

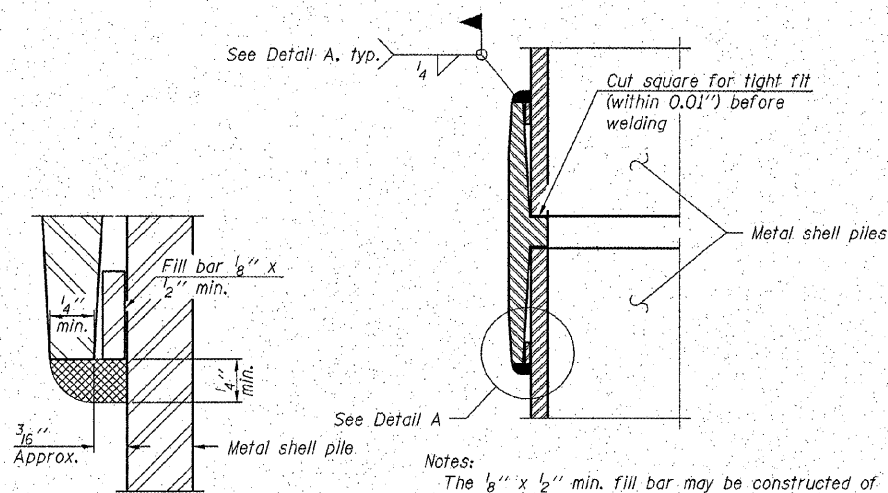
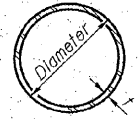
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO.
F.A.P. 313	(7BY)BR	HENDERSON	68	32	18
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract #68149

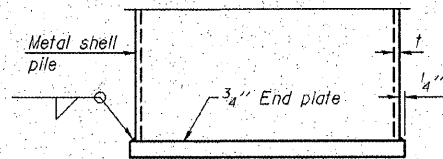
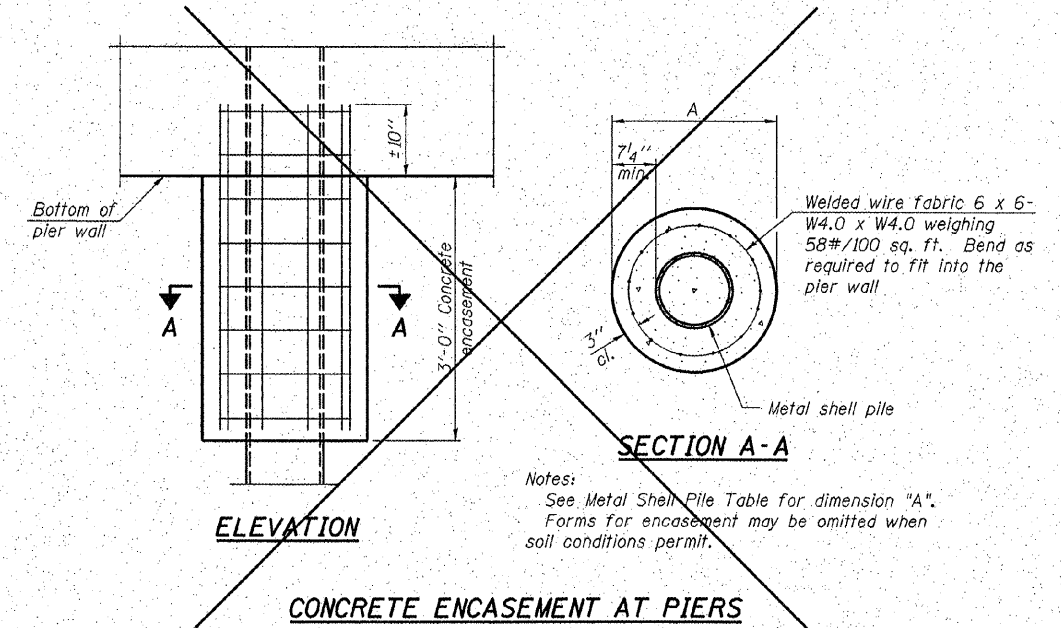
METAL SHELL PILE TABLE

Designation	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)	Encasement diameter A
PP12	0.170"	22.60	0.0274	30"
PP12	0.250"	31.37	0.0267	30"
PP14	0.250"	36.71	0.0368	30"
PP14	0.312"	45.61	0.0361	30"

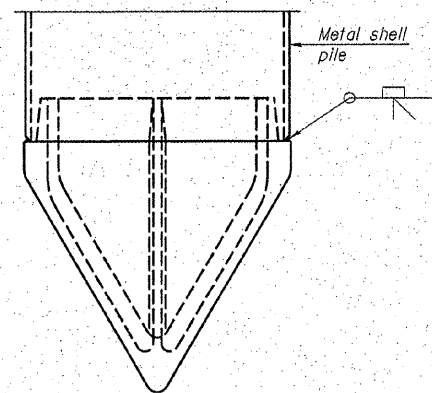


Notes:  
The  $\frac{1}{8}$ " x  $\frac{1}{2}$ " min. fill bar may be constructed of 2 bars with a  $\frac{1}{8}$ " max. gap between them.  
Pile segments shall be driven to solid contact with splicer before welding.

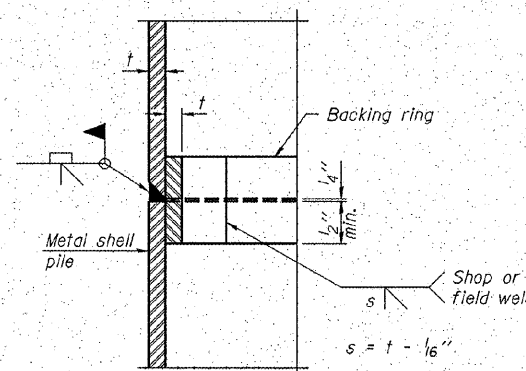
WELDED COMMERCIAL SPLICE



END PLATE ATTACHMENT

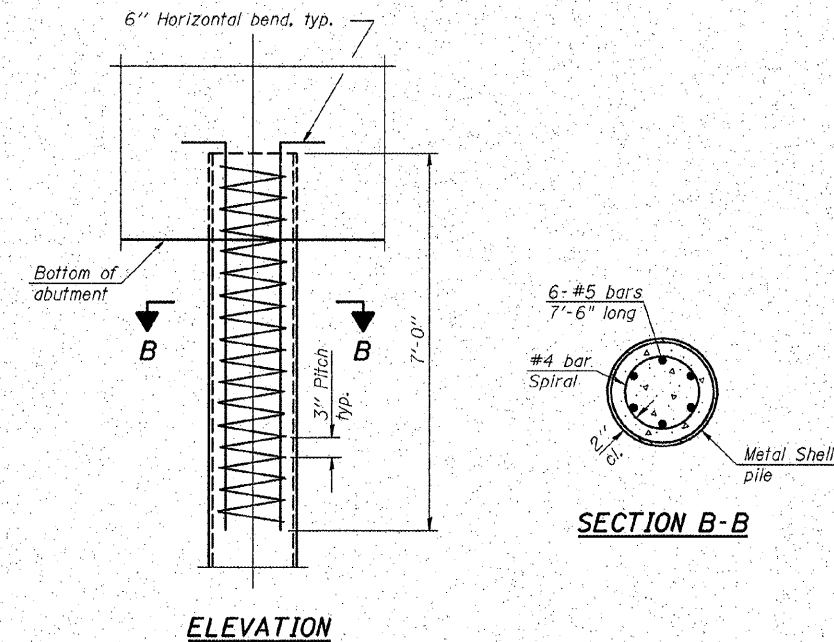


METAL SHELL PILE SHOE ATTACHMENT



COMPLETE PENETRATION WELD SPLICE

Note:  
Backing ring made from pile shell. Remove segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



METAL SHELL REINFORCEMENT AT ABUTMENTS

The cost of reinforcement in piles is included with the cost of driving and filling shells.

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

HAMPTON, LENZINI & RENWICK, INC.  
CIVIL & STRUCTURAL ENGINEERS  
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12 44 0001-1    DATE: 11/19/07  
DESIGNED: D.A.B.    CHECKED: M.G.B.    DRAWN: D.T.M.

METAL SHELL PILE DETAILS

U.S. 34 OVER P.D. CREEK  
F.A.P. 313 / SECTION (7BY)BR  
HENDERSON COUNTY  
STRUCTURE NO. 036-0052 / STATION 301+23