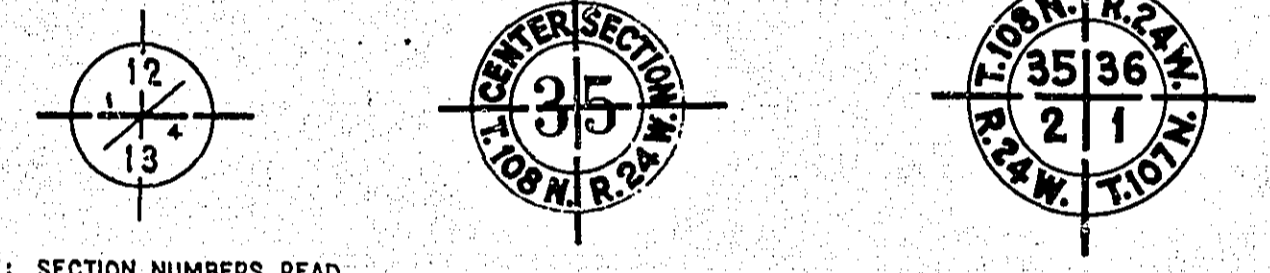


**CONVENTIONAL SIGNS**

STATE LINE	-----	TIMBER	-----
COUNTY LINE	-----	BRUSH	-----
TOWNSHIP OR RANGE LINE	-----	ORCHARD	-----
SECTION LINE	-----	ROCK LEDGE	-----
QUARTER LINE	-----	SAND	-----
SIXTEENTH LINE	-----	EDGE OF CUT	-----
RIGHT-OF-WAY LINE	-----	TOE OF EMBANKMENT	-----
PRESENT ROAD 1/2 LINE	-----	CATCH BASIN	-----
LIMITED ACCESS	-----	MANHOLE	-----
PROPERTY LINE (Except Land Lines)	-----	DROP INLET	-----
VACATED PLATTED PROPERTY	-----	FIRE HYDRANT	-----
CORPORATE OR CITY LIMITS	-----	ARC LAMP	-----
TRUNK HIGHWAY CENTER LINE	-----	OTHER LAMPS (State Kind)	-----
RETAINING WALL	-----	RAILROAD CROSSING SIGN	-----
STEAM RAILROAD	-----	RAILROAD CROSSING BELL	-----
ELECTRIC RAILROAD	-----	ELECTRIC WARNING SIGN	-----
RAILROAD RIGHT-OF-WAY LINE	-----	CROSSING GATE	-----
CREEK	-----	CATTLE GUARD	-----
RAPIDS OR WATERFALL	-----	OVERHEAD (Highway Over)	-----
DRY RUN	-----	UNDERPASS (Highway Under)	-----
DRAINAGE DITCH	-----	ABUTMENT, WALL & PIER	-----
HIGH TENSION LINE	-----	BRIDGE	-----
POWER POLE LINE	-----	CULVERT	-----
TELEPHONE OR TELEGRAPH LINE	-----	BUILDING (One Story Frame)	-----
TELEPHONE CONDUIT	-----	C-CONCRETE S-STONE T-TILE B-BRICK ST-STUCCO	-----
GUARD RAIL	-----	HEDGE	-----
WIRE FENCE	-----	IRON PIPE	-----
RAILROAD SNOW FENCE	-----	STONE MONUMENT	-----
BOARD OR HIGHWAY SNOW FENCE	-----	WOOD STAKE OR HUB	-----
STONE WALL OR FENCE	-----	MEANDER CORNER	-----
GAS MAIN	-----		
WATER PIPE	-----		
SEWER PIPE	-----		
DRAIN TILE	-----		
GRAVEL PIT	-----		
SAND PIT	-----		
CLAY PIT	-----		
ROCK QUARRY	-----		
SPRINGS	-----		
MARSH	-----		



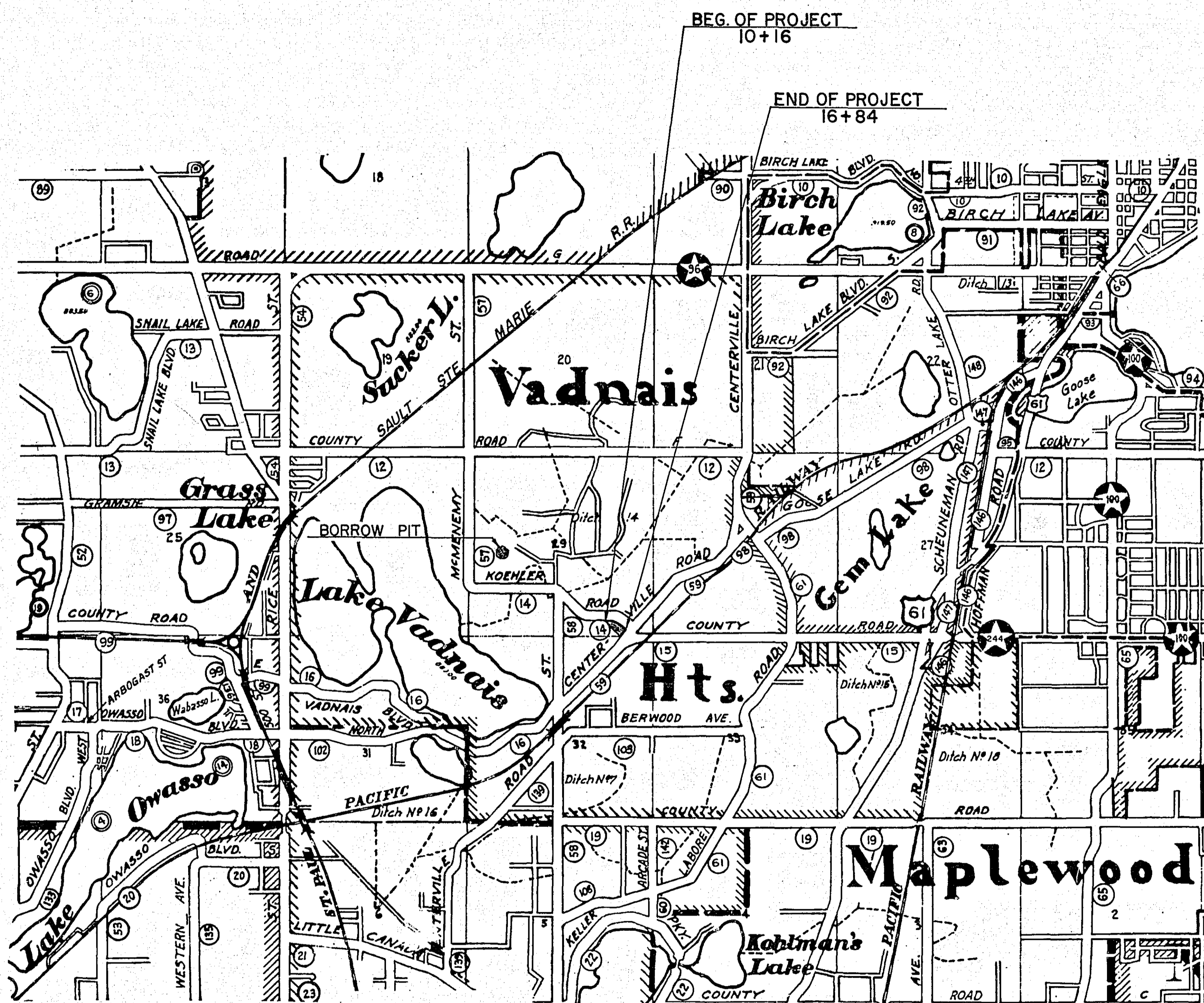
NOTE: SECTION NUMBERS READ FROM THE SOUTH

**PIT DATA**

BORROW PIT NO. ....	Located in	3790 MC MENEMY STREET
	Dead Haul	
PIT NO. ....	Located in	
	Dead Haul	
PIT NO. ....	Located in	
	Dead Haul	
PIT NO. ....	Located in	
	Dead Haul	

**SPECIFICATIONS**

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED MAY 1, 1959 SHALL GOVERN.



**OFFICE OF COUNTY ENGINEER  
RAMSEY COUNTY  
CONSTRUCTION PLAN FOR GRADING AND SURFACING  
KOEHLER ROAD**

FROM A POINT APPROX. 320' NO. AND 1228' W. OF THE SE. COR. OF SEC. 29, T.30 N., R.22 W.  
TO A POINT ON THE SO. LINE OF SAID SEC., 763.36' W. OF THE SE. COR. OF SAID SEC. 29.  
(LINE REVISION)

PROJECT NO. S.A.P. 62-614-01

GROSS LENGTH	668 FEET	0.13 MILES
BRIDGES-LENGTH	FEET	MILES
EXCEPTIONS-LENGTH	FEET	MILES
NET LENGTH	668 FEET	0.13 MILES

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN SHEET
3-7	CROSS SECTIONS

SCALES

PLAN, 1 inch = 100 Feet
PROFILE, Horiz. 1 inch = 100 Feet. Vert. 1 inch = 10 Feet.
WORKING PLANS - Horiz. 1 inch = 100 Feet
Vert. 1 inch = 10 Feet
Cross-Sections 1 inch = 10 Feet
LAYOUT, 1 inch = 2640 Feet

DESIGN SPEED 30 M.P.H.  
TRAFFIC 305 V.P.D.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
*Harry C. Bronson* REG. NO. 818 DATE 7/12/60  
COUNTY ENGINEER

RECOMMENDED FOR APPROVAL *Harry C. Bronson* DATE 7/12/60  
COUNTY ENGINEER

APPROVED *John J. ...* DATE 7/18/60  
CHAIRMAN OF RAMSEY COUNTY BOARD

**MINNESOTA STATE HIGHWAY DEPARTMENT**

RECOMMENDED FOR APPROVAL *John J. ...* DATE 6/20/60  
Deputy DISTRICT ENGINEER

APPROVED *John J. ...* DATE 6/21/60

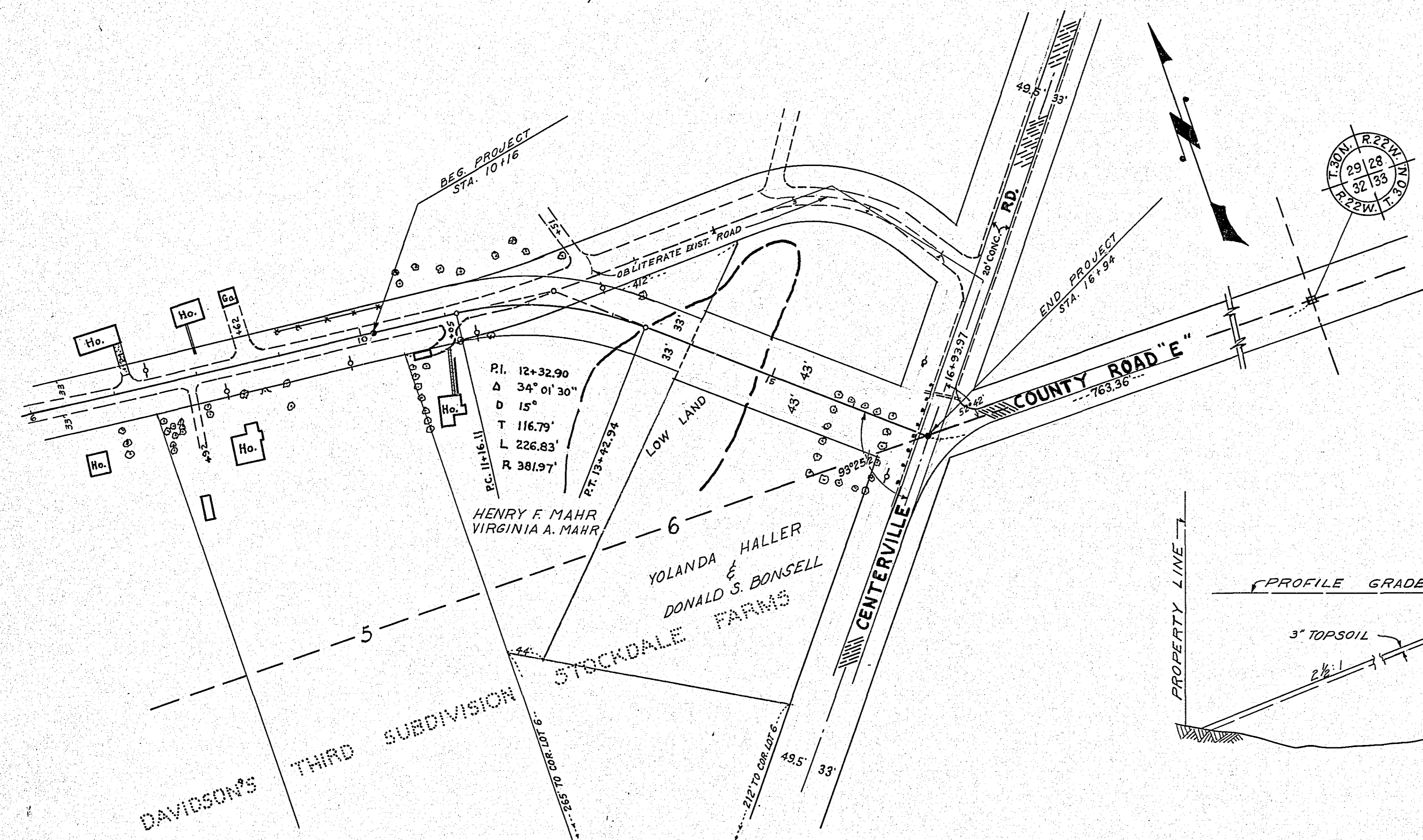
APPROVED *John J. ...* DATE 6-21-60  
STATE AID ENGINEER

MICRO-FILMED

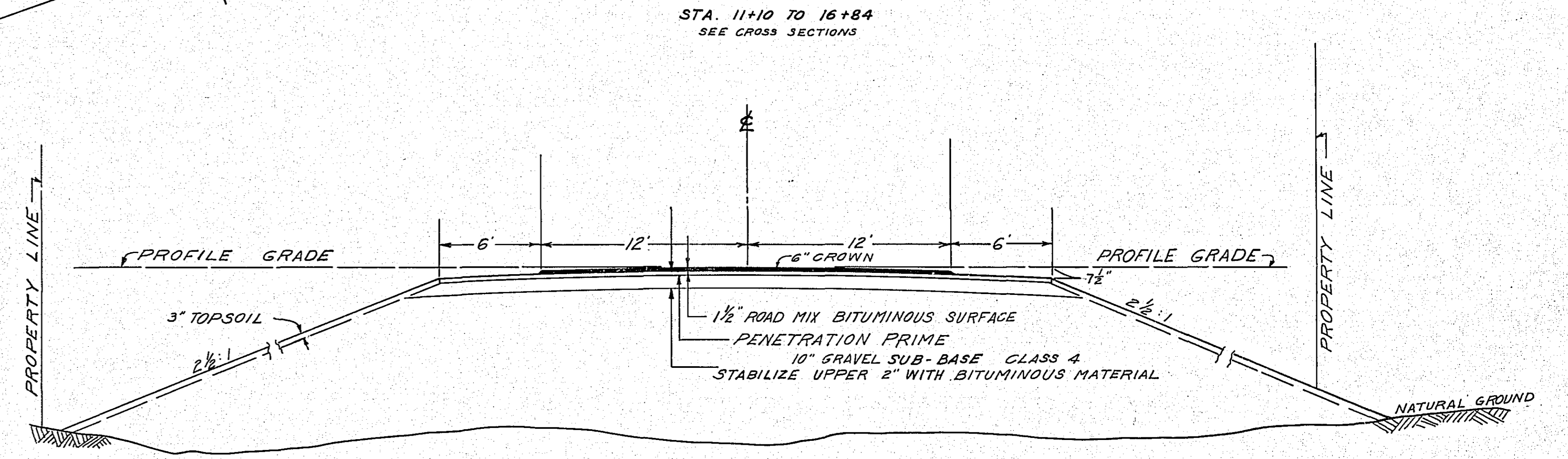
PLAN  
 SURVEYED, PLOTTED,  
 NOTE BOOK ALIGNMENT CHECKED,  
 RT. OF WAY CHECKED.  
 NO.

PROFILE  
 SURVEYED, PLOTTED,  
 NOTE BOOK GRADES CHECKED,  
 STRUCTURE NOTATIONS CHECKED.  
 NO.

STA. 14+50 ±  
 F&I 24' x 80' C.M.P. CULVERT



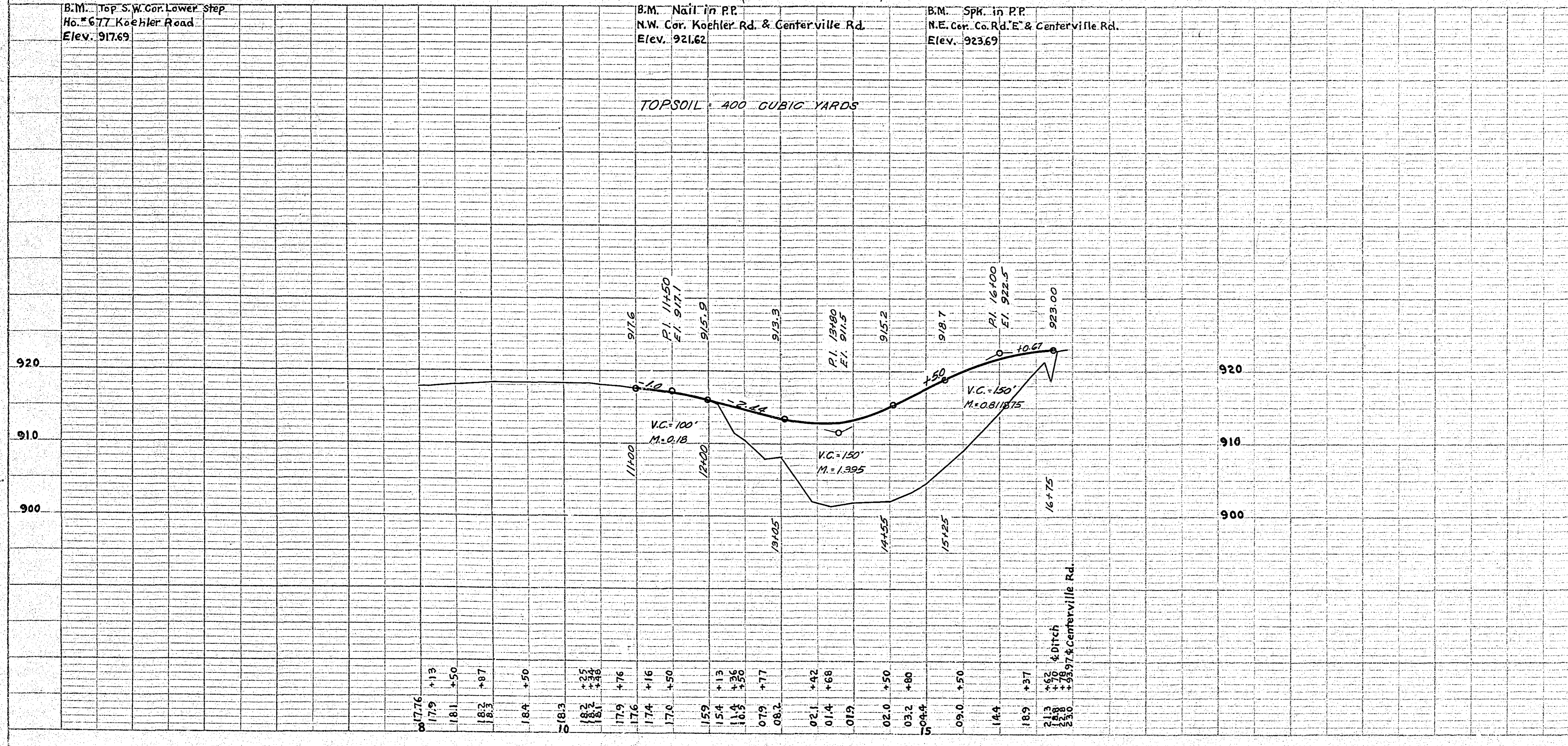
TYPICAL SECTION



NOTE: THE PAVEMENT CROWN SHALL BE REMOVED ON ALL CURVES THAT ARE SUPERELEVATED. MAXIMUM SUPER ELEVATION 1.0.

B.M. Top S.W. Cor. Lower Strip Ho. # 677 Koehler Road Elev. 917.69  
 B.M. Nail in P.P. N.W. Cor. Koehler Rd. & Centerville Rd. Elev. 921.62  
 B.M. Spk. in P.P. N.E. Cor. Co. Rd. 'E' & Centerville Rd. Elev. 923.69

TOPSOIL - 400 CUBIC YARDS



ESTIMATED QUANTITIES			
SPEC. NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
2101 502	CLEARING	TREE	11
2101 507	GRUBBING	TREE	10
2101 501	CLASS "A" EXCAVATION	C.Y.	2848
2105 506	BORROW EXCAVATION "CLASS A"	C.Y.	7516
2201 527	GRAVEL SUB-BASE IN PLACE (CLASS 4)	C.Y. (V.M.)	650
2208 501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	682
2208 503	BITUMINOUS MATERIAL FOR MIXTURE	GAL.	2302
2321 503	BITUMINOUS MATERIAL FOR MIXTURE	GAL.	1160
2321 507	AGGREGATE	C.Y. (V.M.)	75
2501 511-24	F&I C.M.P. CULVERTS	L.F.	80
2574 501	ROADSIDE SEEDING	ACRE	2.0
2574 511	SEED (CLASS 16)	POUND	120

STATION-ELEVATION

EXCAVATION | EMBANKMENT

STATION-ELEVATION

EXCAVATION | EMBANKMENT

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

FINAL SURVEY PLOTTED TEMPLATE NOTE BOOK NO. . . . .

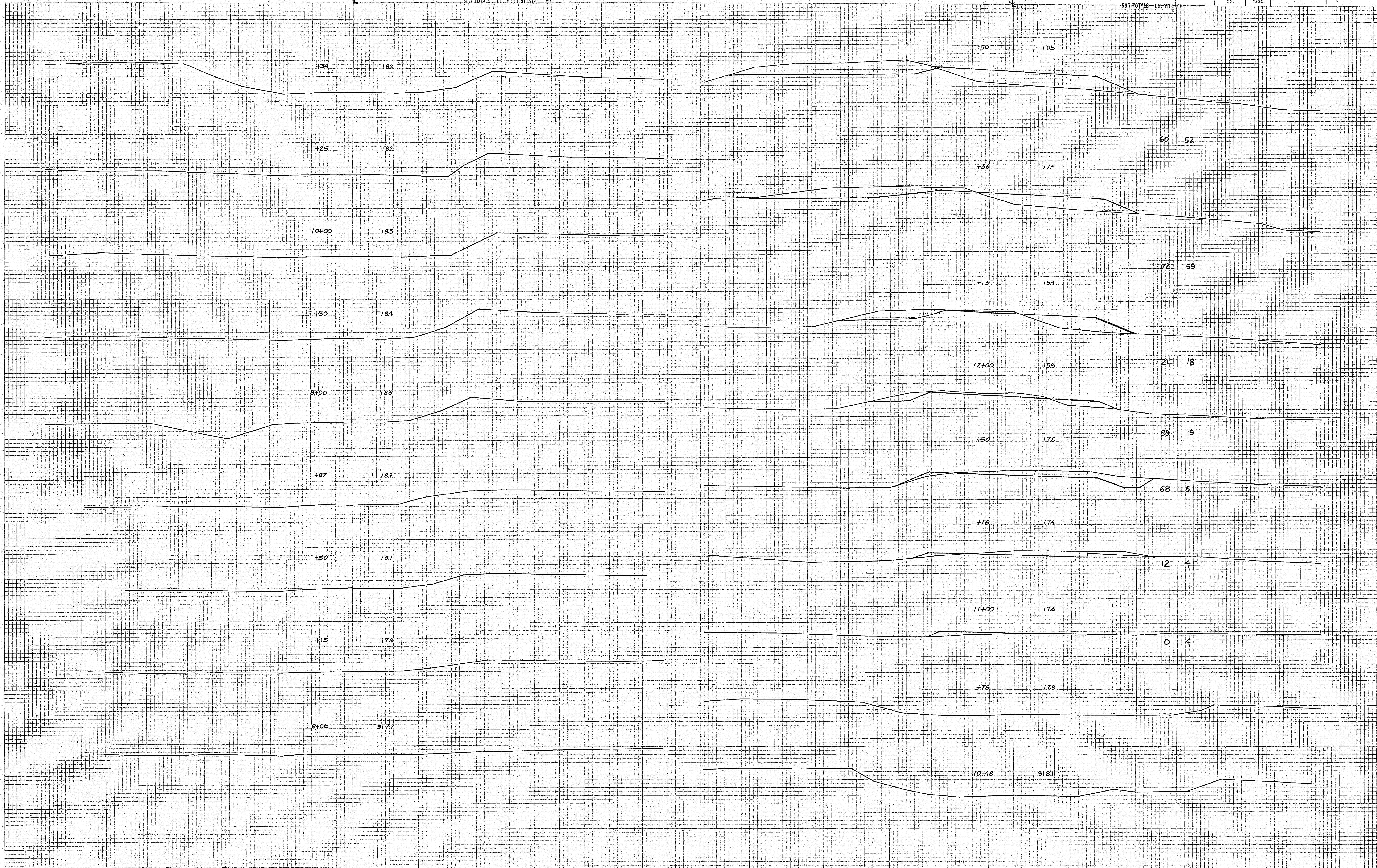
BY DATE

ORIGINAL SURVEY PLOTTED TEMPLATE NOTE BOOK NO. . . . .

BY DATE

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

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



STATION-ELEVATION  
±

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

STATION-ELEVATION  
±

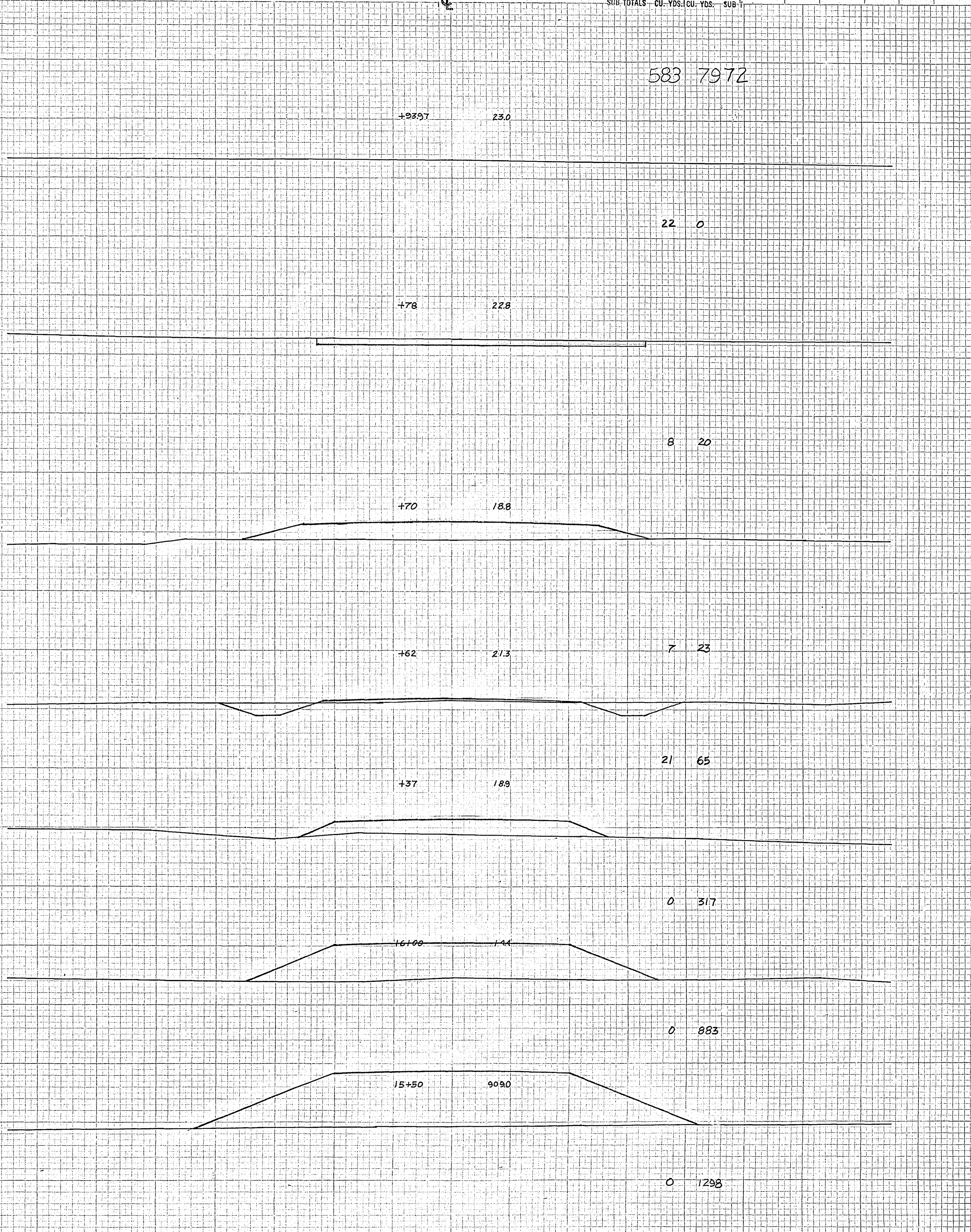
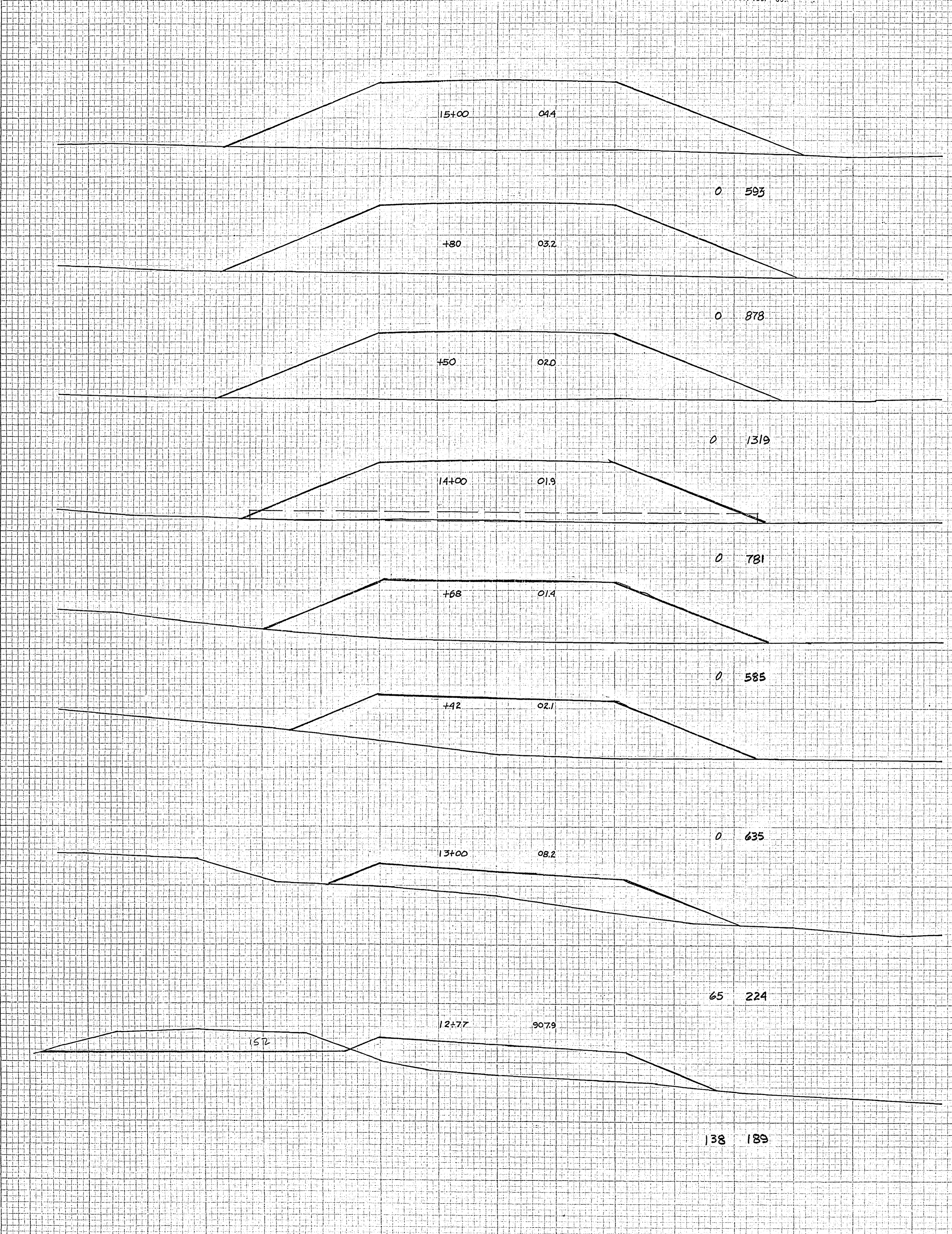
EXCAVATION | EMBANKMENT  
SUB-TOTALS CU. YDS. CU. YDS. SUB-TOTALS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	MINN.				

583 7972

DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
FINAL SURVEY SURVEYED PLOTTED  
NOTE BOOK NO. \_\_\_\_\_  
TEMPERATURE \_\_\_\_\_  
AREAS CHECKED \_\_\_\_\_

DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
ORIGINAL SURVEY SURVEYED PLOTTED  
NOTE BOOK NO. \_\_\_\_\_  
TEMPERATURE \_\_\_\_\_  
AREAS CHECKED \_\_\_\_\_



STATION-ELEVATION

EXCAVATION | EMBANKMENT

SUB TOTALS CU. YDS. CUT

STATION-ELEVATION

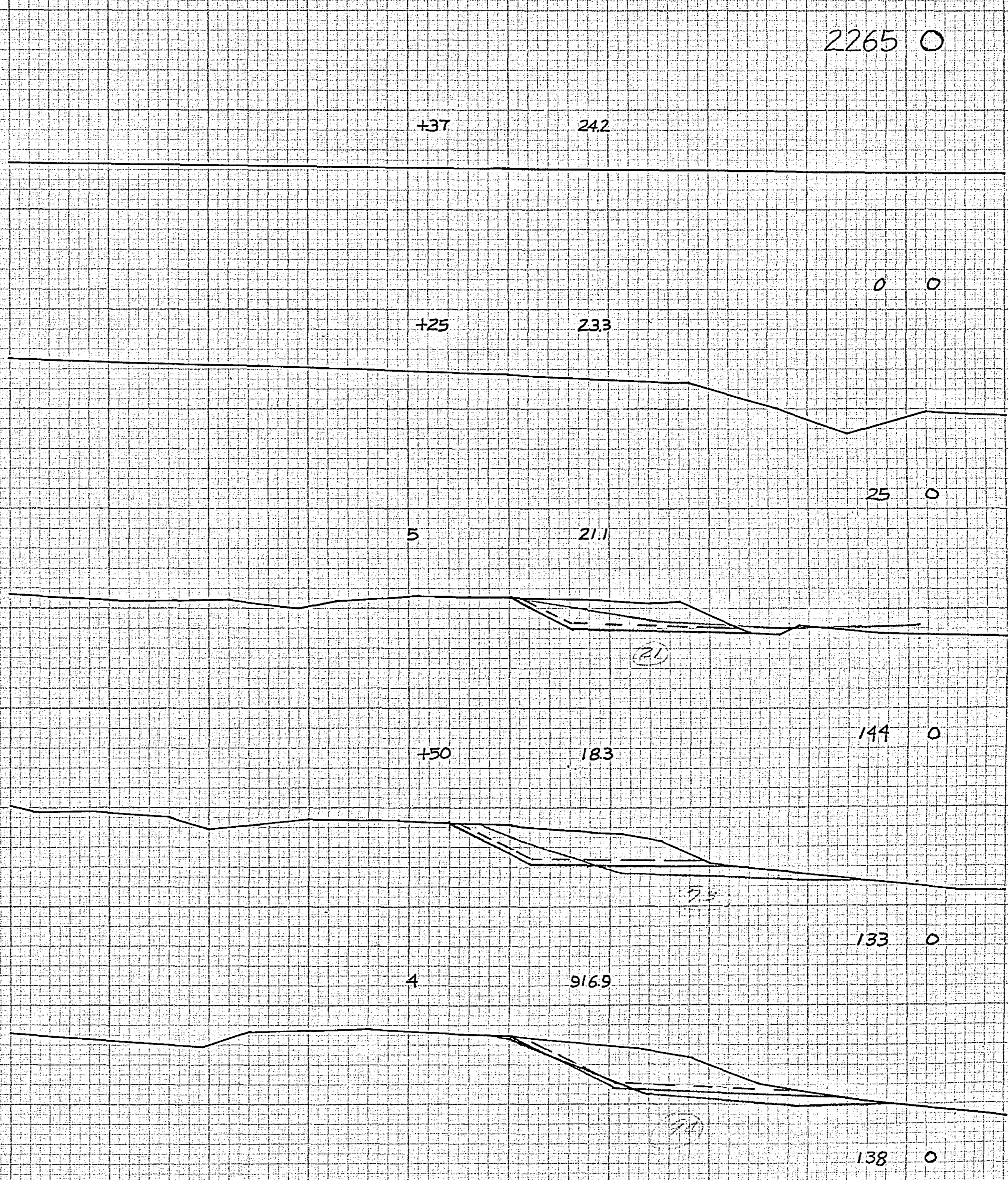
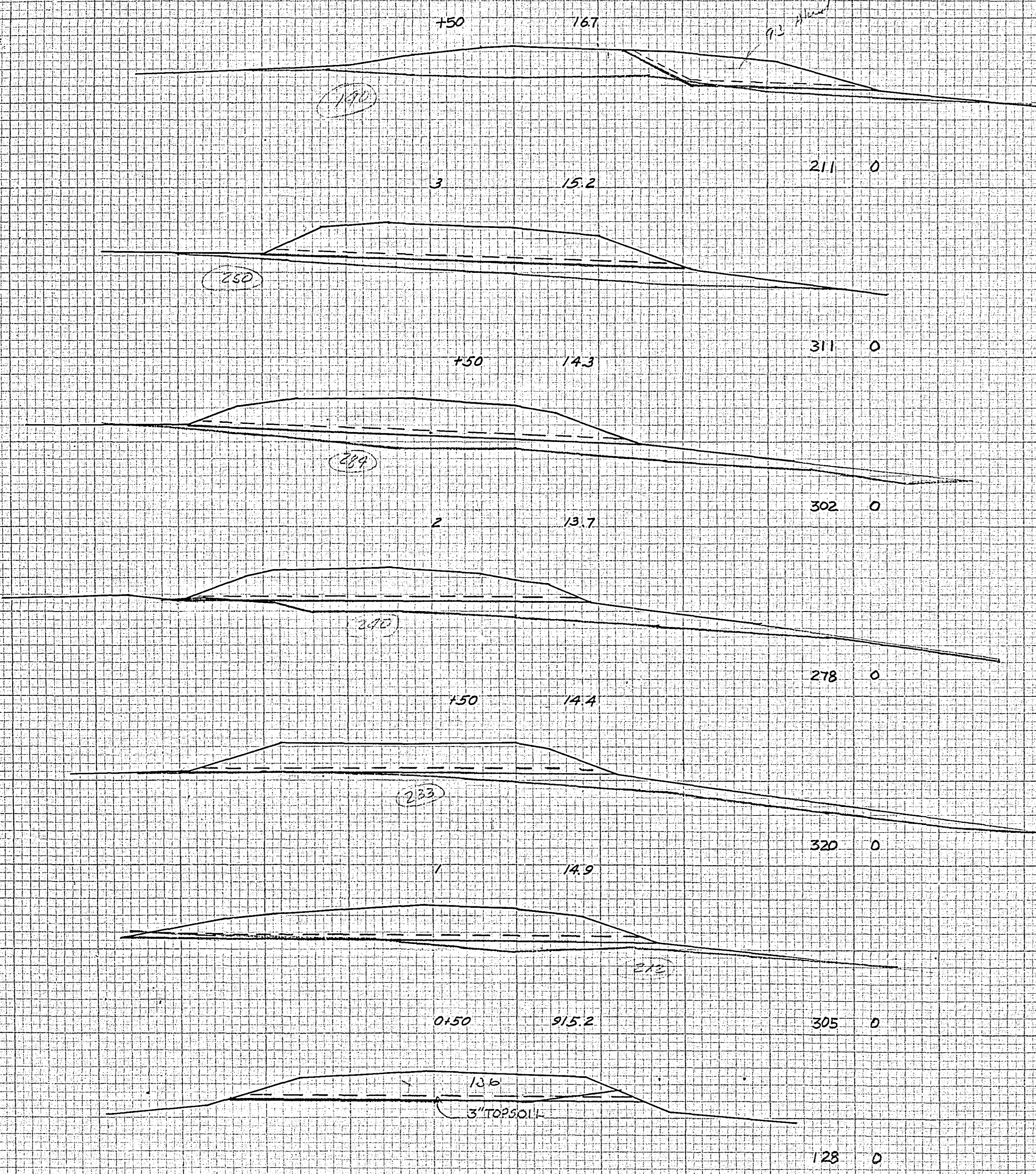
EXCAVATION | EMBANKMENT

SUB TOTALS CU. YDS. CUT

FED. ROAD DIST. No.	STATE	FEDERAL PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5N	MINN.				

FINAL SURVEY  
 SURVEYED  
 PLOTTED  
 TEMPLATE  
 NOTE BOOK  
 AREAS CHECKED  
 NO.

ORIGINAL SURVEY  
 SURVEYED  
 PLOTTED  
 TEMPLATE  
 NOTE BOOK  
 AREAS CHECKED  
 NO.



EXISTING ROAD

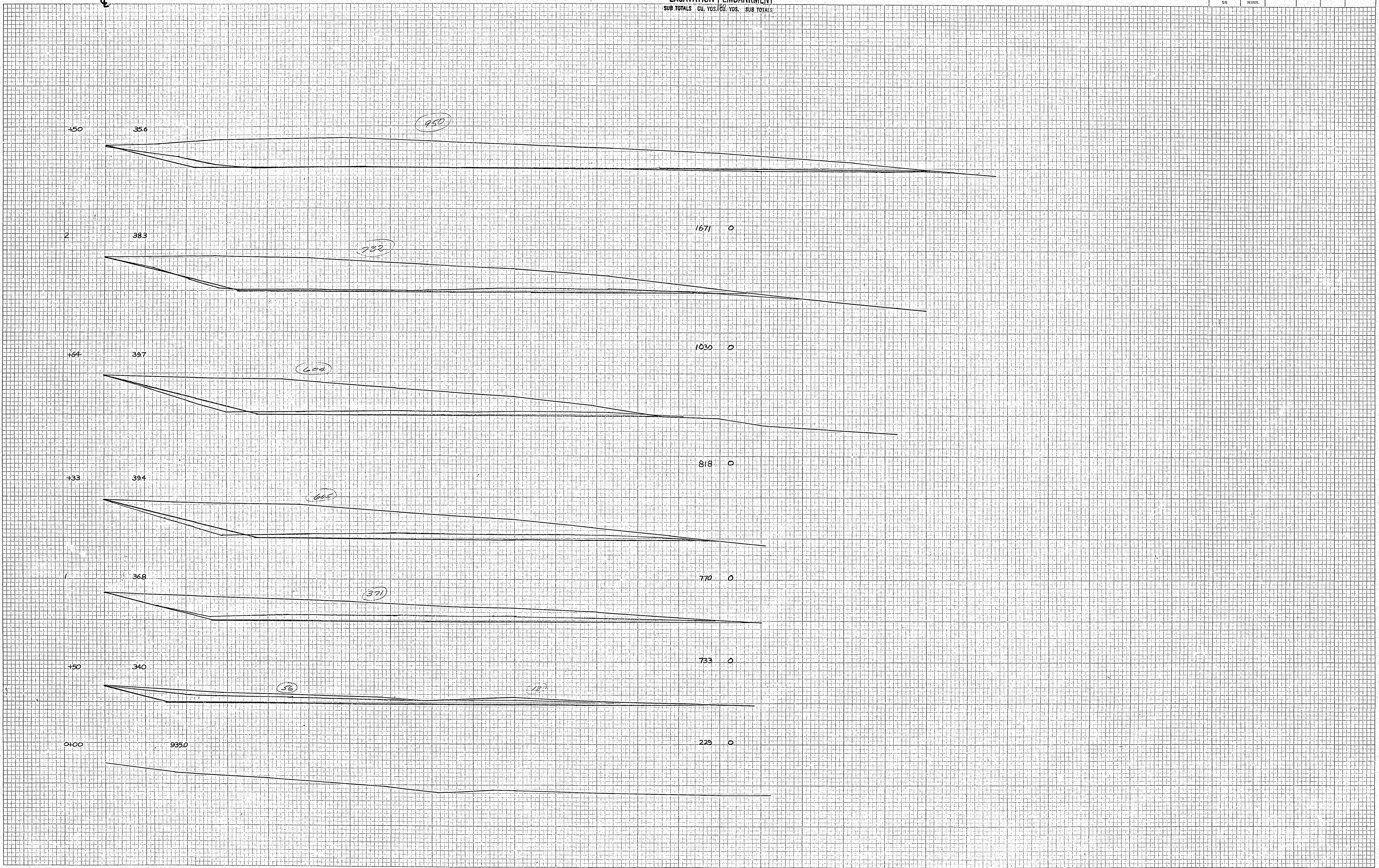
STATION-ELEVATION

EXCAVATION | EMBANKMENT

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5N	MINN.				

FINAL SURVEY BY DATE  
 REVISIONS BY DATE  
 NOTE BOOK NO. AREAS CHECKED

ORIGINAL SURVEY BY DATE  
 REVISIONS BY DATE  
 NOTE BOOK NO. AREAS CHECKED



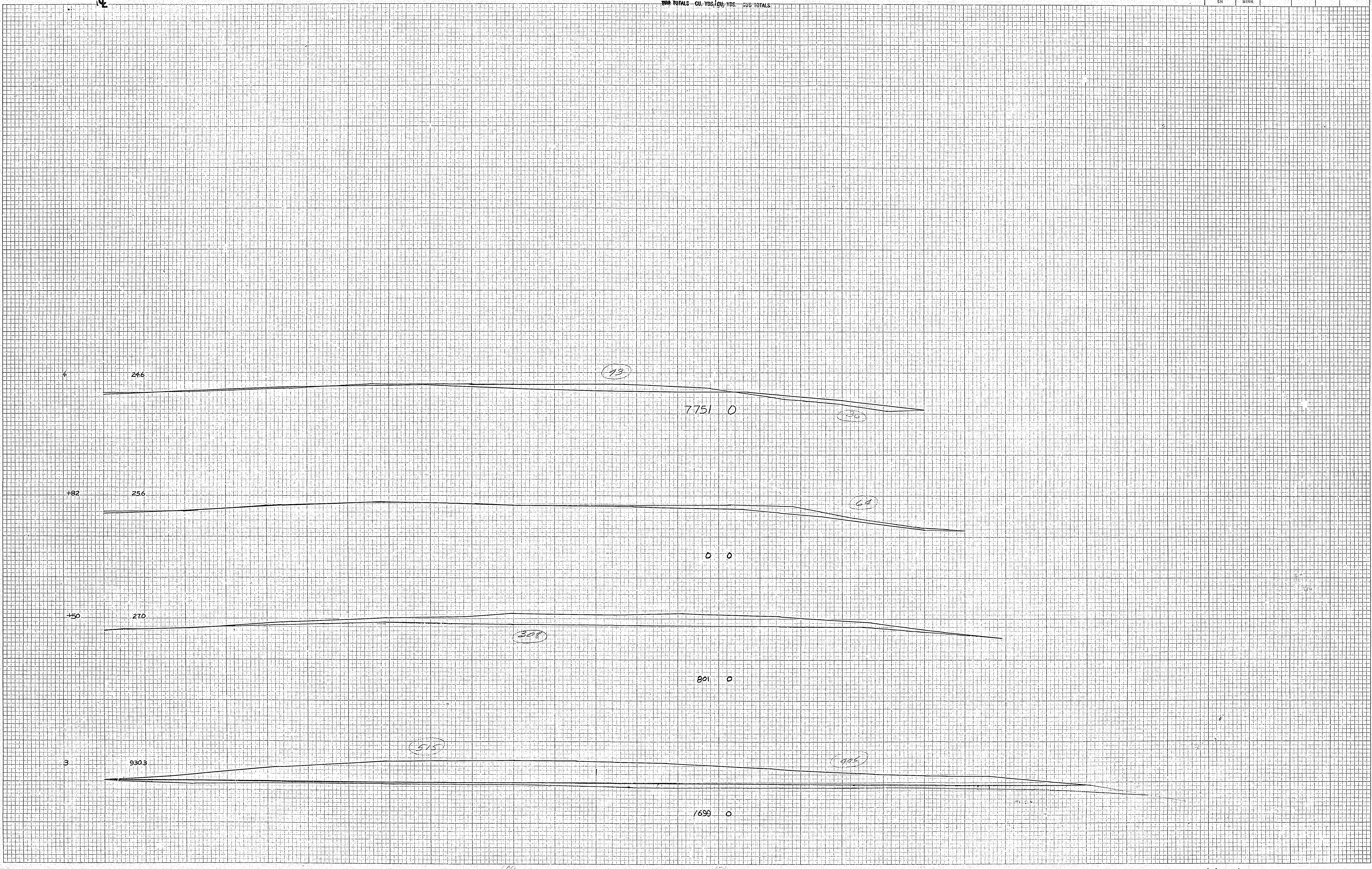
STATION-ELEVATION  
12

EXCAVATION / EMBANKMENT  
CUM TOTALS - CU-YDS / CU-YDS - CUB-TOTALS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
51	MINN.				

FINAL SURVEY NOTE BOOK NO. \_\_\_\_\_  
SURVEYED, PLOTTED, AREAS CHECKED, BY \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINAL SURVEY NOTE BOOK NO. \_\_\_\_\_  
SURVEYED, PLOTTED, AREAS CHECKED, BY \_\_\_\_\_ DATE \_\_\_\_\_





179 59  
146 07  
33 52

52 42  
18 25  
165 67  
146 07

190 20  
22 87  
167 33  
12 96  
114 37

247 x 86  
170  
120  
120

Scale 1" = 50'  
763.36 M.  
Archie  
13.0  
17.3  
18.5  
20.0  
21.5  
23.0  
24.5  
26.0  
27.5  
29.0  
30.5  
32.0  
33.5  
35.0  
36.5  
38.0  
39.5  
41.0  
42.5  
44.0  
45.5  
47.0  
48.5  
50.0

3.42 A<sub>4</sub> Total  
3.36 " Co. Assessment

2.35  
1.30 Ac.  
1.46 Co. Assessment

2.11  
1.51  
1.05 Co. Assessment

1.523

1.523