

FED. ROAD REGION VIII  
 DIVISION COLO.  
 PROJ. NO. CX-CXBRF 03-0034-21  
 SHEET NO. 4-2A

AS CONSTRUCTED  
 NO REVISIONS  
 REVISED 10-1-92  
 VOID

SW 1/4 Sec. 13

SE 1/4 Sec. 14

NE 1/4 Sec. 23

NW 1/4 Sec. 24

35th Ave.

1163+ LT. 18"x26" CMP  
 Crossdrain

1160

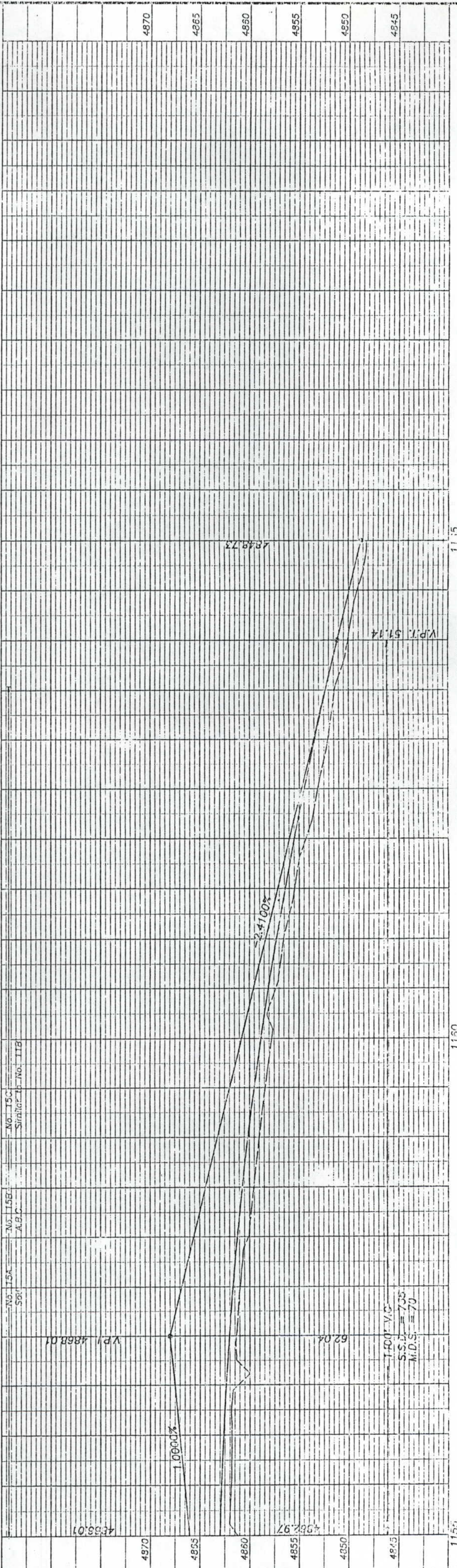
1155

S. 89°14'14.4" E.



NE Cor. Sec. 23  
 N 366360.3530 E 2213256.3770  
 Control Moun.

Control Moun.



No. 155A Spv  
 No. 155B A.B.C.  
 No. 155C Similar to No. 11B

V.P.I. 4868.01

62.04

T.P.O. V.C.  
 S.S.D. = 735  
 M.I.S. = 70

V.P.I. 51.14

4848.73

# STATE DEPARTMENT OF HIGHWAYS

## DIVISION OF HIGHWAYS - STATE OF COLORADO

P.E. for Str. C-17-EX  
under proj. no. CXBRF 03-0034-16

FED. ROAD REGION	DIVISION	PROJECT NO.	SHEET NO.
VIII	COLO.	CX-CXBRF 03-0034-21	1
AS CONSTRUCTED			
NO REVISIONS	REVISED	10-1-92	VOID

### PLAN AND PROFILE OF PROPOSED AS CONSTRUCTED COLORADO PROJECT NO. CX-CXBRF 03-0034-21 STATE HIGHWAY NO. 34 WELD COUNTY

AS CONSTRUCTED PLANS  
RETURN TO DIST. 4 DESIGN

REVISIONS			
R-1	12-6-92	1, 4	GRR
R-2	12-11-91	1, 16, 17, 18	GRR

SCALES OF ORIGINAL DRAWINGS

ON PLAN      1" = 50'  
ON PROFILE   1" = 50' HORIZONTAL  
ON PROFILE   1" = 5' VERTICAL

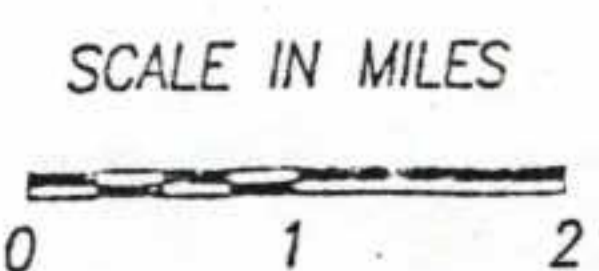
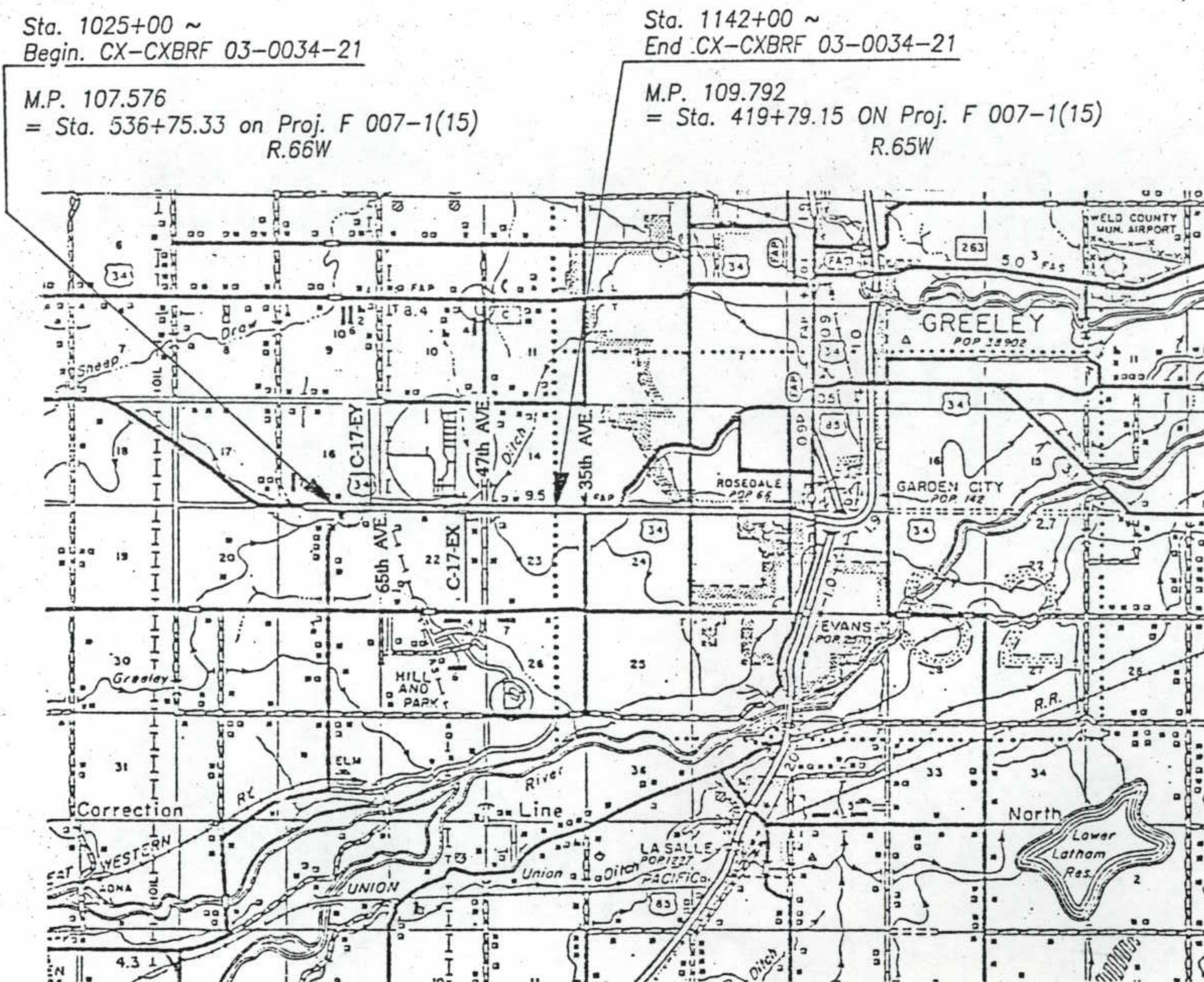
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

SHEET NO.

- 1 TITLE SHEET
  - 2 STANDARD PLANS LIST
  - 3-4 TYPICAL SECTIONS, GENERAL NOTES
  - 5-8 SUMMARY OF APPROXIMATE QUANTITIES
  - 9-10 STRUCTURE QUANTITIES
  - 11 REMOVAL OF ASPHALT MAT, TABULATION OF CONCRETE PAVEMENT, SURFACING PLAN, STABILIZATION PLAN
  - 12 TABULATION OF CURB & GUTTER, DETAILS OF CURB (MEDIAN) (SPECIAL), DETAILS OF MEDIAN COVER MATERIAL, MEDIAN COVER MATERIAL (PATTERNED CONCRETE)
  - 13 TABULATION OF DELINEATORS, REMOVAL OF GUARD RAIL, TABULATION OF FENCE, SUMMARY OF EARTHWORK QUANTITIES
  - 14 DETAILS OF PLUG INLET, DETAILS OF HSP (PATCHING), DETAILS OF W. APPROACH TO PROJECT, ADJUST MANHOLE & VALVE BOX, DETAILS OF TYPICAL MEDIAN OPENINGS, DETAILS OF MEDIAN OPENING OVERLAY
  - 15 TEMPORARY SAND BARREL IMPACT ATTENUATORS
  - 16 TYPE - ENERGITE AND FITCH
  - 17 CONCRETE PAVEMENT JOINTS
  - 18 CONCRETE PAVEMENT JOINTS, 65TH. AVE.
  - 19 CONCRETE PAVEMENT JOINTS, 47TH. AVE.
  - 20-21 DETAIL OF RUMBLE STRIPS (SHOULDER GROOVING), PIPE UNDERDRAIN, SUBSURFACE DRAIN OUTLET END TREATMENT
  - 22 CONSTRUCTION PHASING
  - 23-28 DETAILS OF DETOUR CROSSOVERS
  - 29-34 BRIDGE PLANS, STR. C-17-EX
  - 35-44 PLAN & PROFILE SHEETS
  - 45 CONSTRUCTION PHASE TEMPORARY SIGNAL PLAN, U.S. 34 BYPASS & 47TH. AVE.
  - 46 TRAFFIC SIGNAL PLAN, U.S. 34 BYPASS & 65TH. AVE., GREELEY
  - 47 TRAFFIC SIGNAL PLAN, U.S. 34 BYPASS & 47TH. AVE., GREELEY
  - 48 SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES
  - 49-52 TABULATION OF SIGNS
  - 53 CLASS III SIGN PANEL CROSS SECTIONS
  - 54-55 TABULATION OF PAVEMENT MARKINGS
  - 56-61 PERMANENT SIGNING AND STRIPING
  - 62-63 FLASHING BEACON AND SIGN INSTALLATION
  - 64-66 TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS
  - 67-69 CLASS III SIGNS SHEET ALUMINUM PANELS
  - 70-71 BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS
  - 72 DETAILS OF TYPICAL POWER CONNECTIONS
  - 73 CONTROL AND MONUMENTATION SHEET
  - 74-75 SURVEY MONUMENTS
- NEW & REVISED STANDARDS
- M-203-11 SUPERELEVATION OF CURVES-DIVIDED HIGHWAYS (AUG. 16, 1984)
  - SHOULDER PIVOT (1 SHEET)
  - M-612-12 GUARD RAIL-TYPE 4 CONCRETE BARRIER (9 SHEETS) (FEB. 18, 1983)
  - M-620-2 FIELD LABORATORY - CLASS 2 (1 SHEET) (MAY 25, 1988)

TABULATION OF LENGTH & DESIGN DATA

STATION	ROADWAY Lin. Ft.	MAJOR STR. Lin. Ft.						
Sta. 1025+00 ~ Begin CX-CXBRF 03-0034-21 M.P. 107.576	2,030.88							
Sta. 1045+30.88 Major Str. C-17-EY Sta. 1045+57.12	4,496.30	26.24						
Sta. 1090+53.42 Major Str. C-17-EX Sta. 1090+82.58	5,117.42	29.16						
Sta. 1142+00 ~ End CX-CXBRF 03-0034-21 M.P. 109.792								
<b>TOTALS</b>	11,644.60	55.40						
<b>SUMMARY</b>	Lin. Ft.	Miles						
Roadway Net Length	11,644.60	2.2054						
Major Structures	55.40	0.0105						
Project Gross Length	11,700.00	2.2159						
<b>DESIGN DATA</b>								
MAXIMUM DEGREE OF CURVE	1° 00'							
MAXIMUM GRADE	1.6932%							
MINIMUM S.S.D. HORIZONTAL	>1000							
MINIMUM S.S.D. VERTICAL	680'							
MAXIMUM DESIGN SPEED	60 M.P.H.							
2011 DESIGN TRAFFIC VOLUME	<table style="border: none;"> <tr> <td>DHV</td> <td>3035</td> </tr> <tr> <td>ADT</td> <td>27590</td> </tr> <tr> <td>% TRUCKS</td> <td>4%</td> </tr> </table>		DHV	3035	ADT	27590	% TRUCKS	4%
DHV	3035							
ADT	27590							
% TRUCKS	4%							



T.5N

AS CONSTRUCTED INFORMATION

Contractor	Cottler-Rank Construction Co.		
Project Engineer	Rick Gabel		
Project Started	1-21-92		
Project Completed	10-1-92		
A: Constructed Plans Approved	<i>[Signature]</i>	Date	1-5-92
	Resident Engr.	Date	

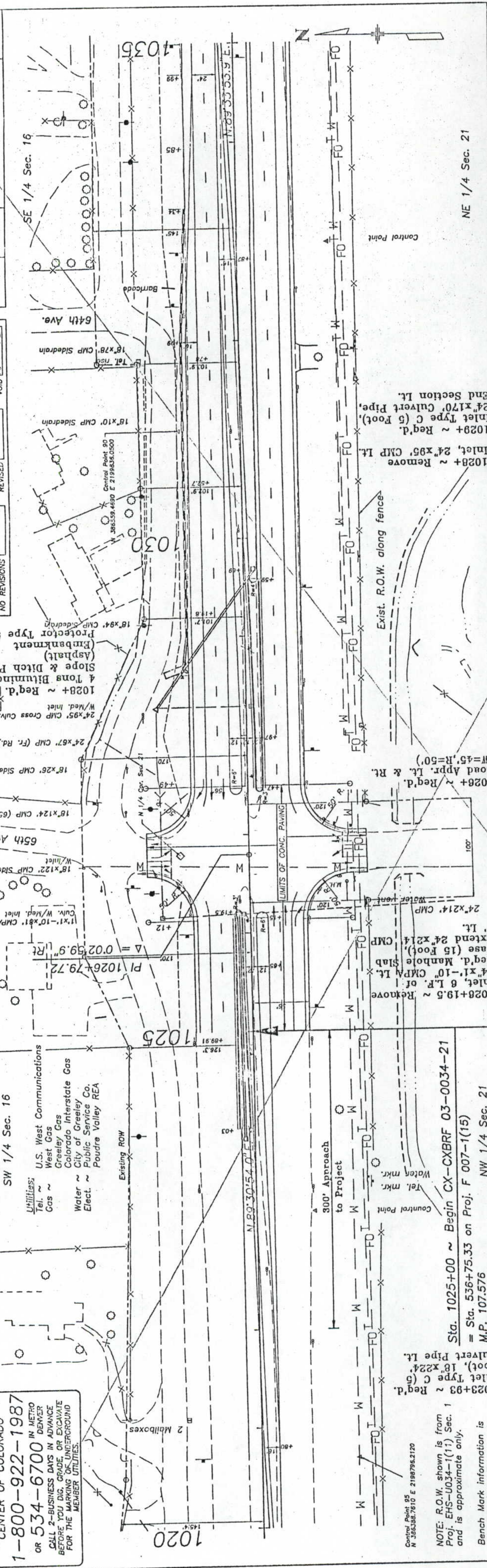
90444      G.R.R./DIST. 4

11/20/91 11:02:48 /PROJECT1/90444/D4PREDU1/ACAD/ title 90444 h160

**CALL UTILITY NOTIFICATION CENTER OF COLORADO**  
 1-800-922-1987  
 OR 534-6700 IN METRO DENVER  
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

SW 1/4 Sec. 16  
 Utilities:  
 Tel. ~ U.S. West Communications  
 Gas ~ West Gas  
 Greely Gas  
 Colorado Interstate Gas  
 City of Greeley  
 Public Service Co.  
 Poudre Valley REA  
 Water ~  
 Elect. ~

FED. ROAD REGION	DIVISION	PRJ. NO.	SHEET NO.
VIII	COLO.	CX-CXBRF 03-0034-21	35



Control Point 95  
 N 386338.7610 E 2198795.2120

NOTE: R.O.W. shown is from Proj. EHS-U034-1(11) Sec. 1 and is approximate only.

Bench Mark information is available from the Engineer.

Sta. 1025+00 ~ Begin CX-CXBRF 03-0034-21  
 = Sta. 536+75.33 on Proj. F 007-1(15)  
 M.P. 107.576

NW 1/4 Sec. 21

1028+ ~ Remove Inlet, 24"x95' CMP Lt.  
 1028+ ~ Req'd. Inlet Type C (6 Foot), 24"x170' Culvert Pipe, End Section Lt.

1026+ ~ Req'd. Road Appr. Lt. & Rt. (W=45', R=50')

1026+19.5 ~ Remove Inlet, 6 L.F. of 24"x1'-10" CMP Lt. Req'd. Manhole Slab Base (15 Foot), CMP Extend 24"x214' 6' Lt.

4905	4900	4895	4890	1020
4905	4900	4895	4890	1025
4905	4900	4895	4890	1030
4905	4900	4895	4890	1035

No. 34  
 H.B.P.

No. 35  
 A.E.C.

No. 36  
 A.E.C.

No. 37  
 A.E.C.

No. 38  
 A.E.C.

No. 39  
 A.E.C.

No. 40  
 A.E.C.

No. 41  
 A.E.C.

No. 42  
 A.E.C.

No. 43  
 A.E.C.

No. 44  
 A.E.C.

No. 45  
 A.E.C.

No. 46  
 A.E.C.

No. 47  
 A.E.C.

No. 48  
 A.E.C.

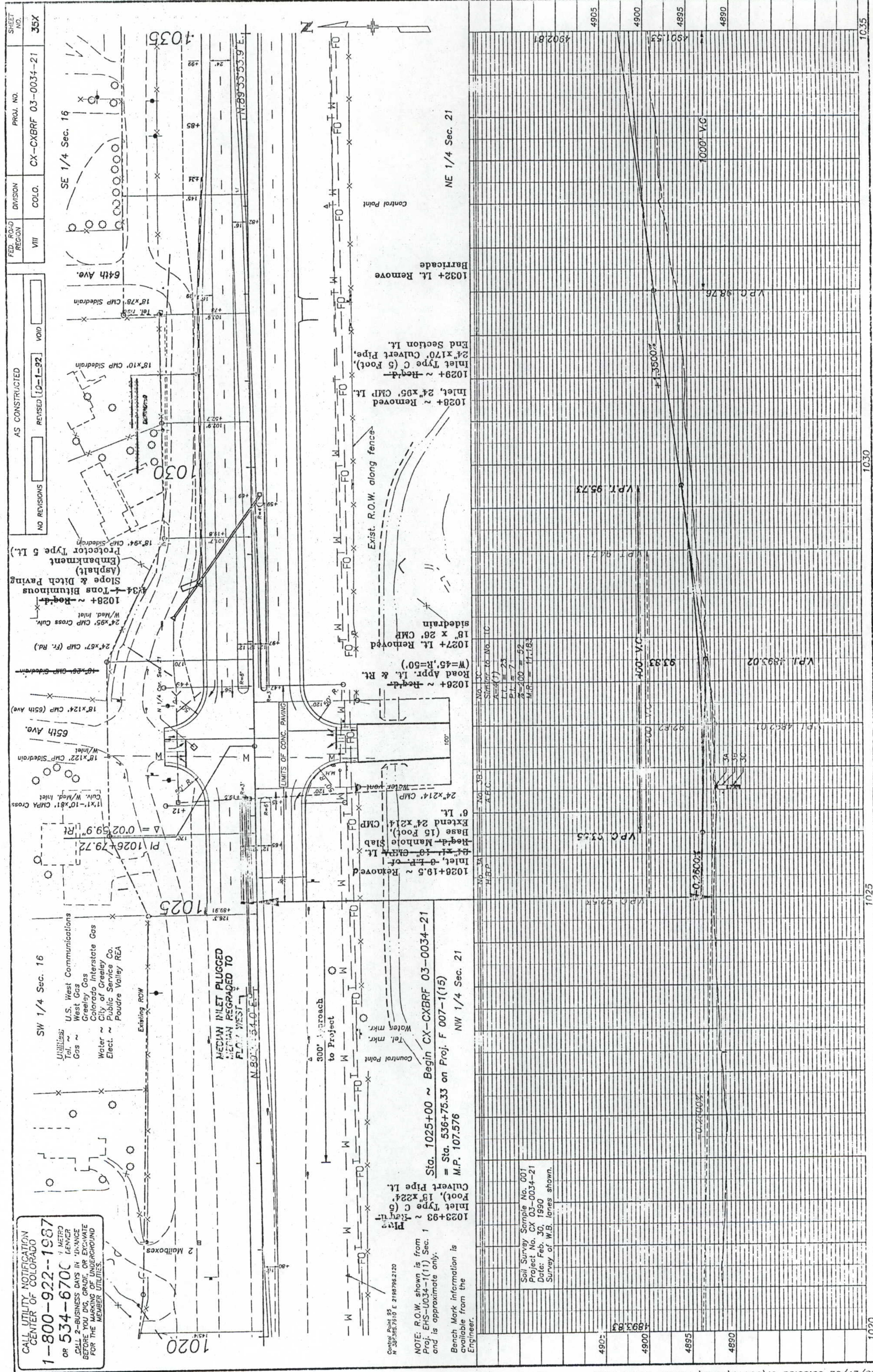
No. 49  
 A.E.C.

No. 50  
 A.E.C.

Soil Survey Sample No. 001  
 Project No. CX 03-0034-21  
 Date: Feb. 30, 1990  
 Survey of W.B. lanes shown.

CALL UTILITY NOTIFICATION  
CENTER OF COLORADO  
1-800-922-1987  
OR 534-6700  
1 METRO  
1 DENVER  
CALL 2-BUSINESS DAYS IN ADVANCE  
BEFORE YOU DIG, GRADE, OR EXCAVATE  
FOR THE MARKING OF UNDERGROUND  
MEMBER UTILITIES.

Utilities:  
Tel. ~ U.S. West Communications  
Gas ~ West Gas  
Greely Gas  
Colorado Interstate Gas  
Water ~ City of Greeley  
Elect. ~ Public Service Co.  
Poudre Valley REA



Control Point 95  
N 292.955.7510 E 2198796.2120

NOTE: R.O.W. shown is from  
Proj. EHS-U034-1(11) Sec. 1  
and is approximate only.

Bench Mark information is  
available from the  
Engineer.

1023+93 ~ Right  
Inlet Type C (6  
Foot) 18' x 22.4'  
Culvert Pipe Lt.

Sta. 1025+00 ~ Begin CX-CXBRF 03-0034-21  
= Sta. 536+75.33 on Proj. F 007-1(15)  
M.P. 107.576

NW 1/4 Sec. 21

MEDIAN INLET PLUGGED TO  
MEDIAN REGRADED TO  
FLOW WEST

Soil Survey Sample No. 001  
Project No. CX 03-0034-21  
Date: Feb. 30, 1990  
Survey of W.B. lanes shown.

1026+19.5 ~ Removed  
Inlet & R.P. of  
Right Manhole Slab  
Base (15 Foot)  
Extend 24' x 21.4'  
CMP  
6' Lt.

1027+ Lt. Removed  
18' x 26' CMP  
Siderain

1028+ ~ Removed  
Inlet, 24' x 24' CMP Lt.

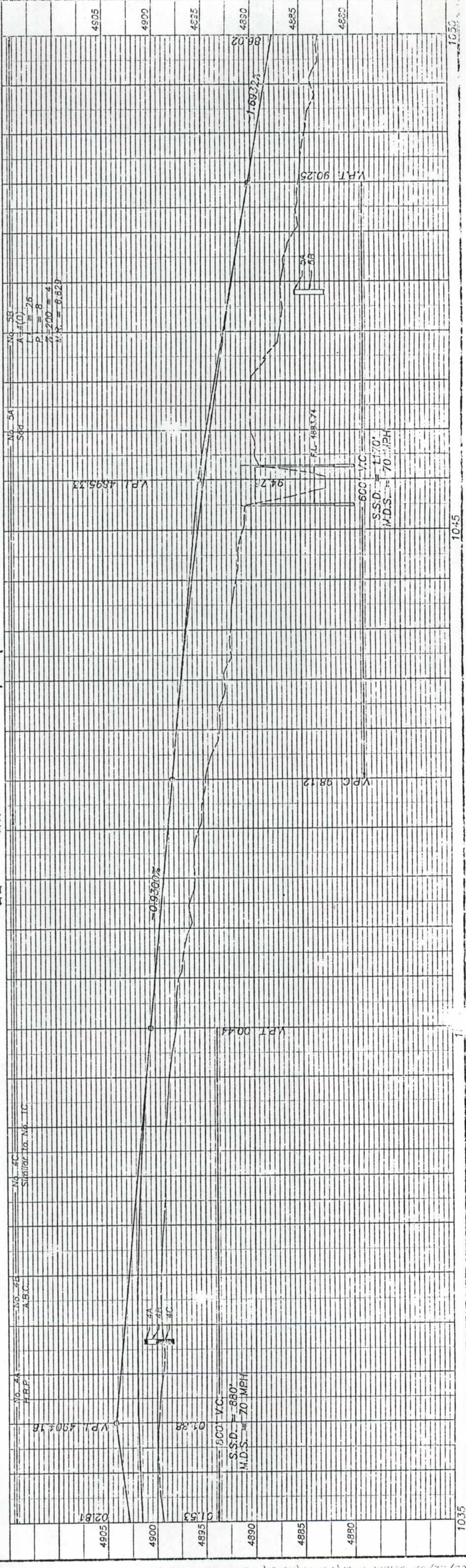
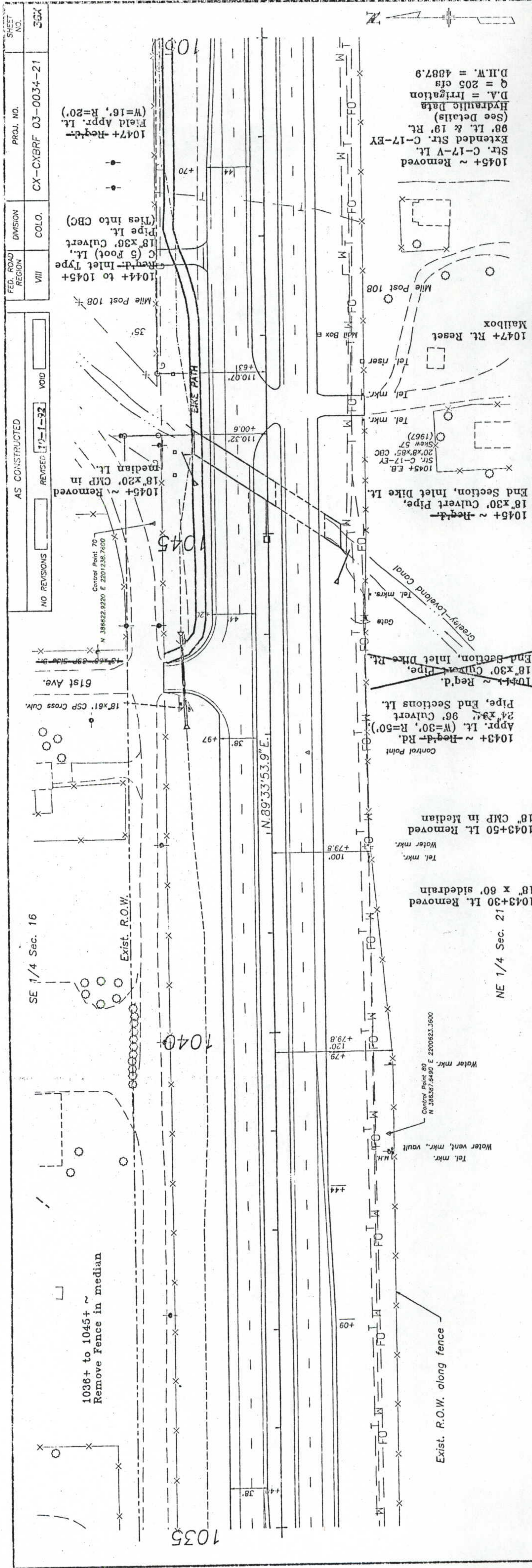
1029+ ~ Right  
Inlet Type C (5 Foot)  
24' x 17.0' Culvert Pipe,  
End Section Lt.

1032+ Lt. Remove  
Barricade

Control Point

AS CONSTRUCTED  
NO REVISIONS  
REVISED 10-1-92  
VOID





AS CONSTRUCTED  
 NO REVISIONS  
 REVISED 11-1-92  
 VOID

FED. ROAD REGION VIII  
 DIVISION COLO.  
 PROJ. NO. CX-CXBRF 03-0034-21  
 SHEET NO. 36X

SE 1/4 Sec. 16

NE 1/4 Sec. 21

1038+ to 1045+ ~  
 Remove Fence in median

1043+30 Lt. Removed  
 18' x 60' side drain

1043+50 Lt. Removed  
 18' CMP in Median

1043+ ~ Reg'd. Rd.  
 Appr. Lt. (W=30', R=50')  
 24' x 30' 96' Culvert  
 Pipe, End Sections Lt.

1044+ ~ Reg'd.  
 18' x 30' Culvert Pipe,  
 End Section, Inlet Pipe, Lt.

1045+ ~ Reg'd.  
 18' x 30' Culvert Pipe,  
 End Section, Inlet Pipe, Lt.

1045+ E.B.  
 Str. C-17-EX  
 20' x 85' CBC  
 (Slew 57  
 1967)

1047+ Rt. Reset  
 Mailbox

1044+ to 1045+  
 Reg'd. Inlet Type  
 C (5 Root) Lt.  
 18' x 36' Culvert  
 Pipe Lt.  
 (Ties into CBC)

1045+ ~ Removed  
 Str. C-17-V Lt.  
 Extended Str. C-17-EX  
 98' Lt. & 19' Rt.  
 Hydraulic Data  
 D.A. = Irrigation  
 Q = 205 cfs  
 D.M.W. = 4887.9

1045+ ~ Removed  
 18' x 20' CMP in  
 Median Lt.

1044+ to 1045+  
 Reg'd. Inlet Type  
 C (5 Root) Lt.  
 18' x 36' Culvert  
 Pipe Lt.  
 (Ties into CBC)

1047+ ~ Reg'd.  
 Field Appr. Lt.  
 (W=16', R=20')

1045+ ~ Removed  
 Str. C-17-V Lt.  
 Extended Str. C-17-EX  
 98' Lt. & 19' Rt.  
 Hydraulic Data  
 D.A. = Irrigation  
 Q = 205 cfs  
 D.M.W. = 4887.9

1035  
 1040  
 1045  
 1050

4890  
 4885  
 4880  
 4895  
 4900  
 4905

1035

1045

1050





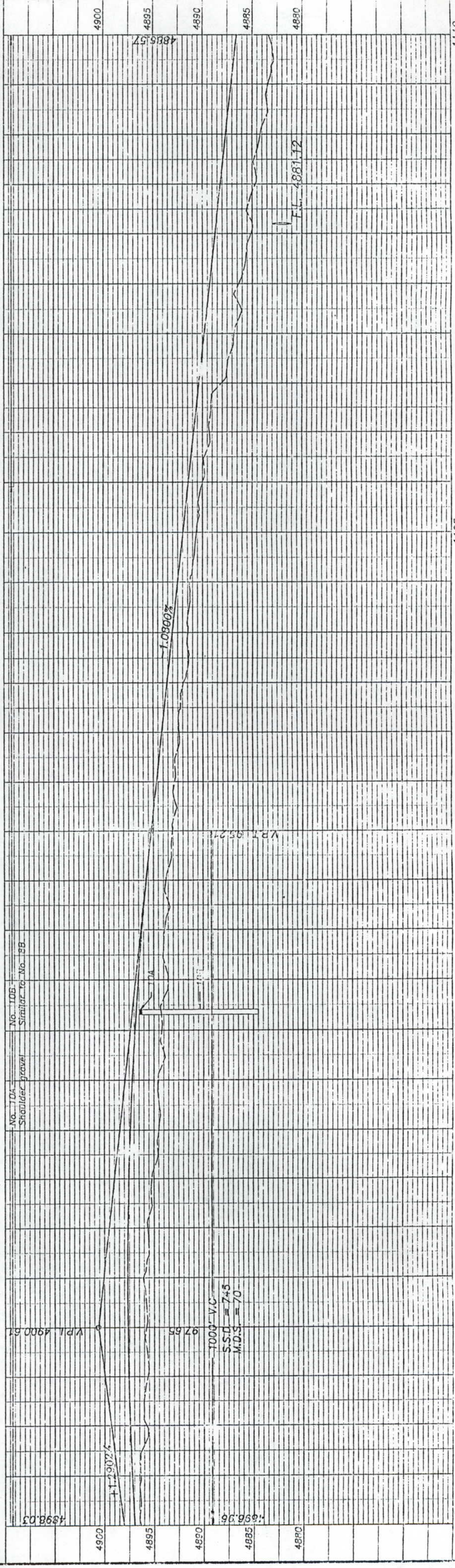
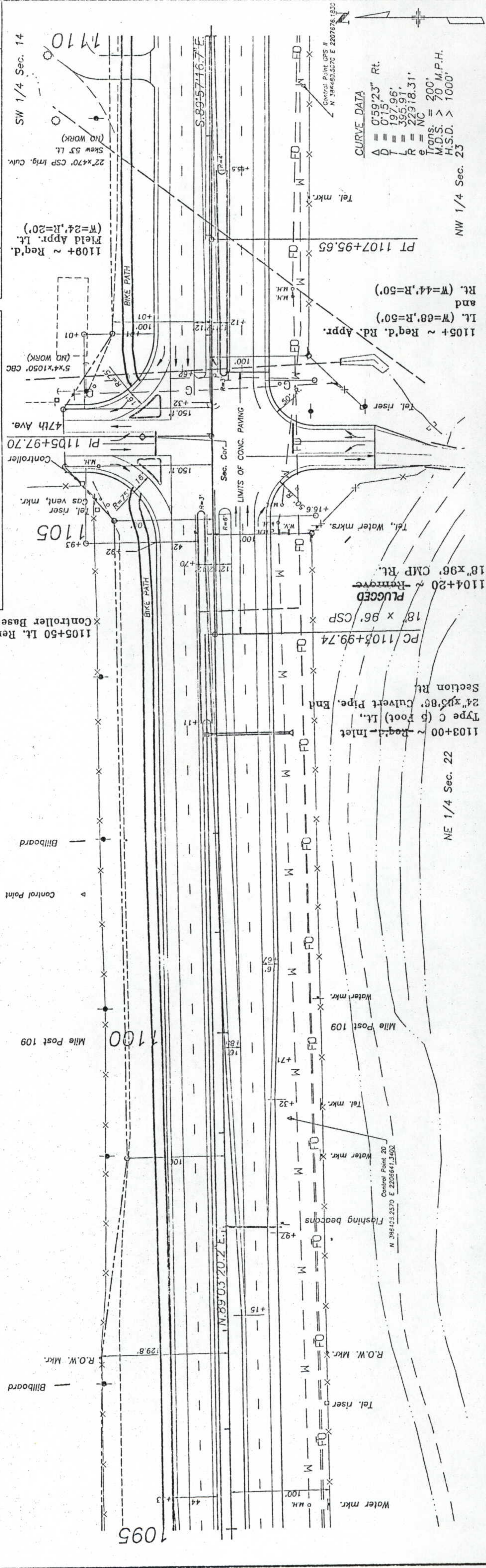




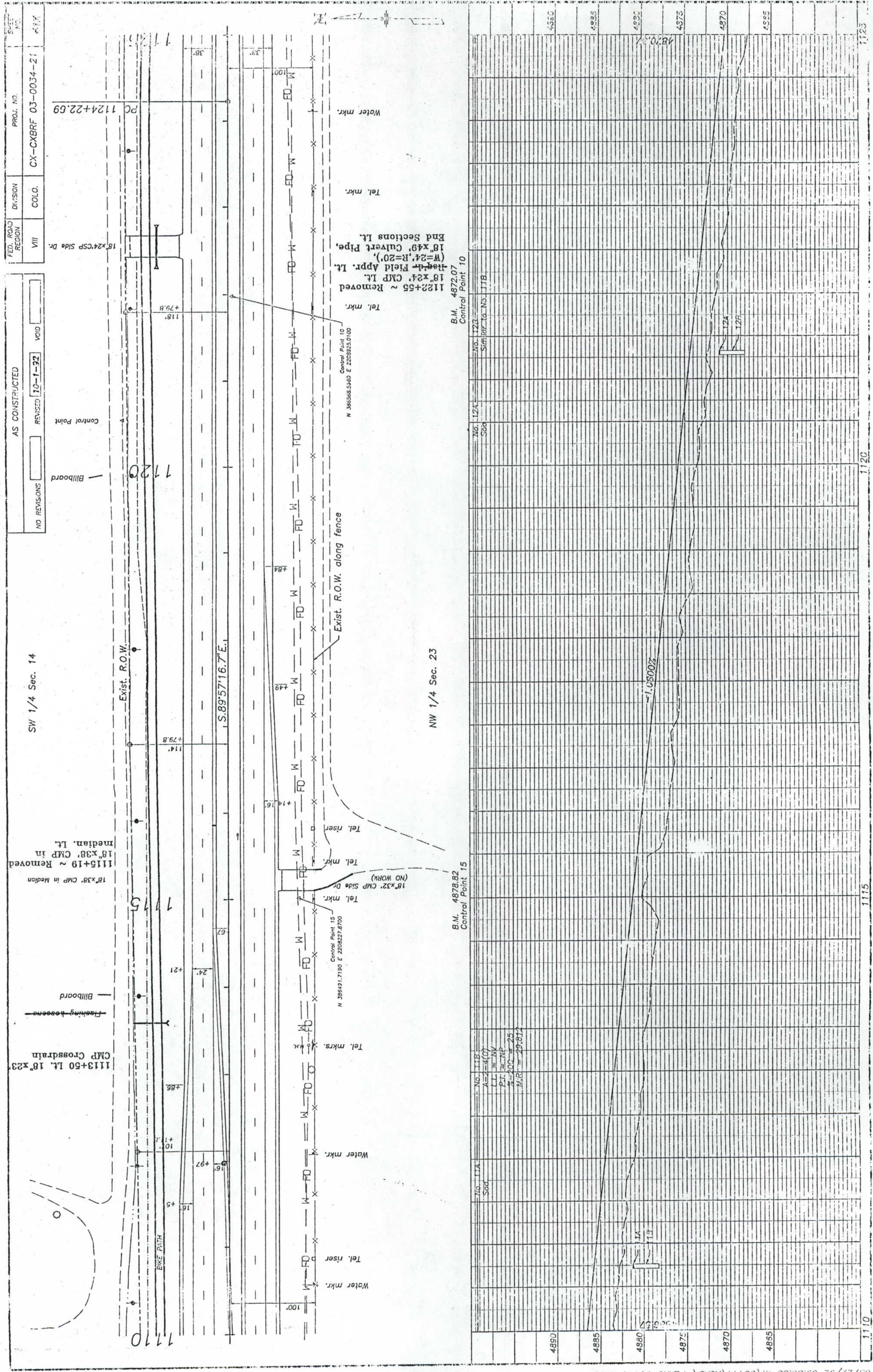












FED. ROAD REGION VIII  
 DIVISION COLO.  
 PROJ. NO. CX-CXBRF 03-0034-21  
 SHEET NO. 117

AS CONSTRUCTED  
 NO REVISIONS  
 REVISED 10-1-92  
 VOID

SW 1/4 Sec. 14

1113+50 Lt. 18"x23" CMP Crossrain  
 Billboard  
 Fishing beacons  
 1115+19 ~ Removed 18"x38" CMP in Median  
 1115+19 ~ Removed 18"x38" CMP in median. Lt.

Exist. R.O.W.

S.89°57'16.7"E.

NW 1/4 Sec. 23

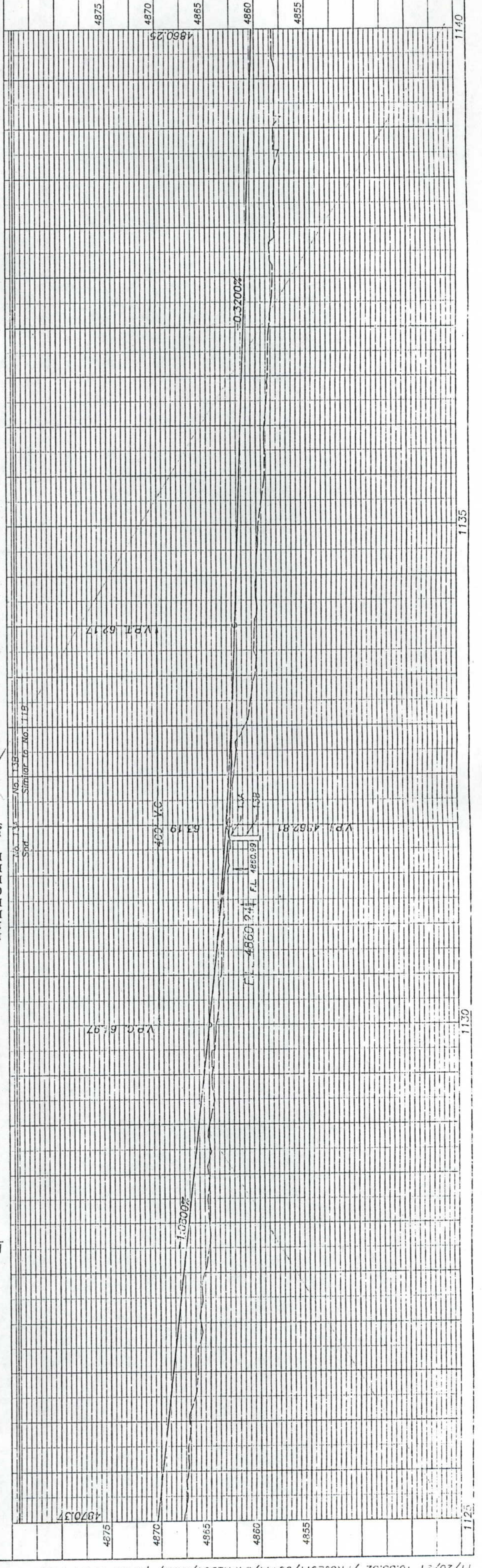
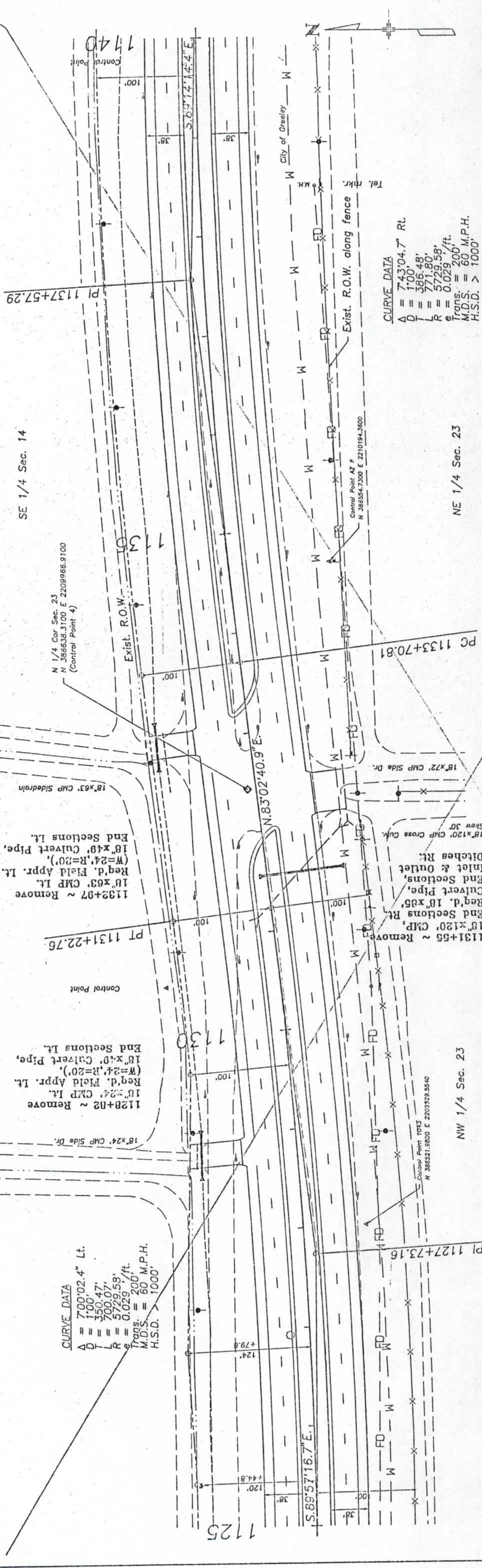
Water mkr.  
 Tel. riser  
 Tel. mkr.  
 18"x32" CMP Side Dr. (NO WORK)  
 Tel. mkr.  
 Control Point 15  
 N 356491.7190 E 2208227.8700  
 18"x24" CMP Lt. Removed  
 18"x49" Culvert Pipe, (W=24", R=20"), 18'-4" Field Appr. Lt.  
 1122+55 ~ Removed 18"x24" CMP Lt.  
 Tel. mkr.  
 Control Point 10  
 N 346568.5480 E 2208253.0100  
 End Sections Lt.

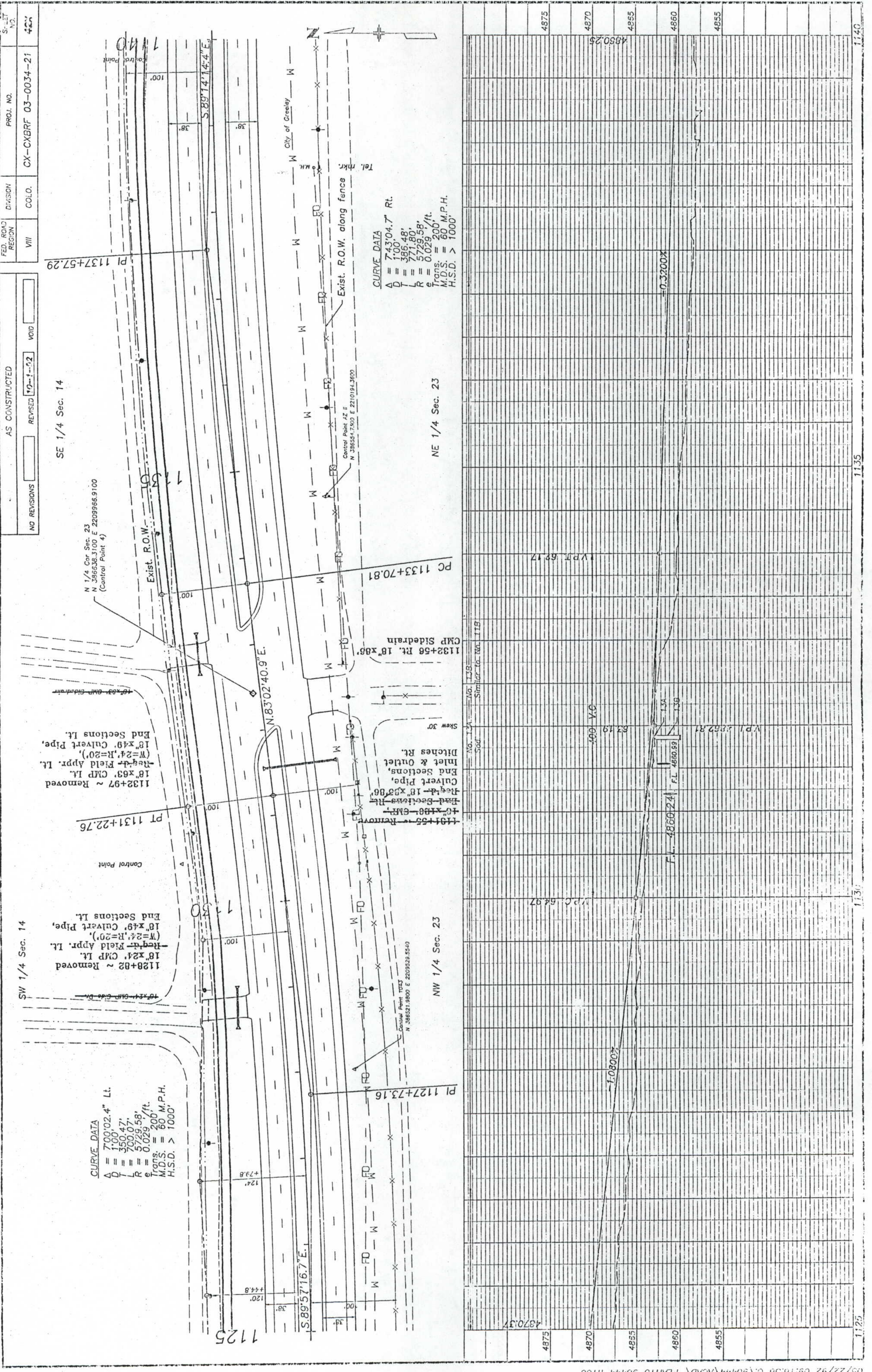
B.M. 4878.82  
 Control Point 15

B.M. 4872.07  
 Control Point 10

4890	4885	4880	4875	4870	4865
1110	1115	1120	1125		
No. 117A Sod	No. 117B Sod	No. 121A Sod	No. 121B Sod	No. 122A Sod	No. 122B Sod
No. 117B A=2-4(0) LL=NP PI=NP %P=25 M.R.=29.811					

NO REVISIONS	AS CONSTRUCTED	FED. ROAD REGION VIII	DIVISION COLO.	PROJ. NO. CX-CXBRF 03-0034-21	SHEET NO. 42
REVISED					
VOID					





AS CONSTRUCTED  
 NO REVISIONS  
 REVISED 10-1-92  
 VOID

FED. ROAD REGION VIII  
 DIVISION COLO.  
 PROJ. NO. CX-CXBRF 03-0034-21  
 SHEET NO. 42

**CURVE DATA**  
 $\Delta = 700'02.4''$  Lt.  
 $D = 100'02.4''$   
 $L = 350.47'$   
 $R = 500.07'$   
 $e = 5'29.58''$ /ft.  
 Trans. = 200'  
 M.D.S. = 60 M.P.H.  
 H.S.D. > 1000'

**CURVE DATA**  
 $\Delta = 743'04.7''$  Rt.  
 $D = 100'04.7''$   
 $L = 386.48'$   
 $R = 771.80'$   
 $e = 5'29.58''$ /ft.  
 Trans. = 200'  
 M.D.S. = 60 M.P.H.  
 H.S.D. > 1000'

**CURVE DATA**  
 $\Delta = 743'04.7''$  Rt.  
 $D = 100'04.7''$   
 $L = 386.48'$   
 $R = 771.80'$   
 $e = 5'29.58''$ /ft.  
 Trans. = 200'  
 M.D.S. = 60 M.P.H.  
 H.S.D. > 1000'

**CURVE DATA**  
 $\Delta = 743'04.7''$  Rt.  
 $D = 100'04.7''$   
 $L = 386.48'$   
 $R = 771.80'$   
 $e = 5'29.58''$ /ft.  
 Trans. = 200'  
 M.D.S. = 60 M.P.H.  
 H.S.D. > 1000'

**CURVE DATA**  
 $\Delta = 743'04.7''$  Rt.  
 $D = 100'04.7''$   
 $L = 386.48'$   
 $R = 771.80'$   
 $e = 5'29.58''$ /ft.  
 Trans. = 200'  
 M.D.S. = 60 M.P.H.  
 H.S.D. > 1000'

**CURVE DATA**  
 $\Delta = 743'04.7''$  Rt.  
 $D = 100'04.7''$   
 $L = 386.48'$   
 $R = 771.80'$   
 $e = 5'29.58''$ /ft.  
 Trans. = 200'  
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 H.S.D. > 1000'

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 H.S.D. > 1000'

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 H.S.D. > 1000'

1125 1130 1135 1140

4875 4870 4865 4860 4855

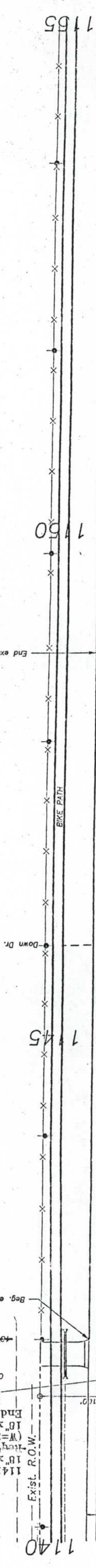


FED. ROAD REGION VIII  
 DIVISION C.C.L.O.  
 PROJ. NO. CX-CXBRF 03-0034-21  
 SHEET NO. 43X

AS CONSTRUCTED  
 NO REVISIONS  
 REVISED 10-1-92  
 VOID

SE 1/4 Sec. 14

End exist. asphalt curb



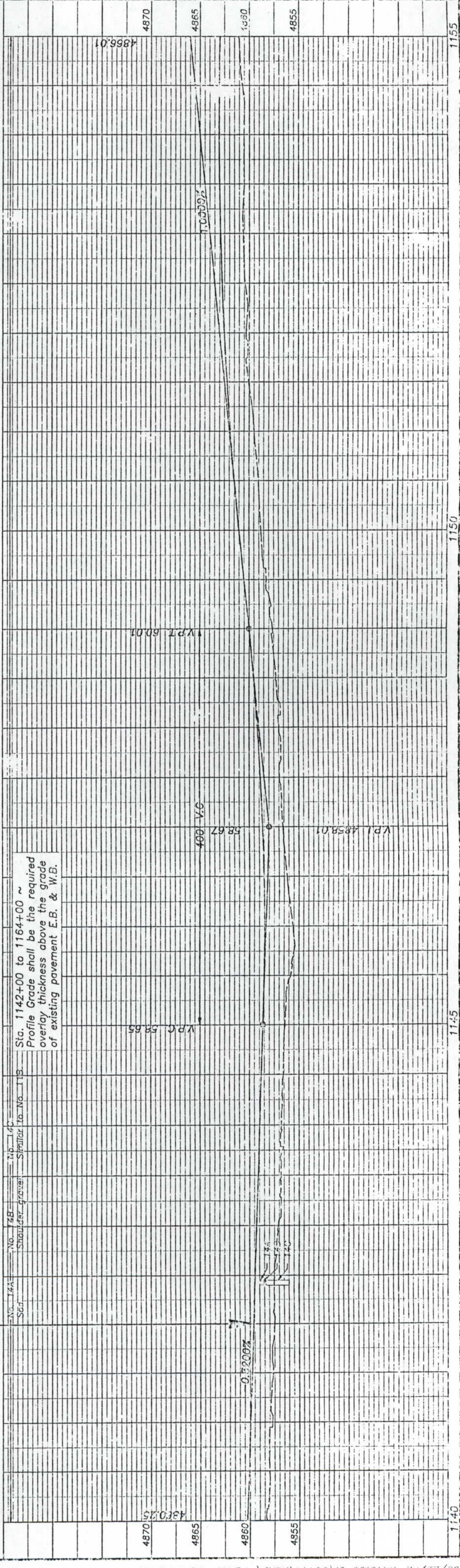
Control Point

Sta. 1142+00 ~ End CX-CXBRF 03-0034-21  
 = Sta. 419+79.15 on Proj. F 007-1(15)  
 M.P. 109.792

Sta. 1142+00 to 1164+00 ~  
 Approach to Project

ELKS CLUB LAKE

NE 1/4 Sec. 23



1141+06 ~ Removed  
 18" x 33" CSP Lt.  
 18" x 33" Field Apr. Lt.  
 (W=24", R=20")  
 16" x 49" Culvert Pipe,  
 End Sections Lt.  
 Control Moun.  
 Control Point O  
 N 38632.400 E 221088.3940  
 10" x 33" CSP Side Dr.

No. 14A  
 No. 74B  
 No. 14C  
 Shoulder gravel  
 Similar to No. 11B

Sta. 1142+00 to 1164+00 ~  
 Profile Grade shall be the required  
 overlay thickness above the grade  
 of existing pavement E.B. & W.B.

FED. ROAD REGION VIII  
 DIVISION COLO.  
 PROJ. NO. CX-CXBRF 03-0034-21  
 SHEET NO. 4-4

AS CONSTRUCTED  
 NO REVISIONS  
 REVISED  
 VOID 10-1-97

