

COLORADO DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED STATE PROJECT NO. C10-0088-04 STATE HIGHWAY NO. 88 ARAPAHOE COUNTY

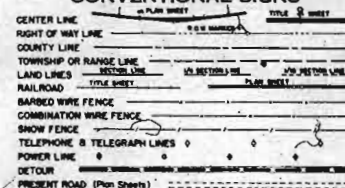
SCALES OF ORIGINAL DRAWINGS

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 = 5387.7 FT = 10.20 MI.
NET LENGTH OF PROJECT

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	C 10-0088-04	1	

Rev Index - 10-28-58 - 6.04

CONVENTIONAL SIGNS



INDEX OF SHEETS

SHEET NO

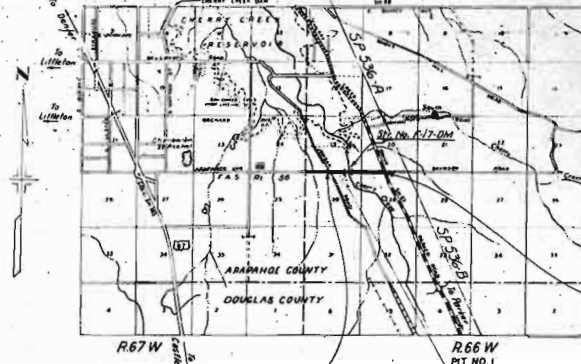
1. Sketch Map, Title Page and Tabulation of Length and Design.
2. Typical Sections and General Notes.
3. Summary of Approximate Quantities & Timber Guard Post Tabulation.
4. Sub-Base Material Plan, Fencing Requirements, Right of Way Markers and Summary of Earthwork Quantities.
5. PI Location Sheet.
6. List of Structures.
7. Details of Bridge Sta 224+.
14. Standard Methods for Super-elevation & Widening of Curves (Crowned Highways): M-1-D
15. Standard Side Approach Roads, Flaring, Cut Slope Treatment & Widening of Bridges and at Crest of Grades.
16. Standard Marker Posts and Bench Marks.
17. Standard Letters & Figures for Rear Numbers and Structure Numbers.
18. Standard Metal Plate Guard Fence (Beam Type).
19. Standard Picket Snow Fence with Steel Posts.
21. Standard Wire Fence with Metal Posts.
22. Standard Roadway Construction Traffic Signs.
24. Standard Methods of Backfill around Structures.
25. Standard Headwalls and Aprons for C.M.P. Culverts.
26. Standard Types of Ditches and Construction Methods.
- 27.20 Alignment Plan & Profile.
- 30.49 Cross Sections.
- 17a Standard Timber Guard Posts.
- 20 Chain Link Wire Mesh (School) Fence.

M-2-EN
M-7-D
M-10-D
M-21-D
M-25-C
M-27-D
M-29-C
M-60-B
M-102-J
M-107-D

M-19-E
M-26-D

TABULATION OF LENGTH & DESIGN

STATION	ROADWAY LIN. FT.	MAJOR STRUCTURE	LOADING
202+00 Begin C-10-0088-04			
208+76.6 Bk.	676.6		
208+76.4 An.			
224+45.0 Begin Bridge	1568.6		
227+96.9 End Bridge		351.9	H-20-S-16-44
235+87.5 End C10-0088-04 19' west of Sta. 603+03.2 S.P. 536-B	2790.6		
TOTALS	5035.8	351.9	
SUMMARY			
		LIN. FT.	MILES
TOTAL C-10-0088-04 ROADWAY		5035.8	0.954
TOTAL C-10-0088-04 STRUCTURE		351.9	0.066
NET & GROSS LENGTH		5387.7	10.20
DESIGN DATA			
MAXIMUM GRADE		4.76 %	
MAXIMUM DEGREE OF CURVE		150'	
MINIMUM R.S.D. HORIZONTAL		>1300'	
MINIMUM H.P.S.D. VERTICAL		365'	
MAXIMUM DESIGN SPEED		50 M.P.H.	



Sta 202+00 Begin C10-0088-04

SCALE OF MILES
0 1/2 1

NOTE:
SEE SPECIAL PROVISIONS FOR
NOTICE TO BIDDERS.

Sta 255+07.5 End C10-0088-04 =
19' West of Sta. 603+03.2 S.P. 536-B

COLORADO DEPARTMENT OF HIGHWAYS	
APPROVED	DATE
<i>[Signature]</i> CHIEF ENGINEER	10-18-58

Rev. - Added Tim Guard Post Tab - 10-20-36

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	ITEM	UNIT	ROADWAY	BRIDGE STA 224	PROJECT TOTALS
10	Clearing and Grubbing Entire Project	Lump Sum	•		•
11	Reset Mail Boxes	Lump Sum	•		•
11	Adjust Manhole Ring and Cover	Each	1		1
11	Removing Right-of-Way Markers	Each	1		1
12	Removing Fence	Lin. Ft.	9700		9700
13	Unclassified Excavation	Cu Yd.	33600	4400	38000
13	Unclassified Ditch Excavation	Cu Yd.	300		300
13	Stripping	Cu Yd.	300		300
14	Unclassified Structural Excavation - Miscellaneous	Cu Yd.	260		260
14	Unclassified Structural Excavation - Bridges	Cu Yd.		326	326
16	Structure Backfill (Class 1)	Cu Yd.	180	200	380
17	Compaction (Standard)	Cu Yd.	44000		44000
17	Welling	M Gal.	2100		2100
18	Station Yard Overhaul	Sta Yd.	143300	1700	145000
18	Yard Mile Overhaul	Yd. Mi.	2300		2300
18	Ton Mile Overhaul	Ton Mi.	32000		32000
23	Sub-Base Material (Class 3)	Ton	22900		22900
30	Asphaltic Road Material R.C. (Prime)	Gal.		200	200
32	Plant Mixed Asphaltic Surfacing	Ton		140	140
42	Treated Bridge Timber	M ft dm		04	04
46	Class "A" Concrete	Cu Yd.		870	870
47	Reinforcing Steel	Lb.		183800	183800
48	Structural Steel	Lb.		30200	30200
53	18" Corrugated Metal Culvert Pipe (Nestable)	Lin. Ft.	306		306
53	18" Corrugated Metal Culvert Pipe	Lin. Ft.	130		130
53	24" Corrugated Metal Culvert Pipe	Lin. Ft.	243		243
60	Treated Timber Piling	Lin. Ft.		4256	4256
65	Concrete Slope and Ditch Paving	Cu Yd.		37	37
75	Metal Plate Guard Fence (Beam Type)	Lin. Ft.		50	50
75	Metal Plate Guard Rail (Beam Type)	Lin. Ft.		683	683
76	Barbed Wire Fence with Metal Posts	Lin. Ft.	10700		10700
76	Barbed Wire Gates	Each	13		13
76	Walk Gates	Each	1		1
77	Picket Snow Fence	Lin. Ft.	700		700
78	Chain Link Wire Mesh Fence	Lin. Ft.	400		400
78	Double Driveway Gates	Each	1		1
80	Sheet Copper	Lb.		16	16
81	Right of Way Markers	Each	6		6
89	Drain Pipe (4" x 1'-6") (Concrete Floor)	Each		12	12
90	1 1/2" Electrical Conduit with Junction Boxes	Lin. Ft.		362	362
95	24" Metal Aprons for Corrugated Metal Pipe Culverts	Each	10		10
92	Timber Guard Posts	Each	50		50
STATE FORCES					
81	Project Markers	Each	2		2
	Signing Entire Project	Lump Sum	•		•
FORCE ACCOUNT					
	Relocate Telephone Line (Work by Interstate Gas Co. Forces)	Lump Sum	•		•
	Relocate Gas Line (Work by Public Service Co. Forces)	Lump Sum	•		•
	Relocate Power Line (Work by Colo. Central Power Co. Forces)	Lump Sum	•		•
	Relocate Power Line (Work by Inter. Mtn. R.E.A. Forces)	Lump Sum	•		•
	Relocate Telephone Line (Work by M.S.T. Co. Forces)	Lump Sum	•		•
	Adjust Water Lines & Appurtenances (Work by Aurora Water Co. Forces)	Lump Sum	•		•
	Right of Way Entire Project	Lump Sum	•		•

TABULATION OF TIMBER GUARD POSTS

STATION	SIDE	SPACING	No.
203+00	Rt. Lt.	Road Approach	4
204+00	Rt. Lt.	Culvert	2
206+00	Lt.	Road Approach	2
210+00	Rt. Lt.	Culvert	2
217+10 224+	Rt. Lt.	100 ft	16
229+10 232+	Rt. Lt.	311 ft, 1 Rt.	4
228+	Rt.	Road Approach	2
232+20	Rt. Lt.	Road Approach	4
239+12	Rt. Lt.	Culvert	2
251+00	Lt.	Road Approach	2
252+06	Rt. Lt.	Culvert	2
253+22	Rt.	Road Approach	2
254+70	Lt.	Road Approach	2
255+25	Rt.	Road Approach	2
255+73	Rt. Lt.	Culvert	2
255+875	Rt. Lt.	Intersection	6
TOTAL			56

SUMMARY OF EARTHWORK QUANTITIES

EXCAVATION	
*From Cross Sections	24,141 Cu Yds
*Barrow	4328
*Estimate for Subsidence	2847
List of Structures as Excavation	1180
*List of Structures as Embankment	560
*Estimate of Cut Slope Treatment	288
*Estimate for Covering Ends of Culverts	40
TOTAL	33,344 Cu Yds.
EMBANKMENT	
From Cross Sections	21,899 Cu Yds.
EMBANKMENT x FACTOR	28,469 Cu Yds.
STATION YARD OVERHAUL	
From Mass Diagram	128,251 Sta Yd
Estimate for Subsidence	12,825
Estimate for Structure Backfill	1,956
TOTAL	143,032 Sta Yd.
YARD MILE OVERHAUL	
From Mass Diagram	1997 Yd. Mi.
Estimate for Subsidence	200
Estimate for Structure Backfill	7
TOTAL	2204 Yd. Mi.
COMPACTION	
*From Unclassified Excavation	31,916 Cu Yds.
Base of Cuts and Fills	11,944
TOTAL	43,860 Cu Yds.
UNCLASSIFIED DITCH EXCAVATION	
From List of Structures	470 Cu Yds.

- *Chain Link Wire Mesh (School) Fence to be constructed as per Standard M-26-D except Posts shall be long enough to accommodate 2 strands of Barbed Wire as shown below. Barbed Wire will conform to Item 76, and shall be included in the price bid for Item 78 complete in place.



SUB-BASE MATERIAL PLAN

STATIONS	SOURCE & AVAILABLE	SUB BASE CLASS 3		TON MILE OVERHAUL
		THICKNESS	YDS	
202+00 to 211+00	18,000+ Cu Yds.	9"	1908	525
211+00 to 216+00		5"	675	96
216+00 to 224+00		5"	1080	184
224+00 to 224+450	FIT NO. 1	9"	95	1
227+96.9 to 238+00	500' R.I.	9"	2127	885
238+00 to 255+87.5	Sta. 216+00	5"	2413	1643
	R=70'			
Estimated for:				
Approach to Project Sta. 202', Approximately 3 1/4 Miles.		4"	13,270	28,076
From List of Structures			425	159
Irregularities in Sub-grade			830	333
TOTALS			22,823	31,902

Based on Design Curve E

It is estimated that Sub-Base Material for the Project is available in the vicinity of the Pit indicated in the above tabulation. Estimated quantity involved in this operation is shown above. Alteration of this plan as here outlined will be allowed only on written permission of the Department.

RIGHT OF WAY MARKERS

STATION	SIDE	NUMBER	REMOVE
		EACH	EACH
PT. 208+76.6 BA (Proj)	Lt. and Rt.	2	
236+00	Lt. and Rt.	2	
252+00	Lt. and Rt.	2	
255+	Lt.		1
TOTALS		6	1

FENCING REQUIREMENTS

STATIONS	SIDE	REMOVE FENCE	CHAIN LINK WIRE MESH	BUILD B.W. FENCE	BUILD SNOW FENCE	W/2 GATES	B.W. GATES
		LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH
198+00 to 202+90	Rt.	490					
202+50		100					
204+60 to 214+80	Lt.	1020					
204+65		60					
204+75 to 213+75	Rt.	900					
215+10 to 228+15	Lt.	1305					
215+35		80					
219+20		75					
227+70		85					
228+40		70					
228+40 to 231+90	Lt.	350					
230+55		70					
230+							
230+75 to 231+25	Lt. (Pumphouse)	45	400				
230+80		25					
232+25		25					
232+25 to 252+65	Rt.	2040					
232+40 to 255+60	Lt.	2320					
234+60		50					
235+25		55					
242+65		55					
243+65		60					
252+65 to 253+10	Rt.	45					
252+70		60					
253+50 to 254+75	Rt.	125					
255+60		140					
198+00 to 201+95	Lt.			440			
202+65 to 224+45	Lt.			2190			
206+00					700		
209+50 to 216+50	Lt.						
227+97 to 255+00	Lt.			2760			
232+20							
251+00							
254+70							
198+00 to 203+00	Rt.			500			
204+20 to 224+45	Rt.			2095			
227+97 to 254+80	Rt.			2715			
228+00							
232+00	Rt.						
234+89	Rt.						
234+96	Rt.						
243+16	Rt.						
243+47	Rt.						
252+50	Rt.						
253+12	Rt.						
254+73	Rt.						
TOTALS		9625	400	10,660	700	1	15

LIST OF STRUCTURES

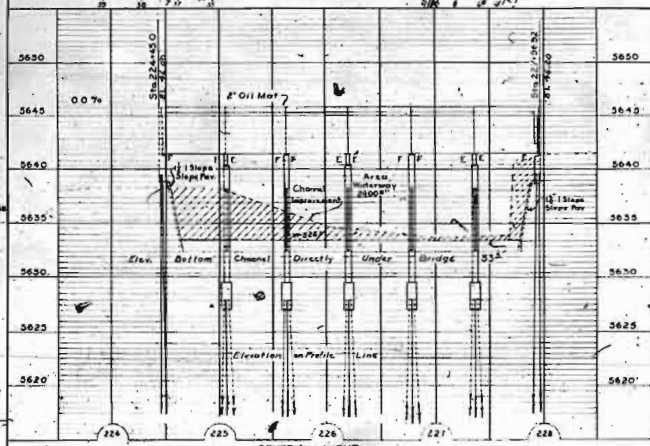
COLORADO STATE HIGHWAY DEPARTMENT
1015 P. Box 108
DENVER, CO 80202

FOR ROAD SECTION NO.	DIVISION	PROJECT NO.	SHEET	DATE
1	COLD.	C-10-0088-04	6	

LOCATION	DESCRIPTION	REMOVE STRUCTURE CUBIC YARDS	EXCAVATION CUBIC YARDS	UNCLASSIFIED STRUCTURAL EXCAVATION (MISCELLANEOUS) CUBIC YARDS	STRUCTURE BACKFILL CUBIC YARDS	SUB BASE TONS	CONCRETE CUBIC YARDS	REINFORCING STEEL LBS.	CORRUGATED METAL CULVERT PIPE (15" x 15") LBS.	CORRUGATED METAL CULVERT PIPE LINEAR FEET	METAL SPRINGS FOR C.M.P. CULVERTS NO.	MISCELLANEOUS
202+												
202+00			85			135						
203+00				25	30	13				58	2	1-Project Marker (Placed by State Forces)
204+00												
206+00			35			29						
210+00				20	380	25	12			58	2	
217+ to 219+			950									
220+ to 221+			100									
222+50			450			36						
224+450 to 227+96.9			QUANTITIES	IN	SUMMARY							
228+			45		5	5				26		
228+00					95	27			100			
228+75					65	19			126			
232+20			10		5	5				26		
233+12				5	5	7				28" x 18" 2-1/2"	2	
244+ to 262+				60								
251+00			5		5	5				26		
252+86					5	8				20" x 18" 18" x 18"	2+	
253+22				20	5	5				26		
254+70			5		5	5				26		
255+25			5									1-Adjust Manhole Ring & Cover
255+73					5	11				54" x 18"	2	
255+87.5				10								
255+												1-Project Marker (Placed by State Forces)
TOTALS			1180	560	470	255	122		425	306	130	243

• Quantities in Sub-Base Plan.
▲ Allowance for Connecting Band.

Designed By		
Checked By		
Drawn By		
Checked By		
Traced By	PJB	6-28-58



- ① Includes 20 ft of approach of each Abut
- ② Includes 49.20 ft of ground rail posts
- ③ Expansion Joint Material shall be in accordance to AASHTO Spec M 153 and kind of the type shown and shall be included in the Bid Price per 1000 lbs.

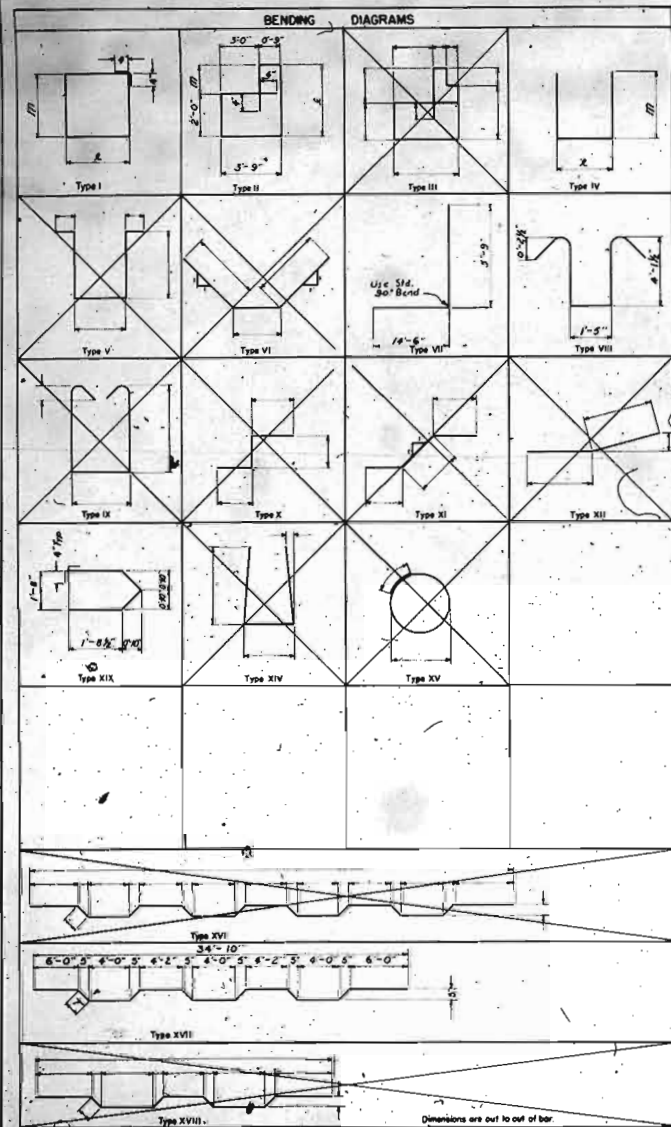
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AASHO WHE SHOT SPREAD, EXCEPT AS NOTED
 Sampling Shot to 20000 lbs. per sq. in.
 Structural Shot to 20000 lbs. per sq. in.
 to 10000 lbs. per sq. in.
 to 5000 lbs.

Across Cherry Creek
Sta. 114+80 to 127+50.00
Near Littleton Sta. 80 T.13 S. R. 101 E.

Designed by	Approved by J. P. Anderson
Made by	Bridge Engineer
Checked by	Date: 10-1-1971

STRUCTURE NO. F-17-DM



BAR LIST SUPERSTRUCTURE

Mark	Size	No. Reqd	Length	Type	Dimensions
					A M
401	5/8	402	40'-0"	Sfr	
402		402	19'-0"	Sfr	
403		224	3'-10"	I	0-6" 1'-1"
404		700	4'-2"	IX	1'-8" 1'-5"
405		1260	10'-5"	XXII	
406		288	8'-7"	I	0'-5" 3'-6"
407	5/8	36	7'-11"	I	0'-5" 3'-2"
433	5/8	14	3'-0"	Sfr	
501	5/8	584	34'-10"	Sfr	
502	5/8	264	35'-10"	XXII	
503	5/8	72	27'-6"	Sfr	
602	5/8	8	0'-5"	IX	1'-3" 5'-2"
1101	1 1/2	120	37'-9"	Sfr	
1103		72	55'-4"	I	
1104		48	45'-9"	I	
1105		72	39'-0"	I	
1106		48	24'-6"	Sfr	
1107	1 1/2	16	18'-3"	XXI	

BAR SUMMARY

44602 Lin Ft 5/8 @ 0.6687/Lin Ft = 29,834 Lb
 31783 Lin Ft 5/8 @ 1.0457/Lin Ft = 33,150 Lb
 17550 Lin Ft 1 1/2 @ 5.3137/Lin Ft = 92,181 Lb
 87 Lin Ft 5/8 @ 1.5027/Lin Ft = 130 Lb
 +1% For Overrun = 1554 Lb
Total = 156,220 Lb

BAR LIST ABUTMENT (ABUTMENT No 7 Similar)

Mark	Size	No. Reqd	Length	Type	Dimensions
					A M
420	5/8	16	19'-6"	II	5'-3" 3'-2"
421		16	23'-10"	II	5'-10" 3'-10"
422		16	15'-2"	I	5'-6"
423		16	14'-6"	I	7'-2" 0'-5"
424		16	14'-6"	I	7'-2" 0'-5"
425		16	14'-6"	I	7'-2" 0'-5"
426		16	14'-6"	I	7'-2" 0'-5"
427		16	14'-6"	I	7'-2" 0'-5"
428		16	14'-6"	I	7'-2" 0'-5"
429		16	14'-6"	I	7'-2" 0'-5"
430		16	14'-6"	I	7'-2" 0'-5"
431		16	14'-6"	I	7'-2" 0'-5"
432	5/8	6	3'-0"	Sfr	
510	5/8	2	35'-8"	Sfr	
701	5/8	14	35'-8"	Sfr	

BAR SUMMARY

1104 Lin Ft 5/8 @ 0.6687/Lin Ft = 791 Lb
 71 Lin Ft 5/8 @ 1.0457/Lin Ft = 74 Lb
 499 Lin Ft 5/8 @ 1.0457/Lin Ft = 1020 Lb
 +1% For Overrun = 20 Lb
Total = 1905 Lb

BAR LIST PIER No 2 (PIER No 4 Similar)

Mark	Size	No. Reqd	Length	Type	Dimensions
					A M
410	5/8	10	20'-0"	Sfr	
411		17	14'-6"	IX	0'-9" 6'-10"
412		108	9'-11"	I	1'-10" 2'-5"
413		11	11'-8"	I	2'-9" 3'-8"
414	5/8	8	7'-4"	I	1'-8" 1'-8"
415	5/8	8	7'-4"	I	1'-8" 1'-8"
416	5/8	8	7'-4"	I	1'-8" 1'-8"
501	5/8	24	4'-6"	Sfr	
502	5/8	24	7'-8"	Sfr	
901	1 1/2	2	20'-0"	Sfr	
902	1 1/2	27	12'-5"	Sfr	
1001	1 1/2	6	35'-8"	Sfr	
1002	1 1/2	2	19'-2"	Sfr	
1003	1 1/2	10	11'-0"	Sfr	

BAR SUMMARY

1726 Lin Ft 5/8 @ 0.6687/Lin Ft = 1146 Lb
 388 Lin Ft 5/8 @ 1.5027/Lin Ft = 583 Lb
 375 Lin Ft 1 1/2 @ 3.4007/Lin Ft = 1275 Lb
 350 Lin Ft 1 1/2 @ 3.4007/Lin Ft = 1506 Lb
 +1% For Overrun = 45 Lb
Total = 4575 Lb

BAR LIST PIER No 3 (PIER No 5 Similar)

Mark	Size	No. Reqd	Length	Type	Dimensions
					A M
410	5/8	12	20'-0"	Sfr	
412		108	9'-11"	I	1'-10" 2'-5"
413		11	11'-8"	I	2'-9" 3'-8"
414		9	7'-4"	I	1'-8" 1'-8"
415		17	14'-6"	IX	0'-9" 6'-10"
416	5/8	8	7'-4"	I	1'-8" 1'-8"
601	5/8	24	4'-6"	Sfr	
602	5/8	24	7'-8"	Sfr	
901	1 1/2	2	20'-0"	Sfr	
903	1 1/2	27	13'-4"	Sfr	
1001	1 1/2	6	35'-8"	Sfr	
1002	1 1/2	2	19'-2"	Sfr	
1003	1 1/2	10	11'-0"	Sfr	

BAR SUMMARY

1832 Lin Ft 5/8 @ 0.6687/Lin Ft = 1234 Lb
 388 Lin Ft 5/8 @ 1.5027/Lin Ft = 583 Lb
 400 Lin Ft 1 1/2 @ 3.4007/Lin Ft = 1360 Lb
 350 Lin Ft 1 1/2 @ 3.4007/Lin Ft = 1506 Lb
 +1% For Overrun = 97 Lb
Total = 4720 Lb

351-11

SS SPACES @ 6'-3" 3-43'-9" METAL PLATE GUARD RAIL

39'-6" SPAN NO. 1

50'-2 1/2" SPAN NO. 2 3'-6" S

2'-403 AT EACH POST

2'-401

2'-402

2'-403

2'-404

2'-405

2'-406

2'-407

2'-408

2'-409

2'-410

2'-411

2'-412

2'-413

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2'-583

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2'-736

2'-737

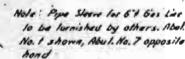
2'-738

2'-739

2'-

1000

JUN 18 1962



SECTION "A-A"



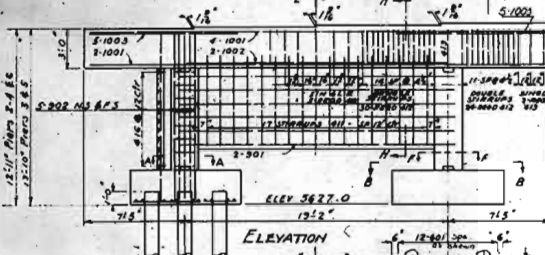
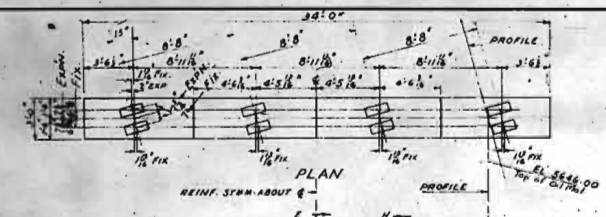
DIMENSIONS SHOWN ALLOW FOR DEAD LOAD DEFLECTION

STRUCTURE NO. F-17-DM

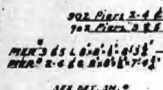
TON 18 562



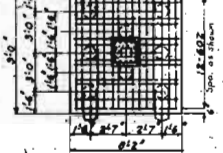
NO.	DIVISION	PROJECT NO.	DATE
9	ROAD	C.10-0000-04	11



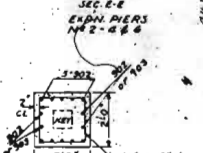
ALL PIER & T.P. PILES 40\"/>



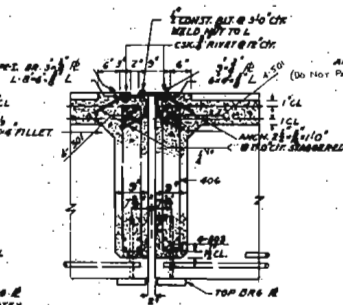
SECT. A-A



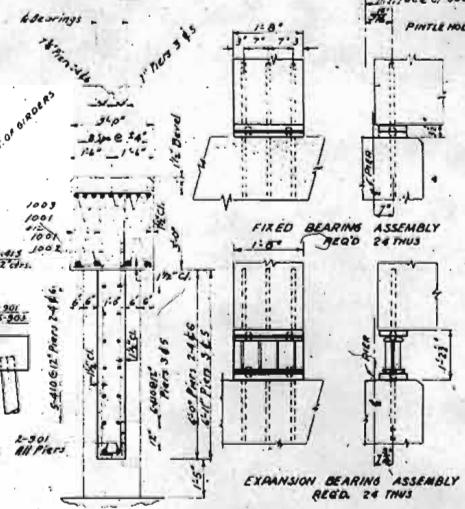
SECT. B-B



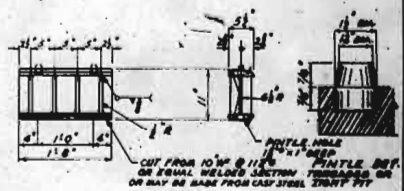
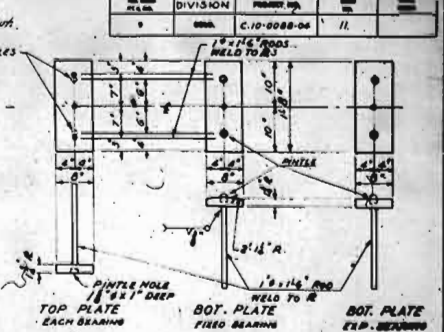
SECT. F-F



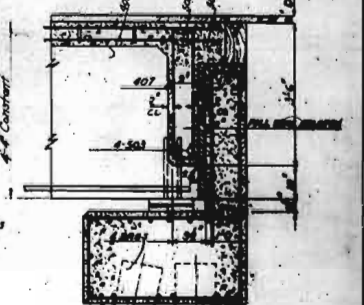
RDNY EXPANSION DEVICE
EXP. BEARING
PIERS 11/2-4-6-6



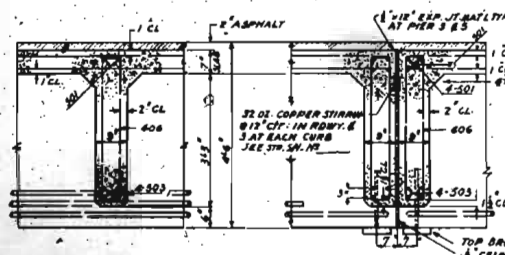
SECTION 'H-H'



CUT FROM 10\"/>

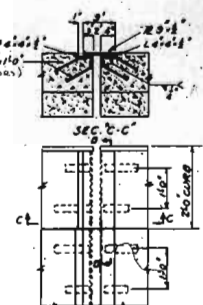


ABUT. 7 & 1 (SEE DETAILS ON SP. 10)

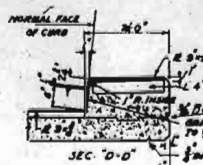


INTERMEDIATE DIAPHRAGM

TYP. END DIAPHRAGM
FIXED BEARING
PIERS 11/2-4-6-6



PLAN
CURB EXP. DEVICE
AT PIER 2-4-6-6



SEC. 'D-D'

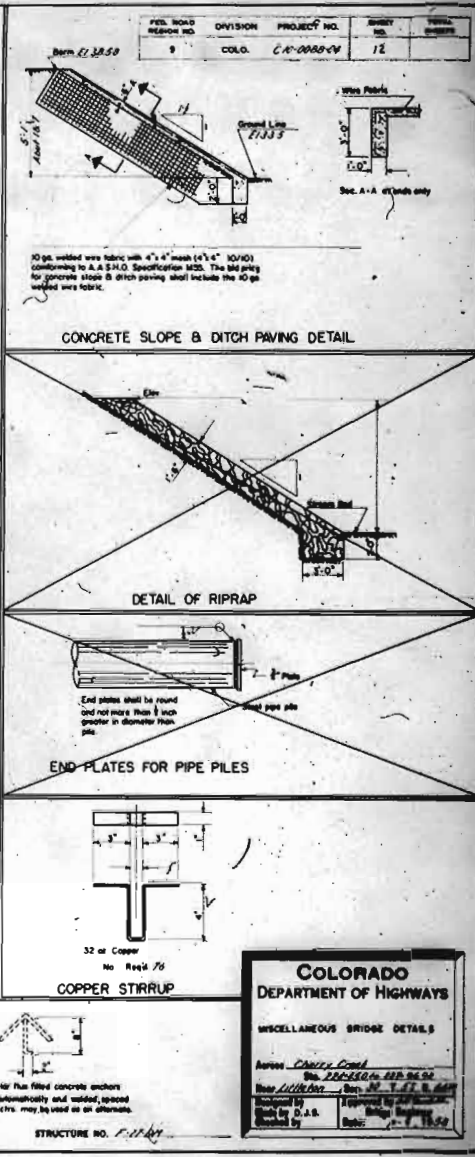
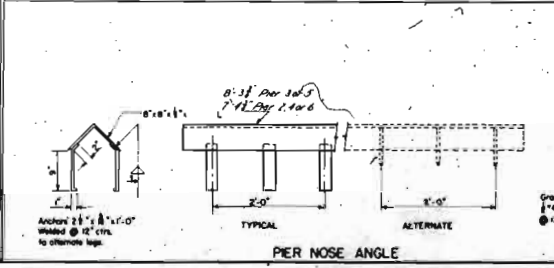
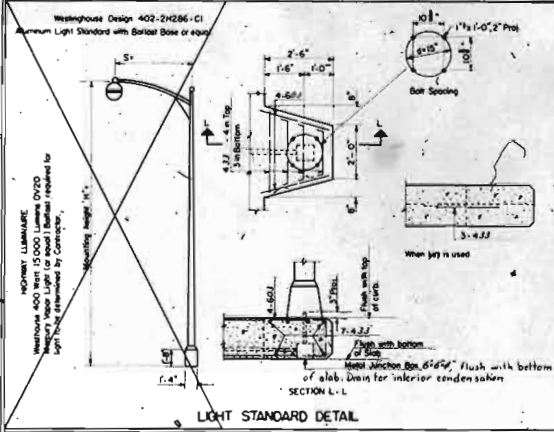
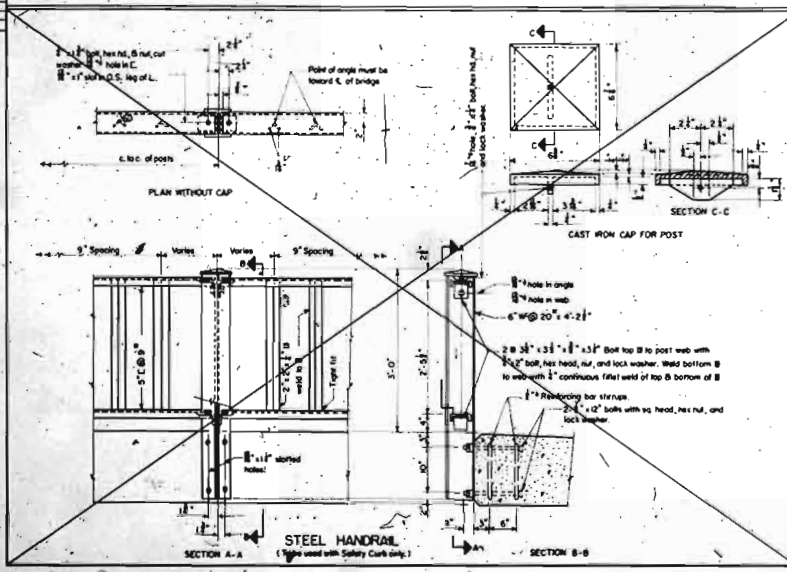
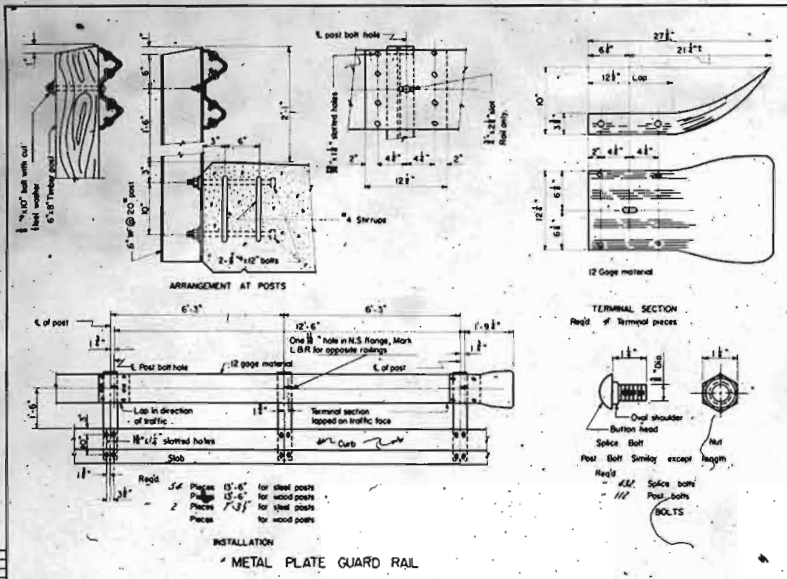
COLORADO
DEPARTMENT OF HIGHWAYS
DETAILS
PIERS, DIAPHRAGMS AND
BEARING ASSEMBLIES
CHERRY CANYON
BRIDGE
CONSTRUCTION
No. 11-11-11
Approved by J. H. [Signature]
Checked by J. H. [Signature]
Date 11-11-11

BRIDGE TRACING
SHEETS - PLAN

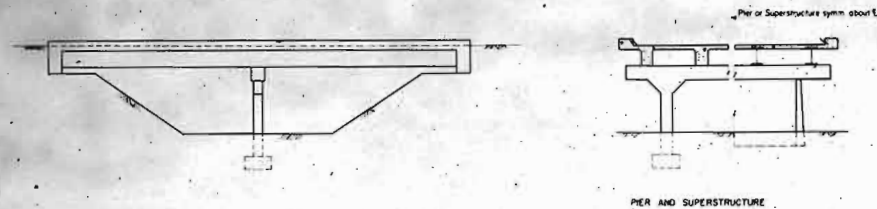
REVISIONS

5-11-50

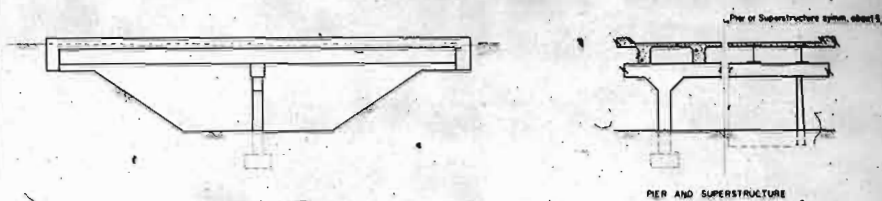
51



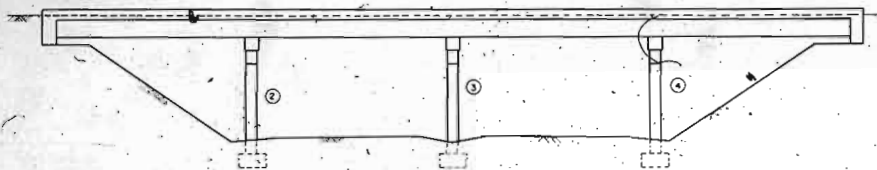
FED. ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	CE-2000-24	13	



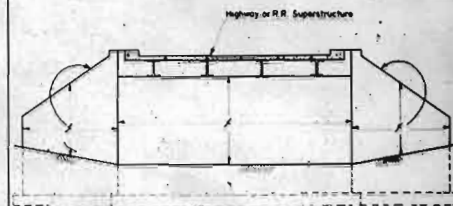
RURAL STREAM CROSSING



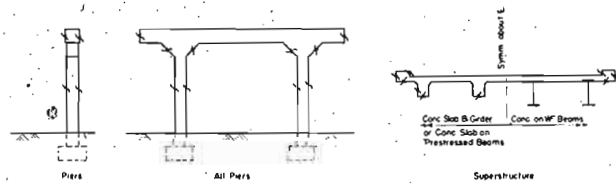
URBAN STREAM CROSSING OR NEAR URBAN AREA



STUB ABUTMENTS
(Underpass Only)



CANTILEVER ABUTMENTS
(Underpass Only)



In case of round columns the whole column shall receive Class "B" finish on all Piers

UNDERPASS

COLORADO
DEPARTMENT OF HIGHWAYS
DETAILS SHOWING PORTIONS OF
STRUCTURE TO RECEIVE CLASS
"B" SURFACE FINISH.

Address: Cherry Creek
Sta. 200+00 to 200+50
New Addition Dec. 29, 1952 B. G. D. V.
Designed by J. L. N. Approved by J. L. N.
Made by J. L. N. Checked by J. L. N.
Date: Dec. 29, 1952

STRUCTURE NO. 1-11-24

S.W. 1/4, Sec. 19, T.5S, R.66W.

Notes:

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

Soil Data shown on the Plans is obtained from best available testing laboratory information. This information is shown for convenience of the Contractor and the Department does not guarantee the accuracy of these data. If Materials 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.

ROW from Survey Line

Golf Course

100' MAG	DIVISION	PROJECT NO.	SHEET NO.
100'	COLO.	C10-0088-04	27

2021 - Reg'd Approach to Project (Approximately 3.5 Miles to U.S. 87)

203+00 - Reg'd Road Approach, Rt. 111

206+00 - Reg'd Road Approach, Lt.

(Projected)
4.3' 23' RT
0.1' 00"
T-163.2
L-300.3
R-5730.0
S-0.025 H/H
Tens Length 1100'
M.D.S. = 70 M.P.H.
Hor. S.D. = 1300'

210+00 - Reg'd 24" x 28" Cross Culvert Ditch, Rt.

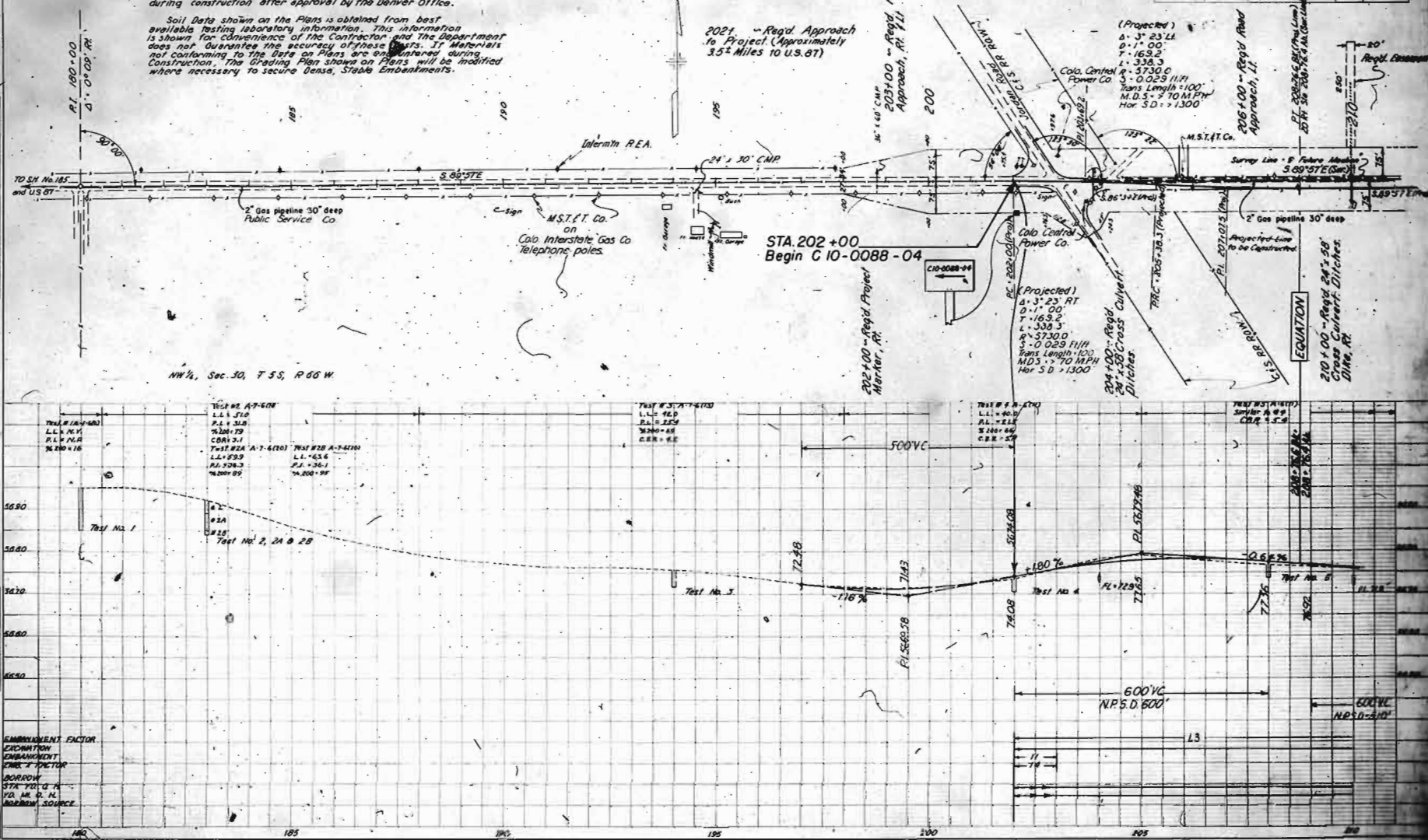
STA. 202+00
Begin C10-0088-04

202+00 - Reg'd Project Marker, Rt.

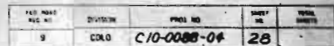
NW 1/4, Sec. 30, T.5S, R.66W

PLAN
C10-0088-04
2025.56

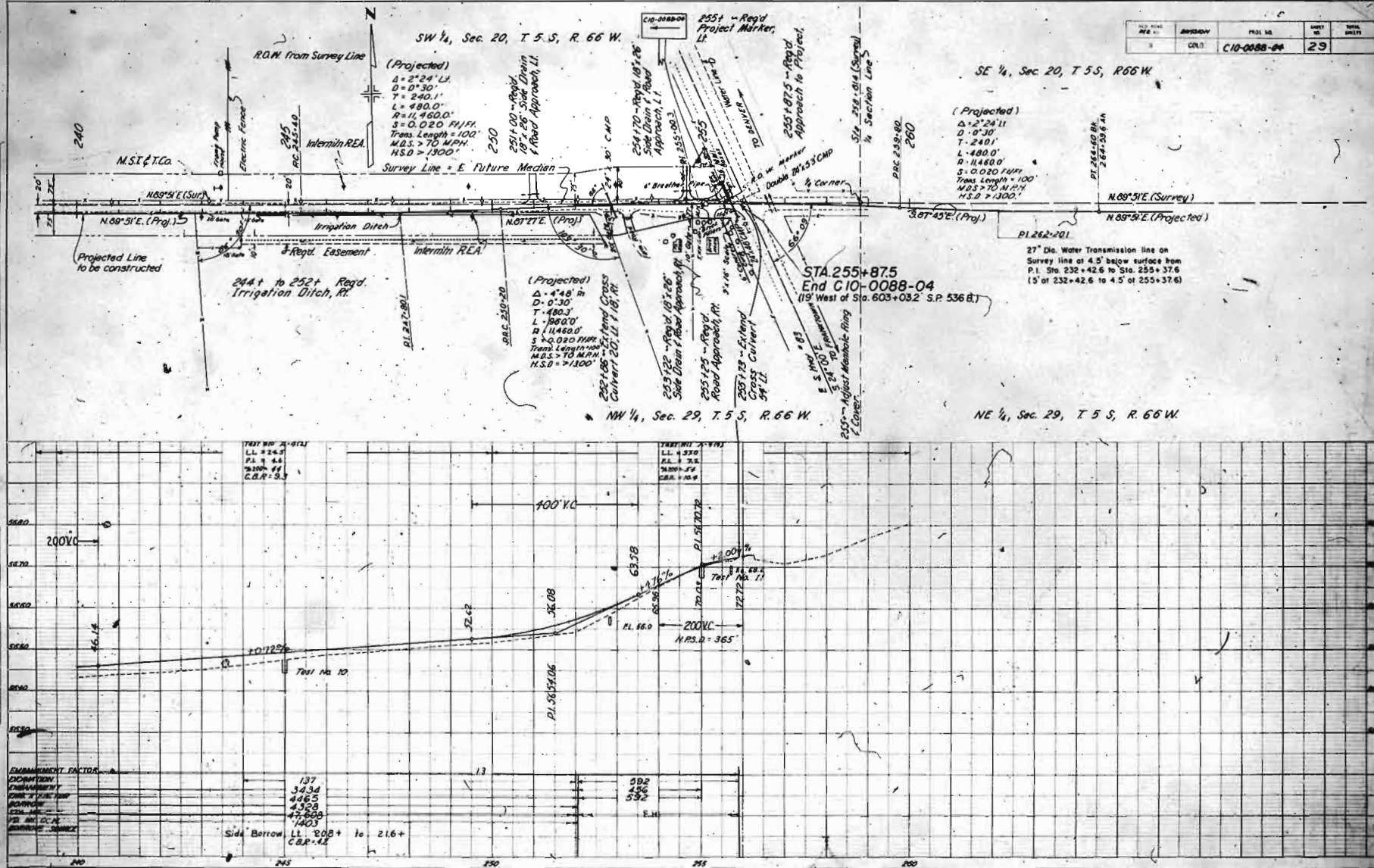
PROFILE
C10-0088-04
2025.56



EMBANKMENT FACTOR
EXCAVATION
SUBGRADE
FILL
BORROW
STA. 202+00
NO. 10, 2, 14
BORROW SOURCE



PROFILE	WIFE BOB	REPORTED PLUTED CAREER EMPLOYED IN N. NUTTER INSTITUTE OF MATHEMATICS	DATE 11/11/11
---------	----------	---	------------------





INDEX OF SHEETS

SHEET NO.

1. Sketch Map, Title Page and Tabulation of Length and Design.
2. Typical Sections and General Notes.
3. Summary of Approximate Quantities & Timber Guard Post Tabulation.
4. Sub-Base Material Plan, Fencing Requirements, Right of Way Markers and Summary of Earthwork Quantities.
5. PVI Location Sheet.
6. List of Structures.
7. Details of Bridge. Sta 224+.
8. Standard Methods for Super-elevation & Widening of Curves (Crowned Highways).
9. Standard Side Approach Roads, Flaring, Cut Slope Treatment & Widening of Bridges and at Crest of Grades.
10. Standard Marker Posts and Bench Marks.
11. Standard Letters & Figures for Year Numbers and Structure Numbers.
12. Standard Metal Plate Guard Fence (Beam Type).
13. Standard Picket Snow Fence with Steel Posts.
14. Standard Wire Fencing with Metal Posts.
15. Standard Roadway Construction Traffic Signs.
16. Standard Methods of Backfill around Structures.
17. Standard Headwalls and Aprons for C.M.P. Culverts.
18. Standard Types of Ditches and Construction Methods.
19. Standard Alignment Plan & Profile.
20. Standard Timber Guard Posts.
21. Chain Link Wire Mesh (School) Fence.

M-1-D

M-2-EN

M-7-D

M-10-D

M-21-D

M-25-C

M-27-D

M-29-C

M-60-B

M-102-J

M-107-D

M-19-E

M-26-D

COLORADO DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

STATE PROJECT NO. C-10-0088-04

STATE HIGHWAY NO. 88

ARAPAHOE COUNTY

AS CONSTRUCTED

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 5.98717 MI. = 10.020 MI.
NET LENGTH OF PROJECT

FEDERAL ROAD DISTRICT NO.	SECTION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	C-10-0088-04		

Rev Index - 10-26-58 - G.R.I.

CONVENTIONAL SIGNS



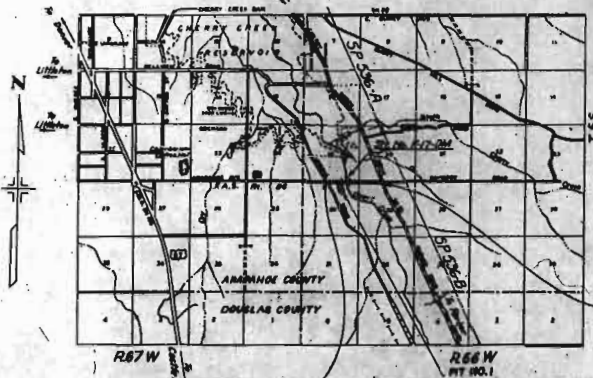
PAID CONSTRUCTION SHEET

LEON K. SUHM INC. - CONTRACTOR

COMPLETED JUNE 27, 1959

TABULATION OF LENGTH & DESIGN

STATION	ROADWAY LIN. FT.	MAJOR STRUCTURE	LOADING
202+00 Begin C-10-0088-04			
206+76.6 Bn. "	676.6		
206+76.4 Ab. "			
224+40.0 Begin Bridge		351.9	H-20-S-16-44
227+96.9 End Bridge	1568.6		
	2790.6		
255+67.5 End C-10-0088-04 19' west of Sta. 603+03.2 SP 536-B			
TOTALS	5036.6	351.9	
SUMMARY			
	LIN. FT.	MILES	
TOTAL C-10-0088-04 ROADWAY	5036.6	0.954	
TOTAL C-10-0088-04 STRUCTURE	351.9	0.068	
NET & GROSS LENGTH	5388.7	1.020	
DESIGN DATA			
MAXIMUM GRADE	4.75 %		
MAXIMUM DEGREE OF CURVE	120°		
MINIMUM H.P.S.D. HORIZONTAL	>1500'		
MINIMUM H.P.S.D. VERTICAL	365'		
MAXIMUM DESIGN SPEED	50 M.P.H.		



Sta 202+00 Begin C-10-0088-04

SCALE OF MILES



NOTE:
SEE SPECIAL PROVISIONS FOR
NOTICE TO BIDDERS.

COLORADO DEPARTMENT OF HIGHWAYS	
APPROVED:	DATE
<i>[Signature]</i>	10-18-59

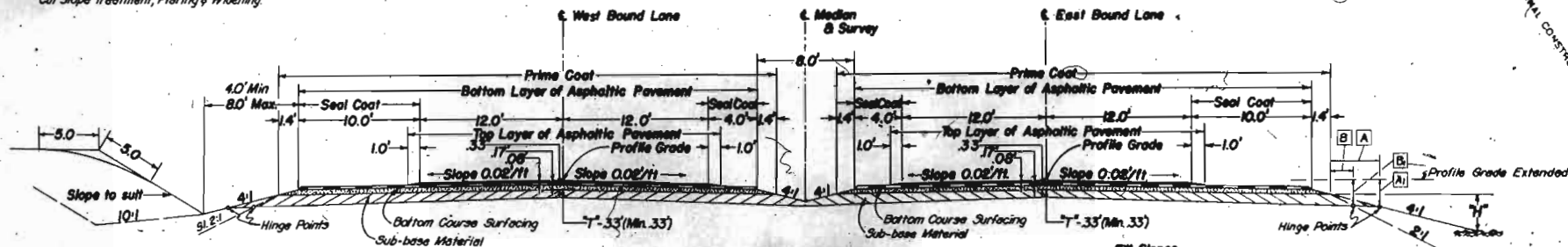
Sta 255+67.5 End C-10-0088-04 =
19' West of Sta. 603+03.2 SP 536-B



TYPICAL CROSS SECTION OF IMPROVEMENT

PROJECT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	COLORADO	C-10-0000-04	2	

NOTE:
See Standards for Details of
Cut Slope Treatment, Flaring & Widening.



GENERAL NOTES

This project is to be constructed in conformity with the standard specifications of the Colorado Department of Highways, adopted January 1, 1958.

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

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

All Corrugated Metal Pipe Cross Culverts shall be laid with Metal Aprons on each end unless otherwise noted on the plans.

All thicknesses of Surfacing and Asphaltic Processing are approximate.

All curves are to be super-elevated and widened as provided by the Standard Superelevation sheet included with the plans.

For preliminary plan quantities of Asphaltic Road Materials, the following rates of application were used:

Prime Coat - Roadway 0.40 Gals. per Sq. Yd. (Future Construction)
Prime Coat - Bridge 0.10 Gals. per Sq. Yd.

Rate of application and grade of Asphaltic Material shall be as determined by the Engineer at time of application.

Road approaches are to be covered with 4" of Sub-base Material in lieu of 4" of Gravel or Crushed Rock Surfacing as shown on Standard M-2-EN.

Application methods for liquid asphaltic road material, which result in the discoloration of concrete pavement, curbs or gutters, will not be permitted.

Prime Coat and Asphaltic Surfacing shall be placed over the curbed width of the bridge at Sta 224.

Future Construction
of this Project shall consist
of the entire West Bound Lane
and the Base Course and As-
phaltic Surfacing of the East
Bound Lane.

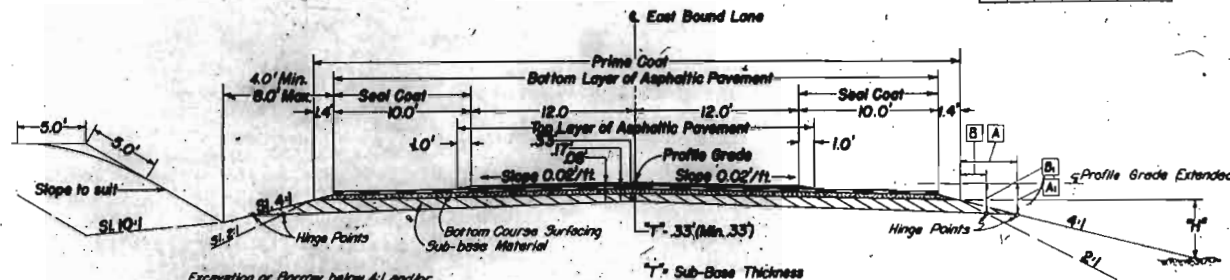
Fill Slopes

On Curves:
Slope 4:1 where "H" is 5' or less
Slope 2:1 where "H" is over 5'

On Tangents:
Slope 4:1 where "H" is 5' or less
Slope 2:1 where "H" is over 5'

East Bound Lane
Table of Side Slope
Hinge Points for Sub-base Mat'l

In.	FL	FL	A	A	B	B
5	42	33	22	16	11	15
9	74	65	35	20	14	19



Excavation or Borrow below 4:1 and/or 10:1 slope, will not be permitted.

The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage under entrance to drainage structures.

Material above the subgrade is to be constructed of Sub-base Material at locations designated in Sub-base material tabulation. Estimated quantities involved in this operation and thickness of material required are tabulated in the Sub-base Material plan.

JUN 18 1962



PROJECT NO. C/O-0088-04

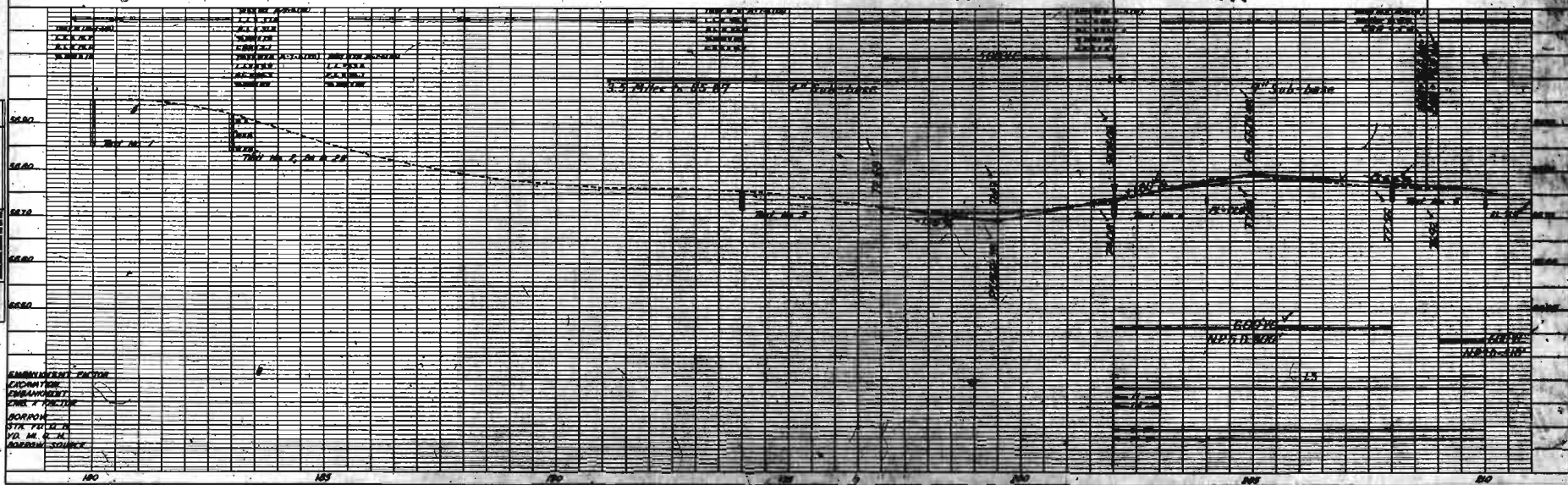
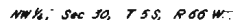
FINAL SUMMARY OF QUANTITIES

PROJECT NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	GA.	0088-04	28	32

FINAL CONSTRUCTION SHEET

ITEM NO.	ITEM	UNIT	ROADWAY			BRIDGE STR. 224			PROJECT TOTAL			TOTALS	ITEM NO.	ITEM	UNIT	ROADWAY			BRIDGE STR. 224			PROJECT TOTAL			TOTALS
			PLAN	FINAL	DIFF.	PLAN	FINAL	DIFF.	PLAN	FINAL	DIFF.					PLAN	FINAL	DIFF.	PLAN	FINAL	DIFF.	PLAN	FINAL	DIFF.	
10	Clearing and Grubbing Extra Project	L.S.	2	2	0	2	2	0	2	2	0														
11	Road Final Slopes	L.S.	2	2	0	2	2	0	2	2	0														
12	Gravel Roadway Base and Curb	CUYD	1	1	0	1	1	0	1	1	0														
13	Removal of Old Roadway	CUYD	1	1	0	1	1	0	1	1	0														
14	Unexcavated Excavation	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
15	Unexcavated 10' to 12' Excavation	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
16	Stripping	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
17	Unexcavated Structural Excavation (Under Road)	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
18	Unexcavated Structural Excavation (Under Bridge)	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
19	Structural Concrete (Curb & Gutter)	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
20	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
21	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
22	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
23	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
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26	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
27	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
28	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
29	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
30	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
31	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
32	Gravel Roadway Base	CUYD	2724	2724	0	2724	2724	0	2724	2724	0														
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Soil Data shown on the Plans is obtained from best available testing laboratory information. This information is shown for convenience of the Contractor and The Department does not guarantee the accuracy of these Tests. If Materials 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.



EMERGENCY FACTOR
EXORNTION
EMERGENCY
END X FACTOR
BORROW
STA. 10.00
YD. 10.00
BORROW SOURCE

FED. ROAD DISTRICT NO.	DISTRICT	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	COLORADO	000000-01	3X	3

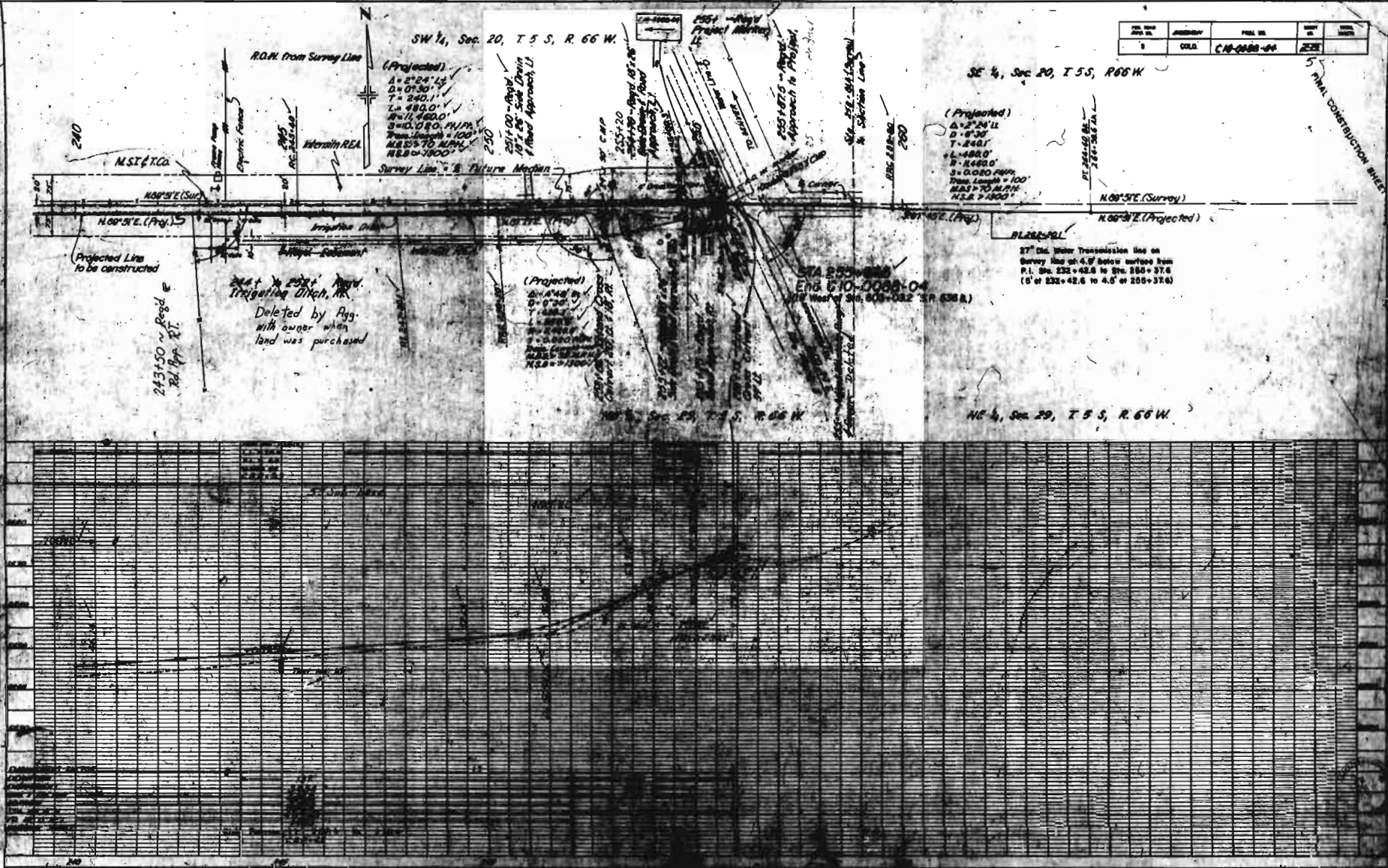
LOCATION	DESCRIPTION	REMOVE STRUCTURE		EXCAVATION			STRUCTURAL EXCAVATION			STRUCTURE BASE/FILL			CONC. TYPING		SILLING		CONCRETE CLASS B		REINFORCING STEEL		CORRODATED METAL CULVERT PIPE		Treated bridge timber		STEEL		METAL APPROX. FOR CULV. DELIVERYS		FINAL CONSTRUCTION SHEET
		CONC. YARDS		CONC. YARDS			CONC. YARDS			CONC. YARDS			CONC. YARDS		CONC. YARDS		CONC. YARDS		CONC. YARDS		CONC. YARDS		CONC. YARDS		CONC. YARDS		CONC. YARDS		
		IN	YD	IN	YD	IN	YD	IN	YD	IN	YD	IN	YD	IN	YD	IN	YD	IN	YD	IN	YD	IN	YD	IN	YD	IN	YD	IN	
2021																													
202.00																													
203.00																													
204.00																													
206.21																													
210.00																													
217' to 219'																													
220' to 221'																													
222.47																													
224.430 to 227.960																													
227.963 to 232.93																													
228.55 R/L																													
228.78																													
228.63																													
231.50																													
232.20																													
239.12																													
243.50																													
244' to 242'																													
251.00 L/L																													
252.186																													
253.22 R/L																													
255.20 L/L																													
255.																													
255.125																													
255.173																													
255.187.5																													
255.																													

1952



FILE NO APR 24	SEARCHED	FILE NO	INDEXED	FILED
9	COLD	CA-998-44	2-21	

FINAL CONSTRUCTION SHEET

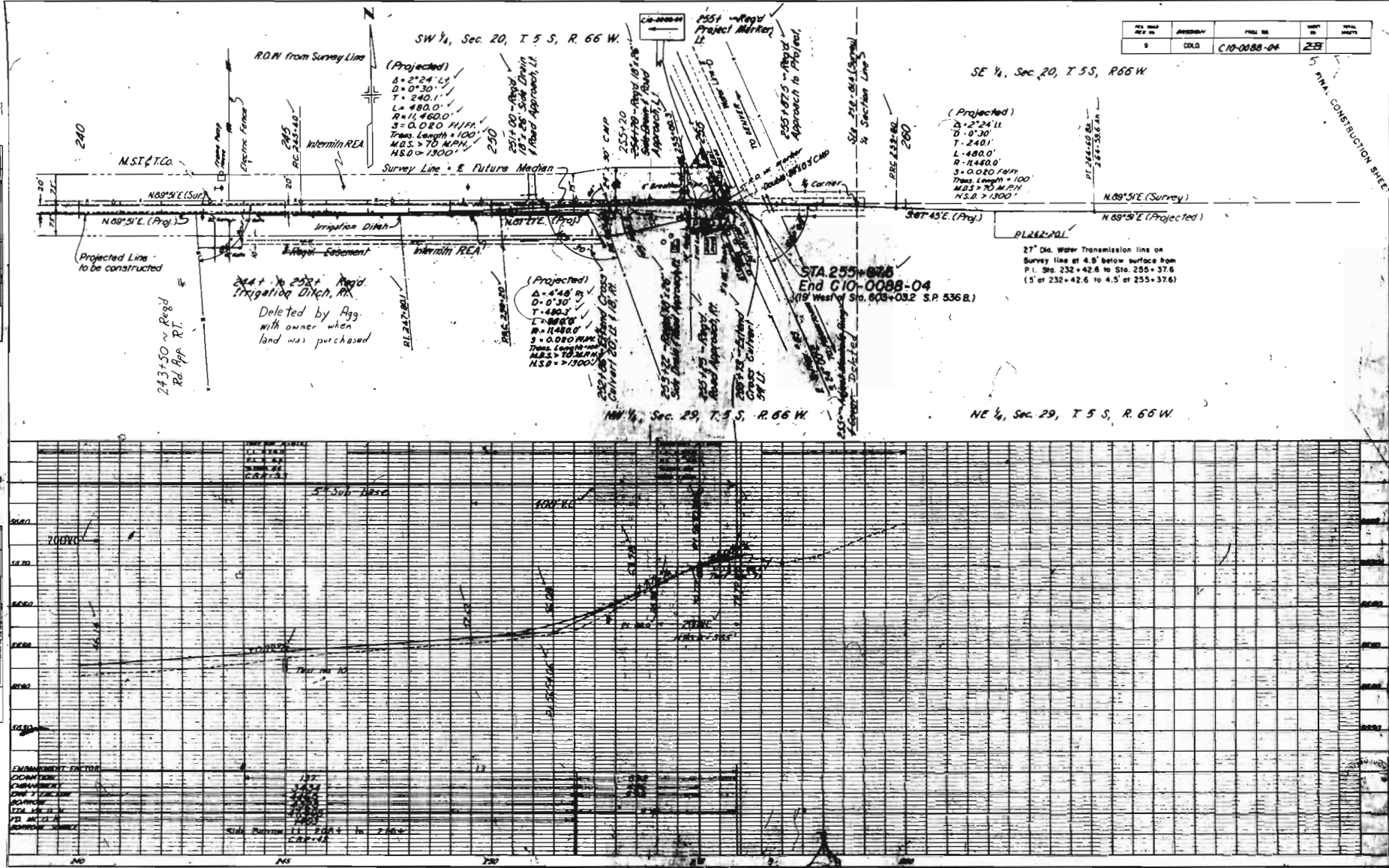


JUN 18 1962

[illegible]

DATE	05/02/02
TIME	10:00 AM
NAME	JOHN J. JONES
ADDRESS	12345 MAIN ST
CITY	ANYTOWN, NY
STATE	NY
ZIP	12345
PHONE	555-1234
EMAIL	JOHN.J.JONES@GMAIL.COM
DOB	01/01/1980
SSN	123-45-6789
SEX	M
RACE	W
HAIR	B
EYES	B
SKIN	F
HEIGHT	5'10"
WEIGHT	180
HAIR COLOR	B
EYE COLOR	B
SKIN COLOR	F
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SKIN TYPE	N
HAIR LENGTH	S
EYE LENGTH	A
SKIN TONE	N
HAIR COLOR	B

EMBROIDERY FACTORY	
COAST GUARD	
EMBROIDERY	
ONE YEAR TERM	
BOATW	
STA. 10.11.11	
PER. 10.11.11	
BOATW. 10.11.11	





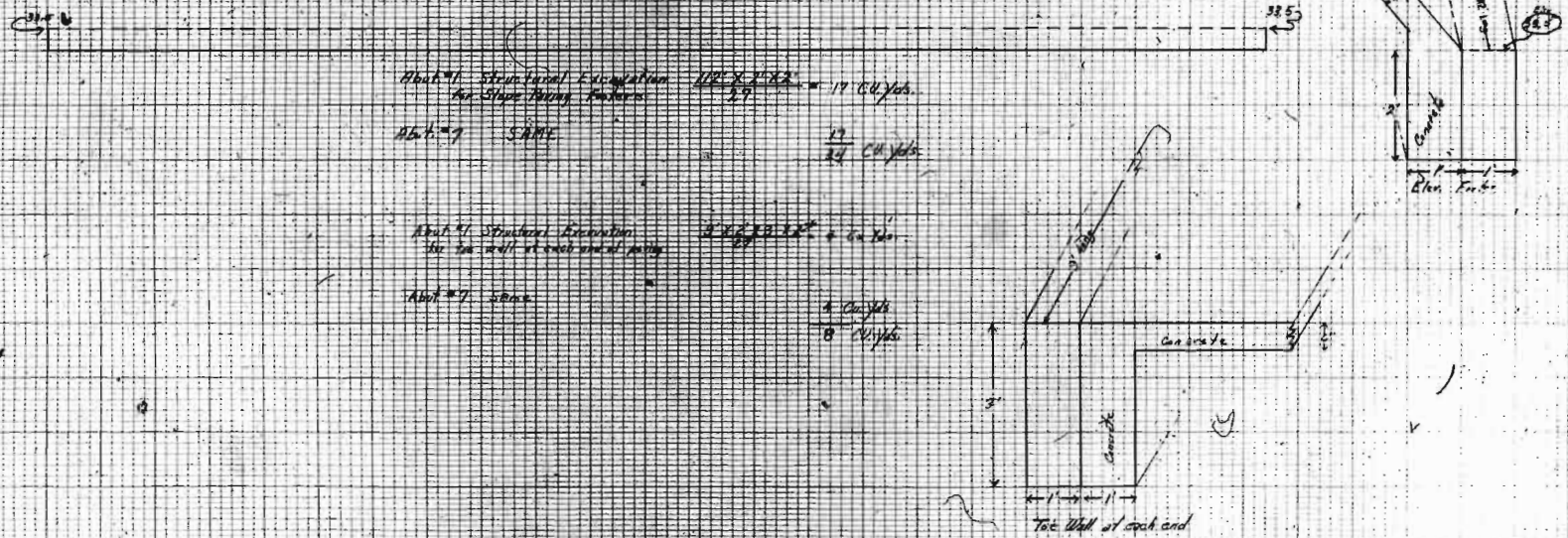
DATE	BY	CHECKED	APPROVED

DATE	BY	CHECKED	APPROVED

Excavation Area Embankment Area Excavation Area Embankment Area

PRO. ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
			4X	

Unfinished Structural Foundation for
Two Walls of Slope Drains



JUN 1 1962



TABULATION OF TIMBER GUARD POSTS

STATION	SIDE	SPACING	NO.
203+00	RL & LL	Intersection...	13
204+00	RL & LL	Culvert	2
206+56	RL & LL	Road Approach	4
210+00	RL & LL	Culvert	2
217+00 to 224+00	RL & LL	100 FT.	17
229+00 to 232+00	RL & LL	SL & 1 RL	3
228+00	RL	Road Approach	3
231+70	RL & LL	Road Approach	6
239+12	RL & LL	Culvert	2
251+00	LL	Road Approach	2
252+86	RL & LL	Culvert	2
253+22	RL	Road Approach	3
255+73	RL & LL	Culvert	2
255+87E	RL & LL	Intersection	1
TOTAL			62 X

SUMMARY OF EARTHWORK QUANTITIES

<u>Excavation</u>	
From Cross Sections	36,886
<u>Embankment</u>	
From Cross Sections	26,029
Embankment x Factor	36,886
Station Yard Overhaul	166,004
Yd. Mile Overhaul	1,203
<u>Compaction</u>	
From Unclassified Excavation	36,886
Base of Cuts & Fills	13,526
Total	49,412
<u>Unclassified Ditch Excavation</u>	
From List of Structures	231 X

RIGHT OF WAY MARKERS

STATION	SIDE	NUMBER EACH	REMOVE EACH
210+00 to 214+00	LL & RL	2	
236+00	LL & RL	2	
232+00	LL & RL	2	
235+00	LL		1
TOTALS		6	1

SUB-BASE MATERIAL PLAN

STATIONS	SOURCE	SUB-BASE CLASS	Field Measure	TON MILE
202+00 to 210+00	Sub-base	5	28,467	2,981
211+00 to 216+00	Sub-base	5	10,440	768
216+00 to 224+00	Sub-base	5	16,704	1,413
224+00 to 226+00	Sub-base	5	1,423	166
227+00 to 230+00	Sub-base	5	31,725	2,581
230+00 to 232+00	Sub-base	5	37,333	2,925
Approach to Project Sta. 202+00 Westward for 3.74 miles		4	22,760	1,474
From List of Structures		5	14,000	Quantities included within stationing above
Irregularities in Sub-base Compaction around bridge where sub-base grade had to be made to match deck of bridge		Variable	15,000	
TOTALS			376,852	24,096

Density of Sub-base calculated from total tonnage and total cubic feet of volume occupied by culverts: $\frac{24,096 \text{ tons}}{132 \text{ cu. ft.}} = 182 \text{ lb. per cu. ft.}$

Sub-base tonnage lost by daily tally of loads as per Item 23.4.3. Written approval granted by Department on 6/12/62 in response to formal written request by the Contractor. See Book #3.

FENCING REQUIREMENTS

STATIONS	SIDE	REMOVE FENCE	CHAIN LINK WIRE MESH	BUILD B.W. FENCE	BUILD B.W. SNOW FENCE	B.W. GATES
198+00-202+90	RL	490				
202+90	RL X	100				
206+60-204+00	LL	1020				
204+65	LL X	60				
204+21	LL					
206+21	RL					
204+75-213+25	RL	900				
213+10-228+15	LL	1305				
215+35	RL X	80				
219+20	RL X	75				
222+47	LL					
228+35	RL					
227+70	RL X	85				
228+40	RL X	70				
228+40-231+00	LL	350				
230+55	RL X	70				
231+58	LL					
230+25-231+25	Unfinished		390			
230+80	RL X	45				
232+25	RL X	25				
232+25-252+65	LL	2040				
232+40-235+60	LL	2340				
232+80	LL					
234+60	RL X	50				
235+25	RL X	55				
242+45	RL X	55				
248+65	LL X	60				
252+65-253+10	RL	45				
252+70	RL X	60				
253+50-254+25	RL	125				
255+60	LL X	140				
198+00-201+00	LL			478		
202+65-224+65	LL			2942		
209+30-216+30	LL			2668		
227+97-255+00	LL					
251+00	LL					
253+20	LL					
198+00-203+00	RL					
204+26-224+65	RL					
227+97-255+00	RL					
234+50	RL					
243+50	RL					
243+22	RL					
TOTALS		9885	590	14883		1 1 1 1 1 1

FINAL CONSTRUCTION SHEET

201 00
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201 00

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