

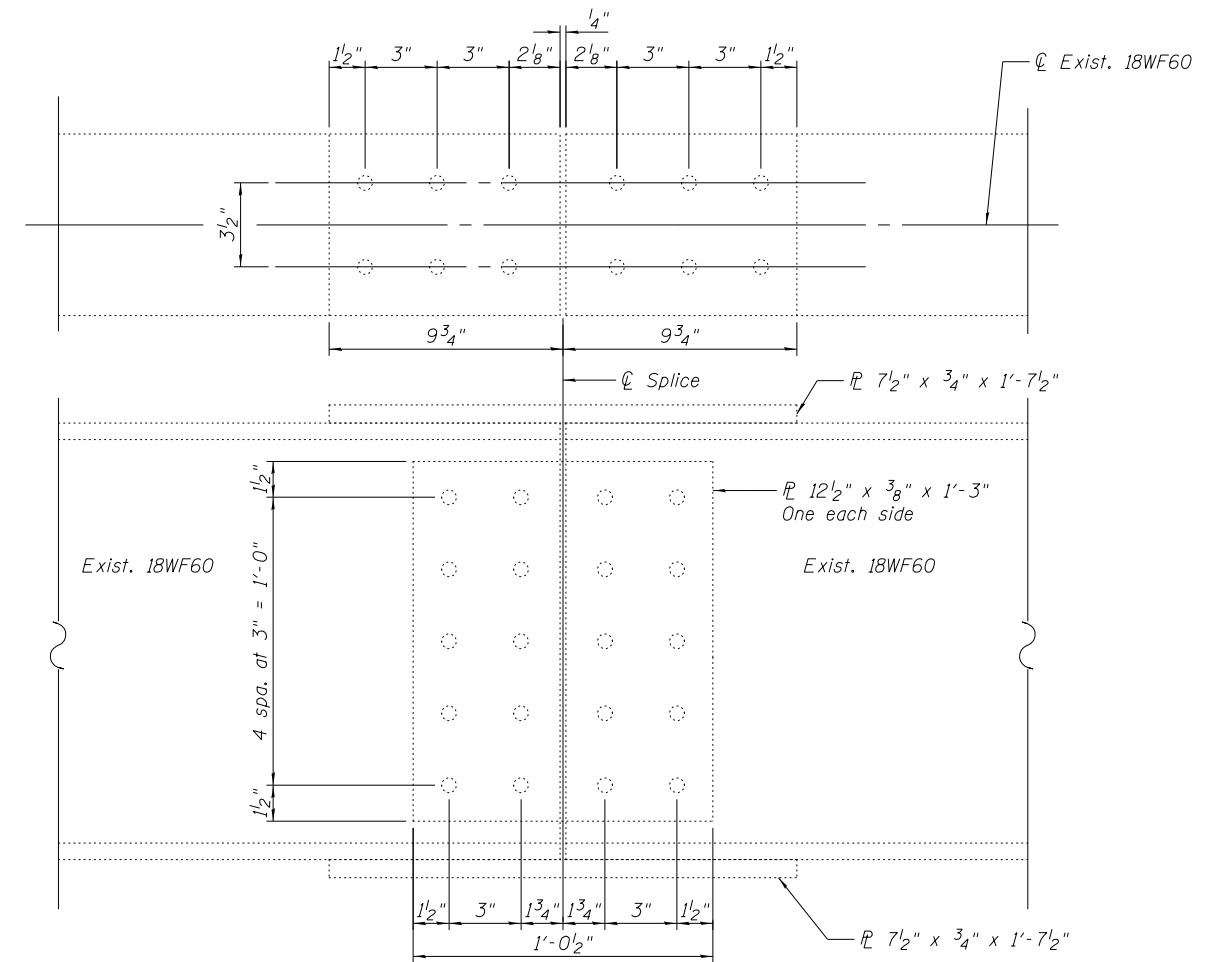
INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
I_s	(in ⁴)	984	984	984
$I_c(n)$	(in ⁴)	3638	-	3638
$I_c(3n)$	(in ⁴)	2636	-	2636
$I_c(cr)$	(in ⁴)	-	1139	-
S_s	(in ³)	108	108	108
$S_c(n)$	(in ³)	190	-	190
$S_c(3n)$	(in ³)	168	-	168
$S_c(cr)$	(in ³)	-	117	-
Z	(in ³)	-	-	-
ϕ	(k/')	0.532	0.532	0.532
$M\phi$	('k)	35.2	66.3	34.8
$s\phi$	(k/')	0.144	0.144	0.144
$M_s\phi$	('k)	9.5	18.0	9.4
M_L	('k)	111.8	90.8	112.7
$M_{I\phi}$	('k)	33.6	27.2	33.8
$\phi_3 [M_L + I]$	('k)	242.3	196.7	244.2
M_a	('k)	373.1	365.3	374.9
M_u	('k)	775.8	-	512.5
$f_s \phi$ non-comp	(ksi)	3.9	7.4	3.9
$f_s \phi$ (comp)	(ksi)	0.7	2.0	0.7
$f_s \phi_3 [M_L + M_I]$	(ksi)	15.3	21.8	15.4
f_s (Overload)	(ksi)	19.9	31.2	19.9
f_s (Total)	(ksi)	-	40.5	-
VR	(k)	11.7	36.0	11.4

** Compact section

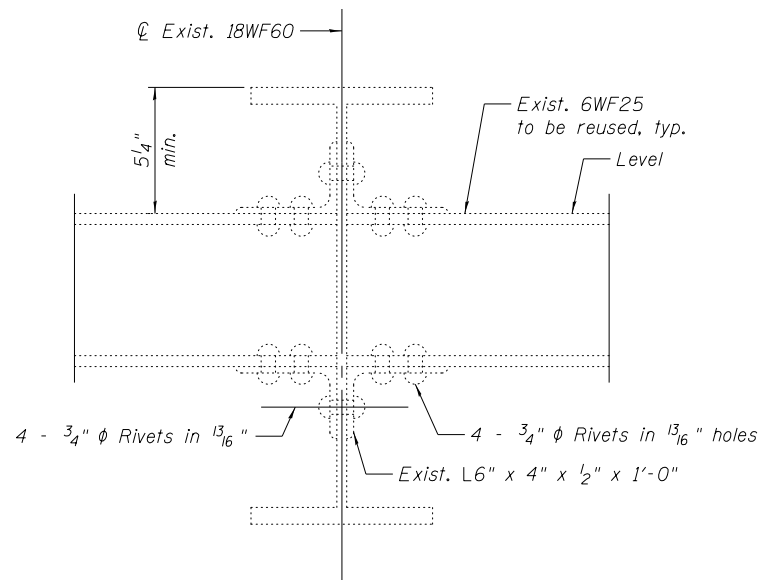
INTERIOR GIRDER REACTION TABLE			
		Abutments	Piers
$R\phi$	(k)	26.2 ***	26.4
R_L	(k)	29.6	30.0
R_I	(k)	8.9	9.0
R_{Total}	(k)	64.6	65.4

*** Dead load reaction includes concrete diaphragm and approach slab.

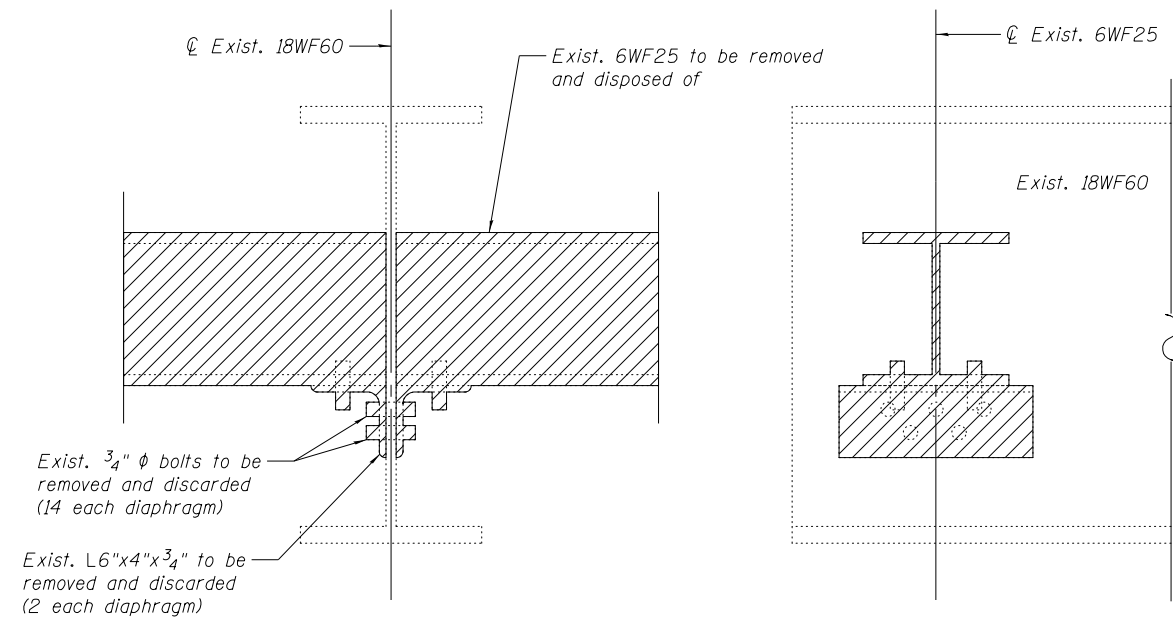
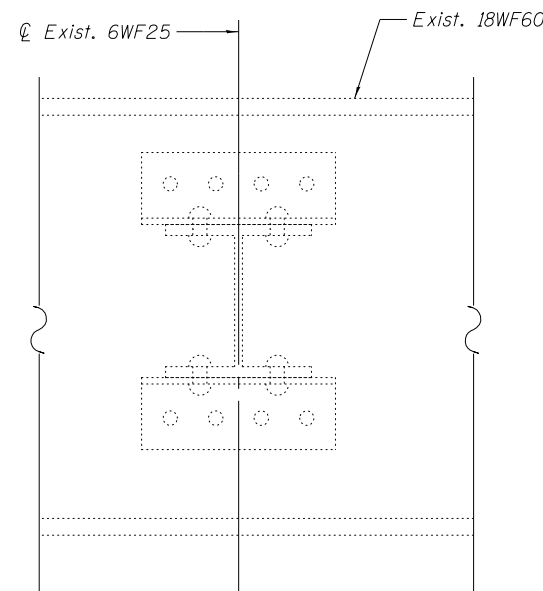
- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in⁴ and in³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in⁴ and in³).
- $I_c(3n), S_c(3n)$: 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 and Overload) due to long-term composite (superimposed) dead loads (in⁴ and in³).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement.
- Z : Plastic Section Modulus of the steel section in non-composite areas (in³).
- ϕ : Un-factored non-composite dead load (kips/ft.).
- $M\phi$: Un-factored moment due to non-composite dead load (kip-ft.).
- $s\phi$: Un-factored long-term composite (superimposed) dead load (kips/ft.).
- $M_s\phi$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- M_L : Un-factored live load moment (kip-ft.).
- M_I : Un-factored moment due to impact (kip-ft.).
- M_a : Factored design moment (kip-ft.).
 $1.3 [M\phi + M_s\phi + \frac{5}{3} (M_L + M_I)]$
- M_u : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
- f_s (Overload): Sum of stresses as computed from the moments below (ksi).
 $M\phi + M_s\phi + \frac{5}{3} (M_L + M_I)$
- f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $1.3 [M\phi + M_s\phi + \frac{5}{3} (M_L + M_I)]$
- VR: Maximum ϕ + impact shear range within the composite portion of the span for stud shear connector design (kips).



SPlice DETAIL
(For information only)



DIAPHRAGM "D2" DETAIL
(Total 30 Diaphragms to remain in place)



END DIAPHRAGM "D1" REMOVAL DETAIL
(Total 12 Diaphragms to be removed)

LEGEND

- Structural Steel Removal

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