

AS CONSTRUCTED

NO REVISIONS ☐ REVISED ☐ VOID ☐

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VII	COLO.	IR[CX] 070-4(151)		

# DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO

## SURVEY CONTROL DIAGRAM

Project IR[CX] 070-4(151)  
Interstate 70 Milepost 323.1 to Milepost 323.3  
Middle Bijou Creek Strs. F-20-BJ and F-20-BK  
Sec. 27 and 28, T. 4 S., R. 60 W., 6th P.M.  
Arapahoe County, Colorado

COORDINATE SUMMARY TABLE  
(UNADJUSTED FIELD DATA)

POINT	NORTHING	EASTING	ELEV. (ft.)
CM-MP 323.10	99999.26	199999.43	5139.76
CM-MP 323.14	99629.09	200307.01	5124.13
CM-MP 323.15	99815.68	200455.04	5124.14
CM-MP 323.19	99566.88	200569.37	5125.08
CM-MP 323.29	99569.20	200800.97	5127.98
CM-MP 323.30	99393.31	200788.40	5142.85
WORK PT. 1	99093.14	200236.19	5140.43
WORK PT. 2	99314.19	200778.04	5144.07
WORK PT. 3	99581.23	201086.50	5135.20
WORK PT. 4	100644.9	200059.9	5152.7
WORK PT. 5	99573.0	199329.2	5161.2
WORK PT. 6	100153.2	200749.5	5123.2
WORK PT. 7	100464.0	200910.4	5121.7
S.E. COR. SEC. 28	97909.48	200777.20	---



TYPICAL CONTROL MONUMENT

**BASIS OF BEARINGS:** Bearings used in the calculation of coordinates are based on an assumed bearing of S 52°28'28" E from CM-MP 323.10 to CM-MP 323.30, as calculated from the centerline bearing of Interstate-70 from construction project IR[CX] 70-4(121). CM-MP 323.10 and CM-MP 323.30 are described in detail below.

▲ CM-MP - Control Monuments are set CDOT type 2 monuments, a 3-1/4" aluminum control monument cap (as shown) on a 3' X 3/4" flnned aluminum rod on a 3' X 3/4" straight aluminum rod.

△ WORK PT. - Work points are set oak hubs with guard stakes and lathes. They are located by sideshots from the main control points unless they were part of the main control traverse.

**NOTE:** 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.

**NOTE:** If construction activity disturbs any R-O-W marker, property pin, or other survey monument, it is the contractor's responsibility to replace, restore, or rehabilitate the monument according to State Statutes and the rules and regulations set forth by the State Board of Registration for Professional Engineers and Professional Land Surveyors.

**NOTE:** A presurvey conference is required before all construction projects begin.

**NOTE:** This control survey is for the use of Colorado Department of Transportation personnel. The survey is not a complete Boundary Survey. The rectification of the physical evidence with the recorded documents was not requested on this project. Research into and depiction of Right-Of-Ways and easements was not requested on this project.

**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 on original signature of the professional land surveyor hereon named.

### 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 January 15, 1991 to August 15, 1991, 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 listed in the Colorado Department of Highways Survey Manual Chapter Three (Revised 7/1/89).

TRAVERSE SUMMARY TABLES  
(UNADJUSTED FIELD DATA)

### PRIMARY CONTROL TRAVERSE

OCCUPIED POINT	BACK POINT	AHEAD POINT	MEAN HORIZ. DIST. (±.02')	MEAN HORIZ. ANG. RT. (±5°)
CM-MP 323.30	CM-MP 323.10	WORK PT. 1	628.52	203°56'48"
WORK PT. 1	CM-MP 323.30	CM-MP 323.19	579.17	333°38'46"
CM-MP 323.19	WORK PT. 1	CM-MP 323.14	269.63	68°13'18"
CM-MP 323.14	CM-MP 323.19	CM-MP 323.15	238.18	295°05'12"
CM-MP 323.15	CM-MP 323.14	CM-MP 323.29	424.76	267°02'40"
CM-MP 323.29	CM-MP 323.15	WORK PT. 3	285.78	142°07'02"
WORK PT. 3	CM-MP 323.29	CM-MP 323.30	352.38	330°10'37"

### TRAVERSE TO S.E. CORNER SECTION 28

OCCUPIED POINT	BACK POINT	AHEAD POINT	MEAN HORIZ. DIST. (±.02')	MEAN HORIZ. ANG. RT. (±5°)
CM-MP 323.10	---	CM-MP 323.30	994.81	---
CM-MP 323.30	CM-MP 323.10	S.E. COR. SEC. 28	1483.87	232°54'25"
S.E. COR. SEC. 28	CM-MP 323.30	WORK PT. 2	1404.71	359°36'07"
WORK PT. 2	S.E. COR. SEC. 28	CM-MP 323.10	1037.10	131°18'31"

**NOTE:** Closure of unadjusted control traverses are calculated to be greater than 1 part in 50000.

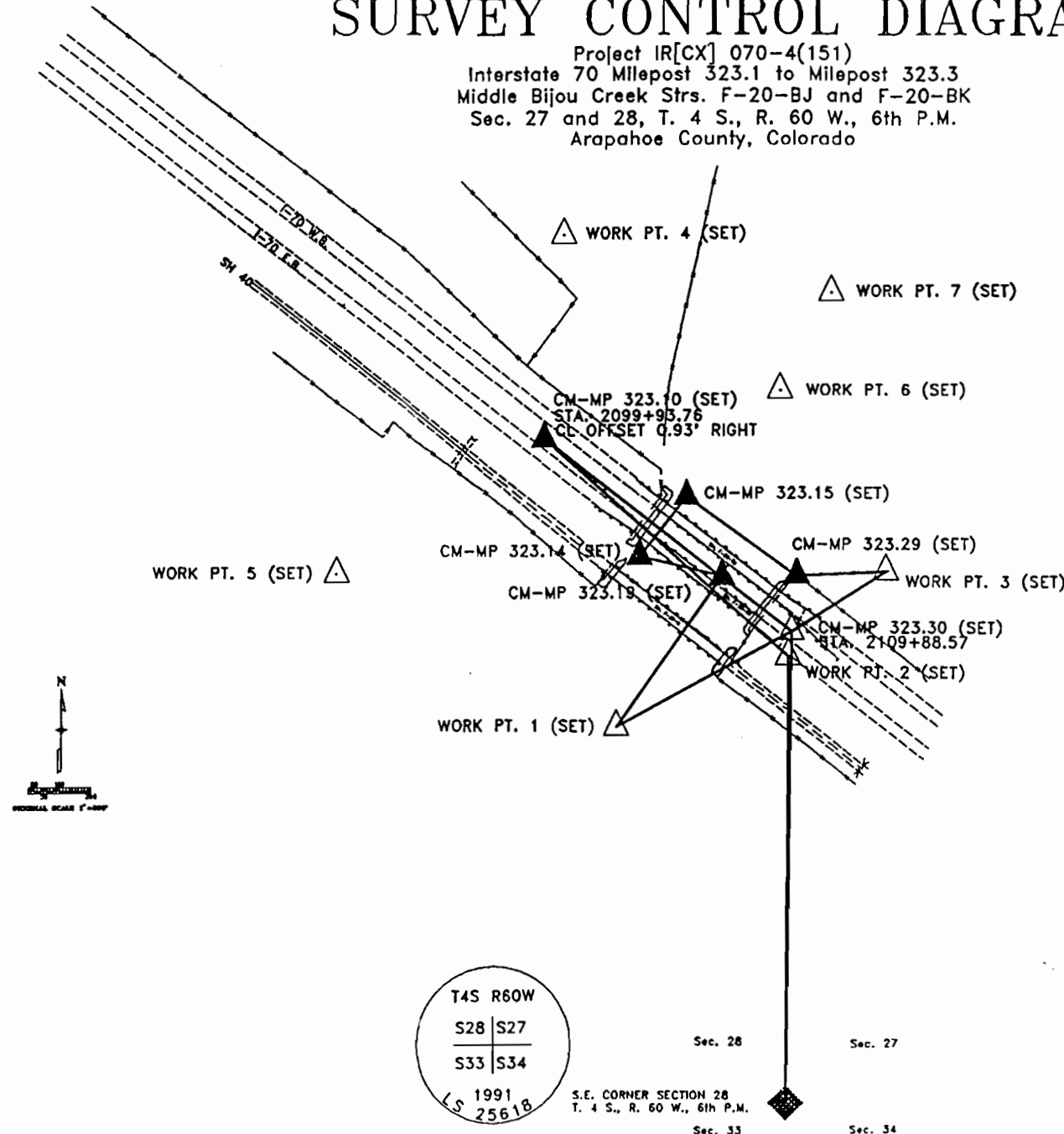
Joseph P. Conway L.S. 25618

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- ▲ CM-MP AND CM - CONTROL MONUMENTS
- WORK POINTS
- ◆ S.E. CORNER SECTION 28  
T. 4 S., R. 60 W., 6th P.M.  
NOTE: Found a 22" #5 rebar flush with the ground. Reset with a 3 1/4" aluminum cap on a 2 1/2" by 30" aluminum pipe protruding 2" out of the ground. Cap is stamped as shown.
- No R-O-W markers found within project limits.
- No property pins found within project limits.