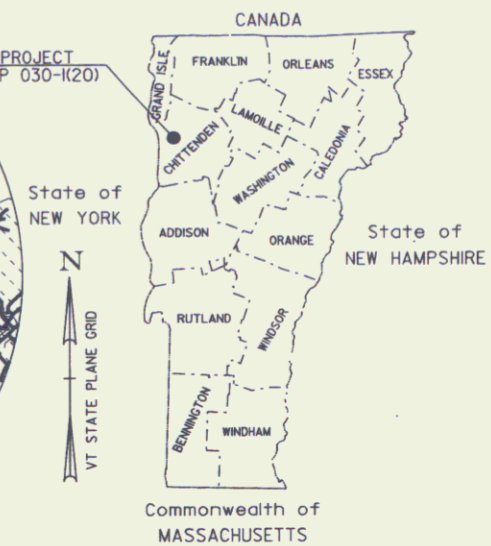


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED SAFETY IMPROVEMENT
TOWN OF ESSEX
COUNTY OF CHITTENDEN

R.O.W. PLANS



SCALE P = 1 MI.

LOCATED IN THE TOWN OF ESSEX ON VERMONT ROUTE 15, ADJACENT TO THE NEW ENGLAND CENTRAL RAILROAD (NECR), BEGINNING AT VT ROUTE 15 MM 0.20 AND EXTENDING EASTERLY 0.30 MILES TO MM 0.50.

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES REPAIR OF A SLIDE AREA ON THE SOUTH SIDE OF THE NECR, INCLUDING NEW DRAINAGE STRUCTURES WITHIN THE HIGHWAY AND RAILROAD ROW, A SLEEVE UNDER THE RAILROAD, AND REPLACEMENT OF RAILROAD TIES AND BALLAST.

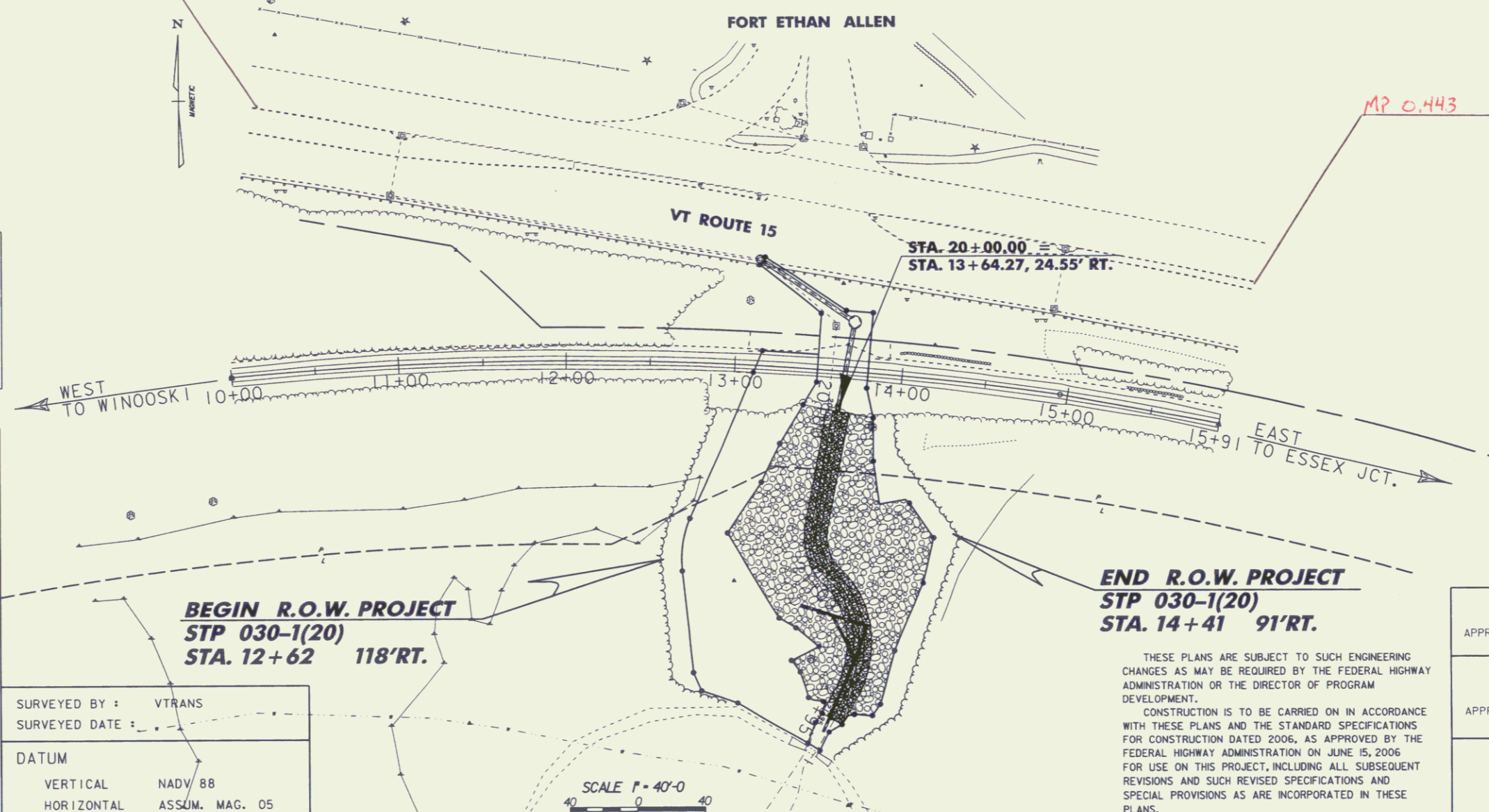
LENGTH OF R.O.W. PROJECT = 179'

MP 0.328

MP 0.443

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

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	



BEGIN R.O.W. PROJECT
STP 030-1(20)
STA. 12+62 118'RT.

END R.O.W. PROJECT
STP 030-1(20)
STA. 14+41 91'RT.

SURVEYED BY : VTRANS
SURVEYED DATE :
DATUM
VERTICAL NADY 88
HORIZONTAL ASSUM. MAG. 05

SCALE P = 40'-0"

Pin # 06E206
Route VT 15

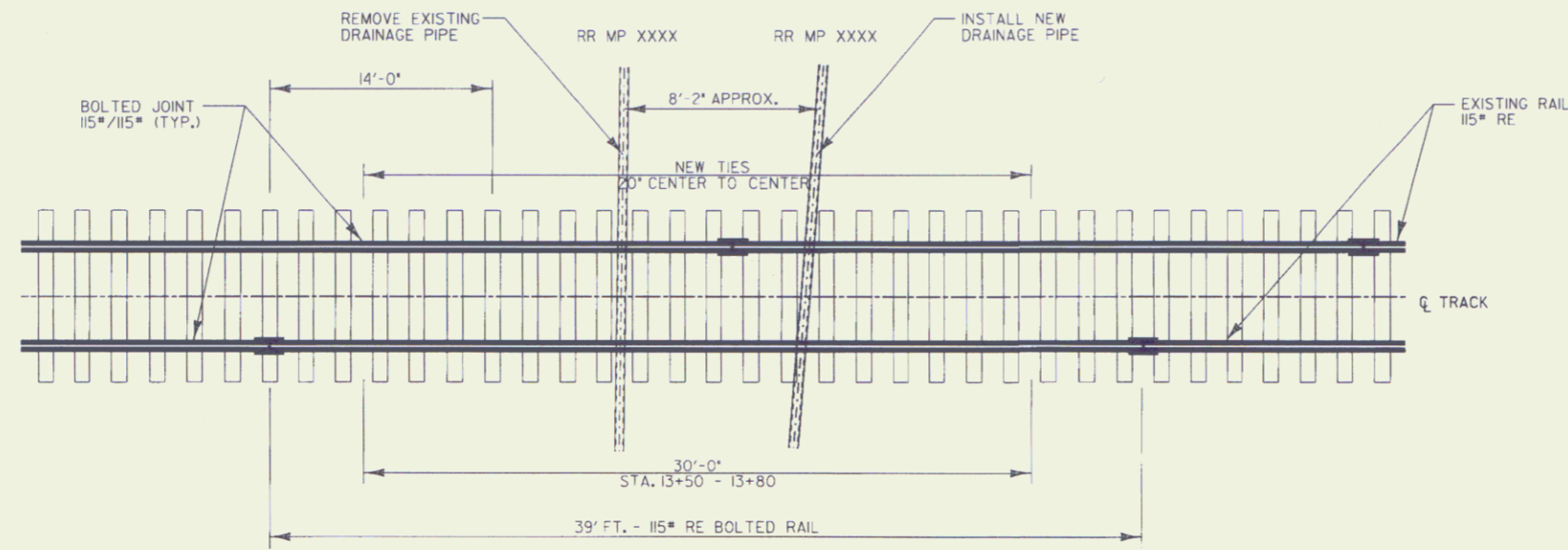
APPROVED *[Signature]* DATE 3/22/06
Director of Program Development

APPROVED _____ DATE _____
Chief of Right of Way

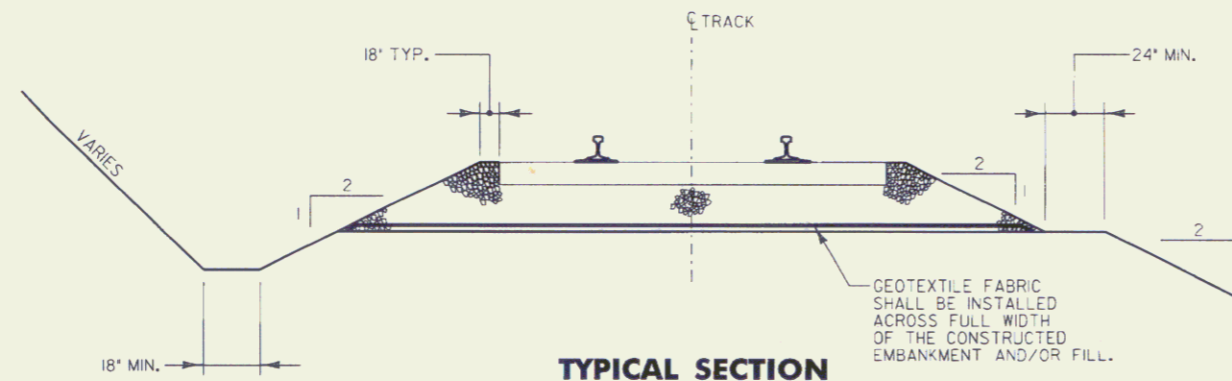
ESSEX
STP 030-1(20)
R.O.W. SHEET 1 OF 10 SHEETS

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 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

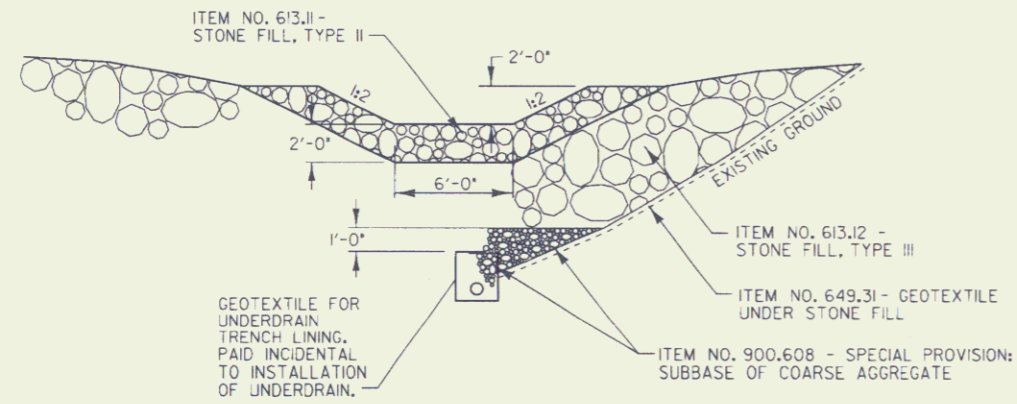
TYPICAL SECTIONS



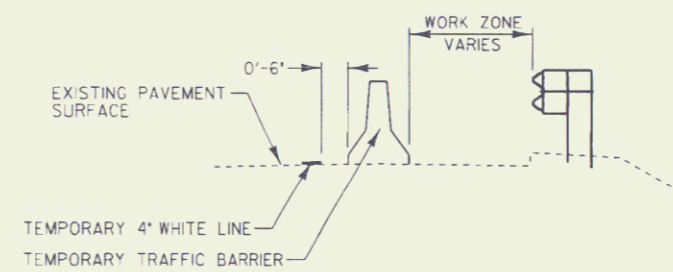
TYPICAL PLAN VIEW
NOT TO SCALE



TYPICAL SECTION
NOT TO SCALE



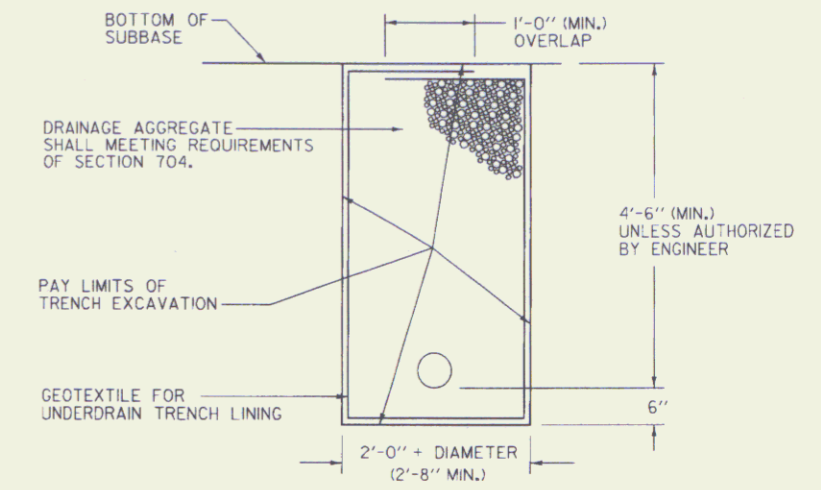
STONE LINED DITCH DETAIL
NOT TO SCALE



TEMPORARY TYPICAL SECTION
NOT TO SCALE

MATERIAL TOLERANCES

MATERIAL ITEM	THICKNESS TOLERANCE
BITUMINOUS CONCRETE PAVEMENT	± 1/4"
SUBBASE	± 1/4"



UNDERDRAIN DETAIL
NOT TO SCALE

SEEDING FORMULAS RURAL AREAS

% MASS	LBS/AC	NAME	PUR %	GERM %
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYE GRASS	95	85
100.0	60.0			

GENERAL NOTES

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

NOTES:

- A 39' SECTION OF RAILS SHALL BE REMOVED ALONG WITH ANY CORRESPONDING TIES. THIS WORK SHALL BE PAID FOR UNDER ITEMS 900.620 - SPECIAL PROVISION: REMOVAL AND REPLACEMENT OF CROSS TIES AND 900.640 - SPECIAL PROVISION: REMOVAL AND REPLACEMENT OF INDIVIDUAL RAILS.
- THE CONTRACTOR SHALL HAVE NO MORE THAN 50 LINEAR FEET OF UNDERDRAIN TRENCH OPEN AT ANY GIVEN TIME.
- GEOTEXTILE TO BE USED UNDER ALL STONE FILL, TYPE III SHALL HAVE A MINIMUM OVERLAP OF 36".
- GEOTEXTILE TO BE USED UNDER ALL MATERIAL USED FOR RAILROAD BALLAST SHALL HAVE A MINIMUM OVERLAP OF 36".

PROJECT NAME: ESSEX
PROJECT NUMBER: STP 030-1(20)

FILE NAME: de206frm.dgn
PROJECT LEADER: JLS
DESIGNED BY: CAA/MBL
PLOT DATE: 11-FEB-2008
DRAWN BY: MBL
CHECKED BY: SDM
ROW SHEET 2 OF 10

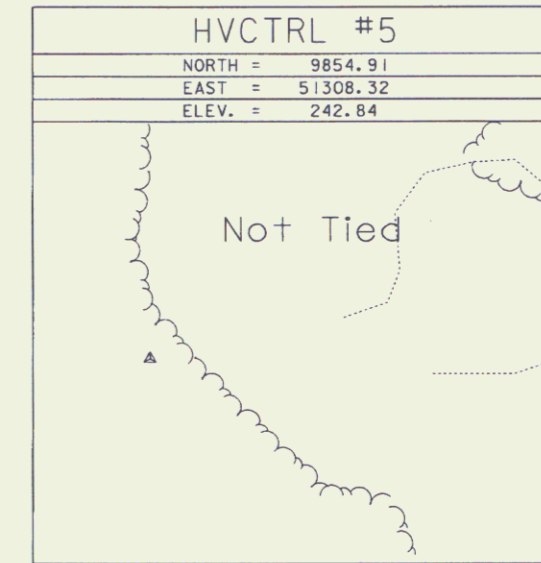
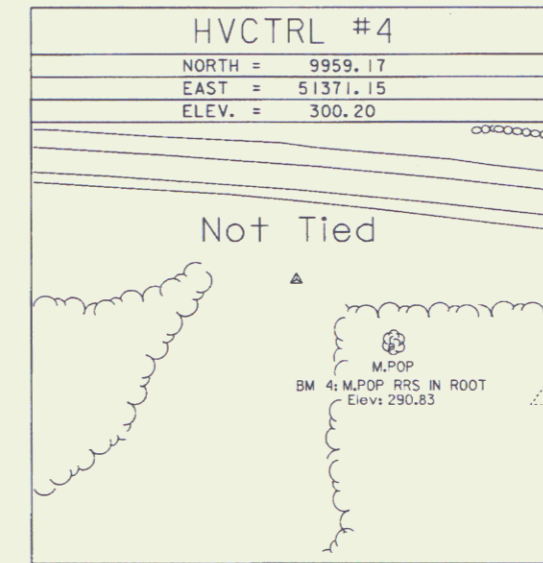
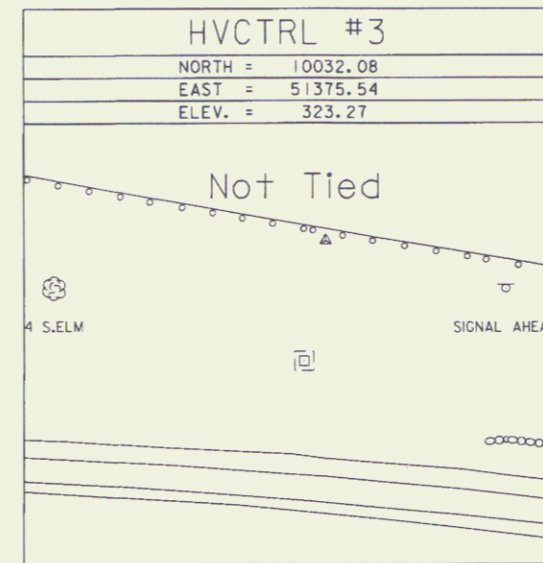
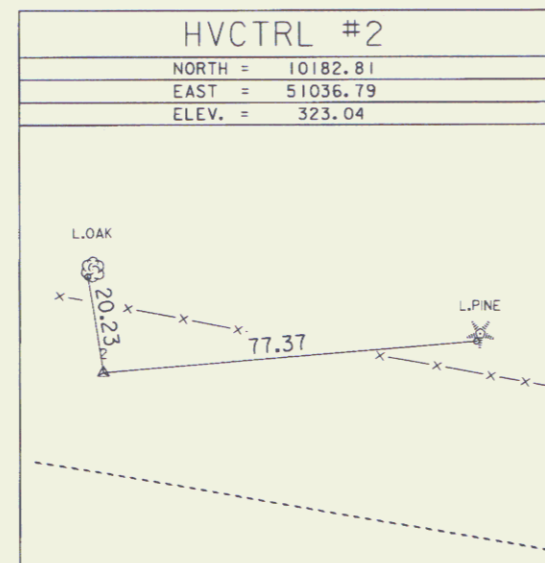
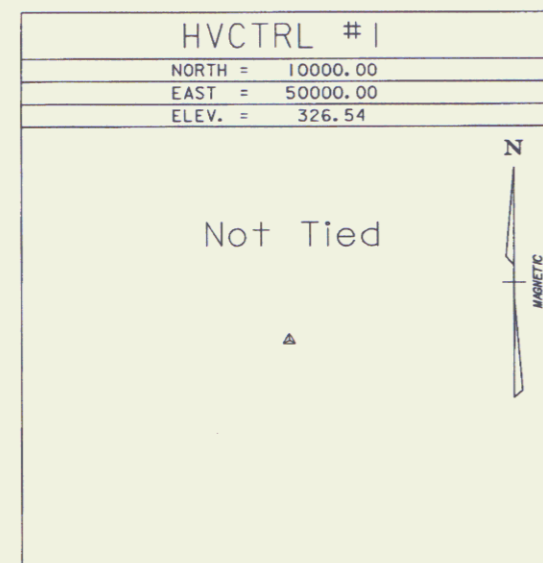
GPS CONTROL POINTS

BM #1
 DESIGNATION
 "NOYES"
 ELEV. = 318.03

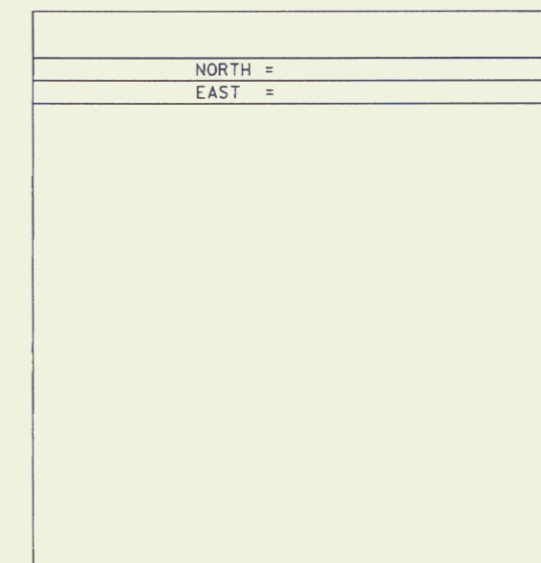
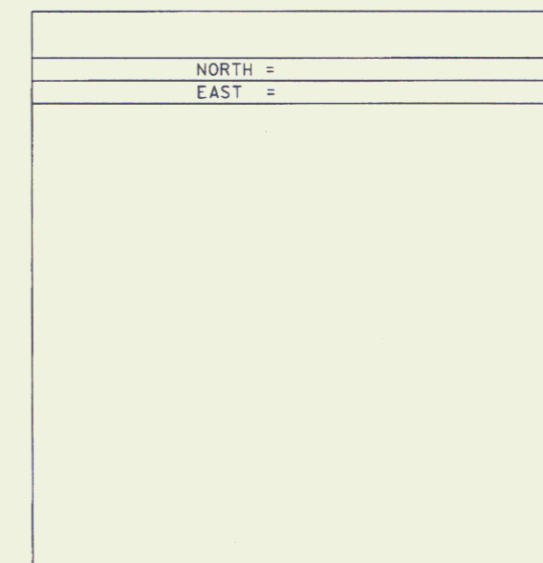
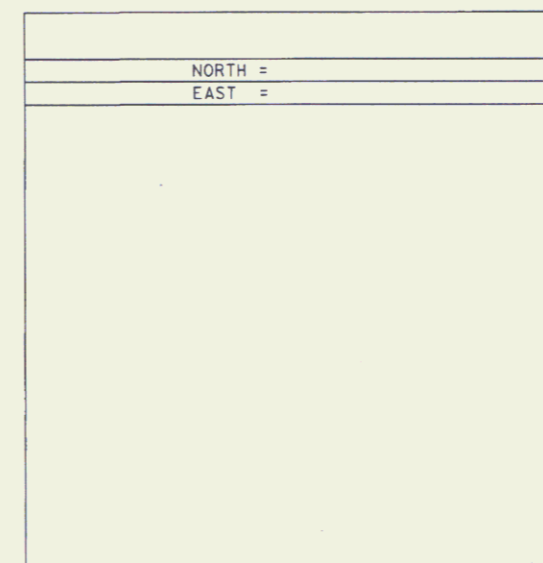
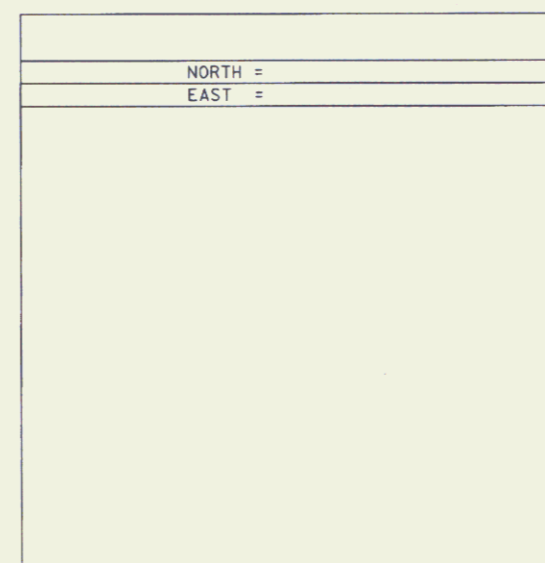
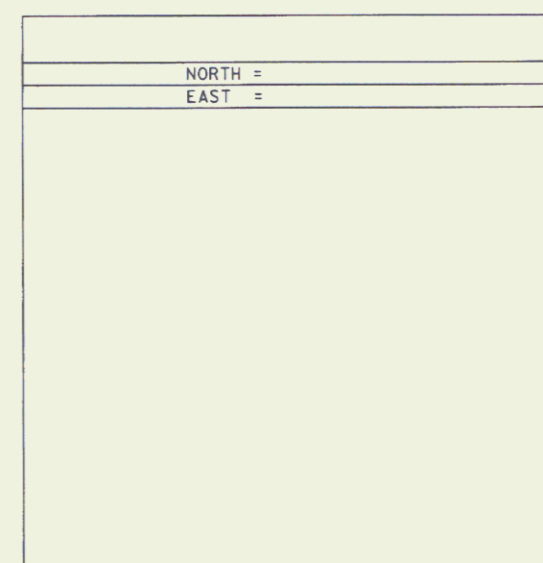
HORIZONTAL COORDINATES ASSUMED

DESCRIBED BY VERMONT AGENCY OF TRANSPORTATION 1977
 TO REACH THE STATION FROM THE LINCOLN INN, GO WEST ALONG VT. ROUTE 15
 APPROXIMATELY 2.6 MILES TO GATE NO. 1 ENTRANCE TO CAMP JOHNSON, ON THE
 NORTHWEST SIDE OF THE ROAD, 251.5 FEET NORTHEAST OF THE CENTERLINE OF
 THE ENTRANCE TO CAMP JOHNSON, 47.8 FEET WEST OF THE CENTER OF A
 MAN-HOLE COVER IN THE SIDEWALK, 18 FEET NORTHWEST OF A DRILLHOLE IN
 THE TOP OF THE CURB ABOVE THE WEST CORNER OF A DRAIN INLET (THIS BEING
 THE SECOND DRAIN INLET NORTHEAST ALONG VT. ROUTE 15 FROM THE ENTRANCE
 TO CAMP JOHNSON), 18.8 FEET SOUTHEAST OF THE RIGHT-OF-WAY FENCE, 8.5
 FEET NORTHWEST OF THE NORTHWEST EDGE OF A BITUMINOUS SIDEWALK, 61.5
 FEET SOUTHWEST OF AN 18-INCH ELM, 38.7 FEET NORTHEAST OF A 20-INCH ELM.

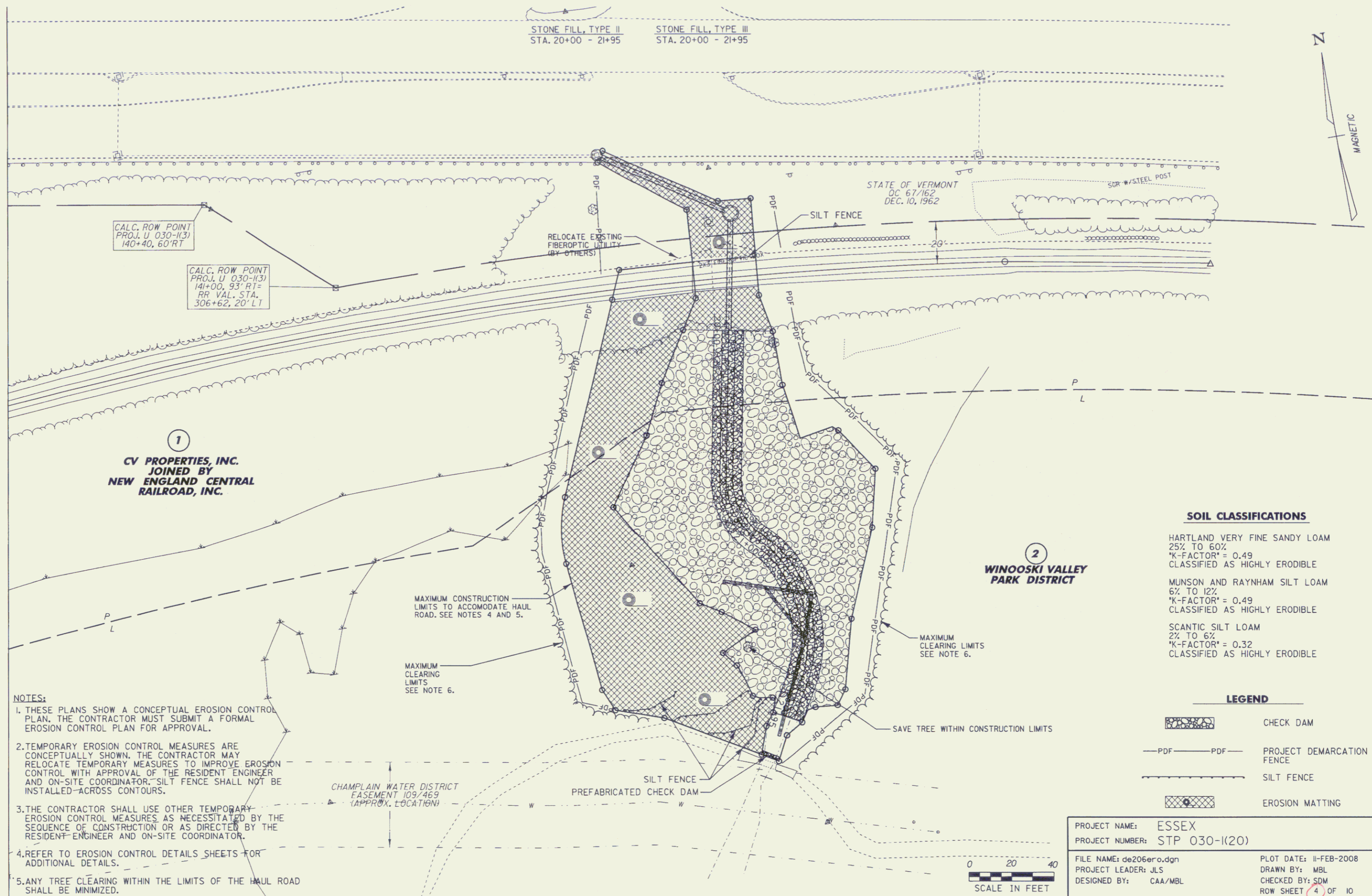
TRAVERSE TIES



ALIGNMENT TIES



SURVEYED BY : VTRANS	PROJECT NAME: ESSEX
SURVEYED DATE :	PROJECT NUMBER: STP 030-1(20)
DATUM	FILE NAME: de206frm.dgn
VERTICAL NAVD 88	PROJECT LEADER: JLS
HORIZONTAL ASSUM. MAG 05	DESIGNED BY: CAA/MBL
ADJUSTMENT NONE	PLOT DATE: 11-FEB-2008
	DRAWN BY: MBL
	CHECKED BY: SDM
	ROW SHEET 3 OF 10



STONE FILL, TYPE II
STA. 20+00 - 21+95

STONE FILL, TYPE III
STA. 20+00 - 21+95

STATE OF VERMONT
DC. 67/162
DEC. 10, 1962

CALC. ROW POINT
PROJ. U 030-113)
140+40, 60' RT

CALC. ROW POINT
PROJ. U 030-113)
141+00, 93' RT =
RR VAL. STA.
306+62, 20' LT

1
**CV PROPERTIES, INC.
JOINED BY
NEW ENGLAND CENTRAL
RAILROAD, INC.**

2
**WINOOSKI VALLEY
PARK DISTRICT**

SOIL CLASSIFICATIONS

HARTLAND VERY FINE SANDY LOAM
25% TO 60%
"K-FACTOR" = 0.49
CLASSIFIED AS HIGHLY ERODIBLE

MUNSON AND RAYNHAM SILT LOAM
6% TO 12%
"K-FACTOR" = 0.49
CLASSIFIED AS HIGHLY ERODIBLE

SCANTIC SILT LOAM
2% TO 6%
"K-FACTOR" = 0.32
CLASSIFIED AS HIGHLY ERODIBLE

LEGEND

- CHECK DAM
- PROJECT DEMARCATION FENCE
- SILT FENCE
- EROSION MATTING

- NOTES:**
1. THESE PLANS SHOW A CONCEPTUAL EROSION CONTROL PLAN. THE CONTRACTOR MUST SUBMIT A FORMAL EROSION CONTROL PLAN FOR APPROVAL.
 2. TEMPORARY EROSION CONTROL MEASURES ARE CONCEPTUALLY SHOWN. THE CONTRACTOR MAY RELOCATE TEMPORARY MEASURES TO IMPROVE EROSION CONTROL WITH APPROVAL OF THE RESIDENT ENGINEER AND ON-SITE COORDINATOR. SILT FENCE SHALL NOT BE INSTALLED ACROSS CONTOURS.
 3. THE CONTRACTOR SHALL USE OTHER TEMPORARY EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER AND ON-SITE COORDINATOR.
 4. REFER TO EROSION CONTROL DETAILS SHEETS FOR ADDITIONAL DETAILS.
 5. ANY TREE CLEARING WITHIN THE LIMITS OF THE HAUL ROAD SHALL BE MINIMIZED.

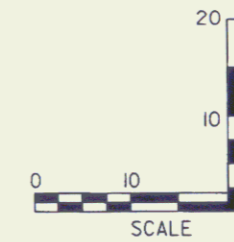
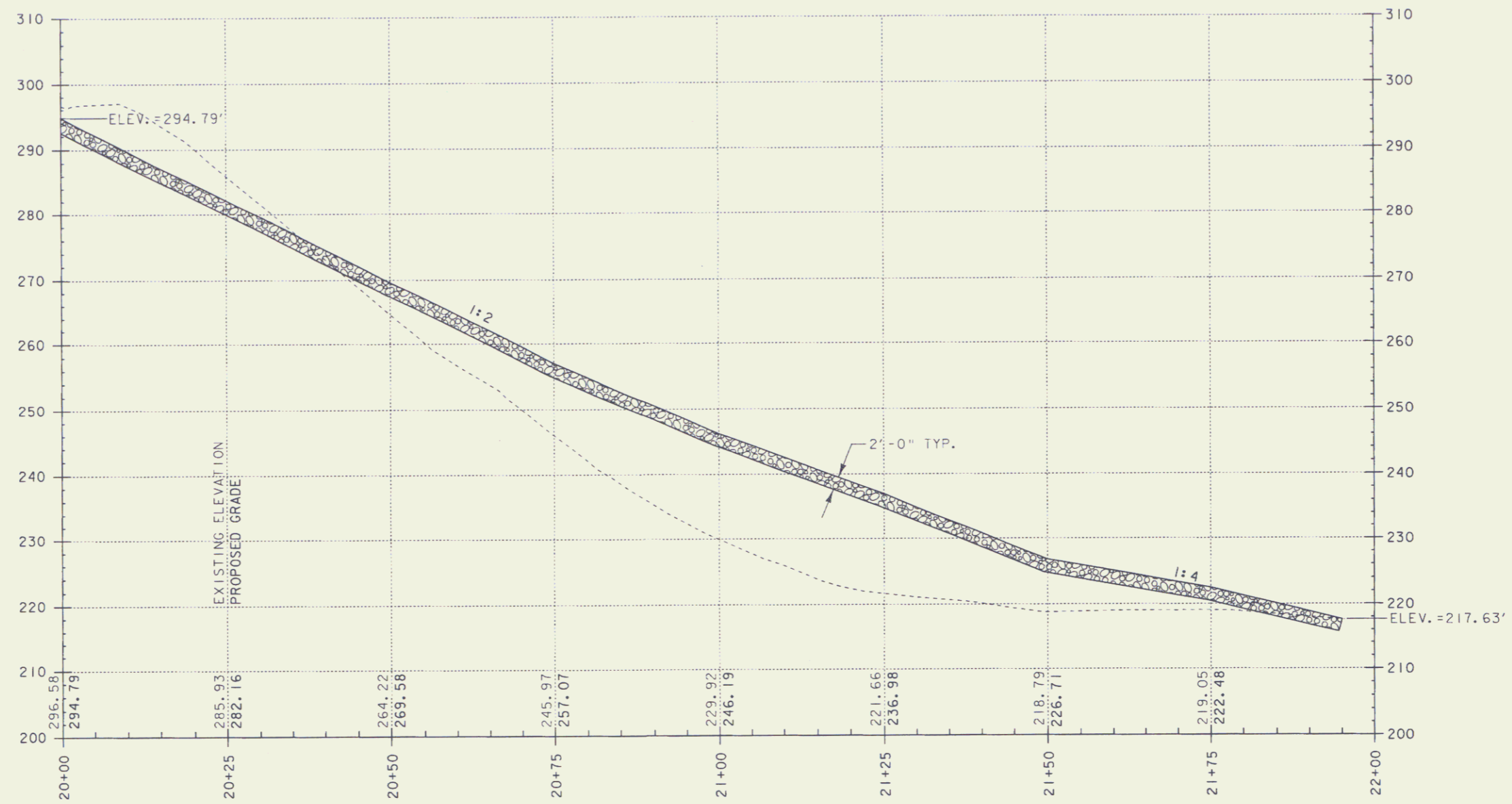
CHAMPLAIN WATER DISTRICT
EASEMENT 109/469
(APPROX. LOCATION)

0 20 40
SCALE IN FEET

PROJECT NAME: ESSEX
PROJECT NUMBER: STP 030-1(20)

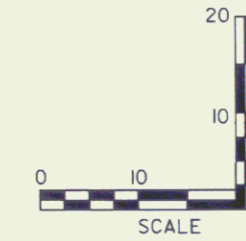
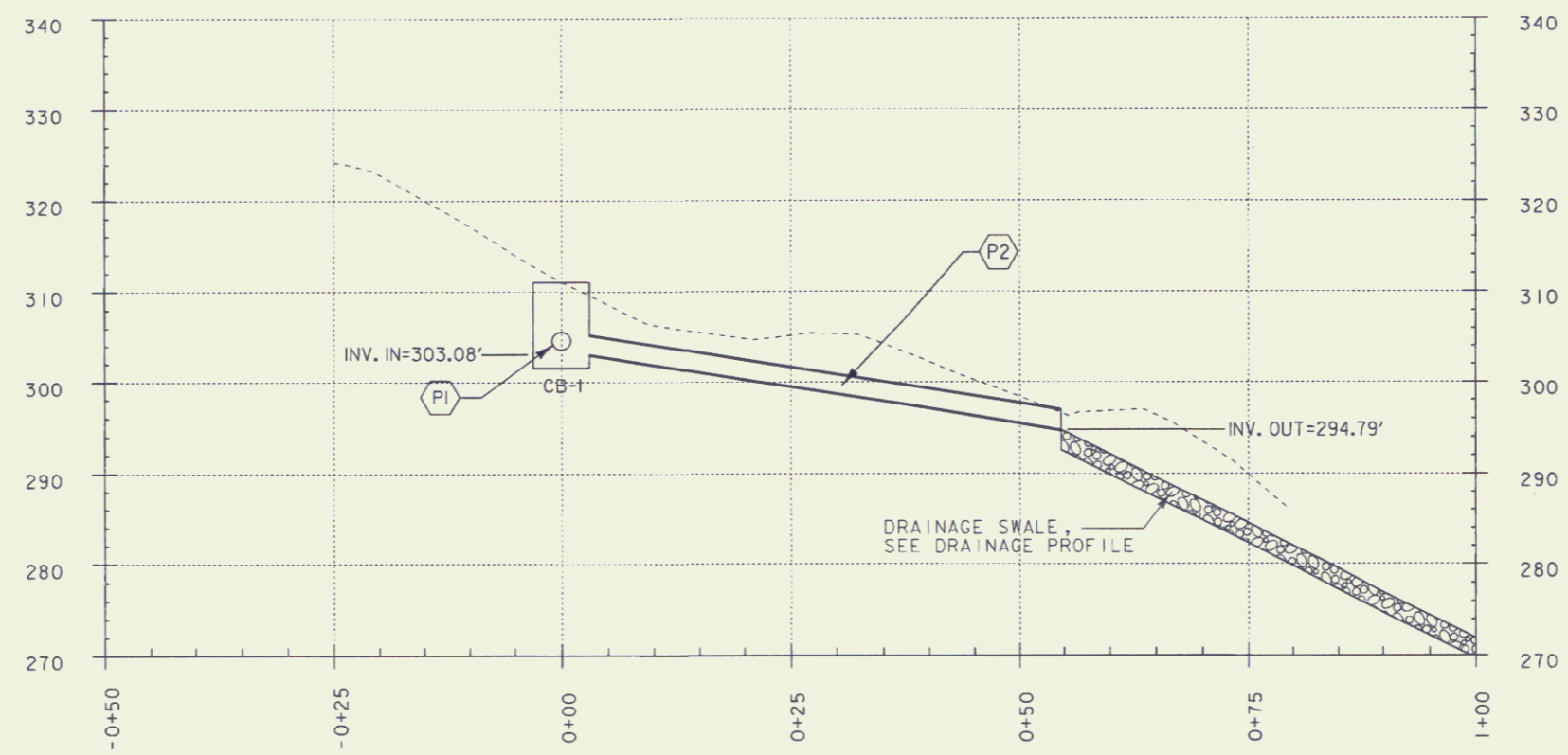
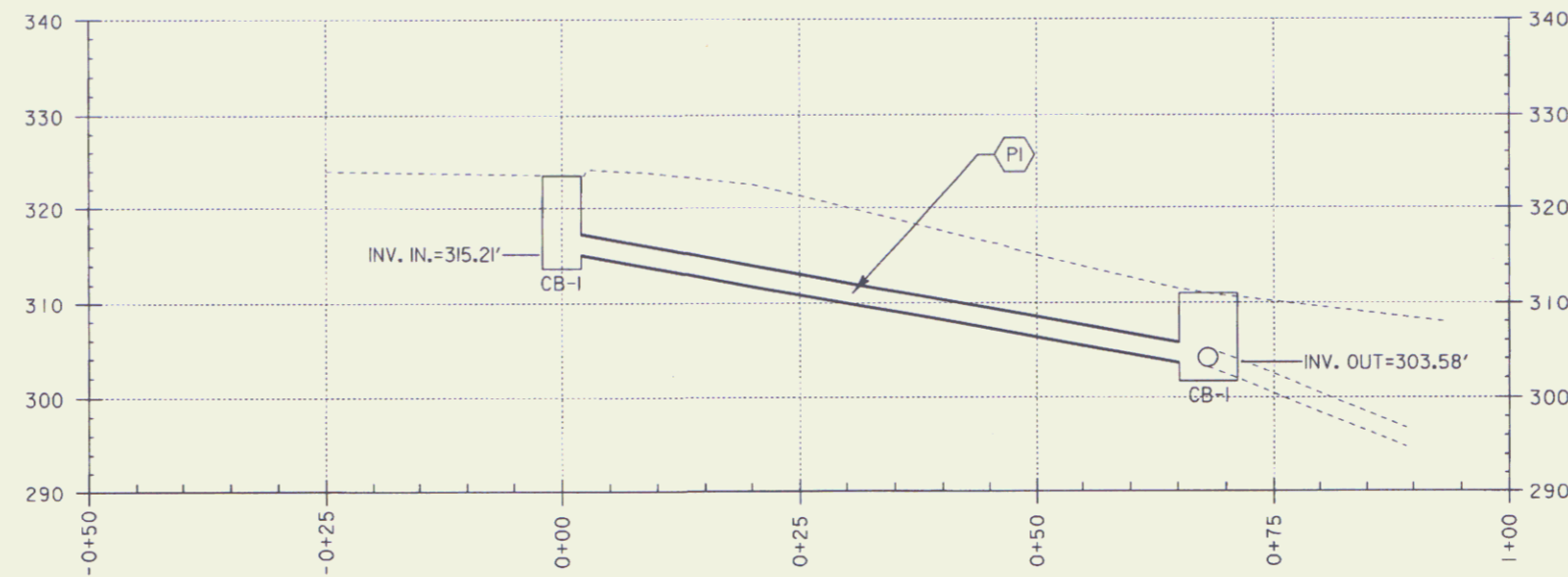
FILE NAME: de206ero.dgn
PROJECT LEADER: JLS
DESIGNED BY: CAA/MBL

PLOT DATE: 11-FEB-2008
DRAWN BY: MBL
CHECKED BY: SDM
ROW SHEET 4 OF 10



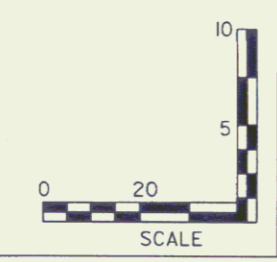
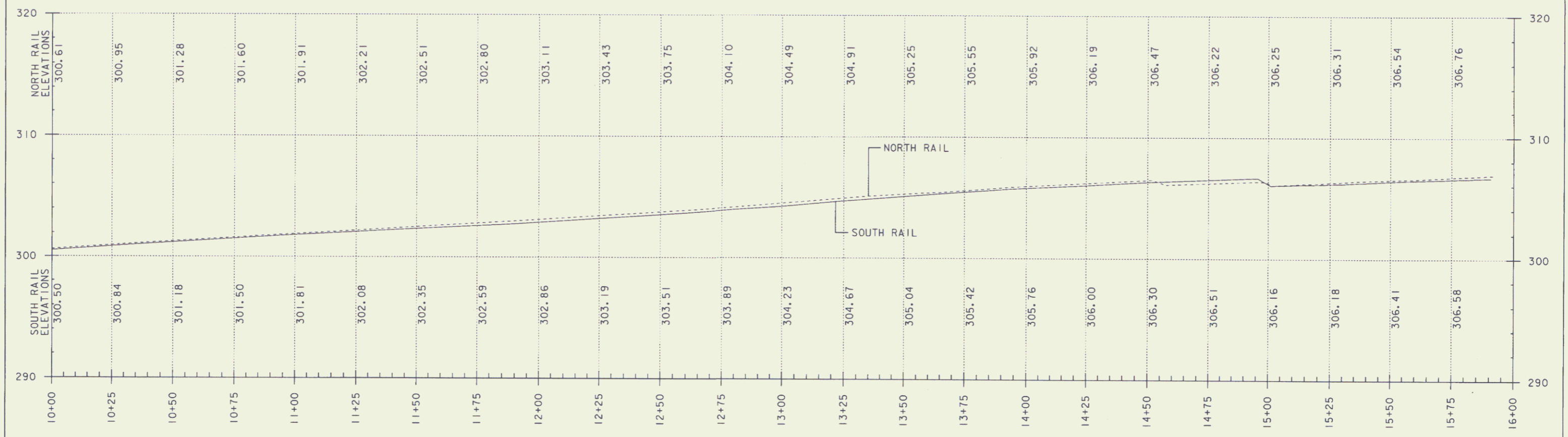
SWALE PROFILE	
PROJECT NAME:	ESSEX
PROJECT NUMBER:	STP 030-(120)
FILE NAME:	de206xsl.dgn
PROJECT LEADER:	JLS
DESIGNED BY:	CAA/MBL
PLOT DATE:	11-FEB-2008
DRAWN BY:	MBL
CHECKED BY:	SDM
ROW SHEET:	6 OF 10

6



DRAINAGE PROFILES

PROJECT NAME: ESSEX	PLOT DATE: 11-FEB-2008
PROJECT NUMBER: STP 030-1(20)	DRAWN BY: MBL
FILE NAME: ds206xsl.dgn	CHECKED BY: SDM
PROJECT LEADER: JLS	DESIGNED BY: CAA/MBL
	ROW SHEET 7 OF 10



TRACK (RAIL) PROFILE

PROJECT NAME: ESSEX	PLOT DATE: 11-FEB-2008
PROJECT NUMBER: STP 030-I(20)	DRAWN BY: MBL
FILE NAME: de206xsl.dgn	CHECKED BY: SDM
PROJECT LEADER: JLS	ROW SHEET 8 OF 10
DESIGNED BY: CAA/MBL	

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/M)±	AREA ±	TITLE	DATE	TOWN / CITY	BOOK		PAGE	
1	CV PROPERTIES, INC. JOINED BY NEW ENGLAND CENTRAL RAILROAD, INC.	10	12+67 RT	13+12 RT			CONST	(T)	840 SF	WD	04/03/09	ESSEX	774	62-65	INCL. PDF	
			12+80 RT	13+86 RT			SLOPE	(P)	2,800 SF							INCL. HAUL ROAD ACCESS
			12+83 RT	14+01 RT			LANDSCAPE	(T)								INSTALL SEEDLINGS, NATIVE SHRUB BEDS WITH GRUBBING
			13+08 LT	13+50 LT			CONST	(T)	107 SF							INCL. PDF
			13+10 RT	13+80 LT			SLOPE	(T)	1,620 SF							INCL. EC
			13+23 CL	14+01 CL			REMOVE & RESET	(T)								RAILROAD TRACKS
			13+23 RT	13+90 RT			INSTALL & MAINTAIN	(P)	1,910 SF							STONE LINED DITCH
			13+56 RT	13+79 LT			ACCESS	(P)	600 SF							
			13+57 RT	13+60 LT			REMOVE	(T)								CULVERT
			13+63 RT	13+70 LT			INSTALL & MAINTAIN	(P)								CULVERT
			13+80 RT	14+11 RT			CONST	(T)	680 SF							INCL. PDF
			13+80 LT	13+92 LT			CONST	(T)	136 SF							INCL. PDF
2	WINOOSKI VALLEY PARK DISTRICT	10	12+62RT	12+88RT			CONST	(T)	1,080SF	WD	10/08/08	ESSEX	759	85-87	INCL. PDF	
			12+64RT	14+38RT			LANDSCAPE	(T)							INSTALL TREES, SEEDLINGS, NATIVE SHRUB BEDS WITH GRUBBING	
			12+73RT	13+83RT			SLOPE	(P)	0.16A						INCL. HAUL ROAD ACCESS AND TEMP. EC. 6,960SF±	
			13+00RT	14+30RT			INSTALL AND MAINT.	(P)	0.26A						STONE LINED DITCH AND UNDERDRAINS, 11,500SF±	
			13+55RT	13+57RT			REMOVE DRAINAGE	(T) (P)								EXISTING PIPE
3	VERMONT FIBERLINK, LLC	10												UTILITY		

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
1	9.10	PARCEL NO. 3 VERMONT FIBERLINK, LLC. ADD PARCEL TO PLANS. TEMPORARY RIGHT ONLY PER C.O. 9524 APPROVED BY: HP MADE BY: MR	05/13/08
2	9.10	PARCEL NO. 3 VERMONT FIBERLINK, LLC. DELETE EASEMENT. CHANGE PARCEL TO A UTILITY. PER C.O. 9525 APPROVED BY: HP MADE BY: MR	05/22/08

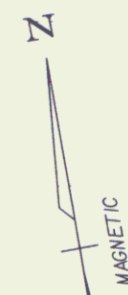
PLAN LEGEND

- | | | |
|-----------------------|---------------------------|---------------------------------|
| EXISTING RIGHT-OF-WAY | TOE OF SLOPE | EC - EROSION CONTROL |
| TAKING WITH ACCESS | TOP OF CUT | (P) - PERMANENT |
| TAKING WITHOUT ACCESS | SLOPE RIGHT | (T) - TEMPORARY |
| CLEAR ZONE | CONSTRUCTION RIGHT | DR - DRAINAGE RIGHT |
| PROPERTY LINE | PROJECT DEMARCATION FENCE | DIT - DITCHING RIGHT |
| | | CH - CHANNEL RIGHT |
| | | DRIVE - DRIVE RIGHT |
| | | CUL - CULVERT RIGHT |
| | | C&T - CLEARING & TRIMMING RIGHT |
| | | SR - SLOPE RIGHT |
| | | UE - UTILITY EASEMENT |

APPROVED: HARRY PETROYS, DATE: 03-25-08
CHIEF, PLANS & TITLES

PLOT DATE 04/13/09

PROJECT NAME:	ESSEX
PROJECT NUMBER:	STP 030-1(20)
FILE NAME:	08E2060DETAIL.XLS
PROJECT LEADER:	JLS
DESIGNED BY:	CAAMBL
R.O.W. DETAIL SHEET #1	R.O.W. SHEET 9 OF 10
PLOT DATE:	04/13/09
DRAWN BY:	MBL
CHECKED BY:	SDM



CALC. ROW POINT
PROJ. U 030-1(3)
140+40, 60 RT

CALC. ROW POINT
PROJ. U 030-1(3)
141+00, 93 RT =
RR VAL. STA. 306+62, 20' LT =
11+85.4, 20.3' LT

3
**VERMONT
FIBERLINK, LLC**

STATE OF VERMONT
DC 67/162
DEC. 10, 1962

**END R.O.W. PROJECT
STP 030-1(20)
STA. 14+41 91'RT.**

STA. 20+00.00 =
STA. 13+64.27, 24.55' RT. =
RR VAL. STA. 308+35, 25' RT.

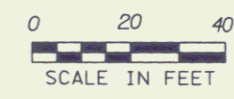
1
**CV PROPERTIES, INC.
JOINED BY
NEW ENGLAND CENTRAL
RAILROAD, INC.**

**BEGIN R.O.W. PROJECT
STP 030-1(20)
STA. 12+62 118'RT.**

2
**WINOOSKI VALLEY
PARK DISTRICT**

UNDERDRAIN SLOPES & ELEVATIONS

CHAMPLAIN WATER DISTRICT
EASEMENT 109/469
(APPROX. LOCATION)



PROJECT NAME: ESSEX	PLOT DATE: 22-MAY-2008
PROJECT NUMBER: STP 030-1(20)	DRAWN BY: MBL
FILE NAME: de206ero.dgn	CHECKED BY: SDM
PROJECT LEADER: JLS	ROW SHEET 10 OF 10
DESIGNED BY: CAA/MBL	

10