



Region 1
Address: 18500 E. Colfax Ave.
Aurora, CO 80011
Phone: (303) 757-9117 FAX: (303) 757-9746

Right of Way Plans Unit: Kevin A. Williams, PLS

Sheet Revisions

Sheet Revisions

Sheet Revisions

Right of Way Plans

TITLE SHEET

Project Number: IM 0703-244 (SEGMENT 4)
Project Location: I 70 (MP 242.1 to MP 244.2)
Project Name: Twin Tunnels - Hidden Valley - Kermits
Project Code: 12691 Last Mod. Date: July 9, 2002 Subst. Sheets: of Sheet No. 1 Total No. of Sheets: 13

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

RIGHT OF WAY PLAN

PROJECT NO. IM 0703-244 (SEGMENT 4)
BEING A SURVEY OF THE RIGHT OF WAY LINES AS EXISTING IN 2001
PRIMARILY ESTABLISHED BY FEDERAL AID PROJECT NO. I 70-3(1)250
INTERSTATE 70 (TWIN TUNNELS - HIDDEN VALLEY- KERMIT)

MP 242.1 TO MP 244.2

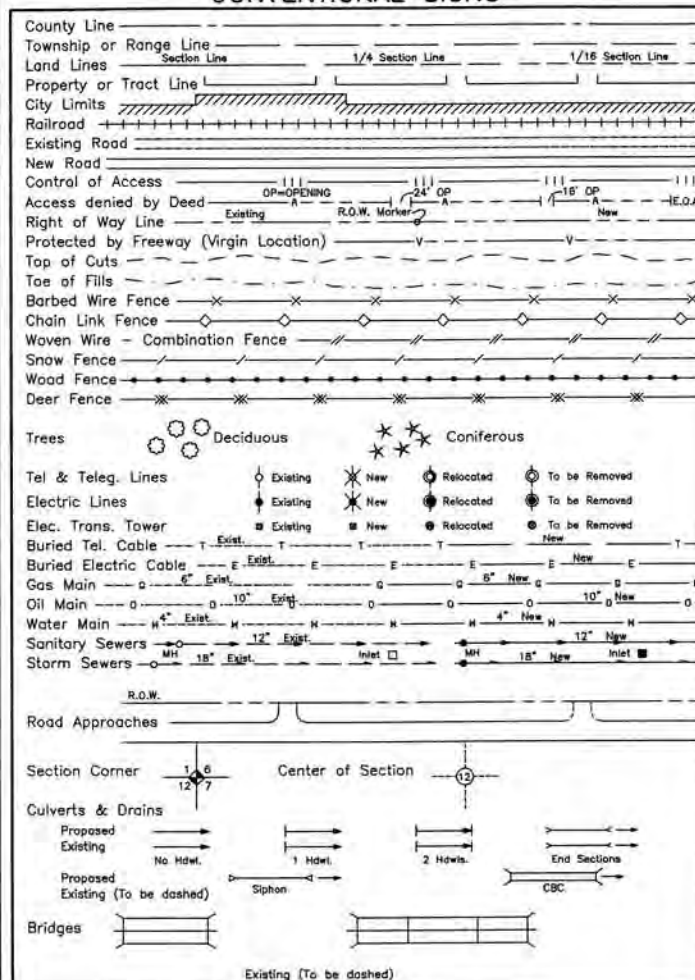
CLEAR CREEK COUNTY

SECTIONS 32, 33 & 34, T3S, R72W, 6TH PM

INDEX OF SHEETS

1 TITLE SHEET
2 TABULATION OF PROPERTIES
3-3E SURVEY CONTROL DIAGRAM
4-4A MONUMENTATION SHEETS
5-13 ROW PLAN SHEETS

CONVENTIONAL SIGNS



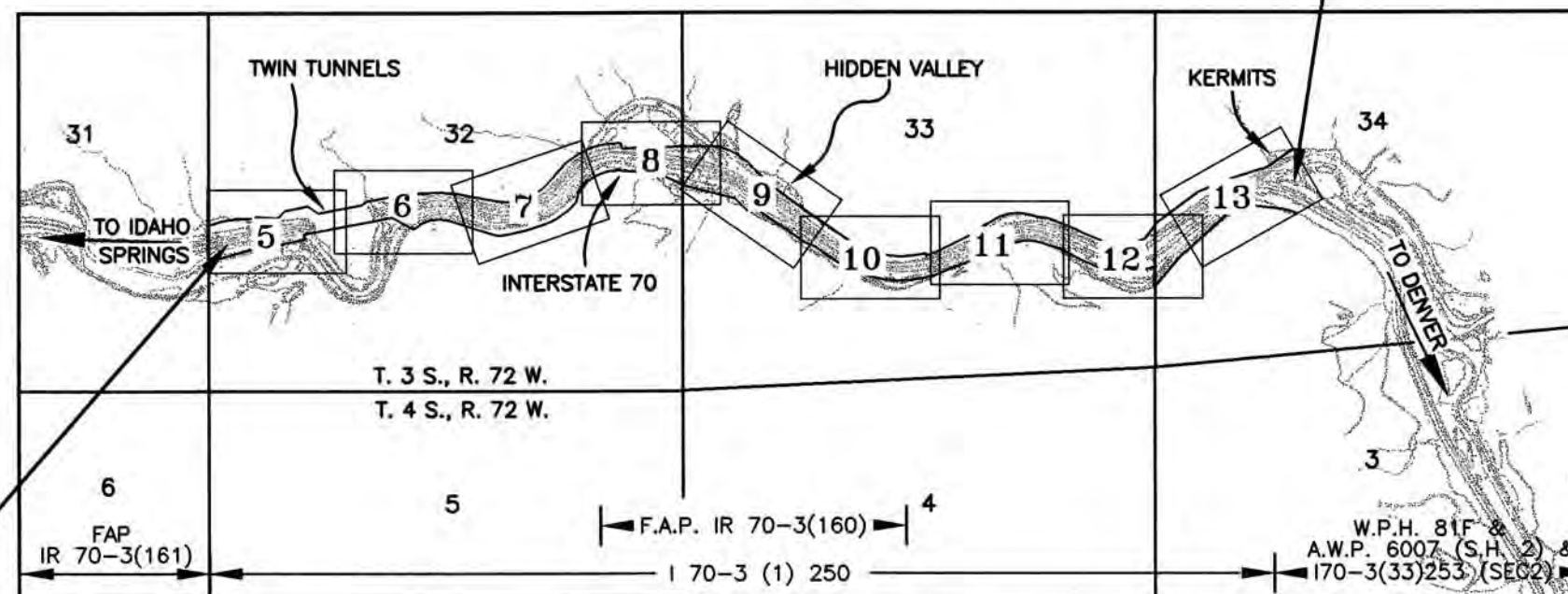
SCALES OF ORIGINAL DRAWINGS

PLAN SHEETS : 1"=100'

LENGTH OF R.O.W. PROJECT : 2.1 MILES

END R.O.W. RETRACEMENT

STA. 300+44.2 I70-3(1)250=
STA. 300+44.2 IM 0703-244
SEGMENT 4, (MP = 244.2)



BEGIN R.O.W. RETRACEMENT

STA. 165+39.14 I70-3(1)250 =
STA. 165+39.14 IM 0703-244
SEGMENT 4, (MP = 242.1)

Basis of Bearings:

Bearings used in the calculation of coordinates are based on a grid bearing of S89°58'52"E between CDOT type 2 monuments (as described below) I-70 CM-MP 242.7 to I-70 CM-MP 243.0, as obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN). Said grid bearing is NAD '83 (1992) Colorado State Plane (Central Zone).

CM-MP 242.7
CDOT TYPE 2 (BASIS OF BEARING) S89°58'52"E 974.25'
CM-MP 243.0
CDOT TYPE 2

NOTE:

Previous Right of Way Projects.

1. I 70-3 (1) 250
2. A.W.P. 6007 (S.H. 2)
3. FAP IR 70-3(161)
4. I70-3(33)253 (SEC2)
5. W.P.H. 81F
6. F.A.P. IR 70-3(160)

N.R.H. 181-D &
I70-3 (7) 240 (SECTION 2)

County Recorder Certificate

This Right of Way plan was filed for record in the office of the County Clerk and Recorder of Clear Creek County at _____ in on this _____ day of _____, 20____ at Book _____, Page 214374
Reception No. 214374

Clerk and Recorder



[illegible]



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Survey Unit: Joseph P. Conway, PLS

Sheet Revisions

INTERSTATE 70 (MP 242.1 TO MP 244.2)
Sections 32, 33 & 34 of
T. 3 S., R. 72 W., 6th PM
CLEAR CREEK COUNTY, COLORADO

Survey Control Diagram

Title Sheet

Project Number: IM 0703-244 (SEGMENT 4)				
Project Location: I 70 (MP 242.1 to MP 244.2)				
Project Location: Twin Tunnels - Hidden Valley - Kermits				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
12891	July 9, 2002	of	3	13

CONSTRUCTION SURVEYING AND MONUMENTATION REQUIREMENTS:

- 1). This Control Survey Diagram represents the horizontal and vertical control for the project established by the Division. It is possible that some of the survey control monuments listed have been disturbed or obliterated. It is the Contractor's responsibility to verify the existence and stability of the control monuments before submitting a bid price.
- 2). All Type 1 and Type 2 monuments shall be set flush with the ground. Witness posts shall be installed 1 foot from and facing all Type 1 and Type 2 monuments, or as directed by the Project Engineer.
- 3). Installation of Type 3 and Type 3-A monuments shall be completed in the same day that installation is commenced. Under no circumstances shall holes in the roadway be left open overnight.
- 4). When installing Type 3-A monuments, the aluminum access cover shall be positively secured to the PVC pipe with screws or glue. The access cover shall be caulked with asphalt caulking between the cover and the edges of the roadway surface to provide a positive moisture barrier around the access cover.
- 5). Control survey procedures, statistical analysis, and accuracy obtained for horizontal and vertical control shall be documented in the field book.
- 6). Legible copies of the field books shall be submitted to the Project Engineer for review on a monthly basis.
- 7). It is ultimately the prime Contractors responsibility to insure that these requirements, as well as any contained in the CDOT specifications, project special provisions, and CDOT Survey Manual are fulfilled under this contract.
- 8). The minimum staking intervals for each item are described on the plans or in the CDOT Survey Manual. If the contractor wishes to reduce the minimum intervals, a Contract Modification Order must be negotiated and the cost of the item reduced accordingly.



Typical Control Monument Cap
Not to Scale



CP - Control Point Monuments set by CDOT. They were CDOT type 2 monuments, a 3-1/4" dia. aluminum control monument cap (as shown) on a 3' X 3/4" dia. finned aluminum security rod on a 3' X 3/4" dia. smooth aluminum rod.

BASIS OF BEARINGS: Bearings used in the calculation of coordinates are based on a grid bearing of S89°58'52"E from CDOT type 2 monuments (as described below) I-70 CM-MP 242.7 to I-70 CM-MP 243.0 as obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN). Said grid bearing is NAD '83 (1992) Colorado State Plane (Central Zone).

BASIS OF ELEVATIONS: Project is based on an elevation of 2422.788 (meters) 7948.76 (feet) NAVD88 on NGS Second Order Bench Mark R 264 (NGS PID KK1151). All other Control Points on this project were established by GPS fast static observations tied to said Bench Mark R 264.

COORDINATE DATUM: Coordinates on this project are for the exclusive use of the CDOT for the construction of this project and are considered Project Coordinates only.

NOTE: This control survey is for the use of the Colorado Department of Transportation personnel. The survey is not a complete Boundary Survey. Title Policy, Title Commitment, and Title Research were not part of this control survey, therefore, easements, rights, and restrictions of record are not shown. The verification of the physical evidence with relation to easements, rights of way, property boundaries, and restriction, as described in the instruments of record, were not included in this control survey.

NOTE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the statement shown.

NOTE: No guarantee as to the accuracy of the information contained on the attached drawing is either stated or implied unless this copy bears an original signature of the professional land surveyor hereon named.

SURVEYOR'S STATEMENT: I, Daniel P. Wilmeth, a Registered Professional Land Surveyor in the State of Colorado, do hereby state that this survey control diagram was prepared under my direct responsibility, supervision and checking, this 9th day of July, 2002, on behalf of JF Sato and Associates for the Department of Transportation, State of Colorado.

DANIEL P. WILMETH, P.L.S. 25384

GEODETIC COORDINATE SUMMARY TABLE (ADJUSTED FIELD DATA)

POINT NAME	GEODETIC COORDINATES NAD-83(92) (CHARN)		NAD 83/92 ZONE 0502		NAD 83/92 ZONE 0502		ELLIP. HEIGHT	ELEV. (NAVD 88)	MAPPING ANGLE	GRID SCALE	DESCRIPTION
	LATITUDE	LONGITUDE	NORTHING (m)	EASTING (m)	NORTHING (sft)	EASTING (sft)					
2419	39° 44' 36.62192" N	105° 28' 53.33633" W	516851.140	915989.020	1695702.46	3005207.32	7386.59	7430.54	0° 00' 42.04408"	0.99999872	I-70 CM-MP 241.9
2421	39° 44' 37.93414" N	105° 28' 39.19422" W	516891.690	916325.720	1695835.48	3006311.98	7344.58	7388.60	0° 00' 50.96336"	0.99999879	I-70 CM-MP 242.1
2424	39° 44' 41.86232" N	105° 28' 15.90359" W	517013.000	916880.210	1696233.47	3008131.15	7307.81	7351.40	0° 01' 05.65252"	0.99999901	I-70 CM-MP 242.4
2425	39° 44' 40.69798" N	105° 28' 02.05896" W	516977.200	917209.840	1696116.03	3009212.62	7316.57	7360.36	0° 01' 14.38418"	0.99999894	I-70 CM-MP 242.5
2427	39° 44' 48.87477" N	105° 27' 52.78190" W	517229.470	917430.620	1696943.68	3009936.95	7300.74	7344.58	0° 01' 20.23513"	0.99999939	I-70 CM-MP 242.7
2430	39° 44' 48.86770" N	105° 27' 40.31364" W	517229.370	917727.460	1696943.36	3010910.84	7269.63	7314.00	0° 01' 28.09873"	0.99999939	I-70 CM-MP 243.0
2431	39° 44' 46.30646" N	105° 27' 32.39475" W	517150.460	917916.030	1696684.47	3011529.50	7275.25	7319.68	0° 01' 33.09309"	0.99999925	I-70 CM-MP 243.1
2433	39° 44' 40.12997" N	105° 27' 21.07307" W	516960.090	918185.670	1696059.91	3012414.14	7248.19	7292.16	0° 01' 40.23356"	0.99999891	I-70 CM-MP 243.3
2434	39° 44' 34.61568" N	105° 27' 11.35646" W	516790.140	918417.090	1695502.32	3013173.42	7237.13	7281.17	0° 01' 46.36172"	0.99999861	I-70 CM-MP 243.4
2436	39° 44' 41.10287" N	105° 26' 53.44532" W	516990.450	918843.430	1696159.49	3014572.15	7226.99	7271.64	0° 01' 57.65809"	0.99999897	I-70 CM-MP 243.6
2439	39° 44' 37.24276" N	105° 26' 43.64776" W	516871.530	919076.770	1695769.35	3015337.69	7216.46	7261.14	0° 02' 03.83731"	0.99999876	I-70 CM-MP 243.9
2440	39° 44' 36.78068" N	105° 26' 33.49251" W	516857.430	919318.560	1695723.08	3016130.98	7211.95	7256.68	0° 02' 10.24212"	0.99999873	I-70 CM-MP 244.0
2441	39° 44' 41.45680" N	105° 26' 24.27794" W	517001.790	919537.860	1696196.70	3016850.45	7182.09	7226.37	0° 02' 16.05365"	0.99999899	I-70 CM-MP 244.1
2442	39° 44' 46.53450" N	105° 26' 16.07592" W	517158.530	919733.030	1696710.93	3017490.77	7185.45	7229.81	0° 02' 21.22658"	0.99999926	I-70 CM-MP 244.2
2444	39° 44' 41.58641" N	105° 26' 06.79498" W	517006.070	919954.100	1696210.76	3018216.07	7245.39	7290.32	0° 02' 27.07997"	0.99999899	I-70 CM-MP 244.4
2445	39° 44' 35.60127" N	105° 25' 59.09815" W	516821.610	920137.480	1695605.58	3018817.73	7307.04	7351.60	0° 02' 31.93428"	0.99999867	I-70 CM-MP 244.5
2447	39° 44' 28.23046" N	105° 25' 57.82529" W	516594.310	920167.960	1694859.83	3018917.71	7338.58	7382.99	0° 02' 32.73706"	0.99999827	I-70 CM-MP 244.7
2448	39° 44' 22.74769" N	105° 25' 52.52395" W	516425.310	920294.310	1694305.36	3019332.25	7376.81	7421.26	0° 02' 36.08056"	0.99999797	I-70 CM-MP 244.8
IDAHO AZ MK	39° 44' 25.61860" N	105° 30' 49.53665" W	516511.710	913222.359	1694588.84	2996130.36	7640.75	7683.7	-0° 00' 31.24223"	0.99999812	NGS PID KK2023
RMCL120	39° 43' 28.65029" N	105° 25' 03.21643" W	514757.844	921469.850	1688834.69	3023189.00	7806.91	7851.62	0° 03' 07.17831"	0.99999508	NGS PID AA5198

PROJECT COORDINATE SUMMARY TABLE (ADJUSTED FIELD DATA)

Project Coordinate Parameters

All calculations were based on point IDAHO AZ MK (NGS PID KK2023)

with the following values:

Lat. 39°44'25.61860" N

Long. 105°30'49.53665" W

Ellipsoidal Height 2328.88 m

Combined Project Factor = 0.999633623

Combined Project Factor Reciprocal = 1.000366511

Conversion Meters to USFeet:

One meter equals $3937/1200$ feet.

Conversion Example of State Plane Coordinates to Project Coordinates:

$$\text{State Plane Northing in USFT} \times 1.000366511 - 1,000,621.79 = \text{Project Northing in USFT}$$
$$\text{State Plane Easting in USFT} \times 1.000366511 - 2,001,072.23 = \text{Project Easting in USFT}$$

IDAHO AZ MK

$$1.694.588.84' \times 1.000366511 - 1.000.621.79' = 694.588.14'$$
$$2.996,130.36' \times 1.000366511 - 2,001,072.23' = 996,156.25'$$

*Truncation applied in order to match previously established project and mapping coordinates

POINT NAME	PROJECT COORDINATES US FT		ELEV.	DESCRIPTION
	NORTHING	EASTING	(NAVD 88)	
2419	695702.16	1005236.54	7430.54	I-70 CM-MP 241.9
2421	695835.24	1006341.60	7388.60	I-70 CM-MP 242.1
2424	696233.38	1008161.44	7351.40	I-70 CM-MP 242.4
2425	696115.89	1009243.30	7360.36	I-70 CM-MP 242.5
2427	696943.84	1009967.90	7344.58	I-70 CM-MP 242.7
2430	696943.52	1010942.15	7314.00	I-70 CM-MP 243.0
2431	696684.53	1011561.03	7319.68	I-70 CM-MP 243.1
2433	696059.75	1012446.00	7292.16	I-70 CM-MP 243.3
2434	695501.95	1013205.55	7281.17	I-70 CM-MP 243.4
2436	696159.37	1014604.80	7271.64	I-70 CM-MP 243.6
2439	695769.08	1015370.62	7261.14	I-70 CM-MP 243.9
2440	695722.80	1016164.20	7256.68	I-70 CM-MP 244.0
2441	696196.59	1016883.93	7226.37	I-70 CM-MP 244.1
2442	696711.00	1017524.49	7229.81	I-70 CM-MP 244.2
2444	696210.65	1018250.05	7290.32	I-70 CM-MP 244.4
2445	695605.25	1018851.93	7351.60	I-70 CM-MP 244.5
2447	694859.23	1018951.95	7382.99	I-70 CM-MP 244.7
2448	694304.56	1019366.64	7421.26	I-70 CM-MP 244.8
IDAHO AZ MK	694588.14	996156.25	7683.7	NGS PID KK2023
RMCL120	688831.88	1023224.80	7851.62	NGS PID AA5198



COLORADO DEPARTMENT OF TRANSPORTATION

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Sheet Revisions			

INTERSTATE 70 (MP 242.1 TO MP 244.2)
Sections 32, 33 & 34 of
T. 3 S., R. 72 W., 6th PM
CLEAR CREEK COUNTY, COLORADO

Survey Control Diagram				
Tabulation of Aliquot Corners				
Project Number: IM 0703-244 (SEGMENT 4)				
Project Location: I 70 (MP 242.1 to MP 244.2)				
Project Location: Twin Tunnels - Hidden Valley - Kermits				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
12691	July 9, 2002	of	38	13

☐ TABULATION OF ALIQUOT CORNERS

POINT NAME	PROJECT COORDINATES US FT		LOCATION	DESCRIPTION
	NORTHING	EASTING		
4001	695448.43	1005995.61	S 1/16 COR S31 & S32 T3S R72W	Fnd 3 1/4" Dia. Alum. Cap Stamped - PLS 25775 (1994)
4002	696865.94	1011049.52	E 1/4 COR S32 T3S R72W	Fnd 3 1/4" Dia. Alum. Cap Stamped - CDOT - PLS 20680 (2000)
4016	693894.75	1018617.38	NE COR LOT3 S3 T4S R72W	Fnd 2 1/2" Dia. Alum. Cap Stamped - LS 20680 (1995)
4017	694727.93	1018623.75	N 1/4 COR S3 T4S R72W	Fnd 2 1/2" Dia. Brass Cap Stamped - General Land Office Survey - (1924)
4018	696803.23	1008511.57	C 1/4 COR S32 T3S R72W	Fnd 1 1/2" Dia. Alum. Cap Stamped - 865
A4019	694410.33	1013566.66	S 1/4 COR S33 T3S R72W (1)	Fnd 2 1/2" Dia. Alum. Cap Stamped - Costin Engineering - 20683
*B4019	694436.65	1013558.60	S 1/4 COR S33 T3S R72W (2)	Fnd 1 1/2" Dia. Alum. Cap Stamped - LS 2690
A4020	696931.27	1013563.49	C 1/4 COR S33 T3S R72W (1)	Fnd 1 1/2" Dia. Alum. Cap Stamped - LS 2690
*B4020	696931.35	1013560.94	C 1/4 COR S33 T3S R72W (2)	Fnd #3 Rebar w/ 1 1/4" Dia. Brass Tag Attached
*A4021	696899.05	1012312.86	C-W 1/16 COR S33 T3S R72W (1)	Fnd 2 1/2" Dia. Alum. Cap Stamped - Costin Engineering - LS 20683
B4021	696898.53	1012306.36	C-W 1/16 COR S33 T3S R72W (2)	Fnd 2 1/2" Dia. Alum. Cap Stamped - PLS 26296 (1996)
4022	696738.88	1005975.92	W 1/4 COR S32 T3S R72W	Fnd 3" Dia. Brass Cap Stamped - US Dept. Of Agriculture - LS 11607 (1974)
4023	694956.33	1021131.66	NW COR S2 T4S R72W	Fnd 2 1/2" Dia. Brass Cap Stamped - General Land Office Survey - (1924)
4024	694484.04	1016125.31	NW COR S3 T4S R72W	Fnd 2 1/2" Dia. Brass Cap Stamped - General Land Office Survey - (1924)
4025	697283.43	1018671.10	C 1/4 COR S34 T3S R72W	Fnd 3 1/4" Dia. Alum. Cap Stamped - RLS 13486
4026	696999.01	1016126.66	W 1/4 COR S34 T3S R72W	Fnd 2 1/2" Dia. Brass Cap Stamped - General Land Office Survey - (1924)

*MONUMENT LOCATED BUT NOT ACCEPTED AS THE TRUE POSITION OF THE PLSS CORNER

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INTERSTATE 70 (MP 242.1 TO MP 244.2)
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Survey Control Diagram

Tabulation of R.O.W. Line Evidence

Project Number: IM 0703-244 (SEGMENT 4)				
Project Location: I 70 (MP 242.1 to MP 244.2)				
Project Location: Twin Tunnels - Hidden Valley - Kermits				
Project Code:	Last Mod. Date	Subst. Sheets	Sheet No.	Total No. of Sheets
12691	July 9, 2002	of	3C	13

TABULATION OF FOUND RIGHT OF WAY LINE EVIDENCE

POINT NAME	PROJECT COORDINATES US FT		DESCRIPTION
	NORTHING	EASTING	
3054	694763.00	1019628.42	Fnd 1 1/2" Dia. Alum. Cap Stamped - Colo Div Hwys - w/1 3/4" Dia. Alum. Washer Stamped - Row
3055	694041.36	1019585.22	Fnd 1 1/2" Dia. Alum. Cap Stamped - Colo Div Hwys - w/1 3/4" Dia. Alum. Washer Stamped - 32+00 - 400 LT
3066	693494.98	1019278.89	Fnd 1 1/2" Dia. Alum. Cap Stamped - Colo Div Hwys - w/1 3/4" Dia. Alum. Washer Stamped - 35+00 - Row
3067	693629.93	1019123.24	Fnd 1 1/4" Dia. Yellow Plastic Cap Stamped - Alpine Survey - PLS 9996
3068	693767.24	1018984.65	Fnd 3 3/16" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - XXX No - AWP 6007 - Sta. 35+00 - EI 7418.77
3069	695297.98	1018637.33	Fnd 1 1/2" Dia. Alum. Cap Stamped - Colo Div Hwys - (no washer)
3070	695364.28	1018620.36	Fnd 1 1/2" Dia. Alum. Cap Stamped - Colo Div Hwys - w/1 3/4" Dia. Alum. Washer Stamped - Post 413.9 AH - PI 12+21.0 - 219.4 RT
3071	695561.58	1018249.03	Fnd 1 1/2" Dia. Alum. Cap Stamped - Colo Div Hwys - (no washer)
3072	695903.15	1018249.78	Fnd 1" Dia. Yellow Plastic Cap Stamped - LS 20680
3073	696932.28	1018108.98	Fnd 3 3/16" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - WPH .81F Unit 1 - Sta. 307+10 - EI 7224.42
3074	696386.67	1011449.72	Fnd 3 3/16" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - I-70-3 (4) 250 - Sta. - EI -
3075	696493.77	1011042.38	Fnd 3 3/16" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - Sta. - EI -
3076	696632.91	1010676.04	Fnd 3 3/16" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - I-70-3 (4) 250 - Sta. - EI -
3077	696691.45	1010320.17	Fnd 3 3/16" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - 181 E - Sta. 216+00 - EI 7327.14
3078	696578.31	1009798.14	Fnd 3 3/16" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - 181 E - Sta. PC 213+28.7 - EI 7550.07
3079	695981.15	1015360.55	Fnd 3 1/4" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - Colo Dept. Of Highways Row Marker - Sta. - EI
3080	696058.78	1015199.06	Fnd 3 1/4" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - Colo Dept. Of Highways Row Marker - Sta. - EI
3081	695707.73	1005664.41	Fnd 3 1/4" Dia. Alum. Cap (CDOT Type 1) Stamped - Colo Dept. Of Highways - Row Monument - Row Proj - Point No 1013 - PLS 18454
3082	696974.64	1010193.47	Fnd 1" Dia. Red Plastic Cap Stamped - CCS Inc. - PLS 26296
3083	696878.27	1011485.74	Fnd #5 Rebar
3084	696698.65	1011684.39	Fnd 1 1/4" Dia. Faded Yellow Plastic Cap Stamped - Costin Eng - LS 20683
3085	696246.75	1011594.02	Fnd #3 Rebar - Remains of a 1" Dia. Plastic Cap (Illegible)
3086	695377.17	1016125.58	Fnd 1" Dia. Yellow Plastic Cap Stamped - LS 20680
3087	696935.78	1017658.40	Fnd 1 1/2" Dia. Alum. Cap Stamped - 19040 And Hwy 6 F/W - 19618
3088	695128.06	1019326.15	Fnd 1" Dia. Yellow Plastic Cap Stamped - LS 13486
*3089	696170.22	1005984.54	Fnd #5 Rebar
*3090	696187.49	1006113.70	Fnd 3 3/16" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - 1.8.1 E - Sta. 161+00 - EI 7420.02
3091	696747.02	1017385.15	Fnd 1 5/8" Dia. Alum. Cap Stamped - (Mostly Illegible) - LS 25??
3092	695432.75	1005997.75	Fnd 1 1/4" Dia. Yellow Plastic Cap Stamped - Alpine Survey - PLS 9996
3094	696151.23	1017823.74	Fnd 1" Dia. Yellow Plastic Cap Stamped - LS 20680
3099	695980.58	1019176.32	Fnd #4 Rebar
3102	696883.27	1018208.97	Fnd 3" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - WPH 81F Unit 1 - Sta. 308+05 - EI 7229.03
3103	696792.11	1018291.07	Fnd 3" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - WPH 81F Unit 1 - Sta. 308+97A - EI 7250.22
3104	696942.15	1017208.13	Fnd. Vertical Stone 1.5' Wide 1' above the ground with 21/2" pvc pipe upright next to stone, no visible markings on stone
3105	696505.56	1018716.84	Fnd 3" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - Sta. - EI
3106	696810.75	1018307.79	Fnd 3" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - WPH 81F Unit 1 - Sta. 308+96.2 - EI 7287.43
3107	697044.24	1011045.83	Fnd 1 1/4" Dia. Red Plastic Cap Stamped - CCS - RLS 26296
3108	696973.49	1011047.20	Fnd 1 1/4" Dia. Red Plastic Cap Stamped - CCS - RLS 26296
3109	697008.50	1010185.02	Fnd 1 1/4" Dia. Red Plastic Cap Stamped - CCS - RLS 26296
3110	696974.27	1011142.90	Fnd 1 1/4" Dia. Red Plastic Cap Stamped - CCS - RLS 26296
3111	695884.68	1012245.18	Fnd #5 Rebar
3112	696009.15	1008816.76	Fnd 3 3/16" Dia. Brass Cap in 6" Dia. Conc. Post Stamped - State Highway Dept. Row Marker - FAP No - 181 E - Sta. 202+00 - EI 7387.52

NOTE: *MONUMENT LOCATED BUT NOT ACCEPTED AS THE TRUE POSITION REPRESENTING THE PRESENT R.O.W. LINE.

COLORADO DEPARTMENT OF TRANSPORTATION

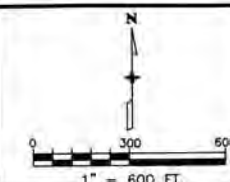


Region 1
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Survey Unit: Joseph P. Conway, PLS

Sheet Revisions

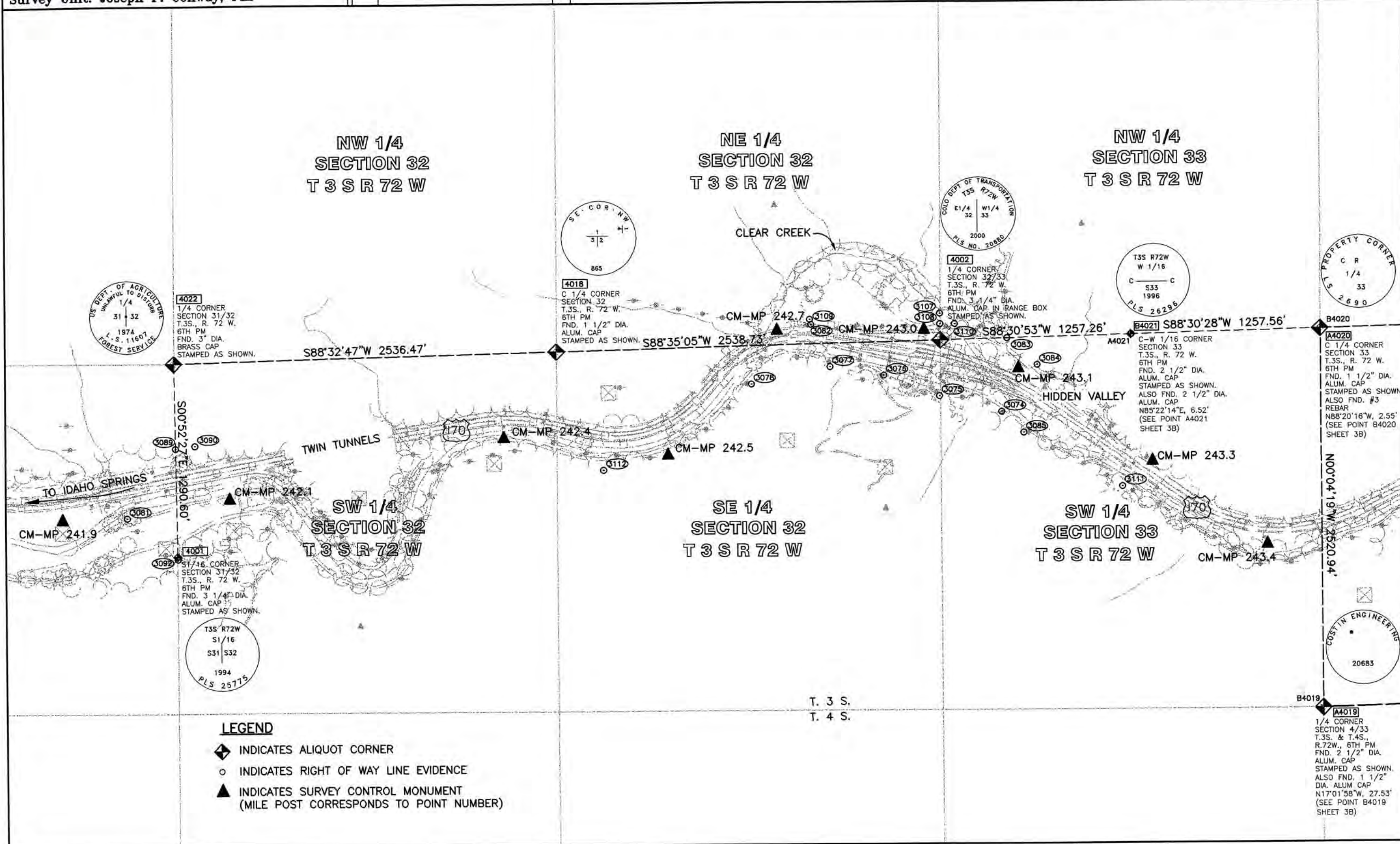
INTERSTATE 70 (MP 242.1 TO MP 244.2)
Sections 32, 33 & 34 of
T. 3 S., R. 72 W., 6th PM
CLEAR CREEK COUNTY, COLORADO



Survey Control Diagram

PLAN SHEET

Project Number: IM 0703-244 (SEGMENT 4)				
Project Location: I 70 (MP 242.1 to MP 244.2)				
Project Location: Twin Tunnels - Hidden Valley - Kermits				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
12691	July 9, 2002	of	30	13



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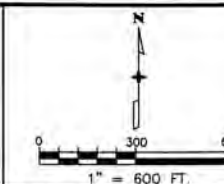
Sheet Revisions

INTERSTATE 70 (MP 242.1 TO MP 244.2)
Sections 32, 33 & 34 of
T. 3 S., R. 72 W., 6th PM
CLEAR CREEK COUNTY, COLORADO

Survey Control Diagram

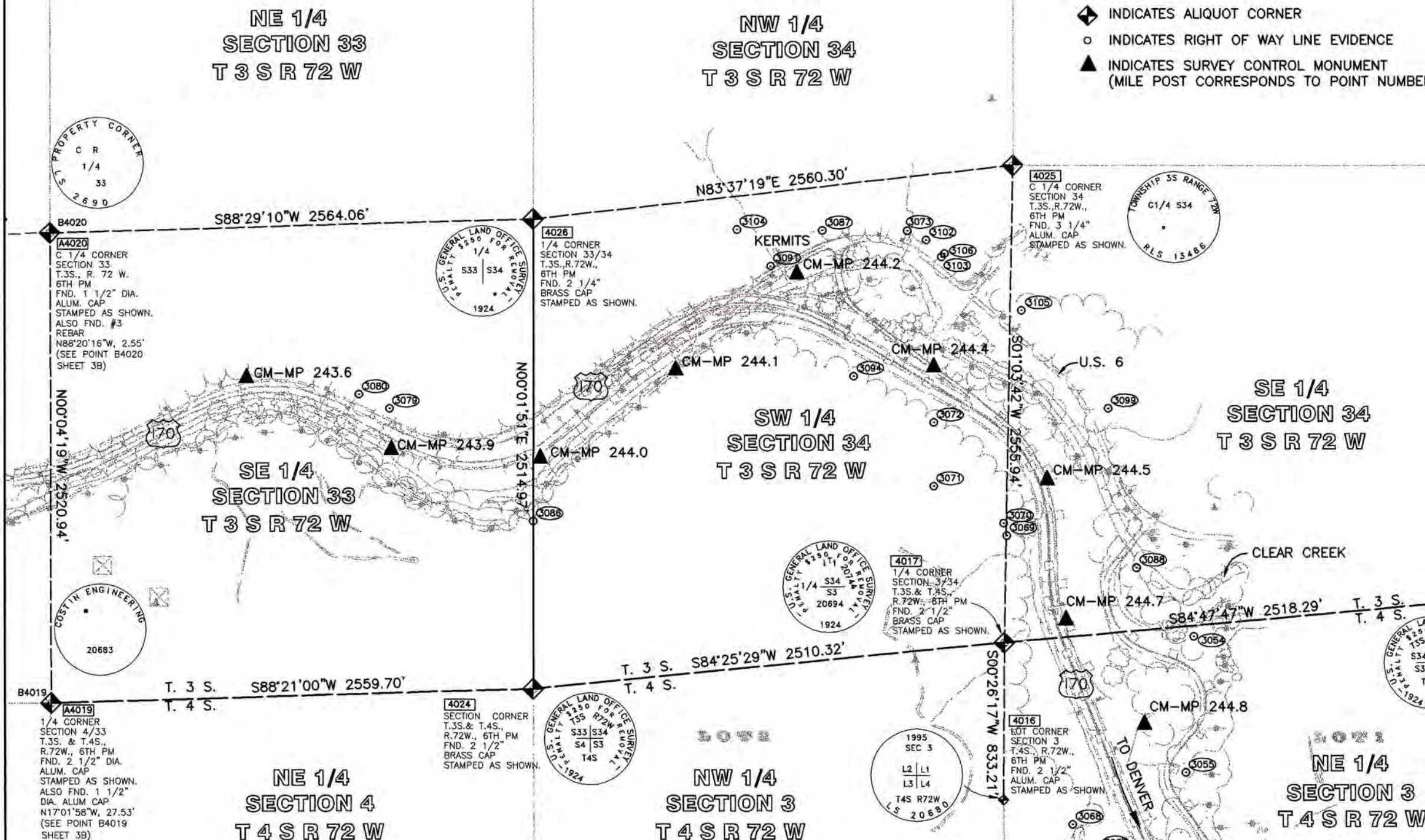
PLAN SHEET

Project Number: IM 0703-244 (SEGMENT 4)				
Project Location: I 70 (MP 242.1 to MP 244.2)				
Project Location: Twin Tunnels - Hidden Valley - Kermits				
Project Code: 12691	Last Mod. Date: July 9, 2002	Subset Sheets: of	Sheet No.: 3E	Total No. of Sheets: 13



LEGEND

- ◆ INDICATES ALIQUOT CORNER
- INDICATES RIGHT OF WAY LINE EVIDENCE
- ▲ INDICATES SURVEY CONTROL MONUMENT (MILE POST CORRESPONDS TO POINT NUMBER)





GENERAL NOTES

- 1) THIS RIGHT OF WAY PLAN AND ASSOCIATED FIELD SURVEYS WAS PREPARED IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION SPECIAL INSTRUCTIONS AND THE MEMORANDUM OF UNDERSTANDING BETWEEN THE COLORADO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS AND THE COLORADO DEPARTMENT OF TRANSPORTATION, DATED JULY 1, 1985
- 2) FIELD SURVEYS COMMENCED ON JUNE OF 2000, RECOVERING AND SURVEYING FIELD EVIDENCE, (AS TABULATED). THE MONUMENTATION RECOVERED WAS LOCATED BY A COMBINATION OF GLOBAL POSITIONING SYSTEM (GPS) FAST STATIC, RTK AND RTK DATA LOGGING TECHNIQUES. CONVENTIONAL SURVEY METHODS WERE APPLIED WHEN REQUIRED.
- 3) FIELD SURVEYS WERE COMPLETED ON (DECEMBER OF 2001) THE MONUMENTATION OF MISSING OR NOT ACCEPTED MONUMENTS ALONG THE RETRACED RIGHT OF WAY LINES WERE SET AND VERIFIED BY A COMBINATION OF GPS RTK DATA LOGGING AND CONVENTIONAL SURVEY METHODS.
- 4) RIGHT OF WAY LINE RESOLUTION NOTES:
- a) EXISTING RIGHT OF WAY LINES WERE RETRACED AND MONUMENTED PER A COMPILATION OF SURVEYED FIELD EVIDENCE, AVAILABLE PUBLIC RECORD AND THE DEPARTMENT OF HIGHWAYS FEDERAL AID PROJECT NO. I-70-3(1)250 RIGHT OF WAY PLANS WITH ACCOMPANYING DEEDS.
- b) EXISTING RIGHT OF WAY MONUMENTATION FOUND AND SHOWN AS ACCEPTED HEREIN WAS DETERMINED TO BE HARMONIOUS WITH THE PREPONDERANCE OF EVIDENCE OF FOUND MONUMENTS, DEEDS AND THE CALCULATED ALIGNMENT OF THE EXISTING RIGHT OF WAY LINE. IT SHOULD NOTED THAT SOME OF THE LINEAR DISTANCES BETWEEN ACCEPTED FOUND MONUMENTS DO NOT MATCH THE RECORD DISTANCES BUT DO MATCH THE CALCULATED RIGHT WAY ALIGNMENT. IT WAS DETERMINED THAT IT WOULD BE IN THE BEST INTEREST OF THE GENERAL PUBLIC TO ACCEPT THESE MONUMENTS AS THE EXISTING RIGHT OF WAY LINE IN ORDER TO AVOID MULTIPLE MONUMENTATION AND CREATE POSSIBLE CONFUSION ALONG THE LINE.
- c) RIGHT OF WAY LINES RESOLVED FROM EXISTING FIELD MONUMENTATION AND EVIDENCE WERE FIXED IN POSITION OVER DEED TIES.
- d) NO PROPORTION WAS APPLIED BETWEEN FOUND ACCEPTED MONUMENTS ALONG THE EXISTING RIGHT OF WAY LINE. IT WAS DETERMINED THAT PROPORTIONING BETWEEN FOUND ACCEPTED MONUMENTS ALONG THE EXISTING RIGHT OF WAY LINE WOULD BE VERY COMPLICATED AND WOULD CAUSE CONFUSION IN THE FUTURE. THEREFORE THE EXISTING RIGHT OF WAY LINE WAS FORCED FROM THE FOUND ACCEPTED MONUMENT BACK TO ITS CALCULATED RECORD POSITION IN THOSE AREAS WHERE NEW MONUMENTS NEEDED TO BE SET.
- e) FOUND MONUMENTS SHOWN HEREIN AS NOT ACCEPTED WERE DETERMINED NOT TO MATCH THE PREPONDERANCE OF EVIDENCE OF THE EXISTING RIGHT OF WAY LINE FOR THE FOLLOWING REASONS. SAID MONUMENTS WERE NOT ON THE CALCULATED EXISTING RIGHT OF WAY ALIGNMENT AND WERE NOT HARMONIOUS WITH FOUND ACCEPTED MONUMENTATION ALONG THE EXISTING RIGHT OF WAY.
- 5) THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A PROFESSIONAL TITLE COMPANY RESEARCHER TO DETERMINE CURRENT OWNERSHIP, EASEMENTS OR RESTRICTIONS OF RECORD AS REQUESTED BY THE CLIENT. IT SHOULD BE NOTED THAT THE RIGHT OF WAY LINE DETERMINATIONS COULD CHANGE UPON THE COMPLETION OF ADJOINING BOUNDARY SURVEYS AND ADDITIONAL RESEARCH SUPPLIED BY A TITLE COMPANY.
- 6) THE PHOTOGRAMMETRIC MAPPING SHOWN ON THE RIGHT OF WAY PLAN SHEETS AND SURVEY CONTROL DIAGRAM WAS SUPPLIED BY THE COLORADO DEPARTMENT OF TRANSPORTATION AS CONSTRUCTED BY TRICONSULTANTS INC. (1990). THIS MAPPING WAS USED AS GRAPHICAL BACKGROUND ONLY AND HAS HAD SUPPLEMENTAL TMOSS SURVEYS, UPDATES, AND COORDINATE VALUE CHANGES APPLIED. IN ANY CASE THIS BACKGROUND MAPPING SHOULD NOT BE REPRODUCED OR USED FOR ANY OTHER PURPOSES.
- 7) SEE SURVEY CONTROL DIAGRAM FOR HORIZONTAL AND VERTICAL DATUM USED FOR THE LOCATION AND SETTING OF SHOWN TABULATED MONUMENTATION.
- 8) **NOTICE:** ACCORDING TO COLORADO LAW, YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.

QUANTITY OF MONUMENTS SET

CAP TYPE	MONUMENT TYPE							
	1	1A	2	2A	3	3A	5	6 BRASS PLUG
REFERENCE	36							
RIGHT OF WAY	39						4	
CONTROL								
ALIQUOT CORNER								
WITNESS POST								

DESCRIPTION OF RIGHT OF WAY MONUMENTS SET

CDOT TYPE 1 ROW MONUMENT
(3 1/4" ALUM. CAP ON 36" LONG BY 3/4" DIA. ROD)CDOT TYPE 5 ROW MONUMENT
(3 1/4" ALUMINUM ROCK CAP SET IN CONCRETE)CDOT TYPE 1 REFERENCE POINT MONUMENT
(3 1/4" ALUM. CAP ON 36" LONG BY 3/4" DIA. ROD)

SURVEYOR'S STATEMENT: I, Daniel P. Wilmeth, a Registered Professional Land Surveyor in the State of Colorado, do hereby state that this Right of Way Plan was prepared under my direct responsibility, supervision and checking, this 9th day of July, 2002, on behalf of JF Sato and Associates for the Department of Transportation, State of Colorado.

7-24-02
25384
DANIEL P. WILMETH
REGISTERED PROFESSIONAL LAND SURVEYOR

DANIEL P. WILMETH, P.L.S. 25384

COLORADO DEPARTMENT OF TRANSPORTATION



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Right of Way Plans Unit: Kevin A. Williams, PLS

Sheet Revisions

Sheet Revisions

Sheet Revisions

Right of Way Plans

MONUMENTATION SHEET

Project Number: IM 0703-244 (SEGMENT 4)				
Project Location: I 70 (MP 242.1 to MP 244.2)				
Project Location: Twin Tunnels - Hidden Valley - Kermits				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
12691	July 9, 2002	of	4A	13

TABULATION OF RIGHT OF WAY MARKERS SET

POINT	NORTHING	EASTING	DESCRIPTION
200	696298.53	1017286.95	NOT SET FALLS IN STEEP ROCK FACE (SET CDOT TYPE 1 REFERENCE POINTS 284 & 285)
201	696590.14	1016906.54	NOT SET FALLS IN STEEP UNSAFE SLOPE (SET CDOT TYPE 5 REFERENCE POINTS 303 & 304)
202	696452.77	1016603.30	NOT SET FALLS IN STEEP UNSAFE SLOPE (SET CDOT TYPE 5 REFERENCE POINT 304 & TYPE 1 305)
203	695956.45	1016647.48	CDOT TYPE 1
204	695753.30	1016426.74	CDOT TYPE 1
205	696123.32	1016168.40	NOT SET FALLS IN STEEP UNSAFE SLOPE (SET CDOT TYPE 1 REFERENCE POINTS 305 & 306)
206	695614.41	1016125.91	NOT SET FALLS IN RIVER (SET CDOT TYPE 1 REFERENCE POINT 287 & USED CM-MP 244.0)
207	695933.88	1016021.04	CDOT TYPE 1
208	695891.96	1015574.94	CDOT TYPE 1
209	695594.24	1015536.26	NOT SET FALLS IN RIVER (SET CDOT TYPE 1 REFERENCE POINT 286 & USED CM-MP 243.9)
210	695708.43	1015285.21	NOT SET FALLS IN RIVER (SET CDOT TYPE 1 REFERENCE POINTS 277 & 278 & USED CM-MP 243.9)
211	695810.75	1015092.37	CDOT TYPE 1
212	696160.71	1014952.18	CDOT TYPE 1
213	695880.76	1014881.80	CDOT TYPE 1
214	696189.54	1014790.02	NOT SET FALLS IN STEEP CUT BANK (SET CDOT TYPE 1 REFERENCE POINT 292 & USED CP-MP 243.6)
215	696202.73	1014746.06	NOT SET FALLS IN STEEP CUT BANK (SET CDOT TYPE 1 REFERENCE POINT 293 & USED CP-MP 243.6)
216	695886.31	1014566.35	NOT SET FALLS IN UNSTABLE ROCK FIELD (SET CDOT TYPE 1 REFERENCE POINTS 279 & 280)
217	695805.05	1014376.93	CDOT TYPE 1
218	696093.74	1014250.30	NOT SET FALLS IN STEEP UNSAFE SLOPE (SET CDOT TYPE 1 REFERENCE POINTS 294 & 295)
219	696056.29	1014207.46	NOT SET FALLS IN STEEP UNSAFE SLOPE (SET CDOT TYPE 1 REFERENCE POINTS 295 & 296)
220	696002.71	1014142.25	NOT SET FALLS IN STEEP UNSAFE SLOPE (SET CDOT TYPE 1 REFERENCE POINTS 295 & 296)
221	695796.57	1013715.64	NOT SET FALLS IN STEEP CUT BANK (SET CDOT TYPE 1 REFERENCE POINTS 299 & 300)
222	695506.45	1013632.25	CDOT TYPE 1
223	695766.77	1013564.96	NOT SET FALLS ON UNSTABLE BIG ROCK (SET CDOT TYPE 1 REFERENCE POINTS 297 & 298)
224	695734.47	1013565.00	NOT SET FALLS IN STEEP CUT BANK (SET CDOT TYPE 1 REFERENCE POINTS 297 & 298)
225	695498.97	1013565.29	NOT SET FALLS IN RIVER (SET CDOT TYPE 1 REFERENCE POINTS 281 & 282)
226	695487.97	1013565.31	NOT SET FALLS IN RIVER (SET CDOT TYPE 1 REFERENCE POINTS 281 & 282)
227	695846.00	1012825.32	CDOT TYPE 1
228	695842.55	1012823.51	CDOT TYPE 1
229	695606.80	1012699.90	CDOT TYPE 1
230	695778.80	1012430.77	CDOT TYPE 1
231	695843.12	1012339.44	CDOT TYPE 1
232	695884.32	1012246.24	CDOT TYPE 1
233	696376.39	1012065.29	CDOT TYPE 1
234	696789.56	1011594.47	NOT SET FALLS IN FACE OF ROCK WALL (SET CDOT TYPE 1 REFERENCE POINT 283 & USED CP-MP 243.1)
238	696250.13	1011719.39	NOT SET FALLS IN RIVER (SET CDOT TYPE 1 REFERENCE POINT 288 & USED FND. CDOT MON. 3085)
239	696539.73	1010867.12	CDOT TYPE 1
240	696706.32	1010149.44	CDOT TYPE 1
241	696964.23	1010384.96	CDOT TYPE 1
242	696958.89	1010301.94	CDOT TYPE 1
244	697011.83	1010156.66	CDOT TYPE 1
245	696811.54	1009600.70	CDOT TYPE 1
246	696657.01	1009452.95	CDOT TYPE 5 (ROCK CAP)
247	696467.97	1009709.55	CDOT TYPE 1
248	696358.70	1009685.93	CDOT TYPE 1
249	696635.03	1009433.87	CDOT TYPE 1
250	696500.26	1009305.83	CDOT TYPE 1
251	696113.64	1009357.04	NOT SET FALLS IN UNSTABLE ROCK FIELD (SET CDOT TYPE 1 REFERENCE POINT 289 & USED CP MP 242.5)
252	695984.86	1008878.34	CDOT TYPE 1
253	695978.89	1008812.11	CDOT TYPE 1
254	696351.76	1008841.50	CDOT TYPE 5 (ROCK CAP)
255	696387.22	1008659.01	CDOT TYPE 1
256	696041.21	1008582.10	NOT SET FALLS IN STEEP ROCK SLOPE (SET CDOT TYPE 1 REFERENCE POINTS 301 & 302)
257	696395.74	1008623.73	CDOT TYPE 1
258	696139.61	1008281.29	CDOT TYPE 1
259	696455.52	1008316.59	CDOT TYPE 1
260	696460.38	1008112.65	CDOT TYPE 1

TABULATION OF RIGHT OF WAY MARKERS SET

POINT	NORTHING	EASTING	DESCRIPTION
261	696045.22	1007873.77	NOT SET FALLS IN UNSTABLE ROCK FIELD (SET CDOT TYPE 1 REFERENCE POINT 290 & USED 264)
262	696444.82	1007797.43	NOT SET FALLS IN VERTICAL ROCK FACE (SET CDOT TYPE 1 REFERENCE POINT 290 & USED 264)
263	696357.76	1007342.18	CDOT TYPE 5 (ROCK CAP)
264	696178.83	1007630.90	CDOT TYPE 1
265	696318.91	1007298.72	NOT SET FALLS IN STEEP UNSAFE SLOPE (SET CDOT TYPE 1 REFERENCE POINT 291 & USED 263)
266	696224.99	1006807.62	NOT SET FALLS IN STEEP UNSAFE SLOPE (SET CDOT TYPE 1 REFERENCE POINTS 307 & 309)
267	695990.99	1006648.70	CDOT TYPE 1
268	695932.06	1006659.97	NOT SET FALLS AT EDGE OF RIVER (SET CDOT TYPE 1 REFERENCE POINT 308 & USED 267)
269	696304.41	1006690.63	NOT SET FALLS IN STEEP UNSAFE SLOPE (SET CDOT TYPE 1 REFERENCE POINTS 307 & 309)
270	696255.75	1006436.14	NOT SET FALLS IN STEEP ROCK FACE (SET CDOT TYPE 1 REFERENCE POINTS 309 & 310)
271	696169.68	1006354.54	NOT SET FALLS IN STEEP ROCK FACE (SET CDOT TYPE 1 REFERENCE POINTS 311 & CDOT TYPE 5 312)
272	696181.54	1006110.53	CDOT TYPE 1
273	696161.56	1006109.56	CDOT TYPE 1
274	696163.62	1006067.21	CDOT TYPE 1
275	695803.49	1005990.19	CDOT TYPE 5 (ROCK CAP)
276	696164.66	1005984.68	CDOT TYPE 1
277	695655.01	1015285.10	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 210
278	695708.48	1015219.34	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 210
279	695922.91	1014569.41	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 216
280	695889.23	1014492.74	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 216
281	695482.01	1013571.51	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 225 & 226
282	695459.30	1013536.89	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 225 & 226
283	696805.95	1011539.83	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 234
284	696436.63	1017409.20	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 200
285	696396.67	1017232.69	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 200
286	695657.38	1015611.77	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 209
287	695638.35	1016098.64	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 206
288	696185.84	1011718.16	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 238
289	696257.68	1009389.24	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 251
290	696295.25	1008015.41	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 261 & 262
291	696188.75	1007489.20	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 265
292	696212.14	1014792.52	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 214
293	696226.26	1014742.16	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 215
294	696104.26	1014330.43	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 218
295	696041.04	1014257.63	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 218 & 219 & 220
296	695965.38	1014153.94	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 219 & 220
297	695777.30	1013554.52	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 223 & 224
298	695769.75	1013568.60	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 223 & 224
299	695835.09	1013746.36	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 221
300	695816.28	1013697.78	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 221
301	696123.15	1008703.38	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 256
302	696192.58	1008479.69	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 256
303	696496.49	1017141.30	CDOT TYPE 5 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 201
304	696351.29	1016850.08	CDOT TYPE 5 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 201 & 202
305	696134.64	1016501.79	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 202 & 205
306	695837.41	1016123.92	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 205
307	695993.71	1006744.19	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 266 & 269
308	695944.02	1006687.04	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 268
309	696221.93	1006469.78	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 266 & 269 & 270
310	696239.24	1006412.54	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 270
311	696102.47	1006288.59	CDOT TYPE 1 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 271
312	696134.59	1006400.93	CDOT TYPE 5 REFERENCE MONUMENT - SET AS REFERENCE POINT FOR 271

COLORADO DEPARTMENT OF TRANSPORTATION



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Sheet Revisions

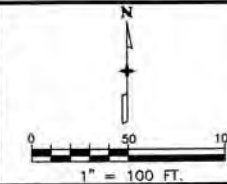
Sheet Revisions

Sheet Revisions

Right of Way Plans

PLAN SHEET

Project Number: IM 0703-244 (SEGMENT 4)
Project Location: I 70 (MP 242.1 to MP 244.2)
Project Location: Twin Tunnels - Hidden Valley - Kermits
Project Code: Last Mod. Date Subset Sheets Sheet No. Total No. of Sheets
12691 July 9, 2002 of 5 13



SW 1/4
SECTION 32
T 3 S R 72 W

2-A
REC. # 13117
BOOK 263 PAGE 327

TIE TO POB 2Rev FROM W 1/4 COR.
N00°52'27"W 574.29'(M)
N00°41'30"W 574.29'(R)

RECORD
R = 1196.0'
L = 84.2'
CH = N89°09'00"W
CL = 84.2'
MEASURED
Δ = 03°57'17"
R = 1196.00'
L = 82.55'
CH = S89°16'44"E
CL = 82.54'

TIE TO POB 2-A FROM W 1/4 COR.
N33°37'53"W 683.63'(M)
N33°35'30"W 684.10'(R)

N43°33'30"E 118.60'(R)
N43°28'25"E 118.60'(M)

S87°08'00"E 42.40'(R)
S87°13'05"E 42.40'(M)

S87°08'00"E 244.30'(R)
S87°13'05"E 244.30'(M)

N02°46'55"E 20.00'(M)
N02°52'00"E 20.00'(R)

270 NOT SET
FALLS IN STEEP ROCK FACE
SET 309 & 310 AS
REFERENCE MONUMENTS

271 NOT SET
FALLS IN STEEP ROCK FACE
SET 311 & 312 AS
REFERENCE MONUMENTS

N55°01'51"E 28.80'
N44°50'54"W 47.70'

N79°15'30"E 259.10'(R)
N79°10'25"E 259.10'(M)

269 NOT SET
FALLS IN STEEP UNSAFE SLOPE
SET 307 & 309 AS
REFERENCE MONUMENTS

S55°44'30"E 141.40'(R)
S55°49'35"E 141.40'(M)

266 NOT SET
FALLS IN STEEP UNSAFE SLOPE
SET 307 & 309 AS
REFERENCE MONUMENTS

N79°15'30"E 500.00'(R)
N79°10'25"E 500.00'(M)

2Rev
REC. # 12500
BOOK 261 PAGE 385

BEGIN ROW RETRACEMENT STATION 165+39.14
I 70-3(1) 250 = STATION 165+39.14 IM 0703-244
(SEGMENT 4) MP 242.1 TO MP 244.2
NOTE: FOR CONTINUATION OF EXISTING I-70 R.O.W.
TO THE WEST SEE IM 0703-244 (SEGMENT 3).
CLEAR CREEK COUNTY RECORDS.

S02°52'27"E 361.21'(M)
S00°41'30"E 361.30'(R)

I-70 WEST BOUND

I-70 EAST BOUND

CLEAR CREEK

1 Rev
REC. # 12559
BOOK 261 PAGE 430

EXISTING ROW 2001

CM-MP 242.1

SW 1/4
SECTION 32
T 3 S R 72 W

268 NOT SET
FALLS AT EDGE OF RIVER
SET 308 & USED 267 AS
REFERENCE MONUMENTS

LEGEND

- INDICATES ALIQUOT CORNER
- INDICATES SURVEY CONTROL MONUMENT
(MILE POST CORRESPONDS TO POINT NUMBER)
- INDICATES SET CDOT R.O.W. MONUMENT
(SEE SHEET 4A FOR TYPE OF MONUMENT SET)
- INDICATES FOUND MONUMENT ACCEPTED AS
AS THE TRUE POSITION REPRESENTING THE
PRESENT R.O.W. LINE.
(SEE SHEET 3C FOR DESCRIPTION)
- INDICATES FOUND MONUMENT NOT ACCEPTED
AS THE TRUE POSITION REPRESENTING THE
PRESENT R.O.W. LINE.
(SEE SHEET 3C FOR DESCRIPTION)
- INDICATES FOUND MONUMENT NOT HELD
IN THE R.O.W. LINE CALCULATION.
(SEE SHEET 3C FOR DESCRIPTION)
- 1-A
REC. #
BOOK PAGE
- INDICATES CDOT PARCEL NUMBER
RECEPTION NUMBER & BOOK PAGE

COLORADO DEPARTMENT OF TRANSPORTATION



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Aurora, CO 80011
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Right of Way Plans Unit: Kevin A. Williams, PLS

Sheet Revisions

Sheet Revisions

Sheet Revisions

Right of Way Plans

PLAN SHEET

Project Number: IM 0703-244 (SEGMENT 4)

Project Location: I 70 (MP 242.1 to MP 244.2)

Project Location: Twin Tunnels - Hidden Valley - Kermits

Project Code	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
12891	July 9, 2002	of	6	13

MEASURED

$\Delta = 09^{\circ}23'28''$

$R = 1246.00'$

$L = 204.23'$

$CH = S88^{\circ}38'05''E$

$CL = 204.00'$

RECORD

$R = 1246.0'$

$L = 204.2'$

$CH = S88^{\circ}33'00''E$

$CL = 204.00'$

SW 1/4
SECTION 32
T 3 S R 72 W

262 NOT SET
FALLS IN UNSTABLE ROCK FIELD
SET 290 & USED 264 AS
REFERENCE MONUMENTS

N87°15'30"E 315.60'(R)
N87°10'25"E 315.60'(M)
EXISTING ROW 2001

S78°54'00"E 312.90'(R)
S78°59'05"E 312.90'(M)
205.20'(M)
205.20'(R)

N48°17'30"E 58.30'(R)
N48°12'25"E 58.30'(M)

N79°15'30"E 463.50'(R)
N79°10'25"E 463.50'(M)

265 NOT SET
FALLS IN STEEP UNSAFE SLOPE
SET 291 & USED 263 AS
REFERENCE MONUMENTS

N79°15'30"E 500.00'(R)
N79°10'25"E 500.00'(M)

EAST PORTAL
TWIN TUNNELS

2Rev

REC. # 12500
BOOK 261 PAGE 385

EXISTING ROW 2001

LEGEND

◆ INDICATES ALIQUOT CORNER

▲ INDICATES SURVEY CONTROL MONUMENT
(MILE POST CORRESPONDS TO POINT NUMBER)

● INDICATES SET CDOT R.O.W. MONUMENT
(SEE SHEET 4A FOR TYPE OF MONUMENT SET)

○ INDICATES FOUND MONUMENT ACCEPTED AS
AS THE TRUE POSITION REPRESENTING THE
PRESENT R.O.W. LINE.
(SEE SHEET 3C FOR DESCRIPTION)

* ○ INDICATES FOUND MONUMENT NOT ACCEPTED
AS THE TRUE POSITION REPRESENTING THE
PRESENT R.O.W. LINE.
(SEE SHEET 3C FOR DESCRIPTION)

○ INDICATES FOUND MONUMENT NOT HELD
IN THE R.O.W. LINE CALCULATION.
(SEE SHEET 3C FOR DESCRIPTION)

1-A INDICATES CDOT PARCEL NUMBER
RECEPTION NUMBER & BOOK PAGE

REC. #
BOOK PAGE

SW 1/4
SECTION 32
T 3 S R 72 W

261 NOT SET
FALLS IN UNSTABLE ROCK FIELD
SET 290 & USED 264 AS
REFERENCE MONUMENTS

MEASURED

$\Delta = 61^{\circ}45'41''$

$R = 407.50'$

$L = 439.26'$

$CH = N76^{\circ}57'33''E$

$CL = 418.30'$

RECORD

$R = 407.5'$

$L = 439.3'$

$CH = N77^{\circ}30'00''E$

$CL = 418.3'$

CLEAR CREEK

FRONTAGE ROAD

CM-MP 242.4

S71°53'11"E 316.50'(M)
S71°37'00"E 316.50'(R)

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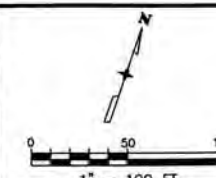
Sheet Revisions

Sheet Revisions

Right of Way Plans

PLAN SHEET

Project Number: IM 0703-244 (SEGMENT 4)
Project Location: I 70 (MP 242.1 to MP 244.2)
Project Location: Twin Tunnels - Hidden Valley - Kermits
Project Code: Last Mod. Date Subset Sheets Sheet No. Total No. of Sheets
12891 July 9, 2002 of 7 13



LEGEND

- ◆ INDICATES ALIQUOT CORNER
- ▲ INDICATES SURVEY CONTROL MONUMENT (MILE POST CORRESPONDS TO POINT NUMBER)
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- (1-A) INDICATES CDOT PARCEL NUMBER RECEPTION NUMBER & BOOK PAGE

MEASURED
Δ = 46°35'42"
R = 616.30'
L = 501.20'
CH = N72°15'55"E
CL = 487.50'

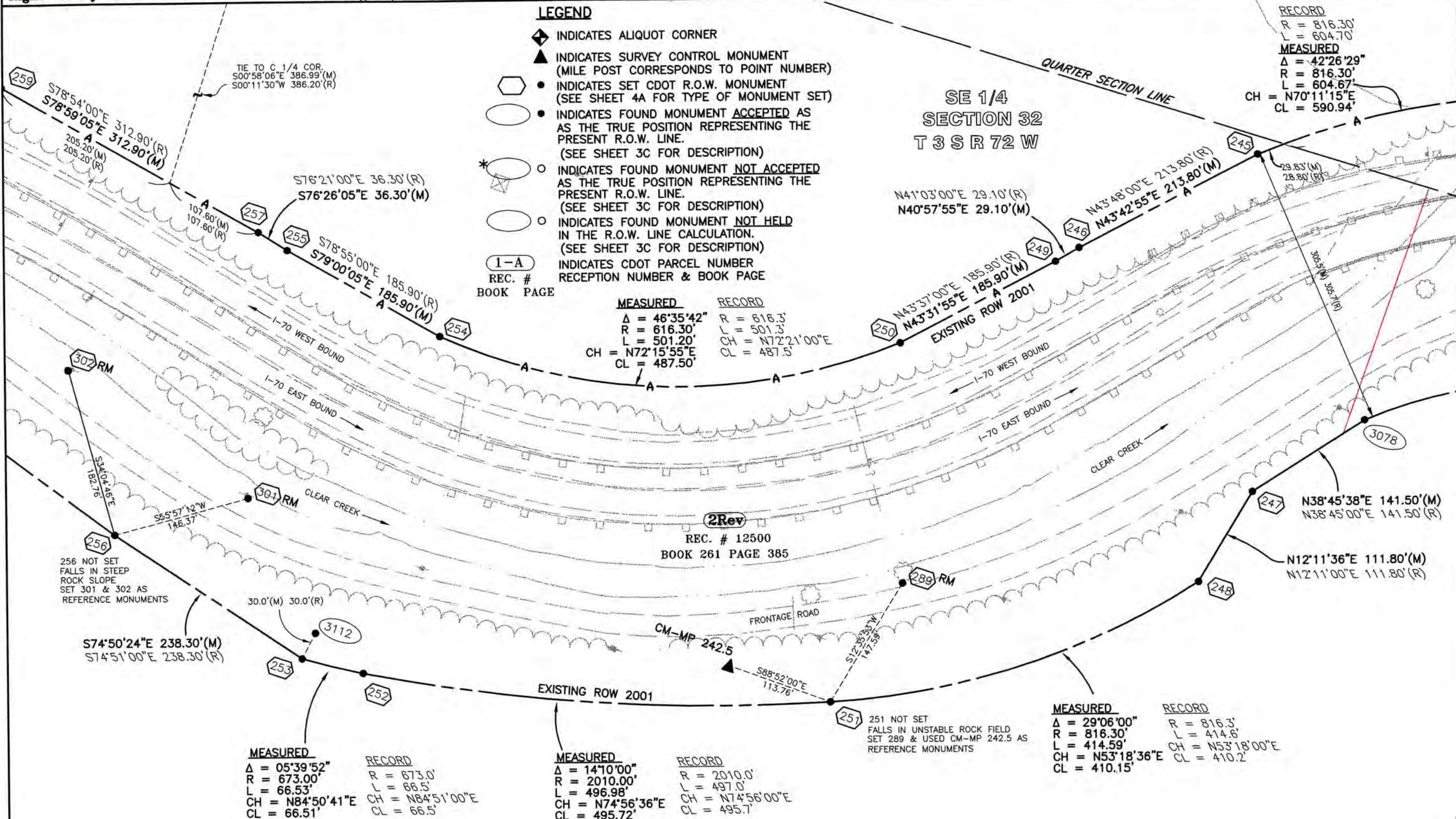
RECORD
R = 616.3'
L = 501.3'
CH = N72°21'00"E
CL = 487.5'

RECORD

R = 816.30'
L = 604.70'

MEASURED

Δ = 42°26'29"
R = 816.30'
L = 604.67'
CH = N70°11'15"E
CL = 590.94'



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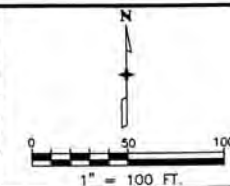
Sheet Revisions

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Right of Way Plans

PLAN SHEET

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12691 July 9, 2002 of 8 13



LEGEND

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- 1-A INDICATES CDOT PARCEL NUMBER RECEPTION NUMBER & BOOK PAGE

NE 1/4
SECTION 32
T 3 S R 72 W

RECORD

R = 668.60'
L = 83.20'

MEASURED

Δ = 07°08'03"
R = 668.60'
L = 83.25'
CH = N86°19'08"E
CL = 83.20'

TIE TO POB 4A FROM E 1/4 COR.
S80°38'09"E 876.18'(M)
S80°32'00"E 876.10'(R)

TIE TO POB 5Rev4 FROM E 1/4 COR.
S82°45'49"E 862.93'(M)
S82°35'30"E 863.3'(R)

QUARTER SECTION LINE

I-70 WEST BOUND

I-70 EAST BOUND

I-70 OFF RAMP

FRONTAGE ROAD

FRONTAGE ROAD

I-70 ON RAMP

4A
REC. # 13889
BOOK 264 PAGE 472

S83°15'30"E 28.70'(R)
S83°17'57"E 28.55'(M)

5Rev4
REC. # 14631
BOOK 265 PAGE 593

S81°01'30"E 110.00'(R)
S81°44'30"E 109.60'(M)

CM-MP 242.7

4Rev
REC. # 13888
BOOK 264 PAGE 470

S14°00'52"E 34.90'(M)
S13°51'00"E 33.80'(R)

7Rev
REC. # 14057
BOOK 265 PAGE 117

S85°01'10"E 171.37'(M)
S84°50'00"E 171.20'(R)

MEASURED
Δ = 42°57'18"
R = 510.60'
L = 382.80'
CH = N69°58'44"E
CL = 373.90'

RECORD
R = 510.6'
L = 384.9'

SE 1/4
SECTION 32
T 3 S R 72 W

8Rev3
REC. # 14047
BOOK 265 PAGE 113

EXISTING ROW 2001
S80°39'32"E 360.66'(M)
S80°30'30"E 361.50'(R)

9Rev2
REC. # 14630
BK 265 PG 590

9-A
REC. # 14211
BK 265 PG 234

S75°16'49"E 602.37'(M)
S75°19'30"E 603.50'(R)
421.60'(R)
421.18'(M)

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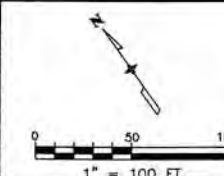
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Right of Way Plans

PLAN SHEET

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Project Location: I 70 (MP 242.1 to MP 244.2)
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NW 1/4
SECTION 33
T 3 S R 72 W

SW 1/4
SECTION 33
T 3 S R 72 W

HIDDEN VALLEY
MAINTENANCE SITE
ACQUIRED WITH STATE FUNDS
ON PROJ. PIC51-003
CODE: 10763 - JAN 95
0.548 ACRES - REVISED
JULY 96 TO 1.559 ACRES

TIE FROM 1/16 COR.
N00°24'32"W 695.38'(M)
N00°46'30"E 696.00'(R)

1
REC. # 154080
BK 484 PG 987

MEASURED
Δ = 33°12'22"
R = 623.00'
L = 361.06'
CH = S74°21'26"E
CL = 356.03'

MEASURED
Δ = 12°55'58"
R = 623.00'
L = 140.62'
CH = S50°47'27"E
CL = 140.33'

RECORD
R = 673.0'
L = 140.1'
CH = S51°02'30"E
CL = 139.8'

MEASURED
Δ = 10°10'07"
R = 2815.00'
L = 499.59'
CH = S49°46'01"E
CL = 498.94'

RECORD
R = 2815.0'
L = 499.2'
CH = S49°41'00"E
CL = 498.8'

R.O.W. on U.S. 6 & 40
1/16TH SECTION LINE
435.40'(M)
435.10'(R)

234 NOT SET
FALLS IN FACE OF ROCK WALL
SET 283 & USED CM-MP 243.1 AS
REFERENCE MONUMENTS

S44°36'00"E 128.00'(R)
S44°41'02"E 127.86'(M)

EXISTING ROW 2001

EXIT

12Rev3

REC. # 14166
BOOK 265 PAGE 193

9Rev2

REC. # 14630
BOOK 265 PAGE 590

CLEAR CREEK

238 NOT SET
FALLS IN RIVER
SET 288 & USED 3085 AS
REFERENCE MONUMENTS

EXISTING ROW 2001

S55°13'35"E 641.40'(M)
S55°08'30"E 641.40'(R)

LEGEND

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- ▲ INDICATES SURVEY CONTROL MONUMENT
(MILE POST CORRESPONDS TO POINT NUMBER)
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(SEE SHEET 3C FOR DESCRIPTION)
- 1-A INDICATES CDOT PARCEL NUMBER
REC. # RECEPTION NUMBER & BOOK PAGE

SW 1/4
SECTION 33
T 3 S R 72 W

S66°09'05"E 101.90'(M)
S66°04'00"E 101.90'(R)

9-A
REC. # 14211
BK 265 PG 234

S75°16'49"E 602.37'(M)
S75°19'30"E 603.50'(R)

S45°53'02"E 201.00'(M)
S45°24'30"E 200.90'(R)

N88°27'19"E 125.41'(M)
N88°35'30"E 125.00'(R)

FRONTAGE ROAD

FRONTAGE ROAD

I-70 ON RAMP

I-70 EAST BOUND

I-70 WEST BOUND

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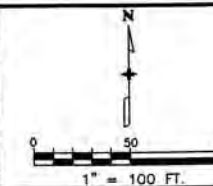
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Right of Way Plans

PLAN SHEET

Project Number: IM 0703-244 (SEGMENT 4)
Project Location: I 70 (MP 242.1 to MP 244.2)
Project Location: Twin Tunnels - Hidden Valley - Kermits
Project Code: Last Mod. Date: Subst. Sheets: Sheet No. Total No. of Sheets
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REFERENCES FOR POINTS 223 - 226

LINE	BEARING	DISTANCE
297RM TO 223	S44°45'12"E	14.83'
298RM TO 223	S50°44'26"W	4.71'
297RM TO 224	S13°44'53"E	44.09'
298RM TO 224	S05°50'07"W	35.46'
281RM TO 225	N20°07'11"W	18.07'
282RM TO 225	N35°35'48"E	48.80'
281RM TO 226	N46°06'30"W	8.61'
282RM TO 226	N44°44'18"E	40.37'

SW 1/4
SECTION 33
T 3 S R 72 W

MEASURED

Δ = 42°30'32"
R = 1026.00'
L = 761.21'
CH = S83°53'10"E
CL = 743.87'

RECORD

R = 1026.0'
L = 779.2'
CH = S84°01'00"E
CL = 760.7'

LEGEND

- ◆ INDICATES ALIQUOT CORNER
- ▲ INDICATES SURVEY CONTROL MONUMENT (MILE POST CORRESPONDS TO POINT NUMBER)
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- 1-A INDICATES CDOT PARCEL NUMBER RECEPTION NUMBER & BOOK PAGE

SW 1/4
SECTION 33
T 3 S R 72 W

NOTE: THE EXISTING "N-S 1/4 LINE OF SECTION 33" ESTABLISHED FROM EXISTING FOUND ALIQUOT MONUMENTS DOES NOT MATCH THE PROTRACTED "N-S 1/4 LINE OF SECTION 33" ESTABLISHED ON THE F.A.P. 170-3(1)250 BY APPROXIMATELY 23 FEET IN AN E-W DIRECTION AT THE C1/4 CORNER OF SAID SECTION 33. THIS R.O.W. PLAN HELD THE CALL IN THE DEEDS 16Rev3 AND 17Rev TO THE "N-S 1/4 LINE OF SECTION 33" AND USED SAID LINE AS IT EXIST AT THE TIME OF THIS SURVEY. THEREFORE THE CLOSING DISTANCES VARY FROM RECORD DISTANCES AS SHOWN.

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Right of Way Plans

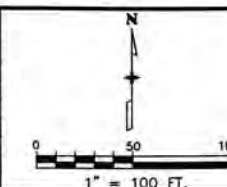
PLAN SHEET

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Project Location: Twin Tunnels - Hidden Valley - Kermits

Project Code: Last Mod. Date Subset Sheets Sheet No. Total No. of Sheets
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SE 1/4
SECTION 33
T 3 S R 72 W

RECORD

R = 1382.5'
L = 84.5'
CH = N50°32'00"E
CL = 84.4'

MEASURED

Δ = 03°29'54"
R = 1382.50'
L = 84.41'
CH = N50°35'32"E
CL = 84.40'

219 & 220 NOT SET
FALLS IN STEEP UNSAFE SLOPE
SET 295 & 296 AS
REFERENCE MONUMENTS

N48°47'00"E 56.90'(R)
N48°50'32"E 56.90'(M)

MEASURED

Δ = 57°31'10"
R = 527.50'
L = 529.56'
CH = N77°36'02"E
CL = 507.60'

RECORD

R = 527.5'
L = 529.5'
CH = N77°32'30"E
CL = 507.6'

MEASURED

Δ = 00°40'46"
R = 3870.00'
L = 45.90'
CH = S73°17'58"E
CL = 45.90'

RECORD

R = 3870.0'
L = 45.9'
CH = S73°21'30"E
CL = 45.9

RECORD

R = 816.3'
L = 165.0'
CH = S79°58'30"E
CL = 164.7'

MEASURED

Δ = 11°34'48"
R = 816.30'
L = 164.98'
CH = S79°54'58"E
CL = 164.70'

EXISTING ROW 2001

CM-MP 243.6

17Rev
BOOK 264 PAGE 220

CLEAR CREEK

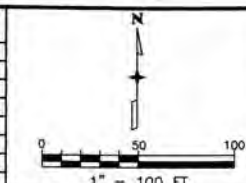
BIKE PATH

LEGEND

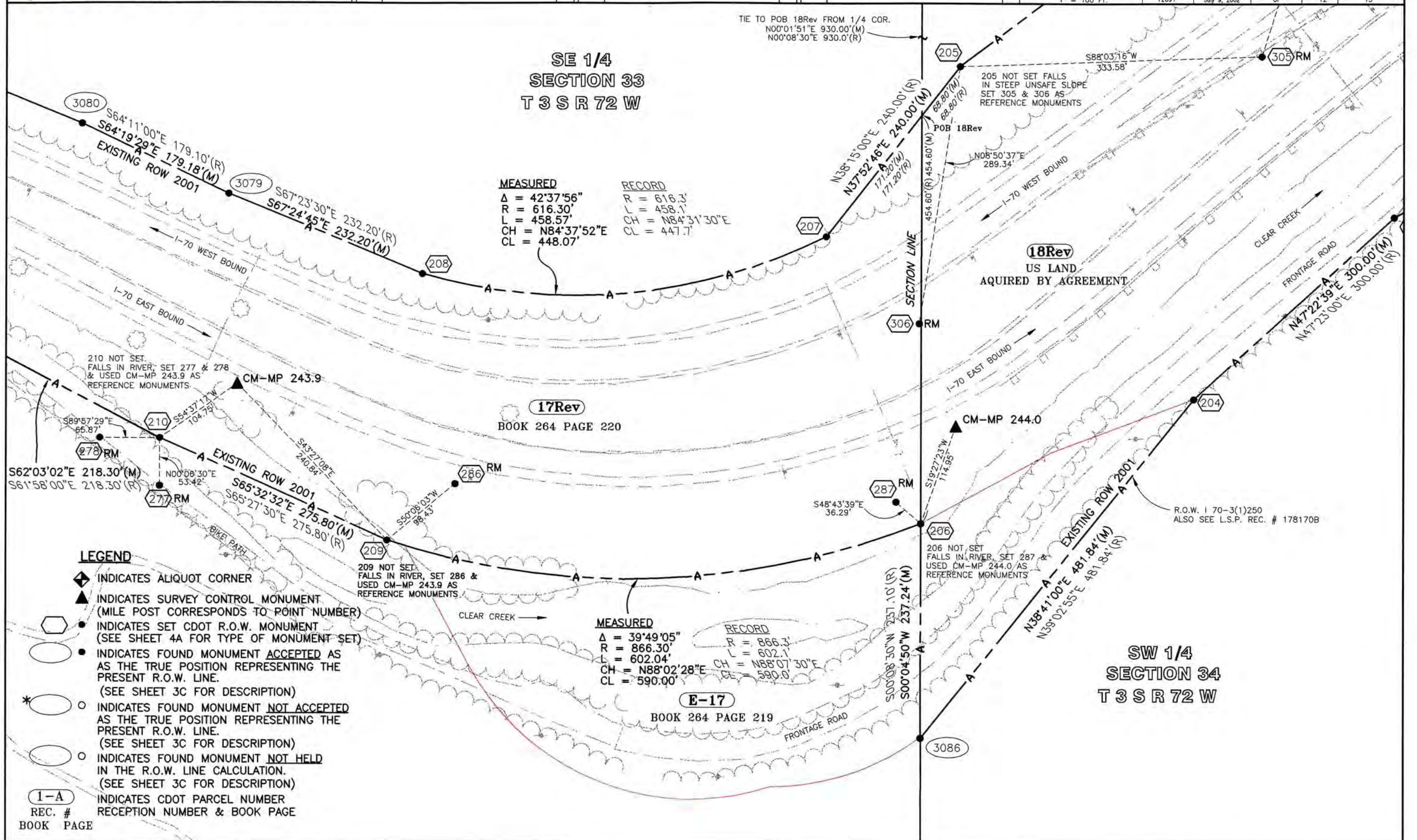
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REC. #
BOOK PAGE

SE 1/4
SECTION 33
T 3 S R 72 W

Right of Way Plans Unit: Kevin A. Williams, PLS

[illegible][illegible][illegible]

Right of Way Plans				
PLAN SHEET				
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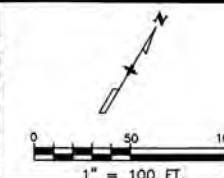
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Right of Way Plans

PLAN SHEET

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Project Code: 12891 Last Mod. Date: July 9, 2002 Subset Sheets: 13 of 13 Sheet No.: 13 Total No. of Sheets: 13



SW 1/4
SECTION 34
T 3 S R 72 W

