FED ROAD DIVISION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
1	VT	S 241 (1)	POST WAR	1	41

INDEX OF SHEETS

SHEET NO.
1 TITLE PAGE
2 TYPICAL CROSS-SECTION OF IMPROVEMENT STABILIZED GRAVEL BASE COURSE OF CUTBACK ASPHALT WITH PEA STONE SEAL ITEM 304-8
3 BANKING AND WIDENING TABLES
4 QUANTITY SHEET (ITEMS AND DRAINAGE)
5-7 EARTHWORK SHEETS
8-14 PLAN AND PROFILE SHEETS
15 DETAILS OF 6' X 5' R.C. BOX EXTENSION
16 REINFORCING STEEL SCHEDULE
17 CONSTRUCTION DETAILS CD. (DRAINAGE AND MARKERS)
18 CONSTRUCTION DETAILS CD-1 (DITCHES)
19 CONSTRUCTION DETAILS CD-2 (TYPICAL SLOPE GRADING)
20 STANDARD STRUCTURE SHEET S-40 (BARRICADES, SIGNS & LIGHTS)
21 STANDARD STRUCTURE SHEET S-48-46 (THREE CABLE GUARD RAIL)
22 STANDARD STRUCTURE SHEET S-53-48 (P.C. R.C.P. DROP INLET)
23-39 CROSS SECTIONS
40-41 CHANNEL SECTIONS

STANDARD STRUCTURE SHEET APPROVED BY THE CHIEF ENGINEER, VERMONT STATE DEPARTMENT OF HIGHWAYS.

S-40 JUNE 10, 1950

PROJECT NAME & NUMBER	TYPE	PAVEMENT AREA
ORWELL S 241 (1)	1ST'S BASE COSE OF CUTBACK ASPHALT	18,440 S.Y.

RECORD PLANS

MATERIALS

SUB BASE OF GRAVEL WHITE PIT, ORWELL	REINFORCING STEEL VT. STRUCT. ST. CO., BURLINGTON
CRUSHED GRAVEL WHITE PIT, ORWELL	R.C.P. FEDERAL PIPE CO., GLENS FALLS, N.Y.
CUTBACK ASPHALT SOCONY VACUUM, E. PROV, R.I.	A.C.C.G.M.P. NEW ENG. METAL CULVERT CO., BOSTON, MASS.
SAND FOR SEAL CLARK & HAYNES, POULTNEY	CABLE FOR GUARD RAIL AMERICAN STEEL & WIRE CO., NY, N.Y.
PEASTONE FOR SEAL VT. MARBLE CO., FLORENCE	WHITE G.R. PAINT BRADLEY LABS, BRATTLEBORO
CEMENT LONE STAR PORT. CEM. CO., HUDSON, N.Y. CENTURY CEM. MF'G. CO. ROSENDALE, N.Y.	BLACK G.R. PAINT FRANKLIN PAINT CO. FRANKLIN MASS.
CONC. AGGREGATE W.C. KIRBY, BURLINGTON	
CONTRACTOR SHATTUCK, BURNETT & GONYO, BURL'GT'N	CONTRACT DATED APRIL 16, 1954
RESIDENT ENG'R R. FUNK	CONTRACT STARTED MAY 5, 1954
INSPECTORS A. DELANO	CONTRACT COMPLETED OCTOBER 19, 1954
RECORD PLANS R. FUNK 7-1-55	CONTRACT ACCEPTED OCTOBER 19, 1954

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

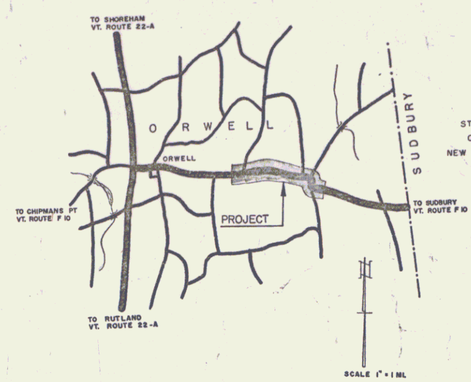
SECONDARY PROJECT

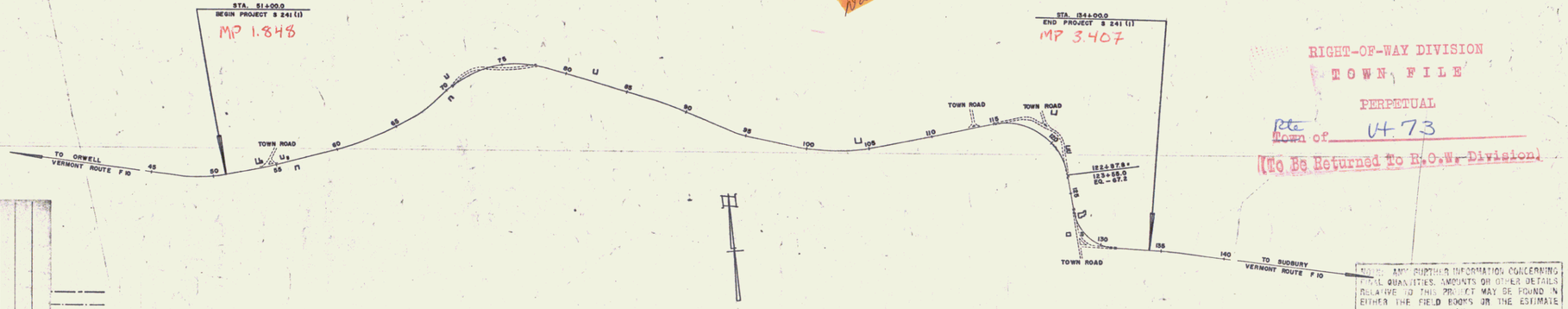
TOWN OF ORWELL
COUNTY OF ADDISON
VERMONT ROUTE F10
ORWELL–SUDBURY ROAD

BEGINNING AT A POINT APPROXIMATELY 9794 FEET EAST OF THE INTERSECTION OF VERMONT ROUTES 22-A AND F-10 AND EXTENDING EASTERLY 8232.8 FEET

LENGTH OF PROJECT 8232.8 FEET = 1.559 MILES

Route: VT73
Project: S241(1)
Pin: 00R411
Date: 02/08/1954





RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Rte
Town of VT 73
(To Be Returned To R.O.W. Division)

NOTE: ANY FURTHER INFORMATION CONCERNING TOTAL QUANTITIES, AMOUNTS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE FOUND IN EITHER THE FIELD BOOKS OR THE ESTIMATE FILE.

PROJECT S 241 (1) PROP.
NUMBER S 241 (1)
TYPE Stabilized Base Course of Cutback Asphalt
CONTRACTOR Shattuck, Burnett & Gonyo
YEAR 1954
LENGTH 1.559 MI.
LOCATION Orwell-Sudbury Road

ORWELL S 241 (1)
CONTR.-SHATTUCK, BURNETT, & GONYO
RECORD PLANS-R. FUNK 7-1-55
CONST. COMPLETED - OCT. 19, 1954

GROUND ELEVATION DATUM 1929 LINE
GRADE ELEVATION DATUM 1929 LINE

CURVE DATA

DEFLECTION OF ANGLE	Δ
DEGREE OF CURVE	D.
RADIUS OF CURVE	R.
TANGENT DISTANCE	T.
LENGTH OF CURVE	L.
EXTERNAL DISTANCE	E.
POINT OF INTERSECTION	P.I.
POINT OF CURVE	P.C.
POINT OF TANGENT	P.T.
POINT ON TANGENT	P.O.T.
POINT ON SUB-TANGENT	P.O.S.T.

SCALES

TITLE		1" = 400'
TYPICAL		1" = 2'
PLAN		1" = 50'
PROFILE	HORIZONTAL	1" = 50'
	VERTICAL	1" = 10'
CROSS-SECTIONS		1" = 5'

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD ROAD AND BRIDGE SPECIFICATIONS OF 1948, AS APPROVED JULY 25, 1949 BY THE BUREAU OF PUBLIC ROADS, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED
DISTRICT ENGINEER DATE

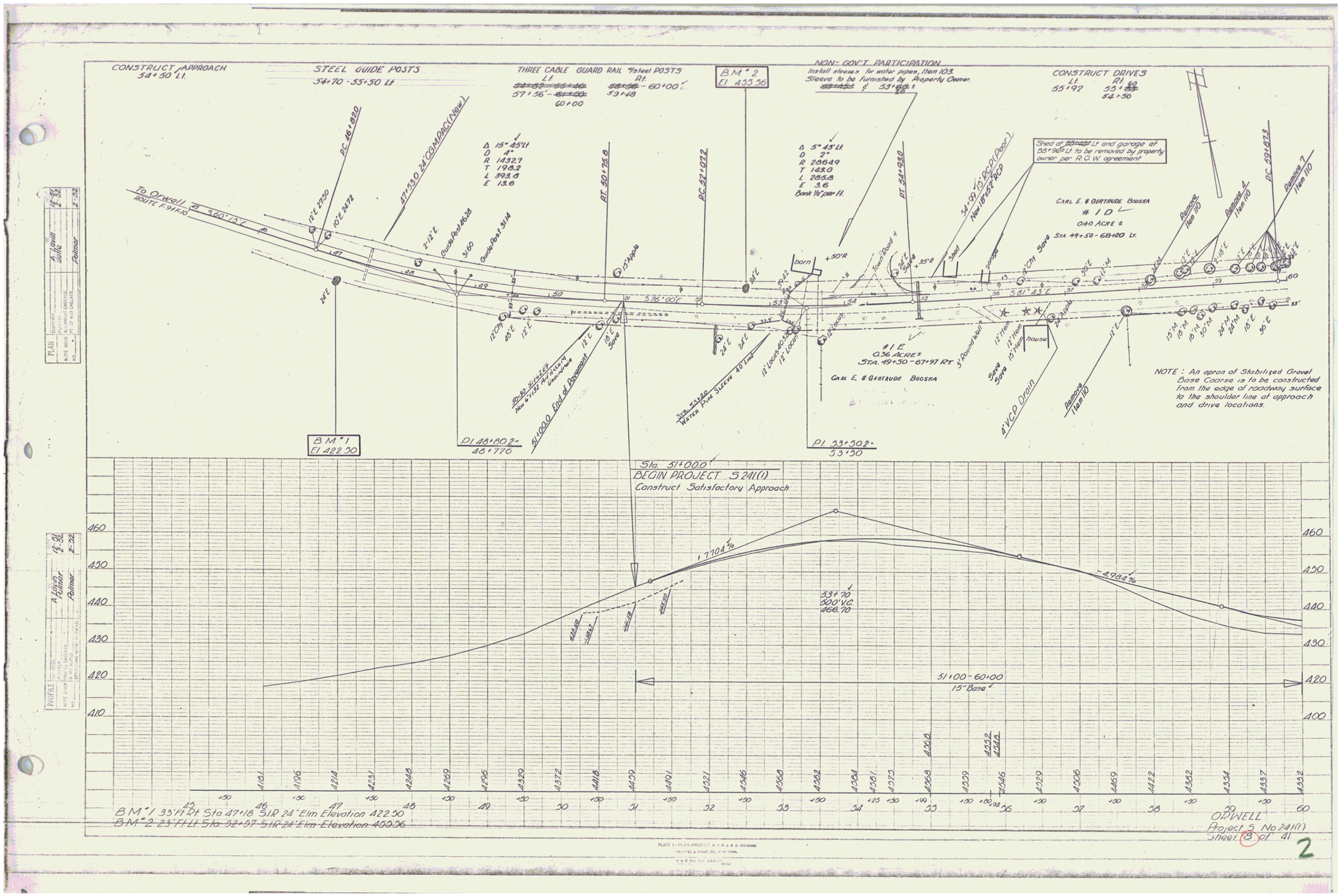
APPROVED	APPROVED	APPROVED	APPROVED	APPROVED
CONSTRUCTION ENGINEER	SECONDARY ENGINEER	DISTRICT ENGINEER	HIGHWAY ENGINEER	CHIEF ENGINEER
DATE 2-4-54	DATE 2-8-54	DATE 2-10-54	DATE 2-8-54	DATE 2-8-54

SUBMIT BY ORDER OF THE STATE HIGHWAY BOARD

PROJECT S NO. 241 (1)

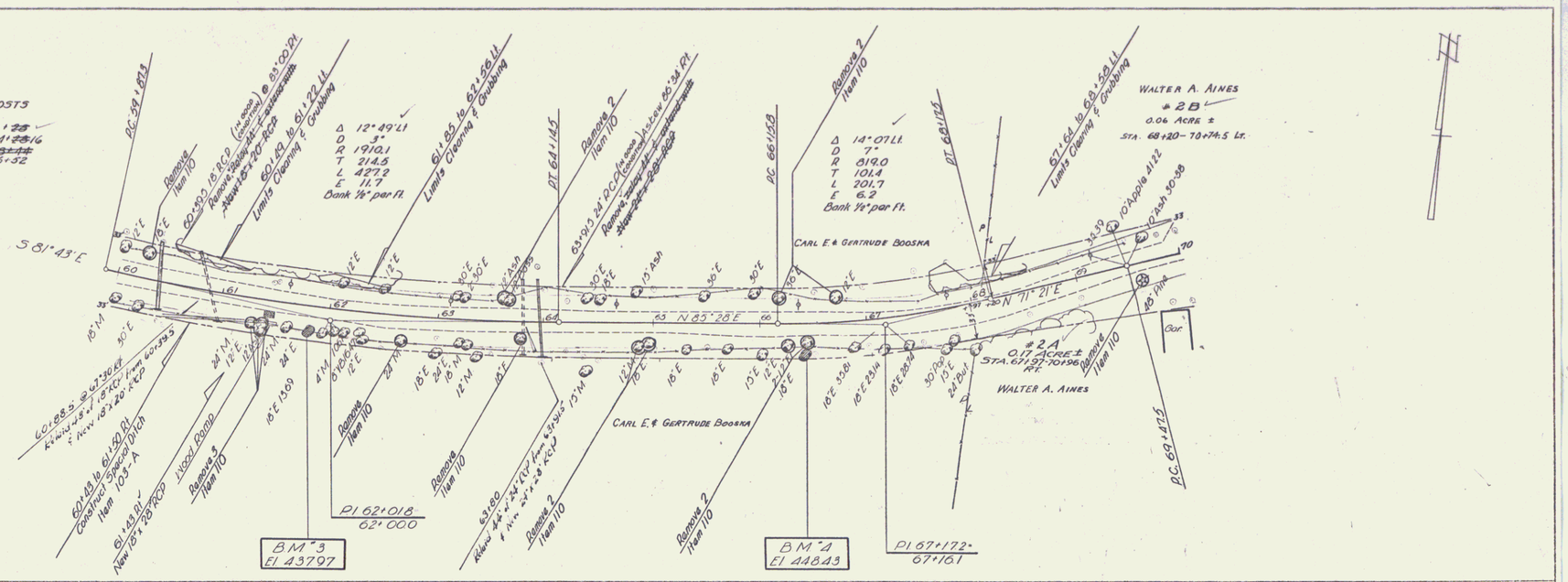
SHEET 1 OF 41 SHEETS

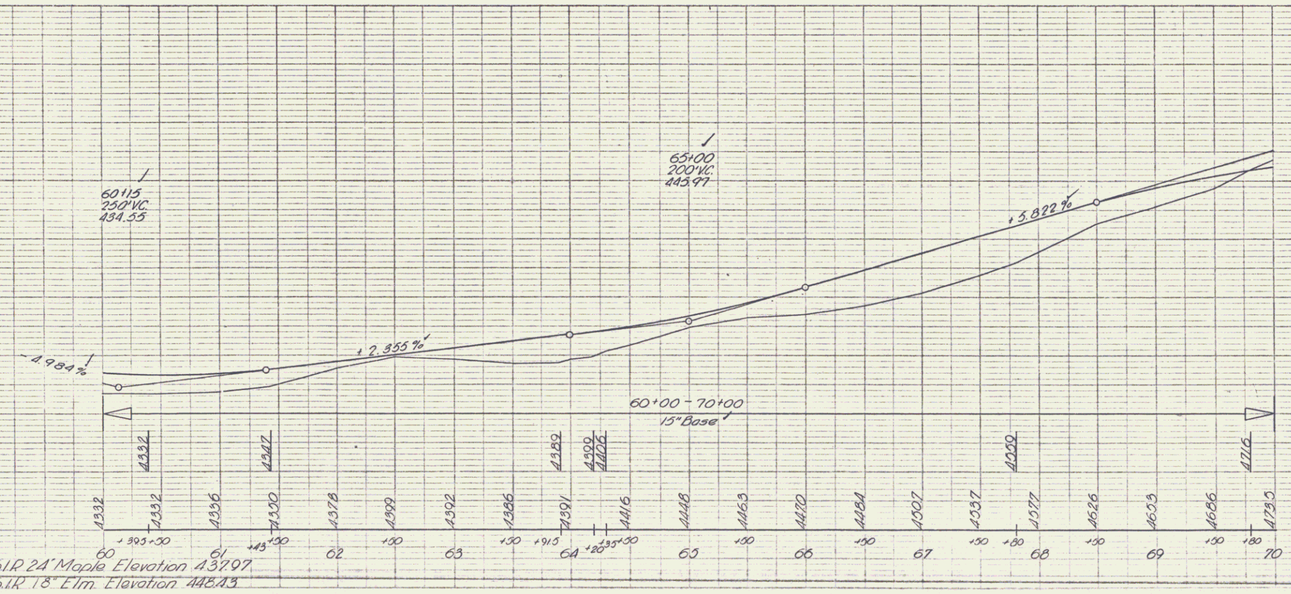
#73


CONSTRUCT APPROACH
54+50 Lt.
STEEL GUIDE POSTS
54+70 - 55+50 Lt
THREE CABLE GUARD RAIL 4" steel POSTS
Lt. 57+56 - 60+00
Rt. 53+48 - 60+00
B.M. 2
El 433.36
NON-GOV'T PARTICIPATION
Install sleeves for water pipes, Item 103.
Sleeve to be furnished by Property Owner.
53+62 ±
CONSTRUCT DRIVES
Lt. 55+92
Rt. 60 55+ 54+50
To Orwell
ROUTE F-91 F.N.
PC 46+030
47+530 24" COMPACT (New)
Δ 15° 45' Lt
D 4°
R 1432.7
T 198.2
L 393.8
E 13.6
PT 50+75.8
PC 52+072
Δ 5° 45' Lt
D 2°
R 2864.9
T 143.0
L 285.8
E 3.6
Bank 1½" per ft.
PT 54+930
54+90 15" RCP (Door)
New 18"x32" RCP
Shed at 55+96 Lt and garage at 55+96 Lt to be removed by property owner per R.O.W. agreement
CARL E. & GERTRUDE BOOSKA
#1D
0.40 ACRE ±
STA. 49+50 - 68+20 Lt.
Remove 7 Item 110
Remove 4 Item 110
Remove Item 110
PC 59+872
Town Road 4
barn
shed
garage
house
#1E
0.36 ACRE ±
STA. 49+50 - 67+97 RT.
CARL E. & GERTRUDE BOOSKA
50.30 Stabilized New 6"x32" Aluminum Culvert
51+000 End of Pavement
Sta. 53+30 Water Pipe Sleeve 40' Long
4" VCP Drain
NOTE: An apron of Stabilized Gravel Base Coarse is to be constructed from the edge of roadway surface to the shoulder line at approach and drive locations.
B.M. 1
El 422.50
PI 48+80.2 = 48+77.0
PI 53+50.2 = 53+50
Sta. 51+00.0
BEGIN PROJECT S 241(1)
Construct Satisfactory Approach
+7.704 %
-4.984 %
53+70
500' V.C.
466.70
51+00 - 60+00
15" Base
B.M. 1 33' Ft Rt Sta 47+18 S.I.R. 24" Elm Elevation 422.50
B.M. 2 23' Ft Lt Sta 52+97 S.I.R. 24" Elm Elevation 459.36
ORWELL
Project S No 241(1)
Sheet 8 of 41
2

CONSTRUCT DRIVES
Lt Rt
68+60 61+43
69+50

THREE CABLE GUARD RAIL W/steel POSTS
Lt Rt
~~60+00 to 60+93~~ 60+00 to 61+~~78~~
~~60+00 to 61+78~~
63+~~62~~ to ~~64+16~~ 63+96 63+~~78~~ to 64+~~78~~16
65+54 to 67+~~90~~ 96 65+72 to ~~66+44~~ 66+32





B.M. #3 24" Ft. Rt. Sta. 61+61 S.I.R. 24" Maple Elevation 437.97
B.M. #4 31" Ft. Rt. Sta. 66+42 S.I.R. 18" Elm. Elevation 448.43

ORWELL
Project S No. 241(1)
Sheet 9 of 41

3

PLATE 1 - PLAN-PROFILE

KEUFFEL & ESSER CO. NEW YORK
K.&E. Co. No. 346-1C

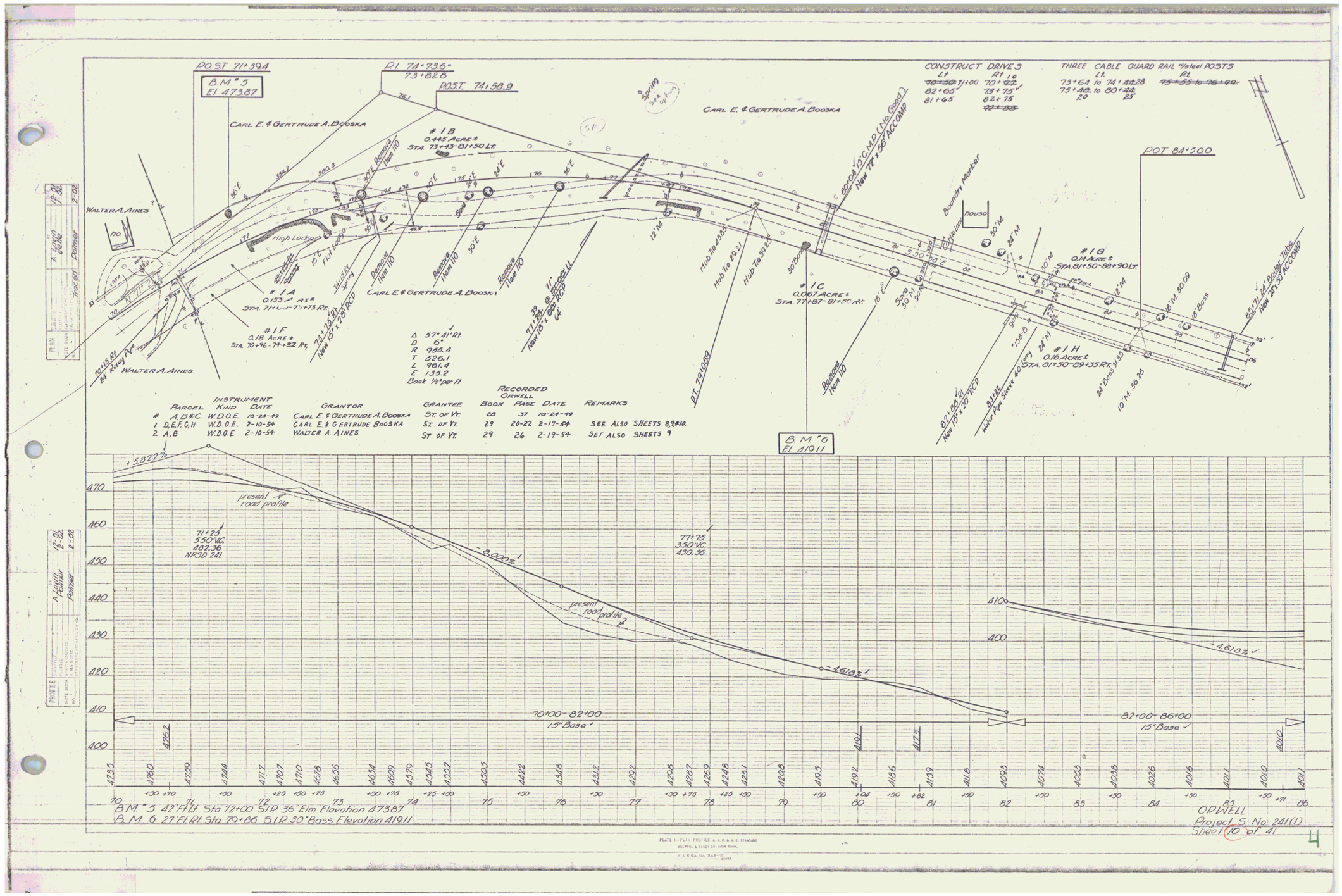
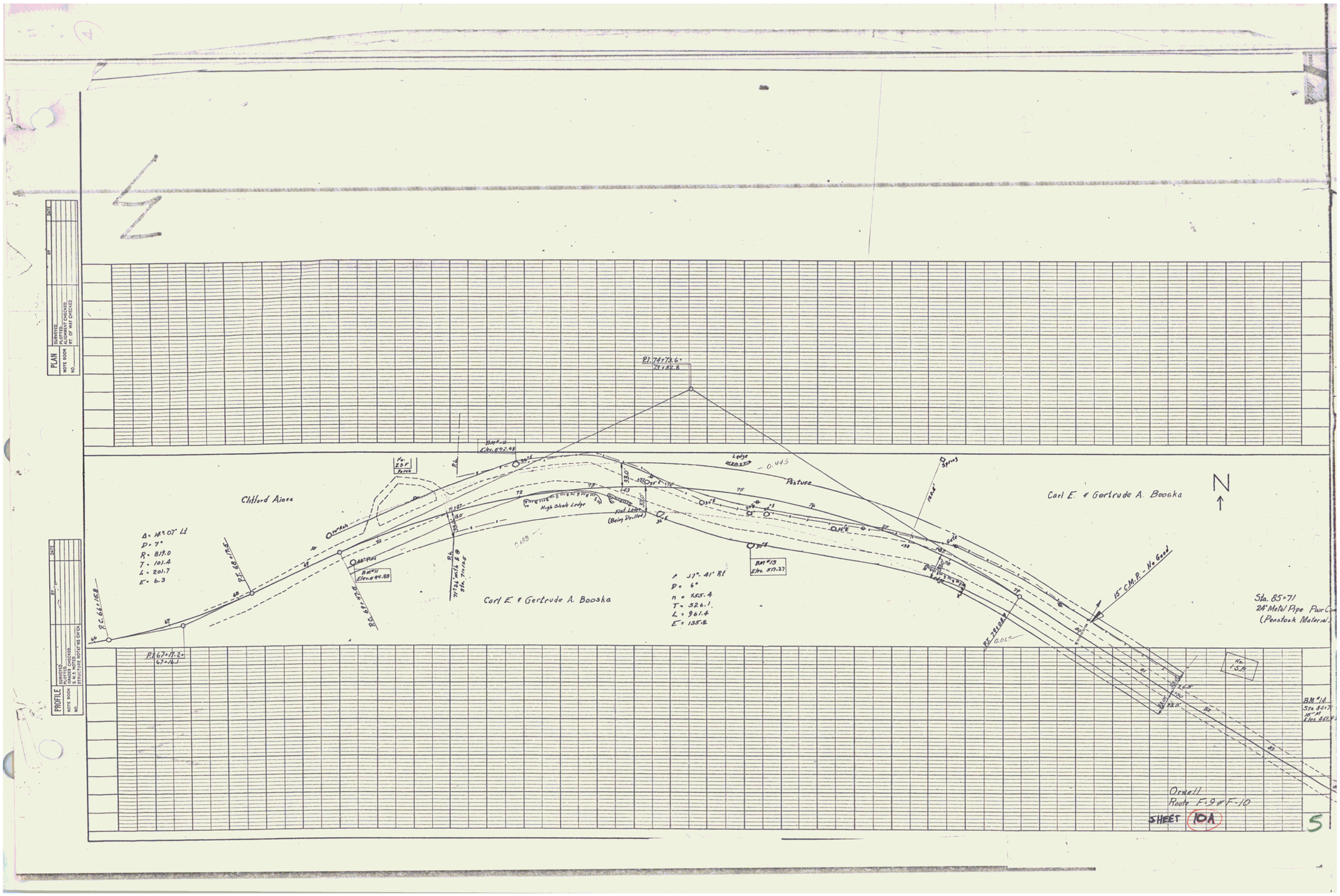
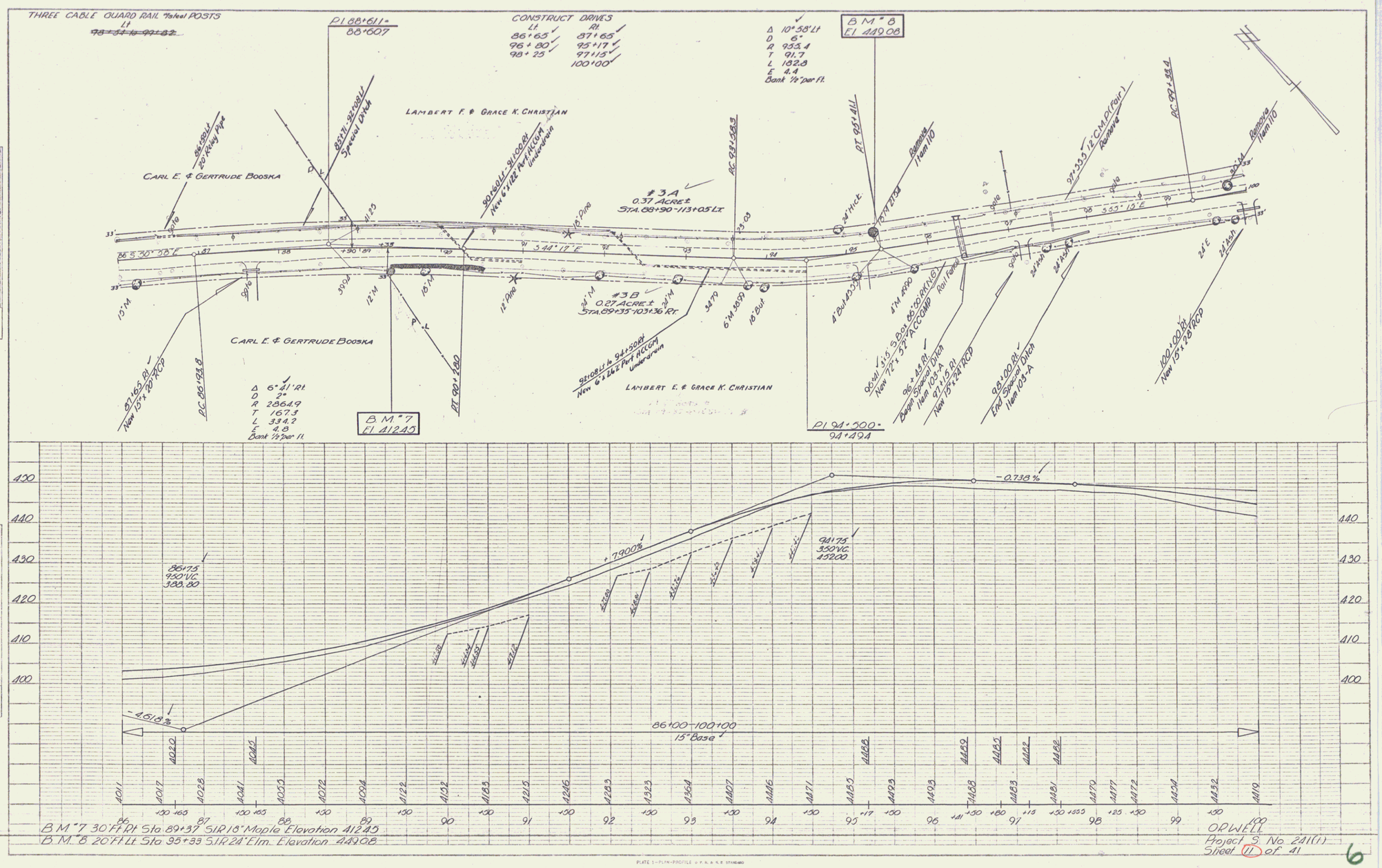
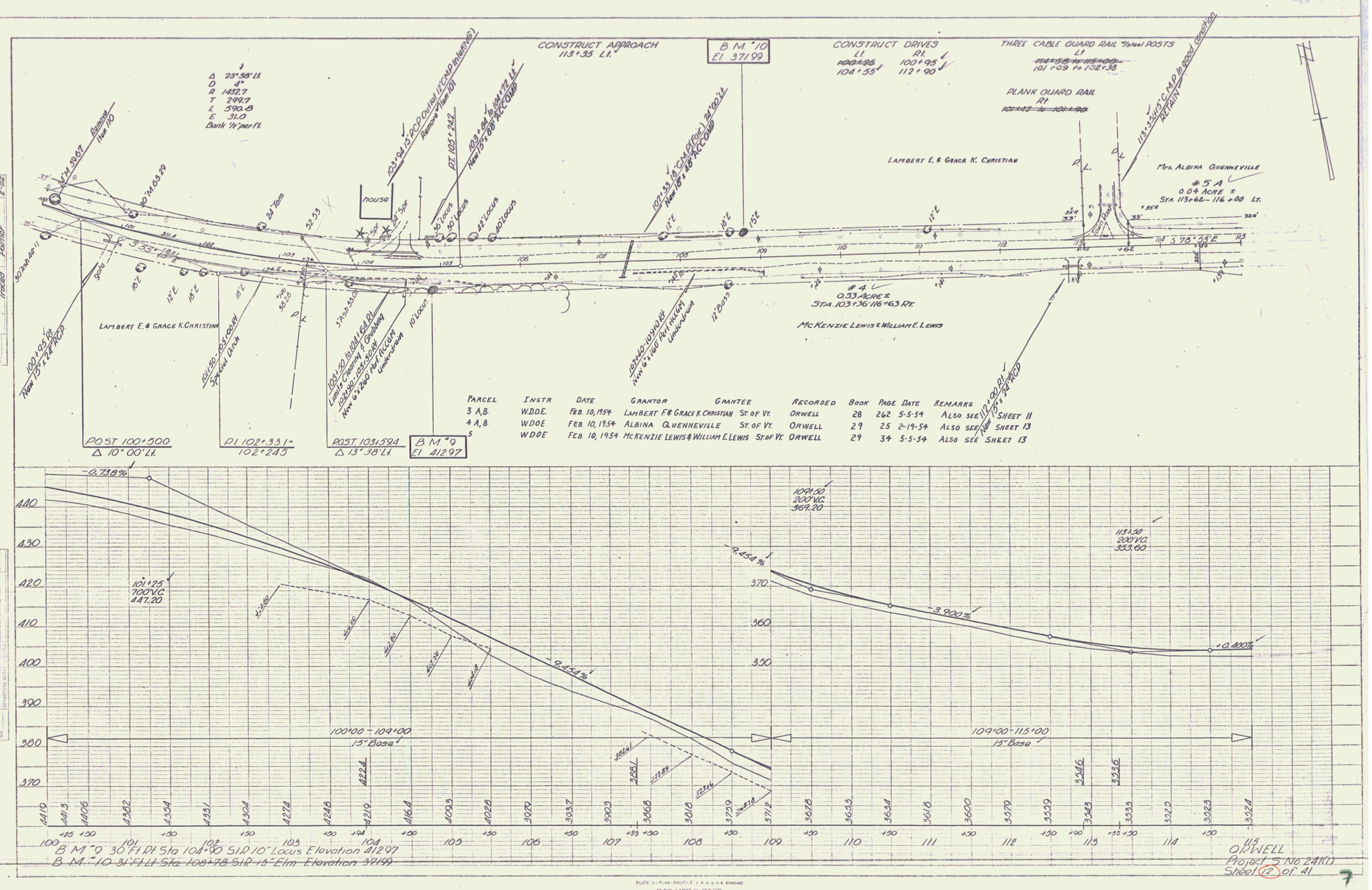


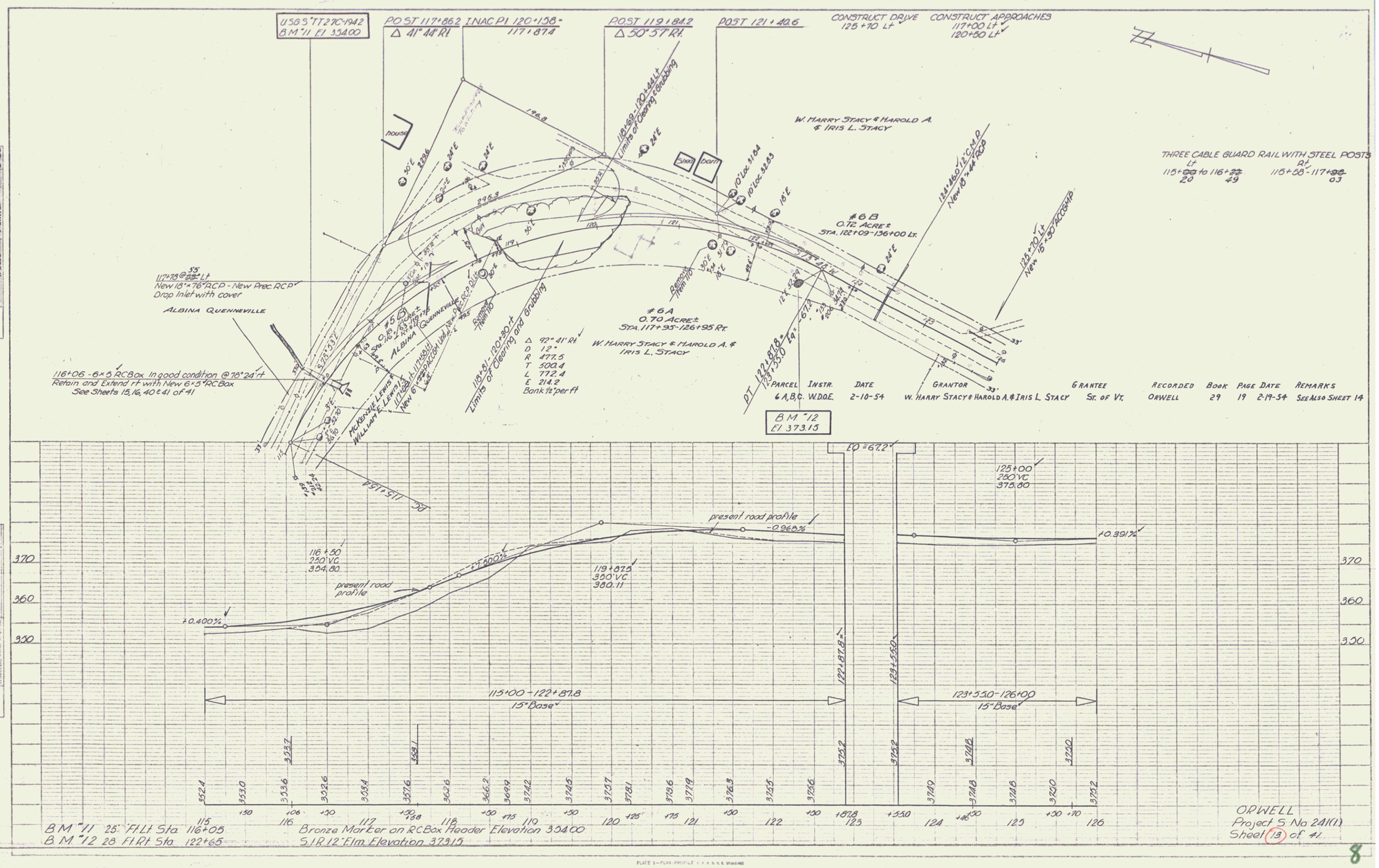
PLATE 1—PLAN-PROFILE U.P.R.&A.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK
P.S.E. Co. No. 248-1C

4


N
PI. 74+73.6
73+86.8
BM #2
Elev. 642.48
Clifford Aines
Carl E. & Gertrude A. Booska
Pasture
Ledge
Spring
High Shale Ledge
Hot Lead (Being Drilled)
BM #11
Elev. 644.88
BM #13
Elev. 517.27
Δ = 14° 07' Lt
D = 7°
R = 819.0
T = 101.4
L = 201.7
E = 6.3
Δ = 37° 41' Rt
D = 6°
R = 955.4
T = 326.1
L = 961.4
E = 135.8
P.C. 66+56.8
P.T. 68+17.6
P.C. 69+73.6
P.T. 70+35.0
P.C. 77+00.0
P.T. 67+17.2
67+16.1
15" C.M.P. - No Good
Sta. 85+71
24" Metal Pipe Poor Condition
(Penstock Material)
BM #12
Sta. 86+71
15" M
Elev. 481.9
Orwell
Route F-9 & F-10
SHEET 10A
5
PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
RIGHT OF WAY CHECKED
RT. OF WAY CHECKED
DATE
BY
PROFILE
NOTE BOOK
NO.
PLOTTED
DRAWN
STRUCTURE ROTATIONS CHCKD.
DATE
BY


THREE CABLE GUARD RAIL Wood POSTS
Lt
~~98+34 to 99+82~~
PI 88+611=
88+607
CONSTRUCT DRIVES
Lt
86+65
96+80
98+25
Rt
87+65
95+17
97+15
100+00
Δ 10°58' Lt
D 6°
R 953.4
T 91.7
L 182.8
E 4.4
Bank 1/2" per ft.
B.M. "8
El 449.08
LAMBERT F. & GRACE K. CHRISTIAN
CARL E. & GERTRUDE BOOSKA
86+50 Lt
20' Riley Pipe
85+71-92+08 Lt
Special Ditch
90+60 Lt-91+00 Rt
New 6'x 142' Part ACCOM
Underdrain
#3A
0.37 ACRE±
STA. 88+90-113+05 Lt
AC 93+58.3
PT 95+41.1
Remove
Item 110
97+55.5 12" CMP (Pair)
Remove
AC 99+88.4
Remove
Item 110
#3B
0.27 ACRE±
STA. 89+35-103+36 Rt
CARL E. & GERTRUDE BOOSKA
87+65 Rt
New 15"x 20' RCP
PC 88+98.8
Δ 6°41' Rt.
D 2°
R 2864.9
T 167.3
L 334.2
E 4.8
Bank 1/2" per ft.
B.M. "7
El 412.45
PT 90+280
91+08 Lt to 94+50 Rt
New 6'x 142' Part ACCOM
Underdrain
LAMBERT F. & GRACE K. CHRISTIAN
96+41 Rt
Design Special Ditch
Item 103-A
97+15 Rt
New 15"x 24' RCP
98+00 Rt
End Special Ditch
Item 103-A
100+00 Rt
New 15"x 28' RCP
PI 94+500=
94+494
-0.738%
+7.900%
-4.618%
86+75
950' VC.
388.80
94+75
350' VC.
452.00
86+00-100+00
15" Base
B.M. "7 30' Ft Rt Sta 89+37 S.I.R. 18" Maple Elevation 412.45
B.M. "8 20' Ft Lt Sta 95+33 S.I.R. 24" Elm. Elevation 449.08
ORWELL
Project S. No. 241(1)
Sheet 11 of 41
6
PLATE 1—PLAN-PROFILE U.P.R.R.A.R.E. STANDARD
NEUFELD & LESSER CO., NEW YORK.
K&E CO. NO. 348-1C


CONSTRUCT APPROACH
113+35 Lt.
B.M. #10
El. 371.99
CONSTRUCT DRIVES
Lt. 104+55
Rt. 100+95
112+90
THREE CABLE GUARD RAIL 7" steel POSTS
Lt. 101+09 to 102+38
PLANK GUARD RAIL
Rt.
Δ 23°38' Lt.
D 4°
R 1432.7
T 299.7
L 590.8
E 31.0
Bank 1/2" per ft.
house
LAMBERT E. & GRACE K. CHRISTIAN
Mrs. ALBINA QUENNEVILLE
#5A
0.04 ACRE ±
STA. 113+62 – 116+00 Lt.
#4
0.53 ACRE ±
STA. 103+36-116+63 Rt.
McKENZIE LEWIS & WILLIAM E. LEWIS
POST 100+500
Δ 10°00' Lt.
PI 102+331 =
102+245
POST 103+594
Δ 13°38' Lt.
B.M. #9
El. 412.97
PARCEL INSTR DATE GRANTOR GRANTEE RECORDED BOOK PAGE DATE REMARKS
3 A,B. W.D.O.E. FEB. 10, 1954 LAMBERT F. & GRACE K. CHRISTIAN ST. OF VT. ORWELL 28 262 5-5-54 ALSO SEE SHEET 11
4 A,B. W.D.O.E. FEB. 10, 1954 ALBINA QUENNEVILLE ST. OF VT. ORWELL 29 25 2-19-54 ALSO SEE SHEET 13
5 W.D.O.E. FEB. 10, 1954 McKENZIE LEWIS & WILLIAM E. LEWIS ST. OF VT. ORWELL 29 34 5-5-54 ALSO SEE SHEET 13
-0.738%
-9.454%
-3.900%
+0.400%
100+00 – 109+00
15" Base
109+00 – 115+00
15" Base
B.M. #9 30" Ft. Rt. Sta. 104+00 S.I.P. 10" Locus Elevation 412.97
B.M. #10 31" Ft. Lt. Sta. 108+78 S.I.P. 15" Elm Elevation 371.99
ORWELL
Project S NO. 24(1)
Sheet 12 of 41
7



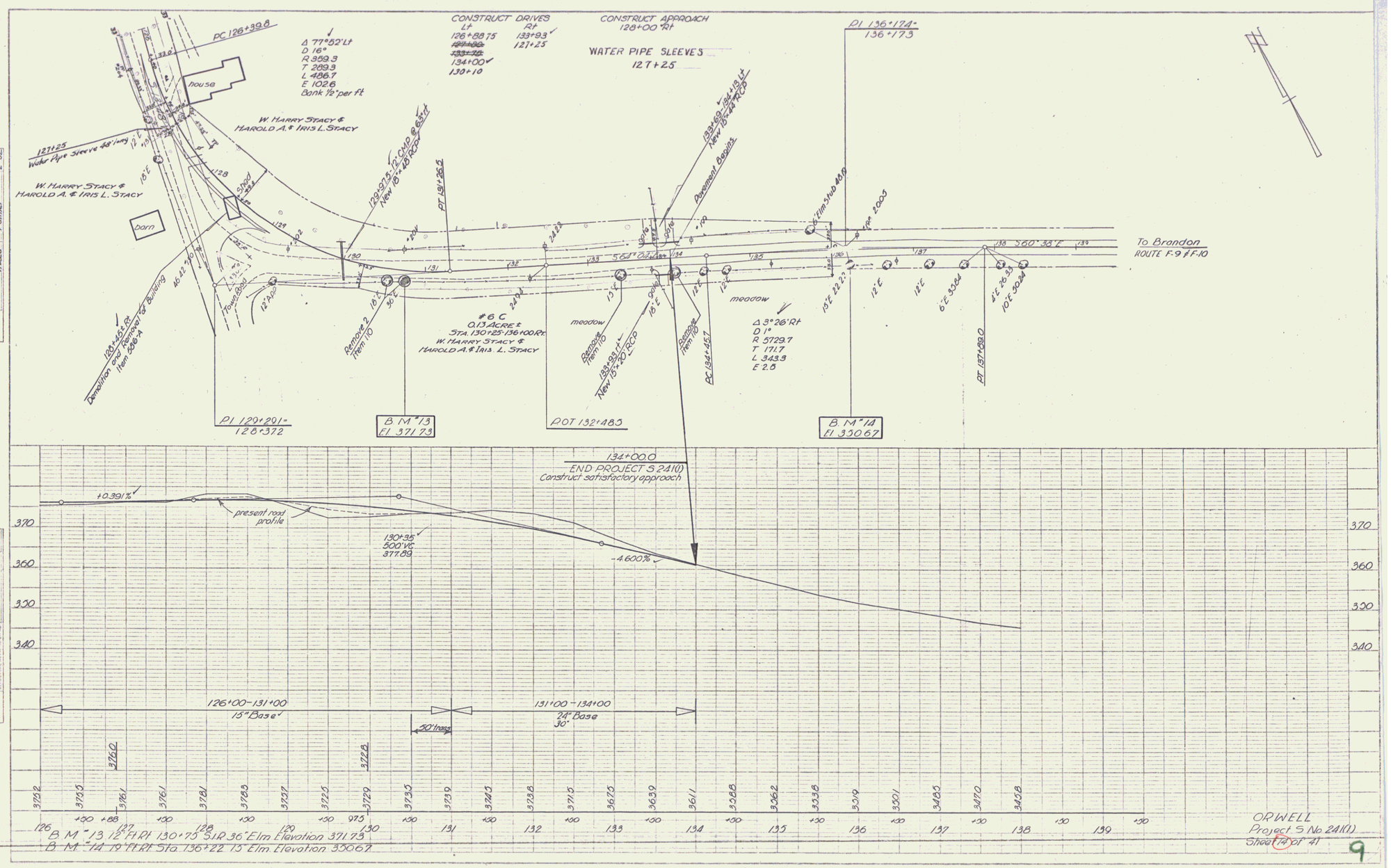
Parcel	Instr.	Date	Grantor	Grantee	Recorded	Book	Page	Date	Remarks
6 A, B, C.	W.D.O.E.	2-10-54	W. Harry Stacy & Harold A. & Iris L. Stacy	St. of Vt.	Orwell	29	19	2-19-54	See Also Sheet 14

PLAN	
Computed	A. Levin
Plotted	Palmer
Checked	Palmer
Date	12-31 2-52
Scale	1" = 20'

PROFILE	
Computed	A. Levin
Plotted	Palmer
Checked	Palmer
Date	12-31 2-52
Scale	1" = 20'

PLATE 3—PLAN-PROFILE C.P.R.R.R. STANDARD
KEUFFEL & ESSER CO. NEW YORK.
K & E Co. No. 346-12 SERIES

8


PC 126+39.8
Δ 77°52' Lt
D 16°
R 359.3
T 289.3
L 486.7
E 102.6
Bank ½" per ft
house
W. HARRY STACY &
HAROLD A. & IRIS L. STACY
127+25
Water Pipe Sleeve 48' long
W. HARRY STACY &
HAROLD A. & IRIS L. STACY
barn
shed
128+65 Rt
Demolition and Removal of Building
Item 206-A
Town Road
12" Appr
129+275 12" CMP @ 63' rt
New 18" x 28' RCP
PT 131+26.5
Remove 2
Item 110
#6 C
0.13 ACRE ±
STA. 130+25-136+00 Rt.
W. HARRY STACY &
HAROLD A. & IRIS L. STACY
meadow
Remove
Item 110
133+93 Rt
New 15" x 20' RCP
Remove
Item 110
PC 134+45.7
Pavement Begins
133+69 - 134+13 Lt
New 18" x 44' RCP
meadow
Δ 3°26' Rt
D 1°
R 5729.7
T 171.7
L 343.3
E 2.5
PI 136+17.4 =
136+17.3
6" Elm Stub 48.0
18" 200.5
To Brandon
ROUTE F-9 & F-10
PT 137+89.0
PI 129+29.1 =
128+37.2
B.M. #13
El 371.73
POT 132+48.5
B.M. #14
El 350.67
134+00.0
END PROJECT S 241(1)
Construct satisfactory approach
+0.391%
present road profile
130+35
500' VC
377.89
-4.600%
126+00-131+00
15" Base
131+00-134+00
24" Base
30"
30' trans
B.M. #13 12" F.H.R. 130+75 3" I.P. 36" Elm Elevation 371.73
B.M. #14 19" F.H.R. Sta. 136+22 15" Elm Elevation 350.67
ORWELL
Project S No 241(1)
Sheet 14 of 41
9