

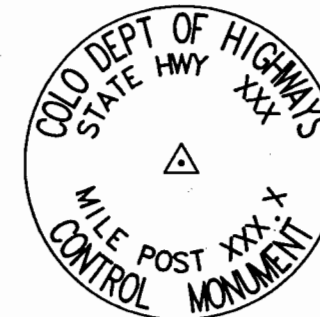
FILING CERTIFICATION: DEPOSITED THIS DAY OF 19 AT M. FOR INFORMATION ONLY IN BOOK OF THE COUNTY LAND SURVEYS/RIGHT OF WAY SURVEYS AT PAGE RECEPTION NUMBER SIGNED DEPT.

Computer File Information		Colorado Department of Transportation Region I Right of Way 18500 E. COLFAX AURORA, CO 80011 Phone: 303-757-9744 FAX: 303-757-9746 Survey Coordinator Joseph P. Conway	Revisions		Revisions		CONTROL SURVEY DIAGRAM PLAN SHEET	
Creation Date: OCT/08/1997 Initials: KAW							NH 0092-014	
Last Modification Date: OCT/29/1997 Initials: KAW							Golden Eagle Rd. - N. in Silverthorne	
Full Path: D:\10582\							Project Code: 10582 Sheet Number:	
Drawing File Name: 10582CSD								
Acad Ver. 12_c4 Scale: 1cm = 30m Units: METERS								

SH 9 MP 103.7 to MP 105.3  
Secs. 26, 35 and 36, T. 4 S., R. 78 W., 6th P.M.  
SUMMIT COUNTY, COLORADO

PROJECT COORDINATE SUMMARY TABLE  
(ADJUSTED FIELD DATA)

POINT NAME	PROJECT COORDINATES		ELEV(m)	DESCRIPTION
	NORTH (m)	EAST (m)		
STA. 1815+39.3	111296.154	102842.163	2647.526	3-1/4" Brass Cap in Range Box
SH 9 CM-MP 103.9	111602.504	102715.986	2642.298	CDOT Type II Control Monument
SH 9 CM-MP 104.1	111920.313	102559.337	2638.861	CDOT Type II Control Monument
SH 9 CM-MP 104.4	112351.541	102337.924	2633.469	CDOT Type II Control Monument
SH 9 CM-MP 104.7	112698.022	102256.080	2631.201	CDOT Type II Control Monument
SH 9 CM-MP 104.9	113052.648	102123.146	2624.349	CDOT Type II Control Monument
SH 9 CM-MP 105.1	113273.630	101970.740	2622.918	CDOT Type II Control Monument
SH 9 CM-MP 105.3	113535.871	101655.752	2622.075	CDOT Type II Control Monument



TYPICAL:  
CM-MP - Control Monuments were 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. flanged aluminum security rod on a 3" X 3/4" dia. smooth aluminum rod.

GEODETIC COORDINATE SUMMARY TABLE  
(ADJUSTED FIELD DATA)

POINT NAME	GEODETIC COORDINATES NAD-83(92) (CHARN)		ELEV. (NAVD '88)m	MAPPING ANGLE	SCALE	NAD 83(92) ZONE 0502		DESCRIPTION
	LATITUDE(N)	LONGITUDE(W)				NORTHING (m)	EASTING (m)	
STA 1815+39.3	39° 39' 22.56708" N	106° 4' 54.06552" W	2647.526	-0° 22' 0.70525"	0.999982802	507325.011	864482.550	3-1/4" Brass Cap in Range Box
SH 9 CM-MP 103.9	39° 39' 32.46985" N	106° 4' 59.43861" W	2642.298	-0° 22' 4.0940 "	0.999983268	507631.234	864356.426	CDOT Type II Control Monument
SH 9 CM-MP 104.1	39° 39' 42.73757" N	106° 5' 6.09307" W	2638.861	-0° 22' 8.29090"	0.999983755	507948.910	864199.842	CDOT Type II Control Monument
SH 9 CM-MP 104.4	39° 39' 56.66757" N	106° 5' 15.49469" W	2633.469	-0° 22' 14.2204 "	0.999984418	508379.958	863978.521	CDOT Type II Control Monument
SH 9 CM-MP 104.7	39° 40' 7.88001" N	106° 5' 19.02103" W	2631.201	-0° 22' 16.44443"	0.999984955	508726.295	863896.712	CDOT Type II Control Monument
SH 9 CM-MP 104.9	39° 40' 19.34563" N	106° 5' 24.69263" W	2624.349	-0° 22' 20.0214 "	0.999985508	509080.772	863763.833	CDOT Type II Control Monument
SH 9 CM-MP 105.1	39° 40' 26.47558" N	106° 5' 31.14489" W	2622.918	-0° 22' 24.0908 "	0.999985853	509301.661	863611.491	CDOT Type II Control Monument
SH 9 CM-MP 105.3	39° 40' 34.90819" N	106° 5' 44.42792" W	2622.075	-0° 22' 32.4683 "	0.999986263	509563.793	863296.634	CDOT Type II Control Monument

BASIS OF BEARINGS: Bearings used in the calculation of coordinates are based on a grid bearing of N 27°10'41" W from SH 9 CM-MP 104.1 to SH 9 CM-MP 104.4 as obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN).

BASIS OF ELEVATIONS: Project is based on a U.S. Coast and Geodetic Survey (USCGS) benchmark K 298 1951 a 3-1/4 inch brass cap set in concrete post with an NAVD '88 elevation of 2620.435m. K 298 1951 is part of Colorado Line 97, a second order line leveled in 1951.

COORDINATE DATUM: Project coordinates are modified colorado state plane central zone NAD '83(92) coordinates. State Plane coordinates were modified to a mean project elevation of 2602.992m. The combined elevation/scale correction factor used to modify the coordinates was 1.000417744. Project Coordinates were truncated by 396,240.790m in the Northing and 762,001.519m in the Easting after conversion from state plane coordinates. The CHARN is based on the NAD '83 (92) datum.

CONSTRUCTION SURVEYING AND MONUMENTATION REQUIREMENTS:


- 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.
- 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.
- 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.
- 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.
- Control survey procedures, statistical analysis, and accuracy obtained for horizontal and vertical control shall be documented in the field book.
- Legible copies of the field books shall be submitted to the Project Engineer for review on a monthly basis.
- It is ultimately the prime Contractor's 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.
- 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.

NOTE: This control survey is for the use of Colorado Department of Transportation personnel. The survey is not a complete boundary survey and does not subdivide land. 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 restrictions, as described in the instruments of record, was not included in this control survey.

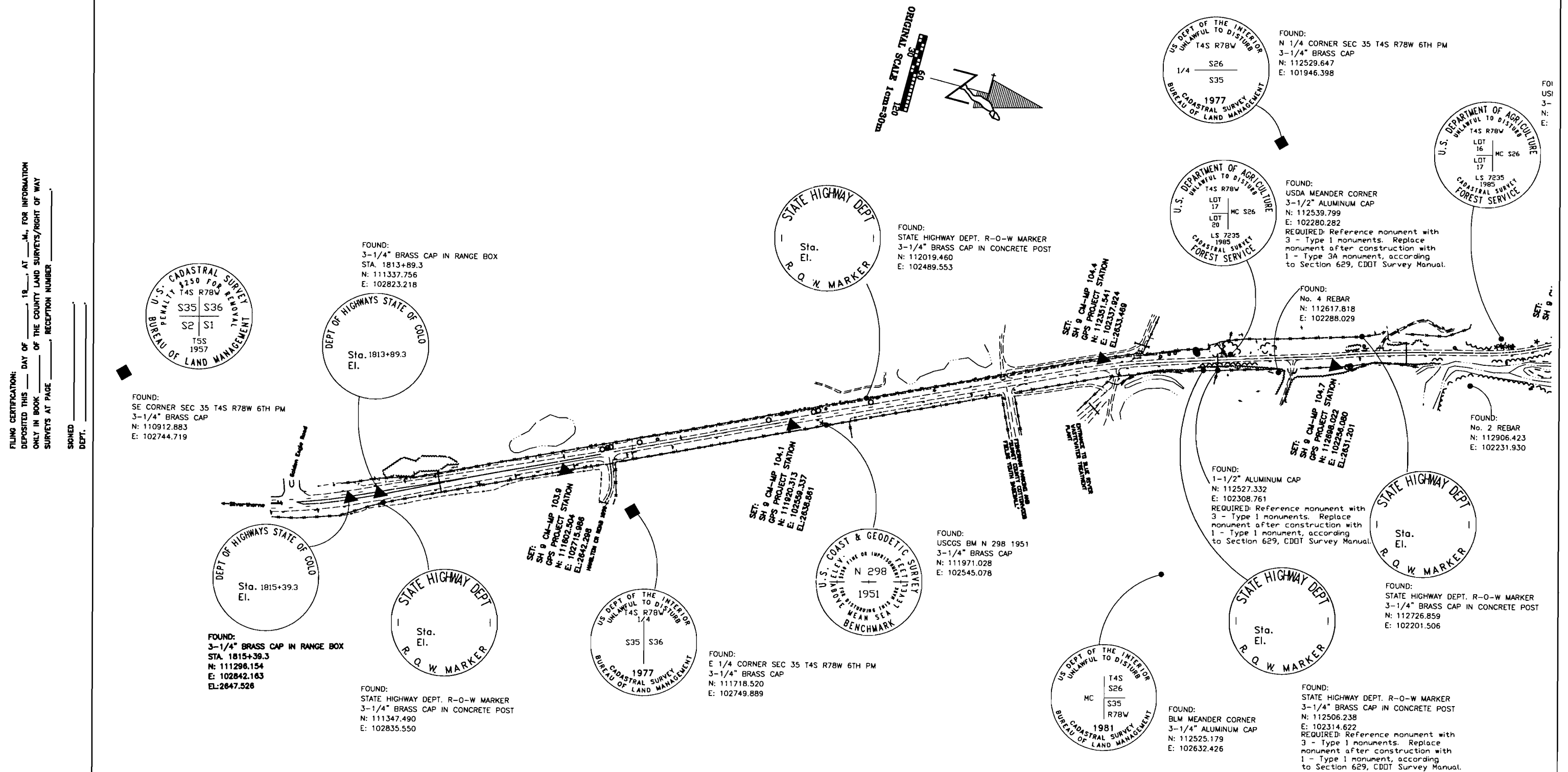
NOTE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the statement shown.


SURVEYORS STATEMENT: I, Joseph P. Conway, a Professional Land Surveyor in the State of Colorado, hereby state that this Control Survey Diagram was prepared under my supervision this day of from a field survey performed under my supervision from September 1993 to September 1997, and checking for and on behalf of the Department of Transportation, State of Colorado, and is not a Land Survey Plat or Right-of-Way Survey Plat and to the best of my knowledge and belief this control survey, as shown, meets the minimum horizontal control tolerances of a Type B Survey.

Joseph P. Conway L.S. 25618

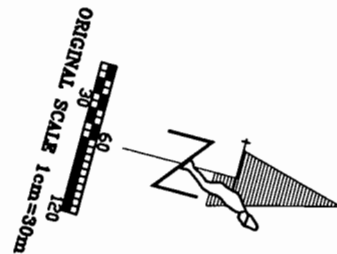
<b>Computer File Information</b>		 <b>Colorado Department of Transportation</b> <b>Region I Right of Way</b> 18500 E. COLFAX AURORA, CO 80011 Phone: 303-757-9744 FAX: 303-757-9746 Survey Coordinator Joseph P. Conway	<b>Revisions</b>		<b>Revisions</b>		<b>CONTROL SURVEY DIAGRAM PLAN SHEET</b>	
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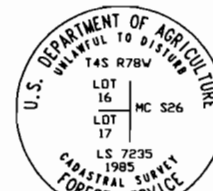


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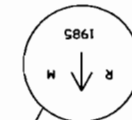
FOUND:  
 N 1/4 CORNER SEC 35 T4S R78W 6TH PM  
 3-1/4" BRASS CAP  
 N: 112529.647  
 E: 101946.398



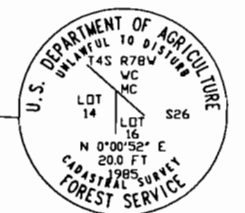
FOUND:  
 USDA MEANDER CORNER  
 3-1/2" ALUMINUM CAP  
 N: 112933.245  
 E: 102149.850



FOUND:  
 USDA MEANDER CORNER  
 3-1/2" ALUMINUM CAP  
 N: 112539.799  
 E: 102280.282  
 REQUIRED: Reference monument with  
 3 - Type 1 monuments. Replace  
 monument after construction with  
 1 - Type 3A monument, according  
 to Section 629, CDDT Survey Manual.



FOUND:  
 REFERENCE MARK  
 2" ALUM CAP ON #4 REBAR  
 N: 113302.487  
 E: 101948.515



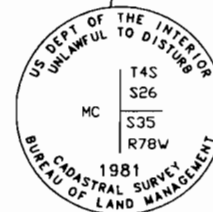
FOUND:  
 USDA MEANDER CORNER  
 3-1/4" ALUMINUM CAP  
 N: 113303.171  
 E: 101950.115  
 REQUIRED: Reference monument with  
 3 - Type 1 monuments. Replace  
 monument after construction with  
 1 - Type 3A monument, according  
 to Section 629, CDDT Survey Manual.



FOUND:  
 STATE HIGHWAY DEPT. R-O-W MARKER  
 3-1/4" BRASS CAP IN CONCRETE POST  
 N: 112726.859  
 E: 102201.506



FOUND:  
 STATE HIGHWAY DEPT. R-O-W MARKER  
 3-1/4" BRASS CAP IN CONCRETE POST  
 N: 112506.238  
 E: 102314.622  
 REQUIRED: Reference monument with  
 3 - Type 1 monuments. Replace  
 monument after construction with  
 1 - Type 1 monument, according  
 to Section 629, CDDT Survey Manual.



FOUND:  
 BLM MEANDER CORNER  
 3-1/4" ALUMINUM CAP  
 N: 112525.179  
 E: 102632.426



FOUND:  
 USCGS BM N 298 1951  
 3-1/4" BRASS CAP  
 N: 111971.028  
 E: 102545.078



FOUND:  
 E 1/4 CORNER SEC 35 T4S R78W 6TH PM  
 3-1/4" BRASS CAP  
 N: 111718.520  
 E: 102749.889



FOUND:  
 STATE HIGHWAY DEPT. R-O-W MARKER  
 3-1/4" BRASS CAP IN CONCRETE POST  
 N: 112019.460  
 E: 102489.553

SET:  
 SH 9 CM-MP 104.4  
 GPS PROJECT STATION  
 N: 112351.541  
 E: 102337.924  
 EL: 2833.469

SET:  
 SH 9 CM-MP 104.7  
 GPS PROJECT STATION  
 N: 112688.022  
 E: 102258.080  
 EL: 2831.201

SET:  
 SH 9 CM-MP 104.9  
 GPS PROJECT STATION  
 N: 113052.848  
 E: 102123.146  
 EL: 2824.349

SET:  
 SH 9 CM-MP 105.1  
 GPS PROJECT STATION  
 N: 113273.630  
 E: 101970.740  
 EL: 2822.918

SET:  
 SH 9 CM-MP 105.3  
 GPS PROJECT STATION  
 N: 113336.871  
 E: 101855.782  
 EL: 2822.075

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