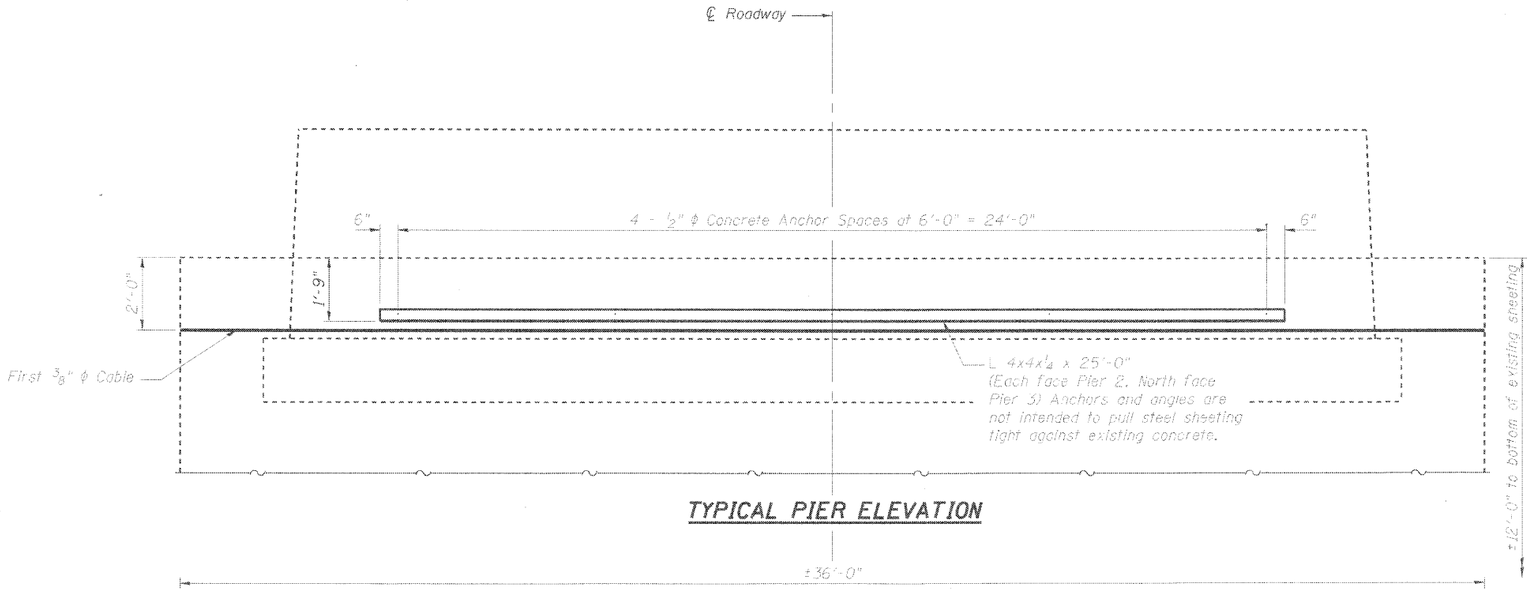
CONTRACT NO. 66601

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SN. 053-0050 EMERGENCY REPAIR PLANS - FOR INFORMATION ONLY - STRUCTURE TO BE REMOVED

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Livingston	354	150
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3
4 SHEETS



TYPICAL PIER ELEVATION

TYPICAL PIER PLAN

The Contractor shall provide galvanized, corrugated steel panels to cover the existing steel cofferdam. The entire exposed surface of the existing sheeting at Pier 2 from the top of the existing sheeting to streambed shall be covered. The exposed surface on the North, East and West faces at Pier 3 from the top of the existing sheeting to streambed shall be covered. The corrugated steel panels shall be 16 gage minimum. The panels shall have a minimum lap of either two corrugations or 6". The lap shall be in a manner that the stream flow does not go behind the lap. It shall be the Contractors responsibility to prevent hydraulic blowout of the steel panels and existing cofferdam while placing grout slurry.

⅜" diameter steel cables shall be installed around the entire pier sheeting. Maximum spacing of the steel cables shall not exceed 4'-0". Estimated length of ⅜" diameter steel cables required = 430 feet. (5 cables for Pier 2, 2 cables for Pier 3)

This work will be paid for at the contract unit price per square foot for COFFERDAM REPAIR, which price shall include steel panels, cables, angles, anchors, equipment and labor to satisfactorily complete the work.

The grout mixture shall be 385kg/ cu m (6.50 hundredweight/ cu yd) of Portland cement plus fine aggregate and water. Fly ash may replace a maximum of 310kg/ cu m (5.25 hundredweight/ cu yd) of the Portland cement. The water/cement ratio shall not exceed 0.60. An air-entraining admixture shall be used to produce an air content of not less than 6.0 percent nor more than 9.0 percent of the volume of grout. The Contractor shall have the option to use a water-reducing or high range water-reducing admixture.

The Contractor shall provide access to properly install grout slurry in the voids below the existing pier footing and between existing steel sheeting and existing concrete to the top of existing sheeting.

This work will be paid for at the contract unit price per cubic yard for GROUT SLURRY, which price shall include grout, equipment and labor to satisfactorily complete the work.

DESIGNED	J.S.B.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	J.S.B. A.T.H.

October 1, 2004

EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PIER COFFERDAM REPAIR
S.B.I. RT. 47
LIVINGSTON COUNTY
SN 053-0050