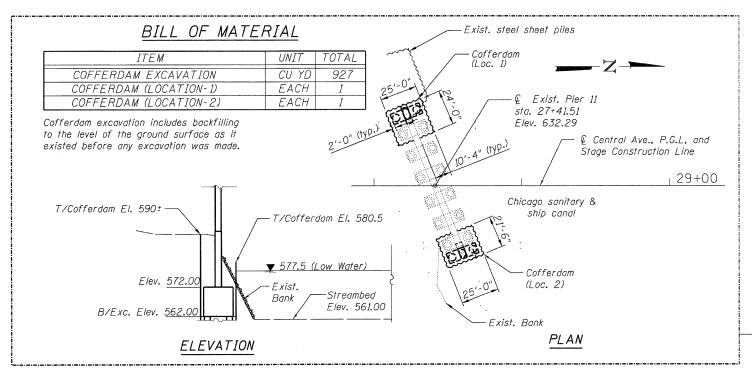
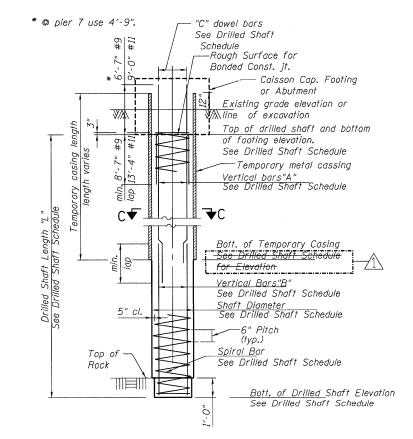
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





<u>CAISSON SECTION</u>

DRILLED SHAFT SCHEDULE

	DRILLED SHAFT SCHEDULE													
	Pier	Size		Reinforcement				Top of	Bottom of Shaft	Allowable Bearing				
		Shaft Diameter	Shaft Length"L"	Vertical Bars "A"	Vertical Bars "B"	Dowel Bars "C"	Spiral Bars	Shaft Elevation	Elevation	Presure (tsf)				
······						-				Exist	New			
-	7	4'-0"	73′-0"	19-1#9 V 601(E)	19-#9 V 601(E)	19-#9 71 ₆₀₁ (E)	#5 SP 601 (E)	589.50	516.50	20.0	15.6			
	8	5′-0"	75′-6"	16-#9 v 612(E)	16 - #9 v 612(E)	16 - #9 n 611 (E)	#5 sp 611 (E)	595.00	519.50	20.0	17.9			
	9	4'-9"	75′-6"	19-#11 v 623(E)	19-#11 v 623(E)	19-#11 n 620(E)	#5 sp 621 (E)	595.00	519.50	20.0	17.6			
	10	6′-6"	72′-0"	31-#11 v ₆₃₂ (E)	31-#11 v 632(E)	31- #11 n 630(E)	#5 sp 631 (E)	592.00	520.00	20.0	16.8			
	11	5′-6"	42'-6"	22-#9 V 643(E)		22-#9 n 641(E)	#5 sp ₆₄₀ (E)	562.00	519.50	20.0	15.8			

NOTES:

- 1. Drilled shafts shall be installed according to article 516 of the Standard Specifications.
- Elevations, shaft lengths, and reinforcement lengths shown are estimates and should be verified and adjusted in the field as directed by the engineer.
 - In constructing the drilled shafts, the Contractor may encounter pavements, fill, foundations, abandoned utilities, boulders, and other obstructions. No separate payment will be made for removal for of any such obstructions, and the cost for removing such obstructions shall be included in the contract unit price for caisson shafts.
- Adjacent new caissons may be constructed simultaneously provided that they are not closer than 16.5 feet on centers. At least 36 hours shall have elapsed after the completion of a caieson before excavation for adjacent caissons closer than 16.5 feet on center is started.
- 5. Temporary casing specified shall be used to mitigate soil and ground water contamination, and to ensure that adjacent existing caissons and/or piles are not undermined during excavation for new caissons. The Contractor shall submit, for the Engineer's approval, his/her proposed methods, equipment and procedures for the installation and removal of the temporary casing so as not to undermine or damage the existing caissons and piles. The extraction of the casing shall be performed so as not to disturb the caisson reinforcing cage or impair the structural integrity of the constructed caisson.
- 6. If field conditions dictate a shorter shaft length than shown, the Contractor shall cut the reinforcement bars to the required length. If the shaft length is longer than indicated, the Contractor shall extend the reinforcement by providing additional reinforcement of equal size and lapping with the minumum lap length shown. either mechanically spliced or lapped splice in accordance with Section 516.11.

- 9. The caisson shaft and reinforcement shall be adjusted as required by the Engineer. These additional quantities required by the Engineer and furnished by the Contractor will be paid for at the unit price bid for the work.
- 10. At all locations where reinforcements bar laps are not in direct contact, the Contractor shall provide sufficient spacing between the vertical bars, equal to the size of the largest concrete aggregate plus ¹2".
- 11. For location of drilled shafts See sheets 55 thru 64.
- 12. For Bill of Material see sheets 2.

<u>DRILLED SHAFTS</u> STRUCTURE NO. 016-3240

Orient vertical bars to

maximize spacing for

transverse footing bars

Lonaitudinal footina

Spiral bars

Vertical bars

longitudinal and

Transverse.

footing bars

TOP PLAN

Showing orientation

of vertical bars

SECTION C-C

SHEET	NO. 65	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
J. 122 /	140. 05	55	0711.2R & 1011.1BR	COOK	741	668
73	SHEETS			CONTRACT	NO. 60	999
		FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	ID PROJECT		