INDEX OF SHEETS

SEE SHEET 2

RECORD PLANS

CONTRACTOR: J.A. McDONALD – LYNDON, CTR., VT

RESIDENT ENGINEER: DALE NORTON

CONSTRUCTION BEGAN: AUGUST 4, 2008

CONSTRUCTION COMPLETE: OCTOBER 7, 2008

RECORD PLANS BY: DALE NORTON, N. GARBACIK

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

BY Dale R. Norton RESIDENT ENGINEER

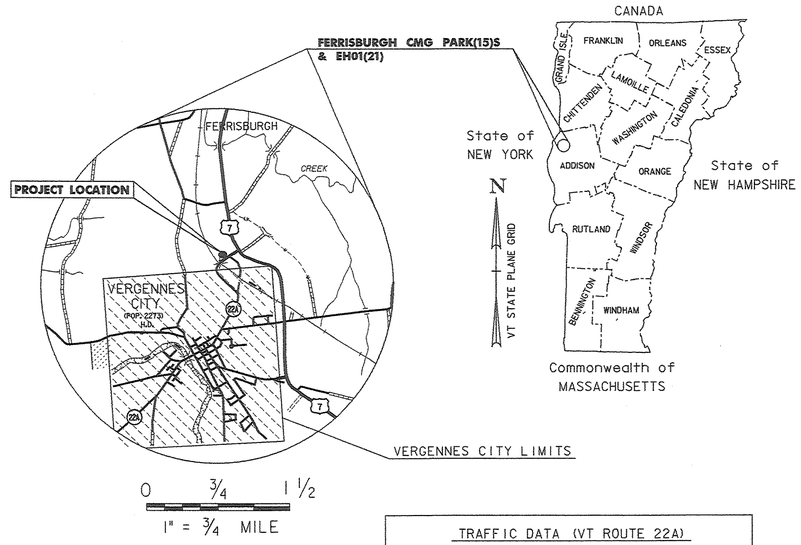
DATE 07 Oct 2009

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.

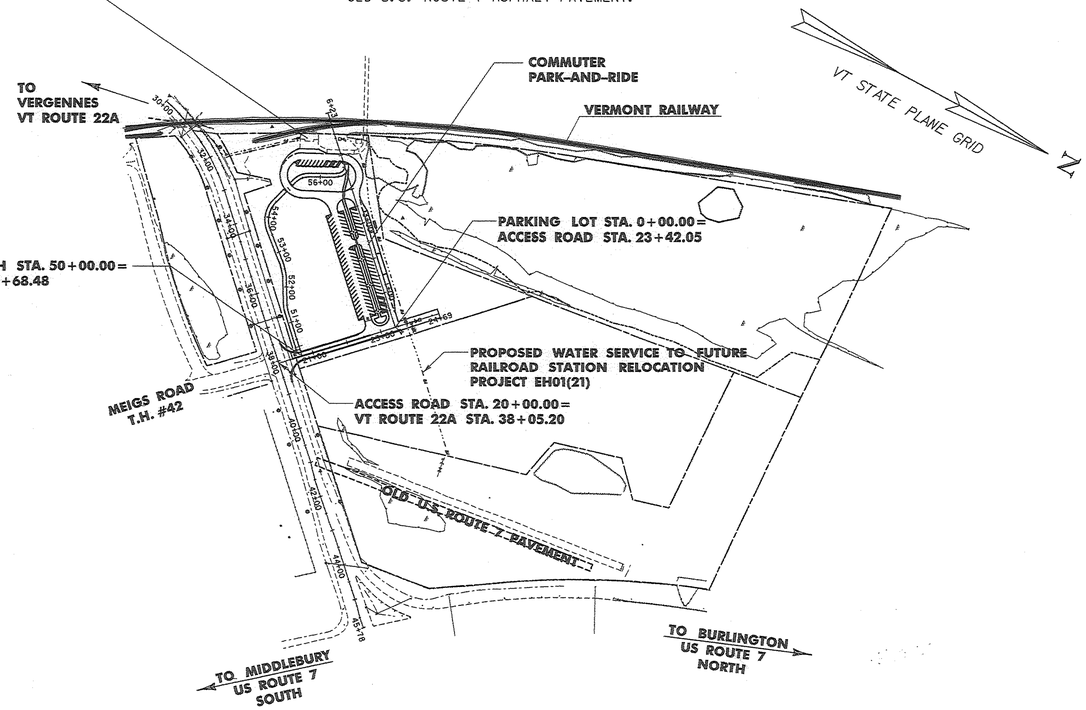
STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
TOWN OF FERRISBURGH
COUNTY OF ADDISON
COMMUTER PARK-AND-RIDE LOT

THIS PROJECT IS LOCATED ON VT ROUTE 22A IN THE TOWN OF FERRISBURGH, APPROXIMATELY 950' SOUTHWEST OF THE U.S. ROUTE 7 AND VT ROUTE 22A INTERSECTION, ON THE NORTHERLY SIDE OF VT ROUTE 22A.
WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE CONSTRUCTION OF A NEW PARK-AND-RIDE LOT, INSTALLATION OF ELECTRIC & WATER SERVICE FOR THE FUTURE RELOCATION OF THE HISTORIC VERGENNES RAILROAD STATION, AND REMOVAL OF OLD U.S. ROUTE 7 ASPHALT PAVEMENT.



TRAFFIC DATA (VT ROUTE 22A)		
	2002	2022
ADT	6800	9000
DHV	870	1100
ADTT	670	810
%T	6	6
%D	55	55
ESALS (2002-2022) = 6,988,000		
ESALS (2002-2042) = 17,572,000		
DESIGN SPEED (VT ROUTE 22A) = 30 MPH		
POSTED SPEED (VT ROUTE 22A) = 30 MPH		



CONVENTIONAL SYMBOLS

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

SURVEYED BY : VT SURVEY & ENGINEERING
SURVEYED DATE : MAY, 2000

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83 (1992)

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 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

STATE OF VERMONT GARY A. SAINT NO. 7563 LICENSED PROFESSIONAL ENGINEER

4/19/2006

Dufresne-Henry

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR

APPROVED _____ DATE _____

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED David Davis DATE 4/20/06

PROJECT MANAGER : WAYNE L. DAVIS

PROJECT NAME : FERRISBURGH/VERGS-FERRISBURGH

PROJECT NUMBER : CMG PARK (15) S
STP EH01 (21)

SHEET 1 OF 65 SHEETS

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9	EARTHWORKS SHEET
10	SURVEY TIE SHEET
11	SITE PLAN AND UTILITIES
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15	LAYOUT POINTS & CONSTRUCTION NOTES
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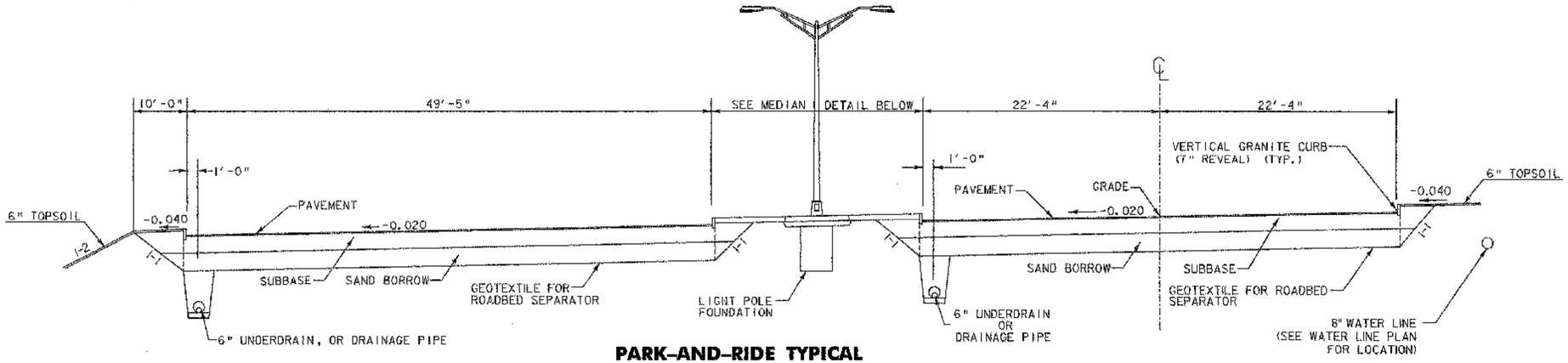
STANDARDS

B-5	06-01-94
B-12	06-01-94
B-71	07-08-05
C-1	01-03-00
C-3A	09-01-04
C-3B	09-01-04
D-2	06-01-94
D-3	06-01-94
D-4	06-01-94
D-6	06-01-94
D-8	01-03-00
D-9	06-01-94
D-11	06-01-94
D-13	01-03-00
D-15	06-01-94
D-16	06-01-94
D-20	03-03-03
E-100	01-02-04
E-100A	01-02-04
E-101	05-30-03
E-102	06-30-03
E-102A	05-01-04
E-106	03-01-04
E-107	06-30-03
E-107A	08-08-95
E-110	08-08-95
E-119	03-01-04
E-121	08-08-95
E-123	03-16-04
E-131	08-08-95
E-132	08-18-95
E-142	09-20-95
E-143	06-15-04
E-144	03-29-99
E-146	09-20-95
E-151	05-01-04
E-154	05-01-04
E-155	05-01-04
E-160	05-20-99
E-173	08-09-95
E-175	11-17-93
E-180A	08-09-95
E-180B	08-09-95
E-191	02-01-99
E-192	10-12-00
E-193	08-18-95
E-194	03-15-05
G-4	06-01-94
J-1	06-01-94

Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH		
PROJECT NUMBER:	CMG PARK(15)S/STP EH01(21)		
FILE NAME:	index.xls	PLOT DATE:	4/19/06
PROJECT LEADER:	WLD	DRAWN BY:	MBL
DESIGNED BY:	CSP	CHECKED BY:	GAS
INDEX OF SHEETS		SHEET 2	OF 65

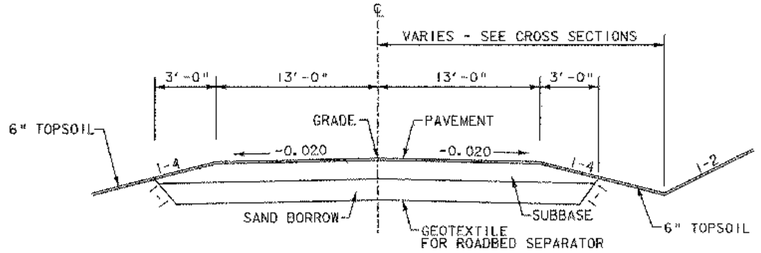
TYPICAL SECTIONS



PARK-AND-RIDE TYPICAL

N.T.S.

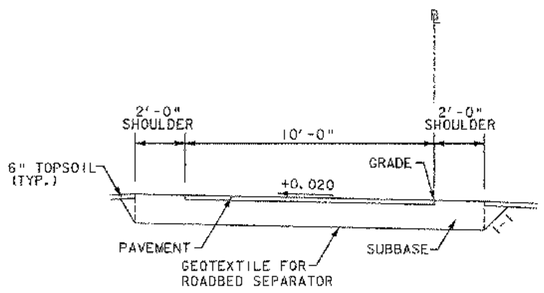
1½" BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE III)
2" BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE II)
15" SUBBASE OF DENSE GRADED CRUSHED STONE
20" SAND BORROW OVER GEOTEXTILE FOR ROADBED SUBGRADE SEPARATOR



ACCESS ROAD TYPICAL

N.T.S.

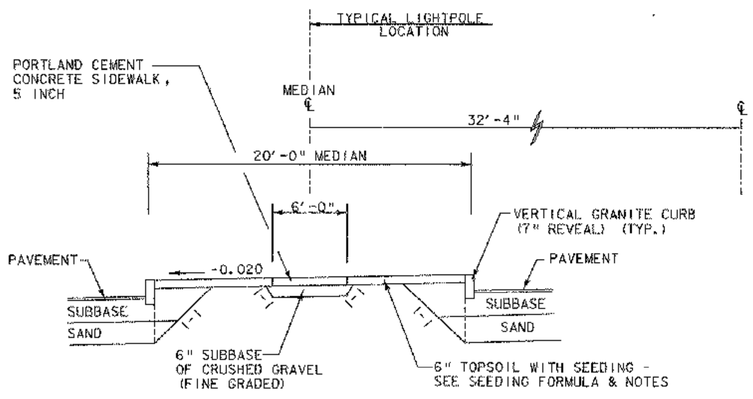
1½" BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE III)
2" BITUMINOUS CONCRETE PAVEMENT (1 LIFT-TYPE II)
15" SUBBASE OF DENSE GRADED CRUSHED STONE ← CHANGED TO CRUSHED GRAVEL, COARSE GRADE BY CO #2
20" SAND BORROW OVER GEOTEXTILE FOR ROADBED SUBGRADE SEPARATOR



BIKE/PEDESTRIAN PATH TYPICAL

N.T.S.

2" BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE III)
12" SUBBASE OF CRUSHED GRAVEL (FINE GRADED) OVER GEOTEXTILE FOR ROADBED SUBGRADE SEPARATOR



MEDIAN DETAIL

N.T.S.

MATERIAL ITEM THICKNESS / TOLERANCE

BITUMINOUS CONCRETE PAVEMENT = +/- ¼" (TOTAL DEPTH)
SUBBASE OF DENSE GRADED CRUSHED STONE +/- 1"
SAND BORROW = +/- 1"

SEEDING FORMULA

FOR SEEDING FORMULA, SEE LANDSCAPING DETAILS SHEET 1.

SEEDING NOTES

FOR SEEDING NOTES, SEE LANDSCAPING DETAILS SHEET 1.

GENERAL NOTES

SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH VTrans STANDARD SHEET B-5, UNLESS OTHERWISE INDICATED ON PLANS & SECTIONS.

PAY LIMITS OF SAND BORROW: WHEN USED IN CONJUNCTION WITH UNDERDRAIN - SEE VTrans STANDARD SHEET D-2.

EMULSIFIED ASPHALT SHALL BE APPLIED TO SUCCESSIVE COURSES AT A RATE OF 0.015 GAL/SY.

NOTE: BEGAN ACCESS RD CONTRUCTION @ STA WO+50, DUE TO WORK DONE DONE BY E. M. GIPSON, R. E. ON PREVIOUS VT 22-A PROJECT.

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\03typical.p+f	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
TYPICAL SECTIONS	SHEET 3 OF 65

DH Dufresne-Henry

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET #1

SUMMARY OF ESTIMATED QUANTITIES

E&C	STP EH01(21)	LANDSCAPING	EROSION CONTROL	PARK-AND-RIDE	TOTALS ROUND	TOTALS GRAND TOTAL	TOTALS FINAL	UNIT	DESCRIPTIONS ITEMS	ITEM NUMBER
				1	0	1		LS	CLEARING AND GRUBBING (INCL. INDV. TREES & STUMPS)	201.10
				19393	607	20000		CY	COMMON EXCAVATION	203.15
				526	14	540		CY	SOLID ROCK EXCAVATION	203.16
				4493	97	4590		CY	SAND BORROW	203.31
				7133	67	7200		SY	FINE GRADING - SUBGRADE	203.40
	740			1407	16	2163		CY	TRENCH EXCAVATION OF EARTH	204.20
	10			10	EST	20		CY	TRENCH EXCAVATION OF ROCK	204.21
	230			307	13	590		CY	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	301.26
				3230	70	3300		CY	~~SUBBASE OF DENSE GRADED CRUSHED STONE~~ CR. GRAV. COARSE GRADED C.O. # 2 11/3/06	301.35
				18	2	18		CWT	EMULSIFIED ASPHALT	404.65
				1370	10	1380		TON	BITUMINOUS CONCRETE PAVEMENT (PG 58-28)	406.25
				12	1	13		CY	CONCRETE, CLASS B	501.25
				374	6	380		LB	REINFORCING STEEL	507.15
				45	0	45		LF	12" CSP 0.064 (2-2/3 x 1/2) (MOD.)	601.0005
				104	0	104		LF	18" CPEP(SL)	601.2615
				474	0	474		LF	24" CPEP(SL)	601.2620
				380	0	380		LF	30" CPEP(SL)	601.2625
				1	0	1		EACH	18" CPEPES	601.7015
				1	0	1		EACH	24" CPEPES	601.7020
				5	0	5		EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.20
				3	0	3		EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER	604.21
				2	0	2		EACH	CAST IRON GRATE WITH FRAME, TYPE D	604.47
				496	4	500		LF	6" UNDERDRAIN	605.10
				206	4	210		LF	12" UNDERDRAIN	605.13
				1	0	1		EACH	UNDERDRAIN RISER	605.90
				2	0	2		EACH	UNDERDRAIN FLUSHING BASINS	605.95
				10	EST.	10		HR	POWER GRADER RENTAL	608.15
				10	EST.	10		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25
				10	EST.	10		HR	POWER BROOM RENTAL	608.30
				10	EST.	10		HR	TRUCK RENTAL	608.37
				10	EST.	10		HR	LOADER RENTAL, TYPE I	608.40
			290		EST.	290		MGAL	DUST CONTROL WITH WATER	609.10
			5		EST.	5		TON	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	609.15
			71		4	75		CY	STONE FILL, TYPE I	613.10
			7		1	8		CY	STONE FILL, TYPE I (MOD. - CHECK DAM)	613.10
			45		5	50		CY	STONE FILL, TYPE I (MOD. - CONSTRUCTION ENTRANCE)	613.10
			3		0	3		CY	STONE FILL, TYPE I (MOD. - INLET PROTECTION)	613.10
				2175	25	2200		LF	VERTICAL GRANITE CURB	616.21
				356	4	360		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH (MOD.)	618.10
				8	1	9		SY	DETECTABLE WARNING SURFACE	618.30

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SAND BORROW
1879	CY	PARKING LOT
634	CY	ACCESS ROAD
68	CY	BIORETENTION AREA
1063	CY	BUS LOOP PAID 10/20/06 BY JPH (ESTIMATED)
649	CY	UNDERDRAIN
97	CY	ROUNDING
4590	CY	TOTAL
		TRENCH EXCAVATION OF EARTH
260	CY	TOTAL UNDERDRAIN EXCAVATION
1097	CY	TOTAL PIPE EXCAVATION
217	CY	TOTAL STRUCTURE EXCAVATION
5	CY	TOTAL PAD EXCAVATION
88	CY	TOTAL STONE CHANNEL EXCAVATION
740	CY	TOTAL WATER PIPE EXCAVATION
16	CY	ROUNDING
2163	CY	TOTAL
		BITUMINOUS CONCRETE PAVEMENT (PG 58-28)
1009	T	PARKING LOT/BUS LOOP
278	T	ACCESS ROAD
83	T	BIKE/PEDESTRIAN PATH
10	T	ROUNDING
~~1380~~	T	TOTAL
		SUBBASE OF DENSE GRADED CRUSHED STONE
1740	CY	PARKING LOT
557	CY	ACCESS ROAD
833	CY	BUS LOOP PAID 10/20/06 BY JPH (ESTIMATED)
70	CY	ROUNDING
1400	CY	TOTAL
		STONE FILL, TYPE I
2	CY	STORM DRAIN OUTLET PROTECTION
66	CY	STONE LINED PILOT CHANNEL
3	CY	PAD #2
4	CY	ROUNDING
75	CY	TOTAL
		STONE FILL, TYPE I (MOD.- CONSTRUCTION ENTRANCE)
46	CY	VEHICLE TRACKING PAD
5	CY	ROUNDING
50	CY	TOTAL
		STONE FILL, TYPE I (MOD.- INLET PROTECTION)
2	CY	ROCK BARRIER INLET PROTECTION
1	CY	ROCK BARRIER CULVERT PROTECTION
3	CY	TOTAL
		STONE FILL, TYPE I (MOD.- CHECK DAM)
7	CY	STONE CHECK DAMS
1	CY	ROUNDING
8	CY	TOTAL

NOTE: NO PIPE OPTIONS ARE ALLOWED

Dufresne-Henry

PROJECT NAME: **FERRISBURGH PARK-AND-RIDE**
PROJECT NUMBER: **CMG PARK(15)S/STP EH01(21)**

FILE NAME: **quantities.xls** PLOT DATE: **5/9/2006**
PROJECT LEADER: **WLD** DRAWN BY: **SRZ**
DESIGNED BY: **CSP/GGG** CHECKED BY: **GAS**
QUANTITY SHEET #1 SHEET **4** OF **65**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET #2

SUMMARY OF ESTIMATED QUANTITIES

E&C	STP EH01(21)	LANDSCAP ING.	EROSION CONTROL	PARK-AND-RIDE
				19
			3395	
			973	
	1			
	20			
	3			
	1			
	1			
	450			
	595			
	790			
				40
				80
1				
1				
1				
1				
	0.1			0.9
				1
				3403
				454
				81
				12
				36
				9409
			7411	
				1528
			1089	
	60			960
	125			1950
	0.5			8
	0.5			8
		107		
				1818
				185
		95		
			1	
			250	
			1	
			15487	

TOTALS

ROUND	GRAND TOTAL	FINAL
0	19	
25	3420	
12	985	
0	1	
0	20	
0	3	
0	1	
0	1	
0	450	
0	595	
10	800	
EST.	40	
EST.	80	
0	1	
0	1	
0	1	
0	1	
0	1	
1	1	
67	3470	
6	460	
4	85	
0	12	
4	40	
141	9550	
89	7500	
72	1600	
11	1100	
20	1040	
25	2100	
0.5	9	
0.5	9	
8	115	
42	1860	
15	200	
10	105	
0	1	
0	250	
0	1	
213	15700	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER
EA	BOUNDARY MARKERS	619.10
SY	SNOW FENCE (MOD. - PDF)	620.70
SY	SNOW FENCE (MOD. - ARCH)	620.70
MFBM	INSULATION BOARD	622.10
LF	SEAMLESS COPPER WATER TUBE (3/4")	629.23
EACH	GATE VALVE WITH VALVE BOX (6") (MOD.)	629.27
EACH	GATE VALVE WITH VALVE BOX (8") (MOD.)	629.27
EACH	HYDRANT (MOD.)	629.28
LF	PLASTIC WATER PIPE, RIGID (6")	629.33
LF	PLASTIC WATER PIPE, RIGID (8")	629.33
LB	DUCTILE IRON FITTINGS (MOD.)	629.38
HR	UNIFORMED TRAFFIC OFFICERS	630.10
HR	FLAGGERS	630.15
LS	FIELD OFFICE - ENGINEERS	631.10
LS	TESTING EQUIPMENT - CONCRETE	631.16
LS	TESTING EQUIPMENT - BITUMINOUS	631.17
LU	FIELD OFFICE - TELEPHONE (N.A.B.I.)	631.25
LS	MOBILIZATION/DEMOBILIZATION	635.11
LS	TRAFFIC CONTROL	641.10
LF	DURABLE 4" WHITE LINE	646.40
LF	DURABLE 4" YELLOW LINE	646.41
LF	DURABLE 24" STOP BAR	646.46
EACH	DURABLE LETTER OR SYMBOL	646.50
LF	DURABLE CROSSWALK MARKING W/ DIAGONAL LINES	646.51
SY	GEOTEXTILE FOR ROADBED SUBGRADE SEPARATOR	649.11
SY	GEOTEXTILE UNDER STONE FILL	649.31
SY	GEOTEXTILE FOR UNDERDRAIN TRENCH LINING	649.41
SY	GEOTEXTILE FOR SILT FENCE	649.51
LB	SEED	651.15
LB	FERTILIZER	651.18
TON	AGRICULTURAL LIMESTONE	651.20
TON	HAY MULCH (MOD.- STRAW)	651.25
CY	CEDAR BARK MULCH (MOD. - PINE BARK MULCH)	651.27
CY	TOPSOIL	651.35
CY	TOPSOIL (MOD.)	651.35
CY	TOPSOIL (MOD. - COMPOST)	651.35
LS	EROSION PREVENTION AND SEDIMENT CONTROL PLAN	652.10
HR	MONITORING EROSION PREVENTION AND SEDIMENT CONTROL PLAN	652.20
LU	MAINTENANCE OF EROSION PREVENTION AND SEDIMENT CONTROL PLAN (N.A.B.I.)	652.30
SY	EROSION MATTING	654.10

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK(15)S/STP EH01(21)

FILE NAME: quantities.xls
PROJECT LEADER: WLD
DESIGNED BY: CSP/GGG
QUANTITY SHEET #2

PLOT DATE: 5/10/2006
DRAWN BY: SRZ
CHECKED BY: GAS
SHEET 5 OF 65

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET #3

SUMMARY OF ESTIMATED QUANTITIES

E&C	STP EH01(21)	LANDSCAPING	EROSION CONTROL	PARK-AND-RIDE	TOTALS ROUND	TOTALS GRAND TOTAL	TOTALS FINAL	UNIT	DESCRIPTIONS ITEMS	ITEM NUMBER
		5			0	5		EACH	EVERGREEN TREES - SERBIAN SPRUCE (6 - 7' HT., B&B)	656.20
		14			0	14		EACH	EVERGREEN SHRUBS - ANGLOJAP YEW (18 - 24" HT.)	656.25
		10			0	10		EACH	EVERGREEN SHRUBS - SEAGREEN JUNIPER (3 GAL.)	656.25
		10			0	10		EACH	DECIDUOUS TREES - PLANETREE MAPLE (2.5 - 3" CAL., B&B) DELETED BY C.O. # 1 9/2/2008	656.30
									REPLACE W/ HACKBERRY 2.5"~3" CAL., B&B C.O. # 1	
		9			0	9		EACH	DECIDUOUS TREES - RED MAPLE (2.5 - 3" CAL., B&B)	656.30
		13			0	13		EACH	DECIDUOUS TREES - SARGENT CHERRY (1.5 -2" CAL., B&B)	656.30
		8			0	8		EACH	DECIDUOUS TREES - FLOWERING CRABAPPLES (1.5 - 2" CAL., B&B)	656.30
		7			0	7		EACH	DECIDUOUS TREES - ENGLISH HAWTHORNE (1.5 - 2" CAL., B&B) DELETED BY C.O. # 1 9/2/2008	656.30
									REPLACE W/ AMUR MOAKIA 1.5"~2" CAL., B&B C.O. # 1	
		3			0	3		EACH	DECIDUOUS TREES - REDBUD (1.5 - 2" CAL., B&B)	656.30
		2			0	2		EACH	DECIDUOUS TREES - SHADBUSH CLUMP (6'~ 7' H.T., B&B)	656.30
		2			0	2		EACH	DECIDUOUS TREES - SERVICEBERRY (1.5 - 2" CAL., B&B)	656.30
		10			0	10		EACH	DECIDUOUS SHRUBS - ARROWWOOD (3 GAL.)	656.35
		9			0	9		EACH	DECIDUOUS SHRUBS - REDOSIER DOGWOOD (24 - 36" HT., 3 GAL.)	656.35
		5			0	5		EACH	DECIDUOUS SHRUBS - WINTERBERRY (24 - 36" HT., 3 GAL.)	656.35
		4			0	4		EACH	DECIDUOUS SHRUBS - SPICEBUSH (24 - 36" HT., 3 GAL.)	656.35
				188	7	195		SF	TRAFFIC SIGNS, TYPE A	675.20
				1	0	1		EACH	REST AREA BENCH (MOD. - BIKE RACK)	658.20
									BEGIN OPTION ITEMS	
				600	15	615		LF	FLANGED CHANNEL SIGN POST	675.301
				600	15	615		LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341
									END OPTION ITEMS	
				9	0	9		EACH	REMOVING SIGNS	675.50
				7	0	7		EACH	ERECTING SALVAGED SIGNS	675.60
	2825				0	2825		LF	ELECTRICAL CONDUIT (4")	678.21
				877	0	877		LF	WIRED CONDUIT (2")	678.23
				28	0	28		LF	WIRED CONDUIT (3")	678.23
	6			1	0	7		EACH	JUNCTION BOX	678.26
	4				0	4		EACH	JUNCTION BOX (MOD.)	678.26
				123	0	123		LF	ELECTRICAL CONDUIT SLEEVE (4")	678.30
				56	0	56		LF	ELECTRICAL CONDUIT SLEEVE (6")	678.30
				28	0	28		LF	ELECTRICAL CONDUIT SLEEVE (10")	678.30
				10	0	10		EACH	LIGHT POLE BASE	679.21
				5	0	5		EACH	BREAKAWAY FEATURE FOR LIGHT POLE	679.23
				1	0	1		EACH	POWER STANCHION	679.28
				10	0	10		EACH	LIGHT POLE	679.45
				15	0	15		EACH	BRACKET ARM	679.47
				15	0	15		EACH	LUMINAIRE	679.50

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK(15)S/STP EH01(21)

FILE NAME: quantities.xls
PROJECT LEADER: WLD
DESIGNED BY: CSP/GGG
QUANTITY SHEET #3

PLOT DATE: 6/10/2008
DRAWN BY: SRZ
CHECKED BY: GAS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL SHEET

VERTICAL GRANITE CURB

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	REMARKS
PARKING LOT				
0+41.7	0+89.7		48.1	
0+89.7	3+29.7		240.0	
3+29.7	3+57.7		28.7	
3+57.7	4+02.4		47.9	Curved
4+02.4	4+60.4		62.0	Curved
4+60.4	4+92.8		39.1	Curved
4+96.7	5+03.7		12.4	Curved
5+03.7	5+16.4	39.0		
5+16.4	5+36.0	27.9		
5+36.0	5+52.5	50.5		
5+52.5	5+04.8	92.3		Curved
5+04.8	4+59.1	46.8		Curved
4+50.4	4+20.0	46.8		Curved
4+20.0	4+08.2	32.3		
4+08.2	3+82.1	61.4		Curved
3+52.1	3+54.7	7.4		
3+54.7	3+49.7	7.9		Curved
3+49.7	3+46.7	9.7		
3+49.7	0+49.8	300.9		
0+48.8	0+48.8	9.7		
0+49.3	0+49.3	9.7		
0+49.3	0+44.3	7.9		Curved
0+44.3	0+38.0	6.3		
0+38.0	0+15.0	36.1		Curved
0+15.0	0+15.0	3.3		
0+15.0	0+38.0	36.1		Curved
0+38.0	0+44.3	6.3		
0+44.3	0+49.3	7.9		
0+49.3	0+49.3	9.7		Curved
0+49.3	0+54.3	8.0		
0+60.3	1+30.6	70.3		
1+36.6	2+06.4	69.8		
2+12.4	2+40.3	27.9		
2+40.3	2+49.8	12.7		Curved
2+49.8	2+40.3	12.6		Curved
2+40.3	2+12.4	27.9		
2+06.4	1+36.6	69.8		
1+30.6	0+60.3	5.0		
0+54.3	0+49.3	70.3		
2+64.8	2+74.3	12.6		Curved
2+74.3	2+82.7	8.5		
2+88.7	3+49.7	60.9		
3+49.7	3+49.7	11.7		
3+49.7	3+54.7	7.9		Curved
3+54.7	3+68.0	1.3		
3+56.0	3+61.4	37.0		Curved
3+61.4	3+56.0	37.4		Curved
3+56.0	3+54.7	110.6		
3+54.7	3+49.7	7.9		Curved
3+49.7	3+49.7	9.7		
3+49.7	2+88.7	60.9		
2+82.7	2+74.3	8.5		
2+74.3	2+64.8	12.5		Curved
BUMPER GUARDS (SEE MISCELLANEOUS DETAILS)				
55+46.8	56+62.1	9.0		
55+54.5	55+58.1	9.0		
56+60.8	55+64.5	9.0		
55+87.3	55+72.0	9.0		
55+77.4	55+83.4	9.0		
55+87.8	55+93.8	9.0		
55+98.1	56+04.1	9.0		
56+14.3	56+20.3	9.0		
56+36.0	56+43.5	9.0		
Sub Totals		1695.6	478.9	
Project Subtotal		2174.5		
Rounding		25.5		
Project Total		2200		

CONCRETE SIDEWALK (5")

BEGIN STATION	END STATION	POSITION LEFT SY	POSITION RIGHT SY	REMARKS
PARKING LOT				
0+23	2+50	225		
2+65	3+81	89		
4+01	4+50	42		
Sub Totals		356		
Rounding		4		
Total		360		

GUARD RAIL

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	END TREATMENT BEGIN EA	END TREATMENT END EA

UNDERDRAIN

BEGIN STATION	END STATION	PIPE NO	POSITION	DIA IN	LENGTH FT	TRENCH EARTH CY	TRENCH ROCK CY	GRAN BKFILL CY	FB EA	MKR PST EA
PARKING LOT										
0+46	2+41	U1	LT	6	194	112	PAID AS EST. AMOUNT ON 10/6/06		1	
0+46	2+41	U2	LT	6	194	112			1	
3+47	2+41	P1	LT	12	103	22				
3+47	2+41	P3	LT	12	103	13.5				
BIKE/PED PATH										
55+82	56+42	Bio Area	RT	6	108					
Sub-Totals (6")				6	406	224			2	
Rounding					4				-	
Total (6")					500				2	
Sub-Totals (12")				12	206	36				
Rounding					4					
Total (12")					210					
						260	FORWARD TO DETAILED SUMMARY OF QUANTITIES			

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK(15)S/STP EH01(21)

FILE NAME: itemdetail.xls
PROJECT LEADER: WLD
DESIGNED BY: CSP/GGG
ITEM DETAIL SHEET

PLOT DATE: 4/18/2006
DRAWN BY: MBL
CHECKED BY: GAE
SHEET 7 OF 68

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

STATION	STATION	POS.	PIPE NO.	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS (1)						PIPE ELBOW	EB	CB	FRAME	DEPTH DI	CONC CLASS B	REINF STEEL	DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS		CONC. MANHOLE W/ CI COVER		REMARKS
				INLET (2)	OUTLET	IN	OUT	SPAN IN	RISE IN	t. FT	D IN	t. FT	PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP PI TH	NO. DEG	EA	EA		FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	EA		
PARKING LOT																																										
3+46.8	2+41.2	LT	P1	RCDI																		4.5	2.40	176	D			0	PAID AS EST. AMOUNT ON 9/26/06 BY JPH													SEE UNDERDRAIN ON THE ITEM DETAIL SHEET
2+41.2		LT	P2	CCB							18	65					X				1				D*		66													COVER INCIDENTAL TO CATCH BASIN
3+47.4	2+41.2	LT	P3	RCDI																		4.0	2.17	166	D			0													SEE UNDERDRAIN ON THE ITEM DETAIL SHEET
2+41.2	2+40.8	LT	P4	CCB							24	69					X				1				D*			74	PAID AS EST. AMOUNT ON 9/26/06 BY JPH											COVER INCIDENTAL TO CATCH BASIN
2+40.8	0+54.7	LT	P5	CMH							24	182					X											231											1		CMH-1
0+54.7	0+56.8	LT	P6	CMH							24	27					X				1							61								3	1		1		CMH-2
2+79.3	3+91.8	RT - LT	P8								30	184					X						3.5	17				126													CONSTRUCT NEW HEADWALL AT INLET
3+91.8	5+14.6	LT	P9	CMH							30	196					X											225											1		CMH-3
4+39.4	3+91.8	LT	P10	CCB							24	50					X				1				D*			68													COVER INCIDENTAL TO CATCH BASIN
4+15.7	5+14.8	LT	P11	CCB							24	105					X				1		1.2		D*			122													COVER INCIDENTAL TO CATCH BASIN
5+14.6	5+25.2	LT	P12	CCB							24	41					X				1				D*			56													REMOVE EXISTING 24" CGMP, COVER INCIDENTAL TO CB
3+86.5	4+15.7	LT	P13								12	36				0.064							0.5				17													SEE DRAINAGE DETAIL SHEET FOR DETAIL OF INLET
4+15.7		LT									12	9				0.064																									9' OF 12" CSP FOR TEE, RISER, & TRASH HOOD
PILOT CHANNEL																																										
2+42.0	3+84.0	LT																										88									88	1				CONSTRUCT STONE LINED PILOT CHANNEL
																																					7	1				CONSTRUCT STONE CHECK DAMS
ACCESS ROAD																																										
21+46.2	21+46.0	RT - LT	P7								18	39					X				1		1.8	13				13									2	1				CONSTRUCT NEW HEADWALL AT INLET
Sub Totals											12					45				1	5		11.57	374	2			1147								71	1		3		
											18						104			1	0															7	1				
											24						474																									
											30						360																									
Rounding																				-	-		1.43	6	0											4	1		-		
																				-																	1					
Totals											12					45				1	5		13	380	2			1147								75	1		1		
											18						104			1									(FORWARD TO QUANTITY SUMMARY)								8	1				
											24						474																									
											30						360																									

* INCIDENTAL TO CB

(1) NO PIPE OPTIONS ALLOWED

(2) DI-2 & CB-3 ARE NOT USED

Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK(15)S/STP EH01(21)
FILE NAME: drainage.xls	PLOT DATE: 5/23/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
DRAINAGE SUMMARY SHEET	SHEET 8 OF 65

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME		
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
PARKING LOT									
0+25		957				3			
	25		1040						
0+50		1288				30			
	50		2254				36		
1+00		1146				9			
	50		2123				11		
1+50		1147				3			
	50		1851				6		
2+00		852				4			
	50		1496				37		
2+50		764				36		CUT	16819
	50		1198				257	ROCK	0
3+00		530				242		R.FAC	.495
	50		1022				518	FILL	2551
3+50		574				317		F.FAC	1.15
	50		1273				509	EX. C	13886
4+00		801				233			
	50		1629				588		
4+50		958				402			
	50		1769				476		
5+00		953				112			
	50		1164				112		
5+50		304				9			
ACCESS ROAD									
20+00		0				0			
	50		164				0		
20+50		177				0			
	50		356				0		
21+00		207				0			
	50		430				0		
21+50		257				0			
	50		522				0		
22+00		307				0			
	50		565				0	CUT	3768
22+50		303				0		ROCK	0
	50		470				0	R.FAC	.495
23+00		205				0		FILL	0
	50		389				0	F.FAC	1.15
23+50		215				0		EX. C	3768
	50		397				0		
24+00		214				0			
	50		399				0		
24+50		217				0			
	19		76				0		
24+69		0				0			
BIO. BASIN			309					EX. C	309
OLD U.S. RT. 7				17050	540			ROCK	540

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME		
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME		
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL
0+00	5+50	16819		2551	13886		13886	
20+00	24+69	3768		0	3768		17654	
BIORETENTION BASIN		309		0	309		17963	
OLD ROUTE 7 (BIT PAVE)		540	540				18503	
		21436	540	2551				

REMARKS

EARTH AND ROCK EXCAVATION	**21436**
SOLID ROCK EXCAVATION	540
EARTH EXCAVATION	20896
PLANIMETERED FILL	2551
LESS FACTORED SOLID ROCK	540
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	-
NET PLANIMETERED FILL	3091
FACTOR	0.15
PLANIMETERED FILL INCLUDING FACTOR	**3555**
MATERIALS AVAILABLE FOR FILLS	**22948**
EARTH EXCAVATION	20896
CHANNEL EXCAVATION	0
TRENCH EXCAVATION (3420 X 60%)	2052
STRUCTURE EXCAVATION	-
TOTAL MATERIAL AVAILABLE FOR FILL	
TOTAL FILL INCLUDING FACTOR	3555
TOTAL MATERIAL FOR FILL	22948
BORROW	-
EXCESS EXCAVATION	**19393**

Dufresne-Henry

PROJECT NAME: **FERRISBURGH/VERGS-FERRISBURGH**
PROJECT NUMBER: **CMG PARK(15)S/STP EH01(21)**

FILE NAME: **earthworks.xls** PLOT DATE: **4/18/2006**
PROJECT LEADER: **WLD** DRAWN BY: **MBL**
DESIGNED BY: **CSP/GGG** CHECKED BY: **GAS**
EARTHWORKS SHEET SHEET **9** OF **65**

GPS CONTROL POINTS

P 65, STAMPED - P 65 1984

DIRECTION	ACTUAL GRID POINTS		SHIFT TO FIT MICROSTATION DESIGN PLANE	PROJECT SPECIFIC COORDINATE POINTS
	METRIC	ENGLISH		
N	187156.483	614030.460'	-600,000	14,030.460'
E	440524.330	1445289.380'	-1,400,000	45,289.380'
Z	65.725 m	215.63'	N/A	215.63'

GENERAL LOCATION, VERGENNES, VT.
TO REACH FROM THE INTERSECTION OF U.S ROUTE 7 AND VT ROUTE 22A NORTHEAST OF VERGENNES GO SOUTH ALONG U.S. ROUTE 7 FOR 0.05 MI (0.08 KM) TO THE MARK ON THE RIGHT. THE MARK IS SET IN THE TOP OF A MASSIVE SLOPING ROCK OUTCROP. IT IS 17.0 M (55.8 FT) WEST OF AND ABOUT 3 M (9.8 FT) HIGHER THAN THE WEST EDGE OF PAVEMENT OF U.S. ROUTE 7, 98.8 M (324.1 FT) SOUTH OF THE SOUTH EDGE OF PAVEMENT OF VT ROUTE 22A, 13.4 M (44.0 FT) SOUTHWEST OF THE CENTER OF A DROP INLET, AND 3.6 M (11.8 FT) EAST OF A FIBERGLASS WITNESS POST.

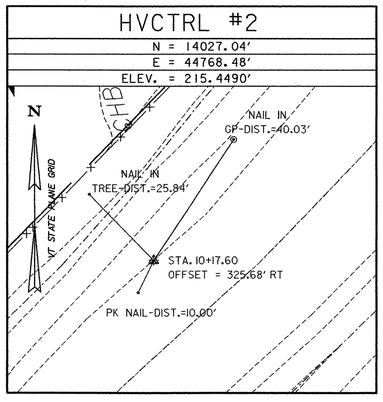
P 65 AZ MK, STAMPED - P 65 AZ MK 1996

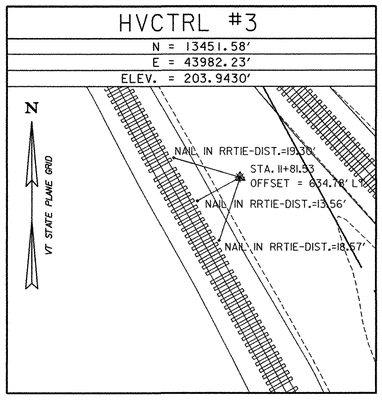
DIRECTION	ACTUAL GRID POINTS		SHIFT TO FIT MICROSTATION DESIGN PLANE	PROJECT SPECIFIC COORDINATE POINTS
	METRIC	ENGLISH		
N	187970.690	616701.739'	-600,000	16,701.739'
E	440121.306	1,443,967.539'	-1,400,000	43,967.539'
Z	73.099 m	239.83'	N/A	239.83'

GENERAL LOCATION, FERRISBURGH, VT.
TO REACH FROM THE INTERSECTION OF VERMONT ROUTE 22A AND U.S. ROUTE 7 PROCEED NORTH ALONG U.S. ROUTE 7 FOR 0.5 MI (0.8 KM) TO TUPPERS CROSSING ROAD LEFT. PROCEED WEST ALONG TUPPERS CROSSING ROAD FOR 400 FT (121.9 M) TO THE MARK ON THE LEFT. THE MARK IS 110 FT (33.5 M) NORTHWEST OF A 24 IN. BASS TREE, 107 FT (32.6 M) SOUTH OF THE CENTERLINE OF TUPPERS CROSSING ROAD AND 93 FT (28.3 M) SOUTH OF A FIBERGLASS WITNESS POST.

*TO ALLOW THE STATE PLANE COORDINATES TO FIT THE AGENCY DESIGN PLANE, SUBTRACT 600,000 FROM THE NORTHING AND SUBTRACT 1,400,000 FROM THE EASTING.
* DESCRIPTION PROVIDED BY VREMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES





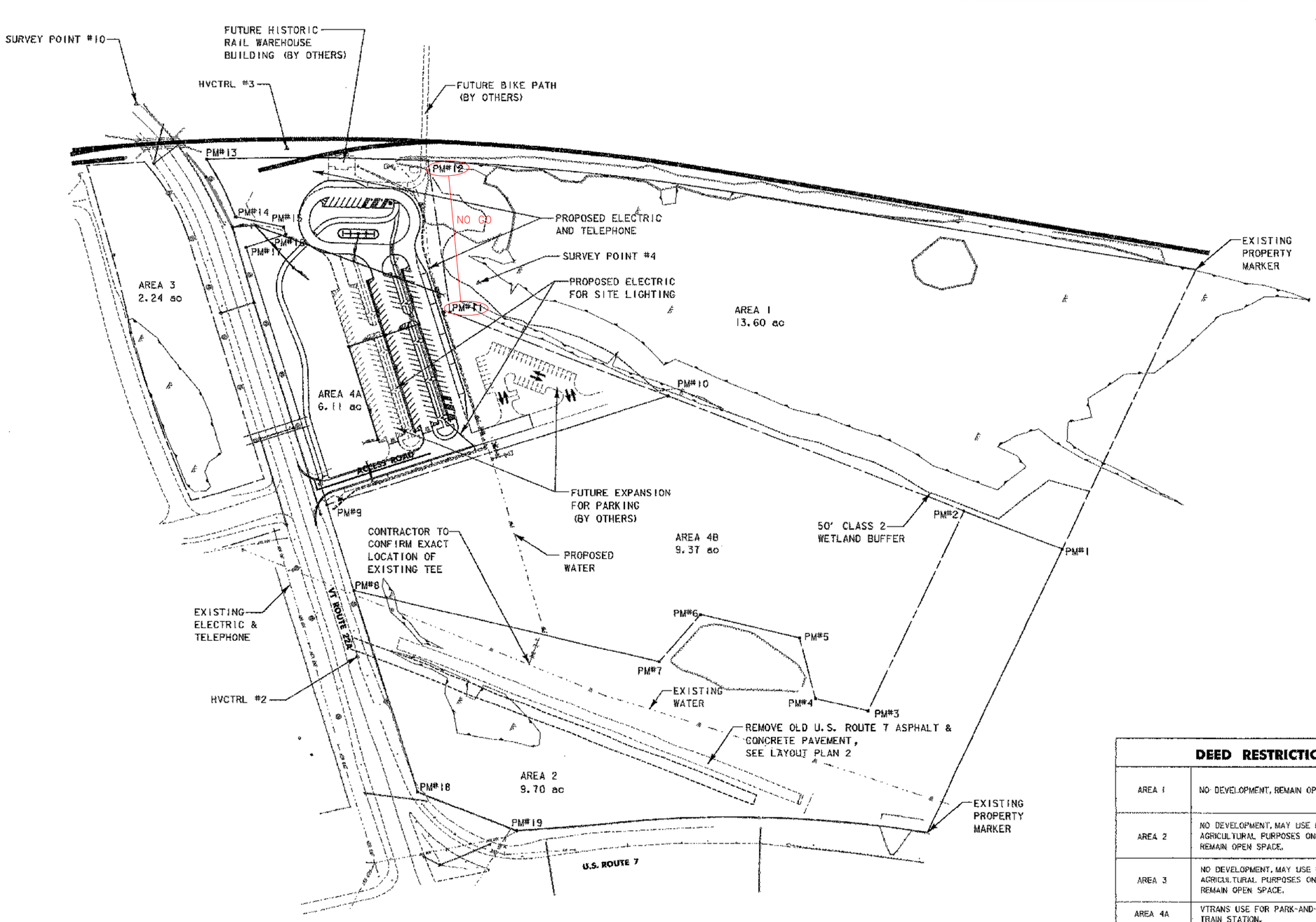
ALIGNMENT TIES

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)
ADJUSTMENT	none

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\10tiesheet.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
SURVEY TIE SHEET	SHEET 10 OF 65

Dufresne-Henry



PROPERTY MARKER LAYOUT POINTS

POINT #	N	E
PM#1	15113.84	43948.72
PM#2	14914.81	43974.34
PM#3	14934.33	44396.85
PM#4	14834.91	44423.73
PM#5	14752.99	44336.03
PM#6	14585.72	44386.65
PM#7	14539.14	44503.67
PM#8	13961.08	44659.92
PM#9	13839.64	44541.78
PM#10	14314.92	44051.58
PM#11	13873.22	44108.45
PM#12	13699.84	43875.62
PM#13	13328.35	44072.64
PM#14	13426.33	44142.31
PM#15	13516.36	44115.78
PM#16	13527.04	44126.01
PM#17	13471.72	44183.80
PM#18	14248.77	44937.83
PM#19	14450.32	44912.53

DEED RESTRICTIONS		ACRES	% OF TOTAL
AREA 1	NO DEVELOPMENT, REMAIN OPEN SPACE.	13.60	33.2%
AREA 2	NO DEVELOPMENT, MAY USE FOR AGRICULTURAL PURPOSES ONLY. REMAIN OPEN SPACE.	9.70	23.6%
AREA 3	NO DEVELOPMENT, MAY USE FOR AGRICULTURAL PURPOSES ONLY. REMAIN OPEN SPACE.	2.24	5.5%
AREA 4A	VTRANS USE FOR PARK-AND-RIDE & TRAIN STATION.	6.11	14.9%
AREA 4B	AVAILABLE REMAINDER TO TOWN OF FERRISBURGH. ZONING ALLOWS A MAXIMUM OF 4.5 ACRES FOR LIGHT INDUSTRIAL USE. NO RETAIL ALLOWED.	9.37	22.8%
	TOTAL	41.02	

LEGEND

- EXISTING RAILROAD TRACKS
- EXISTING EDGE OF ROAD
- EXISTING DRAINAGE DITCH
- EXISTING FENCE
- EXISTING UTILITIES
- EXISTING GUARDRAIL
- EXISTING WETLANDS
- EXISTING WOODS
- EXISTING TREE
- DEED RESTRICTION BOUNDARIES
- PW — PROPOSED WATER LINE
- PUE — PROPOSED ELECTRIC LINE
- PROPOSED PROPERTY MARKER

NOTES:

1. SEE LIGHTING PLANS FOR DETAILS OF PARK-AND-RIDE SITE LIGHTING & ELECTRIC SERVICE TO TRAIN STATION.
2. SEE WATER PLAN SHEETS FOR DETAILS OF WATER SERVICE TO FUTURE TRAIN STATION.
3. CONTRACTOR TO INSTALL NEW BOUNDARY MARKERS AT LOCATIONS SHOWN ON PLAN. SEE PROPERTY MARKER LAYOUT POINTS TABLE. REFERENCE VAOT STANDARD J-1. DO NOT STAMP THE LETTERS VT AOT ON EACH BOUNDARY MARKER.

0 100 200
SCALE

DH Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\siteplan.ptf
PLOT DATE: 5/9/2006
PROJECT LEADER: WLD
DRAWN BY: MBL
DESIGNED BY: CSP/GGG
CHECKED BY: GAS
SITE PLAN & UTILITIES
SHEET # OF 65

NOTES: (1) FOR DESCRIPTIONS OF LAYOUT POINTS AND CURVE DATA, SEE LAYOUT POINTS & CONSTRUCTION NOTES SHEET.

(2) FOR CONSTRUCTION NOTES, SEE LAYOUT POINTS & CONSTRUCTION NOTES SHEET.

(3) ALL SIDEWALKS ENTERING A CROSSWALK SHALL HAVE THE APPROPRIATE RAMP CONSTRUCTED PER VTrans STANDARDS C-3A & C-3B..

(4) IF CURB RADIUS IS NOT DEFINED ASSUME R=5.0

N

VT STATE PLANE GRID

FUTURE OUTBUILDING (BY OTHERS)

BIKE/PEDESTRIAN PATH STA. 57+02.40
END BIKE/PEDESTRIAN PATH CONSTRUCTION

ACCESS ROAD STA. 24+69.35
END CONSTRUCTION

MATCHLINE – SEE LAYOUT PLAN 3

SURVEY POINT #4
4 HVCTRL

METAL HAND RAILING (MOD.)

FUTURE BIKE PATH (BY OTHERS)

PARKING LOT STA. 4+50.65 = BIKE/PEDESTRIAN PATH STA. 56+77.34

TOE OF SLOPE OF TEMPORARY STOCKPILE (SEE EPSC PLANS FOR DETAILS)

10' TEMPORARY CONSTRUCTION EASEMENT FOR WATERLINE (SEE WATER PLANS) PG 50

PARKING LOT STA. 6+23.31

PARKING LOT STA. 0+00.00 = ACCESS ROAD STA. 23+42.05 (LP #1)

CONSTRUCTION LIMITS

AREA FINISHED W/ CONCRETE TO MATCH FAR END

VERTICAL GRANITE CURB (TYP.)

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH (TYP.) FOR DETAIL OF SIDEWALK AT LIGHT POSTS, SEE MISCELLANEOUS DETAIL SHEET

S44°06'51.840"W

N45°53'08.115"W

SURVEY POINT #3
3 HVCTRL

RELOCATED HISTORIC TRAIN STATION (BY OTHERS)

GRANITE BUMPER GUARDS PAID FOR AS VERTICAL GRANITE CURB. (FOR DETAILS, SEE MISCELLANEOUS DETAIL SHEET)

EXISTING RAIL SIDING TO BE REMOVED (BY OTHERS)

ACCESS ROAD STA. 20+20.00
BEGIN CONSTRUCTION

ACCESS ROAD STA. 20+00.00 = VT ROUTE 22A STA. 38+05.20

BIKE/PEDESTRIAN PATH STA. 50+00.00 = ACCESS ROAD STA. 20+68.48

10 HVCTRL
SURVEY POINT #10

CLASS 3 WETLAND

MATCHLINE STA. 40+50 – SEE LAYOUT PLAN 2

0 40 80
SCALE: 1" = 40'

Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\12layout01.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGC	CHECKED BY: GAS
LAYOUT PLAN 1	SHEET 12 OF 65

N

VT STATE PLANE GRID

MATCHLINE – SEE LAYOUT PLAN 3

MATCHLINE STA. 40+50 – SEE LAYOUT PLAN 1

TOE OF SLOPE OF TEMPORARY STOCKPILE (SEE EPSC PLANS FOR DETAILS)

10' TEMPORARY CONSTRUCTION EASEMENT

REMOVE OLD U.S. ROUTE 7 AND RESTORE TO NATURAL CONDITION, SEE NOTES.

SAFE VALVE

FORMER U.S. ROUTE 7

RELINQUISHED TO TOWN OF FERRISBURGH

METER 33/396

U.S. ROUTE 7

24"RCP

CLASS 3 WETLAND

CLASS 3 WETLAND

HW PROFILE 43

METER 33/396

12"RCPEP

12"RCPEP

12"RCPEP

12"RCPEP

2 HVCTRL SURVEY POINT #2

41+00 42+00 43+00 44+00 45+00 45+78

AER E&T AER E&T AER E&T

NOTES:

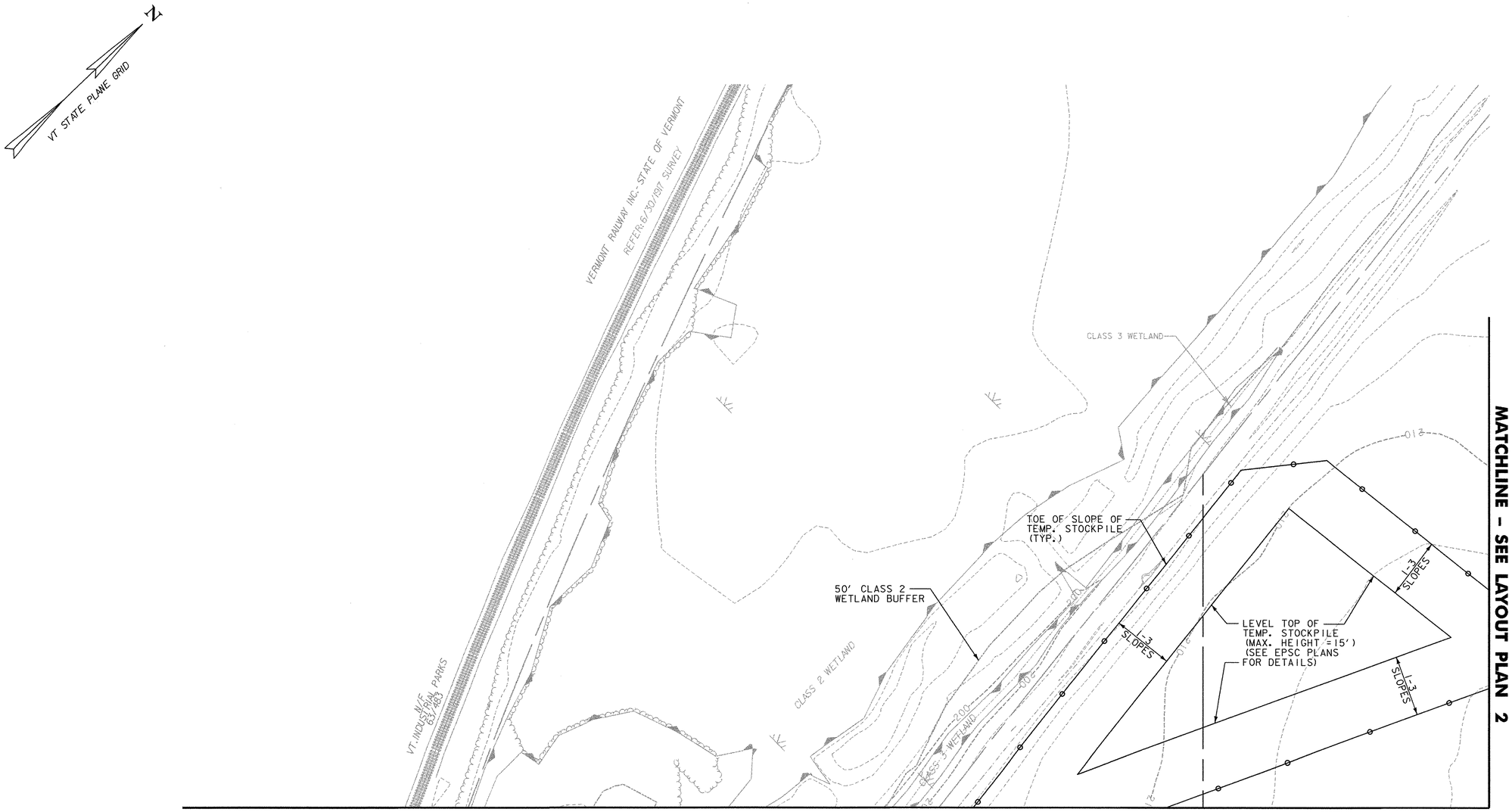
1. EXCAVATE EXISTING ASPHALT AND CONCRETE ROAD (ASSUME 10" DEPTH).
2. HARROW SUBSURFACE TO BREAK UP COMPACTED BASE. BACKFILL AND GRADE TO DRAIN.
3. PLACE 4" OF TOPSOIL, SEED, FERTILIZER, LIMESTONE, AND MULCH PER SEEDING FORMULA AND NOTES SHOWN ON TYPICAL SECTIONS SHEET.
4. REMOVAL AND DISPOSAL OF ASPHALT AND CONCRETE TO BE PAID FOR AS SOLID ROCK EXCAVATION.
5. ACCESS TO EXCAVATION OF OLD U.S. ROUTE 7 SHALL BE FROM PARK-AND-RIDE ACCESS ROAD. CONSTRUCTION ACCESS FROM U.S. ROUTE 7 IS PROHIBITED.
6. CONTRACTOR SHALL NOT OPERATE EQUIPMENT OUTSIDE OF CONSTRUCTION FENCE.
7. CONSTRUCTION FENCE TO BE PAID FOR UNDER 620.70 - SNOW FENCE (MOD. - PDF) OR (MOD. - ARCH) AS APPLICABLE.
8. CONSTRUCTION FENCE SHALL NOT BE PLACED IN WETLANDS.
9. WORK ON OLD U.S. ROUTE 7 NEAR CLASS 3 WETLANDS SHALL BE HARROWED, BACKFILLED, AND MULCHED IMMEDIATELY AFTER EXCAVATION TO PREVENT SEDIMENT FROM ENTERING WETLANDS.

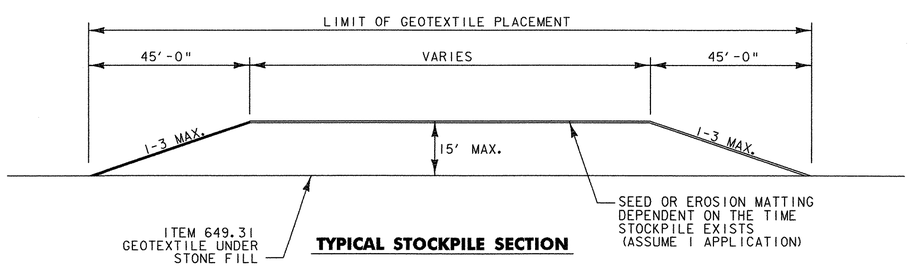
0 40 80

SCALE: 1" = 40'

Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\13layout02.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
LAYOUT PLAN 2	SHEET 13 OF 65





TYPICAL STOCKPILE SECTION

0 40 80
SCALE: 1" = 40'

Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\14layout03.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL/SRZ
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
LAYOUT PLAN 3	SHEET 14 OF 65

LAYOUT POINTS

LAYOUT POINT SUMMARY	
LAYOUT POINTS	
LAYOUT POINT #1	LAYOUT POINT #8 - RADIUS = 10'
N14019.06	N13824.05
E44308.84	E44164.76
ACCESS RD. STA 23+42.05 = PARKING LOT STA. 0+00.00	PARKING LOT STA 2+40.30
OFF 0.00'	OFF 32.20' LT.
LAYOUT POINT #2	LAYOUT POINT #9 - RADIUS = 10'
N13571.56	N13799.68
E43874.96	E44141.13
PARKING LOT STA 6+23.31	PARKING LOT STA 2+74.25
OFF 0.00'	OFF 32.30' LT.
LAYOUT POINT #3 - RADIUS = 63'	LAYOUT POINT #10 - RADIUS = 25.63'
N13685.99	N13741.71
E44014.38	E44083.52
PARKING LOT STA 4+44.10	PARKING LOT STA 3+56.00
OFF 20.44' LT.	OFF 31.30' LT.
LAYOUT POINT #4A - RADIUS = 80'	LAYOUT POINT #11 - RADIUS = 50'
N13607.48	N13798.65
E44054.54	E44005.64
PARKING LOT STA 4+72.51	PARKING LOT STA 3+69.30
OFF 103.92' LT.	OFF 64.26' LT.
LAYOUT POINT #4B - RADIUS = 63'	LAYOUT POINT #12 - RADIUS = 50'
N13591.74	N13672.66
E44060.91	E44146.99
PARKING LOT STA 4+79.37	PARKING LOT STA 3+61.37
OFF 119.48' LT.	OFF 124.93' LT.
LAYOUT POINT #5	LAYOUT POINT #13 - RADIUS = 25'
N13780.96	N13920.83
E44554.42	E44355.61
ACCESS RD. STA 20+00.00 = VT ROUTE 22A STA. 38+05.20	PARKING LOT STA 0+37.97
OFF 0.00'	OFF 101.96' LT.
LAYOUT POINT #6 - RADIUS = 23'	LAYOUT POINT #14 - RADIUS = 50'
N13970.49	N13784.77
E44304.39	E44459.99
ACCESS RD. STA 23+11.44	ACCESS RD. STA 20+70.44
OFF 37.97' LT.	OFF 63.00' LT.
LAYOUT POINT #7 - RADIUS = 23'	LAYOUT POINT #15 - RADIUS = 50'
N13968.17	N13785.23
E44306.79	E44547.70
ACCESS RD. STA 23+08.10	ACCESS RD. STA 20+70.44
OFF 37.97' LT.	OFF 63.00' RT.

CURVE DATA

BIKE PATH CURVE DATA			
CURVE #1	CURVE #2	CURVE #3	CURVE #4
PI 51+43.06	PI 52+47.03	PI 54+11.24	PI 55+48.71
PC 51+28.53	PC 52+14.69	PC 53+63.94	PC 55+27.31
PT 51+57.40	PT 52+78.63	PT 54+47.64	PT 55+67.91
Δ = 16°12'55.25" RT.	Δ = 21°10'32.64" LT.	Δ = 66°36'17.84" RT.	Δ = 44°44'29.21" RT.
D = 56°10'20.40"	D = 33°07'08.21"	D = 79°34'38.90"	D = 110°11'03.09"
R = 102.00'	R = 173.00'	R = 72.00'	R = 52.00'
T = 14.53'	T = 32.34'	T = 47.30'	T = 21.40'
L = 28.87'	L = 63.94'	L = 83.70'	L = 40.61'
E = 1.03'	E = 3.00'	E = 14.15'	E = 4.23'
CURVE #5	CURVE #6	CURVE #7	
PI 56+43.64	PI 56+62.90	PI 56+83.26	
PC 56+31.47	PC 56+55.68	PCC 56+69.85	
PCC 56+55.68	PT 56+69.85	PT 56+95.08	
Δ = 14°17'51.37" LT.	Δ = 27°03'57.59" LT.	Δ = 48°10'52.02" LT.	
D = 59°04'04.13"	D = 190°59'09.35"	D = 109°59'09.35"	
R = 97.00'	R = 30.00'	R = 30.00'	
T = 12.17'	T = 7.22'	T = 13.41'	
L = 24.21'	L = 14.17'	L = 25.23'	
E = 0.76'	E = 0.86'	E = 2.86'	

SURVEY POINTS

SURVEY POINTS
HVCTRL #2
N14027.04
E44768.48
STA 20+17.60
OFF 325.68' RT.
HVCTRL #3
N13451.58
E43982.23
STA 55+41.83
OFF 166.76' LT.
SURVEY POINT #4
N13894.61
E44033.64
STA 2+80.91
OFF 110.95' RT.
SURVEY POINT #10
N13157.94
E44042.64

CONSTRUCTION NOTES

VERTICAL GRANITE CURB

LOCATION
STA. 0+41.7, 12.4' RT. - STA. 0+89.7, 22.4' RT.
STA. 0+89.7, 22.4' RT. - STA. 3+29.7, 22.4' RT.
STA. 3+29.7, 22.4' RT. - STA. 3+57.7, 15.6' RT.
STA. 3+57.7, 15.6' RT. - STA. 4+02.4, 26.8' RT.
STA. 4+02.4, 26.8' RT. - STA. 4+60.4, 40.4' RT.
STA. 4+60.4, 40.4' RT. - STA. 4+92.8, 19.6' RT.
STA. 4+98.7, 11.1' RT. - STA. 5+03.7, 0.0' RT.
STA. 5+03.7, 0.4' RT. - STA. 5+16.4, 36.5' LT.
STA. 5+16.4, 36.5' LT. - STA. 5+36.0, 56.4' LT.
STA. 5+36.0, 56.4' LT. - STA. 5+52.5, 104.1' LT.
STA. 5+52.5, 104.1' LT. - STA. 5+04.8, 177.1' LT.
STA. 5+04.8, 177.1' LT. - STA. 4+59.1, 179.1' LT.
STA. 4+50.0, 175.2' LT. - STA. 4+20.0, 140.6' LT.
STA. 4+20.0, 140.6' LT. - STA. 4+09.2, 110.2' LT.
STA. 4+09.2, 110.2' LT. - STA 3+62.1, 76.9' LT.
STA. 3+62.1, 76.9' LT. - STA. 3+54.7, 76.9' LT.
STA. 3+54.7, 76.9' LT. - STA. 3+49.7, 81.9' LT.
STA. 3+49.7, 81.9' LT. - STA. 3+49.7, 91.7' LT.
STA. 3+49.7, 91.7' LT. - STA. 0+48.8, 91.7' LT.
STA. 0+48.8, 91.7' LT. - STA. 0+48.8, 81.7' LT.
STA. 0+49.3, 42.3' LT. - STA. 0+49.3, 52.0' LT.
STA. 0+49.3, 52.0' LT. - STA. 0+44.3, 57.0' LT.
STA. 0+44.3, 57.0' LT. - STA. 0+38.0, 57.0' LT.
STA. 0+38.0, 57.0' LT. - STA. 0+15.0, 34.0' LT.
STA. 0+15.0, 34.0' LT. - STA. 0+15.0, 30.6' LT.
STA. 0+15.0, 30.6' LT. - STA. 0+38.0, 7.6' LT.
STA. 0+38.0, 7.6' LT. - STA. 0+44.3, 7.6' LT.
STA. 0+44.3, 7.6' LT. - STA. 0+49.3, 12.6' LT.
STA. 0+49.3, 12.6' LT. - STA. 0+49.3, 22.4' LT.
STA. 0+49.3, 22.4' LT. - STA. 0+54.3, 22.4' LT.
STA. 0+60.3, 22.4' LT. - STA. 1+30.6, 22.4' LT.
STA. 1+36.6, 22.4' LT. - STA. 2+06.4, 22.4' LT.
STA. 2+12.4, 22.4' LT. - STA. 2+40.3, 22.4' LT.
STA. 2+40.3, 22.4' LT. - STA. 2+49.8, 29.4' LT.
STA. 2+49.8, 35.4' LT. - STA. 2+40.3, 42.3' LT.
STA. 2+40.3, 42.3' LT. - STA. 2+12.4, 42.3' LT.
STA. 2+06.4, 42.3' LT. - STA. 1+36.6, 42.3' LT.
STA. 1+30.6, 42.3' LT. - STA. 0+60.3, 42.3' LT.
STA. 0+54.3, 42.3' LT. - STA. 0+49.3, 42.3' LT.
STA. 2+64.8, 29.4' LT. - STA. 2+74.3, 22.4' LT.
STA. 2+74.3, 22.4' LT. - STA. 2+82.7, 22.4' LT.
STA. 2+88.7, 22.4' LT. - STA. 3+49.7, 22.4' LT.
STA. 3+49.7, 22.4' LT. - STA. 3+49.7, 10.7' LT.
STA. 3+49.7, 10.7' LT. - STA. 3+54.7, 5.7' LT.
STA. 3+54.7, 5.7' LT. - STA. 3+56.0, 5.7' LT.
STA. 3+56.0, 5.7' LT. - STA. 3+81.4, 28.1' LT.
STA. 3+81.4, 34.1' LT. - STA. 3+56.0, 56.9' LT.
STA. 3+56.0, 56.9' LT. - STA. 3+54.7, 56.9' LT.
STA. 3+54.7, 56.9' LT. - STA. 3+49.7, 51.9' LT.
STA. 3+49.7, 51.9' LT. - STA. 3+49.7, 42.3' LT.
STA. 3+49.7, 42.3' LT. - STA. 2+88.7, 42.3' LT.
STA. 2+82.7, 42.3' LT. - STA. 2+74.3, 42.3' LT.
STA. 2+74.3, 42.3' LT. - STA. 2+64.8, 35.4' LT.

22.2 CT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

LOCATION
PARKING LOT STA. 0+23, LT. - STA. 2+50, LT.
PARKING LOT STA. 2+65, LT. - STA. 3+81, LT.
PARKING LOT STA. 4+01, LT. - STA. 4+50, LT.

VERTICAL GRANITE CURB (FOR BUMPER GUARDS)

LOCATION
STA. 55+48.8, 36.6' LT. - STA. 55+52.1, 34.6' LT.
STA. 55+54.5, 33.3' LT. - STA. 55+58.1, 31.9' LT.
STA. 55+60.8, 31.1' LT. - STA. 55+64.5, 30.5' LT.
STA. 55+67.3, 30.2' LT. - STA. 55+72.0, 30.1' LT.
STA. 55+77.4, 30.1' LT. - STA. 55+83.4, 30.0' LT.
STA. 55+87.8, 29.9' LT. - STA. 55+93.8, 29.8' LT.
STA. 55+98.1, 29.7' LT. - STA. 56+04.1, 29.6' LT.
STA. 56+14.3, 29.5' LT. - STA. 56+20.3, 29.4' LT.
STA. 56+35.0, 29.1' LT. - STA. 56+43.5, 28.6' LT.

NOTE: SEE DETAIL FOR VERTICAL GRANITE BUMPER GUARD ON MISCELLANEOUS DETAIL SHEET

METAL HAND RAILING (MOD.) (FOR BICYCLE RACK)

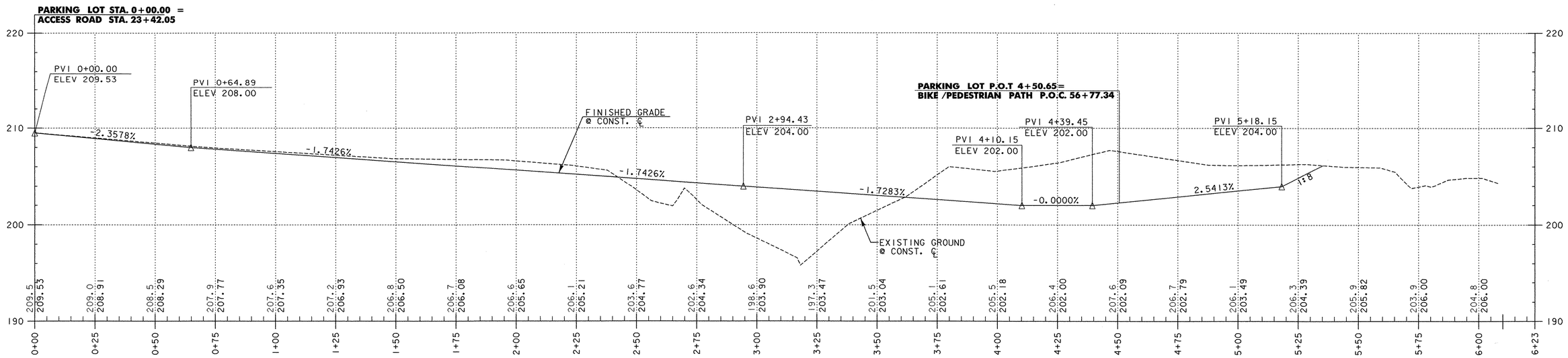
LOCATION
PARKING LOT STA. 4+80, LT.

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EHOI(21)

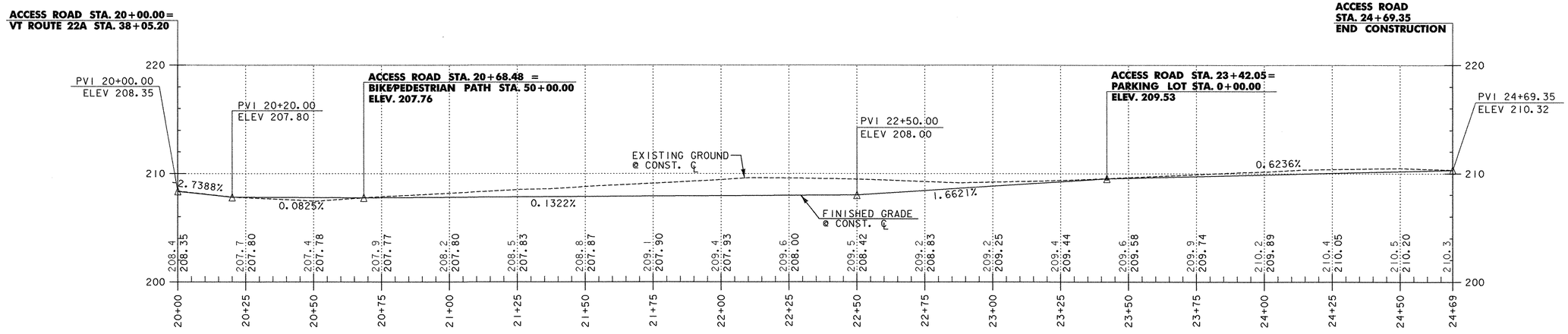
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PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: CSP/GGG CHECKED BY: GAS
LAYOUT POINTS & CONST. NOTES SHEET 15 OF 65

DH Dufresne-Henry

PARKING LOT PROFILE



ACCESS ROAD PROFILE



VERTICAL 0 5 10 15

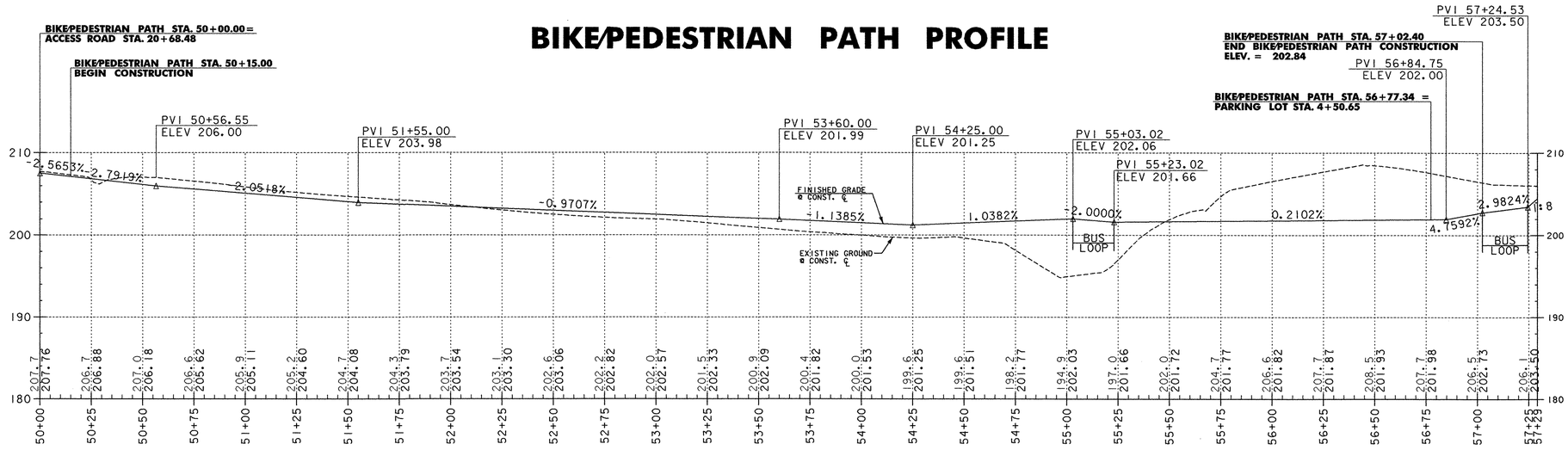
HORIZONTAL 0 20 40 60

SCALE IN FEET

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\16-17profile.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
PROFILE SHEET 1	SHEET 16 OF 65

Dufresne-Henry

BIKE/PEDESTRIAN PATH PROFILE



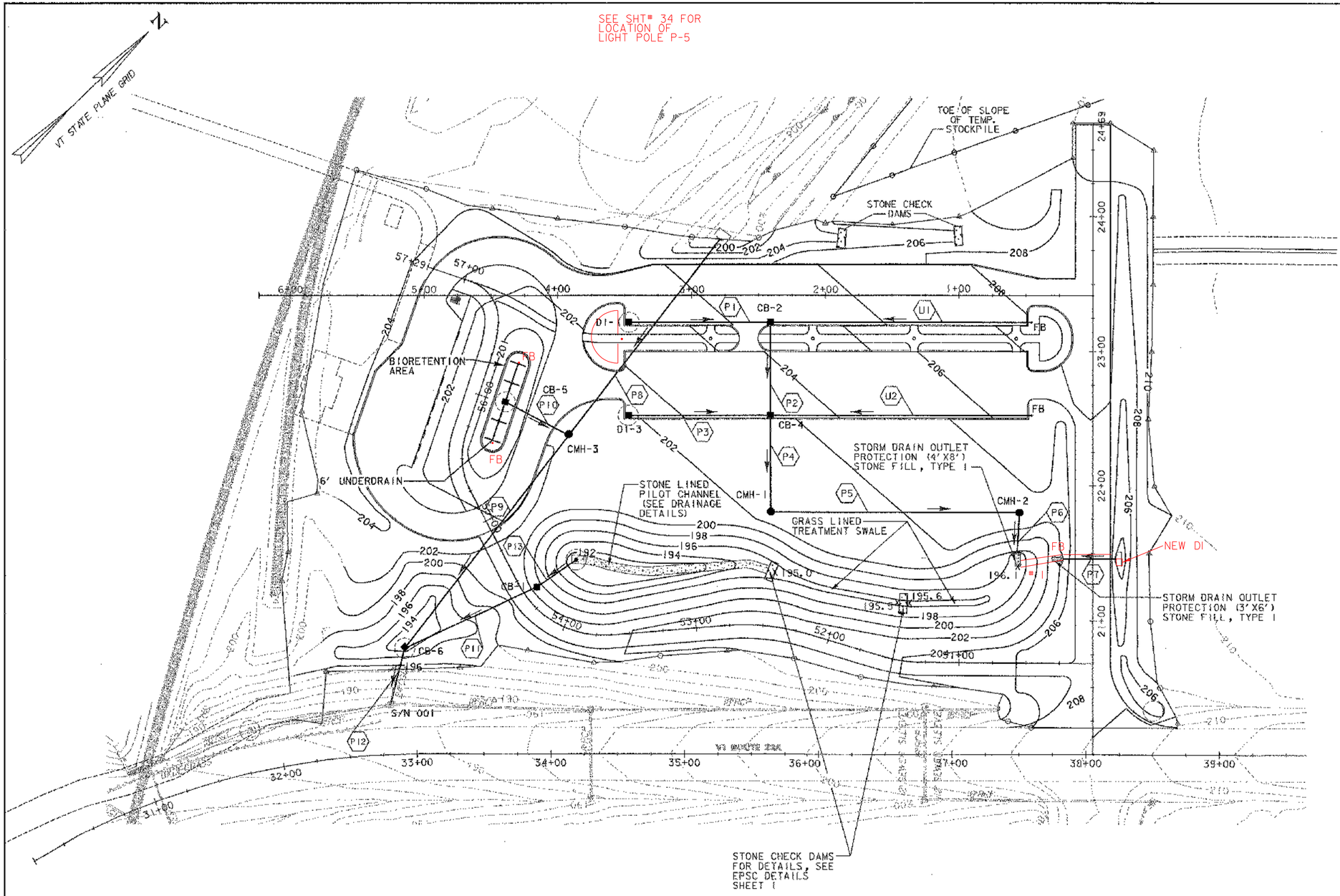
VERTICAL 0 5 10 15

HORIZONTAL 0 20 40 60

SCALE IN FEET

Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\16-17profile.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
PROFILE SHEET 2	SHEET 17 OF 65



STORMWATER NOTES

1. PRIOR TO COMMENCING SITE WORK, THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. THE RESIDENT ENGINEER SHALL BE NOTIFIED WITHIN 48 HOURS WHERE DISCREPANCIES EXIST BETWEEN THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS.
2. THE CONTRACTOR SHALL CONTACT DIG SAFE (1-888-344-7233) SEVENTY-TWO HOURS PRIOR TO ANY EXCAVATION TO ACCURATELY ESTABLISH THE LOCATION OF ALL UNDERGROUND UTILITIES LOCATED ON THE PROJECT SITE.
3. IMPERVIOUS AREAS (DISCHARGING TO S/N 001)
   EXISTING: 0.00 ac
   PROPOSED: 73,992 SF (1.70 ac)
4. FLOWS TO IMPACT POINT (S/N 001)

	PRE	POST
2 YR	9.42 cfs	9.21 cfs
10 YR	21.94 cfs	20.46 cfs
100 YR	39.68 cfs	38.01 cfs

5. FOR CONSTRUCTION NOTES AND DETAILS OF POND OUTLET STRUCTURE AND RISER PIPE, SEE DRAINAGE DETAIL SHEET 1.
6. FOR CONSTRUCTION NOTES AND DETAILS OF GRASS LINED TREATMENT SWALE, SEE DRAINAGE DETAIL SHEET 1.
7. FOR CONSTRUCTION NOTES AND DETAILS OF STONE LINED PILOT CHANNEL, SEE DRAINAGE DETAIL SHEET 1.
8. FOR CONSTRUCTION NOTES AND DETAILS OF STORM DRAIN OUTLET PROTECTION, SEE DRAINAGE DETAIL SHEET 1.
9. FOR CONSTRUCTION NOTES AND DETAILS OF BIORETENTION AREA, SEE DRAINAGE DETAIL SHEET 2.
10. FOR CONSTRUCTION NOTES AND DETAILS OF STONE CHECK DAMS, SEE EROSION CONTROL DETAIL SHEET 1.
11. NO PIPE OPTIONS WILL BE ALLOWED.

(P1) STA. 3+46.8, 20.3' LT. TO STA. 2+41.2, 20.3' LT.
NEW 12" X 103' UNDERDRAIN, INV. IN 199.90, INV. OUT 199.20
CONSTRUCT NEW RCDI (DI-1) W/ TYPE D GRATE AT INLET, RIM 202.9

(P2) STA. 2+41.2, 20.3' LT. TO STA. 2+41.2, 89.5' LT.
NEW 18" X 65' CPEP (SL), INV. IN 199.10, INV. OUT 198.60
CONSTRUCT NEW CCB (CB-2) W/TYPE D GRATE AT INLET, RIM 204.3

(P3) STA. 3+47.4, 89.5' LT. TO STA. 2+41.2, 89.5' LT.
NEW 12" X 103' UNDERDRAIN, INV. IN 199.10, INV. OUT 198.60
CONSTRUCT NEW RCDI (DI-3) AT INLET, GRATE TYPE D, RIM 201.9

(P4) STA. 2+41.2, 89.5' LT. TO STA. 2+40.8, 161.6' LT.
NEW 24" X 69' CPEP (SL), INV. IN 198.50, INV. OUT 198.10
CONSTRUCT NEW CCB (CB-4) W/TYPE D GRATE AT INLET, RIM 203.1

(P5) STA. 2+40.8, 161.6' LT. TO STA. 0+54.7, 161.9' LT.
NEW 24" X 182' CPEP (SL), INV. IN 198.00, INV. OUT 197.10
CONSTRUCT NEW CMH (CMH-1) W/ CAST IRON COVER AT INLET, RIM 202.2

(P6) STA. 0+54.7, 161.9' LT. TO STA. 0+56.6, 190.5' LT.
NEW 24" X 27' CPEP (SL), INV. IN 197.00, INV. OUT 196.80
CONSTRUCT NEW CMH (CMH-2) W/ CAST IRON COVER AT INLET, RIM 205.0
NEW 24" CPEPES AND STONE FILL, TYPE I AT OUTLET

(P7) STA. 21+46.2, 16.7' RT. TO STA. 21+46.0, 22.4' LT.
NEW 18" X 39' CPEP (SL), INV. IN 203.50, INV. OUT 203.10
CONSTRUCT NEW ~~REINFORCED CONCRETE HEADWALL~~ AT INLET
NEW 18" CPEPES AND STONE FILL, TYPE I AT OUTLET

(P8) STA. 2+79.3, 40.9' RT. TO STA. 3+91.8, 104.2' LT.
NEW 30" X 184' CPEP (SL), INV. IN 197.00, INV. OUT 192.10
CONSTRUCT NEW REINFORCED CONCRETE HEADWALL AT INLET

(P9) STA. 3+91.8, 104.2' LT. TO STA. 5+14.6, 262.4' LT.
NEW 30" X 196' CPEP (SL), INV. IN 192.00, INV. OUT 188.00
CONSTRUCT NEW CMH (CMH-3) W/ CAST IRON COVER AT INLET, RIM 201.80

(P10) STA. 4+39.4, 79.4' LT. TO STA. 3+91.8, 104.2' LT.
NEW 24" X 50' CPEP (SL), INV. IN 193.50, INV. OUT 193.05
CONSTRUCT NEW CCB (CB-5) W/ TYPE D GRATE AT INLET, RIM 200.5

(P11) STA. 4+15.7, 216.7' LT. TO STA. 5+14.6, 262.4' LT.
NEW 24" X 105' CPEP (SL), INV. IN 191.00, INV. OUT 190.00
CONSTRUCT NEW CCB (CB-1) W/TYPE D GRATE AT INLET, RIM 199.0
(SEE NOTE 5)

(P12) STA. 5+14.6, 262.4' LT. TO STA. 5+25.2, 304.8' LT.
REMOVE EXISTING 24" CGMP
NEW 24" X 41' CPEP (SL), INV. IN 187.00, INV. OUT 182.12
CONSTRUCT NEW CCB (CB-6) W/TYPE D GRATE AT INLET, RIM 193.5
CONNECT TO EXISTING CB AT OUTLET (AT EXISTING INVERT ELEVATION) *

(P13) STA. 3+86.5, 196.8' LT. TO STA. 4+15.7, 216.7' LT.
NEW 12" X 36' CSP, WITH 12" X 6' RISER AT INLET (SEE NOTE 5)

(U1) STA. 0+45.7, 21.3' LT. TO STA. 2+41.2, 21.3' LT.
NEW 6" X 194' UNDERDRAIN, CONSTRUCT FLUSHING BASIN AT INLET
INV. IN = 202.33
INV. OUT = 199.20

(U2) STA. 0+45.7, 91.1' LT. TO STA. 2+41.2, 91.1' LT.
NEW 6" X 194' UNDERDRAIN, CONSTRUCT FLUSHING BASIN AT INLET
INV. IN = 201.73
INV. OUT = 198.60

BIORETENTION AREA
NEW 6" X 108' UNDERDRAIN, SEE DRAINAGE DETAIL SHEET 2 FOR DETAIL

CONSTRUCTION NOTES:

STRUCTURES CMH-1, CMH-2 & CMH-3 WILL BE PAID FOR AS ITEM 604.21: PRECAST CONCRETE MANHOLE WITH CAST IRON COVER.

STRUCTURES CCB1, 2, 4, 5, AND 6 WILL BE PAID FOR AS ITEM 604.20: PRECAST CONCRETE CATCH BASIN WITH CAST IRON GATE.

STRUCTURES DI-2 AND CB-3 ARE NOT USED.

*INCIDENTAL TO PIPE CONSTRUCTION

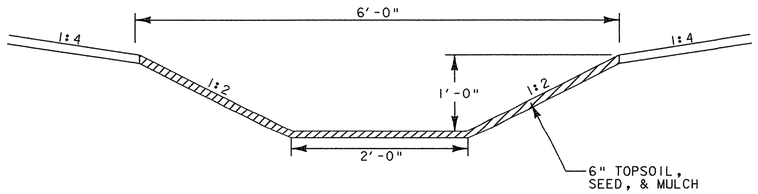
0 40 80
SCALE: 1" = 40'

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

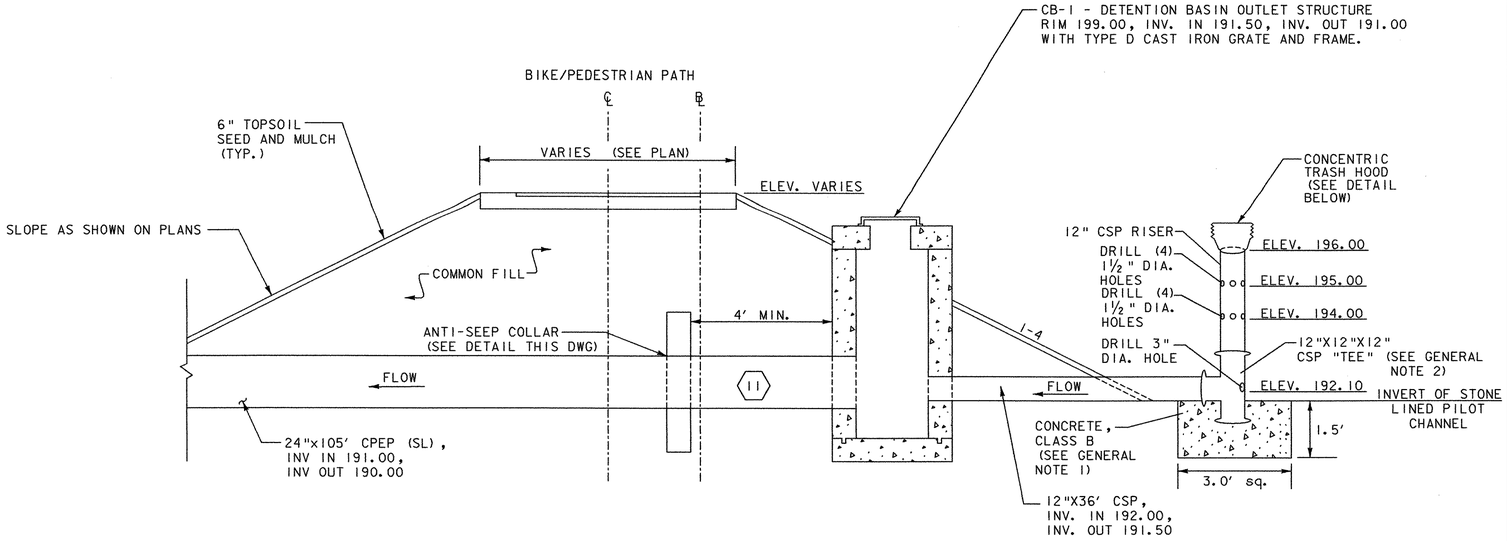
FILE NAME: ...\Plot Files\18grading.ptf
PROJECT LEADER: WLD
DESIGNED BY: SAR
PLOT DATE: 4/19/2006
DRAWN BY: MBL/SRZ
CHECKED BY: GAS

GRADING AND DRAINAGE PLAN



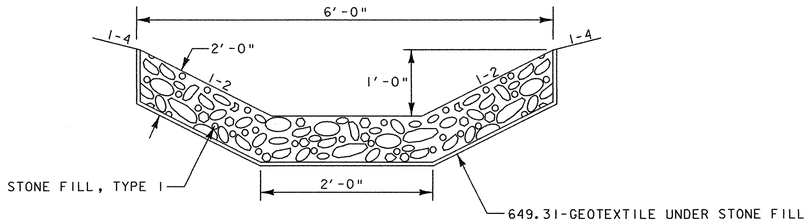
GRASS LINED TREATMENT SWALE

NOT TO SCALE



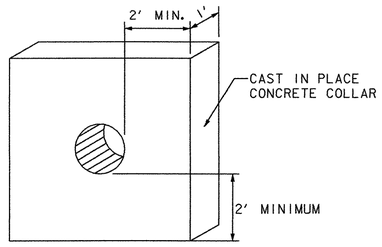
DETENTION BASIN OUTLET STRUCTURE

NOT TO SCALE



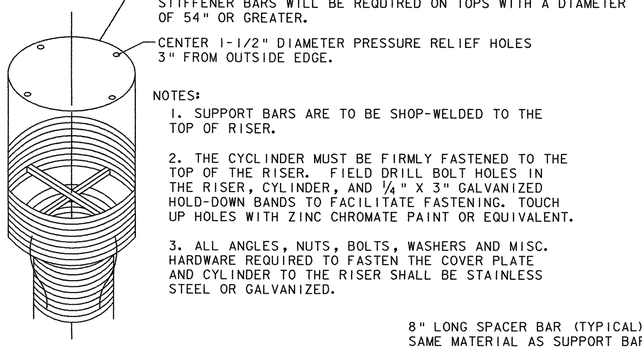
STONE LINED PILOT CHANNEL

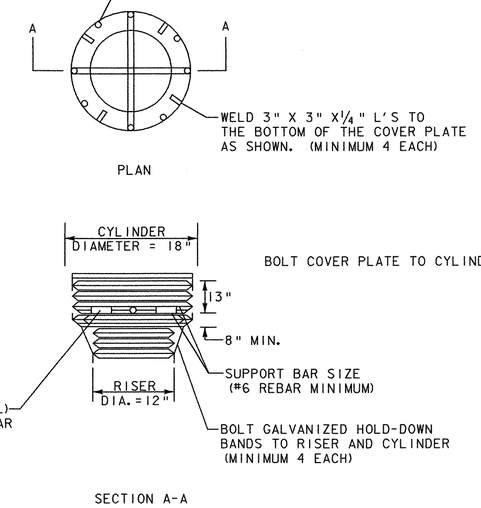
NOT TO SCALE



ANTI-SEEP COLLAR DETAIL

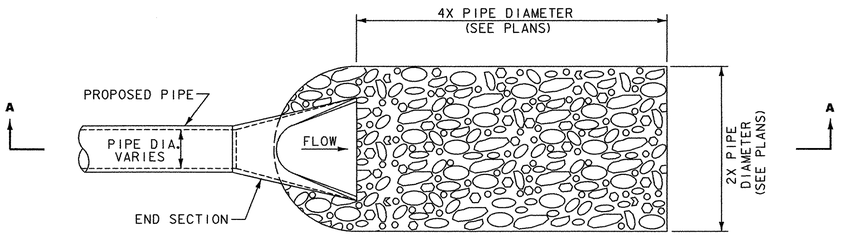
NOT TO SCALE



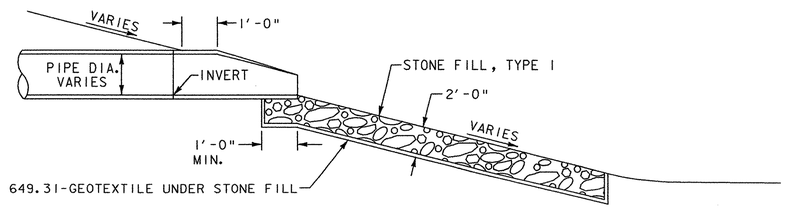


CONCENTRIC TRASH HOOD & ANTI-VORTEX DEVICE

NOT TO SCALE



PLAN



SECTION A-A

STORM DRAIN OUTLET PROTECTION

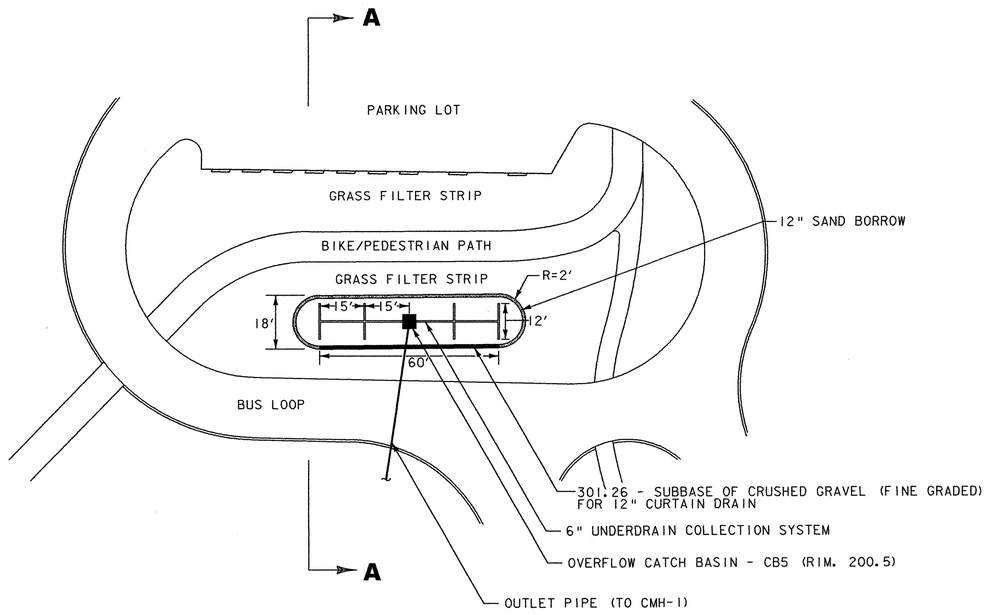
NOT TO SCALE

GENERAL NOTES:

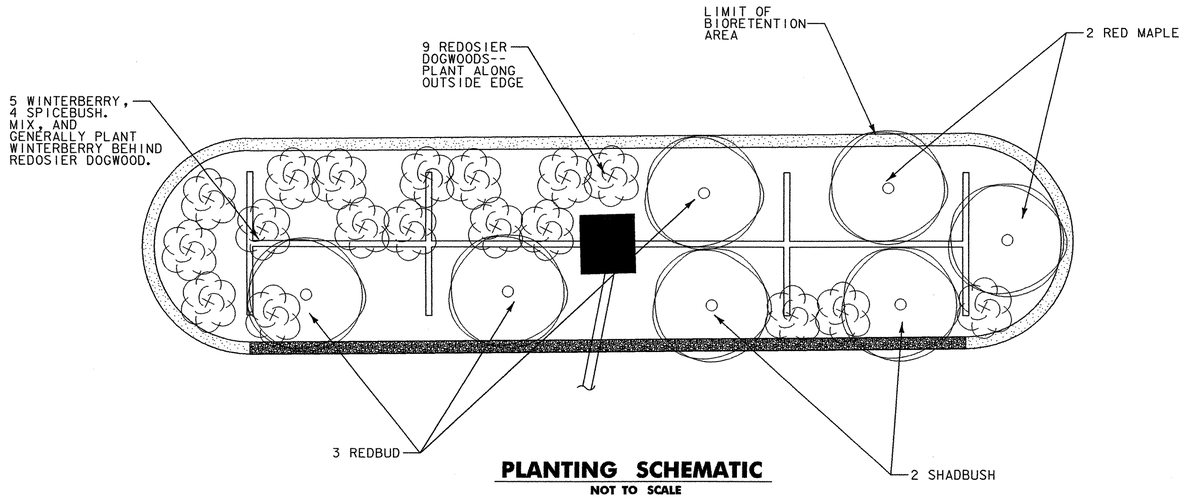
1. CONCRETE BASE PAID AT CONTRACT UNIT PRICE FOR ITEM NO. 501.25 - CONCRETE, CLASS B.
2. 1½" HOLES, TEE & MISC. WORK TO CONSTRUCT RISER IS INCLUDED IN THE CONTRACT UNIT PRICE FOR 12" CSP.
3. PROVIDE ANTI-SEEP COLLAR TO PREVENT WATER FLOW THROUGH PIPE BEDDING MATERIAL. COST TO BE PAID FOR AS CONCRETE CLASS B.
4. ANTI-SEEP COLLARS SHALL BE INSTALLED AS SHOWN TO RESIST FLOW ALONG THE OUTSIDE OF THE PIPE. COLLARS SHOULD PROTECT A MINIMUM OF 2' FROM THE PIPE. MAXIMUM SPACING OF COLLARS IS 20'.
5. WORK TO FURNISH AND CONSTRUCT CONCENTRIC TRASH HOOD & ANTI VORTEX DEVICE SHALL BE INCIDENTAL TO ITEM NO. 601.0005: 12" CSP.

DH Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\19drainagedetails1.ptf	PLOT DATE: 5/24/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: SAR	CHECKED BY: GAS
DRAINAGE DETAIL SHEET	SHEET 19 OF 65



PLAN



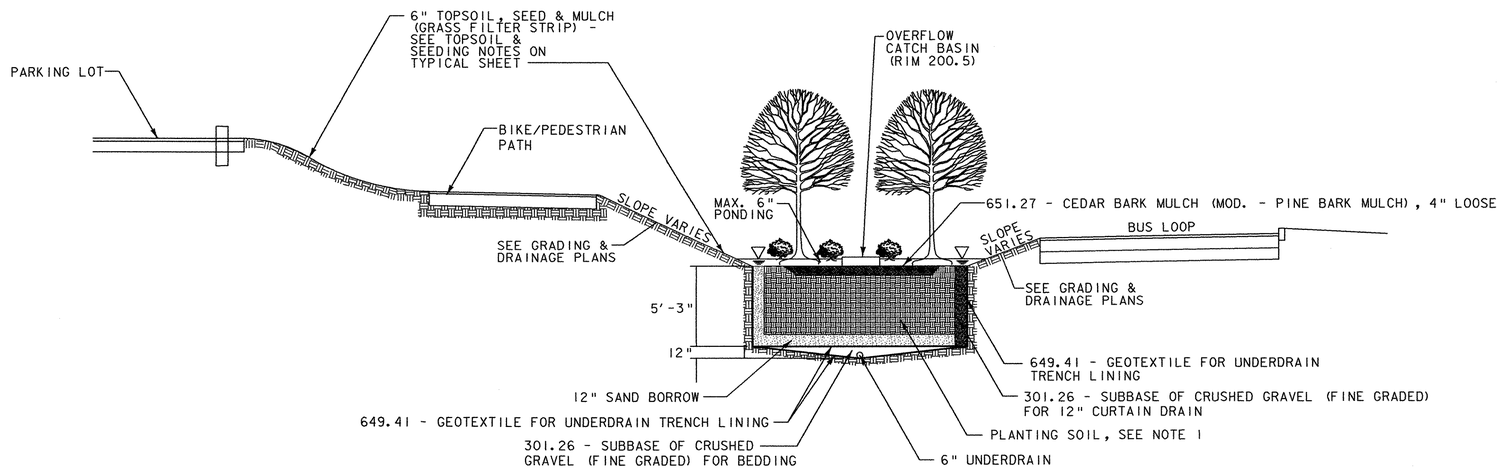
PLANTING SCHEMATIC

NOT TO SCALE

BIORETENTION AREA PLANTING SCHEDULE

QNTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES
TREES AND SHRUBS						
2		ACER RUBRUM	RED MAPLE	2 1/2 "cal.	12' O.C.	B&B
2		AMELANCHIER CANADENSIS	SHADBUSH CLUMP	1 1/2 "cal.	12' O.C.	B&B
3		CERCIS CANADENSIS	REDBUD	1 1/2 "cal.	12' O.C.	B&B
9		CORNUS SERICEA	REDOSIER DOGWOOD	3 gal.	8' O.C.	CONTAINER
4		LINDERA BENZOIN	SPICEBUSH	3 gal.	8' O.C.	CONTAINER
5		ILEX VERTICILLATA	WINTERBERRY	3 gal.	8' O.C.	CONTAINER

NOTE: REFER TO LANDSCAPING FOR TOTAL QUANTITY OF EACH ITEM.



SECTION A-A

BIORETENTION AREA

NOT TO SCALE

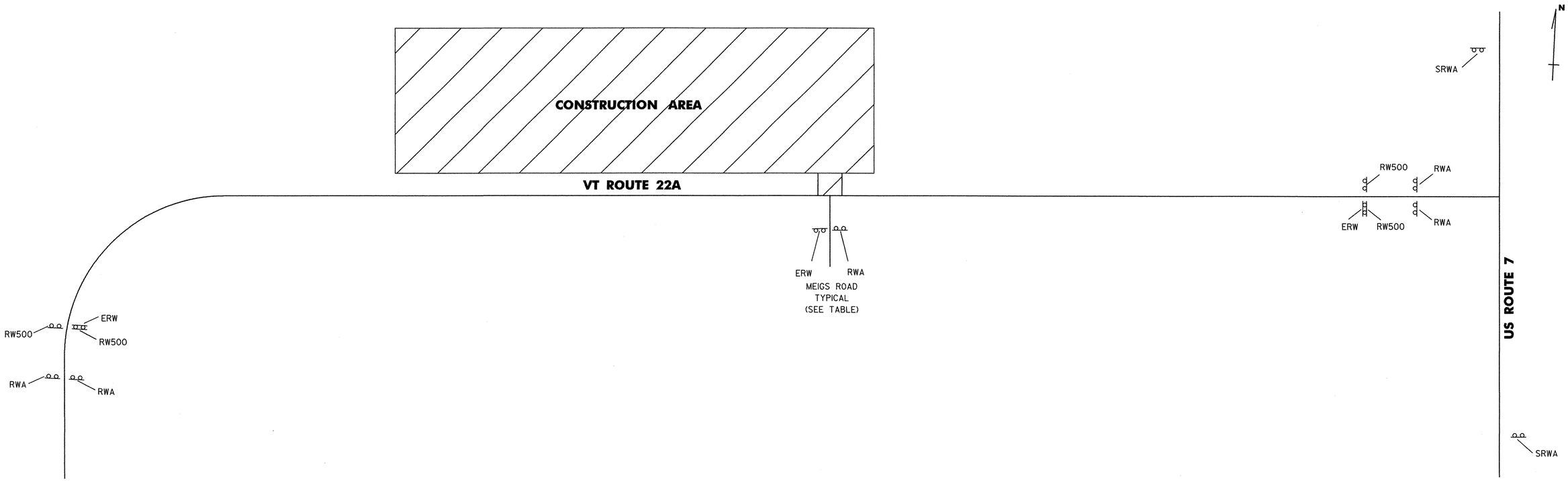
PLANTING NOTES

1. PLANTING SOIL (ITEM TO BE PAID FOR AS TOPSOIL(MOD.) SHALL BE SANDY LOAM, LOAMY SAND, OR LOAM TEXTURE WITH A CLAY CONTENT RANGING FROM 10 TO 25 PERCENT. THE SOIL SHALL HAVE AN INFILTRATION RATE GREATER THAN 0.5 INCHES PER HOUR. THE pH OF THE PLANTING SOIL SHALL BE BETWEEN 5.5 AND 6.5. THE PLANTING SOIL SHALL HAVE AN ORGANIC CONTENT OF 1.5 TO 3 PERCENT. COMPLIANCE TESTING SHALL BE PERFORMED BY THE UVM AGRICULTURAL & ENVIRONMENTAL TESTING LABORATORY OR AN APPROVED TESTING LAB. TESTING COST TO BE INCLUDED IN THE COST OF TOPSOIL(MOD.)
2. MAINTAIN 12' SPACING BETWEEN TREES AND 8' SPACING BETWEEN SHRUBS.
3. FOR PLANTING PITS, MAKE EXCAVATIONS TWICE AS WIDE AS ROOTBALL FOR BALLED AND BURLAPPED (B&B) MATERIAL, AND EQUAL TO BALL DEPTH.
4. PLACE MULCH IMMEDIATELY AFTER TREES AND SHRUBS ARE PLANTED. USE COMMERCIALLY-AVAILABLE FINE CHIPPED BARK MULCH. MULCHING TO BE PAID FOR AS 651.27 - CEDAR BARK MULCH (MOD.)
5. ALL PLANTS SHALL BE CAREFULLY AND THOROUGHLY WATERED DURING PLANTING AND AS OFTEN AS NECESSARY THEREAFTER TO PROVIDE THE BEST GROWING CONDITIONS UNTIL ACCEPTANCE OF THE WORK. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION SUPPORTING WATERING FREQUENCY TO THE ENGINEER.

DH Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\20drainagedetails2.ptf | PLOT DATE: 5/9/2006
PROJECT LEADER: WLD | DRAWN BY: MBL
DESIGNED BY: SAR | CHECKED BY: GAS
BIORETENTION DETAIL SHEET | SHEET 20 OF 65



LEGEND

ERW = END ROAD WORK
RW500 = ROAD WORK 500 FT
RWA = ROAD WORK AHEAD
RWN = ROAD WORK NEXT XX MILES
SRW500 = SIDE ROAD WORK 500 FT
SRWA = SIDE ROAD WORK AHEAD

LOCATION	ERW	RW500	RWA	RWN	SRW500	SRWA
VT ROUTE 22A						
BEGIN PROJECT	1	2	2			
MEIGS ROAD	1		1			
END PROJECT	1	2	2			
TOTALS	3	4	5			

CONSTRUCTION APPROACH SIGNING

NOTES:

1. SEE VTrans STANDARDS E-100, E-100A, E-101, E-102, E-102A, E-106, E-107, E-108 FOR SIGN PLACEMENT.
2. SEE VTrans STANDARD E-119 FOR UTILITY WORK ZONE SIGNAGE.
3. WORK ZONE SIGNS SHALL NOT OBSCURE EXISTING TRAFFIC CONTROL DEVICES.
4. ALL DIAMOND SHAPED SIGNS SHOULD BE 48" AND INSTALLED ON TWO POSTS EACH.
5. ALL CONSTRUCTION SIGNS SHALL BE NEW OR IN LIKE-NEW CONDITION.

DH Dufresne-Henry

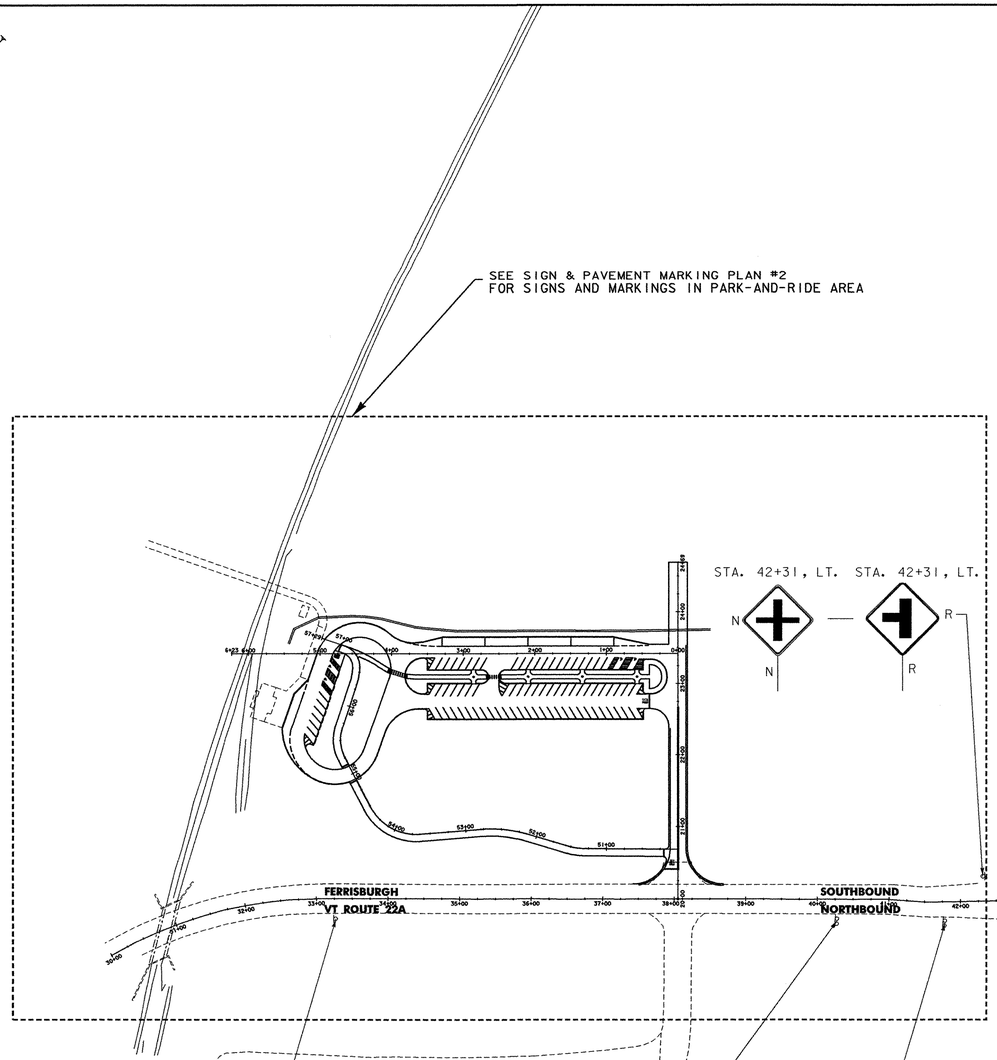
PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\21constapproach.pltPLOT DATE: 4/19/2006
PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: CSP/GGG CHECKED BY: GAS
CONSTRUCTION APPROACH SIGNING SHEET 21 OF 65

N

VT STATE PLANE GRID

SEE SIGN & PAVEMENT MARKING PLAN #2
FOR SIGNS AND MARKINGS IN PARK-AND-RIDE AREA



STA. 42+31, LT. STA. 42+31, LT.
N R
N R

STA. 33+27, RT. STA. 33+27, RT.
N R
N R

STA. 40+28, RT.
RET. ← FERRISBURGH 2
RET. ← BURLINGTON 22
RET. NEW HAVEN JCT 5 →
RET. MIDDLEBURY 13 →
RET. RET.

STA. 41+78, RT.
RET.
RET. 0221 0103 0020
RET.

STA. 43+28, RT.
RET. ONLY ONLY
RET.

STA. 45+13, RT.
RET. NORTH SOUTH RET.
RET. 7 7 RET.
RET. RET.

REMOVING SIGNS
AS SHOWN - 9

ERECTING SALVAGED SIGNS
AS SHOWN - 7

RET.
RET. RET.

RET. SOUTH SOUTH RET.
RET. 7 VERMONT 22A RET.
RET. RET.
RET. RET.

NEW HAVEN JCT 5 R&S
MIDDLEBURY 13 R&S
VERGENNES 1 R&S
TO N.Y. STATE R&S
R R

NEW HAVEN JCT 5 S
MIDDLEBURY 13 S
VERGENNES 1 S
TO N.Y. STATE S
N PARK & RIDE
N
N N

RET. ONLY
RET. RET.

STA. 44+34, LT.
RET. YIELD RET.
RET.

RET. EXIT 30 M.P.H. RET.
RET.

STA. 43+30, LT.
SPEED LIMIT 30 RET.
RET.

RET.
RET.

RET. SOUTH NORTH RET.
RET. VERMONT 22A 7 RET.
RET. RET.
RET. RET.

RET. ONLY
RET.

RET. SOUTH NORTH RET.
RET. VERMONT 22A 7 RET.
RET. RET.
RET. RET.

FERRISBURGH 2 S
BURLINGTON 22 S
VERGENNES 1 S
N PARK & RIDE
N
N N

FERRISBURGH 2 R&S
BURLINGTON 22 R&S
VERGENNES 1 R&S
R R

FERRISBURGH
U.S. ROUTE 7
SOUTHBOUND
NORTHBOUND

SIGN LEGEND

N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE SIGN
RET	= RETAIN
B-B	= BACK TO BACK

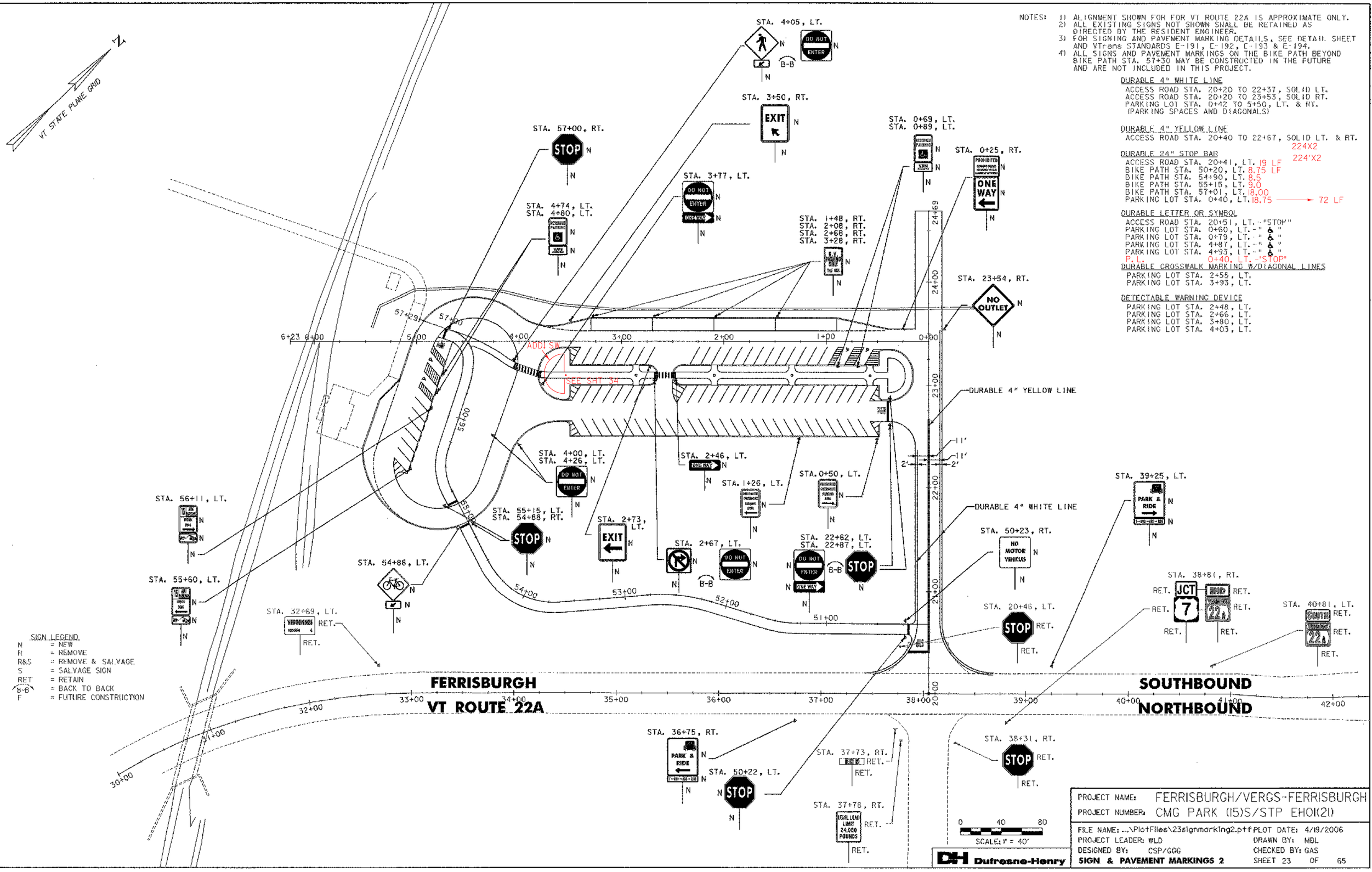
NOTES:
1) SURVEY FOR U.S. ROUTE 7 NOT EXACT
2) APPROXIMATE ALIGNMENT ADDED FOR VT ROUTE 22A
3) ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED AS DIRECTED BY THE RESIDENT ENGINEER
4) FOR SIGNING AND PAVEMENT MARKING DETAILS, SEE DETAIL SHEET AND VTrans STANDARDS E-191, E-192, E-193, E-194.

0 100 200
SCALE: 1" = 100'

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\22signmarkingl.ptf PLOT DATE: 4/19/2006
PROJECT LEADER: WLD DRAWN BY: MBL/SRZ
DESIGNED BY: CSP/GGG CHECKED BY: GAS
SIGNS & PAVEMENT MARKINGS 1 SHEET 22 OF 65

Dufresne-Henry



NOTES:
1) ALIGNMENT SHOWN FOR FOR VT ROUTE 22A IS APPROXIMATE ONLY.
2) ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED AS DIRECTED BY THE RESIDENT ENGINEER.
3) FOR SIGNING AND PAVEMENT MARKING DETAILS, SEE DETAIL SHEET AND VTrans STANDARDS E-191, E-192, E-193 & E-194.
4) ALL SIGNS AND PAVEMENT MARKINGS ON THE BIKE PATH BEYOND BIKE PATH STA. 57+30 MAY BE CONSTRUCTED IN THE FUTURE AND ARE NOT INCLUDED IN THIS PROJECT.

DURABLE 4" WHITE LINE
ACCESS ROAD STA. 20+20 TO 22+37, SOLID LT.
ACCESS ROAD STA. 20+20 TO 23+53, SOLID RT.
PARKING LOT STA. 0+42 TO 5+50, LT. & RT.
(PARKING SPACES AND DIAGONALS)

DURABLE 4" YELLOW LINE
ACCESS ROAD STA. 20+40 TO 22+67, SOLID LT. & RT.

DURABLE 24" STOP BAR
ACCESS ROAD STA. 20+41, LT. 19 LF (224X2)
BIKE PATH STA. 50+20, LT. 8.75 LF (224'X2)
BIKE PATH STA. 54+90, LT. 8.5
BIKE PATH STA. 55+15, LT. 9.0
BIKE PATH STA. 57+01, LT. 18.00
PARKING LOT STA. 0+40, LT. 18.75 → 72 LF

DURABLE LETTER OR SYMBOL
ACCESS ROAD STA. 20+51, LT. - "STOP"
PARKING LOT STA. 0+60, LT. - "♿"
PARKING LOT STA. 0+79, LT. - "♿"
PARKING LOT STA. 4+87, LT. - "♿"
PARKING LOT STA. 4+93, LT. - "♿"
P.L. 0+40, LT. - "STOP"

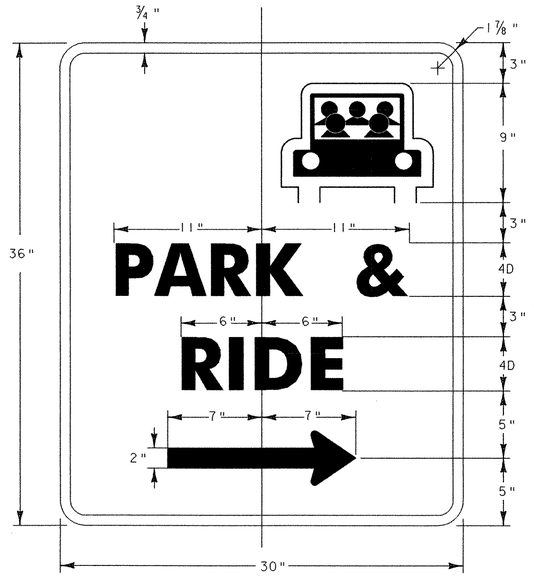
DURABLE CROSSWALK MARKING W/DIAGONAL LINES
PARKING LOT STA. 2+55, LT.
PARKING LOT STA. 3+93, LT.

DETECTABLE WARNING DEVICE
PARKING LOT STA. 2+48, LT.
PARKING LOT STA. 2+66, LT.
PARKING LOT STA. 3+80, LT.
PARKING LOT STA. 4+03, LT.

SIGN LEGEND
N = NEW
R = REMOVE
R&S = REMOVE & SALVAGE
S = SALVAGE SIGN
RET = RETAIN
B-B = BACK TO BACK
F = FUTURE CONSTRUCTION

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\23signmarking2.plt	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
SIGN & PAVEMENT MARKINGS 2	SHEET 23 OF 65

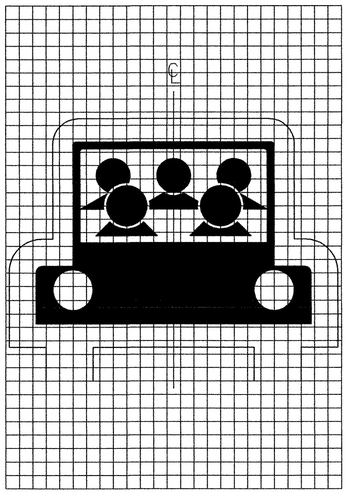
Dufresne-Henry



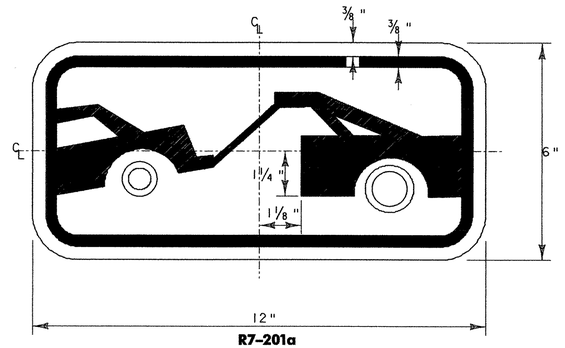
D4–2
WHITE (REFL.) LEGEND, ARROW & BORDER
WHITE & GREEN SYMBOL
GREEN (REFL.) BACKGROUND
SEE VTrans STANDARD E-131 FOR MATERIALS
SEE VTrans STANDARD E-144 FOR ARROWHEAD DETAIL

LOCATIONS

U.S. ROUTE 7, NORTH OF INTERSECTION. (RIGHT ARROW)
U.S. ROUTE 7, SOUTH OF INTERSECTION. (LEFT ARROW)



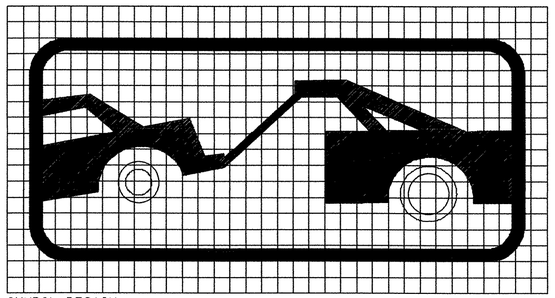
SYMBOL DESIGN



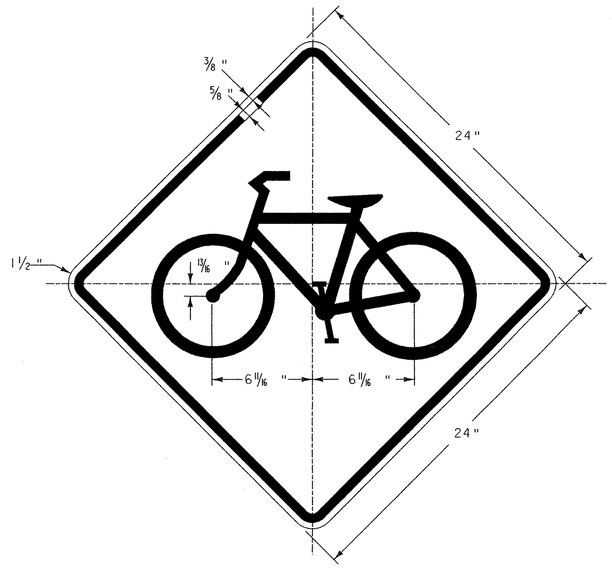
R7–201a
BLACK BORDER & SYMBOL
WITH WHITE REFLECTORIZED BACKGROUND
SEE VTrans STANDARD E-142 FOR MATERIALS

LOCATIONS

STA. 1+26, LT.
STA. 55+60, LT.
STA. 56+11, LT.



SYMBOL DESIGN



W11–1

BLACK BORDER & SYMBOL
WITH REFLECTORIZED YELLOW BACKGROUND
SEE VTrans STANDARD E-154 FOR MATERIALS

LOCATIONS

BIKE/PED PATH STA. 54+88, LT.

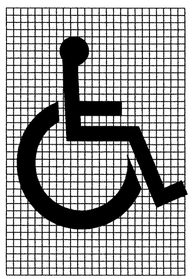


R7–8
GREEN LEGEND, ARROW & BORDER
WHITE SYMBOL ON BLUE BACKGROUND
WHITE (REFL.) BACKGROUND
SEE VTrans STANDARD E-143 FOR MATERIALS

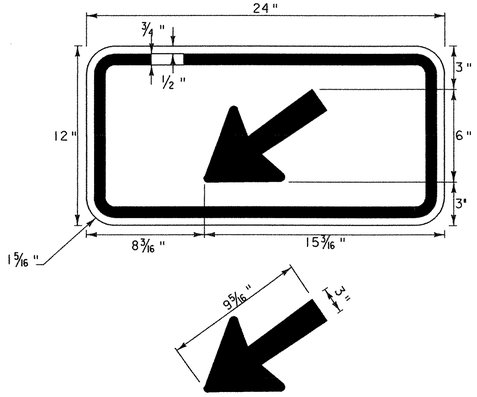
LOCATIONS:

PARKING LOT STA. 0+69, LT.
PARKING LOT STA. 0+89, LT.
PARKING LOT STA. 4+74, LT.
PARKING LOT STA. 4+80, LT.

*REDUCE SPACING 50%
**SEE SYMBOL DESIGN



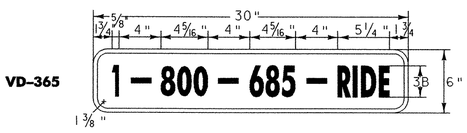
SYMBOL DESIGN



W16–7P
BLACK BORDER & SYMBOL
WITH REFLECTORIZED YELLOW BACKGROUND
SEE VTrans STANDARD E-153 FOR MATERIALS
SEE VTrans STANDARD E-151 FOR ARROWHEAD DETAILS

LOCATIONS

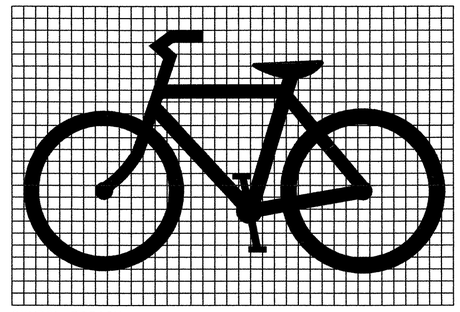
PARKING LOT STA. 4+05, LT.
PARKING LOT STA. 4+92, RT.
BIKE/PED PATH STA. 54+88, LT.



WHITE (REFL.) LEGEND, ARROW & BORDER
GREEN (REFL.) BACKGROUND
SEE VTrans STANDARD E-131 FOR MATERIALS

LOCATIONS

U.S. ROUTE 7, NORTH OF INTERSECTION.
U.S. ROUTE 7, SOUTH OF INTERSECTION.



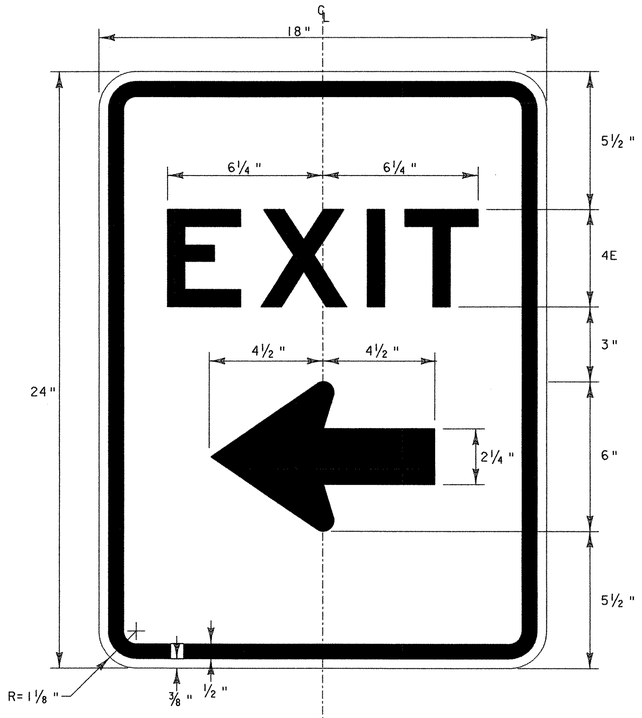
SYMBOL DESIGN

SIGN DETAILS

NOT TO SCALE

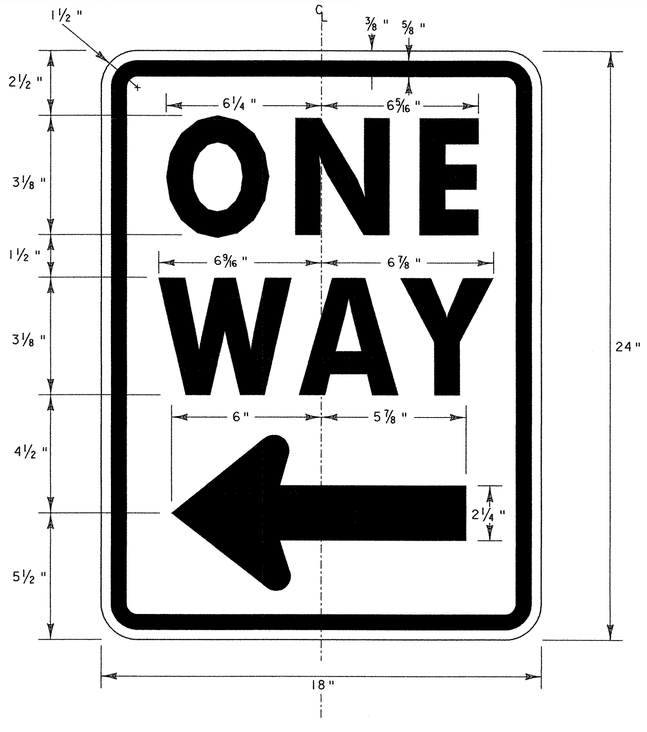
DH Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EHOI(21)
FILE NAME: ...\PlotFiles\24signdetails1.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
TRAFFIC SIGN DETAILS SHEET 1	SHEET 24 OF 65



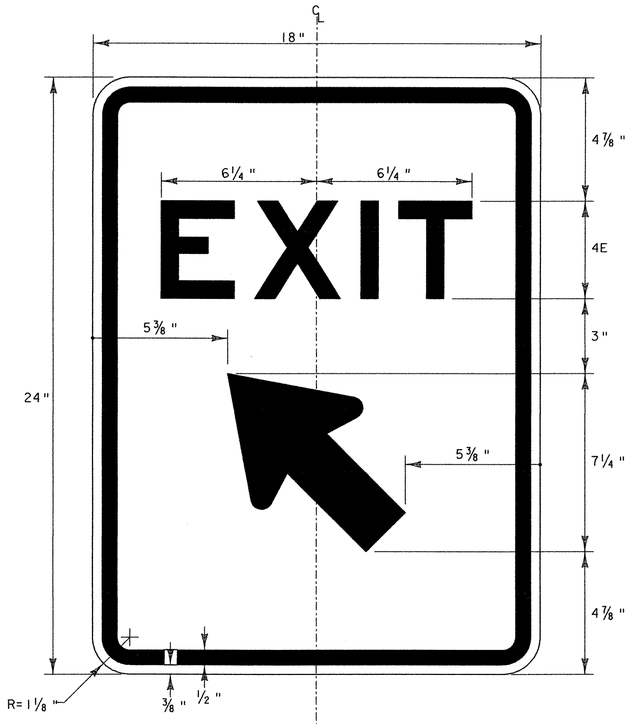
BLACK BORDER, TEXT & SYMBOL
WITH WHITE REFLECTORIZED BACKGROUND
SEE VTrans STANDARD E-142 FOR MATERIALS

LOCATIONS
STA. 2+73, LT.



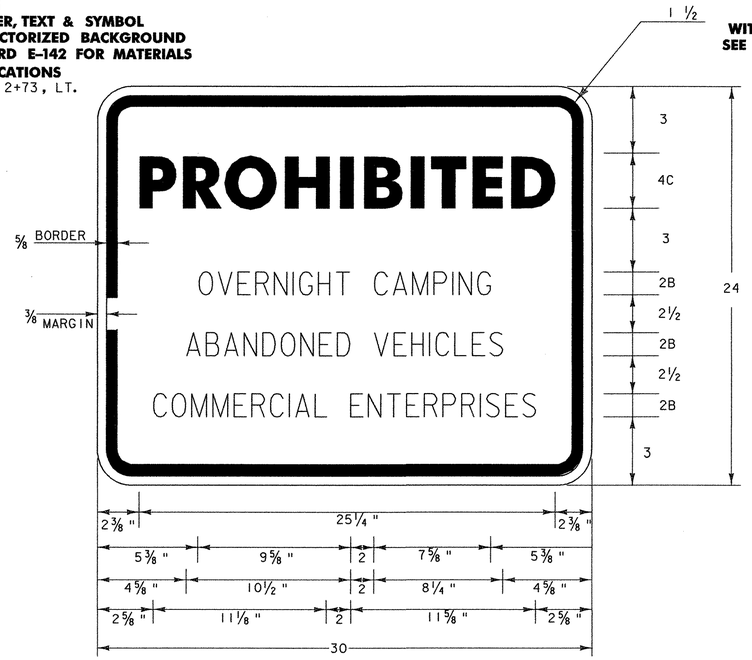
BLACK BORDER, TEXT & SYMBOL
WITH WHITE REFLECTORIZED BACKGROUND
SEE VTrans STANDARD E-142 FOR MATERIALS

LOCATIONS
STA. 0+25, RT.



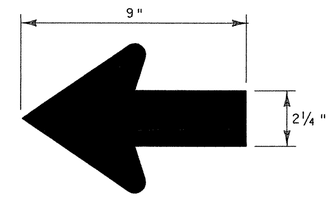
BLACK BORDER, TEXT & SYMBOL
WITH WHITE REFLECTORIZED BACKGROUND
SEE VTrans STANDARD E-142 FOR MATERIALS

LOCATIONS
STA. 3+50, RT.



BLACK BORDER, TEXT & SYMBOL
WITH WHITE REFLECTORIZED BACKGROUND
SEE VTrans STANDARD E-142 FOR MATERIALS

LOCATIONS
STA. 0+25, RT.

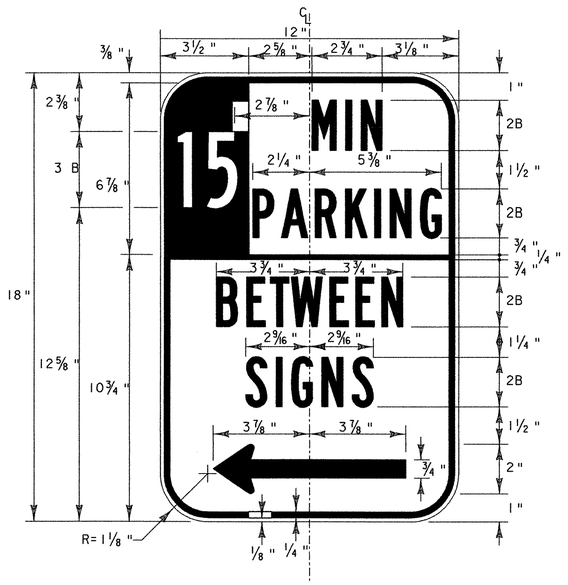


ARROWHEAD FOR REGULATORY SIGNS
SEE VTrans STANDARD E-144 FOR ARROWHEAD DETAILS

LOCATIONS
STA. 3+50, RT.

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\25signdetails2.p+f	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
TRAFFIC SIGN DETAILS SHEET 2	SHEET 25 OF 65

DH Dufresne-Henry



GREEN BORDER, TEXT & SYMBOL
WITH WHITE REFLECTORIZED BACKGROUND
SEE VTrans STANDARD E-144 FOR MATERIALS

LOCATIONS
STA. 55+60, LT.



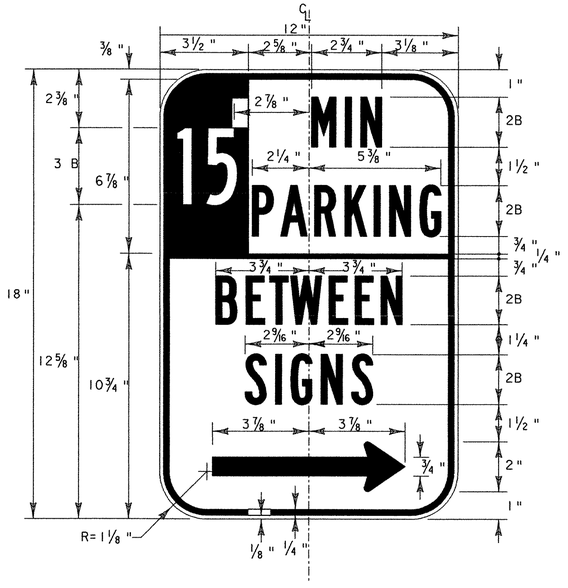
RED BORDER & TEXT
WITH REFLECTORIZED WHITE BACKGROUND
SEE VTrans STANDARD E-143 FOR MATERIALS

LOCATIONS
STA. 1+48, RT.
STA. 2+08, RT.
STA. 2+68, RT.
STA. 3+28, RT.



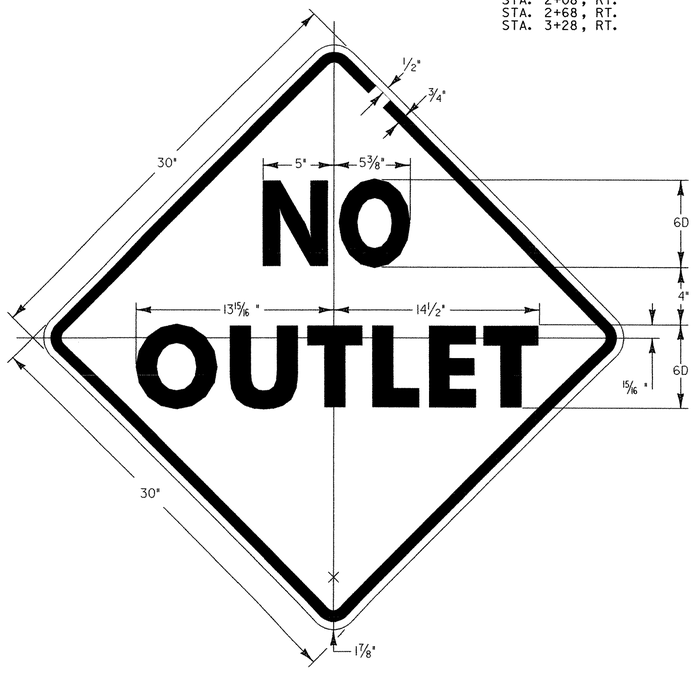
GREEN LEGEND AND BORDER
WITH WHITE (REFL.) BACKGROUND
SEE VTrans STANDARD E-143 FOR MATERIALS

LOCATIONS:
STA. 1+26, LT.



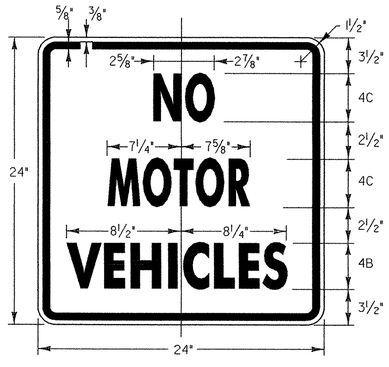
GREEN BORDER, TEXT & SYMBOL
WITH WHITE REFLECTORIZED BACKGROUND
SEE VTrans STANDARD E-144 FOR MATERIALS

LOCATIONS
STA. 56+11, LT.



BLACK BORDER, TEXT & SYMBOL
WITH YELLOW REFLECTORIZED BACKGROUND
LOCATIONS
STA. 23+54, RT.

W14-2



R5-3

BLACK BORDER, TEXT & SYMBOL
WITH WHITE REFLECTORIZED BACKGROUND
LOCATIONS
STA. 50+23, RT.



GREEN LEGEND AND BORDER
WITH WHITE (REFL.) BACKGROUND
SEE VTrans STANDARD E-143 FOR MATERIALS

LOCATIONS:
STA. 1+26, LT.

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\26signdetails3.ptf PLOT DATE: 4/19/2006
PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: CSP/GGG CHECKED BY: GAS
TRAFFIC SIGN DETAILS SHEET 3 SHEET 26 OF 65

DH Dufresne-Henry

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	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 (1.88)	2.0 (2.16)	2.5 (3.35)	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 (1.3)	4.0 (1.7)	4.0 MOD (1.7)	TUBULAR STEEL Ø (in) FOUNDATION	3.0 (7.6)	3.5 (9.0)	4.0 (10.8)	5.0 (14.6)	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												OPTION ITEMS																								
ACCESS ROAD 22+62, LT.	STOP	1	30	30	6.3						1			X			X																R1-1: "STOP" SIGN TO BE INSTALLED ON OPPOSITE SIDE OF "DO NOT ENTER" AND "ONE WAY" SIGNS.		E-143
22+87, LT.	STOP	1	30	30	6.3						1			X			X																R1-1: "STOP" SIGN TO BE INSTALLED ON OPPOSITE SIDE OF "DO NOT ENTER" AND "ONE WAY" SIGNS.		E-143
22+62, LT.	DO NOT ENTER ONE WAY	1 1	30 36	30 12	6.3 3.0						1			X			X																R5-1/R6-1R: "ONE-WAY" SIGNS TO BE INSTALLED BELOW THE "DO NOT ENTER" SIGN USING THE MOUNTING BRACKET AS DETAILED ON VTrans STANDARD E-160, MOUNTED ON A NEW POST.		E-143 E-142
22+87, LT.	DO NOT ENTER ONE WAY	1 1	30 36	30 12	6.3 3.0						1			X			X																R5-1/R6-1R "ONE-WAY" SIGNS TO BE INSTALLED BELOW THE "DO NOT ENTER" SIGN USING THE MOUNTING BRACKET AS DETAILED ON VTrans STANDARD E-160, MOUNTED ON A NEW POST.		E-143 E-142
23+54, RT.	NO OUTLET	1	30	30	9.0						1			X			X																	26	
BIKE/PED. PATH 50+22, LT.	STOP	1	18	18	2.3						1			X			X																R1-1		E-143
50+23, RT.	NO MOTOR VEHICLES	1	24	24	4.0						1			X			X																	26	
54+88, RT.	STOP	1	18	18	2.3						1			X			X																R1-1		E-143
55+15, LT.	STOP	1	18	18	2.3						1			X			X																R1-1		E-143
54+88, LT.	 	1 1	24 24	24 12	4.0 2.0						1			X			X																	24 24	
55+60, LT.	 	1 1	12 12	18 6	1.5 0.5						1			X			X																	26 24	
												FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB								
	TOTALS		SF 59.1		SF		EA.		SF			FT 165			FT 165					LB			EA.	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."

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\Plotfiles\27signsummary1.ptf PLOT DATE: 5/9/2006
PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: CSP/GGG CHECKED BY: GAS
TRAFFIC SIGN SUMMARY SHEET 1 SHEET 27 OF 65

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) lb/ft 1.75 1.88	2.0 2.16	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												OPTION ITEMS																									
BIKE/PED. PATH (CONT.)																																			
56+11, LT.	15' MIN. SPACING BETWEEN SIGNS	1	12	18	1.5						1			X			X																		26	
		1	12	6	0.5																														24	
57+00, RT.	STOP	1	18	18	2.3						1			X			X																	R1-1		E-143
PARKING LOT																																			
0+25, RT.	PROHIBITED OVERNIGHT CAMPERS UNINVITED VEHICLES COMMERCIAL ENTERPRISES	1	30	24	5.0						1			X			X																		25	
	ONE WAY	1	18	24	3.0																														25	
0+50, LT.	DESIGNATED OVERNIGHT PARKING AREA	1	12	18	1.5						1			X			X																		26	
0+69, LT.	RESERVED PARKING	1	12	18	1.5						1			X			X																		24	
	VAN ACCESSIBLE	1	12	6	0.5																															E-132
0+89, LT.	RESERVED PARKING	1	12	18	1.5						1			X			X																		24	
	VAN ACCESSIBLE	1	12	6	0.5																															E-132
1+26, LT.	DESIGNATED OVERNIGHT PARKING AREA	1	12	18	1.5						1			X			X																		26	
1+48, RT.	R.V. PARKING ONLY THIS SIDE	1	12	18	1.5						1			X			X																		26	
2+08, RT.	R.V. PARKING ONLY THIS SIDE	1	12	18	1.5						1			X			X																		26	
2+46, LT.	ONE WAY	1	36	12	3.0						1			X			X																	R6-1R		E-142
2+67, LT.	DO NOT ENTER	1	24	24	4.0						1			X			X																	R3-1/R5-1: MOUNT SIGNS BACK-TO-BACK.		E-143
		1	30	30	6.3																															E-143
												FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB								
TOTALS			SF 35.6	SF	EA.	SF						FT 165			FT 165					LB			EA.	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."

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\28signsummary2.pttPLOT DATE: 5/9/2006
PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: CSP/GGG CHECKED BY: GAS
TRAFFIC SIGN SUMMARY SHEET 2 SHEET 28 OF 65

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) lb/ft 1.75 1.88	2.0 2.16	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN REFLECTOR REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												OPTION ITEMS																									
PARKING LOT (CONT.) 2+68, RT.		1	12	18	1.5						1			X			X																		
2+73, LT.		1	18	24	3.0						1			X			X																		
3+28, RT.		1	12	18	1.5						1			X			X																		
3+50, RT.		1	18	24	3.0						1			X			X																		
3+77, LT.	 	1 1	30 36	30 12	6.3 3.0						1			X			X																	R5-1/R6-1R: "ONE-WAY" SIGN TO BE INSTALLED BELOW THE "DO NOT ENTER" SIGN USING THE MOUNTING BRACKET AS DETAILED ON VTrans STANDARD E-160, MOUNTED ON A NEW POST.		E-143 E-142
4+00, LT.		1	30	30	6.3						1			X			X																	R5-1		E-143
4+05, LT.		1 1	24 30	24 30	4.0 6.3						1			X			X																	W11-2/R5-1: MOUNT SIGNS BACK-TO-BACK		E-143
4+26, LT.		1	30	30	6.3						1			X			X																	R5-1		E-143
4+74, LT.	 	1 1	12 12	18 6	1.5 0.5						1			X			X																	R7-8A	24	E-132
4+80, LT.	 	1 1	12 12	18 6	1.5 0.5						1			X			X																	R7-8A	24	E-132
					FT	FT	FT	FT	FT	FT		EA	LB	LB	LB					LB	LB	LB	LB												
TOTALS		SF 45.2	SF	EA.	SF		FT 150		FT 150				LB			EA.	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."

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\Plot Files\29signsummary3.ptf PLOT DATE: 5/9/2006
PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: CSP/GGG CHECKED BY: GAS
TRAFFIC SIGN SUMMARY SHEET 3 SHEET 29 OF 65

Dufresne-Henry

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) lb/ft 1.75 1.88	2.0 2.16	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												OPTION ITEMS																									
U.S. ROUTE 7 SEE REMARKS	NEW HAVEN JCT 5 / MIDDLEBURY 13 / VERGENNES 1 / TO N.Y. STATE						X																										ATTACH SALVAGED DESTINATION BOARDS TO NEW POSTS. PLACE NEW SIGNS ON LEFT POST UNDER SALVAGED SIGNS.		
	PARK & RIDE I-89 - 65 - 106	1	30	36	7.5						2			X			X																		24	
		1	30	6	1.3																															24	
SEE REMARKS	FERRISBURGH 2 / BURLINGTON 22 / 1 VERGENNES						X																										ATTACH SALVAGED DESTINATION BOARDS TO NEW POSTS. PLACE NEW SIGNS ON LEFT POST UNDER SALVAGED SIGNS.		
	PARK & RIDE I-89 - 65 - 106	1	30	36	7.5						2			X			X																		24	
		1	30	6	1.3																															24	
VT ROUTE 22A 33+27, RT.		1	30	30	6.3						1			X			X																	W2-1		E-155
36+75, RT.	PARK & RIDE I-89 - 65 - 106	1	30	36	7.5						1			X			X																		24	
		1	30	6	1.3																															24	
39+25, LT.	PARK & RIDE I-89 - 65 - 106	1	30	36	7.5						1			X			X																		24	
		1	30	6	1.3																															24	
42+31, LT.		1	30	30	6.3						1			X			X																	W2-1		E-155
												FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB								
TOTALS					SF 47.8	SF	EA. 7	SF				FT 120			FT 120					LB			EA.	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."

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\Plotfiles\30signsummary4.pltPLOT DATE: 5/9/2006
PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: CSP/GGG CHECKED BY: GAS
TRAFFIC SIGN SUMMARY SHEET 4 SHEET 30 OF 65

Dufresne-Henry

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	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	FOUNDATION	TUBULAR STEEL Ø (in) 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 FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
														OPTION ITEMS																							
	SIGN SUMMARY SHEET #1				59.1									165			165																			
	SIGN SUMMARY SHEET #2				35.6									165			165																			
	SIGN SUMMARY SHEET #3				45.2									150			150																			
	SIGN SUMMARY SHEET #4				47.8		7							120			120																			
	SUBTOTALS				187.7		0							600			600																			
	ROUNDING				7.3		7							15			15																			

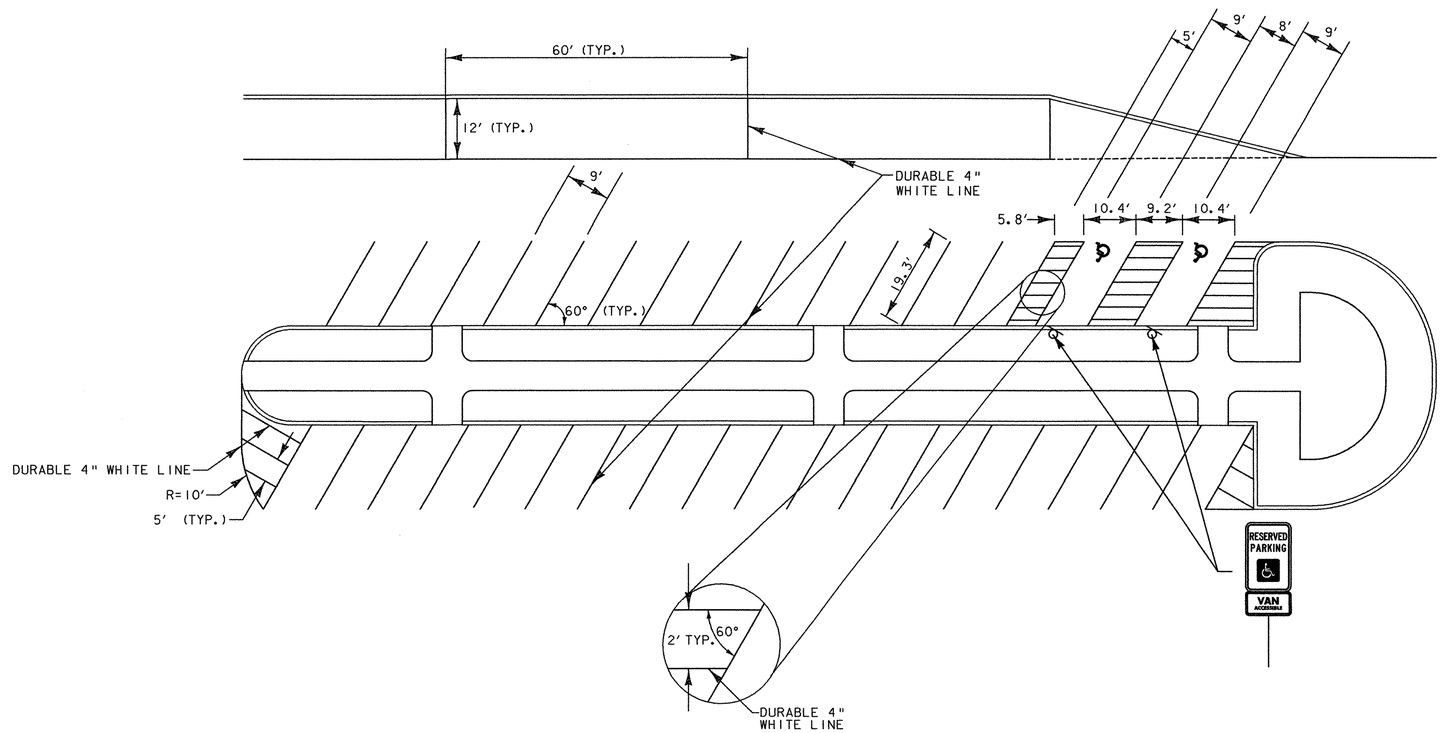
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

									FT	FT	FT 615	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB											
TOTALS	SF 195	SF	EA. 7	SF		FT 615			FT 615			LB			EA.	LB				EA.	EA.	LB														

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\3lsignsummary5.pltf PLOT DATE: 4/19/2006
PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: CSP/GGG CHECKED BY: GAS
TRAFFIC SIGN SUMMARY SHEET 5 SHEET 31 OF 65

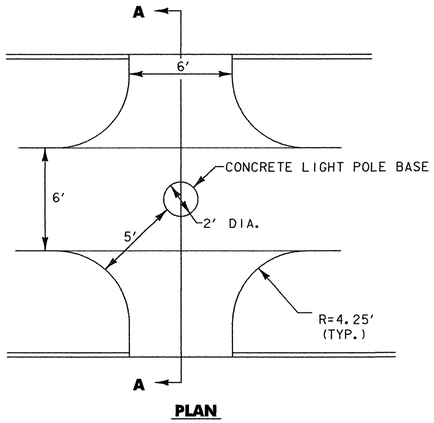


TYPICAL PARKING STALL ARRANGEMENT

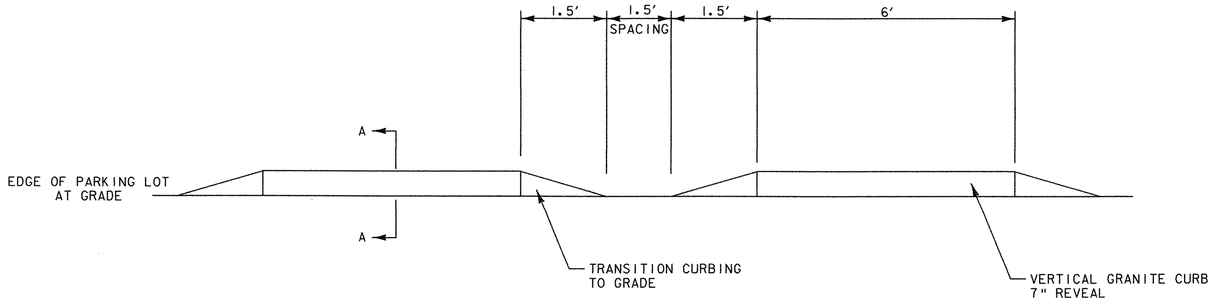
N.T.S.

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\32markingdetails.pt	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
PAVEMENT MARKING DETAILS	SHEET 32 OF 65

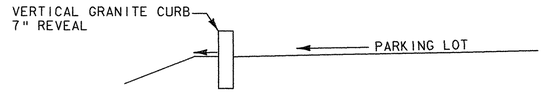
Dufresne-Henry



PLAN



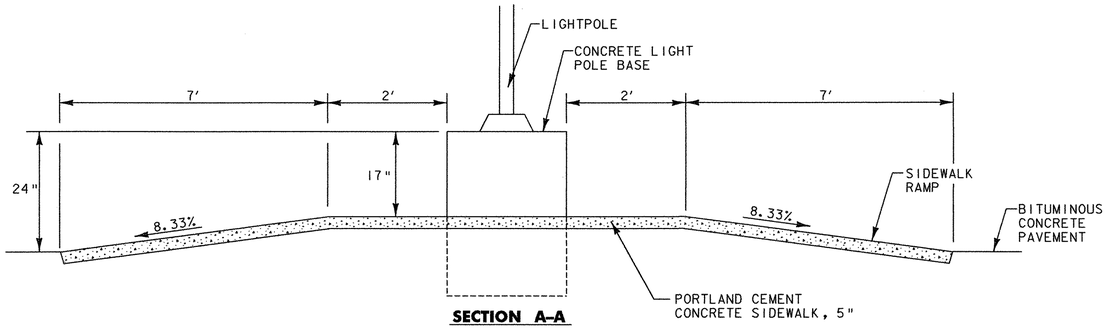
ELEVATION
NOT TO SCALE



SECTION A-A
NOT TO SCALE

NOTE: VERTICAL GRANITE BUMPER GUARD, INCLUDING TRANSITION CURBING, PAID FOR AS ITEM 616.21: VERTICAL GRANITE CURB

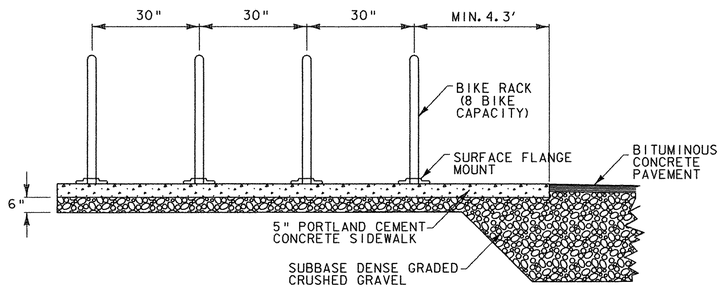
VERTICAL GRANITE BUMPER GUARD
NOT TO SCALE



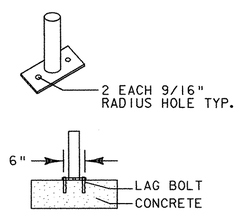
SECTION A-A

ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE W/ VTrans STANDARD C-3A & C-3B, RAMPS THAT ORIGINATE AT A CROSSWALK SHALL HAVE A DETECTABLE WARNING SURFACE

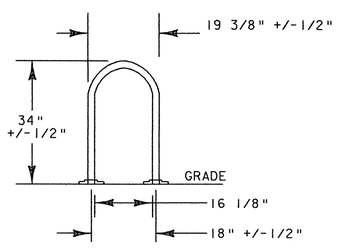
SIDEWALK DETAIL AT LIGHT POLES
NOT TO SCALE



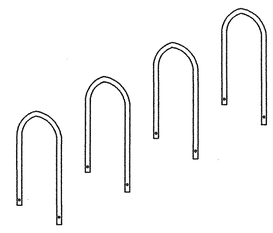
BIKE RACK DETAIL



SURFACE FLANGE MOUNT (SF)



ELEVATION VIEW



SIDE VIEW

BIKE RACK CONSTRUCTION NOTES:

1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.
3. BIKE RACK COLOR SHALL BE BLACK.

"U" BIKE RACK DETAIL
NOT TO SCALE

DH Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\33miscdetails.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
MISCELLANEOUS DETAILS	SHEET 33 OF 65

JUNCTION BOX

3+23 STA. ~~2+26.0~~, RT.
3+33 STA. ~~2+29.7~~, RT.
4+92 STA. ~~4+72.4~~, RT.
4+96 STA. ~~4+77.3~~, RT.
23+10 STA. ~~23+50.0~~, RT.
0+79 STA. ~~23+72.9~~, RT.
0+89 STA. ~~23+74.8~~, RT.
STA. 0+14.32, LT.
STA. 3+55.100, LT.

JUNCTION BOX (MOD.)

~~STA. 2+33.6, RT. - SECTOR CABINET~~
~~STA. 4+83.4, RT. - SINGLE PHASE TRANSFORMER~~
~~STA. 23+95.0, RT. - SECTOR CABINET~~
~~STA. 23+95.0, RT. - TERMINAL BOX~~
SINGLE PHASE PWR. REMOVED FROM SCOPE OF WORK

ELECTRICAL CONDUIT SLEEVE

STA. 23+51.1, RT. - STA. 0+57.3, LT.
STA. 23+75.0, RT. - STA. 23+75.0, LT.
STA. 2+48.6, LT. - STA. 2+65.9, LT.
STA. 3+63.9, LT. - STA. 3+65.1, LT.

VT STATE PLANE GRID

SITE LIGHTING SCHEDULE

TYPE	QUANTITY PER POLE	MANUFACTURER	CATALOG NO.	LAMP TYPE	LAMP WATTAGE	OPTICS TYPE	OPTICS DISTRIBUTION	LENS TYPE	MOUNTING HEIGHT ABOVE ROAD	REMARKS
P	2	GE GE	LUMINAIRE: DECASHIELD I75 SPMM-10-MH-1-H-2-G-SC5-DB POLE: ARSA-20-DO-5F-DB	METAL HALIDE MHC100/U/M3K	100	SEMI-CUT-OFF	IES TYPE V	FLAT GLASS	20 FT. + 24"	PROVIDE PHOTOCELL
A	1	GE GE	LUMINAIRE: DECASHIELD POWERDOOR M2AC-10M-1-H-2-G-MC3 ARM: SA - 6 FT. RRTA-20-SA-6S-6.0IB	METAL HALIDE MHC100/U/M3K	100	SEMI-CUT-OFF	IES TYPE III	FLAT GLASS	20 FT. + 24"	PROVIDE PHOTOCELL

NOTES:
1. SITE LIGHTS SHALL BE MOUNTED ON CONCRETE BASES PER VTrans STANDARD E-180B WITH 24" BASE TO PROJECT ABOVE PAVEMENT SURFACE (SEE LIGHTING DETAILS).
2. PROVIDE STAINLESS STEEL ANCHOR BOLTS FOR ALL POLES

4" SDR 35 SEWER PIPE

NOTE 1: NEW 5" SLEEVE @ STA 23+10
NOTE 2: NEW 4" SLEEVE @ 3+77 LT 27 TO 4+07 LT 27
NOTE 3: JB RELOCATED TO 23+10 LT

CAP CONDUIT UNDERGROUND WITH PULL ROPE FOR FUTURE USE (SECONDARY TO FUTURE BUIDING)

LEGEND

○-○	TYPE P SITE LIGHT
⬭	TYPE A SITE LIGHT
■	FIBERGLASS PAD AND CABINET
JB	JUNCTION BOX
---EP---	UNDERGROUND ELECTRICAL PRIMARY
---ES---	UNDERGROUND ELECTRICAL SECONDARY
---C---	UNDERGROUND CATV
---T---	UNDERGROUND TELEPHONE
--OHE--	OVERHEAD ELECTRICAL
(A)	CONDUIT SCHEDULE KEY TAG

CONDUIT SCHEDULE KEY TAG	CONDUIT	CONDUCTORS
A	(1) 3"	3#2
B	(1) 2"	4#6, 1#6G
C	(1) 2"	2#6, 1#6G
D	(2) 4"	WITH PULL ROPE
E	(1) 4"	WITH PULL STRING
G	(2) 2"	6#6, 1#6 G

INSTALL FIBERGLASS SINGLE PHASE TRANSFORMER PAD FURNISHED BY GMP. PROVIDE GROUNDING RING PER GMP REQUIREMENTS. SEE DETAILS.

PROVIDE 24"X36"X36" JUNCTION BOX (CATV)

PROVIDE 24"X36"X36" JUNCTION BOX (TEL.)

TELEPHONE/CATV CONDUIT TO BE PAID FOR AS 678.21 - ELECTRICAL CONDUIT

(3) WITH ELECTRICAL CONDUIT SLEEVES (6",6",10")

PROVIDE 24"X36"X36" JUNCTION BOX (CATV)

K 30.3
3 PHASE VAULT

PROVIDE 24"X36"X36" JUNCTION BOX (TEL.)

ELECTRICAL CONDUIT WITH SLEEVE (4")

NEW VAULT

NOTE # 2

NOTE # 3

JB RELOCATED W.O. # 4

CAP EMPTY 2"x120' CONDUIT UNDERGROUND WITH PULL STRING (TO BE CONNECTED TO FUTURE PARKING LOT LIGHTING SYSTEM)

CAP EMPTY 2"x15' CONDUIT UNDERGROUND WITH PULL STRING (TO BE CONNECTED TO FUTURE LOOP ROAD LIGHTING SYSTEM)

INSTALL FIBERGLASS SECTOR CABINET PAD AND SECTOR CABINET FURNISHED BY GMP. PROVIDE GROUNDING RING PER GMP REQUIREMENTS. SEE DETAIL.

INSTALL FIBERGLASS TERMINAL BOX FURNISHED BY GMP. PROVIDE GROUNDING RING PER GMP REQUIREMENTS. SEE DETAILS.

PROVIDE 24" X 36" X 36" JUNCTION BOX (TEL.)

PROVIDE 24" X 36" X 36" JUNCTION BOX (CATV)

SITE LIGHT LOCATION & CIRCUITING SCHEDULE

SITE LIGHT	STATION	OFFSET	CIRCUIT	VOLTAGE
A-1	20+47.93	26.55' RT	SLP-1	120 V
A-2	20+90.25	20.42' RT	SLP-1	120 V
A-3	21+77.18	20.42' RT	SLP-1	120 V
A-4	22+64.16	20.45' RT	SLP-1	120 V
A-5	23+50.47	20.45' RT	SLP-1	120 V
P-1	0+57.28	32.35' LT	SLP-2	120 V
P-2	1+33.63	32.35' LT	SLP-2	120 V
P-3	2+09.40	32.35' LT	SLP-2	120 V
P-4	2+85.71	32.35' LT	SLP-2	120 V
P-5	3+62.75	32.35' LT	SLP-2	120 V

NOTE: ALL "A" LIGHTS HAVE BREAKAWAY FEATURES (SEE STD. E-180B)

INSTALL FIBERGLASS SECTOR CABINET PAD AND SECTOR CABINET FURNISHED BY GMP. PROVIDE GROUNDING RING PER GMP REQUIREMENTS. SEE DETAIL.

PROVIDE 24" X 36" X 36" JUNCTION BOX (ELEC.) MOVED TO 23+10 LT

SITE LIGHTING SERVICE PEDESTAL (PAID AS ITEM 679.28 POWER STANCHION)

SECONDARY RISER AT UTILITY POLE

UTILITY POLE BY GREEN MOUNTAIN POWER CONTACT: BRUCE BUSHEY, FIELD SERVICE ASSOCIATE, TEL. 655-8426

CAP UTILITY CONDUITS (ELECTRIC, TEL. & CATV) FOR FUTURE BUILDING 12" ABOVE GRADE

VT ROUTE 22A

TH #46 MEIGS ROAD

CLASS 3 WETLAND

AER EXIT

SCALE: 1" = 40'

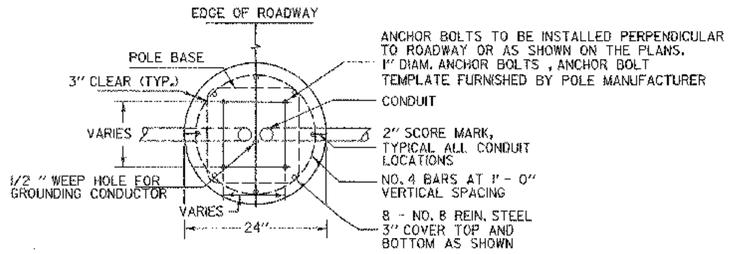
PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\Plotfiles\34lighting.plt	PLOT DATE: 5/9/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: LAB/MLC	CHECKED BY: LAB
LIGHTING PLAN	SHEET 34 OF 65

Dufresne-Henry

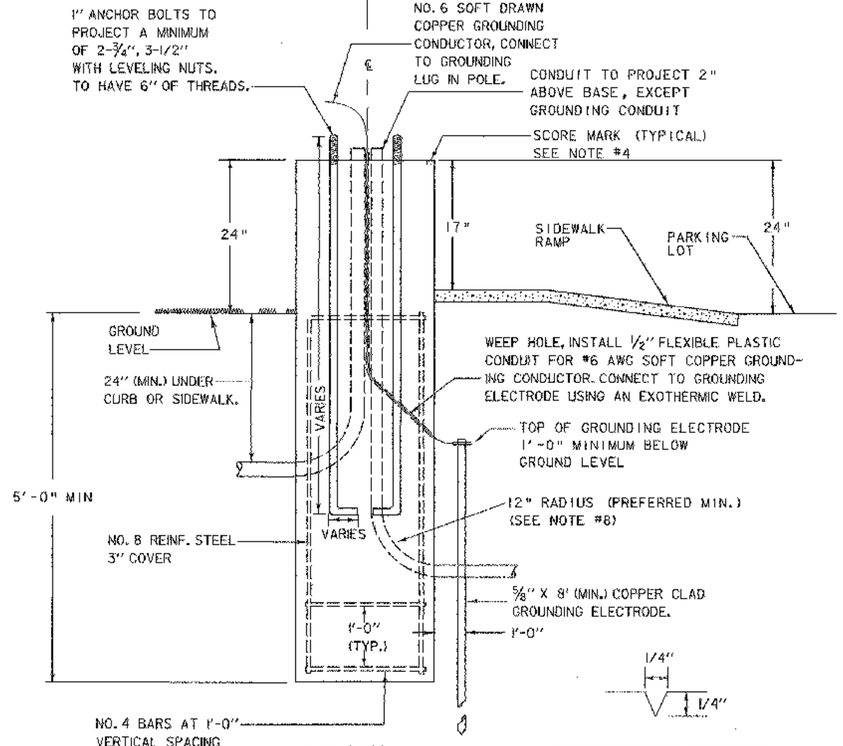
TYPICAL TRENCH SECTION NOTES:

1. BOTTOM OF TRENCH SHALL BE UNDISTURBED ORIGINAL GROUND OR FIRMLY COMPACTED EARTH FREE FROM VOIDS, ROCK OR RUBBLE AND OF RELATIVELY SMOOTH ARCH, AND LINED WITH A MINIMUM OF 2 INCHES OF CLEAN SAND.
2. CONDUIT UNDER AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE ENCASED IN RIGID PLASTIC OR STEEL PIPE SLEEVES. 6" ENCASEMENT AROUND PVC CONDUITS TO FIVE FEET (5') BEYOND EDGE OF PAVEMENT, TYPICAL.
3. SEE TYPICAL TRENCH DETAIL FOR SPACING TO BE MAINTAINED BETWEEN ADJACENT CONDUITS.
4. PVC CONDUIT SHALL BE PRIMED AND GLUED TO FORM A WATERTIGHT SEAL.

CONCRETE BASE

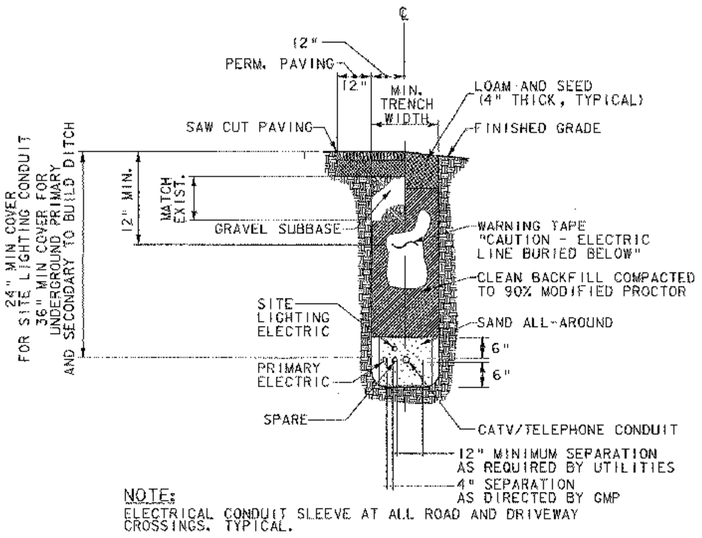


PLAN VIEW



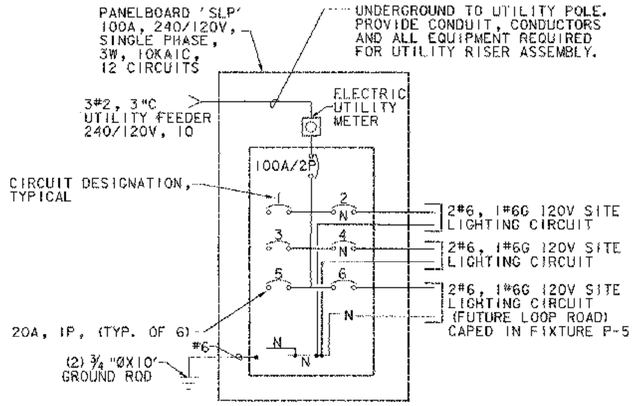
ELEVATION **SCORE MARK DETAILS**

CONCRETE POLE BASE DETAIL
NOT TO SCALE



NOTE:
ELECTRICAL CONDUIT SLEEVE AT ALL ROAD AND DRIVEWAY CROSSINGS. TYPICAL.

TYPICAL TRENCH SECTION
NOT TO SCALE

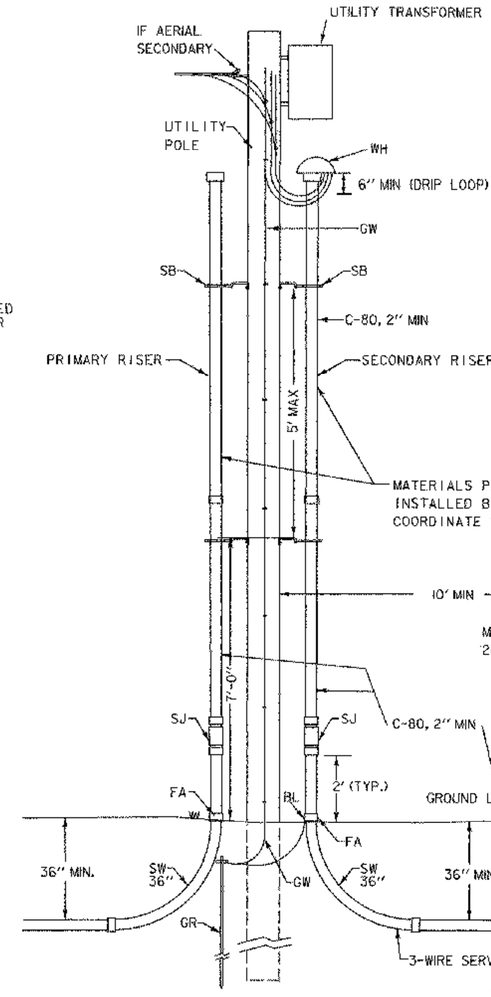


ONE-LINE DIAGRAM SITE LIGHTING SERVICE PEDESTAL 'SLP'
NOT TO SCALE

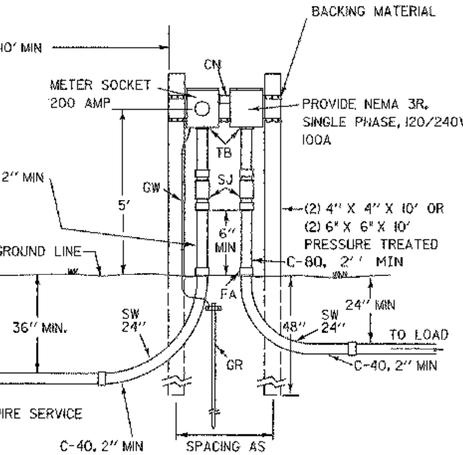
NOTE: NO RELAYS REQUIRED

CONCRETE POLE BASE NOTES:

1. ALL CONCRETE BASES TO BE CONCRETE, CLASS B, AND SHALL HAVE A SMOOTH LEVEL TOP SURFACE FINISHED WITH A 1/2 INCH RADIUS EDGING TOOL. ALL BASES SHALL BE PAINTED DARK BRONZE TO MATCH LIGHT POLE COLOR. BASES NOT PAINTED, APP'D BY PM W. DAVIS
2. ALL REINFORCING STEEL TO CONFORM TO THE REQUIREMENTS FOR "REINFORCING STEEL."
3. TEMPLATE FOR ANCHOR BOLTS, STAINLESS STEEL ANCHOR BOLTS, NUTS, AND WASHERS TO BE OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION OF BASES.
4. SCORE TOP OF CONCRETE BASE TO SHOW LOCATION OF CONDUIT(S).
5. CONDUIT SIZE - AS SHOWN ON THE PLANS.
6. ALL EXPOSED METAL HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
7. IF THE ELECTRICAL CONDUIT IN THE CONCRETE BASE IS GALVANIZED STEEL, GROUNDING BUSHINGS SHALL BE USED.
8. THE MINIMUM RADIUS FOR RIGID METALLIC OR NON-METALLIC ELECTRICAL CONDUIT SHALL BE SIX TIMES THE INSIDE DIAMETER OF THE CONDUIT.
9. SEE STANDARD SHEET E-173 FOR JUNCTION BOX DETAIL.
10. STREET LIGHT POLES ALONG ACCESS ROAD SHALL HAVE A BREAKAWAY DEVICE (SLIP BASE ASSEMBLY, SEE VTrans STANDARD E-180B) BETWEEN THE POLE BASE AND CONCRETE BASE.
11. STREET LIGHT POLES IN PARKING LOT SHALL HAVE A NON-BREAKAWAY BASE (ANCHOR BASE ASSEMBLY, SEE VTrans STANDARD E-180B).



UTILITY POLE



SERVICE PEDESTAL

NOTES:
1. MINIMUM 3" NEMA APPROVED PVC SCHEDULE 80 SHALL BE USED.
2. ATTACH CONDUIT ON SIDE OF POLE AWAY FROM TRAFFIC WHEN POSSIBLE.
3. INSTALL LOWEST STANDOFF BRACKET AT 7 FEET ABOVE GRADE. SPACE REMAINING STANDOFF BRACKETS APPROX. 5 FEET APART.
4. INSTALL SLIP JOINT APPROXIMATELY 2/3 OPEN.
5. TERMINATE CONDUIT WITH CONDULATOR FOR PRIMARY CABLE, OR WEATHERHEAD FOR SECONDARY CABLE.
6. SEE VTrans STANDARD E-175 FOR BACKING MATERIAL DETAIL

UTILITY POLE AND SERVICE PEDESTAL DETAIL
NOT TO SCALE

(ALL WORK TO BE PAID FOR INCIDENTAL TO 679.28 - POWER STANCHION)

LEGEND

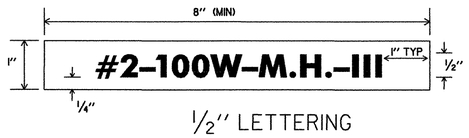
ITEM	MATERIAL
BL	BONDING LUG (IF STEEL CONDUIT)
C-40	CONDUIT - PVC SCHEDULE 40
C-80	CONDUIT - PVC SCHEDULE 80
CN	CONDUIT NIPPLE
FA	FEMALE ADAPTER OR COUPLINGS AS REQUIRED
GR	GROUND ELECTRODE, 5/8" X 8' (MIN) COPPER CLAD (2 REQ.)
GW	GROUND CONDUCTOR, #6 AWG CU (MIN)
SB	STANDOFF BRACKET
SJ	SLIP JOINT, INSTALL 2/3 OPEN
SSS	STAINLESS STEEL STRAP (1" MIN)
SW	90° SWEEPS, (PVC) 36" R. - SERVICE, 24" R. - LOAD
TB	THREADED BUSHING
WH	WEATHERHEAD OR CONDULATOR

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EHOI(21)

FILE NAME: ...\35lightingdetails1.pff
PROJECT LEADER: WLD
DESIGNED BY: LAB/MLC
PLOT DATE: 5/9/2006
DRAWN BY: MBL
CHECKED BY: LAB

LIGHTING DETAILS SHEET 1
SHEET 35 OF 65

DH Dufresne-Henry



1/2" LETTERING

LEGEND: BLACK OR WHITE (NON-REFL.) - STAMPED PRIOR TO PRINTING/PAINTING.

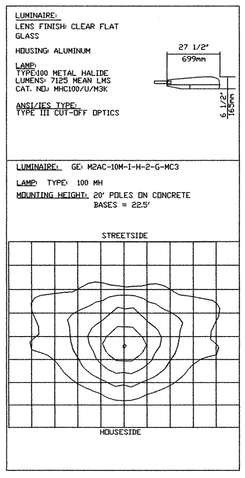
BACKGROUND: DARK BRONZE SURFACE, SAME AS POLE FINISH.

DETAILS FOR TAGS ATTACHED TO STREET LIGHT POLES

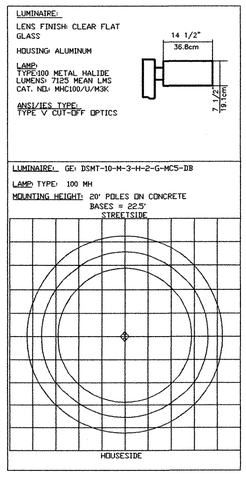
NOTES:

1. THE TAG SHALL BE MOUNTED ON ALL STREET LIGHT POLES IN SUCH A MANNER AS NOT TO BE EASILY REMOVED, SUCH AS WELDED, RIVETED, OR BOLTED WITH VANDAL PROOF BOLTS.
2. THE LETTERS SHALL BE PUNCHED, STAMPED, ENGRAVED, OR PHOTO-ETCHED. PUNCHING, STAMPING OR ENGRAVING SHALL PENETRATE AT LEAST 1/2 THE BASE MATERIAL THICKNESS.
3. THE BASE MATERIAL FOR THE TAG SHALL BE ALUMINUM WITH A MINIMUM THICKNESS OF 0.100 INCHES.
4. THE TAG SHALL BE ATTACHED TO THE POLE ABOVE THE HANDHOLE, 6 INCHES MAXIMUM. IF THE POLE HAS A TRANSFORMER BASE ATTACH TAG TO COVER.
5. TYPE 'P' FIXTURE TAG SHALL READ P-#-100W-M.H.-V. TYPE 'A' FIXTURE TAG SHALL READ A-#-100W-M.H.-III.

PHOTOMETRIC DATA



FIXTURE TYPE 'A'
ISO-FOOTCANDLE DATA
NO SCALE



FIXTURE TYPE 'P'
ISO-FOOTCANDLE DATA
NO SCALE

GENERAL SITE ELECTRICAL LIGHT NOTES

CONCRETE BASES

WHEN CONCRETE BASES ARE INSTALLED IN SLOPING GROUND, THE GREATEST EXPOSED HEIGHT TO KEEP ALL OF THE TOP ABOVE GROUND MUST BE DOUBLED AND THEN ADDED TO THE MINIMUM DEPTH FOR THE TOTAL BASE DEPTH.

CARE SHOULD BE TAKEN WHERE CONCRETE BASES, DRAINAGE STRUCTURES OR UTILITIES ARE CLOSE TOGETHER.

POLES, ANCHOR BASES AND ARMS

REFER TO LUMINAIRE SCHEDULE FOR ALUMINUM STREET LIGHT POLE SHAFT WALL THICKNESS.

ALL NEW STREET LIGHT POLES AND LUMINAIRE ARMS SHALL BE ALUMINUM IN ACCORDANCE WITH SUBSECTION 753.01 (B). REFER TO LUMINAIRE SCHEDULE FOR POLE MATERIAL SPECIFICATION.

STREET LIGHT POLES ALONG ACCESS ROAD SHALL HAVE A BREAKAWAY DEVICE (SLIP BASE ASSEMBLY, SEE VTrans STANDARD E-180B) BETWEEN THE POLE BASE AND CONCRETE BASE.

STREET LIGHT POLES IN PARKING LOT SHALL HAVE A NON-BREAKAWAY BASE (ANCHOR BASE ASSEMBLY, SEE VTrans STANDARD E-180B).

WIRE

ALL WIRING BETWEEN THE METER AND/OR POWER SOURCE AND THE FIRST POLE AND/OR PULLBOX AND BETWEEN POLES AND/OR PULLBOXES SHALL BE COPPER AND SIZED AS SPECIFIED ON THE PLANS. ALL WIRE SHALL HAVE TYPE XHHW INSULATION OR EQUIVALENT.

GROUNDING

ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR. RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUND CONDUCTOR.

ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

PULLBOXES

FOR DETAILS SEE VTrans STANDARD SHEET E-173.

GENERAL

THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE, LOAD TO NEUTRAL.

THE LAST CONCRETE POLE BASE AT THE END OF EACH CIRCUIT AND SOME PULLBOXES SHALL HAVE A CONDUIT SWEEP WITH CAP INSTALLED FOR FUTURE USE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY ELECTRICAL PERMITS.

LUMINAIRES

LIGHT DISTRIBUTION IS BASED ON GENERAL ELECTRIC PHOTOMETRIC DATA DRAWINGS #35-178271, MEDIUM CUT-OFF, TYPE III DISTRIBUTION, DATED 09-28-90 AND #35-178665, SHORT CUTOFF, TYPE V DISTRIBUTION, DATED 03-06-97.

THE PHOTOMETRIC DATA DRAWINGS WERE USED FOR DESIGN PURPOSES ON THIS PROJECT. OTHER MANUFACTURER'S PRODUCTS MAY BE SUBSTITUTED IF THE INSTALLED LUMINAIRE LIGHT UTILIZATION AND MINIMUM FOOTCANDLES ON THE ROADWAY, SHOULDER AND SIDEWALK ARE AT LEAST AS GREAT AS THAT INDICATED BY THE ABOVE PHOTOMETRIC.

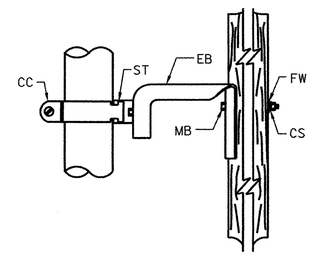
CONDUIT

A 2 INCH (I.D.) MINIMUM CONDUIT SHALL BE USED AT ALL LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS, ALL CONDUIT SHALL BE AT LEAST SCHEDULE 40 P.V.C.

CONDUIT SLEEVE

MINIMUM WALL THICKNESS FOR RIGID PLASTIC PIPE SLEEVES SHALL BE 1/35TH THE DIAMETER. ALL CONDUIT RUNS UNDER ROADWAY SHALL BE INSTALLED IN RIGID PLASTIC OR STEEL PIPE SLEEVES. THE SLEEVE SHALL EXTEND TO WITHIN 2 FEET OF THE SIDE OF A CONCRETE BASE OR PULLBOX. WHERE NO CONCRETE BASE OR PULLBOX IS PRESENT, THE SLEEVE SHALL EXTEND 4 FEET BEYOND THE OUTSIDE EDGE OF SHOULDER OR FACE OF CURB.

WHEN JACKING A SLEEVE UNDER A ROADWAY IT SHALL BE STEEL WITH A MINIMUM DIAMETER OF 8 INCHES AND MINIMUM WALL THICKNESS OF 3/8 INCH. ACTUAL LENGTH TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

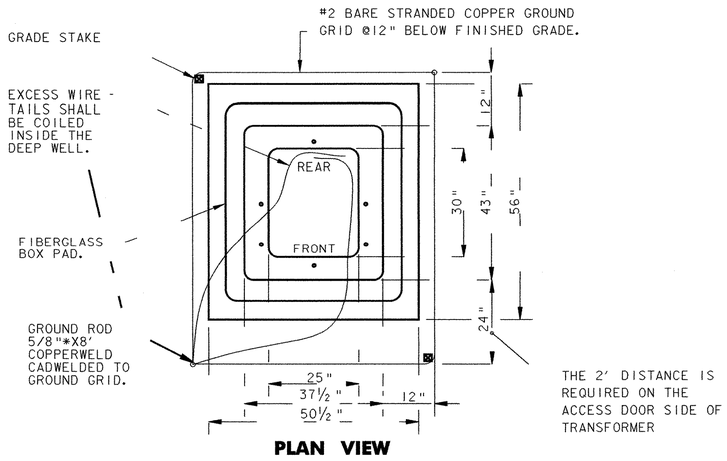


ITEM	NO REQUIRED	CODE	MATERIAL
MATERIAL FOR ONE STANDOFF BRACKET			
FW	1		FLAT WASHER 2"x2"
CS	1		COIL SPRING WASHER
REB	1		RACK EXTENSION BRACKET
ST	1		STRUT (CUT TO LENGTH)
CC	1		CONDUIT CLAMP
MB	1		MACHINE BOLT 5/8"

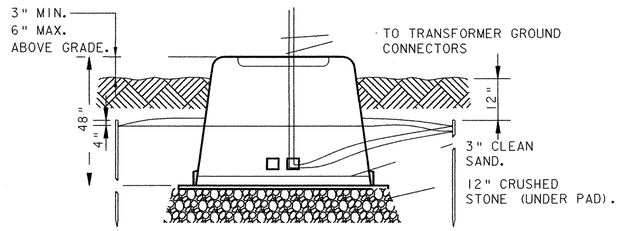
STANDOFF BRACKET
NOT TO SCALE

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\36lightingdetails2.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: LAB/MLC	CHECKED BY: LAB
LIGHTING DETAILS SHEET 2	SHEET 36 OF 65

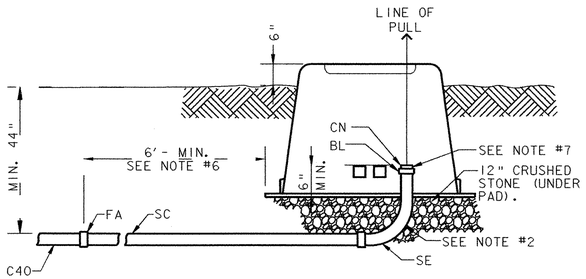
Dufresne-Henry



PLAN VIEW



FRONT ELEVATION



SECTION AT FIBERGLASS PAD

FIBERGLASS TRANSFORMER PAD AND SECTOR CABINET PAD WITH GROUNDING GRID DETAIL

NOTES:

1. PADS ARE FURNISHED BY GREEN MOUNTAIN POWER (GMP) INSTALLED BY CONTRACTOR AND INSTALLED PER GMP STANDARDS.
2. SET FIBERGLASS PAD TO PROVIDE ADEQUATE DRAINAGE AWAY FROM PAD. LOCATE THE FIBERGLASS PAD SO THAT IT SHALL BE ACCESSIBLE BY TRUCK.
3. THE TRANSFORMER MUST BE SECURED TO ITS PAD BY USING 2-3/8" BOLTS WITH APPROPRIATE WASHERS.
4. INSTALL 3" CLEAN SAND IN BOTTOM OF BOX PAD.
5. INSTALL DIMENSIONS MAY VARY WITH MANUFACTURER.
6. ELBOW MUST BE ALIGNED TO ALLOW STRAIGHT PULL THROUGH BOX PAD OPENING.
7. A 90° ELBOW IS TYPICAL, HOWEVER, CONDITIONS MAY REQUIRE THAT A 45° ELBOW BE SPECIFIED BY ENGINEERING.
8. PROVIDE SUFFICIENT CLEARANCE SO BOX PAD DOES NOT CONTACT ELBOW.
9. CONDUIT END TO BE SEALED, WITH APPROVED DUCT SEAL, AFTER CABLES ARE INSTALLED.
10. STEEL CONDUIT SHALL EXTEND AT LEAST 6 FEET FROM BOX PAD.
11. EXPOSED STEEL CONDUIT TO BE BONDED TO GROUND GRID.
12. FIBERGLASS PAD SHALL BE PROVIDED BY UTILITY (GMP) AND INSTALLED BY CONTRACTOR. ALL WORK REQUIRED TO INSTALL FIBERGLASS PAD, GROUNDING RING, AND ALL OTHER APPORTENANCES INCLUDING BUT NOT LIMITED TO EXCAVATION AND BACKFILL, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 678.26 JUNCTION BOX (MOD.)
13. PLAN VIEW DIMENSIONS ARE FOR TRANSFORMER PAD. VERIFY DIMENSIONS FOR SECTOR CABINET PAD.

ITEM	MATERIAL
C40	PVC CONDUIT (SCH. 40)
FA	FEMALE ADAPTER
SE	STEEL ELBOW (STD. RADIUS)
CN	CHASE NIPPLE
SC	STEEL CONDUIT
BL	BONDING LOCKNUT

GENERAL ELECTRICAL NOTES

1. THE SCOPE OF WORK IS TO PROVIDE ALL LABOR, MATERIALS, SERVICES, SUPPLIES, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES NECESSARY TO FURNISH AND INSTALL COMPLETE ELECTRICAL WORK AS CALLED FOR ON THE DRAWINGS, SPECIFIED, OR AS MAY REASONABLY BE IMPLIED AS BEING INCIDENTAL TO THIS WORK.

2. SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, INSPECTIONS, AND APPROVALS.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF WORK. BASIC DESIGN CONCEPTS INDICATED ARE TO BE EITHER FOLLOWED OR BETTERED. WORK IS INTENDED TO INCLUDE ITEMS NECESSARY FOR PROPER OPERATION AND COMPLETION. FIELD VERIFY ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS.

4. EXECUTE ALL WORK IN A NEAT AND WORKMANLIKE MANNER IN CONFORMANCE WITH BEST MODERN TRADE PRACTICE, BY COMPETENT, EXPERIENCED MECHANICS, PRESENTING A NEAT APPEARANCE WHEN COMPLETED. REPLACE WORK NOT APPROVED BY OWNER WITHOUT ADDITIONAL CHARGE.

5. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL CODES, REGULATIONS AND REQUIREMENTS OF ALL MUNICIPAL, STATE, FEDERAL AND OTHER PUBLIC OR PRIVATE AUTHORITIES WHICH HAVE JURISDICTION. IN EACH CASE, CODES ARE MINIMUM REQUIREMENTS.

6. SHOP DRAWINGS: SUBMIT COMPLETE CATALOG INFORMATION FOR ALL MATERIALS AND EQUIPMENT TO BE PURCHASED AND USED ON THIS PROJECT, AS SPECIFIED BY THE DRAWINGS. DO NOT INSTALL MATERIALS OR EQUIPMENT WITHOUT APPROVAL BY THE OWNER. UNAPPROVED MATERIAL ALREADY INSTALLED SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT WITH APPROVED MATERIALS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT APPROVED SUBSTITUTE ITEMS WILL FIT INTO AVAILABLE SPACES AND FOR ANY EXTRA CHARGES BY OTHER TRADES.

7. AS THERE MAY BE VARIOUS CONDITIONS AT THE SITE WHICH DO NOT SHOW ON THE ACCOMPANYING DRAWINGS, OR WHICH ARE AT VARIANCE WITH THE CONDITIONS INDICATED ON THE DRAWINGS, IT IS IMPORTANT THAT EACH BIDDER VISIT THE SITE AND ACQUAINT THEIR SELF WITH EXISTING CONDITIONS AND TAKE THESE CONDITIONS INTO CONSIDERATION WHEN PREPARING THEIR BID. EACH BIDDER SHALL OBTAIN INFORMATION OR MAKE ANY MEASUREMENT DESIRED. LACK OF KNOWLEDGE RELATIVE TO EXISTING SITE CONDITIONS WILL NOT BE ALLOWED AS A BASIS FOR EXTRA COMPENSATION.

8. THE FINISHED INSTALLATION SHALL BE COMPLETE IN EVERY RESPECT AND DETAIL, TESTED AND LEFT READY IN PERFECT OPERATING CONDITION FOR THE OWNER'S USE.

9. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS.

10. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

11. CONTRACTOR TO CONTACT DIGSAFE IN VERMONT PRIOR TO COMMENCING WORK.

12. CONTRACTOR TO CONTACT UTILITY COMPANY FOR COORDINATION OF NEW ELECTRICAL SERVICE.

13. CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES FOR INSTALLATION REQUIREMENTS OF ALL SERVICE INFRASTRUCTURES, INCLUDING ELECTRICAL, TELEPHONE & CATV

14. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND INCLUDING ALL UTILITY COSTS.

DIG SAFE NOTE:

UTILITIES ARE PLOTTED FROM FIELD LOCATIONS AND ANY RECORD INFORMATION AVAILABLE, AND SHOULD BE CONSIDERED APPROXIMATE. OTHER UTILITIES MAY EXIST WHICH ARE NOT EVIDENT OR FOR WHICH RECORD INFORMATION WAS NOT AVAILABLE. CONTRACTORS MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING. ALSO, CALL "DIG SAFE" AT 1(888)344-7233 [1(888)DIG-SAFE].

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\37lightingdetails3.ptf | PLOT DATE: 5/9/2006
PROJECT LEADER: WLD | DRAWN BY: MBL
DESIGNED BY: LAB/MLC | CHECKED BY: LAB
LIGHTING DETAILS SHEET 3 | SHEET 37 OF 65

DH Dufresne-Henry

VT STATE PLANE GRID

10 SEAGREEN JUNIPERS

SERBIAN SPRUCE

MULCH BED

LIMITS OF LANDSCAPING (TYP.)

6 SARGENT CHERRY

10 ARROWWOOD

2 SARGENT CHERRIES

2 FLOWERING CRABAPPLES

2 RED MAPLE

2 SERVICEBERRY

2 SHADBUSH

9 REDOSIER DOGWOODS -- PLANT ALONG OUTSIDE EDGE

14 ANGLOJAP YEW IN MEDIAN

PLANETREE MAPLE

5 WINTERBERRY, 4 SPICEBUSH MIX, AND GENERALLY PLANT WINTERBERRY BEHIND REDOSIER DOGWOOD.

3 REDBUD

S44°06'51.840"W

NOTE: SEE PLANTING SPECIFICATIONS FOR BIORETENTION AREA ON DRAINAGE DETAIL SHEET #2.

5 PLANETREE MAPLE

SERBIAN SPRUCE

N45°53'08.115"W

7 RED MAPLE

6 FLOWERING CRABAPPLE

MULCH BED

5 SARGENT CHERRY

SERBIAN SPRUCE

7 ENGLISH HAWTHORNE

2 PLANETREE MAPLE

MULCH BED

2 PLANETREE MAPLE

EXISTING TREES (TYP.)

6+00 5+00 4+00 3+00 2+00 1+00 57+00 58+00 55+00 54+00 53+00 52+00 51+00 24+00 23+00 22+00 21+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 31+00

DECIDUOUS TREES (RED MAPLES)

STA. 0+37, 154' LT.
STA. 0+82, 180' LT.
STA. 1+25, 148' LT.
STA. 1+78, 152' LT.
STA. 2+26, 128' LT.
STA. 2+76, 124' LT.
STA. 3+21, 112' LT.
STA. 4+29, 49' LT.
STA. 4+37, 57' LT.

DECIDUOUS TREES (PLANETREE MAPLES)

STA. 21+28, 46' RT.
STA. 21+80, 46' RT.
STA. 22+81, 45' RT.
STA. 23+33, 47' RT.
STA. 23+83, 45' LT. RT.
STA. 22+52, 24' LT.
STA. 52+88, 25' LT.
STA. 53+66, 18' RT.
STA. 53+82, 34' LT.
STA. 54+25, 50' LT.

REPLACE WITH HACKBERRY C.O. # 1

DECIDUOUS TREES (RED BUD)

STA. 4+41, 72' LT.
STA. 4+39, 90' LT.
STA. 4+44, 106' LT.

DECIDUOUS TREES (SHADBUSH)

STA. 4+27, 60' LT.
STA. 4+32, 74' LT.

DECIDUOUS TREES (ENGLISH HAWTHORNES)

STA. 52+46, 27' LT.
STA. 53+24, 24' LT.
STA. 53+70, 31' LT.
STA. 54+17, 11' RT.
STA. 54+22, 24' LT.
STA. 54+40, 22' LT.
STA. 54+64, 9' LT. RT.

EVERGREEN TREES (SERBIAN SPRUCE)

STA. 3+58, 49' RT.
STA. 3+71, 94' LT.
STA. 4+71, 227' LT.
STA. 22+27, 45' RT.
STA. 24+08, 27' LT.

REPLACE W/ AMUR MAAKIA

DECIDUOUS TREES (SERVICEBERRY)

STA. 3+69, 18' LT.
STA. 3+70, 46' LT.

PLANT SCHEDULE

QUANT	COMMON NAME	SCIENTIFIC NAME	SIZE	NOTES
13	SARGENT CHERRY	PRUNUS SARGENTII	1.5 - 2" CAL.	B&B
10	SEAGREEN JUNIPER	JUNIPERUS CHINENSIS 'SEAGREEN'	3 GAL.	
10	ARROWWOOD	VIBURNUM DENTATUM	3 GAL.	
9	RED MAPLE	ACER RUBRUM	2.5 - 3" CAL.	B&B
9	REDOSIER DOGWOOD	CORNUS SERICEA	24 - 36" HT.	
5	WINTERBERRY	ILEX VERTICILLATA	24 - 36" HT.	
4	SPICEBUSH	LINDERA BENZOIN	24 - 36" HT.	
3	REDBUD	CERCIS CANADENSIS	1.5 - 2" CAL.	B&B
2	SHADBUSH CLUMP	AMELANCHIER CANADENSIS	6 - 7' HT.	B&B
5	SERBIAN SPRUCE	PICEA OMORIKA	6 - 7' HT.	B&B
2	SERVICEBERRY	AMELANCHIER LAEVIS	1.5 - 2" CAL.	B&B
7	ENGLISH HAWTHORNE	CRATAEGUS LAEVIGATA → AMUR MAAKIA	1.5 - 2" CAL.	B&B
10	PLANETREE MAPLE	ACER PSUEDOPLANTANUS → HACKBERRY	2.5 - 3" CAL.	B&B
8	FLOWERING CRABAPPLE	MALUS FLORIBUNDA	1.5 - 2" CAL.	B&B
14	ANGLOJAP YEW	TAXUS X MEDIA 'GREENWAVE'	18 - 24" HT.	

0 40 80
SCALE: 1" = 40'

DECIDUOUS SHRUBS (ANGLOJAP YEWS)

STA. 0+51, 26' LT.
STA. 0+51, 38' LT.
STA. 0+63, 26' LT.
STA. 0+63, 38' LT.
STA. 1+28, 26' LT.
STA. 1+28, 38' LT.
STA. 1+40, 26' LT.
STA. 1+40, 38' LT.
STA. 2+04, 26' LT.
STA. 2+04, 38' LT.
STA. 2+15, 26' LT.
STA. 2+15, 38' LT.
STA. 3+48, 26' LT.
STA. 3+48, 38' LT.

DECIDUOUS SHRUBS (SEAGREEN JUNIPER)

STA. 3+80, 54' RT.
STA. 3+85, 47' RT.
STA. 3+92, 56' RT.
STA. 4+01, 49' RT.
STA. 4+06, 59' RT.
STA. 4+14, 52' RT.
STA. 4+21, 61' RT.
STA. 4+29, 55' RT.
STA. 4+35, 62' RT.
STA. 4+43, 56' RT.

DECIDUOUS SHRUBS (ARROWWOOD)

STA. 4+10, 7' LT.
STA. 4+15, 1' RT.
STA. 4+22, 8' RT.
STA. 4+29, 2' RT.
STA. 4+29, 18' LT.
STA. 4+30, 13' RT.
STA. 4+37, 14' LT.
STA. 4+38, 6' RT.
STA. 4+39, 21' RT.
STA. 4+41, 15' RT.

DECIDUOUS SHRUBS (REDOSIER DOGWOODS)

STA. 55+75, 25' RT.
STA. 55+73, 20' RT.
STA. 55+76, 16' RT.
STA. 55+84, 14' RT.
STA. 55+88, 15' RT.
STA. 55+95, 14' RT.
STA. 55+99, 15' RT.
STA. 56+07, 15' RT.
STA. 56+11, 15' RT.

DECIDUOUS SHRUBS (WINTERBERRY)

STA. 55+81, 26' RT.
STA. 55+82, 19' RT.
STA. 55+94, 19' RT.
STA. 56+05, 19' RT.
STA. 56+30, 26' RT.

DECIDUOUS SHRUBS (SPICEBUSH)

STA. 55+90, 19' RT.
STA. 56+01, 19' RT.
STA. 56+26, 27' RT.
STA. 56+42, 26' RT.

DECIDUOUS TREES (SARGENT CHERRIES)

STA. 4+55, 47' RT.
STA. 4+80, 37' RT.
STA. 5+16, 38' RT.
STA. 5+45, 44' LT.
STA. 5+51, 20' LT.
STA. 5+59, 37' LT.
STA. 23+69, 22' LT.
STA. 23+75, 42' LT.
STA. 55+00, 91' LT.
STA. 55+28, 100' LT.
STA. 55+37, 105' LT.
STA. 55+41, 123' LT.
STA. 55+45, 107' LT.

DECIDUOUS TREES (FLOWERING CRABAPPLES)

STA. 0+25, 13' LT.
STA. 0+25, 49' LT.
STA. 0+64, 127' LT.
STA. 0+94, 124' LT.
STA. 1+25, 110' LT.
STA. 1+78, 108' LT.
STA. 1+98, 118' LT.
STA. 2+46, 109' LT.

NOTES:

1. FOR GENERAL LANDSCAPING NOTES, SEE LANDSCAPING DETAIL SHEET.
2. MULCH BEDS SHALL BE 4" (LOOSE) FINE CHIPPED BARK MULCH. MULCH TO BE PAID FOR AS 651.27 - CEDAR BARK MULCH (MOD.)

DH Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\38landscaping.ptf PLOT DATE: 5/24/2006
PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: CSP/GGG CHECKED BY: GAS
LANDSCAPING PLAN SHEET 38 OF 65

SEEDING FORMULA - LOW GROW/FINE FESCUE

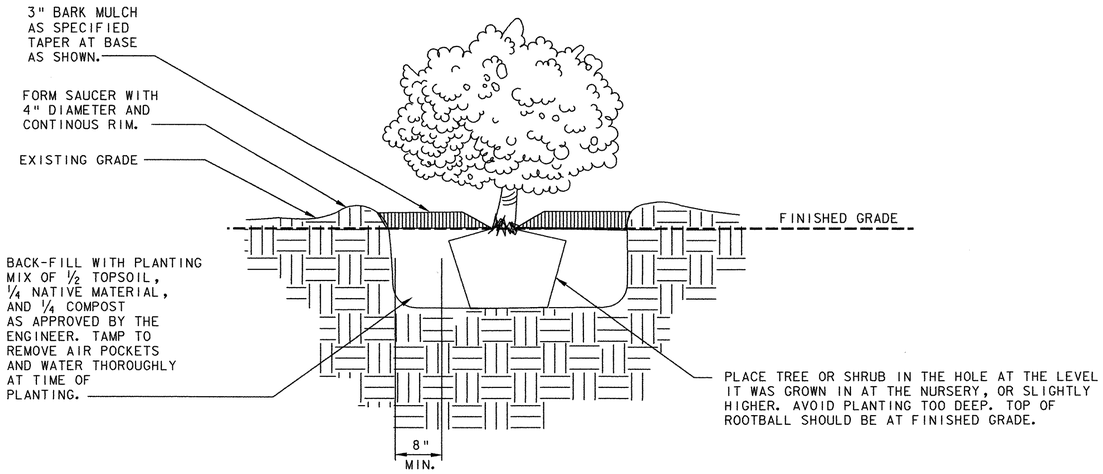
% WT.	LBS./AC. BROADCAST	LBS./AC. HYDROSEED	NAME	GERM %
37.6	75.2	94.0	CREEPING RED FESCUE/DEN	90
28.4	56.8	71.0	SPARTAN HARD FESCUE	85
14.4	28.8	36.0	AZAY SHEEPS FESCUE	87
14.2	28.4	35.5	ANNUAL RYEGRASS	90
1.0	2.0	2.5	CROP	
4.3	8.6	10.8	INERT	
0.1	0.2	0.2	WEED	
	200.0	250.0		

PERCENT OF SEED, CROP, WEED OR INERT MAY VARY +/-2%. VARIETIES OF GRASSES MAY BE SUBSTITUTED ONLY WITH APPROVAL FROM RESIDENT ENGINEER.

MOWING: RECOMMENDED EARLY MOWING ONCE OR TWICE WHEN GRASS REACHES 6" HEIGHT MAXIMUM TO PREVENT BROADLEAF WEED COMPETITION DURING ESTABLISHMENT PERIOD.

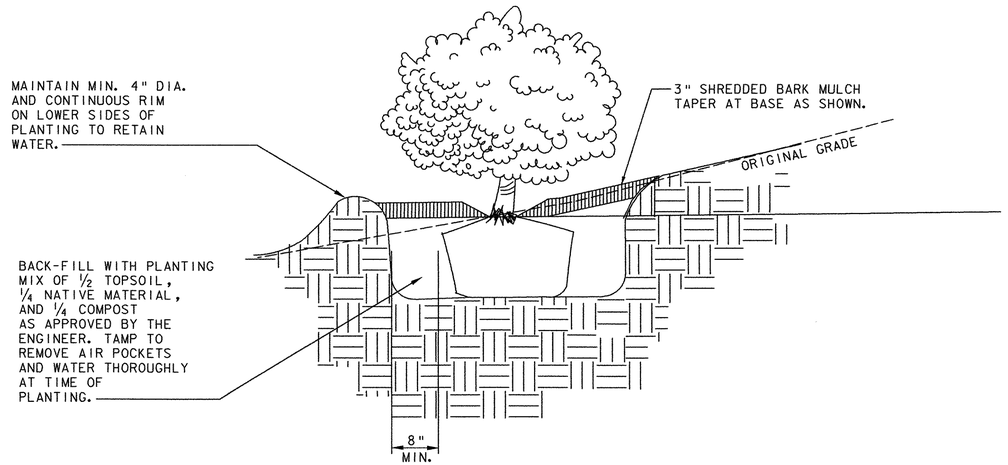
SEEDING NOTES

1. SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
2. SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER
3. FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).
4. AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.
5. STRAW MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.
6. TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.



SHRUB PLANTING DETAIL

NOT TO SCALE



SHRUB PLANTING ON SLOPES DETAIL

NOT TO SCALE

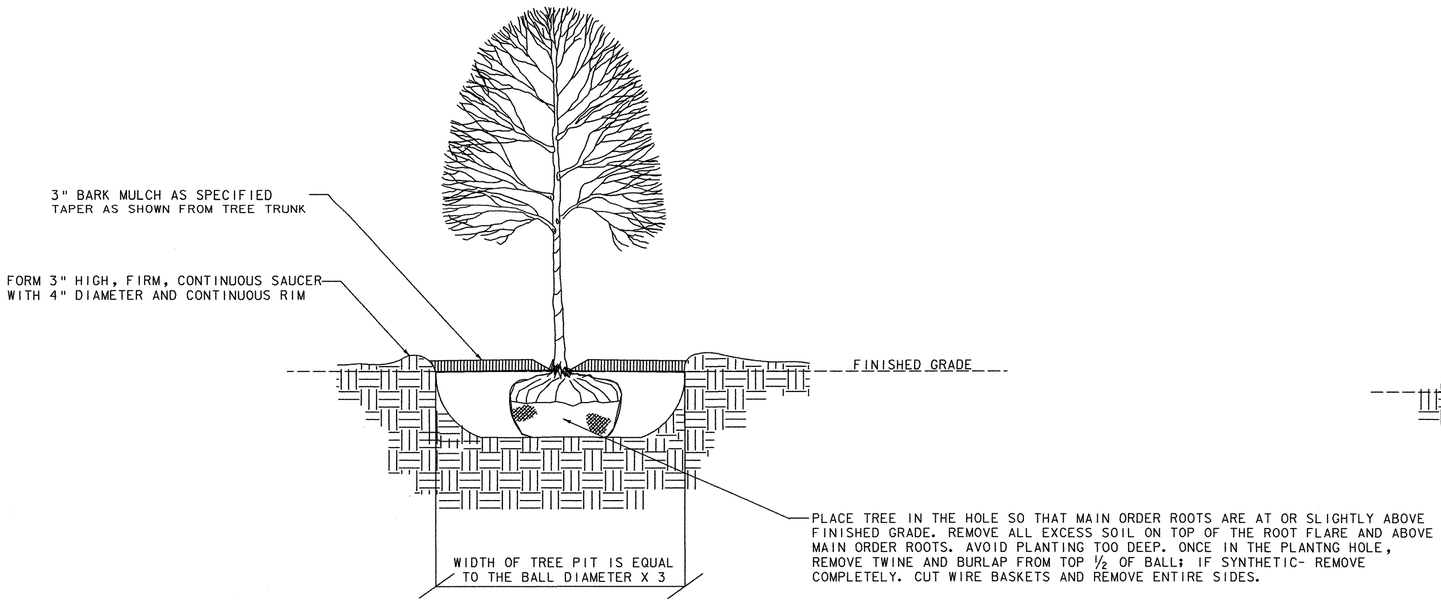
GENERAL LANDSCAPING NOTES

1. TOPSOIL BACKFILL MIX
   BACKFILL WITH PLANTING MIX OF ONE HALF SCREENED TOPSOIL, ONE QUARTER TOPSOIL (MOD.) - COMPOST, AND ONE QUARTER NATIVE MATERIAL AS APPROVED BY THE ENGINEER. TAMP TO REMOVE AIR POCKETS AND WATER THOROUGHLY IMMEDIATELY AFTER PLANTING, TO RECEIVE A MINIMUM OF 10 GALLONS AT EACH WATERING, TWICE WEEKLY DURING THE ESTABLISHMENT PERIOD. UNSUITABLE NATIVE MATERIAL SHALL BE REPLACED WITH IMPORTED APPROVED TOPSOIL AS DIRECTED BY THE ENGINEER.
2. ALL LANDSCAPE INSTALLATION SHALL CONFORM TO VTRANS SPECIFICATIONS 651 TURF ESTABLISHMENT, 656 PLANTING TREES, SHRUBS, AND VINES, AND 755 LANDSCAPING MATERIALS.
3. APPLICABLE STANDARDS: AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS, ANSI A300. AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-1990. HORTUS THIRD, THE STAFF OF THE L.H. BAILEY HORTORIUM. ALL STANDARDS SHALL INCLUDE THE LATEST ADDITIONS AND AMENDMENTS AS OF THE DATE OF ADVERTISEMENT FOR BIDS.
4. FOR BIORETENTION AREA PLANTING, SEE DRAINAGE DETAIL SHEET 2.
5. FOR LAWN SPECIFICATIONS, SEE THE TYPICAL SHEET.
6. FOR BIORETENTION PLANTING SOIL MIXTURE, SEE NOTE 1 ON DRAINAGE DETAIL SHEET 2.
8. PLACE MULCH IMMEDIATELY AFTER TREES AND SHRUBS ARE PLANTED. USE COMMERCIALLY-AVAILABLE FINE CHIPPED BARK MULCH.
9. ALL PLANTS SHALL BE CAREFULLY AND THOROUGHLY WATERED DURING PLANTING AND AS OFTEN AS NECESSARY THEREAFTER TO PROVIDE THE BEST GROWING CONDITIONS UNTIL ACCEPTANCE.
10. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE, AT THE EXPENSE OF THE CONTRACTOR.
11. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING, AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS AT THE EXPENSE OF THE CONTRACTOR.
12. CONTRACTOR SHALL MONITOR EXISTENCE OF BURROWING RODENTS, THAT MAY CHEW BARK & GIRDLE THE TREE. IF NECESSARY, CONTRACTOR SHALL PROVIDE RODENT PROTECTION AS DESCRIBED HEREIN. INSTALL ¼" HARDWARE CLOTH AROUND THE TRUNK OF NEWLY PLANTED TREES FROM BELOW THE GRADE ROOT FLARE TO A HEIGHT OF 12" ON THE TREE TRUNK AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL REMOVE AFTER TWO GROWING SEASONS.

DH Dufresne-Henry

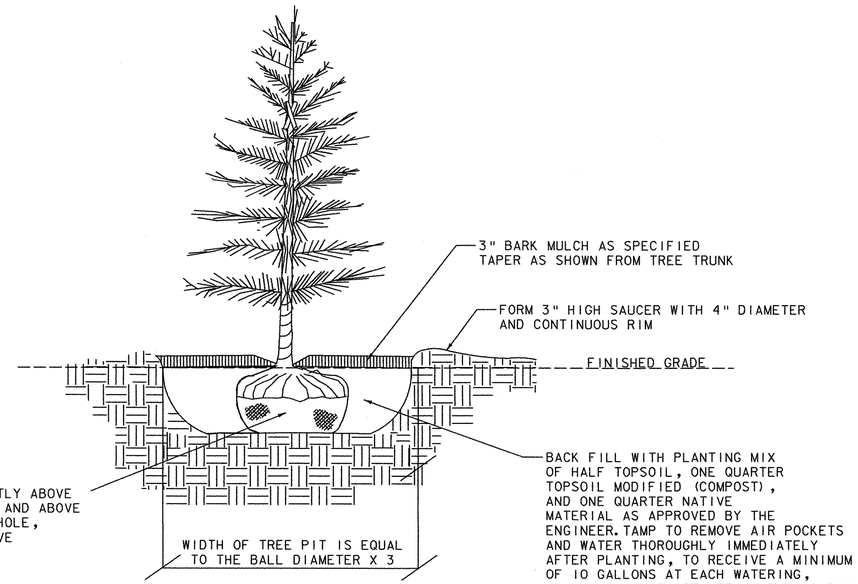
PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\39landscapingdetailsl.ptf | PLOT DATE: 5/24/2006
PROJECT LEADER: WLD | DRAWN BY: DDD
DESIGNED BY: JAS | CHECKED BY: GAS
LANDSCAPING DETAIL SHEET 1 | SHEET 39 OF 65



DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

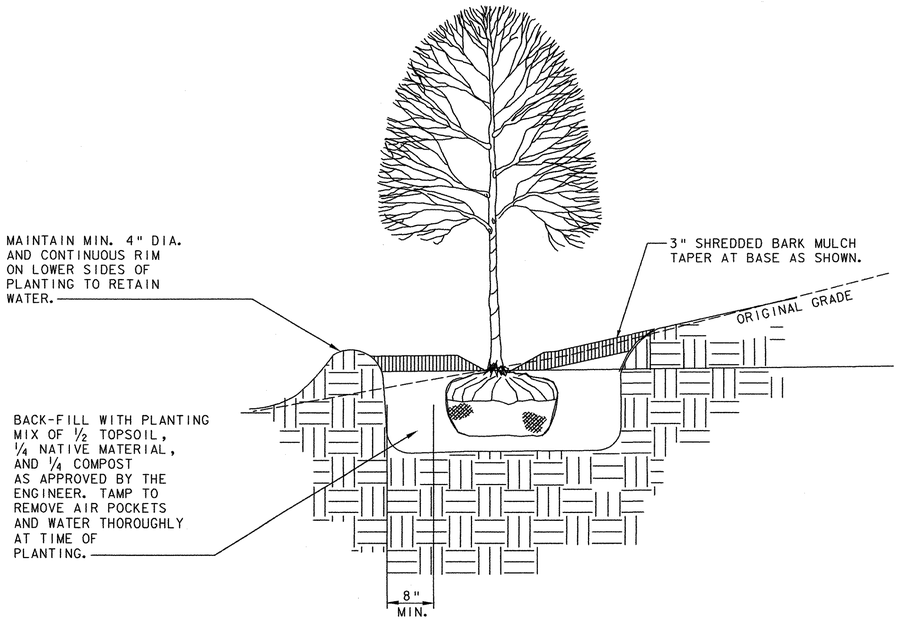


EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

NOTES:

1. ANTI-DESICCANT SPRAY IS TO BE APPLIED TO ALL EVERGREENS PER MANUFACTURER SPECIFICATIONS.
2. COMPLETELY REMOVE ALL GUY-WIRES AND TURNBUCKLE ONE YEAR AFTER PLANTING.



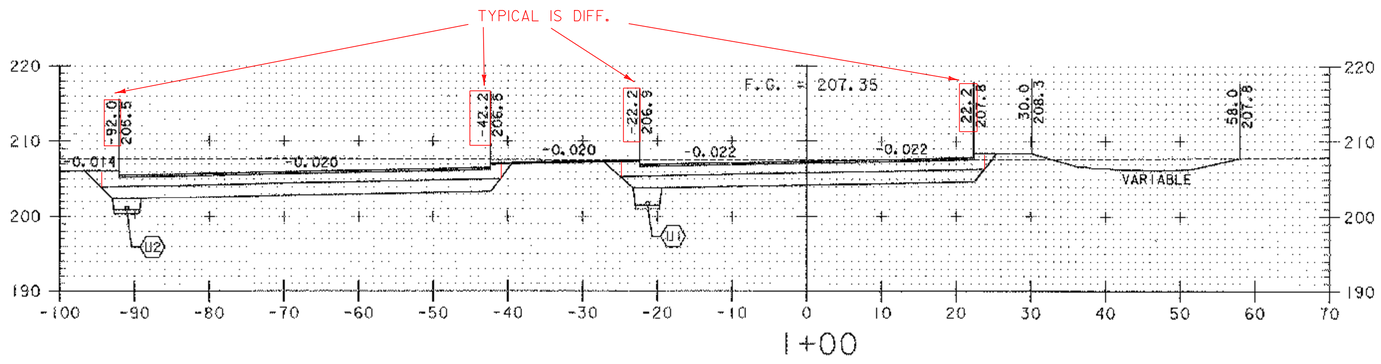
DECIDUOUS TREE ON SLOPES DETAIL

NOT TO SCALE

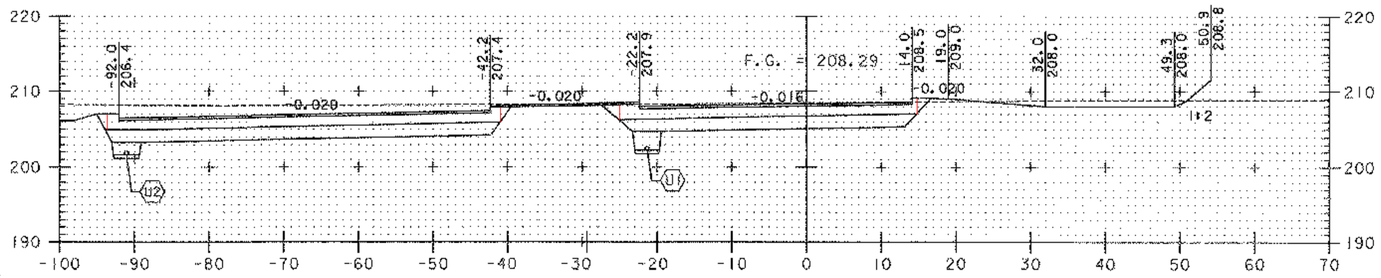
PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\40landscapingdetails2.ptf	PLOT DATE: 5/9/2006
PROJECT LEADER: WLD	DRAWN BY: DDD
DESIGNED BY: JAS	CHECKED BY: GAS
LANDSCAPING DETAIL SHEET 2	SHEET 40 OF 65

DH Dufresne-Henry

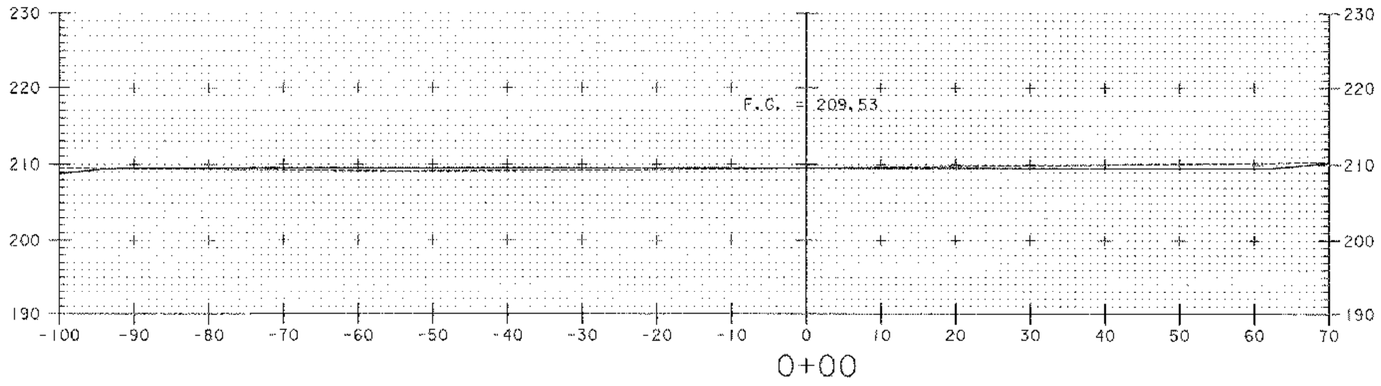
P.L.



1+00



0+50



0+00

PARKING LOT STA. 0+00.00 =
ACCESS ROAD STA. 23+42.65

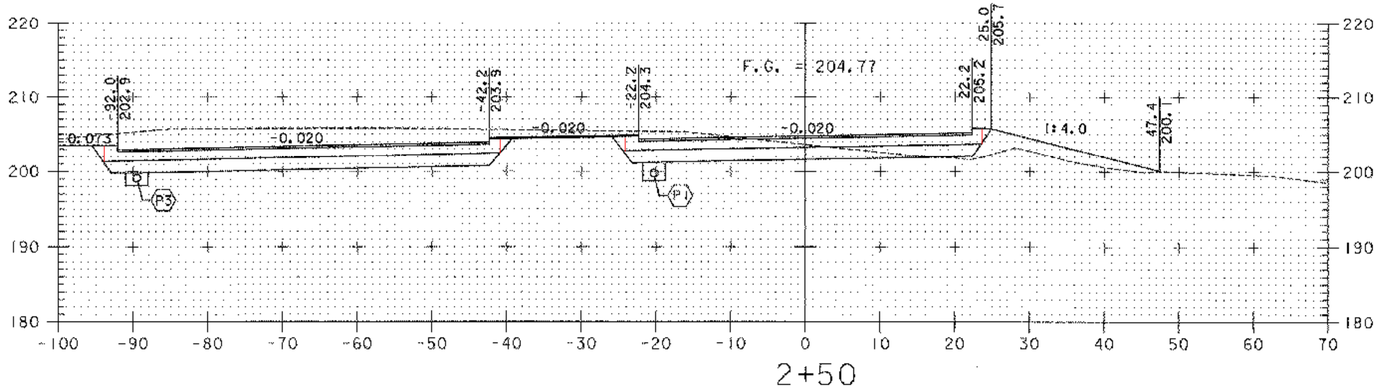
VERTICAL 0 10 20 30

HORIZONTAL 0 10 20 30

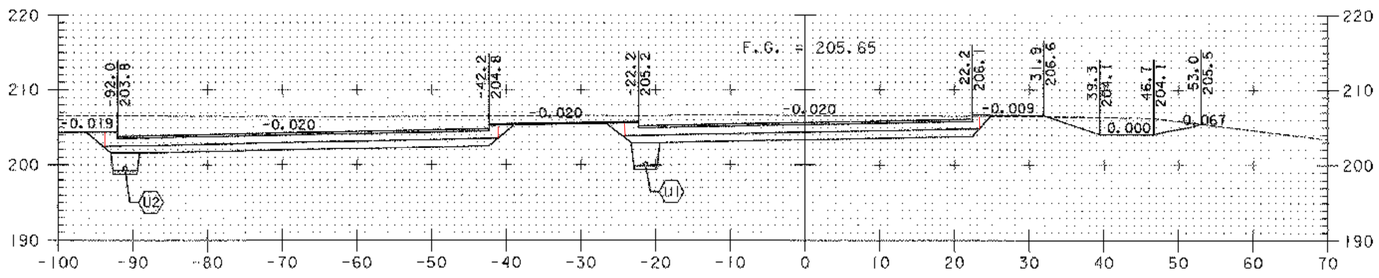
SCALE IN FEET

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EHOI(21)
FILE NAME: ...\Plot Files\41-49xsections.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
PARKING LOT CROSS SECTIONS	SHEET 41 OF 65

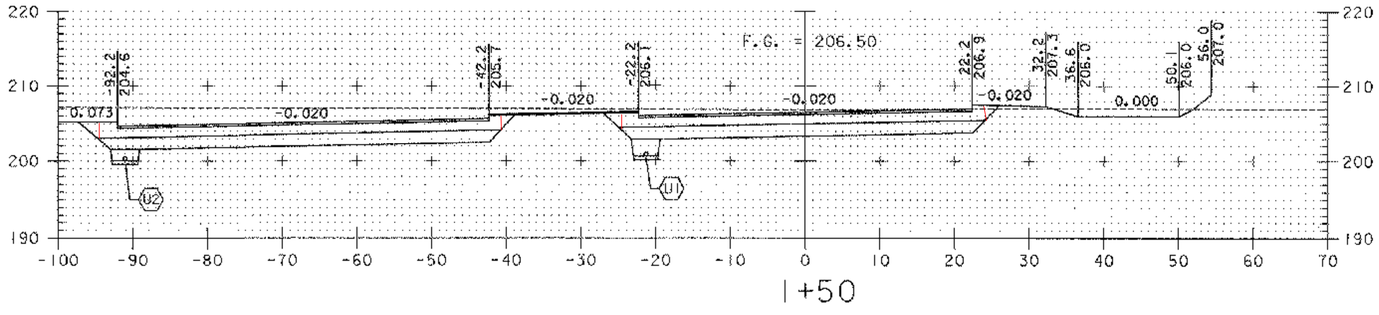
DH Dufresne-Henry



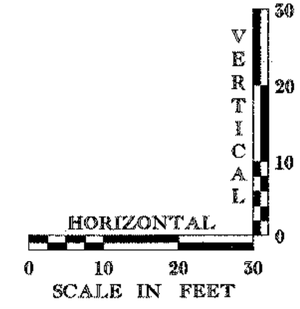
2+50



2+00

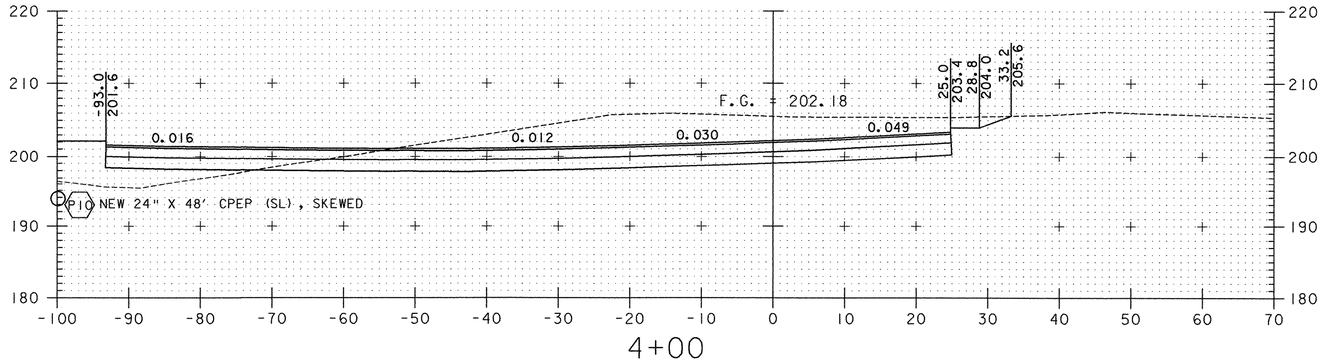


1+50

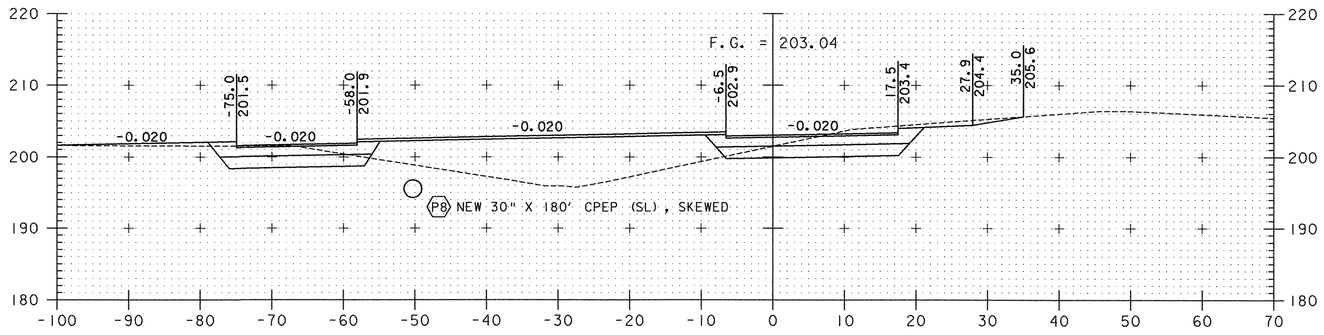


PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\41-49xsections.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLO	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
PARKING LOT CROSS SECTIONS	SHEET 42. OF 65

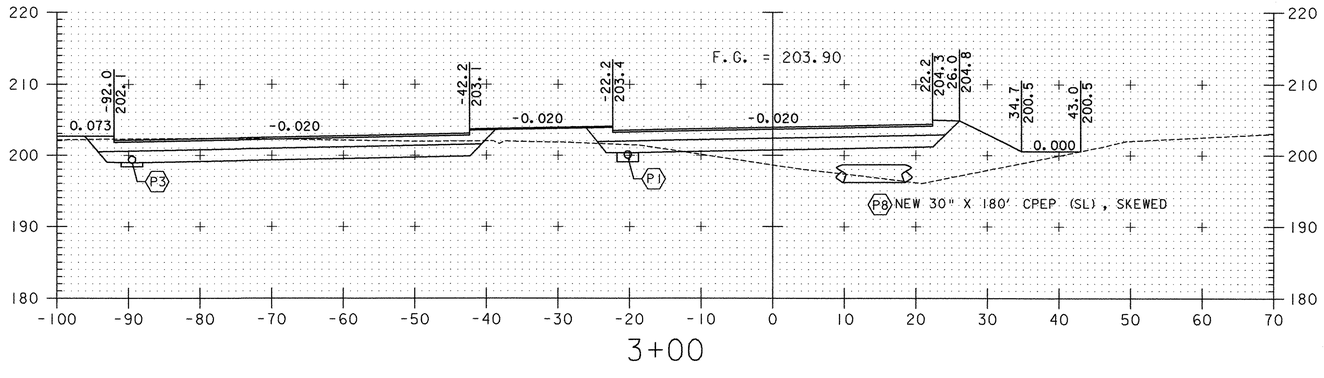
Dufresne-Henry



4+00



3+50



3+00

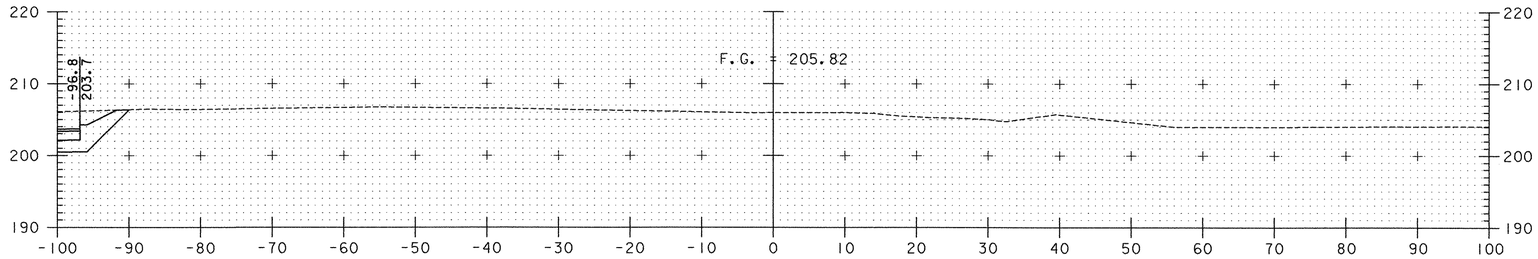
VERTICAL 0 10 20 30

HORIZONTAL 0 10 20 30

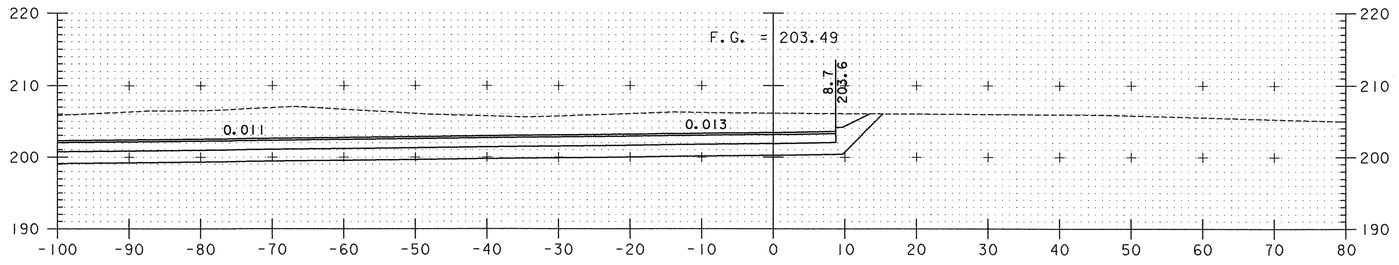
SCALE IN FEET

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\41-49xsections.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
PARKING LOT CROSS SECTIONS	SHEET 43 OF 65

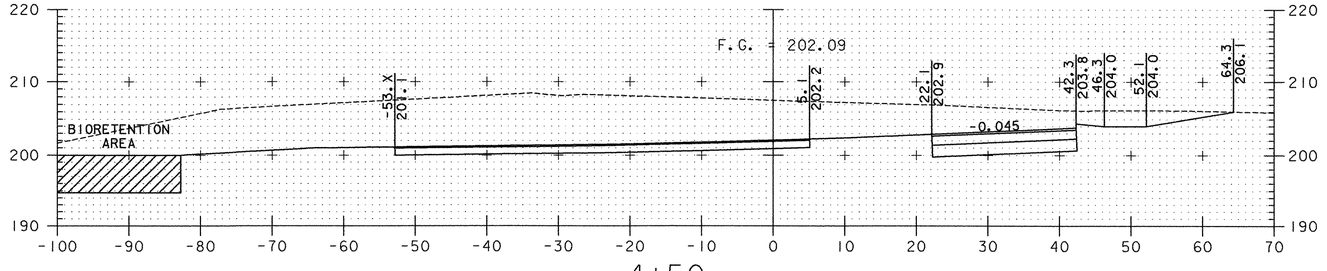
DH Dufresne-Henry



5+50



5+00



4+50

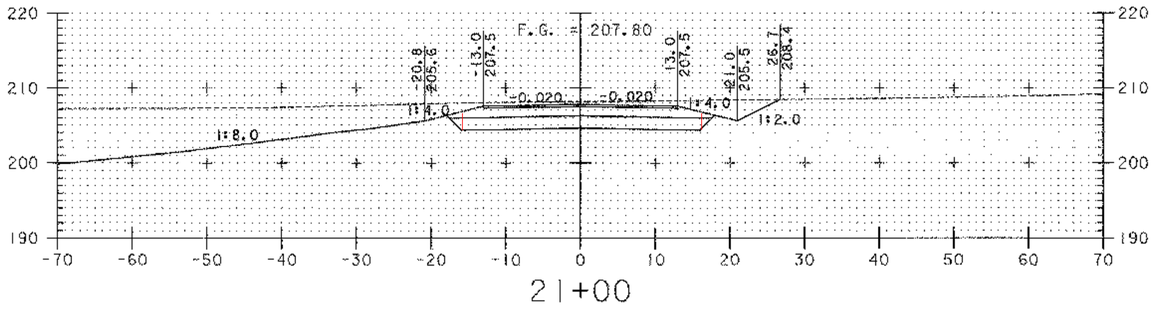
VERTICAL 0 10 20 30

HORIZONTAL 0 10 20 30

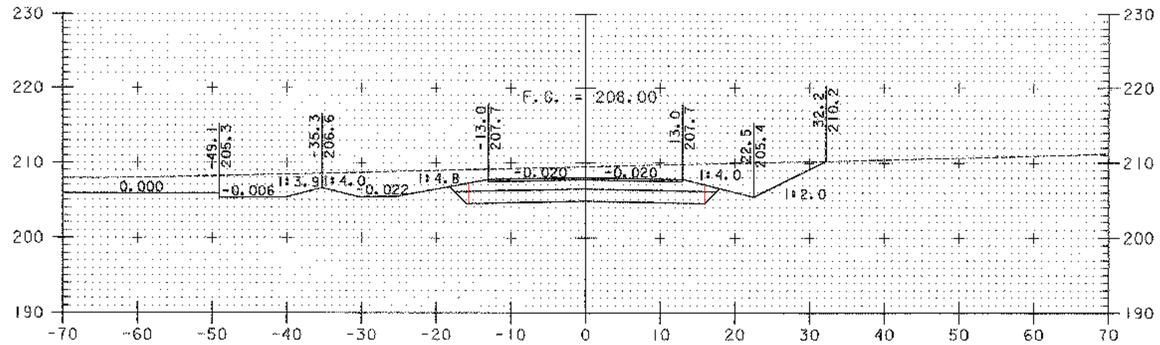
SCALE IN FEET

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\41-49xsections.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAE
PARKING LOT CROSS SECTIONS	SHEET 44 OF 65

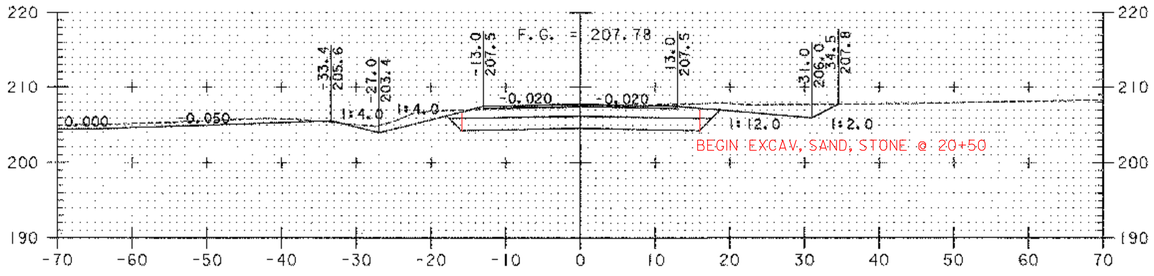
DH Dufresne-Henry



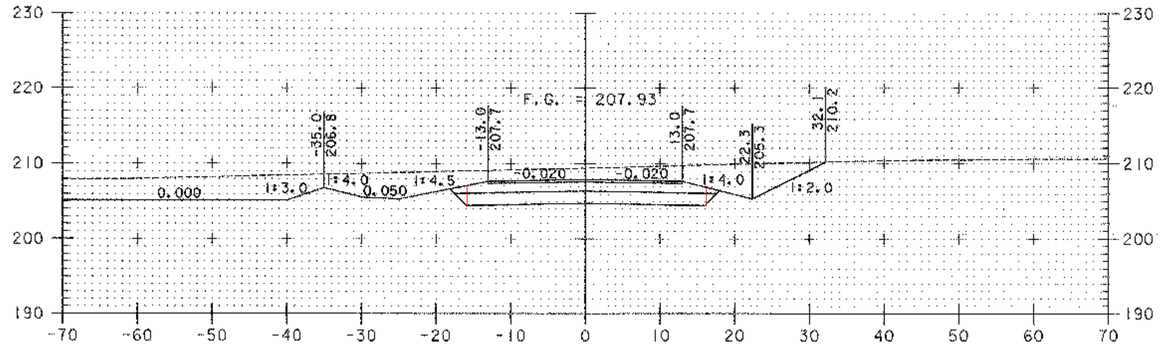
21+00



22+50

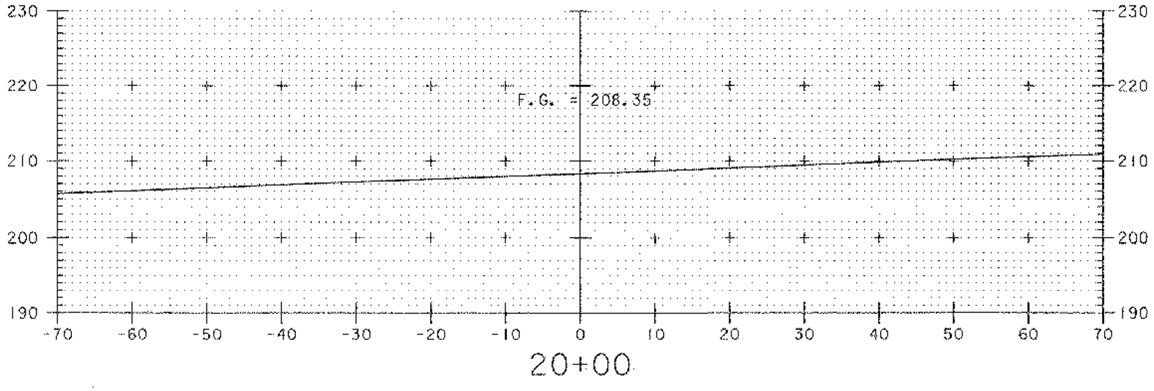


20+50



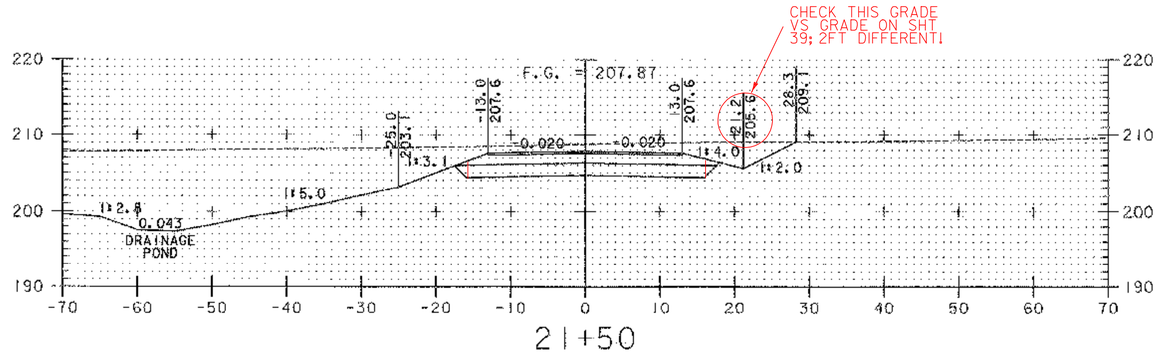
22+00

ACCESS ROAD STA. 20+20.00
BEGIN CONSTRUCTION
FERRISBURGH CMG PARK(15)SC



20+00

ACCESS ROAD STA. 20+00.00 =
VT ROUTE 22A STA. 38+05.20



21+50

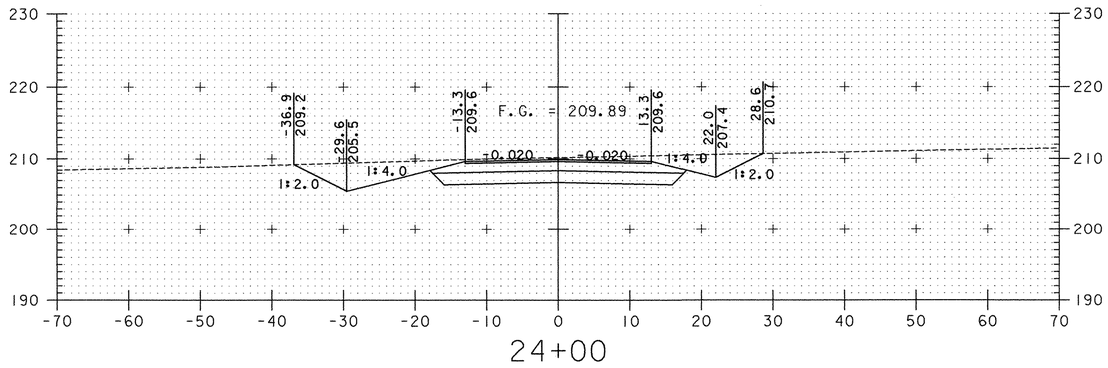
VERTICAL 0 10 20 30

HORIZONTAL 0 10 20 30

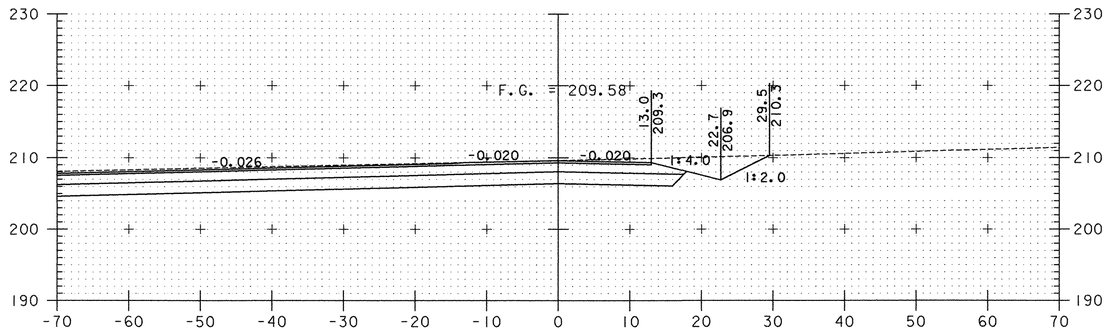
SCALE IN FEET

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EHOI(21)
FILE NAME: ...\PlotFiles\41-49xsections.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
ACCESS ROAD CROSS SECTIONS	SHEET 45 OF 65

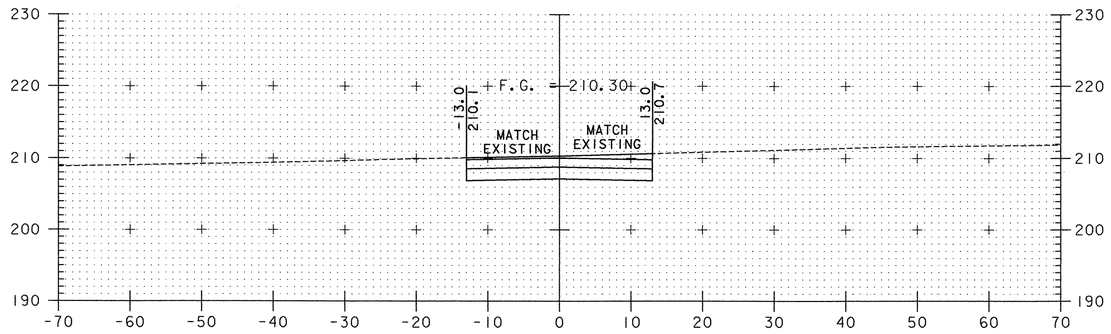
DH Dufresne-Henry



24+00

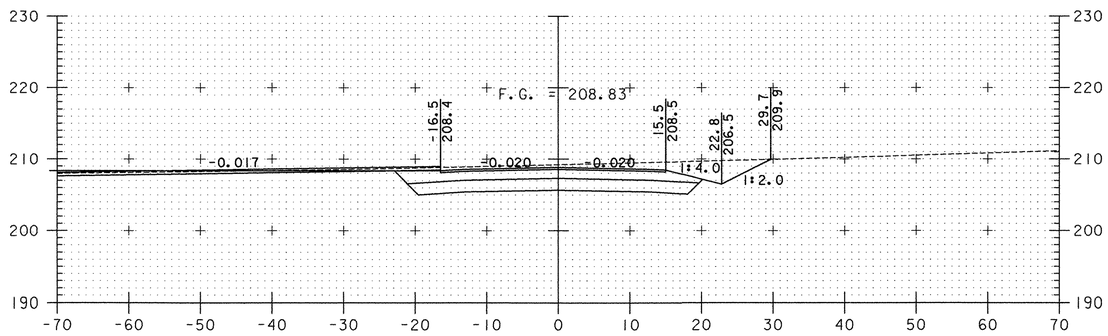


23+50

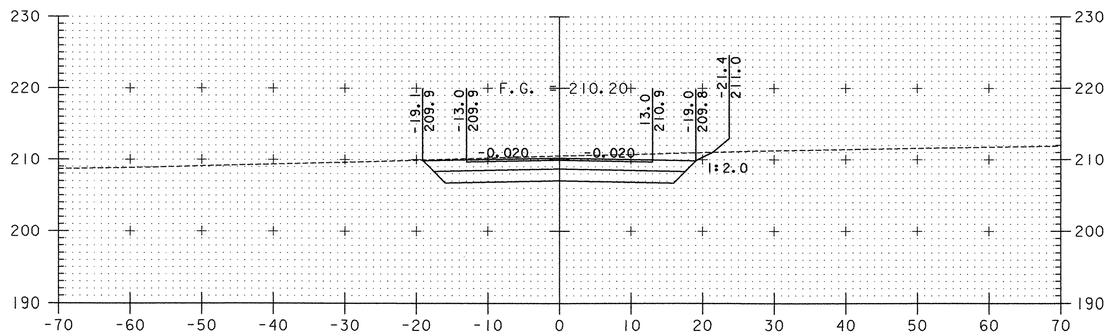


24+69

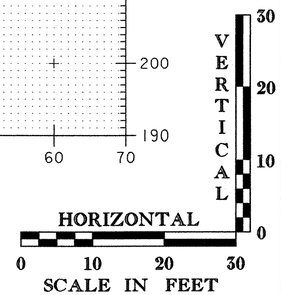
ACCESS ROAD STA. 23+42.05 =
PARKING LOT STA. 0+00.00



23+00



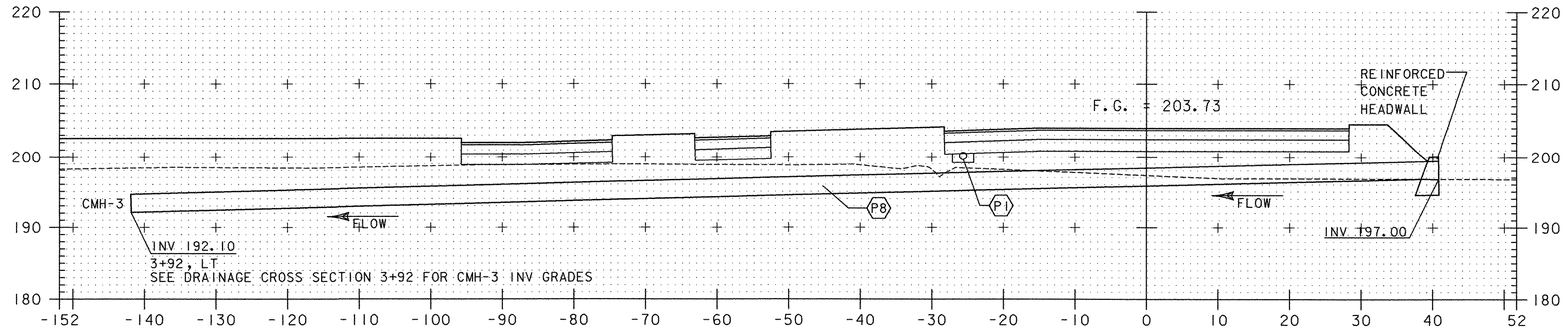
24+50



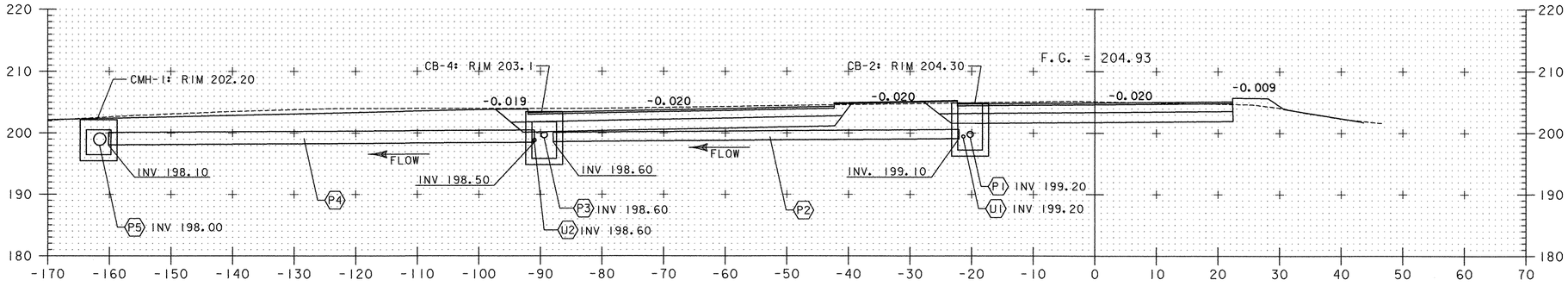
SCALE IN FEET

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\41-49xsections.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
ACCESS ROAD CROSS SECTIONS	SHEET 46 OF 65

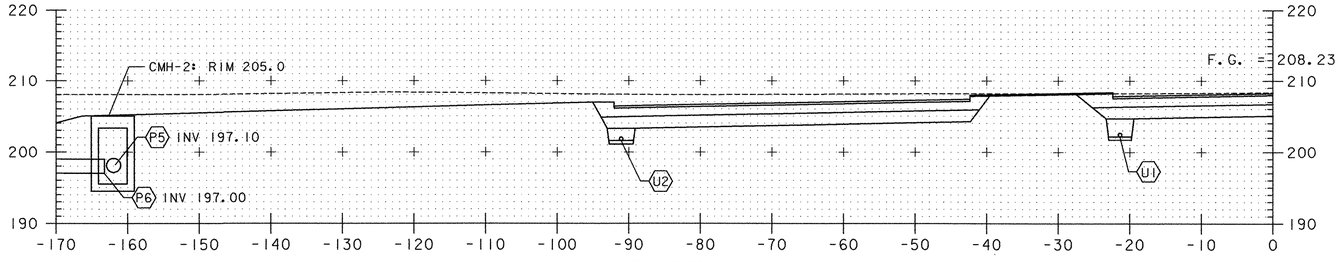
DH Dufresne-Henry



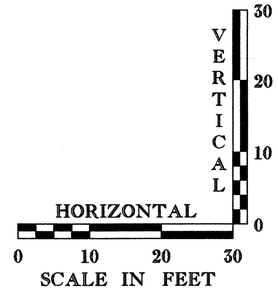
3+11 SKEWED



2+41

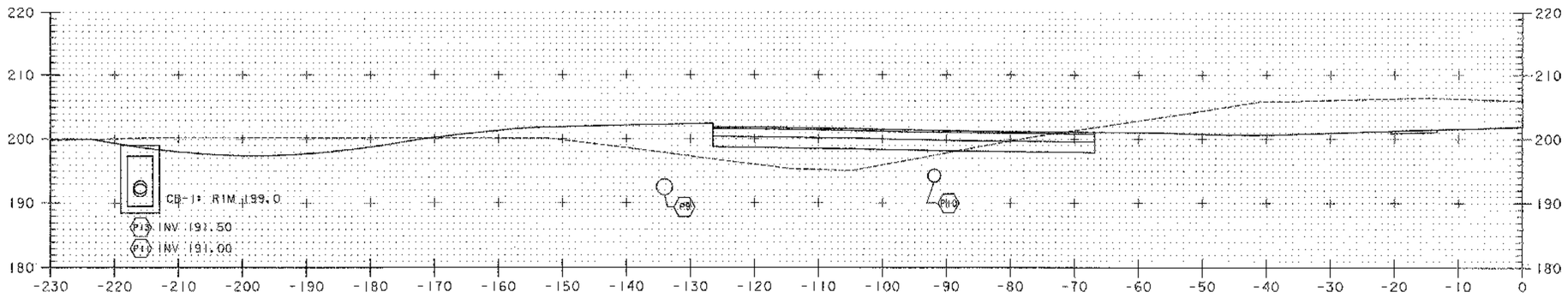


0+55

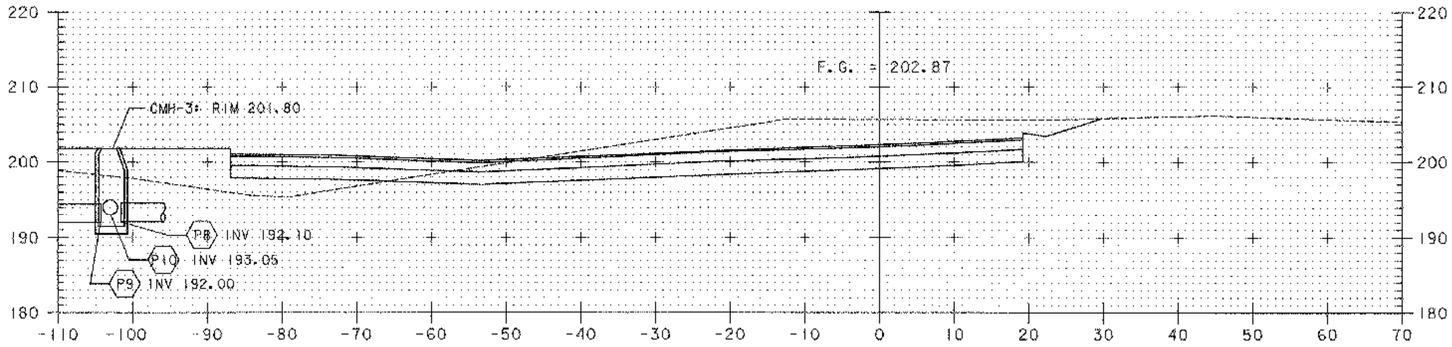


PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\41-49xsections.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
DRAINAGE CROSS SECTIONS	SHEET 47 OF 65

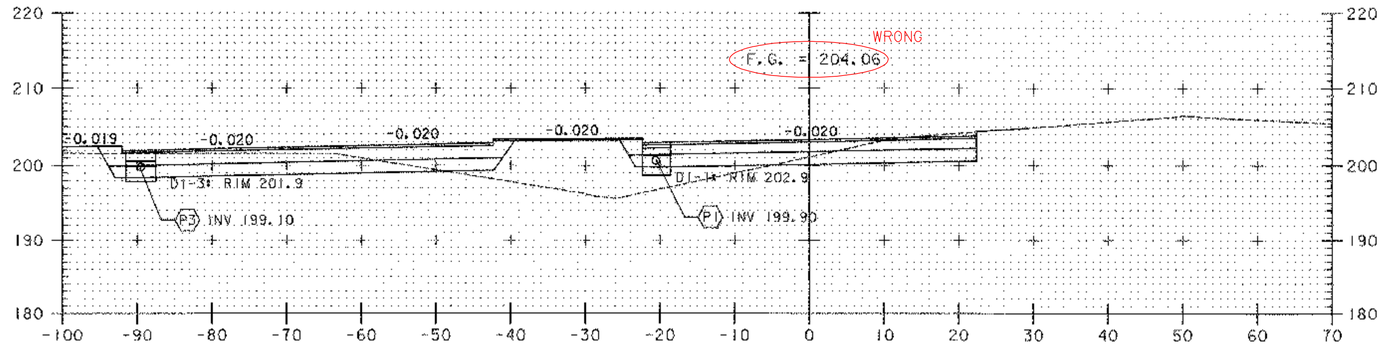
Dufresne-Henry



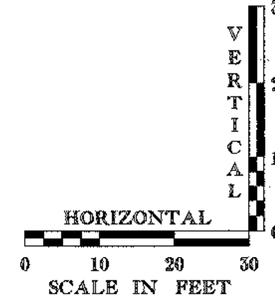
4+15



3+92

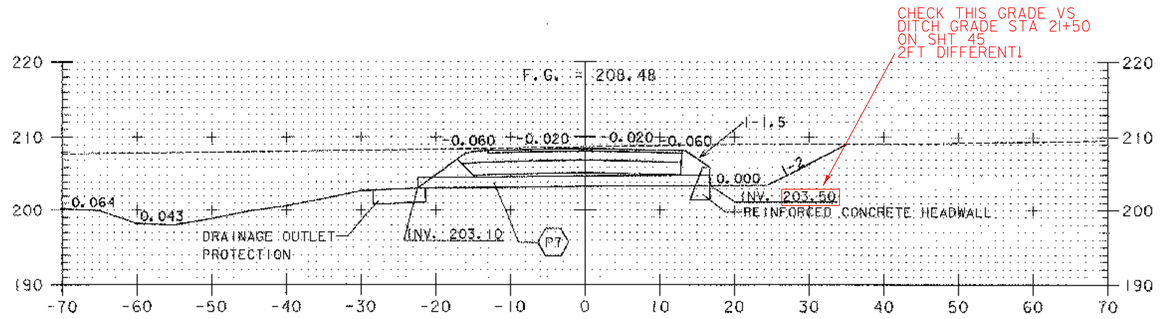


3+47

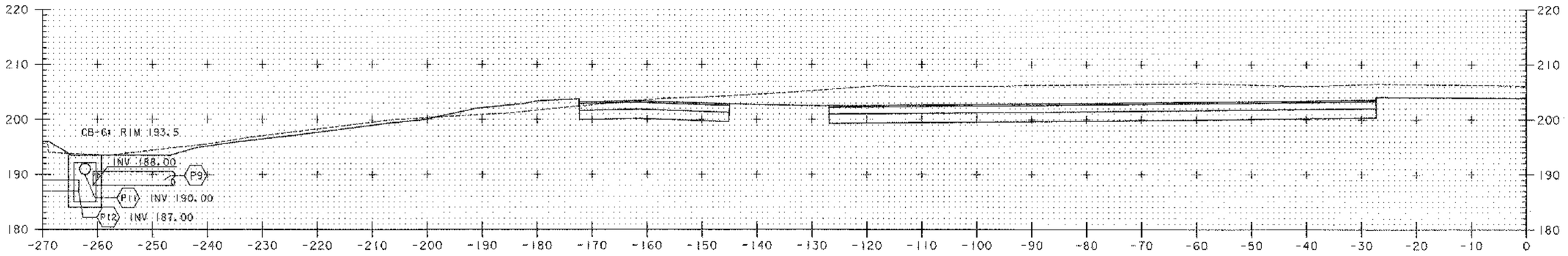


PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\Plotfiles\41-49xsections.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
DRAINAGE CROSS SECTIONS	SHEET 48 OF 65

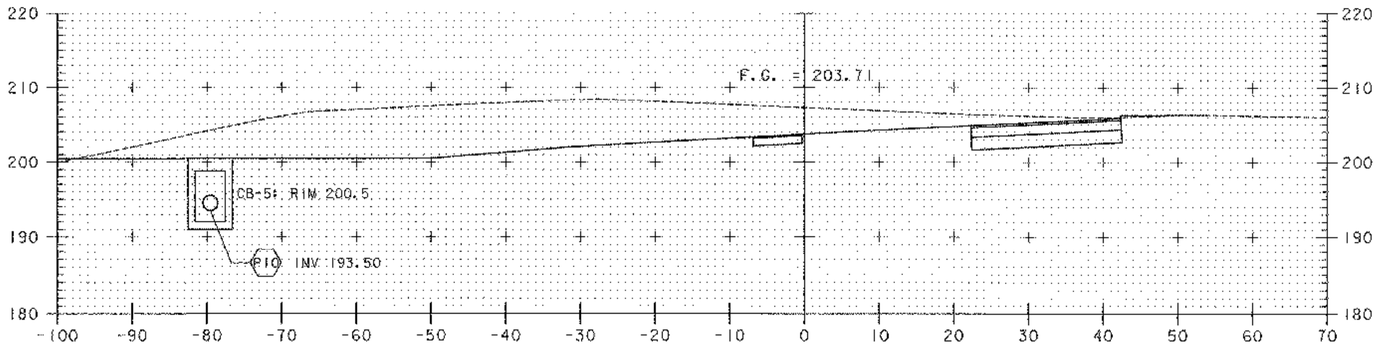
DH Dufresne-Henry



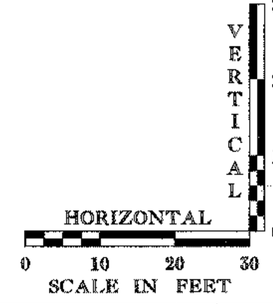
21+46



5+14



4+39

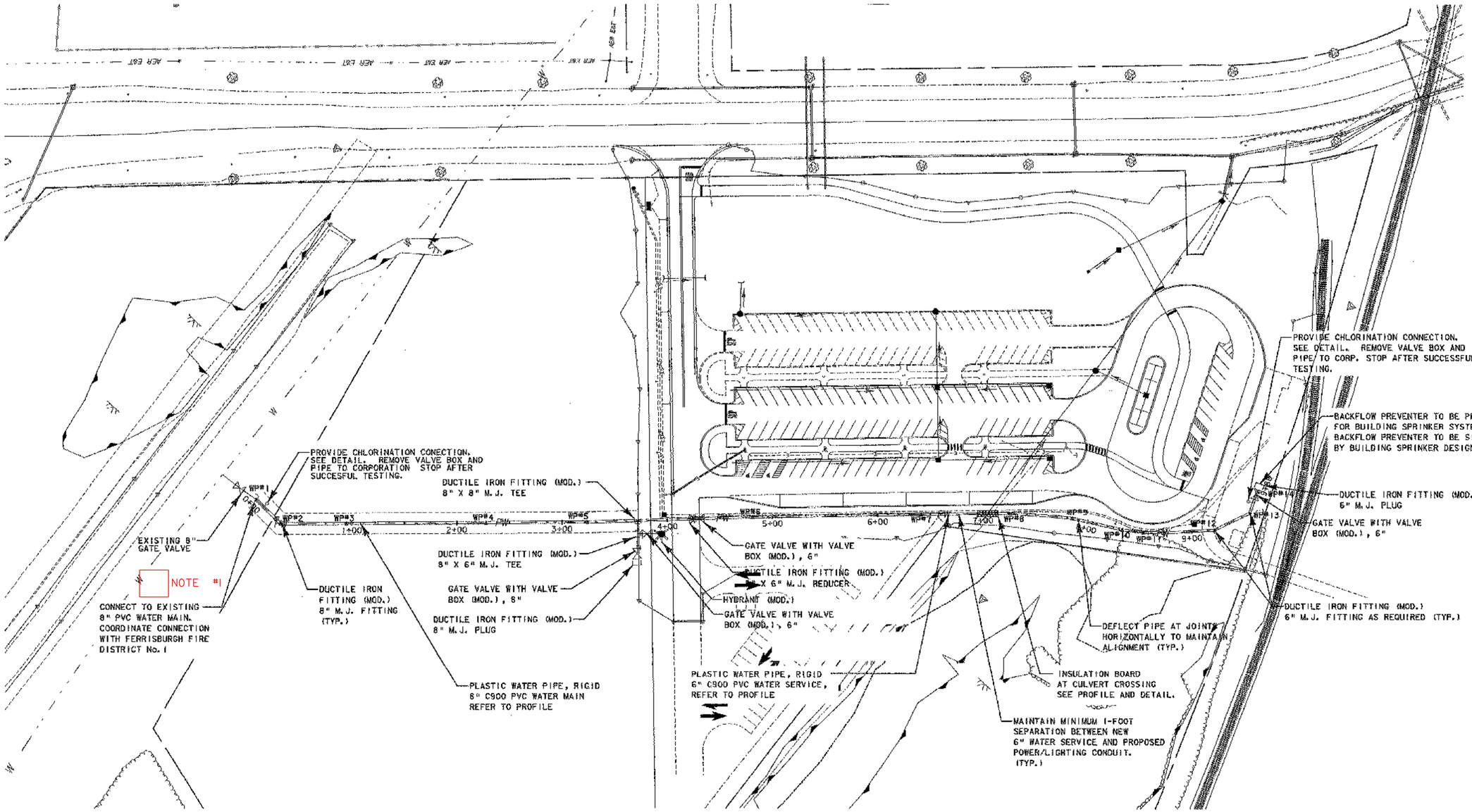


PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\41-49xsections.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
DRAINAGE CROSS SECTIONS	SHEET 49 OF 65

DH Dufresne-Henry

VT STATE PLANE GRID

NOTE #1: UNABLE TO LOCATE ALLEGED STUB AS DRAWN. STANTEC PROVIDED ADD'L INFO ON 10/23/06 TO LOOK 158.2FT TO THE NORTH OF DESIGN LOCATION. AT THAT APPROX. LOCATION THERE SEEMS TO BE AN AIR BLOW OFF. DRN 10/24/06



CONTACT FOR FERRISBURGH WATER DISTRICT #1, BOB McNARY, TEL. NO. 877-3218

0 50 100
SCALE IN FEET

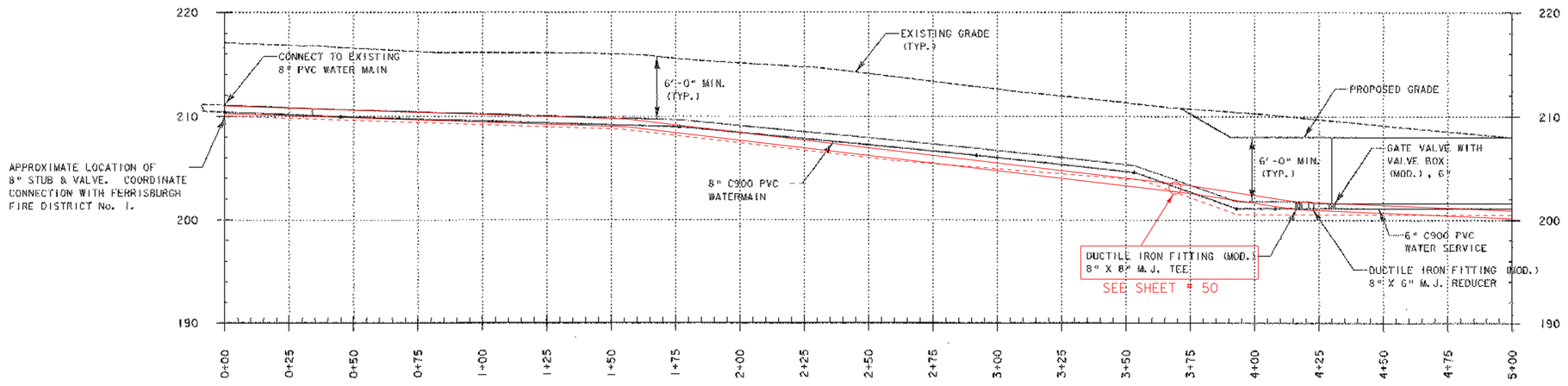
NOTE: FOR WATER LINE LAYOUT POINT INFORMATION, SEE WATER DETAILS 1.

Dufresne-Henry

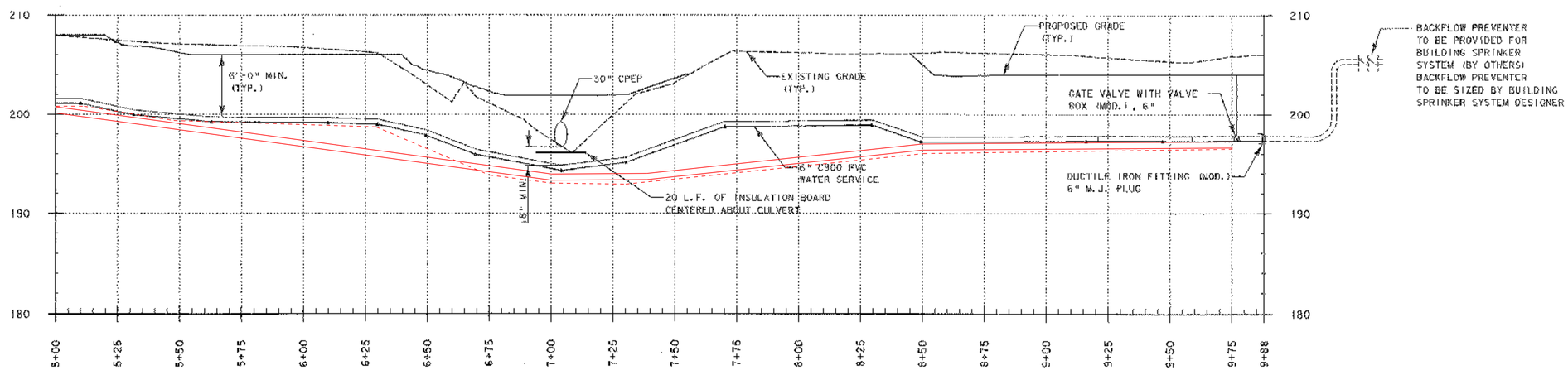
PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EHOI(2I)

FILE NAME: ...\Highway\PlotFiles\50water.p PLOT DATE: 5/9/2006
PROJECT LEADER: WLD DRAWN BY: JSK
DESIGNED BY: BFR CHECKED BY: JTM
WATER LINE PLAN SHEET 50 OF 65

WATERLINE PROFILE STA.=0+00 TO STA.=5+00



WATERLINE PROFILE STA.=5+00 TO STA.=9+88



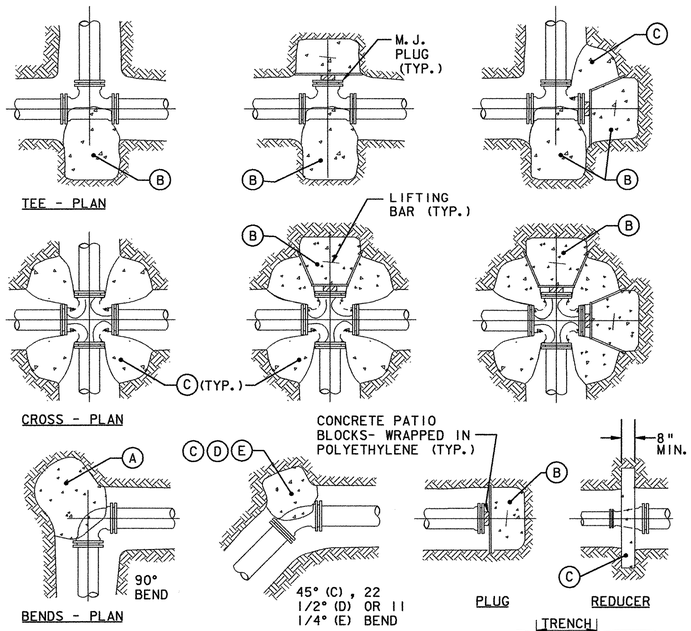
VERTICAL 0 5 10 15

HORIZONTAL 0 20 40 60

SCALE IN FEET

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EHOI(21)
FILE NAME: ...\PlotFiles\5lwaterprof.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: JSK
DESIGNED BY: BFR	CHECKED BY: JTM
WATER LINE PROFILES	SHEET 51 OF 65

DH Dufresne-Henry



THRUST BLOCK DETAILS

NOT TO SCALE

THRUST BLOCK SCHEDULE SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL			
REACTION TYPE		PIPE SIZE 6"	PIPE SIZE 8"
TEST PRESSURE = 100 PSIG	Ⓐ	5.5	9.5
	Ⓑ	4.0	6.5
	Ⓒ	3.0	5.0
	Ⓓ	1.5	2.5
	Ⓔ	0.8	1.3
OTHER TEST PRESSURES FOR THE ABOVE REACTIONS	SQUARE FEET OF CONCRETE THRUST BLOCKING FOR OTHER TEST PRESSURES IS DIRECTLY PROPORTIONAL TO THE ABOVE TABLE. FOR INSTANCE, AT 200 PSI TEST PRESSURE FOR ABOVE NUMBERS DOUBLE. TEST PRESSURE SHALL BE 150 PSI FOR FERRISBURGH PARK AND RIDE WATER SUPPLY.		

NOTES:

1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.

2. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.

3. PLACE CONCRETE PATIO BLOCKS IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK.

4. REQUIREMENTS OF THE ABOVE TABLE ASSUME 1000 LBS/SF AND MAY BE VARIED BY THE ENGINEER TO MEET OTHER CONDITIONS ENCOUNTERED.

5. MEGALUG RETAINER GLANDS ARE REQUIRED FOR ALL MECHANICAL JOINTS. THESE GLANDS DO NOT REDUCE THE REQUIREMENTS FOR THRUST RESTRAINT.

6. ALL FITTINGS SHALL BE WRAPPED IN POLYETHYLENE PRIOR TO INSTALLATION OF CONCRETE RESTRAINT.

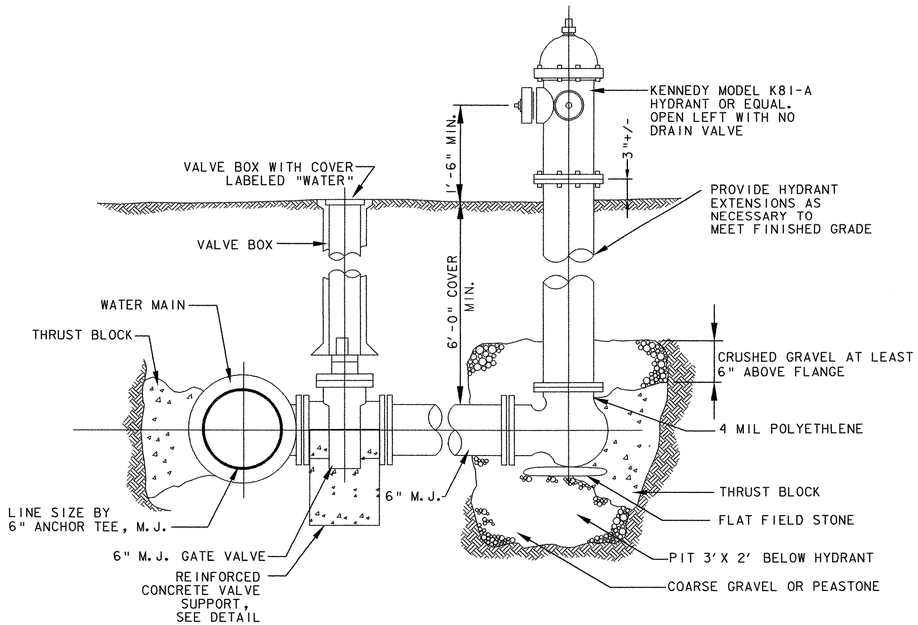
7. THREADED ROD SHALL BE ANSI A242 FY50 PIPE RESTRAINT NUTS TO MATCH AWWA C111. THREADED RODS AND NUTS TO BE FIELD COATED WITH BITUMINOUS PAINT.

8. THRUST RESTRAINT IS REQUIRED FOR ALL TEES, BENDS, REDUCERS, CAPS, PLUGS, OR CROSSES.

9. INSTALL LIFT HOOKS INTO THRUST BLOCKS AT END CAPS AND PLUGS.

THRUST BLOCK NOTES

PAID FOR UNDER ITEM 501.25 - CONCRETE, CLASS B



HYDRANT ASSEMBLY DETAIL

NOT TO SCALE

WATER LINE LAYOUT POINTS

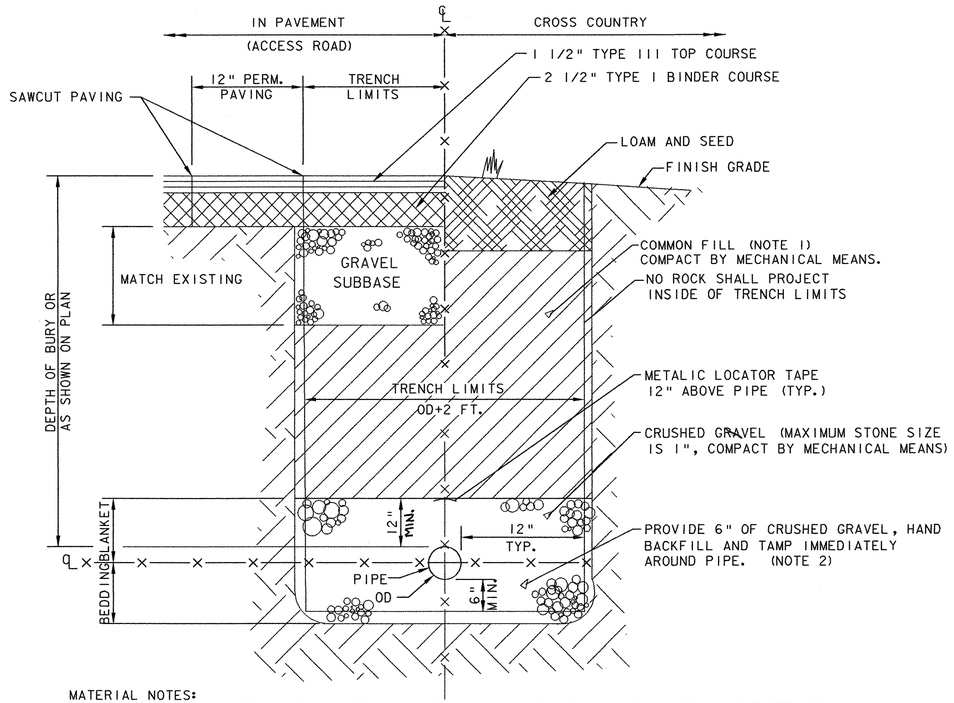
POINT #	N	E	STA.
WP#1	14316.77	44587.36	0+00.00
WP#2	14316.63	44554.68	0+32.59
WP#3	14272.37	44510.79	0+94.93
WP#4	14178.12	44417.33	2+27.66
WP#5	14109.80	44349.58	3+23.88
WP#6	13995.44	44242.23	4+80.72
WP#7	13880.07	44130.60	6+41.26
WP#8	13820.04	44072.38	7+24.89
WP#9	13781.18	44026.73	7+84.85
WP#10	13755.02	43985.40	8+33.75
WP#11	13742.67	43959.67	8+53.75
WP#12	13693.43	43923.24	9+21.49
WP#13	13658.39	43910.93	9+58.66
WP#14	13638.30	43920.58	9+81.01

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\52waterdetl.ptf
PROJECT LEADER: MLD
DESIGNED BY: BFR
WATER LINE DETAILS 1

PLOT DATE: 4/19/2006
DRAWN BY: JSK
CHECKED BY: JTM
SHEET 52 OF 65



MATERIAL NOTES:
1. COMMON FILL - MATERIAL EXCAVATED ON SITE WHICH IS FRIABLE, NATURAL SOIL COMPOSED OF GRAVEL, SAND, OR SILTY OR CLAYEY GRAVEL AND SAND; FREE FROM DEBRIS, CONCRETE OR OTHER RUBBLE, ORGANIC MATTER, MUCK, PEAT, EXCAVATED ROCK AND BOULDERS OF 6 INCHES IN MAXIMUM DIMENSION OR GREATER.

2. CRUSHED GRAVEL: CLEAN HARD CRUSHED GRAVEL; FREE FROM SILT, TOPSOIL, CLAY, AND ORGANIC MATTER, UNIFORMLY GRADED FROM COARSE TO FINE WITHIN THE LIMITS SPECIFIED IN ASTM C136. PAID FOR UNDER ITEM 301.26 SUBBASE OF CRUSHED GRAVEL (FINE GRADED).

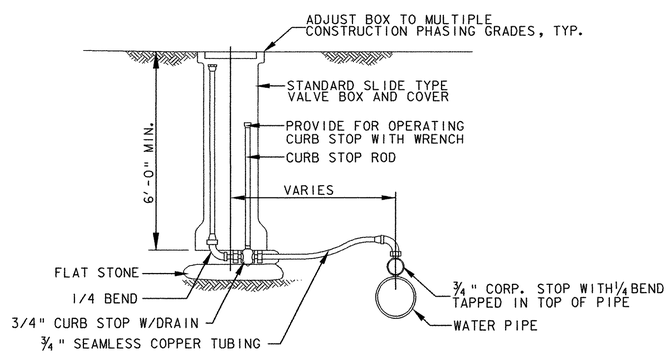
ROAD SURFACE RESTORATION NOTES:
1. WIDTH OF TRENCH AT STREET LEVEL SHALL BE KEPT AS NARROW AS POSSIBLE.

2. PAVEMENT UNDER THE ITEMS OF WORK SPECIFIED IN THE CONTRACT DOCUMENTS ARE TO THE LINES SHOWN.

3. DEPTHS OF GRAVEL SHOWN ARE MINIMUM COMPACTED THICKNESSES.

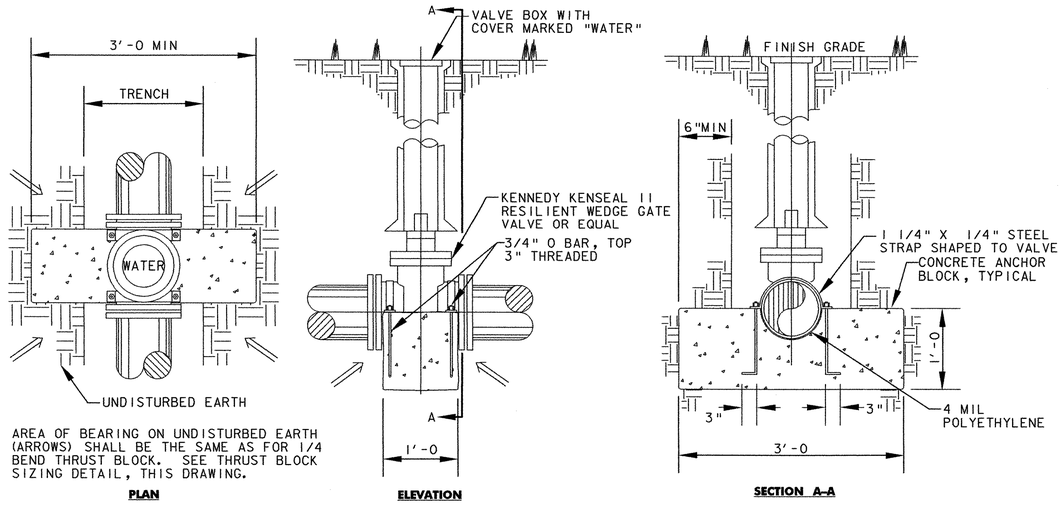
TYPICAL PVC TRENCH DETAIL

NOT TO SCALE



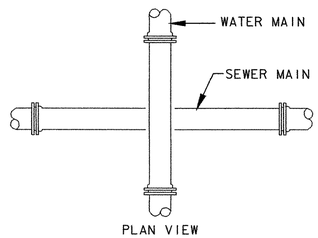
TYPICAL INSTALLATION-FOR TEMP. CHLORINATION INJECTION

NOT TO SCALE



VALVE DETAILS

NOT TO SCALE



CONSTRUCTION RESTRICTIONS

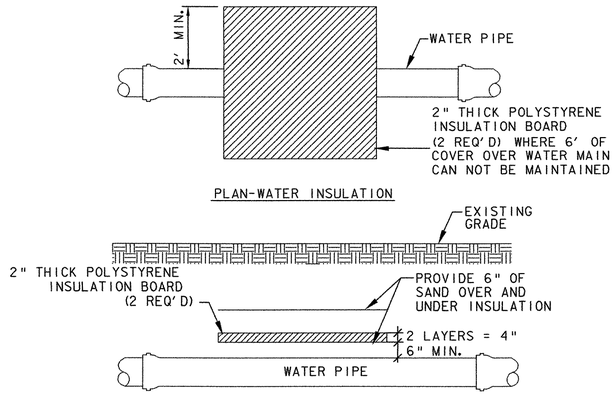
1. IN ALL NEW CONSTRUCTION, DIMENSION "A" SHALL NEVER BE LESS THAN 18 INCHES FOR WATERLINE AND SANITARY SEWER CROSSING, AND NEVER LESS THAN 12 INCHES FOR WATERLINE AND STORM DRAIN CROSSING.

2. WITH ALL NEW CONSTRUCTION, THE CROSSING SHALL BE ARRANGED AS SHOWN IN THE DIAGRAM, SO THAT THE SEWER OR STORM JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.

3. IF THE WATER MAIN MUST PASS BENEATH THE SEWER OR STORM DRAIN IN NEW CONSTRUCTION, THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER OR STORM. THE FIRST SEWER PIPE JOINT ON EACH SIDE OF THE WATER MAIN SHALL BE CONCRETE ENCASED.

WATER AND SEWER CROSSING DETAIL

NOT TO SCALE



RIGID BOARD INSULATION DETAIL

NOT TO SCALE

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\53waterdet2.ptf	PLOT DATE: 5/10/2006
PROJECT LEADER: MLD	DRAWN BY: JSK
DESIGNED BY: BFR	CHECKED BY: JTM
WATER LINE DETAILS 2	SHEET 53 OF 65

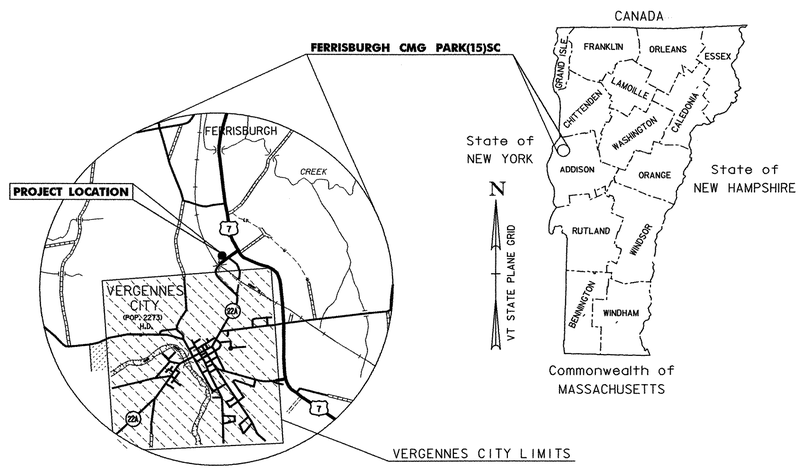
Dufresne-Henry

STATE OF VERMONT
AGENCY OF TRANSPORTATION

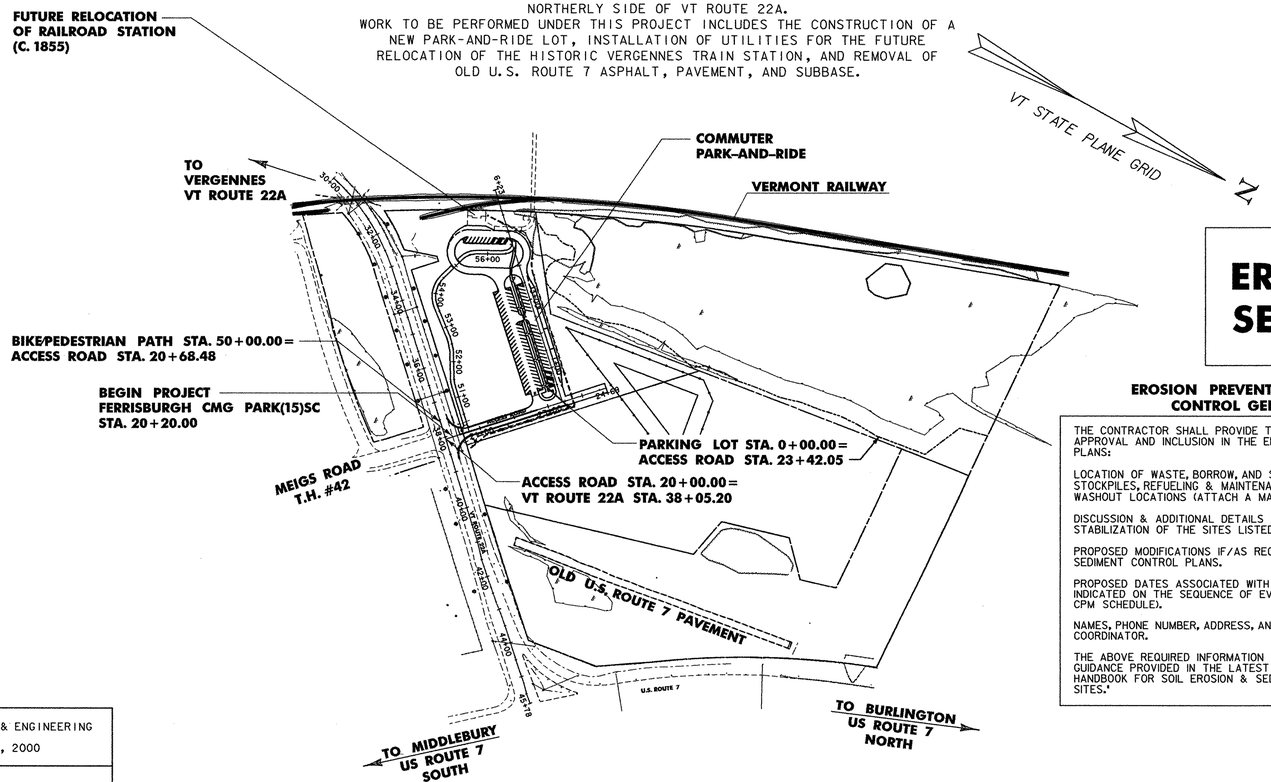
PROPOSED IMPROVEMENT
TOWN OF FERRISBURGH
COUNTY OF ADDISON
COMMUTER PARK-AND-RIDE LOT

THIS PROJECT IS LOCATED ON VT ROUTE 22A IN THE TOWN OF FERRISBURGH, APPROXIMATELY 950' SOUTHWEST OF THE U.S. ROUTE 7 AND VT ROUTE 22A INTERSECTION, ON THE NORTHERLY SIDE OF VT ROUTE 22A.

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE CONSTRUCTION OF A NEW PARK-AND-RIDE LOT, INSTALLATION OF UTILITIES FOR THE FUTURE RELOCATION OF THE HISTORIC VERGENNES TRAIN STATION, AND REMOVAL OF OLD U.S. ROUTE 7 ASPHALT, PAVEMENT, AND SUBBASE.



TRAFFIC DATA (VT ROUTE 22A)		
	2002	2022
ADT	6800	9000
DHV	870	1100
ADTT	670	810
%T	6	6
%D	55	55
ESALS (2002-2022) = 6,988,000		
ESALS (2002-2042) = 17,572,000		
DESIGN SPEED (VT ROUTE 22A) = 30 MPH		
POSTED SPEED (VT ROUTE 22A) = 30 MPH		



EROSION PREVENTION & SEDIMENT CONTROL PLANS

EROSION PREVENTION & SEDIMENT CONTROL GENERAL NOTES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION FOR APPROVAL AND INCLUSION IN THE EROSION & SEDIMENT CONTROL PLANS:

LOCATION OF WASTE, BORROW, AND STAGING AREAS, MATERIAL STOCKPILES, REFUELING & MAINTENANCE AREAS, AND CONCRETE TRUCK WASHOUT LOCATIONS (ATTACH A MAP IF NECESSARY).

DISCUSSION & ADDITIONAL DETAILS NEEDED FOR PROTECTION AND STABILIZATION OF THE SITES LISTED ABOVE.

PROPOSED MODIFICATIONS IF/AS REQUIRED TO THESE EROSION & SEDIMENT CONTROL PLANS.

PROPOSED DATES ASSOCIATED WITH PROJECT MILESTONES AS INDICATED ON THE SEQUENCE OF EVENTS (CONSISTENT WITH PROJECT CPM SCHEDULE).

NAMES, PHONE NUMBER, ADDRESS, AND QUALIFICATIONS OF "ON-SITE" COORDINATOR.

THE ABOVE REQUIRED INFORMATION SHALL BE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE LATEST REVISION OF THE "VERMONT HANDBOOK FOR SOIL EROSION & SEDIMENT CONTROL ON CONSTRUCTION SITES."

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 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

CONVENTIONAL SYMBOLS

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 (SR SR SR)
TOP OF CUT
TOE OF SLOPE

SURVEYED BY : VT SURVEY & ENGINEERING
SURVEYED DATE : MAY, 2000

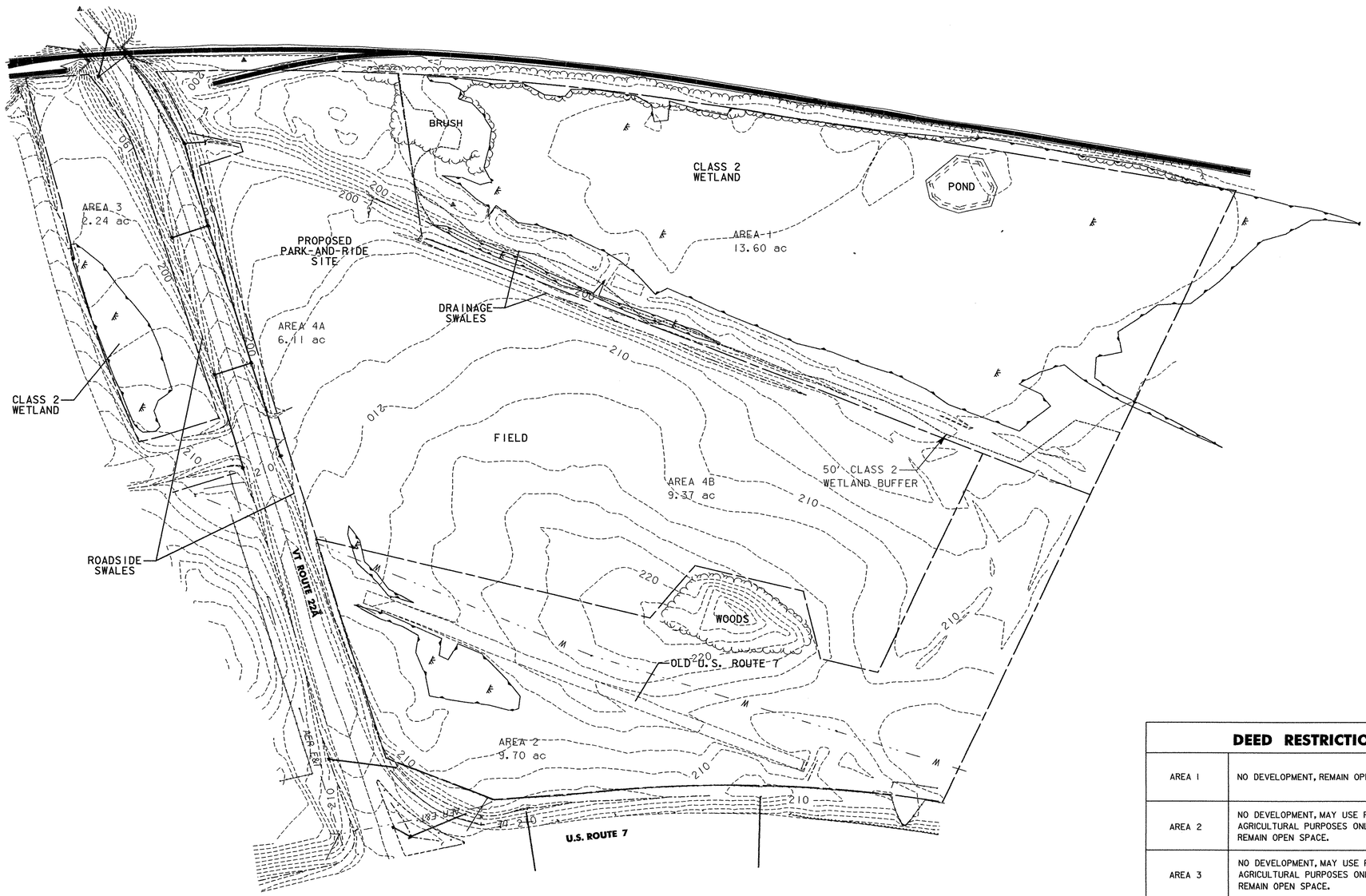
DATUM
VERTICAL NAVD88
HORIZONTAL NAD83 (1992)

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\54escptitle.ptf
PROJECT LEADER: WLD
DESIGNED BY: CSP/GGG
TITLE SHEET

PLOT DATE: 4/19/2006
DRAWN BY: MBL
CHECKED BY: GAS
SHEET 54 OF 65



DEED RESTRICTIONS		ACRES	% OF TOTAL
AREA 1	NO DEVELOPMENT, REMAIN OPEN SPACE.	13.60	33.2%
AREA 2	NO DEVELOPMENT, MAY USE FOR AGRICULTURAL PURPOSES ONLY. REMAIN OPEN SPACE.	9.70	23.6%
AREA 3	NO DEVELOPMENT, MAY USE FOR AGRICULTURAL PURPOSES ONLY. REMAIN OPEN SPACE.	2.24	5.5%
AREA 4A	VTRANS USE FOR PARK-AND-RIDE & TRAIN STATION.	6.11	14.9%
AREA 4B	AVAILABLE REMAINDER TO TOWN OF FERRISBURGH. ZONING ALLOWS A MAXIMUM OF 4.5 ACRES FOR LIGHT INDUSTRIAL USE. NO RETAIL ALLOWED.	9.37	22.8%
	TOTAL	41.02	

LEGEND

- EXISTING RAILROAD TRACKS
- EXISTING EDGE OF ROAD
- EXISTING DRAINAGE DITCH
- EXISTING FENCE
- AER E&T — EXISTING UTILITIES
- EXISTING GUARDRAIL
- EXISTING WETLANDS
- EXISTING WOODS
- EXISTING TREE
- DEED RESTRICTION BOUNDARIES
- PW — PROPOSED WATER LINE
- PUE — PROPOSED UNDERGROUND ELECTRIC

NOTES:

1. SOILS ON-SITE CONSIST SOLELY OF VERGENNES CLAY. (ERODABILITY RATING, K=0.49) VERGENNES CLAY IS CONSIDERED A HIGHLY ERODIBLE SOIL TYPE.
2. ALL STORMWATER RUNOFF DURING CONSTRUCTION WILL BE COLLECTED IN AN EXISTING CLOSED DRAINAGE SYSTEM AND ROADSIDE SWALES.

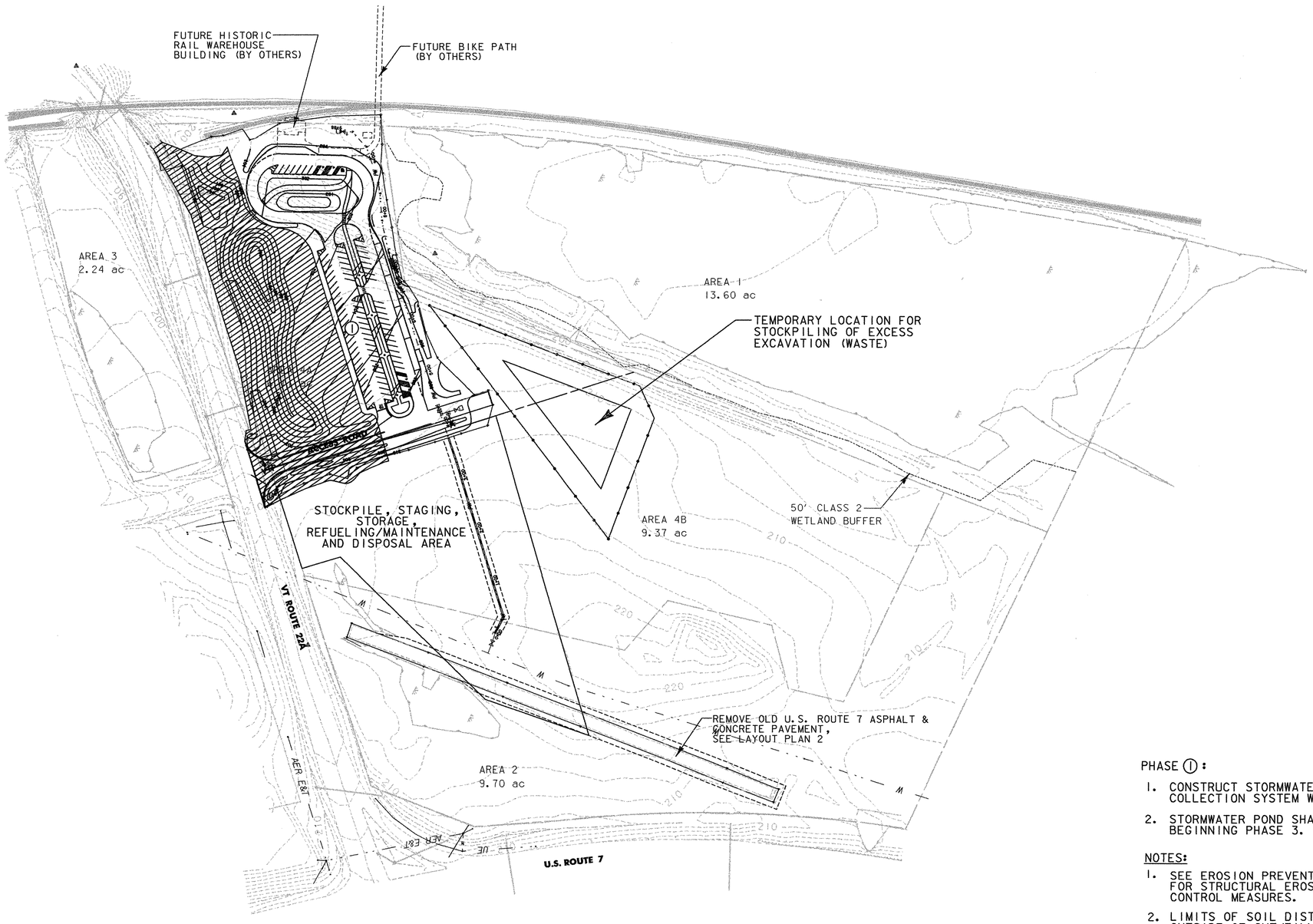
0 100 200
SCALE

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EHOI(21)

FILE NAME: ...\55existconditions.ptf
PROJECT LEADER: WLD
DESIGNED BY: CSP/GGG
EXISTING CONDITIONS PLAN

PLOT DATE: 4/19/2006
DRAWN BY: MBL
CHECKED BY: GAS
SHEET 55 OF 65



PHASE ①:

1. CONSTRUCT STORMWATER POND AND STORMWATER COLLECTION SYSTEM WITHIN CONFINES OF PHASE 2.
2. STORMWATER POND SHALL BE OPERATIONAL PRIOR TO BEGINNING PHASE 3.

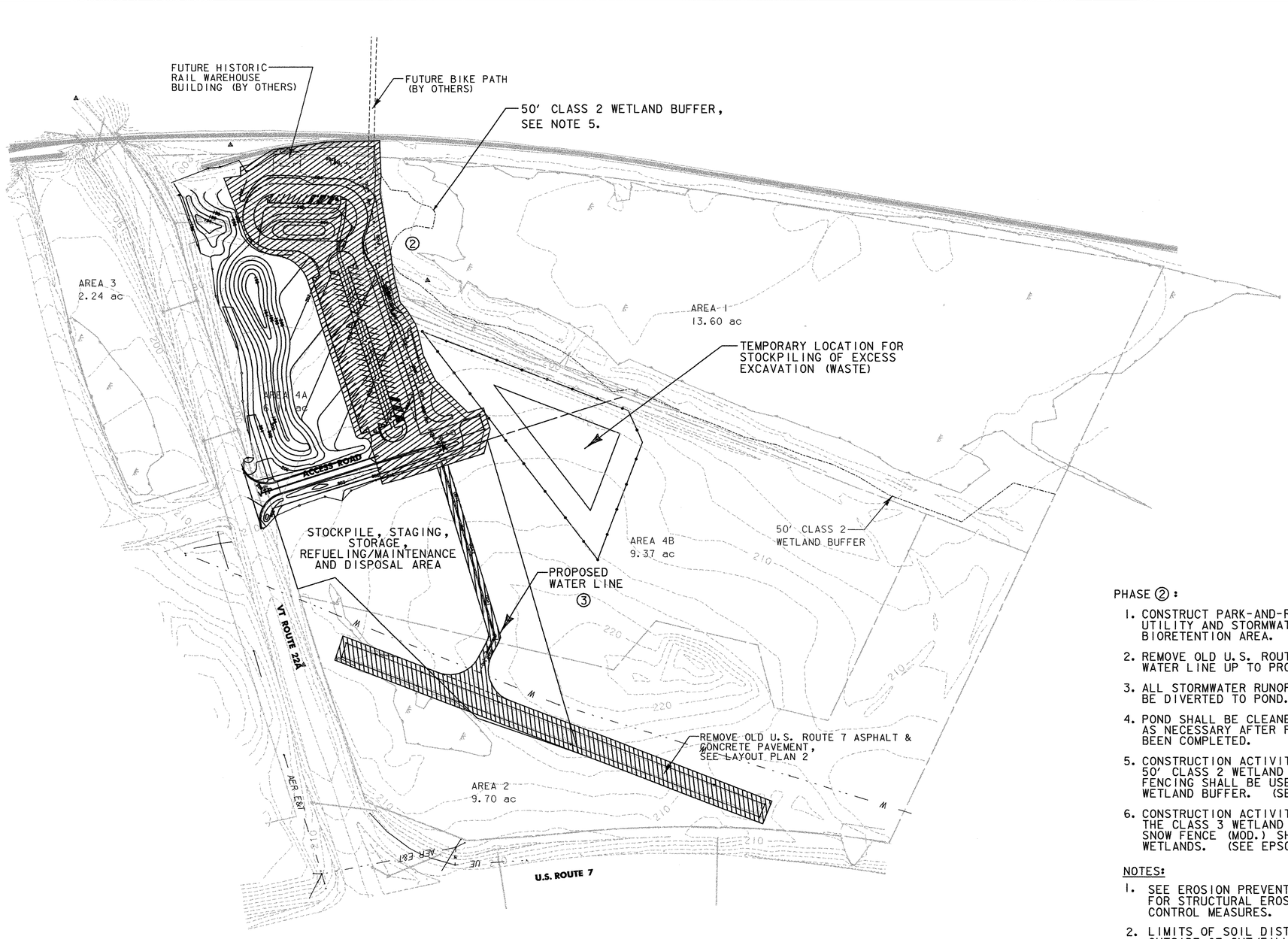
NOTES:

1. SEE EROSION PREVENTION AND SEDIMENT CONTROL PLANS FOR STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES.
2. LIMITS OF SOIL DISTURBANCE APPROXIMATED TO BE 10' OUTSIDE OF CUT/FILL LIMITS, EXCEPT NEAR SENSITIVE AREAS (WETLANDS, WETLAND BUFFERS).
3. LOCATION OF STAGING AREA CONSIDERED APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT LOCATION AND OBTAIN APPROVAL OF STAGING AREA LOCATION FROM VERMONT AGENCY OF NATURAL RESOURCES PRIOR TO COMMENCING CONSTRUCTION.

0 100 200
SCALE

Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\Plot Files\56phasing2.plt	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
CONSTRUCTION PHASING PLAN 1	SHEET 56 OF 65



PHASE ② :

1. CONSTRUCT PARK-AND-RIDE FACILITY, COMPLETE ALL UTILITY AND STORMWATER SYSTEM WORK INCLUDING BIORETENTION AREA.
2. REMOVE OLD U.S. ROUTE 7, AND INSTALL PROPOSED WATER LINE UP TO PROPOSED PARK-AND-RIDE SITE.
3. ALL STORMWATER RUNOFF DURING CONSTRUCTION SHALL BE DIVERTED TO POND.
4. POND SHALL BE CLEANED, INSPECTED, AND REPAIRED AS NECESSARY AFTER FINAL GRADING OF PROJECT HAS BEEN COMPLETED.
5. CONSTRUCTION ACTIVITIES SHALL OCCUR OUTSIDE 50' CLASS 2 WETLAND BUFFER. CONSTRUCTION FENCING SHALL BE USED TO DELINEATE WETLAND BUFFER. (SEE EPSC PLAN SHEET 1).
6. CONSTRUCTION ACTIVITIES SHALL OCCUR OUTSIDE OF THE CLASS 3 WETLAND WHEN REMOVING OLD U.S. ROUTE 7. SNOW FENCE (MOD.) SHALL BE USED TO DELINEATE WETLANDS. (SEE EPSC PLAN 2).

NOTES:

1. SEE EROSION PREVENTION AND SEDIMENT CONTROL PLANS FOR STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES.
2. LIMITS OF SOIL DISTURBANCE APPROXIMATED TO BE 10' OUTSIDE OF CUT/FILL LIMITS, EXCEPT NEAR SENSITIVE AREAS (WETLANDS, WETLAND BUFFERS).
3. LOCATION OF STAGING AREA CONSIDERED APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT LOCATION AND OBTAIN APPROVAL OF STAGING AREA LOCATION FROM VERMONT AGENCY OF NATURAL RESOURCES PRIOR TO COMMENCING CONSTRUCTION.

0 100 200
SCALE

Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\57phasing3.ptf	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
CONSTRUCTION PHASING PLAN 2	SHEET 57 OF 65

VT STATE PLANE GRID

GEOTEXTILE FOR SILT FENCE
STA. 33+80 TO 34+92, LT.
STA. 34+99 TO 36+22, LT.
STA. 36+27 TO 37+50, LT.
STA. 2+10 TO 2+34, RT.
STA. 2+79 TO 3+32, RT.
STA. 3+66 TO 5+08, RT.

EROSION MATTING
STA. 0+13 TO 3+44, RT.
STA. 0+25 TO 5+97, LT.
STA. 20+20 TO 24+69, RT.

GEOTEXTILE FOR SILT FENCE (INLET PROTECTION)
STA. 2+74, RT.
STA. 21+45, RT.

STONE OUTLET PROTECTION
STA. 37+48 TO 37+49, LT.
STA. 37+74 TO 37+82, LT.

STONE LINED PILOT CHANNEL
STA. 34+15 TO 35+62, LT.

STONE CHECK DAMS
STA. 35+64, LT.
STA. 36+63, LT.
STA. 1+00, RT.
STA. 1+87, RT.

SNOW FENCE (MOD.-PDF)
STA. 38+58, RT. TO 40+50, LT. (507')
STA. 3+88, RT. TO 32+06, LT. (1033')

SNOW FENCE (MOD.-ARCH)
STA. 2+43, RT. TO 3+88, LT. (147')
STA. 35+65, RT. TO 38+55, LT. (466')

NOTES:

1. PLACE CONSTRUCTION FENCE OUTSIDE LIMITS OF CONSTRUCTION.
2. CONSTRUCTION FENCE TO BE PAID FOR UNDER 620.70 - SNOW FENCE (MOD. -PDF)
3. CONSTRUCTION FENCE SHALL BE PLACED IN A MANNER TO PROTECT WETLANDS FROM CONSTRUCTION ACTIVITIES.
4. ALL DRAINAGE PIPES CONSTRUCTED IN PHASE I SHALL BE TERMINATED AND CAPPED PRIOR TO BEGINNING PHASE 2 CONSTRUCTION.

MATCHLINE – SEE EPSC PLAN 3

EROSION CONTROL LEGEND

- EROSION MATTING
- STONE LINED PILOT CHANNEL
- SILT FENCE
- CULVERT INLET PROTECTION
- ROCK BARRIER INLET PROTECTION
- STONE CHECK DAMS
- STONE OUTLET PROTECTION
- VTP — VEHICLE TRACKING PAD
- SNOW FENCE (MOD.-PDF)
- SNOW FENCE (MOD.-ARCH)

TOE OF SLOPE OF TEMP. STOCKPILE
STONE CHECK DAMS
STONE LINED PILOT CHANNEL (SEE DRAINAGE DETAILS)
GRASS LINED TREATMENT SWALE
STORM DRAIN OUTLET PROTECTION (4' X8') STONE FILL, TYPE I
CULVERT INLET PROTECTION (TYP.)
STORM DRAIN OUTLET PROTECTION (3' X6') STONE FILL, TYP I
ROCK BARRIER INLET PROTECTION (TYP).
STONE CHECK DAMS FOR DETAILS, SEE EPSC DETAILS SHEET I
VT ROUTE 22A
VTP
T.H. #46 MEIGS ROAD
CLASS 3 WETLAND

MATCHLINE STA. 40+50 – SEE EPSC PLAN 2

0 40 80
SCALE: 1" = 40'

Dufresne-Henry

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EHOI(21)

FILE NAME: ...\highway\PlotFiles\58epscla.pl2 PLOT DATE: 4/19/2006
PROJECT LEADER: WLD DRAWN BY: MBL/SRZ
DESIGNED BY: GGG CHECKED BY: GAS
EPSC PLAN 1A SHEET 58 OF 65

N

VT STATE PLANE GRID

GEOTEXTILE FOR SILT FENCE
STA. 33+80 TO 34+92, LT.
STA. 34+99 TO 36+22, LT.
STA. 36+27 TO 37+50, LT.
STA. 2+10 TO 2+34, RT.
STA. 2+79 TO 3+32, RT.
STA. 3+66 TO 5+08, RT.

EROSION MATTING
STA. 0+13 TO 3+44, RT.
STA. 0+25 TO 5+97, LT.
STA. 20+20 TO 24+69, RT.

GEOTEXTILE FOR SILT FENCE (INLET PROTECTION)
STA. 2+74, RT.
STA. 21+45, RT.

STONE OUTLET PROTECTION
STA. 37+48 TO 37+49, LT.
STA. 37+74 TO 37+82, LT.

STONE LINED PILOT CHANNEL
STA. 34+15 TO 35+62, LT.

STONE CHECK DAMS
STA. 35+64, LT.
STA. 36+63, LT.
STA. 1+00, RT.
STA. 1+87, RT.

SNOW FENCE (MOD.-PDF)
STA. 38+58, RT. TO 40+50, LT. (507')
STA. 3+88, RT. TO 32+06, LT. (1033')

SNOW FENCE (MOD.-ARCH)
STA. 2+43, RT. TO 3+88, LT. (147')
STA. 35+65, RT. TO 38+55, LT. (466')

NOTES:

1. PLACE CONSTRUCTION FENCE OUTSIDE LIMITS OF CONSTRUCTION.
2. CONSTRUCTION FENCE TO BE PAID FOR UNDER 620.70 - SNOW FENCE (MOD. -PDF) OR (MOD. -ARCH)
3. CONSTRUCTION FENCE SHALL BE PLACED IN A MANNER TO PROTECT WETLANDS FROM CONSTRUCTION ACTIVITIES.
4. ALL DRAINAGE PIPES CONSTRUCTED IN PHASE I SHALL BE TERMINATED AND CAPPED PRIOR TO BEGINNING PHASE 2 CONSTRUCTION.

MATCHLINE - SEE EPSC PLAN 3

MATCHLINE STA. 40+50 - SEE EPSC PLAN 2

EROSION CONTROL LEGEND

- EROSION MATTING
- STONE LINED PILOT CHANNEL
- SILT FENCE
- CULVERT INLET PROTECTION
- ROCK BARRIER INLET PROTECTION
- STONE CHECK DAMS
- STONE OUTLET PROTECTION
- VTP — VEHICLE TRACKING PAD
- SNOW FENCE (MOD.-PDF)
- A — SNOW FENCE (MOD.-ARCH)

TOE OF SLOPE OF TEMP. STOCKPILE

STONE CHECK DAMS

STORM DRAIN OUTLET PROTECTION (4'X8') STONE FILL, TYPE I

STONE LINED PILOT CHANNEL (SEE DRAINAGE DETAILS)

GRASS LINED TREATMENT SWALE

CULVERT INLET PROTECTION (TYP.)

STORM DRAIN OUTLET PROTECTION (3'X6') STONE FILL, TYPE I

ROCK BARRIER INLET PROTECTION (TYP).

STONE CHECK DAMS FOR DETAILS, SEE EPSC DETAILS SHEET 1

VT ROUTE 22A

TUNDERGRASS

MEIGS ROAD

CLASS 3 WETLAND

SCALE: 1" = 40'

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\highway\PlotFiles\59epscIb.pl2	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL/SRZ
DESIGNED BY: GGG	CHECKED BY: GAS
EPSC PLAN 1B	SHEET 59 OF 65

Dufresne-Henry

VT STATE PLANE GRID

MATCHLINE STA. 40+50 - SEE EPSC PLAN 3

MATCHLINE STA. 40+50 - SEE EPSC PLAN 1

TOE OF SLOPE OF TEMPORARY STOCKPILE (SEE EPSC PLANS FOR DETAILS)

10' TEMPORARY CONSTRUCTION EASEMENT

00+10

00+00

REMOVE OLD U.S. ROUTE 7 AND RESTORE TO NATURAL CONDITION, SEE NOTES.

CLASS 3 WETLAND

CLASS 3 WETLAND

SURVEY POINT #2

RELINQUISHED TO TOWN OF FERRISBURGH

U.S. ROUTE 7

41+00 42+00 43+00 44+00 45+00 45+78

SILT FENCE
STA. 45+15 TO 46+56, LT.

SNOW FENCE (MOD. -PDF)
STA. 40+50, LT. TO STA. 41+16, LT. (1855')

SNOW FENCE (MOD. -ARCH)
STA. 41+16, LT. TO STA. 42+88, LT. (360')

NOTES:

1. EXCAVATE EXISTING ASPHALT AND CONCRETE ROAD (ASSUME 10" DEPTH).
2. HARROW SUBSURFACE TO BREAK UP COMPACTED BASE. BACKFILL AND GRADE TO DRAIN.
3. PLACE 4" OF TOPSOIL, SEED, FERTILIZER, LIMESTONE, AND MULCH PER SEEDING FORMULA AND NOTES SHOWN ON TYPICAL SECTIONS SHEET.
4. REMOVAL AND DISPOSAL OF ASPHALT AND CONCRETE TO BE PAID FOR AS SOLID ROCK EXCAVATION.
5. ACCESS TO EXCAVATION OF OLD U.S. ROUTE 7 SHALL BE FROM PARK-AND-RIDE ACCESS ROAD. CONSTRUCTION ACCESS FROM U.S. ROUTE 7 IS PROHIBITED.
6. CONTRACTOR SHALL NOT OPERATE EQUIPMENT OUTSIDE OF CONSTRUCTION FENCE.
7. CONSTRUCTION FENCE TO BE PAID FOR UNDER 620.70 - SNOW FENCE (MOD. - PDF) OR (MOD. - ARCH) AS APPLICABLE.
8. CONSTRUCTION FENCE SHALL NOT BE PLACED IN WETLANDS.
9. WORK ON OLD U.S. ROUTE 7 NEAR CLASS 3 WETLANDS SHALL BE HARROWED, BACKFILLED, AND MULCHED IMMEDIATELY AFTER EXCAVATION TO PREVENT SEDIMENT FROM ENTERING WETLANDS.

EROSION CONTROL LEGEND

- EROSION MATTING
- STONE LINED PILOT CHANNEL
- SILT FENCE
- CULVERT INLET PROTECTION
- ROCK BARRIER INLET PROTECTION
- STONE CHECK DAMS
- STONE OUTLET PROTECTION
- VTP — VEHICLE TRACKING PAD
- SNOW FENCE (MOD.-PDF)
- A — SNOW FENCE (MOD.-ARCH)

0 40 80
SCALE: 1" = 40'

Dufresne-Henry

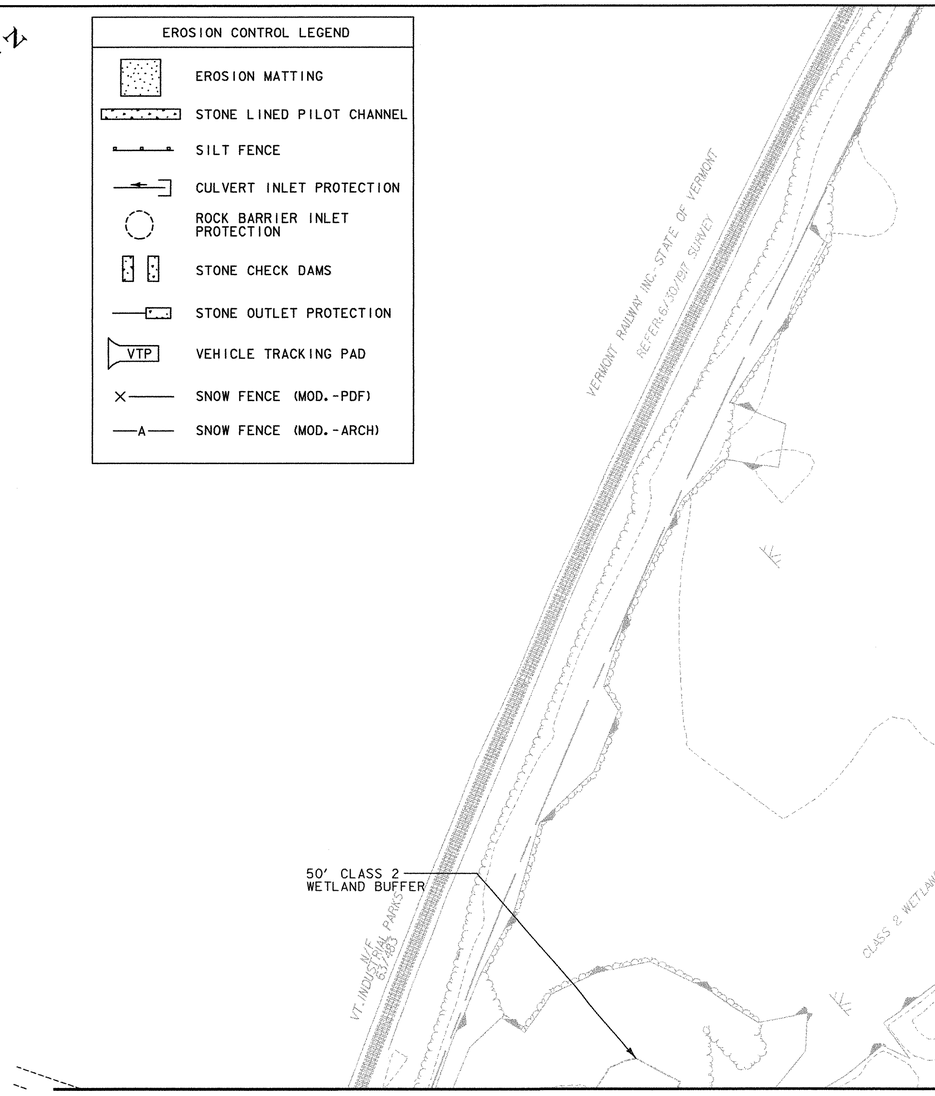
PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

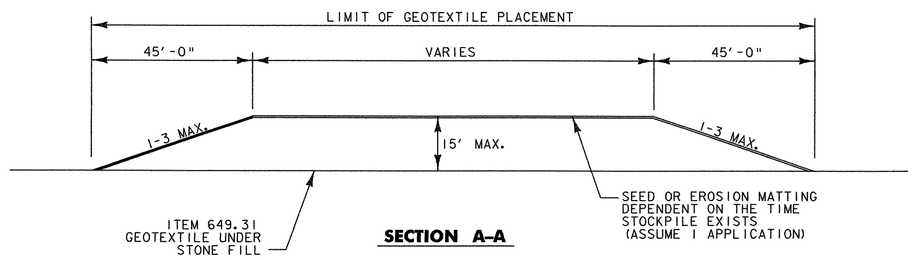
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PROJECT LEADER: WLD DRAWN BY: MBL/SRZ
DESIGNED BY: GGG CHECKED BY: GAS
EPSC PLAN 2 SHEET 60 OF 65

N

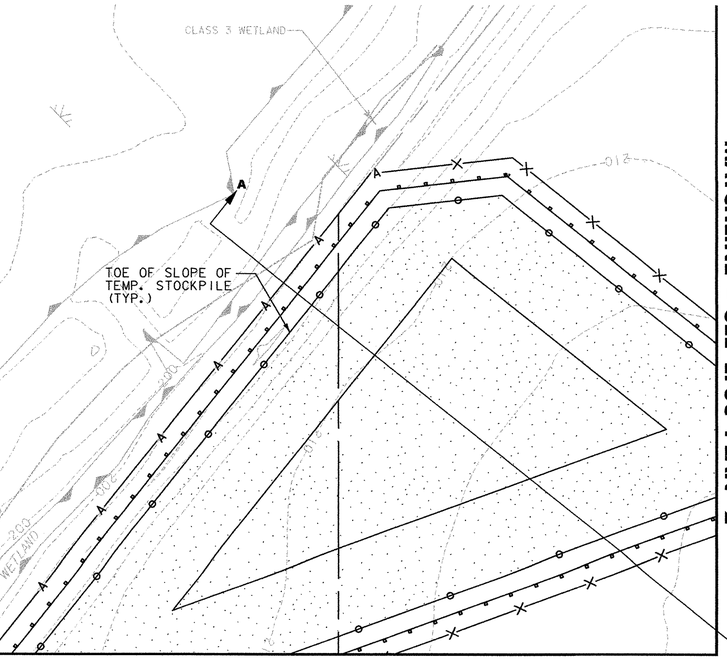
VT STATE PLANE GRID

EROSION CONTROL LEGEND	
	EROSION MATTING
	STONE LINED PILOT CHANNEL
	SILT FENCE
	CULVERT INLET PROTECTION
	ROCK BARRIER INLET PROTECTION
	STONE CHECK DAMS
	STONE OUTLET PROTECTION
VTP	VEHICLE TRACKING PAD
×——	SNOW FENCE (MOD.-PDF)
—A—	SNOW FENCE (MOD.-ARCH)





SECTION A-A



MATCHLINE – SEE EPSC PLAN 2

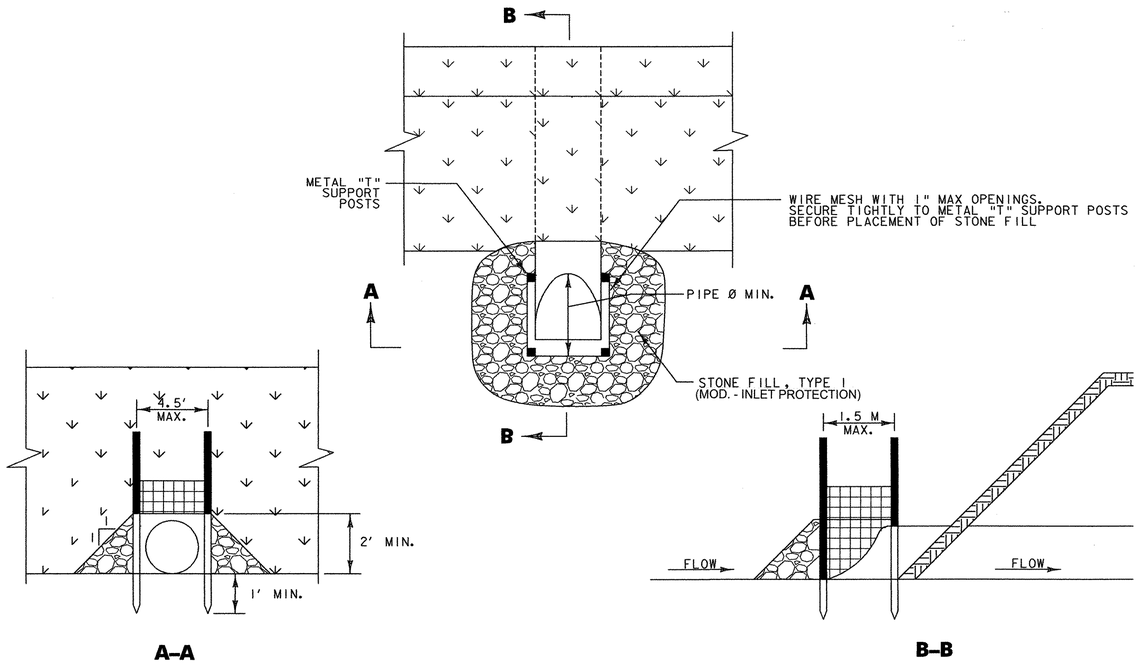
MATCHLINE – SEE EPSC PLAN 1A & 1B

0 40 80

SCALE: 1" = 40'

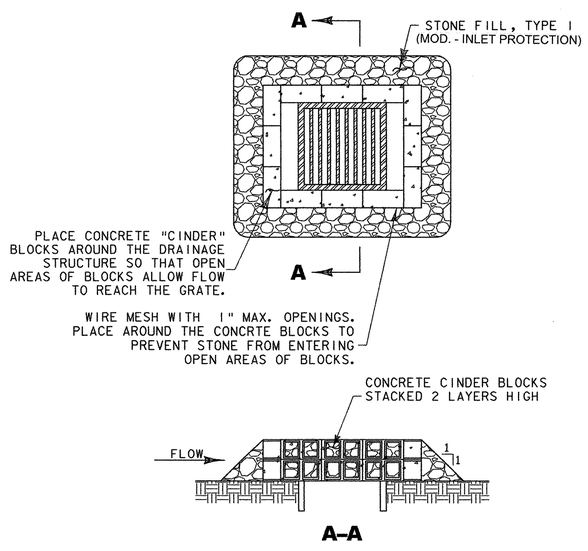
DH Dufresne-Henry

PROJECT NAME:	FERRISBURGH/VERGS FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\highway\PlotFiles\6lepsc3.pt	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL/SRZ
DESIGNED BY: CSP/GGG	CHECKED BY: GAS
EPSC PLAN 3	SHEET 61 OF 65



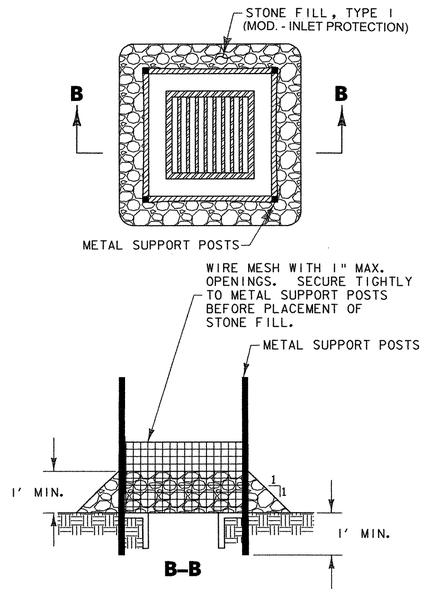
ROCK BARRIER CULVERT INLET PROTECTION

NOT TO SCALE



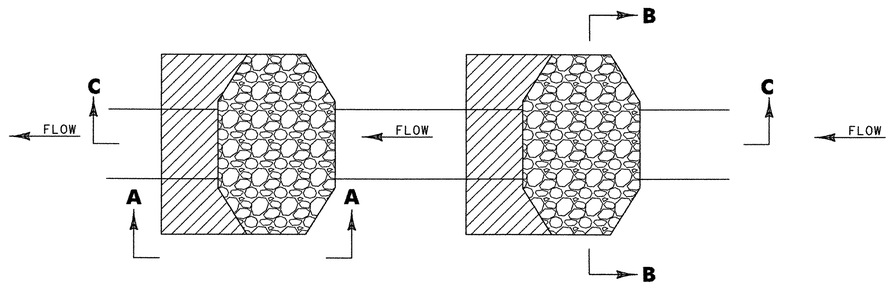
ROCK BARRIER INLET PROTECTION – PAVED AREAS

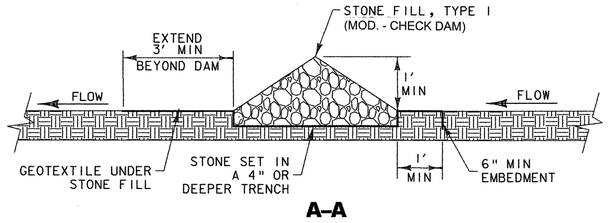
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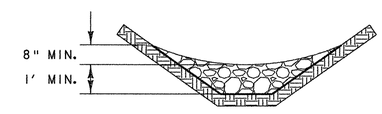


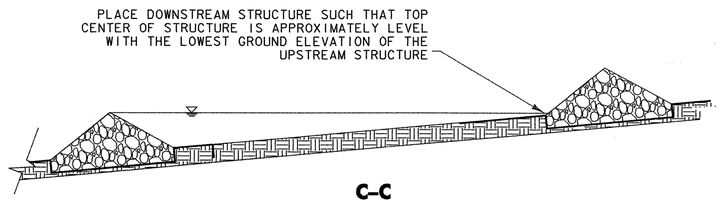
ROCK BARRIER INLET PROTECTION – UNPAVED AREAS

NOT TO SCALE







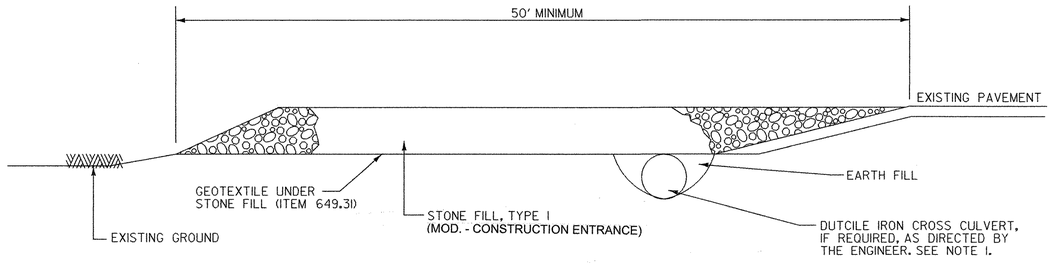


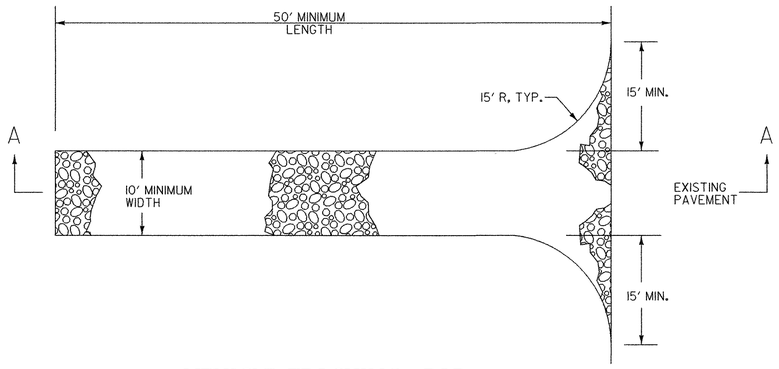
STONE CHECK DAMS

NOT TO SCALE

PROJECT NAME:	FERRIBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EHOI(21)
FILE NAME: ...\PlotFiles\62-65epscdetails.pt	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL/SRZ
DESIGNED BY: GGG	CHECKED BY: GAS
EROSION CTRL DETAIL SHEET 1	SHEET 62 OF 65

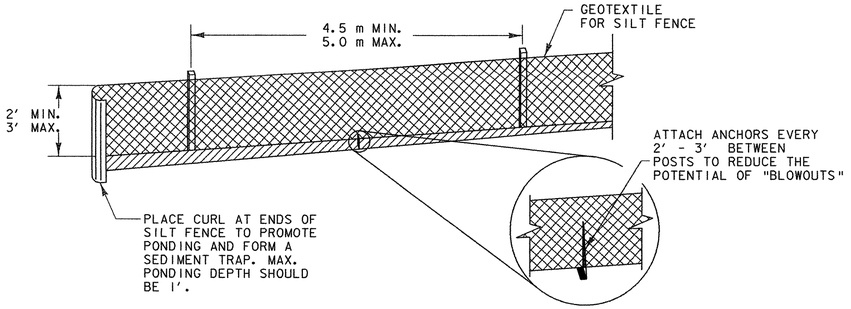
Dufresne-Henry

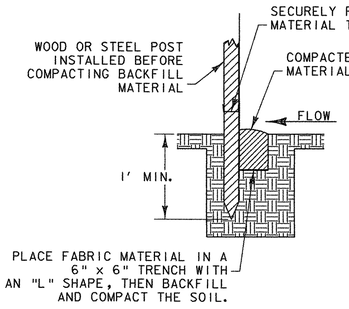


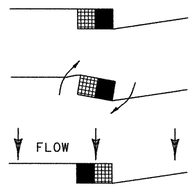


VEHICLE TRACKING PAD

N.T.S.







1. PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE.
2. ROTATE BOTH POSTS AS LEAST 180° IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL
3. DRIVE BOTH POSTS 1' INTO THE GROUND AND BURY THE FLAP IN THE TRENCH.

ATTACHING TWO SILT FENCES
WHEN TRENCHING IS USED

SILT FENCE

NOT TO SCALE

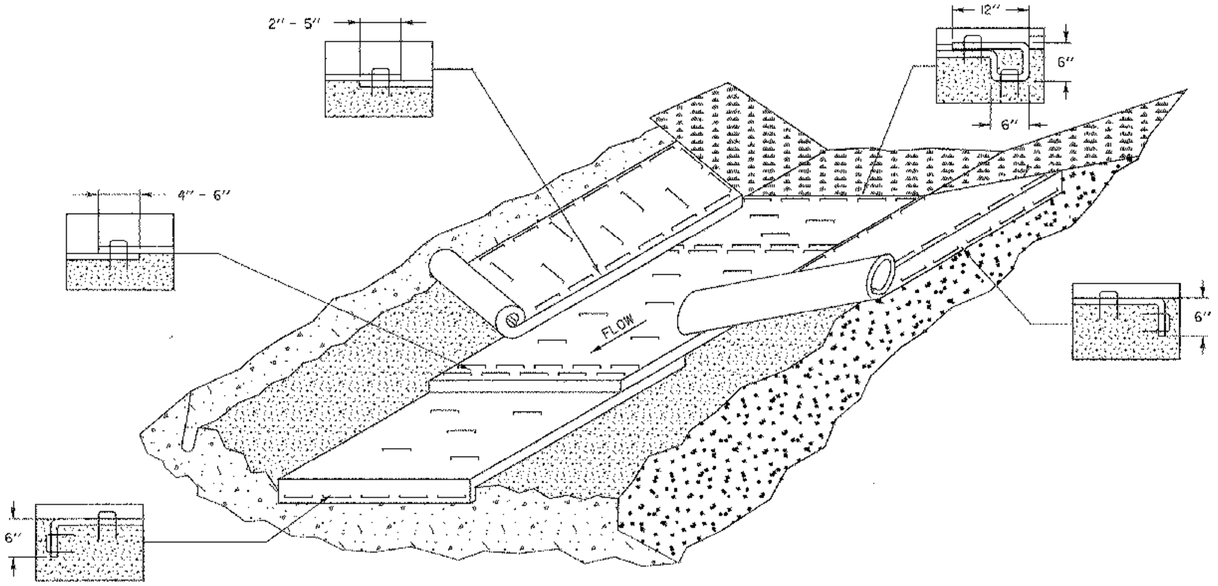
NOTE: SILT FENCE SHALL NOT BE INSTALLED IN AREAS WHERE CONCENTRATED FLOWS ARE EXPECTED, SUCH AS DRAINAGE DITCHES, AROUND INLETS, OR ABOVE OR BELOW CULVERT DISCHARGES.

NOTES:

1. ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD TRACKING PADS SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. WHEN THE VTP IS LOCATED AT THE HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED, AS DIRECTED BY THE ENGINEER. A 8" DIAMETER MINIMUM DUCTILE IRON PIPE WILL BE REQUIRED. DUCTILE IRON PIPE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 613.10 - STONE FILL, TYPE I (MOD. - CONSTRUCTION ENTRANCE)
2. A VEHICLE TRACKING PAD SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENIRE LENGTH OF THE VEHICLE TRACKING PAD
3. TO MINIMIZE EROSION, THE CONTRACTOR SHALL PERFORM VISUAL INSPECTIONS OF EROSION CONTROL DEVICES, BANKS, IN-CHANNEL STRUCTURES, ETC., EVERY SEVEN (7) CALENDAR DAYS AS WELL AS AFTER ANY STORM EVENTS GENERATING STORMWATER RUNOFF FROM THE SITE. DEFICIENCIES SHALL BE REPAIRED AND REQUIRED MAINTENANCE SHALL BE PERFORMED WITHIN 24 HOURS.

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FILE NAME: ...\PlotFiles\62-65epscdetails.pt	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: GGG	CHECKED BY: GAS
EROSION CTRL DETAIL SHEET 2	SHEET 63 OF 65

Dufresne-Henry



EROSION PROTECTION FOR DITCHES

APPLICATION NOTES:

A. THE PURPOSE OF LINING THE DITCH WITH EROSION MATTING IS TO REDUCE EROSION AND AID THE ESTABLISHMENT OF VEGETATION AT LOW VELOCITIES.

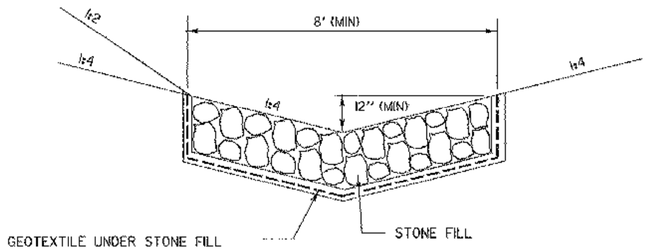
B. THE FOLLOWING CHARTS SHALL BE USED TO DETERMINE THE APPROPRIATE EROSION CONTROL MEASURE:

DITCH AND CHANNEL PROTECTION	
SLOPE	LINING
< 1%	GRASS
1% TO 4 %	EROSION MATTING
4 % TO 10 %	STONE FILL, TYPE I
> 10 %	STONE FILL, TYPE II

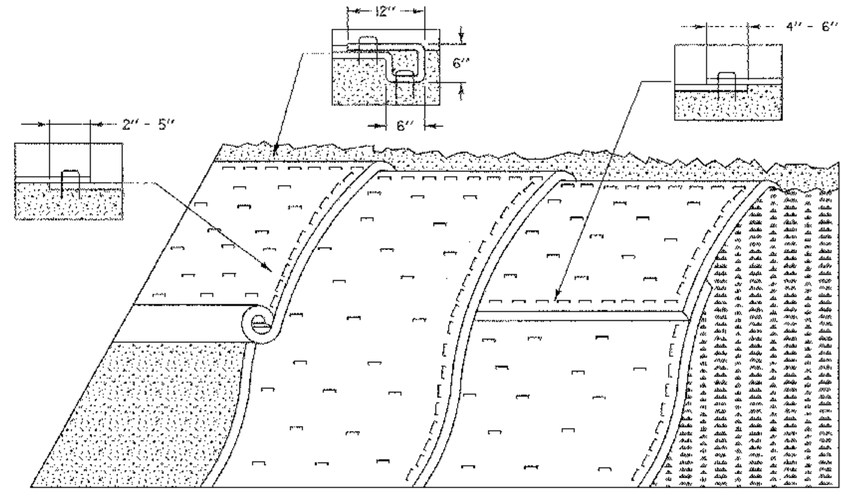
STONE FILL THICKNESS	
STONE FILL TYPE	THICKNESS
TYPE I	1 FT
TYPE II	2 FT

GENERAL NOTES:

1. WATER MAY NEED TO BE DIVERTED TO ALLOW PROPER MATTING INSTALLATION.
2. GRADE AND SMOOTH CHANNEL TO PROVIDE GOOD MATTING TO SOIL SURFACE CONTACT.
3. APPLY FERTILIZER, LIME, AND SEED PRIOR TO PLACING MATTING.
4. INSTALL MATTING IN THE CENTER OF THE CHANNEL, IN THE DIRECTION OF THE WATER FLOW.
5. INSTALL MATTING ON THE SIDE SLOPES OF THE CHANNEL, OVERLAPPING THE CENTER MAT.
6. ANCHOR MATTING AS SHOWN, UTILIZING ANCHOR STAPLES. STAPLE PLACEMENT SHALL BE DETERMINED BY THE MANUFACTURER'S INTALLATION INSTRUCTIONS.
7. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE.
8. MEASURES SHALL BE REPAIRED AND RESTAPLED AS NECESSARY TO ENSURE PROPER FUNCTION.
9. PAYMENT FOR INSTALLATION OF MATTING SHALL BE MADE UNDER THE EROSION CONTROL WITH MATTING ITEM.
10. PAYMENT FOR MONITORING EROSION CONTROL MATTING SHALL BE MADE UNDER THE MONITORING EROSION & SEDIMENT CONTROL PLAN ITEM.
11. PAYMENT FOR MAINTAINING DITCH PROTECTION SHALL BE MADE UNDER THE FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN ITEM, UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.



TEMPORARY STONE LINED DITCH



EROSION PREVENTION FOR SIDE SLOPES

APPLICATION NOTES:

A. THE PURPOSE OF MATTING ON SIDE SLOPES IS TO REDUCE EROSION AND AID THE STABLISHMENT OF VEGETATION

B. EROSION CONTROL MATTING SHALL BE USED FOR THE FOLLOWING REASONS:

SCALE SLOPES 1:4

* SIDE SLOPES > 3:1 (H:V)
* AREAS WHERE SEED AND MULCH WILL NOT STAY IN PLACE ALONE
* WHERE SEEDING IS OUTSIDE THE GROWING SEASON.

GENERAL NOTES:

1. GRADE AND SMOOTH THE SLOPE TO PROVIDE GOOD MATTING TO SOIL SURFACE CONTACT.
2. APPLY FERTILIZER, LIME, AND SEED PRIOR TO PLACING MATTING.
3. ANCHOR MATTING AS SHOWN, UTILIZING ANCHOR STAPLES. STAPLE PLACEMENT SHALL BE DETERMINED BY THE MANUFACTURER'S INTALLATION INSTRUCTIONS.
4. UNROLL MATTING VERTICALLY DOWN SLOPE IN THE DIRECTION OF WATER FLOW.
5. OVERLAP UPPER MATTING OVER LOWER MATTING AS SHOWN.
6. OVERLAP ADJACENT MATTING AS SHOWN.
7. CUT EXCESS MATTING AT END OF SLOPE AND ANCHOR THE END.
8. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE.
9. MATTING SHALL BE REPAIRED AND RESTAPLED AS NECESSARY TO ENSURE PROPER FUNCTION.
10. PAYMENT FOR INSTALLATION OF MATTING SHALL BE MADE UNDER THE EROSION CONTROL WITH MATTING ITEM.
11. PAYMENT FOR MONITORING EROSION CONTROL MATTING SHALL BE MADE UNDER THE MONITORING EROSION & SEDIMENT CONTROL PLAN ITEM.
12. PAYMENT FOR MAINTAINING SLOPE PROTECTION SHALL BE MADE UNDER THE FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN ITEM, UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.

PROJECT NAME: FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER: CMG PARK (15)S/STP EH01(21)

FILE NAME: ...\PlotFiles\62-65epsdetails.pltPLOT DATE: 4/19/2006
PROJECT LEADER: WLD DRAWN BY: MBL
DESIGNED BY: GGG CHECKED BY:
EROSION CONTROL DETAILS 3 SHEET 64 OF 65

DH Dufresne-Henry

EROSION PREVENTION AND SEDIMENT CONTROL PLAN GENERAL NOTES

1. CONTRACTOR'S RESPONSIBILITIES FOR EROSION PREVENTION AND SEDIMENT CONTROL

A. PREVENT OR MINIMIZE SOIL EROSION OF DISTURBED LAND AND PREVENT THE DISCHARGE OF SEDIMENT AND OTHER CONSTRUCTION SRELATED POLLUTANTS TO WATERS OF THE STATE.

B. FURNISH, INSTALL, INSPECT AND MAINTAIN EROSION AND SEDIMENT CONTROL MATERIALS IN CONJUNCTION WITH THE GENERAL CLEARING, GRADING AND EXCAVATION OF THE SITE.

C. ESTABLISH LIMITS OF SOIL DISTURBANCE: LOCATION(S) OF TOPSOIL STOCKPILES; CONSTRUCTION STAGING AREAS; STORAGE AREAS; REFUELING AND MAINTENANCE AREAS.

D. ESTABLISH AND MARK BOUNDARIES FOR ANY UNDISTURBED RIPARIAN BUFFER ZONES AND MAINTAIN ALL EXISTING STREAMS AND REPARIAN BUFFER ZONES IN THEIR NATURAL CONDITION.

E. LOCATE AREAS FOR DISPOSAL OF STUMPS, EXCESS SOILS AND COLLECTED SEDIMENT AND OTHER POLLUTANTS, AND DISPOSE OF THESE MATERIALS IN A MANNER THAT WILL NOT RESULT IN SEDIMENTS AND POLLUTANTS ENTERING WATERS OF THE STATE.

F. SEQUENCE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXTENT OF DISTURBED SOILS LEFT OPEN TO EROSION AT ANY GIVEN TIME AS DETAILED IN THE CONSTRUCTION PHASING AND EROSION AND SEDIMENT CONSTROL PLANS.

G. AVOID ALL LAND DISTURBANCES WITHIN 50 FEET OF ALL WATER BODIES, MEASURED FROM THE TOP OF BANK, AND WETLANDS, EXCEPT WHERE NECESSARY FOR THE RECONSTRUCTION OF EXISTING ROADS AND THE CONSTRUCTION OF BRIDGES, STREAM CROSSINGS, AND COMPONENTS OF STORMWATER MANAGEMENT SYSTEMS WHICH BY NECESSITY MUST BE LOCATED IN THIS ZONE.

H. MAINTAIN AND PRESERVE TO THE EXTENT POSSIBLE THE SITE'S NATURAL DRAINAGE WAYS THAT CONVEY STORMWATER TO STREAMS, RIVERS, LAKES, PONDS AND WETLANDS.

I. PREVENT OFF-SITE STORMWATER FROM ENTERING AREAS OF DISTURBED SOIL ON-SITE.

J. PREVENT THE OFF-SITE DISCHARGE OF SEDIMENT MOBILIZED ON THE CONSTRUCTION SITE, INCLUDING OFF-SITE TRACKING OF SEDIMENT ONTO PAVED PUBLIC OR PRIVATE ROADWAYS BY CONSTRUCTION VEHICLES.

K. DISPOSE OF SEDIMENTS AND OTHER POLLUTANTS WHICH HAVE BEEN COLLECTED AND REMOVED IN THE COURSES OF STORMWATER TREATMENT IN A MANNER THAT WILL NOT RESULT IN THE SEDIMENTS AND POLLUTANTS ENTERING WATERS OF THE STATE. DISPOSAL SITES REQUIRE RELATIVELY LEVEL TERRAIN WITH AN ISOLATION DISTANCE OF AT LEAST 100 FEET FROM ANY SURFACE WATERS, INCLUDING WETLANDS.

2. LIMITATIONS AND PROHIBITIONS

A. THE CONTRACTOR SHALL SCHEDULE EARTHWORK COMPLETION, SITE STABILIZATION, ESTABLISHMENT OF PERANNIAL COVER AND INSTALLATION OF NON-VEGETATIVE PROTECTION MEASURES NO LATER THAN OCTOVER 15. TO ASSURE ESTABLISHMENT OF VEGETATED COVER, SEEDING AND MULCHING ACTIVITIES SHALL BE COMPLETED BY SEPTEMBER 15.

FOR PROJECTS EXTENDING BEYOND OCTOBER 15, LIMIT EXPOSURE OF SOILS AND MINIMIZE ADDITIONAL EARTHWORKS. ANY PROPOSED SOIL DISTURBANCE AND EARTHWORKS BETWEEN OCTOBER 15 AND MAY 1 WILL REQUIRE DEVELOPMENT OF A SPECIAL WINTER EROSION AND SEDIMENT CONTROL PLAN ADDRESSING THE SPECIFIC CONCERNS OF WINTER CONSTRUCTION. THIS PLAN MUST BE FILED WITH, AND APPROVED BY, THE PERMITTING AUTHORITY BY SEPTEMBER 15. IF IT IS DETERMINED BY THE ENGINEER OR THE PERMITTING AUTHORITY THAT WINTER CONSTRUCTION WOULD PRESENT A SIGNIFICANT RISK TO WATER QUALITY, THE CONTRACTOR WILL NEED TO REQUEST A WINTER SHUTDOWN IN ACCORDANCE WITH THE PROVISIONS OF THE CONTRACT DOCUMENTS.

B. DISCHARGES OF ANY MATERIAL OTHER THAN STORMWATER, SUCH AS VEHICLE AND EQUIPMENT MAINTENANCE SPILLS, FUELS, WASH WATER, CONSTRUCTION DEBRIS, OIL, WET CONCRETE (INCLUDING WASHOUT WATER FROM CONCRETE BATCH TRUCKS OR EQUIPMENT USED TO MIX CONCRETE), AND OTHER SUBSTANCES, ARE PROHIBITED.

C. NO SILT FENCE SHALL BE UTILIZED IN AREAS OF CONCENTRATED FLOWS, SUCH AS CHANNELS OR DITCHES.

D. DISPOSAL OF SEDIMENT IN A WETLAND OR ANY CORRECTIVE ACTION UNDERTAKEN TO REMOVE SEDIMENT FROM A WETLAND IS PROHIBITED.

E. THE FAILURE TO PROMPTLY ABATE THE DISCHARGE OF SEDIMENT OR ANY OTHER WASTE WHICH CAUSES A VISIBLE DISCOLORATION OF SURFACE WATERS (INCLUDING WETLANDS), OR IS FOUND TO BE EXCEEDING WATER QUALITY STANDARDS BASED ON MONITORING, IS PROHIBITED.

3. GENERAL CONSTRUCTION NOTES

A. SEE EROSION CONTROL PLANS FOR CONSTRUCTION NOTES AND PHASING.

B. VEHICLE AND EQUIPMENT STORAGE AREAS OR AREAS ADJACENT TO CONSTRUCTION TRAILER OR OTHER HIGH TRAFFIC AREAS SHALL BE COVERED WITH GEOTEXTILE FABRIC AND 12 INCHES OF GRAVEL. FOLLOWING COMPLETIONG OF CONSTRUCTION, ALL NON-NATIVE MATERIALS SHALL BE REMOVED FROM THE STAGING AREA. COMPACTED, RUTTED, OR OTHERWISE DISTURBED SOILS SHALL BE TILLED, RAKED, SEEDED AND MULCHED.

C. ERODIBLE MATERIALS STOCKPILED WITHIN THE MATERIAL STORAGE AREAS SHALL BE ISOLATED WITH FILTER FABRIC. SOIL STOCKPILED ON THE SITE SHALL BE SEEDED AND MULCHED.

D. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED WITHIN 24 HOURS OF BEING STRIPPED OR BACKFILLED AND GRADED.

E. STOCKPILES SHALL BE MULCHED IF THEY WILL BE UNDISTRUBED FOR MORE THAN 24 HOURS.

4. INSPECTION

A. THE ONSITE COORDINATOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL STURCTURES AND MEASURES, AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND NO LATER THAN 24 HOURS AFTER ANY STORM EVEN WHICH GENERATES A DISCHARGE OF STORMWATER RUNOFF FROM THE CONSTRUCTION SITE, TO ENSURE THEY ARE OPERATING CORRECTLY.

B. THE ONSITE COORDINATOR SHALL INSPECT ANY SITES THAT HAVE BEEN TEMPORARILY OR FINALLY STABILIZED A MINIMUM OF ONCE A MONTH.

C. THE CONTRACTOR SHALL INSPECT CHANNEL LININGS, EMBANKMENTS AND CHANNEL BEDS DAILY FOR ANY SIGN OF EROSION.

D. THE CONTRACTOR SHALL INSPECT DISCHARGE POINTS DAILY TO VISUALLY ASSESS WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO RECEIVING WATERS.

E. IN THE CASE OF SOIL DISTURBANCE OR EARTHWORK OCCURRING OVER THE WINTER PERIOD (OCT. 15 TO MAY 1), DAILY MONITORING OF ALL EROSION PREVENTION, SEDIMENT CONTROL AND CONSTRUCTION ACTIVITIES SHALL BE REQUIRED IN AREAS WHERE SUCH SOIL DISTURBANCES, EARTHWORK OR ACTIVITIES ARE ONGOING. IN AREAS THAT HAVE BEEN SHUT DOWN FOR THE WINTER, THE ONSITE COORDINATOR SHALL INSPECT EROSION PREVENTION AND SEDIMENT CONTROL DEVICES IN THE FIELD MONTHLY, NO LATER THAN 24 HOURS AFTER ANY STORM EVENT WHICH GENERATES A DISCHARGE OF STORMWATER RUNOFF FROM THE CONSTRUCTION SITE, OR DURING A THAW.

F. THE ONSITE COORDINATOR AND THE CONTRACTOR SHALL INSPECT FOR THE EVIDENCE OF, OR THE POTENTIAL FOR, SEDIMENT LEAVING FROM ALL DISTURBED AREAS OR MATERIAL STORAGE AREAS.

G. AN EROSION AND SEDIMENT CONTROL MONITORING REPORT FORM COMPLETE BY THE ONSITE COORDINATOR STATING THE DATE OF REVIEW AND DESCRIBING THE EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT MEASURES REVIEWED, THE EFFECTIVENESS OF THEIR OPERATION, ANY DEFICIENCEIES, AND CORRECTIVE ACTION TO BE UNDERTAKEN SHALL BE PREPARED AFTER EACH REVIEW. A COPY SHALL BE PROVIDED TO THE ENGINEER AND MAINTAINED ON FILE AT THE PROJECT SITE.

5. MAINTENANCE

A. THE CONTRACTOR SHALL KEEP ALL SEEDED AREAS WATERED AND IN GOOD CONDITION, RE-SEEDING IF AND WHEN NECESSARY UNTIL A GOOD, HEALTHY, UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA SEEDED.

B. THE CONTRACTOR SHALL REPAIR ALL EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES THAT ARE DETERMINED TO BE FAILING, OR NOT FUNCTIONING AS DESIGNED, WITHIN 24 HOURS OF INSPECTION.

C. THE CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT FROM CONTAINMENT SYSTEMS AND OTHER SEDIMENT CONTROL STRUCTURES AS REQUIRED, SUCH THAT PERFORMANCE OF THESE SYSTEMS IS NOT COMPROMISED OR IN ANY WAY IMPAIRED.

D. THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY.

6. CORRECTIVE ACTION

A. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AS SOON AS POSSIBLE, BUT WITHIN 24 HOURS, OF ANY EVIDENCE OF MEASURABLE AMOUNTS OF SEDIMENT OR SEDIMENT-LADEN WATER LEAVING THE CONSTRUCTION SITE OR ANY VISIBLE DISCOLORATION OF SURFACE WATERS (INCLUDING WETLANDS).

B. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CORRECT THE DISCHARGE, INCLUDING HALTING OR REDUCING CONSTRUCTION ACTIVITIES AS NECESSARY UNTIL THE DISCHARGE AND/OR THE CONDITION IS FULLY CORRECTED.

PROJECT NAME:	FERRISBURGH/VERGS-FERRISBURGH
PROJECT NUMBER:	CMG PARK (15)S/STP EH01(21)
FILE NAME: ...\PlotFiles\62-65epscdetails.pt	PLOT DATE: 4/19/2006
PROJECT LEADER: WLD	DRAWN BY: MBL
DESIGNED BY: GGG	CHECKED BY:
EPSC GENERAL NOTES	SHEET 65 OF 65

Dufresne-Henry