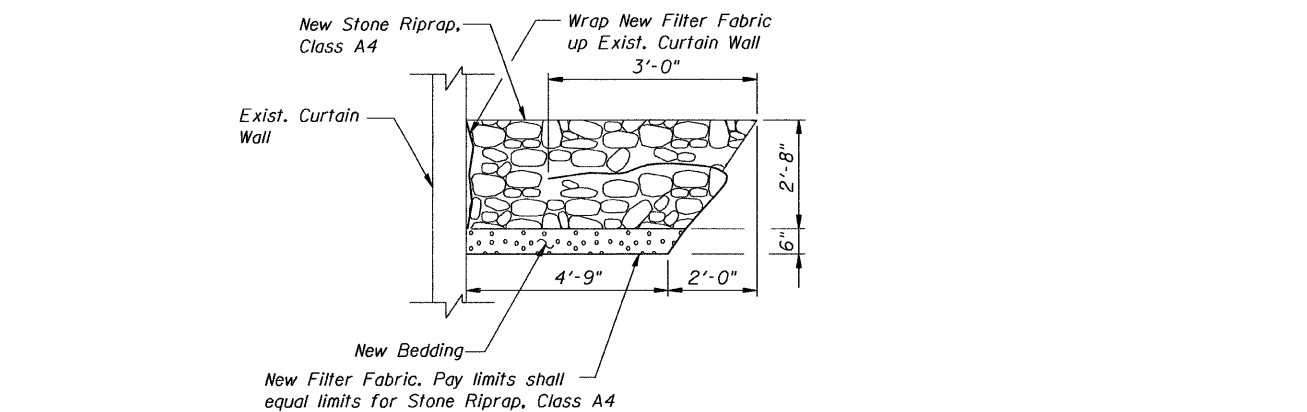
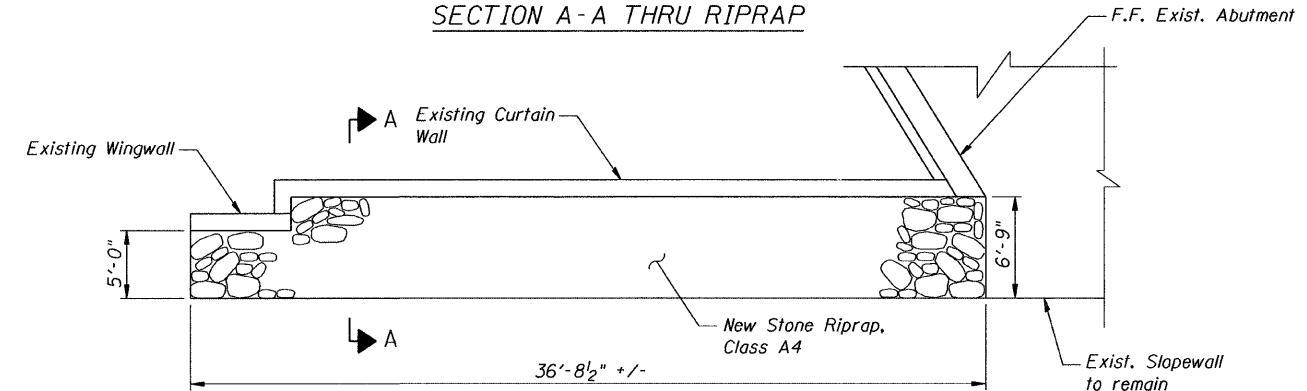


**EXIST. SOUTH ABUTMENT & UNFOLDED EXIST. CURTAIN WALLS ELEVATION**  
(Looking South)

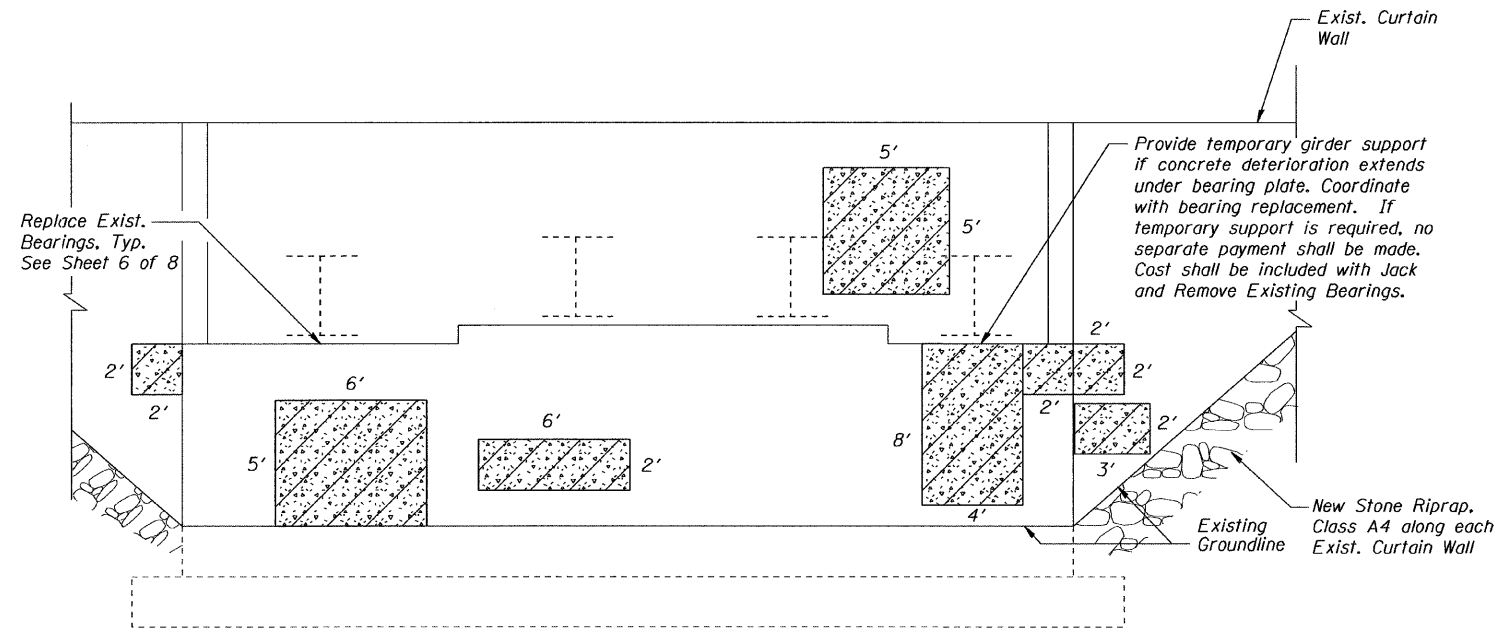


**SECTION A-A THRU RIPRAP**

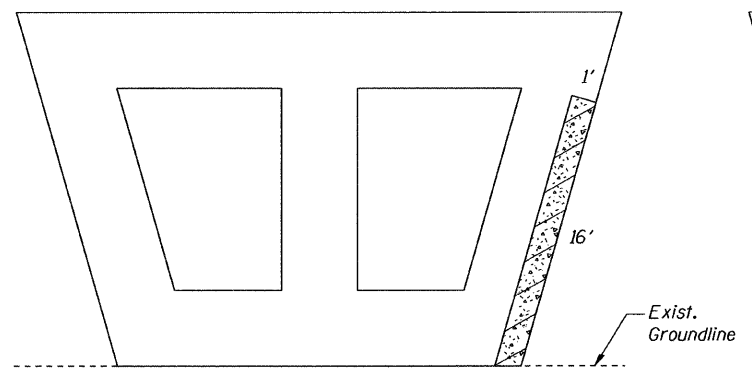


**RIPRAP PLAN AT ABUTMENTS**

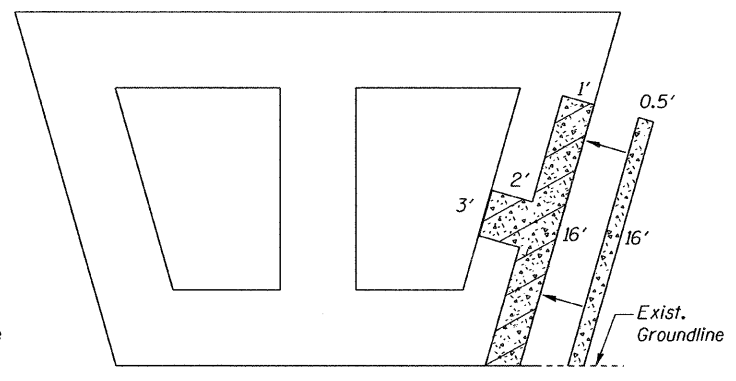
(Exist. North Abutment, west side shown. Other locations similar)



**EXIST. NORTH ABUTMENT & UNFOLDED EXIST. CURTAIN WALLS ELEVATION**  
(Looking North)



**EXISTING PIER ELEVATION**  
(Looking North)



**EXISTING PIER ELEVATION**  
(Looking South)

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq. Yd.	115
Filter Fabric	Sq. Yd.	115
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	295

**LEGEND**

Structural Repair of Concrete (Depth Equal to or Less than 5")

Note:  
Quantity for Structural Repair of Concrete has been increased to include additional repair areas not apparent at the time of the inspection. The actual repair areas will be determined by the Resident Engineer. The Contractor will be paid for the quantity furnished.

DESIGNED	S.D.H.
CHECKED	E.E.J.
DRAWN	M.S.M.
CHECKED	S.D.H.

**SUBSTRUCTURE REPAIR & RIPRAP DETAILS**  
C.H. 49 (317th STREET) OVER I-88  
F.A.I. ROUTE 88  
SECTION: BRIDGE DECK REPAIRS 2007-1  
ROCK ISLAND COUNTY  
STATION 2130+77.86  
S.N. 081-0132  
DATE: 12-09-08  
GRAEF, ANHALT, SCHLOEMER & ASSOCIATES INC  
CHICAGO ILLINOIS

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12/8/2008