

Sheet Revisions		
Date	Description	Initials
01/11/12	Revise Control Point Data	JRT

Land Survey Control Diagram			
Title Sheet			
Project Number:	NCPD 0852-094		
Project Location:	C470 / US HIGHWAY 85 INTERCHANGE DOUGLAS & ARAPAHOE COUNTY, COLORADO		
Project Code:	Last Mod. Date	Subset	Sheet No.
14679	12-17-09	1 of 4	3.01

GENERAL NOTES:

- This Land Survey Control Diagram is to document the recovery and/or establishment of survey control points that will be the basis of future surveys for design purposes, right-of-way acquisitions, monumentation, and/or roadway construction. This Land Survey Control Diagram is not a Monumented Land Survey or Boundary Survey and does not address matters of title. No analysis was made to determine the status or validity of recovered monuments.
- BASIS OF BEARINGS:** All bearings shown herein are Grid bearings of the Colorado coordinate system of 1983, central zone (502), based on the line connecting the W 1/4 corner of Sec. 5 and the C 1/4 corner of Sec. 5, Township 6 South, Range 68 West, of the 6th Principal Meridian being a grid bearing of N 89°28'26" E (2685.49'), as obtained from a global positioning system (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN). Said corners are monumented as shown herein.
- Project specific coordinates were obtained by multiplying the project's state plane coordinates by 1.0002929980 and then truncating the northing by 1312326.66 and the easting by 2952737.03. Published units are in US survey feet: 1 survey foot = (1200/3937) meters
- Horizontal Control Tolerances meet the precision requirements of CDOT type A control (+/- 0.07' with 95% certainty).
- Elevations are GPS derived, using Geoid 2003, based on NGS First Order Class II Bench Mark Q 401 PID KK1465, Published Elevation = 5520.20 Feet. Elevations were further verified by differential leveling between various control points as indicated herein. Leveled elevations were established by electronic differential levels with an accuracy meeting or exceeding 0.035 times the square root of the distance leveled in miles.
- This Land Survey Control diagram is based on previously established control coordinates as shown on the Control Diagram prepared by Wilson and Company in December 2003, Project No. C-4701-103 Project Code 14222.

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.

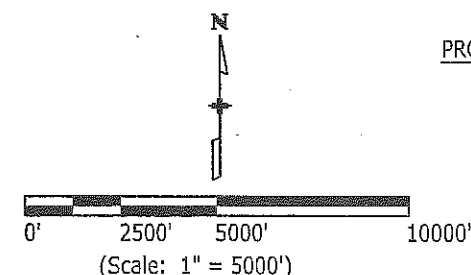
ZYLSTRA BAKER SURVEYING, INC. NOTES (REV 1)

- POINT NOS. 21, 22 AND 54 WERE DESTROYED BY CONSTRUCTION IN CDOT PROJECT ES8 0852-103. POINT NOS 96, 97, 98 AND 99 WERE ESTABLISHED TO PROVIDE REPLACEMENT CONTROL IN THE PROJECT AREA. POINT NO. 78 SCHEDULED TO BE DESTROYED IS STILL INTACT.
- NGS POINT Q23 WAS HELD IN THE MINIMALLY CONSTRAINED ADJUSTMENT AND EXISTING CONTROL POINTS 51 AND 53 ADDED FOR THE FULLY CONSTRAINED ADJUSTMENT. BASELINES BETWEEN ADJACENT CONTROL POINTS WERE VERIFIED USING A TOTAL STATION. EXISTING PROJECT COORDINATE PARAMETERS WERE USED TO MODIFY AND TRUNCATE NEW COORDINATE VALUES TO MATCH PROJECT COORDINATES.
- ELEVATIONS WERE ESTABLISHED BY DIFFERENTIAL LEVELS RUN IN A CLOSED LOOP FROM EXISTING PROJECT CONTROL. ALL NEW HORIZONTAL AND VERTICAL CONTROL MEETS OR EXCEEDS THE TOLERANCES FROM THE ORIGINAL CONTROL SURVEY, AS STATED IN NOTES 4 AND 5 ABOVE.

INDEXING STATEMENT

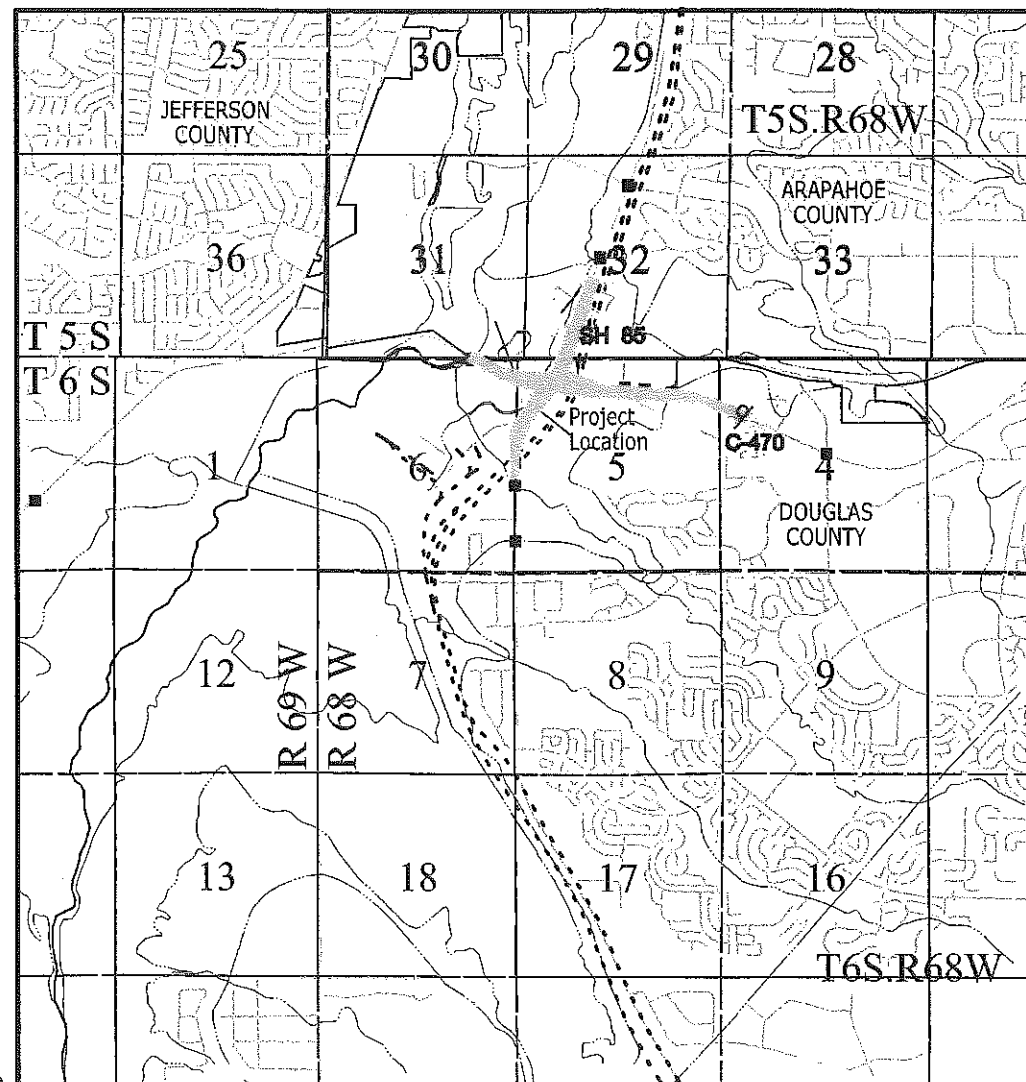
Deposited This _____ Day of _____, 200_, at _____ M.,
in Book _____ of the County Surveyor's Land Survey/ Right of Way
Survey at Page(s) _____, Reception No. _____

County Surveyor / Deputy County Surveyor

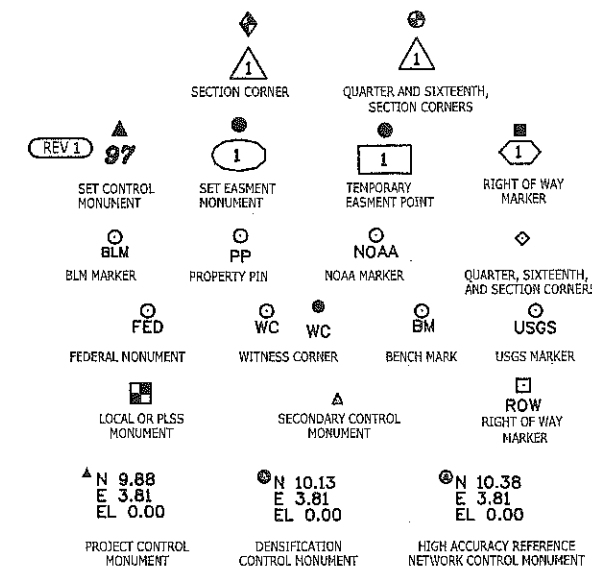


DEPARTMENT OF TRANSPORTATION STATE OF COLORADO LAND SURVEY CONTROL DIAGRAM

C-470 / US HIGHWAY 85 INTERCHANGE
LOCATED IN SECTIONS 5 AND 6, TOWNSHIP 6 SOUTH, RANGE 68 WEST, OF THE 6TH P.M.,
DOUGLAS COUNTY, COLORADO
AND SECTIONS 31 AND 32, TOWNSHIP 5 SOUTH, RANGE 68 WEST OF THE 6TH P.M.,
ARAPAHOE COUNTY, COLORADO



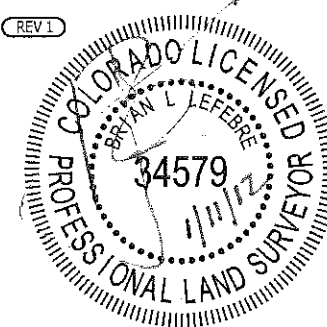
SHEET NO.	INDEX OF SHEETS
3.01	(1) Title Sheet
3.02-3.03	(2) Monument Coordinate Tables
3.04	(1) Plan Sheets
	(4) Total Sheets



Note: For a complete listing of symbolology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2006. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

SURVEYOR'S CERTIFICATE FOR REVISION 1 (REV 1)
SHOWN HEREON IN BOLD

I, BRIAN L. LEFEBRE, A PROFESSIONAL LAND SURVEYOR DULY REGISTERED IN THE STATE OF COLORADO, BASED UPON MY PROFESSIONAL OPINION, DO HEREBY STATE TO THE COLORADO DEPARTMENT OF TRANSPORTATION THAT THIS SURVEY WAS PERFORMED UNDER MY DIRECTION AND SUPERVISION, SAID SURVEY BEING MADE ON THE GROUND TO THE NORMAL STANDARD OF CARE OF PROFESSIONAL LAND SURVEYORS PRACTICING IN THE STATE OF COLORADO, AND TO THE STANDARDS AS STATED IN THE CDOT SURVEY MANUAL, THAT TO THE BEST OF MY KNOWLEDGE I FIND THE INFORMATION CONTAINED HEREON TO BE CORRECT AND AN ACCURATE REPRESENTATION OF SAID SURVEY.



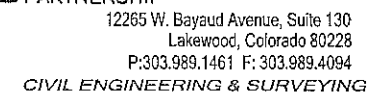
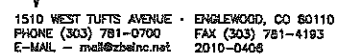
BRIAN L. LeFEBRE
PROFESSIONAL LAND SURVEYOR
COLORADO NO. 34579

SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)

I, Geoffrey F. Stephenson, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Land Survey Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

Geoffrey F. Stephenson PLS No. 23521

Date

[illegible]

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Plan Sheet			
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