

SHEET NO.

- | | |
|---------|---|
| 1 | SHEET MAP, TITLE PAGE AND TABULATION OF LENGTH AND DESIGN DATA. |
| 2 | TYPICAL SECTION, GENERAL NOTES AND FENCING REQUIREMENTS. |
| 3 | SUMMARY OF APPROPRIATE QUANTITIES. |
| 4 | PIT LOCATIONS, SUB-BASE PLAN, SURFACING PLAN, R.O.W. MARKERS & TIMBER GUARD POSTS. |
| 5-7 | LIST OF STRUCTURES. |
| 7 | SUMMARY OF EARTHWORK QUANTITIES. |
| 8-9 | DETAILS OF SPECIAL IRRIGATION STRUCTURES. |
| 10-12 | DETAILS OF 18' x 6" x 6" C.B.C., STA. 107+. |
| 13 | STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES. |
| 14 | STANDARD SIDE APPROACH ROAD, FLARING, CUT SLOPE TREATMENT & WIDENING AT BRIDGES & AT CREST OF GRADES. |
| 15 | STANDARD MARKER POSTS AND FENCE MARKS. |
| 16 | STANDARD LETTERS & FIGURES FOR YEAR NUMBERS & STRUCTURE NUMBERS. |
| 17 | STANDARD NO. 12 AND NO. 13 CONCRETE INLETS. |
| 18 | STANDARD TIMBER GUARD POSTS. |
| 19 | STANDARD WIRE FENCE WITH METAL POSTS. |
| 20-21 | STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS. |
| 22 | STANDARD CONCRETE INLET FOR MEDIAN DITCH. |
| 23 | STANDARD SINGLE AND DOUBLE CONCRETE BOX CULVERTS
(SPECIAL REVISION) |
| 24 | STANDARD MANGALS FOR VARIOUS TYPES OF CONCRETE BOX CULVERTS. |
| 25A | REINFORCED CONCRETE CULVERT PIPE AND CONCRETE SEWER PIPE. |
| 26 | STANDARD HEADWALLS AND APRONS FOR C.M.P. CULVERTS. |
| 27-33 | STANDARD TYPES OF DITCHES AND CONSTRUCTION METHODS. |
| 34-92 | ALIGNMENT PLAN AND PROFILE.
CROSS SECTIONS. |
| 16A | STANDARD NO. 8 CONCRETE INLET, MANHOLE @ PIPE JOINTS ON SEWERS |
| M-1-C | |
| M-2-EW | |
| M-7-C | |
| M-10-B | |
| M-12-D | |
| M-10-D | |
| M-7-C | |
| M-29-B | |
| M-UG-A | |
| M-50-AW | |
| M-112-E | |
| M-102-H | |
| M-107-C | |
| M-12-OB | |

STATION		ROADWAY	MAJOR STRUCTURES
		LN., FT.	LN., FT.
5+11.0 BEGIN 5.0023(1) 11' East of Sta. 1985+87.6 On P.M. 352 F			
11+472.6 Bk. x 11+472.0 Ab. 109+11.5 Johnston City Limits 197+12.0 Begin C.B.C. Str. No. C-17-BA 197+30.1 End C.B.C. 200+00 END 5.0033(1)		10,961.6 2,338.7 2,800.6 261.9	26.1
TOTALS		19,062.7	26.1
SUMMARY POORLY MAJOR STRUCTURES		19,062.7 26.1	26.86 0.005
TOTAL		19,062.7	26.86
DESIGN DATA MAXIMUM DEGREE OF CURVE MAXIMUM GRADE MINIMUM N.P.S.D. (HORIZONTAL) MINIMUM N.P.S.D. (VERTICAL) MAXIMUM DESIGN SPEED		OUTSIDE JOINTWORK 19'00" 3:103 12507 355'	INSIDE JOINTWORK 9'00" 7:003 1300' 3:10' 40 M.P.H.

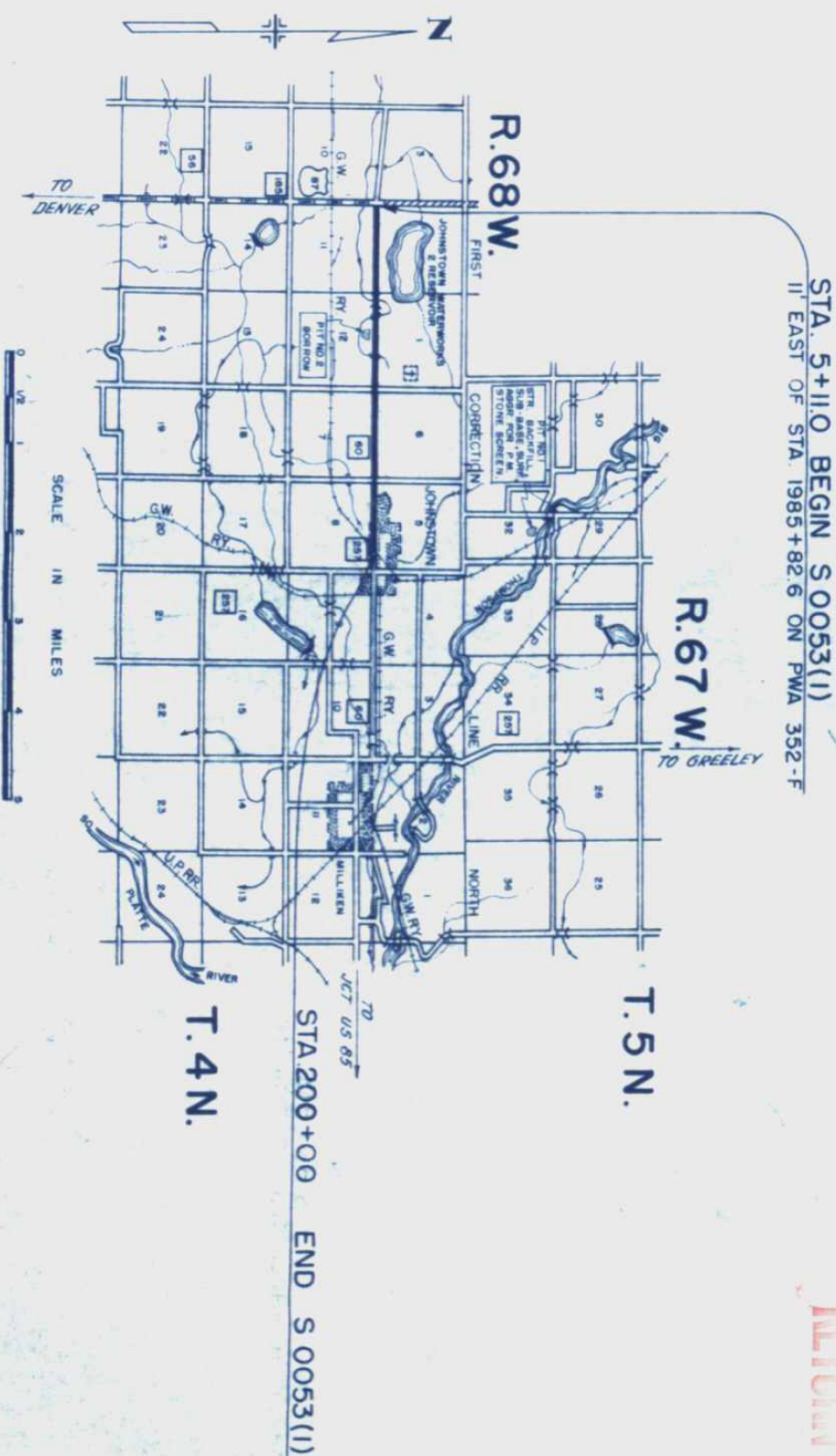
SCALES OF ORIGINAL DRAWINGS

ON PLAN, 1 IN. = 100 FT.
ON PROFILE, 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL

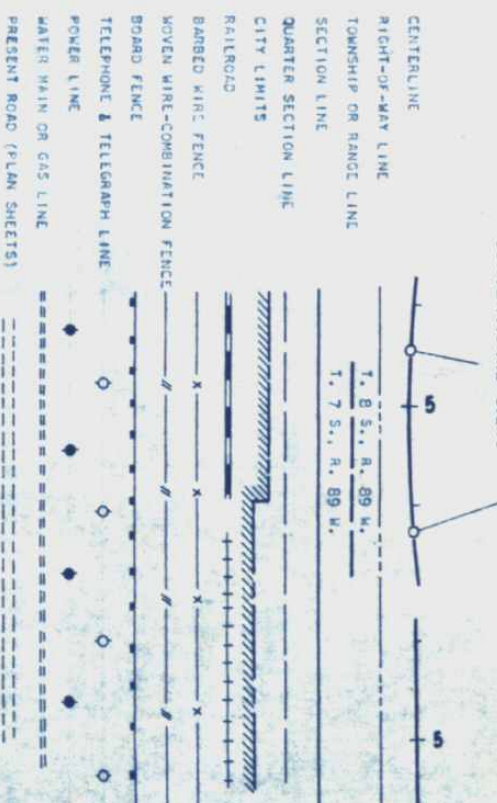
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

GROSS LENGTH OF PROJECT: 19,488 FT. = 3.69 MI.

NET LENGTH OF PROJECT:



CONVENTIONAL SIGNS



NOTICE TO BIDDERS

IT IS RECOMMENDED THAT BIDDERS ON THIS PROJECT GO OVER THE PLAN DETAILS WITH ONE OF THE FOLLOWING FIELD REPRESENTATIVES OF THIS DEPARTMENT:

EDM. W. DYVATT, CONSTR. ENGR., GALLEY, COLORADO
OFFICE PHONE 3196; HOME PHONE 1693 M
LINN D. MART, RESIDENT ENGINEER
GALLEY, COLORADO

COLORADO
DEPARTMENT OF HIGHWAYS

APPROVED: Meredith Nicholas 4/2/57
CHIEF ENGINEER DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED: _____

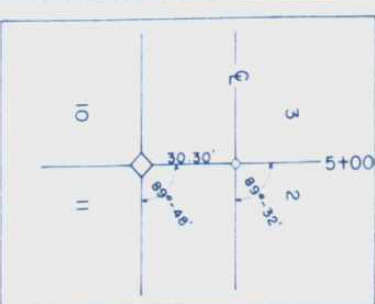
DISTRICT ENGINEER

S.E. 1/4 SEC. 3
T. 4 N., R. 68 W.

Note
Alignment and Grades as shown
are subject to modification during
construction after approval by the
Denver Office.

Soil data shown on the plans is ob-
tained from best available testing
laboratory information. This infor-
mation is shown for convenience of the
Contractor and the Department does
not guarantee the accuracy of these
tests. If materials are not conforming
to the data on plans are encountered
during construction, the grading plan
shown on plans will be modified where
necessary to secure dense, stable
embankments.

5+ - Reg'd Approach to Project.



5+ - Reg'd Project
Marker, Rt.
(State Forces)

N.E. 1/4 SEC. 10

STA. 5+11.0 BEGIN S 0053(1)
11' EAST OF STA. 1985+82.6 ON PWA 352-F

N.W. 1/4 SEC. 11

S.W. 1/4 SEC. 2
T. 4 N., R. 68 W.

Cultivation

NOTE:

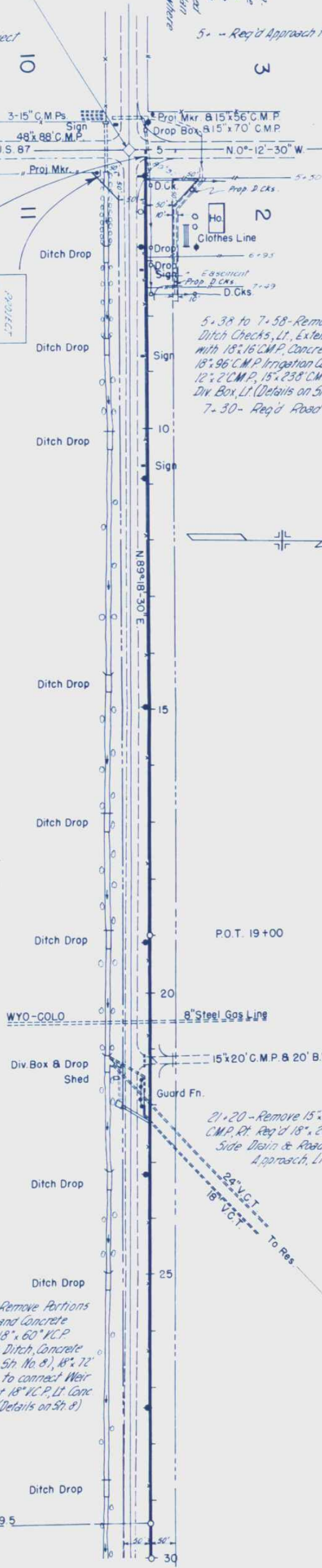
All power poles owned by Colo Central Power Co.
All Tel. Poles owned by M.S.T. & T. Co.
All Light Poles owned by the Town of
Johnstown, Colo.

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0053 (1)	27	

REV. 4-10-57 D.H.H.



5+38 to 7+58-Remove 4 Concrete
Ditch Checks, Lt., Extend 15' 70' C.M.P.
with 18" 16' C.M.P. Concrete collar, Manhole
18" 96' C.M.P. Irrigation Culv. Div. Box with
12" 2' C.M.P., 15" 238' C.M.P. Irrigation Culv. &
Div. Box, Lt. (Details on Sh. No. 8)
7+30- Reg'd Road Approach, Lt.



20+51 - Encase Gas Line
(Force Account, Work by
Colo - Wyo Co Forces)

21+ to 22+ - Remove Portions
of 2-18" V.C.P.'s and Concrete
Weir, Rt., Reg'd 18" 60" V.C.P.
elbow Irrigation Ditch, Concrete
Weir (Details on Sh. No. 8), 18" 72"
R.C.P. Culv. to connect Weir
to Present 18" V.C.P., Lt. Conc
Collar, Lt. (Details on Sh. 8)

CLEARING & GRUBBING - Sta 5+ to 30+
Scattered Trees

B.M. No. 1
X East End Conc. Irrig. CK.
88' Rt. Sta. 7+58
Elev. 5031.64

B.M. No. 2
Spike in 48" Willow Tree
69' Rt. Sta. 13+30
Elev. 5020.32

B.M. No. 3
X on S. Cor. Wall D. Drop
74' Rt. Sta. 16+83
Elev. 5011.04

B.M. No. 4
X on W. End S. Wall Div. Box
79' Rt. Sta. 21+24
Elev. 5002.89

B.M. No. 5
H.B.G.
90' Rt. Sta. 24+63
Elev. 4992.83

B.M. No. 6
D on S. Wall of Ditch Drop
85' Rt. Sta. 28+78
Elev. 4983.94

Ab. 1
Sta. 19.3
L.L. 38.3
-200.75%
2.6 (12)
C.B.R. 2.8

Ab. 2
Sta. 19.3
L.L. 38.3
-200.75%
2.6 (12)
C.B.R. 2.8

Ab. 3
Sta. 19.3
L.L. 38.3
-200.75%
2.6 (12)
C.B.R. 2.8

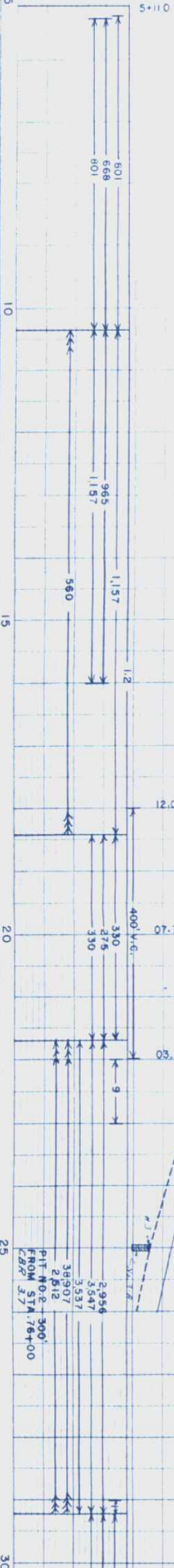
Ab. 4
Sta. 19.3
L.L. 38.3
-200.75%
2.6 (12)
C.B.R. 2.8

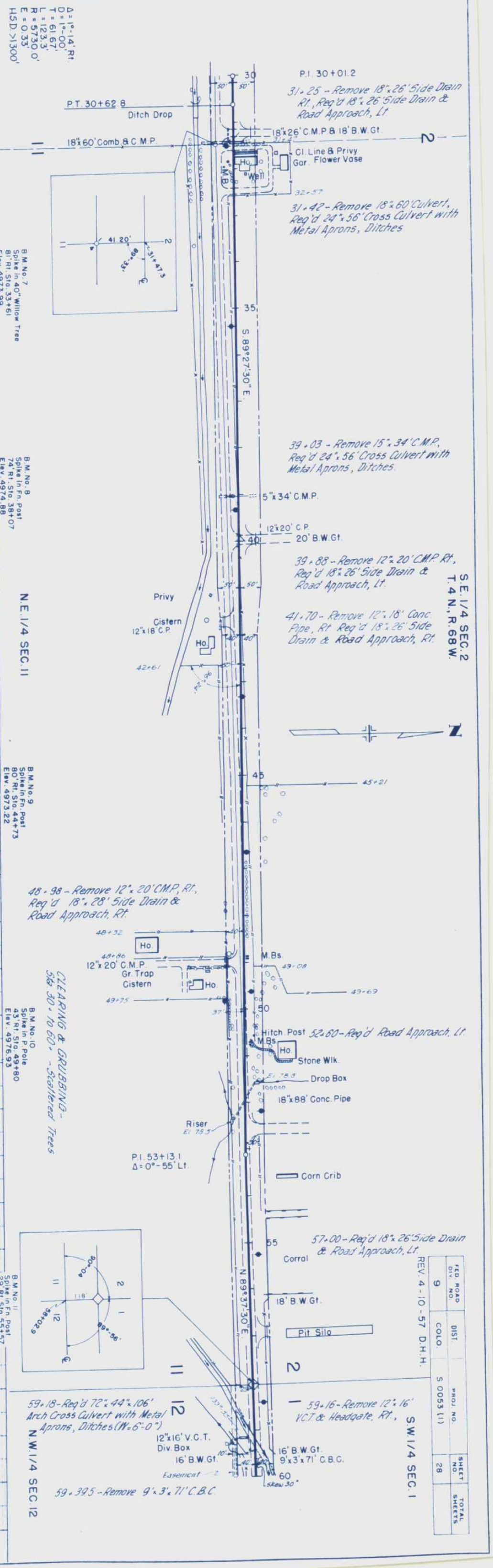
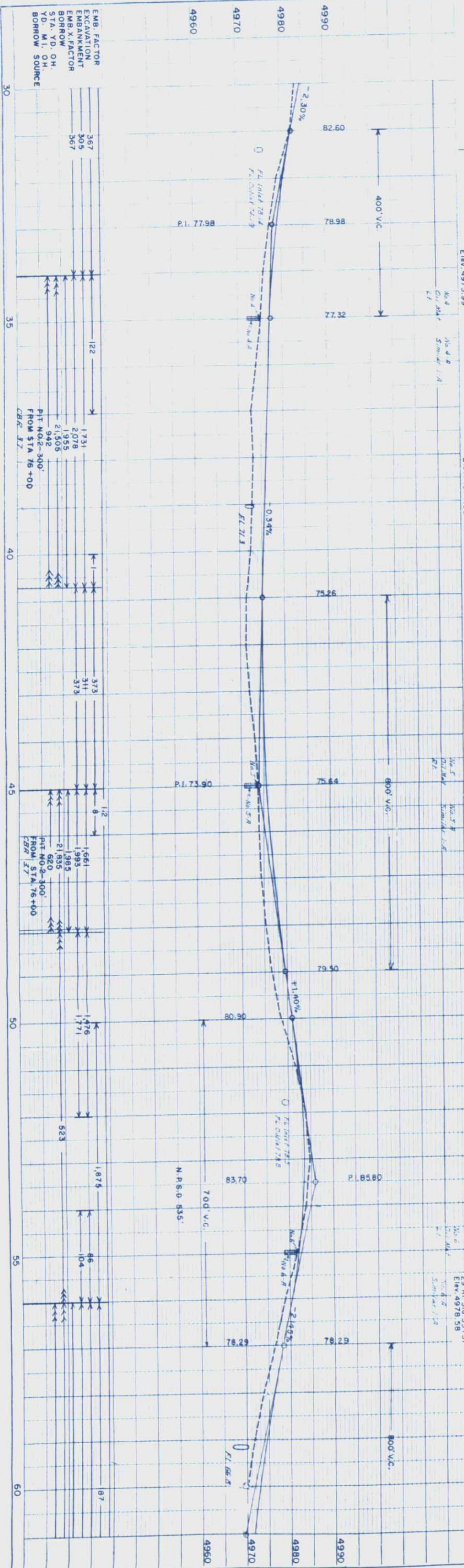
5040
5030
5020
5010
5000

5040
5030
5020
5010
5000

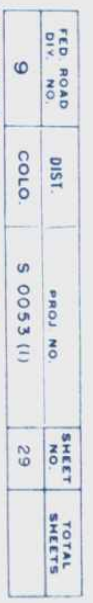
4990
EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X. FACTOR
BORROW
STA. Y.D. O.H.
Y.D. M.I. O.H.
BORROW SOURCE

4990
EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X. FACTOR
BORROW
STA. Y.D. O.H.
Y.D. M.I. O.H.
BORROW SOURCE





FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0053 (1)	28	



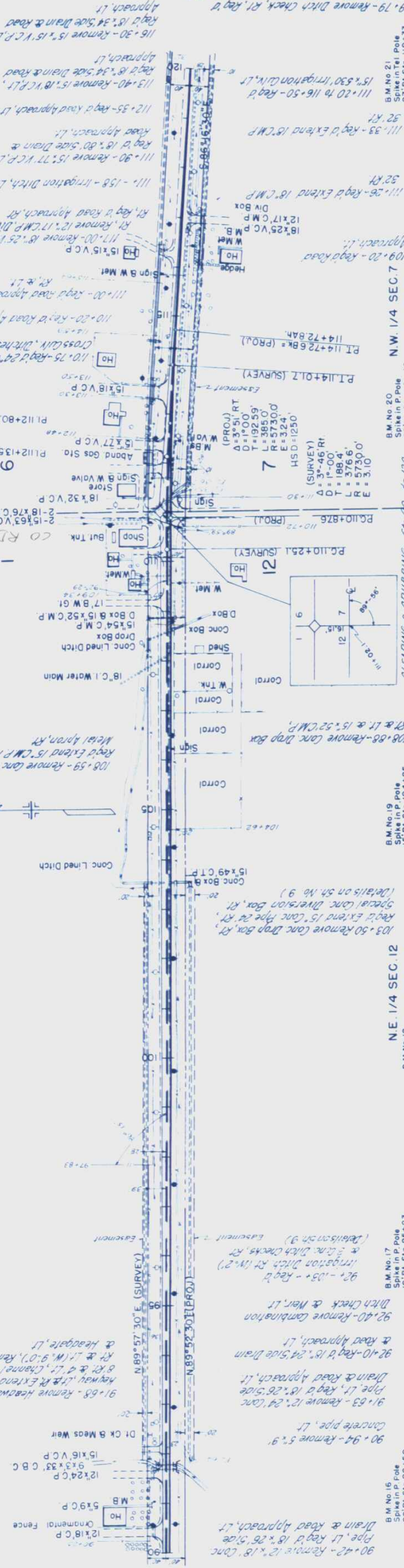
REV. 4-10-57 D.H.H. S.E. 1/4 SEC.

S.E. 1/4 SEC. 1
T. 4 N., R. 68 W.

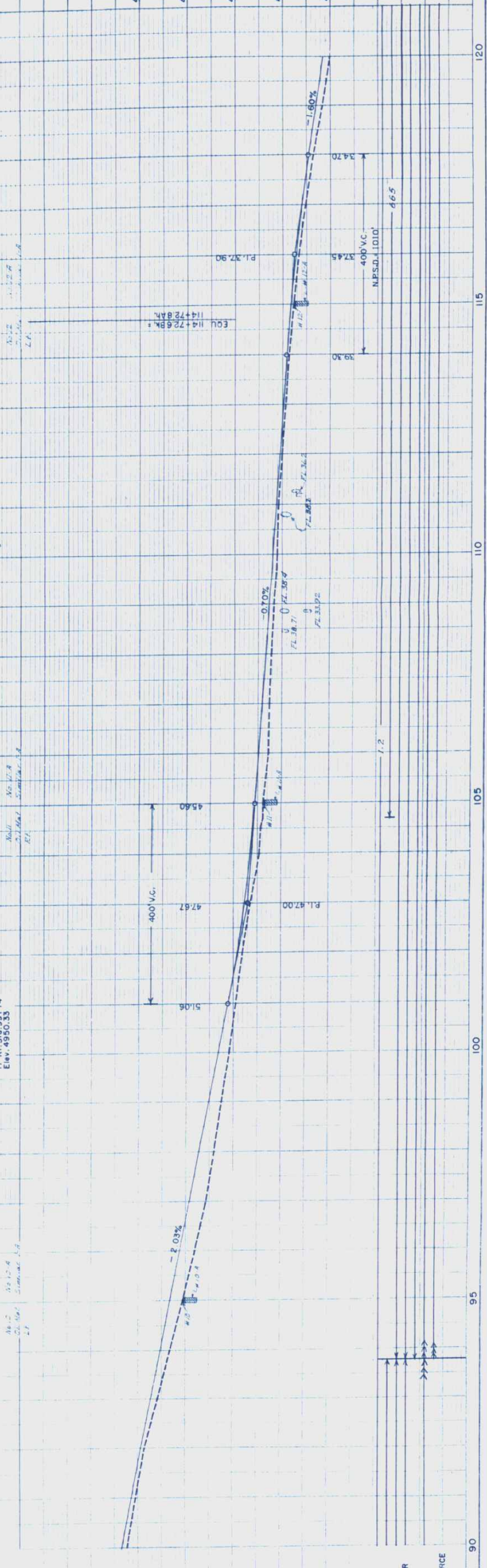
S.W. 1/4 SEC. 6
T. 4 N., R. 67 W.

FED. ROAD DIV. NO.	DIST.	COLO.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9			5 0053 (1)	30	

REV 4-10-57 D.H.H.



N.W. 1/4 SEC. 7
N.E. 1/4 SEC. 12



EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X. FACTOR
BORROW
STA. YL. C.H.
YD. M. O.H.
BORRO. SOURCE

S.E. 1/4 SEC. 6
T. 4 N., R. 67 W.

S.W. 1/4 SEC. 5

FED. ROAD DIST. PROJ. NO.	NO.	TOTAL SHEETS
9	COLO. S. 0053 (11)	32

REV 4-10-57 D.H.H.

151+80 - Remove 12" x 21" C.T.P., Lt.
Req'd 18" x 34" Side Drain & Road
Approach, Lt.

158+50 - Remove Comb. 22" V.C.P. &
24" C.M.P., Req'd 24" x 74" Cross
Culvert, Inlet Ditch.

24" x 28" C.M.P.
With 22" x 2.5' V.C.P. Rt.
& 22" x 7.5' V.C.P. Lt.

$\Delta = 3^{\circ}17'11''$
 $D = 1^{\circ}00'$
 $T = 164.2'$
 $L = 328.3'$
 $R = 5730.0'$
 $E = 2.35'$
 $HSD = 1248'$

15" x 56" C.T.P.
12" x 30" C.M.P.

161+47 - Req'd Road Approach, Rt. & Lt.

18" C.I. W. Main

Ho. Gar.
Sign Conc. Dr.

Div. Box & Sign
12" C.T.P.

FT RILEY ST.
Gas Line

169+50 - Req'd Road Approach, Lt.

18" C.T.P.

W. Met. & Shut Off

W. Met.

W. Shut Off

Light Poles

LIPPITT AVE.

175

W. Shut Off

Ho. P. Pin

6" V.C.T. Sewer

Sign P. Pins

Store

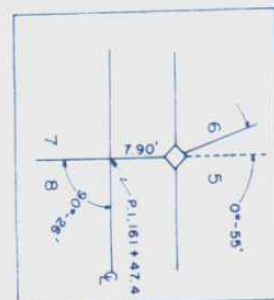
Sign

Gas Line

So. IDAHO AVE.

18" C.I. Water Main

161+22 - Remove 15" x 56" C.T.P.,
Req'd 24" x 52" Cross Culvert with
Metal Aprons, Inlet Ditch.



173+20 - Remove portions of Present
Curb, Req'd 24" x 54" Cross Culvert
With No 12 Conc. Inlet, Lt. (H. 5'-0")
Metal Apron, Rt.
173+70 - Req'd Road Approach,
Lt.

178+50 - Req'd 24" x 54" Cross Culvert
With Metal Apron Rt. & No 13 Conc.
Inlet, Lt. (H. 4'-6")

179+50 - Req'd Road Approach, Lt.

N.E. 1/4 SEC. 7
B.M. No. 29
Spike in Tel. Pole
22' Rt. Sta. 153+34
Elev. 4867.07

B.M. No. 30
Spike in Tel. Pole
19' Rt. Sta. 159+00
Elev. 4864.86

B.M. No. 31
Spike in Tel. Pole
27' Rt. Sta. 164+74
Elev. 4876.03

B.M. No. 32
Spike in Tel. Pole
24' Rt. Sta. 168+68
Elev. 4886.78

N.W. 1/4 SEC. 8

B.M. No. 33
Spike in Tel. Pole
27' Rt. Sta. 173+90
Elev. 4883.75

B.M. No. 34
Spike in Light Pole
27' Rt. Sta. 179+32
Elev. 4889.53

PROFILE
NOTE: PROFILE
NO. 19-30

NO. 19-30
H.W. WATER
H.W. WATER
H.W. WATER

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X FACTOR
BORROW
STA. Y.D. OH.
Y.D. M.I. OH.
BORROW SOURCE



P.I. 71.30

71.97

70.76

71.30

69.14

70.24

74.60

74.60

83.60

87.71

88.04

86.48

86.07

86.40

87.80

88.64

89.75

4870

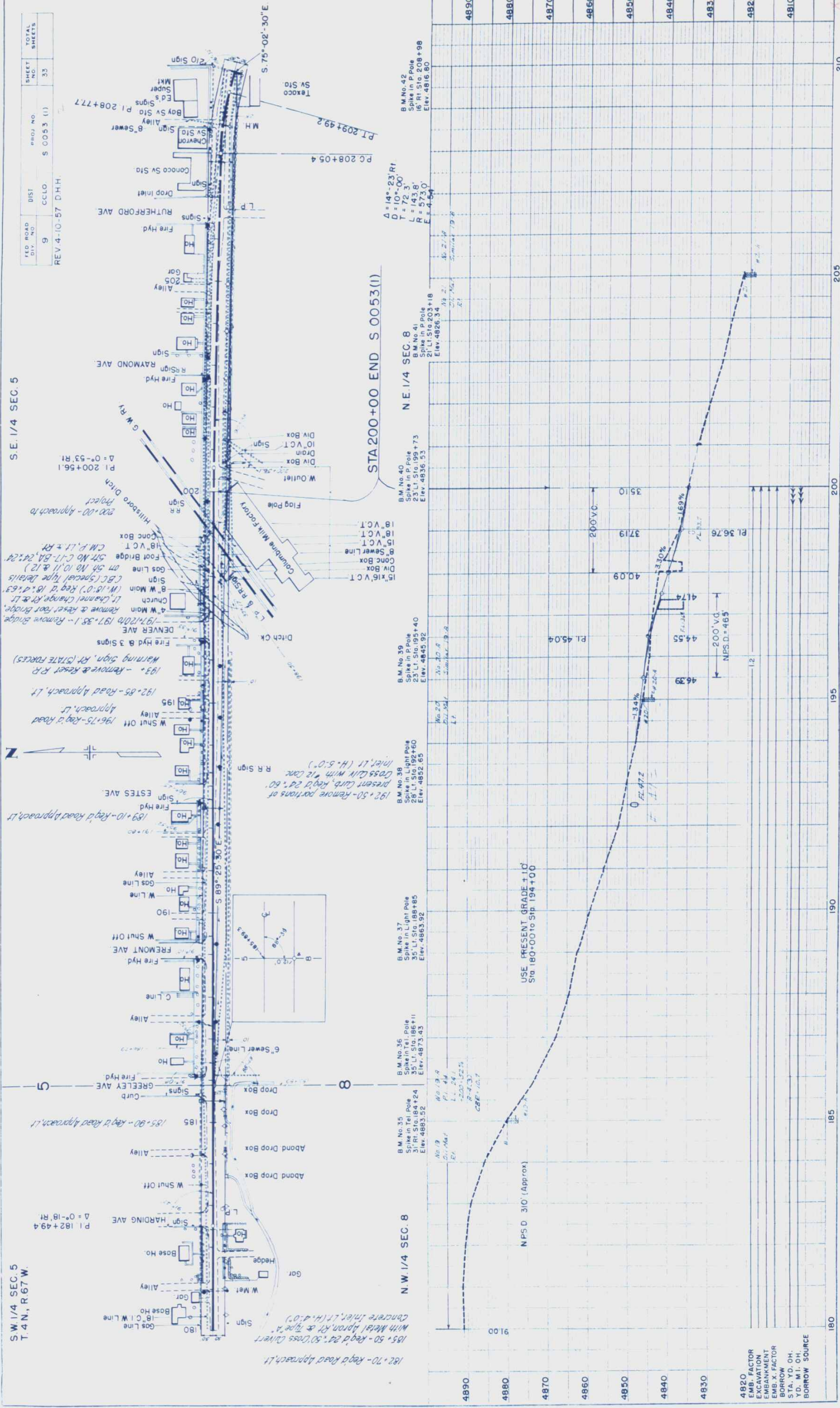
4880

4890

S.E. 1/4 SEC. 5

FED ROAD DIV NO	DIST	PROJ NO.	SHEET NO.	TOTAL SHEETS
9	CCLO.	S 0053 (1)	33	

REV. 4-10-57 DHH:



4820
EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. X. FACTOR
BORROW
STA. YD. OH.
YD. MI. OH.
BORROW SOURCE