

Sheet Revisions	
Revised	Title Sheet Block & Surveyors Statement
	Revised CP & MP Numbers
04/04/06	LKG
04/20/06	LKG

SH 59 173.000 RP to 173.236 RP
Sedgwick County, Colorado
Sections 17 & 18, T11N, R46W, 6th P.M.

Project Control Diagram			
Title Sheet			
Project Number: STA R400-178			
Project Location: R4 Bridge Rehab E			
Project Location:			
Project Code:	Date	Subest Sheets	Sheet No.
14991	04/04/2006	1 of 1	3

PROJECT COORDINATES SUMMARY TABLE (FEET)

POINT NAME	PROJECT COORDINATES		ELEV (NAVD 88)	DESCRIPTION
	NORTHING	EASTING		
CP 7325 (MP 173.25)	120712.141	215517.086	3584.97	CDOT Type II Control Monument
CP 7329 (MP 173.29)	121123.721	216220.717	3578.84	CDOT Type II Control Monument
CP C443 (C 443 - NGS Benchmark)	121673.358	216770.881	3581.653	C 443 - NGS Stainless Steel Deep Rod

GEODETIC COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	GEODETIC COORDINATES NAD-83(92) (CHARN)		ELLIP. HEIGHT (m)	MAPPING ANGLE	SCALE	NAD 83(92) ZONE 0502	
	LATITUDE(N)	LONGITUDE(W)				NORTHING (m)	EASTING (m)
CP 7325 (MP 173.25)	40° 56' 01.35629"	102° 31' 03.97311"	1072.602	1° 55' 36.90617"	1.000027863	486723.566	1165523.148
CP 7329 (MP 173.29)	40° 56' 05.18617"	102° 30' 54.63193"	1070.740	1° 55' 42.94182"	1.000028085	486848.997	1165737.584
CP C443 (C 443 - NGS Benchmark)	40° 56' 10.43001"	102° 30' 47.27298"	1071.593	1° 55' 47.72576"	1.000028389	487016.503	1165905.250
PAT AZ MK (Densification Pt)	40° 57' 26.16165"	102° 25' 41.07204"	1058.882	1° 59' 05.54335"	1.000032856	489595.980	1172982.384
A 443 (Densification Pt)	40° 55' 24.63123"	102° 33' 44.57393"	1076.930	1° 53' 53.13660"	1.000025754	485465.873	1161805.519

BASIS OF BEARINGS: Bearings used in the calculations of coordinates are based on a grid bearing of S 69°43'11" W from the Densification Point "PAT AZ MK" (NGS Stationless Steel Deep Rod), Section 1, Township 11 North, Range 46 West, Sixth P.M. and the Densification Point "A 443" (NGS Stationless Steel Deep Rod), Section 23, Township 11 North, Range 47 West, Sixth P.M. 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 NAVD 88 elevation of 1091.690m on NGS benchmark "C 443" (NGS Stainless Steel Deep Rod). All other project elevations were derived from a level loop of the project control.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane North Zone NAD 83(92) coordinates. State Plane Coordinates were modified to a mean project elevation of 1091.690m. The combined elevation/scale factor used to modify the coordinates is 0.9994665965. Project Coordinates are truncated by 450,000 in the Northing and 1,100,000 in the Easting. The CHARN is based on NAD 83(92) datum.

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 an original signature of the professional land surveyor named hereon.

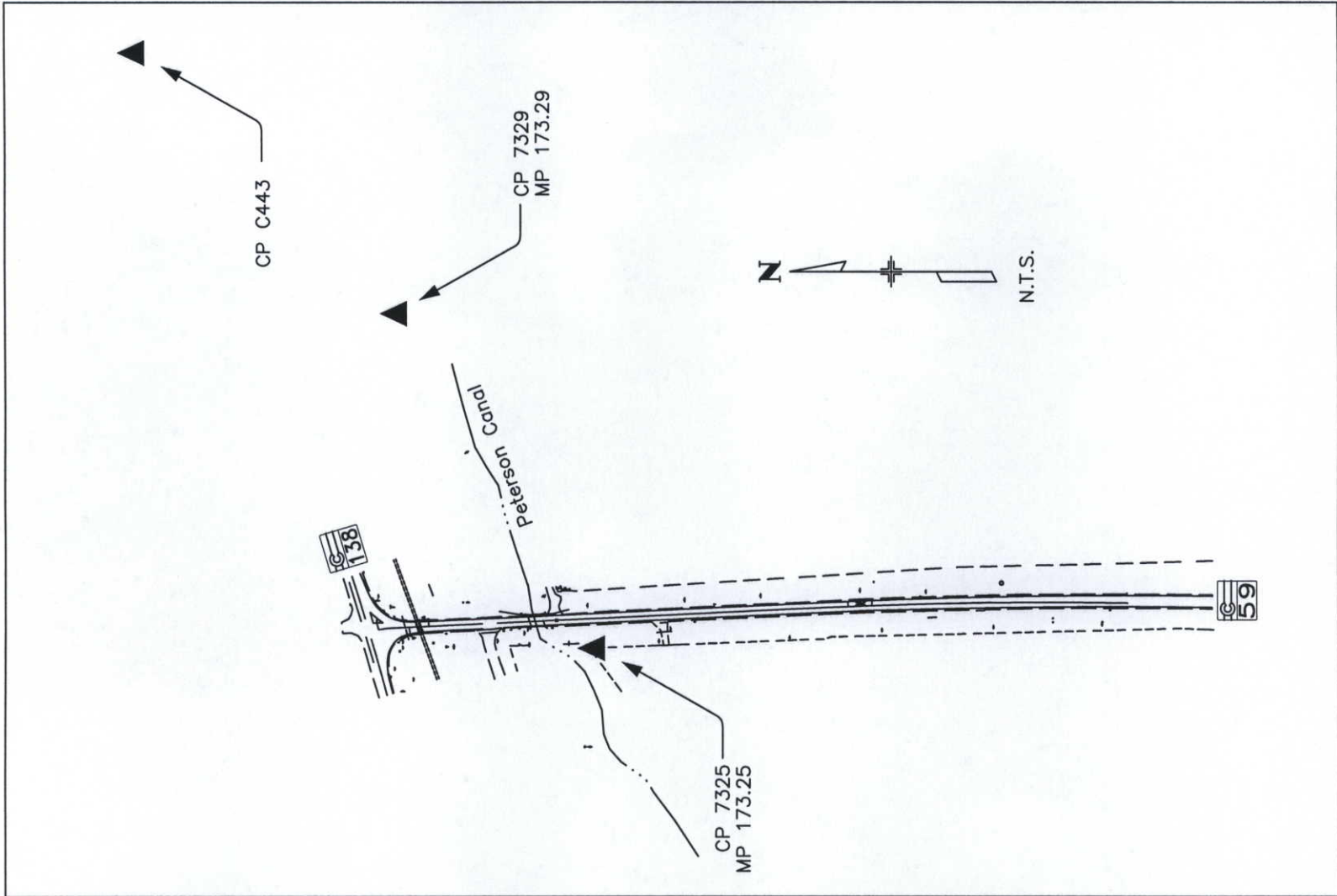
SURVEYORS STATEMENT: I, Lee K. Groves, a Professional Land Surveyor in the State of Colorado, hereby state that this Project Control Diagram was prepared under my direct supervision this day of , from a field survey performed under my supervision and checking on behalf of the Department of Transportation, 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 CDOT Class B Survey and this topographic survey, as shown, meets the minimum horizontal control tolerances of a CDOT Class D Survey as listed in the Colorado Department of Transportation Survey Manual.



Lee K. Groves L.S. 34169



▲ **CP - Control Point Monuments set by CDOT.** They are CDOT Type 2 monuments: a 3-1/4" dia. aluminum control monument cap (as shown) on a 3" X 3/4" dia. finned aluminum security rod and a 3" X 3/4" dia. smooth aluminum rod.





Colorado Department of Transportation

Region 4 ROW
1420 2nd Street
Greeley, CO 80631
Phone: (970) 350-2153 FAX: (970) 350-2178

Right of Way and Survey Unit: DGM

Sheet Revisions			
Date	Description	Initials	
04/06	Revised General Note #7	JTD	
04/06	Edit points 303, 304	JTD	
05/10	As-Built	JTD	

Sheet Revisions			
Date	Description	Initials	

Sheet Revisions			
Date	Description	Initials	
mm/yy	XXXXXXXX	XXX	

Right of Way Plans			
Monumentation Sheet			
Project Number: STA R400-178			
Project Location: R4 Bridge Rehab Eastern TPR			
Project Location:			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No. Total No. of Sheets
14991	05-24-10	1 of 1	4 6



TABULATION OF R.O.W. MARKERS
TO BE SET BY STATE FORCES

Pnt No	Northing	Easting	Station	Offset
5	120961.930	215539.442	204+44	32.7' LT
13	120671.436	215614.061	201+50	27.3' RT
14	120985.592	215604.771	204+64	33.7' RT
300	120668.142	215548.130	201+50	38.7' LT
301	120717.016	215524.345	202+00	60' LT
302	120952.206	215512.595	204+35	60' LT
303	120723.004	215644.195	202+00	60' RT
304	120962.705	215632.220	204+40	60' RT

Set right-of-way monuments are CDDT class 1, PLS 34169

TABULATION OF SURVEY CONTROL POINTS
TO BE SET OR RESET

Pnt No	Northing	Easting	Station	Offset
17	120973.761	215572.107	204+54	0.5' RT
18	120669.789	215581.095	201+50	5.7' LT

TABULATION OF POINTS
FOR INFORMATION ONLY

GENERAL NOTES

1. This Right of Way Plan is not a complete boundary survey of all adjoining owners and is prepared for Transportation Department purposes only.
2. Survey Control Points set with a higher degree of accuracy than R.O.W. markers.
3. 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 such defect in this survey be commenced more than ten years from the date of certification shown hereon.
4. ALL R.O.W. markers set from control monuments.
5. All centerline and offset stationing is theoretical only and may not represent the centerline as constructed in the field. All stationing is approximate.
6. All coordinates listed are project coordinates only.
7. Field survey control precision meets the minimum horizontal control precision tolerances of a CDDT Class B survey.
8. Commitments for title insurance supplied by United General Title Insurance Company.

TABULATION OF PERMANENT EASEMENT
MARKERS TO BE SET

TABULATION OF ALIQUOT CORNERS
TO BE RESET

TABULATION OF TEMPORARY EASEMENT
POINTS TO BE STAKED

SURVEYOR CERTIFICATE (OFFICE)

I, _____, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan was prepared under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty of warranty, either expressed or implied.

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE	X	X						X	X	X
ROW	8	X						X	X	
CONTROL			X					X	X	
ALIQUOT CORNER	X				X		X	X		
PERMANENT EASEMENT								X	X	X
PROJECT POINTS								X	X	X
WITNESS POST (REQUIRED)	X		X	X	X					

SURVEYOR CERTIFICATE (FIELD)

I, _____, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, adequate research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan monuments depicted on this Right-of-Way Plan were set under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty of warranty, either expressed or implied.

Lee Groves PLS No. 34169 Date

John Obrochta PLS No. 30112 Date



Right of Way Plans Unit David G. Mantych
Fax: (970) 350-2178

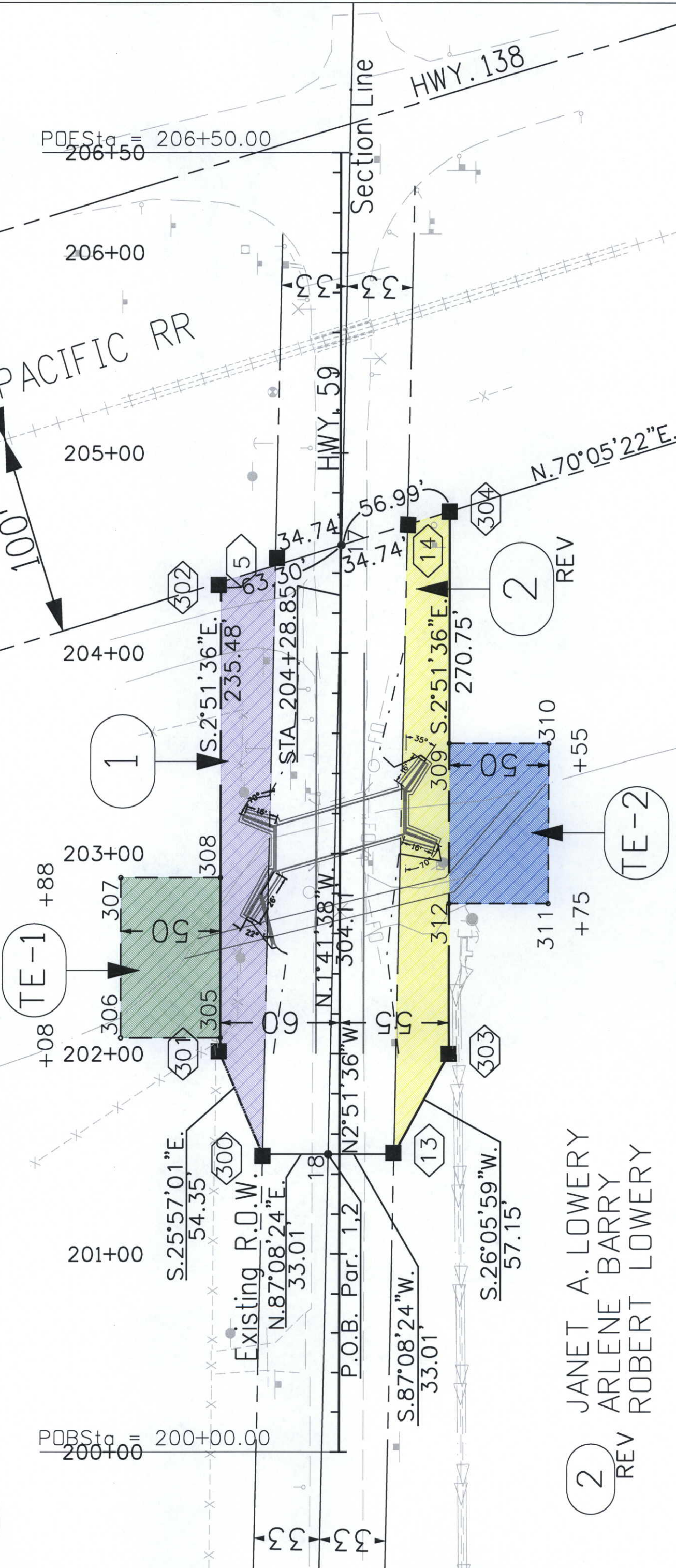
Sheet Revisions
04/06 JTO
12/06 JTO
05/10 JTO
Revise Parcel 2
Add TE-1, TE-2
As-Built

Sheet Revisions
mm/yy
xxxxx

Sheet Revisions
mm/yy
xxxxx

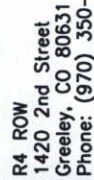
Right of Way Plans
Plan Sheet
Project Number: STA R400-178
Project Location: R4 Bridge Rehab Eastern TPR
Project Location:
Project Code: 14991
Last Mod. Date: 05/24/2010
Sheet No. 5
Total No. of Sheets 6

T.11N., R46W., 6TH P.M.
E 1/2 NE 1/4 SEC 18
1 TOWN OF SEDGWICK



2 REV
JANET A. LOWERY
ARLENE BARRY
ROBERT LOWERY

NW 1/4 SEC 17



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Department of Transportation
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