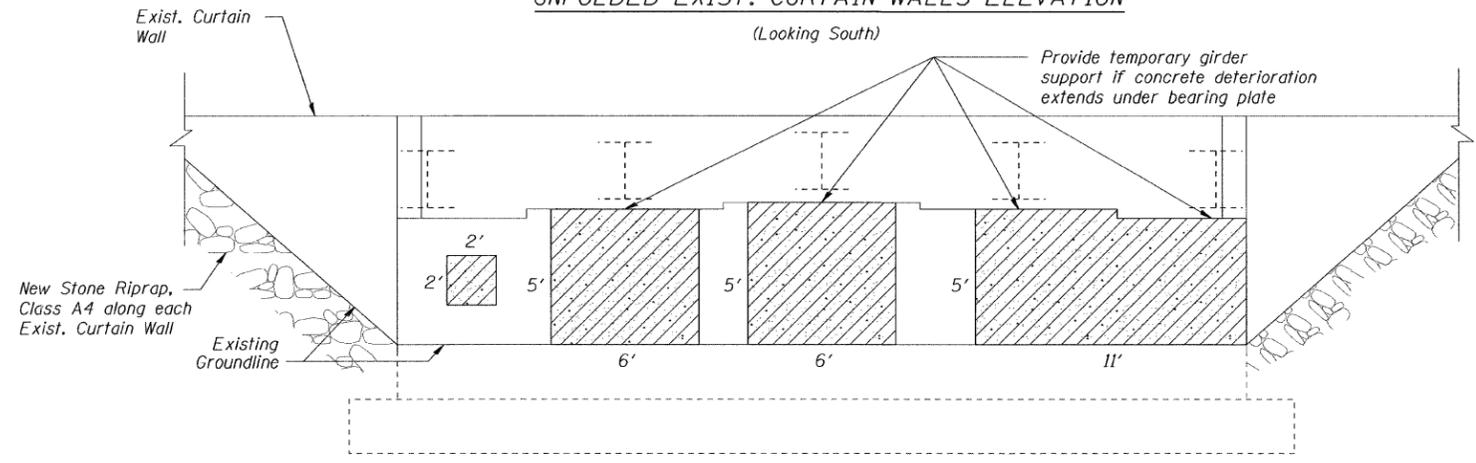
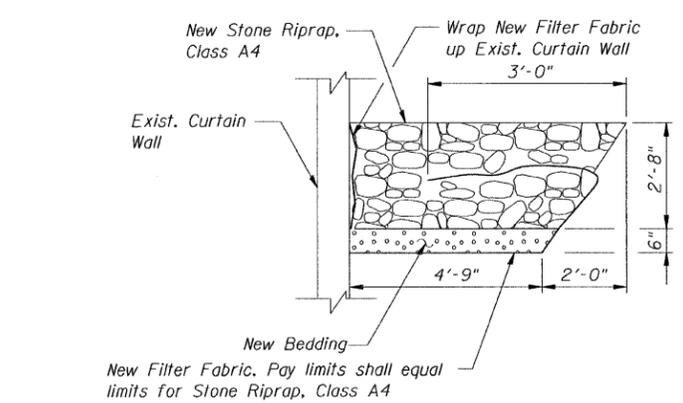


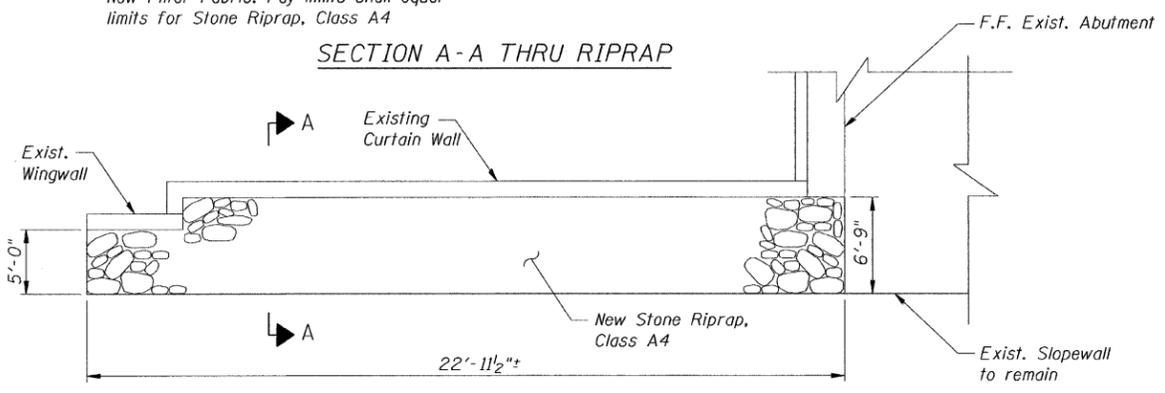
EXIST. SOUTH ABUTMENT & UNFOLDED EXIST. CURTAIN WALLS ELEVATION
 (Looking South)



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



SECTION A-A THRU RIPRAP



RIPRAP PLAN AT EXIST. ABUTMENTS

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

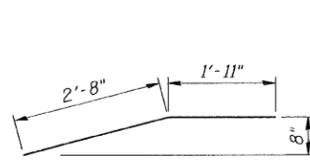
LEGEND

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

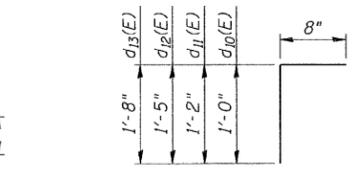
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d ₁₀ (E)	12	#5	1'-8"	┌
d ₁₁ (E)	4	#5	1'-10"	┌
d ₁₂ (E)	4	#5	2'-1"	┌
d ₁₃ (E)	4	#5	2'-4"	┌
e ₁₀ (E)	8	#5	4'-7"	—
e ₁₁ (E)	8	#5	4'-7"	└
Stone Riprap, Class A4		Sq. Yd.	71	
Filter Fabric		Sq. Yd.	71	
Concrete Removal		Cu. Yd.	0.1	
Concrete Superstructure		Cu. Yd.	0.5	
Protective Coat		Sq. Yd.	4	
Reinforcement Bars, Epoxy Coated		Pound	130	
Structural Repair of Concrete (Depth Equal to or Less than 5")		Sq. Ft.	176	

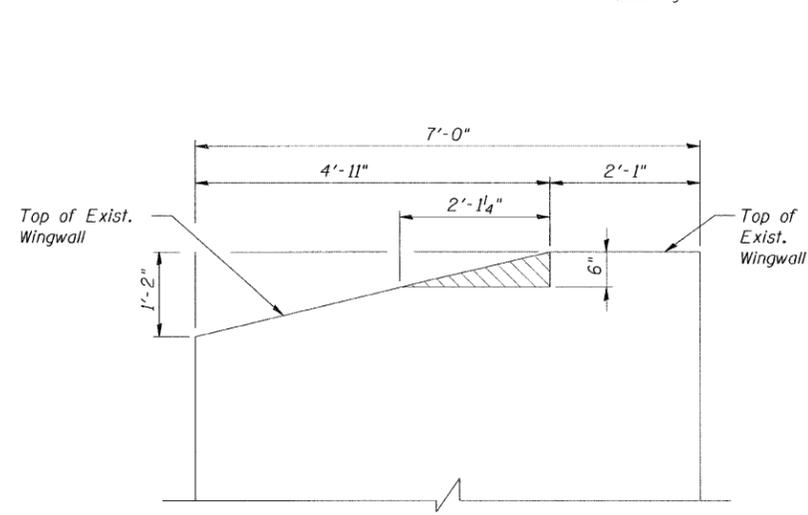
Note: Quantity for Structural Repair of Concrete has been increased to include additional repair areas not apparent at the time of the inspection. The actual repair areas will be determined by the Resident Engineer. The Contractor will be paid for the quantity furnished.



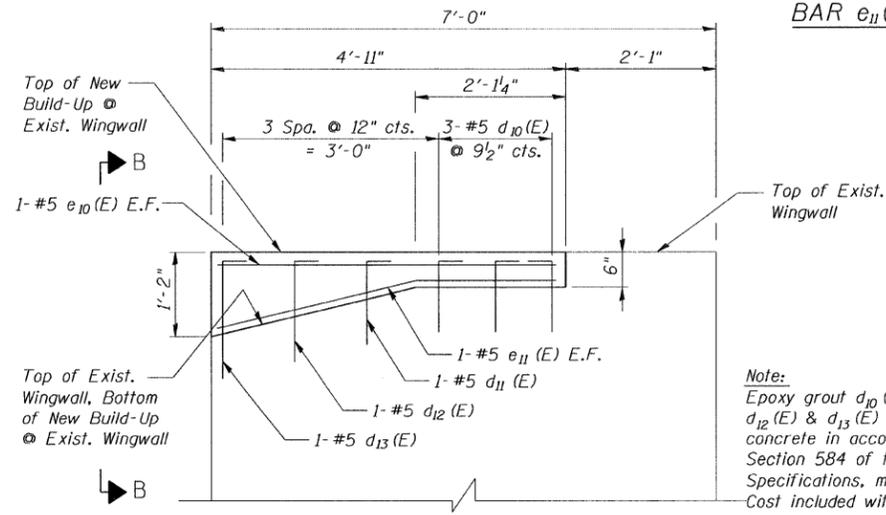
BAR e₁₁(E)



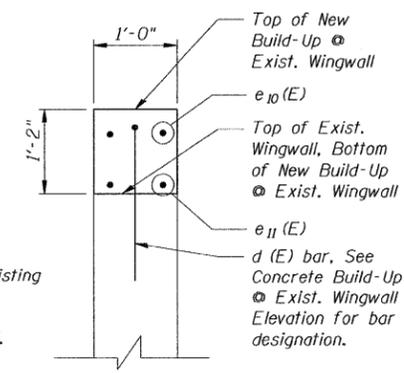
BARS d₁₀(E), d₁₁(E), d₁₂(E), d₁₃(E)



CONCRETE REMOVAL @ EXIST. WINGWALL ELEVATION
 (O.F. of Northwest Exist. Wingwall shown, looking east. Other locations similar)



CONCRETE BUILD-UP @ EXIST. WINGWALL ELEVATION
 (O.F. of Northwest Exist. Wingwall shown, looking east. Other locations similar)



VIEW B-B

Note: Epoxy grout d₁₀(E), d₁₁(E), d₁₂(E) & d₁₃(E) bars into existing concrete in accordance with Section 584 of the Standard Specifications, min. 8" embed. Cost included with Concrete Superstructure.

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

SUBSTRUCTURE REPAIR & RIPRAP DETAILS
 C.H. 37 (LYNDON ROAD) OVER I-88
 F.A.I. ROUTE 88
 SECTION: BRIDGE DECK REPAIRS 2007-1
 WHITESIDE COUNTY
 STATION 3529+69.36
 S.N. 098-0066
 DATE: 12-09-08
 GRAEF, ANHALT, SCHLOEMER & ASSOCIATES INC
 CHICAGO ILLINOIS

n:\jobs\2008\p10\2001-4014.09\098 0066(Lyndon Rd.)\00\098-0066-S50.dgn 12/8/2008