### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



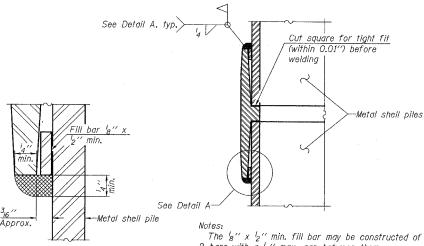
• 125X-HB-(1&2) R-1

CONTRACT # 60826



### 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



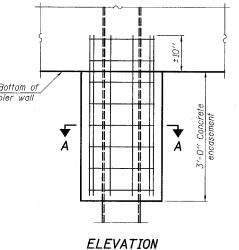
2 bars with a 18" max. gap between them. Pile segments shall be driven to solid contact with splicer before welding.

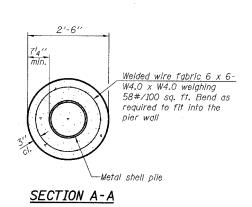
## WELDED COMMERCIAL SPLICE

-Backing ring

/Shop or

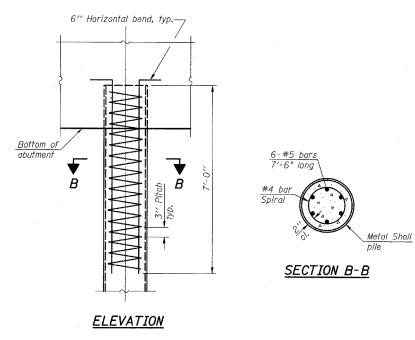
field weld





Forms for encasement may be omitted when soil conditions permit.

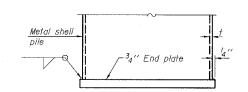
# CONCRETE ENCASEMENT AT PIERS



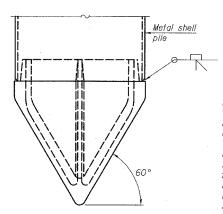
# METAL SHELL REINFORCEMENT AT ABUTMENTS

### METAL SHELL PILES

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132 SECTION 125X-HB-(1&2)R-1 LAKE COUNTY S.N. Ø49-Ø2Ø9



## 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

DETAIL A

# COMPLETE PENETRATION WELD SPLICE

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

Metal shell

#### TYLININTERNATIONAL

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	CO			
	SP			
-	AD			
-	MAF			
-	AD			
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F-MS 9-3-07

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