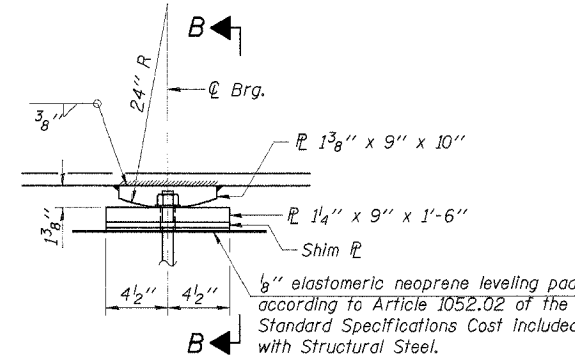


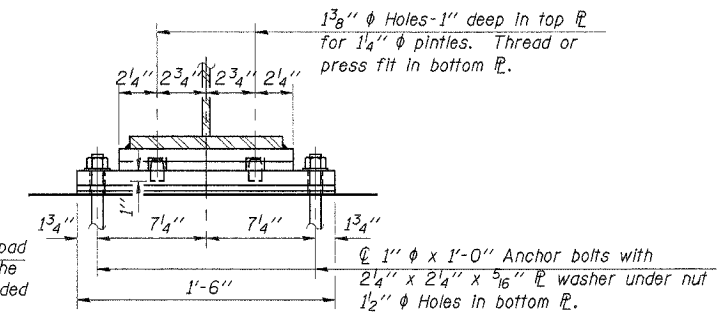
	0.4 Sp. 1 & 0.6 Sp. 3	Piers 1 & 2	0.5 Sp. 2
I_s	(in^4) 2,100	2,100	2,100
I_c	(in^4) 6,764	—	6,764
$I_c (3n)$	(in^4) 5,075	—	5,075
S_s	(in^3) 176	176	176
$S_c (n)$	(in^3) 282	—	282
$S_c (3n)$	(in^3) 255	—	255
ϕ	($k/ft.$) 0.709	1.062	0.709
$M\ell$	($'k$) 44.8	114.1	44.3
$s\ell$	($'k$) 0.353	—	0.353
$M_s\ell$	($'k$) 26.1	—	31.6
$M\ell$	($'k$) 147.0	88.0	161.9
$M (Imp)$	($'k$) 44.1	26.4	48.6
$f_s[M\ell + M(I)]$	($k.s.i.$) 8.1	7.8	9.0
$f_s\ell non-comp$	($k.s.i.$) 3.1	7.8	3.0
$f_s\ell comp$	($k.s.i.$) 1.2	—	1.5
$f_s (Total)$	($k.s.i.$) 12.4	15.6	13.5
VR	(k) 39.5	—	43.8

	Abuts.	Piers
$R\ell$	(k) 12.3	40.0
$R\ell$	(k) 28.0	35.5
$Imp.$	(k) 8.4	10.7
$R (Total)$	(k) 48.7	86.2

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s .
 $I_c(n)$ and $S_c(n)$ are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
 $I_c(3n)$ and $S_c(3n)$ are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads.
 VR is the maximum Live Load + Impact shear range in span.

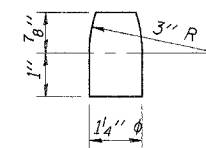


ELEVATION AT PIER

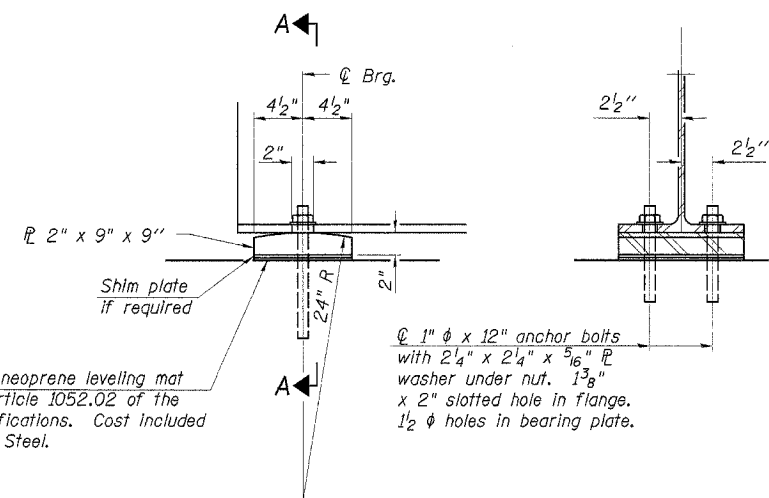


SECTION B-B

BEARING AT PIER
10 Required



PINTLE

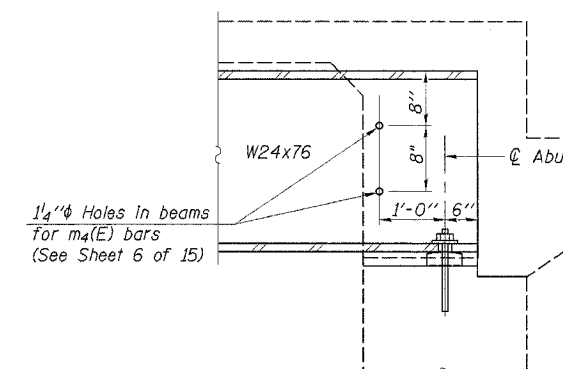


ELEVATION AT ABUTMENT

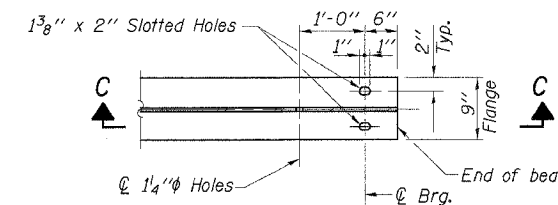
SECTION A-A

BEARING AT ABUTMENT
(10 Required)

Notes: Anchor bolts at abutments may be built into the masonry.
See sheet 10 of 15 for Anchor Bolt Installation.



SECTION C-C



END OF BEAM DETAILS

DESIGNED	S.F.M.
CHECKED	P.S.L. & F.J.S.
DRAWN	K.T.R., J.P.S. & S.A.P.
CHECKED	S.F.M.

STRUCTURAL STEEL
SECTION 03-00027-11-BR
COUNTY HIGHWAY 5
TAZEWELL COUNTY
STA. 61+32

4440 ASH GROVE
SPRINGFIELD, IL 62711
(217) 793-8600
oasinc@amvid.com

OZYURT AND STONE, INC.
CONSULTING ENGINEERS

JOB NO.: 0313
FILE: STEEL02.DGN
DATE: 12/30/04