

TABLE OF ESTIMATED QUANTITIES 3

3 COLUMN BENT No. Size Length Weight 8 #11 36'-10" 1,566 4 #4 2'-6" 14 #4 6'-7" 63 54 #5 9'-8" 545 4 #5 36'-10" 154 24 #7 26'-3" 1,288 3 #3 242'-2" 273 3,896 Reinforcing Steel Lb CY8.8 "C" Conc (Cap) CY8.4

TABLE OF MAXIMUM ALLOWABLE EXPOSED PILE HEIGHTS AND

Steel

No.

5

4

14

38

4

Class "C" Concrete (Cap)

Reinforcing Steel

Pile Type

oncrete

TABLE OF ESTIMATED

QUANTITIES

5 PILE BENT

Length

36'-10"

2'-6"

6'-7"

9'-8"

Lb

Max Ht | Max Load

Tons/Pile

36'-10"

Weight

978

63

384

154

1,586

8.8

Size

#11

#4

#4

#5

#5

1/2" preformed bituminous fiber material between slab beam and earwall. Bond to earwall with an approved adhesive. Cast inside face of earwall perpendicular to cap. (Typ)

3 Quantities shown are based on an "H" value of 24 feet. For each linear foot variation in "H" value, make the following adjustments Bars V length, 1'-0"

Bars Z length, 9'-6" Reinforcing Steel, 60 Lb Class "C" Conc (column), 0.35 CY

HP14x73 16 75 HP14x117 (6) 20 90

PILE LOADS (4)

- (4) This standard may not be used for "H" heights exceeding 24 feet or exposed pile heights exceeding the values shown in the table. In areas of very soft soil or where scour is anticipated, allowable "H" heights or exposed pile heights must be evaluated by the Engineer prior to the use of this standard.
- (5) Foundation Loads based on "H" = 24 feet.
- (6) When HP14x117 steel piling is specified in the plans, the Contractor has the option of furnishing either HP14x117 or HP16x101 steel piling.

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications. Bent selected must be based on the average span length rounded up to the next 5-foot increment.

For pile bents supporting unequal spans, the shorter span cannot be less than 80 percent of the longer span.

See Bridge Layout for foundation type, size, and length. See Common Foundation Details (FD) standard sheet for all foundation details and notes.

These bent details do not support the use of multi-pile footings shown on the FD standard.

Details are drawn showning right forward skew. See Bridge Layout for actual skew direction.

These bent details may be used with standard SPSB-28-30 only.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar

MATERIAL NOTES:

Provide Class C concrete (f'c = 3,600 psi). Provide Class C (HPC) concrete if shown elsewhere

Provide Grade 60 reinforcing steel.

HL93 LOADING



INTERIOR BENTS PRESTR CONC SLAB BEAM 28' ROADWAY 30° SKEW

BPSB-28-30

FILE: PSB-BPSB2830-17.dgn	DN: Tx	D0T	CK: TXDOT	DW:	TxD0T	ck: TxD0T
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WER: of this standard is governed by the "Texas Engineering Practice Act". ssumes no responsibility for the conversion of this standard to other