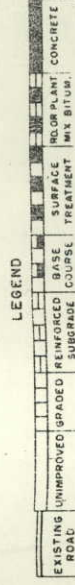


REGION . . . 9 STATE COLORADO
PROJECT 27-1(1), Neel and Raymond
SHEET / OF SHEETS

INDEX TO SHEETS		STATION
SHEET No.	DESCRIPTION	
1	Title Sheet	
2	Typical Sections	
	Summary	

CLASS
ROOSEVELT NATIONAL FOREST
BOULDER COUNTY



APPROVED: _____ DATE _____ 19____

REGIONAL ENGINEER

HEIGHT	CUT SLOPE
0' to 5'	3 : 1
5' to 10'	2 : 1
10' and up	1 1/2 : 1

HEIGHT	EMBANKMENT SLOPE
0' to 3'	6 : 1
3' to 6'	4 : 1
6' to 12'	2 : 1
12' and up	2 : 1

The above tables are to be used as a guide in the design and construction of the project. The designer or field engineer may vary from these to fit existing conditions.



CUT SLOPE ROUNDING

When the cut slope is less than 8', reduce B & F distance to the actual slope distance.

Slope Rounding shall be considered as a subsidiary part of the work required in dressing the cut slopes and no allowance will be made for materials moved.

Rounding, Warping, and Finishing slopes shall be as provided in Standard Specifications and/or Special Provisions.

BALLAST MATERIALS

STA. TO STA.	UPPER BALLAST		LOWER BALLAST	
	Item	Depth	Item	Depth
479+00	104 (2)	4"		

GENERAL NOTES

If the Plans require the placing of lower ballast, the roadway section shall be constructed to accommodate the required thickness of lower ballast below adjusted grade.

On Grades of 3% or less, where wet or unstable conditions exist, the engineer may increase the ditch width 3 feet or more.

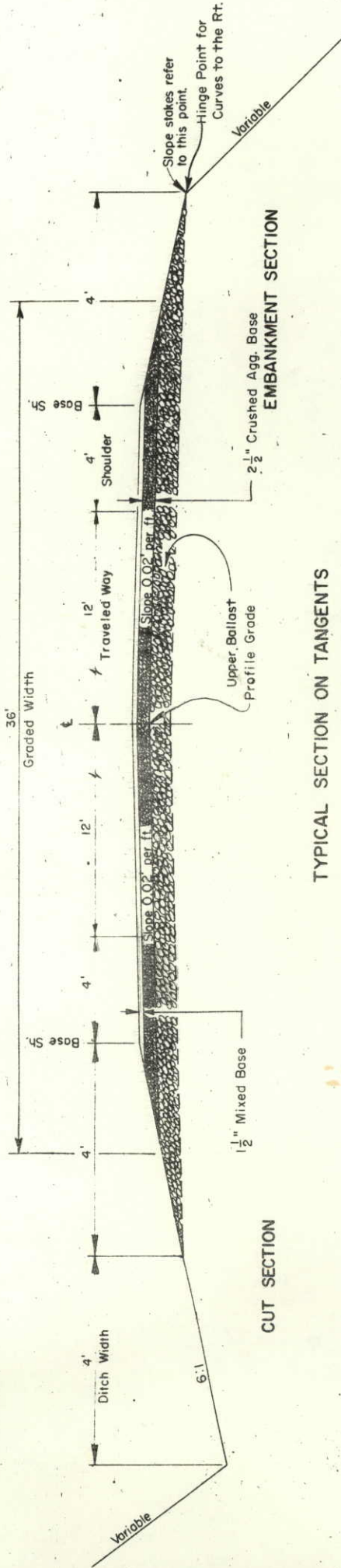
Any subsurface data represented on these plans is limited to the specific locations shown and those locations alone.

The planned thickness of Ballast⁺ Materials is based on laboratory analysis of samples, taken at random along the proposed improvement. During construction, the engineer will adjust the thickness as necessary to insure adequate Structural Stability.

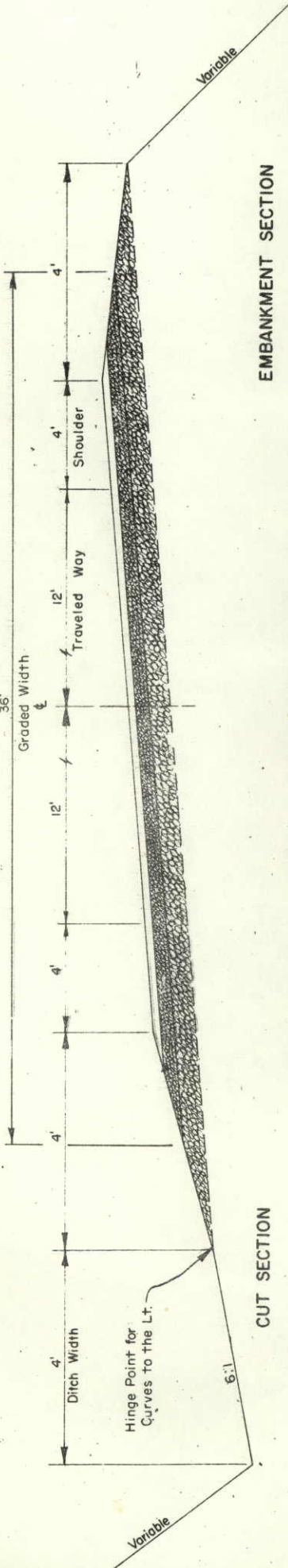
CURVE WIDENING*

Degree of Curve	Pavement Width
5°-10°	20' 22' 24'
11°-21°	2' 3' 2'
22° & Up	4' 3' 2'

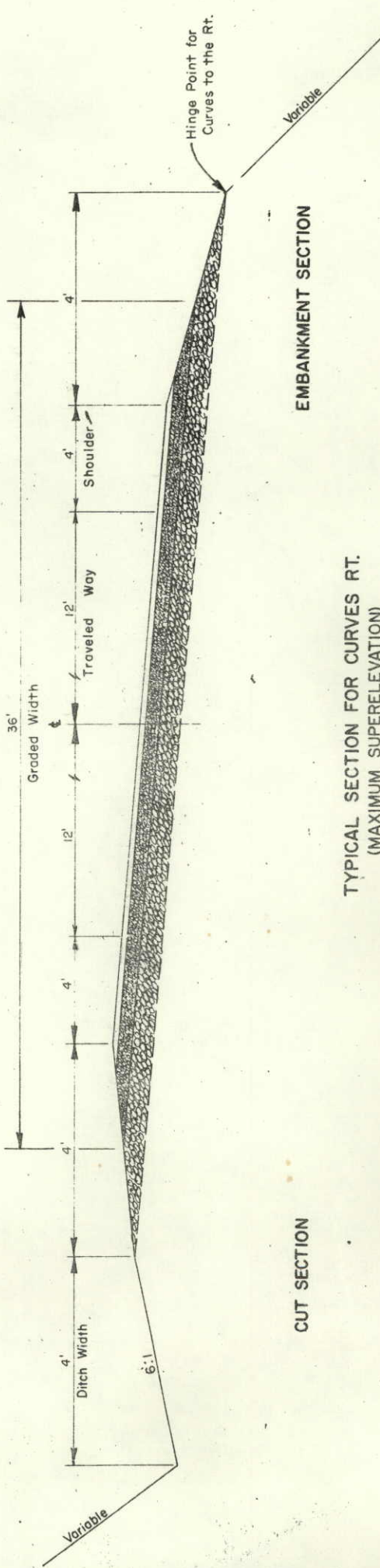
* Widen Subgrade, Base and Surfacing.



TYPICAL SECTION ON TANGENTS



TYPICAL SECTION FOR CURVES LT. (MAXIMUM SUPERELEVATION)



TYPICAL SECTION FOR CURVES RT. (MAXIMUM SUPERELEVATION)

Max. Super -0.08' per ft.

Min. Super -0.02' per ft.

Tangents +0.02' per ft.

Adjusted Grade on Curves
(Not shown on the plans)

Adjusted Grade on Tangents
(5' Below Profile Grade)

METHOD OF SUPERELEVATING ON CURVES

Subgrade Widening on Curves.
(See Table)

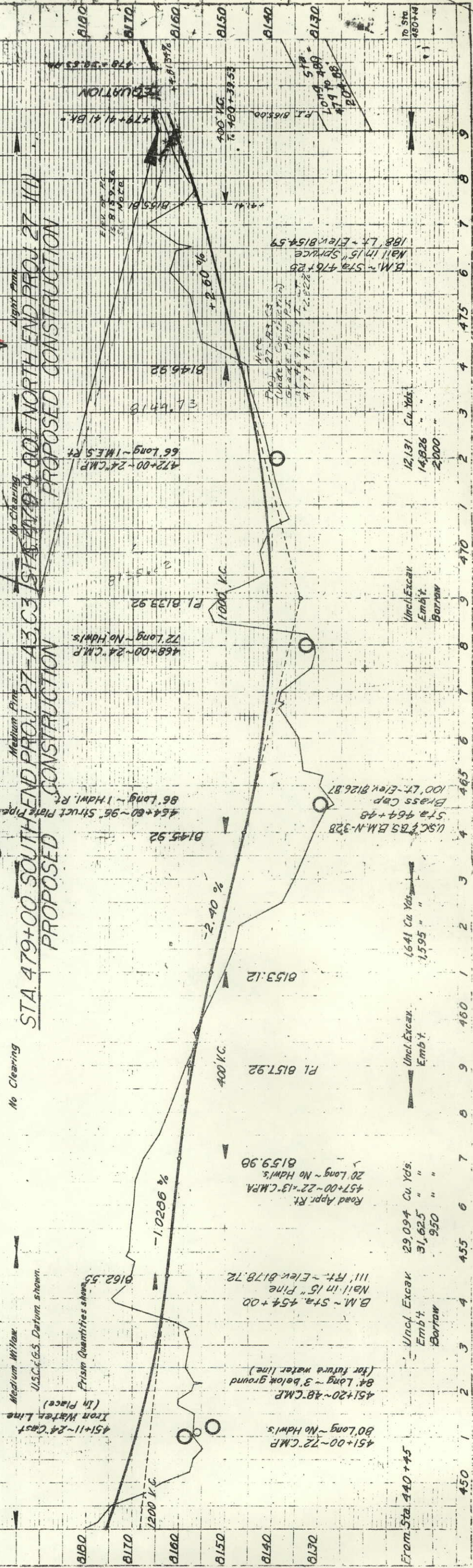
Hinge Point for Curve Superelevation.

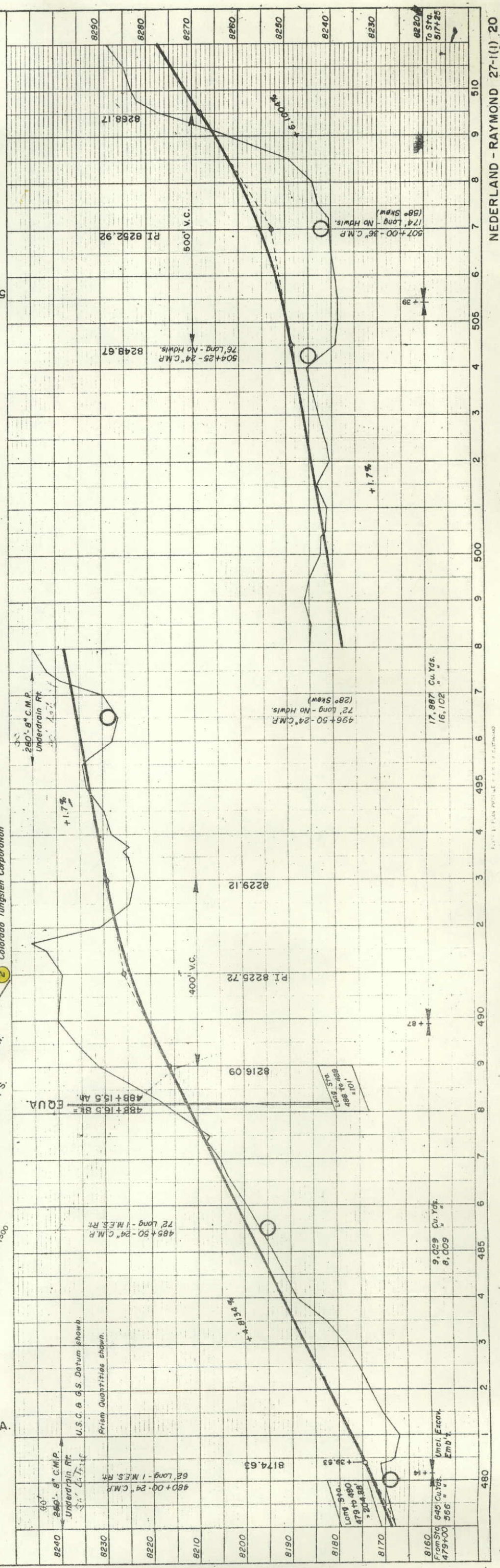
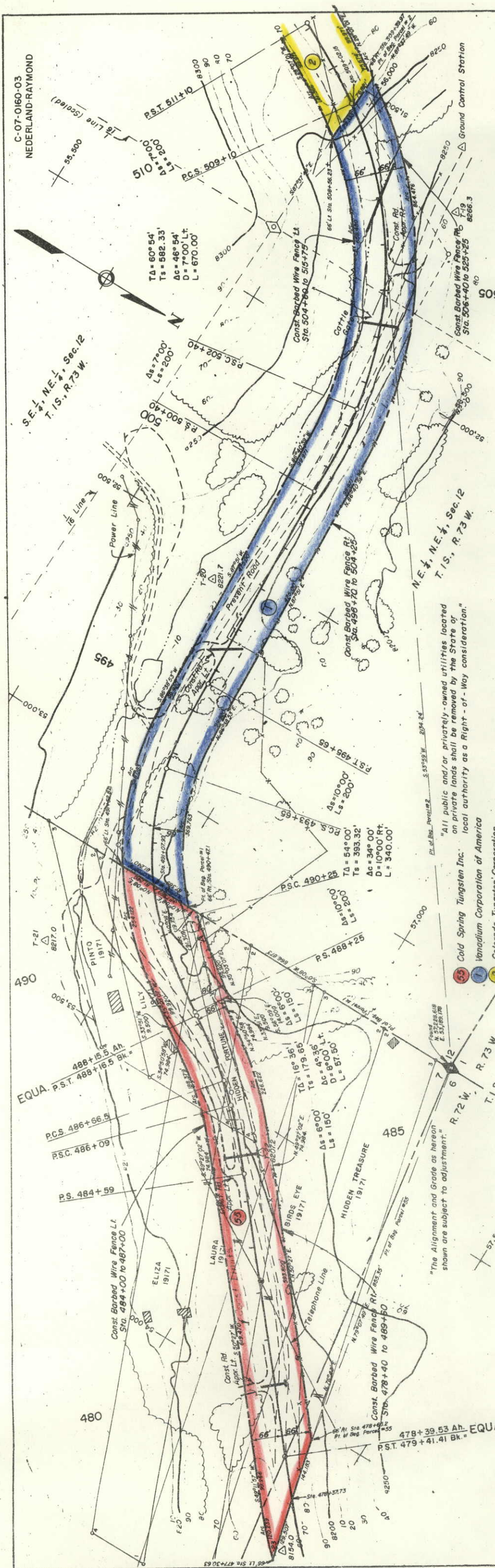
U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION NO. 9 DENVER, COLORADO

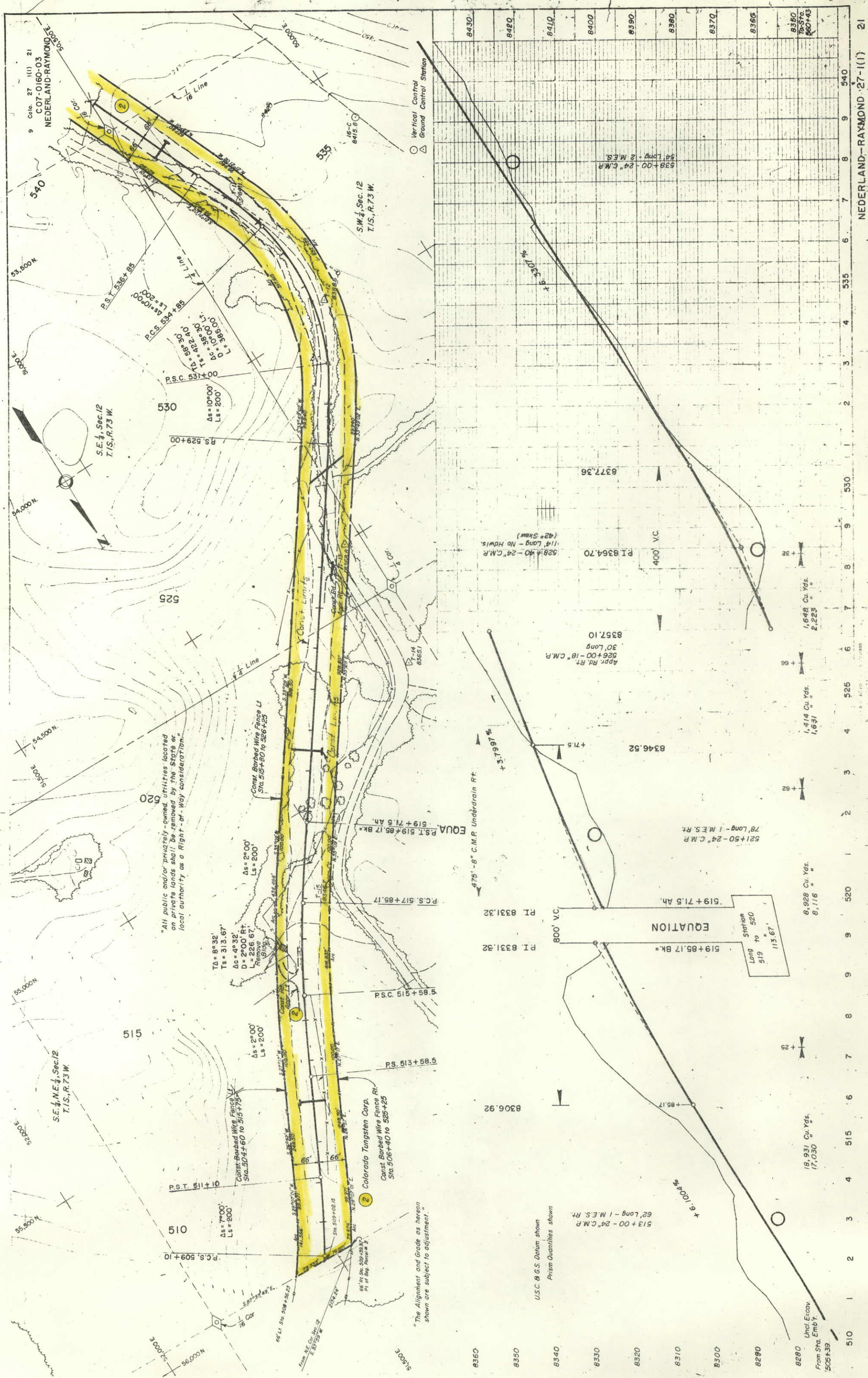
TYPICAL CROSS SECTIONS

NATIONAL FOREST HIGHWAYS

ROUTE: <i>Nederland - Raymond</i>	ROADBED WIDTHS
PROJECT: <i>27-1(1) Grading & Bit Stab. Base</i>	GRADED: <i>36'</i> SH to SH
NATIONAL FOREST: <i>Roosevelt</i>	BASE: <i>32'</i> SH to SH
COUNTY: <i>Boulder</i>	SURFACE: <i>SH to SH</i>
STATE: <i>Colorado</i>	



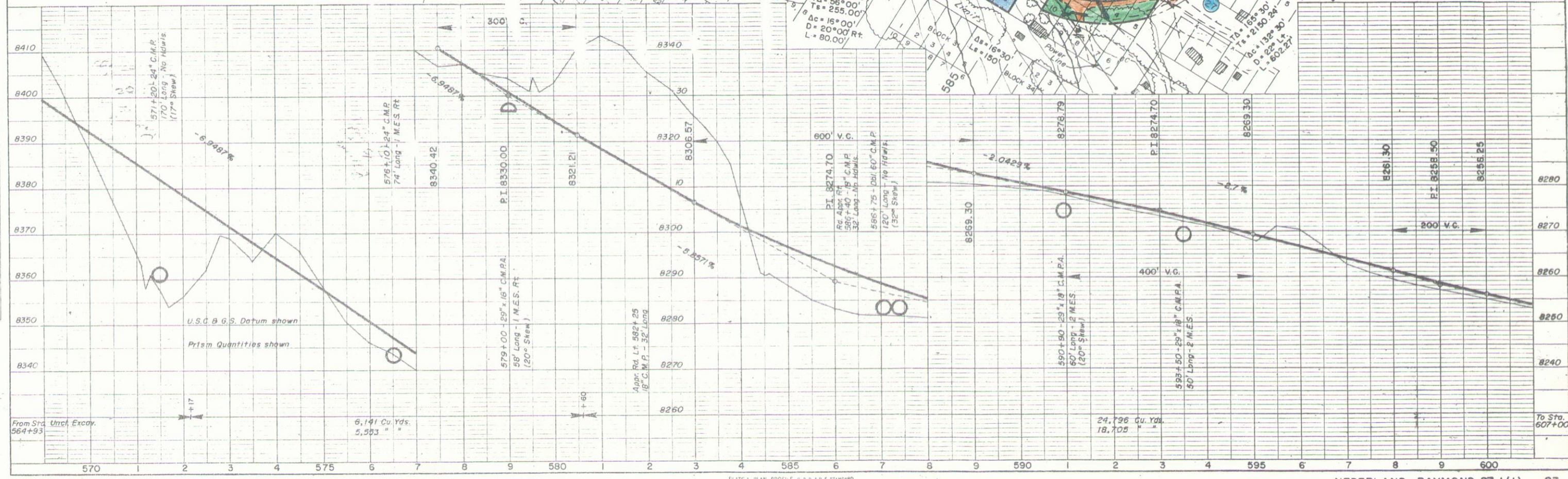
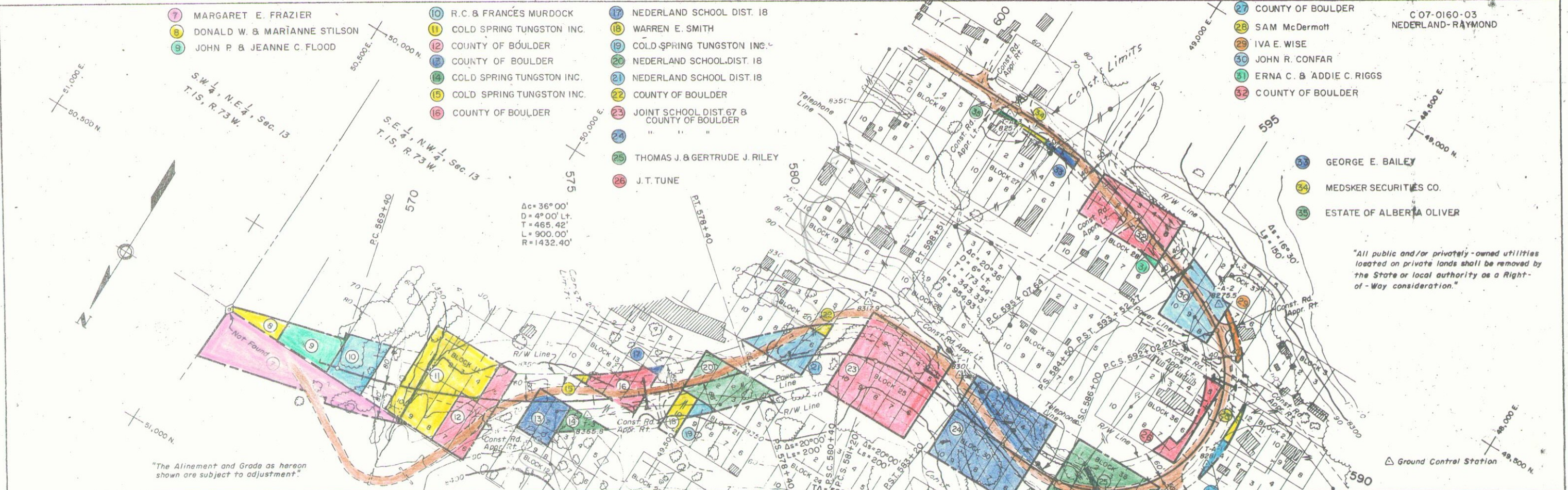




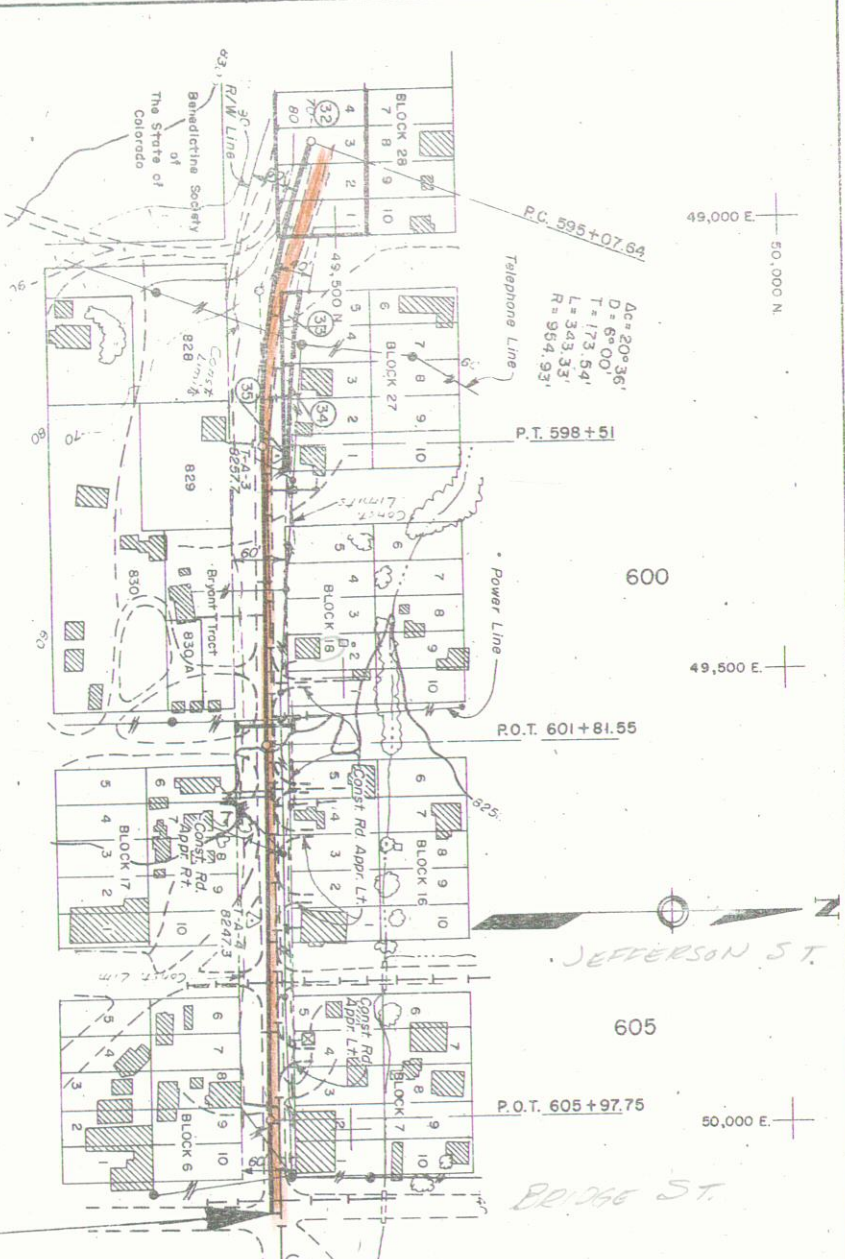
PLAN	DATE	BY	NO.
NOTED			
NOTED			
NOTED			

PROFILE	DATE	BY	NO.
NOTED			
NOTED			
NOTED			

- | | | | |
|--------------------------------|------------------------------|--|-----------------------------|
| 7 MARGARET E. FRAZIER | 10 R.C. & FRANCES MURDOCK | 17 NEDERLAND SCHOOL DIST. 18 | 27 COUNTY OF BOULDER |
| 8 DONALD W. & MARIANNE STILSON | 11 COLD SPRING TUNGSTON INC. | 18 WARREN E. SMITH | 28 SAM McDermott |
| 9 JOHN P. & JEANNE C. FLOOD | 12 COUNTY OF BOULDER | 19 COLD SPRING TUNGSTON INC. | 29 IVA E. WISE |
| | 13 COUNTY OF BOULDER | 20 NEDERLAND SCHOOL DIST. 18 | 30 JOHN R. CONFAR |
| | 14 COLD SPRING TUNGSTON INC. | 21 NEDERLAND SCHOOL DIST. 18 | 31 ERNA C. & ADDIE C. RIGGS |
| | 15 COLD SPRING TUNGSTON INC. | 22 COUNTY OF BOULDER | 32 COUNTY OF BOULDER |
| | 16 COUNTY OF BOULDER | 23 JOINT SCHOOL DIST. 67 & COUNTY OF BOULDER | |
| | | 24 " " " " | |
| | | 25 THOMAS J. & GERTRUDE J. RILEY | |
| | | 26 J.T. TUNE | |
| | | | 33 GEORGE E. BAILEY |
| | | | 34 MEDSKER SECURITIES CO. |
| | | | 35 ESTATE OF ALBERTA OLIVER |



PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		



- ③2 COUNTY OF BOULDER
- ③3 GEORGE E. BAILEY
- ③4 MEDSKER SECURITIES CO
- ③5 ESTATE OF ALBERTA OLIVER

"All public and/or privately-owned utilities located on private lands shall be removed by the State or local authority as a Right-of-Way consideration."

