

UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF TRANSPORTATION

MONTANA HIGHWAY CONSTRUCTION DIVISION
RECEIVED

OCT 23 1972

HELENA, MONTANA

DATE: October 24, 1972

In reply refer to 08-24.8 CS

TO: Montana Department of Highways
Helena, Montana 30-GOPFROM: Jerry Budwig, Chief
Federal Highway Projects Division
Denver, ColoradoBy: Lyle C. Maus *LCM*
Construction Supervisor
Helena, MontanaSUBJECT: Glacier National Park Routes 4 and 14
Chief Mountain Road and Approach
As - Constructed Plans

Submitted for your information is one set of as - constructed plans
for the subject project.

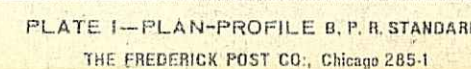
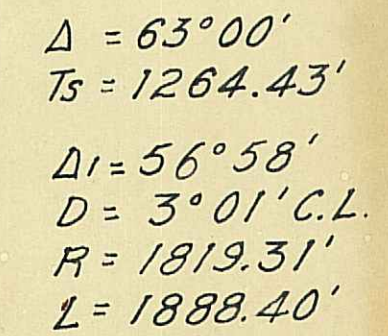
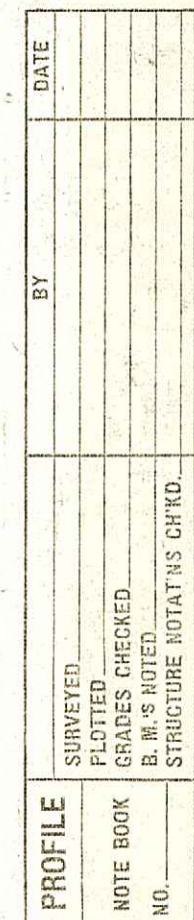
Date Recd. Preconst. 10-24-72

Act	Info	MAIL ROUTE	Attach	Initial
		30 GOP AMH		
		30 Field Design		
		30 Surveying Design		
		31 Office Engineers		
		32 West Region		
		32 Landscape		
		33 East Region		
		34 Hydrology		
		35 Planning		
		37 Field Design		
		38 Consultant Design		
		File		

Act	Info	MAIL ROUTE	Attach	Initial
		30 GOP AMH		
		30 Field Design		
		30 Surveying Design		
		31 Office Engineers		
		32 West Region		
		32 Landscape		
		33 East Region		
		34 Hydrology		
		35 Planning		
		37 Field Design		
		38 Consultant Design		
		File		



BUY U.S. SAVINGS BONDS REGULARLY ON THE PAYROLL SAVINGS PLAN

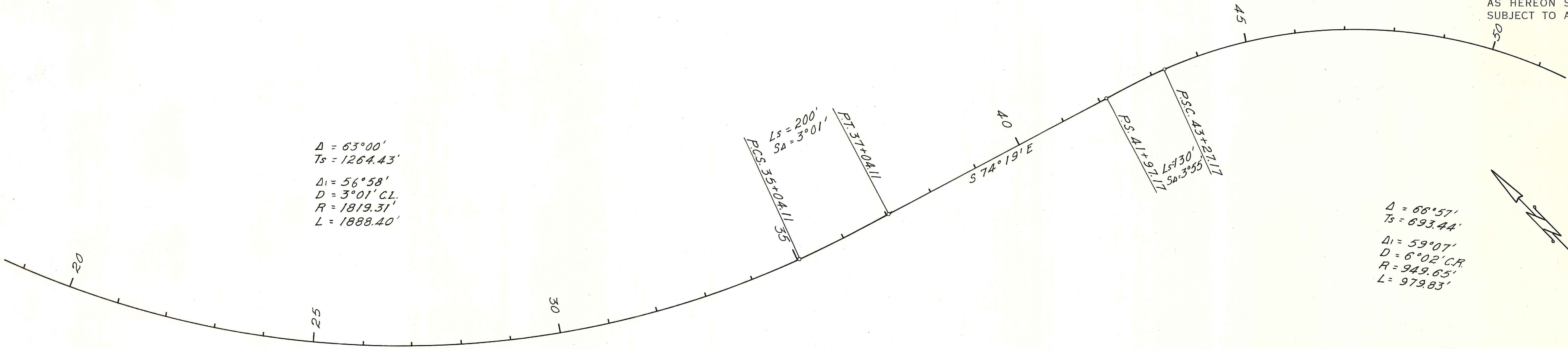


GLACIER NATIONAL PARK

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	4	A4	26

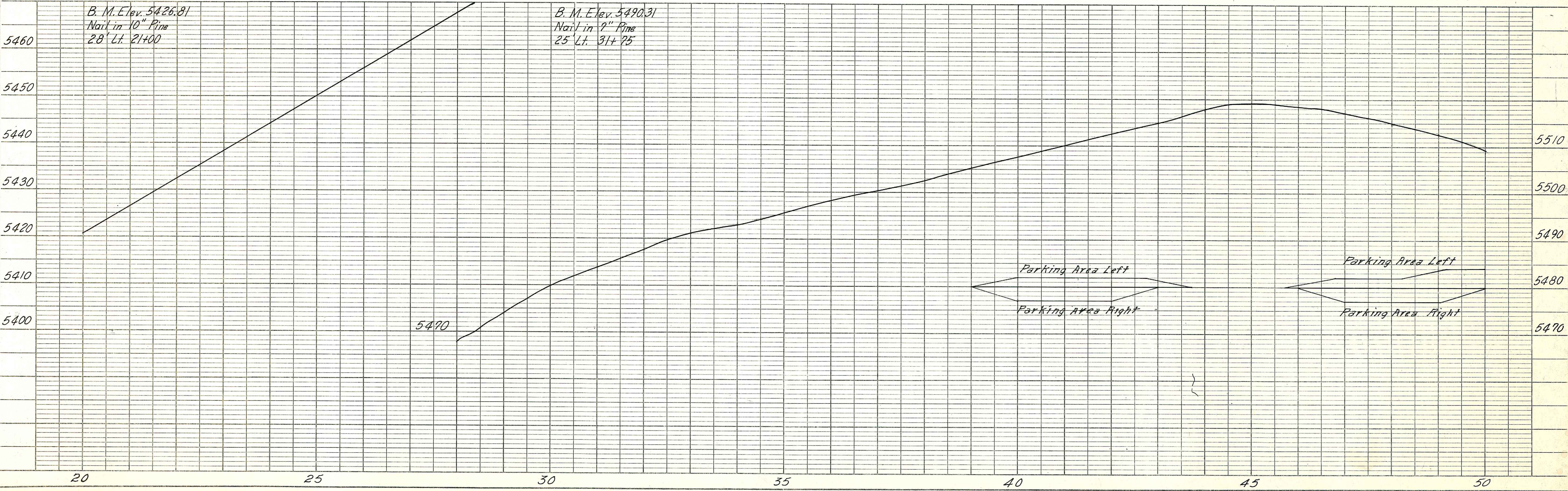
THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT

PLAN		DATE	
SURVEYED	BY	1959	
		1959	
PLOTTED	B. A. Frame " " " "		
ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
NO. <i>Traced</i>		10-1959	



Unsurveyed Land
Section 1
T 35N R 16W M. P. M.

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

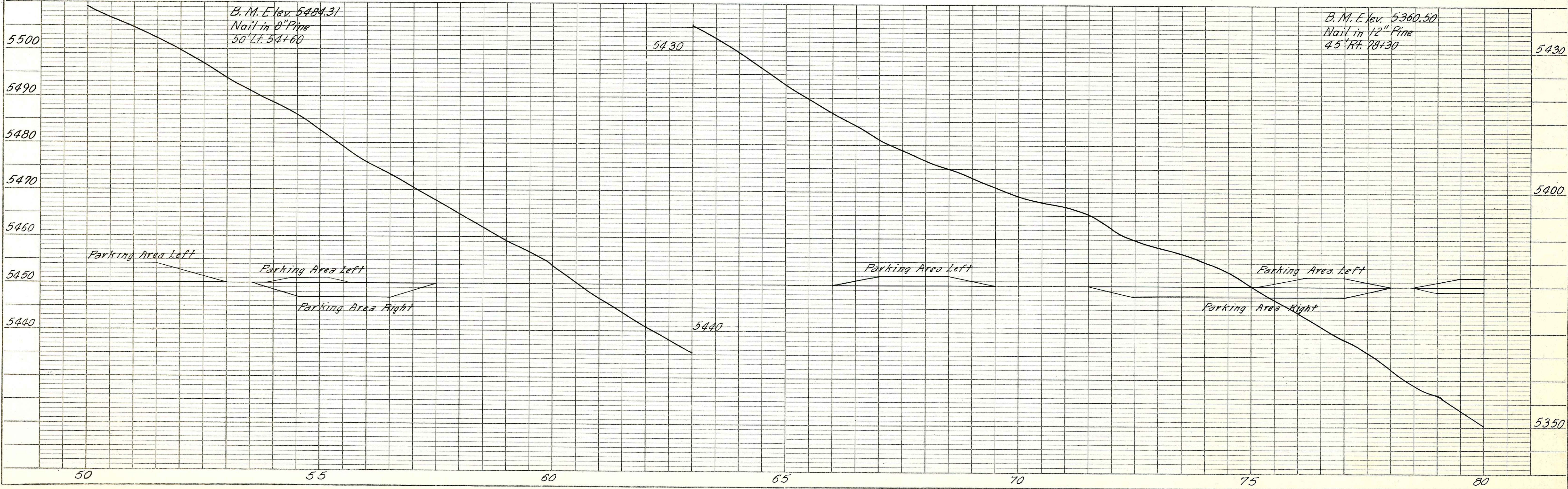
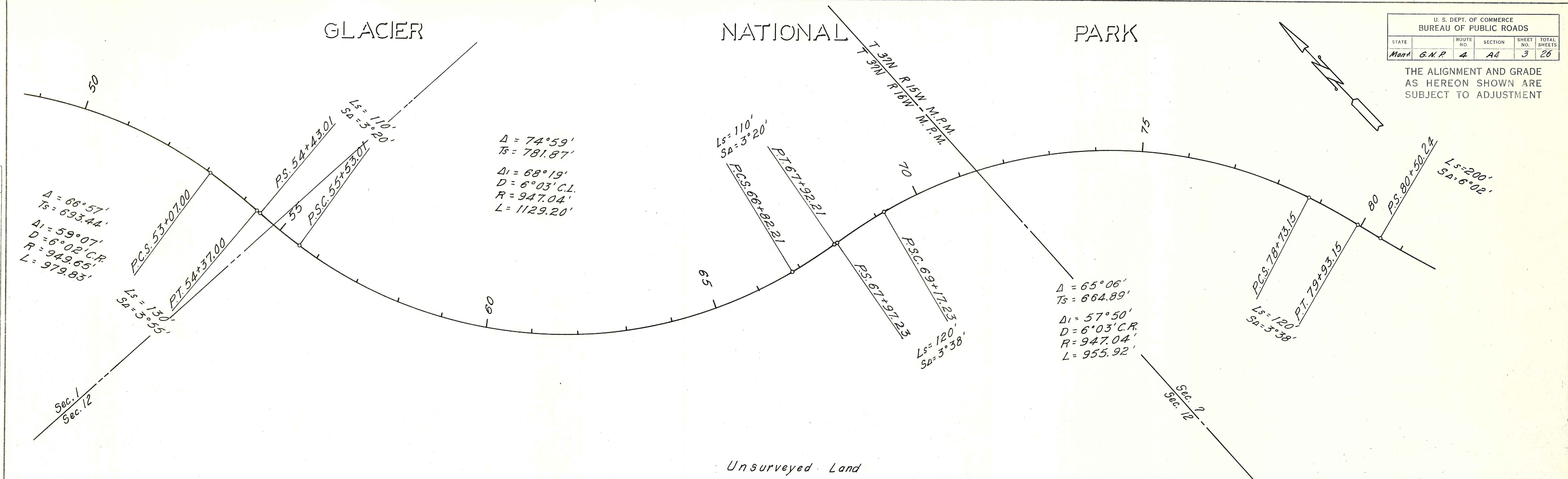


PLAN	DATE	BY	DATE
SURVEYED	1948	R. A. Frame	1948
PLANNED	1948	"	"
NOTED	1948	"	"
NO.		A. J. S. Frost	1948

PROFILE	DATE	BY	DATE
SURVEYED			
PLANNED			
NOTED			
NO.			

STATE	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	4	A4	3

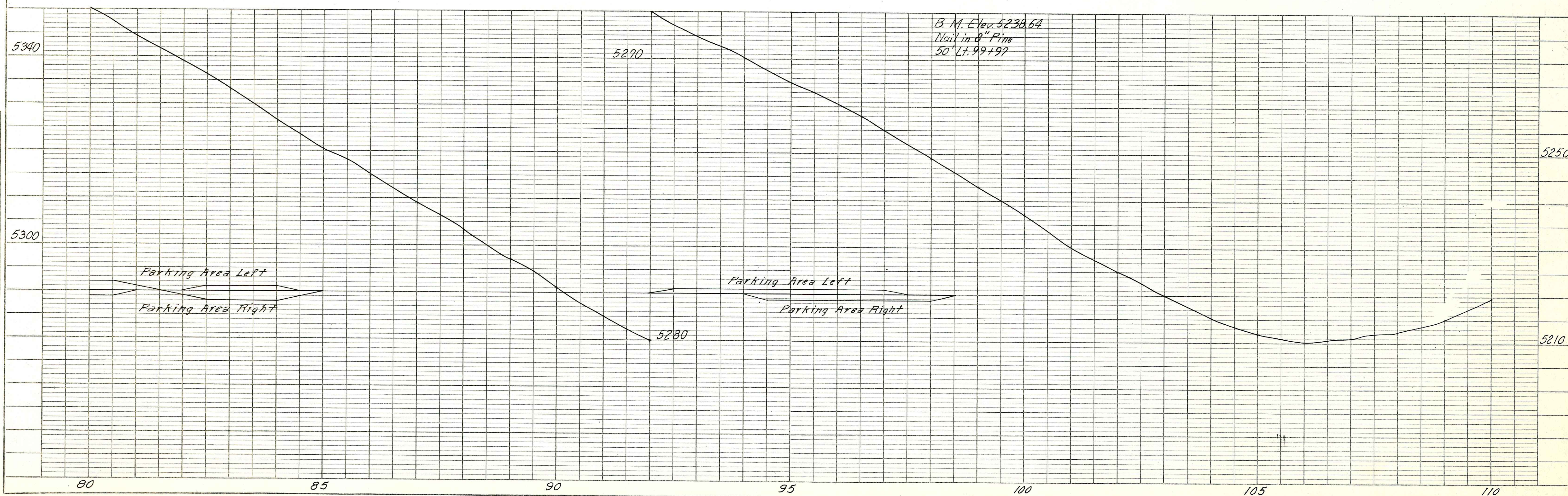
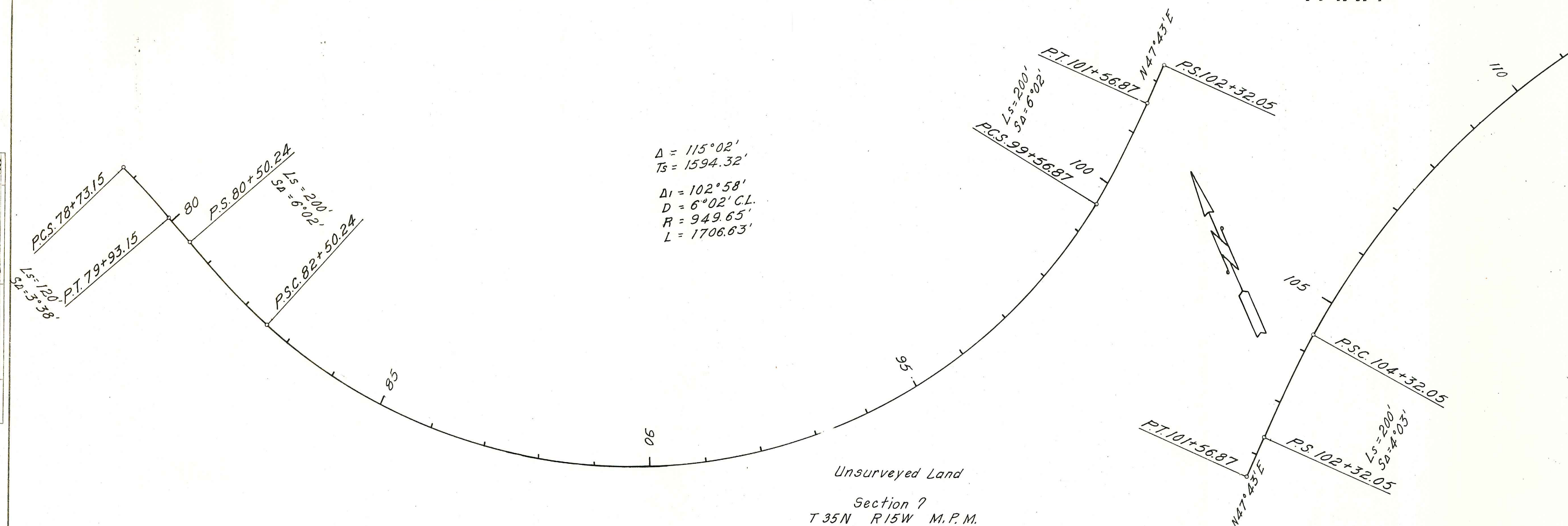
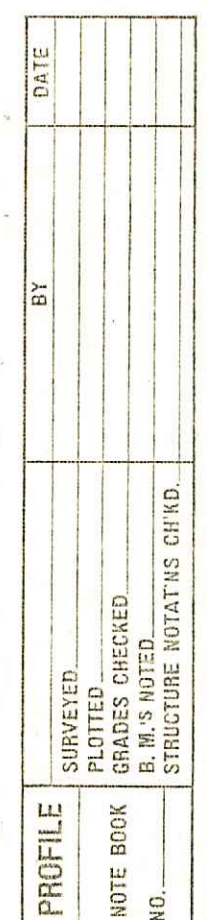
THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

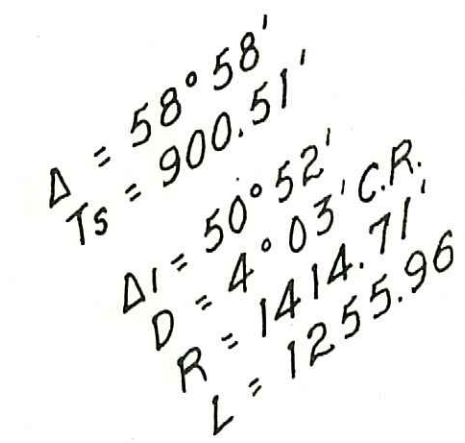


PARK

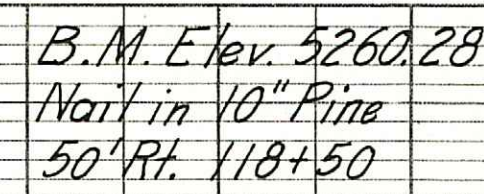
THE ALIGNMENT AND GRADE.
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT

THE ALIGNMENT AND GRADE.
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT





Unsurveyed Land
T 37N R 15W M. P. M.



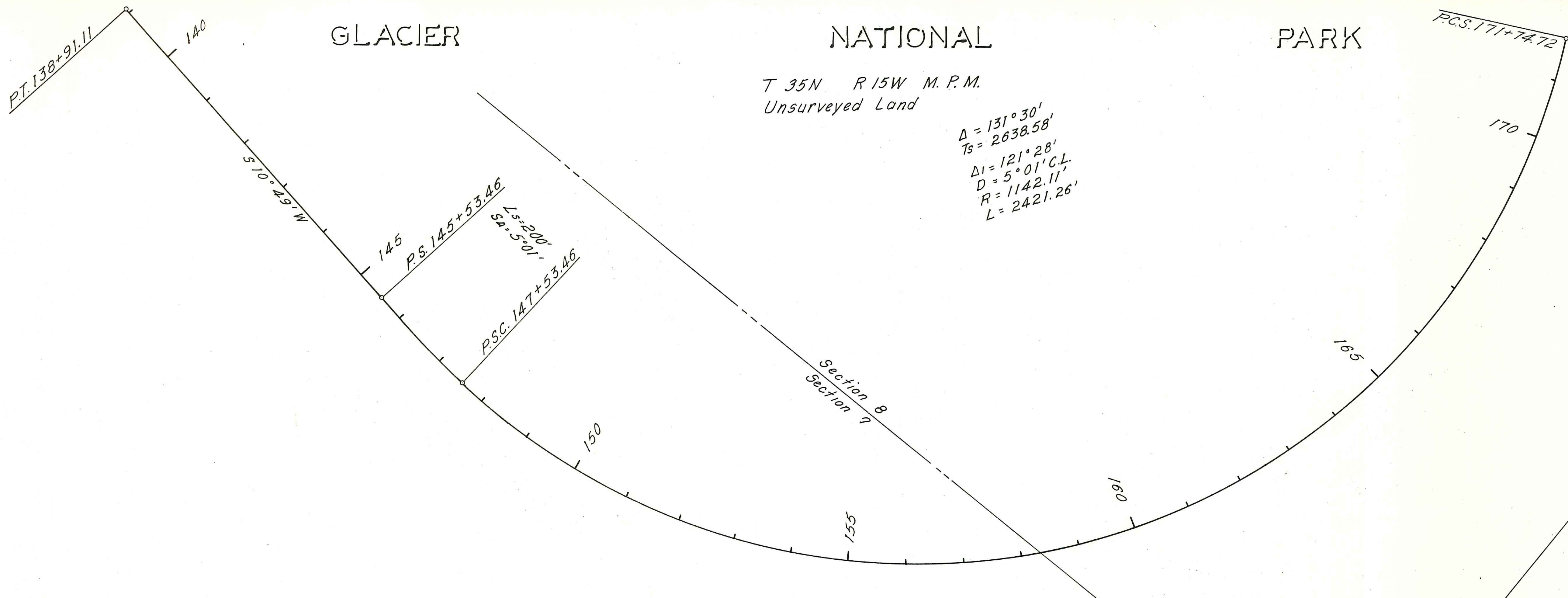
Elev. 5293.00
1200' V.C.

Elev. 5259.59

2" Crushed Aggregate Base, Grading E 3/8" Bit Mat Surfacing
8" Crushed Aggregate Base, Grading B

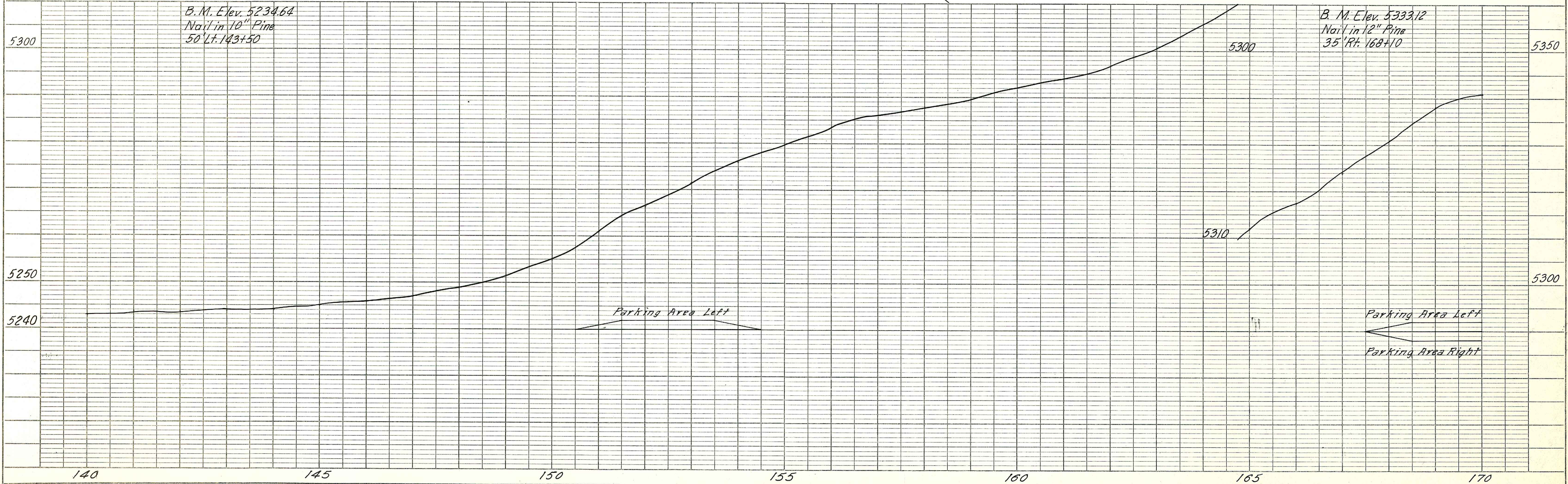
PLAN	DATE
NO.	1958
NOTE BOOK	BY
NO.	R.A. Flame
SURVEYED	DATE
PLOTTED	1959
ALIGNMENT CHECKED	BY
GRADE CHECKED	R.A. Flame
FIELD CHECKED	DATE
FIELD CHECKED	10-1959

PROFILE	DATE
NO.	1958
NOTE BOOK	BY
NO.	R.A. Flame
SURVEYED	DATE
PLOTTED	1959
ALIGNMENT CHECKED	BY
GRADE CHECKED	R.A. Flame
FIELD CHECKED	DATE
FIELD CHECKED	10-1959



U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	4	A4	6 26

THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT



GLACIER

NATIONAL

PARK

STATION 186+26.32
END PROJECT NO. 4-A4
BEGIN PROJECT NO. 14-A

$\Delta = 131^{\circ}30'$
 $Ts = 2638.58'$

$\Delta_1 = 121^{\circ}28'$
 $D = 5^{\circ}01' \text{ C.L.}$
 $R = 1142.11'$
 $L = 2421.26'$

P.C.S. 171+74.72

$Ls = 200'$
 $Sa = 5^{\circ}01'$

P.T. 173+74.72

180

P.S. 180+171.2

$Ls = 700'$
 $Sa = 9^{\circ}37\frac{1}{2}'$

185

$65^{\circ}57'$

P.S.C. 187+121.2

190

$\Delta = 40^{\circ}04'$
 $Ts_1 = 1105.49'$
 $Ts_2 = 1018.84'$

$\Delta_1 = 23^{\circ}34'$
 $D = 2^{\circ}45' \text{ C.R.}$
 $R = 2083.48'$
 $L = 856.97'$

GLACIER
BLACKFEET
NATIONAL
INDIAN
PARK
RESERVATION

T 35N R 15W M. P. M.

E 1/2, Section 8
Unsurveyed Land

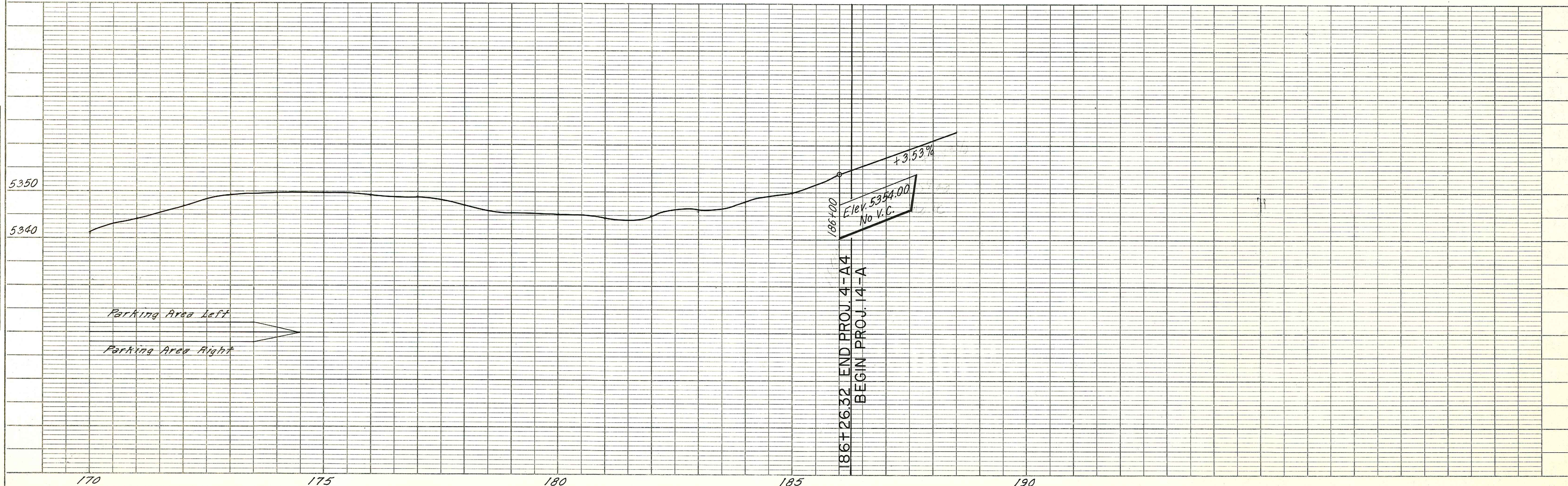
W 1/2, Section 8
Tribal Land

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P. 4	A4	7	26

THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT

PLAN	DATE	BY	DATE	BY
NO. 1	1959	H. A. Flanagan	1959	H. A. Flanagan
NO. 2	1959	L. J. B. Frost	1959	L. J. B. Frost

PROFILE	DATE	BY	DATE	BY
NO. 1	1959	H. A. Flanagan	1959	H. A. Flanagan
NO. 2	1959	L. J. B. Frost	1959	L. J. B. Frost



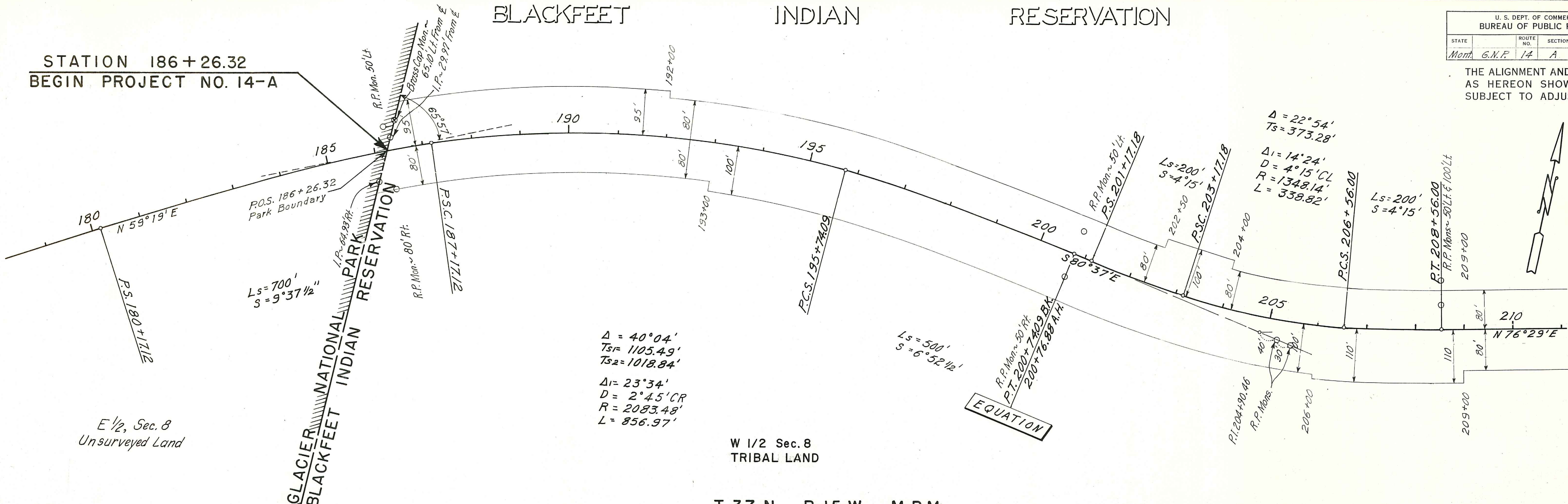
BLACKFEET INDIAN RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.F. 14	A	8	26

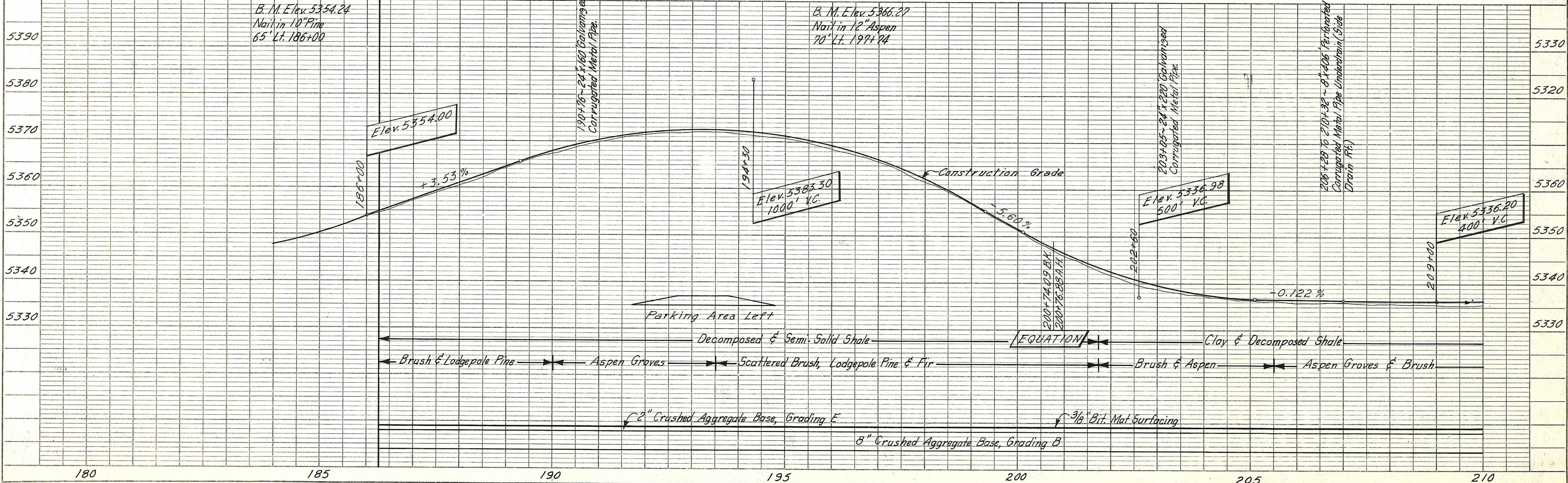
THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

STATION 186+26.32
BEGIN PROJECT NO. 14-A

PLAN	NO.	NOTE BOOK	SURVEYED	BY	DATE
				R.A. Franks	1932
				L.Z.B. Frost	1932

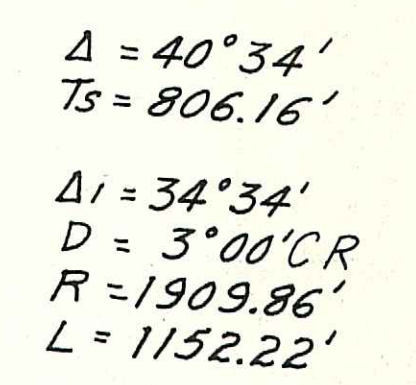


PROFILE	NO.	NOTE BOOK	SURVEYED	BY	DATE
				R.A. Franks	1932
				L.Z.B. Frost	1932



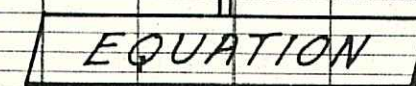
U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS					
STATE		ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	14	A	9	26

PLAN	SURVEYED	BY	DATE
NOTE BOOK	FLIGHT CHECKED	<i>B. A. Frooms</i>	<i>1958</i>
NO.	WT. OF WAX CHECKED	<i>" "</i>	<i>1959</i>
	<i>Flashed</i>	<i>L. E. B. Frost</i>	<i>2-1959</i>



EQUATION

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

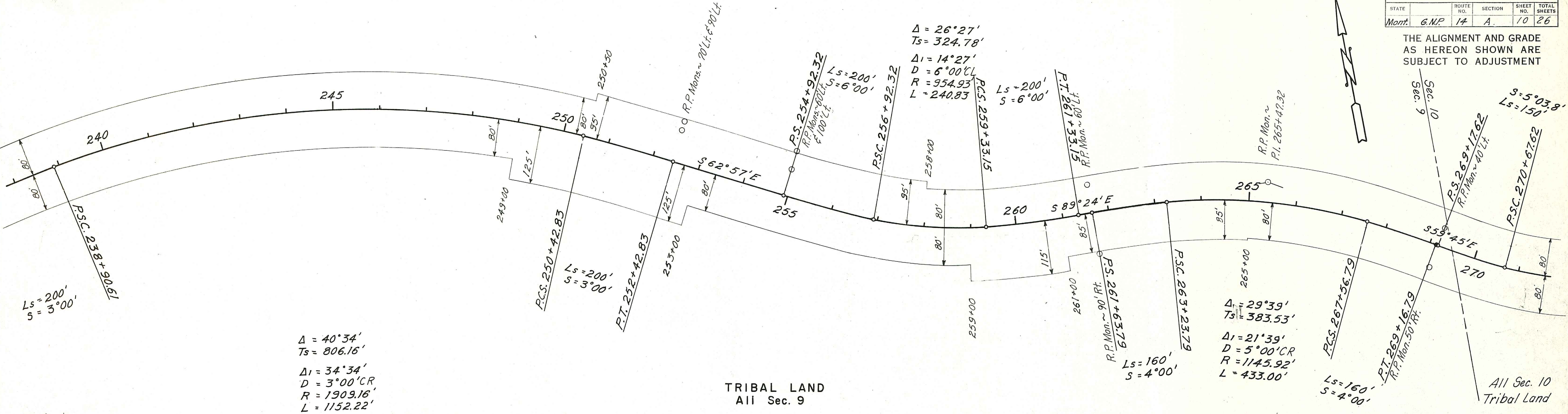


BLACKFEET INDIAN RESERVATION

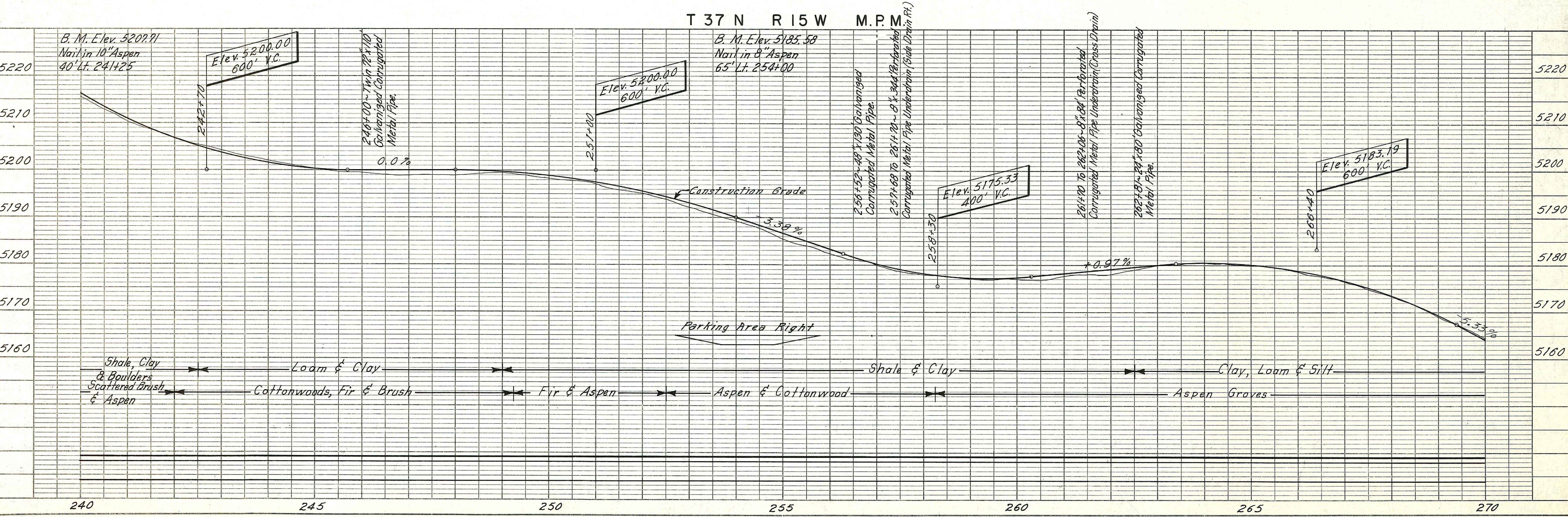
U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	14	A.	10 26

THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

PLAN	DATE	BY
SURVEYED	1952	R. A. Evans
PLANNED	11	11
NOTE BOOK		
NO.		



PROFILE	DATE	BY
SURVEYED		
PLANNED		
NOTE BOOK		
NO.		



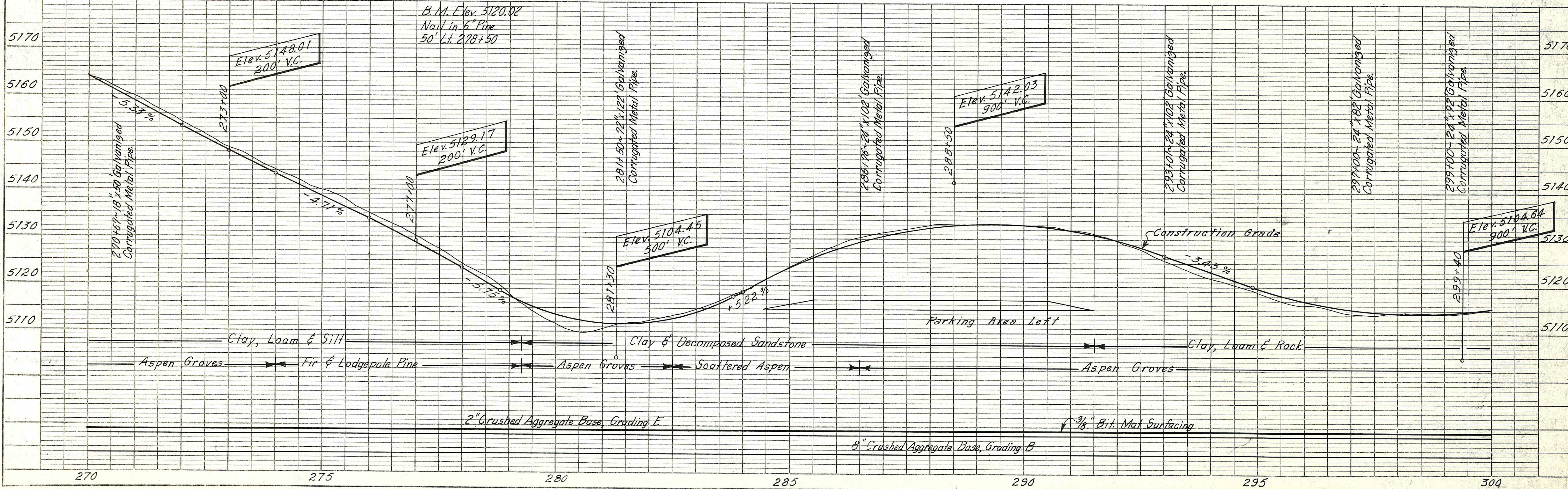
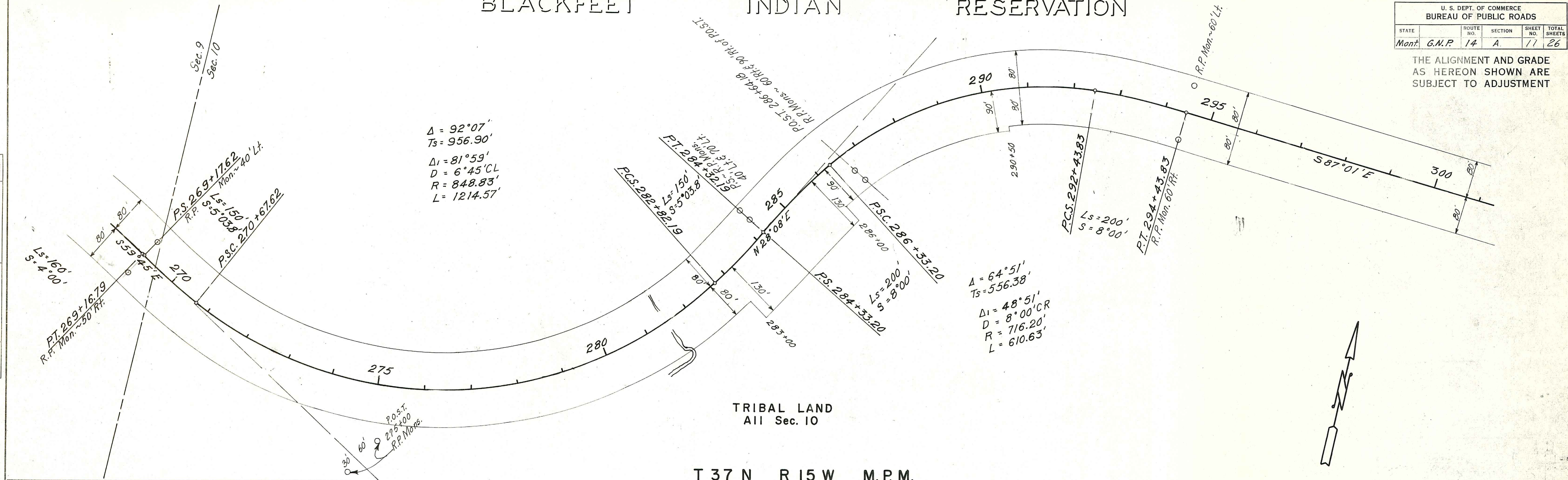
BLACKFEET INDIAN RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.M.P.	14	A	26

THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

PLAN	NO.	NOTE BOOK	SURVEYED	BY	DATE
				R.A. Adams	1929
				L.I.B. FINEY	7-1929

PROFILE	NO.	NOTE BOOK	SURVEYED	BY	DATE



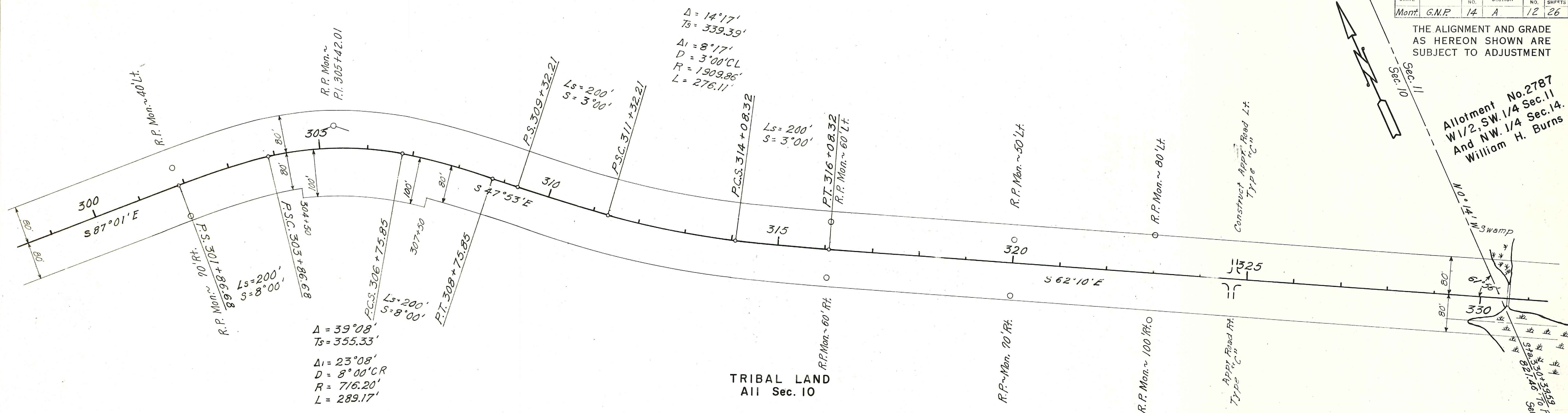
BLACKFEET INDIAN RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.R.	14	A	12 26

THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

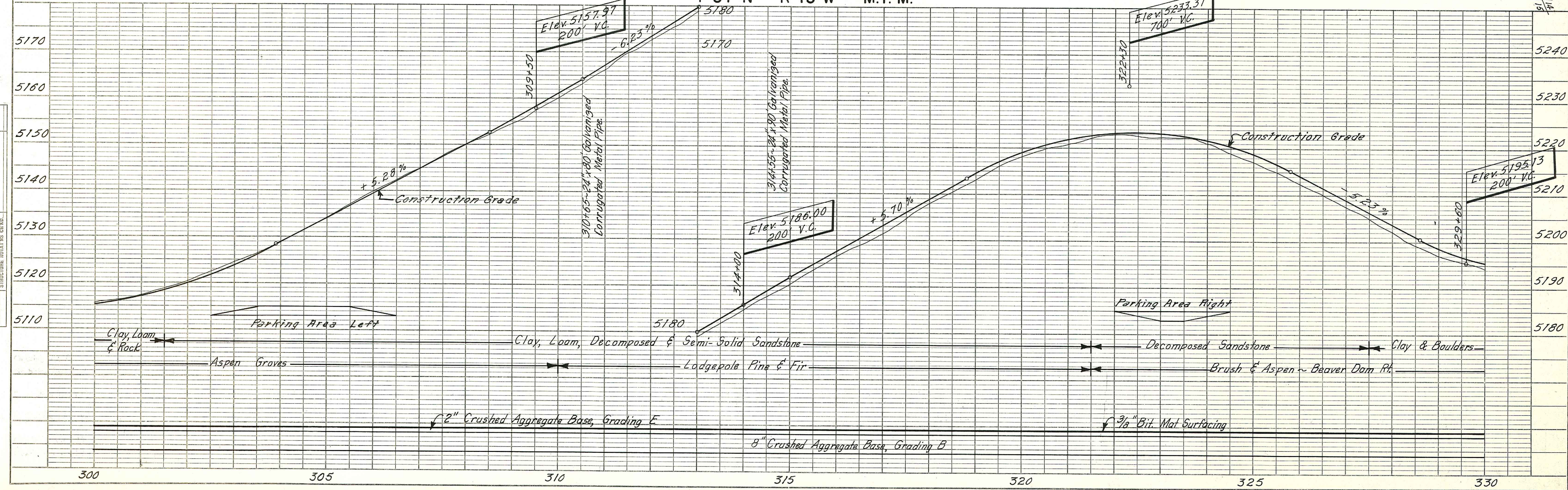
Allotment No. 2787
W 1/2, SW 1/4 Sec. 11
And NW 1/4 Sec. 14.
William H. Burns

PLAN	DATE
BY R. A. Evans	1948
NOTED BY L. I. B. Foster	7/12/48
NO.	2/1948



PROFILE	DATE
BY R. A. Evans	1948
NOTED BY L. I. B. Foster	7/12/48
NO.	2/1948

T 37 N R 15 W M.P.M.



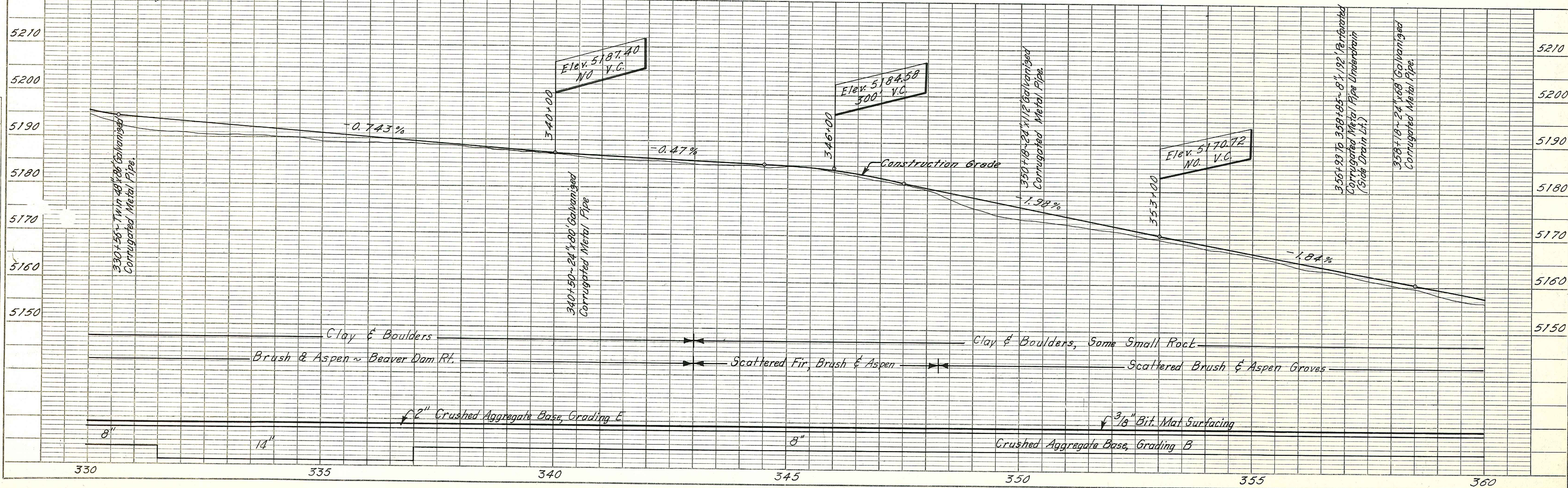
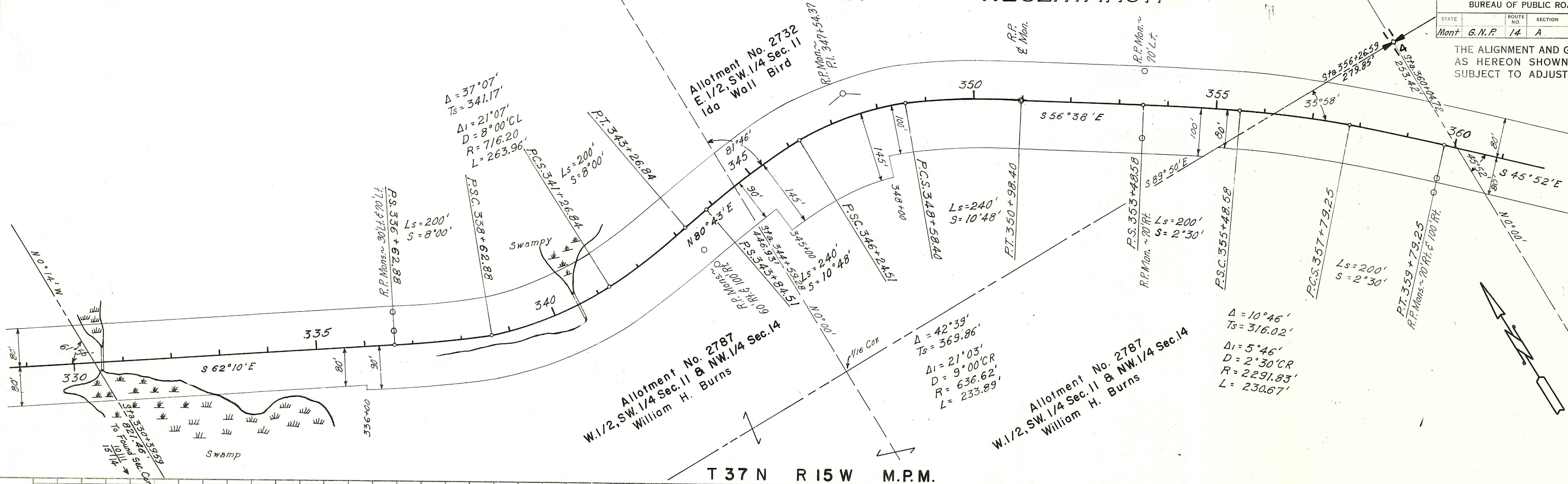
PLAN	DATE	BY
SURVEYED	1948	B. A. P. Adams
PLOTTED	"	"
NOTES CHECKED	"	"
BY OF WAY CHECKED	"	"
NO.	2-1949	L. J. A. P. Adams

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
NOTES CHECKED		
BY OF WAY CHECKED		
NO.		

BLACKFEET INDIAN RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont	G.N.P.	14	A	13 26

THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

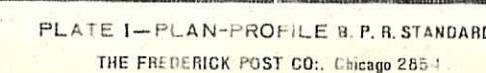
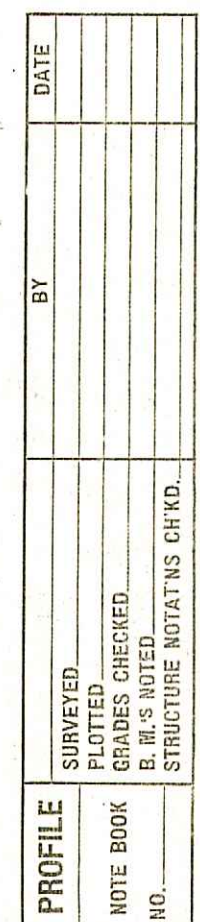


INDIAN

RESERVATION

3894 THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT

THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT



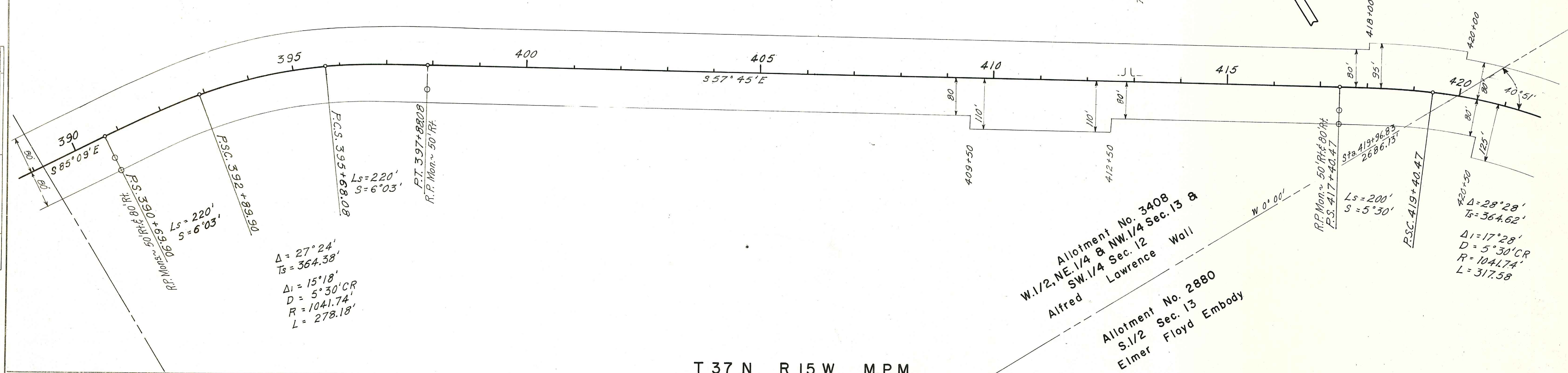
BLACKFEET INDIAN RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont	G.N.P.	14	A	15 26

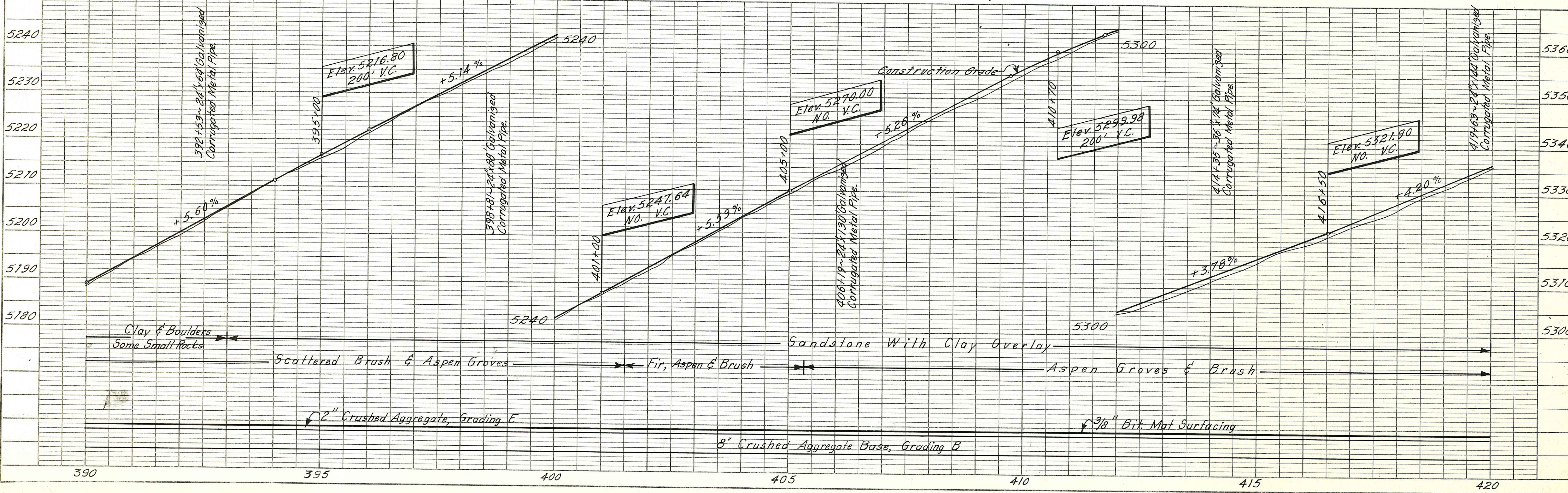
THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT

PLAN	DATE
SURVEYED	1928
PLOTTED	1928
BY	R.A. Frazar
NOTE BOOK	111
NO.	111
BY	L.T.B. Frazar
DATE	7/12/28

PROFILE	DATE
SURVEYED	1928
PLOTTED	1928
BY	R.A. Frazar
NOTE BOOK	111
NO.	111
BY	L.T.B. Frazar
DATE	7/12/28



T 37 N R 15 W M.P.M.

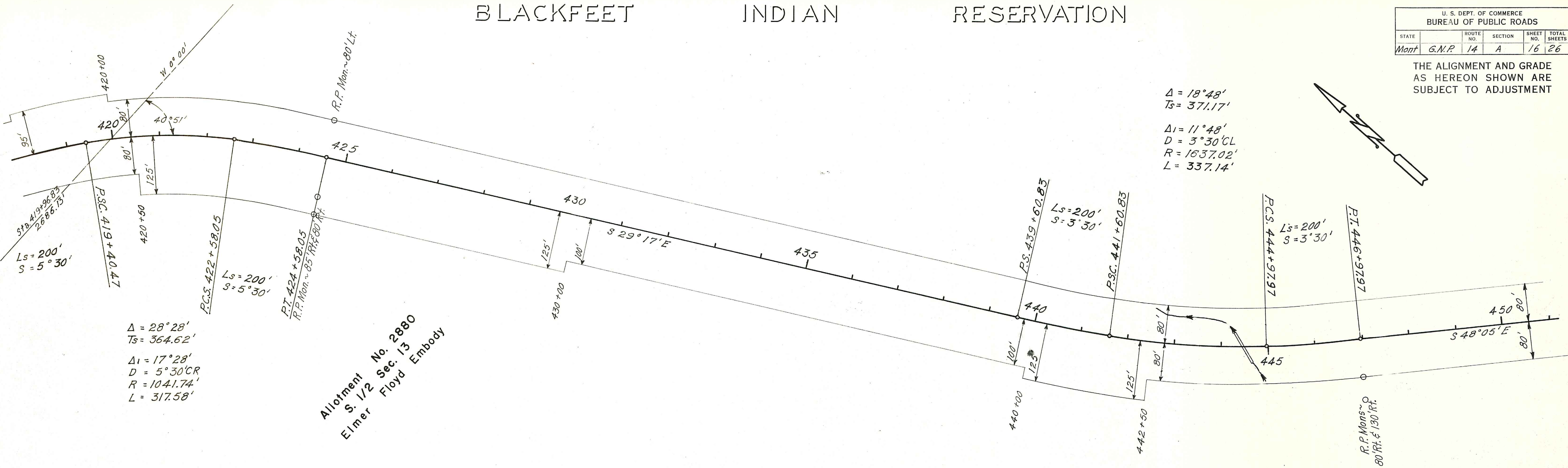


BLACKFEET INDIAN RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont	G.M.P. 14	A	16	26

THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT

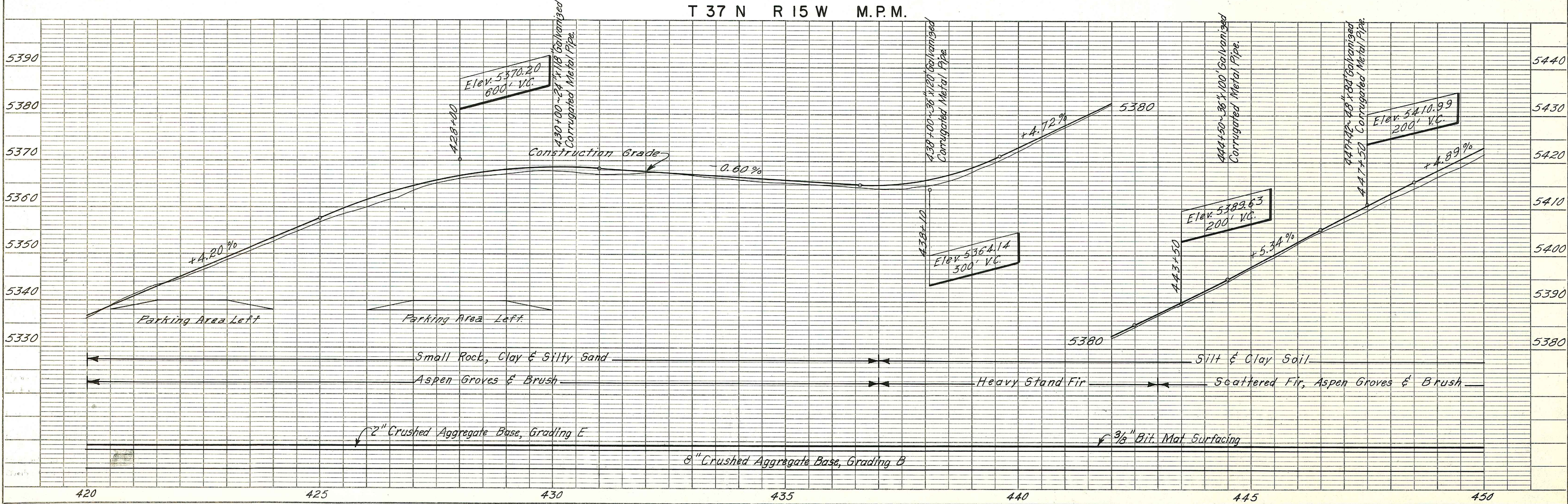
PLAN	DATE	BY
SURVEYED	1924	R.A. Flann
NOTE BOOK		"
ALIGNED		"
CHECKED		"
FILE OF WAY CHECKED		"
NO.		L.T. & Flint



Allotment No. 2880
S. 1/2 Sec. 13
Elmer Floyd Embury

T 37 N R 15 W M.P.M.

PROFILE	DATE	BY
SURVEYED		
GRADES CHECKED		
NOTE BOOK		
STRUCTURE NOTATIONS CHECKED		
NO.		



BLACKFEET

INDIAN

RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	14	A	17 26

THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT

Allotment No. 2880
S. 1/2 Sec. 13
Elmer Floyd Embody

Allotment No. 1494
SW. 1/4, SW. 1/4 Sec. 18
Broken Leg Coat

Allotment No. 949
NW. 1/4, NW. 1/4 Sec. 19
John Little Plume

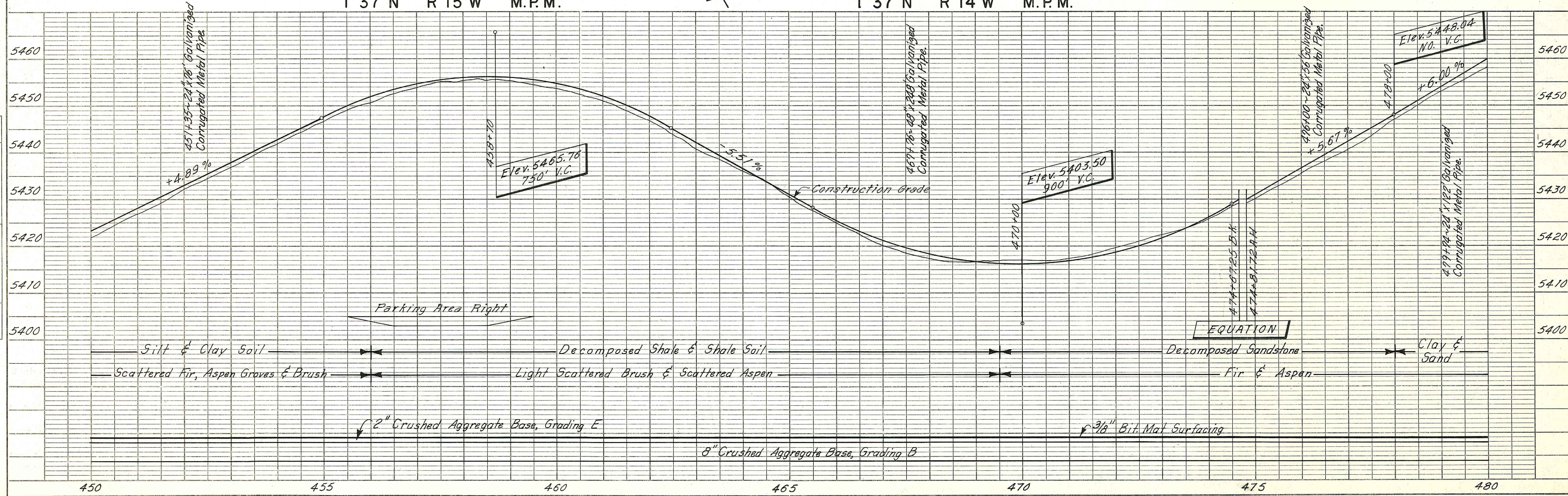
Allotment No. 1665
NE. 1/4, NW. 1/4 Sec. 19
Emma Yellow Wolf Little Plume

Allotment No. 950
S. 1/2 NW. 1/4 Sec. 19
George Little Plume

Allotment No. 2207
E. 1/2, NE. 1/4 Sec. 24
Emma Smith

T 37 N R 15 W M.P.M.

T 37 N R 14 W M.P.M.



PLAN	DATE	BY
SURVEYED	1948	R. A. Frazee
PLOTTED	1948	"
NOTED	1948	"
NO. OF WAY CHECKED		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
NOTED		
NO. OF WAY CHECKED		
NO.		

Allotment No. 951

INDIAN

RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS					
STATE		ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	14	A	18	26

THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT

(Patented)
 SE 1/4 Sec. 19 And
 SW 1/4 Sec. 20 And
 NE 1/2 NE 1/4 Sec. 30
 Thomas Powers
 Wyoming Montana

948
Allotment No.

Allotment No. 950

Allotment No. 3424
SE. 1/4 Sec. 19
Helen Martha Welch

Allotment No. 948
 SW.1/4, NE.1/4 Sec. 10
 Small Woman L^{ts}.

(SPUR)
 $\Delta = 11^{\circ}01'$
 $D = 2^{\circ}30' \text{ C.L.}$
 $T = 220.82'$
 $L = 440.67'$

Allotment No. 950
 S. 1/2 NW. 1/4 Sec. 19
 George Little Plume

T 37 N R 14 W M.P.M.

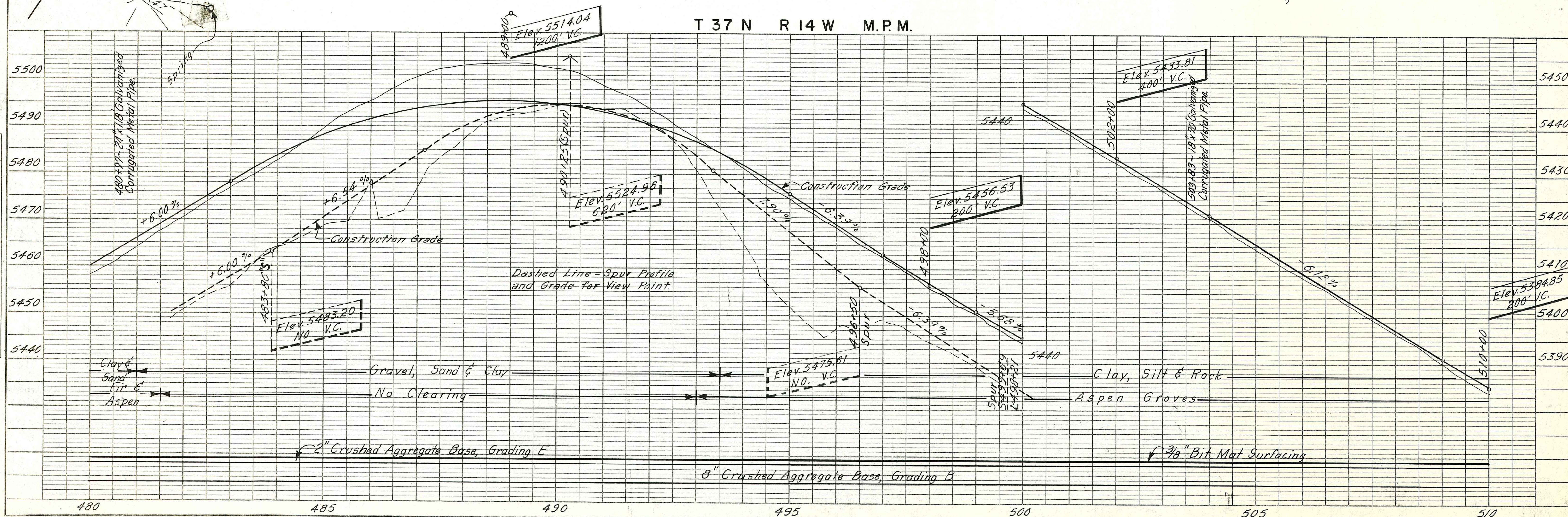


PLATE I—PLAN-PROFILE B. P. R. STANDARD
THE FREDERICK POST CO. Chicago 285-1

PLAN	SURVEYED ALIGNMENT CHECKED RT. OF WAY CHECKED	BY	DATE
NOTE BOOK		R. A. Flams	1958
NO.		" "	1959
		L. J. B. Frost	7-1959

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

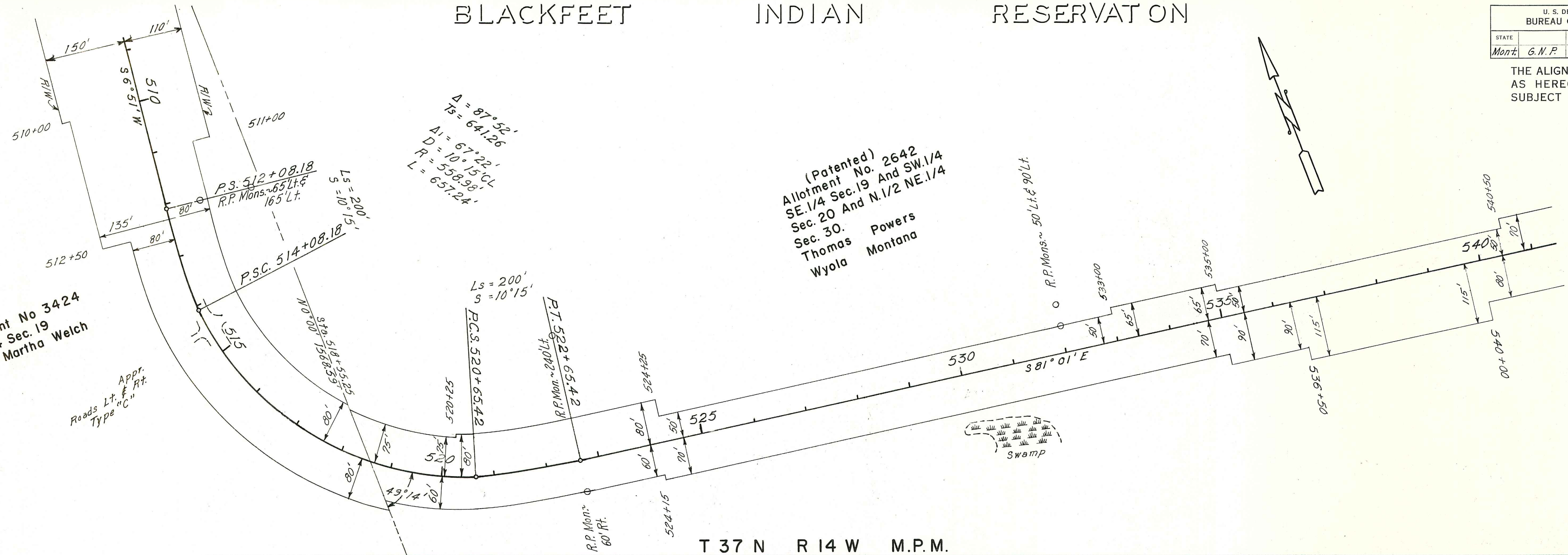
BLACKFEET INDIAN RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	14	A-	19 26

THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

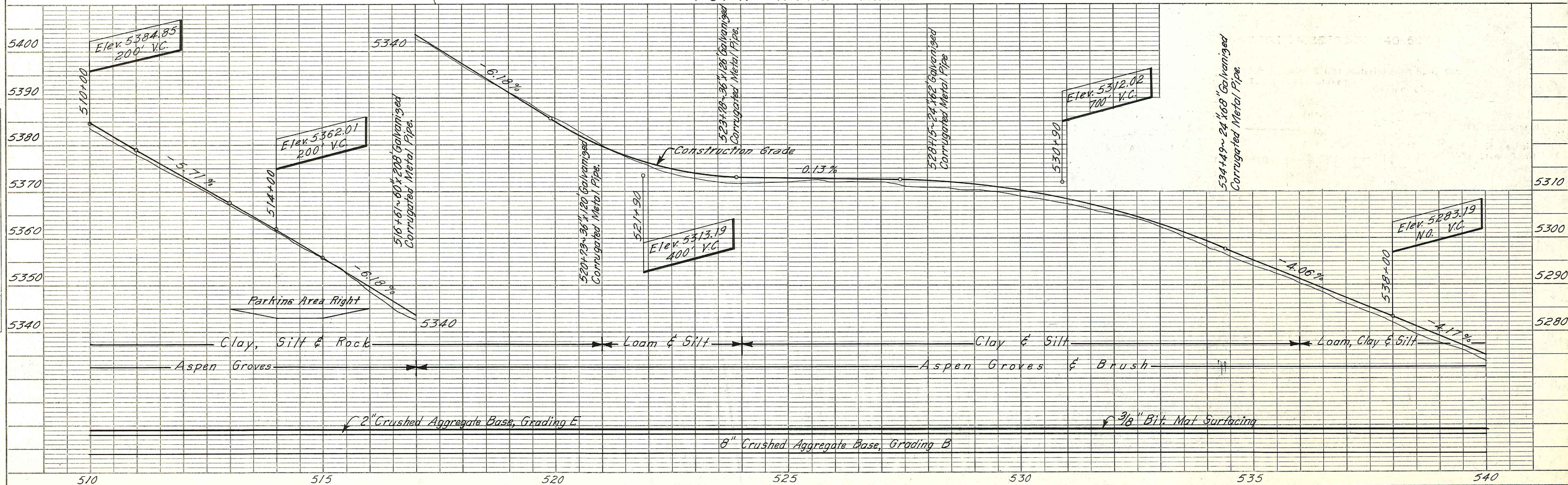
PLAN	NO.	DATE	BY
SUBMITTED		1956	R. A. Frazee
NOTED			
APPROVED			
BY			

Allotment No 3424
Sec. 1/4 Sec. 19
Helen Martha Welch



T 37 N R 14 W M.P.M.

PROFILE	NO.	DATE	BY
SUBMITTED			
NOTED			
APPROVED			
BY			

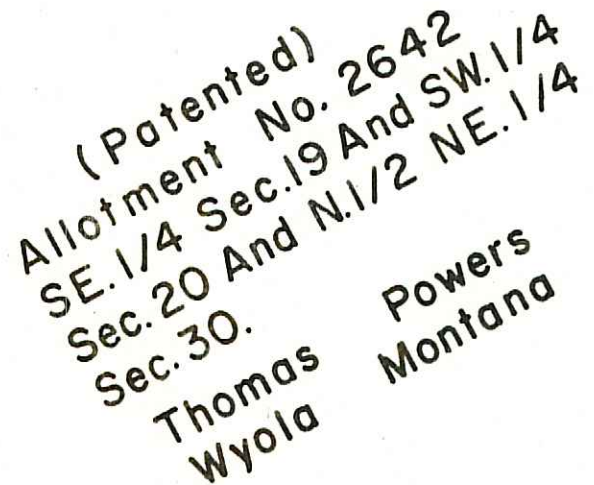
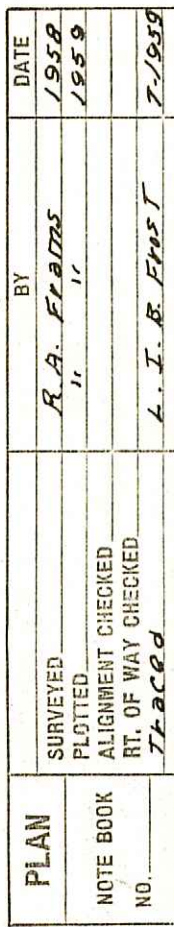


INDIAN *Red*

RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS					
STATE		ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont	G.N.P.	14	A	20	26

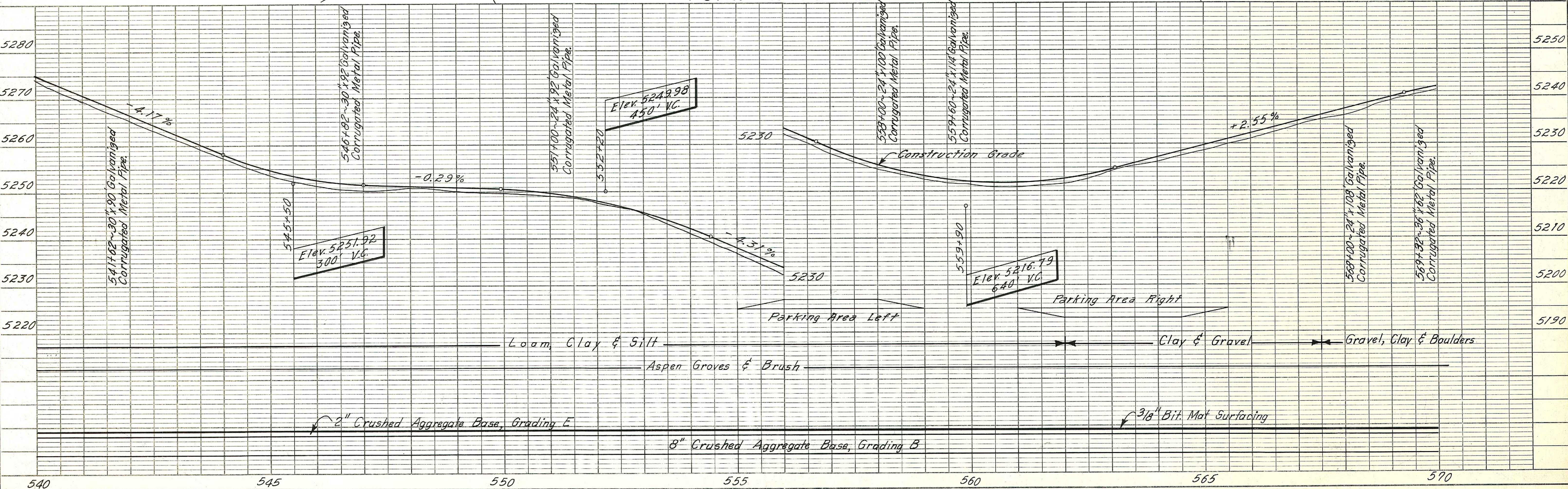
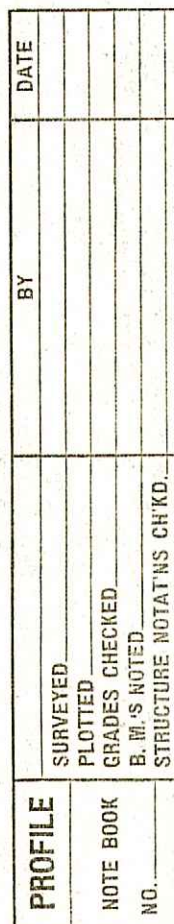
THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT



Allotment No. 2834
 W. 1/2 NW. 1/4 Sec. 29
 Finnette Aspling Connally

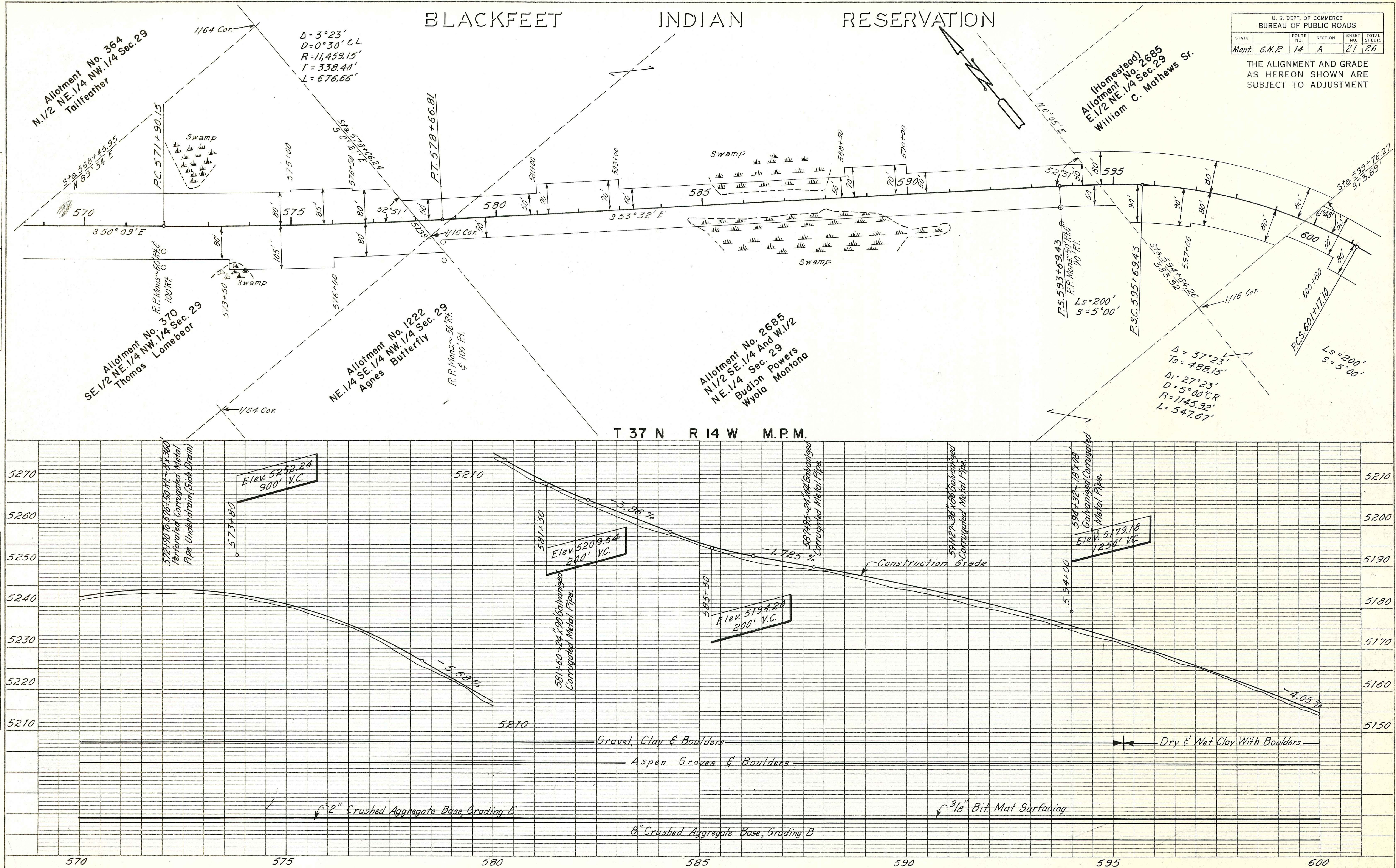
Allotment No. 370
S. 1/2 NE. 1/4 NW. 1/4 Sec. 29
Thomas Lamebear

T 37 N R 14 W M. P. M.



PLAN	DATE	BY	DATE
NO.	11	R.A. Farnas	1919
NO.	11	L.I. B. Post	7/1919
NO.	11	L.I. B. Post	7/1919

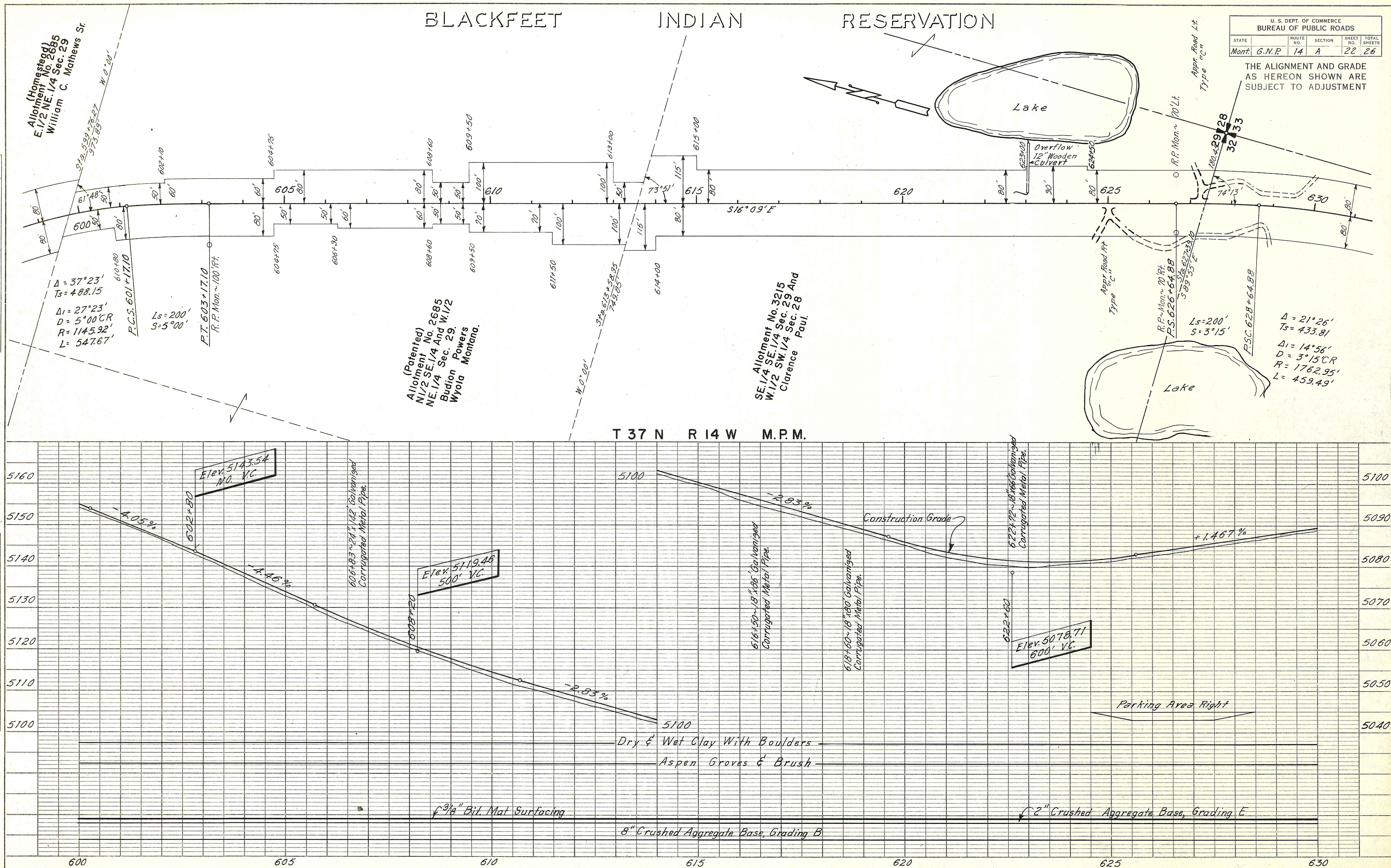
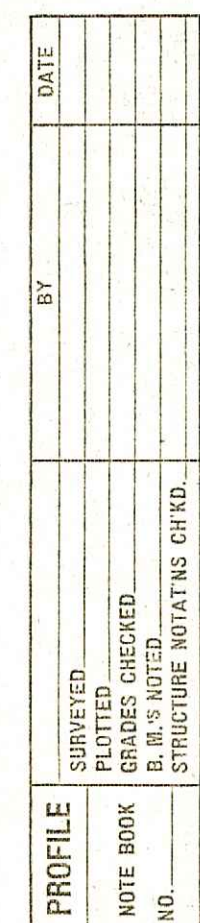
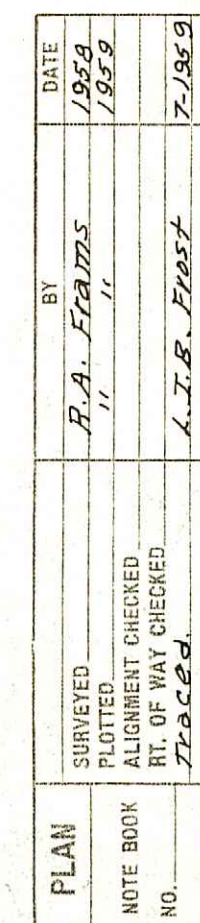
PROFILE	DATE	BY	DATE
NO.	11	R.A. Farnas	1919
NO.	11	L.I. B. Post	7/1919
NO.	11	L.I. B. Post	7/1919



RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS					
STATE		ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	14	A	22	26

THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
/ SUBJECT TO ADJUSTMENT

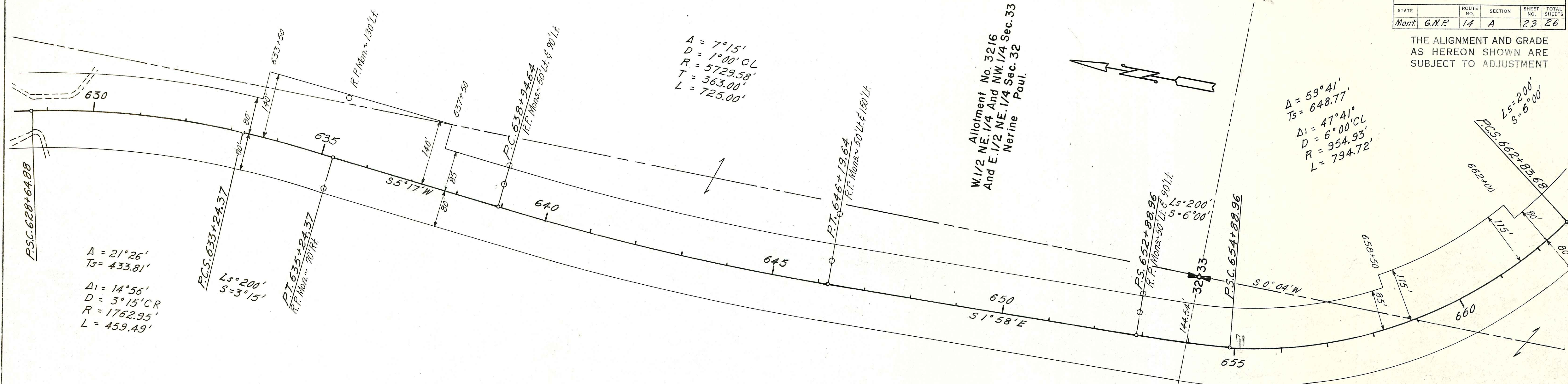


BLACKFEET INDIAN RESERVATION

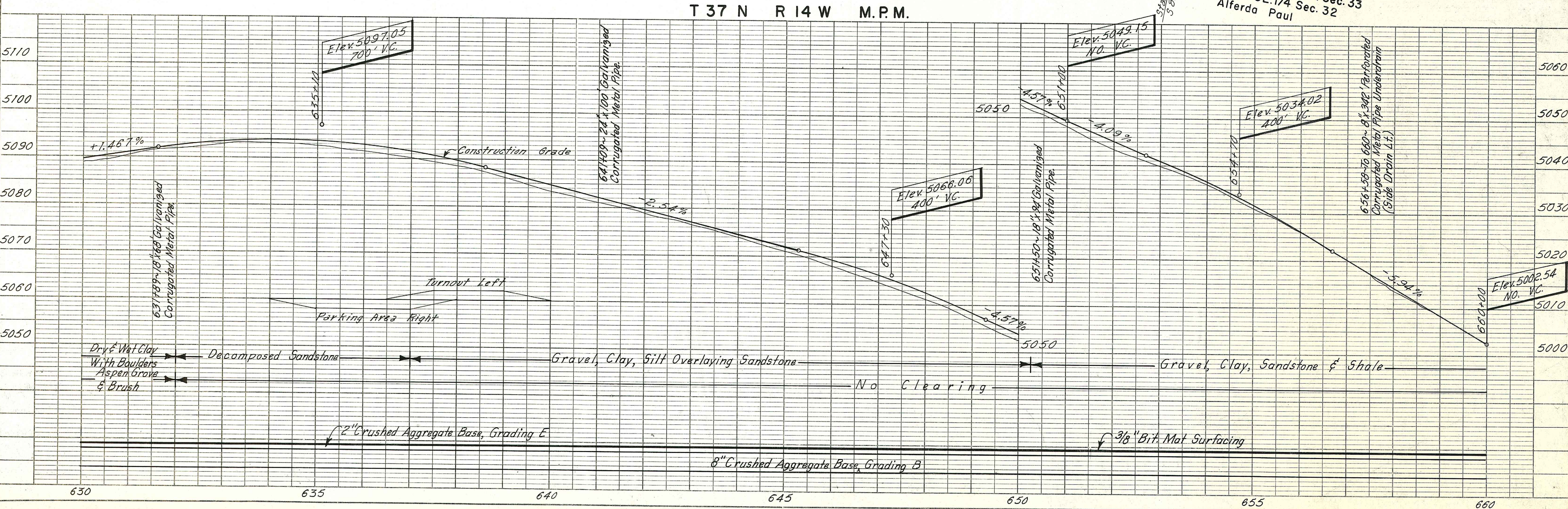
U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.N.P.	14	A	23 26

THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

PLAN	DATE	BY
SURVEYED PLOTTED ALIGNMENT CHECKED BY OF WAY CHECKED NO.	1928 12-28 12-28 12-28	R. A. Adams L. J. Frost



PROFILE	DATE	BY
SURVEYED PLOTTED B.M.'S NOTED STRUCTURE NOTATIONS CHD.		



BLACKFEET INDIAN RESERVATION

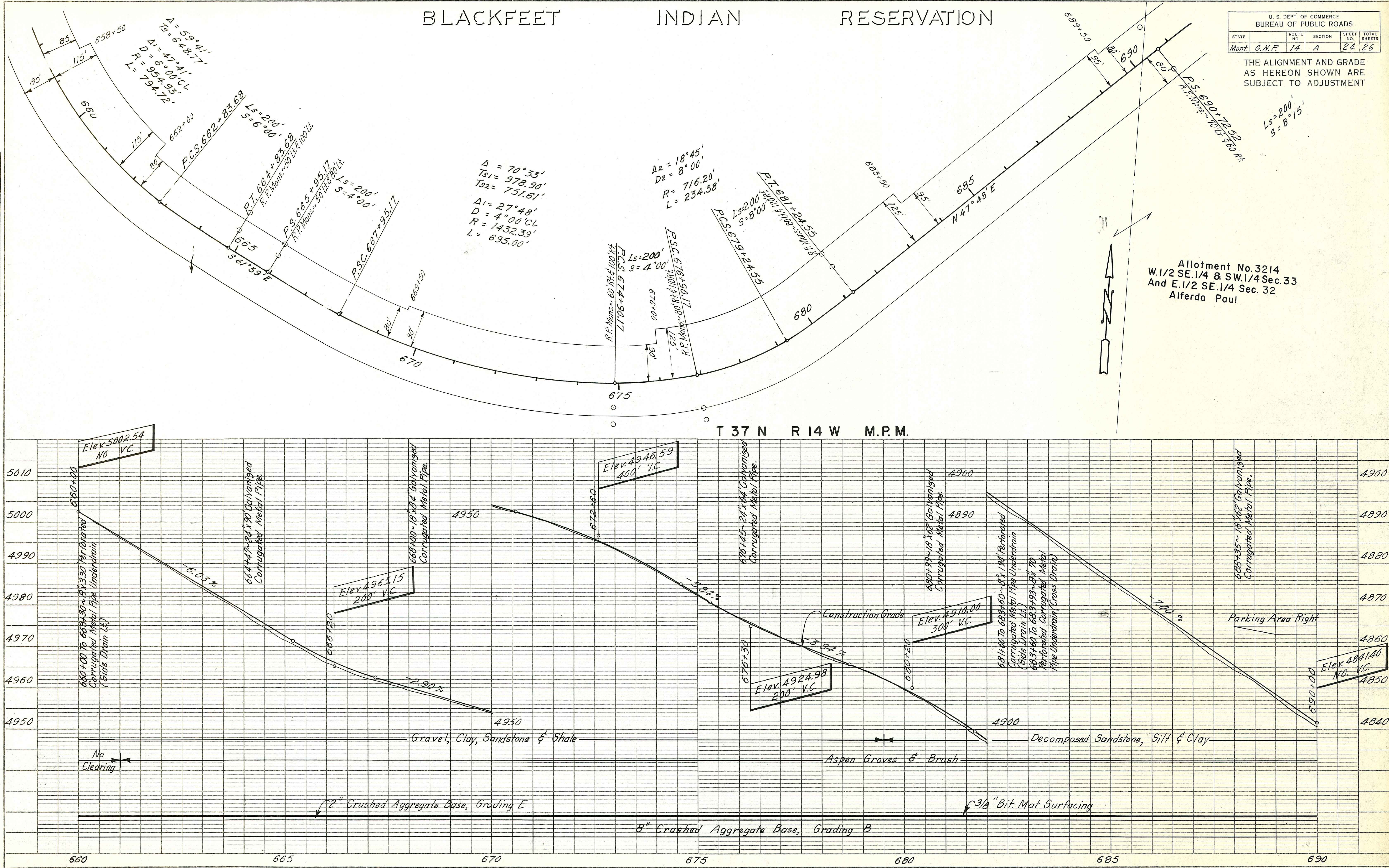
U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	G.M.P.	14	A	24 26

THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

Allotment No. 3214
W. 1/2 SE. 1/4 & SW. 1/4 Sec. 33
And E. 1/2 SE. 1/4 Sec. 32
Alferda Paul

DATE	BY	SURVEYED	NOTE BOOK	NO.
7/28/24	R.A. Flamm	ALIGNED CHECKED	7/28/24	
		BY OF WAY CHECKED		

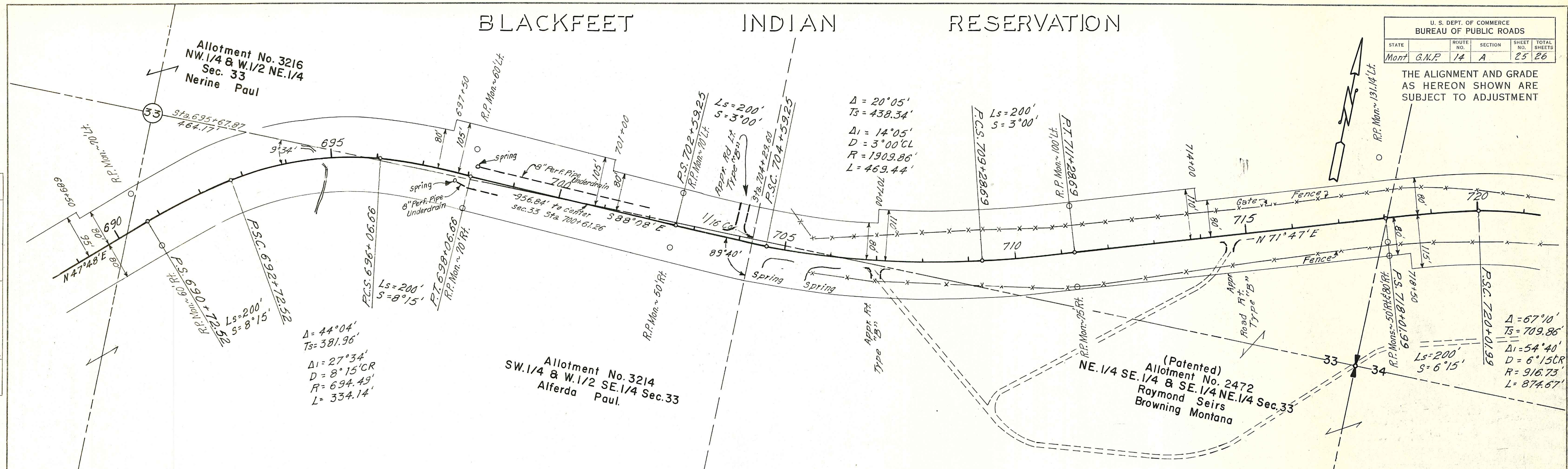
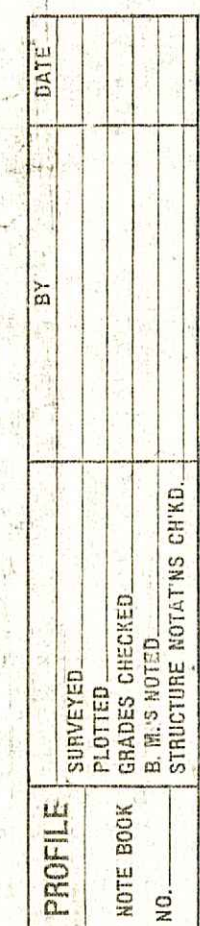
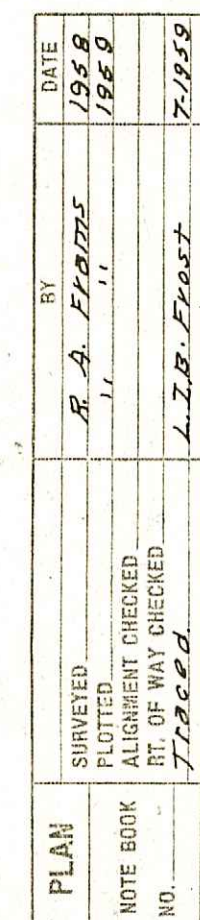
DATE	BY	SURVEYED	NOTE BOOK	NO.
		GRADES CHECKED		
		BY M.S. NOTED		
		SIGNATURE NOTATAS GIVE		



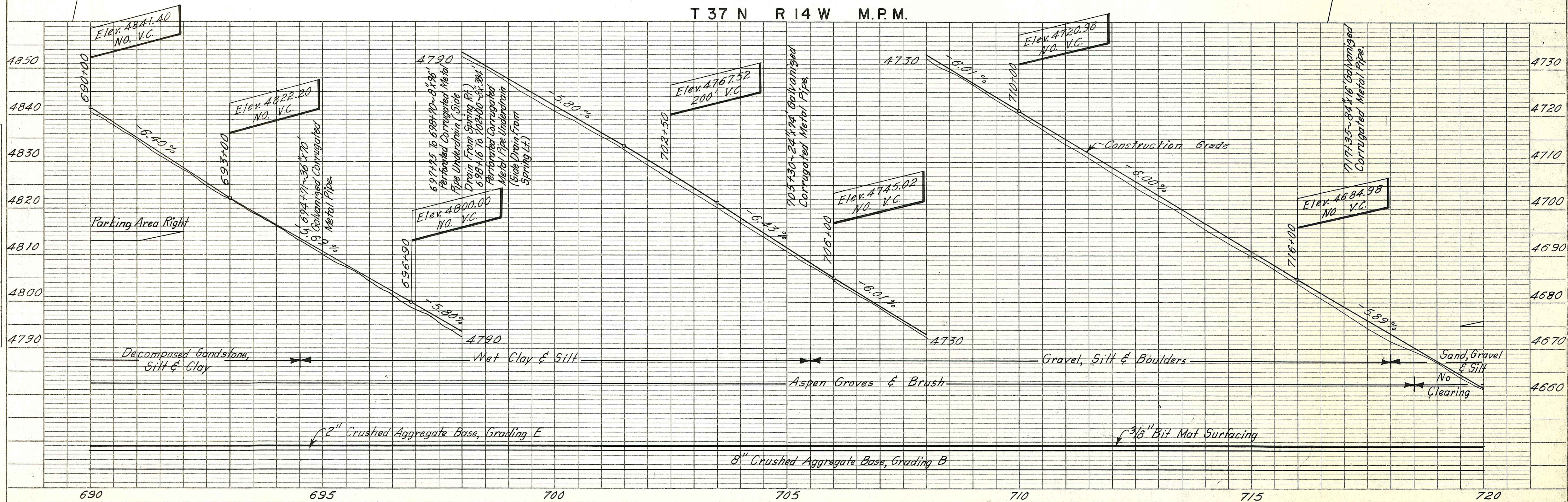
RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS					
STATE		ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont	G.N.P.	14	A	25	26

THE ALIGNMENT AND GRADE
AS HEREON SHOWN ARE
SUBJECT TO ADJUSTMENT



T 37 N R 14 W M.P.M.



BLACKFEET INDIAN RESERVATION

U. S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS				
STATE	ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
Mont.	6.M.P.	14 A	26	26

THE ALIGNMENT AND GRADE AS HEREON SHOWN ARE SUBJECT TO ADJUSTMENT

PLAN	DATE	BY
SURVEYED	1958	R.A. Franks
PLANNED	"	"
NOTED	"	"
NOTE BOOK	"	"
NO.	"	"

PROFILE	DATE	BY
SURVEYED	"	"
GRADES CHECKED	"	"
STRUCTURE NOTATIONS CHD.	"	"
NOTE BOOK	"	"
NO.	"	"

