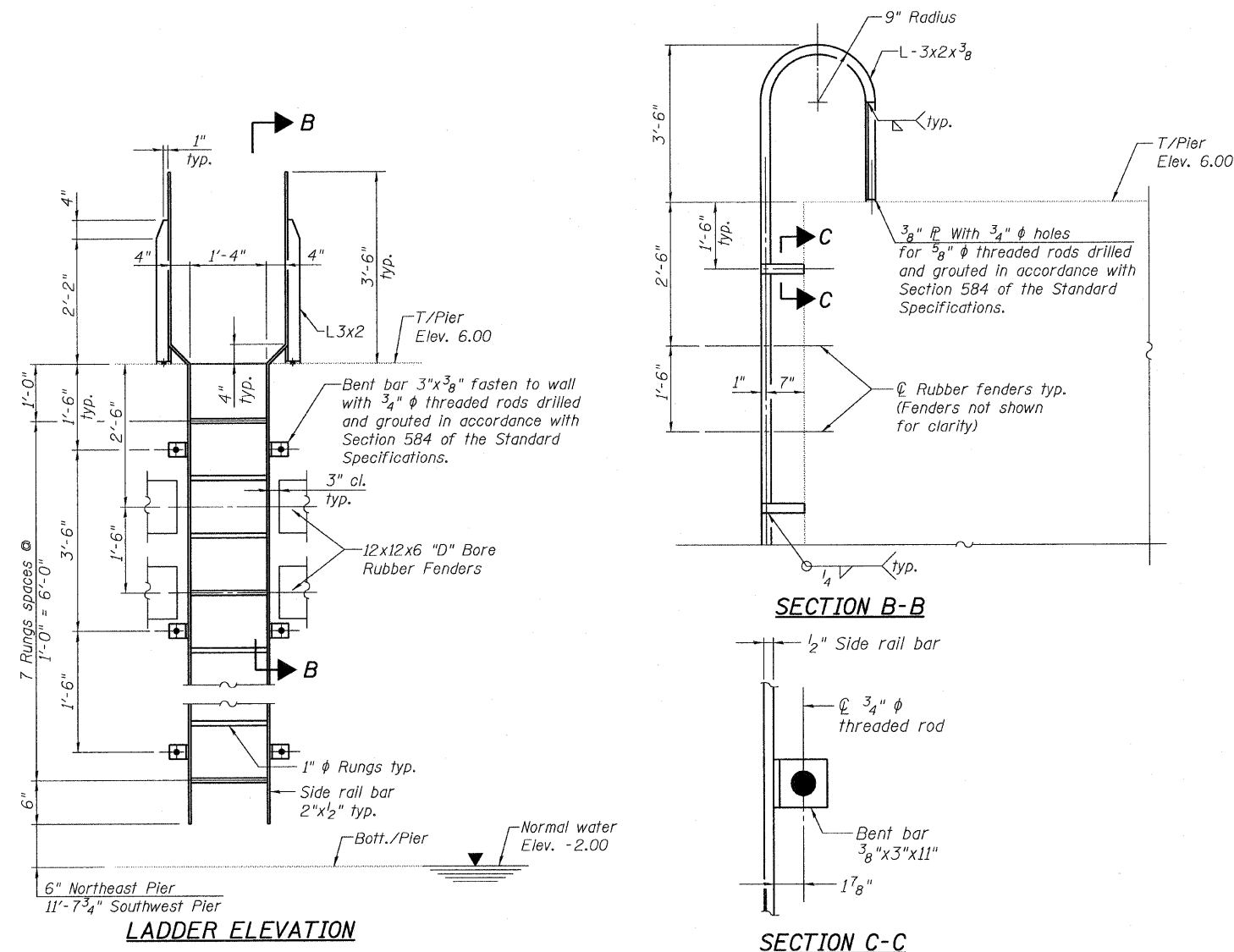


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7
F.A.P. 389	2424.2 B-1	COOK	23	14	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 60E11



**RIVER PIER DOCK LADDER DETAILS**

All steel shall be hot dipped galvanized in accordance with ASTM A 153 unless otherwise noted

**BILL OF MATERIAL**

Item	Unit	Total
Removal of Existing Timber Fenders	L. Sum	1.0
Fender System	L. Sum	1.0
Remove Existing Timber Pile Dolphins	Each	2
Dolphins	Each	2
Navigation Lighting System	L. Sum	1.0

**ESTIMATED QUANTITIES**

Item	Unit	Total
Removal of Existing Timber Fenders		
Dock Ladder Removal	Each	2
Timber Fender Removal	Foot	611
Remove Existing Timber Pile Dolphins		
Steel Jacket Removal	Pound	9,432
Bituminous Concrete Capping Removal	Cu. Yd.	5.2
12" $\phi$ Timber Pile Removal	Foot	4,218
Fender System		
Dock Ladders	Each	2
Rubber Fenders	Foot	643
Dolphins		
Concrete Filled Metal Shell Piles, 14" $\phi$	Foot	4,810
Steel Jackets	Pound	11,282
Concrete Capping	Cu. Yd.	4.0
Rubber Fenders	Foot	50
Ship Ladders	Each	2

Not to be included in the Bill of Material. This estimate is for information only and includes all items required to quantify the removal and replacement of both dolphins and the fender system on both river piers.

DESIGNED	S. CHELBIAN
CHECKED	A. HAMMAD
DRAWN	D.C.PATEL
CHECKED	A. HAMMAD



MISCELLANEOUS DETAILS  
F.A.P. RT. 389 - SEC. 2424.2 B-1  
COOK COUNTY  
STATION 380+68.75  
STRUCTURE NO. 016-2445