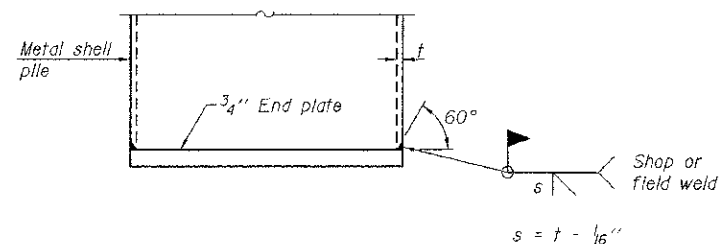
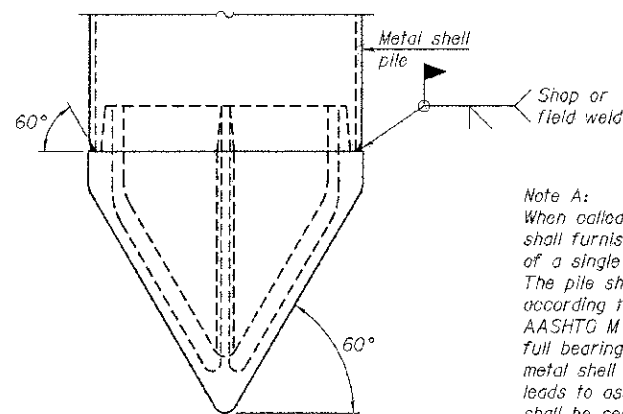


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361

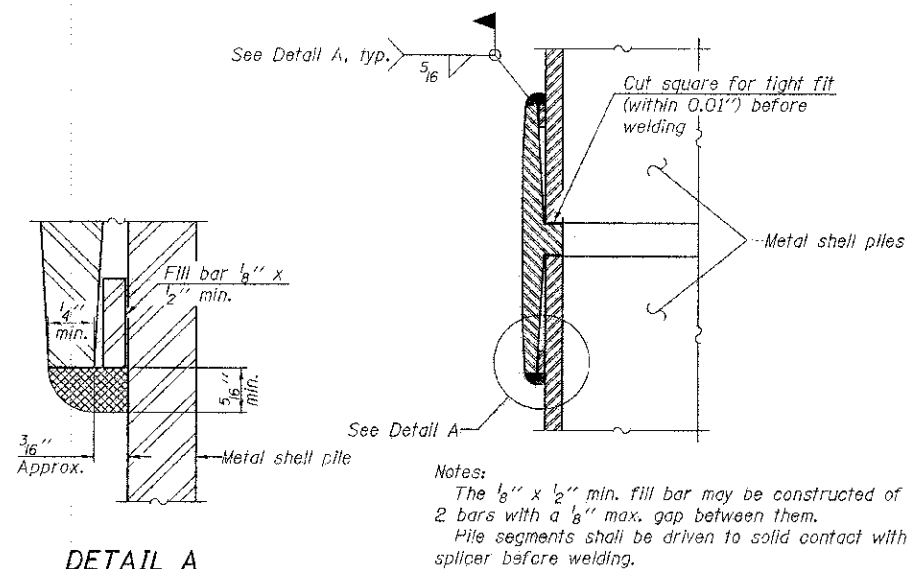


END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT
(See Note A)

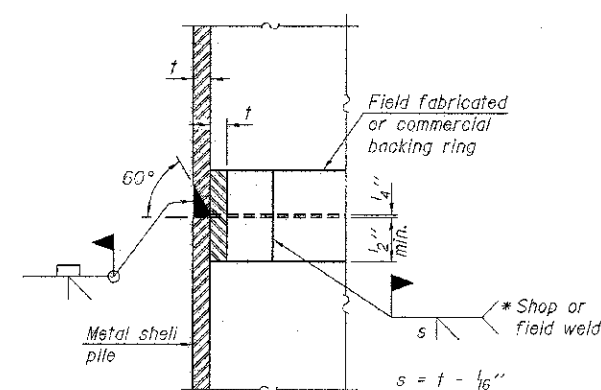
Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35, and shall provide full bearing over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



DETAIL A

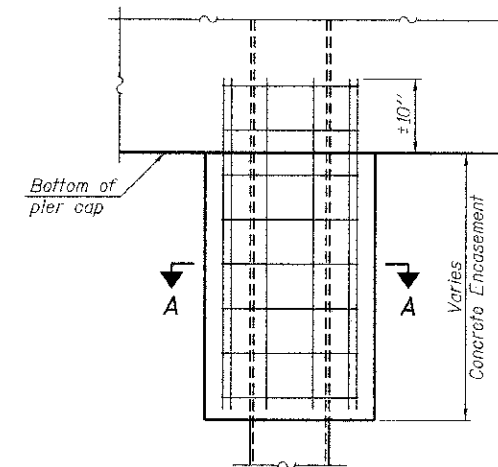
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" 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.



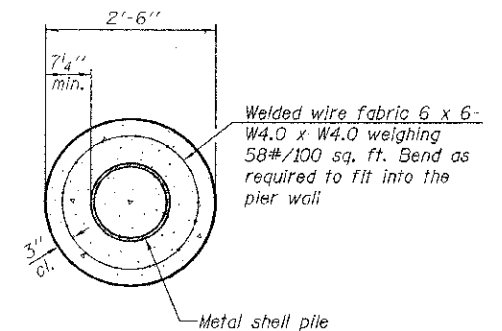
COMPLETE PENETRATION WELD SPLICE

* 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.



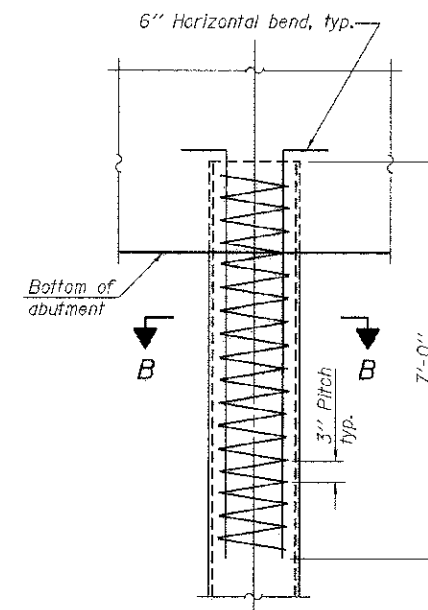
ELEVATION

CONCRETE ENCASEMENT AT PIERS



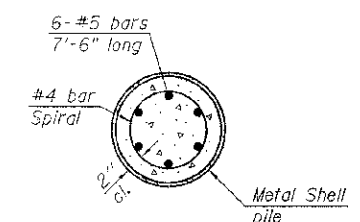
SECTION A-A

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



ELEVATION

METAL SHELL REINFORCEMENT AT ABUTMENTS



SECTION B-B

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

F-MS

7-1-10

FILE NAME = 110294-ehb-bridge.dgn	USPR NAME =	DESIGNED - D.W.T.	REVISED -	STATE OF ILLINOIS WAYNE COUNTY HIGHWAY DEPARTMENT	METAL SHELL PILE DETAILS STRUCTURE NO. 096-3457	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3005 STEVENSON DRIVE, SUITE 101 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.W.	REVISED -			493	06-15142-00-BR	WAYNE	13	11
ILLINOIS PROFESSIONAL DESIGN FIRM 1377 E. 105th ST. - 104-00000	PLOT DATE = 11/6/2012	DRAWN - D.A.B.	REVISED -			LEECH ROAD DISTRICT	CONTRACT NO. 95695			
		CHECKED - S.W.W.	REVISED -							