

STRUCTURE NO.

SHEET NO. 18 OF 2

INTERIOR GIRDER REACTION TABLE								
		Abuts.	Piers					
RDCI	(k)	15.7	90.9					
R _{DC2}	(k)	2.2	12.9					
Row	(k)	5.6	32.1					
R4 + IM	(k)	84.2	129.1					
R Total	(k)	107.7	265.0					

334"

SECTION B-B

).4 Sp. 1 or

06 50

8230

20503

15160

541

752

685

1.058

94.0

0.150

13.3

0.374

33.2

652

1325

3782

2.1

0.2

0.6

10.4

16.4

47.5

- -

30.1

Pier 1 or

Pier 2

8230

- -

10831

541

- -

- -

606.5

1.058

-675

0.150

-95.8

0.374

-239

- 869

-2843

- 3145

- 15.0

-1.9

-4.7

-17.2

- 44 0

- 47.5

- -

29.1

0.5 Span

8230

20503

15160

541

752

685

1.058

506 0.150 71.7

0.374

179

863

2500

3708

11.2

1.3

3.1

13.8

33.5

47.5

- -

24.5

	Is, Ss:	Non-composite moment of inertia and section modulus of the steel section used for computing $f_{\rm S}({\rm Total}\text{-}{\rm Strength}$ I, and
	L(a) = C(a)	Service II) due to non-composite dead loads (in. ⁴ and in. ³).
	1 _c (n), S _c (n):	Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing
		f_s (Total-Strength I, and Service II) in uncracked sections, due to
		short-term composite live loads (in. ⁴ and in. ³).
	Ic(3n), Sc(3n):	Composite moment of inertia and section modulus of the steel and
		deck based upon 3 times the modular ratio, "3n", used for computing
		f_s (Total-Strength I, and Service II) in uncracked sections, due to
		long-term composite (superimposed) dead loads (in.4 and in.3).
	Ic(Cr), Sc(Cr):	Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I
		and Service II) in cracked sections, due to both short-term composite
		live loads and long-term composite dead loads (in.4 and in.3).
	DC1:	Un-factored non-composite dead load (kips/ft.).
		Un-factored moment due to non-composite dead load (kip-ft.).
	DC2:	Un-factored long-term composite (superimposed excluding future
		wearing surface) dead load (kips/ft.).
	MDC2:	Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
	DW.	Un-factored long-term composite (superimposed future wearing
	2	surface only) dead load (kips/ft.).
	Mow:	Un-factored moment due to long-term composite (superimposed
		future wearing surface only) dead load (kip-ft.).
	M4 + IM:	Un-factored live load moment plus dynamic load allowance (impact)
	M., (Strenath I).	((kip-ft.). Factored design moment (kip-ft.).
	my (on ongin 1).	1.25 (M _{DC1} + M _{DC2}) + 1.5 M _{DW} + 1.75 M ½ + IM
	$\phi_f M_n$:	Compact composite positive moment capacity computed according
		to Article 6.10.7.1 or non-slender negative moment capacity
	6 004	according to Article A6.1.1 or A6.1.2 (kip-ft.).
	ts DCI:	Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated
		below (ksi).
		MDCI / Snc
	fs DC2:	Un-factored stress at edge of flange for controlling steel
		flange due to vertical composite dead loads as calculated
		below (ksi). Nana (S. (Za) an Mana (S. (an) an analiashla
	fr DW.	$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable. Un-factored stress at edge of flange for controlling steel
	13 011.	flange due to vertical composite future wearing surface
		loads as calculated below (ksi).
		Mbw / Sc(3n) or Mbw / Sc(cr) as applicable.
	f _s (4+IM):	Un-factored stress at edge of flange for controlling steel
		flange due to vertical composite live plus impact loads as calculated below (ksi).
		M4 + IM / Sc(n) or M4 + IM / Sc(cr) as applicable.
	fs (Service II):	Sum of stresses as computed below (ksi).
		fsDCI + fsDC2 + fsDW + 1.3 fs(4 + IM)
	0.95RhFyf:	Composite stress capacity for Service II loading according
fe	(Total)(Strenath I)•	to Article 6.10.4.2 (ksi). Sum of stresses as computed below on non-compact
, 3		section (ksi).
_		1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs & + IM
	¢ _f F _n :	Non-Compact composite positive or negative stress capacity for
	17	Strength I loading according to Article 6.10.7.2 or 6.10.8 (ksi).
	- Vf:	Maximum factored shear range in span computed according to Article 6.10.10.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	14
Anchor Bolts, 1"	Each	28
Anchor Bolts, 14"	Each	28

BEARING DETAILS IRUCTURE NO. 057-0254		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		(57-20HB)BR-1	MCLEAN	440	253
1100101E 100.037-0234	CONTRACT NO. 70570				
SHEET NO. 18 OF 28 SHEETS	ILLINOIS FED. AID PROJECT				