

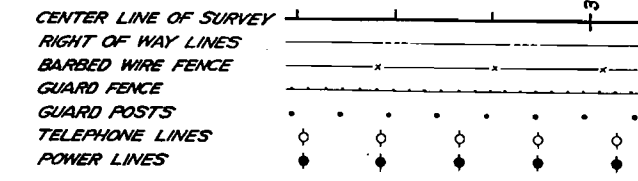
FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	151-H(1)	1	

REV. 9-10-41 INDEX & LENGTH REL
REV. 1-3-46 Index & Design Data -J.E.H.

COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 151-H(1) STATE HIGHWAY NO. 2 GRAND COUNTY

CONVENTIONAL SIGNS



DESIGN DATA	
Maximum Degree of Curve	13°00'
Maximum Grade	6.024%
Minimum N.P.S.D. - horizontal	3100 Ft.
Minimum N.P.S.D. - vertical	3800 Ft.
Maximum Design Speed	40 M.P.H.

INDEX OF SHEETS

- NO. 1 SKETCH MAP AND TITLE PAGE
- 2 TYPICAL CROSS SECTION
- 3 SUMMARY OF QUANTITIES, SURFACING AND SELECT MATERIAL
- 4 & 5 LIST OF STRUCTURES, R.O.W. MARKERS, GUARD FENCE, GUARD POSTS, & FENCING.
- 6 SPECIAL DETAILS
- 7 & 8 LAYOUT AND DETAILS FOR 120" MULTIPLE PLATE CULVERT, STA. 523+.
- 9 DETAILS OF SPECIAL 6'x8' C.B.C., STA. 539+ (REV OF M103E)
- 10 DETAILS OF SPECIAL 5'x7' C.B.C., STA. 600+ (REV OF M104E)
- 11 DETAILS OF SPECIAL DOUBLE 10'x10' C.B.C., STA. 634+ (REV OF M110B)
- 12 STANDARD HEADWALLS FOR C.M.P. CULVERTS M 102 G
- 13 " TIMBER GUARD POSTS M 19 B
- 14 " WIRE CABLE GUARD FENCE M 20 B
- 15 " WIRE FENCES (TREATED WOODEN POSTS) M 24 G
- 16 " STRUCTURE NUMBER LETTERING M 10 A
- 17 " YEAR NUMBER MARKING M 14 A
- 18 " METHODS FOR SUPERELEVATION AND WIDENING OF CURVES M 1 B
- 19 STANDARD SIDE APPROACH ROADS M 2 C
- 19a STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS M 2 D
- 20 STANDARD MARKER POST M 7 B
- 20a CONTOUR INTERCEPTING AND DRAINAGE DITCHES M 107 B
- 21 TO 28 PLAN AND PROFILE
- 29 TO 116 CROSS SECTIONS (ROADWAY)
- 77 TO 123 " (ROAD APPROACH, STA. 525+)
- 4 TO 136 " (ROAD APPROACH, STA. 554+)
- 7 TO 144 " (WINTER PARK APPROACH)
- 145 SUMMARY OF EARTHWORK QUANTITIES

SCALES ON ORIGINAL TRACINGS

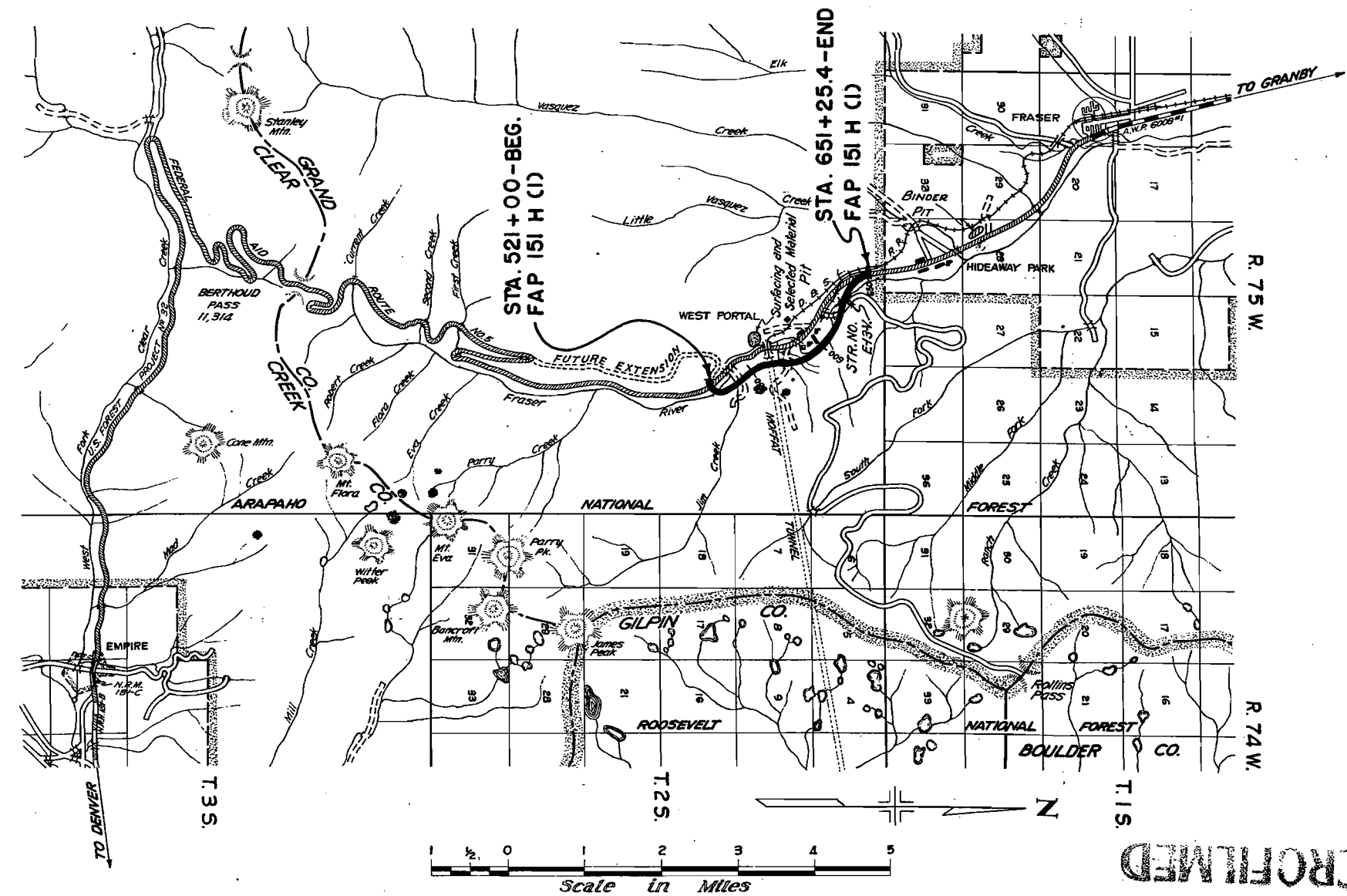
ON PLAN, 1 IN. = 100 FT.
ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT } 13,067.9 FT. = 2.474 MI.
NET LENGTH OF PROJECT }

LENGTH OF PROJECT

CONST. DIVISION NO. 1 & 2

STATIONS	24' ROADWAY	26' ROADWAY	DBLE. 10'x10' C.B.C. STA. 634+ •
0+00 BEGIN F.A.P. 151-H(1)	1235.1 FT.		
+35.1 BACK = +95.4 AHEAD	104.6 FT.		
1+00 END 24' RDWAY BEGIN 26' RDWAY		5392.8 FT.	
+192.8 BACK = +190.0 AHEAD		4696.7 FT.	
+186.7 CIAL DBLE. 10'x10' C.B.C. STR. NO. E-13-V			26.6 FT.
+13.3		1612.1 FT.	
+25.4 BK. END F.A.P. 151-H(1) +00 AH. P.R.A. LINE			
TOTALS	1339.7 FT. (0.253 MI.)	11701.6 FT. (2.216 MI.)	26.6 FT. (0.005 MI.)
PROJECT TOTAL	13067.9 FEET = 2.474 MILES		



NOTE
It is recommended that bidders on this Project go over the plan details with one of the following field representatives of this department:
E.E. Montgomery Division Engineer Denver, Colo.
F.W. Miller Resident Engineer Denver, Colo.

RECOMMENDED FOR APPROVAL

ASSISTANT ENGINEER	DATE
--------------------	------

APPROVED

<i>[Signature]</i>	DATE
STATE HIGHWAY ENGINEER	1-12-46

RECOMMENDED FOR APPROVAL

<i>[Signature]</i>	DATE
DISTRICT ENGINEER	
PUBLIC ROADS ADMINISTRATION	
FEDERAL WORKS AGENCY	

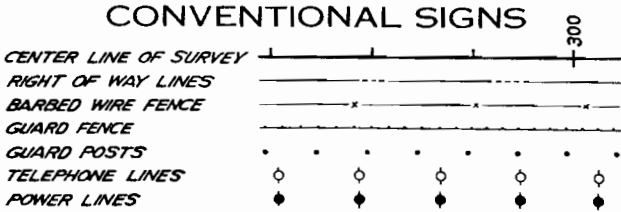
JAN 28 1946

APPROVED	DATE
<i>[Signature]</i>	
B. W. MATTHESON Division Engineer	
PUBLIC ROADS ADMINISTRATION	
FEDERAL WORKS AGENCY	

RECEIVED FEB 13 1946

RIGHT OF WAY
COLORADO
STATE HIGHWAY DEPARTMENT
PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. 151-H(1)
STATE HIGHWAY NO. 2
GRAND COUNTY ✓

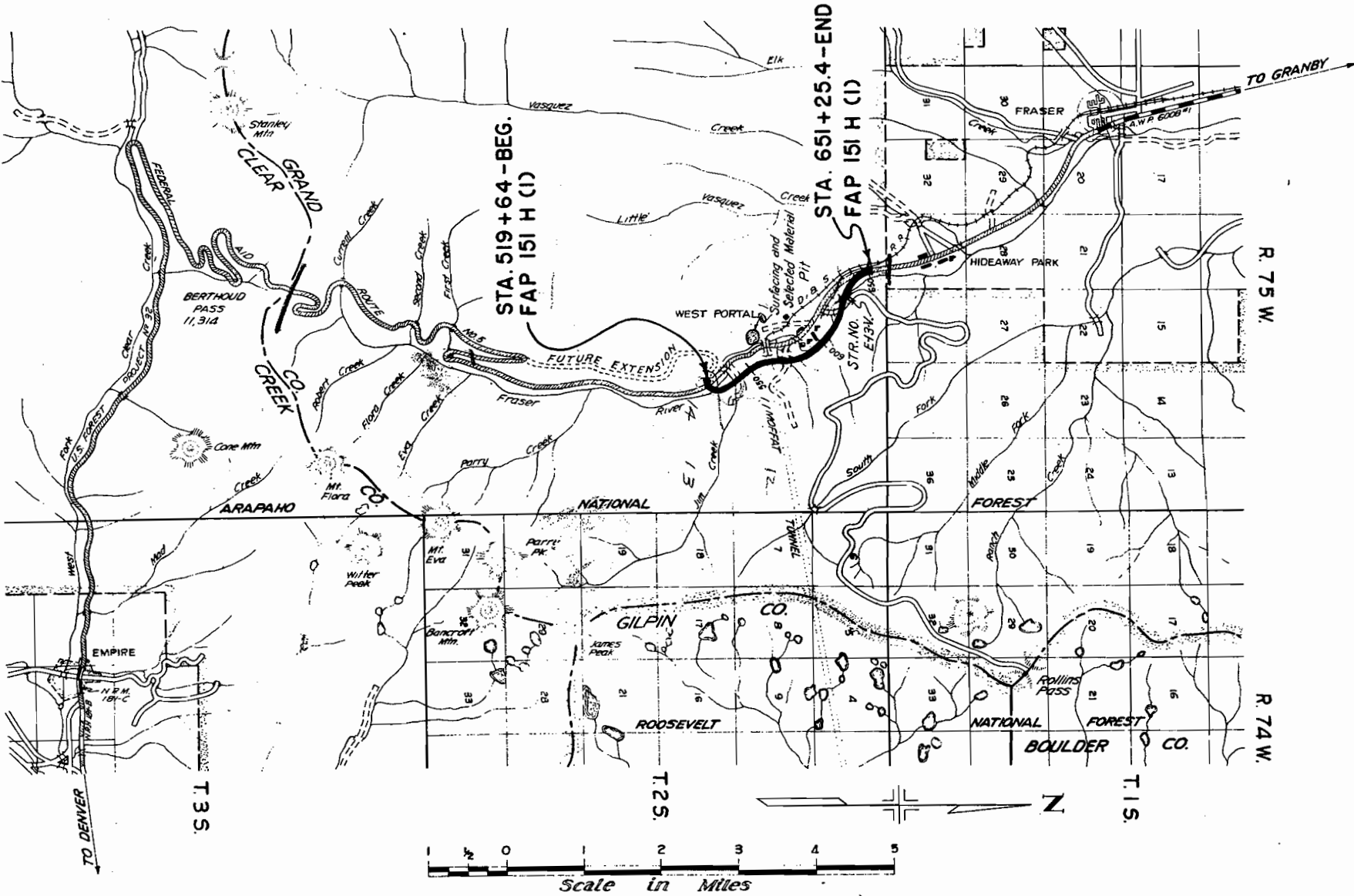
FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	151-H(1)	1	



INFORMATION OBTAINED FROM AVAILABLE COUNTY RECORDS
SCALES ON ORIGINAL TRACINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT } 13,203.9 FT. = 2.500 MI.
NET LENGTH OF PROJECT }

LENGTH OF PROJECT
CONST. DIVISION NO. 1 & 2

STATIONS	24' ROADWAY	26' ROADWAY	DBLE. 10' X 10' C.B.C. STA. 634+
BEGIN F.A.P. 151-H(1)	1371.1 FT.		
1' BACK = 1' AHEAD	104.6 FT.		
END 24' RDWAY BEGIN 26' RDWAY		5392.8 FT.	
8' BACK = 0' AHEAD		4696.7 FT.	
DBLE. 10' X 10' C.B.C. P. NO. E-13-V		1612.1 FT.	26.6 FT.
1' BK. END F.A.P. 151-H(1) A.H. P.R.A. LINE			
PROJECT TOTAL	1475.7 FT. (0.279 MI.)	11701.6 FT. (2.216 MI.)	26.6 FT. (0.005 MI.)



NOTE
It is recommended that bidders on this Project go over the plan details with one of the following field representatives of this department:
E.E. Montgomery Division Engineer Denver, Colo.
F.W. Miller Resident Engineer Denver, Colo.

RECOMMENDED FOR APPROVAL

ASSISTANT ENGINEER DATE 7-26-41

APPROVED

STATE HIGHWAY ENGINEER DATE

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER PUBLIC ROADS ADMINISTRATION FEDERAL WORKS AGENCY

RECOMMENDED FOR APPROVAL

CHIEF, WESTERN REGION PUBLIC ROADS ADMINISTRATION FEDERAL WORKS AGENCY

APPROVED

COMMISSIONER PUBLIC ROADS ADMINISTRATION FEDERAL WORKS AGENCY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	151-H(1)	2	

RIGHT OF WAY
TO BE ACQUIRED FROM

EVALYN EVANS
BY
GRAND COUNTY
FOR
WINTER PARK, COLORADO

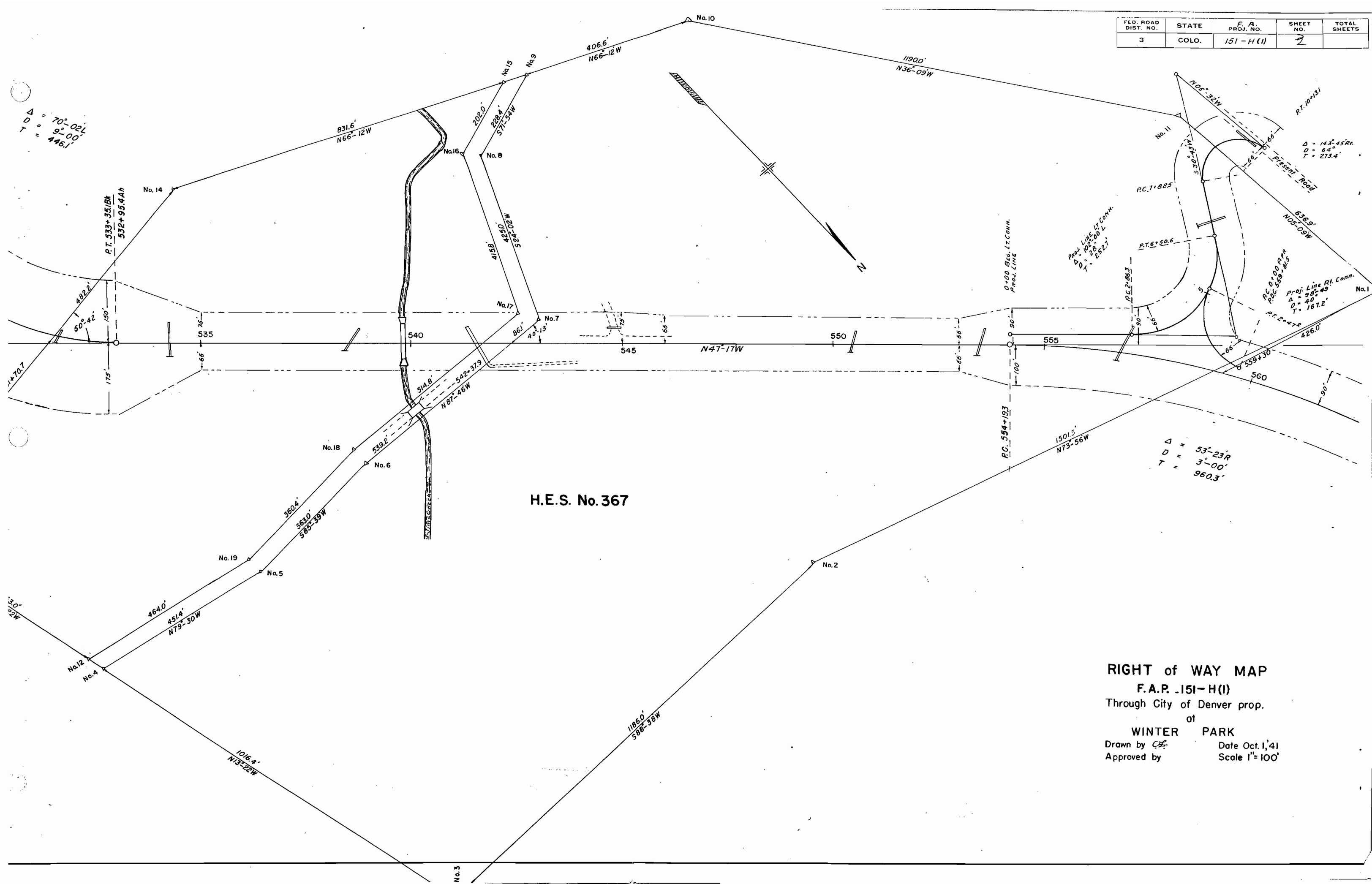
FAP 151-H (1) STATE HIGHWAY NO. 2

DESCRIPTION NO. 1

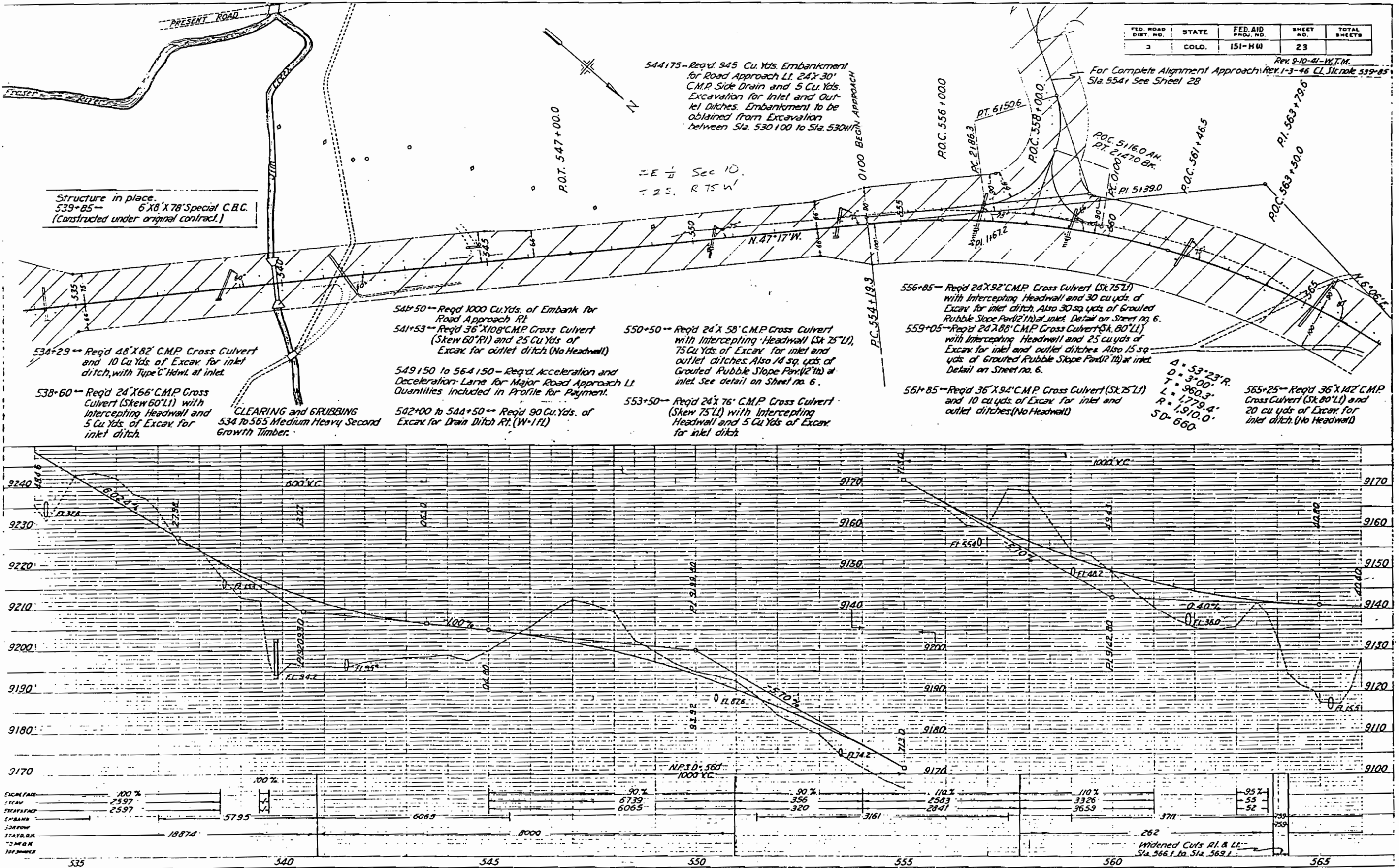
A tract or parcel of land containing 0.10 acres, more or less,
in SE $\frac{1}{4}$ Section 3, Township 2 South, Range 75 West of the Sixth
Principal Meridian, in Grand County, Colorado, and said tract or
parcel is more particularly described as follows:
Beginning at corner No. 2 of Homestead Entry Survey No. 117, in
the Southeast quarter of Section 3, Township 2 South, Range 75
West;

1. Thence S 03°00' E. a distance of 112.1 feet;
2. Thence N 37° 15' W. a distance of 140.7 feet;
3. Thence East a distance of 79.3 feet, more or less, to the
point of beginning.

FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	151-H(1)	2	



ATTENTION: Right of Way Section

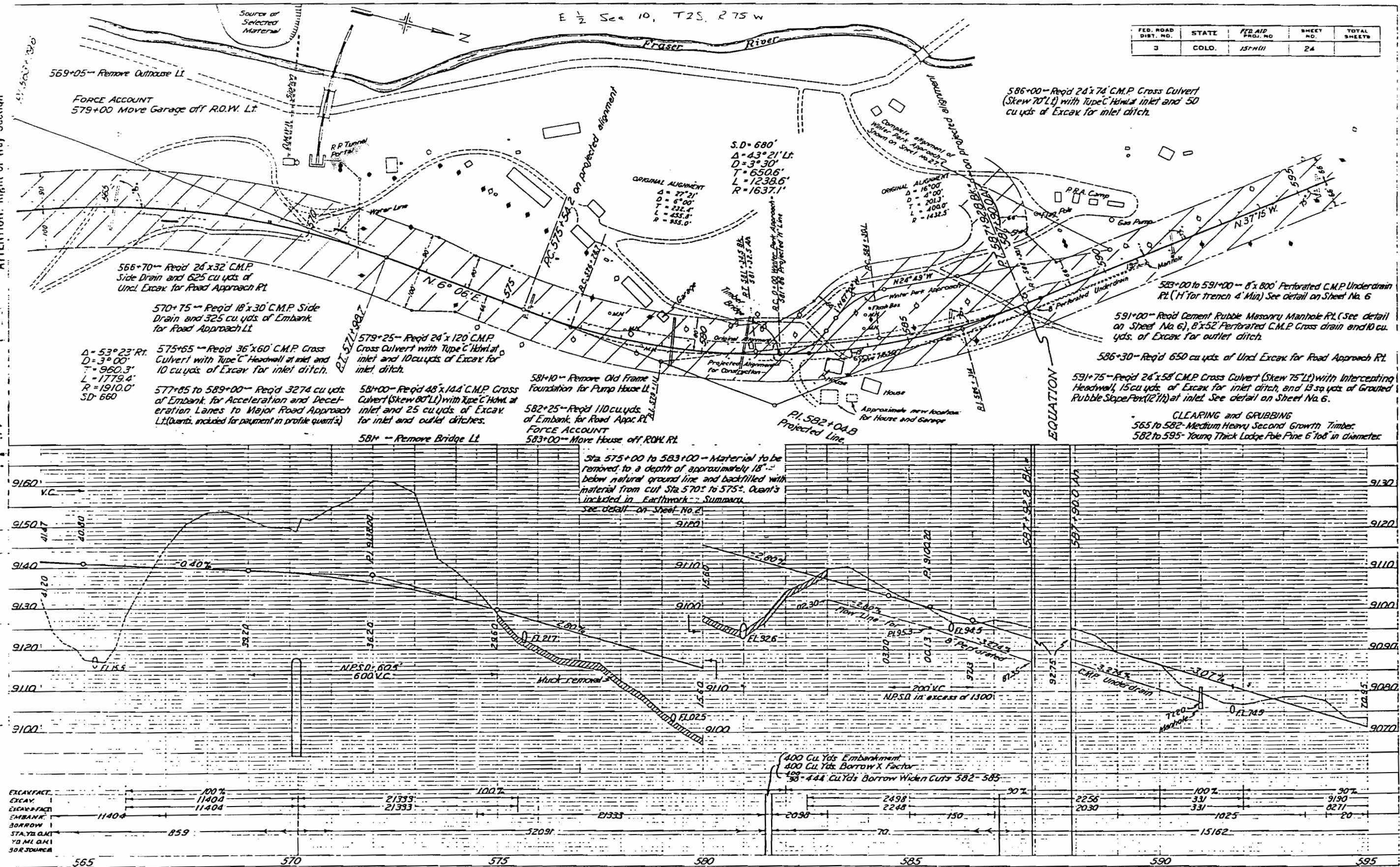


AFTER RECORDING PLEASE RETURN TO:

The Department of Highways of the State of Colorado
Highway Office Building
4201 East Arkansas Avenue
Denver, Colorado 80222

ATTENTION: Right of Way Section

150000



AFTER RECORDING PLEASE MAIL TO:

The Department of Highways of the State of Colorado
Highway Office Building
4201 East Arkansas Avenue
Denver, Colorado 80222

ATTENTION: Right of Way Section

Structure in place.
599+50 - 5x7x10' Special Concrete
Box Culvert. (Constructed under original
contract.)

602+25 - Req'd 24'x98' C.M.P. Cross Culvert
(Skew 60° L) with Type C Headwall at inlet
and 10 cu yds. of Excav. for inlet ditch

615+85 - Req'd 24'x30' C.M.P. side
drain and 100 Cu Yds. of Und. Excav.
for Road Approach Rt.

E 1/2 Sec 10
T 2 S. R 75 W

SAW MILL

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	151-H(1)	25	

REV. 1-3-46 CL. SEE NOTE
599-50

P.O.T. 626 + 17.9

P.O.T. 623 + 42.9

P.O.T. 620 + 70.9

$\Delta = 16^{\circ}10' L$
 $D = 3^{\circ}00'$
 $T = 271.3'$
 $L = 538.9'$
 $R = 1,910.0'$
 $SD = 750'$

P.O.T. 613 + 00.0
P.C. 613 + 59.6

P.O.T. 611 + 07.2

P.O.T. 609 + 16.2

P.O.T. 604 + 38.7

$\Delta = 16^{\circ}17' L$
 $D = 3^{\circ}00'$
 $T = 273.2'$
 $L = 542.8'$
 $R = 1,910.0'$
 $SD = 840'$

P.C. 592 + 28.0

P.O.T. 593 + 50.0

595+50 - Req'd 24'x48' C.M.P.
Cross Culvert (Skew 75° L) with
Intercepting Headwall and 100 cu
yds. of Excav. for inlet and outlet
ditches. Also 33 sq yds. of Grouted
Rubble Slope Pav. (2" thick) at inlet.
See detail on Sheet No. 6.

P.O.T. 598 + 00.0

P.I. 600 + 02.2

609+25 - Req'd 36'x54' C.M.P. Cross Culvert
with Intercepting Headwall (Skew 75° L)
and 50 cu yds. of Excav. for inlet ditch.
Also 24 sq yds. of Grouted Rubble Slope
Pav. (2" thick) at inlet. See detail on Sheet No. 6.

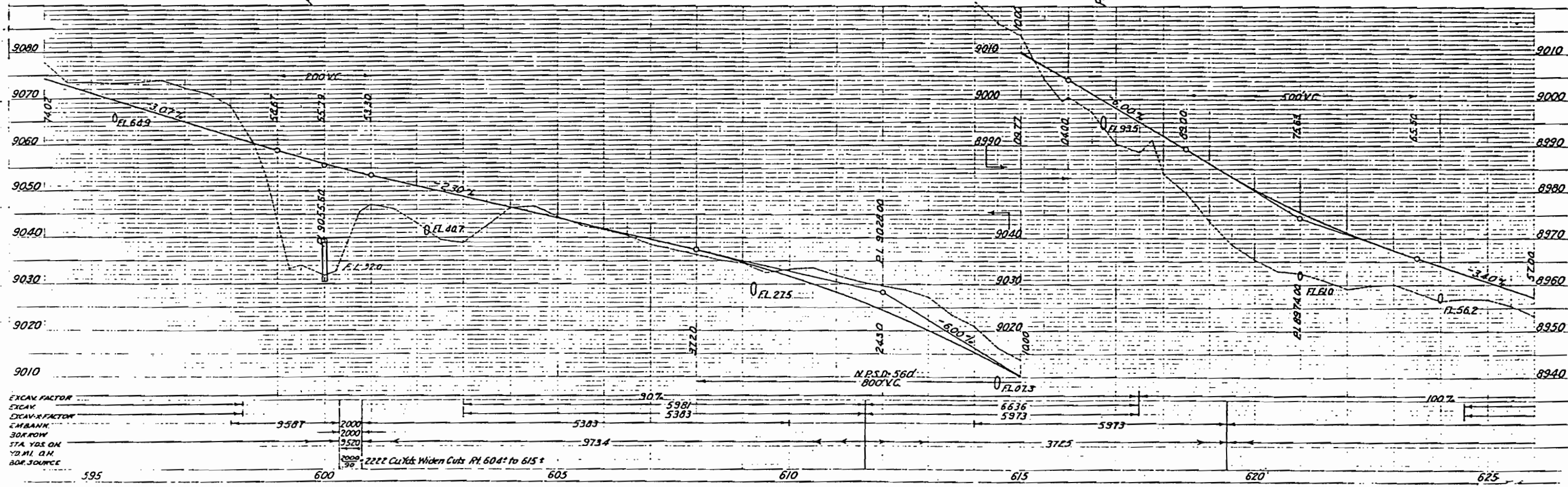
614+50 - Req'd 36'x52' C.M.P. Cross Culvert
(Skew 70° L) with Intercepting Headwall and 50
cu yds. of Excav. for inlet ditch. Also 31 sq
yds. of Grouted Rubble Slope Pav. (2" thick) at
inlet. See detail on Sheet No. 6.

616+75 - Req'd 36'x102' C.M.P. Cross
Culvert (Skew 75° L) with Intercepting
Headwall and 100 cu yds. of Excav. for
inlet ditch. Also 18 sq yds. of Grouted
Rubble Slope Pav. (2" thick) at inlet. See
detail on Sheet No. 6.

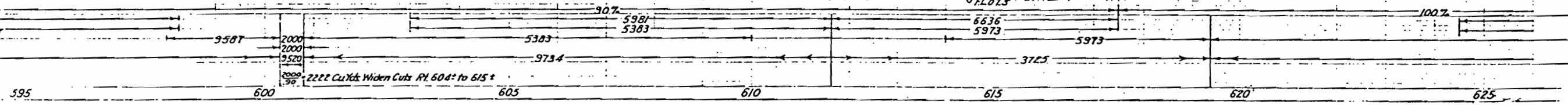
P.I. 616 + 30.9

617+50 - Req'd 1800 cu yds. of Embank.
for Road Approaches Rt. and Lt. and 24'x30'
C.M.P. Side Drain Rt.

CLEARING and GRUBBING
595 to 625 - Thick Young Lodge Pole Pines 6" to 8" Diameter.

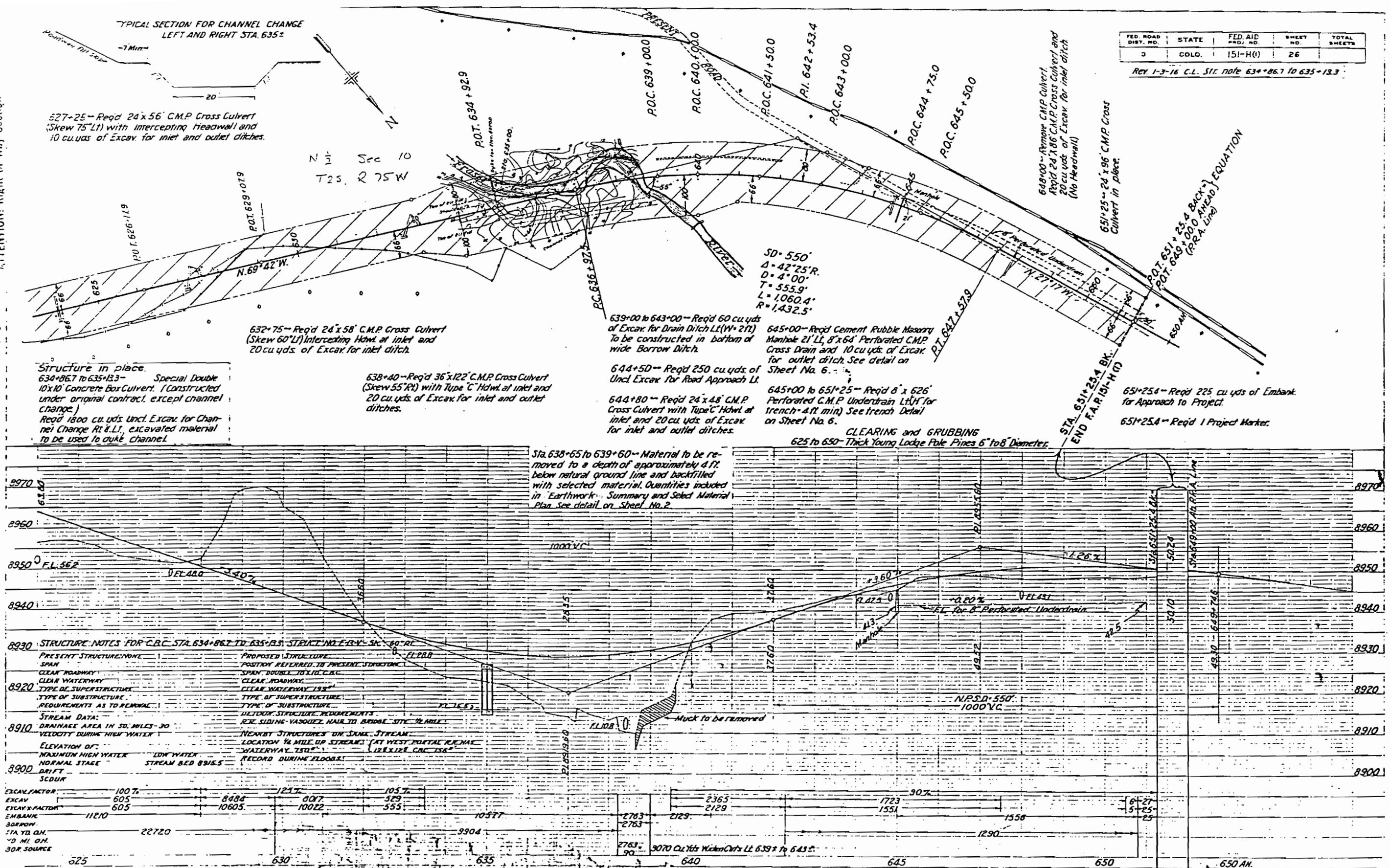


EXCAV. FACTOR
EXCAV. FACTOR
EMBANK.
30% ROW
STA. YDS. ON
20 MI. O.M.
BOR. SOURCE



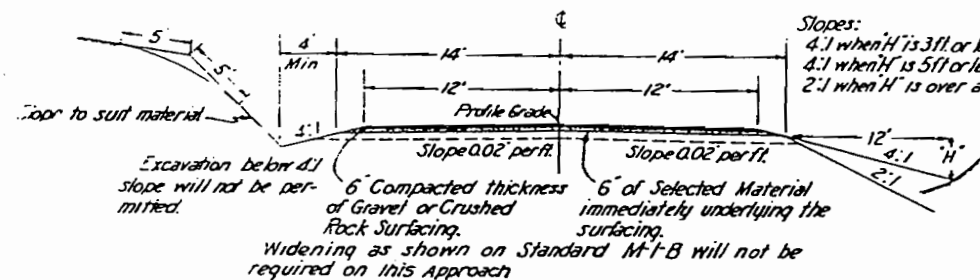
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	151-H(1)	26	

REV. 1-3-16 C.L. STR. note 634+86.7 to 635+13.3



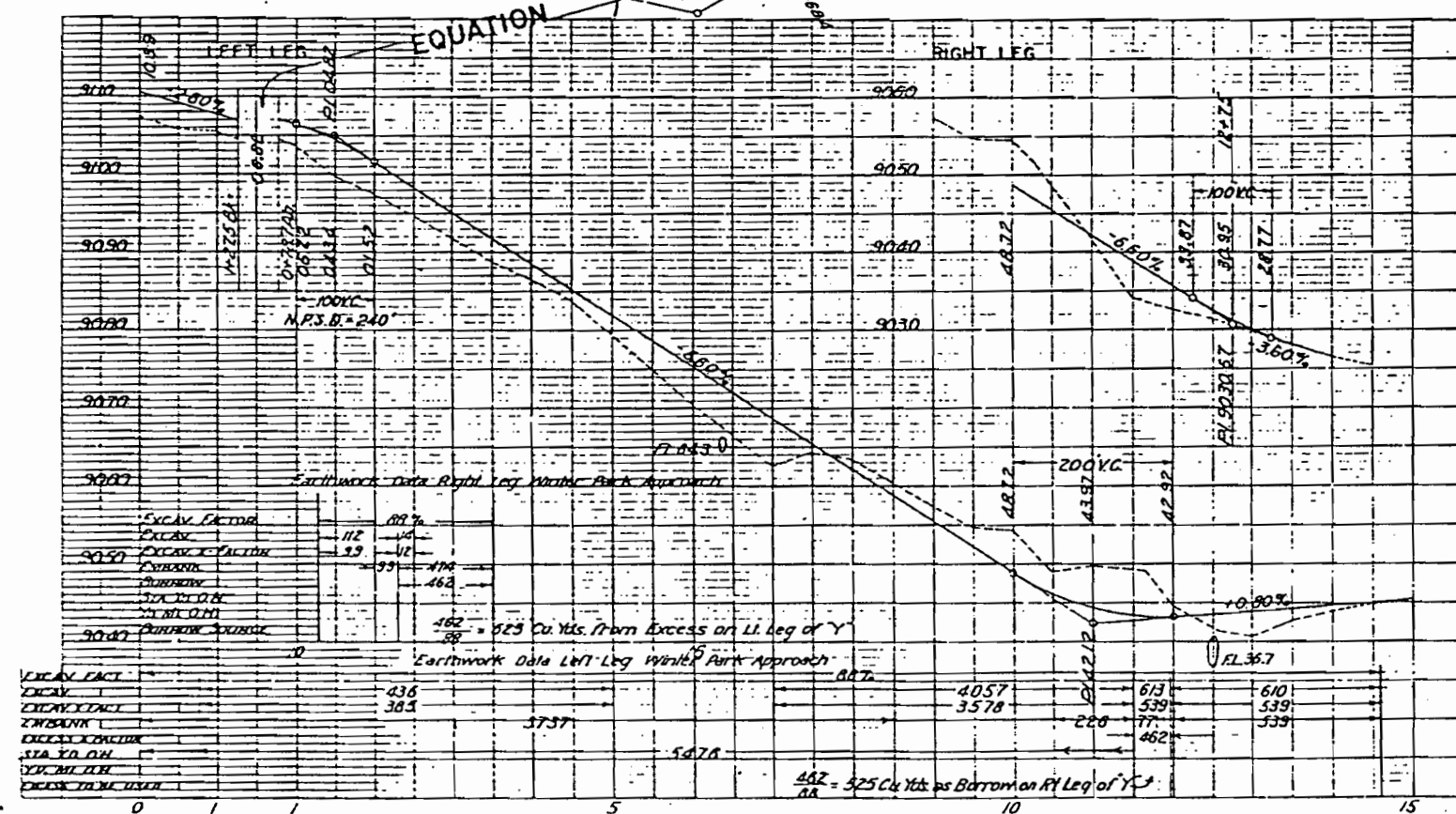
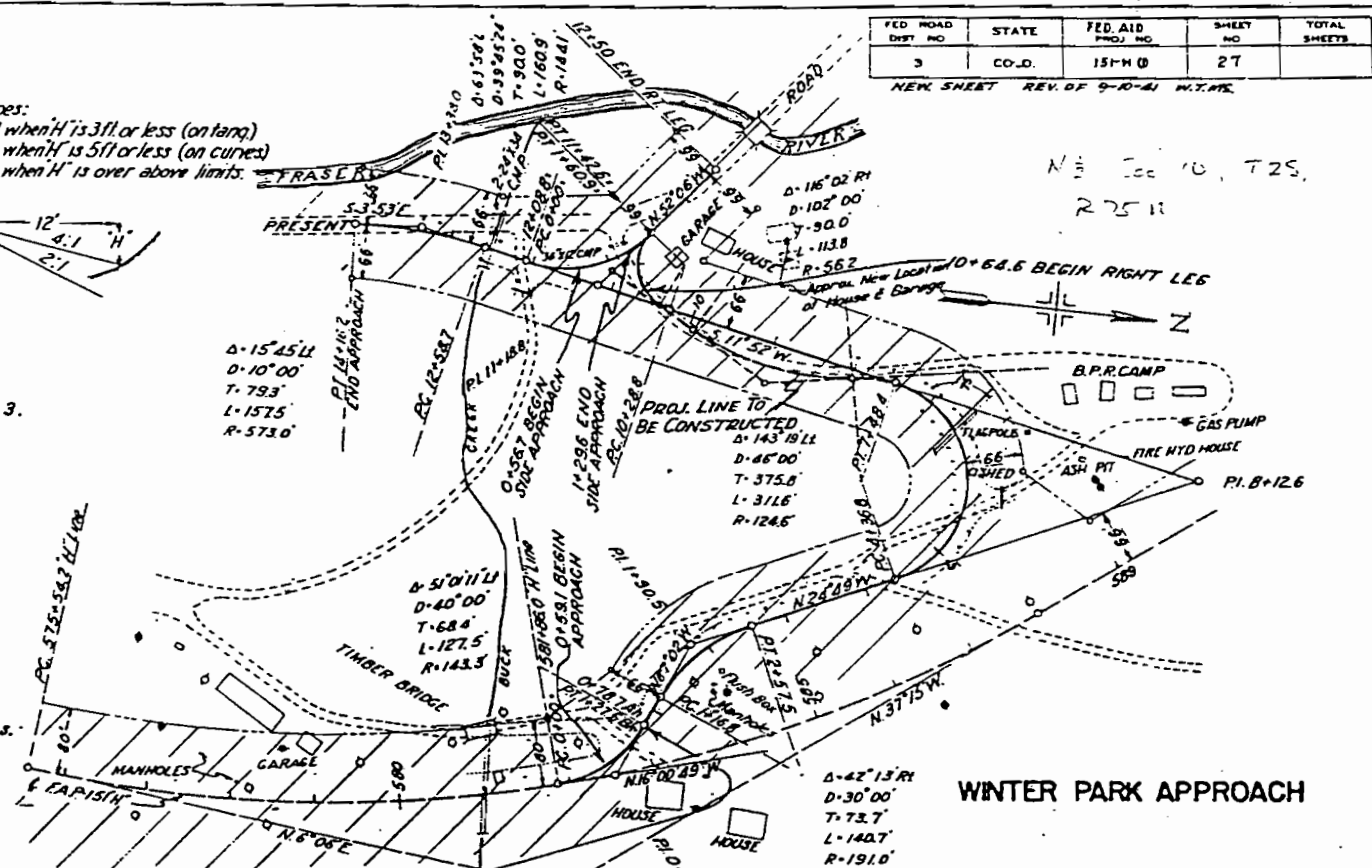
STATION	625	630	635	640	645	650
EXCAV. FACTOR	100%	100%	100%	100%	100%	100%
EXCAV. FACTOR	605	605	605	605	605	605
EMBANK	11210	10605	10022	555	10577	2763
STA. TO CH. 10 MI. CH. 30R SOURCE	22720	9904	2763	2763	2129	1723

TYPICAL SECTION



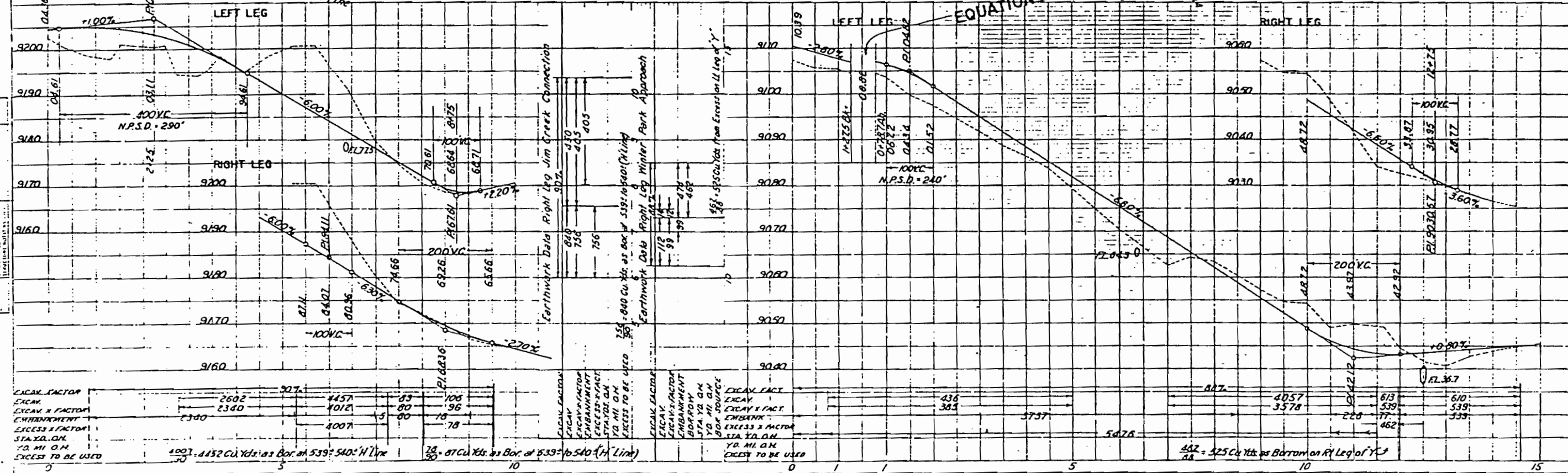
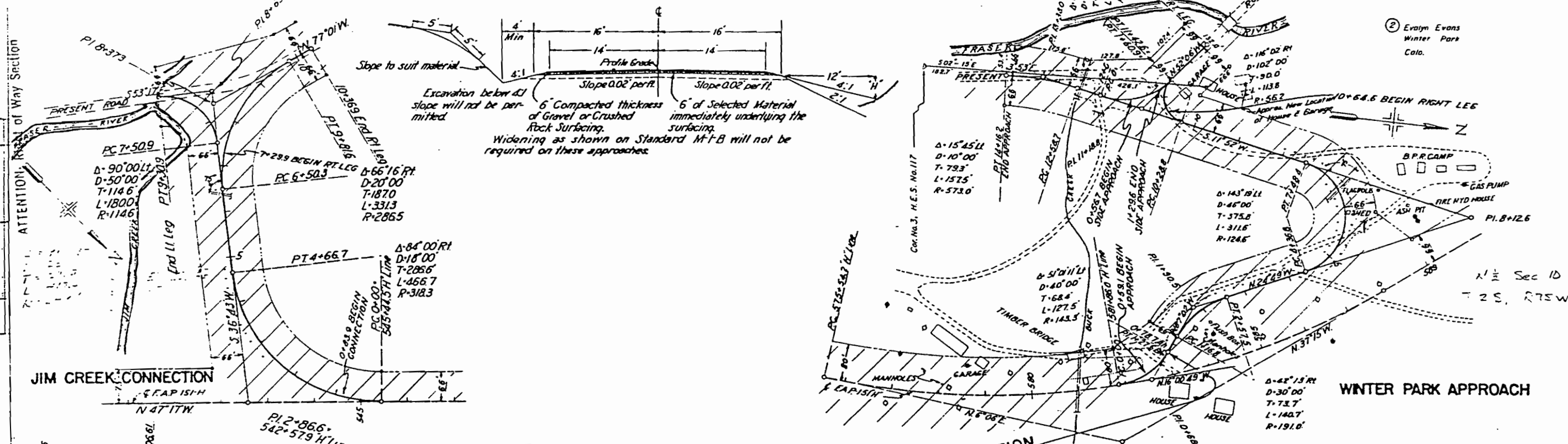
See Surfacing and Selected Material Notes on Sheet No. 3.

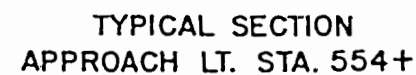
Winter Park Approach Requirements.
1+27.5Bk ~ Reqd 1150 cu yds. Embank. for Road Approach Lt.
5+50 ~ Reqd 18'x30' C.M.P. Side Drain, and 60 cu yds Embank
for Road Approach Rt.
6+00 ~ Remove Shed on Rt.
6+40 ~ Relay 24'x68' C.M.P. Gross Culvert (Skew 75° Rt.) (from
Sta. 12+50) with Type C' Headwall at inlet, and 15 cu yds. Excav.
for inlet ditch.
11+00 ~ Remove 36'x12' C.M.P. Rt.
12+00 ~ Reqd 24'x30' C.M.P. Side Drain, and 1300 cu yds. Uncl.
Excav. for Road Approach Lt.
12+00.0 ~ Reqd Side Approach Rt. Quantities included in
Cross Sections.
12+50 ~ Reqd 48'x62' C.M.P. Gross Culvert with Type C' Head-
wall at inlet, and 90 cu yds. of Excav. for inlet and outlet ditches.
12+50 ~ Remove 2-24'x34' C.M.P. Culverts and Relay at 6+40.
11+40 Rt. Leq'Y ~ Move Garage of R.Q.W. Rt. (FORCE ACCOUNT)
11+90 Rt. Leq'Y ~ Move House of R.Q.W. Rt. (FORCE ACCOUNT)



TYPICAL SECTION FOR JIM CREEK & WINTER PARK APPROACHES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	CO.	157-H	27A	





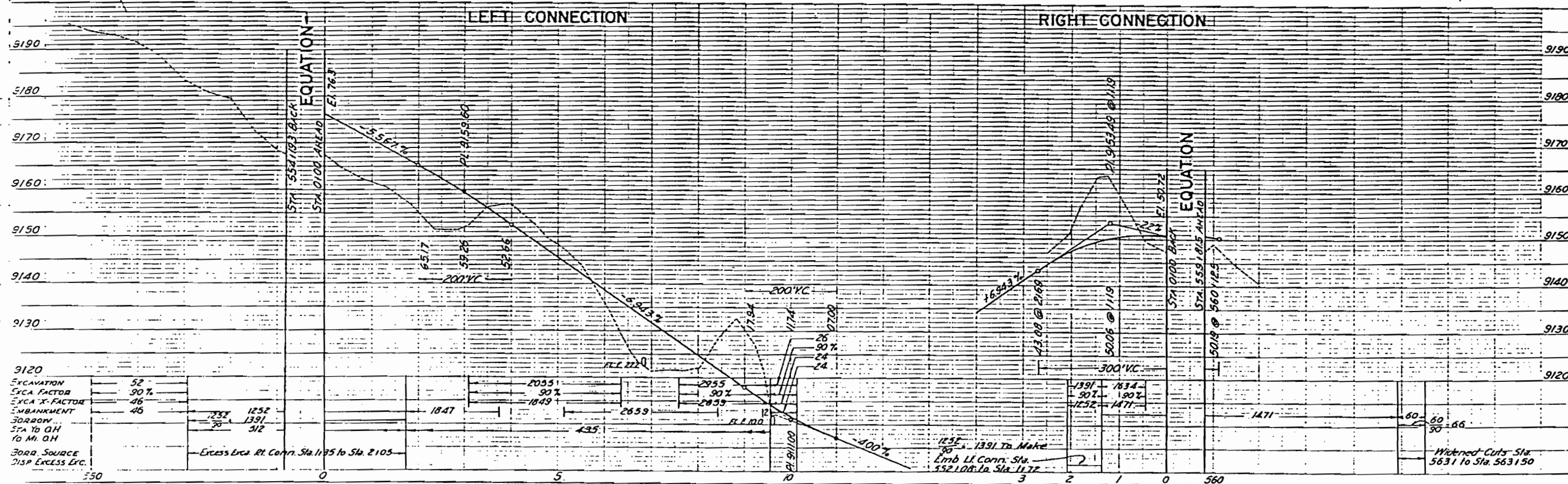
NEW SHEET - REV. OF 9-10-61
Rev. 9-30-61 - End Sm. Rt. Contr. - A.Z.

Diagram illustrating a road cross-section with various slopes and materials. The diagram shows a 5' wide shoulder on the left, a 4' wide base, and a 12' wide base. Slopes are indicated as 4:1, 2:1, and 1:1. Materials include compacted gravel, crushed rock, and selected material. A note states: "Excavation below 4:1 slope will not be permitted". Another note states: "Widening as shown on Standard M-1-B will not be required on this approach".

See Surfacing and Selected Material Notes on Sheet No. 3 .

6185 - Req'd 24' x 74' C.M.P. Cross Culv
Skew 80° Type T-Cement Rubble
Masonry Headwall and 5cu yds
Excavation for Outlet Ditch

3160-Req'd 24"x60" C.M.P. Cross Culv. (No Headwall)
and 15 cu. yds. Excavation for
Inlet and Outlet Ditches.



Structure in place
539+50 ~ 5'x7'x10' Special Concrete
Box Culvert (Constructed under original
contract)

602+25 ~ Reg'd 24"x93" CMP Cross Culvert
(Skew 60° Lt) with Type C Headwall at inlet
and 10 cu. yds. of Excav for inlet ditch

and 100 cu. yds. of Excav
for Road Approach Rt

SAW MILL

REG. A.D.
151-H-0

25'
SE. 1-1-46 CL 3rd D.
R. 13-450

624+00 ~ Reg'd 24"x64" CMP Cross Culvert
with Type C Headwall at inlet and
10 cu. yds. of Excav for inlet ditch

P.C.T. 623+42.9

P.O.T. 626+17.9

$\Delta = 16^\circ 10' L$
 $D = 3^\circ 00'$
 $T = 271.3'$
 $L = 538.9'$
 $R = 1,910.0'$
 $SD = 750'$

P.T. 618+98.5

P.O.T. 620+70.9

N. 69° 42' W.

N. 52° 32' W.

609+25 ~ Reg'd 36"x54" CMP Cross Culvert
with Intersecting Headwall (Skew 75° Lt)
and 50 cu. yds. of Excav for inlet ditch.
Also 24 sq. yds. of Grouted Rubble Slope
Pay (12' inlet, inlet see detail on Sheet No. 6)

614+50 ~ Reg'd 36"x52" CMP Cross Culvert
(Skew 70° Lt) with Intersecting Headwall and 50
cu. yds. of Excav for inlet ditch. Also 31 sq.
yds. of Grouted Rubble Slope Pay (12' inlet, inlet
see detail on Sheet No. 6)

616+75 ~ Reg'd 36"x102" CMP Cross
Culvert (Skew 75° Lt) with Intersecting
Headwall and 100 cu. yds. of Excav for
inlet ditch. Also 16 sq. yds. of Grouted
Rubble Slope Pay (12' inlet, inlet see
detail on Sheet No. 6)

617+50 ~ Reg'd 1800 cu. yds. of Embank-
ment for Road Approach Rt and Lt and 24"x30"
CMP Side Drain Rt

CLEARING and GRUBBING
595 to 625 ~ Thick Young Lodge Pole Pines 5" to 8" Diameter

P.O.T. 598+100.0

P.L. 600+02.2

P.L. 616+30.9

P.L. 614+00

P.L. 9028.00

O.F.L. 215

O.F.L. 323

N.P.S.D. 360'
800' V.C.

90%
5981
5383

5973

573.4

3725

223 Cuts Widen Cuts Rt. 604+ to 615+

595

600

605

610

615

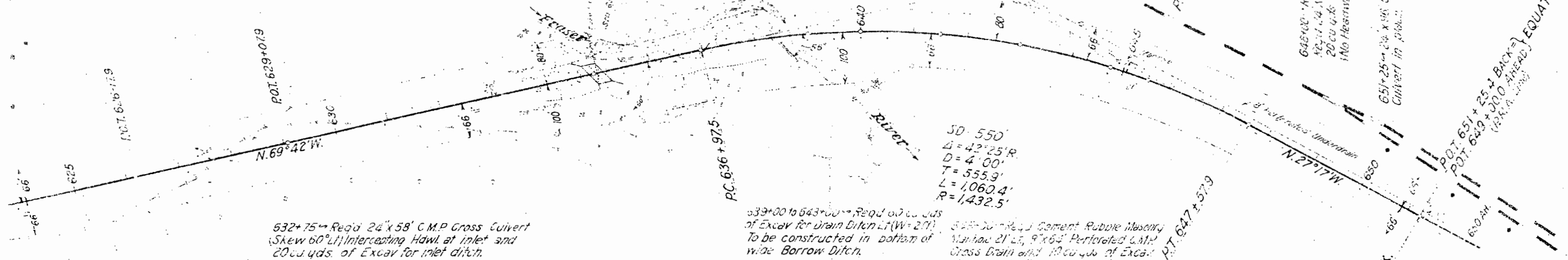
620

625

TYPICAL SECTION FOR CHANNEL CHANGE
LEFT AND RIGHT STA. 635±

POC 639+00.0
POC 640+00.0
POC 641+50.0
POC 642+53.4
POC 643+00.0
POC 644+75.0
POC 645+50.0

REV. 1-16-61
SHEET NO. 634+56.7 TO 635+00.0



Structure in place.
634+86.7 to 635+13.3 - Special Double
Concrete Box Culvert. (Constructed
under original contract except channel
change.)
1800 cu. yds. Uncl. Excav. for Chan-
nel Change Rt. & Lt. excavated material
to be used to dyke channel.

638+40~ Req'd 36'x122' C.M.P. Cross Culvert
(Skew 55° Rt.) with Type 'C' Hdwl. at inlet and
20 cu. yds. of Excav. for inlet and outlet
ditches.

639+00 to 643+00~ Req'd 60 cu. yds.
of Excav. for Drain Ditch Lt. (W=20').
To be constructed in bottom of
wide Borrow Ditch.

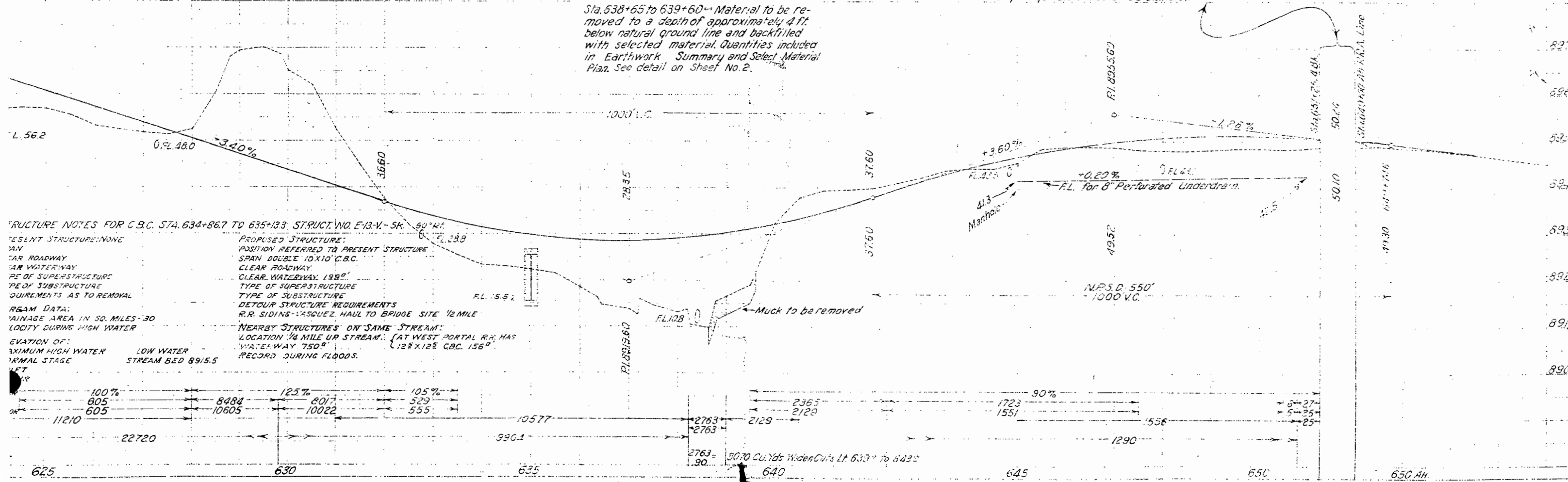
644+50~ Req'd 250 cu. yds. of
Uncl. Excav. for Road Approach Lt.

644+30~ Req'd 24'x48' C.M.P.
Cross Culvert with Type 'C' Hdwl. at
inlet and 20 cu. yds. of Excav.
for inlet and outlet ditches.

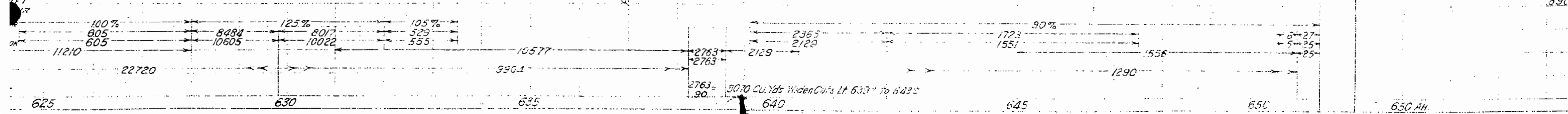
645+00 to 651+25~ Req'd 6'x62'
Perforated C.M.P. Underdrain Lt. (H for
trench=4 ft min.) See trench detail
on Sheet No. 6.

CLEARING and GRUBBING
625 to 650~ Thick Young Lodge Pole Pines 6" to 8" Diameter.

Sta. 638+65 to 639+60~ Material to be re-
moved to a depth of approximately 4 ft
below natural ground line and backfilled
with selected material. Quantities included
in Earthwork Summary and Select Material
Plan. See detail on Sheet No. 2.

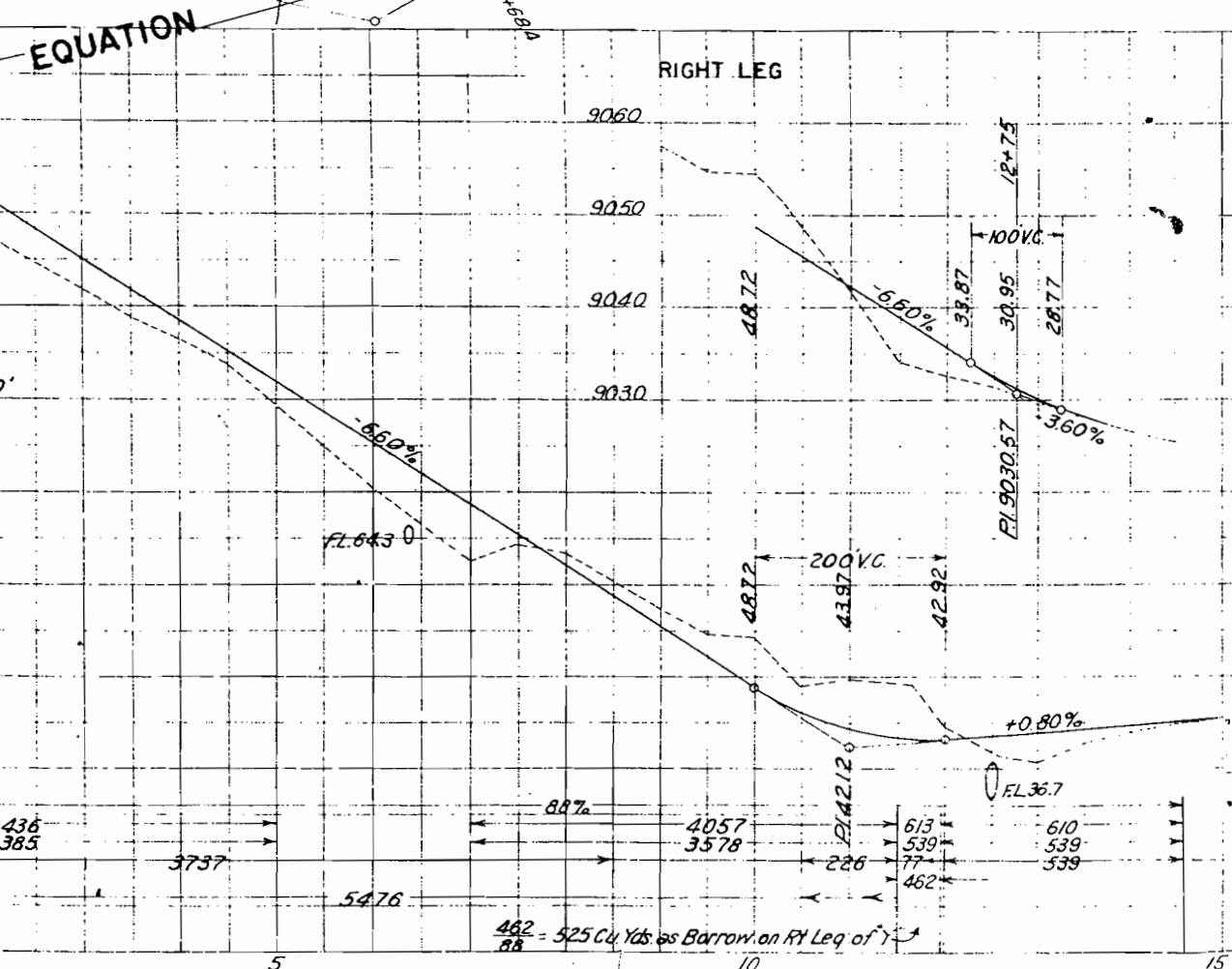
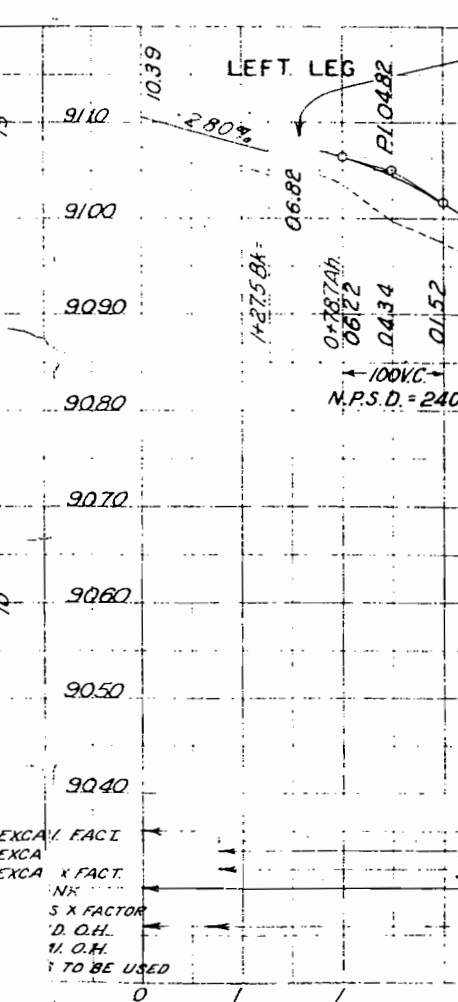
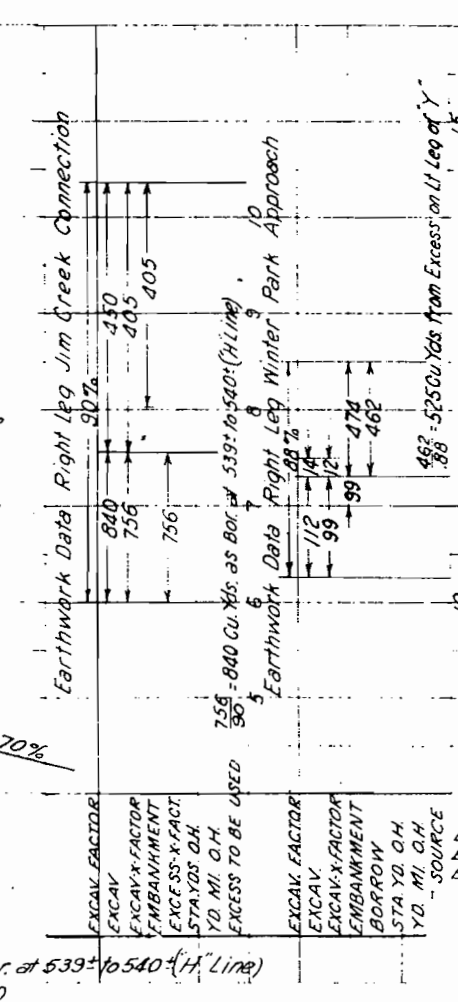
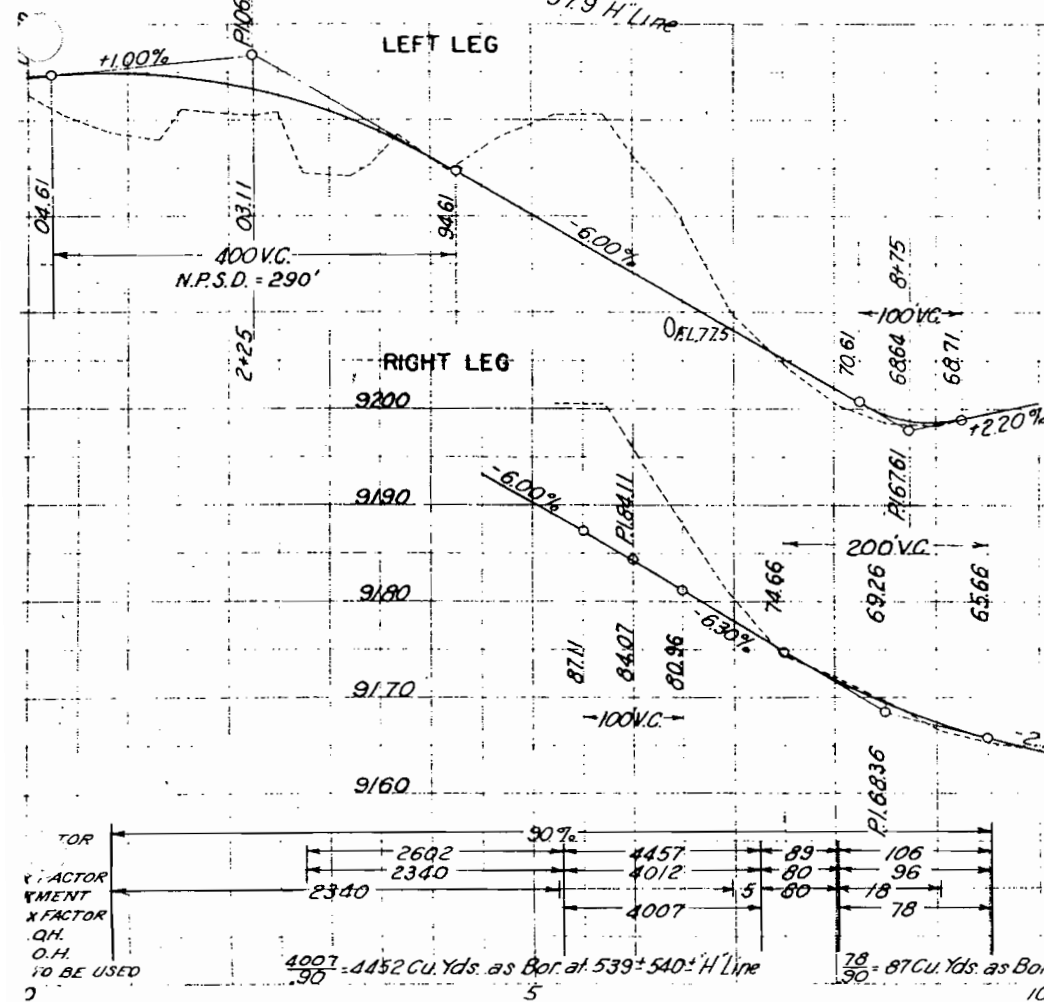
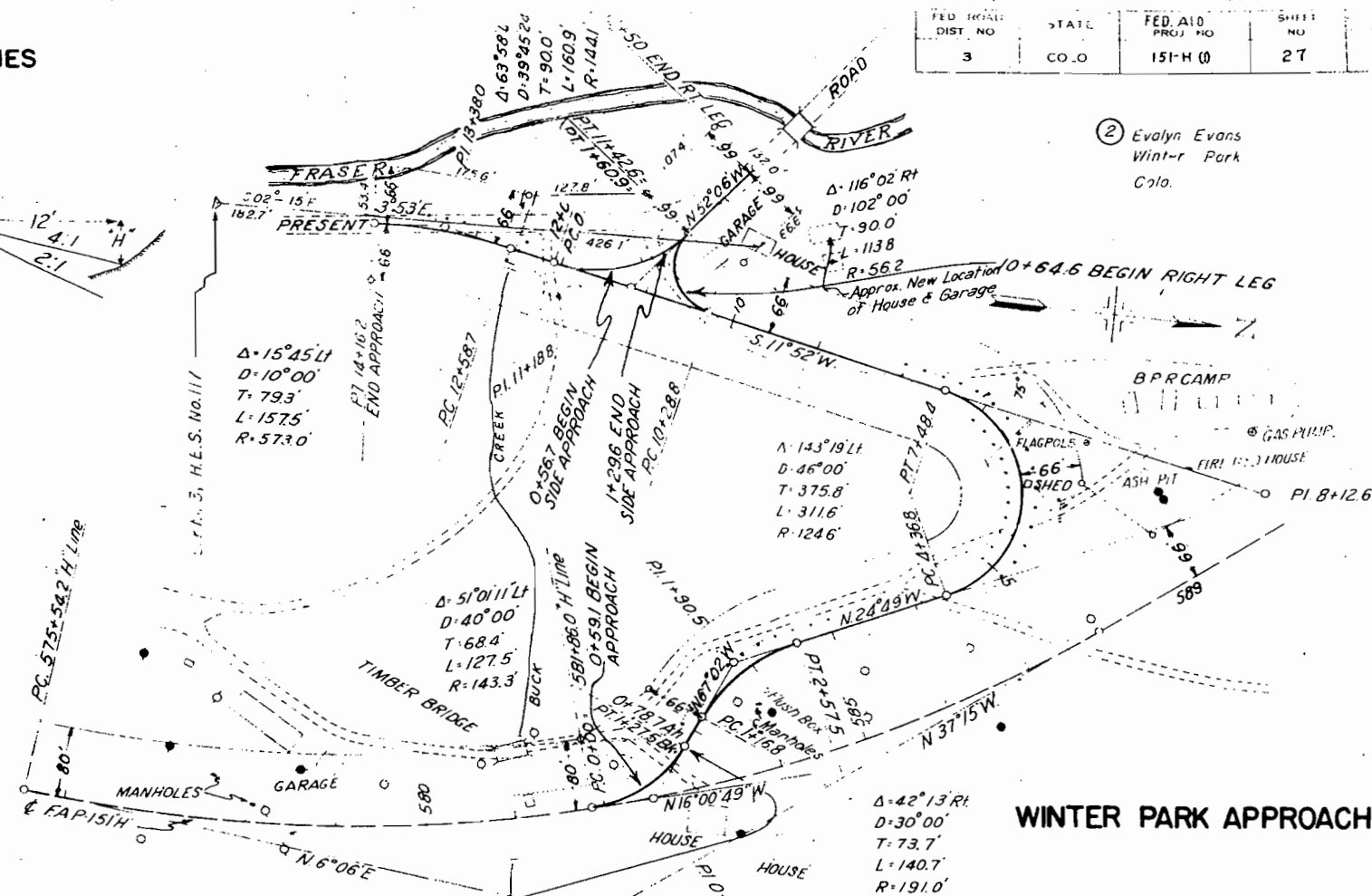
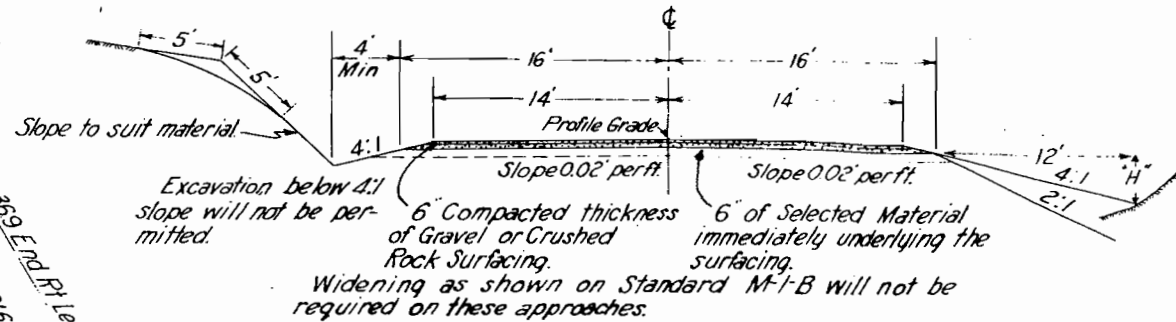
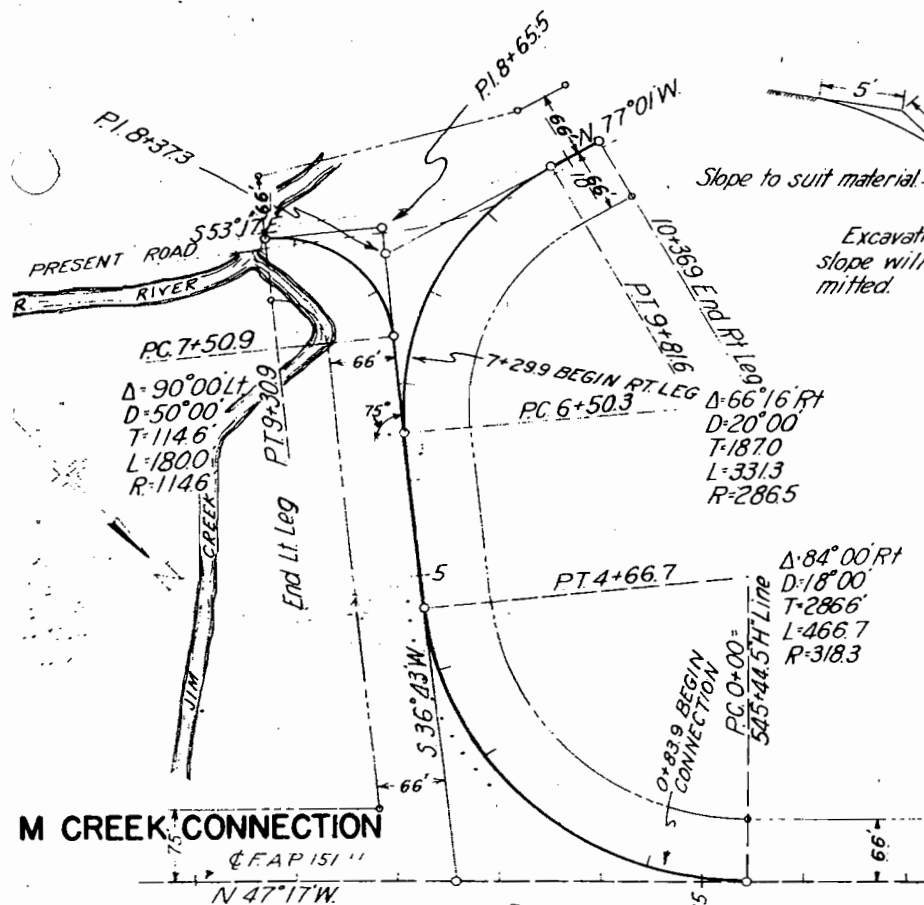


STRUCTURE NOTES FOR C.B.C. STA. 634+86.7 TO 635+13.3. STRUCT. NO. E-13-V. - SK. 60° RT.
PRESENT STRUCTURE: NONE
VAN
CAR ROADWAY
CAR WATERWAY
PE OF SUPERSTRUCTURE
PE OF SUBSTRUCTURE
REQUIREMENTS AS TO REMOVAL
REAM DATA:
RAINAGE AREA IN SQ. MILES - 30
LOCALITY DURING HIGH WATER
ELEVATION OF:
MAXIMUM HIGH WATER
NORMAL STAGE
LOW WATER
STREAM BED 891.55
RECORD DURING FLOODS.
NEARBY STRUCTURES ON SAME STREAM:
LOCATION 1/4 MILE UP STREAM. (AT WEST PORTAL RR. HAS
WATERWAY 750'.
RECORD DURING FLOODS.
R.R. SIDING - VASQUEZ. HAUL TO BRIDGE SITE 1/2 MILE
TYPE OF SUPERSTRUCTURE
TYPE OF SUBSTRUCTURE
DETOUR STRUCTURE REQUIREMENTS
SPAN DOUBLE 10'x10' C.B.C.
CLEAR ROADWAY
CLEAR WATERWAY 198.0'
POSITION REFERRED TO PRESENT STRUCTURE

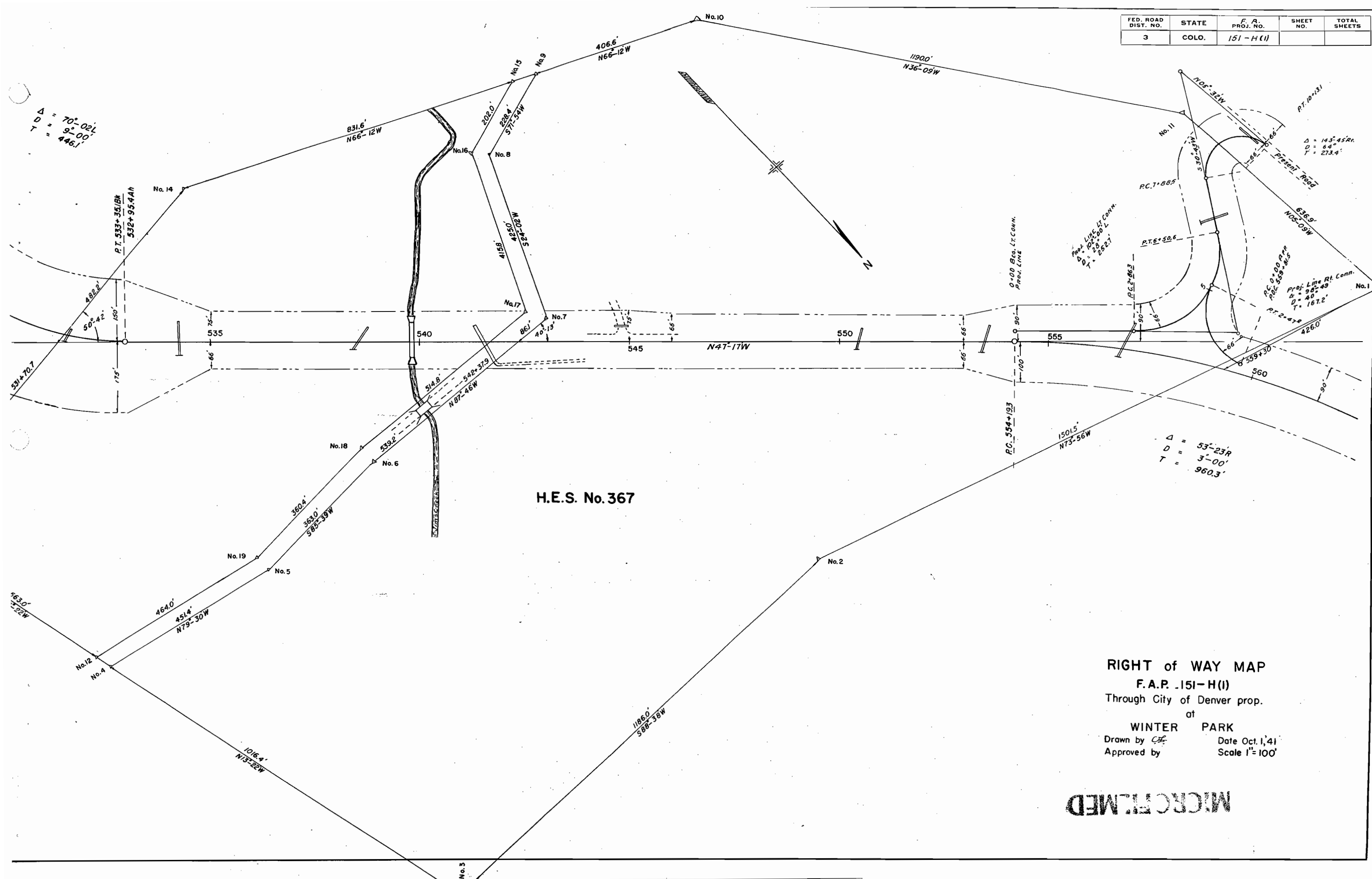


TYPICAL SECTION FOR JIM CREEK & WINTER PARK APPROACHES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	CO. O	151-H (0)	27	



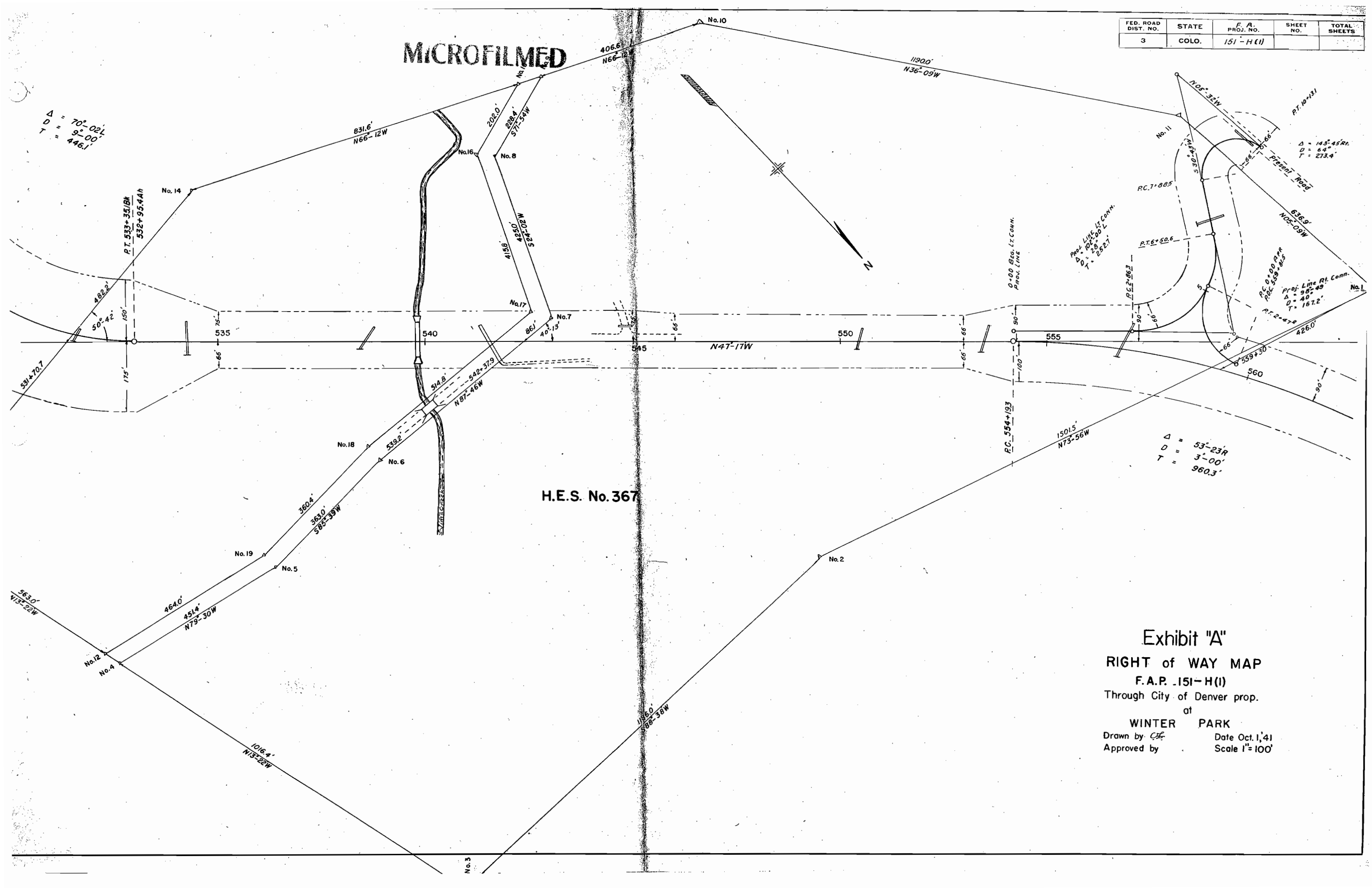
FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	151-H(I)		



MICROFILMED

FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	151-H(1)		

MICROFILMED



H.E.S. No. 367

Exhibit "A"
RIGHT of WAY MAP
F.A.P. 151-H(1)
 Through City of Denver prop.
 at
WINTER PARK
 Drawn by *CZ* Date Oct. 1, '41
 Approved by Scale 1"=100'

FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	151-H(1)		

