



Sheet Revisions

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Project Control Diagram

Title Sheet

Project Number: FBR 0581-010				
Project Location: SH-58 at Ford St.				
Sec. 27, 28 T3S R70W/6th PM, Jefferson County				
Project Code:	Last Mod. Date	Subset	Sheet No.	
18770	12-11-12	1 of 3	3.01	

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

PROJECT CONTROL DIAGRAM

State Highway 58 MP 0.99 to 1.19
Section 27 & 28
Township 3 South, Range 70 West
of the 6th Principal Meridian
County of Jefferson



SHEET NO.

3.01
3.02
3.03

INDEX OF SHEETS

- (1) Title Sheet
(1) Plan Sheet
(1) Monument Coordinate Tables
(3) Total Sheets

GENERAL NOTES:

- 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, right-of-way acquisitions, monumentation, and/or roadway construction. This Project Control Diagram is not a Monumented Land Survey or Boundary Survey and does not address matters of title.
- BASIS OF BEARINGS: Grid bearings of the Colorado coordinate system of 1983, central zone (502), determined by a Fast Static GPS survey of the control points of Project No. BR 0581-008 (15576). The line between point 553 and point 552, shown herein, bears N44°27'25"E, a distance of 492.35 feet.
- Geodetic coordinates are NAD'83 (1992) datum based on a Fast Static GPS survey holding published values on the primary control points shown on Project No. BR 0581-008 (15576).
- Project specific coordinates were obtained by multiplying the project's state plane coordinates by 1.0002650689 and then 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
- Horizontal Control Tolerances meet the precision requirements of CDOT type A control (+/- 0.07' with 95% certainty).
- Vertical Datum: Elevations are NAVD'88 Datum established by digital differential levels run from NGS benchmark "L407" (PID KK1370), elevation = 5717.85'.
- Elevations on control points were established by digital differential levels with an accuracy meeting or exceeding 0.035' times the square root of the distance leveled in miles.

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.

Surveyor's Statement (Project Control Diagram):

I, Donald D. Hansen, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that this **Project 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.

Donald D. Hansen, PLS No. 14599 Date

Jefferson County Depositing Certificate:

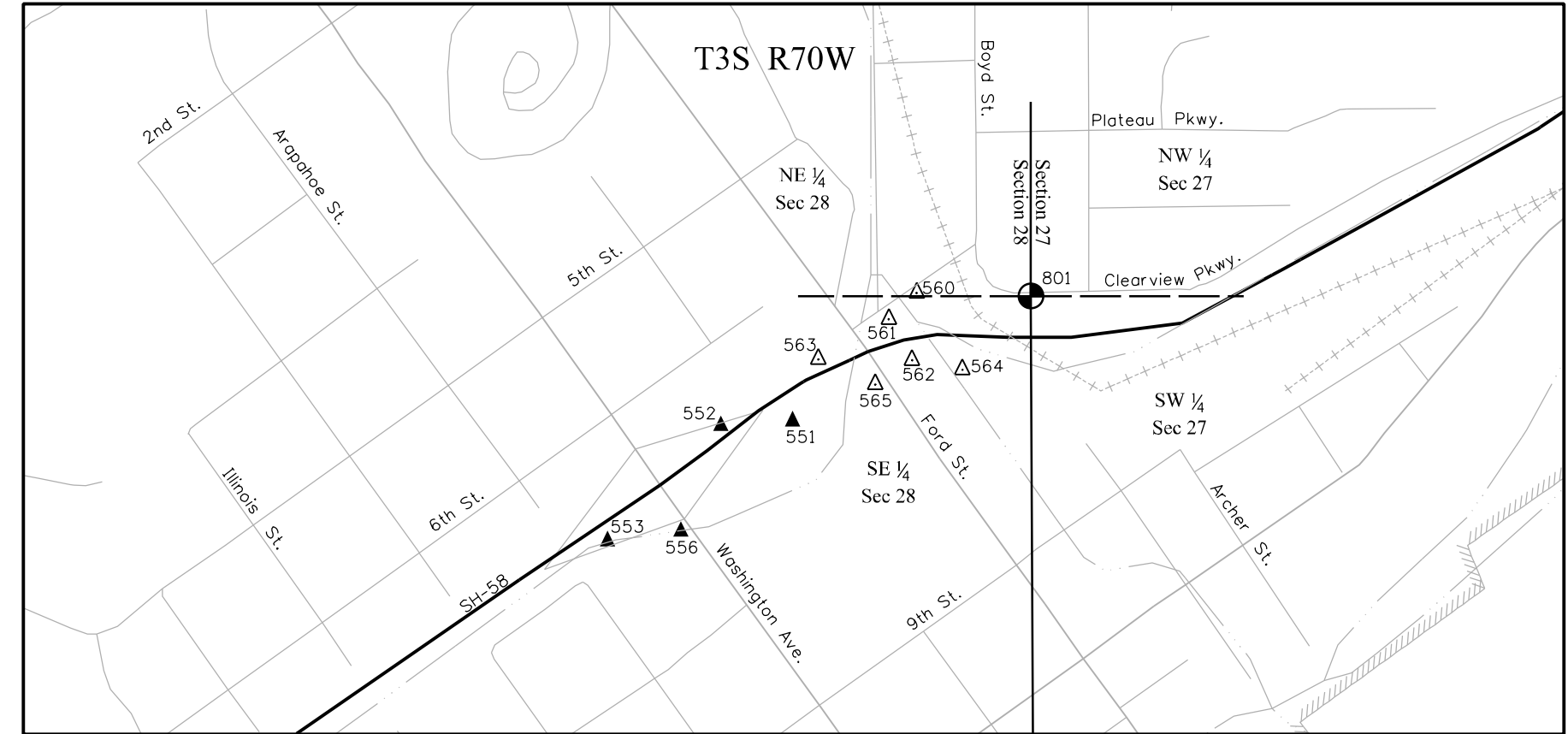
Deposited this _____ day of _____ 201__ at _____ o'clock ____M. under

Reception No. _____.

By: _____

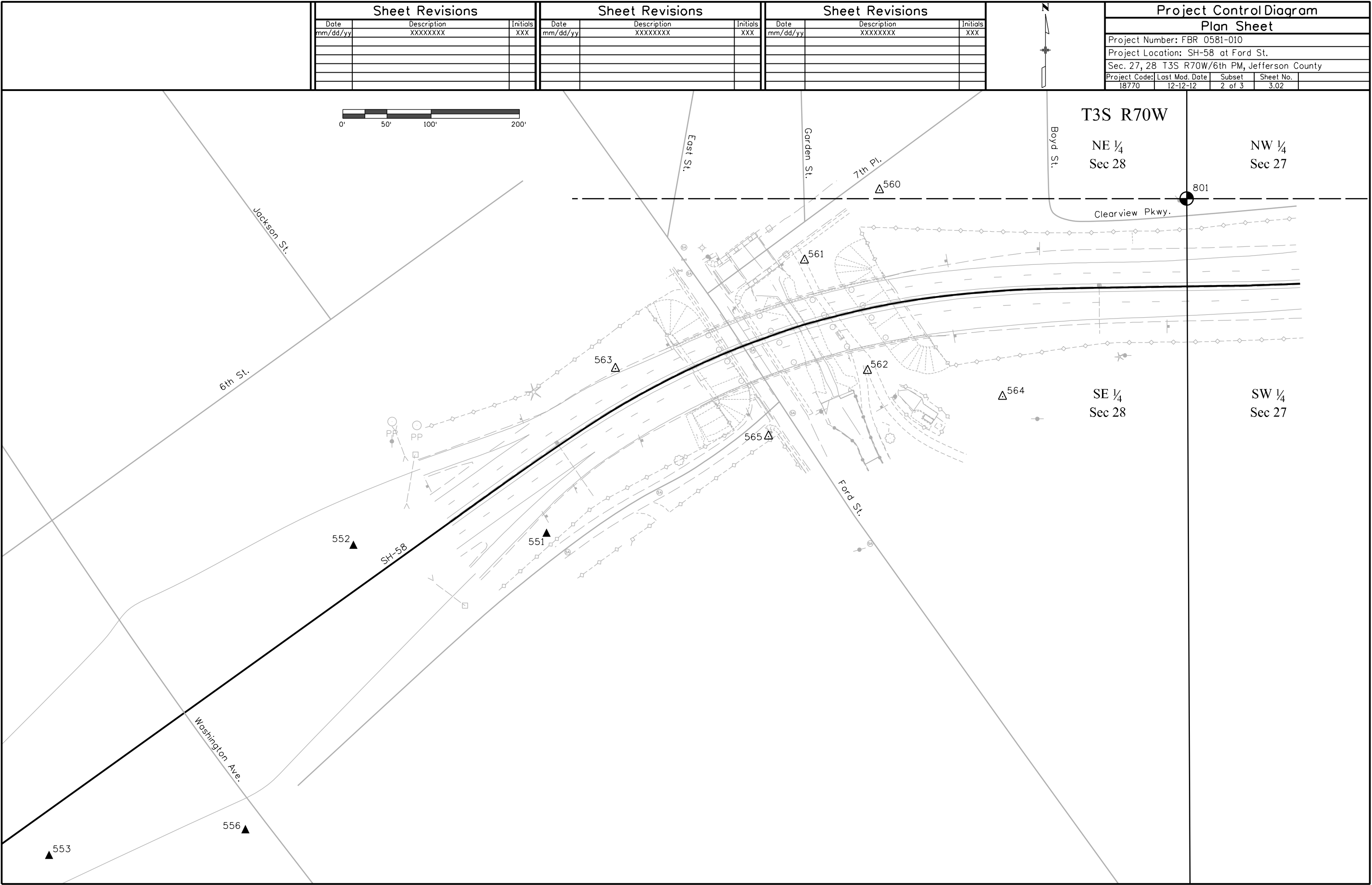
Title: _____

Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2006 found in The Colorado Department of Transportation, M & S Standards for survey monument descriptions.



PROJECT LOCATION MAP

12/20/2012 3:25:32 PM C:\Users\buffington\Documents\Projects\18770\18770 SURV Drawings\18770SURV_PCD-Plan_3.02.dgn





2000 South Holly
Denver, CO 80222
Phone: 303-757-9923 FAX: 303-757-9390

Region 6

SLK

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Project Control Diagram

Tabulation Sheet

Project Number: FBR 0581-010				
Project Location: SH-58 at Ford St.				
Sec. 27, 28 T3S R70W/6th PM, Jefferson County				
Project Code:	Last Mod. Date	Subset	Sheet No.	
18770	12-18-12	3 of 3	3.03	

Existant Fast Static GPS Survey Control Points (Benched elevations) Recovered from CDOT Project BR 0581-008, Project Code 15576

Geodetic and State Plane (NAD 1983-92 Zone 502) Coordinates							Project Specific Coordinates				Description
Point	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing	Easting	Point	Northing	Easting	Elevation NAVD'88	
551	39°45'38.64263"N	105°13'27.94134"W	5676.900	0°10'25.68103"	1702095.075	3077473.875	551	702546.247	78289.618	5727.720	CDOT Type 2 monument "CP 551"
552	39°45'38.51479"N	105°13'30.74091"W	5667.040	0°10'23.91538"	1702081.477	3077255.286	552	702532.646	78070.970	5717.830	CDOT Type 2 monument "CP 552"
553	39°45'35.05296"N	105°13'35.16887"W	5666.640	0°10'21.12271"	1701730.144	3076910.544	553	702181.221	77726.137	5717.370	CDOT Type 2 monument "CP 553"
554	39°45'32.59256"N	105°13'39.43965"W	5677.300	0°10'18.42917"	1701480.184	3076577.764	554	701931.194	77393.269	5727.990	CDOT Type 2 monument "CP 554"
556	39°45'35.33218"N	105°13'32.32119"W	5673.230	0°10'22.91871"	1701759.069	3077132.848	556	702210.152	77948.501	5723.990	CDOT Type 2 monument "CP 556"

Double Based Project Control from Points 553 and 556 (Benched elevations)

Point	Northing (Project)	Easting (Project)	Elevation NAVD'88	Description
560	702936.136	78667.091	5724.194	CDOT Type 5(s) monument "CDOT CP 560"
561	702856.599	78582.068	5716.575	CDOT Type 5(s) monument "CDOT CP 561"
562	702731.576	78653.431	5712.396	CDOT Type 5(s) monument "CDOT CP 562"
563	702734.057	78367.806	5740.911	# 5 Rebar
564	702702.301	78806.481	5731.745	# 5 Rebar
565	702656.635	78541.206	5710.417	# 5 Rebar

Double Based Aliquot Evidence from Points 551 and 553 (GPS derived elevations)

Point	Northing (Project)	Easting (Project)	Elevation NAVD'88	Description
801	702926.501	79015.055	5742.382	2.5" Alum Cap, Stamped 1/4 28-27
802	700278.219	76405.263	5684.142	2" Alum Cap, Stamped, Kurt O. Linn Inc, T3S, R70W, 1/4 S28 S33, 1997, PLS NO. 14112
803	700241.551	79028.369	5682.291	2" Alum Cap, Stamped, RMC, T3S, R70W, 28/27, 33/34, LS 9329

Local site settings
Project latitude: 39°45'35.65150"N
Project longitude: 105°13'31.19593"W
Project height: 5671.310sft
Ground scale factor: 1.0002650689
False northing offset: 999548.908sft
False easting offset: 2999184.325sft