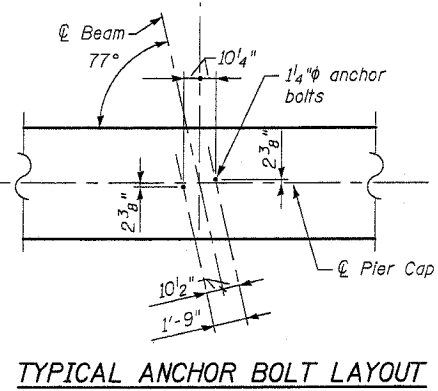
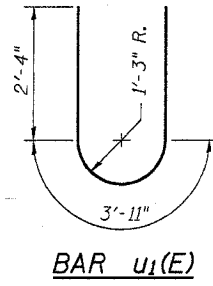


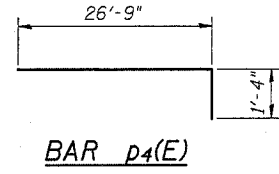
Contract No. 62098



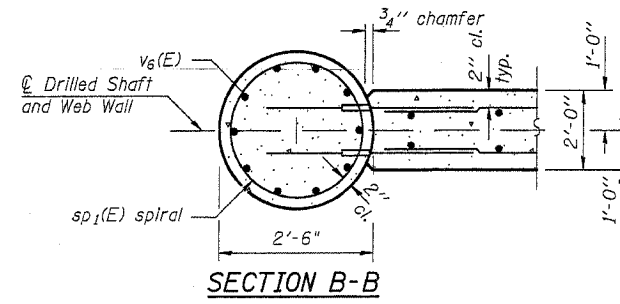
TYPICAL ANCHOR BOLT LAYOUT



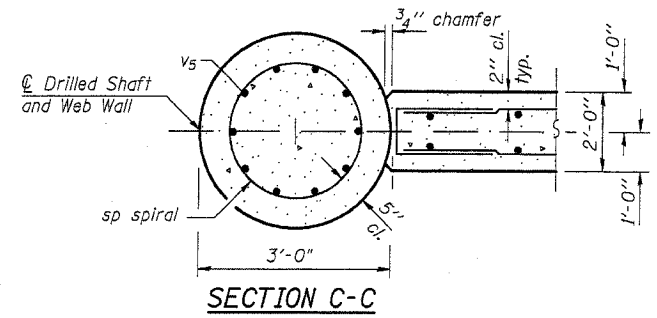
BAR u1(E)



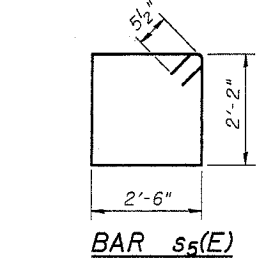
BAR p4(E)



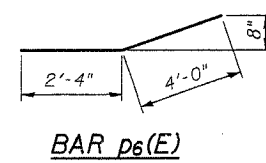
SECTION B-B



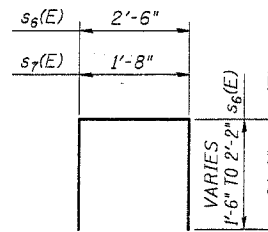
SECTION C-C



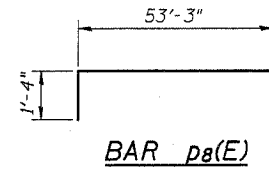
BAR s5(E)



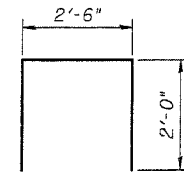
BAR p6(E)



BARS s6(E) & s7(E)



BAR p8(E)



BARS s8(E)

PIER 1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	4	6	30'-9"	—
h4(E)	84	5	7'-6"	—
h5(E)	126	5	7'-0"	—
h6(E)	4	6	49'-3"	—
p4(E)	5	8	28'-1"	—
p5(E)	4	6	24'-4"	—
p6(E)	8	6	6'-4"	—
p7(E)	4	5	6'-2"	—
p8(E)	5	8	54'-7"	—
p9(E)	4	6	50'-10"	—
p10(E)	4	5	32'-8"	—
s5(E)	76	5	10'-3"	—
s6(E)	24	5	6'-2"	—
s7(E)	126	5	5'-8"	—
s8(E)	43	5	6'-6"	—
sp	8	3	23'-6"	—
sp1(E)	8	3	4'-4"	—
u1(E)	6	6	8'-7"	—
v5	80	9	23'-5"	—
v6(E)	80	6	10'-8"	—
v7(E)	112	5	4'-3"	—
v8(E)	112	5	8'-2"	—
Underwater Structure Excavation Protection Location 1		Each	1	
Structure Excavation		Cu. Yd.	14.4	
Drilled Shaft in Soil 36" Dia.		Foot	91	
Drilled Shaft in Rock 30" Dia.		Foot	96	
Concrete Structures		Cu. Yd.	73.5	
Reinforcement Bars, Epoxy Coated		Pound	6350	
Reinforcement Bars		Pound	7395	
Bar Splicers		Each	185	

**Length is height of spiral.

PIER 2 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	4	6	30'-9"	—
h4(E)	84	5	7'-6"	—
h5(E)	126	5	7'-0"	—
h6(E)	4	6	49'-3"	—
p4(E)	5	8	28'-1"	—
p5(E)	4	6	24'-4"	—
p6(E)	8	6	6'-4"	—
p7(E)	4	5	6'-2"	—
p8(E)	5	8	54'-7"	—
p9(E)	4	6	50'-10"	—
p10(E)	4	5	32'-8"	—
s5(E)	76	5	10'-3"	—
s6(E)	24	5	6'-2"	—
s7(E)	126	5	5'-8"	—
s8(E)	43	5	6'-6"	—
sp	8	3	23'-6"	—
sp1(E)	8	3	4'-4"	—
u1(E)	6	6	8'-7"	—
v5	80	9	23'-5"	—
v6(E)	80	6	10'-8"	—
v7(E)	112	5	4'-3"	—
v8(E)	112	5	8'-2"	—
Underwater Structure Excavation Protection Location 2		Each	1	
Structure Excavation		Cu. Yd.	14.4	
Drilled Shaft in Soil 36" Dia.		Foot	91	
Drilled Shaft in Rock 30" Dia.		Foot	96	
Concrete Structures		Cu. Yd.	73.7	
Reinforcement Bars, Epoxy Coated		Pound	6350	
Reinforcement Bars		Pound	7395	
Bar Splicers		Each	185	

**Length is height of spiral.

Construction Sequence for Web Wall:

1. Excavate between shafts to elevation of web wall base and set lower web wall forms through water to bear on the circular edge of drilled shafts. Secure in place with fill, struts or tie forms together as required.
2. Place the lower web wall reinforcement cage into the forms using spacers to maintain proper clearances.
3. If the forms can be sealed against the shafts and streambed to allow dewatering, the reinforcement and the concrete placement may be completed in the dry. Alternatively, the rebar cage can be lowered into position through water and the concrete discharged at the base of the excavation through a tremie pipe or pump hose, displacing water, sediment, and tainted concrete out the top of the forms.
4. Construct Columns.
5. Construct upper web walls.
6. The lower and upper web walls between the Stage 1 and Stage 2 shafts and columns shall be constructed during Stage 2. The upper web wall must be poured up under the cantilevered Stage 1 pier cap.

DESIGNED	MJM
CHECKED	WHE
DRAWN	EAB
CHECKED	WHE

LOWCO, INC.
CONSULTING ENGINEERS 630 NORTH WASHINGTON ST., SUITE 205
NAPERVILLE, ILLINOIS 60563 (630) 577-9100

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER DETAILS
US ROUTE 30 (LINCOLN HIGHWAY)
OVER LILY CACHE CREEK
WILL COUNTY
F.A.P. ROUTE 0575 SEC. 14BR
STATION 28+22.14 NEW STRUCTURE NO. 099-4648
DATE 03/24/05