



Region 6
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Sheet Revisions

Date	Description	Initials
3/19/07	Text editing	AJM

PROJECT CONTROL DIAGRAM

IN SECTIONS 2 & 3, T.4S., R.70W.
of the 6th P.M.
JEFFERSON COUNTY
Prepared By C.D.O.T., Region 6 Survey

Project Control Diagram

Plan Sheet

Project Number:	NH 0062-02
Project Location:	SH-6, Colfax Ave. to 19th St. (Golden)
Project Code:	15364
Last Mod. Date:	03-20-07
Subset Sheets:	1 of 1
Sheet No.:	
Total No. of Sheets:	



0 250 500 750 1000 1250

1" = 1000' Half size

GENERAL NOTES

1. This Project Control Diagram is prepared for Colorado Department of Transportation purposes only. This Project Control Diagram is not a Land Survey Plat, Boundary Survey or Right of Way Plat and does not address matters of title. This Project Control diagram is to document the recovery and/or establishment of survey points that will be the basis of future surveys for design purposes, monumentation and/or roadway construction.
2. 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 the certification shown hereon.
3. Horizontal Control Tolerances meet the precision requirements of CDOT Type A control (+/- 0.07' with 95% certainty).
4. Project Specific coordinates are in U.S. Survey feet. Project Specific coordinates were obtained by multiplying the SPC by the Project Combined Factor of 1.0002860648 and truncating the northing by -1,000,000 and the easting by -3,000,000. Published units are in US Survey Feet; 1 Survey Foot = (1200/3937) meters.
5. BASIS OF BEARINGS:
All bearings are grid bearings of the Colorado coordinate system of 1983 (Central Zone). The line between NGS points H407, an NGS deeprod in a survey box "H 407 1984", and RMCL40, a 3.5" brass cap "RMCL 40 1984" in concrete, shown herein, bears S0°47'26"W, a distance of 18,238.38'.
6. BASIS OF ELEVATION:
Elevations are based on CDOT Project C4701-083 (Project Code 11567) point number 24 (elevation 6,025.94'), a 3.25" CDOT aluminum cap flush with ground, that is based on data published for NGS benchmarks S-406 1984 (elevation 1,799.266 m) and R-406 (elevation 1,801.324 m). See "Notes" for CDOT project C4701-083.
7. Elevations on project control points were established by electronic differential leveling to an accuracy of +/- 0.035 ft. times the square root of the distance traversed in miles.

CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) - U.S. SURVEY FEET

POINT	LATITUDE (N)	LONGITUDE (W)	ELLIPSOID	HEIGHT	DESIGNATION
TMGO	40°07'51.34512"N	105°13'57.71720"W	5491.65	5491.65	TABLE MOUNTAIN
PLTC	40°10'53.71231"N	104°43'33.33347"W	4933.48	4933.48	PLATTEVILLE
DSRC	39°59'29.12991"N	105°15'39.67589"W	5436.99	5436.99	BOULDER
P041	39°56'58.15000"N	105°11'39.31685"W	5674.89	5674.89	MARSHALL FIELD

BASIS OF G.P.S. SURVEY - GEODETIC - COLORADO COORDINATE SYSTEM OF 1983 - CENTRAL ZONE - U.S. SURVEY FEET

POINT	LATITUDE (N)	LONGITUDE (W)	STATE PLANE COORDINATES		ELLIPSOID	ORTHOMETRIC	CONVERGENCE
			NORTHING	EASTING		HEIGHT	ANGLE
GABY	39°44'24.27280"N	105°13'14.83584"W	1694573.033	3078520.462	5897.14	5947.32	0°10'34"
H407	38°44'45.75003"N	105°12'31.41461"W	1696756.866	3081905.422	5699.98	5751.29	0°11'01"
RMCL40	39°41'45.57996"N	105°12'35.38115"W	1678525.433	3081853.825	6465.47	6516.01	0°10'59"
ELDRIDGE	39°43'31.79463"N	105°09'23.26384"W	1689325.040	3096630.186	5763.90	5814.24	0°13'00"

RECOVERED PRIMARY CONTROL MONUMENTATION - NGS / DENVER NETWORK 1994 - PROJECT SPECIFIC COORDINATES - U.S. SURVEY FEET

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
GABY	695057.791	79401.118	5947.32	4.0" BRASS CAP "COLORADO SCHOOL OF MINES NB" IN SURVEY BOX "GABY"
H407	697242.249	82787.045	5751.29	NGS DEEP ROD IN SURVEY BOX "H407 1984"
RMCL40	679005.600	82535.377	6516.01	3.25" BRASS CAP "RMCL 40 1988"
ELDRIDGE	689808.296	97516.022	5814.24	3.0" ALUM. CAP "CITY OF LAKEWOOD T4S R69W SEC 6 SEC 7 1986 LS 19591"

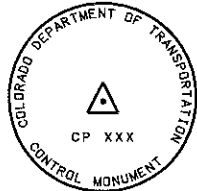
SET PRIMARY CONTROL MONUMENTATION - GPS FAST STATIC - PROJECT SPECIFIC COORDINATES - U.S. SURVEY FEET

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 311	691399.819	82941.564	5991.48	CDOT TYPE 2 w/3.25" ALUM. CAP "CP311 CONTROL MONUMENT"
CP 312	691712.033	82046.985	5967.13	CDOT TYPE 2 w/3.25" ALUM. CAP "CP312 CONTROL MONUMENT"
CP 313	692857.912	81642.217	5928.10	CDOT TYPE 2 w/3.25" ALUM. CAP "CP313 CONTROL MONUMENT"
CP 314	693553.449	80799.720	5871.39	CDOT TYPE 2 w/3.25" ALUM. CAP "CP314 CONTROL MONUMENT"
CP 315	694449.806	80451.342	5874.03	CDOT TYPE 2 w/3.25" ALUM. CAP "CP315 CONTROL MONUMENT"
CP 316	695400.195	79779.417	5901.84	CDOT TYPE 2 w/3.25" ALUM. CAP "CP316 CONTROL MONUMENT"
CP 317	696067.266	79346.038	5876.33	CDOT TYPE 2 w/3.25" ALUM. CAP "CP317 CONTROL MONUMENT"

RECOVERED PROJECT CONTROL MONUMENTATION - PROJECT SPECIFIC COORDINATES - U.S. SURVEY FEET

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 3	691098.139	83857.364	6005.71	2.0" CDDH ALUM. CAP "PP3"
CP 12	697169.707	78638.576	5862.50	3.25" CDDH ALUM. CAP "4.019213 JFSA CONTROL MONUMENT"
CP 24	689879.523	85415.397	6025.93	3.25" CDOT ALUM. CAP "4.007177 CONTROL MONUMENT"
CP 25	690117.272	84443.944	6043.32	3.25" CDOT ALUM. CAP "4.007180 CONTROL MONUMENT"

Jefferson County Government Center



3.25" CDOT ALUMINUM CAP (TYP.)
PRIMARY CONTROL (SET)

NOTE: Edge of Roadway Alignment is For Information Only.

LEGEND

▲	PRIMARY CONTROL POINT NGS-DENVER N/W
△	PROJECT CONTROL POINT SET-FOUND

Surveyor's Statement:

I, Alan Dale J. Manchego, a Professional Land Surveyor in the State of Colorado, do hereby state to the Colorado Department of Transportation that this Project Control Diagram, and the field survey it depicts, was performed under my responsible charge; is based upon my knowledge, information and belief; and was conducted in accordance with applicable standards of practice. This statement is not a guarantee of accuracy, neither expressed nor implied.

Alan Dale J. Manchego
PLS No. 37957
Date: 3/20/2007

