



**PHOEBE NESTING
SITE DETAILS
(Downstream End Only)**

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	U.S.	D.S.
	522.46	522.36

WATERWAY INFORMATION

Existing overtopping Elev. 536.31 ft. @ Sta. 1147+50
 Drainage Area = 4.06 sq. mi. Proposed overtopping Elev. 536.31 ft. @ Sta. 1147+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design Base	50	1730	227	270	534.82	1.14	0.89	0.00	535.71	534.82
Overtopping (E)	15	1180	227	-	535.10	1.26	-	-	536.36	-
Overtopping (P)	55	1750	-	270	535.76	-	0.59	-	536.35	-
Max. Calc.	500	-	-	-	-	-	-	-	-	-

10 year outlet velocity from existing structure = 6.90 fps
 10 year outlet velocity from proposed structure = 3.96 fps

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 All construction joints shall be bonded.
 Precast alternate is not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.		168	168
Stone Riprap, Class A5	Sq. Yd.		453.2	453.2
Filter Fabric	Sq. Yd.		453.2	453.2
Removal of Existing Structures	Each			1
Concrete Superstructure	Cu. Yd.	7.8		7.8
Reinforcement Bars, Epoxy Coated	Pound		38,140	38,140
Parapet Railing	Foot	69		69
Name Plates	Each			1
Concrete Box Culverts	Cu. Yd.		238.2	238.2
Rock Fill - Foundation	Cu. Yd.		59	59