

05AH 10

STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
Plan and Profile of State Road No. 24

ANOKA COUNTY

A POINT 1596.8' EAST OF THE
From N.W. COR. SEC. 25 - T. 31 N. - R. 23 W. To N.E. COR. SEC. 25 - T. 31 N. - R. 23 W.

GROSS LENGTH - 6,870 FEET 1.301 MILES
 LENGTH OF EXCEPTIONS - 0 FEET 0 MILES
 NET LENGTH - 6,870 FEET 1.301 MILES

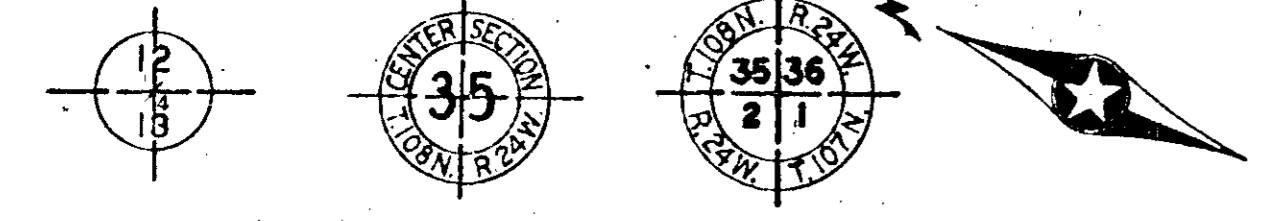
PLAN, 1 Inch = 200 Feet
 PROFILE, Horiz. 1 Inch = 200 Feet, Vert. 1 Inch = 20 Feet
 WORKING PLANS { Horiz. 1 Inch = 100 Feet
 Vert. 1 Inch = 10 Feet
 Cross-Section, 1 Inch = 10 Feet

LAYOUT
 Scale, 1 Inch = 10560 Feet

INDEX OF SHEETS

Sheet No. 1. Title Sheet and Layout Map
 " No. 2. Typical Cross-Sections and Statement
 " No. 3. Plan and Profile, Sta. 0+00 to Sta. 60+00
 " No. 4. Plan and profile Sta. 59+00 to Sta. 68+70
 " No. 5-10 Cross-Sections

| CONVENTIONAL SIGNS | ABBREVIATIONS | EXC. |
|-----------------------------|---|------------|
| STATE LINE | EXCAVATION | EXC. |
| COUNTY LINE | EARTH | E |
| TWP. OR RANGE LINE | LOOSE ROCK | L.R. |
| SECTION LINE | SOLID ROCK | S.R. |
| RIGHT OF WAY LINE | EMBANKMENT | F |
| CORPORATE OR CITY LIMITS | OVERHAUL | H |
| ROAD CENTER LINE | SURFACING | S |
| RETAINING WALL | HAND DITCHING | H.D. |
| RAILROADS | SPECIAL EXCAVATION | S.E. |
| CREEK | SPECIAL PLOWING | S.P. |
| DRY RUN | GUARD RAIL | G.R. |
| DRAINAGE DITCH | CORRUGATED METAL CULVERT | C.M. CULV. |
| POWER POLE LINE | SECTIONAL CONCRETE CULVERT | S.C. CULV. |
| TELEPHONE OR TELEGRAPH LINE | SECTIONAL CONCRETE CULVERT (Heavy Type) | H.C. CULV. |
| CULVERTS - PLAN | TON MILES | T.M. |
| WITH ENDWALLS | TELEPHONE POLE | TEL. P. |
| WITH WINGWALLS | POWER POLE | P.P. |
| DROP INLET | PLACE | P |
| FENCE LINE | INPLACE | INP. |
| GRAVEL PIT | REPLACE | REP. |
| SAND PIT | RIGHT | RT. |
| CLAY PIT | LEFT | LT. |
| ROCK QUARRY | INTERSECTION ANGLE | I.A. |
| SPRINGS | RADIUS | R |
| MARSH | TANGENT | T |
| BRUSH OR TIMBER | LENGTH OF CURVE | L.C. |
| HEDGE | POINT OF CURVE | P.C. |
| ROCK LEDGE | POINT OF TANGENT | P.T. |
| SAND | POINT OF INTERSECTION | P.I. |
| EDGE OF CUT | VERTICAL CURVE | V.C. |
| TOE OF EMBANKMENT | BENCH MARK | B.M. |
| RAILROAD R/W LINE | ELEVATION | E. |
| BUILDING (One Story Frame) | ACRES | A. |



END C.P. 56-01-01
 STA. 68+70

BEGIN C.P. 56-01-01
 STA. 0+00

| | |
|--|------|
| DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS | |
| RECOMMENDED FOR APPROVAL: | |
| DISTRICT ENGINEER | DATE |
| APPROVED: | |
| DIVISION ENGINEER | DATE |

PLANNED BY E.S. VEVEA 19 56
 COUNTY ENGINEER FOR ANOKA COUNTY

RECOMMENDED FOR APPROVAL _____ 19 _____
 DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL _____ 19 _____
 ENGINEER OF COUNTY DIVISION

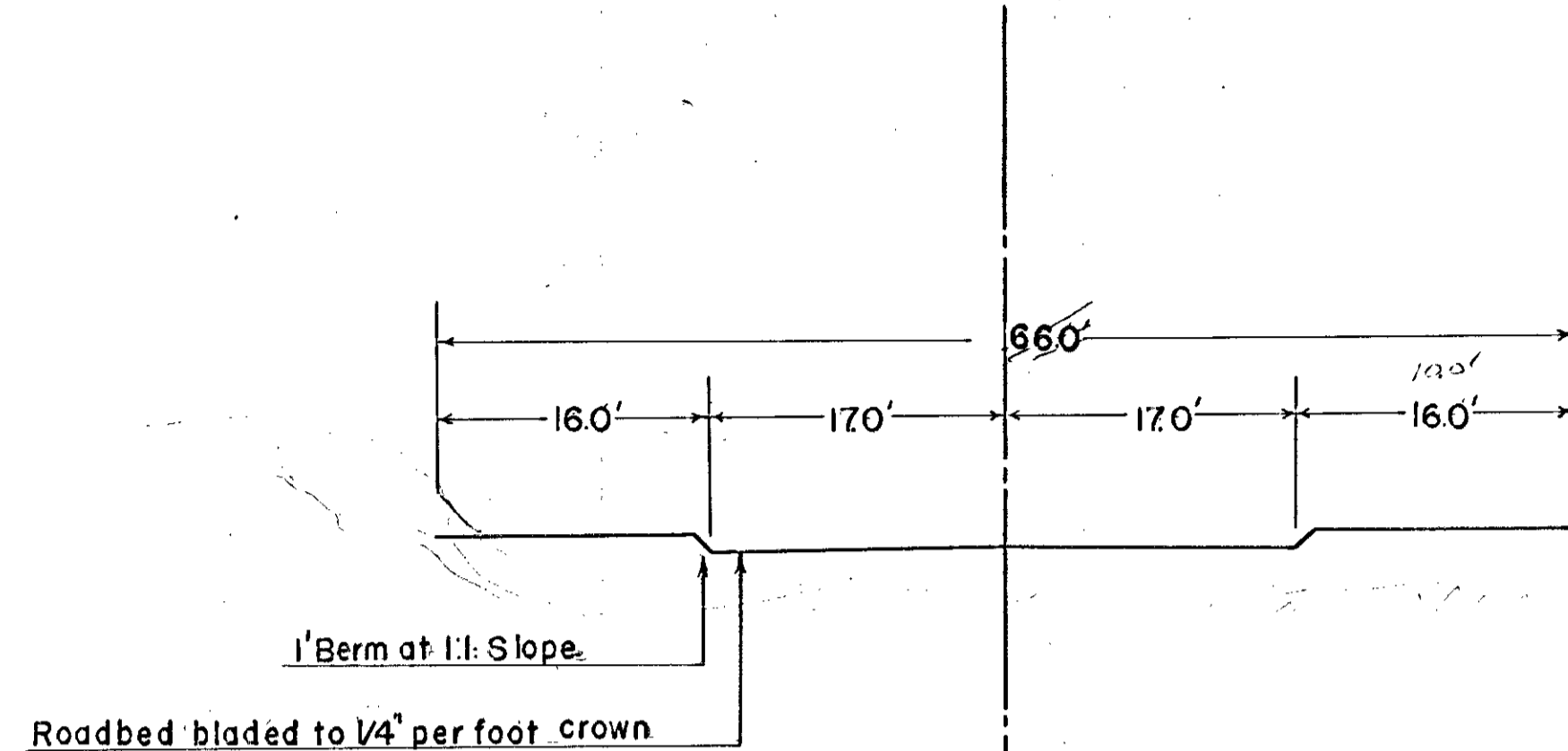
APPROVED _____ 19 _____
 ENGINEER OF PLANS AND SURVEYS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | SEC. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|------|-------------|-----------|--------------|
| 4 | MINN. | | | | | |

ESTIMATED QUANTITIES

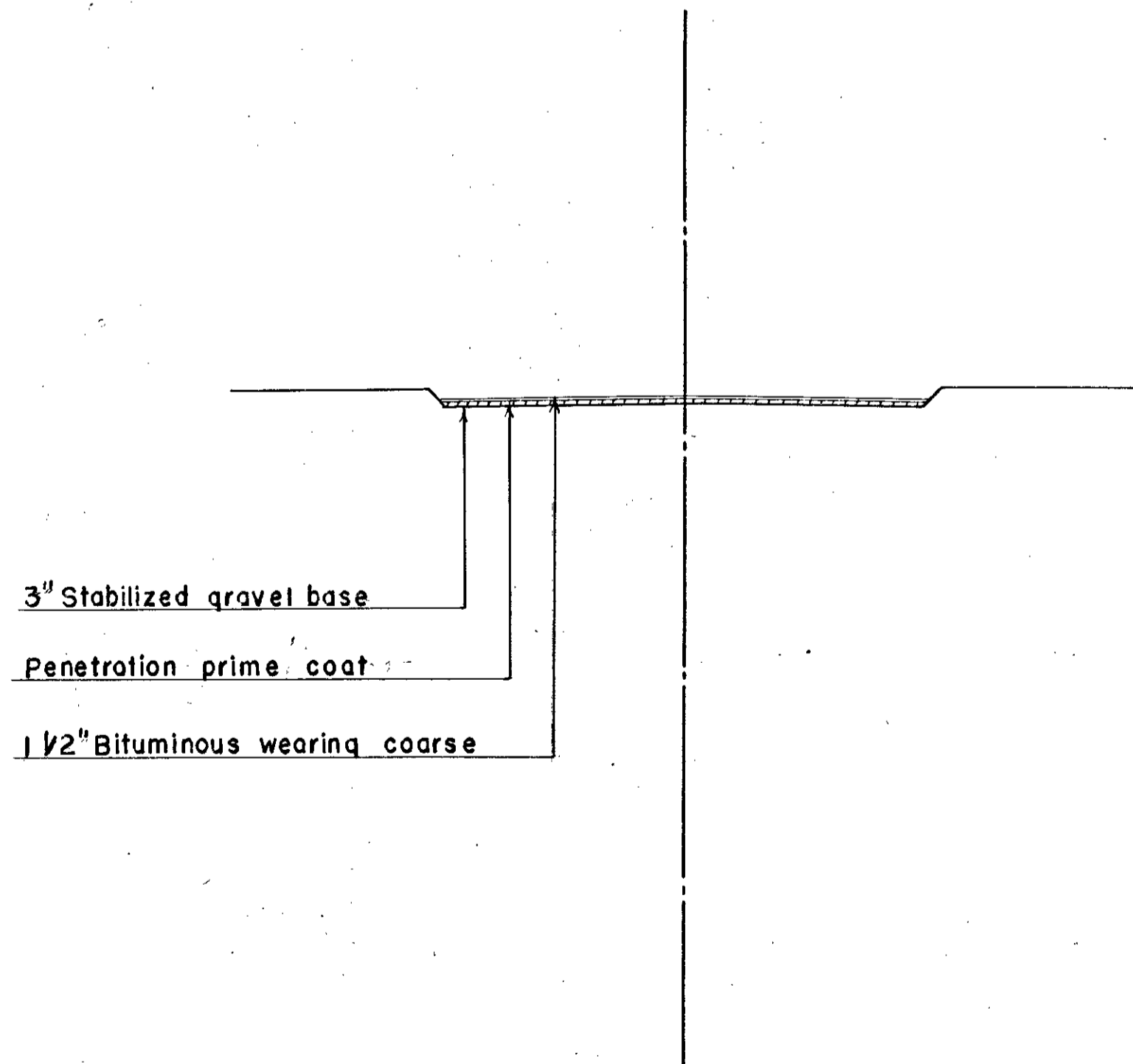
| SPECIFICATION NO. | ITEM | UNIT | TOTAL ESTIMATED QUANTITIES |
|-------------------|----------------------------------|----------|----------------------------|
| 2101.501 | CLEARING | ACRE | 0.68 |
| 2101.502 | CLEARING | TREE | 2 2 |
| 2101.506 | GRUBBING | ACRE | 0.68 |
| 2101.507 | GRUBBING | TREE | 1 2 12 |
| 2104.510 | REMOVE FENCE | LINE FT. | 334 |
| 2105.503 | CLASS "C" EXCAVATION | CU. YDS. | 7,568 |
| 2501.511-12 | FURNISH & INSTALL 12" CMP. CULV. | LINE FT. | 220 |
| 2202.527 | GRAVEL BASE IMPLACE | CU. YD. | 2,163 |
| 2130.501 | WATER | M-GAL. | 43.3 |
| 2321.501 | BITUMINOUS MAT'L. FOR PRIME | GAL. | 7,786 |
| 2321.502 | " " " " TACK | GAL. | 1,298 |
| 2321.503 | " " " " MIXTURE | GAL. | 30,228 |
| 2321.507 | AGGREGATE | CU. YD. | 1,145 |

TYPICAL GRADING SECTIONS



SPECIAL DETAILS

TYPICAL BASE & SURFACE SECTIONS



STANDARD DETAIL PLATES

Standard Detail Plates issued October 1, 1947 and approved by the Public Roads Administration April 1, 1948, with revisions Approved Feb. 24, 1949, shall govern.

| PLATE NO. | STANDARD DETAIL PLATES |
|-----------|--|
| 9000 | APPROACHES & ENTRANCES |
| 9001 | STABILIZED BASE & BITUMINOUS SURFACING ON APPROACHES & ENTRANCES |
| | |
| | |
| | |
| | |

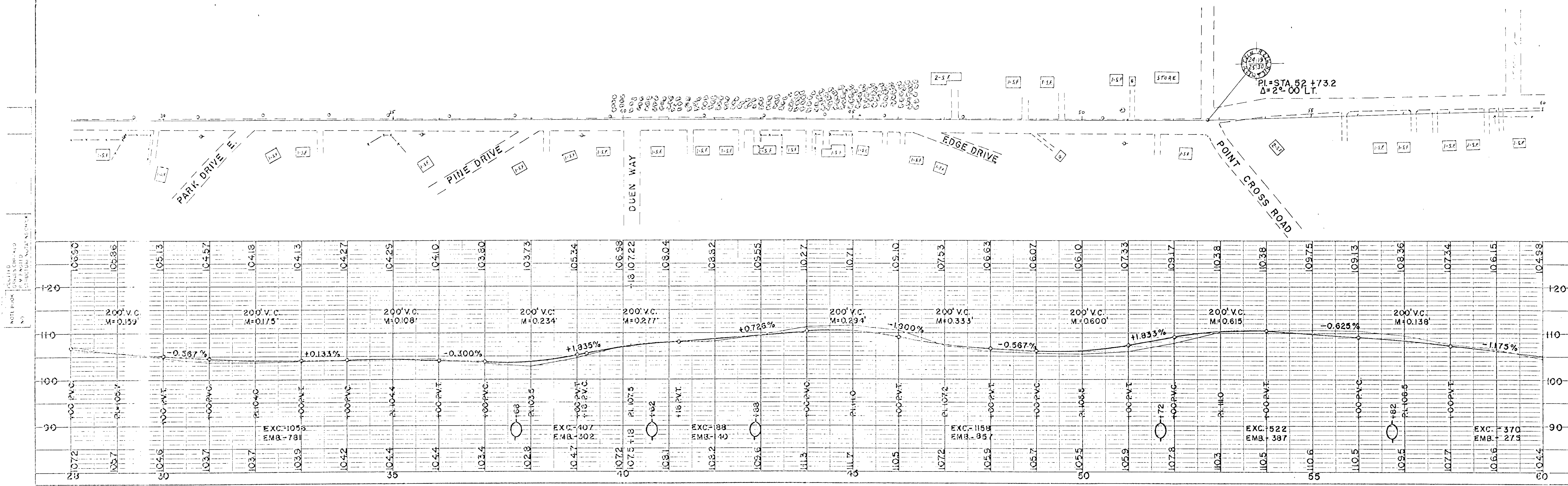
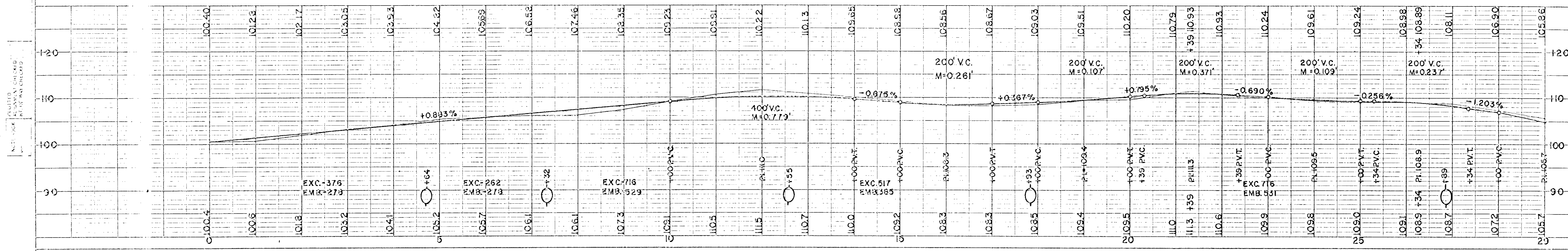
BASIS FOR COMPUTATION OF QUANTITIES
 ESTIMATE QUANTITIES INCLUDE MAT'L. FOR ENTRANCES & APPROACHES TO BE USED AS DIRECTED BY THE ENGINEER.
 3" DEPTH BASE CONSTRUCTION - 28.7 CU. YDS. PER STATION - SPEC. 3138 (CLASS 5)
 WATER FOR COMPACTION - 20 GALLONS PER CU. YD. OF BASE CONSTRUCTION.
 BITUMINOUS MAT'L. FOR PRIME COAT - 0.30 GAL. PER SQ. YD. (MC-0 OR MC-1)
 " " " TACK COAT - 0.05 GAL. PER SQ. YD. (MC-2 OR MC-3)
 " " " MIXTURE - 110 " " " (MC-2 OR MC-3)
 AGGREGATE - 150 LBS. PER SQ. YD. - SPEC. 3139 (BA-2)
 GRAVEL MATERIAL ASSUMED TO WEIGH 2800 LBS. PER CU. YD.

STA. 16+00 - LT & RT thru berm
 F&I - 2-12"x10' C.M.P. CULV.

BEGIN PROJECT
 STA. 0+00

LEXINGTON
 AVE. C.A.R. NO. 40

PI = STA. 26+33.5
 $\Delta = 0^{\circ} 08' LT.$



PI = STA. 52+73.2
 $\Delta = 2^{\circ} 00' LT.$

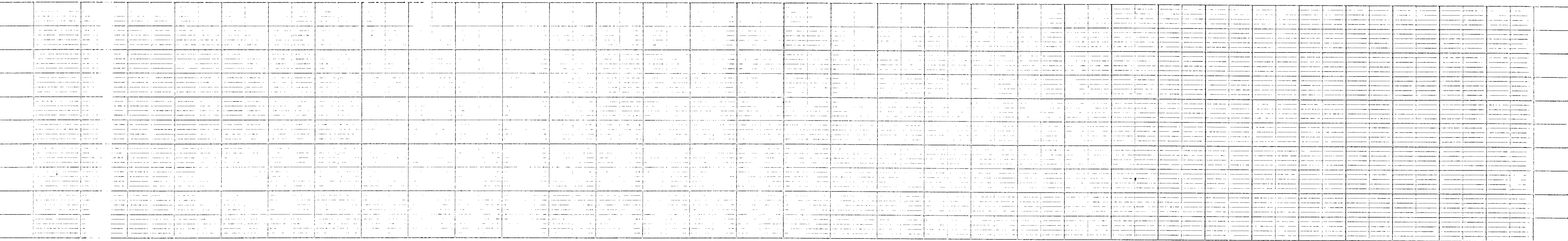
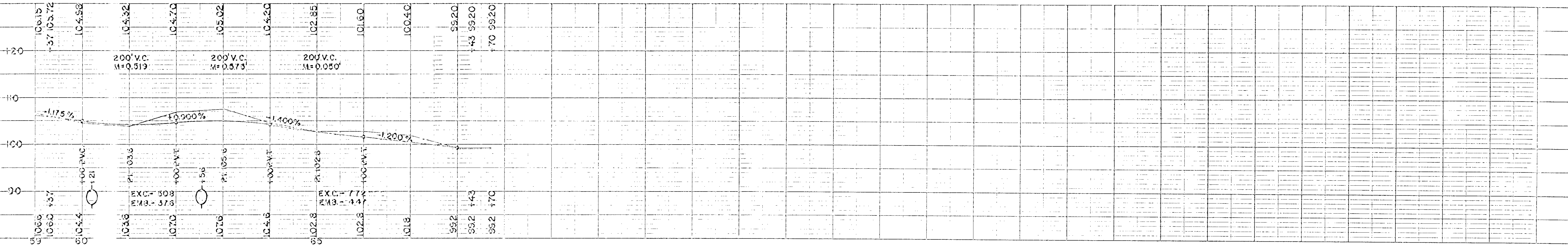
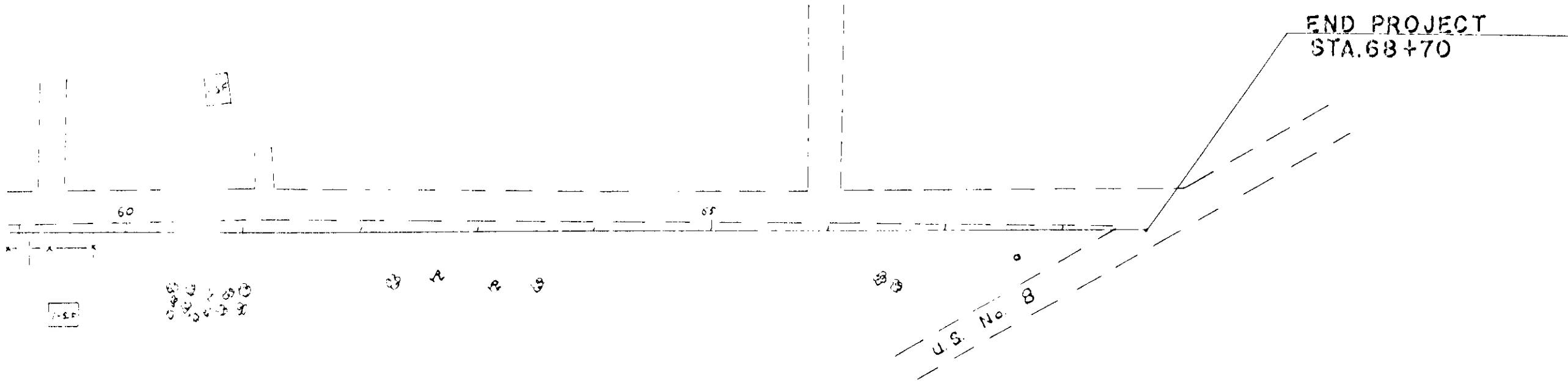
NOT FOR CONSTRUCTION
 CHECKED BY: [Signature]
 DATE: [Date]

NOT FOR CONSTRUCTION
 CHECKED BY: [Signature]
 DATE: [Date]

PLATE 7 - PLAN - PROFILE C.P.R. & F
 CHUILES DRIVING COMPANY, INC.

C.P. 56-01-01
 C.A.R. 24 NO. ROAD
 CIRCLE PINES

SHEET 3 OF 10



| EXCAVATION | | EMBANKMENT | |
|------------|----------|------------|------------|
| SUB-TOTALS | CU. YDS. | CU. YDS. | SUB-TOTALS |

| EXCAVATION | | EMBANKMENT | |
|------------|----------|------------|------------|
| SUB-TOTALS | CU. YDS. | CU. YDS. | SUB-TOTALS |

5+00 105.7

12+00 110.5

4+00 109.1

10+00 108.1

3+00 108.2

9+00 107.3

7+00 106.8

8+00 106.1

1+00 100.5

7+00 105.1

0+00 100.4

6+00 105.7

| EXCAVATION | | EMBANKMENT | |
|------------|----------|------------|------------|
| SUB-TOTALS | CU. YDS. | CU. YDS. | SUB-TOTALS |

| EXCAVATION | | EMBANKMENT | |
|------------|----------|------------|------------|
| SUB-TOTALS | CU. YDS. | CU. YDS. | SUB-TOTALS |

17700 109.4

25100 109.0

18100 108.5

24100 109.8

17700 108.3

23100 109.9

16700 108.5

22100 110.6

15700 109.2

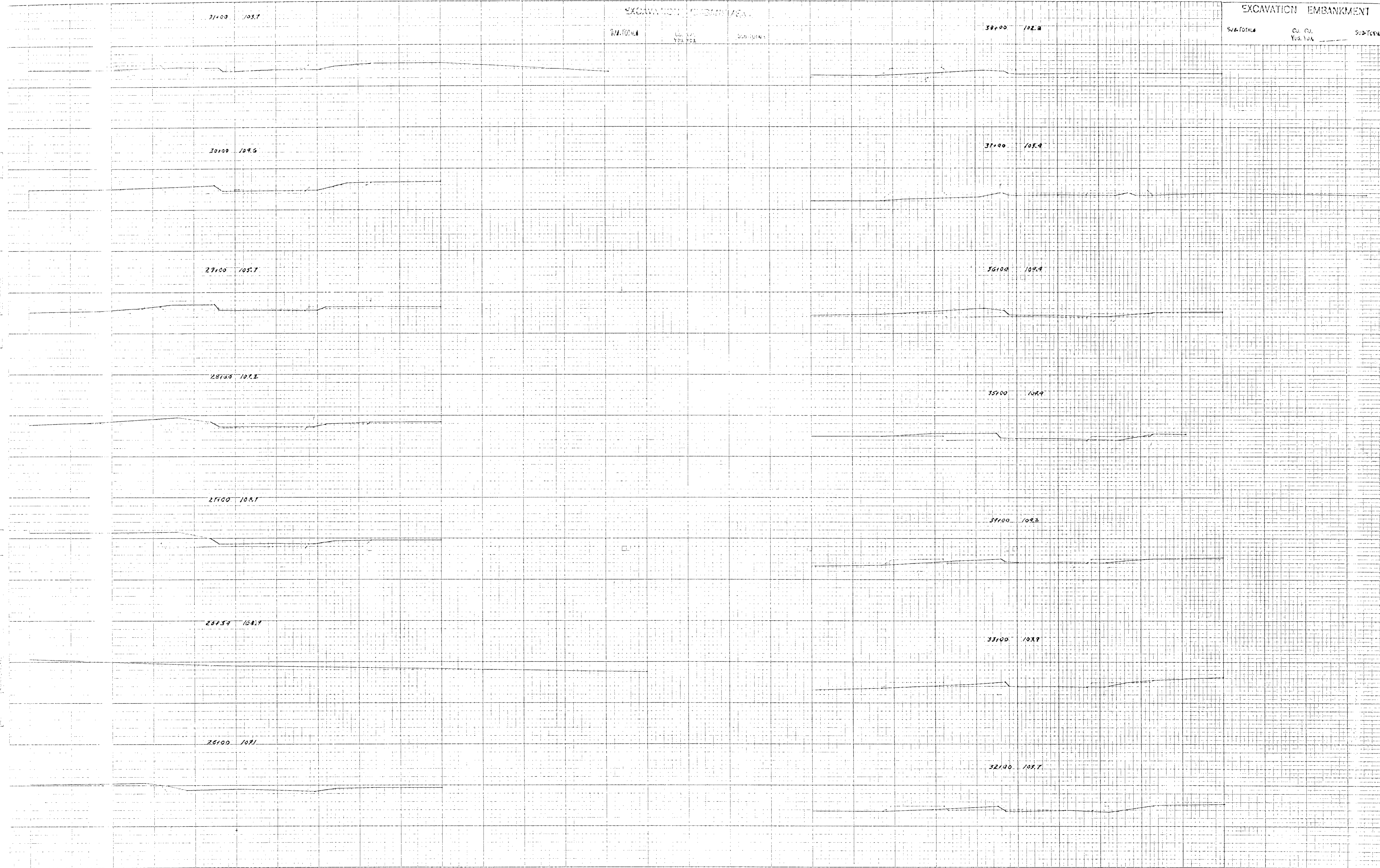
21139 111.3

14700 110.0

20100 110.0

13700 110.7

20100 109.5



EXCAVATION EMBANKMENT

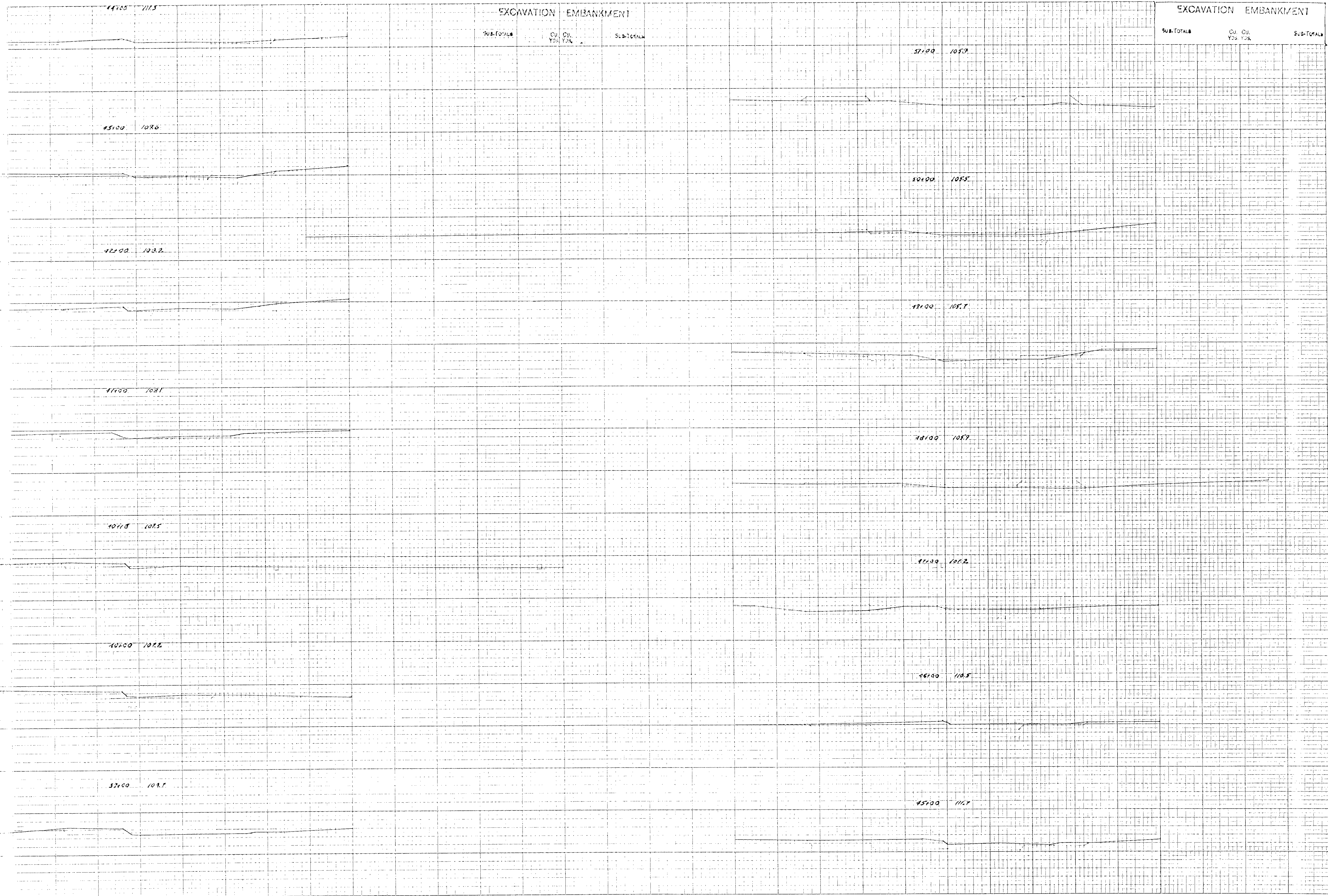
SUB-TOTAL CU. CU. SUB-TOTAL

Yds. 100 Yds. 100

EXCAVATION EMBANKMENT

SUB-TOTAL CU. CU. SUB-TOTAL

Yds. 100 Yds. 100



EXCAVATION EMBANKMENT

EXCAVATION EMBANKMENT

SUB-TOTALS CU. CU. SUB-TOTALS
YDS. YDS.

SUB-TOTALS CU. CU. SUB-TOTALS
YDS. YDS.

58+00 107.7

EXCAVATION EMBANKMENT

Sub-Totals Cu. Cu. Sub-Totals
Yds. Yds.

64+00 109.6

EXCAVATION EMBANKMENT

Sub-Totals Cu. Cu. Sub-Totals
Yds. Yds.

57+00 109.5

63+00 102.6

56+00 105

62+00 107.0

55+00 110.6

61+00 103.8

54+00 108.5

60+00 108.4

53+00 110.5

59+37 106.0

52+00 002.5

58+00 108.6

EXCAVATION EMBANKMENT

SUB-TOTALS CU. YDS. SUB-TOTALS

68170 192.2

68173 192.2

68180 192.2

68180 192.8

68180 192.3

68180 192.3

