

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 (Take 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	-----	BUILDINGS (One Story Frame)	-----
TELEPHONE CONDUIT	-----	C-CONCRETE S-STONE T-TILE B-BRICK ST-STUCCO	-----
GUARD RAIL	-----	EDGE	-----
WIRE FENCE	-----	IRON PIPE	-----
RAILROAD SHOW FENCE	-----	STONE MONUMENT	-----
BOARD OR HIGHWAY SHOW 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	-----		

OFFICE OF COUNTY ENGINEER

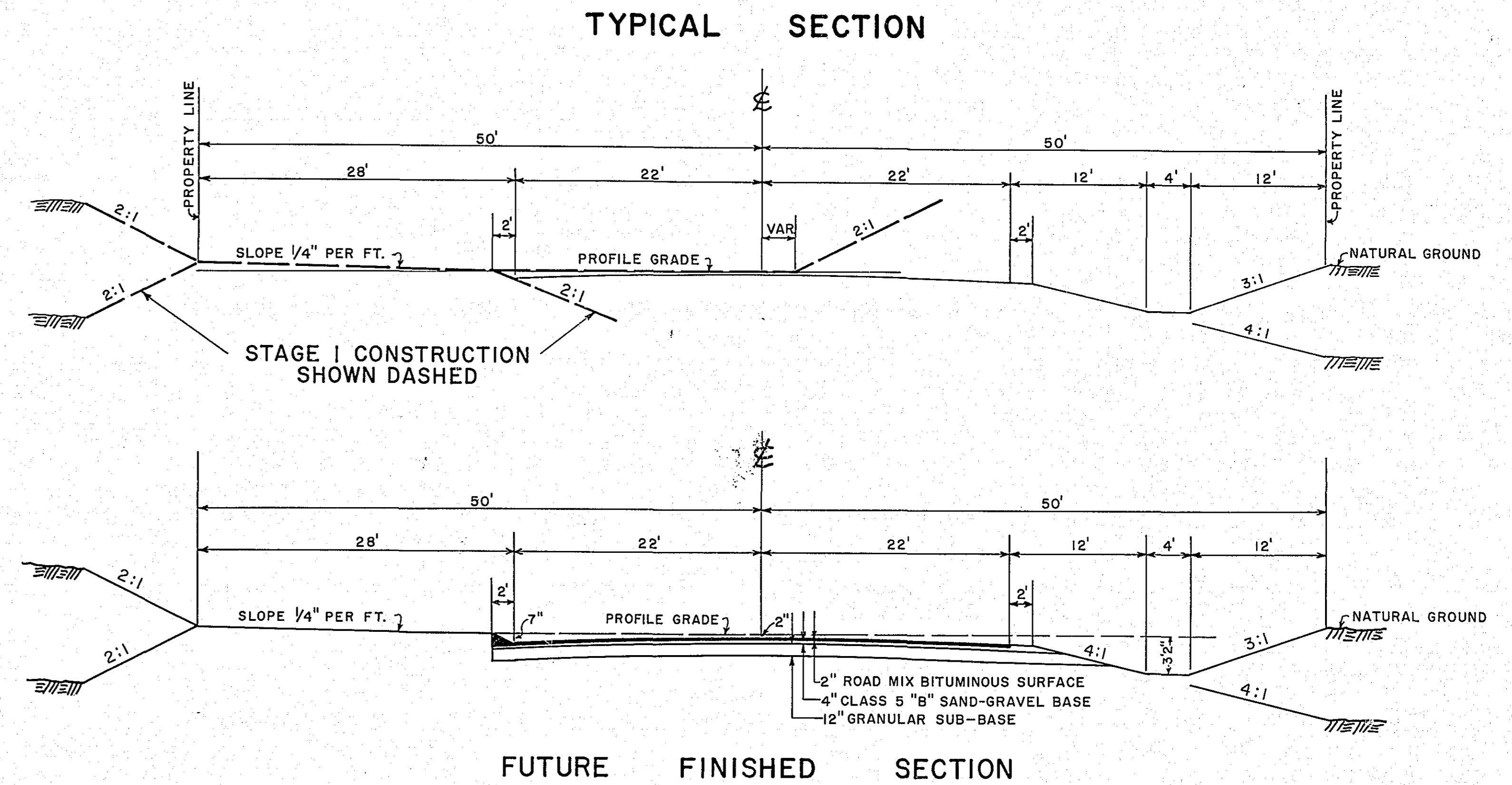
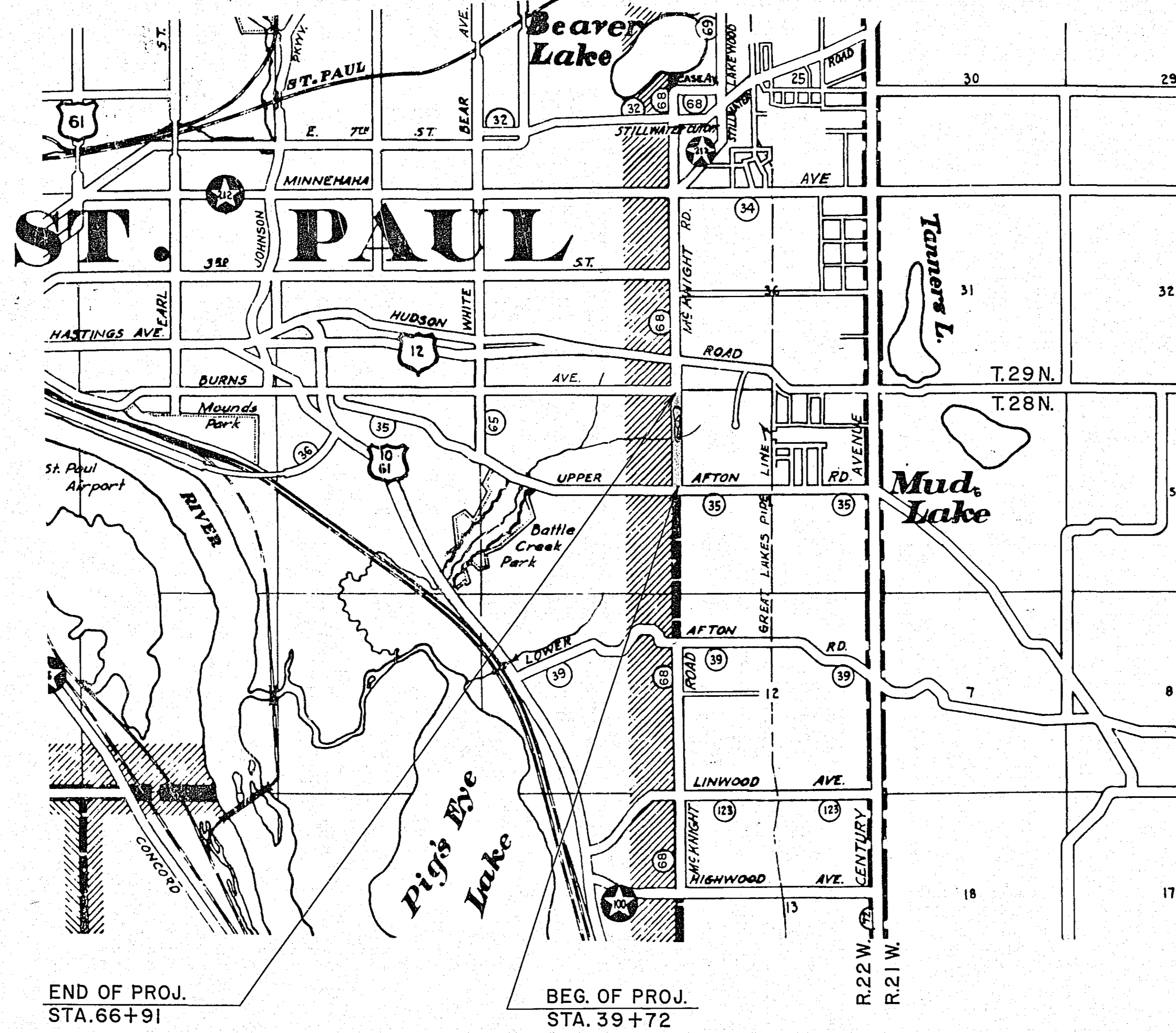
RAMSEY COUNTY
CONSTRUCTION PLAN FOR GRADING STAGE I
McKNIGHT ROAD
FROM UPPER AFTON ROAD (C.S.A.H. 35) TO BURNS AVE.
FROM WEST 1/4 COR. SEC. 1 T. 28 N., R. 22 W. TO NORTHWEST COR. SEC. 1 T. 28 N., R. 22 W.
PROJECT NO. S.A.P. 62-668-02

GROSS LENGTH	2719.0 FEET	0.515 MILES
BRIDGES-LENGTH	0 FEET	0 MILES
EXCEPTIONS-LENGTH	0 FEET	0 MILES
NET LENGTH	2719.0 FEET	0.515 MILES

SHEET NO.	1	INDEX
	2 & 3	TITLE SHEET
	4 TO 8	PLAN SHEETS
		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



NOTE: SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

PIT NO.	Located in	Dead Haul
PIT NO.	Located in	Dead Haul
PIT NO.	Located in	Dead Haul
PIT NO.	Located in	Dead Haul

ESTIMATED QUANTITIES

SPEC. NO.	DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITIES
2101.501	CLEARING	ACRE	0.35
2101.506	GRUBBING	ACRE	0.35
2104.510	REMOVE FENCE	LINEAR FOOT	700
2105.501	CLASS "A" EXCAVATION	CUBIC YARD	8,800
2104.501	REMOVE PORTABLE CULVERT	LINEAR FOOT	30
2501.511-24	F. & I. C.M. PIPE CULVERT 24"	LINEAR FOOT	60
2501.511-48	F. & I. C.M. PIPE CULVERT 48"	LINEAR FOOT	16
2501.531	INSTALL C.M. PIPE CULVERT 48"	LINEAR FOOT	14
557.621	RESET FENCE	LINEAR FOOT	700

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.
Barry S. Brown COUNTY ENGINEER REG. NO. 818 DATE 6/13/60

RECOMMENDED FOR APPROVAL *Barry S. Brown* COUNTY ENGINEER DATE 6/13/60
APPROVED *Paul J. McMillan* CHAIRMAN OF RAMSEY COUNTY BOARD DATE 6/13/60

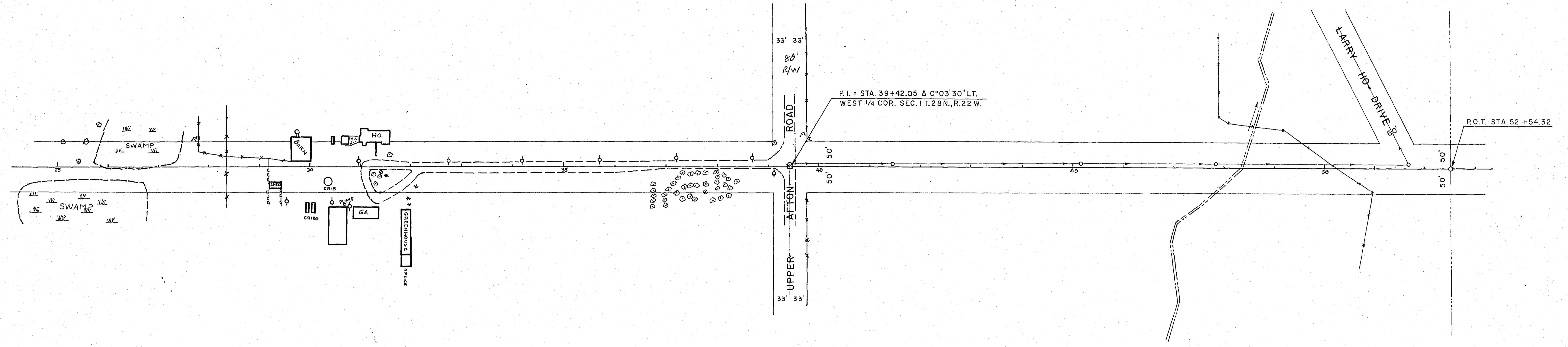
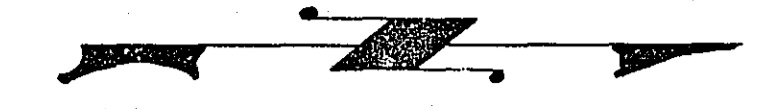
MINNESOTA STATE HIGHWAY DEPARTMENT
RECOMMENDED FOR APPROVAL *Paul J. McMillan* DATE 6/14/60
RECOMMENDED FOR APPROVAL *Paul J. McMillan* DATE 6/14/60
APPROVED *Paul J. McMillan* DEPUTY DISTRICT ENGINEER DATE 6/14/60
APPROVED *Paul J. McMillan* ENGINEER OF COUNTY DIVISION DATE 6/14/60

SPECIFICATIONS

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

MICRO-FILMED

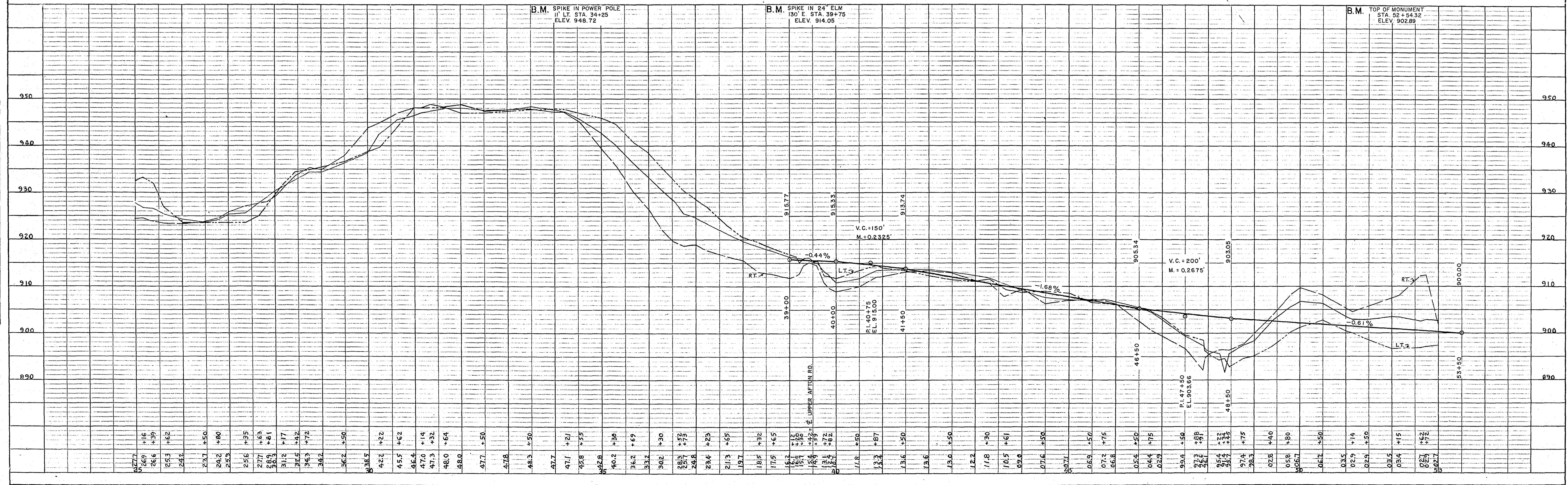
STA. 48+40
F. & I. 24" X 60' C.M. PIPE CULVERT



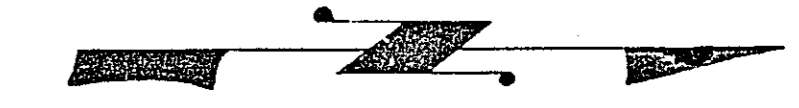
STA. 50+10 TO STA. 51+00
REMOVE FENCE 120 L.F.
REPLACE FENCE 120 L.F.

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

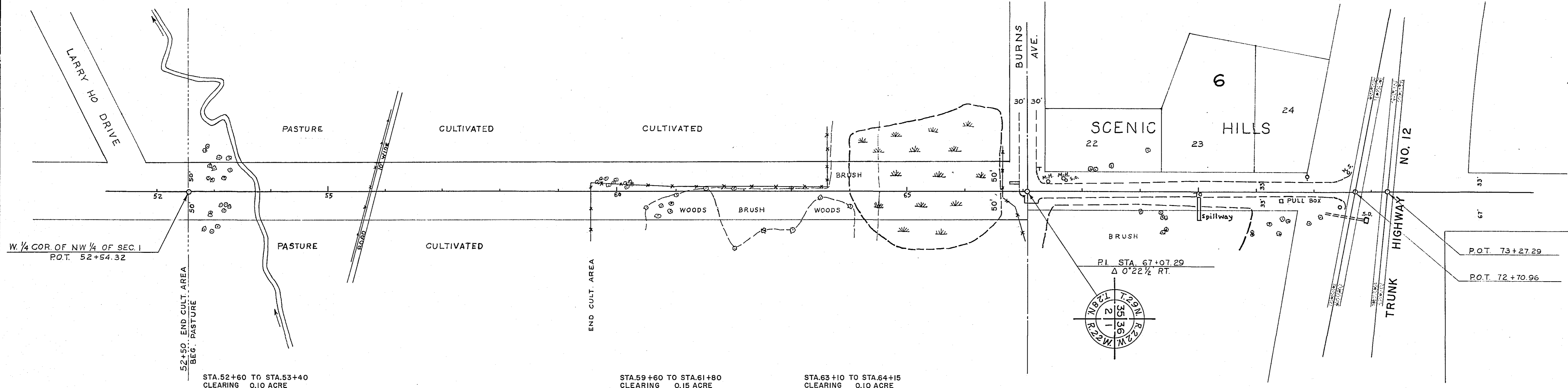
PROFILE	DATE
SURVEYED	
NOTE BOOK	
GRADES CHECKED	
B. M. NOTED	
STRUCTURE NOTED	
NO.	



STA. 53+70 ±
 F. & I. 48" X 16' C.M. PIPE CULVERT
 INSTALL 48" X 14' C.M. PIPE CULVERT
 REMOVE 48" X 60' C.M. PIPE CULVERT



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



STA. 52+60 TO STA. 53+40
 CLEARING 0.10 ACRE
 GRUBBING 0.10 ACRE

STA. 59+60 TO STA. 61+80
 CLEARING 0.15 ACRE
 GRUBBING 0.15 ACRE

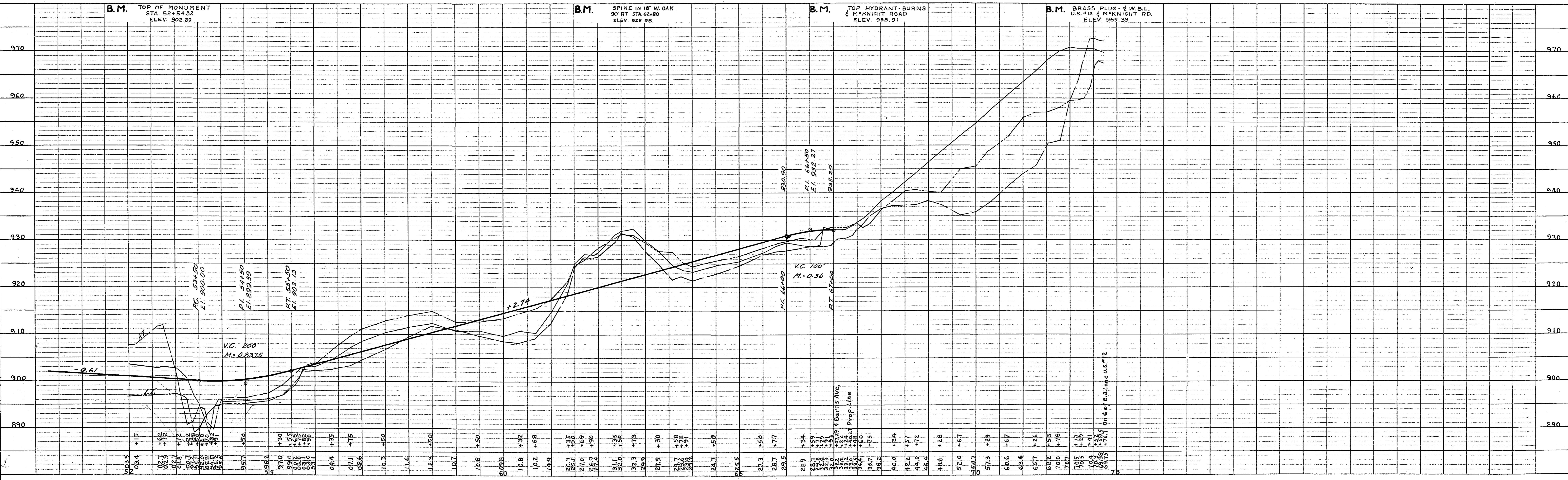
STA. 63+10 TO STA. 64+15
 CLEARING 0.10 ACRE
 GRUBBING 0.10 ACRE

STA. 55+50 TO STA. 55+90
 REMOVE FENCE 60 L.F.
 REPLACE FENCE 60 L.F.

STA. 59+50 TO STA. 63+70
 REMOVE FENCE 460 L.F.
 REPLACE FENCE 460 L.F.

STA. 66+60 TO STA. 66+90
 REMOVE FENCE 60 L.F.
 REPLACE FENCE 60 L.F.

PROFILE	SURVEYED	BY	DATE
NO.	NOTE BOOK	GRADES CHECKED	
		B. M'S NOTED	
		STRUCTURE NOTATIONS CHECKED	

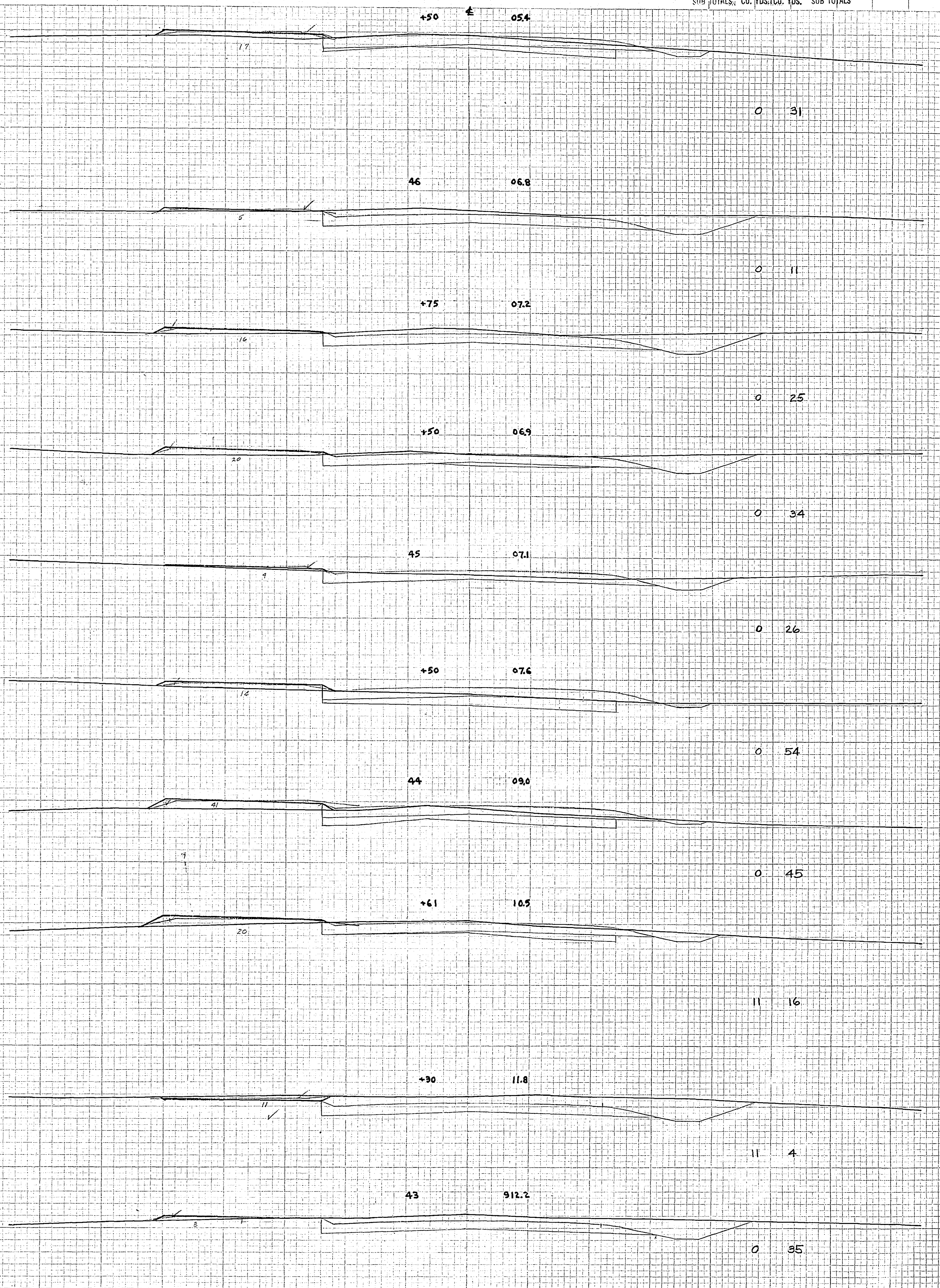
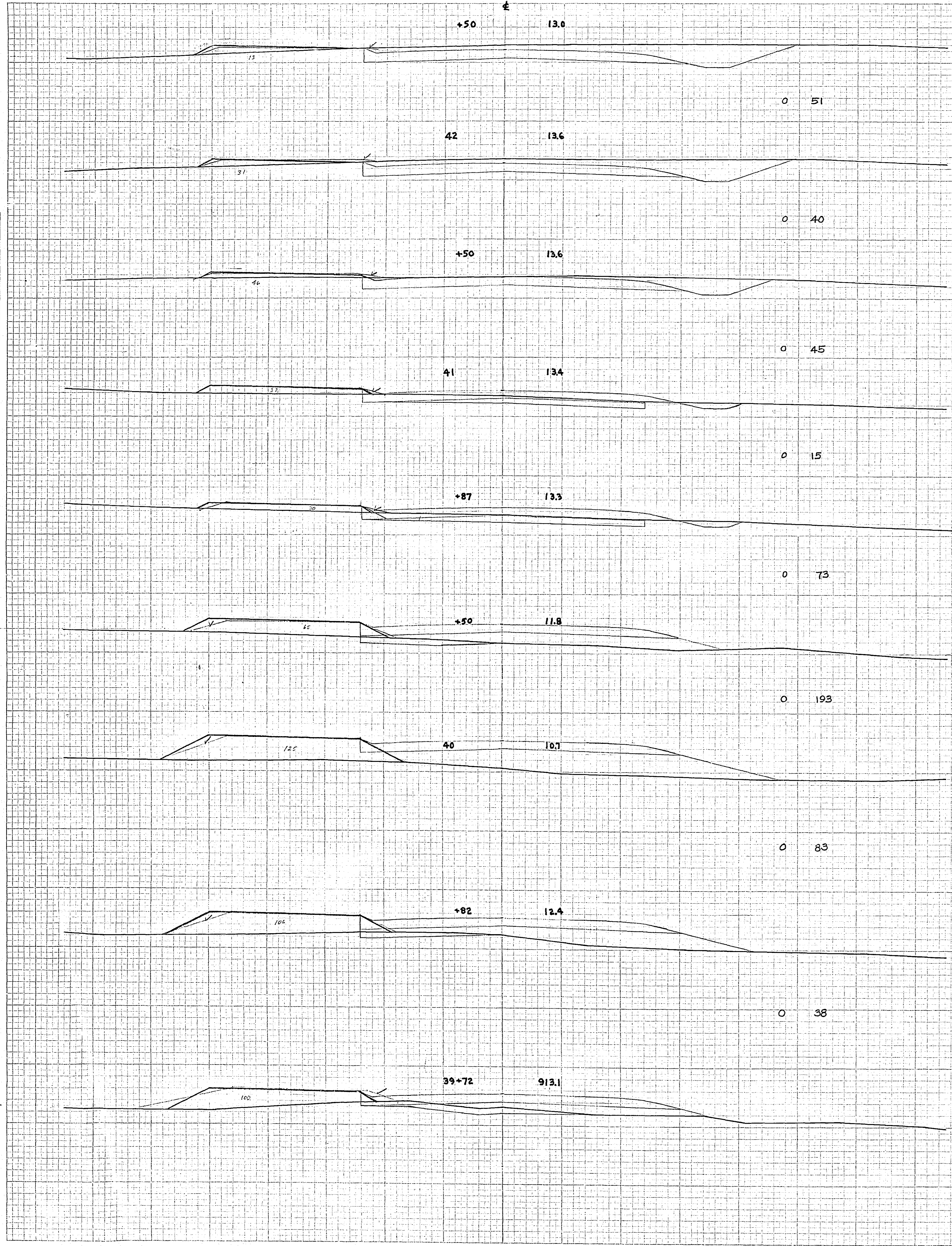


EXCAVATION | EMBANKMENT
 SUB TOTALS CU. YDS. | CU. YDS. SUB TOTALS

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

FINAL SURVEY
 SURVEYED...
 NOTE BOOK NO. ...
 AREAS CHECKED...

ORIGINAL SURVEY
 SURVEYED...
 NOTE BOOK NO. ...
 AREAS CHECKED...



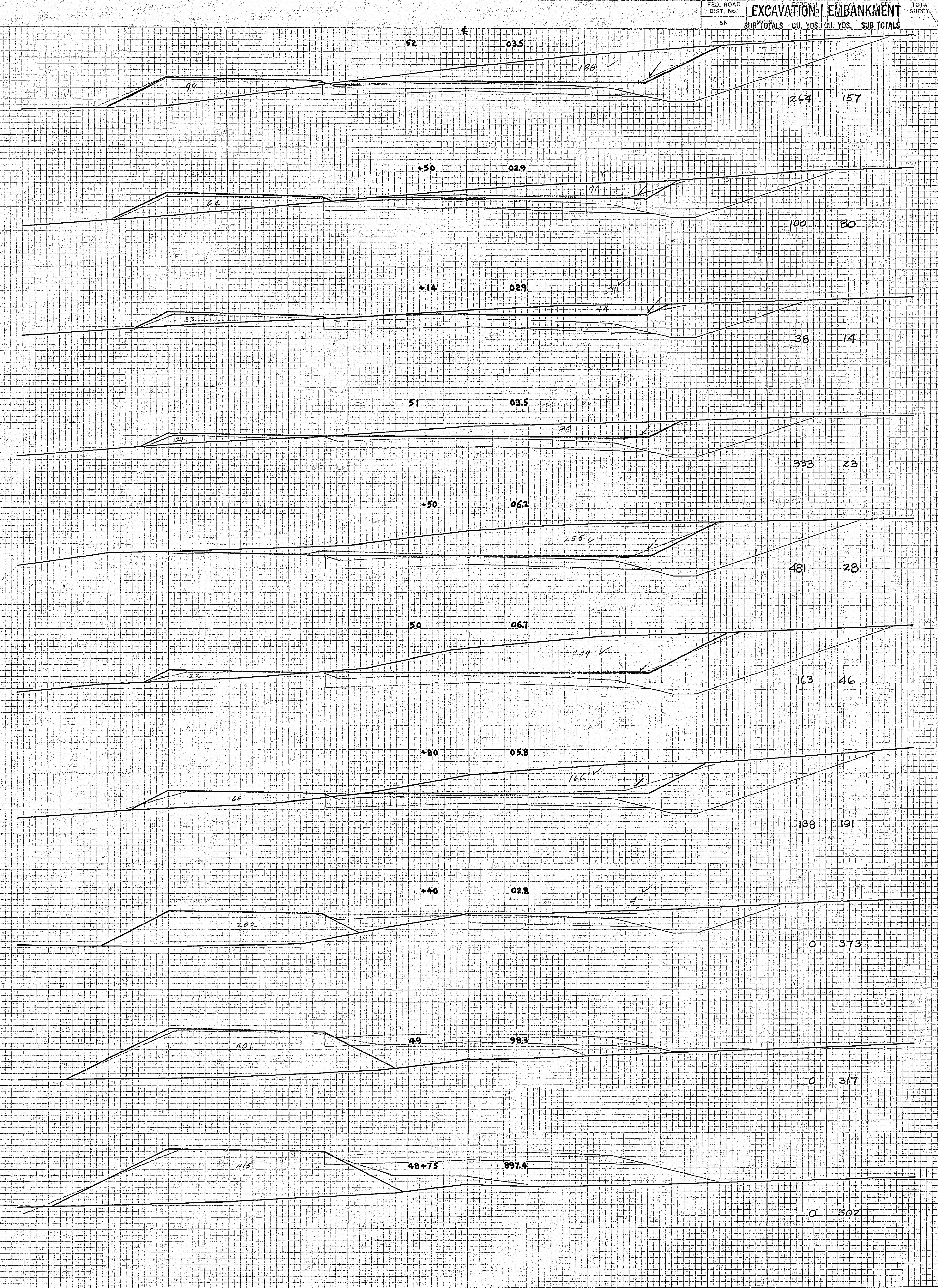
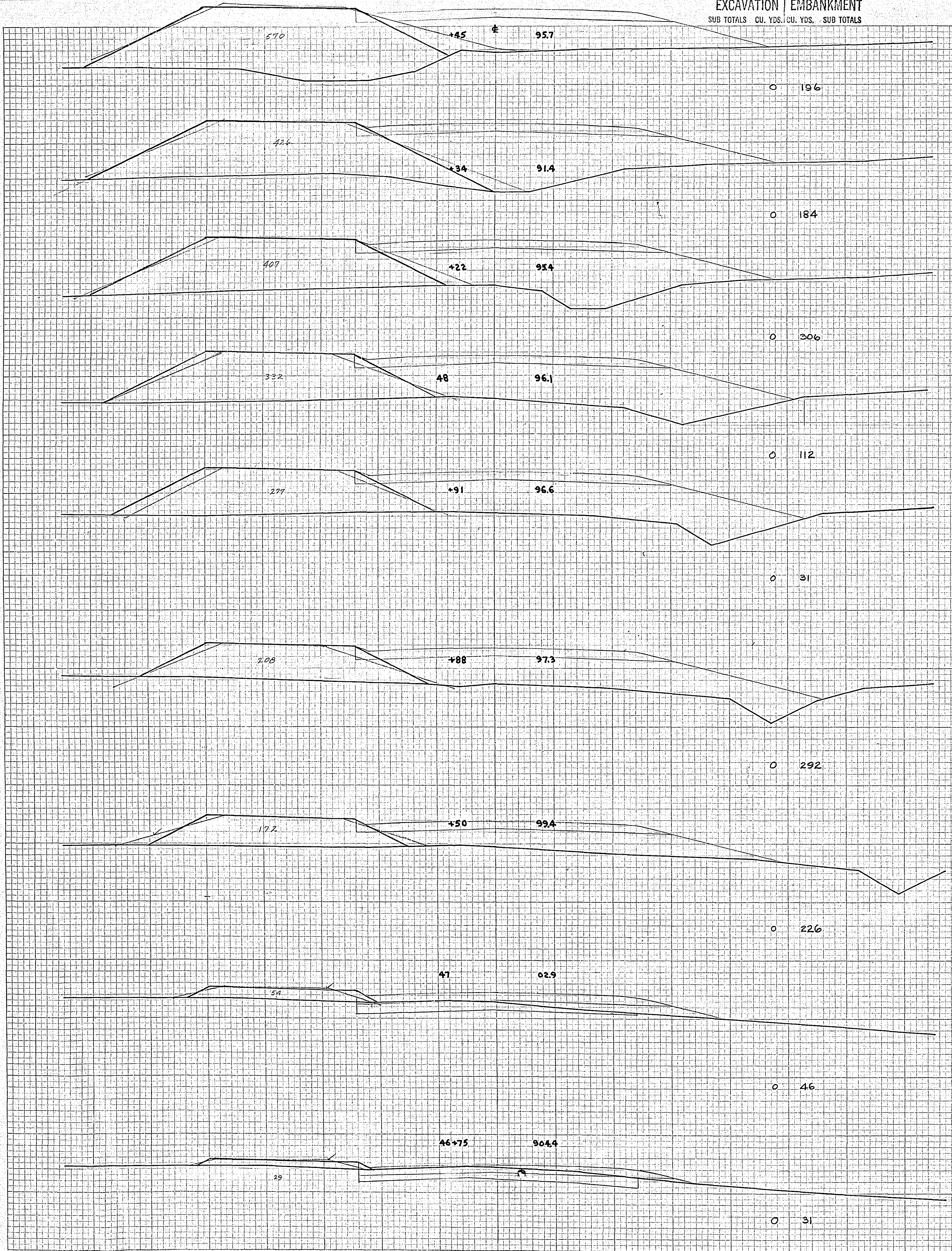
EXCAVATION | EMBANKMENT
SUB TOTALS CU. YDS. | CU. YDS. SUB TOTALS

FED. ROAD DIST. NO. SN
EXCAVATION | EMBANKMENT
SUB TOTALS CU. YDS. | CU. YDS. SUB TOTALS

TOTAL SHEET

FINAL SURVEY SURVEYED PLOTTED TEMPLATE NO. _____ DATE _____
NOTE BOOK NO. _____ AREAS CHECKED _____

ORIGINAL SURVEY SURVEYED PLOTTED TEMPLATE NO. _____ DATE _____
NOTE BOOK NO. _____ AREAS CHECKED _____

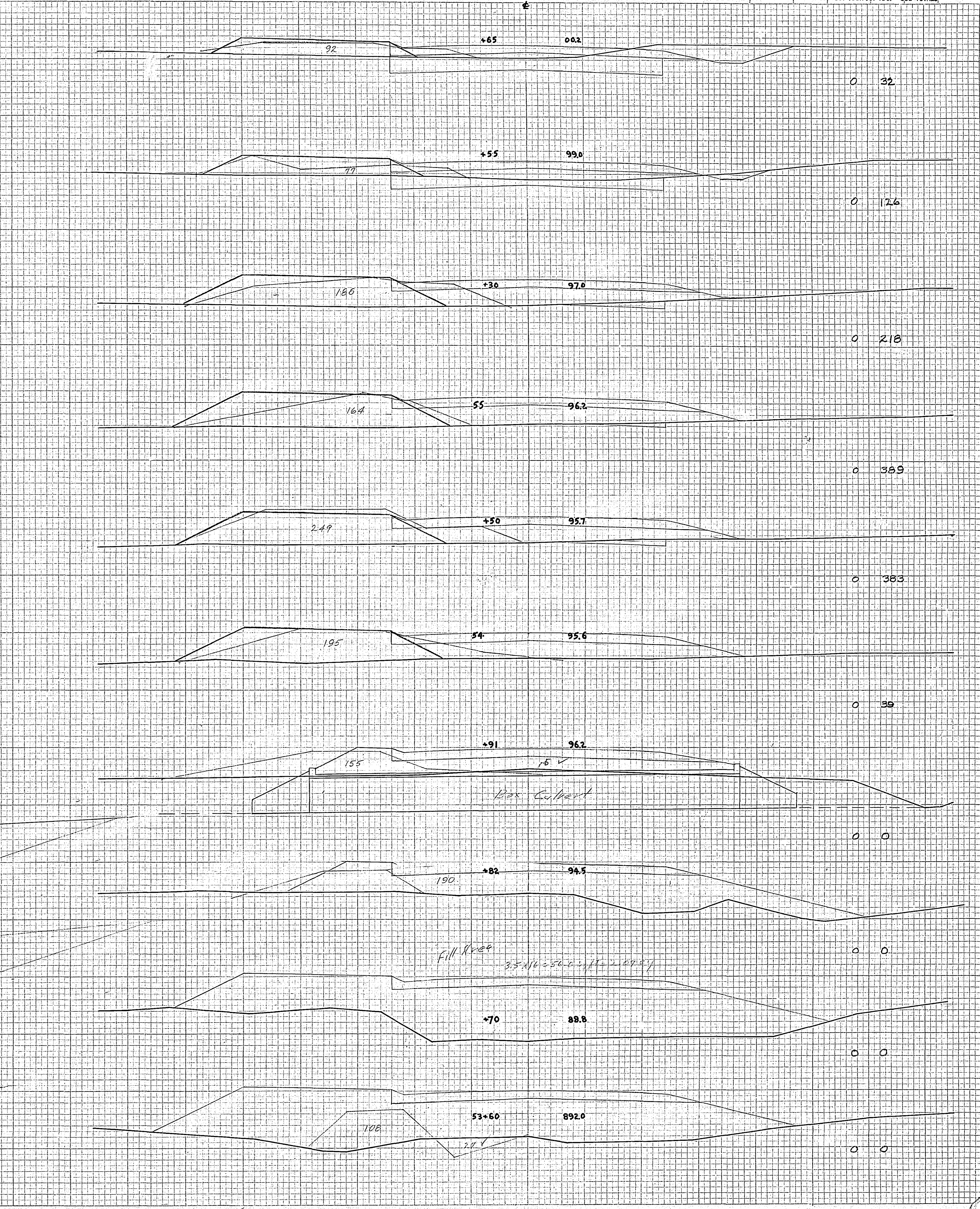
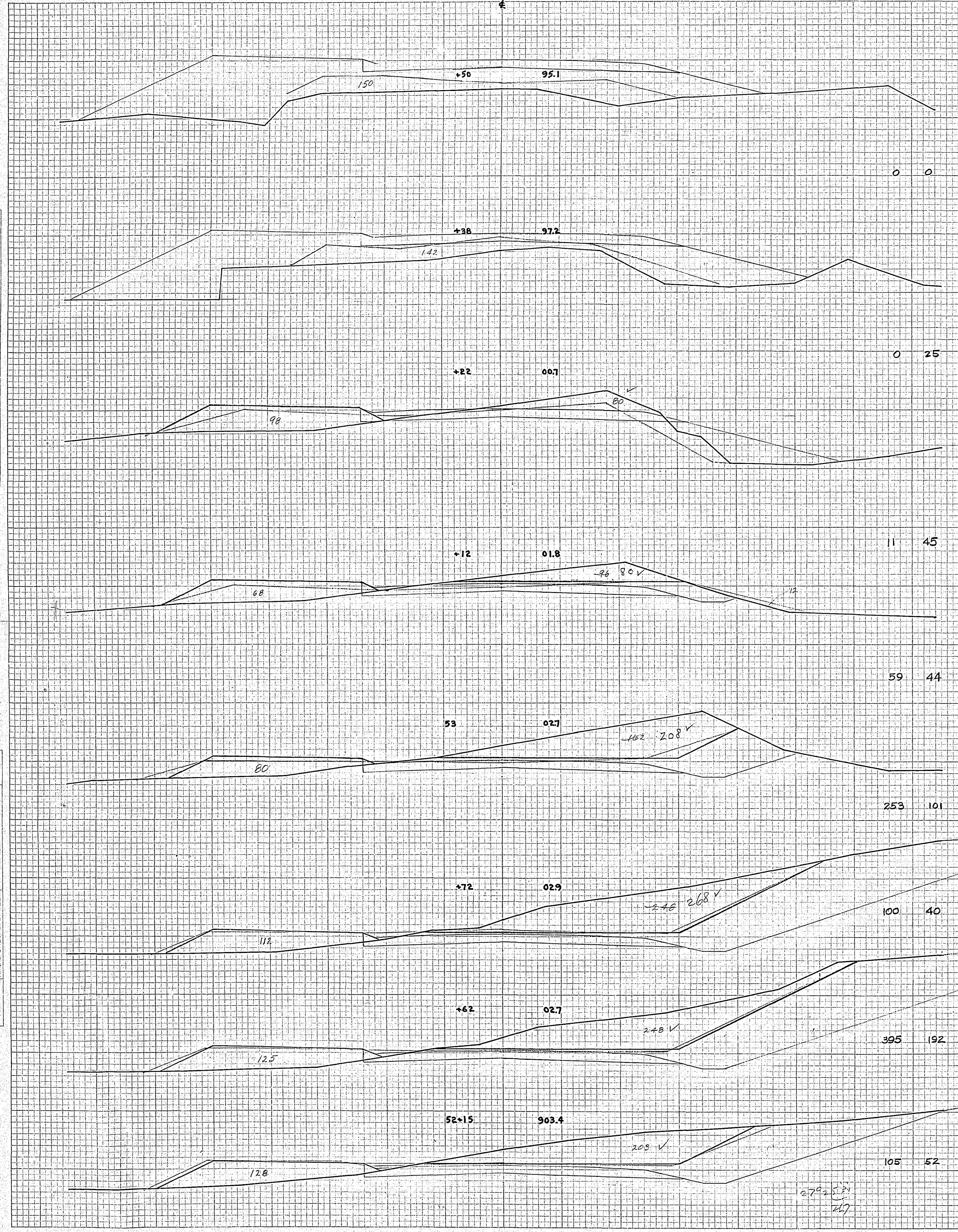


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DATE
 BY
 SURVEYED
 SURVEY PLOTTED
 NOTE BOOK AREAS CHECKED

DATE
 BY
 ORIGINAL SURVEYED
 SURVEY PLOTTED
 NOTE BOOK AREAS CHECKED

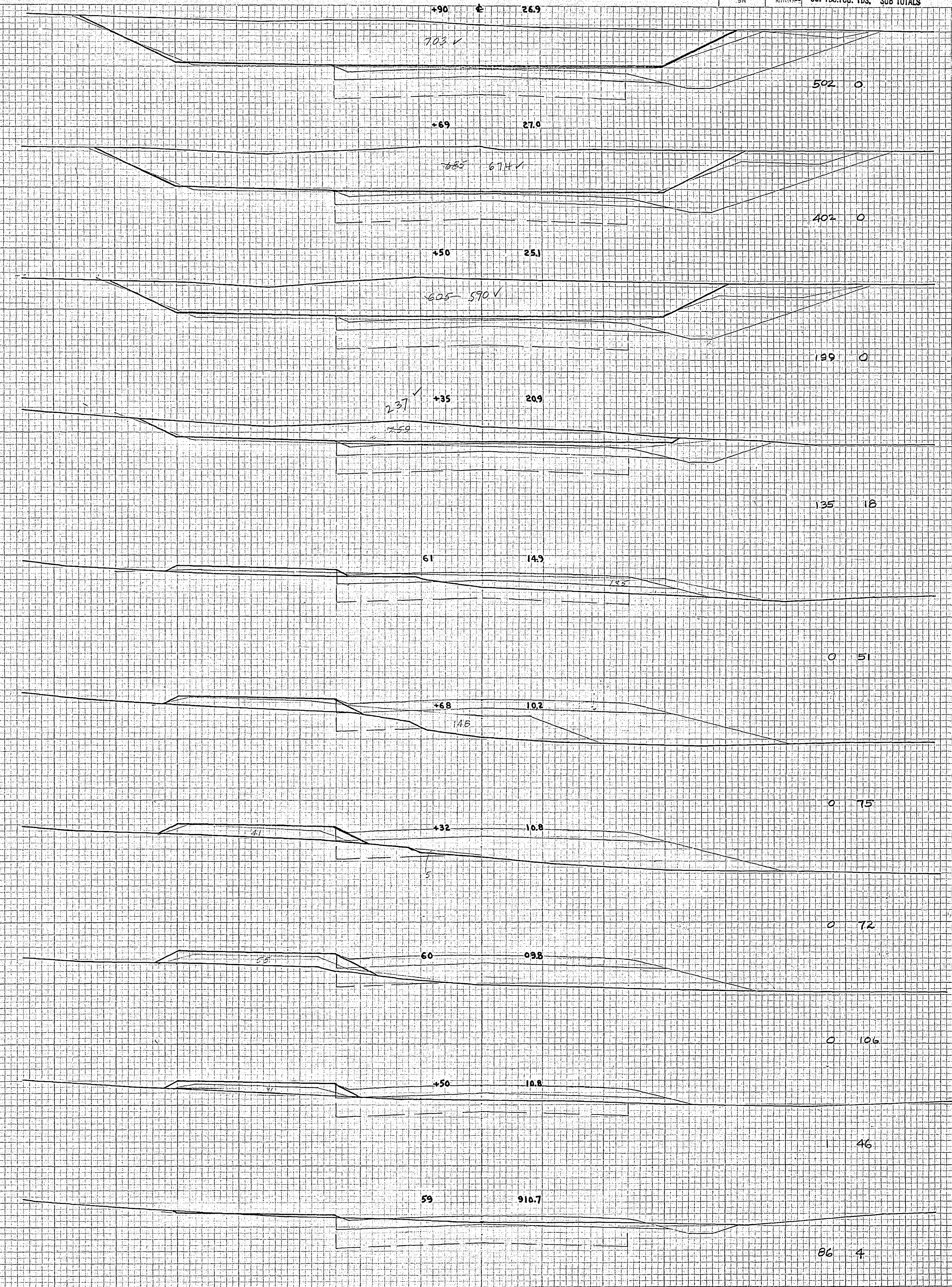
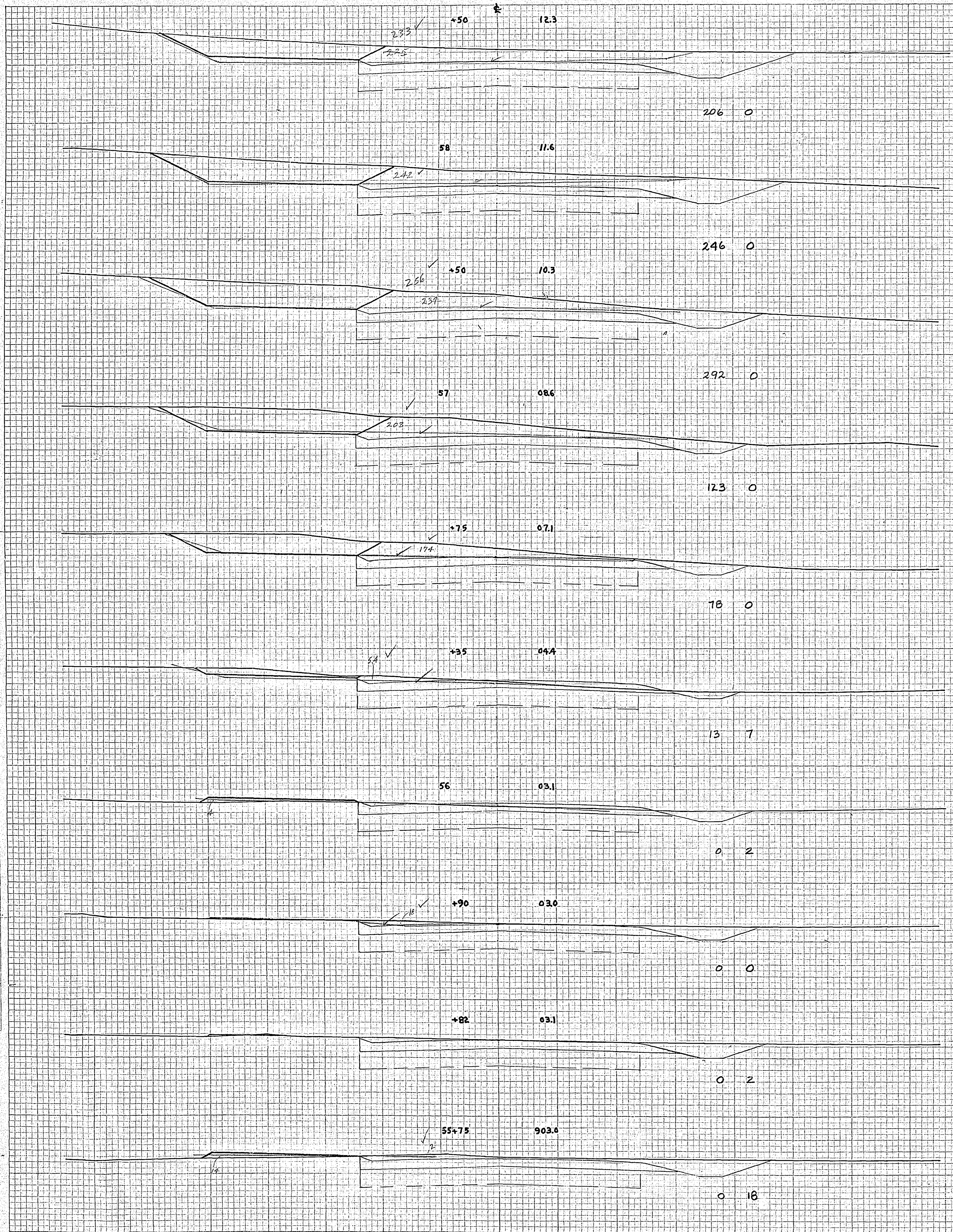


EXCAVATION | EMBANKMENT
 SUB TOTALS CU. YDS. | CU. YDS. SUB TOTALS

FED. ROAD DIST. No. 5N
 EXCAVATION | EMBANKMENT
 SUB TOTALS CU. YDS. | CU. YDS. SUB TOTALS
 TOTAL SHEETS

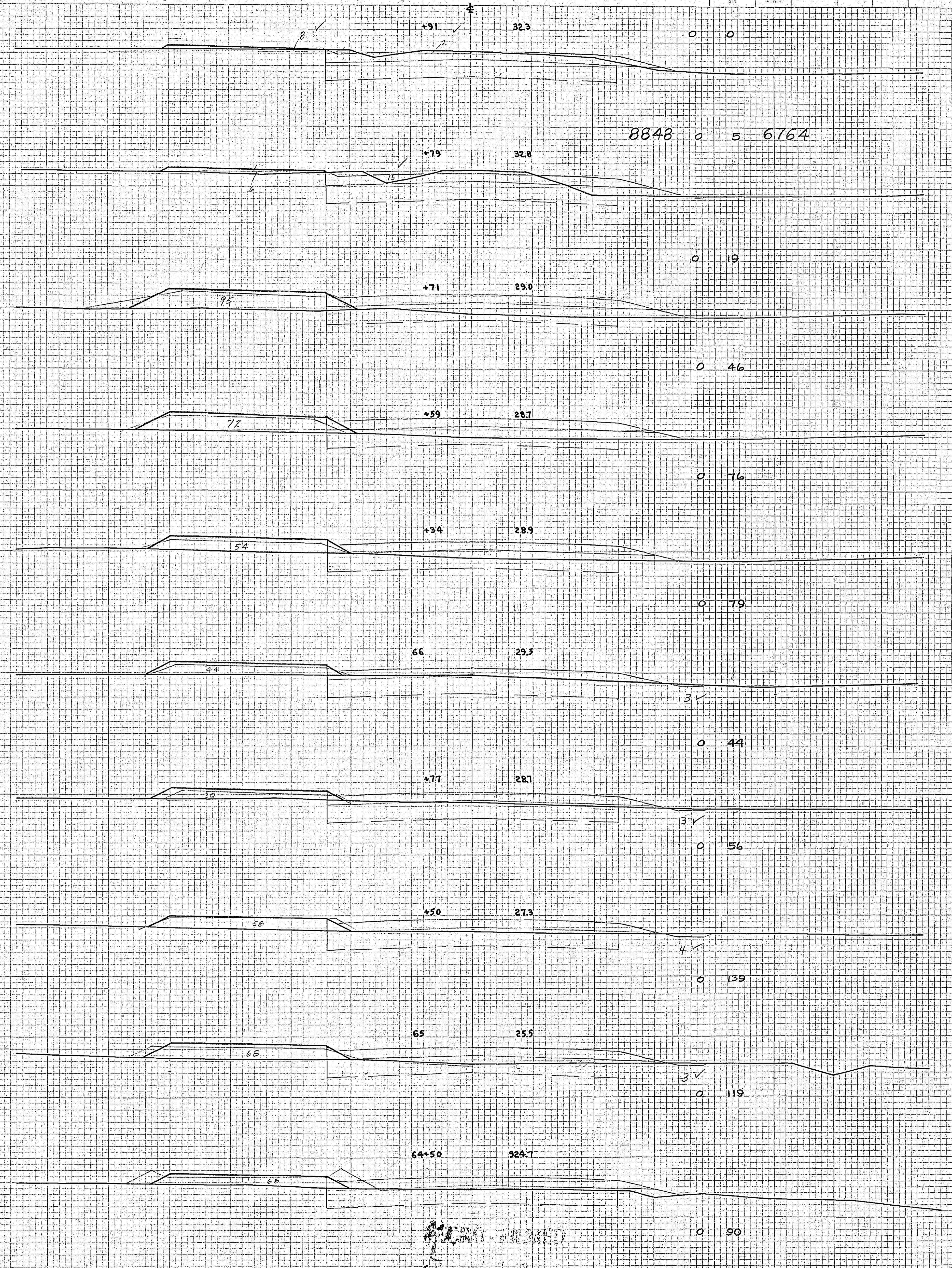
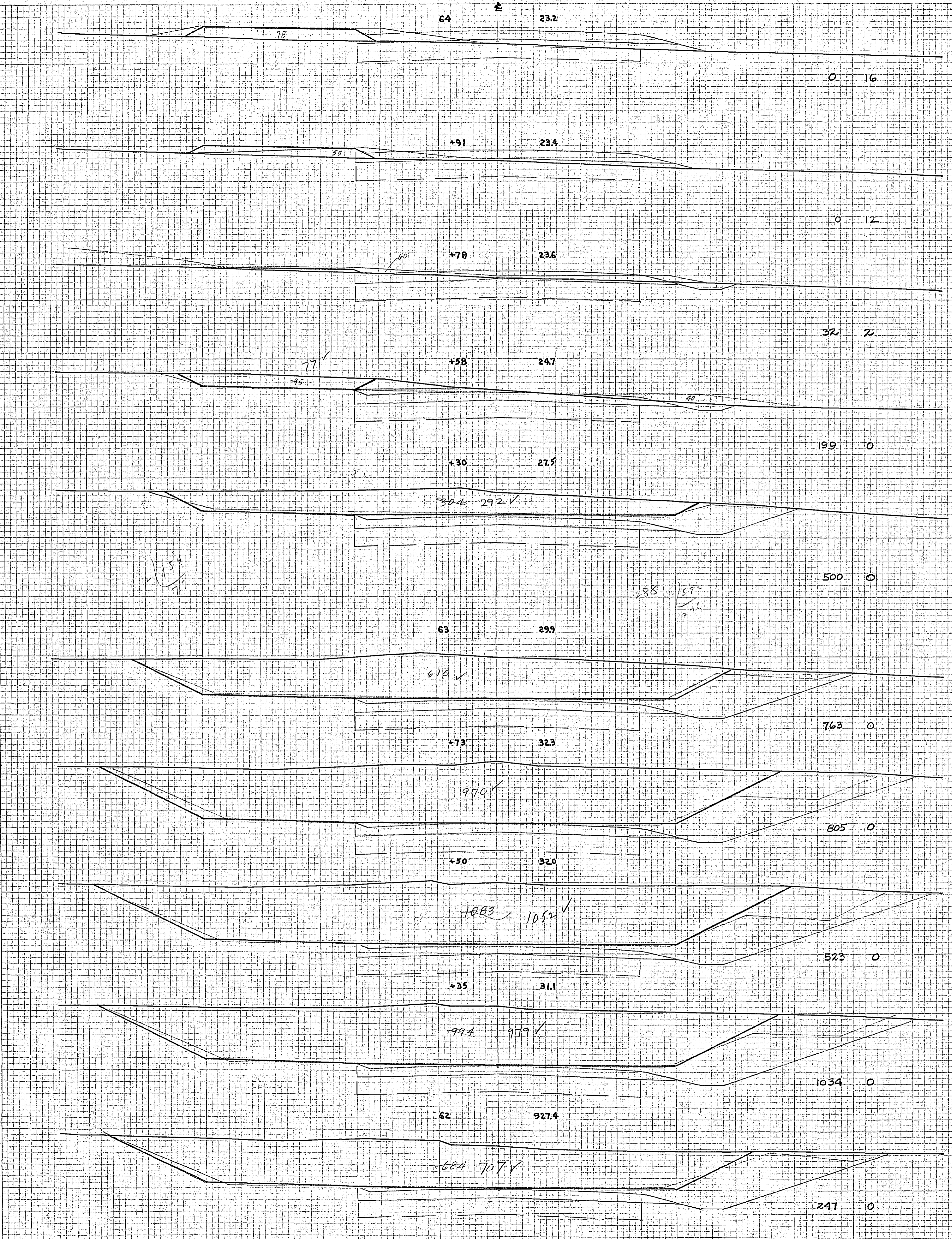
FINAL SURVEY PLOTTED
 DATE
 BY
 NO. OF AREAS CHECKED

ORIGINAL SURVEY PLOTTED
 DATE
 BY
 NO. OF AREAS CHECKED



FINAL SURVEY PLOTTED
 NOTE BOOK NO. []
 AREAS CHECKED

ORIGINAL SURVEY PLOTTED
 NOTE BOOK NO. []
 AREAS CHECKED



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