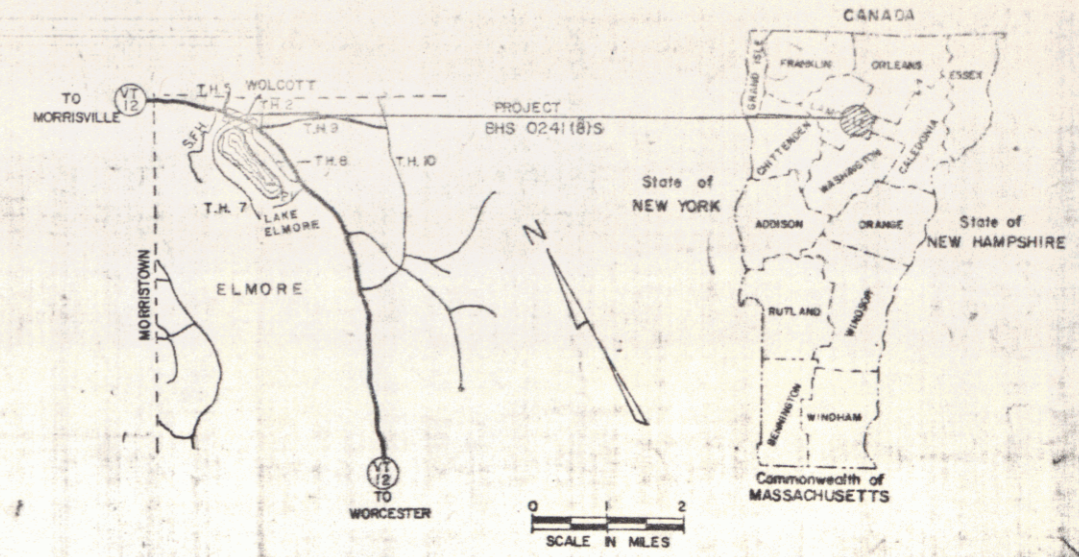


INDEX OF SHEETS

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT **TOWN OF ELMORE** COUNTY OF LAMOILLE **VERMONT ROUTE 12 (FAS)**



TRAFFIC DATA *

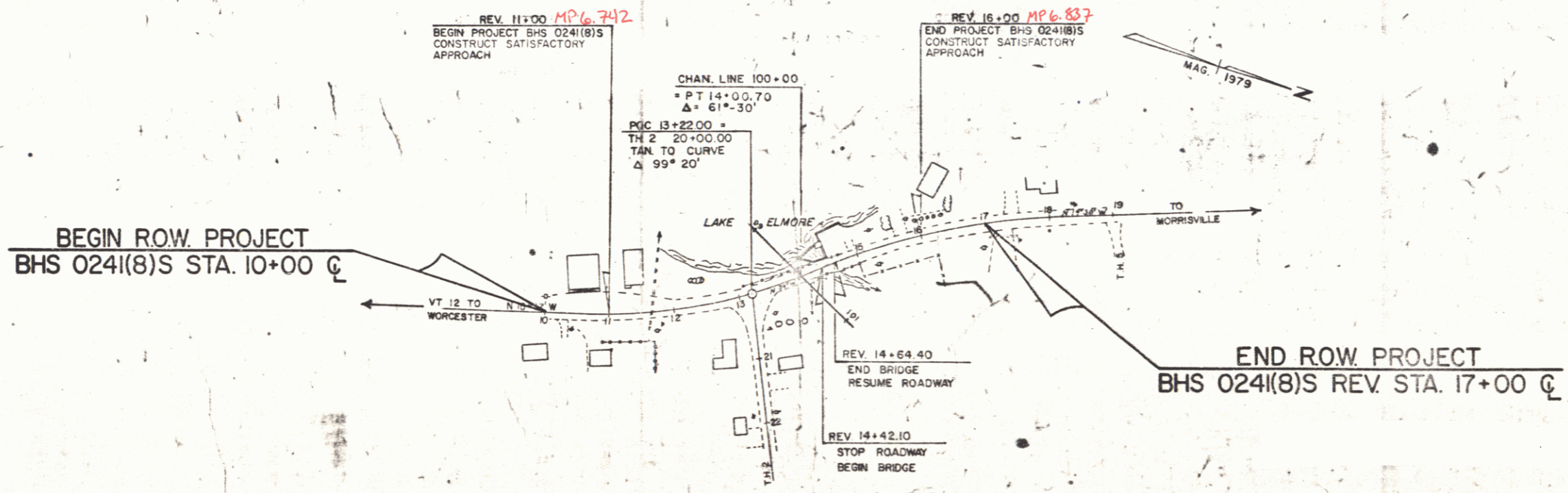
1981 AADT	1600
1981 DHV	240
D	55% NB
T	3%
V	40 MPH

R.O.W. PLANS

BEGINNING AT A POINT 1.200 MILES IN A SOUTHEASTERLY DIRECTION FROM THE MORRISTOWN-ELMORE TOWN LINE AND EXTENDING 0.095 MILES IN A NORTH-WESTERLY DIRECTION.

THIS PROJECT CONSISTS OF BRIDGE WIDENING, INCLUDING APPROACHES, ON EXISTING VT. 12.

LENGTH OF ROADWAY 477.7 FEET = 0.091 MILES
 LENGTH OF BRIDGE 22.3 FEET = 0.004 MILES
 LENGTH OF PROJECT 500.0 FEET = 0.095 MILES
 LENGTH OF ROW PROJ. 700.0 FEET = 0.133 MILES



- CONVENTIONAL SIGNS
- COUNTY LINE
 - TOWN LINE
 - LIMITS OF ACCESS
 - POINT OF ACCESS
 - FENCE LINE
 - STONE WALL
 - TRAVELED WAY
 - GUARD RAIL
 - RAILROAD
 - SURVEY LINE
 - CULVERT
 - POWER P.O.E
 - TELEPHONE POLE
 - TREES
 - CON. ROW OF ACCESS
 - PROPERTY LINE
 - ROW TAKING LINE
 - SLOPE RIGHTS
 - TOP OF CUT
 - TOE OF SLOPE

DATUM

VERTICAL	NGVD 1929
HORIZONTAL	N/A



RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction. Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction adopted March, 1976, 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.

Pin# 78E150
PROJECT PROCESSED UNDER
SECONDARY ROAD PLAN

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED: *S. J. O'Neil* DATE: 7-21-81
DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____ DATE: _____
DIVISION ADMINISTRATOR

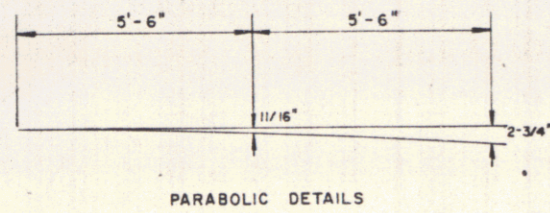
APPROVED: _____ DATE: 7-21-81
CHIEF PROPERTY ADMINISTRATION

ELMORE BHS 0241(8)S
SHEET 1 OF 6 SHEETS

TYPICAL SECTIONS

2-1/2" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25 ($\pm 1/4"$)
 3" PLANT MIXED BASE COURSE, ITEM 303.25 ($\pm 1/2"$)
 24" SUB-BASE OF GRAVEL, ITEM 301.15 ($\pm 1"$)
 SHOULDERS: 1-1/4" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25 ($\pm 1/4"$)
 0"-24" SAND BORROW, ITEM 203.31 ($\pm 1"$)
 0"-12" GRANULAR BORROW, ITEM 203.32 ($\pm 1"$)

TO BE PLACED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER
 TOLERANCE IN PARENTHESES APPLIES TO THICKNESSES



GENERAL NOTES

TO BE APPLIED AS DIRECTED BY THE ENGINEER

SEEDING FORMULA, ITEM 651.10 URBAN AREAS

% WT	LBS/A	NAME	PUR%	GERM%
37.50	30	CREEPING RED FESCUE	98	85
31.25	25	KENTUCKY BLUEGRASS	85	75
31.25	25	PERENNIAL RYE GRASS	95	90
100.00	80			

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

MARKER POSTS, (WOOD OR STEEL AS SPECIFIED) TO BE PLACED AS DIRECTED BY THE ENGINEER

FERTILIZER, ITEM 651.15 FORMULA 10-20-10 TO BE USED WITH SEED, ITEM 651.10 APPLIED AT THE RATE OF 500 LBS/ACRE

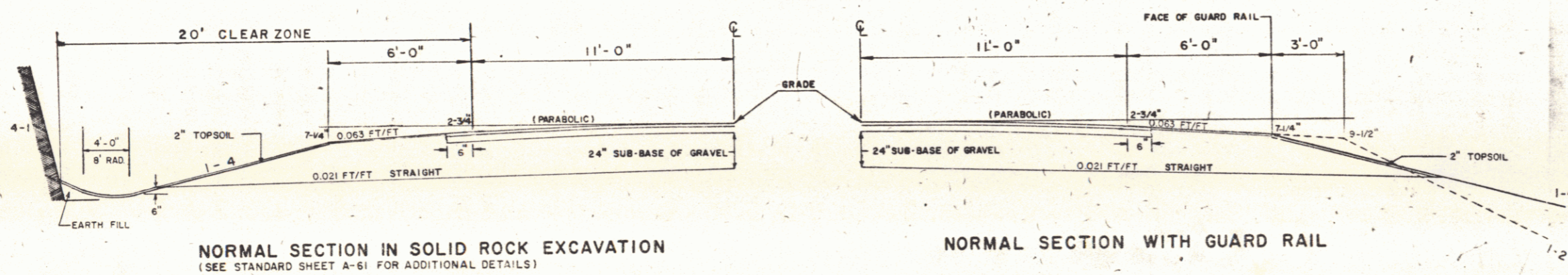
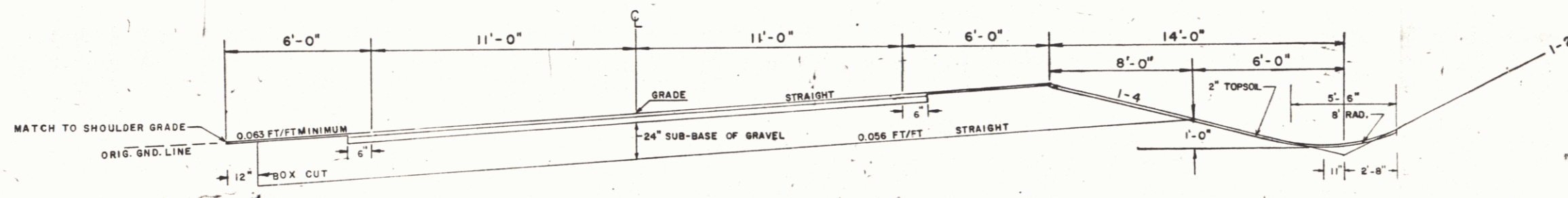
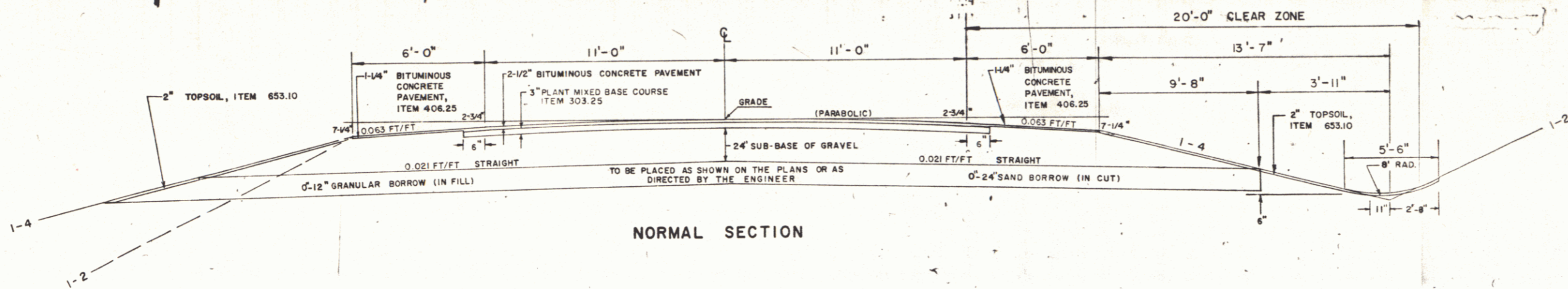
AGRICULTURAL LIMESTONE, ITEM 651.20 TO BE APPLIED AT RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER

HAY MULCH, ITEM 651.25 TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE

TOPSOIL, ITEM 653.10 TO BE USED WITH SEED, ITEM 651.10 IN RESIDENTIAL AREAS, AS DIRECTED BY THE ENGINEER

SEE STANDARD SHEET B-5 FOR TYPICAL SLOPE ROUNDING

SEE STANDARD SHEET D-2 FOR SAND BORROW IN CONJUNCTION WITH UNDERDRAIN.



TOWN OF ELMORE

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

DRAWN BY: *[Signature]* TRACED BY: *[Signature]*
 PROJ. BH S0241(8)S SHEET 2 OF 6

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
1	ELMORE TOWN SCHOOL DISTRICT	5	REV. 11+60 RT. 10+65 RT.	REV. 11+69 RT. REV. 11+68 RT.			CUL. (P) SLOPE (T) (0.04 A±)	WDOE	1-21-82	ELMORE	27	327-9	(1680 S.F.±)
2A	TOWN OF ELMORE	5	REV. 11+60 LT.	REV. 11+78 LT.			CONST. EASE. (T) (0.02 A±)	AGREE.					(800 S.F.±)
2B		5	REV. 12+90 RT.	REV. 13+38 RT.			CONST. APPROACH (T)						T.H. 2
3	LEAHY, JAMES & LETITIA	5	REV. 11+60 RT. REV. 11+68 RT. REV. 12+35 RT.	REV. 12+93 RT. REV. 11+78 RT.	0.04 A±	0.31 A±	SLOPE (T) (15 S.F.±) DRIVE (T)	WD		ELMORE	27	300-1	(1530 S.F.±) 18' GRAVEL N.P. 6.735 DRIVE PERMIT DATE:
4	MERCIA, MORRIS E. & ELEANOR M.	5	REV. 11+73 LT.	REV. 11+90 LT.			CONST. EASE. (T) (0.02 A±)	AGREE.					(900 S.F.±)
5	SMITH, PHILIP H.	5	REV. 13+41 RT. REV. 13+70 RT.	REV. 14+12 RT.	0.03 A±	0.47 A±	CONST. EASE. (T)	WD		ELMORE	27	308-0	(1315 S.F.±) SIGNAL POLE
6	KNEELAND, HAROLD D. & REAVA L.	5	REV. 14+05 RT.	REV. 16+19 RT.	0.10 A±	3.90 A±		WD		ELMORE	27	285	
7	VILLAGE OF MORRISVILLE (WATER & LIGHT DEPARTMENT)	5	REV. 15+70 LT.				DRIVE (T)	RELEASE					12' GRAVEL N.P. 6.821 DRIVE RELEASE DATE: DRIVE PERMIT DATE:

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	3	Parcel #4 Mercia's Changed Sta. Rev 11+73 RT. ~ Rev. 11+90 RT. TO Rev 11+73 LT. ~ Rev. 11+90 LT. Per C.O.# 5036	9-9-81	JDP	T.P.M.
2	3	Parcel #1 SCHOOL DIST. CHANGE TITLE TAKEN FROM WD TO WDOE PER C.O. 5091	9-17-81	JDP	T.P.M.
3	3,5	Parcel #1 Elmore Town School District Deleted take area. Added CUL.(P) at REV. 11+60 to REV. 11+69 RT. Increased Slope (T) Area to 1680 S.F.± (0.04 A±) Per C.O.# 5121	10-22-81	JDP	T.P.M.

MADE BY: K. D. PERKINS DATE 7-17-81
CHECKED BY: F. J. KALNATI JR. DATE 7-20-81

DR. RT. - DRAINAGE RIGHT
DIT. RT. - DITCHING RIGHT
CH. RT. - CHANNEL RIGHT
DRIVE RT. - DRIVE RIGHT
CUL. RT. - CULVERT RIGHT
Ⓧ - DEMOLITION OR REMOVAL
Ⓜ - 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 - SR - SLOPE RIGHTS
P - P - PROPERTY LINE
- Δ - Δ - TOP OF CUT
- ○ - ○ - TOE OF SLOPE

APPROVED [Signature] DATE 7-21-81
CHIEF OF PLANNING & TITLES

PROJECT ELMORE
NO. BHS 0241(8)S
SHEET 3 OF 6

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
8	GRIES, KONRAD & ANNE GRIES, CHRISTIAN L. GRIES, DAVID J. GRIES, PETER A. GRIES, DANIEL	5	REV. 15+07 LT. REV. 15+90 LT.	REV. 16+42 LT.			DRIVE (T) SLOPE (T) (135 S.F.±)	AGREE.					20' PEA STONE DRIVE PERMIT DATE: M.P. 6.809
9	ALLAIRE, MINNIE M.	5	REV. 16+40 LT.	REV. 16+57 LT.			SLOPE (T) (45 S.F.±)	AGREE.					
10	ELMORE COOPERATIVE WATER SYSTEM												UTILITY
11	NEW ENGLAND TELEPHONE & TELEGRAPH CO.												UTILITY
12	VILLAGE OF MORRISVILLE (WATER & LIGHT DEPARTMENT)												UTILITY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: K.D. PERKINS DATE: 7-17-81
CHECKED BY: F.J. MALHATI, JR. DATE: 7-20-81

DR. RT. - DRAINAGE RIGHT
DIT. RT. - DITCHING RIGHT
CH. RT. - CHANNEL RIGHT
DRIVE RT. - DRIVE RIGHT
CUL. RT. - CULVERT RIGHT
Ⓧ - 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 --- SR --- SLOPE RIGHTS
P --- P --- PROPERTY LINE
--- Δ --- Δ --- TOP OF CUT
--- ○ --- ○ --- TOE OF SLOPE

APPROVED: *Thomas P. Mays* DATE: 7-21-81
CHIEF OF PLANS & TITLES

PROJECT ELMORE
NO. BHS 0241(8)S
SHEET 4 OF 6

- TEMPORARY TRAFFIC SIGNAL NOTES.
1. THE CONTRACTOR SHALL ENSURE THAT THE SIGNAL INSTALLATION CONFORMS TO THE MANUAL OF TRAFFIC CONTROL DEVICES.
 2. THE TRAFFIC SIGNAL LAYOUT SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL SUBMIT THE POLE LAYOUT AND DESIGN FOR REVIEW PRIOR TO CONSTRUCTION.
 3. SIGNAL TIMING-TIMING ADJUSTMENTS REQUESTED BY THE RESIDENT ENGINEER SHALL BE ACCOMPLISHED WITHIN A 24 HOUR PERIOD AND PAYMENT SHALL BE SUBSIDIARY TO ITEM 637.10. THE ALL RED CLEARANCE INTERVAL IS BASED ON AN ASSUMED SPEED OF 25 MPH. THE RESIDENT ENGINEER SHALL MAKE SEVERAL TRIAL RUNS TO DETERMINE THE PROPER ALL RED CLEARANCE INTERVAL.
 4. SIGNAL FACES SHALL CONSIST OF 12" LENSES.
 5. THE BOTTOM OF THE HOUSING OF A SIGNAL FACE SUSPENDED OVER A ROADWAY SHALL BE NOT LESS THAN 16 1/2 FEET NOR MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY. THE BOTTOM OF A SIGNAL FACE NOT MOUNTED OVER A ROADWAY, SHALL NOT BE LESS THAN 8 FEET NOR MORE THAN 15' ABOVE THE SIDEWALK OR, IF NONE, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY. CAUTION SHOULD BE USED TO INSURE COMPLIANCE WITH THE HEIGHT REQUIREMENTS IN THE EVENT THE NEW APPROACH GRADES DIFFER SIGNIFICANTLY FROM THE OLD ROAD GRADE.
 6. SIGNAL FACES FOR ANY ONE APPROACH SHALL BE NOT LESS THAN 8 FEET APART MEASURED HORIZONTALLY BETWEEN CENTER OF FACES. ALL POST, SIGNS AND PAVEMENT MARKINGS SHALL BE CONSIDERED AS SUBSIDIARY TO ITEM 637.10.
 7. SIGNAL HEADS MAY BE HUNG ON A SPAN WIRE OR ON A CANTILEVER MAST ARM. AT LEAST ONE SIGNAL HEAD SHALL BE UNMISTAKABLY IN LINE WITH THE CENTER OF APPROACHING TRAFFIC AT ALL TIMES. THE SECOND SIGNAL HEAD MAY BE POST MOUNTED LOCATED AT A DISTANCE NO GREATER THAN 24" FROM THE CENTER OF THE APPROACH LANE WHEN THE STOP BAR IS 40' FROM THE SIGNAL HEAD. CONSULT THE MUTCD FOR ADDITIONAL INFORMATION CONCERNING SIGNAL PLACEMENT.
 8. A 400 WATT LUMINAIRE AND MAST ARM SHALL BE PROVIDED ON A POLE ON EACH APPROACH AT A MOUNTING HEIGHT OF AT LEAST 30' ABOVE ROADWAY CENTERLINE. THE INTENT IS TO LIGHT UP THE AREA AROUND THE SIGNAL HEADS AND STOP BAR FOR INCREASED VISIBILITY. THE RESIDENT ENGINEER SHALL DETERMINE THE ADEQUACY OF THE LIGHTING AND DIRECT CHANGES IF THE LIGHTING IS INSUFFICIENT.
 9. POLES SUPPORTING SPAN WIRES AND/OR MAST ARMS SHALL BE ADEQUATELY BRACED OR GUTED AND SHALL NOT BE PLACED SO AS TO CREATE A HAZARD TO THE TRAVELING PUBLIC.
 10. STOP BARS (24" REFLECTORIZED WHITE LINES) SHALL BE PLACED A MINIMUM OF 40' FROM CLOSEST SIGNAL HEAD AND SHALL BE ACCOMPANIED BY A "STOP HERE ON RED" SIGN. (SEE SHEET # FOR SIGN DETAIL AND LAYOUT).
 11. ONCE INSTALLED, SIGNAL HEAD SHOULD NOT SHOW BLANK INDICATIONS. THEY SHALL OPERATE IN THE FLASHING MODE OR BE COVERED WITH BLACK PLASTIC WHEN NOT OPERATING.
 12. AT T.H. #2, TEMPORARY SIGNAL POLES WITH SPAN WIRES ARE TO BE LOCATED SO THAT TRAFFIC BRACED CAN SEE HEADS #1 AND PROCEED WITH PHASE A MOVEMENT.

Removal & Disposal of Existing Guard Rail
 14+28 ~ 14+44 RT
 14+65 ~ 14+97 RT
 13+10 ~ 14+32 LT
 14+50 ~ 14+68 LT

Guard Rail, Heavy Duty Steel Beam w/ Wood Posts, Type II
 13+57-14+32 LT
 13+825-14+52 RT
 14+52-14+64.5 LT
 14+70-15+12.5 RT

Crushed Stone Shoulders
 1970-16+50 LT

Breakaway Cable Terminal
 13+32-13+57 LT
 13+64.5-13+89.5 RT
 14+64.5-14+87.5 LT
 15+12.5-15+37.5 RT

Construct Drive
 12+35 RT
 15+70 LT
 15+07 LT

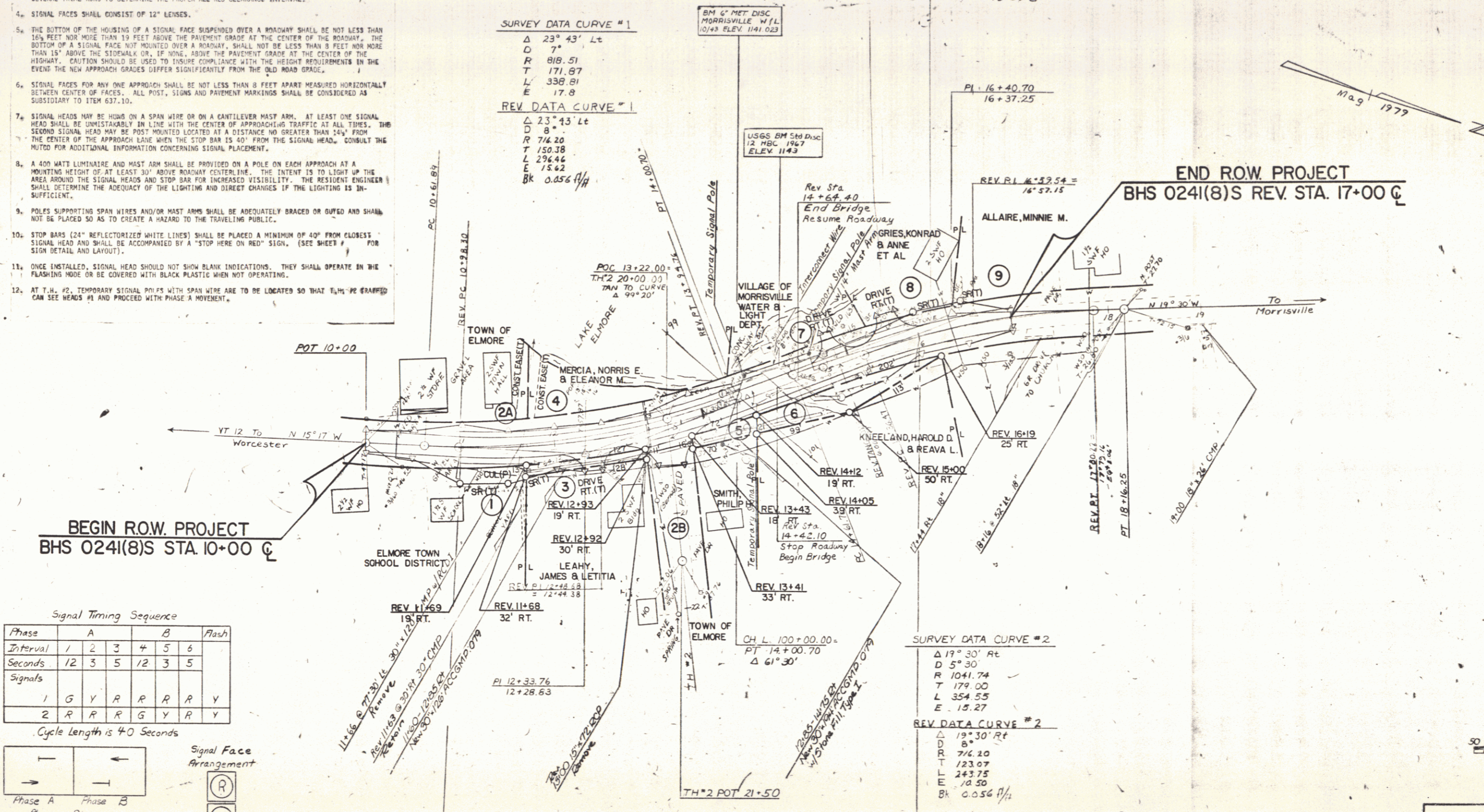
Construct Approach
 13+22 RT

SURVEY DATA CURVE #1
 Δ 23° 43' Lt
 D 7°
 R 818.51
 T 171.87
 L 338.81
 E 17.8

REV DATA CURVE #1
 Δ 23° 43' Lt
 D 8°
 R 714.20
 T 150.38
 L 296.46
 E 15.62
 BK 0.056 1/4

BM 6" NET DISC MORRISVILLE W.F.L.
 10+43 ELEV. 1141.023

USGS BM 5th Disc
 12 H.C. 1947
 ELEV. 1143



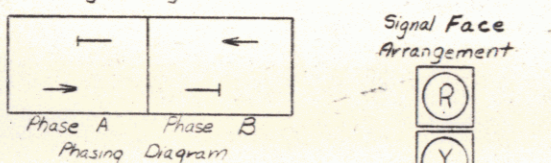
BEGIN ROW PROJECT
 BHS 0241(8)S STA. 10+00 C

END ROW PROJECT
 BHS 0241(8)S REV. STA. 17+00 C

Signal Timing Sequence

Phase	A	B	Flash
Interval	1 2 3 4 5 6		
Seconds	12 3 5 12 3 5		
Signals	1 G Y R R R R Y		
	2 R R R G Y R Y		

Cycle Length is 40 Seconds



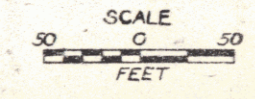
DATUM
 VERTICAL NSVD 1929
 HORIZONTAL N/A

REV STA 11+00 BEGIN PROJECT
 CONSTRUCT SATISFACTORY BHS 0241(8)S
 APPROACH

REV STA 16+00 END PROJECT
 CONSTRUCT SATISFACTORY BHS 0241(8)S
 APPROACH

SURVEY DATA CURVE #2
 Δ 19° 30' Rt
 D 5° 30'
 R 1041.74
 T 179.00
 L 354.55
 E 15.27

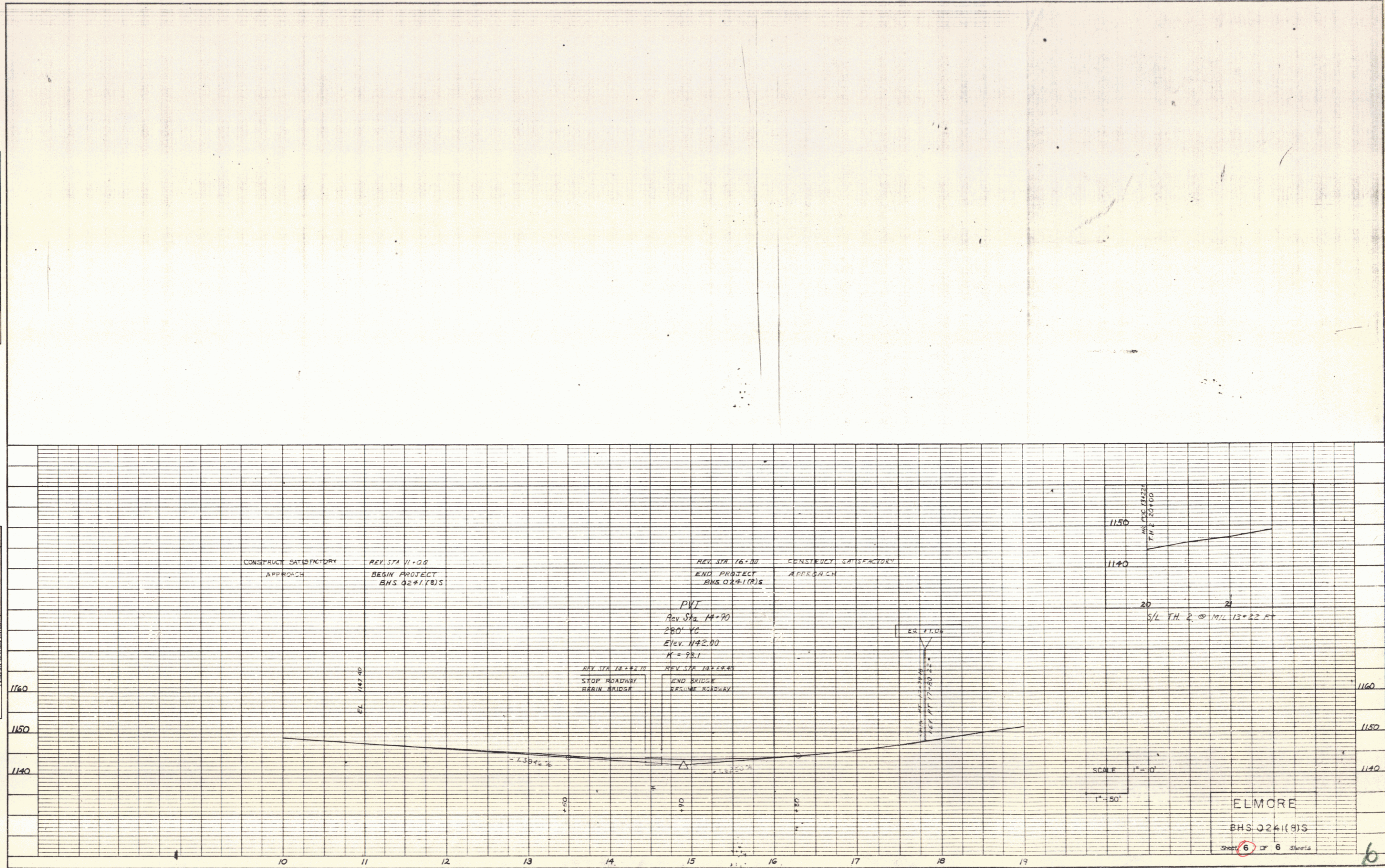
REV DATA CURVE #2
 Δ 19° 30' Rt
 D 5°
 R 714.20
 T 123.07
 L 243.75
 E 10.50
 BK 0.056 1/4



SURVEYED BY R. CLARK DATE 6/79
 DRAWN BY T. SHERMAN DATE 8/79
 TRACED BY J. BITMAN DATE 8/79
 ELMORE
 PROJ. BHS NO. 0241(8)S
 SHEET 5 OF 6

DATE	
BY	
CHECKED	
APPROVED	
PROJECT	
LOCATION	
NO. OF SHEETS	
NO. OF THIS SHEET	
PLAN	
NOTE BOOK	

DATE	
BY	
CHECKED	
APPROVED	
PROJECT	
LOCATION	
NO. OF SHEETS	
NO. OF THIS SHEET	
PROFILE	
NOTE BOOK	



K&E PLATE 1, PLAN PROFILE

ELMORE
BHS 0241(9)S
Sheet 6 of 6 Sheets

6