



~ELEVATION UPSTREAM FASCIA~  
Scale 3/16" = 1'-0"

~TYPICAL SECTION~  
Scale 3/8" = 1'-0"

Excavate and pour new concrete along bottom of existing abutment as shown and as directed by the Engineer.

SOUTH SIDE, NEW 1" ROUGH BOARD SIDING. MATCH LENGTH AND APPEARANCE OF EXISTING (TYP)

~QUANTITIES~

No.	ITEM	UNIT	TOTAL	FINAL
202.30	PARTIAL REMOVAL OF STRUCTURE	Ea.	1	
204.25	STRUCTURE EXCAVATION	CY	50	
301.15	SUBBASE OF GRAVEL	CY	50	
501.25	CONCRETE, CLASS B	CY	20	
502.10	SHORING SUPERSTRUCTURE	L.S.	1	
506.93	STRUCTURAL STEEL	Lbs.	230	
507.15	REINFORCING STEEL	Lbs.	1600	
514.10	WATER REPELLENT	Gal.	12	
611.20	UNTREATED LUMBER & TIMBER	MBF	3.4	
611.25	TREATED LUMBER & TIMBER	MBF	14.9	
613.11	STONE FILL, TYPE II	CY	10	
621.38	GUARD RAIL, HEAVY DUTY STEEL BEAM w/ WOOD POSTS, TYPE II (ASTM A588)	L.F	200	
635.10	MOBILIZATION	L.S.	1	
665.15	REMOVE EXISTING ROOF	SF	3100	
665.18	METAL ROOFING	SF	3100	

~HYDRAULIC DATA~

DRAINAGE AREA = 109.4 Sq. Mi.  
 Q2.33 = 1860 cfs, H.W. EL. 732.1, VELOCITY 5.1 f.p.s.  
 Q10 = 2700 cfs, H.W. EL. 733.4, VELOCITY 5.9 f.p.s.  
 Q25 = 3150 cfs, H.W. EL. 734.1, VELOCITY 6.3 f.p.s.  
 Q50 = 3500 cfs, H.W. EL. 734.6, VELOCITY 6.6 f.p.s.  
 Q100 = 3800 cfs, H.W. EL. 734.9, VELOCITY 6.7 f.p.s.

HARDWARE (STRUCTURAL STEEL)				
No.	ITEM	LENGTH	WEIGHT	REMARKS
36	1" Ø Bolts	1'-2"	130	w/(1) Hex Nut & (2) washers
450	3/8" Ø Lag Bolts	0'-6"	100	w/(1) Washer

ALL NAILS AND HARDWARE SHALL BE GALVANIZED PER ASTM A153. NAILS SHALL BE PAID FOR UNDER TREATED & UNTREATED LUMBER AND TIMBER. SEE NOTES #8 & #9

**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

TOWN OF IRASBURG	Bridge No. 20
HIGHWAY NO. CLASS 3, TH B	Log Sta. —
TH B OVER BLACK RIVER	Surv. Sta. —
ELEVATION & TYPICAL SECTION	
Designed by	Drawn by M. CERUTTI
Checked by G. SCHELLEY date 8/83	Bridge Design Supervisor E.L. DOLLEY date 2-84
PROJECT IRASBURG	PROJECT NO. TH 3146
Bridge Sheet No.	Sheet 2 of 10