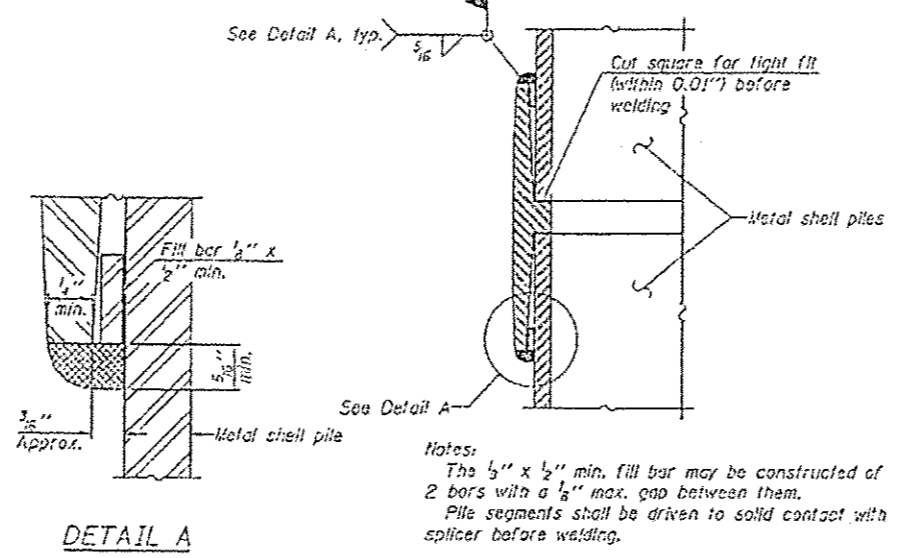




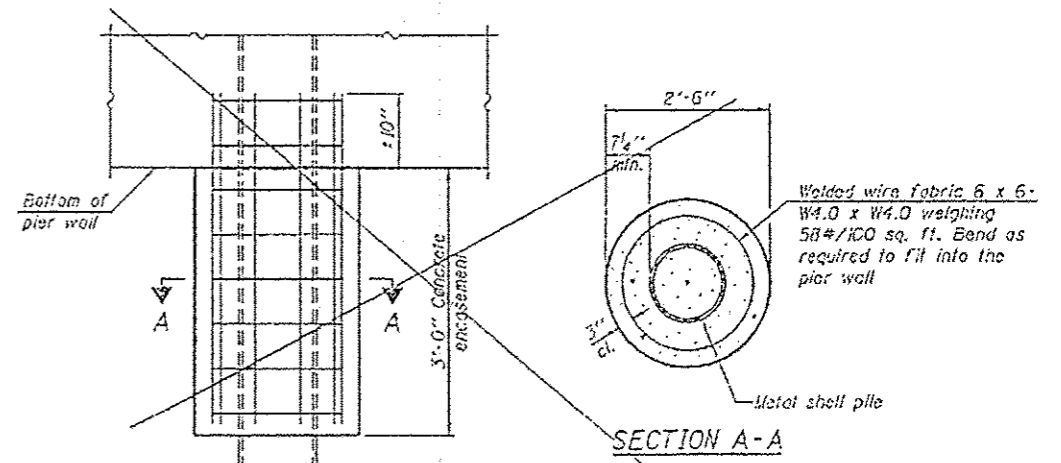
METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.178"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP11	0.250"	36.71	0.0358
PP14	0.312"	45.61	0.0361



WELDED COMMERCIAL SPLICE

Notes:
 The 1/2" x 1/8" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

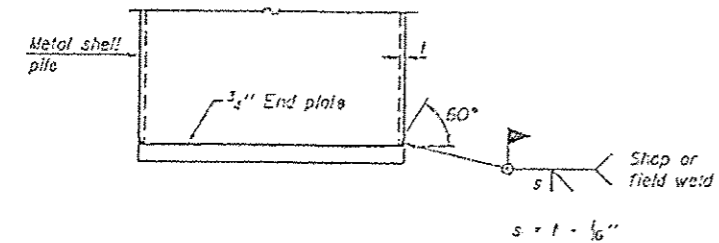


ELEVATION

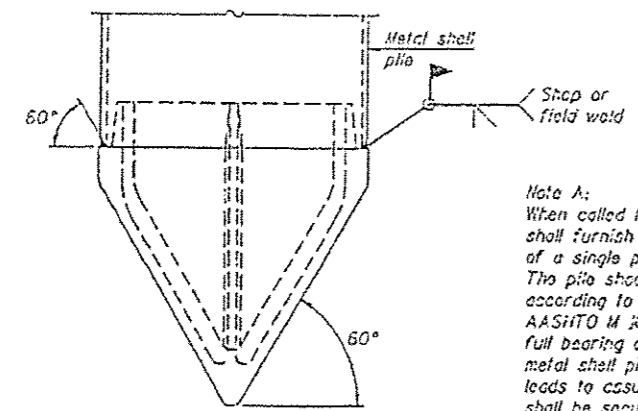
SECTION A-A

Note:
 Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASUREMENT AT PIERS



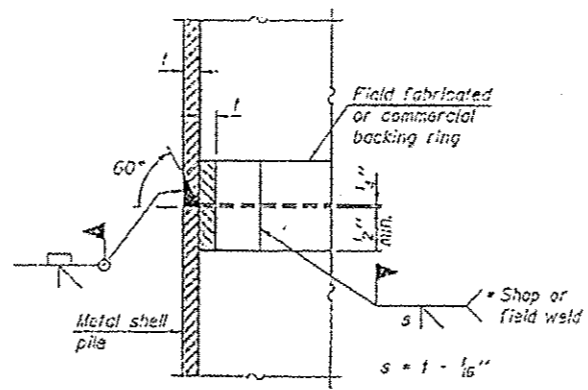
END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

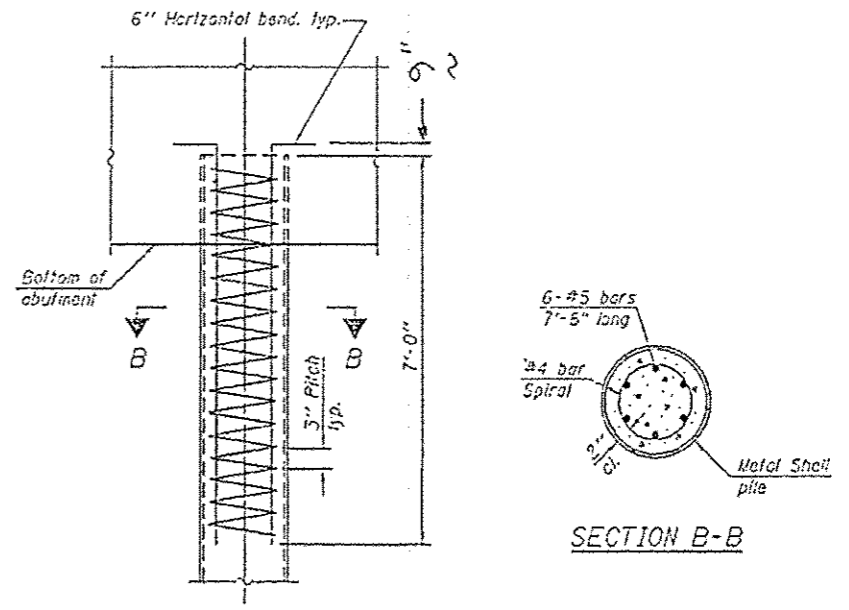
(See Note A.)

Note A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
 The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS

7-1-10

FILE NAME *	LEDR NAME *	DESIGNED *	REVISED *	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TAMPICO RD. BRIDGE	METAL SHELL PILE DETAILS STRUCTURE NO. 052-3371	SHEET NO. OF SHEETS	F.A. SITE	SECTION	COUNTY	TOTAL SHEETS
		CHECKED *	REVISED *								15
PILOT SCALE *	DRANN *	REVISED *	15								
PILOT DATE *	CHECKED *	REVISED *	15								
								CONTRACT NO. 05583		ILLINOIS FED. AID PROJECT	