

STATE OF VERMONT
AGENCY OF TRANSPORTATION

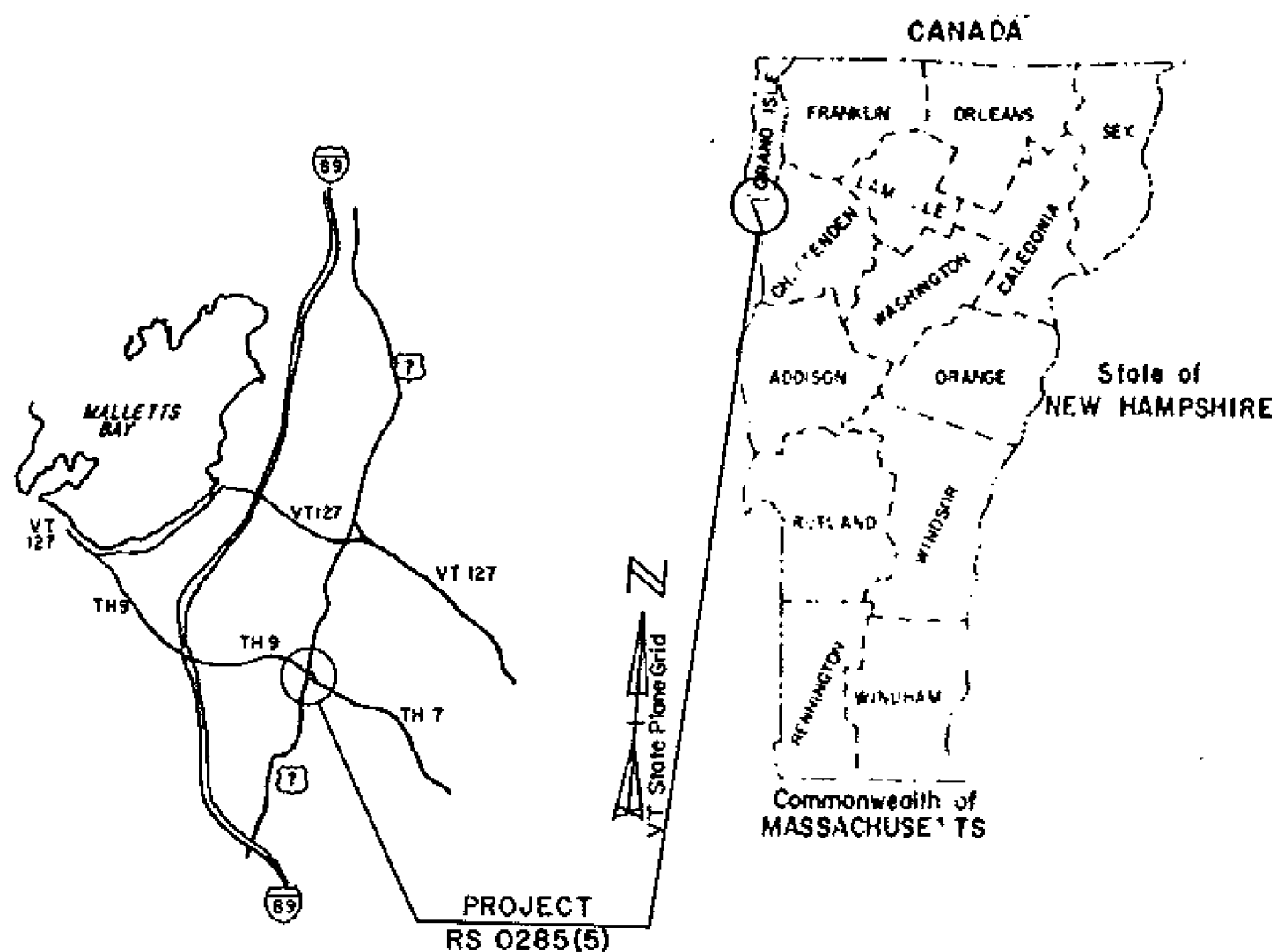


PROPOSED IMPROVEMENT
TOWN OF COLCHESTER
COUNTY OF CHITTENDEN

TOWN HIGHWAY 7, CLASS 2
BEGINNING APPROX. 9515.93 FEET NORTH OF THE WINOOSKI/COLCHESTER
TOWN LINE ON U.S. RTE. 7 AND EXTENDING NORTHERLY 1350 FEET, AND ALSO
BEGINNING AT THE INTERSECTION OF U.S. ROUTE 7 AND
TOWN HIGHWAY 9, AND EXTENDING SOUTHEASTERLY FOR
APPROXIMATELY 989 FEET ALONG RELOCATED TOWN HIGHWAY 7.

LENGTH OF PROJECT 2339 FEET 0.443 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES GRADING, DRAINAGE,
SUB-BASE, AND PAVEMENT AND TRAFFIC SIGNAL INSTALLATION AT THE
INTERSECTION OF TH.9, TH.7 AND U.S.7.



VICINITY MAP
Scale in Miles

CONTRACT PLANS

THESE PLANS DO NOT REFLECT CHANGES MADE
ON THE PROJECT AS "RECORD PLANS" WOULD.

TOWN HIGHWAY 7

1982	AADT	3470
1992	AADT	4410
1992	DHV	600
	D	58%
	T	2%
	V	40MPH

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2- INDEX OF SHEETS

Date MAY 17 1988

Munson Earth-Moving Corporation
Contractor

Signature

ndall G. Munson, President/Treasurer

Title

Transportation Secretary's Signature

CONVENTIONAL SIGNS

- TY LINE
I LINE
S OF ACCESS
OF ACCESS
E LINE
E WALL
ELED WAY
D RAIL
ROAD
EY LINE
ERT
R POLE
PHONE POLE
S
ROL OF ACCESS
ERTY LINE
TAKING LINE
E RIGHTS
OF CUT
X SLOPE

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

SCALE FT
0 100 200

PROJECT PROCESSED UNDER
SECONDARY ROAD PLAN

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED *David B. Kelly* DATE 12/2/87
CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT COLCHESTER HESRS 0285(5)

SHEET 1 OF 93 SHEETS

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE CHIEF ENGINEER.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 1986, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 24, 1986
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

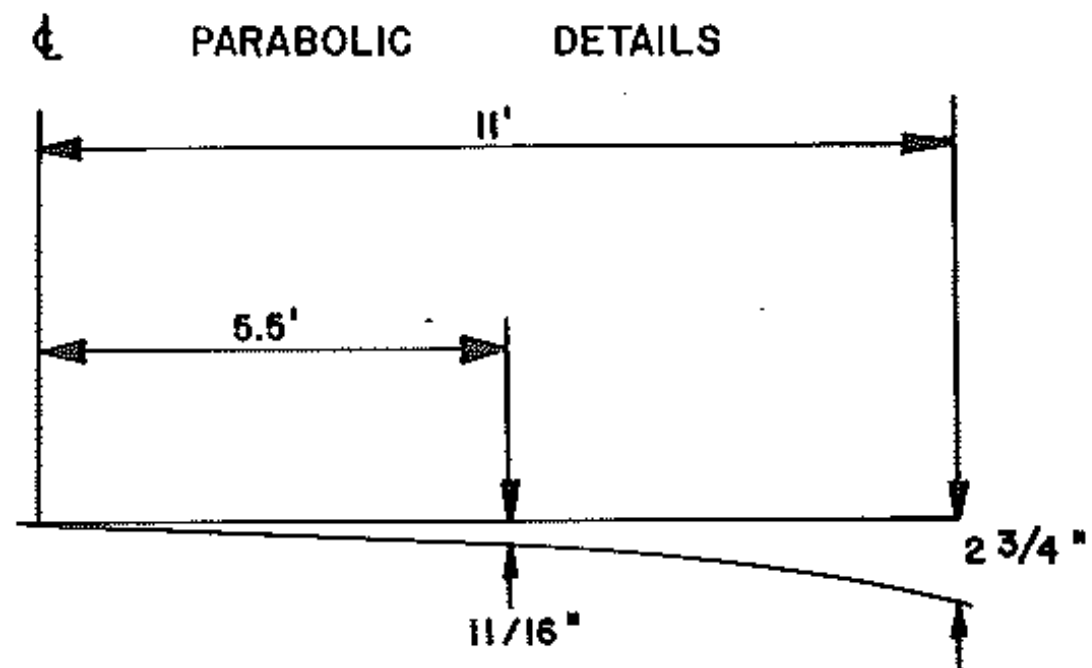
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81	E-150	WARNING SIGN DETAILS	10-30-87
82	E-151	WARNING SIGN DETAILS	10-30-87
83	E-152	WARNING SIGN DETAILS	10-30-87
84	E-160	FLANGED CHANNEL STEEL SIGN POST DETAIL	03-01-88 R
85	E-172	VEHICLE DETECTOR LOOP DETAILS	09-10-87
86	E-180	STREET LIGHTING DETAILS	03-01-88 R
87	E-191	PAVEMENT MARKING DETAILS	09-10-87
88	G-1	STEEL BEAM GUARDRAIL (50MPH & OVER)	10-31-85 R
89	G-4	WOOD MARKER POSTS	10-31-85 R
90	G-14	BREAKAWAY CABLE TERMINAL W/WOOD POSTS	10-31-85 R
91	J-1	BOUNDARY MARKERS	06-27-80
92	T-1	TEMPORARY EROSION CONTROL DETAILS	12-07-76 R
93	T-2	TEMPORARY EROSION CONTROL DETAILS	07-05-72

DATUM
VERTICAL _____
HORIZONTAL _____

SURVEYED BY	BEYOR	DATE	3-88
DRAWN BY	HALE	DATE	3-88
SQUAD LEADER		DATE	3-14-88
DESIGN FILE NO.	78E126	DATE	3-14-88
PROJ. NAME	COLCHESTER		
PROJ. NO.	RS 0285(5)		
SHEET	2 OF 93	SHEETS	

T.H. 7&9 TYPICAL SECTIONS



1 1/4" (± 1/4") BITUMINOUS CONCRETE PAVEMENT ITEM 406.25 TYPE III
1 3/4" (± 1/4") BITUMINOUS CONCRETE PAVEMENT ITEM 406.25 TYPE II
3" (± 1/2") BITUMINOUS CONCRETE PAVEMENT ITEM 406.25 TYPE I
24" (± 1") SUBBASE OF DENSE GRADED CRUSHED STONE ITEM 301.35
SHOULDER: 1 1/4" (± 1/4") BITUMINOUS CONCRETE PAVEMENT ITEM 406.25 TYPE III
0-24" (± 1") SAND BORROW ITEM 203.31 (IN CUT)
0-12" (± 1") GRANULAR BORROW ITEM 203.32 (IN FILL) } TO BE PLACED AS SHOWN ON PLANS
OR AS DIRECTED BY THE ENGINEER

RURAL AREAS				
% WT	LBS./A	NAME	PUR. %	GERM %
3.33	2	CROWN VETCH	97	75
50.00	30	CREEPING RED FESCUE	98	85
8.33	5	TIMOTHY	99	85
16.67	10	PERENNIAL RYE GRASS (VAR. PENNFINE)	95	85
8.34	5	ALFALFA (VAR. SARAHAC)	99	85
8.33	5	BIRDSFOOT TREFOIL (VAR. EMPIRE)	98	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60			

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT, AND SHALL BE FREE FROM ALL NOXIOUS WEED SEED.

HAY MULCH, ITEM 651.25, TO BE PLACED ON ALL EARTH SLOPES AT THE RATE OF TWO TONS PER ACRE.

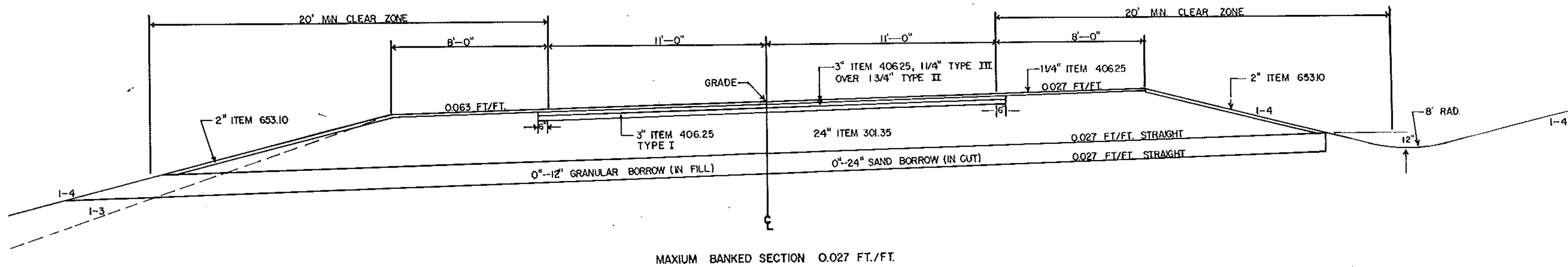
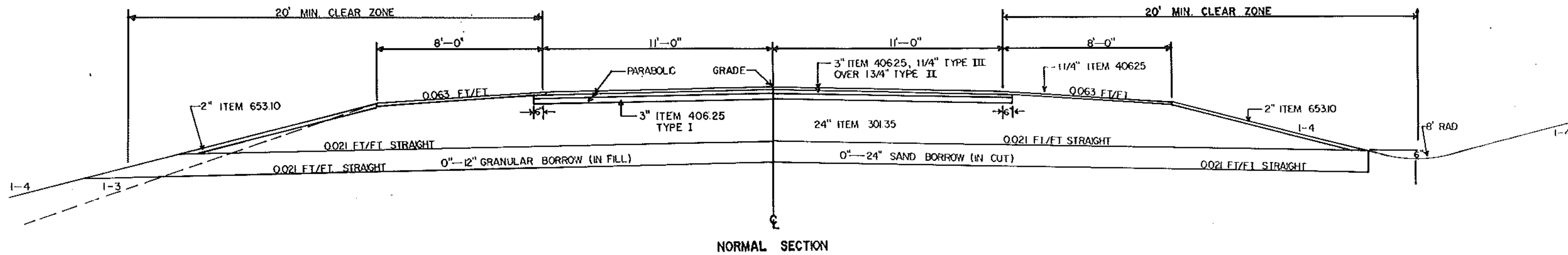
FERTILIZER, ITEM 65L18, SHALL BE MIXED AS FOLLOWS:

NITROGEN	10 %
PHOSPHORUS	20 %
POTASH	10 %

FERTILIZER SHALL BE DELIVERED IN BAGS OF NOT TO EXCEED 100 LBS. EACH
AND IS TO BE APPLIED AT THE RATE OF 500 LBS. PER ACRE.

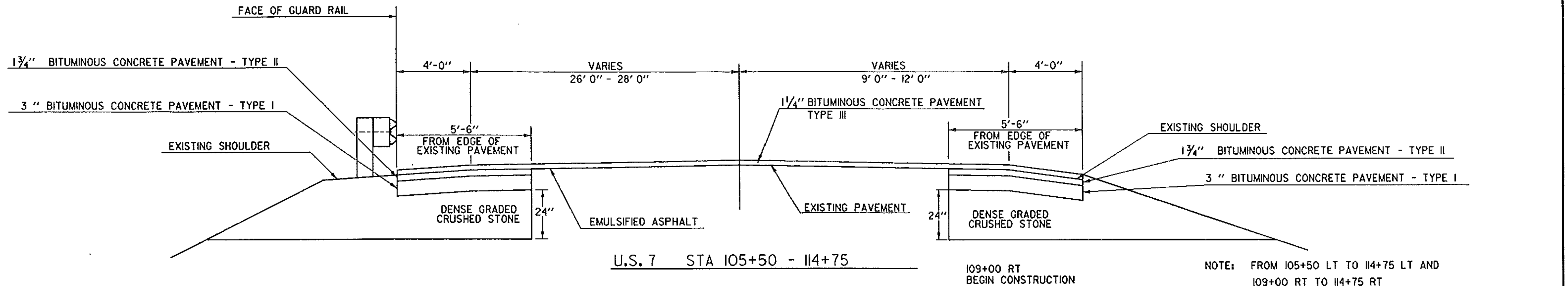
AGRICULTURAL LIMESTONE, ITEM 651.20, TO BE APPLIED TO ALL EARTH SLOPES
AT THE RATE OF TWO TONS PER ACRE OR AS DIRECTED BY THE ENGINEER.

WOOD MARKER POSTS, ITEM 619.15, TO BE PLACED AS DIRECTED BY THE ENGINEER.
FOR ROUNDING OF SLOPES, SEE STANDARD SHEET B-5.



TYPICAL SECTIONS U.S. 7

- 1 1/4" BITUMINOUS CONCRETE PAVEMENT (TYPE III ± 1/4")
- 1 3/4" BITUMINOUS CONCRETE PAVEMENT (TYPE II ± 1/4")
- 3 " BASE COURSE OF BITUMINOUS CONCRETE PAVEMENT (TYPE I ± 1/4")
- 24" DENSE GRADED CRUSHED STONE
- EMULSIFIED ASPHALT, TO BE APPLIED AT THE RATE OF .015 GAL./SQ. YD. OR AS DIRECTED BY THE ENGINEER.

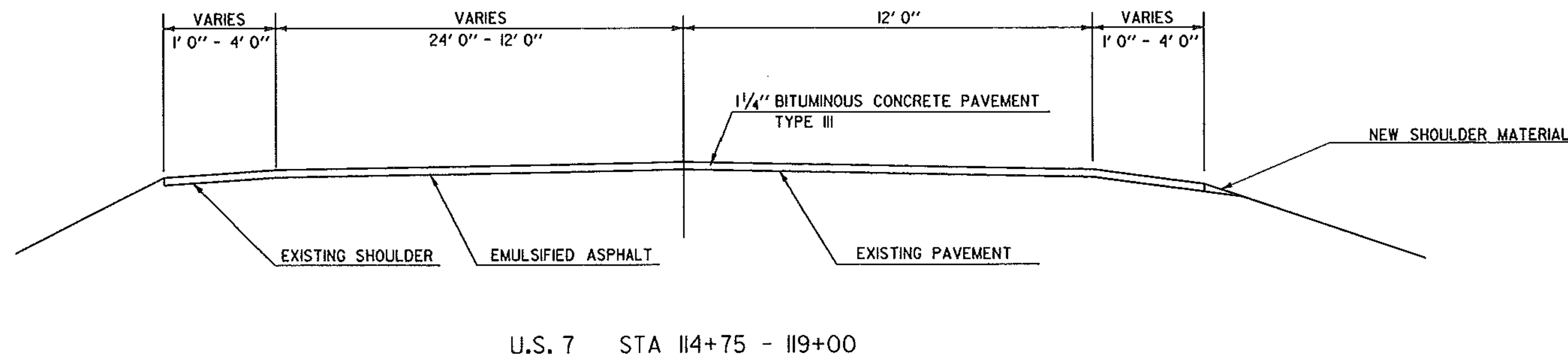


109+00 RT
BEGIN CONSTRUCTION

NOTE: FROM 105+50 LT TO 114+75 LT AND
109+00 RT TO 114+75 RT
PAVEMENT SHALL BE CUT OR SAWN, NOT RIPPED.
PAYMENT SHALL BE SUBSIDIARY TO COMMON EXCAVATION.

STEEL BEAM GUARDRAIL
TH #9 @ 8+50 RT TO U.S. 7 @ 113+98.5 LT

TWISTED END TERMINAL
U.S. 7 @ 113+73.5 LT - 113+98.5 LT



SURVEYED BY	BEYOR	DATE	10-87
DRAWN BY	HALE	DATE	10-87
SQUAD LEADER	HALE	DATE	1-2-88
DESIGN FILE NO.	78E126	DATE PLOTTED	1-2-88
PROJ. NAME	COLCHESTER		
PROJ. NO.	RS 0285(5)		
SHEET	4 OF 93 SHEETS		

TUM
VERTICAL
HORIZONTAL

QUANTITY SHEET

AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

	R.O.W.	TEMPORARY EROSION CONTROL	EROSION CONTROL	NON PARTICIPATION	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
		2				3	5	HR	LOADER RENTAL TYPE I	608.40	EST.
						200	200	M GAL	DUST CONTROL W/WATER	609.10	EST.
						2	2	TON	DUST AND ICE CONTROL W/CALC. CHLORIDE	609.15	EST.
		10				10	20	CY	STONE FILL, TYPE I	613.10	9
						10	10	CY	STONE FILL, TYPE II	613.11	3
						10	10	EA	BOUNDARY MARKERS	619.10	EST.
						6	6	EA	WOOD MARKER POST	619.15	EST.
						6	6	EA	REMOVING AND RESETTNG PRGP. MARKER	619.20	EST.
						30	30	LF	PLANK RAIL	621.15	-
						240	240	LF	STEEL BEAM GUARDRAIL	621.20	2.5
						1	1	EA	BREAKAWAY CABLE TERMINAL (BCT)	621.50	-
						1	1	EA	TWISTED END TERMINAL (TEXAS TWIST)	621.51	-
						305	305	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
						465	465	HR	FLAGGERS	630.15	EST.
						1	1	LS	FIELD OFFICE-ENGINEERS	631.10	EST.
						1	1	LS	MOBILIZATION	635.10	EST.
						1	1	LS	TRAFFIC CONTROL	641.10	EST.
						390	390	LF	DURABLE 4" WHITE LINE	646.30	4
						6660	6660	LF	DURABLE 4" YELLOW LINE	646.31	2
						145	145	LF	DURABLE 8" YELLOW LINE	646.35	3
						105	105	LF	DURABLE 24" STOP BAR	646.40	4
						12	12	EA	DURABLE ARROW MARKING	646.42	-
						60	60	EA	DURABLE LETTER IN WORD MARKING	646.44	-
						5800	5800	LF	TEMPORARY 4" WHITE LINE PAINT	646.50	25
						600	600	LF	TEMPORARY 4" WHITE LINE (MOD.) TAPE	646.50	25
						9100	9100	LF	TEMPORARY 4" YELLOW LINE PAINT	646.51	60
						1600	1600	LF	TEMPORARY 4" YELLOW LINE (MOD.) TAPE	646.51	-
						200	200	LF	24" TEMPORARY STOP BAR	646.60	-
						1200	1200	SF	REMOVAL OF EXISTING PVT. MARKINGS	646.80	13
			240				240	LB	SEED	651.15	-
		30					30	LB	SEED-WINTER RYE	651.17	-
		250	2000				2250	LB	FERTILIZER	651.18	-
			8				8	TON	AGRICULTURAL LIMESTONE	651.20	-
		1	8				9	TON	HAY MULCH	651.25	-
						485	485	CY	TOPSOIL	651.35	-
		100	300				400	SY	EROSION MATTING	654.10	-

DETAILED SUMMARY OF QUANTITIES

[illegible]

DETAILED SUMMARY OF QUANTITIES

[illegible]

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			
TOTALS									

PROJECT NAME COLCHESTER

PROJECT NUMBER RS 0285(5)

1-2-88 78EI26
 SHEET 6 OF 93 SHEETS

AGENCY OF TRANSPORTATION

DETAILED SUMMARY OF QUANTITIES

DETAILED SUMMARY OF QUANTITIES

[illegible][illegible]

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			
TOTALS									

PROJECT NAME COLCHESTER
 PROJECT NUMBER RS 0285(5)

1-2-88 78E126
 SHEET 7 OF 93 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GUARD RAIL

[illegible]

AGENCY OF TRANSPORTATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
C. GRADE	STATION	GRADES		CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT		V. C.	GRADE	STATION	GRADES		CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT		SUMMARY AND BALANCES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		ELEVATION ON TANGENT	ELEVATION ON CURVES			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.				AREA	CU. YDS.			AREA	CU. YDS.	AREA	CU. YDS.	STATION TO STATION	TOTAL EXCAV EARTH & ROCK	ROCK EXCAV CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES		ACCUMULATIVE EXCESSES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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SHEET NO.	COL. NO.	SUMMARY BY COLUMNS			REMARKS
		EXCAVATION	EMBANKMENT		
		TOTAL CY	ROCK CY	CY	
					EARTH AND ROCK EXCAVATION 6227
					SOLID ROCK EXCAVATION -
					EARTH EXCAVATION 6227
					PLANIMETERED FILL 10171
					LESS FACTORED SOLID ROCK -
					LESS DISPLACEMENT OF ANY LARGE STRUCTURES -
					NET PLANIMETERED FILL 10171
					FACTOR 1.15 1526
					PLANIMETERED FILL INCLUDING FACTOR 11697
					MATERIALS AVAILABLE FOR FILLS -
					EARTH EXCAVATION 6227
					CHANNEL EXCAVATION -
					UNDERDRAIN EXCAVATION -
					STRUCTURE EXCAVATION -
					TOTAL MATERIAL AVAILABLE FOR FILL 6227
					TOTAL FILL INCLUDING FACTOR 11697
					TOTAL MATERIAL FOR FILL 6227
					BORROW TOTAL 5470
					EXCESS EXCAVATION
					GRANULAR BORROW 1425
					EARTH BORROW 4045

A dark, grainy, black and white photograph of a textured surface, possibly a book cover or endpaper. The image is characterized by a dense pattern of small, bright white specks and fibers against a dark, almost black background. The texture appears rough and uneven, with some areas showing more concentration of the white particles than others. The overall appearance is that of a microscopic view or a high-contrast scan of a physical material.

[illegible]

R.O.W. PLANS

BEGINNING AT THE INTERSECTION OF U.S. ROUTE 7 AND
TOWN HIGHWAY 9, AND EXTENDING SOUTHEASTERLY FOR
APPROXIMATELY 989 FEET ALONG RELOCATED TOWN HIGHWAY 7.

LENGTH OF PROJECT 989 FEET 0.187 MILES

LENGTH OF R.O.W. PROJECT = 1449 FEET = 0.273 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES GRADING, DRAINAGE, SUB-BASE, AND PAVEMENT FOR A TOWN HIGHWAY ON NEW LOCATION.

BEGIN R.O.W. PROJECT RS 0285(5)

STA. 7+06 RT.

T.H. 9 Sto. 7+50
BEGIN APPROACH

END MAINT. AGREE. AREA NO. I
BEGIN RELINQUISHMENT NO. II
10+27 CL

END RELINQUISHMENT NO. I
STA. 21+35 C

TH 7 Sig 20+00 /
END PROJECT RS 0285(5)
BEGIN APPROACH /

TH. 7 Sto. 21+75
END APPROACH

END R.O.W. PROJECT RS 0285(5)
STA. 21+40 LT. P

PROJECT PROCESSED UNDER
SECONDARY ROAD PLAN

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction. Instructions to be carried out in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1975, as approved by the Federal Highway Administration on October 27, 1976 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

APPROVED _____
CHIEF, PROPERTY ADMINISTRATION

DATE _____

SUBMIT TO DIRECTOR OF THE STATE TRANSPORTATION BOARD
 SPECIAL AGENT IN CHARGE
 DIRECTOR OF ENGINEERING AND CONSTRUCTION
 FEDERAL HIGHWAY ADMINISTRATION
 FEDERAL HIGHWAY ADMINISTRATION
 COLCHESTER RS 0285(5)
 SHEET 12 OF 93 SHEETS

CONVENTIONAL SIGNS	
PROPERTY LINE	— — — — —
OWN LINE	— — — — —
RIGHTS OF ACCESS	— — — — —
POINT OF ACCESS	X
VOICE LINE	— — — — —
PHONE WALK	— — — — —
UNPAVED WAY	— — — — —
PAVED ROAD	— — — — —
RAILROAD	— — — — —
RAIL LINE	— — — — —
RAILVERT	— — — — —
RAILVERT	— — — — —
POWER POLE	⊙
TELEPHONE POLE	⊙
TELEPHONE	⊙
CONTROL OF ACCESS	— — — — —
PROPERTY LINE	— — — — —
WALKING LINE	— — — — —
TRAFFIC RIGHTS	— — — — —
POINT OF CUT	— — — — —
POINT OF SLOPE	— — — — —

END RELINQUISHMENT I
BEGIN MAINT. AGREE. AREA NO.1
9+53 CL

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

A horizontal scale bar with a black and white pattern. It is labeled "SCALE" and "FT" above the bar. Below the bar, there are tick marks and numbers for 0, 100, and 200.

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
1A	STATE OF VERMONT	5	9 + 45 LT. 7 + 75 LT. 9 + 20 LT. 8 + 80 LT.	10 + 00 CL 9 + 20 LT. 9 + 67 LT. 9 + 53 LT.	0.05 A±		ALL R.T. & I. DITCH (P) (0.05 A±) CULVERT (P) (0.02 A±) SIGHT & SLOPE (P) (0.05 A±)	WD	11-10-83	COLCHESTER	89	108-110	HWY. EASE. US 7 (2346 SF±) (1968 SF±) (FORMERLY; ROBENSTIEN) (1745 SF±) (2070 SF±)
1B			7 + 06 CL	9 + 53 CL TOTAL	0.14 A± 0.19 A±		ALL R.T. & I.						HWY. EASE. IN 9
2	SEVERANCE, MALCOLM F. & GLADYS C.	5	9 + 53 CL 7 + 55 RT. 7 + 75 RT. 9 + 00 RT.	10 + 18 RT. US 7 114 + 38 LT. US 7 114 + 95 LT. US 7 114 + 60 LT.	0.08 A±		ALL R.T. & I. CONST. EASE. (T) (0.05 A±) SLOPE (P) (0.06 A±) SIGHT EASE. (P) (0.04 A±)	WD		COLCHESTER			HWY. EASE. US 7 (3500 SF±) (2230 SF±) (2413 SF±) (1804 SF±)
3A	STATE OF VERMONT	5	10 + 04 LT.	14 + 44 LT.	1.00 A±			WD	11-10-83	COLCHESTER	89	111-112	(FORMERLY; ROBENSTIEN)
3B			9 + 93	10 + 42 RT. TOTAL	0.09 A± 1.09 A±		ALL R.T. & I.						HWY. EASE. US 7 (3955 SF±)
4A	CHETTI, LAWRENCE & AUDREY	5	10 + 42 RT. TH. 7 TRAV. 32 + 00 LT. 12 + 26 RT. 12 + 34 RT.	12 + 90 RT.	0.18 A±		RIGHT TO REMOVE & LANDSCAPE (T) ALL R.T. & I. DRIVE (T)	WD		COLCHESTER			PAVED DRIVE (BY OPTION ONLY) LEACH FIELD 16' PAVED
4B			10 + 11 RT.	10 + 50 RT. TOTAL	0.01 A± 0.19 A±		ALL R.T. & I.						HWY. EASE. US 7 (980 SF±)

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	1, 3, 5, 6	PARCEL #6 ADDED DRIVE AT 21+80 RT. REVISED SLOPE & CONST. EASE. AREAS. CHANGED THE END OF R.O.W. PROJ. FROM 21+55 RT. TO 21+40 LT. PER C.O. #5141	12-11-81	NBB	
2	3	PARCEL #6 GUNELIC ETAL, ADDED EST. CO-ADMIN. & GUARD. OF G.M. GUNELIC TO DETAIL SHEET C.O. #5362	5-6-82	NWJ	
3	3	PARCEL #5 EST. OF SEVERANCE, ADDED EST. CO-EXECS. TO DETAIL SHEET PER C.O. #5371	5-6-82	NWJ	
4	3, 5	PARCEL #6 GUNELIC ETAL, ADDED DRIVE, STA. 19+85 RT. PER REVISED DESIGN PLANS & C.O. #5403	6-10-82	BAM	
5	3, 5	PARCEL #1 ROBENSTIEN, DELETED TAKE & CONST. EASE. (T) ADDED DITCH RT (P) CUL. RT. (P), SIGHT & SLOPE RT (P) ADDED SEPTIC TANK & DRY WELL PER C.O. #5473, #5485	7-27-82	BAM	
6	3, 5	PARCEL #2 SEVERANCE, DELETED TAKING, ADDED CONST. EASE (T), SLOPE (P) & SIGHT EASE. (P) PER C.O. #5474	7-27-82	BAM	
7	5	PARCEL #4 COY, ADDED WELL AT 31+20 LT., ADDED UNUSED TO WELL STA. 31+90 LT. PER C.O. #5778	3-14-83	BAM	
8	3, 5	PARCEL #5 SEVERANCE EST. CHANG CONST. EASE. (T) & SLOPE (T) & DELETED CONST. EASE. (T) & SLOPE (T) PER C.O. #5917	6-28-83	M.W.H.	
9	3, 5	PARCEL #4 COY, ADDED DRIVE RT. (T) STA. 12+34 RT. PER C.O. #5918	6-28-83	M.W.H.	
10	5	PARCEL #1 ROBENSTIEN, ADDED TAKE AREAS & CHANGED TITLE TO WD PER C.O. #5951	7-12-83	J.D.P.	
11	5	PARCEL #2 SEVERANCE, ADDED TAKE AREAS & CHANGED TITLE TO WD PER C.O. #5952	7-12-83	J.D.P.	
12	5	PARCEL #3 ROBENSTIEN, C. ADDED TAKE AREAS & CHANGED TITLE TO WD PER C.O. #5953	7-12-83	J.D.P.	
13	5	PARCEL #4 COY, ADDED TAKE AREAS & CHANGED TITLE TO WD PER C.O. #5954	7-12-83	J.D.P.	
14	5, 6	PARCEL #5 SEVERANCE EST., ADDED TAKE AREA & CHANGED TITLE TO WD PER C.O. #5955	7-12-83	J.D.P.	

BY: NBB DATE 11-6-81
KED BY: JDP DATE 11-6-81

DR. RT. - DRAINAGE RIGHT
DIT. RT. - DITCHING RIGHT
CH. RT. - CHANNEL RIGHT
DRIVE RT. - DRIVE RIGHT
CUL. RT. - CULVERT RIGHT
(D) - DEMOLITION OR REMOVAL
(W) - WATER SOURCES

PRESENT R.O.W.
--- TAKING WITHOUT ACCESS
--- TAKING WITHOUT ACCESS ALONG PROPERTY LINES
--- TAKING WITH ACCESS
(P) PERMANENT EASEMENT
(T) TEMPORARY EASEMENT

LEGEND
----- CONST. EASE. ----- CONST. EASEMENT
----- SR ----- SLOPE RIGHTS
----- P ----- PROPERTY LINE
--- Δ --- TOP OF CUT
--- ○ --- TOE OF SLOPE

APPROVED _____ DATE _____
CHIEF OF PLANS & TITLES

PROJECT COLCHESTER
NO. RS 0285 (5)
SHEET 13 OF 33

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
5	ESTATE OF SEVERANCE, J. HERBERT & JUANITA M. SEVERANCE, MALCOLM F. & SWEENEY, JOYCE S. - CO-EXECUTORS	5,6	12 + 73 LT. 12 + 95 RT. 14 + 00 RT. 15 + 00 LT. 15 + 72 RT. 17 + 35 LT. 19 + 20 LT. 19 + 85 LT.	21 + 40 LT. 15 + 23 RT. 14 + 68 RT. 16 + 25 RT. 17 + 75 LT. 21 + 40 LT. 21 + 35 LT.	1.5 A±		CONST. EASE. (T) (0.03 A±) SLOPE (T) (66 SF±) DITCH & DRAINAGE (P) CONST. EASE. (T) (175 SF±) CONST. EASE. (T) (60 SF±) CONST. EASE. (T) (0.04 A±) SLOPE (T) (0.02 A±)	WD		COLCHESTER			(1500 SF±) (1800 SF±) (700 SF±)
6	DELETED												FORMERLY IRELAND INDUSTRIES INC.
7	GREEN MOUNTAIN POWER CORP.												UTILITY
8	NEW ENGLAND TELEPHONE & TELEGRAPH CO.												UTILITY
9	LAKE CHAMPLAIN CABLE TELEVISION CORP.												UTILITY
	RELINQUISHMENT NO. I	5	7 + 06 CL	9 + 53 CL									T.H. 9
	RELINQUISHMENT NO. II	5,6	10 + 27 CL	21 + 35 CL									T.H. 7
	MAINTENANCE AGREEMENT AREA NO. I	5	9 + 35 CL	10 + 27 CL									U.S. 7

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
15	5,6	PARCEL #6 GUNLIC EST. ADDED TAKE AREA & CHANGED TITLE TO WD PER C.O.#5956	7-12-83	J.D.P.	
16	3,5	Parcel #4 COY, Deleted Const. Easement, RT. Sec. 10+90 RT. & 12+90 RT. Added RT. To Remove (Landscape) (T) Sec. TH 7 Trav. 32+00 LT. Parcel Drive (BY OPTION ONLY) Per Revised Design & C.O.#6013	9-30-83	D.A.M.	LWB
17	3,5	PARCEL No. 4 COY, NAME CHANGE TO CHETTI, LAWRENCE & AUDREY	10-9-86	M.I.R.	LWB
18	4,5,6	PARCEL No. 6 GUNELIC, Change NAME TO GUNELIC, WILLIAM FROM STATION 21+30 RT. TITLE IS GUNELIC, GLENN M. PER C.O. 6797	10-9-86	M.I.R.	LWB
19	4,5	PARCEL No. 6 GUNELIC Deleted ACQUISITION OF 0.17A± R.T. & I. TO T.H. 7. NAME CHANGE TO STATE OF VERMONT PER C.O. 6799	10-20-86	M.I.R.	LWB
20	3,5	PARCEL No. 1 & No. 3 ROBERTSON NAME CHANGE TO STATE OF VT. PER C.O. 6800	10-20-86	M.I.R.	LWB
21	3,4 5,6	PARCEL No. 2B & 5B. DELETE PARCELS. A.T. & I. TO CENTER OF TOWN ROADS. PER C.O. 6808	11-14-86	M.I.R.	ELH
22	4,5,6	Parcel No. 6 Ireland Industries Inc. Title Change from Gunlic Est. To Ireland Industries Inc. per C.O.#6939	5-26-87	A.T.	LWB
23	4,5,6	Parcel No. 6 Deleted, Ireland Industries Inc. from plans per C.O.#7006A MILLERS TO DESIGN TO 2' 8"	8-3-87	A.T.	LWB

DRAWN BY: NBB DATE 11-6-81

CHECKED BY: JDP DATE 11-6-81

DR. RT. - DRAINAGE RIGHT
DIT. RT. - DITCHING RIGHT
CH. RT. - CHANNEL RIGHT
DRIVE RT. - DRIVE RIGHT
CUL. RT. - CULVERT RIGHT
D - DEMOLITION OR REMOVAL
W - WATER SOURCES

PRESENT R.O.W.
--- TAKING WITHOUT ACCESS
--- P --- TAKING WITHOUT ACCESS ALONG PROPERTY LINES
--- TAKING WITH ACCESS
(P) PERMANENT EASEMENT
(T) TEMPORARY EASEMENT

LEGEND

--- CONST. EASE. --- CONST. EASEMENT
--- SR --- SR --- SLOPE RIGHTS
--- P --- P --- PROPERTY LINE
--- Δ --- Δ --- Δ --- TOP OF CUT
--- O --- O --- O --- TOE OF SLOPE

APPROVED _____ DATE _____
CHIEF OF PLANS & TITLES

PROJECT COLCHESTER

NO. RS 0285(5)

SHEET 14 OF 93

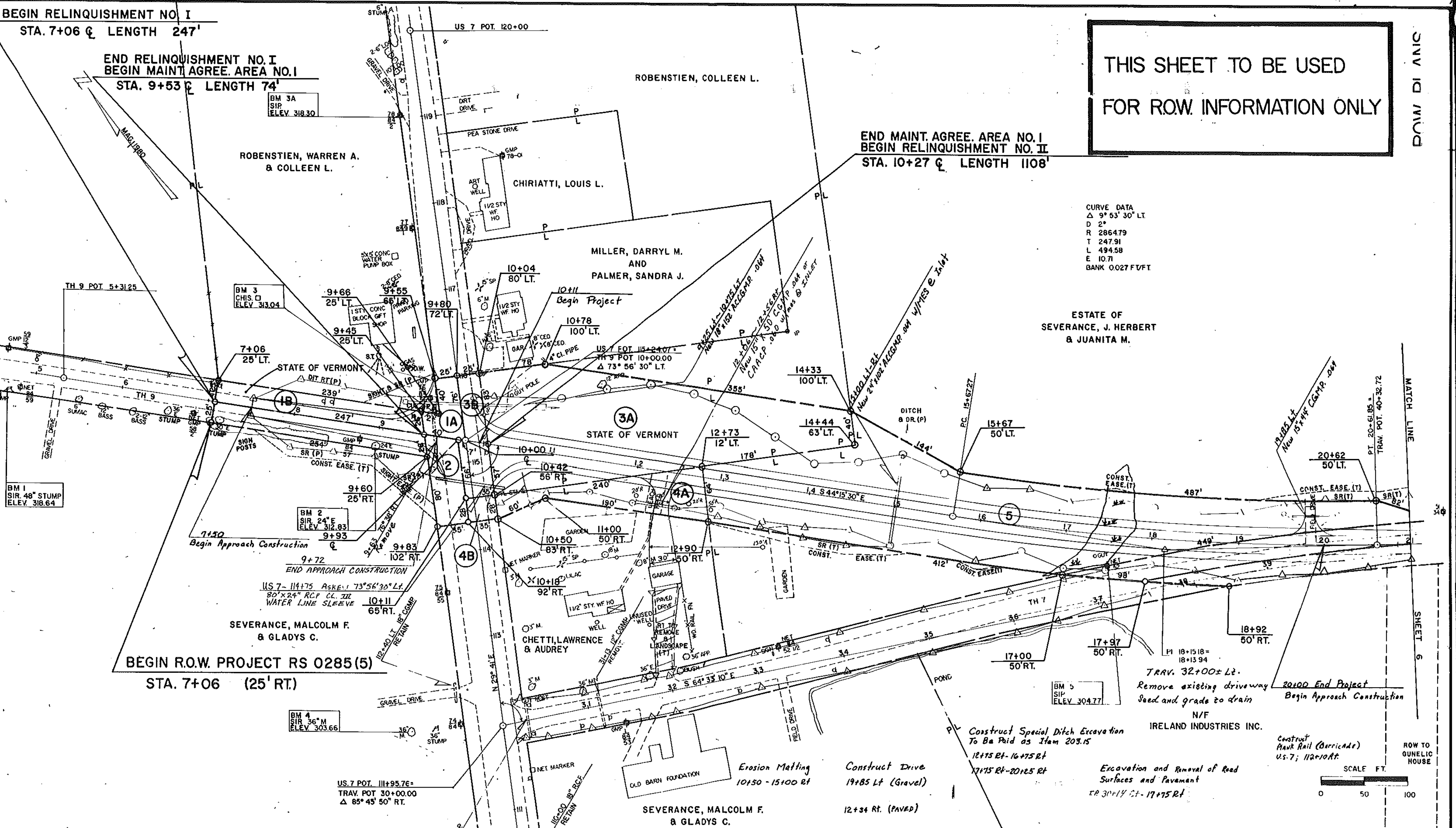
BEGIN RELINQUISHMENT NO. I
STA. 7+06 & LENGTH 247'

END RELINQUISHMENT NO. I
BEGIN MAINT. AGREE. AREA NO. I
STA. 9+53 & LENGTH 74'

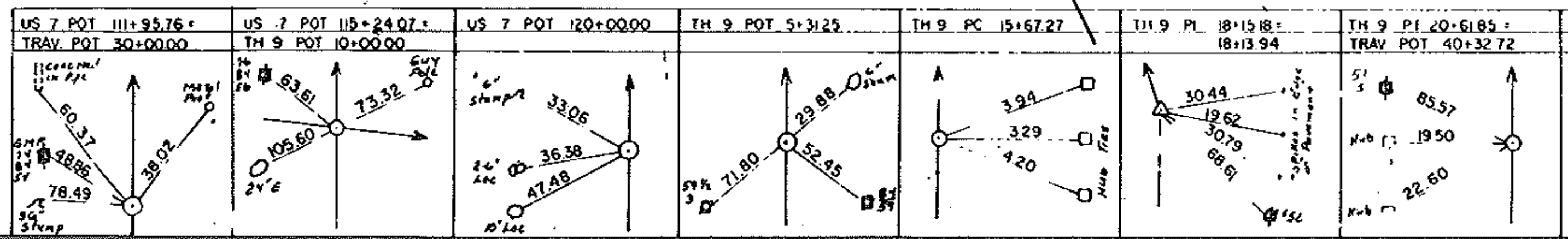
THIS SHEET TO BE USED
FOR ROW. INFORMATION ONLY

END MAINT. AGREE. AREA NO. I
BEGIN RELINQUISHMENT NO. II
STA. 10+27 & LENGTH 1108'

CURVE DATA
Δ 9° 53' 30" LT
D 2°
R 286479
T 247.91
L 494.58
E 10.71
BANK 0.027 FVFT



NGVD 1929
N/A



SURVEYED BY FALL DATE 10/80
DRAWN BY DATE
TRACED BY DATE
COLCHESTER
PROJ. RS NO. 0285 (5)
SHEET 16 OF 93

THIS SHEET TO BE USED
FOR ROW INFORMATION ONLY

ROW INFORMATION

END R.O.W. PROJECT RS 0285(5)
STA. 21+40 LT.

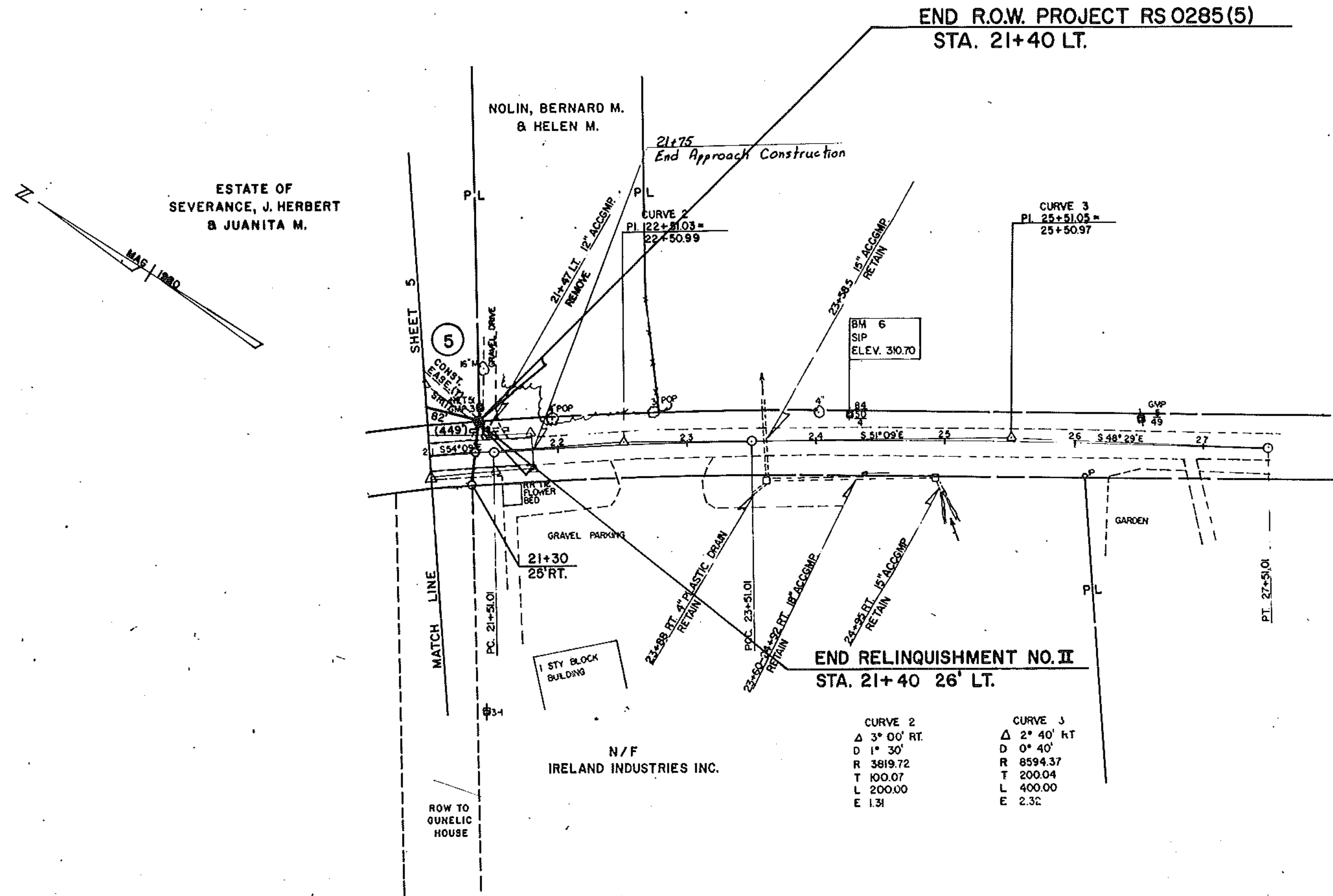
END RELINQUISHMENT NO. II
STA. 21+40 26' LT.

CURVE 2
Δ 3° 00' RT.
D 1° 30'
R 3819.72
T 100.07
L 200.00
E 1.31

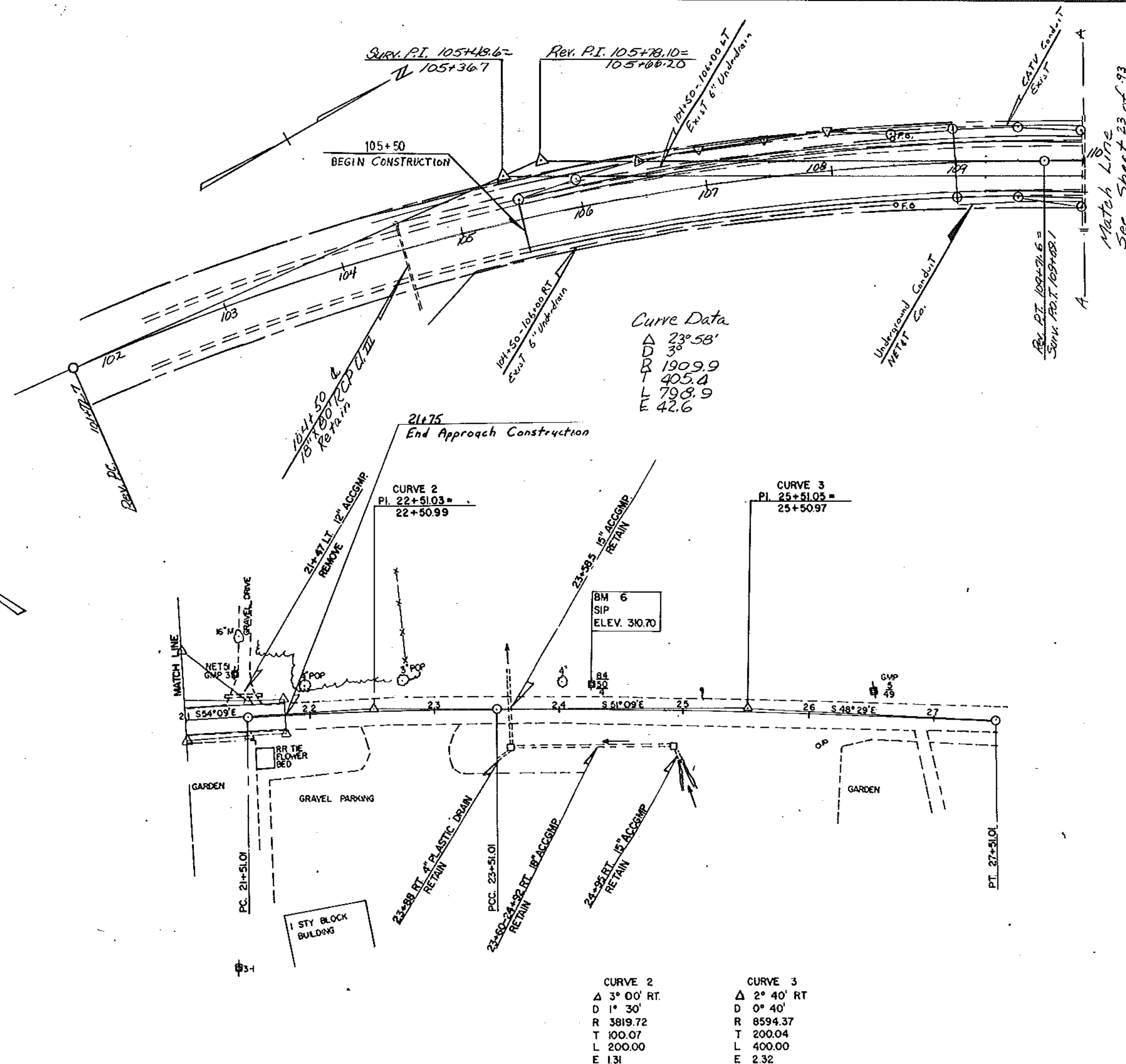
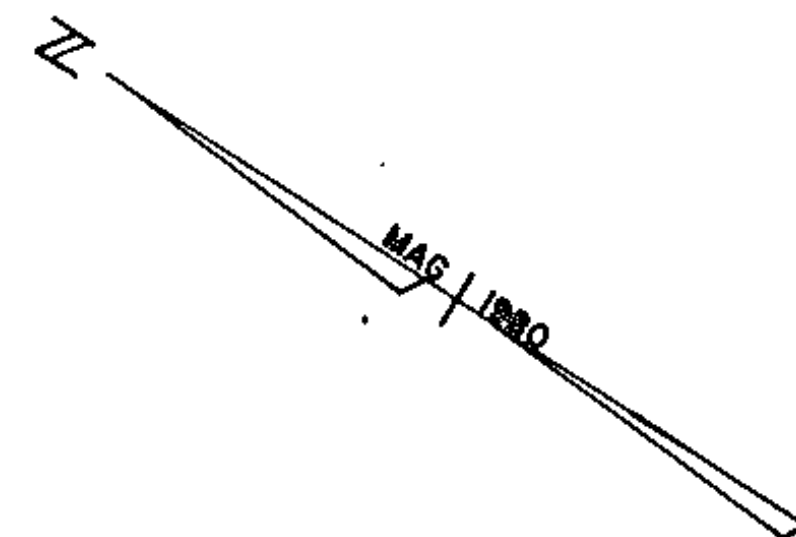
CURVE 3
Δ 2° 40' RT.
D 0° 40'
R 8594.37
T 200.04
L 400.00
E 2.32

SCALE FT
0 50 100

PC 21+51.01	PCC 23+51.01	PT 27+51.01	SURVEYED BY FALL DATE 9/80
DRAWN BY	DATE	DATE	DATE
TRACED BY	DATE	DATE	DATE
COLCHESTER			
PROJ. RS NO. 0285 (5)			
SHEET 16 OF 93			



UM
RTICAL NGVD 1929
HORIZONTAL N/A



Curve Data
 Δ 23° 58'
 D 3°
 R 1909.9
 L 405.4
 T 798.9
 E 42.6

21+75
 End Approach Construction

CURVE 2
 P.I. 22+51.03 = 22+50.99

CURVE 3
 P.I. 25+51.05 = 25+50.97

CURVE 2
 Δ 3° 00' RT.
 D 1° 30'
 R 3819.72
 T 100.07
 L 200.00
 E 131

CURVE 3
 Δ 2° 40' RT.
 D 0° 40'
 R 8594.37
 T 200.04
 L 400.00
 E 2.32

Note: All slope work shall be adjusted as necessary to stay within existing R.O.W., STA 105+50 - 110+00

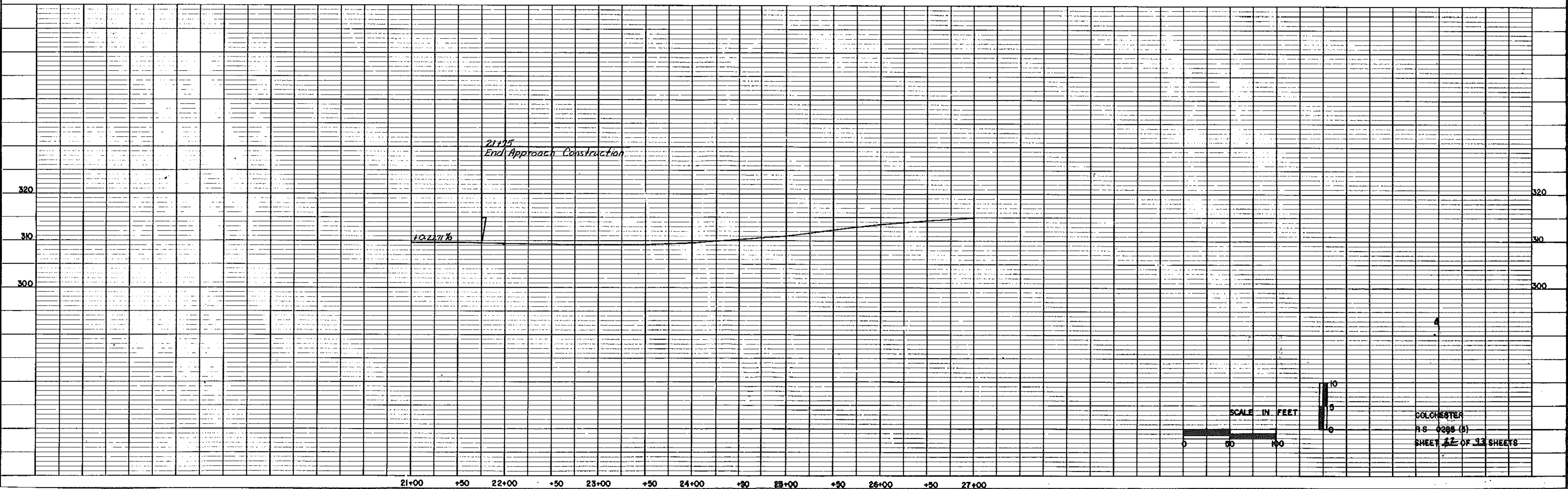
Note: From 105+50 Lt to 115+00 Lt and 109+00 Rt to 115+00 Rt

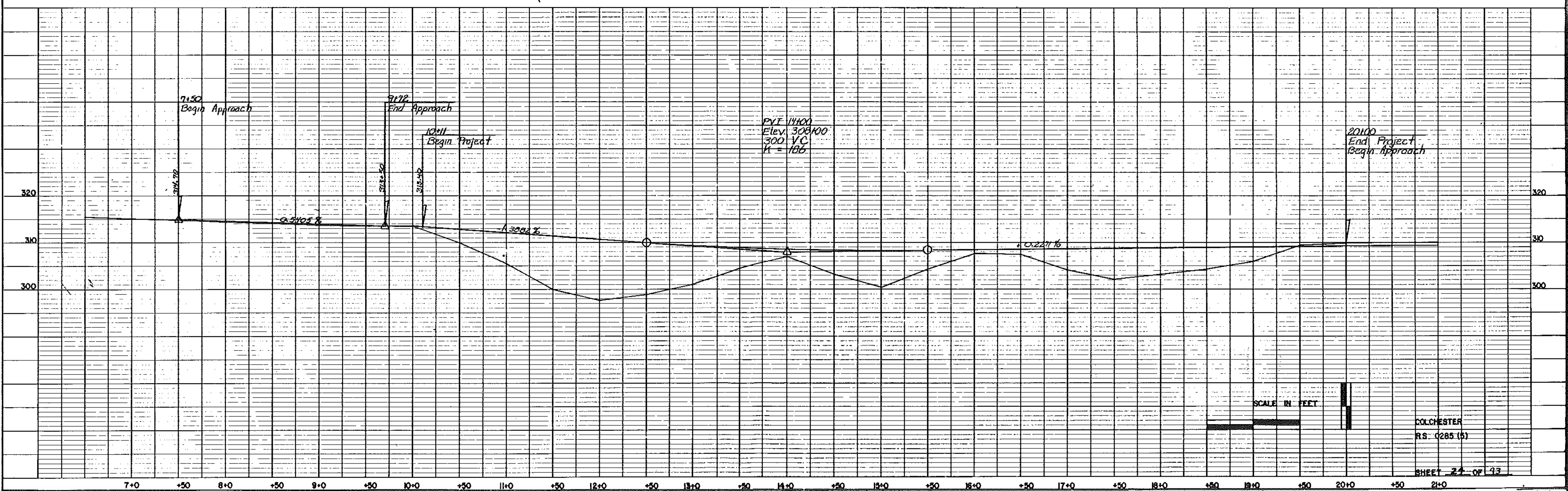
Pavement shall be cut or sawn not ripped

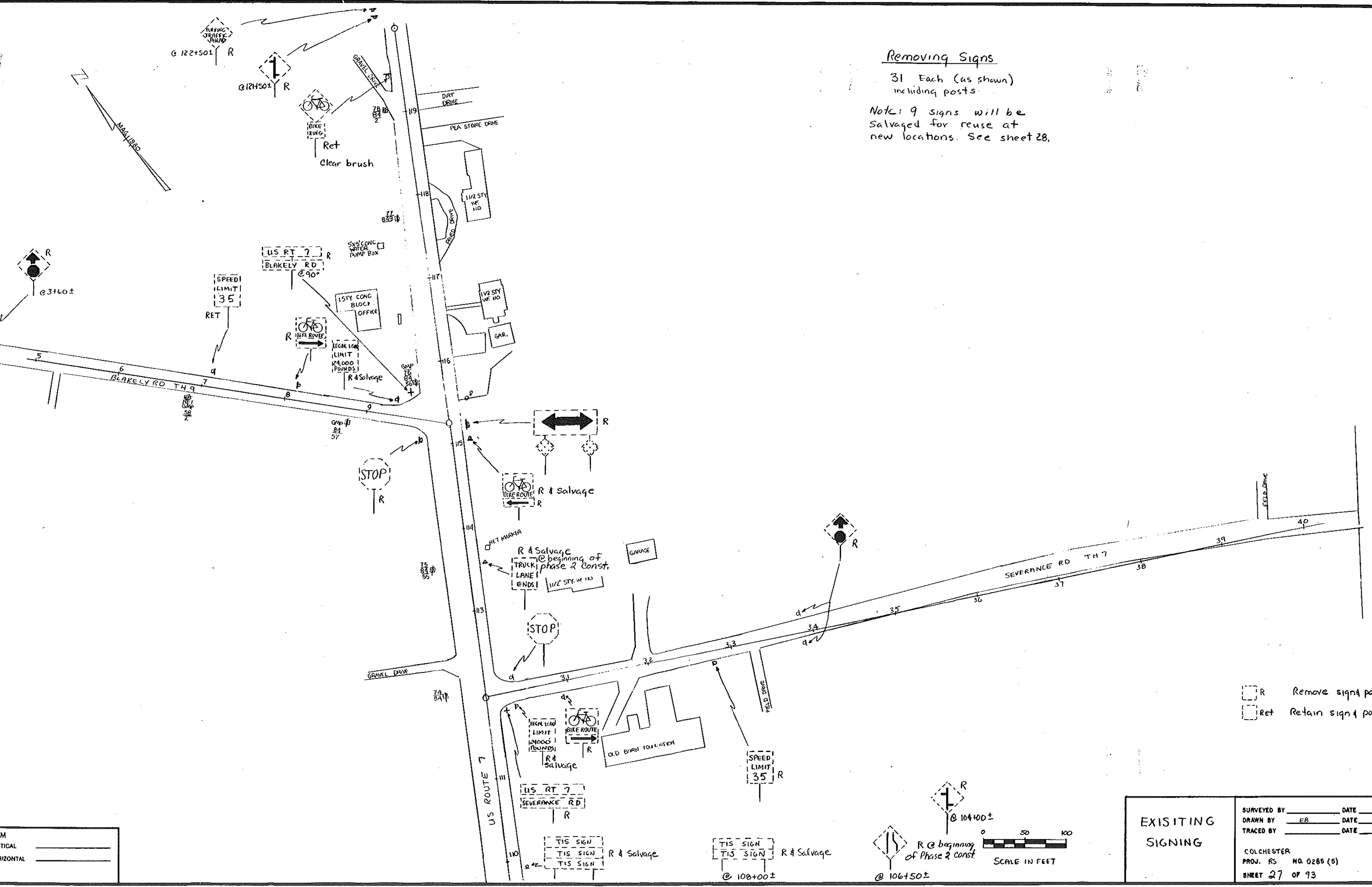
Payment shall be Subsidiary To Common Excavation



PC 21+51.01	PCC 23+51.01	PT 27+51.01	SURVEYED BY FALL DATE 9/80
4" POP 36.49	8" POP 72.90	SPRINKLES IN PAVT. 10.84	DRAWN BY DATE
RR TIES 24.83	5" POP 91.87	16.60	TRACED BY DATE
		101.34	COLCHESTER
			PROJ. RS NO. 0285 (5)
			SHEET 21 OF 13







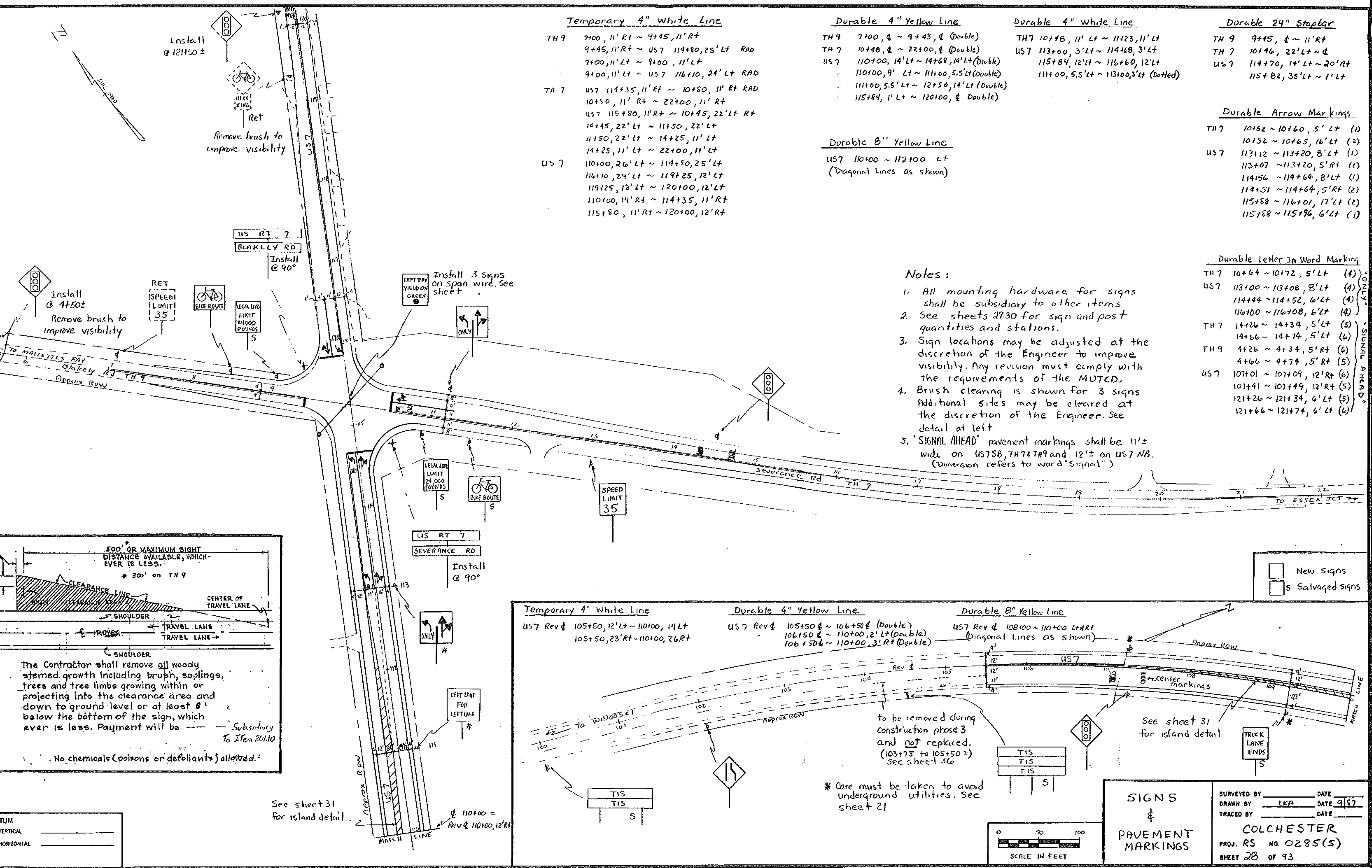
Removing Signs

31 Each (as shown) including posts

Note: 9 signs will be salvaged for reuse at new locations. See sheet 28.

- ☐ R Remove sign post
- ☐ Ret Retain sign post

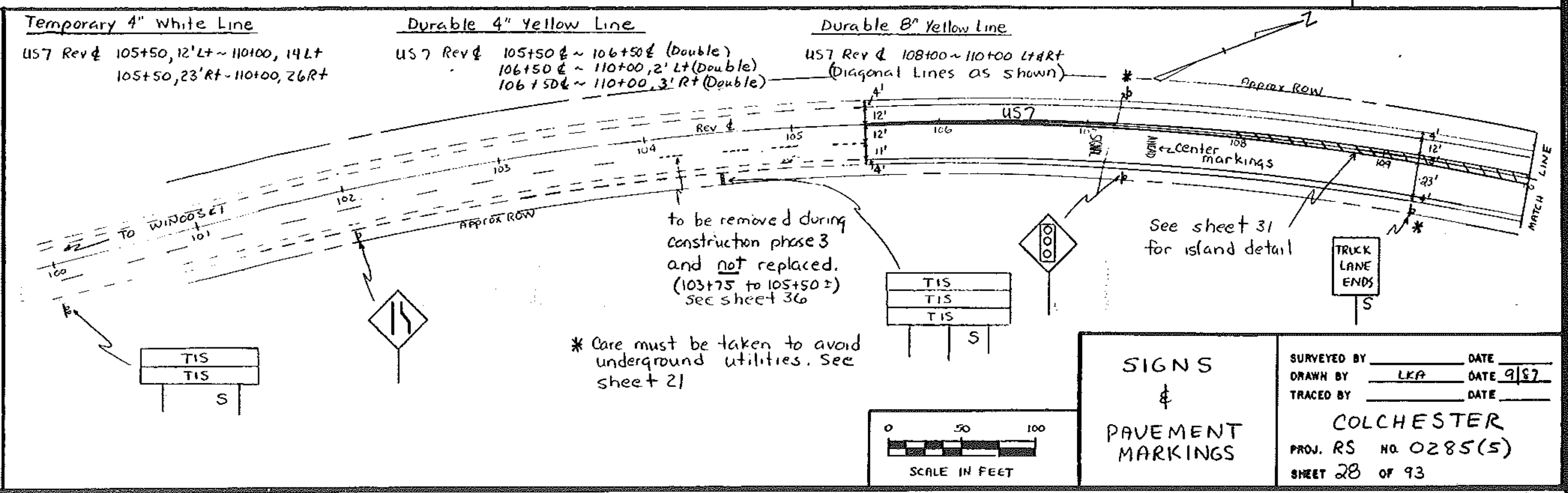
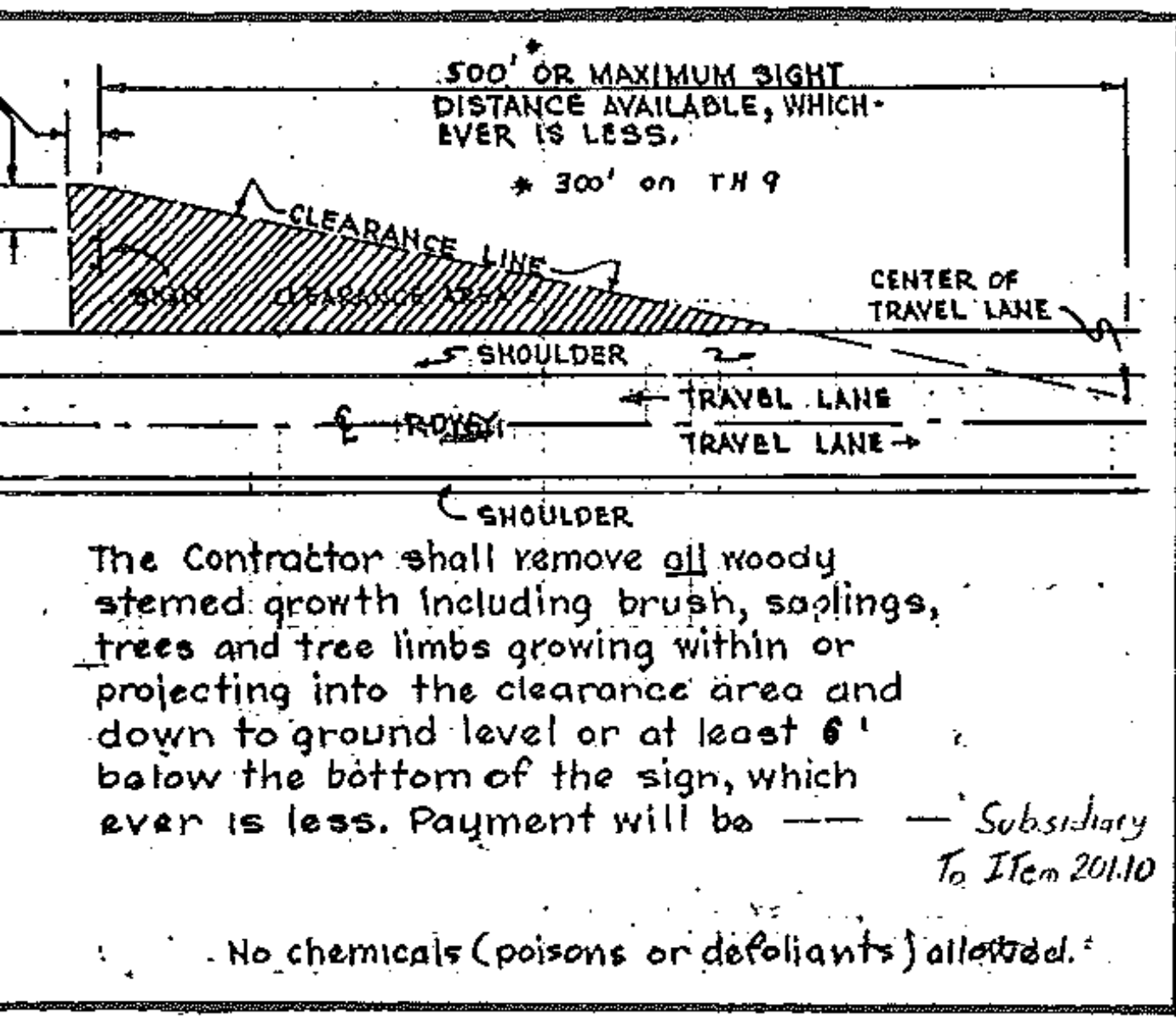
EXISTING SIGNING	SURVEYED BY _____	DATE _____
	DRAWN BY <u>EB</u>	DATE _____
	TRACED BY _____	DATE _____
	COLCHESTER PROJ. RS NO. 0285 (5) SHEET 27 OF 93	



<u>Temporary 4" White Line</u>		<u>Durable 4" Yellow Line</u>		<u>Durable 4" White Line</u>		<u>Durable 24" Stopbar</u>	
TH 9	7+00, 11' Rt ~ 9+45, 11' Rt 9+45, 11' Rt ~ US 7 11+45, 25' Lt RAD 7+00, 11' Lt ~ 9+00, 11' Lt 9+00, 11' Lt ~ US 7 11+6+10, 24' Lt RAD	TH 9	7+00, 4 ~ 9+43, 4 (Double) TH 7 10+48, 4 ~ 22+00, 4 (Double) US 7 110+00, 14' Lt ~ 14+68, 14' Lt (Double) 110+00, 9' Lt ~ 111+00, 5.5' Lt (Double) 111+00, 5.5' Lt ~ 12+50, 14' Lt (Double) 115+84, 1' Lt ~ 120+00, 4 (Double)	TH 7	10+48, 11' Lt ~ 11+23, 11' Lt US 7 113+00, 3' Lt ~ 114+68, 3' Lt 115+84, 12' Lt ~ 116+60, 12' Lt 111+00, 5.5' Lt ~ 113+00, 3' Lt (Dotted)	TH 9	9+45, 4 ~ 11' Rt TH 7 10+46, 22' Lt ~ 4 US 7 114+70, 14' Lt ~ 20' Rt 115+82, 35' Lt ~ 1' Lt
TH 7	US 7 114+35, 11' Rt ~ 10+80, 11' Rt RAD 10+80, 11' Rt ~ 22+00, 11' Rt US 7 115+80, 11' Rt ~ 10+45, 22' Lt Rt 10+45, 22' Lt ~ 11+50, 22' Lt 11+50, 22' Lt ~ 14+25, 11' Lt 14+25, 11' Lt ~ 22+00, 11' Lt	<u>Durable 8" Yellow Line</u> US 7 110+00 ~ 112+00 Lt (Diagonal Lines as shown)		<u>Durable Arrow Markings</u> TH 7 10+52 ~ 10+60, 5' Lt (1) 10+52 ~ 10+65, 16' Lt (2) US 7 113+12 ~ 113+20, 8' Lt (1) 113+07 ~ 113+20, 5' Rt (2) 114+56 ~ 114+64, 8' Lt (1) 114+51 ~ 114+64, 5' Rt (2) 115+88 ~ 116+01, 17' Lt (2) 115+88 ~ 115+96, 6' Lt (1)			
US 7	110+00, 26' Lt ~ 114+80, 25' Lt 116+10, 24' Lt ~ 119+25, 12' Lt 119+25, 12' Lt ~ 120+00, 12' Lt 110+00, 14' Rt ~ 114+35, 11' Rt 115+80, 11' Rt ~ 120+00, 12' Rt						

- Notes:
- All mounting hardware for signs shall be subsidiary to other items
 - See sheets 28-30 for sign and post quantities and stations.
 - Sign locations may be adjusted at the discretion of the Engineer to improve visibility. Any revision must comply with the requirements of the MUTCD.
 - Brush clearing is shown for 3 signs. Additional sites may be cleared at the discretion of the Engineer. See detail at left
 - "SIGNAL AHEAD" pavement markings shall be 11'± wide on US 7 SB, TH 7A TH 9 and 12'± on US 7 NB. (Dimension refers to word "Signal")

Durable Letter In Word Marking	
TH 7	10+64 ~ 10+72, 5' Lt (4)
US 7	113+00 ~ 113+08, 8' Lt (4) 114+44 ~ 114+52, 6' Lt (4) 116+00 ~ 116+08, 6' Lt (4)
TH 7	14+26 ~ 14+34, 5' Lt (5) 14+66 ~ 14+74, 5' Lt (6)
TH 9	4+26 ~ 4+34, 5' Rt (6) 4+66 ~ 4+74, 5' Rt (5)
US 7	107+01 ~ 107+09, 12' Rt (6) 107+41 ~ 107+49, 12' Rt (5) 121+26 ~ 121+34, 6' Lt (5) 121+66 ~ 121+74, 6' Lt (6)



SIGNS & PAVEMENT MARKINGS	SURVEYED BY _____ DATE _____
	DRAWN BY LKA DATE 9/87
	TRACED BY _____ DATE _____
	COLCHESTER
	PROJ. RS NO. 0285(5)
SHEET 28 OF 93	

1986

[illegible]

TRAFFIC SIGN SUMMARY SHEET

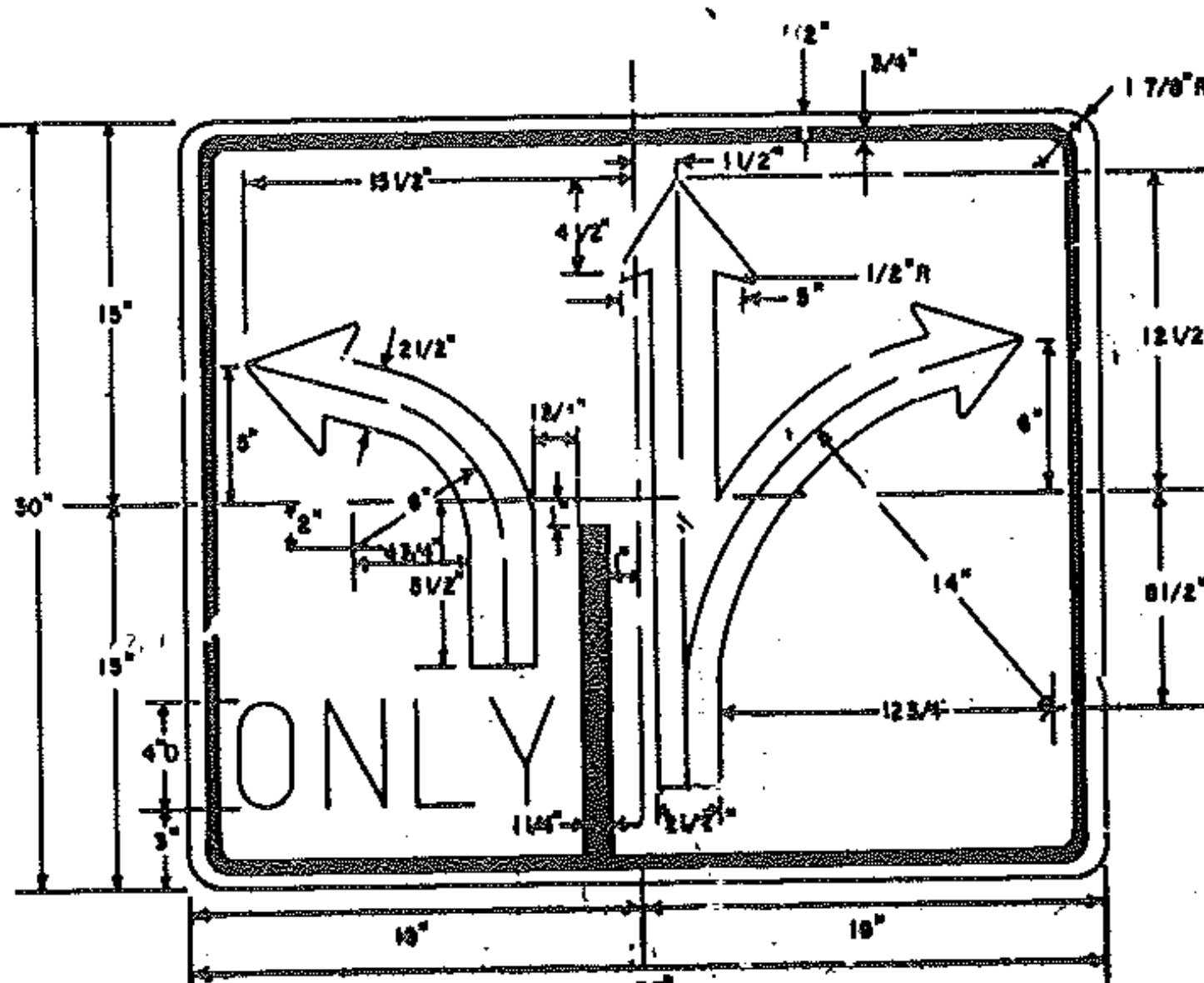
MARKER, LOCATION, NUMBER	SIGN LEGEND	SIGN DIMENSIONS	EXISTING SIGNS			NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS														REMARKS	FOR SIGN DETAIL SHEET		
			TO BE SALV.	REMOVE	RETAIN	'A'	'B'	SALV. SIGN	SALV. T.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM				TUBULAR STEEL				W SHAPED STEEL			FTG. SIZE	PLAN SHEET NUMBER	STD. SHEET NUMBER
															2.0	2.5	3.0	3.0"Ø	3.0"□	4.0"Ø	4.0"ØM.	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT				
9 50 Rt.		36"x36"				9.0							1			X														E-152	
50 Lt.		36"x36"				9.0							1			X														E-152	
50 Lt.		24"x18"				3.0							1		X													30			
5 Lt.		24"x30"						1					1		X																
47 90 Rt.		24"x30"						1					1		X																
23 Lt.		36"x30"				7.5							1		X													30			
50 Rt.		24"x18"						1					1		X																
00 Rt.		24"x30"				5.0							1		X															E-142	
50 Lt.		36"x36"				9.0							1			X														E-152	
TOTALS																															
POST LENGTHS ARE TO BE DETERMINED IN THE POST SIZES ARE COMPUTED BASED ON INFORMATION HED ON THE STANDARD SHEETS AND THE DESIGN NY'S 'SIGN POST DESIGN MANUAL'.																															

POST LENGTHS ARE TO BE DETERMINED IN THE POST SIZES ARE COMPUTED BASED ON INFORMATION ON THE STANDARD SHEETS AND THE DESIGN BY'S 'SIGN POST DESIGN MANUAL'.

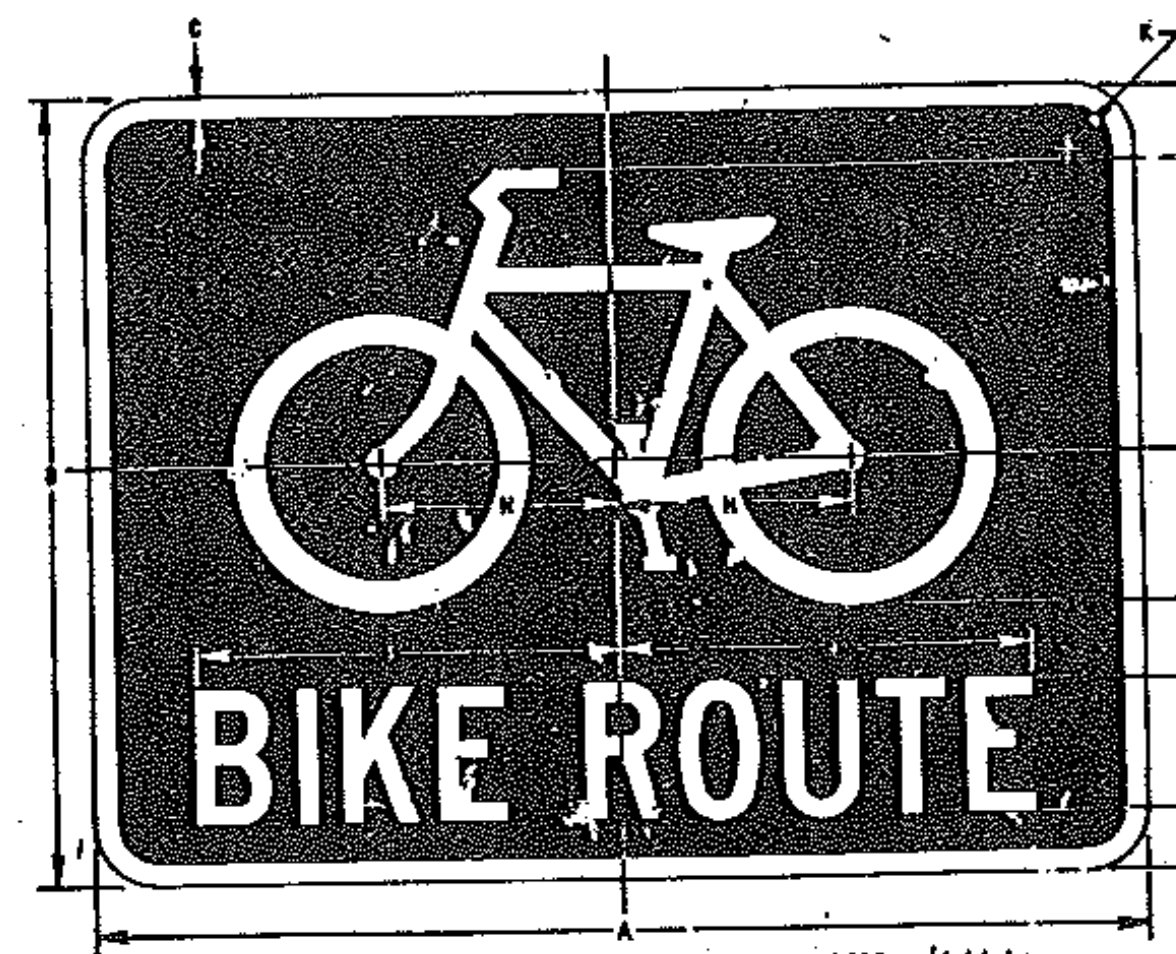
TRAFFIC ITEM SUMMARY

ITEM NO.	ITEM	UNIT	QUANTITY	RNDG.	TOTAL
31. (MOD)	Thinning & Trimming	EA	3	-	3
10	Uniformed Traffic Officer	HR	40.57	-	40.57
10	Traffic Control	LS	1	-	1
10.30	Durable 4" White Line	LF	386	4	390
6.31	Durable 4" Yellow Line	LF	6658	2	6660
16.35	Durable 8" Yellow	LF	142	3	145
46.40	Durable 24" Stopbar	LF	101	4	105
46.42	Durable Arrow Marking	EA	12	-	12
46.44	Durable Letter in Word Marking	EA	60	-	60
46.50	Temporary 4" White Line	LF	5775	25	5800
46.50 (MOD)	Temporary 4" White Line	LF	600	-	600
46.51	Temporary 4" Yellow Line	LF	9040	60	9100
46.51 (MOD)	Temporary 4" Yellow Line	LF	1600	-	1600
46.60	Temporary 24" Stopbar	LF	200	-	200
46.80	Removal of Existing Pavement Marking	SF	1187	13	1200
75.20	Traffic Signs, Type A	SF	117.1	2.9	120
75.30	Flanged Channel Sign Posts	LB	800	-	800
75.50	Removing Signs	EA	31	-	31
75.60	Erecting Salvaged Signs	EA	4	-	4
78.15	Traffic Control Signal System	EA	1	-	1
78.21	Electrical Conduit (1 1/2")	LF	75	-	75
78.22	Vehicle Loop Detector	LF	425	-	425
80.20 (MOD)	Travel Info Signs (Non-Part Fed Funds)	SF	40	-	40

NOTES AND DETAILS

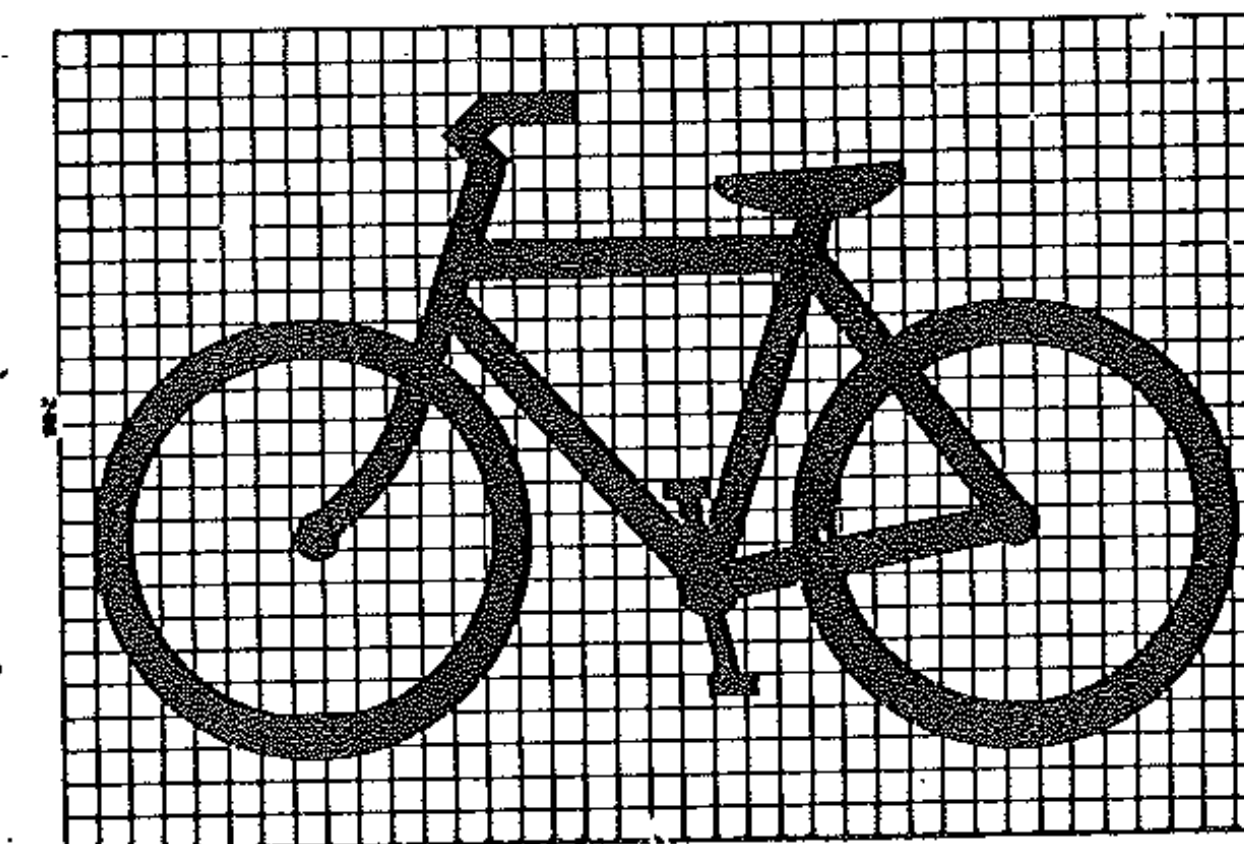


LEGEND - BLACK (NON REFLECTIVE)
BACKGROUND - WHITE (REFLECTIVE)



DIMENSIONS (INCH)	COLORS										
	A	B	C	D	E	F	G	H	I	J	K
STD. & DRG.	24	18	12	1 1/2	1 1/2	1 1/2	3/4	1 1/4	1 1/2	1 1/2	1 1/2

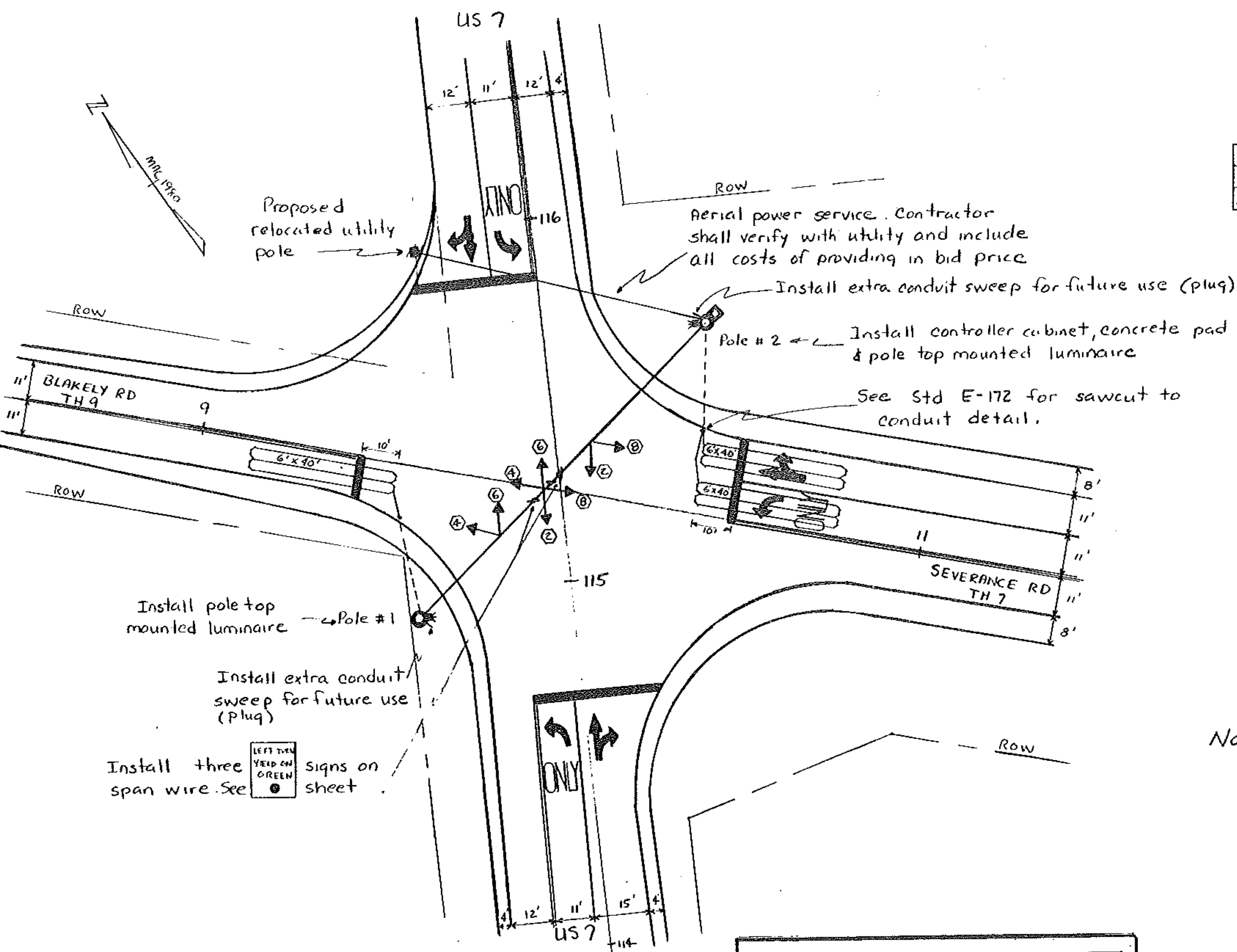
LEGEND - WHITE (REFL)
BACKGROUND - GREEN



See Std. E-150 for materials

TRAFFIC SIGN
SUMMARY SHEET

PREPARED BY LKA DATE 10/87
CHECKED BY _____ DATE _____
DESIGN SUPERVISOR _____ DATE _____
PROJ. COLCHESTER
RS 0285(5)
TRAFFIC SHEET NO. _____ OF _____
SHEET 30 OF 13 SHEETS



AM	OFF	PM
15	30	27
267	110	144
339	120	143

AM	OFF	PM
15	20	41
144	80	232
139	45	44

AM	OFF	PM
91	87	266
78	155	392
38	87	122

1988 "Average Weekday" Traffic

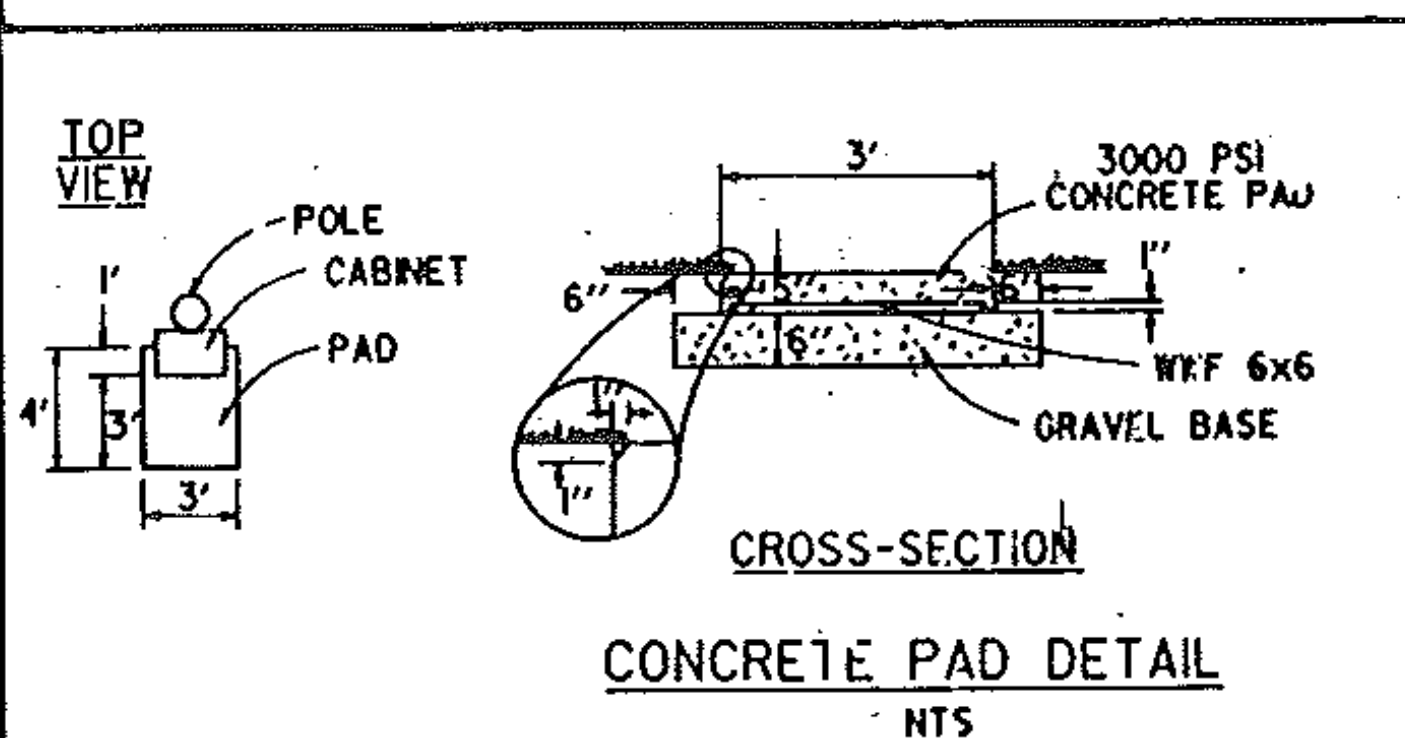
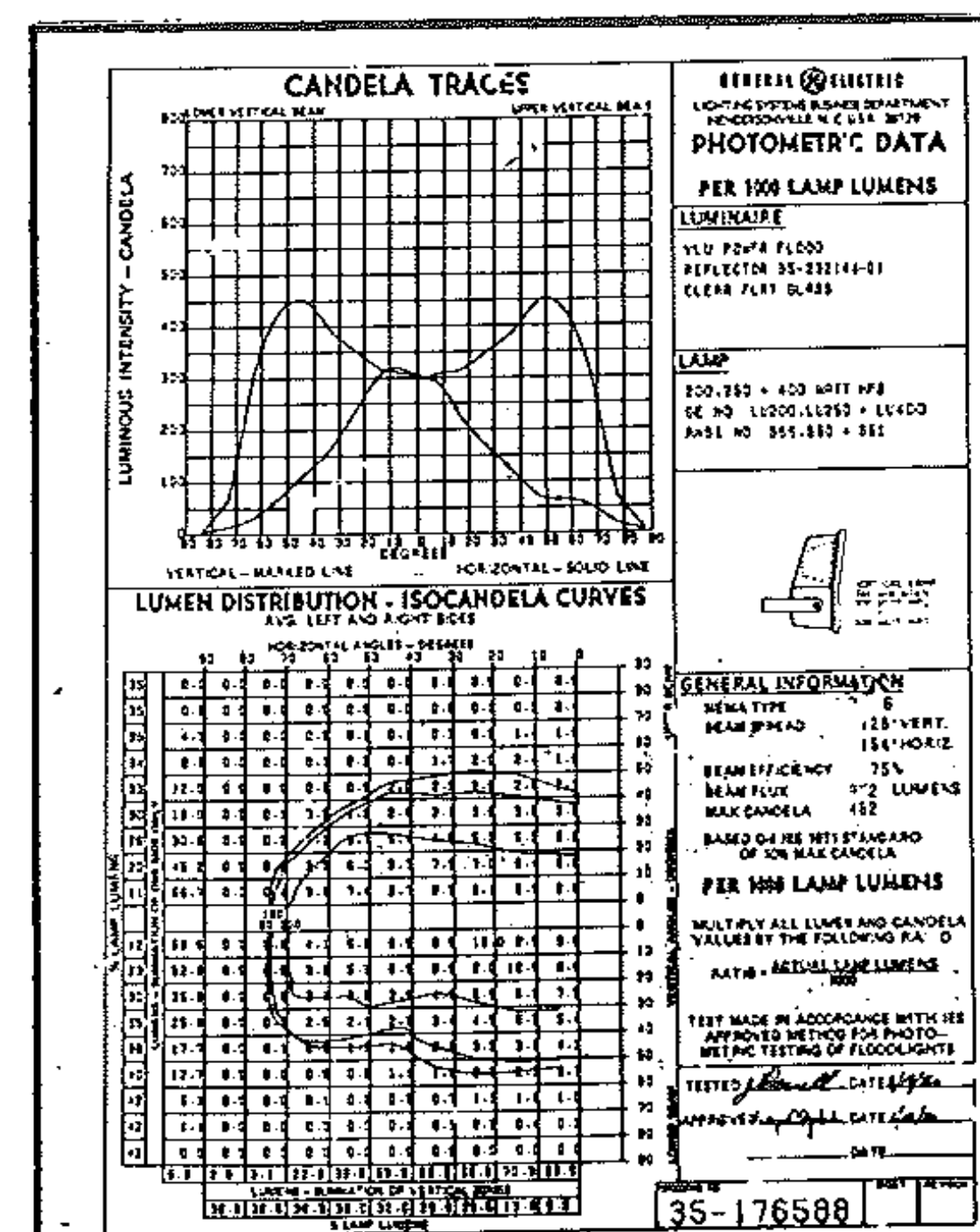
		PHASE A (DWELL)				PHASE B			
		CLEAR TO:				CLEAR TO:			
		R/W	ΦB			R/W	ΦA		
AM PEAK	INITIAL VEHICLE	-	-	-	-	8	-	-	-
	MINIMUM	18	4	2	10	10	4	2	18
	MAX 1	18	4	2	10	35	4	2	18
	MAX 2	-	-	-	-	-	-	-	-
OFF PEAK	INITIAL VEHICLE	-	-	-	-	8	-	-	-
	MINIMUM	20	4	2	-	10	4	2	-
	MAX 1	20	4	2	-	18	4	2	-
	MAX 2	-	-	-	-	-	-	-	-
PM PEAK	INITIAL VEHICLE	-	-	-	-	8	-	-	-
	MINIMUM	22	4	2	10	10	4	2	22
	MAX 1	22	4	2	10	16	4	2	22
	MAX 2	-	-	-	-	-	-	-	-
FACE 2	4	G	Y	R	R	R	R	G	
	6	R	R	R	G	G	Y	R	R
	8	G	Y	R	R	R	R	G	
		R	R	R	G	G	Y	R	R

* Max 2 for future use

Notes:

- The contractor shall notify the utility and have them remove the existing mercury luminaires (2). The Blakely Rd intersection shall be lit at all times. The existing Severance Rd intersection shall be lit until traffic is switched to the new location. If the existing lights are removed prior to installation of the new ones, temporary lighting will be required. Payment for temporary lighting, if necessary, & removals shall be subsidiary to 678.15.
- All new street lighting shall be considered part of 678.15. However, all applicable sections in 679* of the Standard Specifications, General Special Provisions, etc. shall be part of this contract.
- Each loop shall have its own delay call amplifier.

* APPLICABLE SECTIONS: 679.06 thru 679.09 INCLUSIVE PLUS 753.02 & 753.03.



WWF = woven wire fabric

EXISTING	NEW	LEGEND
□	■	UTILITY POLE
○	●	LUMINAIRE (POLE TOP)
○	●	WOOD POLE
○	●	STRAW POLE
○	●	CONTROLLER CABINET
○	●	PULL BOX / JUNCTION BOX
○	●	SIGNAL HEAD
○	●	CONDUIT
○	●	VEHICLE LOOPS
○	●	SIGNS

TRAFFIC
SIGNAL
DETAILS

SURVEYED BY _____ DATE _____
DRAWN BY LKA DATE 9/87
TRACED BY _____ DATE _____
COLCHESTER
PROJ. RS NO. 0285 (5)
SHEET 32 OF 93

0 20 40
SCALE IN FEET

TRAFFIC SIGNAL NOTES

A. NEW EQUIPMENT

1. ALL SIGNAL HEADS SHALL HAVE 12" POLYCARBONATE SECTIONS. THE HOUSING SHALL BE FEDERAL YELLOW WITH BLACK DOOR AND VISORS. BACKPLATES ARE REQUIRED ON EAST AND WEST FACING HEADS. BACKPLATES SHALL BE LOUVERED AND HAVE A FLAT BLACK FINISH. DISCONNECT HANGERS SHALL HAVE NON-ALUMINUM BALANCE ADJUSTER FITTINGS.

2. TRAFFIC SIGNAL CONTROLLER & CABINET

EACH UNIT SHALL BE A VEHICLE, AND WHERE APPLICABLE, PEDESTRIAN ACTUATED SOLID STATE CONTROLLER CAPABLE OF PRODUCING THE TIMING AND COORDINATION AS SHOWN ON THE PLANS. ALL CONTROLLERS SHALL HAVE A MINIMUM OF 4 PHASES. EACH PHASE (USED OR UNUSED) SHALL HAVE A LOAD SWITCH AND ALL NECESSARY FLASH TRANSFER RELAYS. EACH INSTALLATION SHALL INCLUDE TIME CLOCKS WITH BATTERY BACKUP, 6 CHANNEL CONFLICT MONITOR WITH STOP TIMING FUNCTION, LED DISPLAY LOAD SWITCHES (INPUT SIDE) REMOTE FLASHER, VEHICLE DETECTOR AMPLIFIERS, UNIFORM CODE FLASH UNIT (PER M.U.T.C.D.), RADIO INTERFERENCE FILTERS, SURGE PROTECTION, LAMP RECEPTACLE AND CONVENIENCE OUTLET WITH GROUND FAULT INTERRUPTION. ALL CONTROLLERS SHALL HAVE DUAL MAXIMUM CAPABILITIES, TIME BASE COORDINATORS SHALL PROVIDE FOUR CYCLE LENGTHS WITH MULTIPLE PROGRAMS PER CYCLE. EACH SYSTEM SHALL BE POLE MOUNTED IN A PRE-WIRED CABINET WITH A POLICE DOOR HAVING STANDARD SWITCHES (MAIN ON/OFF, SIGNAL ON/OFF AND FLASH). THERE SHALL BE A WATERPROOF PLASTIC ENVELOPE ATTACHED TO THE CABINET INTERIOR FOR STORAGE OF THE CONTROLLER MANUAL AND PLAN SHEETS. ALL CONTROLLERS SHALL BE MODULAR BY PHASE WITH THUMB WHEEL ENTRY. KEYBOARD ENTRY SHALL NOT BE ALLOWED.

THE CONTROLLERS/TBC SHALL BE SHIPPED FROM THE MANUFACTURER PRESET AND A REPRESENTATIVE OF THE MANUFACTURER SHALL BE ON THE PROJECT SITE FOR TURN ON OF THE UNITS. IN ADDITION TO EQUIPMENT FURNISHED TO PROVIDE A FUNCTIONAL SIGNAL SYSTEM, THE CONTRACTOR SHALL SUPPLY THE FOLLOWING SPARE PARTS: ONE LOAD SWITCH, ONE PHASE MODULE AND ONE TRANSFER RELAY PER INTERSECTION. THIS EQUIPMENT MAY BE USED DURING THE CONSTRUCTION PERIOD TO REPLACE MALFUNCTIONING EQUIPMENT BUT MUST BE REPLACED OR MAINTAINED IN THE CABINET PRIOR TO COMPLETION. THE CONTROLLER CABINET(S) SHALL HAVE A POLISHED ALUMINUM NATURAL FINISH AND BE PROVIDED WITH A #2 LOCK, A PADLOCK* AND A STANDARD POLICE DOOR LOCK. EACH LOCK SHALL HAVE 2 KEYS. EACH CABINET SHALL INCLUDE A 120" - 170" FAN/THERMOSTAT. THE CABINET DOOR SHALL BE SUPPLIED WITH TEST SWITCHES FOR EACH PHASE.

- * USE A MASTER PADLOCK WITH A #3220 KEY.

3. ALL NEW EQUIPMENT SHALL MEET OR EXCEED NEMA STANDARDS AND IMSA OR ITE SPECIFICATIONS, WHERE APPLICABLE.

4. THE ELECTRIC CABLE SHALL BE LASHED ON THE SPAN WIRE.

5. STRANDED WIRE SHALL BE USED FOR ALL UNSUPPORTED AND SPAN WIRE SUPPORTED WIRE.

6. A MAIN DISCONNECT BREAKER SHALL BE INSTALLED IN A RAIN TIGHT LOCKED CABINET ON THE SIDE OF THE CABINET BELOW THE METER SOCKET.

7. STRAIN POLE DIAMETER, HEIGHT, YIELD STRENGTH AND GAGE SHALL BE STAMPED ON THE BASE PLATES OR ON AN ATTACHED METAL TAG. SEE SHEET 34 FOR STRAIN POLE DETAILS.

B. SIGNAL OPERATION

1. SIGNAL TIMING SHOWN ON THE PLANS MAY REQUIRE FINE-TUNING IN THE FIELD BASED ON TRAFFIC OBSERVATION.
2. NEW TRAFFIC SIGNAL(S) SHALL BE OPERATED IN THE FLASH MODE FOR A MINIMUM OF 24 HOURS PRIOR TO BEING PUT INTO FULL OPERATION. *FULL OPERATION SHALL NOT BEGIN EXCEPT IN THE PRESENCE OF THE TRAFFIC SAFETY ENG. OR HIS DESIGNATED REPRESENTATIVE.*
3. THE TRAFFIC SIGNALS SHALL NOT OPERATE WITHOUT THE PAVEMENT MARKINGS AND SIGNAL RELATED SIGNING IN PLACE.
4. ALL SIGNALS SHALL DWELL ON US 7 (THRU).

C. TRAFFIC SIGNAL CONDUIT

1. ALL UNDERGROUND TRAFFIC SIGNAL CONDUIT SHALL BE NON-METALLIC, ALL EXPOSED CONDUIT (POLE RISERS) SHALL BE GALVANIZED RIGID METAL.
2. MINIMUM CONDUIT SIZES SHALL BE,
A) 1-1/2" FOR LOOP LEAD-INS
B) 2" FOR ALL OTHERS
SEE CHART ON STD E-172 FOR DESIGN VALUES

D. VEHICLE LOOP DETECTORS - SEE STD E-172

E. STREET LIGHTING

BOTH POLES SHALL HAVE A 200 WATT HIGH PRESSURE SODIUM LUMINAIRE. THE LUMINAIRE SHALL BE DESIGNED FOR STREET LIGHTING AND THE INDICATED LIGHT DISTRIBUTION. IT SHALL INCLUDE AN ALUMINUM HOUSING WITH EASY ACCESS TO THE BALLAST ASSEMBLY, PHOTO-ELECTRIC CONTROL, FILTERED OPTICAL ASSEMBLY AND REGULATOR BALLAST FOR 120 VOLT LAMPS. THE BALLAST SHALL BE MATCHED TO ITS STARTING CIRCUIT. WIRING SHALL BE NEAT, BUNDLED AND KEPT AWAY FROM EXCESS HEAT. THE INSTALLED LUMINAIRE LIGHT UTILIZATION AND MINIMUM FOOTCANDLES SHALL BE AT LEAST AS GREAT AS ON THE INDICATED PHOTOMETRIC DATA SHEET. THE LUMINAIRE SHALL BE INSTALLED AT 90° TO THE ROADWAY CENTERLINE AND AIMED AT A POINT 50 FEET +/- FROM THE BASE OF THE STRAIN POLE. IT SHALL BE A POLE TOP MOUNTED FIXTURE. SEE SHEET 32 FOR THE DESIGN PHOTOMETRIC.

F. GENERAL

1. ALL ELECTRICAL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF THE STATE ELECTRICAL INSPECTOR. ALL WORK MUST MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.
2. AFTER PROJECT ACCEPTANCE, THE TRAFFIC SIGNAL INSTALLATION(S) SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE STATE OF VERMONT.
3. THE CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE SIGNAL AND STREET LIGHTING EQUIPMENT. THE METER SOCKET SHALL BE BE INSTALLED ON THE SIDE OF THE CONTROLLER CABINET. THE ROUTING OF POWER TO THE INTERSECTION SHALL BE SUCH THAT THE UTILITY COMPANY HAS FULL RESPONSIBILITY FROM THE SOURCE TO THE WEATHERHEAD AND THE STATE SHALL MAINTAIN FROM THAT POINT THROUGH THE SIGNAL. NO INTERVENING OWNERSHIP / RESPONSIBILITY SHALL BE ALLOWED.
4. A METAL PLAQUE LISTING OWNERSHIP AND EMERGENCY PHONE NUMBERS SHALL BE ATTACHED TO THE OUTSIDE OF THE CONTROLLER CABINET. SEE DETAIL AT RIGHT. COST OF THE PLAQUE SHALL BE SUBSIDIARY TO 678.15.

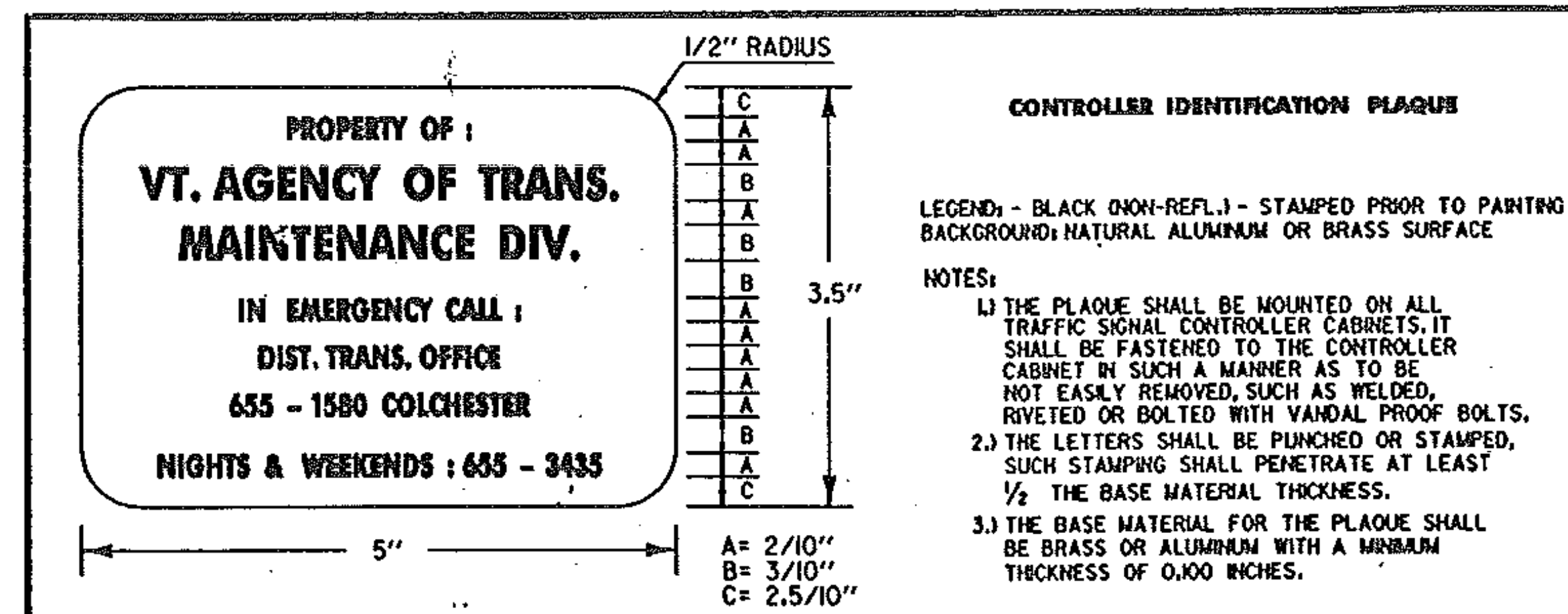
LIST OF MAJOR EQUIPMENT ITEM 678

EQUIPMENT	US 7 BLAKELY RD. & SEVERANCE RD.
STRAIN POLES	2 SEE SHEET --
NEW 12' TRAFFIC SIGNAL HEADS W/TUNNEL VISORS, DISCONNECT HANGERS & MOUNTING HARDWARE	
A TWO-WAY 3 SEC.	2
B FOUR-WAY 3 SEC.	1
BACKPLATES/ LOUVERS	4
CONTROLLER/TBC	1
CONDUIT	11/2' 75 2' --
VEHICLE LOOP DETECTORS *	425
LUMINAIRES	2

THE QUANTITIES LISTED TO THE LEFT ARE APPROXIMATE AND FURNISHED FOR INFORMATION ONLY. MISCELLANEOUS (UNLISTED) WIRE, CABLE, HARDWARE ETC. ARE REQUIRED TO PROVIDE FOR FUNCTIONING SIGNAL SYSTEMS.

* THE QUANTITY LISTED IS FOR SAWCUT ONLY. LEAD-IN WIRES AND/OR SHIELDED CABLE QUANTITIES FROM THE EDGE OF PAVEMENT OR CURB TO THE CONTROLLERS ARE NOT INCLUDED IN THE TOTAL.

VEHICLE DETECTOR LOOP TEST RESULTS		BLAKELY RD. & SEVERANCE RD.		
		BLAKELY RD. CONT.	SEVERANCE RD. CONT.	TOTAL CONT.
INDUCTANCE (uh)	CALCULATED	390	350	348
	MEASURED			N/A
LEAKAGE TO GROUND MΩ				
LOOP RESISTANCE Ω	CALCULATED	2.38	1.39	1.33
	MEASURED			N/A
SEE STD E-172 FOR NOTES ON LOOP TESTING				
ALL LOOPS SHALL BE TWO TURNS AND ALL CONNECTIONS SHALL BE PARALLEL				



SUBMITTAL OF SHOP DRAWINGS

1. THE MANUFACTURER SHALL SUBMIT, FOR APPROVAL, SHOP DRAWINGS FOR TRAFFIC SIGNAL EQUIPMENT. THE SUBMITTAL SHALL CONTAIN AT A MINIMUM THE FOLLOWING INFORMATION.

A) TRAFFIC SIGNAL CONTROLLER

TYPE OF CONTROLLER, MANUFACTURER, MODEL, NUMBER OF PHASES AND FUNCTIONS, ASSURANCE OF CONFORMANCE TO THE LATEST NEMA STANDARDS, BENCH TESTING (MINIMUM OF 7 DAYS) WILL BE REQUIRED. COPIES OF THE TEST RESULTS SHALL BE SUBMITTED AS DISCUSSED IN THE STANDARD SPECS SECTION 752.06. THE TEST RESULTS SHALL CONTAIN THE BEGIN AND END TIME AND DATE, ALL CONTROLLER AND TIME-BASED COORDINATOR SETTINGS USED, EQUIPMENT SERIAL NUMBERS, SIGNATURE OF THE PERSON PERFORMING THE TEST AND SIGNATURE OF A WITNESS WHO SHALL BE EITHER A REGISTERED ELECTRICAL ENGINEER OR A LICENSED MASTER ELECTRICIAN.

B) TRAFFIC SIGNAL HEADS

SIZE, MANUFACTURER, MODEL, LAMP WATTAGE, OPTICS, WIRING, HOUSING (MATERIAL AND COLOR) VISORS AND BACK PLATES, IF REQUIRED. THE SIGNAL HEADS SHALL MEET THE LATEST ITE STANDARDS.

C) CONTROLLER CABINET

SIZE, MANUFACTURER, MODEL, ACCESSORIES, MATERIALS, AND FINISH.

D) AUXILIARY EQUIPMENT (FLASHERS), VEHICLE DETECTOR(S), CONFLICT MONITOR, CLOCK(S), ETC.).

MANUFACTURER, MODEL, FUNCTIONS, ASSURANCE OF CONFORMANCE TO THE LATEST NEMA STANDARDS, WHERE APPLICABLE.

E) STRAIN POLES AND PEDESTAL POSTS

1. DIMENSIONS- POLE/POST HEIGHT, SPAN WIRE ATTACHMENT HEIGHT, POLE/POST DIAMETER (TOP AND BOTTOM), POLE GAUGE, HANDHOLE (SIZE AND LOCATION), BASE PLATE, BOLT CIRCLE, ANCHOR BOLT SIZE.

2. MATERIAL SPECIFICATIONS FOR EACH COMPONENT.

3. ANCHOR BOLTS AND WASHERS SHALL BE AN AUSTENITIC GRADE OF STAINLESS STEEL CONFORMING TO THE CHEMISTRY OF ASTM A276 TYPE 304 WITH THE FOLLOWING PHYSICAL PROPERTIES:

(a) TENSILE STRENGTH, minimum	80,000 psi
(b) YIELD STRENGTH, minimum	55,000 psi
(c) ELONGATION IN 2 INCHES, minimum	25%
(d) ROCKWELL B HARDNESS, minimum	86
OR CHARPY V-NOTCH (AASHTO T243 USING H	15 ft. - lbs.
FREQUENCY OF TESTING), minimum	40° F

NUTS FOR THE ANCHOR BOLTS SHALL BE THE HEAVY HEX TYPE CONFORMING TO THE REQUIREMENTS OF ASTM A-194 GRADE 8.

4. WELDING INFORMATION FOR ALL WELDED CONNECTIONS (SEE SUBSECTION 506.10). THE FOLLOWING INFORMATION WILL BE REQUIRED FOR ALL WELDED JOINTS (ALUMINUM OR STEEL):

- (a) PROCEDURE SPECIFICATIONS PER AWS D11 APPENDIX E FORM E1
(b) PROCESS AND PROCEDURE QUALIFICATION TESTS PER AWS D11 APPENDIX E FORM E2.
(c) CERTIFICATE OF CONFORMANCE TO SPECIFICATIONS FOR FILLER MATERIAL.

- 1.E)4. CONT WHEN USING ANY GMAW OR FCAW WELDING PROCESS THE FOLLOWING WILL ALSO BE REQUIRED:
A MANUFACTURER'S CERTIFICATE THAT THE GAS OR GAS MIXTURE IS SUITABLE FOR THE INTENDED APPLICATION AND MEETS THE DEW POINT REQUIREMENTS.

REFERENCE - AASHTO MODIFICATION OF AWS D11 SEC. 4.18.

5. POLE STAMPING DETAIL

2. THE MANUFACTURER SHALL SUBMIT, FOR APPROVAL, SHOP DRAWING FOR THE STREET LIGHT LUMINAIRE. THE SUBMITTAL SHALL CONTAIN AT A MINIMUM THE FOLLOWING INFORMATION.

A) LUMINAIRES

1. FIXTURES

- (a) VOLTAGE RATING
(b) WATTAGE AND LAMP TYPE
(c) BALLAST TYPE
(d) PHOTO CELL
(e) ANY OTHER FEATURES SPECIFIED ON THE PLANS SUCH AS FINISH, SPECIAL WIRE ACCESS, ETC.,

2. PHOTOMETRIC DATA

- (a) IES DISTRIBUTION TYPE
(b) UTILIZATION CURVE
(c) ISO - FOOT - CANDLE CURVES
(d) MOUNTING HEIGHT FACTOR
(e) MAINTENANCE FACTOR

B) WIRING

CONDUCTOR MATERIAL, INSULATION TYPE, VOLTAGE RATING, AND TEMPERATURE RATING, SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE USE AND SIZE AND BE COLOR CODED.

3. IN #1 AND #2 ABOVE, THE INFORMATION SUPPLIED SHALL EITHER MATCH OR BE EQUIVALENT TO THE DETAILS SPECIFIED ON THE PLANS OR ON THE STD. SHEETS. IF EQUIVALENT, THE CONTRACTOR MAY BE ASKED TO SUPPLY PROOF OF EQUIVALANCY. COPIES OF CATALOGUE SHEETS ARE ACCEPTABLE IF ALL THE APPROPRIATE INFORMATION IS INCLUDED.

TRAFFIC SIGNAL NOTES
LIST OF EQUIPMENT
LOOP TEST RESULTS

PREPARED BY LKA DATE 10/87
CHECKED BY DATE
DESIGN SUPERVISOR DATE
PROJ. COLCHESTER
RS 0285(5)
TRAFFIC SHEET NO. 33 OF 73 SHEETS

POLE NUMBER	POLE LENGTH, GAGE, & DIAMETER	B.C.	S	T	BASE DEPTH	BASE DIAMETER	ANCHOR BOLT SIZE	POLE BKRK.
#1,2	30', 3GA, 14"	20"	20%	2'	9'	2 1/2"	1 3/4" x 90"	3 1/4"
	Poles shall be equipped with a tenon for a pole top mounted luminaire.							
	Pole #2 shall have a second weatherhead for the aerial power service. It shall be at 60°* clockwise from the signal cable weatherhead.							
	* Location of relocated utility pole must be verified by contractor prior to pole fabrication. Field revisions may change angle.							

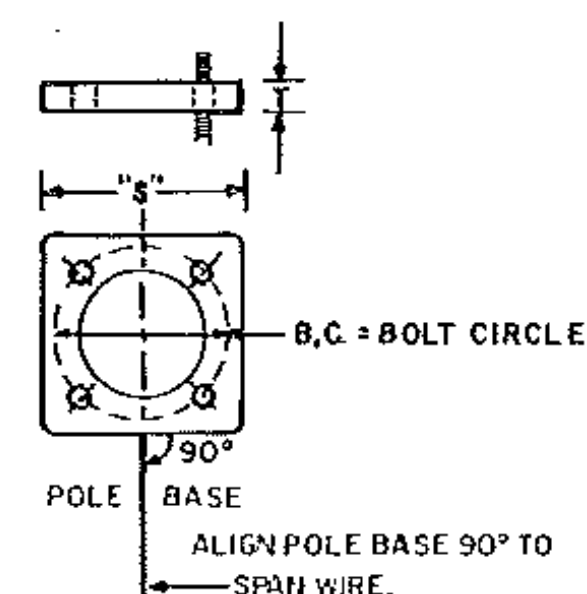
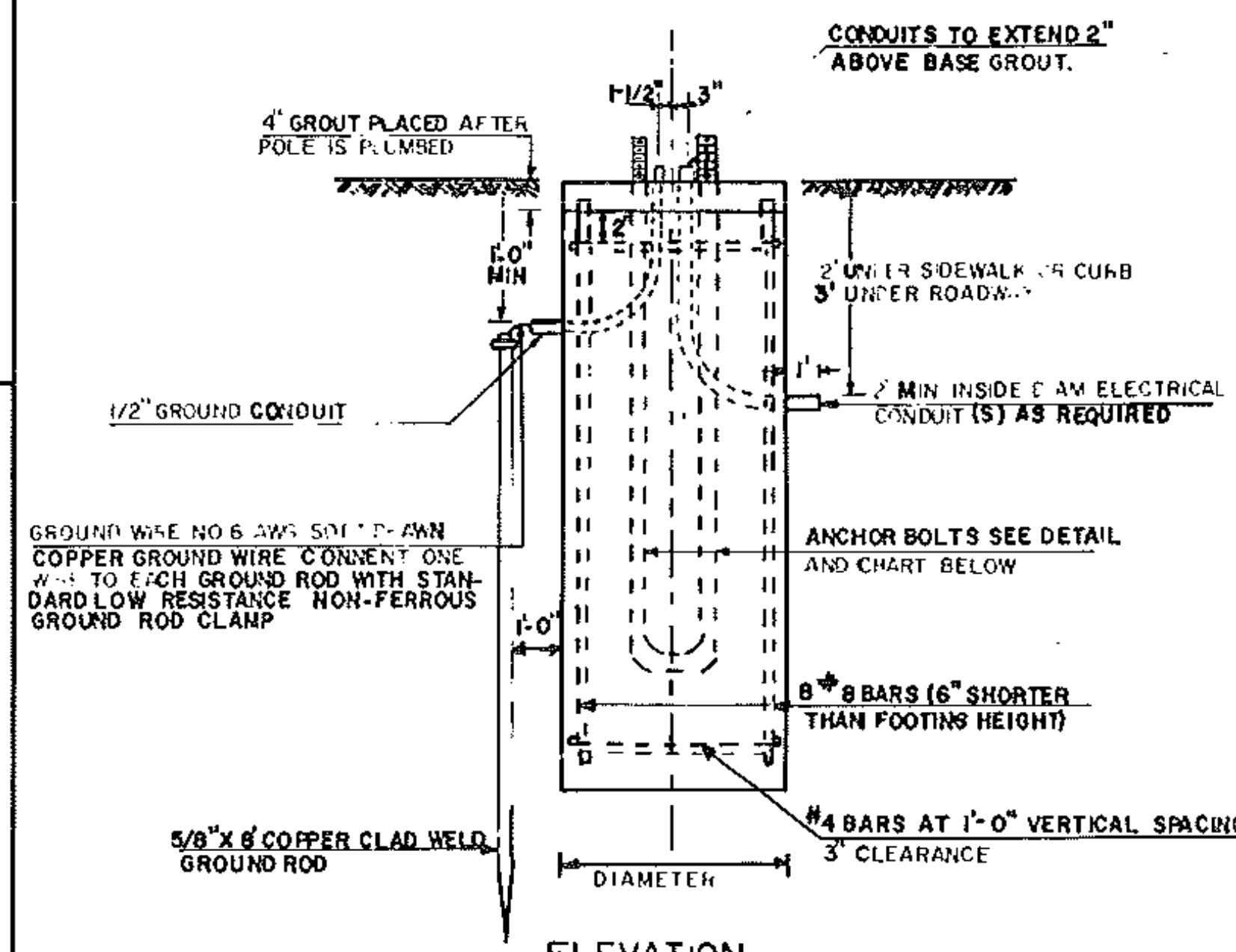
STRAIN POLE

IF MORE THAN ONE LOCATION
SEE SHEET(S) _____ FOR
ADDITIONAL DETAILS.

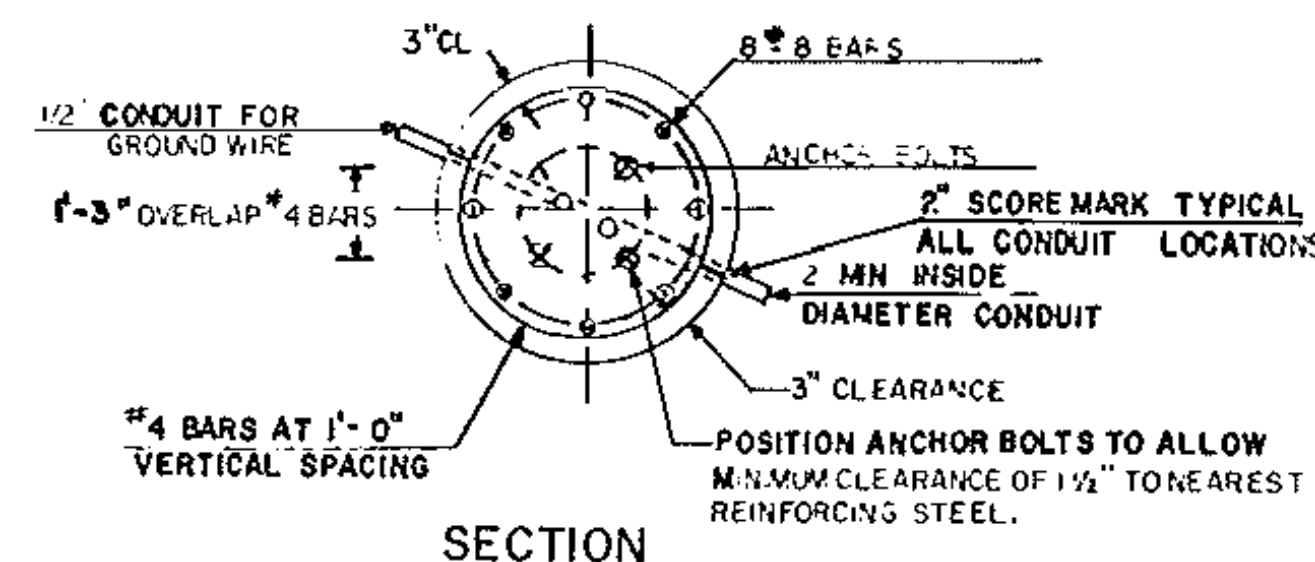
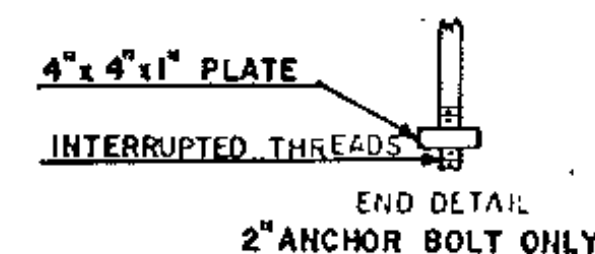
Hand-drawn site plan of a rectangular building on graph paper. The plan shows a rectangular structure with a central corridor and two side rooms. Dimensions are given in feet. The building is labeled "113" at the top. The plan includes details for "200 Watt luminaire @ 30'' at the top corners, "2 1/2 x 9' core base" at the bottom corners, and "9' MAX" and "16 1/2 MAX" for room heights. The plan is dated "11/3" at the top center.

SPAN WIRE CROSS SECTION

DEAD LOAD SPAN WIRE TENSION= 1360 lbs
LIVE LOAD SPAN WIRE TENSION= 3550 lbs
SCALE 1"= 10'



STRAIN POLE FOOTING



ANCHOR BOLT DETAIL			
SIZE	L	T	G
1-1/4" x 48"	42	8	10
1-1/2" x 60"	54	9	11
1-3/4" x 90"	84	9	11
2" x 96"	90	9	11

ANCHOR BOLT DETAIL

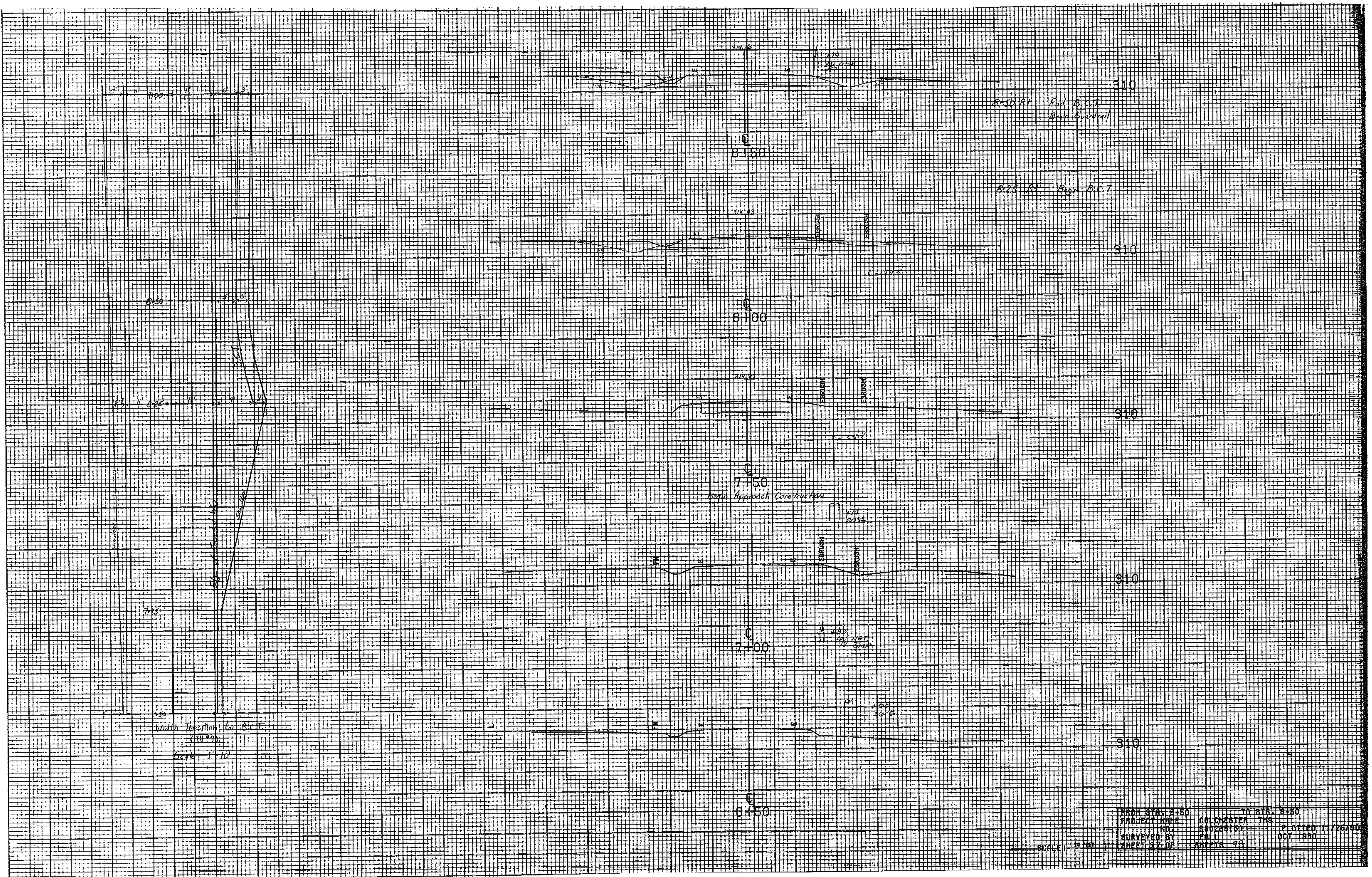
- 1) ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANS. STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.
- 2) TRAFFIC CONTROL SIGNAL STRAIN POLES SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 752.02. STRAIN POLES, AND SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 678 - TRAFFIC CONTROL SIGNALS.
- 3) STEEL POLE CAP SHALL BE PROVIDED WITH A 2-INCH BUSHED (BLIND) ELECTRICAL ENTRANCE WHEN APPLICABLE. THE STRAIN POLE SHALL BE PROVIDED WITH A 2-INCH (BLIND) HALF COUPLING FOR SIGNAL CABLE, LOCATED 6" BELOW THE SPANWIRE ATTACHMENT HEIGHT.
- 4) FOUR HIGH-STRENGTH STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS PER BOLT SHALL BE FURNISHED WITH EACH POLE. BOLTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 55,000 P.S.I. AND AN ULTIMATE OF 80,000 P.S.I. BOLTS AND BASES SHALL BE OF ADEQUATE SIZE TO RESIST THE FULL BENDING MOMENT OF THE POLE AT FULL STRENGTH STRESS.
- 5) ~~ANCHOR BOLT REQUIREMENTS SHALL BE GALVANIZED TO CORROSION RESISTANCE~~
- 6) ADDITIONAL DESIGN CRITERIA:
 - CONCRETE - $F_c = 1,400$ P.S.I. $F'_c = 3,500$ P.S.I.
 - WIND LOAD - 25 LBS PER SQUARE FOOT (MINIMUM) ON THE EXPOSED POLE SURFACE.
 - REINFORCING STEEL $F_s = 24,000$ PSI (GRADE 60)
- 7) IN ACCORDANCE WITH SUBSECTION 106.03 SHOP DRAWINGS (5 COPIES OF EACH) SHALL BE SUBMITTED TO THE STATE OF VERMONT, DEPARTMENT OF HIGHWAYS, FOR APPROVAL PRIOR TO FABRICATION.
- 8) CONCRETE FOR FOOTINGS SHALL CONFORM TO REQUIREMENTS OF CONCRETE CLASS "B" SECTION 501, STRUCTURAL CONCRETE.
- 9) ANY BACKFILL MATERIAL PLACED ADJACENT TO THE FOOTINGS SHALL BE GRAVEL MEETING THE REQUIREMENTS FOR GRANULAR BACKFILL FOR STRUCTURES, SUBSECTION 704.11.
- 10) WHEN THE DESIGN DEPTH OF A FOOTING CANNOT BE OBTAINED DUE TO UNFORESEEN FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN A REVISED FOOTING DETAIL FROM THE ENGINEER.
- 11) ~~ALL ANCHOR BOLTS SHALL CONFORM WITH THE REQUIREMENTS OF SUBSECTION 744.6. NUTS FOR ASTM A-325~~
ANCHOR BOLTS SHALL CONFORM WITH ASTM A-325 OR ASTM A-325-70 NOTE 1.E.3. ON SHEET 33.
- 12) PEDESTAL POSTS AND BASES (SUBSECTION 752.01) MAY BE EITHER STEEL WITH A CAST IRON BASE OR ALL ALUMINUM.
- 13) EACH METAL POLE SUPPORTING EITHER VEHICLE OR PEDESTRIAN TRAFFIC SIGNAL EQUIPMENT SHALL BE GROUNDED.
- 14) SHOP DRAWINGS SPECIFIED IN NOTE NO. 7 SHALL INCLUDE THE FOLLOWING INFORMATION:
 - A) DETAILED DRAWING OF EACH COMPONENT OF THE STRAIN POLE.
 - B) MATERIAL SPECIFICATIONS FOR EACH COMPONENT OF THE STRAIN POLE BY COMPLETE SPECIFICATIONS OR BY REFERENCE TO APPLICABLE ASTM STANDARD.
 - C) NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER AND STRAIN POLE STATIONING. (TO BE INCLUDED ON EACH SHEET INCLUDING STANDARD SHEETS AND SPECIFICATION SHEETS).
 - D) DETAILS FOR LOCATION OF LUMINAIRE ARM(S) ON STRAIN POLES.
 - E) ALL ELEVATIONS AND DIMENSIONS NECESSARY TO PROVIDE A COMPLETE SET OF RECORD PLANS.
 - F) DEAD LOAD DEFLECTION INFORMATION.
 - G) WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE SHOP DRAWINGS.
- 15) ALL DESIGN DETAILS, WORKMANSHIP, PROCEDURES AND INSPECTION OF WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D.1.1-80 AS MODIFIED BY THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR WELDING OF STRUCTURAL STEEL HIGHWAY BRIDGES. THE SHIELDED METAL ARC WELDING (SMAW) OR SUBMERGED ARC WELDING (SAW) PROCESSES SHALL BE USED FOR ALL WELDING UNLESS OTHER PROCESSES ARE APPROVED, ON A PROJECT BY PROJECT BASIS, FROM ACCEPTABLE RESULTS OF PROCEDURE QUALIFICATION TESTS.
- 16) WHERE WELDMENTS ARE TO BE GALVANIZED AFTER WELDING, A TYPE OF FILLER METAL WHICH WILL DEPOSIT WELD METAL WITH A SILICON CONTENT LESS THAN 0.4 PERCENT SHALL BE USED.
- 17) ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIAL(S) BEING WELDED.

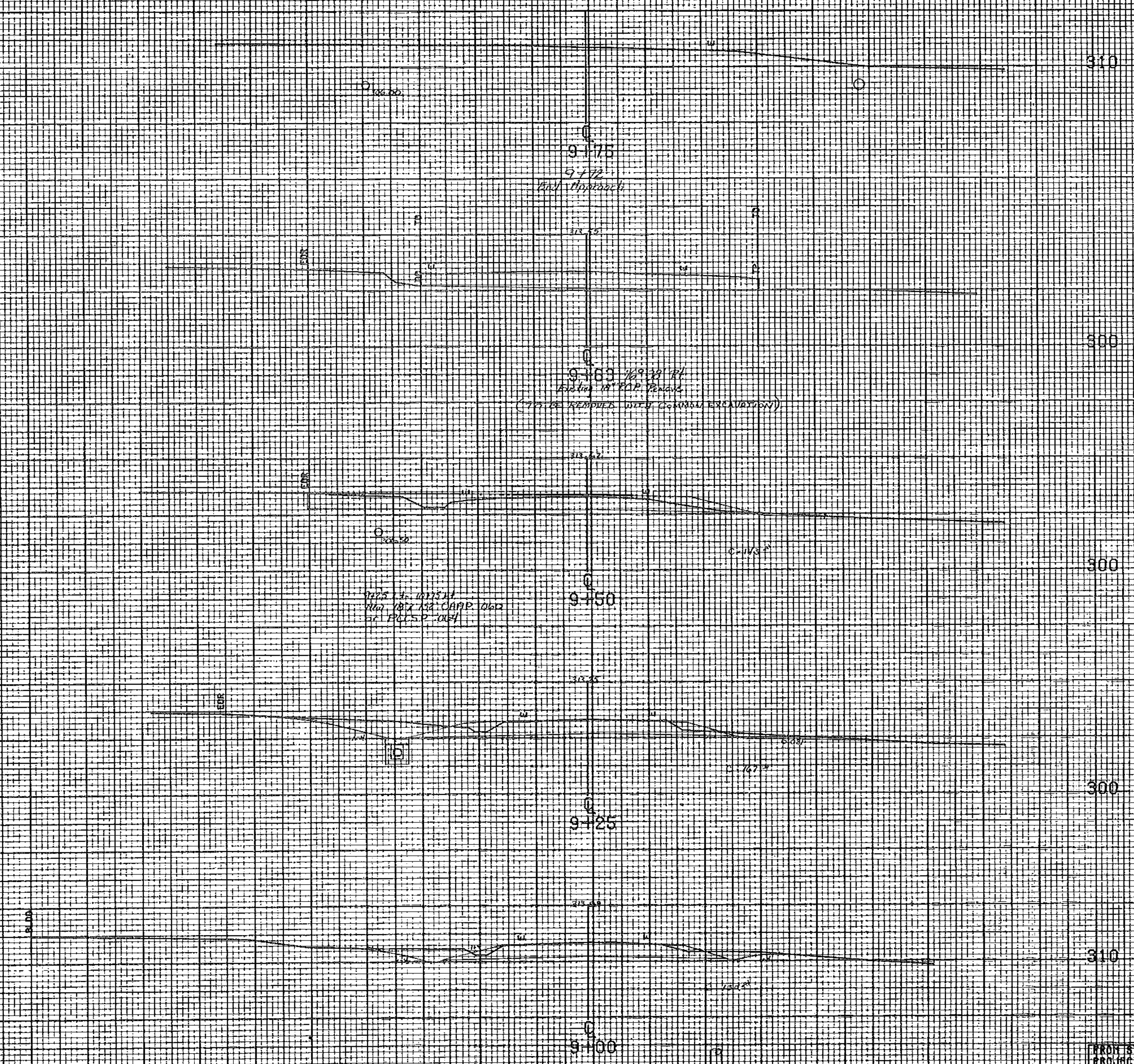
$$F_b = \frac{0.55 F_y (K_p)}{127} \quad (\text{COMPACT SECTION})$$

STRAIN POLE/FOOTING DETAIL SHEET

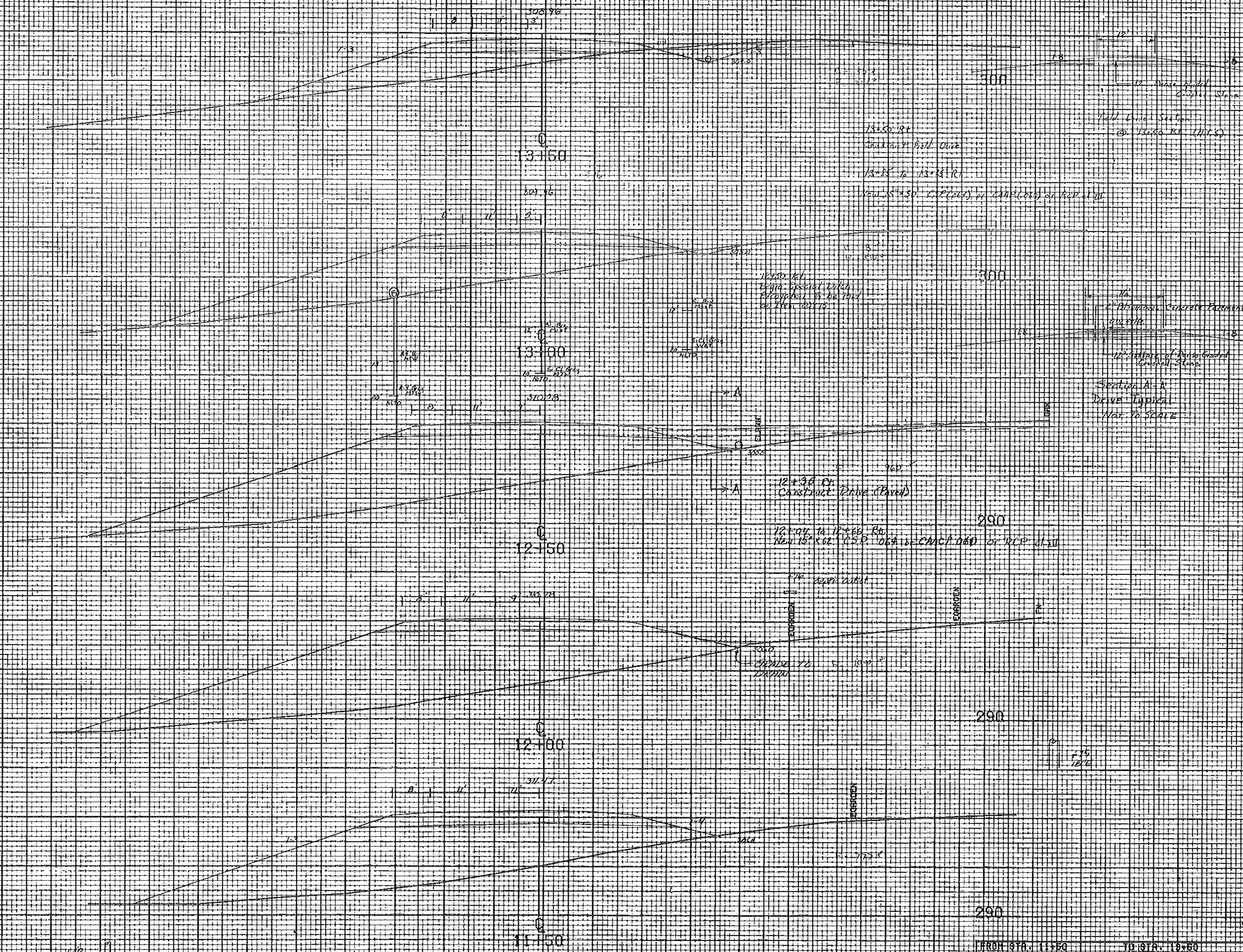
TRAFFIC SIGNAL PROJECTS AND RELATED ITEMS

DONE BY LKA DATE 9/87
DRAWN BY _____ DATE _____
CHECKED BY _____ DATE _____
COLCHESTER
PROJ. RS NO. 0285(S)
SHEET 34 OF 93

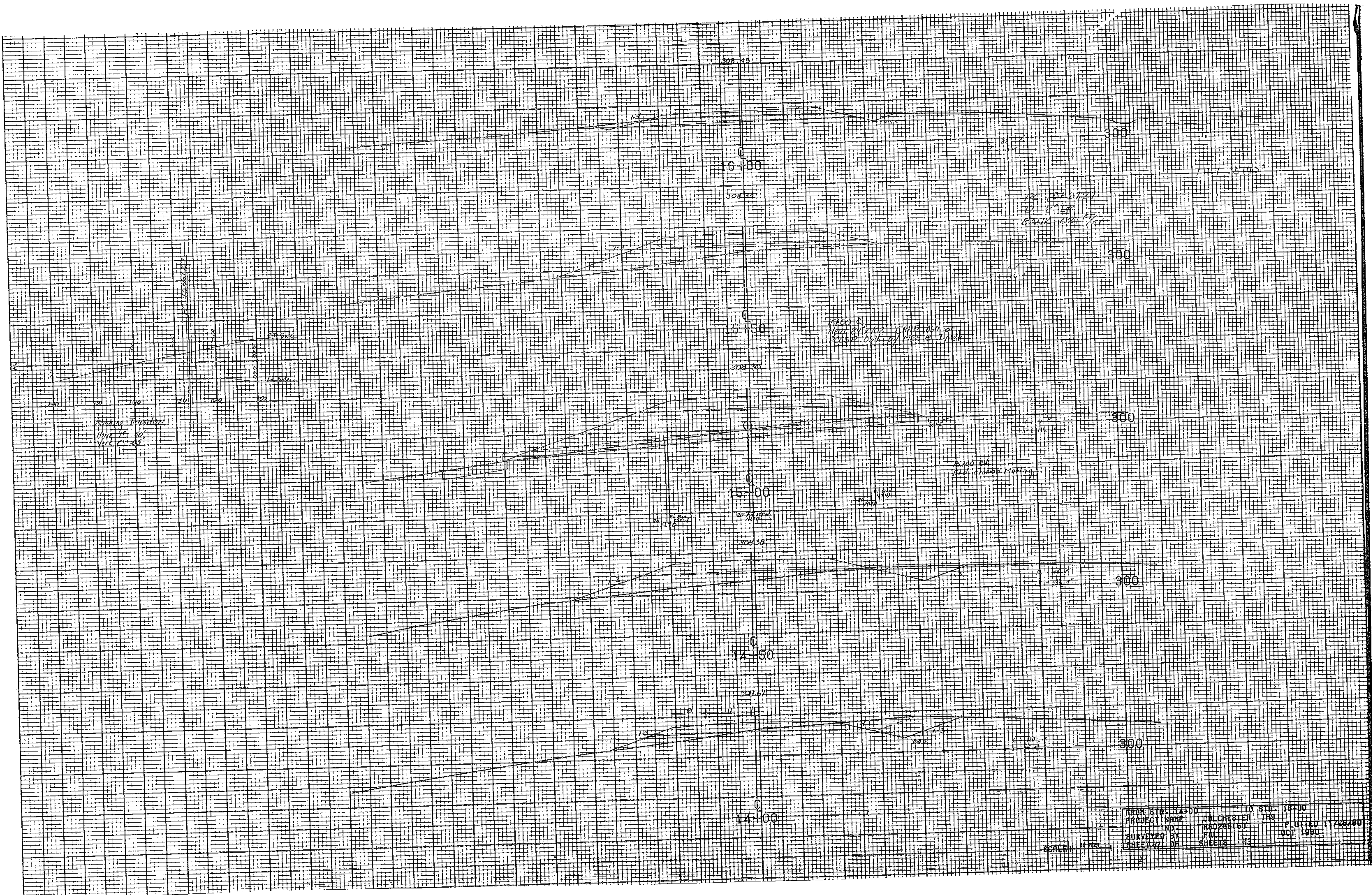




FROM STA. 9+00	TO STA. 9+75
PROJECT NAME	COLCHESTER TMS
NO.	ADDRESSES
SURVEYED BY	PLANNED
SHEET 30 OF	SHEETS 33
OCT 1980	



FROM STA. 11+50 TO STA. 18+50
PROJECT NAME COLCHESTER T19
NO. R002051 PL 0125 1/25/00
SURVEYED BY CNU OCT 1980
SHEET 40 OF 4 SHEETS 73



309.02

500

18.50

308.91

300

18.00

308.79

290

17.50

308.68

300

17.00

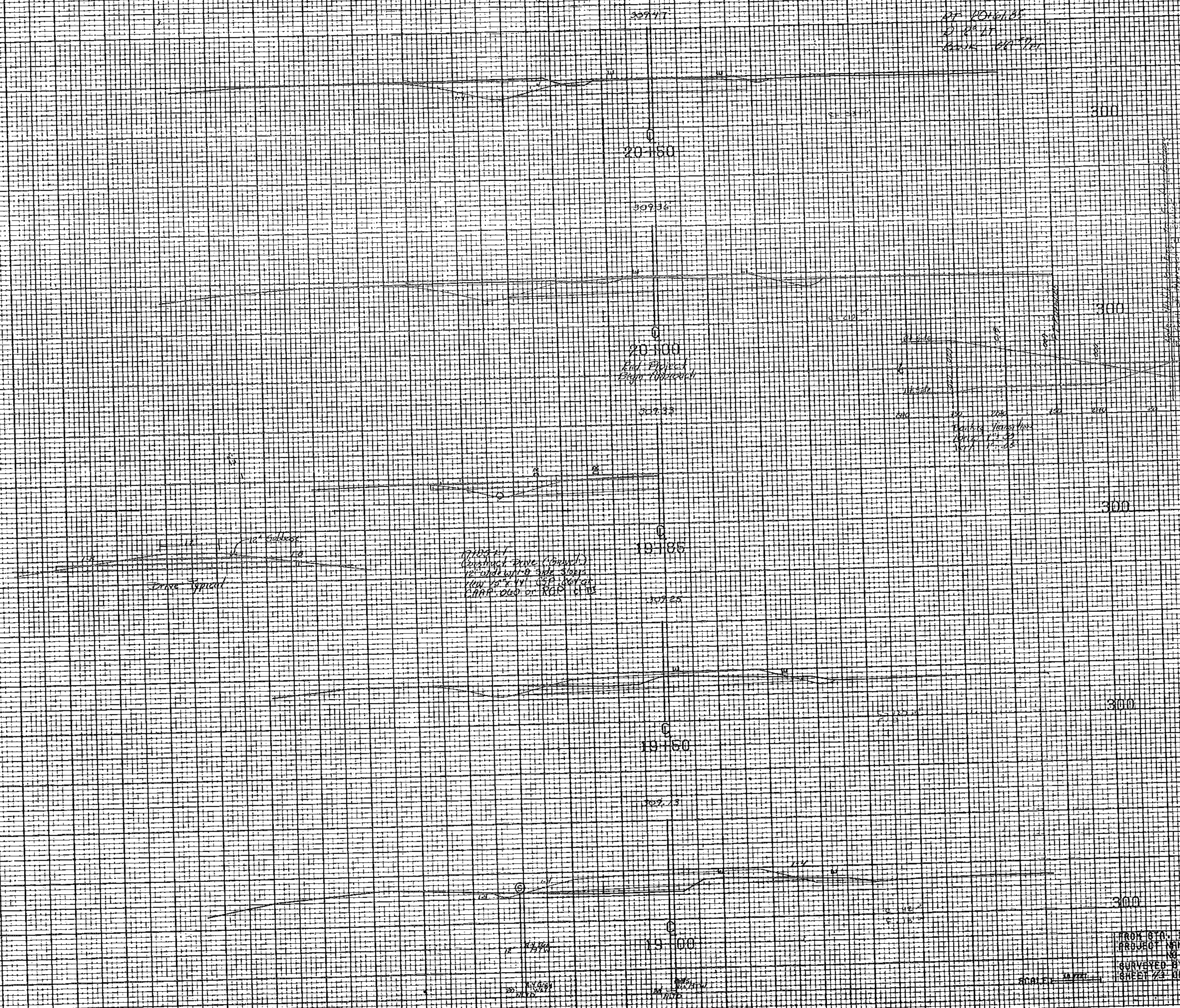
308.57

300

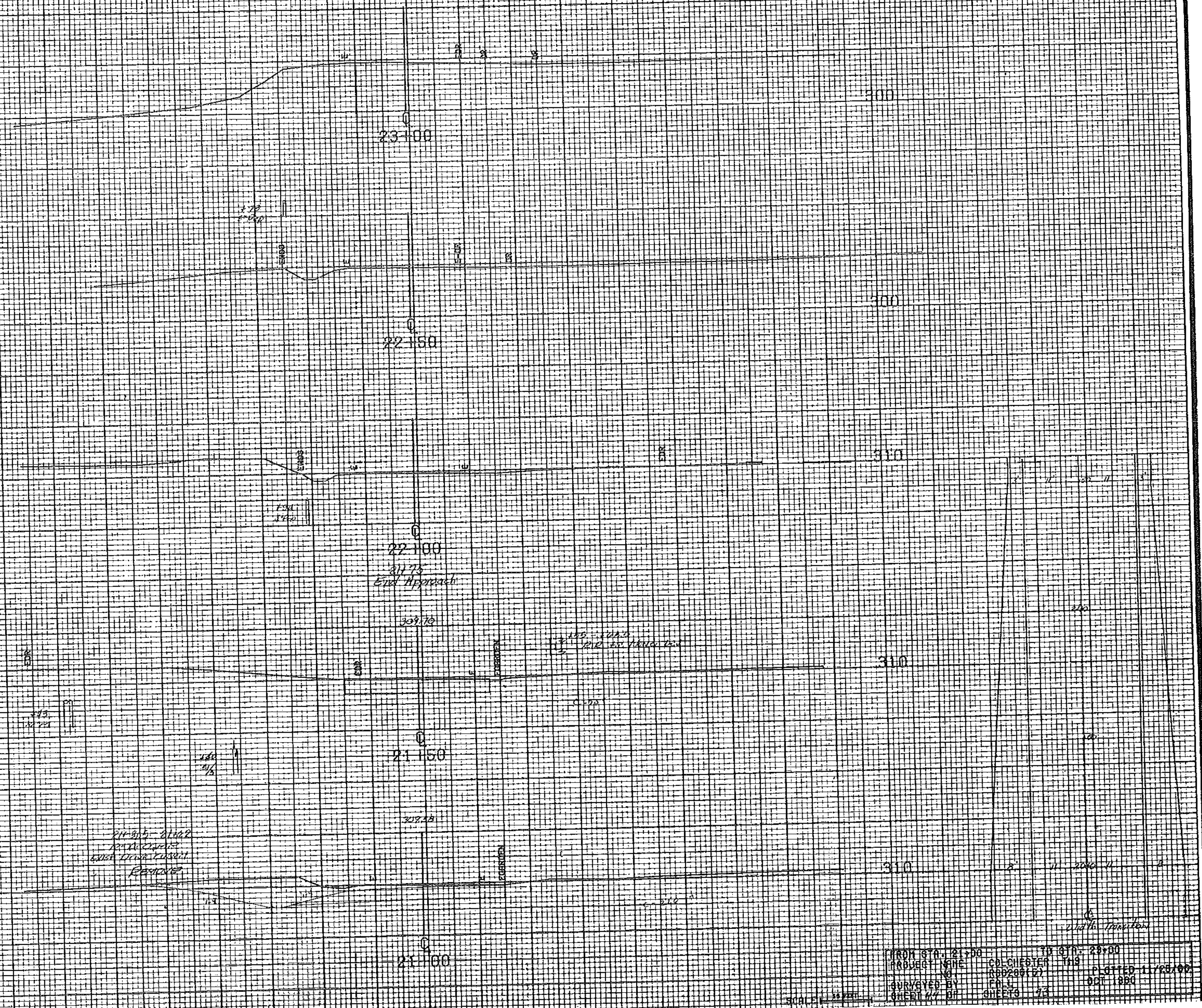
16.50

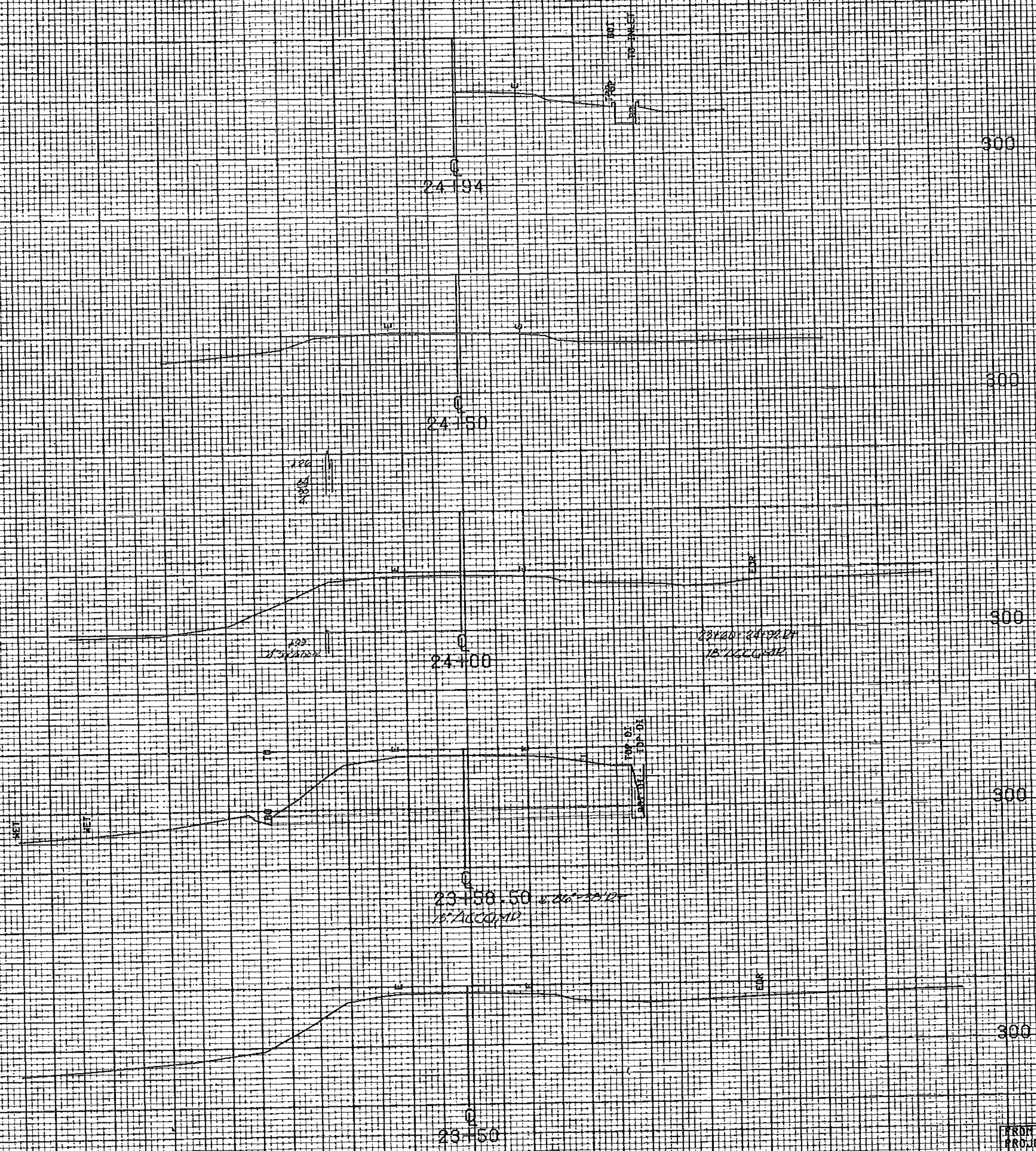
FROM STA. 16+50 TO STA. 18+50
PROJECT NAME COLCHESTER TMS
NO. 80288160
SURVEYED BY FALL
SHEET 22 OF SHEETS 43
PLOTED 11/20/80
OCT 1980

SCALE 1" = 40'



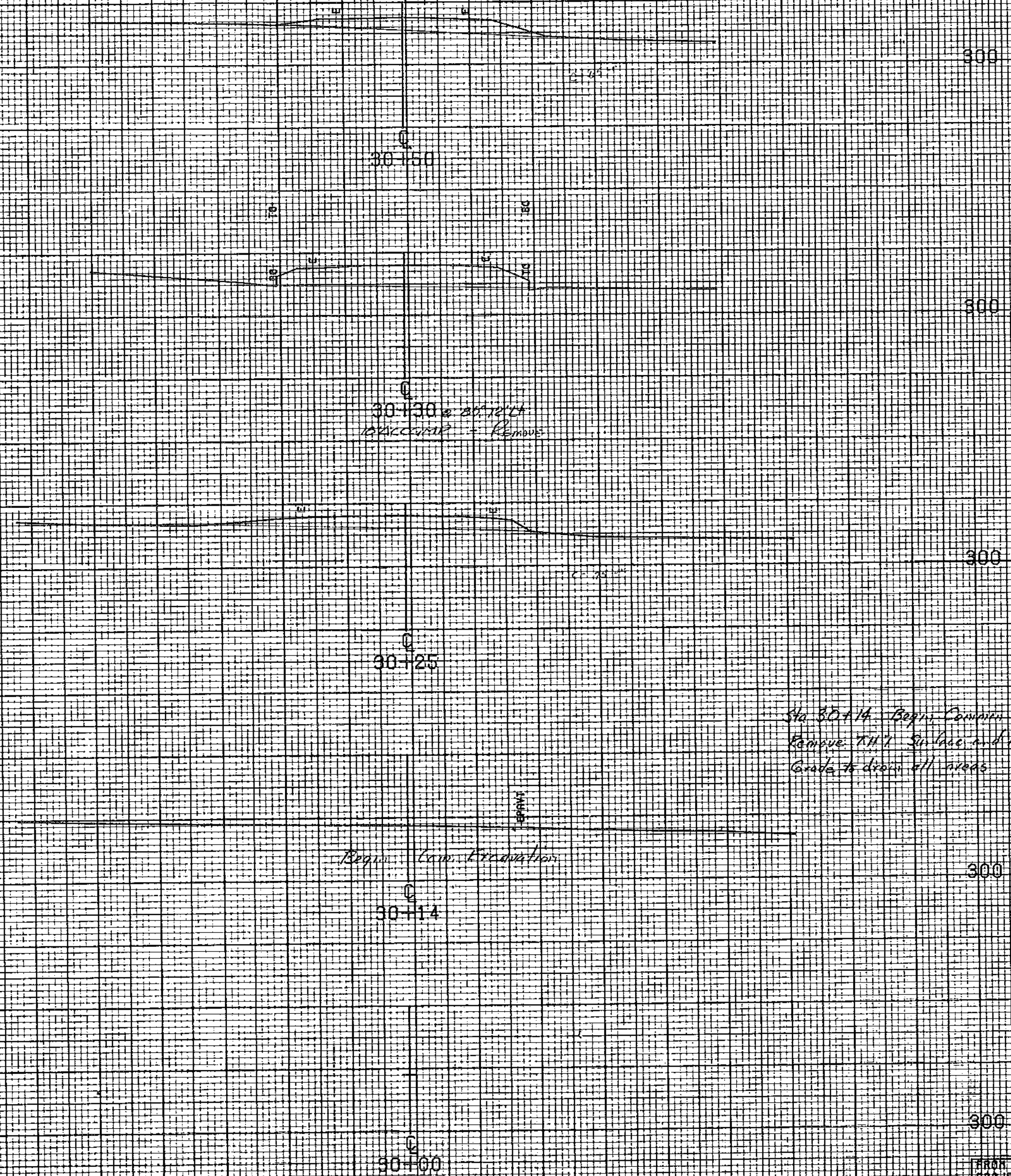
FROM 870. 10+00 TO 370. 20+50
PROJECT NAME COLONETTER 119
SURVEYED BY R. 1016105
SHEET 22 OF 43
PLOTTER 11/26/00
OCT 1980





FROM STA. 23+50	TO STA. 24+94
PROJECT NAME	COLCHESTER TNS
NO.	R50286151
SURVEYED BY	FHL
SHEET 26 OF	SHEETS 78
	DOT 1980

SCALE: 1"=40'



Sta 30+14 Begin Comp. Excavation
Remove TH' Surface and Base Material
Grade to drain all roads

FROM STA. 30+00	TO STA. 30+50
PROJECT NAME	COLCHESTER, IA
NO.	RS026815L
SURVEYED BY	FALL
SHEET NO. OF	SHEETS 1/3
DATE	10/19/80

SCALE 1" = 10' HORIZ.

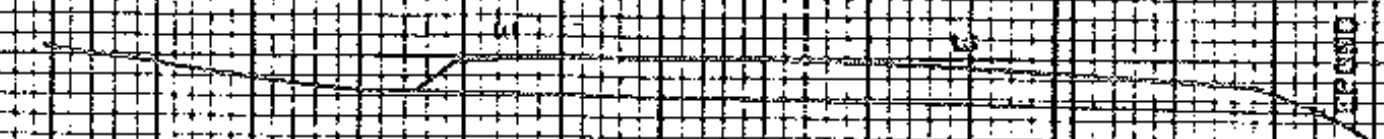


300

See Main Line Sections
Sta. 17+00 to 18+00

37+00

St. 36+55.2 to 17+50
Common Section for
Removal of old T.H. 7
Surface and base material



290

36+00

Grade to drain all areas
of existing T.H. 7



300

35+00



300

34+00

C = 132' 17"

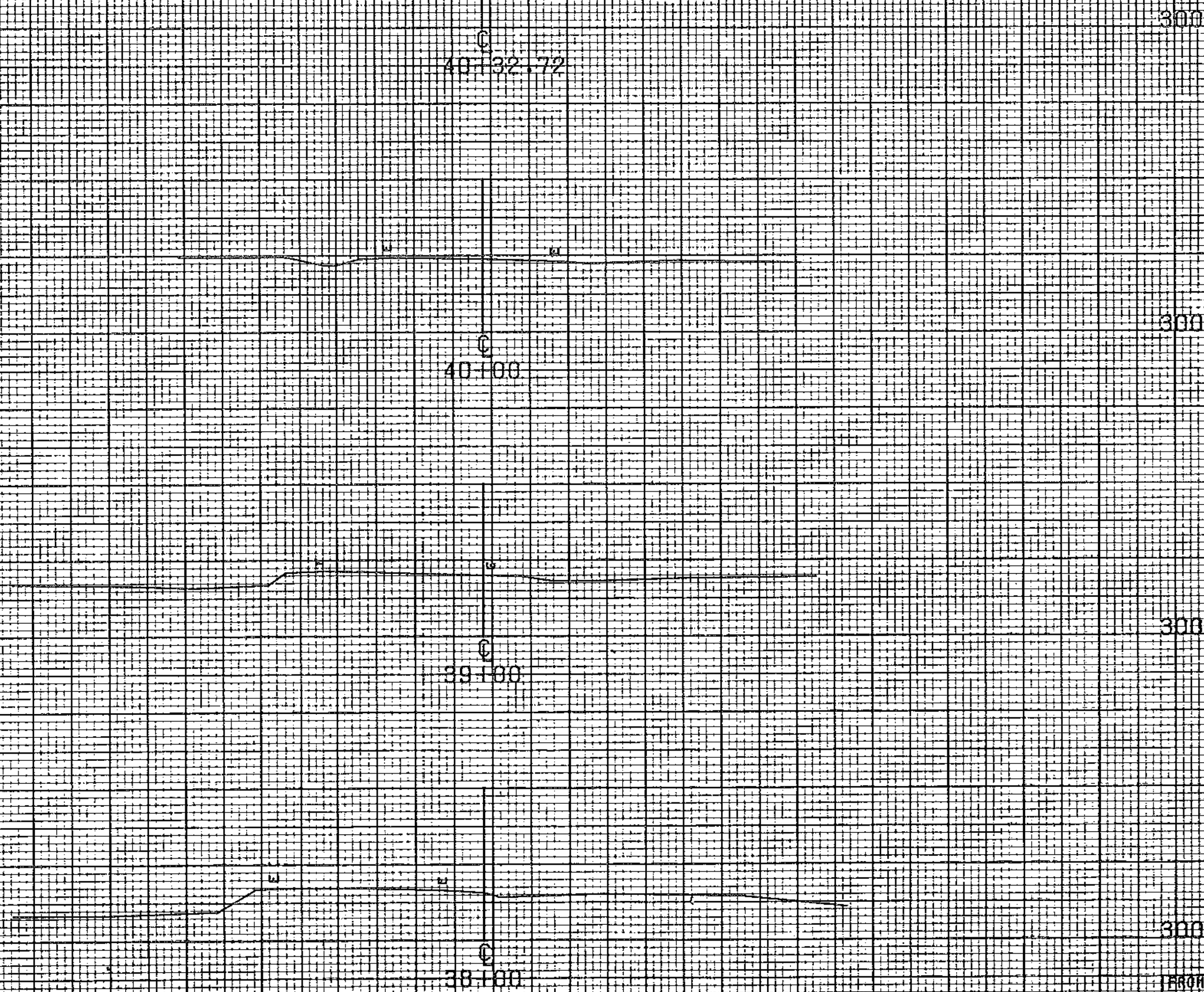


300

33+25

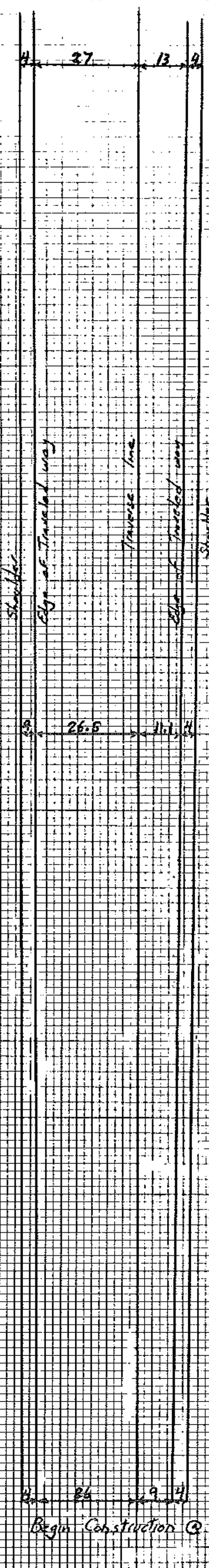
FROM STA. 33+25	TO STA. 37+00
PROJECT NAME	GOLDCHESER TH
NO.	800208167
SURVEYED BY	FALL
SHEET 1 OF 2	SHEETS 13
	PLOTTED 11/25/00
	OCT 1999

SCALE 1" = 40'

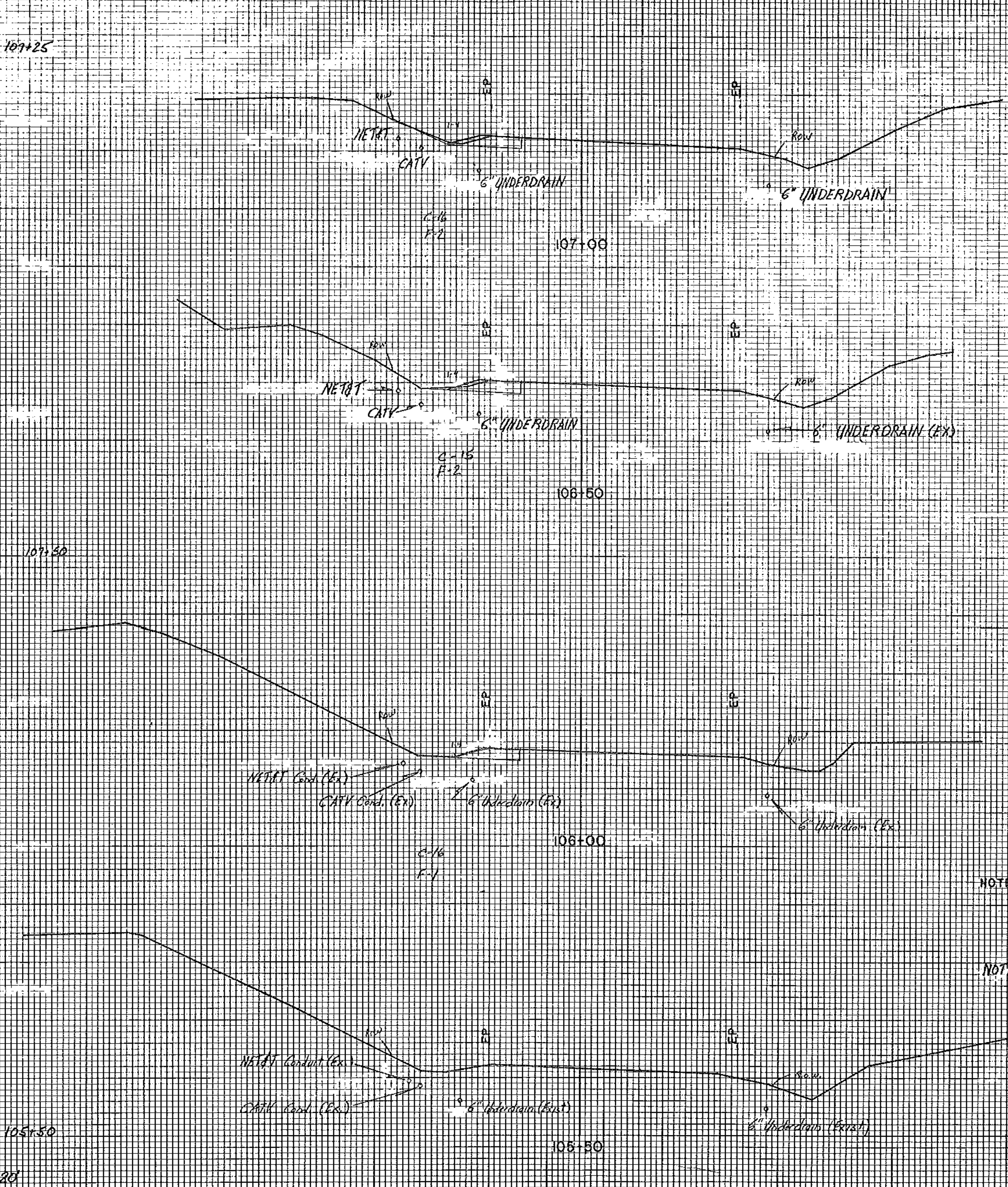


FROM STA. 38+00	TO STA. 40+32.72
PROJECT NAME	COLCHESTER TWP
NO.	R60206(5)
SURVEYED BY	FILE
SHEET 77 OF	SHEETS 78
	06/1/00

SCALE 1" = 100'



Width Transition
STA 105+50 ~ 107+25
(4.5-7)

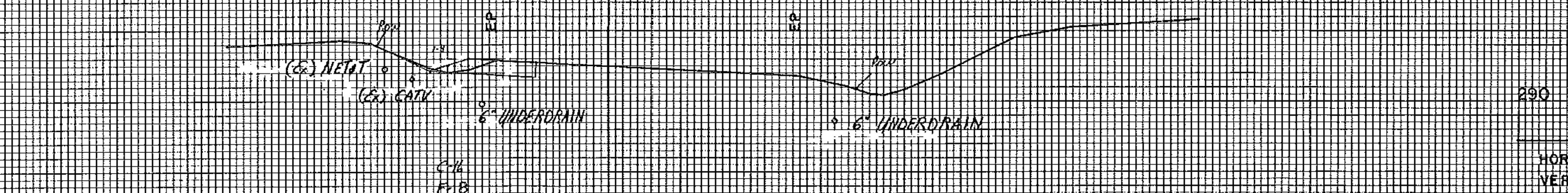
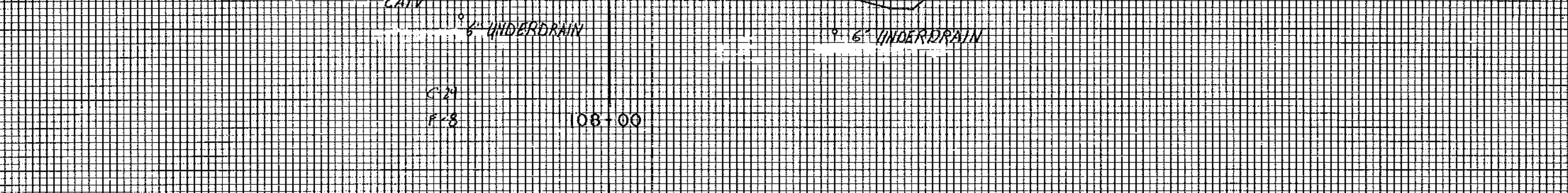
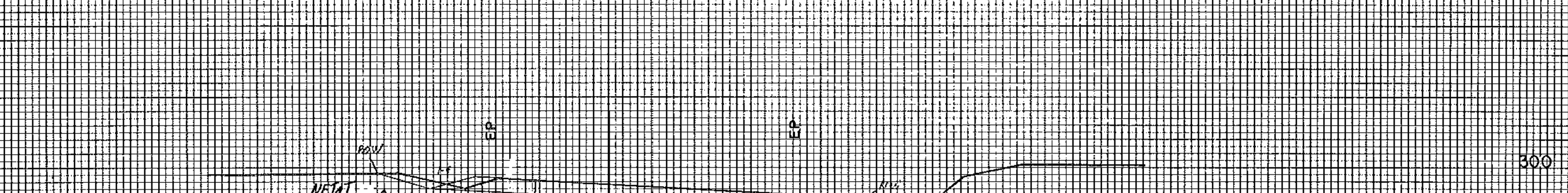
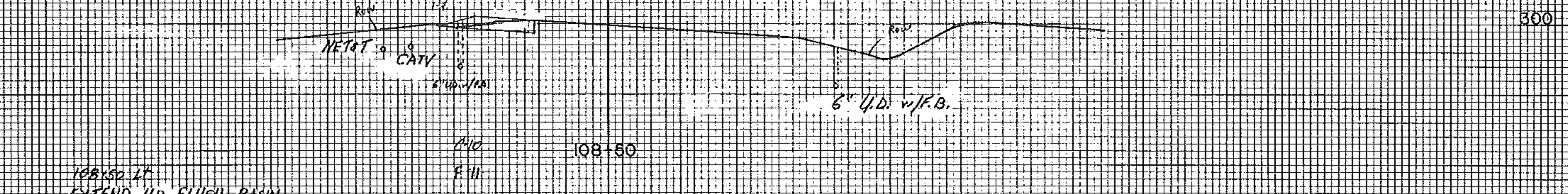
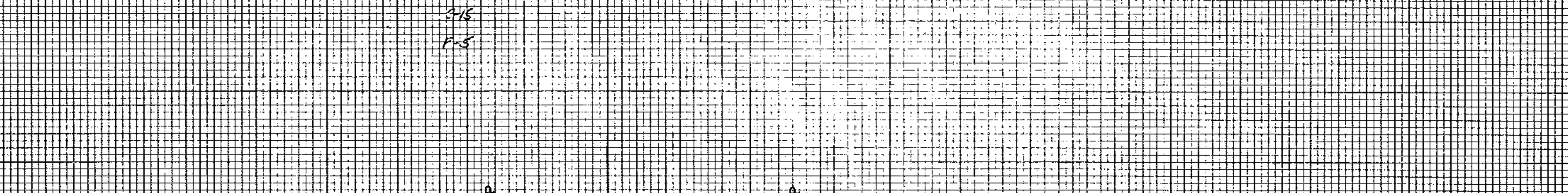
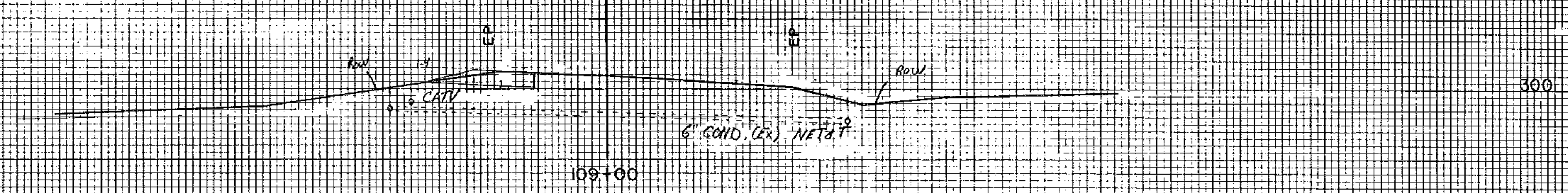


NOTE STA. 105+50 TO 111+00 X-SECTIONS OBTAINED FROM FINAL RECORD PLANS FOR PROJ. BP 019-5723

NOTE: FROM 109+00 PM TO 114+75 PM
AND
FROM 105+50 PM TO 114+75 PM
PAVEMENT SHALL BE CUT OR SAWN
NOT RIPPED. PAYMENT SHALL BE
Subsidiary to Common Excavation

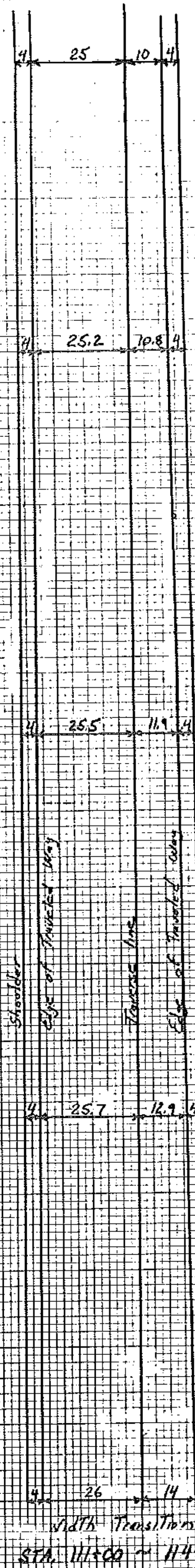
SCALE
HORIZ. 1" = 10'
VERT. 1" = 10'

FROM STA. 105+50	TO STA. 107+00
PROJECT NAME	COLCHESTER
NO.	850265(3)
SURVEYED BY	
SHEET 52 OF 93	SHEETS



SCALE
HORIZ. 1" = 10'
VERT. 1" = 10'

FROM STA. 107+50 TO STA. 109+00
PROJECT NAME: COLCHESTER
NO. R00285(5)
SURVEYED BY
SHEET 5 OF 18 SHEETS



114+75

114+00

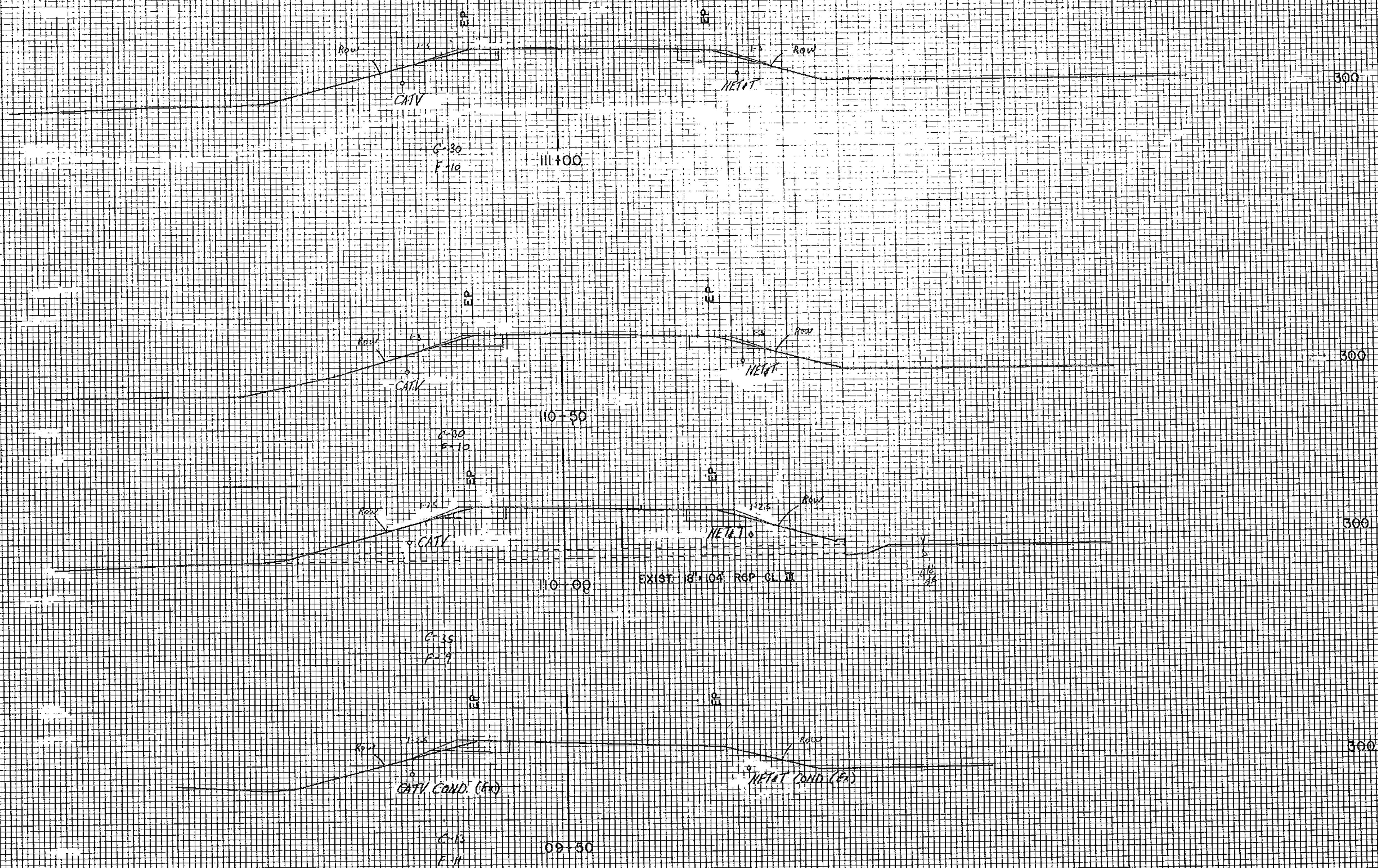
113+00

112+00

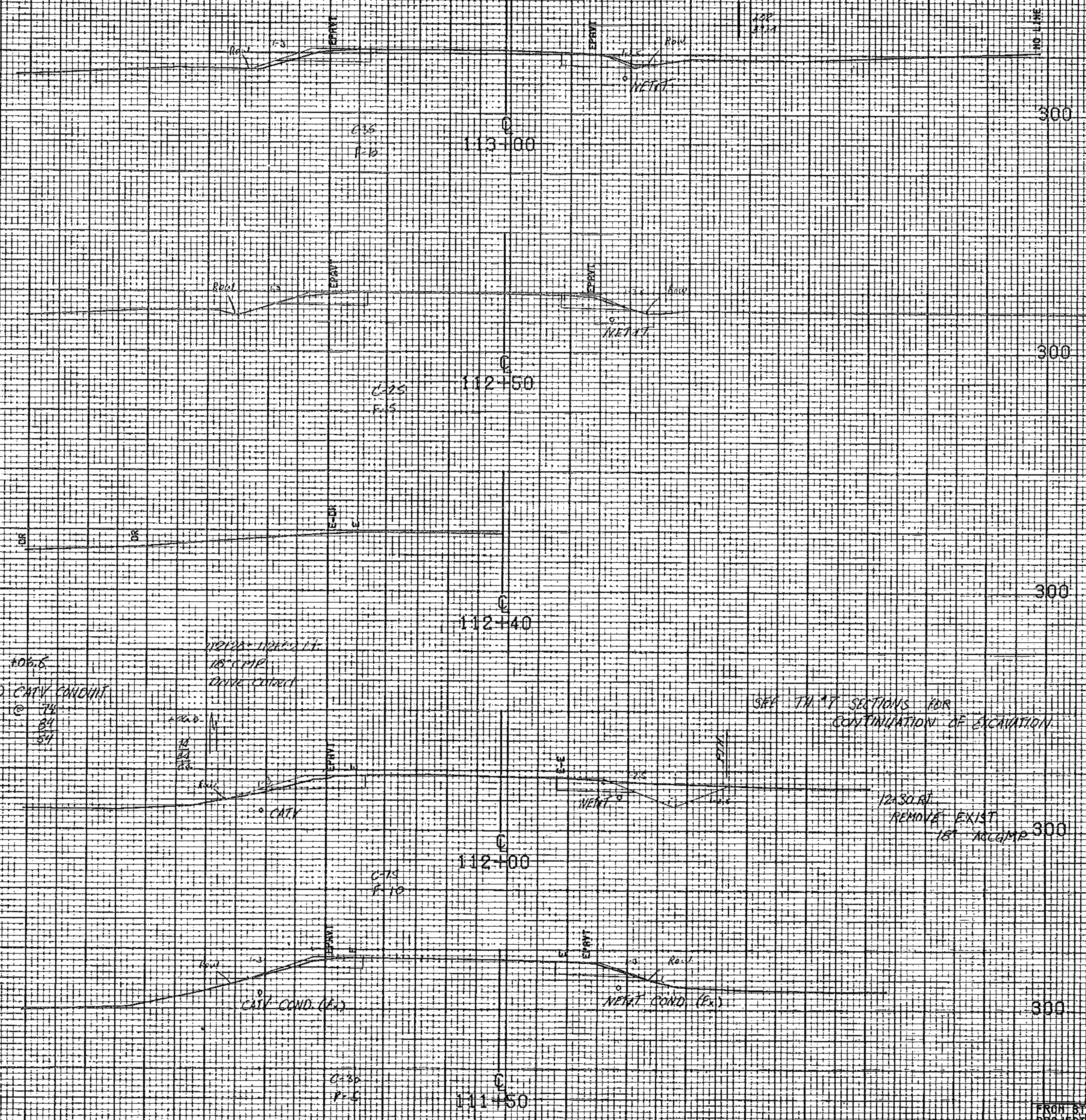
111+00

+50

Scale 1" = 20'



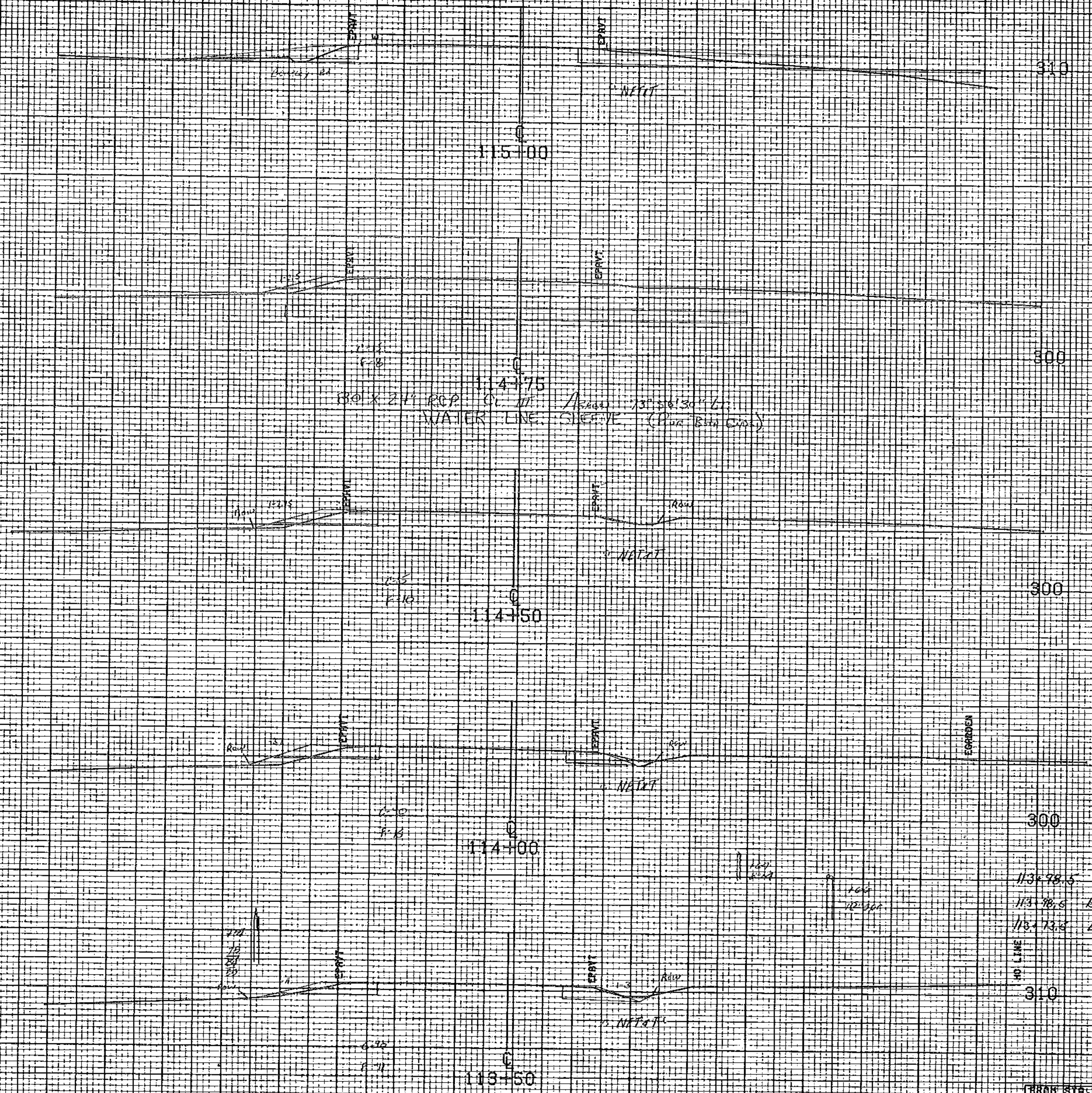
FROM STA. 109+50 TO STA. 111+00
 PROJECT NAME COLCHESTER
 NO. RS0265151
 SURVEYED BY
 SHEET 32 OF 93 SHEETS



FROM STA. 111+50	TO STA. 113+00
PROJECT NAME	COLCHESTER USG
NO.	R8028508
SURVEYED BY	FRUE
SHEET NO. OF	SHEETS 24

SCALE 1" = 40'

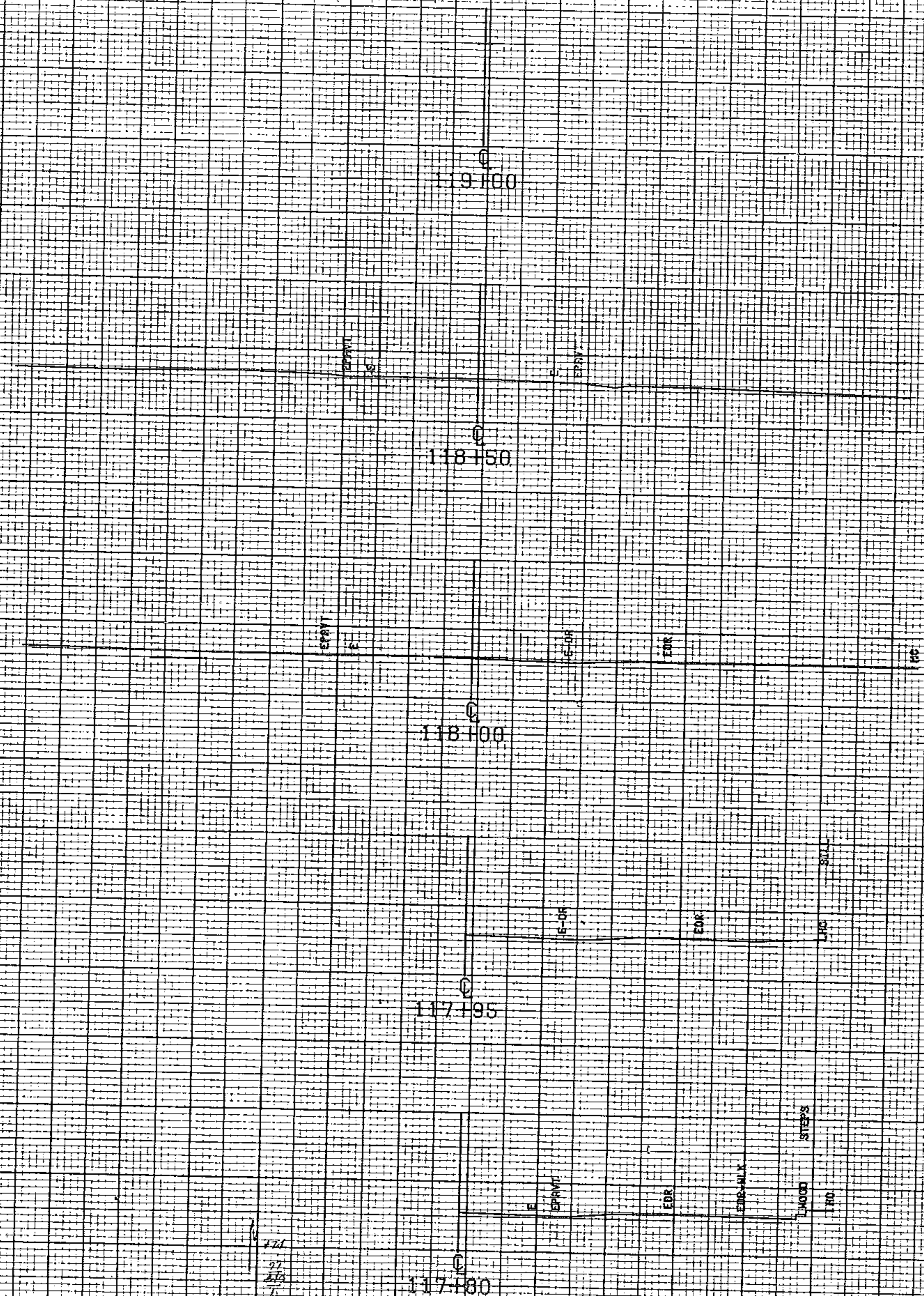
DATE 11/25/80



113+78.5 End Guardrail
113+78.5 Begin Twisted End Terminal
113+78.5 End Twisted End Terminal



SCALE 1" = 10 FEET



310

310

310

310

310

FROM STA. 117+80	TO STA. 119+00
PROJECT NAME	COLUMBIA 1087
NO.	AS0288163
SURVEYED BY	PHIL
SHEET 5/2 OF	SHEETS 13
	PLOTTED 11/25/80
	OCT 1980

SCALE 1" = 20 FEET