAN – UNIT 1

TOP OF CONCRETE PAVEMENT ELEVATIONS UNIT 1

LOCATION	W. Abut.	.10	.20	.30	.40	.50	.60	.70	.80	.90	FS 1	.10	.20	.30	.40	.50	.60	.70	.80	.90	FS 2	.10	.20
Girder A	566.17	565.97	565.79	565.62	565.47	565.33	565.21	565.11	565.01	564.92	564.81	564.70	564.57	564.43	564.29	564.14	564.00	563.86	563.71	563.57	563.42	563.31	563.19
Stringer 1	566.34	566.14	565.96	565.79	565.64	565.50	565.38	565.27	565.18	565.09	564.99	564.89	564.78	564.66	564.54	564.42	564.30	564.18	564.05	563.93	563.81	563.71	563.62
Girder B	566.50	566.30	566.12	565.95	565.80	565.67	565.54	565.44	565.34	565.26	565.17	565.08	564.99	564.89	564.79	564.70	564.60	564.50	564.40	564.30	564.20	564.12	564.04
Stringer 2	566.67	566.47	566.29	566.12	565.97	565.83	565.71	565.60	565.51	565.43	565.34	565.27	565.20	565.12	565.05	564.97	564.90	564.82	564.74	564.67	564.59	564.53	564.47
Girder C	566.74	566.55	566.38	566.22	566.07	565.95	565.83	565.74	565.65	565.58	565.52	565.46	565.41	565.36	565.30	565.25	565.19	565.14	565.09	565.03	564.98	564.94	564.89
Stringer 3	566.62	566.46	566.31	566.18	566.07	565.97	565.88	565.81	565.76	565.72	565.68	565.65	565.62	565.59	565.55	565.52	565.49	565.46	565.43	565.40	565.37	565.34	565.32
Girder D	566.50	566.36	566.25	566.15	566.06	565.99	565.93	565.89	565.87	565.85	565.84	565.83	565.83	565.82	565.81	565.80	565.79	565.78	565.77	565.76	565.76	565.75	565.74
Stringer 4	566.38	566.27	566.18	566.11	566.05	566.01	565.98	565.97	565.97	565.99	566.01	566.02	566.03	566.05	566.06	566.08	566.09	566.10	566.12	566.13	566.14	566.16	566.17
Girder E	566.26	566.18	566.12	566.08	566.05	566.03	566.03	566.05	566.08	566.12	566.17	566.21	566.24	566.28	566.31	566.35	566.39	566.42	566.46	566.50	566.53	566.56	566.59

TOP OF CONCRETE PAVEMENT ELEVATIONS UNIT 1

LOCATION	.30	.40	.50	.60	.70	.80	.90	Exp. Jt.
Girder A	563.08	562.96	562.85	562.74	562.62	562.51	562.39	562.28
Stringer 1	563.52	563.42	563.33	563.23	563.13	563.04	562.94	562.85
Girder B	563.96	563.89	563.81	563.73	563.65	563.57	563.49	563.41
Stringer 2	564.41	564.35	564.29	564.22	564.16	564.10	564.04	~~564.38~~
Girder C	564.85	564.81	564.76	564.72	564.68	564.64	564.59	564.55
Stringer 3	565.29	565.27	565.24	565.22	565.19	565.17	565.14	565.12
Girder D	565.74	565.73	565.72	565.71	565.71	565.70	565.69	~~565.79~~
Stringer 4	566.18	566.19	566.20	566.21	566.22	566.23	566.24	566.25
Girder E	566.62	566.65	566.68	566.71	566.74	566.77	566.79	566.82

5G3.98 ⚠ 5G5.69 ⚠

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
Structural Concrete (Class D)	Cu. Yds.	648.7
Reinforcing Steel - Non Epoxy Coated	Lbs.	73,378
Reinforcing Steel - Epoxy Coated*	Lbs.	120,029
Structural Steel - A36	Lbs.	550,143
Structural Steel - A572	Lbs.	358,661
Structural Steel - A588	Lbs.	48,093
N. and S. Barrier Rail	Lin. Ft.	626.4
Median Barrier Rail	Lin. Ft.	313.2

*Includes 240 lbs. of reinforcing steel in light blisters, and 400 lbs. of reinforcing steel at drainage inlets.

BENCH MARKS

PMB No. 2 Found chiseled "□" in T/Conc. @ east end of retaining wall, south side of Highway 136, east end of Keokuk-Hamilton River Bridge. Elev. 505.06

PMB No. 6 S.E. corner of light base on the N.W. corner of the intersection of Water and Main Street in Keokuk. Elev. 509.32

PMB No. 7 S.E. corner — base of traffic light — N.E. corner of 3rd and Main in Keokuk. Elev. 579.17

CURVE DATA

P. I. Sta. 69+14.85
Δ = 33°31'48.3"
D = 5°30'00.0"
T = 313.83
L = 609.64
E = 46.24
R = 1041.74

Notes:
Roadway slab shall be placed in sections and in the sequence indicated by circled numbers at intervals not exceeding 24 hours.
Alternate pocedures for placing concrete may be submitted for approval together with a statement of the proposed method and evidence that the contractor possesses the necessary equipment and facilities to accomplish the required results.
The transverse construction joints shall be placed parallel to the adjacent ℄ pier. preferably ⚠
For detail of slab construction joint, see Sheet 65
For detail of longitudinal bar spacing, see Sheet 65
For "Light Pole Base Details", see Sheet 106
For "Drain Details", see Sheet 98 and 99
For location of drains see Sheet 24 and 25
"Top of Concrete Pavement Elevations" are shown at 1/10 points between Exp. Jt. 1 and F.S. 1 at 1/10 points between Exp. Jts. and at 1/10 points between F.S. 2 and Exp. Jt. 2.
F.S. denotes Field Splice.
Exp. Jt. denotes Expansion Joint.
5'-0 each side of Joint 2 shall be poured after both Unit 1 and 2 are completed and expansion joint is in place.

CONCRETE PLACEMENT QUANTITIES

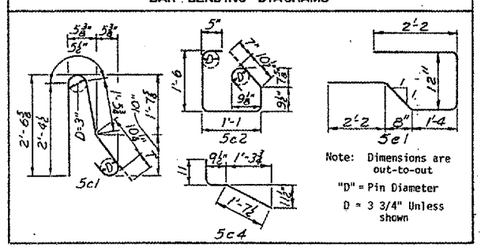
UNIT 1

POUR	CU. YDS.
1	116.4
2	151.4
3	87.6
4	94.2
5	126.1
6	72.7
Light Blister	.3
Total	648.7

BILL OF REINFORCEMENT

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
		NON-EPOXY COATED BARS			
6a34	Longitudinal	——	183	47'-7	13,079
6a35	Longitudinal	——	122	39'-6	7,238
6a36	Longitudinal	——	61	55'-4	5,070
6a37	Longitudinal	——	61	Varies	4,688
6b1	Transverse	——	360	44'-5	24,017
6b2	Transverse	——	360	29'-3	15,816
6b3	Transverse	——	360	6'-5	3,470
			TOTAL		73,378
		EPOXY COATED BARS			
6a34	Longitudinal	——	228	47'-7	16,295
6a35	Longitudinal	——	152	39'-6	9,018
6a36	Longitudinal	——	76	55'-4	6,316
6a38	Longitudinal	——	76	Varies	5,960
6a39	Long. over Piers	——	63	46'-8	4,416
7b1	Transverse	——	360	45'-3	33,297
7b2	Transverse	——	360	33'-9	24,835
5c1	Curb, Transverse	⌐	625	5'-9	3,748
5c2	Curb, Transverse	⌐	625	5'-3	3,422
5c3	Curb, Transverse	——	626	2'-7	1,687
5c4	Curb, Transverse	⌐	626	3'-4	2,176
5d6	Curb, Longitudinal	——	49	45'-11	2,347
5d7	Curb, Longitudinal	——	49	46'-4	2,368
5d8	Curb, Longitudinal	——	49	45'-7	2,330
5e1	End Beam	⌐	112	7'-7	886
5e2	End Beam	——	48	7'-9	388
			TOTAL		119,389

BAR BENDING DIAGRAMS



MISSISSIPPI RIVER BRIDGE
KEOKUK, IOWA - HAMILTON, ILLINOIS

STEEL ALTERNATE
DESIGN FOR 0° SKEW
3340' × 64' CONTINUOUS WELDED PLATE GIRDER BRIDGE
SLAB PLAN - UNIT 1

STA. 80+40.00
RIVER MILE 363.9
LEE COUNTY, IOWA

PROJECT NO. BRF-19-1(3)--38-56
HANCOCK COUNTY, ILLINOIS

DESIGN SHEET 64 OF

DESIGN NO. 282 LEE COUNTY FILE 25723 SHEET 70 OF 227

HOWARD NEEDLES TAMMEN & BERGENDOFF HNTB

MADE RCC DATE 6-82 CHECKED DLM DATE 7-82

Revised (12-8-83) Top of concrete pavement elevations corrected as marked by ⚠

Revision (5-31-83) Telephone conduit base deleted & 1st paragraph of Notes revised as marked by ⚠.

6767-25-00

FOR INFORMATION ONLY