

# COLORADO DEPARTMENT OF HIGHWAYS

## PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO ~~CS 34-0086-05~~ STATE HIGHWAY NO 86 S 0028(7)

ELBERT COUNTY

RIGHT OF WAY

### SCALES OF ORIGINAL DRAWINGS

ON PLAN 1 IN 100 FT  
ON PROFILE 1 IN 100 FT HORIZONTAL  
1 IN 10 FT VERTICAL  
GRADE LINE ON PROFILE IS SHOWN 5 GRADE OF FIELD ROAD  
GROSS LENGTH OF PROJECT 12 633 4ft 2 392 7m  
NET LENGTH OF PROJECT

| RA | RT | RT | RT | RT |
|----|----|----|----|----|
| 9  | 00 | 00 | 00 | 00 |

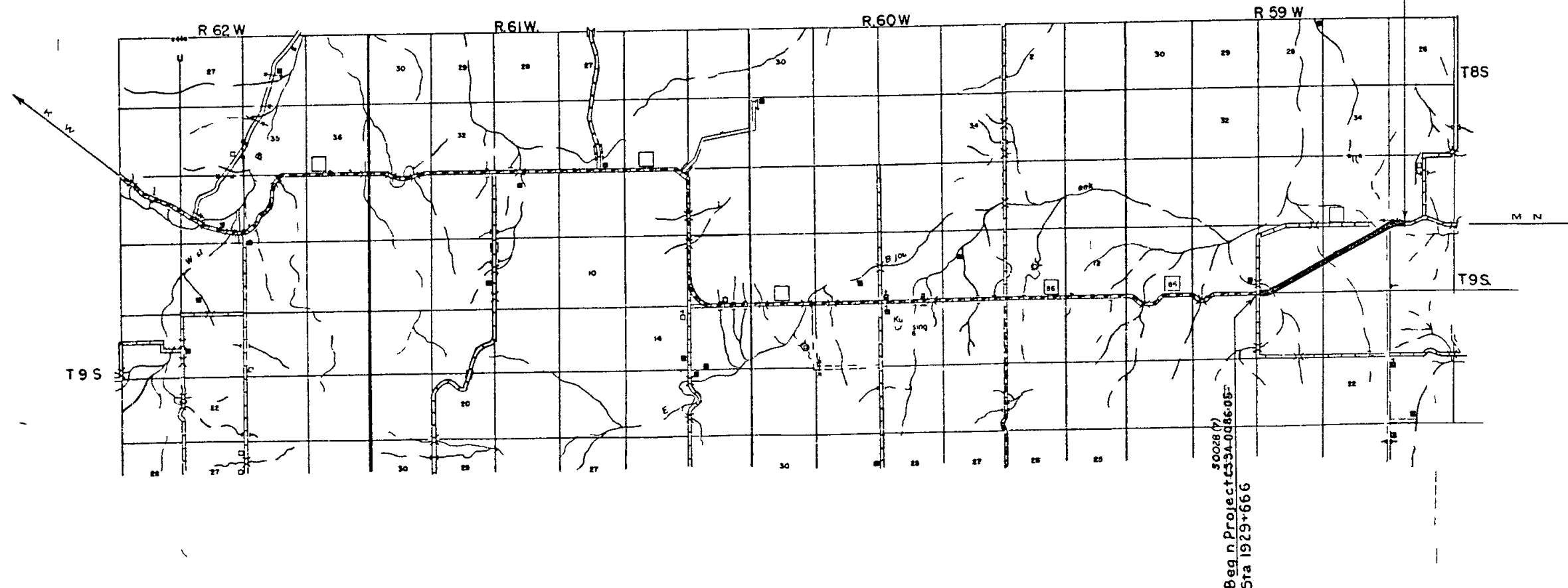
RIGHT WAY S 0028(7)

### CONVENTIONAL SIGNS

CENTER LINE  
RIGHT OF WAY LINE  
COUNTY LINE  
TOWNSHIP OR RANGE LINE  
LAND LINES  
RAILROAD  
BARBED WIRE FENCE  
COMBINATION WIRE FENCE  
SNOW FENCE  
TELEPHONE & TELEGRAPH LINES  
POWER LINE  
DETOUR  
PRESENT ROAD (Plan Sheets)

INDEX OF SHEETS

| SHEET NO |                       |
|----------|-----------------------|
| 1        | TITLE SHEET           |
| 2        | TABULATION SHEET      |
| 3 7      | PLAN & PROFILE SHEETS |
| 8        | OWNERSHIP MAP         |



ELBERT

COUNTY S H No 86

~~PROJ. CS 34-0086-05~~  
S0028(7)

|    |          |          |                          |    |  |
|----|----------|----------|--------------------------|----|--|
| FE | CC<br>ON | DISTRICT |                          | H* |  |
|    | CO       | ADC      | <del>00 01 0000 00</del> | 2  |  |

RIGHT OF WAY      S 002R(7)

[illegible]

SE 1/4 S. 8  
T9S. R59W

N

1925 PC 1925+00.6 (P. Sect d. L. L. e.)  
1925 PC 1925+340 (S. Sect d. L. L. e.)

Point of Beginning Project  
CS34 0086 05 Sta 1929+66.6  
S0028 (7)

S0028 (7)

NE 1/4 Sec 17  
T9S. R59W

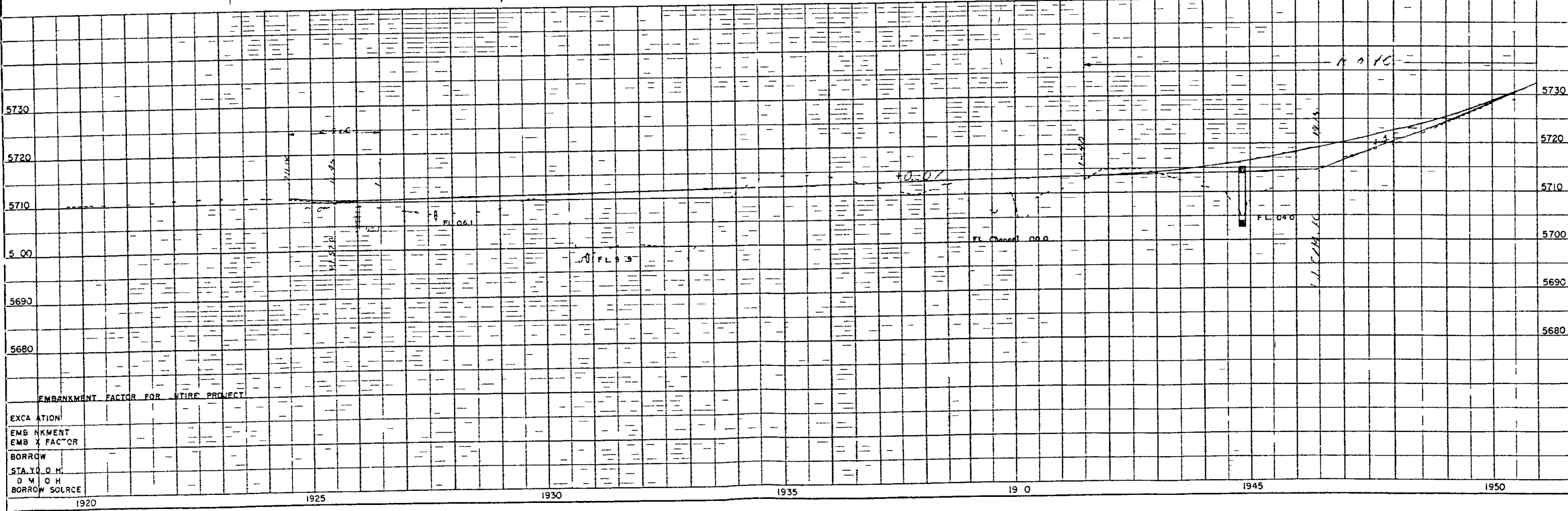
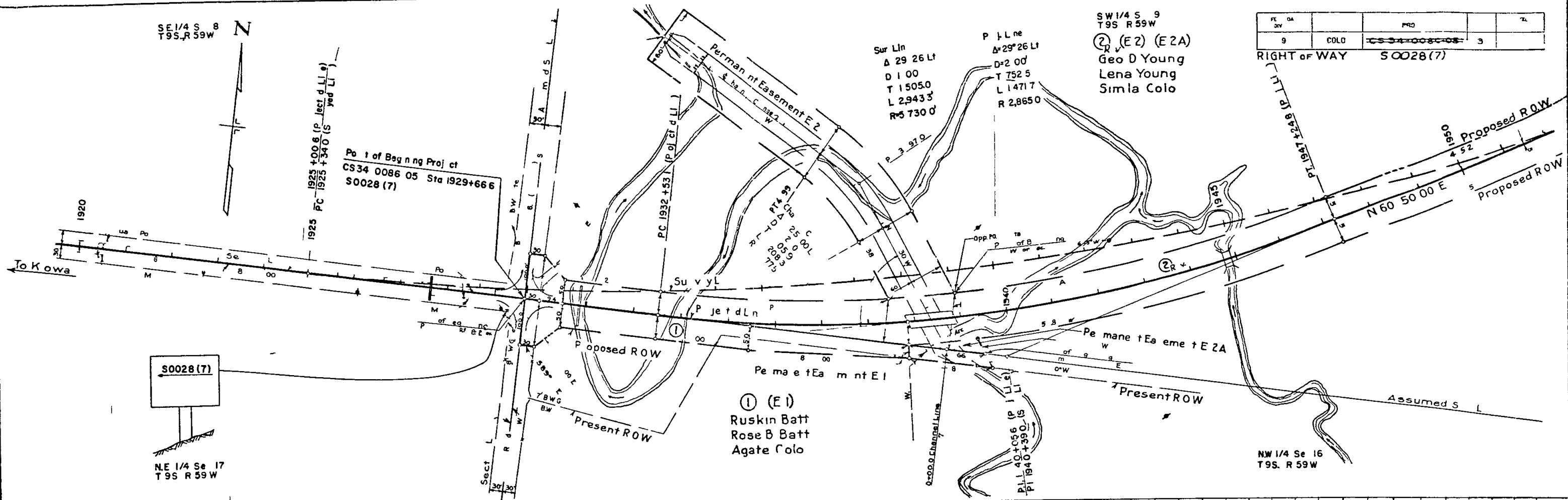
① (E1)  
Ruskin Batt  
Rose B Batt  
Agate Colo

SW 1/4 S. 9  
T9S. R59W

② (E2) (E2A)  
Geo D Young  
Lena Young  
Simla Colo

| FE | OA   | PC           | PT |
|----|------|--------------|----|
| 9  | COLO | CS34-0086-05 | 3  |

RIGHT of WAY S0028(7)



EMBANKMENT FACTOR FOR ENTIRE PROJECT

EXCAVATION

EMBANKMENT

EMBANKMENT FACTOR

BORROW

STATIONING

BORROW SOURCE

JUN 1982

AK

PLAN

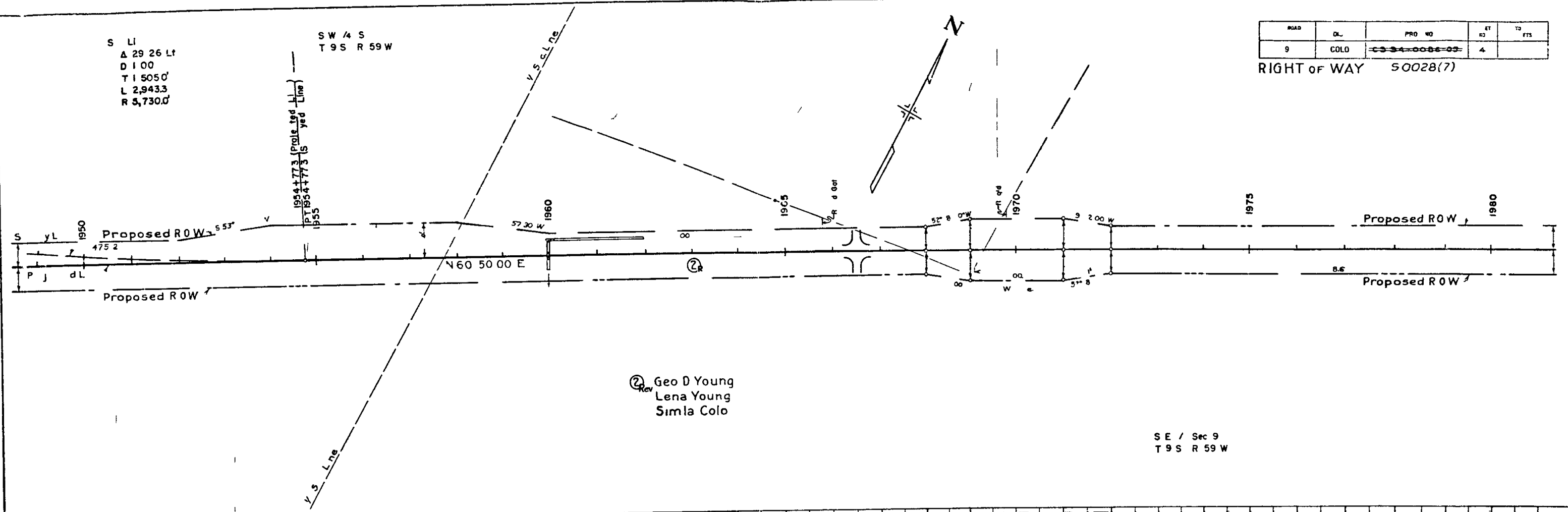
PROFILE

S L  
Δ 29 26 Lt  
D 100  
T 15050'  
L 2,943.3  
R 5,730.0

SW 1/4 S  
T 9 S R 59 W

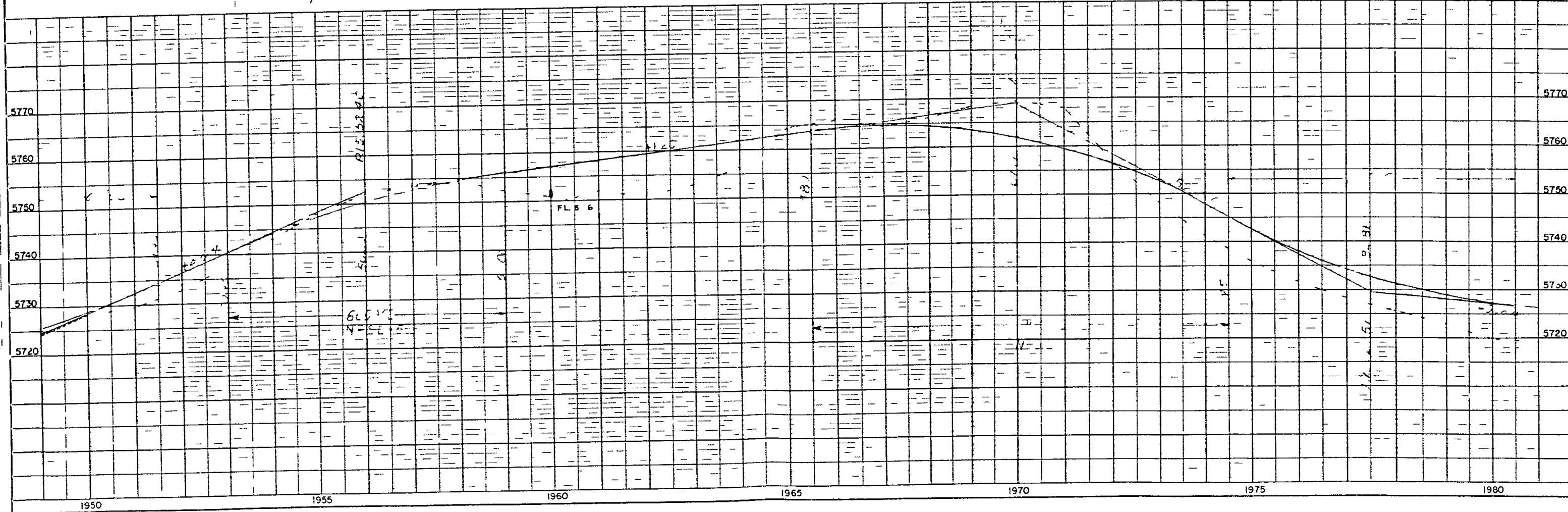
| ROAD | DL   | PRO NO   | ET | TD |
|------|------|----------|----|----|
| 9    | COLO | 50028(7) | 4  |    |

RIGHT OF WAY 50028(7)



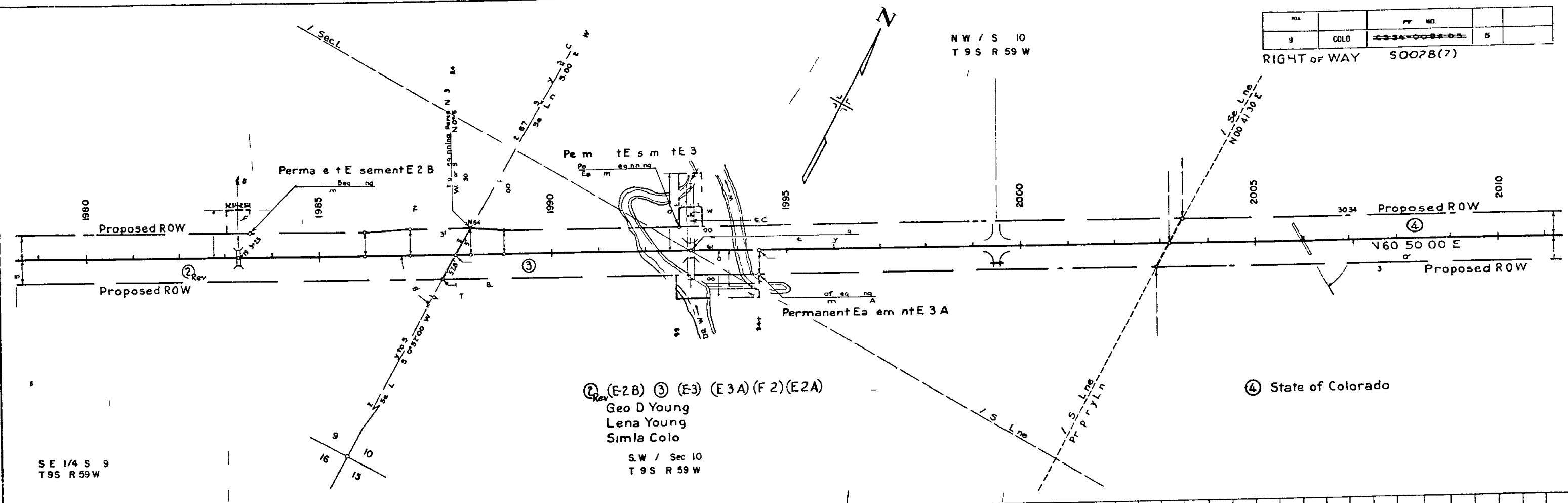
② Geo D Young  
Lena Young  
Simla Colo

SE / Sec 9  
T 9 S R 59 W



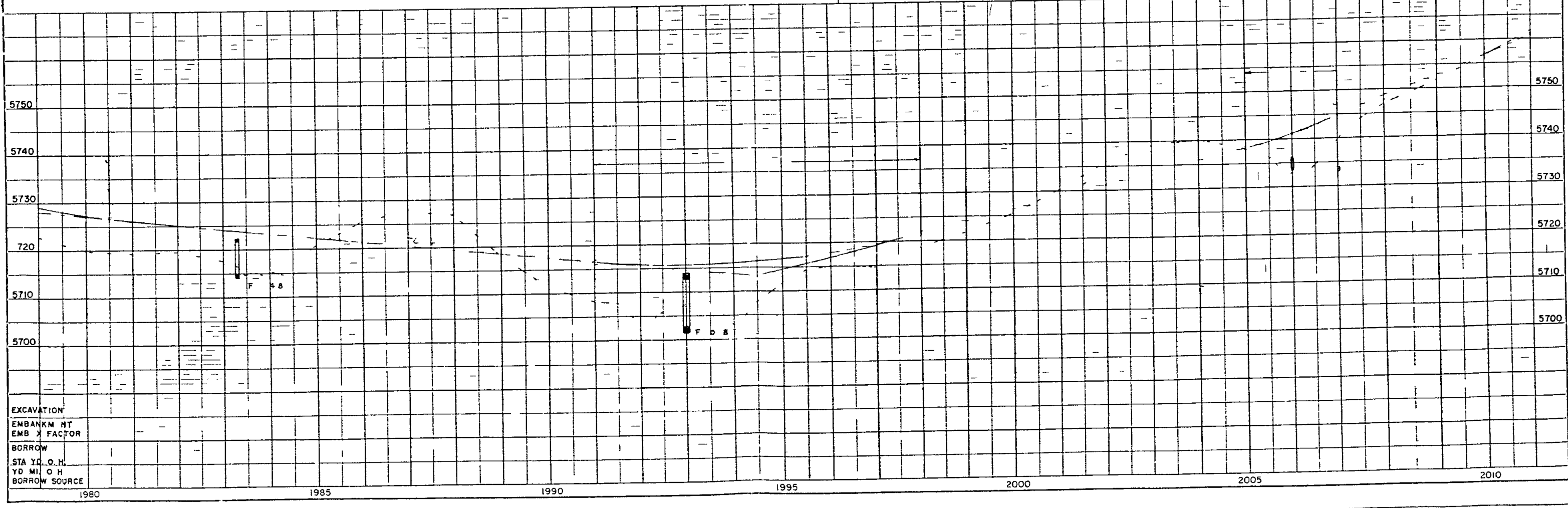
JUL 1962

PLAN



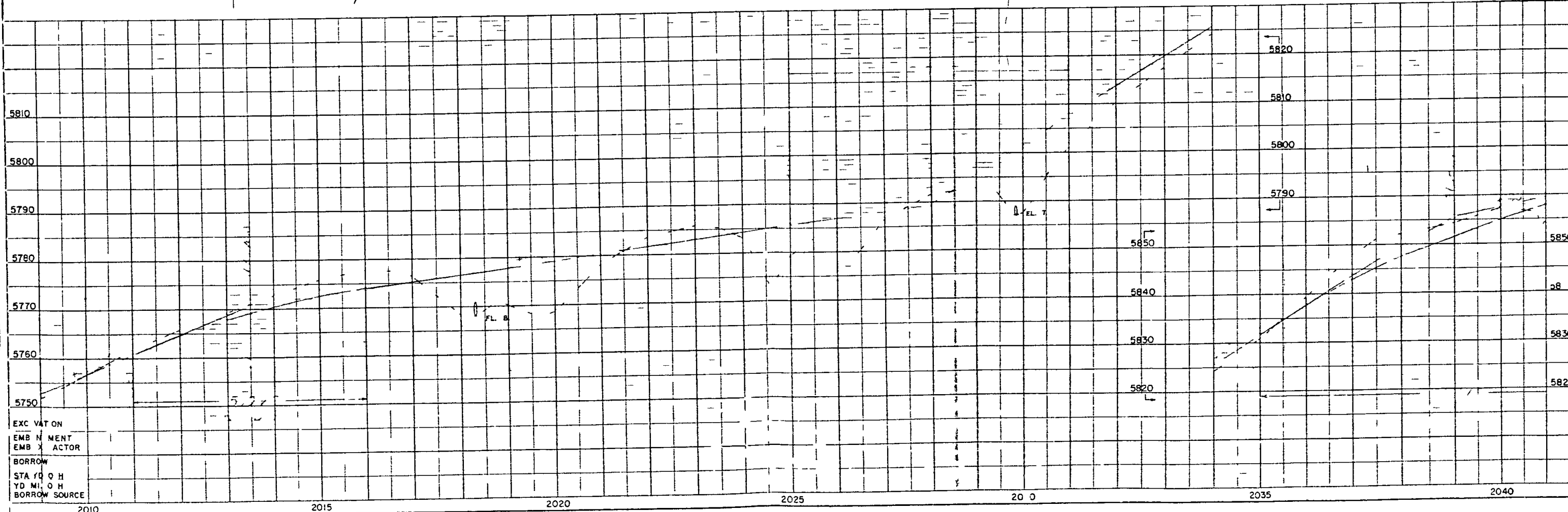
② (E2B) ③ (E3) (E3A) (F2) (E2A)  
Geo D Young  
Lena Young  
Simla Colo  
S.W. / Sec 10  
T 9 S R 59 W

④ State of Colorado



PROFILE

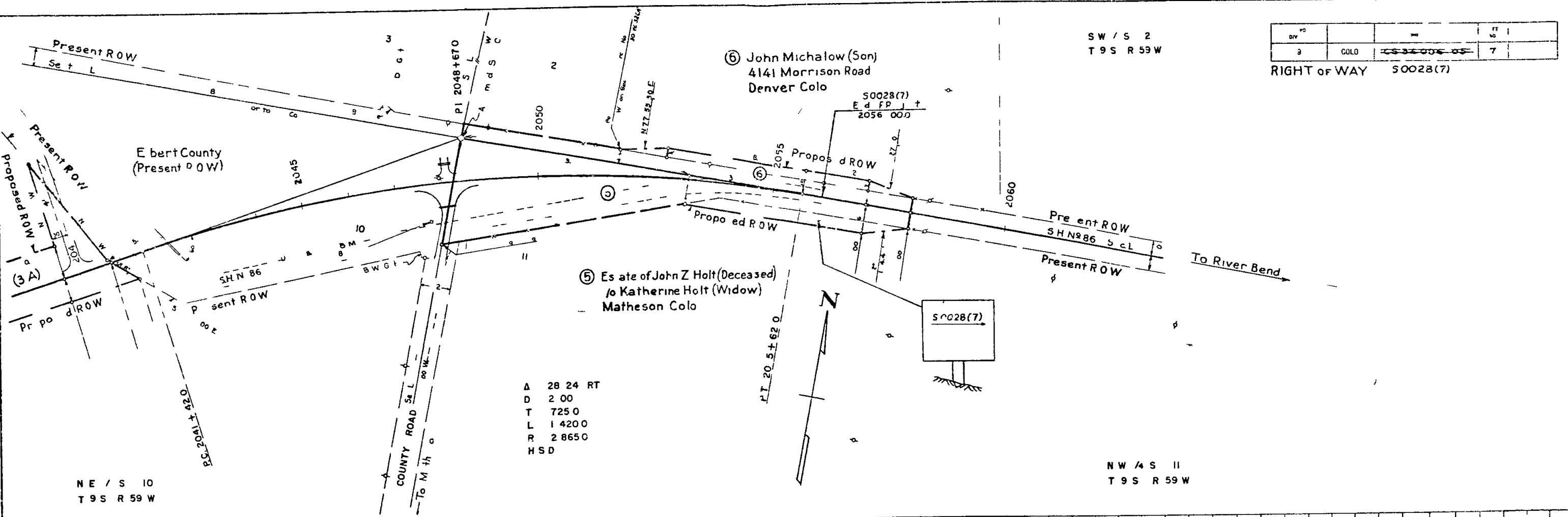
RIGHT OF WAY 50028(7)



JUN 1962

PLAN

PROFILE

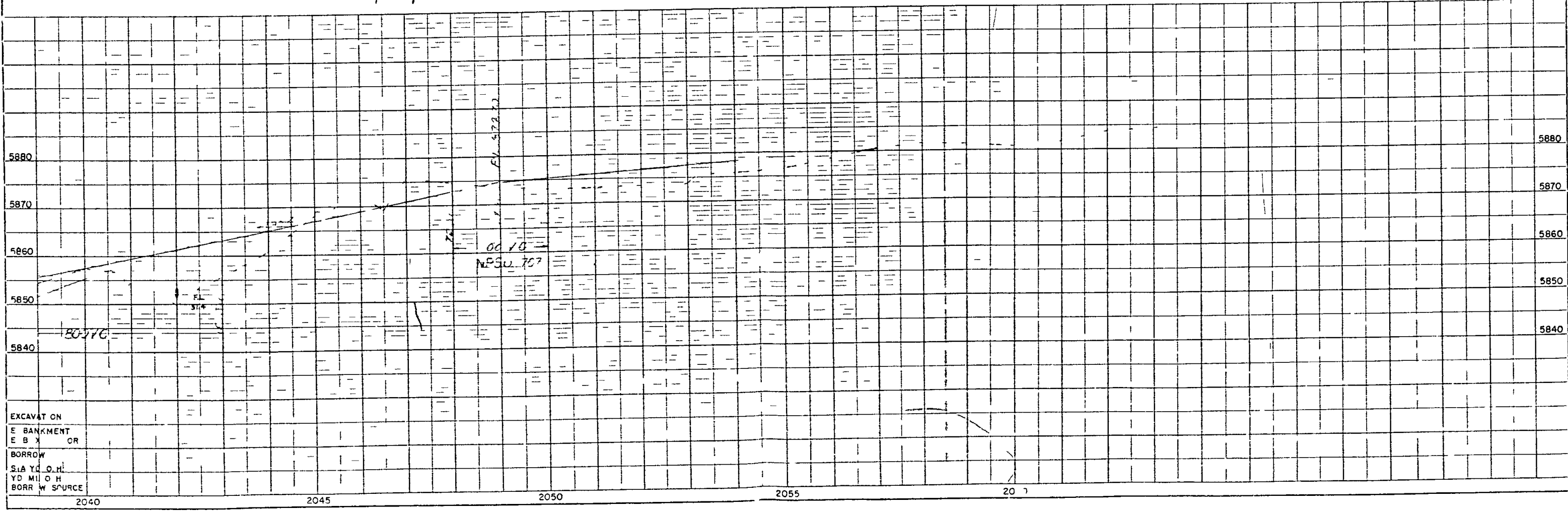


SW / S 2  
T 9 S R 59 W

| SW | SE   | NE | NW |
|----|------|----|----|
| 3  | COLO | 5  | 7  |

RIGHT OF WAY 50028(7)

NW / 4 S 11  
T 9 S R 59 W





| TE     |      | Of W |   | en gr |  | Line |
|--------|------|------|---|-------|--|------|
| ende   | anmu | O    | I |       |  |      |
| _____E |      |      |   |       |  |      |

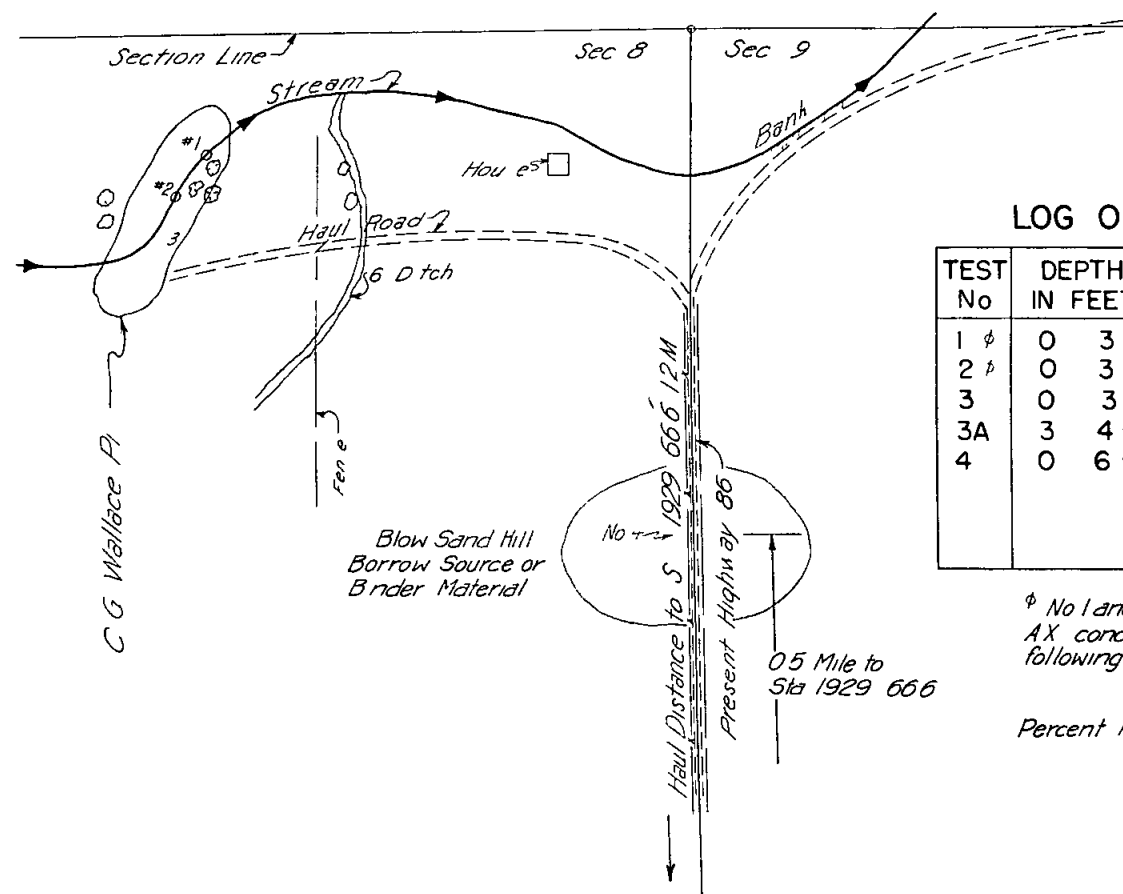
# PIT NO 1 SAMPLE NO 2309

## SUB-BASE & STRUCTURE BACKFILL PIT

OWNER - C G WALLACE  
QUANTITY AVAILABLE - AMPLE

LOCATION - N E 1/4 SEC 8 T 9 S R 59 W  
1 2 MILES FROM STA 1929+66.6

ESTIMATED FOR STRIPPING 1500 CU YDS



## LOG OF PIT NO 2309

| TEST No | DEPTH IN FEET | DESCRIPTION OF TEST HOLE MATERIAL                        |
|---------|---------------|----------------------------------------------------------|
| 1       | 0 3 +         | No 31760 157                                             |
| 2       | 0 3 +         | No 31760 157                                             |
| 3       | 0 3           | FINE SAND & GRAVEL                                       |
| 3A      | 3 4 +         | WET COARSE SAND & GRAVEL                                 |
| 4       | 0 6 +         | BLOW SAND TO BE MIXED WITH No 3 & 3A TREATED & UNTREATED |

φ No 1 and No 2 were tested for class AX concrete aggregate and had the following sieve analysis

|                      | NO 1 | NO 2 |
|----------------------|------|------|
| Percent Passing 1/2" | 100  | ~    |
| 3/8"                 | 99.8 | 100  |
| # 4                  | 99.4 | 99.1 |
| # 8                  | 98.4 | 94.8 |
| # 16                 | 95.2 | 85.8 |
| # 30                 | 77.0 | 64.5 |
| # 50                 | 30.8 | 23.3 |
| # 100                | 3.5  | 4.5  |

## SUB BASE MATERIAL PLAN

It is estimated that Sub Base Material for the project is available in the vicinity of the pit indicated in the following tabulation. Estimated quantities involved in this operation are shown below.

Alteration of the Sub Base Material Plan will be allowed only on written permission from the Department.

| MATERIAL TO BE PLACED         | SOURCE QUANTITY AVAILABLE & R VALUE | THICKNESS | QUANTITY IN TONS (CLASS 2) | OVERHAUL IN TON MILES |
|-------------------------------|-------------------------------------|-----------|----------------------------|-----------------------|
| 1929 + 66.6 to 1937 + 84      | C J WALLACE PIT                     | 8         | 1 177                      | 1 504                 |
| 1938 + 86 to 1944 + 75        | N E 1/4 Sec 8                       | 8         | 848                        | 1 213                 |
| 1944 + 91 to 1967 + 17        | T 9 S R 59 W                        | 8         | 3 205                      | 5 447                 |
| 1967 + 17 to 1983 + 26        | 1 2 Miles from Station              | 8         | 2 317                      | 4 779                 |
| 1983 + 34 to 1992 + 92        | 1929 + 66.6                         | 8         | 1 380                      | 3 184                 |
| 1993 + 08 to 2056 + 00        |                                     | 8         | 9 060                      | 27 152                |
| Est for Covering over C B C's | Quantity Available Ample            | 12        | 2 007                      | 4 080                 |
| Est for Approaches to Project | R 70                                | 8         | 1 032                      | 1 636                 |
| Est for Crest Widening        |                                     |           | 210                        | 401                   |
| Est for Road Approaches       |                                     | 4         | 440                        | 1 132                 |
| Est to Correct Irregularities |                                     |           | 2 168                      | 5 053                 |
| TOTALS                        |                                     |           | 23,844                     | 55,581                |

\*Sub Base Material thickness to be placed on this project is 8. The T thickness as computed from Curve D of Design 12 is 14. The 6 needed to complete the Sub Base to required thickness will be placed under future contract. (See Typical Section on Sheet 2)

## FENCING REQUIREMENTS

| STATION                | SIDE    | REMOVE FENCE LIN FT | BUILD B W FENCE LIN FT | B W GATE EACH |
|------------------------|---------|---------------------|------------------------|---------------|
| 1930 + 00 to 1966 + 35 | X       | 200                 |                        |               |
| 1966 + 35 to 1967 + 60 | LT      | 135                 |                        |               |
| 1967 + 60 to 1969 + 30 | LT      | 75                  |                        |               |
| 1969 + 30 to 1987 + 95 | X       | 125                 |                        |               |
| 1987 + 95 to 2039 + 70 | LT      | 260                 |                        |               |
| 2039 + 70 to 2052 + 00 | LT      | 600                 |                        |               |
| 1933 + 70 to 1967 + 60 | RT      | 450                 |                        |               |
| 1967 + 60 to 1969 + 30 | RT      | 210                 |                        |               |
| 1969 + 30 to 2040 + 65 | RT      | 70                  |                        |               |
| 2040 + 65 to 2053 + 15 | RT      | 485                 |                        |               |
| 1930 + 00 to 1930 + 15 | LT      |                     | 30                     |               |
| 1930 + 15 to 1930 + 25 | LT      |                     |                        |               |
| 1930 + 25 to 1930 + 35 | LT      |                     | 1970                   |               |
| 1930 + 35 to 1950 + 00 | LT      |                     |                        |               |
| 1950 + 00 to 1980 + 00 | LT      |                     | 3 000                  |               |
| 1980 + 00 to 1966 + 50 | LT      |                     |                        |               |
| 1966 + 50 to 1980 + 00 | LT      |                     | 3 000                  |               |
| 1980 + 00 to 2010 + 00 | LT      |                     |                        |               |
| 1996 + 00 to 1999 + 50 | LT & RT |                     |                        | 2             |
| 1999 + 50 to 2010 + 00 | LT      |                     | 3 145                  |               |
| 2010 + 00 to 2039 + 70 | LT      |                     |                        |               |
| 2039 + 70 to 2052 + 00 | LT      |                     | 605                    |               |
| 2052 + 00 to 2058 + 00 | LT      |                     |                        |               |
| 1930 + 00 to 1950 + 00 | RT      |                     | 2 065                  |               |
| 1950 + 00 to 1980 + 00 | RT      |                     | 3 000                  |               |
| 1980 + 00 to 1966 + 50 | RT      |                     |                        |               |
| 1966 + 50 to 1980 + 00 | RT      |                     | 3 000                  |               |
| 1980 + 00 to 2010 + 00 | RT      |                     |                        |               |
| 1999 + 50 to 2010 + 00 | RT      |                     | 3 115                  |               |
| 2010 + 00 to 2041 + 15 | RT      |                     |                        |               |
| 2041 + 15 to 2053 + 20 | RT      |                     | 480                    |               |
| 2053 + 20 to 2058 + 00 | RT      |                     |                        |               |
| TOTALS                 |         | 2,610               | 23,410                 | 8             |

## SNOW FENCE

| LOCATION               | SIDE | LIN FT |
|------------------------|------|--------|
| 1968 + 00 to 1972 + 00 | LT   | 400    |
| 2000 + 00 to 2005 + 00 | LT   | 500    |
| TOTAL                  |      | 900    |

## TIMBER GUARD POSTS

| LOCATION               | SPACING | NO  |
|------------------------|---------|-----|
| 1928 + 24              | Culvert | 2   |
| 1930 + 87              | Culvert | 2   |
| 1931 + 70              |         | 2   |
| 1932 + 53 to 1936 + 69 | 52 ±    | 18  |
| 1937 + 17              | Bridge  | 2   |
| 1939 + 53              | Bridge  | 2   |
| 1940 + 00 to 1944 + 32 | 54 +    | 18  |
| 1944 + 83              | C B C   | 2   |
| 1945 + 33 to 1947 + 33 | 50      | 10  |
| 1960 + 00              | Culvert | 2   |
| 1983 + 30              | C B C   | 2   |
| 1991 + 50 to 1992 + 50 | 50      | 6   |
| 1993 + 00              | C B C   | 2   |
| 1993 + 50 to 1994 + 50 | 50      | 6   |
| 2006 + 00              | Culvert | 2   |
| 2017 + 82              |         | 2   |
| 2018 + 32              | Culvert | 2   |
| 2018 + 82 to 2020 + 32 | 50      | 8   |
| 2024 + 50              | Culvert | 2   |
| 2026 + 00 to 2026 + 50 | 50      | 4   |
| 2029 + 34              |         | 2   |
| 2029 + 84              | Culvert | 2   |
| 2030 + 34 to 2030 + 84 | 50      | 4   |
| 2040 + 25              |         | 2   |
| 2041 + 42              |         | 2   |
| 2042 + 00              | Culvert | 2   |
| 2042 + 50 to 2043 + 00 | 50      | 4   |
| 2043 + 50 to 2056 + 10 | 63      | 42  |
| TOTAL                  |         | 156 |

Spacing of guard posts shall be for both sides of road in all cases.

## R O W MARKERS

| STATION     | SIDE    | NO |
|-------------|---------|----|
| 1932 + 53   | LT & RT | 2  |
| 1947 + 24.8 | LT & RT | 2  |
| 1971 + 00.0 | LT & RT | 2  |
| 2000 + 00.0 | LT & RT | 2  |
| 2028 + 00.0 | LT & RT | 2  |
| 2055 + 62.0 | LT & RT | 2  |
| TOTAL       |         | 12 |