

INDEX OF SHEETS

1	Title
2	Typical
3	Drainage & Item Quantities
4	Grade & Earthwork
5	Right of Way Detail
6-8	Plan & Profile
9-10	Blank
STANDARD SHEETS	
11	A-60 Slopes in Solid Rock Elevation (50 MPH & Over)
12	S-6 Slope Grading, Embankments
13	D-13 Drive Intersections
14	D-2 Underdrain & Carrier Pipe Details
15	D-4 Underdrain Flushing Basin
16	D-6 Reinforced Concrete Drop Inlet with Grate
17	D-10 Cast Iron Grate, Type B
18	E-2 Road Construction Approach Signs
19	E-3 Bridge Construction Approach Signs
20	E-6 On Project Construction Signs
21	G-1 Guard Rail, Std. Steel Beam with Wood Posts, Type II Anchors
22	G-1d Guard Rail, Std. Steel Beam with Wood Posts, Type II Approach End
23	G-6a Guard Rail, 3 Cable with Light Wood Posts; Anchor
24	G-19 Breakaway Cable Terminal for Guard Rail, Steel Beam with Wood Posts Type II
25	T-1 Temporary Erosion Control Details
26	T-2 Temporary Erosion Control Details
27	J-1 Boundary Markers
28	Blank
29-30	Cross Sections
31-32	Bridge 180 Series
33-34	Bridge 190 Series

RECORD PLANS-MATERIAL SUPPLIERS

CONTRACTOR-EUGENE & JUDITH GRANDFIELD, MORETOWN, VT.

CONTRACT DATED-11 OCTOBER 1977

CONSTRUCTION BEGAN-12 OCTOBER 1977

CONSTRUCTION SUSPENDED-30 NOVEMBER 1977 RESUMED-15 JUNE 1978

CONSTRUCTION COMPLETED-29 AUGUST 1978 ACCEPTED-13 SEPTEMBER 1978

RESIDENT ENGINEER-R.W. JENSEN RECORD PLANS-PAUL E. SINGLETON

SAND BORROW, GRANULAR BORROW, GRANULAR BACKFILL FOR STRUCTURES-KNAFF PIT

WEST TOPSHAM, VT.

SUBBASE OF GRAVEL-LE PAGE PIT, BARRE, VT. CONCRETE-ANDERSON, BERLIN, VT.

REINFORCING STEEL-AUBURN STEEL CO. INC., AUBURN, N.Y.

CGMP, ACCGMP-LANE METAL PRODUCTS INC., BALLISTON, N.Y.

CAST IRON GRATES WITH FRAMES-L.E. LEBARRON FOUNDRY CO., BROCKTON, MASS.

UNDERDRAIN, CARRIER PIPE, FLUSHING BASINS-LANE METAL

PRODUCTS INC., BALLISTON, N.Y.

WOOD MARKER POSTS, BOUNDARY MARKERS, GUARD RAIL, ANCHORS FOR

GUARD RAIL, CABLE FOR GUARD RAIL (BREAKWAY), SEED, FERTILIZER,

HAY MULCH, EXCELRIOR MATTING-LAFAYETTE-SHELDON INC., ESSEX JCT, VT.

NOTE: ANY FURTHER INFORMATION CONCERNING

CONTRACTS, AGREEMENTS OR OTHER MATTERS

RELATIVE TO THIS PROJECT MAY BE FOUND ON

STATE THE STATE BOOKS OR THE ESTIMATE

FILE

STATE OF VERMONT DEPARTMENT OF HIGHWAYS



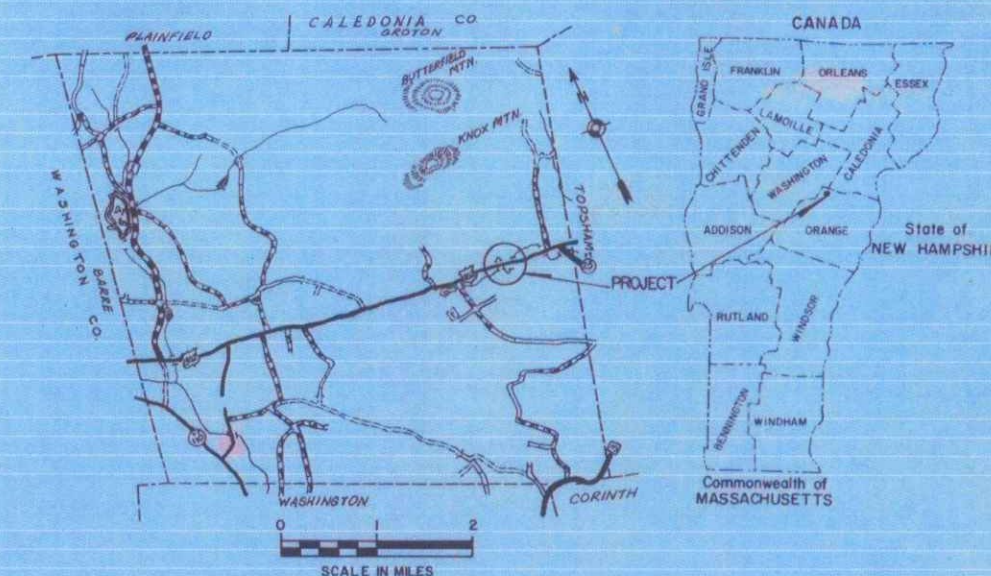
PROPOSED IMPROVEMENT TOWN OF ORANGE COUNTY OF ORANGE

U.S. ROUTE 302

BEGINNING AT A POINT ON U.S. ROUTE 302, 5.21 MILES EASTERLY
OF THE ORANGE / BARRE TOWN LINE, AND EXTENDING EASTERLY
0.170 MILES.

LENGTH OF PROJECT 900 FEET = 0.170 MILES

1976	AADT	1720
1986	AADT	2185 (Est.)
1986	DHV	310 (Est.)
1996	AADT	2650 (Est.)
1996	DHV	375 (Est.)
	D	56%
	T	6%
DESIGN SPEED		40 MPH

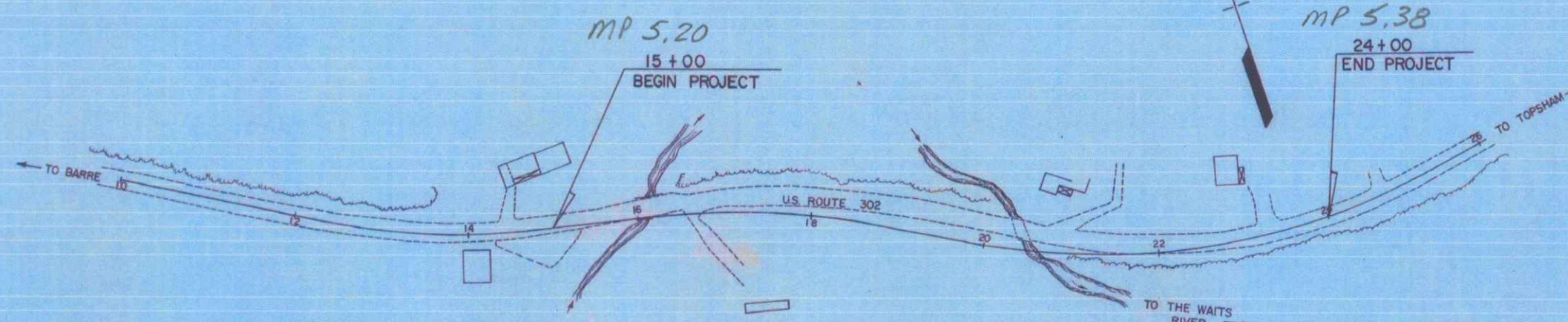


SCALE IN MILES

Pin # 76E097

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---
POINT OF ACCESS	X
FENCE LINE	---
STONE WALL	---
TRAVELED WAY	---
GUARD RAIL	---
RAILROAD	---
SURVEY LINE	---
CULVERT	---
POWER POLE	---
TELEPHONE POLE	---
TREES	---
F.A. CONST. IDENTIFICATION SIGNS	---
PROPERTY LINE	---
R.O.W. TAKING LINE	---
SLOPE RIGHTS	---
TOP OF CUT	---
TOE OF SLOPE	---



SCALE IN FEET

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 Highway and Bridge Construction dated
March 1976 as approved by the Federal Highway
Administration on October 27 1976, including
all subsequent revisions and such revised specification
and special provisions as are incorporated in these plans.

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD	
APPROVED: <i>[Signature]</i>	DATE: 7/22/77
CHIEF ENGINEER	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED: _____	DATE: _____
DIVISION ENGINEER	
PROJECT: TQF # 026-1(16)	
SHEET 1 OF 4 SHEETS	
0-10	SRS 12/17/70

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.	PG.	REMARKS
1A	McKAY, DUNCAN C. & JUDITH M. (H&W)	4, 5, 6	REV. 12+31.23 RT.	REV. 24+91 RT.	0.75 A±	74.25 A±	CONST. EASE. (T) CULVERT, DITCH & DRAINAGE (P) DRIVE (T)	W.D.O.E.	8-29-77	ORANGE	29	21, 22	(0.07 A±) 12', GRAVEL, M.P. 0524 DRIVE RELEASE DATE DRIVE PERMIT DATE (0.07 A±) (0.02 A±) BARN PRIVATE POLES & POWER LINE 40', GRAVEL, M.P. 0398 DRIVE RELEASE DATE DRIVE PERMIT DATE TURN-OUT (1875 S.F.±)
			REV. 13+76 RT.	REV. 14+44 RT.									
			REV. 14+28 RT.										
			REV. 16+50 RT.	REV. 17+50 RT.									
			REV. 16+60 RT.	REV. 18+90 RT.			SLOPE (T)						
			REV. 19+55 RT.	REV. 20+90 RT.			SLOPE (T)						
			REV. 24+00 RT.	REV. 24+10 RT.			DITCH & DRAINAGE (P)						
			REV. 14+10 RT.				ALL R.T. & I.						
			REV. 14+15 RT.	REV. 15+50 RT.			DRIVE (T)						
			REV. 14+00 RT.										
			REV. 13+70 RT.	REV. 14+71 RT.			RIGHT TO CONST. (T)						
1B		5	REV. 15+55 LT.	REV. 16+55 LT.	0.04 A±	25.0 A±							
			REV. 12+31.23 LT.	REV. 18+15 LT.									
			TOTAL		0.79 A±	99.25 A±							
2	DIMICK, RODNEY D. & LINDA A.	5, 6	REV. 19+95 LT.	REV. 20+30 LT.			CHANNEL (P) DRIVE (T)						135 S.F. 14', GRAVEL, M.P. 0533 DRIVE RELEASE DATE DRIVE PERMIT DATE
			REV. 21+18 LT.										
3	MARTIN, ROBERT G. & BEVERLY (H&W)	6	REV. 22+05 LT.	REV. 23+35 LT.			SLOPE (T) SLOPE (T)						(0.03 A±) (60 S.F.±)
			REV. 23+75 LT.	REV. 24+15 LT.									
4	TOPSHAM TELEPHONE CO., INC.												UTILITY
5	WASHINGTON ELECTRIC COOPERATIVE INC.												UTILITY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	3, 4 & 5	PARCEL NO. 1 MC KAY ADDED PRIVATE POWER LINE & POLES TO LAYOUT & DETAIL SHEETS PER C.O.#3282	2/8/77	A.G.S.	T.P.M.
2	3, 6	Parcel No. 2 Add Channel Rights Limits Per C.O.#3337	4/13/77	A.G.S.	T.P.M.
3	35, 6	Parcel #2 Dimick. Change in Title from Bushey to Dimick Per C.O.#3350	4/20/77	A.G.S.	T.P.M.
4	3, 4	Parcel #1 M. Kay Added Drive at Sta. 14+00.00 Also Added Right to Construct Turnout (T) Per C.O.#3537	10/26/77	KSP	T.P.M.

MADE BY: KDP DATE 2-2-77
CHECKED BY: WEB DATE 2-2-77

DR. RT. - DRAINAGE RIGHT
DTE. 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

SR - SR SLOPE RIGHTS
P - P PROPERTY LINE
A - A TOP OF CUT
O - O TOP OF SLOPE

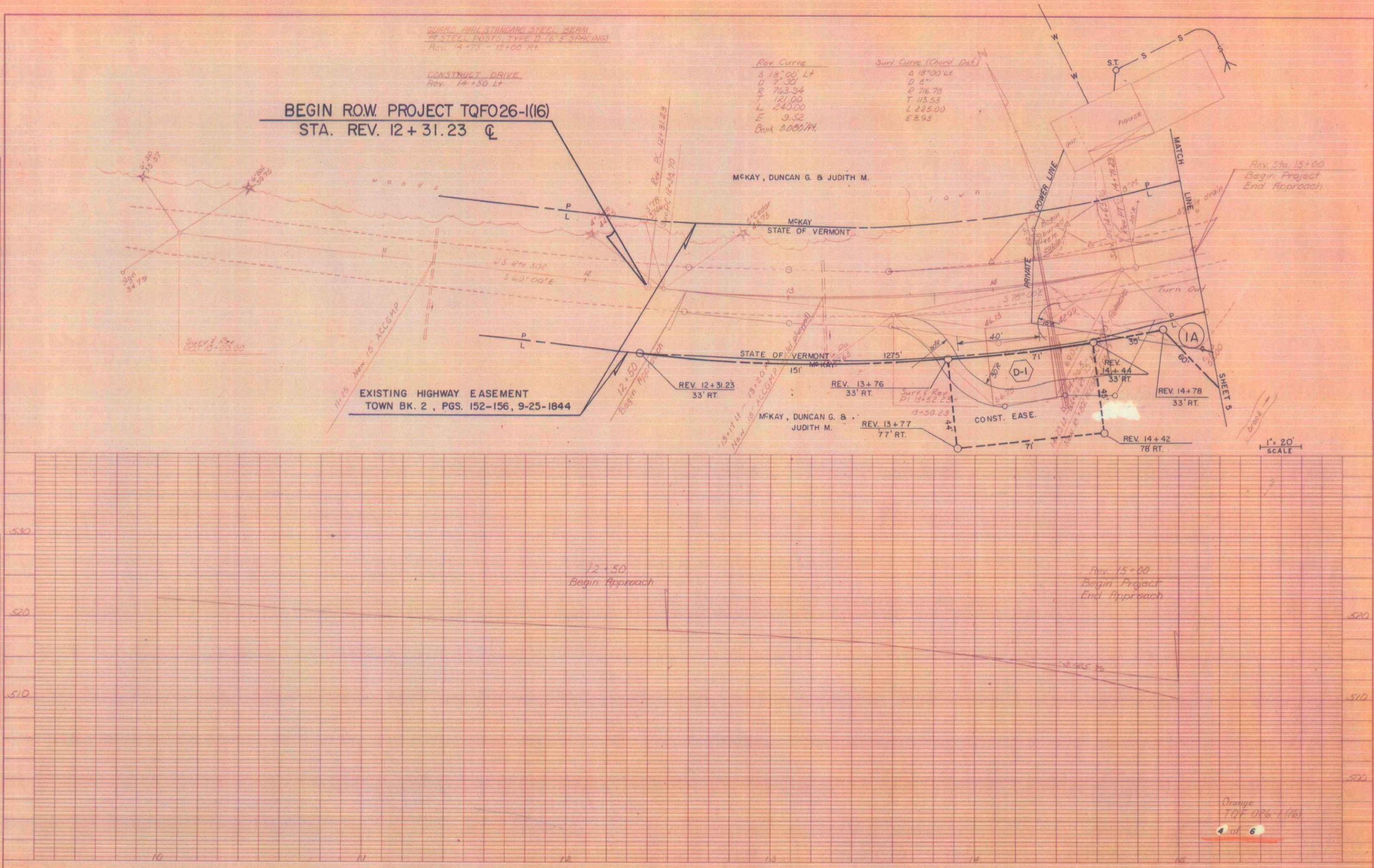
APPROVED: Thomas L. Mays DATE 2-2-77
CHIEF OF PLANS & TITLES

PROJECT ORANGE
NO. TQ F 026-1 (16)
SHEET 3 OF 6

Sheet 3 of 44

PLAN	DATE	BY	CHKD
DESIGNED	10/1/86	J.M.	
DRAWN	10/1/86	J.M.	
CHECKED	10/1/86	J.M.	
IN CHARGE	10/1/86	J.M.	

PROFILE	DATE	BY	CHKD
DESIGNED	10/1/86	J.M.	
DRAWN	10/1/86	J.M.	
CHECKED	10/1/86	J.M.	
IN CHARGE	10/1/86	J.M.	



DEMOLITION / DISPOSAL OF BUILDING
 ① Barn 14+10 20' RT

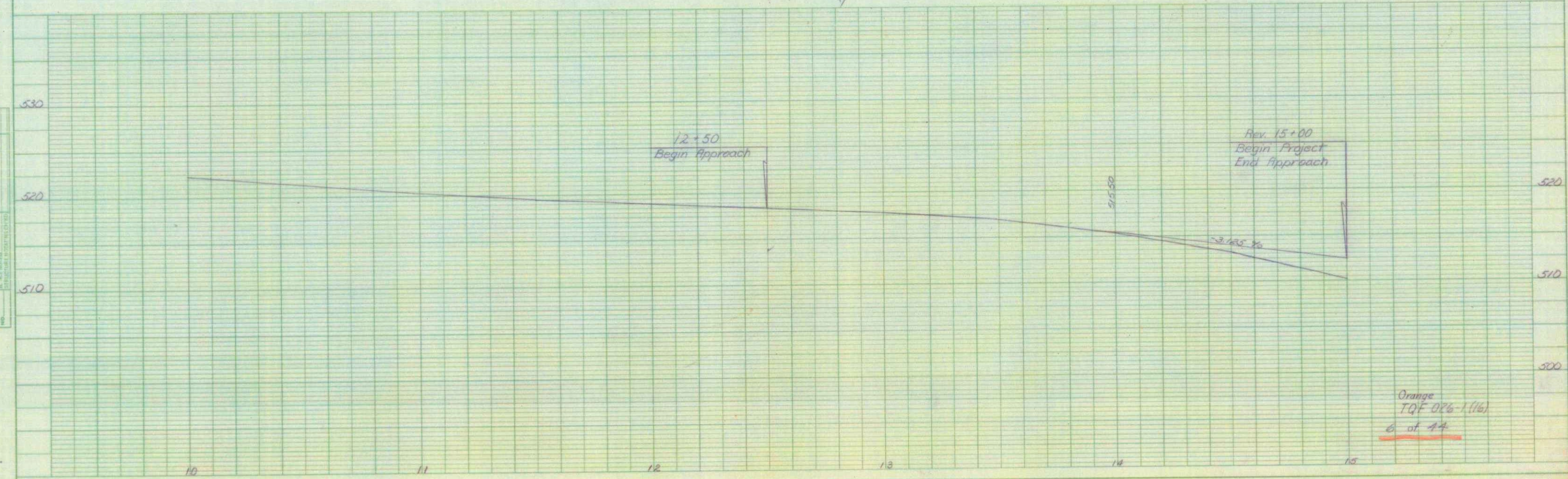
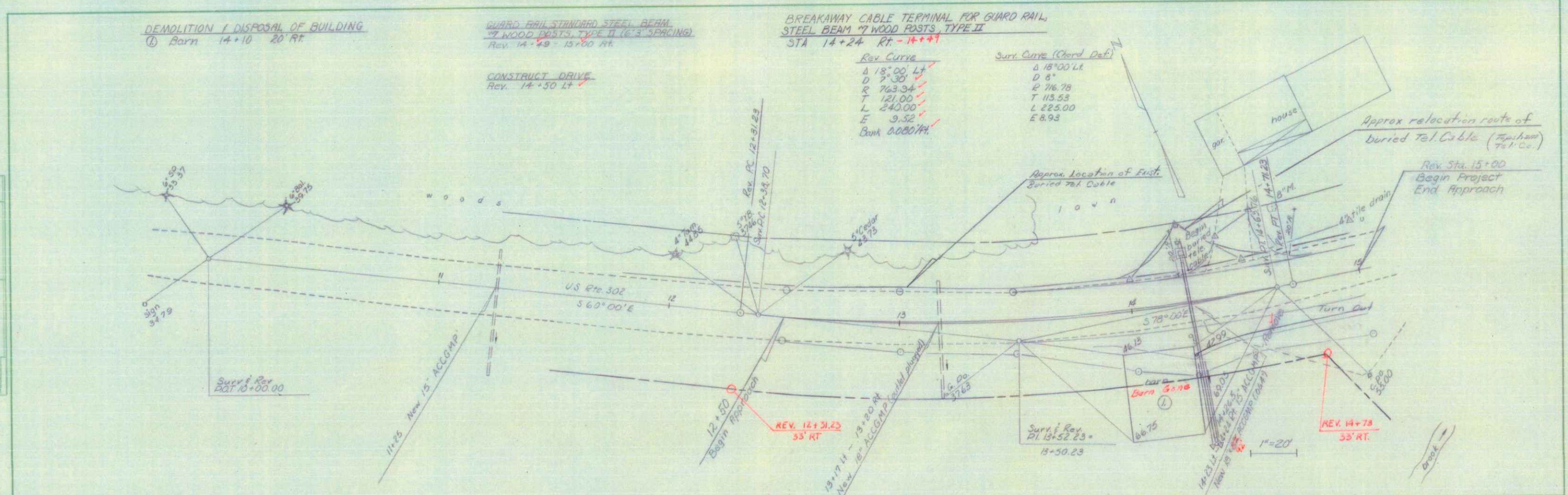
GUARD RAIL STANDARD STEEL BEAM
 7" WOOD POSTS, TYPE II (6'3" SPACING)
 Rev. 14+49 - 15+00 RT

BREAKAWAY CABLE TERMINAL FOR GUARD RAIL
 STEEL BEAM 7" WOOD POSTS, TYPE II
 STA 14+24 RT - 14+47

CONSTRUCT DRIVE
 Rev. 14+50 RT

REV CURVE
 Δ 18°00' LT
 D 7°30'
 R 763.34
 T 121.00
 L 240.00
 E 9.52
 Bank 0.00074

SURV CURVE (Chord Def)
 Δ 18°00' LT
 D 8°
 R 716.78
 T 113.53
 L 225.00
 E 8.93



Orange
 TQF 026-1(16)
 6 of 14

Existing Bridge
Concrete Slab (Built in 1922)
Solid Concrete Guard Rail

T.B.N. #2
S.I.T. 10' Apple
Assumed Elev
487.15

Rev Curve
Δ 40° 27' 01" LT
D 7° 30'
R 763.94
T 281.46
L 539.34
E 50.20
S 50.20

Survey Curve (Chord)
Δ 43° 06' 11"
D 0°
P 637.28
T 258.12
L 490.00
E 50.29

Rev. 24+00
End Project
Begin Approach

CONSTRUCT DRIVE
Rev. 21+15 LT
Rev. 23+15 LT

GUARD RAIL, STANDARD STEEL BEAM
"Y" WOOD POSTS, TYPE II (6'3" SPACING)
Rev. 20+00 - 21+04 LT

REMOVAL & DISPOSAL OF EXISTING
GUARD RAIL
Rev. 20+10 - 20+55 LT
Rev. 20+25 - 20+76 RT
GUARD RAIL, THREE CABLE "Y" LIGHT WOOD POSTS
Rev. 20+00 - 21+90 RT
Rev. 20+00 - 22+15

