

SHEET NO. 30 TOTAL SHEET NO. 93 MADISON 52 47 SHEETS A. P. 318 * 60-15HB-3 Contract No. 76706 -- ¢ Girder (include in bearing assembly) -H.S. threaded studs

LBase cylinder

LTFE shear reducer

discs (unbonded)

Piston-

14 Gage Stainless

steel facing

-Rottom

bearing P

(2) As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the quide bars and top bearing plate may be fabricated as a single piece.

See Table for min. required bolt \$\phi\$.

① Dimensions Tt and Th are given at © bearing. Thickness will vary

—Top Bearing ₽

— © Bearing (S. Abut.)

Top Bearing Plate

SECTION E-E

because girders are sloped.

l₈" elastomeric neoprene leveling pad according to Article 1052.02 (a) of the Standard Specifications. Cost included with "HLMR Bearing, Fixed".-

-Line of Thermal

-Positive Angle of

Thermal Movement

Movement

∟Tangent to @ Girder

at & Bearing

Guide bars paralle.

to line of thermal

movement

H.S. threaded stud (Typ.)

Tapped hole for

∕−② Guide bar -Weld may be omitted if base cylinder is recessed into bottom bearing P _Top of Concrete

(included in bearing assembly)

-TFE sliding surface

(bonded to piston)

-Top bearing P

£ 1" \$\phi\$ x 1'-2" Anchor bolts (F1554, Grade 55) (S. & N. Abutments) with $2\frac{1}{4}$ " x $2\frac{1}{4}$ " x $\frac{5}{16}$ " Pwasher under nut. $1_2'' \phi$ Holes in bottom bearing \Re

 $\not\in I_2'' \not = x \ 1'-9''$ Anchor Bolts (F1554, Grade 55) (Pier 2. with 3" x 3" x $^{5}_{16}$ " \cancel{E} washers under nut. 2" ϕ Holes in bottom bearing \cancel{E} .

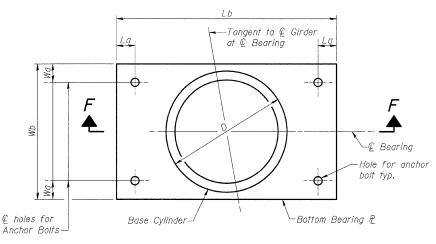
SECTION D-D

∟Neonrene

disc

−Base Cylinder rBottom Bearing P

SECTION F-F



BOTTOM BEARING P AND BASE CYLINDER PLAN FOR HLMR BEARING, GUIDED EXPANSION

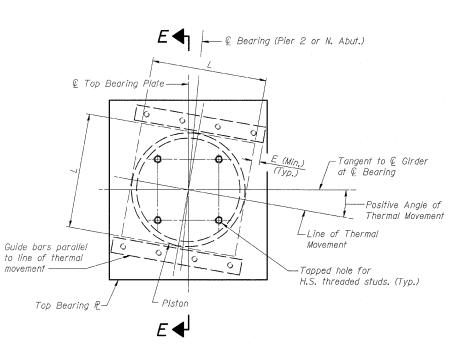
Notes:

Work this sheet with sheet #29 of 47.

See sheet #29 of 47 for Schedule, Notes, and Bill of Material

HLMR BEARING DETAILS RAMP B OVER FAP RTE 310 SECTION 60-15HB-3 MADISON COUNTY STATION 17+72.64 (RAMP B) SN 060-0332

ELEVATION HLMR BEARING. GUIDED EXPANSION



TOP BEARING P AND PISTON PLAN FOR HLMR BEARING, GUIDED EXPANSION

at Pier 2 and North Abutmen. Girder not shown for clarity.

ADLDESIGNED WLWCHECKED RLWDRAWN WLWCHECKED

Plan Dimensions of Top Plate and Guide bars not shown in schedule to be determined by Bearing Fabricator.



L Piston

Top Bearing P-

Girder not shown for clarity. Plan Dimensions of Top Plate and Guide bars not shown in schedule to be determined by Bearing Fabricator.

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Klingner & Assoc., P.C.