

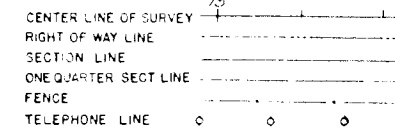
COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED COMB. FEDERAL AID PROJECT NO. 213 B EXT. R, 213 C & 294 AR STATE HIGHWAY NO. 10 MONTEZUMA COUNTY

FED ROAD DIST NO	STATE	COMB FED AID PROJ NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213 B EXT. R, 213 C & 294 AR	1	

Rev 9-21-36 hbm Lengths
Rev 11-19-36 hbm For Const Div No 2

CONVENTIONAL SIGNS



INDEX OF SHEETS

COMBINED FEDERAL AID PROJECT NO. 213 B EXT. R, 213 C CONST DIV NO 1, & 294 AR

SHEET NO. 1	SKETCH MAP AND TITLE	
2	TYPICAL SECTION & SUMMARY OF QUANTITIES	
3	LIST OF STRUCTURES	
4	CONCRETE BOX CULVERTS	M-103-D
5	" " "	M-104-D
6	REINFORCED CONCRETE CULVERT PIPE	M-112-A
7	STANDARD HEADWALLS FOR C.M.P. CULVERTS	M-102-E
8	" " SIP ON CORRUGATED GAL IRON	M-123-A
9	" " CATTLE GUARD	M-10-A
10	SPECIAL NO 13 CONCRETE INLET	M-12-B
11	STANDARD WIRE CABLE GUARD FENCE	M-20A
12	STANDARD WIRE FENCE WITH TREATED WOOD POSTS AND MARKER POSTS	M-24-F
13	STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES	M-1-A
14	TYPICAL SIDE APPROACH ROADS AND ROADWAY CONSTRUCTION TRAFFIC SIGNS	M-2-B
15 to 21	PLAN AND PROFILE	
22 to 48	CROSS SECTIONS	

SCALES ON ORIGINAL TRACINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE, 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

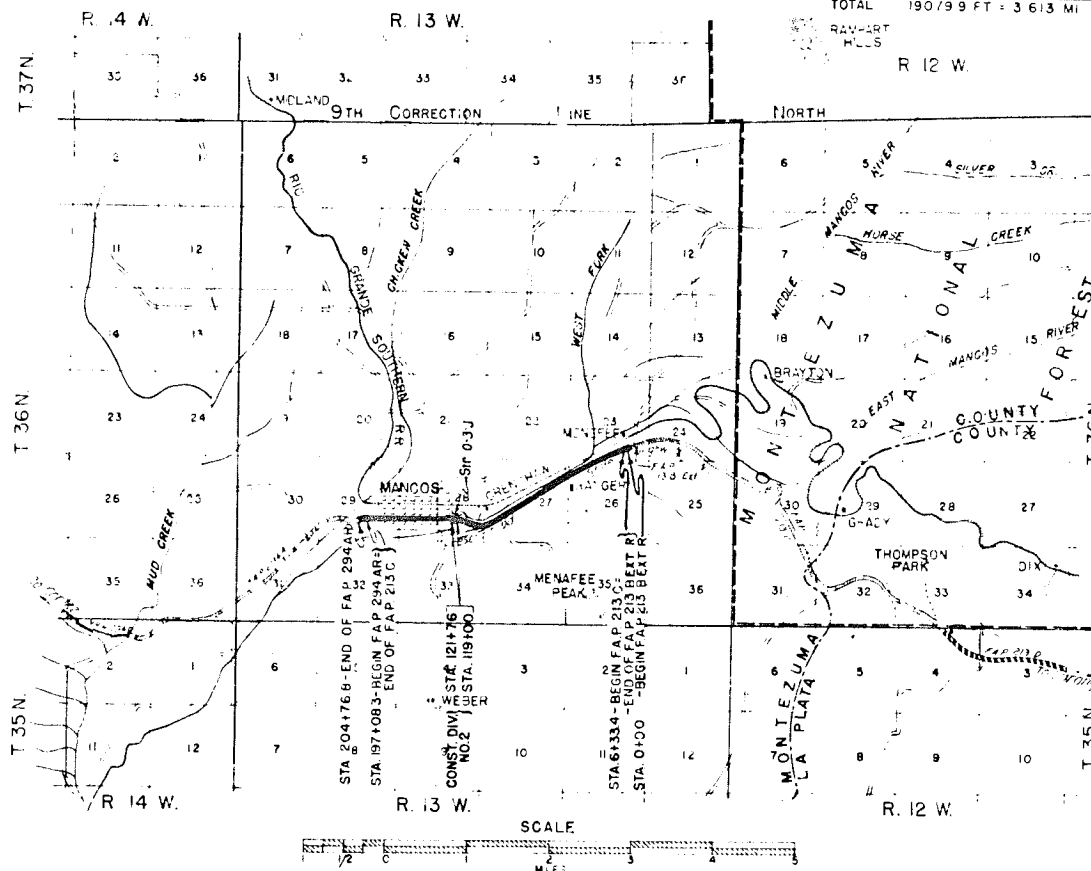
GROSS LENGTH OF PROJECT	(F.A.P. 213B EXT. R 7500 FT. = 3.612 MILES
NET LENGTH OF PROJECT	(F.A.P. 213C 19079.9 " = 3.613 "
	(F.A.P. 294AR 768 " = 0.14 "
	COMB. TOTAL 20594.4 FT. = 3.900 MILES

GROSS LENGTH OF PROJECT	F.A.P. 213 C
NET LENGTH OF PROJECT	CONSTRUCTION DIVISION NO 1 18803.9 FT. = 3.561 MI.
	CONSTRUCTION DIVISION NO 2 276.0 " = 0.052 "
	TOTAL 19079.9 FT. = 3.613 MI.

INDEX OF SHEETS

FEDERAL AID PROJECT NO 213C CONST DIV NO 2

SHEET NO. 1	SKETCH MAP AND TITLE	
2	TYPICAL SECTION & SUMMARY OF QUANTITIES	
3	LIST OF STRUCTURES	
4 TO 8	DETAILS OF BRIDGE STA. 1204	
9	STANDARD WIRE CABLE GUARD FENCE	M-20A
10	STANDARD WIRE FENCES (UNTREATED WOODEN POSTS) & MARKER POSTS	M-24-FX M-10-A
11	STANDARD STRUCTURE NUMBER LETTERING	
12	STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES	M-1-A
13	ROADWAY CONSTRUCTION TRAFFIC SIGNS	M-2-B
18	PLAN & PROFILE	
36 & 48	CROSS SECTIONS	



NOTE
It is recommended that bidders on this project go over the plan details with one of the following field representatives of the department
J.R. Cheney Division Engineer, Durango, Colorado
A.H. Kiesel Resident Engineer, Durango, Colorado

RECOMMENDED FOR APPROVAL 8/11/36
J. Mulvaney
ASSISTANT ENGINEER
APPROVED
Chas. Bail
STATE HIGHWAY ENGINEER
RECOMMENDED FOR APPROVAL
DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED
DIRECTOR BUREAU PUBLIC ROADS

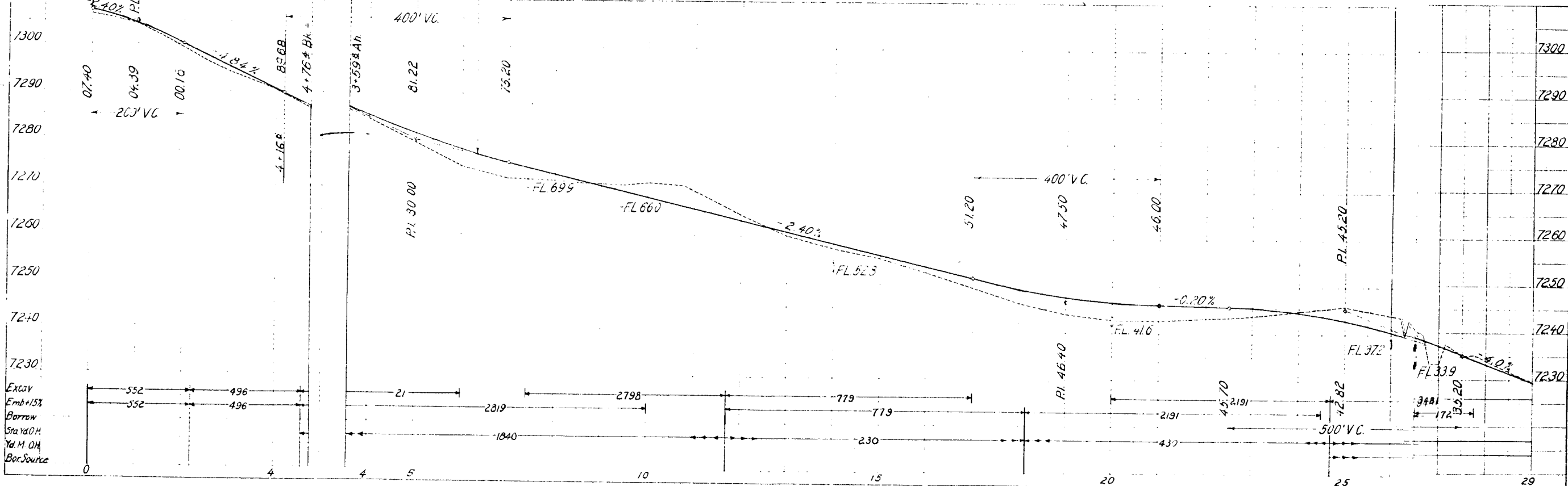
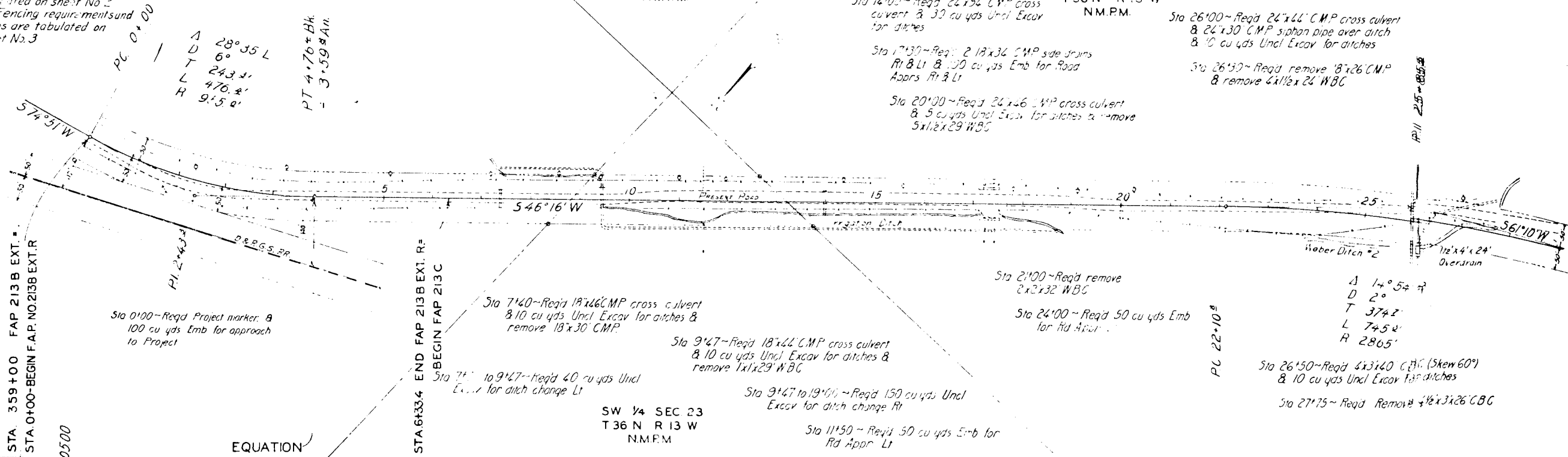
NOTE: All poles encroaching on construction are to be moved by owners.
Right of way markers are tabulated on sheet No. 2.
Fencing requirements and gates are tabulated on sheet No. 3.

SE 1/4 SEC 23
T 36 N R 13 W
N.M.P.M.

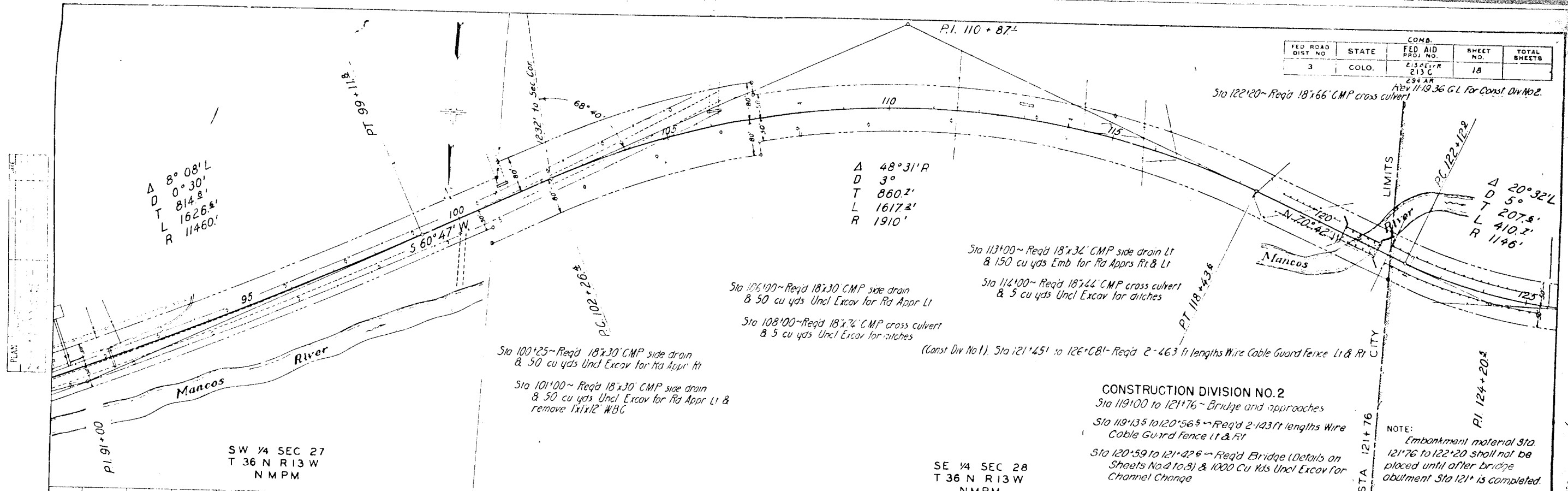
NE 1/4 SEC 26
T 36 N R 13 W
N.M.P.M.

NW 1/4 SEC 26
T 36 N R 13 W
N.M.P.M.

FEED ROAD DIST. NO.	STATE	SHEET NO.	TOTAL SHEETS
3	COLO.	15	

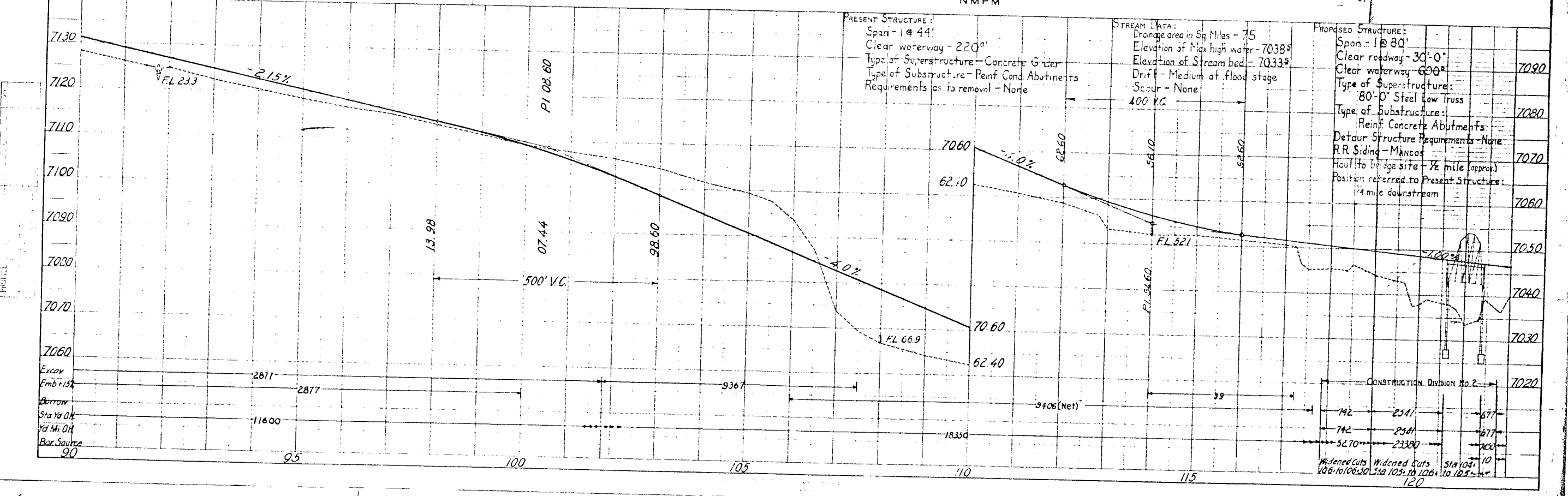


FED. ROAD DIST. NO.	STATE	COMB. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213 C	18	



CONSTRUCTION DIVISION NO. 2
 Sta 119+00 to 121+76 ~ Bridge and approaches
 Sta 119+35 to 120+56.5 ~ Req'd 2-143 ft lengths Wire Cable Guard fence Lt & Rt
 Sta 120+59 to 121+42.5 ~ Req'd Bridge (Details on Sheets No. 4 to 8) & 1000 Cu Yds Uncl Excav for Channel Change

NOTE:
 Embankment material Sta 121+76 to 122+20 shall not be placed until after bridge abutment Sta 121+ is completed.



FED. ROAD DIST. NO.	STATE	COMB. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213 C 213 C 294 A	19	

Sta 123+00 to 124+50 - Req'd 30 cu yds Uncl Excav for ditch charge Rt

Sta 126+22 - Req'd 18x68' CMP cross culvert & 5 cu yds Uncl Excav for ditches

Sta 127+ - Move frame building and shed off ROW (FORCE ACCOUNT)

Sta 135+00 - Req'd 5 cu yds Uncl Excav for Rd Appr Lt

Sta 145+00 - Req'd remove 130 sq ft sidewalk

Sta 150+57 - Req'd 18x16' siphon H-1 & remove 2x146' WBC

Sta 127+ - Req'd Move Bank building off ROW (FORCE ACCOUNT). Pile salvaged material off ROW at Lt Sta 125+

Sta 128+00 - Req'd 18x186' CMP cross culvert with special inlet & remove 240 sq ft sidewalk

Sta 135+70 - Req'd remove 180 sq ft sidewalk

Sta 145+10 - Req'd relay 18x64' CMP cross culvert & 1 special inlet & 10 cu yds Uncl Excav for ditches

Sta 148+30 - Req'd 10 cu yds Uncl Excav for Rd Apprs Rt & Lt

Δ 20° 32' L
D 5' T
L 207.6'
R 410.2'
R 1146'

MANCOS

SCHOOL DISTRICT NUMBER 6

LEMMONS ADDITION

RIVERSIDE

ADDITION

STA 121+76 CITY LIMITS

CITY

STA 121+76

SE 1/4 SEC 28
T 36 N R 13 W
NMPM

EQUATION

SW 1/4 SEC 28
T 36 N R 13 W
NMPM

Sta 128+30 - Req'd 10 cu yds Uncl Excav for Rd Apprs Rt & Lt

Sta 131+00 - Req'd Remove 150 sq ft sidewalk

Sta 139+60 - Req'd remove 180 sq ft sidewalk

Sta 149+00 - Req'd 10 cu yds Uncl Excav for Rd Apprs Rt & Lt

GEORGE BAUERS SECOND SUBDIVISION

Sta 128+60 - Req'd Remove 150 sq ft sidewalk

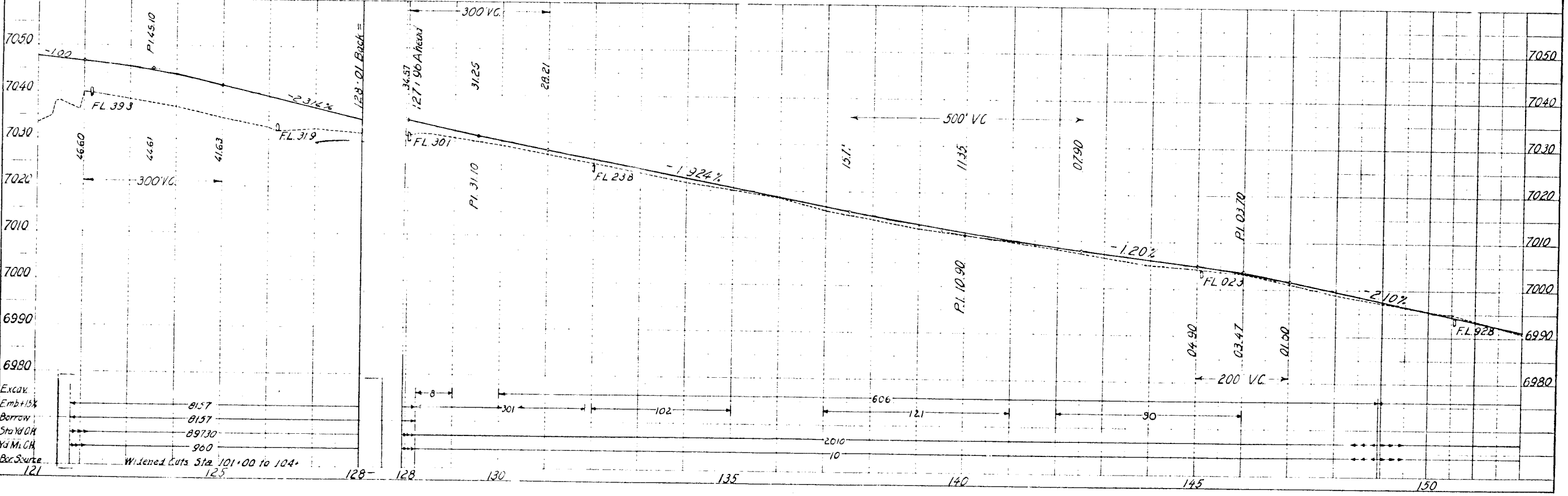
Sta 132+00 - Req'd relay 18x120' CMP cross culvert (Skew 50°) & 10 cu yds Uncl Excav for Rd Apprs Rt & Lt

Sta 132+80 - Req'd 5 cu yds Uncl Excav for Rd Appr Rt

Sta 149+30 - Req'd remove 180 sq ft sidewalk

Sta 132+00 - Req'd 15x36' CMP side drain with two special inlets Rt

Sta 141+50 - Req'd 5 cu yds Uncl Excav for Rd Appr Lt



1-1 1°

FED. ROAD DIST. NO.	STATE	COMB. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213 R 213 C 2544A	20	

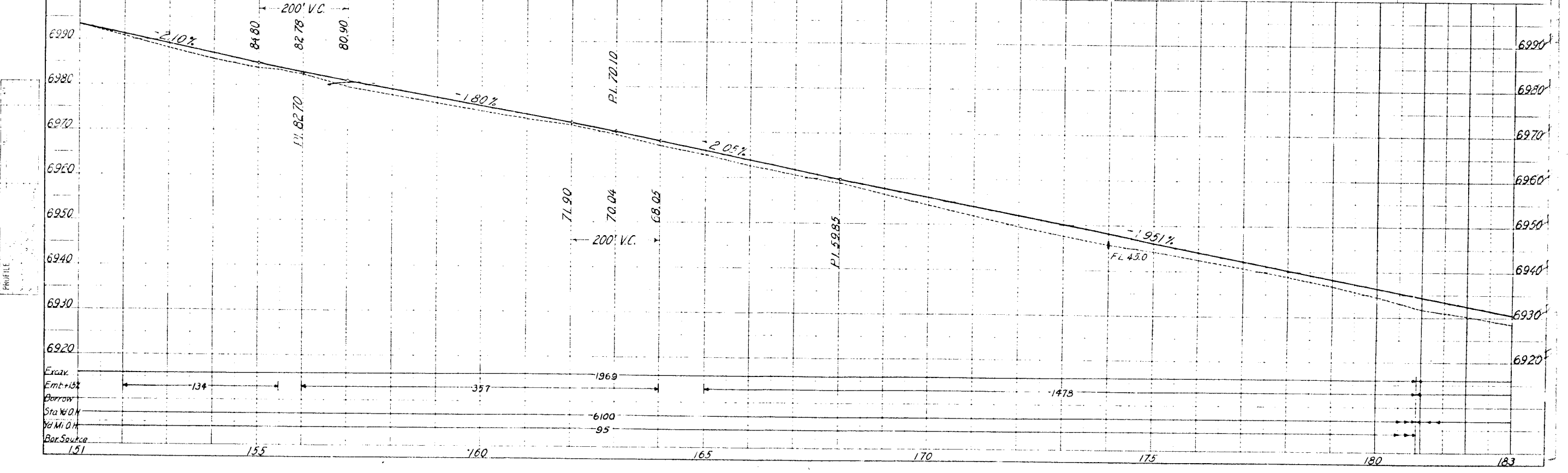
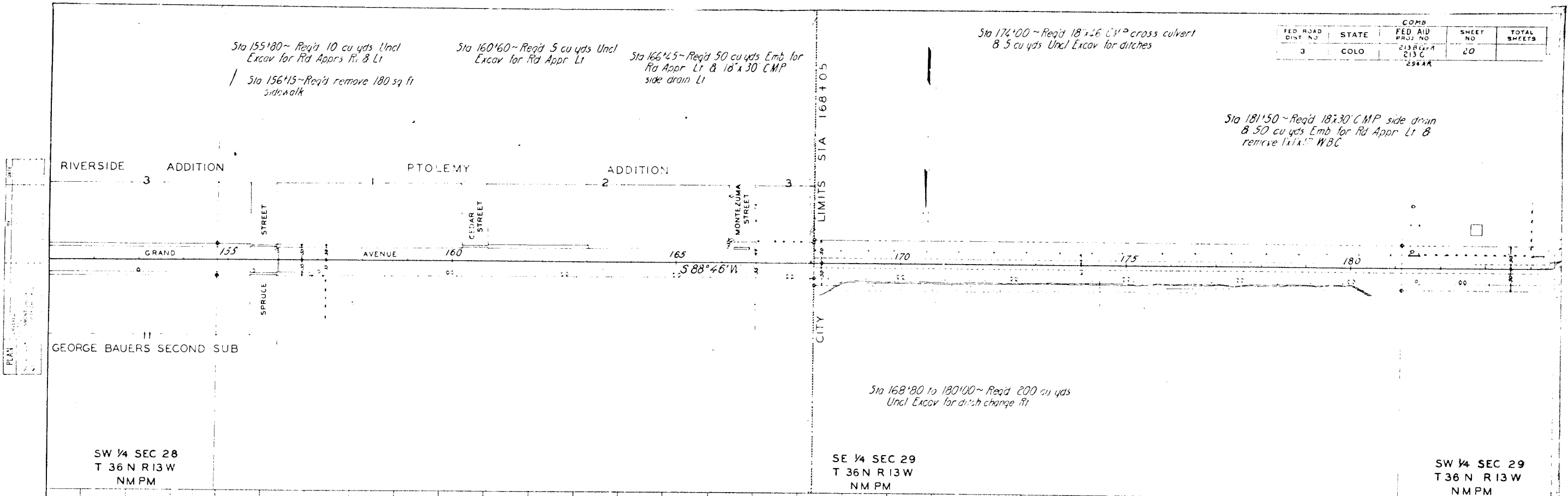
Sta 155+80 ~ Req'd 10 cu yds Uncl Excav for Rd Apprs Lt & Lt
 Sta 156+15 ~ Req'd remove 180 sq ft sidewalk

Sta 160+60 ~ Req'd 5 cu yds Uncl Excav for Rd Appr Lt

Sta 166+25 ~ Req'd 50 cu yds Emb for Rd Appr Lt & 18'x30' CMP side drain Lt

Sta 174+00 ~ Req'd 18'x26' CMP cross culvert & 5 cu yds Uncl Excav for ditches

Sta 181+50 ~ Req'd 18'x30' CMP side drain & 50 cu yds Emb for Rd Appr Lt & remove 1'x1' WBC



FED. ROAD DIST. NO.	STATE	COMP. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	2135C 254 AR	21	

Sta 184+10 ~ Req'd 18x30' CMP side drain & 50 cu yds Emb for Rd Appr Lt

Sta 184+75 ~ Req'd 18x30' CMP side drain & 50 cu yds Emb for Rd Appr Rt & remove 1x16' W.B.C.

Sta 193+00 to 196+25 ~ Req'd remove 11/2x11/2x325' Flume

Sta 198+17 ~ Req'd 10x10x38' C.B.C. & 20 cu yds Uncl Excav for ditches & remove 20x20 concrete bridge

Sta 197+83 to 198+45 ~ Req'd 2 lengths Wire Cable Guard Fence 56 lin ft each Lt & Rt

Sta 199+50 ~ Req'd remove 18x CMP

Sta 202+50 ~ Req'd 18x86' CMP cross culvert & remove 15x30' CMP

Δ
D
T
L
R
30° 38' L
6°
261.6'
510.8'
955.8'

Sta 137+07 to 203+ ~ Req'd 2700 cu yds Uncl Excav for channel change Lt & Rt

Sta 193+60 to 202+50 ~ Req'd 60 cu yds Uncl Excav for channel change Rt

Sta 204+78 ~ Req'd Project marker & 100 cu yds Emb for Appr in project

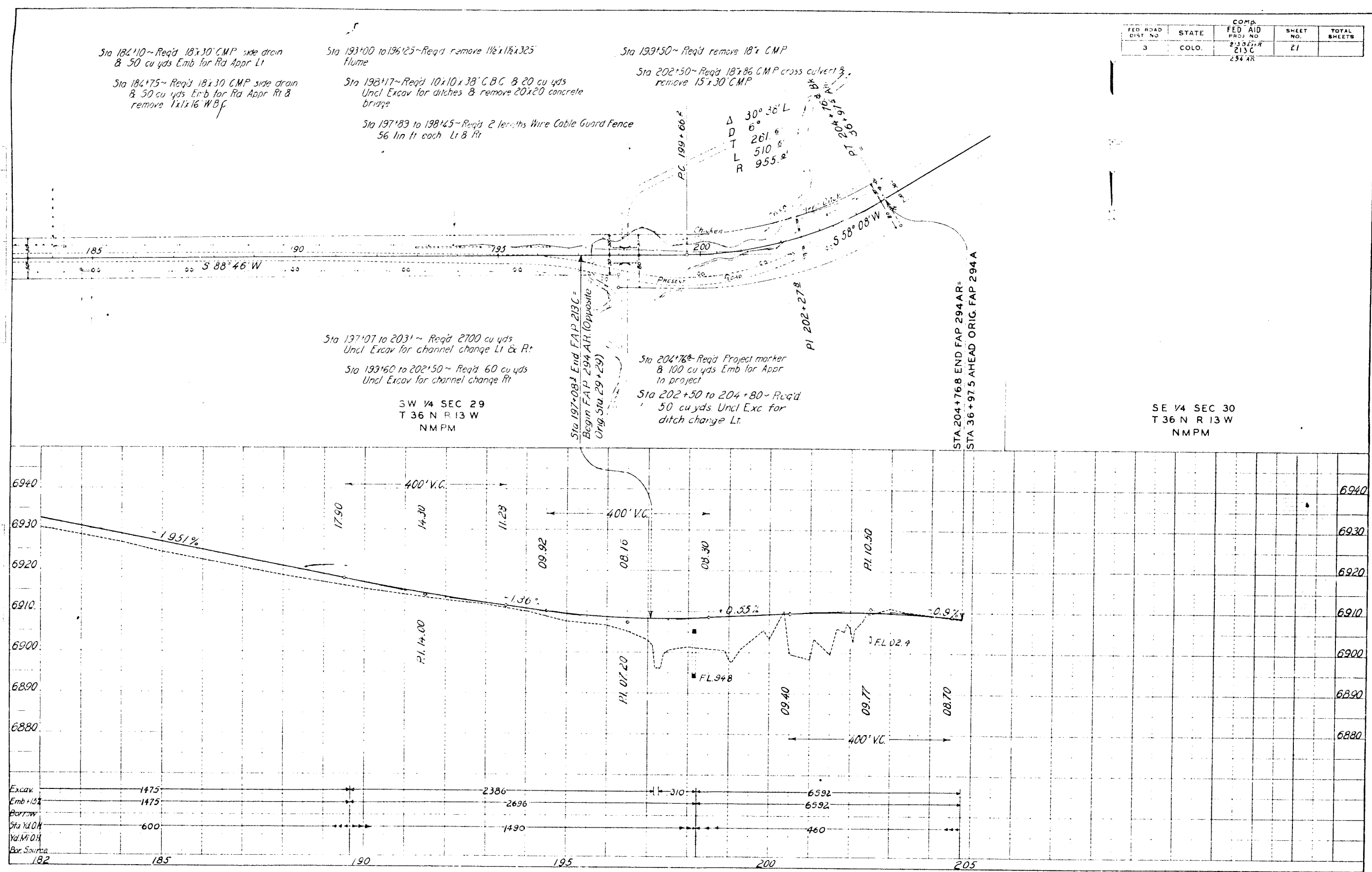
Sta 202+50 to 204+80 ~ Req'd 50 cu yds Uncl Exc for ditch change Lt

3W 1/4 SEC 29
T 36 N R 13 W
NMPM

SE 1/4 SEC 30
T 36 N R 13 W
NMPM

PLAN

PROFILE



FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F022-1(9)	6	

TS

34' ROADWAY				
REMOVE FENCE	REMOVE & REBUILD FENCE	BUILD B.W. FENCE	GATES B. WIRE	DRIVEWAY GATES
LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH
4900		1870		
2720		7900		
		3600		
1690				
280				
260				
		320		
250				
		320		
30				
220				
			1	
			1	
			1	
			1	
			1	
10,350		2,510	6	2
		11,500		

* TIMBER GUARD POSTS

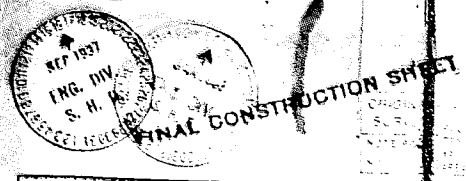
STATION	SIDE	SPACING	NO.
-6+40.8 to -5+45.8Bk.	Lt.	95'	2
-6+65.9Ah to 6+04	Lt.	3° Curve	24
-0+07	Rt.	Culvert	1
7+56 to 23+03	Lt.	1° Curve	19
18+00	Rt.	Culvert	1
29+90	Rt. & Lt.	Culvert	2
34+86 to 51+10	Lt.	2° Curve	17
58+60 to 60+60	Rt. & Lt.	100'	6
67+60 to 69+60	Lt.	100'	3
74+96 to 92+43	Lt.	1° Curve	17
86+00	Rt.	Culvert	1
94+00 to 105+00	Rt.	100'	12
93+60 to 101+60	Lt.	100'	9
101+60 to 103+60	Lt.	50'	5
107+70	Rt. & Lt.	Culvert	2
120+00	Rt. & Lt.	Culvert	2
120+65 to 124+65	Lt.	50'	9
127+75 to 131+75	Rt.	50'	9
128+50 to 132+50	Lt.	50'	9
137+62 to 145+51	Lt.	4° Curve	12
137+62 to 148+64	Rt.	4° Curve	18
149+00	Rt. & Lt.	Culvert	2
149+64 to 158+64	Rt.	50'	19
156+00	Rt. & Lt.	Culvert	2
164+85 to 166+90	Rt.	5° Curve	6
167+31 to 177+93.9Bk.	Rt.	5° Curve	27
731+95.1Ah. to 726+21	Rt.	5° Curve	14
728+00	Lt.	Culvert	1
721+50 to 705+00	Rt.	50'	24
715+00 to 711+50	Lt.	50'	8
708+50 to 706+50	Lt.	50'	5
TOTAL - 22' ROADWAY			88
TOTAL - 34' ROADWAY			202

R.O.W. MARKERS

STATION	22' ROADWAY		34' ROADWAY	
	SIDE	NO.	SIDE	NO.
-3+00	Rt.	1		
10+00	Lt.	1		
23+50			Rt.	1
36+50			Lt.	1
50+50			Rt.	1
61+00			Lt.	1
76+00			Rt.	1
88+50			Lt.	1
105+50			Rt.	1
121+50			Lt.	1
137+50			Rt.	1
142+00			Lt.	1
165+00			Rt.	1
172+50	Lt.	1		
726+50	Rt.	1		
712+00			Lt.	1
TOTAL - 22' ROADWAY		4		
TOTAL - 34' ROADWAY			12	

* Timber Guard Posts to be furnished by State & placed by Contractor.

5+ TO 17+) &
.. 13+50)



As-built

213B Ext.
213C
294AR

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	FAP213B-Const. Div. #1				FAP213C		RIGHT OF WAY MARKERS					
			27-B Roadway	27-B Roadway	Mancos 22 Roadway	TOTAL	27-B Roadway	COMBINED TOTAL	STATION	SIDE	No.			
10a	Clearing & Grubbing Entire Project	Lump Sum	X	-	-	-	(460)	-	-	-	-	-	-	-
11b	Removal of 22 Structure	" "	X	-18	-1	-19	-	-	-	-	213B Ext R	0+00	R&L	3
11c	Remove Concrete Side wall	Sq. Ft.	0	140	2675	2815	0	2995	2815	-	-	Total	-	3
12a	Removing Fence	Lin. Ft.	1500	20140	410	20550	780	22830	22830	-	-	8+30	R	1
13c	Unclassified Excavation	Cu. Yd.	2492	2492	2492	2492	2492	4984	4984	-	-	9+28	L	1
13d	Cut Slope Treatment	sq. Yd.	0	0	0	0	0	0	0	-	-	12+70	L	1
14a	Structural Excavation Dry rock	Cu. Yd.	0	0	0	0	0	0	0	-	-	13+75	R	1
14b	" " Dry Common	" "	32.8	32.8	171.6	204.4	0	204.4	204.4	-	-	41+48	R	1
14c	" " Wet rock	" "	0	2.6	0	2.6	0	2.6	2.6	-	-	42+00	L	1
14d	" " Wet Common	" "	0	76.1	0	76.1	0	76.1	76.1	-	-	67+38	L	1
18a	Station Yard Overhaul	Sta. Yd.	245	245	245	245	245	245	245	-	-	67+10	R	1
18b	Yard Mile	Yd. mi.	0	0	0	0	0	0	0	-	-	71+36	R	1
26a	Gravel or Crushed Rock Surfacing	Tons	846.8	846.8	4427.7	5274.5	789.9	20142.2	20142.2	-	-	71+36	L	1
46a	Class "A" Concrete	Cu. Yd.	0	741	3.5	744.5	122.2	206.8	206.8	-	-	100+60	R	1
46b	" " " " " " " "	" "	0	22.80	2.2	25.0	6.1	21.2	21.2	-	-	101+15	L	1
47	Reinforcing Steel	Lb.	0	6245	255	6500	1458	41958	41958	-	-	100+45	R	1
53a	15" Corrugated Metal Pipe	Lin. Ft.	0	36	0	36	0	36	36	-	-	101+40	L	1
53b	18" Corrugated Metal Pipe	Lin. Ft.	0	392	0	392	70	1330	1330	-	-	107+00	R&L	4
53c	24" " " " " " "	" "	0	352	0	352	0	352	352	-	-	122+00	R	1
53e	36" " " " " " "	" "	0	84	0	84	0	84	84	-	-	126+24	R&L	4
55b	18" Corrugated Metal Siphon Pipe	" "	0	100.8	79.8	180.6	0	180.6	180.6	-	-	166+15	L	2
59	Relaying Pipe	" "	0	186.0	0	186.0	0	186.0	186.0	-	-	168+05	L+R	4
74	Wire Cable Guard Fence	" "	0	0	894	894	112	1006	1006	-	-	Total	-	11
76a	Barbed Wire Fence, Treated Wood Posts	" "	1335	7697	0	7697	1540	10572	10572	-	-	181+14	L&R	2
76d	Combination Fence	" "	0	20455	898	20455	0	21353	21353	-	-	Total	-	20
76b	Barbed Wire Gates	Each	0	7	0	7	0	7	7	-	-	198+00	R	2
76c	Driveway Gates	" "	0	13	0	13	0	13	13	-	-	204+76	L+R	4
76e	Walk Gates	" "	0	4	0	4	0	4	4	-	-	Total	-	6
81a	Project Markers	" "	1	0	0	0	1	2	2	-	-	COMBINED TOTAL	-	40
81b	Right of Way Markers	" "	3	20	11	34	6	40	40	-	-	-	-	-
82	Cattle Guards - K'long	" "	0	1	0	1	0	1	1	-	-	-	-	-
85b	18" Trash Guards	" "	0	2	2	4	0	4	4	-	-	-	-	-
110B	No. 15 Special Inlets	" "	0	0	4	4	0	4	4	-	-	-	-	-
72a	6" Perforated Metal Pipe Underdrain Lin. Ft.	Lin. Ft.	0	1000	0	1000	0	1000	1000	-	-	-	-	-
72x	6" Perforated Pipe	" "	0	0	0	0	60	60	60	-	-	-	-	-

FORCE ACCOUNT ITEMS:
More Bank Building off R.O.W. Lump Sum
" Frame " " Shed " " "

FENCE

MATERIAL PLACED		Cu. Yds. PER STA.	QUANTITY REQUIRED	SOURCE OF MATERIAL	OVERHAUL	
STA. TO STA.	PER STA.				STAYD.	Yd. Mi.
11+11	100+00-119+00	62.2	1367.5	Material Station	7+19	1150.6
168+05-196+17	62.2	2664.9	Material Station	37+48	1634.2	
123+00-128+00	78.0	2664.9	Material Station	26+53.0	1133.0	
TOTALS			4048.2		4458.7	2384.8

Book No.	Pay Quantities Tons
1	406.925
2	153.373
3	865.675
4	860.525
5	788.000
6	609.325
7	737.900
8	799.975
9	773.840
10	793.862
11	820.750
12	830.175
13	830.325
14	814.887
15	852.450
16	847.275
17	631.800
18	849.225
19	848.125
20	865.050
21	876.700
22	851.900
23	852.150
24	867.325
25	887.000
26	878.950
27	554.600
28	137.125
TOTAL	20,902.29

STATION	SIDE	Remove Fence Lin. Ft.	Build Fence Lin. Ft.	GATES			
			R. Wire	Comb.	R. Wire	D. Way	
0+00-6+00	R	1500	745				
0+00-4+00	L		590				
6+00-30+80	R	1500	1335				
6+00-53+00	L	4540	2500				
30+80-120+00	R	1470	4797				
53+00-120+00	L	1360	18547	4	1		
121+76-126+25	R	790	6870	2	4	1	
121+76-126+25	L	410	420			2	
168+05-197+00	R	4270	478				
168+05-193+00	L		2868				
193+00-197+00	L	1610	2550	1	2	1	
197+00-204+76	R	20350	7697	7	13	4	
197+00-204+76	L	780	880				
TOTAL		780	1540				
COMBINED TOTAL		22830	10572	21353	7	13	4

ITEM	DESCRIPTION	UNIT	QUANTITY
213B Ext	846.8 Tons	Tons	846.8
213C	12,837.8	Tons	12,837.8
213C-20	6,427.7	Tons	6,427.7
294AR	789.9	Tons	789.9
TOTAL	20,902.2 Tons	Tons	20,902.2

SHEET TOTALS EXCEPT FOR FINISH

FAP 213 AR & 213 C

R.O.W. MARKERS

and Specifications
Approximate only.
to be obtained as shown
of Structures as
notation." These
locations indicated on
subject to change
in Construction.
Standard Super-
roads
of Way and the
the Entire Project"
one headwall on
with a 4" thickness
set from edge of
operation is
and until after
travelled road-
on present road.
See Also the
temporary approaches

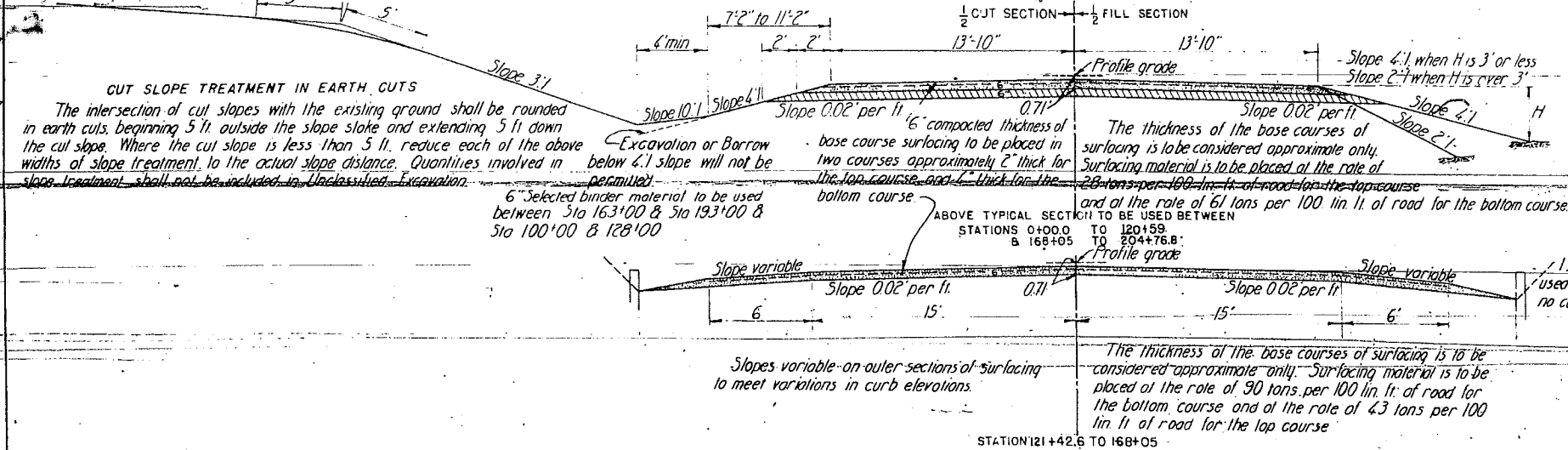
STATION	SIDE	NO.
FAP 213 C		
8+30	R	1
9+28	L	1
12+70	L	1
13+75	R	1
41+48	R	1
42+00	L	1
64+38	L	1
67+10	R	1
71+36	R	1
71+76	L	1
100+60	R	1
101+15	L	1
100+45	R	1
102+00	R	1
107+00	R & L	4
101+40	L	1
MANCOS		
122+00	R	1
126+24	L & R	4
154+75	L & R	2
166+15	L	2
168+05	L & R	4
TOTAL		13
FAP 213 C		
181+14	L & R	2
TOTAL		21
FAP 294 AR		
198+00	R	2
204+77	L & R	4
TOTAL		6
COMBINED TOTAL		
		40
F.A.P. 213 C	CONST.	DIV. N° 2
121+58	L	1

FED. ROAD DIST. NO.	STATE	COMB. FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	213 B EXT. R. 213C	2	

Rev 9-21-36 hbm
Rev 11-19-36 GL For Const Div No 2

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

TYPICAL SECTIONS



SELECTED BINDER MATERIAL

Selected binder material shall be placed and spread on the subgrade approximately 6 inches loose thickness at rates indicated in table below. This selected binder material shall be classified and paid for as "Unclassified Excavation." It is estimated that the material will be obtained in the vicinity of the pit indicated in tabulation below. The estimated quantities involved in the placing of this selected binder are also shown in tabulation below.

MATERIAL TO BE PLACED STA. TO STA.	CU YDS PER STA.	APPROXIMATE QUANTITY REQ'D CU YDS	SOURCE OF MATERIAL	ESTIMATED OVERHAUL	
				STA. YD.	YD. MI.
100+00-119+00	71	1390	PIT 250' SOUTH STA. 204+	15290	2160
121+76-128+00	90	570	PIT 250' SOUTH STA. 204+	6800	720
163+00-168+05	90	460	PIT 250' SOUTH STA. 204+	5010	230
Const. Div No 2					
119+00-120+59	71	120	Pit 250' South Sta. 204+	1320	170
121+26-121+76	90	40	Pit 250' South Sta. 204+	440	60
Const Div No 1 TOTALS				46080	3480
Const Div No 2 TOTALS				1760	230

GENERAL NOTES

This Project is to be constructed in accordance with the Standard Specifications of the Colorado State Highway Department, adopted August 1, 1935.

All quantities on preliminary plans are to be considered as approximate only.

All roadway excavation required to construct this project is to be obtained as shown on the Typical Section, either noted on Profile as Borrow or on List of Structures as Embankment, are to be classified and paid for as "Unclassified Excavation." These quantities are to be staked as part of the Original Excavation at locations indicated on the Plans. Slope stakes beyond the limits of the Typical Section are subject to change by the Engineer to fit Embankment requirements actually encountered on construction.

All curves are to be super-elevated as provided for by the Standard Super-elevation Sheet included with Plans.

All poles encroaching on construction are to be moved by owners.

The entire project is to be cleared for the full width of the Right-of-Way and the cost thereof included in the lump sum price for Clearing and Grubbing the Entire Project.

All corrugated metal pipe cross culverts are to be provided with one headwall on the inlet end unless otherwise noted on the plans.

All side approach roads to the project shall be gravel surfaced with a 4" thickness of Gravel or Crushed Rock Surfacing extending approximately 30 feet from edge of highway. Estimated tonnage of surfacing material required in this operation is shown in List of Structures.

Embankment material sta. 121+76 to 122+20 shall not be placed until after bridge abutment sta. 121+ is completed.

During construction of this project, traffic will use the present travelled roadway. At all places on project where new construction encroaches on present road, traffic must be adequately provided for at the contractor's expense. Also the contractor shall construct and maintain in safe condition all temporary approaches to and crossings of intersecting roads.

Overhaul will be paid for as measured along center line of project, except as otherwise noted on plans.

R.O.W. MARKERS

STATION	SIDE	NO.
FAP 213C		
8130	R	1
9128	L	1
12170	L	1
13175	R	1
41148	R	1
42100	L	1
64136	R	1
67110	R	1
71136	L	1
100+60	R	1
101+15	L	1
100+45	R	1
102+00	R	1
101+00	RB L	4
101+40	L	1
MANCOS		
122+00	R	1
126+24	LBR	4
154+75	LBR	2
166+15	L	2
168+05	LBR	4
TOTAL		13
FAP 213C		
181+14	LBR	2
TOTAL		21
FAP 294AR		
198+00	R	2
204+77	LBR	4
TOTAL		6
COMBINED TOTAL		40
FAP 213C CONST. DIV. NO. 2		
121158	L	1

SUMMARY OF APPROXIMATE QUANTITIES

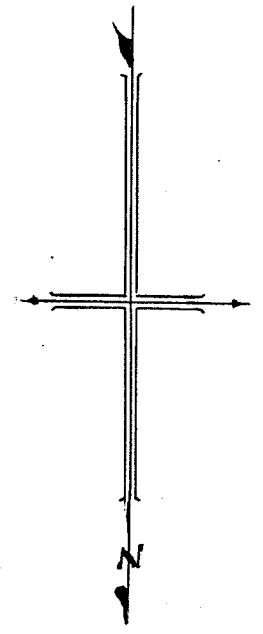
ITEM NO.	DESCRIPTION	UNIT	F.A.P. 213C CONST. DIV. NO. 1				F.A.P. 213C CONST. DIV. NO. 2		TOTAL
			27'-8" ROADWAY	27'-8" ROADWAY	MANCOS ROADWAY 42'-0"	TOTAL	27'-8" ROADWAY	42'-0" ROADWAY	
10 a	Clearing & Grubbing The Entire Project	Lump Sum							
11 b	Removal of 22 Structures	Lump Sum							
11 c	Remove concrete sidewalk	Sq. ft.		18	19	5		22	
12 a	Removing fence	Lin. ft.	1500	20200	500	20700	800	23000	
13 c	Unclassified excavation	CU Yd.	1200	43300	11100	54400	9900	63500	2700
13 d	Cut slope treatment	MI.	0.1		0.2	0.3		0.6	
14 a	Dry rock excavation (Structural)	CU Yd.		30		30		60	
14 b	Dry common excavation (Structural)	CU Yd.		210	50	260		310	10
14 c	Wet rock excavation (Structural)	CU Yd.		20		20		40	125
14 d	Wet common excavation (Structural)	CU Yd.		150	20	170		190	17250
18 a	Station yard overhaul	Sta. yd.	2000	99600	101400	201000	20000	205000	25000
18 b	Yard mile overhaul	Yd. mi.		2700	2000	4700		4700	8000
26 a	Gravel or crushed rock surfacing	Ton	700	13000	6400	19400	800	20900	150
46 a	Class "A" concrete	CU Yd.		22	4	26		30	50
46 b	Class "B" concrete	CU Yd.		72	3	75		78	7451
47	Reinforcing steel (Structural)	Lb.	6065	255	6320	11460	17780		48800
53 a	15" corrugated metal culvert pipe	Lin. ft.		36	36	72		72	122000
53 b	18" corrugated metal culvert pipe	Lin. ft.		916	350	1266	86	1352	
53 c	24" corrugated metal culvert pipe	Lin. ft.		340		340		340	
55 a	18" corrugated metal siphon pipe	Lin. ft.		101	80	181		181	
55 b	24" corrugated metal siphon pipe	Lin. ft.		30		30		30	
59	Relinquish pipe	Lin. ft.		184	184			368	
74	Wire cable guard fence	Lin. ft.			926	112	1038		286
76 a	Barbed wire fence with treated wood posts	Lin. ft.	1280	7720		7720	1500	10500	
76 b	Combination wire fence with treated wood posts	Lin. ft.		20690	810	21500	100	21600	150
76 c	Barbed wire gates	Each		4		4		4	
76 d	Driveway gates	Each		11		11		11	
76 e	Walk gates	Each		2		2		2	
81 a	Project markers	Each		1		1		1	
81 b	Right of way markers	Each		21	13	34	6	40	
82	Concrete curbs	Each		2	2	4		4	
85 b	18" Trash guards	Each		2		2		2	
110 b	No. 13 special timer	Each		2		2		2	
42 a	Untreated Bridge Timber	MT. bm.							0.5
45 c	Class "A" Concrete (Manacolis)	CU Yd.							2
10 b	Clearing & Grubbing The Entire Project	Lump Sum							
10 c	Clearing & Grubbing The Entire Project	Lump Sum							
FORCE ACCOUNT ITEMS:									
	Move bank building off R.O.W. Sta. 127+	Lump Sum							
	Move frame building & shed off R.O.W. Sta. 127+	Lump Sum							
80 b	Bronze name plates	Each							1
89 a	Drain Pipe (Concrete floor) (3"x3'-0")	Each							10
ALTERNATE BIDS TO BE RECEIVED FOR REINFORCED CONCRETE CULVERT PIPE									
As an alternate for items No. 53a, 53b, and 53c the following items providing for reinforced concrete culvert pipe shall be bid upon:									
51 a	15" reinforced concrete culvert pipe	Lin. ft.		916	350	1266	86	1352	
51 b	18" reinforced concrete culvert pipe	Lin. ft.		340		340		340	
51 c	24" reinforced concrete culvert pipe	Lin. ft.							

Manaos City Limits

SEC. 29 T.36N. R.13W. N.M.P.M.

Hugo Weston
SW¹/₄ SE¹/₄ Sec. 29

Nelia Gawthrop Estate.
S²/₄ SW¹/₄ Sec. 29



170+00

180+00

170+00

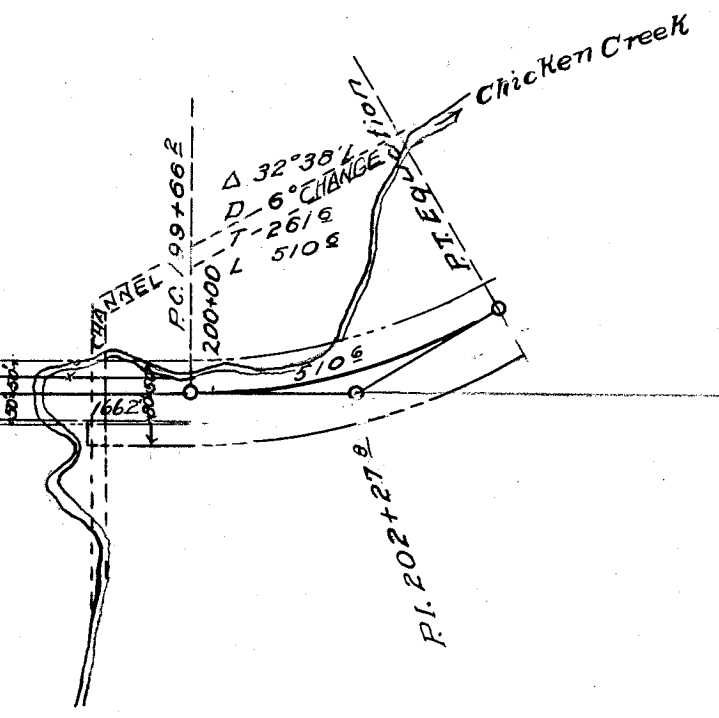
1350'

S 88° 46' W.

1632.0'

O.E. Noland
NW¹/₄ SE¹/₄ Sec. 29.

O.D. Noland
N²/₄ SW¹/₄ Sec. 29.

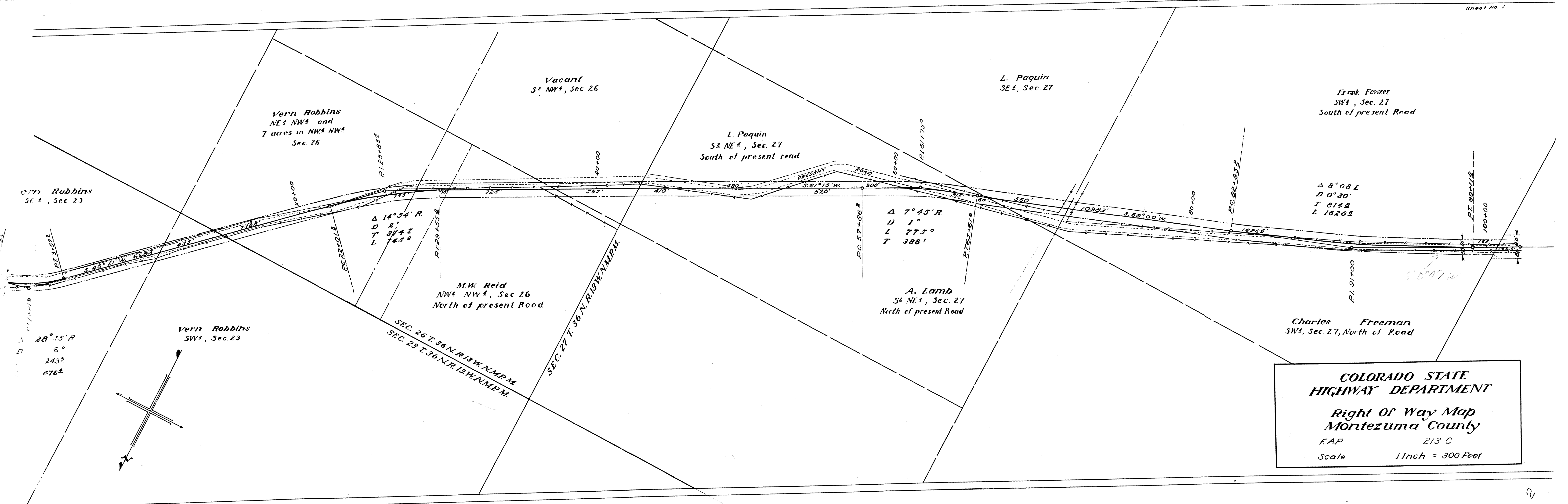


**COLORADO STATE
HIGHWAY DEPARTMENT**

*Right Of Way Map
Montezuma County*

F.A.P. 213 C

Scale 300 Feet = 1 Inch



Vern Robbins
SE 1/4, Sec. 23

Vern Robbins
NE 1/4 NW 1/4 and
7 acres in NW 1/4 NW 1/4
Sec. 26

Vacant
S 1/2 NW 1/4, Sec. 26

L. Paquin
S 1/2 NE 1/4, Sec. 27
South of present road

L. Paquin
SE 1/4, Sec. 27

Frank Fowler
SW 1/4, Sec. 27
South of present Road

Δ 14° 54' R
D 2'
T 374.2
L 145.9

Δ 7° 45' R
D 1'
L 775'
T 388'

Δ 8° 08' L
D 0° 30'
T 814.8
L 1626.8

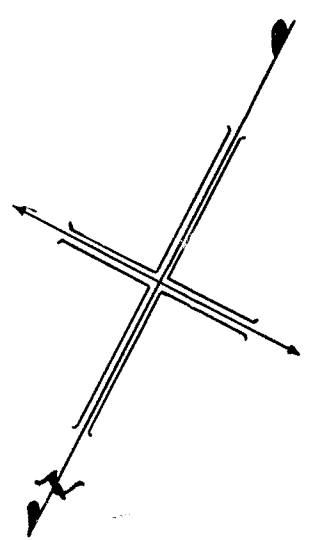
M.W. Reid
NW 1/4 NW 1/4, Sec. 26
North of present Road

A. Lamb
S 1/2 NE 1/4, Sec. 27
North of present Road

Charles Freeman
SW 1/4, Sec. 27, North of Road

Vern Robbins
SW 1/4, Sec. 23

28° 15' R
5'
243'
476'



SEC. 26 T. 36 N. R. 13 W. N.M.P.M.
SEC. 23 T. 36 N. R. 13 W. N.M.P.M.

SEC. 27 T. 36 N. R. 13 W. N.M.P.M.

**COLORADO STATE
HIGHWAY DEPARTMENT**

*Right Of Way Map
Montezuma County*

F.A.P. 213 C

Scale 1 Inch = 300 Feet

Sec. 28 T. 36 N. R. 13 W. N.M.P.M.

Sec. 29 T. 36 N. R. 13 W. N.M.P.M.

W.A. Bay
SE 1/4 SE 1/4, Sec. 28
South of Road

SW 1/4 SE 1/4, Sec. 28

Gus Foch

John Roessler
SE 1/4 SE 1/4, Sec. 28
North of Road

J.F. Williams
SE 1/4 SE 1/4, Sec. 28
North of Road

Δ 48° 31' R
D 3'
T 860 ±
L 1617 ±

Mancos
City Park

School
District No. 6

GRAND

AVENUE

O.E. Noland
NE 1/4 SE 1/4, Sec. 29

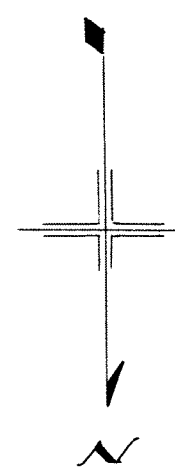
COLORADO STATE
HIGHWAY DEPARTMENT

Right of Way Map
through

Mancos Colorado

F.A.P. 213 C

Scale 1 Inch = 200 Feet



Mancos City Limit

Mancos City Limit

Equation in Bearings
S. 88° 31' W. Back
S. 88° 46' W. Ahead

R.O.T. Equation
120+61± Back
120+55± Ahead

P.I. 124+20.8

P.I. 118+49.6

P.I. 120+00

P.I. 120+23.5

140+00

160+00

1/10 S

NS 1/4 SE 1/4

NS 1/4 SE 1/4

