

NOV 2 1972

INACTIVE

THE STATE DEPARTMENT OF HIGHWAYS DIVISION OF HIGHWAYS STATE OF COLORADO

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLORADO	F 032-1(10)	1

ROW PURCHASED UNDER
U 032-1(5) & F 032-1(9)

UTILITIES UNDER F032-1(9)

INDEX OF SHEETS

AS CONSTRUCTED

REVISED DATE OCTOBER 23, 1970

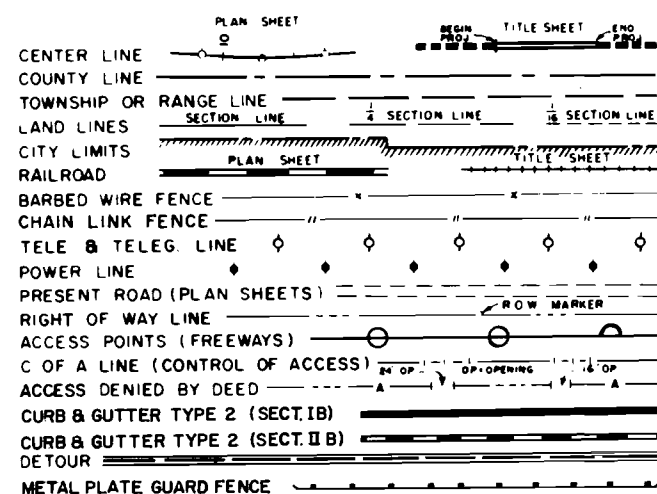
PLAN AND PROFILE OF PROPOSED

FEDERAL AID PROJECT NO. F 032-1(10)

STATE HIGHWAY NO. 58

JEFFERSON COUNTY

CONVENTIONAL SIGNS



POWER POLES TO BE SET
POWER POLES TO BE REMOVED
RESET ANCHORS

SCALES OF ORIGINAL DRAWINGS

ON PLAN, 1 IN. = 50 FT.
ON PROFILE, 1 IN. = 50 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

CONTRACTOR SCHMIDT CONSTRUCTION CO

RESIDENT ENGINEER R. W. LINKE

DATE COMPLETED OCTOBER 23, 1970

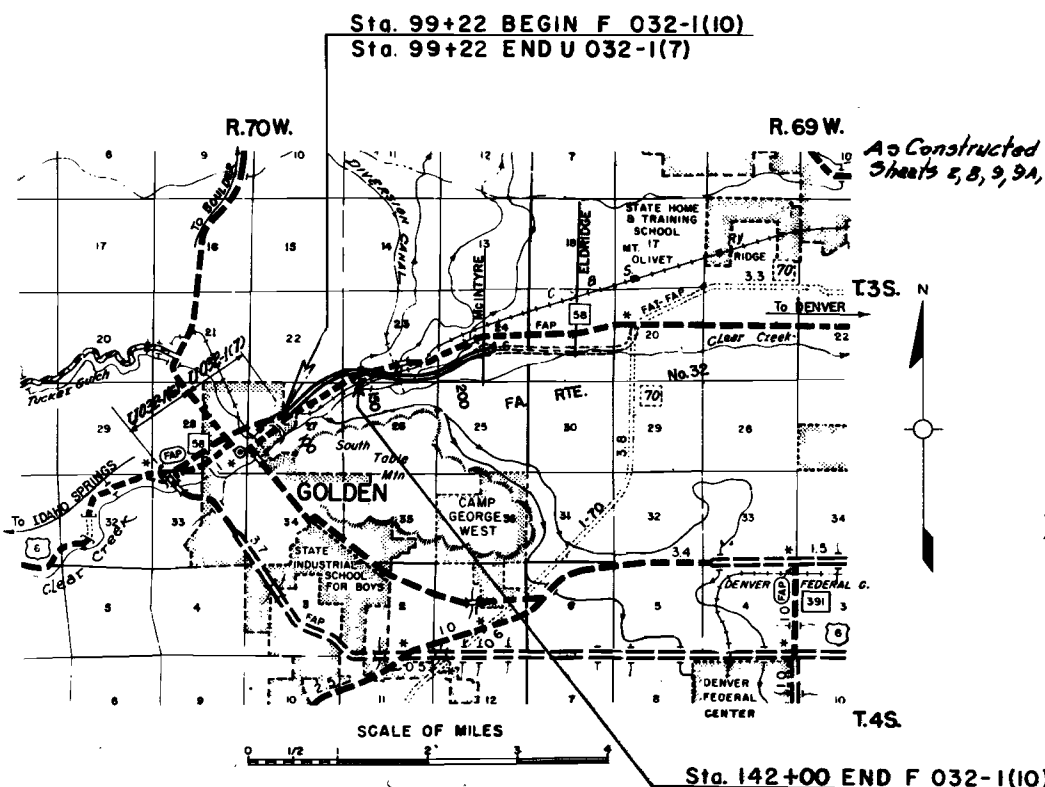
TABULATION OF LENGTH

STATION	SIGNING	ROADWAY
	LIN. FT.	LIN. FT.
72+80 BEGIN F032-1(10) SIGNING= 72+80 ON F005-3(5) 57+85.0 EQUATION 197+44.9	1,495.0	
193+64 on F005-3(5)= 18+30.2 BEG. U032-1(6) [W.B. Lane]	2,717.1	
45+47.3 Golden City Limits	1,952.7	
65+00.0 END U032-1(6)= 65+00.0 BEG. U032-1(7) 99+22.0 END U032-1(7)= 99+22.0 BEG. F032-1(10) CONSTR. 99+22.0 Golden City Limits	3,422.0	
105+45.8 Bk.= EQUATION. ✓ 105+37.2 Ah.	623.8	623.8
142+00 END F032-1(10) Signing & Construction	3,662.8	3,662.8
TOTALS	14,254.3	4,286.6
SUMMARY	LIN. FT.	MILES
SIGNING	14,254.3	2.700
ROADWAY (NET & GROSS)	4,286.6	0.812

DESIGN DATA

MAXIMUM DEGREE OF CURVE --- 3°00'
MAXIMUM GRADE --- 6.00%
MINIMUM S.S.D. ~ HORIZONTAL --- 1185'
MINIMUM S.S.D. ~ VERTICAL --- 530'
MAXIMUM DESIGN SPEED --- 60 M.P.H.

1989 Design Traffic Volume { 11,480 ADT
1,260 DHV



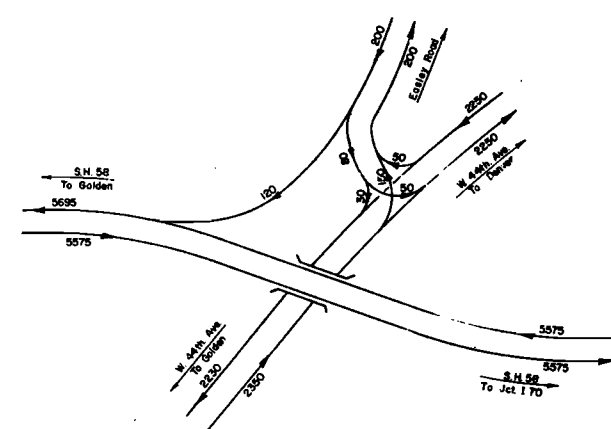
Sta. 142+00 END F 032-1(10)

SHEET NO.	DESCRIPTION
1	SKETCH MAP, TITLE PAGE AND TABULATION OF LENGTH & DESIGN
2	TYPICAL SECTIONS AND GENERAL NOTES
3-4	SUMMARY OF APPROXIMATE QUANTITIES
5	SUMMARY OF EARTHWORK, TABULATIONS FOR SURFACING, SLOPE & DITCH PAVING, GUARD RAIL, SHOULDER ROLL, R.O.W. MARKERS, AND FENCING REQUIREMENTS.
6	LIST OF STRUCTURES
7	DETAILS FOR SPECIAL OUTLET STRUCTURE, TRASH GUARD, DITCH PAVING, AND CONC. SLAB OVER WATER LINE.
8	STD. M-601-A - SINGLE AND DOUBLE CONCRETE BOX CULVERTS (Revised for this project only)
9-10	STD. M-601-C - WINGWALLS FOR CONCRETE BOX CULVERTS, 4:1 SIDE SLOPES (Revised for this project only)
10	TYPICAL ENTRANCE RAMP MERGING DETAILS
11	ALIGNMENT PLAN & PROFILE SHEETS
21-22	DETAILS OF MCINTYRE INTERCHANGE, STA. 219+
23-24	RELOCATION OF W. 44TH AVE. AND TEMPORARY CONNECTION
25-50	SIGNING PLANS
51-115	CROSS SECTIONS - VOID

M STANDARDS	DESCRIPTION	QUANTITY	DATE
M-203-A	SUPERELEVATION & WIDENING OF CURVES - CROWNED HIGHWAYS	7-30-68	
M-203-A-1	SUPERELEVATION OF CURVES - DIVIDED HIGHWAYS	7-30-68	
M-203-B	APPROACH ROADS, FLARING, CUT SLOPE TREATMENT, BRIDGE & CREST WIDENING	7-30-68	
M-203-C	DITCH TYPES	7-23-68	
M-206-A	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	7-1-68	
M-500-A	LETTERS AND FIGURES FOR STRUCTURE NUMBERS	7-1-68	
M-501-D	WINGWALLS FOR CONCRETE BOX CULVERTS (2:1 SIDE SLOPES)	10-25-68	
M-603-CA	CONCRETE AND METAL END SECTIONS	7-23-68	
M-603-M	METAL CULVERT PIPE - H-20 LOADING	7-23-68	
M-603-RC	REINFORCED CONCRETE PIPE	7-23-68	
M-606-AB	GUARD RAIL, TYPE 3	7-10-68	
M-606-B	GUARD RAIL, TYPE 5, BOX BEAM MEDIAN BARRIER - STEEL	9-16-68	
M-607-A	WIRE FENCES AND GATES	5-6-68	
M-607-B	CHAIN LINK FENCE	7-24-68	
M-609-A	CURBS AND GUTTERS	7-19-68	
M-612-A	MARKER POSTS AND BENCH MARKS	7-24-68	
M-612-C	DELINEATORS	7-11-68	
M-614-A	TIMBER BARRICADES	11-15-68	
M-614-IC	STANDARD CONSTRUCTION IDENTIFICATION SIGNS	7-26-68	
M-614-TB	TRAFFIC SIGNING FOR HIGHWAY CONSTRUCTION	12-24-68	
M-615-A	EMBANKMENT PROTECTOR - TYPES 3 & 4	7-30-68	

S STANDARDS	DESCRIPTION	QUANTITY	DATE
S-614-19A	TYPICAL GROUND SIGN PLACEMENT	11-18-68	
S-614-20B	CLASS I GROUND SIGN INSTALLATIONS	7-1-68	
S-614-21B	CLASS II GROUND SIGN INSTALLATIONS	7-1-68	
S-614-22B	TYPICAL MARKER ASSEMBLY INSTALLATIONS	9-27-68	
S-614-23B	LAMINATED ALUMINUM PANELS AND POST SPACING TABLE FOR CLASS III SIGNS	7-15-68	
S-614-25B	SHEET ALUMINUM PANELS FOR CLASS III SIGNS	7-15-68	
S-614-26B	BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS	12-9-68	
S-614-27B	PEDESTALS, FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS	11-21-68	
S-614-28B	FLASHING YELLOW BEACON AND SIGN INSTALLATION	9-5-68	
S-614-29A	TYPICAL PAVEMENT MARKINGS	7-10-68	
S-614-31B	U.S. & COLORADO ROUTE MARKERS	5-1-68	
S-614-32A	AUXILIARY MARKERS	7-15-68	
S-614-35A	TYPICAL MULTI-SIGN INSTALLATIONS	11-14-68	

114X-117X CROSS SECTIONS LILLY LAKE W.D. 21421
118X-123X CROSS SECTIONS CROCK CREEK W.D. 21424
123X CROSS SECTIONS MUCK REMOVAL RAMP AT MCINTYRE
124X-126X WORK SHEETS FOR STRUCTURE QUANTITIES
127X-129X CROSS SECTIONS FOR TOP SOIL STOCKPILES
135X-138X CROSS SECTIONS FOR DETERMINING CENTER OF GRAVITY OF EXCAVATION STA. 131+ TO 141+



TRAFFIC LEGEND

5575 = 1988 Annual Average

Turning Movement Diagram -
S.H. 58 at W. 44th and Easley Rd.

SUBMITTED BY: [Signature] SEPT. 9, 1968

HENNINGSON, DURHAM & RICHARDSON
ENGINEERS - PLANNERS - CONSULTANTS
CAPTOL LIFE CENTER
DENVER, COLORADO

SEE SPECIAL PROVISIONS FOR
NOTICE TO BIDDERS

DIVISION OF HIGHWAYS

APPROVED: [Signature]
CHIEF ENGINEER

DATE: [Signature]

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS

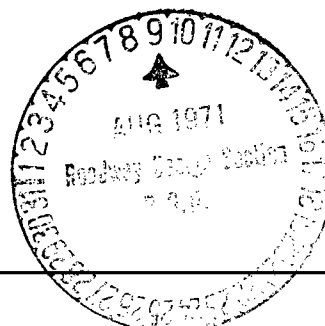
APPROVED: [Signature]
DIVISION ENGINEER

DATE: [Signature]

W.E.M.

W. E. MITCHELL

R. L. MAYER



NOTES:
SEE STANDARDS FOR DETAILS OF CUT SLOPE
TREATMENT, FLARING & WIDENING.

EXCAVATION BELOW 4:1 SLOPE 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 AND/OR
ENTRANCE TO DRAINAGE
STRUCTURES.

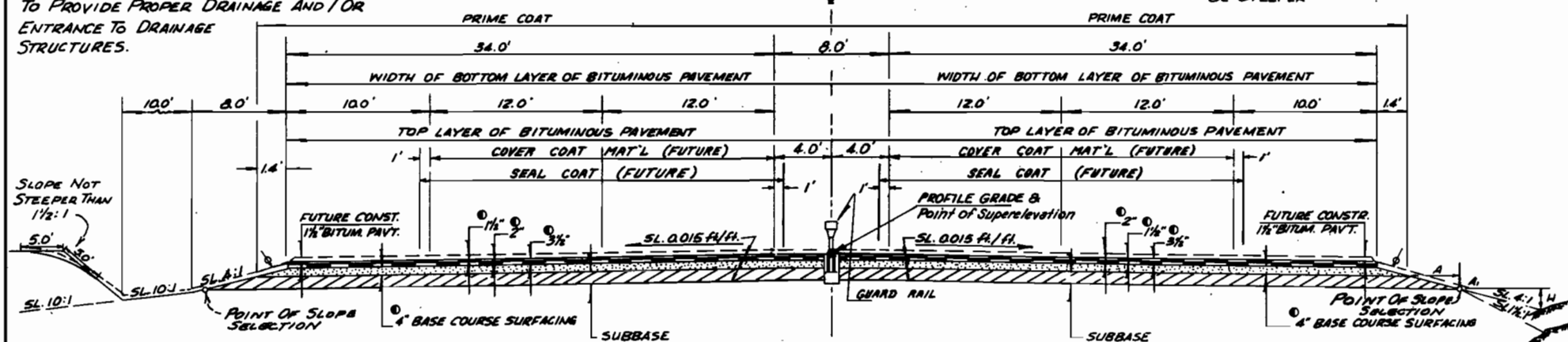
FEB 4 1969

TYPICAL SECTIONS

STA. 99 + 22 to STA.166+00

FILL SLOPES		
"H"	CURVES	TANGENTS
4' OR LESS	6:1	6:1
4' TO 10'	4:1	4:1
OVER 10'	3:1	3:1

IN SPECIAL CASES SLOPE MAY
BE STEEPER



BREAK POINTS ON SLOPES & IN BOTTOMS
OF DITCHES SHALL BE ROUNDED ON
CONSTRUCTION FOR PLEASING APPEARANCE.

CONTRACTOR WILL BE REQUIRED TO PLACE
TOP SOIL TO THIS LINE AFTER COMPLETION
OF PAVING OPERATIONS.

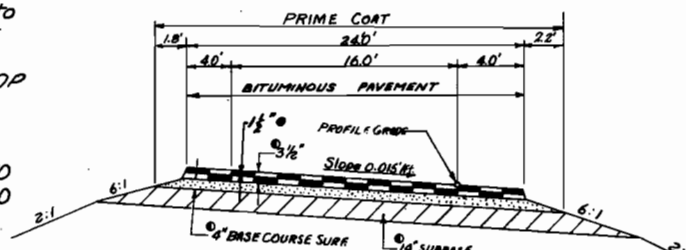
A&A, VARY TO MATCH FILL SLOPE THAT IS ACTUALLY
CONSTRUCTED.

① APPROXIMATE THICKNESS

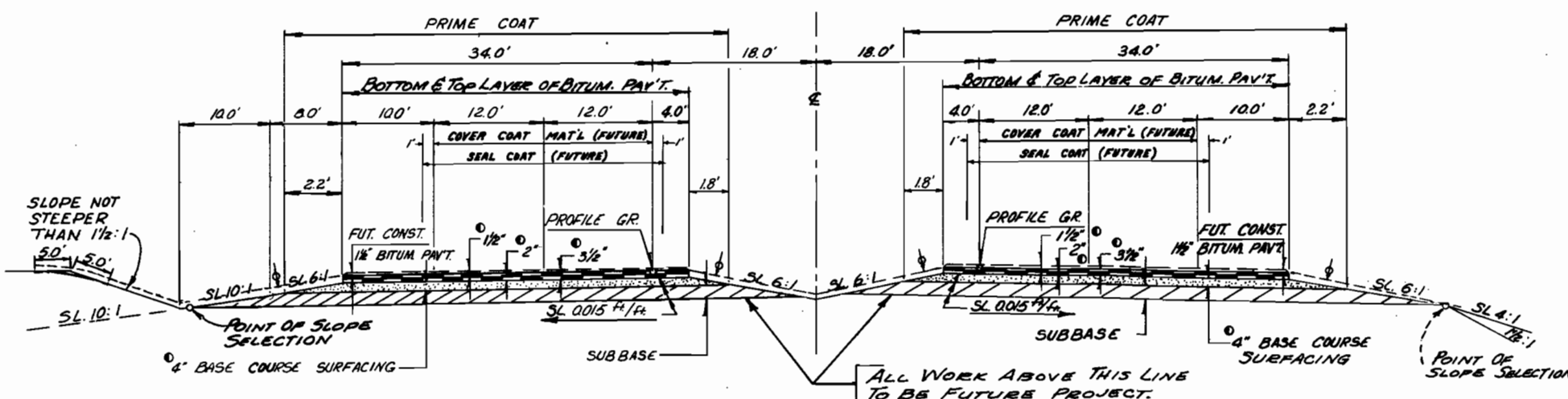
SUBBASE, BASE COURSE SURFACING
& BITUMINOUS PAVEMENT SHALL BE
CONSTRUCTED FROM STA. 99+22 TO
STA. 142+00 ONLY. ROADWAY TO BE
COMPLETED FROM 99+22 TO 142+00.
ROADWAY TO BE CONSTRUCTED TO TOP
OF SUBGRADE ONLY FROM 142+00
TO 222+.

TRANSITION FROM NON-DEPRESSED TO
DEPRESSED MEDIAN STA. 166+00
TO STA. 175+00

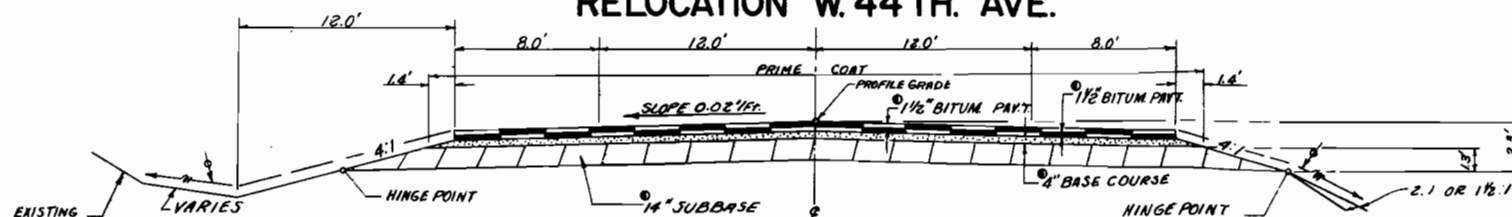
EASLEY RAMP



STA. 175+00 to STA.222+



RELOCATION W. 44TH. AVE.



FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F-032-1(10)	2	

R-1 Rev. 1-28-69 W.E.M. R-2 Rev. 2-7-69 W.E.M.

GENERAL NOTES

FOR PRELIMINARY PLAN QUANTITIES OF BITUMINOUS MATERIALS & COVER COAT
MATERIAL THE FOLLOWING RATES OF APPLICATION WERE USED:

PRIME COAT, MC	0.40	GALS. PER SQ. YD.
COVER COAT MATERIAL	430	LBS. PER SQ. YD. (4 inch)
TACK COAT, EMUL. ASPH. (55-1H)	0.10	GALS. PER SQ. YD.
BITUMINOUS PAVEMENT	110	LBS. PER SQ. YD. PER INCH

RATES OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT TIME
OF APPLICATION.

DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:

FULL DEPTH OF ALL EMBANKMENTS.
BASES OF CUTS 1 FOOT. EXCAVATION REQUIRED FOR COMPACTION OF
BASES OF CUTS & FILLS WILL BE CONSIDERED
AS SUBSIDIARY TO THAT OPERATION AND WILL
NOT BE PAID FOR SEPARATELY.

SEEDING AND MULCHING WILL BE REQUIRED WITHIN RIGHT OF WAY LIMITS ON ALL
TOPSOIL AREAS. FOR SEEDING, THE FOLLOWING SHALL BE USED.

COMMON NAME	BOTANICAL NAME	PERCENT PURITY	PERCENT GERMINATION	RATE LBS / ACRE
Smooth Brome	Bromus Inermis	85	90	6
Russian Wildrye	Elymus Junceus	90	85	5
Intermediate Wheatgrass	Agropyron Intermedium	90	85	5
Crested Wheatgrass	Agropyron Cristatum	90	85	4
(Fairway Strain)				
Blue Grama	Bouteloua Gracilis	35	60	1

WHEN ORDERED BY THE ENGINEER, A TACK COAT OF (55-1H) IS TO BE APPLIED BETWEEN
PAVEMENT COURSES TO IMPROVE BOND.

DUST PALLIATIVE OF EMULSIFIED ASPHALT (55-1H) AND WATER WILL BE REQUIRED.
APPLICATION RATES AND LOCATIONS SHALL BE AS ORDERED.

EARTH SLOPES SHALL BE DISCED, OR ROUGHENED BY OTHER APPROVED METHODS
FOR MULCHING OR EROSION PROTECTION.

ALL QUANTITIES ON PRELIMINARY PLANS ARE TO BE CONSIDERED APPROXIMATE ONLY.

WETTING (EMBANKMENT) 40 GAL. PER CU. YD.
WETTING (SUBBASE & BASE COURSE) 15 GAL. PER TON

ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER
PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS
PLACED.

WATER LINES, SEWER LINES, GAS LINES, ETC., AS SHOWN ON PLAN AND PROFILE ARE
PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR'S ATTENTION IS
DIRECTED TO PARAGRAPH 105.06 OF THE STANDARD SPECIFICATIONS CONCERNING UTILITIES.

MATERIAL ABOVE THE SUBGRADE IS TO BE CONSTRUCTED OF AGGREGATE MATERIAL AT
LOCATIONS DESIGNATED IN THE SURFACING TABULATION. ESTIMATED QUANTITIES
INVOLVED IN THIS OPERATION AND THICKNESS OF MATERIAL REQUIRED ARE TABULATED
IN THE SURFACING MATERIAL PLAN.

TOPSOIL IS AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION OF THIS PROJECT BETWEEN
STA. 145+ AND STA. 175+. CONTRACTOR SHALL STRIP, STOCKPILE AND PLACE ON
SLOPES. NO SEPARATE PAYMENT WILL BE MADE FOR HAULING TOPSOIL. TOPSOIL
WILL BE PLACED TO A MINIMUM THICKNESS OF 4 INCHES, STA. 99+ TO STA. 142+.

It is estimated that 8900 Cu. Yds. of Topsoil will be required.

Clearing of Building Sites on this project shall be included under Removal of
Structures and Obstructions.

Class "AX" Concrete will be permitted on this project.

IF THE CONTRACTOR ELECTS TO USE REINF. CONCRETE PIPE FOR CULVERTS THE LAST 3
JOINTS DOWNSTREAM SHALL BE SECURED AS PER "M" STD. M-603-CA. AND THE LAST 2
JOINTS IF END SECTION IS USED.

It is estimated that 3000 Hours of Flagging for controlling traffic
will be required for this project.

HENNINGSON, DURHAM & RICHARDSON
ENGINEERS - PLANNERS - CONSULTANTS
CAPITOL LIFE CENTER
DENVER, COLORADO

SUMMARY OF APPROXIMATE QUANTITIES

REVISED

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TO: ALL SHEETS
1	COLORADO	F 032-11(10)	3	

SPEC. ITEM NO.	ITEM	UNIT	Roadway	Roadway As Constructed	Reference	W.O. 21421 Non-Fed. Aid	Reference	Major Structure E-16-HC	E-16-HC As Constructed	Reference	Project Totals As Constructed Fed. Aid	PROJECT TOTALS	Project Totals As Constructed	Over	Under
201	Clearing & Grubbing Entire Project	L.S.	.	.	Book 24, Pg. 7							.	.		
202	Removal of Structures & Obstructions	L.S.	.	.	24 8							.	.		
202	Removal of Structures	Each	5	4	24 9						4	5	4		1
202	Removal of Fence	Lin. Ft.	5,500	8,779	24 9		233	Book 24, Pg. 9	2,000	2,779	Book 24, Pg. 10	8,779	5,500	9,012	3,512
203	Unclassified Excavation (Haul)	Cu. Yd.	495,000	622,754	24 10		534	25 39				497,000	497,000	622,754	174,254
203	Muck Excavation (Haul)	Cu. Yd.	7,500	27,487	24 12							7,500	7,500	27,487	19,987
203	Embankment (Standard)	Cu. Yd.	494,000	622,754	24 13							494,000	494,000	622,754	202,513
204	Yard Mi. O.H. (W.O. 11321)	Yd. Mi.		62,639	25 40							62,639	62,639	62,639	
206	Structure Excavation (Haul)	Cu. Yd.	2,400	2,779	24 15			490		24 15	2,890	2,890	2,890	5,435.3	
206	Structure Backfill (Class 3) (Haul)	Cu. Yd.	1,610	3,094.1	24 15			1,310		24 15	2,920	2,920	2,920	3,419.3	
206	Structure Backfill (Class 2) (Haul) (W.O. 11395, 21409, 21411, 21420)	Cu. Yd.		3,094.1	25 25							3,094.1	3,094.1	3,094.1	
207	Topsoil (Haul)	Cu. Yd.	8,900	13,328	24 17						13,328	8,900	13,328	4,428	
208	Seeding	Acre	17	16.5	24 18						16.5	17	16.5		0.5
210	Reset Guard Rail (Type 3) (W.O. 21421)					201	25 35							201	
208	Mulching	Acre	17	16.1	24 19						16.1	17	16.1		0.9
208	Soil Sterilization Deleted By C.O. 11320	Sq. Yd.	120	0							0	120	0		120
209	Wetting	M. Gal.	20,770	18,176	24 21						18,176	20,770	18,176		2,594
210	Reset Ground Sign	Each	26	16	24 22						16	26	16		10
304	Aggregate Base Course (Class 1) (Haul)	Ton	44,300	43,608.7	24 25						43,608.7	44,300	43,608.7		691.3
304	Aggregate Base Course (Class 6) (Haul)	Ton	13,400	11,828.05	24 24		321.05	25 37			11,828.05	13,400	12,149.10		1,250.9
403	Hot Bituminous Pavement (Grading E) (Haul & Asphalt)	Ton	10,700	10,114.35	24 26		87.05	25 38			10,114.35	10,700	10,201.4		498.6
409	Cover Coat Material (Median) Deleted By C.O. 11320	Ton	30	0							0	30	0		30
411	Emulsified Asphalt (SS-1h)	Gal.	21,900	1,334	24 28						1,334	21,900	1,334		20,566
411	Liquid Asphaltic Material (MC-70)	Gal.	25,100	17,589	24 29						17,589	25,100	17,589		7,511
507	Concrete Slope & Ditch Paving (Reinf.)	Cu. Yd.	69	242.4	24 30				6.73	24 30	307.3	69	30.73		38.21
507	Dry Rubble Slope & Ditch Paving Deleted By C.O. 21420	Cu. Yd.	63	0							0	63	0		63
507	Bituminous Slope & Ditch Paving Deleted By C.O. 21420	Ton	1,054	0							0	1,054	0		1,054
601	Concrete Class A	Cu. Yd.	676	870.42	24 36			1,219	1,183.89	24 36	2,054.31	1,895	2,054.31	1,593.1	
605	6" Perforated C.S.P. Underdrain (W.O. 11395)	Lin. Ft.		3,238	25 28						3,238		3,238	3,238	
602	Reinforcing Steel	Lb.	63,900	76,671	24 38			116,100	132,350	24 38	204,142	180,000	204,142	24,142	
605	6" Non-Perf. C.S.P. Underdrain (W.O. 11395)	Lin. Ft.		279	25 29						279		279	279	
603	6 Inch Corrugated Steel Pipe	Lin. Ft.	190	136.3	24 40						136.3	190	136.3		53.7
603	15 Inch Corrugated Steel Pipe	Lin. Ft.	44	64.1	24 41						64.1	44	64.1	24.1	
603	22 X 15 Inch Corrugated Steel Pipe Arch	Lin. Ft.	60	60.6	24 42						60.6	60	60.6	0.6	
603	15 Inch Steel End Section	Each	1	1	24 43						1	1	1		
605	8" Perforated V.C.P. Underdrain (W.O. 21411, 21404)	Lin. Ft.		916	25 30						916		916	916	
606	Guard Rail Type 3	Lin. Ft.	4,902	4,389.9	24 44		216.9	25 36			4,389.9	4,902	4,389.9		295.2
606	Guard Rail Type 5	Lin. Ft.	4,939	4,716	24 45						4,716	4,939	4,716		223
607	End Post	Each	1	13	24 46						13	1	13	12	
607	End Post (Chain Link)	Each	5	3	24 49		1	25 31			3	5	4		1
604	Type "A" Inlet (H-5) (W.O. 21413)	Each		1	24 27						1		1		
607	Corner and Line Brace Post	Each	9	18	24 47						18	9	18	9	
604	Type "A" Inlet (H-15) (W.O. 21413)	Each		1	24 26						1		1		
607	Corner and Line Brace Post (Chain Link)	Each	18	25	24 50		6	25 32			25	18	31	1.3	
607	Fence Barbed Wire with Metal Posts	Lin. Ft.	4,300	7,395.4	24 48						7,395.4	4,300	7,395.4	3,095.4	
607	Fence Chain Link	Lin. Ft.	5,420	4,641.2	24 51		649	25 33			4,641.2	5,420	5,290.2		129.8
609	Curb and Gutter Type 2 (Section I-B)	Lin. Ft.	150	160.7	24 52						160.7	150	160.7	10.7	
609	Curb and Gutter Type 2 (Section II-B)	Lin. Ft.	150	51.9	24 53						51.9	150	51.9		108.1
609	Curb Type 6 (Section M)	Lin. Ft.	8,649	6,657.6	24 54						6,657.6	8,649	6,657.6		1,991.4

SUMMARY OF APPROXIMATE QUANTITIES REVISED

AS CORRECTED

(R-1) W.E.M. 1/28/69

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	COLORADO	F 032-(10)	4	

SPEC. ITEM NO.	ITEM	UNIT	Roadway	Roadway As Constructed	Reference	WO 21421 Non-Fed. Aid	Reference	Major Structure E-16-HC	E-16-HC As Constructed	Reference	Project Totals As Constructed Fed. Aid	PROJECT TOTALS	Project Totals As Constructed	Over	Under
612	Delineator (Type I)	Each	60	83	Book 24, Pg 55						83	60	83	23	-
612	Delineator (Type II)	Each	19	19	24 58						19	19	19	-	-
612	Right of Way Marker	Each	16	15	24 60						15	16	15	-	1
614	Flagging	Hour	3000	2573.5	24 61						2573.5	3,000	2,573.5		426.5
614	Pavement Marking Paint	Gals.	353	265	24 62						265	353	265		88
614	Barricade (Class I- Type F-1) Deleted by C.O. 11320	Each	1	0							0	1	0		1
615	Embankment Protector Type 4	Each	8	6	25 17						6	8	6		2
617	24 Inch Culvert Pipe	Lin. Ft.	442	285.7	25 18						285.7	442	285.7		156.3
617	30 Inch Culvert Pipe	Lin. Ft.	176	115.3	25 19						115.3	176	115.3		60.7
617	36 Inch Culvert Pipe	Lin. Ft.	126	282.6	25 20						282.6	126	282.6	156.6	
617	42 Inch Culvert Pipe	Lin. Ft.	236	245.1	25 21						245.1	236	245.1	9.1	
620	Field Office Deleted by C.O. 11383	Each	1	0	25 23						0	1	0		1
620	Field Laboratory	Each	1	1							1	1	1	-	-
620	Sanitary Facility Deleted by C.O. 11383	Each	2	0							0	2	0		2
626	Mobilization	L.S.	•	•							•	•	•		
STATE FORCES															
	Furnish & Install Identification Sign	Each	2	2	24 24						2	2	2	-	-
FORCE ACCOUNT															
	Railroad Flagging	L.S.	•	•							•	•	•		
	Furnish and install power lines for Flashing Yellow Beacon (Work by Public Service Co. of Colo.)	L.S.	•	•							•	•	•		
614	Sign Panel (Class I)	Sq. Ft.	260	203.93	24 65						203.93	260	203.93		56.07
614	Sign Panel (Class II)	Sq. Ft.	726	679.08	24 69						679.08	726	679.08		46.92
614	Sign Panel (Class III)	Sq. Ft.	704	892.25	24 72						892.25	704	892.25	188.25	
614	Timber Sign Post (4x4)	Lin. Ft.	488	408.5	24 76						408.5	488	408.5		79.5
614	Timber Sign Post (6x6)	Lin. Ft.	1,237	1,175.5	25 8						1,175.5	1,237	1,175.5		61.5
614	Steel Sign Post (6WF20)	Lin. Ft.	162	217.5	25 11						217.5	162	217.5	55.5	
614	Concrete Footing (Type I-C)	Each	8	8	25 12						8	8	8	-	-
614	Concrete Footing (Type I)	Each	4	8	25 13						8	4	8	4	
614	Modification of Timber Sign Post	Each	17	16	25 14						16	17	16		1
614	Flashing Yellow Beacon	Each	1	1	25 15						1	1	1	-	-
Utilities to be removed or relocated under Project															
No. F032-1(9).															
Public Service Co. (Gas & Electric)															
Mountain States Telephone Co.															

(R-1)

(R-1)

TABULATION OF WORK ORDERS

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1(10)	4AX	

WORK ORDER NUMBER	DATE	DESCRIPTION	ESTIMATED INCREASED COST	AS CONSTRUCTED COST			DIFFERENCE	ESTIMATED SAVINGS TO PROJECT	AS CONST. SAVINGS	DIFFERENCE	REMARKS
				INVOICED	AT BID PRICE	TOTAL					
											AS CONSTRUCTED AS CONSTRUCTED DATE <u>OCTOBER 23, 1970</u> REVISED DATE <u>OCT. 23, 1970</u>
11383 11382 11385 11389 11392 11393	3-10-69 3-11-69 3-19-69 3-26-69 4-7-69	Delete Field Office & Sanitary Facility 3'X3' C.B.C. at Sta. 153+ 8'X6' C.B.C. At Sta. 116+ Dbl. 10'X10' C.B.C. at Sta. 177+ Bkfill Coors Dbl. 10'X6' C.B.C. at Sta. 149+	1,500.00 8,360.00 1,310.00 2,800.00		230.80 8,983.75 1,033.80 3,160.00	230.80 8,983.75 1,033.80 3,160.00	- 1,269.20 + 623.75 - 276.20 + 360.00	1,500.00	1,500.00	0	
11395 11396 11397 11398 11399	4-25-69 5-2-69 5-19-69 5-19-69 5-20-69	Underdrain Lt 143+ & Rt 142+ Additional Signs Trash Guard on 3'X3' C.B.C. at Sta. 153+ Flood Damage at Sta. 117+ Plumbing Repair & Silo Bkfill	2,312.00 4,048.00 200.00 1,500.00 190.00		6,168.65 4,049.50 194.26 2,630.57 166.37	6,168.65 4,049.50 194.26 2,630.57 274.37	+ 3,856.65 + 1.50 - 5.74 + 1,130.57 + 84.37				
11400 21404 21405 21409 21411	5-23-69 8-26-69 8-21-69 10-8-69 10-10-69	36" Culvert on Easley Ramp Underdrain Lt 198+ to 205+ Clearing & Grubbing East of McIntyre Underdrain Lt 94 to 134 on 44th Underdrain Lt Sta 198+ to Sta 205+	1,525.00 2,995.00 3,700.00 19,448.00 12,463.00		1,576.50 4,451.00 3,147.00 22,538.20 12,050.40	1,576.50 4,451.00 3,147.00 22,538.20 12,050.40	+ 51.50 + 1,456.00 - 553.00 + 3,090.20 - 412.60				
21413 21414 21417 21420	10-14-69 10-13-69 10-10-69 11-14-69	Drop Inlets at Sta 134 BA on 44th Relocation of Grate Canal Lt Sta. 205+ Road to Bench 4 Underdrain Lt Sta. 118+ to 7475 Easley Ramp ~ Delete Bituminous Slope & Ditch Paving	1,100.00 3,000.00 3,553.00 12,445.50		900.00 3,974.80 3,260.50 12,331.40	900.00 3,974.80 3,260.50 12,331.40	- 200.00 - 1,025.20 - 292.50 - 114.10				
21421 21422 21423 21424 21425	3-6-70 4-14-70 4-14-70 5-5-70 6-3-70	Closing Lilly Lane Slide Lt Sta 111+ to 113+ Concrete Slope & Ditch Paving at Culvert Inlets Slide Lt Sta 111+ to 113+ Fence Benefits for W.O.s 21422 & 21424	4,635.63 1,500.00 15,000.00 280.25	25.00 1,476.85 15,900.59 280.25	4,913.91 251.28 15,900.59 280.25	4,938.91 1,728.13 15,900.59 280.25	+ 303.28 + 228.13 + 900.59 0	395.00	244.00	- 151.00	(Non Fed. Aid)
11320 11321 11391	10-23-70 10-23-70 3-26-69	Delete Items 208 Soil Sterilization, 409 Cover Coat Material (Median), 614 Barricade (Class I - Type F-1) Increased Haul Extend Dbl 10'X10' C.B.C. at 177+	13,753.00 0		15,848.00 15,659.75 15,659.75	15,848.00 15,659.75 15,659.75	- 93.25	1,160.00	1,160.00	0	Paid for by A Coors Co.
TOTALS			121,518.38	23,820.89	105,642.24	129,463.13	+ 7,944.75	3,055.00	2,904.00	- 151.00	

TABULATION OF SURFACING

STATION	STATION	LENGTH	AGGREGATE BASE COURSE CLASS I		AGGREGATE BASE COURSE CLASS 6		HOT BITUMINOUS PAVEMENT GRADING "E"		LIQUID ASPHALTIC MATERIAL (MC-70)		EMULSIFIED ASPHALT (SS-1b)	
			TONS		TONS		TONS		GALS.		DUST PALLIATIVE (3 Gal/Yd ²)	TACK. GALS. (105 Gal/Yd ²)
** 91+61	99+22	761.0'	5,343		1,398		1,237		2694			320
99+22	105+58.8	623.8'	4,380		1,146		1,014		2,209			262
105+372.4	142+00	3,662.8'	26,354		6,886		6,100		13,387			1,577
0+00	12+64	1,264.0'			1,905		677		2,813			351
0+4+25	9+50.7	525.7'	3,060		693		611		1,464			159
0+9+70	23+50	1,380.0'	5,134		1,366		1,007		2,622			306
As Constructed	Fed. Aid		43,608.7		11,828.05		10,114.35		17,589			1,334
Project Totals	Non-Fed Aid (W.O. 21421)				321.05		87.05					
PROJECT TOTALS			44,241		13,394		10,646		25,089		18,919	2,975

- * Subbase Estimated at 14 inches Thickness
 ** Approach to Project
 • Includes Haul
 • Includes Haul & Asphalt
 ▲ Temporary Connection
 • Easley Road Ramp

FENCING REQUIREMENTS

STATION	STATION	SIDE	REMOVE FENCE	BUILD FENCE		CORNER & LINE BRACE POSTS		END POSTS	
				LIN. FT.	CHAIN LINK	BARBED WIRE	CHAIN LINK	BARBED WIRE	CHAIN LINK
99+00	140+00	Lt.	500	424	424				
99+22	142+80	Rt.							
100+00	104+10	Rt.							
102+52		Rt.							
103+20		Lt.	202						
105+40	107+60	Rt.	377						
105+74		Lt.							
105+82		Rt.							
107+00		Lt.							
109+10		Rt.							
109+23		Lt.	202						
109+36		Rt.							
110+00		Lt.							
110+00		Rt.							
112+98		Lt.							
114+15		Rt.							
114+25	114+25	Lt.	280						
116+40		Rt.							
116+00		Lt.							
117+00		Rt.							
117+50		Lt.							
118+25		Rt.							
121+33		Lt.							
122+05		Rt.	330						
122+41		Lt.							
125+00		Rt.							
127+50		Lt.							
127+50		Rt.							
128+31		Lt.							
129+70		Rt.	300						
POST 131+50		Lt.							
POST 133+00		Rt.							
133+00		Lt.	660						
134+80		Rt.							
134+80		Lt.							
136+00		Rt.							
136+00		Lt.							
136+60	150+	Rt.			1132				
140+00		Lt.							
140+00		Rt.							
140+85		Lt.	550						
141+25		Rt.	365						
142+75		Lt.	310						
142+75		Rt.							
144+80		Lt.							
144+95		Rt.	450						
146+60		Lt.	794						
163+35		Rt.	180						
PROJECT TOTALS			5,500	4,247	5,418	9	18	+	5
As Const. Proj. Totals			8,779	7,395.4	4,641.2	18	25	13	3
Non-Fed Aid			233		649		6		1

TABULATION OF SLOPE & DITCH PAVING

STATION	STATION	SIDE	LENGTH	CONC. SLOPE & DITCH PAVING (Reinf.)		BITUMINOUS SLOPE & DITCH PAVING		DRY RUBBLE SLOPE & DITCH PAVING		STRUCTURE EXCAVATION (HAUL)	
				CU. YDS.	TONS	CU. YDS.	TONS	CU. YDS.	TONS	CU. YDS.	TONS
94+75	109+25	Lt.	975	3.21		298				3.2	
99+50		Rt.		5.18						5.2	
109+00		Lt.		0.17						0.2	
106+57		Rt.		4.44						4.4	
110+75	114+60	Lt.	385	1.39						1.4	
110+75	114+60	Rt.									
114+10	114+60	Lt.	385	0.29						0.3	
131+00		Rt.		1.46						1.5	
118+25	121+00	Lt.	275								
130+80		Rt.		0.38						0.4	
134+00		Lt.		1.09						1.1	
120+50		Rt.		0.30						0.3	
131+80		Lt.									
124+00		Rt.									
126+00	128+75	Lt.	275	0.25						0.3	
136+75		Rt.									
139+00		Lt.		0.24						0.2	
140+00		Rt.									
142+50		Lt.		2.52						2.5	
141+50	141+50	Rt.	1125	1.37						1.4	
152+00		Lt.		1.77						1.7	
177+87		Rt.		66.30						66.3	
150+	155+80	Rt.	390								
From Tab. of Shoulder Roll				2.32							
PROJECT TOTALS				68.62	1,054	63		24.1			

Details of Slope & Ditch Paving See Sheet no. 7

* Str. Quantities ~ Not Included in Roadway Quantities

TABULATION OF SHOULDER ROLL

STATION	STATION	SIDE	BITUMINOUS CURB	EMBANKMENT PROTECTORS	6" CSP	CONCRETE SLOPE & DITCH PAVING (REINF.)	BITUMINOUS SLOPE & DITCH PAVING	STRUCTURE EXCAVATION (HAUL)
			TYPE 6, SECT. M	TYPE 4	LIN. FT.	CU. YDS.	TONS	CU. YDS.
92+10		Rt.		+	18	0.29		4
92+10		Lt.		+	18	0.29		4
** 91+61	113+80	Lt.	67103722					
** 91+61	99+22	Rt.	6221722					
99+22	105+168	Lt.	624					
99+22	105+168	Rt.	624					
105+37.4	128+13	Lt.	2,294					
105+37.4	128+13	Rt.	2,294					
105+37.4	142+00	Rt.	3,663					
100+40		Lt.						
100+40-95+		Rt.		1	24.18	0.29		4.2.8
100+40		Rt.		+	50	0.29		19
100+40		Lt.		+	18	0.29		4
109+40		Rt.		1	357.34	0.29		7.3.4
115+00	114+10	Lt.		+	20	0.29		4
128+00		Rt.						
128+00	130+80	Rt.		1	18.514	0.29		3.2.4
135+50		Lt.						
135+50	133+80	Rt.		1	16.6			2.3
136+75		Lt.			10.5			1.9
140+00		Rt.			30.5			3.2
0+00	7+50 Temp. Cur. R.C.		759					
PROJECT TOTALS			6,657.8	6.8	1,363.8	2.32	8	16,040.8

** Approach to Project

* Carried to Slope & Ditch Paving Tab.

* Carried to List of Structures

TABULATION OF DELINEATORS

STATION	STATION	SIDE	TYPE I	TYPE II
			EACH	EACH
** 91+61	99+22	Lt.	12	
** 91+61	99+22	Rt.	12	
99+22	128+31	Lt.	10.9	
99+22	128+31	Rt.	8.9	
128+31	142+00	Lt.	4	11
128+31	142+00	Rt.	15	
0+00	12+64	Rt.	31.8	
0+4+25	9+50.7	Rt.	0+	8
0+4+25	9+50.7	Lt.	13	
AS CONST. PROJECT TOTALS			83.60	19

** Approach to Project

▲ Temporary Connection

• Easley Road Ramp

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F-032-1(10)	5	

AS CONSTRUCTED

REVISED DATE OCTOBER 23, 1970

TABULATION OF GUARD RAIL

STATION	STATION	LOCATION	TYPE 3	★ TYPE 5
			LIN. FT.	LIN. FT.
** 87+22	99+22	Rt.	1,276.7	
** 91+61	99+22	E	1,152	
99+22	100+08	Rt.	87.5	750
99+22	141+00	E		4,180
99+22	141+10	Lt.	150	4,716
108+75	140+25	Lt.	150	
113+55	118+68	Rt.	512.5	
115+00	118+68	Lt.	529.3	
115+00	142+00	Lt.	1,841.5	
123+25	141+00	Rt.	1,775	
141+00	6+50		775	
142+00	7+42		742.4	
Lilly Lane	(W.O. 21421) Non-Fed Aid		2,169.9	
PROJECT TOTALS			4,362	4,936

** Approach to Project

★ All Posts to be Embedded in Sand-Filled Socket in Concrete Base

SUMMARY OF EARTHWORK

UNCLASSIFIED EXCAVATION (Haul)		277.4
From List of Structures	-380 Cu.Yds.	380
From Cross Sections	-494.418 Cu.Yds.	494.418
Total	-494.418 Cu.Yds.	494.418
EMBANKMENT		629.572
From Cross Sections	-429.929 Cu.Yds.	429.929
From List of Structures	-60 Cu.Yds.	60
For Replacing Muck Excavation	-1,500 Cu.Yds.	1,500
Total Embankment	-429.929 Cu.Yds.	429.929
EMBANKMENT * FACTOR (16)	494.418 Cu.Yds.	494.418
EMBANKMENT (Standard)		629.572
Embankment (Net)	-429.929 Cu.Yds.	429.929
Bases of Cuts & Fills (1 dump)	-3,341.3 Cu.Yds.	3,341.3
Total	-429.929 Cu.Yds.	429.929
Muck Excavation (Haul)	-7,500 Cu.Yds.	7,500
As Const. Muck Excav. (Haul)	-27,401 Cu.Yds.	27,401
* 534 Cu.Yds. Unclass. Excav. (Non-Fed Aid) Not Included		

TABULATION OF R.O.W. MARKERS

LOCATION	SIDE	NUMBER
99+59.13	Rt.	2
105+37.2	Rt.	2
128+30.57	Rt.	2
143+02.79	Rt.	1-2
155+97.84	Rt.	2
166+28.27	Rt.	2

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F-032-1(10)	6	

[illegible]

HENNINGSON, DURHAM & RICHARDSON
ENGINEERS · PLANNERS · CONSULTANTS

CAPITOL LIFE CENTER
DENVER, COLORADO

- △ Quantities Included in Summary of Approximate Quantities.
- △ Tab. of Slope & Ditch Paving on Sheet No. 5

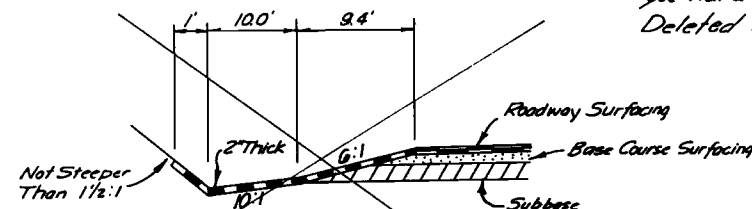
* Includes Quantities for
5000 Paying Lt

- ∞ Includes 1-13" Elbow
- § Includes 1-7" Elbow
- ¢ Misc. Pay Items

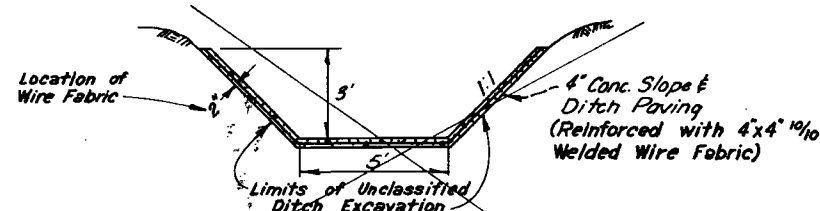
* For Information only, not a separate Bid Item.

▼ Includes Haul

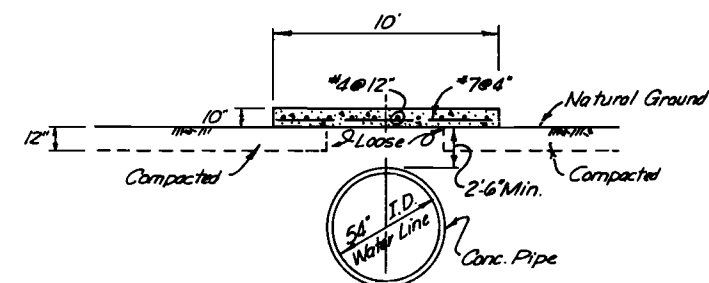
REVISÉ DATE
OCTOBER 23, 1970



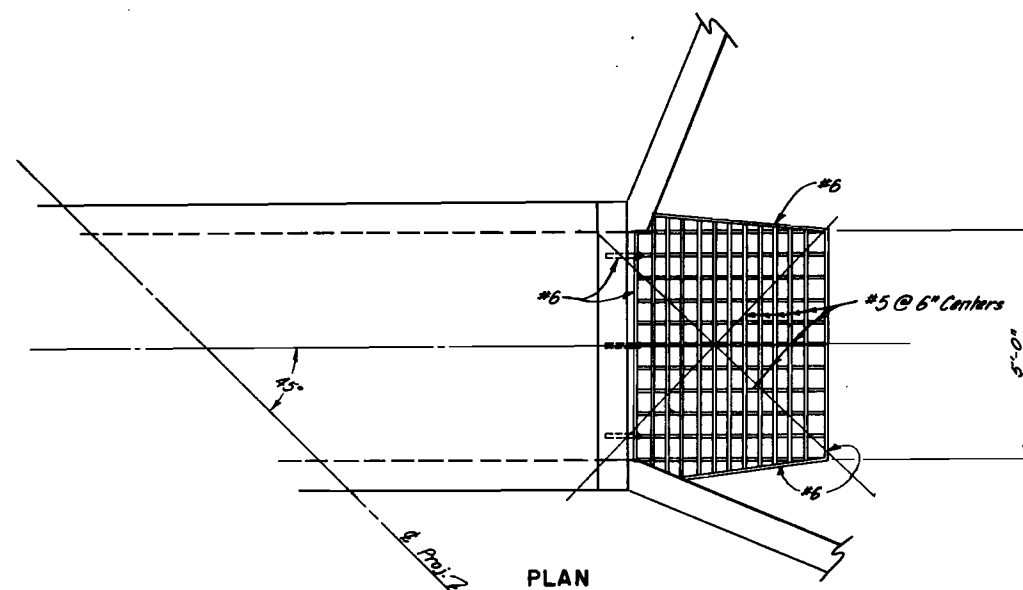
~~BITUMINOUS SLOPE & DITCH PAVING
TYPICAL SECTION
Deleted by W.O. 21420~~



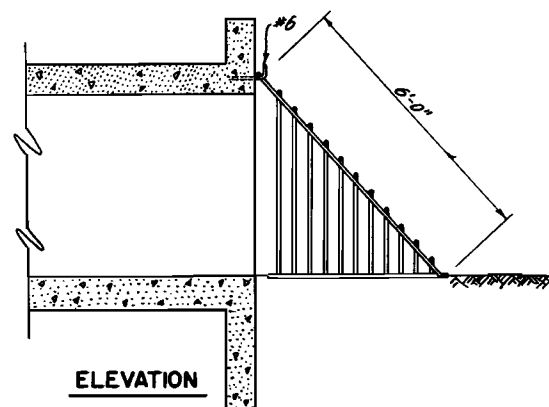
~~WANNEMAKER DITCH SECTION~~
~~Relocation @ Inlet & Outlet of~~
~~Structure 152+00~~
~~Deleted by W.O. 11385~~



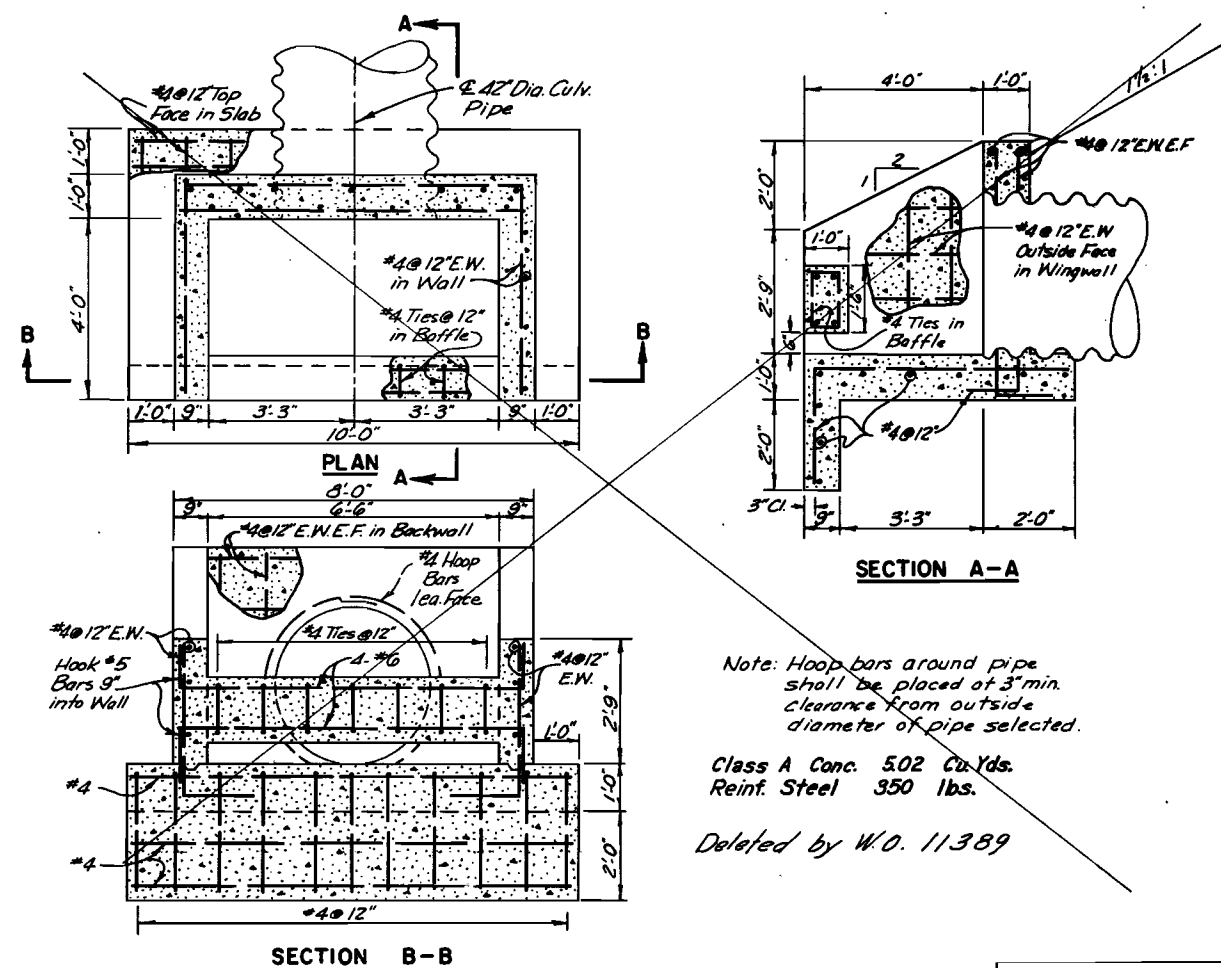
10" x 10' (width) x ^{80±}30' (length) REINF. CONC. SLAB
OVER DENVER WATER BOARD CONDUIT
Sta. 170 + 36±



Trash Guard Revised by W.O. 11397



WANNEMAKER DITCH (Sta. 151+) RT.
DETAIL OF TRASH GUARD (To be paid for as 220-lb. reinf. steel) ¹⁴⁸



~~Note: Hoop bars around pipe shall be placed at 3" min. clearance from outside diameter of pipe selected.~~

~~| | | |
|---------------|-----|----------|
| Class A Conc. | 502 | Cu. Yds. |
| Reinf. Steel | 350 | lbs. |~~

Deleted by W.O. 11389

SPECIAL OUTLET STRUCTURE
STA. 117+10

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CAPITOL LIFE CENTER
DENVER, COLORADO

THIS PROJECT ONLY

SINGLE CONCRETE BOX CULVERT

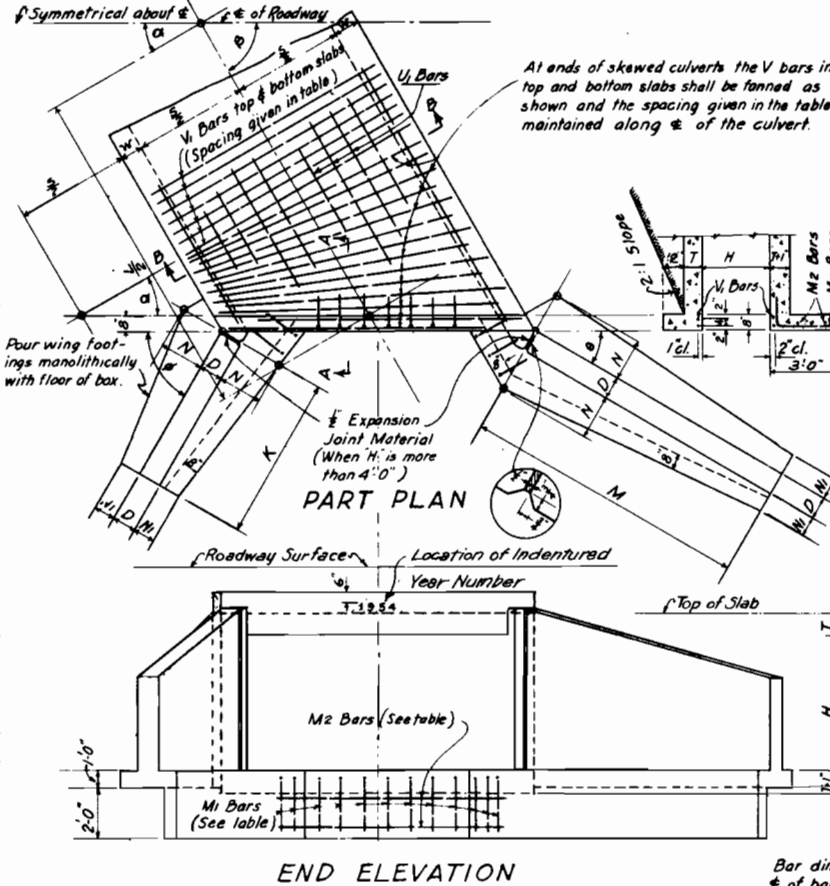
STANDARD M-60I-A

(JULY 1, 1965)

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLORADO	F032-1(10)	8

Dimensions & Quantities (see Wingwall Standard for Wings)

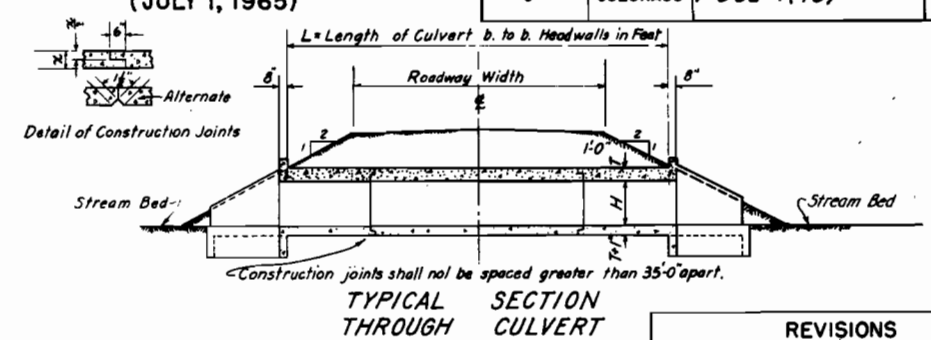
Height of Fill Allowed	Type	Span S	Height H	Slab T	Wall W	Bar Size & Spacing	No. Bars Required	Quantities for One Lin. Ft. of Box	Quantities for Two Headwalls
35'-0"	2A	2'-0"	6'-0"	8"	8"	3/4" @ 12"	8	0.232	0.464
30'-0"	3A	3'-0"	7'-0"	8"	8"	3/4" @ 12"	12	0.349	0.698
25'-0"	4A	4'-0"	8'-0"	8"	8"	3/4" @ 12"	16	0.462	0.924
20'-0"	5A	5'-0"	9'-0"	8"	8"	3/4" @ 12"	20	0.579	1.158
15'-0"	6A	6'-0"	10'-0"	8"	8"	3/4" @ 12"	24	0.696	1.392
10'-0"	7A	7'-0"	11'-0"	8"	8"	3/4" @ 12"	28	0.813	1.626
5'-0"	8A	8'-0"	12'-0"	8"	8"	3/4" @ 12"	32	0.930	1.860
35'-0"	2B	2'-0"	6'-0"	8"	8"	3/4" @ 12"	8	0.232	0.464
30'-0"	3B	3'-0"	7'-0"	8"	8"	3/4" @ 12"	12	0.349	0.698
25'-0"	4B	4'-0"	8'-0"	8"	8"	3/4" @ 12"	16	0.462	0.924
20'-0"	5B	5'-0"	9'-0"	8"	8"	3/4" @ 12"	20	0.579	1.158
15'-0"	6B	6'-0"	10'-0"	8"	8"	3/4" @ 12"	24	0.696	1.392
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35'-0"	2C	2'-0"	6'-0"	8"	8"	3/4" @ 12"	8	0.232	0.464
30'-0"	3C	3'-0"	7'-0"	8"	8"	3/4" @ 12"	12	0.349	0.698
25'-0"	4C	4'-0"	8'-0"	8"	8"	3/4" @ 12"	16	0.462	0.924
20'-0"	5C	5'-0"	9'-0"	8"	8"	3/4" @ 12"	20	0.579	1.158
15'-0"	6C	6'-0"	10'-0"	8"	8"	3/4" @ 12"	24	0.696	1.392
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5'-0"	8C	8'-0"	12'-0"	8"	8"	3/4" @ 12"	32	0.930	1.860
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30'-0"	3D	3'-0"	7'-0"	8"	8"	3/4" @ 12"	12	0.349	0.698
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20'-0"	5D	5'-0"	9'-0"	8"	8"	3/4" @ 12"	20	0.579	1.158
15'-0"	6D	6'-0"	10'-0"	8"	8"	3/4" @ 12"	24	0.696	1.392
10'-0"	7D	7'-0"	11'-0"	8"	8"	3/4" @ 12"	28	0.813	1.626
5'-0"	8D	8'-0"	12'-0"	8"	8"	3/4" @ 12"	32	0.930	1.860



Bar List for Culvert & Headwalls (See Wingwall Standard for Wings)

Mark	Size	No. Req'd	Type	Length
V1	See table	10	I	5'±2'-6"
W1	See table	6	I	H±2'-5"
U1	1/2"	See table	I	L±1'-0"
M1	1/2"	See table	II	3'-6"
M2	1/2"	4	I	5'±2'-6"

Possible Combinations (Span & Height)			
2' x 2'	5' x 5'	9' x 5'	10' x 7'
3' x 2'	7' x 4'	8' x 6'	9' x 8'
4' x 2'	6' x 5'	7' x 7'	12' x 6'
3' x 3'	8' x 4'	9' x 6'	11' x 7'
4' x 3'	7' x 5'	8' x 7'	13' x 6'
5' x 3'	6' x 6'	10' x 6'	10' x 8'
4' x 4'	8' x 5'	9' x 7'	9' x 9'
5' x 4'	6' x 7'	8' x 8'	12' x 7'
6' x 4'	7' x 6'	11' x 6'	14' x 6'

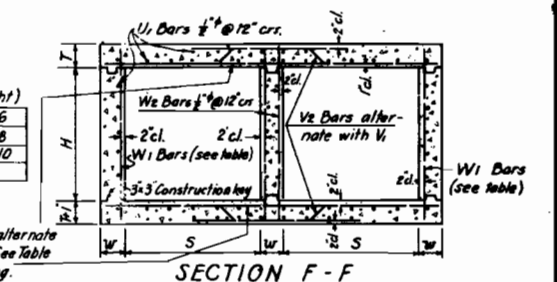
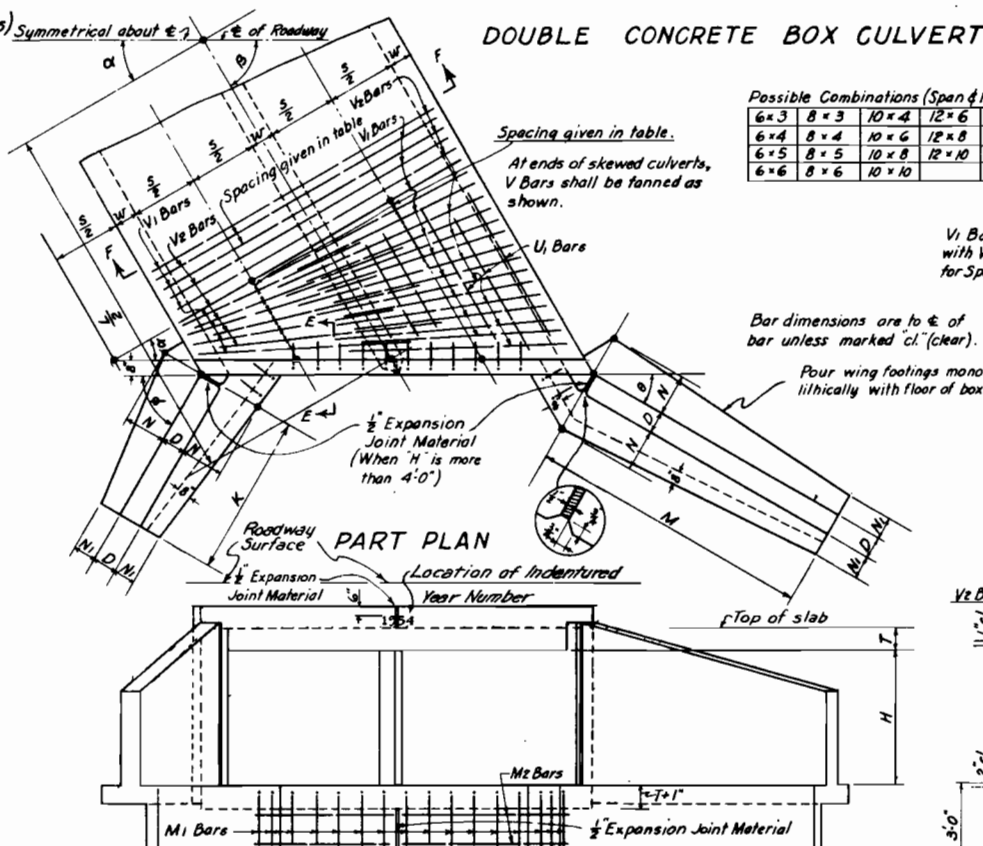


REVISIONS	

Dimensions & Quantities (see Wingwall Standard for Wings)

Height of Fill Allowed	Type	Span S	Height H	Slab T	Wall W	Bar Size & Spacing	No. Bars Required	Quantities for One Lin. Ft. of Box	Quantities for Two Headwalls
10'-0"	6'-6"	6'-0"	6'-0"	8"	8"	3/4" @ 12"	8	0.232	0.464
15'-0"	6'-6"	6'-0"	9'-0"	8"	8"	3/4" @ 12"	12	0.349	0.698
20'-0"	6'-6"	6'-0"	12'-0"	8"	8"	3/4" @ 12"	16	0.462	0.924
10'-0"	8'-8"	8'-0"	10'-0"	10"	10"	3/4" @ 12"	12	0.349	0.698
15'-0"	8'-8"	8'-0"	13'-0"	10"	10"	3/4" @ 12"	16	0.462	0.924
20'-0"	8'-8"	8'-0"	16'-0"	10"	10"	3/4" @ 12"	20	0.579	1.158
10'-0"	10'-10"	10'-0"	10'-0"	12"	12"	3/4" @ 12"	16	0.462	0.924
15'-0"	10'-10"	10'-0"	13'-0"	12"	12"	3/4" @ 12"	20	0.579	1.158
20'-0"	10'-10"	10'-0"	16'-0"	12"	12"	3/4" @ 12"	24	0.696	1.392
10'-0"	12'-12"	12'-0"	12'-0"	14"	14"	3/4" @ 12"	20	0.579	1.158
15'-0"	12'-12"	12'-0"	15'-0"	14"	14"	3/4" @ 12"	24	0.696	1.392
20'-0"	12'-12"	12'-0"	18'-0"	14"	14"	3/4" @ 12"	28	0.813	1.626
10'-0"	14'-14"	14'-0"	12'-0"	16"	16"	3/4" @ 12"	24	0.696	1.392
15'-0"	14'-14"	14'-0"	15'-0"	16"	16"	3/4" @ 12"	28	0.813	1.626
20'-0"	14'-14"	14'-0"	18'-0"	16"	16"	3/4" @ 12"	32	0.930	1.860

DOUBLE CONCRETE BOX CULVERT



Mark	Size	Number Required	Type	L	Total Length
V1	See table	24(L+2)	I	5'±15'-4"	L
W1	See table	24(L+2)	II	2'±2'-4"	L
U1	1/2"	See table	I	H±2'-4"	L
M1	1/2"	See table	II	L±12'-4"	L
M2	1/2"	8	I	3'-6"	L

DEPARTMENT OF HIGHWAYS
 STATE OF COLORADO
 SINGLE AND DOUBLE
 CONCRETE BOX CULVERTS
 (FOR SIZES SEE TABLE OF POSSIBLE COMBINATIONS)
 Designed by: WWD Approved by: J. H. Knecht
 Made by: WWD Bridge Engineer
 Checked by: T.J.M. Date: July 1, 1965

STANDARD M-60I-C

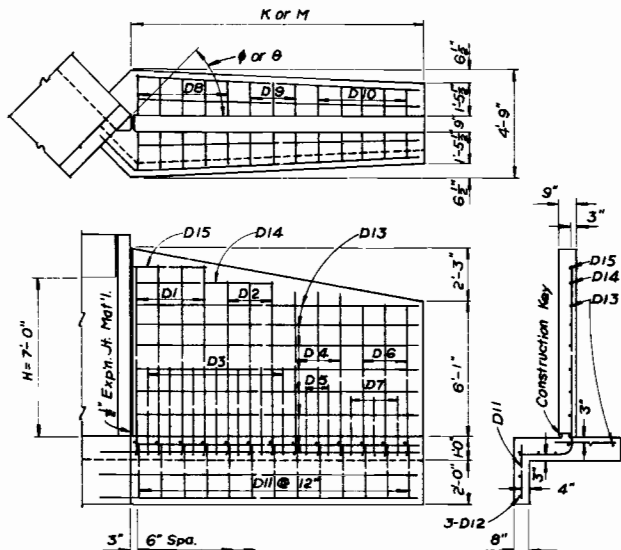
(SHEET 2)
(JULY 1, 1965)

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLO.	F 032-1(10)	9A

TABLE SHOWING VALUES OF K & M WHEN β & H ARE GIVEN

β	α	ϕ	θ	H=7'-0"		H=8'-0"		H=9'-0"		H=10'-0"	
				K	M	K	M	K	M	K	M
45°	45°	67°30'	22°30'	10'-0"	23'-9"	11'-0"	26'-9"	12'-3"	29'-6"	13'-6"	32'-3"
60°	30°	60°	30°	10'-6"	18'-3"	11'-9"	20'-6"	13'-0"	23'-9"	14'-3"	24'-9"
75°	15°	52°30'	37°30'	11'-6"	15'-0"	13'-0"	16'-9"	14'-3"	18'-6"	15'-9"	20'-3"
90°	0°	45°	45°	13'-0"	13'-0"	14'-6"	14'-6"	16'-0"	16'-0"	17'-6"	17'-6"
105°	15°	37°30'	52°30'	15'-0"	11'-6"	16'-9"	13'-0"	18'-6"	14'-3"	20'-3"	15'-9"
120°	30°	30°	60°	18'-3"	10'-6"	20'-6"	11'-9"	23'-9"	13'-0"	24'-9"	14'-3"
135°	45°	22°30'	67°30'	23'-9"	10'-0"	26'-9"	11'-0"	29'-6"	12'-3"	32'-3"	13'-6"
150°	60°	18'-3"	10'-6"	20'-6"	11'-9"	23'-9"	13'-0"	24'-9"	14'-3"	24'-9"	14'-3"

β equals the angle between ϕ of culvert and ϕ of roadway. α equals the angle between ϕ of culvert and a normal to ϕ of roadway. ϕ and θ are angles between the wingwall and a line parallel with the ϕ of roadway.
EXAMPLE FOR USING THE ABOVE TABLE. Suppose a stream makes an angle of $\beta=65^\circ$ with ϕ of roadway, then, from the table, select the nearest angle $\beta=60^\circ$, then α, ϕ, θ equal $30^\circ, 60^\circ, 30^\circ$ respectively. If the desired height "H" of culvert is 8'-0", then "K" & "M" will be 11'-9" & 20'-6". Locate the WING DETAIL WHEN H=8'-0" on this sheet.



WING DETAIL WHEN H=7'-0"

	ℓ	m	length
D1	7'-11"	1'-8"	10'-3"
D2	7'-4"	1'-6"	9'-6"
D3	3'-4"	1'-0"	5'-0"
D4	6'-9"	1'-5"	8'-10"
D5	2'-8"	1'-0"	4'-2"
D6	6'-3"	1'-3"	8'-2"
D7	2'-2"	9"	3'-7"

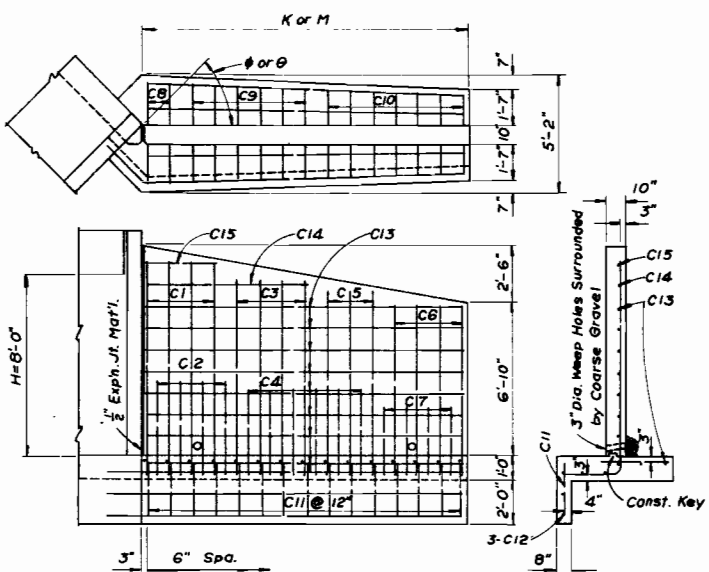
TYPE I

D8=2'-8"
D9=2'-6"
D10=2'-4"
D11=2'-6"

TYPE II

When θ or ϕ equals	Number of bars required											Length of bars				Quantities for	
	D1 $\frac{1}{2}\phi$	D2 $\frac{1}{4}\phi$	D3 $\frac{3}{8}\phi$	D4 $\frac{1}{2}\phi$	D5 $\frac{1}{2}\phi$	D6 $\frac{1}{2}\phi$	D7 $\frac{1}{2}\phi$	D8 $\frac{1}{2}\phi$	D9 $\frac{1}{2}\phi$	D10 $\frac{1}{2}\phi$	D11 $\frac{1}{2}\phi$	3-D12 $\frac{1}{2}\phi$	11-D13 $\frac{1}{2}\phi$	1-D14 $\frac{1}{2}\phi$	1-D15 $\frac{1}{2}\phi$	One Wing	
	Type I	Type I	Type I	Type I	Type I	Type I	Type I	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Cu.Yd.	Steel Lb.
22°30'	7	6	12	6	6	5	5	8	7	9	24	27'-4"	23'-5"	12'-2"	6'-2"	9.62	592
30°	5	5	9	5	5	4	4	6	6	7	19	20'-11"	17'-11"	9'-2"	4'-2"	7.39	457
37°30'	4	4	8	4	3	3	3	5	5	5	15	17'-2"	14'-8"	7'-2"	3'-2"	6.07	368
45°	4	3	7	3	2	3	3	5	3	5	13	14'-10"	12'-8"	6'-2"	3'-2"	5.26	321
52°30'	3	3	6	3	2	3	3	4	4	4	12	13'-10"	11'-2"	5'-2"	2'-2"	4.66	287
60°	3	3	5	3	2	2	2	4	3	4	11	12'-3"	10'-2"	5'-2"	2'-2"	4.25	262
67°30'	3	3	5	2	2	2	2	4	3	3	10	11'-4"	9'-8"	5'-2"	2'-2"	4.05	245

BAR LIST & QUANTITIES FOR ONE WING WHEN H=7'-0"



WING DETAIL WHEN H=8'-0"

	ℓ	m	length
C1	8'-10"	1'-11"	11'-5"
C2	3'-8"	1'-2"	5'-6"
C3	8'-3"	1'-9"	10'-8"
C4	3'-4"	1'-1"	5'-1"
C5	7'-8"	1'-8"	10'-0"
C6	7'-0"	1'-6"	9'-2"
C7	2'-7"	11"	4'-2"

TYPE I

C8=3'-0"
C9=2'-9"
C10=2'-6"
C11=2'-6"

TYPE II

When θ or ϕ equals	Number of bars required										Length of bars				Quantities for	
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	3-A11	13-A12	1-A13	1-A14	One	Wing
	Type I	Type I	Type I	Type I	Type I	Type I	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Concrete	Steel
															Cu.Yd.	Lb.
22°30'	9	16	8	8	16	8	10	12	11	33	36'-10"	31'-11"	16'-2"	8'-2"	19.74	1224
30°	7	12	6	6	12	6	7	10	8	25	28'-2"	24'-5"	12'-2"	6'-2"	15.14	930
37°30'	6	10	5	5	10	5	6	8	7	21	23'-1"	19'-11"	10'-2"	5'-2"	12.39	775
45°	5	9	4	5	8	4	5	7	6	18	19'-9"	17'-2"	8'-2"	4'-2"	10.71	665
52°30'	5	8	3	3	7	4	5	6	5	16	18'-9"	15'-5"	7'-2"	4'-2"	9.63	597
60°	4	7	4	3	7	4	4	6	5	15	16'-6"	13'-11"	7'-2"	3'-2"	8.72	543
67°30'	4	7	3	4	6	3	4	5	5	14	15'-2"	13'-2"	6'-2"	3'-2"	8.26	515
72°	4	7	3	4	6	3	4	5	5	14	15'-2"	13'-2"	6'-2"	3'-2"	8.26	515
12°	17	30	15	15	30	15	19	22	21	61	35'-0"	28'-4"	15'-2"	8'-2"	36.42	2281

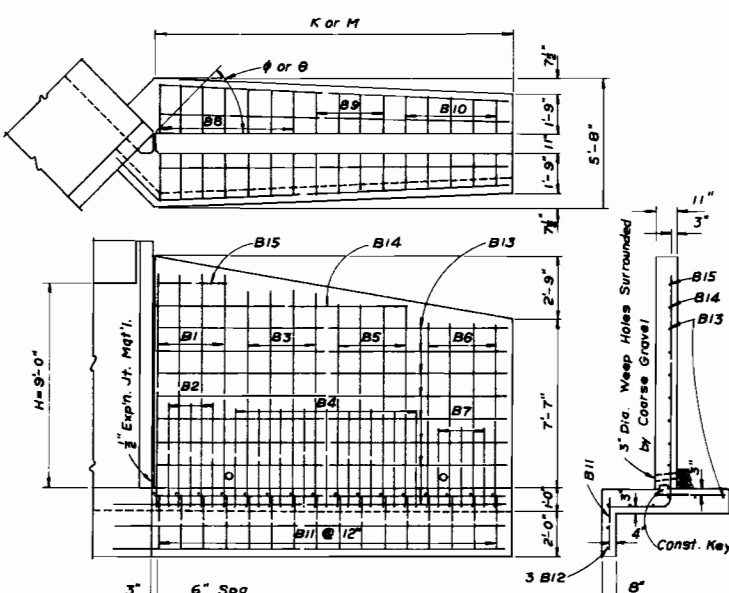
BAR LIST & QUANTITIES FOR ONE WING WHEN H=10'-0"

When or θ equals	Number of bars required											Length of bars				Quantities for	
	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	3-C12	12-C13	1-C14	1-C15	One	Wing
	$\frac{1}{2}\phi$ Type I	$\frac{1}{2}\phi$ Type I	$\frac{3}{4}\phi$ Type I	$\frac{3}{4}\phi$ Type I	$\frac{1}{2}\phi$ Type I	$\frac{1}{2}\phi$ Type I	$\frac{1}{2}\phi$ Type I	$\frac{3}{4}\phi$ Type II	$\frac{1}{2}\phi$ Type II	$\frac{3}{4}\phi$ Type II	$\frac{1}{2}\phi$ Type II	$\frac{1}{2}\phi$ Type II	$\frac{1}{2}\phi$ Type II	$\frac{1}{2}\phi$ Type II	$\frac{1}{2}\phi$ Type II	Concrete	Steel
22°30'	8	7	6	12	6	7	7	5	10	12	27	30'-8"	26'-5"	13'-2"	7'-2"	12.53	779
30°	6	5	5	10	4	6	5	4	7	10	21	23'-5"	20'-2"	10'-2"	5'-2"	9.60	601
37°30'	5	4	4	8	4	4	4	3	6	8	17	19'-1"	16'-5"	8'-2"	4'-2"	7.84	487
45°	4	4	4	6	3	4	4	2	6	7	15	16'-6"	14'-2"	7'-2"	3'-2"	6.79	424
52°30'	4	3	3	6	3	3	3	2	5	6	13	15'-6"	12'-8"	6'-2"	3'-2"	6.08	374
60°	4	3	2	6	3	3	2	2	4	6	12	13'-8"	11'-5"	5'-2"	3'-2"	5.50	341
67°30'	3	3	3	5	2	3	2	2	4	5	11	12'-5"	10'-8"	5'-2"	2'-2"	5.15	315

BAR LIST & QUANTITIES FOR ONE WING WHEN H=8'-0"

When ϕ or θ equals	Number of bars required											Length of bars				Quantities for	
	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	3-B12	12-B13	1-B14	1-B15	One	Wing
	$\frac{1}{2} \phi$ Type I	$\frac{1}{4} \phi$ Type I	$\frac{3}{8} \phi$ Type I	ϕ Type I	$\frac{1}{2} \phi$ Type I	$\frac{1}{2} \phi$ Type I	$\frac{1}{2} \phi$ Type I	$\frac{3}{8} \phi$ Type II	$\frac{1}{2} \phi$ Type II	$\frac{1}{2} \phi$ Type II	$\frac{1}{2} \phi$ Type II	$\frac{1}{2} \phi$ Type II	$\frac{1}{2} \phi$ Type II	$\frac{1}{2} \phi$ Type II	$\frac{1}{2} \phi$ Type II	Concrete Cu.Yd.	Steel Lb.
22°30'	7	6	8	16	8	7	7	13	8	9	30	33'-9"	29'-2"	22'-2"	6'-2"	15.93	930
30°	5	5	7	13	6	6	5	10	7	7	24	27'-0"	23'-5"	17'-2"	4'-2"	12.82	742
37°30'	4	4	5	10	5	5	4	8	5	6	19	21'-1"	18'-2"	13'-2"	3'-2"	9.98	580
45°	4	3	4	9	4	4	3	7	4	5	16	18'-2"	15'-8"	11'-2"	3'-2"	8.63	495
52°30'	3	3	4	8	4	4	3	6	4	5	15	17'-0"	13'-11"	10'-2"	2'-2"	7.69	453
60°	3	3	4	7	3	3	2	6	3	4	13	15'-1"	12'-8"	9'-2"	2'-2"	7.01	406
67°30'	3	2	3	7	4	3	3	5	3	5	13	13'-9"	11'-11"	9'-2"	2'-2"	6.61	385

BAR LIST & QUANTITIES FOR ONE WING WHEN H=9'-0"



WING DETAIL WHEN H=9'-0"

	ℓ	m	length
B1	9'-11"	2'-3"	12'-10"
B2	4'-2"	1'-4"	6'-2"
B3	9'-2"	2'-1"	11'-11"
B4	3'-11"	1'-5"	5'-10"
B5	8'-5"	1'-10"	10'-11"
B6	7'-9"	1'-9"	10'-2"
B7	3'-1"	1'-1"	4'-10"

TYPE I

B8=3'-3"
B9=2'-9"
B10=2'-7"
B11=2'-6"

TYPE II

REVISIONS	

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

WINGWALLS FOR
CONCRETE BOX CULVERTS
4:1 SIDE SLOPES

Across _____ Sta. _____

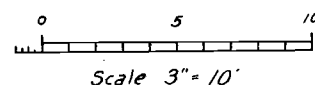
Near _____ Sec. _____ T. _____ R. _____

Designed by L. D. P. _____
Made by J. W. M. E. L. S. _____
Checked by A. T. E. D. S. _____

Approved by _____
Bridge Engineer
Date: July 1, 1965

STRUCTURE NO. _____

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F032-1(10)	9B	

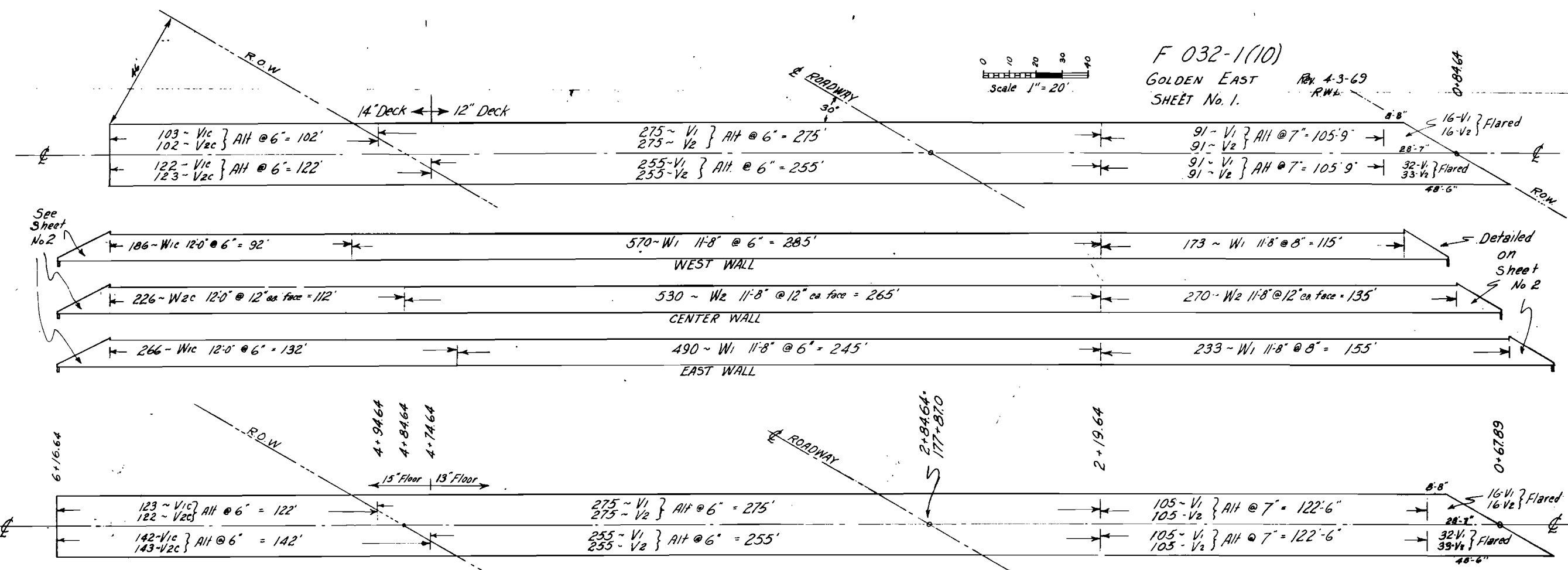
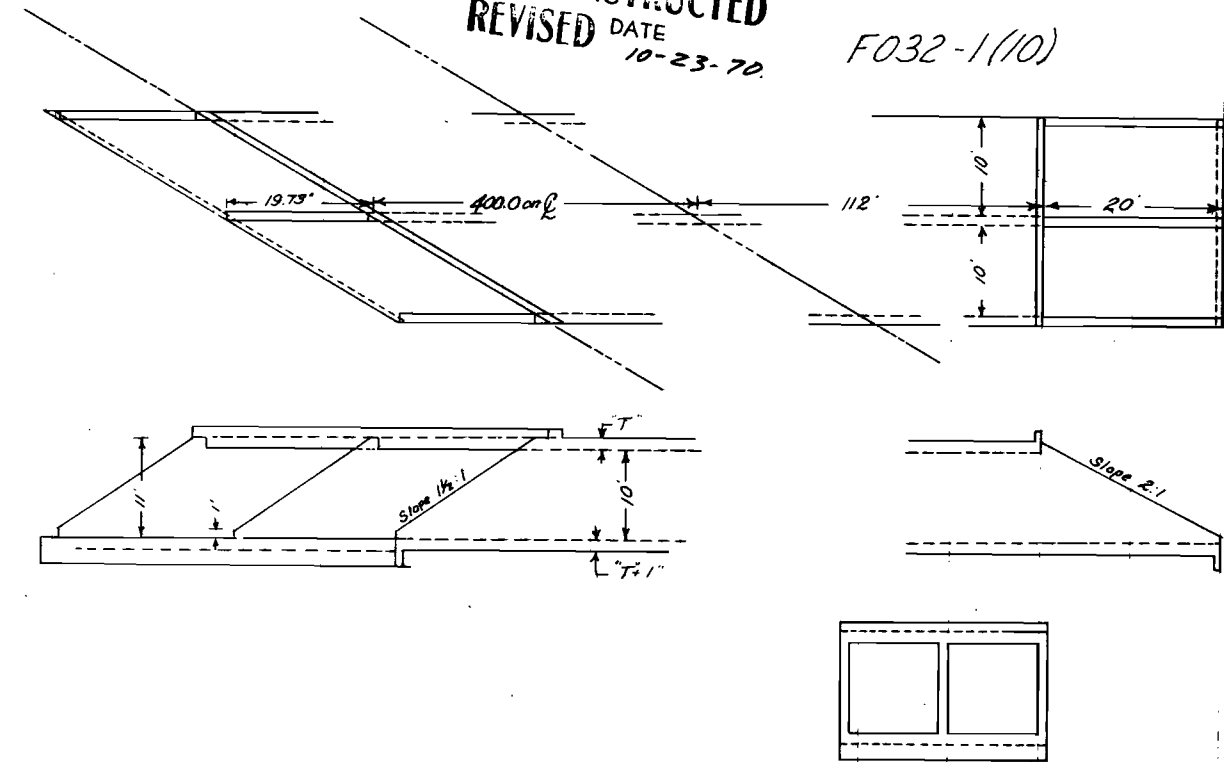
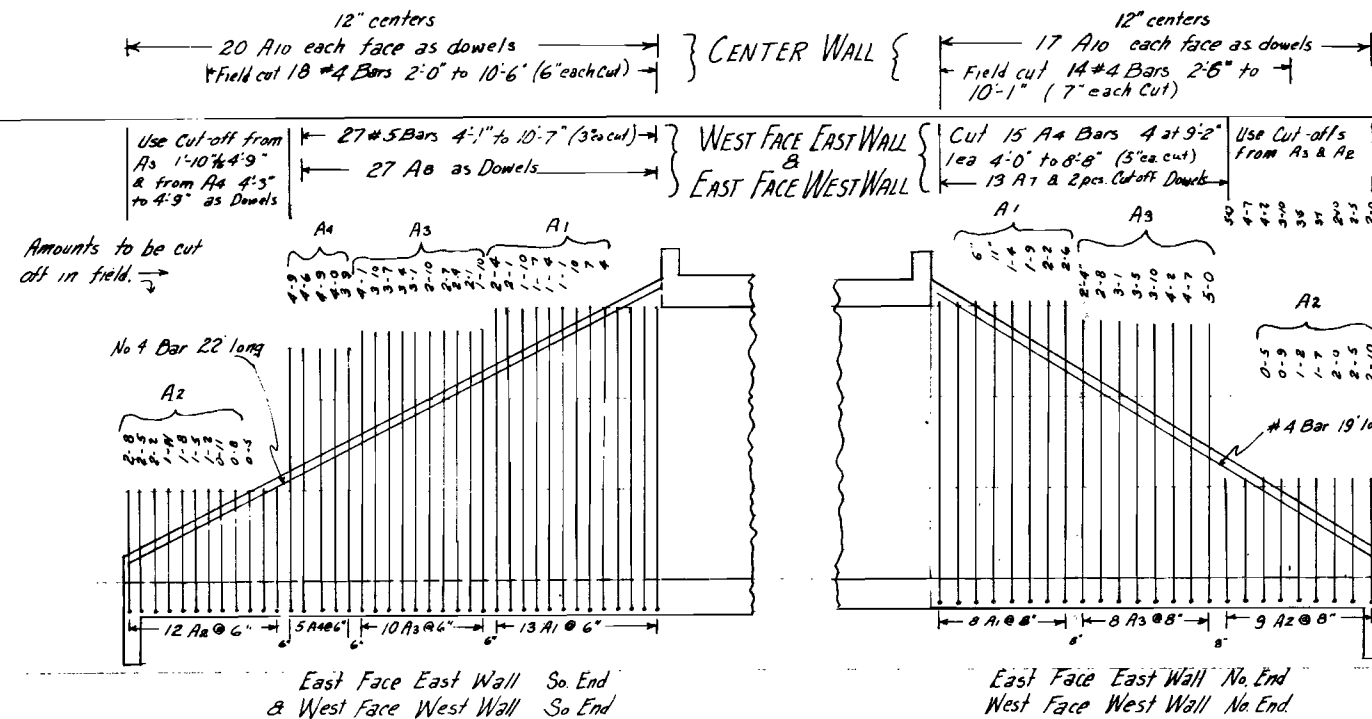


F 032-1(10)
GOLDEN EAST
SHEET No. 2

REV 4-3-69
RWL

AS CONSTRUCTED
REVISED DATE
10-23-70

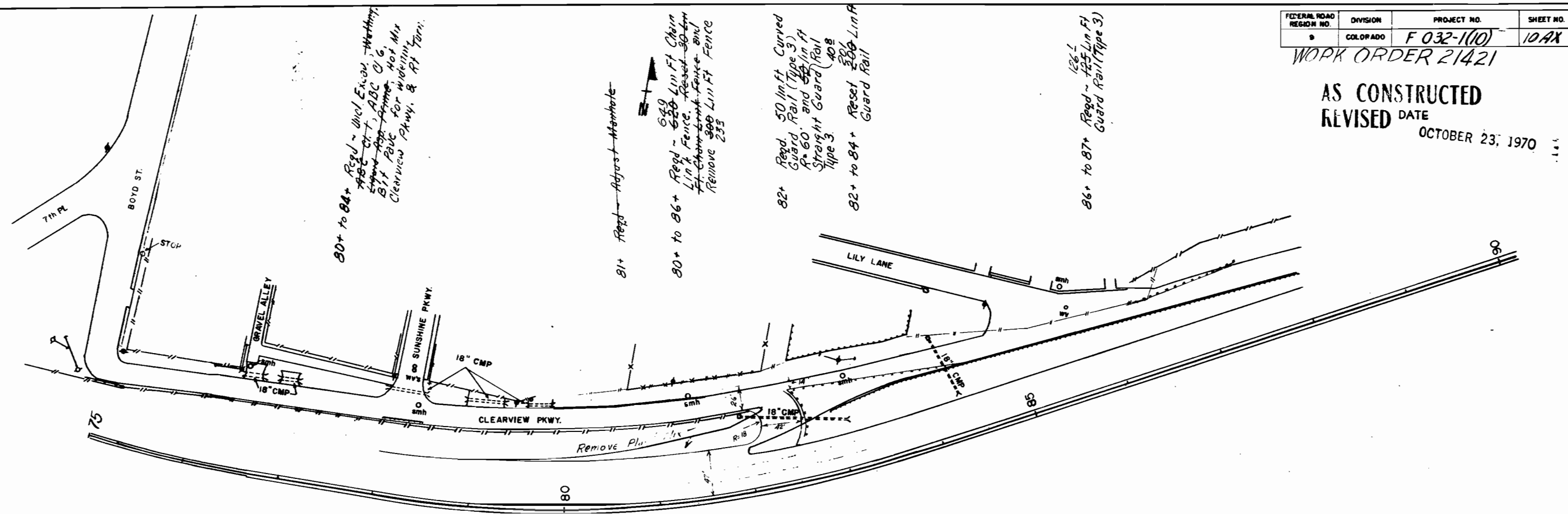
F032-1(10)



Use 1:10 Flare when approach speed is 50mph or less.
Use 1:15 Flare when approach speed is more than 50mph.

PLAN
SURVEYED
PLOTTED
BY
DATE
BY
NO.

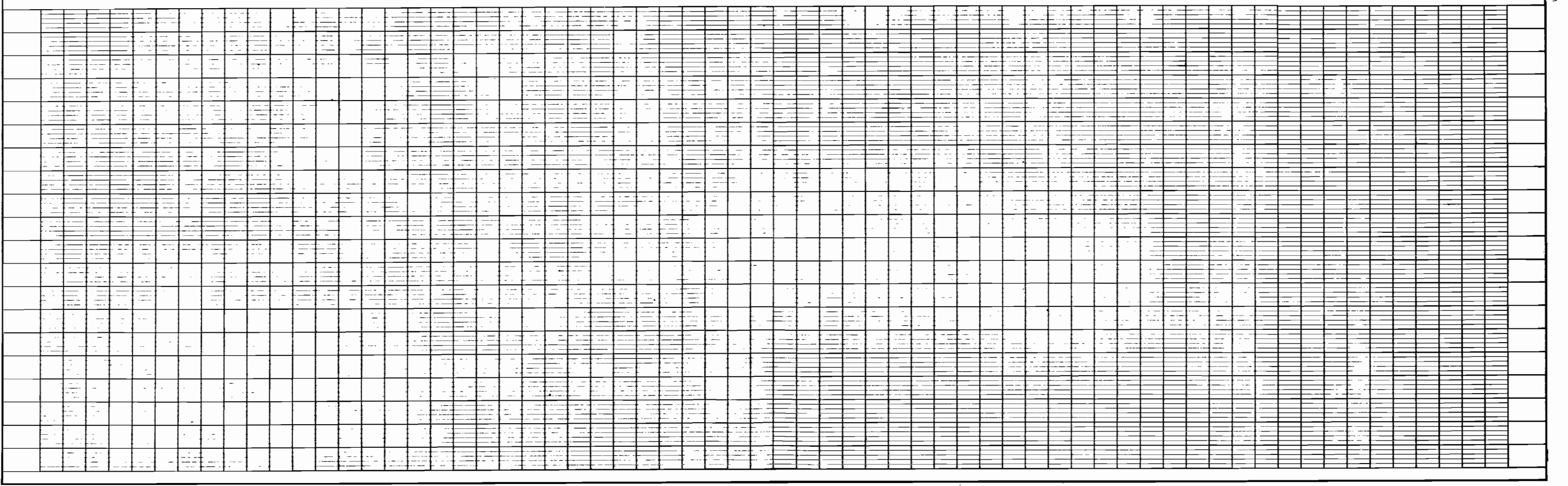
PROFILE
SURVEYED
PLOTTED
BY
DATE
BY
NO.



FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLORADO	F 032-1(10)	10AX

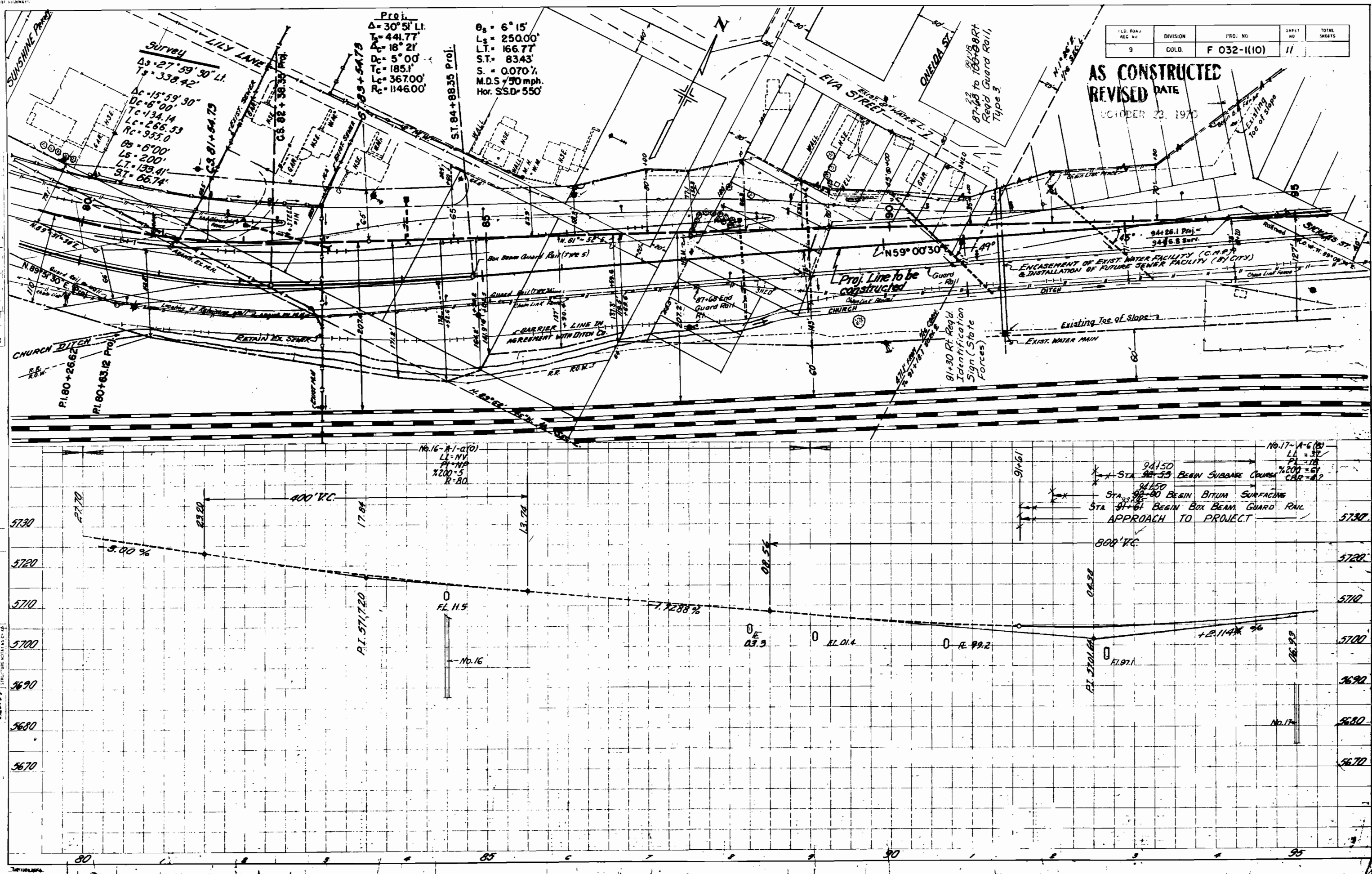
WORK ORDER 21421

AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970



NOTES:
1. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
2. ALL ANGLES IN DEGREES UNLESS OTHERWISE NOTED.
3. ALL DISTANCES IN FEET UNLESS OTHERWISE NOTED.
4. ALL ELEVATIONS IN FEET UNLESS OTHERWISE NOTED.
5. ALL GRADES IN PERCENT UNLESS OTHERWISE NOTED.
6. ALL CURVE DATA IN FEET UNLESS OTHERWISE NOTED.
7. ALL SLOPES IN PERCENT UNLESS OTHERWISE NOTED.
8. ALL RAILROADS AND HIGHWAYS SHOWN AS EXISTING UNLESS OTHERWISE NOTED.
9. ALL PROPOSED CHANGES SHOWN AS PROPOSED UNLESS OTHERWISE NOTED.
10. ALL PROPOSED CHANGES SHOWN AS PROPOSED UNLESS OTHERWISE NOTED.

NOTES:
1. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
2. ALL ANGLES IN DEGREES UNLESS OTHERWISE NOTED.
3. ALL DISTANCES IN FEET UNLESS OTHERWISE NOTED.
4. ALL ELEVATIONS IN FEET UNLESS OTHERWISE NOTED.
5. ALL GRADES IN PERCENT UNLESS OTHERWISE NOTED.
6. ALL CURVE DATA IN FEET UNLESS OTHERWISE NOTED.
7. ALL SLOPES IN PERCENT UNLESS OTHERWISE NOTED.
8. ALL RAILROADS AND HIGHWAYS SHOWN AS EXISTING UNLESS OTHERWISE NOTED.
9. ALL PROPOSED CHANGES SHOWN AS PROPOSED UNLESS OTHERWISE NOTED.
10. ALL PROPOSED CHANGES SHOWN AS PROPOSED UNLESS OTHERWISE NOTED.



FILE NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 032-II(10)	11	

AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970

Proj.
 $\Delta = 30^\circ 51' \text{ Lt.}$
 $T_s = 441.77'$
 $L_c = 18^\circ 21'$
 $D_c = 5^\circ 00'$
 $T_c = 185.1'$
 $L_c = 367.00'$
 $R_c = 1146.00'$
 $\theta_s = 6^\circ 15'$
 $L_s = 250.00'$
 $L.T. = 166.77'$
 $S.T. = 83.43'$
 $S = 0.070\%$
 $M.D.S. = 50 \text{ mph.}$
 $\text{Hor. SSD} = 550'$

SURVEY
 $\Delta_s = 27^\circ 59' 30'' \text{ Lt.}$
 $T_s = 338.42'$
 $\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$
 $\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

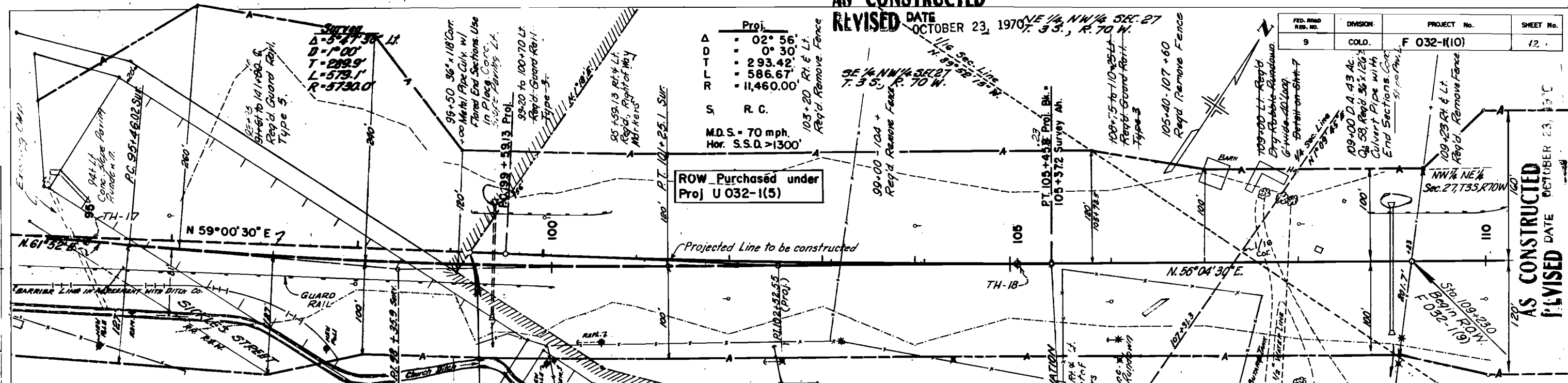
$\theta_s = 6^\circ 00'$
 $L_s = 200'$
 $L.T. = 133.41'$
 $S.T. = 66.74'$

$\Delta_c = 15^\circ 59' 30''$
 $D_c = 6^\circ 00'$
 $T_c = 134.14'$
 $L_c = 266.53'$
 $R_c = 935.0'$

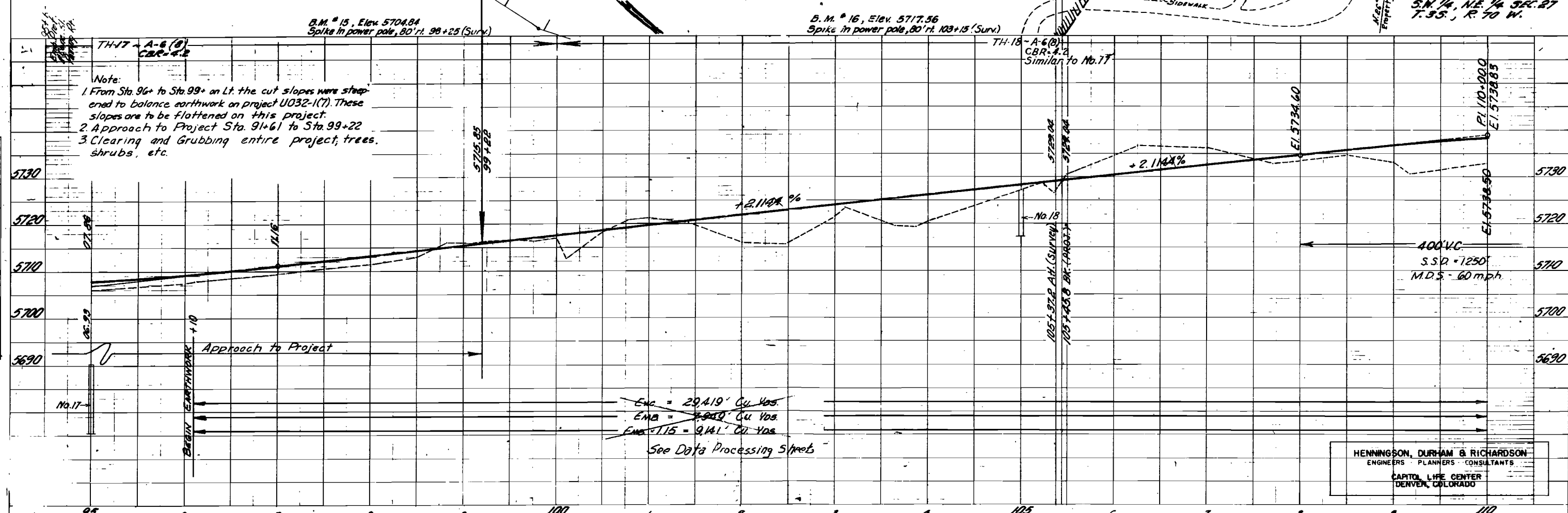
AS CONSTRUCTED

REVISED DATE OCTOBER 23, 1970 NE 1/4, NW 1/4 SEC. 27 T. 3 S., R. 70 W.

FED. ROAD DIST. NO.	DIVISION	PROJECT No.	SHEET No.
9	COLD.	F 032-1(10)	12



NOTE: ALIGNMENT AND GRADES AS SHOWN ARE SUBJECT TO MODIFICATION DURING CONSTRUCTION AFTER APPROVAL BY THE DISTRICT 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 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 EMBANKMENT.



HENNINGSON, DURHAM & RICHARDSON
ENGINEERS PLANNERS CONSULTANTS
CAPITOL LIFE CENTER
DENVER, COLORADO

N.W. 1/4 N.E. 1/4, Sec. 27
T.3S., R.70W.

Proj. "A"
Δ 1°39'30" Rt
D = 0°15'
T 331.71
L 663.33
R = 22,920.0'
S = R.C.

114+25 Rt. & Lt.
Reg'd. Remove
Fence

115+00 Survey

113+55 to 118+50
Reg'd. Guard Rail,
Type 3.

117+10 D.A. = 244 Ac.
Q = 200 Reg'd. 42" C.C.
Culvert Pipe with End
Section of Inlet. Special
Detail on Sht. 2.

119+50 E (100')
Culvert in 8'x6' C.B.C.
115+00 to 118+00 Lt.
Reg'd. Guard Rail,
Type 3.

118+50 Lt. & Lt.
Ramp = 6' x 2498' C.S.P.
Underdrain
W.O. 21420

118+00 Lt. Reg'd.
Build Earth Dike
to Elev. 5555.5'

118+00 Ditch
Q = 16 Reg'd. 42"
Culvert Pipe
with End Sections

120+50 Lt. Reg'd.
Dry Rubble Run-down
6' width 41' length
Detail on Sht. 2.

R-2 Change R.Q.W.
11-4-69 W.E.M.

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLO.	F 032-K(10)	13

R-1 4-4-69 W.E.M.
8'x6' 107' C.B.C.

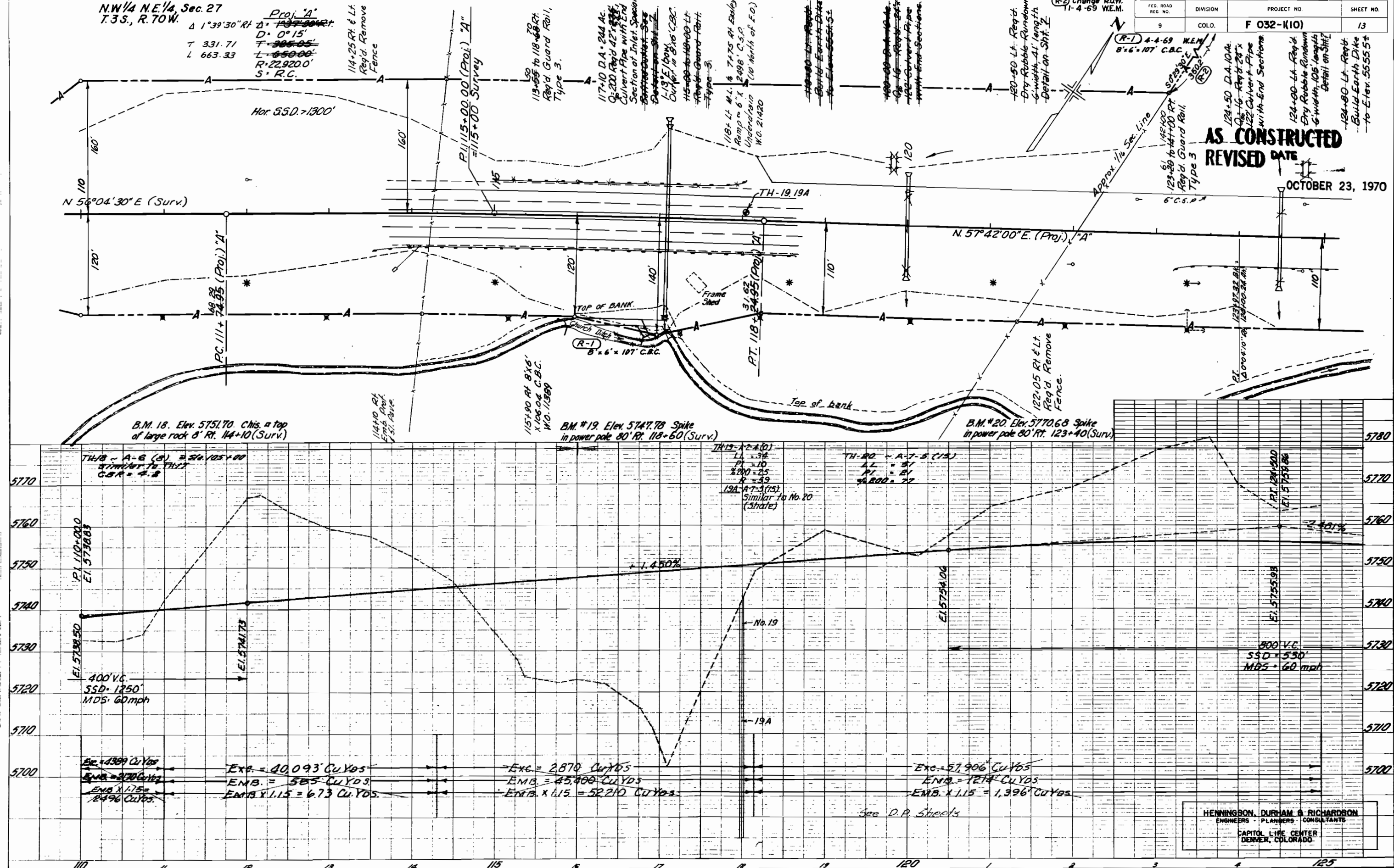
124+50 D.A. 104 Ac.
Q = 16 Reg'd. 42"
Culvert Pipe
with End Sections

124+00 Lt. Reg'd.
Dry Rubble Run-down
6' width 105' length
Detail on Sht. 2.

124+80 Lt. Reg'd.
Build Earth Dike
to Elev. 5555.5'

AS CONSTRUCTED
REVISED DATE

OCTOBER 23, 1970



HENNINGSON, DURHAM & RICHARDSON
ENGINEERS - PLANNERS - CONSULTANTS
CAPITOL LIFE CENTER
DENVER, COLORADO

(R-1) Note: for R.W. and Slope Limits see R.W. Plans
(North Side) Too distant to show on this sheet.

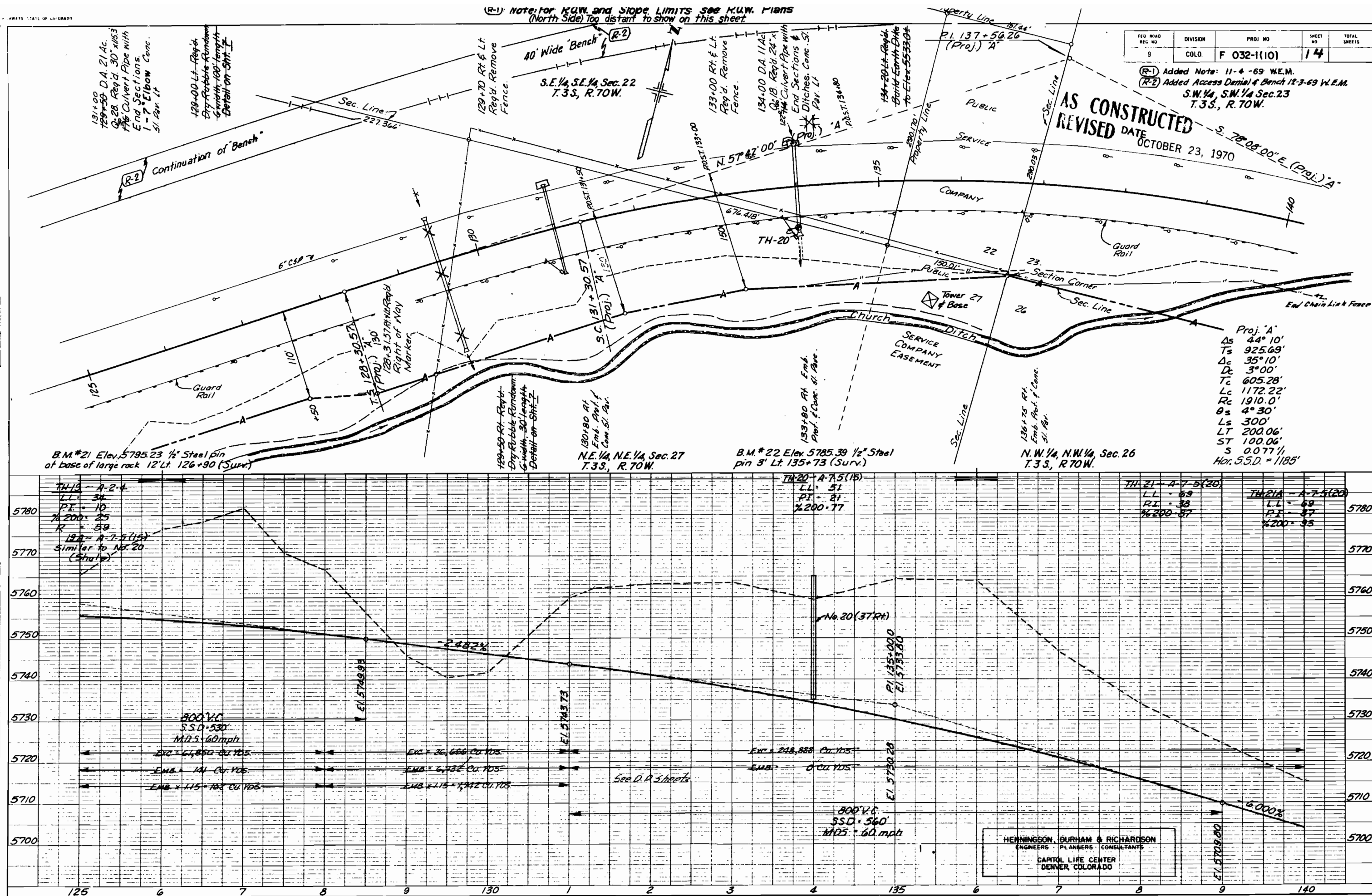
FED ROAD REG NO	DIVISION	PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO.	F 032-1(10)	14	

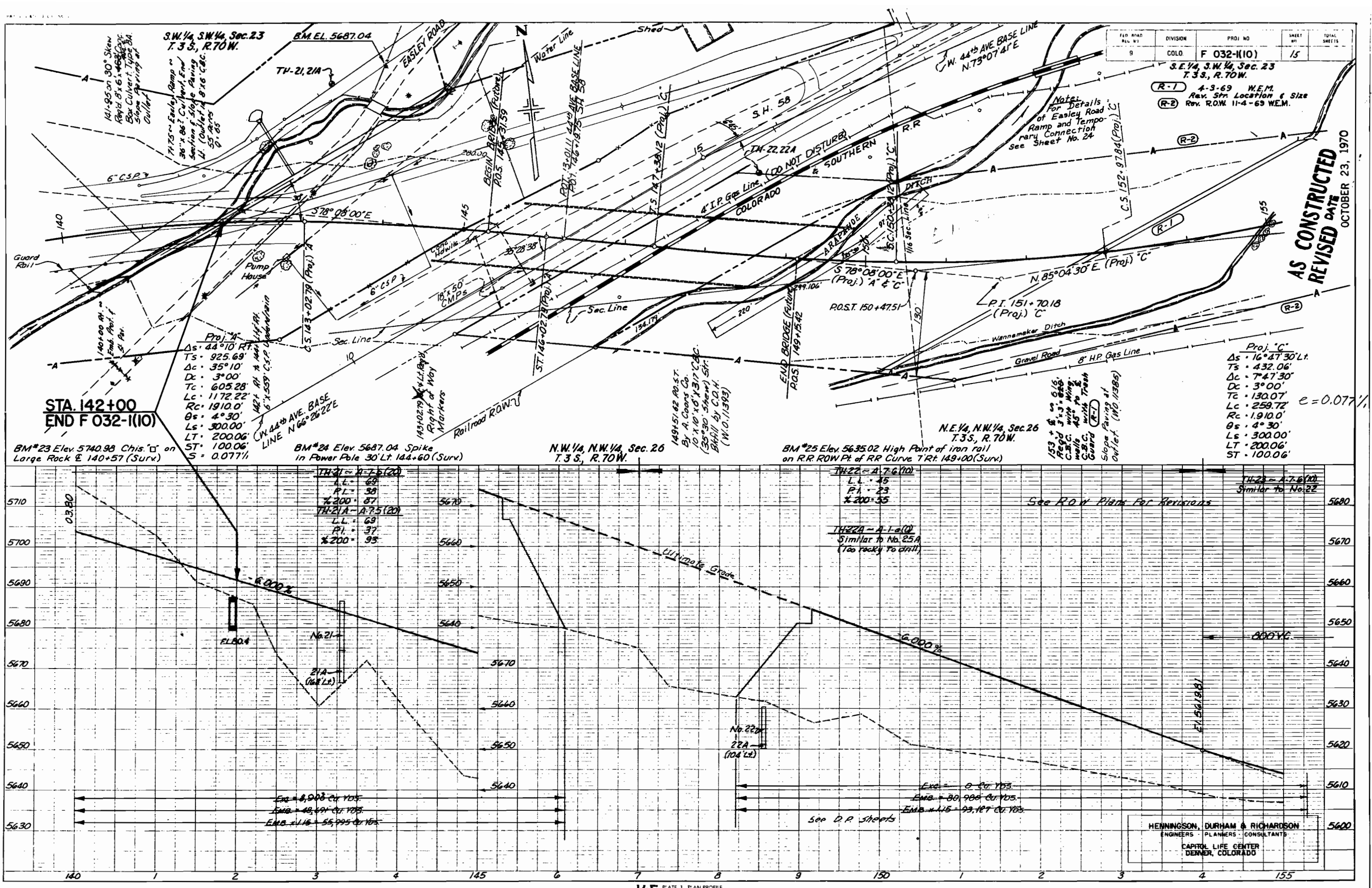
(R-1) Added Note: 11-4 -69 W.E.M.
(R-2) Added Access Denial & Bench 12-3-69 W.E.M.
S.W. 1/4, S.W. 1/4 Sec. 23
T. 3S., R. 70W.

AS CONSTRUCTED
REVISED DATE

OCTOBER 23, 1970

ED - S. 76° 08' 00" E. (Proj.) "A"
 ER 23, 1970





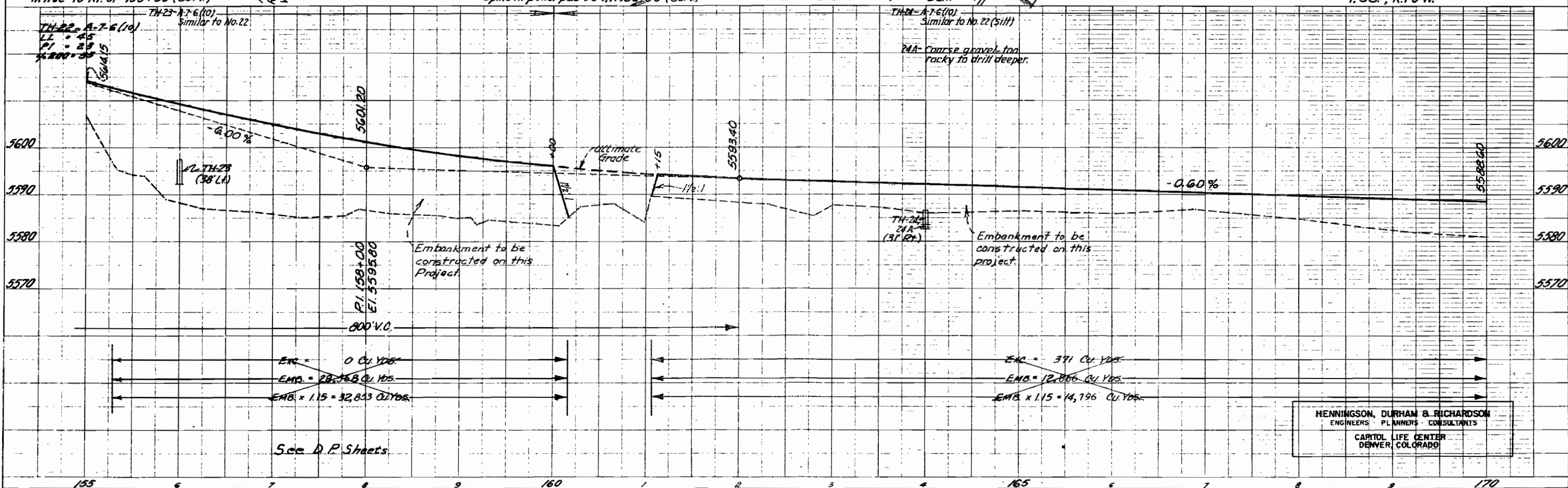
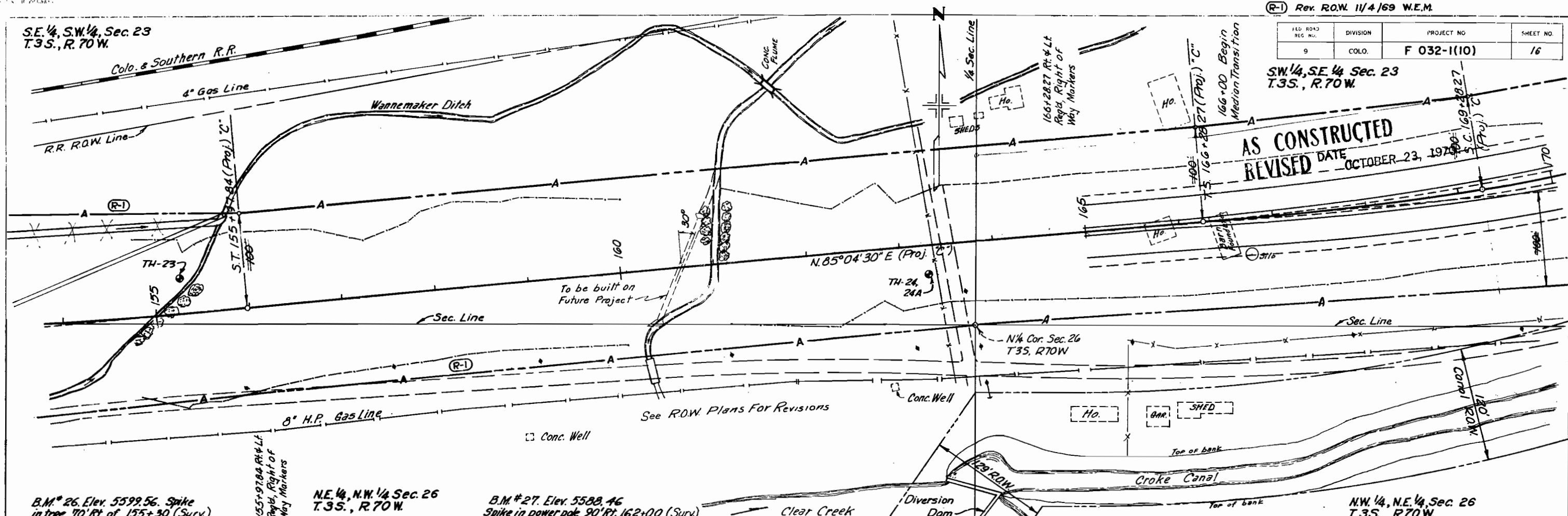
SE 1/4, SW 1/4, Sec. 23
T3S, R.70W.

(R-1) Rev. R.O.W. 11/4/69 W.E.M.

REG. NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLO.	F 032-1(10)	16

SW 1/4, SE 1/4 Sec. 23
T3S, R.70W.

AS CONSTRUCTED
REVISED DATE OCTOBER 23, 1970



HENNINGSON, DURHAM & RICHARDSON
ENGINEERS - PLANNERS - CONSULTANTS
CAPITOL LIFE CENTER
DENVER, COLORADO

$e=0.0771$

SW 1/4, SE 1/4 Sec. 23
T. 35., R. 70 W.

(R-3) Rev. R.O.W. 11-4-69 W.E.M. (R-1) Added Water Right
for Croke Canal. W.E.M. 1/28/69
(R-2) 4-4-69 W.E.M.
Rev. Structure Location

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLO.	F 032-1(10)	17

SE 1/4, SE 1/4, Sec. 23
T. 35., R. 70 W.

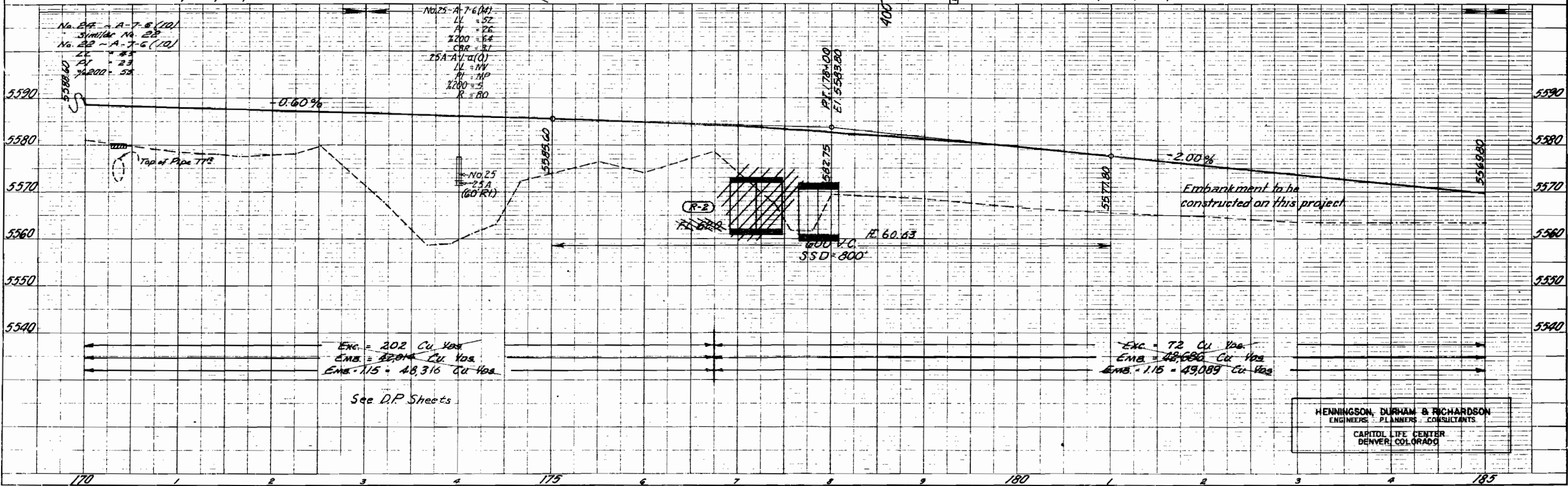
AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970

NW 1/4, NE 1/4, Sec. 26
T. 35., R. 70 W.

B.M. #28 Elev. 5576.75
Spike in power pole 120' Rt. 172+00 (Surv.)

SE 1/4, SE 1/4, Sec. 23
T. 35., R. 70 W.

B.M. #29 Elev. 5566.24
Spike in power pole 125' Rt. 182+10 (Surv.)



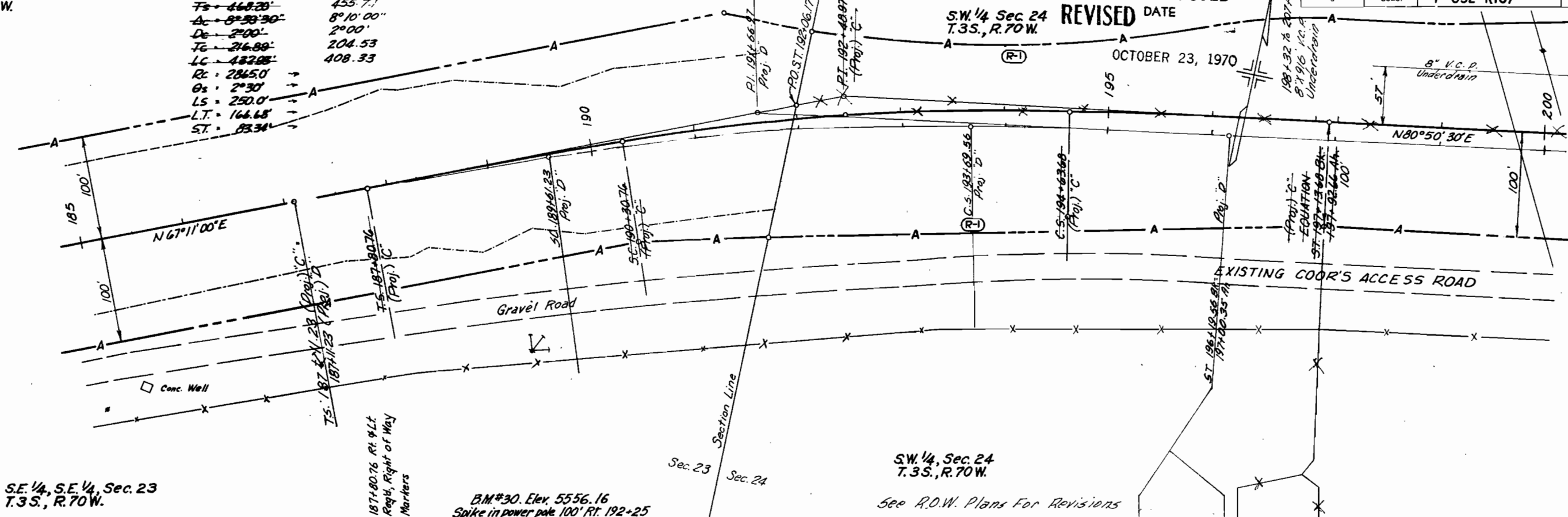
S.E. 1/4, S.E. 1/4, Sec. 23
T.3S., R.70W.

Proj. "C"
As = 13°30'30" RH
Ts = 448.20
Lc = 8°50'30"
De = 2°00'
Tc = 216.89
Lc = 432.08
Rc = 226.50
Gs = 2°30'
Ls = 250.0'
Lt = 166.68
St = 83.34

Proj. "D"
13°10'00" RH
455.71
8°10'00"
2°00'
204.53
408.33

AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970

FED. ROAD DIST. NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLO.	F 032-1(10)	18



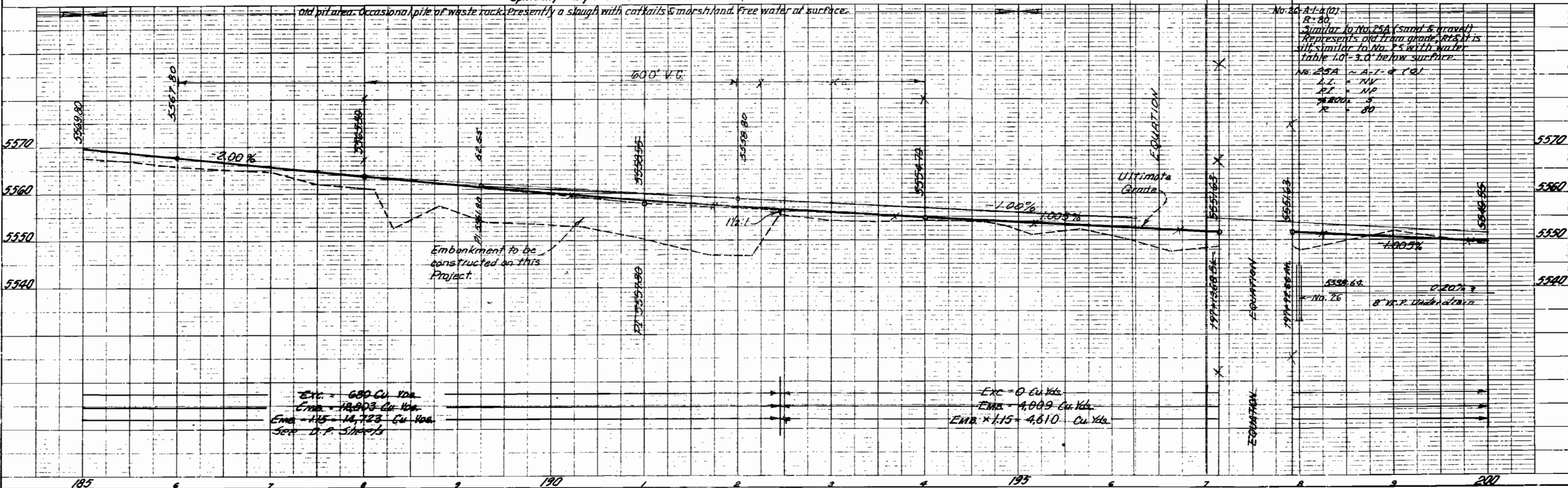
S.E. 1/4, S.E. 1/4, Sec. 23
T.3S., R.70W.

BM#30. Elev. 5556.16
Spike in power pole 100' RT. 192+25

S.W. 1/4, Sec. 24
T.3S., R.70W.

See R.O.W. Plans For Revisions

old pit area. Occasional pile of waste rock. Presently a slough with catfish & marshland. Free water at surface.



No. 25A - A-1 & (2)
R-80
Similar to No. 25A (sand & gravel)
Represents old train grade, R-80 is
silt similar to No. 25 with water
table 1.0' - 3.0' below surface.

No. 25A - A-1 & (2)
L.L. = NW
P.L. = NW
R-80 = NW
R-80 = NW

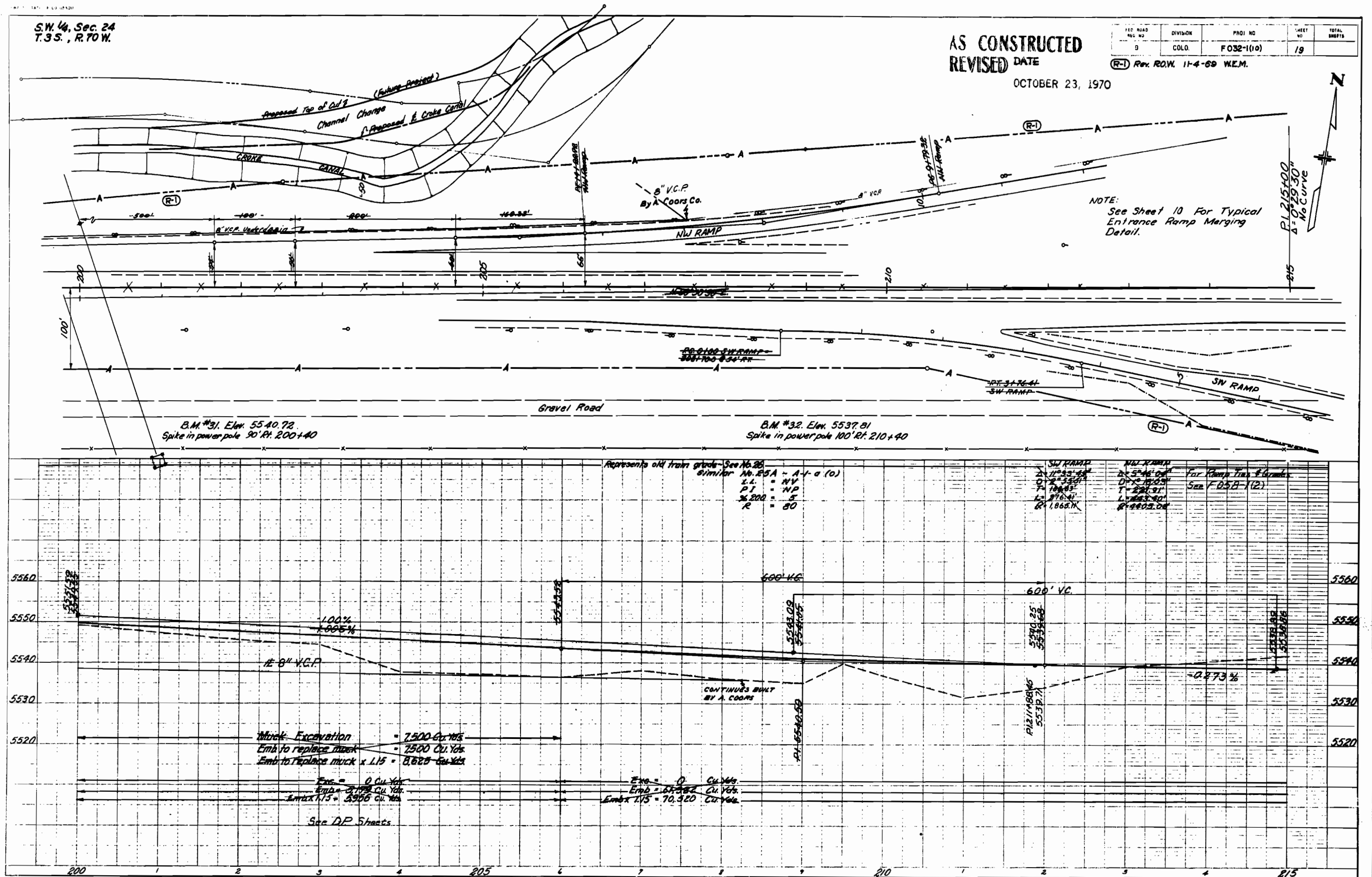
S.W. 1/4, Sec. 24
T.3 S., R.70 W.

AS CONSTRUCTED
REVISED DATE

OCTOBER 23, 1970

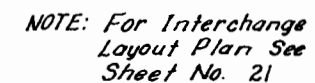
FED. ROAD DIST. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F032-1(10)	19	

(R-1) Rev. ROW. 11-4-69 W.E.M.



(R-1) Rev. R.O.W., Replot Toe of Slope
11-4-69 W.E.M.

REVISÉ DATE OCTOBER 23, 1970

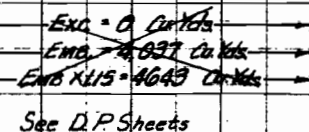


BM#34 Elev 5519.43
Steel pin 44' Rt. 228+00

$N_A = 26 \sim A - 1 - 0 (0)$
 similar $N_B = 25A \sim A - 1 - 0 (0)$
 $L_L = N_L$
 $R_L = N_R$
 $\% \text{RSD} = 5$
 $R = 80$

No. 27 ~ A-2-4 (0)
 LL = NV
 PI = NP
 %200 = 26
 R = 73

No. 32A ~ A-1-A (0)
 LL = NV
 PI = NP
 %200 = 4
 R = 76



McINTYRE INTERCHANGE STA. 219+

Revised See Project F05B-1(2)

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1(10)	21	

(R-1) Revised ROW. 11-4-69 W.E.M.

AS CONSTRUCTED
REVISED DATE

OCTOBER 23, 1970

S.W. 1/4, Sec. 24
T.3S., R.70W.

S.E. 1/4 Sec. 24
T.3S., R.70W.

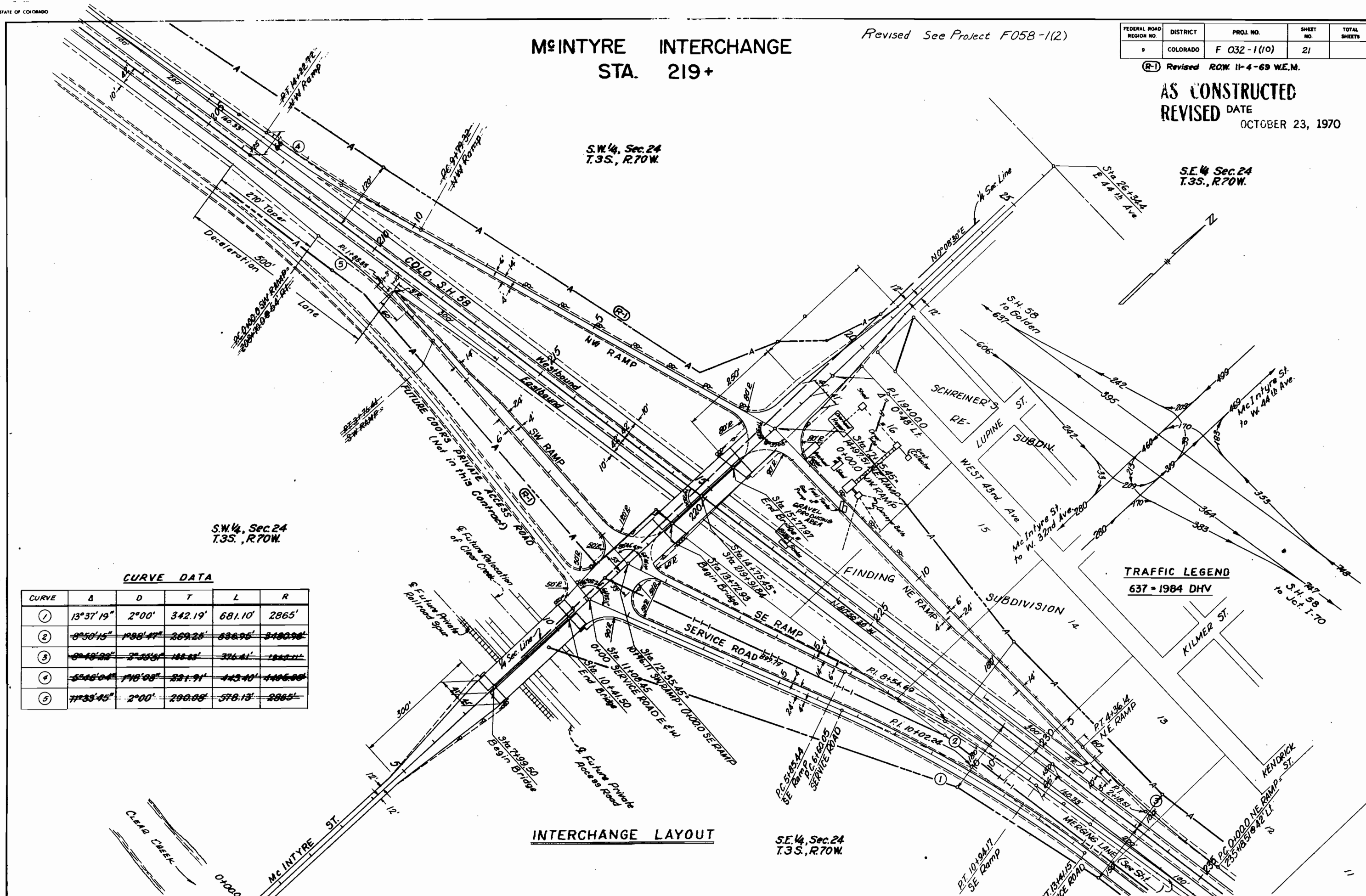
CURVE DATA

CURVE	Δ	D	T	L	R
①	13°37'19"	2°00'	342.19'	681.10'	2865'
②	8°50'15"	1°38'47"	369.25'	636.96'	3180.96'
③	8°48'28"	2°35'51"	188.83'	376.41'	1845.11'
④	5°46'04"	1°10'03"	221.91'	443.40'	4405.00'
⑤	71°33'45"	2°00'	290.08'	578.13'	2865'

INTERCHANGE LAYOUT

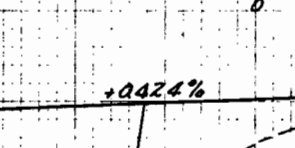
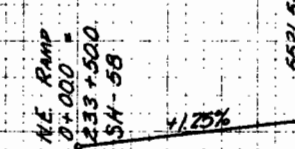
S.E. 1/4, Sec. 24
T.3S., R.70W.

TRAFFIC LEGEND
637 = 1984 DHV



FINAL SURVEY	INDEXED	REF	DATE
NOTE BOOK	FILED		
NO	INDEXED		

NO	AREAS CHECKED	BY	DATE
ORIGINAL SURVEY	SURVEYED		
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		



Curve Data For State Highway 58
Projected Line

①	②
$\Delta s = 44^{\circ}10' R$	$\Delta s = 16^{\circ}47'30" L$
$T_s = 925.69'$	$T_s = 432.06'$
$D_c = 35^{\circ}10'$	$D_c = 7^{\circ}47'30"$
$T_c = 3^{\circ}00'$	$T_c = 3^{\circ}00'$
$L_c = 605.28'$	$L_c = 130.07'$
$R_c = 1172.22'$	$R_c = 258.72'$
$R_c = 1910.0'$	$R_c = 1910.0'$
$H.S.D. >$	$H.S.D. >$
$S = 0.077$	$S = 0.077$
$M.D.S. = 70 M.P.H.$	$M.D.S. = 70 M.P.H.$
$\Theta_s = 4^{\circ}30'$	$\Theta_s = 4^{\circ}30'$
$L_s = 300'$	$L_s = 300'$
$LT = 200.06'$	$LT = 200.06'$
$ST = 100.06'$	$ST = 100.06'$

9+44 - 13+84
6"X460' Underdrain
(W.D. No. 2/1409)

SW 1/4 Sec. 23, T.3 S., R. 70 W.

CHURCH DITCH

EASLEY ROAD

STATE HIGHWAY NO. 58
PROJECTED LINE

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

CONCRETE BRIDGE
105+45+80.61

RELOCATION OF EXISTING WEST 44th AVE.

AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

W. 44th Ave. BASE LINE
N 66°22'22" E

Note: For Details of Easley Road Ramp
and Temporary Connection
See Sheet No. 24

Curve Data For W. 44th Ave. Relocation

①	②	③
$\Delta = 8^{\circ}00' R$	$6^{\circ}00' L$	$6^{\circ}00' R$
$D = 4^{\circ}00'$	$4^{\circ}00'$	$4^{\circ}00'$
$T = 100.2'$	$75.1'$	$75.1'$
$L = 200.0'$	$150.0'$	$150.0'$
$R = 1432.5'$	$1432.5'$	$1432.5'$
$S = 0.053$	0.053	0.053
$H.S.D. > 600'$	$> 600'$	$> 600'$
$M.D.S. = 45 M.P.H.$	$45 M.P.H.$	$45 M.P.H.$

13+82 L.T. Remove Culvert
24"X96" C. Headwall
Type "A" (W.D. 1415)
16+00 Road
24"X96" Culvert Base
W/End Section L.T.

NW 1/4 Sec. 26, T.3 S., R. 70 W.

B.M. #25 Elev 5635.02 High Point of Iron Rail on R.R.
R.R. W. PT. OF R.R. Curve 7 ft. R.O.T. Survey Line Sta. 149+00

BEGIN PROJECT F 032-1 (9)

W. 44th AVE. RELOCATION

STA. P.O.T. 9+70

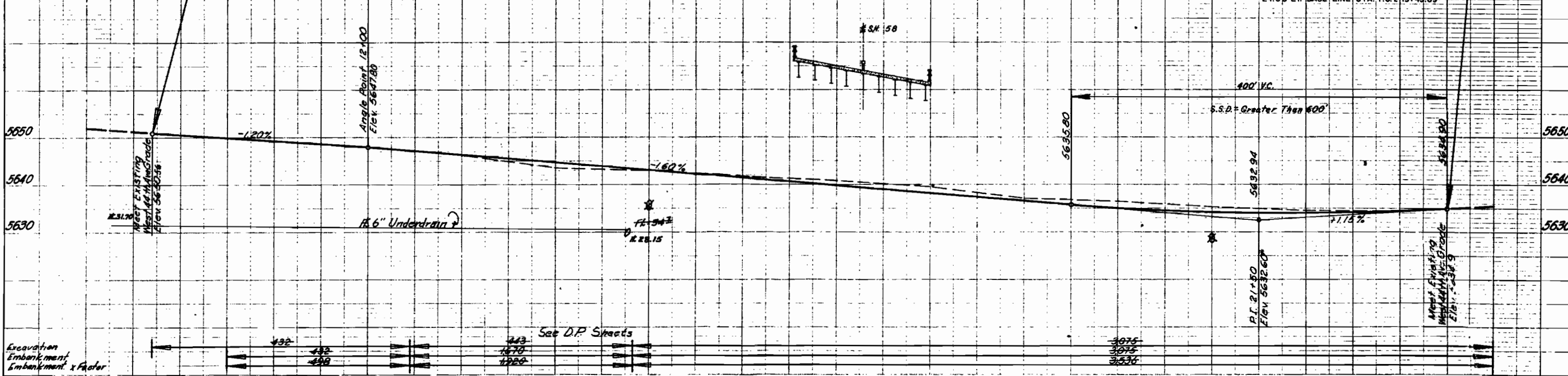
12.29' RT. BASE LINE STA. P.O.T. 5+71.64

END PROJECT F 032-1 (9)

W. 44th AVE. RELOCATION

STA. P.O.T. 23+50

24.08' LT. BASE LINE STA. P.O.T. 19+46.89



Excavation
Embankment
Embankment & Paving

D. P. H. W. 124
Aug 1970

PLAN
NO. 1
NO. 2

PROFILE
NO. 1
NO. 2

EXCAVATION
EMBANKMENT
EMBANKMENT X 115

K-E

S.W. 1/4, S.W. 1/4, Sec. 23
T. 3 S., R. 70 W.

141+ Lt.
Reqd.: C & G Type 2 (Sec. 8) 150'
Type 2 (Sec. 8) 150'
(Detail Sheet 10)

141+
Reqd.: Timber Barricade Rt.
(Class I - Type F1)
Deleted by
W.O. 11320

EASLEY RD RAMP
P.I. 8+73.33

A = 26°51' - R1 29°08'30"
D = 170257' 10.54"
T = 80.33'
L = 157.70' 157.18
R = 336.55' 309.63

Easley Rd. Ramp
Δ = 3°37' Rt.
D = 1°01'

T = 162.0'
L = 323.97'
R = 373.18'

EASLEY RD. CONN.
P.I. 5+00

A = 15° Lt.
D = 4.57934°
T = 164.73'
L = 327.55'
R = 1251.27'

For relocation of W. 44th Ave.
See Sheet 23.

Note: Typical Entrance Ramp Detail to be
used Sta. 131+ to 141+00 Lt.
(See Sheet No. 10)

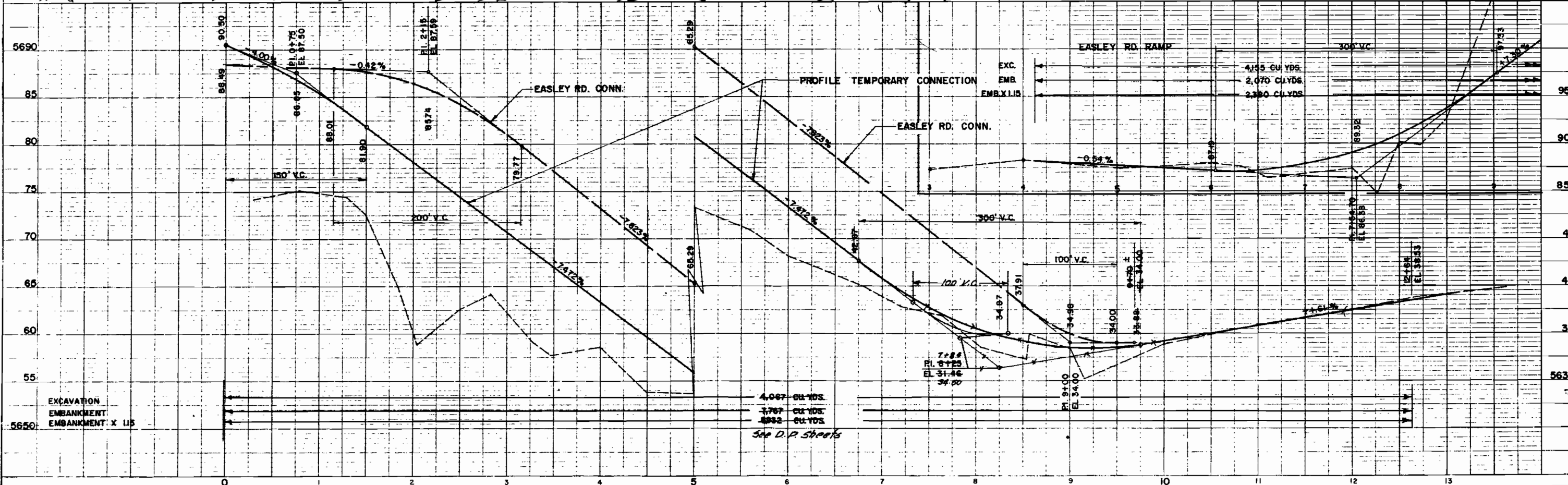
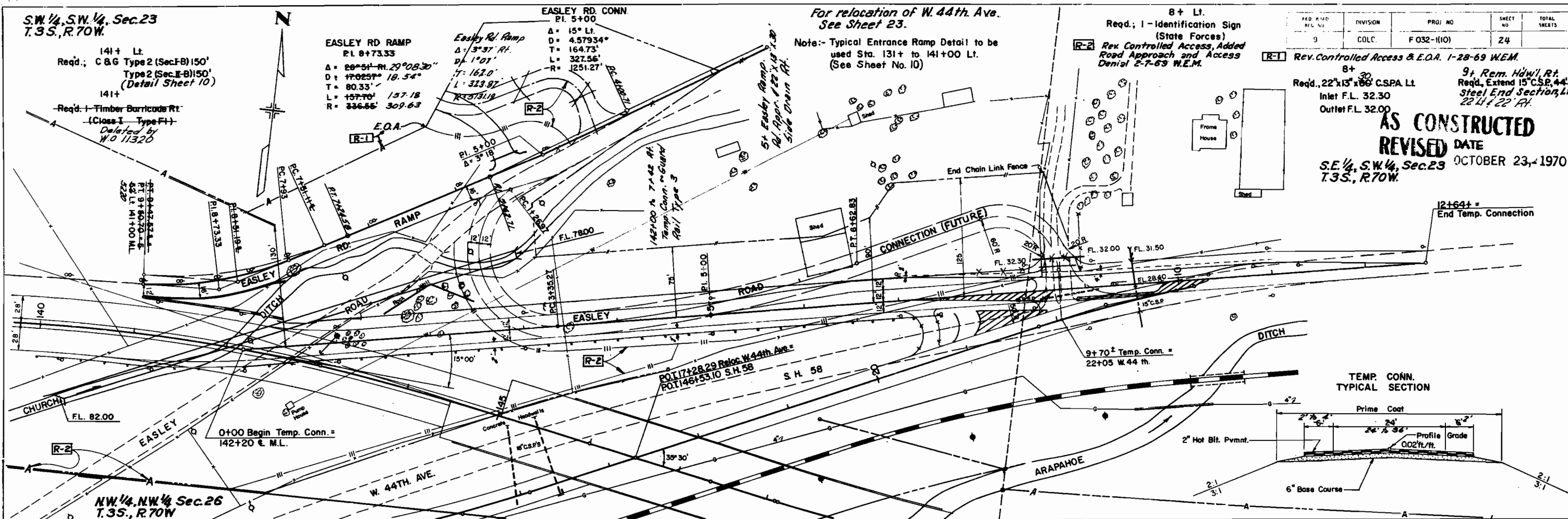
8+ Lt.
Reqd.: 1-Identification Sign
(State Forces)
R-2 Rev. Controlled Access, Added
Road Approach and Access
Denial 2-7-69 W.E.M.

R-1 Rev. Controlled Access & E.O.A. 1-28-69 W.E.M.

8+
Reqd.: 22"x13"x66" C.S.P.A. Lt.
Inlet F.L. 32.30
Outlet F.L. 32.00

9+ Rem. Hdwl. Rt.
Reqd. Extend 15" C.S.P. 44"
Steel End Section, Lt.
22"x13"x66" Rt.

AS CONSTRUCTED
REVISED DATE
S.E. 1/4, S.W. 1/4, Sec. 23 OCTOBER 23, 1970
T. 3 S., R. 70 W.



K-E

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLORADO	F 032-1(10)	25	

(R-1) 1-28-69 DELETE MEDIAN SIGNS J.L.S.

TABULATION OF SIGNING QUANTITIES

(R-1)
(R-1)

(R-1)

ITEM NO.	ITEM	UNIT	PROJECT TOTALS	As Constructed Totals
210	Res. Ground Sign	Ea.	26	16
614	Pvmt. Mkg. Point	Gal.	353	266
614	Sign Panel (Cl. I)	Sq. Ft.	260	203.93
614	Sign Panel (Cl. II)	Sq. Ft.	726	679.08
614	Sign Panel (Cl. III)	Sq. Ft.	704	892.25
614	Timber Sign Post (4 x 4)	Lin. Ft.	488	408.5
614	Timber Sign Post (6 x 6)	Lin. Ft.	1,237	1,175.5
614	Steel Sign Post (6 WF20)	Lin. Ft.	162	217.5
614	Conc. Footing (Ty. I-C)	Ea.	8	8
614	Conc. Footing (Ty. I)	Ea.	4	8
614	Modification of Timber Sign Post	Ea.	17	16
614	Flashing Yellow Beacon	Ea.	1	1
	<u>FORCE ACCOUNT</u> Furnish and install power lines for Flashing Yellow Beacon .	Lump Sum	•	•

AS CONSTRUCTED
REVISED DATE

OCTOBER 23, 1970

TABULATION OF SIGNS

AS CONSTRUCTED
REVISED DATE OCTOBER 23, 1970

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLORADO	F 032-1 (10)	26	

SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE	BACK-GROUND COLOR	REMOVE		RESET GROUND SIGN (EACH)	MODIFY		NO. OF POSTS	LENGTH OF POST	POST TYPE (LIN. FT.)								CONC. FOOTING TYPE (EACH)					SIGN PANEL (SQ. FT.)			SIGN ISLAND WIDTH "W"
					GROUND SIGN (EACH)	SIGN STRUCTURE (EACH)		TIMBER SIGN POST (EACH)	STEEL SIGN POST (EACH)			U-2	4x4 TIMBER	6x6 TIMBER	6WF20 BEAM	8WF20 BEAM	10WF25 BEAM	12WF31 BEAM	I-C	I					CLASS I	CLASS II	CLASS III	
1		65+00 U.S. 6					+																					
2		62+50 U.S. 6					+																					
3	SPECIAL	72+80 U.S. 6	6' x 4'	GREEN						2	16'			32												24.00		
4		60+50 U.S. 6																										
5A	SM6-1-9(W)	195+50 U.S. 6	21" x 9"	WHITE						1	13'		13										1.31					
5B	XMI-1-24(6)		SHIELD 24" x 24"	WHITE																			4.00					
6	XR6-5	19+00 S.H. 58	36"x48"	WHITE						1	17'			17											12.00			
7	IRI-2	21+50 S.H. 58	TRIANGLE 60" SIDES	YELLOW						1	17'			17											10.83			
8A	XR5-1	22+50 S.H. 58	36"x36"	WHITE						1	18'			18											9.00			
8B	XR5-1A		36"x24"	RED																					6.00			
9A	XR5-1	23+00 S.H. 58	36"x36"	WHITE						1	18'			18											9.00			
9B	XR5-1A		36"x24"	RED																					6.00			
10		188+50 U.S. 6					+		1																			
11	XR5-1A	24+00 S.H. 58	36"x24"	RED	MOUNT ON BACK OF EXISTING SIGN																			6.00				
12		24+00 S.H. 58					+		1																			
13	XR5-1A	24+50 S.H. 58	36"x24"	RED						1	13'		13												6.00			
14		26+00 S.H. 58					+																					
15A	SM6-1-9(E)		21" x 9"	WHITE																					1.31			
15B	SM6-1-9(E)		21" x 9"	WHITE																					1.31			
15C	SMI-2-24(6)	195+00 U.S. 6	24"x24"	WHITE						1	17'			17											4.00			
15D	XMI-3-24(58)		24"x24"	WHITE																					4.00			
15E	SM4-3		21"x15"	WHITE																					2.19			
15F	SM4-2(R)		21"x15"	WHITE																					2.19			
16		193+00 U.S. 6					+		1																			
17		11+75 S.H. 58					+																					
18	XR5-1A	OPP. 187+10 U.S. 6	36"x24"	RED						1	13'		13												6.00			
19	XR5-1A	OPP. 186+80 U.S. 6	36"x24"	RED						1	13'		13												6.00			
20A	SR5-1		24" x 24"	WHITE																			4.00					
20B	SR5-1A		24"x18"	RED																			3.00					
20C	SRI-1	187+00 U.S. 6	OCTAGON 30"x30"	RED						1	18'			18											6.25			
20D	SR6-1(R)		36"x12"	BLACK																			3.00					
20E	SR6-1(L)		36"x12"	BLACK																			3.00					
21A	SR5-1		24"x24"	WHITE																			4.00					
21B	SR5-1A		24" x 18"	RED																			3.00					
21C	SRI-1	186+60 U.S. 6	OCTAGON 30"x30"	RED						1	18'			18											6.25			
21D	SR6-1(R)		36"x12"	BLACK																			3.00					
21E	SR6-1(L)		36"x12"	BLACK																			3.00					
22		183+15 U.S. 6						1																				

NOTES :

- SEE PLANS FOR FABRICATION DETAILS OF REGULATORY SIGNS, WARNING SIGNS, ROUTE MARKERS, AND AUXILIARY MARKERS.
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- PANELS FOR CLASS II SIGNS SHALL BE EITHER SINGLE SHEET ALUMINUM OR SINGLE SHEET STEEL, SHALL HAVE BACKING ZEES, AND SHALL BE REFLECTORIZED AS INDICATED. SEE STANDARDS S-614-21B AND S-614-22B.
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- CLASS III SIGNS WITH A GREEN BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR SHEET ALUMINUM AND SHALL HAVE A REFLECTORIZED BACKGROUND. CLASS III SIGNS WITH A BLUE OR A BLACK BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR EXTRUDED ALUMINUM AND SHALL HAVE A PORCELAIN ENAMELED BACKGROUND.
- LEGEND AND BORDER ON ALL CLASS III SIGNS SHALL BE WHITE CUTOUT ALUMINUM WITH REFLEX REFLECTORS.
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- FOR DETAILS OF SIGN SUPPORTS FOR GROUND SIGNS SEE STANDARD S-614-26B.
- FOR DETAILS OF FOOTINGS, PEDESTALS, AND SIGN ISLANDS SEE STANDARD S-614-27B.

TABULATION OF SIGNS

AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLORADO	F 032-1 (10)	27	

SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE	BACK-GROUND COLOR	REMOVE		RESET GROUND SIGN (EACH)	MODIFY		NO. OF POSTS	LENGTH OF POST	POST TYPE (LIN. FT.)								CONC. FOOTING TYPE (EACH)					SIGN PANEL (SQ. FT.)			SIGN ISLAND WIDTH "W"		
					GROUND SIGN (EACH)	SIGN STRUCTURE (EACH)		TIMBER SIGN POST (EACH)	STEEL SIGN POST (EACH)			U-2	4x4 TIMBER	6x6 TIMBER	6WF20 BEAM	8WF20 BEAM	10WF25 BEAM	12WF31 BEAM			I-C	I					CLASS I		CLASS II	CLASS III
23	SW3-1	182+60 U.S. 6 RAMP	DIAMOND 30" SIDES	YELLOW						1	14'		14														6.25			
24		177+75 U.S. 6					+																							
25		176+75 U.S. 6					1			1-1	15'-0" 18'-0"		33																	
26		177+40 U.S. 6					1																							
27		161+00 U.S. 6					1					14																		
28	SPECIAL	155+00 U.S. 6	6'x 4'	GREEN						1-1	16'-0" 18'-0"		34															24.00		
29		148+00 U.S. 6					+	1																						
30		145+00 U.S. 6					1																							
31		140+25 U.S. 6					1	1																						
32		165+75 U.S. 6					1	1																						
33		159+00 U.S. 6					1	1																						
34		147+00 U.S. 6					+	1																						
35		141+70 U.S. 6					1	1																						
36		28+00 S.H. 58					1	1																						
37		29+00 S.H. 58					1	1																						
38		30+00 S.H. 58					1	1																						
39	IR2-1(40)	33+00 S.H. 58	4'x5'	WHITE						1	18'		18														20.00			
40	IR2-1(40)	34+00 S.H. 58	4'x5'	WHITE						1	18'		18														20.00			
41		184+65 U.S. 6 RAMP					1																							
42		185+00 U.S. 6 RAMP					1					12.5																		
43		30+25 S.H. 58					1	2					12																	
44A	SR5-1		24"x24"	WHITE																						4.00				
44B	SR5-1A		24"x18"	RED																						3.00				
44C	SR6-5	OPP. 30+70 S.H. 58	24"x30"	WHITE						1	18'		18													5.00				
44D	SR6-1(R)		36"x12"	BLACK																						3.00				
44E	SR6-1(L)		36"x12"	BLACK																						3.00				
45A	SR5-1		24"x24"	WHITE																						4.00				
45B	SR5-1A	OPP. 30+95 S.H. 58	24"x18"	RED						1	18'		18													3.00				
45C	SR6-1(R)		36"x12"	BLACK																						3.00				
46	IR2-1(50)	32+00 S.H. 58	4'x5'	WHITE						1	18'		18														20.00			
47	IR2-1(50)	33+00 S.H. 58	4'x5'	WHITE						1	18'		18														20.00			
48	SPECIAL	42+50 S.H. 58	13'x6'	GREEN						1-1	14'-0" 17'-0"			31							2							78.00		
49A	SM6-1-9(W)	48+00 S.H. 58	21'x9"	WHITE						1	13'		13													1.31				
49B	XMI-3-24(58)		24"x24"	WHITE																						4.00				
50	SPECIAL	45+50 S.H. 58	5'x 2'-6"	GREEN						1	17'		17															12.50		
51	SPECIAL	52+00 S.H. 58	13'x6'	GREEN						1-1	13'-0" 15'-0"			28							2							78.00		
52	DELETED	31+50 S.H. 58																												
53	DELETED																													

NOTES :

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TABULATION OF SIGNS

AS CONSTRUCTED
REVISED DATE

OCTOBER 23, 1970

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032 - I(10)	28	

SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE	BACK- GROUND COLOR	REMOVE		RESET GROUND SIGN (EACH)	MODIFY		NO. OF POSTS	LENGTH OF POST	POST TYPE (LIN. FT.)								CONC. FOOTING TYPE (EACH)					SIGN PANEL (SQ. FT.)			SIGN ISLAND WIDTH "W"
					GROUND SIGN (EACH)	SIGN STRUCTURE (EACH)		TIMBER SIGN POST (EACH)	STEEL SIGN POST (EACH)			4x4 TIMBER	6x6 TIMBER	6WF20 BEAM	8WF20 BEAM	10WF25 BEAM	12WF31 BEAM	I-C	I						CLASS I	CLASS II	CLASS III	
54	DELETED																											
55	IW4-I	61+50 S.H. 58	DIAMOND 48" SIDES	YELLOW						1	17'				17											16.00		
56A	SM6-I-9(W)		21"x9"	WHITE																						1.31		
56B	SMI-5		18"x12"	WHITE																						1.50		
56C	XMI-3-24(58)	4+05 WASHINGTON	24"x24"	WHITE						1	17'				17											4.00		
56D	SMI-2-24(6)		24"x24"	WHITE																						4.00		
56E	SM4-I		21"x15"	WHITE																						2.19		
56F	SM4-I		21"x15"	WHITE																						2.19		
57A	SM6-I-9(E)		21"x9"	WHITE																						1.31		
57B	SM6-I-9(W)		21"x9"	WHITE																						1.31		
57C	SMI-5		18"x12"	WHITE																						1.50		
57D	XMI-3-24(58)		24"x24"	WHITE																						4.00		
57E	XMI-3-24(58)	4+05 WASHINGTON	24"x24"	WHITE						1	17'				17											4.00		
57F	SMI-2-24(6)		24"x24"	WHITE																						4.00		
57G	SM3-I(L)		21"x15"	WHITE																						2.19		
57H	SM4-I		21"x15"	WHITE																						2.19		
57I	SM4-I		21"x15"	WHITE																						2.19		
58A	SM2-I	0+50 WASHINGTON	21"x15"	WHITE						1	14'		14													2.19		
58B	XMI-3-24(58)		24"x24"	WHITE																						4.00		
59A	SR5-I		24"x24"	WHITE																						4.00		
59B	SR5-IA		24"x18"	RED																						3.00		
59C	SR1-I	306+40 N.W. RAMP	OCTAGON 30"x30"	RED						1	18'				18											6.25		
59D	SR6-I(R)		36"x12"	BLACK																						3.00		
59E	SR6-I(L)		36"x12"	BLACK																						3.00		
60A	SR5-I		24"x24"	WHITE																						4.00		
60B	SR5-IA		24"x18"	RED																						3.00		
60C	SR1-I	306+40 N.W. RAMP	OCTAGON 30"x30"	RED						1	18'				18											6.25		
60D	SR6-I(R)		36"x12"	BLACK																						3.00		
60E	SR6-I(L)		36"x12"	BLACK																						3.00		
61	XR5-IA	304+50 N.W. RAMP	36"x24"	RED						1	13'		13													6.00		
62	XR5-IA	304+50 N.W. RAMP	36"x24"	RED						1	13'		13													6.00		
63	SPECIAL	67+75 S.H. 58	6'x5'	GREEN						2	18'				36												30.00	
64	IW3-I	302+70 N.W. RAMP	DIAMOND 48" SIDES	YELLOW						1	17'				17											16.00		
65		104+10 S.E. RAMP						1																				
66		60+50 S.H. 58						2																				
67	XR5-IA	105+80 S.E. RAMP	36"x24"	RED						1	13'		13		16.5											6.00		
68	XR5-IA	105+80 S.E. RAMP	36"x24"	RED						1	13'		13													6.00		

NOTES:

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TABULATION OF SIGNS

AS CONSTRUCTED
REVISED DATE OCTOBER 23, 1970

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1 (10)	29	

SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE	BACK-GROUND COLOR	REMOVE		RESET GROUND SIGN (EACH)	MODIFY		NO. OF POSTS	LENGTH OF POST	POST TYPE (LIN. FT.)								CONC. FOOTING TYPE (EACH)					SIGN PANEL (SQ. FT.)			SIGN ISLAND WIDTH "W"		
					GROUND SIGN (EACH)	SIGN STRUCTURE (EACH)		TIMBER SIGN POST (EACH)	STEEL SIGN POST (EACH)			4x4 TIMBER	6x6 TIMBER	6WF20 BEAM	8WF20 BEAM	10WF25 BEAM	12WF31 BEAM	I-C	I	II	III	IV	CLASS I	CLASS II	CLASS III					
69A	SM6-1-9(E)	5+85 WASHINGTON	21"x 9"	WHITE																				1.31						
69B	XMI-3-24(58)		24"x24"	WHITE						1	17'				17										4.00					
69C	SM4-1		21"x15"	WHITE																					2.19					
70A	SR5-1		24"x24"	WHITE																				4.00						
70B	SR5-1A		24"x18"	RED																				3.00						
70C	SR1-1		107+55 S.E. RAMP	OCTAGON 30"x30"	RED					1	18'				18											6.25				
70D	SR6-1(R)		36"x12"	BLACK																				3.00						
70E	SR6-1(L)		36"x12"	BLACK																				3.00						
71A	SR5-1		24"x24"	WHITE																				4.00						
71B	SR5-1A	107+60 S.E. RAMP	24"x18"	RED																				3.00						
71C	SR1-1		OCTAGON 30"x30"	RED					1	18'					18											6.25				
71D	SR6-1(R)		36"x12"	BLACK																				3.00						
71E	SR6-1(L)	9+50 WASHINGTON	36"x12"	BLACK																				3.00						
72A	SM2-1		21"x15"	WHITE					1	14'				14										2.19						
72B	XMI-3-24(58)		24"x24"	WHITE																				4.00						
73A	SM6-1-9(W)		21"x 9"	WHITE																					1.31					
73B	SM1-5		18"x12"	WHITE																					1.50					
73C	SM6-1-9(E)		21"x 9"	WHITE																					1.31					
73D	XMI-3-24(58)	5+90 WASHINGTON	24"x24"	WHITE																					4.00					
73E	SM1-2-24(6)		24"x24"	WHITE					1	17'					17										4.00					
73F	XMI-3-24(58)		24"x24"	WHITE																					4.00					
73G	SM3-1(L)		21"x15"	WHITE																					2.19					
73H	SM3-1(L)		21"x15"	WHITE																					2.19					
73I	SM4-1		21"x15"	WHITE																					2.19					
74	SR6-1(R)	7 TH. ST.	36"x12"	BLACK						1	12'			12										3.00						
75	SR6-1(R)	7 TH. ST.	36"x12"	BLACK						1	12'			12										3.00						
76	IW4-1	66+50 S.H. 58	DIAMOND 48" SIDES	YELLOW						1	17'				17										16.00					
77	SR6-1(R)	7 TH. ST.	36"x12"	BLACK						1	12'			12										3.00						
78	SR6-1(R)	7 TH. ST.	36"x12"	BLACK						1	12'			12										3.00						
79	SR6-1(R)	7 TH. ST.	36"x12"	BLACK						1	12'			12										3.00						
80	SR6-1(R)	7 TH. ST.	36"x12"	BLACK						1	12'			12										3.00						
81	DELETED																													
82	DELETED																													
83	DELETED																													
84A	SR5-1		24"x24"	WHITE																				4.00						
84B	SR5-1A	BOYD ST.	24"x18"	RED						+	18'				18'									3.00						
84C	SR6-1(R)		36"x12"	BLACK																				3.00						
85	SW12-2	BOYD ST.	DIAMOND 30" SIDES	YELLOW						+	14'				14'											6.25				

NOTES:

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- CLASS III SIGNS WITH A GREEN BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR SHEET ALUMINUM AND SHALL HAVE A REFLECTORIZED BACKGROUND. CLASS III SIGNS WITH A BLUE OR A BLACK BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR EXTRUDED ALUMINUM AND SHALL HAVE A PORCELAIN ENAMELED BACKGROUND.
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TABULATION OF SIGNS

AS CONSTRUCTED
REVISED DATE OCTOBER 23, 1970

FEDERAL ROAD DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9 COLORADO	F 032-1 (10)	30	

SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE	BACK-GROUND COLOR	REMOVE		RESET GROUND SIGN (EACH)	MODIFY		NO. OF POSTS	LENGTH OF POST	POST TYPE (LIN. FT.)								CONC. FOOTING TYPE (EACH)					SIGN PANEL (SQ. FT.)			SIGN ISLAND WIDTH "W"
					GROUND SIGN (EACH)	SIGN STRUCTURE (EACH)		TIMBER SIGN POST (EACH)	STEEL SIGN POST (EACH)			4x4 TIMBER	6x6 TIMBER	6WF20 BEAM	8WF20 BEAM	10WF25 BEAM	12WF31 BEAM	I-C	I	II	III	CLASS I	CLASS II	CLASS III				
86A	SR5-1		24"x24"	WHITE																				4.00				
86B	SR5-1A	BOYD ST.	24"x18"	RED						1	18'			18										3.00				
86C	SR6-1(L)		36"x12"	BLACK																				3.00				
87	SPECIAL	BOYD ST.	2'x 2'-6"	GREEN						1	14'	14														5.00		
88	SWI-6	BOYD ST.	48"x24"	YELLOW						1	15'			15											8.00			
89	SWI-1(R)	FRONTAGE RD.	DIAMOND 30" SIDES	YELLOW						1	14'	14												6.25				
90	SRI-1	SUNSHINE PKWY.	OCTAGON 30"x30"	RED						1	14'	14												6.25				
91	SR6-1(R)	SUNSHINE PKWY.	36"x12"	BLACK						1	12'	12												3.00				
92A	SR5-1		24"x24"	WHITE																				4.00				
92B	SR5-1A	SUNSHINE PKWY.	24"x18"	RED						1	18'			18										3.00				
92C	SR6-1(R)		36"x12"	BLACK																				3.00				
93A	SR5-1		24"x24"	WHITE																				4.00				
93B	SR5-1A	SUNSHINE PKWY.	24"x18"	RED						1	18'			18										3.00				
93C	SPECIAL		3'-6"x2'-6"	GREEN																						8.75		
93D	SR6-1(R)		36"x12"	BLACK																				3.00				
94A	SR5-1		24"x24"	WHITE																				4.00				
94B	SR5-1A		24"x18"	RED																				3.00				
94C	SRI-1	7 TH. ST.	OCTAGON 30"x30"	RED						1	18'			18											6.25			
94D	SR6-1(R)		36"x12"	BLACK																				3.00				
94E	SR6-1(L)		36"x12"	BLACK																				3.00				
95A	SR5-1		24"x24"	WHITE																				4.00				
95B	SR5-1A		24"x18"	RED																				3.00				
95C	SRI-1	7 TH. ST.	OCTAGON 30"x30"	RED						1	18'			18											6.25			
95D	SR6-1(R)		36"x12"	BLACK																				3.00				
95E	SR6-1(L)		36"x12"	BLACK																				3.00				
96	SPECIAL	76+00 S.H. 58	13'x6'	GREEN						1-1	13'-0" 13'-6"			26.5				2								78.00		
97A	SM6-1-9(W)		21"x9"	WHITE																				1.31				
97B	XMI-3-24(58)	OPP. 82+00 FRONTAGE RD.	24"x24"	WHITE						1	17'			17										4.00				
97C	SM4-2(L)		21"x15"	WHITE																				2.19				
98	IW4-1	82+50 S.H. 58	DIAMOND 48" SIDES	YELLOW						1	17'			17											16.00			
99	SWI-1(R)	LILY LANE	DIAMOND 30" SIDES	YELLOW						1	14'	14													6.25			
100	SRI-1	LILY LANE	OCTAGON 30"x30"	RED						1	14'	14													6.25			
101	SR6-1(R)	LILY LANE	36"x12"	BLACK						1	12'	12												3.00				
102A	SR5-1		24"x24"	WHITE																				4.00				
102B	SR5-1A	LILY LANE	24"x18"	RED						1	18'			18										3.00				
102C	SPECIAL		2'x 2'-6"	GREEN																						5.00		
102D	SR6-1(R)		36"x12"	BLACK																				3.00				
103	XR5-1A	837+ OPP. 87+00 RAMP	36"x24"	RED						1	13'	13													6.00			

NOTES :

- SEE PLANS FOR FABRICATION DETAILS OF REGULATORY SIGNS, WARNING SIGNS, ROUTE MARKERS, AND AUXILIARY MARKERS.
- PANELS FOR CLASS I SIGNS SHALL BE EITHER SINGLE SHEET ALUMINUM OR SINGLE SHEET STEEL AND SHALL BE REFLECTORIZED AS INDICATED. SEE STANDARD S-614-20B.
- PANELS FOR CLASS II SIGNS SHALL BE EITHER SINGLE SHEET ALUMINUM OR SINGLE SHEET STEEL, SHALL HAVE BACKING ZEES, AND SHALL BE REFLECTORIZED AS INDICATED. SEE STANDARDS S-614-21B AND S-614-22B.
- PANELS FOR CLASS III SIGNS SHALL BE EITHER LAMINATED ALUMINUM, EXTRUDED ALUMINUM, OR SHEET ALUMINUM. SEE STANDARDS S-614-23B, S-614-24B, AND S-614-25B.
- CLASS III SIGNS WITH A GREEN BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR SHEET ALUMINUM AND SHALL HAVE A REFLECTORIZED BACKGROUND. CLASS III SIGNS WITH A BLUE OR A BLACK BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR EXTRUDED ALUMINUM AND SHALL HAVE A PORCELAIN ENAMELED BACKGROUND.
- LEGEND AND BORDER ON ALL CLASS III SIGNS SHALL BE WHITE CUTOUT ALUMINUM WITH REFLEX REFLECTORS.
- FOR TYPICAL GROUND SIGN PLACEMENT SEE STANDARD S-614-19A.
- FOR DETAILS OF SIGN SUPPORTS FOR GROUND SIGNS SEE STANDARD S-614-26B.
- FOR DETAILS OF FOOTINGS, PEDESTALS, AND SIGN ISLANDS SEE STANDARD S-614-27B.

TABULATION OF SIGNS

AS CONSTRUCTED
REVISED DATE OCTOBER 23, 1970

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1(10)	31	

(R-1) 1-28-69 DELETE MEDIAN SIGNS J.L.S.

SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE	BACK-GROUND COLOR	REMOVE		RESET GROUND SIGN (EACH)	MODIFY		NO. OF POSTS	LENGTH OF POST	POST TYPE (LIN. FT.)								CONC. FOOTING TYPE (EACH)					SIGN PANEL (SQ. FT.)			SIGN ISLAND WIDTH "W"
					GROUND SIGN (EACH)	SIGN STRUCTURE (EACH)		TIMBER SIGN POST (EACH)	STEEL SIGN POST (EACH)			4x4 TIMBER	6x6 TIMBER	6WF20 BEAM	8WF20 BEAM	10WF25 BEAM	12WF31 BEAM	I-C	I					CLASS I	CLASS II	CLASS III		
104	XR5-1A	OPP. 87+00 RAMP	36"x24"	RED						1	13'		13												6.00			
105	SPECIAL	188+00 S.H. 58	6'x5'	GREEN						2	18'			36												30.00		
106	IW13-1(25)	88+65 S.H. 58	4'x5'	YELLOW						1	18'			18											20.00			
107	SPECIAL	94+00 S.H. 58	9'x5'	GREEN						1-1	13'-6" 12'-0"				25.5				2							45.00		
108A	SM6-1-9(E)	81+00 S.H. 58	21"x9"	WHITE						1	13'		13									1.31						
108B	XMI-3-24(58)		24"x24"	WHITE																		4.00						
109	SPECIAL	99+50 S.H. 58	5'x2'-6"	GREEN						1	15'			15												12.50		
110	IR2-1(50)	101+00 S.H. 58	4'x5'	WHITE						1	18'			18										20.00				
(R-1) 111A 111B	DELETED																											
112	IR2-1(60)	99+50 S.H. 58	4'x5'	WHITE						1	18'			18											20.00			
113	DELETED																											
114	SPECIAL	128+00 122+00 S.H. 58	13'x6'	GREEN						1-1	10'-6" 16'-0"				26.5			2								78.00		
115	SPECIAL	138+00 S.H. 58	11'x5'	GREEN						1-1	9'-6" 14'-6"				24			2								55.00		
(R-1) 116	DELETED																											
117	IR2-1(60)	140+00 S.H. 58	4'x5'	WHITE						1	18'			18										20.00				
118	XW6-2	127+50 S.H. 58	DIAMOND 48" SIDES	YELLOW						1	17'			17										16.00				
(R-1) 119	DELETED																											
120	IR2-1(45)	131+00 S.H. 58	4'x5'	WHITE						1	18'			18										20.00				
(R-1) 121	DELETED	132+50 S.H. 58	4'x5'	WHITE																								
122	SPECIAL	134+50 S.H. 58	8'x4'	BLACK						2	17'			34												32.00		
(R-1) 123	DELETED																											
124	XR4-8	141+50 S.H. 58	36"x48"	WHITE						1	17'			17										12.00				
125	IW4-1	141+85 S.H. 58	DIAMOND 48" SIDES	YELLOW						1	17'			17										16.00				
126	XW6-1	1+50 TEMP. CONN.	DIAMOND 48" SIDE	YELLOW						INSTALL ON FLASHING YELLOW BEACON																		
127A	SM6-1-9(E)		21"x9"	WHITE																				1.31				
127B	SM6-1-9(W)		21"x9"	WHITE																				1.31				
127C	XMI-3-24(58)	5+95 EASLEY RD.	24"x24"	WHITE						1	17'			17										4.00				
127D	XMI-3-24(58)		24"x24"	WHITE																				4.00				
127E	SM4-1		21"x15"	WHITE																				2.19				
127F	SM4-3		21"x15"	WHITE																				2.19				
128	SR1-1	2+60 EASLEY LOOP	OCTAGON 30"x30"	RED						1	14'		14											6.25				
129	SPECIAL	3+30 TEMP. CONN.	7'x6'	GREEN						2	18'			36											42.00			
130	SR3-7(R)	4+25 TEMP. CONN.	30"x30"	WHITE						1	15'			15											6.25			
131	XR2-1(45)	5+50 TEMP. CONN.	36"x48"	WHITE						1	17'			17										12.00				
132	XR2-1(45)	19+00 W. 44TH. AVE	36"x48"	WHITE						1	17'			17										12.00				
133	SPECIAL	7+00 TEMP. CONN.	7'x2'-6"	GREEN						2	16'			32												17.50		
134A	SM6-1-9(W)	7+00 TEMP. CONN.	21"x9"	WHITE						1	13'		13										1.31					
134B	XMI-3-24(58)		24"x24"	WHITE																			4.00					

NOTES:

- SEE PLANS FOR FABRICATION DETAILS OF REGULATORY SIGNS, WARNING SIGNS, ROUTE MARKERS, AND AUXILIARY MARKERS.
- PANELS FOR CLASS I SIGNS SHALL BE EITHER SINGLE SHEET ALUMINUM OR SINGLE SHEET STEEL AND SHALL BE REFLECTORIZED AS INDICATED. SEE STANDARD S-614-208.
- PANELS FOR CLASS II SIGNS SHALL BE EITHER SINGLE SHEET ALUMINUM OR SINGLE SHEET STEEL, SHALL HAVE BACKING ZEES, AND SHALL BE REFLECTORIZED AS INDICATED. SEE STANDARDS S-614-218 AND S-614-22B.

- PANELS FOR CLASS III SIGNS SHALL BE EITHER LAMINATED ALUMINUM, EXTRUDED ALUMINUM, OR SHEET ALUMINUM. SEE STANDARDS S-614-238, S-614-248, AND S-614-258.
- CLASS III SIGNS WITH A GREEN BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR SHEET ALUMINUM AND SHALL HAVE A REFLECTORIZED BACKGROUND. CLASS III SIGNS WITH A BLUE OR A BLACK BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR EXTRUDED ALUMINUM AND SHALL HAVE A PORCELAIN ENAMELED BACKGROUND.

- LEGEND AND BORDER ON ALL CLASS III SIGNS SHALL BE WHITE CUTOUT ALUMINUM WITH REFLEX REFLECTORS.
- FOR TYPICAL GROUND SIGN PLACEMENT SEE STANDARD S-614-19A.
- FOR DETAILS OF SIGN SUPPORTS FOR GROUND SIGNS SEE STANDARD S-614-268.
- FOR DETAILS OF FOOTINGS, PEDESTALS, AND SIGN ISLANDS SEE STANDARD S-614-278.

TABULATION OF SIGNS

AS CONSTRUCTED
REVISED DATE

OCTOBER 23, 1970

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLORADO	F 032-1(10)	32	

(R-1) 1-28-69 DELETE MEDIAN SIGNS J.L.S.

SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE	BACK- GROUND COLOR	REMOVE		RESET GROUND SIGN (EACH)	MODIFY		NO. OF POSTS	LENGTH OF POST	POST TYPE (LIN. FT.)								CONC. FOOTING TYPE (EACH)				SIGN PANEL (SQ. FT.)			SIGN ISLAND WIDTH "W"
					GROUND SIGN (EACH)	SIGN STRUCTURE (EACH)		TIMBER SIGN POST (EACH)	STEEL SIGN POST (EACH)			4x4 TIMBER	6x6 TIMBER	6WF20 BEAM	8WF20 BEAM	10WF25 BEAM	12WF31 BEAM	I-C	I					CLASS I	CLASS II	CLASS III	
135	SW 4-1	7+80 TEMP. CONN.	DIAMOND 30" SIDES	YELLOW						1	14'	14												6.25			
136	SPECIAL	10+00 TEMP. CONN.	8' x 6'	GREEN						2	19'		38												48.00		
137	DELETED																										
138	DELETED																										
139	DELETED																										
140	IR 6-5	2+00 TEMP. CONN.	4' x 5'	WHITE						1	18'		18											20.00			
141A	XW 2-3(L)	3+50 TEMP. CONN.	DIAMOND 36" SIDES	YELLOW						1	18'		18											9.00			
141B	XW 13-1(35)		24" x 24"	YELLOW																				4.00			
142	XR 2-1(35)	16+50 W. 44TH. AVE.	36" x 48"	WHITE						1	17'		17											12.00			
143	SW 3-2	18+00 W. 44TH. AVE.	DIAMOND 30" SIDES	YELLOW						1	14'	14												6.25			
144	SRI-1	20+40 W. 44TH. AVE.	OCTAGON 30" x 30"	RED						1	14'	14												6.25			
145	SRI-1	22+25 W. 44TH. AVE.	OCTAGON 30" x 30"	RED						1	14'	14												6.25			
146	XR 1-2	23+10 W. 44TH. AVE.	TRIANGLE 48" SIDES	YELLOW						1	14'	14												6.93			
147A	SM 6-1-9(E)	12+00 TEMP. CONN.	21" x 9"	WHITE						1	13'	13											1.31				
147B	XMI-3-24(58)		24" x 24"	WHITE																			4.00				
148	XR 2-1(45)	14+50 TEMP. CONN.	36" x 48"	WHITE						1	17'		17											12.00			
149A	XW 2-3(L)	16+00 TEMP. CONN.	DIAMOND 36" SIDES	YELLOW						1	18'		18											9.00			
149B	XW 13-1(35)		24" x 24"	YELLOW																				4.00			
A	Special	47+50 ~ 54+58	15' x 6'	Green										35					2						90		
B	Special	105+80 ~ 5E Ramp	7' x 4'	Green									18												28		
C	Special	304+50 ~ NW Ramp	7' x 4'	Green									17												28		
D	Special	85+00 ~ 54+58	15' x 6'	Green										21					2						90		
(R-1)	PROJECT TOTALS							26	17			408	1,237	101.5				8	4				259.03	725.33	703.25		
	As Constructed Totals							16	16			408.5	1,175.5	217.5				8	8				203.93	679.08	892.25		

NOTES:

- SEE PLANS FOR FABRICATION DETAILS OF REGULATORY SIGNS, WARNING SIGNS, ROUTE MARKERS, AND AUXILIARY MARKERS.
- PANELS FOR CLASS I SIGNS SHALL BE EITHER SINGLE SHEET ALUMINUM OR SINGLE SHEET STEEL AND SHALL BE REFLECTORIZED AS INDICATED. SEE STANDARD S-614-20B.
- PANELS FOR CLASS II SIGNS SHALL BE EITHER SINGLE SHEET ALUMINUM OR SINGLE SHEET STEEL, SHALL HAVE BACKING ZEES, AND SHALL BE REFLECTORIZED AS INDICATED. SEE STANDARDS S-614-21B AND S-614-22B.

- PANELS FOR CLASS III SIGNS SHALL BE EITHER LAMINATED ALUMINUM, EXTRUDED ALUMINUM, OR SHEET ALUMINUM. SEE STANDARDS S-614-23B, S-614-24B, AND S-614-25B.
- CLASS III SIGNS WITH A GREEN BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR SHEET ALUMINUM AND SHALL HAVE A REFLECTORIZED BACKGROUND. CLASS III SIGNS WITH A BLUE OR A BLACK BACKGROUND SHALL BE FABRICATED FROM EITHER LAMINATED ALUMINUM OR EXTRUDED ALUMINUM AND SHALL HAVE A PORCELAIN ENAMELED BACKGROUND.

- LEGEND AND BORDER ON ALL CLASS III SIGNS SHALL BE WHITE CUTOUT ALUMINUM WITH REFLEX REFLECTORS.
- FOR TYPICAL GROUND SIGN PLACEMENT SEE STANDARD S-614-19A.
- FOR DETAILS OF SIGN SUPPORTS FOR GROUND SIGNS SEE STANDARD S-614-26B.
- FOR DETAILS OF FOOTINGS, PEDESTALS, AND SIGN ISLANDS SEE STANDARD S-614-27B.

TABULATION OF PAVEMENT MARKINGS

AS CONSTRUCTED
REVISED DATE OCTOBER 23, 1970

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032 - I (10)	33	

STATION	LOCATION	PAVEMENT MARKING LINES (Linear Feet)							
		LANE WHITE BROKEN 5 INCH	EDGE WHITE SOLID 3 INCH	BARRIER YELLOW SOLID 5 INCH	CHANNELIZING WHITE SOLID 5 INCH	WHITE SOLID 10 INCH	STOP WHITE SOLID 24 INCH	CROSS- HATCH WHITE SOLID 12 INCH	PARKING WHITE SOLID 5 INCH
55+00 To 84+90	Mainline E.B. & W.B. (4-lane)	5,980	11,960						
84+90 To 105+45.8 Bk.	Mainline E.B. & W.B. (4-lane)	4,112	8,224	8,224					
105+37.2 Ah. To 134+30	Mainline E.B. & W.B. (4-lane)	5,786	11,572	11,572					
58+80 To 60+50	Decel. Lane E.B.					340		-80	
68+15 To 70+60	Accel. Lane E.B.		245			245		-80	
70+60 To 73+00	Accel. Lane E.B.	240							
56+00 To 56+60	Accel. Lane W.B.	60							
56+60 To 60+00	Accel. Lane W.B.		340			340		-80	
67+75 To 69+35	Decel. Lane W.B.					320		-80	
104+50 To 107+60	S.E. Ramp		620						
107+60	S.E. Ramp						40		
200+40 To 204+20	N.E. Ramp		760						
303+10 To 306+50	N.W. Ramp		680						
306+50	N.W. Ramp						45		
400+50 To 404+10	S.W. Ramp		720						
0+00 To 9+50	Washington Ave.	1,700	1,900						
0+00 To 2+30	Washington Ave.			720					
1+60 To 2+35	Washington Ave.					75			
2+60 To 3+00	Washington Ave.					40			
2+70 To 3+50	Washington Ave.			250					
4+10 To 4+60	Washington Ave.					50			
5+30 To 5+80	Washington Ave.					50			
4+36 To 5+55	Washington Ave.		240						
6+36 To 9+40	Washington Ave.			1,250					
Opp. 2+40	Washington Ave.					15			
Opp. 2+60	Washington Ave.					15			
76+20 To 77+00	Accel. Lane W.B.	80							
77+00 To 81+00	Accel. Lane W.B.		400			400		+10	
88+00 To 90+00	Decel. Lane W.B.					400		+15	
Opp. 74+80 To Opp. 88+00	Frontage Road		2,640						
Opp. 81+00 To Opp. 82+00	Slip Ramp		200						
Opp. 82+00 To Opp. 83+40	Frontage Road				280		-60		
Opp. 78+15	Sunshine Pkwy.					15			
Opp. 85+00	Lily Lane	-60	180	180		15			
Opp. 85+15 To Opp. 86+55	Lily Lane					165			
136+40 To 138+70	Accel. Lane W.B.	230							
138+70 To 141+60	Accel. Lane W.B.		290			290		+90	
134+30 To 143+25	Transition E.B.		1790	1,790		895			
134+30 To 141+75	Mainline W.B. (2-lane)	745	745	1,490		745			
141+75 To 143+25	Transition E.B.		150	300		150			
1+10 To 16+00	Temp. Connection		2,980						
1+10 To 2+85	Temp. Connection			350					
3+25 To 6+55	Temp. Connection			660					
6+55 To 8+50	Temp. Connection			780					
8+75 To 10+00	Temp. Connection				125				
8+90 To 10+20	Temp. Connection			240					
10+20 To 12+50	Temp. Connection			920					
12+50 To 13+00	Temp. Connection			100					
13+00 To 16+00	Temp. Connection	300		300					
3+20 To 5+00	Temp. Connection	180							
2+75 To 3+20	Temp. Connection			110					
2+35 To 9+00	Easley Rd. Ramp		1,330						
2+35 To 5+45	Easley Rd. Ramp	310		310					
5+60 To 5+90	Easley Rd. Ramp					60			
1+25 To 2+60	Cross Connection		225	270					
2+60	Cross Connection					12			

STATION	LOCATION	PAVEMENT MARKING LINES (Linear Feet)							
		LANE WHITE BROKEN 5 INCH	EDGE WHITE SOLID 3 INCH	BARRIER YELLOW SOLID 5 INCH	CHANNELIZING WHITE SOLID 5 INCH	WHITE SOLID 10 INCH	STOP WHITE SOLID 24 INCH	CROSS- HATCH WHITE SOLID 12 INCH	PARKING WHITE SOLID 5 INCH
7+30 To 7+50	Temp. Connection					40			
9+00 To 21+80	W. 44th. Ave.		2,560						
9+00 To 12+50	W. 44th. Ave.	350		700					
12+50 To 16+50	W. 44th. Ave.	400		400					
16+50 To 21+80	W. 44th. Ave.			1,130			-40		
Opp. 20+60	W. 44th. Ave.		80				20		
22+10 To 23+10	W. 44th. Ave.			520					
Total Linear Feet per Line Type		20,533	39,143	31,866	4,115	217	795		
As Constructed Approximate Lengths		18,423	40,886	6,510	4,235	20	0		

NOTE:
FOR DETAILS OF PAVEMENT MARKING
LINES AND LINE PLACEMENT, SEE
STANDARD S-614-29A.

SUMMARY OF PAINT QUANTITIES

GALLONS OF PAINT		As Const.
YELLOW	152	
WHITE	204	
TOTAL	353	265

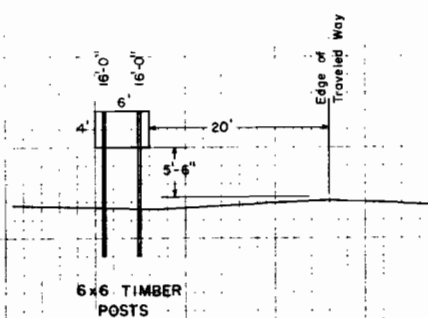
CROSS SECTIONS AT CLASS III SIGN LOCATIONS

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032 - 1 (10)	36	

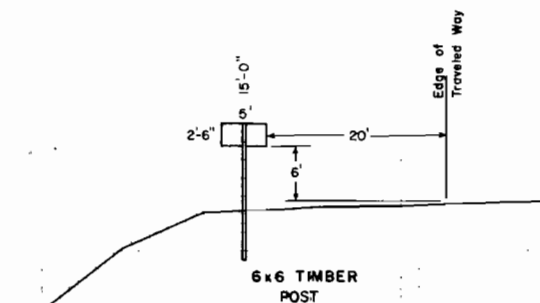
AS CONSTRUCTED

REVISED DATE

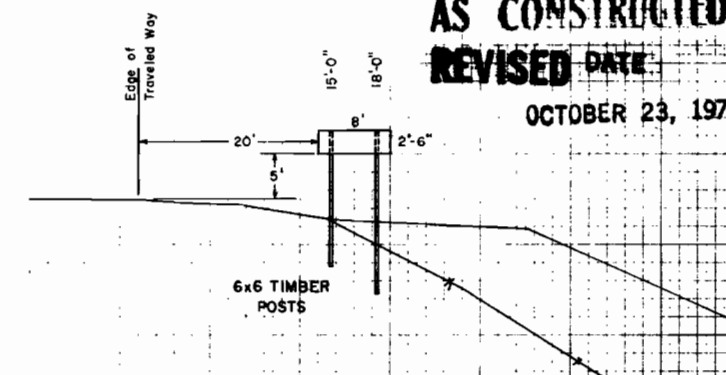
OCTOBER 23, 1970



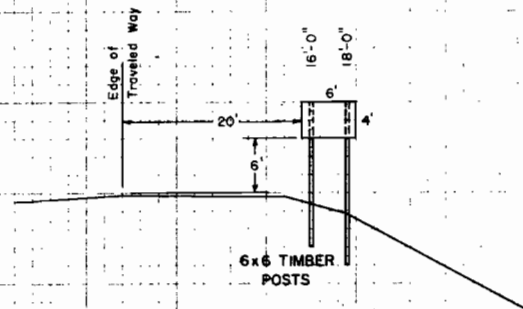
SIGN NO. 3
STA. 72+80 - U.S. 6



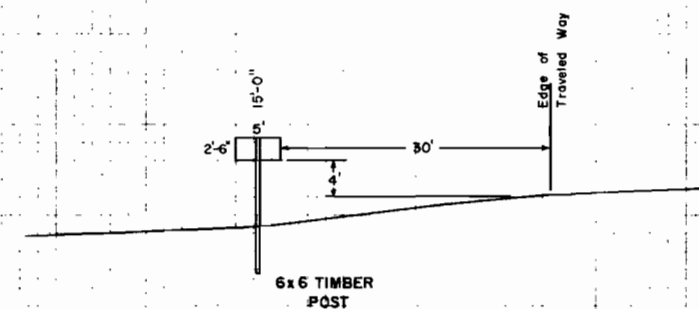
Reset SIGN NO. 4
STA. 60+50 - U.S. 6



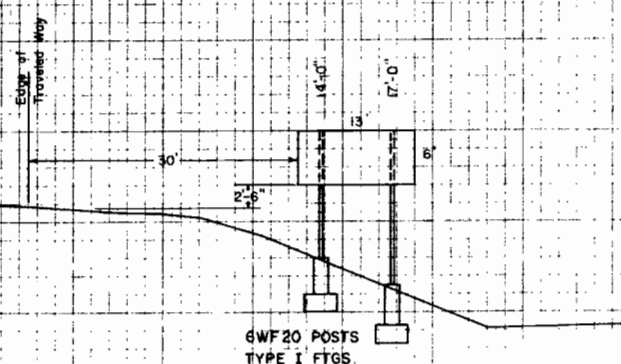
SIGN NO. 25
STA. 176+70 - U.S. 6



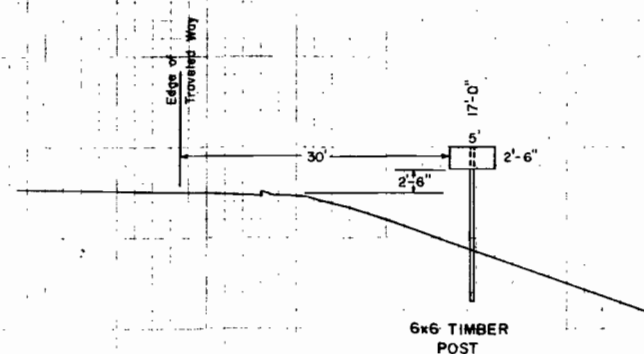
SIGN NO. 28
STA. 155+00 - U.S. 6



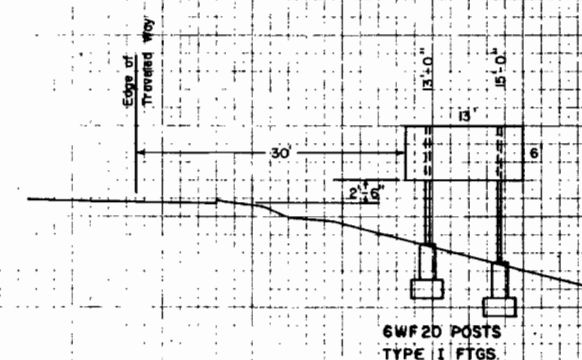
SIGN NO. 33
STA. 159+00 - U.S. 6



SIGN NO. 48
STA. 42+50 - S.H. 58



SIGN NO. 50
STA. 45+50 - S.H. 58



SIGN NO. 51
STA. 52+00 - S.H. 58

DATE	BY	FINAL SURVEY
		NOTED
		NOTE BOOK
		NO.

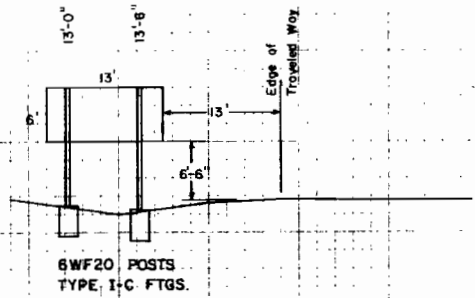
DATE	BY	ORIGINAL SURVEY
		NOTED
		NOTE BOOK
		NO.

CROSS SECTIONS AT CLASS III SIGN LOCATIONS

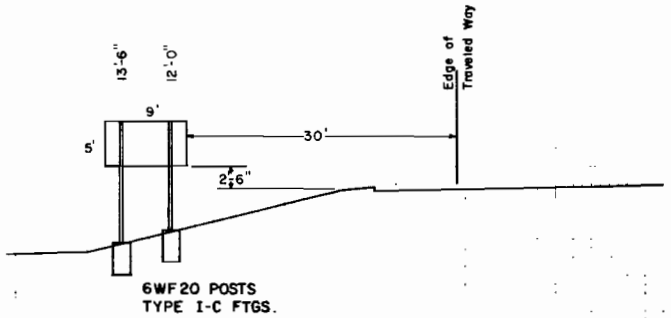
FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1 (10)	37	

AS CONSTRUCTED
REVISED

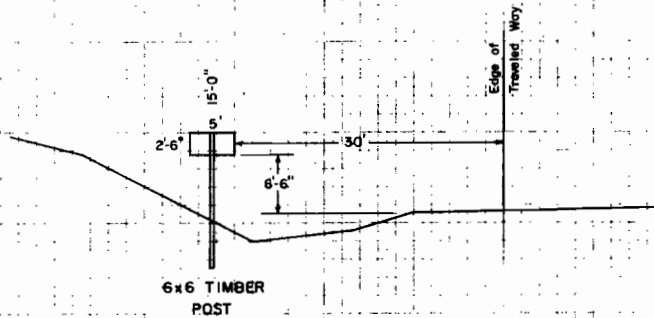
OCTOBER 23, 1970



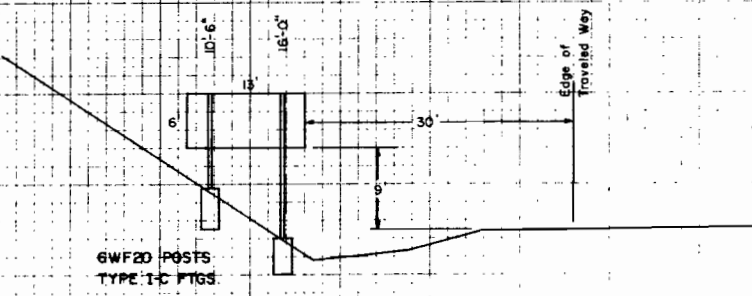
SIGN NO. 96
STA. 75+00 - S.H. 58



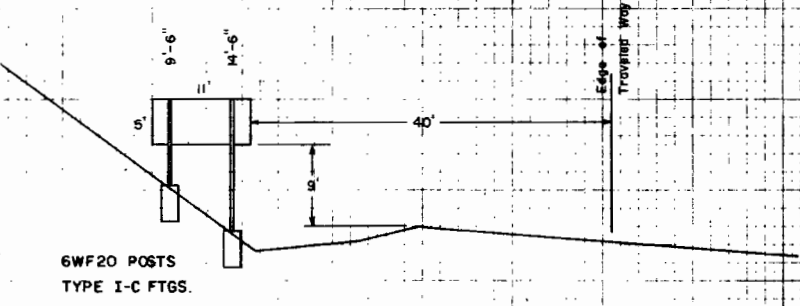
SIGN NO. 107
STA. 94+00 - S.H. 58



SIGN NO. 109
STA. 99+50 - S.H. 58



SIGN NO. 114
STA. 122+00 - S.H. 58
122+00



SIGN NO. 115
STA. 138+00 - S.H. 58

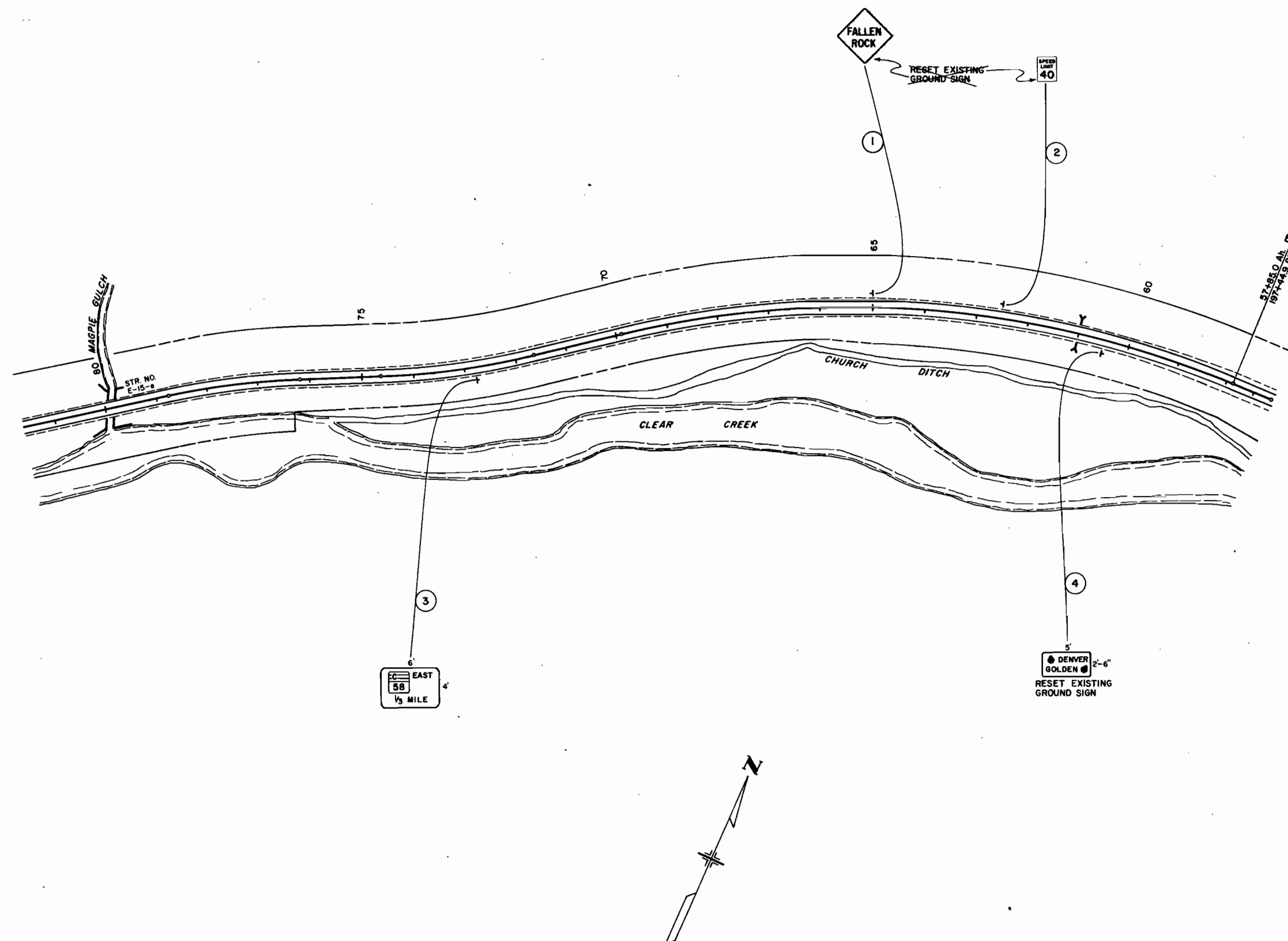
FINAL
SURVEY
NOTED
DATE

ORIGINAL
SURVEY
NOTE BOOK
DATE

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1(10)	38	

AS CONSTRUCTED
REVISED DATE

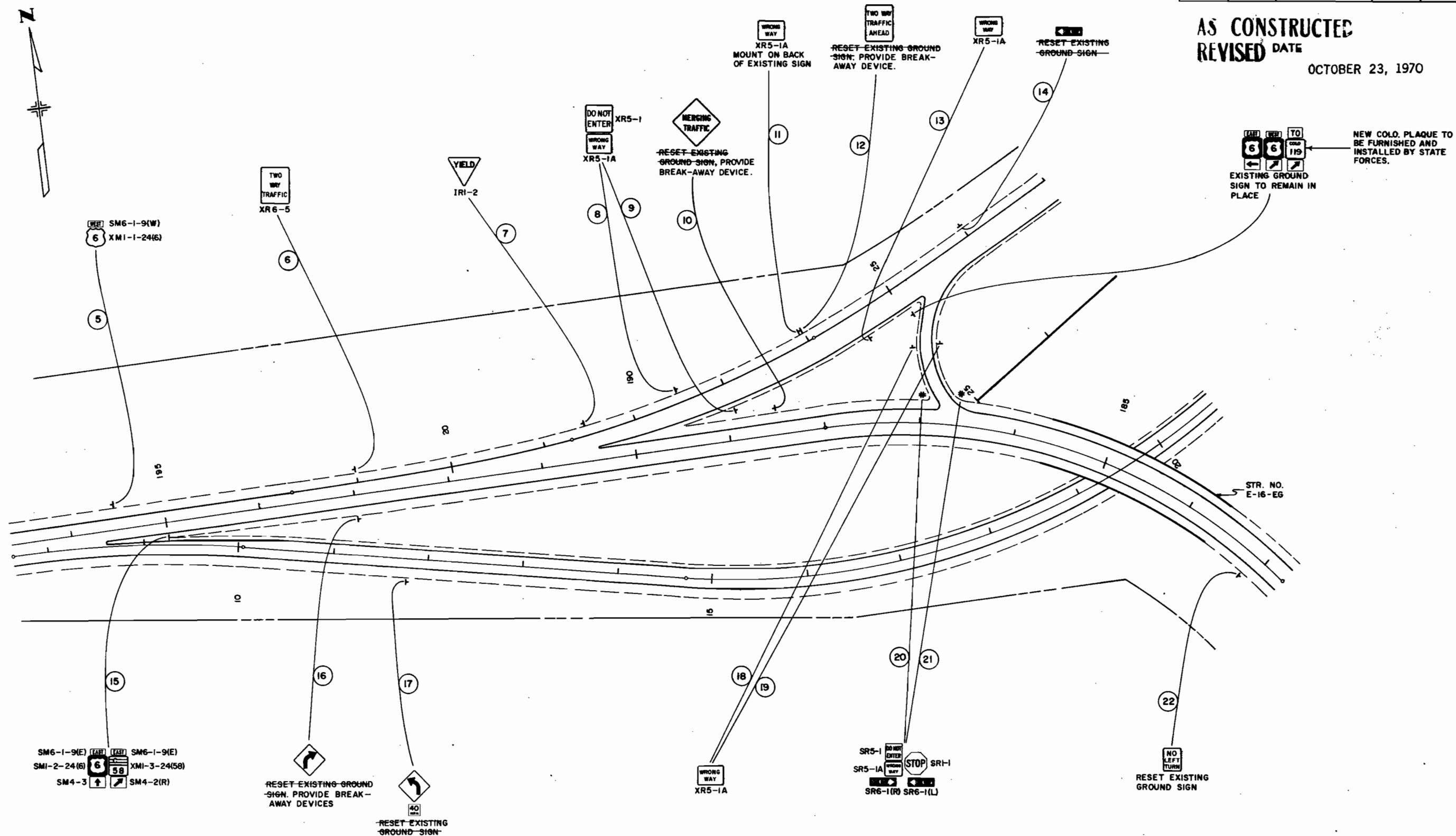
OCTOBER 23, 1970



FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	COLORADO	F 032-1(10)	39	

AS CONSTRUCTED
REVISED DATE

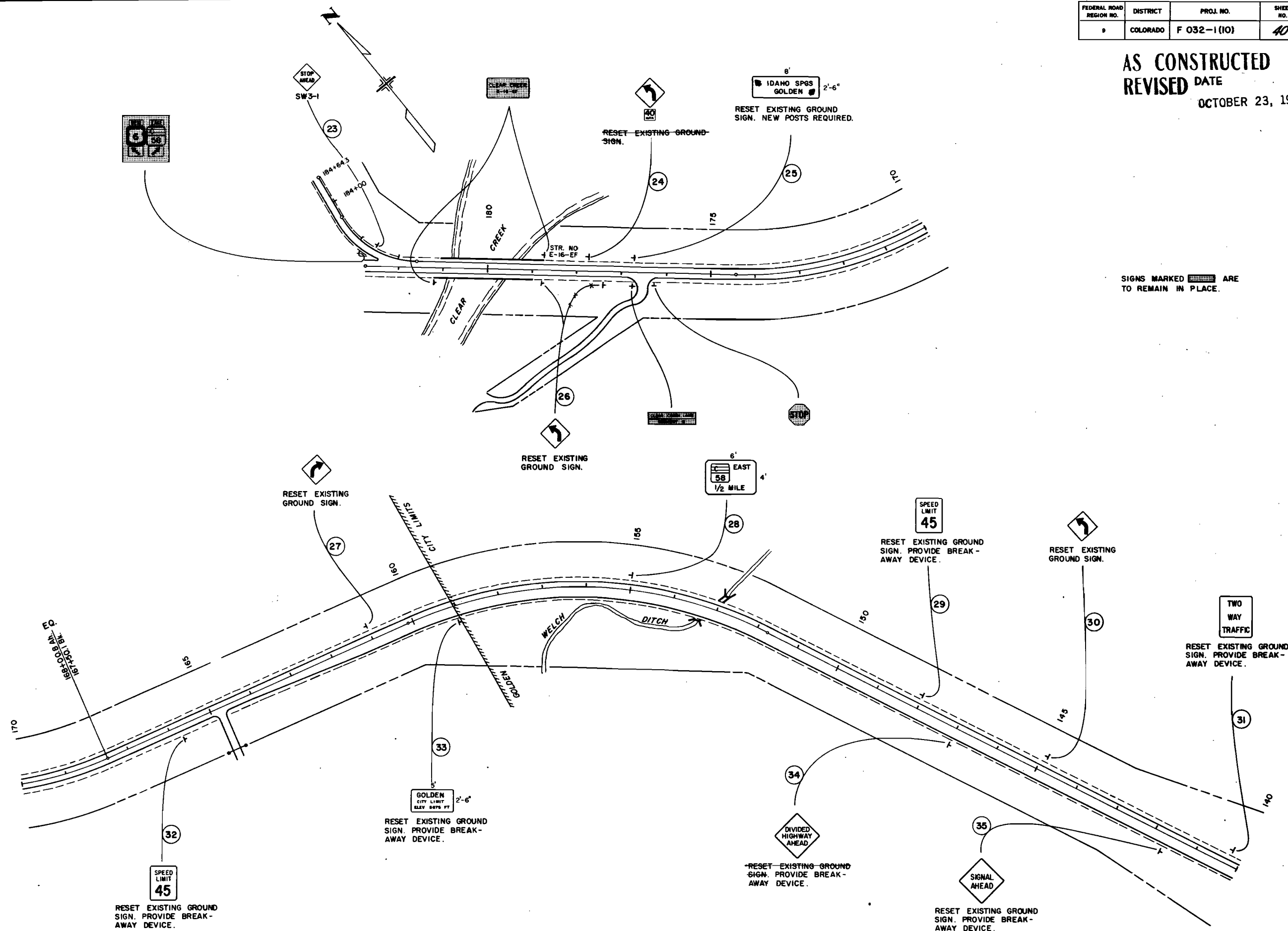
OCTOBER 23, 1970



NOTE:
ALL CONFLICTING SIGNS ARE TO BE
REMOVED BY STATE FORCES.

AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970

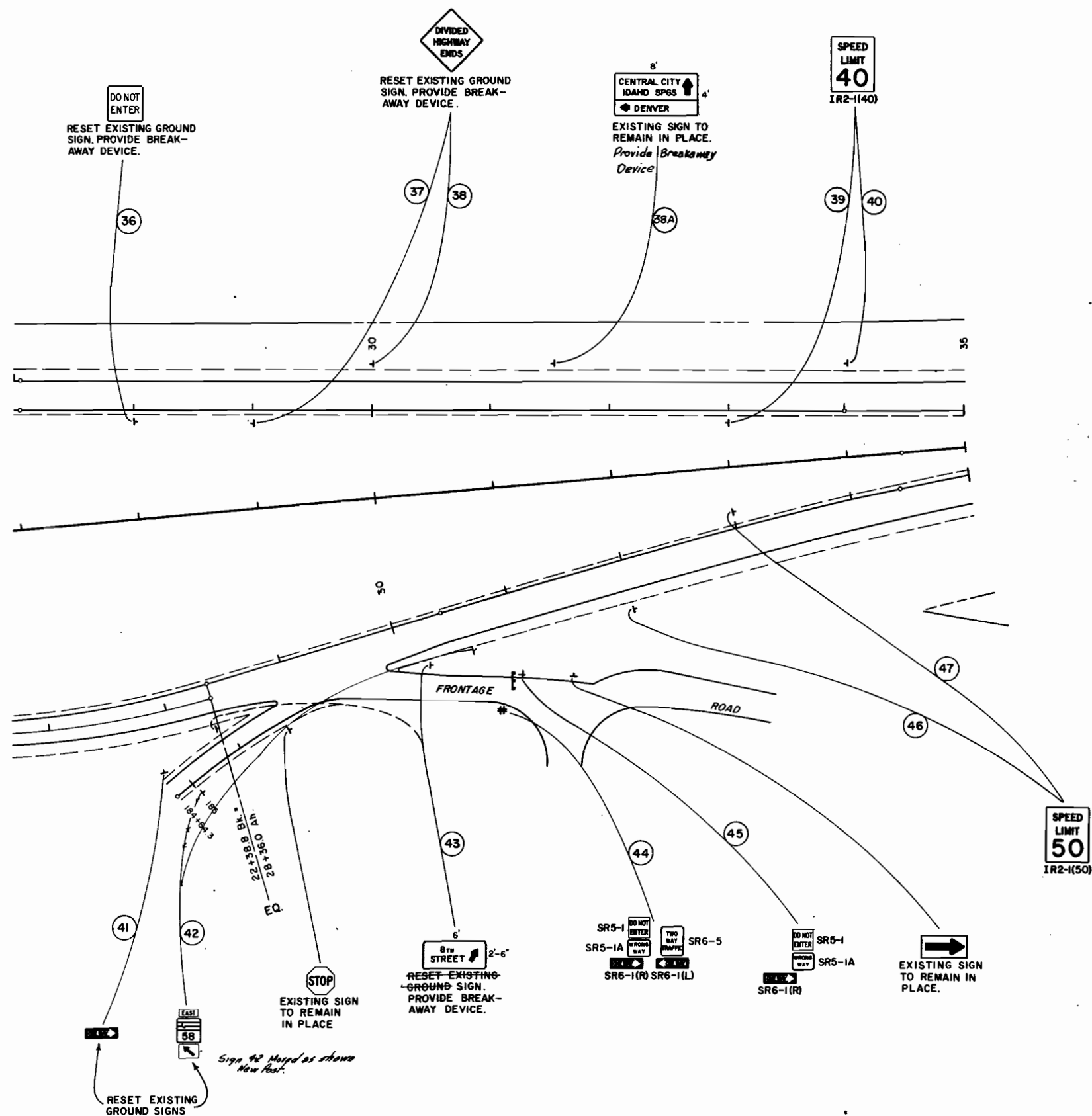
SIGNS MARKED ARE
TO REMAIN IN PLACE.



FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1(10)	41	

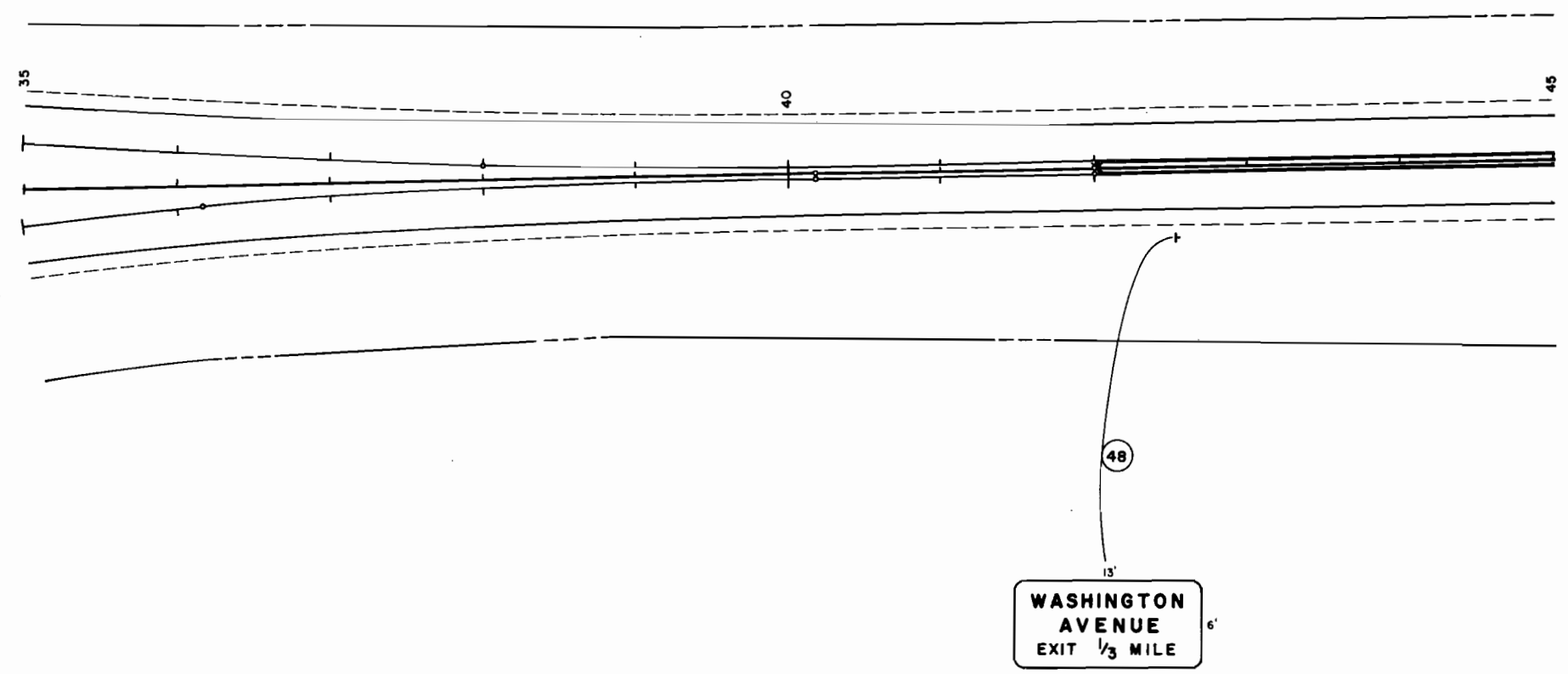
AS CONSTRUCTED
REVISED DATE

OCTOBER 23, 1970



NOTE:
ALL CONFLICTING SIGNS ARE TO
BE REMOVED BY STATE FORCES.

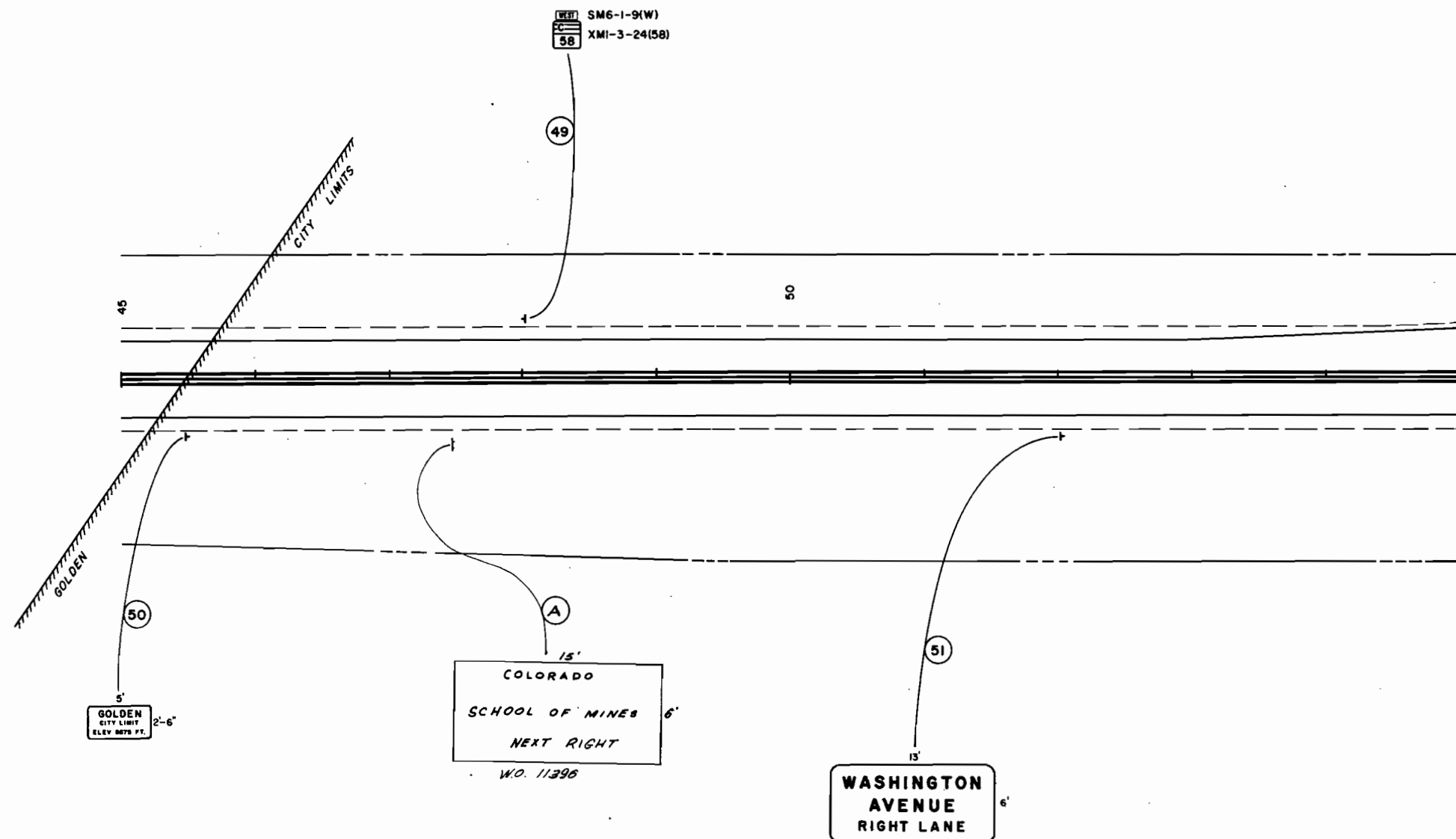
FEDERAL ROAD SECTION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1(10)	42	



FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1(10)	43	

AS CONSTRUCTED
REVISED DATE

OCTOBER 23, 1970



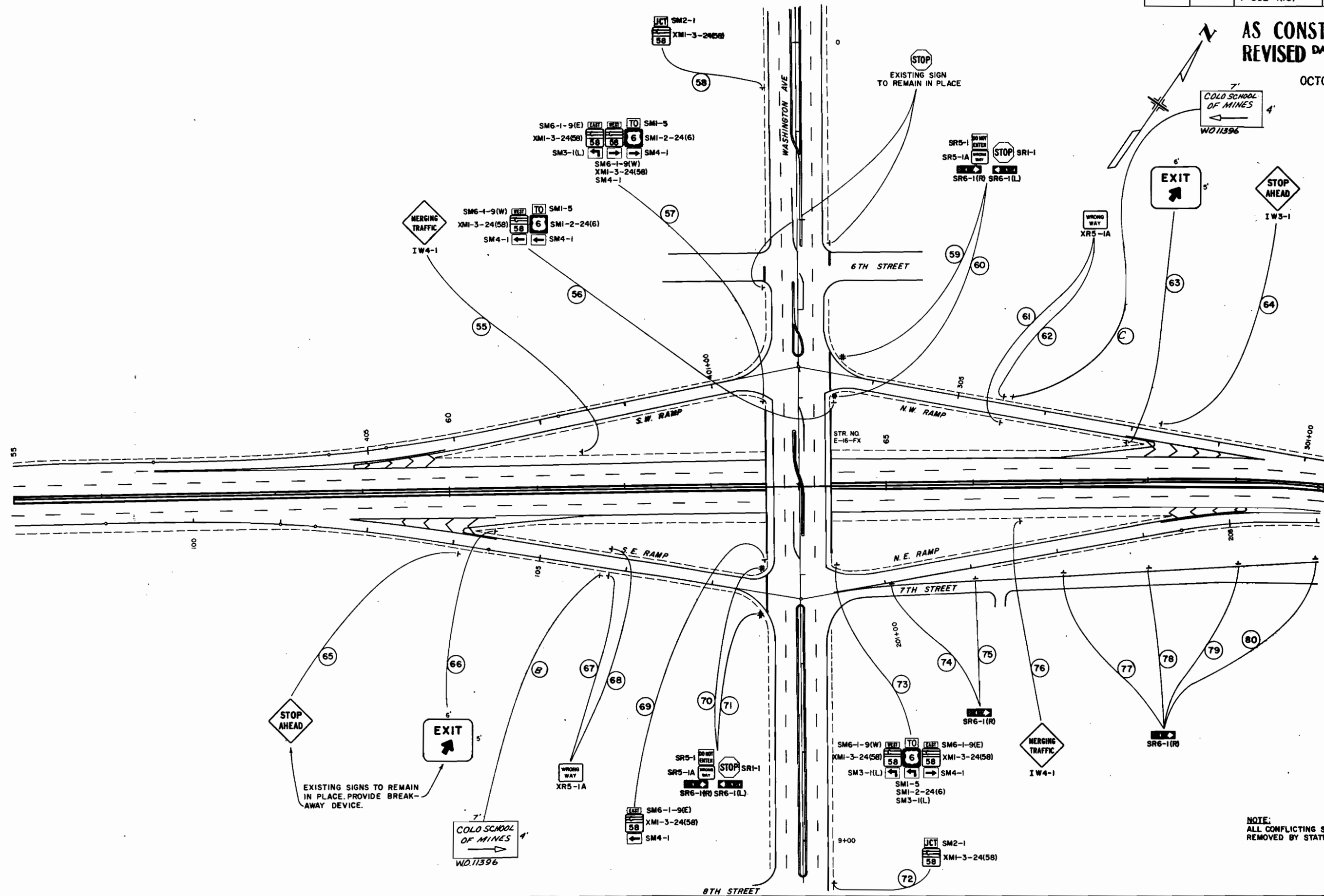
NOTE:
ALL CONFLICTING SIGNS ARE TO BE
REMOVED BY STATE FORCES.

WASHINGTON AVE. INTERCHANGE

FEDERAL ROAD DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9 COLORADO	F 032-1(10)	44	

AS CONSTRUCTED
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OCTOBER 23, 1970

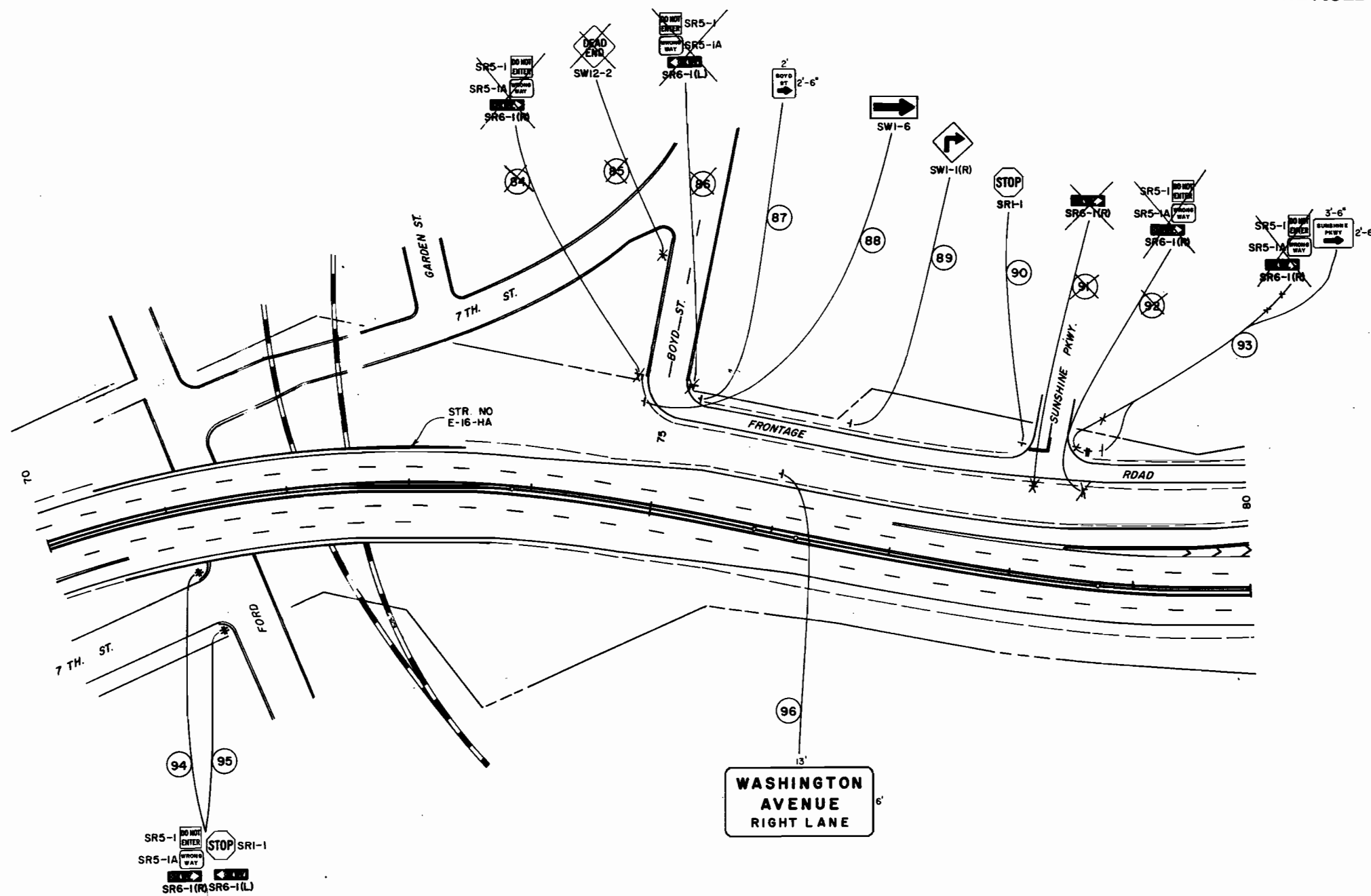


EXISTING SIGNS TO REMAIN
IN PLACE. PROVIDE BREAK-
AWAY DEVICE.

NOTE:
ALL CONFLICTING SIGNS ARE TO BE
REMOVED BY STATE FORCES.

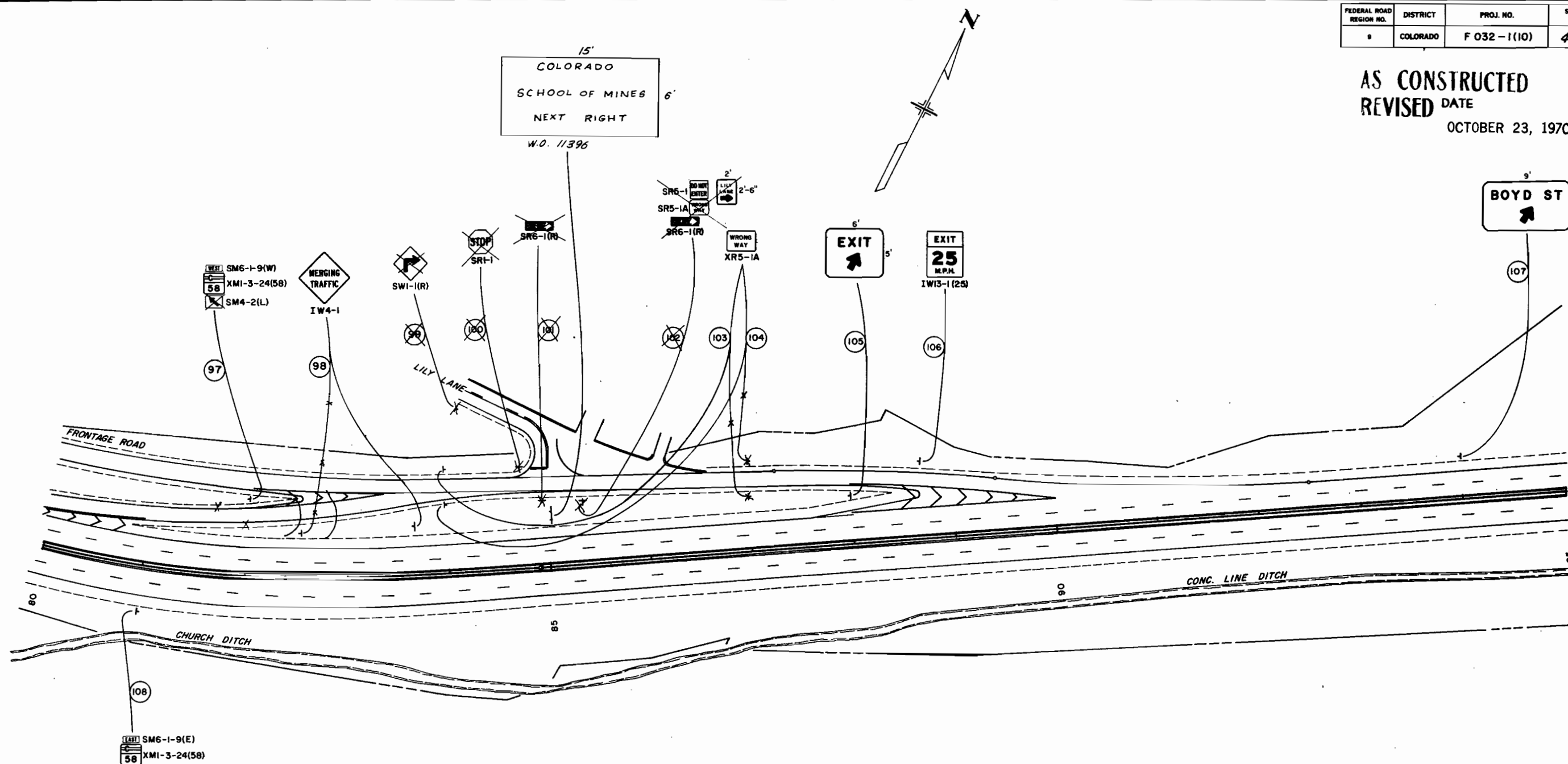
FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1 (10)	45	

AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970



NOTE:
ALL CONFLICTING SIGNS ARE TO
BE REMOVED BY STATE FORCES.

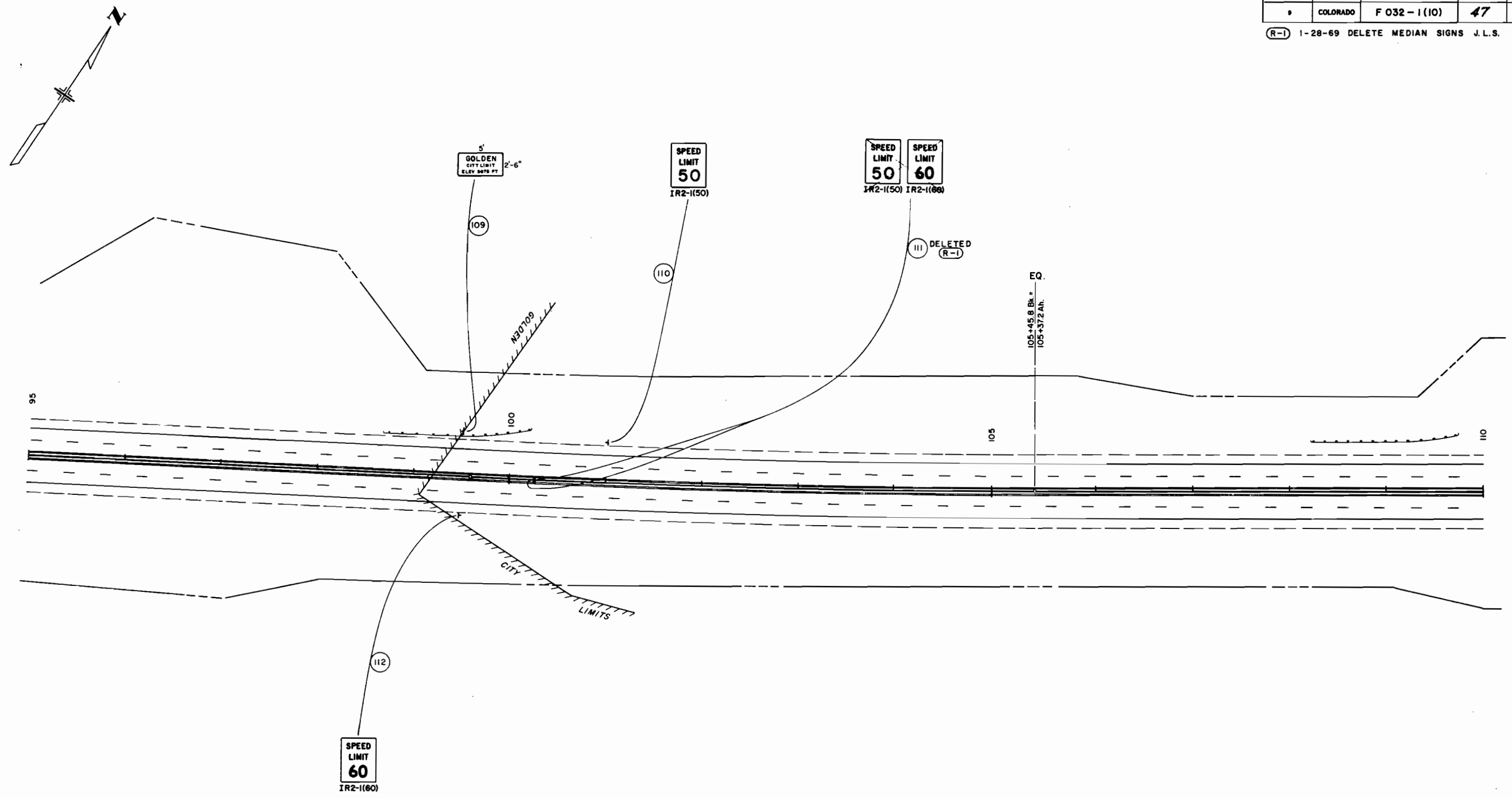
AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970



NOTE:
ALL CONFLICTING SIGNS ARE TO BE
REMOVED BY STATE FORCES .

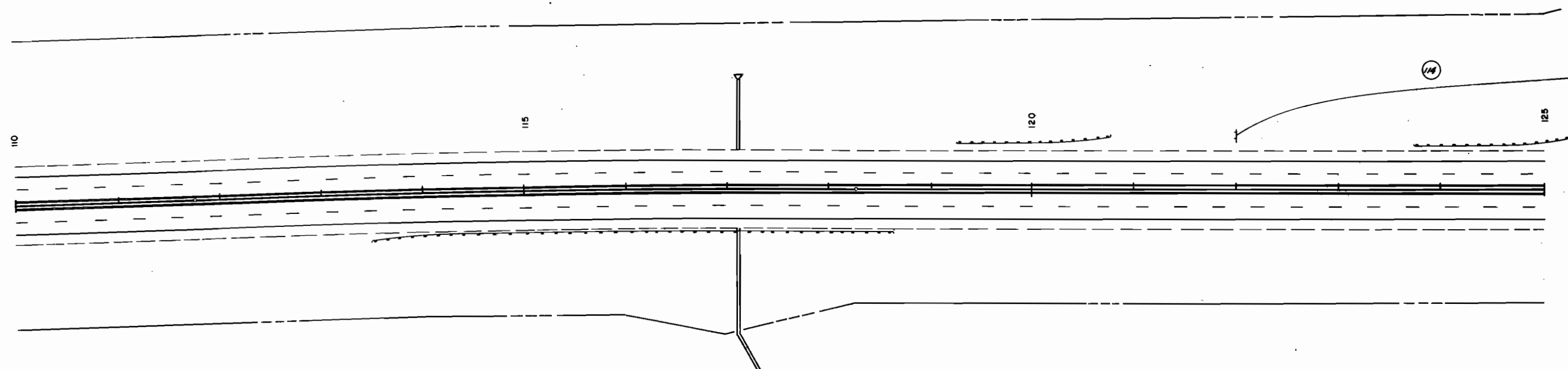
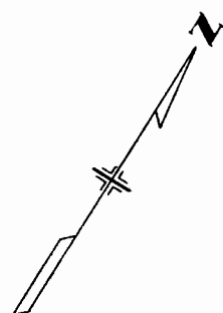
FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1 (10)	47	

(R-1) 1-28-69 DELETE MEDIAN SIGNS J.L.S.



FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1 (10)	48	

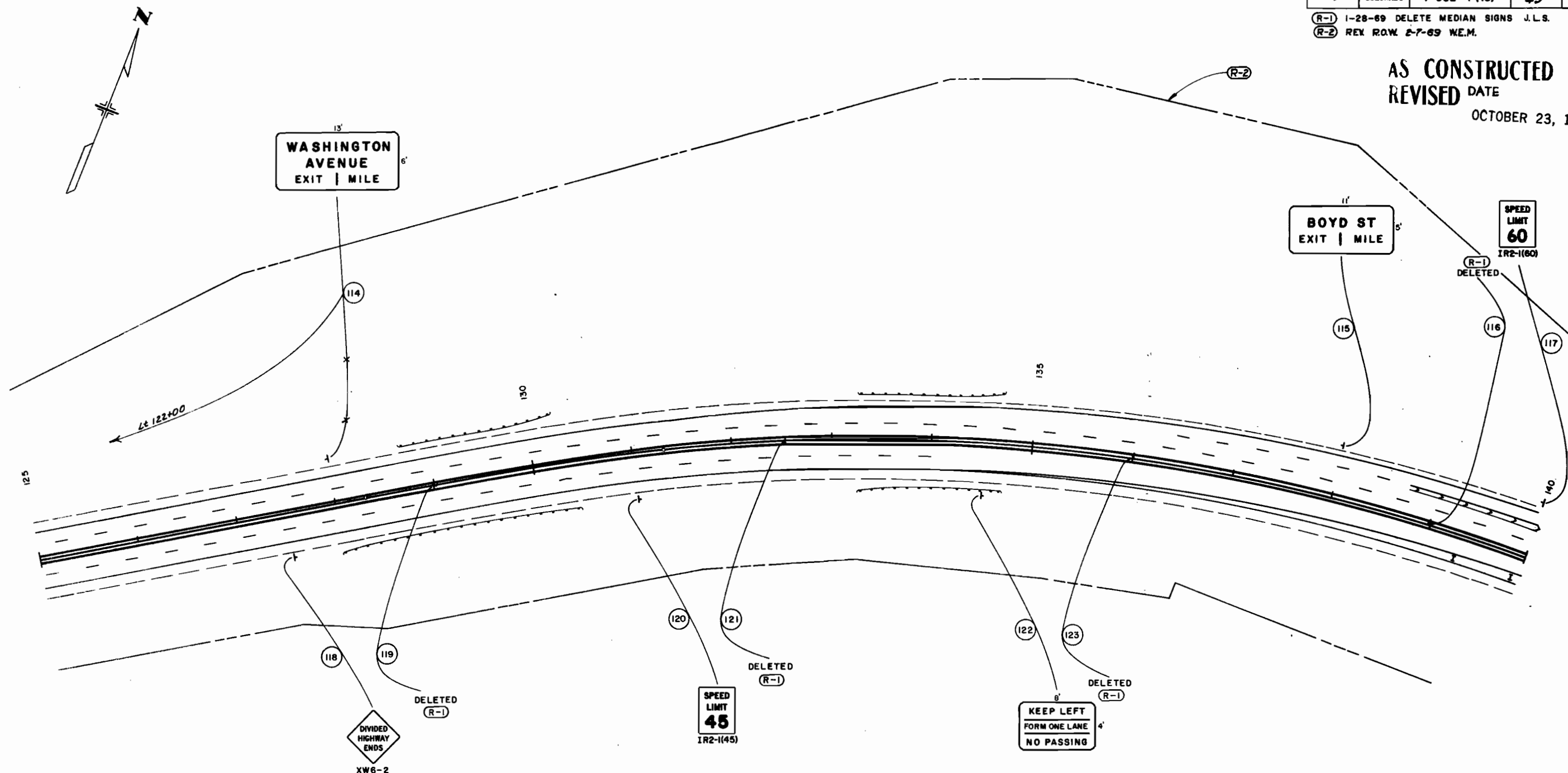
AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970



FEDERAL ROAD SECTION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1 (10)	49	

(R-1) 1-28-69 DELETE MEDIAN SIGNS J.L.S.
(R-2) REV ROW 2-7-69 W.E.M.

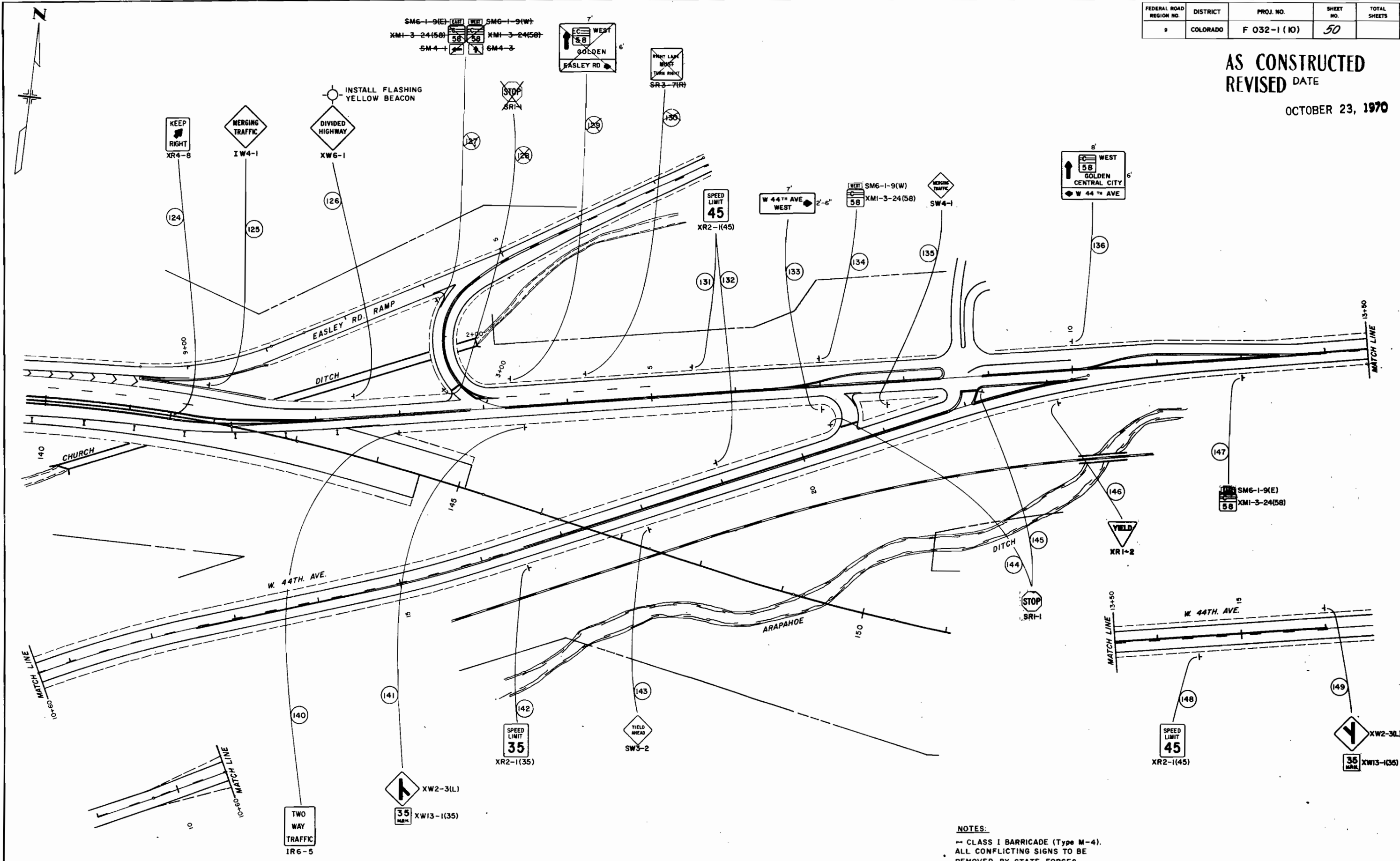
AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970



NOTE:
— CLASS I BARRICADE (Type M-4).

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F 032-1 (10)	50	

AS CONSTRUCTED
REVISED DATE
OCTOBER 23, 1970



NOTES:
- CLASS I BARRICADE (Type M-4).
ALL CONFLICTING SIGNS TO BE
REMOVED BY STATE FORCES.