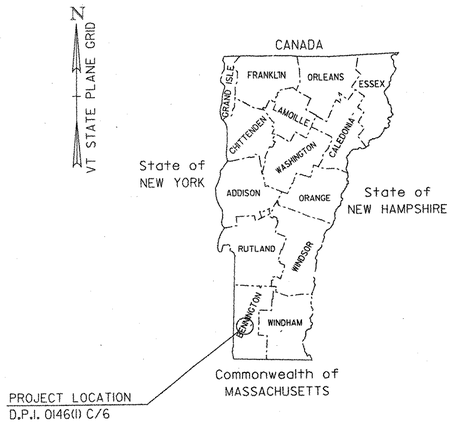
INDEX OF SHEETS
SEE DWG. NO. IND-1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
TOWN OF BENNINGTON
COUNTY OF BENNINGTON
VT. ROUTE 279
BENNINGTON-HOOSICK D.P.I. 0146(1) C/6

BEGINNING APPROXIMATELY 5175 m (3.216 MILES) EAST OF THE VERMONT/NEW YORK STATE LINE AT W.B. STA. 17+305.027 AND E.B. STA. 17+298.377, BENNINGTON - HOOSICK D.P.I. 0146(1) C/6 PROCEEDS EASTERLY 514.973 m (0.320 MILE) CROSSING VT. ROUTE 67A, VT. RAILWAY AND HISTORIC VT. ROUTE 7A BEFORE TERMINATING AT THE U.S. ROUTE 7 INTERCHANGE AT W.B. STA. 18+000.000 AND E.B. STA. 18+000.000.

LENGTH OF ROADWAY	1075.412 m	(0.668 MILE)
LENGTH OF STRUCTURE	321.184 m	(0.200 MILE)
LENGTH OF PROJECT	1396.596 m	(0.868 MILE)

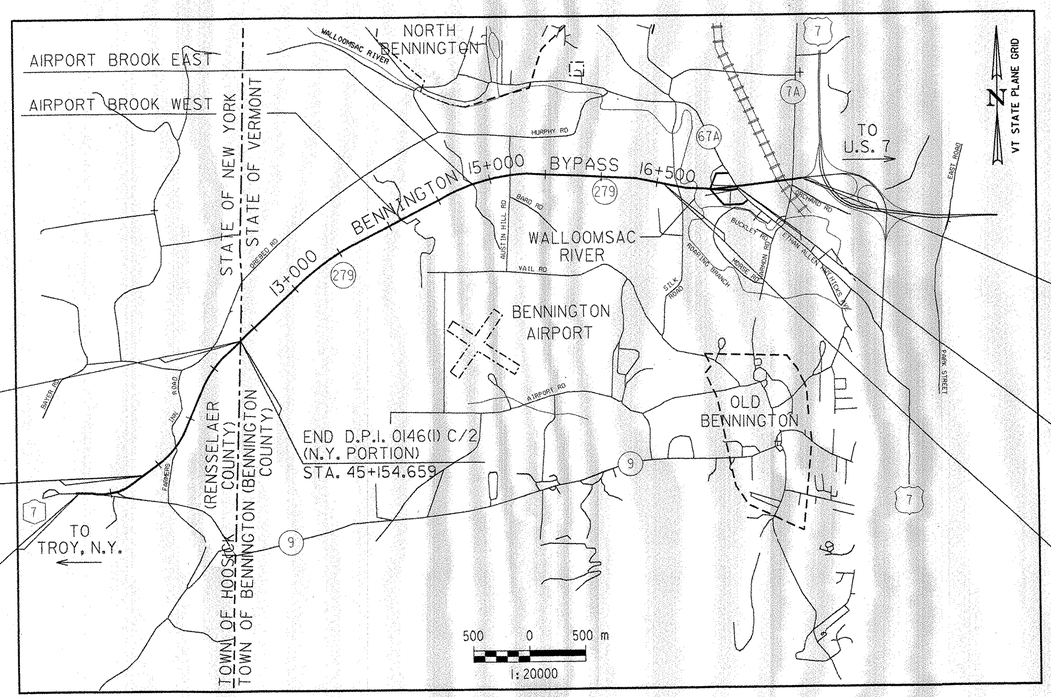


TRAFFIC DATA

2000 ADT = 5300
2020 ADT = 6600
2020 ADTT = 460
2020 DHV = 840
T = 7%
D = 52%
V = 100 km/h
2000 ~ 2020 CUM. ESALS = 4,825,000
2000 ~ 2040 CUM. ESALS = 17,229,000
PRINCIPAL ARTERIAL

BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE / DESIGN LIFE ESAL	2,509,000
DESIGN NUMBER OF GYRATIONS	100
PERFORMANCE GRADED ASPHALT BINDER	PG 58-28

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING, RESURFACING WITH A SHIM/LEVELING COURSE AND WEARING COURSE; BRIDGE REHABILITATION WORK, MILLED RUMBLE STRIPS, GUARDRAIL IMPROVEMENTS, DRAINAGE IMPROVEMENTS, PAVEMENT MARKINGS, SIGNING AND INCIDENTAL ITEMS.



BEGIN D.P.I. 0146(1) C/3 (VT. PORTION)
STA. 12+130.455

END D.P.I. 0146(1) C/1
BEGIN D.P.I. 0146(1) C/2 (N.Y. PORTION)
STA. 43+275.000

BEGIN D.P.I. 0146(1) C/1 (N.Y. PORTION)
STA. 42+880.000

END D.P.I. 0146(1) C/2 (N.Y. PORTION)
STA. 45+154.659

END D.P.I. 0146(1) C/6 (VT. PORTION)
W.B. STA. 18+000.000 &
E.B. STA. 18+000.000

END D.P.I. 0146(1) C/4
BEGIN D.P.I. 0146(1) C/6 (VT. PORTION)
STA. B10+064.800 =
W.B. STA. 17+305.027 &
STA. D10+236.439 =
E.B. STA. 17+298.377

END D.P.I. 0146(1) C/3
BEGIN D.P.I. 0146(1) C/4 (VT. PORTION)
STA. 16+695.000

RECORD PLANS

CONTRACTOR: KUBRICKY CONSTRUCION CORP – GLENS FALLS, NY
RESIDENT ENGINEER: RON LEMAIRE
CONSTRUCTION BEGAN: MAY 16, 2004
CONSTRUCTION COMPLETE: SEPTEMBER 14, 2005
RECORD PLANS BY: RON LEMAIRE & J. GILMORE

I HEREBY CERTIFY THAT ALL THE CONSTUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY Ronald Lemaire RESIDENT ENGINEER
DATE 03/23/07

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.

STATE OF VERMONT THOMAS E. KARIS No. 6298 REGISTERED PROFESSIONAL ENGINEER

PLANS PREPARED BY

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
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ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
111 WINNERS CIRCLE ALBANY, NEW YORK 12205
P.O. BOX 5269 518-453-4500

BY Thomas E. Karis 2/17/04

CONVENTIONAL SIGNS

COUNTY LINE
TOWN LINE
LIMITS OF ACCESS
POINT OF ACCESS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
RAILROAD
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS
TOP OF CUT
TOE OF SLOPE

DATUM

VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHW ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDAN WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 200 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUEN REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

VAOT Metric

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD
APPROVED _____ DATE 2/14/07
DIRECTOR OF PROGRAM DEVELOPMENT

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT BENNINGTON-HOOSICK
D.P.I. 0146(1) C/6
P.I.N. 1306.60
DWG. NO. T-1 SHEET 1 OF 83 SHEE

FILE NAME = c:\516\VAOT\CONTRACT6\COVER.DGN
DATE/TIME = 2/16/2004
USER = 2225

Metric

SHEET NO.	DWG. NO.	
1	T-1	TITLE SHEET
2	IND-1	INDEX OF SHEETS
3	TS-1	TYPICAL SECTION
4-5	PDT-1 TO PDT-2	PAVING DETAIL SHEETS
6-9	Q-1 TO Q-4	QUANTITY SHEETS
10-15	DS-1 TO DS-6	ITEM DETAIL SUMMARY SHEETS
16	HC-1	HORIZONTAL CONTROL TABLE
17	EC-1	EROSION CONTROL DETAIL SHEET
18-19	G-1 TO G-2	GENERAL PLANS
20-23	P-1 TO P-4	PLANS
24-35	CSP-1 TO CSP-12	CONSTRUCTION SEQUENCING PLANS
36-39	TSP-1 TO TSP-4	TEMPORARY SIGNING & STRIPING PLANS
40	CAS-1	CONSTRUCTION APPROACH SIGNING DETAIL SHEET
41-44	SSP-1 TO SSP-4	SIGNING AND STRIPING PLANS
45-49	TSS-1 TO TSS-4	TRAFFIC SIGN SUMMARY SHEETS
50	TSD-1	TRAFFIC SIGN DETAIL SHEET
51	SPD-1	OVERHEAD SIGN PLACEMENT DETAIL SHEET
52-53	MD-1 TO MD-2	APPROACH RAIL - N.E.T.C. 2 RAIL DETAIL SHEETS
54-56	-	BLANK
57	BR1	GENERAL NOTES AND DETAILS
58	BR2	SECTIONS AND DETAILS
59	BR3	PAVEMENT AND CURB DETAILS
60	BR4	BRIDGE RAILING - N.E.T.C. 2 RAIL
61	BR5	SNOW FENCE FOR BRIDGE RAILING - N.E.T.C. 2 RAIL
62	BR800	VT. ROUTE 67A - PLAN AND ELEVATION
63	BR801	VT. ROUTE 67A - EXISTING TRANSVERSE BRIDGE SECTIONS
64	BR802	VT. ROUTE 67A - BRIDGE QUANTITY SHEET
65	BR803	VT. ROUTE 67A - BRIDGE RAILING AND CURB DETAILS
66	BR804	VT. ROUTE 67A - FRAMING PLAN AND STEEL DETAILS
67	BRII00	VT. RAILWAY - PLAN AND ELEVATION
68	BRII01	VT. RAILWAY - EXISTING TRANSVERSE BRIDGE SECTIONS
69	BRII02	VT. RAILWAY - BRIDGE QUANTITY SHEET
70	BRII03	VT. RAILWAY - BRIDGE RAILING AND CURB DETAILS
71	BRII04	VT. RAILWAY - EXPANSION JOINTS AT WEST ABUTMENTS
72	BRII05	VT. RAILWAY - JOINT DETAILS
73	BRII06	VT. RAILWAY - BEARING LAYOUT PLAN AND DETAILS
74	BRII07	VT. RAILWAY - PEDESTAL DETAILS
75	BRI200	HISTORIC VT. ROUTE 7A - PLAN AND ELEVATION
76	BRI201	HISTORIC VT. ROUTE 7A - EXISTING TRANSVERSE BRIDGE SECTIONS
77	BRI202	HISTORIC VT. ROUTE 7A - BRIDGE QUANTITY SHEET
78	BRI203	HISTORIC VT. ROUTE 7A - BRIDGE RAILING AND CURB DETAILS
79	BRI204	HISTORIC VT. ROUTE 7A - EXPANSION JOINTS AT EAST ABUTMENTS
80	BRI205	HISTORIC VT. ROUTE 7A - JOINT DETAILS
81	BRI206	HISTORIC VT. ROUTE 7A - BEARING LAYOUT PLAN AND DETAILS
82	BRI207	HISTORIC VT. ROUTE 7A - BEARING DETAILS
83	BRI208	HISTORIC VT. ROUTE 7A - PEDESTAL DETAILS

ALIGNMENT

AHD.	= AHEAD
BK.	= BACK
℄	= HORIZONTAL CONTROL LINE
Δ	= ANGLE OF INTERSECTION
E	= EXTERNAL DISTANCE
e	= SUPERELEVATION RATE
H.C.L.	= HORIZONTAL CONTROL LINE
L	= LENGTH
P.C.	= POINT OF CURVATURE
P.C.C.	= POINT OF COMPOUND CURVATURE
P.I.	= POINT OF INTERSECTION
P.T.	= POINT OF TANGENT
R	= RADIUS
STA.	= STATION
T	= TANGENT

VAOT STANDARDS

C-1M	CAST IN PLACE CONCRETE CURB	01-03-00
D-3M	TREATED GUTTERS	06-13-97
D-6M	REINFORCED CONCRETE DROP INLET WITH GRATE FOR USE IN DITCHES	06-13-97
D-9M	REINFORCED CONCRETE DROP INLET WITH VERTICAL CURB, REINFORCED CONCRETE DROP INLET WITH THROAT ADAPTOR	06-13-97
D-11M	STEEL GRATE, CAST IRON GRATE TYPE A, CAST IRON COVER	06-13-97
D-13M	CONCRETE CATCH BASIN WITH A CAST IRON GRATE, CONCRETE MANHOLE WITH A CAST IRON GRATE	01-03-00
D-15M	CAST IRON GRATE WITH FRAME, TYPE D AND TYPE E	06-13-97
E-100M	CONSTRUCTION APPROACH SIGNS	06-13-97
E-101M	CONSTRUCTION SIGN DETAILS	05-30-03
E-102M	CONSTRUCTION SIGN DETAILS	06-30-03
E-102AM	CONSTRUCTION SIGN DETAILS	06-13-97
E-103M	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY, ONE LANE CLOSED	09-24-98
E-105M	TRAFFIC CONTROL FOR CONSTRUCTION VEHICLE, U-TURNS ON DIVIDED HIGHWAY	04-01-99
E-106M	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	06-13-97
E-107M	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	06-30-03
E-107AM	BREAKAWAY BARRICADE DETAILS	06-13-97
E-108M	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	06-13-97
E-110M	MAJOR MAINTENANCE OPERATION LANE CLOSURE	06-13-97
E-111M	MAINTENANCE OPERATION APPROACH SIGNS	02-17-98
E-112M	TYPICAL MOVING MAINTENANCE OPERATIONS	02-23-98
E-120M	STANDARD SIGN PLACEMENT EXPRESSWAY AND FREEWAY	06-13-97
E-123M	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS	06-13-97
E-126M	TYPICAL FREEWAY INTERCHANGE SIGNING	02-01-00
E-130M	TYPE "B" GUIDE SIGN, ATTACHMENT DETAILS	06-13-97
E-131M	GUIDE SIGN DETAILS	06-13-97
E-132M	GENERAL MOTORIST SERVICE SIGN DETAILS	06-13-97
E-134M	BRIDGE NUMBER PLAQUE	06-13-97
E-136AM	U.S. ROUTE MARKER SIGN DETAILS	06-13-97
E-136BM	STATE ROUTE MARKER - SIGN DETAILS	06-13-97
E-138M	REFERENCE PLAQUE DETAILS STATE AND TOWN HIGHWAYS	05-30-03
E-142M	REGULATORY SIGN DETAILS	06-13-97
E-143M	REGULATORY SIGN DETAILS	06-13-97
E-150M	WARNING SIGN DETAILS	06-13-97
E-151M	WARNING SIGN DETAILS	06-13-97
E-155M	WARNING SIGN DETAILS	06-13-97
E-161M	W-SHAPED STEEL SIGN POST	06-13-97
E-162M	TUBULAR ALUMINUM SIGN POST	06-13-97
E-164M	SQUARE STEEL SIGN POST	06-13-97
E-191M	PAVEMENT MARKING DETAILS	02-01-99
E-192M	PAVEMENT MARKING DETAILS	12-28-98
E-193M	PAVEMENT MARKING DETAILS	06-13-97
E-197M	DELINEATOR PLACEMENT TYPICAL	06-13-97
E-198M	DELINEATOR AND MILE POSTS	06-13-97
E-199M	DELINEATORS AND MILE POST MOUNTING ON BRIDGE RAIL	06-13-97
G-1M	STEEL BEAM GUARDRAIL	01-03-00
G-1DM	STEEL BEAM GUARDRAIL	01-03-00
G-4M	MARKER - GUIDE POSTS - PLANK GUARDRAIL, PLANK RAIL, WOOD MARKER POSTS, STEEL MARKER POSTS	06-13-97
G-18M	PRECAST CONCRETE TEMPORARY TRAFFIC BARRIER	06-13-97
G-19M	GENERIC GRADING PLAN FOR GUARDRAIL TERMINALS	11-15-02
T-1M	TEMPORARY EROSION CONTROL DETAILS	06-13-97
T-2M	TEMPORARY EROSION CONTROL DETAILS	06-13-97

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

FILE NAME =u:\5116\vaot\contract6\index.dgn
DATE/TIME =2/16/2004
USER =2225

INDEX OF SHEETS

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. INDEX.DGN

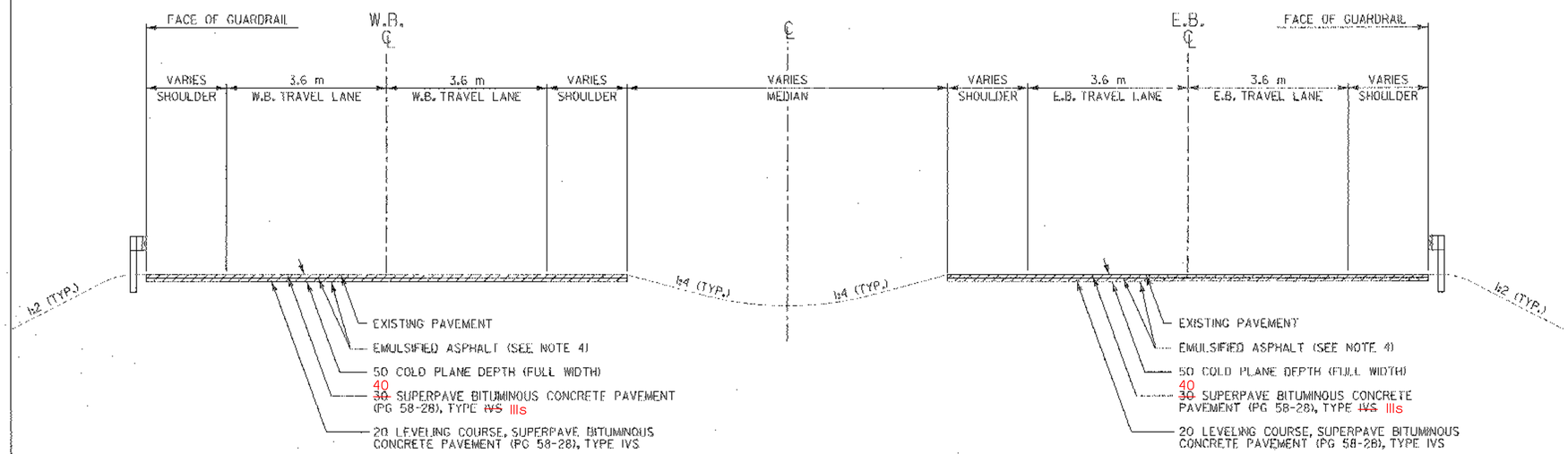
PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. IND-1 SHEET 2 OF 83

TYPICAL SECTION - VT. ROUTE 279 & INTERCHANGE RAMPS

Metric

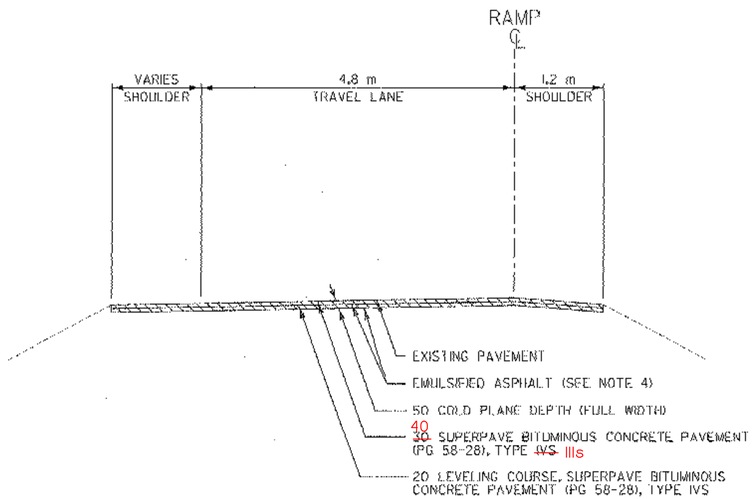


RESURFACING DETAIL

W.B. STA. 17+372.691 - W.B. STA. 18+000.000
E.B. STA. 17+366.002 - E.B. STA. 18+000.000

NOTES:

1. THE WEARING COURSE SHALL BE TYPE ~~IVS~~ IIIs SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28). THE LEVELING COURSE SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28) OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ±5 mm (TOTAL PAVEMENT THICKNESS EXCLUDING LEVELING).
3. THE ENTIRE WIDTH OF THE EXISTING ROADWAY SURFACE SHALL BE COLD PLANED TO A DEPTH OF 50 mm OR AS DIRECTED BY THE RESIDENT ENGINEER. ALL PAVEMENT ON BRIDGES SHALL BE REMOVED UNDER ITEM 529.10 REMOVAL OF BRIDGE PAVEMENT OR AS DIRECTED BY THE RESIDENT ENGINEER.
4. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, ON ALL COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.12 L/m² OR AS DIRECTED BY THE RESIDENT ENGINEER.
5. BITUMINOUS CONCRETE CURB, TYPE B SHALL BE BACKED UP TO FULL HEIGHT WITH ITEM 402.12 AGGREGATE SHOULDERS (MOD.) OR AS DIRECTED BY THE RESIDENT ENGINEER. AN ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE PLANS.
6. A FULL-DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE BEGIN AND END PROJECT LOCATIONS AND AT ALL INTERCHANGE RAMP APPROACHES AS INDICATED ON THE PROJECT PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.



TYPICAL SECTIONS RAMPS E & F

(SHOWN IN DIRECTION OF TRAVEL)
STA. E2+070.000 - STA. E2+471.417
STA. F2+000.000 - STA. F2+100.000

CONSERVATION SEED MIX

% MASS	kg/ha	NAME	PUR.%	GERM.%
37.14	26.0	CREEPING RED FESCUE	98	85
37.14	26.0	TALL FESCUE	95	90
5.71	4.0	RED TOP	95	90
14.30	10.0	BIRDSFOOT TREFOIL	98	85
5.71	4.0	ANNUAL RYEGRASS	95	85
100.0	70.0			

SEED MIXTURE:
SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY MASS AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED:
TO BE APPLIED PER SEEDING FORMULA OR AS DIRECTED BY THE RESIDENT ENGINEER.

FERTILIZER:
FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE:
TO BE APPLIED AT THE RATE OF 4.5 tons/ha OR AS DIRECTED BY THE RESIDENT ENGINEER.

HAY MULCH:
TO BE APPLIED ON EARTH SLOPES AT THE RATE OF 4.5 tons/ha OR AS DIRECTED BY THE RESIDENT ENGINEER.

TOPSOIL:
TO BE USED WITH SEED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

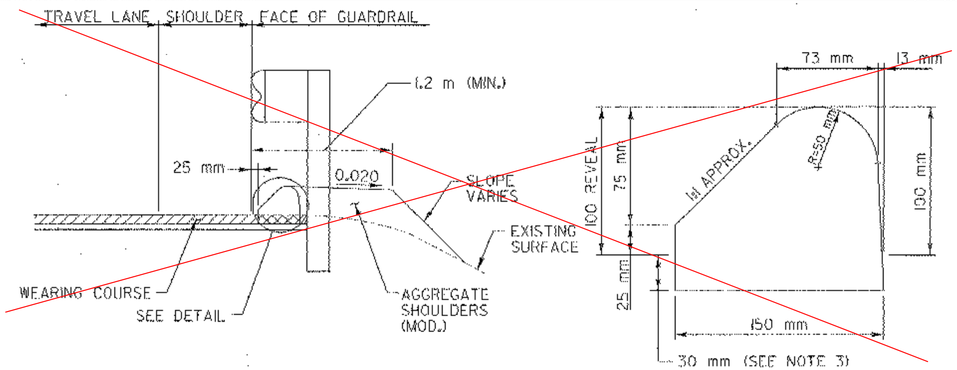
ALL DIMENSIONS IN MILLIMETERS EXCEPT WHERE OTHERWISE INDICATED.

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

FILE NAME = u:\516\vsas\contracts\typ01.dgn
DATE/TIME = 2/16/2004
USER = 2225

TYPICAL SECTIONS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04
DESIGN FILE NO.	TYP01.DGN	
PROJ. NAME	BENNINGTON - HOOSICK D.P.L. 01460 C/6	
PROJ. NO.	P.I.N. 1306.60	
DWG NO.	TS-1	SHEET 3 OF 83

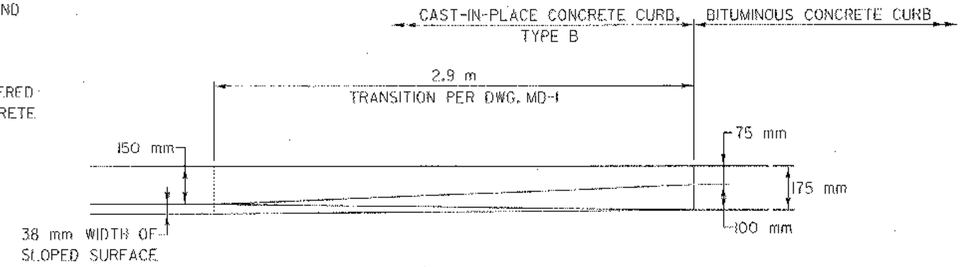


NOTES:

1. BITUMINOUS CONCRETE CURB IS TO BE PLACED PRIOR TO THE INSTALLATION OF GUARDRAIL AND THE PLACEMENT OF THE WEARING COURSE OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. THE CROSS HATCHED AREA SHALL BE CONSIDERED SUBSIDIARY TO ITEM 616.28 BITUMINOUS CONCRETE CURB, TYPE B.
3. MATCH 30 mm FACE TO WEARING COURSE.

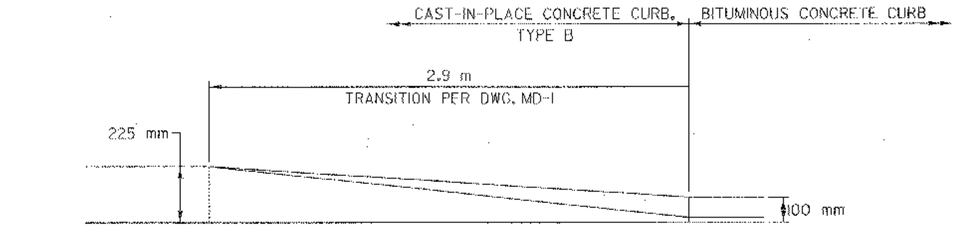
~~BITUMINOUS CONCRETE CURB, TYPE B DETAIL~~

N.T.S.

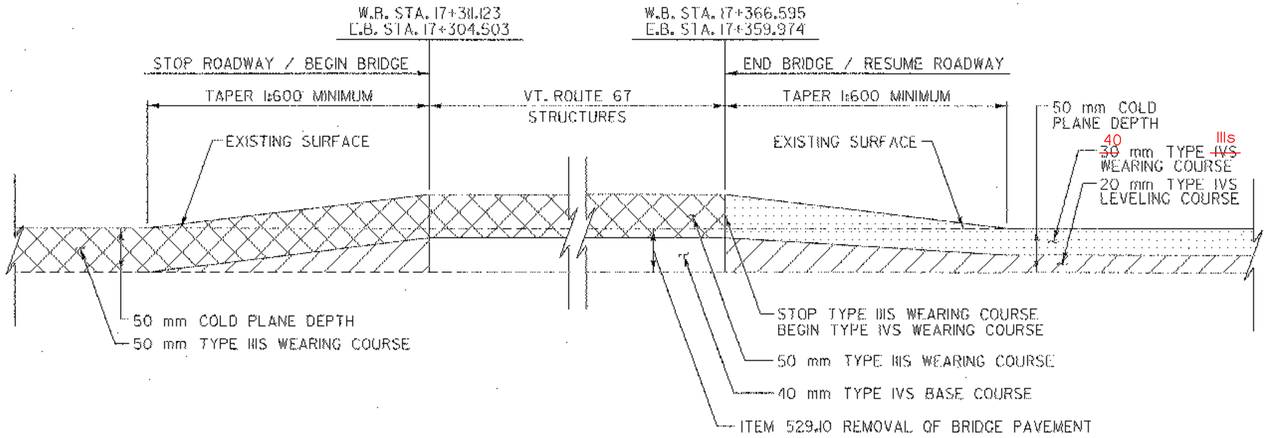


PLAN

SUBSTITUTED TREATED TIMBER CURB

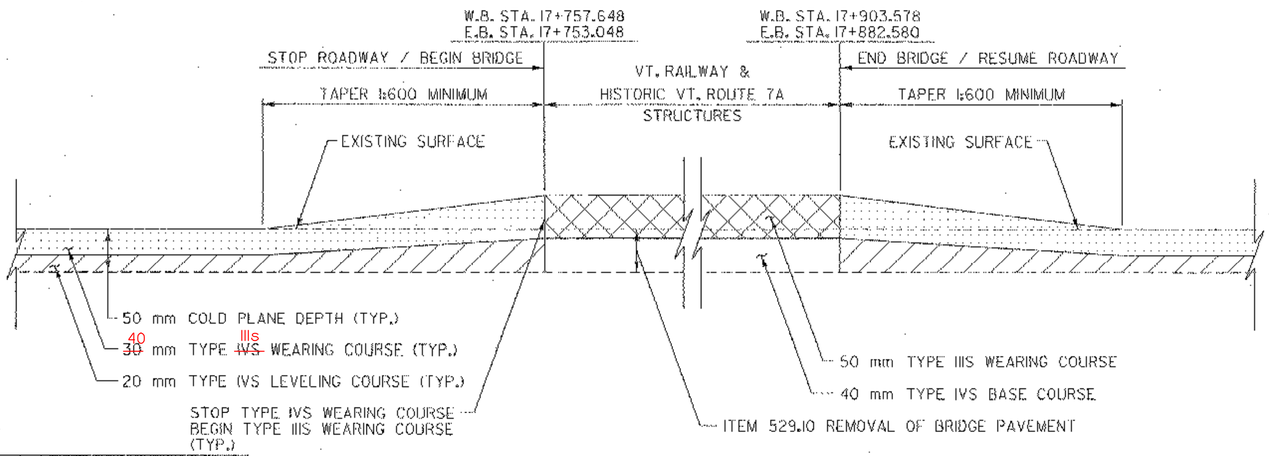


ELEVATION



BRIDGE APPROACH TRANSITION DETAIL VT. ROUTE 67A

N.T.S.



BRIDGE APPROACH TRANSITION DETAIL VT. RAILWAY AND HISTORIC VT. ROUTE 7A

N.T.S.

NOTES:

1. SEE VAOT STANDARD SHEET C-1M AND THE BITUMINOUS CONCRETE CURB, TYPE B DETAIL ON THIS SHEET FOR DETAILS ON THE TWO TYPES OF CURBS.
2. SEE DWG.'S MD-1 & MD-2 FOR BRIDGE APPROACH CURB DETAILS.

TREATED TIMBER CONCRETE CURB TO ~~BITUMINOUS~~ CURB TRANSITION DETAIL

N.T.S.

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

PAVING DETAILS SHEET

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. PTD_01.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0(46(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. PDT-1 SHEET 4 OF 83

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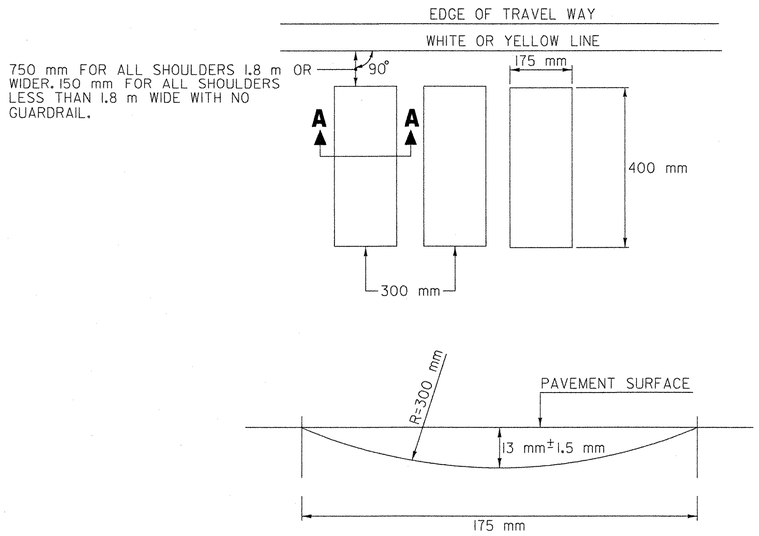
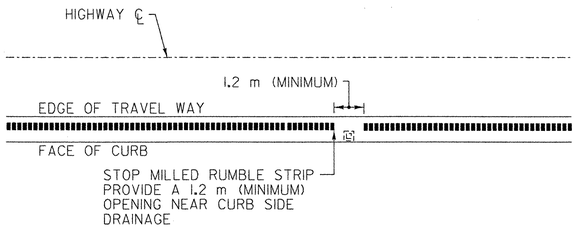


SECTION A–A

TYPICAL MILLING DETAIL



DRAINAGE DETAIL

MILLED RUMBLE STRIP DETAIL

N.T.S.

LEGEND

▪▪▪▪▪▪▪▪ MILLED RUMBLE STRIPS

NOTE:

1. MILLED RUMBLE STRIPS WILL NOT BE REQUIRED IN GUARDRAIL AREAS ADJACENT TO THE 1.2 m SHOULDER.

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

PAVING DETAILS SHEET

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. PTD_02.dgn

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. PDT-2 SHEET 5 OF 83

FILE NAME =u:\5116\vaot\contract6\ptd_02.dgn
DATE/TIME = 2/16/2004
USER =2225

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

VAOT Metric

SUMMARY OF ESTIMATED QUANTITIES

						EMPLOYEE TRAINEESHIP	EROSION CONTROL	BRIDGE'S 800	BRIDGE'S 1100	BRIDGE'S 1200	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
						-	250	-	-	-	-	250	m^3	EARTH BORROW	203.30	EST.
						-	-	-	-	-	1	1	m^3	TRENCH EXCAVATION OF EARTH (NOT A BID ITEM)	204.20	-
						-	-	-	-	-	17400	17400	m^2	COLD PLANING - BITUMINOUS PAVEMENT	210.10	66
						-	-	-	-	-	10200	10200	m	MILLED RUMBLE STRIPS	213.10	60.9
						-	-	-	-	-	390	390	†	AGGREGATE SHOULDERS (MOD.)	402.12	5
						-	-	-	-	-	3850	3850	kg	EMULSIFIED ASPHALT	404.65	23
						-	-	-	-	-	1	1	LU	PRICE ADJUSTMENT ASPHALT CEMENT (NOT A BID ITEM)	406.50	-
						-	-	389	421	378	2112	3300	†	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28)	490.30	30
						-	-	44	58	54	-	156	m^3	CONCRETE, HIGH PERFORMANCE CLASS AA	501.32	-
						-	-	-	1	-	-	1	LS	SHORING SUPERSTRUCTURE (BR 1100)	502.10	-
						-	-	-	-	1	-	1	LS	SHORING SUPERSTRUCTURE (BR 1200)	502.10	-
						-	-	13	-	-	-	13	EA	SHORING SUPERSTRUCTURE BEARINGS	502.11	-
						-	-	3727	5054	4500	-	13281	kg	REINFORCING STEEL	507.15	-
						-	-	-	92	150	-	242	m	DRILLING AND GROUTING DOWELS	507.16	-
						-	-	1	-	-	-	1	LS	STRUCTURAL PAINTING, FIELD APPLIED (BR 800) (320 †)	513.30	-
						-	-	-	1	-	-	1	LS	STRUCTURAL PAINTING, FIELD APPLIED (BR 1100) (82 †)	513.30	-
						-	-	-	-	1	-	1	LS	STRUCTURAL PAINTING, FIELD APPLIED (BR 1200) (151 †)	513.30	-
						-	-	1	-	-	-	1	LS	CONTAINMENT AND ENVIRONMENTAL PROTECTION, FIELD (BR 800)	513.36	-
						-	-	-	1	-	-	1	LS	CONTAINMENT AND ENVIRONMENTAL PROTECTION, FIELD (BR 1100)	513.36	-
						-	-	-	-	1	-	1	LS	CONTAINMENT AND ENVIRONMENTAL PROTECTION, FIELD (BR 1200)	513.36	-
						-	-	1	-	-	-	1	LS	SURFACE PREPARATION, FIELD (BR 800)	513.41	-
						-	-	-	1	-	-	1	LS	SURFACE PREPARATION, FIELD (BR 1100)	513.41	-
						-	-	-	-	1	-	1	LS	SURFACE PREPARATION, FIELD (BR 1200)	513.41	-
						-	-	122	150	130	-	402	L	WATER REPELLENT	514.10	-
						-	-	58	28	26	-	112	m	BRIDGE EXPANSION JOINT (ASPHALTIC PLUG TYPE)	516.10	-
						-	-	-	30	28	-	58	m	BRIDGE EXPANSION JOINT (VERMONT TYPE) (MOD.)	516.10	-
						-	-	1801	1523	1749	-	5073	m^2	SHEET MEMBRANE WATERPROOFING (TORCH APPLIED) (MOD.)	519.20	-
						-	-	66	80	70	-	216	m	JOINT SEALER, POLYURETHANE	524.21	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING - BITUMINOUS PAVEMENT
6623	m^2	VT. ROUTE 279 WESTBOUND (INCLUDING APPROACH)
7247	m^2	VT. ROUTE 279 EASTBOUND (INCLUDING APPROACH)
2959	m^2	RAMP E
505	m^2	RAMP F
66	m^2	ROUNDING
17400	m^2	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28) TYPE IIIS
157	†	VT. ROUTE 279 WESTBOUND APPROACH
178	†	VT. ROUTE 279 EASTBOUND APPROACH
218	†	BR 800
236	†	BR 1100
212	†	BR 1200
1001	†	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28) TYPE IVS
639	†	VT. ROUTE 279 WESTBOUND
693	†	VT. ROUTE 279 EASTBOUND
355	†	RAMP E
60	†	RAMP F
171	†	BR 800
185	†	BR 1100
166	†	BR 1200
2269	†	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28) SUMMARY
1001	†	TYPE IIIS
2269	†	TYPE IVS
30	†	ROUNDING
3300	†	TOTAL

PROJECT: BENNINGTON - HOOSICK	PROJECT NO.: D.P.I. 0146(1) C/6
DESIGN FILE NAME: QUAN.DGN	
IPARM FILE NAME: N/A	PLOT DATE: 2/04
SURVEYED BY: N/A	SURVEY DATE: N/A
SQUAD LEADER: T.P.K.	DRAWN BY: E.C.D.
DWG. NO. 0-1	SHEET: 6 OF 83

FILE NAME =u:\5116\VAOT\CONTRACT6\quan.dgn
DATE/TIME =2/16/2004
USER =2225

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

VAOT Metric

SUMMARY OF ESTIMATED QUANTITIES

						EMPLOYEE TRAINEESHIP	EROSION CONTROL	BRIDGE'S 800	BRIDGE'S 1100	BRIDGE'S 1200	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
						-	-	248	307	268	-	823	m	REMOVAL OF EXISTING RAIL	525.10	-
						-	-	248	307	268	-	823	m	BRIDGE RAILING - NETC - 2 RAIL	525.33	-
						-	-	1801	1949	1749	-	5499	m^2	REMOVAL OF BRIDGE PAVEMENT	529.10	-
						-	-	-	2	2	-	4	EA	PARTIAL REMOVAL OF STRUCTURE	529.20	-
						-	-	44	54	48	-	146	m^3	REMOVAL OF CONCRETE OR MASONRY	529.25	-
						-	-	-	24	36	-	60	EA	BEARING DEVICE ASSEMBLY (STEEL LAMINATED ELASTOMERIC)	531.10	-
						-	-	30	24	30	-	84	m^2	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS I	580.10	-
						-	-	20	20	20	-	60	m^2	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS II	580.11	-
						-	-	20	20	20	-	60	m^3	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS III	580.12	-
						-	-	74	60	72	-	206	m^2	SURFACE PREPARATION FOR MEMBRANE	580.16	-
						-	-	2	2	2	-	6	m^3	RAPID SETTING CONCRETE REPAIR MATERIAL	580.17	-
						-	-	-	-	-	16	16	EA	CHANGE ELEVATION OF DI, CB, OR MH	604.40	-
						-	-	-	-	-	40	40	HR	ALL- PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
						-	-	-	-	-	30	30	HR	POWER BROOM RENTAL	608.30	EST.
						-	-	-	-	-	60	60	HR	TRUCK RENTAL	608.37	EST.
						-	8	-	-	-	-	8	m^3	STONE FILL, TYPE I	613.10	0.8
						-	-	-	-	2	-	2	m^2	SLOPE PAVING	613.20	3.5
						-	-	-	-	-	180	180	m	CAST - IN - PLACE CONCRETE CURB, TYPE B	616.28	3.2
						-	-	-	-	-	51	51	t	BITUMINOUS CONCRETE CURB, TYPE B	616.31	0.7
						-	-	-	-	-	7	7	EA	YIELDING MARKER POSTS	619.17	-
						-	-	100	-	64	-	164	m	SNOW BARRIER (GALVANIZED)	620.75	-
						-	-	-	-	-	2056.6	2056.6	m	STEEL BEAM GUARDRAIL	621.20	-
						-	-	-	-	-	8	8	EA	MANUFACTURED TERMINAL SECTION (FLARED)	621.505	-
						-	-	-	-	-	6	6	EA	TRAILING END TERMINAL	621.52	-
						-	-	-	-	-	16	16	EA	GUARDRAIL APPROACH SECTION, NETC 2 RAIL (MOD.)	621.72	-
						-	-	-	-	-	1927.6	1927.6	m	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-
						-	-	-	-	-	150	150	m	TEMPORARY TRAFFIC BARRIER	621.90	EST.

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT:	PROJECT NO.:
BENNINGTON - HOOSICK	D.P.I. 0146(1) C/6
DESIGN FILE NAME: QUAN.DGN	
IPARM FILE NAME: N/A	PLOT DATE: 2/04
SURVEYED BY: N/A	SURVEY DATE: N/A
SQUAD LEADER: T.P.K.	DRAWN BY: E.C.D.
DWG. NO. Q-2	SHEET: 7 OF 83

FILE NAME =u:\5116\VAOT\CONTRACT6\quan.dgn
DATE/TIME =2/16/2004
USER =2225

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

VAOT Metric

SUMMARY OF ESTIMATED QUANTITIES

						EMPLOYEE TRAINEESHIP	EROSION CONTROL	BRIDGE'S 800	BRIDGE'S 1100	BRIDGE'S 1200	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
						-	-	-	-	-	1300	1300	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
						-	-	-	-	-	3900	3900	HR	FLAGGERS	630.15	EST.
						-	-	-	-	-	100	100	HR	FLAGGERS (MOD. - RAILROAD)	630.15	EST.
						1040	-	-	-	-	-	1040	HR	EMPLOYEE TRAINEESHIP	634.10	-
						-	-	.30	.20	.25	.25	1	LS	MOBILIZATION	635.10	-
						-	-	.30	.20	.25	.25	1	LS	TRAFFIC CONTROL	641.10	-
						-	-	.30	.20	.25	.25	1	LS	TRAFFIC CONTROL (MOD.)	641.10	-
						-	-	-	-	-	5	5	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-
						-	-	-	-	-	2	2	EA	PORTABLE ARROW BOARDS	641.16	-
						-	-	-	-	-	2390	2390	m	DURABLE 150 mm WHITE LINE	646.414	7.0
						-	-	-	-	-	2020	2020	m	DURABLE 150 mm YELLOW LINE	646.415	5
						-	-	-	-	-	860	860	m	DURABLE 300 mm WHITE LINE	646.44	3.9
						-	-	-	-	-	1270	1270	m	TEMPORARY 150 mm WHITE LINE (TYPE II TAPE)	646.614	6.7
						-	-	-	-	-	1170	1170	m	TEMPORARY 150 mm YELLOW LINE (TYPE II TAPE)	646.615	1.7
						-	-	-	-	-	71	71	m	TEMPORARY 300 mm WHITE LINE (TYPE II TAPE)	646.64	0.5
						-	-	-	-	-	500	500	EA	LINE STRIPING TARGETS	646.76	EST.
						-	40	-	-	-	-	40	m^2	GEOTEXTILE UNDER STONE FILL	649.31	4.0
						-	150	-	-	-	-	150	m^2	GEOTEXTILE FOR SILT FENCE	649.51	EST.
						-	25	-	-	-	-	25	kg	SEED	651.15	EST.
						-	100	-	-	-	-	100	kg	FERTILIZER	651.18	EST.
						-	1	-	-	-	-	1	t	AGRICULTURAL LIMESTONE	651.20	EST.
						-	1	-	-	-	-	1	t	HAY MULCH	651.25	EST.
						-	70	-	-	-	-	70	m^3	TOPSOIL	651.35	EST.
						-	1	-	-	-	-	1	LS	EROSION & SEDIMENT CONTROL PLAN	652.10	-
						-	140	-	-	-	-	140	HR	MONITORING EROSION & SEDIMENT CONTROL PLAN	652.20	EST.
						-	1	-	-	-	-	1	LU	FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN	652.30	-
						-	400	-	-	-	-	400	m^2	EROSION MATTING (MOD.)	654.10	EST.

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT:	PROJECT NO.:
BENNINGTON - HOOSICK	D.P.I. 0146(1) C/6
DESIGN FILE NAME: QUAN.DGN	
IPARM FILE NAME: N/A	PLOT DATE: 2/04
SURVEYED BY: N/A	SURVEY DATE: N/A
SQUAD LEADER: T.P.K.	DRAWN BY: E.C.D.
DWG. NO. 0-3	SHEET: 8 OF 83

FILE NAME =u:\5116\VAOT\CONTRACT6\quan.dgn
DATE/TIME =3/2/2004
USER =1459

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

VAOT Metric

SUMMARY OF ESTIMATED QUANTITIES

						EMPLOYEE TRAINEESHIP	EROSION CONTROL	BRIDGE'S 800	BRIDGE'S 1100	BRIDGE'S 1200	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
						-	-	-	-	-	16.74	16.74	m^2	TRAFFIC SIGNS, TYPE A	675.20	-
						-	-	-	-	-	81.54	81.54	m^2	TRAFFIC SIGNS, TYPE B	675.21	-
						-	-	-	-	-	1535	1535	kg	W - SHAPE STEEL SIGN POSTS	675.31	-
						-	-	-	-	-	31.5	31.5	kg	TUBULAR ALUMINUM SIGN POSTS	675.32	-
						-	-	-	-	-	126.5	126.5	m	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341	-
						-	-	-	-	-	2	2	EA	FOUNDATION FOR W - SHAPE STEEL POSTS, 600 mm DIAMETER	675.41	-
						-	-	-	-	-	3	3	EA	FOUNDATION FOR W - SHAPE STEEL POSTS, 750 mm DIAMETER	675.42	-
						-	-	-	-	-	22	22	EA	REMOVING SIGNS	675.50	-
						-	-	-	-	-	160	160	EA	DELINEATOR WITH STEEL POSTS	676.10	-
						-	-	-	-	-	1	1	EA	OVERHEAD TRAFFIC SIGN SUPPORT, CANTILEVER	677.12	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT: BENNINGTON - HOOSICK	PROJECT NO.: D.P.I. 0146(1) C/6
DESIGN FILE NAME: QUAN.DGN	
IPARM FILE NAME: N/A	PLOT DATE: 2/04
SURVEYED BY: N/A	SURVEY DATE: N/A
SQUAD LEADER: T.P.K.	DRAWN BY: E.C.D.
DWG. NO. Q-4	SHEET: 9 OF 83

FILE NAME =z:\5116\VAOT\CONTRACT6\quan.dgn
DATE/TIME = 2/16/2004
USER = 2225

ITEM DETAIL SUMMARY SHEET

VAOT Metric

LOCATION			MISCELLANEOUS				GUARDRAIL						REMARKS
STATION	STATION	POS.	613.10 STONE FILL, TYPE I m^3	616.28 CAST-IN-PLACE CONC. CURB, TYPE B m	616.31 BITUMINOUS CONC. CURB, TYPE B t	649.31 GEOTEXTILE UNDER STONE FILL m^2	621.20 STEEL BEAM G.R. m	621.505 MANUFACT. TERM. SECT. (FLARED) EA	621.52 TRAILING END TEMINAL EA	621.72 G.R. APPR. NETC 2 RAIL (MOD.) EA	621.75 REMOVE & RESET G.R. m	621.80 REMOVE & DISP. G.R. m	
VT. ROUTE 279													
WESTBOUND:													
17+366.9	17+751.6	LT		19.8	15.0		365.8			2		384.7	INSTALL NEW APPROACH SECTIONS, NETC 2 RAIL (MOD.) FROM STA. 17+366.9 TO STA. 17+375.9 AND FROM STA. 17+742.6 TO STA. 17+751.6. INSTALL BITUMINOUS CONCRETE CURB, TYPE B FROM STA. 17+376.8 TO STA. 17+741.7.
17+372.7	17+491.9	RT	0.9	12.2		4.5	110.2	1		1		59.9	INSTALL NEW APPROACH SECTION NETC 2 RAIL (MOD.) FROM STA. 17+372.7 TO STA. 17+381.7. INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 17+491.1. CONSTRUCT STONE PAD AT STA. 17+386.1.
17+744.7	17+757.8	RT	0.9	12.2		4.5			1	1		34.0	INSTALL NEW TRAILING END TERMINAL AT STA. 17+748.8. INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. 17+748.8 TO STA. 17+757.8. CONSTRUCT STONE PAD AT STA. 17+745.0.
17+905.4	18+032.2	RT	0.9	12.2		4.5	117.8	1		1		58.0	INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. 17+905.4 TO STA. 17+914.4. INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 18+032.2. CONSTRUCT STONE PAD AT STA. 17+918.2.
17+906.9	17+941.6	LT		9.9	1.0		25.7			1		34.7	INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. 17+906.9 TO STA. 17+915.9. INSTALL BITUMINOUS CONCRETE CURB, TYPE B FROM STA. 17+916.8 TO STA. 17+941.6.
VT. ROUTE 279													
EASTBOUND:													
17+360.8	17+373.9	LT	0.9	12.2		4.5			1	1		31.5	INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. 17+360.8 TO STA. 17+369.8. INSTALL NEW TRAILING END TERMINAL AT STA. 17+369.8. CONSTRUCT STONE PAD AT STA. 17+374.2.
17+367.1	17+753.5	RT		19.8	15.0		368.4			2		386.4	INSTALL NEW APPROACH SECTIONS, NETC 2 RAIL (MOD.) FROM STA. 17+367.1 TO STA. 17+376.1 AND FROM STA. 17+744.5 TO STA. 17+753.5. INSTALL BITUMINOUS CONCRETE CURB, TYPE B FROM STA. 17+377.0 TO STA. 17+743.6.
17+631.8	17+747.2	LT	0.9	12.2		4.5	106.4	1		1		63.5	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 17+631.8. INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. 17+738.2 TO STA. 17+747.2. CONSTRUCT STONE PAD AT STA. 17+734.4.
17+886.6	17+899.7	LT	0.9	12.2		4.5			1	1		24.6	INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. 17+886.6 TO STA. 17+895.6. INSTALL NEW TRAILING END TERMINAL AT STA. 17+895.6. CONSTRUCT STONE PAD AT STA. 17+899.4.
17+885.1	17+911.2	RT		9.9	0.7		17.1			1		26.1	INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. 17+885.1 TO STA. 17+894.1. INSTALL BITUMINOUS CONCRETE CURB, TYPE B FROM STA. 17+895.0 TO STA. 17+911.2.
RAMPS:													
B10+059.5	B10+155.9	LT	0.9	12.2		4.5	87.4	1		1		31.1	INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. B10+059.5 TO STA. B10+068.5. INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. B10+155.9. CONSTRUCT STONE PAD AT STA. B10+072.3.
B10+065.1	B10+161.8	RT		9.9	3.1		83.6		1	1		54.3	INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. B10+065.1 TO STA. B10+074.1. INSTALL NEW TRAILING END TERMINAL AT STA. B10+157.7. INSTALL BITUMINOUS CONCRETE CURB, TYPE B FROM STA. B10+075.0 TO STA. B10+150.0.
D10+177.3	D10+243.3	RT		9.9	1.2		57.0	1		1		48.8	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. D10+177.3. INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. D10+234.3 TO D10+243.3. INSTALL BITUMINOUS CONCRETE CURB, TYPE B FROM STA. D10+203.4 TO STA. D10+233.4.
D10+228.3	D10+237.3	LT	0.9	12.2		4.5				1		9.0	INSTALL NEW APPROACH SECTION, NETC 2 RAIL (MOD.) FROM STA. D10+228.3 TO STA. D10+237.3. CONSTRUCT STONE PAD AT STA. D10+224.5.
X10+229.0	X10+331.6	LT					102.6	1				50.5	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. X10+229.0.
E2+113.3	E2+471.4	RT			12.9		358.1	1				362.4	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. E2+113.3. INSTALL BITUMINOUS CONCRETE CURB, TYPE B FROM STA. E2+156.2 TO STA. E2+471.4.
E2+160.0	E2+384.5	LT					220.4	1	1			233.0	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. E2+160.0. INSTALL NEW TRAILING END TERMINAL AT STA. E2+380.4.
F2+000.0	F2+040.2	RT			1.4		36.1		1			35.1	INSTALL NEW TRAILING END TERMINAL AT STA. F2+036.1. INSTALL BITUMINOUS CONCRETE CURB, TYPE B FROM STA. F2+000.0 TO STA. F2+033.8.
SHEET SUBTOTAL			7.2	176.8	50.3	36.0	2056.6	8	6	16		1927.6	
ROUNDING			0.8	3.2	0.7	4.0	-	-	-	-		-	
TOTAL			8.0	180	51	40.0	2056.6	8	6	16		1927.6	

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

ITEM DETAIL SHEET 1

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. DSS.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. DS-1 SHEET 10 OF 83

FILE NAME =u:\5116\vaot\contract6\dss.dgn
DATE/TIME =2/16/2004
USER =2225

ITEM DETAIL SUMMARY SHEET

Metric

LOCATION			MISCELLANEOUS			REMARKS
			213.10	619.17	676.10	
STATION	STATION	POSITION	MILLED RUMBLE STRIPS	YIELDING MARKER POSTS	DELINEATORS W/STEEL POSTS	
			m	EA	EA	
VT. ROUTE 279						
D.P.I. 0146(1) C/3 SECTION:						
12+130.5	12+210.0	RT	79.5			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
12+130.5	12+230.0	LT	99.5			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
12+210.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
12+291.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
12+371.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
12+430.0	12+470.0	RT	40.0			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
12+450.0	14+113.2	LT	1663.2			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
12+452.3		LT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
12+532.7		LT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
12+613.2		LT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
12+693.7		LT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
12+740.0	13+540.0	RT	800.0			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
12+774.2		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
12+854.6		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
12+935.1		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
13+015.6		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
13+096.1		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
13+176.4		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
13+256.9		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
13+337.4		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
13+417.9		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
13+498.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
13+578.8		LT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
13+659.3		LT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
13+739.8		LT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
13+820.0	14+113.2	RT	293.2			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
13+820.2		LT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
13+900.7		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
13+981.2		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+061.7		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+142.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
SHEET SUBTOTAL			2975.4	-	42	

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

ITEM DETAIL SHEET 2

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. DSS.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. DS-2 SHEET 11 OF 83

FILE NAME = u:\5116\vsot\contract6\dss.dgn
DATE/TIME = 2/16/2004
USER = 2225

ITEM DETAIL SUMMARY SHEET

VAOT Metric

LOCATION			MISCELLANEOUS			REMARKS
			213.10	619.17	676.10	
STATION	STATION	POSITION	MILLED RUMBLE STRIPS	YIELDING MARKER POSTS	DELINEATORS W/STEEL POSTS	
			m	EA	EA	
VT. ROUTE 279						
D.P.I. 0146(1) C/3 SECTION CONT.:						
14+195.5	14+842.0	LT	646.5			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
14+195.5	14+841.8	RT	646.3			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
14+222.5		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+303.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+383.5		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+463.9		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+544.4		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+624.9		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+705.4		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+785.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+866.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
14+925.0	15+146.0	LT	221.0			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
14+925.2	15+143.5	RT	218.3			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
14+946.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+027.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+152.6		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+202.2	16+751.4	RT	1549.2			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
15+204.5	16+740.5	LT	1536.0			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
15+233.1		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+313.6		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+394.1		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+429.4		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+509.9		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+590.4		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+670.9		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+751.4		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+831.9		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+912.4		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
15+992.9		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
16+073.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
16+153.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
SHEET SUBTOTAL			4817.3	-	50	

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

ITEM DETAIL SHEET 3

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. DSS.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. DS-3 SHEET 12 OF 83

FILE NAME = u:\5116\vaot\contract6\dss.dgn
DATE/TIME = 2/16/2004
USER = 2225

ITEM DETAIL SUMMARY SHEET

Metric

LOCATION			MISCELLANEOUS			REMARKS
			213.10	619.17	676.10	
STATION	STATION	POSITION	MILLED RUMBLE STRIPS	YIELDING MARKER POSTS	DELINEATORS W/STEEL POSTS	
			m	EA	EA	
VT. ROUTE 279						
D.P.I. 0146(1) C/3 SECTION CONT.:						
16+234.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
16+314.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATORS.
16+395.3		RT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
16+475.8		RT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
16+556.3		RT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
16+636.6		RT			1	INSTALL NEW WHITE TYPE I DELINEATOR.
D.P.I. 0146(1) C/6 SECTION						
VT. ROUTE 279						
WESTBOUND						
17+377.8	17+740.7	LT	362.9			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
17+383.6	17+580.9	RT	197.3			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
17+392.6		RT		1		INSTALL NEW MARKER POST NEAR EXISTING DI.
17+441.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON LT AND INSTALL NEW AMBER TYPE I DELINEATOR ON RT.
17+493.9		RT				INSTALL NEW MARKER POST NEAR EXISTING DI.
17+521.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON LT AND INSTALL NEW AMBER TYPE I DELINEATOR ON RT.
17+602.3		LT & RT		1	2	INSTALL NEW WHITE TYPE I DELINEATOR ON LT AND INSTALL NEW AMBER TYPE I DELINEATOR ON RT.
17+617.9		RT		1		INSTALL NEW MARKER POST NEAR EXISTING DI.
17+633.8	17+746.9	RT	113.1			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
17+682.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON LT AND INSTALL NEW AMBER TYPE I DELINEATOR ON RT.
17+746.2		RT		1		INSTALL NEW MARKER POST NEAR EXISTING DI.
17+763.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON LT AND INSTALL NEW AMBER TYPE I DELINEATOR ON RT.
17+900.0		LT			1	INSTALL NEW WHITE TYPE II DELINEATOR ON LT.
17+912.3		RT		1		INSTALL NEW MARKER POST NEAR EXISTING DI.
17+916.3	18+000.0	RT	83.7			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
17+930.0		LT & RT			2	INSTALL NEW WHITE TYPE II DELINEATOR ON LT AND INSTALL NEW AMBER TYPE I DELINEATOR ON RT..
17+980.0	18+000.0	LT	20			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
SHEET SUBTOTAL			777.0	5	21	

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

ITEM DETAIL SHEET 4

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. DSS.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. DS-4 SHEET 13 OF 83

FILE NAME =u:\5116\vaot\contract6\dss.dgn
DATE/TIME = 2/16/2004
USER = 2225

ITEM DETAIL SUMMARY SHEET

VAOT Metric

LOCATION			MISCELLANEOUS			REMARKS
STATION	STATION	POSITION	213.10 MILLED RUMBLE STRIPS m	619.17 YIELDING MARKER POSTS EA	676.10 DELINEATORS W/STEEL POSTS EA	
D.P.I. 0146(1) C/3 SECTION CONT.						
VT. ROUTE 279						
EASTBOUND:						
17+371.7	17+563.1	LT	191.4			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
17+378.0	17+742.6	RT	364.6			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
17+441.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
17+521.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
17+602.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
17+616.1	17+736.3	LT	120.2			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
17+682.3		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
17+763.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
17+843.8		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
17+860.0		RT				INSTALL NEW WHITE TYPE II DELINEATOR ON RT.
17+890.0		RT				INSTALL NEW WHITE TYPE II DELINEATOR ON RT.
17+897.5	18+000.0	LT	102.5			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
17+924.3		LT			1	INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
17+990.0	18+000.0	RT	10.0			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
RAMPS:						
Y10+054.0	Y10+189.0	LT	135.0			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
Y10+140.0	B10+070.4	RT	181.6			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
X10+067.0	X10+250.0	RT	183.0			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
X10+160.0	X10+329.7	LT	169.7			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
B10+076.0	B10+145.0	RT	69.0			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
B10+074.1		LT		1		INSTALL NEW MARKER POST NEAR EXISTING DI.
B10+139.2		LT		1		INSTALL NEW MARKER POST NEAR EXISTING DI.
D10+190.0	D10+232.4	RT	42.4			SEE DWG. PDT-2 FOR MILLED RUMBLE STRIP DETAILS.
E2+077.0		RT			1	INSTALL NEW WHITE TYPE I DELINEATOR ON RT.
E2+107.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+137.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+167.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+197.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+227.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
SHEET SUBTOTAL			1569.4	2	24	

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

ITEM DETAIL SHEET 5

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. DSS.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. DS-5 SHEET 14 OF 83

FILE NAME = u:\5116\vaot\contract6\dss.dgn
DATE/TIME = 2/16/2004
USER = 2225

ITEM DETAIL SUMMARY SHEET

VAOT Metric

LOCATION			MISCELLANEOUS			REMARKS
STATION	STATION	POSITION	213.10 MILLED RUMBLE STRIPS m	619.17 YIELDING MARKER POSTS EA	676.10 DELINEATORS W/STEEL POSTS EA	
D.P.I. 0146(1) C/3 SECTION CONT.						
VT. ROUTE 279						
RAMPS:						
E2+257.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+277.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+297.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+317.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+337.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+357.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+377.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+397.0		LT & RT			2	INSTALL NEW WHITE TYPE I DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+417.0		LT & RT			2	INSTALL NEW WHITE TYPE II DELINEATOR ON RT AND INSTALL NEW AMBER TYPE I DELINEATOR ON LT.
E2+453.0		RT			1	INSTALL NEW WHITE TYPE II DELINEATOR ON RT.
F2+008.8		RT			1	INSTALL NEW WHITE TYPE II DELINEATOR ON RT.
F2+038.8		RT			1	INSTALL NEW WHITE TYPE II DELINEATOR ON RT.
F2+068.8		RT			1	INSTALL NEW WHITE TYPE II DELINEATOR ON RT.
F2+091.8		RT			1	INSTALL NEW WHITE TYPE I DELINEATOR ON RT.
SHEET SUBTOTAL			-	-	23	
DWG. NO. DS-2 SUBTOTAL			2975.4	-	42	
DWG. NO. DS-3 SUBTOTAL			4817.3	-	50	
DWG. NO. DS-4 SUBTOTAL			777.0	5	21	
DWG. NO. DS-5 SUBTOTAL			1569.4	2	24	
ROUNDING			60.9	-	-	
TOTAL			10200	7	160	

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

FILE NAME =u:\5116\vaot\contract6\dss.dgn
DATE/TIME =2/16/2004
USER =2225

ITEM DETAIL SHEET 6

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. DSS.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. DS-6 SHEET 15 OF 83

HORIZONTAL CONTROL TABLE

HCL POINT	COORDINATES NORTH	COORDINATES EAST	HCL STATION	DESCRIPTION
VT. ROUTE 279				
BEGIN VT. ROUTE 279	43892.063	436593.036	12+130.455	BEGIN VT. ROUTE 279 STA. 45+154.659 BK. (NEW YORK) = STA. 12+130.455 AHD. (VERMONT) D.P.I. 0146(1) C/3
P.C. CURVE W.B. 5	44369.434	437119.776	12+841.329	
P.I. CURVE W.B. 5	44605.105	437379.821	P.I. STA. 13+192.276 BK = P.I. STA. 13+187.719 AHD.	
P.T. CURVE W.B. 5	44760.069	437694.702	13+538.666	
P.C. CURVE W.B. 6	45151.109	438489.280	14+424.255	
P.I. CURVE W.B. 6	45348.540	438890.454	P.I. STA. 14+871.379 BK. = P.I. STA. 14+861.447 AHD.	
P.C.C. CURVE W.B. 6/ W.B. 7	45389.916	439335.659	15+308.571	
P.I. CURVE W.B. 7	45438.564	439859.121	P.I. STA. 15+834.288 BK. = P.I. STA. 15+826.701 AHD.	
P.T. CURVE W.B. 7	45333.413	440374.214	16+352.419	
END D.P.I. 0146(1) C/3 BEGIN D.P.I. 0146(1) C/4	45264.892	440709.875	16+695.000	END D.P.I. 0146(1) C/3 BEGIN D.P.I. 0146(1) C/4
P.C. CURVE W.B. 8	45255.051	440758.080	16+744.201	
P.I. CURVE W.B. 8	45214.430	440957.064	P.I. STA. 16+947.288 BK = P.I. STA. 16+944.475 AHD.	
P.T. CURVE W.B. 8 STOP VT. ROUTE 279	45232.025	441159.388	16+978.091	
VT. ROUTE 279 WESTBOUND				
END D.P.I. 0146(1) C/4 BEGIN VT. ROUTE 279 WESTBOUND D.P.I. 0146(1) C/6	45245.667	441316.261	17+305.027	END D.P.I. 0146(1) C/4 BEGIN VT. ROUTE 279 WESTBOUND D.P.I. 0146(1) C/6
P.I.	45281.617	441729.674	17+720.000	
END VT. ROUTE 279 WESTBOUND D.P.I. 0146(1) C/6	45312.772	442068.245	18+060.000	END VT. ROUTE 279 WESTBOUND D.P.I. 0146(1) C/6
VT. ROUTE 279 EASTBOUND				
END D.P.I. 0146(1) C/4 BEGIN VT. ROUTE 279 EASTBOUND D.P.I. 0146(1) C/6	45219.754	441329.843	17+298.377	END D.P.I. 0146(1) C/4 BEGIN VT. ROUTE 279 EASTBOUND D.P.I. 0146(1) C/6
P.I.	45256.284	441749.880	17+720.000	
END VT. ROUTE 279 EASTBOUND D.P.I. 0146(1) C/6	45283.756	442070.915	18+042.207	END VT. ROUTE 279 EASTBOUND D.P.I. 0146(1) C/6
RAMPS				
RAMP X				
BEGIN RAMP X	45227.585	440990.079	X10+000.000	
P.C. CURVE X-1	45219.486	441226.076	X10+236.136	
P.I. CURVE X-1	45218.031	441268.470	P.I. STA. X10+278.556 BK. = P.I. STA. X10+278.451 AHD.	
P.T. CURVE X-1	45221.706	441310.730	X10+320.871	
END RAMP X	45222.592	441320.916	X10+331.096	
RAMP Y				
BEGIN RAMP Y	45227.585	440990.079	Y10+000.000	
P.C. CURVE Y-1	45225.316	441056.213	Y10+066.173	
P.I. CURVE Y-1	45223.653	441104.657	P.I. STA. Y10+114.646 BK. = P.I. STA. Y10+114.528 AHD.	
P.T. CURVE Y-1	45227.852	441152.949	Y10+163.001	
END RAMP Y	45232.525	441206.691	Y10+216.946	
RAMP B				
BEGIN RAMP B	45251.281	441380.817	B10+000.000	
P.C. CURVE B-1	45236.112	441206.379	B10+175.097	
P.I. CURVE B-1	45233.640	441177.961	P.I. STA. B10+203.623 BK. = P.I. STA. B10+201.819 AHD.	
P.C.C. CURVE B-1 / B-2	45247.990	441153.307	B10+230.345	
P.I. CURVE B-2	45276.597	441104.161	P.I. STA. B10+287.211 BK. = P.I. STA. B10+266.916 AHD.	
P.T. CURVE B-2 / END RAMP B	45329.109	441125.982	B10+323.782	

HORIZONTAL CONTROL TABLE CONT.

HCL POINT	COORDINATES NORTH	COORDINATES EAST	HCL STATION	DESCRIPTION
RAMP D				
BEGIN RAMP D / P.C. CURVE D-1	45100.344	441194.212	D10+000.000	
P.I. CURVE D-1	45151.799	441149.691	P.I. STA. D10+068.042 BK. = P.I. STA. D10+037.032 AHD.	
P.C.C. CURVE D-1 / D-2	45193.921	441203.128	D10+105.074	
P.I. CURVE D-2	45210.572	441224.251	P.I. STA. D10+131.970 BK. = P.I. STA. D10+130.450 AHD.	
P.T. CURVE D-2	45212.902	441251.046	D10+157.346	
END RAMP D	45225.091	441391.208	D10+298.036	
RAMP E				
BEGIN RAMP E P.C. CURVE E-1	45704.196	442127.652	E2+000.000	
P.I. CURVE E-1	45667.928	442126.761	P.I. STA. E2+036.279 BK. = P.I. STA. E2+036.106 AHD.	
P.T. CURVE E-1	45632.330	442119.760	E2+072.385	
P.C. CURVE E-2	45424.537	442078.894	E2+284.158	
P.I. CURVE E-2	45318.030	442057.947	P.I. STA. E2+392.705 BK. = P.I. STA. E2+362.870 AHD.	
P.T. CURVE E-2 END RAMP E	45306.127	441950.055	E2+471.417	
RAMP F				
BEGIN RAMP F	45267.720	441940.800	F2+000.000	
P.C. CURVE F-1	45269.809	441970.414	F2+029.688	
P.I.	45272.329	442006.130	P.I. STA. F2+065.493 BK. = P.I. STA. F2+064.810 AHD.	
P.T. CURVE F-1 END RAMP F	45262.871	442040.663	F2+100.615	

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

FILE NAME =u:\5116\vsot\contract6\vthvc-1.dgn
DATE/TIME =2/16/2004
USER =2225

HORIZONTAL CONTROL TABLE

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. VTHVC-1.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. HC-1 SHEET 16 OF 83

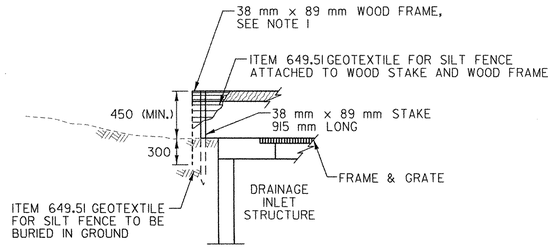
GENERAL NOTES FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THROUGHOUT THE DURATION OF THE CONTRACT IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL WATER COURSES FROM WATERBORNE SEDIMENT OR POLLUTANTS ORIGINATING FROM ANY WORK DONE ON OR IN SUPPORT OF THIS PROJECT.

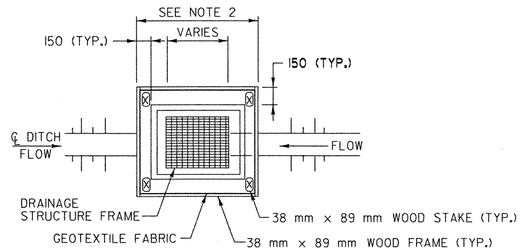
THE POLLUTION CONTROL NOTES AND DETAILS SHOWN IN THESE DRAWINGS ARE NOT INTENDED TO BE ALL INCLUSIVE BUT TO SERVE AS A GUIDELINE FOR THE DEVELOPMENT OF THE CONTRACTOR'S EROSION CONTROL SCHEME REQUIRED UNDER SECTION 105.22 THROUGH 105.30, OF THE STANDARD SPECIFICATIONS AND ALSO INCLUDING STANDARD SHEETS T-1M AND T-2M.

THE PURPOSE OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IS TO PROTECT ABUTTING PROPERTY, WATER COURSES, PONDS, DITCHES, ETC., FROM THE DETRIMENTAL EFFECTS OF SOIL EROSION AND/OR SEDIMENT ORIGINATING FROM WITHIN THE WORK LIMITS AND/OR FROM AREAS SPECIFICALLY DESIGNATED FOR CONTRACTUAL OPERATIONS BY THE STATE. TEMPORARY EROSION CONTROL WORK DONE BY THE CONTRACTOR IN ACCORDANCE WITH THE PRE-APPROVED SCHEME, OR AS DIRECTED BY THE RESIDENT ENGINEER, SHALL BE PAID FOR UNDER THE APPROPRIATE ITEM(S). TO PROTECT PRIVATE PROPERTY, WATER COURSES, PONDS, DITCHES, ETC., IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT HIS/HER OWN WORK AT NO ADDITIONAL COST TO THE STATE, IN ACCORDANCE WITH THE PROVISIONS OF SECTION 105.29 OF THE STANDARD SPECIFICATIONS.

1. INSPECTION OF SOIL EROSION AND POLLUTION CONTROL MEASURES, SHALL BE DONE ON A DAILY BASIS AND AFTER EVERY STORM OF 12 mm OR GREATER OR AS DIRECTED BY THE RESIDENT ENGINEER. REPAIRS SHALL BE MADE AS NEEDED AND SEDIMENT SHALL BE REMOVED WHEN THE STORAGE VOLUME OF AN EROSION CONTROL MEASURE IS APRROACHING ONE HALF OF ITS INTENDED CAPACITY OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. A TEMPORARY LINING MATERIAL MAY BE REQUIRED WHERE THE CONTRACTOR PROVIDES TEMPORARY CHANNELS TO KEEP CONTRACTOR'S WORK SITES FREE FROM WATER DURING CONSTRUCTION AS DIRECTED BY THE RESIDENT ENGINEER. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK; THE COST IS TO BE INCLUDED IN THE PRICE BID FOR THE OTHER ITEMS OF THE CONTRACT.
3. THE CONTRACTOR SHALL GRADE AND TRIM ALL SLOPES AS THE EXCAVATION PROGRESSES AND SEED ALL SLOPES AS DIRECTED BY THE RESIDENT ENGINEER, AND AS REQUIRED BY STANDARD T-1M.
4. THE CONTRACTOR SHALL HAVE A HYDROSEEDER AND/OR A MULCHING MACHINE AVAILABLE ON THE PROJECT SITE OR AVAILABLE AT ONE WEEK'S NOTICE (MAXIMUM) UNTIL THE PERMANENT SEEDING IS COMPLETED.
5. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO PREVENT ANY DAMAGE TO THE WATERS OF THE UNITED STATES FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR THE WATERS OF THE UNITED STATES. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO THE WATERS OF THE UNITED STATES ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH WOULD CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM THE WATERS OF THE UNITED STATES, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM TO PROTECT AND MAINTAIN STREAM WATER QUALITY.
6. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF THE UNITED STATES, NOR SHALL WASHING FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLANDS OR WATERS OF THE UNITED STATES.
7. THE SCHEME PROPOSED BY THE CONTRACTOR TO ACCOMPLISH EROSION AND POLLUTION CONTROL SHALL BE SUBJECT TO APPROVAL BY THE RESIDENT ENGINEER.
8. GRAVEL BAGS SHALL BE AS DESCRIBED IN SECTION 203 EXCEPT THAT ONLY GRAVEL FILL IS ACCEPTABLE. GRAVEL FILL SHALL BE FREE OF SILT AND GRAVEL BAGS WILL BE REMOVED IN THEIR ENTIRETY AT THE COMPLETION OF THE PROJECT.
9. SNOW FENCE (MOD.) SHALL BE ERECTED PRIOR TO ANY ACTIVITY THAT WILL ALTER THE SITE SUCH AS PLACING TRAILERS, STOCK PILES, STORAGE AREAS, DEMOLITION, OR CONSTRUCTION.
10. SILT FENCE MAY BE SUBSTITUTED WITH COMMERCIALLY AVAILABLE EROSION / SEDIMENT CONTROL DEVICES AS APPROVED IN WRITING BY THE RESIDENT ENGINEER. THE DEVICES SHALL OFFER EROSION / SEDIMENT CONTROL EQUAL TO OR BETTER THAN THE ITEMS THEY ARE SUBSTITUTING.



ELEVATION



PLAN

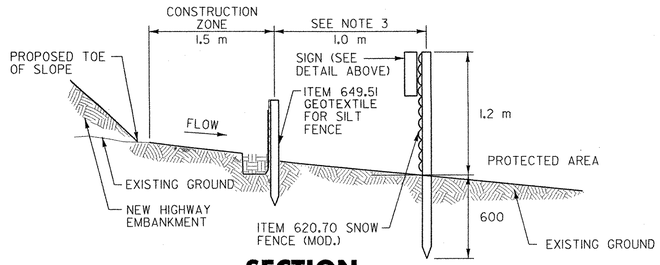
NOTES:

1. A 38 mm x 89 mm WOOD FRAME SHALL BE COMPLETED AROUND THE TOP OF THE STAKES OVER THE ATTACHED FABRIC FOR OVERFLOW STABILITY.
2. SPACE STAKES EVENLY AROUND INLET MAXIMUM OF 900 mm SPACING AND DRIVE A MINIMUM 450 mm DEEP. SPANS GREATER THAN 900 mm MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
3. CUT GEOTEXTILE FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY SHALL BE OVERLAPPED TO THE NEXT SPLICE.

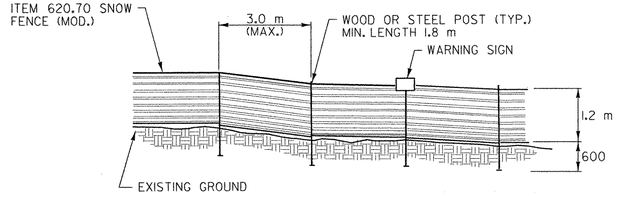
SILT FENCE FOR TEMPORARY SEDIMENT CONTROL AT DRAINAGE INLET STRUCTURES

STANDARD SYMBOL

WARNING SIGN DETAIL



SECTION



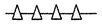
ELEVATION

NOTES:

1. WARNING SIGNS SHALL BE PLACED AT 30 m INTERVALS
2. ITEM 620.70 SNOW FENCE (MOD.) SHALL BE INSTALLED PRIOR TO BEGINNING ANY WORK AS DIRECTED BY THE RESIDENT ENGINEER.
3. IN AREAS ADJACENT TO OR WITHIN A WETLAND THE RESIDENT ENGINEER MAY REQUIRE ITEM 620.70 SNOW FENCE (MOD.) TO BE PLACED IN COMBINATION WITH THE SILT FENCE.
5. THE RESIDENT ENGINEER MAY EXTEND THE DISTANCE BETWEEN THE PROPOSED TOE OF SLOPE AND SILT FENCE PROVIDING IT DOES NOT TAKE PLACE IN A WET-LAND/WATERBODY AND DOES NOT REQUIRE THE REMOVAL OF EXISTING VEGETATION.
6. THE CONTRACTOR SHALL INSTALL AT THE BEGINNING OF THE CONTRACT, AND MAINTAIN THROUGHOUT ITS DURATION ITEM 620.70 SNOW FENCE (MOD.) AROUND THE EXISTING WETLAND AREAS/STREAM COURSE AREAS AS SHOWN. THE CONTRACTOR SHALL NOT DISTURB THE FENCED AREAS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 620.70 SNOW FENCE (MOD.)

SNOW FENCE (MOD.)

STANDARD SYMBOL



ALL DIMENSIONS IN MILLIMETERS EXCEPT WHERE OTHERWISE NOTED.

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

EROSION CONTROL DETAIL SHEET

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. DETPL05.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 01461) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. EC-1 SHEET 17 OF 83

FILE NAME =u:\5116\vaot\contract6\detpl05.dgn
DATE/TIME =2/16/2004
USER =2225

CURVE W.B. 5
P.C.= STA.12+841.329
P.T.= STA.13+538.666
Δ=15°58'54.5" RT
R= 2500.000 m
T= 350.947 m
L= 697.337 m
E= 24.513 m
emax=0.021 DN. RT

CURVE W.B. 6
P.C.= STA.14+424.255
P.C.C.= STA.15+308.571
Δ=20°53'37.8" RT
R= 2425.000 m
T= 447.124 m
L= 884.316 m
E= 40.876 m
emax=0.022 DN. RT

VT STATE PLANE GRID

VT. ROUTE 279 CONSTRUCTED BY OTHERS UNDER BENNINGTON - HOOSICK D.P.I. 0146(1) C/3

PROPOSED R.O.W. (W/O ACCESS) (TYP.)

P.I. STA. 13+192.276 BK.=
P.I. STA. 13+187.719 AHD.

P.T. STA.13+538.666

WOODLAND HEIGHTS REALTY CO

TOWN OF HOOSICK (RENSSELAER COUNTY)
TOWN OF BENNINGTON (BENNINGTON COUNTY)

STATE OF NEW YORK
STATE OF VERMONT

EQUALITY
STA. 45+54.659 BK. (NEW YORK) =
STA. 12+130.455 AHD. (VERMONT)

SPARKS, WILLIAM

TO HOOSICK, N.Y.

END BENNINGTON - HOOSICK D.P.I. 0146(1) C/2
BEGIN BENNINGTON - HOOSICK D.P.I. 0146(1) C/3
STA. 12+130.455

S.H. 98-2 - CONSTRUCTED BY OTHERS UNDER BENNINGTON - HOOSICK D.P.I. 0146(1) C/2 CONTRACT

STATE OF VERMONT
(FORMERLY WOODLAND HEIGHTS REALTY CO)

TEMPORARY WEIGH STATION

STA. 12+841.329 P.C.

WHIPSTOCK HILL ROAD

VAIL ROAD

AIRPORT ROAD

STA. 14+187.0, LT
BRIDGE 1 VT 279

CVPS & VELCO EASEMENT

GEANNELIS, MARY C.

AIRPORT BROOK WEST

AIRPORT BROOK WEST TRIBUTARY

STA. 14+424.255 P.C.

VT. ROUTE 279

STA. 14+920.0, LT
BRIDGE 2 VT 279

STA. 15+192.0, LT
BRIDGE 3 VT 279

WEINSTEIN, EDWARD & MARY ANNE

P.I. STA. 14+861.447 AHD.
P.I. STA. 14+871.348 BK.=

NAUGHTON, ELIZABETH, JOHN C., THOMAS

ROGERS, MARCIA M. & WILLIAM R. JR.

MATCH LINE STA. 15+200, DWG. G-2

NAUGHTON, ELIZABETH
NAUGHTON, JOHN C.
NAUGHTON, THOMAS

AIRPORT BROOK EAST

WOODWARD, DENNIS S. & NICOLE C.

AIRPORT BROOK WEST

STROHMAIER, WILLIAM A. & GENEVIEVE

NICHOLS, KEITH A. & LYNNE

DEBELL, JOHN H. & MARION M.

STA. 14+118.0, RT
BRIDGE 1 VT 279

STA. 14+851.0, RT
BRIDGE 2 VT 279

STA. 15+152.0, RT
BRIDGE 3 VT 279

12+000 12+200 12+400 12+600 12+800 13+000 13+200 13+400 13+600 13+800 14+000 14+200 14+400 14+600 14+800 15+000

NOTES:

1. SEE DWG'S. DS-2 THRU DS-6 AND PDT-2 FOR MILLED RUMBLE STRIP LOCATIONS AND DETAILS.
2. INSTALL ALL BRIDGE PLAQUES AS SHOWN OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. INSTALL DELINEATORS AS SHOWN ON DWG'S. DS-2 THRU DS-6 OR AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN LEGEND

R= REMOVE
S= SALVAGE
N= NEW
RET= RETAIN
B-B= BACK TO BACK
EXISTING= - - - - - - -
NEW= ———

80 0 80 m
1:4000
@ FULL SIZE

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

GENERAL PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. GI-DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. G-1 SHEET 18 OF 83

FILE NAME =u:\5116\vsat\contract6\gi.dgn
DATE/TIME =2/16/2004
USER =2225

CURVE W.B. 7	CURVE W.B. 8
P.C.C.= STA. 15+308.571	P.C.= STA. 16+744.201
P.T.= STA. 16+352.419	P.T.= STA. 16+978.091
Δ=16°50'50.4" RT	Δ=09°34'19.5" LT
R= 3550.000 m	R= 1400.000 m
T= 525.717 m	T= 117.218 m
L= 1043.848 m	L= 233.890 m
E= 38.715 m	E= 4.899 m
e_{max}=0.020 DN. RT	e_{max}=0.036 DN. LT

VT STATE PLANE GRID

VT. ROUTE 279 CONSTRUCTED BY OTHERS UNDER BENNINGTON - HOOSICK D.P.I. 0146(1) C/3

PROPOSED R.O.W. (W/O ACCESS) (TYP.)

VT. ROUTE 279 BENNINGTON - HOOSICK D.P.I. 0146(1) C/4 CONSTRUCTED BY OTHERS

BEGIN ROADWAY
END BENNINGTON-HOOSICK D.P.I. 0146(1) C/4
BEGIN BENNINGTON-HOOSICK D.P.I. 0146(1) C/6
BEGIN APPROACH SLAB
STA. B10+064.800 =
W.B. STA. 17+305.027

STA. Y10+024.0, LT
N BRIDGE 4 VT 279 N

END BENNINGTON-HOOSICK D.P.I. 0146(1) C/6
W.B. STA. 18+000.000

MILLER, THOMAS JR. & JANET

VT. ROUTE 67A

VERMONT RAILWAY

TED GLADSTONE DEVELOPMENT

HISTORIC VT. ROUTE 7A

MURPHY ROAD

AUSTIN HILL ROAD

MATCH LINE STA. 15+200. DWG. G-1

CVPS & VELCO EASEMENT

ARMSTRONG, R. KEITH

MAXON, RANDY G. & DONNA M.

BARD, DAVID T. & DORIS F.

P.I. STA. 15+834.288 BK. =
P.I. STA. 15+826.702 AHD.

MAYER, FOREST & EILEEN

STOP ROADWAY
STA. 16+695.000

P.T. STA. 16+352.419

VELCO

STATE OF VERMONT

P.C. STA. 16+744.201

SILK ROAD

WALLOOMSAC RIVER

BENNINGTON ACRES

JOHNSON CONTROLS, INC.

WILLIAM MORSE (TRUSTEE)

STA. 15+930.0 RT
N Bennington College NEXT RIGHT N N

P.C.C. STA. 15+308.571

BARD, DAVID T. & DORIS F.

ARMSTRONG, R. KEITH

VELCO

CENTRAL VERMONT PUBLIC SERVICE CORP.

CARTER, GERTRUDE C.

P.I. STA. 16+861.419 BK. =
P.I. STA. 16+860.873 AHD.

CONE, ALICE

WOLFE, WILLIAM

STATE OF VERMONT

STA. 16+767.0, RT
N BRIDGE 4 VT 279 N

END BENNINGTON - HOOSICK D.P.I. 0146(1) C/3
BEGIN BENNINGTON - HOOSICK D.P.I. 0146(1) C/4
STA. 16+695.000

BEGIN ROADWAY
END BENNINGTON-HOOSICK D.P.I. 0146(1) C/4
BEGIN BENNINGTON-HOOSICK D.P.I. 0146(1) C/6
BEGIN APPROACH SLAB
STA. D10+236.439 =
E.B. STA. 17+298.377

END BENNINGTON-HOOSICK D.P.I. 0146(1) C/6
E.B. STA. 18+000.000

CURVE B-1	CURVE D-1	CURVE E-1
P.C.=STA. B10+175.097	P.C.= STA. D10+000.000	P.C.= STA. E2+000.000
P.C.C.=STA. B10+230.345	P.C.C.=STA. D10+105.074	P.T.= STA. E2+072.385
Δ=35°10'19.8" RT	Δ=92°37'11.1" RT	Δ=09°43'09.0" RT
R= 90.000 m	R= 65.000 m	R= 426.720 m
T= 28.526 m	T= 68.042 m	T= 36.279 m
L= 55.248 m	L= 105.074 m	L= 72.385 m
E= 4.412 m	E= 29.100 m	E= 1.539 m
e_{max}=0.069 DN. RT	e_{max}=0.077 DN. RT	e_{max}=N/A

CURVE D-2	CURVE X-1	CURVE F-1	CURVE F-2	CURVE E-2
P.C.C.= STA. D10+105.074	P.C.= STA. X10+236.136	P.C.= STA. F2+029.688	P.C.C.= STA. F2+100.615	P.C.= STA. E2+284.158
P.T.= STA. D10+157.346	P.T.= STA. X10+320.871	P.T.= STA. F2+100.615	P.T.= STA. F2+247.745	P.T.= STA. E2+471.417
Δ=33°16'39.0" RT	Δ=06°56'08.5" LT	Δ=19°21'06.0" RT	Δ=29°47'15" RT	Δ=72°34'42.0" RT
R= 90.000 m	R= 700.000 m	R= 210.000 m	R= 283.000 m	R= 147.828 m
T= 26.896 m	T= 42.420 m	T= 35.805 m	T= 75.268 m	T= 108.547 m
L= 52.272 m	L= 84.735 m	L= 70.927 m	L= 147.129 m	L= 187.258 m
E= 3.933 m	E= 1.284 m	E= 3.030 m	E= 9.838 m	E= 35.572 m
e_{max}=0.069 DN. RT	e_{max}=0.063 DN. LT	e_{max}=N/A	e_{max}=N/A	e_{max}=N/A

NOTES:

1. SEE DWG'S. DS-2 THRU DS-6 AND PDT-2 FOR MILLED RUMBLE STRIP LOCATIONS AND DETAILS.
2. INSTALL ALL BRIDGE PLAQUES AS SHOWN OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. INSTALL DELINEATORS AS SHOWN ON DWG'S. DS-2 THRU DS-6 OR AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN LEGEND

R= REMOVE
S= SALVAGE
N= NEW
RET= RETAIN
B-B= BACK TO BACK
EXISTING= - - - - - - - -
NEW= ————————

80 0 80 m
1:4000 @ FULL SIZE

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

FILE NAME =u:\516\vaot\contract6\g2.dgn
DATE/TIME =2/17/2004
USER =2225

GENERAL PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. G2-DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. G-2 SHEET 19 OF 83

CURVE B-1	CURVE D-1
P.C.= STA. B10+175.097	P.C.= STA. D10+000.000
P.C.C.= STA. B10+230.345	P.C.C.= STA. D10+105.074
Δ= 35°10'19.8" RT	Δ= 92°37'11.1" RT
R= 90.000 m	R= 65.000 m
T= 28.526 m	T= 68.042 m
L= 55.248 m	L= 105.074 m
E= 4.412 m	E= 29.100 m
e max = 0.069 DN. RT	e max = 0.077 DN. RT

CURVE D-2	CURVE X-1
P.C.C.= STA. D10+105.074	P.C.= STA. X10+236.136
P.T.= STA. D10+157.346	P.T.= STA. X10+320.871
Δ= 33°16'39.0" RT	Δ= 06°56'08.5" LT
R= 90.000 m	R= 700.000 m
T= 26.896 m	T= 42.420 m
L= 52.272 m	L= 84.735 m
E= 3.933 m	E= 1.284 m
e max = 0.069 DN. RT	e max = 0.063 DN. LT

VT STATE PLANE GRID

LEGEND
- SILT FENCE
- SILT FENCE FOR DRAINAGE STRUCTURE PROTECTION
- EROSION MATTING, (SEE NOTE 5)

*SEE NOTE 4

END BRIDGE
RESUME ROADWAY
STA. B10+003.232 =
W.B. STA. 17+366.595

BEGIN RAMP B STA. B10+000.000 =
W.B. STA. 17+369.827

E.N. 44525
E.N. 45335
E.N. 44850
E.N. 45290
E.N. 45140

STOP ROADWAY
BEGIN BRIDGE
STA. B10+058.704 =
W.B. STA. 17+311.123

END APPROACH
BEGIN ROADWAY
BEGIN COLD PLANING & PAVING
END BENNINGTON-HOOSICK D.P.I. 01460 C/4
BEGIN BENNINGTON-HOOSICK D.P.I. 01460 C/6
BEGIN APPROACH SLAB
STA. B10+064.800 =
W.B. STA. 17+305.027

END APPROACH SLAB
W.B. STA. 17+372.691

W.B. STA. 17+379.1
600 mm x 600 mm
DROP INLET, 7.2 m LT

CONSTRUCT 1.2 m x 2.4 m x 300 mm DEEP PAD
STONE FILL, TYPE I (SEE NOTE 2)
W.B. STA. 17+386.1 RT

W.B. STA. 17+392.6
DROP INLET IN DITCH TO REMAIN

W.B. STA. 17+493.6
600 mm x 600 mm
DROP INLET, 7.2 m LT

W.B. STA. 17+493.9
DROP INLET IN
DITCH TO REMAIN

STA. B10+074.1, RT
DROP INLET TO REMAIN

CONSTRUCT
1.2 m x 2.4 m x 300 mm DEEP PAD
STONE FILL, TYPE I (SEE NOTE 2)
STA. B10+072.3

BEGIN APPROACH
STA. B10+175.097

STA. B10+139.2, RT
DROP INLET
TO REMAIN

STA. B10+139.2
DROP INLET IN
DITCH TO REMAIN

STA. B10+074.1
DROP INLET IN
DITCH, LT

APPROACH IS AN ADDITIONAL
AREA TO BE COLD PLANED
AND PAVED (SEE NOTE 1)

P.I. STA. D10+131.970 BK. =
P.I. STA. D10+130.450 AHD.

VT. ROUTE 67A

203 mm WATER LINE
152 mm SANITARY SEWER LINE

BEGIN RT SHOULDER TAPER
W.B. STA. 17+360.000

END RT SHOULDER TAPER
W.B. STA. 17+400.000

VT. ROUTE 279 (WESTBOUND)

S85°01'48.0"W

MILLED AREA

RAMP B
CURVE B-1
RAMP Y
RAMP X
CURVE D-2
CURVE D-1
RAMP D

P.C. STA. X10+236.136
P.T. X10+320.871
P.C.C. STA. D10+105.074
P.T. STA. D10+157.346

CURVE X-1 S68°02'03.5"E
N85°01'48.0"E
N5°45'09.0"E

STA. D10+216.8, RT
DROP INLET
TO REMAIN

P.I. STA. X10+278.556 BK. =
P.I. STA. X10+278.451 AHD.

BEGIN APPROACH
STA. X10+220.000

BEGIN APPROACH
STA. D10+140.000

EXISTING BITUMINOUS CONCRETE
GUTTER TO BE REMOVED
(SEE NOTE 3)

CONSTRUCT 1.2 m x 2.4 m x 300 mm DEEP PAD
STONE FILL, TYPE I (SEE NOTE 2)
STA. D10+224.5

STA. D10+243.441 =
E.B. STA. 17+304.503
STOP ROADWAY
BEGIN BRIDGE

END RAMP X
STA. X10+331.096 =
E.B. STA. 17+289.729

END APPROACH
BEGIN ROADWAY
BEGIN COLD PLANING & PAVING
END BENNINGTON-HOOSICK D.P.I. 01460 C/4
BEGIN BENNINGTON-HOOSICK D.P.I. 01460 C/6
BEGIN APPROACH SLAB
STA. D10+236.439 =
E.B. STA. 17+298.377

END BRIDGE
RESUME ROADWAY
END RAMP D
STA. D10+298.036 =
E.B. STA. 17+359.974

END APPROACH SLAB
E.B. STA. 17+366.002

E.B. STA. 17+374.0
300 mm x 600 mm
DROP INLET, 8.0 m RT

CONSTRUCT 1.2 m x 2.4 m x 300 mm DEEP PAD
STONE FILL, TYPE I (SEE NOTE 2)
E.B. STA. 17+374.2 LT

E.B. STA. 17+472.4
300 mm x 600 mm
DROP INLET, 8.3 m RT

END LT SHOULDER TAPER
E.B. STA. 17+400.000

BEGIN RT SHOULDER TAPER
E.B. STA. 17+365.000

BEGIN RT SHOULDER TAPER
E.B. STA. 17+500.000

VT. ROUTE 279 (EASTBOUND)

N85°01'48.0"E

MATCH LINE W.B. STA. 17+540.000 DWG. P-2

213.10 MILLED RUMBLE STRIPS

W.B. STA. 17+377.8	- W.B. STA. 17+540.0	LT	(162.2 m)
W.B. STA. 17+383.6	- W.B. STA. 17+540.0	RT	(156.4 m)
E.B. STA. 17+371.7	- E.B. STA. 17+522.1	LT	(150.4 m)
E.B. STA. 17+378.0	- E.B. STA. 17+522.1	RT	(144.1 m)
STA. X10+140.0	- STA. B10+070.4	RT	(181.6 m)
STA. X10+067.0	- STA. X10+250.0	RT	(183.0 m)
STA. X10+160.0	- STA. X10+329.0	LT	(169.7 m)
STA. B10+067.0	- STA. B10+145.0	RT	(69.0 m)
STA. D10+190.0	- STA. D10+232.4	RT	(42.4 m)

604.40 CHANGE ELEVATION OF DI, CB OR MH

W.B. STA. 17+379.1	LT	
W.B. STA. 17+493.6	LT	
E.B. STA. 17+374.0	RT	
E.B. STA. 17+472.4	RT	
STA. B10+074.1	LT	

606.28 CAST-IN-PLACE CONCRETE CURB, TYPE B

W.B. STA. 17+366.9	- W.B. STA. 17+376.8	LT	(9.9 m)
W.B. STA. 17+372.7	- W.B. STA. 17+384.9	RT	(12.2 m)
E.B. STA. 17+360.8	- E.B. STA. 17+373.0	LT	(12.2 m)
E.B. STA. 17+367.1	- E.B. STA. 17+377.0	RT	(9.9 m)
STA. B10+059.5	- STA. B10+071.7	LT	(12.2 m)
STA. B10+065.1	- STA. B10+075.0	RT	(9.9 m)
STA. D10+225.1	- STA. D10+237.3	LT	(12.2 m)
STA. D10+233.4	- STA. D10+243.3	RT	(9.9 m)

35 TREATED TIMBER CURB BOARD

616.31 BITUMINOUS CONCRETE CURB, TYPE B

W.B. STA. 17+376.8	- W.B. STA. 17+540.0	LT	(6.7 ±)
E.B. STA. 17+377.0	- E.B. STA. 17+522.1	RT	(5.9 ±)
STA. B10+075.0	- STA. B10+150.0	RT	(3.1 ±)
STA. D10+203.4	- STA. D10+233.4	RT	(1.2 ±)

621.20 STEEL BEAM GUARDRAIL

W.B. STA. 17+375.9	- W.B. STA. 17+540.0	LT	(164.1 m)
W.B. STA. 17+381.7	- W.B. STA. 17+491.9	RT	(110.2 m)
E.B. STA. 17+376.1	- E.B. STA. 17+522.1	RT	(146.0 m)
STA. B10+068.5	- STA. B10+155.9	LT	(87.4 m)
STA. B10+074.1	- STA. B10+157.7	RT	(83.6 m)
STA. D10+177.3	- STA. D10+234.3	RT	(57.0 m)
STA. X10+229.0	- STA. X10+331.6	LT	(102.6 m)

621.505 MANUFACTURED TERMINAL SECTION (FLARED)

W.B. STA. 17+491.9	RT	(EA)
STA. B10+155.9	LT	(EA)
STA. D10+177.3	RT	(EA)
STA. X10+229.0	LT	(EA)

621.52 TRAILING END TERMINAL

E.B. STA. 17+369.8	- E.B. STA. 17+373.9	LT
STA. B10+157.7	- STA. B10+161.8	RT

621.72 GUARDRAIL APPROACH SECTION, NETC 2 RAIL (MOD.)

W.B. STA. 17+366.9	- W.B. STA. 17+375.9	LT
W.B. STA. 17+372.7	- W.B. STA. 17+381.7	RT
E.B. STA. 17+360.8	- E.B. STA. 17+369.8	LT
E.B. STA. 17+367.1	- E.B. STA. 17+376.1	RT
STA. B10+059.5	- STA. B10+068.5	LT
STA. B10+065.1	- STA. B10+074.1	RT
STA. D10+228.3	- STA. D10+237.3	LT
STA. D10+234.3	- STA. D10+243.3	RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL

W.B. STA. 17+366.9	- W.B. STA. 17+540.0	LT	(173.1 m)
W.B. STA. 17+372.7	- W.B. STA. 17+432.6	RT	(59.9 m)
E.B. STA. 17+360.8	- E.B. STA. 17+392.3	LT	(31.5 m)
E.B. STA. 17+367.1	- E.B. STA. 17+522.1	RT	(155.0 m)
STA. B10+059.5	- STA. B10+090.6	LT	(31.1 m)
STA. B10+065.1	- STA. B10+119.4	RT	(54.3 m)
STA. X10+281.1	- STA. X10+331.6	LT	(50.5 m)
STA. D10+194.5	- STA. D10+243.3	RT	(48.8 m)
STA. D10+228.3	- STA. D10+237.3	LT	(9.0 m)

NOTES:

1. COLD PLANE EXISTING PAVEMENT 50 mm AND PAVE WITH ONE-50 mm LIFT OF SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE 115 (PG 58-28) OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. CONSTRUCT STONE PADS AT CURB ENDS AS DIRECTED BY THE RESIDENT ENGINEER. ANY EXCAVATION REQUIRED SHALL BE PAID FOR UNDER ITEM 608.25.
3. REMOVE EXISTING BITUMINOUS CONCRETE GUTTER BY EXCAVATING 450 mm OF BITUMINOUS PAVEMENT AND AGGREGATE MATERIAL AND REPLACE WITH EARTH BORROW, TOPSOIL AND SEED OR AS DIRECTED BY THE RESIDENT ENGINEER. ALL REQUIRED EXCAVATION SHALL BE PAID FOR UNDER THE APPROPRIATE EQUIPMENT RENTAL ITEMS OR AS DIRECTED BY THE RESIDENT ENGINEER.
4. ADDITIONAL CONTROLS AND PROTECTION OF THE ENVIRONMENT NOT SHOWN ON THE PLANS MAY BE WARRANTED DURING CONSTRUCTION AND SHALL BE INCORPORATED INTO THE PROJECT AS REQUIRED OR AS DIRECTED BY THE RESIDENT ENGINEER.
5. EMBANKMENT EROSION TO BE FILLED WITH EARTH BORROW, TOPSOIL AND SEED AND COVERED WITH EROSION MATTING OR AS DIRECTED BY THE RESIDENT ENGINEER.

DATUM

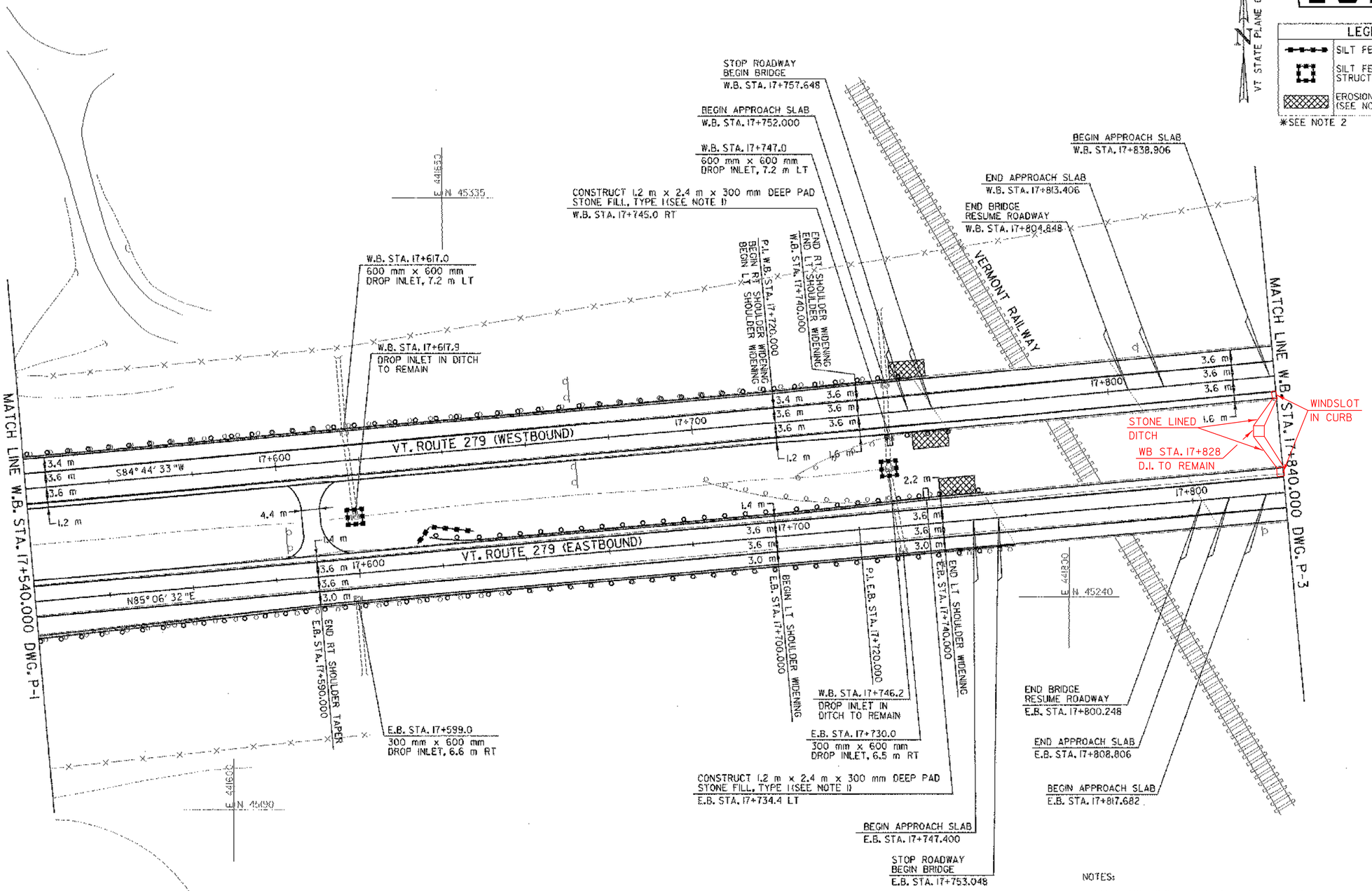
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

10 0 10 m
1: 500
@ FULL SIZE

PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04
DESIGN FILE NO.	PLAN01.DGN	
PROJ. NAME	BENNINGTON - HOOSICK D.P.I. 01460 C/6	
PROJ. NO.	P.I.N. 1306.60	
DWG NO.	P-1	SHEET 20 OF 83

FILE NAME = u:\s116\vaot\contracts\plan01.dgn
DATE/TIME = 2/18/2004
USER = 2225



213.10 MILLED RUMBLE STRIPS
W.B. STA. 17+540.0 - W.B. STA. 17+740.7 LT (200.7 m)
W.B. STA. 17+540.0 - W.B. STA. 17+580.9 RT (40.9 m)
W.B. STA. 17+633.8 - W.B. STA. 17+746.9 RT (113.1 m)
E.B. STA. 17+522.1 - E.B. STA. 17+563.1 LT (41.0 m)
E.B. STA. 17+522.1 - E.B. STA. 17+742.6 RT (220.5 m)
E.B. STA. 17+616.1 - E.B. STA. 17+736.3 LT (120.2 m)

604.40 CHANGE ELEVATION OF DI, CB OR MH
W.B. STA. 17+617.0 LT
W.B. STA. 17+747.0 LT
E.B. STA. 17+599.0 RT
E.B. STA. 17+730.0 RT

616.28 CAST-IN-PLACE CONCRETE CURB, TYPE B
W.B. STA. 17+741.7 - W.B. STA. 17+751.6 LT (9.9 m)
W.B. STA. 17+745.6 - W.B. STA. 17+757.8 RT (12.2 m)
E.B. STA. 17+735.0 - E.B. STA. 17+747.2 LT (12.2 m)
E.B. STA. 17+743.6 - E.B. STA. 17+753.5 RT (9.9 m)
35 TREATED TIMBER CURB BOARD

616.31 BITUMINOUS CONCRETE CURB, TYPE B
W.B. STA. 17+540.0 - W.B. STA. 17+741.7 LT (8.3 t)
E.B. STA. 17+522.1 - E.B. STA. 17+743.6 RT (9.1 t)

621.20 STEEL BEAM GUARDRAIL
W.B. STA. 17+540.0 - W.B. STA. 17+742.6 LT (202.6 m)
E.B. STA. 17+522.1 - E.B. STA. 17+744.5 RT (222.4 m)
E.B. STA. 17+631.8 - E.B. STA. 17+738.2 LT (106.4 m)

621.505 MANUFACTURED TERMINAL SECTION (FLARED)
E.B. STA. 17+631.8 LT (1EA)

621.52 TRAILING END TERMINAL
W.B. STA. 17+744.7 - W.B. STA. 17+748.8 RT

621.72 GUARDRAIL APPROACH SECTION, NETC 2 RAIL (MOD.)
W.B. STA. 17+742.6 - W.B. STA. 17+751.6 LT
W.B. STA. 17+748.8 - W.B. STA. 17+757.8 RT
E.B. STA. 17+736.2 - E.B. STA. 17+747.2 LT
E.B. STA. 17+744.5 - E.B. STA. 17+753.5 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
W.B. STA. 17+540.0 - W.B. STA. 17+751.6 LT (211.6 m)
W.B. STA. 17+723.8 - W.B. STA. 17+757.8 RT (34.0 m)
E.B. STA. 17+522.1 - E.B. STA. 17+753.5 RT (231.4 m)
E.B. STA. 17+683.7 - E.B. STA. 17+747.2 LT (63.5 m)

10 0 10 m
1: 500
@ FULL SIZE

NOTES:
1. CONSTRUCT STONE PADS AT CURB ENDS OR AS DIRECTED BY THE RESIDENT ENGINEER. ANY EXCAVATION REQUIRED SHALL BE PAID FOR UNDER ITEM 608.25.
2. ADDITIONAL CONTROLS AND PROTECTION OF THE ENVIRONMENT NOT SHOWN ON THE PLANS MAY BE WARRANTED DURING CONSTRUCTION AND SHALL BE INCORPORATED INTO THE PROJECT AS REQUIRED OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. EMBANKMENT EROSION TO BE FILLED WITH EARTH BORROW, TOPSOIL AND SEED AND COVERED WITH EROSION MATTING OR AS DIRECTED BY THE RESIDENT ENGINEER.

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

FILE NAME =u:\5116\vaet\contract6\plan02.dgn
DATE/TIME =2/18/2004
USER =2225

PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. PLAN02.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 01461(0) C/6
PROJ. NO. P.I.N. 1306.60
DWG NO. P-2 SHEET 21 OF 83

CURVE E-2

P.C.= STA. E2+284.158
P.T.= STA. E2+471.417
Δ= 72°34'42.0" RT
R= 147.828 m
T= 108.547 m
L= 187.258 m
E= 35.572 m
e_{max}=N/A

CURVE F-1

P.C.= STA. F2+029.688
P.T.= STA. F2+100.615
Δ= 19°21'06.0" RT
R= 210.000 m
T= 35.805 m
L= 70.927 m
E= 3.030 m
e_{max}=N/A

STOP ROADWAY
END COLD PLANING & PAVING
END BENNINGTON-HOOSICK D.P.I. 01460(1) C/6
END RT LANE WIDENING
END RT SHOULDER TAPER
W.B. STA. 18+000.000

END BRIDGE
RESUME ROADWAY
W.B. STA. 17+903.578

END APPROACH SLAB
W.B. STA. 17+909.342

W.B. STA. 17+912.5
600 mm x 600 mm
DROP INLET, 7.2 m LT

W.B. STA. 17+912.3
DROP INLET IN DITCH TO REMAIN
CONSTRUCT 1.2 m x 2.4 m x 300 mm DEEP PAD
STONE FILL, TYPE I (SEE NOTE 1)

W.B. STA. 17+918.2 RT

END RAMP E
STA. E2+471.417 =
W.B. STA. 17+941.584

STA. E2+415.0
600 mm x 600 mm
DROP INLET, 1.2 m RT

STA. E2+374.0
300 mm x 600 mm
DROP INLET, 1.2 m RT

STA. E2+439.0
DROP INLET
BEHIND CURB
ABANDONED
IN PLACE

NEW PRECAST D.I.

MATCH LINE STA. E2+320.000 DWG. P-4

MATCH LINE W.B. STA. 17+840.000 DWG. P-2

HISTORIC VT. ROUTE 7A

STOP ROADWAY
BEGIN BRIDGE
W.B. STA. 17+845.657

BEGIN LT LANE WIDENING
BEGIN LT SHOULDER TAPER
BEGIN RT LANE WIDENING
BEGIN RT SHOULDER TAPER
W.B. STA. 17+900.000

END LT LANE WIDENING
STA. E2+460.900

END LT SHOULDER TAPER
STA. E2+450.800

RAMP E
CURVE E-2

E 442 N 45340

S11°07'35"W

S83°42'16"W

1,710 m

P.I. STA. E2+392.705 BK. =
P.I. STA. E2+362.870 AHD.

P.I. STA. F2+065.493 BK. =
P.I. STA. F2+064.810 AHD.

VT. ROUTE 279 (WESTBOUND)

VT. ROUTE 279 (EASTBOUND)

S84°44'33"W

N85°06'32"E

S74°41'02"E

N85°57'52"E

CURVE F-1

P.C. STA. F2+029.688

END RT SHOULDER TAPER
E.B. STA. 17+960.000

END RAMP F
END COLD PLANING & PAVING
STA. F2+100.000

P.T. STA. F2+100.615

RAMP F
CURVE F-2

E 442 N 45240

STOP ROADWAY
BEGIN BRIDGE
E.B. STA. 17+824.659

BEGIN RT LANE WIDENING
BEGIN RT SHOULDER TAPER
E.B. STA. 17+860.000

BEGIN LT SHOULDER TAPER
BEGIN LT LANE WIDENING
E.B. STA. 17+900.000

END BRIDGE
RESUME ROADWAY
E.B. STA. 17+882.580

END APPROACH SLAB
E.B. STA. 17+888.344

CONSTRUCT 1.2 m x 2.4 m
x 300 mm DEEP PAD
STONE FILL, TYPE I (SEE NOTE 1)
E.B. STA. 17+899.4 LT

E.B. STA. 17+897.0
600 mm x 600 mm
DROP INLET, 4.8 m RT

END RT LANE WIDENING
BEGIN RAMP F
STA. F2+000.000 =
E.B. STA. 17+911.209

STOP ROADWAY
END COLD PLANING & PAVING
END BENNINGTON-HOOSICK D.P.I. 01460(1) C/6
END LT LANE WIDENING
END LT SHOULDER TAPER
E.B. STA. 18+000.000

ORCHARD ROAD

VT STATE PLANE GRID

LEGEND
- SILT FENCE
- SILT FENCE FOR DRAINAGE STRUCTURE PROTECTION
- EROSION MATTING, (SEE NOTE 3)

*SEE NOTE 2

213.10 MILLED RUMBLE STRIPS
W.B. STA. 17+916.3 - W.B. STA. 18+000.0 RT (83.7 m)
W.B. STA. 17+980.0 - W.B. STA. 18+000.0 LT (20.0 m)
E.B. STA. 17+897.5 - E.B. STA. 18+000.0 LT (102.5 m)
E.B. STA. 17+990.0 - E.B. STA. 18+000.0 RT (10.0 m)

604.40 CHANGE ELEVATION OF DI, CB OR MH
W.B. STA. 17+912.5 LT
E.B. STA. 17+897.0 RT
STA. E2+374.0 RT
STA. E2+415.0 RT
STA. E2+439.0 RT

616.28 CAST-IN-PLACE CONCRETE CURB, TYPE B
W.B. STA. 17+905.4 - W.B. STA. 17+917.6 RT (12.2 m)
W.B. STA. 17+906.9 - W.B. STA. 17+916.8 LT (9.9 m)
E.B. STA. 17+885.1 - E.B. STA. 17+895.0 RT (9.9 m)
E.B. STA. 17+886.6 - E.B. STA. 17+898.8 LT (12.2 m)

35 TREATED TIMBER CURB BOARD
616.31 BITUMINOUS CONCRETE CURB, TYPE B
W.B. STA. 17+916.8 - W.B. STA. 17+941.6 LT (1.0 †)
E.B. STA. 17+895.0 - E.B. STA. 17+911.2 RT (0.7 †)
STA. E2+320.0 - STA. E2+471.4 RT (6.2 †)
STA. F2+000.0 - STA. F2+033.8 RT (1.4 †)

621.20 STEEL BEAM GUARDRAIL
W.B. STA. 17+914.4 - W.B. STA. 18+032.2 RT (117.8 m)
W.B. STA. 17+915.9 - W.B. STA. 17+941.6 LT (25.7 m)
E.B. STA. 17+894.1 - E.B. STA. 17+911.2 RT (17.1 m)
STA. E2+320.0 - STA. E2+471.4 RT (151.4 m)
STA. E2+320.0 - STA. E2+380.4 LT (60.4 m)
STA. F2+000.0 - STA. F2+036.1 RT (36.1 m)

621.505 MANUFACTURED TERMINAL SECTION (FLARED)
W.B. STA. 18+032.2 RT (1 EA)

621.52 TRAILING END TERMINAL
E.B. STA. 17+895.6 - E.B. STA. 17+899.7 LT
STA. E2+380.4 - STA. E2+384.5 LT
STA. F2+036.1 - STA. F2+040.2 RT

621.72 GUARDRAIL APPROACH SECTION, NETC 2 RAIL (MOD.)
W.B. STA. 17+905.4 - W.B. STA. 17+914.4 RT
W.B. STA. 17+906.9 - W.B. STA. 17+915.9 LT
E.B. STA. 17+885.1 - E.B. STA. 17+894.1 RT
E.B. STA. 17+886.6 - E.B. STA. 17+895.6 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
W.B. STA. 17+905.4 - W.B. STA. 17+963.4 RT (58.0 m)
W.B. STA. 17+906.9 - W.B. STA. 17+941.6 LT (34.7 m)
E.B. STA. 17+885.1 - E.B. STA. 17+927.4 RT (26.1m)
E.B. STA. 17+886.6 - E.B. STA. 17+911.2 LT (24.6 m)
STA. E2+320.0 - STA. E2+471.4 RT (151.4 m)
STA. E2+320.0 - STA. E2+383.0 LT (63.0 m)
STA. F2+000.0 - STA. F2+035.1 RT (35.1 m)

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

10 0 10 m
1: 500
@ FULL SIZE

NOTES:
1. CONSTRUCT STONE PADS AT CURB ENDS OR AS DIRECTED BY THE RESIDENT ENGINEER. ANY EXCAVATION REQUIRED SHALL BE PAID FOR UNDER ITEM 608.25.
2. ADDITIONAL CONTROLS AND PROTECTION OF THE ENVIRONMENT NOT SHOWN ON THE PLANS MAY BE WARRANTED DURING CONSTRUCTION AND SHALL BE INCORPORATED INTO THE PROJECT AS REQUIRED OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. EMBANKMENT EROSION TO BE FILLED WITH EARTH BORROW, TOPSOIL AND SEED AND COVERED WITH EROSION MATTING OR AS DIRECTED BY THE RESIDENT ENGINEER.

PLAN

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04
DESIGN FILE NO. PLAN03.DGN
PROJ. NAME BENNINGTON - HOOSICK D.P.I. 01460(1) C/6
PROJ. NO. P.I.N. 1306.60
DWG NO. P-3 SHEET 22 OF 83

FILE NAME =u\S116\vaot\contract6\plan03.dgn
DATE/TIME =2/18/2004
USER =2225

Metric

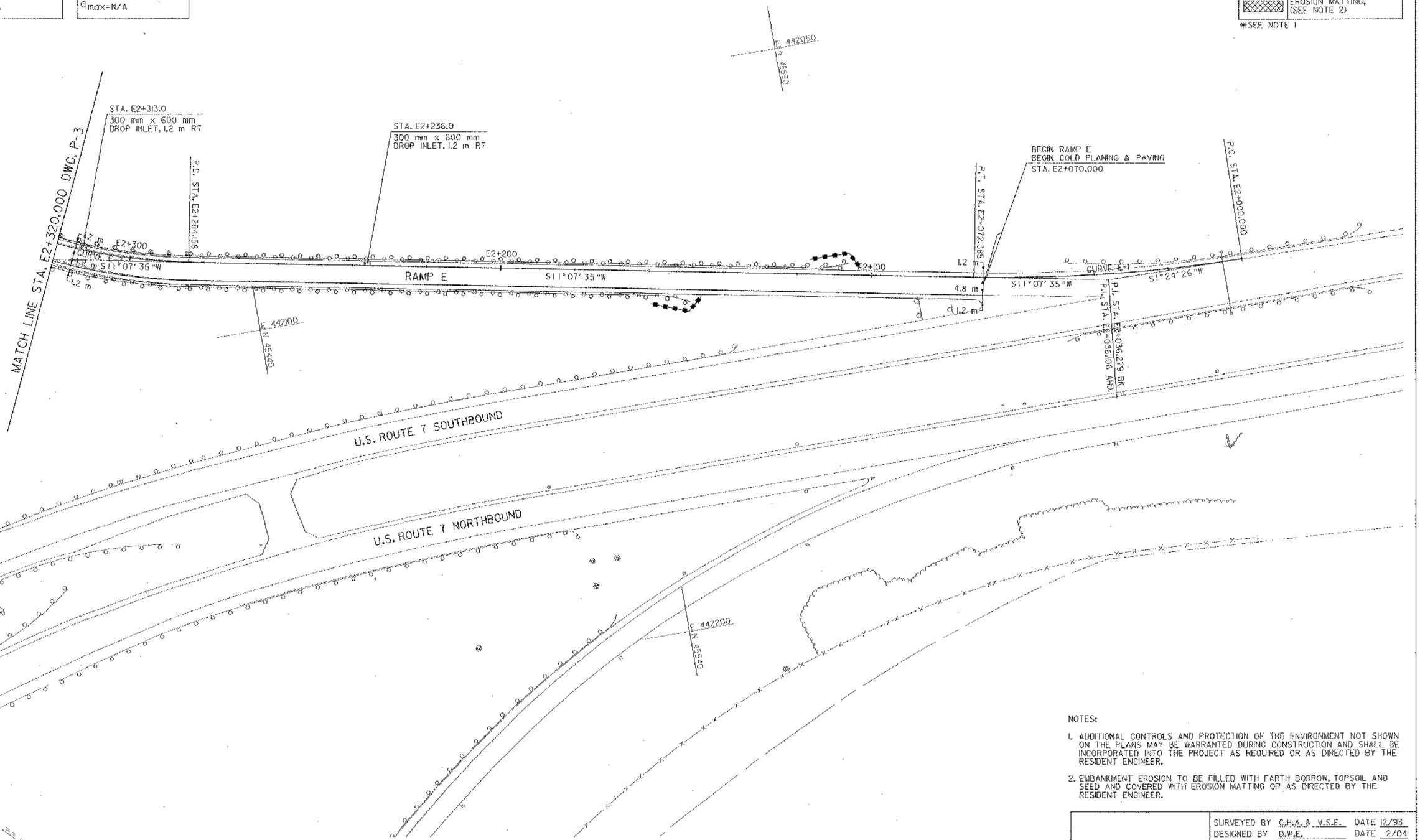
CURVE E-1
P.C.= STA. E2+000.000
P.T.= STA. E2+072.385
Δ=09°43'09.0" RT
R= 426.720 m
T= 36.279 m
L= 72.385 m
E= 1.539 m
emax=N/A

CURVE E-2
P.C.= STA. E2+284.158
P.T.= STA. E2+471.417
Δ=72°34'42.0" RT
R= 147.828 m
T= 108.547 m
L= 187.258 m
E= 35.572 m
emax=N/A

VT STATE PLANE GRID

LEGEND
- SILT FENCE
- SILT FENCE FOR DRAINAGE STRUCTURE PROTECTION
- EROSION MATTING, (SEE NOTE 2)

*SEE NOTE 1



604.40 CHANGE ELEVATION OF DI, CB OR MH
STA. E2+236.0 RT
STA. E2+313.0 RT

35 TREATED TIMBER CURB

616.31 BITUMINOUS CONCRETE CURB, TYPE B
STA. E2+156.2 - STA. E2+320.0 (6.7 †)

621.20 STEEL BEAM GUARDRAIL
STA. E2+113.3 - STA. E2+320.0 RT (206.7 m)
STA. E2+160.0 - STA. E2+320.0 LT (160.0 m)

621.505 MANUFACTURED TERMINAL SECTION (FLARED)
STA. E2+113.3 RT (1EA)
STA. E2+160.0 LT (1EA)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. E2+109.0 - STA. E2+320.0 RT (211.0 m)
STA. E2+150.0 - STA. E2+320.0 LT (170.0 m)

10 0 10 m
1: 500
@ FULL SIZE

NOTES:

1. ADDITIONAL CONTROLS AND PROTECTION OF THE ENVIRONMENT NOT SHOWN ON THE PLANS MAY BE WARRANTED DURING CONSTRUCTION AND SHALL BE INCORPORATED INTO THE PROJECT AS REQUIRED OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. EMBANKMENT EROSION TO BE FILLED WITH EARTH BORROW, TOPSOIL AND SEED AND COVERED WITH EROSION MATTING OR AS DIRECTED BY THE RESIDENT ENGINEER.

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

FILE NAME =u:\S16\vaot\contracts\plan04.dgn
DATE/TIME =2/16/2004
USER =2225

PLAN

SURVEYED BY	C.H.A. & V.S.F.	DATE 12/93
DESIGNED BY	D.W.F.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.F.G.	DATE 2/04
DESIGN FILE NO.	PLAN04.DGN	
PROJ. NAME	BENNINGTON - HOOSICK D.P.I. 0146(1) C/6	
PROJ. NO.	P.I.N. 1306.60	
DWG NO.	P-4	SHEET 23 OF 83

VAOT Metric

N
VT STATE PLANE GRID

TEMPORARY TRAFFIC BARRIER PREVIOUSLY INSTALLED BY OTHERS UNDER BENNINGTON - HOOSICK D.P.I. 0146(I) C/4

TYPE III BARRICADE

VT. ROUTE 67A

RAMP AB

RAMP A

RAMP B

VT. RAILWAY

MATCH LINE DWG. CSP-2

VT. ROUTE 279 WESTBOUND

VT. ROUTE 279 EASTBOUND

RAMP C

RAMP D

RAMP CD

TEMPORARY TRAFFIC BARRIER PREVIOUSLY INSTALLED BY OTHERS UNDER BENNINGTON - HOOSICK D.P.I. 0146(I) C/4

VT. ROUTE 67A

20 0 20 m
1:1000 @ FULL SIZE

PHASE I CONSTRUCTION NOTES

1. ESTABLISH PHASE I DETOUR & TRAFFIC PATTERNS AS SHOWN.
2. CLOSE WESTBOUND BARREL OF VT. ROUTE 279 AS SHOWN AND PER THE AGENCY'S STANDARDS AND CONSTRUCT THE WESTBOUND BARREL OF VT. ROUTE 279 TO THE LIMITS SHOWN.
3. SEE DWG. CSP-10 AND CSP-11 FOR TEMPORARY LANE CLOSURE DETAILS ALONG VT. ROUTE 67A AND HISTORIC VT. ROUTE 7A.
4. INSTALL TEMPORARY SIGNING & STRIPING ON WESTBOUND BARREL AS SHOWN ON DWG. TSP-1 THRU TSP-4 AND AS DIRECTED BY THE RESIDENT ENGINEER.

LEGEND

- LIMITS OF CONSTRUCTION THIS PHASE
- ROADWAY OPEN TO TRAFFIC

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION SEQUENCING PLAN PHASE 1

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. CSP01.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(I) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. CSP-1 SHEET 24 OF 83

FILE NAME =u:\5116\vsot\contract6\csp01.dgn
DATE/TIME =2/16/2004
USER =2225

VAOT Metric

N
VT STATE PLANE GRID

U.S. ROUTE 7 SOUTHBOUND RAMP

HISTORIC VT. ROUTE 7A

VT. ROUTE 279 WESTBOUND

VT. ROUTE 279 EASTBOUND

VT. RAILWAY

U.S. ROUTE 7 SOUTHBOUND

U.S. ROUTE 7 NORTHBOUND

TYPE III BARRICADE

MATCH LINE DWG. CSP-1

MATCH LINE DWG. CSP-3

20 0 20 m
1:1000 @ FULL SIZE

LEGEND

- TEMPORARY CONSTRUCTION
- LIMITS OF CONSTRUCTION THIS PHASE
- ROADWAY OPEN TO TRAFFIC

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION SEQUENCING PLAN PHASE 1

SURVEYED BY	C.H.A. & V.S.E.	DATE	12/93
DESIGNED BY	D.W.E.	DATE	2/04
DRAWN BY	C.A.K.	DATE	2/04
CHECKED BY	D.E.G.	DATE	2/04

DESIGN FILE NO. CSP02.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. CSP-2 SHEET 25 OF 83

FILE NAME =u:\5116\vaot\contract6\csp02.dgn
DATE/TIME =2/16/2004
USER =2225

VAOT Metric

N
VT STATE PLANE GRID

MATCH LINE DWG. CSP-2

U.S. ROUTE 7 NORTHBOUND

PILES

PILES

20 0 20 m
1:1000 @
FULL SIZE

LEGEND

ROADWAY OPEN TO TRAFFIC

ROADWAY OPEN TO CONSTRUCTION TRAFFIC ONLY

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION SEQUENCING PLAN PHASE 1

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. CSP03.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

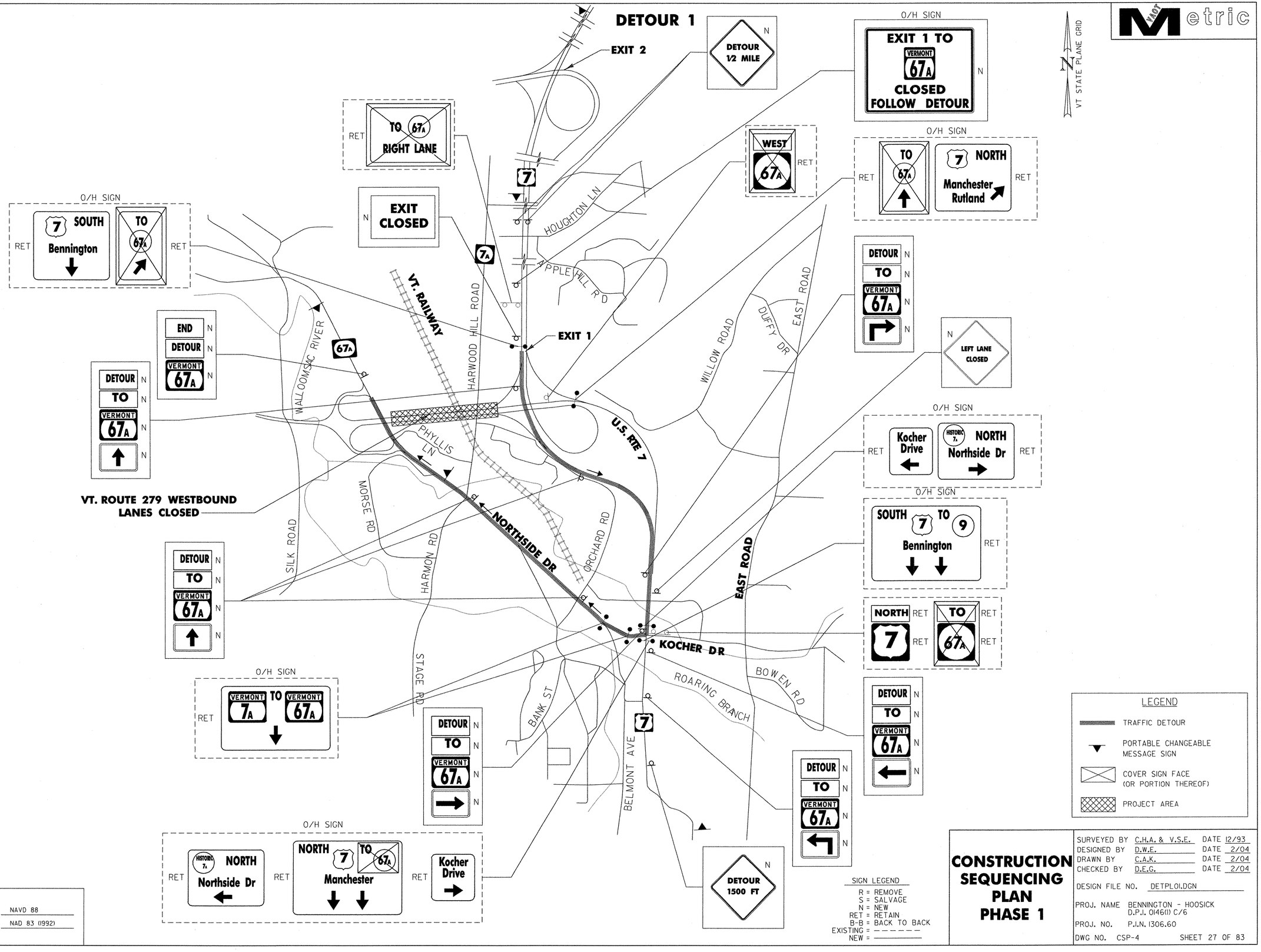
PROJ. NO. P.I.N. 1306.60

DWG NO. CSP-3 SHEET 26 OF 83

FILE NAME =u:\5116\vaot\contract6\csp03.dgn
DATE/TIME =2/17/2004
USER =2225

NOTES:

DETOUR 1



LEGEND

- TRAFFIC DETOUR
- PORTABLE CHANGEABLE MESSAGE SIGN
- COVER SIGN FACE (OR PORTION THEREOF)
- PROJECT AREA

SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = — — — — —
NEW = ————

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION SEQUENCING PLAN PHASE 1

SURVEYED BY	C.H.A. & V.S.E.	DATE	12/93
DESIGNED BY	D.W.E.	DATE	2/04
DRAWN BY	C.A.K.	DATE	2/04
CHECKED BY	D.E.G.	DATE	2/04

DESIGN FILE NO. DETPL01.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. CSP-4 SHEET 27 OF 83

FILE NAME =u:\5116\vaot\contract6\detpl01.dgn
DATE/TIME =2/16/2004
USER =2225

VAOT Metric

N
VT STATE PLANE GRID

TEMPORARY TRAFFIC BARRIER PREVIOUSLY INSTALLED BY OTHERS UNDER BENNINGTON - HOOSICK D.P.I. 0146(1) C/4, (SEE NOTE 4)

VT. ROUTE 67A

RAMP AB

RAMP A

RAMP B

VT. ROUTE 279 WESTBOUND

VT. RAILWAY

MATCH LINE DWG. CSP-5

VT. ROUTE 279 EASTBOUND

RAMP C

RAMP D

RAMP CD

TEMPORARY TRAFFIC BARRIER

TEMPORARY TRAFFIC BARRIER PREVIOUSLY INSTALLED BY OTHERS UNDER BENNINGTON - HOOSICK D.P.I. 0146(1) C/4, (SEE NOTE 4)

VT. ROUTE 67A

PHASE 2 CONSTRUCTION NOTES

1. ESTABLISH PHASE 2 DETOUR & TRAFFIC PATTERNS.
2. CLOSE EASTBOUND BARREL OF VT. ROUTE 279 & CONSTRUCT TO THE LIMITS SHOWN.
3. SEE DWG. CSP-10 AND CSP-11 FOR TEMPORARY LANE CLOSURE DETAILS ALONG VT. ROUTE 67A AND HISTORIC VT. ROUTE 7A.
4. REMOVE TEMPORARY TRAFFIC BARRIER INSTALLED BY OTHERS ON RAMP AB AND RAMP CD AS DIRECTED BY THE RESIDENT ENGINEER.

LEGEND

- LIMITS OF CONSTRUCTION THIS PHASE
- ROADWAY OPEN TO TRAFFIC

20 0 20 m
1:1000 @ FULL SIZE

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION SEQUENCING PLAN PHASE 2

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. CSP04.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. CSP-5 SHEET 28 OF 83

FILE NAME =u:\5116\vaot\contract6\csp04.dgn
DATE/TIME =2/16/2004
USER =2225

Metric

VT STATE PLANE GRID

MATCH LINE DWG. CSP-4

MATCH LINE DWG. CSP-6

HISTORIC VT. ROUTE 7A

U.S. ROUTE 7 SOUTHBOUND RAMP

VT. ROUTE 279 WESTBOUND

VT. ROUTE 279 EASTBOUND

VT. RAILWAY

U.S. ROUTE 7 SOUTHBOUND

U.S. ROUTE 7 NORTHBOUND

20 0 20 m

1:1000 @ FULL SIZE

LEGEND

CONSTRUCTION THIS PHASE

ROADWAY OPEN TO TRAFFIC

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

CONSTRUCTION SEQUENCING PLAN PHASE 2

SURVEYED BY C.H.A. & V.S.E. DATE 12/93

DESIGNED BY D.W.E. DATE 2/04

DRAWN BY C.A.K. DATE 2/04

CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. CSP05.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. CSP-6 SHEET 29 OF 83

FILE NAME = u:\5116\vaot\contract6\csp05.dgn
DATE/TIME = 2/16/2004
USER = 2225

NOTES:

EAST Metric

VT STATE PLANE GRID

MATCH LINE DWG. CSP-5

U.S. ROUTE 7 NORTHBOUND

PILES

PILES

20 0 20 m

1:1000 @ FULL SIZE

LEGEND

CONSTRUCTION THIS PHASE

ROADWAY OPEN TO TRAFFIC

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

CONSTRUCTION SEQUENCING PLAN PHASE 2

SURVEYED BY C.H.A. & V.S.E. DATE 12/93

DESIGNED BY D.W.E. DATE 2/04

DRAWN BY C.A.K. DATE 2/04

CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. CSP06.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. CSP-7 SHEET 30 OF 83

FILE NAME =u:\5116\vsot\contract6\csp06.dgn
DATE/TIME =2/17/2004
USER =2225

DETOUR 2

VT. ROUTE 279 EASTBOUND LANES CLOSED

SEE DWG. CSP-9 FOR THE VT. ROUTE 67A CONNECTOR DETOUR DETAILS

EXIT 1

O/H SIGN
RET — 7 SOUTH Bennington — TO 67A — RET

RET — TO 67A RIGHT LANE

WEST 67A RET RET

O/H SIGN
RET — TO 67A — 7 NORTH Manchester Rutland — RET

END N
DETOUR N
7 N

O/H SIGN
RET — Kocher Drive — HISTORIC 7A NORTH Northside Dr — RET

RET — NORTH 7 — TO 67A — RET RET

O/H SIGN
SOUTH 7 TO 9 Bennington — RET

N DETOUR
N TO
N 7

O/H SIGN
RET — TO 7 Benmont Avenue — RET

O/H SIGN
RET — NORTH 7 — RET — Kocher Drive — RET — SOUTH 7 — RET

O/H SIGN
HISTORIC 7A NORTH Northside Dr — RET — NORTH 7 TO 67A Manchester — RET — Kocher Drive — RET

N END
N DETOUR
N 7

RICE LANE
HOUGHTON LN
APPLE HILL RD
VT. RAILWAY
HARWOOD HILL ROAD
WALLOOMSAC RIVER
PHYLLIS LN
MORSE RD
SILK ROAD
HARMON RD
ORCHARD RD
U.S. RTE 7
NORTHSIDE DR
KOCHER DR
EAST ROAD
WILLOW ROAD
DUFFY DR
FURNACE BROOK
CHAPEL ROAD
VAIL ROAD
FAIRVIEW ST
STAGE RD
BANK ST
BELMONT AVE
BOWEN RD
NORTH BRANCH ST
ROARING BRANCH
WALLOOMSAC RD

VT STATE PLANE GRID

LEGEND
- TRAFFIC DETOUR
- PORTABLE CHANGEABLE MESSAGE SIGN
- COVER SIGN FACE (OR PORTION THEREOF)
- SIGN FACE COVERED UNDER BENNINGTON-HOOSICK D.P.I. 0146(1) C/4
- PROJECT AREA

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = – – – – – –
NEW = ————————

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

CONSTRUCTION SEQUENCING PLAN PHASE 2

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. DETPL02.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

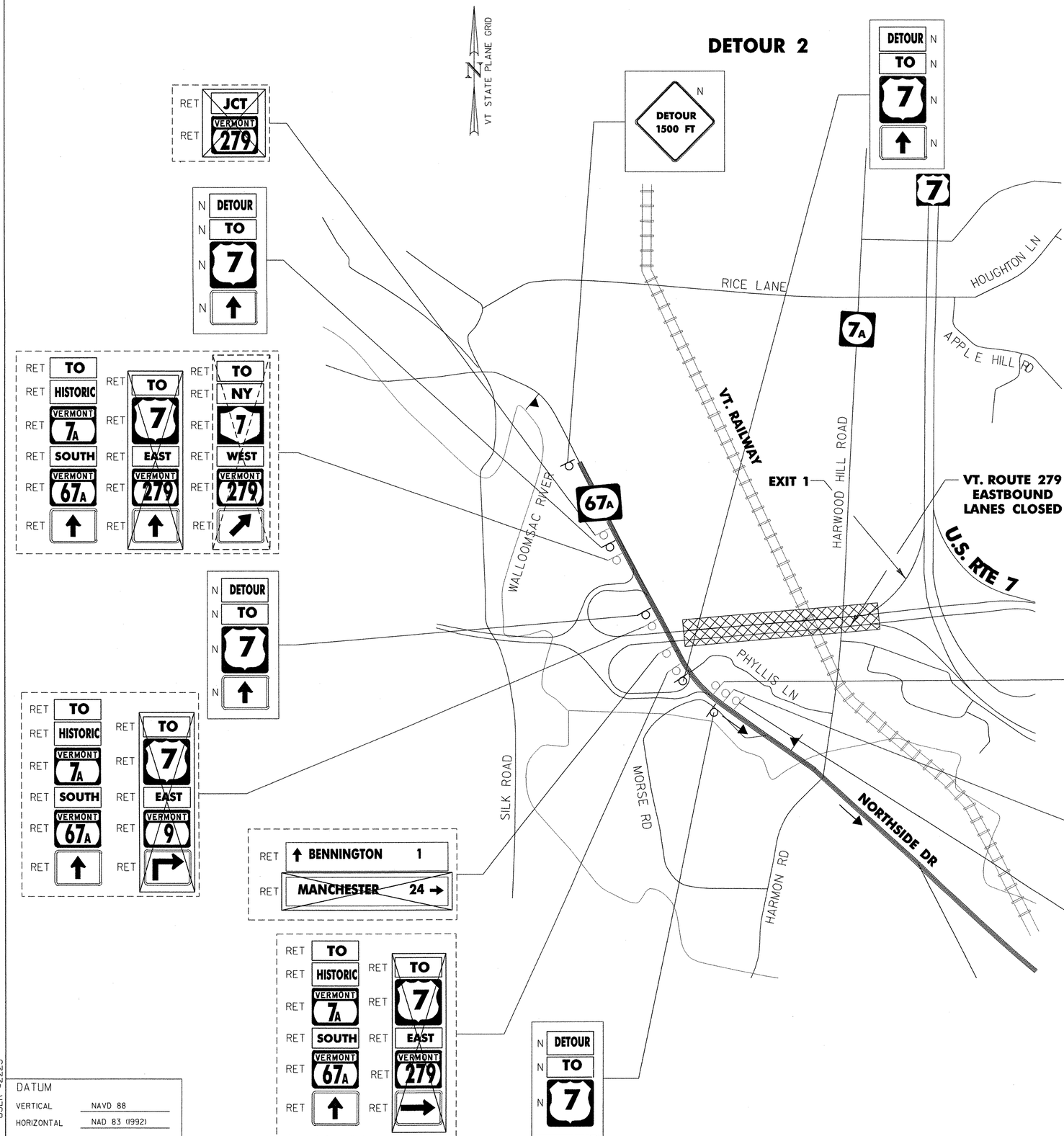
DWG NO. CSP-8 SHEET 31 OF 83

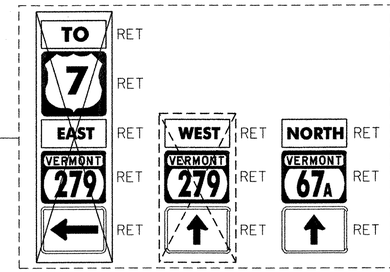
FILE NAME =u:\5116\vaot\contract6\detpl02.dgn
DATE/TIME = 2/16/2004
USER = 2225

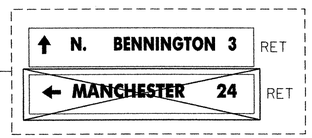
VAOT Metric

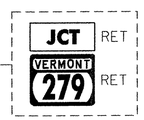
DETOUR 2

VT STATE PLANE GRID









LEGEND

- TRAFFIC DETOUR
- PORTABLE CHANGEABLE MESSAGE SIGN
- COVER SIGN FACE (OR PORTION THEREOF)
- SIGN FACE COVERED UNDER BENNINGTON-HOOSICK D.P.I. 0146(1) C/4
- PROJECT AREA

SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = – – – – –
NEW = ————

DATUM

VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

FILE NAME =u:\5116\vaot\contract6\detpl03.dgn
DATE/TIME =2/16/2004
USER =2225

CONSTRUCTION SEQUENCING PLAN PHASE 2

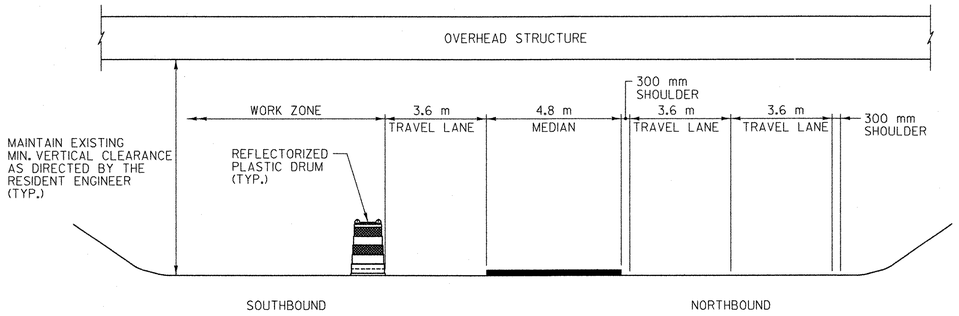
SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. DETPL03.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

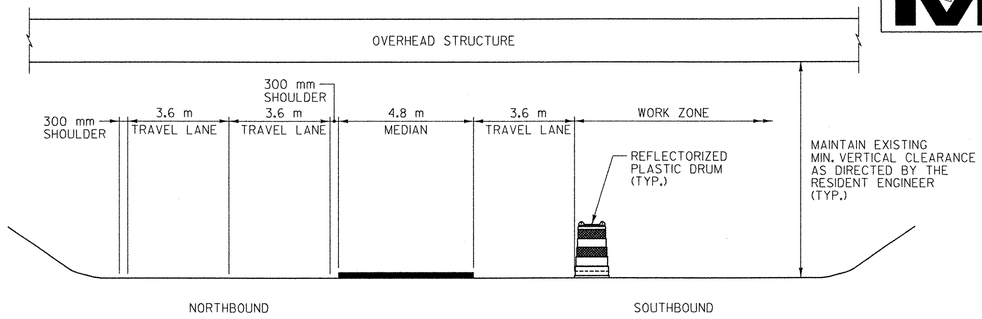
DWG NO. CSP-9 SHEET 32 OF 83



VT. ROUTE 67A

TYPICAL TEMPORARY LANE CLOSURE
PHASE 1

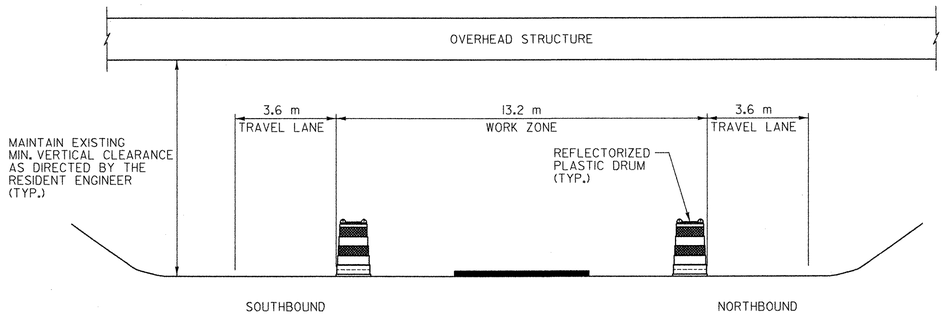
N.T.S



VT. ROUTE 67A

TYPICAL TEMPORARY LANE CLOSURE
PHASE 3

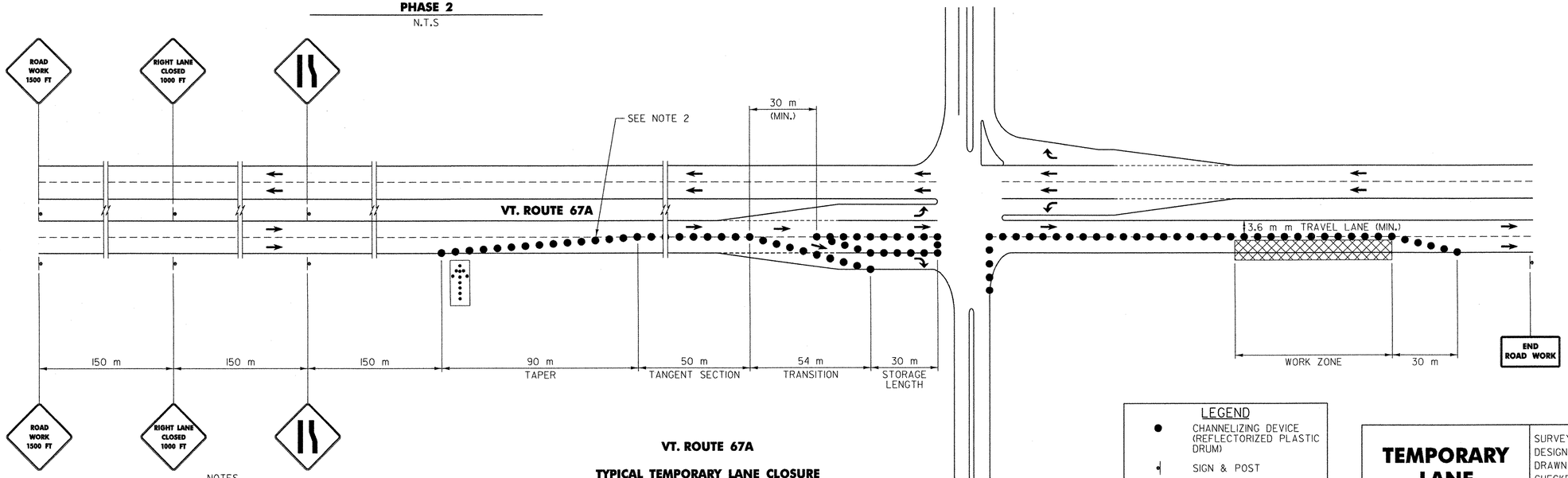
N.T.S



VT. ROUTE 67A

TYPICAL TEMPORARY LANE CLOSURE
PHASE 2

N.T.S



VT. ROUTE 67A

TYPICAL TEMPORARY LANE CLOSURE
WITH TURN LANE

N.T.S

NOTES

1. TEMPORARY LANE CLOSURES SHALL ONLY BE USED FOR DAILY CONSTRUCTION ACTIVITIES WITHIN THE WORK ZONE. NO TEMPORARY LANE CLOSURES SHALL BE LEFT IN PLACE OVERNIGHT OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. SEE VAOT STANDARD SHEET E-106M FOR CHANNELIZING DEVICE SPACING.

LEGEND

- CHANNELIZING DEVICE (REFLECTORIZED PLASTIC DRUM)
- SIGN & POST
- WORK ZONE
- FLASHING ARROW PANEL
- FLAGGERS

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

TEMPORARY LANE CLOSURE DETAILS VT. ROUTE 67A

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

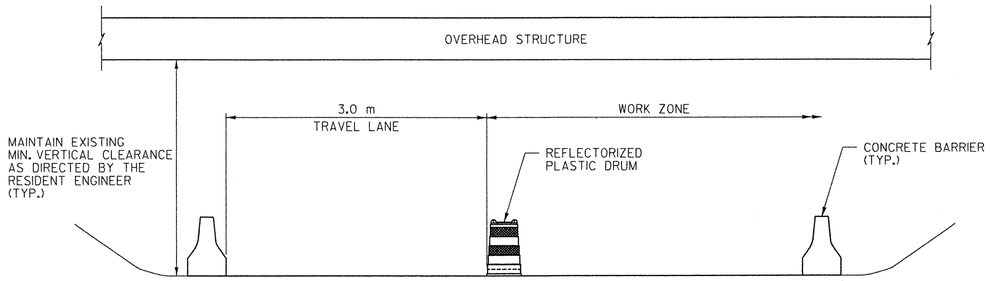
DESIGN FILE NO. TLC01.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. CSP-10 SHEET 33 OF 83

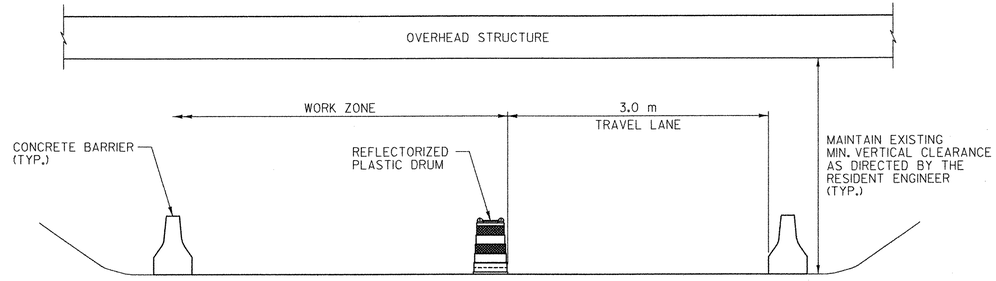
FILE NAME =u:\5116\vaot\contract6\tlc01.dgn
DATE/TIME = 2/16/2004
USER = 2225



HISTORIC VT. ROUTE 7A

TYPICAL TEMPORARY LANE CLOSURE
PHASE 1

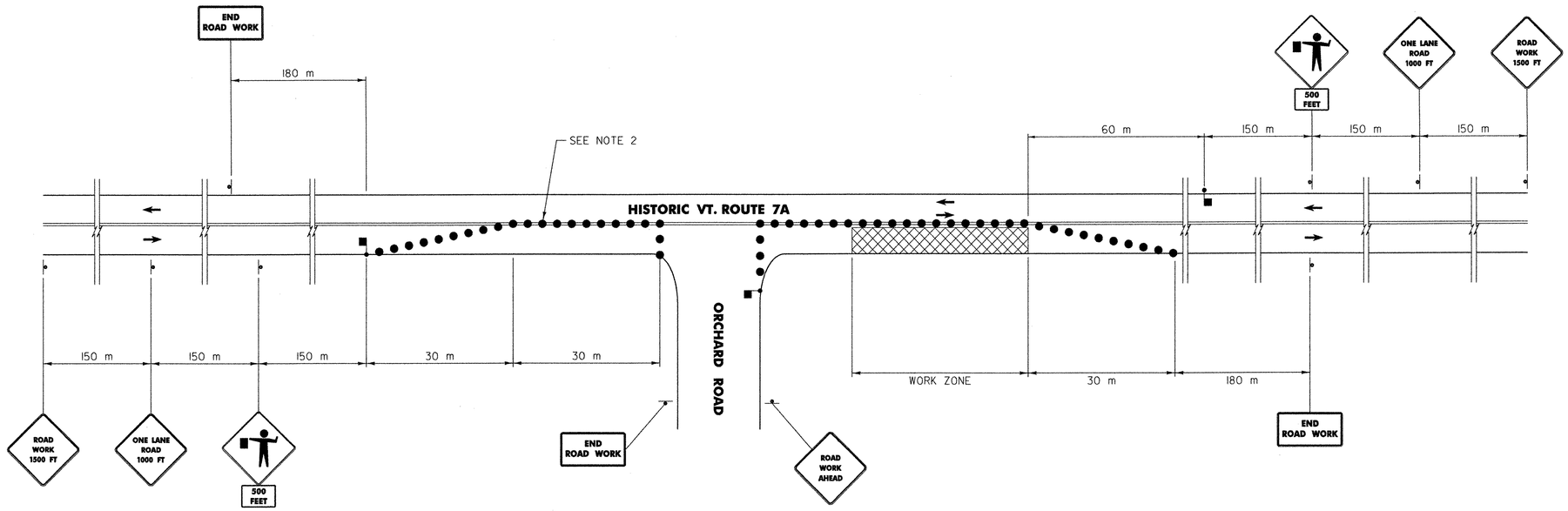
N.T.S



HISTORIC VT. ROUTE 7A

TYPICAL TEMPORARY LANE CLOSURE
PHASE 2

N.T.S



HISTORIC VT. ROUTE 7A

TYPICAL TEMPORARY LANE CLOSURE

N.T.S

LEGEND

- CHANNELIZING DEVICE (REFLECTORIZED PLASTIC DRUM)
- SIGN & POST
- WORK ZONE
- FLASHING ARROW PANEL
- FLAGGERS

NOTES

1. TEMPORARY LANE CLOSURES SHALL ONLY BE USED FOR DAILY CONSTRUCTION ACTIVITIES WITHIN THE WORK ZONE. NO TEMPORARY LANE CLOSURES SHALL BE LEFT IN PLACE OVERNIGHT OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. SEE VAOT STANDARD SHEET E-106M FOR CHANNELIZING DEVICE SPACING.

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

TEMPORARY LANE CLOSURE DETAILS HISTORIC VT. ROUTE 7A

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

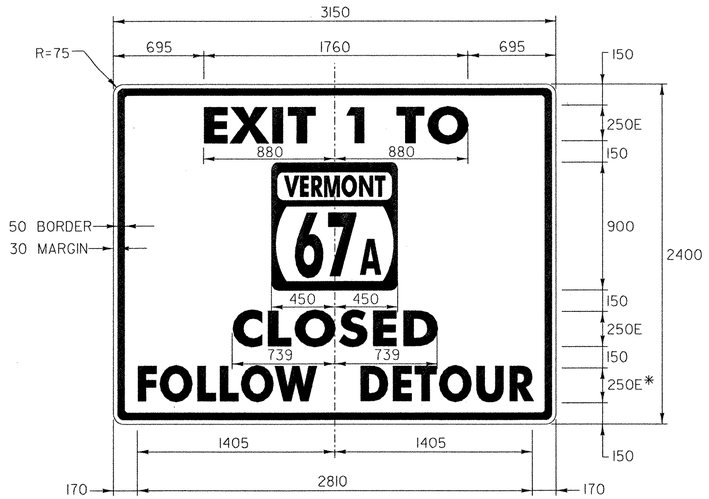
DESIGN FILE NO. TLC01.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

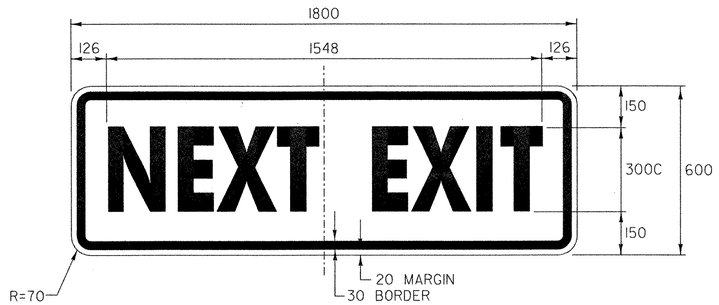
DWG NO. CSP-11 SHEET 34 OF 83

FILE NAME =u:\516\vaot\contract6\tlc01.dgn
DATE/TIME =2/16/2004
USER =2225



COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-131M
* 50% REDUCTION IN SPACING



COLOR: BLACK BORDER & TEXT (REFLECTORIZED)
ORANGE BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-155M

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. MINOR VARIATIONS IN TEXT DIMENSIONS ARE ACCEPTABLE BASED ON INDIVIDUAL MANUFACTURER'S LETTER FABRICATION. SIGNIFICANT CHANGES WHICH AFFECT SIGN APPEARANCE SHALL BE BROUGHT TO THE ATTENTION OF THE VAOT'S TRAFFIC OPERATIONS SECTION AND RESIDENT ENGINEER FOR APPROVAL BEFORE FABRICATION.

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

CONSTRUCTION SIGN DETAILS

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. DETPL06.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. CSP-12 SHEET 35 OF 83

FILE NAME =u:\5116\vaot\contract6\detpl06.dgn
DATE/TIME =2/16/2004
USER =2225

646.614 TEMPORARY 150 mm WHITE LINE (TYPE II TAPE)

W.B. STA. 17+305.027 - W.B. STA. 17+540.000 SOLID LT (EDGE LINE)
STA. B10+064.800 - STA. B10+175.097 RT (EDGE LINE)

646.615 TEMPORARY 150 mm YELLOW LINE (TYPE II TAPE)

W.B. STA. 17+305.027 - W.B. STA. 17+540.000 SOLID RT (EDGE LINE)
STA. B10+064.800 - STA. B10+175.097 LT (EDGE LINE)

VAOT Metric

N
VT STATE PLANE GRID

W.B. STA. 17+376.0, LT
25 MPH
RET
RET
BRIDGE 1-9 VT 279
RET
RET

W.B. STA. 17+431.0, LT
FLASHING BEACON
RET
RET
1000 FEET
RET
RET

END APPROACH
BEGIN ROADWAY
END BENNINGTON-HOOSICK D.P.I. 0146(1) C/4
BEGIN BENNINGTON-HOOSICK D.P.I. 0146(1) C/6
BEGIN APPROACH SLAB
STA. B10+064.800 =
W.B. STA. 17+305.027

VT. ROUTE 67A

BEGIN APPROACH
STA. B10+175.097

B10+200 RAMP B
Y10+200
X10+200
RAMP X
B10+100
X10+300
D10+200
D10+100
RAMP D

17+400 VT. ROUTE 279 (WESTBOUND)
STA. 17+450.000
17+500
VT. ROUTE 279 (EASTBOUND)
17+400
17+500

3.4 m
3.6 m
5.4 m
1.2 m
3.0 m
4.8 m
7.2 m

MATCH LINE W.B. STA. 17+540.000 DWG. TSS-2

END APPROACH
BEGIN ROADWAY
END BENNINGTON-HOOSICK D.P.I. 0146(1) C/4
BEGIN BENNINGTON-HOOSICK D.P.I. 0146(1) C/6
BEGIN APPROACH SLAB
STA. D10+236.439 =
E.B. STA. 17+298.377

END RAMP D
STA. D10+298.036 =
E.B. STA. 17+359.974

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = — — — — —
NEW = ————

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

10 0 10 m
1: 500
@ FULL SIZE

TEMPORARY WESTBOUND SIGNING AND STRIPING PLAN

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. TSS01.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. TSP-1 SHEET 36 OF 83

FILE NAME =u:\5116\vaot\contract6\tss01.dgn
DATE/TIME =2/16/2004
USER =2225

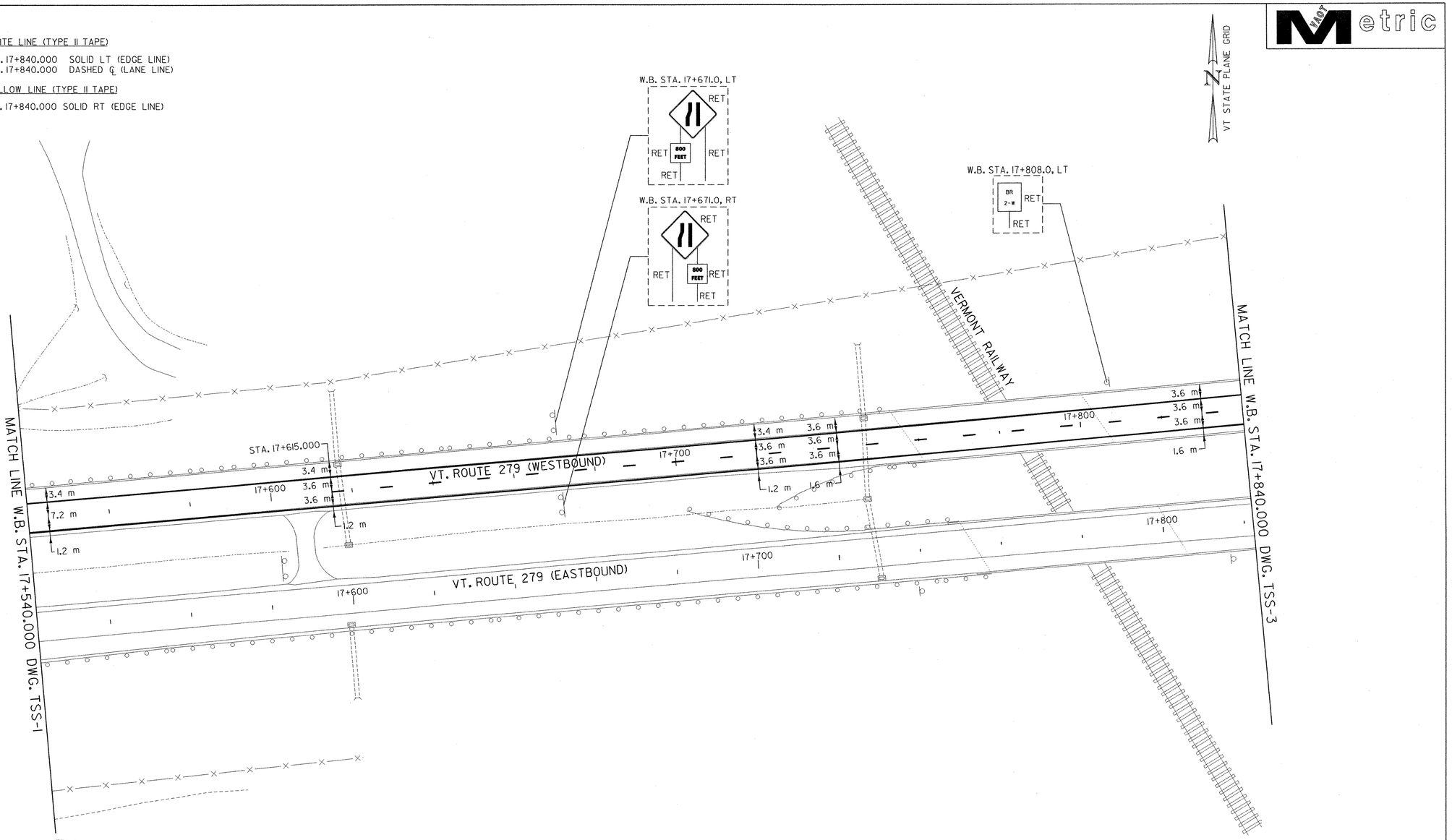
646.614 TEMPORARY 150 mm WHITE LINE (TYPE II TAPE)

W.B. STA. 17+540.000 - W.B. STA. 17+840.000 SOLID LT (EDGE LINE)
W.B. STA. 17+615.000 - W.B. STA. 17+840.000 DASHED ℄ (LANE LINE)

646.615 TEMPORARY 150 mm YELLOW LINE (TYPE II TAPE)

W.B. STA. 17+540.000 - W.B. STA. 17+840.000 SOLID RT (EDGE LINE)

VAOT Metric



SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = ———
NEW = ———

10 0 10 m
1: 500
@ FULL SIZE

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

TEMPORARY WESTBOUND SIGNING AND STRIPING PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. TSS02.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. TSP-2 SHEET 37 OF 83

FILE NAME =u:\516\vaot\contract6\tss02.dgn
DATE/TIME =2/16/2004
USER =2225

646.614 TEMPORARY 150 mm WHITE LINE (TYPE II TAPE)

W.B. STA. 17+840.000 - W.B. STA. 17+938.000 DASHED ℄ (LANE LINE)
W.B. STA. 17+840.000 - W.B. STA. 17+941.584 SOLID LT (EDGE LINE)
W.B. STA. 17+982.000 - W.B. STA. 18+000.000 SOLID LT (EDGE LINE)
STA. E2+320.000 - STA. E2+471.417 SOLID RT (EDGE LINE)

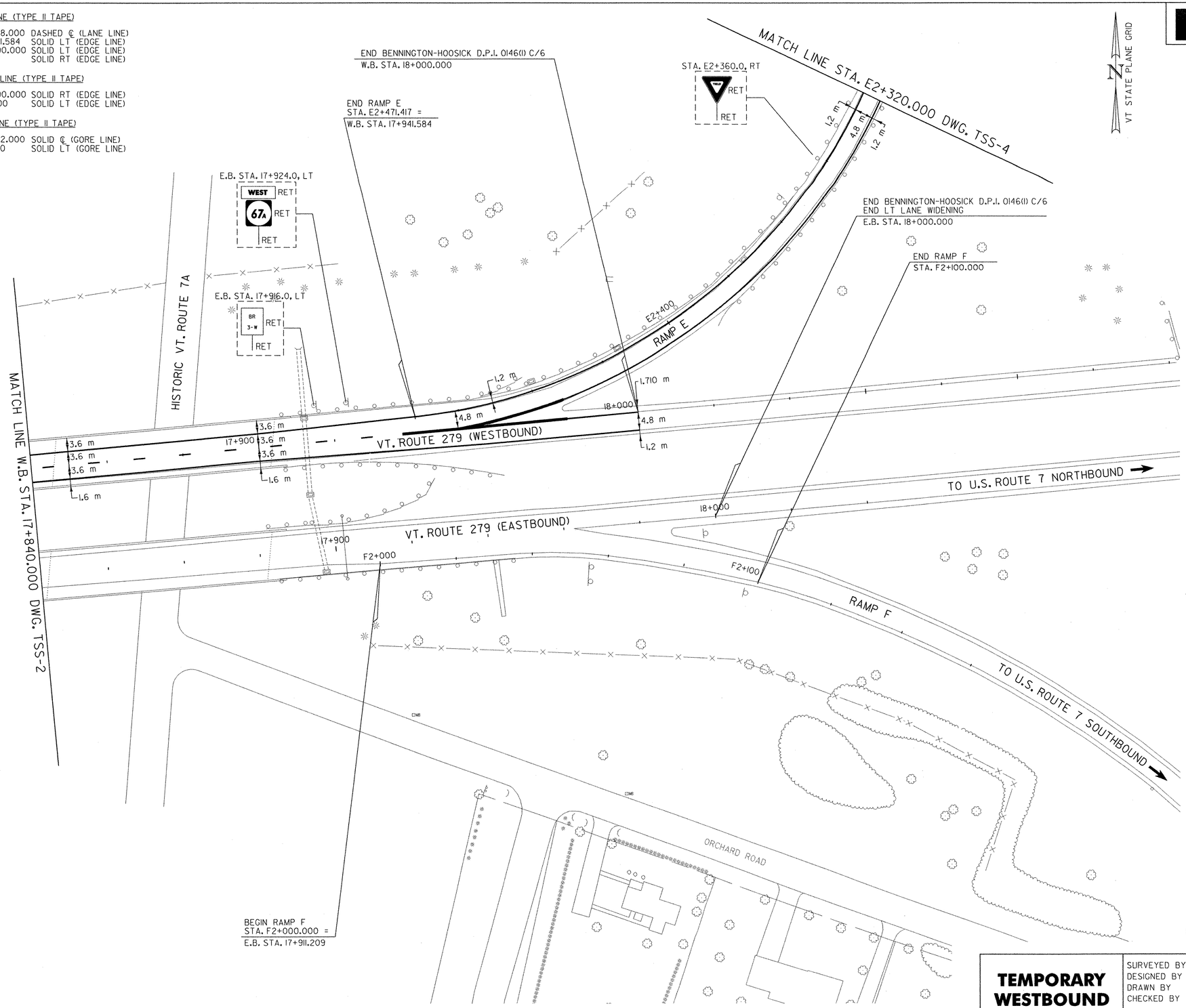
646.615 TEMPORARY 150 mm YELLOW LINE (TYPE II TAPE)

W.B. STA. 17+840.000 - W.B. STA. 18+000.000 SOLID RT (EDGE LINE)
STA. E2+320.000 - STA. E2+434.500 SOLID LT (EDGE LINE)

646.64 TEMPORARY 300 mm WHITE LINE (TYPE II TAPE)

W.B. STA. 17+938.000 - W.B. STA. 17+982.000 SOLID ℄ (GORE LINE)
STA. E2+434.500 - STA. E2+461.000 SOLID LT (GORE LINE)

VAOT Metric



SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————————

10 0 10 m
1: 500
@ FULL SIZE

DATUM

VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

TEMPORARY WESTBOUND SIGNING AND STRIPING PLAN

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. TSS03.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. TSP-3 SHEET 38 OF 83

FILE NAME =u:\5116\vaot\contract6\tss03.dgn
DATE/TIME =2/16/2004
USER =2225

646.614 TEMPORARY 150 mm WHITE LINE (TYPE II TAPE)

STA. E2+070.000 - STA. E2+320.000 SOLID RT (EDGE LINE)

646.615 TEMPORARY 150 mm YELLOW LINE (TYPE II TAPE)

STA. E2+070.000 - STA. E2+320.000 SOLID LT (EDGE LINE)

VT STATE PLANE GRID

N

VAOT Metric

E 442050
N 45590

STA. E2+077.0, LT
RET
RET

BEGIN RAMP E
STA. E2+070.000

MATCH LINE STA. E2+320.000 DWG. TSS-3

1.2 m
4.8 m
1.2 m

E2+300
E2+200
E2+100
E2+000

RAMP E

E 442100
N 45440

U.S. ROUTE 7 SOUTHBOUND

U.S. ROUTE 7 NORTHBOUND

E 442200
N 45540

STA. E2+087.0, LT
RET
EXIT 1
RET
RET

SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

10 0 10 m
1: 500
@ FULL SIZE

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

TEMPORARY WESTBOUND SIGNING AND STRIPING PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE	12/93
DESIGNED BY	D.W.E.	DATE	2/04
DRAWN BY	C.A.K.	DATE	2/04
CHECKED BY	D.E.G.	DATE	2/04

DESIGN FILE NO. TSS04.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

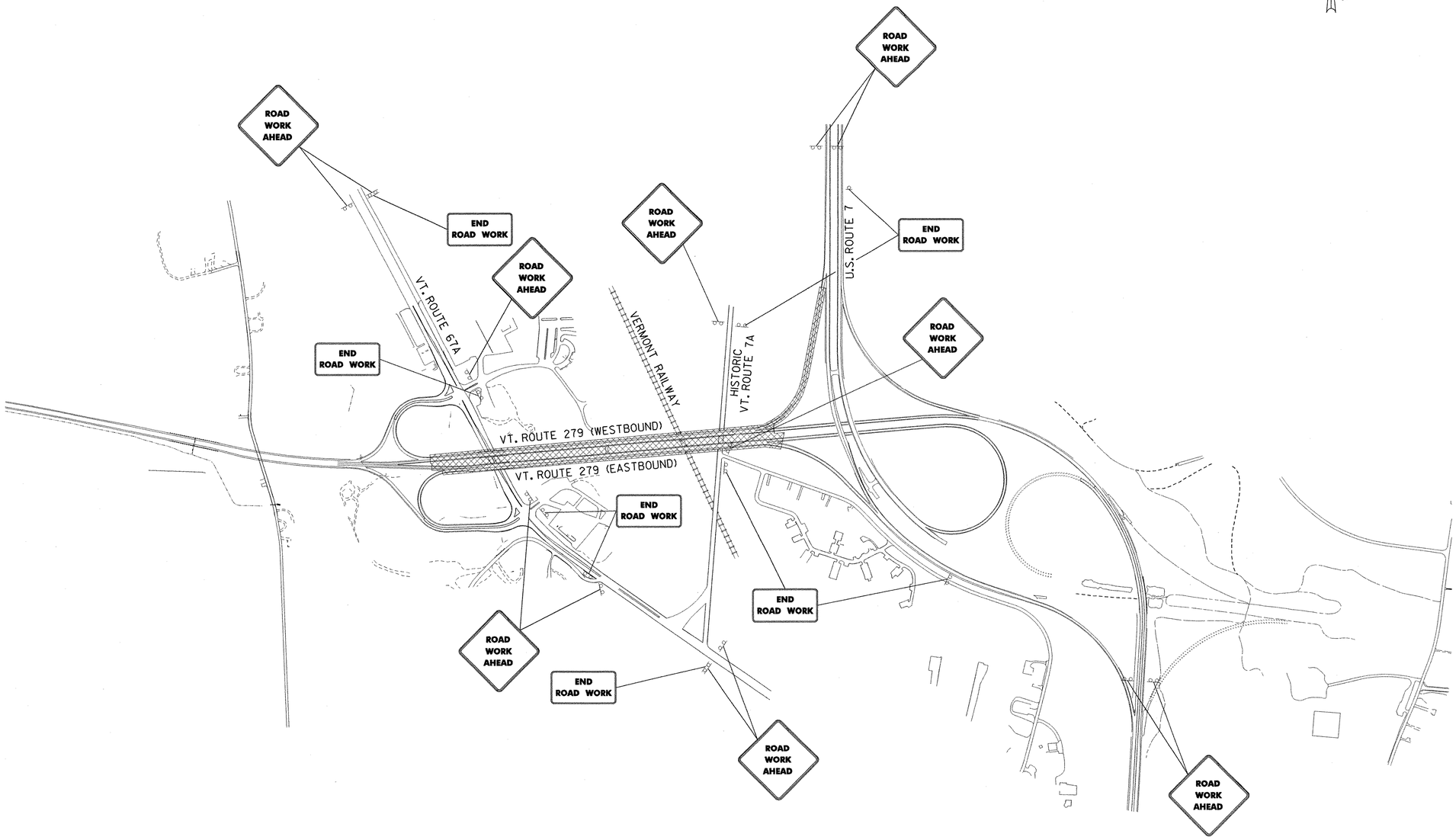
DWG NO. TSP-4 SHEET 39 OF 83

FILE NAME = u:\5116\vaot\contract6\tss04.dgn
DATE/TIME = 2/16/2004
USER = 2225

VAOT Metric

N

VT STATE PLANE GRID



PROJECT AREA

100 0 100 m

1: 5000
@ FULL SIZE

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

CONSTRUCTION APPROACH SIGNING DETAIL SHEET

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. CAS.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. CAS-1 SHEET 40 OF 83

FILE NAME =u:\5116\vaot\contract6\cas.dgn
DATE/TIME = 2/16/2004
USER = 2225

646.414 DURABLE 150 mm WHITE LINE

W.B. STA. 17+305.027	- W.B. STA. 17+540.000	DASHED ℄ (LANE LINE)
W.B. STA. 17+305.027	- W.B. STA. 17+540.000	SOLID LT (EDGE LINE)
E.B. STA. 17+298.377	- E.B. STA. 17+522.100	DASHED ℄ (LANE LINE)
E.B. STA. 17+299.900	- E.B. STA. 17+522.100	SOLID RT (EDGE LINE)
STA. B10+064.800	- STA. B10+100.000	DASHED ℄ (LANE LINE)
STA. B10+064.800	- STA. B10+175.097	SOLID RT (EDGE LINE)
STA. D10+140.000	- STA. D10+237.962	SOLID RT (EDGE LINE)
STA. X10+220.000	- STA. X10+246.000	SOLID RT (EDGE LINE)

646.415 DURABLE 150 mm YELLOW LINE

W.B. STA. 17+306.552	- W.B. STA. 17+540.000	SOLID RT (EDGE LINE)
E.B. STA. 17+289.729	- E.B. STA. 17+522.100	SOLID LT (EDGE LINE)
STA. B10+063.272	- STA. B10+175.097	SOLID LT (EDGE LINE)
STA. X10+220.000	- X10+331.096	SOLID LT (EDGE LINE)

646.44 DURABLE 300 mm WHITE LINE

STA. B10+100.000	- STA. B10+175.097	SOLID ℄ (GORE LINE)
STA. D10+140.000	- STA. D10+236.439	SOLID ℄ (GORE LINE)
STA. D10+187.000	- STA. D10+260.000	DIAGONALS RT (SHOULDER AREA)
STA. X10+246.000	- STA. X10+320.000	SOLID 3.6 m RT (GORE LINE)

675.50 REMOVING SIGNS

AS SHOWN - 5

VT. ROUTE 67A

BEGIN RAMP B
STA. B10+000.000 =
W.B. STA. 17+369.827

W.B. STA. 17+379.0, LT

W.B. STA. 17+379.0, LT

REMOVE FLASHING BEACON AND INSTALL ON NEW POSTS

W.B. STA. 17+431.0, LT

W.B. STA. 17+431.0, LT

W.B. STA. 17+530.3, LT (O/H SIGN)

Bennington
North Bennington
EXIT ONLY

VT STATE PLANE GRID

END APPROACH
BEGIN ROADWAY
END BENNINGTON-HOOSICK D.P.I. 0146(1) C/4
BEGIN BENNINGTON-HOOSICK D.P.I. 0146(1) C/6
BEGIN APPROACH SLAB
STA. B10+064.800 =
W.B. STA. 17+305.027

BEGIN APPROACH
STA. B10+175.097

VT. ROUTE 279 (WESTBOUND)

VT. ROUTE 279 (EASTBOUND)

MATCH LINE W.B. STA. 17+540.000 DWG. SSP-2

RAMP B

RAMP X

RAMP D

P.C.
STA. X10+236.136

P.C.C.
STA. D10+105.074

P.T.
STA. D10+157.346

BEGIN APPROACH
STA. X10+220.000

BEGIN APPROACH
STA. D10+140.000

END RAMP X
STA. X10+331.096 =
E.B. STA. 17+289.729

END APPROACH
BEGIN ROADWAY
END BENNINGTON-HOOSICK D.P.I. 0146(1) C/4
BEGIN BENNINGTON-HOOSICK D.P.I. 0146(1) C/6
BEGIN APPROACH SLAB
STA. D10+236.439 =
E.B. STA. 17+298.377

END RAMP D
STA. D10+298.036 =
E.B. STA. 17+359.974

E.B. STA. 17+305.0, RT

E.B. STA. 17+305.0, RT

E.B. STA. 17+450.0, RT

EMERGENCY STOPPING ONLY

E.B. STA. 17+510.0, RT

EAST VERMONT 279 TO 7

676.10 DELINEATORS W/STEEL POSTS

TYPE I, WHITE

W.B. STA. 17+441.3 LT
W.B. STA. 17+521.8 LT
E.B. STA. 17+441.3 RT
E.B. STA. 17+521.8 RT

TYPE I, AMBER

W.B. STA. 17+441.3 RT
W.B. STA. 17+521.8 RT
E.B. STA. 17+441.3 LT
E.B. STA. 17+521.8 LT

LEGEND

- TYPE I, WHITE
- TYPE I, AMBER
- TYPE II, WHITE

SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = ———
NEW = ———

DATUM

VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

10 0 10 m
1: 500
@ FULL SIZE

SIGNING AND STRIPING PLAN

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. SSP01.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. SSP-1 SHEET 41 OF 83

FILE NAME =u:\5116\vaot\contract6\ssp01.dgn
DATE/TIME =2/16/2004
USER =2225

646.414 DURABLE 150 mm WHITE LINE

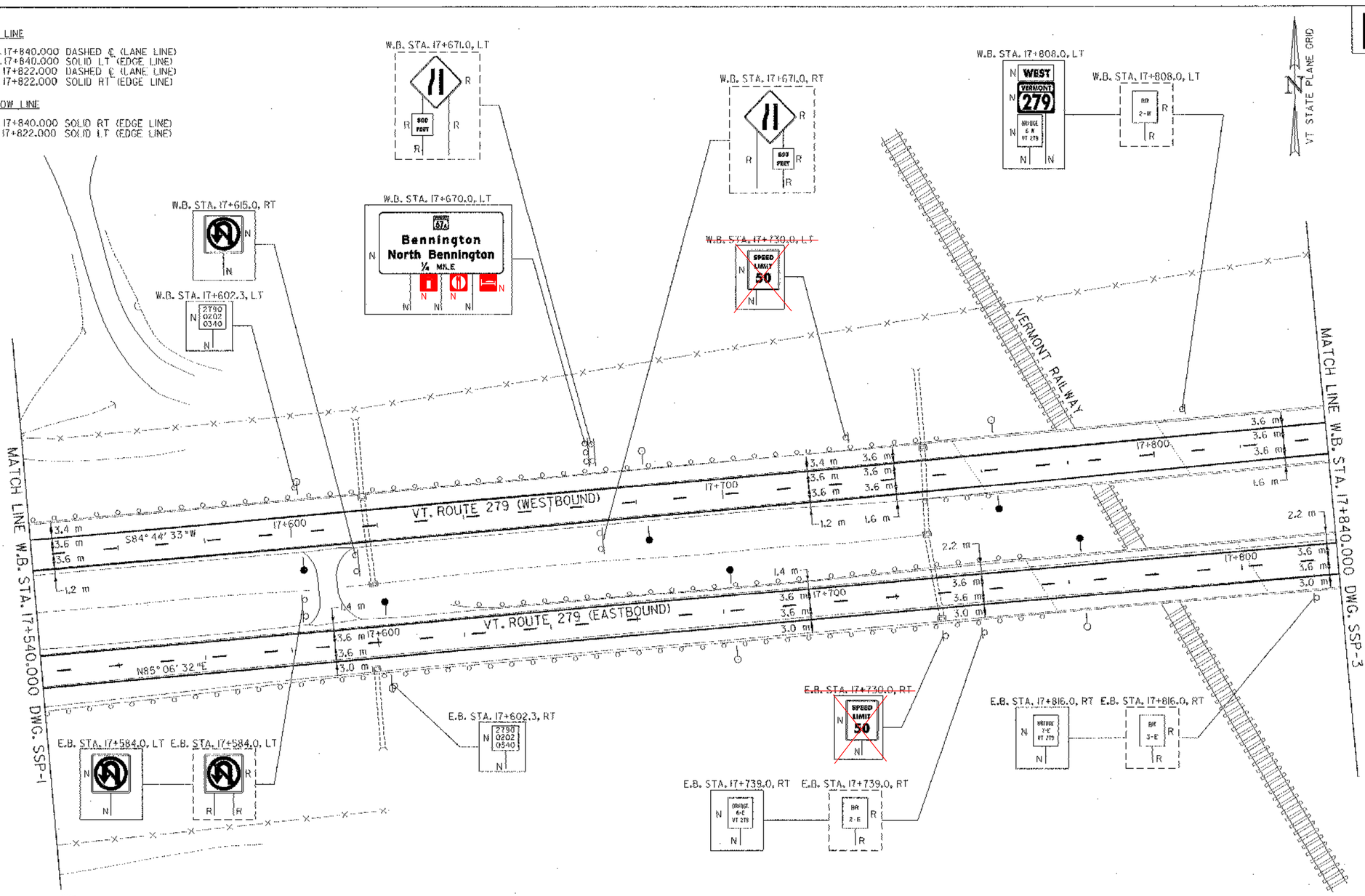
W.B. STA. 17+540.000 - W.B. STA. 17+840.000 DASHED ℄ (LANE LINE)
W.B. STA. 17+540.000 - W.B. STA. 17+840.000 SOLID LT (EDGE LINE)
E.B. STA. 17+522.100 - E.B. STA. 17+822.000 DASHED ℄ (LANE LINE)
E.B. STA. 17+522.100 - E.B. STA. 17+822.000 SOLID RT (EDGE LINE)

646.415 DURABLE 150 mm YELLOW LINE

W.B. STA. 17+540.000 - W.B. STA. 17+840.000 SOLID RT (EDGE LINE)
E.B. STA. 17+522.100 - E.B. STA. 17+822.000 SOLID LT (EDGE LINE)

675.50 REMOVING SIGNS

AS SHOWN - R



SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = — — — —
NEW = ————

676.40 DELINEATORS W/STEEL POSTS

TYPE I, WHITE	TYPE I, AMBER
W.B. STA. 17+602.3 LT	W.B. STA. 17+602.3 RT
W.B. STA. 17+682.3 LT	W.B. STA. 17+682.3 RT
W.B. STA. 17+763.3 LT	W.B. STA. 17+763.3 RT
E.B. STA. 17+602.3 RT	E.B. STA. 17+602.3 LT
E.B. STA. 17+682.3 RT	E.B. STA. 17+682.3 LT
E.B. STA. 17+763.3 RT	E.B. STA. 17+763.3 LT

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

LEGEND

- ● — TYPE I, WHITE
- ○ — TYPE I, AMBER
- ○○ — TYPE II, WHITE

10 0 10 m
1: 500
@ FULL SIZE

SIGNING AND STRIPING PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/03
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.G.	DATE 2/04

DESIGN FILE NO. SSP02.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.J. 01460 C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. SSP-2 SHEET 12 OF 83

FILE NAME =u:\E116\vaot\contracts6\ssp02.dgn
DATE/TIME = 2/16/2004
USER = 2225

646.414 DURABLE 150 mm WHITE LINE

W.B. STA. 17+840.000	-	W.B. STA. 17+938.000	DASHED ℄ (LANE LINE)
W.B. STA. 17+840.000	-	W.B. STA. 17+941.584	SOLID LT (EDGE LINE)
W.B. STA. 17+982.000	-	W.B. STA. 18+000.000	SOLID LT (EDGE LINE)
E.B. STA. 17+822.000	-	E.B. STA. 17+860.000	DASHED ℄ (LANE LINE)
E.B. STA. 17+822.000	-	E.B. STA. 17+911.200	SOLID RT (EDGE LINE)
E.B. STA. 17+987.900	-	E.B. STA. 18+000.000	SOLID RT (EDGE LINE)
STA. E2+320.000	-	STA. E2+471.417	SOLID RT (EDGE LINE)
STA. F2+000.000	-	STA. F2+100.000	SOLID RT (EDGE LINE)

646.415 DURABLE 150 mm YELLOW LINE

W.B. STA. 17+840.000	-	W.B. STA. 18+000.000	SOLID RT (EDGE LINE)
E.B. STA. 17+822.000	-	E.B. STA. 18+000.000	SOLID LT (EDGE LINE)
STA. E2+320.000	-	STA. E2+434.500	SOLID LT (EDGE LINE)
STA. F2+076.100	-	STA. F2+100.000	SOLID LT (EDGE LINE)

646.44 DURABLE 300 mm WHITE LINE

W.B. STA. 17+938.000	-	W.B. STA. 17+982.000	SOLID ℄ (GORE LINE)
E.B. STA. 17+860.000	-	E.B. STA. 17+987.900	SOLID ℄ (GORE LINE)
E.B. STA. 17+950.000	-	E.B. STA. 17+987.900	DIAGONALS RT (GORE AREA)
STA. E2+434.500	-	STA. E2+461.000	SOLID LT (GORE LINE)
STA. F2+000.000	-	STA. F2+075.600	SOLID LT (GORE LINE)

675.50 REMOVING SIGNS

AS SHOWN - 9

E.B. STA. 17+924.0, LT — WEST 67A R R

E.B. STA. 17+916.0, LT — BRIDGE T-W VT 279 / 2730 0202 0360 N N

E.B. STA. 17+916.0, LT — BR 3-W R R

END BENNINGTON-HOOSICK D.P.J. 01460 C/6
W.B. STA. 18+000.000

STA. E2+355.0, RT — YIELD R R

MATCH LINE STA. E2+320.000 DWG. SSP-4

STA. E2+434.1, RT — N N

END RAMP E
STA. E2+471.417 =
W.B. STA. 17+941.584

END BENNINGTON-HOOSICK D.P.J. 01460 C/6
END LT LANE WIDENING
E.B. STA. 18+000.000

END RAMP F
STA. F2+100.000

W.B. STA. 18+200.0, LT — N N

HISTORIC VT. ROUTE 7A

MATCH LINE W.B. STA. 17+840.000 DWG. SSP-2

RAMP E

VT. ROUTE 279 (WESTBOUND)

VT. ROUTE 279 (EASTBOUND)

W.B. STA. 17+972.9, RT — ONE WAY N N N

TO U.S. ROUTE 7 NORTHBOUND

RAMP F

TO U.S. ROUTE 7 SOUTHBOUND

STA. F2+055.0, RT — RAMP 35 M.P.H. N

STA. F2+055.0, RT — RAMP 35 M.P.H. R

STA. F2+097.0, RT — R TO R SOUTH R 7 R

STA. F2+097.0, RT — TO SOUTH 7 N

E.B. STA. 17+903.0, (O/H SIGN)

RET — 7 NORTH Manchester Rutland — 7 SOUTH Bennington — RET

BENNINGTON DOWNTOWN OVERLAY PANEL

ORCHARD ROAD

BEGIN RAMP F
STA. F2+000.000 =
E.B. STA. 17+911.209

676.10 DELINEATORS W/STEEL POSTS

TYPE I, WHITE	TYPE I, AMBER	TYPE II, WHITE
STA. E2+337.0 RT	W.B. STA. 17+930.0 RT	W.B. STA. 17+900.0 LT
STA. E2+357.0 RT	E.B. STA. 17+924.3 LT	W.B. STA. 17+930.0 LT
STA. E2+377.0 RT	STA. E2+337.0 LT	E.B. STA. 17+860.0 RT
STA. E2+397.0 RT	STA. E2+357.0 LT	E.B. STA. 17+890.0 RT
STA. F2+091.8 RT	STA. E2+377.0 LT	STA. E2+417.0 RT
	STA. E2+397.0 LT	STA. E2+463.0 RT
	STA. E2+417.0 LT	STA. F2+008.8 RT
		STA. F2+038.8 RT
		STA. F2+068.8 RT

E.B. STA. 17+997.0, RT — N N

E.B. STA. 17+997.0, RT — R R

10 0 10 m
1: 500
@ FULL SIZE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = — — — —
NEW = ————

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

LEGEND
TYPE I, WHITE
TYPE I, AMBER
TYPE II, WHITE

SIGNING AND STRIPING PLAN

SURVEYED BY	C.H.A. & V.S.E.	DATE 12/93
DESIGNED BY	D.W.E.	DATE 2/04
DRAWN BY	C.A.K.	DATE 2/04
CHECKED BY	D.E.C.	DATE 2/04

DESIGN FILE NO. SSP03.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.J. 01460 C/6

PROJ. NO. P.J.N. I306.60

DWG NO. SSP-3 SHEET 43 OF 83

FILE NAME =u:\S16\west\contract6\ssp03.dgn
DATE/TIME = 2/16/2004
USER = 22225

Metric

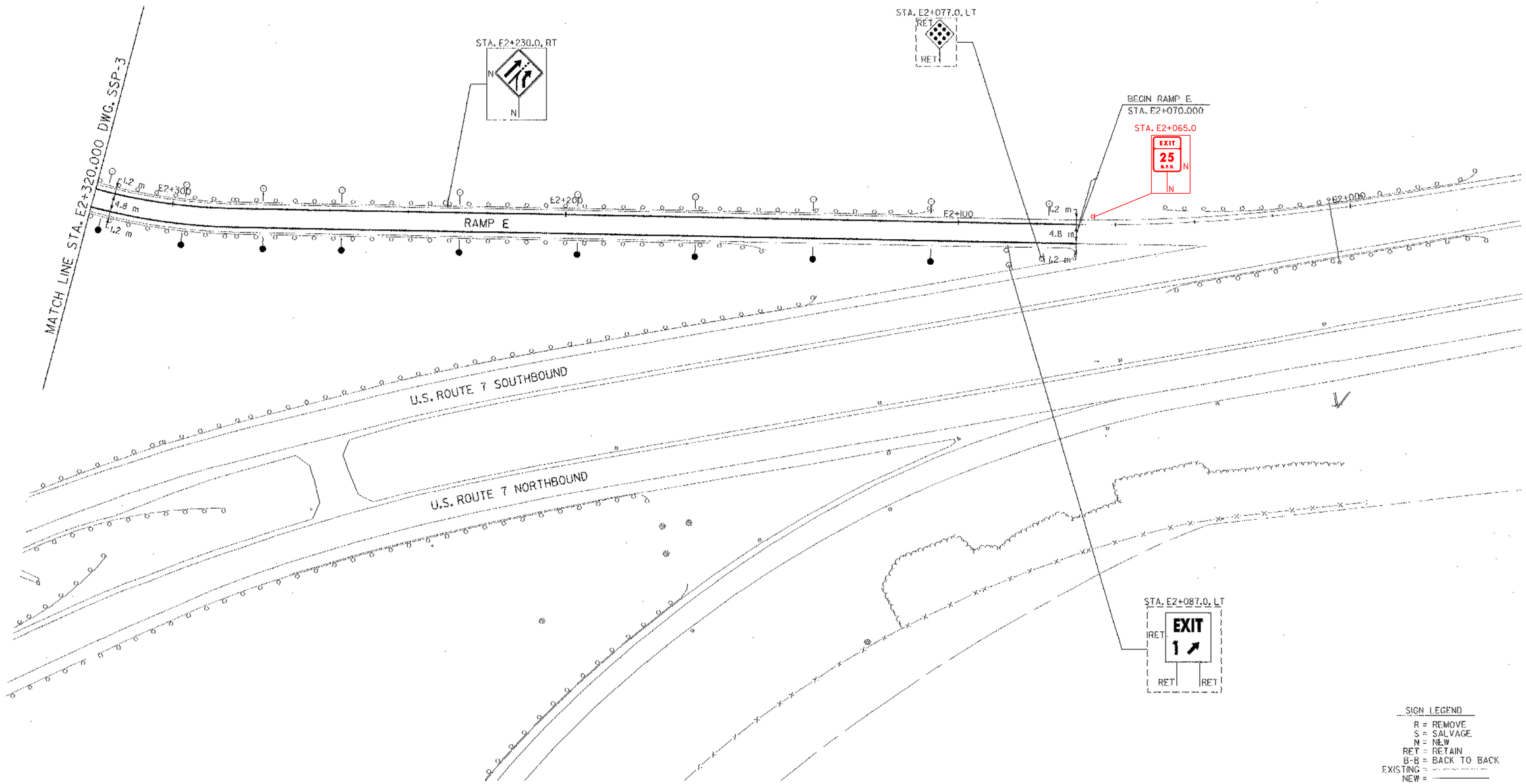
646.414 DURABLE 150 mm WHITE LINE

STA. E2+070.000 - STA. E2+320.000 SOLID RT (EDGE LINE)

646.415 DURABLE 150 mm YELLOW LINE

STA. E2+070.000 - STA. E2+320.000 SOLID LT (EDGE LINE)

VT STATE PLANE GRID



SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = ——
NEW = ——

676.10 DELINEATORS W/STEEL POSTS

TYPE I, WHITE	TYPE I, AMBER
STA. E2+077.0 RT	STA. E2+107.0 LT
STA. E2+107.0 RT	STA. E2+137.0 LT
STA. E2+137.0 RT	STA. E2+167.0 LT
STA. E2+167.0 RT	STA. E2+197.0 LT
STA. E2+197.0 RT	STA. E2+227.0 LT
STA. E2+227.0 RT	STA. E2+257.0 LT
STA. E2+257.0 RT	STA. E2+277.0 LT
STA. E2+277.0 RT	STA. E2+297.0 LT
STA. E2+297.0 RT	STA. E2+317.0 LT
STA. E2+317.0 RT	

LEGEND

- TYPE I, WHITE
- TYPE I, AMBER
- TYPE II, WHITE

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (1992)

10 0 10 m

1: 500
@ FULL SIZE

SIGNING AND STRIPING PLAN

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.C. DATE 2/04

DESIGN FILE NO. SSP04.DGN

PROJ. NAME BENNINGTON - ROOSICK
D.P.I. 0468 C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. SSP-4 SHEET 44 OF 83

FILE NAME =u:\5116\vapt\contract6\ssp04.dgn
DATE/TIME =2/16/2004
USER =2225

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

Metric

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 4.7	3.0	4.5	SQUARE STEEL (mm) Kg/m 44 2.8	50 3.2	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm) kg/m 75 1.9	100 2.5	100 MOD 2.5	TUBULAR STEEL Ø (mm) FOUNDATION	75 11.3	89 13.4	100 16.1	125 21.7	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
VT. ROUTE 279 D.P.J. 0146(1) C/3 14+118.0. RT	BRIDGE 1 VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-7011		E-134M
X10+040 RT OH	VERMONT 279 TO 7 BENNINGTON DOWNTOWN MANCHESTER	1	5500	3900		21.65																												INSTALLED ON EXISTING SUPPORTS	SECTION 7	
14+187.0, LT	BRIDGE 1 VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-7011		E-134M
14+851.0. RT	BRIDGE 2 VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-7011		E-134M
14+920.0, LT	BRIDGE 2 VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-7011		E-134M
15+152.0, RT	BRIDGE 3 VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-7011		E-134M
15+192.0, LT	BRIDGE 3 VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-7011		E-134M
15+930.0, RT	Bennington College NEXT RIGHT	1	5400	2700		14.58					2																			2		346.8	W200x26.6		FUSE PLATE BOLT TENSION TO BE SET AT 90 kN	TSD-1	
VT. ROUTE 279 D.P.J. 0146(1) C/4 16+767.0, RT	BRIDGE 4 VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-7011		E-134M
Y10+024.0, LT	BRIDGE 4 VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-7011		E-134M
												m	m	m	m 13.6	m	m		EA	kg	kg	kg		kg	kg	kg	kg								
TOTALS			m^2 0.24	m^2 14.58	EA.	m^2						m			m 13.6					kg			EA.	kg				EA. 2	EA.	kg 346.8					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

PROJECT: BENNINGTON - HOOSICK	PROJECT NO.: D.P.J. 0146(1) C/6
DESIGN FILE NAME: TSSSO1.DGN	
IPARM FILE NAME: N/A	
SURVEYED BY: N/A	PLOT DATE: 2/04
SQUAD LEADER: T.P.K.	SURVEY DATE: N/A
DWG. NO. TSS-1	DRAWN BY: C.A.K.
	SHEET: 45 OF 83

FILE NAME =u:\5116\VADT\CONTRACTS\TSSSO1.dgn
DATE/TIME = 2/16/2004
USER = 2225

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

Metric

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	NEW & SALVAGED SIGNS: EA	SIGN DIMENSIONS: WIDTH (mm)	SIGN DIMENSIONS: HEIGHT (mm)	"A"	"B"	SALV SIGN	SALV TIS	EXIST POST: RETAIN	EXIST POST: SALVAGE	NEW SIGN POSTS: NO. OF POSTS	FLANGED CHANNEL kg/m: 1.7	FLANGED CHANNEL kg/m: 3.0	FLANGED CHANNEL kg/m: 4.5	SQUARE STEEL (mm): 44 kg/m 2.8	SQUARE STEEL (mm): 50 kg/m 3.2	SQUARE STEEL (mm): 63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm): 75 kg/m 1.9	TUBULAR ALUMINUM Ø (mm): 100 kg/m 2.5	TUBULAR ALUMINUM Ø (mm): 100 MOD kg/m 2.5	TUBULAR STEEL FOUNDATION	TUBULAR STEEL Ø (mm): 75 kg/m 11.3	TUBULAR STEEL Ø (mm): 89 kg/m 13.4	TUBULAR STEEL Ø (mm): 100 kg/m 16.1	TUBULAR STEEL Ø (mm): 125 kg/m 21.7	W-SHAPE STEEL FTG. SIZE: 600 mm	W-SHAPE STEEL FTG. SIZE: 750 mm	W-SHAPE STEEL MASS	W-SHAPE STEEL POST SIZE	SIGN REMOVED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	SIGN DETAIL: STD. SHEET NUMBER
VT. ROUTE 279 WESTBOUND: 17+379.0, LT	BRIDGE 5-Y VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-7010		E-134M
17+430.0, LT	EXIT 25 M.P.H.	1	900	1200	1.08						2					X		X																ESIGN ID CODE W13-2] REMOVE FLASHING BEACONS AND INSTALL ON NEW POSTS		E-150M
17+530.3, LT	Bennington North Bennington EXIT ONLY	1	7200	4800		34.56																												OVERHEAD SIGN TO BE MOUNTED ON NEW STEEL CANTILEVER SIGN STRUCTURE	TSD-1	
17+602.3, LT	2790 0202 0340	1	150	250	0.04						1				X			X																ESIGN ID CODE VD-7001		E-138M
17+615.0, RT		1	900	900	0.81						1						X	X																		E-143M
17+670.0 LT		1	600	600	0.36																														SECTION 3	
17+670.0, LT	Bennington North Bennington ½ MILE	1	7200	4500		32.40					3																					3	1188.2	W310x44.5	FUSE PLATE BOLT TENSION TO BE SET AT 146 kN	TSD-1	
17+670.0 LT		1	600	600	0.36																														SECTION 3	
~~17+730.0, LT~~	~~SPEED LIMIT 50~~	~~1~~	~~900~~	~~1200~~	~~1.08~~						~~1~~										~~10.5~~													ESIGN ID CODE R2-1] INSTALLED, LATER REMOVED		E-142M
17+670.0 LT		1	600	600	0.36																														SECTION 3	
17+808.0, LT	WEST	1	750	375	0.28						2						X	X																ESIGN ID CODE M3-2]		E-136BM
	VERMONT 279	1	1125	900	1.01																													ESIGN ID CODE M8-5]		E-136BM
	BRIDGE 5-Y VT 279	1	150	200	0.03																													ESIGN ID CODE VD-7001		E-134M
												m	m	m	m 3.4	m 11.1	m 16.2	EA		kg 10.5	kg	kg		kg	kg	kg	kg							
TOTALS					m^2 4.36	m^2 66.96	EA.	m^2				m			m 30.7						kg 10.5			EA.	kg				EA.	EA. 3	kg 1188.2				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

PROJECT: BENNINGTON - HOOSICK
PROJECT NO.: D.P.I. 0146(1) C/6
DESIGN FILE NAME: TSSSOI.DGN
IPARM FILE NAME: N/A
SURVEYED BY: N/A
SQUAD LEADER: T.P.K.
DWG. NO. TSS-2
PLOT DATE: 2/04
SURVEY DATE: N/A
DRAWN BY: C.A.K.
SHEET: 46 OF 83

FILE NAME =u:\5i16\vaos\contract6\tss01.dgn
DATE/TIME = 2/18/2004 USER = CAK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MAST Metric

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 2.8	50 3.2	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm) kg/m 75 1.9	100 2.5	100 MOD 2.5	TUBULAR STEEL Ø (mm) FOUNDATION	75 11.3	89 13.4	100 16.1	125 21.7	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
VT. ROUTE 279 WESTBOUND: 17+916.0, LT	BRIDGE 14'-4" VT 279	1	150	200	0.03						1				X			X																ESIGN ID CODE VD-701		E-134M
	279 0202 0360	1	150	250	0.04																												ESIGN ID CODE VD-700		E-138M
17+972.9, RT	ONE WAY	1	900	300	0.27						2					X		X																ESIGN ID CODE R6-1R1		E-142M
18+200.0, LT		1	1200	1200	1.44						2						X	X															ESIGN ID CODE W4-3		E-155M
AB 10+140 LT	← BENNINGTON COLLEGE 1	1	1800	250	0.45																												INSTALLED ON EXISTING POSTS	SECTION 15	
CD 10+130 LT	← BENNINGTON COLLEGE 1	1	1800	250	0.45																												INSTALLED ON EXISTING POSTS	SECTION 15	
AB 10+140 LT	←	2	100	120																													SHEET ALUMINUM FOR OVERLAY	SECTION 14	
CD 10+130 LT	←	2	100	120																													SHEET ALUMINUM FOR OVERLAY	SECTION 14	
17+903 OH	BENNINGTON DOWNTOWN	1	4050	750																													SHEET ALUMINUM FOR OVERLAY	SECTION 10	
61+201.4	VERMONT 279 WEST TROY ↗	1	3600	1950		7.02																											SB ON 67A @ 279 WB ON RAMP INSTALLED ON EXISTING SUPPORTS	SECTION 6	
US 7 NB @ NORTHSIDE DR	VERMONT 279	1	900	1250																													OVERHEAD SIGN SHEET ALUMINUM FOR OVERLAY	SECTION 11	
US 7 NB @ VT 279	VERMONT 279	1	900	1250																													OVERHEAD SIGN SHEET ALUMINUM FOR OVERLAY	SECTION 12	
US 7 SB @ EXIT 10H	VERMONT 279	1	900	1250																													OVERHEAD SIGN SHEET ALUMINUM FOR OVERLAY	SECTION 13	
US 7 SB JUST NORTH OF EXIT 1	VERMONT 279	1	900	1250																													(TO VT 279 NEXT EXIT) SIGN SHEET ALUMINUM FOR OVERLAY	SECTION 9	
US 7 SB JUST NORTH OF EXIT 1	NEXT EXIT	1	2750	460																													(TO VT 279 NEXT EXIT) SIGN SHEET ALUMINUM FOR OVERLAY	SECTION 9	
												m	m	m	m 1.7	m 8.0	m 12.6		EA	kg	kg	kg		kg	kg	kg	kg								
												m			m 22.3					kg			EA.	kg				EA.	EA.	kg					
					m² 1.78	m²	EA.	m²																														

TOTALS

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

PROJECT: BENNINGTON - HOOSICK

PROJECT NO.: D.P.J. 0146(1) C/6

DESIGN FILE NAME: TSSS01.DGN
#PARM FILE NAME: N/A
SURVEYED BY: N/A
SQUAD LEADER: T.P.K.
DWG. NO. TSS-3

PLOT DATE: 2/04
SURVEY DATE: N/A
DRAWN BY: C.A.K.
SHEET: 47 OF 83

FILE NAME = u:\SIGS\VAOT\CONTRACT6\TSSS01.dgn
DATE/TIME = 2/16/2024
USER = 2229

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

Metric

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	NEW & SALVAGED SIGNS: EA	SIGN DIMENSIONS: WIDTH (mm)	SIGN DIMENSIONS: HEIGHT (mm)	NEW & SALVAGED SIGNS: "A"	NEW & SALVAGED SIGNS: "B"	NEW & SALVAGED SIGNS: SALV SIGN	NEW & SALVAGED SIGNS: SALV TIS	EXIST POST: RETAIN	EXIST POST: SALVAGE	NEW SIGN POSTS: NO. OF POSTS	FLANGED CHANNEL kg/m: 1.7	FLANGED CHANNEL kg/m: 3.0	FLANGED CHANNEL kg/m: 4.5	SQUARE STEEL (mm): 44 kg/m 2.8	SQUARE STEEL (mm): 50 kg/m 3.2	SQUARE STEEL (mm): 63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm): 75 kg/m 1.9	TUBULAR ALUMINUM Ø (mm): 100 kg/m 2.5	TUBULAR ALUMINUM Ø (mm): 100 MOD kg/m 2.5	TUBULAR STEEL Ø (mm): FOUNDATION	TUBULAR STEEL Ø (mm): 75 kg/m 11.3	TUBULAR STEEL Ø (mm): 89 kg/m 13.4	TUBULAR STEEL Ø (mm): 100 kg/m 16.1	TUBULAR STEEL Ø (mm): 125 kg/m 21.7	W-SHAPE STEEL: FTG. SIZE 600 mm	W-SHAPE STEEL: FTG. SIZE 750 mm	W-SHAPE STEEL: MASS	W-SHAPE STEEL: POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	SIGN DETAIL: STD. SHEET NUMBER
VT. ROUTE 279 EASTBOUND: 17+305.0, RT	BRIDGE J-E VT 279	1	150	200	0.03						1				X			X																[SIGN ID CODE VD-701]		E-134M
17+450.0, RT	EMERGENCY STOPPING ONLY	1	750	600	0.45						1					X		X																[SIGN ID CODE R8-7]		E-142M
17+510.0, RT	EAST TO	1 1	750 750	375 375	0.28 0.28						2						X	X															X	[SIGN ID CODE M3-2] [SIGN ID CODE M4-5]		E-136BM E-136AM
	VERMONT 279 7	1 1	1125 900	900 900	1.01 0.81																												[SIGN ID CODE MI-5] [SIGN ID CODE MI-4]		E-136BM E-136AM
17+584.0, LT		1	900	900	0.81						1						X	X																[SIGN ID CODE R3-4]		E-143M
17+602.3, RT	2790 0202 0340	1	150	250	0.04						1				X			X																[SIGN ID CODE VD-700]		E-138M
17+730.0, RT	SPEED LIMIT 50	1	900	1200	1.08						~~1~~										~~10.5~~													[SIGN ID CODE R2-1] INSTALLED AND LATER REMOVED		E-142M
17+739.0, RT	BRIDGE J-E VT 279	1	150	200	0.03						1				X			X																[SIGN ID CODE VD-701]		E-134M
17+816.0, RT	BRIDGE J-E VT 279	1	150	200	0.03						1				X			X																[SIGN ID CODE VD-701]		E-134M
17+997.0, RT		1	900	900	0.81						2					X		X																[SIGN ID CODE WI2-1]		E-151M
												m	m	m	m 6.8	m 16.0	m 15.8	EA		kg 10.5	kg	kg		kg	kg	kg	kg								
TOTALS		m² 5.66	m²	EA.	m²							m			m 38.6					kg 10.5	EA.			kg				EA.	EA.	kg					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

PROJECT: BENNINGTON - HOOSICK	PROJECT NO.: D.P.I. 0146(1) C/6
DESIGN FILE NAME: TSSSOL.DGN	
XFORM FILE NAME: N/A	PLOT DATE: 2/04
SURVEYED BY: N/A	SURVEY DATE: N/A
SQUAD LEADER: T.P.K.	DRAWN BY: C.A.K.
DWG. NO. TSS-4	SHEET: 48 OF 83

FILE NAME =u:\5116\VAOT\CONTRACTS\TSSS01.dgn
DATE/TIME =2/18/2004
USER =2225

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

Metric

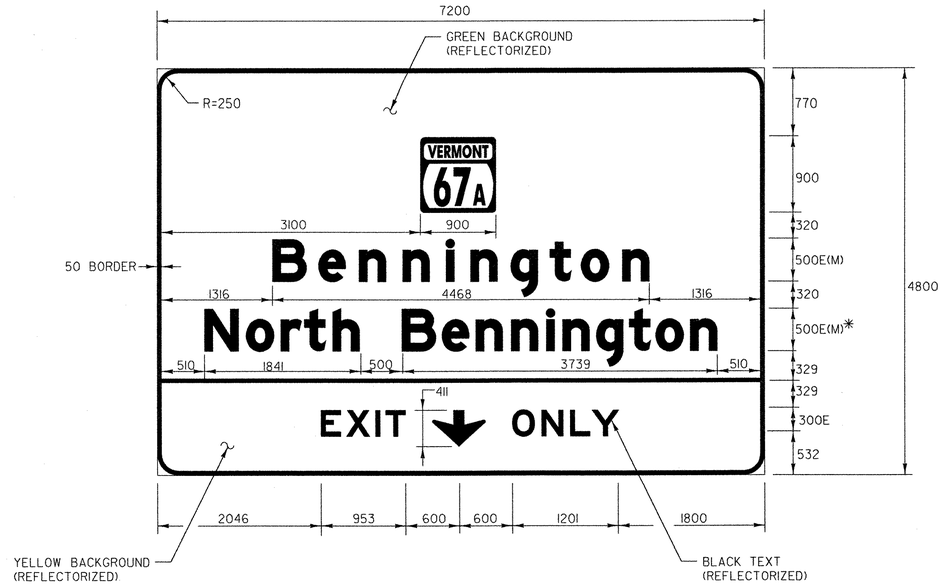
KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 4.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 2.8	50 3.2	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm) kg/m 75 4.9	100 2.5	100 MOD 2.5	TUBULAR STEEL FOUNDATION	Ø (mm) kg/m 75 11.3	89 13.4	100 16.3	125 21.7	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN TO BE REMOVED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
RAMPS: E2+230.0 RT		1	1200	1200	1.44						2					X		X															[SIGN ID CODE W4-6]	TSD-1	
E2+434.4, RT		1	900	900	0.81						1						X	X															[SIGN ID CODE R3-2]		E-143M
E2+065.0		1	900	1200	1.08						1									4.38														SECTION 21	
E2+055.0, RT		1	900	1200	1.08						1									10.5														[SIGN ID CODE W13-2]		E-150M
E2+097.0, RT		1	750	375	0.28						1						X	X															[SIGN ID CODE M4-5]		E-136AM
		1	750	375	0.28																												[SIGN ID CODE M3-3]		E-136AM
		1	900	900	0.81																												[SIGN ID CODE M1-4]		E-136AM
	SHEET SUBTOTAL DWG. NO. TSS-1 SUBTOTAL DWG. NO. TSS-2 SUBTOTAL DWG. NO. TSS-3 SUBTOTAL DWG. NO. TSS-4 SUBTOTAL				4.70 0.24 4.36 1.78 5.66	- 14.58 66.96 - -										- 13.6 3.4 1.7 6.8	11.6 - 11.1 8.0 16.0	9.7 - 16.2 12.6 15.8			10.5 - 10.5 - 10.5									- 2 - - -	- - 3 - -	- 346.8 188.2 - -					
RTE 7 NB & KOCHER DR		1	600	300	0.18																												INSTALLED ON EXISTING POSTS	SECTION 4	
		1	750	600	0.45																												INSTALLED ON EXISTING POSTS	SECTION 4	
WEIGH STATION GATE 12+800		2	1830	210	0.38																												INSTALLED ON EXISTING GATE	SECTION 20	
RTE 7 SB @ EXIT 1		1	6000	3750		22.5																											INSTALLED ON EXISTING SUPPORTS	SECTION 8	
		1	1890	750		1.42																													SECTION 8	
												m	m	m	m 25.5	m 46.7	m 54.3		EA	kg 31.5	kg	kg		kg	kg	kg	kg								
												m			m 126.5					kg 31.5			EA.	kg				EA. 2	EA. 3	kg 1535					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

TOTALS m^2 16.74 | m^2 81.54 | EA. | m^2

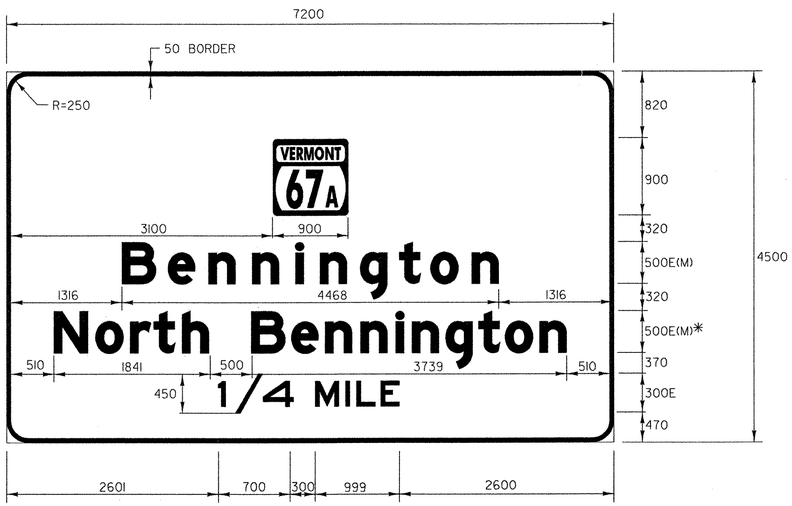
PROJECT: BENNINGTON - HOOSICK
PROJECT NO.: D.P.J. 0146(1) C/6
DESIGN FILE NAME: TSS501.DGN
IPARM FILE NAME: N/A
SURVEYED BY: N/A
SQUAD LEADER: T.P.K.
DWG. NO. TSS-5
PLOT DATE: 2/04
SURVEY DATE: N/A
DRAWN BY: C.A.K.
SHEET: 49 OF 83

FILE NAME = c:\5:16\VAGT\CONTRACT\TSS501.dgn
DATE/TIME = 2/16/2004
USER = 32225



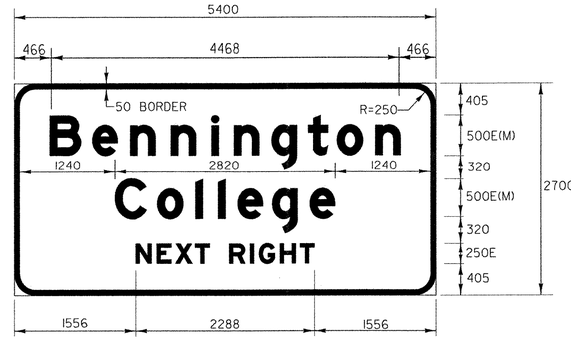
COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)
BLACK TEXT (REFLECTORIZED)
YELLOW BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-131M
*50% REDUCTION IN SPACING
SIGN - VT. ROUTE 279
W.B. STA. 17+530.3, LT



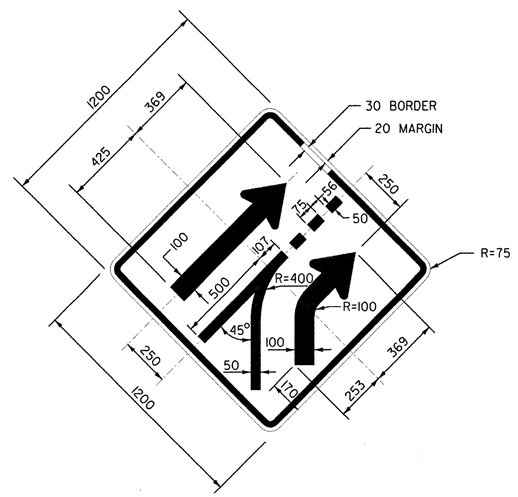
COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-131M
*50% REDUCTION IN SPACING
SIGN - VT. ROUTE 279
W.B. STA. 17+670.0, LT



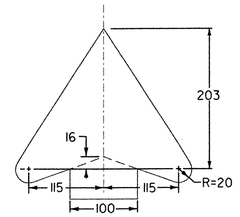
COLOR: WHITE BORDER & SYMBOL (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-131M
SIGN - VT ROUTE 279
STA. 15+390.0 RT



COLOR: BLACK BORDER & SYMBOL (REFLECTORIZED)
YELLOW BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-155M
SIGN - RAMP E
STA. E2+230.0 RT



STANDARD ARROW HEAD DETAIL

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. MINOR VARIATIONS IN TEXT DIMENSIONS ARE ACCEPTABLE BASED ON INDIVIDUAL MANUFACTURER'S LETTER FABRICATION. SIGNIFICANT CHANGES WHICH AFFECT SIGN APPEARANCE SHALL BE BROUGHT TO THE ATTENTION OF THE VAOT'S TRAFFIC OPERATIONS SECTION BEFORE FABRICATION.

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

TRAFFIC SIGN DETAIL SHEET

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

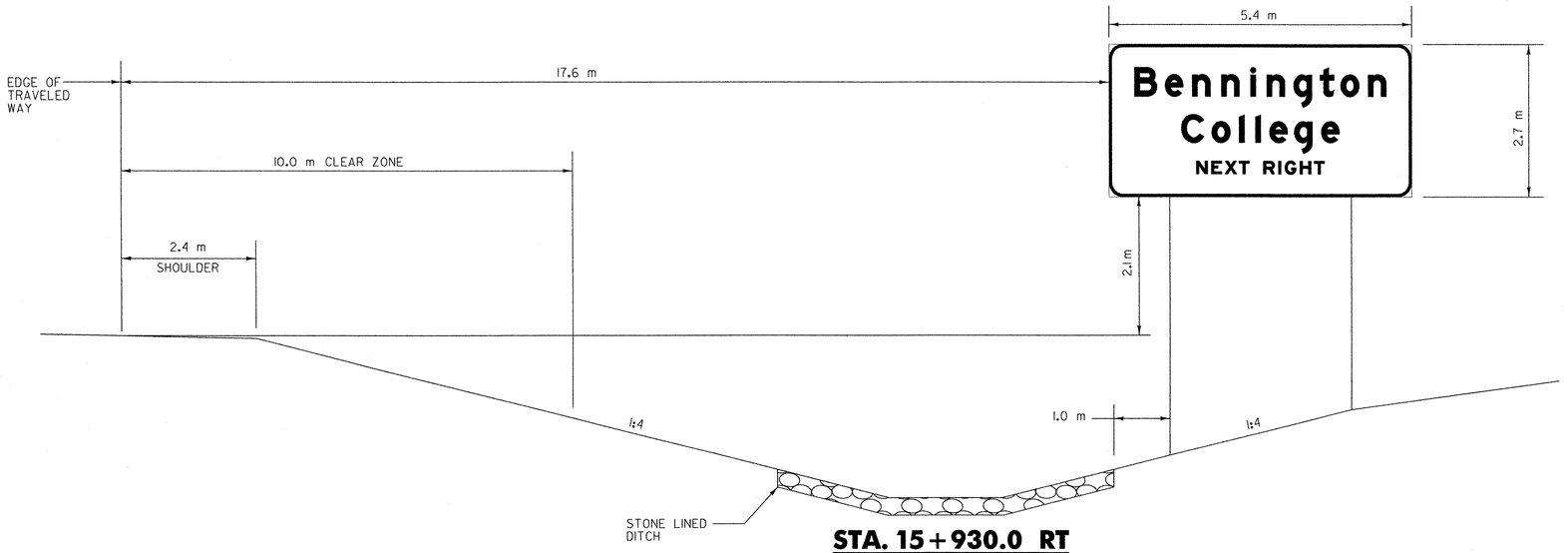
DESIGN FILE NO. TSD01.DGN

PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. TSD-1 SHEET 50 OF 83

FILE NAME =u:\5116\vaot\contract6\tsd01.dgn
DATE/TIME =2/16/2004
USER =2225

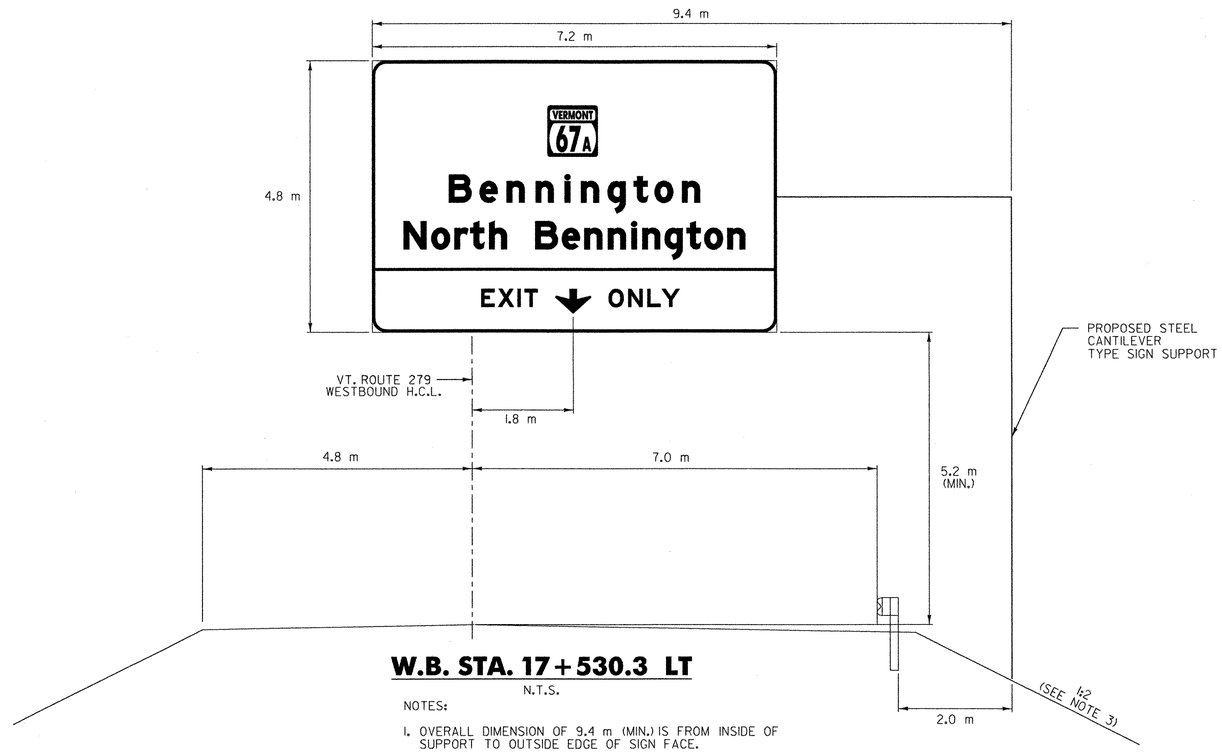


STA. 15+930.0 RT

N.T.S.

NOTE:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF THE PROPOSED SIGN.



W.B. STA. 17+530.3 LT

N.T.S.

NOTES:

1. OVERALL DIMENSION OF 9.4 m (MIN.) IS FROM INSIDE OF SUPPORT TO OUTSIDE EDGE OF SIGN FACE.
2. THIS STRUCTURE SHALL BE A STEEL CANTILEVER TYPE SIGN SUPPORT PAID FOR UNDER ITEM 677.12 OVERHEAD TRAFFIC SIGN SUPPORT, CANTILEVER.
3. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS TO ASSURE PROPER SUPPORT OF THE OVERHEAD SIGN STRUCTURE PRIOR TO FABRICATION.

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

FILE NAME =u:\5116\vaot\contract6\tsd02.dgn
DATE/TIME =2/16/2004
USER =2225

SIGN PLACEMENT DETAIL SHEET

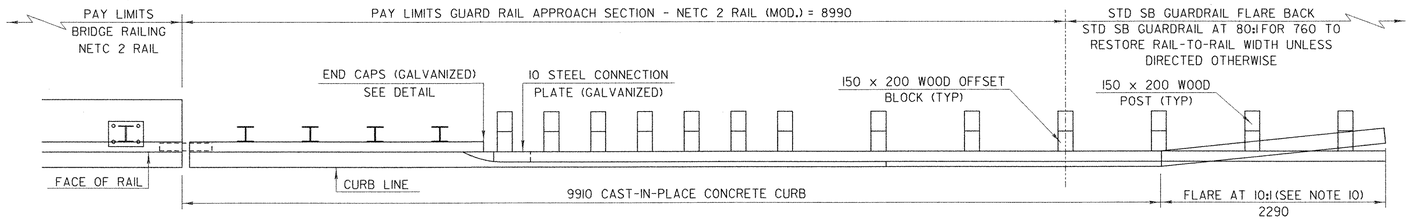
SURVEYED BY	C.H.A. & V.S.E.	DATE	12/93
DESIGNED BY	D.W.E.	DATE	2/04
DRAWN BY	C.A.K.	DATE	2/04
CHECKED BY	D.E.G.	DATE	2/04

DESIGN FILE NO. TSD02.DGN

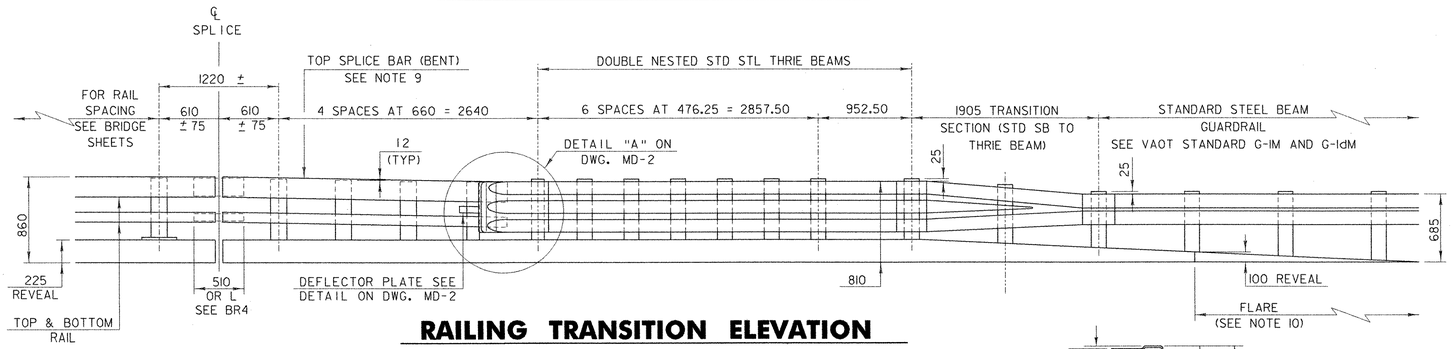
PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

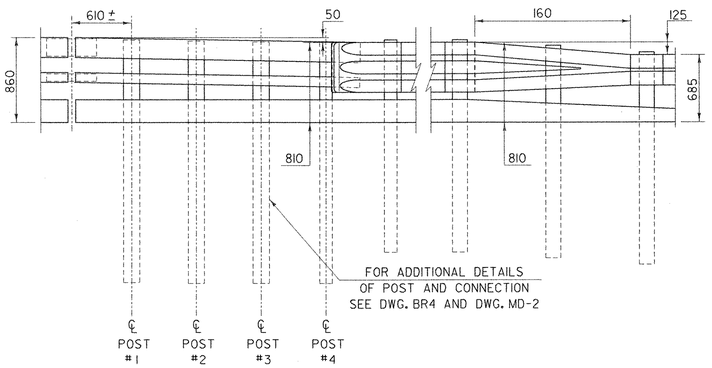
DWG NO. SPD-1 SHEET 51 OF 83



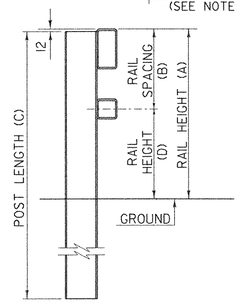
RAILING TRANSITION PLAN



RAILING TRANSITION ELEVATION



ELEVATION

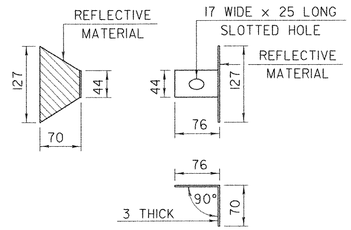


TYPICAL SECTION

POST NUMBER	RAIL HEIGHT (A)	RAIL SPACING (B)	POST LENGTH (C)	RAIL HEIGHT (D)
1	850	400	2440	450
2	840	395	2440	445
3	825	385	2440	440
4	810	375	2440	435

NOTES

1. REFER TO SHEET BR4 FOR ADDITIONAL DETAILS, NOTES AND MATERIAL SPECIFICATIONS.
2. PAYMENT FOR GUARDRAIL APPROACH SECTION - NETC 2 RAIL (MOD.) SHALL INCLUDE THE TERMINAL CONNECTOR, THE CONNECTION PLATE, THE DEFLECTOR PLATE, RAIL, POSTS, BLOCKS AND ATTACHMENT HARDWARE.
3. THE REFLECTORIZED ALUMINUM DELINEATION IS TO BE ERECTED EVERY 9m (OR CLOSEST POST) WITH A M16 BOLT. DELINEATORS SHALL MEET SPECIFICATION REQUIREMENTS FOR ASTM B209 ALLOY 5052-H32.
4. REFLECTIVE MATERIAL SHALL MEET REQUIREMENTS OF SUBSECTION 750.08 AND SHALL BE OF ENCAPSULATED LENS SILVER OR AMBER. AMBER IS TO BE INSTALLED ON THE DRIVER'S LEFT AND SILVER ON THEIR RIGHT.
5. ALL APPROACH RAIL SPLICES SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW.
6. ALL BRIDGE APPROACH RAIL MATERIALS, DIMENSION SIZES AND NOTES SHALL BE THE SAME AS THOSE OF THE BRIDGE RAIL, UNLESS OTHERWISE NOTED.
7. APPROACH RAIL BOLTS SHALL BE ASTM F568M, CLASS 4.6 AND NUTS SHALL BE AASHTO M291M (ASTM A563M GRADE A OR BETTER) (GALVANIZED). STEEL WASHERS SHALL BE ASTM F844M.
8. WELD TOP SPLICE BAR TO FIT BEND. USE COMPLETE PENETRATION WELD (B-U2).
9. THE CONCRETE CURB WILL BE PAID FOR AS ITEM 616.28 CAST-IN-PLACE CONCRETE CURB, TYPE B.
10. ELIMINATE CONCRETE CURB FLARE AT LOCATIONS WHERE BITUMINOUS CONCRETE CURB, TYPE B EXTENDS BEYOND THE CAST-IN-PLACE CONCRETE CURB. SEE DWG. PDT-1 FOR CURB TRANSITION DETAILS.



DELINEATION DEVICE DETAILS

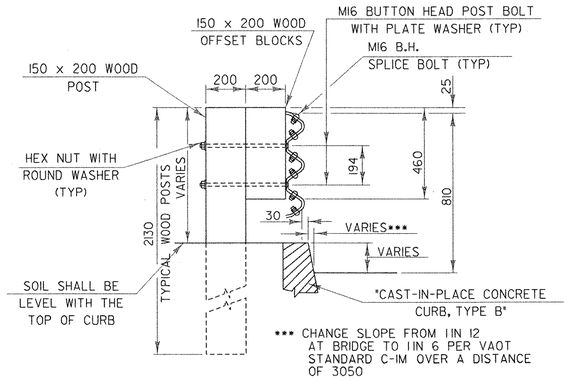
ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

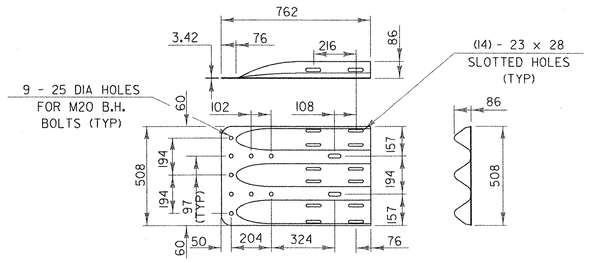
APPROACH RAIL N.E.T.C. 2 RAIL DETAIL SHEET

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04
DESIGN FILE NO. MD01.DGN
PROJ. NAME BENNINGTON - HOOSICK
D.P.I. 0146(1) C/6
PROJ. NO. P.I.N. 1306.60
DWG NO. MD-1 SHEET 52 OF 83

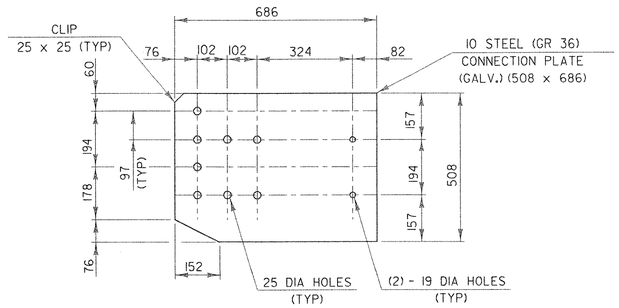
FILE NAME =u\5116\vaot\contract6\md01.dgn
DATE/TIME =2/16/2004
USER =2225



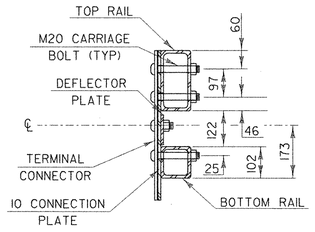
WOOD POST-RAIL ASSEMBLY



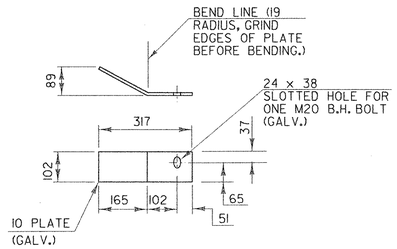
THRIE-BEAM TERMINAL CONNECTOR (HM-TF-13/RE-67)



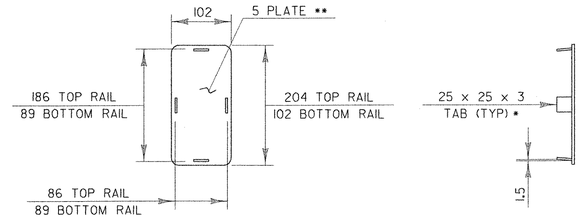
CONNECTION PLATE



SECTION C-C (CONNECTION PLATE)

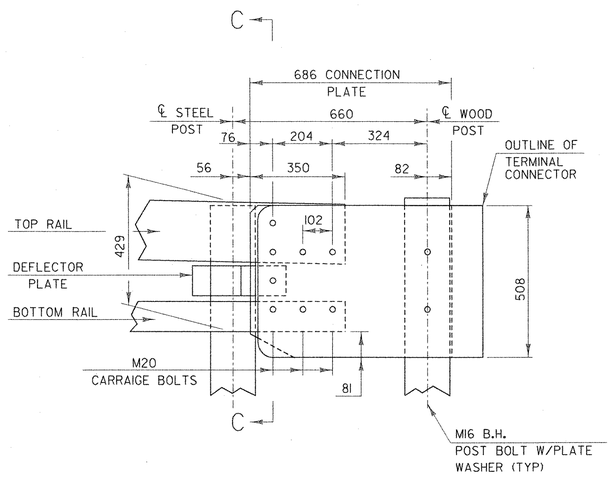


DEFLECTOR PLATE DETAIL

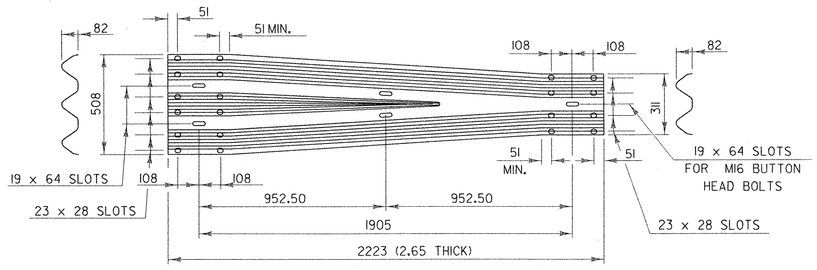


* WELD TABS TO END CAP PLATE IN TAPERED POSITION SO CAP CAN BE JAMMED INTO END OF RAIL TUBE.
** ROUND CORNERS 12 RADIUS (TYP)

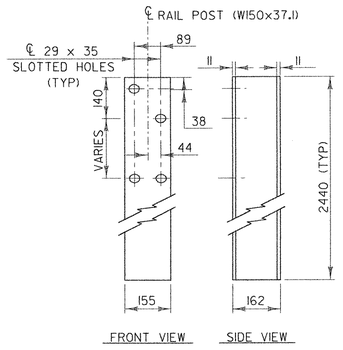
END CAP DETAIL



DETAIL A



THRIE-BEAM TO STD SB TRANSITION SECTION (HM-TF-13/RE-69)



RAIL POST

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

APPROACH RAIL N.E.T.C. 2 RAIL DETAIL SHEET

SURVEYED BY C.H.A. & V.S.E. DATE 12/93
DESIGNED BY D.W.E. DATE 2/04
DRAWN BY C.A.K. DATE 2/04
CHECKED BY D.E.G. DATE 2/04

DESIGN FILE NO. MD02.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.J. 0146(1) C/6

PROJ. NO. P.I.N. 1306.60

DWG NO. MD-2 SHEET 53 OF 83

FILE NAME =u:\5116\vaot\contract6\md02.dgn
DATE/TIME =2/16/2004
USER =2225

Metric

NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.

GENERAL NOTES:

1. THE FOLLOWING NOTES SHALL APPLY UNLESS OTHERWISE NOTED ON THE PLANS.
2. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION - 2001 AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS (17TH EDITION) FOR HIGHWAY BRIDGES, AND ITS LATEST REVISIONS.
3. ALL WELDING AND DIMENSIONAL TOLERANCES OF WELDED MEMBERS SHALL CONFORM TO THE LATEST ANSI/AASHTO/AWS WELDING CODE AND ITS LATEST REVISIONS.
4. MINIMUM COVER FOR REINFORCING STEEL IN SUBSTRUCTURE SHALL BE 50 mm ALONG BACK FACES OF WALLS AGAINST EARTH, AND 75 mm ELSEWHERE UNLESS NOTED OTHERWISE.
5. REINFORCEMENT PLACEMENT TOLERANCES SHALL BE:
   SPACING ±25 mm
   CLEARANCE +5 mm
6. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25 mm BY 25 mm.
7. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED 4%. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTH WITH FLOAT FINISH AS PER SUBSECTION 501.16.
8. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 20 DEGREES CELSIUS UNLESS OTHERWISE NOTED.
9. THE EXTENT OF SUPERSTRUCTURE AND SUBSTRUCTURE CONCRETE REPAIR, AND THE APPROPRIATE CONCRETE REPAIR ITEMS SHALL BE AS DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION. REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
10. IF A COLD PLANER IS USED TO STRIP PAVEMENT FROM THE APPROACH SLABS, CONCRETE PAVEMENT OR DECK, THE FINAL 12 mm SHALL BE REMOVED BY LOADER, GRADER OR EQUIPMENT APPROVED BY THE RESIDENT ENGINEER. THIS WORK SHALL ALL BE INCLUDED IN THE UNIT PRICE BID FOR "REMOVAL OF BRIDGE PAVEMENT". THE ENTIRE AREA OF APPROACH SLABS, CONCRETE PAVEMENT AND DECK SHALL BE STRIPPED TO BARE CONCRETE.
11. ALL DIMENSIONS OF EXISTING MATERIAL SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO START OF WORK.
12. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED NEW CONCRETE SURFACES.
13. SHOP DRAWINGS ARE TO BE SENT TO DALE GOZALKOWSKI AT CLOUGH, HARBOUR & ASSOCIATES, LLP AND TO JEFF CLARK OF THE STATE OF VERMONT AGENCY OF TRANSPORTATION FOR REVIEW.
14. THIS WORK WILL BE PERFORMED ABOVE A RAILROAD AND TWO ROADS, THE CONTRACTOR SHALL EXERCISE CARE TO AVOID DROPPING ANY MATERIALS ON THESE UNDER FEATURES.
15. EXISTING DECK WEEPS EXPOSED BY REMOVAL OF THE BRIDGE PAVEMENT SHALL HAVE ANY REMAINING ASPHALT CLEARED FROM THEIR OPENINGS. CARE SHALL BE TAKEN NOT TO COVER THE WEEPS WITH SHEET MEMBRANE WATERPROOFING AND THEIR ENDS SHALL BE FILLED WITH STEEL WOOL.

MEMBRANE INFORMATION:

1. BEFORE APPLYING THE SHEET MEMBRANE WATERPROOFING, THE EXISTING DECK SURFACE SHALL BE MADE SMOOTH TO THE SATISFACTION OF THE RESIDENT ENGINEER, USING ONE OR BOTH OF THE FOLLOWING METHODS:

   FILL IN ALL POCK MARKS, GOUGES OR OTHER DEPRESSIONS WITH "RAPID SETTING CONCRETE REPAIR MATERIAL", ITEM 580.17. CONTACT VERMONT AGENCY OF TRANSPORTATION MATERIALS SECTION TO OBTAIN A LIST OF ACCEPTABLE MATERIALS FOR "RAPID SETTING CONCRETE REPAIR MATERIAL". ANY RAPID SET CONCRETE USED SHALL BE INSTALLED BY THE METHOD AND TO THE LIMITS AS GIVEN BY THE MANUFACTURER AND AS DIRECTED BY THE RESIDENT ENGINEER.

   GRIND SMOOTH ALL ROUGH AREAS, RIDGES, OR OTHER HIGH SPOTS UNDER THE ITEM 580.16, "SURFACE PREPARATION FOR MEMBRANE".

2. THE MEMBRANE IS TO BE INSTALLED ACCORDING TO THE SPECIFICATIONS CALLED FOR UNDER ITEM 519.20, SHEET MEMBRANE WATERPROOFING (TORCH APPLIED) (MOD.).

NOTES CONCERNING PATCHING EXISTING CONCRETE DECKS:

1. DECK AREAS TO BE REPAIRED SHALL BE MARKED ON THE STRIPPED DECK BY VERMONT AGENCY OF TRANSPORTATION PERSONNEL. THE METHODS USED FOR DEFINING AREAS NEEDING REPAIR MAY BE VISUAL INSPECTION, THE CHAIN DRAG METHOD, HAMMER SOUNDING, HALF-CELL POTENTIAL, ETC. THE RESIDENT ENGINEER MAY ORDER ANY OR ALL OF THESE TESTING METHODS. THE CONTRACTOR SHALL EMPLOY QUALIFIED PERSONNEL TO PERFORM THE TESTS. PAYMENT FOR TESTING SHALL BE SUBSIDIARY TO THE "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE" ITEMS. ALL NECESSARY CLEANING OF THE DECK SURFACE PRIOR TO MARKING OF THE DECK REPAIR AREAS WILL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE RESIDENT ENGINEER. THIS WILL ALSO INCLUDE ADDITIONAL CLEANINGS AT OTHER TIMES AS THE WORK PROGRESSES. PAYMENT FOR CLEANING WILL BE CONSIDERED SUBSIDIARY TO ALL OTHER PAY ITEMS.
2. DECK SURFACE IS TO BE REPAIRED AS NECESSARY UNDER ITEMS 580.10, 580.11 OR 580.12, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS I, II OR III". ALL EDGES OF REPAIRED AREAS ARE TO BE SAW CUT SQUARE AND A MINIMUM OF 25 mm DEEP. "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE CLASS I" SHALL INCLUDE REMOVAL OF CONCRETE TO A MAXIMUM DEPTH AS DETERMINED BY THE TOP OF THE TOP BAR OF THE TOP MAT OF REINFORCING STEEL AND IS GENERALLY INTENDED FOR USE ONLY IN THOSE AREAS OF SURFACE SPALLING, APPROACH SLAB REPAIR, AND REPAIR UNDER CURB LINES AS LONG AS THE DEPTH LIMITS FOR CLASS I ARE NOT EXCEEDED.
3. FINAL DETERMINATION CONCERNING THE USAGE OF CLASS I CONCRETE, SHALL BE DETERMINED BY THE RESIDENT ENGINEER. IF MORE THAN ONE-QUARTER OF THE CIRCUMFERENCE OF THE TOP REBAR OF THE TOP MAT IS EXPOSED OR THE BOND BETWEEN THE CONCRETE AND REBAR IS BROKEN, THEN PROCEED TO ITEM 580.11, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS II".
4. THE LIMITS FOR REMOVAL OF CONCRETE UNDER THE ITEM "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE CLASS II" WILL BE FROM THE TOP OF THE EXISTING CONCRETE DECK TO A SURFACE FROM 19mm (± 6mm) MINIMUM DEPTH BELOW THE BOTTOM BAR OF THE TOP MAT OF REINFORCING STEEL TO A MAXIMUM DEPTH OF THE TOP OF THE TOP BAR OF THE BOTTOM MAT OF REINFORCING STEEL. IF MORE THAN ONE-QUARTER OF THE CIRCUMFERENCE OF THE TOP REBAR OF THE BOTTOM MAT IS EXPOSED OR THE BOND BETWEEN THE CONCRETE AND REBAR IS BROKEN, THEN PROCEED TO ITEM 580.12 "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS III".
5. THE LIMITS FOR REMOVAL OF CONCRETE UNDER THE ITEM "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE CLASS III" WILL BE FROM THE TOP OF EXISTING CONCRETE DECK TO THE BOTTOM OF THE CONCRETE (FULL DEPTH REMOVAL). ANY FULL DEPTH REPAIRS SHALL NECESSITATE THE USE OF FORMS AND FALSEWORK. ALL FORMWORK, "CONCRETE, CLASS AA", FALSEWORK, LABOR, TOOLS, EQUIPMENT, AND OTHER INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 580.12, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS III".
6. DETERMINATION FOR PAYMENT OF ITEMS 580.10, 580.11 OR 580.12 WILL BE FROM THE TOP OF THE EXISTING CONCRETE DECK TO A SOUND CONCRETE SURFACE (AS DETERMINED BY THE RESIDENT ENGINEER) OR TO THE BOTTOM OF SAID CONCRETE DECK AS APPLICABLE. SEE SECTION 580.09 IN THE SUPPLEMENTAL SPECIFICATIONS.
7. THE DECK TO BE PATCHED AND EXPOSED STEEL WHICH WILL HAVE CONCRETE PLACED AGAINST OR AROUND IT (E.G. METAL PLATE EXPANSION JOINTS, SCUPPERS, REINFORCING STEEL, ETC.) SHALL BE SANDBLASTED A MAXIMUM OF 24 HOURS PRIOR TO PLACING THE NEW CONCRETE. THE AREA SHALL BE VACUUMED OR FLUSHED, USING HIGH PRESSURE AIR OR WATER TO REMOVE ALL LOOSE PARTICLES, DUST AND DEBRIS. AFTER SANDBLASTING, ONCE THE CONCRETE IS WET, WHETHER FROM FLUSHING OR RAIN, THE CONCRETE MUST BE KEPT WET UNTIL THE PLACING OF NEAT CEMENT PASTE AND CONCRETE. IF THE CONCRETE IS ALLOWED TO DRY OUT, THE AREA MUST BE SANDBLASTED AGAIN AND THE ENTIRE AREA VACUUMED OR FLUSHED AGAIN. THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR ITEMS 580.10, 580.11 OR 580.12, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS I, II OR III". ALL SURFACES OF METAL DECK JOINTS, WHICH ARE TO HAVE CONCRETE PLACED AGAINST THEM, WILL BE COATED WITH EPOXY BONDING COMPOUND.
8. QUANTITIES FOR ITEMS 580.10, 580.11 OR 580.12 ARE ESTIMATED.
9. BRIDGE DECK AND APPROACH SLAB PATCHES SHALL BE MADE WITH "CONCRETE CLASS AA". THE AREA TO BE PATCHED SHALL BE THOROUGHLY CLEANED, WETTED AND COATED (THOROUGHLY BRUSHED INTO THE SURFACE) WITH NEAT CEMENT PASTE. THE CEMENT (AASHTO M85, TYPE II) AND WATER SHALL BE MIXED TO A THICK LATEX PAINT CONSISTENCY. THE NEAT CEMENT PASTE SHALL NOT BE ALLOWED TO DRY OUT BEFORE IT IS COVERED WITH FRESH CONCRETE. THIS PREPARATION WORK, NEAT CEMENT PASTE AND "CONCRETE, CLASS AA", SHALL BE INCLUDED IN THE BID PRICE FOR ITEMS 580.10, 580.11 OR 580.12, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS I, II OR III".
10. THE CONTRACTOR SHALL PROVIDE AND UTILIZE A 3.6 m (MIN.) STRAIGHT EDGE TO ENSURE THAT PATCHES ARE SMOOTH AND MATCH THE SURROUNDING CONCRETE. THE STRAIGHT EDGE IS TO BE USED PARALLEL TO CENTERLINE ONLY.
11. THE CURING PERIOD SHALL BE SEVEN (7) DAYS, REGARDLESS OF WHICH CURING METHOD IS USED. ANY METHOD OF CURING LISTED IN SECTION 501.17 (B) 1, 2, 5 OR 7 MAY BE USED TO CURE THESE DECK PATCHES. HOWEVER, IF THE METHOD USED DOES NOT PRODUCE DESIRED RESULTS, ALTERNATE CURING METHODS MAY BE REQUIRED BY THE RESIDENT ENGINEER.
12. THE MAXIMUM AIR HAMMER WEIGHT USED TO REMOVE UNSOUND MATERIAL SHALL BE 14 kg.

BEARING NOTES:

1. BEARINGS SHALL CONFORM TO REQUIREMENTS OF SECTION 531. COMPONENTS SHALL CONFORM TO DESIGN, FABRICATION AND MATERIAL REQUIREMENTS OF THE APPLICABLE SUBSECTIONS OF SECTION 731-BEARING PADS FOR STRUCTURES.
2. BEARINGS SHALL BE PAID FOR UNDER ITEM 531.10 "BEARING DEVICE ASSEMBLY."
3. SHOP DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL INCLUDE WELDING AND BONDING PROCEDURES. SHOP DRAWINGS SHALL ALSO INDICATE WHETHER BEARING COMPONENTS ARE GALVANIZED OR METALIZED. IF METALIZED IS USED, THE SHOP DRAWINGS SHALL DENOTE THE TYPE OF SEAL COATING THAT WILL BE PLACED ON THE METALIZING. SEE GENERAL NOTE 13 ON THIS SHEET FOR SHOP DRAWING DISTRIBUTION LIST.
4. SOLE PLATES AND WASHERS ARE TO BE GALVANIZED OR METALIZED AS PER SUBSECTION 506.15 (a) OR (b) OF THE STANDARD SPECIFICATIONS.
5. THE WELD BETWEEN THE SOLE PLATE AND BOTTOM FLANGE SHALL BE SMAW 8018 (C3). AREAS OF GALVANIZING ON THE SOLE PLATE DESTROYED IN THE WELDING PROCESS SHALL BE PAINTED WITH AN APPROVED SEALER. REFER TO SUPPLEMENTAL SPECIFICATION 513.
6. THE CONCRETE SURFACE UNDER THE BEARING SHALL BE LEVEL.
7. ANCHOR BOLTS SHALL HAVE A 380 mm MINIMUM EMBEDMENT INTO CONCRETE. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO SECTION 714.08 OF THE STANDARD SPECIFICATIONS.
8. PLATES AND PLATE WASHERS SHALL CONFORM TO AASHTO M 270M GRADE 250.
9. ALL WORK REQUIRED TO REMOVE THE EXISTING BEARINGS SHALL BE SUBSIDIARY TO PARTIAL REMOVAL OF STRUCTURE, ITEM 529.20.
10. THE ELASTOMER MATERIAL USED IN THE BEARING SHALL HAVE A SHORE A HARDNESS OF 50 - DUROMETER, SHEAR MODULUS OF 0.62 mPa AND A LOW TEMPERATURE GRADE OF 3.
11. FINISHED BEARINGS SHALL CONFORM TO THE DESIGN DIMENSIONS, TOLERANCES AND DETAILS LISTED BELOW:

BEARING TOLERANCES

DIMENSION	TOLERANCE
OVERALL VERTICAL	-0, +3 mm
OVERALL HORIZONTAL	-0, +6 mm
POSITION OF HOLES AND SLOTS CENTERLINE	+/- 1.6 mm FROM CENTERLINE
SIZE OF HOLES, SLOTS AND INTERNAL STEEL PLATES	-0, +1.6 mm
EDGE COVER OVER EXTERNAL STEEL PLATES	3 mm MIN.
BEDDING SURFACE (TOP AND BOTTOM) OVER INTERNAL STEEL PLATES	6 mm MIN.

A. NO EDGE COVER WILL BE REQUIRED OVER INTERNAL DETAILS THAT WILL NOT BE EXPOSED AFTER ERECTION. (I.E. - VERTICAL HOLES COVERED BY BEARING SEATS OR FLANGES).

B. THE INTERNAL STEEL PLATES SHALL BE CHECKED FOR PARALLELISM BY MEASURING THE DISTANCE BETWEEN EACH INDIVIDUAL STEEL PLATE, AND BETWEEN THE TOP OR BOTTOM EDGE OF THE BEARING TO THE FIRST ADJACENT STEEL PLATE. THE MEASUREMENTS WILL BE TAKEN AT THE MIDPOINT OF EACH SIDE. THE SMALLEST OF THE FOUR MEASUREMENTS SHALL BE RECORDED FOR EACH PLATE. THE CUMULATIVE OF THESE MEASUREMENTS SHALL NOT BE LESS THAN 75% OF THE DESIGN EFFECTIVE RUBBER THICKNESS.

C. THE AVERAGE THICKNESS OF THE INDIVIDUAL LAYERS OF THE ELASTOMER SHALL NOT VARY MORE THAN +/- 20% OF THE DESIGN THICKNESS AND IN NO CASE EXCEED THE DESIGN THICKNESS BY 3 mm. AVERAGE THICKNESS WILL BE CALCULATED FROM MEASUREMENTS TAKEN AT THE MIDPOINT OF EACH SIDE.

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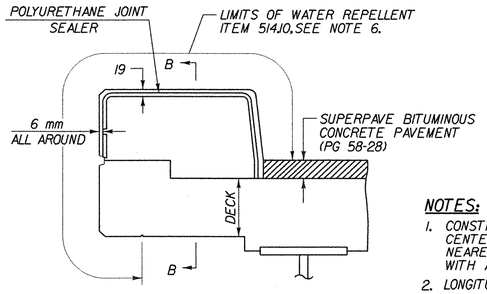
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI100 & BRI200
	Log Sta.
Highway No. VT. RTE. 279	Surv. Sta. 17+331
VT. RTE. 279	
GENERAL NOTES AND DETAILS	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRI	Sheet 57 OF 83



TYPICAL SECTION THROUGH CONCRETE CURB CONSTRUCTION JOINT

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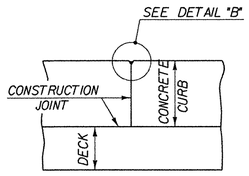
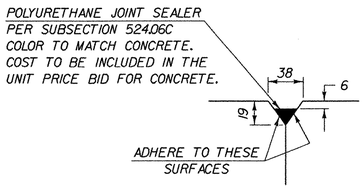


SECTION B - B

N.T.S.

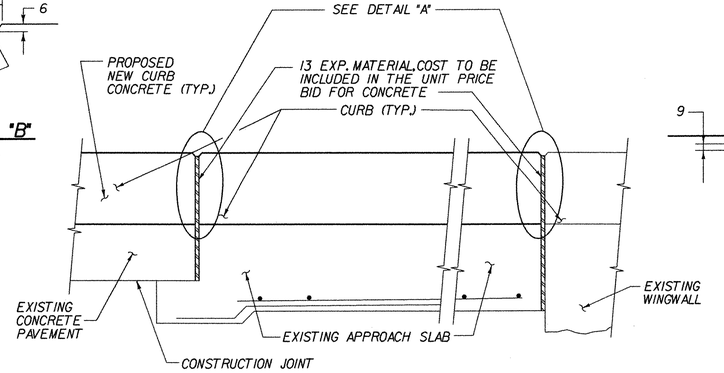


DETAIL "B"

N.T.S.

NOTES:

1. CONSTRUCTION JOINTS THROUGH CONCRETE CURBS SHALL BE SPACED MAXIMUM 4.5 m CENTER TO CENTER AND SHALL BE 560 mm MINIMUM FROM THE CENTER OF THE NEAREST BRIDGE RAIL POST. CONCRETE SHALL BE PLACED IN ALTERNATING SECTIONS WITH A MINIMUM OF 48 HOURS DELAY BETWEEN ADJACENT POURS.
2. LONGITUDINAL REINFORCING SHALL PASS THROUGH CONCRETE CURB CONSTRUCTION JOINTS.
3. TWO COMPONENT POLYURETHANE MATERIAL SHALL BE PLACED 100 mm WIDE ALONG DECK, 75 mm UP FACE OF CURB AND ALONG CONCRETE SHOULDER AT EXPANSION JOINT. SEE SPEC. 519.05 (b). POLYURETHANE MATERIAL AND BLAST CLEANING SHALL BE INCLUDED IN UNIT BID FOR SHEET MEMBRANE WATERPROOFING (TORCH APPLIED) (MOD.).
4. BLAST CLEAN 1000 mm FROM FACE OF CURB AND 95 mm UP CURB FACE PRIOR TO PLACING MEMBRANE.
5. A 15 mm RADIUS MAY BE USED IN LIEU OF THE 25 mm BY 25 mm CHAMFER ON THE TOP INSIDE CORNER OF CURBS.
6. THE LIMITS OF WATER REPELLENT SHALL EXTEND FROM THE TOP OF PAVEMENT TO THE GROUND LINE ON THE WINGWALL AND CONCRETE PAVEMENT CURB SECTIONS.



SECTION THROUGH FASCIA

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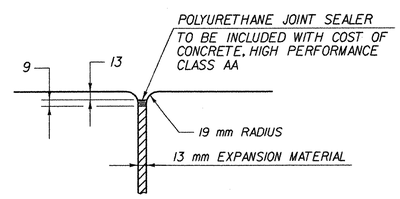
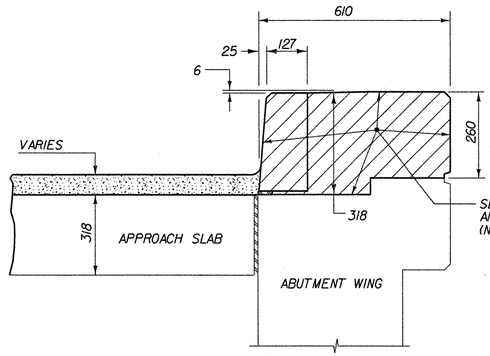


DETAIL "A"

N.T.S.



EXISTING WINGWALL FASCIA

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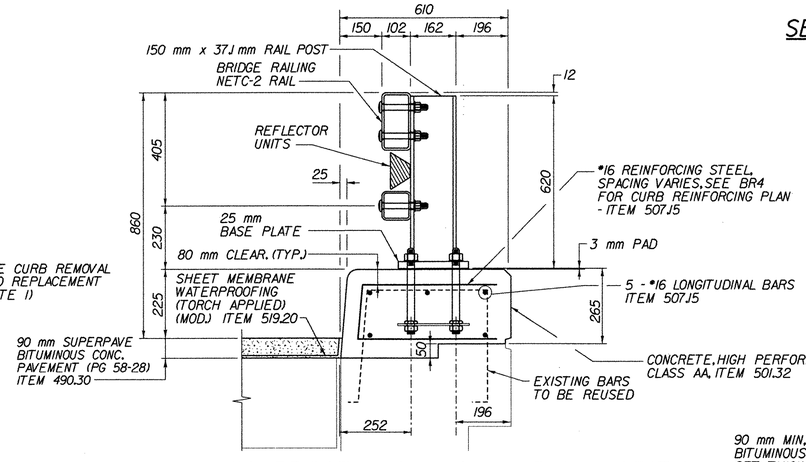
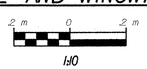
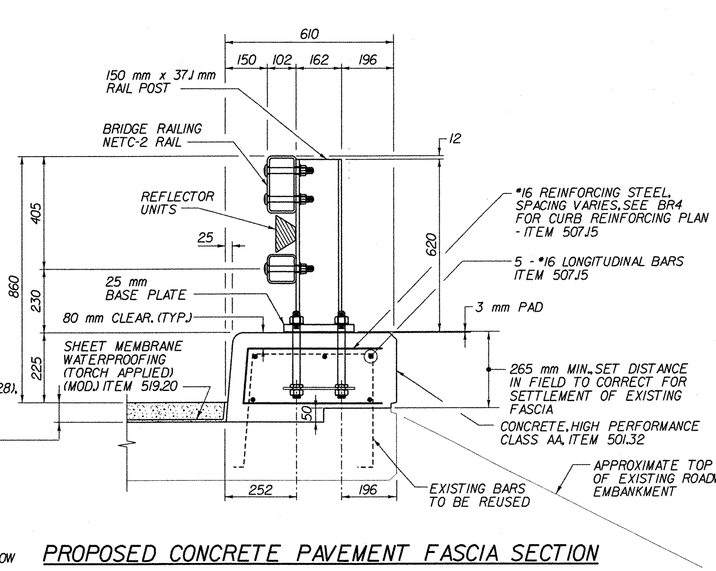
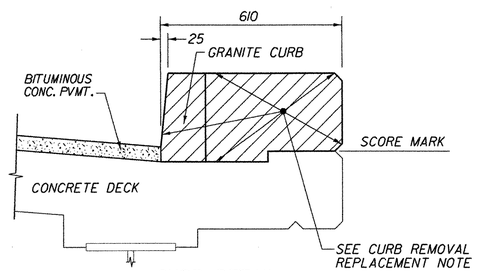


PROPOSED BRIDGE AND WINGWALL FASCIA SECTION

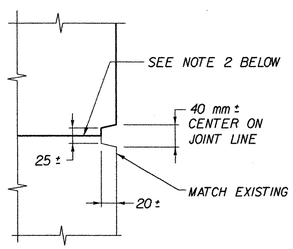




PROPOSED CONCRETE PAVEMENT FASCIA SECTION



CURB DETAIL



SCORE MARK DETAIL

CURB REMOVAL DETAIL

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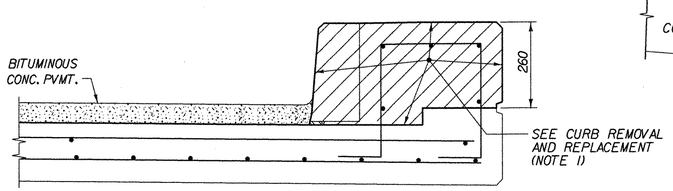

EXISTING CONCRETE PAVEMENT FASCIA

N.T.S.

CURB REMOVAL AND REPLACEMENT NOTES:

1. THE SHADED AREA IN THE CURB DETAIL SHALL BE REMOVED AS REMOVAL OF CONCRETE OR MASONRY (ITEM 529.25).
2. THE CONTRACTOR BEFORE REMOVING OLD CONCRETE DOWN TO SCORE MARK, SHOULD SAW CUT 25 mm DEEP IN THE CENTER OF SCORE MARK. CARE SHALL BE EXERCISED IN THE REMOVAL OF CONCRETE SO AS NOT TO DAMAGE THE EXISTING VERTICAL REINFORCING STEEL THAT IS TO REMAIN IN PLACE.
3. HORIZONTAL REINFORCING STEEL SHALL BE REPLACED.
4. THE ANCHOR BOLTS SHOULD BE CAST IN AS SHOWN ON SHT. BR4.
5. NEW CONCRETE IN CURB SECTIONS SHALL BE CONCRETE, HIGH PERFORMANCE CLASS AA, ITEM 501.32

Metric

NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI200
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+853
VT. RTE. 279	
SECTIONS AND DETAILS	
Designed By D. STECIAK	Drawn by K. RAPELLO/B. WEATHERBY
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BR2	Sheet 58 OF 83

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DATE/TIME = 2/17/2004
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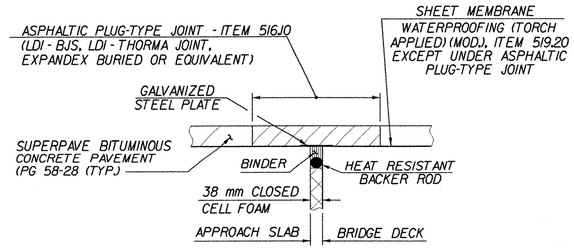
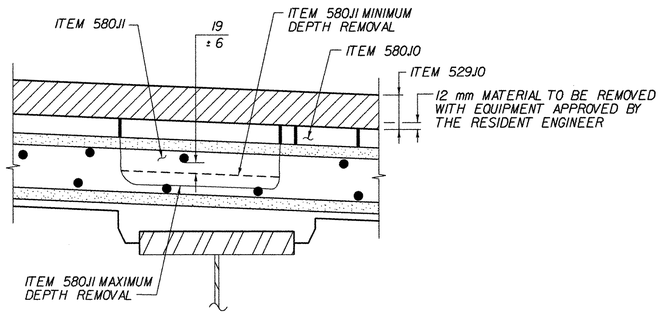
Metric

NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.



ASPHALTIC PLUG-TYPE JOINT DETAIL

N.T.S.

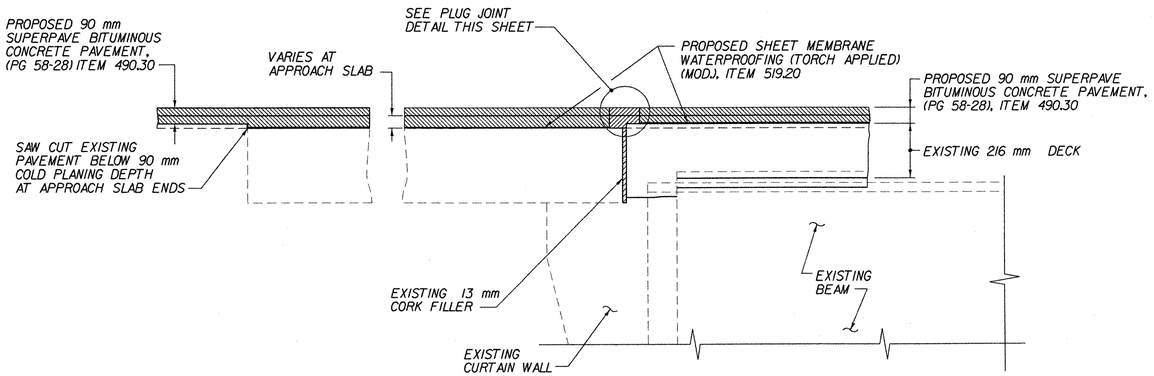


TYPICAL LIMITS FOR REMOVAL ITEMS

N.T.S.

DECK SLAB CONCRETE REMOVAL & REPAIR NOTES:

1. ALL EDGES OF REPAIR AREAS ARE TO BE SAW CUT SQUARE AND A MINIMUM OF 25 mm DEEP.
2. ITEM 580J0 "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE CLASS I" SHALL INCLUDE REMOVAL OF CONCRETE TO A MAXIMUM DEPTH AS DETERMINED BY THE TOP OF THE TOP BARS OF THE TOP MAT OF REINFORCING STEEL.
3. ITEM 580J1 "REPAIR OF CONCRETE SUPERSTRUCTURE CLASS II SHALL INCLUDE REMOVAL OF CONCRETE TO A MAXIMUM DEPTH AS DETERMINED BY THE TOP OF THE TOP BARS OF THE BOTTOM MAT OF REINFORCING STEEL.
4. REMOVAL OF EXISTING CONCRETE TO A DEPTH GREATER THAN SPECIFIED FOR ITEM 580J1 SHALL BE PAID FOR UNDER ITEM 580J2 "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE CLASS III
5. SEE ADDITIONAL NOTES ON BRI.



FIXED END OF BRIDGE BRI100 & BRI200 AT ABUTMENTS BOTH ENDS OF BRIDGE BR800 AT ABUTMENTS

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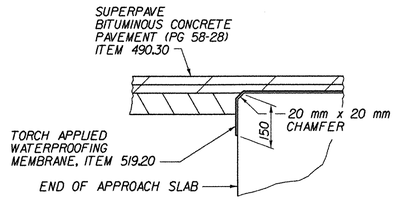

DETAIL FOR JOINT IN PAVEMENT AND SHEET MEMBRANE AT END OF APPROACH SLAB

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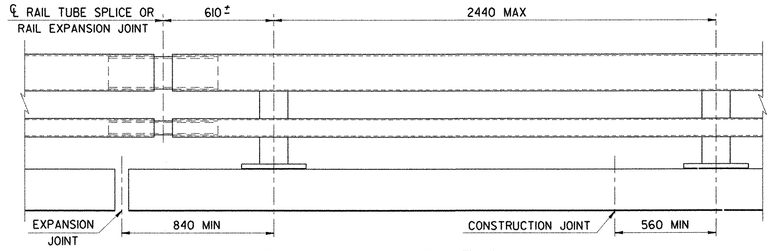
STATE OF VERMONT
AGENCY OF TRANSPORTATION

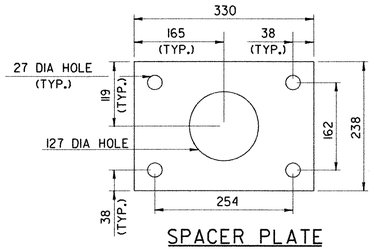
Town Of BENNINGTON	Bridge No. BRI100
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+780
VT. RTE. 279	
PAVEMENT AND CURB DETAILS	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.C.C. Info.	
Bridge Sheet No. BR3	Sheet 59 OF 83

Metric

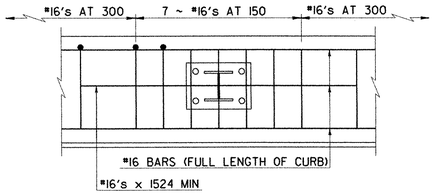
NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.



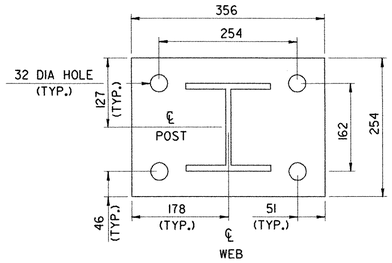
BRIDGE RAILING ELEVATION



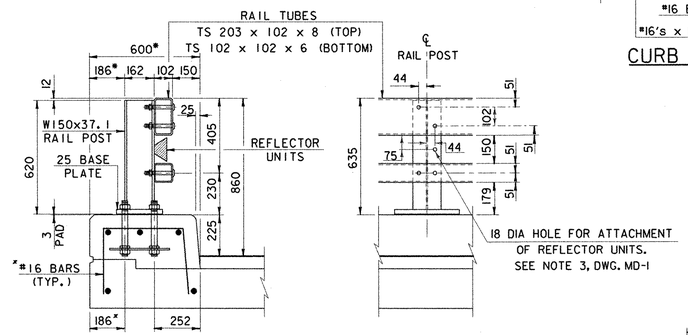
SPACER PLATE



CURB REINFORCING PLAN



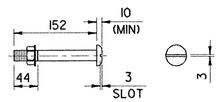
POST AND BASE PLATE



TYPICAL SECTION

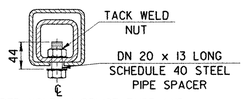
* - REFER TO SHEET BR2 FOR DIMENSION AND REINFORCEMENT MODIFICATIONS.

ELEVATION



M20 DIA M164 (TYPE I) ROUND HEAD BOLT

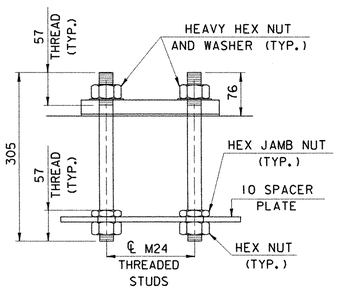
(WITH WASHER AND PREVAILING TORQUE TYPE LOCK NUT) (SEE NOTE *9)
ONLY FULL DIAMETER BODY BOLTS WILL BE ALLOWED.



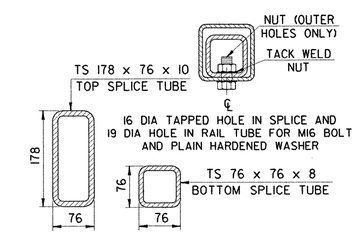
16 DIA TAPPED HOLE IN SPLICE TUBE AND 29 x 'C' SLOT IN RAIL TUBE FOR M16 BOLT AND PLAIN HARDENED WASHER

EXPANSION JOINT SECTION

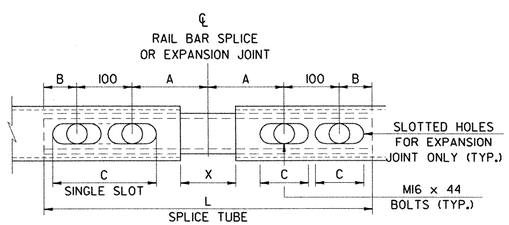
FOR DETAILS NOT SHOWN SEE "RAIL TUBE SPLICE SECTION"



RAIL POST ANCHORAGE

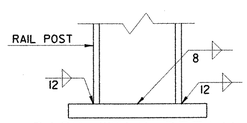


RAIL TUBE SPLICE SECTION



RAIL TUBE SPLICE AND RAIL EXPANSION JOINT DETAIL

(BOTTOM VIEW)



BASE WELD DETAIL

NOTES

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE PROVISIONS OF SECTION 525, "RAILINGS" OF THE STANDARD SPECIFICATION FOR CONSTRUCTION.
2. TUBING AND POSTS SHALL MEET THE REQUIREMENTS OF SECTION 732, "RAILING" MATERIALS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION, EXCEPT THAT THE DROP-WEIGHT TEAR TEST IN SECTION 732 SHALL NOT APPLY TO THE STRUCTURAL TUBING IN THIS STANDARD.
3. ALL EXPOSED CUT OR SHEARED EDGES SHALL BE ROUNDED TO A 2 mm RADIUS AND BE FREE OF BURRS.
4. RAIL POSTS SHALL BE SET NORMAL TO GRADE.
5. SECTIONS OF RAIL TUBE SHALL BE ATTACHED TO A MINIMUM OF TWO (2) RAIL POSTS AND PREFERABLY TO AT LEAST FOUR (4) POSTS.
6. RAIL TUBE EXPANSION JOINTS SHALL BE PROVIDED IN ANY RAIL BAY SPANNING A SUPERSTRUCTURE EXPANSION JOINT. EXPANSION JOINT WIDTH SHALL BE "X" AT 7°C AND WILL BE ADJUSTED IN THE FIELD BY THE RESIDENT ENGINEER FOR OTHER TEMPERATURES.
7. ALL PARTS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111, EXCEPT THAT HARDWARE SHALL MEET THE REQUIREMENTS OF AASHTO M232M.
8. RAIL POSTS ANCHORING NUTS SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL ONE-EIGHTH TURN.
9. RAIL TUBES SHALL BE ATTACHED USING M20 FULL DIAMETER BODY AASHTO M164 (TYPE 1) ROUND HEAD BOLTS INSERTED THROUGH THE FACE OF THE TUBE. HOLES IN POSTS SHALL BE 2 mm LARGER THAN THE BOLT SIZE.
10. HOLES IN RAILS FOR RAIL TUBE ATTACHMENT MAY BE FIELD-DRILLED. HOLES SHALL BE COATED WITH AN APPROVED ZINC-RICH PAINT PRIOR TO ERECTION.
11. ANY BENDING OF RAIL SHALL BE BY SHOP PROCEDURE ONLY.
12. THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS INCLUDING WELDING PROCEDURES FOR APPROVAL IN ACCORDANCE WITH THE PROVISION OF 506.04, SHOP DRAWINGS. ALL WELDING SHALL CONFORM WITH SECTION 506.10. SEE NOTE 13 ON SHEET NO. BR1 FOR SHOP DRAWINGS DISTRIBUTION LIST.
13. RAIL POST AND BASE PLATES SHALL BE TESTED FOR IMPACT PROPERTIES IN ACCORDANCE WITH ASTM A370 CHARPY IMPACT TESTING USING TYPE A SPECIMENS.

MATERIALS

RAIL TUBES.....ASTM A500, GRADE B OR ASTM A501
RAIL POSTS AND BASE ..PLATE.....ASTM A709/A709M, GRADE 345
ALL OTHER SHAPES AND PLATES.....ASTM A709/A709M, GRADE 250
ANCHOR STUDS.....ASTM F568M CLASS 8.8
ALL OTHER BOLTS (UNLESS NOTED).....AASHTO M164M, TYPE 1

NUTS FOR AASHTO M164 BOLTS AND ANCHOR STUDS SHALL COMPLY WITH AASHTO M291M (ASTM A563M).

WASHERS SHALL COMPLY WITH AASHTO M293M (ASTM F436M) SPECIFICATIONS.

3mm PAD SHALL COMPLY WITH STANDARD SPECIFICATION SUBSECTION 731.01 OR 731.02.

SPLICE TABLE					
T	A	B	C	L	X
NA	100	50	--	510	20
EXPANSION JOINT TABLE					
<100	100	50	65	510	65
>100 <165	140	60	90	605	105
>165 <230	165	85	230*	705	130
>230 <330	215	110	280*	860	180

T = TOTAL MOVEMENT BETWEEN BRIDGE EXPANSION JOINTS. SEE NOTE 6
* = SINGLE SLOT

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI200
Highway No. VT. RTE. 279	Log Sta. / Surv. Sta. 17+853
VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A	
BRIDGE RAILING - N.E.T.C. 2 RAIL	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BR4	Sheet 60 OF 83

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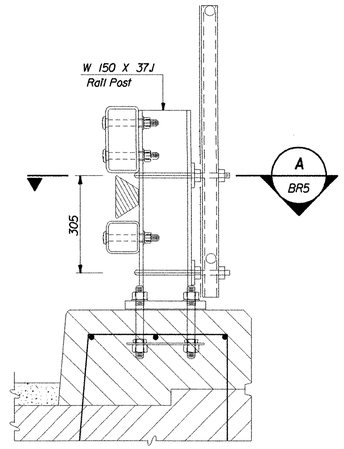
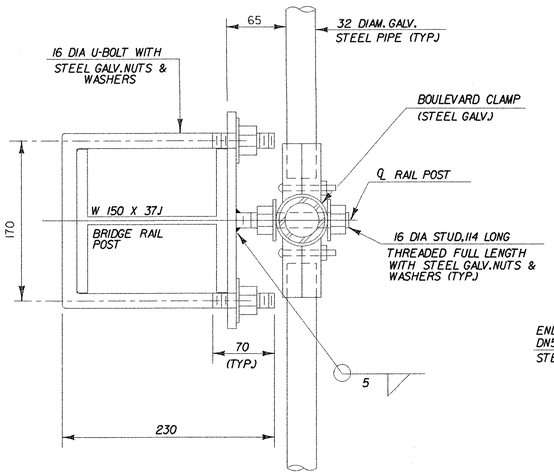


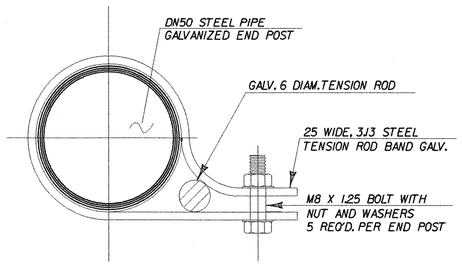
TYPICAL SECTION

NOTE: FOR DIMENSIONS SEE SHEETS BR2 AND BR4

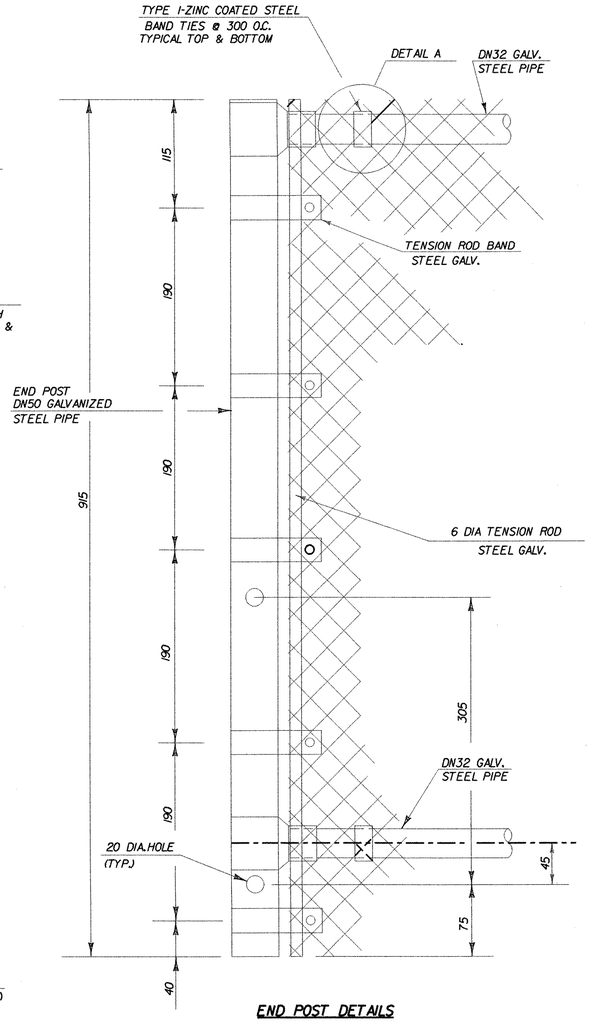


A BR5 **BRIDGE RAILPOST SECTION**

N.T.S.



TENSION ROD BAND



END POST DETAILS

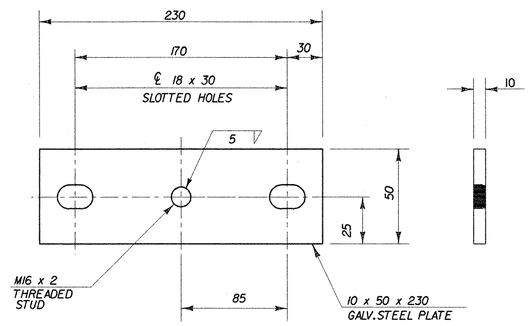
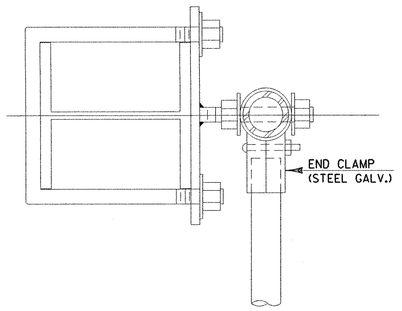
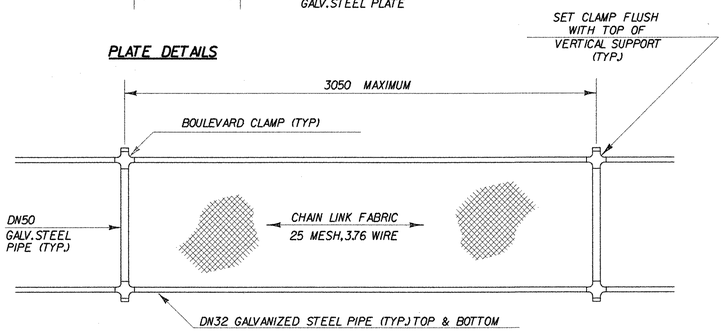


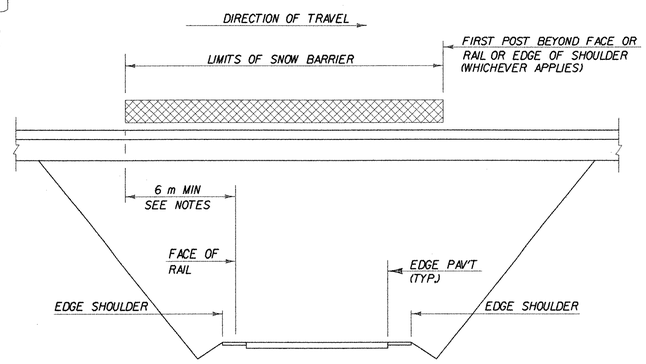
PLATE DETAILS



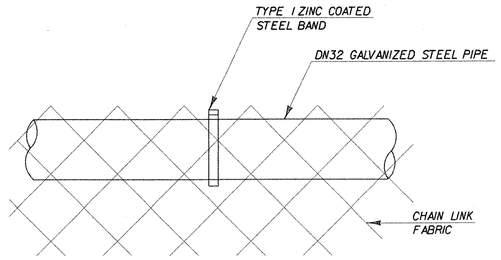
PLAN VIEW AT END POST



ELEVATION SNOW BARRIER



SCHEMATIC SNOW BARRIER LIMITS



DETAIL A

Metric

NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.

NOTES

1. THREADS OF STUDS AND U-BOLTS TO BE M16 x 2.
2. ALL CONNECTION PLATES TO BE GALVANIZED AFTER FABRICATION.
3. DN 32 PIPE LENGTH SHALL BE FIELD CUT TO FIT POST SPACING.
4. CHAIN LINK FABRIC TO BE KNUCKLED TOP AND BOTTOM.
5. ALL BOLTS, THREADED STUDS AND WASHERS SHALL CONFORM TO THE SPECIFICATIONS FOR AASHTO M164M, TYPE 1. NUTS SHALL CONFORM TO AASHTO M291M.
6. ALL STEEL PLATES SHALL CONFORM TO THE SPECIFICATION FOR AASHTO M270/M270M, GRADE 250.
7. ALL GALVANIZING SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-181 WITH HARDWARE AND FITTINGS CONFORMING TO THE REQUIREMENTS OF AASHTO M-111 OR AASHTO M-232 WHICHEVER IS APPLICABLE. ALL BOLTS, NUTS AND WASHERS SHALL BE EITHER HOT-DIP GALVANIZED IN ACCORDANCE WITH THE ABOVE AASHTO REQUIREMENTS OR MECHANICALLY GALVANIZED USING A MECHANICALLY DEPOSITED PROCESS CONFORMING TO THE REQUIREMENTS OF AASHTO M-298, CLASS 110.
8. GALVANIZED CHAIN-LINK FABRIC SHALL BE TYPE I (ZINC) CLASS D AS SPECIFIED IN AASHTO M181.
9. SNOW BARRIER SHALL BEGIN AT THE BRIDGE RAIL POST WHICH WILL PROVIDE A MINIMUM DISTANCE OF 6 m (AS SHOWN) OR AS DIRECTED BY THE RESIDENT ENGINEER.
10. ALL DN (I.E. DIAMETER NOMINAL) REFERENCES TO GALVANIZED STEEL PIPE SHALL REFER TO THE NOMINAL PIPE SIZE.
11. ALL POSTS, RAILS AND HARDWARE SHALL BE ZINC COATED AND CONFORM TO THE REQUIREMENTS OF AASHTO M181, GRADE 1 OR GRADE 2.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BR800 & BRI200
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+853
VT. RTE. 279	
SNOW FENCE FOR BRIDGE RAILING - N.E.T.C. 2 RAIL	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BR5	Sheet 61 OF 83

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III WINNERS CIRCLE - ALBANY, NEW YORK - 12205
518-453-4500

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Metric

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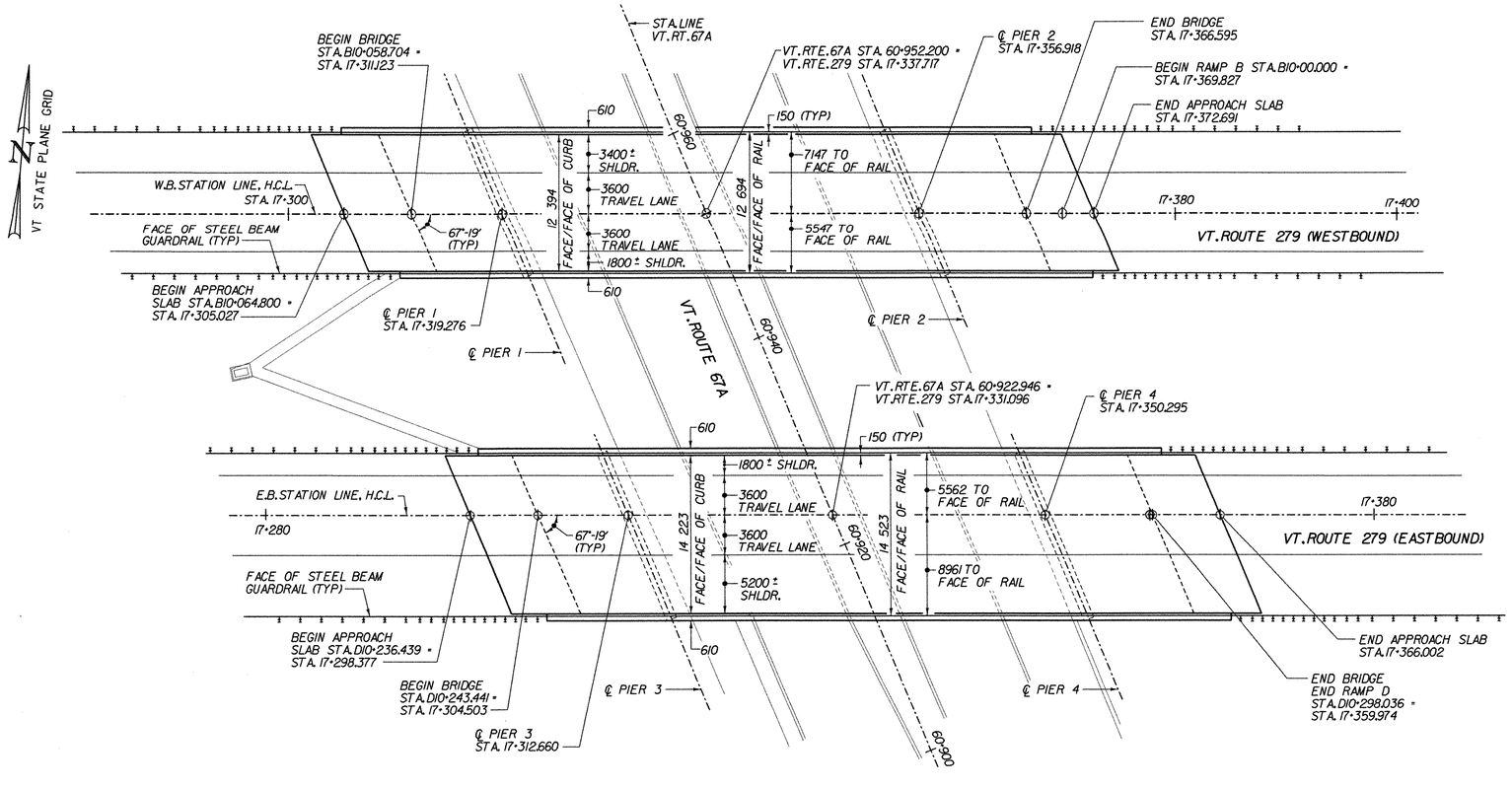


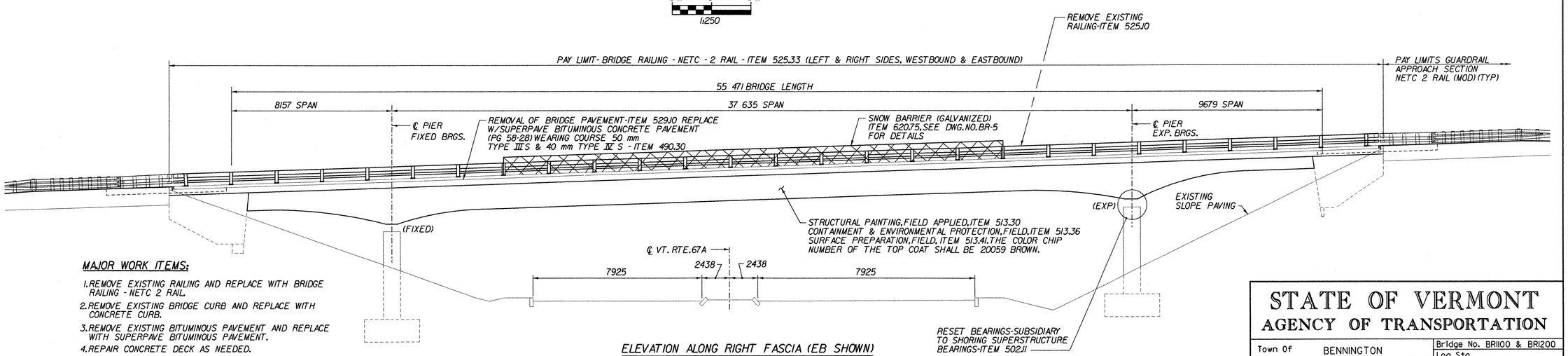
PLAN

5 m 0 5 m

1:250

THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON LIMITED FIELD INVESTIGATION AND RECORD DRAWINGS AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS. ALL DIMENSIONS AND JOINT LOCATIONS SHALL BE FIELD CHECKED BY THE CONTRACTOR PRIOR TO SUBMISSION OF FABRICATION DRAWINGS FOR APPROVAL.

LIST OF BRIDGE SHEETS	
BR800	PLAN AND ELEVATION
BR801	EXISTING TRANSVERSE BRIDGE SECTIONS
BR802	BRIDGE QUANTITY SHEET
BR803	BRIDGE RAILING AND CURB DETAILS
BR804	FRAMING PLAN AND STEEL DETAILS



ELEVATION ALONG RIGHT FASCIA (EB SHOWN)

2 m 0 2 m

1:100

MAJOR WORK ITEMS:

1. REMOVE EXISTING RAILING AND REPLACE WITH BRIDGE RAILING - NETC 2 RAIL.
2. REMOVE EXISTING BRIDGE CURB AND REPLACE WITH CONCRETE CURB.
3. REMOVE EXISTING BITUMINOUS PAVEMENT AND REPLACE WITH SUPERPAVE BITUMINOUS PAVEMENT.
4. REPAIR CONCRETE DECK AS NEEDED.
5. CLEAN AND PAINT SUPERSTRUCTURE.
6. SHORE SUPERSTRUCTURE AND RESET PIERS 2 & 4 BEARINGS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BR1100 & BR1200
	Log Sta.
Highway No. VT. RTE. 279	Surv. Sta. 17+331
VT. RTE. 279 OVER VT. ROUTE 67A	
PLAN AND ELEVATION	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
L.G.C. Info.	
Bridge Sheet No. BR800	Sheet 62 OF 83

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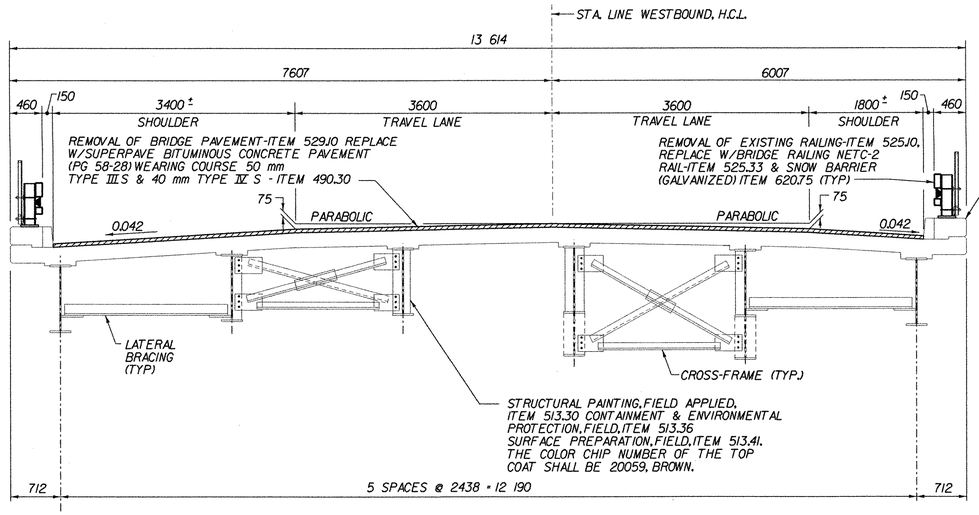
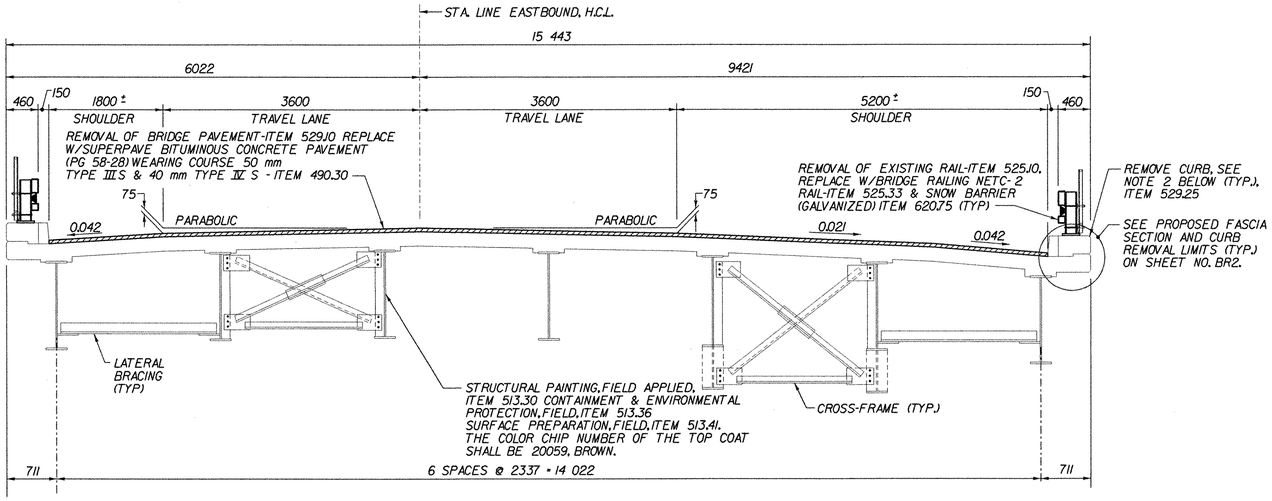


TYPICAL BRIDGE SECTION (WESTBOUND)

.8 m 0 .8 m

1:40



TYPICAL BRIDGE SECTION (EASTBOUND)

.8 m 0 .8 m

1:40

LOAD FACTOR LOAD RATING (METRIC TONS)							
LOADING LEVELS (LOAD FACTOR)	TRUCK						
	M	MS	3S2	6 AXLE	3A.STR.	4A.STR.	5A.SEMI
INVENTORY A = 2.17, B = 1.00	22	37					
POSTED A = 1.55, B = 1.80	34	57	73		51	44	*72
OPERATING A = 1.30, B = 1.67		53	61	113	43	54	

$RF = \dfrac{\emptyset\, Mn - 1.3\, M_{DL}}{A \times M_{LL} + I}$ *SERVICEABILITY RF= B $\left[\dfrac{.95\, F_y S_{LL+I} - M_{DL}\frac{S_{LL+I}}{S_{DL}} - M_{SDL}\frac{S_{LL+I}}{S_{SDL}}}{1.67\, M_{LL+I}}\right]$

PROJECTED TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2000	5300	-	-	-	-
2020	6600	840	52%	7%	460

20 YEAR ESAL FOR FLEXIBLE PAVEMENT FROM 2000 TO 2020 = 4,825,000
40 YEAR ESAL FOR FLEXIBLE PAVEMENT FROM 2000 TO 2040 = 17,229,000
DESIGN SPEED: 100 km/h

RAILING ANCHORAGE NOTES:

1. NEW ASTM A449-22 mm DIAMETER ANCHOR BOLTS TO BE CAST-IN-PLACE SHALL BE FURNISHED WITH TWO NUTS AND ONE WASHER. BOLTS, NUTS AND WASHERS SHALL BE FURNISHED UNDER ITEM 525.33 BRIDGE RAILING-NETC 2 RAIL.

BEARING NOTES:

THE EXPANSION BEARINGS AT PIERS 2 & 4 OF THE EXISTING STRUCTURE SHALL BE RESET FOR ALL GIRDERS AS PER THE FOLLOWING PROCEDURE UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER:

a) REMOVE NUTS AND WASHERS FROM ANCHOR BOLTS.

b) JACK GIRDER AND BLOCK AS REQUIRED TO REPOSITION SOLE PLATE

c) GRIND OFF EXISTING WELD TO LOOSEN SOLE PLATE FROM THE BOTTOM FLANGE OF GIRDER.

d) LOOSEN THE SLIDING PLATE FROM THE MASONRY PLATE.

e) CLEAN ALL SURFACES OF ALL BEARING PLATES WITH SOLVENT TO REMOVE OLD GREASE.

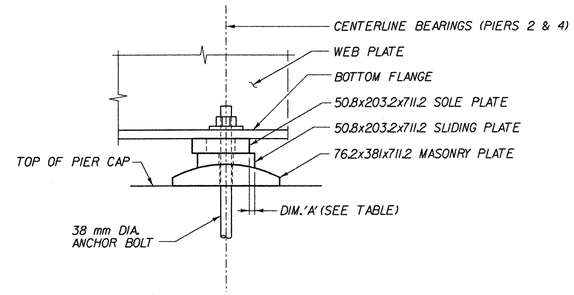
f) LUBRICATE TOP FACE OF MASONRY PLATE, TOP AND BOTTOM FACES OF SLIDING PLATE AND BOTTOM FACE OF SOLE PLATE WITH SILICON GREASE.

g) REPOSITION SOLE PLATE AS PER DIMENSION 'A' AS SHOWN IN TABLE AND WELD INTO PLACE (14mm FILLET WELD EACH SIDE OF BOTTOM FLANGE).

h) LOWER GIRDER TO ORIGINAL POSITION, MAINTAINING THE EXISTING ROADWAY PROFILE AND ELEVATION.

I) REINSTALL WASHERS AND NUTS.

THE COST OF ALL WORK AND MATERIALS AS NOTED FOR RESETTING BEARINGS SHALL BE SUBSIDIARY TO SHORING SUPERSTRUCTURE BEARINGS, ITEM 502.11.



BEARING RESET @ TEMP BELOW 7°C

(LOOKING NORTH)

.2 m 0 .2 m

1:10

TEMP °C	DIM 'A' IN MILLIMETERS
40	14
30	10
20	6
10	1
0	-3
-10	-7
-20	-12

NOTES:

1. SEE SHEET NO. BR3 FOR ASPHALT OVERLAY REMOVAL AND REPLACEMENT NOTES AND FOR DECK SLAB REPAIR DETAILS.
2. SEE SHEET NO. BR2 FOR CURB REMOVAL AND REPLACEMENT DETAILS.

Metric

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STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI100 & BRI200 Log Sta.
Highway No. VT. RTE. 279	Surv. Sta. 17+331
VT. RTE. 279 OVER VT. ROUTE 67A	
EXISTING TRANSVERSE BRIDGE SECTIONS	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BR801	Sheet 63 OF 83

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EARTHWORK

V.C.	% GRD	STATION	ELEVATION ON TANGENT	ELEVATION ON V.C.	CORR. V.C	DIST.	AREA	m^3	AREA	m^3	AREA	m^3	AREA	m^3

BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES SECTION

NO.	ITEM	UNIT	QUANTITY BREAKDOWN (EB) SUPER-STRUCTURE	ABUTMENT 3	ABUTMENT 4	PIER 3	PIER 4	APPROACH SLABS	QUANTITY BREAKDOWN (WB) SUPER-STRUCTURE	ABUTMENT 1	ABUTMENT 2	PIER 1	PIER 2	APPROACH SLABS		TOTAL	FINAL
490.30	SUPERPAVE BIT.CONC.PAVEMENT (PG 58-28)	t	206						183							389	
501.32	CONCRETE,HIGH PERFORMANCE CLASS AA	m^3	22						22							44	
502.11	SHORING SUPERSTRUCTURE BEARINGS	EA					7						6			13	
507.15	REINFORCING STEEL	kg	1640						2087							3727	
513.30	STRUCTURAL PAINTING,FIELD APPLIED (BR800)(320 t)	LS	0.55						0.45							1	
513.36	CONTAINMENT & ENVIRONMENTAL PROTECTION,FIELD (BR800)	LS	0.55						0.45							1	
513.41	SURFACE PREPARATION, FIELD (BR800)	LS	0.55						0.45							1	
514.10	WATER REPELLENT	L	61						61							122	
516.10	BRIDGE EXPANSION JOINT (ASPHALTIC PLUG TYPE)	m	31						27							58	
519.20	SHEET MEMBRANE WATERPROOFING (TORCH APPLIED)(MOD.)	m^2	961						840							1801	
524.21	JOINT SEALER,POLYURETHANE	m	33						33							66	
525.10	REMOVAL OF EXISTING RAIL	m	124						124							248	
525.33	BRIDGE RAILING - NETC 2 RAIL	m	124						124							248	
529.10	REMOVAL OF BRIDGE PAVEMENT	m^2	961						840							1801	
529.25	REMOVAL OF CONCRETE OR MASONRY	m^3	22						22							44	
580.10	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS I	m^2	15						15							30	
580.11	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS II	m^2	10						10							20	
580.12	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS III	m^3	10						10							20	
580.16	SURFACE PREPARATION FOR MEMBRANE	m^2	37						37							74	
580.17	RAPID SETTING CONCRETE REPAIR MATERIAL	m^3	1						1							2	
620.75	SNOW BARRIER (GALVANIZED)	m	50						50							100	
635.10	MOBILIZATION	LS														0.3	
641.10	TRAFFIC CONTROL	LS														0.3	
641.10	TRAFFIC CONTROL (MOD.)	LS														0.3	

BRIDGE AT STATION (S) 17+331
LOCATION VT. RTE. 279 OVER VT. ROUTE 67A

Prepared By: D. STECIAK | Checked By: M.W. OLSTAD
SUPERVISOR: M. W. OLSTAD

BENNINGTON-HOOSICK
BR 802 OF

PROJECT NO. D.P.I. 0146(1) C/6
SHEET NO. 64 OF 83

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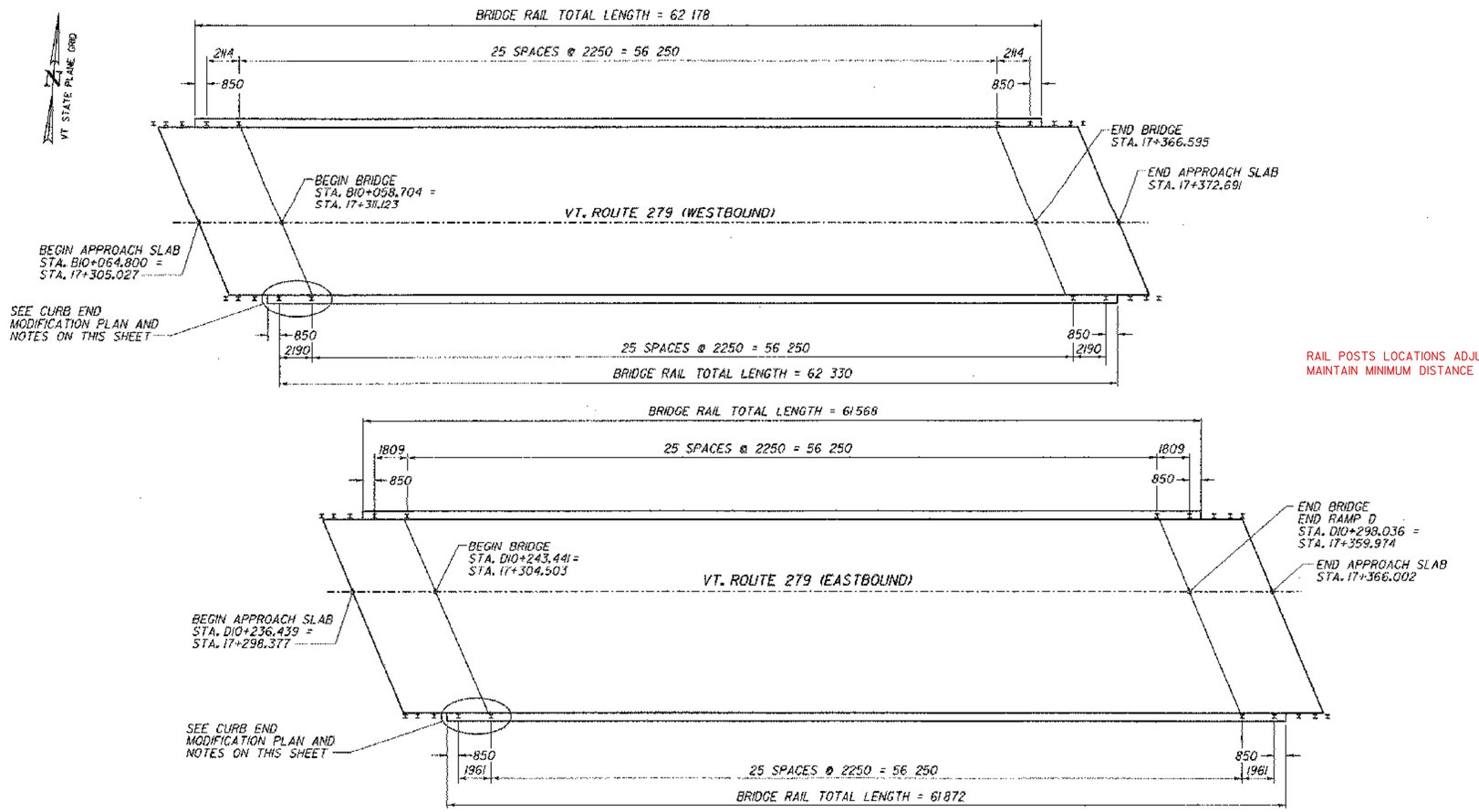
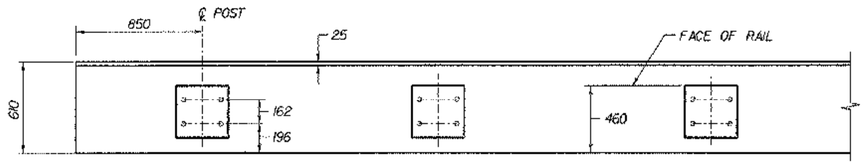


RAIL POSTS LOCATIONS ADJUSTED TO MAINTAIN MINIMUM DISTANCE TO JOINTS.

RAILING LAYOUT PLAN

4 m 0 4 m

1:200



TYPICAL CURB END MODIFICATION PLAN

.4 m 0 .4 m

1:20

CURB END MODIFICATION NOTES:

1. EXISTING CONCRETE SHALL BE SAW CUT 25 mm DEEP AT ENDS AND ALONG CENTER OF SCORE MARK BEFORE REMOVING.
2. REMOVAL OF CURBING AND CONCRETE AT EACH CORNER OF BRIDGE WILL BE PAID FOR UNDER ITEM 529.25, REMOVAL OF CONCRETE OR MASONRY.
3. EXISTING CONCRETE SHALL BE THOROUGHLY COATED WITH NEAT CEMENT PASTE BEFORE NEW CONCRETE IS POURED AS PER SUBSECTION 501.13B.
4. NEW CONCRETE IN CURB SECTIONS WILL BE CONCRETE, HIGH PERFORMANCE CLASS AA, ITEM 501.32.

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DATE/TIME = 2/17/2004
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STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BR100 & BR120 Log Sta.
Highway No. VT. RTE. 279	Surv. Sta. 17+331
VT. RTE. 279 OVER VT. ROUTE 67A	
BRIDGE RAILING AND CURB DETAILS	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.J. 0146(1) C/6
L.G.C. Info.	
Bridge Sheet No. BR803	Sheet 65 OF 83

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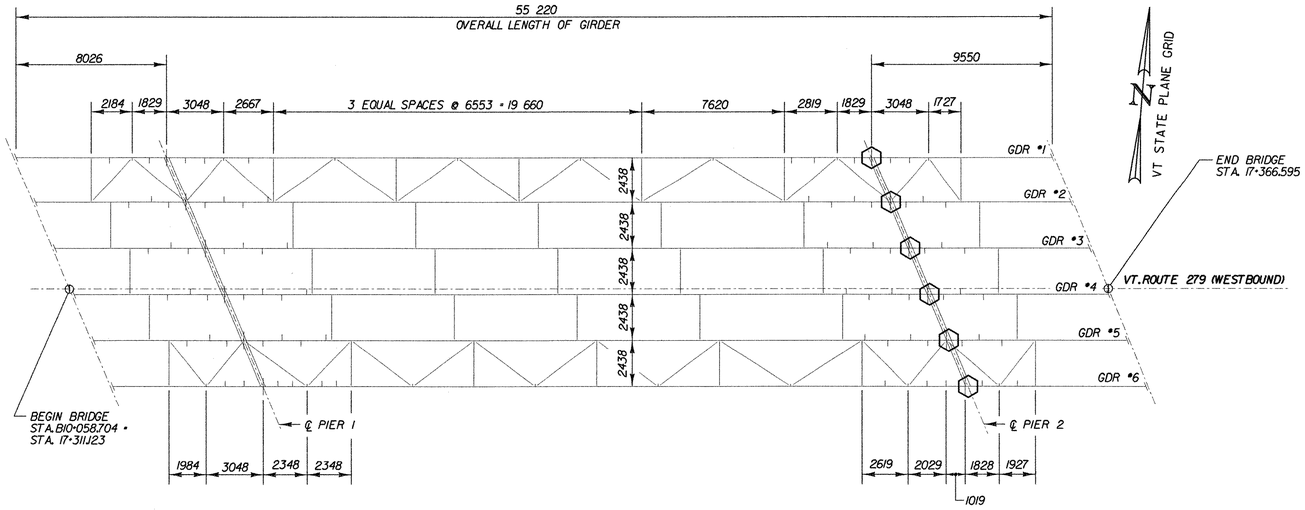

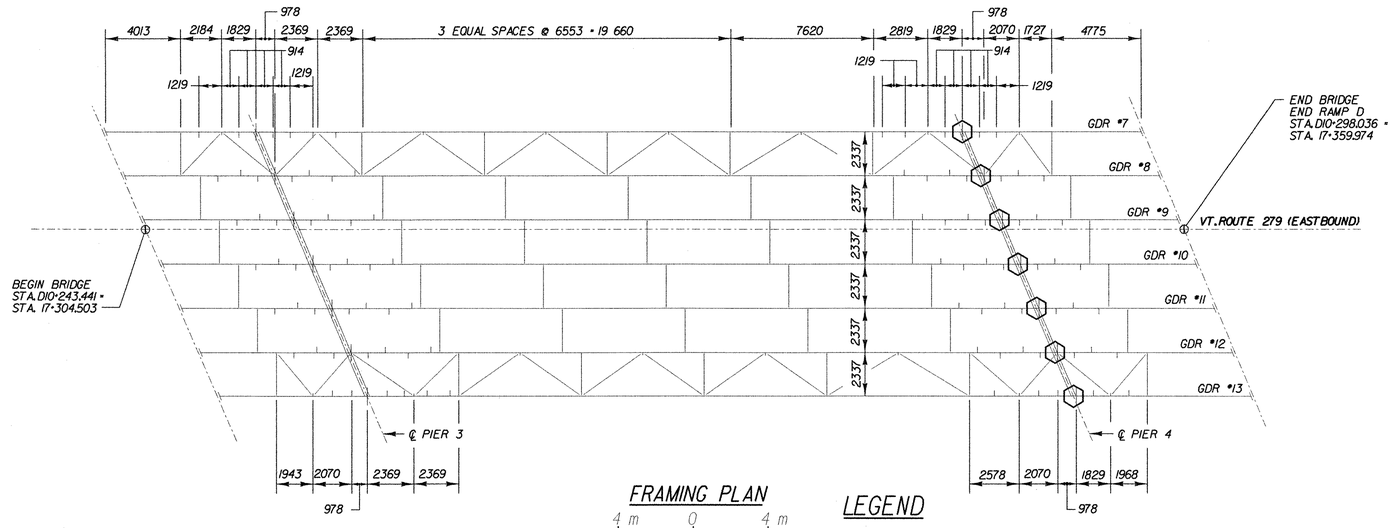

FRAMING PLAN

4 m 0 4 m

1:200

LEGEND

⬡ - LOCATION OF EXPANSION BEARINGS TO BE RESET, SUBSIDIARY TO ITEM 502.11

NOTES:

1. THE CONTRACTOR SHALL PROVIDE WELDING PROCEDURES TO THE VTRANS WELDING INSPECTOR FOR APPROVAL PRIOR TO STARTING ANY WELDING ON THE BRIDGE.
2. NO WELDING SHALL TAKE PLACE UNLESS THE VTRANS WELDING INSPECTOR OR HIS REPRESENTATIVE IS PRESENT.
3. BEARING SOLE PLATE IS TO BE REATTACHED TO THE GIRDER BOTTOM FLANGE WITH A ½" FILLET FIELD WELD ON EACH SIDE.
4. DEADLOAD JACKING FORCE IS APPROXIMATELY 785 Kn PER BEARING.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI100 & BRI200
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+331

VT. RTE. 279 OVER VT. ROUTE 67A

FRAMING PLAN AND STEEL DETAILS

Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BR804	Sheet 66 OF 83

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Metric

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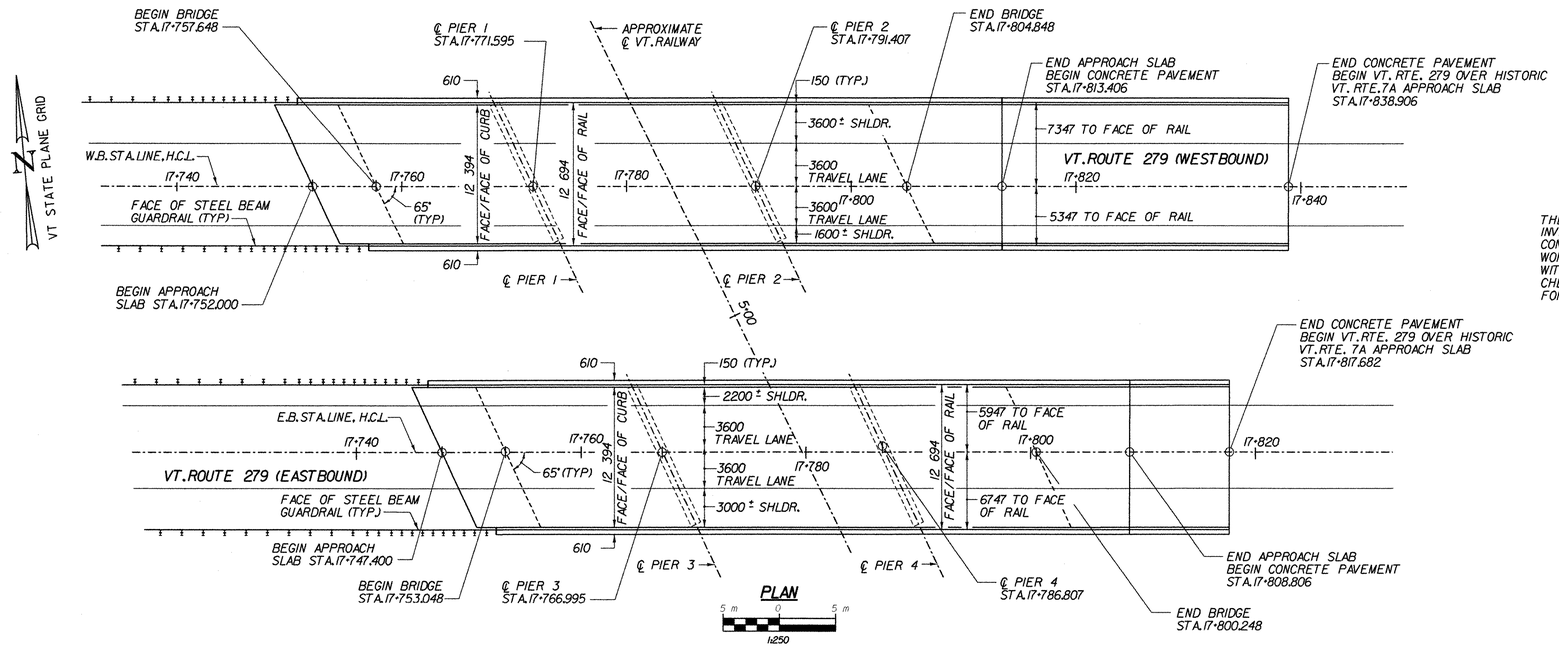
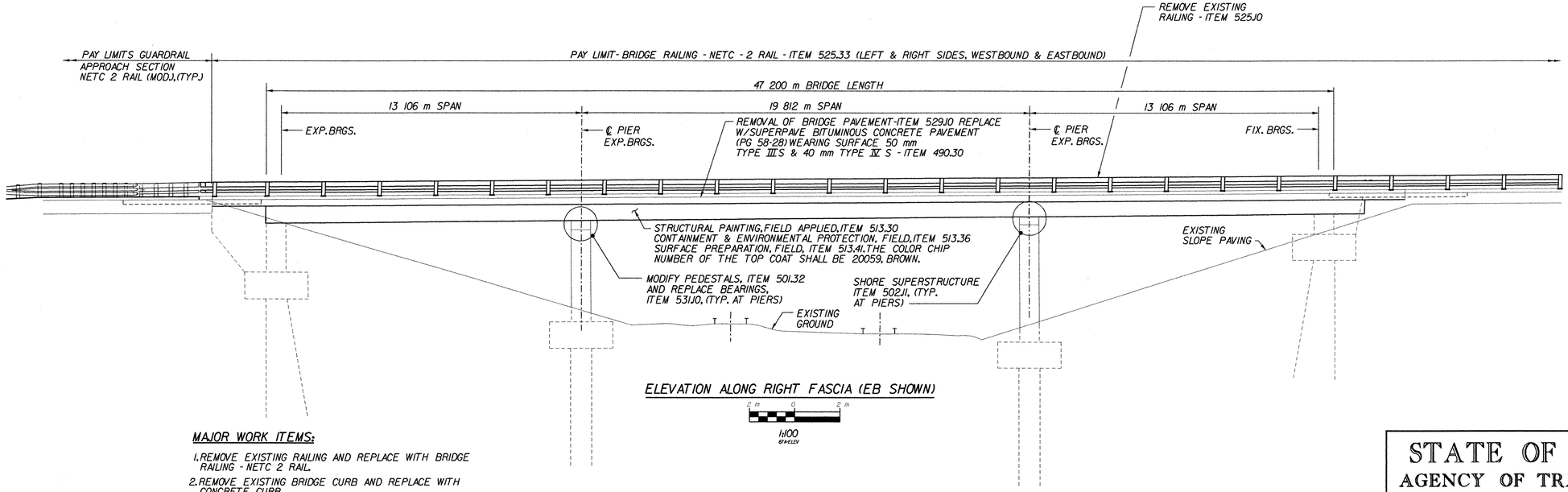


THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON LIMITED FIELD INVESTIGATION AND RECORD DRAWINGS AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS. ALL DIMENSIONS AND JOINT LOCATIONS SHALL BE FIELD CHECKED BY THE CONTRACTOR PRIOR TO SUBMISSION OF FABRICATION DRAWINGS FOR APPROVAL.

LIST OF BRIDGE SHEETS	
BRII00	PLAN AND ELEVATION
BRII01	EXISTING TRANSVERSE BRIDGE SECTIONS
BRII02	BRIDGE QUANTITY SHEET
BRII03	BRIDGE RAILING AND CURB DETAILS
BRII04	EXPANSION JOINTS AT WEST ABUTMENTS
BRII05	JOINT DETAILS
BRII06	BEARING LAYOUT PLAN AND DETAILS
BRII07	PEDESTAL DETAILS



ELEVATION ALONG RIGHT FASCIA (EB SHOWN)

2 m 0 2 m

1:100

6'-6 1/2"

MAJOR WORK ITEMS:

1. REMOVE EXISTING RAILING AND REPLACE WITH BRIDGE RAILING - NETC 2 RAIL.
2. REMOVE EXISTING BRIDGE CURB AND REPLACE WITH CONCRETE CURB.
3. REMOVE EXISTING BITUMINOUS PAVEMENT AND REPLACE WITH SUPERPAVE BITUMINOUS PAVEMENT.
4. REPAIR CONCRETE DECK AS NEEDED.
5. CLEAN AND PAINT SUPERSTRUCTURE.
6. SHORE SUPERSTRUCTURE, MODIFY ALL PIER PEDESTALS AND REPLACE ALL PIER BEARINGS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRII00
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+780
VT. RTE. 279 OVER VT. RAILWAY	
PLAN AND ELEVATION	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRII00	Sheet 67 OF 83

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III WINNERS CIRCLE - ALBANY, NEW YORK - 12205
518-453-4500

FILE NAME =ut\12502\mstn\final\rr\brg\rr-plel.plt
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USER =2225

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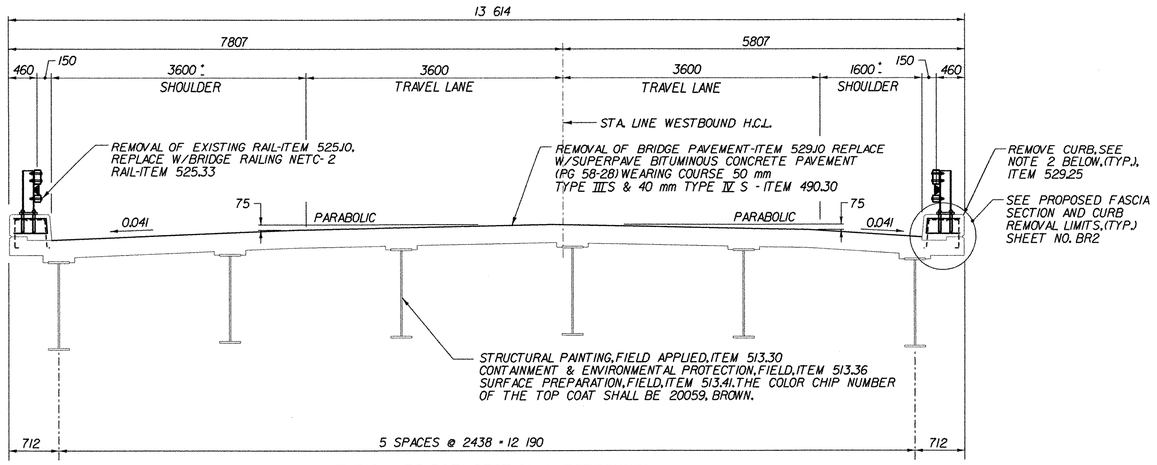
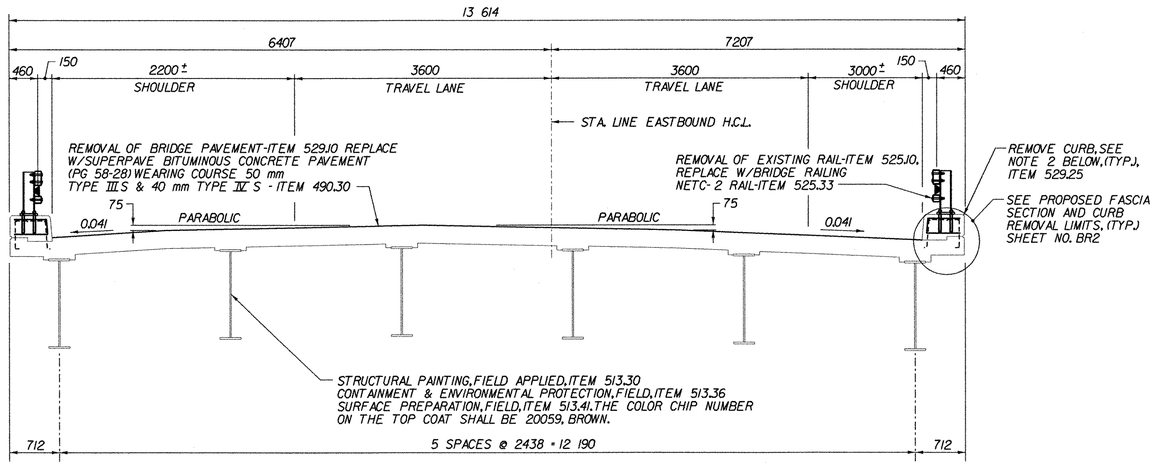


TYPICAL BRIDGE SECTION (WESTBOUND)

.8 m 0 .8 m

1:40



TYPICAL BRIDGE SECTION (EASTBOUND)

.8 m 0 .8 m

1:40

RAILING ANCHORAGE NOTES:

1. NEW ASTM A449-22 mm DIAMETER ANCHOR BOLTS TO BE CAST-IN-PLACE SHALL BE FURNISHED WITH TWO NUTS AND ONE WASHER. BOLTS, NUTS AND WASHERS SHALL BE FURNISHED UNDER ITEM 525.33, BRIDGE RAILING-NETC 2 RAIL.

NOTES:

1. SEE SHEET NO. BR3 FOR ASPHALT OVERLAY REMOVAL AND REPLACEMENT NOTES AND FOR DECK SLAB REPAIR DETAILS.
2. SEE SHEET NO. BR2 FOR CURB REMOVAL AND REPLACEMENT DETAILS.

LOAD FACTOR LOAD RATING (METRIC TONS)

LOADING LEVELS (LOAD FACTOR)	TRUCK						
	M	MS	3S2	6 AXLE	3A.STR.	4A.STR.	5A.SEMI
INVENTORY A = 2.17, B = 1.00	20	36					
POSTED A = 1.55, B = 1.80	28	51	56		50	55	62
OPERATING A = 1.30, B = 1.67		61	67	66	54	58	

$$RF = \frac{\emptyset\, Mn - 1.3\, M_{DL}}{A \times M_{LL} + I}$$

*SERVICEABILITY RF= B

$$\frac{.95\, F_Y\, S_{LL+I} - M_{DL}\frac{S_{LL+I}}{S_{DL}} - M_{SDL}\frac{S_{LL+I}}{S_{SDL}}}{1.67\, M_{LL+I}}$$

PROJECTED TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2000	5300	-	-	-	-
2020	6600	840	52%	7%	460

20 YEAR ESAL FOR FLEXIBLE PAVEMENT FROM 2000 TO 2020 = 4,825,000
40 YEAR ESAL FOR FLEXIBLE PAVEMENT FROM 2000 TO 2040 = 17,229,000
DESIGN SPEED: 100 km/h

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STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRII00
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+780
VT. RTE. 279 OVER VT. RAILWAY	
EXISTING TRANSVERSE BRIDGE SECTIONS	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRII01	Sheet 68 OF 83

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EARTHWORK

V.C.	% GRD	STATION	ELEVATION ON TANGENT	ELEVATION ON V.C.	CORR. V.C	DIST.	AREA	m^3	AREA	m^3	AREA	m^3	AREA	m^3

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DATE/TIME = 2/7/2004
USER = 2252

BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES SECTION

NO.	ITEM	UNIT	QUANTITY BREAKDOWN (EB) SUPER-STRUCTURE	ABUTMENT 3	ABUTMENT 4	PIER 3	PIER 4	APPROACH SLABS	QUANTITY BREAKDOWN (WB) SUPER-STRUCTURE	ABUTMENT 1	ABUTMENT 2	PIER 1	PIER 2	APPROACH SLABS		TOTAL	FINAL
490.30	SUPERPAVE BIT.CONC.PAVEMENT (PG 58-28)	t	185						236							421	
501.32	CONCRETE HIGH PERFORMANCE CLASS AA	m^3	24			1	1		30			1	1			58	
502.10	SHORING SUPERSTRUCTURE (BRI100)	LS				0.25	0.25					0.25	0.25			1	
507.15	REINFORCING STEEL	kg	2035			107	108		2589			107	108			5054	
507.16	DRILLING AND GROUTING DOWELS	m				23	23					23	23			92	
513.30	STRUCTURAL PAINTING,FIELD APPLIED (BRI100)(82 1)	LS	0.5						0.5							1	
513.36	CONTAINMENT & ENVIRONMENTAL PROTECTION,FIELD (BRI100)	LS	0.5						0.5							1	
513.41	SURFACE PREPARATION, FIELD (BRI100)	LS	0.5						0.5							1	
514.10	WATER REPELLENT	L	65						85							150	
516.10	BRIDGE EXPANSION JOINT (ASPHALTIC PLUG TYPE)	m	14						14							28	
516.10	BRIDGE EXPANSION JOINT (VERMONT TYPE)(MOD.)	m	15						15							30	
519.20	SHEET MEMBRANE WATERPROOFING (TORCH APPLIED)(MOD.)	m^2	755						768							1523	
524.21	JOINT SEALER,POLYURETHANE	m	35						45							80	
525.10	REMOVAL OF EXISTING RAIL	m	135						172							307	
525.33	BRIDGE RAILING - NETC 2 RAIL	m	135						172							307	
529.10	REMOVAL OF BRIDGE PAVEMENT	m^2	857						1092							1949	
529.20	PARTIAL REMOVAL OF STRUCTURE	EA				0.5	0.5					0.5	0.5			2	
529.25	REMOVAL OF CONCRETE OR MASONRY	m^3	24						30							54	
531.10	BEARING DEVICE ASSEMBLY (STEEL LAMINATED ELASTOMERIC)	EA				6	6					6	6			24	
580.10	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS I	m^2	12						12							24	
580.11	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS II	m^2	10						10							20	
580.12	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS III	m^3	10						10							20	
580.16	SURFACE PREPARATION FOR MEMBRANE	m^2	30						30							60	
580.17	RAPID SETTING CONCRETE REPAIR MATERIAL	m^3	1						1							2	
635.10	MOBILIZATION	LS														0.2	
641.10	TRAFFIC CONTROL	LS														0.2	
641.10	TRAFFIC CONTROL	LS														0.2	
641.10	TRAFFIC CONTROL (MOD.)	LS														0.2	

BRIDGE AT STATION (S) 17+780
LOCATION VT. RTE. 279 OVER VT. RAILWAY

Prepared By: D. STECIAK | Checked By: M.W. OLSTAD
SUPERVISOR: M. W. OLSTAD

BENNINGTON-HOOSICK
BR 1102 OF

PROJECT NO. D.P.I. 0146(11) C/6
SHEET NO. 69 OF 83

Metric

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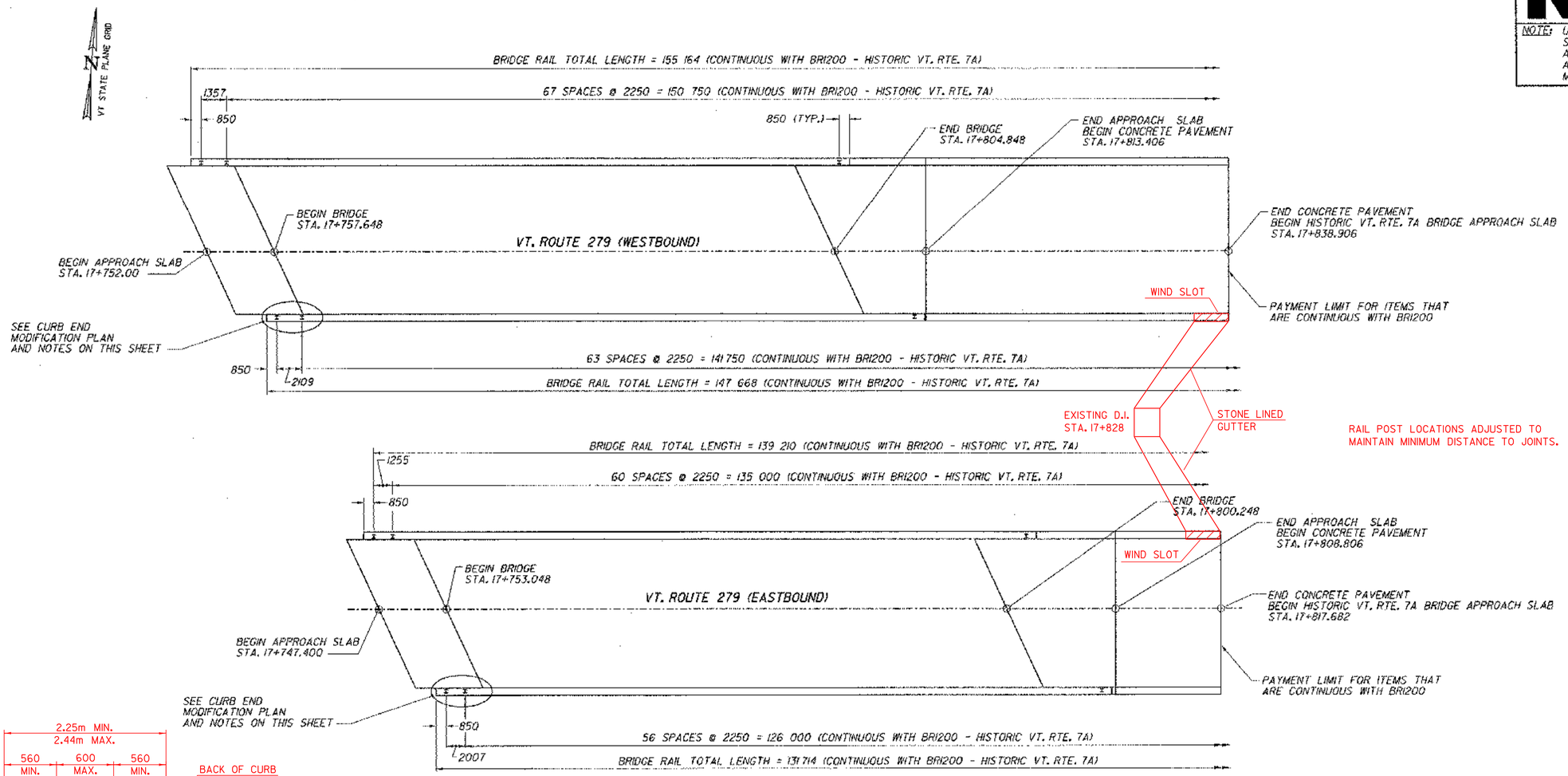
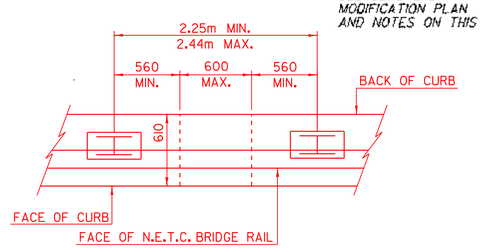


RAIL POST LOCATIONS ADJUSTED TO MAINTAIN MINIMUM DISTANCE TO JOINTS.

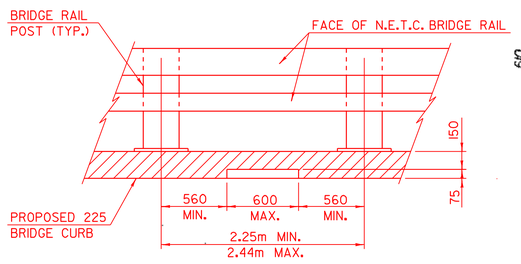
RAILING LAYOUT PLAN

4 m 0 4 m

1:200



PLAN

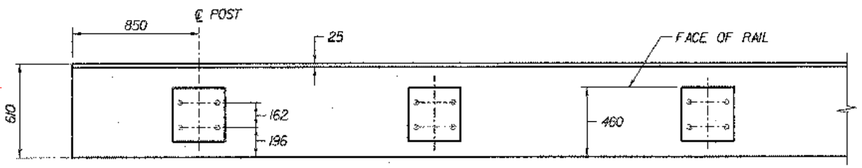


ELEVATION

WIND SLOT DETAIL

NOTE:

1. WIND SLOTS SHALL BE CONSTRUCTED AS DIRECTED BY THE RESIDENT ENGINEER. ALL PROPOSED REBAR SHOWN ON THE CONTRACT PLANS IN THE AREA OF A WIND SLOT SHALL BE ADJUSTED ACCORDINGLY AS DIRECTED BY THE RESIDENT ENGINEER. ALL WORK ASSOCIATED WITH THE CONSTRUCTION OF THE WIND SLOTS SHALL BE CONSIDERED SUBSIDIARY TO ITEM 501.32 CONCRETE HIGH PERFORMANCE CLASS AA OR AS DIRECTED BY THE RESIDENT ENGINEER.



TYPICAL CURB END MODIFICATION PLAN

4 m 0 4 m

1:20

CURB END MODIFICATION NOTES:

1. EXISTING CONCRETE SHALL BE SAW CUT 25 mm DEEP AT ENDS AND ALONG CENTER OF SCORE MARK BEFORE REMOVING.
2. REMOVAL OF CURBING AND CONCRETE AT EACH CORNER OF BRIDGE WILL BE PAID FOR UNDER ITEM 529.25, REMOVAL OF CONCRETE OR MASONRY.
3. EXISTING CONCRETE SHALL BE THOROUGHLY COATED WITH NEAT CEMENT PASTE BEFORE NEW CONCRETE IS POURED AS PER SUBSECTION 501.13B.
4. NEW CONCRETE IN CURB SECTIONS WILL BE CONCRETE, HIGH PERFORMANCE CLASS AA, ITEM 501.32

NOTE:

1. SEE SHEET BRI203 FOR CONTINUATION OF BRIDGE RAIL LAYOUT.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI00
	Log Sta.
Highway No. VT. RTE. 279	Surv. Sta. 17+780

VT. RTE. 279 OVER VT. RAILWAY

BRIDGE RAILING AND CURB DETAILS

Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 014610 C/6
I.G.C. Info.	
Bridge Sheet No. BRI03	Sheet 70 OF 83

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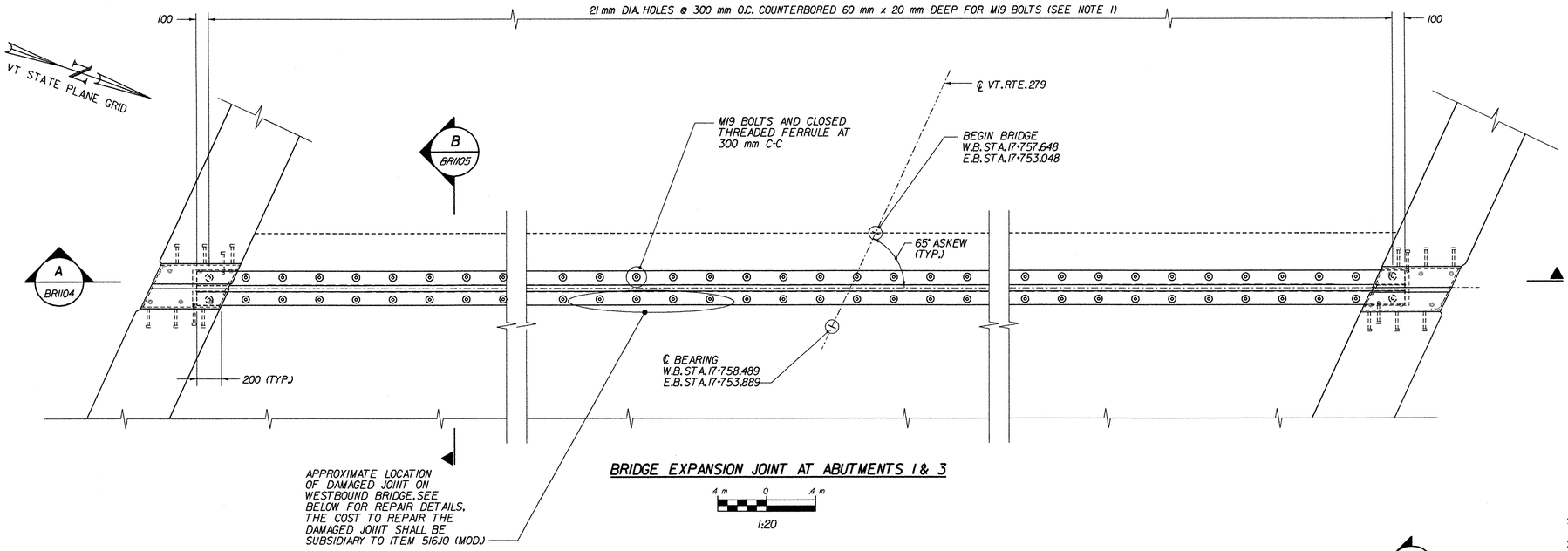
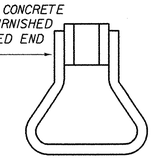


BRIDGE EXPANSION JOINT AT ABUTMENTS 1 & 3

.4 m 0 .4 m

1:20

THREADED CONCRETE ANCHOR FURNISHED WITH CLOSED END FERRULE

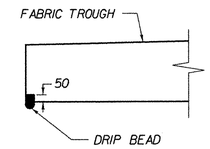


NOTE:

THREADED CONCRETE ANCHORS MAY BE SUBSTITUTED FOR CLOSED THREADED FERRULES. CLOSED THREADED FERRULES MUST BE TACK WELDED TO JOINT ANGLE.

ANCHOR FERRULE DETAIL

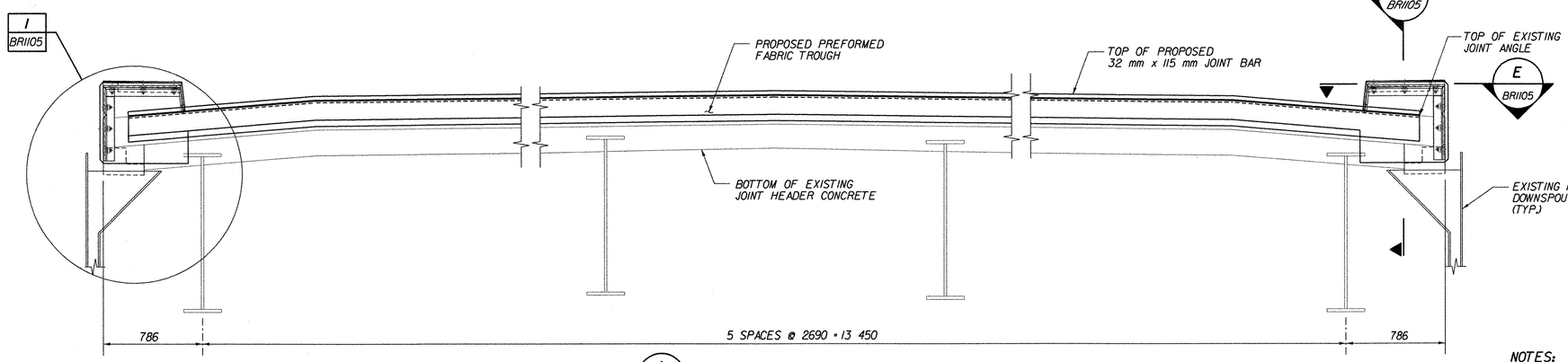
N.T.S.



A DRIP BEAD, FABRICATED FROM PREFORMED MATERIAL, IS TO BE MADE ON THE UNDERSIDE OF THE FABRIC TROUGH AS SHOWN, WITH THE COST TO BE SUBSIDIARY TO ITEM 516.10 "BRIDGE EXPANSION JOINT", (VERMONT TYPE) (MOD.)

2 BRII105 **DRIP BEAD DETAIL**

N.T.S.



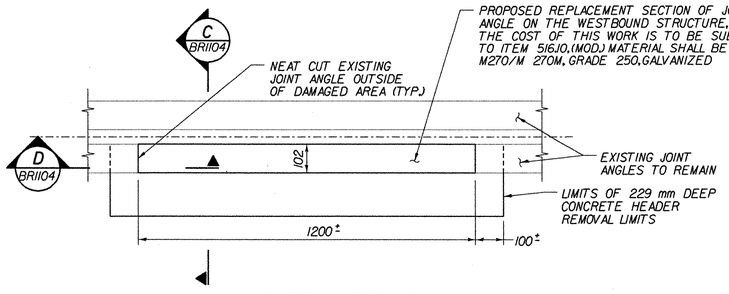
A BRII104 BRIDGE SECTION AT JOINT

.4 m 0 .4 m

1:20

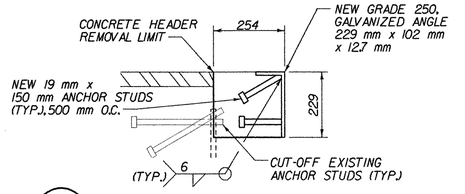
NOTES:

1. ADJUST SPACING OF 21 mm DIA. HOLES, WELDED STUDS, AND CLOSED THREADED FERRULES FOR CLEARANCE IN AREAS OF EXISTING BRACKETS AND ANCHOR STUDS.
2. ALL WORK REQUIRED TO PERFORM THE MODIFICATION OF THE EXPANSION JOINTS SHALL BE INCLUDED IN ITEM 516.10 BRIDGE EXPANSION (VERMONT TYPE) (MOD.).



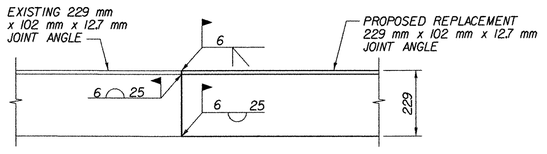
JOINT REPAIR DETAIL PLAN

N.T.S.



C BRII104 PROPOSED REPLACEMENT SECTION OF ANGLE

N.T.S.



D BRII104 PROPOSED ANGLE WELDS

N.T.S.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRII00
Highway No. VT. RTE. 279	Log Sta. / Surv. Sta. 17+780
VT. RTE. 279 OVER VT. RAILWAY	

EXPANSION JOINTS AT WEST ABUTMENTS

Designed By D. STECIAK	Drawn by K. RAPELLO/B. WEATHERBY
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRII04	Sheet 71 OF 83

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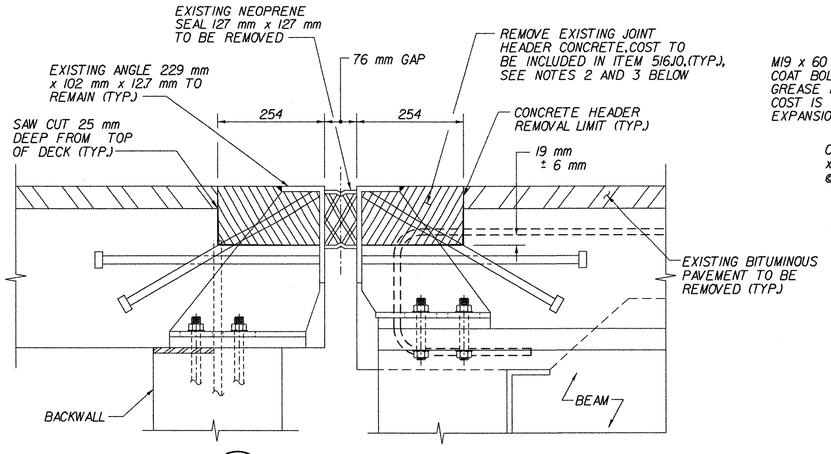
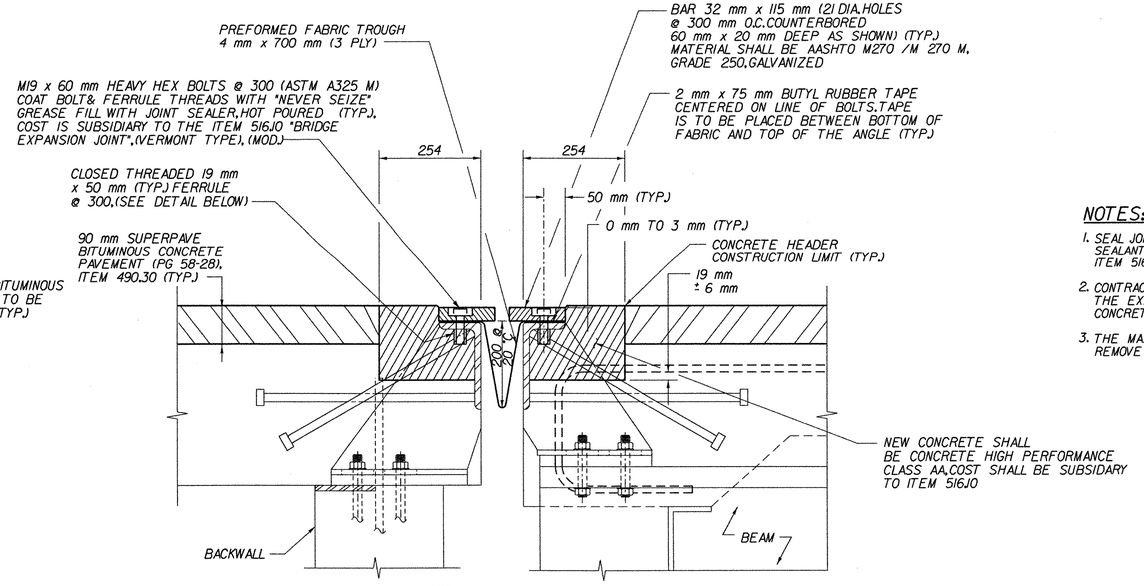


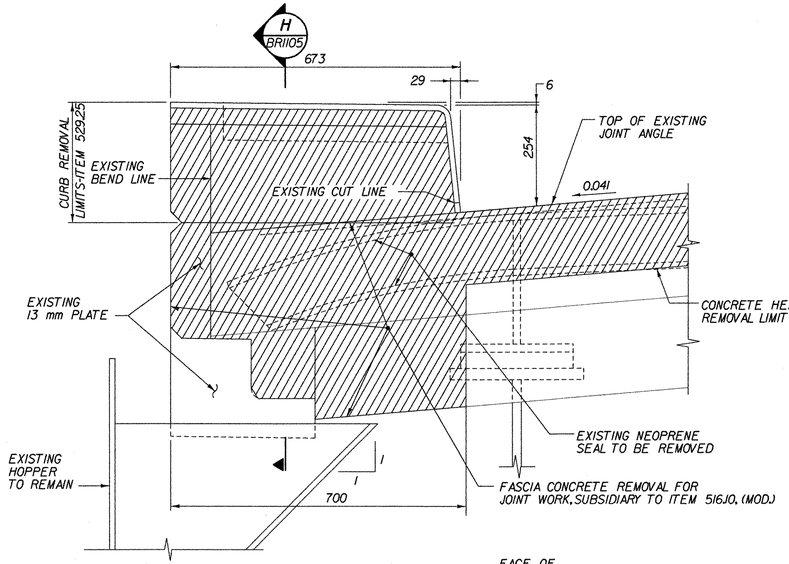
B BRII104 EXISTING SECTION N.T.S.



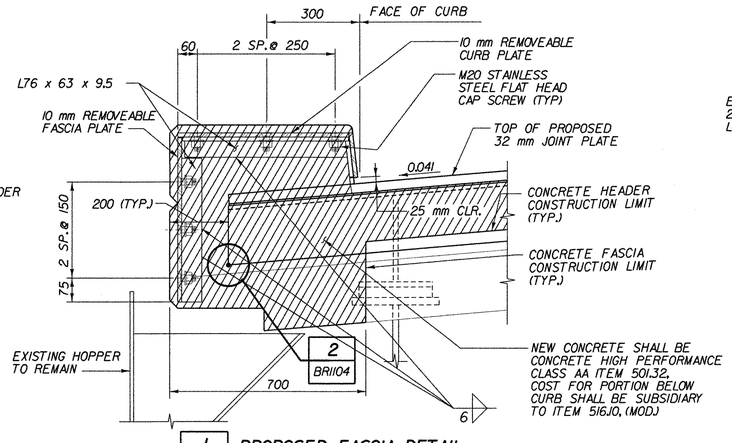
B BRII104 PROPOSED SECTION N.T.S.

NOTES:

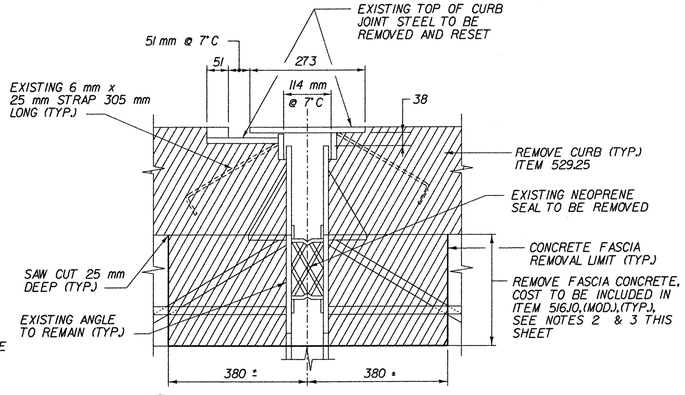
1. SEAL JOINTS BETWEEN PLATES WITH SILICONE SEALANT. COST TO BE INCLUDED IN ITEM 516J0.(MOD.).
2. CONTRACTOR SHALL USE CARE NOT TO DAMAGE THE EXISTING JOINT COMPONENTS DURING CONCRETE HEADER REMOVAL OPERATIONS.
3. THE MAXIMUM SIZE AIR HAMMER USED TO REMOVE JOINT HEADER CONCRETE SHALL BE 7 kg.



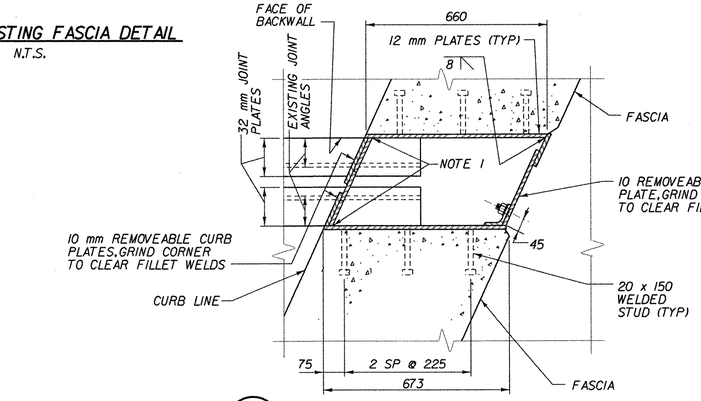
I BRII104 EXISTING FASCIA DETAIL N.T.S.



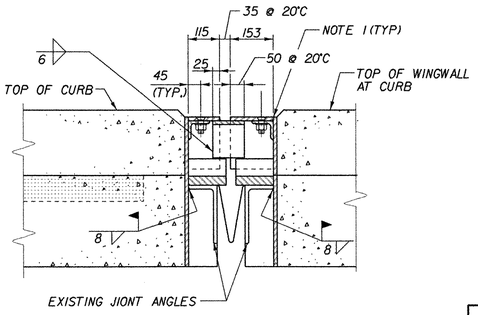
I BRII104 PROPOSED FASCIA DETAIL N.T.S.



H BRII105 EXISTING JOINT SECTION AT CURB N.T.S.



E BRII104 PROPOSED PARTIAL JOINT PLAN N.T.S.



F BRII104 PROPOSED JOINT SECTION AT CURB N.T.S.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRII00
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VT. RTE. 279 OVER VT. RAILWAY	
JOINT DETAILS	
Designed By D. STECIAK	Drawn by K. RAPELLO/B. WEATHERBY
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
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Bridge Sheet No. BRII05	Sheet 72 OF 83

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Metric

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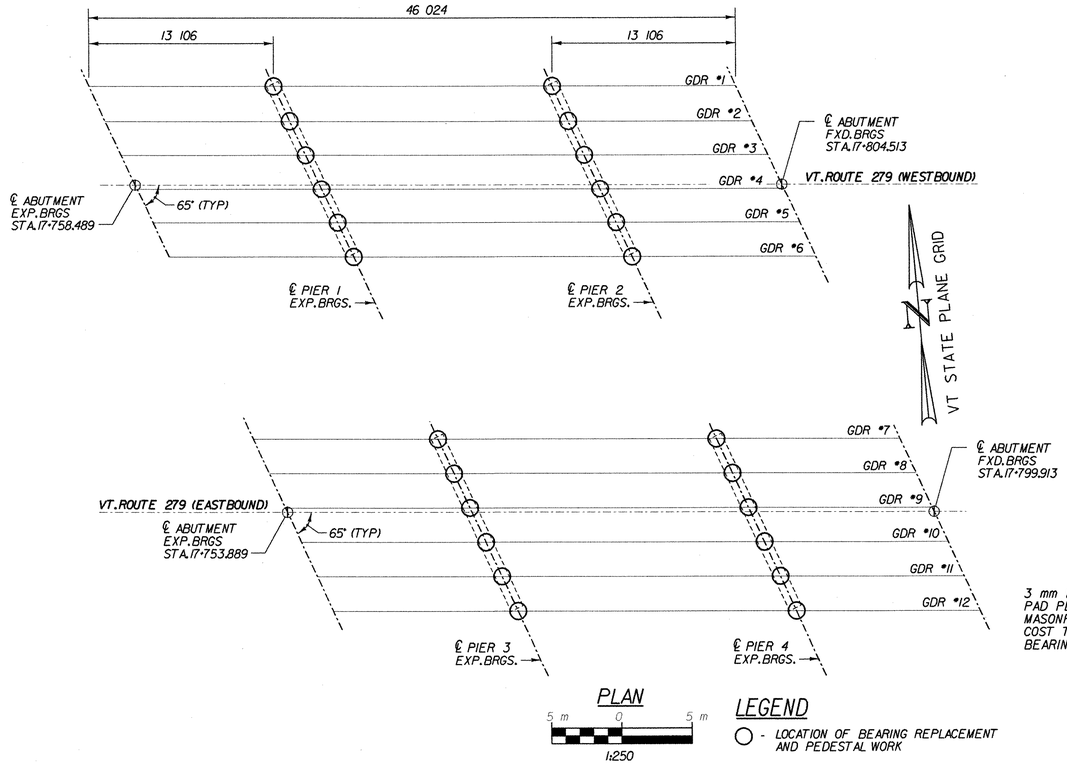


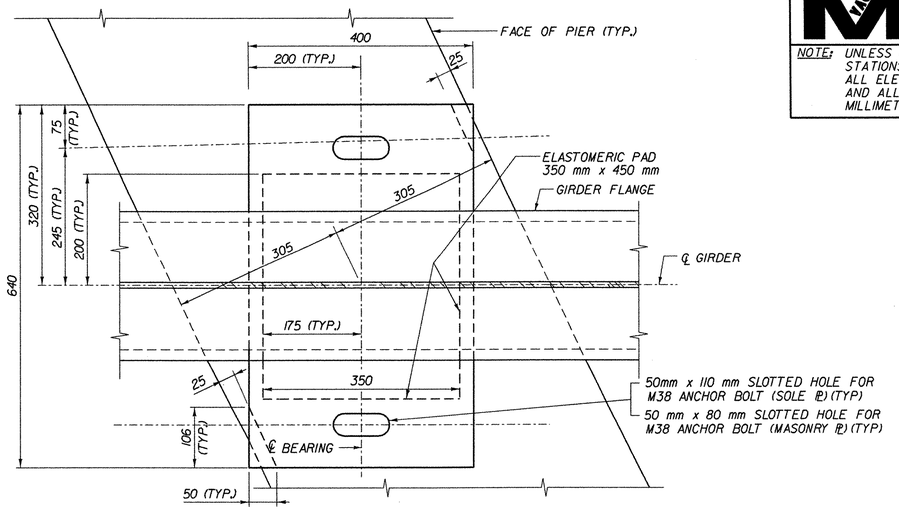
PLAN

5 m 0 5 m

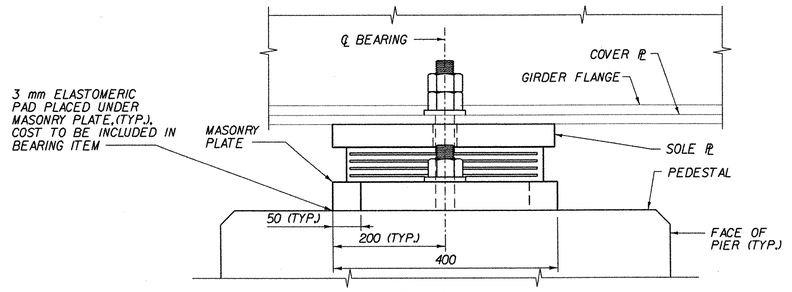
1:250

LEGEND

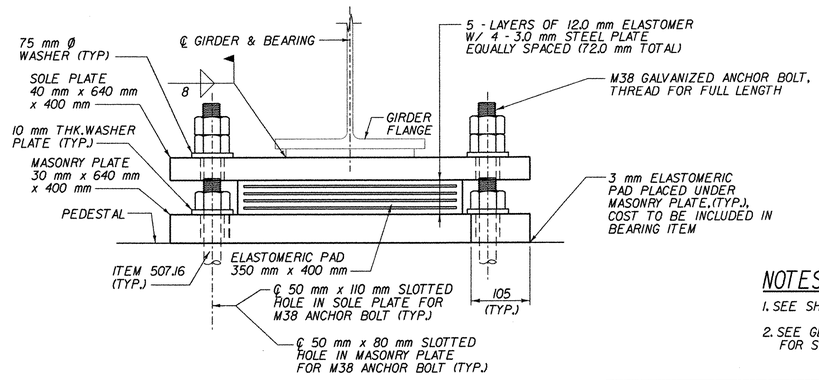
○ - LOCATION OF BEARING REPLACEMENT AND PEDESTAL WORK



PLAN VIEW



ELEVATION

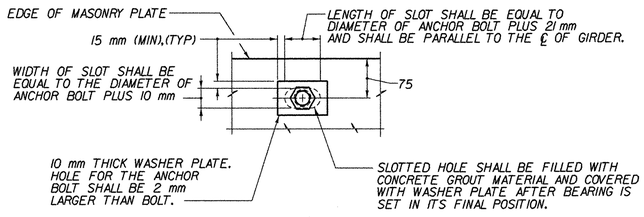


EXPANSION BEARING AT PIERS (FRONT VIEW)

BEARING DETAILS

1 m 0 1 m

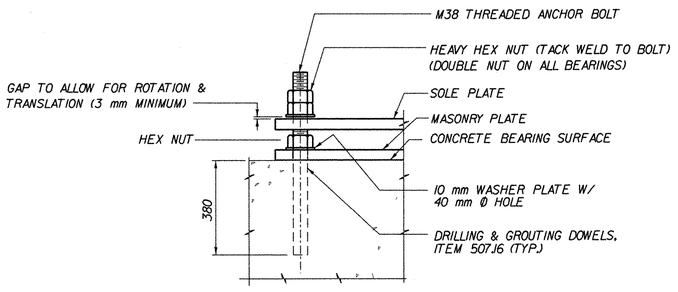
1:5



TYPICAL ANCHOR BOLT DETAIL FOR MASONRY PLATE

2 m 0 2 m

1:10



TYPICAL ANCHOR BOLT DETAIL

2 m 0 2 m

1:10

BEARING TABLE						
LOCATION	TYPE	ITEM NO.	QUANTITY REQUIRED	CAPACITY (kN)	SHAPE FACTOR	MAX.REACTION (kN)
PIERS	EXP.	531.10	24	674	7.35	633

NOTE:

THE DEAD LOAD JACKING FORCE IS APPROXIMATELY 396 kN PER BEARING.

NOTES:

1. SEE SHEET NO.BRI FOR BEARING NOTES.
2. SEE GENERAL NOTE 13 ON SHEET NO.BRI FOR SHOP DRAWING DISTRIBUTION LIST.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI100
	Log Sta.
Highway No. VT. RTE. 279	Surv. Sta. 17+780
VT. RTE. 279 OVER VT. RAILWAY	
BEARING LAYOUT PLAN AND DETAILS	
Designed By D. STECIAK	Drawn by K. RAPELLO/B. WEATHERBY
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRI106	Sheet 73 OF 83

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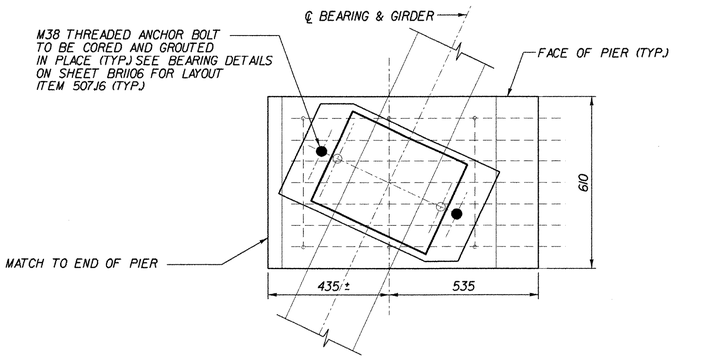
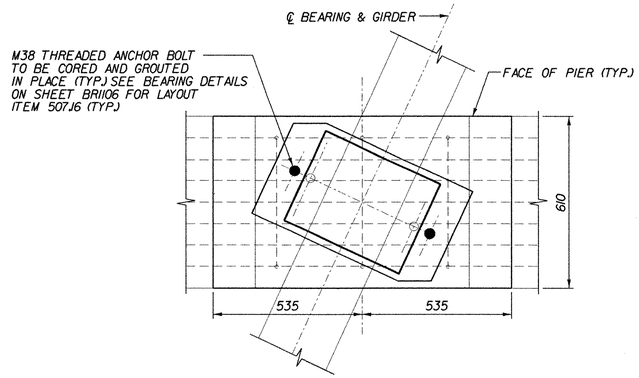
III WINNERS CIRCLE - ALBANY, NEW YORK - 12205
518-453-4500



FASCIA PEDESTAL PLAN

2 m 0 2 m

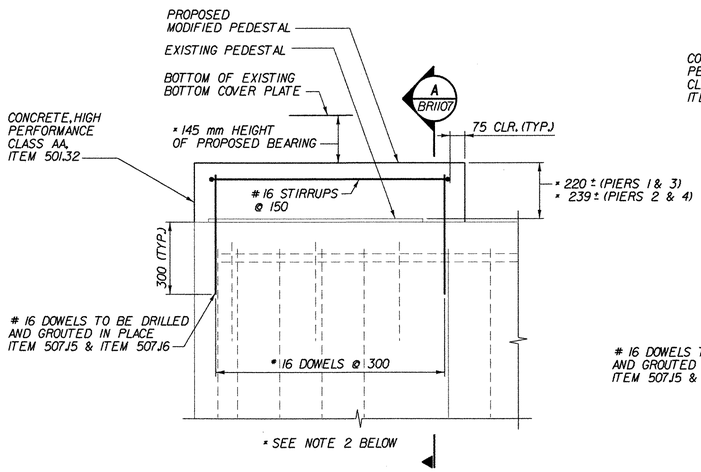
1:10



INTERIOR PEDESTAL PLAN

2 m 0 2 m

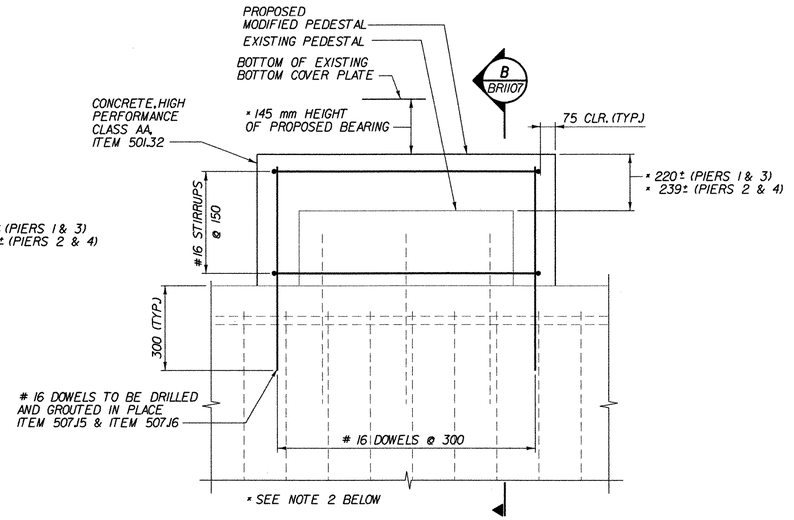
1:10



FASCIA PEDESTAL ELEVATION

2 m 0 2 m

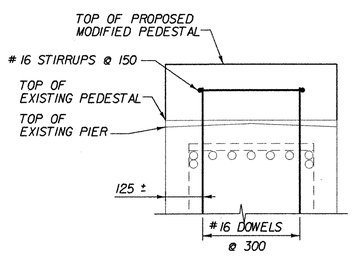
1:10



INTERIOR PEDESTAL ELEVATION

2 m 0 2 m

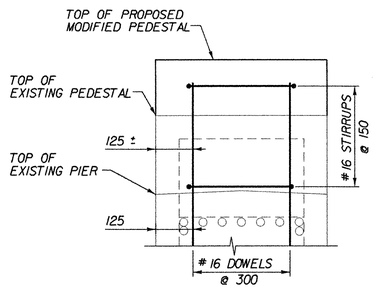
1:10



A BRII07 **FASCIA PEDESTAL SECTION**

2 m 0 2 m

1:10



B BRII07 **INTERIOR PEDESTAL SECTION**

2 m 0 2 m

1:10

Metric

NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.

NOTES:

1. TOP OF EXISTING ANCHOR BOLTS SHALL BE CUT OFF TO MAINTAIN A MINIMUM OF 50 mm COVER IF NECESSARY. COST TO BE SUBSIDIARY TO ITEM 531J0.
2. TOP OF PROPOSED PEDESTALS SHALL BE ADJUSTED TO MATCH EXISTING GIRDER ELEVATIONS AND TO FIT THE ACTUAL BEARING SUPPLIED BY THE CONTRACTOR.
3. EXISTING CONCRETE SHALL BE THOROUGHLY COATED WITH NEAT CEMENT PASTE BEFORE NEW CONCRETE IS POURED AS PER SUBSECTION 501J3B.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRII00
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+780
VT. RTE. 279 OVER VT. RAILWAY	
PEDESTAL DETAILS	
Designed By D. STECIAK	Drawn by B. WEATHERBY
Checked By M.W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRII07	Sheet 74 OF 83

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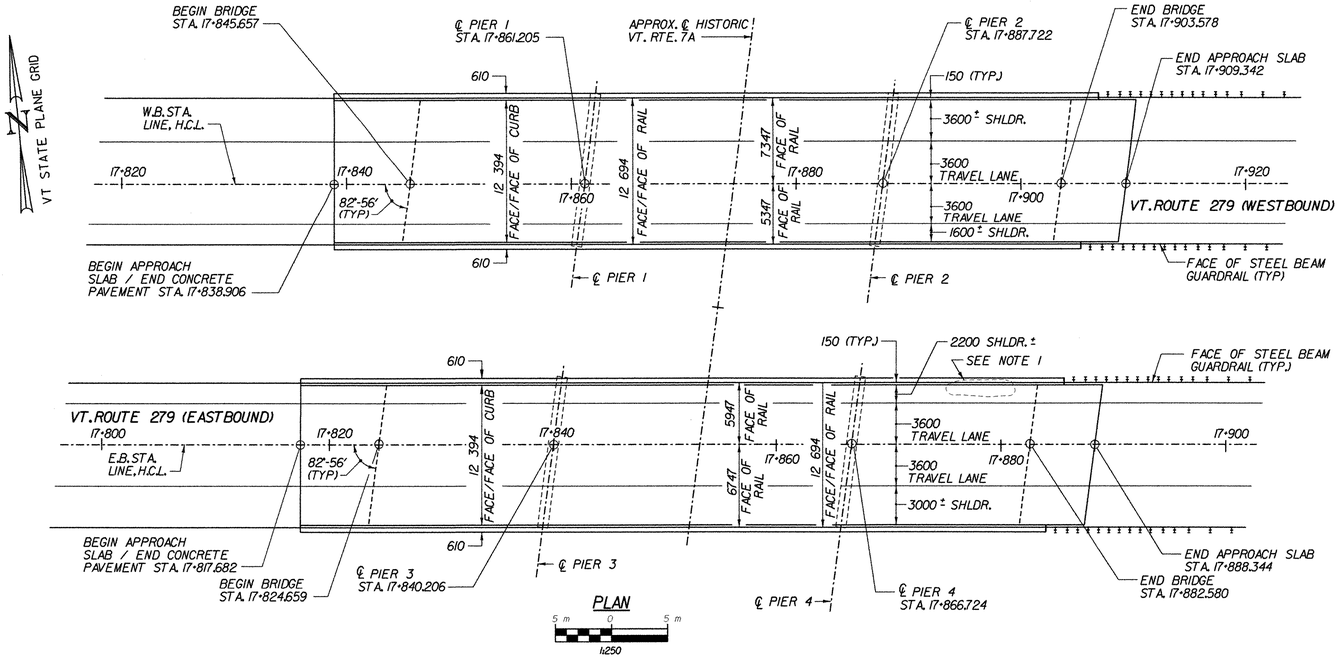
III WINNERS CIRCLE - ALBANY, NEW YORK - 12205
518-453-4500

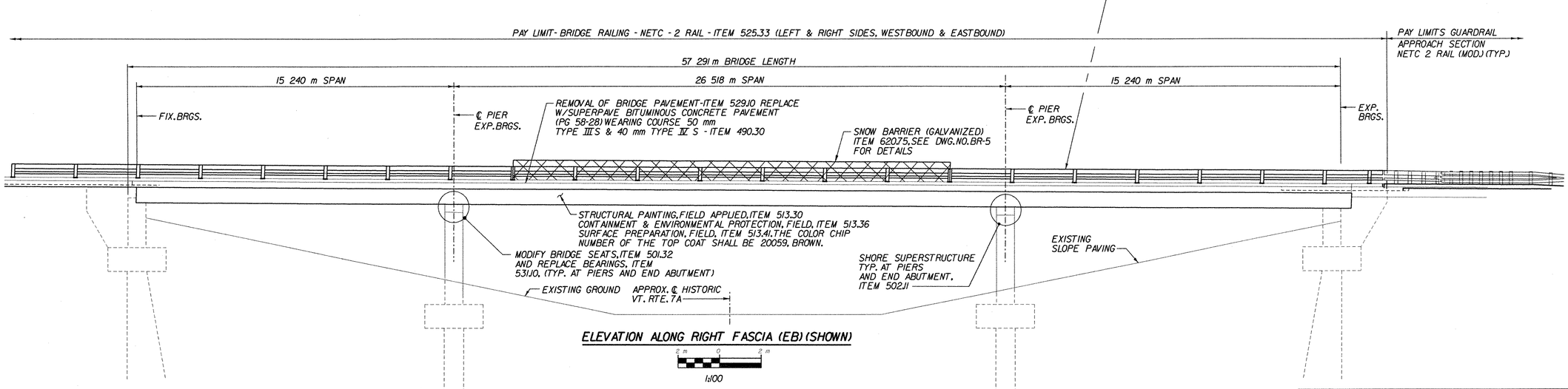
FILE NAME =u:\12502\mstn\final\rr\brg\12502_rr-ped-dets.dgn
DATE/TIME =2/17/2004
USER =2225

NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS. ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.



THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON LIMITED FIELD INVESTIGATION AND RECORD DRAWINGS AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS. ALL DIMENSIONS AND JOINT LOCATIONS SHALL BE FIELD CHECKED BY THE CONTRACTOR PRIOR TO SUBMISSION OF FABRICATION DRAWINGS FOR APPROVAL.

LIST OF BRIDGE SHEETS	
BRI200	PLAN AND ELEVATION
BRI201	EXISTING TRANSVERSE BRIDGE SECTIONS
BRI202	BRIDGE QUANTITY SHEET
BRI203	BRIDGE RAILING AND CURB DETAILS
BRI204	EXPANSION JOINTS AT EAST ABUTMENTS
BRI205	JOINT DETAILS
BRI206	BEARING LAYOUT PLAN AND DETAILS
BRI207	BEARING DETAILS
BRI208	PEDESTAL DETAILS



ELEVATION ALONG RIGHT FASCIA (EB) (SHOWN)

2 m 0 2 m

1:100

MAJOR WORK ITEMS:

1. REMOVE EXISTING RAILING AND REPLACE WITH BRIDGE RAILING - NETC 2 RAIL.
2. REMOVE EXISTING BRIDGE CURB AND REPLACE WITH CONCRETE CURB.
3. REMOVE EXISTING BITUMINOUS PAVEMENT AND REPLACE WITH SUPERPAVE BITUMINOUS PAVEMENT.
4. REPAIR CONCRETE DECK AS NEEDED.
5. CLEAN AND PAINT SUPERSTRUCTURE.
6. SHORE SUPERSTRUCTURE, MODIFY PIER AND END ABUTMENT BRIDGE SEATS, AND REPLACE ALL PIER AND END ABUTMENT BEARINGS

NOTE:

1. SETTLED PAVERS TO BE RESET ITEM 613.20, AS DIRECTED BY RESIDENT ENGINEER. SPALLED PAVERS TO BE REPLACED, ITEM 613.20, AS DIRECTED BY RESIDENT ENGINEER.

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518-453-4500

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI200
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+853
VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A	
PLAN AND ELEVATION	
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRI200	Sheet 75 OF 83

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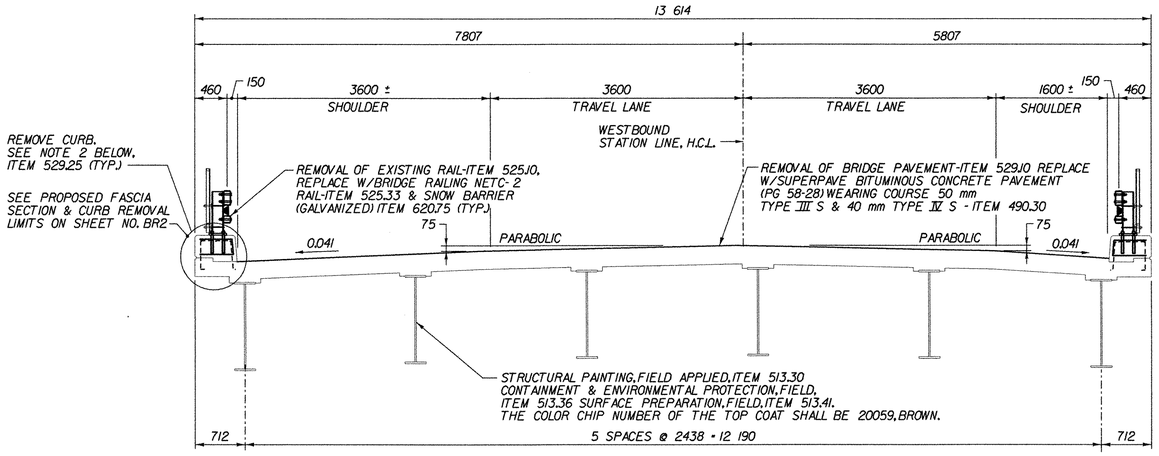
DATE/TIME = 2/17/2004
USER = 2225

Metric

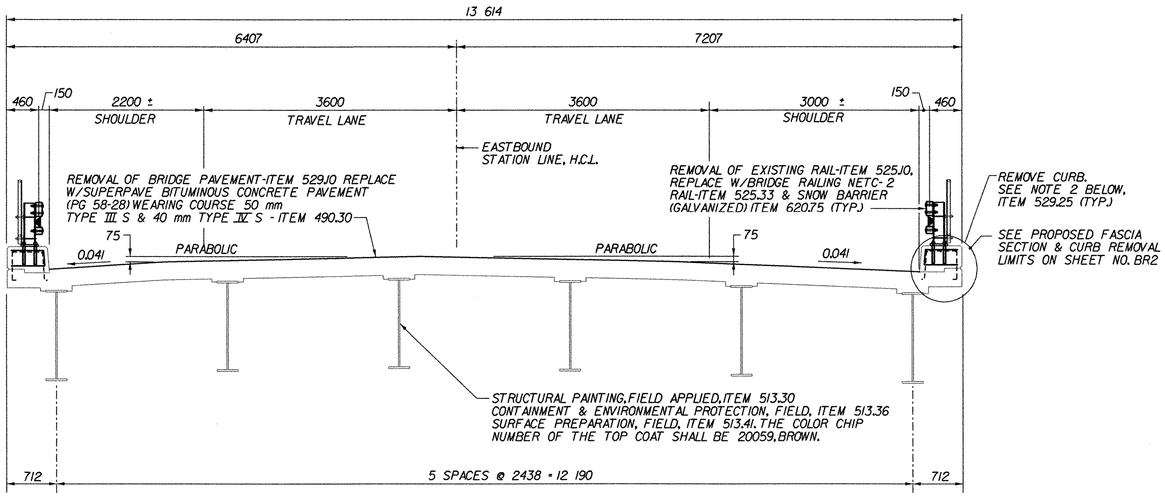
NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.



TYPICAL BRIDGE SECTION (WESTBOUND)

.8 m 0 .8 m

1:40



TYPICAL BRIDGE SECTION (EASTBOUND)

.8 m 0 .8 m

1:40

RAILING ANCHORAGE NOTE:

1. NEW ASTM A449-22 mm DIAMETER ANCHOR BOLTS TO BE CAST-IN-PLACE SHALL BE FURNISHED WITH TWO NUTS AND ONE WASHER. BOLTS, NUTS AND WASHERS SHALL BE FURNISHED UNDER ITEM 525.33. BRIDGE RAILING NETC - 2 RAIL.

LOAD FACTOR LOAD RATING (METRIC TON)							
LOADING LEVELS (LOAD FACTOR)	TRUCK						
	M	MS	3S2	6 AXLE	3A.STR.	4A.STR.	5A.SEMI
INVENTORY A = 2.17, B = 1.00	19	35	X	X	X	X	X
POSTED A = 1.55, B = 1.80	26	49	65	X	56	54	61
OPERATING A = 1.30, B = 1.67	X	58	77	77	63	64	X

$RF = \frac{\phi Mn - 1.3 M_{DL}}{A \times M_{LL} + I}$ *SERVICEABILITY RF= B $\left[\frac{.95 F_Y S_{LL+I} - M_{DL}\frac{S_{LL+I}}{S_{DL}} - M_{SDL}\frac{S_{LL+I}}{S_{SDL}}}{1.67 M_{LL+I}}\right]$

PROJECTED TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2000	5300	-	-	-	-
2020	6600	840	52%	7%	460

20 YEAR ESAL FOR FLEXIBLE PAVEMENT FROM 2000 TO 2020 : 4,825,000
40 YEAR ESAL FOR FLEXIBLE PAVEMENT FROM 2000 TO 2040 : 17,229,000
DESIGN SPEED: 100 km/h

NOTES:

1. SEE SHEET NO.BR3 FOR ASPHALT OVERLAY REMOVAL AND REPLACEMENT NOTES FOR DECK SLAB REPAIR DETAILS.
2. SEE SHEET NO.BR2 FOR CURB REMOVAL AND REPLACEMENT DETAILS.

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III WINNERS CIRCLE - ALBANY, NEW YORK - 12205
518-453-4500

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI200
Highway No. VT. RTE. 279	Log Sta. Surv. Sta. 17+853
VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A	
EXISTING TRANSVERSE BRIDGE SECTIONS	
Designed By D. STECIAK	Drawn by K. RAPELLO/WM. WEATHERBY
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.C.C. Info.	
Bridge Sheet No. BRI201	Sheet 76 OF 83

FILE NAME =u:\12502\mstn\final\7a\brg\transsht.plt
DATE/TIME = 2/17/2004
USER = 2225

EARTHWORK

V.C.	% GRD	STATION	ELEVATION ON TANGENT	ELEVATION ON V.C.	CORR. V.C	DIST.	AREA	m^3	AREA	m^3	AREA	m^3	AREA	m^3

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DATE/TIME = 2/17/2004
USER = 2225

BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES SECTION

NO.	ITEM	UNIT	QUANTITY BREAKDOWN (EB) SUPER-STRUCTURE	ABUTMENT 3	ABUTMENT 4	PIER 3	PIER 4	APPROACH SLABS	QUANTITY BREAKDOWN (WB) SUPER-STRUCTURE	ABUTMENT 1	ABUTMENT 2	PIER 1	PIER 2	APPROACH SLABS		TOTAL	FINAL
490.30	SUPERPAVE BIT.CONC.PAVEMENT (PG 58-28)	t	189						189							378	
501.32	CONCRETE HIGH PERFORMANCE CLASS AA	m^3	24		1	1	1		24		1	1	1			54	
502.10	SHORING SUPERSTRUCTURE (BRI200)	LS			0.16	0.17	0.17				0.16	0.17	0.17			1	
507.15	REINFORCING STEEL	kg	2020		64	83	83		2020		64	83	83			4500	
507.16	DRILLING AND GROUTING DOWELS	m			22	27	26				22	27	26			150	
513.30	STRUCTURAL PAINTING,FIELD APPLIED (BRI200) (1511)	LS	0.5						0.5							1	
513.36	CONTAINMENT & ENVIRONMENTAL PROTECTION,FIELD (BRI200)	LS	0.5						0.5							1	
513.41	SURFACE PREPARATION, FIELD (BRI200)	LS	0.5						0.5							1	
514.10	WATER REPELLENT	L	65						65							130	
516.10	BRIDGE EXPANSION JOINT (ASPHALTIC PLUG TYPE)	m	13						13							26	
516.10	BRIDGE EXPANSION JOINT (VERMONT TYPE) (MOD.)	m	14						14							28	
519.20	SHEET MEMBRANE WATERPROOFING (TORCH APPLIED) (MOD.)	m^2	876						873							1749	
524.21	JOINT SEALER,POLYURETHANE	m	35						35							70	
525.10	REMOVAL OF EXISTING RAIL	m	134						134							268	
525.33	BRIDGE RAILING - NETC 2 RAIL	m	134						134							268	
529.10	REMOVAL OF BRIDGE PAVEMENT	m^2	876						873							1749	
529.20	PARTIAL REMOVAL OF STRUCTURE	EA			0.33	0.33	0.34				0.33	0.33	0.34			2	
529.25	REMOVAL OF CONCRETE OR MASONRY	m^3	24						24							48	
531.10	BEARING DEVICE ASSEMBLY (STEEL LAMINATED ELASTOMERIC)	EA			6	6	6				6	6	6			36	
580.10	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS I	m^2	15						15							30	
580.11	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS II	m^2	10						10							20	
580.12	REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE - CLASS III	m^3	10						10							20	
580.16	SURFACE PREPARATION FOR MEMBRANE	m^2	36						36							72	
580.17	RAPID SETTING CONCRETE REPAIR MATERIAL	m^3	1						1							2	
613.20	SLOPE PAVING	m^2														2	
620.75	SNOW BARRIER (GALVANIZED)	m	32						32							64	
635.10	MOBILIZATION	LS														0.25	
641.10	TRAFFIC CONTROL	LS														0.25	
641.10	TRAFFIC CONTROL (MOD.)	LS														0.25	

BRIDGE AT STATION (S) 17+853
LOCATION VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A

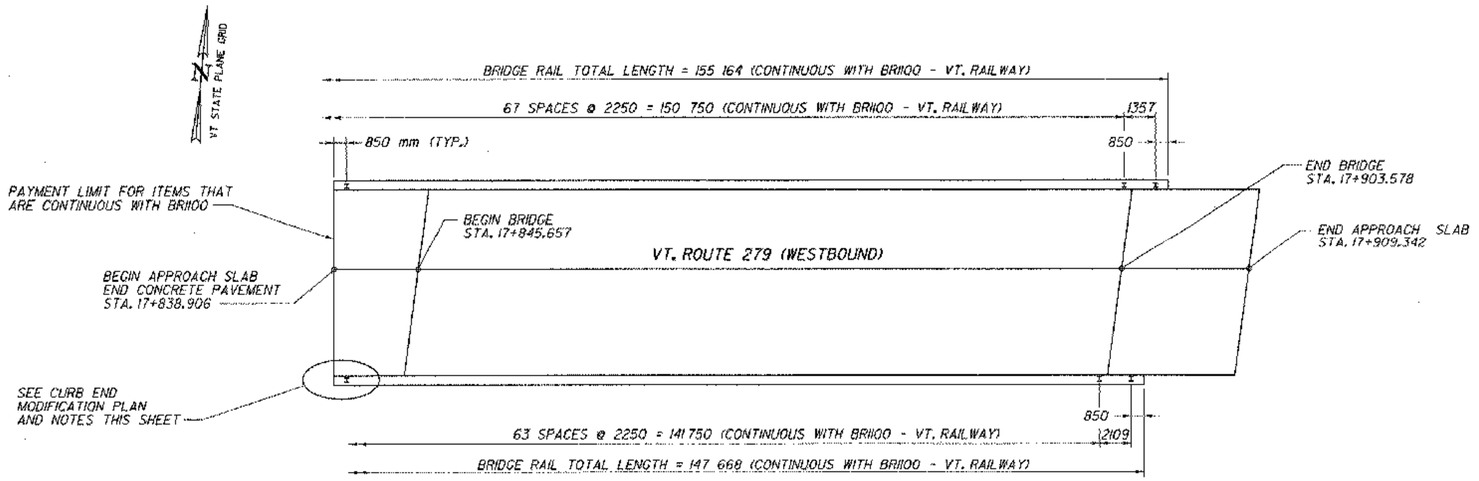
Prepared By: D. STECIAK | Checked By: M.W. OLSTAD
SUPERVISOR: M. W. OLSTAD

BENNINGTON-HOOSICK
BR 1202 OF

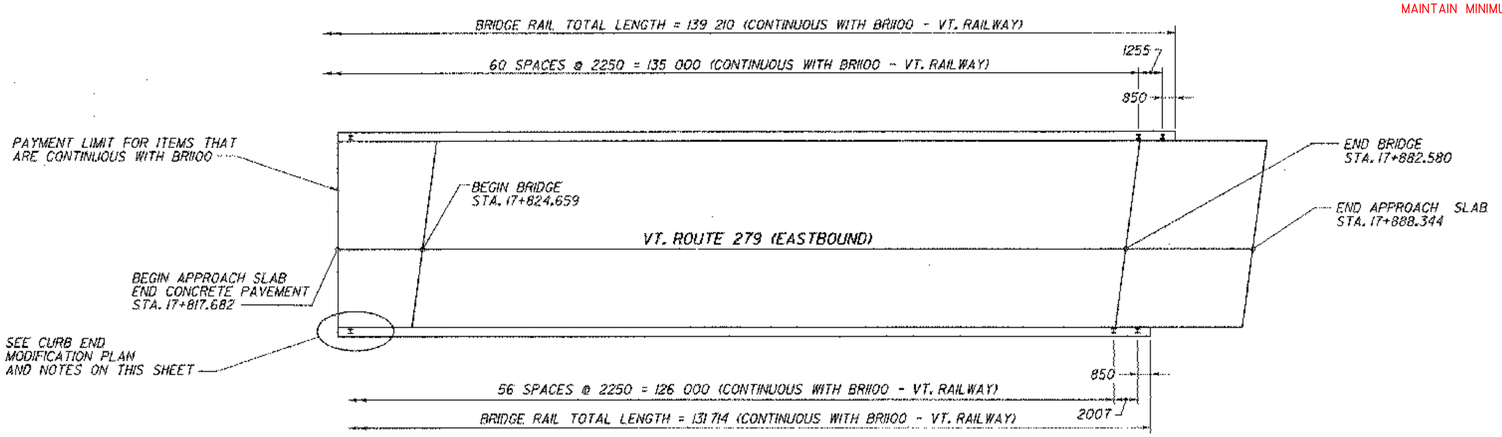
PROJECT NO. D.P.I. 0146(11) C/6
SHEET NO. 77 OF 83

Metric

NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.



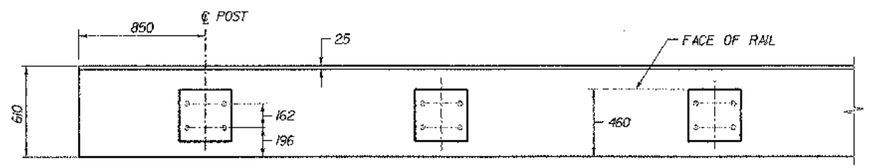
RAIL POST LOCATIONS ADJUSTED TO MAINTAIN MINIMUM DISTANCE TO JOINTS.



RAILING LAYOUT PLAN

4 m 0 4 m

1:200



TYPICAL CURB END MODIFICATION PLAN

1 m 0 1 m

1:20

CURB END MODIFICATION NOTES:

1. EXISTING CONCRETE SHALL BE SAW CUT 25 mm DEEP AT ENDS AND ALONG CENTER OF SCORE MARK BEFORE REMOVING.
2. REMOVAL OF CURBING AND CONCRETE AT EACH CORNER OF BRIDGE WILL BE PAID FOR UNDER ITEM 529.25, REMOVAL OF CONCRETE OR MASONRY.
3. EXISTING CONCRETE SHALL BE THOROUGHLY COATED WITH NEAT CEMENT PASTE BEFORE NEW CONCRETE IS POURED AS PER SUBSECTION 501.38.
4. NEW CONCRETE IN CURB SECTIONS WILL BE CONCRETE, HIGH PERFORMANCE CLASS AA ITEM 501.32.

NOTE:

1. SEE SHEET BRI103 FOR CONTINUATION OF BRIDGE RAIL LAYOUT.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI200
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+853

VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A

BRIDGE RAILING AND CURB DETAILS

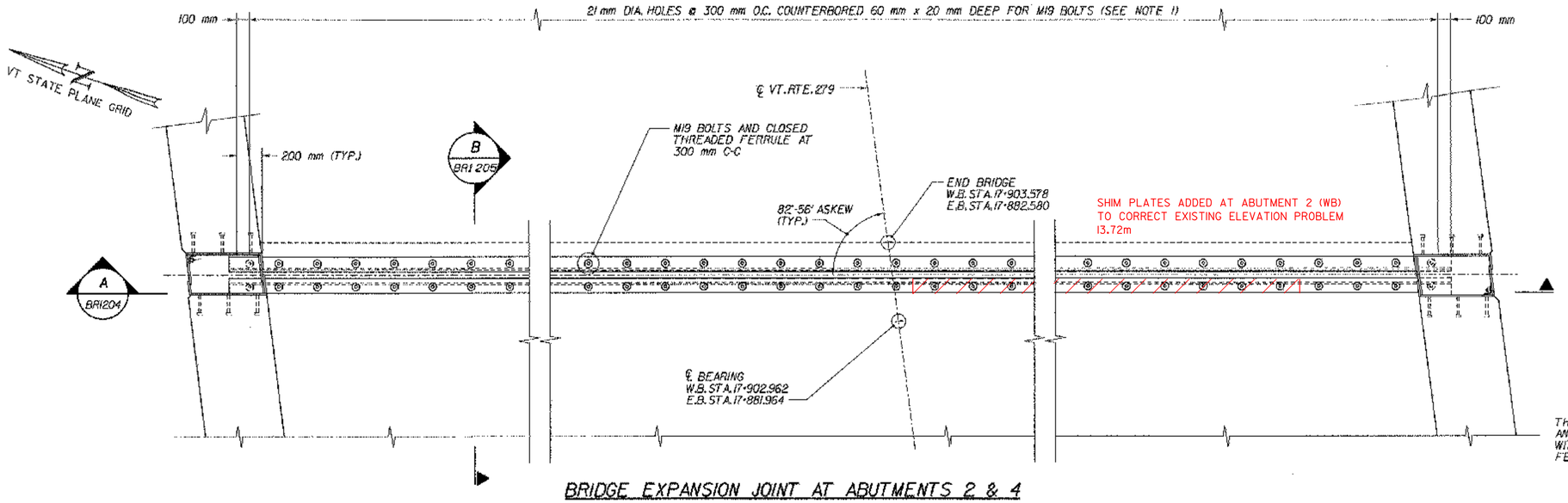
Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.U. 01460 C/6
L.G.C. Info.	
Bridge Sheet No. BRI203	Sheet 78 OF 83

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS
2 WINNERS CIRCLE - ALBANY, NEW YORK - 12205
518-453-4500

FILE NAME =u:\12502\mstn\final\7e\brgl-sishp.plt
DATE/TIME = 2/17/2004
USER =225

NOT Metric

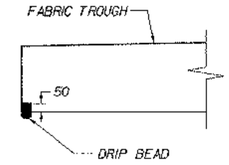
NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.



BRIDGE EXPANSION JOINT AT ABUTMENTS 2 & 4

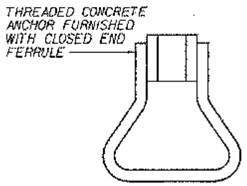
4 m 0 4 m

1:20



A DRIP BEAD, FABRICATED FROM PREFORMED MATERIAL, IS TO BE MADE ON THE UNDERSIDE OF THE FABRIC TROUGH AS SHOWN, WITH THE COST TO BE SUBSIDIARY TO ITEM 516.10 "BRIDGE EXPANSION JOINT", (VERMONT TYPE) (MOD.)

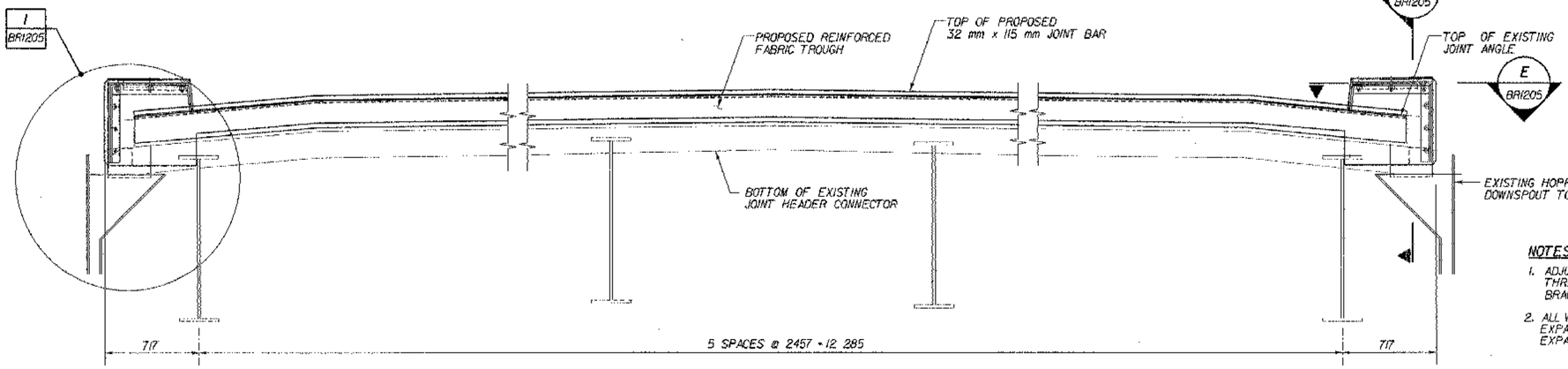
2 BRI205 — DRIP BEAD DETAIL N.T.S.



NOTE:

THREADED CONCRETE ANCHORS MAY BE SUBSTITUTED FOR CLOSED THREADED FERRULES. CLOSED THREADED FERRULES MUST BE TACK WELDED TO JOINT ANGLE.

ANCHOR FERRULE DETAIL
N.T.S.



A BRI204 — BRIDGE SECTION AT JOINT

4 m 0 4 m

1:20

NOTES:

1. ADJUST SPACING OF 21 mm DIA. HOLES, WELDED STUDS, AND CLOSED THREADED FERRULES FOR CLEARANCE IN AREAS OF EXISTING BRACKETS AND ANCHOR STUDS.
2. ALL WORK REQUIRED TO PERFORM THE MODIFICATION OF THE EXPANSION JOINTS SHALL BE INCLUDED IN ITEM 516.10 BRIDGE EXPANSION JOINT (VERMONT TYPE), (MOD.).

STATE OF VERMONT
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Town Of BENNINGTON	Bridge No. BRI200
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Highway No. VT. RTE. 279	Surv. Sta. 17+853

VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A

EXPANSION JOINTS AT EAST ABUTMENTS

Designed By D. STECIAK	Drawn by K. RAPELLO/B. WEATHERBY
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 01460 C/6
I.G.C. Info.	
Bridge Sheet No. BRI204	Sheet 79 OF 83

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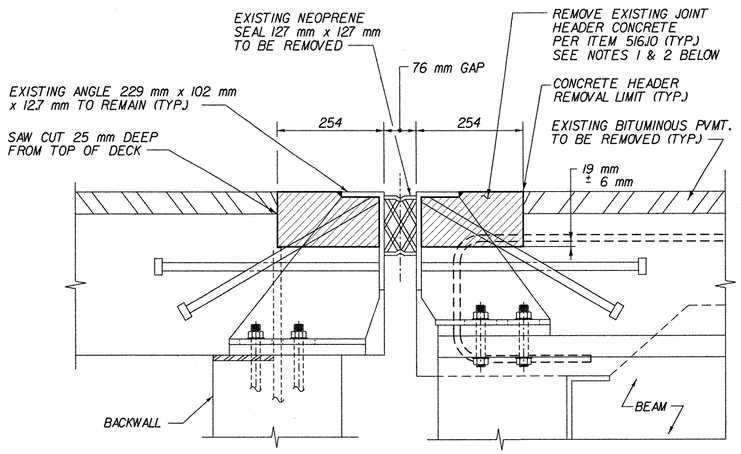
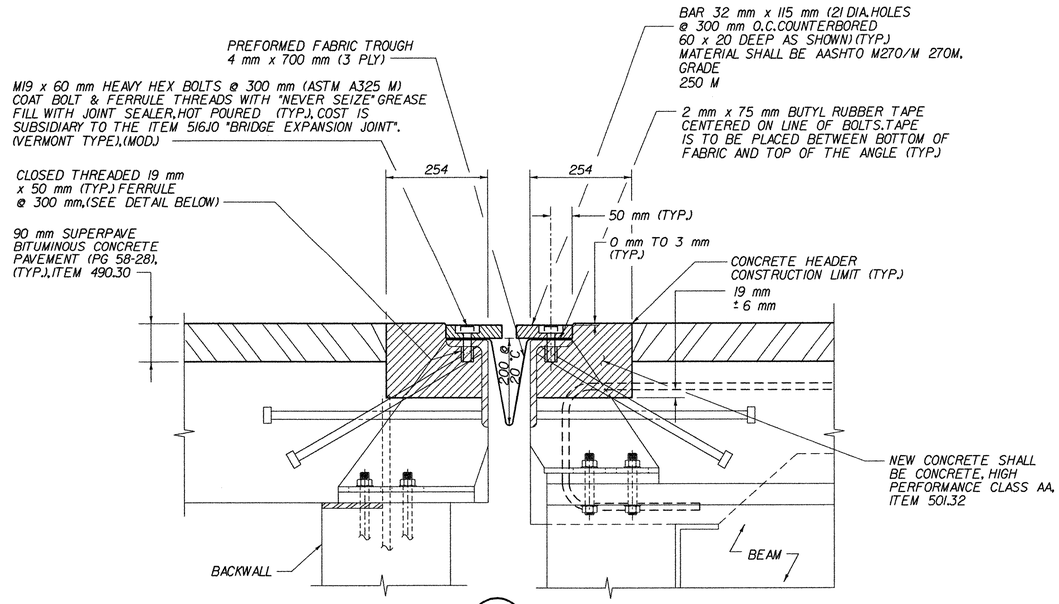


B BRI204 **EXISTING SECTION** N.T.S.



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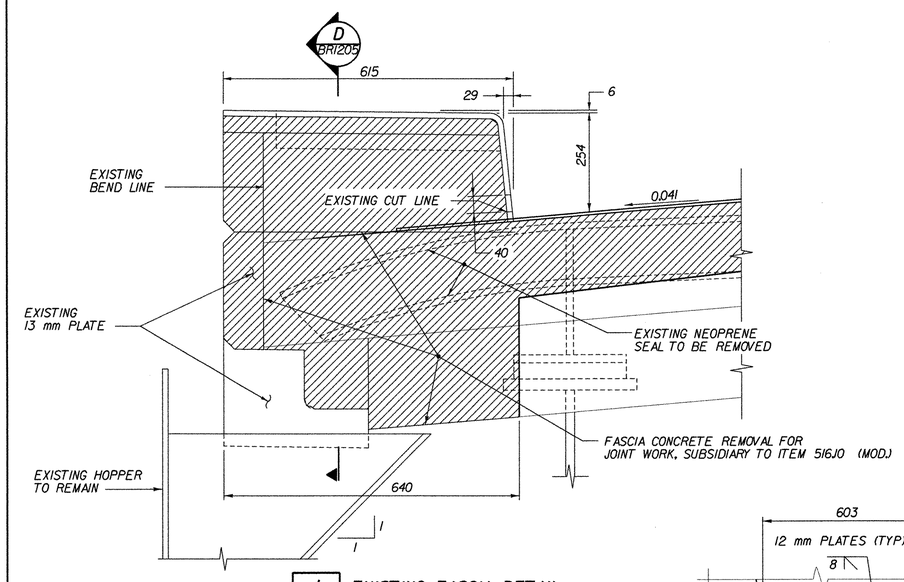
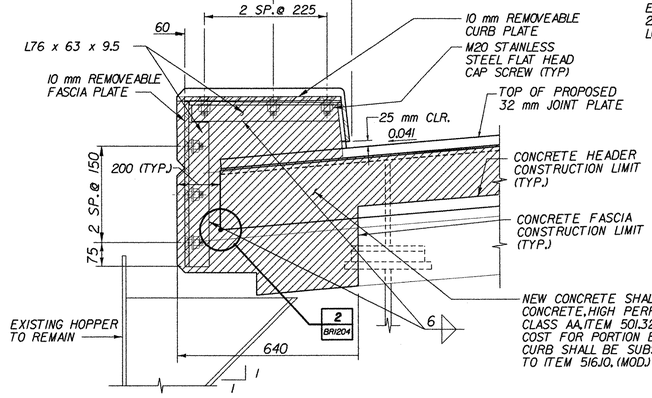
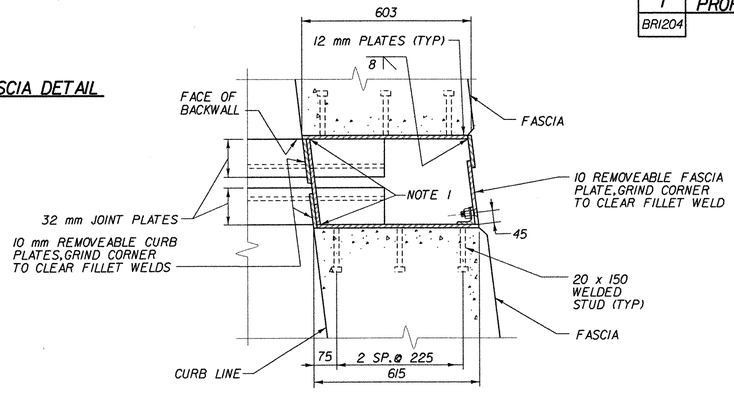


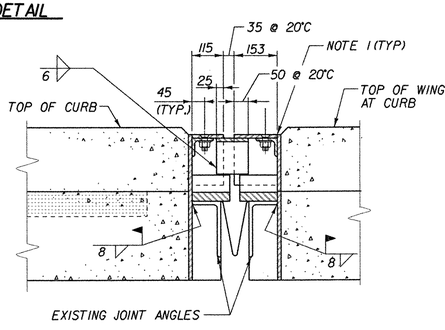
1 BRI204 **EXISTING FASCIA DETAIL** N.T.S.



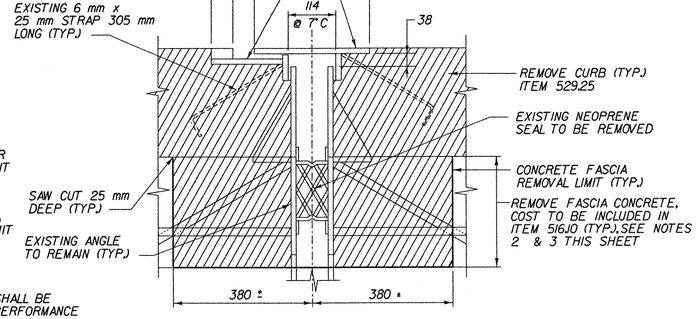
1 BRI204 **PROPOSED FASCIA DETAIL** N.T.S.



E BRI204 **PROPOSED PARTIAL JOINT PLAN** N.T.S.



F BRI204 **PROPOSED JOINT SECTION AT CURB** N.T.S.



D BRI205 **EXISTING JOINT SECTION AT CURB** N.T.S.

Metric

NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.

NOTES:

1. SEAL JOINTS BETWEEN PLATES WITH SILICONE SEALANT. COST TO BE INCLUDED IN ITEM 516.10, (MOD.).
2. CONTRACTOR SHALL USE CARE NOT TO DAMAGE THE EXISTING JOINT COMPONENTS DURING CONCRETE HEADER REMOVAL OPERATIONS.
3. THE MAXIMUM SIZE AIR HAMMER USED TO REMOVE JOINT HEADER CONCRETE SHALL BE 7 kg.

STATE OF VERMONT
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Town Of BENNINGTON	Bridge No. BRI200
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+853

VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A

JOINT DETAILS

Designed By D. STECIAK	Drawn by K. RAPELLO/B. WEATHERBY
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.C.C. Info.	
Bridge Sheet No. BRI205	Sheet 80 OF 83

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11 WINNERS CIRCLE - ALBANY, NEW YORK - 12205 518-453-4500

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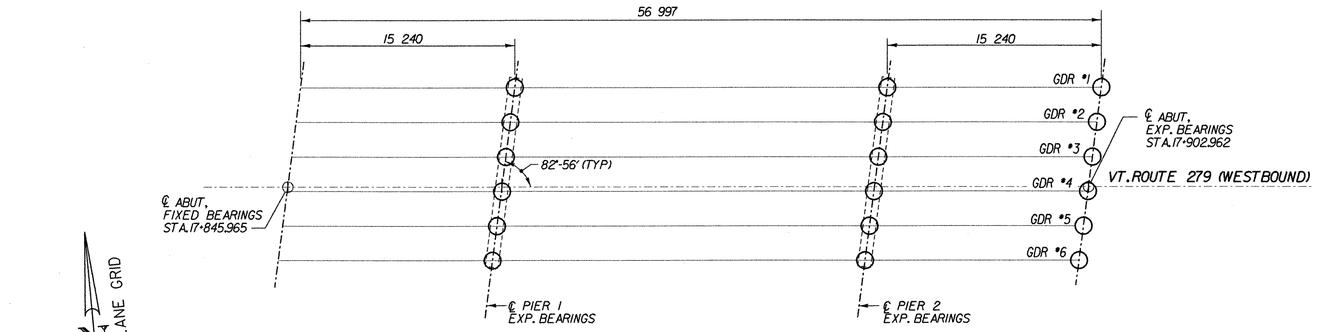
USER =2225

Metric

NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.



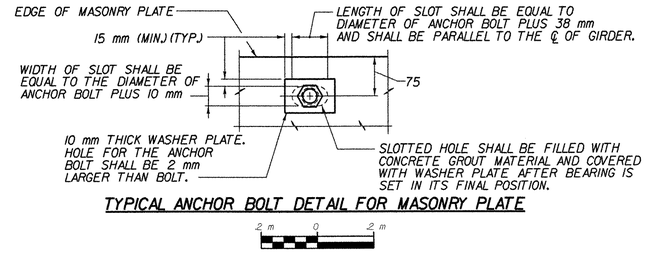
PLAN

5 m 0 5 m

1:250

LEGEND:

○ - LOCATION OF BEARING REPLACEMENT AND PEDESTAL WORK



TYPICAL ANCHOR BOLT DETAIL FOR MASONRY PLATE

2 m 0 2 m

1:10

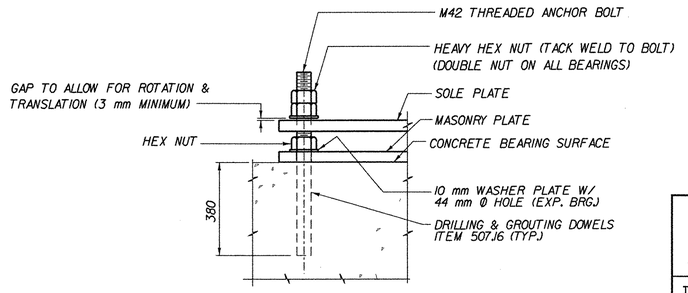
NOTE:

1. SEE SHEET NO. BRI FOR BEARING NOTES.

BEARING TABLE						
LOCATION	TYPE	ITEM NO.	QUANTITY REQUIRED	CAPACITY (kN)	SHAPE FACTOR	MAX. REACTION (kN)
PIERS	EXP.	531.10	24	800	7.75	781
END ABUTS.	EXP.	531.10	12	302	6.76	299

NOTE:

THE DEADLOAD JACKING FORCE IS APPROXIMATELY 532 kN PER PIER BEARING AND APPROXIMATELY 95 kN PER ABUTMENT BEARING.



TYPICAL ANCHOR BOLT DETAIL

2 m 0 2 m

1:10

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI200
	Log Sta.
Highway No. VT. RTE. 279	Surv. Sta. 17+853

VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A

BEARING LAYOUT PLAN AND DETAILS

Designed By D. STECIAK	Drawn by K. RAPELLO
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRI206	Sheet 81 OF 83

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III WINNERS CIRCLE - ALBANY, NEW YORK - 12205
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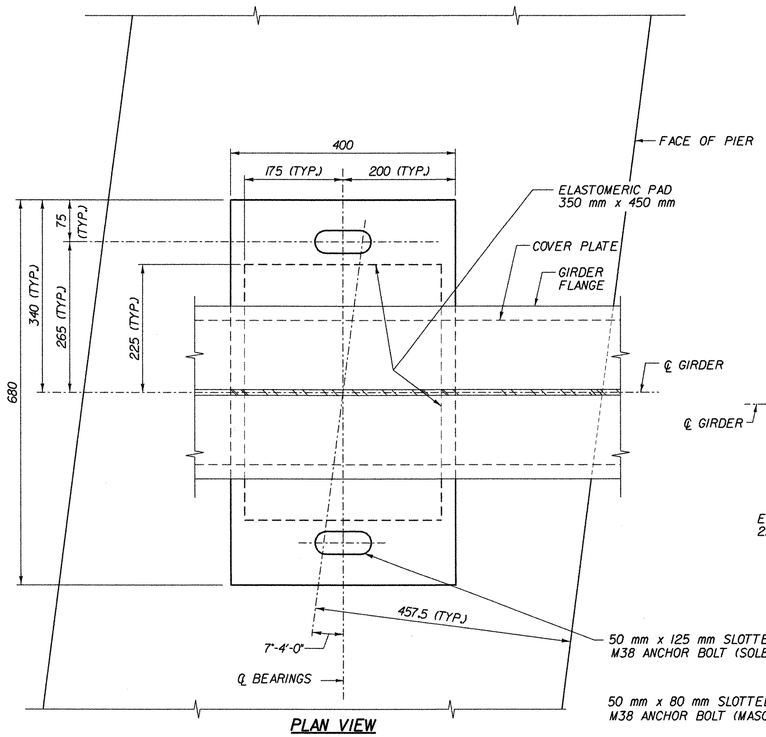
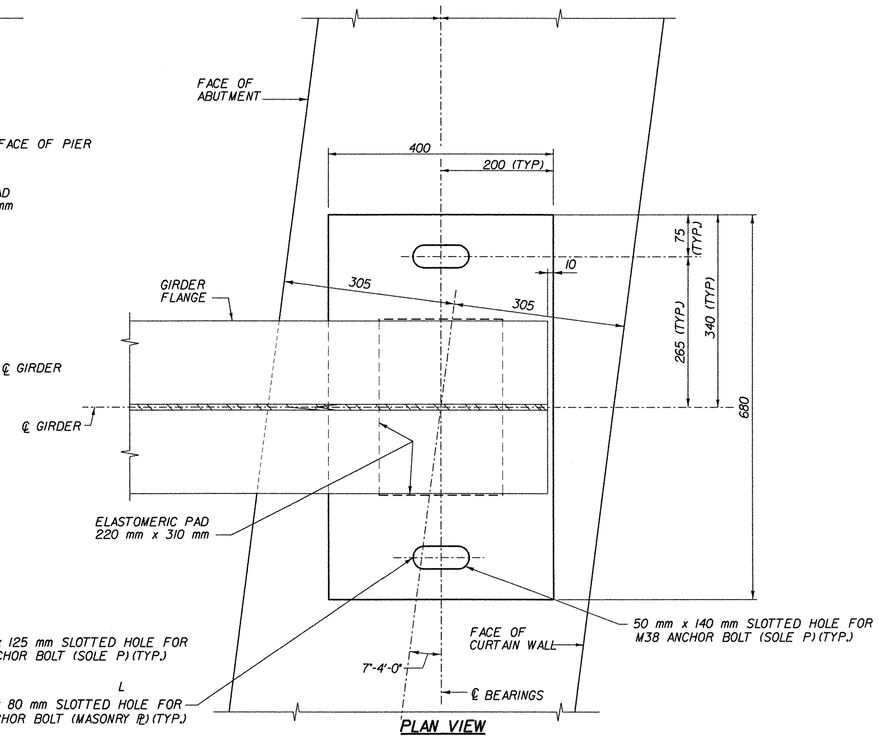
DATE/TIME = 2/17/2004
USER = 2225

Metric

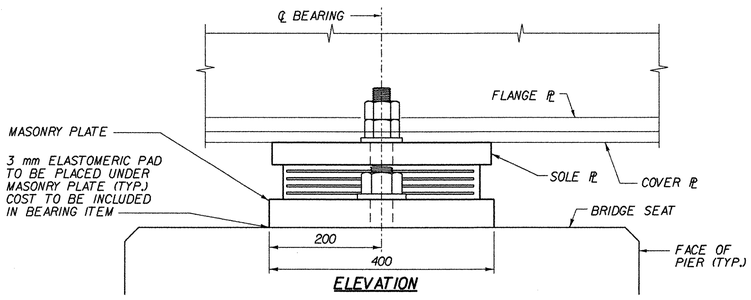
NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.



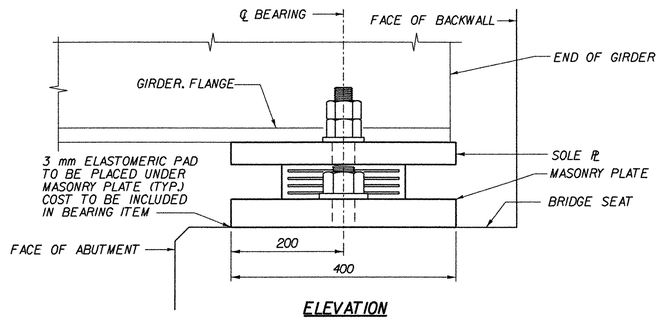
PLAN VIEW



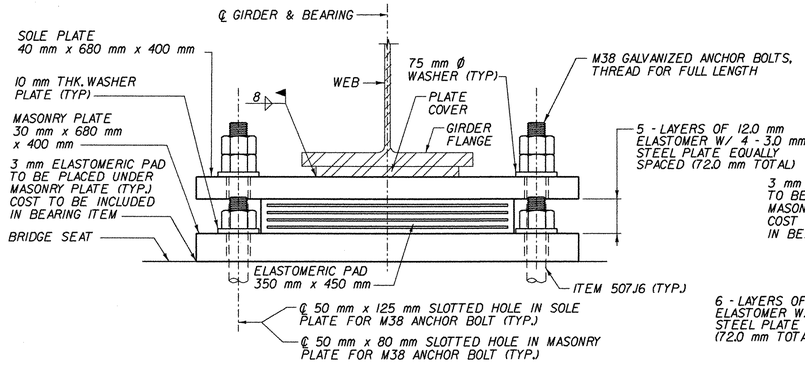
PLAN VIEW



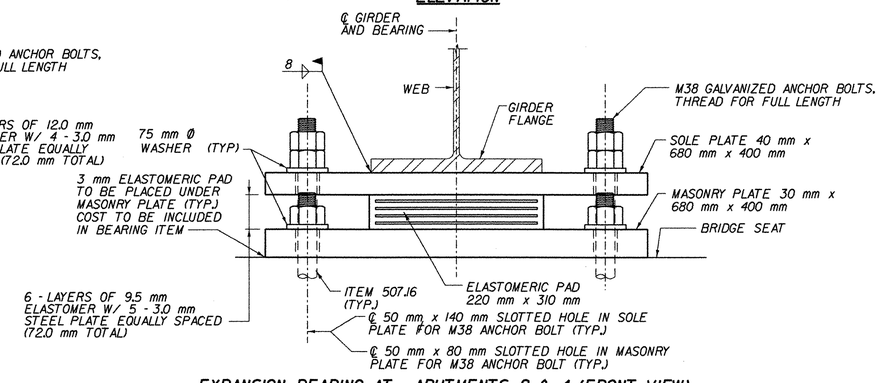
ELEVATION



ELEVATION



EXPANSION BEARING AT PIERS (FRONT VIEW)



EXPANSION BEARING AT ABUTMENTS 2 & 4 (FRONT VIEW)

BEARING DETAILS

1m 0 1m

1:5

NOTES:

1. SEE SHEET NO. BRI FOR BEARING NOTES.
2. SEE GENERAL NOTE 13 ON SHEET NO. BRI FOR SHOP DRAWING DISTRIBUTION LIST.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BRI200
Highway No. VT. RTE. 279	Log Sta.
	Surv. Sta. 17+853

VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A

BEARING DETAILS

Designed By D. STECIAK	Drawn by K. RAPELLO/B. WEATHERBY
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRI207	Sheet 82 OF 83

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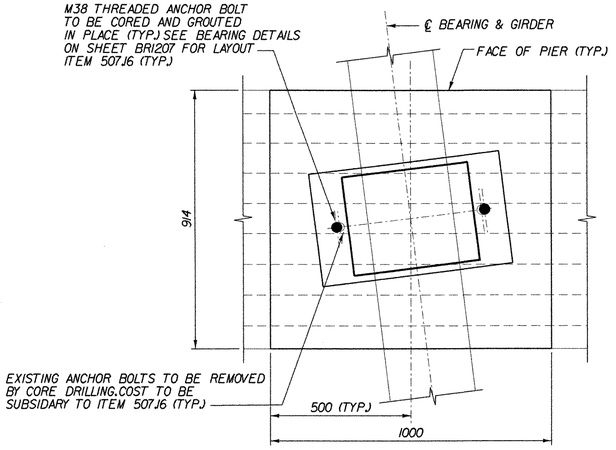
Metric

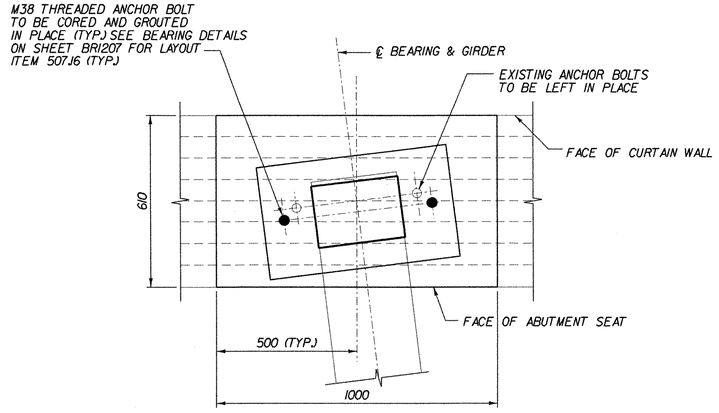
NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.



PIER PEDESTAL PLAN

.2 m 0 .2 m

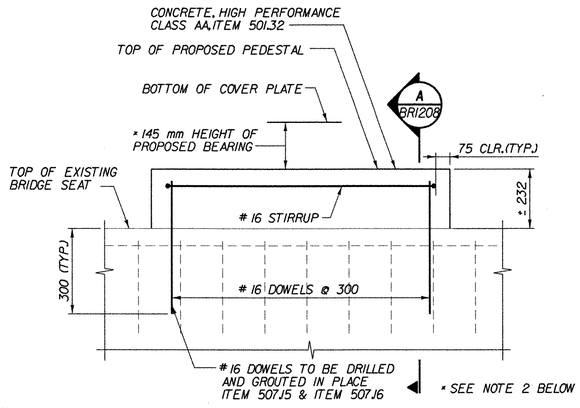
1:10



ABUTMENTS 2 & 4 PEDESTAL PLAN

.2 m 0 .2 m

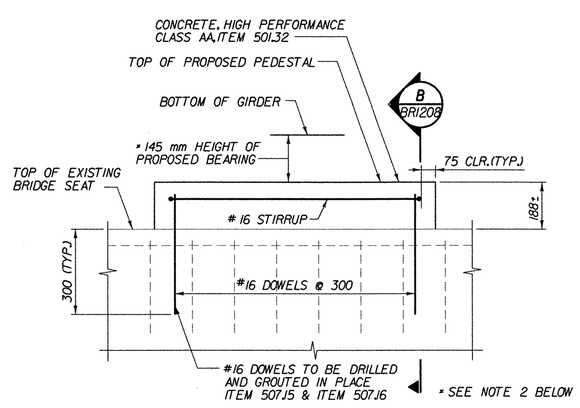
1:10



PIER PEDESTAL ELEVATION

.2 m 0 .2 m

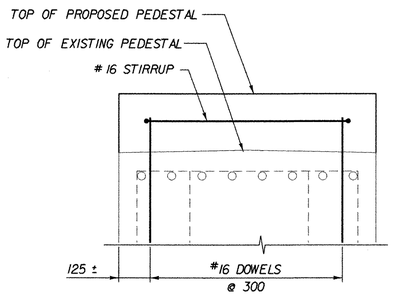
1:10



ABUTMENTS 2 & 4 PEDESTAL ELEVATION

.2 m 0 .2 m

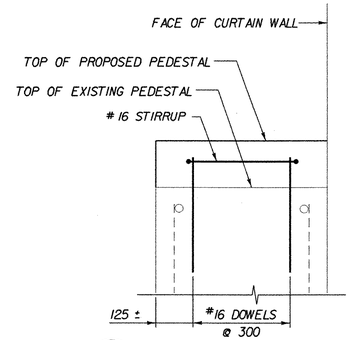
1:10



A BRI208 PIER PEDESTAL SECTION

.2 m 0 .2 m

1:10



B BRI208 ABUTMENTS 2 & 4 PEDESTAL SECTION

.2 m 0 .2 m

1:10

NOTES:

1. TOP OF EXISTING ANCHOR BOLTS SHALL BE CUT OFF TO MAINTAIN A MINIMUM OF 50 mm COVER IF NECESSARY. COST TO BE SUBSIDIARY TO ITEM 531J0.
2. TOP OF PROPOSED PEDESTALS SHALL BE ADJUSTED TO MATCH EXISTING GIRDER ELEVATIONS AND TO FIT THE ACTUAL BEARING SUPPLIED BY THE CONTRACTOR.
3. EDGES OF FASCIA GIRDER PEDESTALS SHALL BE MATCHED TO THE EXISTING END OF PIER OR ABUTMENT SEAT.
4. EXISTING CONCRETE SHALL BE THOROUGHLY COATED WITH NEAT CEMENT PASTE BEFORE NEW CONCRETE IS POURED AS PER SUBSECTION 501J3B.

STATE OF VERMONT
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Town Of BENNINGTON	Bridge No. BRI200
	Log Sta.
Highway No. VT. RTE. 279	Surv. Sta. 17+853

VT. RTE. 279 OVER HISTORIC VT. ROUTE 7A

PEDESTAL DETAILS

Designed By D. STECIAK	Drawn by B. WEATHERBY
Checked By M. W. OLSTAD Date 02/04	Bridge Design Supervisor M.W. OLSTAD Date 02/04
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(1) C/6
I.G.C. Info.	
Bridge Sheet No. BRI208	Sheet 83 OF 83

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