OVERHEAD SIGN STRUCTURE INSPECTION REPORT

Sign Structure Inspection Report

Inventory I

Str No: F-16-RJ
NORTHBOUND

Hwy No: 25
Ref Pt: 209.260

Time: 0:50:00
Weather: CLEAR

Section Letter: A

Temp: 50 F

Type of Structure

Type: SIGN Splice: 1

Latitude: N 39 43 33.7
Longitude: W105 00 38.7

Location: RAMP-US6 EBND TO I25 NBND/SBND

Maintenance Recommendations

Activity No: 100.0 NONE
Comment: NONE

Inspector: CRAIG HAGER
MQS, Inc.

Team Leader: RONALD AKIN
LONCO, Inc.

Date: 10/28/98

Sign Structure Inspection Report

Inventory II

Structural Data

Material: STEEL Coating Condition: GOOD

Comment: PAINTED BLACK COLOR.

Estimate span, cantilever, or arm length 48 feet (+/- 5ft).

Inventory III

Chord Type

Type: DBL ARM - TRUSSED
Comment:

Pole Type (End View)

Type: SINGLE, TAPERED SECTION

Circumference at base:	Lt	44. in.	Rt	44. in.
Perimeter at base:	Lt	in.	Rt	in.

Comment:

Foundation Type

Type: UNKNOWN
Comment:

Inspection A

Attached to: BRIDGE GIRDER AND BRIDGE RAIL/DECK
Comment:

Condition of Sign Structural Member Attachment to retaining wall:

Condition: GOOD
Comment:

Inventory I

General Alignment of all Members

Alignment: GOOD
Comment:

Is there a noticeable tilt to the pole? Measurements are not neccessary if there is no noticeable tilt.

Left: NO Right: NO

in. * in. *

in. * in. *

* Measurements taken 4' (1.2m) above the base plate with a 2' (610mm) level.

Overall Condition of Foundation

Condition: GOOD
Comment:

Connection at Base Plate

Number of anchor bolts: Left: 6 Right: 6

Condition of grout (between base plate and top of foundation):
Left: GOOD Right: FAIR

Comment: GROUT PARTIALLY MISSING ON BACK OF RIGHT BASE

	Left	Right
Anchor nuts w/o washers -	0	0
Anchor bolts w/o threads projecting -	0	0
Anchor bolts requiring tightening -	0	0
Leveling nuts not run up to base plate -	NA	NA
Leveling nuts w/o washers -	NA	NA
Bolt Length (obtained by UT) -	42 in.	42 in.
Possibly Short or Broken Bolts -	0	0

Inspection I (cont)

Base Plate Connection

Weld Profile of base plate to pole connection:

General	Left:	31	Right:	9
Worst	Left:	31	Right:	9

Gusset plates?	Left:	10	Right:	10

Cracks in pole on top of gussets? NO

Welds wrapped? YES

Comments:
Visual indications and testing results.

Visual Indication:	Left: NO	Right: NO
Testing Results:	Left:	Right:

If visual indication or testing results is yes, then see Appendix A.

Upper Connection Inspection II

Structure: 37

Type: 2

1 = Clamp, Tongue and Pin.
2 = Bolted
3 = Welded
4 = Combination
5 = Other

Comment:

Are there welded connections? YES

Visual Indication - Left: NO Right: NO

Testing Results - Left: Right:

If visual indication or testing results is yes, then see Appendix B.

Are there bolted connection? YES
Did flanged plates connected with bolts have a gap?

Left: NO

Right: NO

Which bolts require tightening? Do not tighten.

Left: NONE

Right: NONE

Were threads tapped or nuts on H.S. bolts?

Left: NUTS Right: NUTS

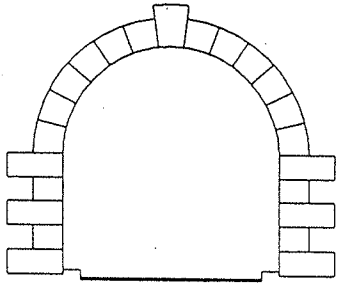
Comment:

VERTICAL AND LATERAL UNDERCLEARANCE REPORT

N./E. BND.		S./W. BND.	
MIN.	17'-11"	MIN.	
MAX.	18'-0"	MAX.	
POSTED		POSTED	

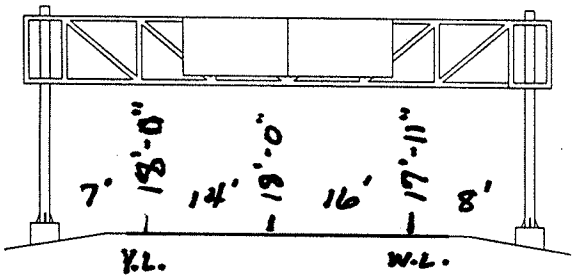
S. H. NO. 25
STR. NO. F-16-RJ
LOG/MILE PT. 209.26 RAMP
DISTRICT NO. 6

TUNNELS

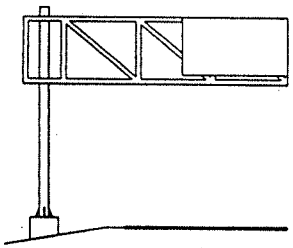


Looking _____

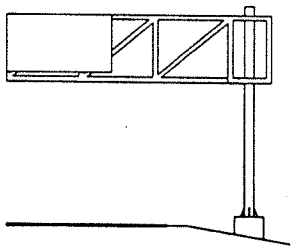
SIGNS



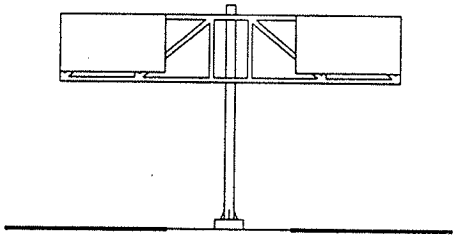
Looking NW



Looking _____

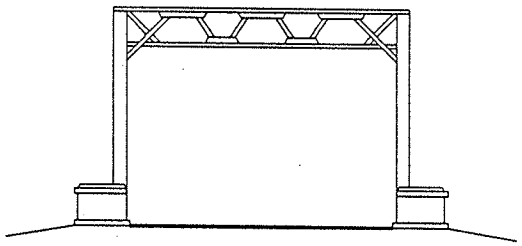


Looking _____



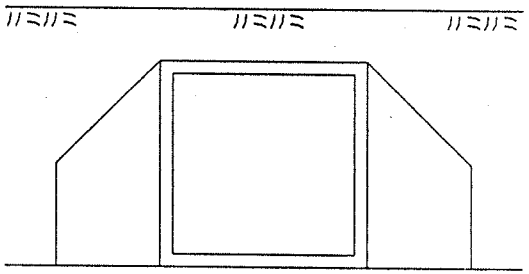
Looking _____

TRUSSES



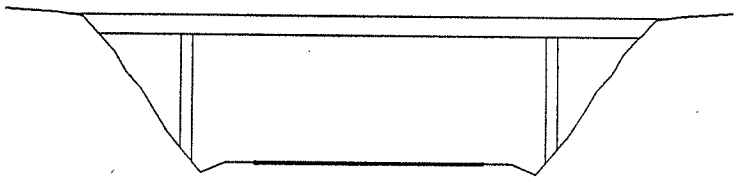
Looking _____

CBC UNDERPASSES



Looking _____

OVERHEAD PIPES



Looking _____

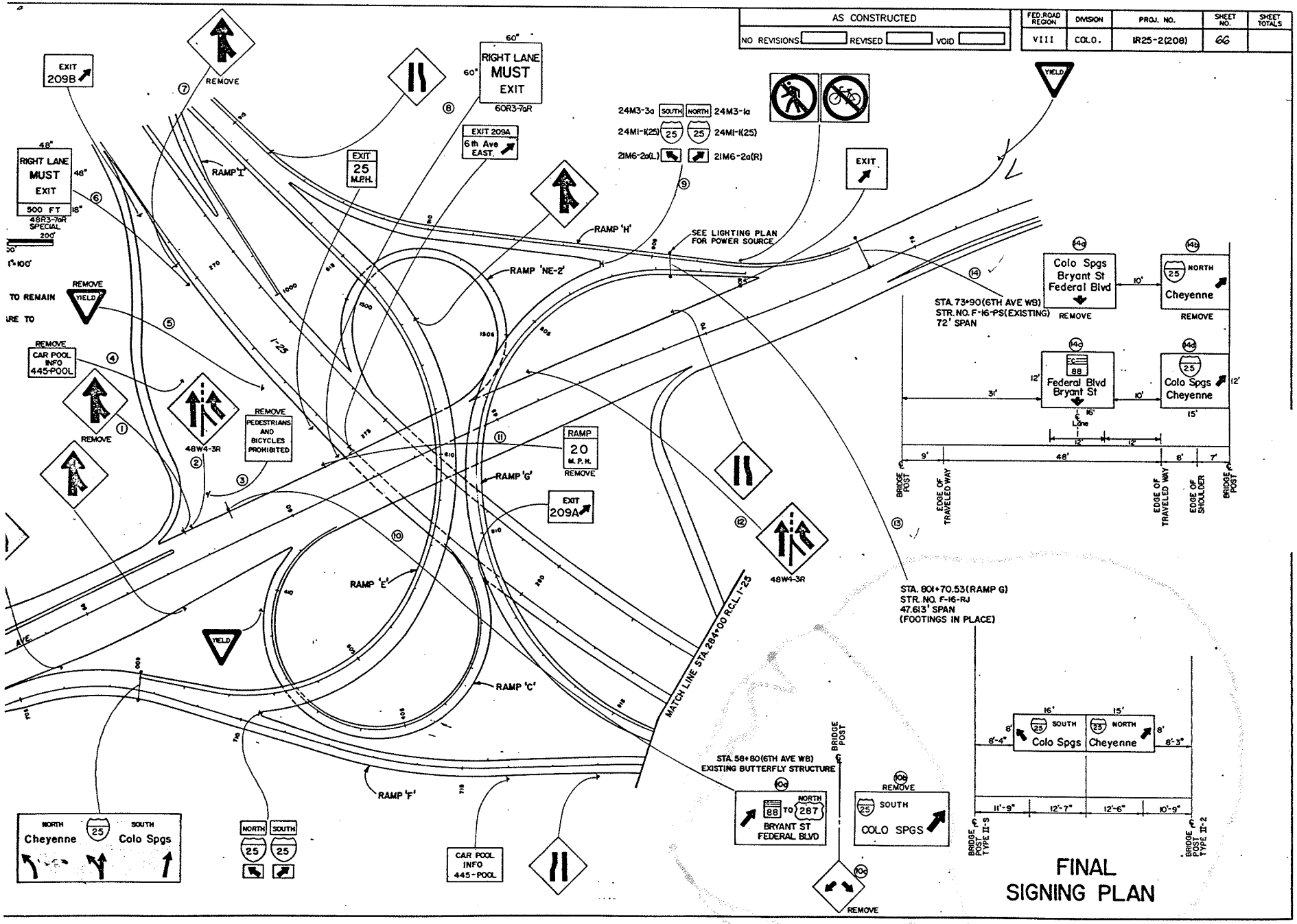
INSPECTORS KGV WS ROD

DATE 12-27-95

STRUCTURE NO. F-16-RJ

AS CONSTRUCTED					
NO REVISIONS	REVISED	VOID			

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VIII	COLO.	IR25-2(208)	66	



FINAL SIGNING PLAN

RJ 3

BRIDGE
WORKSHEET (12-00)26
JUL 1982

Colorado State Highway
Bridge Dept.

SIGNS AND OVERHEAD STRUCTURES

Made AM

Location Sec. 9 Township 4,S Range 68W Photo. Neg. No. Checked Date

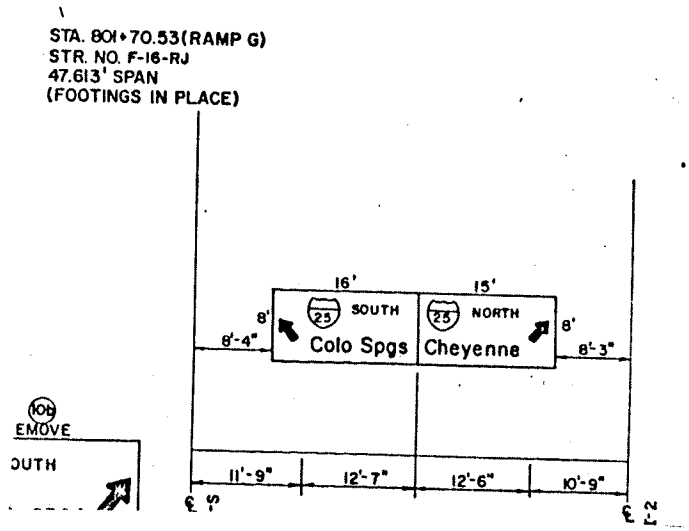
Bridge over RAMP H & G Station 801+70.53 No. and Type of Spans SIGN BRIDGE Total length 47'-7"

Rating Member Rating Unit Stress Design Live Load Required Live Load Posted Live Load Year built

GENERAL	Alinement	Grade	Sight Distance	Width		Vertical Clearance	Skew	Superelevation
Bridge				Between Curbs		Maximum	Rear approach pavement and Rdwy	
Rear approach				Between Rail				
Forward approach						Minimum	Forward approach pavement and Rdwy	
				Sidewalks				

Design by Built by Maintained by Plans IR25-2(208)

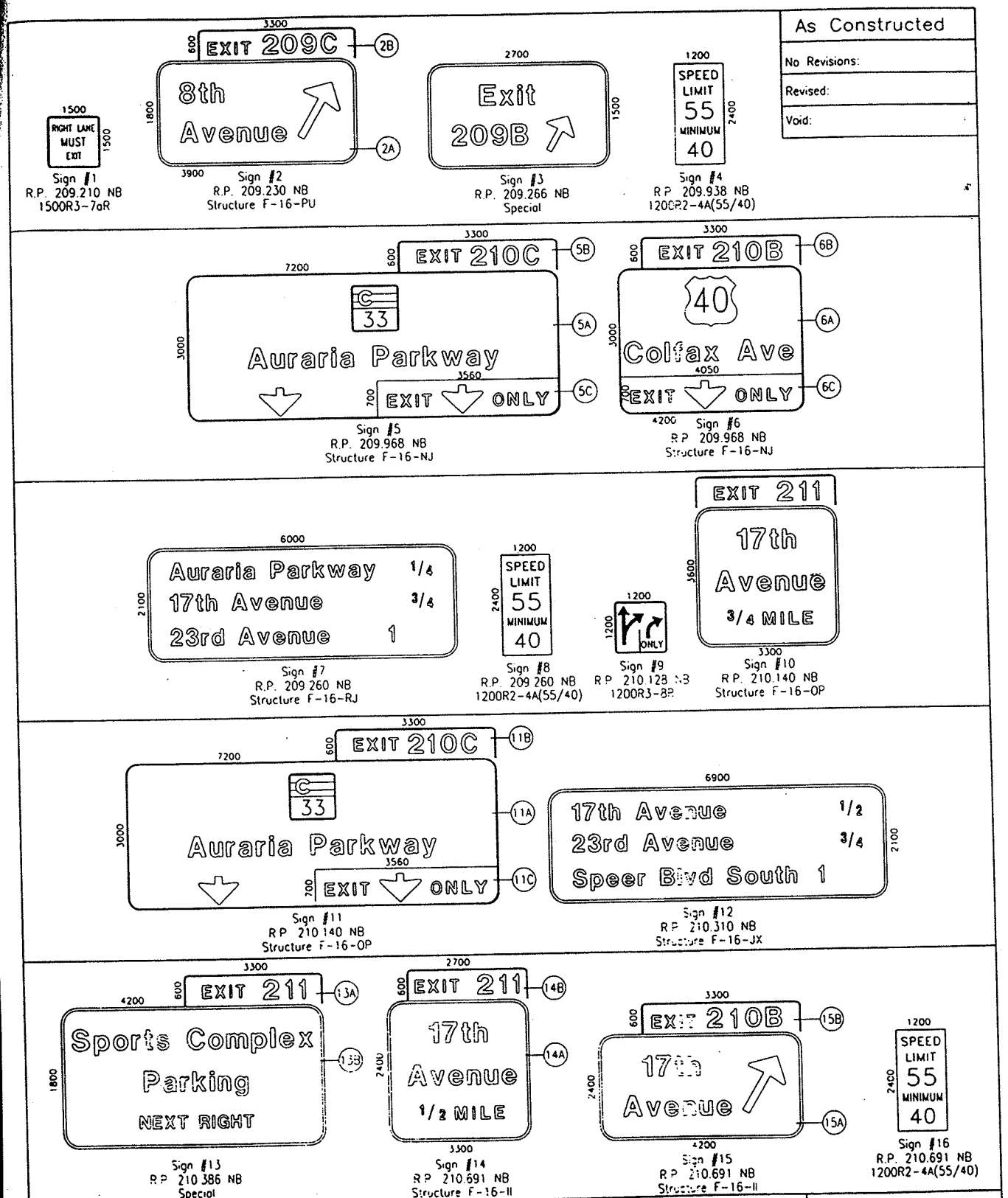
Contract No. Contractor Fabricator Contract price



Traffic Survey Data

STR. NO.	PROJECT	COUNTY	Highway	LOG		H - LOADING - RATED					ROADWAY						CLEARANCE			
						-10	10	12½	15	20	15-18	19-22	23-26	27-30	40	50	12	12-14	14	Open
F-16-RJ	IR25-2 (208)	DENVER	25	A 209.26																

As Constructed
No Revisions:
Revised:
Void:



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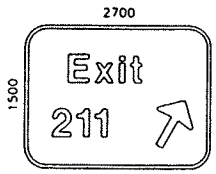
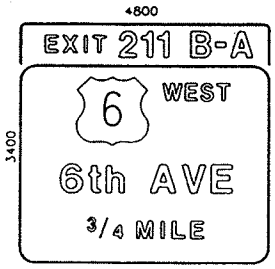
Last Modification Date	11/08/99	Initials	dWb
Full Path:	\\belld\c:\projects\1228acad\		
Drawing File Name:	signs.dwg		
Acad Ver. R14	Scale: None	Units	Metric

Sign Details			
Designer:	dWb	Region:	6
Detailer	dWb	Unit Leader:	GWM
Sheet Subset:	Traffic	Sheet:	6 of 16

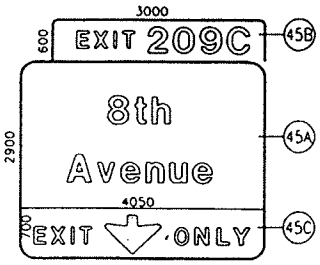
Project No./Code
IM 0252-318
12282
Sheet Number 39



Sign #43
R.P. 211.203 SB
Special

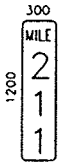


Sign #44
R.P. 209.260 SB
Structure F-16-RJ



Sign #45
R.P. 209.260 SB
Structure F-16-RJ

As Constructed
No Revisions:
Revised:
Void:



Sign #46
R.P. 211.000 SB
300D10-6(211)

Computer File Information				Sign Details				Project No./Code
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Last Modification Date:	11/08/99	Initials:	dWb					
Full Path:	\\belld\c:\projects\1228acad\			Designer: dWb	DOT	Region: 6		12282
Drawing File Name:	signs.dwg			Detailer: dWb		Unit Leader: GWM		
Acad Ver. R14	Scale: None	Units: Metric		Sheet Subset: Traffic		Sheet: 8 of 16		Sheet Number 41

Overhead Sign Structure Inspection

Time 3:30
Weather Clear
Temp. 55

Page 1

Call Dana

GPS Location
Latitude 39 43 31.7
Longitude 105 00 56.3

DEF II

SIGN STRUCTURE INSPECTION REPORT

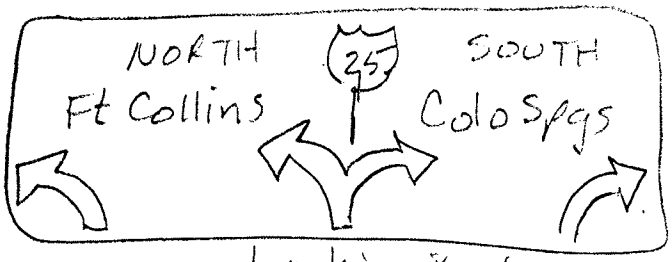
Str. No. F-16-RJ Hwy. No. 25A Ref. Pt. 209.260 Inventory I (NB) (SB) EB WB
COMMENT

Type of Structure
0 BSIGN Butterfly
0 CSIGN Cantilever
X SIGN 1 Spls Sign Bridge
0 DSIGN __ Spls SIGN+CSIGN

COMMENT
Sign location:

RAMP EBND 6TH AVE TO SBND/NBND I25

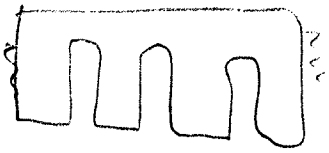
Sketch of sign legend:



Looking Back

Maintenance Recommendations
0 Paint base plate and lower portions of the pole.
0 Paint entire structure.
0 Repair cracks in _____

X Repair - Shim gaps on RJ pole seats and retighten bolts.



Inspector Rick Heinzer Date 7-1-99

Team Leader Rabe

Overhead Sign Structure Inspection

Structural Data

Inventory II

Material

X Steel O Aluminum O Other:_____

Coating Condition

X Good O Fair O Poor

COMMENT

Painted Black Color

Estimated span, cantilever, or arm length _____ m (±2 m)

Chord Type

Inventory III

O Single Arm O Dbl Arm - Untrussed X Dbl Arm - Trussed

O Tri-Cord O Box Truss O N/A

COMMENT

Pole Type (End View)

O Single, uniform section X Single, tapered section

COMMENT

Circumference at Base LT 63 mm RT 63 mm

Foundation Type

O Spread Ftg O Caisson O Piling O Unknown

COMMENT Attached to bridge

Attached to bridge or retaining wall? Complete Inspection a.

Inspection a

O Attached to bridge girder

X Attached to bridge rail/deck

O Attached to bridge girder and bridge rail/deck

O Attached to retaining wall with or without guardrail

O Attached to bridge pier

COMMENT

Condition of Sign Structural Member Attachment to retaining wall

X Good O Fair O Poor

COMMENT

Describe any deficiencies

Inspection I

General Alignment
X Good O Fair O Poor
COMMENT

Is there a noticeable tilt to the pole? *Measurements are not necessary if there is no noticeable tilt.*

LEFT	RIGHT
X N/A NO	X N/A NO
O Toward traffic	O Toward traffic
O Away from traffic	O Away from traffic
____ mm*	____ mm*
O Ref. Pt. AH	O Ref. Pt. AH
O Ref. Pt. BK	O Ref. Pt. BK
____ mm*	____ mm*

* Measurements taken 1.2 m (4′) above the base plate with a 610 mm (2′) level.
COMMENT

Overall Condition of Foundation
X Good O Fair O Poor O Critical O Failed
COMMENT

Connection at Base Plate

Number of anchor bolts	LT 6	RT 6
Condition of grout (between base plate and top of foundation) O Good O Fair O Poor O N/A		
COMMENT		
Anchor nuts w/o washers	LT 0	RT 0
Anchor bolts w/o threads projecting	LT 0	RT 0
Anchor bolts requiring tightening	LT 0	RT 1
Leveling nuts not run up to base plate	LT NA	RT NA
Leveling nuts w/o washers	LT NA	RT NA
Bolt Length	LT 42	RT 42
Possibly short or broken bolts.	LT 0	RT 0