

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
(DETAIL SHEET)

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	FILE TAKEN	DATE	TOWN OR CITY RECORDED	RK	PG.	REMARKS
1	BOSTON & MAINE RAILWAY, INC.		9+25	11+25 ML	NONE		CROSSING EASEMENT						
* 2	CENTRAL VERMONT RAILWAY, INC.		9+25 17+70	11+25 ML 21+25 RT	NONE NONE		CROSSING EASEMENT SLOPE RIGHTS (D.I.A.) DISEN						
3	TOWN OF HARTFORD		10+00	22+50 RT	NONE								
4	GEOFFREY & FENISIA A. WALSH		12+83	16+39 ML	1.52 ALA	NONE							CAMP
5	ALBERT L. & HELEN B. LUCE		10+00	11+75 RT	0.1A	402.9A							
N/A	WILLIAM F. LUND, FLORENCE B. MILLER & RUTH H. BENDIS												
6A	ELIZABETH A. WALSH		10+00 RT	13+22 ML	0.8A	110.2A							
B			18+40	22+50 RT	1.0A								
C			10+40 LT	45+11 RT	88.0A LA		ALL RT. E. IN SPRING IS USUALLY						LOSS OF ACCESS (C.A.O.A.)
7	WINSOR C. & BERTHA C. BRONN		43+54 ML	66+00 RT	18.3 ALA	450.9 ML							
			54+50 ML RT				DRAINAGE						
			56+50 ML RT				DRAINAGE						
			53+50 ML RT				DRAINAGE						
			59+00 ML RT				DRAINAGE						
			59+50 ML RT				DRAINAGE						
			61+00 ML RT				DRAINAGE						
			62+50 ML RT				DRAINAGE						
* 2A	CENTRAL VERMONT RAILWAY, INC.		10+10 ML	17+90 SL	0.34 AL	N/A							
B			8+95 ML	18+10 SL	0.83 AL								
			9+00	11+00 LT			CULVERT						
			14+00 SL	15+00 SL			SLOPE RIGHTS (STONE FILL) (C.A.O.A.)						
50A	WILLIAM F. LUND & RUTH H. BENDIS		25+83 RT	26+75 RT	0.12 AL	0							SPRING & RESERVOIR
B	FLORENCE B. MILLER		27+80 RT	33+70 RT	0.12 AL								SPRING

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1		TWO PARCELS ADDED # 2A & B	5-29-64	S.F.F.	
2		TWO PARCELS ADDED # 5A & B	5-29-64	S.F.F.	

LEGEND

1/18/63
8/20/63

----- FARMING WITHOUT ACCESS
----- PROPERTY LINES
----- PRESENT R.O.W.

----- SLOPE STOPS
----- PROPERTY LINES

APPROVED: *[Signature]* 8/20/63
APPROVED: *[Signature]* 8/20/63
APPROVED: *[Signature]* 8/20/63
HARTFORD-ROYALTON I-80-113 189-1/3
HARTFORD SECTION

9

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
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	PC	REMARKS	
5A B C	WENSON C. & PERTHA C. BROWN	20	65+95 EB 67+20 EB 69+00 EB 69+55 WB	67+50 WB 12+45 TD RT 15+00 EP 71+95 WB RT.	0.17± 2.9A± 3.9A±	450.9A±	DITCH & DRAINAGE						LIMITED ACCESS	
5A E	SETH E. & ALICE M. BLANCHARD	20	63+70 EB 65+00 EP 65+50	65+25 EP 66+50 WB 70+95 WB RT.	1.1± 1.5±	10.5A±	DITCH & DRAINAGE						LIMITED ACCESS	
10A B C	HELEN E. JAMESON & CLAYD M. JAMESON	20/23 20	7+75 WB 8+55 TRAD 83+09 86 86 75+65 EB	91+00 EP 10+50 TRAD RT. WB RT. 76+32 EB	16.46A± 0.1A± 0.04A±	19.1A±	DRAINAGE DRAINAGE						LIMITED ACCESS	
11	STANLEY E. & CATHEEN A. RICE	23	89+35 WB 92+00 WB RT. 95+50 WB RT. 99+50 WB RT. 102+50 WB RT. 107+50 WB RT. 110+00 WB RT.	123+35 WB RT.	32.5±	72.5A±	DRAINAGE DRAINAGE DRAINAGE DRAINAGE DRAINAGE DITCH							LIMITED ACCESS
12A B	JOHN W. & MARTIN H. GATES	27	114+00 WB 118+00 WB RT. 117+00 WB RT. 120+26 WB	110+26 WB 10+00 WB RT. 0.1A± 123+45 WB	0.4A± 0.8A±	16.5A±	DITCH CULVERT & DRAINAGE DRAINAGE						LIMITED ACCESS	
13	EVERETT M. & DORIS H. CHASE	27	111+22 WB	120+01 WB	0.6A±	1.1A±							LIMITED ACCESS	
14	WILFRED J. & JAVIS L. VERDEMET	27	103+05 EP	103+00 EP	2025 FT	1.7A±							SEPTIC - LIMITED ACCESS	
15	FRY W. FORDON, FRED W. FORDON & NATANIEL DREW FORDON (TEXAS STA.)		60+95	LT FL.			CULVERT							
50A B	JOHN W. & NANCY A. BROWN	20	73+45 EB LT 73+80 EB LT	75+65 EB RT 11+20 EB RT.	0.53A± 0.16A±	0.42A±							LIMITED ACCESS	
57	COURT MANCHE, ROGER J.		9+55 E 11+20 LT 11+00 LT 12+45 LT	12+64 LT 12+70 LT	0.18A± 1.22A±		SLOPE (2100 SF) DITCH & DRAINAGE DRIVE							
58	LOWELL, CHARLES W. & PATRICIA A.		9+55 RT 11+13 RT 11+70 RT 10+58 RT 11+50 RT	12+52 RT 12+40 RT 12+00 RT	0.17A± 2.53A±		DRIVE (T) DRIVE (T) SLOPE (2900 SF) (T) SLOPE (2600 SF) (T)							

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	11	CHANNEL RIGHTS 74+25-75+00 EB	5-12-64	S.T.E.	J.S.
		JOHN W. & NANCY A. BROWN #55			
2	27	PARCEL #11 AREA REDUCED 2.1 ACRES	5-12-64	DDN	J.S.
3	27, 28	PARCEL #12 B ROAD, AREA INCREASE	5-12-64	DDN	J.S.
		OF 0.80 AC.			
4	27	PARCEL #13 AREA INCREASE FROM	5-12-64	DDN	J.S.
		1500 SF TO 0.3 AC.			
		CULVERT & DITCH RIGHTS REMOVED			
5	11	PARCEL #55 A & 55 B ADDED.	5-12-64	S.T.E.	J.S.
6	11	PARCEL #35 ADDED DUE TO	12-22-64	M.M.G.	J.S.
		CHANGE IN PROPERTY LINE. C.R.			
7	11	PARCEL #88 TAKE REDUCED 0.2 AC	12-22-64	M.M.G.	J.S.
		DUE TO CHANGE IN PROPERTY			
		LINE.			
8	11, 14	PARCEL #10 - PORTION OF 10A	1-27-65	M.M.G.	J.P.B.
		CHANGED TO 10C (NON-LIMITED			
		ACCESS) ON TR #47 FOR TURN-			
		AROUND.			
9	11	PARCEL #55 TAKE REDUCED ON	1-27-65	M.M.G.	J.P.B.
		55 A AND ELIMINATED CHANNEL			
		RIGHTS.			
10		PARCEL #51 & 58 ADDED	2-11-65	E.L.T.	J.S.
11	11, 14	PARCEL 10-REM. ON DETAIL SHEET	4-2-65	M.M.G.	J.S.
		CORRECTED TO COMPLY WITH			
		PROP. FOLDER DATA (PER C.O. #20)			
12		Changed all Sheets to 1964 Standard	5-5-65	B.E.B.	L.C.J.
		Specifications			
12		Revised Special Ditch Sta 62+00-	5-5-65	D.L.B.	L.C.J.
		63+50			
12		Corrected Bridge Stations	5-5-65	B.E.B.	L.C.J.
13		Parcel #37 Added drainage right	6-8-65	M.M.D.	J.S.
		per change order #71			
14	37A	Parcel #58 Added septic systems	6-8-65	M.M.D.	J.S.
		to plans per change order #60			
		(with attached sketch)			
15	37A	Parcel #57 Added dry rubble masonry	6-8-65	M.M.D.	J.S.
		wall per change order #61			
		(with attached sketch)			

LEGEND

- TAKING WITHOUT ACCESS
- TAKING WITHOUT ACCESS ALONG PROPERTY LINES
- TAKING WITH ACCESS
- PRESENT R.O.W.
- SLOPE DIGITS
- PROPERTY LINE
- TOP OF CUT
- TOP OF FILL

of Glen
12/16/65

APPROVED: T. C. Bancroft 12-11-65
 PREPARED BY: G. W. Lane 12-16-65
 CHECKED BY: W. H. Wright 12/16/65
 HARTFORD I 89-1(13)
 U.S.S. 20 U.S. 4
 1/20

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
RIGHT-OF-WAY PLANS
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3B	Hartford, Town of		28175 E.B. RL	31450 TR 47G									All right title & interest in Town Road # 47 (130)
3C			2150 TR 46G	31451 TR 48G									All right title & interest in Town Road # 48 (130)
3E			1150 TR 10G	23150 TR 38G									All right title & interest in Town Road # 49 (130)
3F			1139 TR 47	1350 TR 47	0.2A								All right title & interest in Town Road # 50 (130)
16	Hill, Edwin & Mervyn		21+57 E.B. LL	41+72 E.B. LL	16.1A	342A	Drainage Drainage Drainage Drainage						Loss of Access 16.4A Spring Spring Spring Shed Ten house Reservoir
17	Phillips, Edwin D. & Irene J.		141+30 N.B. RL	151+50 E.B. LL	6.9A	13.6A	Drainage Drainage Drainage						Loss of Access 7.2A Spring
18	Vincent, Noel J. & Merv		145+00 N.B. RL	149+40 E.B. LL	1.3A	9.2A	Drainage						
19	Chinstead, Chester O. & Marie J.		147+20 N.B. RL	151+40 N.B. RL	0.9A	2.0A	Drainage						Spring
20	Smith, Raymond A. & Lucy E.		151+47 N.B. RL	163+00 E.B. LL	9.4A	43.6A	Drainage Drainage Water Pipe Crossing Drainage Drainage Drainage						Loss of Access 3.0A
21	Smith, Lawrence W. & Alta M.		163+00 N.B. RL	170+38 E.B. LL	1.5A	5.5A	Drainage Drainage						Loss of Access 0.4A
22A	Mackay, Vernon S. & Janet B.		168+15 E.B. LL	181+10 E.B. LL	0.3A	12.7A	Drainage Slope (875 SF)(T) Slope (2625 SF)(T) Drive (T)						
23A	Grover, Carlos L. & Clara R.		164+78 N.B. RL	179+07 N.B. RL	1.1A	4.2A							
24	Williams, William C. & Dora A.		26417 TR 46G	28507 TR 46G	0.16A	2.1A	Slope (2300 SF)						

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
8a	29.31	Parcel #16 Change in ownership from Clair M. Jr. & Marge L. Lovell to Edwin & Mervyn Hill.	12-1-64	MMB	JL
9a	29.31	Parcel #40 Fountain's water rights change from Lovell's to Hill's spring.	12-1-64	MMB	JL
10a		Parcel's # 22B, 23B & 24 changed due relocation TR #46	2-11-65	WJH	JL
11a		Parcel #37B Increased to include area in dispute 0.9A	5-12-65	JRD	JL
16		Parcel #58 Taking reduced 0.08A Temporary slope rights added 2620 Temporary slope rights increased 800 Temporary drive added Per order H.F. Radigan 8-4-65	8-6-65	JRD	4PR
17		Parcel #22B Temporary slope rights added 2625 Temporary slope rights decreased 1925 Temporary drive added Per order H.F. Radigan 8-4-65	8-6-65	JRD	4PR
18		Parcel #27 Temporary slope rights added 450 Temporary slope rights decreased 220 Per order H.F. Radigan 8-4-65	8-6-65	JRD	4PR

LEGEND

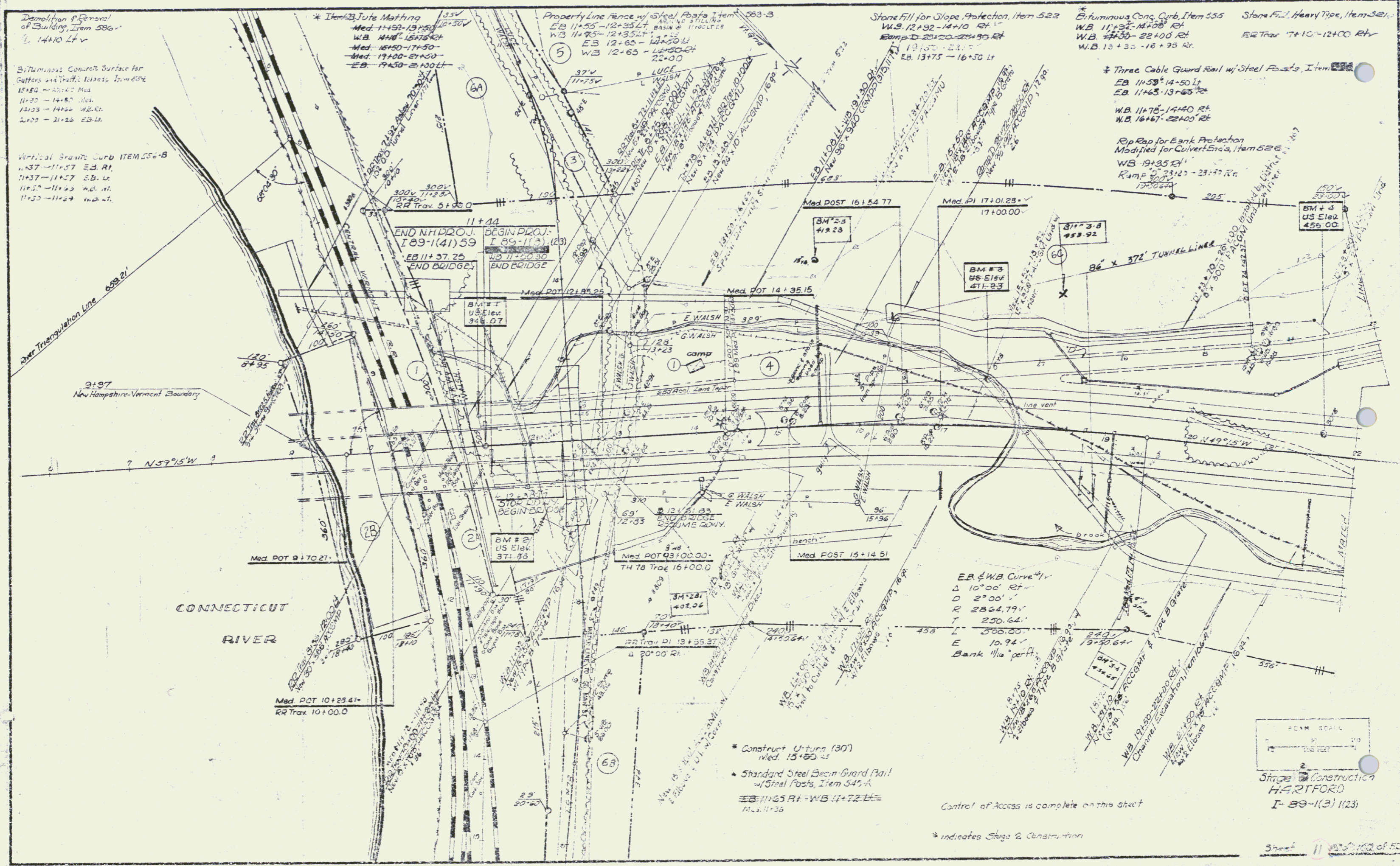
MADE BY S. L. Edwards DATE 1-30-64
CHECKED BY J. R. Phillips DATE 1-30-64

--- TAKING WITHOUT ACCESS
--- TAKING WITHOUT ACCESS ALONG PROPERTY LINES
--- TAKING WITH ACCESS

SR SR SLOPE RIGHTS
--- PROPERTY LINE
Δ Δ Δ TOP OF CUT
○ ○ ○ TOE OF SLOPE

APPROVED T. C. Proulx DATE 1-30-64
PROGRAM SUPERVISOR
APPROVED J. M. Lane DATE 1/21/64
APPROVED J. R. Phillips DATE 1-31-64
R.O.W. DIRECTOR
HARTFORD-ROYALTON 1-39- (113) US 20 (15)
SHEET 2 OF 4 SHEETS

PLAN
 SCALE
 DATE



Demolition & Removal of Building, Item 586
 1. 1440 Lt

Bituminous Concrete Surface for Gutters and Traffic Islands, Item 606
 1586 - 21+00 Med
 11+35 - 14+80 Med
 14+33 - 14+50 Med
 21+25 - 21+25 EB-Lt

Vertical Granite Curb ITEM 556-B
 11+37 - 11+57 EB-Rt
 11+37 - 11+57 EB-Lt
 11+57 - 11+63 Med-Rt
 11+57 - 11+63 Med-Lt

* Item 23 Lute Matting
 Med 11+92-12+30
 WB 11+95-12+35 Lt
 Med 16+50-17+50
 Med 17+00-21+50
 EB 17+50-21+00 Lt

Property Line Fence w/ Steel Posts, Item 583-B
 EB 11+55-12+35 Lt
 WB 11+95-12+35 Lt
 EB 12+65-14+50 Lt
 WB 12+65-22+00 Lt

Stone Fill for Slope Protection, Item 522
 WB 12+92-14+10 Rt
 Ramp D 23+20-24+90 Rt
 13+75-24+75
 EB 13+75-16+50 Lt

* Bituminous Conc. Curb, Item 555
 WB 11+32-14+00 Rt
 WB 17+30-22+00 Rt
 WB 15+35-16+95 Rt

Stone Fill Heavy Type, Item 521
 EB Trac 7+10-12+00 Rt

* Three Cable Guard Rail w/ Steel Posts, Item 545
 EB 11+33-14+50 Lt
 EB 11+63-13+65 Rt
 WB 11+75-14+40 Rt
 WB 16+67-22+00 Rt

Rip Rap for Bank Protection Modified for Culvert Ends, Item 526
 WB 19+35 Rt
 Ramp E 23+25-23+75 Rt
 19+00-23+75

11+44
 END NH D.D.O. I 89-1(4) 59
 BEGIN PROJ. I 89-1(1) 23
 EB 11+37 25
 END BRIDGES
 WB 11+20 50
 END BRIDGE

BM #1
 US Elev.
 348.07

BM #2
 US Elev.
 418.23

Med POST 16+54.77
 Med PI 17+01.23

Med POST 17+00.00

BM #3
 US Elev.
 411.23

BM #4
 US Elev.
 455.00

9+97
 New Hampshire-Vermont Boundary

CONNECTICUT RIVER

Med POT 9+70.27
 RR Trac 10+00.0

Med POT 10+29.41
 RR Trac 10+00.0

Med POT 12+85.25

Med POT 14+35.15

Med POT 16+00.00
 TH 78 Trac 16+00.0

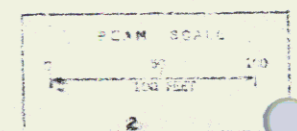
Med POST 15+14.51

EB & WB Curve 41
 Δ 10°00' Rt
 D 2°00'
 R 2864.79'
 T 250.64'
 L 250.00'
 E 10.74'
 Bank 1/16' per ft

* Construct U-turn (30)
 Med. 15+00-45
 * Standard Steel Beam Guard Rail w/ Steel Posts, Item 545-A
 EB 11+25 Rt - WB 11+72 Lt
 M.S. 11-36

Control of Access is complete on this street

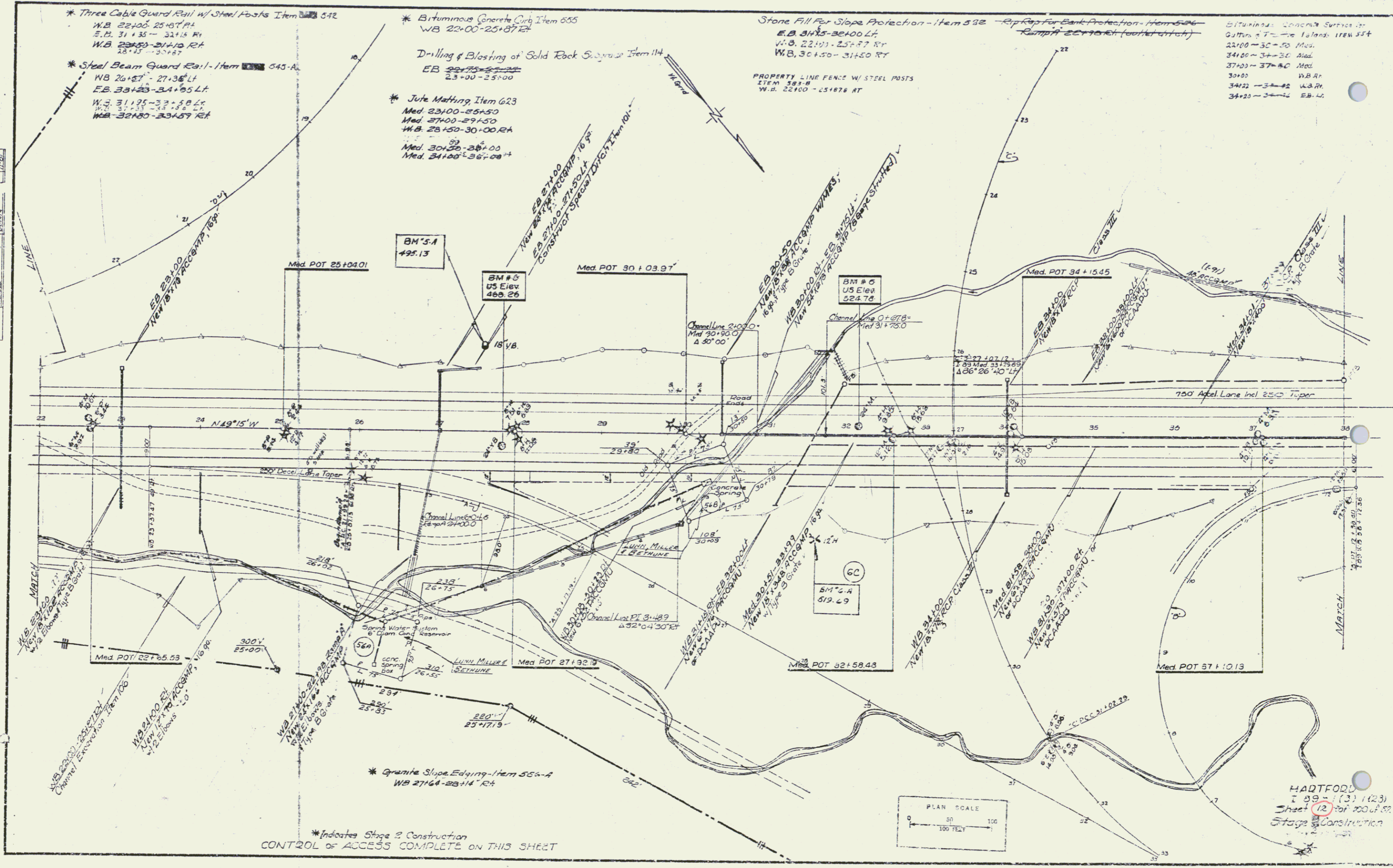
* indicates Stages & Construction



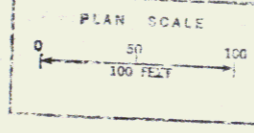
Stage Construction
 HERTFORD
 I-89-1(3) 1(23)

Sheet 11 of 55

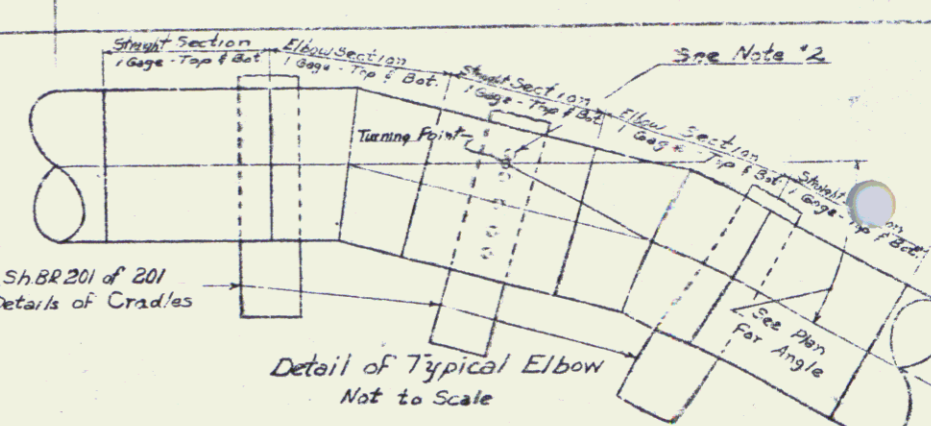
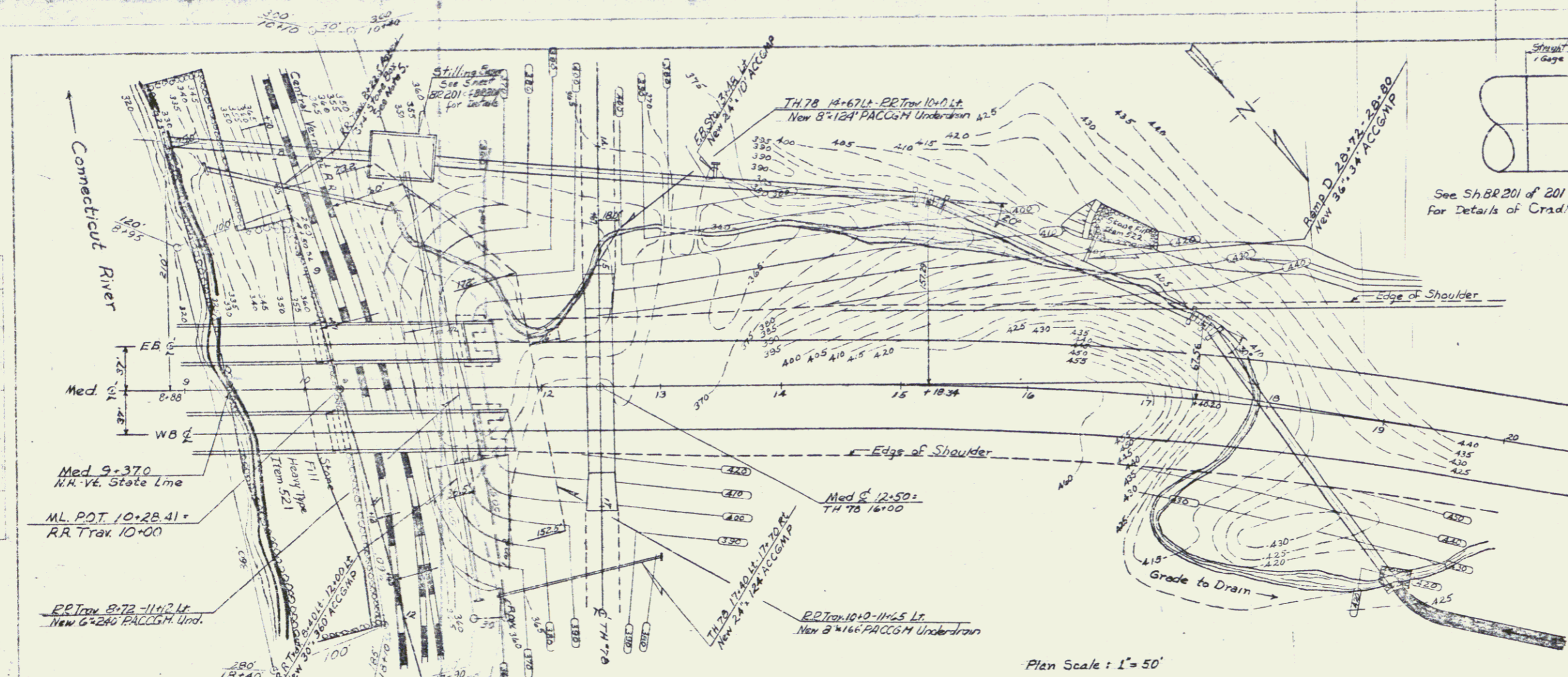
PLAN	DATE	BY
NO. 1123	11/23	W. J. ...
NO. 1123	11/23	W. J. ...
NO. 1123	11/23	W. J. ...



*Indicates Stage 2 Construction
CONTROL OF ACCESS COMPLETE ON THIS SHEET

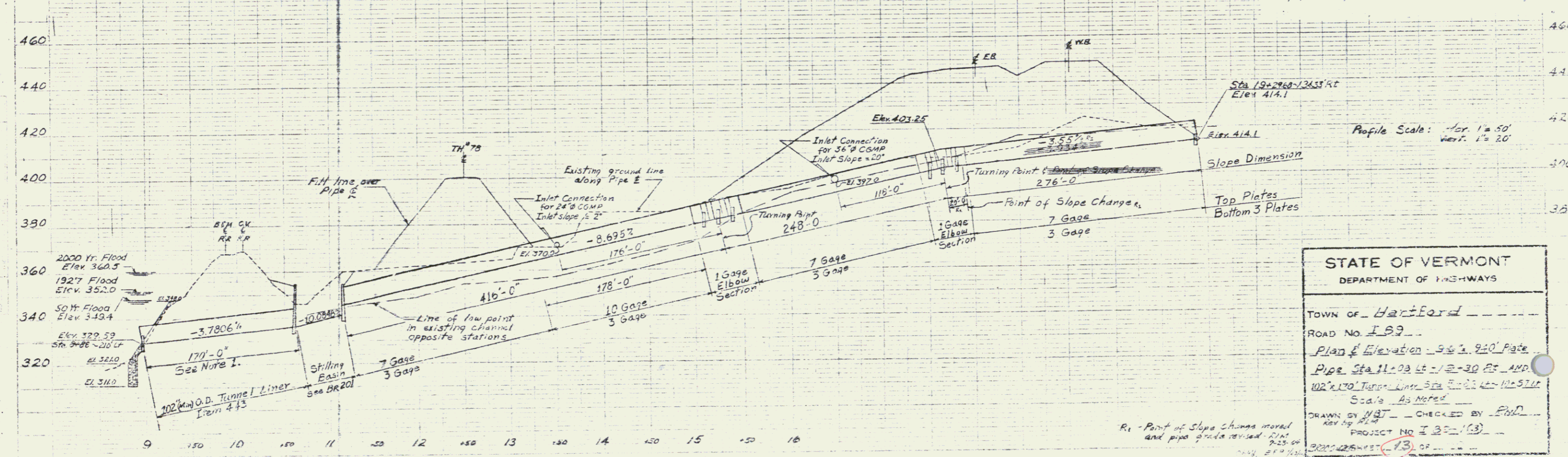


HADTFORD
189-1(3) (23)
Sheet 12 of 100 of 50
Stage 2 Construction



- General Notes**
- This section of pipe shall be as specified in Item 443 Galvanized Structural Steel Tunnel Liner and as detailed on these plans.
 - Holes for standard anchor bolts shall be provided as noted at all cradles and headwalls. The holes shall be punched prior to galvanizing the section.
 - Include the cost of the 36" and the 24" x 10" Inlet Connections in the price bid for the 96" CGMP.
 - The contractor shall submit complete shop details of the CGMP to the State and shall receive written approval prior to the start of fabrication.
 - Fill the 4x3 Stone Box @ 10% C.C. with material conforming to Item 202, Sub-Base 12 Sand, Plug both ends of box with 1-0" thick plain concrete wall (Item 401-B).
 - Minimum Section Modulus of Tunnel Liner shall be 0.076 in³ per inch of plate width (averaged). The thickness of plate used shall be approved by the Engineer. All bolts shall be not less than 5/8" ASTM A325, and hot-dip galvanized.
 - Openings for grouting shall be provided in at least every third top plate, which shall be trapped for a standard pipe and fitted with C.I. pumps.

Plan Scale: 1" = 50'



Profile Scale: For 1" = 50' vert. 1" = 20'

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF Bartford

ROAD NO. I 89

Plan & Elevation - 9 & 10 Page

Pipe Sta. 11+00 to 12+30 of AMP

102" (min) O.D. Tunnel Liner Sta. 11+00 to 12+30

Scale: As Noted

DRAWN BY NBT CHECKED BY PLD

PROJECT NO. I 89-163

DATE: 11/13/63

R1 - Point of slope change moved and pipe grade revised - R14
11/13/63

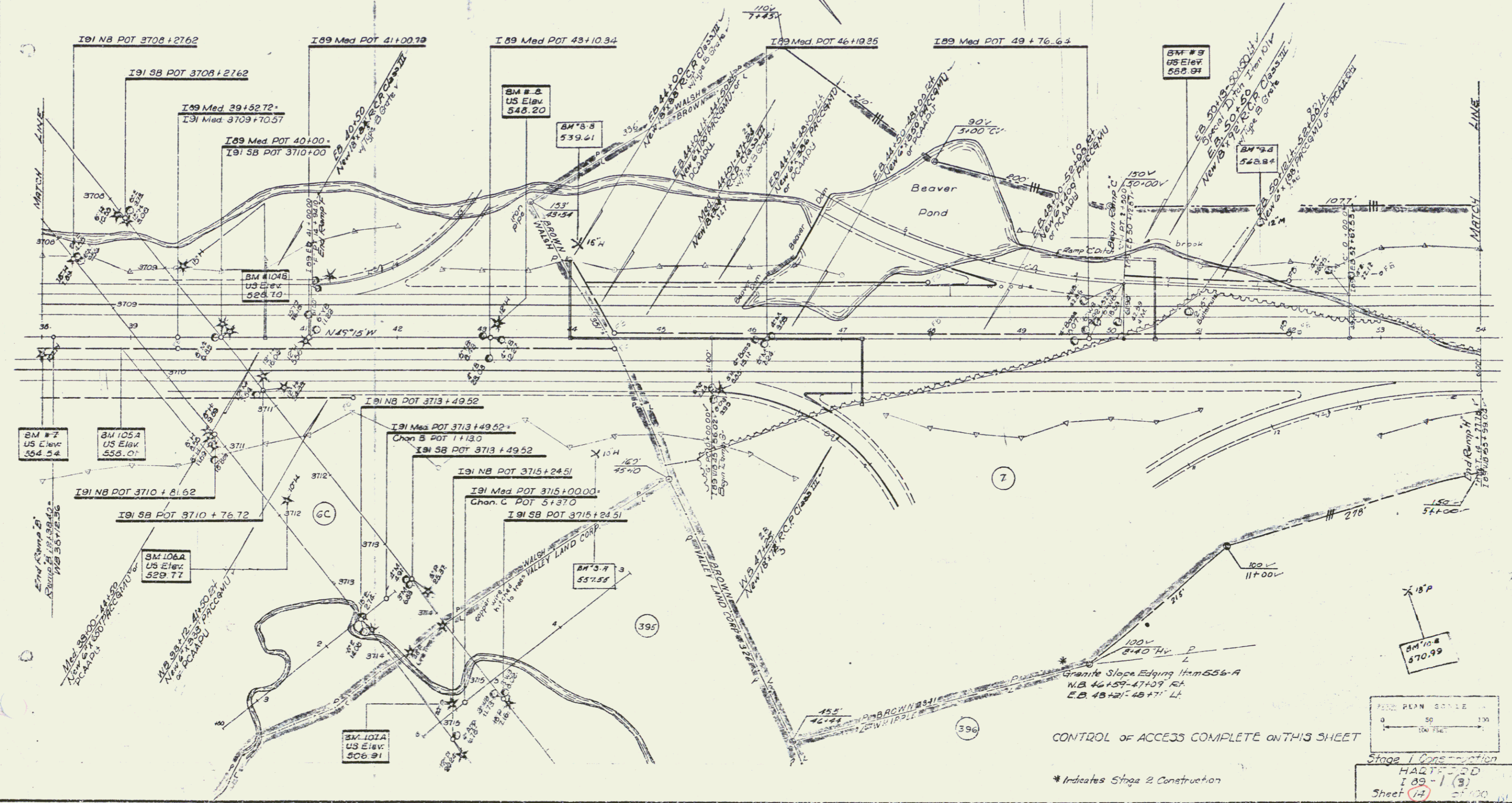
Elevation Control Surface for
 Station 3 Truss Island
 40+50 - 40+50 Med.
 44+50 - 44+50 Med.
 46+50 - 47+50 Med.
 51+50 - 51+50 Med.

* Steel Beam Guard Rail Item 547
 E.B. 38+18-40+40th Lt.
 E.B. 38+52-40+75 Rt.
 W.B. 38+52-40+67 Rt.
 W.B. 38+57-40+52th Lt.
 E.B. 49+10-50+36 Rt.

* Jute Matting Item 623
 Med. 40+50-42+50
 Med. 44+00-46+00
 Med. 50+50-53+00
 Med. 47+25-49+00
 Med. 38+25-39+75
 Med. 37+22-37+55

Drilling and Blasting of Solid
 Rock Subgrade Item 114
 E.B. 47+00-48+00
 E.B. 52+22-54+00

Property Line Fence w/ Steel Posts Item 533
 E.B. 50+13-54+00 Lt.
 The above-stationed fence to be erected prior to the commencement of construction



PERIOD PLAN SCALE
 0 50 100 FEET
 Stage 1 Construction
 HAZARD
 I 91 - 1 (3)
 Sheet (17) of 20

PLAN	NO.	DATE
189-11(3)	10	11/23
189-11(2)	9	11/23
189-11(1)	8	11/23
189-11(0)	7	11/23
189-11(0)	6	11/23
189-11(0)	5	11/23
189-11(0)	4	11/23
189-11(0)	3	11/23
189-11(0)	2	11/23
189-11(0)	1	11/23

* Bituminous Concrete Curb-Item 555
 55+50-62+00 W.B. RT
 56+50-61+00 EB LT
 59+99-55+00 WB

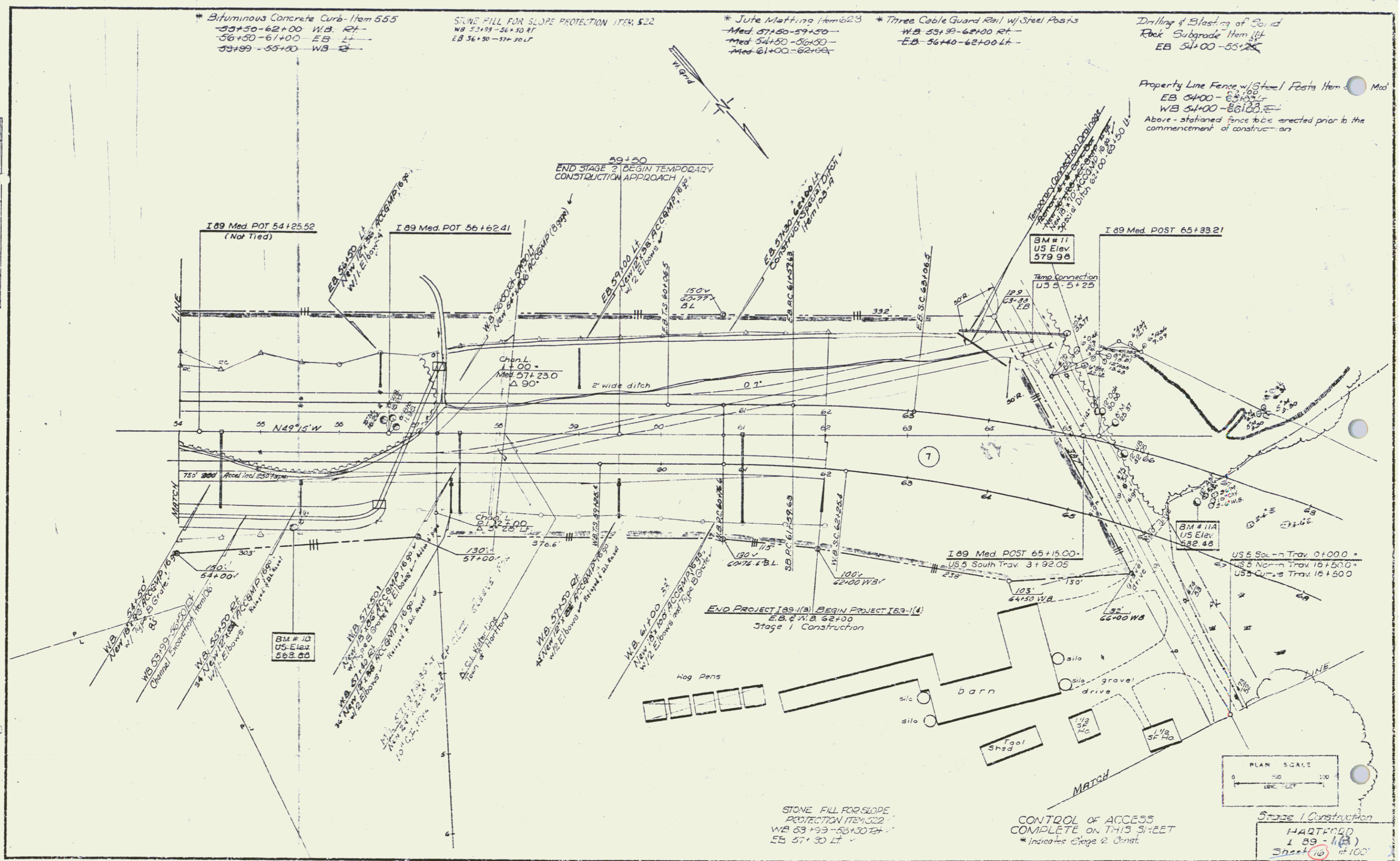
STONE FILL FOR SLOPE PROTECTION ITEM 522
 WB 53+93-56+50 RT
 EB 56+30-57+30 LT

* Jute Matt. no Item 623
 Med. 57+50-59+50
 Med. 54+50-56+50
 Med. 61+00-62+00

* Three Cable Guard Rail w/ Steel Posts
 WB 53+99-62+00 RT
 EB 56+40-62+00 LT

Drilling & Blasting of Solid
 Rock Subgrade Item 114
 EB 54+00-55+00

Property Line Fence w/ Steel Posts Item 10
 EB 54+00-65+00
 WB 54+00-86+00
 Above-stationed fence to be erected prior to the commencement of construction



END STAGE 2 BEGIN TEMPORARY CONSTRUCTION APPROACH

END PROJECT 189-11(3) BEGIN PROJECT 189-11(4)
 E.B. & W.B. 62+00
 Stage 1 Construction

STONE FILL FOR SLOPE PROTECTION ITEM 522
 WB 53+93-56+50 RT
 EB 57+30 LT

CONTROL OF ACCESS COMPLETE ON THIS SHEET
 * Indicates Stage 2 Const.

Stage 1 Construction
 HARTFORD
 189-11(3)
 Sheet 10 of 100

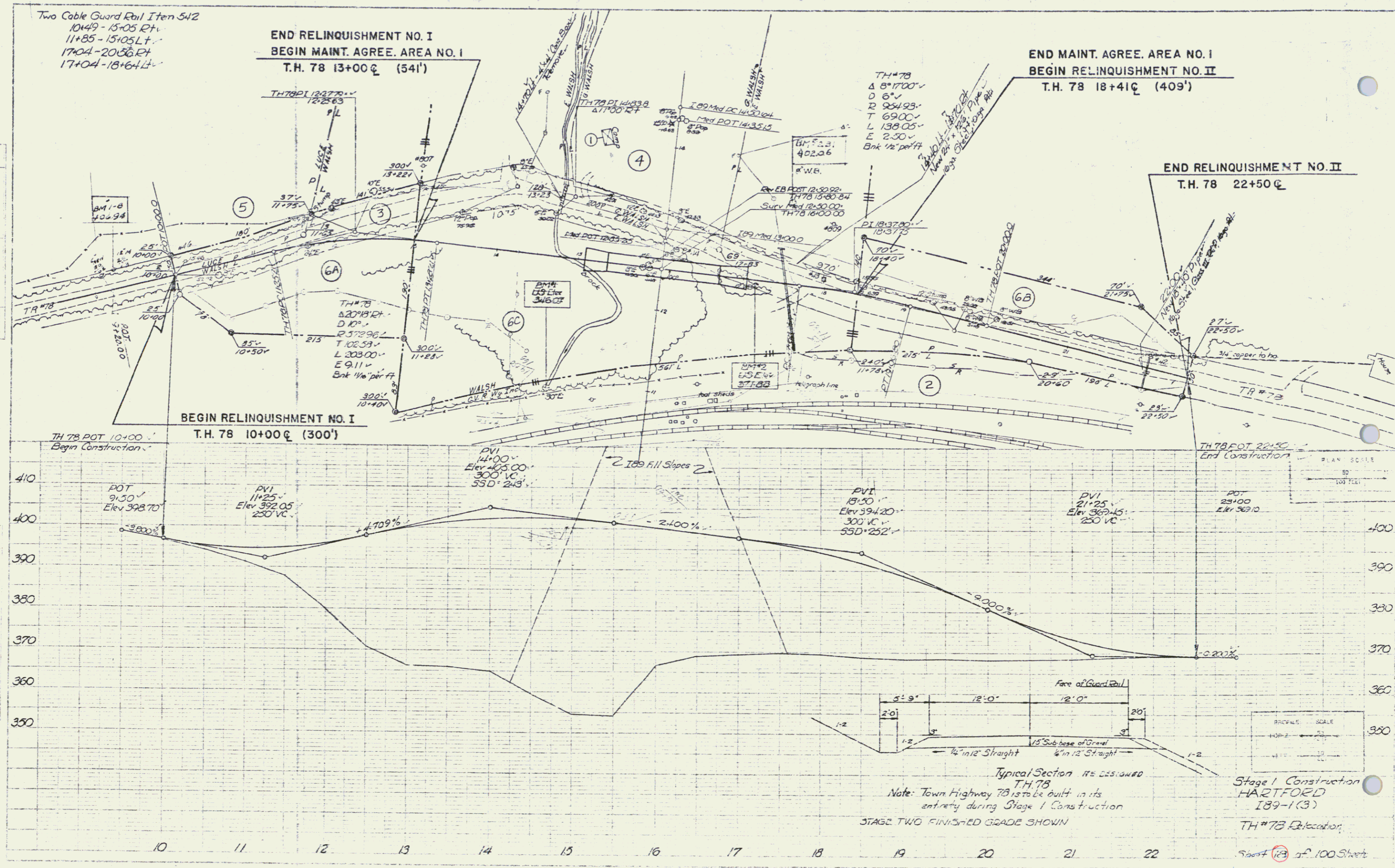
Two Cable Guard Rail Item 542
 10+49 - 15+05 P.T.
 11+85 - 15+05 L.T.
 17+04 - 20+56 P.T.
 17+04 - 18+64 L.T.

END RELINQUISHMENT NO. I
 BEGIN MAINT. AGREE. AREA NO. I
 T.H. 78 13+00 C (541')

END MAINT. AGREE. AREA NO. I
 BEGIN RELINQUISHMENT NO. II
 T.H. 78 18+41 C (409')

END RELINQUISHMENT NO. II
 T.H. 78 22+50 C

BEGIN RELINQUISHMENT NO. I
 T.H. 78 10+00 C (300')



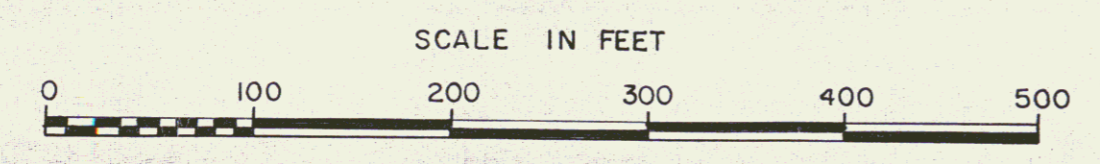
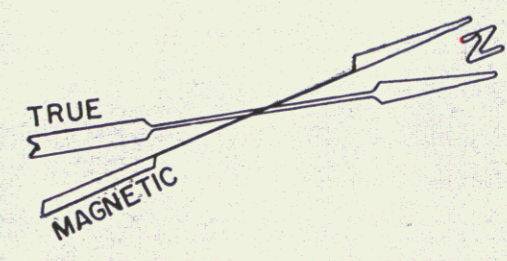
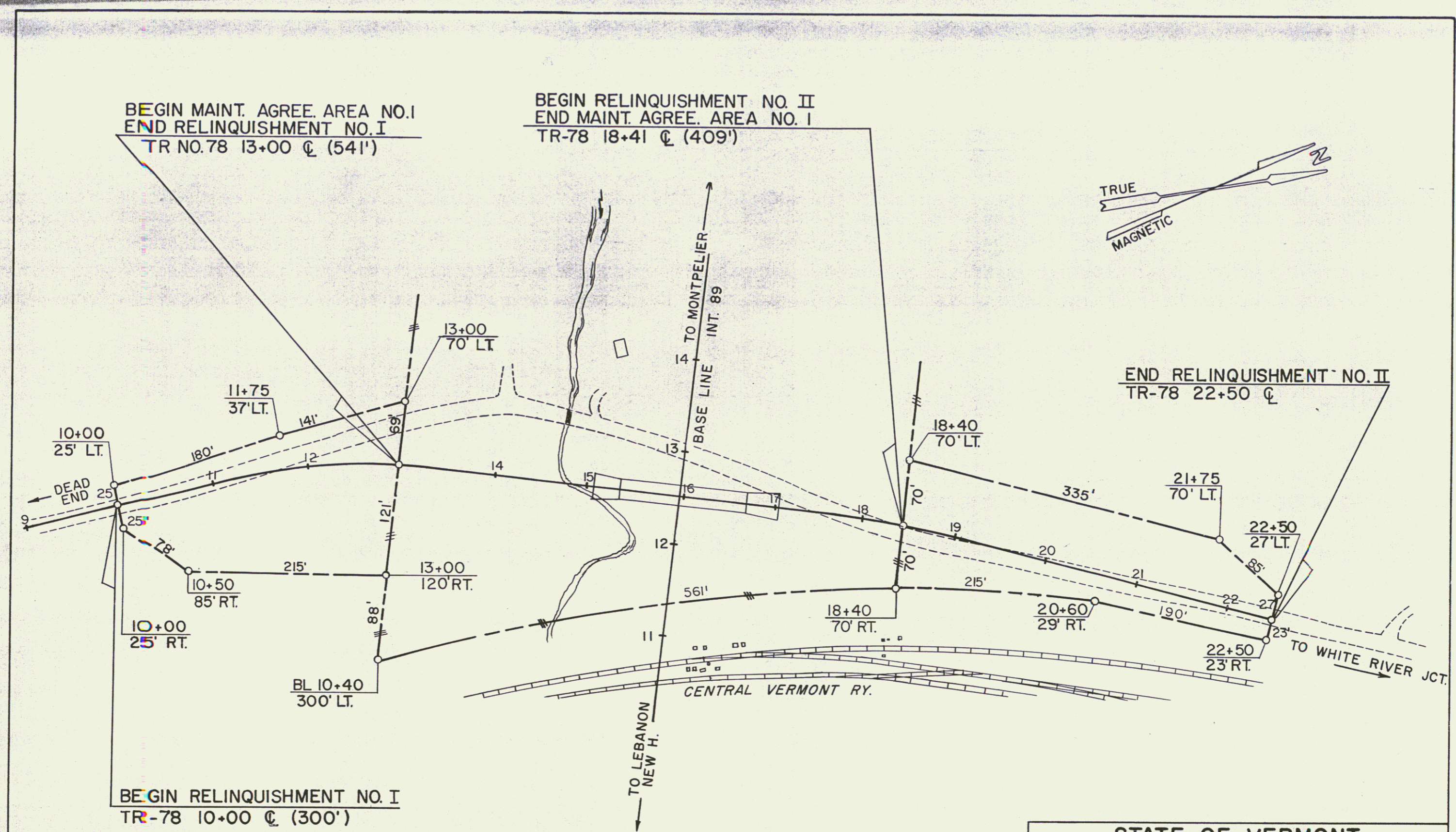
PLAN SCALE
 1" = 40'

PROFILE SCALE
 1" = 10'

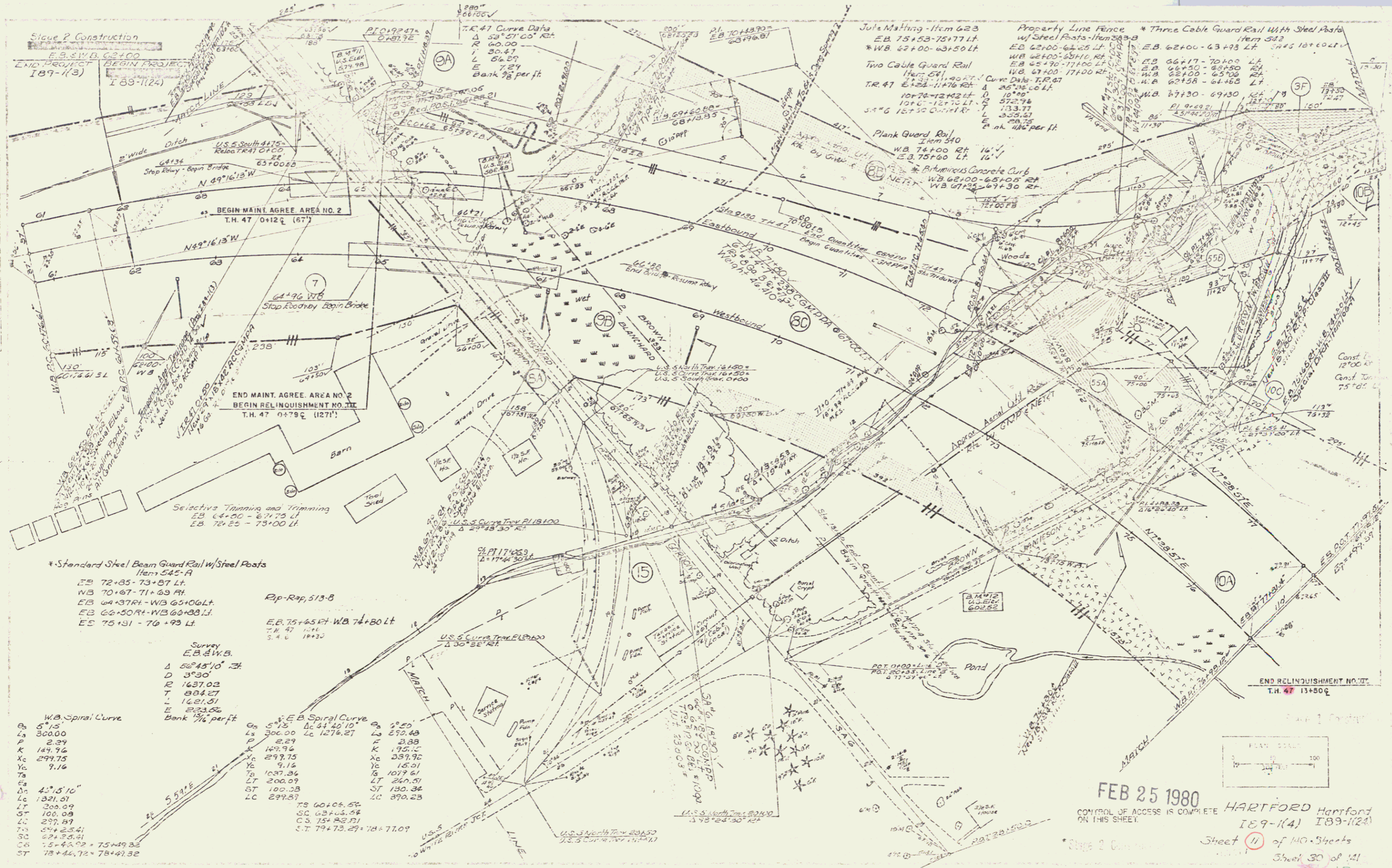
PLAN SCALE
 1" = 40'

PROFILE SCALE
 1" = 10'

Typical Section as Designed
 T.H. 78
 Note: Town Highway 78 is to be built in its
 entirety during Stage 1 Construction
 STAGE TWO FINISHED GRADE SHOWN
 Stage 1 Construction
 HARTFORD
 189-1(3)
 T.H. 78 Elevation
 Sheet 189 of 100 Sheets



STATE OF VERMONT
AGENCY OF TRANSPORTATION
 RELINQUISHMENT & MAINTENANCE PLATS
 TOWN OF HARTFORD (18A)
 TOWN ROAD NO. 78
 PROJECT HARTFORD I-89-1(13)
 APPROX. SCALE 1"=100' | DATE 4/1/74 | DRAWN BY WHF



Slope 2 Construction
 END PROJECT
 BEGIN PROJECT
 I 89-1124

*Standard Steel Beam Guard Rail w/Steel Posts
 Item 545-A
 EB 72+85 - 73+87 Lt.
 NB 70+67 - 71+69 Rt.
 EB 64+37 Rt - WB 65+06 Lt.
 EB 66+50 Rt - WB 66+33 Lt.
 ES 75+31 - 76+93 Lt.

Rip-Rep 513-B
 EB 75+65 Rt - WB 74+80 Lt.
 T.H. 47 18+32
 S.A.G. 18+32

Survey
 E.B. & W.B.
 Δ 56°45'10" ZH
 D 3°30'
 R 1637.02
 T 804.27
 L 1621.57
 E 223.52
 Bank 1/4 per ft

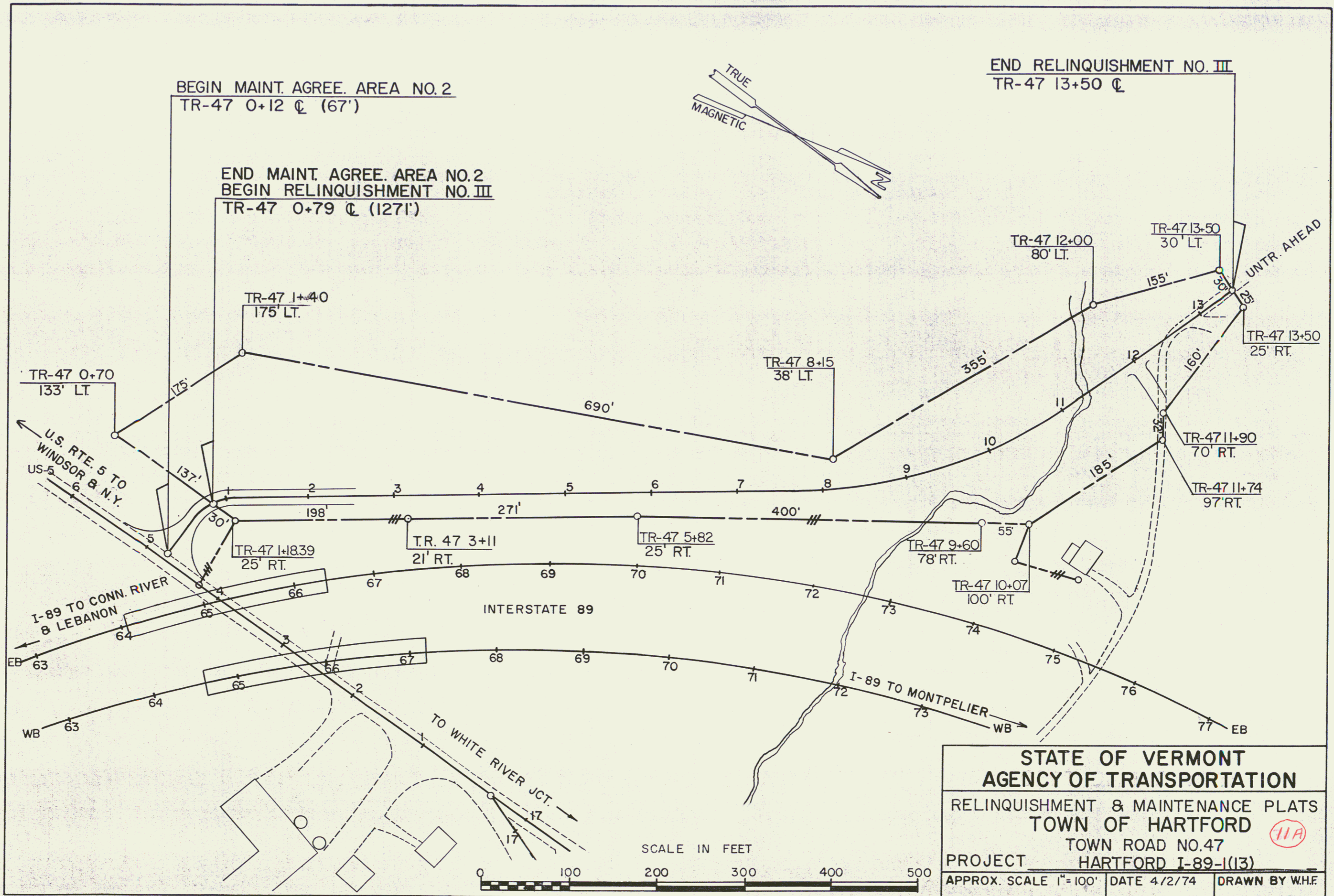
W.B. Spiral Curve

Bs	5'15"
Ls	300.00
P	2.29
K	149.76
Xc	299.75
Yc	9.16
Ts	1637.02
Lt	200.09
Lc	1321.51
St	100.09
Lt	279.89
Lc	54+23.41
St	62+35.61
Cs	75+42.22 = 75+49.32
St	78+46.72 = 78+49.32

E.B. Spiral Curve

Bs	5'15"	Bc	41'20'10"	Ls	275.69
Ls	300.00	Lc	1276.27	F	3.88
P	2.29	F	170.82	Xc	239.70
K	149.76	Xc	15.01	Yc	1077.61
Xc	299.75	Yc	9.16	Lt	260.57
Yc	9.16	Lt	100.09	St	130.34
Ts	1637.02	Lc	299.87	Lc	390.23
Lt	200.09	Ts	60+06.55	Sc	62+45.54
Lc	54+23.41	Lt	63+45.54	Cs	154+82.71
St	62+35.61	Lc	79+73.27 = 78+77.07	St	79+73.27 = 78+77.07
Cs	75+42.22 = 75+49.32	St			
St	78+46.72 = 78+49.32				

FEB 25 1980
 CONTROL OF ACCESS IS COMPLETE
 ON THIS SHEET.
 HARTFORD Hartford
 I 89-1124 I 89-1124
 Sheet 11 of 140 Sheets
 Sheet 30 of 141
 13



Exp. Rep. Item 5-573

EB 83+00 RT-WB 83+09 LT
WB 84+36 LT
EB 86+50 RT-WB 86+86 RT
EB 86+50-86+86 RT
EB 91+55 RT-WB 92+00 LT

Standard Steel Beam Guard Rail
with Steel Posts
Item 543-A
WB 82+07-83+09 RT
EB 84+50-87+52 LT
WB 85+84-86+86 LT
WB 85+84-86+86 RT

Property Line Fence w/Steel Posts, Mod
Item 543-B
EB 77+00-78+10 LT
WB 77+00-72+25 RT
EB 85+50-92+00 LT

Selective Thinning and Trimming
EB 77+00-78+10 LT
WB 87+40-92+00 RT
WB 90+10-92+00 LT
EB 91+25-91+75 LT

Jute Matting-Item 623
WB 82+10-83+10 LT
EB 86+35-86+63 LT
EB 88+50-90+00 LT
EB 91+75-91+98 LT
EB 91+50-92+00 LT

Three Cable Guard Rail with Steel Posts
Item 542
EB 82+50-92+00 RT
WB 82+50-92+00 RT

WB Spiral Curve
Cs 2+30'
Ls 200.00
P 0.73
K 99.99
Xc 199.96
Yc 2.91
Ts 787.20
Es 101.52
Ts 80+92.97
Cs 82+92.97
Cs 94+27.97
ST 96+27.97
ST 96+28.39

Rct WB Curve Data
Δ 33°22'30" Lt
D 2°30'
R 2291.83
T 687.05
L 1385.00
E 100.76
Bank 3% per ft

Survey
E.B. Curve Data

Δ 29°40'55" Lt
D 3°
R 1707.86
T 504.05
L 989.15
E 2.87
Bank 3% per ft
E.B. Curve Data
Cs 57+12
Ls 107+25.85
Lc 20.100
P 2.15
K 108.43
Xc 336.68
Yc 9.70
Ts 412.83
LT 2.472
ST 112.40
ST 325.82
Cs 58.05
Cs 59+11.07
Cs 62+12.08
Cs 69+09.71 = 87+10.88
ST 81+59.71 = 72+19.18



CONTROL OF ACCESS IS COMPLETE
ON THIS SHEET.

DEC 19 1973
HARTFORD I 89-1(24)
I 89-1(4)
Sheet 14 of 140 Sheets
Sheet 32 of 141

Rep. Rep. Item 513.6

EB 95+00 RT - WB 95+00 LT
WB 95+35 - 94+25 LT
EB 95+70 - 95+75 RT
EB 97+00 RT - WB 97+00 LT
EB 102+70 RT - WB 103+00 LT

Property Line Fence With
Steel Posts, Mod. Iron 99A-13
EB 92+00 - 96+00 LT
WB 92+25 - 101+50 RT

Standard Steel Beam 3x4
Curb w. 2" High Base Iron 15-A
EB 95+71 - 96+45 LT

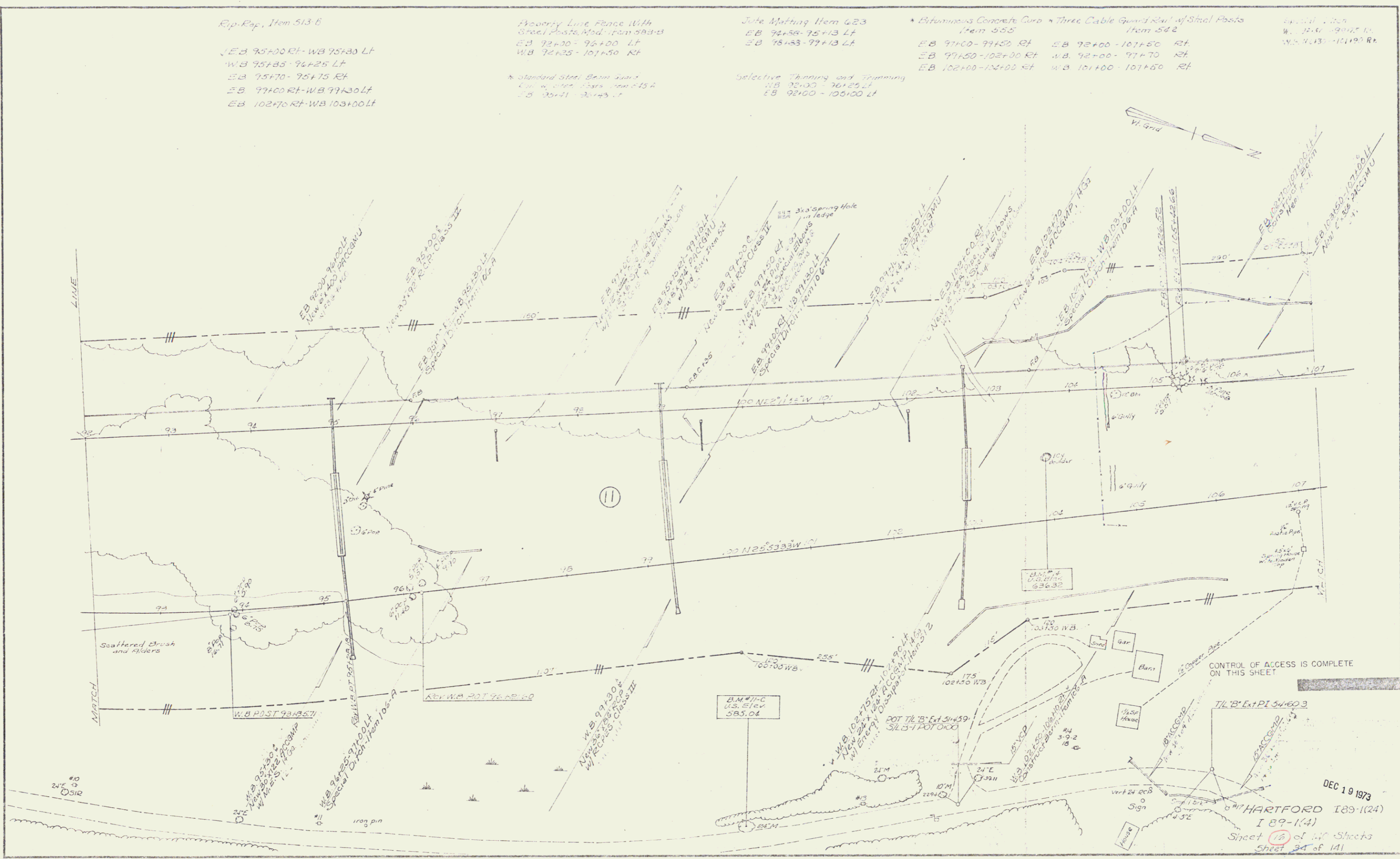
Gate Mating Item 423
EB 94+58 - 95+13 LT
EB 96+33 - 97+13 RT

Selective Thinning and Trimming
WB 92+00 - 96+25 LT
EB 92+00 - 100+00 LT

Continuous Concrete Curb w Three Cable Guards Row of Steel Posts
Item 542
EB 97+00 - 99+50 RT
EB 97+50 - 102+00 RT
EB 102+00 - 104+00 RT

Special Class
WB 101+30 - 101+90 RT
WB 101+30 - 101+90 RT

PLAN
Scale 1" = 40'
North Arrow
Date 12/19/73
Sheet 18 of 141



CONTROL OF ACCESS IS COMPLETE ON THIS SHEET

DEC 19 1973
HARTFORD I 89-1(24)
I 89-1(4)
Sheet 18 of 141 Sheets
Sheet 34 of 141

Demolition of Building 210000
 WB 131+00 to 122+00
 WB 130+00 to 123+00
 WB 130+00 to 123+00

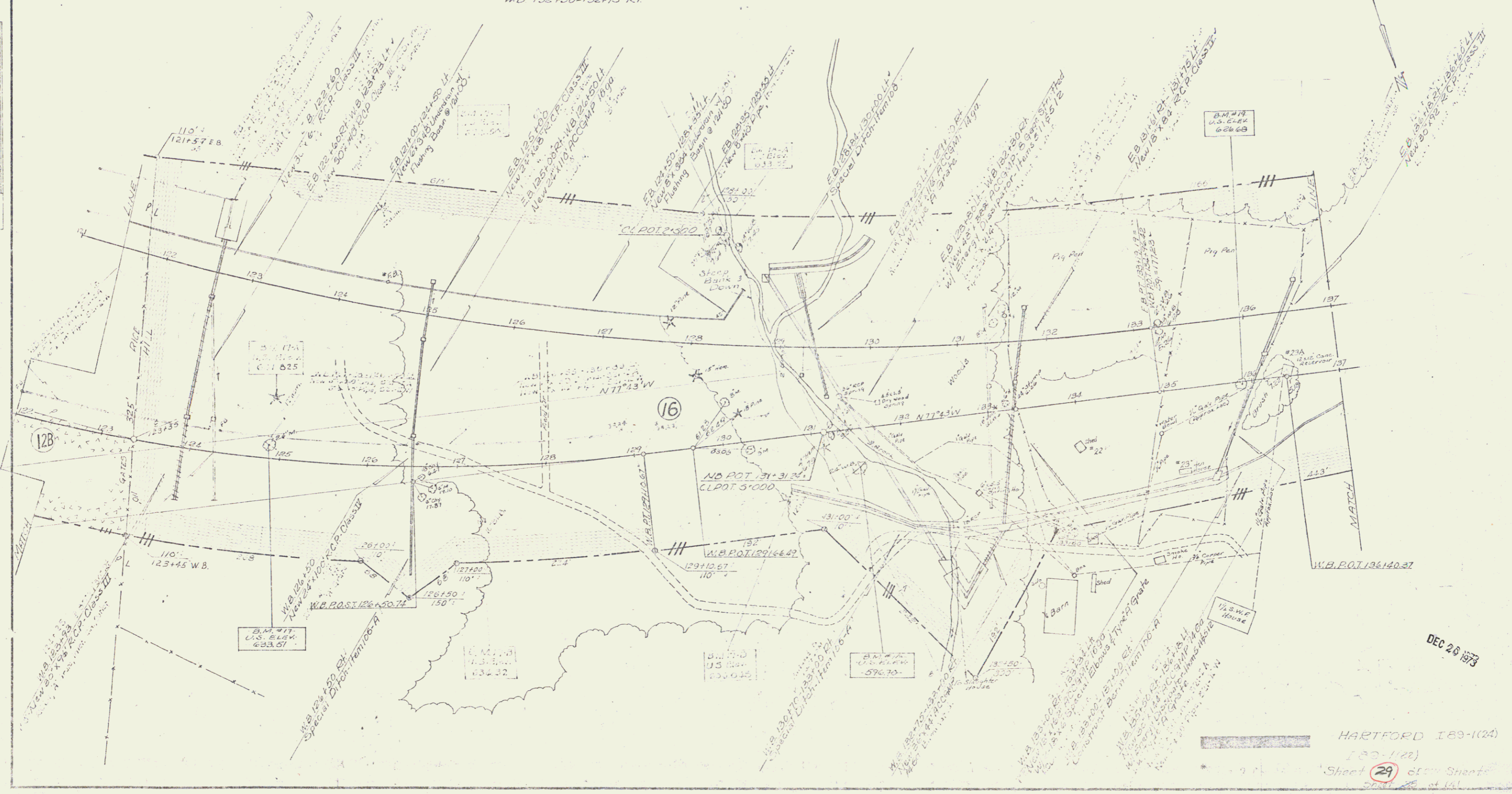
Concrete and Metal
 Light Type, Item 512
 EB 124+00-122+73 Lt
 EB 122+60 Rt-WB 123+93 Lt
 Rip-Rap, Heavy Type, Item 513
 EB 128+00 Lt
 EB 123+54-130+00 Lt
 EB 127+25 Lt
 Steel Pipe, Heavy, Item 514
 WB 130+70-135+60 Rt
 WB 132+37-132+50 Rt
 WB 133+50-132+75 Rt

Rip-Rap (Light type)
 Item 513 B
 EB 122+48-122+73 Lt
 EB 122+60 Rt-WB 123+93 Lt
 EB 128+00 Lt
 EB 123+54-130+00 Lt
 EB 127+25 Lt
 WB 130+70-135+60 Rt
 WB 132+37-132+50 Rt
 WB 133+50-132+75 Rt

Property Line Fence With
 Steel Posts, Mod. Item 503-II
 WB 122+00-137+00 Rt
 EB 124+00-137+00 Lt
 Property Line Fence With Below to be installed
 Prior to Other Work in the Area
 WB 123+93-137+00 Rt
 EB 124+00-137+00 Lt

Julie Matting Item 623
 EB 121+50-122+48 Lt
 EB 128+00-129+50 Rt
 WB 125+60-137+00 Rt
 * Mod 136+00-137+00

* Three Cable Guard Rail With Steel Posts
 Item 542
 EB 128+50-129+62 Lt
 WB 131+00-136+00 Rt
 EB 122+00-122+10 Lt



DEC 26 1973

HARTFORD 180-1(24)
 180-1(22)
 Sheet 29 of 29
 5/27/73 at 161

Drilling and Pre-splitting of Solid Rock
Item 125
WB 136+00 LT - 139+75 LT
EB 133+25 RT - 139+00 RT

Rip-Rap (light type)
Item 513B-1
E.B. 151+40 LT

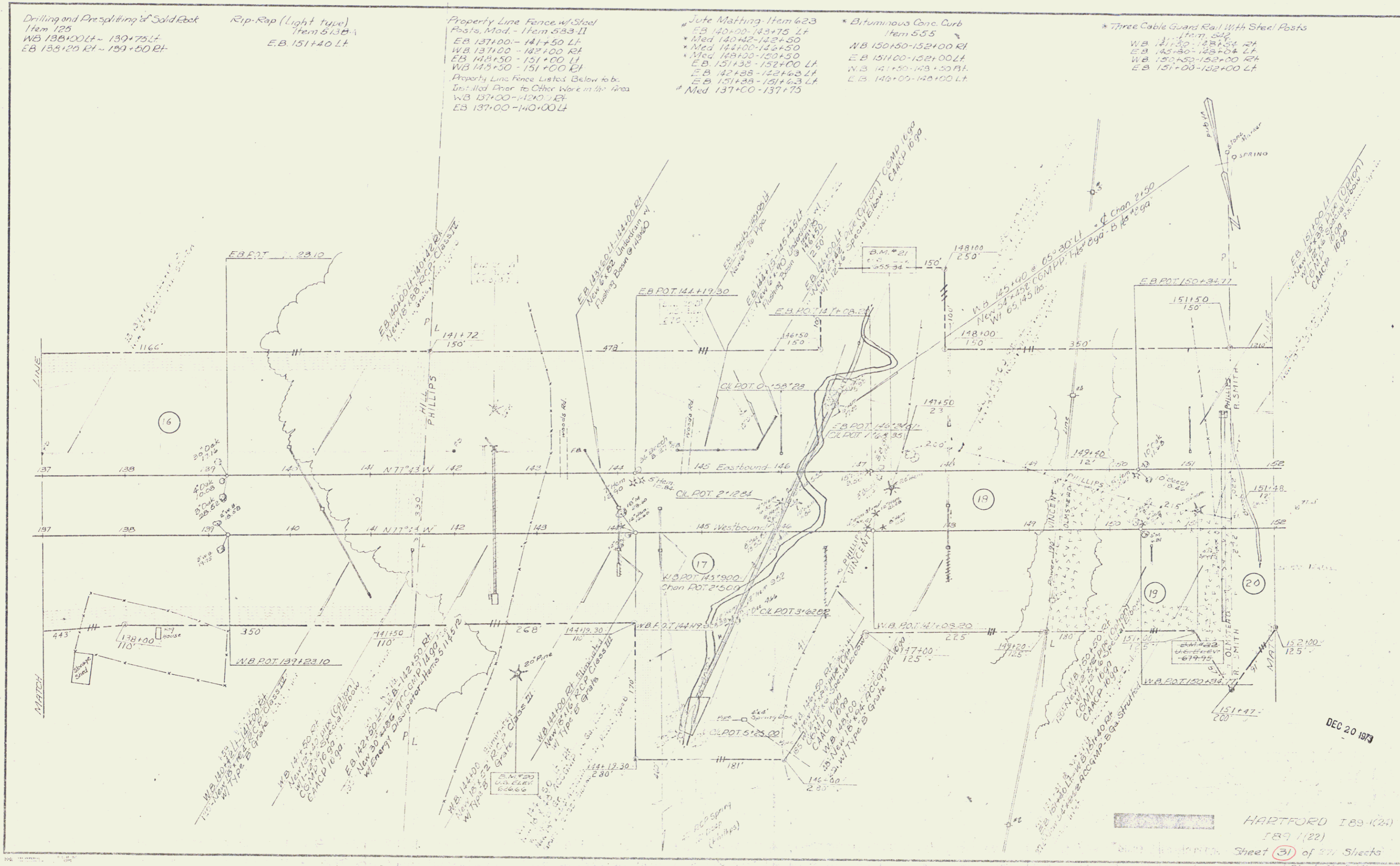
Property Line Fence w/ Steel Posts, Mod. - Item 583-II
EB 137+00 - 141+50 LT
WB 137+00 - 142+00 RT
EB 142+50 - 151+00 LT
WB 142+50 - 151+00 RT
Property Line Fence Listed Below to be Installed Prior to Other Work in the Area
WB 137+00 - 140+00 RT
EB 137+00 - 140+00 LT

Jute Matting - Item 623
EB 140+00 - 143+75 LT
Med 140+42 - 142+50
Med 142+00 - 142+50
Med 144+30 - 152+50
EB 151+38 - 152+00 LT
EB 142+88 - 142+43 LT
EB 151+88 - 151+43 LT
Med 137+00 - 137+75

Bituminous Conc. Curb
Item 5-5-5
WB 150+50 - 152+00 RT
EB 151+00 - 152+00 LT
WB 141+50 - 143+50 RT
EB 142+00 - 143+00 LT

Three Cable Guard Rail With Steel Posts
Item 5-5-5
WB 131+50 - 132+54 RT
EB 145+30 - 145+04 LT
WB 130+50 - 132+00 RT
EB 131+00 - 132+00 LT

PLAN	DATE	BY
Drilling and Pre-splitting of Solid Rock	12/20/73	J.P.
Property Line Fence		
Rip-Rap		
Jute Matting		
Bituminous Conc. Curb		
Three Cable Guard Rail		



HARTFORD 189 (24)
189 (22)
Sheet (3) of 37 Sheets
Sheet 40 of 141

PLAN
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: 12/20/73

1. Minimum Clearance of 10 feet
 2. 3.5' x 15.5' - 17.8' x 5'

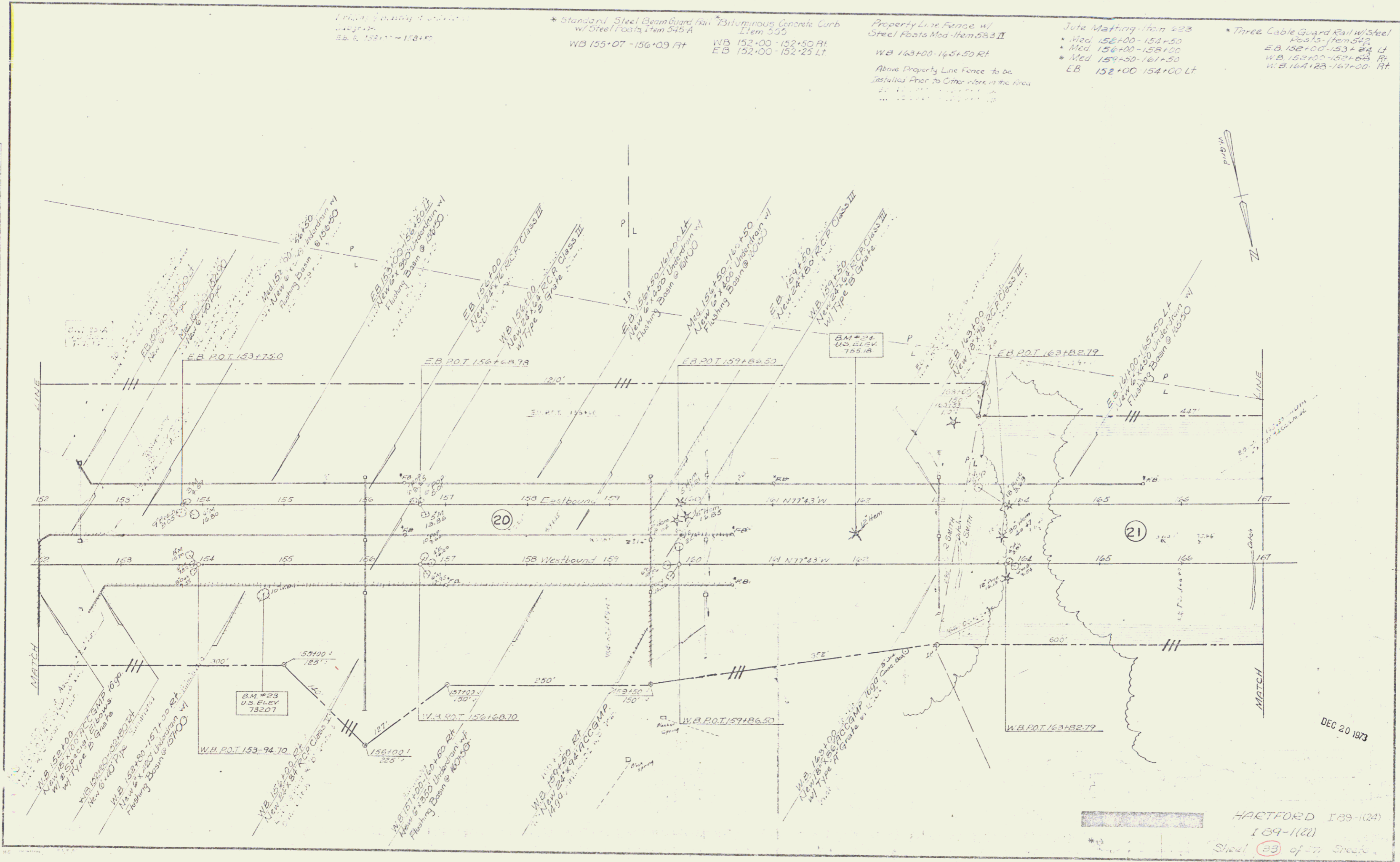
* Standard Steel Beam Guard Rail
 w/ Steel Posts, Item 345-A
 WB 135+07 - 156+09 Rt
 WB 152+00 - 152+50 Rt
 EB 152+00 - 152+25 Lt

Property Line Fence w/
 Steel Posts Mod. Item 383 II
 WB 143+00 - 145+50 Rt

Above Property Line Fence to be
 Installed Prior to Other Work in this Area

Jute Matting - Item 423
 • Med 158+00 - 158+50
 • Med 159+00 - 159+50
 • Med 159+50 - 161+50
 EB 152+00 - 154+00 Lt

* Three Cable Guard Rail w/ Steel
 Posts - Item 517
 EB 152+00 - 153+24 Lt
 WB 152+00 - 153+68 Rt
 WB 164+23 - 167+00 Rt



HARTFORD I 89-1(24)
 I 89-1(21)
 Sheet 23 of 27 Sheets

Standard Steel Beam Guard Rail
Item 345A
EB 176+91 - 177+23 LT

Rip-Rap (Light type)
Item 513-A
EB 169+00 - 170+45 LT
EB 170+45 LT
EB 173+50 LT

Property Line Fence w/
Steel Posts - Item 533 II
EB 174+00 - 182+00 LT
WB 174+50 - 181+00 RT
WB 167+00 - 169+93 LT
Property Line Fence Listed Below
to be Installed Prior to Other Work
in the Area
WB 167+00 - 169+93 LT
WB 174+50 - 181+22 RT

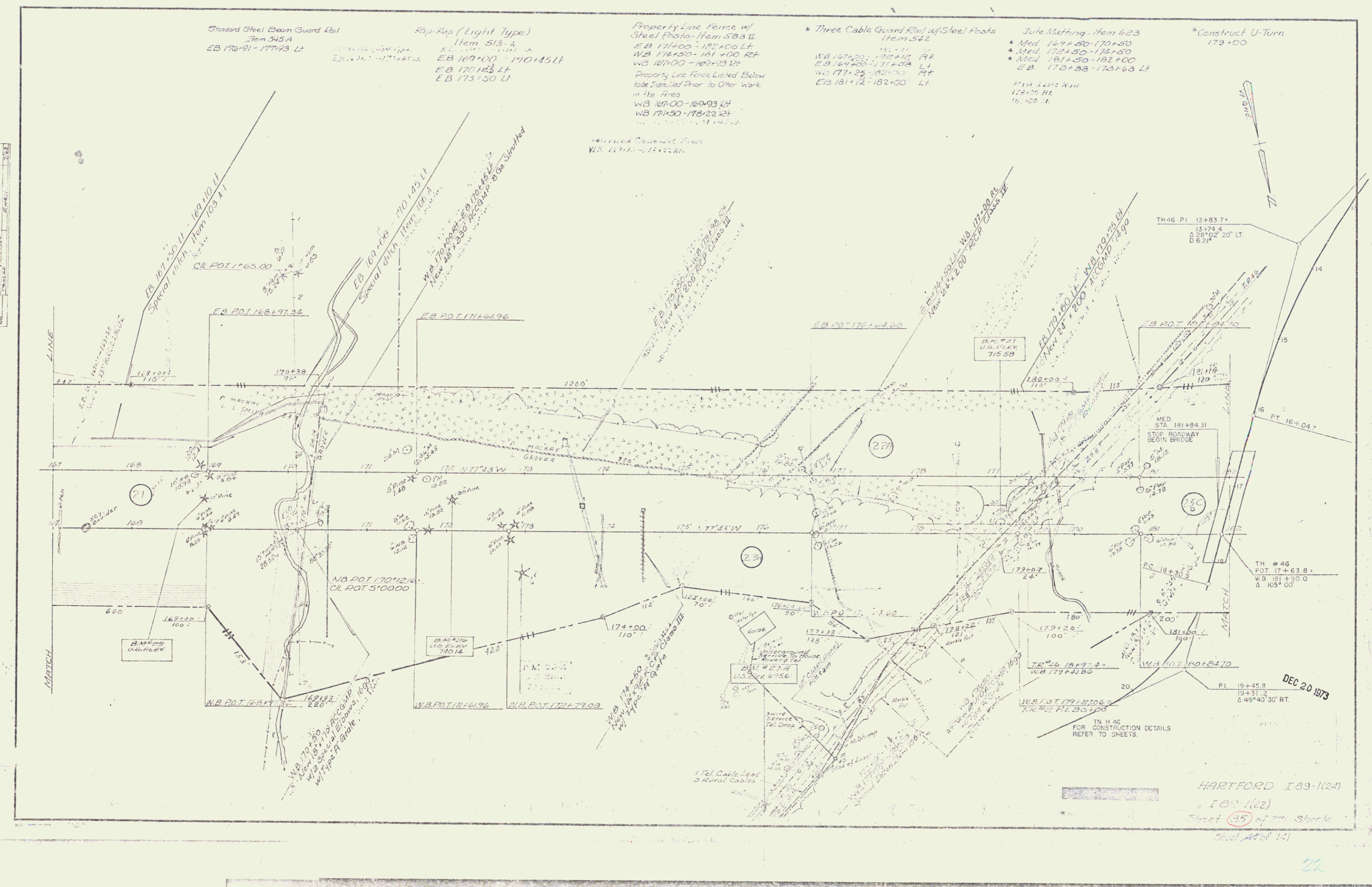
* Three Cable Guard Rail w/ Steel Posts
Item 542
WB 167+00 - 172+45 RT
EB 164+00 - 171+08 LT
WB 171+25 - 182+00 RT
EB 181+12 - 182+00 LT

Julia Matting - Item 623
* Med. 167+50 - 170+50
* Med. 173+50 - 174+50
* Med. 181+50 - 182+00
EB 173+38 - 173+63 LT
P.M. 181+20 R/W
173+50 RT
181+00 LT

* Construct U-Turn
179+00

* Distance Contract, Fence
WB 171+25 - 171+22 RT

DATE: 12/20/73
BY: J. H. SHANKS
CHECKED: J. H. SHANKS
SCALE: AS SHOWN



TH #6 P.I. 13+83.7+
13+74.4
Δ 28° 02' 20" LT.
D 6.21'

MED. STA. 181+84.31
STOP ROADWAY
BEGIN BRIDGE

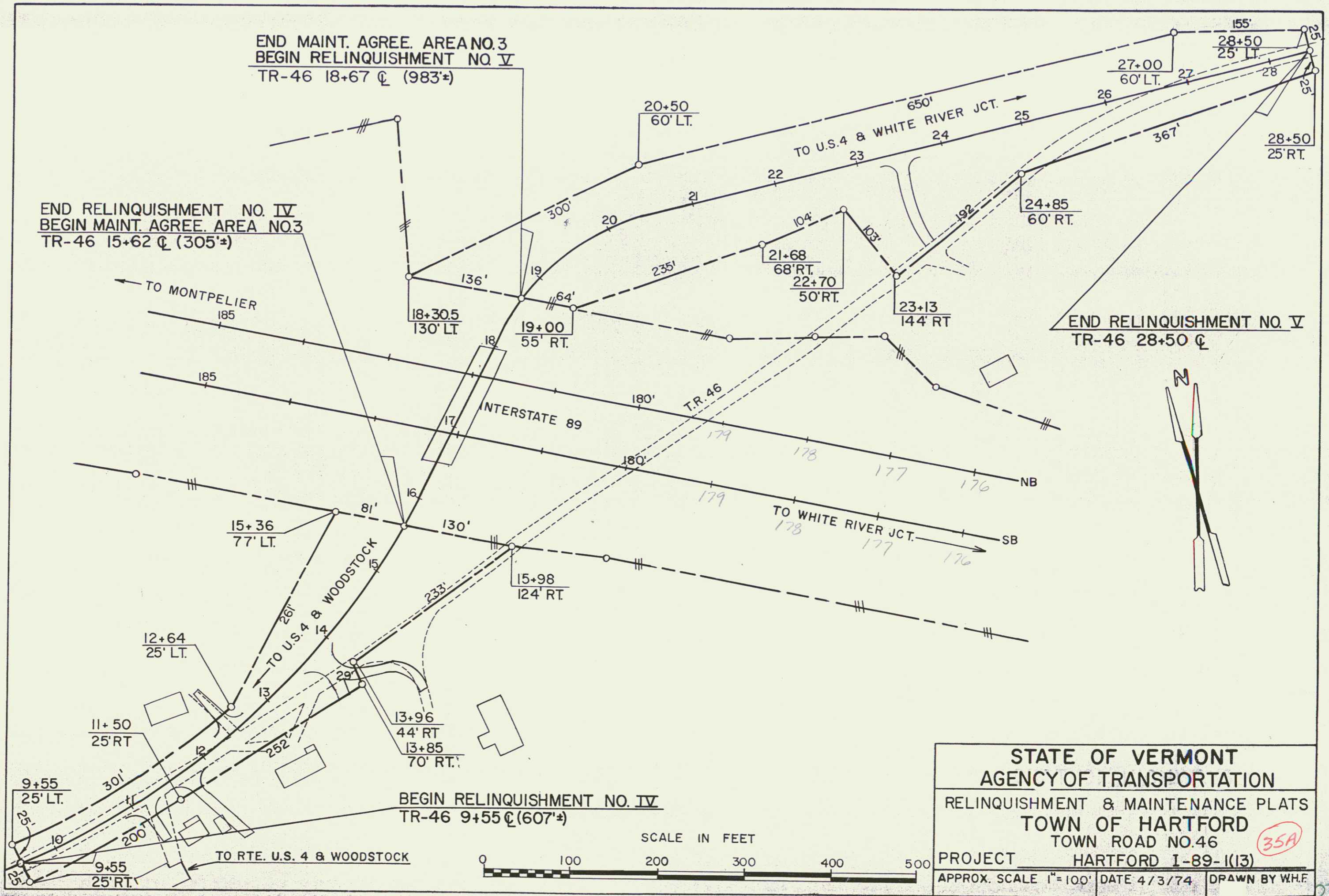
TH #46
P.O.I. 174+63.8+
WB 181+90.0
Δ 105° 00'

DEC 20 1973
PI 19+45.9
19+31.2
Δ 49° 40' 30" RT

TN H-46
FOR CONSTRUCTION DETAILS
REFER TO SHEETS.

HARTFORD I-89-1(24)
I-89-1(22)
Sheet (35) of 771 Sheets
Sheet A of 121

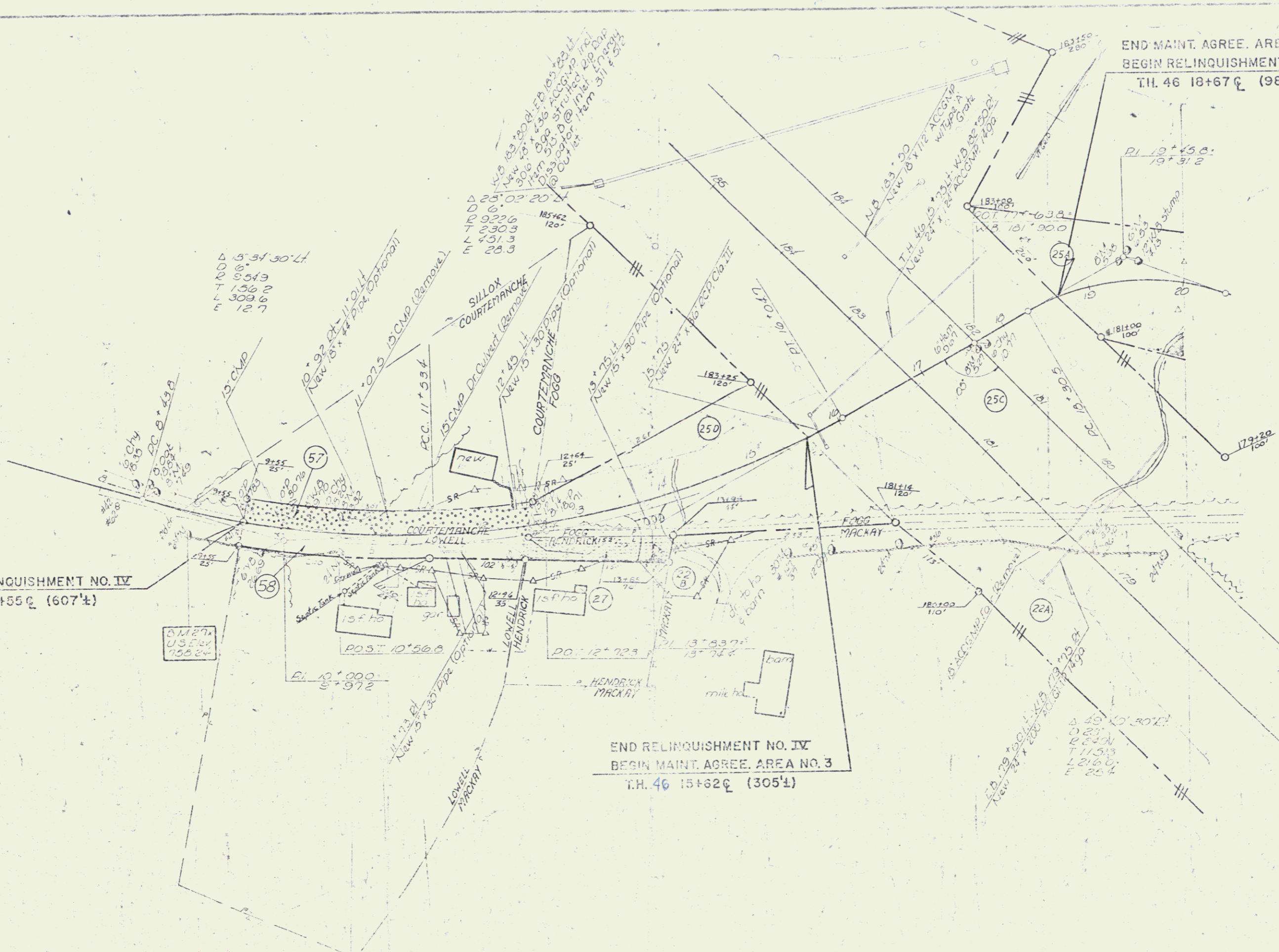
22



BEGIN RELINQUISHMENT NO. IV
T.H. 46 9+55.6 (607'±)

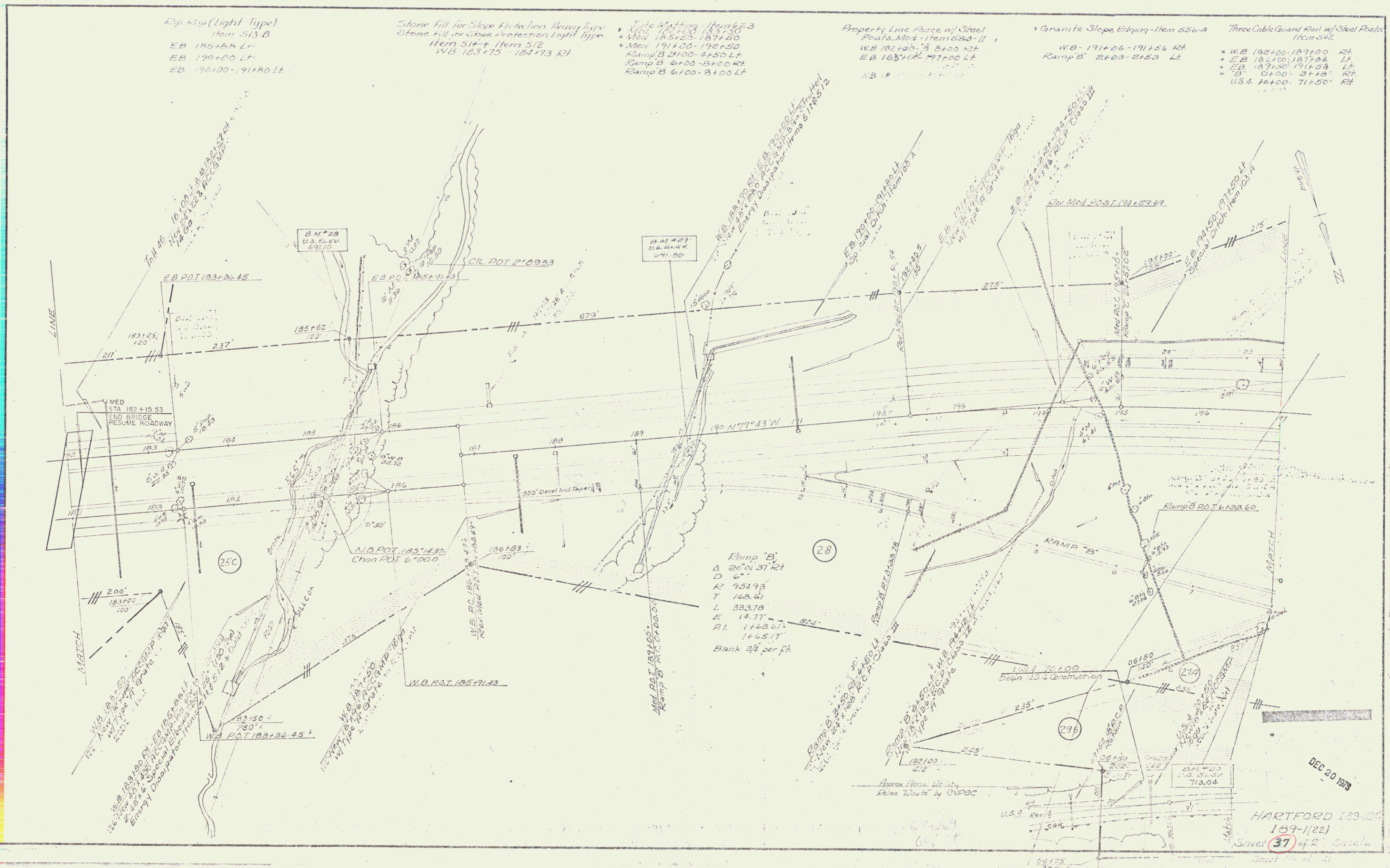
END RELINQUISHMENT NO. IV
BEGIN MAINT. AGREE. AREA NO. 3
T.H. 46 15+62.6 (305'±)

END MAINT. AGREE. AREA NO. 3
BEGIN RELINQUISHMENT NO. V
T.H. 46 18+67.6 (983'±)



35B

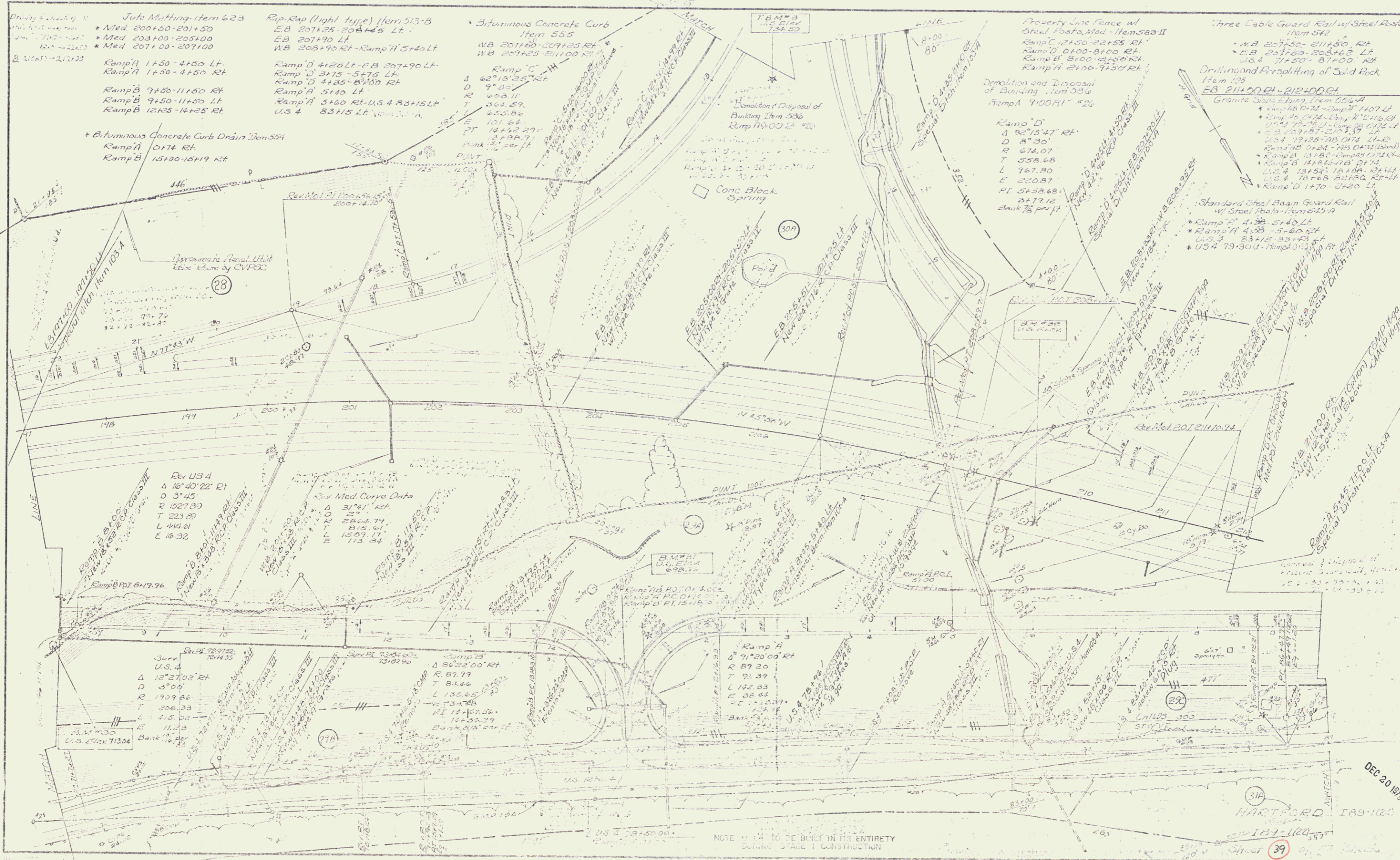
PLAN
 DATE
 BY
 CHECKED
 APPROVED
 TITLE



DEC 20 1938

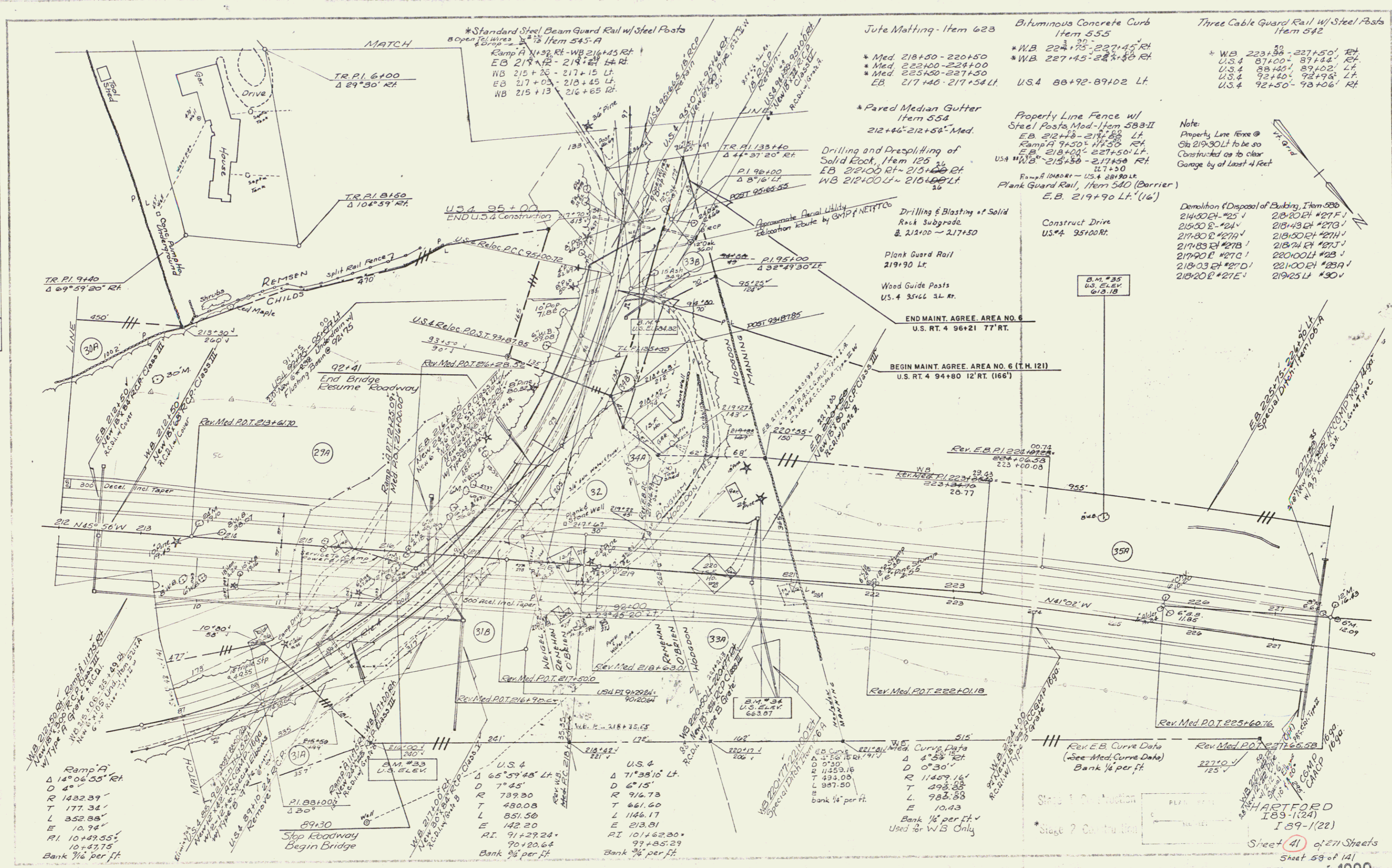
HARTFORD 189-120
 189-1(22)
 Sheet 37 of 2 Sheets

PLAN
 SURVEYED BY
 DATE
 SCALE
 SHEET NO. 29 OF 141



NOTE: U.S. 4 TO BE BUILT IN ITS ENTIRETY DURING STAGE I CONSTRUCTION

PLAN
 NOVEMBER 1980
 ALL DIMENSIONS IN FEET
 UNLESS OTHERWISE NOTED



Ramp A
 $\Delta 140^{\circ}06'55''$ Rt
 $D 40'$
 $R 1432.39'$
 $T 177.34'$
 $L 352.88'$
 $E 10.94'$
 $RI 10+49.55'$
 $10+47.75'$
 Bank $1/4$ per ft

U.S. 4	$\Delta 65^{\circ}59'48''$ Lt	U.S. 4	$\Delta 71^{\circ}38'16''$ Lt
$D 77.45'$		$D 67.15'$	
$R 789.30'$		$R 916.73'$	
$T 480.08'$		$T 461.60'$	
$L 851.56'$		$L 1146.17'$	
$E 213.81'$		$E 10.43'$	
$RI 91+29.24'$		$RI 101+42.30'$	
$90+20.64'$		$99+85.29'$	
Bank $3/4$ per ft		Bank $3/4$ per ft	

Rev. EB Curve Data
 (See Med. Curve Data)
 Bank $1/4$ per ft

Rev. Med. P.O.T. 227+66.58
 $227+0.0$
 $125'$

HARTFORD
 189-1(22)
 Sheet 41 of 27 Sheets
 Sheet 59 of 141
 FEB 25 1980 30

Jute Matting - Item 623
 Bituminous Concrete Curb Item 555
 Three Cable Guard Rail w/ Steel Posts Item 542

* Med. 218+50 - 220+50
 * Med. 222+00 - 224+00
 * Med. 225+50 - 227+50
 EB 217+40 - 217+54 Lt

* WB 227+45 - 227+45 Rt
 * WB 227+45 - 227+45 Rt
 U.S. 4 88+92 - 89+02 Lt

* WB 223+30 - 227+50' Rt
 U.S. 4 87+00 - 87+42' Rt
 U.S. 4 88+40 - 89+02' Lt
 U.S. 4 92+40 - 92+98' Lt
 U.S. 4 92+50 - 93+06' Rt

* Paved Median Gutter Item 554
 212+46 - 212+54' Med.

Property Line Fence w/ Steel Posts, Mod. Item 583-II
 EB 212+18 - 217+50 Lt
 Ramp A 9+50 - 14+50 Rt
 EB 218+00 - 227+50 Lt
 U.S. 4 WB 215+50 - 217+50 Lt
 U.S. 4 217+50
 Ramp A (Mod.) - U.S. 4 219+02 Lt
 Plank Guard Rail, Item 540 (Barrier)
 E.B. 219+90 Lt (16')

Note:
 Property Line Fence @ Sta 219+30 Lt to be so Constructed as to clear Garage by at Least 4 Feet

Drilling and Presplitting of Solid Rock, Item 125
 EB 212+00 Rt - 215+00 Lt
 WB 212+00 Lt - 215+00 Lt

Approximate Aerial Utility Relocation Route by GMP/NETCO

Drilling & Blasting of Solid Rock Subgrade & 212+00 - 217+50

Plank Guard Rail 219+90 Lt

Wood Guide Posts U.S. 4 35+66 3/4 Rt.

Construct Drive U.S. 4 95+00 Rt

END MAINT. AGREE. AREA NO. 6
 U.S. RT. 4 96+21 77' Rt.

BEGIN MAINT. AGREE. AREA NO. 6 (T.H. 121)
 U.S. RT. 4 94+80 12' Rt. (166')

Rev. E.B. P.O.T. 222+01.8
 $222+00.00$
 $223+00.00$
 20.77

Rev. Med. P.O.T. 225+60.76

Rev. E.B. Curve Data
 (See Med. Curve Data)
 Bank $1/4$ per ft

Rev. Med. P.O.T. 227+66.58
 $227+0.0$
 $125'$

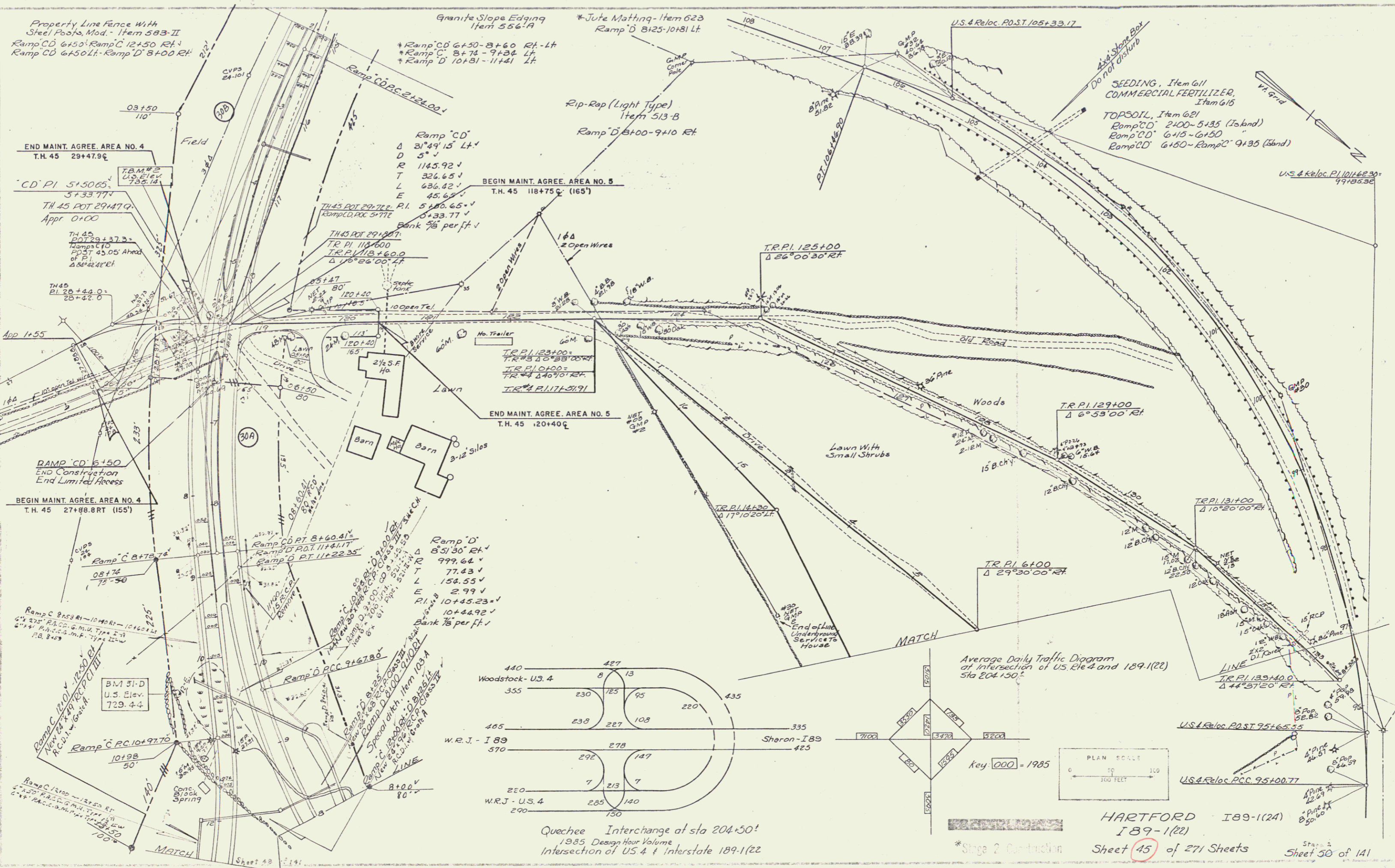
Rev. E.B. Curve Data
 (See Med. Curve Data)
 Bank $1/4$ per ft

Rev. Med. P.O.T. 227+66.58
 $227+0.0$
 $125'$

Rev. E.B. Curve Data
 (See Med. Curve Data)
 Bank $1/4$ per ft

Rev. Med. P.O.T. 227+66.58
 $227+0.0$
 $125'$

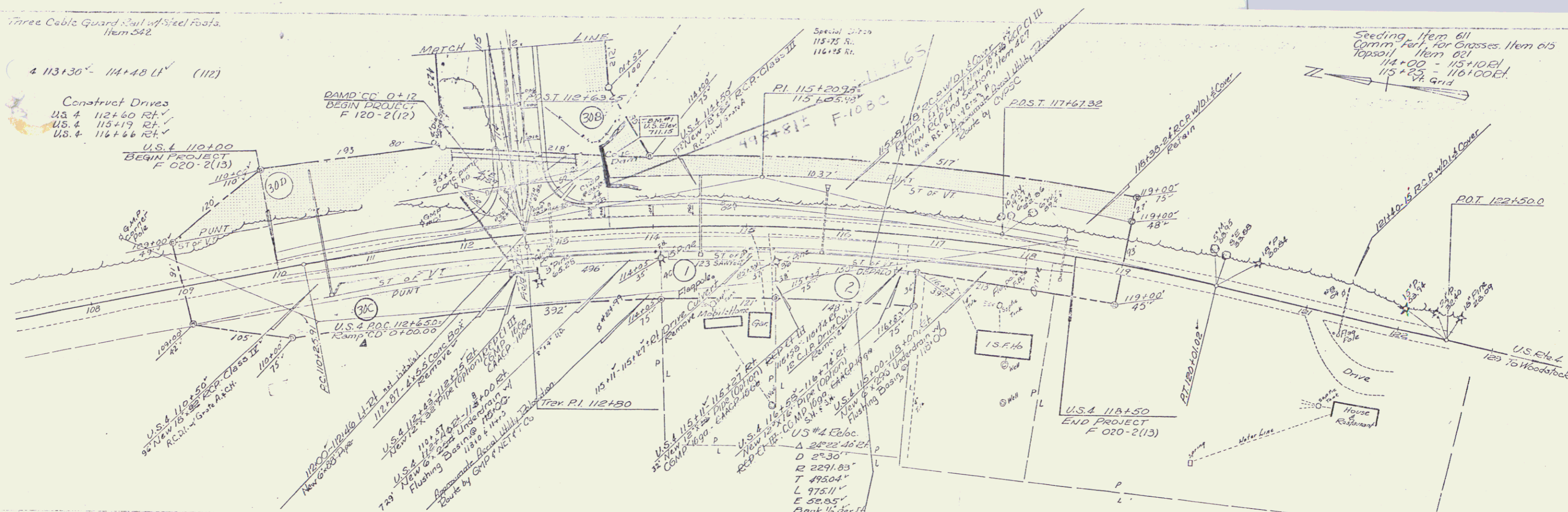
DATE	1/2/85
BY	W. J. ...
CHECKED	...
APPROVED	...
SCALE	AS SHOWN
PROJECT	...
SHEET	45



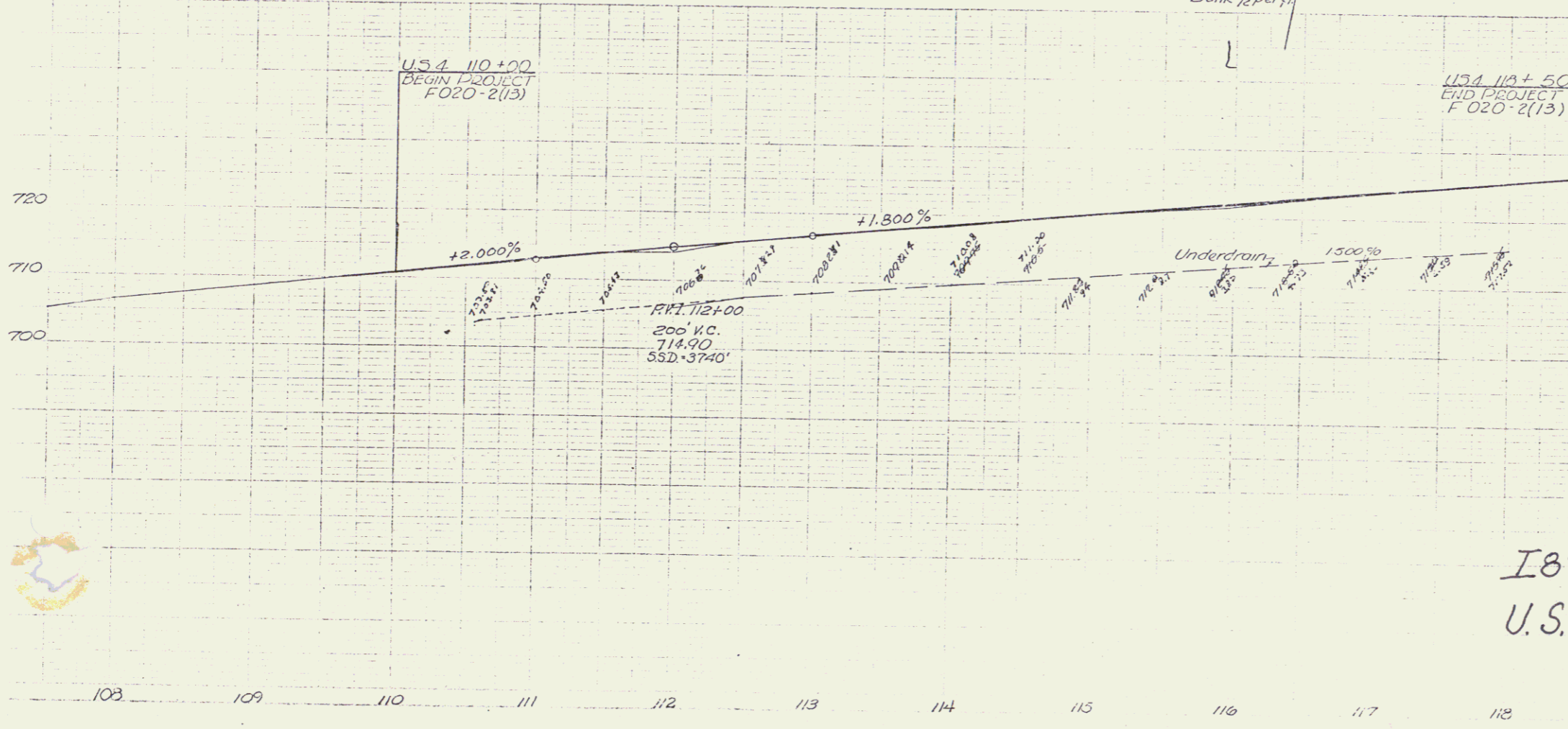
Three Cable Guard Rail w/ Steel Posts.
Item 542

4 113+30 - 114+48 (L) (112)

Construct Drives
US 4 112+60 RT ✓
US 4 115+19 RT ✓
US 4 116+66 RT ✓



Seeding Item 611
Comm. Fert. for Grasses, Item 615
Topsoil Item 621
114+00 - 115+100ft.
115+25' Sta. Grid



Stone Fill for Slope Protection
Sta. 115+75 RT.
Sta. 115+85 RT.

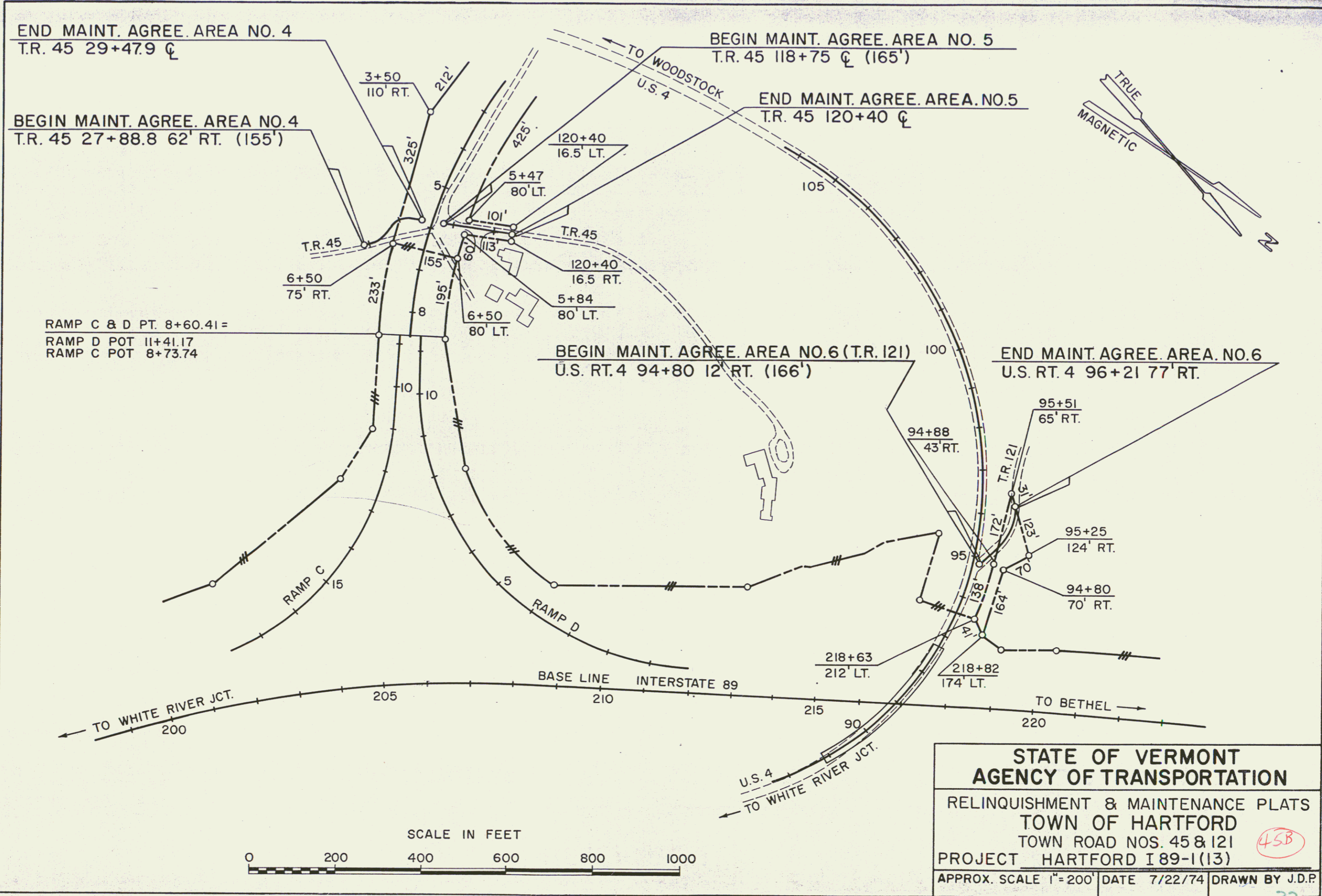
TO BE BUILT IN ITS ENTIRETY DURING
STAGE 1 CONSTRUCTION

I 89
U.S. Rte 4

Stage 1 Construction

Stage 2 Construction

HARTFORD
F020-2(13)
Sheet 45A of 40 Sheets



END MAINT. AGREE. AREA NO. 4
T.R. 45 29+47.9 CL

BEGIN MAINT. AGREE. AREA NO. 4
T.R. 45 27+88.8 62' RT. (155')

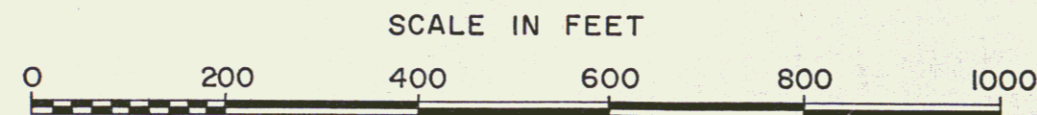
BEGIN MAINT. AGREE. AREA NO. 5
T.R. 45 118+75 CL (165')

END MAINT. AGREE. AREA NO. 5
T.R. 45 120+40 CL

RAMP C & D PT. 8+60.41=
RAMP D POT 11+41.17
RAMP C POT 8+73.74

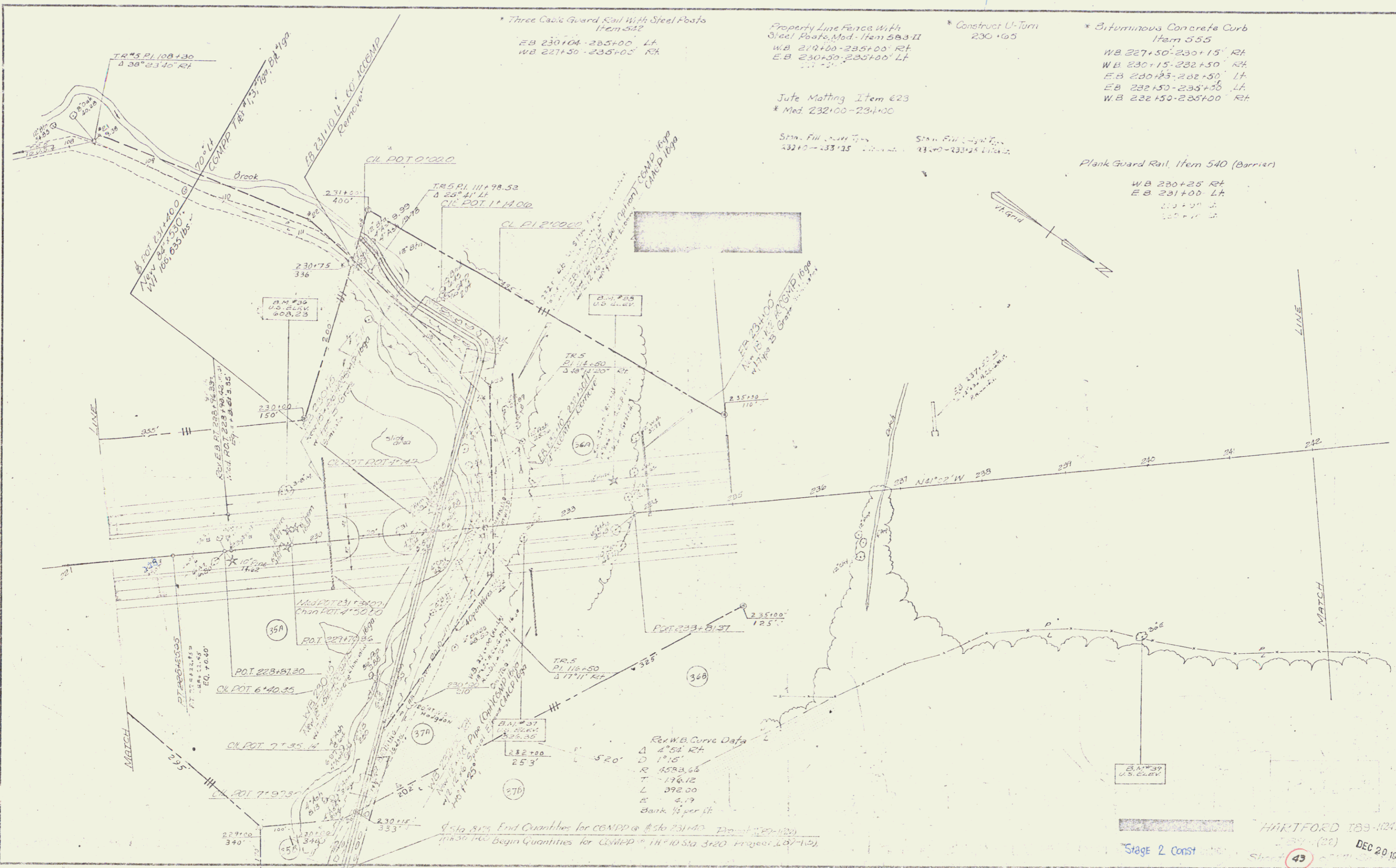
BEGIN MAINT. AGREE. AREA NO. 6 (T.R. 121)
U.S. RT. 4 94+80 12' RT. (166')

END MAINT. AGREE. AREA NO. 6
U.S. RT. 4 96+21 77' RT.



STATE OF VERMONT
AGENCY OF TRANSPORTATION
RELINQUISHMENT & MAINTENANCE PLATS
TOWN OF HARTFORD
TOWN ROAD NOS. 45 & 121
PROJECT HARTFORD I 89-1(13) *45B*
APPROX. SCALE 1"=200' DATE 7/22/74 DRAWN BY J.D.P.

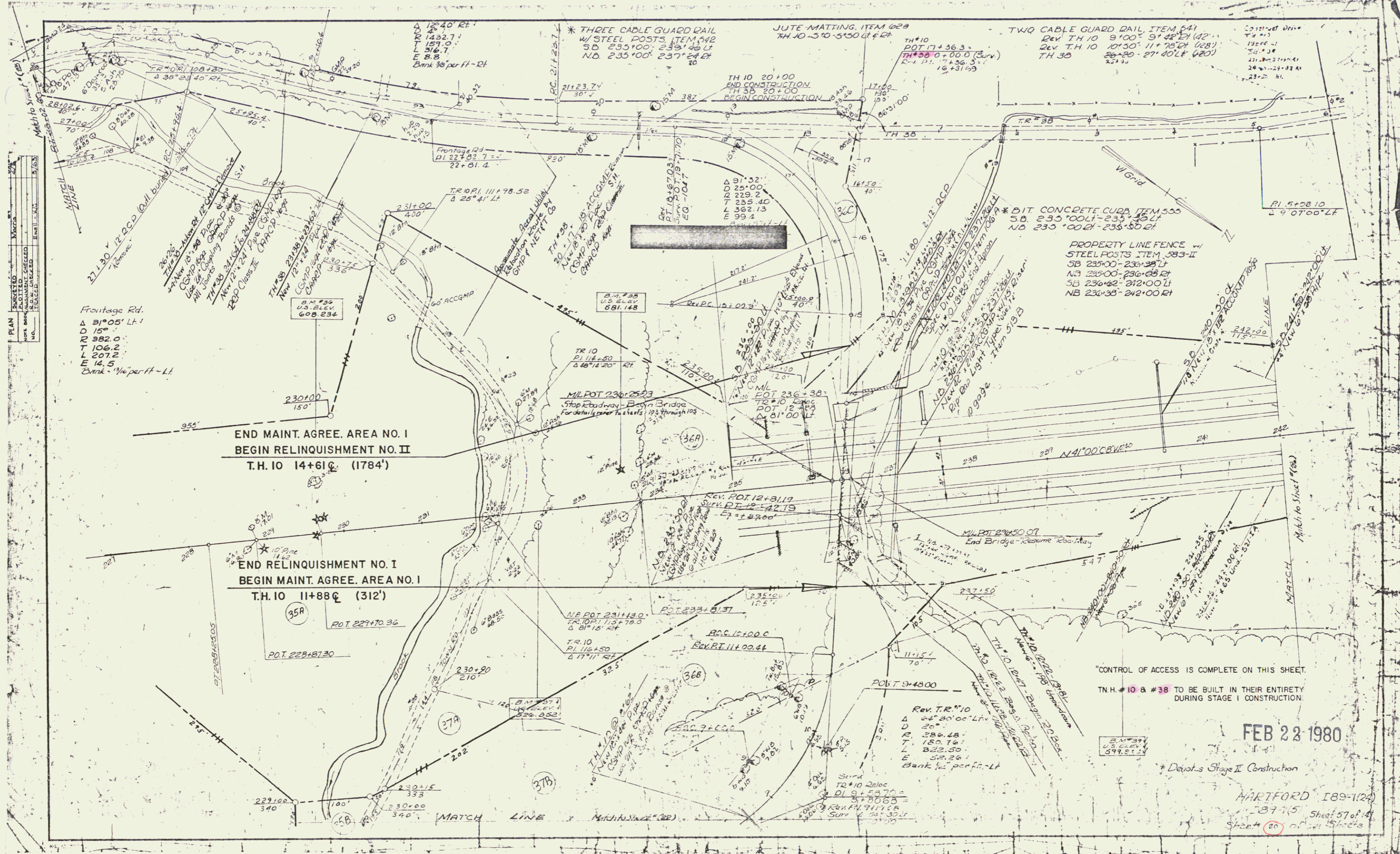
PLAN	100%
DATE	11/15/73
BY	J. J. ...
CHECKED	...
APPROVED	...
PROJECT	...
SHEET	...



R/W Curve Data
 Δ 4°54' 24"
 D 175'
 R 1028.65
 T 176.12
 L 392.00
 E 4.19
 Bank 1/4 per ft

Sta 231+00 End Quantities for CONP @ Sta 231+00
 Sta 230+00 Begin Quantities for CONP @ Sta 230+00

HARTFORD (89-102)
 Stage 2 Const
 DEC 20 1973
 Sheet 43



PLAN
 SURVEYED
 CHECKED
 DATE
 NO.

Frontage Rd.
 Δ 51°05' LH
 D 15'
 R 982.0
 T 106.2
 L 207.2
 E 14.5
 Bank 1/4 per ft - LH

END MAINT. AGREE. AREA NO. I
 BEGIN RELINQUISHMENT NO. II
 T.H. 10 14+61.6 (1784')

END RELINQUISHMENT NO. I
 BEGIN MAINT. AGREE. AREA NO. I
 T.H. 10 11+88.6 (312')

"CONTROL OF ACCESS IS COMPLETE ON THIS SHEET."
 TN H. #10 & #38 TO BE BUILT IN THEIR ENTIRETY
 DURING STAGE I CONSTRUCTION.

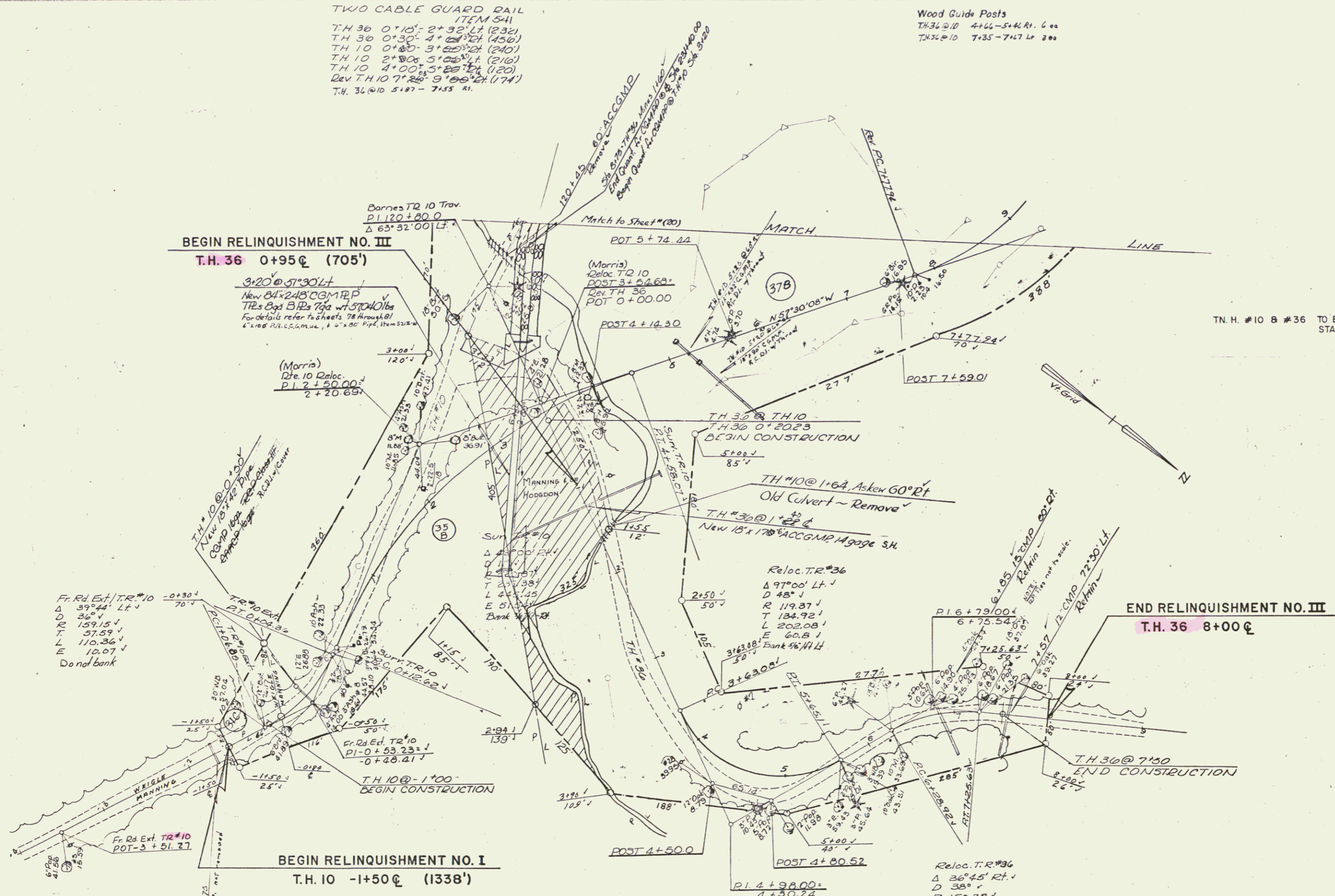
FEB 23 1980

HARTFORD 189-124
 37-15
 Sheet 57 of 141
 Sheet 20 of 24 Sheets

PLAN	DESIGNED	BY	DATE
PLOTTED	BY		
NOTED	BY		
REVISIONS	NO.	DATE	BY
1			
2			
3			
4			
5			

TWO CABLE GUARD RAIL
ITEM 541
T.H. 36 0+15' - 2+32' Lt. (232)
T.H. 36 0+30' - 4+00' Lt. (456)
T.H. 10 0+80' - 3+25' Lt. (240)
T.H. 10 2+80' - 5+00' Lt. (210)
T.H. 10 4+00' - 5+20' Lt. (120)
Dev. T.H. 10 7+25' - 9+00' Lt. (174)
T.H. 36 @ 10 5+87' - 7+55' Rt.

Wood Guide Posts
T.H. 36 @ 10 4+66' - 5+44' Rt. 6 ea
T.H. 36 @ 10 7+35' - 7+17' Lt. 3 ea



T.N. H. #10 & #36 TO BE BUILT IN THEIR ENTIRETY DURING STAGE I CONSTRUCTION.

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Stage I Construction

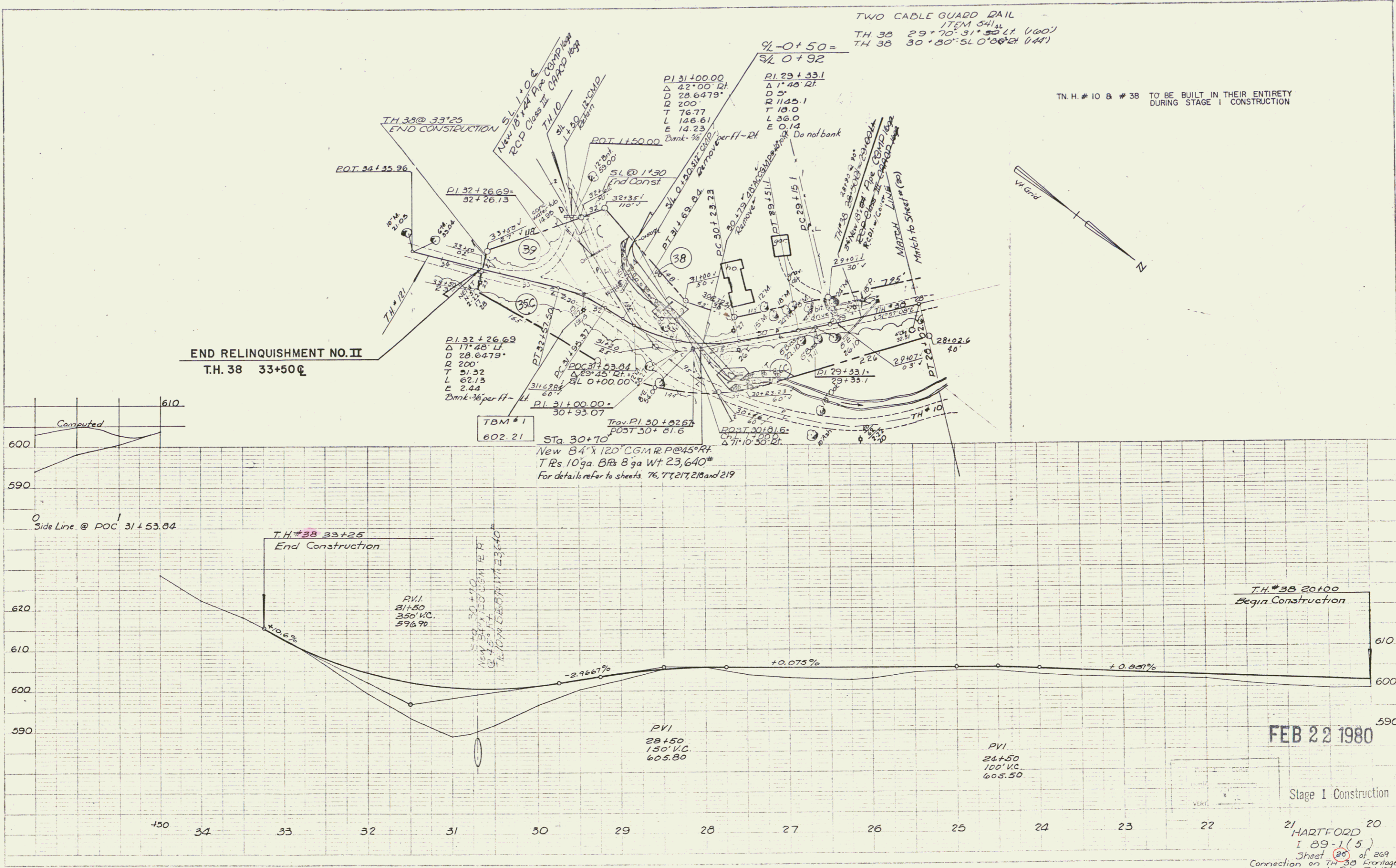
Rev. T.H. # 36

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DATE
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FEB 22 1980

Stage I Construction
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 I 89-1(5)
 Sheet 20 of 209
 Connection of TH-38 Heritage Rd.
 from old TH 10 to Route TH 10