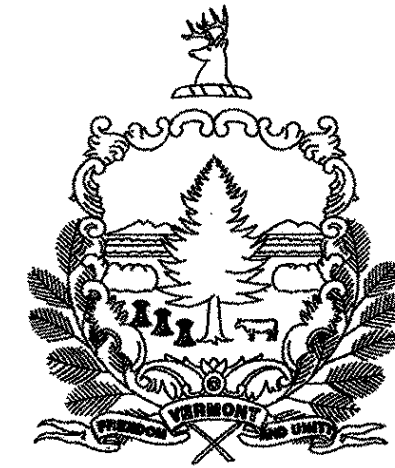


STATE OF VERMONT AGENCY OF TRANSPORTATION

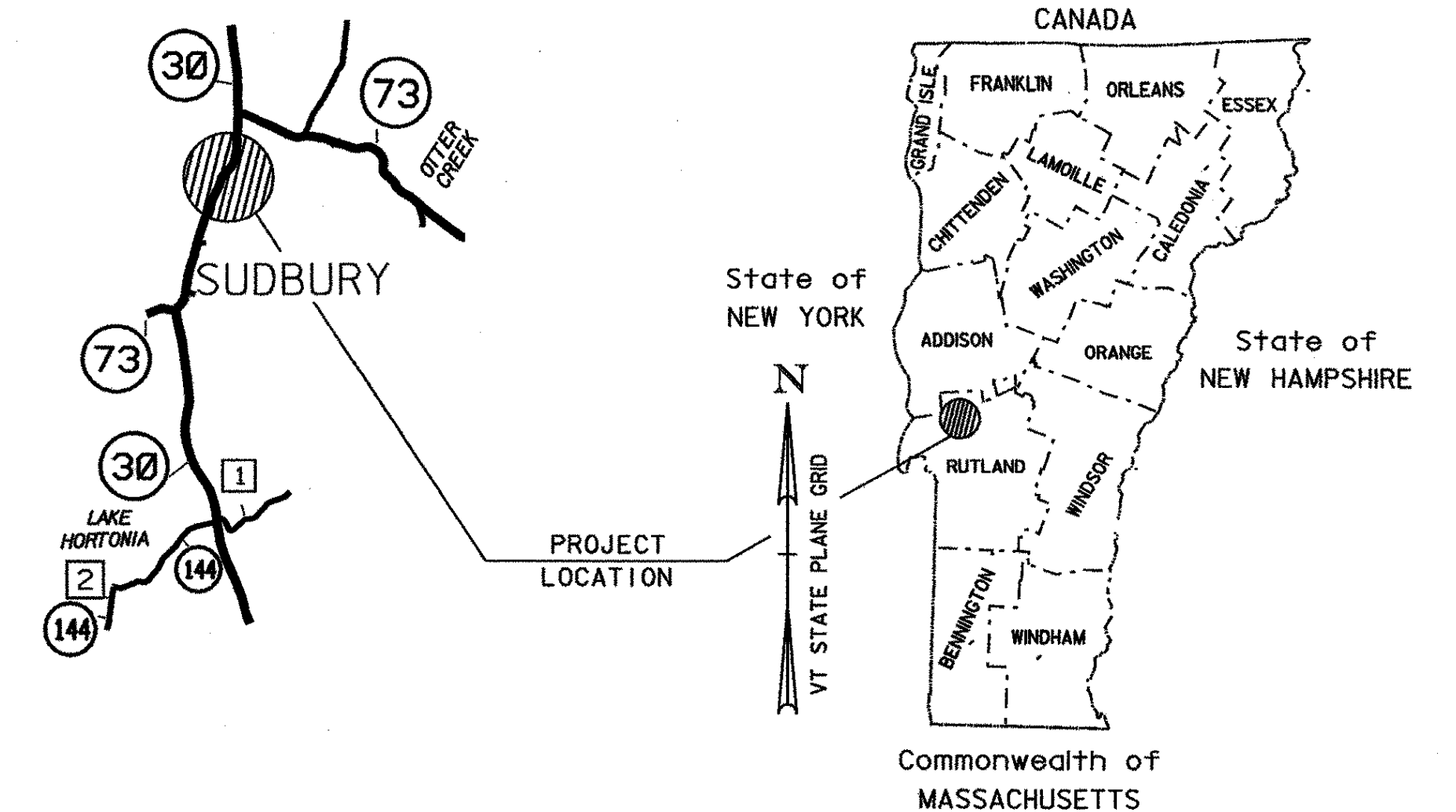


PROPOSED IMPROVEMENT TOWN OF SUDBURY COUNTY OF RUTLAND VT RTE 30

BEGINNING AT A POINT ON VT RTE 30, IN THE TOWN OF SUDBURY APPROXIMATELY 5.00 MILES NORTHERLY OF THE HUBBARDTON/SUDBURY TOWN LINE AND EXTENDING NORTHERLY APPROXIMATELY 0.25 MILES.

LENGTH OF ROADWAY 1325' = 0.25 MILES
LENGTH OF PROJECT 1325' = 0.25 MILES

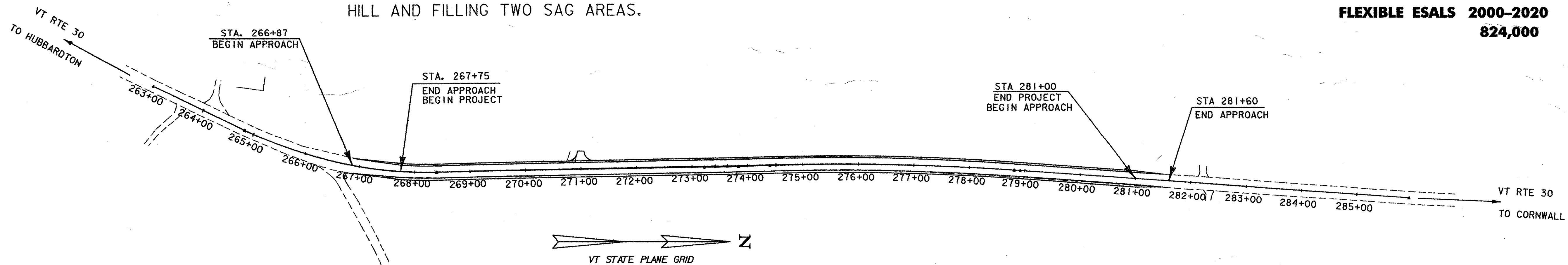
WORK TO BE PERFORMED ON THIS PROJECT INCLUDES CHANGING PROFILE OF ROADWAY BY CUTTING CREST OF HILL AND FILLING TWO SAG AREAS.



RECORD PLANS	
CONTRACTOR:	KINGSBURY CONSTRUCTION, WAITSFIELD, VT
RESIDENT ENGINEER:	T. COARSE
CONSTRUCTION BEGAN:	SEPT. 05, 2002
CONSTRUCTION COMPLETE:	JULY 02, 2003
RECORD PLANS BY:	K. NORTH & N. GARBACIK
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY	<i>Anthony J. Coarse</i> RESIDENT ENGINEER
DATE	3/08/04
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.	

TRAFFIC DATA		
	2000	2020
ADT	2000	2700
DHV	250	340
ADTT(DAILY)	120	120
%T	4	2
%D	61	61

VT RTE 30 MAJOR COLLECTOR POSTED SPEED 50 MPH		
FLEXIBLE ESALS	2000-2020	2000-2040
	824,000	2,035,000



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 : L. ORVIS
SURVEYED DATE : 3/2000

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83 (92)

0 100 200
SCALE IN FEET

BUILT AS DESIGNED

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 1990, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR	
APPROVED _____	DATE _____
DIRECTOR OF PROJECT DEVELOPMENT	
APPROVED <i>[Signature]</i>	DATE 4/30/02
PROJECT MANAGER : ANN B. KREIS	
PROJECT NAME : SUDBURY	
PROJECT NUMBER : STP0161 (10)	
SHEET 1 OF 34 SHEETS	

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS
3	TYPICAL SHEET
4 - 5	QUANTITY SHEETS
6	BLANK
7	ITEM DETAIL AND DRAINAGE SHEET
8	EARTHWORKS SHEET
9 - 13	BLANKS
14 - 15	ROW SHEETS
16 - 17	BLANKS
18	TIE SHEET
19 - 20	PLAN AND PROFILE SHEETS
21	BLANK
22	MATERIAL TRANSITION DIAGRAM SHEET
23 - 24	BLANKS
25	TRAFFIC SIGN SUMMARY SHEET
26 - 27	BLANKS
28 - 33	CROSS SECTION SHEETS
34	CULVERT CROSS SECTION SHEET

STANDARDS

A-60	SLOPES IN SOLID ROCK EXCAV. (50MPH & OVER)	06-01-94
B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06-01-94
B-11	UNDERDRAIN - ROCK SUBGRADE, SLOPE STABILIZ.	06-01-94
B-71	STANDARDS FOR RESIDENTIAL AND COMMERCIAL DRIVES	11-16-00
D-2	C.R.M. HEADWALLS, UNDERDRAIN	06-01-94
E-100	CONSTRUCTION APPROACH SIGNS	01-06-97
E-101	CONSTRUCTION SIGN DETAILS	03-10-97
E-102	CONSTRUCTION SIGN DETAILS	08-08-95
E-102A	CONSTRUCTION SIGN DETAILS	08-08-95
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	08-08-95
E-107A	BREAKAWAY BARRICADE DETAILS	08-08-95
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-95
E-138	MILEMARKER DETAILS STATE & TOWN HIGHWAYS	08-08-95
E-151	WARNING SIGN DETAILS	08-08-95
E-155	WARNING SIGN DETAILS	08-08-95
E-160	FLANGED CHANNEL STEEL SIGN POST	05-20-99
T-1	TEMPORARY EROSION CONTROL DETAILS	06-01-94
T-2	TEMPORARY EROSION CONTROL DETAILS	06-01-94

DATUM	
VERTICAL	_____
HORIZONTAL	_____

PROJECT NAME: SUDBURY	
PROJECT NUMBER: ST 0161 (10)	
FILE NAME: /sqda/00c062/dc062frm.dgn	PLOT DATE: 30-APR-2002
PROJECT LEADER: AJB	DRAWN BY: MGN
DESIGNED BY:	CHECKED BY:
dc062ind.i	SHEET 2 OF 34

TYPICAL SECTION

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	$\pm 1/4''$
SUBBASE (TOTAL DEPTH)	$\pm 1''$

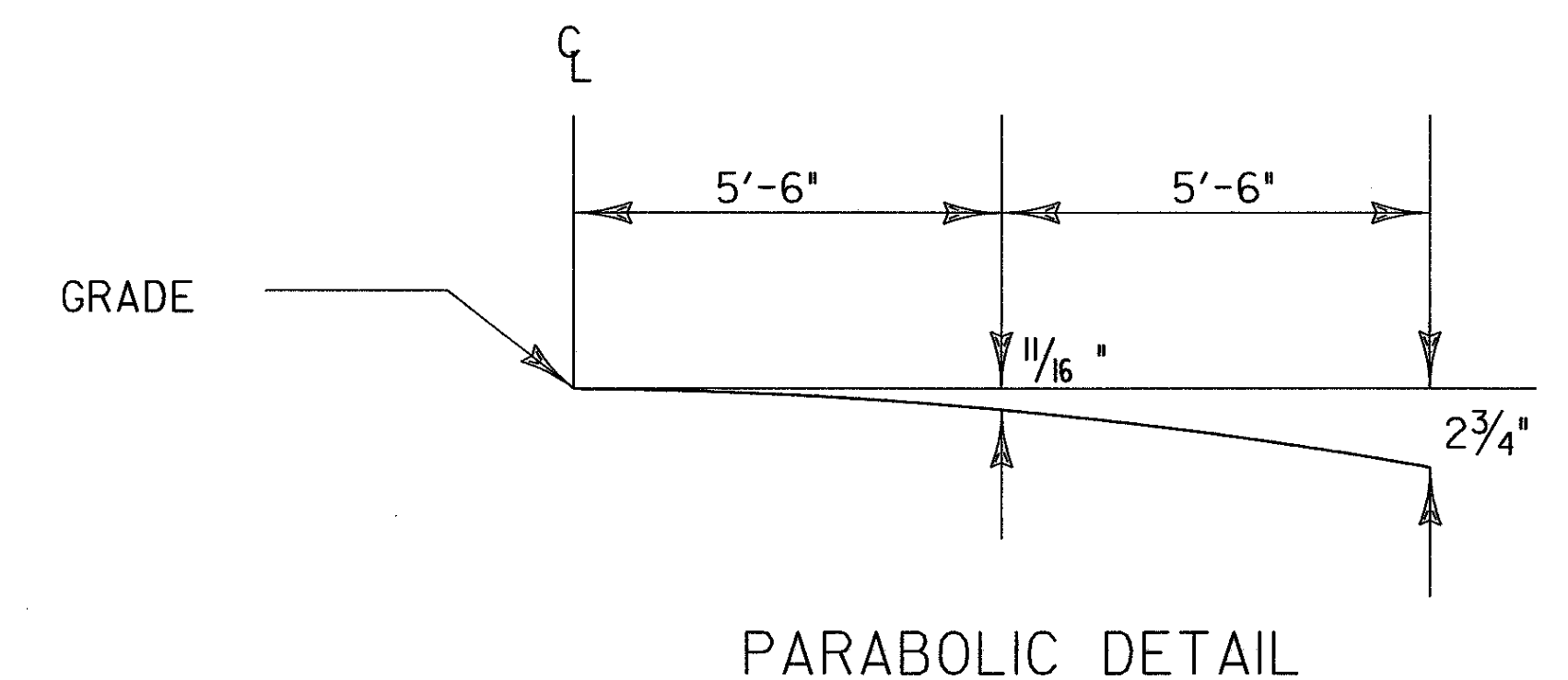
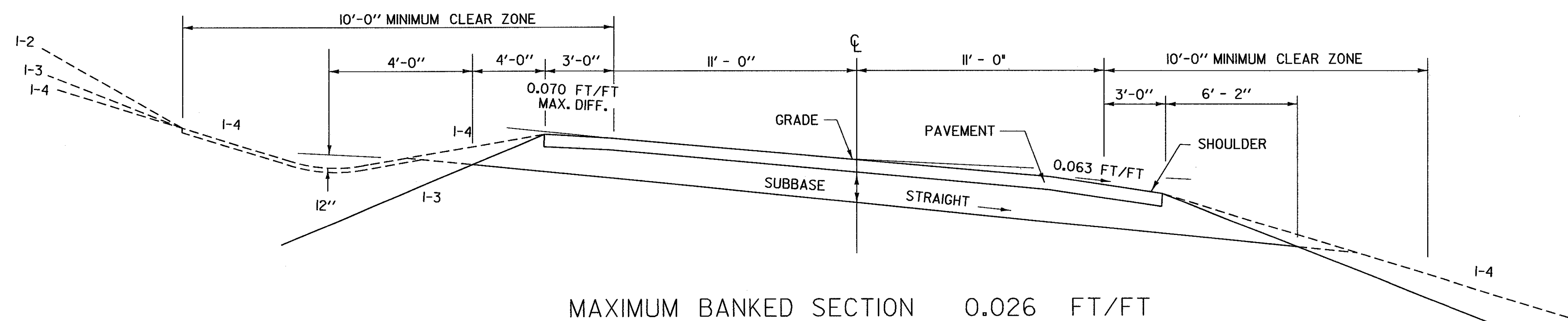
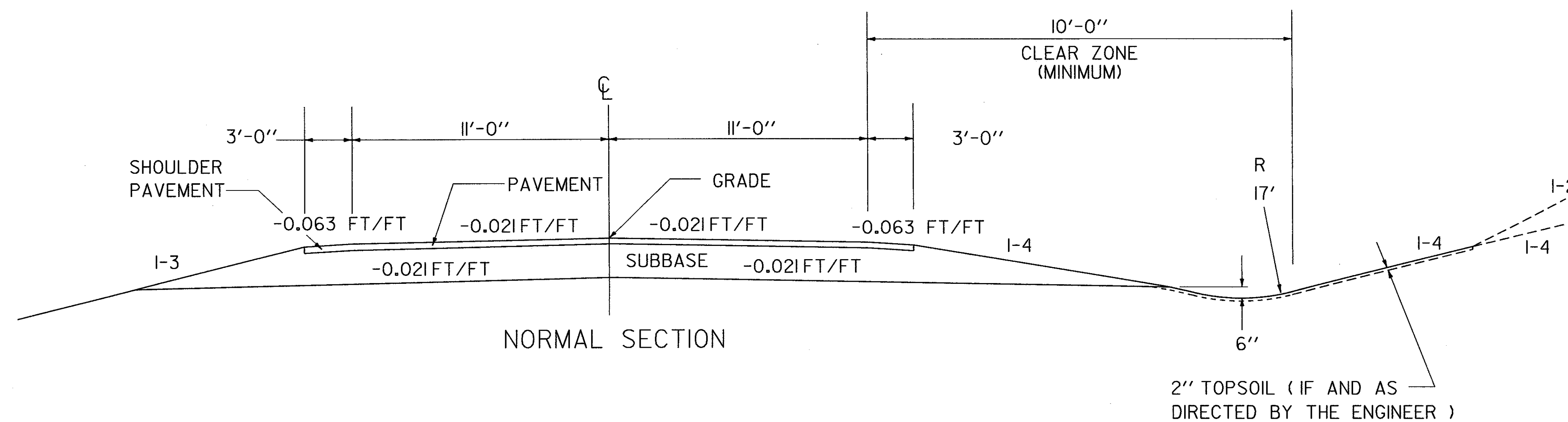
(TRAVEL LANES AND SHOULDERS)
 6" BITUMINOUS CONCRETE PAVEMENT (1 1/2" TYPE III OVER 2" TYPE II OVER 2 1/2" TYPE I) (PG 58-28)
 18" SUBBASE OF DENSE GRADED CRUSHED STONE

SEEDING FORMULA RURAL AREAS

% WT.	LBS./A.	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 RYEGRASS	95	85
100.0	60.0			

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 LBS./ACRE. (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.
- 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 0.015 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.



NOT TO SCALE

PROJECT NAME: SUDBURY	PLOT DATE: 20-DEC-2001
PROJECT NUMBER: ST 0161(10)	DRAWN BY: MGN
FILE NAME: /sqda/00C062/dc062nul.dgn	CHECKED BY:
PROJECT LEADER: AJB	SHEET 3 OF 34
DESIGNED BY: MGN	

QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES													TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES							
													FULL E&C ITEMS	EROSION CONTROL	ROADWAY	BRIDGE QUANTITY	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS	
															1		1			LS	CLEARING AND GRUBBING (INCLUDING INDIV. TREES & STUMPS)	201.10			BITUMINOUS CONCRETE PAVEMENT (PG 58 - 28)	
															2207		3	2210			CY	COMMON EXCAVATION	203.15	382	TON	1.5" TYPE III
															3804		6	3810			CY	SOLID ROCK EXCAVATION	203.16	479	TON	2" TYPE II
															188		12	200			CY	EARTH BORROW	203.30	605	TON	2.5" TYPE I
															5868		32	5900			SY	FINE GRADING-SUBGRADE	203.40	180	TON	TEMPORARY DETOUR
														28	52			80			CY	TRENCH EXCAVATION OF EARTH	204.20	36	TON	ROUND
															3			3			CY	TRENCH EXCAVATION OF ROCK	204.21	1700	TON	TOTAL
															1233		17	1250			SY	DRILLING AND BLASTING OF SOLID ROCK SUBGRADE	205.20			TEMPORARY EROSION CONTROL
															318		7	325			SY	COLD PLANING-BIT PAVEMENT	210.10	28	CY	TRENCH EXCAVATION OF EARTH
															533		17	550			SY	SCARIFYING PAVEMENT	212.20	130	CY	SUBBASE OF DENSE GRADED CRUSHED STONE
														130	2655		15	2800			CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	130	CY	SUBBASE OF DENSE GRADED CRUSHED STONE
															11		1	12			CWT	EMULSIFIED ASPHALT	404.65	13	CY	STONE FILL, TYPE I
															1700			1700			TON	BITUMINOUS CONCRETE PAVEMENT (PG 58-28)	406.25	120	CY	GEOTEXTILE FABRIC FOR SILT FENCE
															58			58			LF	18" PCCSP(PI) .064 (2-2/3X1/2)	601.0615	1	TON	HAY MULCH
															18		2	20			LF	36" PCCSP .079 (2-2/3 X 1/2)	601.0446	17	LB	SEED - WINTER RYE
															3			3			CY	CEMENT RUBBLE MASONRY	602.15	30	EA	HAY BALES
															68		2	70			MGAL	DUST CONTROL WITH WATER	609.10			
															1			1			TON	DUST & ICE CONTROL WITH CALCIUM CHLORIDE	609.15			
														45			5	50			CY	STONE FILL, TYPE I	613.10			
															2			2			EACH	YIELDING MARKER POSTS	619.17			
															310		15	325			LF	REMOVING OF EXISTING FENCE	620.55			
															100			100			LF	TEMPORARY TRAFFIC BARRIER	621.90			
															500			500			HR	UNIFORMED TRAFFIC OFFICERS	630.10			
															800			800			HR	FLAGGERS	630.15			
														1				1			LS	FIELD OFFICE-ENGINEERS	631.10			
														1				1			LS	TESTING EQUIPMENT - CONCRETE	631.16			
														1				1			LS	TESTING EQUIPMENT - BITUMINOUS	631.17			
														1				1			LU	FIELD OFFICE - TELEPHONE (N.A.B.I.)	631.25			
															1			1			LS	MOBILIZATION	635.10			
															1			1			LS	TRAFFIC CONTROL	641.10			
															2900		100	3000			LF	4" WHITE LINE	646.20			
															2900		100	3000			LF	4" YELLOW LINE	646.21			
															2900		100	3000			LF	TEMPORARY 4" WHITE LINE	646.60			
															400			400			LF	TEMPORARY 4" WHITE LINE (TAPE - TYPE II)	646.60			
															4100			4100			LF	TEMPORARY 4" YELLOW LINE	646.61			
															800			800			LF	TEMPORARY 4" YELLOW LINE (TAPE - TYPE II)	646.61			
															156		4	160			EACH	LINE STRIPING TARGETS	646.73			
															1981		19	2000			SY	GEOTEXTILE FOR ROADBED SUBGRADE SEPARATOR (DETOUR)	649.11			
															1920		30	1950			SY	GEOTEXTILE FOR SILT FENCE	649.51			
														68			2	70			LB	SEED	651.15			

PROJECT NAME: **SUDBURY**
PROJECT NUMBER: **ST 0161 (10)**
FILE NAME: 0 PLOT DATE: 12/20/01
PROJECT LEADER: ABJ DRAWN BY: JAS
DESIGNED BY: 0 CHECKED BY: 0
QUANTITY SHEET #1 SHEET 4 OF 34

QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES													TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES						
													EROSION CONTROL	FULL E&C ITEMS	ROADWAY	BRIDGE QUANTITY	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS
																100		100		CY	STONE FILL, TYPE III	613.12			
															14			14		TON	BITUMINOUS CONCRETE CURB, TYPE A	616.30			
															4			4		EACH	YIELDING MARKER POSTS	619.17			
															1691		34	1725		LF	STEEL BEAM GUARD RAIL	621.20			
															8			8		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60			
															190			190		LF	REMOVL AND DISP OF GUARD RAIL	621.80			
															250			250		LF	TEMPORARY TRAFFIC BARRIER	621.90			
															100			100		HR	UNIFORMED TRAFFIC OFFICERS	630.10			
															750			750		HR	FLAGGERS	630.15			
														1				1		LS	FIELD OFFICE-ENGINEERS	631.10			
														1				1		LS	TESTING EQUIPMENT - CONCRETE	631.16			
														1				1		LS	TESTING EQUIPMENT - BITUMINOUS	631.17			
														1				1		LU	FIELD OFFICE TELEPHONE (NABI)	631.25			
														1	1			1		LS	MOBILIZATION	635.10			
															1			1		LS	TRAFFIC CONTROL	641.10			
															2198		52	2250		LF	4" WHITE LINE	646.20			
															2198		52	2250		LF	4" YELLOW LINE	646.21			
															30			30		LF	24" STOP BAR	646.26			
															2198		52	2250		LF	TEMPORARY 4" WHITE LINE	646.60			
															2198		52	2250		LF	TEMPORARY 4" YELLOW LINE	646.61			
															30			30		LF	TEMPORARY 24" STOP BAR	646.66			
															60			60		EACH	LINE STRIPING TARGETS	646.73			
															53		22	75		SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.82			
													120					120		SY	GEOTEXTILE UNDER STONE FILL	649.31			
													1104				46	1150		SY	GEOTEXTILE FOR SILT FENCE	649.51			
													150					150		LB	SEED	651.15			
													12					12		LB	SEED-WINTER RYE	651.17			
													1250					1250		LB	FERTILIZER	651.18			
													5					5		TON	AGRICULTURAL LIMESTONE	651.20			
													6					6		TON	HAY MULCH	651.25			
													100					100		EACH	HAY BALES FOR EROSION CONTROL	651.26			
															69		6	75		CY	TOPSOIL	651.35			
																20		20		SY	GRUBBING MATERIAL	651.40			
													120					120		SY	EROSION MATTING	654.10			
															27			27		SF	TRAFFIC SIGNS, TYPE A	675.20			
															90		10	100		LF	FLANGED CHANNEL SIGN POST	675.301			
															7			7		EACH	REMOVING SIGNS	675.50			
															1			1		EACH	ERECTING SALVAGED SIGNS	675.60			

PROJECT NAME: **WINHALL**
PROJECT NUMBER: **PFH 002-1(1)**
FILE NAME: sqda/de206/quantity.xls PLOT DATE: 6/6/02
PROJECT LEADER: A. Bombardier DRAWN BY: R. Kehne
DESIGNED BY: 0 CHECKED BY: 0
QUANTITY SHEET #2 SHEET 5 OF 45

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

																				SUMMARY AND BALANCES																				
		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT						TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT						TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT						STATION TO STATION		TOT. EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES		ACUMULATIVE EXCESSES	
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION TO STATION	TOT. EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	CUT	FILL	CUT	FILL			
FT.		S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.		S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.		S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.		S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	
267+50		0		0		0																							267+50	272+50	1787	356	52	1904		1904				
268+00	50	51	47	0		2																							272+50	277+50	3861	3448	710	4751		6655				
268+50		40	64	0		11																							277+50	281+50	363	0	118	228		6883				
269+00	50	29	64	0		10																																		
269+50	50	42	66	0		4																																		
270+00	50	41	77	0		1																																		
270+50	50	53	87	0		1																																		
271+00	50	85	128	0		0																																		
271+50	50	165	231	0		0																																		
272+00	50	267	400	0		0																																		
272+50	50	384	603	0	356	0																																		
273+00	50	573	886	384	886	0																																		
273+50	50	1085	1085	573	1085	0																																		
274+00	50	599	1016	498	1016	0																																		
274+50	50	498	601	0	461	0																																		
275+00	50	151	192	0	43	0																																		
275+50	50	56	67	0	118	0																																		
276+00	50	16	142	0	142	0																																		
276+50	50	0	137	0	76	0																																		
277+00	50	0	148	0	84	0																																		
277+50	50	0	123	0	49	0																																		
278+00	50	0	63	0	19	0																																		
278+50	50	6	25	0	8	0																																		
279+00	50	21	11	0	4	0																																		
279+50	50	31	6	0	2	0																																		
280+00	50	38	5	0	5	0																																		
280+50	50	44	6	0	3	0																																		
281+00	50	56	3	0	3	0																																		
281+50	50	0	3	0	0	0																																		

REMARKS	
NOTE: FORMULA TO BE USED FOR TOTAL PROJECT CASE II - UNUSUAL SITUATION (MORE FACTORED ROCK THAN FILL ON PROJECT). $C + 0.30R - F$	
C = TOTAL EXCAVATION (EARTH & ROCK)	
R = SOLID ROCK EXCAVATION	
F = TOTAL FILL	
TOTAL EARTH AND ROCK EXCAVATION (C)	6011
TOTAL EXCAVATION	6011
SOLID ROCK EXCAVATION (R)	3804
FACTOR	0.3
TOTAL FACTOR SOLID ROCK EXCAVATION	1141
TOTAL PLANIMETERED FILL (F)	880
EXCESS EXCAVATION (C + 0.30R - F)	6272

PROJECT NAME:	Sudbury
PROJECT NUMBER:	ST 0161 (10)
FILE NAME:	0
PROJECT LEADER:	AJB
DESIGNED BY:	0
EARTHWORK SHEET #1	
PLOT DATE:	12/20/01
DRAWN BY:	JAS
CHECKED BY:	0
SHEET	8 OF 34

**STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET**

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY	
1	ROJECKI, ROBERT G. & B. SUSIE CAGLE	5	271+12 RT.	275+56 RT.			CONST. (T) 0.1A±						4,330 S.F.± INCLUDES EROSION CONTROL			ELECTRONIC FILES TO DESIGN 04-30-02				
			271+42 RT.	275+27 RT.			DETOUR (T) 0.2A±						8,940 S.F.±							
			275+24 RT.				REMOVE & RESET (T)						IRON P-IN							
2	LEEDOM, CARLTON R., JR.	5	269+79 LT.				DRAINAGE (P)			SUDBURY			DRIVE, 12' WIDE, MM 5115 FENCE							
			271+00 LT.				ALL R. T. & L.						INCLUDES EROSION CONTROL							
			271+27 LT.	274+24 LT.			CONST. (T) 2,030S.F.±													
			271+46 LT.	274+20 LT.			SLOPE (P) 120S.F.±													
			272+82 LT.	273+57 LT.																
3	MOUNTAIN MEADOWS FARM, INC.	5	276+00 LT.				DRAINAGE (P)	OPTION	03-17-04	SUDBURY	43	308								

ACT:mrz/01
P:\P\04736\rc062.dgn
DATE PLOTTED 29-MAR-2004

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND
C&T (P)
F&P (P)
CONSTRUCTION
SR
SR
L
L
L
L
TOP OF CUT
TOP OF SLOPE

..US. (P) ... PERMANENT UTILITY EASEMENT
APPROVED: ROGER P. DUMAS DATE: 06/20/01
CHIEF, PLANS & TITLES

R. O. W. PLANS

SUDBURY
STP 0161 (10)
R. O. W. SHEET 4 OF 5 SHEETS
SHEET 14 OF 34

BEGIN R.O.W. PROJECT
 ST 0161 (10) STA. 269+79 49.5' LT.

CURVE DATA # 1
 $\Delta = 27^{\circ}00'56.39" \text{ LT}$
 $D = 7^{\circ}30'00.13"$
 $R = 763.94'$
 $T = 182.89'$
 $L = 360.21'$
 $E = 21.73'$
 $\text{BANK} = 0.080$

②

LEEDOM,
 CARLTON R. JR.

END R.O.W. PROJECT
 ST 0161 (10) STA. 276+32 49.5' LT.

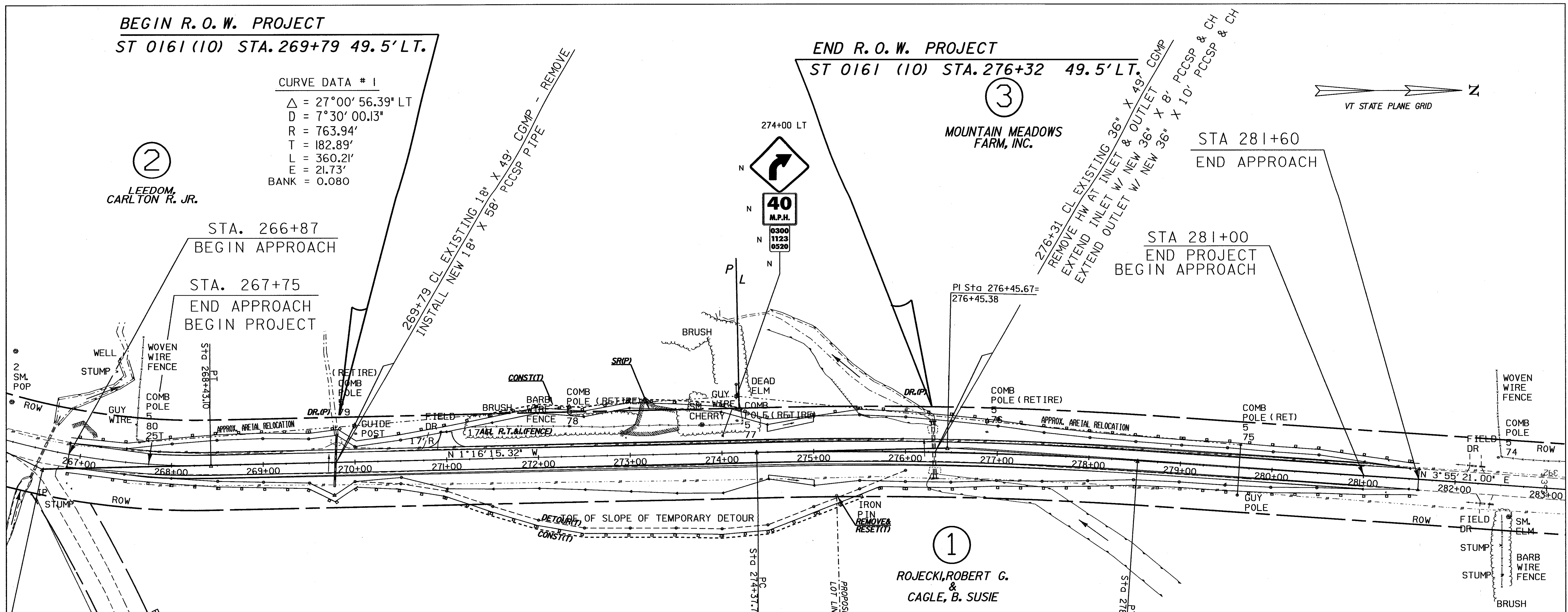
③

MOUNTAIN MEADOWS
 FARM, INC.



STA 281+60
 END APPROACH

STA 281+00
 END PROJECT
 BEGIN APPROACH



BM #5
 RRS IR
 IN L. STUMP
 ELEV. 391.54

LEGEND
 RET= RETAIN
 R= REMOVE
 N= NEW
 — SILT FENCE

REMOVING SIGNS
 5 EACH
 4" WHITE LINE
 267+25 - 281+75 LT
 267+25 - 281+75 RT
 4" YELLOW LINE
 *267+25 - 281+75 CL (DBL)

TEMPORARY 4" WHITE LINE
 267+25 - 281+75 LT
 267+25 - 281+75 RT
TEMPORARY 4" YELLOW LINE
 267+25 - 281+75 CL (DBL)
 270+00 - 276+00 CL (DBL) (DETOUR)
TEMPORARY 4" WHITE LINE (TAPE-TYPE II)
 268+00 - 270+00 LT & RT
 276+00 - 278+00 LT & RT
TEMPORARY 4" YELLOW LINE (TAPE-TYPE II)
 268+00 - 270+00 CL (DBL) (DETOUR)
 276+00 - 278+00 CL (DBL) (DETOUR)

EARTH BORROW
 (TO COVER LEDGE IN CUT)
 272+00 ~ 274+50 LT & RT

STONE FILL, TYPE I
 274+50 ~ 275+00 LT
 274+50 ~ 275+00 RT

CONSTRUCT DRIVE
 271+00 LT (12' W, SUBBASE)

REMOVAL OF EXISTING FENCE
 271+27 - 274+24 LT

SCARIFYING PAVEMENT
 276+00 - 278+00

CURVE DATA # 2
 $\Delta = 5^{\circ}11'36.32" \text{ RT}$
 $D = 1^{\circ}15'$
 $R = 4583.66'$
 $T = 207.88'$
 $L = 415.47'$
 $E = 4.71'$
 $\text{BANK} = 0.026$

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.

**FOR R.O.W.
 USE ONLY**

PROJECT NAME: SUDBURY
 PROJECT NUMBER: STP 0161 (10)
 FILE NAME: /sqda/00c062/dc062nul.dgn
 PROJECT LEADER: AJB
 DESIGNED BY:
 R.O.W. SHEET 5 OF 5 SHEETS
 PLOT DATE: 26-JUN-2002
 DRAWN BY: MGN
 CHECKED BY:
 SHEET 15 OF 34

* THE RESIDENT ENGINEER WILL CONTACT
 TRAFFIC OPERATIONS TWO WEEKS PRIOR
 TO THE PLACING OF FINISH PAVMENT COURSE
 TO DETERMINE THE CENTER LINE PAVEMENT
 MARKINGS.

GPS CONTROL POINTS

HVCTRL # 1

STANDARD DISK STAMPED
Rockyknoll AZ MK
N = 483241.56
E = 1459246.83
ELEV. = 387.17

GENERAL LOCATION SUDBURY,VT. TO REACH FROM THE INTERSECTION OF VT.ROUTES 30 AND 73 EAST IN SUDBURY GO EAST ALONG VT.ROUTE 73 FOR 0.3 MI(0.5 KM) TO THE SITE OF THE MARK ON THE LEFT. IT IS ABOUT 15 M (49.2 FT) WEST OF THE ROAD LEADING TO SUDBURYS COUNTRY SCHOOL. THE MARK IS SET FLUSH WITH THE GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT SET 1.4 M (4.6 FT) DEEP. IT IS 2.8 M (9.2 FT) NORTH OF AND ABOUT 0.2 M (0.7 FT) LOWER THAN THE NORTH EDGE OF PAVEMENT OF VT.ROUTE 73, 11.6 M (38.1FT) WEST OF POLE NO.5/59/25T, 8.1M (26.6 FT) EAST OF THE NORTH (OUTLET) END OF A 35 CM METAL CULVERT, AND 1.8 M (5.9 FT) SOUTH OF A WIRE FENCE AND A FIBERGLASS WITNESS POST.

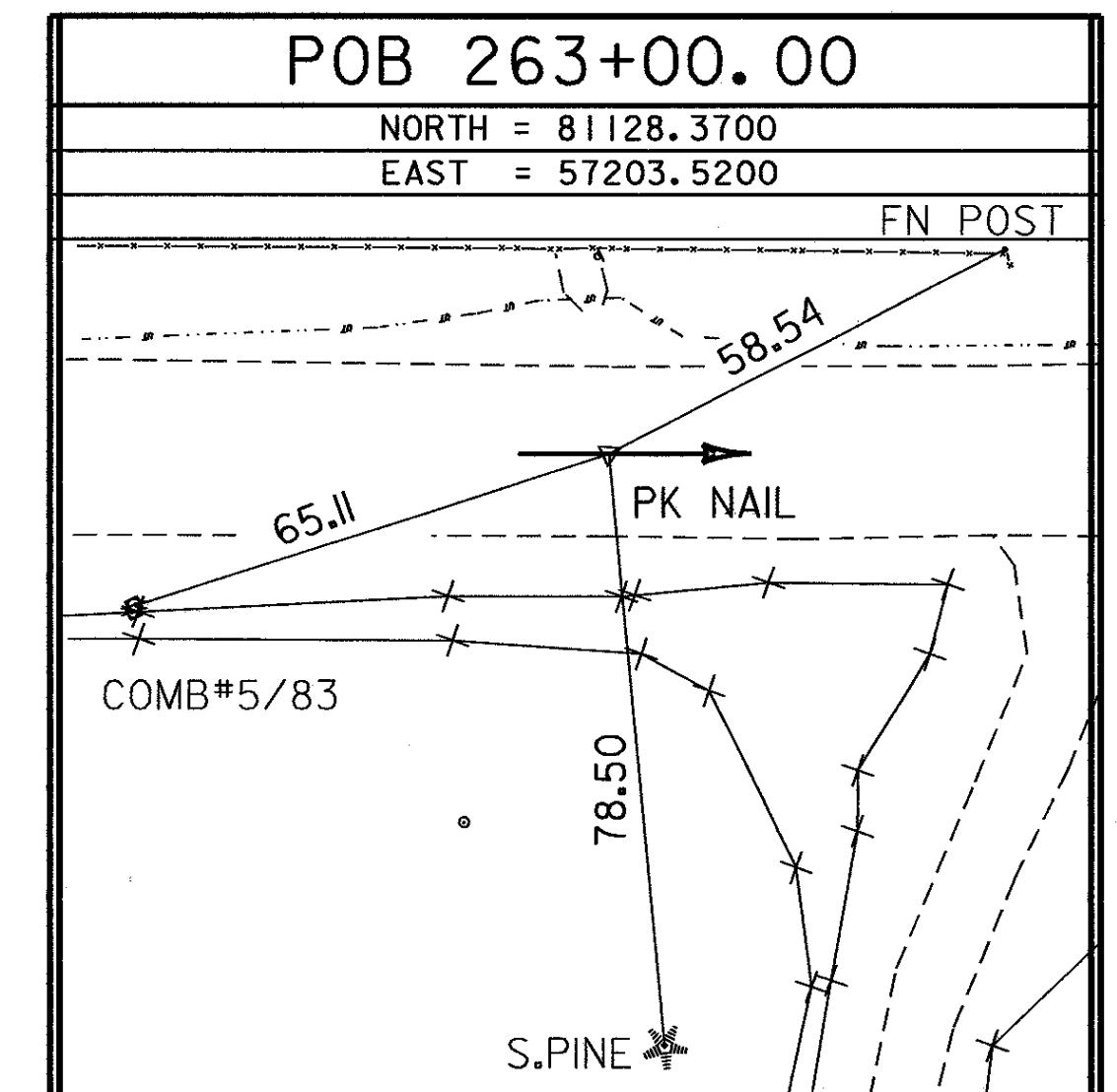
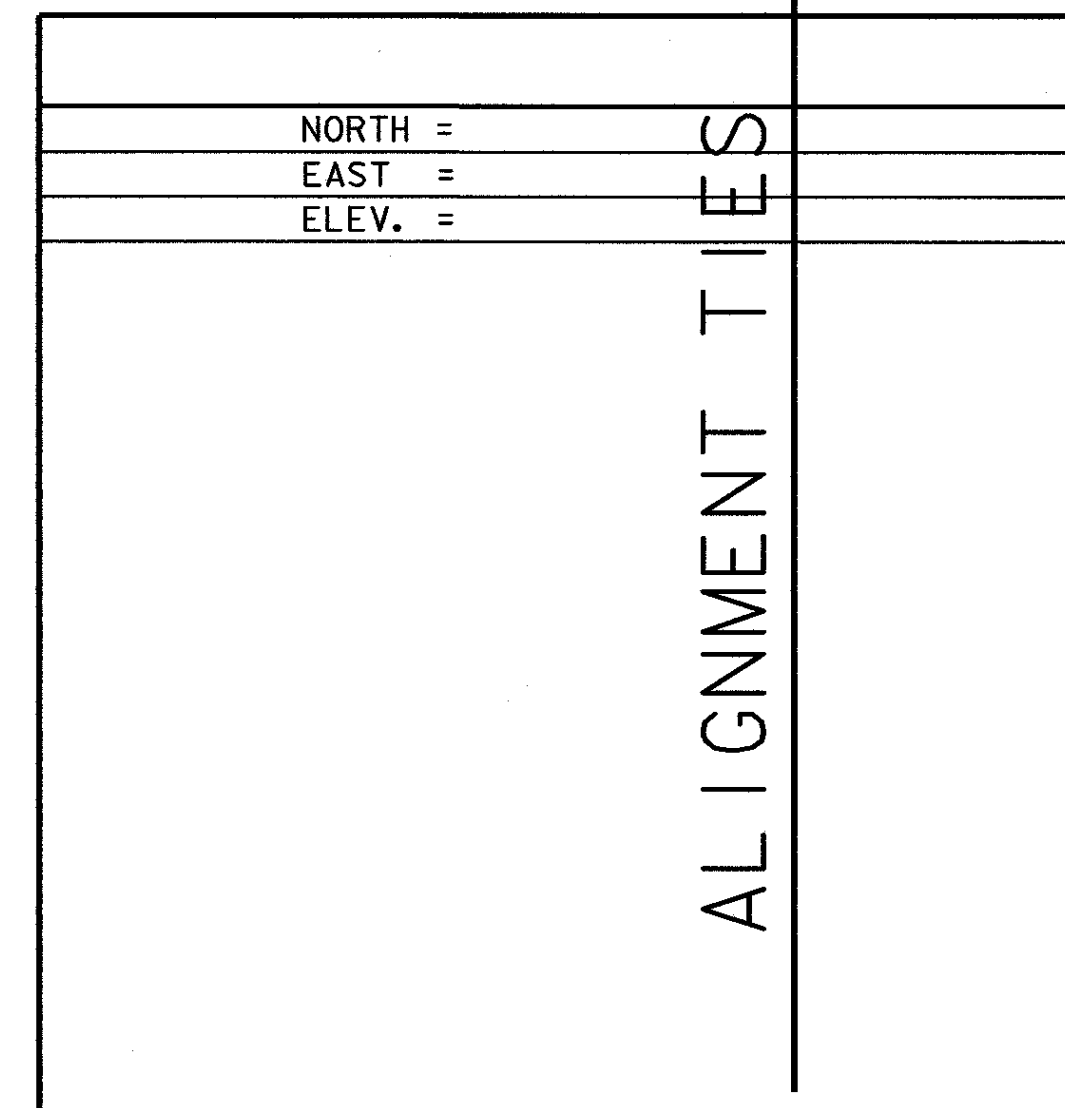
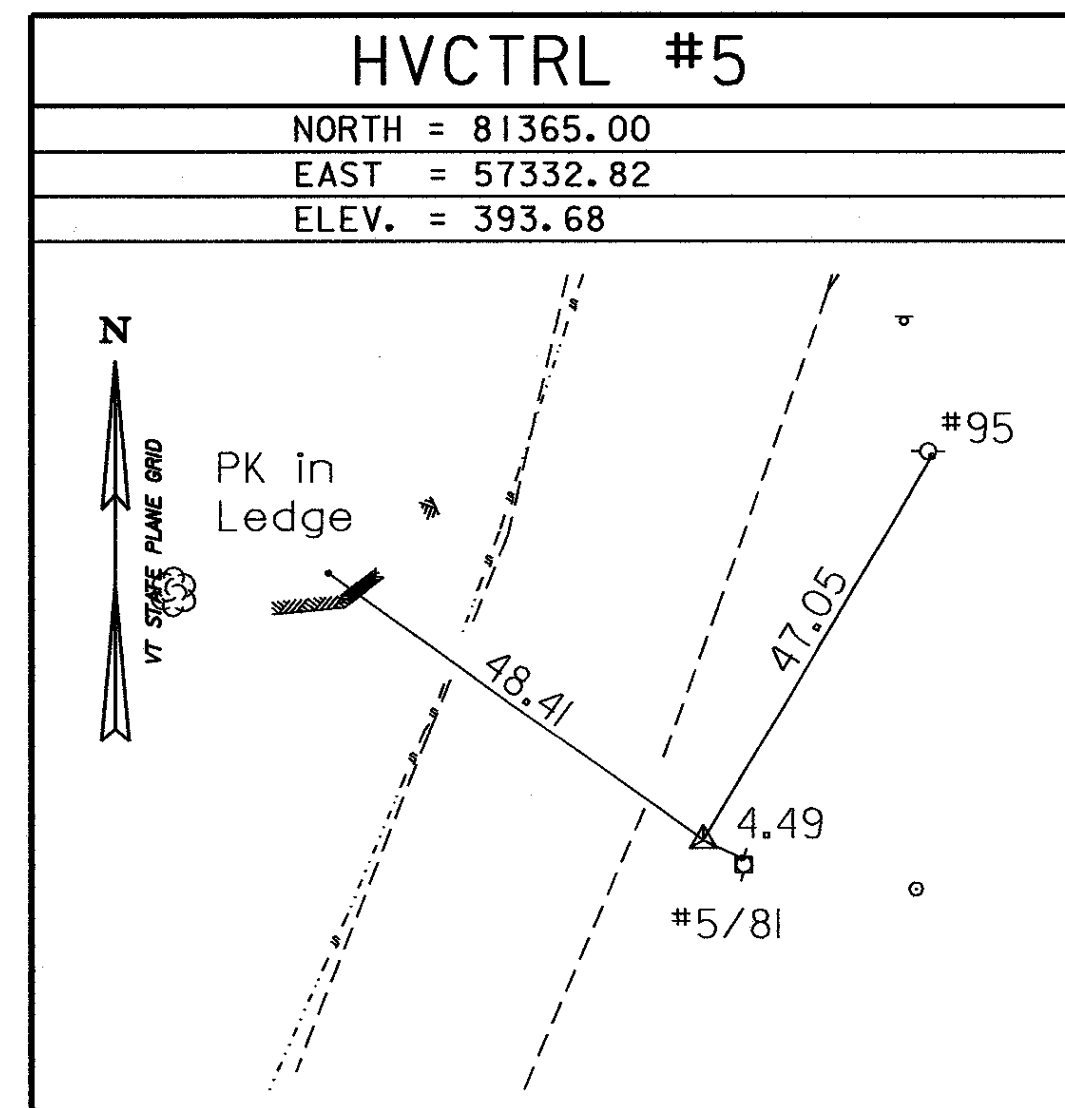
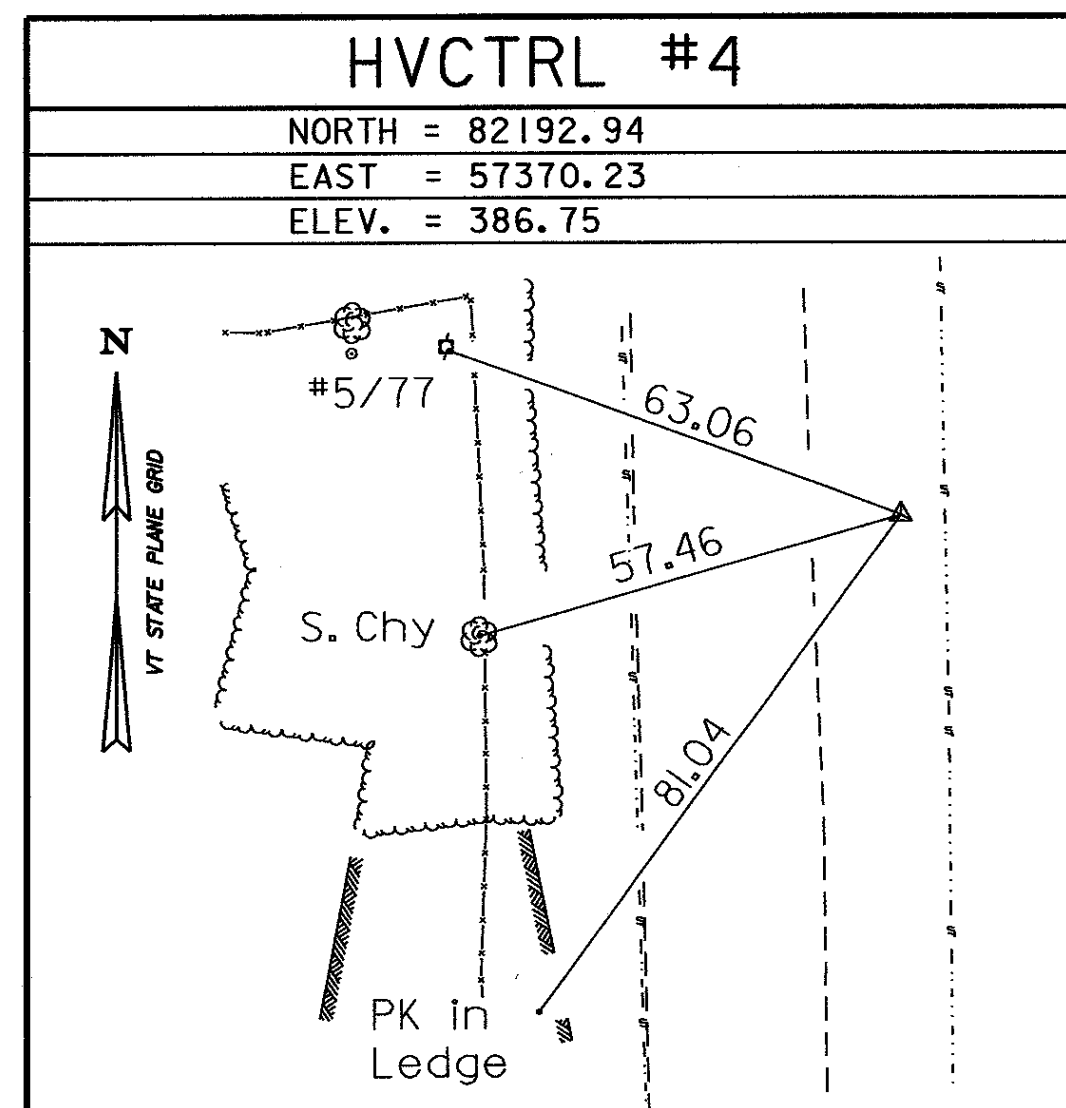
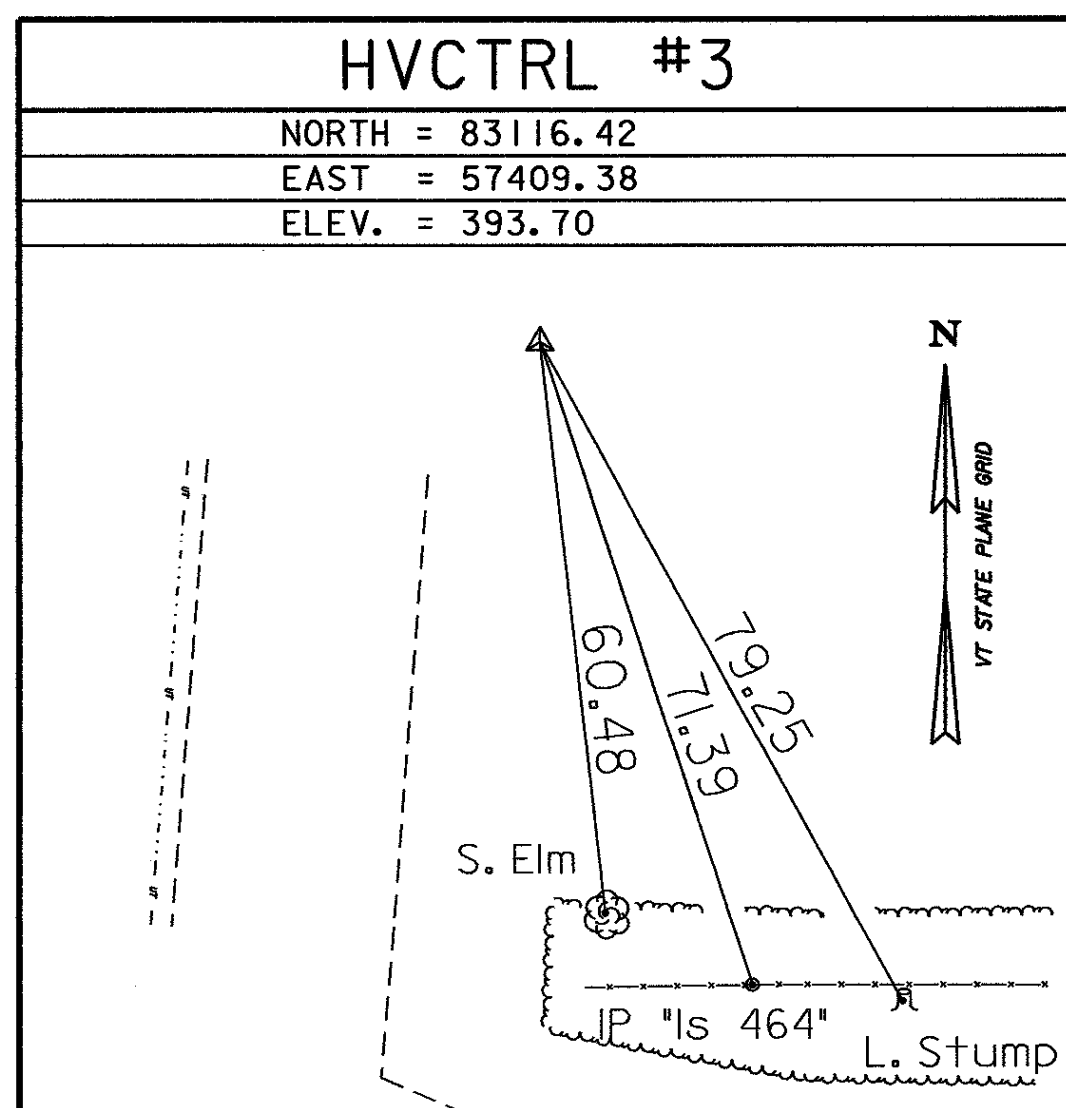
HVCTRL # 2

STANDARD DISK STAMPED
Rockyknoll
N = 484026.93
E = 57397.34
ELEV. = 429.86

GENERAL LOCATION SUDBURY,VT. OWNERSHIP,EMIL COOPER. CONTACT PERSON SEAN STEARNS,P.O.BOX 46 SOUTH NEWFANE,VT. 05351PHONE 802-348-7312. FARM 802-348 7344. THE MARK IS LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF VT.ROUTE 73 EAST, VT.ROUTE 30 AND VAIL ROAD. THE MARK IS SET FLUSH WITH THE GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT SET 1.0 M (3.3 FT) DEEP. IT IS 6.9 M (22.6 FT) WEST OF AND ABOUT 0.1M (0.3 FT) LOWER THAN THE WEST EDGE OF PAVEMENT OF VT.ROUTE 30, 13.6 M (44.6 FT) NORTH OF THE CENTERLINE OF VAIL ROAD, 21.3 M (69.9 FT) SOUTH OF THE SOUTHEAST CORNER OF A BARN, AND 7.2 M (23.6 FT) NORTH OF POLE NO.5/70 AND A FIBERGLASS WITNESS POST.

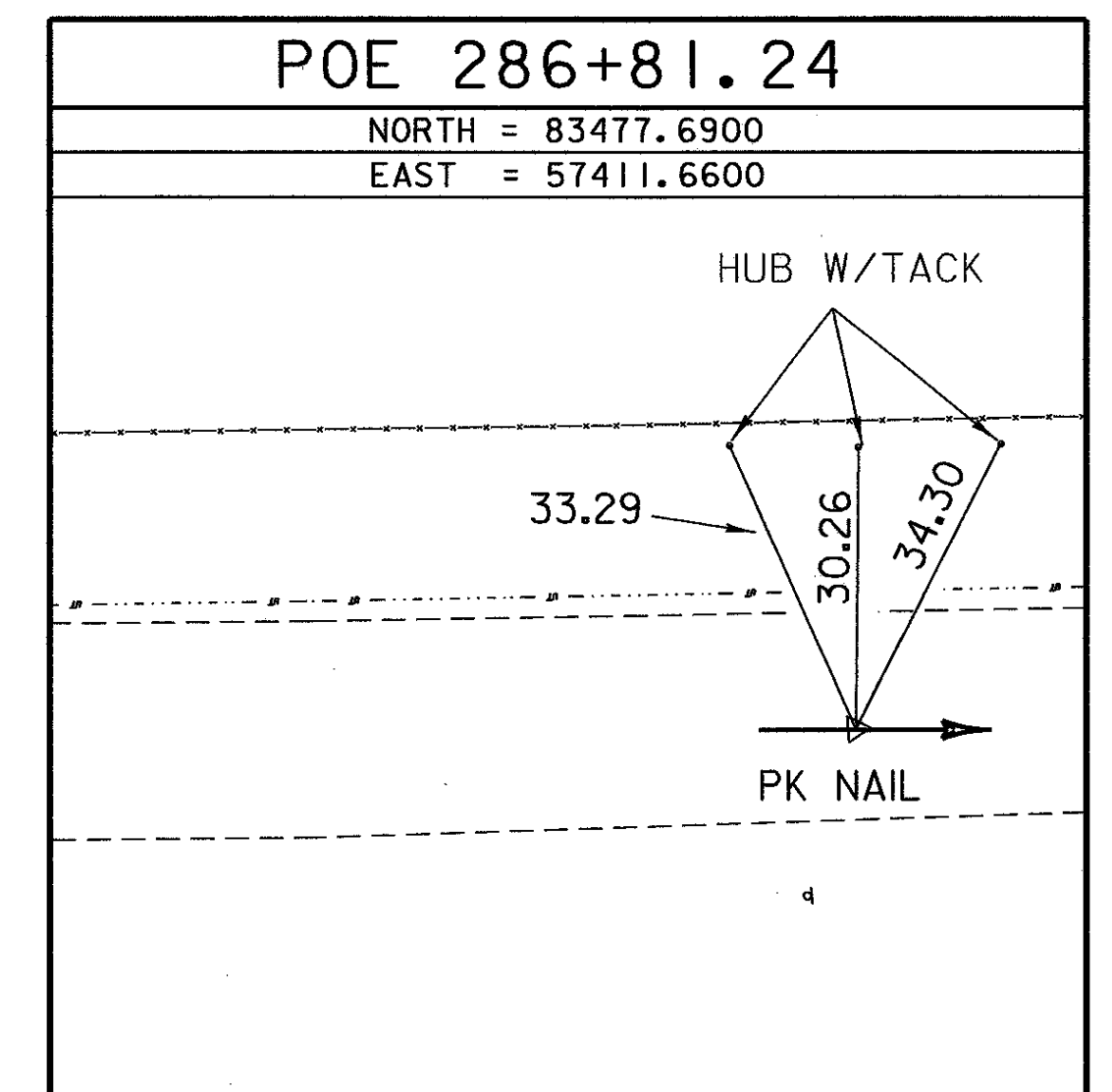
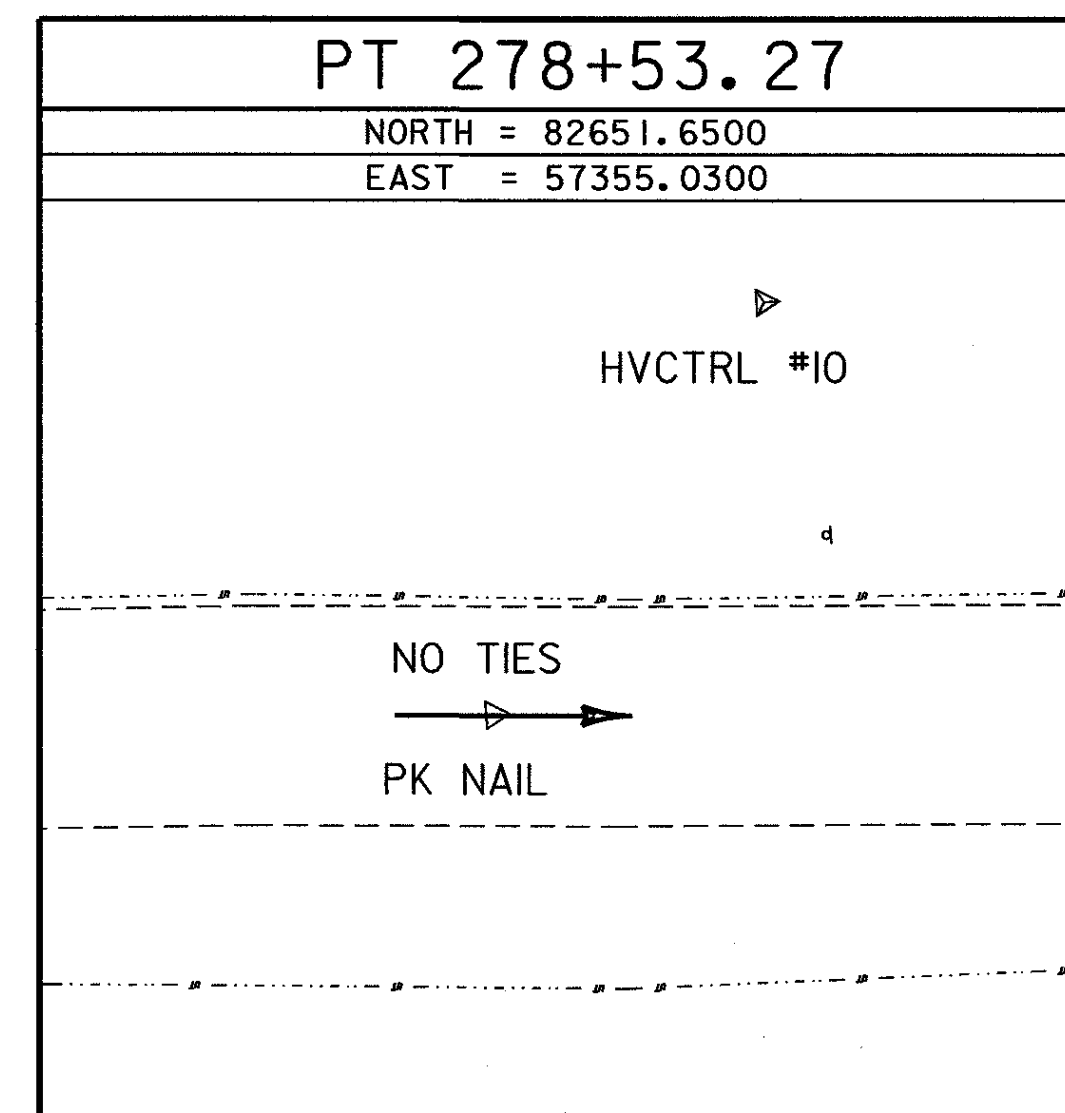
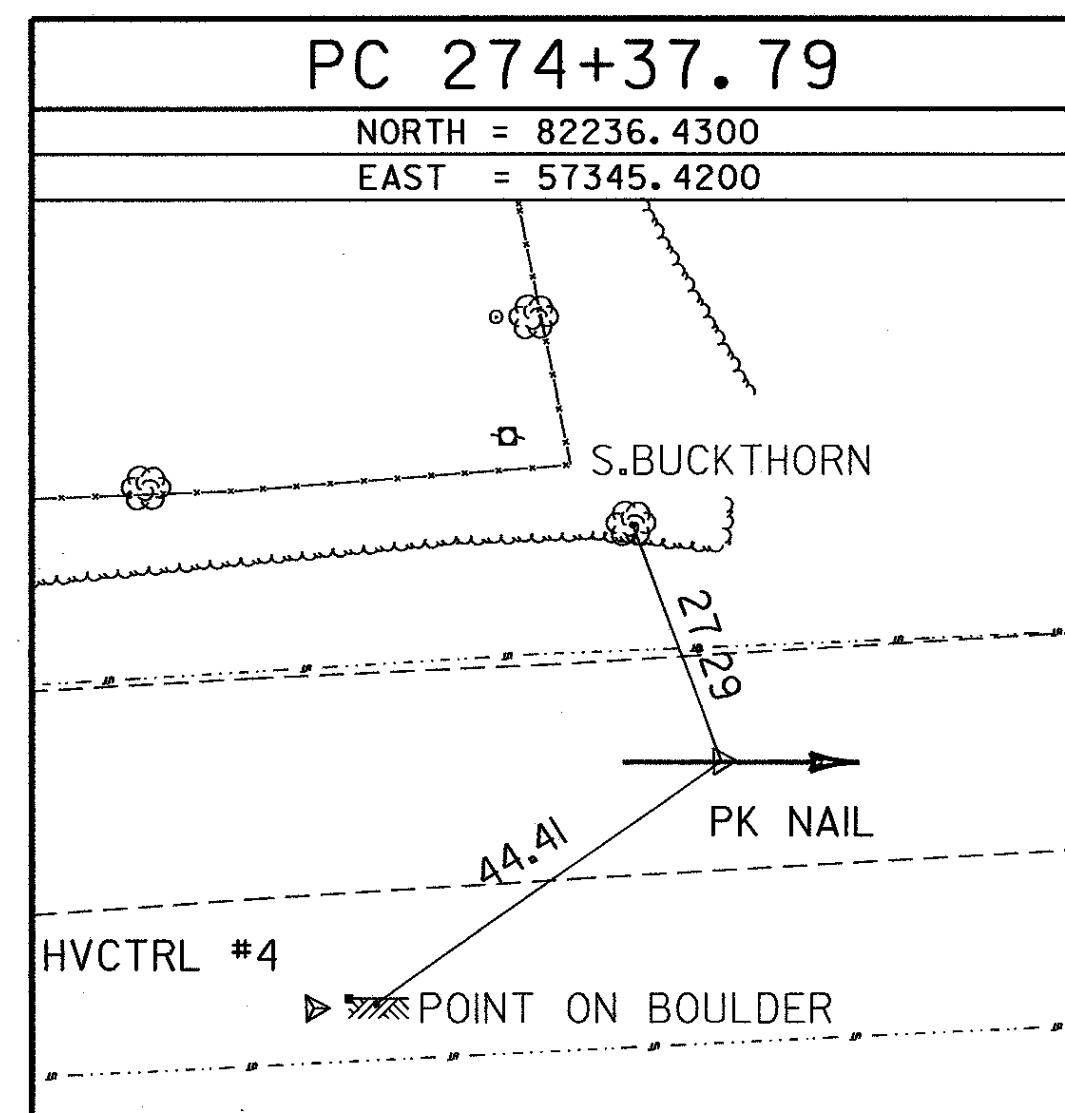
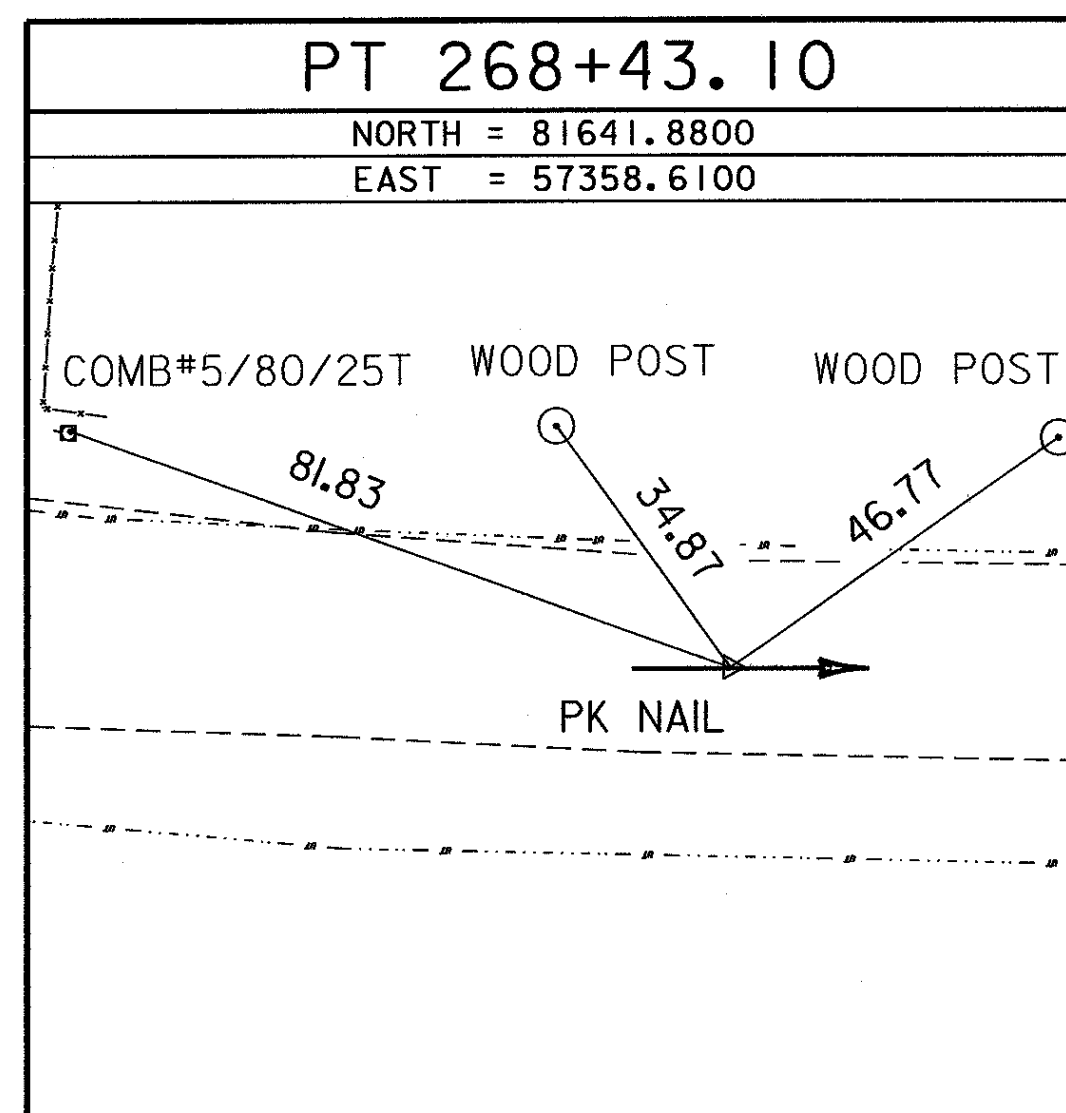
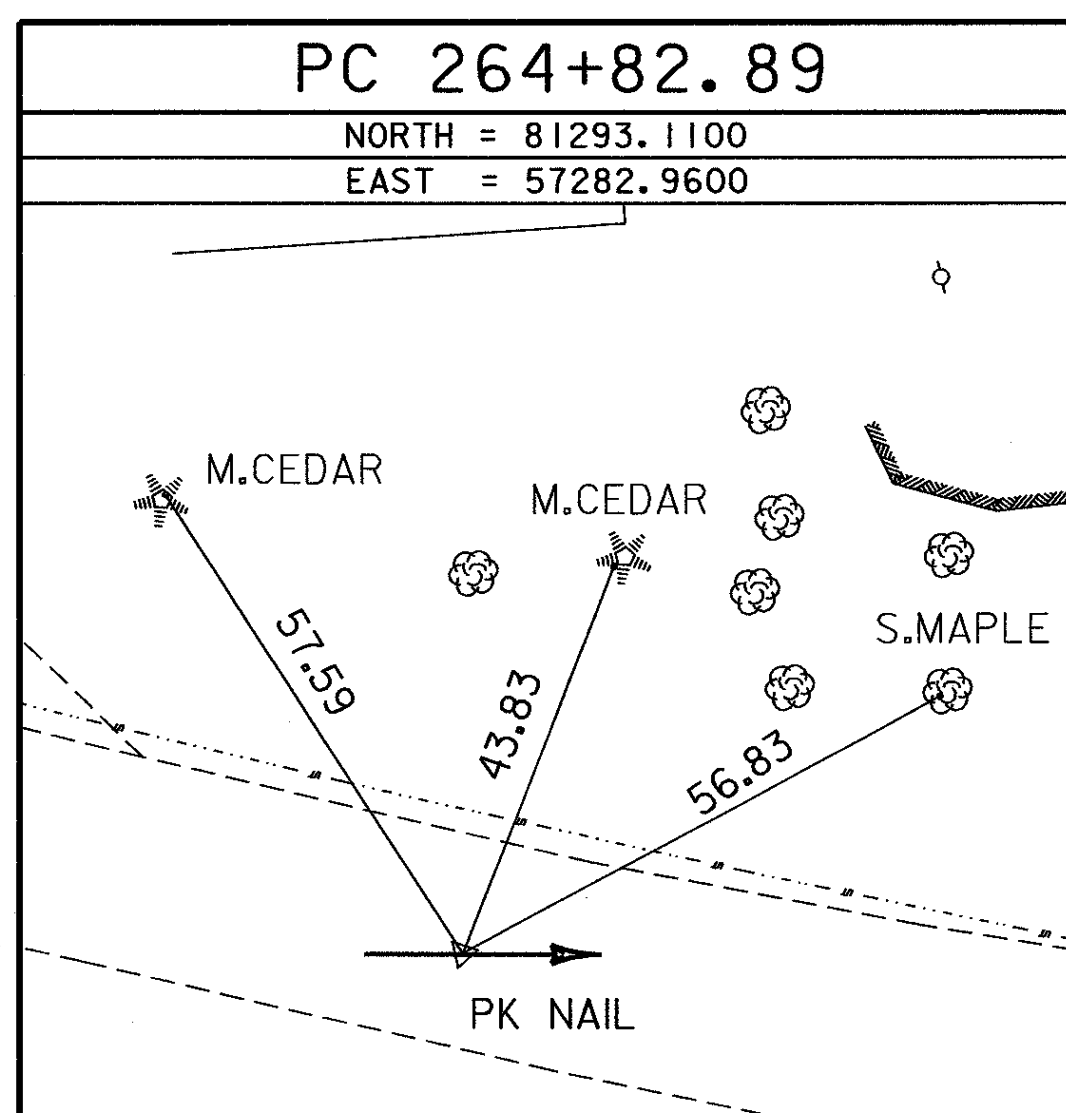
- TO ALLOW THE STATE PLANE COORDINATES TO FIT THE AGENCY DESIGN PLANE, SUBTRACT 400,000 FROM THE NORTHING AND SUBTRACT 1,400,000 FROM THE EASTING.
- DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES



• MAIN TRAVERSE COMPLETED 02/29/00 by L.Orvis & J.Hulet

ALIGNMENT TIES



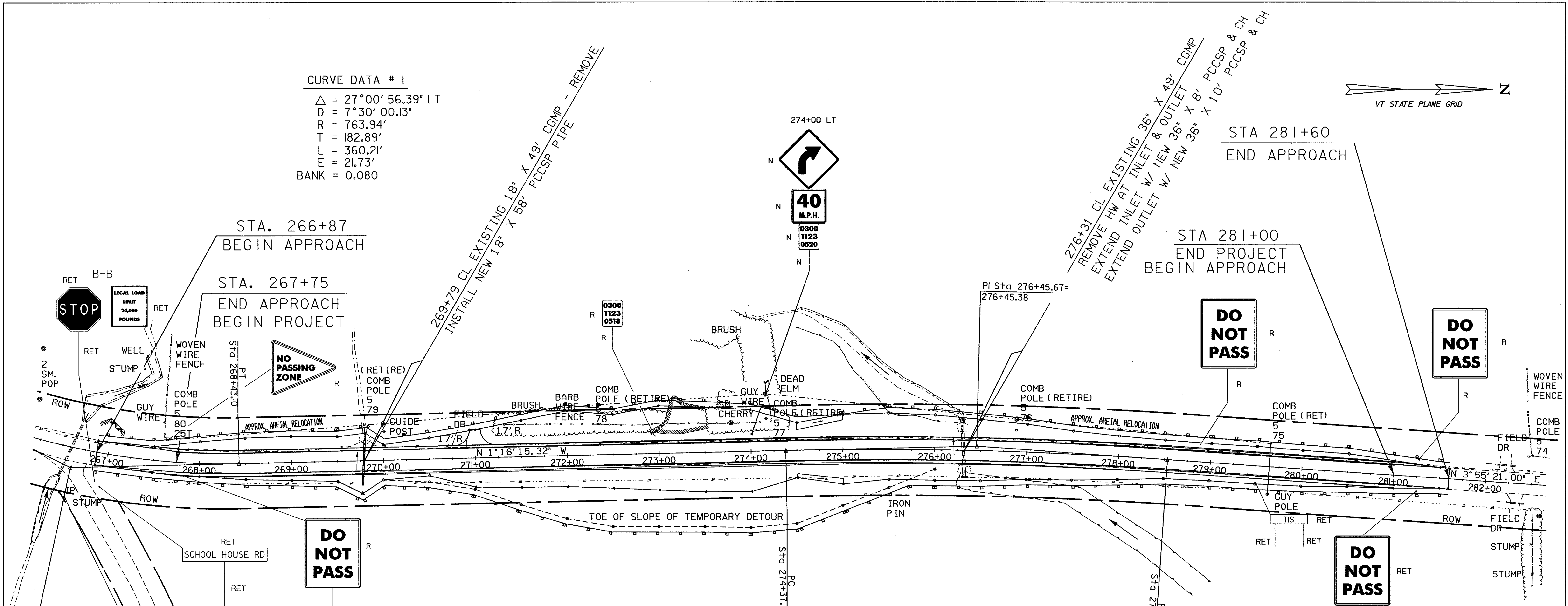
• ALIGNMENT COMPLETED 04/03/02 BY L.ORVIS & T.WILSON

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83/96
ADJUSTMENT COMPASS

PROJECT NAME: SUDBURY
PROJECT NUMBER: ST 0161(10)
FILE NAME: 00c062/survey/xc0621.dgn
PROJECT LEADER: R. Bullock
DESIGNED BY:
PLOT DATE: 30-APR-2002
DRAWN BY: R. Bullock
CHECKED BY:
SHEET 18 OF 84

CURVE DATA # 1

Δ = 27°00' 56.39" LT
 D = 7°30' 00.13"
 R = 763.94'
 T = 182.89'
 L = 360.21'
 E = 21.73'
 BANK = 0.080



CURVE DATA # 2

Δ = 5°11' 36.32" RT
 D = 1°15'
 R = 4583.66'
 T = 207.88'
 L = 415.47'
 E = 4.71'
 BANK = 0.026

- EARTH BORROW**
(TO COVER LEDGE IN CUT)
272+00 ~ 274+50 LT & RT
- STONE FILL, TYPE I**
274+50 ~ 275+00 LT
274+50 ~ 275+00 RT
- CONSTRUCT DRIVE**
271+00 LT (12' W, SUBBASE)
- REMOVAL OF EXISTING FENCE**
271+27 - 274+24 LT
- SCARIFYING PAVEMENT**
276+00 - 278+00

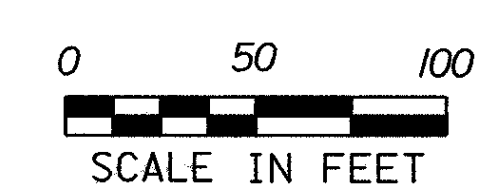
- REMOVING SIGNS**
5 EACH
- 4" WHITE LINE**
267+25 - 281+75 LT
267+25 - 281+75 RT
- 4" YELLOW LINE**
*267+25 - 281+75 CL (DBL)
- TEMPORARY 4" WHITE LINE**
267+25 - 281+75 LT
267+25 - 281+75 RT
- TEMPORARY 4" YELLOW LINE**
267+25 - 281+75 CL (DBL)
270+00 - 276+00 CL (DBL) (DETOUR)
- TEMPORARY 4" WHITE LINE (TAPE-TYPE II)**
268+00 - 270+00 LT & RT
276+00 - 278+00 LT & RT
- TEMPORARY 4" YELLOW LINE (TAPE-TYPE II)**
268+00 - 270+00 CL (DBL) (DETOUR)
276+00 - 278+00 CL (DBL) (DETOUR)

BM #5
RRSIR
IN L. STUMP
ELEV. 391.54

LEGEND
 RET= RETAIN
 R= REMOVE
 N= NEW

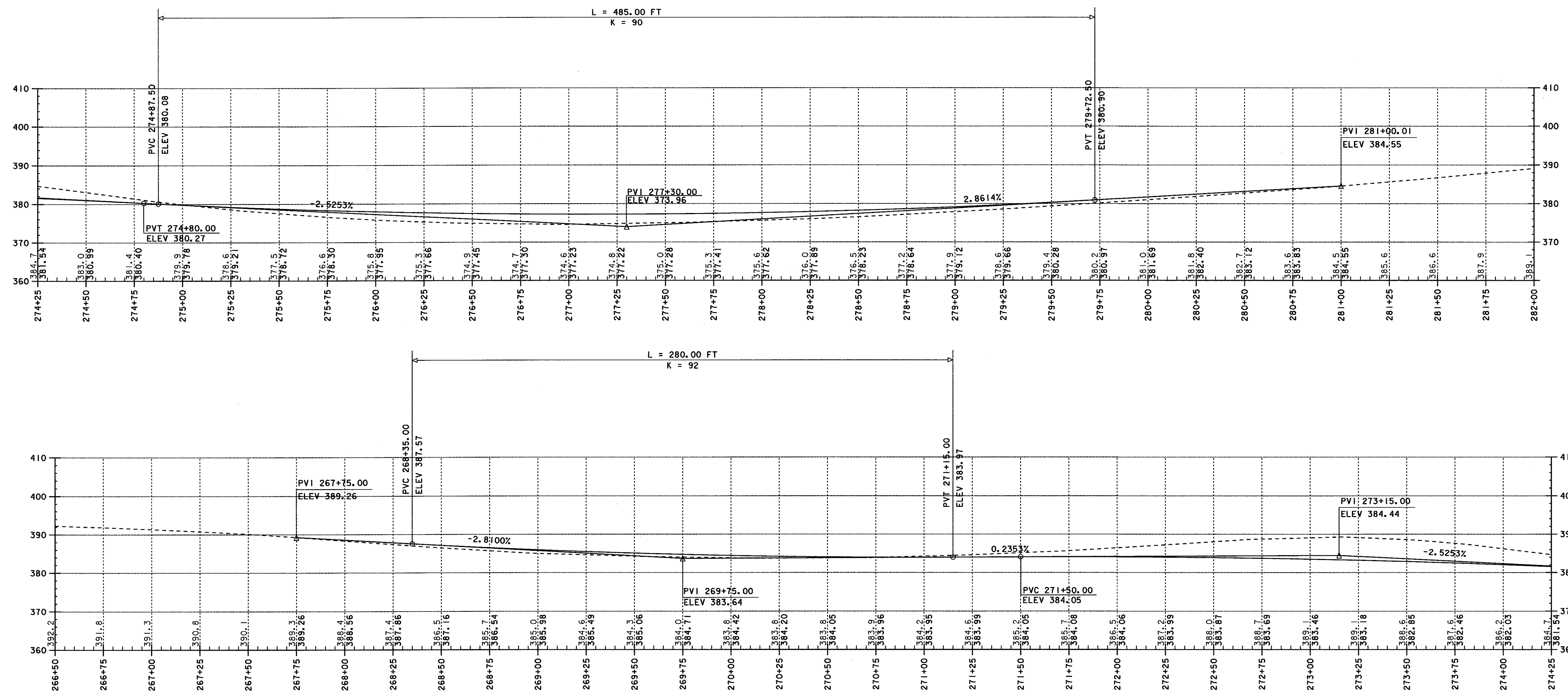
* THE RESIDENT ENGINEER WILL CONTACT TRAFFIC OPERATIONS TWO WEEKS PRIOR TO THE PLACING OF FINISH PAVEMENT COURSE TO DETERMINE THE CENTER LINE PAVEMENT MARKINGS.

DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

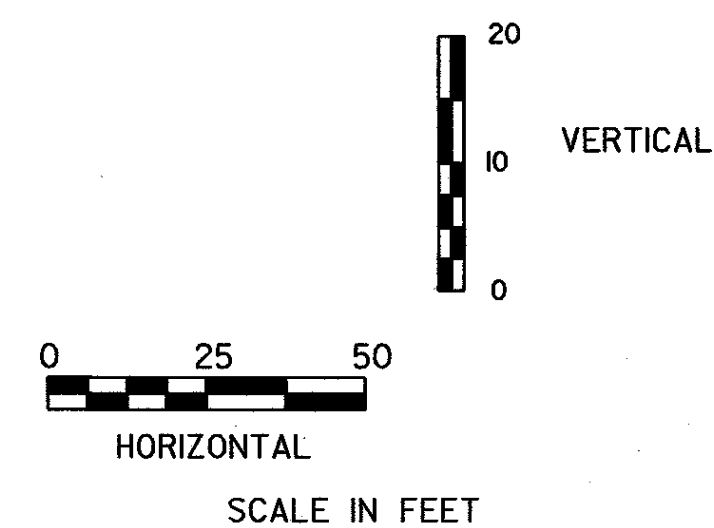


PROJECT NAME: SUDBURY
 PROJECT NUMBER: ST 0161(10)
 FILE NAME: /sqda/00c062/dc062nul.dgn
 PROJECT LEADER: AJB
 DESIGNED BY:
 dc06210.1
 PLOT DATE: 02-MAY-2002
 DRAWN BY: MGN
 CHECKED BY:
 SHEET 19 OF 34

VT RT 30

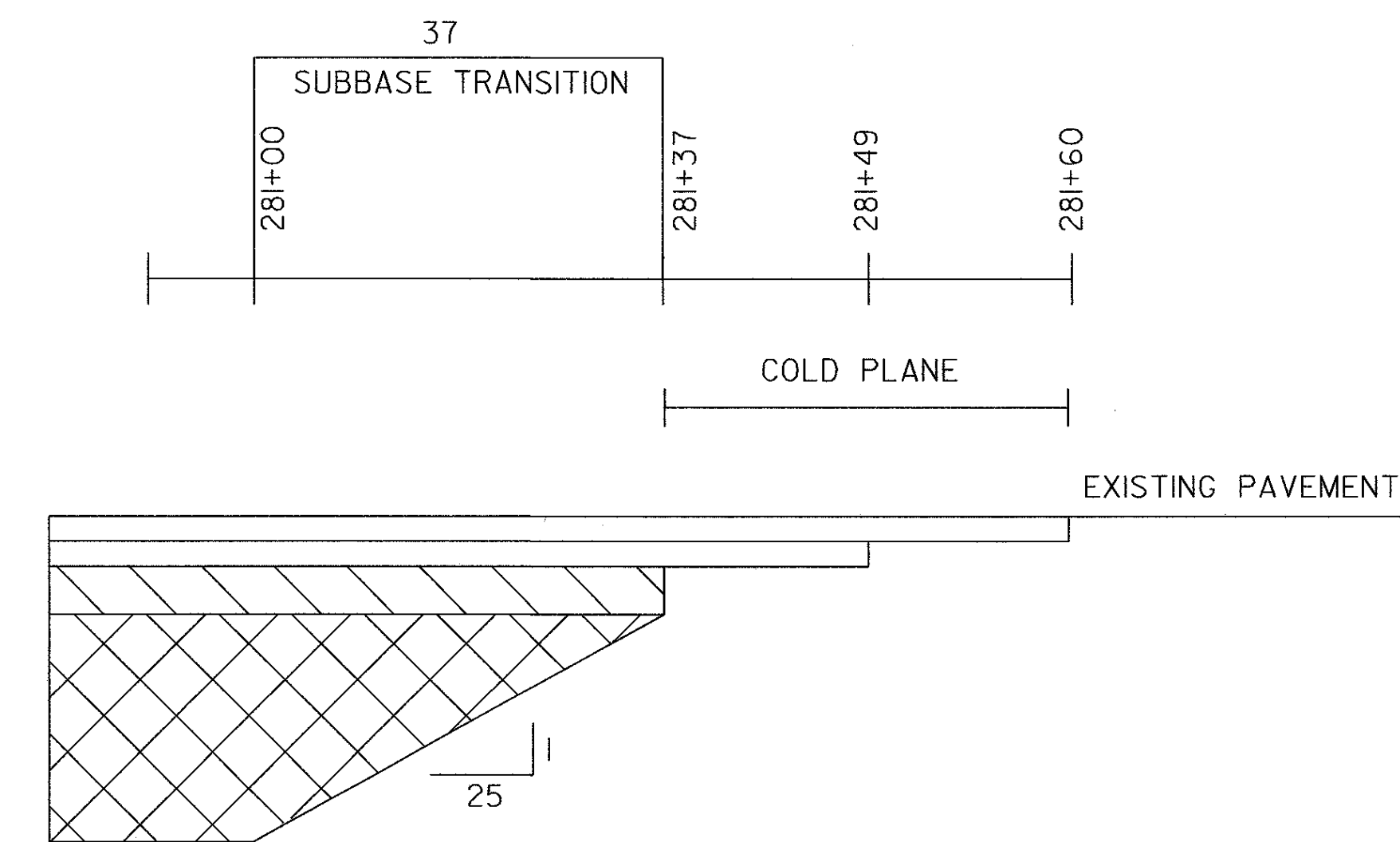
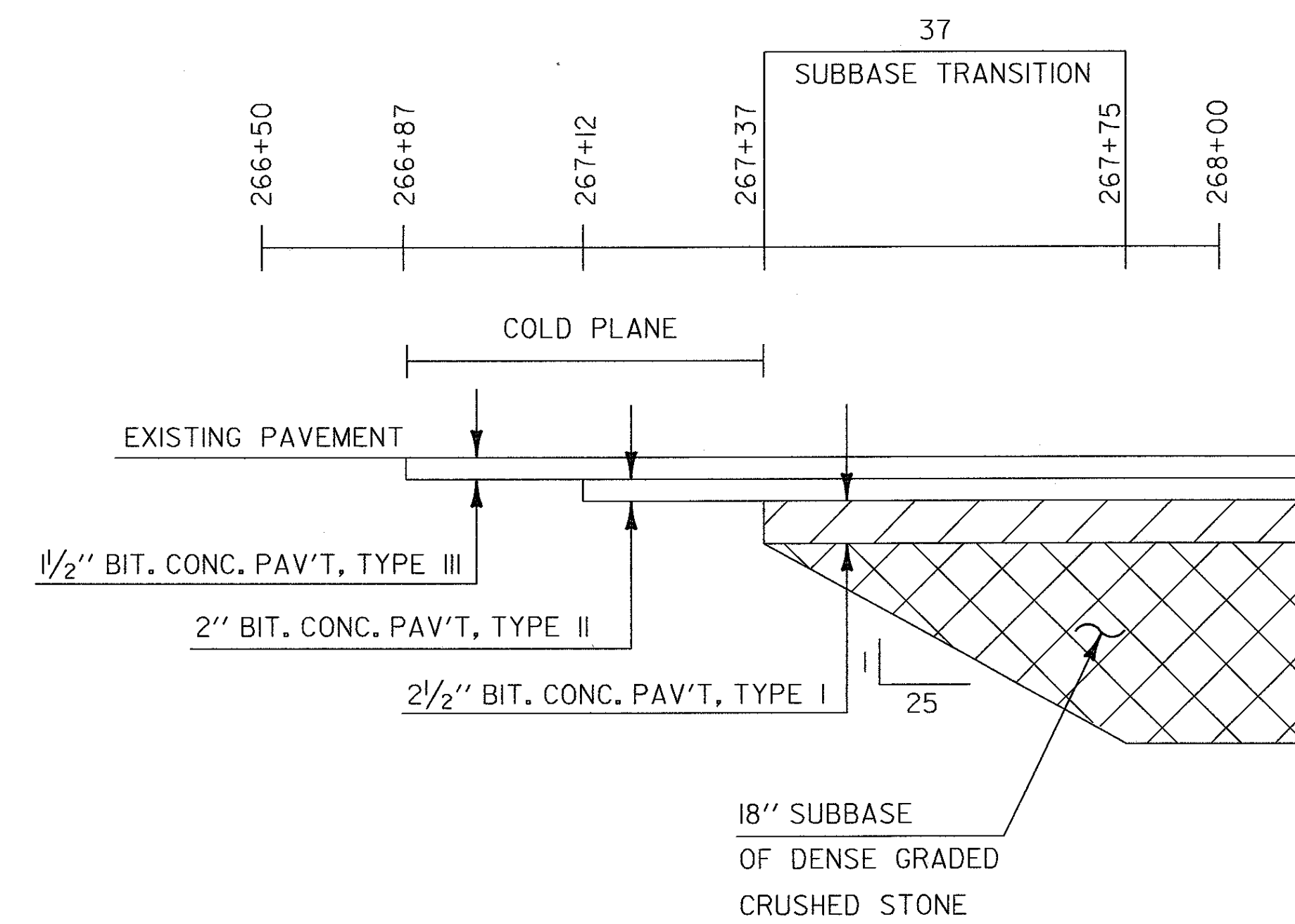


DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)



PROJECT NAME: SUDBURY
 PROJECT NUMBER: ST 0161(10)
 FILE NAME: /sqda/00c062/dc062wrk.dgn PLOT DATE: 19-DEC-2001
 PROJECT LEADER: AJB DRAWN BY: MEUNIER
 DESIGNED BY: MEUNIER CHECKED BY:
 dc062pr1.1 SHEET 20 OF 34

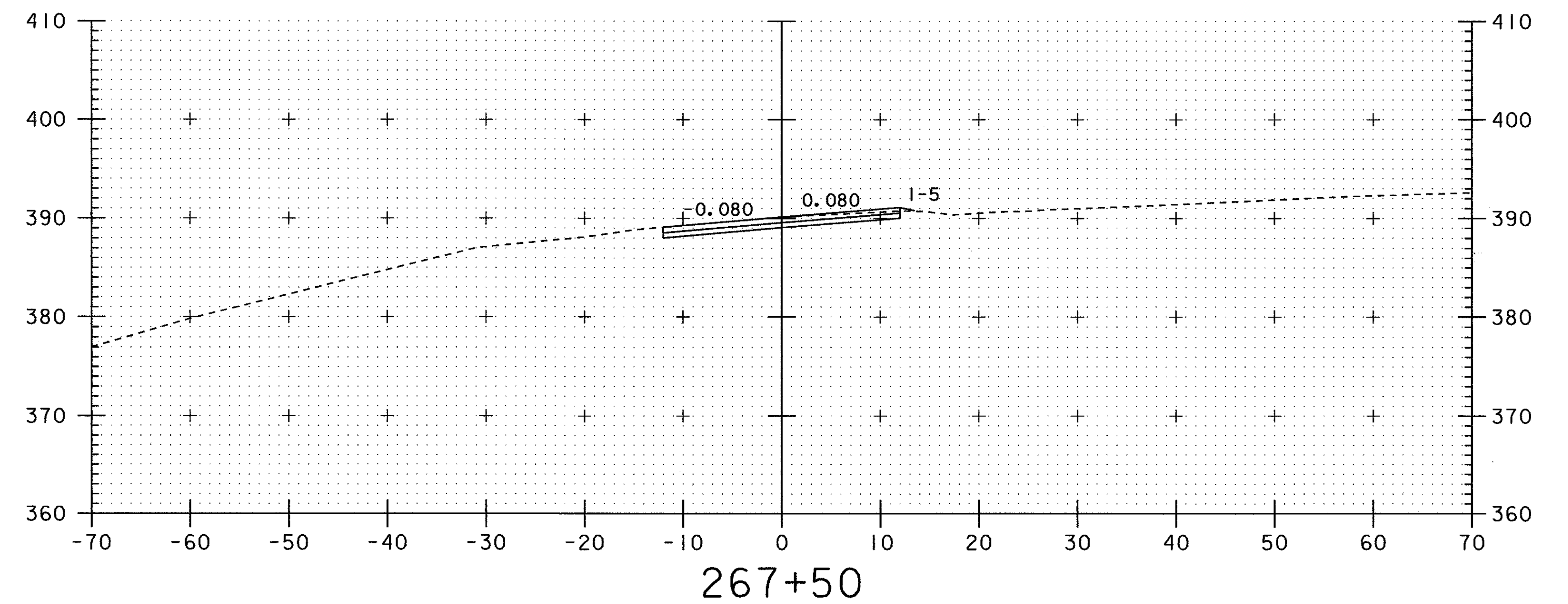
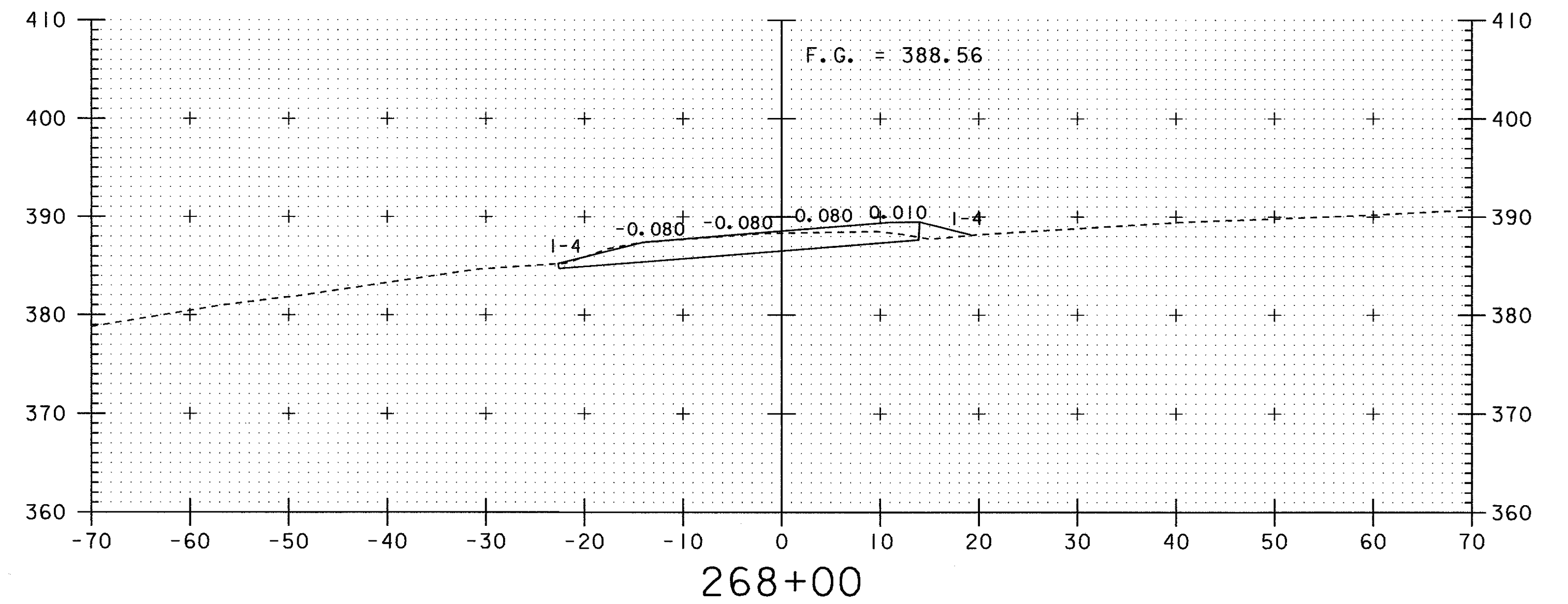
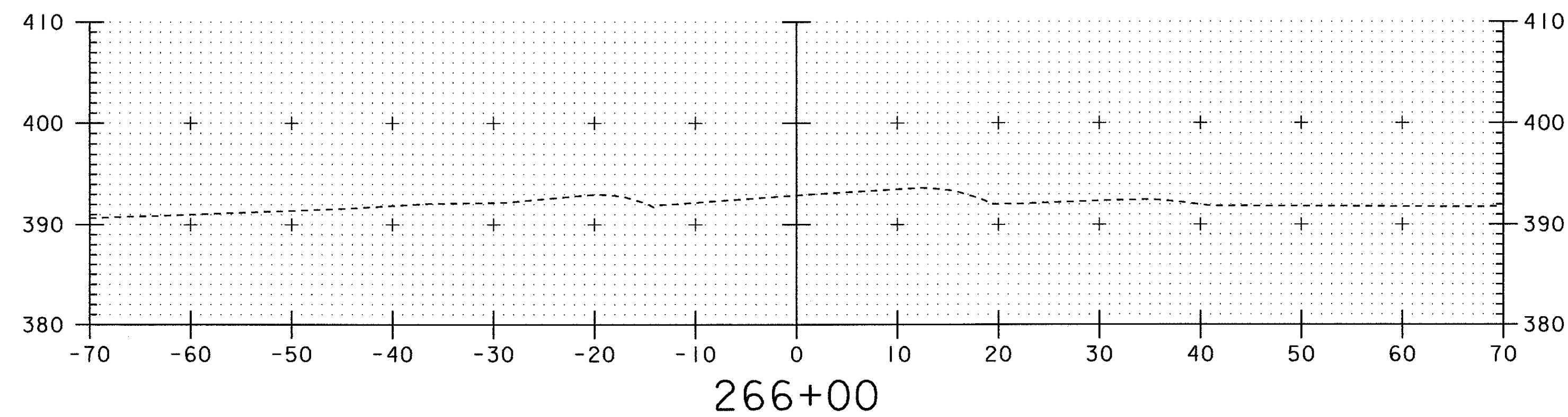
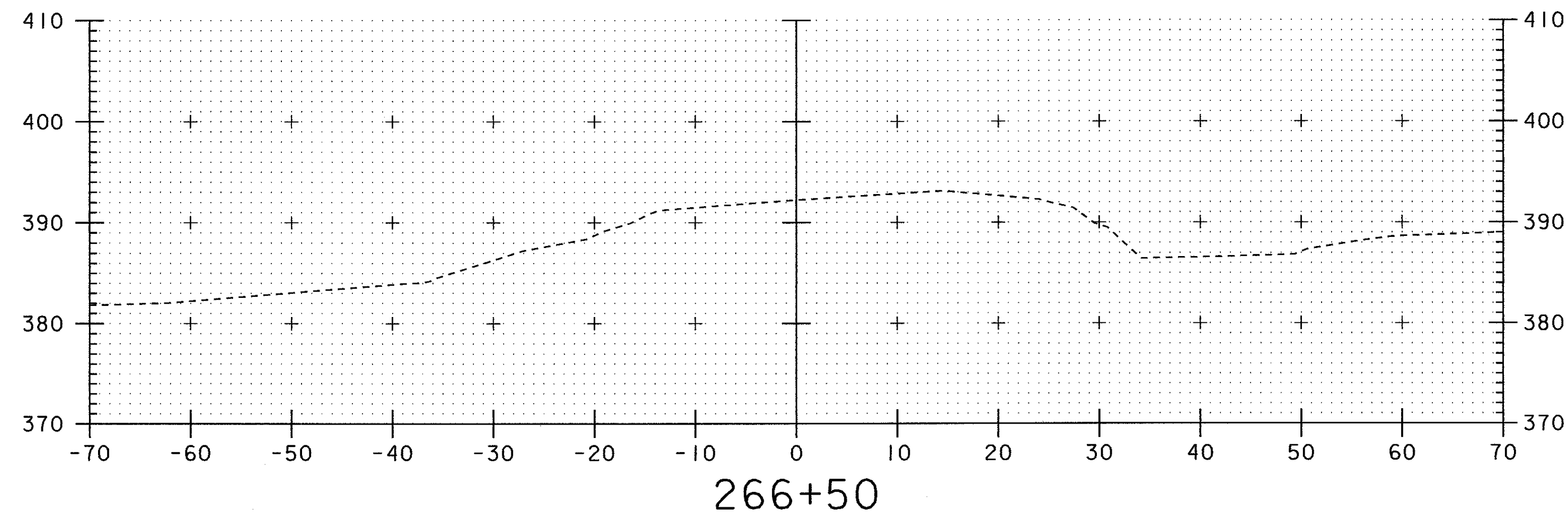
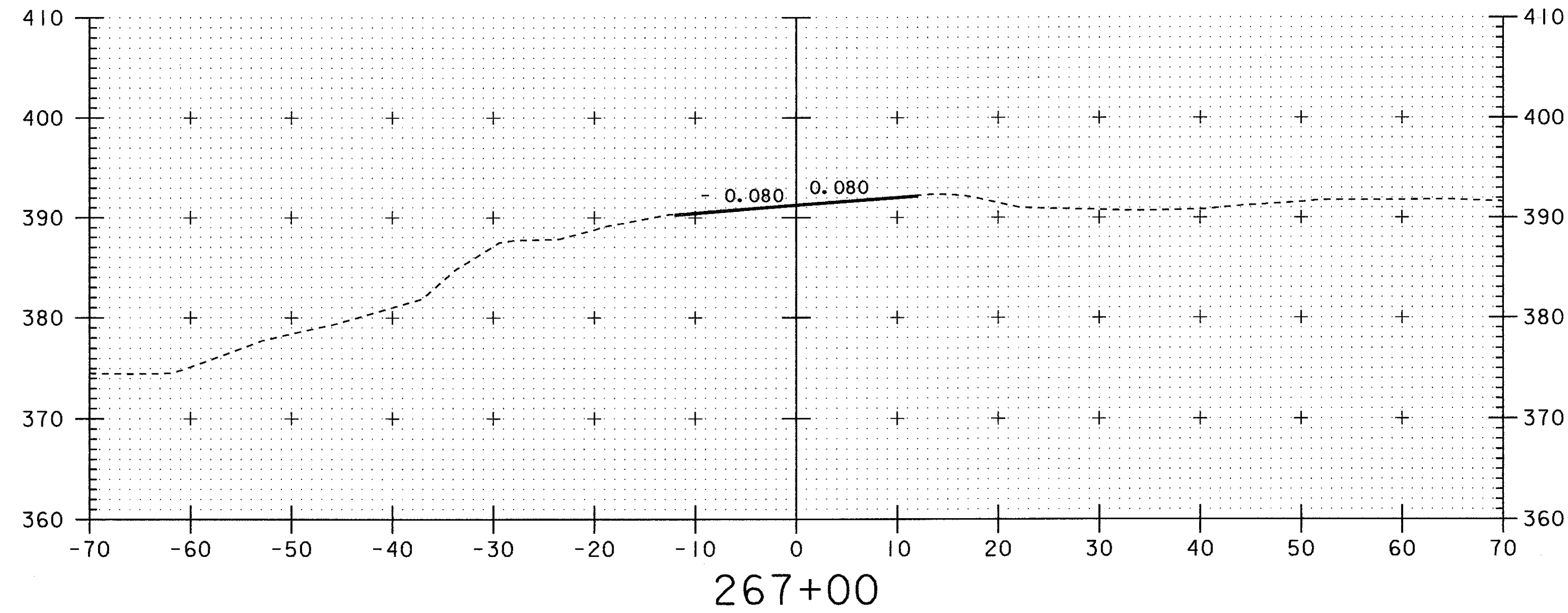
MATERIAL TRANSITION DIAGRAM



NOT TO SCALE

DATUM	
VERTICAL	_____
HORIZONTAL	_____

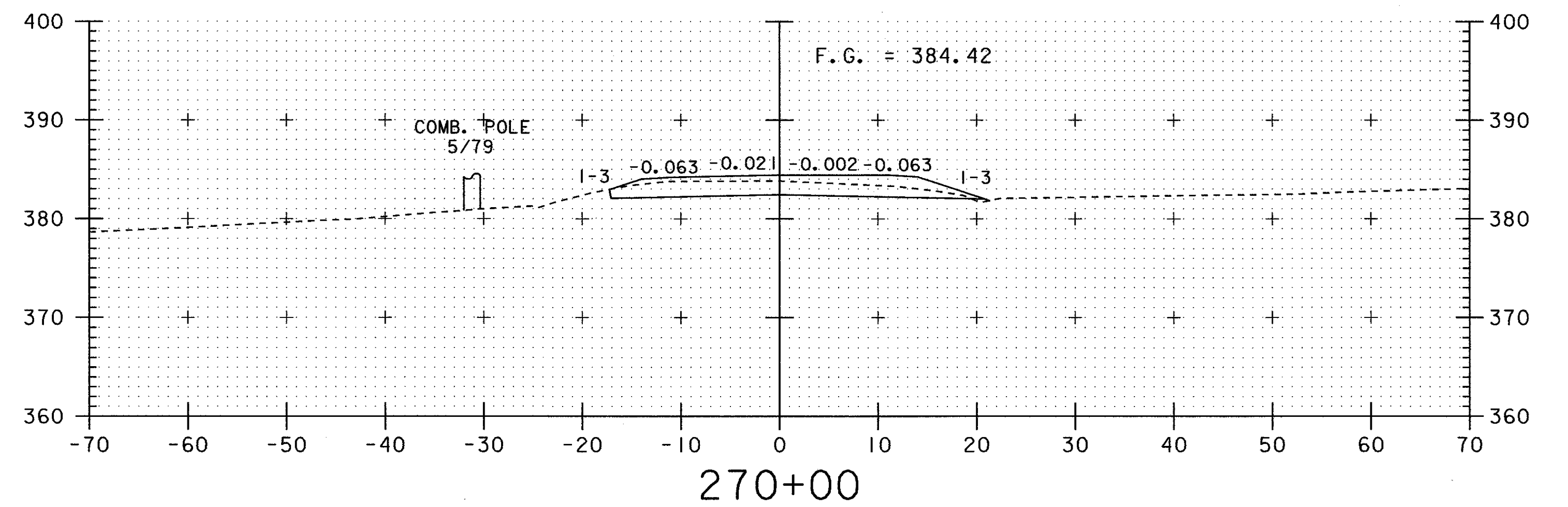
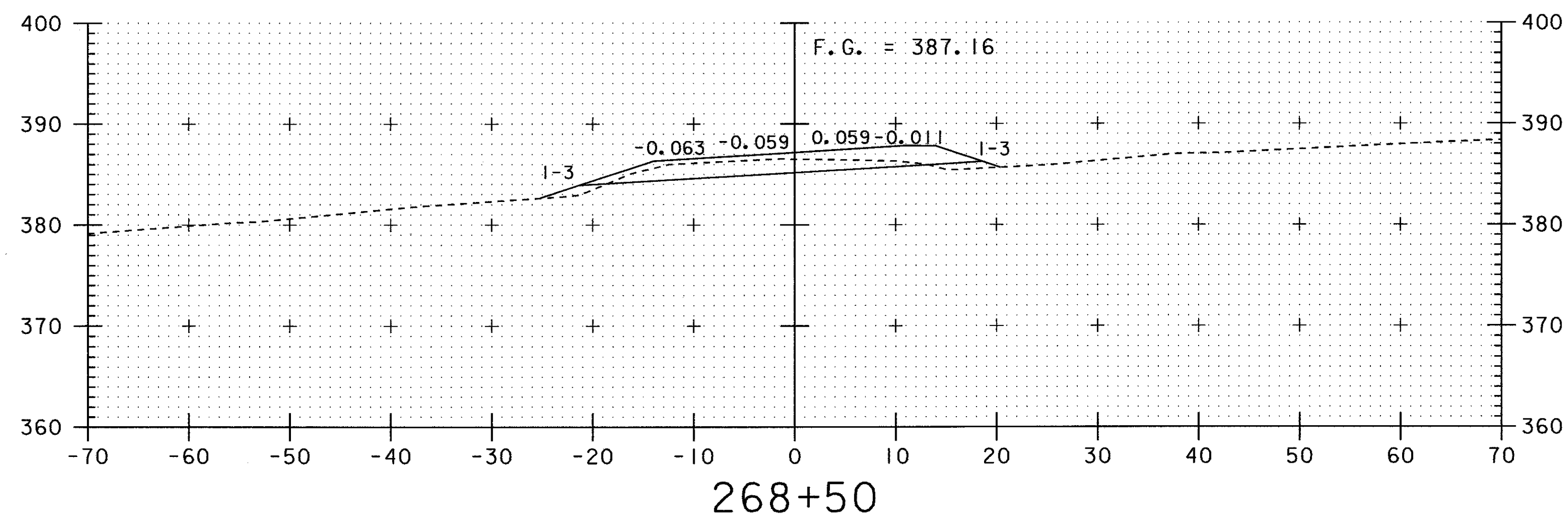
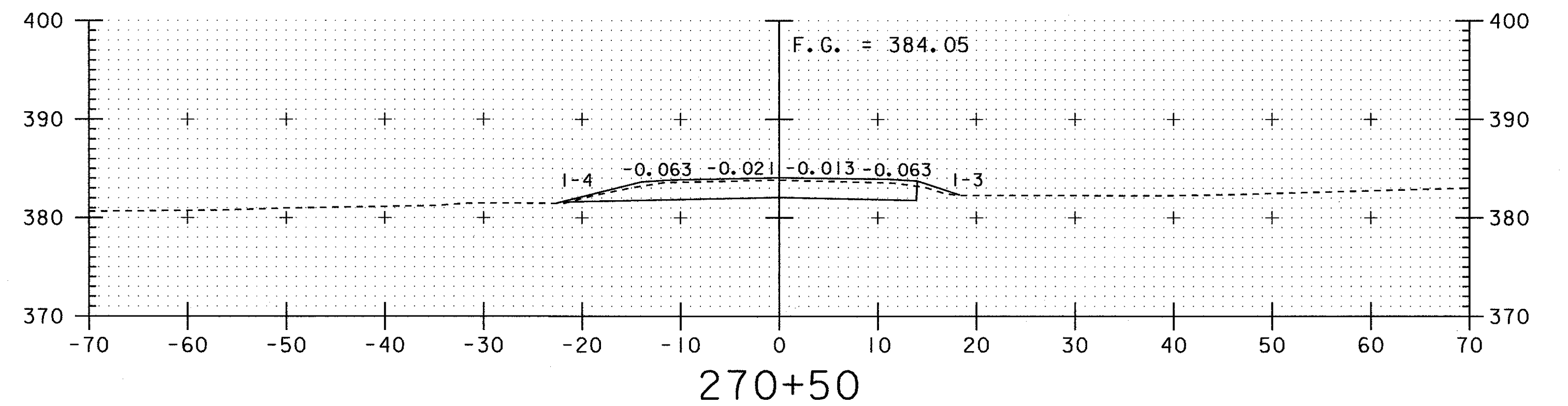
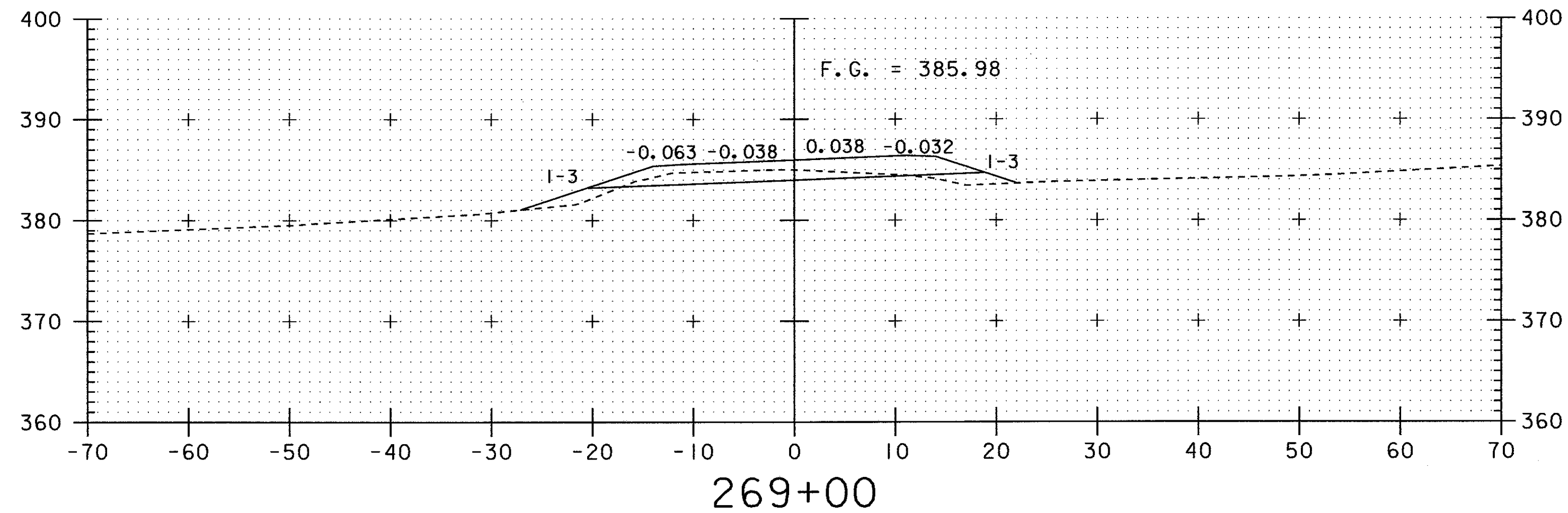
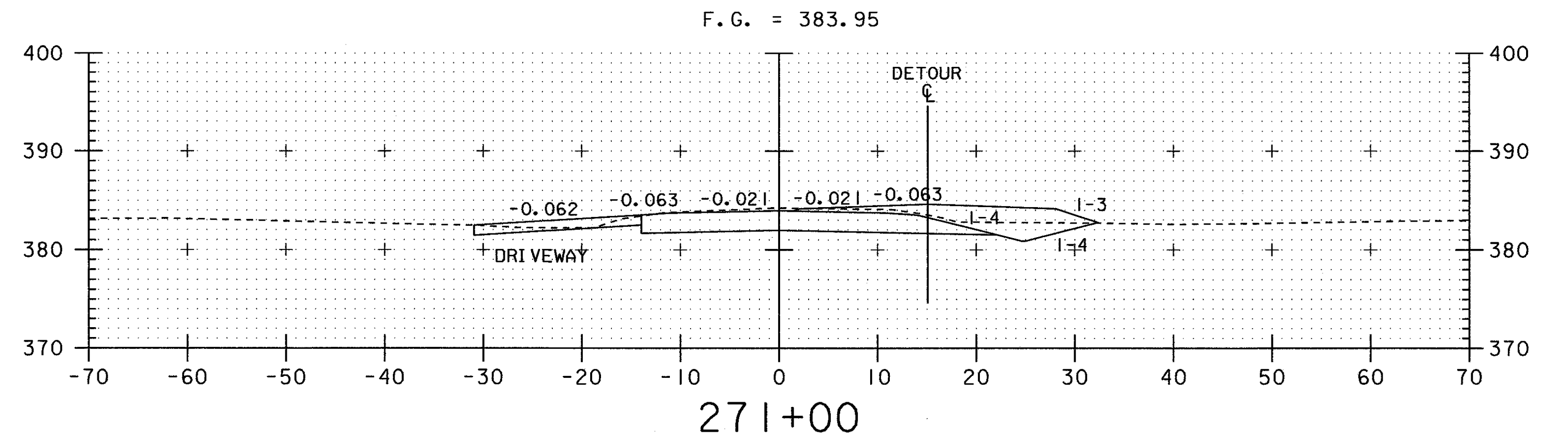
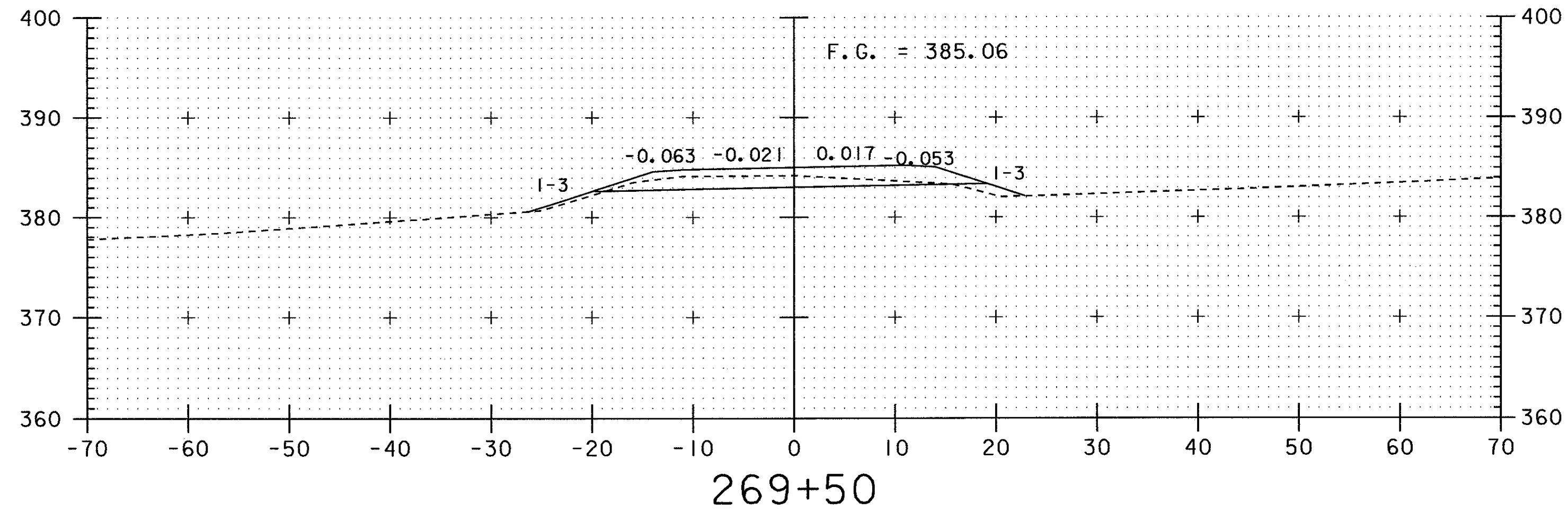
PROJECT NAME: SUDBURY	PLOT DATE: 19-DEC-2001
PROJECT NUMBER: ST 0161(10)	DRAWN BY: R. Kehne
FILE NAME: /sqda/00c62/dc062frm.dgn	CHECKED BY:
PROJECT LEADER: Kreis	SHEET 22 OF 34
DESIGNED BY:	
dc062mtd.l	



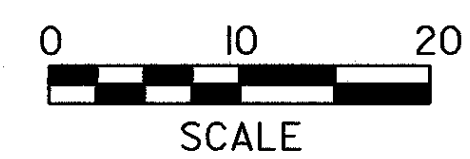
DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)



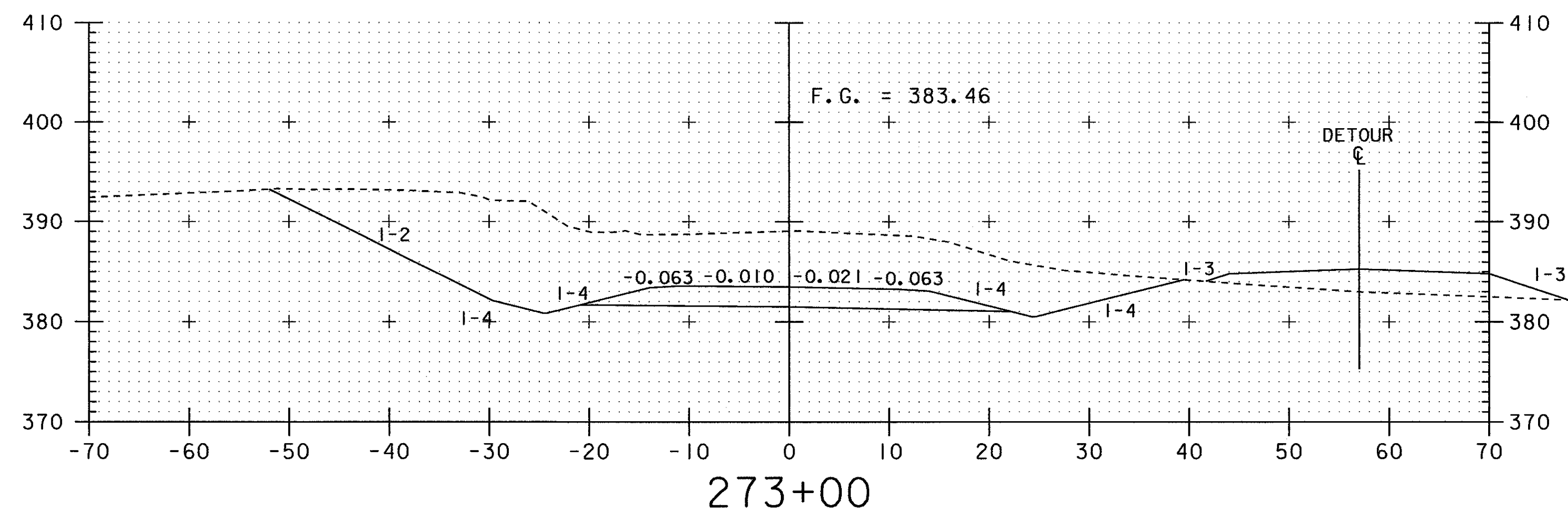
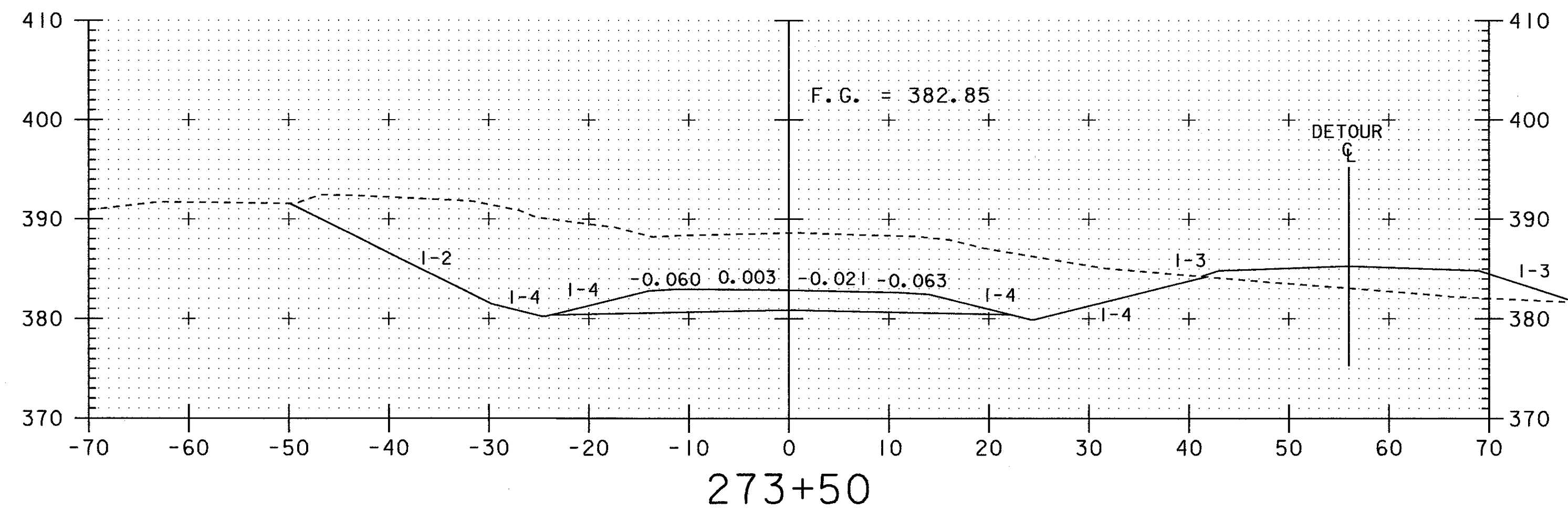
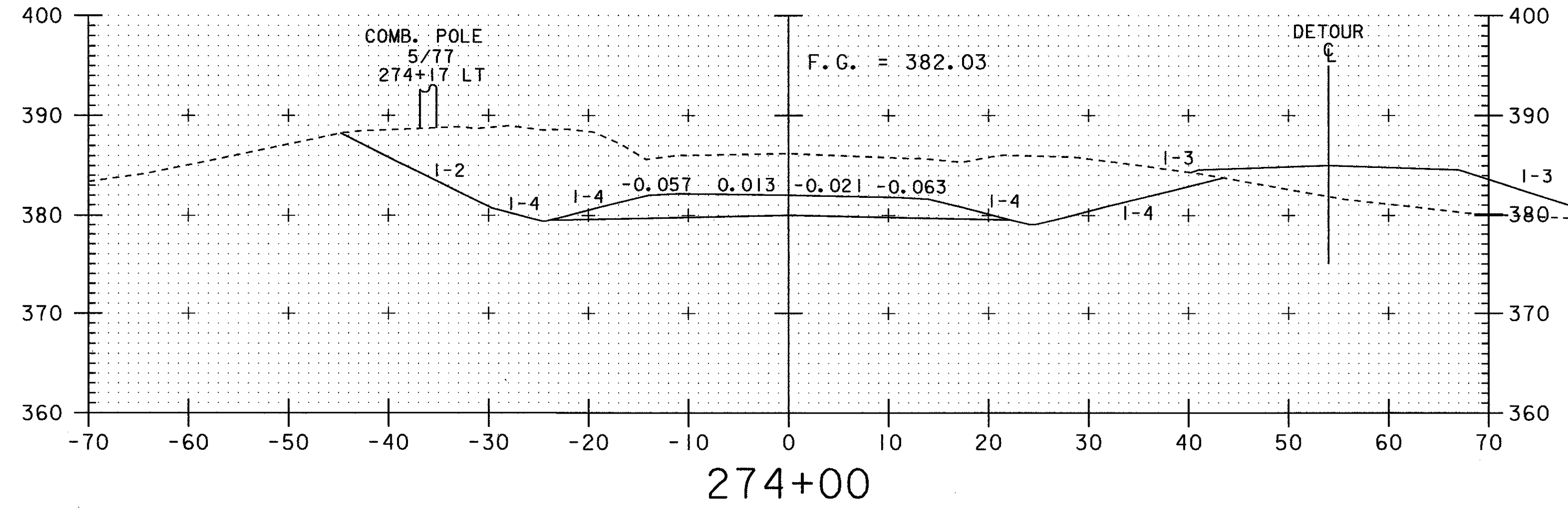
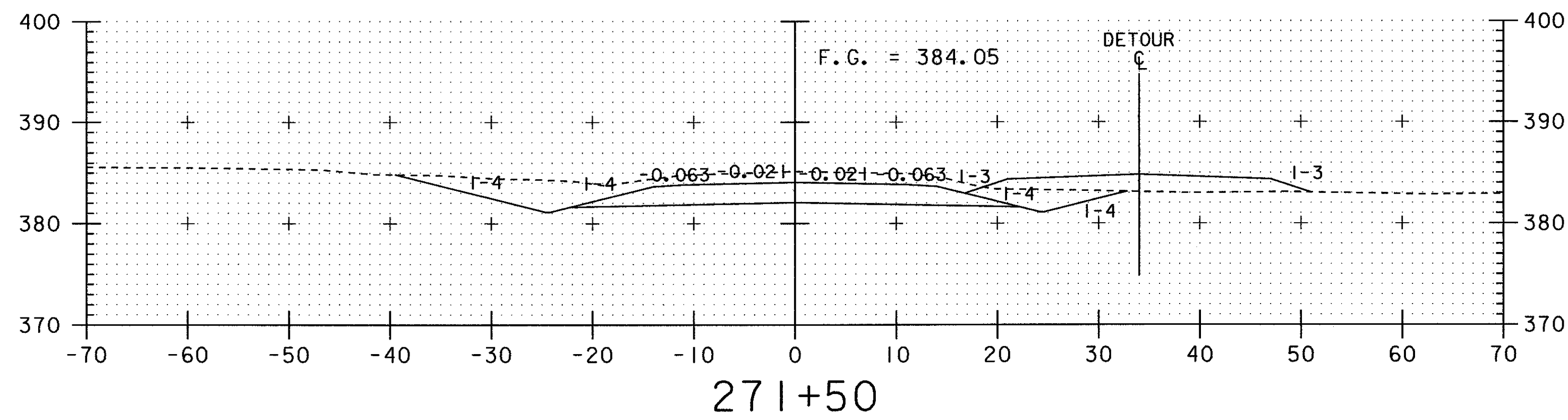
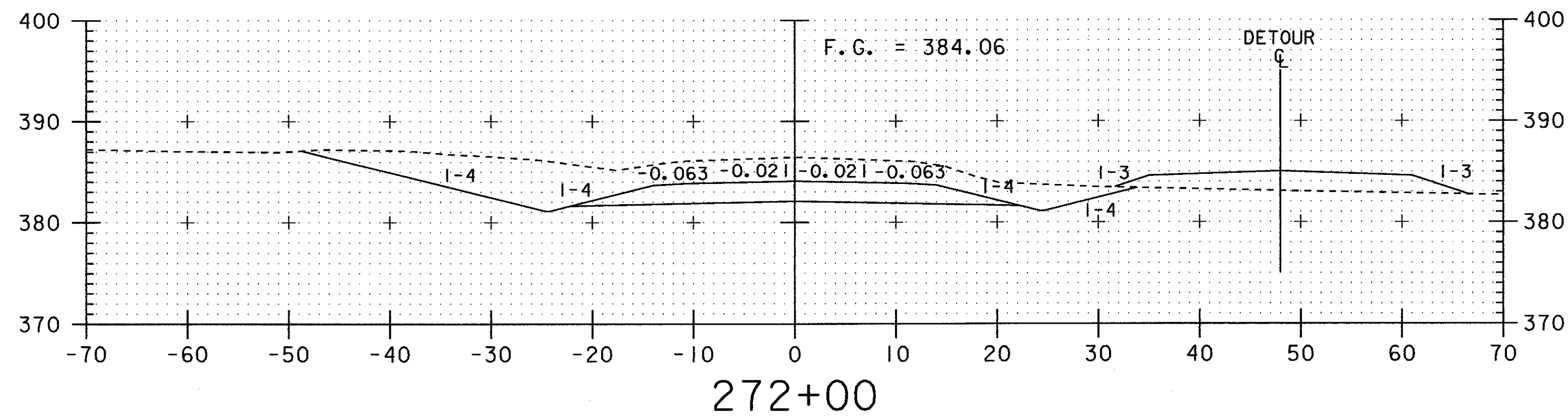
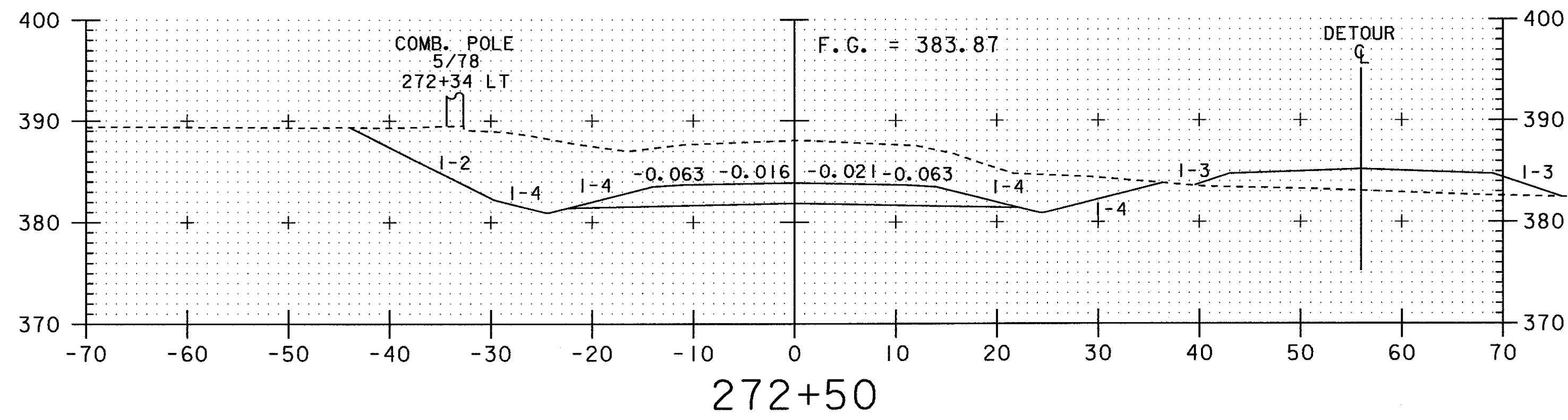
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 PROJECT NUMBER: ST 0161 (10)
 FILE NAME: /sqda/00c062/dc062xsl.dgn PLOT DATE: 19-DEC-2001
 PROJECT LEADER: BOMBARDIER DRAWN BY: MEUNIER
 DESIGNED BY: MEUNIER CHECKED BY:
 dc062x01.l SHEET 28 OF 34



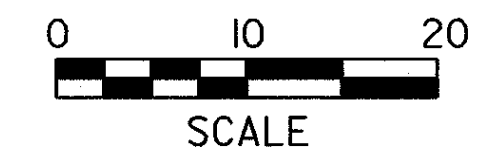
DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)



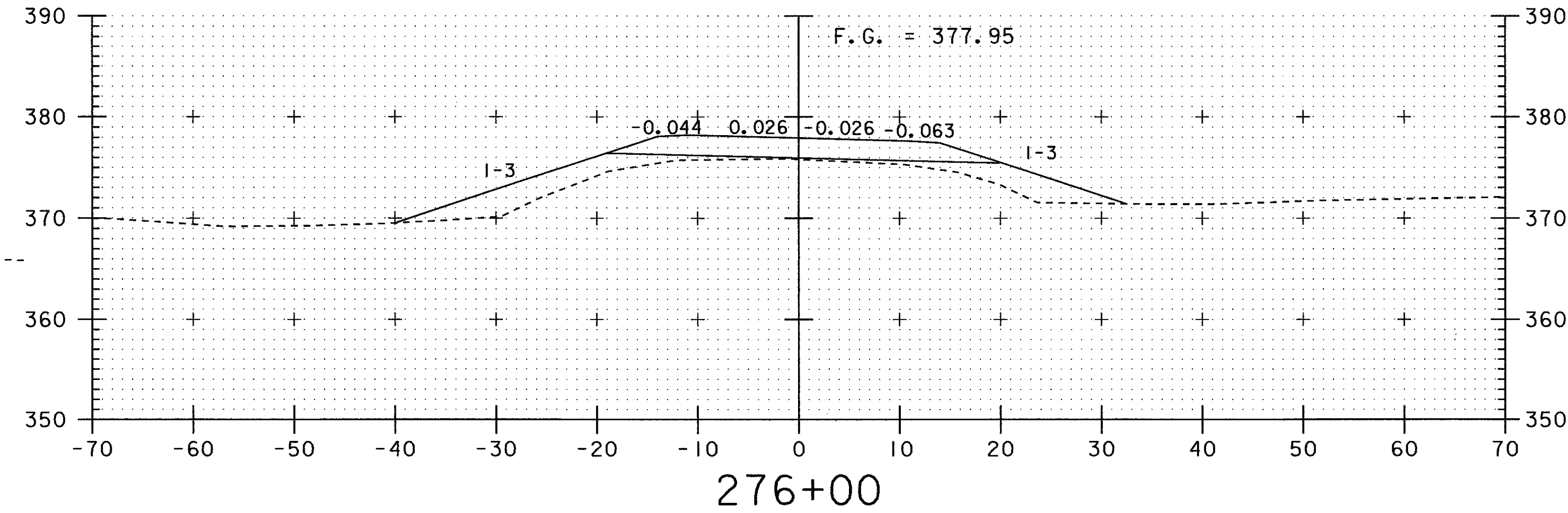
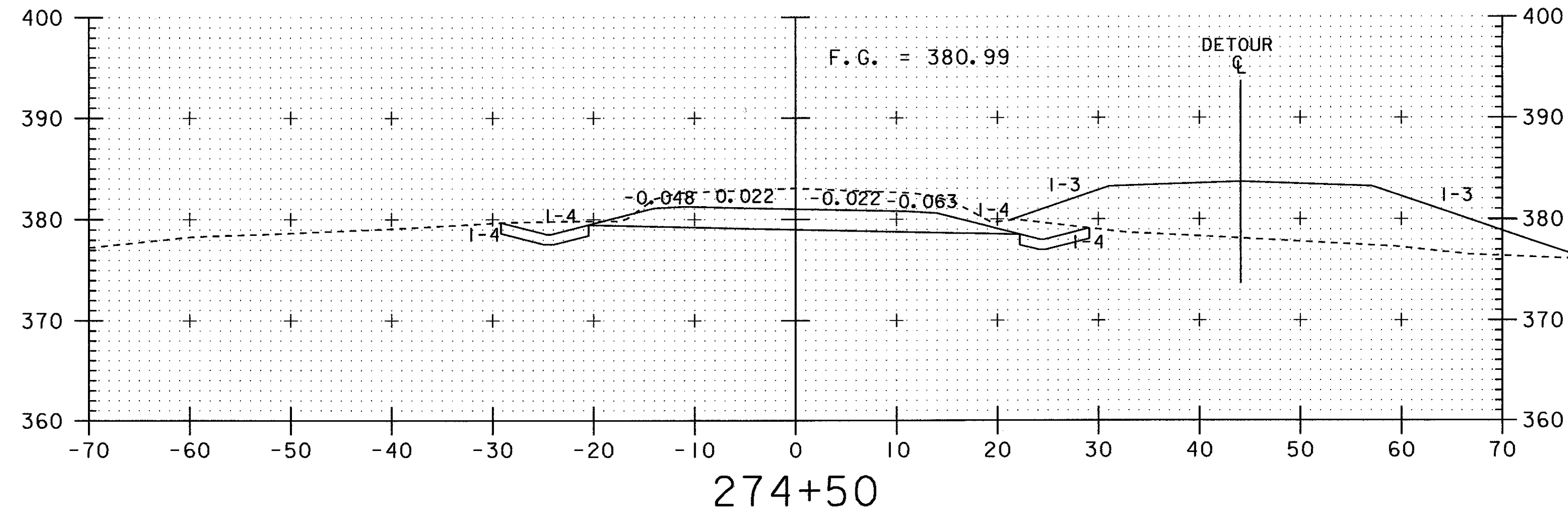
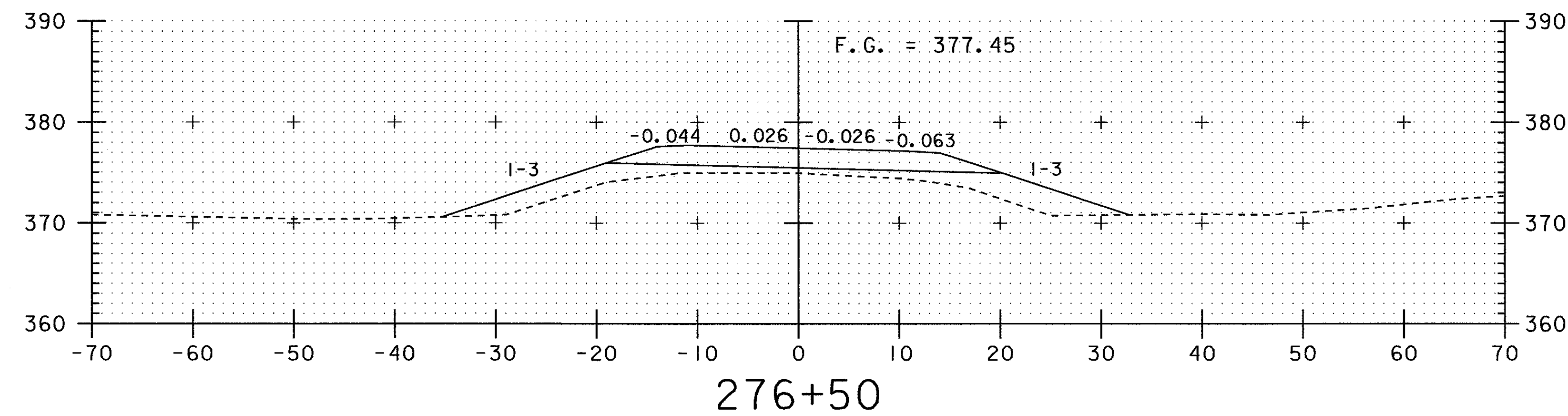
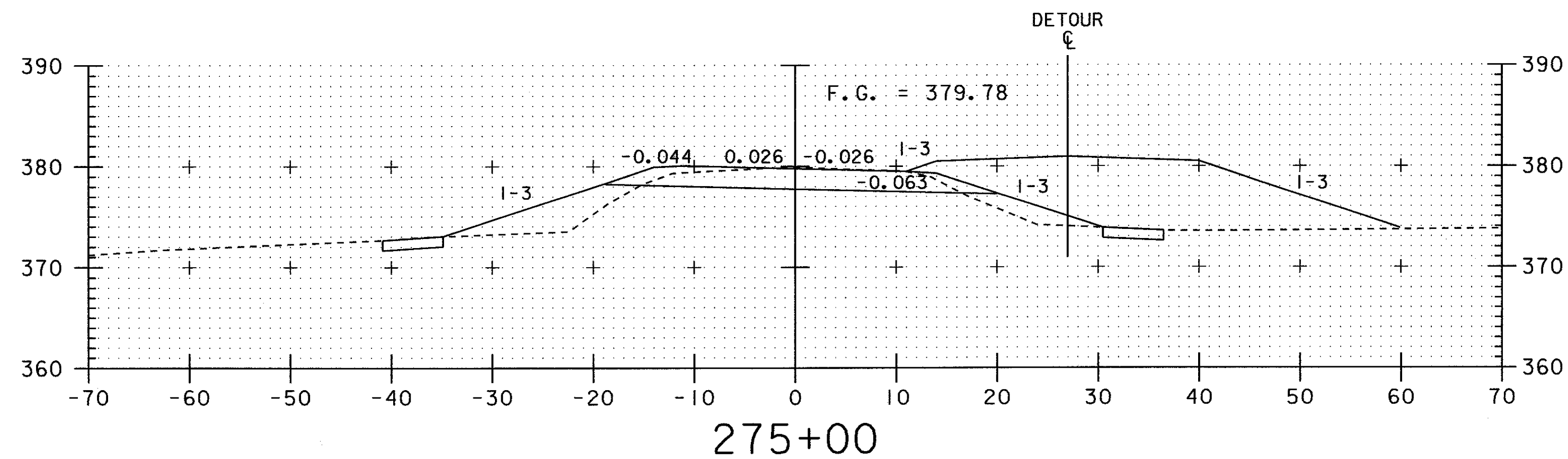
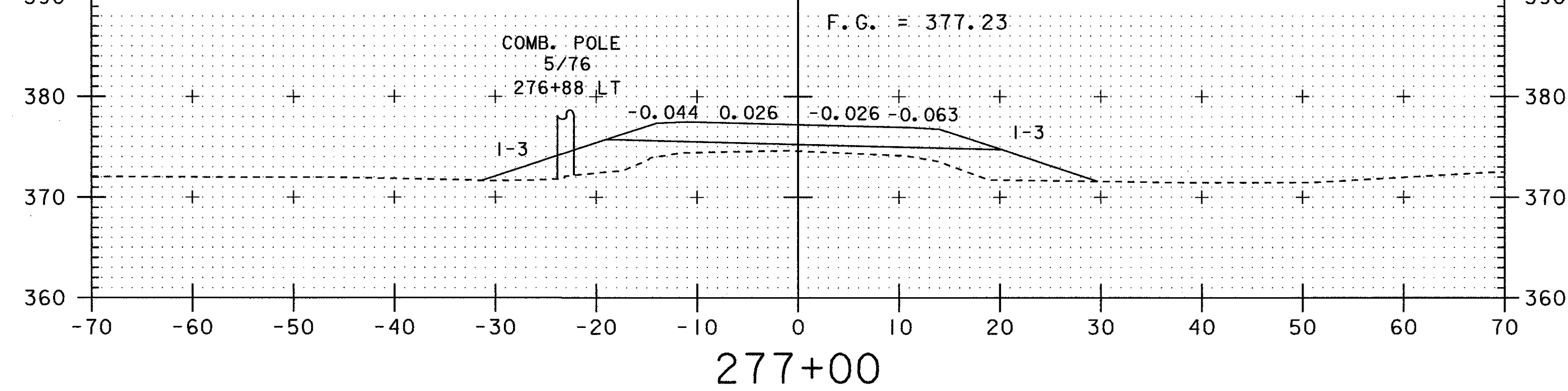
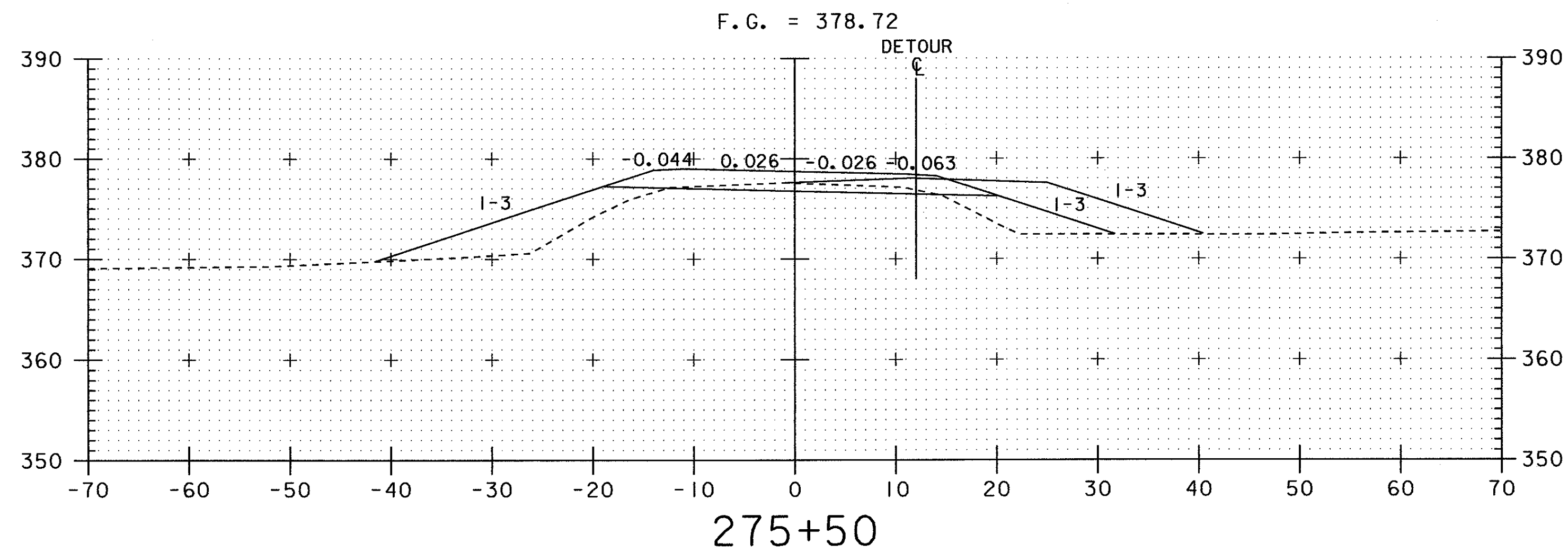
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 PROJECT NUMBER: ST 0161(10)
 FILE NAME: /sqda/00c062/dc062xsl.dgn
 PROJECT LEADER: BOMBARDIER
 DESIGNED BY: MEUNIER
 dc062x02.1
 PLOT DATE: 19-DEC-2001
 DRAWN BY: MEUNIER
 CHECKED BY:
 SHEET 29 OF 34



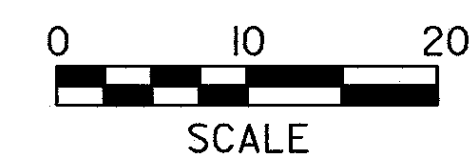
DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)



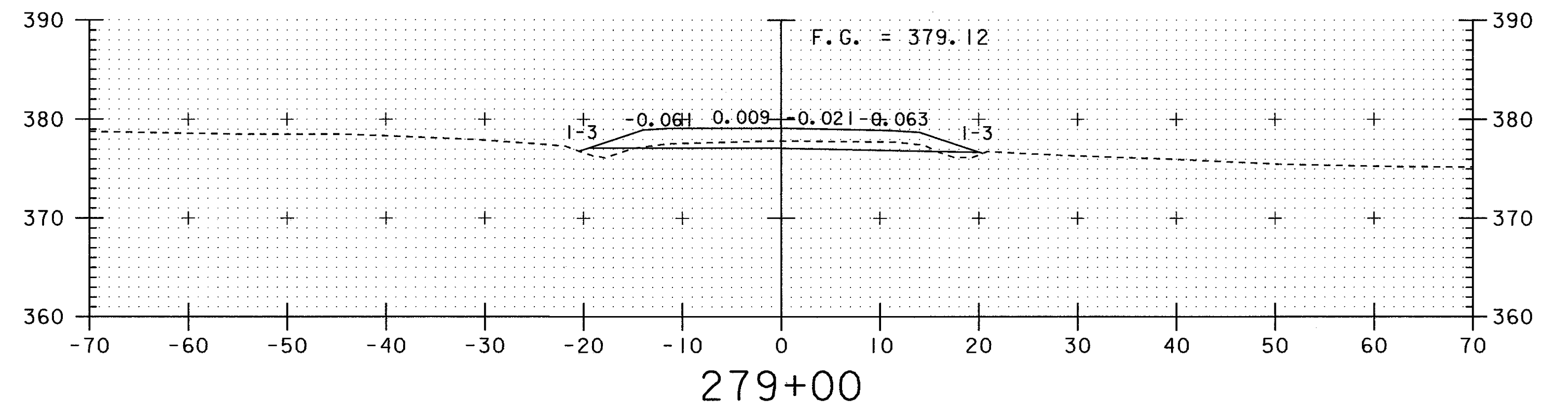
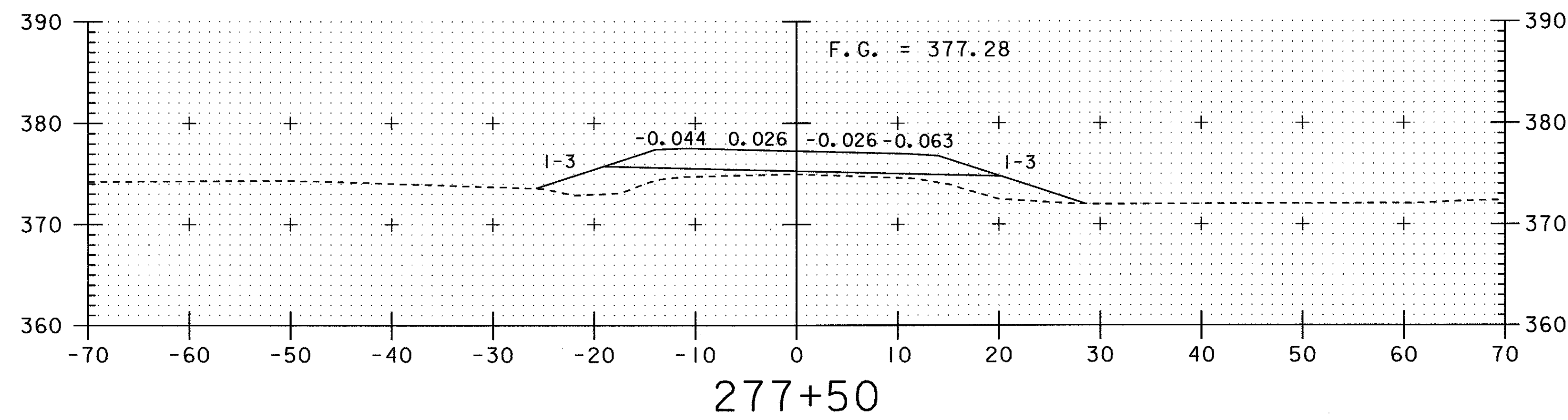
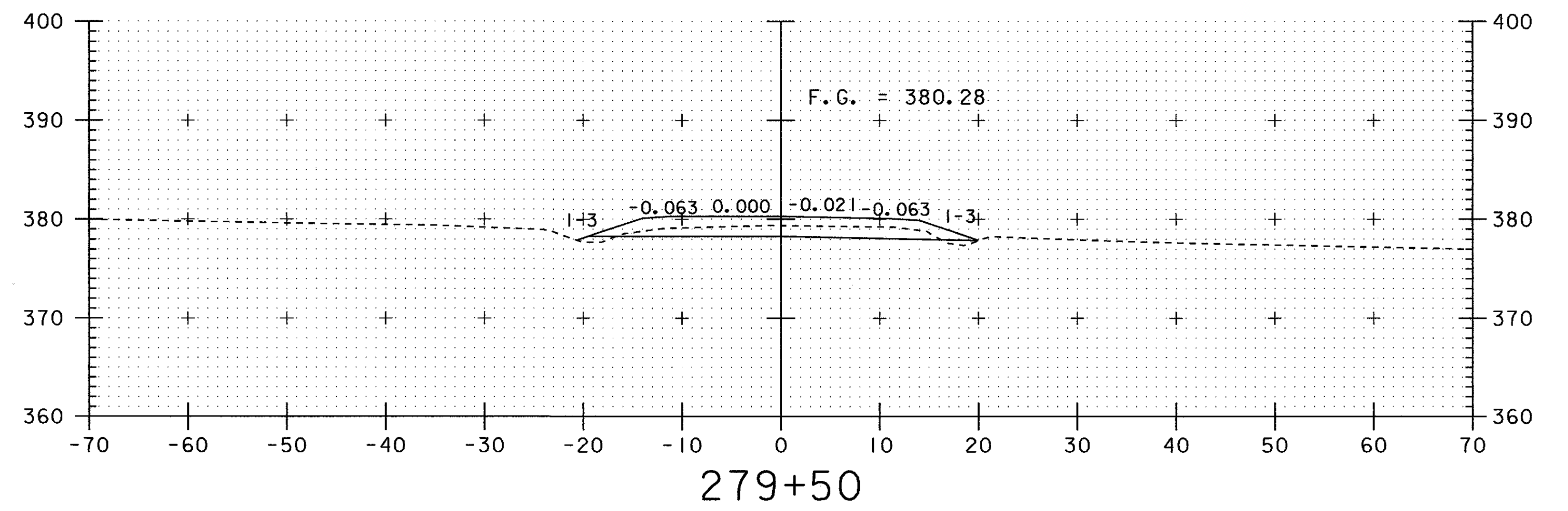
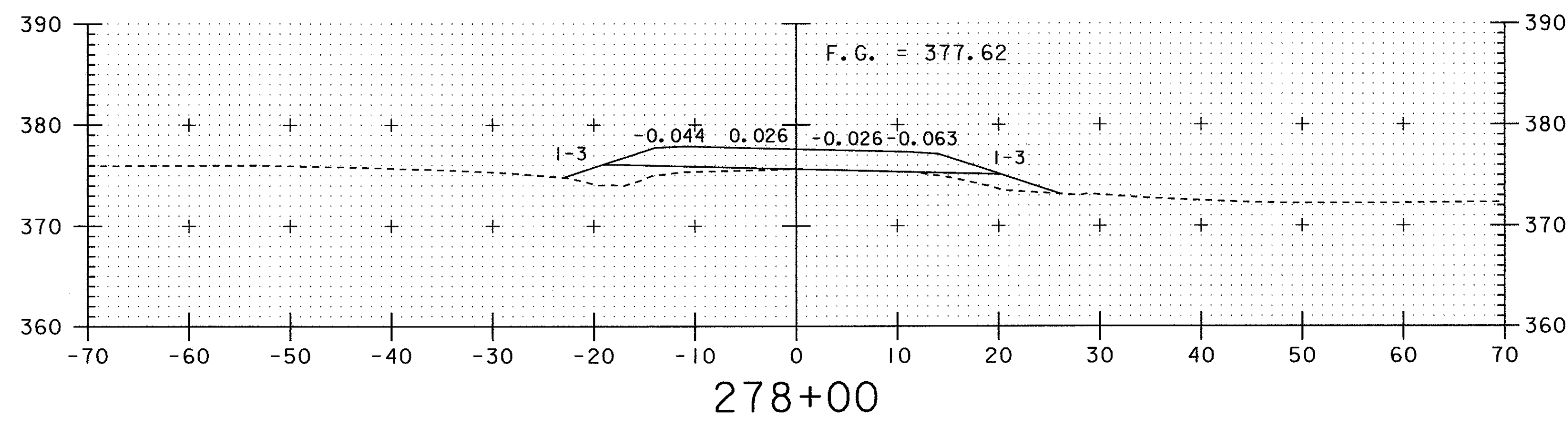
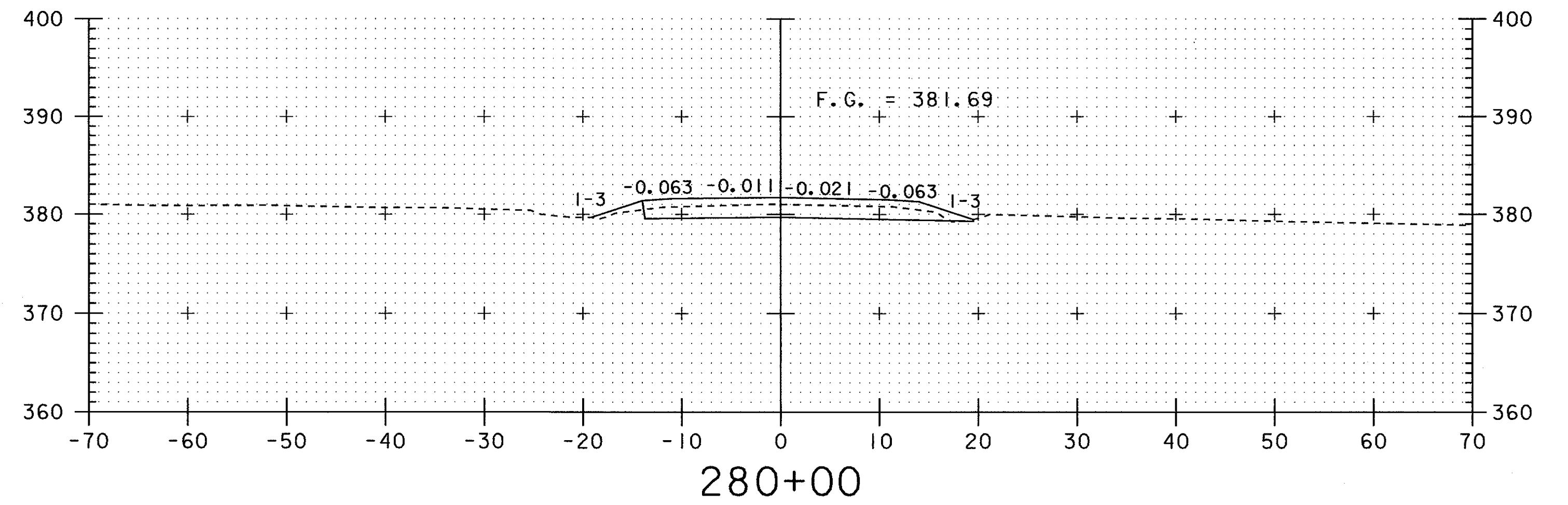
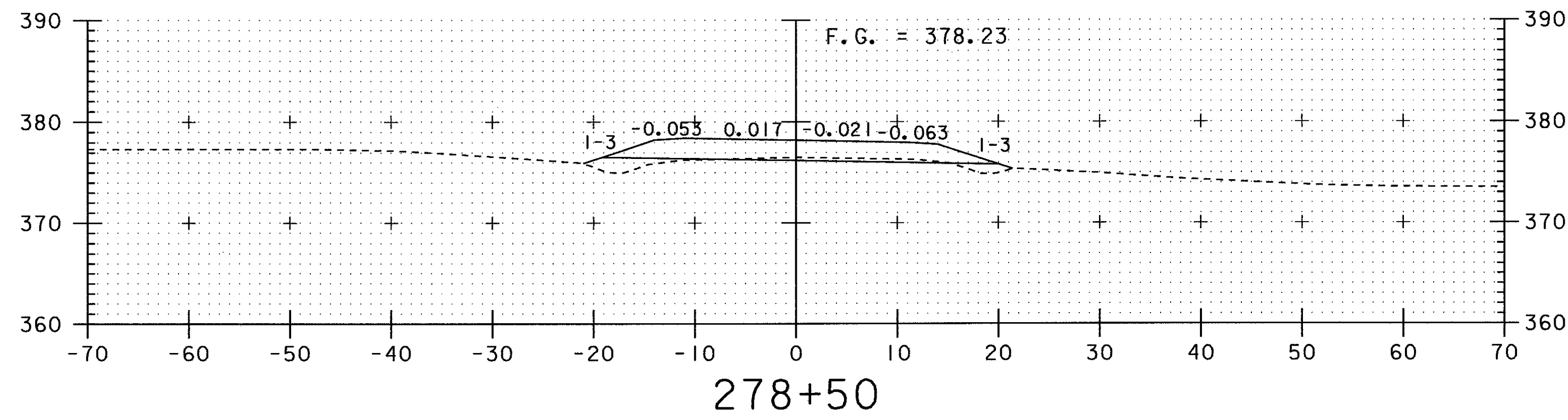
PROJECT NAME: SUDBURY
 PROJECT NUMBER: ST 0161(10)
 FILE NAME: /sqda/00c062/dc062xsl.dgn
 PROJECT LEADER: BOMBARDIER
 DESIGNED BY: MEUNIER
 dc062x03.1
 PLOT DATE: 19-DEC-2001
 DRAWN BY: MEUNIER
 CHECKED BY:
 SHEET 30 OF 34



DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (92)



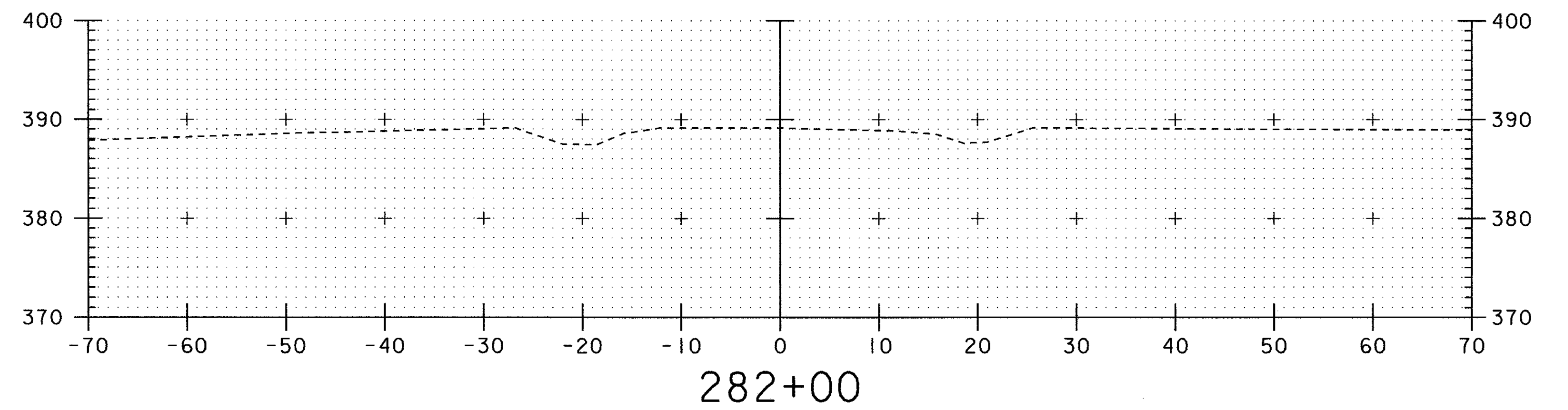
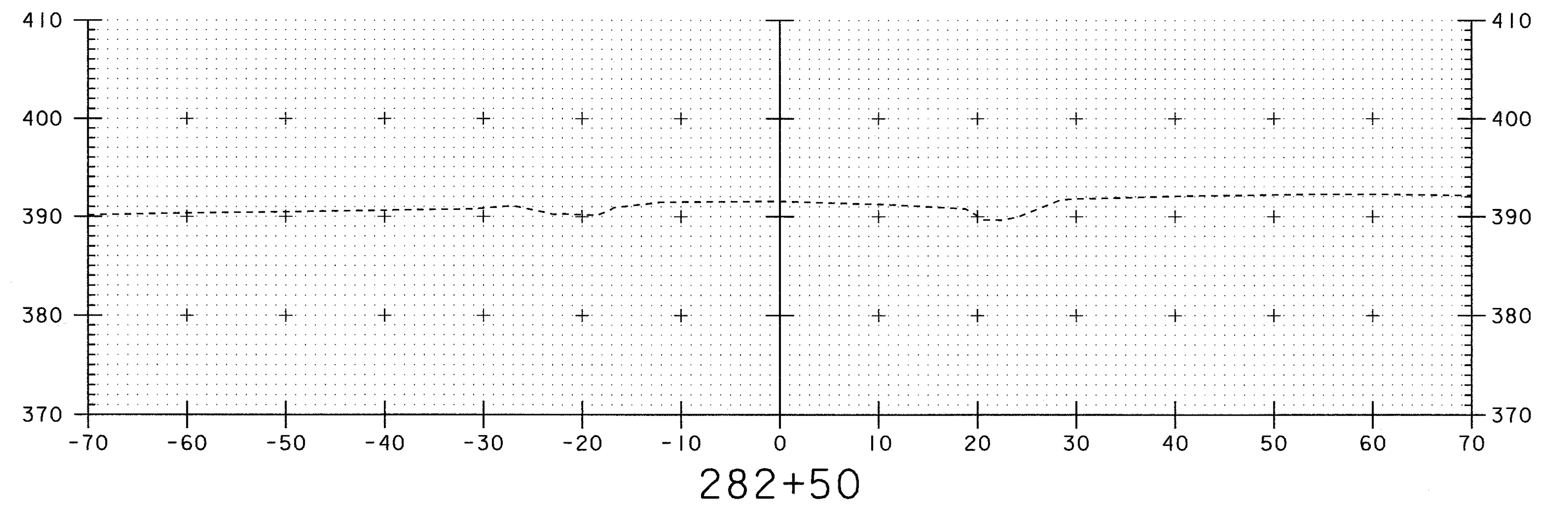
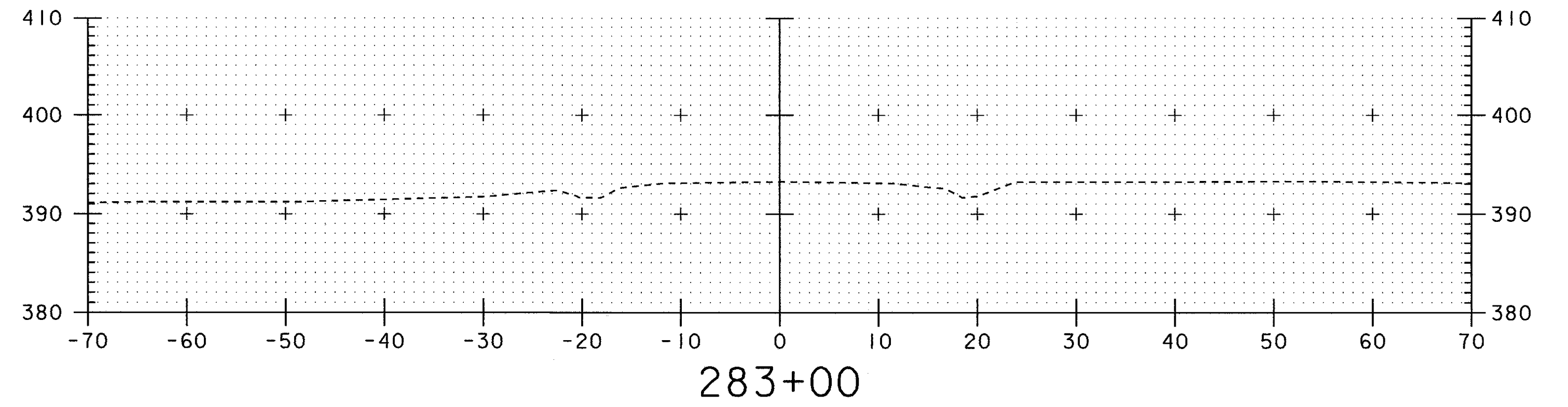
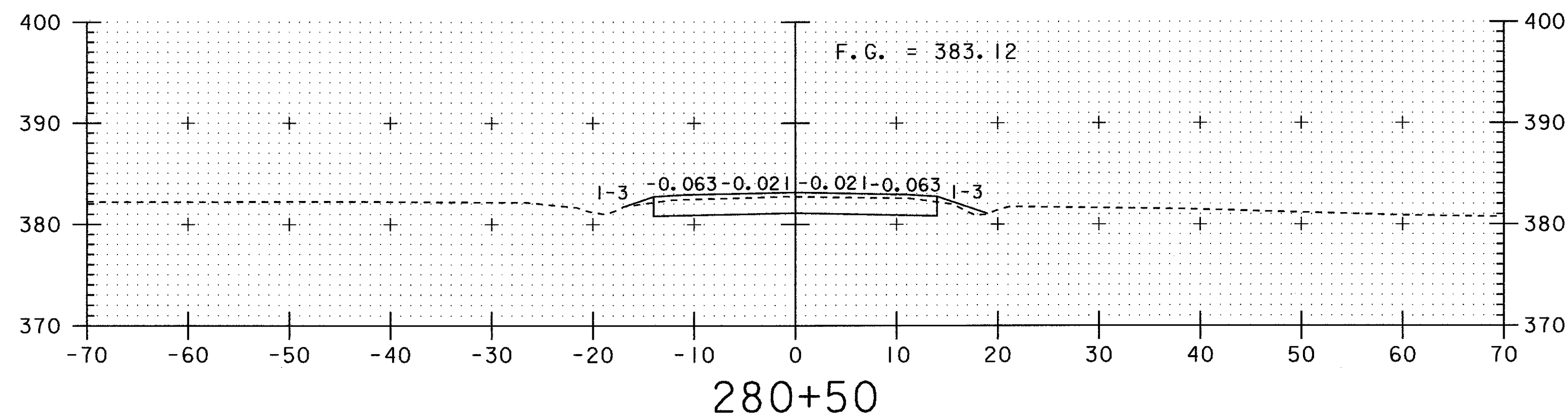
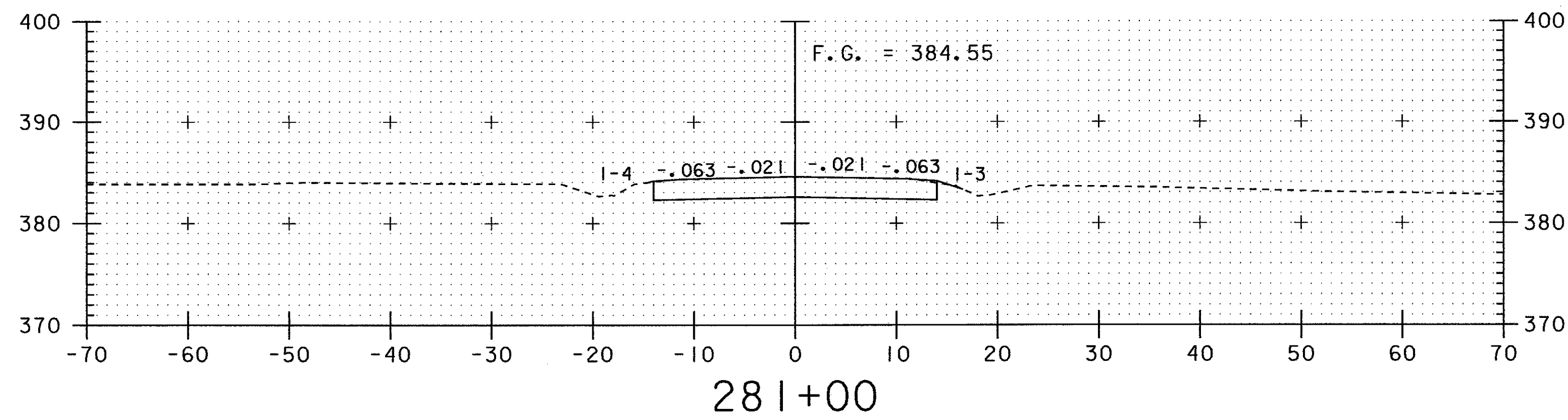
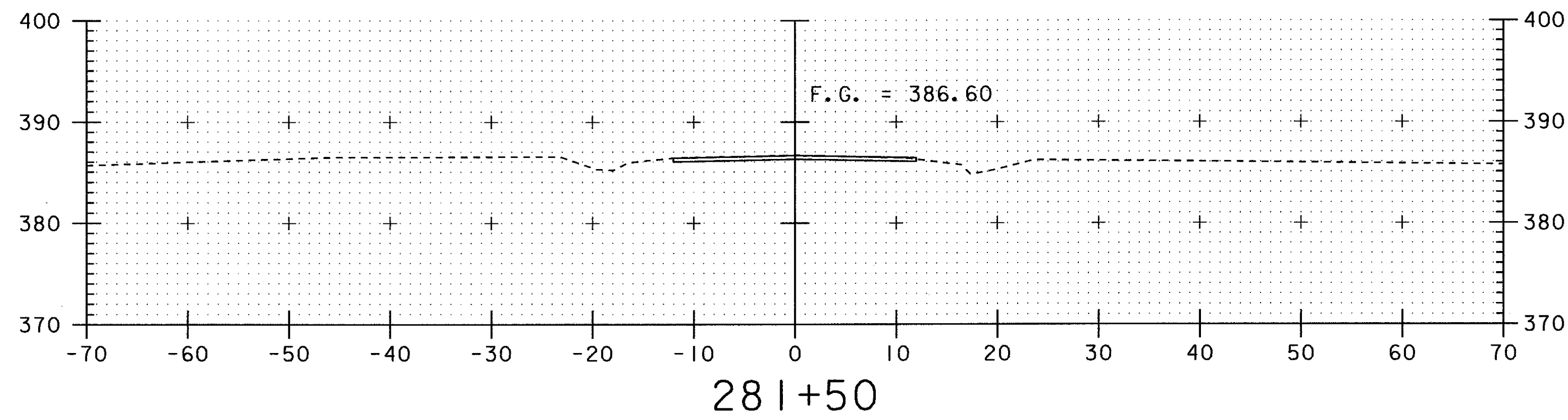
PROJECT NAME:	SUDBURY	PLOT DATE:	19-DEC-2001
PROJECT NUMBER:	ST 0161(10)	DRAWN BY:	MEUNIER
FILE NAME:	/sqda/00c062/dc062xsl.dgn	CHECKED BY:	
PROJECT LEADER:	BOMBARDIER	SHEET 31	OF 34
DESIGNED BY:	MEUNIER		
dc062x04.1			



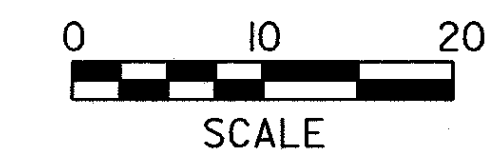
DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)



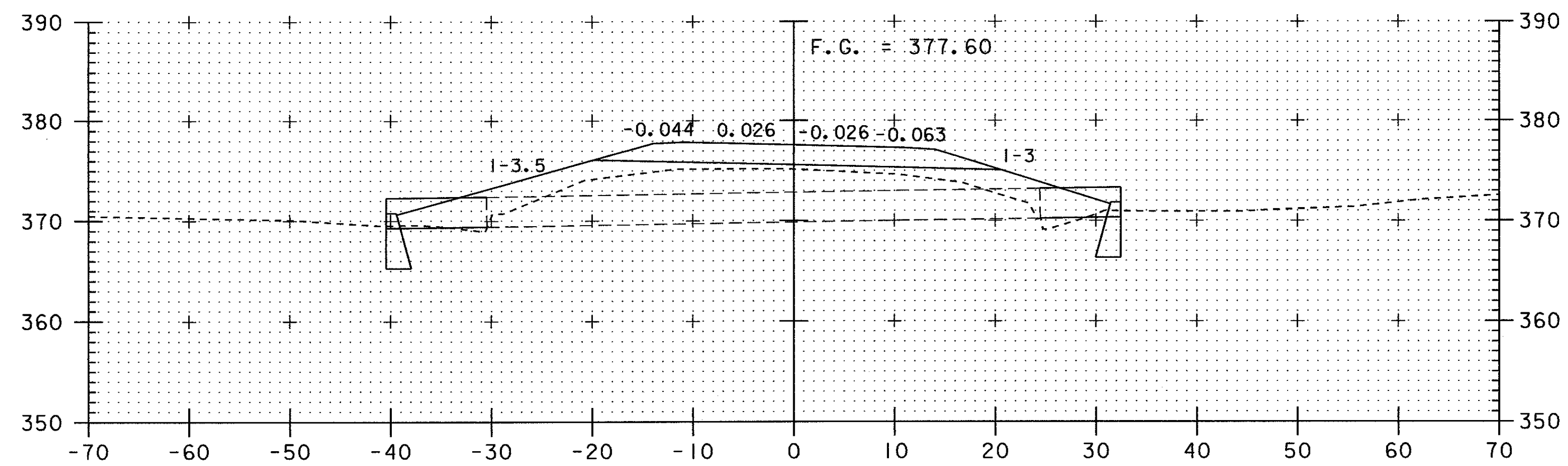
PROJECT NAME: SUDBURY
 PROJECT NUMBER: ST 0161(10)
 FILE NAME: /sqda/00c062/dc062xsl.dgn
 PROJECT LEADER: BOMBARDIER
 DESIGNED BY: MEUNIER
 dc062x05.1
 PLOT DATE: 19-DEC-2001
 DRAWN BY: MEUNIER
 CHECKED BY:
 SHEET 32 OF 34



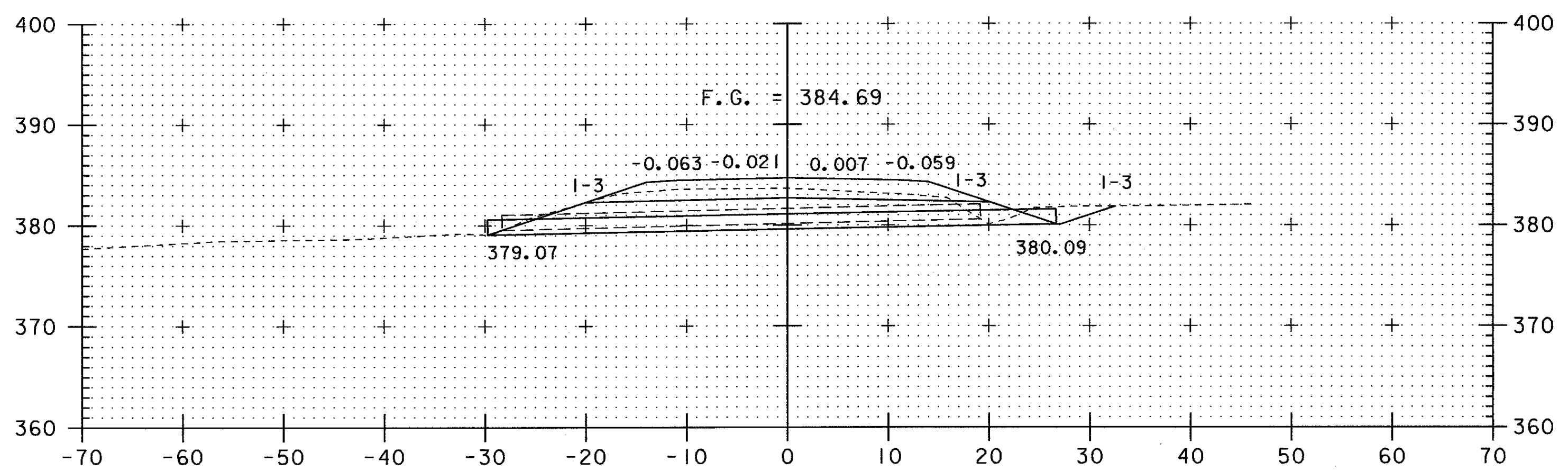
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (92)



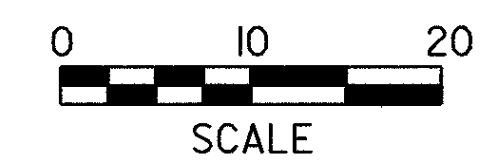
PROJECT NAME:	SUDBURY	PROJECT NUMBER:	ST 0161(10)
FILE NAME:	/sqda/00c062/dc062xsl.dgn	DESIGNED BY:	MEUNIER
PROJECT LEADER:	BOMBARDIER	CHECKED BY:	
DESIGNED BY:	MEUNIER	PLOT DATE:	19-DEC-2001
		CHECKED BY:	
		SHEET	33 OF 34



Culvert Section 276+31



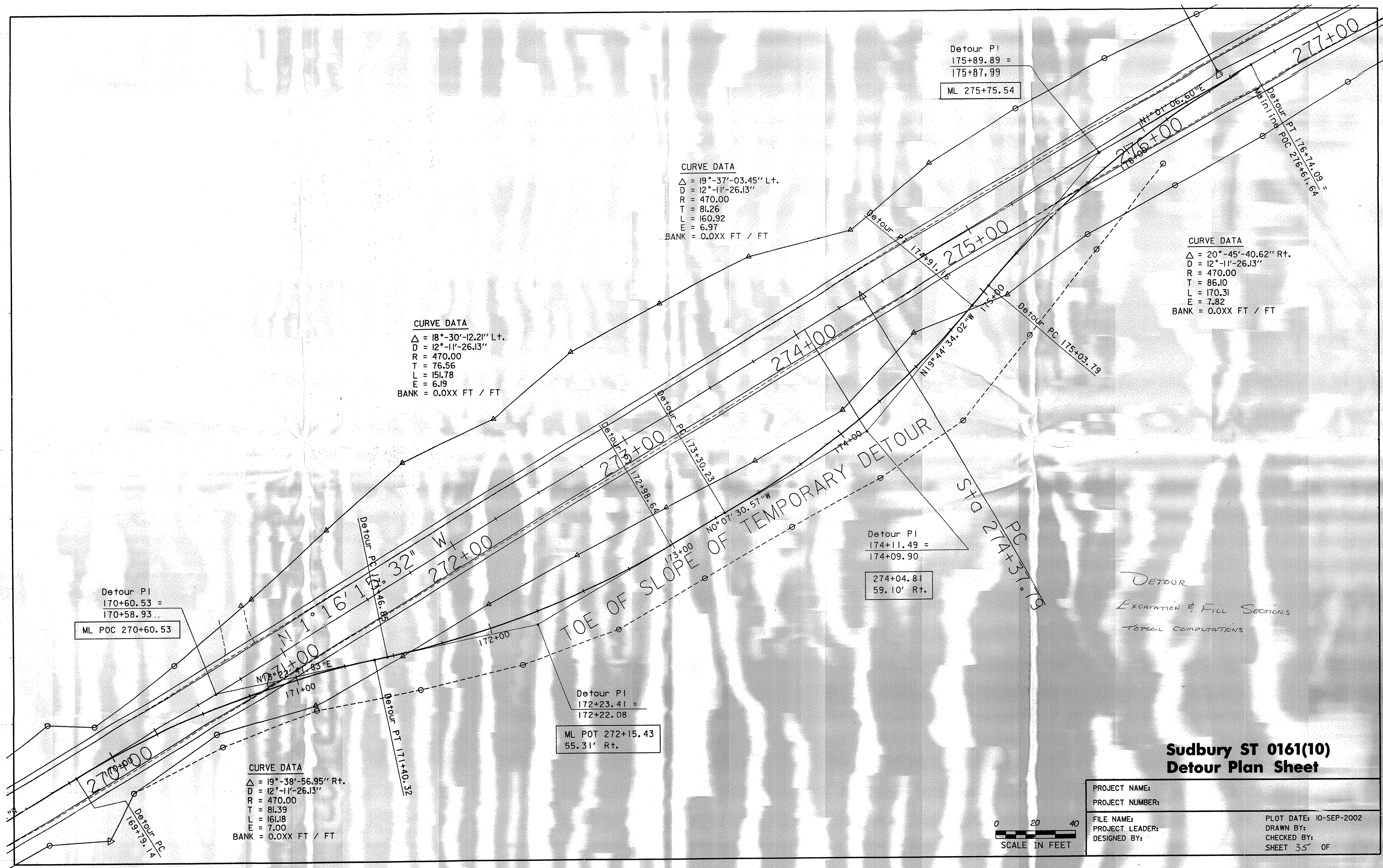
Culvert Section 269+79



PROJECT NAME: SUDBURY
PROJECT NUMBER: ST 0161(10)

FILE NAME: /sqda/00c062/dc062xsl.dgn
PROJECT LEADER: BOMBARDIER
DESIGNED BY: MGN
dc062x07

PLOT DATE: 19-DEC-2001
DRAWN BY: MGN
CHECKED BY:
SHEET 34 OF 34



CURVE DATA
 $\Delta = 19^\circ-37'-03.45''$ L+.
 $D = 12^\circ-11'-26.13''$
 $R = 470.00$
 $T = 81.26$
 $L = 160.92$
 $E = 6.97$
 BANK = 0.0XX FT / FT

CURVE DATA
 $\Delta = 18^\circ-30'-12.21''$ L+.
 $D = 12^\circ-11'-26.13''$
 $R = 470.00$
 $T = 76.56$
 $L = 151.78$
 $E = 6.19$
 BANK = 0.0XX FT / FT

CURVE DATA
 $\Delta = 20^\circ-45'-40.62''$ Rt.
 $D = 12^\circ-11'-26.13''$
 $R = 470.00$
 $T = 86.10$
 $L = 170.31$
 $E = 7.82$
 BANK = 0.0XX FT / FT

CURVE DATA
 $\Delta = 19^\circ-38'-56.95''$ Rt.
 $D = 12^\circ-11'-26.13''$
 $R = 470.00$
 $T = 81.39$
 $L = 161.18$
 $E = 7.00$
 BANK = 0.0XX FT / FT

Detour PI
 $175+89.89 =$
 $175+87.99$
 ML 275+75.54

Detour PI
 $174+11.49 =$
 $174+09.90$

274+04.81
 59.10' Rt.

Detour PI
 $172+23.41 =$
 $172+22.08$

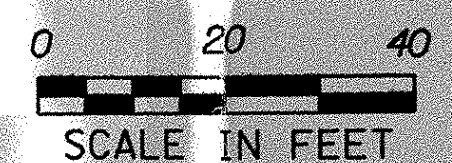
ML POT 272+15.43
 55.31' Rt.

Detour PI
 $170+60.53 =$
 $170+58.93$
 ML POC 270+60.53

DETOUR
 Excavation & Fill Sections
 TOPSOIL COMPUTATIONS

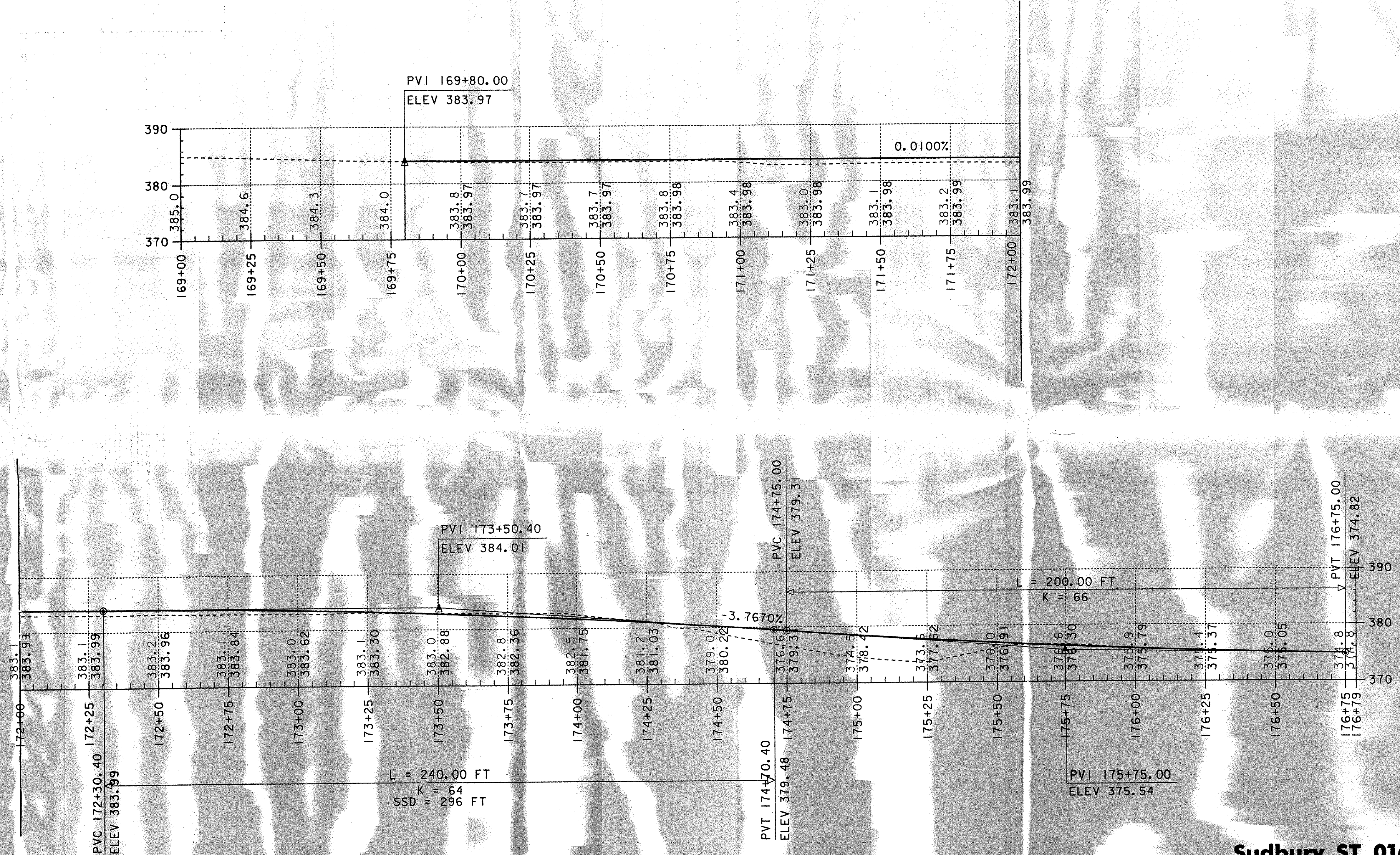
**Sudbury ST 0161(10)
 Detour Plan Sheet**

PROJECT NAME:	PLOT DATE: 10-SEP-2002
PROJECT NUMBER:	DRAWN BY:
FILE NAME:	CHECKED BY:
PROJECT LEADER:	SHEET 35 OF
DESIGNED BY:	



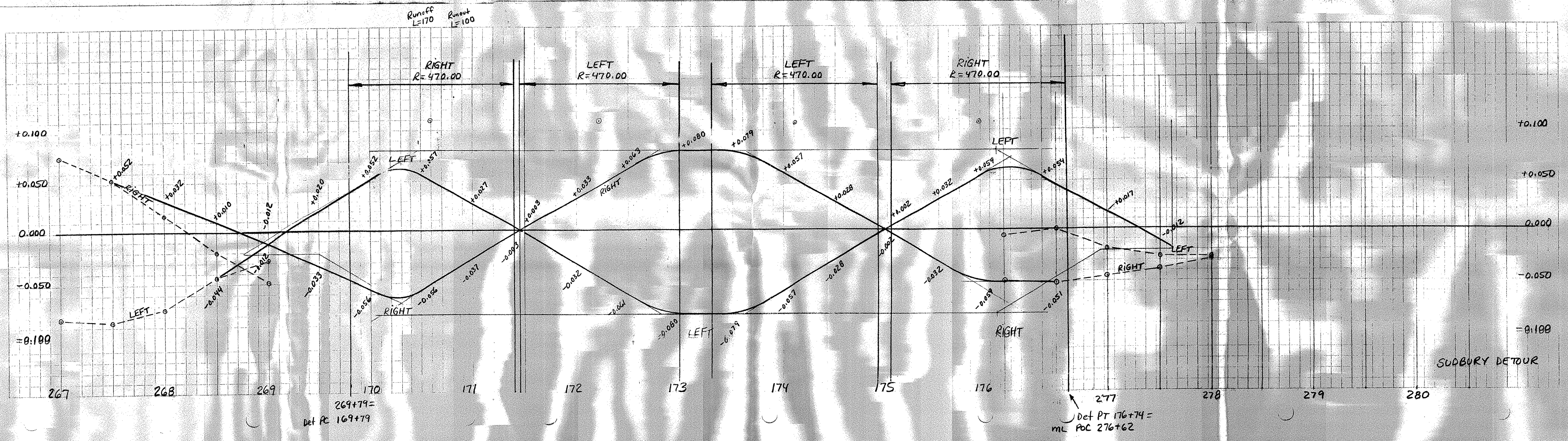
DELONE
27DBCKA

Detour Profile

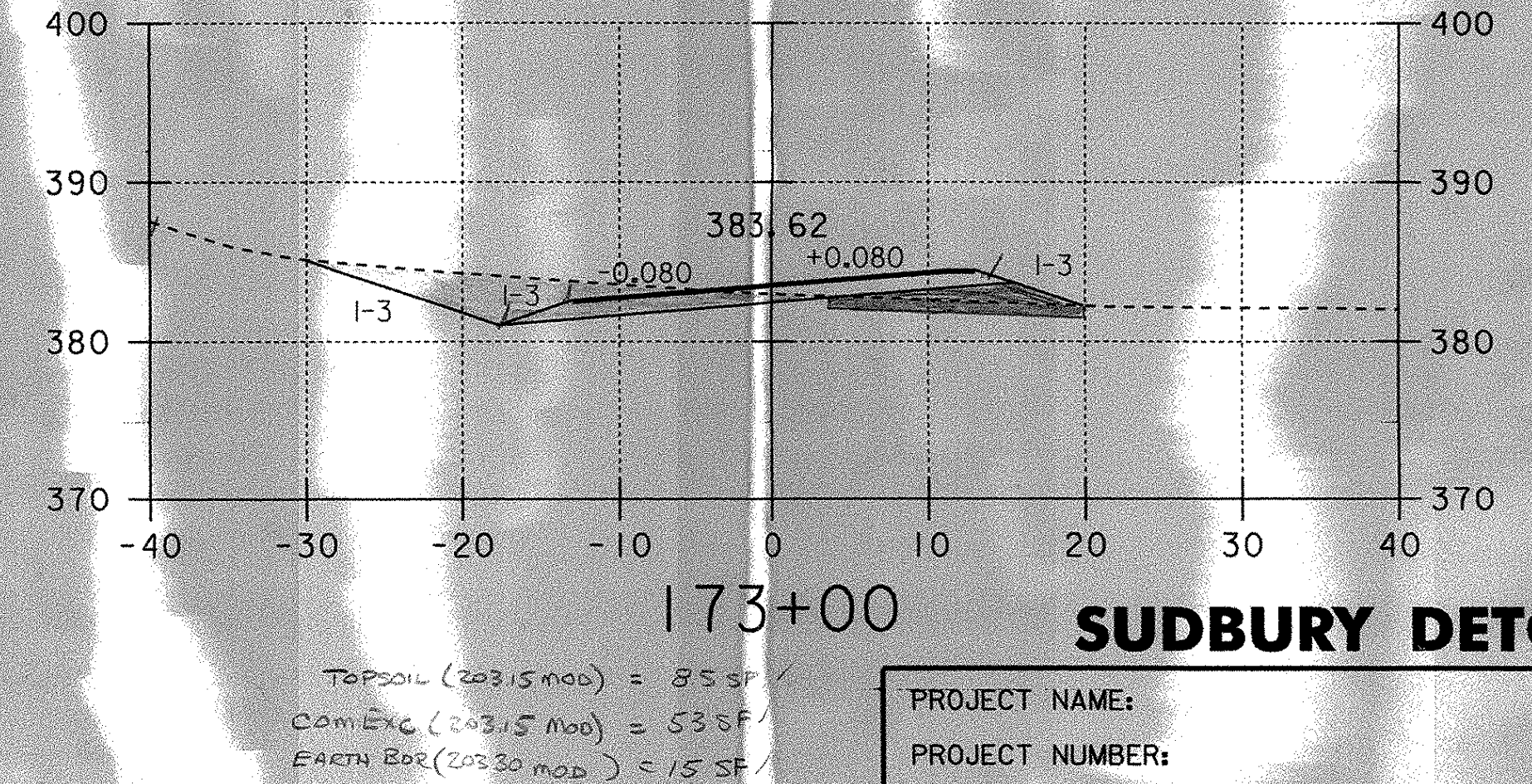
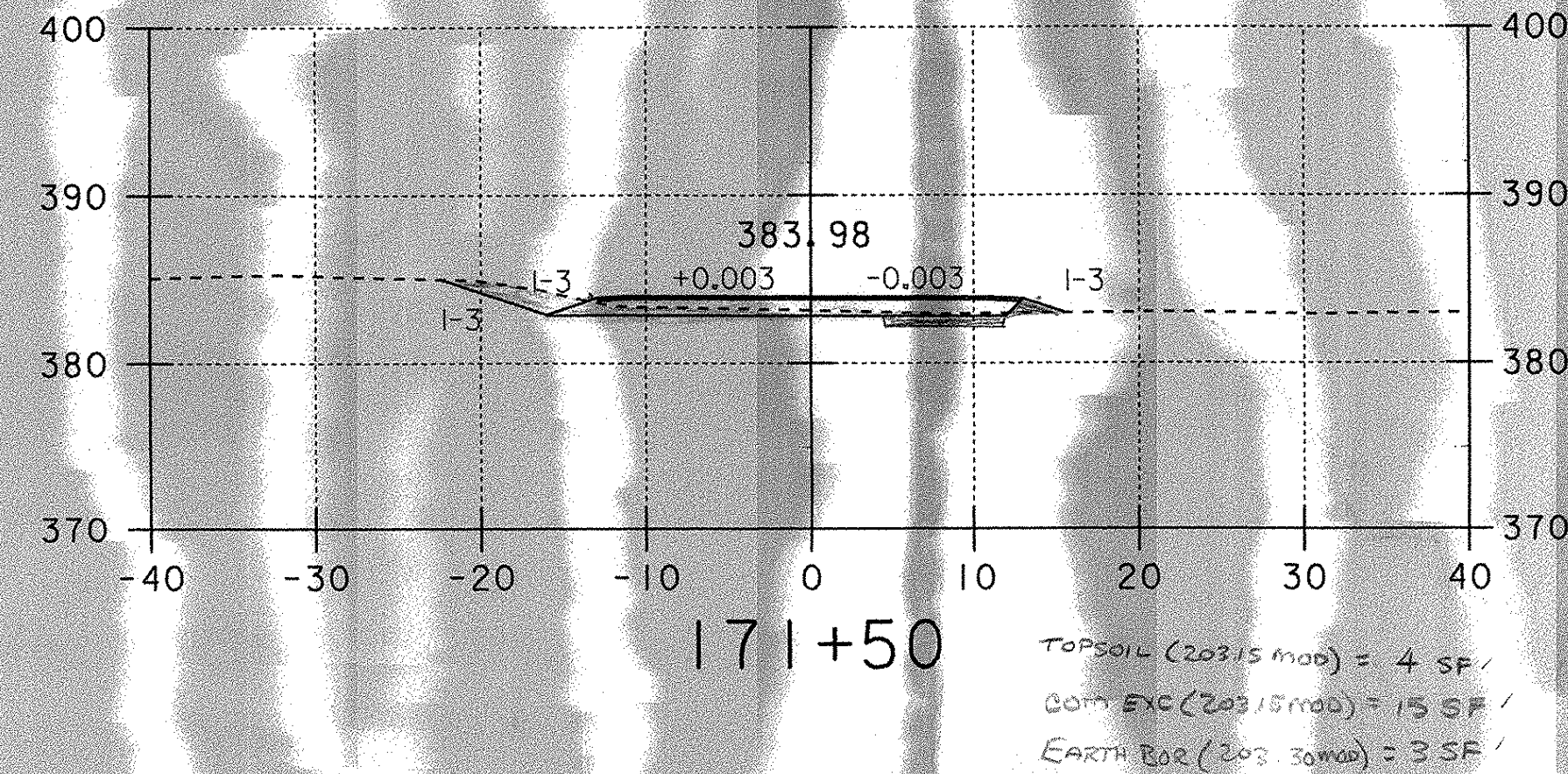
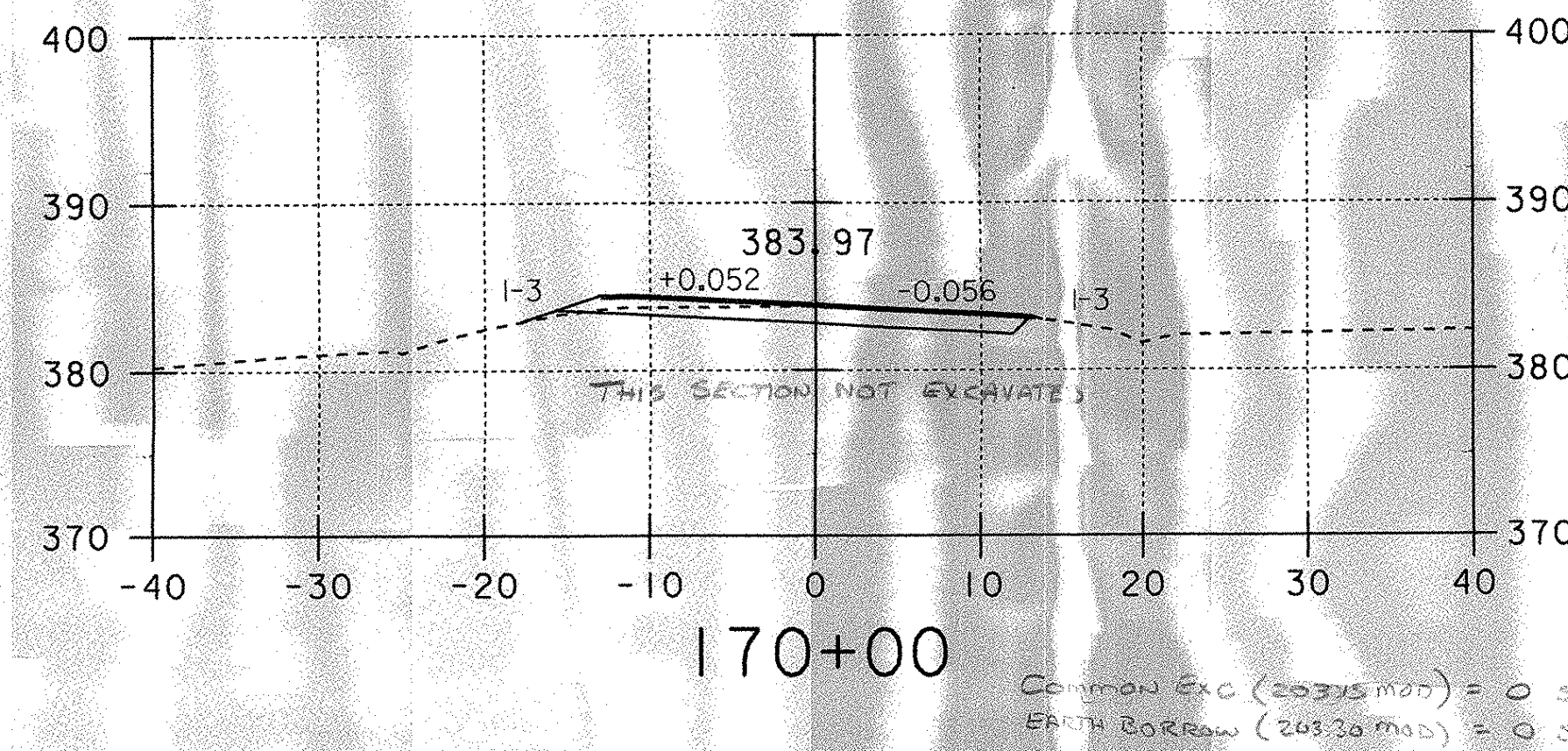
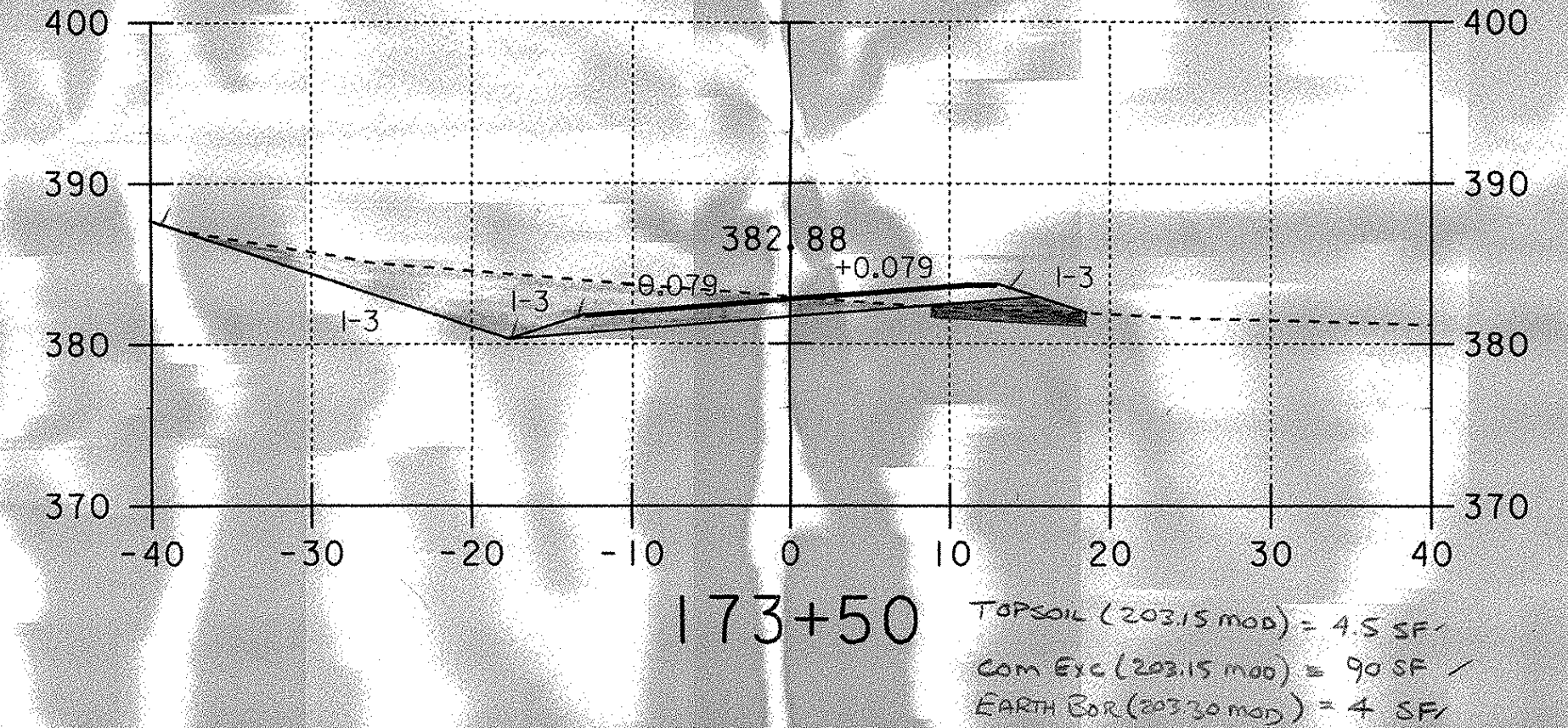
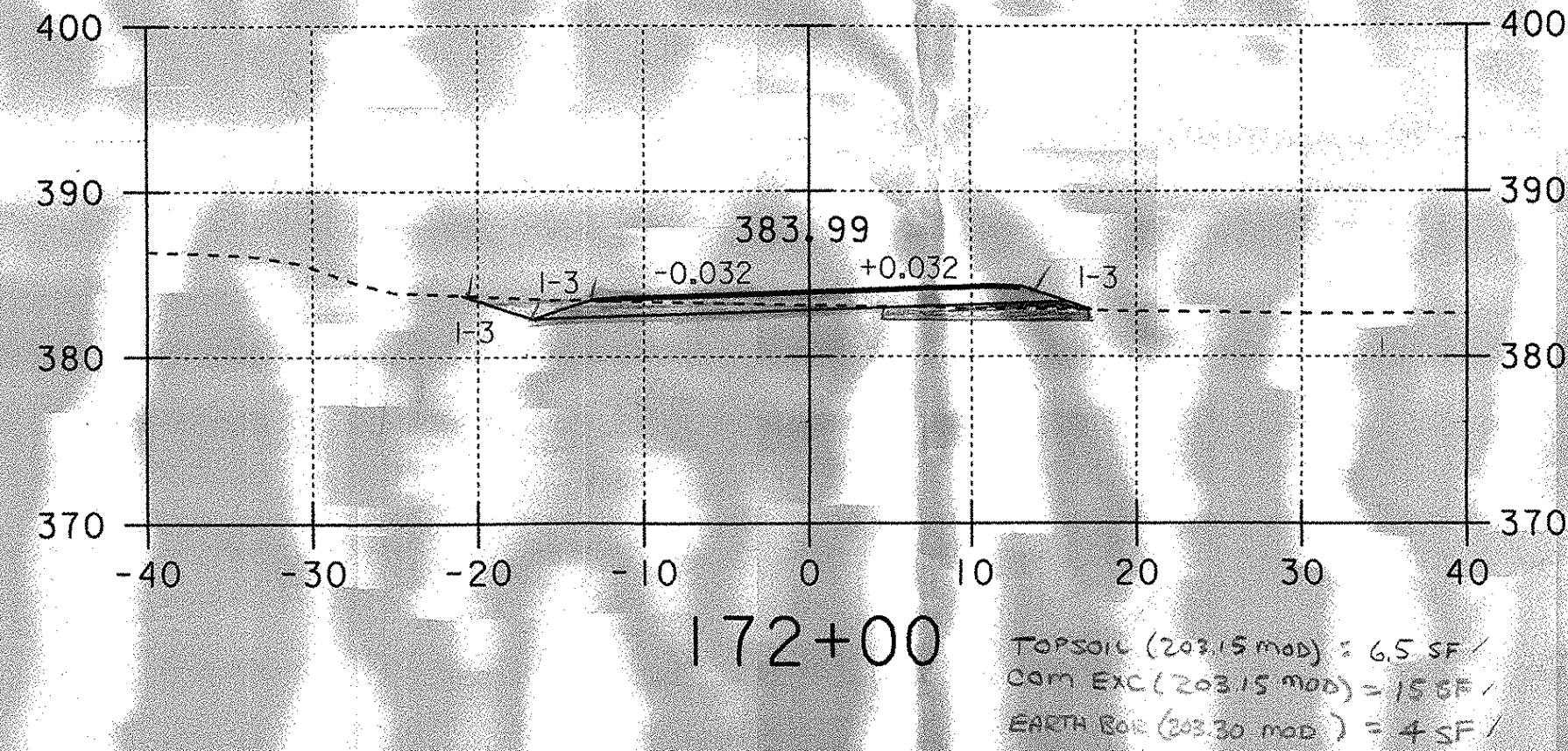
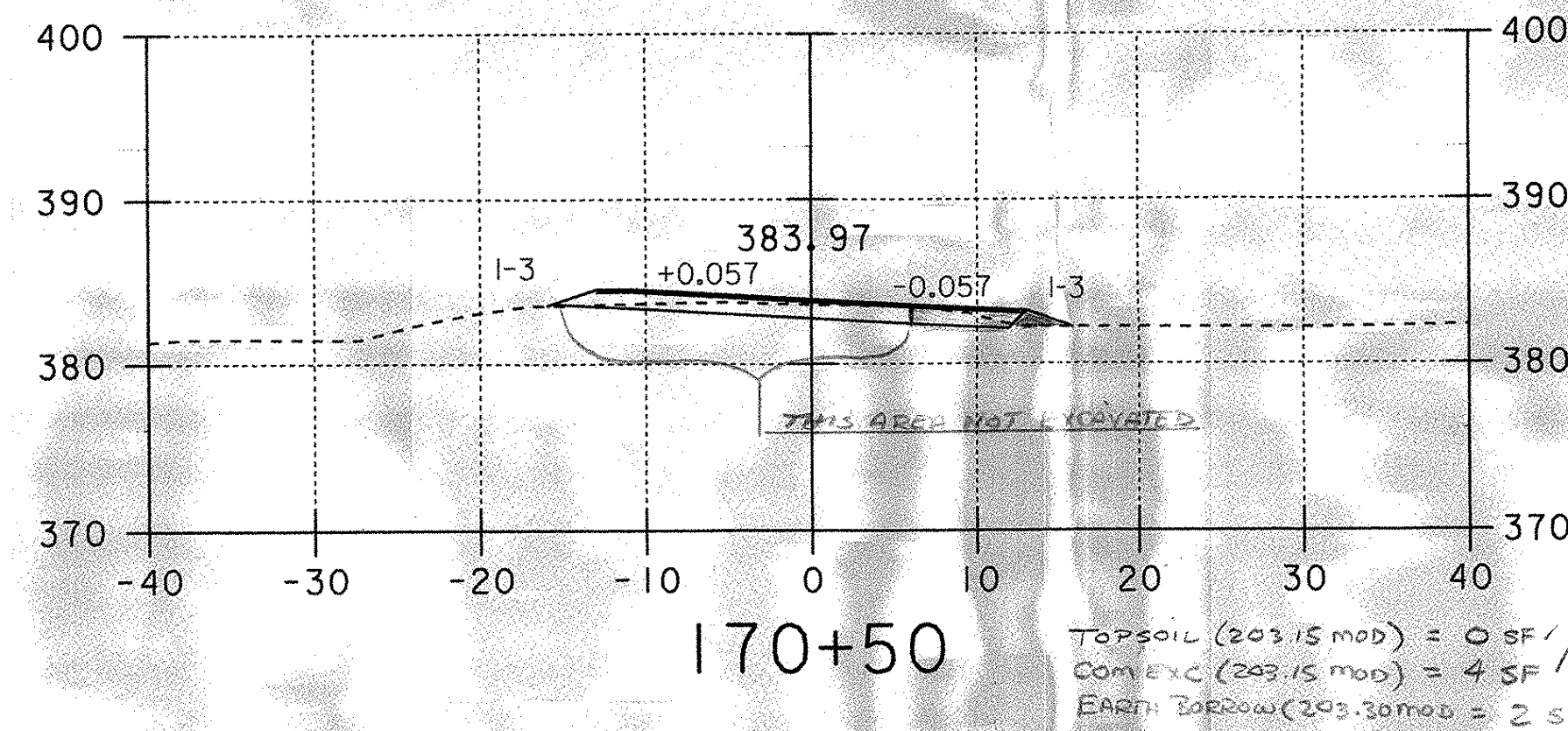
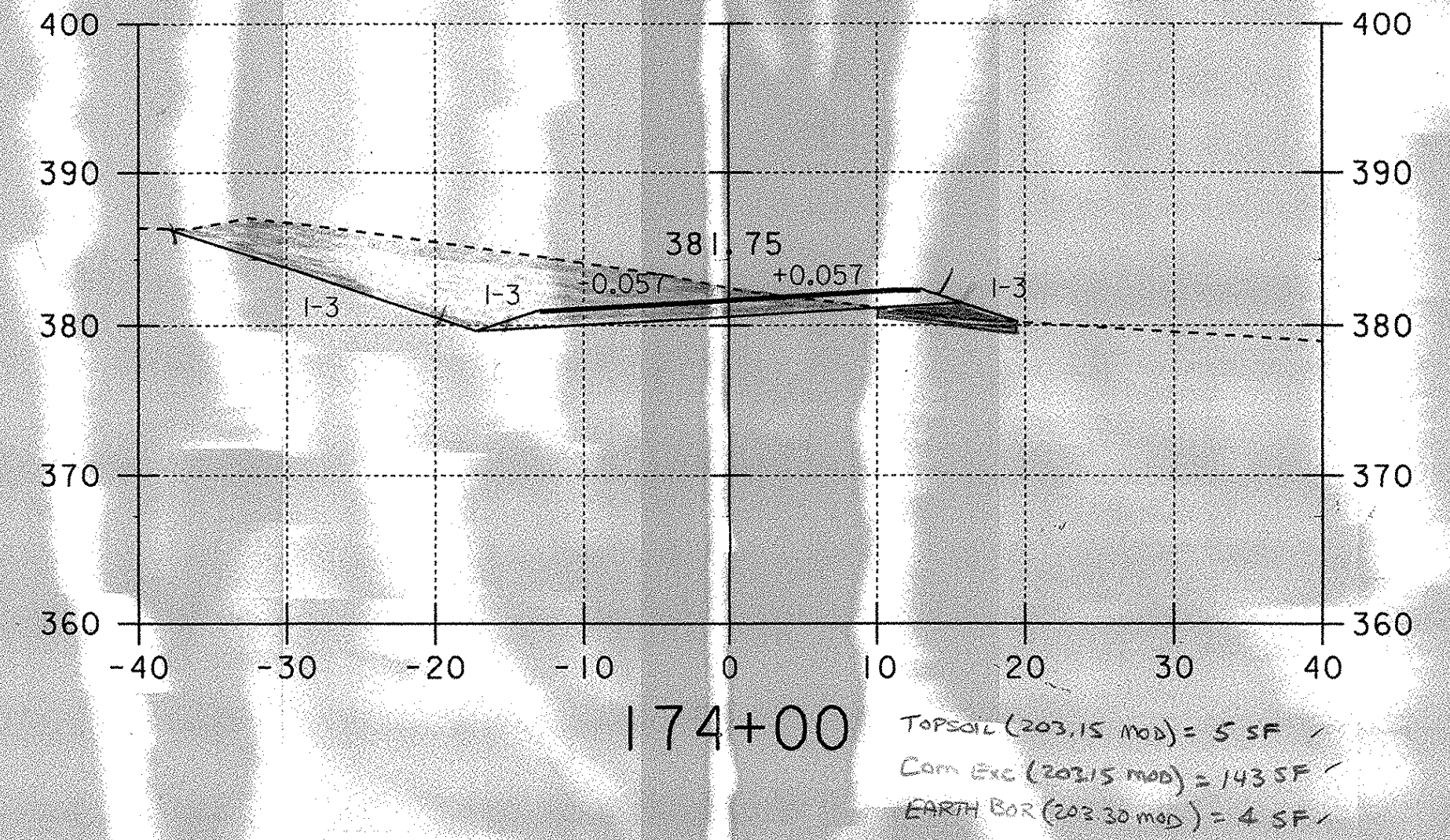
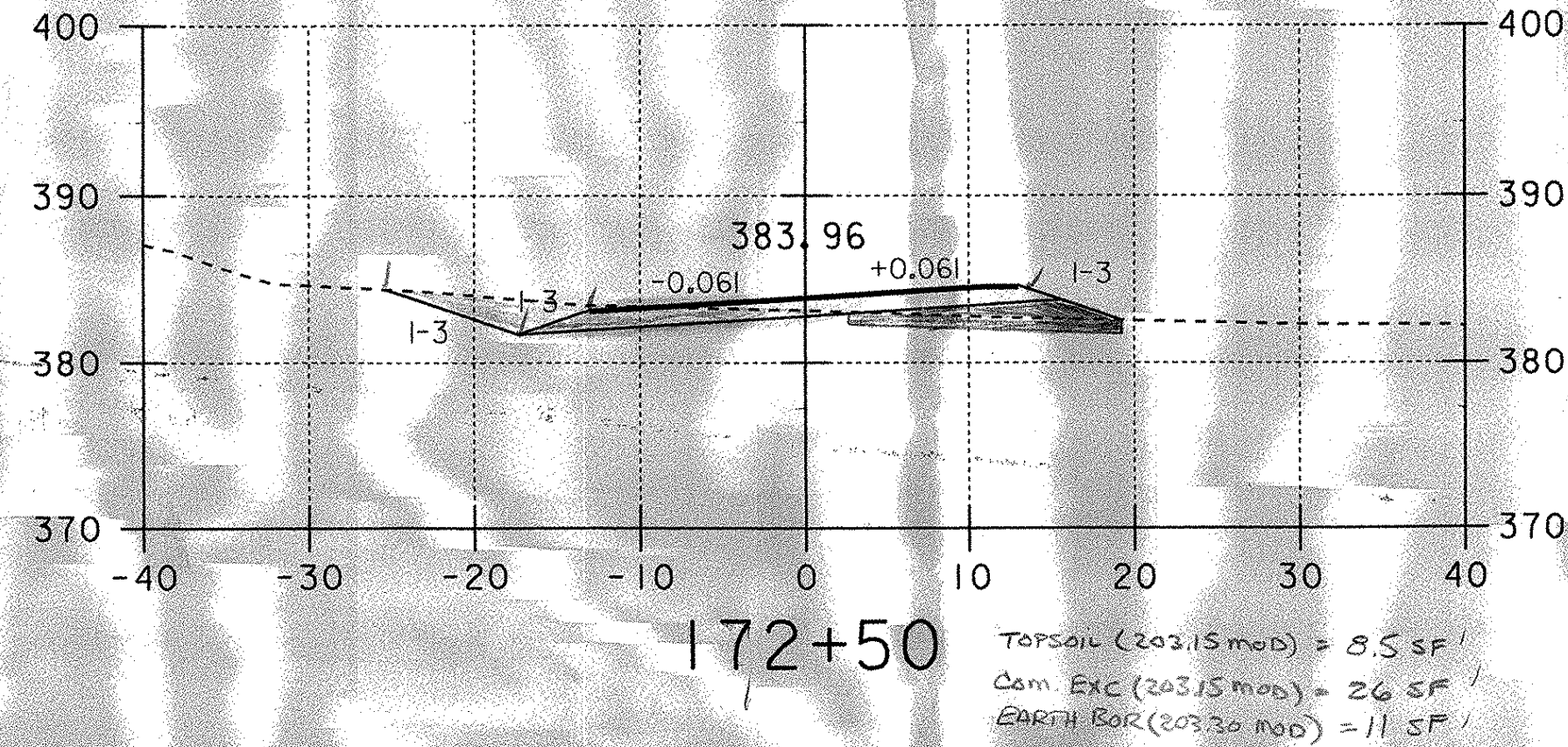
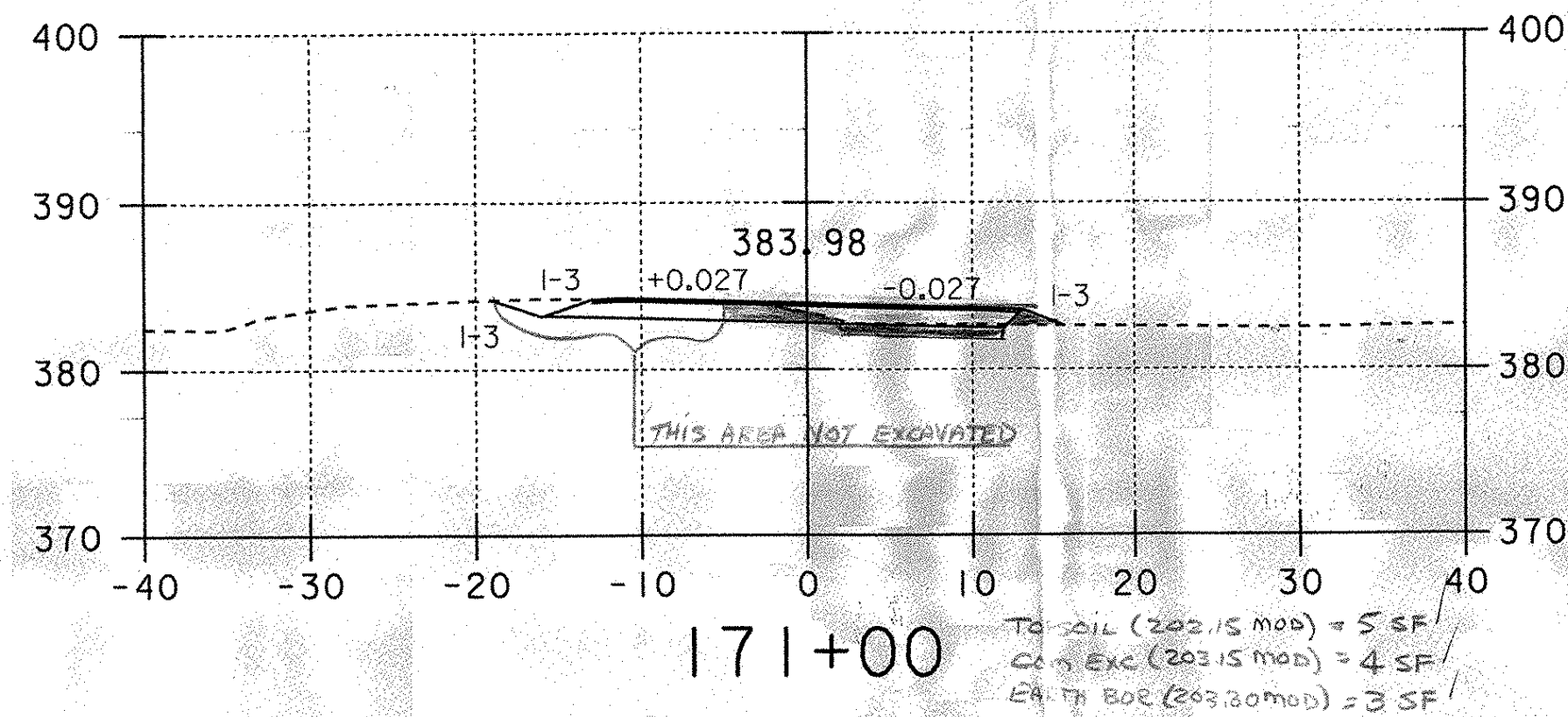


Sudbury ST 0161(10) Detour Profile Sheet

PROJECT NAME:		FILE NAME:	PLOT DATE: 10-SEP-2002
PROJECT NUMBER:		PROJECT LEADER:	DRAWN BY:
		DESIGNED BY:	CHECKED BY:
			SHEET 36 OF

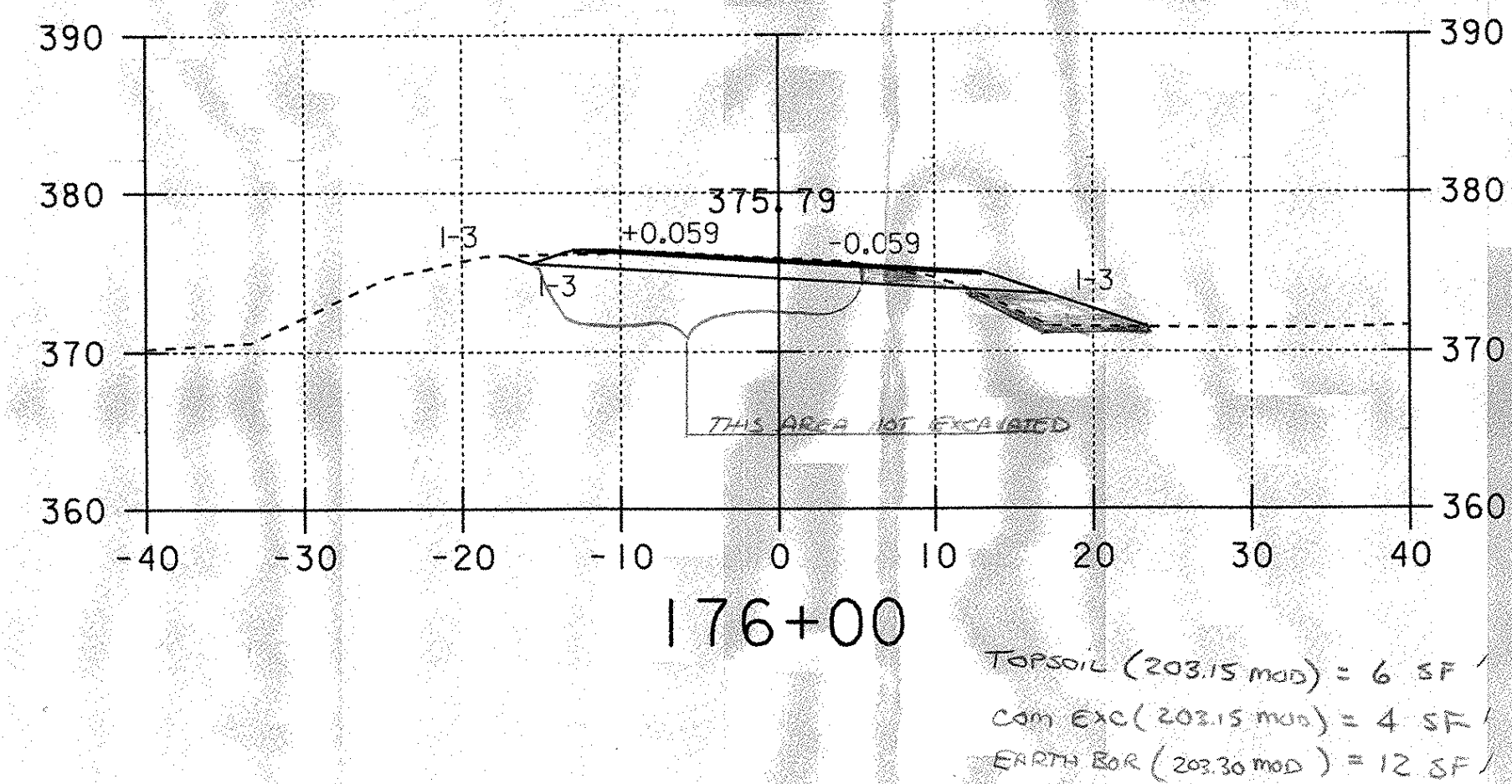
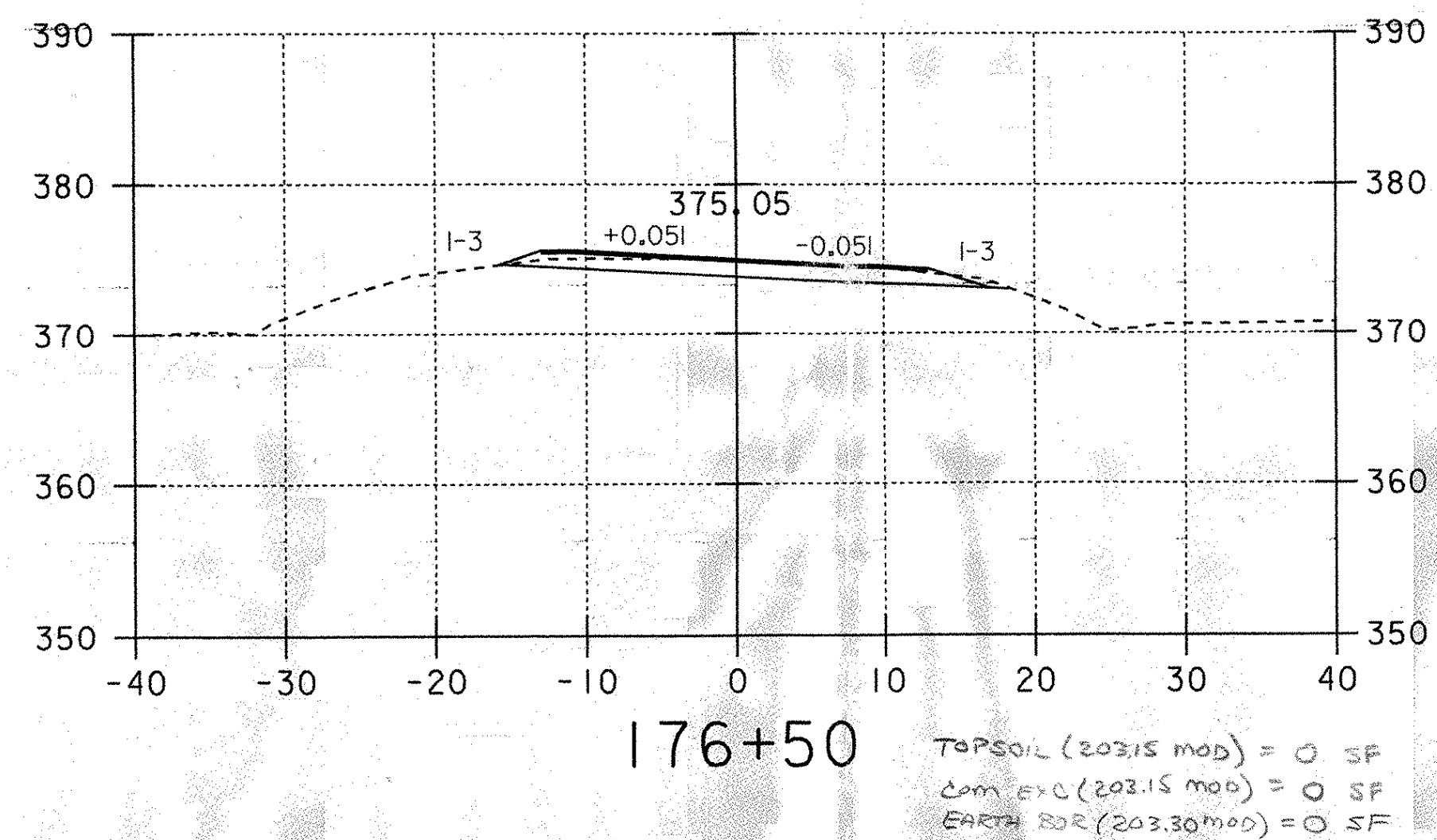
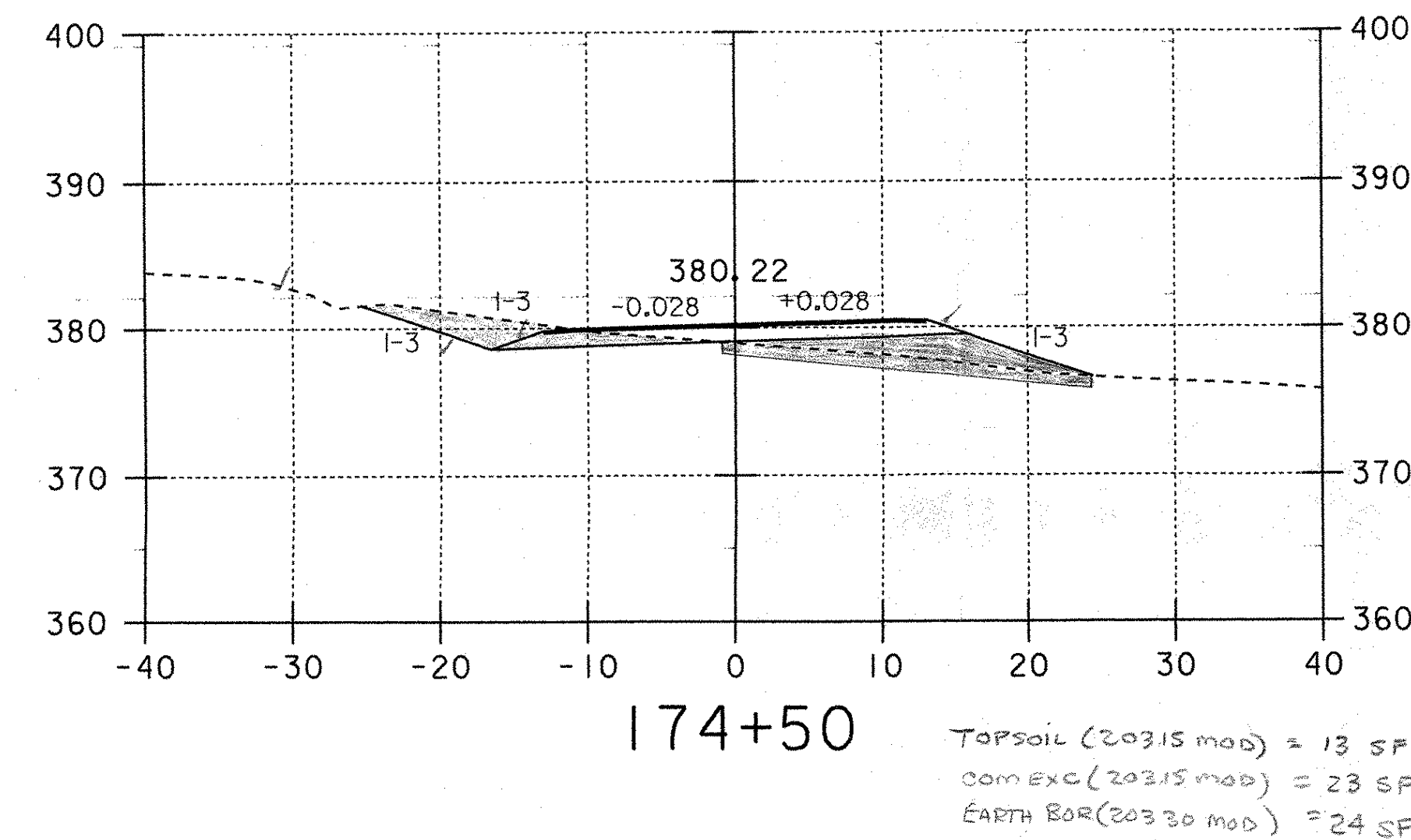
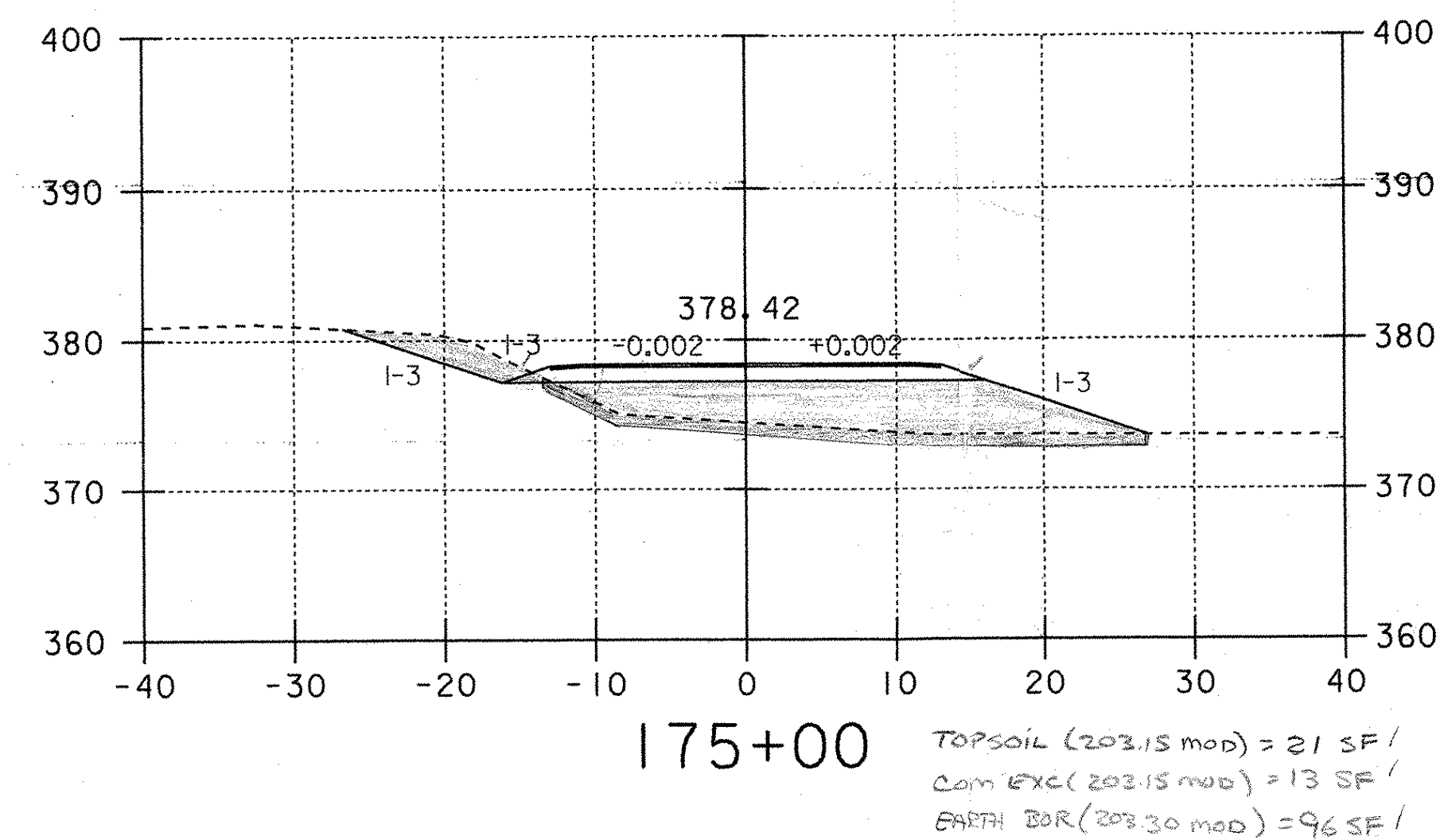
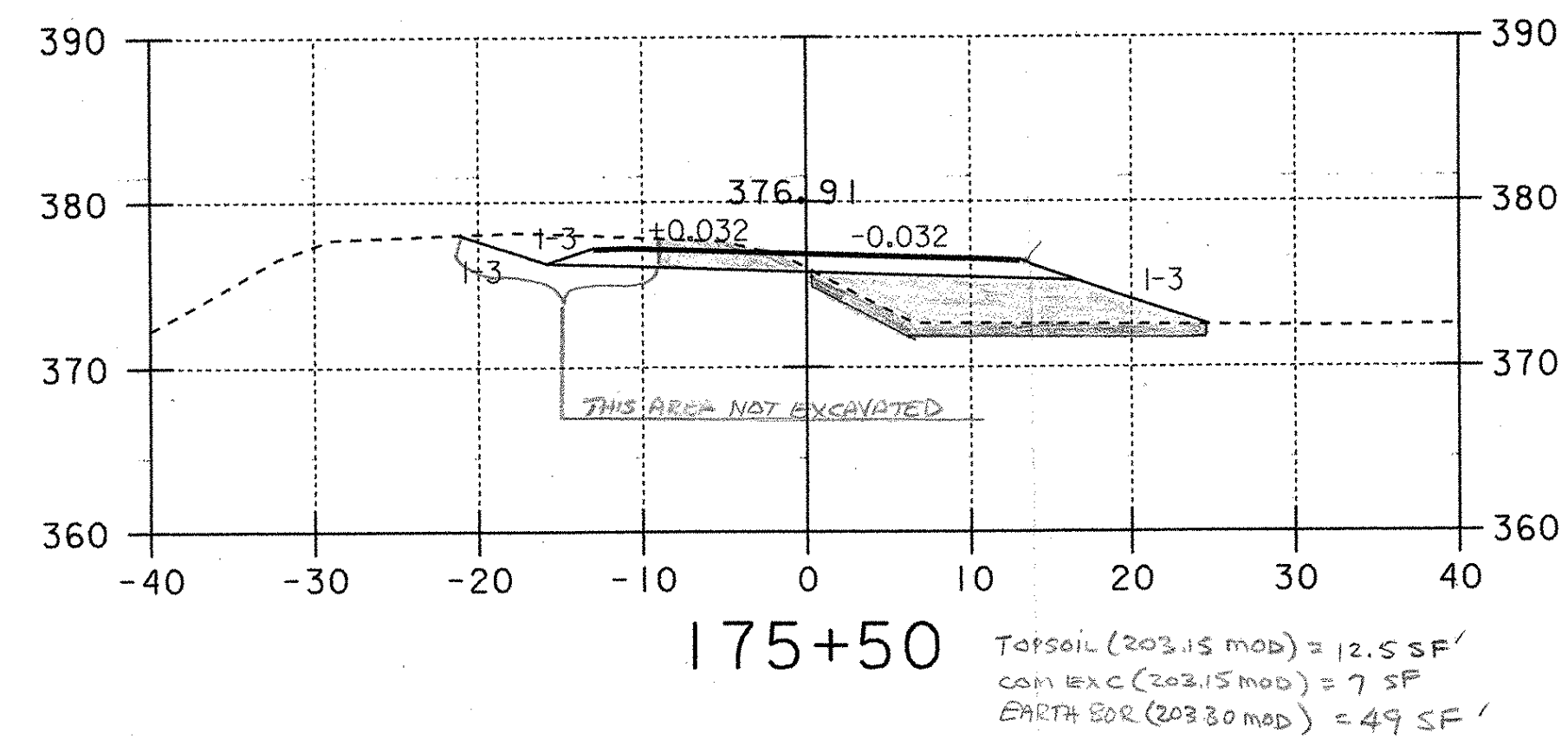


- AUTHORIZED EXCAVATION - TOPSOIL - PAY AS 203.15 (MOD)
- COMMON EXCAVATION - PAY AS 203.15 (MOD)
- EARTH BORROW PAY AS 203.30 (MOD)
- SUBBASE MATERIAL - PAY AS 203.30 (MOD)



SUBBURY DETOUR SECTIONS

PROJECT NAME:	PLOT DATE: 19-SEP-2002
PROJECT NUMBER:	DRAWN BY:
FILE NAME:	CHECKED BY:
PROJECT LEADER:	SHEET 38 OF
DESIGNED BY:	



SUDBURY DETOUR SECTIONS

PROJECT NAME:	
PROJECT NUMBER:	
FILE NAME:	PLOT DATE: 19-SEP-2002
PROJECT LEADER:	DRAWN BY:
DESIGNED BY:	CHECKED BY:
	SHEET 39 OF