

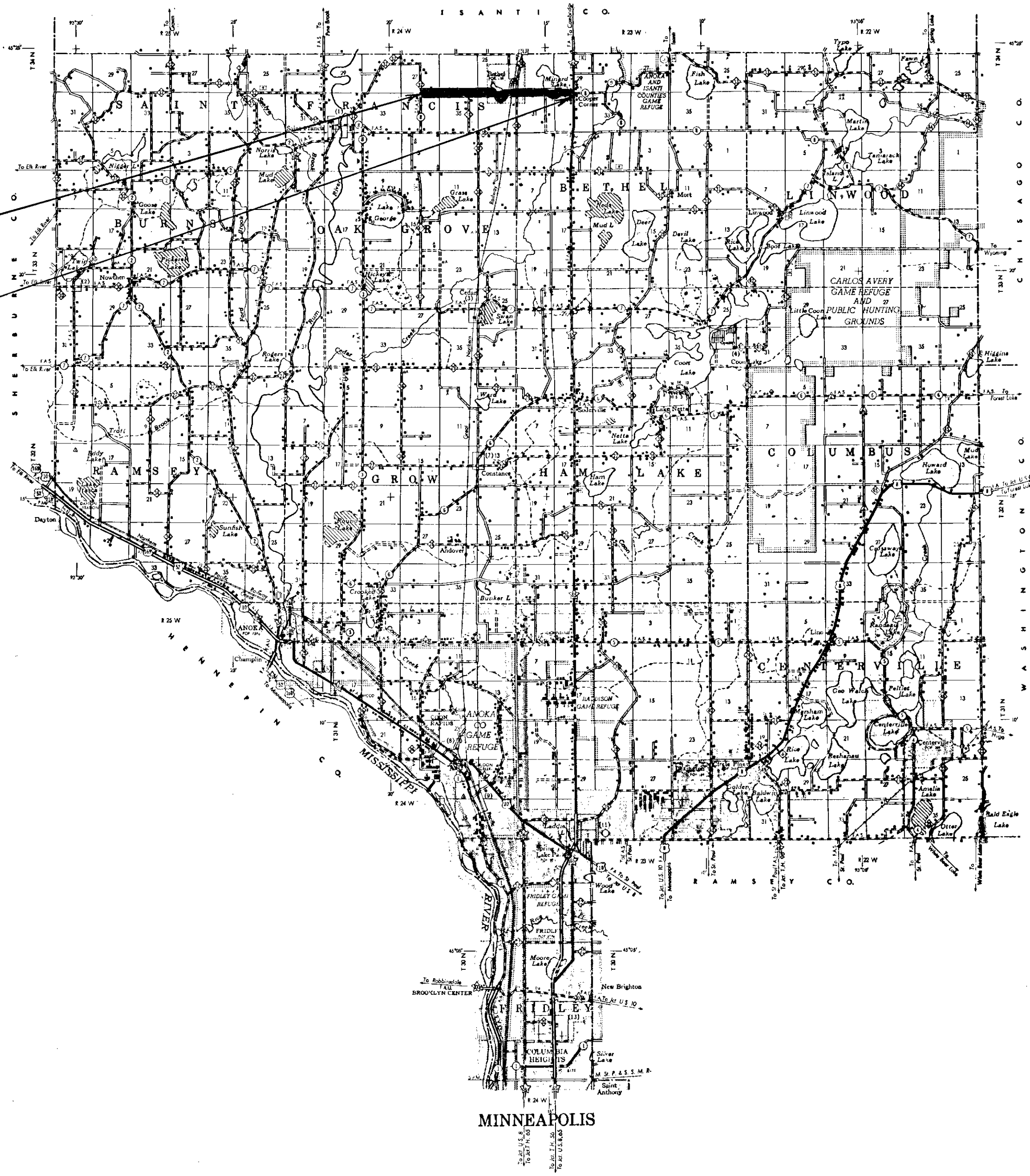
# STATE OF MINNESOTA DEPARTMENT OF HIGHWAYS Plan and Profile of State Aid Road No. 8

From N. 1/4 COR. SEC. 34 T. 34 N. R. 24 W. To S. 1/4 COR. SEC. 23 T. 34 N. R. 23 W.  
Give proper reference to Sections, Township and Range

GROSS LENGTH 21,914.8 FEET 4.151 MILES  
LENGTH OF EXCEPTIONS NONE FEET NONE MILES  
NET LENGTH 21,914.8 FEET 4.151 MILES

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

LAYOUT  
Scale, 1 Inch = 100 Feet



BEGIN S.P. 02-505-01 S 6374 (1)  
STA. 0+00

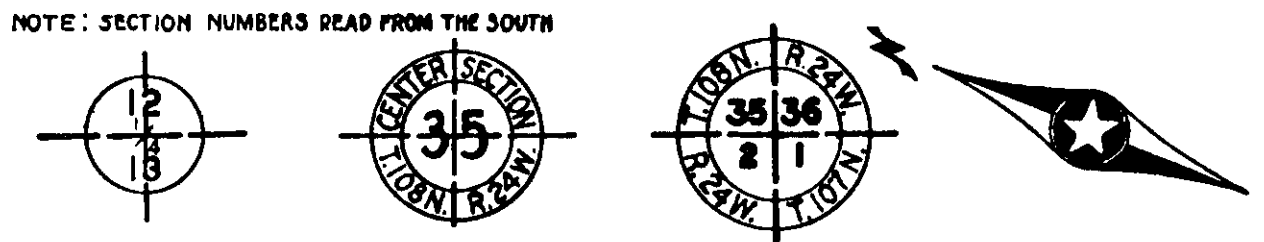
END S.P. 02-505-01 S 6374 (1)  
STA. 219+14.8

**CONVENTIONAL SIGNS**

STATE LINE	---
COUNTY LINE	---
TWP. OR RANGE LINE	---
SECTION LINE	---
RIGHT OF WAY LINE	---
CORPORATE OR CITY LIMITS	---
ROAD CENTER LINE	---
RETAINING WALL	---
RAILROADS	---
CREEK	---
DRY RUN	---
DRAINAGE DITCH	---
POWER POLE LINE	---
TELEPHONE OR TELEGRAPH LINE	---
CULVERTS - PLAIN	---
WITH ENDWALLS	---
WITH WINGWALLS	---
DROP INLET	---
FENCE LINE	---
GRAVEL PIT	---
SAND PIT	---
CLAY PIT	---
ROCK QUARRY	---
SPRINGS	---
MARSH	---
BRUSH OR TIMBER	---
HEDGE	---
ROCK LEDGE	---
SAND	---
EDGE OF CUT	---
TOE OF EMBANKMENT	---
RAILROAD R/W LINE	---
BUILDING (One Story Frame)	---

**ABBREVIATIONS**

EXCAVATION	.....	EXC.
EARTH	.....	E.
LOOSE ROCK	.....	L.R.
SOLID ROCK	.....	S.R.
EMBANKMENT	.....	F.
OVERHAUL	.....	H.
SURFACING	.....	S.
HAND DITCHING	.....	H.D.
SPECIAL EXCAVATION	.....	S.E.
SPECIAL PLOWING	.....	S.P.
GUARD RAIL	.....	G.R.
CORRUGATED METAL CULVERT	.....	C.M. CULV.
SECTIONAL CONCRETE CULVERT	.....	R. CULV.
SECTIONAL CONCRETE CULVERT (Heavy Type)	.....	R. CULV.
TON MILES	.....	T.M.
TELEPHONE POLE	.....	TEL. P.
POWER POLE	.....	P. P.
PLACE	.....	P.
INPLACE	.....	INP.
REPLACE	.....	REP.
RIGHT	.....	RT.
LEFT	.....	LT.
INTERSECTION ANGLE	.....	Δ
RADIUS	.....	R.
TANGENT	.....	T.
LENGTH OF CURVE	.....	L.
POINT OF CURVE	.....	P.C.
POINT OF TANGENT	.....	P.T.
POINT OF INTERSECTION	.....	P.I.
VERTICAL CURVE	.....	V.C.
BENCH MARK	.....	B.M.
ELEVATION	.....	EL.
ACRES	.....	A.



**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.	" " " " 60+00 " " 120+00
" No. 5.	" " " " 120+00 " " 180+00
" No. 6.	" " " " 180+00 " " 219+14.8
" No. 7-23	CROSS SECTIONS STA. 0+00 TO STA. 219+14.8

**SPECIFICATION REFERENCE:**  
The specifications for Highway Construction, dated July 1, 1947, and submitted for approval by the Division Engineer of the Bureau of Public Roads October 15, 1947, as modified by "supplement 1" thereto dated April 15, 1953, and submitted for approval by the Division Engineer of the Bureau of Public Roads on March 25, 1953, shall govern.

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.

*[Signature]*  
DATE 3/22/55 REG. NO. 2865

**MINN. PROJ. S 6374 (1)**

DESIGN SPEED 50 MPH  
STA. 0+00 TO STA. 101+7 STA. 113 TO STA. 219+14.8

DESIGN SPEED 40 MPH  
STA. 101+80 TO STA. 143

PLANNED BY E. S. VEVEA 1955  
COUNTY ENGINEER FOR ANOKA COUNTY

RECOMMENDED FOR APPROVAL [Signature] 1955  
DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL \_\_\_\_\_ 19\_\_\_\_

APPROVED [Signature] 1955  
ENGINEER OF COUNTY DESIGN

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

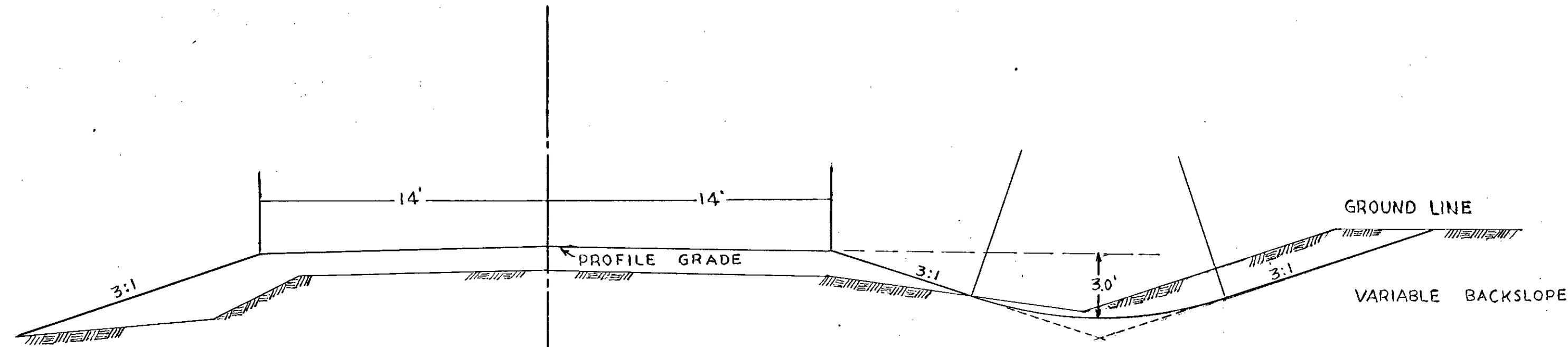
APPROVED \_\_\_\_\_  
DISTRICT ENGINEER DATE \_\_\_\_\_

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	1.50
2101.502	CLEARING	TREE	6
2101.506	GRUBBING	ACRE	1.50
2101.507	GRUBBING	TREE	7
2104.501	REMOVE PORTABLE CULVERTS	LIN. FT.	84
2104.510	REMOVE FENCE	LIN. FT.	8879
2105.503	CLASS "C" EXCAVATION	CU. YD.	50,052
2501.536	INSTALL S.C. CULVERTS	LIN. FT.	62
2109.501	OBLITERATING OLD ROAD	ACRE	0.69
2501.501	PIPE CULVERT EXCAVATION	CU. YD.	129
2501.511-15	FURNISH & INSTALL 15" C.M.P. CULVERTS	LIN. FT.	706
2501.511-18	" " " 18" C.M.P. "	LIN. FT.	44
2501.521-18	FURNISH & INSTALL 18" S.C.P. CULVERTS	LIN. FT.	20
2501.521-24	" " " 24" S.C.P. "	LIN. FT.	322
2501.521-42	" " " 42" S.C.P. "	LIN. FT.	12
2501.551	SAND-GRAVEL BACKFILL	CU. YD.	258
* 2574.501	ROADSIDE SEEDING	ACRE	19.65
* 2575.511	MULCH ADMIXTURE TYPE I	TON	30

\* 2574.501 SEED SHALL BE FURNISHED BY CONTRACTOR @ 60 LBS. PER ACRE  
 \* 2575.511 MULCH COMPUTED AT THE RATE OF 2 TONS PER ACRE (FOR SHOULDER SLOPES IN ACCORDANCE WITH SPEC. NO. 2515.38 - MIX WITH SOIL PRIOR TO SEEDING.)

TYPICAL GRADING SECTIONS



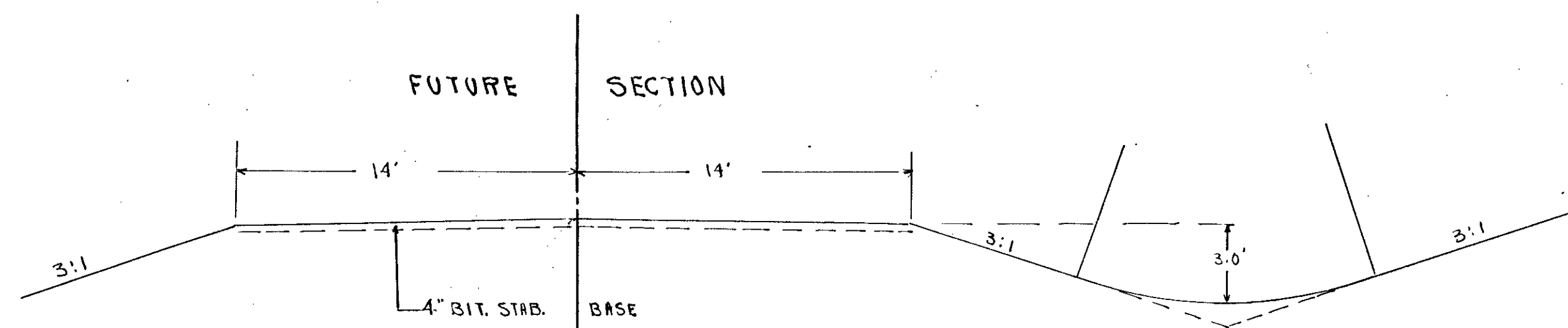
SPECIAL DETAILS

**SUPERELEVATED CURVES**  
 ALL CURVES FOR WHICH NO SUPERELEVATION HAS BEEN PROVIDED IN THE PLAN SHALL BE SUPERELEVATED IN ACCORDANCE WITH DESIGN STANDARDS DURING CONSTRUCTION.

ROADBED TO BE BLADED TO 1/4" PER FOOT PITCH DURING FINISHING OPERATION

THE UPPER 1.0' OF NATURAL SOIL IS CONSIDERED UNSUITABLE FOR USE IN THE UPPER 1.0' OF ROADWAY. THE UPPER PORTION OF THIS LAYER SHALL BE USED TO COVER DITCH BOTTOMS AND SLOPES. THE REMAINDER TO BE PLACED BELOW THE UPPER 1.0' OF EMBANKMENT.

TYPICAL BASE & SURFACE SECTIONS



STANDARD DETAIL PLATES

Standard Detail Plates Approved by THE Bureau of Public Roads  
 Shall Apply on this Project.

PLATE NO.	STANDARD DETAIL PLATES
9000	APPROACHES & ENTRANCES
3000-3001	S. C. CULW PIPE

PLAN  
 SURVEYED  
 PLOTTED  
 CHECKED  
 DATE  
 NAME  
 NO.

PROFILE  
 DRAWN  
 CHECKED  
 DATE  
 NAME  
 NO.

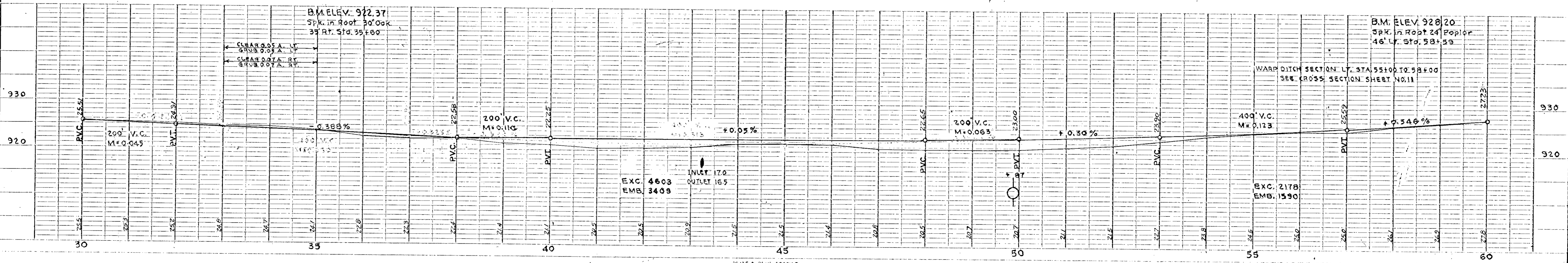
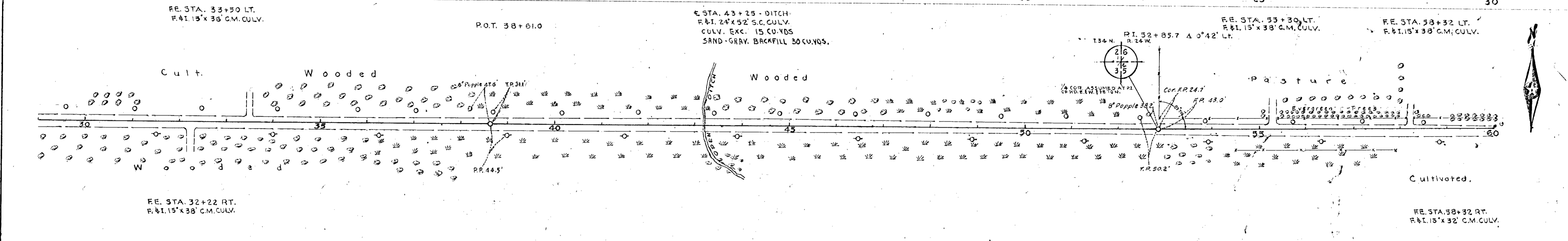
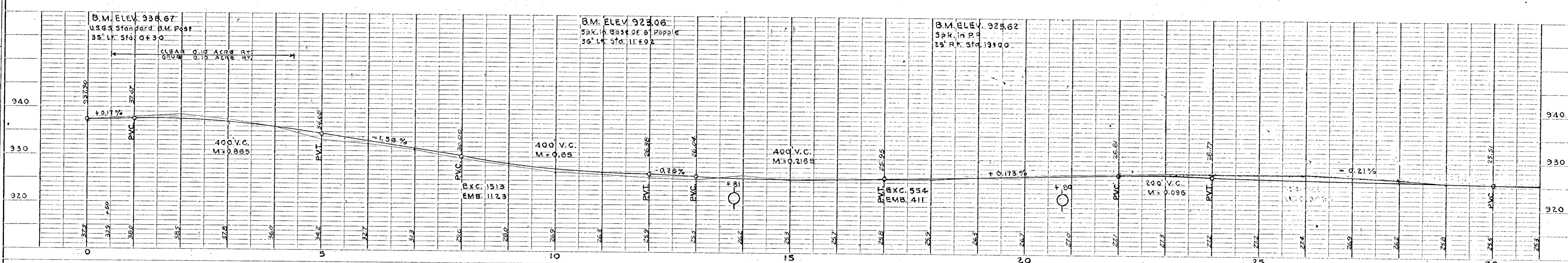
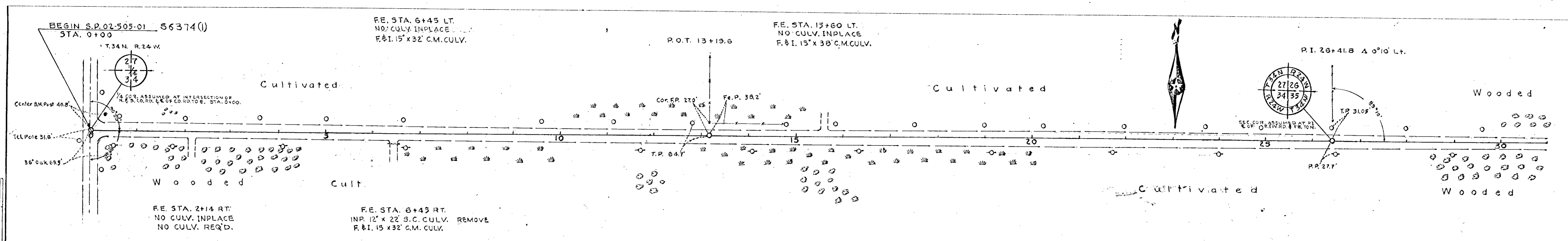
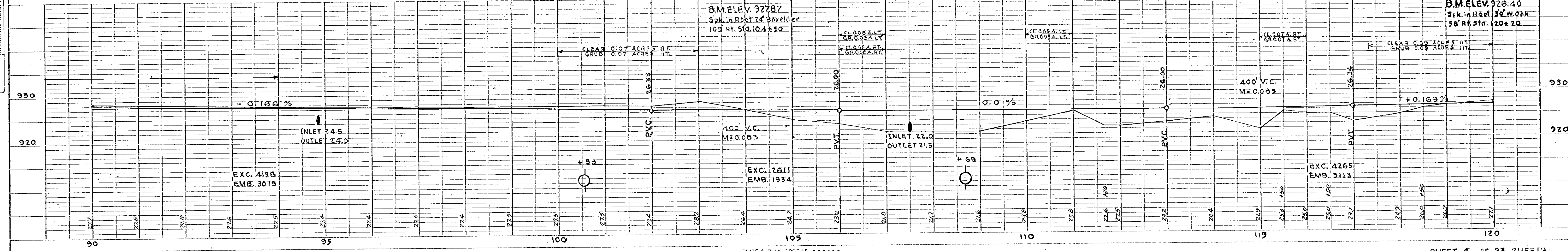
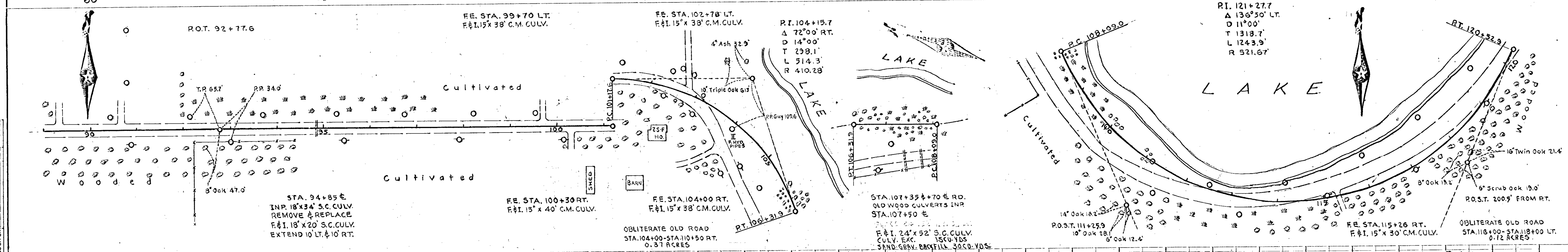
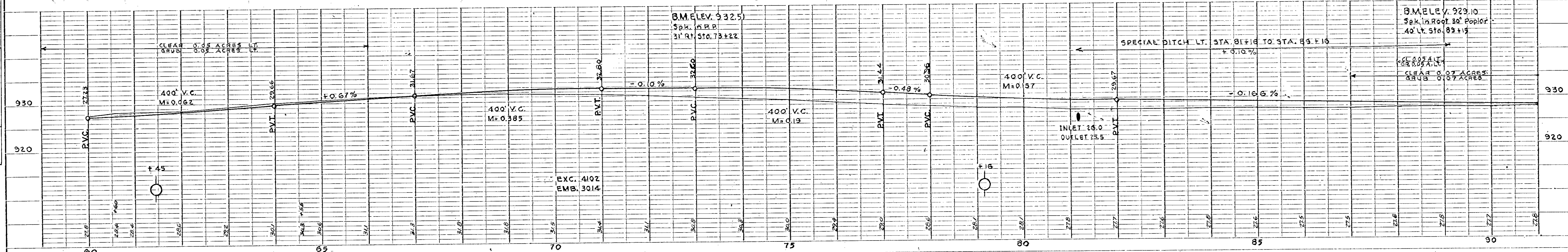
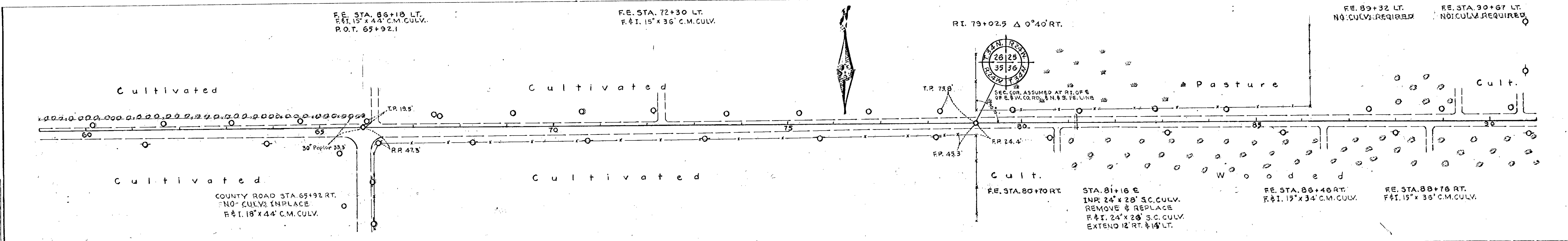
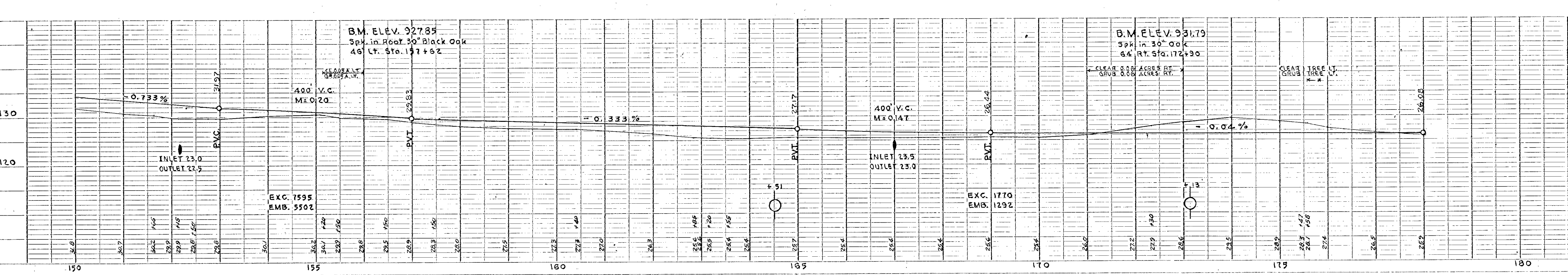
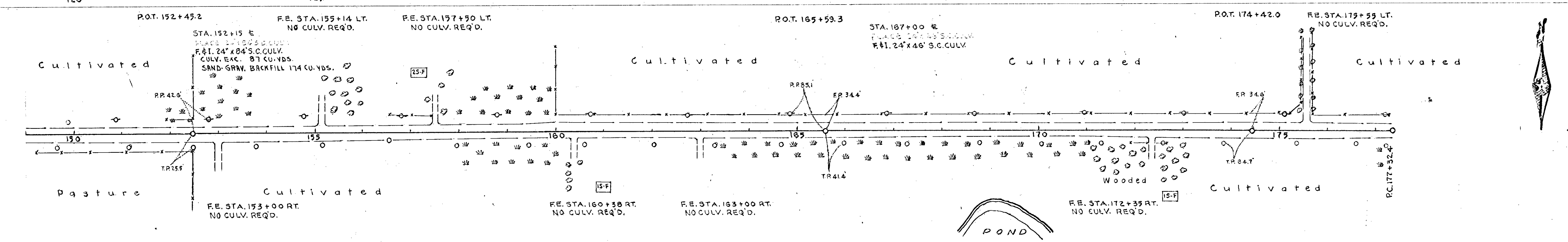
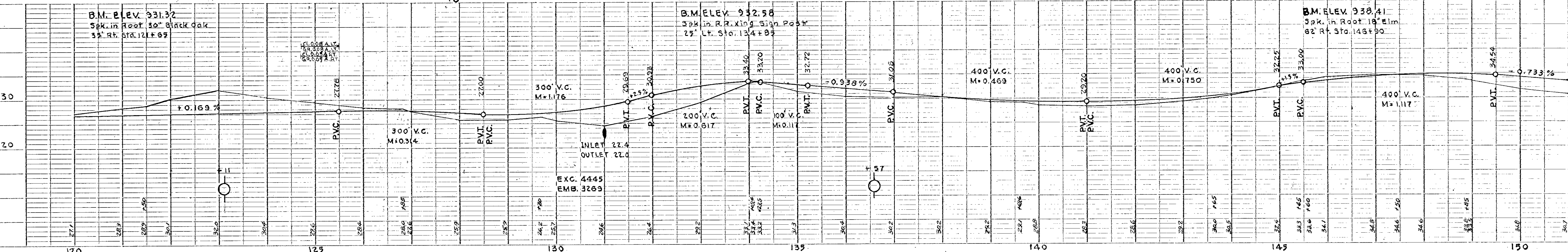
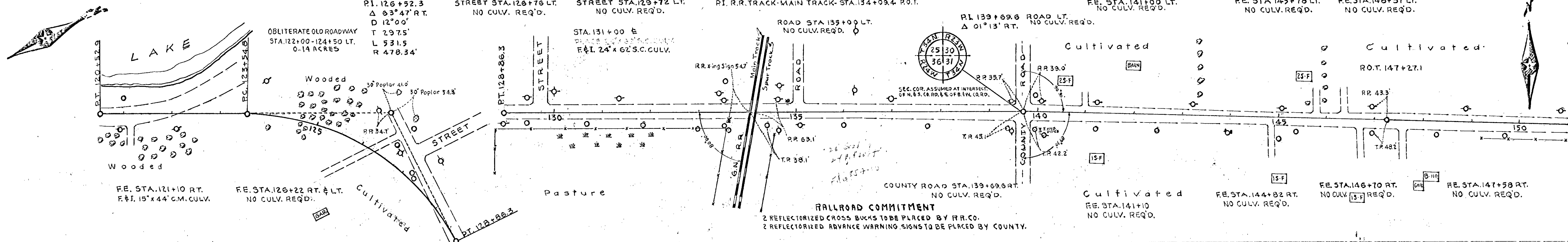


PLATE 2-PLAN-PROFILE DRAWING  
 SLOPES SHOWN ON PROFILE

PLAN  
 SURVEYED  
 ALIGNED  
 CHECKED  
 RT. OF WAY CHECKED  
 NO.

PROFILE  
 SURVEYED  
 PLOTTED  
 GAMES/ENGINE  
 NOTEBOOK  
 STRUCTURE NOTATION CHECKED  
 NO.





PLAN

DATE	
NO.	
NO.	

PROFILE

DATE	
NO.	
NO.	

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 ALIGNMENT CHECKED: \_\_\_\_\_  
 NO. OF T.M. CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 B.M. & NOTES: \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECK: \_\_\_\_\_

