FED. ROAD DIV. NO.	STATE	U.S.P.W. PROJECT NO.	SHEET NO.	TOTAL SHEETS
8	COLO.	N.R.M. 260-A	1	

Rev 7-15-32 A.S.
Rev 1-7-34 X.T.S.

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
U.S.P.W. PROJECT N.R.M. 260-A
STATE HIGHWAY NO. 6
MONTROSE COUNTY

INDEX OF SHEETS

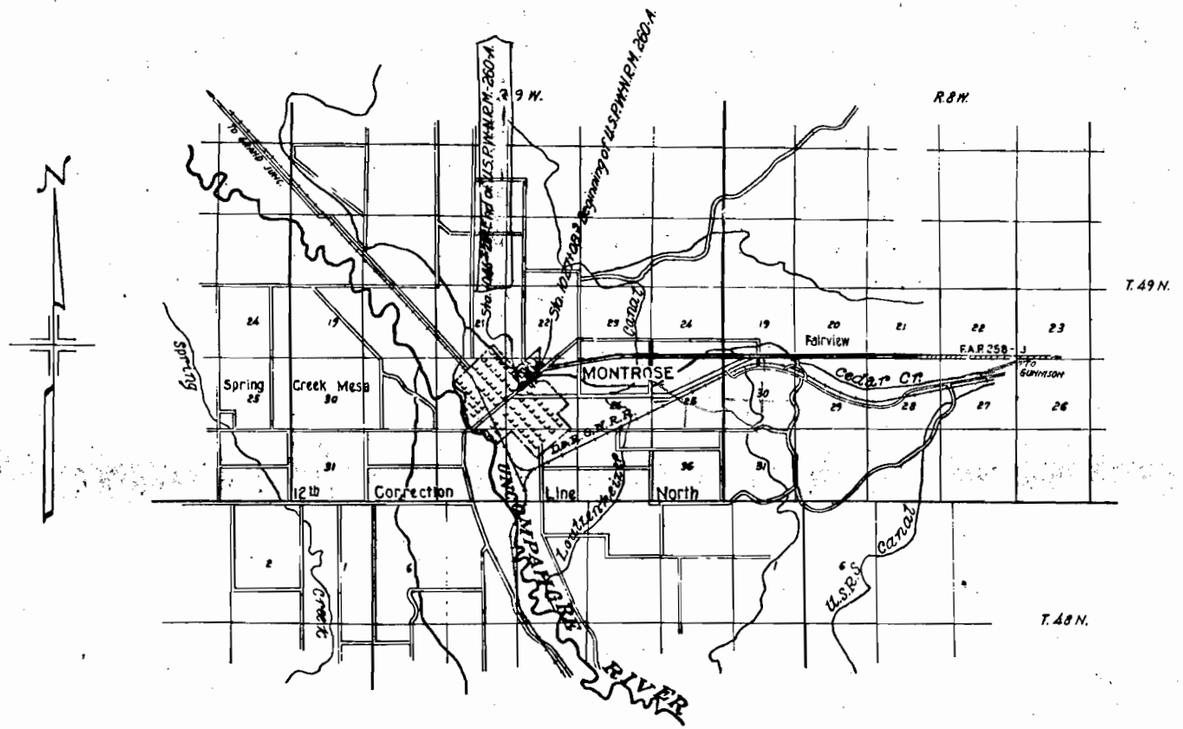
CONVENTIONAL SIGNS

- ℄ Plan
- R.O.W. Line
- Section Line
- ¼ Section Line
- Fence

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 19200 FT. = 0.363 MI.
NET LENGTH OF PROJECT 18540 FT. = 0.351 MI.



Scale ~ 1 in. - 1 mile

RECOMMENDED FOR APPROVAL 12/28/33
ASSISTANT ENGINEER

APPROVED
Chas D Vail
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL
DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL
CHIEF ENG. BUREAU PUBLIC ROADS

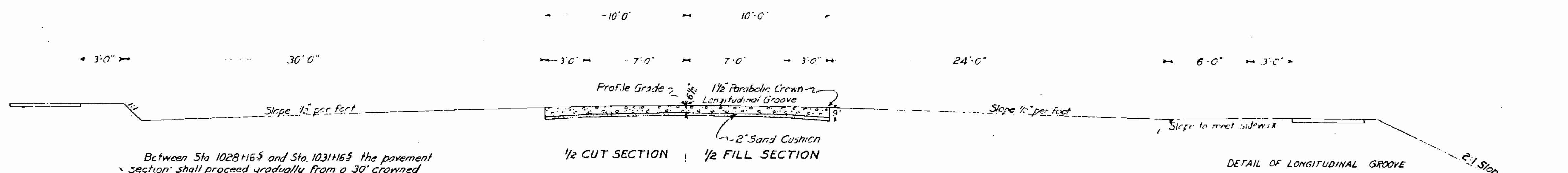
APPROVED
DIRECTOR BUREAU PUBLIC ROADS

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

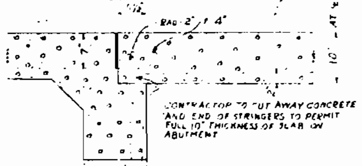
FED. ROAD DIST. NO.	STATE	U.S.P.W. PROJECT	SHEET NO.	TOTAL SHEETS
1	COLO.	N.R.M. 360-A	2	

Rev. 1-8-34 T.S.
Rev. 2-15-34 F.W.D.

TYPICAL CROSS SECTION



Between Sta. 1028+16⁵ and Sta. 1031+16⁵ the pavement section shall proceed gradually from a 30' crowned width to a 20' crowned width.
Between Sta. 1042+38⁹ and Sta. 1045+98⁹ the pavement section shall proceed gradually from a 20' crowned width to a 60' crowned width.



REINFORCING BARS FOR 2 APPROACH SLABS

40-½" Bars @ 29'8" = 1187 LIN FT @ 0.85 LBS PER LIN FT = 1009 LBS
180-¾" " @ 20'4" = 3660 " " @ 1.502 " " " = 5497 "
1% FOR OVERRUN = 64 "
ITEM # 47 REINFORCING STEEL = 6570 LBS.

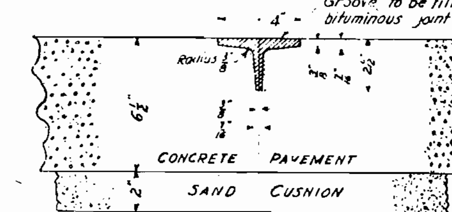
ITEM # 46a CLASS "A" CONCRETE 35 CU. YDS.

SECTION A-A

EXPANSION JOINT MATERIAL ½"x10" 60 LIN. FT.

GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted January 1, 1930.
All quantities shown on the preliminary are to be considered as approximate only.
Except as limited by the special provisions, power equipment may be used on this project.



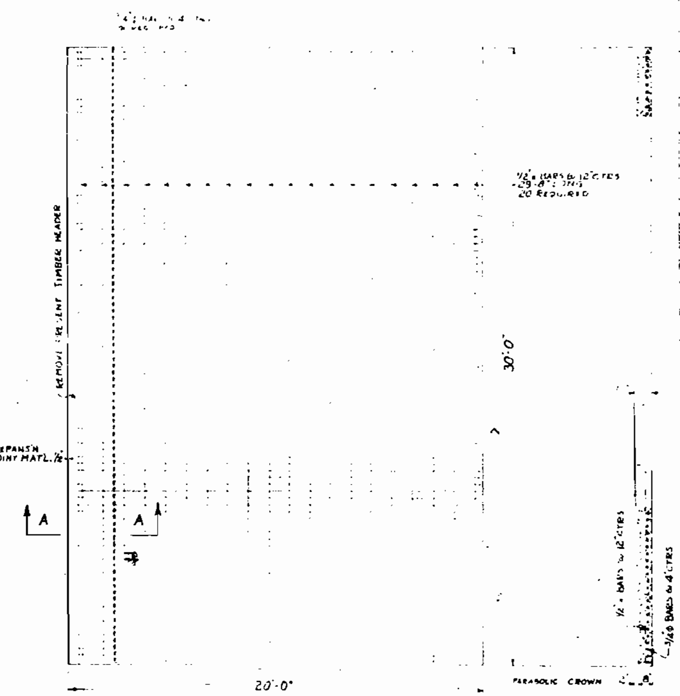
SUMMARY OF APPROXIMATE QUANTITIES

Nº	ITEM	UNIT	QUANTITIES ORIGINAL	EXTENSION	TOTAL
11a	Remove 8 Structures	Lump Sum			
11b	Removing Header & Cutting Floor of Bridge for Slab	Lump Sum			
12a	Remove Fence	Lin. Ft.		550	550
13x	Unclassified Excavation	Cu. Yd.	200	3800	4000
14a	Dry Rock Excavation (Struct.)	Cu. Yd.		20	20
14b	Dry Common Excavation (Struct.)	Cu. Yd.		160	160
14c	Wet Rock Excavation (Struct.)	Cu. Yd.		20	20
14d	Wet Common Excavation (Struct.)	Cu. Yd.		160	160
18a	Station Yard Overhaul	Sta. Yd.		6000	6000
37a	Concrete Pavement	Sq. Yd.	420	4680	5100
37b	Sand Cushion	Cu. Yd.	50	400	450
46a	Class "A" Concrete	Cu. Yd.	35	234	269
47	Reinforcing Steel	Lb.	6600	19,400	26,000
48	Structural Steel	Lb.		21,100	21,100
55	Relaying Pipe	Lin. Ft.		30	30
72	Wire Cable Guard Fence	Lin. Ft.		140	140
96a	15" Corr. Metal #20 Ga. Pipe	Lin. Ft.		210	210

LIST OF STRUCTURES

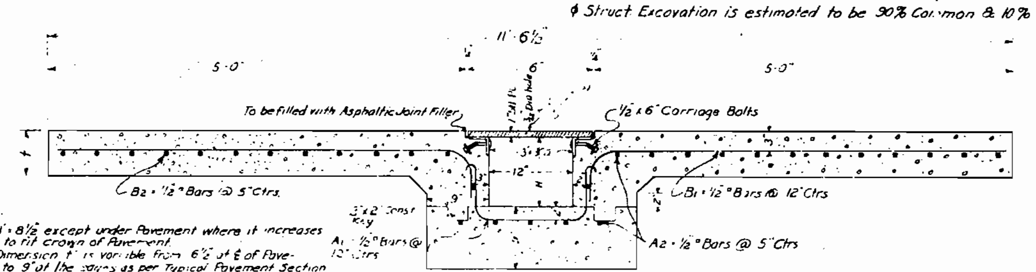
Location	Description	Remove Struct. No.	Excavation Cu. Yd. Uncl.	Excavation Cu. Yd. Emb.	ɸ Structural Excavation Cu. Yd.	Class "A" Conc. Cu. Yd.	Struct. Steel Lb.	Reinf. Steel Lb.	Corr. Metal Culvert Pipe Lin. Ft. 15"	Relay Pipe Lin. Ft.	Rem'v. Fence Lin. Ft.	Guard Fence Lin. Ft.	Miscellaneous
1030+45	Remove Struct. 12"x10" C.B.C., Ditches.	1	10		15	12.5	5260	1365					
1031+16⁵	Remove Struct. 12"x10" C.B.C., Ditches.	1	10		15	12.5	5260	1365					
1031+22	Ditch		10										
1034+50	Remove Struct. 12"x10" C.B.C., Ditches.	1	10		15	12.5	5260	1365					
1034+78	Relay C.M.P. Culvert to fit Ditch.									28			
1038+50	Remove Struct. 12"x10" C.B.C., Ditches.	1	10		15	12.5	5260	1365					
1039+15	Remove Struct., 15"x70' Encased Pipe, and Ditch Change.	1	10		20	10.2		767	70				
1042+41	Remove Struct., 15"x70' Encased Pipe and Ditch.	1	10		20	10.2		767	70				
1044+72 - 1045+45	Remove Fence										550		
1044+72 - 1045+45	2-70' Lengths Wire Cable Guard Fence											140	
1043+16	Remove Struct., 15"x70' Encased Pipe, and Ditch Improvement.	1	10		20	10.2		767	70				
1045+11	6'x6'x140' C.B.C., Remove Struct.	1	148		231	153.0		11,542					
Totals		8	228		351	233.6	21,040	19,303	210	28	550	140	

ɸ Struct. Excavation is estimated to be 90% Common & 10% Rock, each of which is estimated to be 50% Wet & 50% Dry.



PLAN OF APPROACH SLAB.

APPROACH SLAB
2 REQUIRED

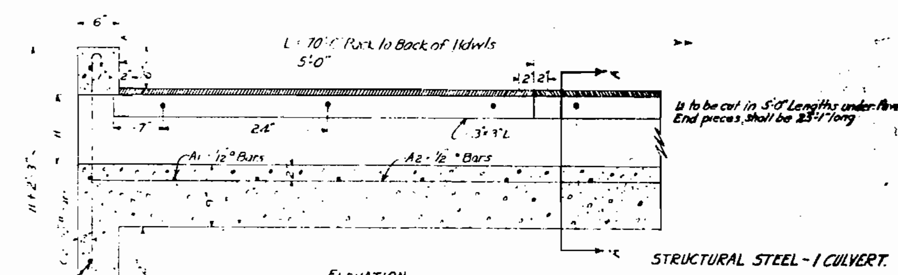


NOTE:
"H" = 8½" except under Pavement where it increases to 10" to fit crown of Pavement.
Dimension "t" is variable from 6½" at ℄ of Pavement to 9" at the same as per Typical Pavement Section.
The steel cover plate shall be of 1"x18" Structural Steel and 5'-0" long, with ¾" holes 3" from each end.
The 3"x3"x 5/16" angles shall have holes for ½" Carriage bolts, at 24" ctrs. in one leg only.
The ½"x6" Carriage bolts shall be bent to 30° at 3" from the head. The washers shall be 2"x2"x⅛" with 9/16" hole in center.

1/16 E.E.W.

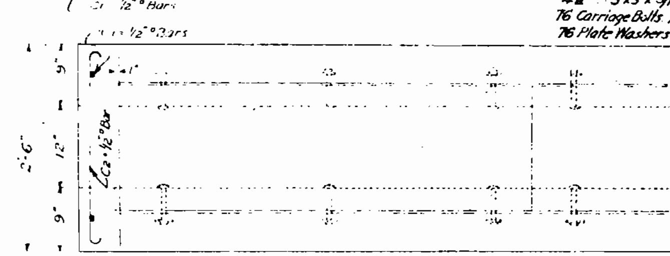
SECTION A-A

DETAIL OF 12"x10" CULVERT
STA. 1030+45, 1031+16⁵, 1034+50, 1038+50



STRUCTURAL STEEL - 1 CULVERT.

14 Pls. 18"x1"x5'-0" = 4284 lbs.
8 ∠s 3"x3"x5/16"x5'-0" }
4 ∠s 3"x3"x5/16"x25'-1" } 856 "
76 Carriage Bolts ½"x6" = 35 "
76 Plate Washers 2"x2"x⅛" = 6 "
5181 "
+1½% 79 "
Total 5260 lbs.



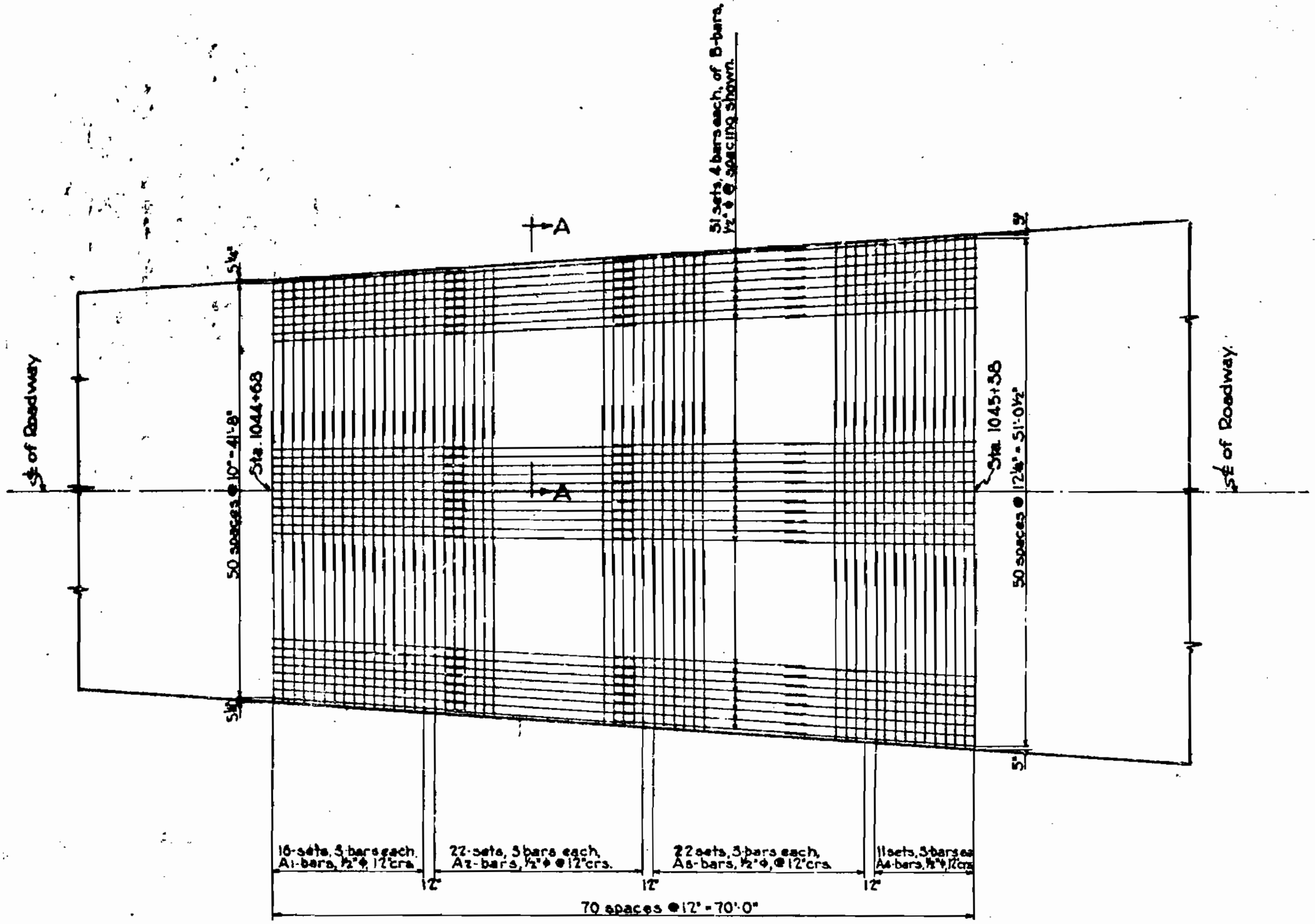
BAR LIST FOR CULVERT & SLAB

Mark	Size	No. Req'd	Length	Bending Diagram	Mark	Size	No. Req'd	Length	Bending Diagram
A1	½"ɸ	70	3'-9"	2"R, 1'-0", 2"R, 5½"	B2	½"ɸ	22	19'-8"	19'-8"
					C1	½"ɸ	4	3'-8"	2", 2'-4", 2"R
A2	½"ɸ	18	36'-4"	36'-4"	C2	½"ɸ	6	3'-2"	2", 1'-10", 2"R
B1	½"ɸ	40	5'-2"	3½", 4'-7"					

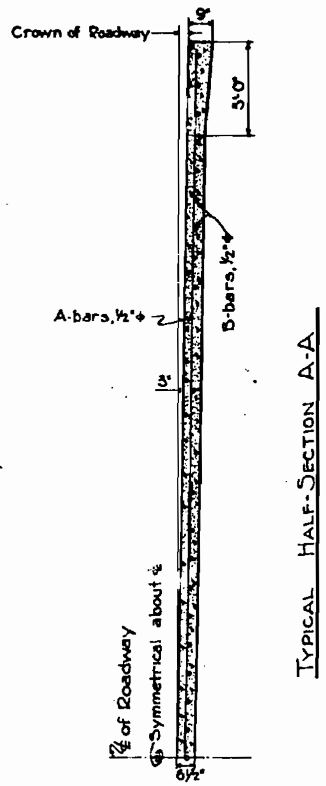
1590 lin. ft. ½"ɸ Bars @ 0.850# per lin. ft. = 1352 lbs.
+1% Overrun 13
Total for One Culvert 1365 lbs.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	NRM 260A	2-A	

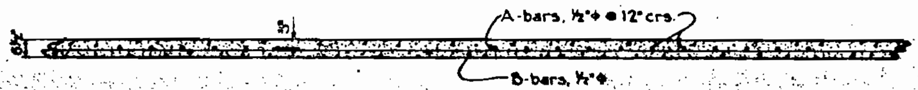
Additional Sheet
See W.O. 2983, 4-7-34



PLAN



TYPICAL HALF-SECTION A-A



TYPICAL PART SECTION ALONG ℄ OF ROADWAY

BAR LIST

MARK	SIZE	No. REQD.	LENGTH	BR
A1	½"φ	48	16'-0"	STRAIGHT BARS
A2	½"φ	66	17'-0"	
A3	½"φ	66	18'-0"	
A4	½"φ	33	19'-0"	
B	½"φ	204	19'-0"	

SUMMARY

7581 lin. ft. of ½"φ bars @ 0.668#/lin.ft. = 5064 lbs.
Plus 1% ± for Overrun 56 lbs.
TOTAL = 5120 lbs.

COLORADO
STATE HIGHWAY DEPARTMENT

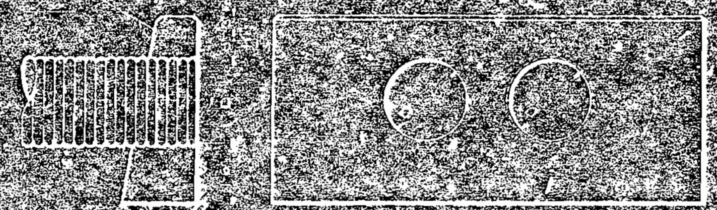
REINFORCING FOR PAVING SLAB

Across Sta. 1044+68 to 1045+38
Near Montrose Sec. T. R.

Designed by TGC Made by TGC Checked by BR	Approved by C.S. Bailey Bridge Engineer Date: April 17th 1934

STRUCTURE NO.

STANDARD M-102-E



SECTIONAL ELEVATION O-O   FRONT ELEVATION

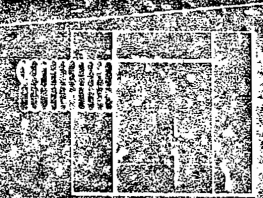
TABLE OF DIMENSIONS & QUANTITIES FOR DOUBLE CORRUG. METAL PIPE CULVERT & HEADWALLS

D	W	H	T	CU. YDS. CONCRETE FOR 2 HEADWALLS	CORRUGATED METAL PIPE		CEMENT RUBBLE MASONRY
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

STD. HEADWALLS FOR DOUBLE CORRUGATED METAL PIPE CULVERTS

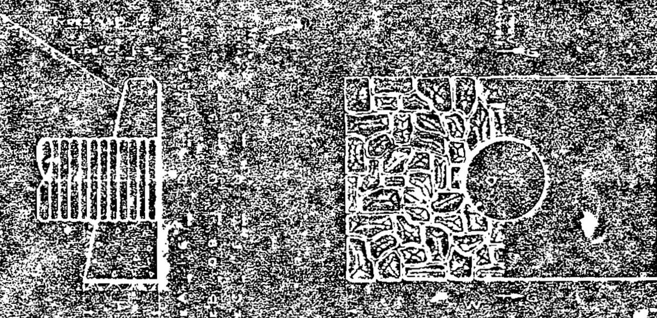
SECTIONAL ELEVATION "C-C"   SECTIONAL ELEVATION "B-B"

SIZE OF PIPE	WIDTH OF WALL	HEIGHT OF WALL	THICKNESS OF WALL	CONCRETE IN ONE HEADWALL
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



SECTIONAL PLAN A-A

INTERCEPTING HEADWALLS



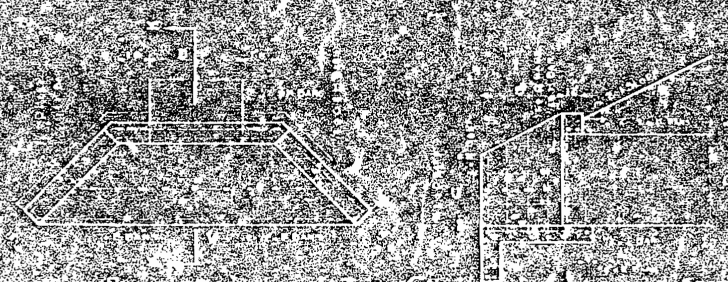
SECTIONAL ELEVATION G-G   HALF FRONT ELEVATION TYPE C   HALF FRONT ELEVATION TYPES A & B

TABLE OF DIMENSIONS & QUANTITIES FOR CORRUGATED METAL PIPE CULVERTS & HEADWALLS

TYPE	D	W	H	T	CU. YDS. CONCRETE FOR 2 HEADWALLS	CORRUGATED METAL PIPE		CEMENT RUBBLE MASONRY
A	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
G	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

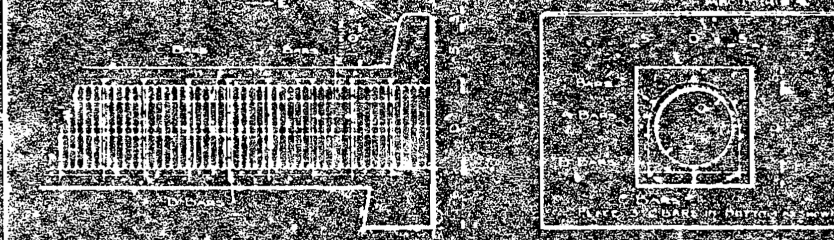
BAR LIST FOR TYPE "G"

	DIAMETER OF PIPE							BENDING DIAGRAM
D BARS	NUMBER / LENGTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
H BARS	SPACING / NUMBER / LENGTH	1 EACH	1 EACH	1 EACH	1 EACH	1 EACH	1 EACH	
F BARS	SPACING / NUMBER / LENGTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
G BARS	SPACING / NUMBER / LENGTH	18"	18"	18"	18"	18"	18"	
I BARS	SPACING / NUMBER / LENGTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
J BARS	NUMBER / LENGTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
K BARS	SPACING / LENGTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	



PLAN OF HEADWALLS TYPE G   SECTION K-K

STANDARD HEADWALLS FOR CORRUGATED METAL PIPE CULVERTS



LONGITUDINAL SECTION F-F   SECTIONAL ELEVATION E-E

TABLE OF DIMENSIONS & QUANTITIES FOR INCASED PIPE CULVERT

		12	15	18	24	30	BENDING DIAGRAMS
DIAMETER OF PIPE	D	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
WIDTH OF HEADWALL	W	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
HEIGHT OF HEADWALL	H	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
WIDTH OF HEADWALL BASE		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
A BARS		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
D BARS		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
C BARS		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
ITEM / DESCRIPTION	UNIT						
CONCRETE CLASS A		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
REINFORCING STEEL		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
CORR. METAL PIPE		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

SPECIAL NOTES

INCASED PIPE CULVERTS

GENERAL NOTES FOR ALL STRUCTURES

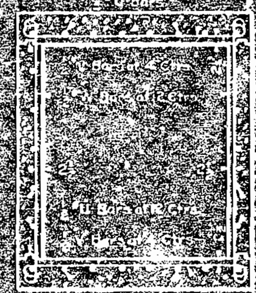
All work shall be done according to the standard specifications of the Colorado State Highway Department, adopted Jan. 1, 1930.
All concrete shall be class ... except ... and ... work.
All exposed surfaces shall be rubbed free of form marks.
All exposed corners shall be beveled to a 2" face.
All construction joints shall be thoroughly cleaned before fresh concrete is poured.
[illegible]
Footings in rock shall be poured ... to the rock and not formed.

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD HEADWALLS
INTERCEPTING HEADWALLS
INCASED METAL PIPE CULVERT
WITH HEADWALLS
FOR
CORRUGATED METAL PIPE CULVERTS

STRUCTURE NO.

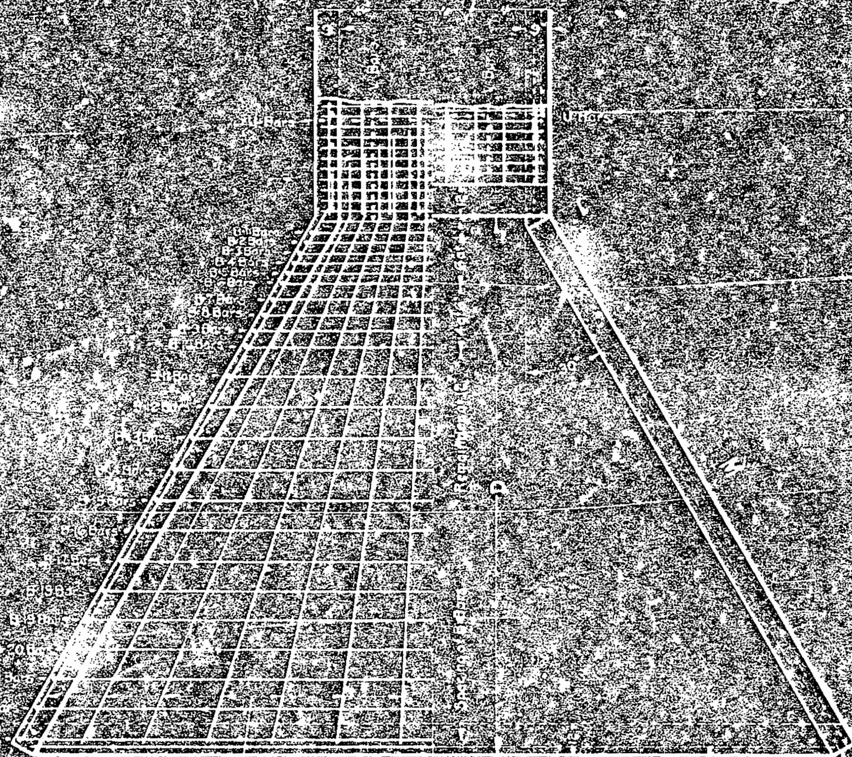
M-102-E

STANDARD M-103-D

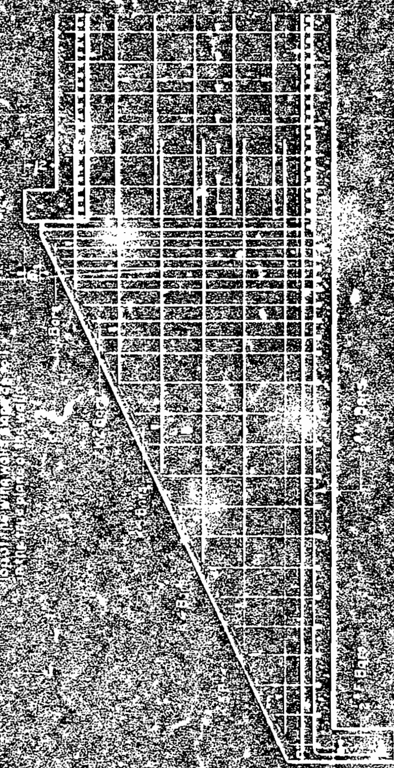


TYPICAL SECTION THRU BOX

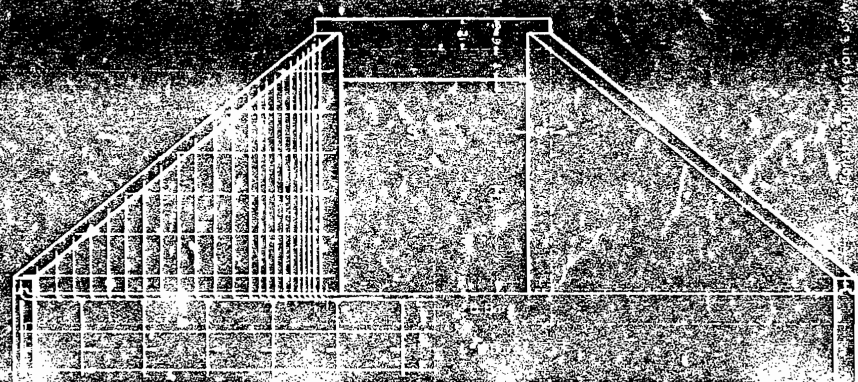
TYPICAL SECTION SHOWING RELATION OF CULVERT TO ROADWAY



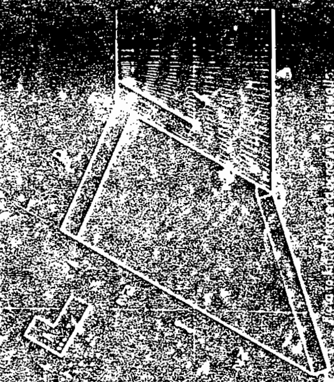
PART PLAN



LONGITUDINAL SECTION ON CENTER LINE OF BOX



END VIEW



PART PLAN FOR SKEWED HEADWALLS

REINFORCEMENT BAR LIST

USE BARS FOR	MARK	SIZE	NUMBER	DIMENSION P	DIMENSION Q	TOTAL LENGTH
ALL SIZES	[illegible]	[illegible]	[illegible]	S+10		[illegible]
	[illegible]	[illegible]	[illegible]	H+10		H+2-2
			[illegible]			[illegible]
	[illegible]		[illegible]			[illegible]
	[illegible]		[illegible]		3-4	[illegible]
H-2-0 OR MORE	K-2	[illegible]	[illegible]		6-8	6-8
H-3-0	K-3	[illegible]	[illegible]		10-0	12-0
H-5-0	K-4	[illegible]	4		13-4	15-4
H-6-0	K-5	[illegible]	[illegible]		16-8	18-8
H-6-0	K-6	[illegible]	[illegible]		20-0	22-0
ALL SIZES	B-1	[illegible]	2	S+1-6	H+1-3	
	B-2	[illegible]	2	S+1-11	[illegible]	
	B-3	[illegible]	2	S+2-3	H+0-11	
	B-4	[illegible]	2	S+2-8	H+0-9	
	B-5	[illegible]	2	S+3-0	H+0-8	
	B-6	[illegible]	2	S+3-5	H+0-6	
	B-7	[illegible]	2	S+4-0	H+0-4	
	B-8	[illegible]	2	S+4-7	H+0-0	
	B-9	[illegible]	2	S+5-2	H-0-3	
H-1-6 OR MORE	B-10	[illegible]	2	S+5-9	H-0-5	
H-2-0	B-11	[illegible]	2	S+6-11	H-0-11	[illegible]
H-3-0	B-12	[illegible]	2	S+8-1	H-1-4	
H-3-0	B-13	[illegible]	2	S+9-3	H-1-10	
H-3-0	B-14	[illegible]	2	S+10-5	H-2-3	
H-4-0	B-15	[illegible]	2	S+11-7	H-2-9	
H-4-0	B-16	[illegible]	2	S+12-9	H-3-3	
H-5-0	B-17	[illegible]	2	S+13-11	H-3-8	
H-5-0	B-18	[illegible]	2	S+15-1	H-4-2	
H-6-0	B-19	[illegible]	2	S+16-3	H-4-7	
H-6-0	B-20	[illegible]	2	S+17-5	H-5-1	
H-6-0	B-21	[illegible]	2	S+18-7	H-5-6	
H-7-0	B-22	[illegible]	2	S+19-9	H-6-0	
H-7-0	B-23	[illegible]	2	S+20-11	H-6-5	
ALL SIZES	M	[illegible]	[illegible]	0+3-0		[illegible]

* See Table of Dimensions and Quantities

TABLE OF DIMENSIONS AND QUANTITIES

STEEL QUANTITIES GIVEN BELOW INCLUDE ALLOWANCE FOR OVERRUN OF [illegible]

TOTAL QUANTITIES FOR ONE BOX EQUALS THE QUANTITY FOR TWO HEADWALLS PLUS [illegible] QUANTITY FOR ONE LINEAL FT. OF BOX

SPAN S	HEIGHT H	HEIGHT OF FILL ALLOWED	DIMENSION M	DIMENSION N	DIMENSION D	THICKNESS OF SLAB T	NUMBER OF B BARS PER BOX	ONE LINEAL FT. OF BOX: CONCRETE CU. YDS.	ONE LINEAL FT. OF BOX: STEEL LBS.	TWO HEADWALLS: CONCRETE CU. YDS.	TWO HEADWALLS: STEEL LBS.	[illegible]	[illegible]
1-6	1-6	23-6	5-6¼	7-2½	5-1	8	8	0.241	30.6	[illegible]	[illegible]	116.91	4.40
2-0	2-0	22-6	6-9¾	8-10	6-3	8	8	0.295	[illegible]	6.1	[illegible]	153.41	5.18
3-0	1-0	19-0	4-7	7-9⅝	4-4¼	10	8	0.33[illegible]	37.5	5.0	210	116.50	4.65
3-0	2-0	19-0	7-1	10-3⅞	6-6¼	10	10	0.388	40.5	[illegible]	430	178.16	5.76
3-0	3-0	19-0	9-7	12-9⅜	8-8⅛	10	12	0.444	43.6	11.0	605	250.88	6.87
4-0	2-0	15-0	7-1	11-3⅞	6-6¼	10	12	0.450	47.0	8.5	480	195.13	6.19
4-0	3-0	15-0	9-7	13-9⅜	8-8⅛	10	14	0.506	50.0	[illegible]	660	[illegible]	7.31
4-0	4-0	15-0	12-1	16-3⅜	10-10¼	10	16	0.562	53.1	16.0	890	353.71	8.42
5-0	3-0	11-6	9-7	14-9⅜	8-8⅛	10	16	0.567	56.6	12.8	[illegible]	293.60	[illegible]
5-0	4-0	11-6	12-1	17-3⅜	10-10¼	10	18	0.623	59.6	17.1	865	385.43	8.87
5-0	5-0	11-6	14-7	19-9⅜	13-0	10	20	0.679	62.7	21.9	1070	488.07	9.98
6-0	2-0	10-0	7-4¾	13-7⅛	6-9⅜	11½	16	0.645	60.0	11.3	590	239.50	7.23
6-0	3-0	10-0	9-10¾	16-1⅛	8-11¼	11½	18	0.699	63.0	15.3	[illegible]	325.95	8.34
6-0	4-0	10-0	12-4¾	18-7⅛	11-1¼	11½	20	0.755	66.2	20.1	935	423.57	9.45
6-0	5-0	10-0	14-10¾	21-1⅛	13-3¼	11½	22	0.810	69.2	25.6	1145	532.02	10.56
6-0	6-0	10-0	17-4¾	23-7⅛	15-5¼	11½	24	0.866	72.3	31.7	1420	651.48	11.67
6-0	7-0	10-0	19-10¾	26-1⅛	17-7¼	11½	26	0.923	75.3	38.5	1685	781.58	12.79

GENERAL NOTES

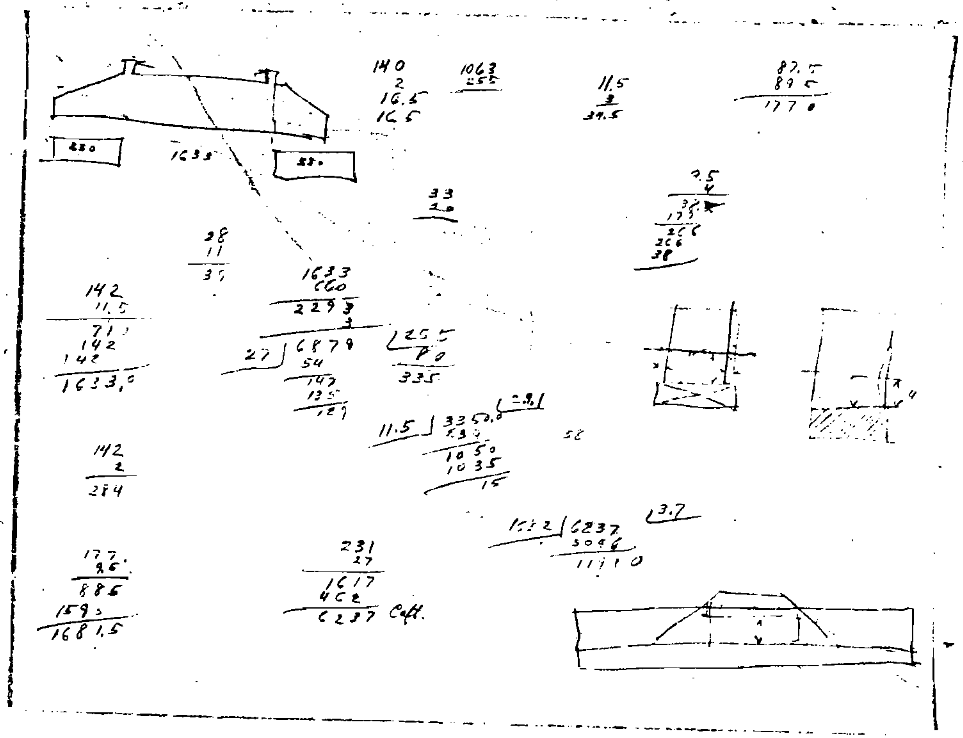
[illegible]

LOADING DATA
H.L. A.A.S.H.O. H-15

COLORADO
STATE HIGHWAY DEPARTMENT
CONCRETE BOX CULVERTS

1½×1½	4×2	5×4	6×4
2×2	4×3	5×5	6×5
3×1	4×4	6×2	6×6
3×2	5×3	6×3	6×7
3×3			

M-103-D



Struct Exc for
6x6x43' box

— 230 A —

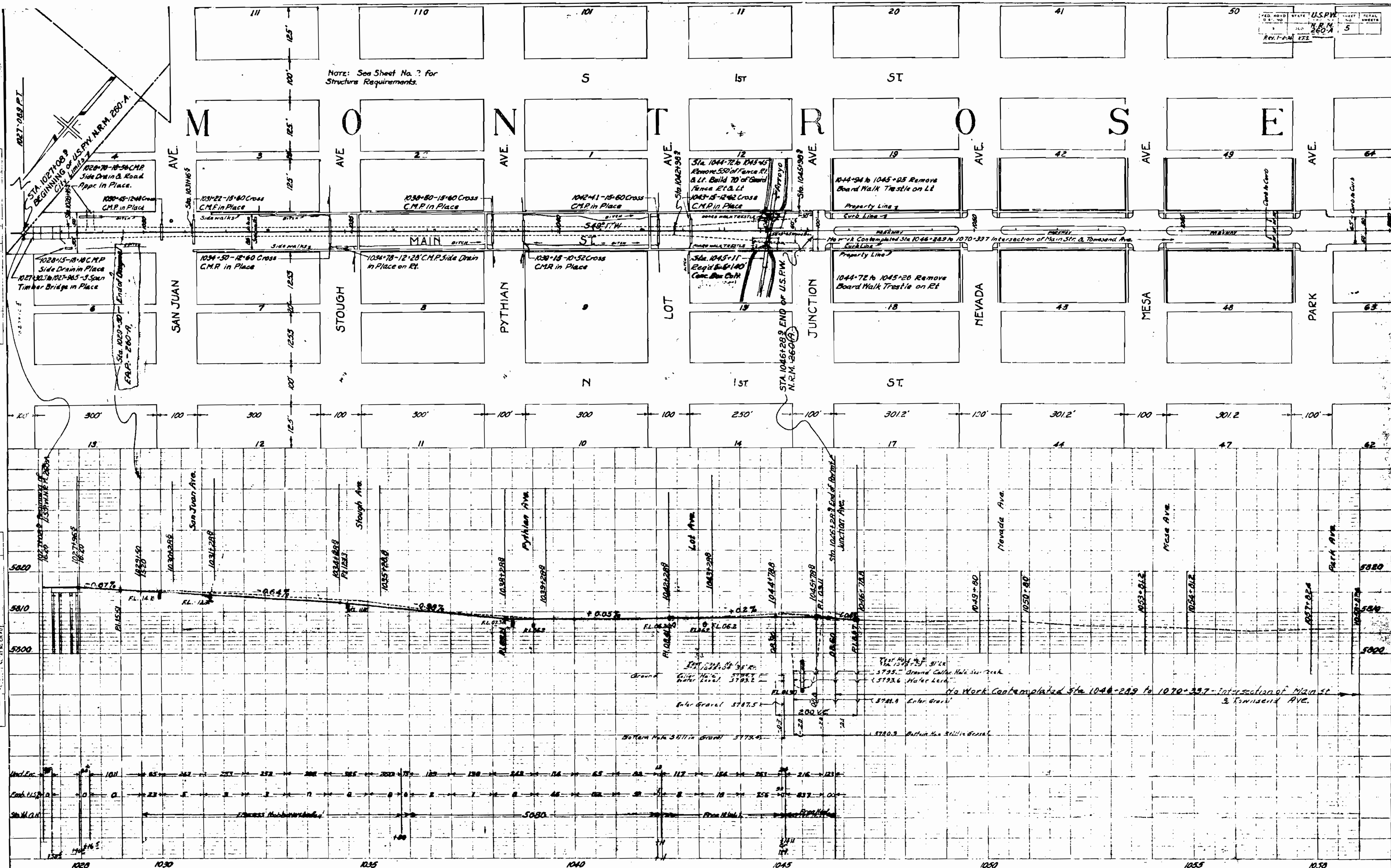
10-5-64

	Box Area D.	Box Area W	Extra Area D	Extra Area W
℄	139.55	38^{2}	31.8	42^{5}
20'	142^{5}	38^{25}	30^{2}	42^{7}
22 back	133^{25}	38^{25}	28^{2}	42^{7}
22 Ahd	112^{1}	38^{25}	23^{6}	42^{7}
33	60^{35}	38^{25}	10^{6}	42^{7}
36	49^{25}	38^{25}	11^{2}	42^{7}
37	12^{26}	38^{25}	4^{2}	43^{1}
50	3^{1}	[illegible]	[illegible]	[illegible]
72	0^{3}	37.27	16	[illegible]
79^{5}	[illegible]	[illegible]	[illegible]	[illegible]
℄	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	31.8	42^{3}
7^{5} B	13.85	37.05	[illegible]	[illegible]
15 Ahd	117.9	[illegible]	[illegible]	42.3
25	[illegible]	[illegible]	[illegible]	42^{3}
25 Back	[illegible]	37.25	[illegible]	42^{3}
25 Ahd	0	[illegible]	0	31^{2}
35	2^{45}	[illegible]	1^{2}	39^{7}
70	3^{41}	36^{25}	[illegible]	[illegible]
87^{5}	[illegible]	42.5^{2}	72	41^{2}

107^{2}	21^{2}	23^{2}	32^{1}
72	2^{2}	1^{5}	2^{3}
33^{2}	15^{2}	7^{1}	17^{4}
5^{1}	4^{2}	1^{3}	4^{5}
1^{1}	1^{4}	0^{2}	1^{6}
6^{2}	31^{0}	2^{4}	35^{2}
0^{2}	13^{7}	0^{6}	18^{6}
17^{5}	43^{6}	4^{1}	45^{2}
179^{6}	141^{3}	40^{6}	158^{4}
36^{2}	9^{5}	8^{2}	10^{2}
7^{2}	2^{1}	1^{6}	2^{2}
35^{5}	15^{2}	7^{6}	18^{2}
5^{0}	6^{2}	1^{2}	7^{5}
0^{4}	7^{5}	0^{3}	14^{6}
3^{5}	38^{2}	1^{5}	51^{7}
9^{3}	39^{0}	2^{2}	43^{7}
101^{3}	120^{3}	23^{5}	149^{2}

Old Area

280^{5}	261^{5}	64^{4}	307^{6}
37^{5}	21^{1}	8^{0}	4^{3}
243^{0}	240^{2}	56^{4}	303^{3}


FED. ROAD DIST. NO. | STATE | U.S.P.W. N.R.M. 260-A | SHEET NO. 5 | TOTAL SHEETS
Rev. 1-2-34
Note: See Sheet No. 2 for Structure Requirements.
M O N T R O S E
S 1ST ST.
N 1ST ST.
SAN JUAN AVE.
STOUGH AVE.
PYTHIAN AVE.
LOT AVE.
JUNCTION AVE.
NEVADA AVE.
MESA AVE.
PARK AVE.
MAIN ST.
S 49° 17' W
1027+08.9 P.T.
STA. 1027+08.9 BEGINNING of U.S.P.W. N.R.M. 260-A. City Limits
1028+70-18-56 C.M.P. Side Drain & Road Appr. in Place.
1030+45-12-44 Cross C.M.P. in Place
1028+15-18-18 C.M.P. Side Drain in Place
1027+30.5 to 1027+96.5 - 3 Span Timber Bridge in Place
Sta. 1029+30 - End of Original F.A.P. - 260-A.
Sta. 1031+16.5
1031+22-15-60 Cross C.M.P. in Place
1034+50-12-60 Cross C.M.P. in Place
1034+78-12-28' C.M.P. Side Drain in Place on Rt.
1038+80-15-60 Cross C.M.P. in Place
1039+18-10-52 Cross C.M.P. in Place
1042+41-15-60 Cross C.M.P. in Place
Sta. 1042+98.9
Sta. 1044+72 to 1045+45 Remove 550' of Fence Rt. & Lt. Build 70' of Guard Fence Rt. & Lt.
1043+15-12-62 Cross C.M.P. in Place
Arroyo
Sta. 1045+11 - Req'd 6x6x140' Conc. Box Culv.
Sta. 1045+98.9
STA. 1046+28.9 END of U.S.P.W. N.R.M. 260-A
1044+94 to 1045+95 Remove Board Walk Trestle on Lt.
1044+72 to 1045+26 Remove Board Walk Trestle on Rt.
Property Line
Curb Line
Parkway
Sidewalks
Ditch
No Work Contemplated Sta. 1046+28.9 to 1070+33.7 Intersection of Main Str. & Townsend Ave.
Curb to Curb
111 110 101 11 20 41 50
4 3 2 1 12 19 42 49 64
6 7 8 9 13 18 43 48 63
13 12 11 10 14 17 44 47 62
300' 100 300 100 300' 100' 300 100 250' 100' 301.2' 100' 301.2' 100 301.2 100'
125' 100' 125' 125' 125.5 20' 125.5 100' 125'
PLAN
PROFILE
5820 5810 5800
-0.07% -0.64% -0.99% +0.05% +0.2%
1027+08.9 Beginning of U.S.P.W. N.R.M. 260-A
1027+96.5
1029+50
1030+28.8
1031+28.8
1034+88.8
1035+28.8
1038+28.8
1039+28.8
1042+28.8
1043+28.8
1044+78.8
1045+78.8
Sta. 1046+28.9 End of Permit Junction Ave.
1046+78.8
1049+80
1050+80
1053+81.2
1054+81.2
1057+82.4
San Juan Ave.
Stough Ave.
Pythian Ave.
Lot Ave.
Nevada Ave.
Mesa Ave.
Park Ave.
200 V.C.
Test Hole No. 1
Ground
Enter Gravel 5787.5
Bottom Hole Still in Gravel 5779.4
Test Hole No. 2
5795 Ground Collar Hole Near Creek
5793.6 Water Level
Enter Gravel
5780.3 Bottom Hole Still in Gravel
No Work Contemplated Sta. 1046+28.9 to 1070+33.7 - Intersection of Main St. & Townsend Ave.
Und. Exc.
Emb. +15%
5080
1028 1030 1035 1040 1045 1050 1055 1058

CONCRETE PAVEMENT

FINAL CONSTRUCTION SHEET

N.R.M. 260 A

Station	Lin.Ft.	Width	Sq. Ft. Pavement
1027 / 88.9 -- 1027 / 11.0	2.1	30.0	63.0
1027 / 11.0 -- 1027 / 31.0 (class "A" Bridge Concrete Slab)			
1027 /31.0 -- 1027 / 96.0 (Bridge)			
1027 / 96.0 -- 1028 / 16.0 (Class "A" Concrete Bridge Slab)			
1028 / 16.0 -- 1030 / 39.23	223.23	26.28	5866.48
1030 / 39.23 - 1030 / 50.77 (Class"A" Concrete Box Slabs)			
1030 / 50.77 - 1031 / 16.0	65.23	21.10	1376.35
1031 / 16.0 - 1042 / 98.9 (Less 3 box slabs - 34.62/ft.)	1148.3	20.00	22966.00
1042 / 98.9 - 1045 / 98.9	300.0	40.00	12000.00
1045 / 98.9 - 1046 / 28.9	30.0	100.00	3000.00
1045 / 98.0 (Corners at rounding curb - Rt. & Lt.)			35.00
		Total	45306.83 Sq. Ft.

Total Sq. Yds. = $\frac{45306.83}{9}$ = 5034.1 Sq. Yds.

Gross length of Project ----- ~~1920 Ft.~~ 1922 ft.
Length of Bridge ---------- 66 Ft.
Length of Approach to Bridge- 40
Length of 4 Culvert Slabs @11.5 46
Net length of Pavement------- 1768.
~~1920 Ft.~~ ~~1920 Ft.~~

1922 ft. 1920.26

8/15/34
O.L.K.

Street Exc
[illegible]

— 26 C H —

10-1[illegible]-[illegible]

Total Exc [illegible]	914 2 [illegible]
Less [illegible]	71 [illegible]
Net Total Street Exc	843 [illegible]
Dry [illegible] Exc [illegible]	2[illegible]
Less [illegible] Exc	[illegible]
Net Dry Com. —	2-30
Net Com. Exc [illegible]	[illegible]315
Less [illegible]	[illegible]
Net Wet Com.	240 [illegible]

Extra [illegible] 7-9-34

Dry Com.	64 [illegible]
Less [illegible]	[illegible]
Net Dry Com.	53 [illegible]
Net Com.	317 [illegible]
Less [illegible]	[illegible]
Net wet Com.	30 8 [illegible]

Net wet Com. Exc [illegible] 303?/233? 2231?

	Excavation		Embankment		Excavation		Embankment	
	Cu. Yds.	Area	Area	Cu. Yds.	Cu. Yds.	Area	Area	Cu. Yds.

FINAL CONSTRUCTION SHEET

SUMARY of CONSTRUCTION QUANTITIES

No	ITEM	UNIT	QUANTITIES PLAN	W.O.	APPRD	CONST.	Overrun	Underrun
11a	Remove B Structures	Lump Sum						
11b	Removing ... & ... of Bridge for Slab	Lump Sum						
12a	Remove Fence	Lin Ft	550			451		99
13x	Unclassified Excavation	Cu Yd	4000		4000	2830.7 / 7869		1169.3
14a	Dry Rock Excavation (Struct)	Cu Yd	20		20	0		20
14b	Dry Common Excavation Struct	Cu Yd	160	+ 54	214	504.2	290.2	
14c	Wet Rock Excavation (Struct)	Cu Yd	20		20	0		20
14d	Wet Common Excavation Struct	Cu Yd	160	+289	449	543.6	94.6	
19a	Sq Yd Overhaul	Sta Yd	6000		6000	11,826.3	5826.3	
37a	Concrete Pavement	Sq Yd	5100		5100.0	5034.7		65.3
37b	Sand Cushion	Sq Yd	450		450.0	515.3	65.3	
46a	Class A Concrete	Cu Yd	269 / 26000	-0.3 / +234 / +5120	268.7 / 25,776 / 5,120	271.6 / 25,829 / 5,064	2.9 / 53	56
47	Reinforcing Steel	Lb						
43	Structural Steel	Lb	21,100		21,100	21,040		60.0
55	Relaying Pipe	Lin Ft	30		30	0		30
72	Wire Cable Guard Fence	Lin Ft	140		140	0		140
36a	15" - 20 Ga. C.M.P.	Lin Ft	210	-20	190	190		
	Select material backfill	Cu Yd	0	215	215	278.0	63.0	

218.2 ...
59.8 ... (... W.O.)

Index

Sheets
1-10 Roadway Quantities
11-17 Structures
18 Mass Diagram

45,306.83 Sq Ft Pavement
÷ 9 = 5034.1 Sq Yds Pavement

LIST OF STRUCTURES

Location	Description	Remove Struc. No	Excavation Cu Yd Unst	Excavation Cu Yd Emb	Structural Exc Cu Yd Common Dry	Structural Exc Cu Yd Common Wet	Class A concrete cu yd	Struct Steel Lb	Reinf Steel Lb	C.M.P. Culvert Lin Ft 15"	Relay Pipe Lin Ft	Remove Fence Lin Ft	Guard Fence Lin Ft	Select Material Backfill Cu Yd
1030+43	Remove Struct. 12'×12' C.B.C. Ditches	1	2.5		24.2		12.0	9394	1310					
1031+19½	Remove Struct. 12'×10' C.B.C. Ditches	1	1.3		45.0 / 40.2		15.0	5536	1423					
1031+23	Ditch													
1034+49	Remove Struct. 12'×14' C.B.C. Ditches	1	7.6		23.8 / 32.4		13.3	5250	1365					
1034+78	Relay C.M.P. Culvert for Drive													
1036+50	Remove Struct. 12"×... C.B.C. Ditches	1	7.0		25.5 / 24.2		14.0	5260	1365					
1039+14	Remove Struct. 15"×70 Encased													
	Pipe and Ditch Change	1	3.6		33.5		7.5		543	50				
1042+43	Remove Struct. 15"×70 Encased													
	Pipe and Ditch	1	1.5		29.5		10.2		767	70				
1044+75–1045+45	Remove Fence											451		
1044+75–1045+45	2 ... Cattle Guard Fence													
1047+13	Remove Struct. 15"×70 Encased													
	Pipe and Ditch Improvement	1	1.5		30.2		10.2		767	70				
1047+4	... Remove Struct.	1	35.7 / 36.42		29.9	54.36	15.5		11,542					
1047+41	Select material backfill													278.0
1044+68–1045+38	Reinforce Pavement								[illegible]					
1028+46.5	Approach Slabs at Bridge						33.3		[illegible]					
TOTALS			217.8 / 372.8		541 / 607	54.36	271.9	21040	36,893 / 38,767	190.0		451		278.0

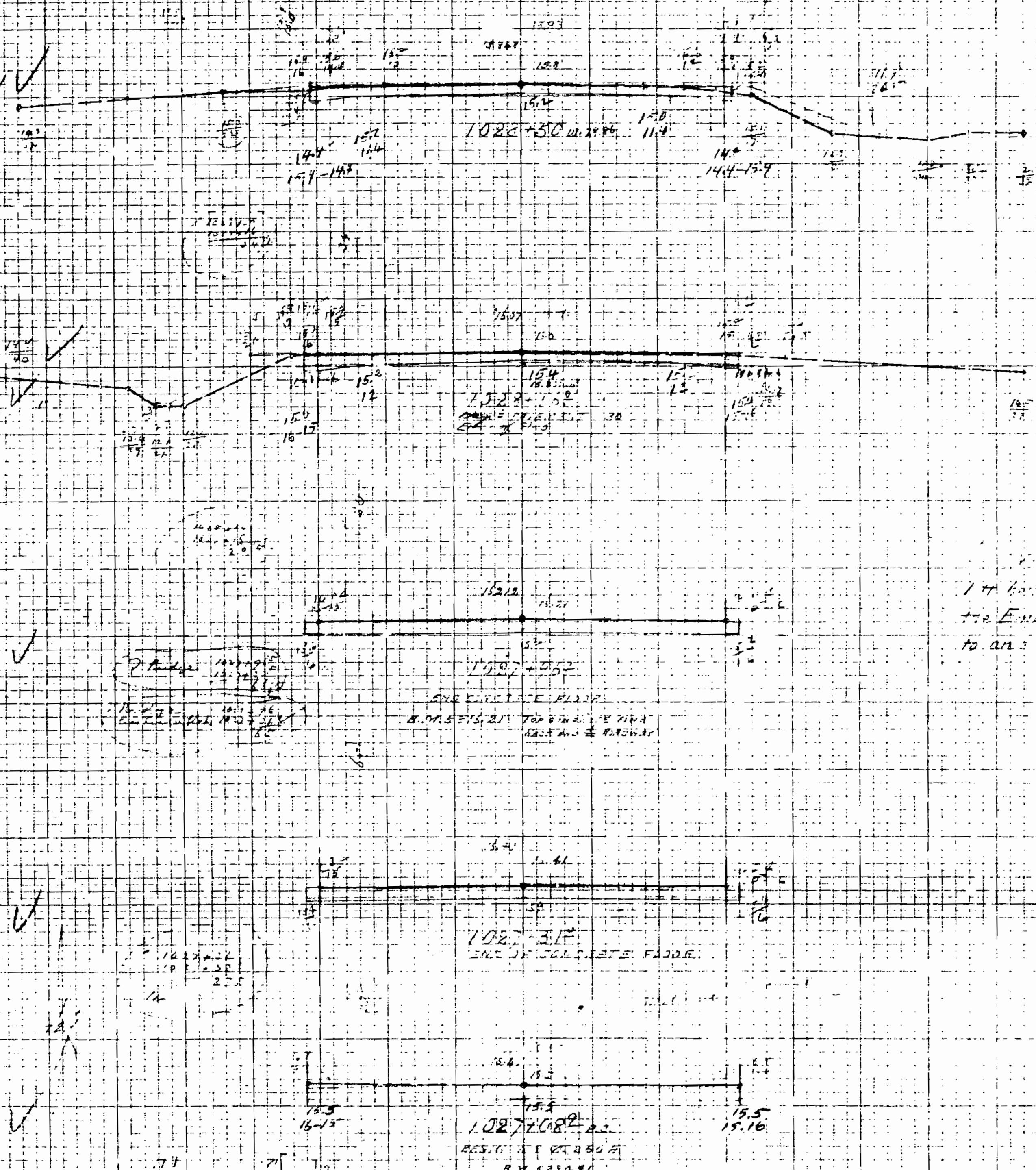
Note:
... Structural Excavation
... for ... Installed
in wet structural Excavation at
Sta. 1047+41 (Unit price on wet Common
Structural and Special Structural
Excavation are the same.)

SHEET TOTALS { EXCAVATION .... CU. YDS. / EXCAVATION .... CU. YDS. / EMBANKMENT .... CU. YDS. }

Fed. Road Dist. No.	State	Fed. Aid Proj. No.	Sheet No.	Total Sheets
8	COLO.	265		

FINAL CONSTRUCTION SHEET

Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.	Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.
	19.3					10.6	
25.7							13.3
	21.7					10.7	
20.4							4.0
	28.8						
25.6							
	33.6						17.3
71.7							



1027+76
+32 × 0.8 = 25.6
+16 × 0.2 = 3.2
+32 × 0.8 = 25.6
+16 × 0.2 = 3.2
57.6
28.8

1027+ = 25.6
+32 × 0.8 = 25.6
+16 × 0.2 = 3.2
+32 × 0.8 = 25.6
+16 × 0.2 = 3.2
57.6
28.8

R +10 × 3.2 = 32
L +17 × 3.7
− 0.2 × 16 = 3.2
67.2
33.6

Note — Excavation ... 1 ft. ... and the Embankment ... to an ... per sec.

SHEET TOTALS
EXCAVATION 71.7 CU. YDS.
EXCAVATION CU. YDS.
EMBANKMENT 17.3 CU. YDS.

Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.	Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.

FINAL CONSTRUCTION SHEET

1031+03

54.5

94.4

1031+00

1.8

2.1

43.6

1030+50

8.6

5.4

63.2

25.4

44.6

1030+00

3.3

18.3

33.6

23.2

1029+50

16.6

25.7

34.0

13.2

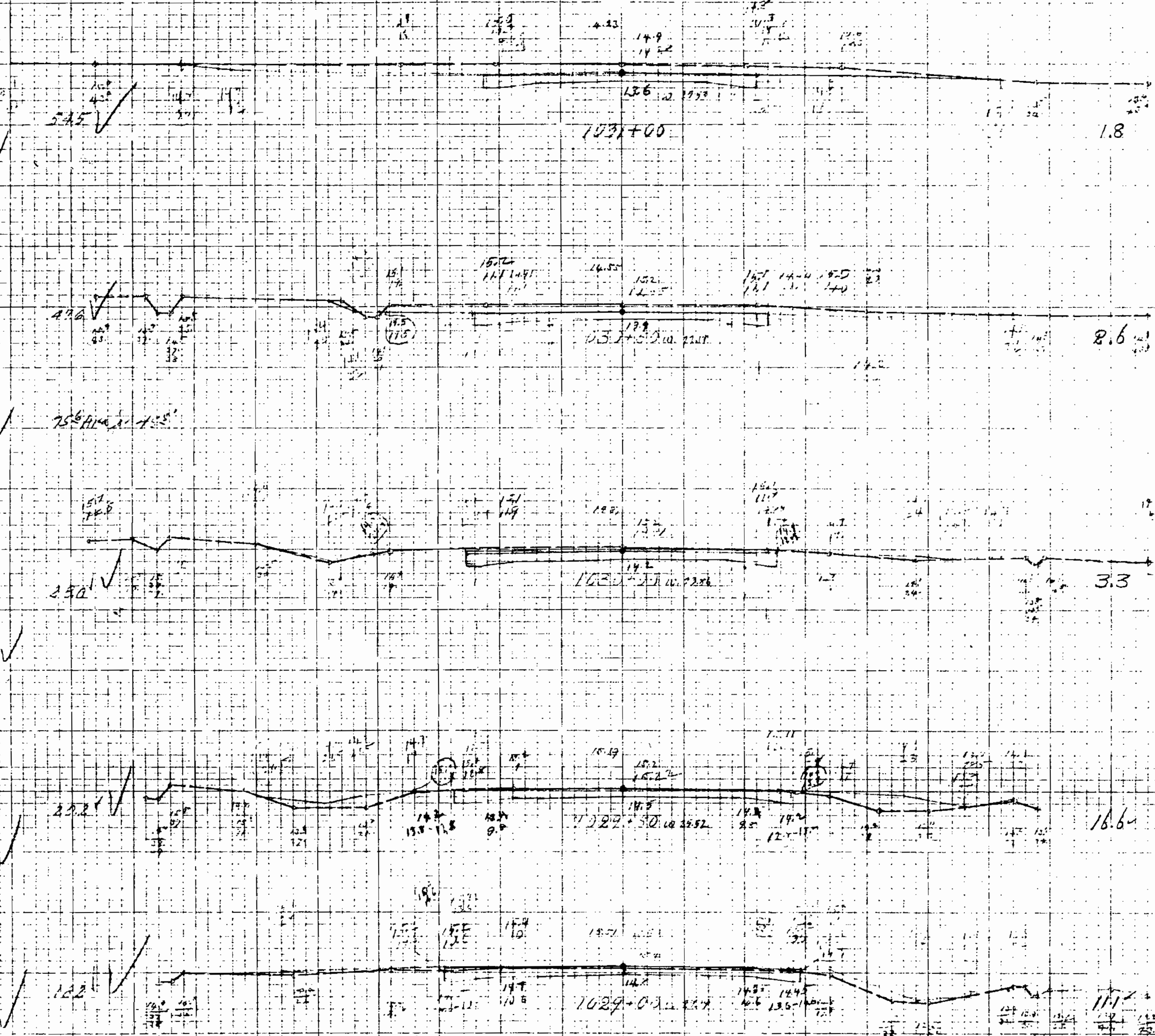
1029+00

11.1

20.0

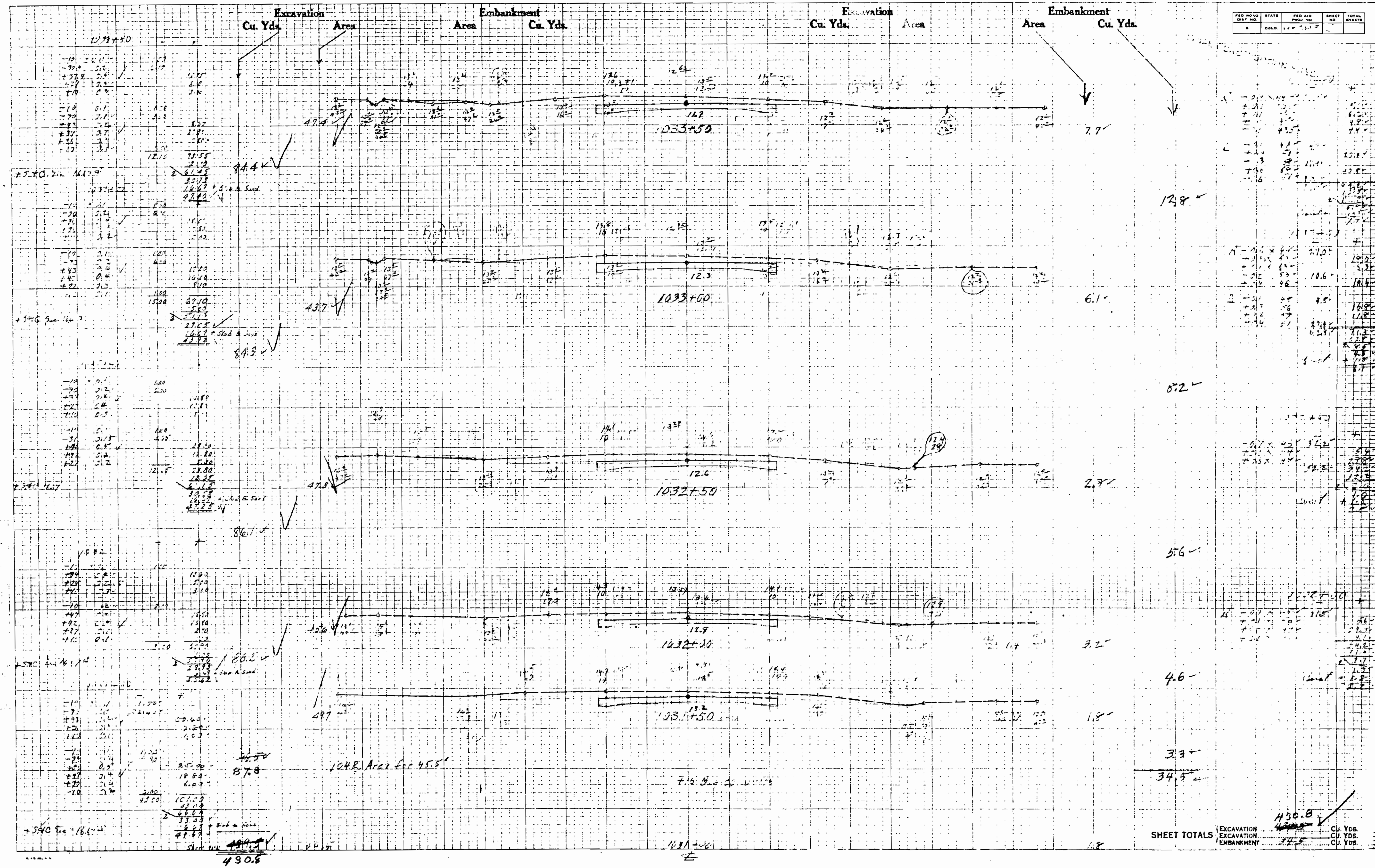
279.2

73.5



SHEET TOTALS EXCAVATION ______ CU. YDS.
EXCAVATION ______ CU. YDS.
EMBANKMENT ______ CU. YDS.

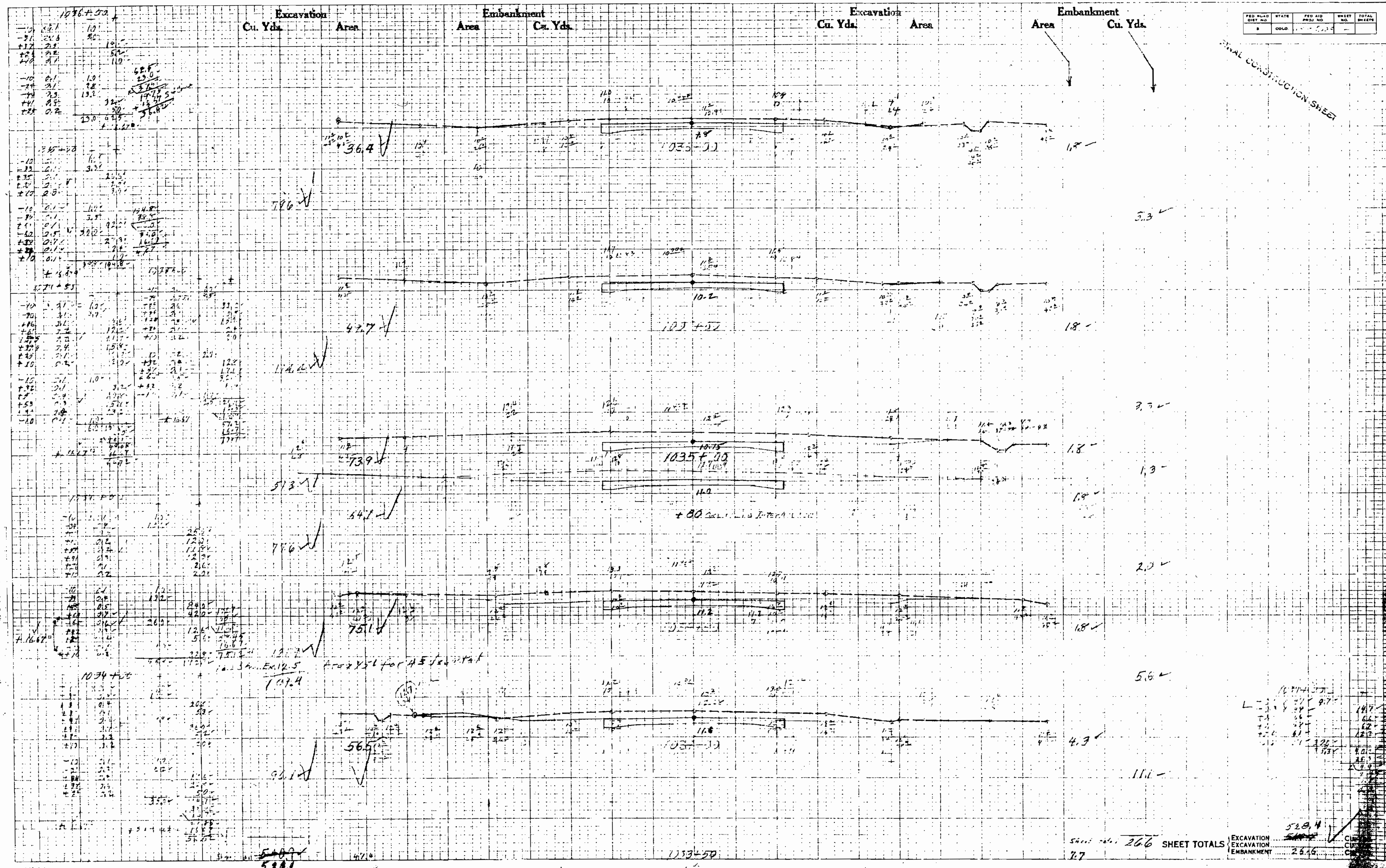
2729



Excavation
Cu. Yds.
Area
Embankment
Area
Cu. Yds.
Excavation
Cu. Yds.
Area
Embankment
Area
Cu. Yds.
1033+50
84.4
7.7
12.8
1033+00
84.3
6.1
8.2
1032+50
86.1
2.8
5.6
1032+00
66.2
3.2
4.6
1031+50
1.8
3.3
34.5
87.8
104R Area for 45.5
430.8
SHEET TOTALS
EXCAVATION 430.8 CU. YDS.
EXCAVATION CU. YDS.
EMBANKMENT 34.5 CU. YDS.

Excavation		Embankment		Excavation		Embankment	
Cu. Yds.	Area	Area	Cu. Yds.	Cu. Yds.	Area	Area	Cu. Yds.

FINAL CONSTRUCTION SHEET



Sheet total 26.6 SHEET TOTALS { EXCAVATION 528.4 / EXCAVATION / EMBANKMENT 26.6

FED ROAD DIST NO	STATE	FED AID PROJ NO	SHEET NO	TOTAL SHEETS
8	COLO	[illegible]		

FINAL CONSTRUCTION SHEET

Excavation Cu. Yds.	Area	Embankment Area	Cu. Yds.

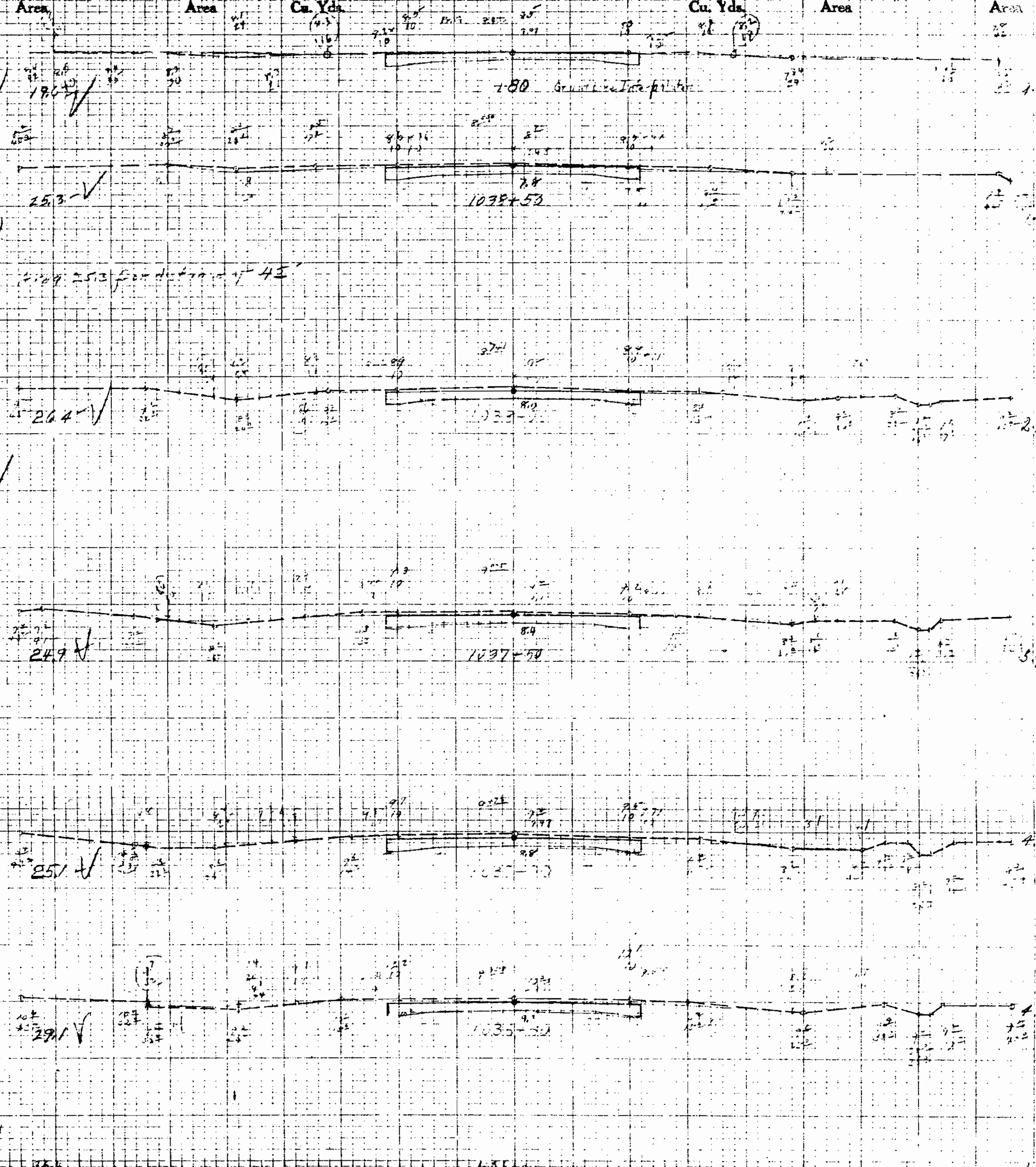
Excavation Cu. Yds.	Area	Embankment Area	Cu. Yds.

SHEET TOTALS

EXCAVATION	528.4 CU. YDS.
EXCAVATION	CU. YDS.
EMBANKMENT	26.6 CU. YDS.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLO.			

Excavation		Embankment		Excavation		Embankment	
Cu. Yds.	Area	Area	Cu. Yds.	Cu. Yds.	Area	Area	Cu. Yds.



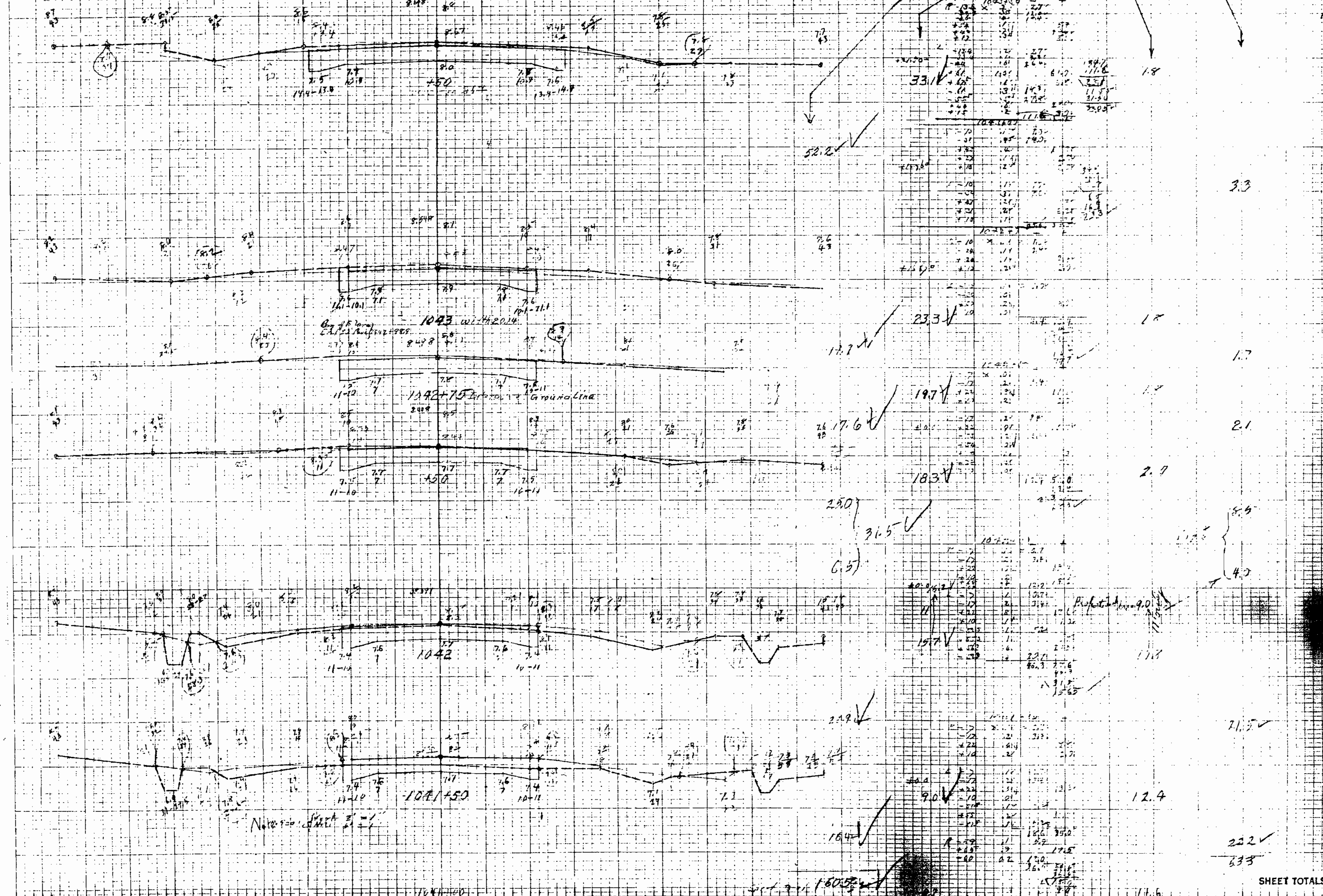
24.7
48.0
Less Struc. Ex. 2.3
45.7
47.4
46.3
54.1
65.6

SHEET TOTALS
EXCAVATION .... CU. YDS.
EXCAVATION .... CU. YDS.
EMBANKMENT .... CU. YDS.

Excavation		Embankment	
Cu. Yds.	Area	Area	Cu. Yds.

Excavation		Embankment	
Cu. Yds.	Area	Area	Cu. Yds.

FINAL CONSTRUCTION SHEET



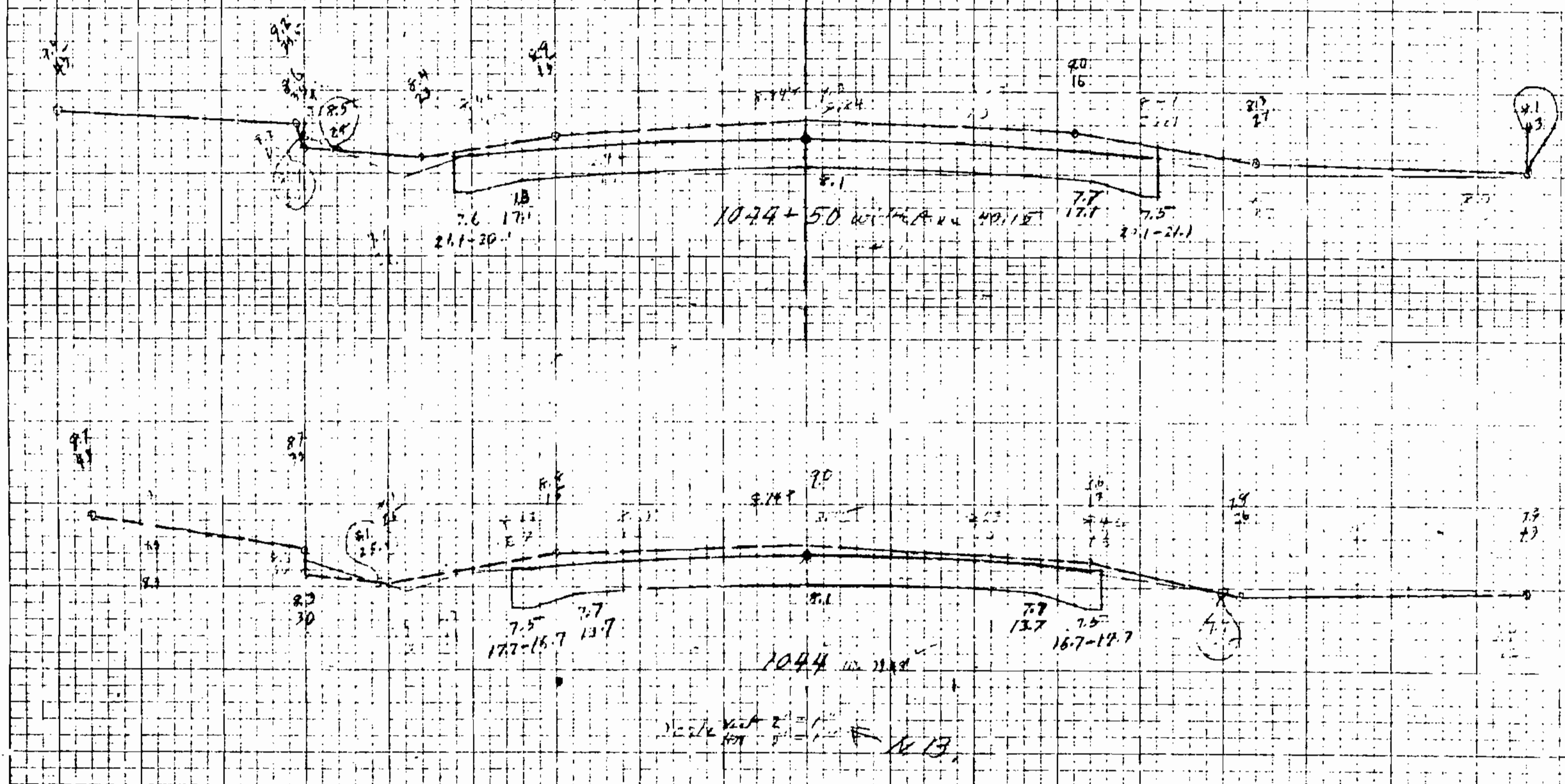
SHEET TOTALS

EXCAVATION	160.5	CU. YDS.
EXCAVATION		CU. YDS.
EMBANKMENT	63.3	CU. YDS.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	[illegible]	[illegible]	

Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.

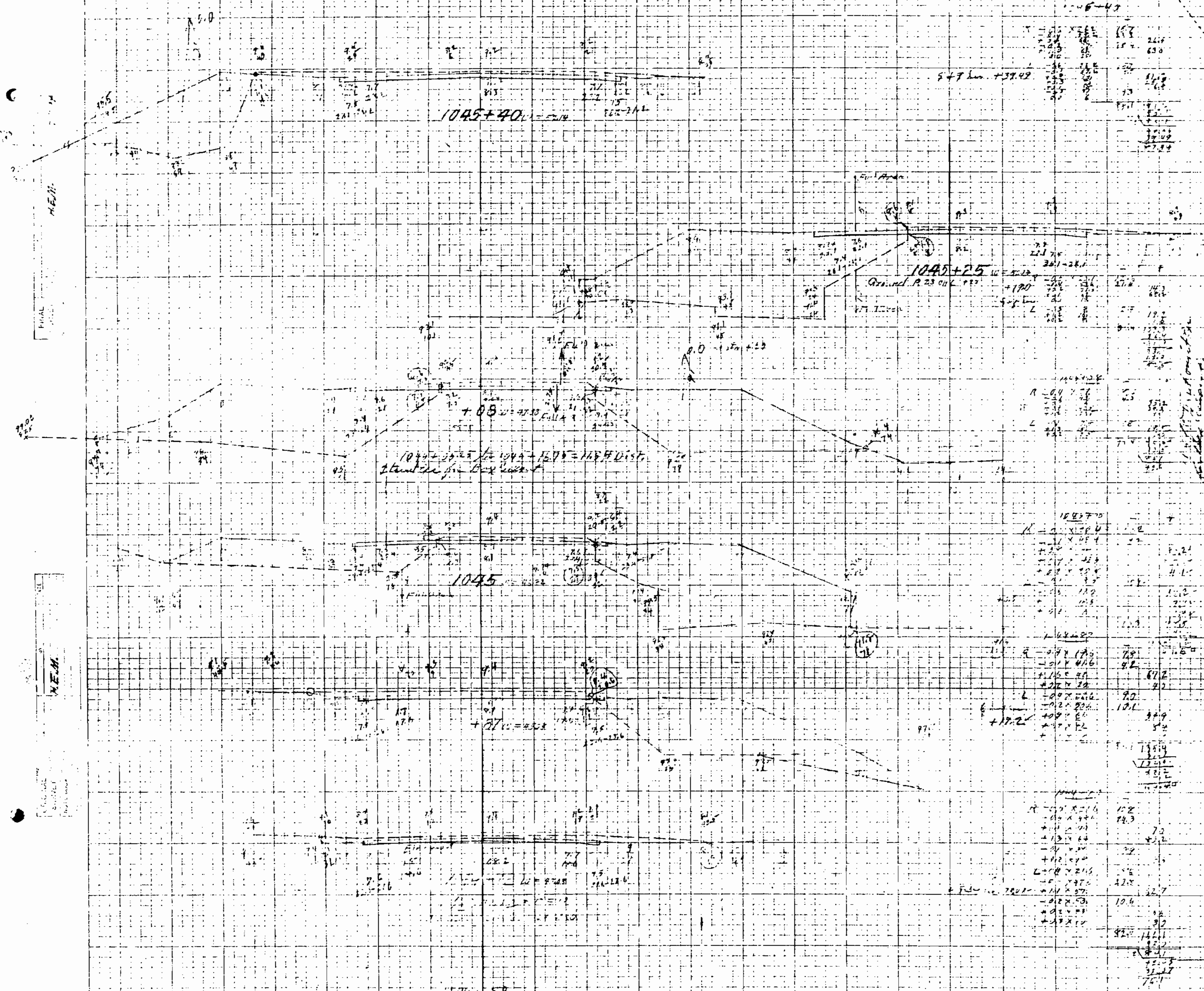
Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.



52.5
83.3
2.1
4.3
37.4
65.4
2.5
4.0
8.3
143.7
33.1
1.3

SHEET TOTALS — EXCAVATION 147.2 CU. YDS.; EXCAVATION CU. YDS.; EMBANKMENT 8.3 CU. YDS.

Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.
	57.5	247.1	
38.9			273.0
	52.5	169.4	
14.4			521.7
	42.6	434.7 R 543.7 L	
8.2			236.3
	41.5	544.2 R 237.2 L	
26.7			235.9 K 315…
	27.4	436.4 R 9.9 L	
40.2			121.9
	15.1	1.8	
52.0			9.7
180.4			1936
		2.1	



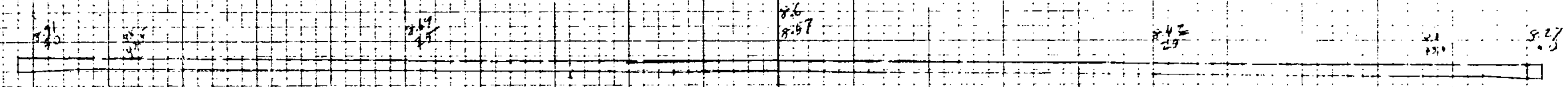
FINAL CONSTRUCTION SHEET

SHEET TOTALS
- EXCAVATION 182.4 CU. YDS.
- EXCAVATION ____ CU. YDS.
- EMBANKMENT 1473.6 CU. YDS.

Excavation		Embankment		Excavation		Embankment	
Cu. Yds.	Area	Area	Cu. Yds.	Cu. Yds.	Area	Area	Cu. Yds.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLO.			

FINAL CONSTRUCTION SHEETS



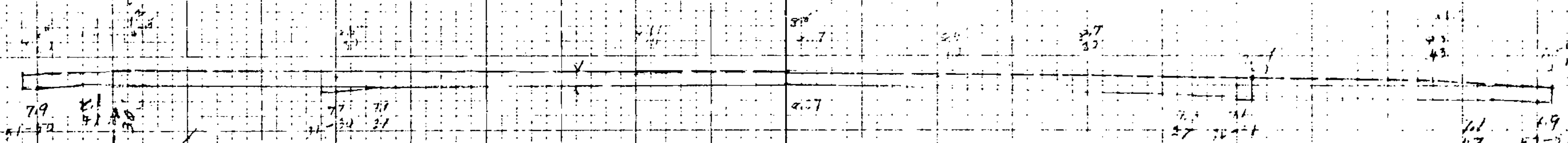
735 ✓

980 ✓

1046+28.9

1.8

2.0

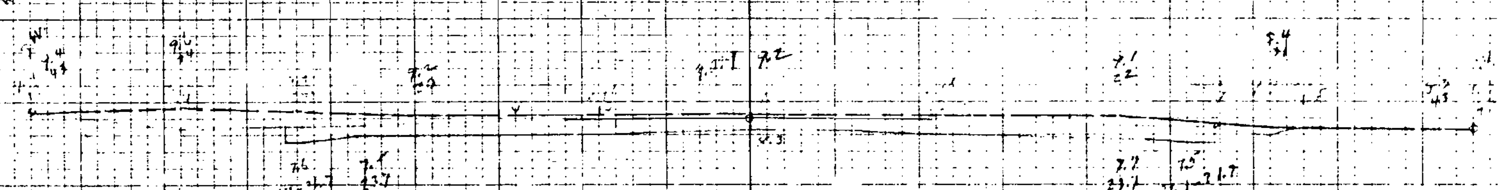


1027
743

(1?+00.0)
1046+98.9 w = 60+00

1.8

3.3



137.4 ✓

77.4 ✓

1045+50 w = 53.4

1.8

30.6 ✓

24.4
57.7

266.0 ✓

SHEET TOTALS
EXCAVATION ..... 266.0 ..... CU. YDS.
EXCAVATION ..... CU. YDS.
EMBANKMENT ..... 57.7 ..... CU. YDS.

Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.

FED ROAD DIST NO	STATE	FED AID PROJ NO	SHEET NO.	TOTAL SHEETS
8	COLO		11	

SHEET TOTALS		
	EXCAVATION	Cu. Yds.
	EXCAVATION	Cu. Yds.
	EMBANKMENT	Cu. Yds.

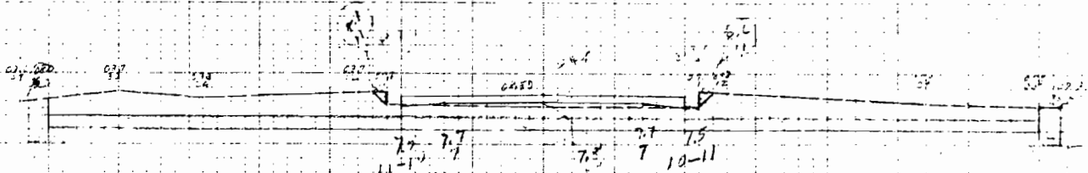
Excavation Cu. Yds.	Area	Embankment Area	Cu. Yds.	Excavation Cu. Yds.	Area	Embankment Area	Cu. Yds.

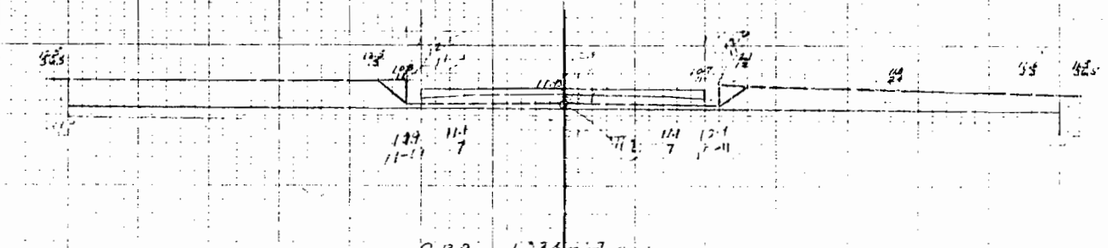
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLO.		6	

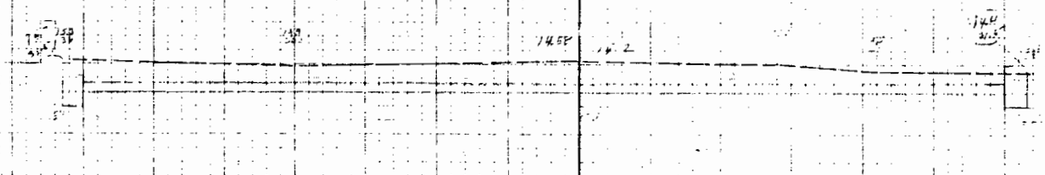
FINAL CONSTRUCTION SHEET

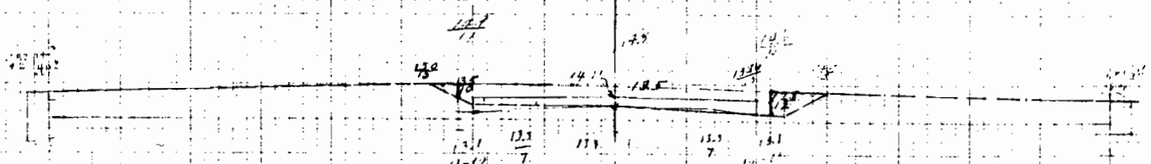
FINAL SURVEY

ORIGINAL SURVEY









SHEET TOTALS | EXCAVATION CU. YDS. | EXCAVATION CU. YDS. | EMBANKMENT CU. YDS.

Concrete in 4, 12'x10' Box Culverts + Slabs.

C.D.P.W. N.R.M. 210-A

Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.	Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.

FED ROAD DIST NO	STATE	FED AID PROJ NO.	SHEET NO	TOTAL SHEETS
8	COLO		42	

FINAL CONSTRUCTION SHEET

103+50

103+45

SHEET TOTALS
EXCAVATION ..... CU YDS.
EXCAVATION ..... CU YDS.
EMBANKMENT ..... CU YDS.

Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.	Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	-	14	

1049+15

1142+43

1243+15

1072+43

SHEET TOTALS
EXCAVATION ..... CU. YDS.
EXCAVATION ..... CU. YDS.
EMBANKMENT ..... CU. YDS.

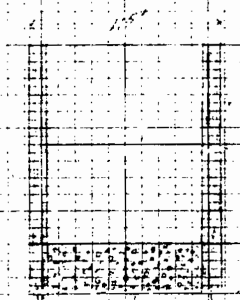
Explanatory Sheet to Sheet #16 and 17

Excavation Cu. Yds.	Area	Embankment Area	Cu. Yds.	Excavation Cu. Yds.	Area	Embankment Area	Cu. Yds.

FED. ROAD DIST. NO.	STATE	PROJECT PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLO.			

FINAL CONSTRUCTION SHEET

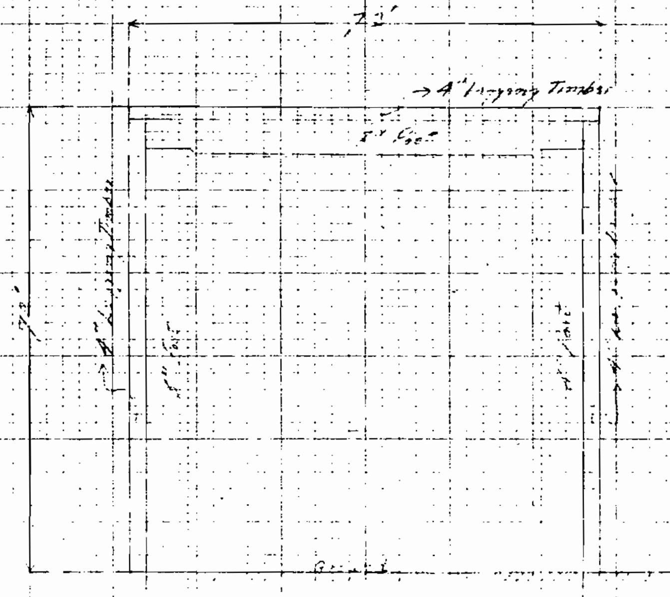
Typical Section used in Computing Structural excavation for C.B.C. at Sta 1045+11



Extra width excavation to allow for forming gravel backfill (See Work order No. 2984)

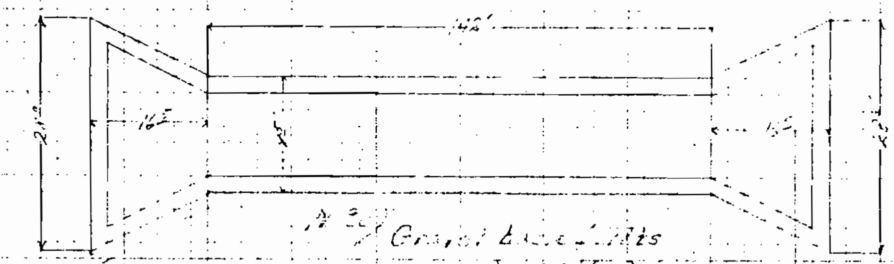
Excavation for gravel backfill [illegible] (See Work order No. 2984)

End View of Old Structure at Sta 1045+11 [illegible]



Special Structural Excav. is included in Wet Com. Struct. Excav. (See W.O. #2984)

Section Showing [illegible] gravel [illegible]



[illegible] Gravel [illegible] [illegible] 3' [illegible] depth under Structure.

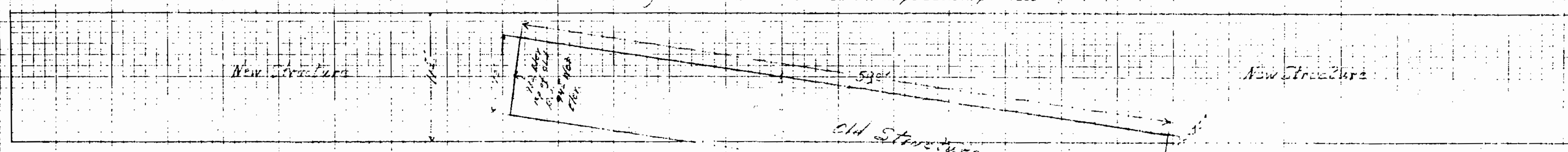
[illegible] = 149.9 Cu. yds.

[illegible] = [illegible] Cu. yds.

217.7 Material under Structure.
59.3 Additional Material used [illegible] Wing Wall forms.

Total 277.0 Cu. yds. Select Material [illegible] (See Work order No. 2984)

Top View Showing area occupied by Old Structure on site of new Structure. This volume is deducted from the Total Structural Excav. for New Structure as shown in preceding Sheets #7



Dry Com. Structural

$\frac{4^{5} \times 7 \times 13}{27}$ = 17.46 Cu. yds.

$\frac{4^{5} \times 3 \times 42}{27}$ = 27.25 Cu. yds.

45.8 Cu. yds. dry Com. Total to be deducted

Wet Com. Structural

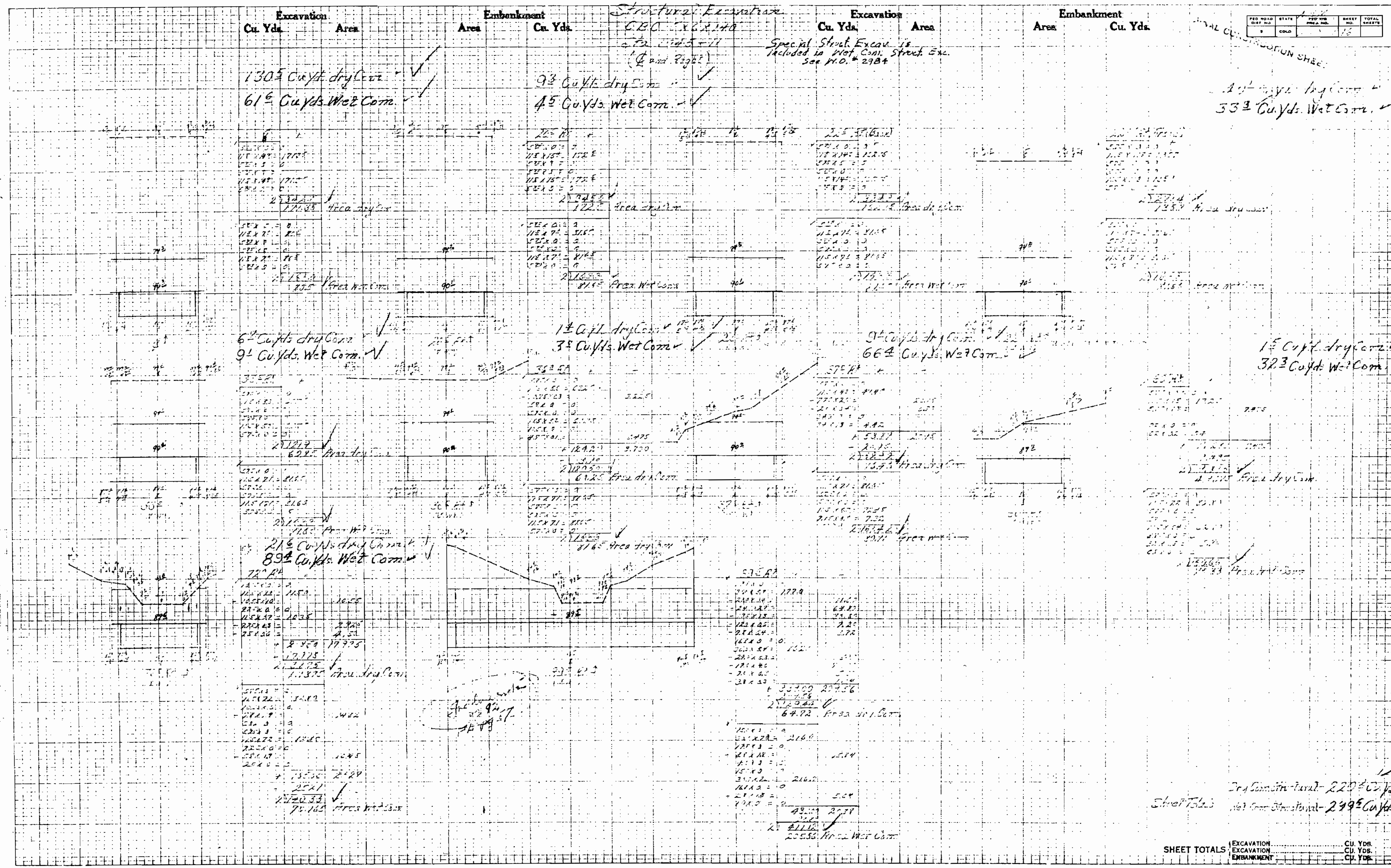
$\frac{2^{5} \times 7 \times 13}{27}$ = 10.27 Cu. yds.

$\frac{2^{5} \times 3 \times 42}{27}$ = 15.4 Cu. yds.

25.4 Cu. yds. Wet Com. Total to be deducted

Summary of Quantities on C.B.C. Sta. 1045+11		
Dry Com. Structural Exc.	345.2	
Minus Volume in old Cul.	45.8	
	299.4	Total dry Com.
Wet Com. Structural Exc.	569.0	
Minus Volume in old Cul.	25.4	
Special structural excav. is included in this	543.6	Total Wet Com.
Gravel Backfill	213.7	Cu. yds. Total

SHEET TOTALS { EXCAVATION .... CU. YDS. / EXCAVATION .... CU. YDS. / EMBANKMENT .... CU. YDS.



Excavation
Cu. Yds.
Area
Embankment
Area
Cu. Yds.
Structural Excavation
Special Struct. Excav. is included in Wet Com. Struct. Exc. See W.O. # 2984
Excavation
Cu. Yds.
Area
Embankment
Area
Cu. Yds.
FINAL CONSTRUCTION SHEET
130.5 Cu.Yd. dry Com.
61.6 Cu.Yds. Wet Com.
9.3 Cu.Yd. dry Com.
4.5 Cu.Yds. Wet Com.
33.3 Cu.Yds. Wet Com.
Area dry Com.
Area Wet Com.
6.2 Cu.Yds. dry Com.
9.1 Cu.Yds. Wet Com.
1.2 Cu.Yd. dry Com.
3.5 Cu.Yds. Wet Com.
9.1 Cu.Yds. dry Com.
66.4 Cu.Yds. Wet Com.
1.5 Cu.Yd. dry Com.
32.3 Cu.Yds. Wet Com.
21.6 Cu.Yds. dry Com.
89.4 Cu.Yds. Wet Com.
Sheet Totals
Dry Com. Structural - 229.5 Cu.Yds.
Wet Com. Structural - 299.5 Cu.Yds.
SHEET TOTALS
EXCAVATION CU. YDS.
EXCAVATION CU. YDS.
EMBANKMENT CU. YDS.

Excavation		Embankment	
Cu. Yds.	Area	Area	Cu. Yds.

Structural Excavation

Excavation		Embankment	
Cu. Yds.	Area	Area	Cu. Yds.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLO.			

FINAL CONSTRUCTION SHEET

9³ Cu. yds. dry Com.

4⁴ Cu. Yds. Wet Com.

20² Cu. Yds. Wet Com.

43⁴ Cu. Yds. dry Com.

33⁸ Cu. Yds. Wet Com.

9² Cu. Yds. dry Com.

14² Cu. Yds. Wet Com.

22⁴ Cu. Yds. Wet Com.

17² Cu. Yds. dry Com.

82⁸ Cu. Yds. Wet Com.

90⁶ Cu. Yds. Wet Com.

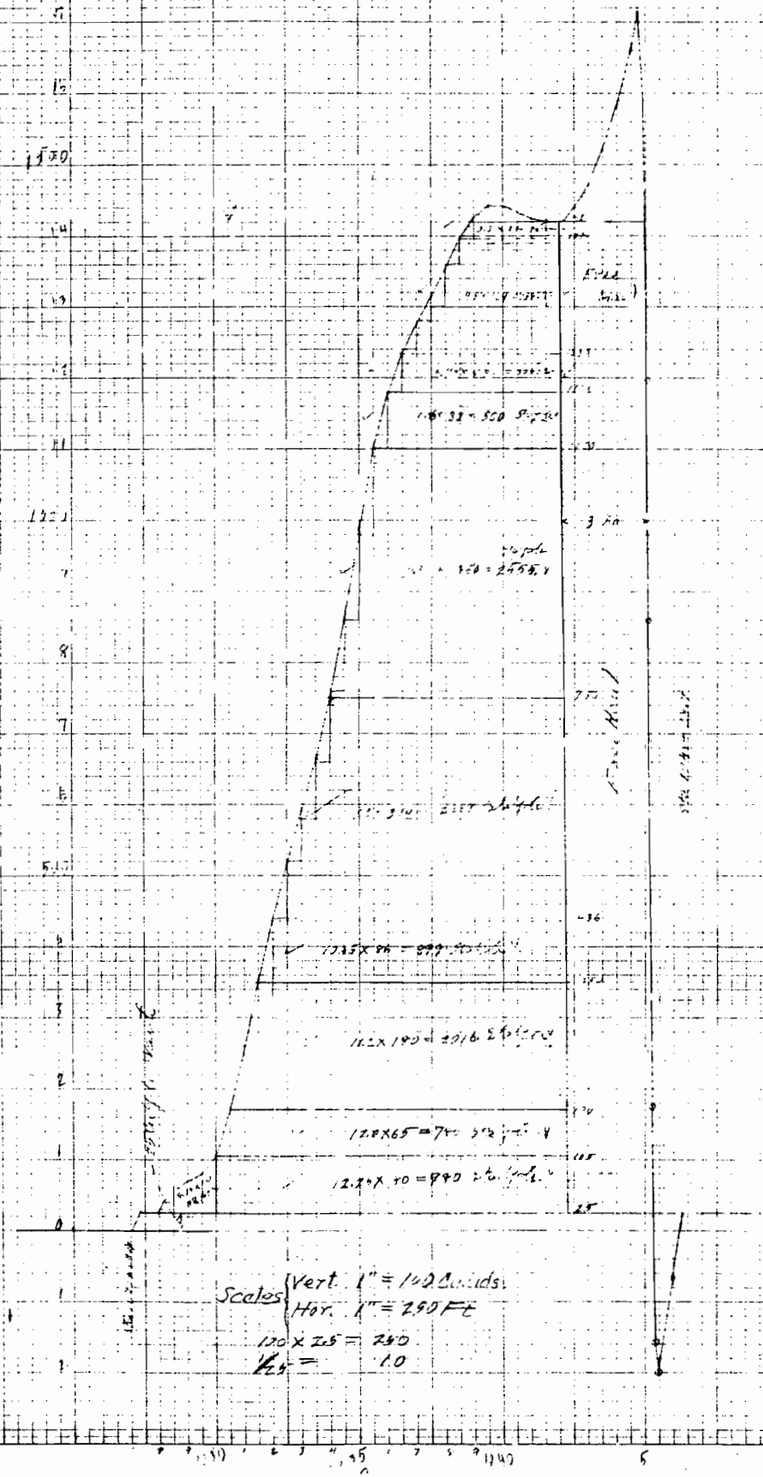
Sheet Totals: Dry Com. Structural = 125⁸ Cu. Yds.
Wet Com. Structural = 263⁴ Cu. Yds.

SHEET TOTALS
EXCAVATION .... CU. YDS.
EXCAVATION .... CU. YDS.
EMBANKMENT .... CU. YDS.

Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.

Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLO.	[illegible]	12	



SHEET TOTALS { EXCAVATION ..... CU. YDS.
EXCAVATION ..... CU. YDS.
EMBANKMENT ..... CU. YDS.

COLORADO STATE HIGHWAY DEPARTMENT
TABULATION OF STRUCTURES AND QUANTITIES

FED. AID PROJ. NO. NRM 260-A SHEET NO. ____ OF ____ SHEETS

FINAL CONSTRUCTION SHEET

BETWEEN [illegible] AND ____ IN [illegible] COUNTY, STATE ROAD NO. 6

PREPARED BY: ____ TITLE: ____ DATE: ____ REV. BY: ____ DATE ____

LOCATION OF STRUCTURE	DESCRIPTION	REMOVE STRUCT.	EXCAVATION CU. YD.	STRUCT. EXCAV.	CONCRETE CU. YDS.	REINF. STEEL	CORRUGATED METAL PIPE LIN. FT.	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	Remove structure [illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	Remove structure [illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	Remove structure [illegible]	1	[illegible]	[illegible]	[illegible]	1365		5.69
[illegible]	Remove structure [illegible]	1	[illegible]	[illegible]	[illegible]	767 70		
[illegible]	[illegible]							
[illegible]	[illegible]		[illegible]		[illegible]	[illegible]		
[illegible]	[illegible]					[illegible]		
TOTALS		45.1		905 5437 5481		20256	140	45 2595

REMARKS:

COLORADO STATE HIGHWAY DEPARTMENT
TABULATION OF STRUCTURES AND QUANTITIES

USPW FED. AID PROJ. NO. NRM 260-A SHEET NO. ____ OF ____ SHEETS

BETWEEN ____ AND ____ IN ____ COUNTY, STATE ROAD NO. ____

PREPARED BY: ____ TITLE: ____ DATE: ____ REV. BY: ____ DATE ____

LOCATION OF STRUCTURE	DESCRIPTION	REMOVE STRUCT. NO.	EXCAVATION CU. YD. UNCL.	STRUCT. EXCAV. CU. YD.	CONCRETE CU. YDS. CLASS A	CONCRETE	REINF. STEEL LBS.	CORRUGATED METAL PIPE LIN. FT.	[illegible]
1030+45	Replace with 12"x10' C.B.C.	1		15	12.5	5260	1365		
	Exc for Ditches		10						
1031+[illegible]	Replace with 12"x12' C.B.C.	1		15	12.5	5260	1365		
1031+24	Ditto		13						
1034+56	Replace with 12"x10' C.B.C.	1		15	12.5	5260	1365		
	Ditto		20						
1034+78	Relay 24" C.M.P. [illegible]								28
1038+50	Replace with 10"x12' C.B.C.	1		15	12.5	5260	1365		
	Exc. [illegible]		10						
1039+15	Replace with 15"x70' [illegible]	1	10	20	10.2		767	70	
1042+41	Ditto	1	10	20	10.2		767	70	
1044+77 to 1045+45	Remove Fence Rt. Lt.								550
"	270' [illegible] guard fence								140
1043+16	Replace with 15" [illegible] C.M.P. & [illegible]	1	10	20	10.2		767	70	
1045+11	6'x6'x140' Conc. Box Cul.	1	148	231	153.0		11542		
		8	228	351	233.6	21,040	19303	210	28 550 140

Pavement Reinforcement

* Struct. excav. [illegible] 50% dry and 50% [illegible]

TOTALS

REMARKS:

BAR LIST FOR 1 - Special 10'x12'x70 Culvert (Montrose)

NOTATION				BENDING DIAGRAM
Mark	Size	No. Reqd	Length	Dimensions to ¢ of Bars
A1	1/2"□	70	3'-9" 2'-5"	1'-0"
A2	1/2"□	18	36'-4"	36'-4"
B1	1/2"□	40 20	5'-2" 6'-0"	5'-?
B2	1/2"□	22	17'-?"	17'-?
C1	1/2"□	4	3'-3" 3'-2"	2'-4"
C2	1/2"□	6	3'-2" 3'-2"	

[illegible]

1570 lin ft 1/2"□ bars @ [illegible] = 1252 lbs

+ [illegible]

Total for One Culvert 1365 lbs

FORM S. H. D. 127 [illegible]

COLORADO STATE HIGHWAY DEPARTMENT
TABULATION OF GRADING QUANTITIES AND PROFILE DATA

U.S. R.W. PROJECT NO. N.S.H. 260-A
SHEET NO. 1
OF ______ SHEETS

PROJECT LOCATED ~~BETWEEN~~ IN City of ~~AND~~ Montrose IN Montrose COUNTY, STATE ROAD NO. 6

LOCATION OF SECTION	EXCAVATION AREA	EXCAVATION CU. YDS.	EMBANKMENT CU. YDS.	SHR. FAC.	BALANCE USED	ALGEBRAIC SUM	MASS DIAGRAM ORDINATE
SHR'T FAC.				0.0			
1027+28							
+31		25.6	—			25.6	25.6
+96		—	—			—	
1028		—	—			—	
+16		2?.4	4.0			15.4	40.0
+33		25.7	13.3			12.4	54.4
Sheet #1	72.5	71.7	[illegible]				
1029		39.6	25.0			14.6	69.0
+50		35.6	25.7			9.9	78.9
1030		44.6	18.3			26.3	105.2
+50		70.0	5.4			64.6	169.8
1031		29.4	4.1			25.3	26?.1
Sheet #2	"	274.2	73.5				
+50		96.5	3.3			93.2	359.3
1032		84.2	?.6			83.6	436.9
+50		86.1	5.6			80.5	51?.4
1033		84.3	8.2			76.1	5?3.5
+??		84.4	12.8			?1.6	[illegible]
Sheet #3	"	439.5	34.5				
1034		16.1	11.1			5.0	750.1
+50		121.9	5.6			116.3	86?.4
+80		77.6	2.0			75.6	942.0
1035		51.3	1.3			50.0	992.0
+??		114.8	3.3			11?.?	1103.1
1036		79.6	3.3			76.3	1179.4
Sheet #4	"	590.2	26.?				
+50		62.6	7.4			55.2	1234.6
1037		50.1	7.4			42.7	1277.3
+50		46.3	9.1			37.2	1314.5
1038		47.4	9.0			38.4	1353.?
+50		48.0	4.3			43.7	1397.6
+9?		24.?	?.?			?.?	1415.4
Sheet #5	"	272.3	42.1				
1039		14.1	4.5			?.?	1426.?
+??		27.5	12.0			1?.5	1442.5
1040		20.?	2?.2			+ 0.7	1443.2
+50		11.0	?.9			- ?.?	1434.?
1041		15.7	25.3			- 9.6	142?.?
Sheet #6		96.2	87.8				
+??		16.4	22.2			- 5.8	1419.0
1042		22.9	21.5			+ 1.4	1420.4
+11		6.5	4.0			2.5	1422.9
+50		25.0	?.?			15.5	1438.4
+75		17.6	2.1			15.5	1454.?
1043		19.7				1?.2	1473.1
+?0		52.2	3.3			48.9	1522.0
Sheet #7		1??.4	63.3				
1044		64.4	4.0			60.4	1582.4
+?2		83.3	4.3			7?.?	1662.?
Sheet #8	"	14?.?	8.3				
+??		52.0	2.7			4?.3	171?.7
+97		43.2	121.4	1.34	163.3	-1??.1	1?90.6
1045		26.7	315.0	"	422.1	-39?.?	1174.?
+??		8.2	2??.3	"	3?3.9	-?96.2	858.0
+25		.4?	521.?	"	691.?	-?86.6	171.4
+4?		18.2	277.0	"	372.5	-33?.?	-162.2
Sheet #9	"	1?9.4	?13.6				
+30		32.6	24.4	"	72.9	-42.3	-204.5
104?		17.8	1.3	"		+1??.4	-70.4
+29.?		??.?	2.0	"		+??.0	+25.6
Sheet #10	"	266.0	57.7				
Grand Total		2450.4	1908.2				
	[illegible]	1?2?.9					
		5??.?					

TOTALS

SURVEY BY ______ DATE ______ NOTE BOOK Nos. ______ REMARKS: ______
GRADES BY ______ DATE ______ CHK. BY ______ DATE ______ QUANTITIES BY ______ DATE ______ CHK. BY ______ DATE ______
AREAS BY ______ DATE ______ CHK. BY ______ DATE ______ MASS DIAG. BY ______ DATE ______ CHK. BY ______ DATE ______
REVISED BY ______ DATE ______ CHK. BY ______ DATE ______ REVISED BY ______ DATE ______ CHK. BY ______ DATE ______