

BILL OF MATERIAL

Item	Unit	Total
High Load Multi-Rotational Bearings, Guided Expansion, 550 kips	Each	13
Anchor Bolts, 1'2"	Each	52

HIGH LOAD MULTI-ROTATIONAL BEARING SCHEDULE

	0	Service Vertical Lateral		Total Required	Rotation	_			Тор	Plate .	/ Bear	ing A	ssembly	Masonry Plate				
Location	Each	Design Load * (kips)	Design Load (kips)	Movement (in)	(radians) **	D (in)	(in)	Th (in)	Wt (in)	Lt (in)	Tt (in)	Rt (in)	St (in)	Wb (in)	Lb (in)	Tb (in)	Rb (in)	Sb (in)
Pier	13	492	67	1"	0.005	17.75"	18"	10 ⁷ 8 "	22"	24"	234"	7"	8"	20"	33'2"	24"	14'8"	738"

* No Impact

****** Maximum Factored Ultimate (Strength) Design Rotation

TYLININTERNATIONAL	USER NAME =	DESIGNED - PK	REVISED -	STATE OF HUNDIS	PIER BEARING DETAILS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	HEET NO.
	PLOT SCALE =	DRAWN - PK	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 099–0526	57	99-1HB-R	WILL CONTRACT	63 F NO. 60	42 T40
	PLOT DATE =	CHECKED - SP	REVISED -		SHEET NO. 20 OF 35 SHEETS	ILLINOIS FED. AID PROJECT				
P:\602612(I-57_@_Stuer	kel)\structural\Bras.dan									

Sb

258"

(tvp.

NOTES:

- 1. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
- 2. Cost of top and bottom bearing plates, ${}^{\prime}_{8}{}^{\prime\prime}$ elastomeric neoprene leveling pad, adjusting shims and threaded studs with washers shall be included with "High Load Multi-Rotational Bearings, Guided Expansion, 550 kips".
- 3. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternative material) of the grade and diameter specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- 4. Anchor bolts shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place.
- 5. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
- 6. Two l_8 " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- 7. The ${}^{\prime}_{8}{}^{\prime\prime}$ PTFE sheet shall be bonded directly to the piston with a twocomponent, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.