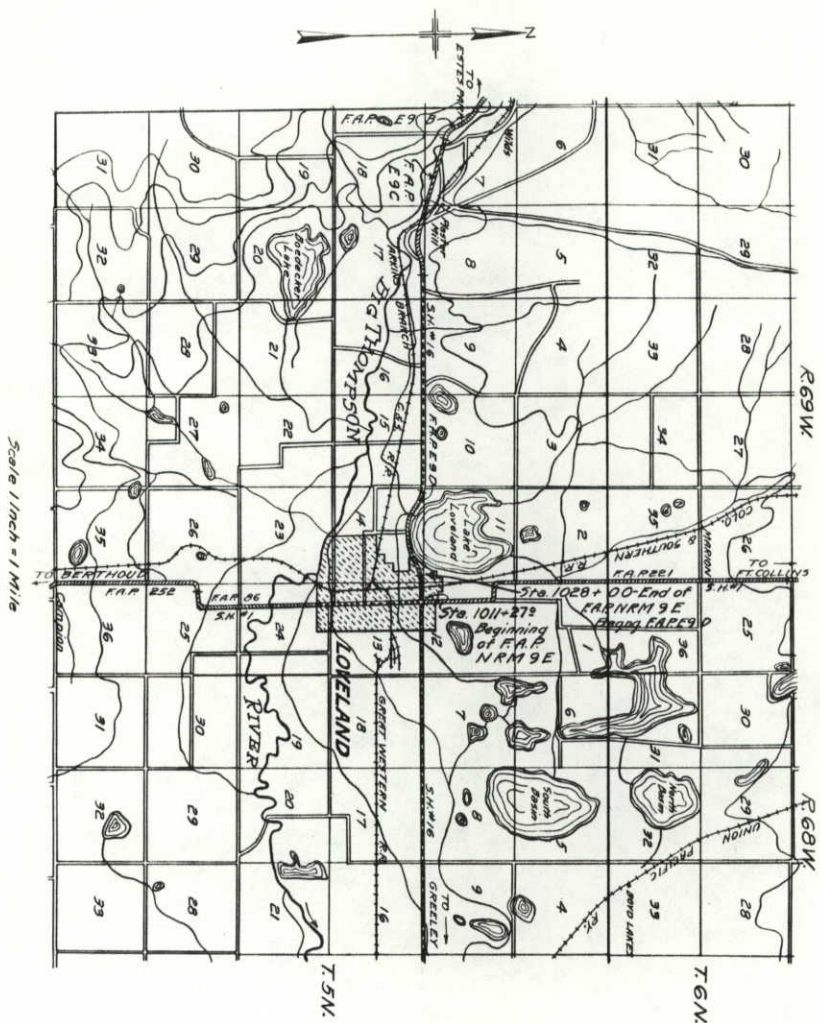


INDEX OF SHEETS

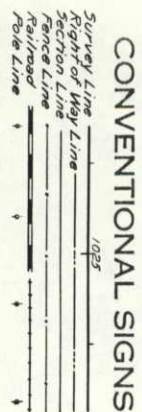
Sheet No 1 - Title Sheet
 " 2 - Notice Section and Summary
 " 3 to 5 - Details for R.R. Overpass
 " 6 - Details for Road and Utility of East Abutment
 " 7 - Wire Cable Guardrail and Details of East Abutment
 " 8 - Standard Supervision Method
 " 9 - Standard Wire Fences
 " 10 - Plan & Profile Sheet
 " 11 to 14 - Cross Sections

COLORADO
 STATE HIGHWAY DEPARTMENT
 PLAN AND PROFILE OF PROPOSED
 FEDERAL AID PROJECT NRM 9 E
 STATE HIGHWAY NO. 16
 LARIMER COUNTY

SCALES
 ON PLAN, 1 IN. = 100 FT.
 ON PROFILE 1 IN. = 10 FT. HORIZONTAL
 1 IN. = 10 FT. VERTICAL
 GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
 GROSS LENGTH OF PROJECT: 1673.0 FT. = 0.316 MI.
 NET LENGTH OF PROJECT: 1593.0 FT. = 0.301 MI.



Scale 1/16 inch = 1 mile



PROJECT NO.	STATE	ROAD NO.	SHEET NO.	TOTAL SHEETS
1023	CO.	16	1	1

RECOMMENDED FOR APPROVAL 10/14/33

Richard A. ...
 ASSISTING ENGINEER

APPROVED
Edward Hale
 STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL
 STATE ENGINEER, BUREAU OF PUBLIC ROADS

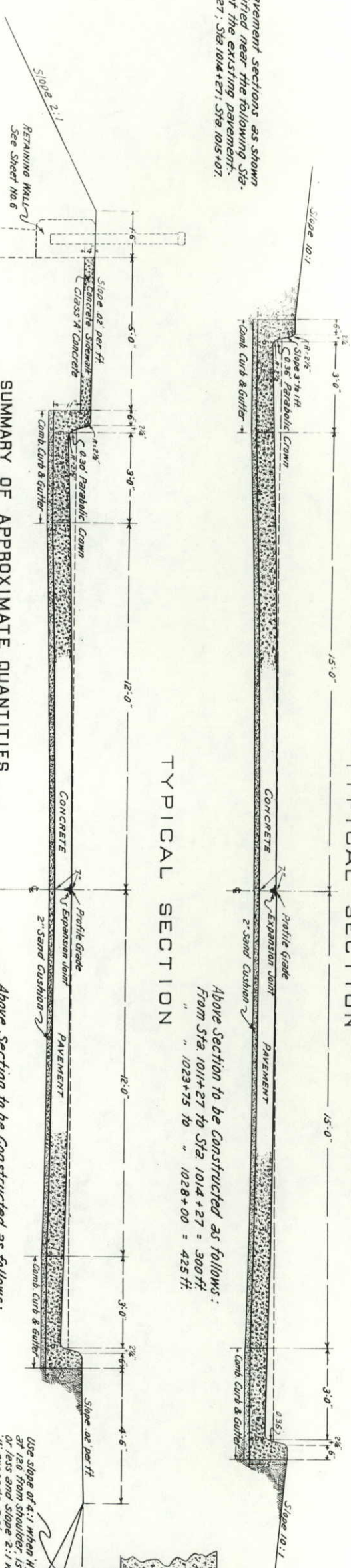
RECOMMENDED FOR APPROVAL
 STATE ENGINEER, BUREAU OF PUBLIC ROADS

APPROVED
 STATE ENGINEER, BUREAU OF PUBLIC ROADS

APPROVED
 DIRECTOR, BUREAU OF PUBLIC ROADS

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

Note: The pavement sections as shown are to be modified near the following Stations to meet the existing pavement.
 STA 1011+27; STA 1014+27; STA 1015+07.



TYPICAL SECTION

Above Section to be constructed as follows:
 From Sta 1011+27 to Sta 1014+27 = 300 ft.
 " " 1023+75 to " 1028+00 = 425 ft.

GENERAL NOTES

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted January 1, 1934.
 All quantities on preliminary plans are to be considered approximate only.

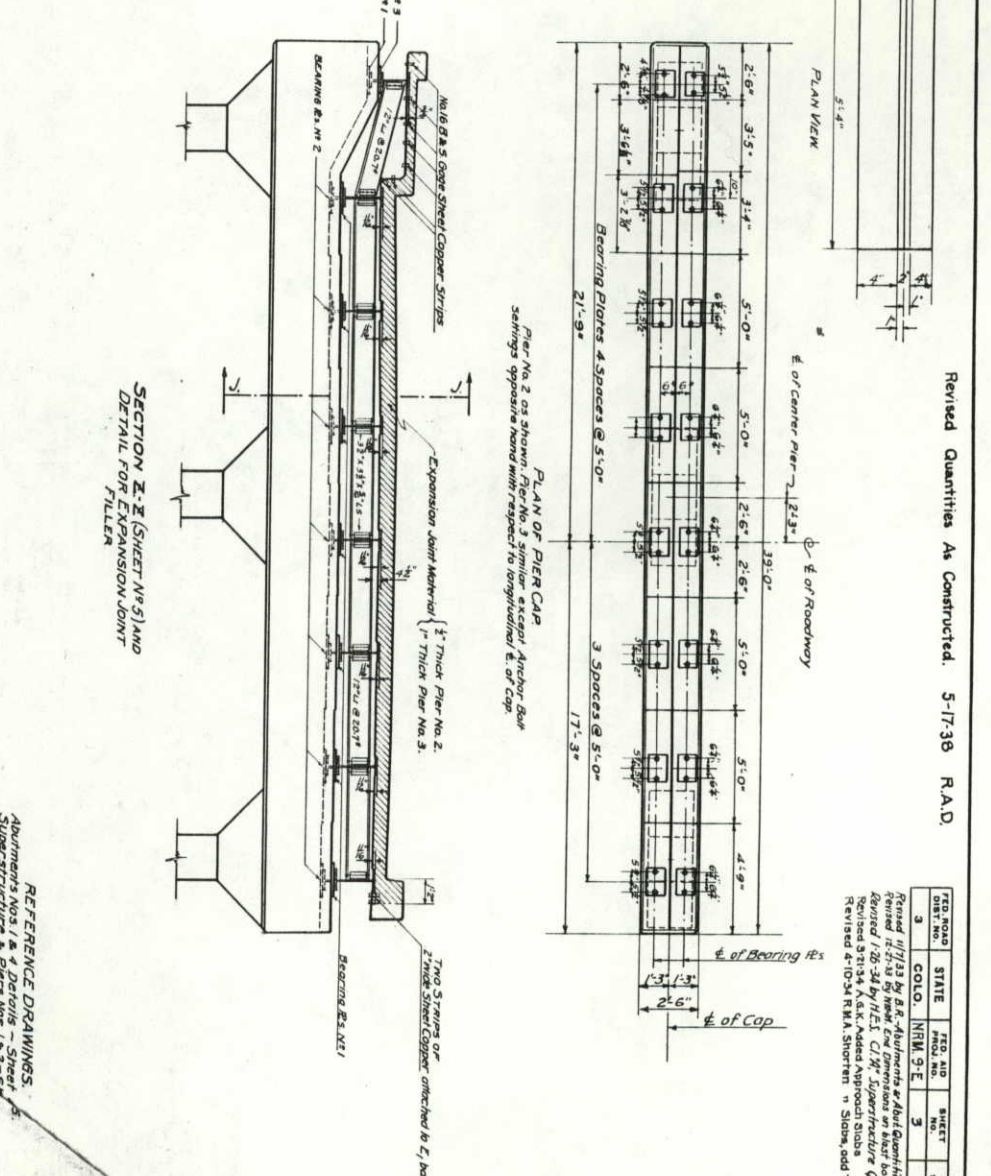
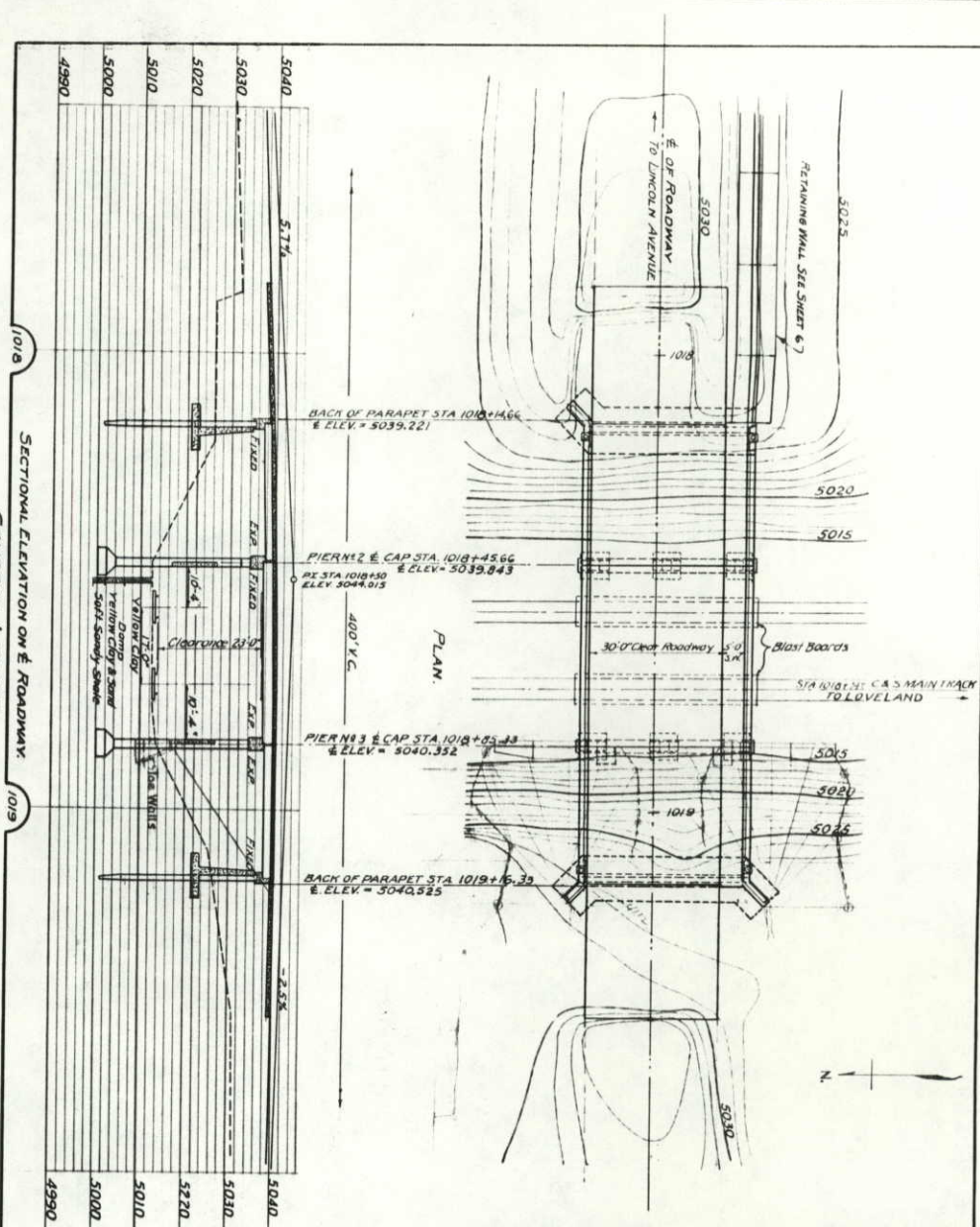
All Roadway excavation required to construct this Project is to be obtained as indicated on the plans. Quantities involved beyond the limits of the Typical Section either noted on Profile as Borrow or on Structure Tabulation as Embankment, are to be classified and paid for as Unclassified Excavation. These quantities are to be stated as part of the original excavation at locations indicated on the plans. Slope stakes beyond the limits of the Typical Section as shown are subject to change by the Engineer to fit Embankment requirements actually met in construction.

All poles encroaching on construction are to be moved by owner. Excavation required in the construction of "Combination Curb & Gutter" and "Concrete Gutter" is included in the Cross Section quantities and is to be classified and paid for as Unclassified Excavation.
 Except as limited by the "Special Provisions", power equipment may be used on this Project.

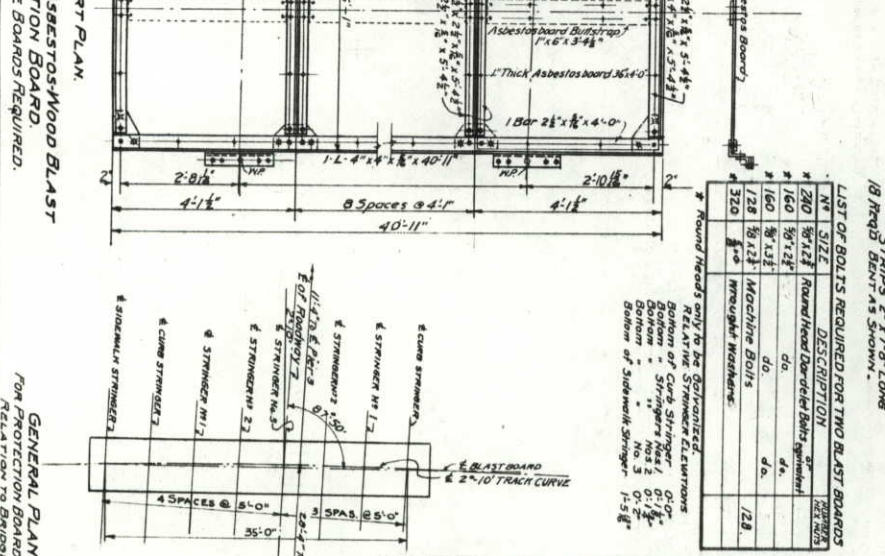
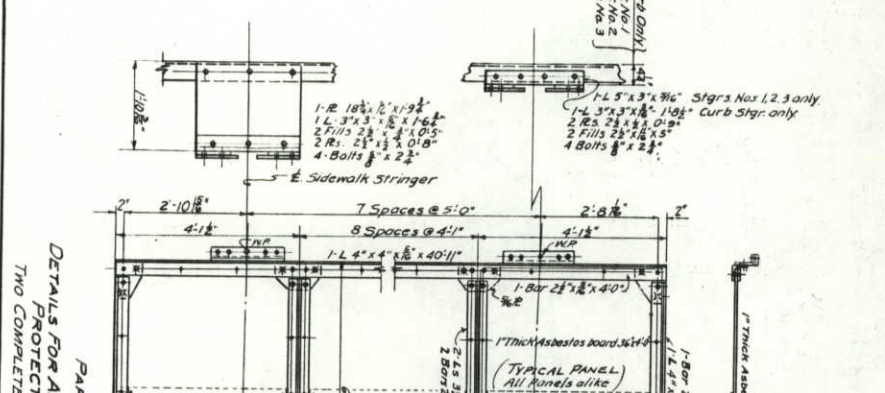
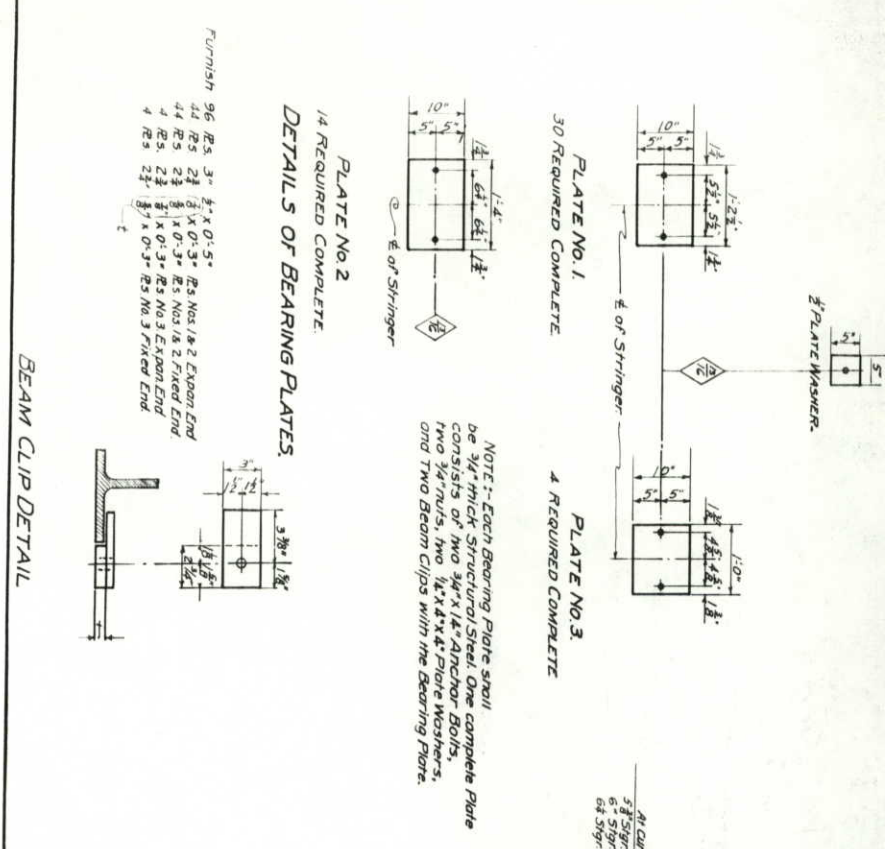
SUMMARY OF APPROXIMATE QUANTITIES

ITEM	DESCRIPTION	UNIT	ROADWAY	R.R. OVERPASS	TOTALS
10a	Clearing & grubbing entire Project	Lin. Ft.	750		750
11a	Remove Curbing	Imp. Yds.			
11c	Removing 5' Mail Boxes	Lin. Ft.	11,000		11,000
11d	Removing sidewalk, Sta 1016+ & 1020+	Lin. Ft.	700		700
12a	Unclassified Excavation (Struct)	Cu. Yds.	480		480
12c	Dry Rock Excavation	Cu. Yds.			
14a	Wet Rock	"			
14c	"	"			
14d	"	"			
14g	Station Yard Overhaul	Sq. Yd.	97,000		97,000
18b	Concrete Pavement	Sq. Yd.	4,370		4,370
37a	Concrete Pavement	Sq. Yd.	425		425
37b	Concrete Pavement	Sq. Yd.	300		300
42a	Remove Curbing	Imp. Yds.	300		300
42b	Remove Curbing	Imp. Yds.	198		198
42c	Remove Curbing	Imp. Yds.	198		198
42d	Remove Curbing	Imp. Yds.	198		198
42e	Remove Curbing	Imp. Yds.	198		198
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200	Remove Curbing	Imp. Yds.	198		198
TOTALS			738		738

LIST OF STRUCTURES



Revised Quantities As Constructed. 5-17-38 R.A.D.



ITEM NO.	DESCRIPTION	UNIT	3 SPANS SUPERSTRUCTURE	ABUTMENTS	PIERS	TWO APPROACH SLABS	TOTALS
14A	DRY ROCK STRUCTURAL EXCAVATION	CUB YD	222.1				468.0
14B	WEIR ROCK	"					9.0
14C	WEIR COMMON	"					9.0
14D	WEIR COMMON	"					9.0
14E	WEIR COMMON	"					9.0
14F	WEIR COMMON	"					9.0
14G	WEIR COMMON	"					9.0
14H	WEIR COMMON	"					9.0
14I	WEIR COMMON	"					9.0
14J	WEIR COMMON	"					9.0
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15A	WEIR COMMON	"					9.0
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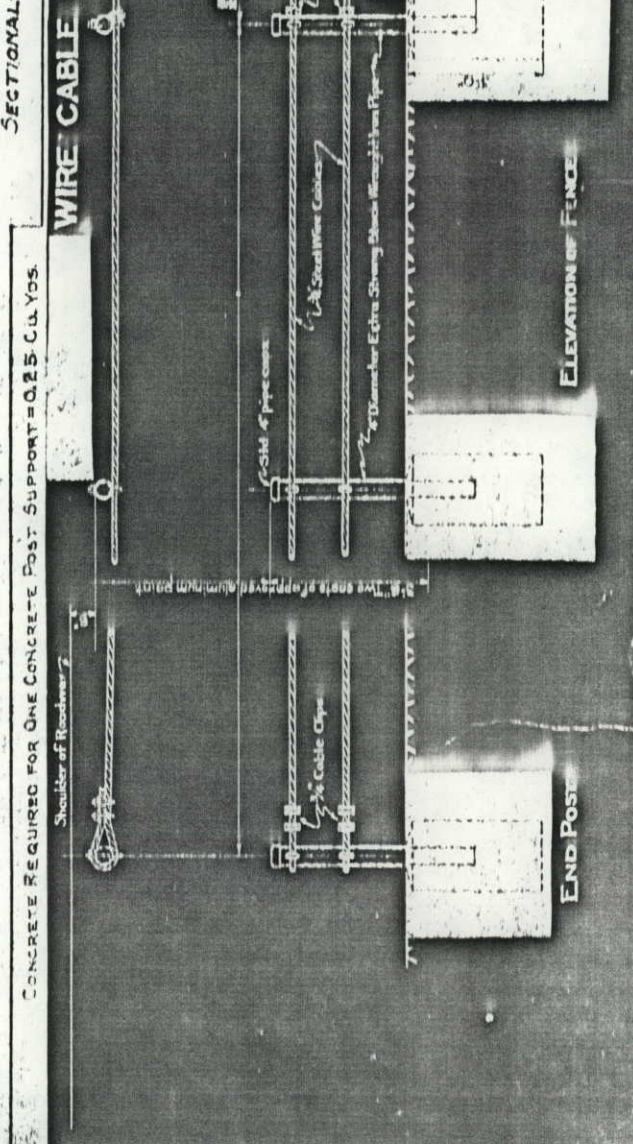
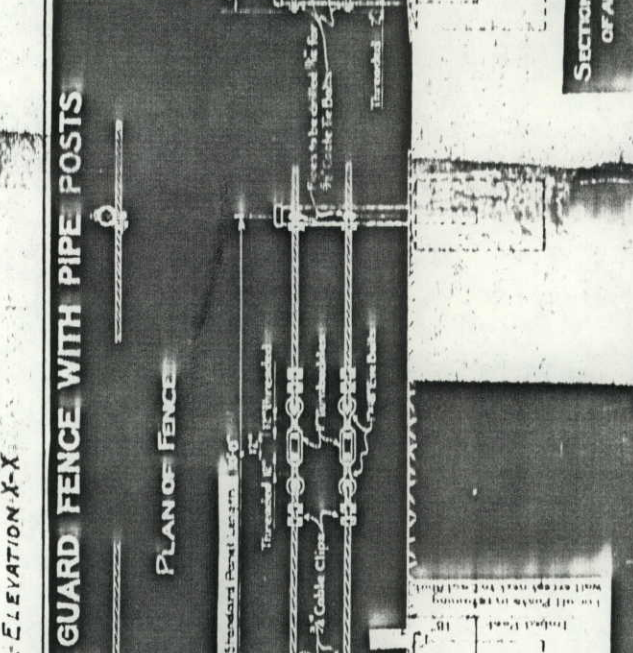
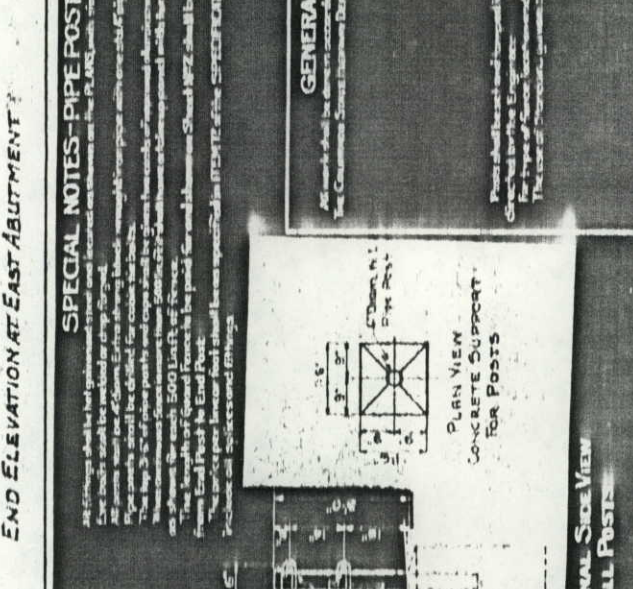
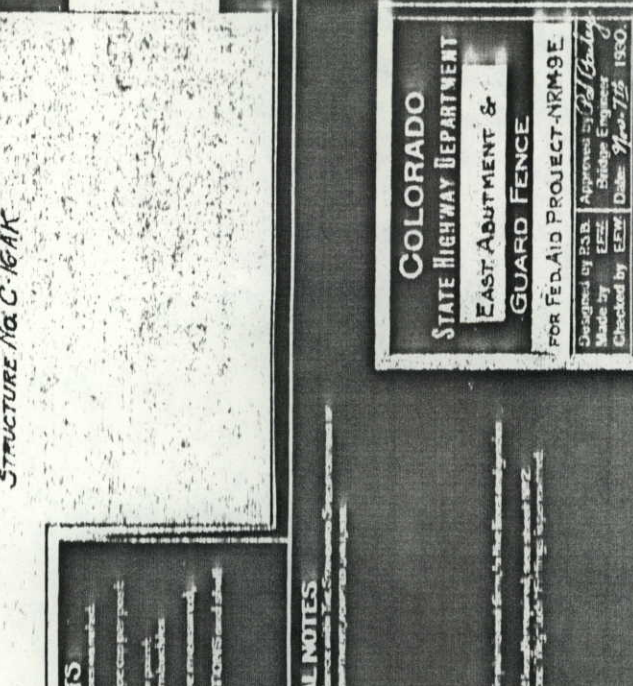
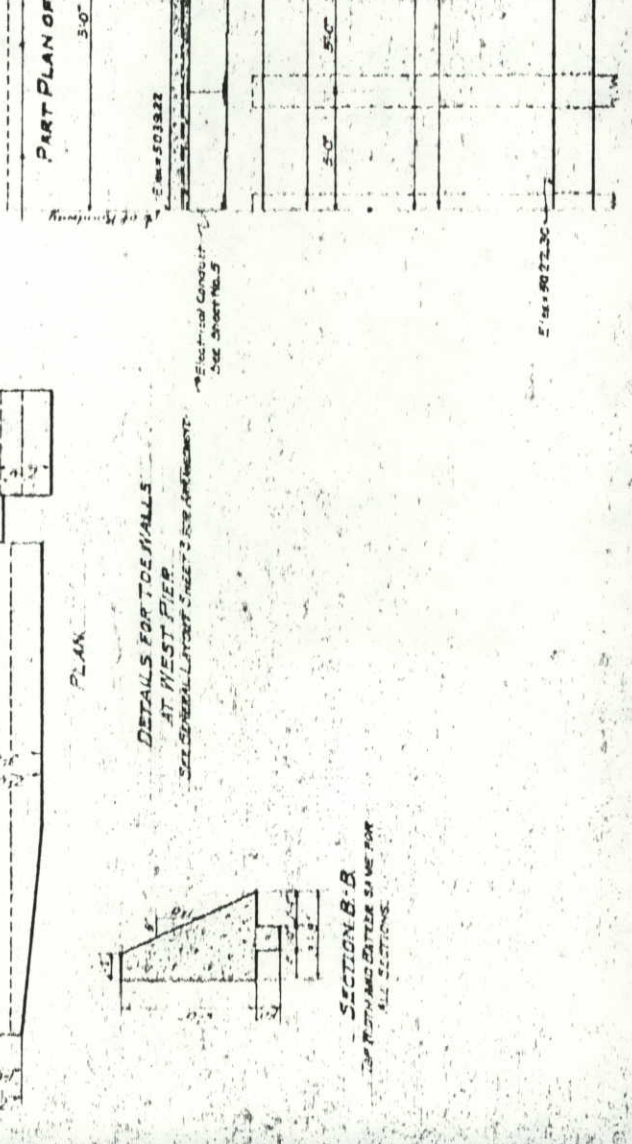
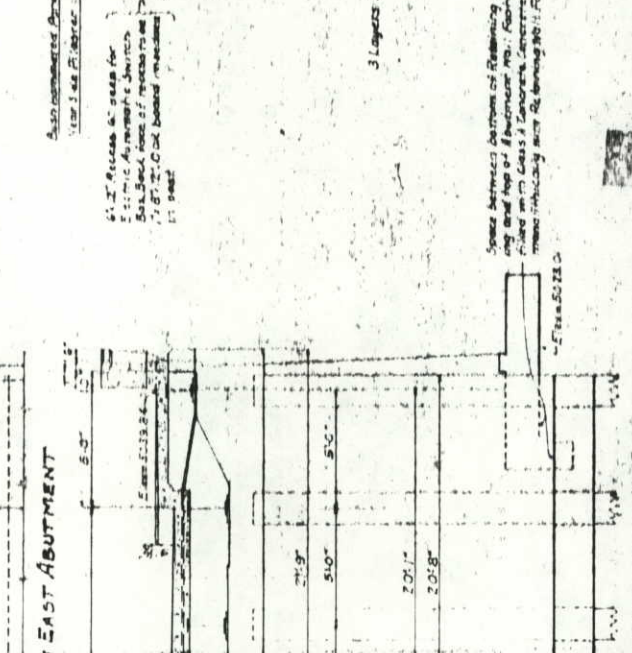
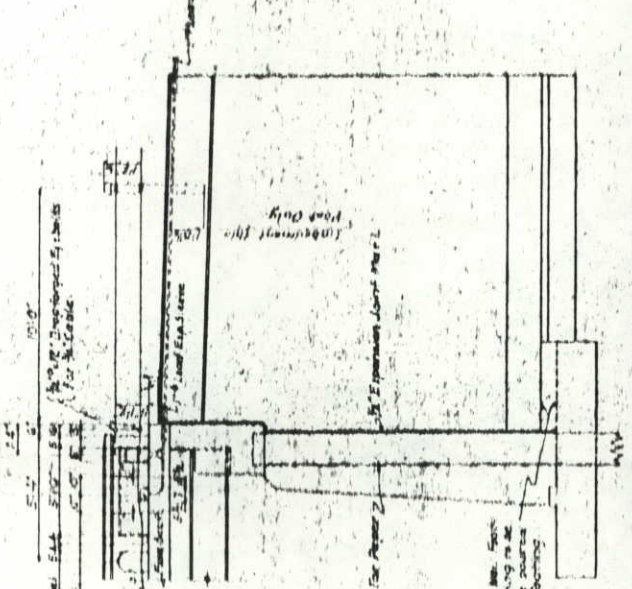
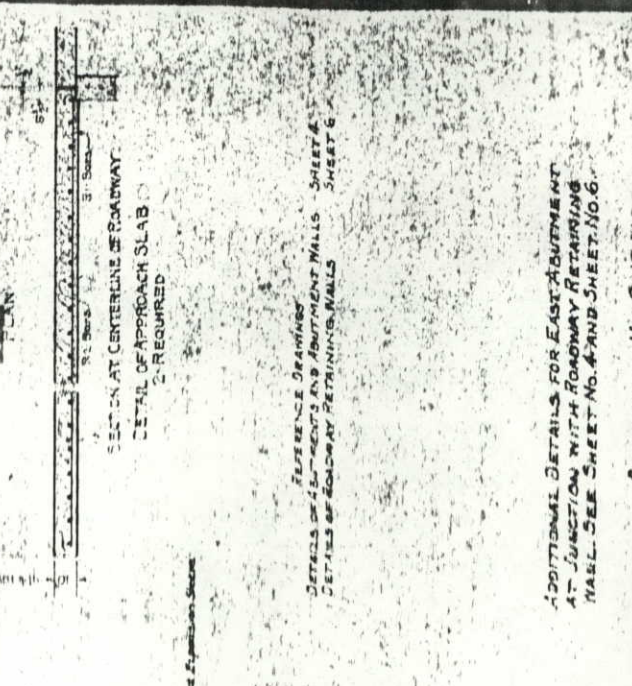
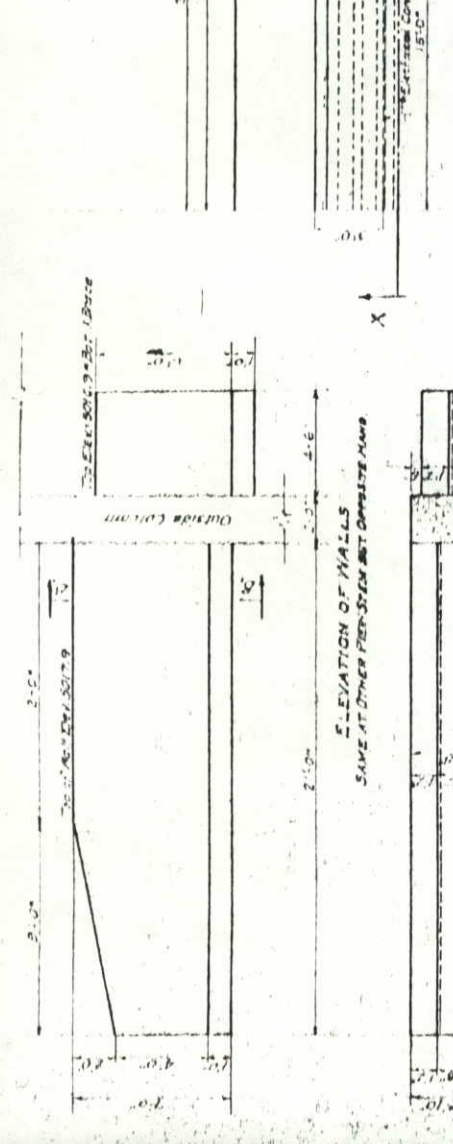
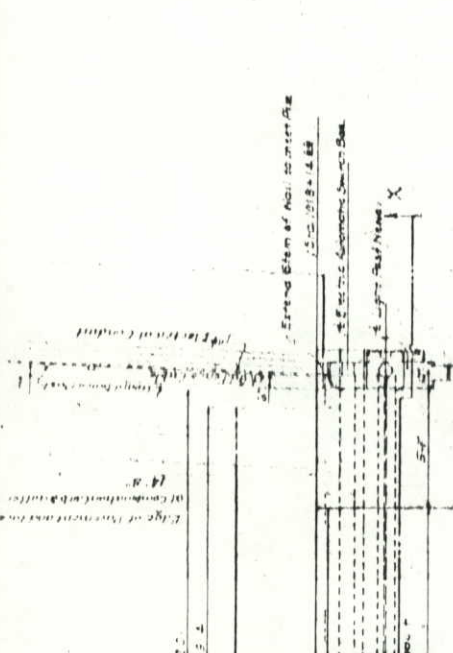
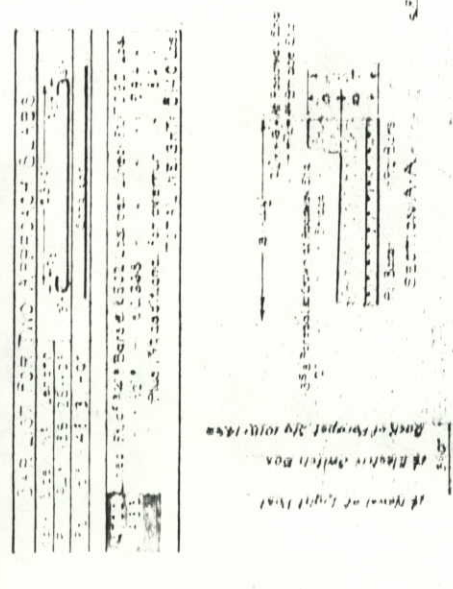
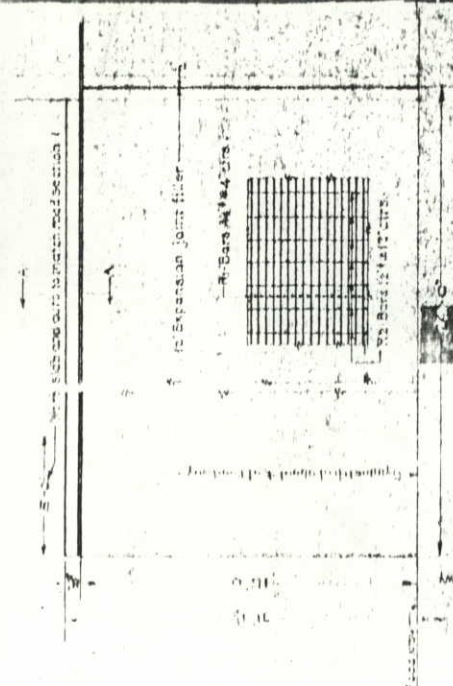
LOADING DATA. H. O. AM. 1938, CLASS A. (H-15) COLORADO STATE HIGHWAY DEPARTMENT. APPROVED FOR CONSTRUCTION BY THE STATE ENGINEER. DATE: 5/17/38. R.A.D.

STATE HIGHWAY DEPARTMENT COLORADO. SUMMARY OF QUANTITIES FOR ICBAM CONCRETE VIADUCT. DESIGNED BY RMA. APPROVED BY RMA. CHECKED BY ALC. DATE: 5/17/38. R.A.D.

STANDARD - M-20-E

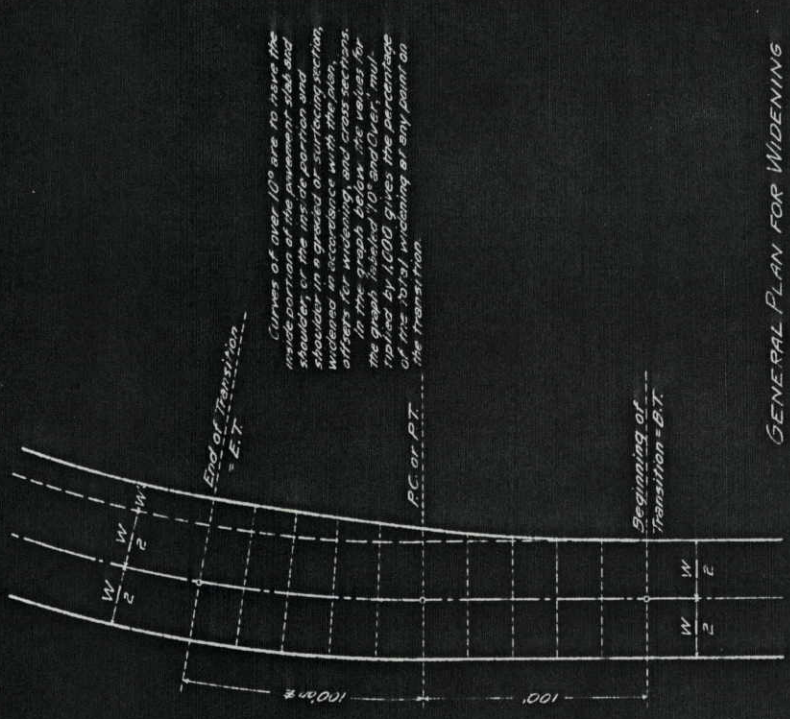
STATE: COLO. COUNTY: DENVER DISTRICT: 1 SHEET NO. 1 OF 1

SPECIAL PERIOD BY 2013-01-01 FOR FED AID PROJECT - 6 M-20-E DATE: 11-1-33



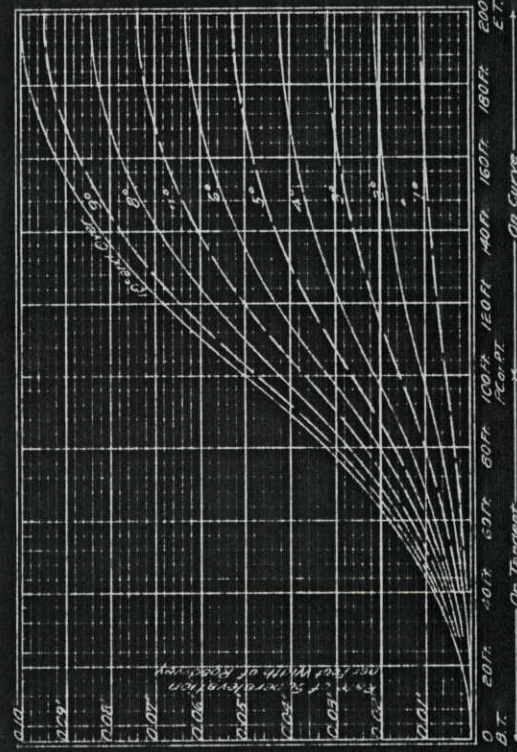
COLORADO
STATE HIGHWAY DEPARTMENT
EAST ABUTMENT & GUARD FENCE
FOR FEDERAL PROJECT-NRM9E
Designed by B.A.D. Approved by B.A.D.
Made by E.E.E. Checked by E.E.E.
Date: 11-1-33

M-1-A



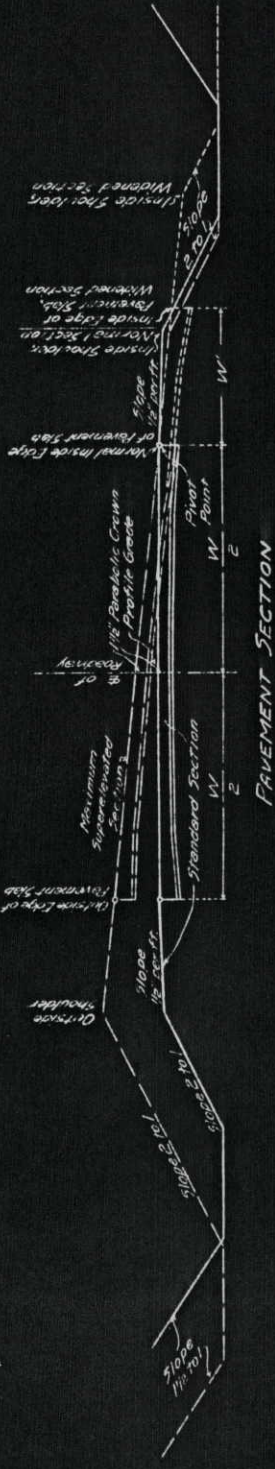
GENERAL PLAN FOR WIDENING

Curves of over 100 are to have the inside portion of the pavement slab and shoulder, or the inside portion and shoulder in a graded or surfacing section, widened in accordance with the plan. Plans for widening and cross sections of the road should be prepared for the full width of the road, and the percentage of the total widening at any point on the transition.



GRAPH OF SUPERELEVATION TRANSITION FACTORS

The rate of super-elevation per foot width of roadway to be applied at the outside edge of the pavement slab, under the outside shoulder of the roadway, is shown in the table. The full super-elevation per foot width of roadway rate for a given degree of curvature is 0.0125 ft x Degree of Curvature. The maximum super-elevation of 0.10 ft per foot width, applying to curves of 100 and over, is not to be exceeded. The above graph has been prepared from the rates of super-elevation shown in the table.



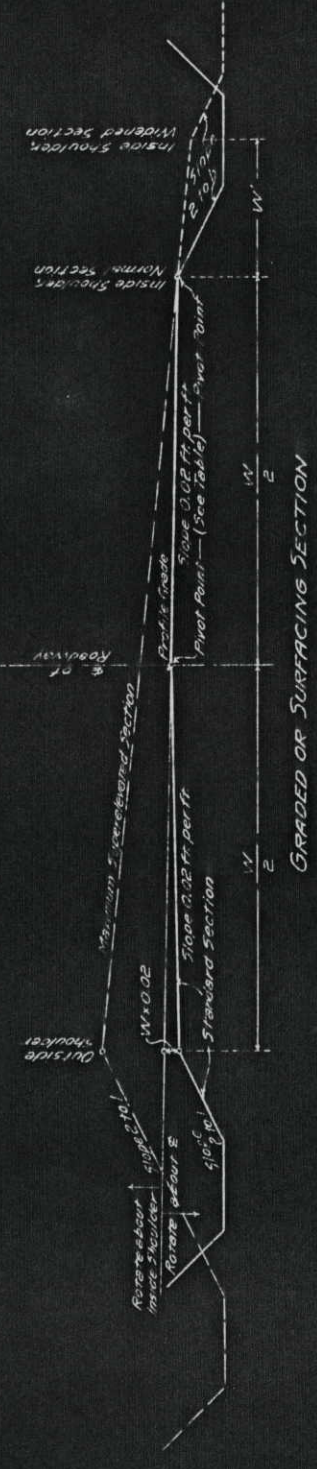
FAVEMENT SECTION

SUPERELEVATION AND WIDENING NOTES FOR PAVEMENT SECTION
 The slope of the shoulders shall conform to the rate per foot width of roadway required except that the inside shoulder shall remain the standard slope of 0.04 ft per foot width until the super-elevation rate exceeds this standard slope. The slope of the ditch along a super-elevated section is to be modified from the standard where a cross ditch is required to provide drainage. Details of plans for widening and the Graph of Super-elevation Factors, the General Plan for Widening and the Graph of Super-elevation Factors to the subgrade for future pavement, to be considered to conform to the super-elevation and widening requirements for the pavement section.

Curves on projects using the pavement section are to be super-elevated and widened as indicated in the accompanying tables. The normal inside edge of the pavement slab, to remain at the standard slope of 0.04 ft per foot width, and the slope of the ditch along a super-elevated section is to be modified from the standard where a cross ditch is required to provide drainage. When the degree of curvature exceeds 100, the inside portion of the pavement slab is to be widened from the normal inside edge as per the table below. Curves of 100 and over are not to be widened. The 1/2" ballast crown is to be used for curves of 10 and under. The widened section is to have a flat crown.

SUPERELEVATION FACTORS AND OFFSETS FOR WIDENING FOR PAVEMENT SECTION

Distance from B.T. Factor	20 FT	40 FT	60 FT	80 FT	100 FT	120 FT	140 FT	160 FT	180 FT	200 FT	On Curve
Rate of Super-elevation (in Feet) per Foot Width of Roadway	0.004	0.007	0.010	0.013	0.016	0.019	0.022	0.025	0.028	0.031	0.034
Offsets for Widening W' (in Feet)	0.06	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54	0.60	0.66
Over 10° - Under 15°	0.06	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54	0.60	0.66
Over 15°	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20	1.32



GRADED OR SURFACING SECTION

SUPERELEVATION AND WIDENING NOTES FOR GRADED OR SURFACING SECTIONS
 The center-line pivot point is to be used as long as the super-elevation does not exceed 0.01 feet per foot width of roadway. The normal inside shoulder pivot point is to be used for a super-elevation rate in excess of 0.01 feet per foot width of roadway. The normal inside shoulder is to be widened from the standard where a cross ditch is required to provide drainage. Details of plans for super-elevation and widening are shown on the General Plan for Widening and the Graph of Super-elevation Factors.

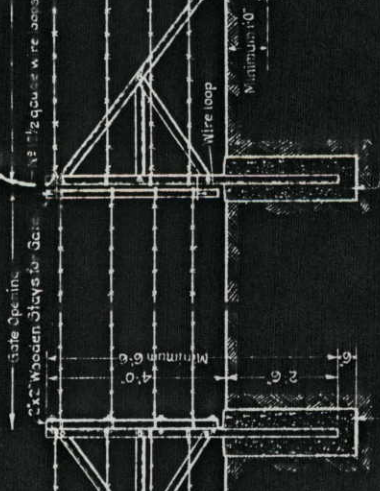
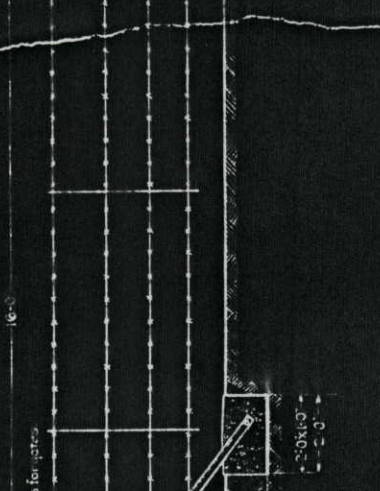
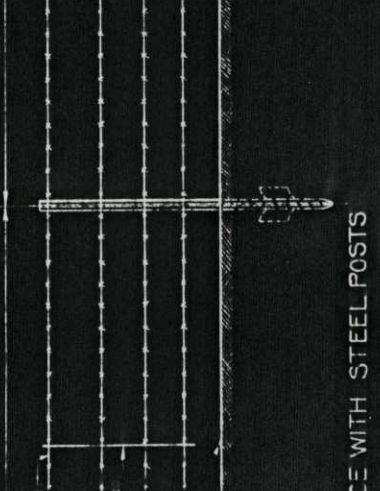
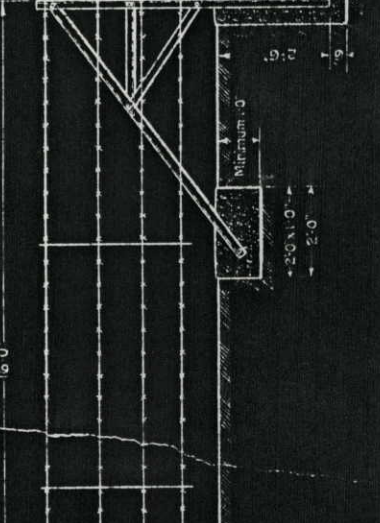
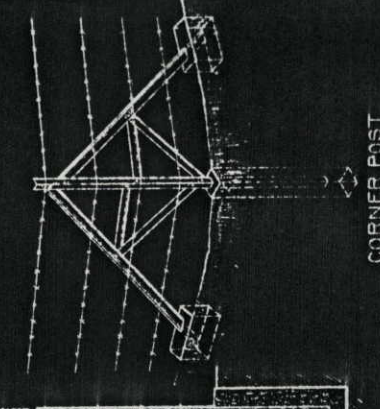
Curves on projects using the graded or surfacing section are to be super-elevated and widened as indicated in the accompanying tables. The normal inside shoulder and ditch are to remain as shown in the typical section shown on sheet 1-1. The outside shoulder is to be the height of the ditch along a super-elevated section is to be modified from the standard where a cross ditch is required to provide drainage.

SUPERELEVATION FACTORS AND OFFSETS FOR WIDENING FOR GRADED OR SURFACING SECTIONS

Distance from B.T. Factor	20 FT	40 FT	60 FT	80 FT	100 FT	120 FT	140 FT	160 FT	180 FT	200 FT	On Curve
Rate of Super-elevation (in Feet) per Foot Width of Roadway	0.004	0.007	0.010	0.013	0.016	0.019	0.022	0.025	0.028	0.031	0.034
Offsets for Widening W' (in Feet)	0.06	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54	0.60	0.66
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Over 15°	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20	1.32

STANDARD M-27A

FED. ROAD DIST. NO. 3 STATE COLO. PROJECT NO. 9
 Revised, 10-23-34, and Change Order No. 1, 10-23-34



Horizontal Wires: Two Strands of No. 12 3/4 Gauge Wire
 Cross Wires: Single Strand of No. 14 3/4 Gauge Wire
 Gate: 14'-0" Gate Opening
 Minimum 4'-0"

Horizontal Wires: Two Strands of No. 12 3/4 Gauge Wire
 Cross Wires: Single Strand of No. 14 3/4 Gauge Wire
 Gate: 14'-0" Gate Opening
 Minimum 4'-0"

Gate Complete with hinges and latch to weigh not less than 70 lbs.
 Frame to be 2x4 minimum dia. galvanized pipe or an equivalent.
 2x4 Single Strand wire mesh filler or an equivalent type.
 Width of mesh approximately 40".
 Horizontal wires No. 10 gauge.
 Galvanized metal latch and hinges.

Gate Complete with hinges and latch to weigh not less than 70 lbs.
 Frame to be 2x4 minimum dia. galvanized pipe or an equivalent.
 2x4 Single Strand wire mesh filler or an equivalent type.
 Width of mesh approximately 40".
 Horizontal wires No. 10 gauge.
 Galvanized metal latch and hinges.

Work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, Adopted January 1, 1930.
 Galvanized wire shall be of Standard weight, not lighter than No. 12 gauge galvanized wire.
 The mesh shall be galvanized and not lighter than shown and noted on this plan.

Galvanized metal latches and hinges.
 Gate complete with hinges and latch to weigh not less than 70 lbs.
 Frame to be 2x4 minimum dia. galvanized pipe or an equivalent.
 2x4 Single Strand wire mesh filler or an equivalent type.
 Width of mesh approximately 40".
 Horizontal wires No. 10 gauge.
 Galvanized metal latch and hinges.

Work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, Adopted January 1, 1930.
 Galvanized wire shall be of Standard weight, not lighter than No. 12 gauge galvanized wire.
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Work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, Adopted January 1, 1930.
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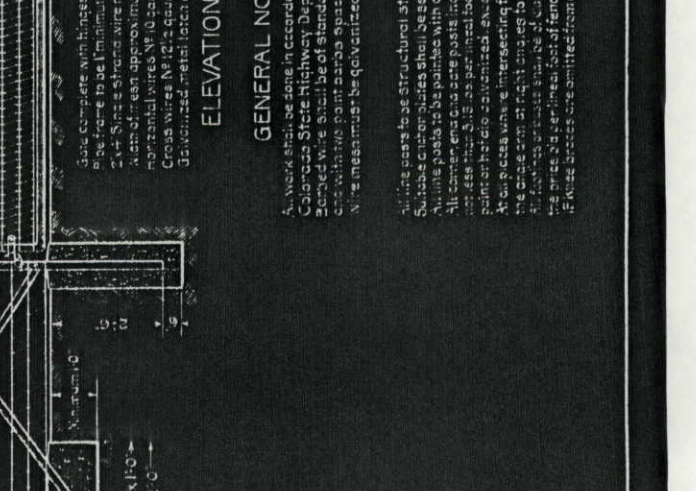
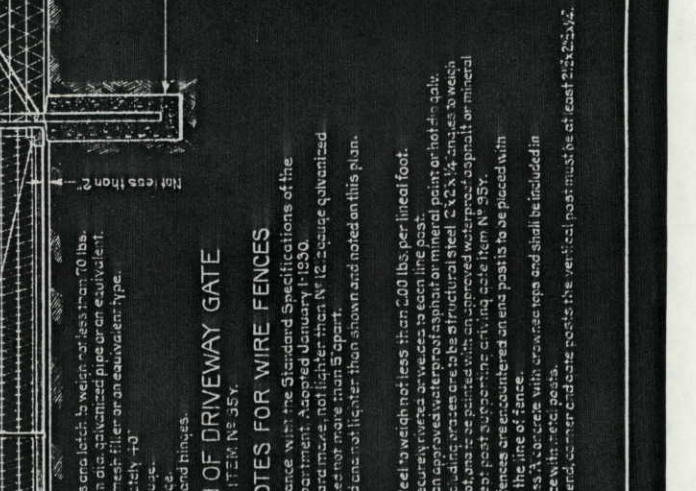
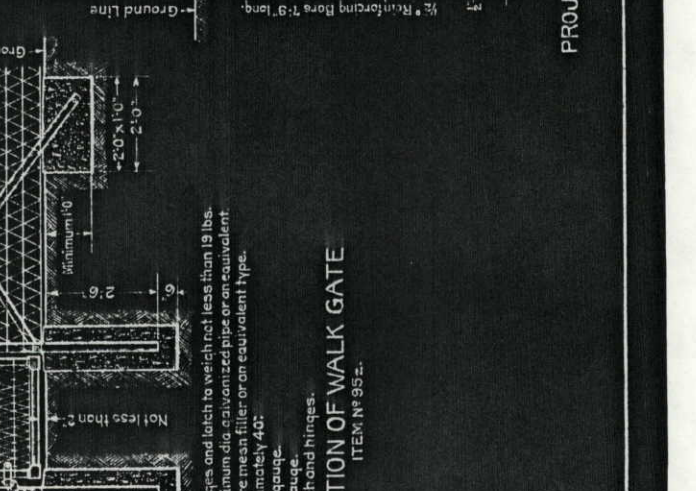
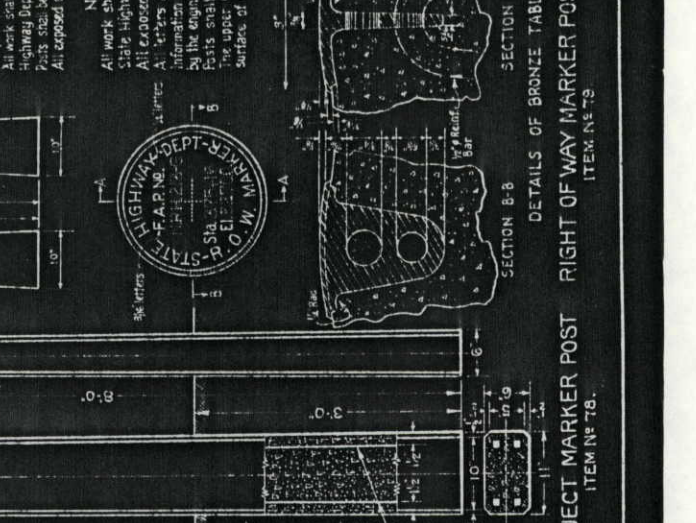
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 Galvanized wire shall be of Standard weight, not lighter than No. 12 gauge galvanized wire.
 The mesh shall be galvanized and not lighter than shown and noted on this plan.

COLORADO STATE HIGHWAY DEPARTMENT STANDARD WIRE FENCES WITH STEEL POSTS AND MARKER POSTS

Designed by A. G. A. Approved by C. J. G. Bridge Engineer
 Made by A. G. A. Checked by A. G. A. Date: Dec. 6, 1932

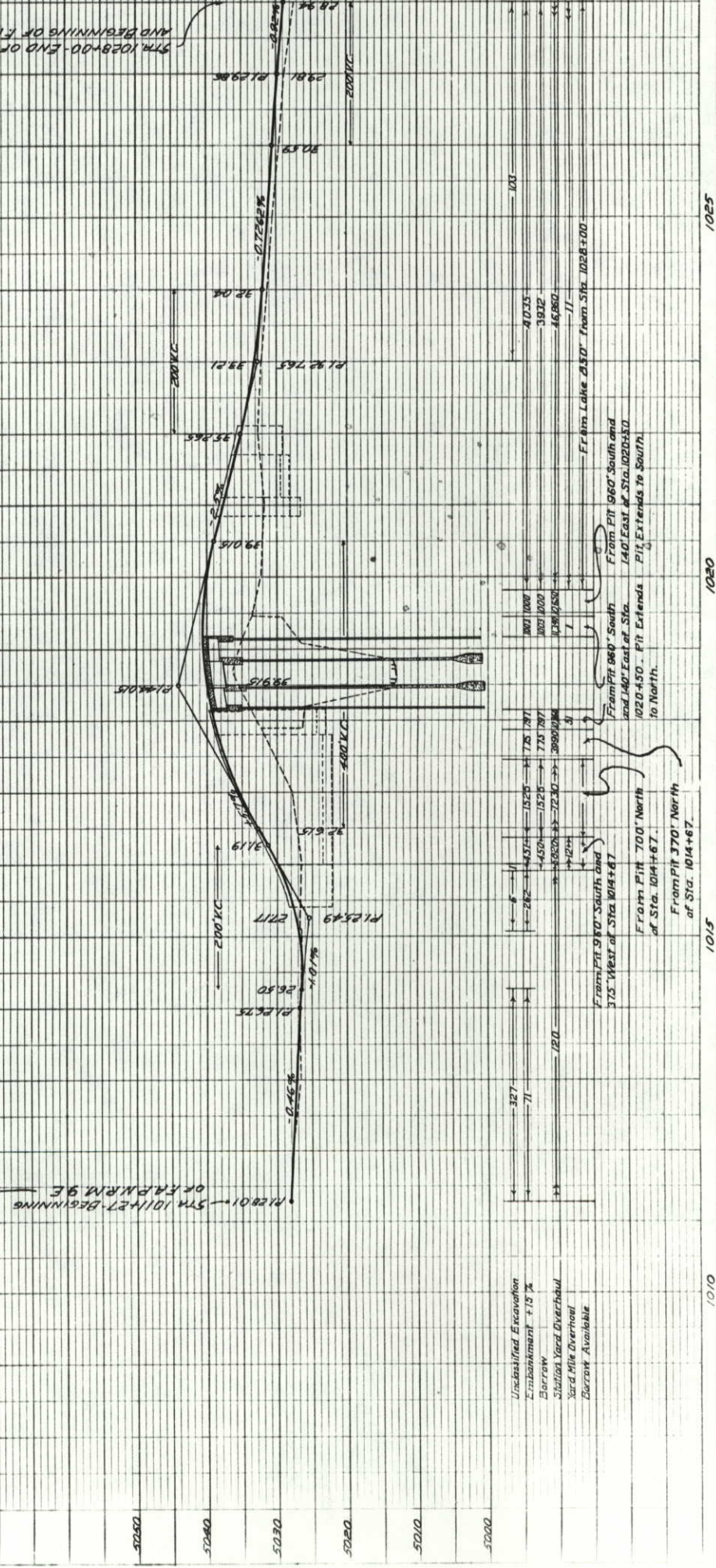
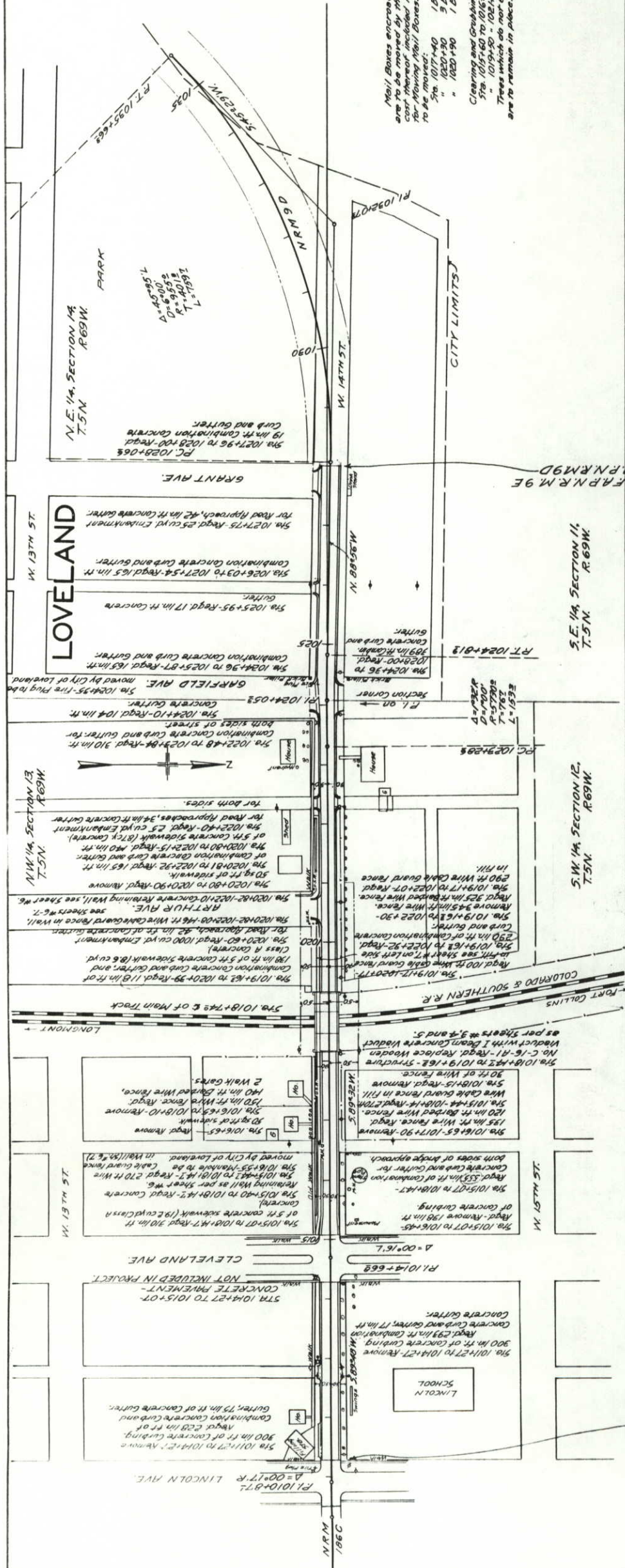


PROJECT NO.	1000	DATE	3-27-34	TOTAL SHEETS	10
STATE	IND.	DESIGNER	W.R.M.P.E.	NO.	10
CITY	INDIANAPOLIS	CONTRACTOR	W.R.M.P.E.		

REV. CONN. CORP. & GUYER, 3-27-34, H.O.M.

Mail Boxes encroaching on construction are to be moved by the Contractor and the following Mail Boxes are to be moved:
 Sta. 1017+40 1 Box
 Sta. 1020+90 3 Boxes
 Sta. 1020+90 1 Box
 Sta. 1020+90 1 Box

Clearing and Grubbing is required as follows:
 Sta. 1019+50 to 1021+00 - " "
 Sta. 1019+50 to 1021+00 - " "
 Trees which do not encroach upon construction are to remain in place.



Unexcavated Excavation
 Embankment + 15%
 Barrow
 Station Yard Overhaul
 Yard With Overhaul
 Barrow Available