ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	PIPE ARCH S (IN)	PIPE ARCH R (IN)	PIPE ARCH L (FT)	PIPE D (IN)	PIPE L (FT)	ALLOWABLE OPTIONS PCCSP (TH)	CAAP (TH)	RCP (CL)	CSP (TH)	CPEP (SL)	PCCSP PI (TH)	PIPE ELBOW (NO-DEG)	ES (EA)	CB	PRCKDI	DEPTH DI	CONC CL B (CY)	REIN STEEL (LBS)	DI GRATE (TYPE)	CHAN ELEV	CRM (CY)	TR EXCAV EARTH (CY)	TR EXCAV ROCK (CY)	COMM EXC (CY)	UNC CHAN EXC (CY)	STRUC EXCAV (CY)	GRAN BKF STRUC (CY)	GRAN BORR (CY)	EROS MATT (SY)	STONE FILL (CY)	STONE FILL TYPE	MRKR POSTS LT	MRKR POSTS RT	PIPE REM.		REMARKS
UPPER FRENCH HOLLOW RD. (FROM ML)																																										
0+16	0+53	RT-RT								18	66	.064	.060									4.0	2.1	193	B			40	2							6	II	I	I			REMOVE EXISTING CULVERT & D.I. / INSTALL NEW PIPE & D.I.
1+40	2+00	RT-RT																																		60	II					EXCAVATION: PAID FOR BY ALL PURPOSE EXCAVATOR RENTAL, TYPE I
2+00	7+00	RT-RT																																		230	I					EXCAVATION: PAID FOR BY ALL PURPOSE EXCAVATOR RENTAL, TYPE I
2+07	2+31	LT-LT								18																														26		PIPE REMOVALS
2+10	2+75	LT-LT								18	60	.064	.060															43								6	II					DRIVEWAY; STONE FILL, TYPE II PAD @ OUTLET
2+75	4+80	LT-LT																																	80	40	I					SWALE: PAID FOR BY ALL PURPOSE EXCAVATOR RENTAL, TYPE I
5+60	6+80	RT-RT								18	130																	50												130		TEMPERARY CULVERT- SUBSIDIARY TO OTHER CONTRACT ITEMS
5+80	6+80	RT-RT																																		45	I					EXCAVATION: PAID FOR BY ALL PURPOSE EXCAVATOR, RENTAL, TYPE I
6+40		LT								12	48	.064						I-15			I							21								6	II	I				SLOPE PIPE, 2' COUPLING BANDS AT ALL JOINTS W/STONE FILL,
																		I-20																								TYPE II PAD @ OUTLET
6+75		RT-RT								18																														40		PIPE REMOVAL
7+00	7+40	RT-RT								18	40	.064	.060																													DRIVE CULVERT
8+35		RT-RT								18																														56		PIPE REMOVAL
															.064																											
TOTALS										12 18	48 166	.064 .064	.060					2			I		2.1	193	B			162	2						80	78 315	II I		3	252		

• ALL QUANTITIES & SIZE ARE ESTIMATES. USE BIT. CONC. CURB IF REQUIRED.

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT BEGIN	END TREATMENT END
0+40	1+90	167	~~150~~	G-1-D	G-1-D
0+85 ~~0+90~~	1+90	~~100~~	104	G-1-D	G-1-D
4+42 ~~4+45~~	*TTE	~~689.5~~	727.5	G-1-D	*TTE
4+42 ~~4+45~~	7+10		279	G-1-D	G-1-D
7+30 ~~7+35~~	*TTE	564.5	~~502~~	G-1-D	*TTE
TOTALS		831.5 ~~831~~	~~860~~ 1010.5		
		~~1691~~ 1842			

*TTE=TIE TO EXISTING GUARDRAIL ON VT 30

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB	S.F. TYPE I	MKR PST
* 10+40		C	LT	6	10	8				6	1
TOTALS				6	10	8				6	1

PROJECT NAME: WINHALL
PROJECT NUMBER: PFH 002-1(1)

FILE NAME: sqda/99e206/de206frm.dgn
PROJECT LEADER: AJB
DESIGNED BY:
de206d01.i

PLOT DATE: 05-JUN-2002
DRAWN BY: MGN
CHECKED BY:
SHEET 6 OF

SUPERELEVATION DATA

CURVE 1

PC Sta: 0+00
PT Sta: 1+06.50

Type:	Left
Delta:	87-37-46
Degree of Curve:	82-17-10
Tangent:	66.81
Radius:	69.634 FT.
Length:	106.500 FT.
Bank(E):	0.020 FT/FT

Transition In
Start sta: 0+00
End sta: 1+06.50

Transition Out
Start sta: 1+06.50
End sta: 2+06.50

TANGENT 1

Start:	1+06.50
End:	3+27.60
Bearing:	S25°00'36"W
Length:	221.10

CURVE 2

PC Sta: 3+27.60
PT Sta: 6+97.54

Type:	Left
Delta:	48-59-17
Degree of Curve:	13-14-32
Tangent:	197.13
Radius:	432.684 FT.
Length:	369.945 FT.
Bank(E):	0.071 FT/FT

Transition In
Start sta: 2+27.60
End sta: 3+27.60

Transition Out
Start sta: 6+97.54
End sta: 7+97.54

TANGENT 2

Start:	6+97.54
End:	8+79.72
Bearing:	S23°58'41"E
Length:	182.18

CURVE 3

PC Sta: 8+79.72
PT Sta: 10+22.91

Type:	Right
Delta:	60-46-18
Degree of Curve:	42-26-29
Tangent:	79.16
Radius:	135.000 FT.
Length:	143.190 FT.
Bank(E):	0.040 FT/FT

Transition In
Start sta: 7+79.72
End sta: 8+79.72

Transition Out
Start sta: 10+22.91
End sta: 10+22.91

TANGENT 3

Start:	10+22.91
End:	10+59.10
Bearing:	S36°57'49"W
Length:	36.19

CONTROL COORDINATES

STP#1C	N= 4996.27 E= 4974.02	STP#3B	N= 5032.74 E= 5508.73
STP#2	N= 5138.31 E= 4681.92	STP#4D	N= 5097.05 E= 5536.94
STP#2B	N= 4998.67 E= 5405.98	STP#5B	N= 5165.20 E= 5455.49
STP#2C	N= 5073.81 E= 5274.36	STP#6B	N= 5013.89 E= 4945.50

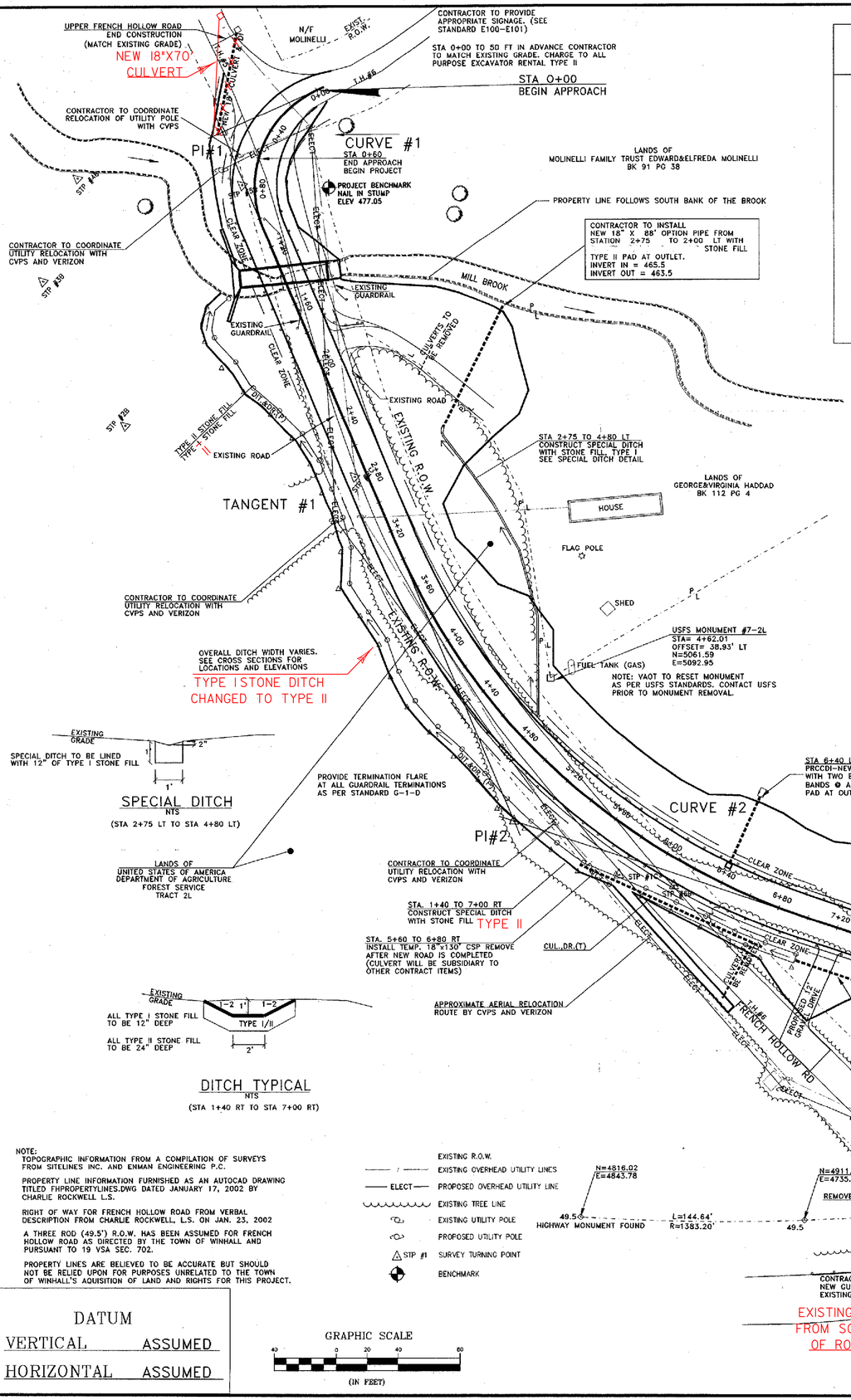
PI COORDINATES

PI#1	N= 5182.25 E= 5488.24
PI#2	N= 4976.78 E= 5047.80
PI#3	N= 5163.21 E= 4628.64

STATION COORDINATES

POINT ON TANGENT

POT	0+00.00 N= 5243.50 E= 5461.84
POT	10+59.10 N= 5093.93 E= 4536.58



NOTE:
TOPOGRAPHIC INFORMATION FROM A COMPILATION OF SURVEYS FROM SITELINES INC. AND ENMAN ENGINEERING P.C.

PROPERTY LINE INFORMATION FURNISHED AS AN AUTOCAD DRAWING TITLED FHPROPERTYLINES.DWG DATED JANUARY 17, 2002 BY CHARLIE ROCKWELL L.S.

RIGHT OF WAY FOR FRENCH HOLLOW ROAD FROM VERBAL DESCRIPTION FROM CHARLIE ROCKWELL, L.S. ON JAN. 23, 2002

A THREE ROD (49.5') R.O.W. HAS BEEN ASSUMED FOR FRENCH HOLLOW ROAD AS DIRECTED BY THE TOWN OF WINHALL AND PURSUANT TO 19 VSA SEC. 702.

PROPERTY LINES ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE TOWN OF WINHALL'S AQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

EXISTING R.O.W.
EXISTING OVERHEAD UTILITY LINES
ELECT PROPOSED OVERHEAD UTILITY LINE
EXISTING TREE LINE
EXISTING UTILITY POLE
PROPOSED UTILITY POLE
STP #1 SURVEY TURNING POINT
BENCHMARK

DATUM
VERTICAL ASSUMED
HORIZONTAL ASSUMED

GRAPHIC SCALE
40 0 20 40 60
(IN FEET)

REVISION: 03/11/02 MISC EDITS PER AOT REVIEW, REVISE CONTROL
02/13/02 MISC EDITS PER AOT REVIEW
12/18/01 AS PER AOT MARKUPS

RELEASED FOR: PERMIT REVIEW RELEASE DATE: MARCH 19, 2002

Enman Engineering
Environmental • Civil • Sanitary
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Rutland, Vermont 05701
(802)775-3437
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PROJECT NAME: WINHALL (FRENCH HOLLOW ROAD)
PROJECT NO. PFH-002-1(1)

ALIGNMENT SHEET

PLAN CREATED NOVEMBER 12, 2000

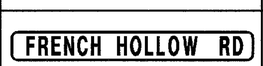
DIRECTOR OF PROJECT DEVELOPMENT
APPROVED _____ DATE _____

DESIGN BY: BJE/FBP
DRAWN BY: JPL
PROJECT NO: 9714.2
SHEET NO: 21 OF 45

9714.2.DWG LAYOUT.LAY VIEW= ALIGNMENT

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (In)	HEIGHT (In)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (In) 1.75 lb/ft 1.88	2.0 lb/ft 2.16	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (In) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0 MOD lb/ft 1.7	TUBULAR STEEL Ø (in) FOUNDATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																									
1+20 LT		1	30	30	6.25						1			14' X																				S1-1		E-153
5+50 RT		1	36	36	9						1			16' X																				W3-1A		E-150
10+24 RT		1	30	30	6.25						1			14' X																				R1-1		E-143
		1	6	8	0.34																												VD-700		E-138
10+24 LT		1	24	30	5						1			12' X																				VR-017		E-141
10+24 LT		1					1				1			14' X																				D3		E-123
TOTALS		SF 26.84	SF	EA. 1	SF							FT 90 ~~90~~ 70	FT	FT	FT	FT	FT		EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB					

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."

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PROJECT NUMBER: PFH 002-1(1)

FILE NAME: sqda/99e206/de206frm.dgn
PROJECT LEADER: AJB
DESIGNED BY:
de206t01

PLOT DATE: 17-APR-2002
DRAWN BY: MGN
CHECKED BY:
SHEET 27 OF 45