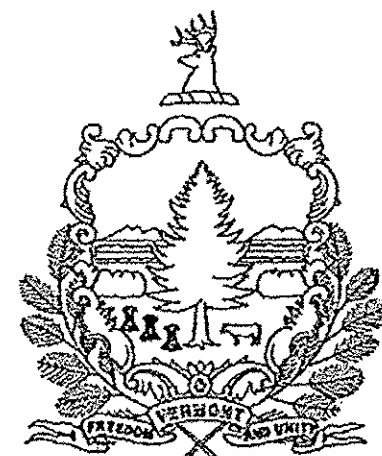


STATE OF VERMONT AGENCY OF TRANSPORTATION

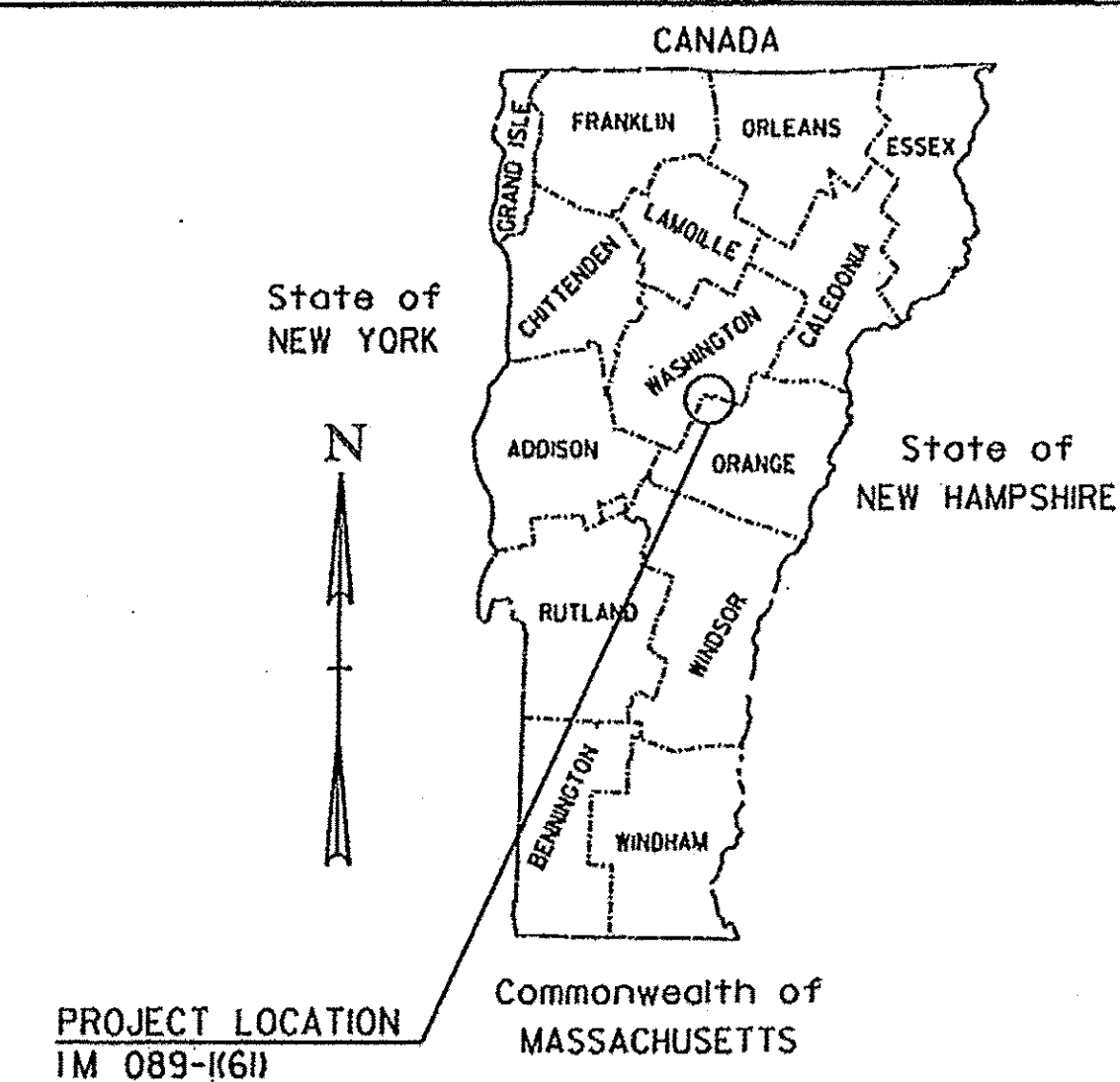


PROPOSED IMPROVEMENT TOWNS OF BROOKFIELD - WILLIAMSTOWN NORTHFIELD - BERLIN - MONTPELIER COUNTIES OF ORANGE AND WASHINGTON INTERSTATE ROUTE 89 SB (NHS)

BEGINNING AT MM 36.910 ON THE SOUTHBOUND LANES IN THE TOWN OF BROOKFIELD AND
EXTENDING 82,315.20 FT (15.590 MILES) NORTH TO MM 52.500 IN THE CITY OF MONTPELIER.

LENGTH OF ROADWAY 82,315.20 FT (15.590 MILES)
LENGTH OF PROJECT 82,315.20 FT (15.590 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING, RESURFACING THE SOUTHBOUND LANES, SOUTHBOUND INTERCHANGE
RAMPS AND U-TURNS WITH A LEVELING COURSE AND WEARING COURSE, NEW PAVEMENT MARKINGS, DRAINAGE IMPROVEMENTS, GUARDRAIL
IMPROVEMENTS AND OTHER HIGHWAY RELATED ITEMS.



BITUMINOUS CONCRETE SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	5,921,500
DESIGN NUMBER OF GYRATIONS	80
PERFORMANCE GRADE ASPHALT BINDER	SEE SUBSECTION 490.03(b)

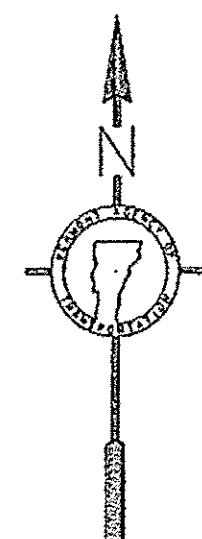
RECORD PLANS

CONTRACTOR:	PIKE INDUSTRIES, INC. - BERLIN, VT
RESIDENT ENGINEER:	JOHN SLADYK
CONSTRUCTION BEGAN:	APRIL 17, 2014
CONSTRUCTION COMPLETE:	AUGUST 27, 2014
RECORD PLANS BY:	JOHN SLADYK & CRAIG PIERCE

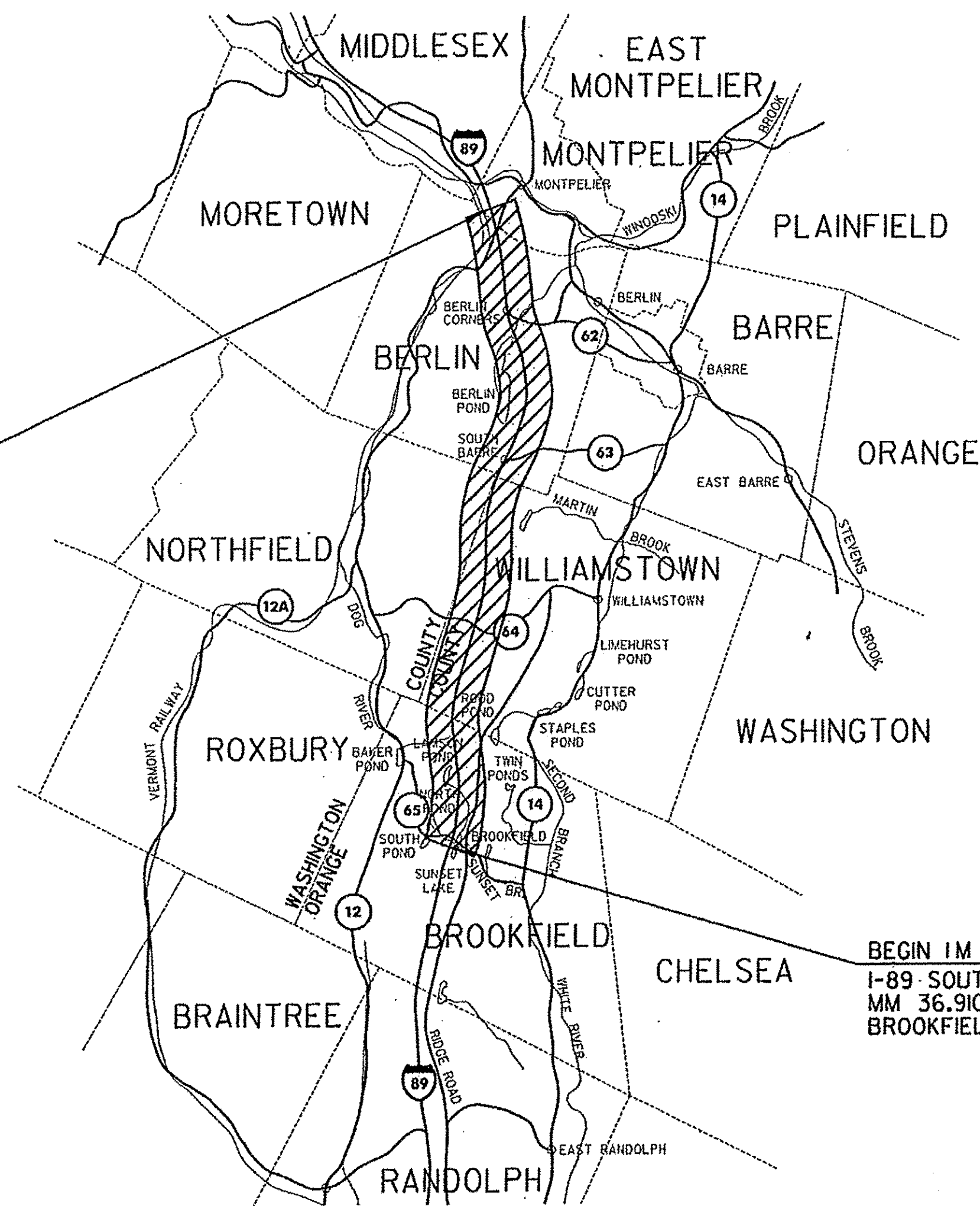
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY John N. Sladyk RESIDENT ENGINEER
DATE 3-17-15

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.



END IM 089-(K6)
I-89 SOUTHBOUND
MM 52.500
MONTPELIER



BEGIN IM 089-(K6)
I-89 SOUTHBOUND
MM 36.910
BROOKFIELD

TRAFFIC DATA

LOCATION	AADT		DHW		ESALs	
	2014	2024	2014	2024	2014~2024	2014~2034
BEGIN PROJECT TO INTERCHANGE NO. 5	7000	7800	950	1100	3,531,000	8,402,000
INTERCHANGE NO. 5 TO INTERCHANGE NO. 6	9500	10500	1300	1400	4,340,000	10,267,000
INTERCHANGE NO. 6 TO INTERCHANGE NO. 7	8300	9200	1100	1200	3,654,000	8,635,000
INTERCHANGE NO. 7 TO END PROJECT	11000	12000	1500	1600	5,046,000	11,843,000



PLANS PREPARED BY

Rodney A. Boer
CHA

QUALITY ASSURANCE PROGRAM : LEVEL I	
SURVEYED BY :	NA
SURVEYED DATE :	NA
DATUM	
VERTICAL	NA
HORIZONTAL	NA

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

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR
APPROVED Mark D. Riddle DATE 12-18-13

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED Keim J. Marchisio DATE 11/21/13

PROJECT MANAGER : JONATHAN HARRINGTON, P.E.

PROJECT NAME : BROOKFIELD - MONTPELIER
PROJECT NUMBER : IM 089-(K6)

SHEET 1 OF 27 SHEETS

FILE NAME : V:\Projects\1104258\1104258.dwg DATE PLOTTED : 11/21/13 USER : JHARRINGTON

ITEM DETAIL SUMMARY SHEET #1

LOCATION			GUARDRAIL											CURB		MISCELLANEOUS					REMARKS			
BEGIN MILE MARKER	END MILE MARKER	POS.	203.30 EARTH BORROW CY	203.40 SHLDR BERM REMOVAL LF	402.13 AGGREGATE SHOULDERS, RAP TON	621.20 S. B. GR. GALV. LF	621.205 S. B. GR. GALV. W/8 FT POSTS LF	621.50 MAN. TERM. SECTION, FLARED EA	621.60 ANCHOR FOR S.B. RAIL EA	621.75 REMOVE AND RESET GR LF	621.76 REPLACE GR POST ASSEM EA	621.77 REPLACE GR BEAM UNIT EA	621.79 ADJUST HEIGHT OF G.R. LF	621.80 REMOVAL AND DISPOSAL OF G.R. LF	616.305 BIT. CONC. CURB, TYPE A LF	616.41 REMOVAL OF EXISTING CURB LF	604.412 REHAB. DI'S CB'S OR MH'S, CLASS I EA	613.10 STONE FILL, TYPE I CY	649.31 GEO. UNDER STONE FILL SY	676.10 DEL W/ ST. POST EA		676.12 REMOVAL EX. DEL. EA	676.15 REMOVE AND REPLACE REF. UNIT EA	
I-89 SOUTHBOUND:																								
36.910	52.500	LT/RT		30,000	1888.0		524.8			2681.6			2681.6							675	675			SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER
37.750	37.805	LT										3								2	2	8		
37.825	37.930	RT										5								2	2	16		
38.810	38.910	LT	25.0		7.9			I				5			89.8	89.8	I	1.0	5.0	2	2	15	INSTALL NEW MTS, FLARED FROM MM 38.903 TO MM 38.910.	
38.810	39.000	RT			4.7							10			52.8	52.8	I	1.0	5.0	2	2	28		
39.405	39.670	LT									I	14								2	2	39		
39.425	39.655	RT										13								2	2	34		
40.310	40.655	RT														1309.4	5	199.0	607.0	2	2	58		
40.335	40.575	LT									I	13								2	2	35		
	40.66	LT						I															INSTALL NEW MTS, FLARED	
41.660	42.295	LT						I			2	36				1895.5	6	286.8	872.4	2	2	93	INSTALL NEW MTS, FLARED	
41.945	42.150	RT									I	12				855.4	3	129.4	395.2	2	2	30		
42.655	43.050	LT			3.3						22	37			36.9	1494.2	4	219.9	667.7	2	2	52	INSTALL NEW MTS, FLARED	
	43.07	LT						I																
42.940	43.070	RT										15								2	2	16		
43.130	43.572	LT										80				1817.0	6	275.2	837.6	2	2	43		
43.180	43.228	RT	25.0					I			I	9								2	2	5	INSTALL NEW MTS, FLARED FROM MM 43.221 TO MM 43.228.	
43.460	43.541	RT						I				5								2	2	12	INSTALL NEW MTS, FLARED	
43.875	44.100	LT										13								2	2	33		
44.250	44.455	RT						I				12								2	2	30	INSTALL NEW MTS, FLARED	
44.250	45.300	LT						I				119								2	2	130	INSTALL NEW MTS, FLARED	
45.335	46.055	LT						I			8	45								2	2	104	INSTALL NEW MTS, FLARED	
46.925	47.250	LT			2.3			I			8	25			26.4	1177.4	5	179.4	548.3	2	2	45	INSTALL NEW MTS, FLARED	
46.935	47.250	RT									12	13								2	2	48		
47.430	47.711	LT						I				24								2	2	38	INSTALL NEW MTS, FLARED	
THIS SHEET SUBTOTALS:			50.0	30,000	1906.3	-	524.8	2	-	2681.6	56	508	2681.6	-	205.9	8691.5	31	1291.7	3938.2	719	719	912		

FILE NAME: V:\Projects\ANY\K3\25082\10A250\Consult\entia\10A250_ids_01.dgn
 DATE/TIME: 11/20/2013
 USER: 3939



ITEM DETAIL SUMMARY SHEET #1	PROJECT NAME: BROOKFIELD-MONTPELIER
	PROJECT NUMBER: IM 089-1(61)
	FILE NAME: z10A250_ids_01.dgn
	PLOT DATE: 11/20/2013
	PROJECT LEADER: D.E.G.
	DESIGNED BY: D.P.C.
	IPARM FILE NAME: z10A250ids01.i
	DRAWN BY: J.A.H.
	CHECKED BY: J.P.S.
	SHEET 10 OF 27

ITEM DETAIL SUMMARY SHEET #2

LOCATION			GUARDRAIL											CURB		MISCELLANEOUS						REMARKS	
BEGIN MILE MARKER	END MILE MARKER	POS.	203.30	203.40	402.13	621.20	621.205	621.50	621.60	621.75	621.76	621.77	621.79	621.80	616.305	616.41	604.412	613.10	649.31	676.10	676.12		676.15
			EARTH BORROW	SHLDR BERM REMOVAL	AGGREGATE SHOULDERS, RAP	S. B. GR. GALV.	S. B. GR. GALV. W/8 FT POSTS	MAN. TERM. SECTION, FLARED	ANCHOR FOR S.B. RAIL	REMOVE AND RESET GR	REPLACE GR POST ASSEM	REPLACE GR BEAM UNIT	ADJUST HEIGHT OF G.R.	REMOVAL AND DISPOSAL OF G.R.	BIT. CONC. CURB, TYPE A	REMOVAL OF EXISTING CURB	REHAB. DI'S CB'S OR MH'S, CLASS I	STONE FILL, TYPE I	GEO. UNDER STONE FILL	DEL W/ ST. POST	REMOVAL EX. DEL.		REMOVE AND REPLACE REF. UNIT
			CY	LF	TON	LF	LF	EA	EA	LF	EA	EA	LF	LF	LF	LF	EA	CY	SY	EA	EA	EA	
I-89 SOUTHBOUND:																							
47.440	47.706	RT									I										2	2	45
47.920	48.005	RT										II									2	2	10
	48.005	LT						I															INSTALL NEW MTS, FLARED
48.515	48.675	RT																			2	2	27
	48.675	LT						I															INSTALL NEW MTS, FLARED
48.575	48.685	LT	25.0					I			2	4									2	2	17
48.710	48.825	RT									4	3									2	2	18
48.720	48.835	LT						I													2	2	19
48.868	48.988	RT	25.0					I			4	9									2	2	17
48.877	49.000	LT						I				7									2	2	18
49.925	50.084	RT	200.0		0.9	987.0		2	10					888.0	10.6					2	2		
																							SEE VTRANS STANDARD SHEETS G-ID AND G-I9. SEE SHEET 15 FOR MEDIAN RAIL DETAILS. INSTALL NEW MTS, FLARED FROM MM 49.925 TO MM 49.932. INSTALL NEW MTS, FLARED FROM MM 50.077 TO MM 50.084.
49.932	49.925	LT						I															INSTALL NEW MTS, FLARED
49.973	50.078	LT									6	4									2	2	16
	50.208	LT						I															INSTALL NEW MTS, FLARED
50.216	50.360	LT			2.3						6	4			26.4	253.4	2	39.5	122.6	2	2	23	
50.208	50.386	RT	200.0		0.9	1112.0		2	10					908.0	10.6					2	2		
																							SEE VTRANS STANDARD SHEETS G-ID AND G-I9. SEE SHEET 15 FOR MEDIAN RAIL DETAILS. INSTALL NEW MTS, FLARED FROM MM 50.208 TO MM 50.215. INSTALL NEW MTS, FLARED FROM MM 50.379 TO MM 50.386.
50.650	50.795	LT	25.0					I			8	5									2	2	22
50.780	50.793	RT						I			4	3									2	2	I
51.016	51.258	LT									14	13									2	2	36
	51.261	RT						I															
51.428	51.786	LT									18	32				1663.2	5	251.4	764.2	2	2	48	
51.468	51.739	RT						I			12	24									2	2	36
	51.786	RT						I															INSTALL NEW MTS, FLARED
51.833	51.957	LT										13				311.5	I	47.1	143.4	2	2	16	
	51.956	RT						I															
52.215	52.500	LT			124.3						34	20			1404.5	1404.5	7	7.0	35.0	2	2	40	
THIS SHEET SUBTOTALS:			475.0	-	128.4	2099.0	-	7	20	-	113	152	-	1796.0	1452.1	3632.6	15	345.0	1065.2	38	38	409	

FILE NAME: V:\Projects\10A2501\10A2501\Consultants\10A2501.dwg
 DATE/TIME: 11/20/2013
 USER: JPS



ITEM DETAIL SUMMARY SHEET #2	PROJECT NAME: BROOKFIELD-MONTEPELIER
	PROJECT NUMBER: IM 089-1(61)
	FILE NAME: z10A2501.dwg PROJECT LEADER: D.E.G. DESIGNED BY: D.P.C. IPARM FILE NAME: z10A2501.dwg
	PLOT DATE: 11/20/2013 DRAWN BY: J.A.H. CHECKED BY: J.P.S. SHEET 11 OF 27

ITEM DETAIL SUMMARY SHEET #3

LOCATION			GUARDRAIL											CURB		MISCELLANEOUS						REMARKS		
BEGIN MILE MARKER	END MILE MARKER	POS.	203.30 EARTH BORROW CY	203.40 SHLDR BERM REMOVAL LF	402.13 AGGREGATE SHOULDERS, RAP TON	621.20 S. B. GR. GALV. LF	621.205 S. B. GR. GALV. W/8 FT POSTS LF	621.50 MAN. TERM. SECTION, FLARED EA	621.60 ANCHOR FOR S.B. RAIL EA	621.75 REMOVE AND RESET GR LF	621.76 REPLACE GR POST ASSEM EA	621.77 REPLACE GR BEAM UNIT EA	621.79 ADJUST HEIGHT OF G.R. LF	621.80 REMOVAL AND DISPOSAL OF G.R. LF	616.305 BIT. CONC. CURB, TYPE A LF	616.41 REMOVAL OF EXISTING CURB LF	604.412 REHAB. DI'S CB'S OR MH'S, CLASS I EA	613.10 STONE FILL, TYPE I CY	649.31 GEO. UNDER STONE FILL SY	676.10 DEL W/ ST. POST EA	676.12 REMOVAL EX. DEL. EA		676.15 REMOVAL AND REPLACE REF. UNIT EA	
I-89 SOUTHBOUND:																								
INTERCHANGE 5:																								
5C 0.005	5C 0.473	RT																			35	35		
5C 0.005	5C 0.473	LT																						
5D 0.005	5D 0.192	RT																						
5D 0.005	5D 0.192	LT										10				332.6	1	50.3	152.8	32	32	14		
INTERCHANGE 6:																								
6C 0.000	6C 0.387	RT						2													39	39	43	
6C 0.000	6C 0.387	LT																						
6D 0.000	6D 0.325	RT																						
6D 0.000	6D 0.325	LT														697.0	3	106.3	324.8	37	37	27		
INTERCHANGE 7:																								
7C 0.000	7C 0.450	RT																						
7C 0.000	7C 0.450	LT																			33	33		
7D 0.000	7D 0.282	RT																						
7D 0.000	7D 0.282	LT																			43	43		
THIS SHEET SUBTOTALS:			-	-	-	-	-	-	-	-	10	-	-	-	1029.6	4	156.6	477.6	219	219	84			
SHEET 10 SUBTOTALS:			50.0	30,000	1906.3	-	524.8	2	-	2681.6	56	508	2681.6	-	205.9	8691.5	31	1291.7	3938.2	719	719	912		
SHEET 11 SUBTOTALS:			475.0	-	128.4	2099.0	-	7	20	-	113	152	-	1796.0	1452.1	3632.6	15	345.0	1065.2	38	38	409		
SUBTOTALS:			525.0	30,000	2034.7	2099.0	524.8	9	20	2681.6	169	670	2681.6	1796.0	1658.0	13353.7	50	1793.3	5481.0	976	976	1405		
ROUNDING:			75.0	-	65.3	101.0	25.2	-	-	18.4	31	30	18.4	104.0	42.0	146.3	-	31.7	19.0	24	24	45		
TOTALS:			600.0	30,000	2,100.0	2,200.0	550.0	9	20	2,700.0	200	700	2,700.0	1,900.0	1,700.0	13,500.0	50	1,825.0	5,500.0	1,000	1,000	1,450		

ITEM DETAIL SUMMARY SHEET #3
 PROJECT NAME: BROOKFIELD-MONTPELIER
 PROJECT NUMBER: IM 089-1(61)
 FILE NAME: z10A250_1ds.03.dgn
 PROJECT LEADER: D.E.G.
 DESIGNED BY: D.P.C.
 IPARM FILE NAME: z10A2501ds03.1
 PLOT DATE: 11/20/2013
 DRAWN BY: J.A.H.
 CHECKED BY: J.P.S.
 SHEET 12 OF 27



FILE NAME = W:\Projects\10A250\10A250\Consult\10A250_1ds.03.dgn
 DATE = 11/20/13
 USER = JPS

