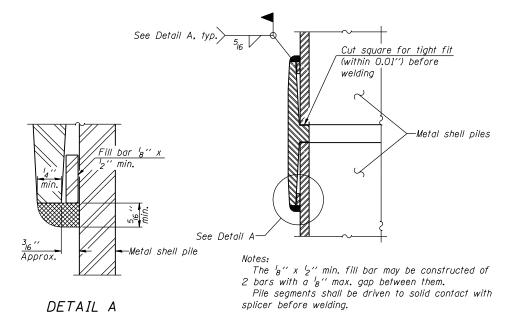
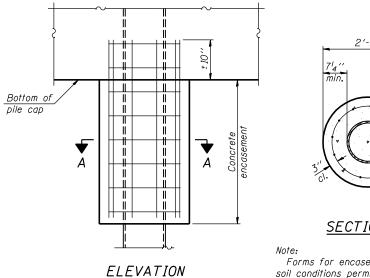


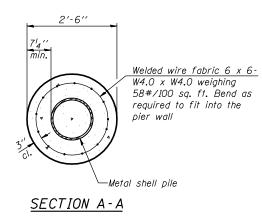
METAL SHELL PILE TABLE

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	



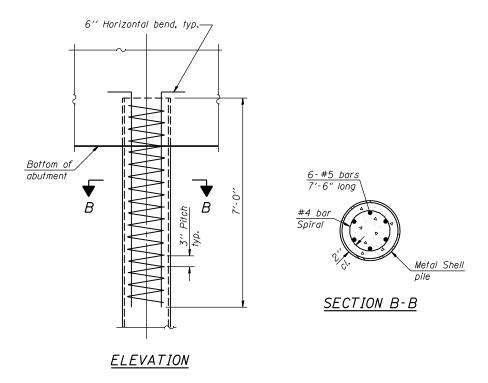
WELDED COMMERCIAL SPLICE





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

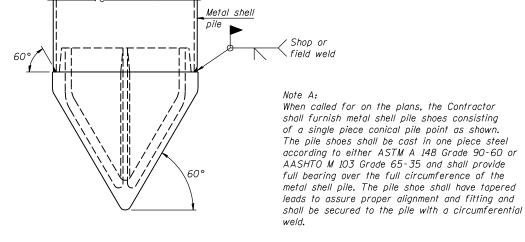
CONCRETE ENCASEMENT AT PIERS



METAL SHELL REINFORCEMENT AT ABUTMENTS

Metal shell pile 3_4 " End plate 5_4 " Shop or field weld 5_5 = $1 - 1_6$ "

END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

1-27-12

COMPLETE PENETRATION WELD SPLICE

Metal shell

* 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.

Nota.

Field fabricated

or commercial

backing ring

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

* Shop or

field weld

GRØEF
8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631; (773) 399-0112

F-MS

USER NAME =	DESIGNED	-	J.Z.	6/15/2012	REVISED	-
	CHECKED	-	J.A.Z.	6/15/2012	REVISED	-
PLOT SCALE =	DRAWN	-	E.U.B.	6/15/2012	REVISED	-
PLOT DATE =	CHECKED	-	J.J.G.	6/15/2012	REVISED	-

STATE OF	ILLINOIS		
DEPARTMENT OF TRANSPORTATION			

METAL SHELL PILE DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
STRUCTURE NO. 045-0039	349	(10 & 11VB) R-3	KANE	507	306		
SINUCIONE NO. 043-0035		CONTRACT NO. 60133					
SHEET NO. S85 OF 116 SHEETS	ILLINOIS FED. AID PROJECT						

0003\cad\structural\dgn\045-0039_final\00\Di60!33-s085-mtl-shll-piles.dgn ...n.33_pM