INDEX OF SHEETS

SEE SHEET 2

RECORD PLANS	
CONTRACTOR	G W TATRO CONSTRUCTION, INC -JEFFERSONVILLE, VT
RESIDENT ENGINEER	RAY HAYES
CONSTRUCTION BEGAN	APRIL 17, 2007
CONSTRUCTION COMPLETE	JUNE 12, 2007
RECORD PLANS BY	RAY HAYES & C PIERCE

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

BY _____ for R Hayes RESIDENT ENGINEER

DATE 7/26/2010

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 FRANKLIN
COUNTY OF FRANKLIN
VERMONT ROUTES 120 & 236
(MAJOR COLLECTOR)

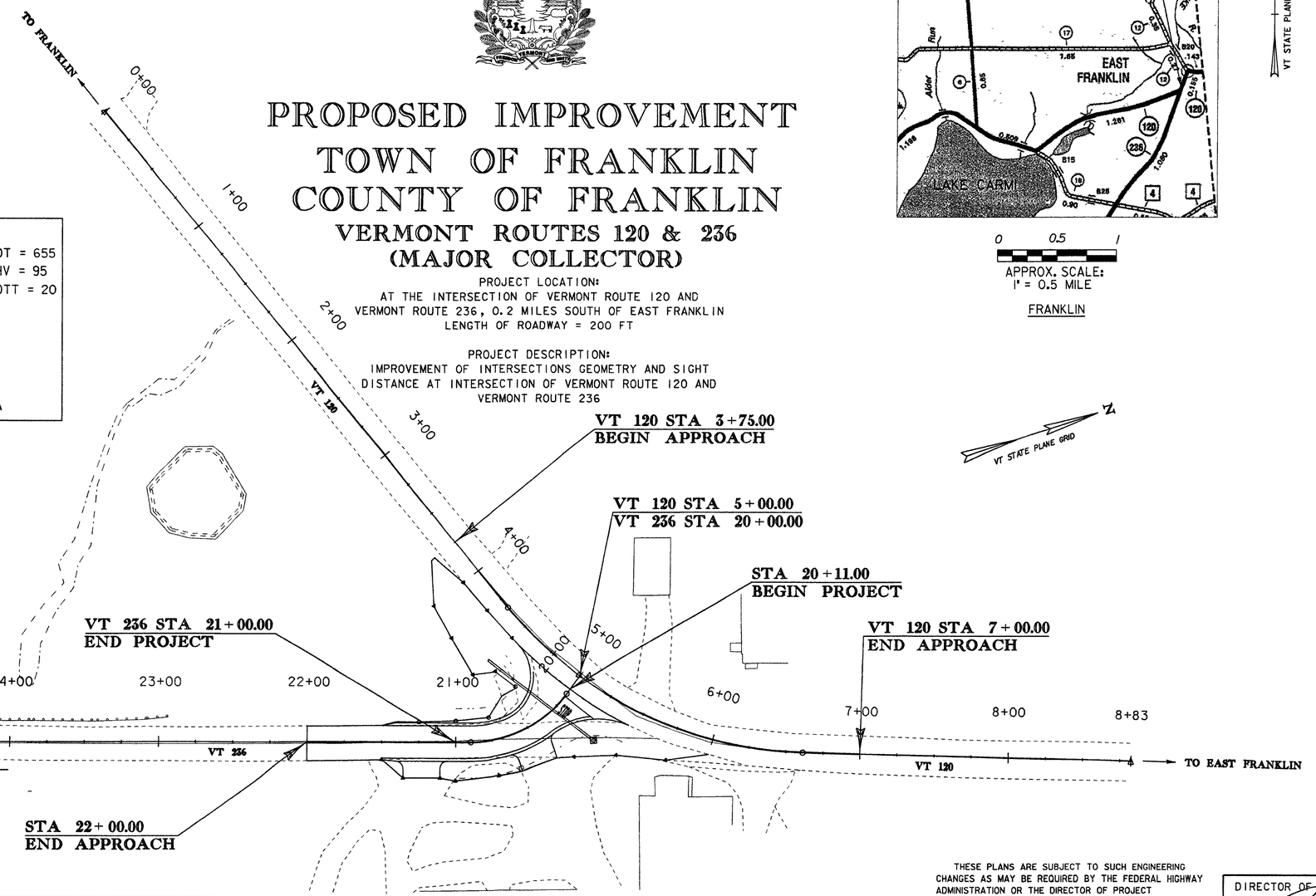
PROJECT LOCATION:
AT THE INTERSECTION OF VERMONT ROUTE 120 AND VERMONT ROUTE 236, 0.2 MILES SOUTH OF EAST FRANKLIN
LENGTH OF ROADWAY = 200 FT

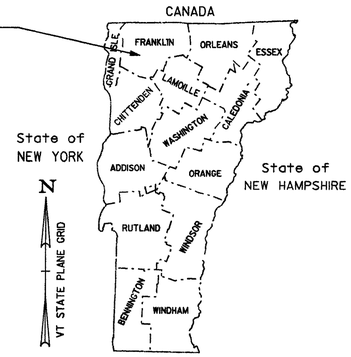
PROJECT DESCRIPTION:
IMPROVEMENT OF INTERSECTIONS GEOMETRY AND SIGHT DISTANCE AT INTERSECTION OF VERMONT ROUTE 120 AND VERMONT ROUTE 236

TRAFFIC DATA

VT 120		VT 236	
2006 ADT = 790	2026 ADT = 1175	2006 ADT = 440	2026 ADT = 655
2006 DHV = 110	2026 DHV = 165	2006 DHV = 65	2026 DHV = 95
2006 ADTT = 24	2026 ADTT = 35	2006 ADTT = 13	2026 ADTT = 20
%T = 3%		%T = 3%	
%D = 50%		%D = 50%	
V = 35 MPH		V = 35 MPH	

2006-2026 (20 YEAR) 18K ESAL = N/A
2006-2046 URBAN MINOR ARTERIAL (40 YEAR) 18K ESAL = N/A





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 : VTRANS
SURVEYED DATE : 06/2005

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

McFarland-Johnson, Inc.
CONCORD CENTER, STE 210
10 FERRY STREET, UNIT 11
CONCORD, NH 03301
PHONE (603) 225-2978
FAX (603) 225-0095

STATE OF VERMONT · DARREN M BENOIT · No. 7524 · REGISTERED PROFESSIONAL ENGINEER · 7/26/06

0 40 80
SCALE IN FEET
1" = 40'

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

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED _____ DATE 10-23-06
PROJECT MANAGER : GAMBLE

PROJECT NAME : FRANKLIN
PROJECT NUMBER : HES 0313 (4)

SHEET 1 OF 23 SHEETS

INDEX OF SHEETS

STANDARD SHEETS

STANDARD	DESCRIPTION	REVISION
B-5	EMBANKMENT ON EARTH SLOPE EMBANKMENT ON ROCK SLOPE MUCK EXCAVATION TYPICAL SLOPE ROUNDING	06/01/94
D-6	REINFORCED CONCRETE DROP INLET WITH GRATE FOR USE IN DITCHES	06/01/94
D-11	STEEL GRATE CAST IRON GRATE, TYPE A CAST IRON COVER	06/01/94
D-20	HIGHWAY CROSSING SLEEVES FOR UNDERGROUND UTILITIES	03/03/03
E-100	CONSTRUCTION APPROACH SIGNS	01/02/04
E-101	CONSTRUCTION SIGN DETAILS	05/30/03
E-102	CONSTRUCTION SIGN DETAILS	06/30/03
E-106	TRAFFIC CONTROL MISCELLANEOUS DETAILS	03/01/04
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	06/30/03
E-107A	BREAKAWAY BARRICADE DETAILS	08/08/95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08/08/95
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08/08/95
E-123	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS	03/16/04
E-136B	STATE ROUTE MARKER SIGN DETAILS	08/08/95
E-138	MILEMARKER DETAILS - STATE & TOWN HIGHWAYS	05/30/03
E-160	FLANGED CHANNEL STEEL POST	05/20/99
E-164	SQUARE STEEL SIGN POST	05/20/99
E-191	PAVEMENT MARKING DETAILS	02/01/99
E-193	PAVEMENT MARKING DETAILS	08/18/95

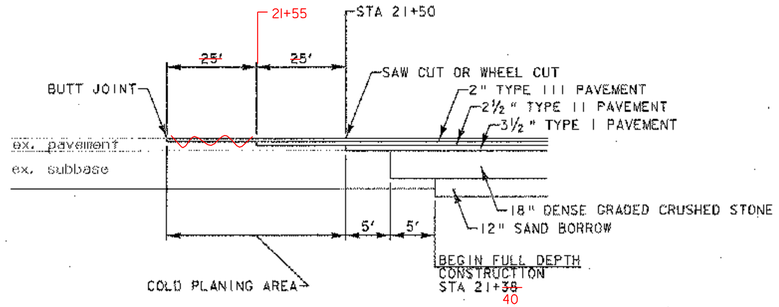
DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

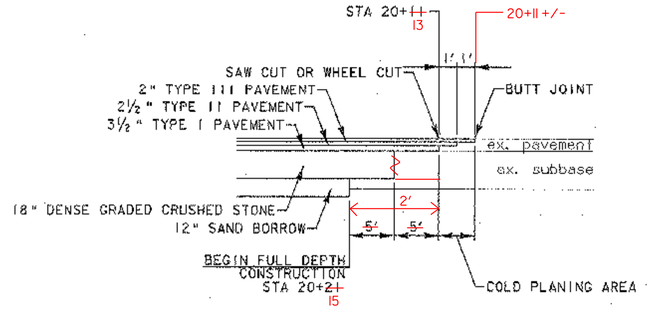
FILE NAME: INDEX.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
INDEX OF SHEETS

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 2 OF 26

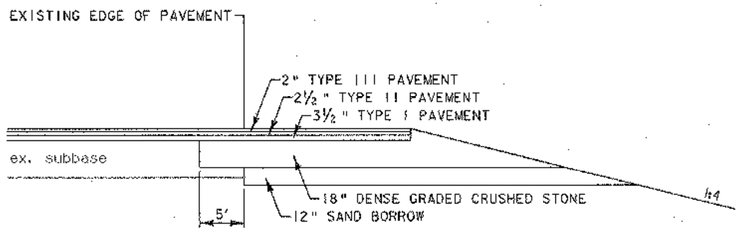
TYPICAL SECTIONS



VT 236 MATERIAL TRANSITION DETAIL
NOT TO SCALE

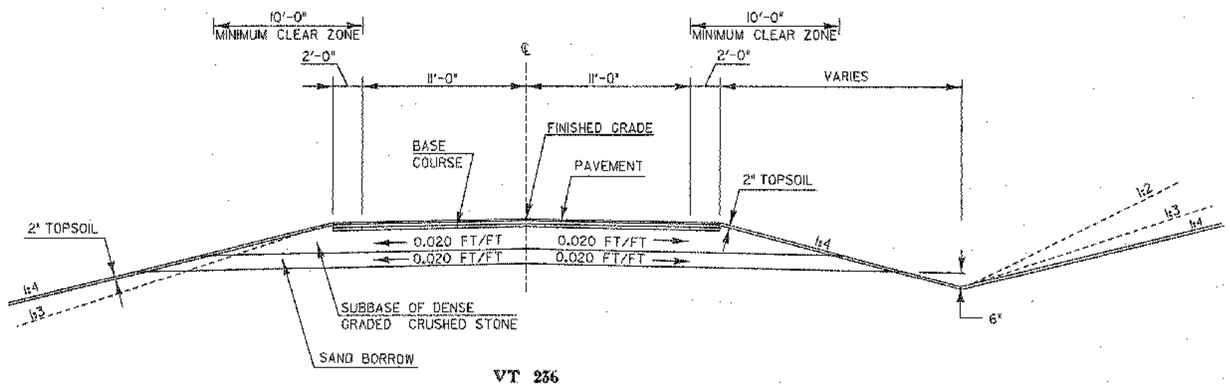


VT 236 MATERIAL TRANSITION DETAIL
NOT TO SCALE

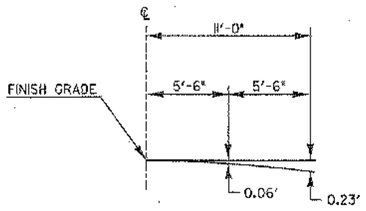


STEP WIDENING DETAIL
STA 20+11 TO STA 20+21, RT

4½" BITUMINOUS CONCRETE PAVEMENT, 2" TYPE III, OVER 2½" TYPE II (TWO LIFTS)
3½" BITUMINOUS CONCRETE PAVEMENT, TYPE I
18" SUBBASE OF DENSE GRADED CRUSHED STONE
12" SAND BORROW
} PG 58-34



VT 236



PARABOLIC DETAIL
11'-0" LANE

SEEDING FORMULA

RURAL AREAS

% WT	lb/ac	NAME	PUR %	GERM %
5.0	4	RED TOP	95	90
37.5	23	CREEPING RED FESCUE	98	85
15.0	9	BIRDSFOOT TREFOIL	98	85
37.5	23	TALL FESCUE	95	90
5.0	4	ANNUAL RYE GRASS	95	85
100.0	63			

GENERAL NOTES

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

SEED: TO BE APPLIED PER SEEDING FORMULAS, OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 lb/ac (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2.0 tons/ac, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2.0 tons/ac, OR AS DIRECTED BY THE ENGINEER.

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

MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.

TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.002 gal/ft2. BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

MATERIALS TOLERANCE TABLE

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	+/- ¼ INCH
SUBBASE (TOTAL DEPTH)	+/- 1 INCH
SAND BORROW (TOTAL DEPTH)	+/- 1 INCH

NOTE :
ALL DIMENSIONS IN FEET (ft) EXCEPT WHERE NOTED

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

NOT TO SCALE

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: Z04C202TYP
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
TYPICAL SECTION - VT 236

PLOT DATE: 02-NOV-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 3 OF 26

QUANTITY SHEET # 1

SUMMARY OF ESTIMATED QUANTITIES

				FULL C.E.	EROSION CONTROL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
						560	560	CY	COMMON EXCAVATION	203.15	5
						155	155	CY	SAND BORROW	203.31	3.7
						535	535	SY	FINE GRADING - SUBGRADE	203.40	4.2
						70	70	CY	TRENCH EXCAVATION OF EARTH	204.20	2.7
						10	10	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	
						150	150	SY	COLD PLANING - BIT. PAVEMENT	210.10	0.5
						275	275	CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	3.9
						0.2	0.2	CWT	EMULSIFIED ASPHALT	404.65	0.05
						260	260	TON	BITUMINOUS CONCRETE PAVEMENT (PG ~~58-34~~ 64)	406.25	5.3
						~~2~~	~~2~~	~~CY~~	~~CONCRETE, CLASS B~~	~~501.25~~	~~0.1~~
						~~160~~	~~160~~	~~LB~~	~~REINFORCING STEEL~~	~~507.15~~	~~2~~
						87	87	LF	18" RCP CLASS IV	601.0816	
						~~1~~	~~1~~	~~EA~~	~~CAST IRON GRATE WITH FRAME, TYPE A~~	~~604.45~~	
						3	3	MGAL	DUST CONTROL WITH WATER	609.10	0.1
					4		4	CY	STONE FILL, TYPE I (MOD. - CHECK DAM)	613.10	
					34		34	CY	STONE FILL, TYPE I (MOD. - CONSTRUCTION ENTRANCE)	613.10	0.7
					1		1	CY	STONE FILL, TYPE I (MOD. - INLET PROTECTION)	613.10	0.9
						6	6	EA	YIELDING MARKER POSTS	619.17	
						133	133	LF	REMOVAL OF EXISTING FENCE	620.55	
						90	90	LF	SNOW FENCE (MOD. - ARCH)	620.70	4.2
						455	455	LF	SNOW FENCE (MOD. - PDF)	620.70	1.6
						64	64	LF	SLEEVES FOR UTILITIES (1 X 2")	625.10	
						51	51	LF	SLEEVES FOR UTILTIES (1 X 6")	625.10	0.5
						~~61~~	~~61~~	~~LF~~	~~SEAMLESS COPPER WATER TUBE (1")~~	~~629.23~~	~~0.5~~
						50	50	HR	UNIFORMED TRAFFIC OFFICERS	630.10	4
						155	155	HR	FLAGGERS	630.15	2
				1			1	LS	TESTING EQUIPMENT - CONCRETE	631.16	
				1			1	LS	TESTING EQUIPMENT - BITUMINOUS	631.17	
						1	1	LS	MOBILIZATION/DEMOBILIZATION	635.11	
						1	1	LS	TRAFFIC CONTROL	641.10	
						375	375	LF	DURABLE 4" WHITE LINE (THERMOPLASTIC)	646.40	4.2
						900	900	LF	DURABLE 4" YELLOW LINE (THERMOPLASTIC)	646.41	14
						26	26	LF	DURABLE 24" STOP BAR (THERMOPLASTIC)	646.46	0.7
						4	4	EA	DURABLE LETTER OR SYMBOL (THERMOPLASTIC)	646.50	
						370	370	LF	TEMPORARY 4" YELLOW LINE (PAINT)	646.61	4
						45	45	EA	LINE STRIPING TARGETS	646.76	
					45		45	SY	GEOTEXTILE FOR SILT FENCE	649.51	1.2
					13		13	LB	SEED	651.15	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: TOTSUMOI.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
QUANTITIES SHEET #1

PLOT DATE: 02-NOV-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 4 OF 26

QUANTITY SHEET # 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

FULL C.E.	EROSION CONTROL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
	60		60	LB	FERTILIZER	651.18	1
	0.3		0.3	TON	AGRICULTURAL LIMESTONE	651.20	0.06
	0.3		0.3	TON	HAY MULCH	651.25	0.06
		32	32	CY	TOPSOIL	651.35	0.3
	1		1	LS	EROSION PREVENTION & SEDIMENT CONTROL PLAN	652.10	
	20		20	HR	MONITORING EROSION PREVENTION & SEDIMENT CONTROL PLAN	652.20	
	1		1	LU	MAINTENANCE OF EROSION PREVENTION & SEDIMENT CONTROL PLAN (N.A.B.I.)	652.30	
		10	10	SF	TRAFFIC SIGNS, TYPE A	675.20	0.82
					*** BEGIN OPTION SIGN POSTS ***		
		88	88	LF	FLANGED CHANNEL SIGN POST	675.301	0.9
		~~88~~	~~88~~	~~LF~~	~~SQUARE TUBE SIGN POSTS AND ANCHOR~~	~~675.341~~	~~0.9~~
					*** END OPTION SIGN POSTS ***		
		17	17	EA	REMOVING SIGNS	675.50	
		11	11	EA	ERECTING SALVAGED SIGNS	675.60	
		7	7	EA	DELINEATORS W/ STEEL POSTS	676.10	(EST)
		1	1	EA	PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE - CHANGE ORDER #1	604.20	
		1	1	LS	SUPPLEMENTAL AGREEMENT (FIELD DRIVE RELOCATION)	900.545	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: TOTSUMOLDGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
QUANTITIES SHEET #2

PLOT DATE: 02-NOV-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 5 OF 26

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	PIPE ARCH S IN	PIPE ARCH R IN	PIPE ARCH L FT	PIPE D IN	PIPE L FT	ALLOWABLE OPTIONS PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP FL TH	PIPE ELBOW NO-DEG	E S EA	CB	EXCAV	DEPTH DI	CONC CL B CY	REIN STEEL LBS	DI GRATE TYPE	CHAN ELEV	CRM CY	TR EXCAV EARTH CY	TR EXCAV ROCK CY	COMM EXC CY	UNC CHAN EXC CY	STRUC EXCAV CY	GRAN BKF STRUC CY	GRAN BORR CY	EROS MATT SY	STONE FILL CY	STONE FILL TYPE	MRKR POSTS LT	MRKR POSTS RT	REMARKS
20+51.8	20+24.9	RT/LT								18	87			IV							1	3.28	~~1.90~~	~~158~~	A			21.1												
20+37.5	20+67.8	RT/LT																										17.3												
20+~~TH~~ 00.0	~~20+91.8~~ 21+02.5	LT/RT																										28.9										1	1	50 6" X 6" SLEEVE FOR 1" WATERLINE
~~5+63.9~~ 50.0	~~5+88.3~~ 62.0	LT/RT																																				1	1	60 64" X 2" SLEEVE FOR UTILITIES (JACKED OR BORED)
TOTALS										18	87			IV								3.28	1.90	158	A			67.3										3	3	

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT
TOTALS				

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB	MKR PST
TOTALS										

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: DRNOI.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
DRAINAGE DETAIL SHEET

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 6 OF 26

EARTHWORKS

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
VT 120									
								CUT	64
4+00.00		27.14				2.89		R. CUT	0
4+25.00	25	34.02	28.3			2.33	2.4	FILL	4
4+50.00	25	42.96	35.6			0.75	1.4	FAC	1.15
								EXC	60
5+50.00		11.20				0.00		CUT	8
5+75.00	25	2.62	6.4			0.00	0.0	R. CUT	0
6+00.00	25	0.00	1.2			0.00	0.0	FILL	0
								FAC	1.15
								EXC	8
PAVEMENT EXCAVATION BEYOND SLOPE LIMITS									
			2.9						
VT 236									
20+11.00		70.93				0.00		CUT	480
20+50.00	39	112.25	132.3			1.58	1.1	R. CUT	0
21+00.00	50	107.24	203.2			0.00	1.5	FILL	3
21+25.00	25	101.99	96.9			0.00	0.0	FAC	1.15
21+50.00	25	0.86	47.6			0.00	0.0	EXC	477

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.

REMARKS	
EARTH AND ROCK EXCAVATION	552
SOLID ROCK EXCAVATION	0
EARTH EXCAVATION	552
PLANIMETERED FILL	7
LESS FACTORED SOLID ROCK (FACTOR = 1.3)	0
LESS FACTORED ROCK OVERBREAKAGE (FACTOR = 1.3)	0
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	0
NET PLANIMETERED FILL	7
FACTOR	0
PLANIMETERED FILL INCLUDING FILL	7
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	552
CHANNEL EXCAVATION	0
UNDERDRAIN EARTH EXCAVATION	0
UNDERDRAIN ROCK EXCAVATION (FACTORED)	0
STRUCTURE EXCAVATION	0
TOTAL MATERIAL AVAILABLE FOR FILL	552
TOTAL FILL INCLUDING FACTOR	7
TOTAL MATERIAL FOR FILL	552
BORROW	
EXCESS EXCAVATION	545

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: EARTH01.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
EARTHWORKS SHEET

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 7 OF 26

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA±	AREA±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
1A	BENJAMIN, NEWELL J. JR.	7	VT120 4+32.48 RT	VT120 4+87.52 RT	960SF							FRANKLIN			
	& NANCY K., LESSOR		VT120 3+82 RT	VT120 4+50 RT			SLOPE	(T)	850SF						
	BENJAMIN, MICHAEL P., LESSEE		VT120 3+75 RT	VT120 4+56 RT			INSTALL	(T)	876SF						PDF
			VT236 22+50 LT				INSTALL	(T)							ROCK CHECK DAM
			VT236 20+53.3 LT												DRIVE 25' WIDE, MM 0493
			VT236 21+23.0 LT												DRIVE 25' WIDE, MM 0491
1B		7	VT120 3+75.00 RT	VT120 5+73.32 LT	0.17A		ALL R.T. & I.					FRANKLIN			VT RTE 120 HWY. EASE.
1C		7	VT120 6+17.27 LT	VT120 7+00.00 RT	3850SF		ALL R.T. & I.					FRANKLIN			VT RTE 120 HWY. EASE.

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
1	6, 7	PARCEL NO. 1, BENJAMIN. ADDED WATER LINE TO LAYOUT SHEET.	09/12/06
		PER C.O. 9474 DRAWN BY: JB APPROVED BY: EP	
		PAPER PRINTS TO A.L.G. VIA ART B. 9-26-06	

PLOT DATE 09/26/06

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CZ — CLEAR ZONE
- P L — PROPERTY LINE
- TOE OF SLOPE
- TOP OF CUT
- SR (P) — SLOPE RIGHT
- CONST. (T) — CONSTRUCTION RIGHT
- PDF —— PDF — PROJECT DEMARCATION FENCE

EC	-EROSION CONTROL
(P)	-PERMANENT
(T)	-TEMPORARY
DR.	-DRAINAGE RIGHT
DIT.	-DITCHING RIGHT
CH.	-CHANNEL RIGHT
DRIVE	-DRIVE RIGHT
CUL.	-CULVERT RIGHT
C&T	-CLEARING & TRIMMING RIGHT
SR	-SLOPE RIGHT
UE	-UTILITY EASEMENT

APPROVED: ROGER P. DUMAS DATE: 09-25-06
CHIEF, PLANS & TITLES

PROJECT NAME: **FRANKLIN**
PROJECT NUMBER: **HES 0313 (4)**

FILE NAME: **04c202.XLS** PLOT DATE: **6/22/06**
PROJECT LEADER: **EGP** DRAWN BY: **JAB**
DESIGNED BY: **EGP** CHECKED BY: **RMG**
R.O.W. SHEET 6 of 7 SHEET **9** OF **26**

N

VT STATE PLANE GRID

BEGIN R.O.W. PROJECT
VT 120 3+75.00, 24.75' RT.

STATE OF VERMONT HWY. EASE. 3 RODS (49.50')

CLASS II WETLAND

MAN-MADE POND

CLASS II WETLAND

CORN FIELD

50 FT WETLAND BUFFER

BEGIN APPROACH
STA 3+75.00

N69°29'41"E

VT 120

VT 120 3+75.00
24.75' LT

49.50'

3+00

4+00

PC Sta 4+32.48

HISTORIC STRUCTURE

S35°06'16"E

BENJAMIN, NEWELL J. JR. & NANCY K., LESSOR; BENJAMIN, MICHAEL P., LESSEE

FARMLAND

50 FT WETLAND BUFFER

ROCK CHECK DAM

RETAIN EXISTING WATERLINE

PC Sta 20+14.98

INSTALL (T) PDF

SR(T)

42.80'

60.18'

1A

VT 120 4+32.48
24.75' RT

185.17'

VT 120 4+87.52
24.75' RT

R=30'

STA 20+37.5, 12.0 RT TO
STA 20+67.8, 24.1 LT
REMOVE 48 FT X 15 IN CGMP

VT 236 20+89.82
33.00' RT

RETAIN

PDF

47.81'

S18°33'20"W

STATE OF VERMONT WD 23/303 1968 66.00'

23+00

22+00

21+00

VT 236

CLASS III WETLAND

ARCH

INSTALL (T)

ROCK CHECK DAM

END APPROACH
STA 22+00.00
SAWCUT TO MATCH
EXISTING PAVEMENT

CORN FIELD

HDWY

END PROJECT
STA 21+00.00

VT 236 20+89.82
33.00' LT

PT Sta 20+89.82

RETAIN

VT 236 20+50.00
33.00' LT

UE

W

4" PVC

STA 20+51.8, 49.2 RT TO STA 20+24.9, 37.9 LT
CONSTRUCT 87 FT X 15 IN RCP, CLASS IV
CONSTRUCT RCDI-A WITH TYPE A GRATE
AT STA 20+24.9, 37.9 LT

BENJAMIN, NEWELL J. JR. & NANCY K., LESSOR; BENJAMIN, MICHAEL P., LESSEE

VT 236
CURVE #1

PI = 20+55.36
N = 909212.493
E = 1554299.642
△ = 53°39'36" RT
R = 80.00 FT
D = 71°37'11"
L = 74.92 FT
T = 40.46 FT
E = 9.65 FT
e = 3.0%

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

CONSTRUCT DRIVE
STA 20+53.3, LT
STA 21+23.0, LT

VT 120 STA 5+00.00 =
VT 236 STA 20+00.00

HISTORIC STRUCTURE

VT 120 5+73.32
24.75' LT

EXISTING R.O.W. CALCULATED POINT VT 120 6+14.88, 35.33' LT

38.29'

RETAIN EXISTING WATERLINE

PT Sta 6+61.47

VT 120 6+17.27
24.75' LT

78.60'

50.23'

R

98.41'

R=50'

5+00

6+00

7+00

8+00

1C

49.50'

N19°58'59"E

STATE OF VERMONT HWY. EASE. 3 RODS (49.50')

VT 120

AREA QUIT-CLAIMED TO BENJAMIN 1,272 SF ±

76.84'

55.90'

4.93'

184.63'

VT 120 5+75.00
24.75' RT

HISTORIC STRUCTURE

VT 120 6+26.12
24.75' RT

77.18'

EXISTING R.O.W. CALCULATED POINT VT 120 6+26.83, 29.62' RT

BEGIN PROJECT
STA 20+11.00
MATCH EXISTING
PAVEMENT

APPLY 2" TOPSOIL AND SEED AND MULCH.
SEE CROSS SECTIONS FOR GRADING.

VT 120 7+00.00
24.75' LT

END APPROACH
STA 7+00.00

END R.O.W. PROJECT
VT 120 7+00.00, 24.75' RT.

VT 120
CURVE #1

PI = 5+54.68
N = 909269.178
E = 1554322.697
△ = 49°30'42" LT
R = 265.00 FT
D = 21°37'16"
L = 229.00 FT
T = 122.20 FT
E = 26.82 FT
e = 5.2%

ROCK CHECK DAMS
STA 4+04.4, RT
STA 22+50.0, LT

LEGEND
— UE — EXISTING UNDERGROUND ELECTRIC
— UT — EXISTING UNDERGROUND TELEPHONE
— W — EXISTING WATERLINE

0 20 40
SCALE 1" = 20'

LAYOUT PLAN

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME:
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
ROW SHEET 7 OF 7 SHEETS

PLOT DATE: 26-SEP-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 10 OF 26

GPS CONTROL POINTS

HVCTRL #1

Franklin Az Mk
Northing 908334.77
Easting 1551937.16
Elev: 436.94

To reach from the Intersection of VT route 120 (Lake Road) and VT route 236 (State Park Road), go southwest along route 120 for 0.4 mi to the site of the mark on the left, just south of a field drive. The mark is set 2 3/4 inches below ground surface in the top of a Feno style monument. It is 23.3 ft south of and about 6 in lower than the centerline of route 120, 372.5 ft east southeast of and across the road from an unnumbered pole, 19.7 ft east of the centerline of the field drive, 239.5 ft west of the center of the south (inlet) and of a 12 in diameter metal culvert, and 1 ft north of a fiberglass witness post.

HVCTRL #2

Franklin
Northing 909262.34
Easting 1554149.96
Elev: 473.52

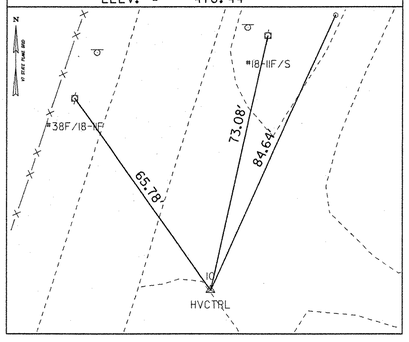
To reach from the Intersection of VT route 120 (Lake Road) and VT route 236 (State Park Road), go southwest along route 120 for 164 ft to the site of the mark on the right. The mark is set in the top of the south end of a 24.5 ft x 1.5 ft rock outcrop which projects 1 ft above ground surface. It is 54 ft north of and about .5 ft higher than the centerline of route 120, 155.5 ft northwest of the centerline of route 236, 89.3 ft west southwestof the south corner of a barn, 70.9 ft southwest of the west corner of the barn, 287 ft east of a wire fence and 181.5 ft west of pole #38F/18/11/E with meter and lumen.

* Description provided by Vermont Agency of Transportation Geodetic Survey Unit

TRAVERSE TIES

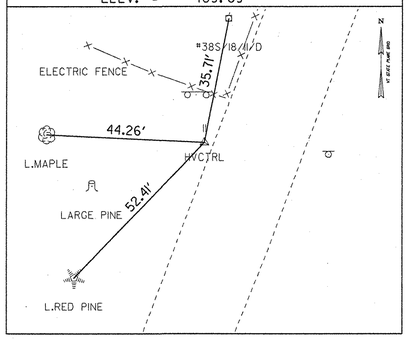
HVCTRL #10

NORTH = 909103.60
EAST = 1554296.58
ELEV. = 478.44



HVCTRL #11

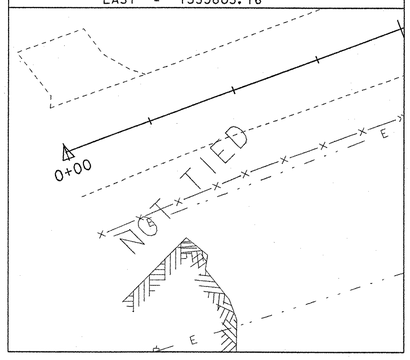
NORTH = 909435.17
EAST = 1554367.51
ELELV. = 469.09



ALIGNMENT TIES

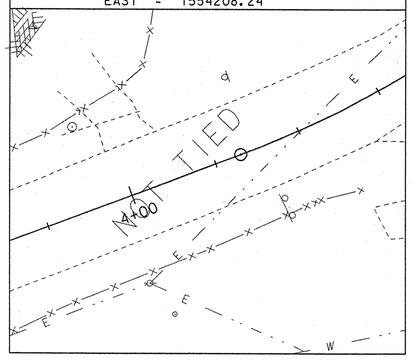
POT 0+00.00

NORTH = 909074.88
EAST = 1553803.16



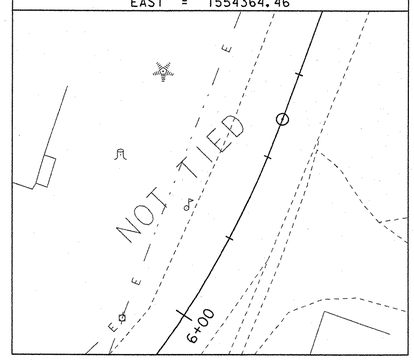
PC 4+32.48

NORTH = 909226.37
EAST = 1554208.24



PT 6+61.47

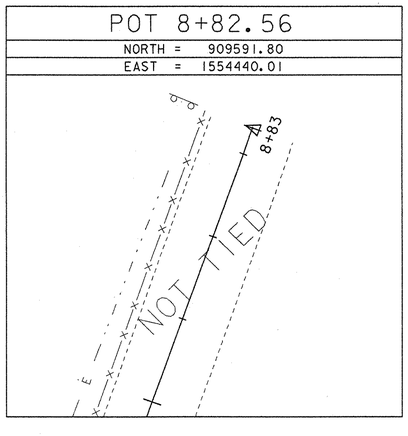
NORTH = 909384.02
EAST = 1554364.46



ALIGNMENT TIES

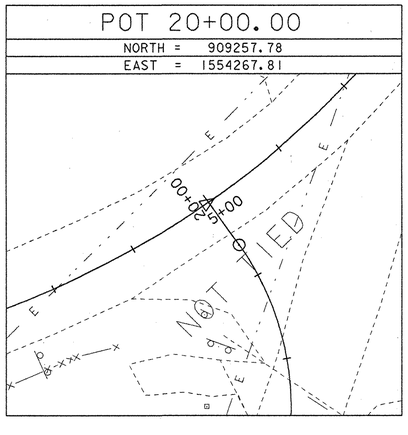
POT 8+82.56

NORTH = 909591.80
EAST = 1554440.01



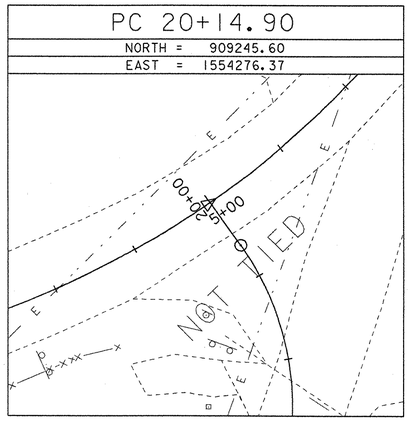
POT 20+00.00

NORTH = 909257.78
EAST = 1554267.81



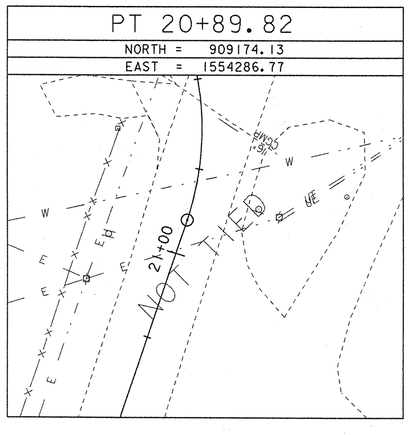
PC 20+14.90

NORTH = 909245.60
EAST = 1554276.37



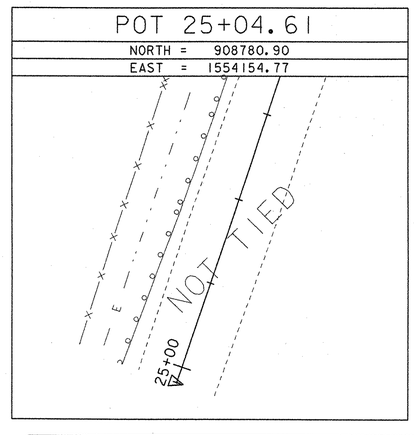
PT 20+89.82

NORTH = 909174.13
EAST = 1554286.77



POT 25+04.61

NORTH = 908780.90
EAST = 1554154.77

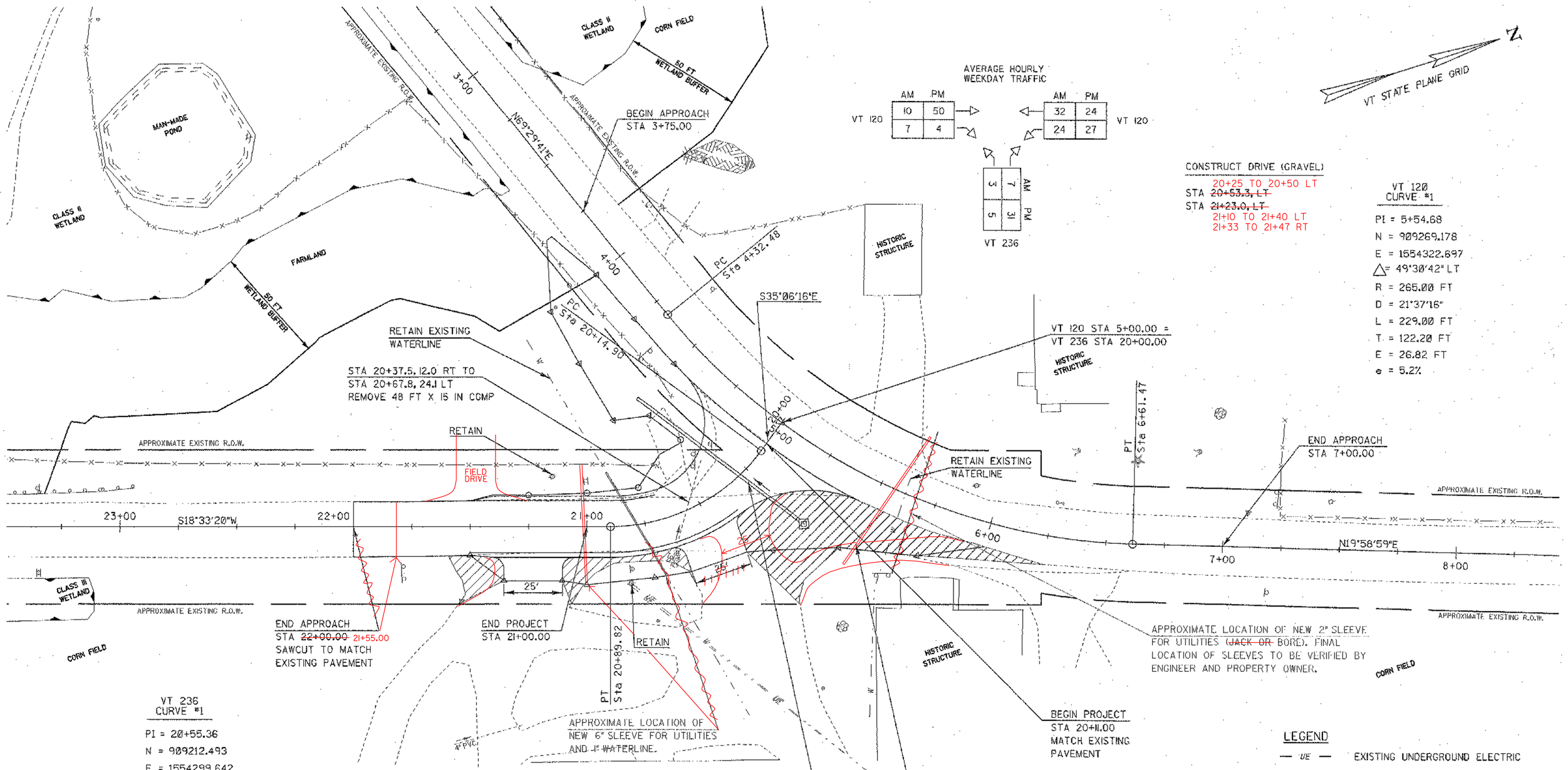


DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: Z04C202T1.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
TIE SHEET

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 11 OF 26

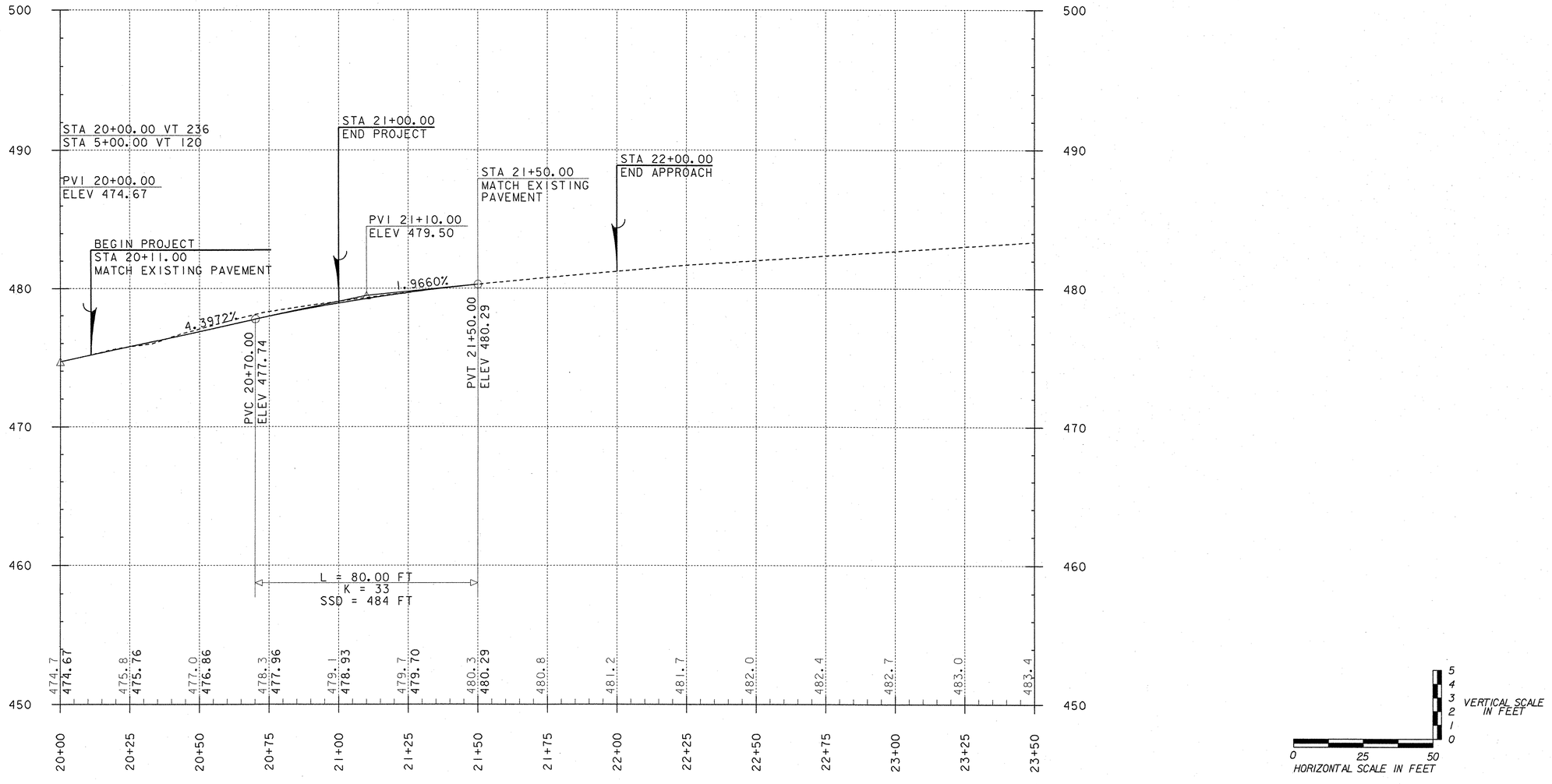


DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: L01.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
LAYOUT PLAN

PLOT DATE: 02-NOV-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 12 OF 26



VT 236

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: PROFO1.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
PROFILE - VT 236

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 13 OF 26

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONFIGURATION OF THE INTERSECTION OF VERMONT ROUTE 120 AND ROUTE 236 LOCATED IN THE TOWN OF FRANKLIN. THE VT 236 LEG WILL BE REALIGNED TO CREATE A 90 DEGREE INTERSECTION. THE PORTION OF VT 236 THAT WILL BE REALIGNED WILL BE CONSTRUCTED USING A FULL DEPTH OF SUBBASE. THE TOTAL ROADWAY WORK IS APPROXIMATELY 150 FEET. NATURAL RESOURCES NEAR THE PROJECT AREA HAVE BEEN CLEARLY IDENTIFIED AND SHOWN ON THE EXISTING CONDITIONS SITE PLAN SHEET.

IT IS ANTICIPATED THAT THIS PROJECT WILL BE COMPLETED IN ONE CONSTRUCTION SEASON WITH NO WORK BEING DONE OUTSIDE THE PLANTING SEASON.

TOTAL DISTURBED AREA (EXCLUDING WASTE AND BORROW AREAS):
14,100 SF (0.33 ACRES)
THE TOTAL DISTURBED AREA IS AN ESTIMATE . ALL ON-SITE AND OFF-SITE WASTE AND BORROW AREAS AND HAUL ROADS NEED PRIOR WRITTEN CLEARANCE BY VTRANS ENVIRONMENTAL SECTION PRIOR TO THE BEGINNING OF CONSTRUCTION.

SITE INVENTORY AND ANALYSIS

OFF SITE DRAINAGE CHARACTERISTICS:

THE AREA SURROUNDING THE PROJECT SITE DRAINS FROM THE NORTHEAST TO THE SOUTHWEST. STORMWATER SHEET FLOWS OVER THE FARMLAND AND IS COLLECTED IN EITHER ROADSIDE DITCHES OR IS INTERCEPTED BY A WATERCOURSE LOCATED TO THE WEST. THE WATERCOURSE DRAINS FROM THE SOUTH TO THE NORTH. DRAINAGE FROM THE ROADWAY SURFACE IS COLLECTED IN ROADSIDE DITCHES AND CONVEYED TO AN EXISTING WATERCOURSE LOCATED TO THE WEST. THE SURROUNDING AREA CONSISTS OF FARMLAND AND CROP GROWING AREAS.

DRAINAGE, WATERWAYS, BODIES OF WATER:

THERE IS AN EXISTING WATERCOURSE THAT EXISTS SOUTHWEST OF A MAN-MADE POND LOCATED BETWEEN VT 120 AND VT 236. THIS WATERCOURSE FLOWS FROM THE SOUTH TO THE NORTH. IT PASSES UNDER VT 236 THROUGH AN 18" CULVERT AND UNDER VT 120 THROUGH AN EXISTING CULVERT. A CLASS II WETLAND EXISTS ADJACENT TO THIS WATERCOURSE AND IS SHOWN ON THE EXISTING CONDITIONS PLAN. A MAN-MADE POND LOCATED EAST OF THE WATERCOURSE IS THE ONLY BODY OF WATER LOCATED NEAR THE PROJECT AREA.

TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES:

THE TOPOGRAPHY OF THE AREA NEAR THE PROJECT SITE IS SLOPING DOWN TO THE SOUTHWEST. THERE IS A HIGH POINT ON VT 120 LOCATED AT THE EXISTING INTERSECTION. NORTH OF THE HIGH POINT, THE ROADWAY SLOPES DOWN TO THE NORTH. THE LAND BECOMES STEEPER NEAR THE MAN-MADE POND. BOTH VT 120 AND VT 236 ARE RURAL MAJOR COLLECTORS WITH PAVED SURFACES. THERE IS AN EXISTING HOME LOCATED TO THE WEST OF THE INTERSECTION AND AN EXISTING BARN LOCATED TO THE EAST OF THE INTERSECTION. OVERHEAD UTILITY LINES EXIST ADJACENT TO BOTH VT 120 AND VT 236. OVERHEAD UTILITIES WILL NOT BE IMPACTED AS PART OF THIS PROJECT.

VEGETATION:

THE VEGETATION LOCATED BETWEEN VT 236 AND VT 120 IN THE AREA OF THE PROJECT CONSISTS OF MAINLY FARMLAND. VEGETATION LOCATED EAST OF VT 236 IS PRIMARILY CORNFIELD. VEGETATION LOCATED WEST OF VT 120 IS ALSO PREDOMINANTLY CORNFIELD.

DURING CONSTRUCTION, DISTURBED AREAS WILL BE SEEDED AND MULCHED. FOLLOWING CONSTRUCTION, ANY DISTURBED AREAS ADJACENT TO THE ROADWAY WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

SOILS:

THE SOILS IN THE AREA CONSIST OF A WESTBURY STONY FINE SANDY LOAM. WESTBURY HAS A "K" VALUE OF 0.28. THIS TYPE OF SOIL IS CONSIDERED TO HAVE MODERATE ERODABILITY POTENTIAL.

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

SENSITIVE RESOURCE AREAS:

HISTORICAL AND ARCHAEOLOGICAL AREAS ARE LOCATED NEAR THE PROJECT AREA. A CLASS II WETLAND AND BUFFER ARE ALSO LOCATED NEAR THE PROJECT AREA. ALL OF THE SENSITIVE AREAS ARE LOCATED IN CLOSE PROXIMITY TO THE PROJECT. EACH OF THESE AREAS IS CLEARLY MARKED ON THE PLANS. TEMPORARY EROSION CONTROL MEASURES WILL BE USED TO MINIMIZE THE EFFECT OF CONSTRUCTION ACTIVITIES ON ANY SENSITIVE RESOURCE AREAS.

THERE HAVE BEEN NO THREATENED AND ENDANGERED SPECIES IDENTIFIED WITHIN THE PROJECT LIMITS.

PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES:

THE DISTURBANCE OF SOIL NEAR NATURAL OR MAN-MADE WATER FEATURES WILL BE NECESSARY TO RECONSTRUCT THE INTERSECTION. THE DISTURBED AREAS WILL BE STABILIZED WITH STANDARD SEED AND MULCH PRACTICES DURING CONSTRUCTION AND ONCE CONSTRUCTION IS COMPLETE.

TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL

TEMPORARY EROSION PREVENTION MEASURES TO BE UTILIZED INCLUDE:

PROJECT DEMARCATION FENCING (ITEM 620.70 - SNOW FENCE (MOD. - PDF)), DENOTED -PDF-PDF- ON THE PLANS, SHALL DELINEATE THE LIMITS THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION EQUIPMENT. THIS MEASURE LIMITS THE AREA THAT CAN BE DISTURBED AND EXPOSED TO EROSION. PDF MAY BE LOCATED IN CLOSE PROXIMITY TO THE PROPOSED SLOPE LINE IN ORDER TO KEEP CONSTRUCTION ACTIVITY OUT OF SENSITIVE AREAS.

MULCHING WILL BE UTILIZED ON A REGULAR BASIS. ANY SOIL TO BE EXPOSED FOR SEVERAL DAYS PRIOR TO FINAL GRADING SHALL BE MULCHED. SOIL SHALL BE STABILIZED WITHIN 48 HOURS PRIOR TO FORECASTED RAIN.

SEEDING AND MULCHING SHALL BE UTILIZED TO STABILIZE SOIL. SOIL SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE AND/OR DURING INTERMITTENT PHASES OF CONSTRUCTION.

SILT FENCE WILL BE INSTALLED AT THE TOE OF FILL SLOPES TO PREVENT SEDIMENT TRANSPORT TO DOWN GRADIENT AREAS. EACH LINE OF SILT FENCE WILL BE PLACED ALONG THE CONTOUR WITH THE LOWER EDGE BURIED 6" TO PREVENT UNDERFLOW AND ENDS TURNED SLIGHTLY UP GRADE TO CREATE A PONDING EFFECT. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY UPSLOPE EARTHWORK. SILT FENCE SHALL BE PLACED AS SHOWN ON THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN.

INLETS SHALL BE SURROUNDED BY STONE CHECK DAMS OR SILT FENCE TO LIMIT THE AMOUNT OF SEDIMENT THAT ENTERS THE INLET. INLET PROTECTION SHALL BE PLACED AS SHOWN ON THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND PER THE DETAIL SHOWN IN THE PLANS. THIS MEASURE SHALL BE INSTALLED ONCE THE GRADE ADJACENT TO THE INLET IS WITHIN SIX INCHES OF FINAL GRADE. INLETS SHALL BE CLEANED WHEN THE SUMP BECOMES FILLED WITH SEDIMENT AND AT THE COMPLETION OF CONSTRUCTION.

STONE CHECK DAMS WILL BE INSTALLED IN DITCH LINES TO FORCE STORMWATER TO POND AND LIMIT SEDIMENT TRANSPORT. STONE CHECK DAMS SHALL BE PLACED AS SHOWN ON THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND PER THE DETAIL SHOWN IN THE PLANS.

AT LOCATIONS WHERE CONSTRUCTION VEHICLES WILL BE ENTERING OR LEAVING THE CONSTRUCTION SITE/STAGING AREAS, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED TO LIMIT THE AMOUNT OF SEDIMENT THAT IS TRANSPORTED OFF OF THE SITE BY CONSTRUCTION VEHICLES. STONE WILL BE USED TO REMOVE SEDIMENT FROM THE TIRES OF CONSTRUCTION VEHICLES. IF SEDIMENT IS STILL BEING TRACKED ONTO PUBLIC ROADS, THE LENGTH OF THE PAD SHALL BE EXTENDED OR VEHICLES SHALL BE RINSED WITH A HOSE PRIOR TO LEAVING THE SITE.

TEMPORARY EROSION CONTROL MEASURES SHALL BE REGULARLY INSPECTED AND MAINTAINED FOR LIMITING SEDIMENT BUILD-UP. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT REACHES ONE-HALF THE HEIGHT OF THE CONTROL MEASURE. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE SUCH THAT IT WILL NOT BE SUBJECT TO EROSION.

THE STAGING AREA LOCATION IS SHOWN ON THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN. ANY CHANGES TO THIS LOCATION MUST BE APPROVED BY THE RESIDENT ENGINEER AND VTRANS ENVIRONMENTAL SECTION.

PERMANENT EROSION CONTROL MEASURES

PERMANENT EROSION CONTROL MEASURES TO BE UTILIZED INCLUDE:

ALL DISTURBED SOIL SHALL BE STABILIZED WITH SEED AND MULCH.

GENERAL EROSION AND SEDIMENT CONTROL GUIDELINES

THE CONSTRUCTION SEASON SHALL BE FROM MAY 1 TO OCTOBER 15. IF ANY EARTHWORK IS TO BE PERFORMED OUTSIDE THE CONSTRUCTION SEASON, A WINTER EROSION AND SEDIMENT CONTROL PLAN DESCRIBING ALTERNATIVE STABILIZATION METHODS SHALL BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO AUGUST 15 FOR APPROVAL.

THE CONTRACTOR SHALL STOCKPILE MATERIAL WITHIN THE STAGING AREA ONLY. STOCKPILES SHALL BE STABILIZED WITHIN 48 HOURS PRIOR TO FORECASTED RAIN.

FUELING AND MAINTENANCE OF CONSTRUCTION VEHICLES SHALL BE LIMITED TO THE STAGING AREAS AND SHALL BE DONE BY QUALIFIED PERSONNEL.

THE EROSION CONTROL PLANS ARE MEANT TO BE A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE PROJECT TO CONTROL EROSION AND MINIMIZE THE SEDIMENTATION OF RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORMWATER CONTROLS, AND OTHER POLLUTION PREVENTION CONTROLS.

COORDINATE THE INSTALLATION, USE, AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES WITH CONSTRUCTION ACTIVITIES TO ENSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION AND SEDIMENT CONTROL. EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES AS CONSTRUCTION PROCEEDS. THE CONTRACTOR SHALL USE ADDITIONAL EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION, FIELD CONDITIONS, AND AS DIRECTED BY THE ENGINEER OR ONSITE COORDINATOR. SEE SECTION 105.23 OR THE VERMONT AOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001.

INSTALL EROSION AND SEDIMENT CONTROLS MEASURES AS SHOWN IN THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN OR AS DIRECTED BY THE ENGINEER OR ONSITE COORDINATOR. DO NOT MODIFY THE TYPE, SIZE, OR LOCATION OF ANY CONTROL OR PRACTICE WITHOUT APPROVAL OF THE ENGINEER OR ONSITE COORDINATOR. ANY CHANGES SHALL BE NOTED ON THE PLANS, IN THE WEEKLY INSPECTION REPORT, AND REPORTED TO THE APPROPRIATE AUTHORITY IN A TIMELY MANNER. INSPECT ALL CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL EVENT THAT PRODUCES RUNOFF FROM THE PROJECT SITE. REPAIR MEASURES PROMPTLY ONCE DAMAGE IS DISCOVERED.

PREVENTING INITIAL SOIL EROSION IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. THEREFORE, STABILIZE ALL DISTURBED AREAS PROMPTLY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY VEGETATION SHALL BE ESTABLISHED IF THE AREA IS TO BE WITHOUT CONSTRUCTION ACTIVITY FOR A PERIOD OF 14 DAYS. PERIMETER CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY. INSTALL OTHER TEMPORARY CONTROLS IN INCREMENTAL STAGES AS CONSTRUCTION PROCEEDS.

MAINTAINING VEGETATED BUFFERS ALONG THE STREAM BANKS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE EMPLOYED WHENEVER POSSIBLE.

CONTROL ONLY SEDIMENT LADEN STORMWATER RUNOFF GENERATED BY THE PROJECT SITE. COLLECT AND ROUTE CLEAN STORMWATER AROUND THE PROJECT SITE WHENEVER POSSIBLE USING DIVERSION BERMS, CHANNELS, CULVERTS, OR TEMPORARY PIPES.

DO NOT ALLOW CONSTRUCTION EQUIPMENT TO OPERATE OUTSIDE OF PERIMETER CONTROL MEASURES.

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: ECOI.DGN	PLOT DATE: 11-OCT-2006
PROJECT LEADER: GAMBLE	DRAWN BY: MJF
DESIGNED BY: BRC	CHECKED BY: DMB
EROSION CONTROL NARRATIVE	SHEET 14 OF 26

VT STATE PLANE GRID

MAN-MADE POND

CLASS II WETLAND

FARMLAND

CLASS II WETLAND

CORN FIELD

50 FT WETLAND BUFFER

50 FT WETLAND BUFFER

APPROXIMATE EXISTING R.O.W.

AER E&T

HISTORIC STRUCTURE

HISTORIC STRUCTURE

HISTORIC STRUCTURE

CLASS III WETLAND

CORN FIELD

CORN FIELD

ARCH

465 470 475 480

LEGEND

EXISTING DRAINAGE PATTERNS

WETLANDS

ARCHAEOLOGICAL AREAS

0 20 40

SCALE IN FEET

DATUM

VERTICAL: NAVD 88

HORIZONTAL: NAD83

PROJECT NAME: FRANKLIN

PROJECT NUMBER: HES 0313(4)

FILE NAME: EC02.DGN

PROJECT LEADER: GAMBLE

DESIGNED BY: BRC

EXISTING CONDITIONS SITE PLAN

PLOT DATE: 11-OCT-2006

DRAWN BY: MJF

CHECKED BY: DMB

SHEET 15 OF 26

NOTES:

1. THE EROSION CONTROL MEASURES SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL EROSION CONTROL PLAN SHALL BE BASED ON EXISTING FIELD CONDITIONS AND SUBMITTED BY THE CONTRACTOR FOR APPROVAL TO THE ENGINEER. PAYMENT FOR THE DEVELOPMENT OF THE EROSION CONTROL PLAN SHALL BE INCLUDED IN ITEM 652.10 - EROSION PREVENTION AND SEDIMENT CONTROL PLAN.

2. MONITORING AND MAINTAINING THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE PER ITEM 652.20 - MONITORING EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND ITEM 652.30 - MAINTENANCE OF EROSION PREVENTION AND SEDIMENT CONTROL PLAN.

3. PROJECT DEMARCATION FENCING SHALL BE PLACED AS SHOWN ON THIS PLAN. ANY CHANGES TO THE PROPOSED LAYOUT SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER.

4. FOR CLARITY, AREAS TO BE SEEDED AND MULCHED HAVE NOT BEEN INDICATED. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS APPLICABLE.

5. THE LOCATION OF ANY WASTE OR BORROW AREAS AND HAUL ROADS SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL TO THE ENGINEER AND VTRANS ENVIROMENTAL SECTION. THE LOCATION OF ANY CONSTRUCTION ENTRANCES SHALL ALSO BE SHOWN ON THE SUBMITTAL.

VT STATE PLANE GRID

MAN-MADE POND
CLASS II WETLAND
FARMLAND
50 FT WETLAND BUFFER
CLASS II WETLAND
CORN FIELD
50 FT WETLAND BUFFER
APPROXIMATE EXISTING R.O.W.
BEGIN APPROACH STA 3+75.00
VT 120
STONE CHECK DAM
PROJECT DEMARCATION FENCE (TYP.)
SILT FENCE (TYP.)
HISTORIC STRUCTURE
HISTORIC STRUCTURE
R=30'
R=50'
END APPROACH STA 7+00.00
APPROXIMATE EXISTING R.O.W.
VT 236
VT 120
CLASS III WETLAND
APPROXIMATE EXISTING R.O.W.
END APPROACH STA 22+00.00 SAWCUT TO MATCH EXISTING PAVEMENT
END PROJECT STA 21+00.00
INLET PROTECTION FILTER
STONE CHECK DAM
CORN FIELD
HISTORIC STRUCTURE
BEGIN PROJECT STA 20+11.00 MATCH EXISTING PAVEMENT
EXISTING DRAINAGE PIPE TO BE REMOVED
APPROXIMATE LOCATION OF STAGING AREA
CORN FIELD

LEGEND

- PDF — PROJECT DEMARCATION FENCE
- SILT FENCE
- STONE CHECK DAM
- DRAINAGE PATTERNS
- WETLANDS
- ARCH — ARCHAEOLOGICAL AREAS
- ARCH FENCE — ARCHAEOLOGICAL FENCE

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

SNOW FENCE (MOD-ARCH)
STA 21+~~55.2,~~ 60.0 LT TO STA 22+00.0, LT

GEOTEXTILE FOR SILT FENCE
4+55 (VT 120)
STA ~~20+39.2,~~ TO STA 21+50.0, RT
STA 20+52 TO STA 21+05.0 LT

SNOW FENCE (MOD-PDF)
STA 3+75.0, RT TO STA 21+50.0, RT
5+50 STA ~~5+23.7,~~ RT TO STA ~~5+83.5,~~ RT+85
STA 20+~~62.1,~~ 52 LT TO STA 21+~~53.0,~~ +05 LT

STONE FILL, TYPE I (MOD-CHECK DAMS)
50.0
STA 3+~~75.0,~~ RT
STA 22+50.0, LT

NOTES:

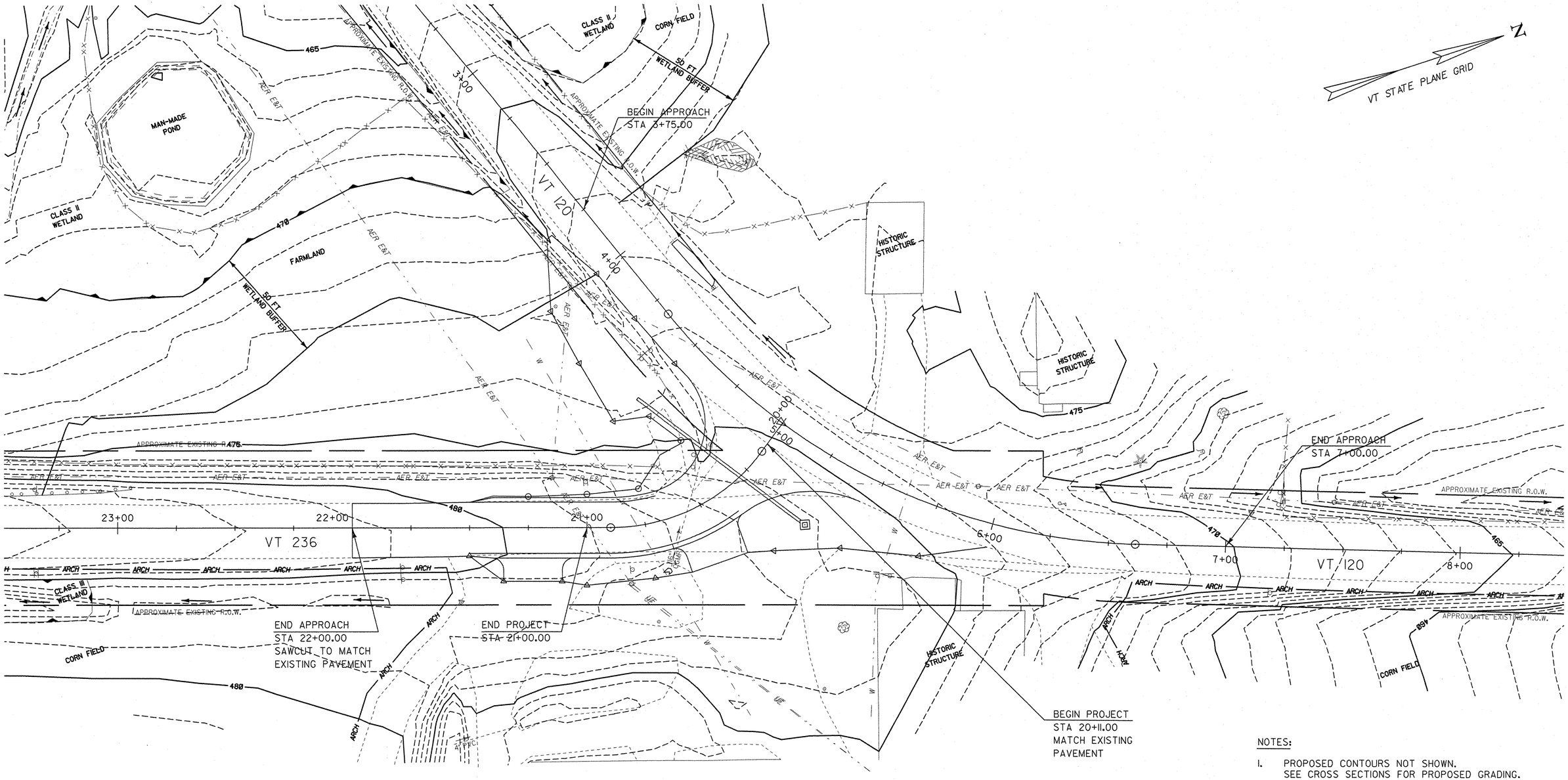
1. PROPOSED CONTOURS NOT SHOWN. SEE CROSS SECTIONS FOR PROPOSED GRADING.
2. DISTURBED SOIL SHALL BE SEEDED AND MULCHED TO ESTABLISH PERMANENT STABILIZATION.

0 20 40
SCALE IN FEET

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: ECO3.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
EPSC PLAN

PLOT DATE: 02-NOV-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 16 OF 26



NOTES:

1. PROPOSED CONTOURS NOT SHOWN.
   SEE CROSS SECTIONS FOR PROPOSED GRADING.
2. DISTURBED SOIL SHALL BE SEEDED AND
   MULCHED TO ESTABLISH PERMANENT STABILIZATION.

0 20 40
SCALE IN FEET

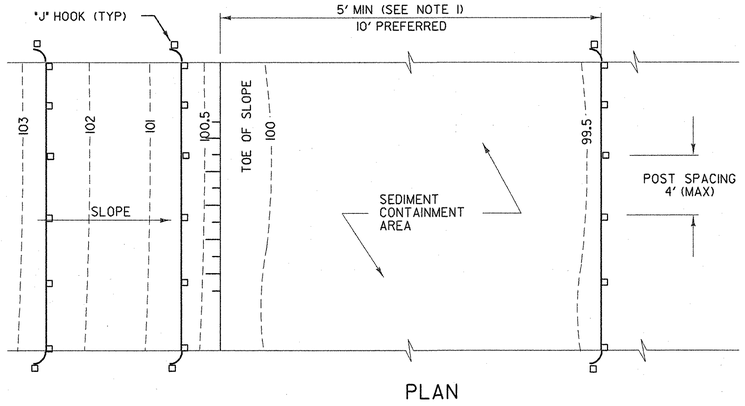
FINAL CONDITIONS SITE PLAN

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

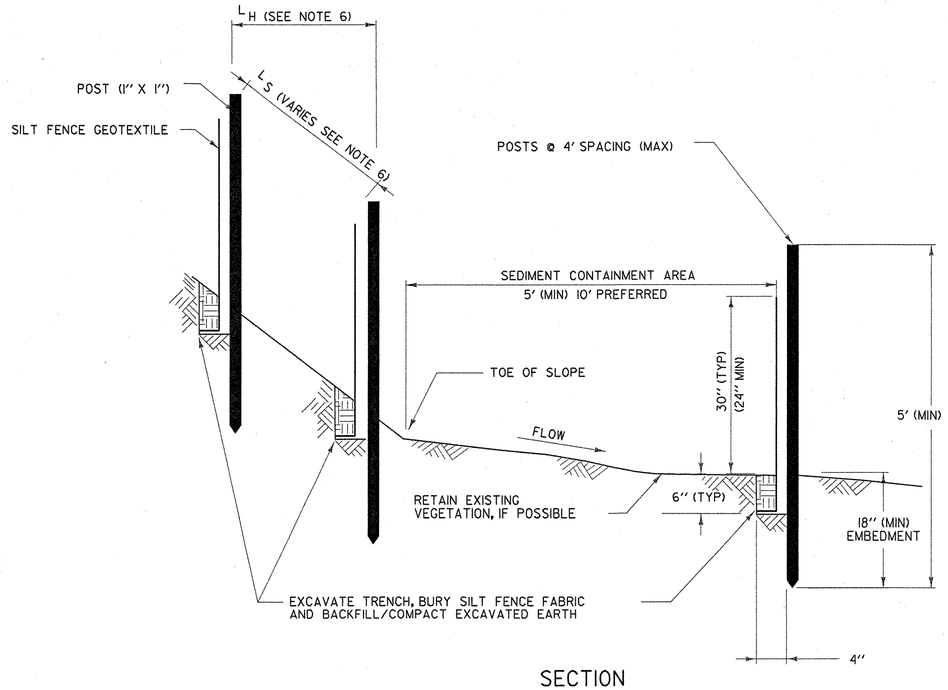
PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: EC04.DGN	PLOT DATE: 11-OCT-2006
PROJECT LEADER: GAMBLE	DRAWN BY: MJF
DESIGNED BY: BRC	CHECKED BY: DMB
FINAL CONDITIONS SITE PLAN	SHEET 17 OF 26

SILT FENCE



PLAN



SECTION

SILT FENCE - TEMPORARY

APPLICATION NOTES:

A. THE PRIMARY PURPOSE OF SILT FENCE IS TO REDUCE RUNOFF VELOCITY AND TRAP SEDIMENT. VELOCITY IS REDUCED, WATER IS IMPOUNDED BEHIND THE MEASURE, AND SEDIMENT FALLS OUT OF SUSPENSION.

B. SILT FENCE SHALL BE INSTALLED ON A LINE OF EQUAL ELEVATION (CONTOUR). IT MAY BE INSTALLED AT INTERMEDIATE POINTS UP SLOPES AS WELL AS AT THE BOTTOM, AS SHOWN IN THE DETAIL.

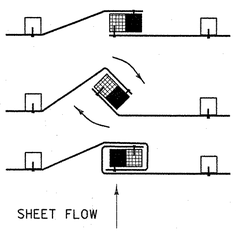
C. SILT FENCE SHALL NOT BE USED ACROSS CONCENTRATED FLOW.

GENERAL NOTES:

1. SILT FENCE SHALL GENERALLY BE PLACED A MINIMUM OF 5 FEET BEYOND TOE OF SLOPE, 10 FEET PREFERRED, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
2. ALL ENDS SHALL BE "J" HOOKED TO TRAP SEDIMENT.
3. IN AREAS WITH TWO SLOPES, SILT FENCE SHALL BE USED TO ERECT A DAM AND TRAP SEDIMENT AT THE BASE OF THE STEEPER SLOPE.
4. THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 6 INCHES BELOW GROUND, AND KEYED IN 4 INCHES. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
5. MAXIMUM DRAINAGE AREA TRIBUTARY TO 100 FEET OF SILT FENCE SHALL BE 0.25 ACRES.
6. THE FOLLOWING ARE MAXIMUM SLOPE LENGTHS FOR THESE MEASURES:

CONSTRUCTED SLOPE	SLOPE LENGTH (LS) FT	HORIZONTAL LENGTH (LH) FT
3 : 1	80	75
4 : 1	130	125
5 : 1	200	200
> 5 : 1	250	250

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 CLEANED AND REPAIRED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
9. SILT FENCE SHALL BE REMOVED WHEN THE AREA HAS BEEN STABILIZED. AT TIME OF REMOVAL OF THE SILT FENCE, THE DISTURBED AREA SHALL BE REPAIRED AND STABILIZED.
10. PAYMENT FOR INSTALLATION AND REMOVAL OF SILT FENCE SHALL BE MADE UNDER THE GEOTEXTILE FOR SILT FENCE ITEM.
11. PAYMENT FOR MONITORING SILT FENCE SHALL BE MADE UNDER THE MONITORING EROSION & SEDIMENT CONTROL PLAN ITEM.
12. PAYMENT FOR MAINTAINING SILT FENCE SHALL BE MADE UNDER THE FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN ITEM, UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.



1. PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE.
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL
3. DRIVE BOTH POSTS 18 INCHES INTO THE GROUND AND BURY THE FLAP IN THE TRENCH.

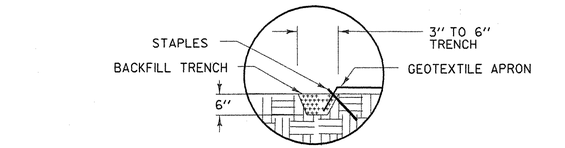
SPLICING DETAIL

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

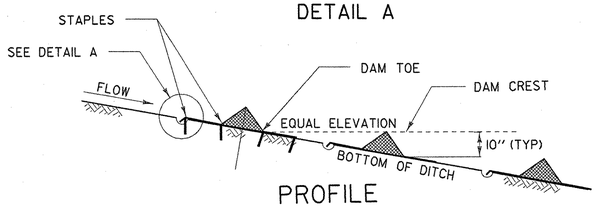
PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: EPSC-1.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
EPSC DETAILS

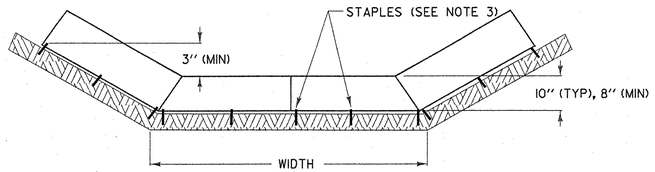
PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 18 OF 26



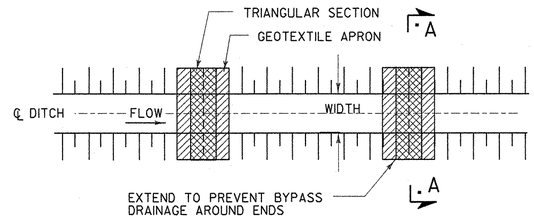
DETAIL A



PROFILE



SECTION A-A

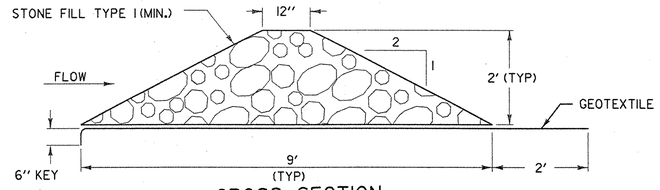


PLAN

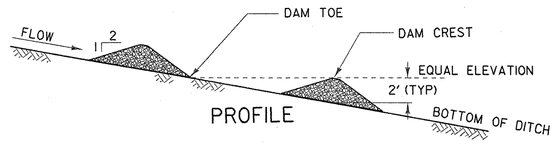
CHECK DAM - TEMPORARY (PREFABRICATED)

PREFABRICATED CHECK DAM PLACEMENT INTERVAL	
DITCH SLOPE	PLACEMENT INTERVAL **
1%	50 FT
2 %	40 FT
3 %	25 FT
4 %	20 FT
5 %	15 FT

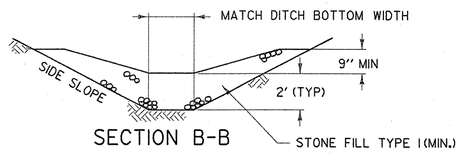
** BASED ON 10'' TYPICAL HEIGHT



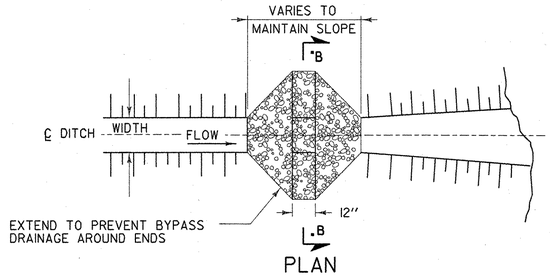
CROSS SECTION



PROFILE



SECTION B-B



PLAN

CHECK DAM - TEMPORARY (STONE)

STONE CHECK DAM PLACEMENT INTERVAL	
DITCH SLOPE	PLACEMENT INTERVAL **
1%	200 FT
2 %	100 FT
3 %	65 FT
4 %	50 FT
5 %	40 FT
6 %	30 FT
8 %	25 FT
10 %	20 FT

** BASED ON 2' TYPICAL HEIGHT

CHECK DAMS

APPLICATION NOTES:

A. THE PRIMARY PURPOSE OF A CHECK DAM IS TO REDUCE EROSION IN A CHANNEL BY REDUCING FLOW VELOCITY.

B. CHECK DAMS WILL CAPTURE SEDIMENT THAT FALLS OUT OF SUSPENSION BEHIND THE CHECK DAM DUE TO DECREASED VELOCITY.

C. CHECK DAMS ARE NOT INTENDED TO FILTER SEDIMENT FROM TURBID WATER.

D. DETAILS SHOWN SHALL BE USED FOR TEMPORARY INSTALLATION ONLY.

E. PREFABRICATED DAMS ARE NOT TO BE USED ON SLOPES GREATER THAN 5% OR PER MANUFACTURER'S SPECIFICATIONS.

F. PREFABRICATED DAM SPECIFICATIONS SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.

GENERAL NOTES:

1. GEOTEXTILE SHALL BE INSTALLED UNDER STONE FILL. IT SHALL BE KEYED IN ON THE UP HILL END AND SHALL EXTEND 2 FEET BEYOND THE STONE ON THE DOWN HILL END.

2. CORE MATERIAL FOR THE STONE CHECK DAM SHALL MEET THE GRADATION REQUIREMENTS OF STONE FILL TYPE I (MIN.). STONE SIZE SHOULD BE INCREASED WITH INCREASED SLOPE AND VELOCITY.

3. THE UPHILL END OF THE APRON FOR THE PREFABRICATED CHECK DAM SHALL BE STAPLED AND BURIED AS SHOWN IN DETAIL "A" OR AS RECOMMENDED BY THE MANUFACTURERS LITERATURE.

4. 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.

5. MEASURES SHALL BE CLEANED AND REPAIRED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.

6. AT TIME OF REMOVAL OF THE CHECK DAMS, THE DISTURBED AREA SHALL BE REPAIRED AND STABILIZED.

7. PAYMENT FOR INSTALLATION AND REMOVAL OF CHECK DAMS SHALL BE MADE UNDER APPLICABLE
ITEM 613.10 - STONE FILL, TYPE I (MOD. - CHECK DAM)

8. PAYMENT FOR MONITORING CHECK DAMS SHALL BE MADE UNDER THE MONITORING EROSION & SEDIMENT CONTROL PLAN ITEM.

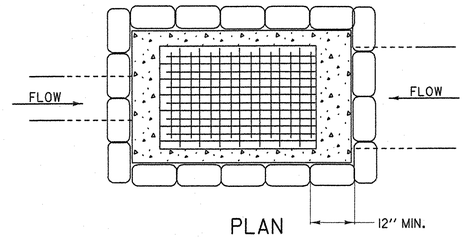
9. PAYMENT FOR MAINTAINING CHECK DAMS SHALL BE MADE UNDER THE FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN ITEM, UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

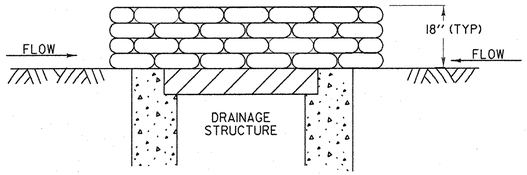
PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: EPSC-2.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
EPSC DETAILS

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 19 OF 26

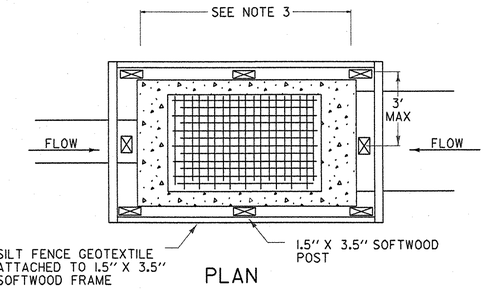


PLAN

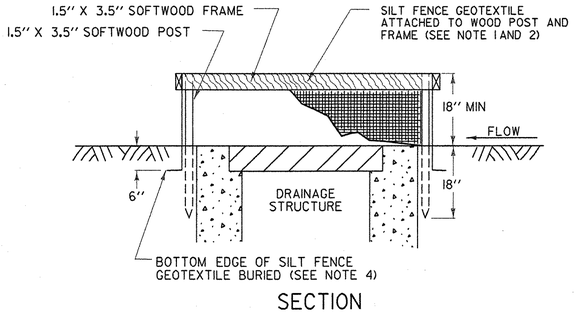


SECTION

GRAVEL BAG DROP INLET PROTECTION

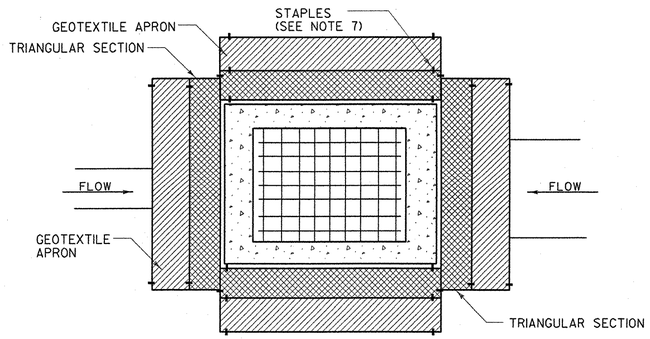


PLAN



SECTION

SILT FENCE DROP INLET PROTECTION



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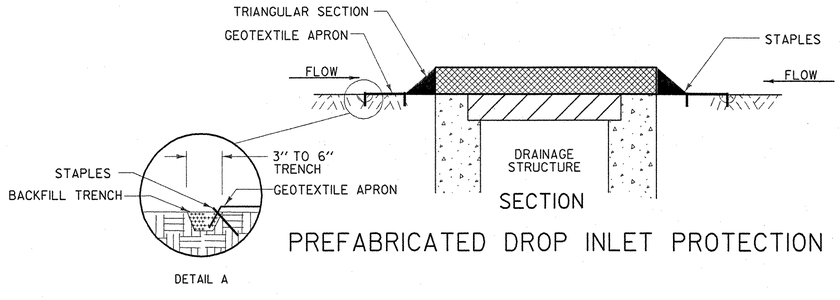
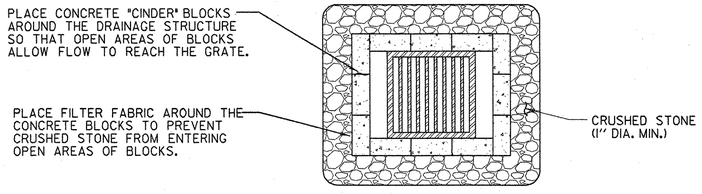


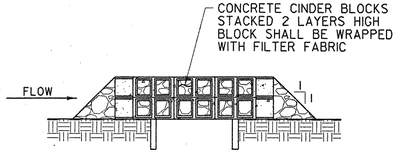
SECTION

DETAIL A

PREFABRICATED DROP INLET PROTECTION



PLAN



SECTION

ROCK BARRIER DROP INLET PROTECTION TEMPORARY PAVED AREAS

DROP INLET PROTECTION

APPLICATION NOTES:

A. THE PRIMARY PURPOSE OF DRAINAGE STRUCTURE INLET PROTECTION IS TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM BY PONDING WATER WHICH ALLOWS SEDIMENT TO FALL OUT OF SUSPENSION.

B. THESE EXAMPLES OF DROP INLET PROTECTION ARE NOT INTENDED FOR USE ON GRADES. ON GRADE THEY MAY CAUSE WATER TO BYPASS THE STRUCTURE, CREATING ADDITIONAL EROSION OR FLOODING.

C. POSSIBLE MODIFICATIONS FOR USE ON GRADE INCLUDE ADDING A BERM DOWNSTREAM OF THE INLET TO CREATE PONDING. CHECK DAMS MAY ALSO BE USED UPSTREAM OF THE INLET TO SLOW VELOCITIES.

D. PREFABRICATED DROP INLET PROTECTION SPECIFICATIONS SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.

GENERAL NOTES:

1. THE TOP OF THE INLET PROTECTION SHALL BE SET AT THE MAXIMUM DESIRED WATER LEVEL, BASED ON FIELD LOCATION AND CONDITIONS.

2. SILT FENCE GEOTEXTILE SHALL BE A SINGLE CONTINUOUS PIECE TO ELIMINATE JOINTS.

3. SPACE SILT FENCE POSTS EVENLY AROUND INLET WITH A MAXIMUM SPACING OF 3 FEET. DRIVE POSTS A MINIMUM OF 18 INCHES INTO GROUND. WIRE MESH MAY BE REQUIRED BEHIND GEOTEXTILE TO PROVIDE SUPPORT.

4. SILT FENCE GEOTEXTILE SHALL BE EMBEDDED A MINIMUM OF 6 INCHES AND BACKFILLED. GEOTEXTILE SHALL BE SECURELY FASTENED TO POSTS AND FRAME.

5. GRAVEL BAGS SHALL BE FILLED WITH CLEAN STONE, RATHER THAN SAND, TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM IF BAGS ARE DAMAGED DURING USE.

6. GRAVEL BAGS SHALL BE INDIVIDUALLY TIED, DOUBLE BAGGED AND INVERSELY INSERTED. GRAVEL BAGS SHALL LAP THE JOINTS BETWEEN THE BAGS IN THE LAYER BELOW.

7. SECURE THE ENDS OF THE APRON FOR THE PREFABRICATED DRAINAGE STRUCTURE INLET PROTECTION WITH STAPLES AS DETAILED IN THE PLAN VIEW OR AS RECOMMENDED BY THE MANUFACTURERS LITERATURE.

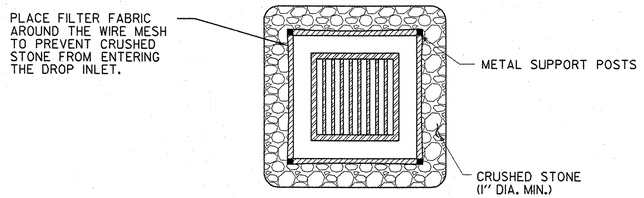
8. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE.

9. MEASURES SHALL BE CLEANED AND REPAIRED AS NEEDED, SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.

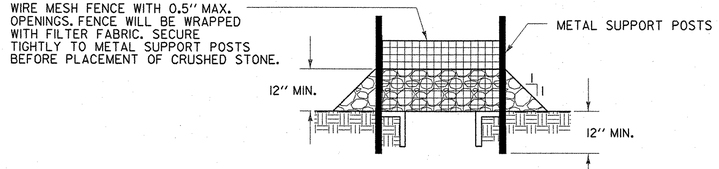
10. PAYMENT OF INLET PROTECTION SHALL BE MADE UNDER ITEM 613.10 - STONE FILL, TYPE I (MOD. - INLET PROTECTION)

11. PAYMENT FOR MONITORING INLET PROTECTION SHALL BE MADE UNDER THE MONITORING EROSION & SEDIMENT CONTROL PLAN ITEM.

12. PAYMENT FOR MAINTAINING INLET PROTECTION SHALL BE MADE UNDER THE FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN ITEM, UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.



PLAN



SECTION

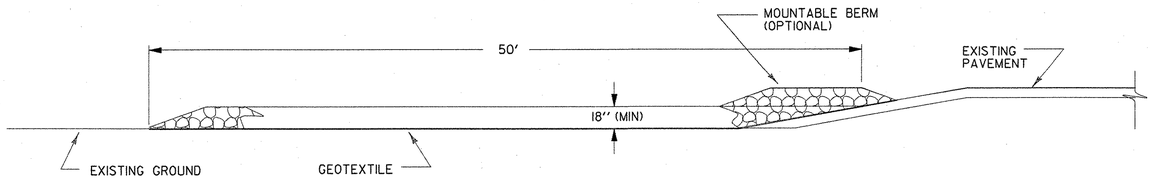
ROCK BARRIER INLET PROTECTION TEMPORARY UNPAVED AREAS

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

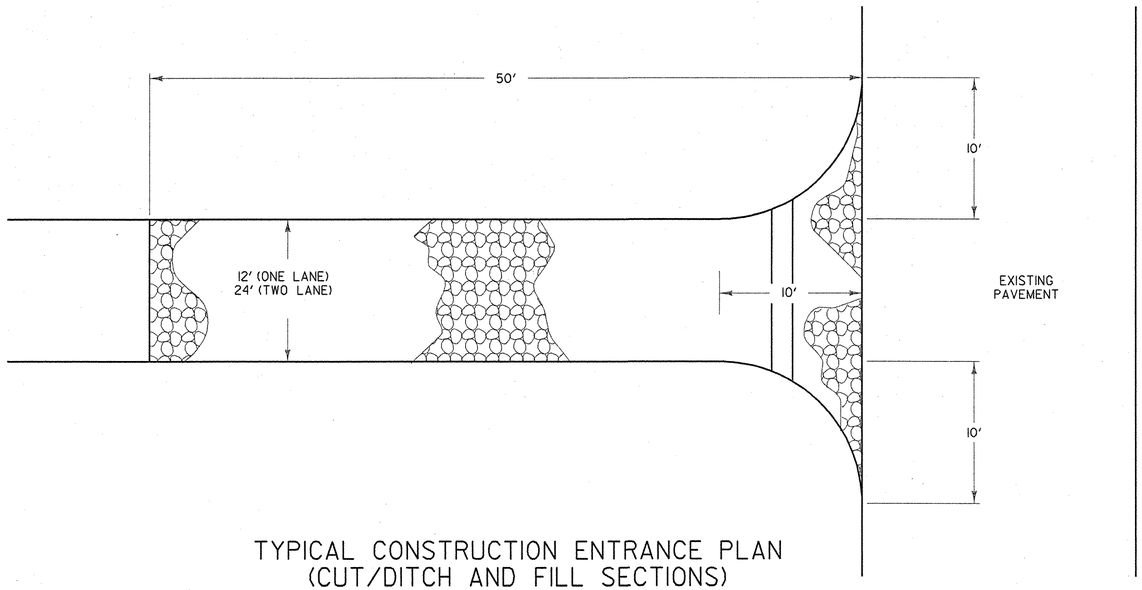
PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: EPSC-3.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
EPSC DETAILS

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 20 OF 26



TYPICAL CONSTRUCTION ENTRANCE PROFILE
(CUT AND DITCH SECTIONS)



TYPICAL CONSTRUCTION ENTRANCE PLAN
(CUT/DITCH AND FILL SECTIONS)

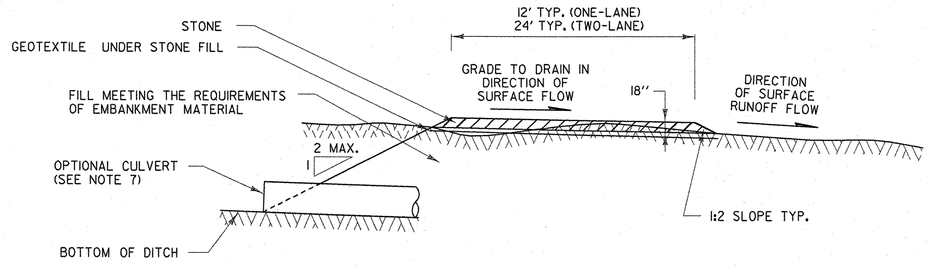
STABILIZED CONSTRUCTION ENTRANCE

APPLICATION NOTES:

A. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY OR STREETS.

GENERAL NOTES:

1. STONE SIZE - USE CLEAN STONE WITH GRADATION BETWEEN 2 INCHES AND 4 INCHES .
2. LENGTH - 50 FEET (MIN)
3. THICKNESS - 18 INCHES (MIN)
4. WIDTH - 12 FEET (MIN)
5. GEOTEXTILE UNDER STONE WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE AS DIRECTED BY THE ENGINEER. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. PROPOSED DRAINAGE PIPES SHALL BE SIZED WITH SUFFICIENT CAPACITY TO CARRY DITCH FLOWS. ALTERNATIVE WAYS OF TRANSPORTING DITCH DRAINAGE ACROSS CONSTRUCTION ENTRANCES MAY BE PROPOSED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.
8. WHEN WASHING OF VEHICLE IS NECESSARY, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. 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.
10. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
11. AT THE TIME OF REMOVAL OF THE STABILIZED CONSTRUCTION ENTRANCE THE DISTURBED AREA SHALL BE REPAIRED AND STABILIZED.
12. PAYMENT OF THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MADE UNDER ITEM 613.10 - STONE FILL, TYPE 1, (MOD. - CONSTRUCTION ENTRANCE)
13. PAYMENT FOR MONITORING STABILIZED CONSTRUCTION ENTRANCES SHALL BE MADE UNDER THE MONITORING EROSION & SEDIMENT CONTROL PLAN ITEM.
14. PAYMENT FOR MAINTAINING THE CONSTRUCTION ENTRANCE SHALL BE MADE UNDER THE FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN ITEM, UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.



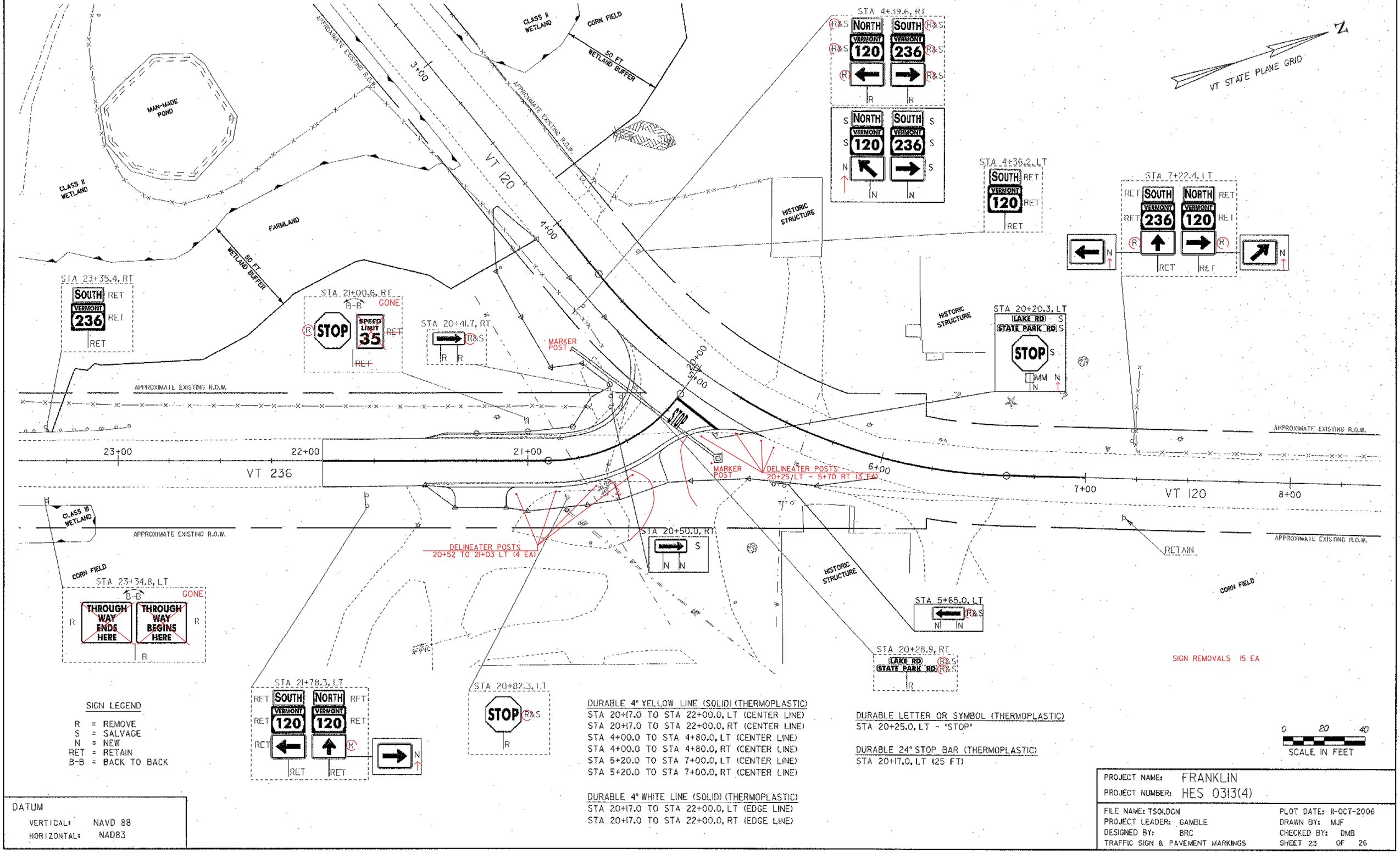
TYPICAL CONSTRUCTION ENTRANCE SECTION

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: EPSC-4.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
EPSC DETAILS

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB



SIGN LEGEND

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

DURABLE 4" YELLOW LINE (SOLID) (THERMOPLASTIC)
STA 20+17.0 TO STA 22+00.0, LT (CENTER LINE)
STA 20+17.0 TO STA 22+00.0, RT (CENTER LINE)
STA 4+00.0 TO STA 4+80.0, LT (CENTER LINE)
STA 4+00.0 TO STA 4+80.0, RT (CENTER LINE)
STA 5+20.0 TO STA 7+00.0, LT (CENTER LINE)
STA 5+20.0 TO STA 7+00.0, RT (CENTER LINE)

DURABLE 4" WHITE LINE (SOLID) (THERMOPLASTIC)
STA 20+17.0 TO STA 22+00.0, LT (EDGE LINE)
STA 20+17.0 TO STA 22+00.0, RT (EDGE LINE)

DURABLE LETTER OR SYMBOL (THERMOPLASTIC)
STA 20+25.0, LT - "STOP"

DURABLE 24" STOP BAR (THERMOPLASTIC)
STA 20+17.0, LT (25 FT)

0 20 40
SCALE IN FEET

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: TSOLDGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
TRAFFIC SIGN & PAVEMENT MARKINGS

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 23 OF 26

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.16	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0 MOD lb/ft 1.7	TUBULAR STEEL Ø (in) FOUNDATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
														OPTION ITEMS																								
4+39.6, RT #1	NORTH SOUTH	2	24	12			2				2			13.8 14.3			~~16~~ ~~13.8~~ ~~14.3~~ 16	2															X	RELOCATE SIGNS TO POSTS		
	VERMONT 120 VERMONT 236	2	30	24			2																											RELOCATE SIGNS TO POSTS		
	→	1	21	15			1																											RELOCATE SIGNS TO POSTS		
	←																																	REMOVE SIGN		
	↖	1	21	15	2.19																													M6-2L / MOUNT TO NEW POST		E-136B
21+78.3, LT #2	↑	1	21	15																														REMOVE SIGN		
	→	1	21	15	2.19				1																									M6-3 / MOUNT TO EXISTING POST		E-136B
7+22.4, LT #3	↑	1	21	15																														REMOVE SIGN		
	→	1	21	15																														REMOVE SIGN		
	←	1	21	15	2.19				1																									M6-3 / MOUNT TO EXISTING POST		E-136B
	↗	1	21	15	2.19				1																									M6-2R / MOUNT TO EXISTING POST		E-136B
20+82.3, LT #4	STOP	1	30	30			X																													
21+00.6, RT #5	STOP	1	30	30																														REMOVE SIGN		
20+20.3, LT #6	STOP MM	1 1	30 6	30 10	0.42		1				1			14 ~~13.0~~ 14&14			13.0	1																	MOUNT SIGN #4 ON NEW POST, ADD MM 0120 0607 0821		E-138
	LAKE RD	1					1																											RELOCATE SIGN TO NEW POST		
	STATE PARK RD	1					1																											RELOCATED SIGN TO NEW POST		
20+50.0, RT #7	→	1	48	24			1				2			14&14 ~~23.0~~			23.0	1																	RELOCATE SIGN TO NEW POSTS		
23+34.8, LT #8	THROUGH WAY BEGINS HERE	1																																REMOVE SIGN		
	THROUGH WAY ENDS HERE	1																																REMOVE SIGN		
5+65.0, LT #9	→	1	48	24			1				2			14&14 ~~23.0~~			23.0	1																	RELOCATE SIGN TO NEW POSTS		
												FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB								
TOTALS					SF 9.18	SF	EA. ~~11~~ 10	SF				FT 102 ~~87.1~~ TO BOOK #1 PAGE 101			FT 87.1					LB				EA.	LB				EA.	EA.	LB					

TO BOOK #1 PAGE 97

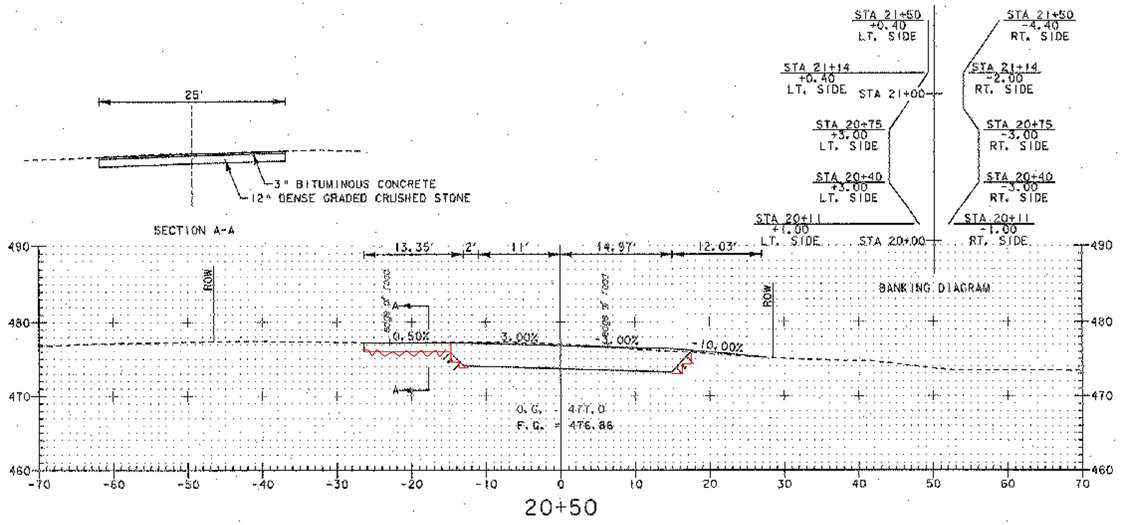
TO BOOK #1 PAGE 109

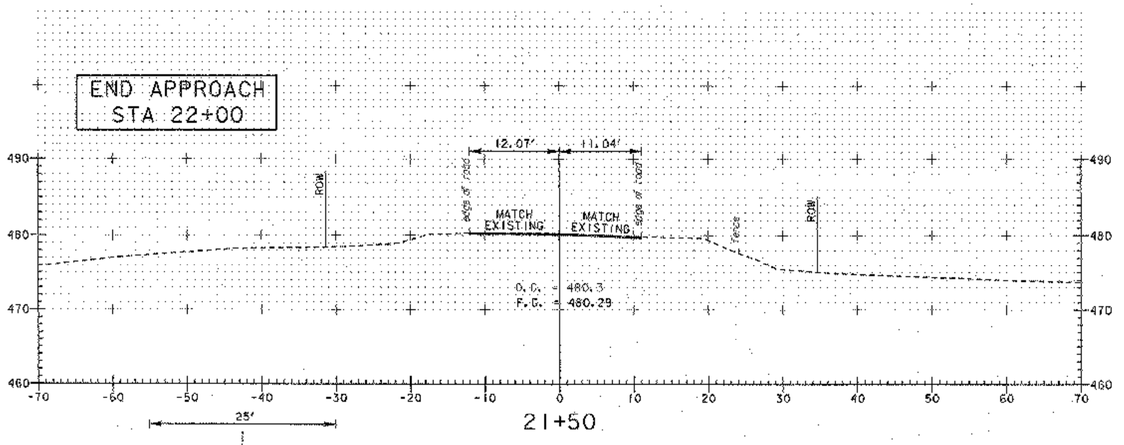
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

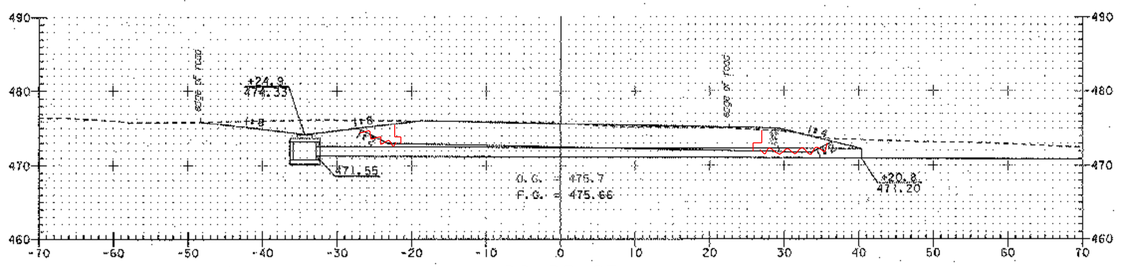
PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

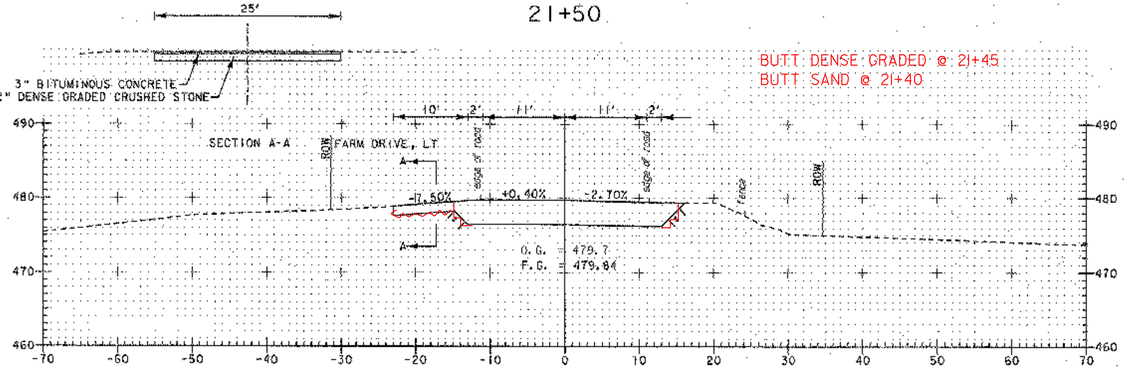
FILE NAME: SGNSUM01.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
TRAFFIC SIGN SUMMARY SHEET

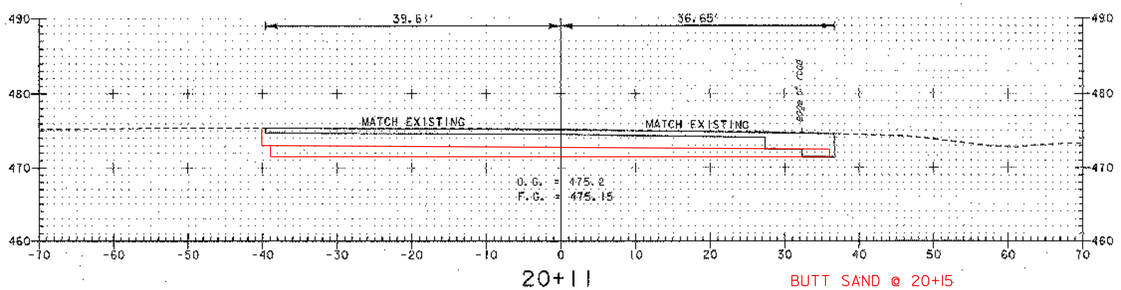
PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 24 OF 26





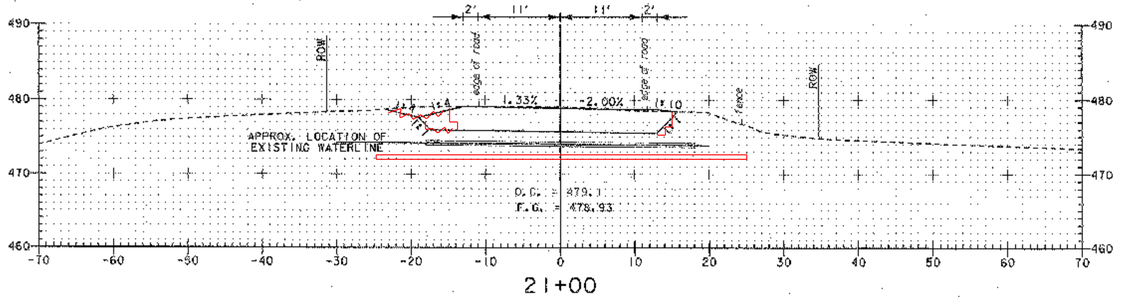






BUTT SAND @ 20+15
BUTT DENSE GRADED @ 20+13

BEGIN PROJECT
STA 20+11



DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

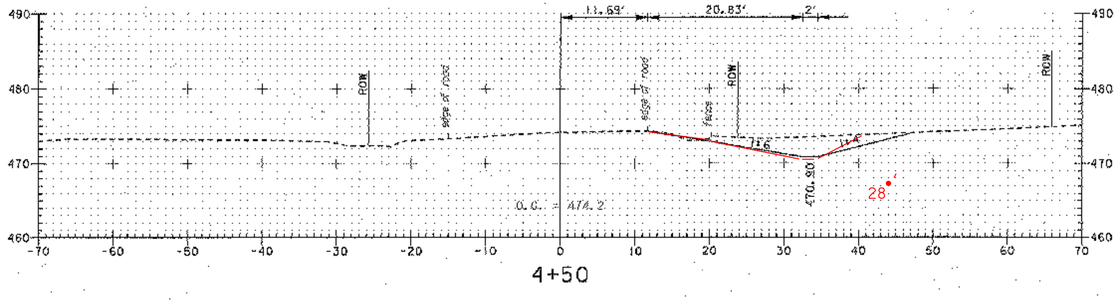
0 10 20
SCALE IN FEET

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

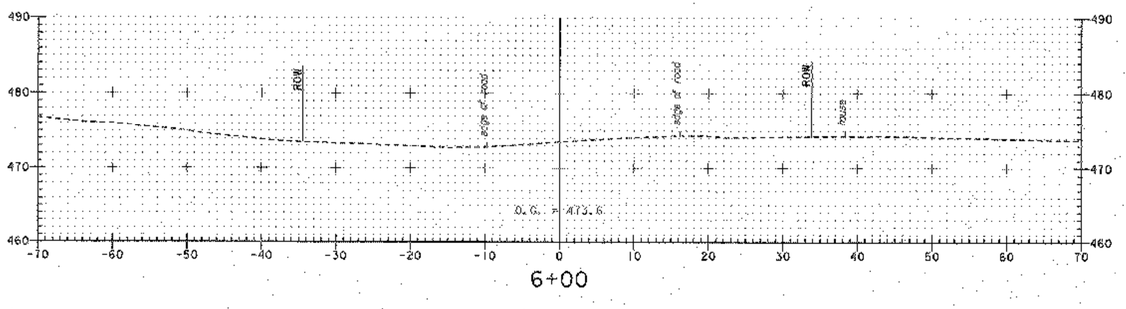
FILE NAME: XS VT236.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
VT 236 CROSS SECTIONS

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 25 OF 26

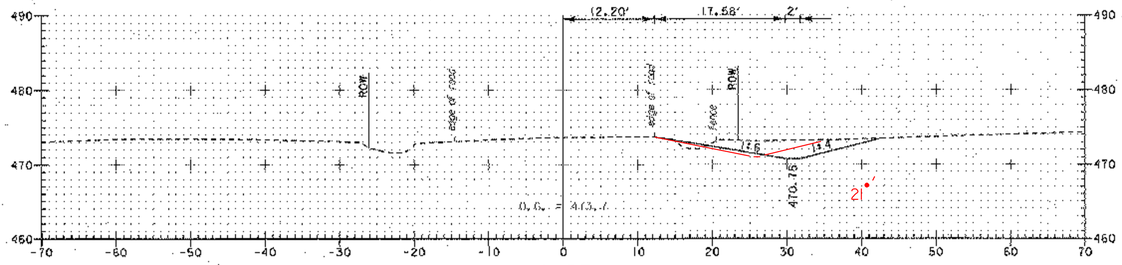
4+62 - SAME COMMON AS 4+50
(END OF CULVERT)



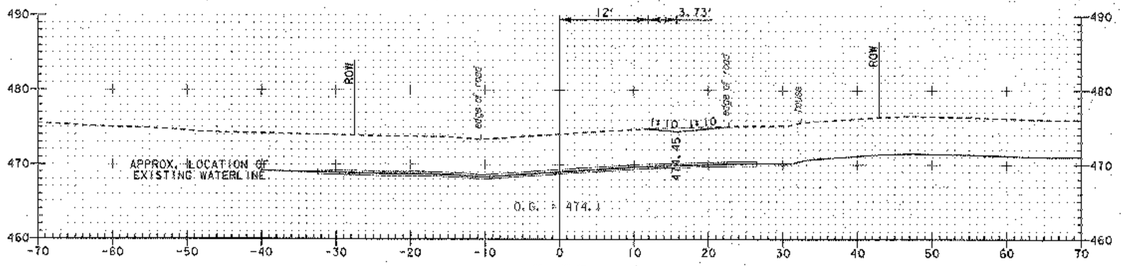
4+50



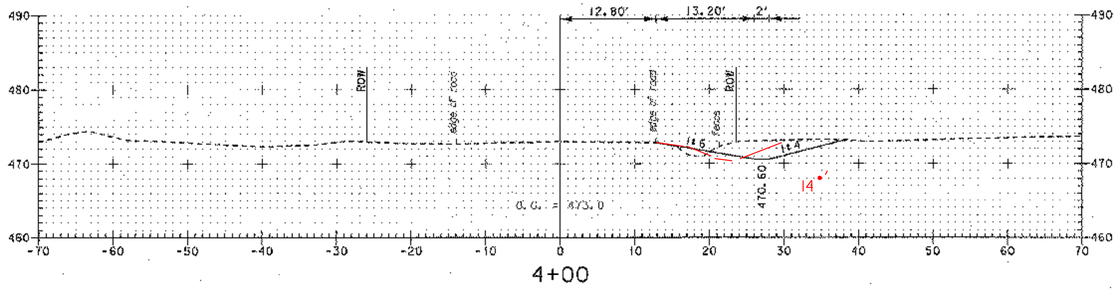
6+00



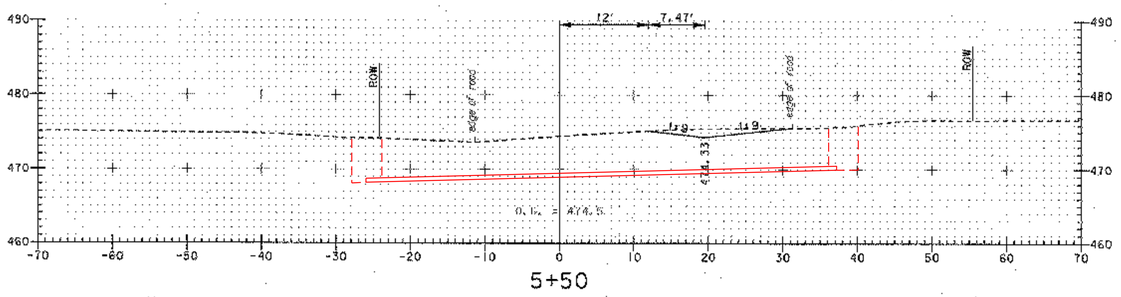
4+25



5+75



4+00



5+50

3+75 ZERO COMMON EXC. - DITCH

DATUM
VERTICAL: NAVD 88
HORIZONTAL: NAD83

0 10 20
SCALE IN FEET

PROJECT NAME: FRANKLIN
PROJECT NUMBER: HES 0313(4)

FILE NAME: XS VT120.DGN
PROJECT LEADER: GAMBLE
DESIGNED BY: BRC
VT 120 CROSS SECTIONS

PLOT DATE: 11-OCT-2006
DRAWN BY: MJF
CHECKED BY: DMB
SHEET 26 OF 26