



**12" x 12" Piles**  
 Max. length - 50' Single point pick-up  
 Max. length - 75' Double Point pick-up  
 Max. length - 115' Three point pick-up (Prestress only)

**14" x 14" Piles**  
 Max. length - 60' Single point pick-up  
 Max. length - 85' Double point pick-up  
 Max. length - 115' Three point pick-up (Precast only)

**FOR INFORMATION ONLY**

PILES					
STEEL PILES	EQUIVALENT CONCRETE PILES				
	Precast	Pipe	Fluted	Step taper	Pre-stressed
HP10x42	14"	10 3/4"	12"	12 1/4"	12 1/4"
HP12x53	16"	12 3/4"	14"	14 1/4"	14"
HP14x73	18"	14"	16"	16 1/4"	14"

‡ Helical Corrugated Pipe Shell

CONCRETE PILES					
PIPE PILE	EQUIVALENT CONCRETE PILES				
	Precast	Fluted	Step taper	Pre-stressed	‡
10 3/4"	14"	12"	12 1/4"	12"	12 1/4"
12 3/4"	16"	14"	14 1/4"	14"	12 1/4"
14"	18"	16"	16 1/4"		14"

- GENERAL NOTES**
- Specifications:** Standard Specifications for State Road and Bridge Construction as currently used by the State Highway Commission of Kansas. (Ed. 1973).
  - Concrete:** Concrete for cast-in-place shall be Class A concrete,  $f_c = 3,000$  p.s.i. See Sub-Article 703.07 (f)(2) Standard Specifications. Concrete for Precast and for Prestressed shall be Class AAA concrete  $f_c = 4,000$  p.s.i. See Article 703.07 (a) Standard Specifications.
  - Reinforcement:** Reinforcing bars shall be new billet steel, ASTM, Designation A-615 grade 40 without exception. Hoops and spirals may be either plain or deformed bars. See Sub-Section 1006.01 Standard Specifications.
  - Precast Piles:** Precast piles shall conform to the requirements of Article 703.07 (a)(1)(b)(c)(d) Standard Specifications.
  - Cast-in-Place Shells:** Steel shells for Cast-in-Place Concrete Piles shall conform to the requirements of Sub-Section 1006.06 Standard Specifications. All piles driven without mandrel shall be of the minimum gages or thicknesses shown above, except fluted pile use No. 9 gage minimum. Piles driven with mandrel shall be of sufficient strength and thickness to withstand driving without injury and to resist harmful distortion and/or buckling due to soil pressure after the mandrel is removed. Improperly driven, broken or otherwise defective shells shall be removed and replaced or otherwise corrected to the satisfaction of the Engineer, or the driving of an additional pile at no extra cost.

- Steel Pile:** Steel pile shall conform to requirements of Article 1006.04 (e) Standard Specifications.
- Pile Points:** Pile points shall conform to the dimensions shown and requirements of Sub-Article 1006.06 (b)(3) Standard Specification. Pile points shall be mill welded to pile.
- Welding:** All field welding shall meet the requirements of Sub-Section 703.06 Standard Specifications.
- Paint:** All paint shall comply with Sub-Section 1008.06 Standard Specifications, or as specified on the plans.
- Test Piles:** Test Piles shall be driven where called for on the Bridge plans. The test piles located within the limits of the substructure will become a part of the Bridge Pile System.
- Splices:** Splices for Steel Piles and Shell Piling shall be in accordance with details shown on this sheet and shall comply with Sub-Section 703.06 Standard Specifications. Precast Concrete Pile splices shall comply with Sub-Article 703.07 (g)(1) Standard Specifications.

- Driving Formula:** Driving Formula shall conform to Sub-Article 703.04 (d)(3) Standard Specifications.
- Mill Test Reports:** Steel Piles test reports shall comply with Sub-Article 1006.04 (e)(3) Standard Specifications. Steel Shells test reports for cast-in-place piles shall comply with Article 1006.06 (d) Standard Specifications.
- Measurement and Payment:** Measurement for all piles shall comply with Sub-Section 703.08 Standard Specifications. Payment for all piles shall comply with Sub-Section 703.09 Standard Specifications.

CITY OF WICHITA PROJECT NO. DAKB 576042

NO.	DATE	REVISIONS	BY	APP'D
6	9-4-73	Revised for 1973 Const. Spec.	GEK.	E.E.W.
5	8-26-66	Revise Entire Gen. Note	J.C.L.	E.E.W.
4	4-8-64	Add Longitudinal/Welded Pipe Pile	J.C.L.	T.W.O.
3	4-4-61	Revise Choice of Pile Note Above	J.C.L.	T.W.O.
2	3-27-61	Revise Pipe Pile General Note	J.C.L.	T.W.O.
1	1-24-61	Remove hole in Prestressed Concrete Pile	J.C.L.	T.W.O.

STATE HIGHWAY COMMISSION OF KANSAS

**STANDARD PILE DETAILS**

STD. NO. 102

SHEET NO.	OF	SCALE	APP'D	QUANTITIES	TRACED
DESIGNED		DETAILED		QUAN. CK.	TRACE CK.