COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500001879

Description:
ROW Plans 11X17

Route # and Mile Points:
SH 666

Originating Office:

ROW/Survey

File Name:
F.A.P. 147-D_ROW(.PDF)

Box Location:

29 of 38

For assistance, or to request changes to this form,
please email helpdesk@msimaging.com.

MOUNTAIN STATES IMAGING

FED. ROADS DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	147-D	1	

Rev. 1-17-30 Sheet #4 added. C.R.B.

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. 147-D
STATE HIGHWAY NO. 106
MONTEZUMA COUNTY

INDEX OF SHEETS

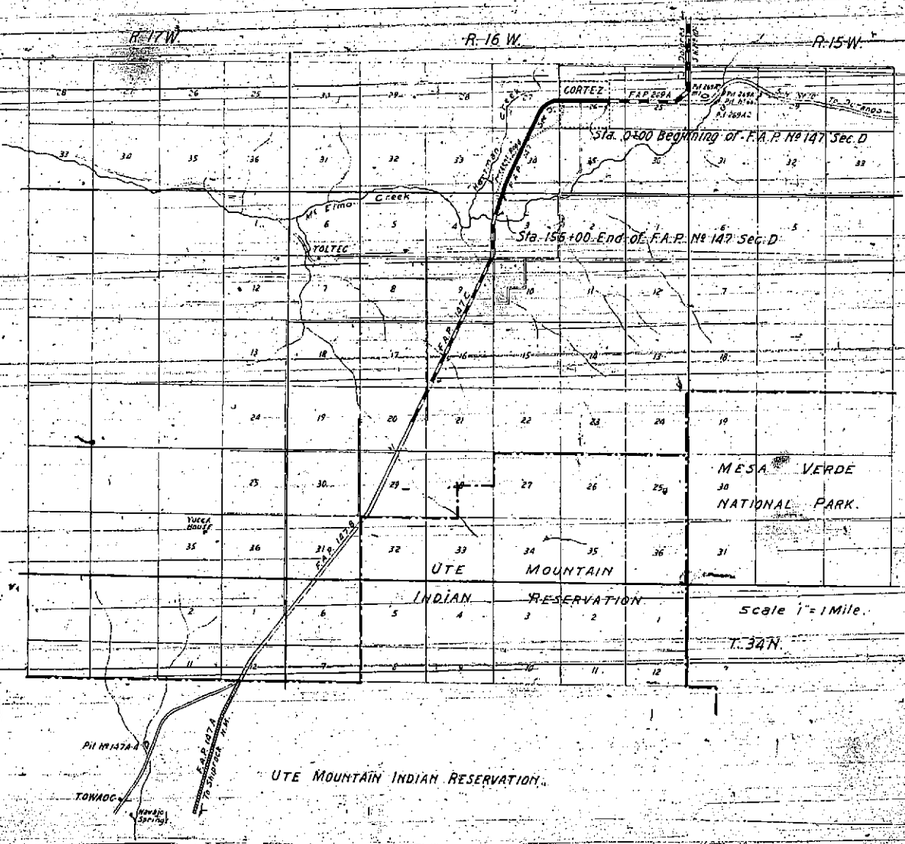
CONVENTIONAL SIGNS

Center Line of Improvement
Fence
Telephone Lines
Right of Way Line
¼ Section Line
Section Line

SCALES

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 15,327.4 FT. = 2.903 MILES.
NET LENGTH OF PROJECT 15,327.4 FT. = 2.903 MILES.



RECOMMENDED FOR APPROVAL
[redacted]
DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL
[redacted]
CHIEF ENG. BUREAU PUBLIC ROADS

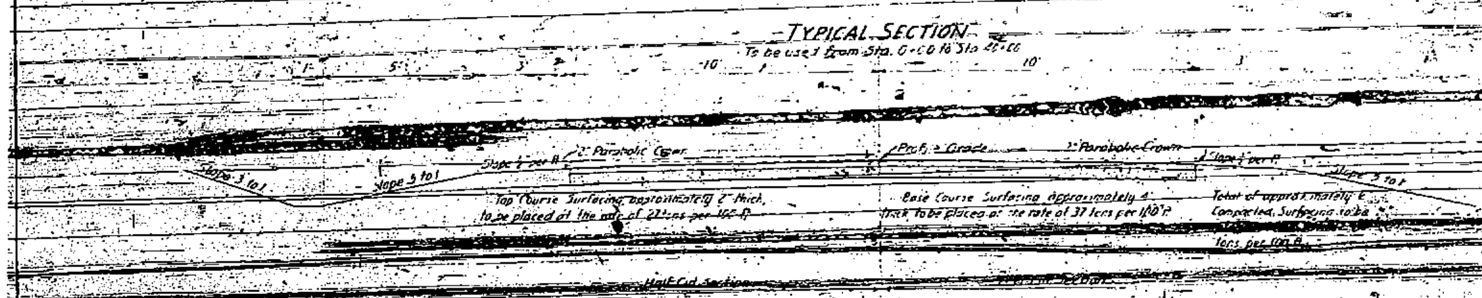
APPROVED
[redacted]
DIRECTOR BUREAU PUBLIC ROADS

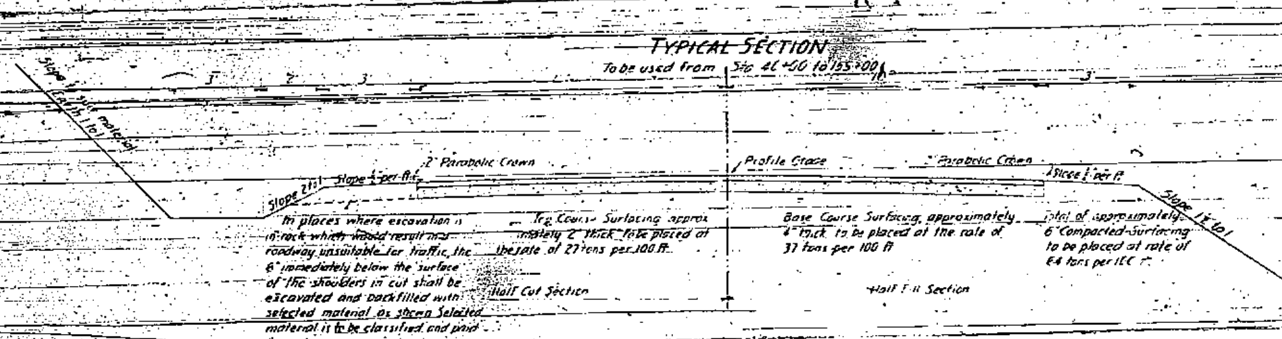
RECOMMENDED FOR APPROVAL
12/20/29
ASSISTANT ENGINEER

APPROVED 12/28/29
F. A. Blauvelt
STATE HIGHWAY ENGINEER

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO	147-D		





STRUCTURE LIST

Station	Description	Removal	Unclassified Excavation	Excavation for Structures Cu. Yds.*	Cu. Yds.	Unclassified Borrow	Cement Rubble Masonry	Corrugated Metal Culvert Pipe Lin. Ft. 15"	18"	24"	36"
5+00	C.M.P. Culvert 2 Hdwls. Exc. for Ditch		17	15			2.8		80		
7+10	Two C.M.P. Side Drains			1				92			
11+08	C.M.P. Culvert 2 Hdwls.		13	24			2.6	[illegible]			
14+30	C.M. Culvert 2 Hdwls. Exc. for Ditch		16	17			2.5		50		
14+50	C.M.P. Culvert 2 Hdwls. Exc. for Ditch		16	21			2.8		90		
16+15	2		15	13			2.8		80		
19+66	2		14	19			[illegible]		80		
[illegible]	[illegible]		[illegible]	[illegible]			[illegible]		[illegible]		
[illegible]	[illegible]		20	28			2.8		80		
25+95	2		10	25			2.8		80		
26+50	[illegible]		[illegible]	[illegible]			2.8		80		
29+65	2		20	26			2.8		80		
31+20	2		20	13			2.8		80		
33+50	Two C.M.P. Side Drains			4				100			
39+3.	Remove Two Buildings	1									
43+00	C.M.P. Culv. 1 Hdwl. Exc. Rem'v. Corral	1	1	3			1.4		34		
58+50	1 for Ditch		6	11			3.7				36
58+60 to 72+00	Intercepting Ditch		250								
62+00 to 72+00			200								
72+00	C.M.P. Culvert 1 Hdwl. Exc. for Ditch		20	13			1.7			32	
75+00	1		5	4			1.4		38		
85+85	Remove 15"×0.5'×18' Stone Culvert	1									
86+50	C.M.P. Culvert 1 Hdwl.			5			1.4		34		
90+60	C.M.P. Side Drain Approach			7		50		28			
98+75	C.M.P. Culvert 1 Hdwl.			6			1.4		46		
104+00	1			6			1.3		36		
114+00 to 133+00	Ditch Change		100								
126+40	C.M.P. Culvert 1 Hdwl.			5			2.1			44	
137+00	Side Drain Approach			1		100		30			
137+70 to 145+00	Ditch Change		30								
143+00	C.M.P. Culvert 1 Hdwl.			3			1.4		40		
150+35	1			14			1.4		38		
			817	332		150	51.3	330	1146	76	36

* Structural Excavation is estimated to be 10% Rock and 90% Common each of which is estimated to be 90% dry and 10% wet

GENERAL NOTES.

Specifications. This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department as adopted Sept. 3, 1929.

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

Borrow. All roadway excavation outside of ditch and cut slopes, as shown on typical section, except that specially noted, is to be classified and paid for as borrow. Unless otherwise stated all borrow is available on the right of way or immediately adjacent thereto within 300 ft. of where needed.

Waste. All excavation quantities in embankment outside of the lines of typical section shall be considered as waste and no payment for these quantities shall be made unless specifically provided for by written order from the Department to the Contractor.

Gravel Surfacing. The Department estimates that surfacing material will be obtained from the vicinity of Pit No 147 A-4 shown on the Title Sheet. This plan involves approximately 105 000 ton miles of overhaul on Gravel Surfacing. It is estimated that approximately 12 000 tons of material can be obtained from this locality. If the contractor, for his own convenience, elects to use a plan other than the above, overhaul in excess of that under the Department's plan will not be allowed.

Replacement Gravel. Stock piles of Gravel Surfacing Material, each to contain approximately 100 tons are to be placed approximately one half mile apart, as directed by the engineer. This material is for use in maintenance operations after the completion of the project.

Superelevation. Curves shall be superelevated to a maximum amount as determined by the following formula: Superelevation in feet = (0.0105 × D × W) in which D = degree of curvature and W = width of roadway in ft. A superelevation of 0.0833 per ft. width of roadway shall not be exceeded. The section is to be standard except that a flat crown is to be used. The change from standard section to superelevated section is to take place over a distance of 100 ft., half on curve and half on approaching tangent.

Clearing and Grubbing. The entire project is to be cleared for the full width of the right of way and the cost thereof is to be included in the lump sum price for clearing and grubbing the entire project.

Headwalls. All pipe cross culverts are to be provided with one headwall on the inlet end unless otherwise noted. Headwalls to be constructed of cement rubble masonry.

Gates in R.O.W. fences are to be provided opposite all side drains and at other places indicated on plans.

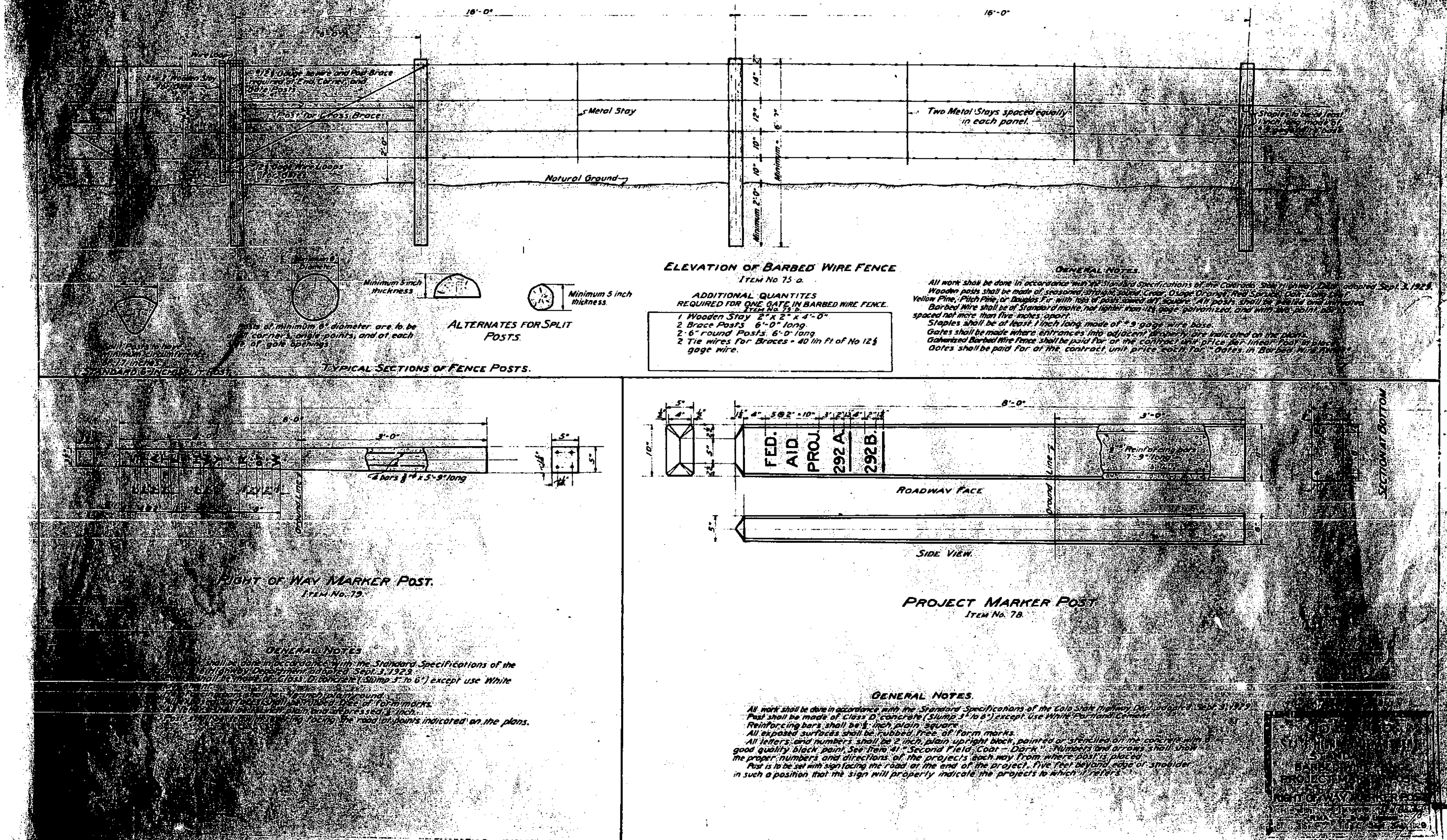
FENCING REQUIREMENTS

Sta	Location	Remove	Build
39+30 to 40+90	Rt and Across Road	230 Ft	
50+00	Across Road	130	
74+00	Across Road	90	
85+00 to 98+50	Rt	1350	
99+50 to 105+00	Across Road	530	
106+75	"	80	
153+50 to 155+00	Left	150	
38+00 to 155+00	Both Sides		23060
Totals		2 560	23 060

LIST OF APPROXIMATE QUANTITIES

No.	Item	Unit	Quantity
10a	Clearing and Grubbing Entire Project	Lump Sum	
11a	Removing Two Buildings, Sta. 39+	"	
11b	" Corral, Sta. 43	"	
11c	" Culvert, Sta. 85+	"	
12a	" Fence	Lin. Ft.	2 600
13c	Unclassified Excavation	Cu. Yd.	1300
14a	Dry Rock Excavation (Structures)	"	40
14b	" Common	"	280
14c	Wet Rock	"	10
14d	" Common	"	40
17c	Unclassified Borrow	"	19 200
18a	Overhaul on Excavation and Borrow	Sta. Yd.	1000
30a	Gravel or Crushed Rock Surfacing	Ton	9 810
30b	Overhaul on Gravel or Crushed Rock Surf'g	Ton Mile	103 000
49	Cement Rubble Masonry	Cu. Yd.	52
53a	15" Corrugated Metal Culvert Pipe	Lin. Ft.	330
53b	18" "	"	1146
53c	24" "	"	76
53e	36" "	"	36
75a	Galvanized Barbed Wire Fence	"	23 100
75b	Gates in "	Ea.	10
78	Project Marker	"	2
79	Right of Way Markers	"	12
32	Replacement Gravel (Not for Fed. Aid)	Ton	700
30b	Overhaul	Ton Mile	8000

M-24-D.



GENERAL NOTES.

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Dept. adopted Sept. 3, 1929.

Wooden posts shall be made of seasoned, straight, sound, Cedar, Osage Orange, Red Spruce, Oak, Long Leaf Yellow Pine, Pitch Pine, or Douglas Fir with tops of posts sawed off square. All posts shall be [illegible]

Barbed Wire shall be of Standard make, not lighter than [illegible] gage galvanized, and with [illegible] point [illegible] spaced not more than five inches apart.

Staples shall be at least 1 inch long made of #9 gage wire base.

Gates shall be made where entrances into adjacent property are indicated on the plans.

Galvanized Barbed Wire Fence shall be paid for at the contract unit price per linear foot in place.

Gates shall be paid for at the contract unit price each for "Gates in Barbed Wire Fence."

GENERAL NOTES.

[illegible] Standard Specifications of the [illegible] Sept. 3, 1929. [illegible] Class D concrete (Slump 3" to 6") except use White [illegible] form marks. [illegible] Post [illegible] facing the road at points indicated on the plans.

GENERAL NOTES.

All work shall be done in accordance with the Standard Specifications of the Colo State Highway Dept. adopted Sept. 3, 1929.

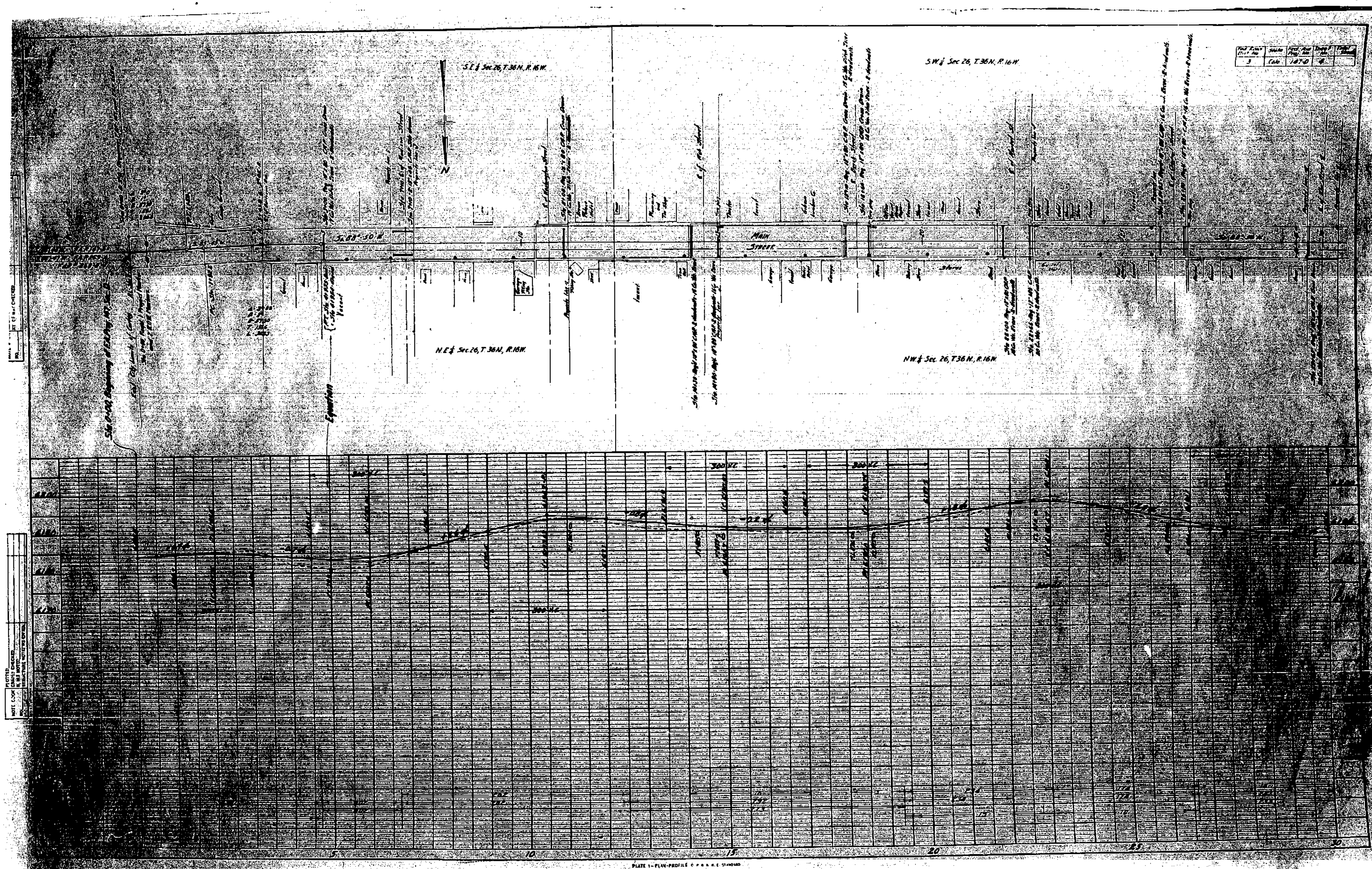
Post shall be made of Class D concrete (Slump 3" to 6") except use White Portland Cement.

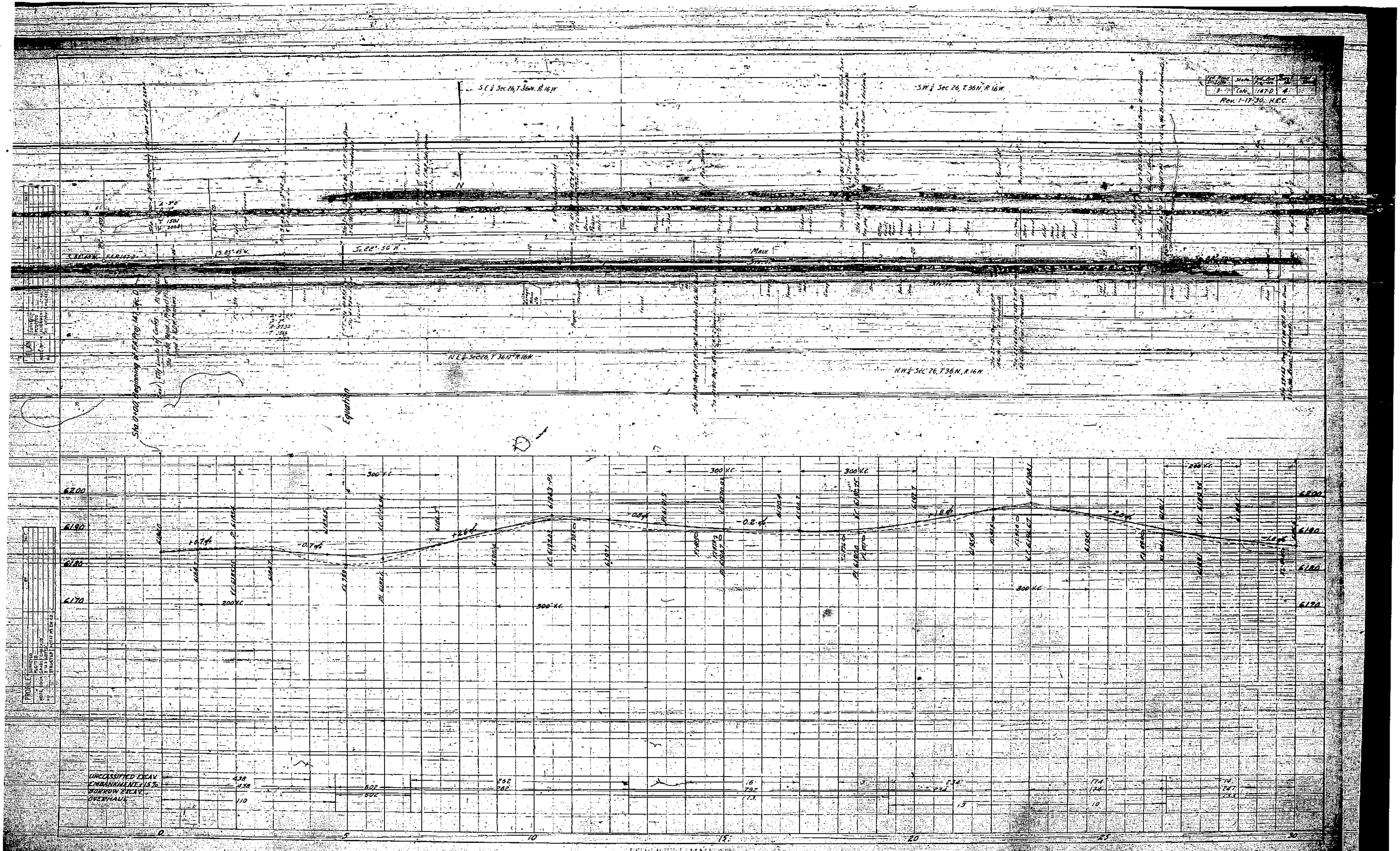
Reinforcing bars shall be ½ inch plain square.

All exposed surfaces shall be rubbed free of form marks.

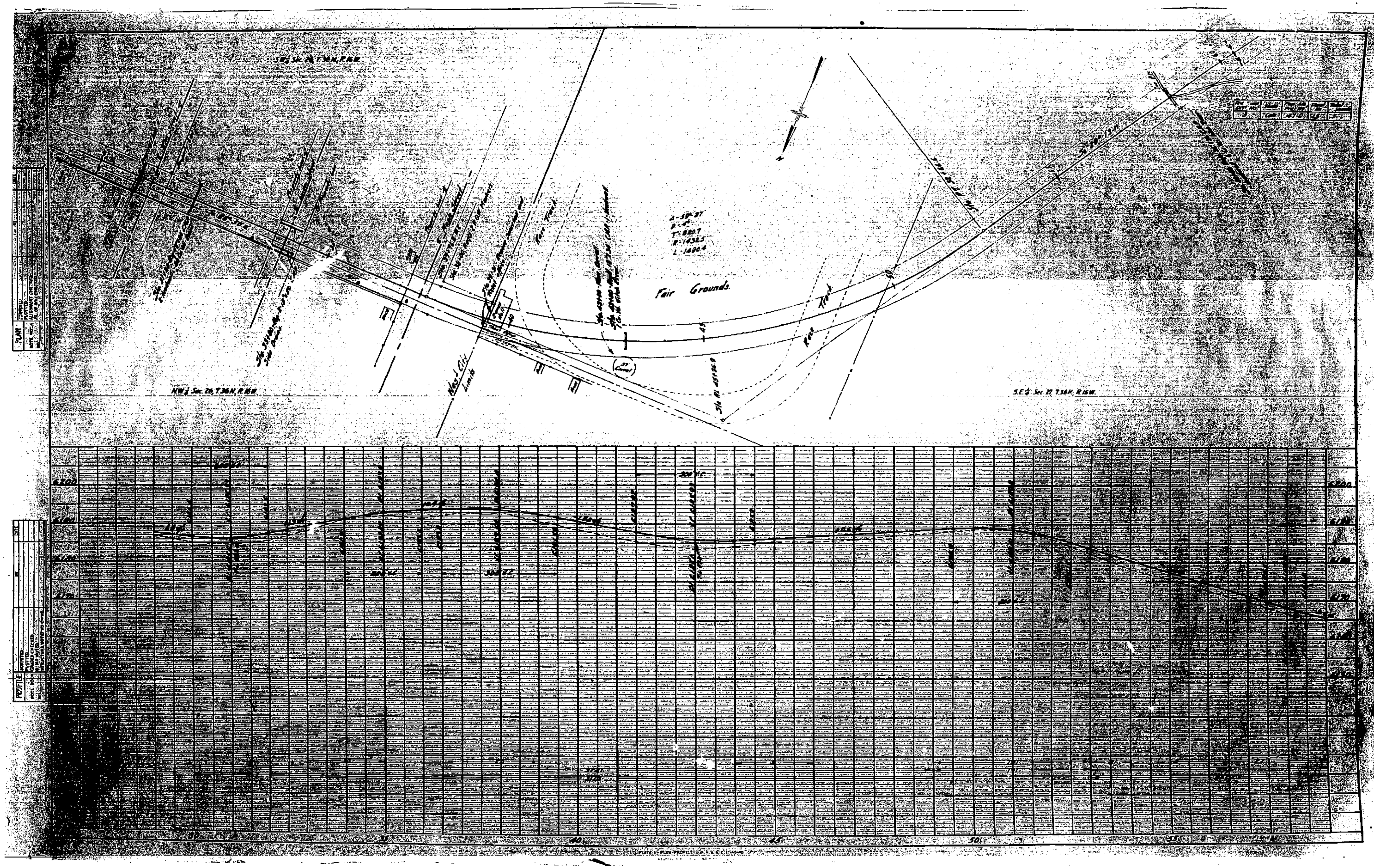
All letters and numbers shall be 2 inch, plain upright block, painted or stenciled on the concrete with a good quality black paint, See Item 41 "Second Field Coat – Dark". Numbers and arrows shall show the proper numbers and directions of the projects each way from where post is placed.

Post is to be set with sign facing the road at the end of the project, five feet beyond edge of shoulder in such a position that the sign will properly indicate the projects to which it refers.

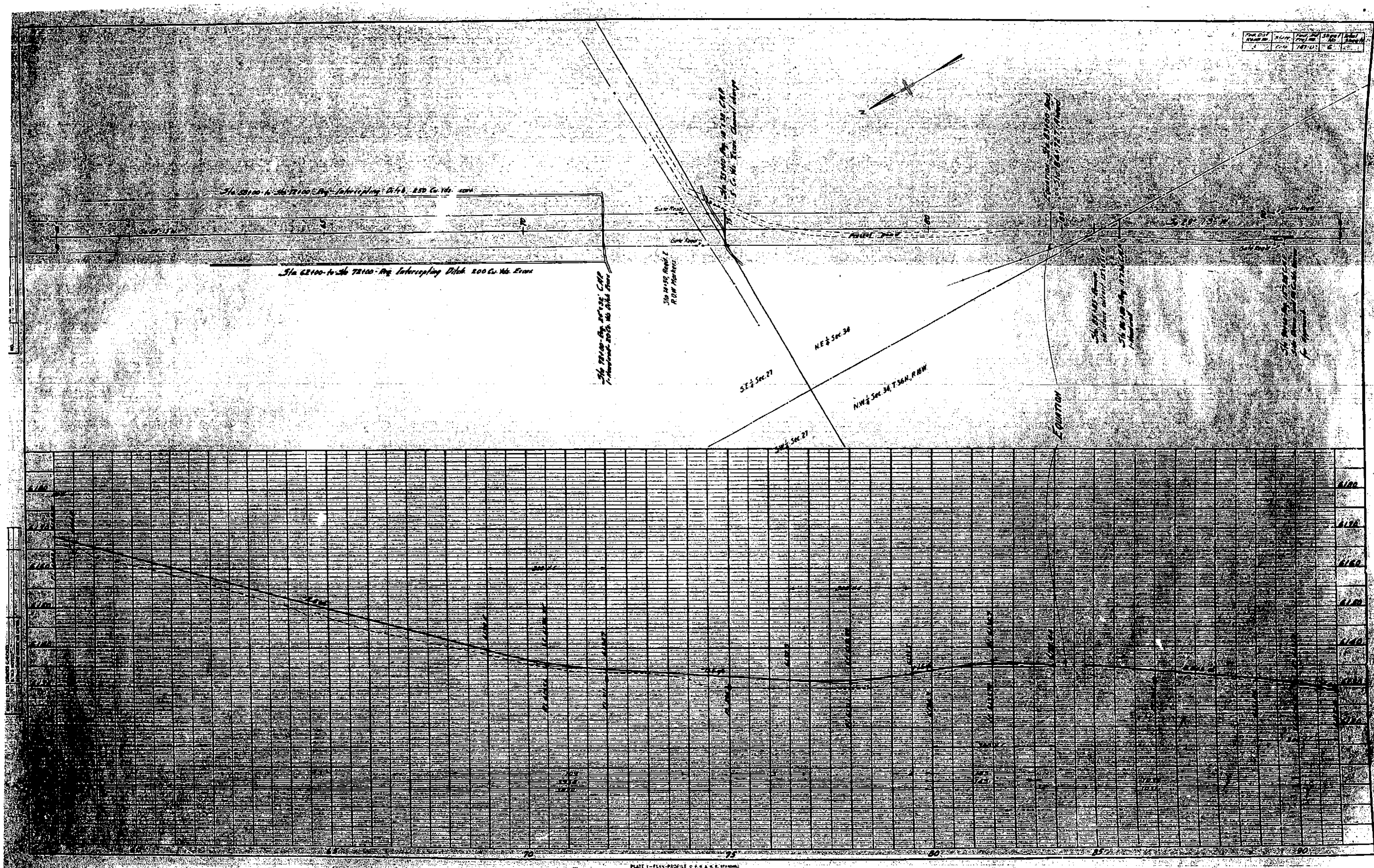

S.E.¼ Sec. 26, T.36N., R.16W.
SW¼ Sec. 26, T.36N., R.16W.
N.E.¼ Sec. 26, T.36N., R.16W.
NW¼ Sec. 26, T.36N., R.16W.
N
Main
Street
Equation
5
10
15
20
25
30



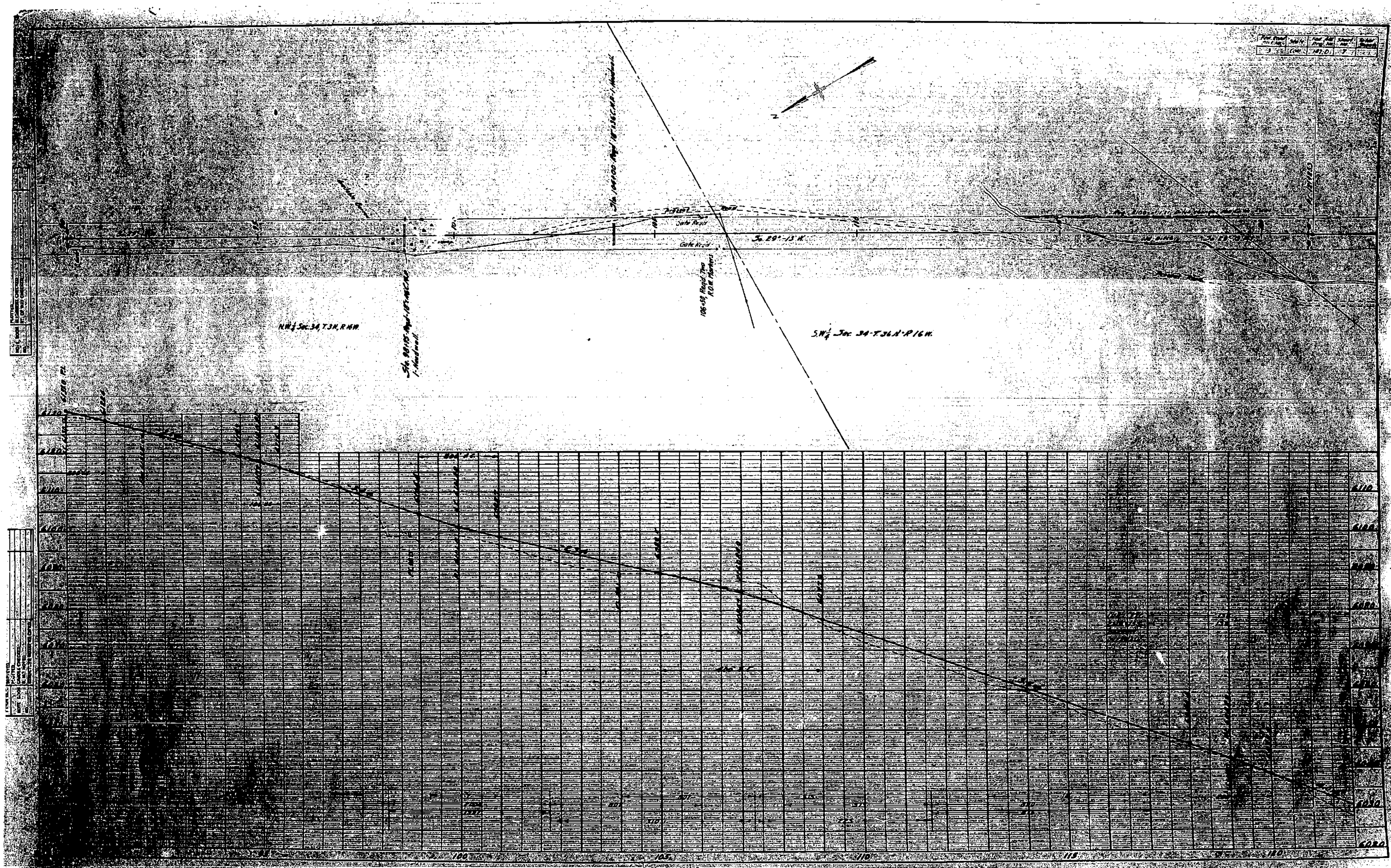
SE ¼ Sec 26, T 36N, R 16W
SW ¼ Sec 26, T 36N, R 16W
Rev. 1-17-30. H.E.C.
PLAN
Main
NE ¼ Sec 26, T 36N, R 16W
NW ¼ Sec 26, T 36N, R 16W
Equation
PROFILE
300' V.C.
200' V.C.
6200
6190
6180
6170
UNCLASSIFIED EXCAV.
EMBANKMENT + 15%
BORROW EXCAV.
OVERHAUL
0
5
10
15
20
25
30

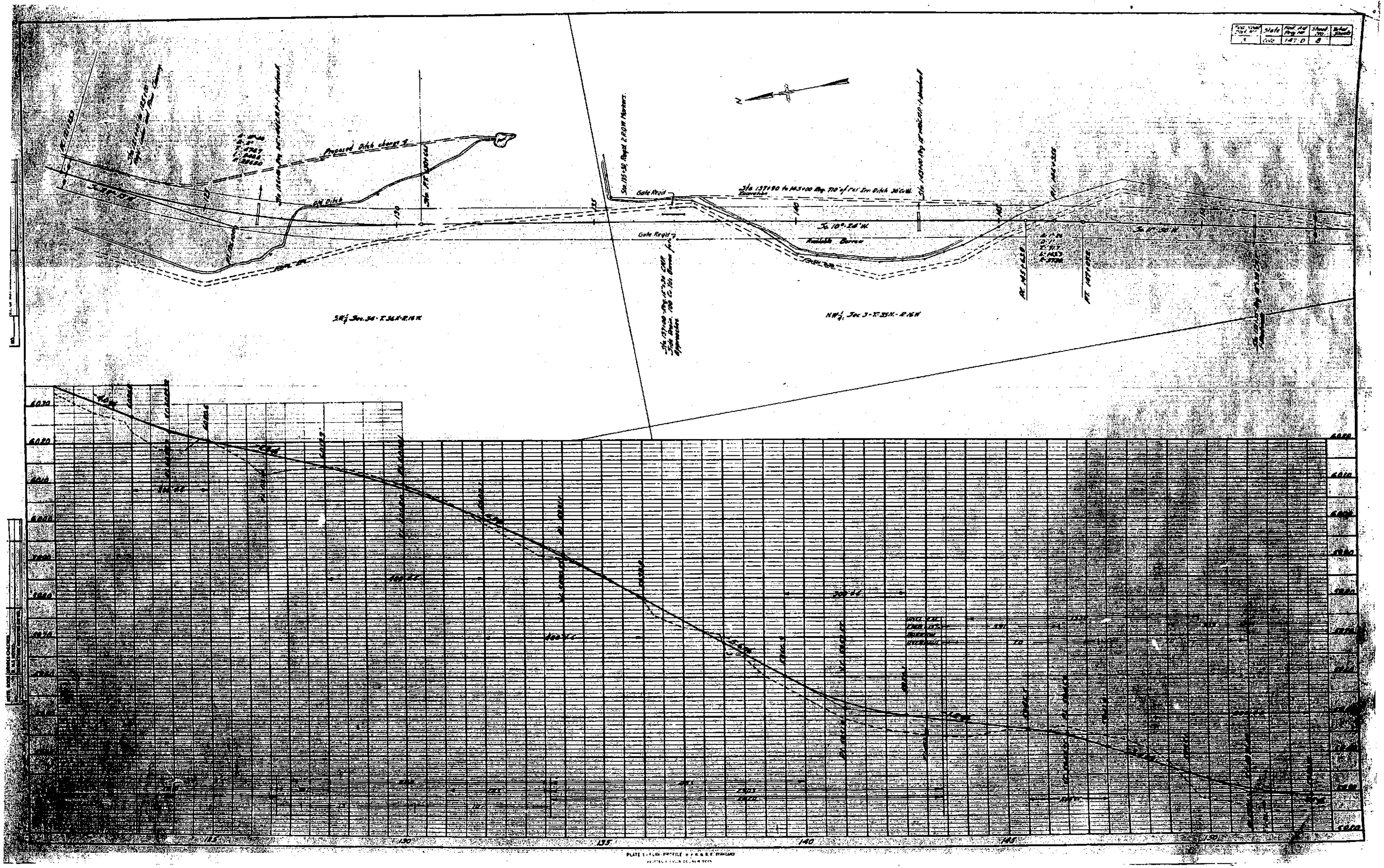


PLAN
PROFILE
S.E.¼ Sec. 28, T.36N., R.16W.
N.W.¼ Sec. 26, T.36N., R.16W.
S.E.¼ Sec. 27, T.36N., R.16W.
Fair Grounds
Race Track
Δ-59°37'
D-4°
T-820.7
R-1432.5
L-1490.4
6200
30
35
40
45
50
55

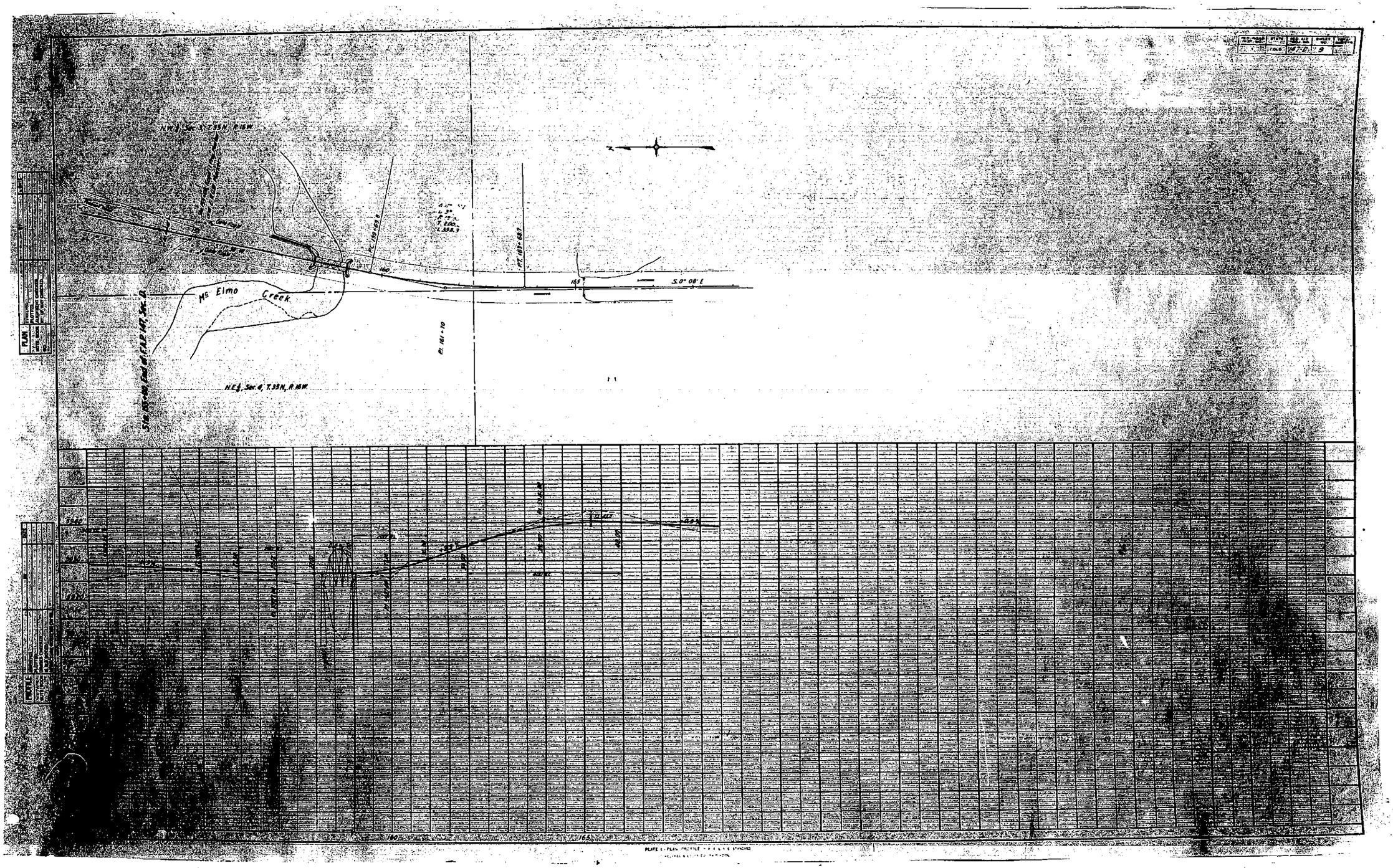


Fed. Aid Road No.
State
Fed. Aid Proj. No.
Sheet No.
Total Sheets
3
Colo
147-D
6
Sta 62+00 to Sta 72+00 Reg. Intercepting Ditch 200 Cu. Yds. Exc.
Forest Road
Gate Road
N.E. ¼ Sec. 34
S.E. ¼ Sec. 27
N.W. ¼ Sec. 34, T.36N., R.16W.
SW ¼ Sec. 27
Equation
Gate Road
6180
6170
6160
6150
6140
6130
70
75
80
85
90


Fed. Road Dist. No. | State | Fed. Aid Proj. No. | Sheet No. | Total Sheets
3 | Colo. | 147-D | 7
N.W.¼ Sec. 34, T.3N, R.16W.
Sta. 98+15 Req'd 18" C.M.P. 1-Headwall
Sta. 104+00 Req'd 18" 36' C.M.P. 1-Headwall
Gate Req'd
So. 29°-13' W.
106+58 Req'd Two R.O.W. Markers
S.W.¼ Sec. 34-T.36N-R.16W.
6110
6100
6080
6030
6020
100
105
110
115
120
PLATE 1—PLAN-PROFILE B.P.R. & P.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK



Fed. Road Dist. No. | State | Fed. Aid Proj. No. | Sheet No. | Total Sheets
3 | Colo | 147-D | 8 |
Proposed Ditch change
Old Ditch
Gate Reqd
Sta 135+30, Reqd 2 R.O.W. Markers
Sta 137+90 to 145+00 Req. 710' of 7x1' Irr. Ditch 36' c.c. Excavation
S. 10° 24' W.
Available Borrow
S. 11° 30' W.
SW 1/4 Sec. 34 - T. 36 N. - R. 16 W.
NW 1/4 Sec 3 - T. 35 N. - R. 16 W.
6030
6020
6010
6000
125
130
135
140
145
150
PLATE 1 - PLAN-PROFILE


NW¼ Sec. 9, T.39N, R.16W.
Mc Elmo Creek
N.E.¼, Sec. 8, T.39N, R.16W.
S.0° 08' E
165'
160'
PLAN
PROFILE

COLORADO
Department of Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500002026

Description:
ROW Plans 11X17

Route # and Mile Points:
US 160

Originating Office:

ROW/Survey

File Name:
F.A.P. 147-D_ROW(.PDF)

Box Location:

32 of 38

For assistance, or to request changes to this form,
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MOUNTAIN STATES IMAGING

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS INCL. TI.
3	COLO.	147-D	1	

Rev. 1-10-30 Sheet 3a added. K.E.B.

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. 147-D
STATE HIGHWAY NO. 106
MONTEZUMA COUNTY

INDEX OF SHEETS

SCALES

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ON PROFILE { 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL

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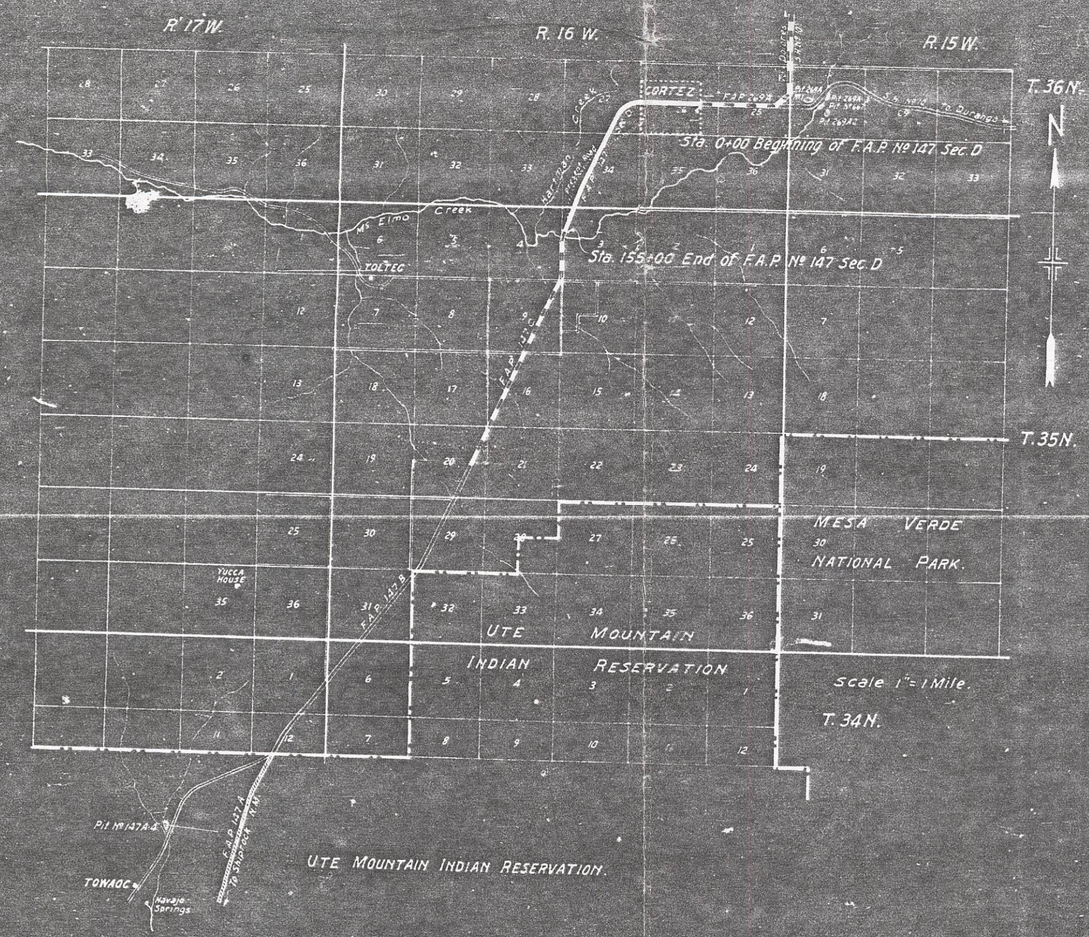
GROSS LENGTH OF PROJECT 15,327.4 FT. = 2.903 MILES.
NET LENGTH OF PROJECT 15,327.4 FT. = 2.903 MILES.

CONVENTIONAL SIGNS

- Center Line of Improvement
- Fence
- Telephone Line
- Right of Way Line
- ¼ Section Line
- Section Line



RECOMMENDED FOR APPROVAL
12/23/29
J. E. Mahoney
ASSISTANT ENGINEER

APPROVED 12/28/29
L. W. Blauvelt
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

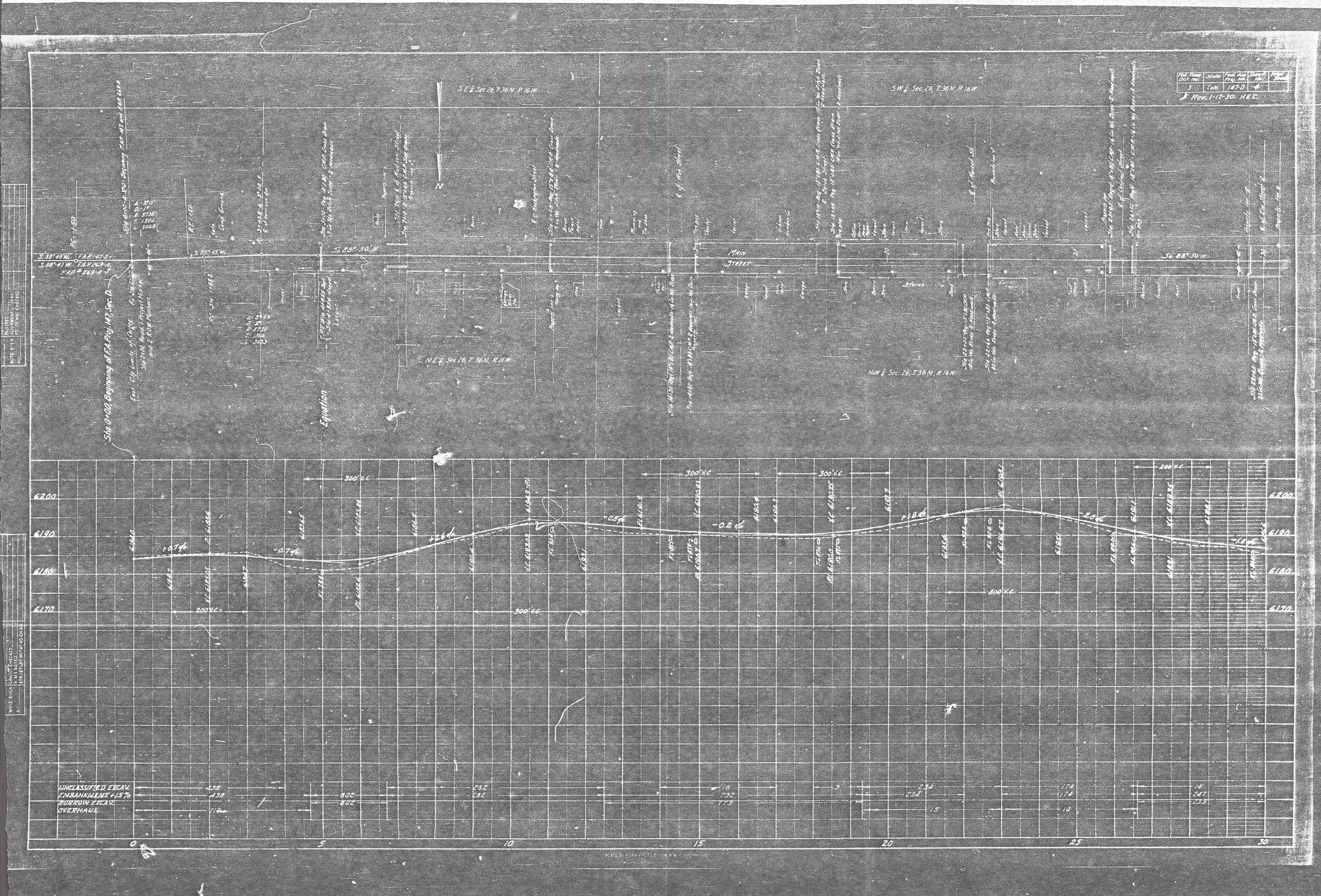
DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL

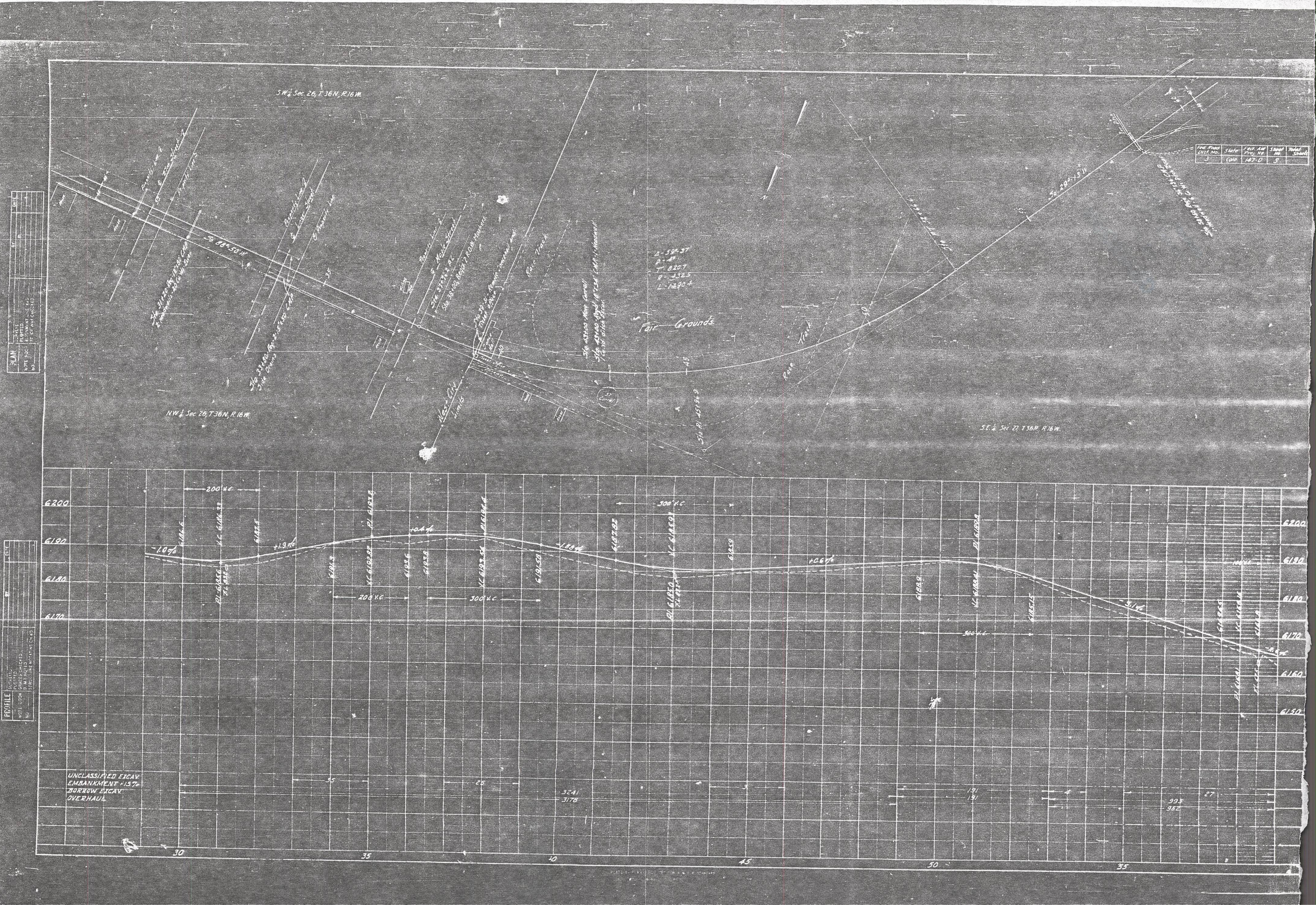
CHIEF ENG. BUREAU PUBLIC ROADS

APPROVED

DIRECTOR BUREAU PUBLIC ROADS



Fed. Road Dist. No. | State | Fed. Aid Proj. No. | Sheet No. | Total Sheets
3 | Colo. | 147-D | 4 |
Rev. 1-17-30. H.E.C.
S.E.¼ Sec. 26, T. 36 N., R. 16 W.
S.W.¼ Sec. 26, T. 36 N., R. 16 W.
N.E.¼ Sec. 26, T. 36 N., R. 16 W.
N.W.¼ Sec. 26, T. 36 N., R. 16 W.
N
S. 88°-48' W. F.A.P. 147-D
S. 88°-47' W. F.A.P. 269-A
F.A.P. # 269-A
S. 85°-45' W.
So. 88° 50' W
So. 88°-30' W
MAIN
STREET
Stores
Sta. 0+00, Beginning of F.A. Proj. 147, Sec. D
East City Limits of Cortez
Equation
Δ 3°0'
D 1°
R 5730
T 150.2
L 300.0
Δ 3°02'
D 1°
R 5730
T 151.6
L 300.3
6200
6190
6180
6170
+0.7%
-0.7%
+2.6%
-0.8%
-0.2%
+1.8%
-2.0%
-1.0%
200' V.C.
300' V.C.
300' V.C.
300' V.C.
300' V.C.
300' V.C.
200' V.C.
UNCLASSIFIED EXCAV.
EMBANKMENT + 15%
BORROW EXCAV.
OVERHAUL
438
438
110
802
802
282
282
16
792
773
3
234
234
15
174
174
10
14
247
233
0
5
10
15
20
25
30


S.W.¼ Sec. 26, T.36N, R.16W.
N.W.¼ Sec. 26, T.36N, R.16W.
S.E.¼ Sec. 27, T.36N, R.16W.
Property line
℄ Elm Street
℄ Linden Street
℄ Maple Street
So. 88° 50' W.
So. 29° 13' W.
Sta. 38+00, Reqd. 12 R.O.W. Markers
Race Track
Fair Grounds
West City Limits
Δ - 55° 37'
T - 820.7
R - 1325
L - 1290 +
Fed. Road Dist. No. | State | Fed. Aid Proj. No. | Sheet No. | Total Sheets
3 | Colo. | 147-D | 5 |
PLAN
PROFILE
6200
6190
6180
6170
6160
6150
200 V.C.
300 V.C.
-1.0%
+1.9%
+0.4%
-1.88%
+0.6%
-3.1%
P.I. 6193.8
P.I. 6194.4
P.I. 6189.8
UNCLASSIFIED EXCAV.
EMBANKMENT +15%
BORROW EXCAV.
OVERHAUL
35
25
3241
3178
3
191
191
4
993
962
27
30
35
40
45
50
55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	147-D	1	-

Rev. 11-39 Sheet 39 added. E.E.R.

COLORADO
STATE HIGHWAY DEPARTMENT

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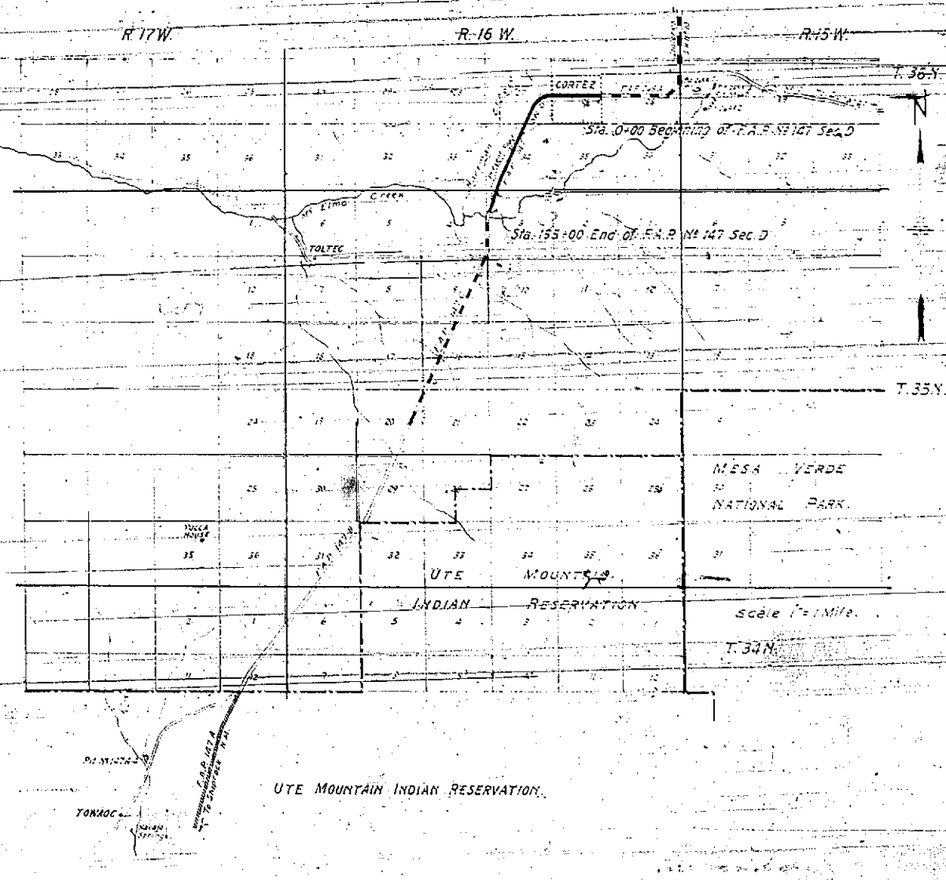

RECOMMENDED FOR APPROVAL
ASSISTANT ENGINEER
APPROVED 12/26/39
STATE HIGHWAY ENGINEER

[redacted]
DIST. ENG. BUREAU PUBLIC ROADS

[redacted]
CHIEF ENG. BUREAU PUBLIC ROADS

[redacted]
DIRECTOR BUREAU PUBLIC ROADS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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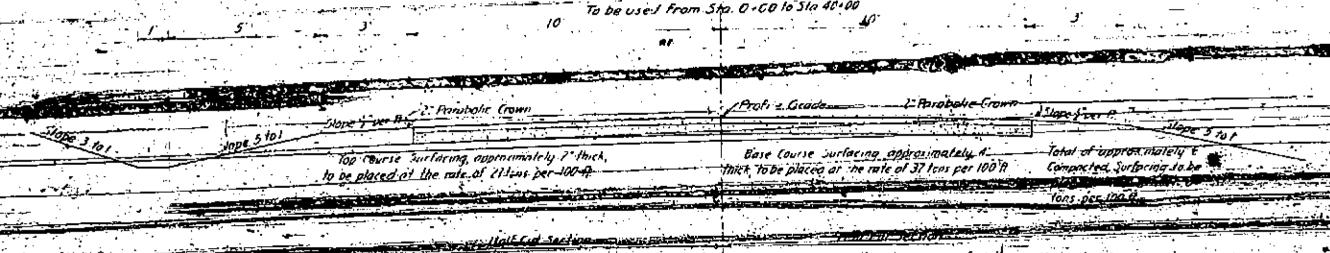
TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

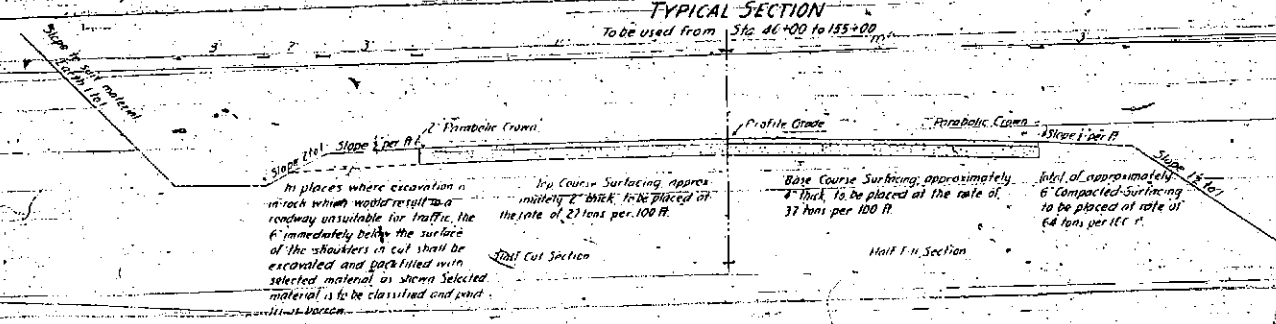
TYPICAL SECTION

To be used from Sta. 0+00 to Sta 40+00



TYPICAL SECTION

To be used from Sta. 40+00 to 155+00



STRUCTURE LIST

Station	Description	Removals	Unc. Excavation	Excavation for Structures Cu. Yds.	Excavation for Structures Cu. Yds.	Unclassified Borrow	Cement Rubble Masonry	Corrugated Metal Culvert Pipe Lin. Ft.			
5+00	C.M.P. Culvert 2 Hdwls Exc. for Ditch		12	15			2.8		50		
7+10	Two C.M.P. Side Drains			1				92			
11+08	C.M.P. Culvert 2 Hdwls		17	11			2.6		70		
14+30	C.M. Culvert 2 Hdwls Exc. for Ditch		16	17			2.8		60		
14+90	C.M.P. Culvert 2 Hdwls Exc. for Ditch		11	21			2.9		90		
16+10	2		15	17			2.8		80		
17+64	2		14	[illegible]			[illegible]		50		
[illegible]	[illegible]		20	28			2.8		80		
25+95	2		16	20			2.8		80		
26+40	[illegible]		[illegible]	[illegible]			2.5		90		
29+65	2		20	24			2.8		80		
31+20	2		20	13			2.8		80		
33+50	Two C.M.P. Side Drains			4				100			
39+3.	Remove Two Buildings	1									
43+00	C.M.P. Culv. 1 Hdwl Exc. Rem'v Corral	1	1	3			1.4		34		
58+50	1 for Ditch		6	11			3.7				36
58+00 to 72+00	Intercepting Ditch		250								
62+00 to 72+00			20								
72+00	C.M.P. Culvert 1 Hdwl Exc. for Ditch		20	13			1.7			32	
75+00			5	4			1.4		38		
85+85	Remove 15'×0.5'×18' Stone Culvert	1									
86+50	C.M.P. Culvert 1 Hdwl			5			1.3		34		
90+60	C.M.P. Side Drain Approach			1		50		28			
98+75	C.M.P. Culvert 1 Hdwl			6			1.4		46		
104+00	1			6			1.3		36		
114+00 to 133+00	Ditch Change		100								
126+40	C.M.P. Culvert 1 Hdwl			5			2.1			44	
137+00	Side Drain Approach			1		100		30			
131+50 to 145+00	Ditch Change		30								
143+00	C.M.P. Culvert 1 Hdwl			9			1.4		40		
151+35	1			14			1.4		38		
			817	332		150	51.3	330	1146	76	36

* Structural Excavation is estimated to be 10% Rock and 90% Common each of which is estimated to be 90% dry and 10% wet.

GENERAL NOTES.

Specifications. This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department as adopted Sept. 3, 1929.

Quantities. All quanties on preliminary plans are to be considered approximate only.

Borrow. All roadway excavation outside of ditch and cut slopes, as shown on typical section, except that specially noted, is to be classified and paid for as borrow. Unless otherwise stated, all borrow is available on the right of way or immediately adjacent thereto within 300 ft. of where needed.

Waste. All excavation quantities in embankment outside of the lines of typical section shall be considered as waste, and no payment for these quantities shall be made unless specifically provided for by written order from the Department to the Contractor.

Gravel Surfacing. The Department estimates that surfacing material will be obtained from the vicinity of Pit No. 147 A-4 shown on the Title Sheet. This plan involves approximately 105 000 ton miles of overhaul on Gravel Surfacing. It is estimated that approximately 12 000 tons of material can be obtained from this locality. If the contractor, for his own convenience, elects to use a plan other than the above, overhaul in excess of that under the Department's plan will not be allowed.

Replacement Gravel. Stock piles of Gravel Surfacing Material, each to contain approximately 100 tons, are to be placed approximately one half mile apart, as directed by the engineer. This material is for use in maintenance operations after the completion of the project.

Superelevation. Curves shall be superelevated to a maximum amount as determined by the following formula: Superelevation in feet = (0.0105 × D × W) in which D = degree of curvature and W = width of roadway in ft. A superelevation of 0.0833 per ft. width of roadway shall not be exceeded. The section is to be standard except that a flat crown is to be used. The change from standard section to superelevated section is to take place over a distance of 100 ft., half on curve and half on approaching tangent.

Clearing and grubbing. The entire project is to be cleared for the full width of the right of way, and the cost thereof is to be included in the lump sum price for clearing and grubbing the entire project.

Headwalls. All pipe cross culverts are to be provided with one headwall on the inlet end unless otherwise noted. Headwalls to be constructed of cement rubble masonry.

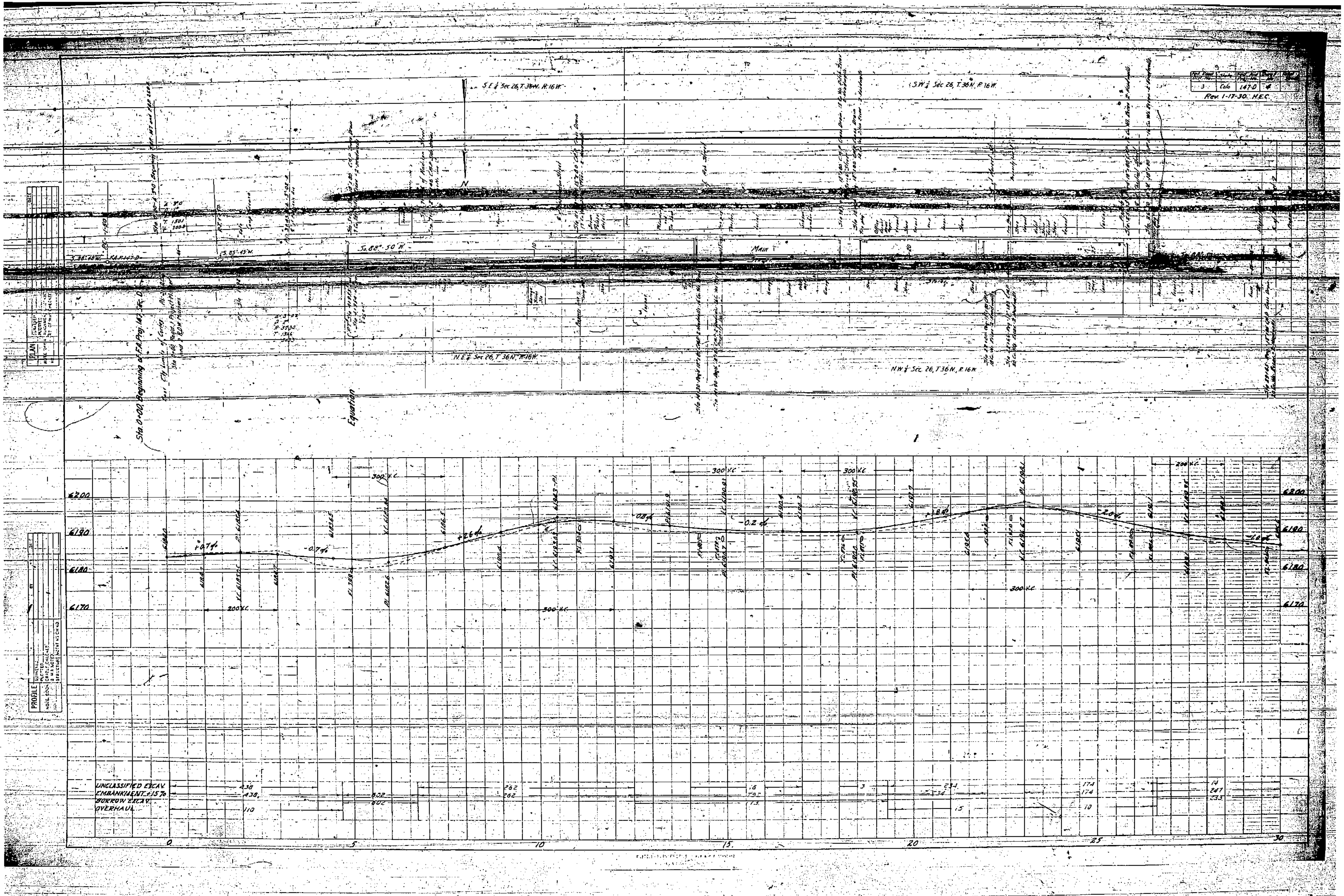
Gates in R.O.W. fences are to be provided opposite all side drains and at other places indicated on plans.

FENCING REQUIREMENTS

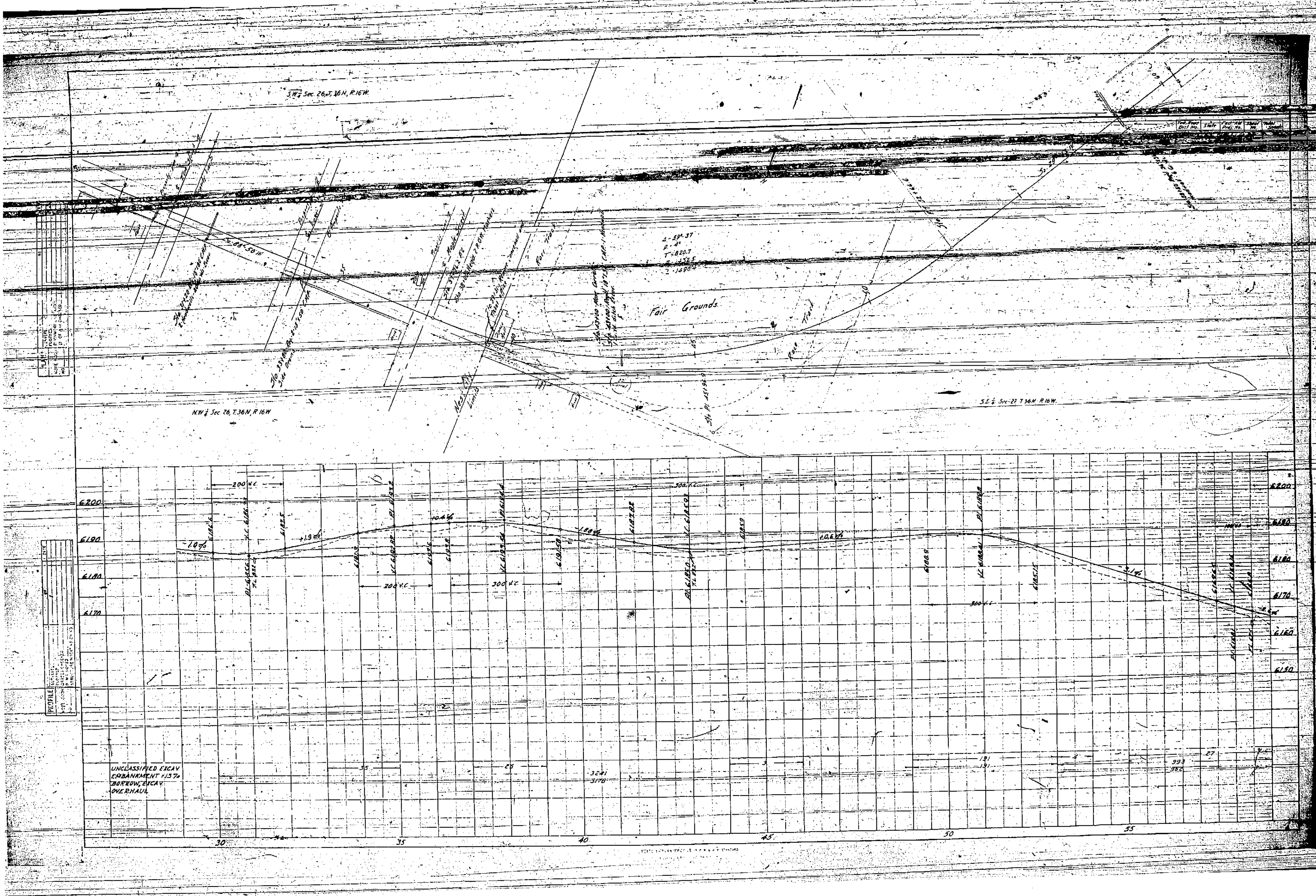
Sta	Location	Remove	Build
39+30 to 40+90	Rt and Across Road	230 Ft	
50+00	Across Road	130	
74+00	Across Road	90	
85+00 to 98+50	Rt.	1350	
99+30 to 105+00	Across Road	530	
106+75		80	
153+50 to 155+00	Left	150	
38+00 to 155+00	Both Sides		23060
Totals		2 560	23060

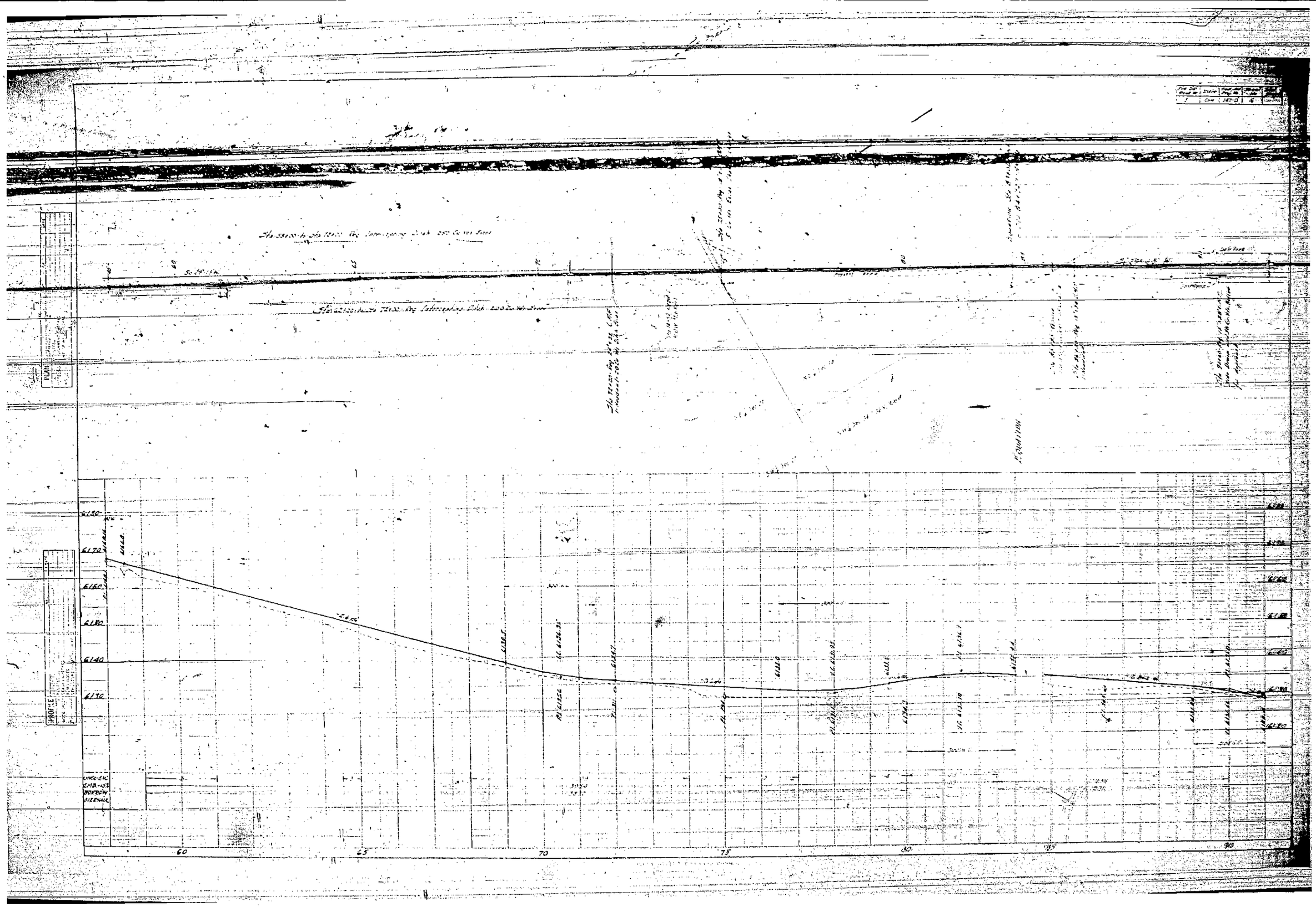
LIST OF APPROXIMATE QUANTITIES

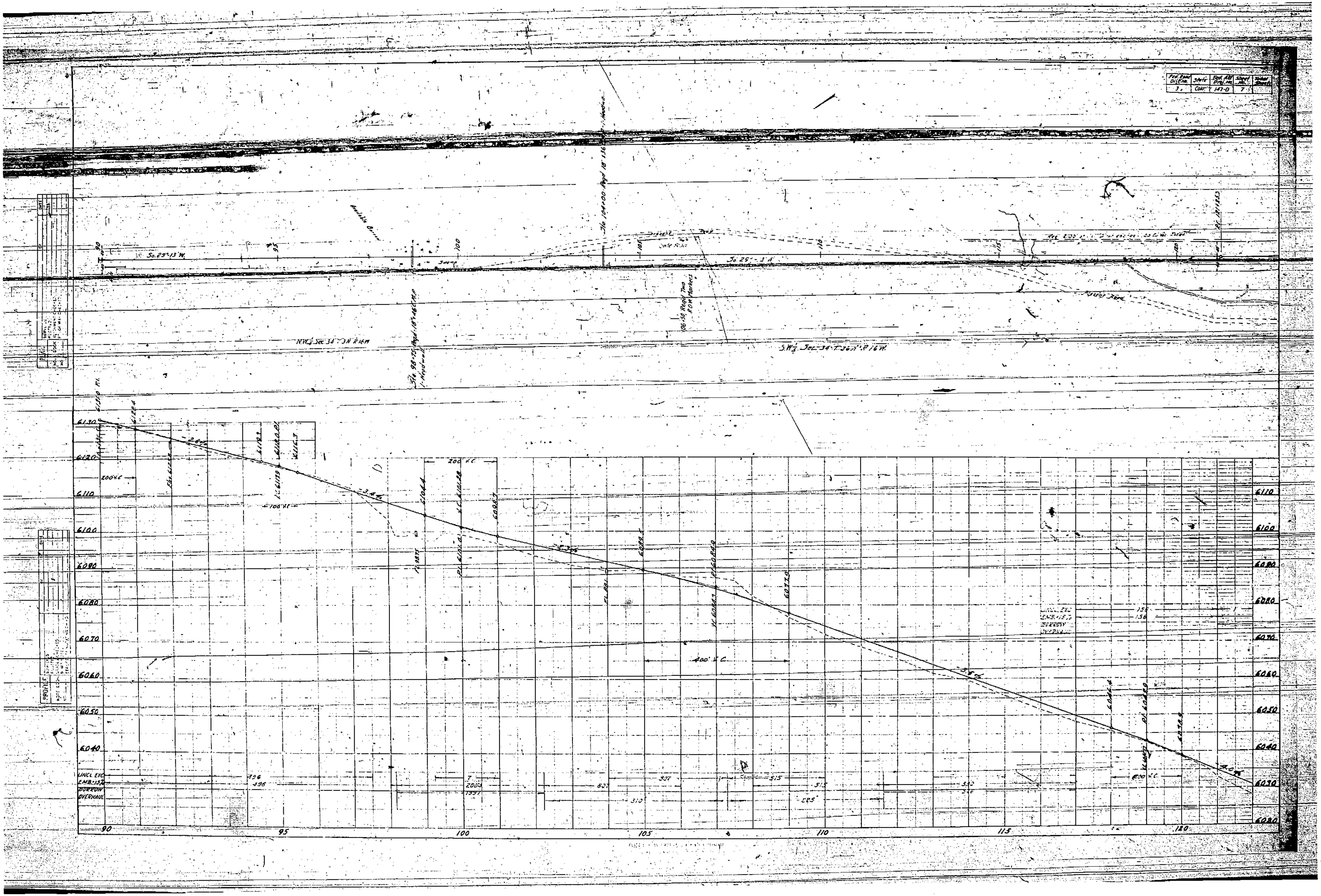
No.	Item	Unit	Quantity
10a	Clearing and Grubbing Entire Project	Lump Sum	
11a	Removing Two Buildings, Sta. 39+	" "	
11b	" Corral, Sta. 43	" "	
11c	" Culvert, Sta 85+	" "	
12a	" Fence	Lin. Ft.	2 600
13c	Unclassified Excavation	Cu. Yd.	7300
14a	Dry Rock Excavation (Structures)	" "	40
14b	" Common	" "	280
14c	Wet Rock	" "	10
14d	" Common	" "	40
17c	Unclassified Borrow	" "	19 200
18a	Overhaul on Excavation and Borrow	Sta. Yd.	1 000
30a	Gravel or Crushed Rock Surfacing	Ton	9 810
30b	Overhaul on Gravel or Crushed Rock Surf'g	Ton Mile	105 000
49	Cement Rubble Masonry	Cu. Yd.	52
53a	15" Corrugated Metal Culvert Pipe	Lin. Ft.	330
53b	18" " "	" "	1146
53c	24" " "	" "	76
53e	36" " "	" "	36
75a	Galvanized Barbed Wire Fence		23 100
75b	Gates in "	Ea.	10
78	Project Marker	"	2
79	Right of Way Markers	"	12
32	Replacement Gravel (Not for re. Fed Aid)	Ton	700
30a	Overhaul	Ton Mile	8000



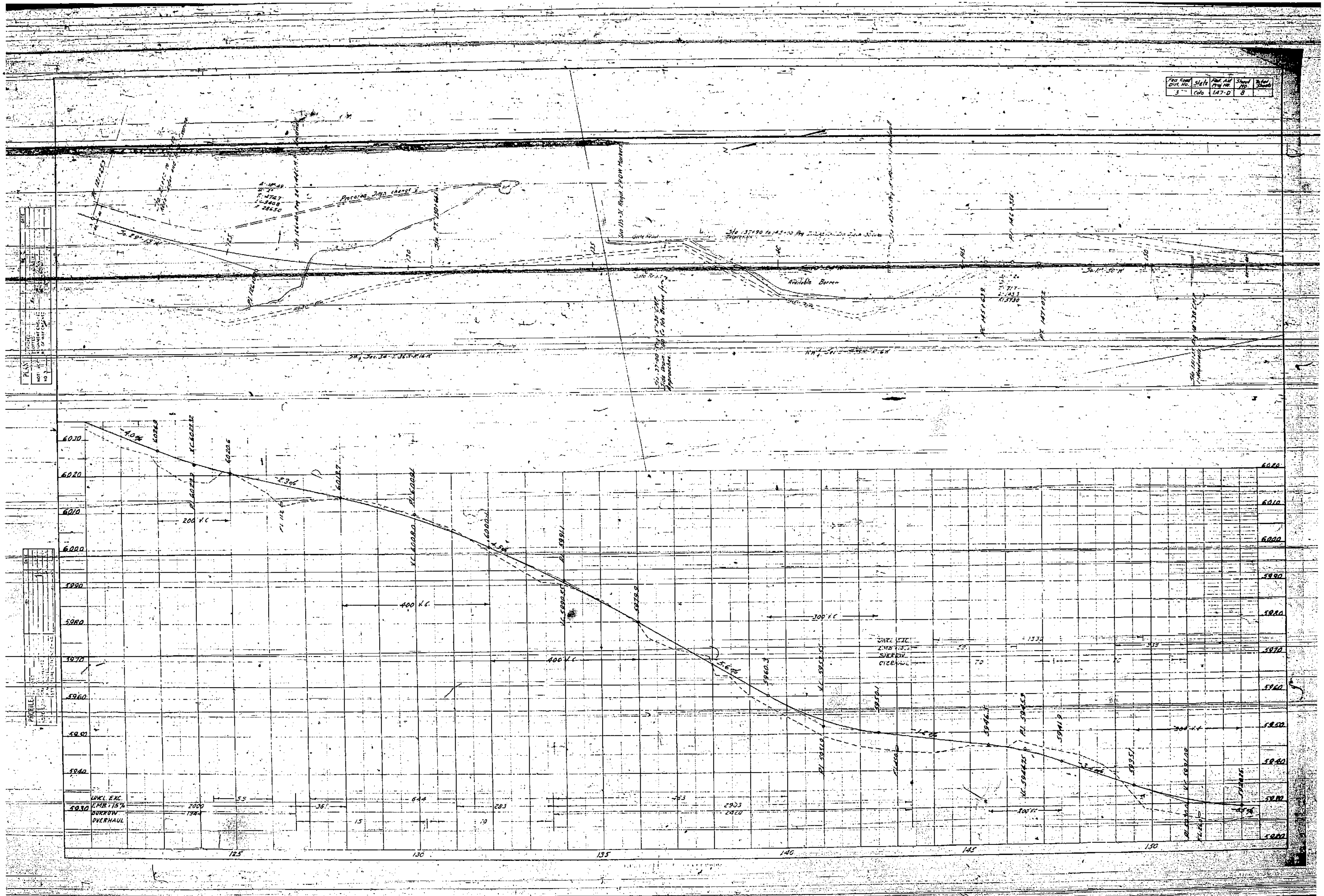
3
Colo
147-D
Rev. 1-17-30. H.E.C.
S.E.¼ Sec. 26, T. 36 N., R. 16 W.
S.W.¼ Sec. 26, T. 36 N., R. 16 W.
N.E.¼ Sec. 26, T. 36 N., R. 16 W.
N.W.¼ Sec. 26, T. 36 N., R. 16 W.
So. 88° 50' W.
Main
Equation
PLAN
PROFILE
6200
6190
6180
6170
300' V.C.
200' V.C.
+0.7%
-0.7%
+2.6%
-0.2%
+1.8%
-2.0%
UNCLASSIFIED EXCAV.
EMBANKMENT + 15%
BORROW EXCAV.
OVERHAUL
438
438
110
602
602
262
262
174
174
0
5
10
15
20
25
30


SW¼ Sec 26, T.36N, R.16W.
NW¼ Sec 26, T.36N, R.16W
S.E.¼ Sec 27, T.36N, R.16W.
Fair Grounds
Race Track
PROFILE
UNCLASSIFIED EXCAV.
EMBANKMENT +15%
BORROW EXCAV.
OVERHAUL
6200
6190
6180
6170
6160
6150
30
35
40
45
50
55


PLAN
PROFILE
6180
6170
6160
6150
6140
6130
60
65
70
75
80
85
90



Fed Road Dist No.
State
Fed Aid Proj No.
Sheet No.
Total Sheets
3
Colo
147-D
7
So. 29°-13' W.
NW¼ Sec 34 T 3N R16W
SW¼ Sec 34 T 36N R 16W
200' V.C.
100' V.C.
400' V.C.
PROFILE
UNCL EXC
EMB +15%
BORROW
OVERHAUL
6130
6120
6110
6100
6090
6080
6070
6060
6050
6040
6030
6020
90
95
100
105
110
115
120



Fed. Road Dist. No. | State | Fed. Aid Proj. No. | Sheet No. | Total Sheets
3 | Colo | 147-D | 8 |
PLAN
PROFILE
Δ: 18°49'
D: 2°
T: 474.7
L: 940.8
R: 2865.0
Proposed Ditch change
So. 29° 13' W.
Sta. PT. 130+66.1
Sta. 133+31 Reqd. 2 ROW Markers
Sta. 137+90 to 145+00 Req. Excavation
Available Borrow
So. 1° 50' W.
PT. 147+07.2
PI. 146+35.6
PC. 145+03.9
Sta. 137+00 Req. 5'' x 30' CMP Side Drain. 800 cu. Yds. Borrow for Approaches
Sta. 151+15 Req. 18'' x 38' CMP 1-Headwalls
SW¼ Sec. 34 - T. 36 N. - R. 16 W.
NW¼ Sec. 3 - T. 35 N. - R. 16 W.
N
125
130
135
140
145
150
6030
6020
6010
6000
5990
5980
5970
5960
5950
5940
5930
5920
-4.0%
-2.3%
-4.5%
-5.6%
-1.2%
-2.6%
-0.5%
6026.0
V.C. 6022.32
PI. 6022.0
6020.6
6012.7
PI. 6009.1
V.C. 6008.0
6000.1
PI. 5991.1
V.C. 5990.55
5979.0
5960.3
V.C. 5953.55
PI. 5951.0
5950.1
5946.3
PI. 5945.3
V.C. 5944.75
5941.9
5935.1
V.C. 5931.10
5928.75
200' V.C.
400' V.C.
400' V.C.
300' V.C.
200' V.C.
300' V.C.
UNCL. EXC.
EMB. + 15%
BORROW
OVERHAUL
55
2000
1944
361
644
15
283
10
2903
2420
1533
939
70

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	COLO.	147-D	9	

NW¼ Sec 3 T35N, R16W

Mc Elmo Creek

NE¼, Sec 4, T35N, R16W

Sta 155+00, End of F.A.P. 147, Sec. D

UNCL. EXC.	15
EMB. +15%	996
BORROW	991
OVERHAUL	

5940
5930
5920
5911

155
160
165