4"
@ $\mathbb{C}$

$\mathbb{C}$ C15x40*

$\mathbb{C}$ Beam web and
$\mathbb{C}$ C15 at end
of channel (M270
Grade 50W)

4 sides

L 6" x 4" x ½"
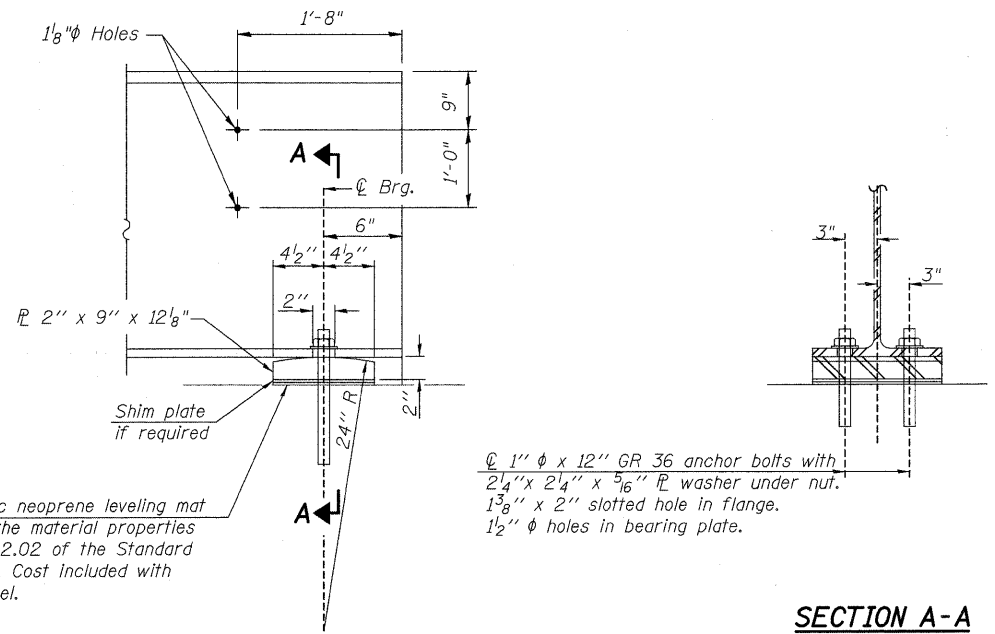(M270 Grade 50W)

SECTION A-A

INTERIOR DIAPHRAGM D AND D1

(12 Required D)
(3 Required D1)

Note:
    Two hardened washers required for each set of
oversized holes.

    Two 3x3x5/16" plate washers are required for each
slotted hole.

*   Alternate C15x50 channels are permitted to facilitate
material acquisition. Calculated weight of structural
steel is based on the lighter section. The alternate, if
utilized, shall be provided at no extra cost to the
Department.

** D-$\frac{3}{4}$" ϕ HS bolts, $\frac{15}{16}$" ϕ holes (Beam), $\frac{15}{16}$" ϕ holes
(Angles)
    D1-$\frac{3}{4}$" ϕ HS bolts, $\frac{15}{16}$" ϕ holes (Beam), $\frac{13}{16}$"x$1\frac{7}{8}$" slotted
holes (Angles/Each End) Bolts at slots shall be finger
tight until the second stage pour is complete, then fully
tightened. Position and install angles on diaphragm to
allow both sides of diaphragm bolts to slip under deck
pour.

1$\frac{1}{8}$"ϕ Holes

1'-8"

A

$\mathbb{C}$ Brg.

PL 2" x 9" x 12$\frac{1}{8}$"

Shim plate
if required

$\frac{1}{8}$" elastomeric neoprene leveling mat
according to the material properties
of Article 1052.02 of the Standard
Specifications. Cost included with
Structural Steel.

A

$\mathbb{C}$ 1" ϕ x 12" GR 36 anchor bolts with
2$\frac{1}{4}$"x 2$\frac{1}{4}$" x $\frac{5}{16}$" PL washer under nut.
1$\frac{3}{8}$" x 2" slotted hole in flange.
1$\frac{1}{2}$" ϕ holes in bearing plate.

SECTION A-A

ELEVATION AT ABUTMENT

FIXED BEARING

Notes:
    Anchor bolts shall be ASTM F1554 all-thread (or an
Engineer-approved alternate material) of the grade(s)
and diameter(s) specified. ASTM A307 Grade C
anchor bolts may be used in lieu of ASTM F1554
Grade 36 (Fy=36ksi). The corresponding specified
grade of AASHTO M314 anchor bolts may be used
in lieu of ASTM F1554.
    Anchor bolts at fixed bearings may be either cast in
place or installed in holes drilled after the supported
member is in place.
    Drilled and set anchor bolts shall be installed according
to Article 521.06 of the Standard Specifications.
    One $\frac{1}{8}$ in. shim shall be provided for each bearing at beam
line 5.
    One $\frac{1}{4}$ in. shim shall be provided for each
bearing at beam line 4.

STRUCTURAL STEEL DETAILS
IL 15 OVER UNION
DRAINAGE DITCH
WAYNE COUNTY
STATION 301+65.00
STRUCTURE NO. 096-0071