

PLATE 2 - MAIN PROFILE

CONVENTIONAL SIGNS & ABBREVIATIONS

STATE LINE	-----	EXCAVATION	.....	F
COUNTY LINE	-----	EMBANKMENT	.....	F
TOWNSHIP LINE	-----	OVERHAUL	.....	H
SECTION LINE	-----	SURFACING	.....	S
CITY, VILLAGE, OR BOROUGH	-----	GUARD RAIL	.....	GR
FENCE LINE	-----	INTERSECTION ANGLE	.....	A
RIGHT-OF-WAY LINE	-----	RADIUS	.....	R
TRAVELLED WAY	-----	ELEVATION	.....	EI
RAILROADS	-----	VERTICAL CURVE	.....	VC
RETAINING WALL	-----	BENCH MARK	.....	B.M.
BASE OR SURVEY LINE	-----	SECTIONAL CONCRETE CULVERT	.....	P.I.
LEVEE	-----	CORRUGATED METAL CULVERT	.....	C.M.
GRAVEL PIT	.....	CULVERT HAUL	.....	P.L.H.
SAND PIT	.....	TON MILES	.....	T.M.
CLAY PIT	.....	PLACE	.....	P
ROCK QUARRY	.....	IN PLACE	.....	INP
CULVERTS	-----	REPLACE	.....	REP
PLAIN	-----	RIGHT	.....	R
WITH FACEWALLS	-----	LEFT	.....	L
WITH WINGWALLS	-----	HAND DITCHING	.....	H.D.
DROP INLET	.....	POINT OF CURVE	.....	P.C.
POWER POLE LINE	-----	POINT OF TANGENT	.....	P.T.
TELEPHONE OR TELEGRAPH LINE	-----	POINT OF INTERSECTION	.....	P.I.
MARSH	.....	SPECIAL EXCAVATION	.....	S.E.
HEDGE, BRUSH, OR TIMBER	.....	SPECIAL FLOWING	.....	S.P.
GROUND ELEVATION	.....	TELEPHONE POLE	.....	Tel.P.
GRADE ELEVATION	.....		

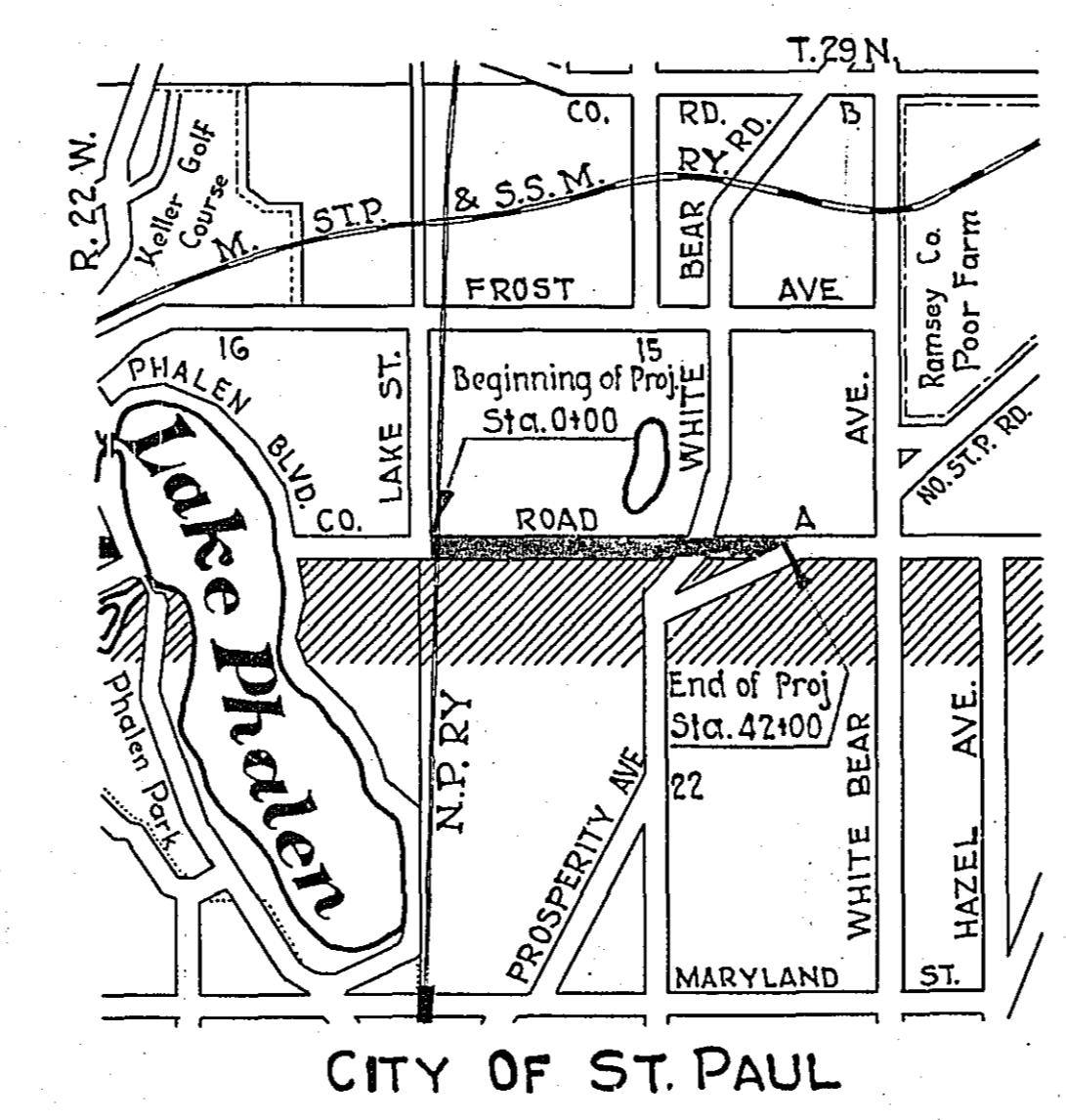
OFFICE OF COUNTY SURVEYOR
 RAMSEY COUNTY
 Plan and Profile of County Project No. W.P.A. 50

52 5300
 102 .002
 1.06 10.600

INDEX OF SHEETS
 Sheet No. 1. Title Sheet and Layout Map
 " No. 2. Plan and Profile, Sta. 0+00 to Sta. 42+00
 " No. 3,4,5,6,7,8 & 9 Cross Sections

From The N.W. Cor. of Sec. 22-29-22 To A point which is 1550' E. of the N/4 Cor. of Sec. 22-29-22

GROSS LENGTH 4200.0 FEET 0.80 MILES
 LENGTH OF EXCEPTIONS FEET MILES
 NET LENGTH 4200.0 FEET 0.80 MILES
 PLAN, 1 Inch = 100 Feet
 PROFILE, Horz. 1 Inch = 100 Feet. Vert. 1 Inch = 10 Feet
 WORKING PLANS { Horz. 1 Inch = 100 Feet
 Vert. 1 Inch = 10 Feet
 Cross-Sections, 1 Inch = 10' Horz. 5' Vert.
 LAYOUT
 SCALE, 1 Inch = 2640 Feet

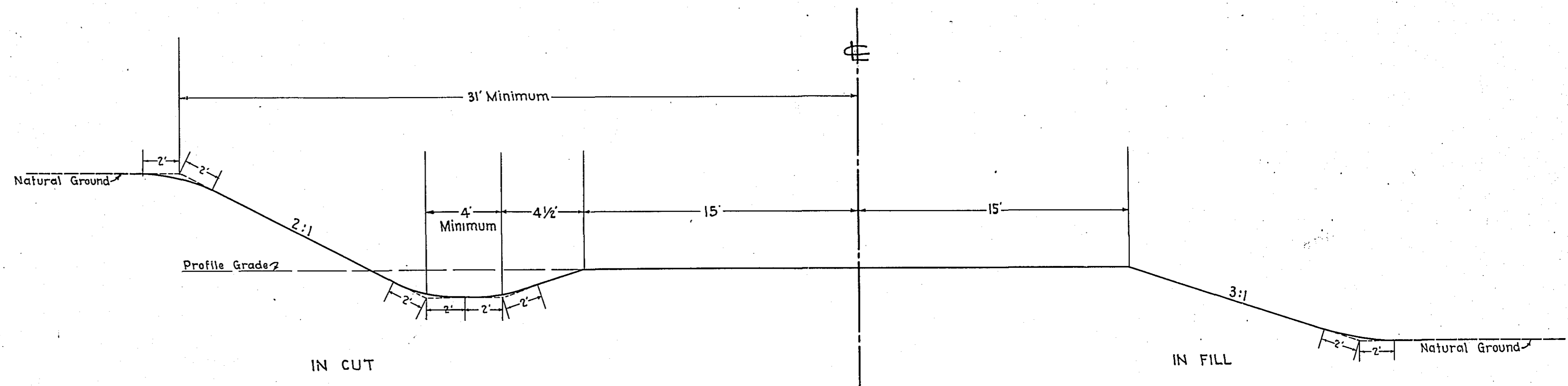


Date of Resolution for Preparation of Plans _____ 19____
 Planned by _____ OFFICE ENGINEER
 Recommended for Approval _____ MAINTENANCE ENGINEER
 Plans Approved and Recommended for Consideration *Emil H. Schulz* COUNTY SURVEYOR
 Approved by County Board _____ 19____ CHAIRMAN OF COUNTY BOARD

STATEMENT OF ESTIMATED QUANTITIES

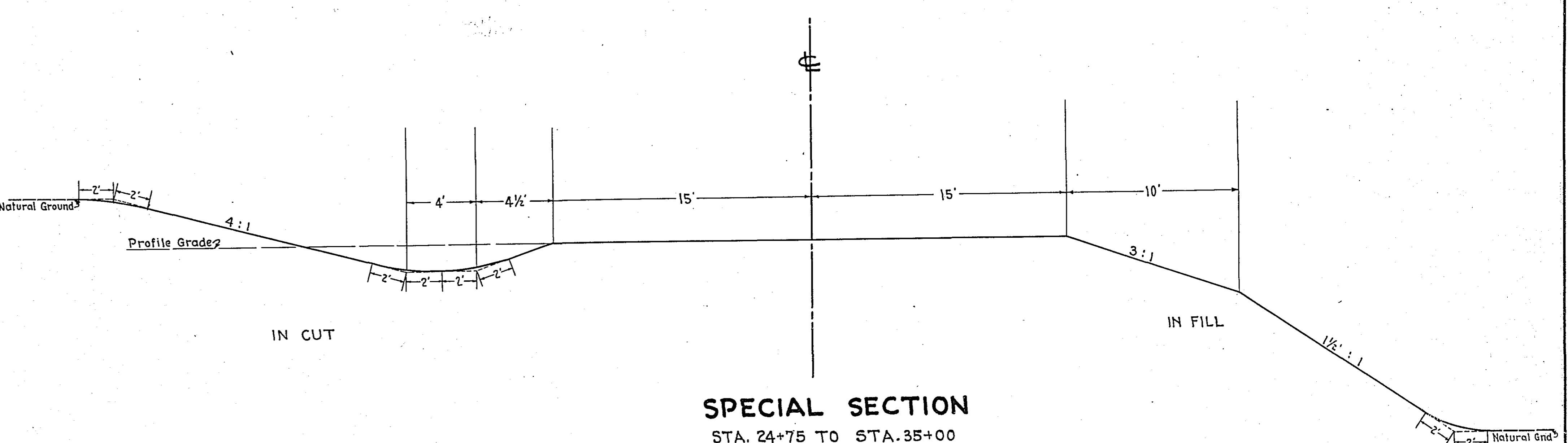
CLASS	ITEM	UNIT	MILE ONE From 0+00 To 42+00	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	TOTAL ESTIMATED QUANTITIES
GRADING	1	Clearing	Trees	58									58
	2	Grubbing	Trees	36									36
	3	Clearing	Acres										
	4	Grubbing	Acres										
	5	Excavation Earth	Cu. Yds.	31677									31677
	6	Excavation Loose Rock	Cu. Yds.	100									100
	7	Excavation Solid Rock	Cu. Yds.	50									50
	8	Excavation Overhaul	Cu. Yds.	28308									28308
	9	Excavation Special	Cu. Yds.										
	10	Excavation Hand Ditch	Cu. Yds.										
	11	Install 12" C.M.	Lin. Ft.										
	12	Install 15" C.M.	Lin. Ft.	120									120
	13	Install 18" C.M.	Lin. Ft.										
	14	Install 24" C.M.	Lin. Ft.	276									276
	15	Install 36" C.M.	Lin. Ft.	198									198
	16	Install	Lin. Ft.										
	17	Install 18" Ps	Lin. Ft.										
	18	Install 24" Ps	Lin. Ft.										
	19	Install 30" Ps	Lin. Ft.										
	20	Install 36" Ps	Lin. Ft.										
	21	Install	Lin. Ft.										
	22	Install	Lin. Ft.										
	23	Remove Old Culvert	Lin. Ft.										
	24	Replace Old Culvert	Lin. Ft.										
	25	Finishing and Seeding	100 Sq.Yds.										
	26	Rubble Gutter	Cu. Yds.										
	27	Headwall Concrete	Cu. Yds.										
	28	Headwall Steel	Lbs.										
	29	Borrow	Cu. Yds.	10522									10522
	30												
	31												
	32												
C.M. CULVERTS	1	Furnish 12" C.M.	Lin. Ft.										
	2	Furnish 15" C.M.	Lin. Ft.	120									120
	3	Furnish 18" C.M.	Lin. Ft.										
	4	Furnish 24" C.M.	Lin. Ft.	276									276
	5	Furnish 36" C.M.	Lin. Ft.	198									198
	6	Furnish	Lin. Ft.										
	7	Furnish 12" C.M. Band	Each										
	8	Furnish 15" C.M. Band	Each										
	9												
	10												
P ₃ CULVERTS	1	Furnish 18" P ₃	Lin. Ft.										
	2	Furnish 24" P ₃	Lin. Ft.										
	3	Furnish 30" P ₃	Lin. Ft.										
	4	Furnish 36" P ₃	Lin. Ft.										
	5												
	6												
GUARD RAIL	1	Guard Rail - Cable	Lin. Ft.										
	2	Guard Rail Anchors	Each										
	3	Dummy Posts	Each										
	4												
SIDEWALKS AND CURBING	1	Concrete Curb - Straight	Lin. Ft.										
	2	Concrete Curb - Radius	Lin. Ft.										
	3	Remove Old Curb	Lin. Ft.										
	4	Remove Old Curb and Gutter	Lin. Ft.										
	5	Remove Old Sidewalk	Sq. Ft.										
	6	Replace Old Sidewalk	Sq. Ft.										
	7	Construct New Sidewalk	Sq. Ft.										
	8	Curb Inlet	Each										
	9	Catch Basin Complete	Each										
	10												
	11												
	12												
SEWER	1	12" Vitrified Sewer Pipe	Lin. Ft.										
	2	15" Vitrified Sewer Pipe	Lin. Ft.										
	3	18" Vitrified Sewer Pipe	Lin. Ft.										
	4	20" Vitrified Sewer Pipe	Lin. Ft.										
	5	24" Vitrified Sewer Pipe	Lin. Ft.										
	6	Manhole Complete	Each										
	7	Catch Basin Complete	Each										
	8												
	9												
	10												
PAVEMENT	1	Pavement - 1 Course Conc.	Sq. Yds.										
	2	Pavement - Asphaltic Conc.	Sq. Yds.										
	3	Integral Curb 8"	Lin. Ft.										
	4	Integral Curb 12"	Lin. Ft.										
	5	Surface Drain	Each										
	6	Surface Drain Basin	Each										
	7	Shoulders - Earth	Lin. Ft.										
	8												
STRUCTURES	1	Concrete	Cu. Yds.										
	2	Reinforcing Steel	Lbs.										
	3	Excavation	Cu. Yds.										
	4	Piling	Lin. Ft.										
	5												
	6												
	7												
	8												
	9												
	10												

DETAILS



TYPICAL SECTION

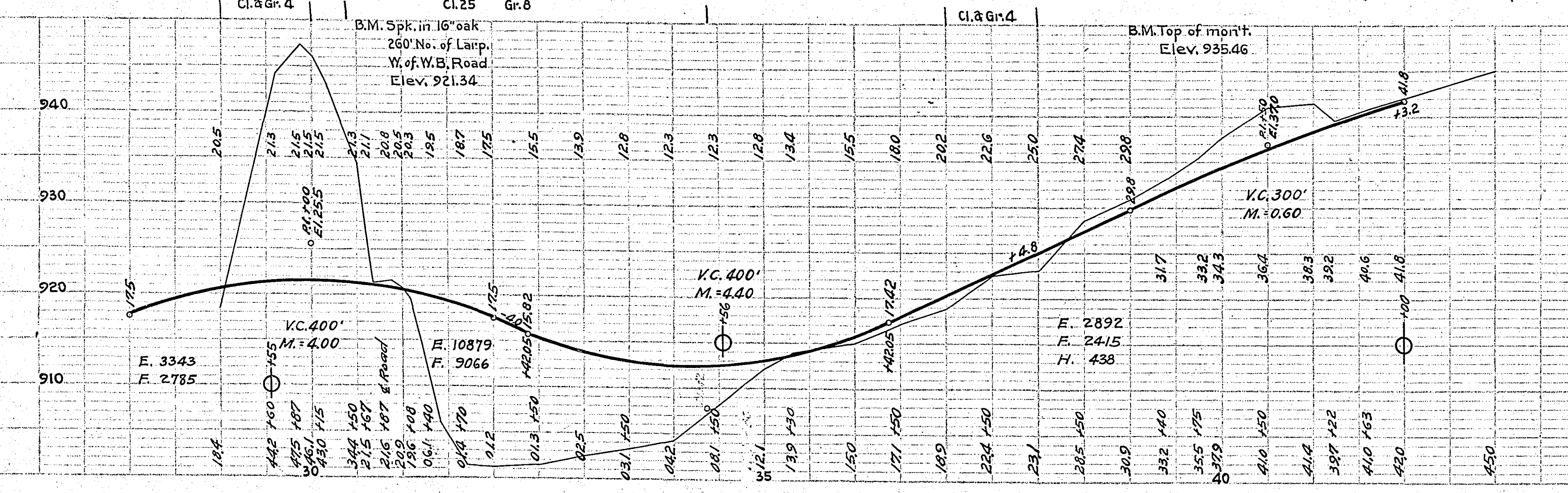
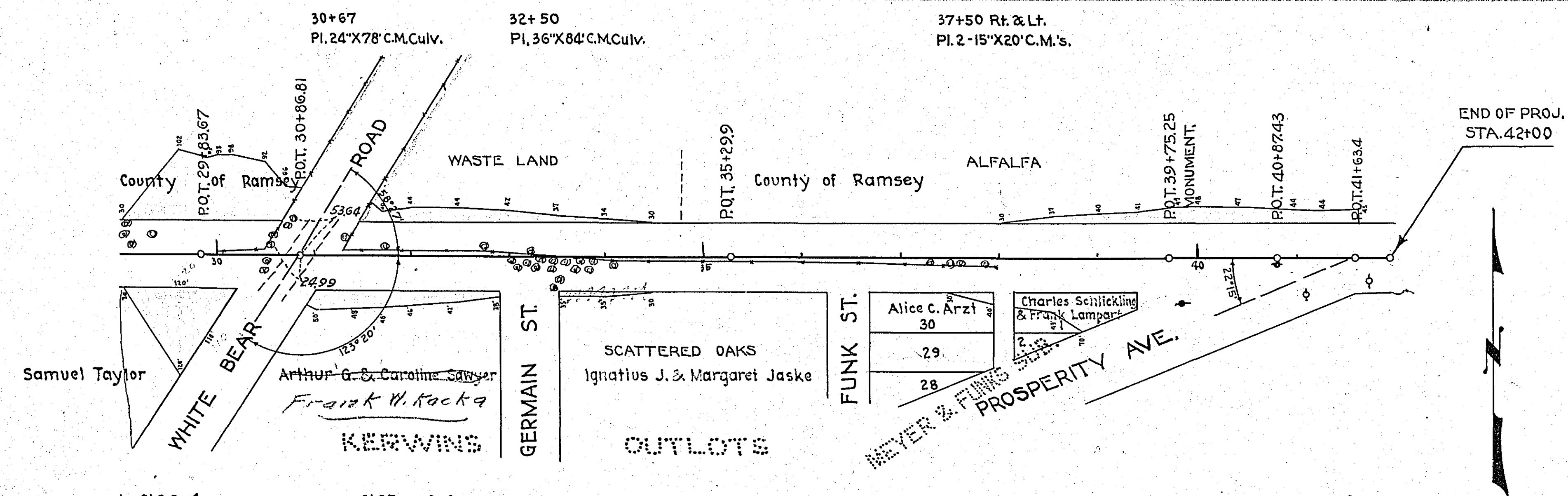
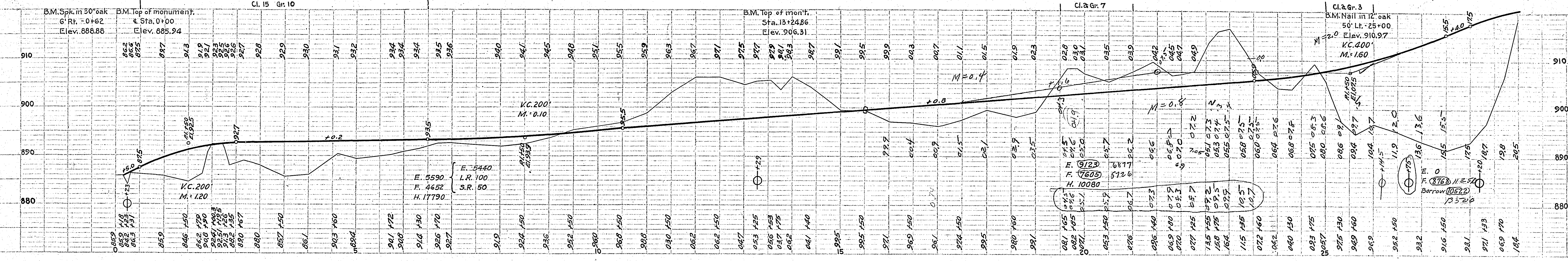
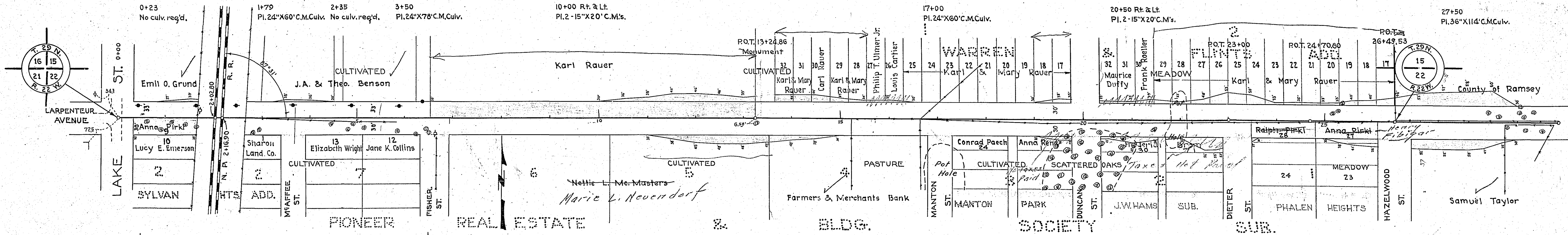
Note: Fills to be widened 1 Ft. where height exceeds 5 Ft.



SPECIAL SECTION

STA. 24+75 TO STA. 35+00

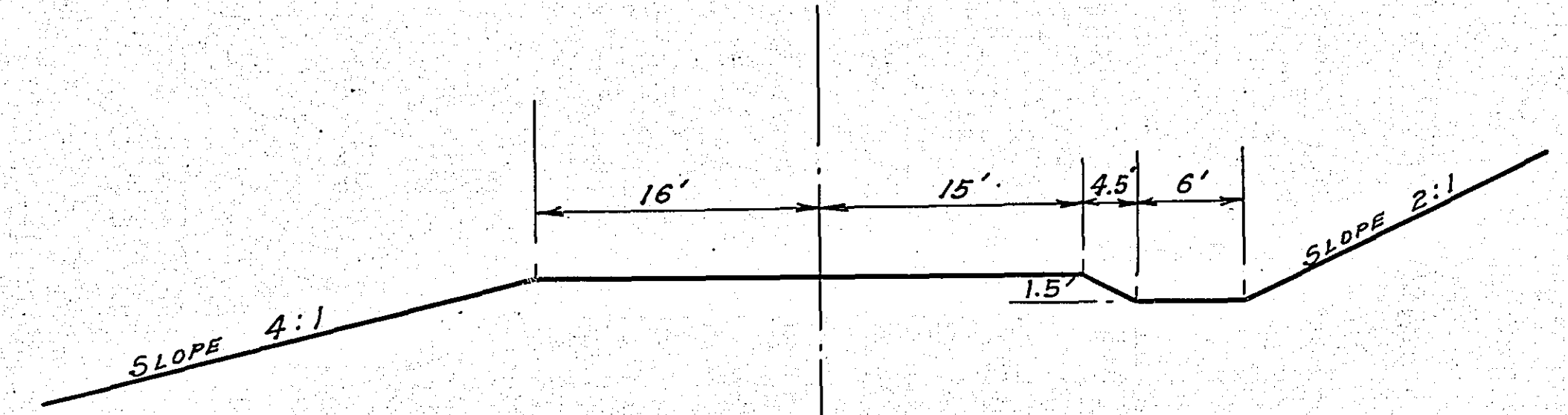
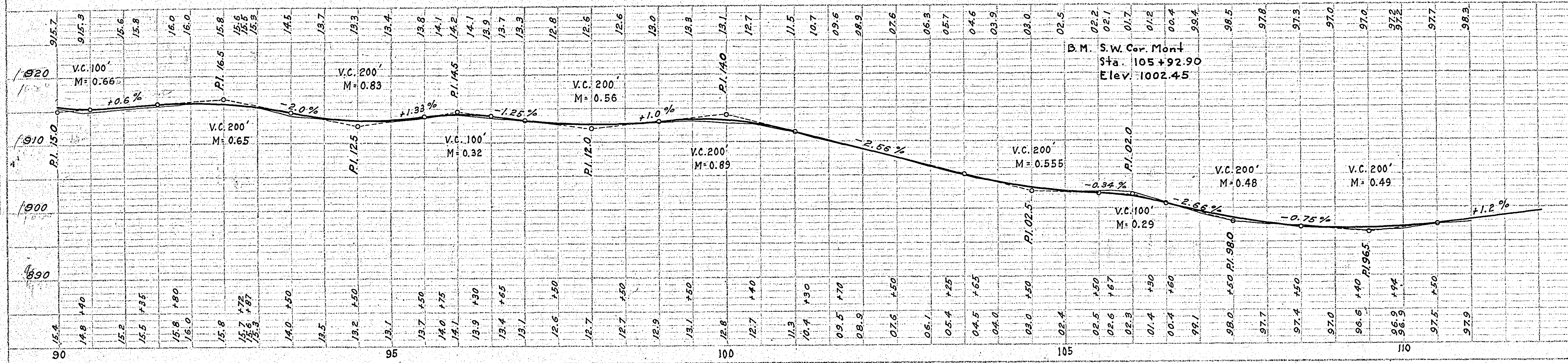
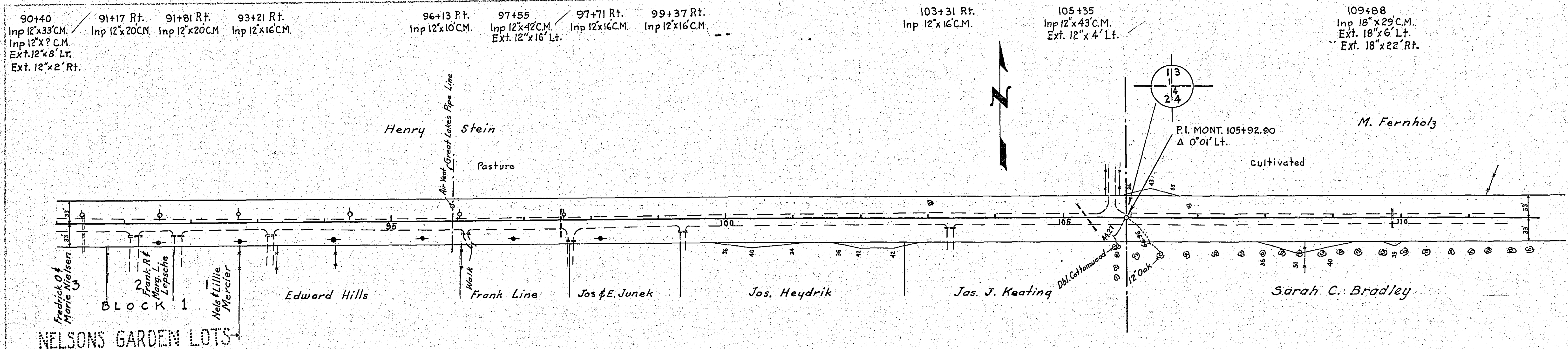
Note: Quantities as shown between Sta. 29+60 and 30+60 include all available material on Rt. side of Larpenaur. See Cross Section Sheet.



LARPENIEUR AVE.

ESTIMATED QUANTITIES

Clearing	Trees	58
Grubbing	"	36
Exc. Earth	Cu.Yds.	31677
"	Loose Rock	100
"	Solid	50
"	Overhaul	28308
Install 15" C.M.Culv.	Lin.Ft.	120
"	24" C.M.	276
"	36" C.M.	198
Required Borrow	Cu.Yds.	10522



TYPICAL SECTION

LARPEUR AVE.

QUANTITIES

EXCAVATION	15463 C.Y.
FILL	9015 C.Y.
WASTE	6448 C.Y.
12" C.M. CULV.	30 L.F.
12" C.M. BANDS	4
15" C.M. CULV.	50 L.F.
15" C.M. BANDS	1
18" C.M. CULV.	182 L.F.
18" C.M. BANDS	10
24" C.M. CULV.	16 L.F.
24" C.M. BANDS	2

PLAN
 NOTE BOOK ALMA MATER
 BY GEORGE W. STUBBS

PROFILE
 NOTE BOOK ALMA MATER
 BY GEORGE W. STUBBS