

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BUREAU OF BRIDGES

BRIDGE ANALYSIS AND RATING REPORT

STRUCTURE IDENTIFICATION DATA

"BARS" File Number 210084 Year Built 1955
Bridge Number DEL 36 0502
County DEL Route No. 36 SLM 0502 Sp. Des.
Structure Type Steel Beam Continuous
Feature Crossed Scioto River
O/A Structure Length 362.2 Ft. No. of Spans 4
Inspection Agency ODOT Maintenance Agency ODOT
Date of Analysis 12/28/84 Data Submitted by D.6

LIVE LOADS APPLIED

Standard AASHTO Truck(s) Used: Operating 3FT1 Inventory H525

Ohio Legal and Other Standard Vehicle Configuration(s) used:

Vehicle Code No.	Class Code	GVW (Tons)	Vehicle Code No.	Class Code	GVW (Tons)
#1. <u>4S1</u>	<u>S</u>	<u>29</u>	#4. <u> </u>	<u> </u>	<u> </u>
#2. <u>5C3</u>	<u>C</u>	<u>46</u>	#5. <u> </u>	<u> </u>	<u> </u>
#3. <u>6T1</u>	<u>T</u>	<u>40</u>	#6. <u> </u>	<u> </u>	<u> </u>

Class Codes: Single Vehicle - "S", Semi-Trailer Combination - "C",
Truck and Full Trailer - "T"

Special Standard Vehicle(s) Used: (Check "Yes" or "No")

School Bus: Yes ✓ No Emerg. Vehicle: Yes ✓ No

Other Special Vehicle(s) Used: (Show sketch(s) including all axle
loads and spacings)

SFN

2100843

BR. NO.

DEL-36-0502

REC. NO.	RECORD	REC. NO.
01	122884 TAF D-6	100
03	1SPEC02 6.0	200
03	13FT103 14.	300
02210084	TAF DISTRICT 6	100
05210084	0502FDEL	200
062100841	DEL-36-0502 OVER SCIOTO RIVER	201
062100842	4 SPAN CONTINUOUS STEEL DECK PLATE GIRDER	202
062100843	2.5" SUPERPLASTICIZED DENSE CONCRETE	203
062100844	25 DEG SKEW LOADING CF=130	204
062100845	STANDARD DRAWING RB-1-47 REVISED 7-27-49	205
08210084601	04	800
08210084601	01	901
10210084601	02	902
10210084601	03	903
10210084601	04	904
11210084601	0101	1400
11210084601	0102	1500
11210084601	0103	1600
11210084601	0104	1700
11210084601	0201	1800
11210084601	0202	1900
11210084601	0203	2000
11210084601	0204	2100
11210084601	0205	2200
11210084601	0206	2300
11210084601	0301	2400
11210084601	0302	2500
11210084601	0303	2600
11210084601	0304	2700
11210084601	0305	2800
11210084601	0306	2900
11210084601	0401	3000
11210084601	0403	3200
11210084601	0404	3300
11210084601	0402	3301
12210084601		3400
12210084601		3500
12210084601		3600
12210084601		3700
12210084601		3800
12210084601		3900
12210084601		4000
12210084601		4100
12210084601		4200
12210084601		4300
12210084601		4400
12210084601		4500
12210084601		4600
12210084601		4700
12210084601		4800

12210084601	RECORD	06 9.00	0.	.62	REC.NO.	4900
12210084601	03	07 6.75	0.	.19		5000
12210084601	04	77.2501 6.75	0.	77.06		5100
12210084601	04	02 9.00	0.	76.62		5200
12210084601	04	0316.72	52.7	74.85		5300
12210084601	04	0428.12 13184.	38.62			5400
12210084601	04	0516.72	52.7	2.39		5500
12210084601	04	06 9.00	0.	.62		5600
12210084601	04	07 6.75	0.	.19		5700
12210084601	05	71.8401 9.00	0.	71.59		5800
12210084601	05	02 9.00	0.	71.09		5900
12210084601	05	0316.72	52.7	69.32		6000
12210084601	05	0426.00 10418.	35.92			6100
12210084601	05	0516.72	52.7	2.52		6200
12210084601	05	06 9.00	0.	.75		6300
12210084601	05	07 9.00	0.	.25		6400
12210084601	06	77.501 9.00	0.	77.25		6500
12210084601	06	02 9.00	0.	76.75		6600
12210084601	06	0316.72	52.7	74.98		6700
12210084601	06	0428.12 13184.	38.75			6800
12210084601	06	08 6.00H	0.	70.84		6900
12210084601	06	0516.72	52.7	2.52		7000
12210084601	06	06 9.00	0.	.75		7100
12210084601	06	07 9.00	0.	.25		7200
12210084601	06	06 4.50H	0.	36.94		7300
12210084601	01	07 4.50H	0.	.56		7400
12210084601	01	06 4.50H	0.	70.27		7500
12210084601	02	07 4.50H	0.	.56		7600
12210084601	02	09 6.00H	0.	.75		7700
12210084601	03	08 6.00H	0.	76.50		7800
12210084601	04	09 6.00H	0.	.75		7900
12210084601	04	09 6.50H	0.	.81		8000
12210084601	05	08 6.50H	0.	76.68		8100
12210084601	06	09 6.50H	0.	.81		8200
12210084601	06					8300

STRUCTURE I.D. = 210-084

STRUCTURE HEADER AND DESCRIPTION

100-- 2 TAF DISTRICT 6 EA/I/O/P = FILE REQUESTS AND OUTPUT DATA EXCEPTIONS
TYPE = SBC YEAR = 55 LEN = 362.200FT. WIDTH = 28.000FT. 4 SPANS SP. LOAD =
INV. LL. TRK. = OP. LL. TRK. =

STRUCTURE LOCATION AND PERMANENT IDENTIFICATION FACTORS

200-- 5 BRIDGE= 0502 DIST./CO. = F DEL CONST. ROUTE = 36 CONST. SECT. = 437 CONST. STA. = 0+
MICROFILM REEL NO. DESIGN PLANS= COMPUTATIONS= CORRESPONDENCE=
ROUTE I.D. = MARKED ROUTE =

COMMENTS

201-- 6 1 DEL-36-0502 OVER SCIOTO RIVER
202-- 6 2 4 SPAN CONTINUOUS STEEL DECK PLATE GIRDER 7.5" CONCRETE DECK
203-- 6 3 2.5" SUPERPLASTICIZED DENSE CONCRETE SPEC= SCHOOL BUS
204-- 6 4 25 DEG SKEW LOADING CF=130
205-- 6 5 STANDARD DRAWING RB-1-47 REVISED 7-27-49

MEMBER SPECIFICATIONS AND REQUIRED ANALYSIS GIRDER, STRINGER AND FLOOR BEAM

MEMBER ID	SPANS	STIFF.	SPAN 1	SPAN 2	SPAN 3	MATL	ALLOWABLE STRESS	LL DIST.	END THRU	MAX INV	IMPACT	FACTOR			
ID	SYMM CODE (SPAN 4)	(SPAN 5)	(SPAN 6)	CODE	FY	FB	FC*	FC**	FACTOR	FL. BM	DECK	INV	OP.	POST	SPEC
800-- 8	G 1	4	74.000	106.000	106.000	SS	0.0	0.0	1.758	.0	.0	.0	.0	.0	.0
900-- 8	G 1	0	74.000	0.0	0.0	SS	0.0	0.0	1.758	.0	.0	.0	.0	.0	.0

SUPERIMPOSED DEAD LOADS-GIRDERS, STRINGERS AND FLOOR BEAMS

MEMBER ID	SYMM	SPAN NO.	DISTANCE LEFT	FR. SUPP.	LOAD TYPE	P	OR W(L)	LOAD W(R)	LENGTH
901--10	G 1	1	0.0	FT.	W		1496.0	0.0	74.000FT.
902--10	G 1	2	0.0	FT.	W		1496.0	0.0	106.000FT.

903--10 G 1 3 0.0 FT. W 1496.0 0.0 106.000FT.
904--10 G 1 4 0.0 FT. W 1496.0 0.0 74.000FT.

SECTION RANGE SPECIFICATIONS

MEMBER ID	SYMM.	SPAN NO.	RANGE NO.	RANGE LENGTH	SECTION NO.	SEC.	VAR.	HINGE CODE	HINGE 1 DIST.	HINGE 2 DIST.	CODE	FY	GIRDER CODE	FY
1400--11	G 1	1	1	21.000FT.	1	0			0.0 FT.	0.0 FT.		0.		0.
1500--11	G 1	1	2	45.000FT.	1	2		PB	0.0 FT.	0.0 FT.		0.		0.
1600--11	G 1	1	3	5.000FT.	3	4		PB	0.0 FT.	0.0 FT.		0.		0.
1700--11	G 1	1	4	3.000FT.	4	0			0.0 FT.	0.0 FT.		0.		0.
1800--11	G 1	2	1	3.000FT.	4	0			0.0 FT.	0.0 FT.		0.		0.
1900--11	G 1	2	2	5.000FT.	4	3		PB	0.0 FT.	0.0 FT.		0.		0.
2000--11	G 1	2	3	45.000FT.	2	1		PB	0.0 FT.	0.0 FT.		0.		0.
2100--11	G 1	2	4	45.000FT.	1	2		PB	0.0 FT.	0.0 FT.		0.		0.
2200--11	G 1	2	5	5.000FT.	5	6		PB	0.0 FT.	0.0 FT.		0.		0.
2300--11	G 1	2	6	3.000FT.	6	0			0.0 FT.	0.0 FT.		0.		0.
2400--11	G 1	3	1	3.000FT.	6	0			0.0 FT.	0.0 FT.		0.		0.
2500--11	G 1	3	2	5.000FT.	6	5		PB	0.0 FT.	0.0 FT.		0.		0.
2600--11	G 1	3	3	45.000FT.	2	1		PB	0.0 FT.	0.0 FT.		0.		0.
2700--11	G 1	3	4	45.000FT.	1	2		PB	0.0 FT.	0.0 FT.		0.		0.
2800--11	G 1	3	5	5.000FT.	3	4		PB	0.0 FT.	0.0 FT.		0.		0.
2900--11	G 1	3	6	3.000FT.	4	0			0.0 FT.	0.0 FT.		0.		0.
3000--11	G 1	4	1	3.000FT.	4	0			0.0 FT.	0.0 FT.		0.		0.
3301--11	G 1	4	2	5.000FT.	4	3		PB	0.0 FT.	0.0 FT.		0.		0.
3200--11	G 1	4	3	45.000FT.	2	1		PB	0.0 FT.	0.0 FT.		0.		0.
3300--11	G 1	4	4	21.000FT.	1	0			0.0 FT.	0.0 FT.		0.		0.

SECTION PROPERTIES (STEEL OR TIMBER) - GIRDERS, STRINGERS, FLOOR BEAMS

MEMBER ID	SEC.	A	I	S	COMPACT SEC.	SAME	ADR H	I	A	IX	DY	DX
3400--12	G 1	0	0.0	0.0			37.50	1	9.00	0.0	37.3	0.0
3500--12	G 1	0	0.0	0.0			0.0	2	16.72	52.7	35.5	0.0
3600--12	G 1	0	0.0	0.0			0.0	3	13.50	1458.0	18.8	0.0
3700--12	G 1	0	0.0	0.0			0.0	4	16.72	52.7	2.0	0.0
3800--12	G 1	0	0.0	0.0			0.0	5	9.00	0.0	0.3	0.0
7400--12	G 1	0	0.0	0.0			0.0	6	4.50H	0.0	36.9	0.0
7500--12	G 1	0	0.0	0.0			0.0	7	4.50H	0.0	0.6	0.0
3900--12	G 1	0	0.0	0.0			70.84	1	9.00	0.0	70.6	0.0
4000--12	G 1	0	0.0	0.0			0.0	2	16.72	52.7	68.8	0.0
4100--12	G 1	0	0.0	0.0			0.0	3	26.00	10418.0	35.4	0.0
4200--12	G 1	0	0.0	0.0			0.0	4	16.72	52.7	2.0	0.0
4300--12	G 1	0	0.0	0.0			0.0	5	9.00	0.0	0.3	0.0
7600--12	G 1	0	0.0	0.0			0.0	6	4.50H	0.0	70.3	0.0
7700--12	G 1	0	0.0	0.0			0.0	7	4.50H	0.0	0.6	0.0
4400--12	G 1	0	0.0	0.0			71.59	1	6.75	0.0	71.4	0.0
4500--12	G 1	0	0.0	0.0			0.0	2	9.00	0.0	71.0	0.0
4600--12	G 1	0	0.0	0.0			0.0	3	16.72	52.7	69.2	0.0
4700--12	G 1	0	0.0	0.0			0.0	4	26.00	10418.0	35.8	0.0
4800--12	G 1	0	0.0	0.0			0.0	5	16.72	52.7	2.4	0.0
4900--12	G 1	0	0.0	0.0			0.0	6	9.00	0.0	0.6	0.0
5000--12	G 1	0	0.0	0.0			0.0	7	6.75	0.0	0.2	0.0
7000--12	G 1	0	0.0	0.0			0.0	8	6.00H	0.0	70.8	0.0
7800--12	G 1	0	0.0	0.0			0.0	9	6.00H	0.0	0.8	0.0
5100--12	G 1	0	0.0	0.0			77.25	1	6.75	0.0	77.1	0.0

5200--12	G 1	0	0.0	0.0	0.0	0.0	0.0	4	0	0.0	2	9.00	0.0	76.6	0.0
5300--12	G 1	0	0.0	0.0	0.0	0.0	0.0	4	0	0.0	3	16.72	52.7	74.8	0.0
5400--12	G 1	0	0.0	0.0	0.0	0.0	0.0	4	0	0.0	4	28.12	13184.0	38.6	0.0
5500--12	G 1	0	0.0	0.0	0.0	0.0	0.0	4	0	0.0	5	16.72	52.7	2.4	0.0
5600--12	G 1	0	0.0	0.0	0.0	0.0	0.0	4	0	0.0	6	9.00	0.0	0.6	0.0
5700--12	G 1	0	0.0	0.0	0.0	0.0	0.0	4	0	0.0	7	6.75	0.0	0.2	0.0
7900--12	G 1	0	0.0	0.0	0.0	0.0	0.0	4	0	0.0	8	6.00H	0.0	76.5	0.0
8000--12	G 1	0	0.0	0.0	0.0	0.0	0.0	4	0	0.0	9	6.00H	0.0	0.8	0.0
5800--12	G 1	0	0.0	0.0	0.0	0.0	71.84	5	0	0.0	1	9.00	0.0	71.6	0.0
5900--12	G 1	0	0.0	0.0	0.0	0.0	0.0	5	0	0.0	2	9.00	0.0	71.1	0.0
6000--12	G 1	0	0.0	0.0	0.0	0.0	0.0	5	0	0.0	3	16.72	52.7	69.3	0.0
6100--12	G 1	0	0.0	0.0	0.0	0.0	0.0	5	0	0.0	4	26.00	10418.0	35.9	0.0
6200--12	G 1	0	0.0	0.0	0.0	0.0	0.0	5	0	0.0	5	16.72	52.7	2.5	0.0
6300--12	G 1	0	0.0	0.0	0.0	0.0	0.0	5	0	0.0	6	9.00	0.0	0.8	0.0
6400--12	G 1	0	0.0	0.0	0.0	0.0	0.0	5	0	0.0	7	9.00	0.0	0.3	0.0
6700--12	G 1	0	0.0	0.0	0.0	0.0	0.0	5	0	0.0	8	6.50H	0.0	71.0	0.0
8100--12	G 1	0	0.0	0.0	0.0	0.0	0.0	5	0	0.0	9	6.50H	0.0	0.8	0.0
6500--12	G 1	0	0.0	0.0	0.0	0.0	77.50	6	0	0.0	1	9.00	0.0	77.3	0.0
6600--12	G 1	0	0.0	0.0	0.0	0.0	0.0	6	0	0.0	2	9.00	0.0	76.8	0.0
6800--12	G 1	0	0.0	0.0	0.0	0.0	0.0	6	0	0.0	3	16.72	52.7	75.0	0.0
6900--12	G 1	0	0.0	0.0	0.0	0.0	0.0	6	0	0.0	4	28.12	13184.0	38.8	0.0
7100--12	G 1	0	0.0	0.0	0.0	0.0	0.0	6	0	0.0	5	16.72	52.7	2.5	0.0
7200--12	G 1	0	0.0	0.0	0.0	0.0	0.0	6	0	0.0	6	9.00	0.0	0.8	0.0
7300--12	G 1	0	0.0	0.0	0.0	0.0	0.0	6	0	0.0	7	9.00	0.0	0.3	0.0
8200--12	G 1	0	0.0	0.0	0.0	0.0	0.0	6	0	0.0	8	6.50H	0.0	76.7	0.0
8300--12	G 1	0	0.0	0.0	0.0	0.0	0.0	6	0	0.0	9	6.50H	0.0	0.8	0.0

SUMMARY OF RATING CALCULATIONS-----STRUCTURE MEMBER
INVENTORY AND/OR OPERATING ANALYSIS

INPUT CODING --

STRUCTURE 0502

D/P STR. I.D.-- 210-084

DATE 12/28/84
BY TAF DISTRICT 6

INVENTORY
LIVE LOAD RATING

OPERATING
LIVE LOAD RATING

HS25 HS13.81 3FT1 40.69 TONS

STRUCTURE DESCRIPTION --

LOCATION --

MICROFILM REEL NUMBERS --

IDENTIFICATION 210-084
TYPE SBC
YEAR OF CONSTR. 1955
LENGTH 362.20 FEET
ROADWAY WIDTH 28.00 FEET
NUMBER OF SPANS 4

DISTRICT F
COUNTY DEL
CONSTR. RTE. 36
CONSTR. SEC. 437
CONSTR. STA. 0+
KEY RTE.
MARKED RTE.

DESIGN PLANS
COMPUTATIONS
CORRESPONDENCE

ANALYST REMARKS --

DEL-36-0502 OVER SCIOTO RIVER
4 SPAN CONTINUOUS STEEL DECK PLATE GIRDER 7.5" CONCRETE DECK
2.5" SUPERPLASTICIZED DENSE CONCRETE SPEC= SCHOOL BUS
25 DEG SKEW LOADING CF=130
STANDARD DRAWING RB-1-47 REVISED 7-27-49

INVENTORY RATING SUMMARY --

MEMBER ID. G 1
SPAN 2
CRITICAL C.P. DIST. 53.0 FEET
LIVE LOAD DESIGNATION HS25

OPERATING RATING SUMMARY --

MEMBER ID. G 1
SPAN 3
CRITICAL C.P. DIST. 53.0 FEET
LIVE LOAD DESIGNATION 3FT1

MEMBER CAPACITY (FT. KIPS)
DL EFFECT 1155.3
527.6

MEMBER CAPACITY (FT. KIPS)
DL EFFECT 1604.5
527.6

CAPACITY FOR (LL+I) 627.6
ACTUAL (LL+I) 1135.9

CAPACITY FOR (LL+I) 1076.9
ACTUAL (LL+I) 635.2

INVENTORY RATING HS13.81

OPERATING RATING 40.69 TONS

SUMMARY OF RATING CALCULATIONS-----STRUCTURE MEMBER
POSTING ANALYSIS

INPUT CODING --

STRUCTURE 0502

D/P STR. I.D.-- 210-084

DATE 12/28/84	INVENTORY	RATING	LIVE LOAD	OPERATING	RATING	TRUCK TYPE	POSTING	GROSS TONS
BY TAF DISTRICT 6								
HS25	HS13.81	3FT1	40.69	TONS	VEH. 4S1	39.59		
					VEH. 5C3	53.96		
					VEH. 6T1	45.00		

STRUCTURE DESCRIPTION --

LOCATION --

MICROFILM REEL NUMBERS --

IDENTIFICATION	210-084	DISTRICT	F	DESIGN PLANS
TYPE	SBC	COUNTY	DEL	COMPUTATIONS
YEAR OF CONSTR.	1955	CONSTR. RTE.	36	CORRESPONDENCE
LENGTH	362.20 FEET	CONSTR. SEC.	437	
ROADWAY WIDTH	28.00 FEET	CONSTR. STA.	0+ .	
NUMBER OF SPANS	4	KEY RTE.		
		MARKED RTE.		

ANALYST REMARKS --

DEL-36-0502 OVER SCIOTO RIVER
4 SPAN CONTINUOUS STEEL DECK PLATE GIRDER 7.5" CONCRETE DECK
2.5" SUPERPLASTICIZED DENSE CONCRETE SPEC= SCHOOL BUS
25 DEG SKEW LOADING CF=130
STANDARD DRAWING RB-1-47 REVISED 7-27-49

TRUCK TYPE VEH.	4S1	TRUCK TYPE VEH.	5C3	TRUCK TYPE VEH.	6T1
MEMBER ID.	G 1	MEMBER ID.	G 1	MEMBER ID.	G 1
SPAN	2	SPAN	2	SPAN	3
CRITICAL C.P. DIST.	53.0 FEET	CRITICAL C.P. DIST.	53.0 FEET	CRITICAL C.P. DIST.	53.0 FEET

MEMBER CAPACITY	(FT. KIPS)	MEMBER CAPACITY	(FT. KIPS)	MEMBER CAPACITY	(FT. KIPS)
DL EFFECT	1604.5	DL EFFECT	1604.5	DL EFFECT	1604.5
	527.6		527.6		527.6

CAPACITY FOR (LL+I)	1076.9	CAPACITY FOR (LL+I)	1076.9	CAPACITY FOR (LL+I)	1076.9
ACTUAL (LL+I)	788.8	ACTUAL (LL+I)	798.2	ACTUAL (LL+I)	957.2
POSTING GROSS TONNAGE	39.6	POSTING GROSS TONNAGE	54.0	POSTING GROSS TONNAGE	45.0

SUMMARY OF RATING CALCULATIONS-----STRUCTURE MEMBER
SPECIAL LOAD ANALYSIS

INPUT CODING --

STRUCTURE 0502

D/P STR. I.D.-- 210-084

DATE 12/28/84	INVENTORY	OPERATING	SPECIAL LOAD
BY TAF DISTRICT 6	LIVE LOAD	RATING	TRUCK TYPE GROSS TONS
HS25	HS13.81	3FT 1	40.69 TONS
		VEH. SPEC	38.43

STRUCTURE DESCRIPTION --

LOCATION --

MICROFILM REEL NUMBERS --

IDENTIFICATION 210-084
TYPE SBC
YEAR OF CONSTR. 1965
LENGTH 362.20 FEET
ROADWAY WIDTH 28.00 FEET
NUMBER OF SPANS 4

DISTRICT F
COUNTY DEL
CONSTR. RTE. 36
CONSTR. SEC. 437
CONSTR. STA. 0+
KEY RTE.
MARKED RTE.

DESIGN PLANS
COMPUTATIONS
CORRESPONDENCE

ANALYST REMARKS --

DEL-36-0502 OVER SCIOTO RIVER
4 SPAN CONTINUOUS STEEL DECK PLATE GIRDER 7.5" CONCRETE DECK
2.5" SUPERPLASTICIZED DENSE CONCRETE SPEC= SCHOOL BUS
25 DEG SKEW LOADING CF=130
STANDARD DRAWING RB-1-47 REVISED 7-27-49

TRUCK TYPE VEH. SPEC G 1
MEMBER ID. 2
CRITICAL C.P. DIST. 53.0 FEET

MEMBER CAPACITY (FT. KIPS)
DL EFFECT 1604.5
527.6

CAPACITY FOR (LL+I) 1076.9
ACTUAL (LL+I) 364.3
POSTING GROSS TONNAGE 38.4

SUMMARY OF RATING CALCULATIONS-----STRUCTURE INVENTORY AND/OR OPERATING ANALYSIS

D/P STR. ID-- 210--084

INPUT CODING--

DATE 12/28/84
BY TAF DISTRICT 6

INVENTORY
LIVE LOAD RATING
HS25 HS13.8
OPERATING
LIVE LOAD RATING
3FT1 40.69 TONS

STRUCTURE DESCRIPTION--

IDENTIFICATION 0502
TYPE SBC
YEAR OF CONSTR. 1955
LENGTH 362.200 FEET
ROADWAY WIDTH 28.000 FEET
NUMBER OF SPANS 4

LOCATION--

DISTRICT F
COUNTY DEL
CONSTR. RTE. 36
CONSTR. SEC. 437
CONSTR. STA. 0+
KEY RTE.
MARKED RTE.

MICROFILM REEL NUMBERS--

DESIGN PLANS
COMPUTATIONS
CORRESPONDENCE

ANALYST REMARKS--

DEL-36-0502 OVER SCIOTO RIVER
4 SPAN CONTINUOUS STEEL DECK PLATE GIRDER 7.5" CONCRETE DECK
2.5" SUPERPLASTICIZED DENSE CONCRETE SPEC= SCHOOL BUS
25 DEG SKEW LOADING CF=130
STANDARD DRAWING RB-1-47 REVISED 7-27-49

INVENTORY RATING SUMMARY
MEMBER I.D. G 1
SPAN 2
CRITICAL C.P. DIST. 53.0 FEET
LIVE LOAD DESIGNATION HS25

OPERATING RATING SUMMARY
MEMBER I.D. G 1
SPAN 3
CRITICAL C.P. DIST. 53.0 FEET
LIVE LOAD DESIGNATION 3FT1

MEMBER CAPACITY (FOOT-KIPS)
DL EFFECT 1155.3
527.6

MEMBER CAPACITY (FOOT-KIPS)
DL EFFECT 1604.5
527.6

CAPACITY FOR (LL+I) 627.6
ACTUAL (LL+I) 1135.9

CAPACITY FOR (LL+I) 1076.9
ACTUAL (LL+I) 635.2

INVENTORY RATING HS13.81

OPERATING RATING 40.69 TONS

SUMMARY OF RATING CALCULATIONS-----STRUCTURE POSTING ANALYSIS

D/P STR. ID-- 210--084

INPUT CODING--

DATE 12/28/84
BY TAF DISTRICT 6

STRUCTURE 0502

INVENTORY

LIVE LOAD

RATING

LIVE LOAD

RATING

TRUCK TYPE

GROSS TONS

HS25

HS13.8

3FT1

40.69 TONS

VEH. 4S1

39.6

VEH. 5C3

54.0

VEH. 6T1

45.0

STRUCTURE DESCRIPTION--

LOCATION--

MICROFILM REEL NUMBERS--

IDENTIFICATION
TYPE
YEAR OF CONSTR.
LENGTH
ROADWAY WIDTH
NUMBER OF SPANS

0502
SBC
1955
362.200 FEET
28.000 FEET
4

DISTRICT
COUNTY
CONSTR. RTE.
CONSTR. SEC.
CONSTR. STA.
KEY RTE.
MARKED RTE.

F
DEL
36
437
0+

DESIGN PLANS
COMPUTATIONS
CORRESPONDENCE

ANALYST REMARKS--

DEL-36-0502 OVER SCIOTO RIVER
4 SPAN CONTINUOUS STEEL DECK PLATE GIRDER 7.5" CONCRETE DECK
2.5" SUPERPLASTICIZED DENSE CONCRETE SPEC= SCHOOL BUS
25 DEG SKEW LOADING CF=130
STANDARD DRAWING RB-1-47 REVISED 7-27-49

POSTING RATING SUMMARY

TRUCK TYPE
MEMBER I.D.
SPAN
CRITICAL C.P. DIST.

VEH. 4S1
G 1
2
53.0 FEET

TRUCK TYPE
MEMBER I.D.
SPAN
CRITICAL C.P. DIST.

VEH. 5C3
G 1
2
53.0 FEET

TRUCK TYPE
MEMBER I.D.
SPAN
CRITICAL C.P. DIST.

VEH. 6T1
G 1
3
53.0 FEET

MEMBER CAPACITY
DL EFFECT
MOMENT
(FOOT-KIPS)

1604.5
527.6

MEMBER CAPACITY
DL EFFECT
MOMENT
(FOOT-KIPS)

1604.5
527.6

MEMBER CAPACITY
DL EFFECT
MOMENT
(FOOT-KIPS)

1604.5
527.6

CAPACITY FOR (LL+I)
ACTUAL (LL+I)

1076.9
788.8

CAPACITY FOR (LL+I)
ACTUAL (LL+I)

1076.9
798.2

CAPACITY FOR (LL+I)
ACTUAL (LL+I)

1076.9
957.2

POSTING GROSS TONNAGE

39.6

POSTING GROSS TONNAGE

54.0

POSTING GROSS TONNAGE

45.0

SUMMARY OF RATING CALCULATIONS-----STRUCTURE
SPECIAL LOAD ANALYSIS

D/P STR. ID-- 210-084

INPUT CODING--

DATE 12/28/84
BY TAF DISTRICT 6

INVENTORY
LIVE LOAD RATING
HS25 HS13.8
OPERATING
LIVE LOAD RATING
3FT1 40.69 TONS
SPECIAL LOAD
TRUCK TYPE GROSS TONS
VEH. SPEC 38.4

STRUCTURE DESCRIPTION--

IDENTIFICATION
TYPE
YEAR OF CONSTR.
LENGTH
ROADWAY WIDTH
NUMBER OF SPANS

LOCATION--
DISTRICT
COUNTY
CONSTR. RTE.
CONSTR. SEC.
CONSTR. STA.
KEY RTE.
MARKED RTE.

MICROFILM REEL NUMBERS--
DESIGN PLANS
COMPUTATIONS
CORRESPONDENCE

ANALYST REMARKS--

DEL-36-0502 OVER SCIOTO RIVER
4 SPAN CONTINUOUS STEEL DECK PLATE GIRDER 7.5" CONCRETE DECK
2.5" SUPERPLASTICIZED DENSE CONCRETE SPEC= SCHDOL BUS
25 DEG SKEW LOADING CF=130
STANDARD DRAWING RB-1-47 REVISED 7-27-49

SPECIAL LOAD SUMMARY

TRUCK TYPE
MEMBER I.D.
SPAN
CRITICAL C.P. DIST.
VEH. SPEC
G 1
2
53.0 FEET

MEMBER CAPACITY
DL EFFECT
MOMENT
(FOOT-KIPS)
1604.5
527.6

CAPACITY FOR (LL+I)
ACTUAL (LL+I)
1076.9
364.3

POSTING GROSS TONNAGE 38.4

DATE 28/12/84

NO. SPANS = 4
NOT SYMMETRICAL

DETAIL DATA FOR FLEXURAL MEMBER

D/P STRUCTURE I.D. 210-084

MEMBER I.D.--G01

MATERIAL--SS

LL DIST. FACT. = 1.758

SUPERIMPOSED CONCENTRATED DL(S)

DIST. FROM LT SUPPORT*****

SUPERIMPOSED DISTRIBUTED DL(S)

LENGTH DISTRIBUTED*****

SPAN NO. P KIPS FT.

SPAN NO. DIST. FROM LT SUPPORT*****
1 1496.0 1496.0 0.000 74.000
2 1496.0 1496.0 74.000 106.000
3 1496.0 1496.0 180.000 106.000
4 1496.0 1496.0 286.000 74.000

SPAN NO.	LENGTH FT.	RNG. NO.	LENGTH FT.	SEC. NO.	T	VAR	DL DUE TO	MEM. WEIGHT
							W(LT)	W(RT)
1	74.000	1	21.000	01	01	P B	221.0	221.0
		2	45.000	01	02	P B	221.0	263.5
		3	5.000	03	04	P B	309.4	316.7
		4	3.000	04	04	P B	316.7	316.7
2	106.000	1	3.000	04	04	P B	316.7	316.7
		2	5.000	04	03	P B	316.7	309.4
		3	45.000	02	01	P B	263.5	221.0
		4	45.000	01	02	P B	221.0	263.5
		5	5.000	05	06	P B	324.8	332.0
		6	3.000	06	06	P B	332.0	332.0
3	106.000	1	3.000	06	06	P B	332.0	332.0
		2	5.000	06	05	P B	332.0	324.8
		3	45.000	02	01	P B	263.5	221.0
		4	45.000	01	02	P B	221.0	263.5
		5	5.000	03	04	P B	309.4	316.7
		6	3.000	04	04	P B	316.7	316.7
4	74.000	1	3.000	04	04	P B	316.7	316.7
		2	5.000	04	03	P B	316.7	309.4
		3	45.000	02	01	P B	263.5	221.0
		4	21.000	01	01	P B	221.0	221.0

CHECK POINTS RATED--

SPAN DIS FROM LT SPRT M VL VR NO. LT SPRT M VL VR

FT. FT.

1 0.000 X X
1 29.600 X X
2 53.000 X X
3 0.000 X X
3 53.000 X X
4 0.000 X X
4 44.400 X X
4 74.000 X X

DETAIL DATA AT MOMENT CHECK POINT FOR
STRICTLY PLAIN STEEL EXTERNAL MEMBER

1.4

1111

ALLOWABL

PS

OPERATING 25000.

1933.0	16/3.7	16/0.3	1928
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*****
AVAIL. CAPAC, FOR LL+IMPACT
TOP      TOP      BOT
```

	F-KPS	F-KPS	F-KPS
ENTORY	982.5	1614.3	793.3

1	1523.7	2083.0	1261.0	2
2	1523.7	2083.0	1261.0	2

9	1220.7	2083.0	1261.0	2
8	1523.7	2083.0	1261.0	2
7	1523.7	2083.0	1261.0	2
6	1523.7	2083.0	1261.0	2
5	1523.7	2083.0	1261.0	2
4	1523.7	2083.0	1261.0	2
3	1523.7	2083.0	1261.0	2
2	1523.7	2083.0	1261.0	2
1	1523.7	2083.0	1261.0	2

DATE: 10/10/68

FACT,	CAPACITY	VALUE
	TONS	

0.777	HS 19.4
-------	---------

2.185 52.4

1.749 50.7

1.848	73.9
-------	------

1.492	59.7
-------	------

3.747 48.7

DATE 12/28/84

DETAIL DATA AT MOMENT CHECK POINT FOR
STRUCTURAL STEEL FLEXURAL MEMBER

D/P STRUCTURE I.D. 210-084
MEMBER I.D.--GO1
C.P. LOCATION 2.0

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 2

GROSS AREA		NET AREA		SECTION MODULUS	
H IN.	AREA	+ BEND SQ.IN.	- BEND SQ.IN.	TOP	BOTTOM
77.25	93.06	87.06	87.06	2277.3	2608.0

***** INFLUENCE LINE (SIMPLE SPAN)

POS AREA =

***** ALLOWABLE STRESS

***** MOMENT CAPACITY

X-DIST (FT.)
Y-ORDINATE

***** ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)

ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)																				
	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6	INVENTORY	OPERATING	POST VEH1	POST VEH2	POST VEH3	POST SPEC	TOTAL DL				AVAIL. CAPAC. FOR LL+IMPACT			
							18000.	25000.	25000.	25000.	25000.	25000.	3911.2	3415.9	3416.9	3912.0	5432.2	4744.4	4745.6	5433.4
T 0	0.000	0.000	0.000	0.000	0.000	0.000											5432.2	4744.4	4745.6	5433.4
E 1	3.283	4.657	1.933	0.506	0.000	0.000											5432.2	4744.4	4745.6	5433.4
N 2	6.290	8.208	3.439	0.939	0.000	0.000											5432.2	4744.4	4745.6	5433.4
T 3	8.744	10.612	4.417	1.270	0.000	0.000											5432.2	4744.4	4745.6	5433.4
H 4	10.378	11.831	4.798	1.477	0.000	0.000														
H 5	10.995	11.680	4.546	1.542	0.000	0.000														
P 6	10.535	9.961	3.756	1.455	0.000	0.000														
O 7	9.059	7.446	2.775	1.226	0.000	0.000														
I 8	6.697	4.759	1.770	0.882	0.000	0.000														
N 9	3.607	2.232	0.828	0.460	0.000	0.000														
T 0	0.000	0.000	0.000	0.000	0.000	0.000														
							AREA				TOTALS									
POS AREA	0.0	0.0	299.6	0.0	0.0	0.0											299.6			
NEG AREA	515.0	756.7	0.0	72.2	0.0	0.0											1343.9			

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = .216 FOR +BEND AND = .233 FOR -BEND)

LIVE LOAD		TRUCK LOAD		WHEEL		LANE LOAD		RATING		SAFE LOAD		RATING		
		LL+IMP	LL	LOC.NO.	DIR	AXLE SPACE	LL+IMP	LL	LOC.CONC	LOC.CONC	LOAD 2	FACT.	CAPACITY	VALUE
		FT-KIPS	FT-KIPS	FT.		FT.	FT-KIPS	FT-KIPS	FT.				TONS	
INV	HS25	+BEND	435.0	357.6	205.000	L	373.9	307.4	222.400			0.926		HS 23.1
		-BEND	1101.6	893.8	102.400	L	1731.3	1404.6	116.400					
OPER	3FT1	+BEND	233.3	191.8	211.800	L						4.946	118.7	
		-BEND	592.6	480.8	106.000	L								
POST	VEH1	+BEND	284.3	233.7	207.410	L						4.066	117.9	
		-BEND	720.9	584.9	104.000	L								
POST	VEH2	+BEND	348.0	286.1	249.000	R						3.323	132.9	
		-BEND	882.1	715.7	93.799	L								
POST	VEH3	+BEND	368.7	303.1	202.002	L						3.145	125.8	
		-BEND	932.0	756.2	140.000	R								
POST	SPEC	+BEND	126.8	104.2	243.400	R						9.097	118.3	
		-BEND	322.2	261.4	105.999	L								

DATE 12/28/84

DETAIL DATA AT MOMENT CHECK POINT FOR
STRUCTURAL STEEL FLEXURAL MEMBER

D/P STRUCTURE I.D. 210-084
MEMBER I.D.--G01
C.P. LOCATION 2.5

***** SECTION PROPERTIES IN RANGE 4 OF SPAN 2

GROSS		+ BEND		- BEND		C (BOT)		+ BEND		- BEND		TOP		+ BEND		- BEND		TOP		+ BEND		- BEND		TOP		+ BEND		- BEND	
H	AREA	IN.	SO.IN.	IN.	SO.IN.	IN.	IN.	IN**4	IN**4	IN.	IN.	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3	IN**3
77.25	64.94	60.44	60.44	60.44	60.44	15483.7	15483.7	20.10	890.1	770.2	770.2	890.1	890.1	770.2	770.2	890.1	890.1	770.2	770.2	890.1	890.1	770.2	770.2	890.1	890.1	770.2	770.2	890.1	890.1

***** INFLUENCE LINE (SIMPLE SPAN)

X-DIST (FT.)
Y-ORDINATE

POS AREA =

***** ALLOWABLE
STRESS

***** MOMENT CAPACITY

***** ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)

SPAN 1		SPAN 2		SPAN 3		SPAN 4		SPAN 5		SPAN 6		TOTAL DL		TOTAL DL		AVAIL. CAPAC. FOR LL+IMPACT	
T	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	INVENTORY	OPERATING	INVENTORY	OPERATING	INVENTORY	OPERATING
E 1	-	1.058	1.921	-	1.485	0.389	0.000	0.000	0.000	0.000	0.000	807.5	1682.9	807.5	1682.9	807.5	1682.9
N 2	-	2.026	4.251	-	2.642	0.722	0.000	0.000	0.000	0.000	0.000	1326.7	2132.1	1326.7	2132.1	1326.7	2132.1
T 3	-	2.817	7.075	-	3.394	0.976	0.000	0.000	0.000	0.000	0.000	1326.7	2132.1	1326.7	2132.1	1326.7	2132.1
H 4	-	3.343	10.520	-	3.687	1.135	0.000	0.000	0.000	0.000	0.000	1326.7	2132.1	1326.7	2132.1	1326.7	2132.1
5	-	3.542	14.895	-	3.493	1.185	0.000	0.000	0.000	0.000	0.000	1326.7	2132.1	1326.7	2132.1	1326.7	2132.1
P 6	-	3.394	10.134	-	2.886	1.118	0.000	0.000	0.000	0.000	0.000	1326.7	2132.1	1326.7	2132.1	1326.7	2132.1
O 7	-	2.918	6.575	-	2.132	0.942	0.000	0.000	0.000	0.000	0.000	1326.7	2132.1	1326.7	2132.1	1326.7	2132.1
I 8	-	2.158	3.859	-	1.360	0.678	0.000	0.000	0.000	0.000	0.000	1326.7	2132.1	1326.7	2132.1	1326.7	2132.1
N 9	-	1.162	1.733	-	0.637	0.354	0.000	0.000	0.000	0.000	0.000	1326.7	2132.1	1326.7	2132.1	1326.7	2132.1
T 0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1326.7	2132.1	1326.7	2132.1	1326.7	2132.1
POS AREA	0.0	646.2	0.0	0.0	55.5	0.0	0.0	0.0	0.0	0.0	0.0	701.7	396.1	701.7	396.1	701.7	396.1
NEG AREA	165.9	0.0	230.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	701.7	396.1	701.7	396.1	701.7	396.1

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = .216 FOR +BEND AND = .216 FOR -BEND)

LIVE		TRUCK		1 WHEEL		SPACE		FT-KIPS		LOC. CONC		LOC. CONC		RATING		SAFE LOAD		RATING	
LOAD	LL+IMP	LL	LOC. NO.	DIR	AXLE	LL+IMP	LL	LOC. CONC	LOC. CONC	LOC. CONC	LOC. CONC	LOC. CONC	LOC. CONC	FACT.	TONS	CAPACITY	VALUE	FACT.	TONS
INV HS25	+BEND	1135.9	933.8	141.000	R	969.3	796.9	127.000	0.000	0.553	HS 13.8	1.695	40.7	1.349	54.0	2.956	38.4	1.125	45.0
OPER 3FT1	+BEND	635.2	522.1	109.998	L	430.4	353.8	222.400	0.000	0.553	HS 13.8	1.695	40.7	1.349	54.0	2.956	38.4	1.125	45.0
POST VEHI1	+BEND	788.8	648.4	108.001	L	430.4	353.8	222.400	0.000	0.553	HS 13.8	1.695	40.7	1.349	54.0	2.956	38.4	1.125	45.0
POST VEHI2	+BEND	798.2	656.2	143.000	R	430.4	353.8	222.400	0.000	0.553	HS 13.8	1.695	40.7	1.349	54.0	2.956	38.4	1.125	45.0
POST VEHI3	+BEND	957.2	786.9	144.009	R	430.4	353.8	222.400	0.000	0.553	HS 13.8	1.695	40.7	1.349	54.0	2.956	38.4	1.125	45.0
POST SPEC	+BEND	364.3	299.5	106.000	L	430.4	353.8	222.400	0.000	0.553	HS 13.8	1.695	40.7	1.349	54.0	2.956	38.4	1.125	45.0

DETAIL DATA AT MOMENT CHECK POINT FOR
STRUCTURAL STEEL FLEXURAL MEMBER

W. O.

0440

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-----SECTION-----
MODULUS -----

```

	GROSS	+	-	IX	IX	C	TOP	TOP	BOTTOM	BOTTOM
H	AREA	BEND	BEND	+ BEND	- BEND	(BOT)	+ BEND	- BEND	+ BEND	- BEND
IN.	SQ. IN.	SQ. IN.	SQ. IN.	IN**4	IN**4	IN.	IN**3	IN**3	IN**3	IN**3
77.50	97.56	91.06	91.06	99831.2	99836.6	41.46	2769.9	2408.2	2408.0	2770.0

224

PSI 180000

[illegible]

FOR - BEN

	-----TRUCK LOAD-----				-----LANE LOAD-----				RATING		SAFE LOAD		RATING	
	LL+IMP	LL	LOC.NO.	DIR	LL+IMP	LL	LOC.CONC	LOC.CONC	FACT.	CAPACITY	TONS	VALUE	VALUE	
LIVE LOAD			1 WHEEL				LOAD	LOAD 2						
FT-KIPS	FT.			SPACE	FT.			FT.						
	FT-KIPS	FT-KIPS			FT-KIPS	FT-KIPS								

INV	HS25	+BEND	356.2	284.7	302.399	L	421.9	337.1	323.000		HS 21.1
-BEND			1103.3	907.0	205.000	L	1897.0	1559.5	222.400	137.600	0.844

OPER 3FT1 +BEND	191.2	152.8	308.204	L	
-BEND	604.8	486.5	311.800		
					5.081
					121.9

POST VEH1 +BEND	235.2	188.0	338.000	R	4-169	120.9
-----------------	-------	-------	---------	---	-------	-------

POST VEH2 +BEND	264.3	211.2	349.791	R	2 406	425 2
-----------------	-------	-------	---------	---	-------	-------

POST VEH3 +BEND	291.6	233.0	302.000	L
-----------------	-------	-------	---------	---

POST CDCEC +BEND 103 6 83 8 336.601 R

POST	SPEC	+BEND	-BEND		
		103.6	82.8	336.601	K
		321.7	264.4	243.400	R
				9.347	121.5

DETAIL DATA AT MOMENT CHECK POINT FOR
STRUCTURAL STEEL FLEXURAL MEMBER

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-----SECTION-----

110.2
830.1

STRESS

+ BEND - BEN

INVENTORY 18

POST VEH1	250000
-----------	--------

1854.3	1604.5	1604.5	1854.4
--------	--------	--------	--------

TOP	TOP	BOT
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Case	Age	Sex	Site	Pathology	Survival
1	45	M	Rectum	F-KPS	18 months
2	52	F	Rectum	F-KPS	24 months
3	58	M	Rectum	F-KPS	36 months
4	65	F	Rectum	F-KPS	48 months
5	72	M	Rectum	F-KPS	60 months
6	78	F	Rectum	F-KPS	72 months
7	85	M	Rectum	F-KPS	84 months
8	92	F	Rectum	F-KPS	96 months
9	98	M	Rectum	F-KPS	108 months
10	105	F	Rectum	F-KPS	120 months

TOTALS	1326.7	2132.1	1076.9	2382.0
VERT. 2	1326.7	2132.1	1076.9	2382.0
VEH. 3	1326.7	2132.1	1076.9	2382.0
SPECIAL	1326.7	2132.1	1076.9	2382.0
396.1				

LOAD-----**

IONS

40-1
1593

39.6

1.349 54.0

1.125 45.0

38.4

DETAIL DATA AT MOMENT CHECK POINT FOR
STRUCTURAL STEEL FLEXURAL MEMBER

4.0

[illegible]

	GROSS	+	-	IX	IX	C	TOP	TOP	BOTTOM	BOTTOM
H	AREA	BEND	BEND	+ BEND	- BEND	(BOT)	+ BEND	- BEND	+ BEND	- BEND
IN.	SQ.IN.	SQ.IN.	SQ.IN.	IN**4	IN**4	IN.	IN**3	IN**3	IN**3	IN**3
77.25	93.06	87.06	87.06	93919.6	93915.5	41.23	2607.5	2277.3	2277.9	2608.0

ALLOWABLE *****

PS

OPERATING 25000

[illegible]

299.6
1343.8

10)

LL+IMP LL

FT-KIPS FT-KIPS

INV	HS25	+BEND	434.9	357.5	154.997	R	373.9	307.4	137.600		323.000	0.926	HS 23.1
-BEND			1101.5	893.7	257.600	R	1731.2	1404.6	243.600				

OPER 3FT1	+BEND	233.3	191.8	148.200	R	
	-BEND	592.6	480.8	254.000	R	
						4.946
						118.7

POST VEH1 +BEND	284.2	233.7	152.599	R	4 066	117.9
-----------------	-------	-------	---------	---	-------	-------

POST VEH2 +BEND	348.0	286.1	111.004	L	0	000	400	0
-----------------	-------	-------	---------	---	---	-----	-----	---

POST VEH3 +BEND	368.7	303.1	158.001	R
-----------------	-------	-------	---------	---

POST SPEC +BEND	126 8	104 2	116.600	1
-----------------	-------	-------	---------	---

DETAIL DATA AT MOMENT CHECK POINT FOR
STRUCTURAL STEEL FLEXURAL MEMBER

45

925.1

BO

POS AREA =

MOMENT CAPACITY
TOP TOP

OPERATING 25000-

POST VEH1 250000.

POST VEH3	25000.
POST SPEC	25000.

1933.0	1673.6	1670.3	1928.5
1933.0	1673.6	1670.3	1928.5

TOP TOP BOT

	F-KPS	F-KPS	F-KPS	F-KPS
INVENTORY	982.5	1614.3	793.3	1797.8

VEH.	1523.7	2082.9	1261.0	2337.8
VEH. 1	1523.7	2082.9	1261.0	2337.8
VEH. 2	1523.7	2082.9	1261.0	2337.8

VEH. 3	1523.7	2082.9	1201.0	2337.8
SPECIAL	1523.7	2082.9	1261.0	2337.8

TONS

3.75 30.7

1.848 13.9

1.492 59.7

3.747 48.7

DATE 12/28/84

SUMMARY OF SHEAR ANALYSIS

D/P STRUCTURE I.D. 210-084

MEMB. ID	SPAN NO.	DIS LT	FRM SPRT	L R	DL SHEAR KIPS	SDL SHEAR KIPS	---INVENTORY---		---OPERATING---		--VEH. 1--		--VEH. 2--		--VEH. 3--		--SPECIAL--	
							LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V
G01	SS	1	0.000	L	5.0	34.2	81.5	15.7	45.2	8.1	54.9	9.9	56.2	12.1	61.4	12.8	26.0	4.4
		2	0.000	L	13.3	77.7	89.3	91.8	48.4	49.7	58.6	60.3	70.8	71.4	70.8	71.7	26.8	27.5
		3	0.000	L	13.8	80.8	89.4	89.4	48.4	48.4	58.6	58.6	70.8	70.8	70.9	70.9	26.8	26.8
		4	0.000	L	12.8	76.5	91.8	89.3	49.7	48.4	60.3	58.6	71.4	70.8	71.7	70.8	27.5	26.8
		4	74.000	L	5.0	34.2	15.7	81.5	8.1	45.2	9.9	54.9	12.1	56.2	12.8	61.4	4.4	26.0