



- NOTES:**
- FOR FIELD SPLICE DETAILS, SEE TYPICAL GIRDER SPLICE DETAILS, BRIDGE SHEET BR522.
 - ALL STRUCTURAL STEEL WITHIN 5.60 m OF END OF THE GIRDER AT EXPANSION ENDS SHALL BE COATED WITH A PROTECTIVE PAINT SYSTEM, WITH THE FINAL COAT TO BE A DARK BROWN (COLOR CHIP #20059) TO BLEND WITH THE WEATHERING STEEL. AFTER THE FINAL COAT OF PAINT HAS CURED, A COAT OF GREASE RUSTPROOFING COMPOUND SHALL BE APPLIED TO ALL PAINTED SURFACES CONFORMING TO SECTION 513 OF THE SPECIFICATIONS. THE COST OF THE PAINT AND GREASE RUSTPROOFING SHALL BE PAID FOR UNDER ITEM 513.25, "STRUCTURAL PAINTING, SHOP APPLIED."
 - GIRDER FLANGES AND WEBS OVER PIER LOCATIONS SHALL BE AASHTO M270M/M270, GR485W STEEL.
 - UNLESS OTHERWISE NOTED, ALL STEEL IS AASHTO M270M/M270, GR345W.
 - FOR BEARING STIFFENER AND CONNECTION PLATE DETAILS, SEE STEEL DETAILS SHEET (1 OF 2), BRIDGE SHEET BR520.
 - NO STUDS SHALL BE INSTALLED ON OR WITHIN 75 OF GIRDER SPLICE PLATES.
 - STUD SPACING IS MEASURED FROM ABUTMENT OR PIER BEARING LOCATIONS TOWARD THE SPLICE LOCATIONS.
 - FOR DRIP PLATE DETAILS, SEE STEEL DETAILS SHEET (1 OF 2), BRIDGE SHEET BR520.
 - ALL AASHTO M270M/M270, GR345W STEEL WILL BE PAID UNDER ITEM 506.56 "STRUCTURAL STEEL, CURVED PLATE GIRDER (2800 WEB DEPTH)." ALL AASHTO M270M/M270, GR485W STEEL WILL BE PAID UNDER ITEM 900.635 "SPECIAL PROVISION (HIGH PERFORMANCE STEEL GRADE 485W)."

* MEMBERS INDICATED SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH SECTION 714.01 OF THE SPECIFICATIONS.

GIRDER ELEVATION
NOT TO SCALE

GIRDER	STUD LOCATION 1		STUD LOCATION 2		STUD LOCATION 3		TOTAL STUDS PER GIRDER
	SPACES N1	LENGTH (m) L1	SPACES N2	LENGTH (m) L2	SPACES N3	LENGTH (m) L3	
G1, G2, & G3	20	12.0	61	36.6	64	38.4	924
G4, G5, & G6	20	12.0	62	37.2	65	39.0	936

SPAN LENGTHS (m)				
GIRDER	CURVE RADII	SPAN 1	SPAN 2	TOTAL
G1	566.950	70.499	70.499	141.748
G2	569.750	70.847	70.847	142.444
G3	572.550	71.195	71.195	143.141
G4	575.350	71.544	71.544	143.837
G5	578.150	71.892	71.892	144.534
G6	580.950	72.240	72.240	145.230

GIRDER SCHEDULE				
FIELD SPLICE LOCATION TABLE (m)				
GIRDER	X(1)	X(2)	Z(1)	Z(2)
G1	19.967	19.967	12.399	12.399
G2	20.065	20.065	12.460	12.460
G3	20.164	20.164	12.521	12.521
G4	20.263	20.263	12.583	12.583
G5	20.361	20.361	12.644	12.644
G6	20.460	20.460	12.705	12.705

GIRDER SCHEDULE						
GIRDER	TOP FLANGE (m)					
	A	B	C	D	E	F
G1	12.399	38.133	19.967	19.967	38.133	12.399
G2	12.460	38.322	20.065	20.065	38.322	12.460
G3	12.521	38.510	20.164	20.164	38.510	12.521
G4	12.583	38.698	20.263	20.263	38.698	12.583
G5	12.644	38.887	20.361	20.361	38.887	12.644
G6	12.705	39.075	20.460	20.460	39.075	12.705

GIRDER SCHEDULE				
GIRDER	BOTTOM FLANGE (m)			
	G	H	I	J
G1	50.532	19.967	19.967	50.532
G2	50.782	20.065	20.065	50.782
G3	51.031	20.164	20.164	51.031
G4	51.281	20.263	20.263	51.281
G5	51.531	20.361	20.361	51.531
G6	51.780	20.460	20.460	51.780

GIRDER SCHEDULE		
GIRDER	POINT OF DEAD LOAD COUNTERFLEXURE (m)	
	Y(1)	Y(2)
G1	19.069	19.071
G2	19.357	19.353
G3	19.545	19.545
G4	19.704	19.706
G5	19.942	19.938
G6	20.260	20.270

SEE ALSO SHOP DRAWINGS



STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of BENNINGTON Bridge No. B12

Highway No. VT RTE 279 Log Sta. Surv. Sta.

VT ROUTE 279 OVER FURNACE BROOK

GIRDER ELEVATION

Designed By J.J. MANUSE Drawn By D.J. HENDERSON

Checked By B.J. CARLSON Date 04/07 Bridge Design Supervisor K.M. WOJTKOWSKI Date 04/07

PROJECT BENNINGTON PROJECT NO. AC NH FO19-1(53)

TVGA CAD Drawing No. FBGrd.dgn Date 04/10/2007

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