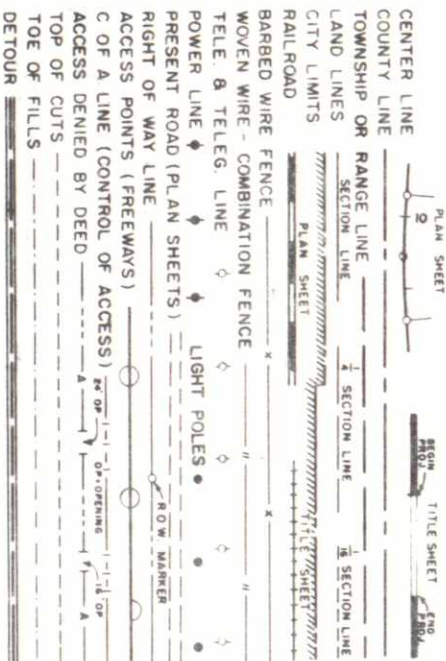


CONVENTIONAL SIGNS



AS CONSTRUCTED
REVISED DATE OCT. 6, 1973

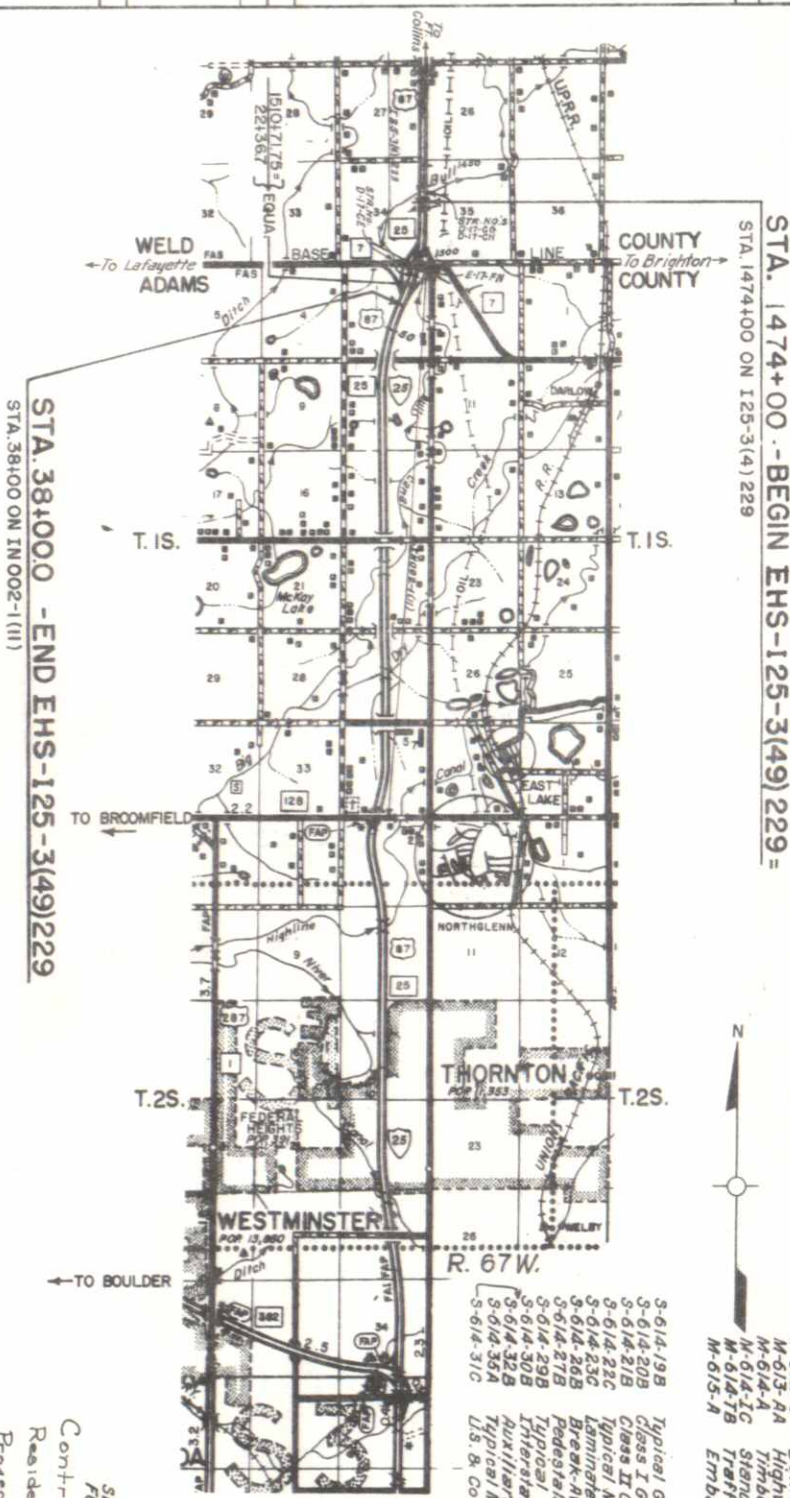
TABULATION OF LENGTH & DESIGN DATA

STATION	ROADWAY LIN. FT.	MAJOR STRUCT. LIN. FT.
1474+00 BKG. EHS-125-3(49)229 = 1474+00 ON I 25-3(4)229	3671.75	
1510+71.75 Bk. = } EQUA. 22+36.7 Aft. }	1563.30	
38+00.0 END EHS-125-3(49)229 38+00.0 — ON IN 002-1(11)		
TOTALS	5235.05	
SUMMARY	LIN. FT.	MILES
Roadway	5235.05	0.991
Major Structure		
Roadway (Net & Gross Length)	5235.05	0.991
DESIGN DATA		
Maximum Degree of Curve	1° 45'	
Maximum Grade	2.267%	
Minimum S.S.D. Horizontal	725'	
Minimum S.S.D. Vertical	815'	
Maximum Design Speed	70 M.P.H.	
NOTE:		
1991 Design Traffic Volume	45,500 ADT	
	5,460 DHV	

THE STATE DEPARTMENT OF HIGHWAYS
DIVISION OF HIGHWAYS—STATE OF COLORADO

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. EHS-125-3(49)229
STATE HIGHWAY NO. 25
ADAMS COUNTY

SCALES OF ORIGINAL DRAWINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE, 1 IN. = 10 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	Title Page, Sketch Map and Tabulation of Length & Design Data.
2	Typical Sections and General Notes.
3-5	Summary of Approximate Quantities.
6	Structural Quantities.
7	Surfacing Plan, Delineators, Asphaltic Shoulder Roll, Guard Rail and Fencing Requirements.
8	Interchange I 25 & S.H. 7, Sta. 1502+.
9	Interchange Ramp Profiles, Sta. 1502+.
10	Lighting Plan at Interchange I 25 & S.H. 7, Sta. 1502+.
11-12	Bridge Rail (Type 5).
13	Standard M-60/A Revised for this project.
14	Bull Canal Channel Change.
15	First Lateral Connection - Sta. 1505+.
16	Second Lateral Connection - Sta. 1503+ & Diversion St., Sta. 15+ Cr. Rd.
17	Layout of Guard Rail under Bridge, Sta. 1502+ & at Bridge Approaches.
18-20	Alignment Plan & Profile.
21-34	Signing Plans.
35	Summary of Earthwork Quantities.
36-39	Cross Sections for Structures.
40-57	Cross Sections for Bull Canal Channel Change.
58-64	Cross Sections for Roadway.
78-81	Fill Old Channel.

STANDARD	DESCRIPTION	QUANTITY
M-203-A	Super-elevation of Curves - Divided Highways.	7-30-68
M-203-B	Approach Roadway Flaring, Cut Slope Treatment, Bridge & Crest Widening.	4-27-70
M-203-C	Ditch Types.	7-23-68
M-206-A	Excavation and Backfill for Structures.	3-1-71
M-500-A	Letters and Figures for Structure Numbers.	7-1-65
M-601-D	Wingwalls for Concrete Box Culverts - (2:1 Side Slopes).	10-25-68
M-601-L	Headwall, Intercepting Headwall and Culvert Outlet Paving.	5-24-71
M-603-M	Metal Culvert Pipe - H-20 Loading.	8-11-71
M-603-RC	Reinforced Concrete Pipe.	3-1-71
M-604-B	Inlet, Type C.	5-24-71
M-604-D	Steps for Manholes and Inlets.	7-23-68
M-606-B	Guard Rail, Type 5, Box Beam Median Barrier - Steel.	12-20-71
M-607-A	Wire Fences and Gates.	8-19-71
M-609-A	Curbs and Gutters.	5-7-71
M-612-C	Delineators.	7-11-68
M-614-A	Highway Lighting.	4-9-71
M-614-B	Timber Barricades.	4-23-69
M-614-IC	Standard Construction Identification Signs - (2 sheets)	9-23-70
M-615-A	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-B	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-C	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-D	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-E	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-F	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-G	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-H	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-I	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-J	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-K	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-L	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-M	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-N	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-O	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-P	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-Q	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-R	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-S	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-T	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-U	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-V	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-W	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-X	Standard Construction Identification Signs - (3 sheets)	7-30-68
M-615-Y	Standard Construction Identification Signs - (3 sheets)	11-22-71
M-615-Z	Standard Construction Identification Signs - (3 sheets)	7-30-68

SEE SPECIAL PROVISIONS
FOR NOTICE TO BIDDERS

Contractor: Lawrence Const. Co.
Resident Engr.: M.H. Geise, P.E.
Project Start: March 20, 1972
Project End: [Signature]
Approved: [Signature]
Date: Feb 1, 1974

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.

AS (CONSTRUCTED)
REVISED DATE Oct 6, 1973

1465

1470

R-1
1473+00 - Regd' Plug
24" & 29"x18" CSP's Lt.

1475

1480

1485

1490



R-1 Rev. Alignment and Note 1-26-72 WEM

S.W. 1/4 Sec. 35
T.1N., R.68 W.

SECTION	DATE	BY	CHECKED	DATE	BY
VIII	1973	WEM	1/8	81	

DOT FORM 66

DOT FORM 66

R-1
1000' APPROACH TO PROJECT

STA. 1474+00-BEGIN
EHS-125-3(49)229=
STA. 1474+00 on I 25-3(4)229

1474+00 - Regd Identification
Sign, Rt. (State Forces)

Med.
1482+50 - Rem. Present
Inlet Grating & Frame.
Raise Concrete Inlet in
Median (Left).
Regd Type "C" Inlet Grating
& Frame in Median.

Lt.
1482+50 Remove Present
Inlet Grating & Frame.
Raise Conc. Inlet on Left
Required Type "C" Inlet Grating
& Frame on Left.

PC 0+00 =
68 RT. 1485+52.66
49.0

PC 0+00 =
63.17 1488+00.22
+14.1

PT. 3+52.38 BK. =
4+01.99 AH.
68.1

For Curve Data
See Sheet 8.

S.E. 1/4 Sec. 34
T.1N., R.68 W.

Uncl. Exc.
Emb. 15%
Excess Etc.
O' Haul (Yd. Mil.)

1470

1475

1480

1485

1490

5140

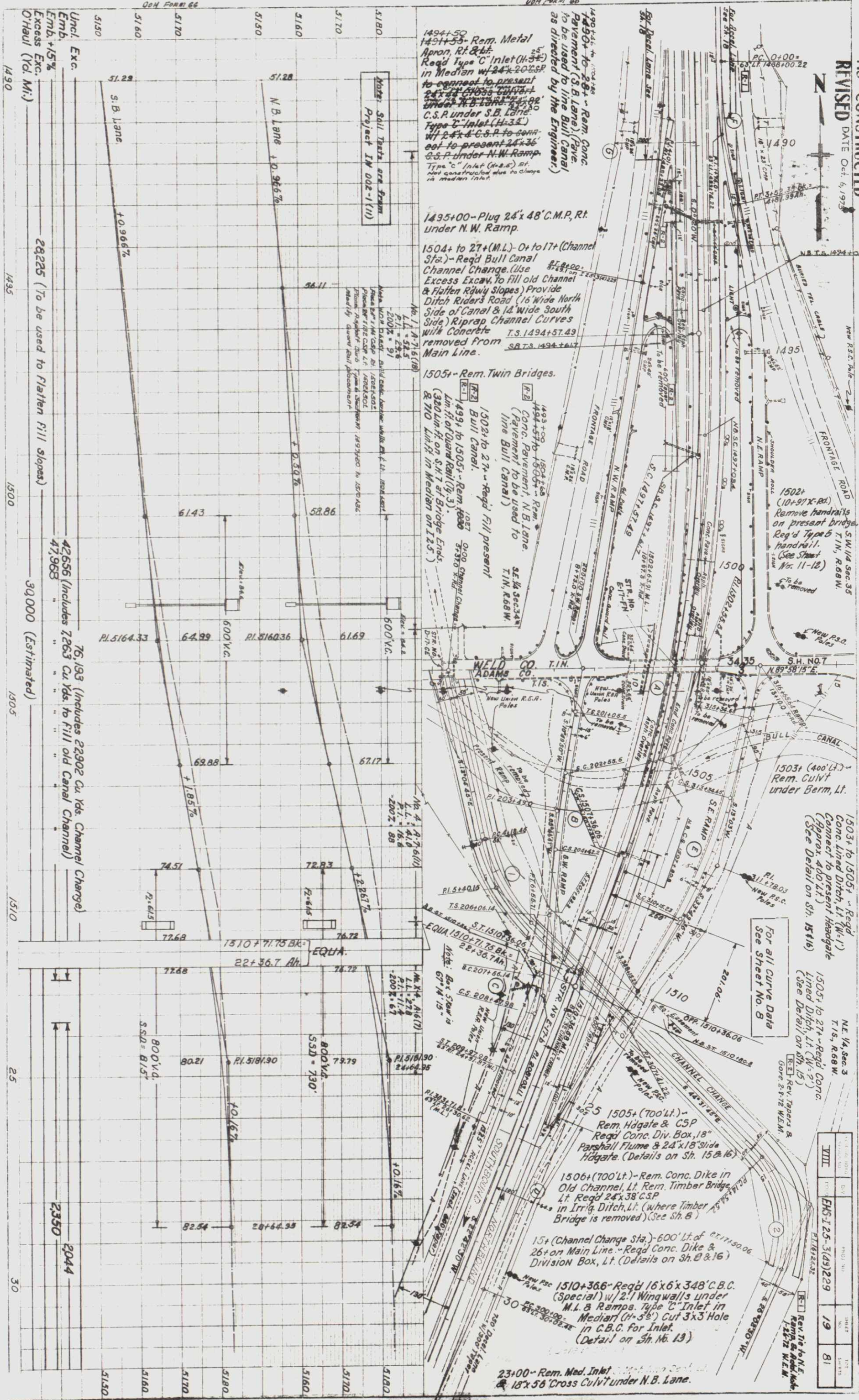
5150

5160

5140

5150

5160

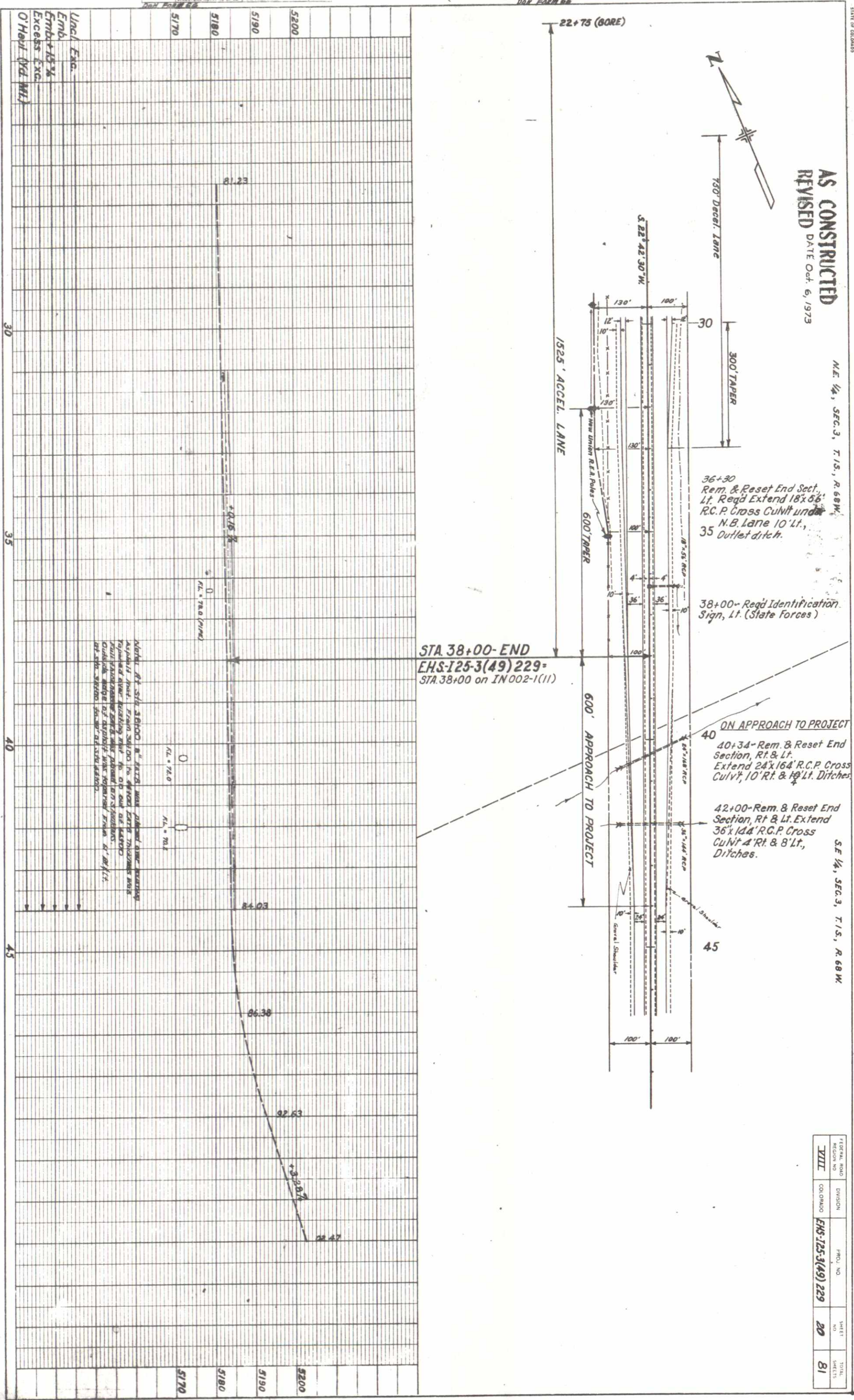


AS CONSTRUCTED
REVISED DATE Oct. 6, 1973

N.E. 1/4, SEC. 3, T. 15., R. 68W.

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

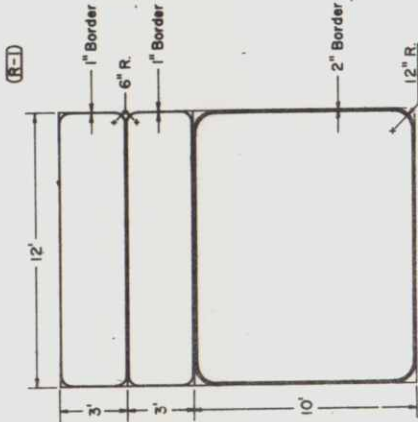
FEDERAL ROAD REGION NO	DIVISION	PROJ. NO.	SHEET NO	TOTAL SHEETS
<u>VIII</u>	COLORADO	<i>FHS-125-3(49)</i>	<i>20</i>	<i>81</i>



FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	EHS 125-3(49)229	21	81
(R-1) Rev. Totals & Add Table 1-26-72 J.D.S.				

TABULATION OF SIGNING QUANTITIES

ITEM NO.	ITEM	QTY	UNIT	FEDERAL TOTALS	STATE TOTALS	PROJECT TOTALS
202	REM. GROUND SIGN	24,76.90	EACH	40		34
202	REM. OVERPASS MOUNTED SIGN (CLASS B)	77,165	EACH	2		2
210	RES. GROUND SIGN	176	EACH	13		1
614	PVMT. MKG. PAINT	153	GAL.	134		134
614	SIGN PANEL (CL. I)	172	SQ. FT.	24		24
614	SIGN PANEL (CL. II)	172-170	SQ. FT.	204		204
614	SIGN PANEL (CL. III)	185	SQ. FT.	332	564	1012
614	TIMBER SIGN POST (4 x 4)	170	LIN. FT.	63		63
614	TIMBER SIGN POST (6 x 6)	170	LIN. FT.	364		364
614	STEEL SIGN POST (12WF31)	1324	LIN. FT.	133		133
614	CONC. FOOTING (TY. IV)	48,49,50,70	EACH	8		8
614	MODIFICATION TIM. SIGN POST	166	EACH	1		1



Example of Guide Sign Showing Border Requirements

BORDER REQUIREMENTS

* MINIMUM SIGN PANEL DIMENSION	LESS THAN 3'	3' TO 5'	5' TO 7'	7' TO 12'	12' AND OVER
BORDER	1"	1"	1"	2"	3"
CORNER RADIUS	3"	6"	9"	12"	12"

* For sign panels which are line divided use the minimum dimension of the smaller section.

AS CONSTRUCTED
REVISED DATE Oct 6, 1973

TABULATION OF SIGNS

FEDERAL ROAD DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
XIII	COLONADO EHS 125-3(49)229	22	81

R-1 Rev. Tab 1-26-72 J.D.S.

SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE	BACK- GROUND COLOR	REMOVE GROUND SIGN (EACH)	RESET GROUND SIGN (EACH)	MODIFY		NO. OF POSTS	LENGTH OF POST	POST TYPE (LIN. FT.)					CONC. FOOTING TYPE (EACH)				SIGN PANEL (SQ. FT.)		
							TIMBER SIGN POST (EACH)	STEEL SIGN POST (EACH)			4 x 4	6 x 6	6W/20 BEAM	6W/20 BEAM	12W/31 BEAM	I-C	II	IX	CLASS I	CLASS II	CLASS III	FEDERAL
1		1437+00																				
2	SPECIAL	1440+50	12' x 16'	GREEN	1				1-1	23'-0"					4 1/2			2			120.00	48.00
3		1482+50								23'-0"												
4		1459+00																				
5		1460+00			1																	
6		1466+50																				
7	IM3-1-15	1469+00	30" x 15"	BLUE																	3.13	
8		1485+50																				
9		1465+50			1																	
10		1479+00																				
11		1478+50																				
12	SPECIAL	1482+50	12' x 16'	GREEN	1				1-1	22'-6"					4 1/2			2			120.00	48.00
13	DELETED									24'-0"												
14	DELETED																					
15	DELETED																					
16		1489+90			1																	
17		1491+80																				
18	IM4-1(R)		DIAMOND 48" SIDES	YELLOW																	16.00	
188	ETW4-1	1493+50	36" x 24"	YELLOW					1	17'			17								6.00	
19		7+05			1																	
20		N.E. RAMP 7+00			1																	
21		N.E. RAMP 7+10			1																	
22		N.E. RAMP 1493+70			1																	
23		N.E. RAMP 6+50			1																	
24		N.E. RAMP 1495+30			1																	
25		N.E. RAMP 12+50			1																	
26		N.E. RAMP 13+10			1																	
27		N.E. RAMP 1499+50			1																	
28		N.E. RAMP 15+40			1																	
29	SRI-2	N.E. RAMP 15+50	TRIANGLE 36" SIDES	WHITE					1	11'-6"		11.5									3.90	
30A	IM3-3-12		24" x 12"	BLUE																	2.00	
30B	IM3-1-12		24" x 12"	BLUE																	2.00	
30C	IM1-1-24(25)		SHIELD 24" x 24"	BLUE & RED																	4.00	
30D	IM1-2-4(25)	CROSS ROAD	24" x 24"	RED					1	15'		15									4.00	
30E	IM6-3		21" x 15"	BLUE																	2.19	
30F	IM6-2(R)		21" x 15"	BLUE																	2.19	
31		13+60 CROSS ROAD			1																	

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-614-22C.
- PANELS FOR CLASS III SIGNS SHALL BE EITHER LAMINATED ALUMINUM, EXTRUDED ALUMINUM, OR SHEET ALUMINUM. SEE STANDARDS S-614-23C, S-614-24B AND S-614-25C.
- 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-614-18-8.
- 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.
- POST LENGTHS ARE APPROXIMATE ONLY. EXACT LENGTHS TO BE DETERMINED BY THE ENGINEER.