

SURVEY CONTROL DIAGRAM

FOR THE COLORADO DEPARTMENT OF TRANSPORTATION, REGION 3
EAGLE/VAIL HALF-DIAMOND
CDOT PROJECT NUMBER IM 0702-228
LYING IN SECTION 17, TOWNSHIP 5 SOUTH, RANGE 81 WEST,
OF THE 6TH PRINCIPAL MERIDIAN,
COUNTY OF EAGLE, STATE OF COLORADO.

POINT NAME	COLORADO STATE PLANE CENTRAL ZONE			ELLIP		NAVD 88		DESCRIPTION
	LATITUDE(N)	LONGITUDE(W)	HT(M)	CONVERG	SCALE	NORTHING(M)	EASTING(M)	
Woodman	39°37'11.80292"N	106°28'08.00533"W	2318.580	-0°36'40"	0.99997686	503576.002	831211.182	2331.319
T280	39°36'33.30894"N	106°26'58.52248"W	2343.776	-0°35'56"	0.99997519	502371.408	832855.912	2356.5
I2.1	39°37'24.36589"N	106°29'14.32465"W	2295.621	-0°37'22"	0.99997742	503980.454	829633.706	2308.380
GPS008	39°38'51.88928"N	106°31'03.10411"W	2432.163	-0°38'30"	0.99998137	506708.165	827069.732	2445.1
Daley	39°38'24.62763"N	106°32'59.22409"W	2242.400	-0°39'44"	0.99998012	505898.958	824291.721	2255.4
D47Ref	39°37'40.68799"N	106°30'30.36040"W	2270.768	-0°38'10"	0.99997814	504503.719	827825.968	2283.6
689	39°37'20.56574"N	106°29'03.91899"W	2306.866	-0°37'15"	0.99997725	503860.570	829880.594	TYPE 2 MP 168.9
692	39°37'16.16908"N	106°28'51.93106"W	2309.543	-0°37'08"	0.99997705	503721.891	830165.026	TYPE 2 MP 169.2
694	39°37'14.59363"N	106°28'38.31424"W	2308.638	-0°36'59"	0.99997699	503669.806	830489.253	TYPE 2 MP 169.4
695	39°37'16.78897"N	106°28'36.42875"W	2309.360	-0°36'58"	0.99997708	503737.023	830534.949	TYPE 2 MP 169.5
696	39°37'13.15392"N	106°28'25.78002"W	2313.441	-0°36'51"	0.99997692	503622.197	830787.709	TYPE 2 MP 169.6
697	39°37'10.66938"N	106°28'10.77175"W	2317.634	-0°36'42"	0.99997681	503541.749	831144.831	TYPE 2 MP 169.7
699	39°37'08.64302"N	106°27'59.23088"W	2321.968	-0°36'34"	0.99997672	503476.326	831419.412	TYPE 2 MP 169.9
715	39°37'24.02148"N	106°29'47.09592"W	2288.589	-0°37'42"	0.99997740	503978.366	828852.049	TYPE 2 MP 171.5
717	39°37'22.31760"N	106°29'33.13432"W	2290.712	-0°37'34"	0.99997732	503922.176	829184.436	TYPE 2 MP 171.7
719	39°37'21.37593"N	106°29'21.98913"W	2293.877	-0°37'27"	0.99997728	503890.237	829449.916	TYPE 2 MP 171.9
721	39°37'22.08146"N	106°29'10.34756"W	2298.713	-0°37'19"	0.99997731	503908.975	829727.788	TYPE 2 MP 172.1
723	39°37'22.27192"N	106°29'02.45318"W	2299.607	-0°37'14"	0.99997732	503912.807	829916.121	TYPE 2 MP 172.3
724	39°37'21.77831"N	106°28'53.05433"W	2304.038	-0°37'08"	0.99997730	503895.160	830140.106	TYPE 2 MP 172.4
728	39°37'18.61299"N	106°28'34.02234"W	2308.157	-0°36'56"	0.99997716	503792.656	830592.944	TYPE 2 MP 172.75
999	39°37'25.63660"N	106°29'00.39015"W	2308.455	-0°37'13"	0.99997747	504016.036	829966.445	TYPE 2 MP 172.75 N1/4 S17, T5S, R81W

MODIFIED PROJECT COORDINATES (US FEET)

NAME	NORTHING(FT)	EASTING(FT)	ELEV(FT)	DESCRIPTION
300	654154.340	726633.751	7617.7	NE COR S17, T5S, R81W
301	654264.762	721277.503	7540.9	NW COR S17, T5S, R81W
303	651563.492	726681.420	7732.6	E1/4 S17, T5S, R81W
689	653701.451	723719.266	7610.41	MP 168.9
692	653246.297	724652.791	7619.07	MP 169.2
694	653075.351	725716.923	7616.12	MP 169.4
695	653295.963	725866.899	7618.45	MP 169.5
696	652919.097	726696.476	7631.83	MP 169.6
697	652655.061	727868.569	7645.55	MP 169.7
699	652440.339	728769.763	7659.73	MP 169.9
715	654088.064	720343.518	7550.46	MP 171.5
717	653903.645	721434.434	7557.46	MP 171.7
719	653798.819	722305.756	7567.70	MP 171.9
721	653860.320	723217.748	7583.53	MP 172.1
723	653872.896	723835.869	7586.53	MP 172.3
724	653814.978	724571.000	7600.98	MP 172.4
725	653717.006	725117.390	7604.95	MP 172.5
728	653478.554	726057.243	7614.47	MP 172.75
999	654211.700	724001.035	7615.45	N1/4 S17, T5S, R81W

GENERAL NOTES:

- THIS CONTROL SURVEY IS FOR THE USE OF THE COLORADO DEPARTMENT OF TRANSPORTATION. THIS SURVEY IS NOT A COMPLETE BOUNDARY SURVEY.
- NO GUARANTEE AS TO THE ACCURACY OF THE INFORMATION CONTAINED ON THIS DIAGRAM IS EITHER STATED OR IMPLIED UNLESS THIS COPY BEARS AN ORIGINAL SIGNATURE OF THE REGISTERED LAND SURVEYOR HEREON NAMED.
- NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVERED SUCH DEFECT. IN NO EVENT, MAY ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.
- THE GPS FIELD WORK WAS PERFORMED BY JFSA FIELD CREWS IN SEPTEMBER, 2000. VALUES LISTED ON ALL POINTS HEREON WERE DETERMINED BY FAST-STATIC, REAL-TIME KINEMATIC (RTK) GPS AND CONVENTIONAL OBSERVATIONS. FAST-STATIC GPS DATA WAS REDUCED BY AREA SURVEYING CONSULTANTS INC., BASED ON HORIZONTAL DATUM: NAD 83/92
- PRIMARY SURVEY CONTROL PRECISION (FAST STATIC, RTK GPS AND CONVENTIONAL METHODS) COMPUTED TO EXCEED COLORADO DEPARTMENT OF TRANSPORTATION MINIMUM HORIZONTAL CONTROL TOLERANCE FOR TYPE A SURVEY (± 0.10 FEET AT 95% CERTAINTY).
- CONVERSION OF COLORADO STATE PLANE CENTRAL ZONE TO MODIFIED DATUM PLANE COORDINATES (US FEET) WAS MADE USING .99962575 AS AN AVERAGED COMBINED SCALE FACTOR AND 3937/1200 AS THE US FEET TO METER CONVERSION. THEN 1,000,000 SUBTRACTED FROM THE NORTHING AND 2,000,000 FROM THE EASTING.
- TOPOGRAPHIC AND NATURAL FEATURES SHOWN ON THIS DOCUMENT ARE FOR ORIENTATION PURPOSES ONLY.
- MONUMENT RECORDS HAVE BEEN FILED PER COLORADO REVISED STATUTES 38-53-103.
- BASIS OF ELEVATIONS: ELEVATIONS ARE BASED ON USC&GS BENCHMARK E 47, HAVING A NAVD 88 ELEVATION OF 7696.79 FEET. THE BENCHMARK IS A STANDARD BRASS DISK STAMPED: E 47 1934, SET IN THE TOP OF THE WEST END OF THE NORTH CONCRETE BRIDGE ABUTMENT OF BRIDGE 303.96 OVER THE EAGLE RIVER.

MARK IS 2.1 MILES NORTHWEST ALONG THE DENVER AND RIO GRANDE WESTERN RAILROAD FROM THE ROUND HOUSE AT WINTURN.

SURVEYOR'S CERTIFICATION

I, RAND L. SHELDON, A REGISTERED LAND SURVEYOR IN THE STATE OF COLORADO, HEREBY CERTIFY THAT THE FIELD WORK, AS WELL AS, THIS SURVEY CONTROL DIAGRAM WERE DONE BY ME, OR UNDER MY DIRECT RESPONSIBILITY, SUPERVISION, AND CHECKING, FOR AND ON BEHALF OF THE COLORADO DEPARTMENT OF TRANSPORTATION, REGION NO. 3.

RAND L. SHELDON, P.L.S. # 34173

COUNTY SURVEYORS DEPOSIT

DEPOSITED THIS _____ DAY OF _____ AD. 19____ AT _____

O'CLOCK ____ M. IN BOOK _____ AT PAGE _____ OF THE COUNTY

SURVEYOR'S LAND SURVEY PLATS AND RIGHTS OF WAY SURVEYS, EAGLE COUNTY COLORADO.

RECEPTION No. _____

ASSIGNED BY _____

TITLE _____

Computer File Information			Sheet Revisions			As Constructed		Control Survey Diagram		Project No./Code
Creation Date:	05/10/2001	Initials: RLS	(R-1)			No Revisions:				IM 0702-228
Last Modification Date:	XX/XX/XX	Initials: XX	(R-2)			Revised:		Surveyor:	DLJ	13229
Full Path:	\\Sv-server\D-DRIVE\00064\CONTROL		(R-3)			Void:		Detailer:	RLS	
Drawing File Name:	CDOT-CTL.DWG		(R-4)					Sheet Subset:	SURVEY	Subset Sheets: 1 of 2
Acad Ver.: R2000	Scale: 1:1	Units: FEET	(R-5)							Sheet Number

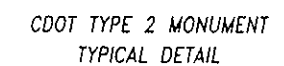
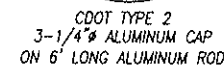
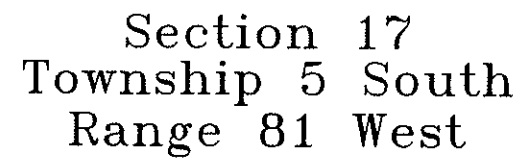


J. F. Sato and Associates
5898 South Rapp Street
Littleton, Colorado 80120
Phone: (303) 797-1200 FAX: (303) 797-1187

REGION 3

JM

FOR THE COLORADO DEPARTMENT OF TRANSPORTATION, REGION 3
EAGLE/VAIL HALF-DIAMOND
CDOT PROJECT NUMBER IM 0702-228
LYING IN SECTION 17, TOWNSHIP 5 SOUTH, RANGE 81 WEST,
OF THE 6TH PRINCIPAL MERIDIAN,
COUNTY OF EAGLE, STATE OF COLORADO.

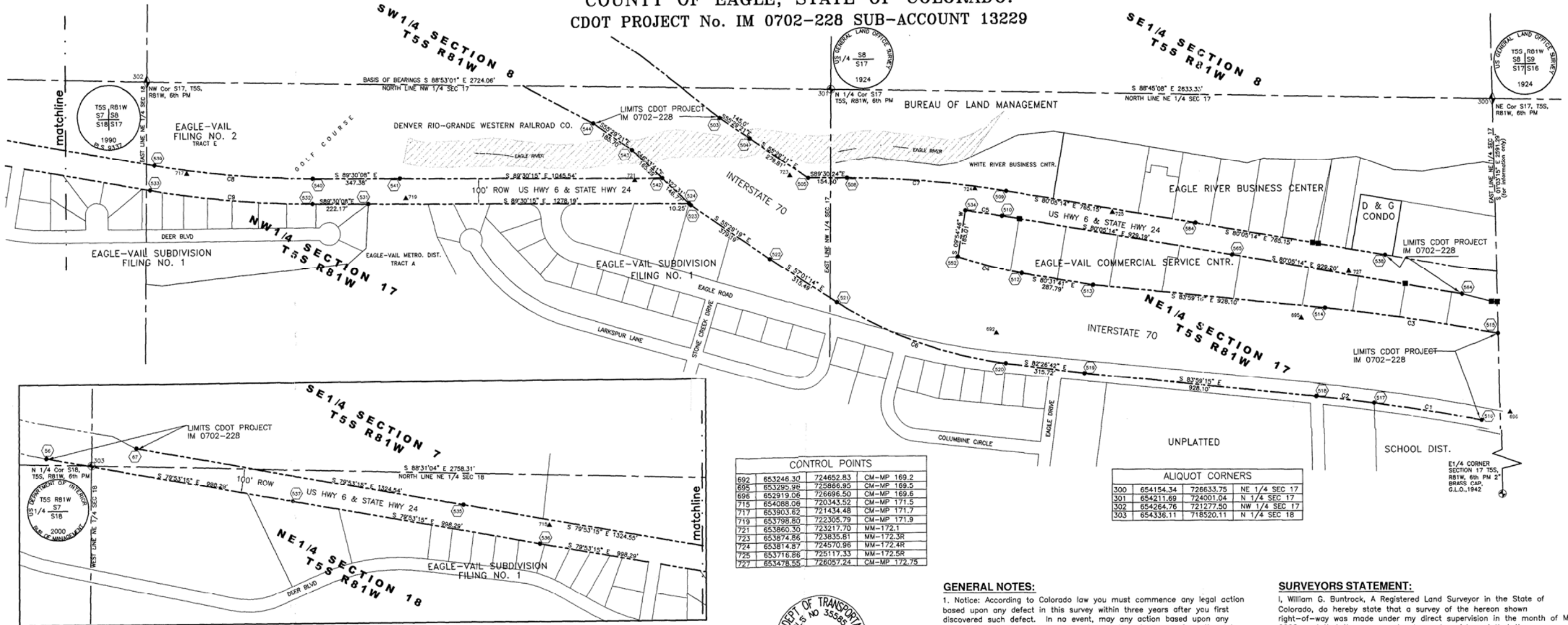


Computer File Information			Sheet Revisions			Colorado Department of Transportation			As Constructed		Control Survey Diagram			Project No./Code	
Creation Date:	05/10/2001	Initials: RLS	(R-1)			 J. F. Sato and Associates 5898 South Rapp Street Littleton, Colorado 80120 Phone: (303) 797-1200 FAX: (303) 797-1187	No Revisions:					IM 0702-228			
Last Modification Date:	XX/XX/XX	Initials: XX	(R-2)				Revised:								
Full Path:	\\Sv-server\D-DRIVE\00064\CONTROL		(R-3)				Void:								
Drawing File Name:	CDOT-CTL.DWG		(R-4)				Surveyor: DLJ								
Acad Ver.: R2000	Scale: 1:1	Units: FEET	(R-5)				Detailer: RLS								
REGION 3						JM		Sheet Subset: SURVEY		Subset Sheets: 2 of 2		Sheet Number			

MONUMENTED LAND SURVEY PLAT

Lying in the North 1/2 of Section 17 and the Northeast 1/4 of Section 18,
Township 5 South, Range 81 West, of the 6th Principal Meridian,
COUNTY OF EAGLE, STATE OF COLORADO.

CDOT PROJECT No. IM 0702-228 SUB-ACCOUNT 13229



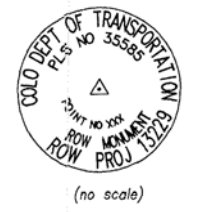
CURVE DATA				
NUMBER	DELTA ANGLE	CHORD DIRECTION	RADIUS	CHORD LENGTH
C1	03°20'18"	S 80°31'58" E	7439.40	433.38
C2	01°47'08"	S 83°05'41" E	7439.40	231.84
C3	08°07'26"	S 81°25'32" E	7789.40	696.59
C4	08°36'59"	S 75°10'46" E	1749.90	263.16
C5	02°13'43"	S 81°12'07" E	3770.00	148.84
C6	22°25'30"	S 69°44'00" E	1623.60	714.60
C7	09°25'00"	S 84°47'45" E	3870.00	636.04
C8	08°37'00"	S 84°41'45" E	3770.00	632.77
C9	09°37'00"	S 84°41'45" E	3870.00	649.55

PROPERTY CONTROL KEY	
Found section corner as described	
Found quarter corner as described	
Set CDOT Type 2 monument	
CDOT control monuments	
Found property corner	
Rebar/Cap PLS 5447	

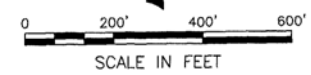
TABULATION OF CDOT ROW MONUMENTS				
COORDINATE DATA IS COLORADO STATE PLANE, CENTRAL ZONE, MODIFIED PROJECT COORDINATES, BASED ON A CONTROL SURVEY AS PART OF CDOT PROJECT NO. IM 0702-228 SUB-ACCOUNT 13229				
NUMBER	DESIGNATION	NORTHING	EASTING	DESCRIPTION
56	MP-171.11R (US-6)	654365.43	718339.97	CDOT TYPE 2 ROW MONUMENT
57	MP-171.18R (US-6)	654403.15	718697.93	CDOT TYPE 2 ROW MONUMENT
58	MP-168.93L (US-6)	654104.62	723557.85	CDOT TYPE 2 ROW MONUMENT
59	MP-168.98L (US-6)	654022.47	723877.33	NOT SET-FALLS IN RIVER
60	MP-169.01L (US-6)	653883.93	723907.89	CDOT TYPE 2 ROW MONUMENT
61	MP-172.34L (US-6)	653862.60	724062.38	CDOT TYPE 2 ROW MONUMENT
62	MP-172.38L (US-6)	653804.97	724695.09	CDOT TYPE 2 ROW MONUMENT
63	MP-172.38R (US-6)	653706.46	724677.88	CDOT TYPE 2 ROW MONUMENT
64	MP-169.21L (US-6)	653479.39	724755.29	CDOT TYPE 2 ROW MONUMENT
65	MP-169.27L (US-6)	653432.03	725039.16	CDOT TYPE 2 ROW MONUMENT
66	MP-169.52L (US-6)	653334.82	725962.16	CDOT TYPE 2 ROW MONUMENT
67	MP-169.58L (US-6)	653231.00	726650.74	CDOT TYPE 2 ROW MONUMENT
68	MP-169.58R (US-6)	652897.59	726583.14	CDOT TYPE 2 ROW MONUMENT
69	MP-169.56R (US-6)	652958.87	726155.66	CDOT TYPE 2 ROW MONUMENT
70	MP-169.52R (US-6)	652886.75	725925.50	CDOT TYPE 2 ROW MONUMENT
71	MP-169.27R (US-6)	653083.98	725025.51	CDOT TYPE 2 ROW MONUMENT
72	MP-169.28R (US-6)	653125.47	724889.53	CDOT TYPE 2 ROW MONUMENT
73	MP-169.28R (US-6)	653373.00	724019.17	CDOT TYPE 2 ROW MONUMENT
74	MP-169.22R (US-6)	653544.73	723754.52	CDOT TYPE 2 ROW MONUMENT
75	MP-168.96R (US-6)	653759.57	723442.06	CDOT TYPE 2 ROW MONUMENT
76	MP-172.14R (US-6)	653785.62	723434.62	CDOT TYPE 2 ROW MONUMENT
77	MP-171.87R (US-6)	653777.68	722156.48	CDOT TYPE 2 ROW MONUMENT
78	MP-171.79R (US-6)	653779.61	721934.32	CDOT TYPE 2 ROW MONUMENT
79	MP-171.67R (US-6)	653839.58	721888.31	CDOT TYPE 2 ROW MONUMENT
80	MP-172.40R (US-6)	653728.89	724532.97	CDOT TYPE 2 ROW MONUMENT
81	MP-171.43L (US-6)	654170.59	720001.89	CDOT TYPE 2 ROW MONUMENT
82	MP-172.42R (US-6)	654014.86	720305.53	CDOT TYPE 2 ROW MONUMENT
83	MP-171.15R (US-6)	654190.14	719322.75	CDOT TYPE 2 ROW MONUMENT
84	MP-172.78L (US-6)	653541.54	726202.55	CDOT TYPE 2 ROW MONUMENT
85	MP-171.67L (US-6)	653938.02	721305.86	CDOT TYPE 2 ROW MONUMENT
86	MP-171.79L (US-6)	653879.60	721935.18	CDOT TYPE 2 ROW MONUMENT
87	MP-171.89L (US-6)	653876.58	722282.55	CDOT TYPE 2 ROW MONUMENT
88	MP-172.12L (US-6)	653867.53	723282.05	CDOT TYPE 2 ROW MONUMENT
89	MP-168.93R (US-6)	653881.18	723208.03	NOT SET-FALLS IN RIVER
90	MP-168.88R (US-6)	654086.39	723055.01	CDOT TYPE 2 ROW MONUMENT
91	MP-169.16R (US-6)	653546.84	724501.12	CDOT TYPE 2 ROW MONUMENT
92	MP-172.84R (US-6)	653366.55	726508.53	CDOT TYPE 2 ROW MONUMENT
93	MP-172.66R (US-6)	653546.51	725983.20	CDOT TYPE 2 ROW MONUMENT
94	MP-172.63L (US-6)	653673.25	725448.82	CDOT TYPE 2 ROW MONUMENT

CONTROL POINTS			
692	653246.30	724652.83	CM-MP 169.2
695	653295.96	725866.95	CM-MP 169.5
696	652919.06	726696.50	CM-MP 169.6
715	654088.06	720343.52	CM-MP 171.5
717	653903.62	721434.48	CM-MP 171.7
719	653798.80	722305.79	CM-MP 171.9
721	653860.30	723217.70	MM-172.1
723	653874.86	723835.81	MM-172.3R
724	653814.87	724570.96	MM-172.4R
725	653716.86	725117.33	MM-172.5R
727	653478.55	726057.24	CM-MP 172.75

ALIQUOT CORNERS			
300	654154.34	726633.75	NE 1/4 SEC 17
301	654211.69	724001.04	N 1/4 SEC 17
302	654264.76	721277.50	NW 1/4 SEC 17
303	654336.11	718520.11	N 1/4 SEC 18



CDOT TYPE 2 MONUMENT
TYPICAL DETAIL
3\" TYP. VARIES
ALUMINUM FINISHED
ROD TOP SECTION
3/4\" ALUMINUM ROD
3 1/4\" ALUMINUM CAP (TYP.)
(LENGTH MAY VARY DUE TO ROCK)
(ROCK CAPS MAY BE HAVE BEEN SET
IF POINT LANDED ON BOULDER)



GENERAL NOTES:

- Notice: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discovered 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 certification shown hereon.
- Any certification expressed or implied herein is invalid without the original signature of William G. Buntrock.
- This survey does not constitute a title search to determine ownership or easements of record. No title commitment was furnished to J.F. Sato and Associates in the preparation of this survey.
- Basis of Bearings: The North line of the Northwest 1/4 of Section 17, Township 5 South, Range 81 West, 6th. P.M. is monumented at the Northwest Corner with a 3 1/4\" diameter aluminum cap stamped PLS 9337 and the North 1/4 corner with a BLM brass cap 1924. Solid line bears N88°53'01\"W, a distance of 2724.06 feet.
- Any person who knowingly removes, alters or defaces any Public Land Survey monument or Land Boundary monument or accessory commits a Class two (2) misdemeanor pursuant to Colorado law.

SURVEYORS STATEMENT:

I, William G. Buntrock, A Registered Land Surveyor in the State of Colorado, do hereby state that a survey of the hereon shown right-of-way was made under my direct supervision in the month of May, 2002, and that the monuments shown do exist, and that the accompanying plat accurately represents the results of said survey, to the best of my knowledge and belief.

WILLIAM G. BUNTROCK, PLS 35585
For and on behalf of J.F. Sato and Associates
5898 South Rapp Street, Littleton, Colorado 80120

RECORDING STATEMENT:

Deposited this _____ day of _____, 20_____, M., in
Book _____ of the Eagle County Clerk and Records Office/Land Survey
Plats at page(s) _____
Reception Number _____

Eagle County Clerk and Recorder



J.F. SATO AND ASSOCIATES
Consulting Engineers
Project Managers, Planners & Surveyors
5898 So. Rapp St. • Littleton, CO 80120 • (303) 797-1200

MONUMENTED LAND SURVEY PLAT			
COLORADO DEPARTMENT OF TRANSPORTATION			
EAGLE/VAIL 1/2 DIAMOND INTERCHANGE			
DATE: 05-23-2002	FIELD: DJ/TR	CHECKED: BB	
SCALE: 1\"=200'	DRAWN: RDR/BB	APPROVED: BB	
PROJECT NO. JF00064	SHEET NO. 1	OF 1	