



Sheet Revisions		
Date	Description	Initials
5/14/08	Revised sheets (RW) 2.03,2.04,2.05,4.01,4.02 (RW) 5.01,5.02,5.04,6.01	CGG
2/15/08	Revised sheets (RW) 2.03,4.02,5.02,5.03,5.04 (RW) 6.01	CGG
2/10/09	Revised sheets (RW) 2.02,4.01,5.03,6.01	CGG

Sheet Revisions		
Date	Description	Initials
01/17/11	Revised sheets (RW) 2.01,2.02,2.05,4.02,5.02, 5.03,5.04, & 6.01	CGG
01/17/11	Added sheet (RW) 5.05	CGG
03/9/11	Added sheet (RW) 2.06	CGG

Sheet Revisions		
Date	Description	Initials
05/3/11	Revised sheets (RW) 2.05,4.01,5.03,6.01	CGG
05/31/11	Revised sheets (RW) 2.05,5.03,6.01	CGG

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans			
Title Sheet			
Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code: 13429	Last Mod. Date: 5-3-2011	Subset Sheets: 1 of 1	Sheet No.: RW 1.01

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

"AMENDED" RIGHT OF WAY PLANS OF PROPOSED FEDERAL AID PROJECT NO. NH 0852-086 Phase III STATE HIGHWAY NO. 85 DOUGLAS COUNTY RIGHT OF WAY

SHEET NO.	INDEX OF SHEETS
RW 1.01	(1) Title Sheet
RW 2.01-RW 2.06	(6) Tabulation of Properties
RW 3.01-RW 3.06	(6) Control Diagram
RW 4.01-RW 4.07	(7) Monumentation Sheets
RW 5.01-RW 5.05	(4) Plan Sheets
RW 6.01	(1) Ownership Sheets
M-100-1	(3) Standard Symbols
M-629-1	(2) Survey Monuments
(30) Total Sheets	

SCALES OF ORIGINAL 11x17 DRAWINGS
PLAN SHEETS 1"=100'
OWNERSHIP MAP 1"=400'
R.O.W. LENGTH OF PROJECT = 0.7 Miles
Const. LENGTH OF PROJECT = 1.0 Miles

Beginning of Construction
Project: NH 0852-095
Project Code: 14976
Station: 200+00.0
M.P.: 196.4

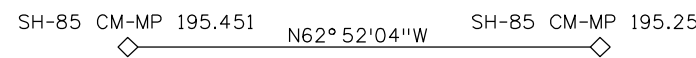
End of Construction
Project: NH 0852-095
Project Code: 14976
Station: 255+00.0
M.P.: 195.4

Beginning of Right of Way
Project: NH 0852-086 Phase III
Project Code: 13429
Station: 219+77.3
M.P.: 196.1

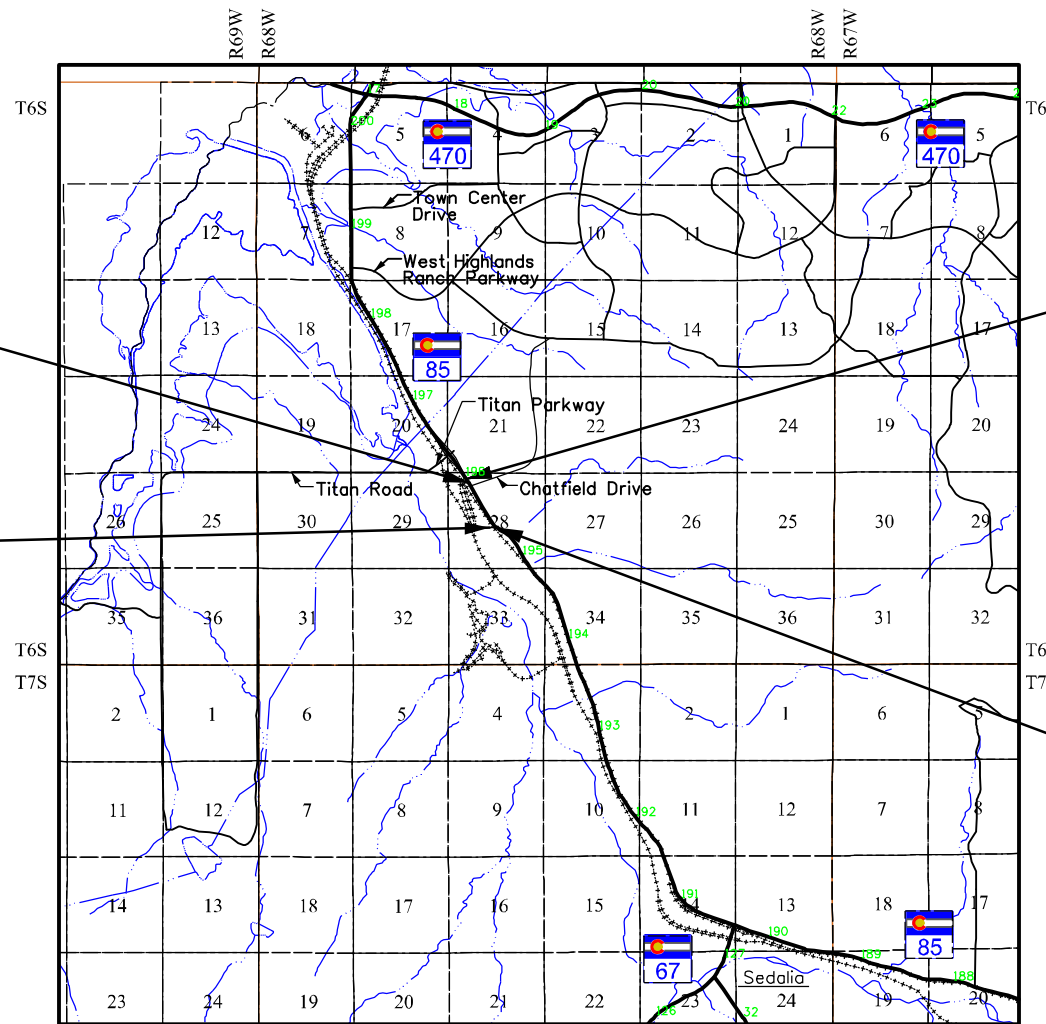
End of Right of Way
Project: NH 0852-086 Phase III
Project Code: 13429
Station: 257+36.5
M.P.: 195.4

BASIS OF BEARINGS

BASIS OF BEARINGS: Bearings used in the calculations of coordinates are based on a grid bearing of N62°52'04"W from SH-85 CM-MP 195.25 and SH-85 CM-MP 195.451. Both monuments are CDDT Type II, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN).



February, 2008
Region 1
Project Code: 13429



PROJECT LOCATION MAP

Approximate Scale



DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

AUTHORIZED:

DATE

DIVISION ADMINISTRATOR

Colorado Department of Transportation



18500 East Colfax Avenue
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Region 1

KAW

Sheet Revisions		
Date	Description	Initials
01/17/11	Added TE-94, AC-94	CGG
03/9/11	Added sheet (RW) 2.06	CGG

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

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Right of Way Plans

Tabulation of Properties

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	3-9-2011	RW 2.01 to RW 2.05	RW 2.01

Parcel No.	Owner	Site Address	Location	Area In Square Feet (Acres)					Book and Page No. And/Or Reception No.	Title Commitment No.	Remarks
				Area Of Parcel	Existing ROW	Net Area	Remainder Left	Remainder Right			
			T. 6 S., R. 68 W., 6th P.M. Douglas County, Colorado								
91	Chatfield East Property Owners Association, Inc. a Non-Profit Corporation 6576 West Lakeside Court Littleton, CO 80125 (303) 791-6151		Tract A Chatfield East in NW1/4 of Sec. 28	2,025 sf 0.046 (ac)		2,025 sf 0.046 (ac)	5,240,421± sf 120.30± (ac)		2009039701	NF00401	
AC-91	(Same as above)	(Same as above)	(Same as above)						2009039701		
92	Ralph C. Andersen P.O. Box 86 Littleton, CO 80160	9842 N US Highway 85 Littleton, CO	Tract in N1/2 of the NW1/4 of Sec. 28	129,323 sf 2,969 (ac)		129,323 sf 2,969 (ac)	1,239,098± sf 28.45± (ac)		2009037330	NF00402	
TE-92	(Same as above)	(Same as above)	(Same as above)	2631 sf 0.060 (ac)		2631 sf 0.060 (ac)	See Par 92		Not Recorded		
AC-92	(Same as above)	(Same as above)	(Same as above)						2009037330		
93	David Lewis and JoLynne Lewis 2340 South Broadway Denver, CO 80210	9654 N US Highway 85 Littleton, CO	Tract in SE 1/4 NW1/4 of Sec. 28	111,843 sf 2,568 (ac)		111,843 sf 2,568 (ac)	0± sf 0.00± (ac)		2008075171	NF00403	
93R	(Same as above)	(Same as above)	(Same as above)	113,751 sf 2,611 (ac)		113,751 sf 2,611 (ac)	See Par 93		2008075171		
TE-93	(Same as above)	(Same as above)	(Same as above)	1855 sf 0.043 (ac)		1855 sf 0.043 (ac)	See Par 93		Not Recorded		Temporary Easement acquired for construction of a driveway
AC-93	(Same as above)	(Same as above)	(Same as above)						2008075171		
94	Bill J. Fritts 807 Hercules Place Colorado Springs, CO 80906	9624 N US Highway 85 Littleton, CO	Tract in SE 1/4 NW 1/4 of Sec. 28	2,829 sf 0.065 (ac)		2,829 sf 0.065 (ac)	48,540± sf 1.11± (ac)		2009055549	NF00404	
TE-94	(Same as above)	(Same as above)	(Same as above)	9,999 sf 0.230 (ac)		9,999 sf 0.230 (ac)	See Par 94		Not Recorded		Temporary Easement acquired for construction of a driveway
AC-94	(Same as above)	(Same as above)	(Same as above)								

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Colorado Department of Transportation



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Region 1

KAW

Sheet Revisions		
Date	Description	Initials
2/10/09	Deleted Parcels 104,104R,AC-104,105,105R AC-105	CGG
01/17/11	Added Parcel 95R. Revised AC-95	CGG
03/9/11	Added sheet (RW) 2.06	CGG

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Prepared By:



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Right of Way Plans

Tabulation of Properties

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	3-9-2011	RW 2.01 to RW 2.06	RW 2.02

Parcel No.	Owner	Site Address	Location	Area In Square Feet (Acres)					Book and Page No. And/Or Reception No.	Title Commitment No.	Remarks
				Area Of Parcel	Existing ROW	Net Area	Remainder Left	Remainder Right			
			T. 6 S., R. 68 W., 6th P. M. Douglas County, Colorado								
95	South Santa Fe Joint Venture 9888 Whistling Elk Drive Littleton, CO 80127		Tract in SE 1/4 NW 1/4 of Sec. 28	136,195 sf 3.127 (ac)		136,195 sf 3.127 (ac)		0± sf 0.00± (ac)	Douglas, CO Court Case #2009CV1277	NF00405	
95R	(Same as above)		(Same as above)	391,386 sf 8.985 (ac)		391,386 sf 8.985 (ac)			not recorded as of 1/17/2011		
AC-95 Rev	(Same as above)		(Same as above)						(Same as above)		
96	CIG MC LLC, a Colorado limited liability company 1600 Wynkoop Street, Suit 200 Denver, CO 80202		Tract in NE1/4 NE1/4 SW1/4 lying NE of SH 85, Sec. 28	44,105 sf 1.013 (ac)		44,105 sf 1.013 (ac)	0± sf 0.00± (ac)		2009021382	NF00406	
104	CIG MC LLC, a Colorado limited liability company 1600 Wynkoop Street, Suit 200 Denver, CO 80202		Tract in NE1/4 NE1/4 SW1/4 of Sec. 28	40,322 sf 0.926 (ac)		40,322 sf 0.926 (ac)	0± sf 0.00± (ac)			NF00407	
104R	(Same as above)		(Same as above)	43,570 sf 1.000 (ac)		43,570 sf 1.000 (ac)			See Par 104		
AC-104	(Same as above)		(Same as above)								
105	CIG MC LLC, a Colorado limited liability company 1600 Wynkoop Street, Suit 200 Denver, CO 80202		Tract in NE1/4 NE1/4 SW1/4 of Sec. 28	23,436 sf 0.538 (ac)		23,436 sf 0.538 (ac)	0± sf 0.00± (ac)			NF00407	
105R	(Same as above)		(Same as above)	31,512 sf 0.719 (ac)		31,512 sf 0.719 (ac)			See Par 105		
AC-105	(Same as above)		(Same as above)								

Deleted Parcels 104, 104R & AC-104

Deleted Parcels 105, 105R & AC-105

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Colorado Department of Transportation



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Region 1

KAW

Sheet Revisions		
Date	Description	Initials
5/14/08	Revised AC-108	CGG
2/15/08	Revised TE-106 and TE-107	CGG
03/9/11	Added sheet (RW) 2.06	CGG

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

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Right of Way Plans

Tabulation of Properties

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	3-9-2011	RW 2.01 to RW 2.06	RW 2.03

Parcel No.	Owner	Site Address	Location	Area In Square Feet (Acres)					Book and Page No. And/Or Reception No.	Title Commitment No.	Remarks
				Area Of Parcel	Existing ROW	Net Area	Remainder Left	Remainder Right			
			T. 6 S., R. 68 W., 6th P.M. Douglas County, Colorado								
106	Wayne M. Crawford and Gloria P. Crawford	9545 N US Highway 85 Littleton, CO	Tract in SE1/4 NW1/4 of Sec 28	2,379 sf 0.055 (ac)		2,379 sf 0.055 (ac)		38,421± sf 0.88± (ac)	2009037333	NF00409	
	7345 East Hinsdale Place Englewood, CO 80112 (303) 773-6559										
TE-106 Rev	(Same as above)	(Same as above)	(Same as above)	6,108 sf 0.140 (ac)		6,108 sf 0.140 (ac)		See Par 106	Not Recorded		Temporary Easement acquired for construction of a driveway
AC-106	(Same as above)	(Same as above)	(Same as above)						2009037333		
TE-107 Rev	Chatfield Mini Shops, LLC, a Colorado Limited Liability Company	9615 N US Highway 85 Littleton, CO	Tract in SE1/4 NW1/4 of Sec 28	7,345 sf 0.169 (ac)		7,345 sf 0.169 (ac)		50,372± sf 1.16± (ac)	Douglas, CO Court Case #2009CV2030	NF00410	Temporary Easement acquired for construction of a driveway
	7299 Rainbow Creek Road Sedalia, CO 80135 (303) 791-1881										
AC-107	(Same as above)	(Same as above)	(Same as above)						(Same as above)		
TE-108	Chatfield Mini Shops, LLC, a Colorado Limited Liability Company	9615 N US Highway 85 Littleton, CO	Tract in SE1/4 NW1/4 of Sec 28	1,508 sf 0.035 (ac)		1,508 sf 0.035 (ac)		53,790± sf 1.23± (ac)	Douglas, CO Court Case #2009CV2030	NF00410	Temporary Easement acquired for construction of a driveway
	7299 Rainbow Creek Road Sedalia, CO 80135 (303) 791-1881										
AC-108 Rev	(Same as above)	(Same as above)	(Same as above)						(Same as above)		

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Colorado Department of Transportation



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Region 1

KAW

Sheet Revisions		
Date	Description	Initials
5/14/08	Revised 109,TE-109,AC-109,110,TE-110 AC-110,111	CGG
5/14/08	Added PE-109, Deleted TE-109A	CGG
03/9/11	Added sheet (RW) 2.06	CGG

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Prepared By:



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Right of Way Plans

Tabulation of Properties

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	3-9-2011	RW 2.01 to RW 2.06	RW 2.04

Parcel No.	Owner	Site Address	Location	Area In Square Feet (Acres)					Book and Page No. And/Or Reception No.	Title Commitment No.	Remarks
				Area Of Parcel	Existing ROW	Net Area	Remainder Left	Remainder Right			
			T. 6 S., R. 68 W., 6th P. M. Douglas County, Colorado								
109 Rev	Bernice May Svigel, as to an undivided one-half interest and Joseph Svigel Jr. Family Trust dated March 1, 2002, as to an undivided one-half interest 5390 South Windermere Street Littleton, CO 80120 (303) 794-5203 (home) (303) 798-3490 (work)	9635 N US Highway 85 Littleton, CO	Tract in SE1/4 NW1/4 of Sec 28	1,096 sf 0.025 (ac)		1,096 sf 0.025 (ac)		89,788± sf 2.06± (ac)	2009021383	NF00412	
PE-109	(Same as above)	(Same as above)	(Same as above)	168 sf 0.004 (ac)		168 sf 0.004 (ac)		See Par 109	2009021384		Permanent Easement acquired for construction of and maintenance to rip-rap placed for CBC
TE-109 Rev	(Same as above)	(Same as above)	(Same as above)	6,964 sf 0.160 (ac)		6,964 sf 0.160 (ac)		See Par 109	Not Recorded		Temporary Easement acquired for construction of a driveway, fence and roadway improvements
AC-109 Rev	(Same as above)	(Same as above)	(Same as above)						2009021383		
110 Rev	GJO Properties, LLC, a Colorado Limited Liability Company 5231 S. Emporia Ct. Greenwood Village, CO 80111	9635 Highway 85 Littleton, CO	Tract in SE 1/4 NW1/4 of Sec 28	2,248 sf 0.052 (ac)		2,248 sf 0.052 (ac)		80,721± sf 1.85± (ac)	2009027320	NF00413	
TE-110 Rev	(Same as above)	(Same as above)	(Same as above)	3,481 sf 0.080 (ac)		3,481 sf 0.080 (ac)		See Par 110	Not Recorded		Temporary Easement acquired for construction of a driveway, fence and roadway improvements
AC-110 Rev	(Same as above)	(Same as above)	(Same as above)						2009027320		
111 Rev	GJO Properties, LLC, a Colorado Limited Liability Company 5231 S. Emporia Ct. Greenwood Village, CO 80111		Tract in NW1/4 SE1/4 NW1/4 of Sec 28	946 sf 0.022 (ac)		946 sf 0.022 (ac)		8,595± sf 0.20± (ac)	2009027320	NF00413	

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Colorado Department of Transportation



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Region 1

KAW

Sheet Revisions		
Date	Description	Initials
5/14/08	Revised TE-111, AC-111, 112, AC-112	CGG
01/17/11	Deleted AC-701, Added Sold to Information Parcel 701R	CGG
03/9/11	Added sheet (RW) 2.06	CGG

Sheet Revisions		
Date	Description	Initials
05/31/11	Deleted AC-139	CGG

Sheet Revisions		
Date	Description	Initials

Prepared By:



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Right of Way Plans

Tabulation of Properties

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	6-20-2011	RW 2.01 to RW 2.06	RW 2.05

Parcel No.	Owner	Site Address	Location	Area In Square Feet (Acres)					Book and Page No. And/Or Reception No.	Title Commitment No.	Remarks
				Area Of Parcel	Existing ROW	Net Area	Remainder Left	Remainder Right			
			T. 6 S., R. 68 W., 6th P.M. Douglas County, Colorado								
TE- 111 Rev	GJO Properties, LLC, a Colorado Limited Liability Company 5231 S. Emporia Ct. Greenwood Village, CO 80111		Tract in NW1/4 SE1/4 NW1/4 of Sec 28	806 sf 0.018 (ac)		806 sf 0.018 (ac)		See Par 111	Not Recorded		Temporary Easement acquired for construction of a fence and roadway improvements
AC- 111 Rev	(Same as above)		(Same as above)						2009027320		
112 Rev	BNSF Railway Company, a Delaware corporation, as successor in interest to the Atchison, Topeka and Santa Fe Railway Company, A Delaware corporation Property Tax Department PO Box 961089 Fort Worth, TX 76161-0089	6990 Titan Rd Littleton, CO	Tract in NW1/4 Sec. 28	85,594 sf 1.965 (ac)		85,594 sf 1.965 (ac)		318,64± sf 7.32± (ac)	Douglas, CO Court Case #2009CV1441	NF00414	
AC- 112 Rev	(Same as above)	(Same as above)	(Same as above)						(Same as above)		
139	Charles E. Spath and Lillian R. Spath 3 Meadowbrook Circle Littleton, CO 80120 (303) 798-4655		Tract in SE1/4 NW 1/4 of Sec 28	2,424 sf 0.056 (ac)		2,424 sf 0.056 (ac)	0± sf 0.00± (ac)		2009036823	NF00415	
139R	(Same as above)		(Same as above)	5,941 sf 0.136 (ac)		5,941 sf 0.136 (ac)	See Par 139		2009036824	See Par 139	
AC- 139	(Same as above)		(Same as above)								Deleted AC-139

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Colorado Department of Transportation



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Region 1

KAW

Sheet Revisions		
Date	Description	Initials
5/14/08	Revised TE-111, AC-111, 112, AC-112	CGG
01/17/11	Deleted AC-701, Added Sold to Information Parcel 701R	CGG
03/9/11	Added sheet (RW) 2.06	CGG

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Prepared By:



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Right of Way Plans

Tabulation of Properties

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	3-9-2011	RW 2.01 to RW 2.06	RW 2.06

Parcel No.	Owner	Site Address	Location	Area In Square Feet (Acres)					Book and Page No. And/Or Reception No.	Title Commitment No.	Remarks
				Area Of Parcel	Existing ROW	Net Area	Remainder Left	Remainder Right			
			T. 6 S., R. 68 W., 6th P.M. Douglas County, Colorado								
701	Thomas Land	9636 N. Highway 85 Littleton, CO 80120	Tract in SE 1/4 NW 1/4 of Sec 28	35,900 sf 0.824 (ac)		35,900 sf 0.824 (ac)	0± sf 0.00± (ac)		2009018437	NF00416	
701R	(Same as above)	(Same as above)	(Same as above)	7,671 sf 0.176 (ac)		7,671 sf 0.176 (ac)	See Par 701		2009018437		CDOT to Bill J. Fritts - Rec. No. 2010055961
AC-701	(Same as above)	(Same as above)	(Same as above)						2009018437		Deleted AC-701

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Sheet Revisions

Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 27, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram

Title Sheet

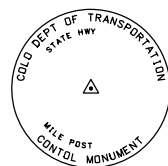
Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets	Sheet No.
13429		RW 3.01 of RW 3.06	RW 3.01

SUPPLEMENTAL PROJECT CONTROL DIAGRAM

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N62°52'04"W from US-85 CM-MP 195.25 and US-85 CM-MP 195.451. Both monuments are CDDOT Type II, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey base on the Colorado High Accuracy Reference Network (CHARN).

Basis of Elevations: Project elevations are based on NOAA Bench Mark K 23 1929, PID: KK0203, a standard bench mark disk set on top of a concrete monument, with a NAVD elevation of 5984.83ft. K 23 is a first order benchmark.

Project Narrative: This Project Control Diagram was prepared to fill the gaps within the existing project control. It was my intent to only establish new monumentation and coordinates on the control points we set to fill the gaps. While performing the GPS survey we found some minor differences in horizontal and vertical positions reported by Mountain Surveying & Mapping. The remaining control points (noted as found) were previously established by Mountain Surveying & Mapping, Inc., and recorded in Douglas County on November 19, 2002 at LSP No. 3183.



Typical Control Monument Cap
Not to Scale

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(92) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates was 1.00030502381. The resulting project coordinates were truncated by 200,000m in the Northing and 400,000m in the Easting after converting from state plane coordinates to project coordinates. The CHARN is based on the NAD '83(92) datum.
Project Coordinates Northing = (State Plane Coordinate Northing * 1.00030502381 - 200,000) * (3937/1200).
Project Coordinates Easting = (State Plane Coordinate Easting * 1.00030502381 - 400,000) * (3937/1200).

NOTE: This control survey is for the use of the Colorado Department of Transportation personnel. The survey is not a complete boundary survey and does not subdivide land. Title policy, title commitment, and title research were not part of this control survey, therefore, easements, rights, and restrictions of record are not shown. The verification of the physical evidence with relation to easements, rights of ways, property boundaries, and restrictions, as described in the instruments of record, were not included in this control survey.

NOTICE: According to Colorado State 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 hereon.

CM-MP - Control Point Monuments set by CDDOT. They are CDDOT Type 2 monuments, a 3 1/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

NOTE: Refer to the most current M-629-1 Survey Monuments of the Standard Plans, Colorado Department of Transportation, M & S Standards for survey monument descriptions. Refer to the most current M-100-1 Standard Symbols of the Standard Plans, found in the Colorado Department of Transportation M & S Standards for standard symbol definitions.

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, David A. Stewart, a Professional Land Surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation 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.

David A. Stewart PLS 28664

CONSTRUCTION SURVEYING AND MONUMENTATION REQUIREMENTS:

- 1). This Control Survey Diagram represents the horizontal and vertical control for the project established by the Division. 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.
- 2). All Type I and Type II monuments shall be set flush with the ground. Witness posts shall be installed 1 (one) foot from and facing all Type I and Type II monuments, or as directed by the Project Engineer.
- 3). Installation of Type III and Type III-A monuments shall be completed in the same day that installation is commenced. Under no circumstances shall holes in the roadway be left overnight.
- 4). When installing Type III-A monuments, the aluminum monument box shall be positively secured in the roadway surface. The monument box shall be caulked with asphalt caulking between the monument box and the edges of the roadway surface to provide a positive moisture barrier around the monument box.
- 5). Control survey procedures, statistical analysis, and accuracy obtained for horizontal and vertical control shall be documented in the field book.
- 6). Legible copies of the field books (electronic data printouts may be submitted with approval from the Project Engineer) shall be submitted to the Project Engineer for review on a monthly basis.
- 7). It is ultimately the prime Contractor's responsibility to insure that these requirements, as well as any contained in the CDDOT specifications, project special provisions, and CDDOT Survey Manual are fulfilled under this contract.
- 8). The minimum staking intervals for each item are described on the plans or in the CDDOT Survey Manual. If the contractor wishes to reduce the minimum intervals, a Contract Modification Order must be negotiated and the cost of the item reduced accordingly.
- 9). Whenever the contract includes the setting of CDDOT Type II monuments, a Project Control Diagram, signed and sealed by the PLS in responsible charge, shall be submitted to the Engineer. A MicroStation drawing on CD shall accompany the submittal.



Sheet Revisions

Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 27, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram

Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets	Sheet No.
13429		RW 3.02 of RW 3.06	RW 3.02

G E O D E T I C C O O R D I N A T E S U M M A R Y T A B L E (A D J U S T E D F I E L D D A T A)

POINT NAME	LATITUDE (N)	LONGITUDE (E)	SPCN (502) METERS	SPCE (502) METERS	ELLIP. (M)	MAPPING ANGLE	SCALE
US 85 CM -M P 193.31**	39° 28' 19.89742" N	104° 59' 20.52698" W	486852.321	958367.030	1723.221	0° 19' 20.13642"	1.000261856
US 85 CM -M P 193.50**	39° 28' 28.19870" N	104° 59' 26.41376" W	487107.529	958224.896	1722.001	0° 19' 16.42369"	1.000262117
US 85 CM -M P 193.70**	39° 28' 37.59400" N	104° 59' 29.92434" W	487396.794	958139.372	1718.499	0° 19' 14.20960"	1.000262415
US 85 CM -M P 193.81**	39° 28' 43.67723" N	104° 59' 32.80303" W	487584.007	958069.526	1716.327	0° 19' 12.39404"	1.000262609
US 85 CM -M P 194.01**	39° 28' 53.56888" N	104° 59' 37.19872" W	487888.463	957962.776	1713.220	0° 19' 09.62173"	1.000262926
US 85 CM -M P 194.14*	39° 29' 02.37832" N	104° 59' 41.80406" W	488159.520	957851.209	1707.260	0° 19' 06.71719"	1.000263210
US 85 CM -M P 194.25	39° 29' 13.09384" N	104° 59' 45.70787" W	488489.452	957756.088	1710.889	0° 19' 04.25510"	1.000263558
US 85 CM -M P 194.54	39° 29' 22.42550" N	104° 59' 51.59154" W	488776.447	957613.902	1710.326	0° 19' 00.54433"	1.000263864
US 85 CM -M P 194.70*	39° 29' 28.58113" N	104° 59' 57.83317" W	488965.454	957463.713	1712.850	0° 18' 56.60780"	1.000264067
US 85 CM -M P 194.90**	39° 29' 36.85336" N	105° 00' 07.26951" W	489219.319	957236.840	1711.349	0° 18' 50.65640"	1.000264340
US 85 CM -M P 195.10	39° 29' 48.49343" N	105° 00' 15.54610" W	489577.200	957037.125	1710.081	0° 18' 45.43644"	1.000264728
US 85 CM -M P 195.25*	39° 29' 54.02727" N	105° 00' 22.03397" W	489747.012	956881.187	1712.506	0° 18' 41.34460"	1.000264914
US 85 CM -M P 195.451	39° 29' 56.94520" N	105° 00' 29.28663" W	489836.056	956707.420	1708.328	0° 18' 36.77043"	1.000265012
US 85 CM -M P 195.65	39° 30' 01.70973" N	105° 00' 34.60329" W	489982.301	956579.603	1705.966	0° 18' 33.41726"	1.000265172
US 85 CM -M P 195.78	39° 30' 07.42034" N	105° 00' 38.98695" W	490157.844	956473.924	1703.404	0° 18' 30.65254"	1.000265366
US 85 CM -M P 195.85	39° 30' 12.98143" N	105° 00' 43.16141" W	490328.804	956373.272	1701.134	0° 18' 28.01975"	1.000265555
US 85 CM -M P 196.00*	39° 30' 21.31123" N	105° 00' 49.59702" W	490584.859	956218.150	1698.558	0° 18' 23.96088"	1.000265839
US 85 CM -M P 196.18	39° 30' 30.68073" N	105° 00' 55.87265" W	490873.001	956066.689	1697.400	0° 18' 20.00290"	1.000266161
US 85 CM -M P 196.40	39° 30' 36.95956" N	105° 01' 05.25055" W	491065.441	955841.638	1697.229	0° 18' 14.08836"	1.000266377
KK 23 CHARN *	39° 25' 41.15066" N	104° 54' 30.69573" W	481998.926	965326.062	1806.929	0° 22' 22.92996"	1.000257172

* D denotes monuments constrained horizontally for adjustment of the GPS data.

** D denotes monuments not included in the fast-static survey because they checked within CDOT tolerances.

**PROJECT COORDINATE SUMMARY TABLE IN FEET
(ADJUSTED FIELD DATA)**

POINT NAME	NORTHING	EASTING	ELEV.	DESCRIPTION
US 85 CM-MP 193.31	941601.870	1832868.230	5707.73	FOUND CDOT TYPE II
US 85 CM-MP 193.50	942439.410	1832401.770	5703.73	FOUND CDOT TYPE II
US 85 CM-MP 193.70	943388.740	1832121.090	5692.28	FOUND CDOT TYPE II
US 85 CM-MP 193.81	944003.140	1831891.870	5685.16	FOUND CDOT TYPE II
US 85 CM-MP 194.01	945002.310	1831541.530	5674.85	FOUND CDOT TYPE II
US 85 CM-MP 194.14	945891.880	1831175.400	5655.39	FOUND CDOT TYPE II
US 85 CM-MP 194.25	946974.660	1830863.220	5667.34	SET CDOT TYPE II
US 85 CM-MP 194.54	947916.530	1830396.590	5665.49	FOUND CDOT TYPE II
US 85 CM-MP 194.70	948536.820	1829903.700	5673.72	FOUND CDOT TYPE II
US 85 CM-MP 194.90	949369.960	1829159.130	5668.76	FOUND CDOT TYPE II
US 85 CM-MP 195.10	950544.470	1828503.710	5664.67	FOUND CDOT TYPE II
US 85 CM-MP 195.25	951101.760	1827991.940	5672.52	FOUND CDOT TYPE II
US 85 CM-MP 195.451	951393.990	1827421.670	5658.79	SET CDOT TYPE II
US 85 CM-MP 195.65	951873.940	1827002.190	5650.98	FOUND CDOT TYPE II
US 85 CM-MP 195.78	952450.040	1826655.370	5642.59	SET CDOT TYPE II
US 85 CM-MP 195.85	953011.110	1826325.050	5635.13	FOUND CDOT TYPE II
US 85 CM-MP 196.00	953851.440	1825815.970	5626.69	FOUND CDOT TYPE II
US 85 CM-MP 196.18	954797.070	1825318.900	5622.90	SET CDOT TYPE II
US 85 CM-MP 196.40	955428.630	1824580.320	5622.29	FOUND CDOT TYPE II

NOTE- US 85 CM-MP 195.65 is bent to the north.
US 85 CM-MP 196.40 was set during the construction of
CDOT Proj. # STA 0852-082, Titan Pkwy. Interchange.



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Aurora, CO 80011
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Region 1 - David A. Stewart, PLS II

Sheet Revisions

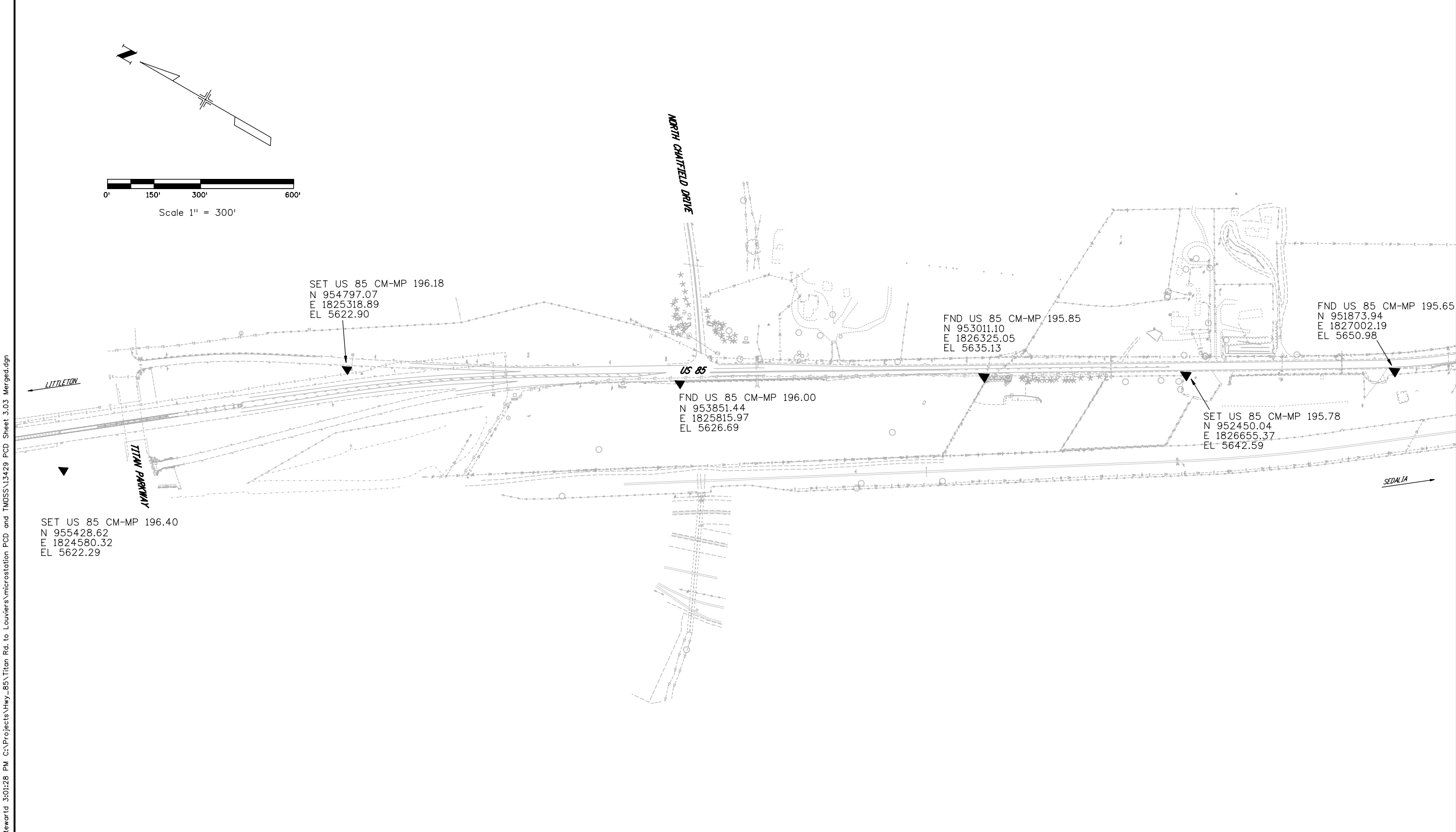
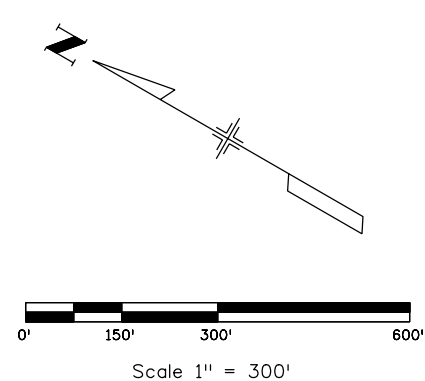
Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 27, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram

Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets	Sheet No.
13429		RW 3.03 of RW 3.06	RW 3.03



SET US 85 CM-MP 196.18
N 954797.07
E 1825318.89
EL 5622.90

FND US 85 CM-MP 195.85
N 953011.10
E 1826325.05
EL 5635.13

FND US 85 CM-MP 195.65
N 951873.94
E 1827002.19
EL 5650.98

FND US 85 CM-MP 196.00
N 953851.44
E 1825815.97
EL 5626.69

SET US 85 CM-MP 195.78
N 952450.04
E 1826655.37
EL 5642.59

SET US 85 CM-MP 196.40
N 955428.62
E 1824580.32
EL 5622.29

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Region 1 - David A. Stewart

Sheet Revisions

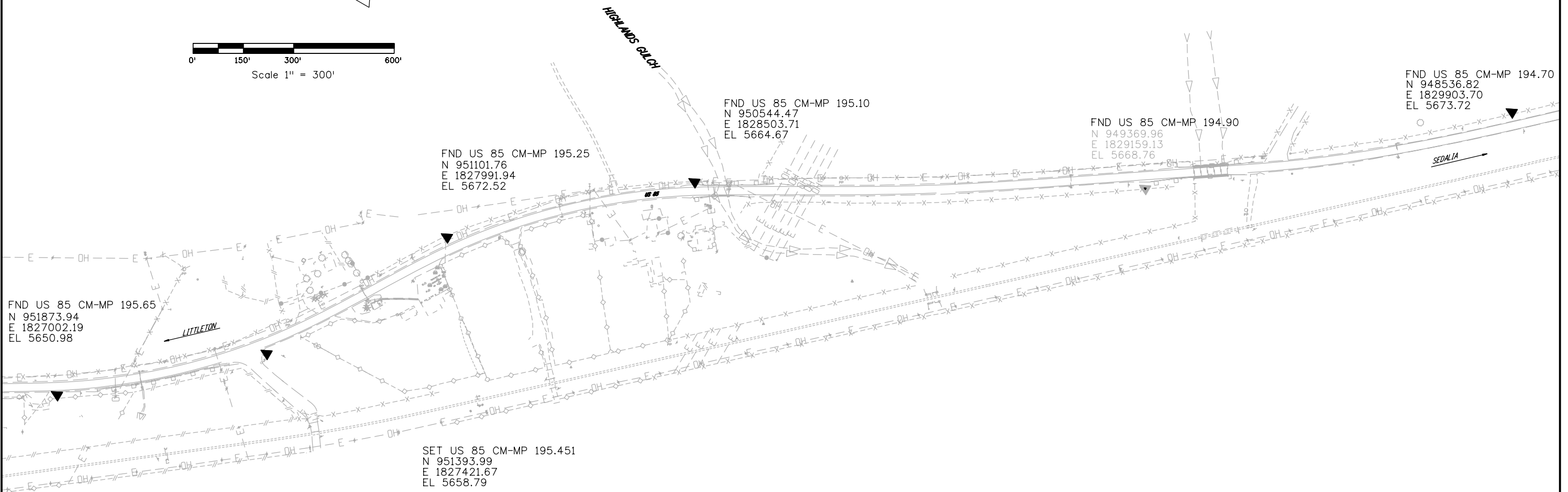
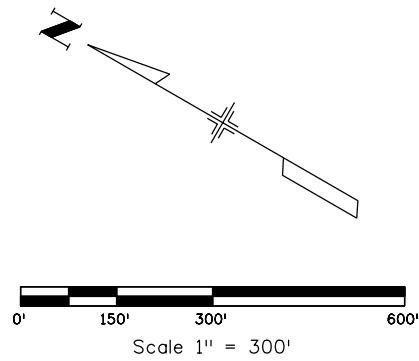
Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 20, 21, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram

Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets	Sheet No.
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Colorado Department of Transportation



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Region 1 - David A. Stewart

Sheet Revisions

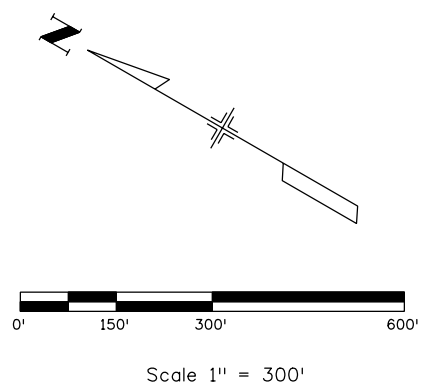
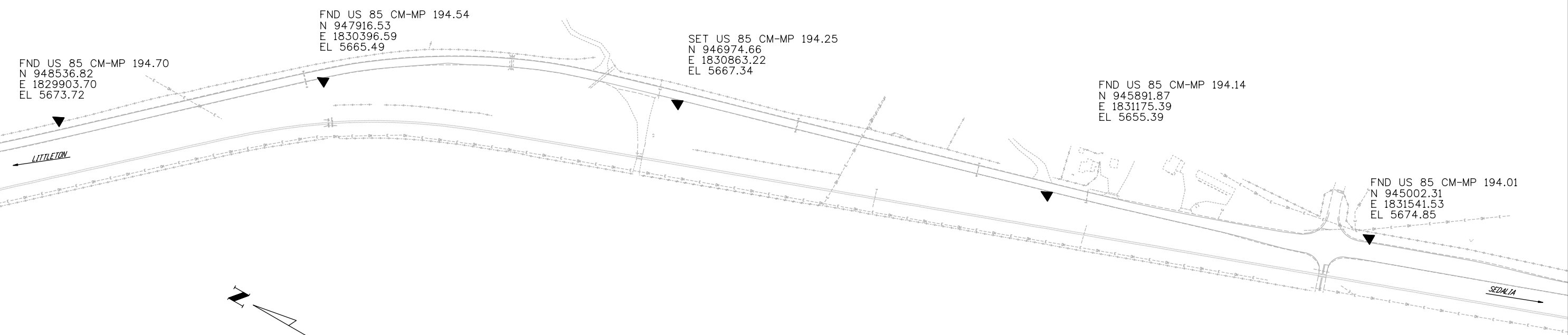
Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 20, 21, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram

Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429		RW 3.05 of RW 3.06	RW 3.05



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Region 1 - David A. Stewart

Sheet Revisions

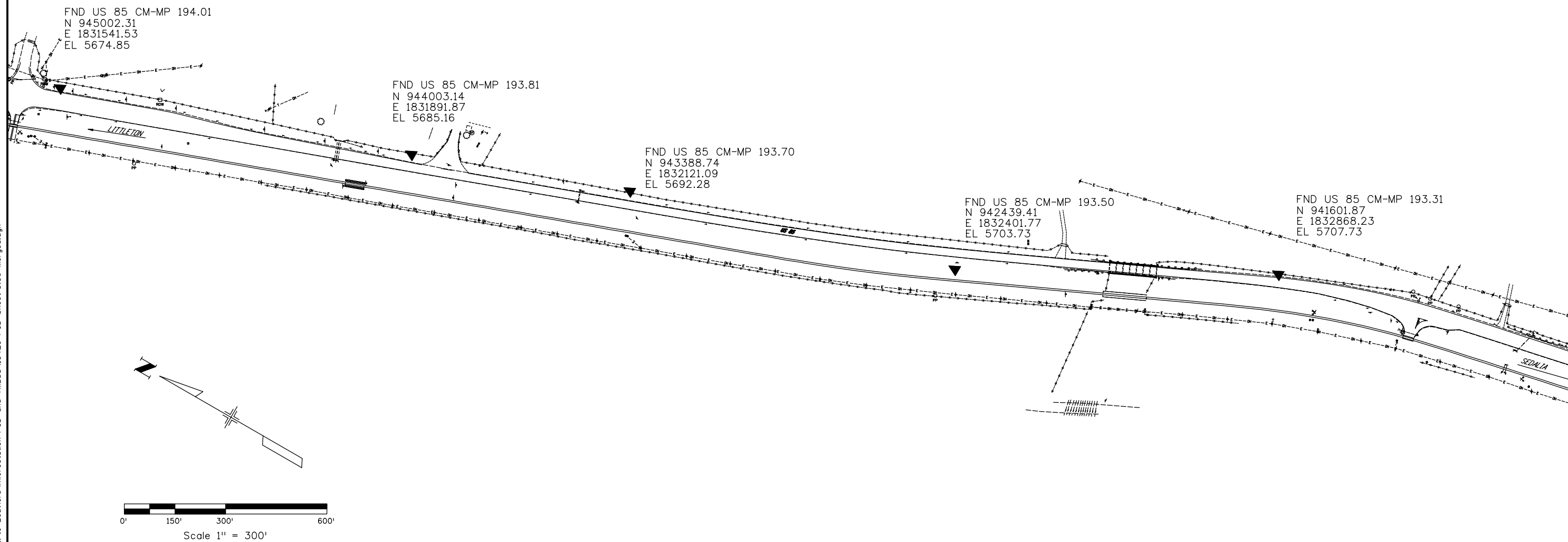
Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 20, 21, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram

Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
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Region 1

KAW

Sheet Revisions		
Date	Description	Initials
5/14/08	Revised TE pnts 472,473,475,476 & 626	CGG
5/14/08	Deleted TE pnts 477 & 478	CGG
5/14/08	Added TE pnts 481,482,483 & 627	CGG
2/15/08	Deleted TE pnts 463,464,465,466 & 467	CGG
2/15/08	Added TE pnts 484,485,486,487 & 489	CGG

Sheet Revisions		
Date	Description	Initials
01/17/11	Added TE pnts 751,752,753, & 754	CGG

Sheet Revisions		
Date	Description	Initials

Prepared By:



Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429	1-17-2011	RW 4.01 to RW 4.07	RW 4.02

□ ROW
○ PP

TABULATION OF FOUND ROW MARKERS & PROPERTY PINS			
Point No.	Northing	Easting	Description
3077	952672.01	1826523.15	See Sheet RW 4.07
3081	952940.98	1826439.58	See Sheet RW 4.07
3089	951932.84	1826959.74	See Sheet RW 4.07
3090	951725.03	1827102.68	See Sheet RW 4.07
3091	951680.08	1827137.23	See Sheet RW 4.07
3092	951680.66	1827215.22	See Sheet RW 4.07
3093	951873.78	1827002.33	See Sheet RW 4.07
3094	952336.59	1826721.35	See Sheet RW 4.07
3206	951927.60	1826746.77	See Sheet RW 4.07
3207	951720.04	1826906.03	See Sheet RW 4.07
3208	951678.49	1826939.46	See Sheet RW 4.07
3209	951297.62	1827233.97	See Sheet RW 4.07
3210	950961.85	1827515.30	See Sheet RW 4.07
3212	951988.20	1827540.22	See Sheet RW 4.07

TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED					
Point No.	Northing	Easting	Type	Station	Offset
460	953464.54	1826227.69	TE	230+68.08	-102.48'
461	953530.08	1826247.67	TE	230+22.48	-153.61'
462	953552.47	1826174.21	TE	229+65.16	-102.50'
469	952315.77	1826735.06	TE	243+14.74	55.72'
470	952295.38	1826700.65	TE	243+15.33	95.72'
471	952338.76	1826674.97	TE	242+64.93	96.46'
473	952425.41	1826623.63	TE	241+64.07	97.95'
474	952541.12	1826905.69	TE	242+03.93	-204.32'
475	953000.63	1826285.57	TE	234+94.47	89.25'
476	952439.32	1826647.13	TE	241+63.73	69.38'
479	952559.84	1826936.87	TE	242+03.18	-240.68'
481	952672.58	1826507.81	TE	238+90.24	69.94'
482	952944.86	1826336.19	TE	235+68.43	75.00'
483	953000.66	1826301.02	TE	235+02.47	76.04'
484	951909.48	1826895.07	TE	247+40.58	125.32'
485	951990.59	1826846.32	TE	246+48.26	123.40'
486	952026.26	1826906.55	TE	246+49.47	53.41'
487	951823.46	1826946.78	TE	248+38.38	129.26'
489	951861.60	1827005.44	TE	248+39.33	59.30'
600	953000.69	1826317.06	TE	235+10.79	62.32'
626	952944.38	1826348.75	TE	235+75.36	64.52'
627	952672.20	1826519.97	TE	238+96.88	59.75'
631	952497.46	1826930.10	TE	242+53.95	-203.81'
640	952516.97	1826962.60	TE	242+53.17	-241.71'
708	951934.12	1826961.13	TE	247+55.36	56.45'
717	952337.28	1826722.32	TE	242+89.74	56.09'
720	951933.48	1826936.38	TE	247+42.67	77.60'
736	951920.98	1826932.82	TE	247+51.11	87.35'
737	951903.51	1826942.56	TE	247+70.72	88.68'
751	952620.96	1827135.89	TE	242+49.01	-443.76'
752	952557.04	1827171.40	TE	243+22.12	-442.83'
753	952553.21	1827093.54	TE	242+86.77	-373.35'
754	952465.71	1826947.75	TE	242+90.27	-203.35'

TABULATION OF SURVEY CONTROL POINTS				
Point No.	Northing	Easting	Elevation	Description
9525	951101.760	1827991.940	5672.52	SH 85 CM-MP 195.25 - FOUND CDOT TYPE II
9545	951393.990	1827421.670	5658.79	SH 85 CM-MP 195.451 - SET CDOT TYPE II
9565	951873.940	1827002.190	5650.98	SH 85 CM-MP 195.65 - FOUND CDOT TYPE II
9578	952450.040	1826655.370	5642.59	SH 85 CM-MP 195.78 - SET CDOT TYPE II
9585	953011.100	1826325.050	5635.13	SH 85 CM-MP 195.85 - FOUND CDOT TYPE II
9600	953851.440	1825815.970	5626.69	SH 85 CM-MP 196.00 - FOUND CDOT TYPE II



Sheet Revisions

Date mm/yy	Description XXXXXXXX	Initials XXX

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Prepared By:

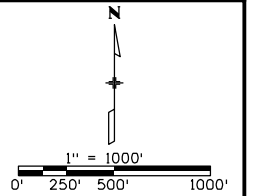


URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

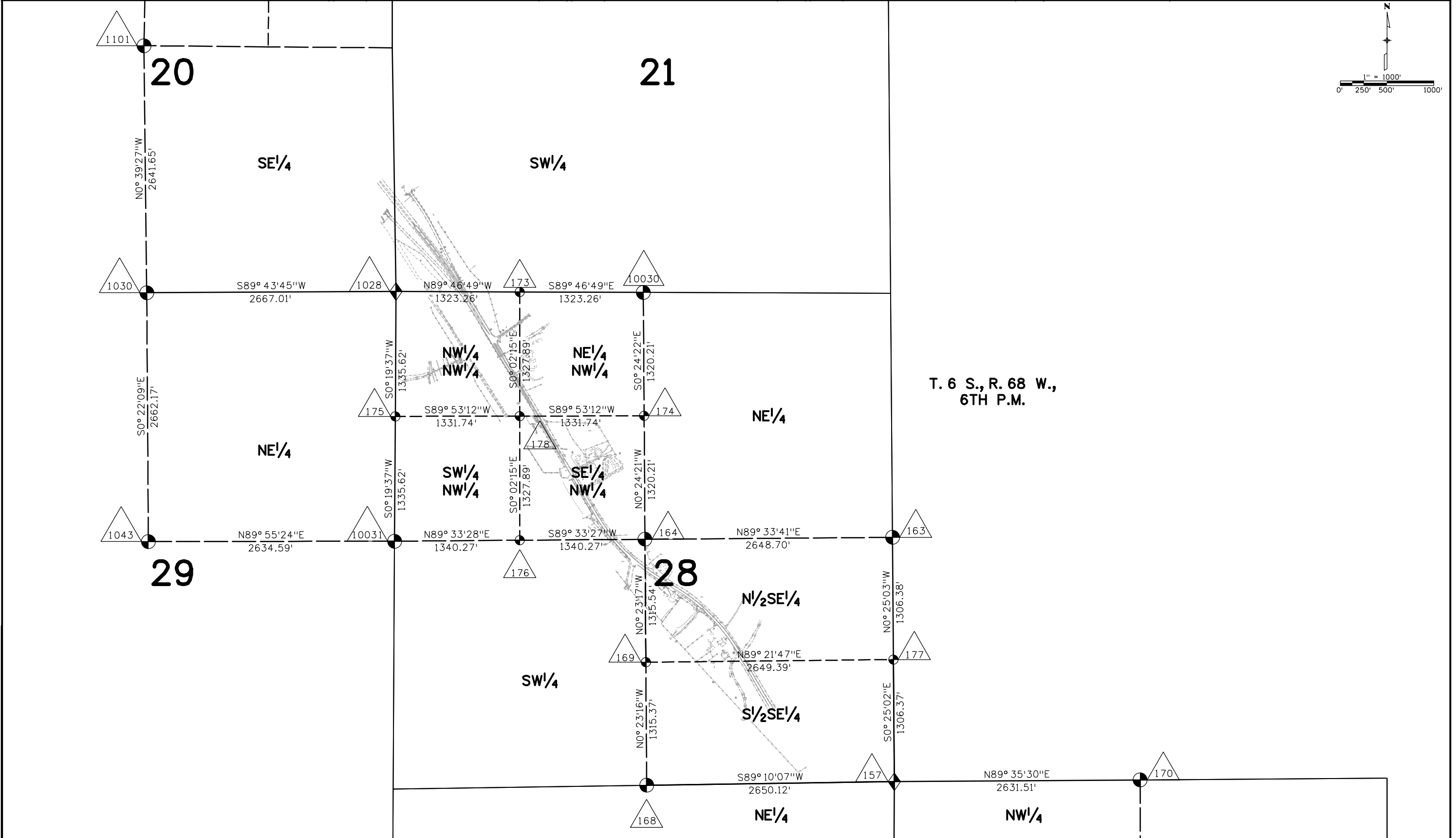
Right of Way Plans

Aliquot Section Breakdown

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	2-11-2008	RW 4.01 to RW 4.07	RW 4.03



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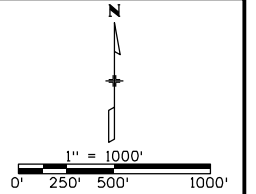
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Date	Description	Initials

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Date	Description	Initials

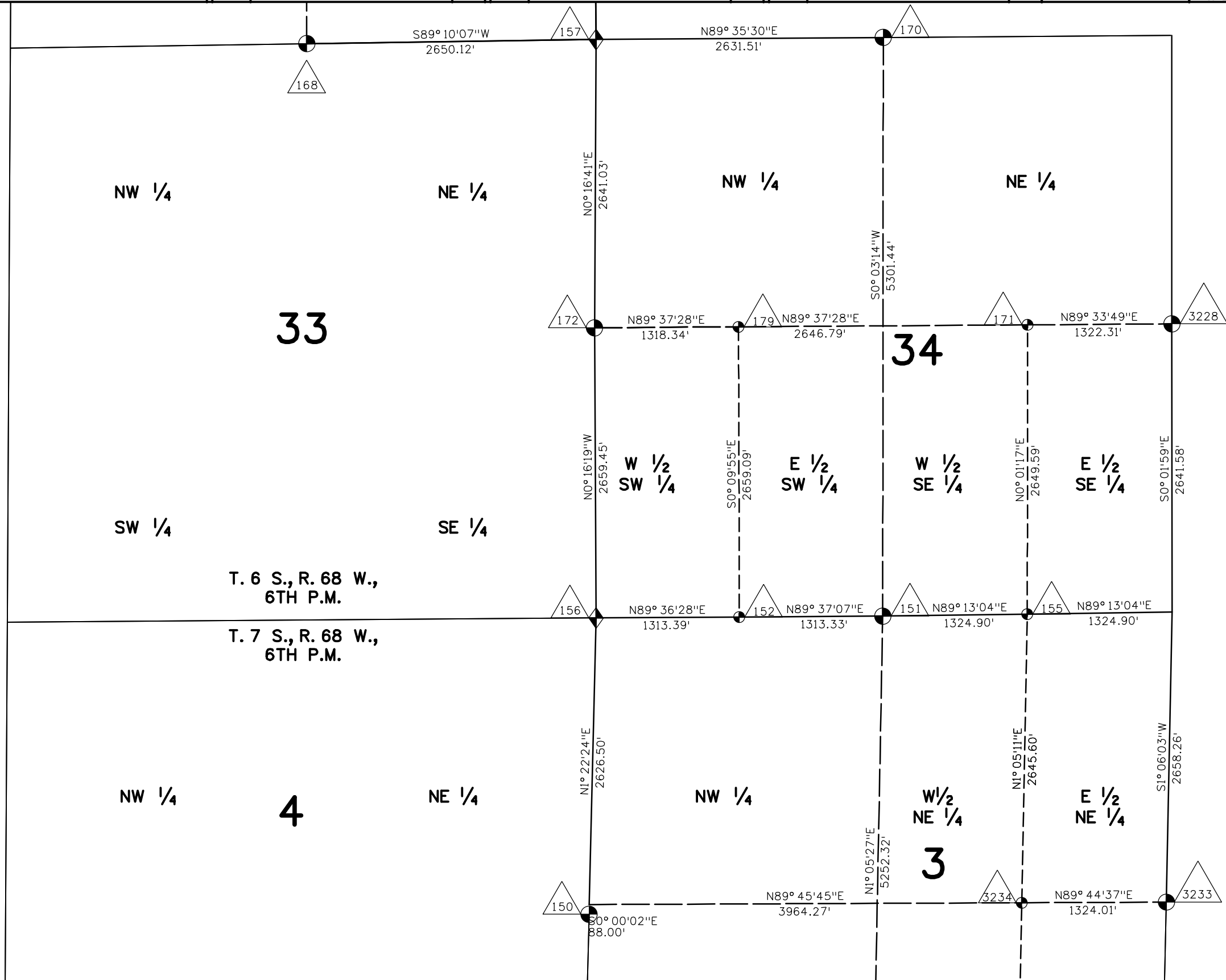
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Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	2-11-2008	RW 4.01 to RW 4.07	RW 4.04



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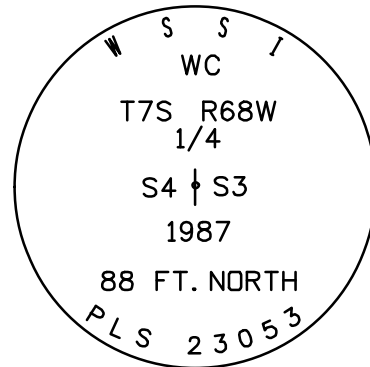
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Prepared By:

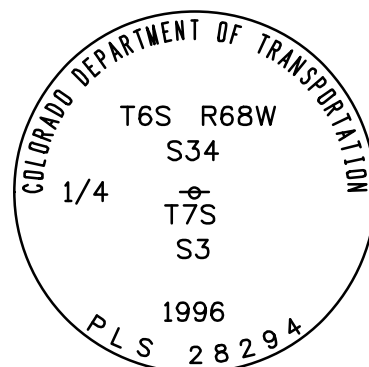


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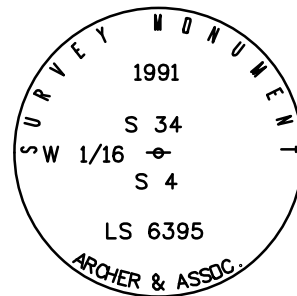
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Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429	2-11-2008	RW 4.01 to RW 4.07	RW 4.05



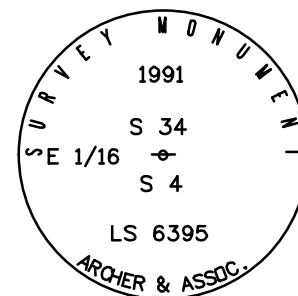
Fd. 3 1/2" Alum Cap Witness
Corner
Pt. No. 150



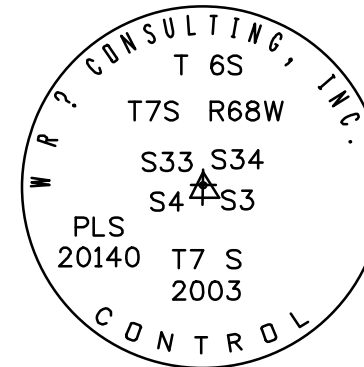
Fd. 3 1/4" Alum Cap
Pt. No. 151



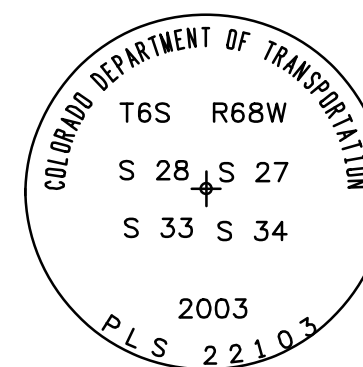
Fd. 2 1/2" Alum. Cap
Pt. No. 152



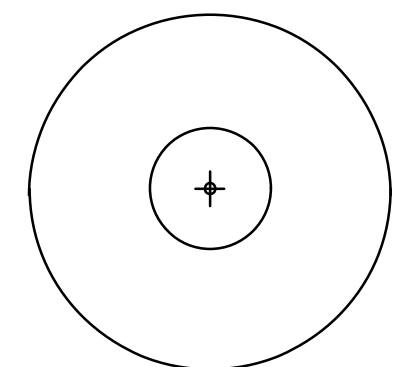
Fd. 2 1/2" Alum. Cap
Pt. No. 153



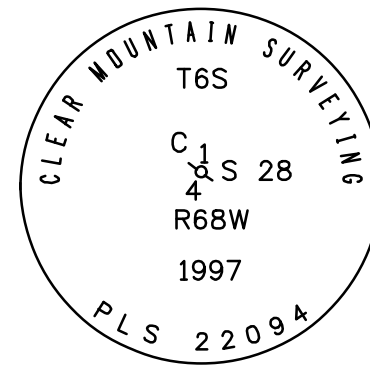
Fd. 3 1/4" Alum Cap
Pt. No. 156



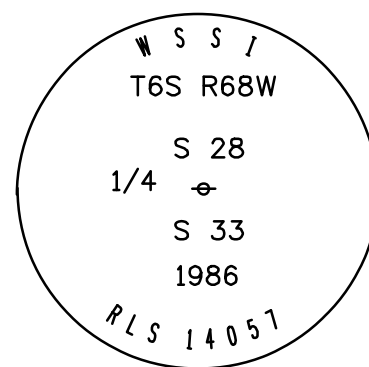
Fd. 3 1/4" Alum Cap
Pt. No. 157



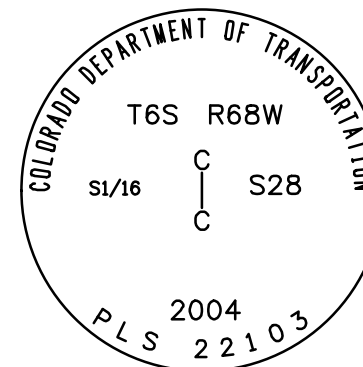
Fd. 2" Alum Cap in Concrete. Pt
No. 163, 177, 3213, 3214, & 3215



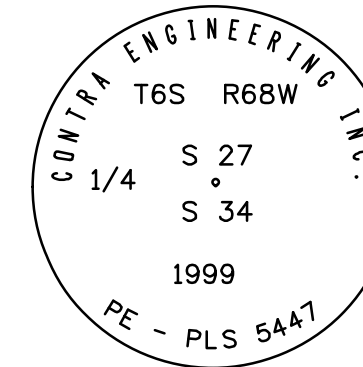
Fd. 3 1/4" Alum Cap Pt. No. 164



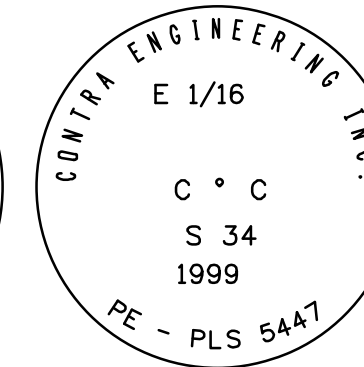
Fd. 3 1/4" Alum Cap Pt. No. 168



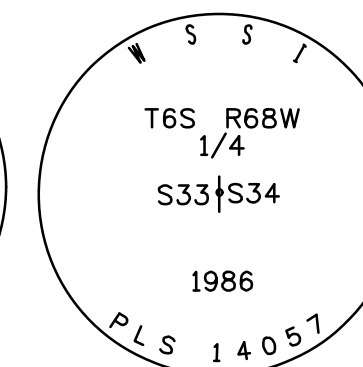
Set 3 1/4" Alum Cap Pt. No. 169



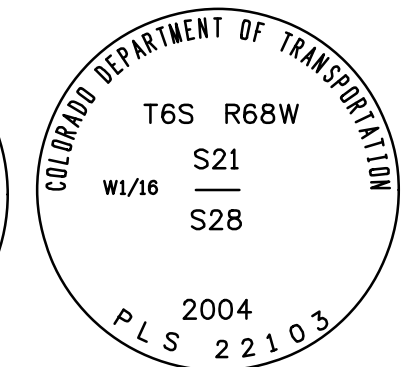
Fd. 3 1/4" Alum Cap Pt. No. 170



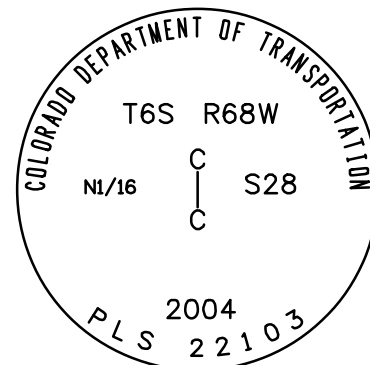
Fd. 3 1/4" Alum Cap Pt. No. 171



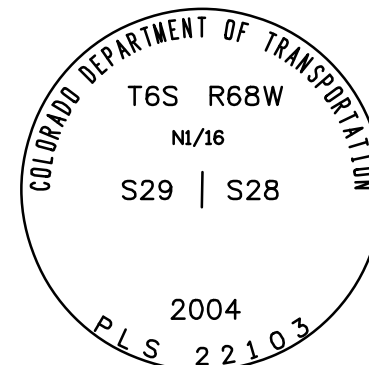
Fd. 3 1/2" Alum Cap Pt. No. 172



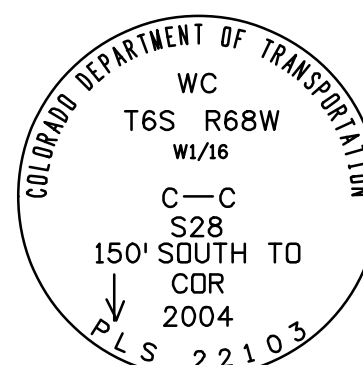
Set 3 1/4" Alum Cap Pt. No. 173



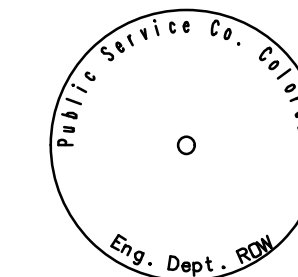
Set 3 1/4" Alum Cap Pt. No. 174



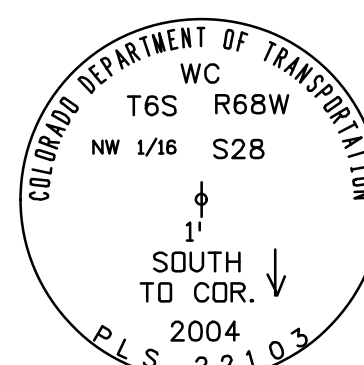
Set 3 1/4" Alum Cap Pt. No. 175



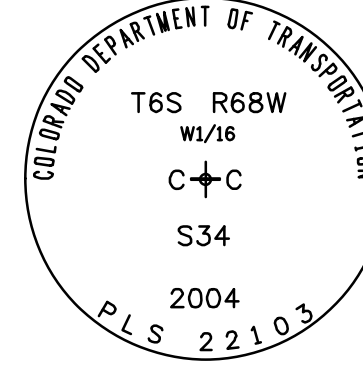
Set 3 1/4" Alum Cap Pt. No. 176



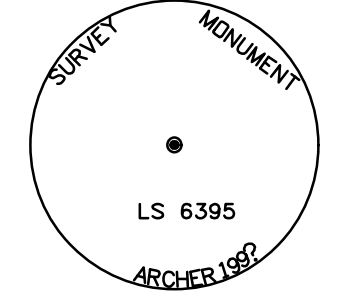
Found 2" Alum Cap in Concrete
Pt. No. 177



Set 3 1/4" Alum Cap Pt. No. 178



Set 3 1/4" Alum Cap Pt. No. 179



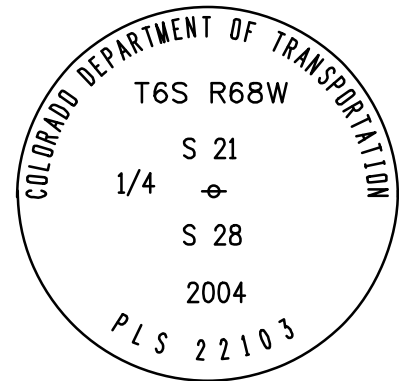
Fd. 2 1/2" Alum Cap Pt. No. 1028



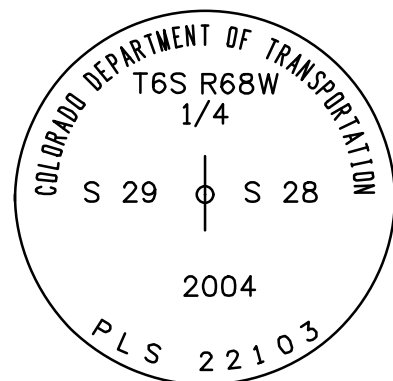
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Date	Description	Initials	Date	Description	Initials	Date	Description	Initials
mm/yy	XXXXXXXX	XXX						



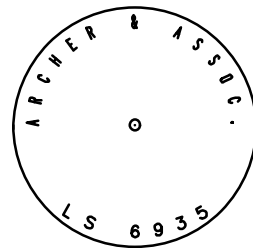
Project Number: NH 0852-086 Phase III		
Project Number: NH 0852-095 (Const.)/ Project Code: 14976		
Project Location: SH 85, Titan Road to Cook Ranch		
Project Code:	Last Mod. Date:	Subset Sheets
13429	2-11-2008	RW 4.01 to RW 4.07
		Sheet No.
		RW 4.06



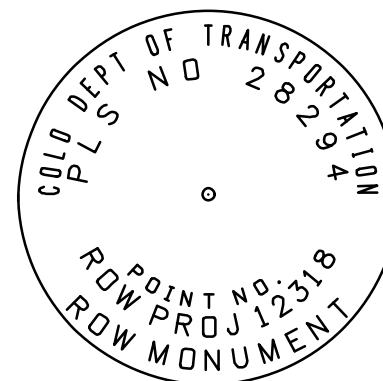
Set 3 1/4" Alum Cap Pt. No. 10030



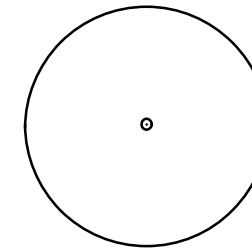
Set 3 1/4" Alum Cap Pt. No. 10031



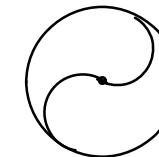
Fd. 1 1/4" Red Plastic Cap Pt Nos. 3065, 3066, 3070, 3075, 3085, 3224, 3225, & 3230



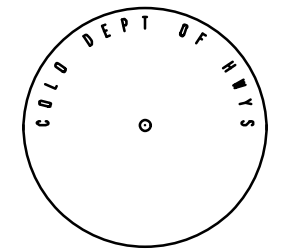
Fd. 3 1/4" Alum Cap Pt. No. 3067, 3219, 3221, 3222, 3231, & 3232



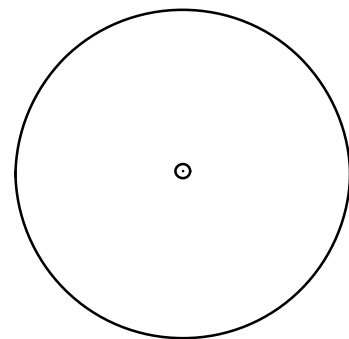
Fd. 1 1/4" Red Plastic Cap (Illegible) Pt No. 3068



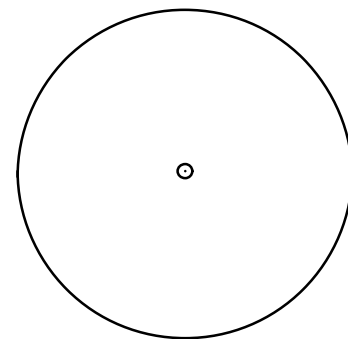
Fd. 3/4" Rebar Pt Nos. 3069 & 3081



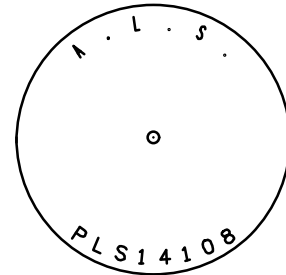
Fd. 1 1/4" Alum. Cap Pt Nos. 3071, 3072, & 3073



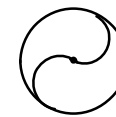
Fd. 2" Alum Cap (Illegible) Pt No. 3077



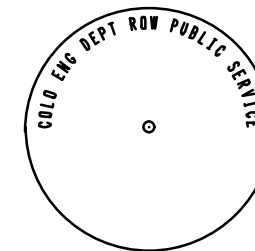
Fd. 2" Alum Cap (Blank) Pt Nos. 3090, & 3207



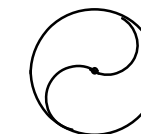
Fd. 1 1/2" Alum Cap Pt No. 3091, 3092, 3208, 3209, & 3210



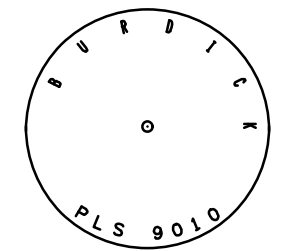
Fd. 1/2" Rebar Pt No. 3100, 3101, & 3102



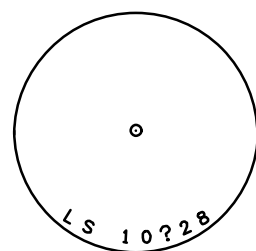
Fd. 1 1/2" Alum Cap in Concrete Pt Nos. 3103, & 3104



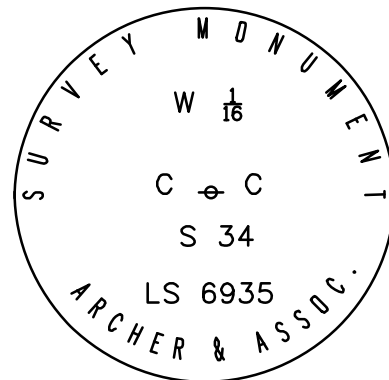
Fd. 5/8" Rebar Pt Nos. 3200, 3201, 3202, 3203, 3204, 3205, 3212, & 3216



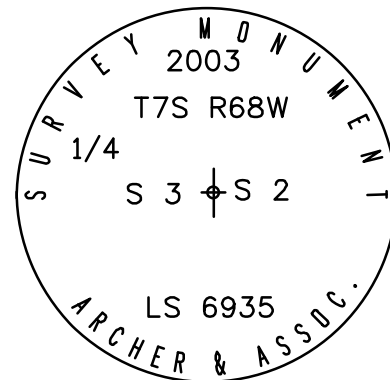
Fd. 1 1/4" Yellow Plastic Cap Pt No. 3206,



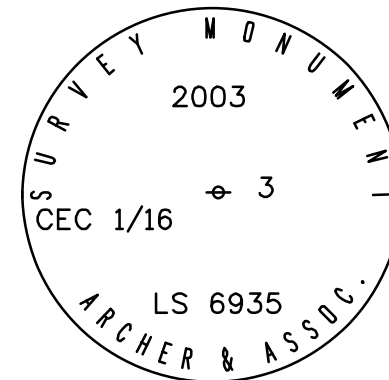
Fd. 1 1/4" Red Plastic Cap Pt No. 3211



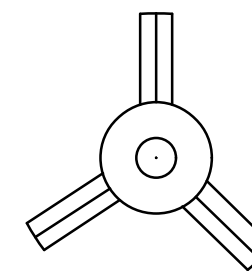
Fd. 2 1/2" Alum Cap Pt. No. 3227



Fd. 2 1/2" Alum Cap Pt. No. 3233



Fd. 2 1/2" Alum Cap Pt. No. 3233



Fd. 3/4" Alum. Finned Rod With no Cap Pt No. 3220



Sheet Revisions

Date mm/yy	Description XXXXXXXX	Initials XXX

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Prepared By:



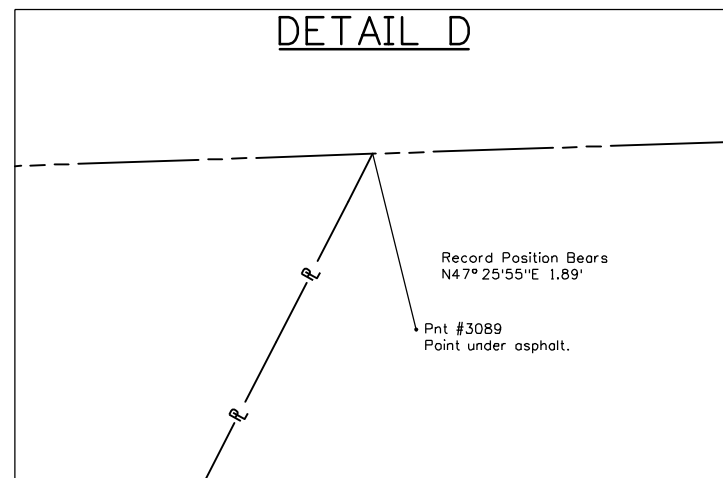
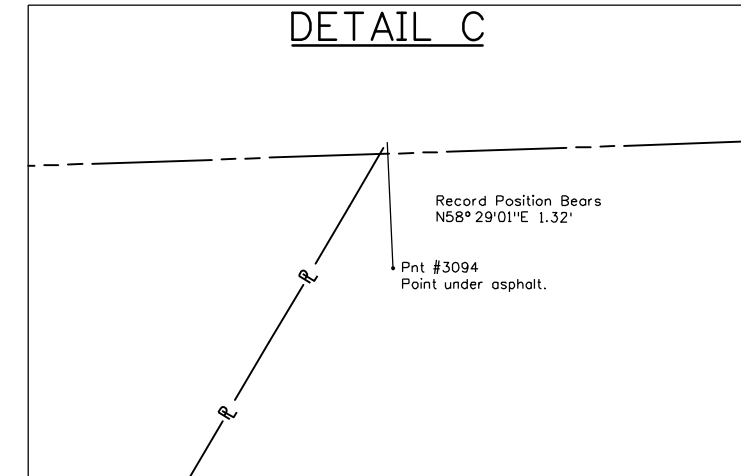
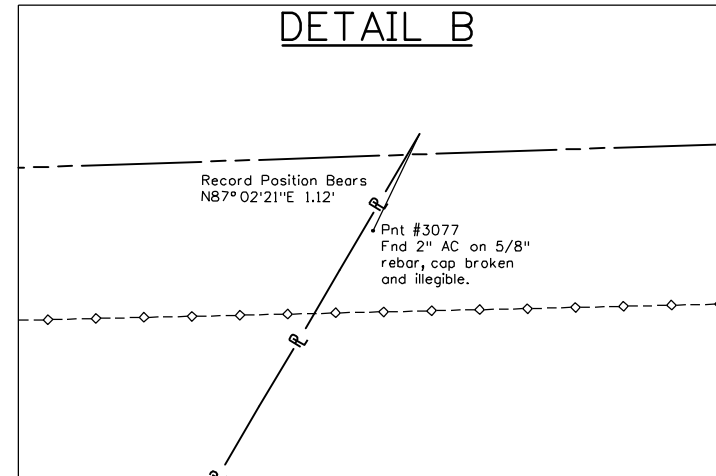
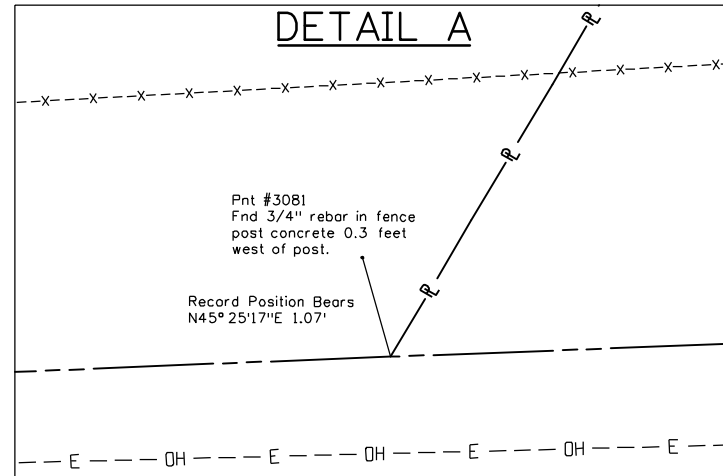
URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

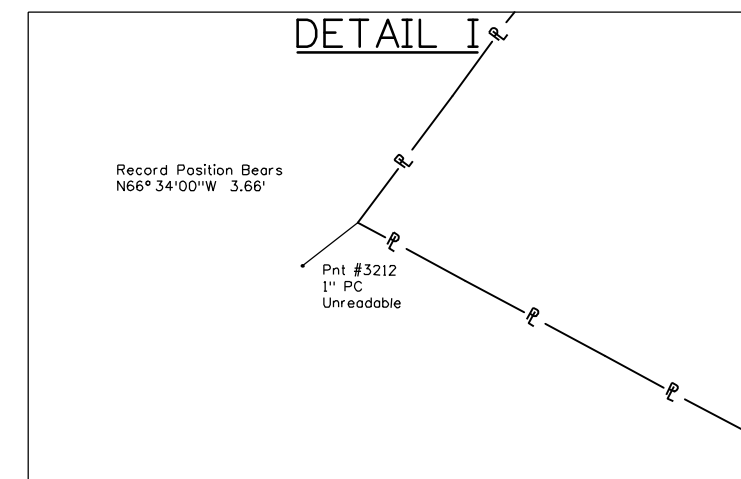
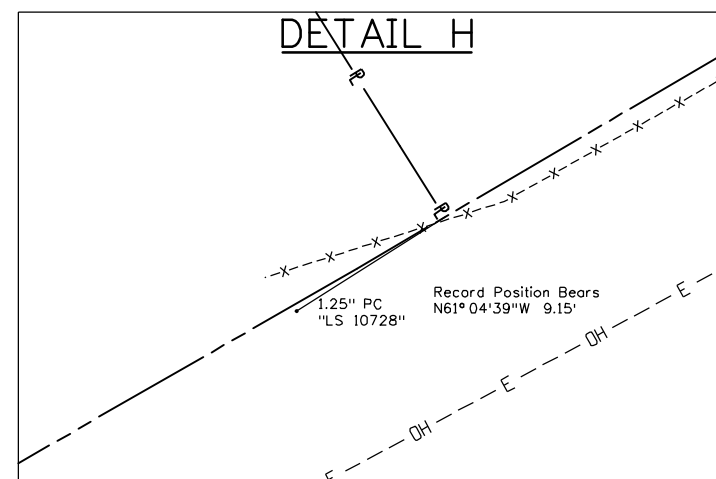
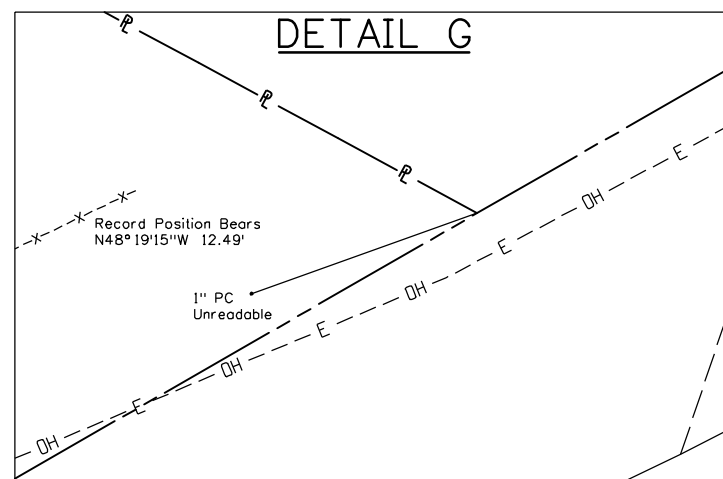
Monuments Sheet

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	2-11-2008	RW 4.01 to RW 4.07	RW 4.07

1"=2'



1"=20'



Colorado Department of Transportation



18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions

Date	Description	Initials
5/14/08	Revised 109, TE-109, 110, TE-110, 111, TE-111, 112	CGG
5/14/08	Revised Access Openings AC-108, AC-109, AC-110, AC-111, AC-112	CGG
5/14/08	Added PE-109, Deleted TE-109A	CGG
2/15/08	Revised TE-106 and TE-107	CGG

Sheet Revisions

Date	Description	Initials
1/20/10	Added 'as set monument information'	CGG
1/17/11	Added Parcel 95R. Revised AC-95	CGG
	Added TE-94, AC-94. Deleted AC-701.	
	Added Sheet (RW) 5.05	

Sheet Revisions

Date	Description	Initials

Prepared By:

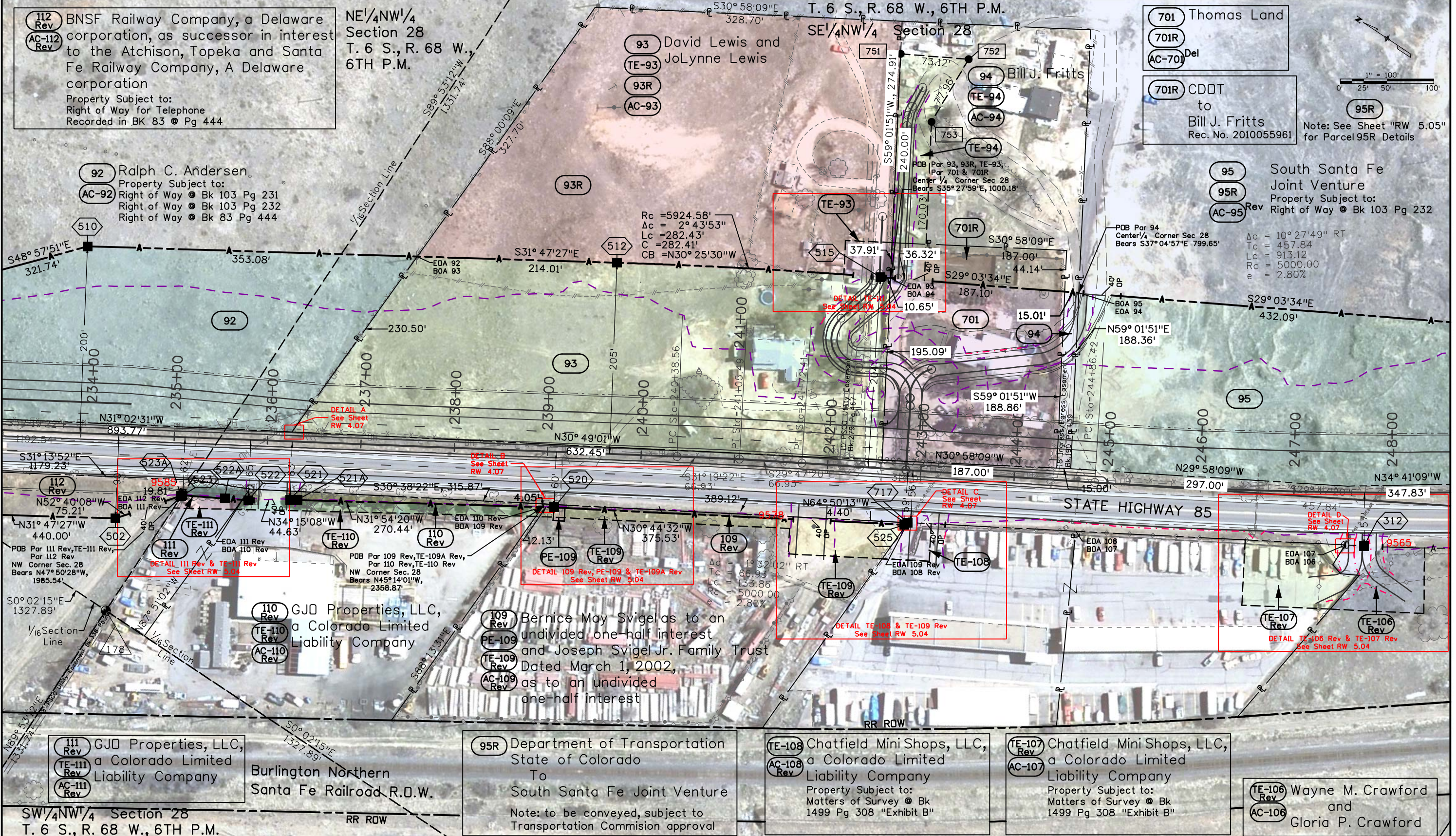


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Right of Way Plans

Plan Sheet

Project Number: NH 0852-086 Phase III		
Project Number: NH 0852-095 (Const.) / Project Code: 14976		
Project Location: SH 85, Titan Road to Cook Ranch		
Project Code: 13429	Last Mod. Date: 1-17-2011	Sheet No.: RW 5.02



8:39:04 AM I:\PROJECTS\22239969_SH85_Titan_Cook\6.0_Deliverables\13429\RDW_Survey Drawings\13429\RDW_502-Plan.dgn

Colorado Department of Transportation



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Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions		
Date	Description	Initials
2/15/08	Revised TE-106	CGG
2/10/09	Deleted Parcels 104,104R,AC-104, 105,105R,AC-105	CGG
1/17/11	Added Parcel 95R. Revised AC-95 Added Sheet (RW) 5.05	CGG

Sheet Revisions		
Date	Description	Initials
5/31/11	Deleted AC-139	CGG

Sheet Revisions		
Date	Description	Initials

Prepared By:

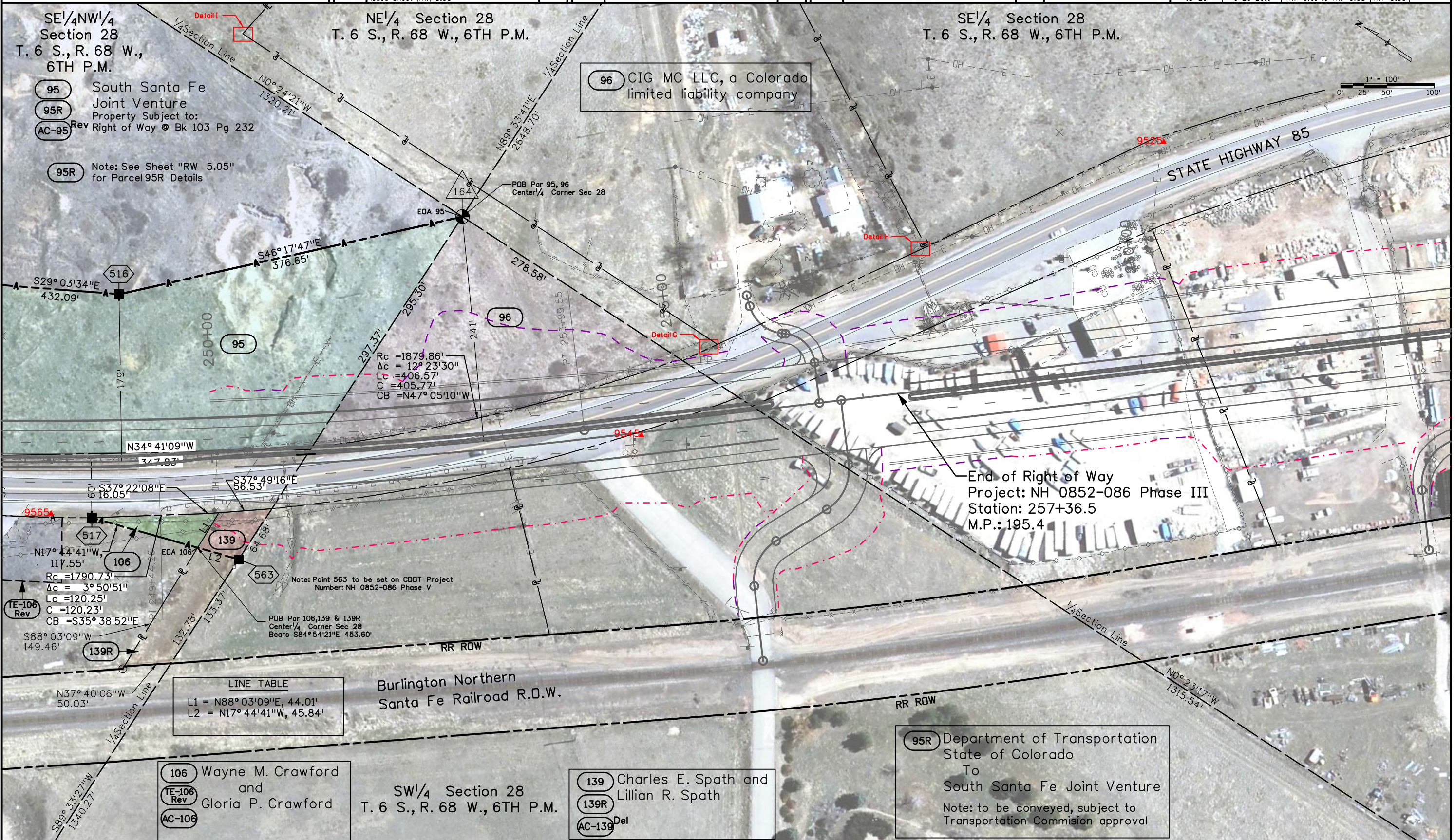


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Right of Way Plans

Plan Sheet

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	6-20-2011	RW 5.01 to RW 5.05	RW 5.03



96 CIG MC LLC, a Colorado limited liability company

End of Right of Way
Project: NH 0852-086 Phase III
Station: 257+36.5
M.P.: 195.4

LINE TABLE

L1 = N88° 03' 09" E, 44.01'
L2 = N17° 44' 41" W, 45.84'

106 Wayne M. Crawford
and
Gloria P. Crawford
TE-106 Rev
AC-106

139 Charles E. Spath and
Lillian R. Spath
139R
AC-139 Del

95R Department of Transportation
State of Colorado
To
South Santa Fe Joint Venture
Note: to be conveyed, subject to
Transportation Commission approval

I:\PROJECTS\222239669_Shr85_Titan_Cook\6.0_Deliverables\13429\ROW_Survey Drawings\13429ROW_503-Plan.dgn



Sheet Revisions

Date	Description	Initials
5/14/08	Revised TE-108, AC-108, 109, TE-109, AC-109, 111, TE-111, AC-111	CGG
5/14/08	Revised Access Openings AC-108, AC-109, AC-112	CGG
5/14/08	Added PE-109, Deleted TE-109A	CGG
2/15/08	Revised TE-106 and TE-107	CGG

Sheet Revisions

Date	Description	Initials
1/20/10	Added "as set monument information"	CGG
1/17/11	Added TE-94, AC-94 Added Sheet (RW) 5.05	CGG

Sheet Revisions

Date	Description	Initials

Prepared By:



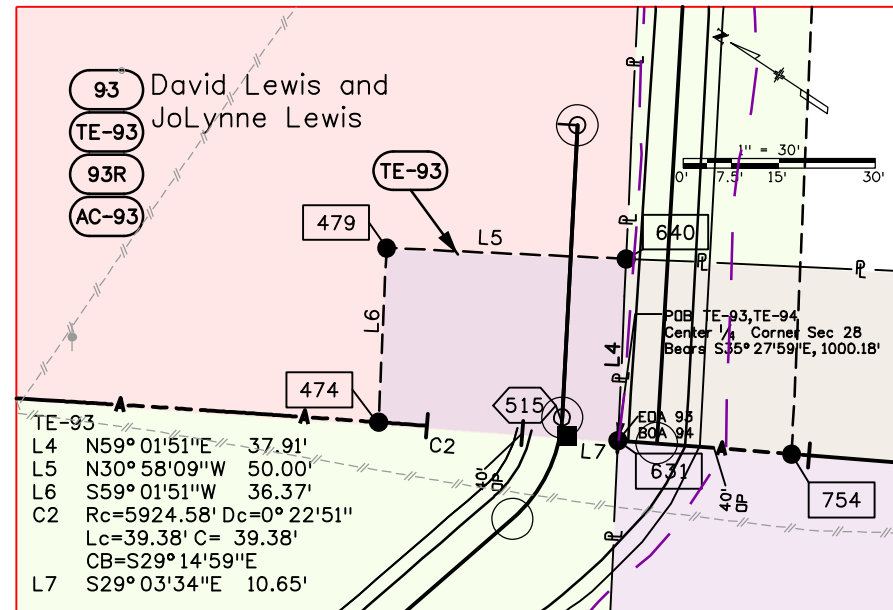
URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

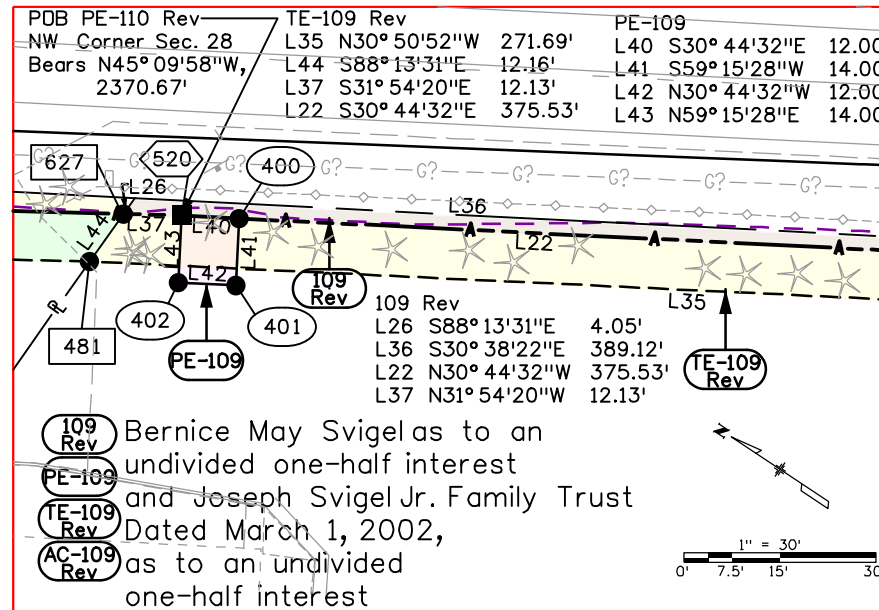
Plan Sheet

Project Number: NH 0852-086 Phase III			
Project Number: NH 0852-095 (Const.) / Project Code: 14976			
Project Location: SH 85, Titan Road to Cook Ranch			
Project Code: 13429	Last Mod. Date: 1-17-2011	Subset Sheets: RW 5.01 to RW 5.05	Sheet No.: RW 5.04

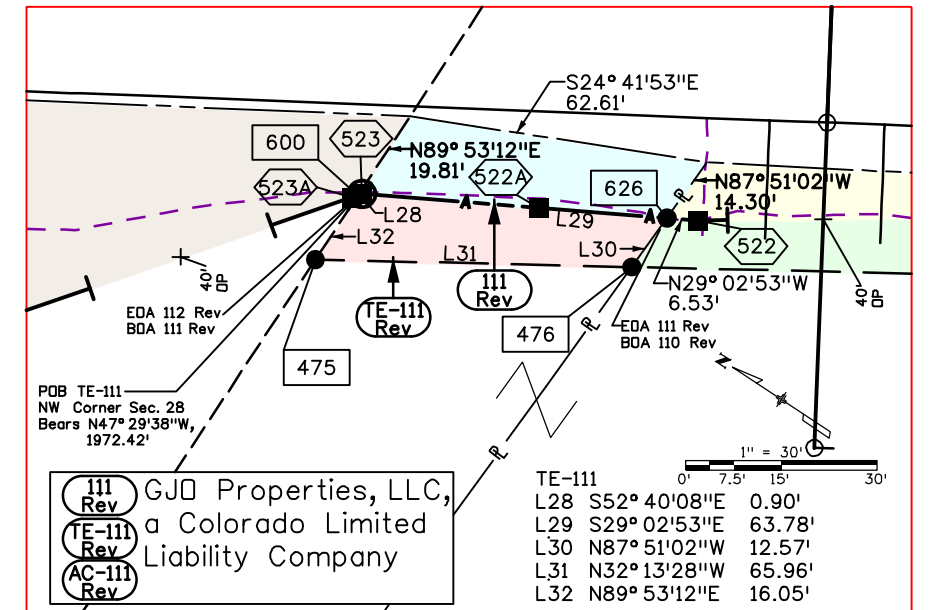
DETAIL TE-93



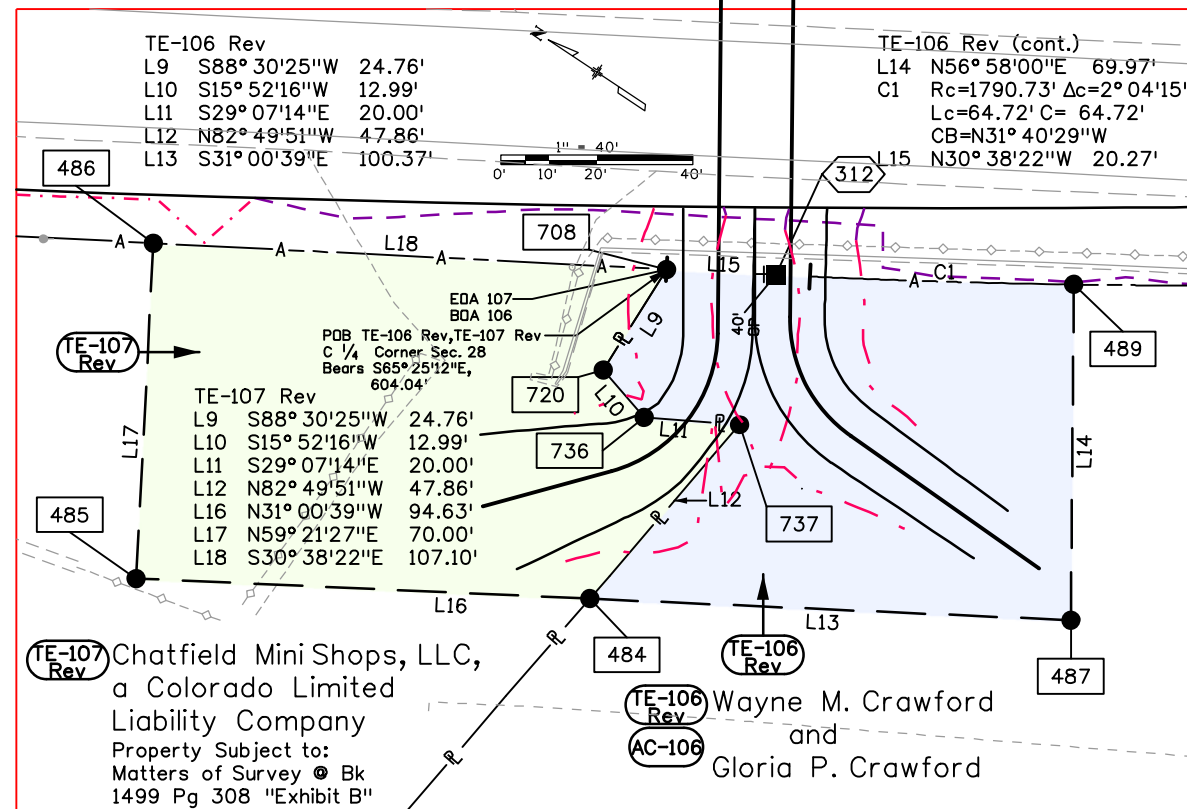
DETAIL 109 Rev, PE-109 & TE-109A Rev



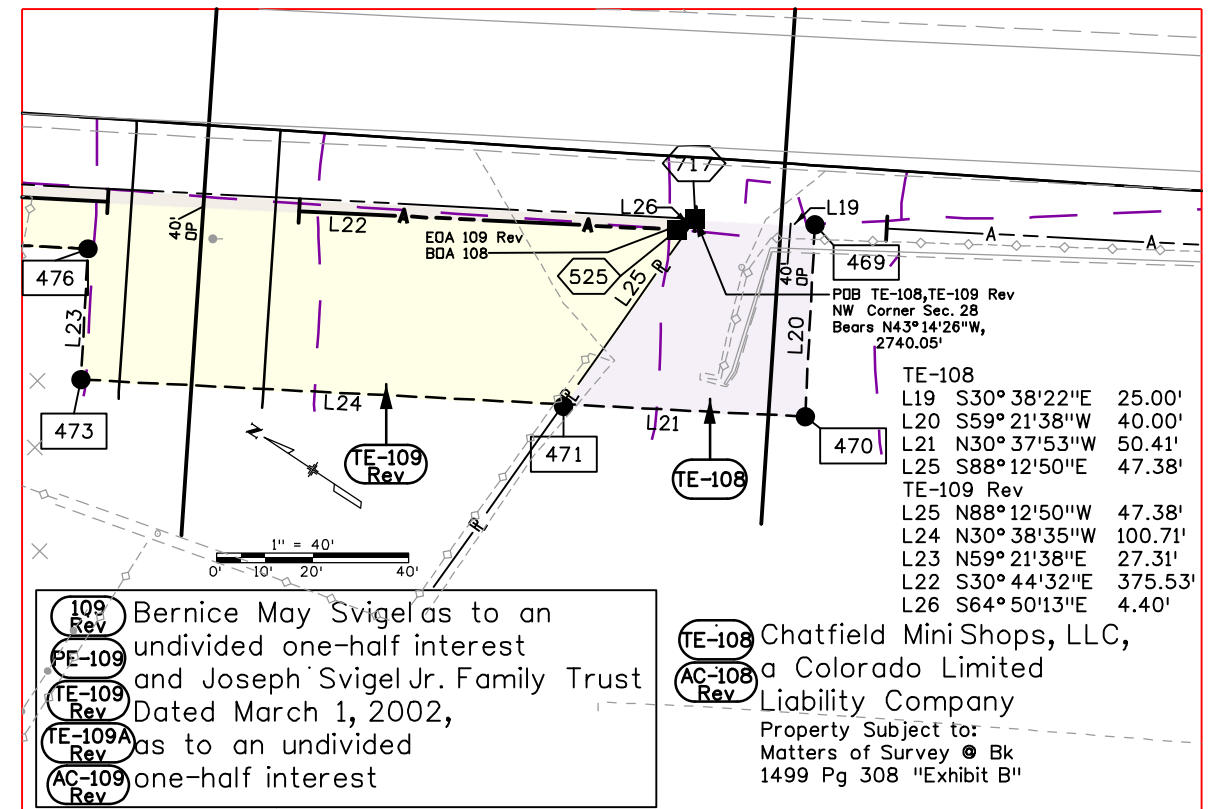
DETAIL 111 Rev & TE-111 Rev



DETAIL TE-106 Rev & TE-107 Rev



DETAIL TE-108 & TE-109 Rev





Sheet Revisions		
Date	Description	Initials
1/20/10	Added "as set monument information"	CGG
1/17/11	Added Parcel 95R, Revised AC-95 Added Sheet (RW) 5.05	CGG

Sheet Revisions		
Date	Description	Initials

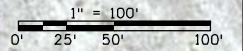
Sheet Revisions		
Date	Description	Initials

Prepared By:



Project Number: NH 0852-086 Phase III		
Project Number: NH 0852-095 (Const.)/ Project Code: 14976		
Project Location: SH 85, Titan Road to Cook Ranch		
Project Code: 13429	Last Mod. Date: 6-20-2011	Sheet No.: RW 5.05

T. 6 S., R. 68 W., 6TH P.M.



NE 1/4 Section 28

NE 1/4 NW 1/4
Section 28

95R Department of Transportation
State of Colorado
To
South Santa Fe Joint Venture
Note: to be conveyed, subject to
Transportation Commission approval

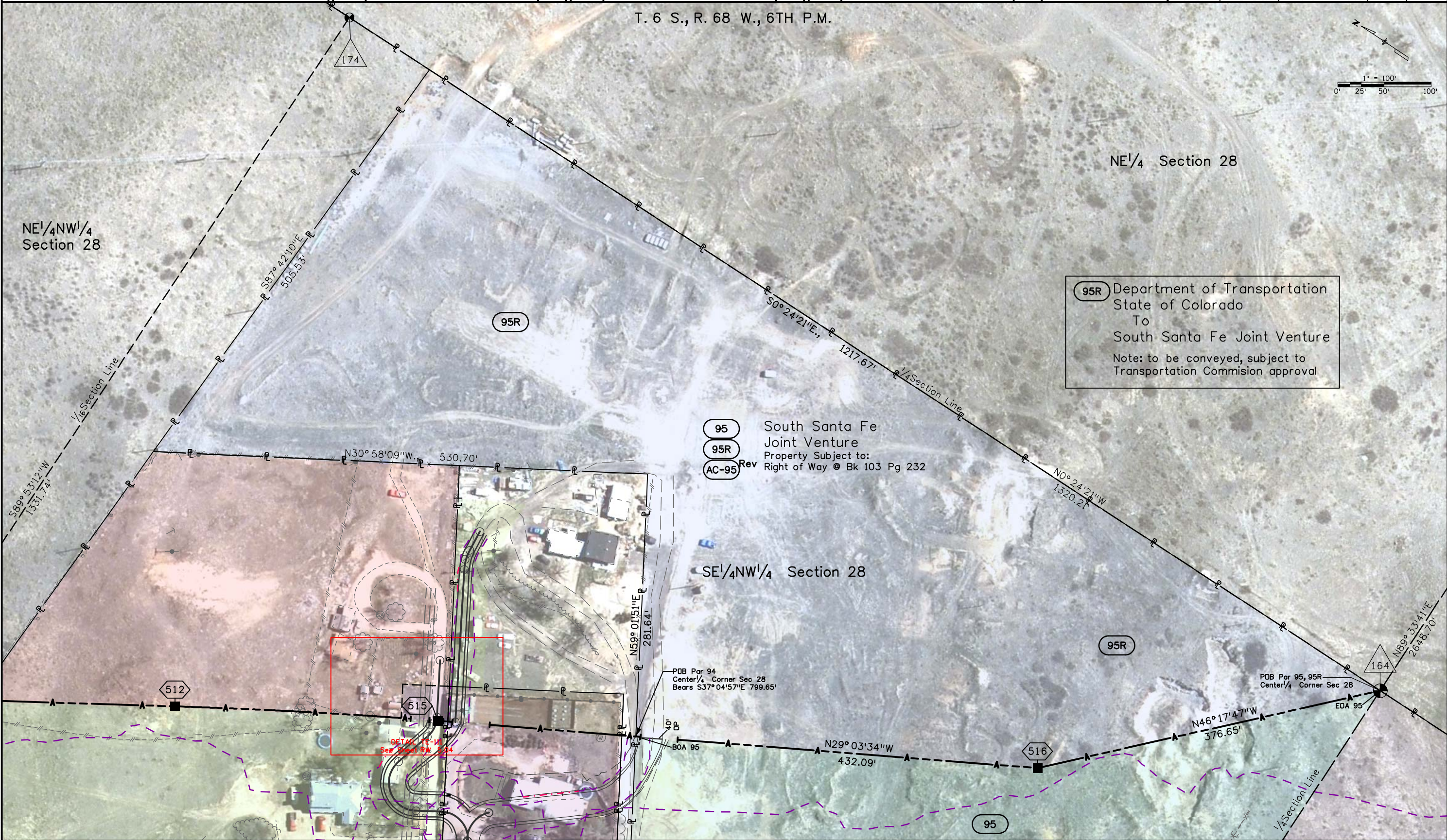
95 South Santa Fe
Joint Venture
95R Property Subject to:
AC-95 Rev Right of Way @ Bk 103 Pg 232

SE 1/4 NW 1/4 Section 28

PDB Par 94
Center 1/4 Corner Sec 28
Bears S37°04'57"E 799.65'

PDB Par 95, 95R
Center 1/4 Corner Sec 28

DOT NH 14-14
Sec 28 RW 5.05





18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions

Date	Description	Initials
5/14/08	Revised AC-108,109,TE-109,AC-109,110,TE-110	CGG
	AC-110,111,TE-111,AC-111,112,AC-112	
5/14/08	Added PE-109, Deleted TE-109A	CGG
2/15/08	Revised TE-106 and TE-107	CGG
2/10/09	Deleted Parcels 104,104R,AC-104	CGG

Sheet Revisions

Date	Description	Initials
2/10/09	Deleted Parcels 105,105R,AC-105	CGG
01/17/11	Added Parcel 95R. Revised AC-95	CGG
	Added TE-94,AC-94. Deleted Access AC-701.	
05/31/11	Deleted AC-139	CGG

Sheet Revisions

Date	Description	Initials

Prepared By:

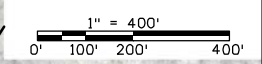
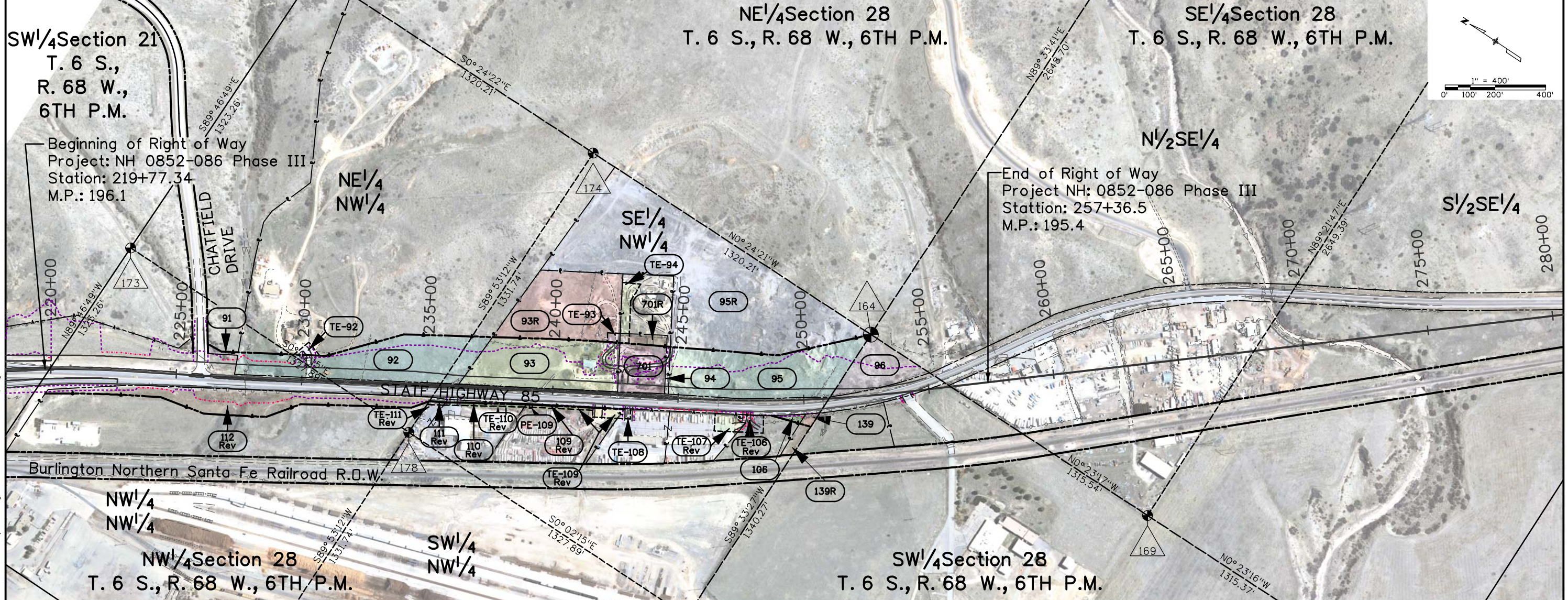


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Right of Way Plans

Ownership Sheet

Project Number: NH 0852-086 Phase III		
Project Number: NH 0852-095 (Const.)/ Project Code: 14976		
Project Location: SH 85, Titan Road to Cook Ranch		
Project Code: 13429	Last Mod. Date: 6-20-2011	Subset Sheets: 1 of 1
		Sheet No.: RW 6.01



- 91 Chatfield East Property Owners Association, Inc. a Non-Profit Corporation
Commitment #NF00401
6576 West Lakeside Court
Littleton, CO 80125
Property Subject to:
Right of Way • Bk 103 Pg 231
Right of Way • Bk 83 Pg 444
- AC-91
- 92 Ralph C. Andersen
Commitment #NF00402
P.D. Box 86
Littleton, CO 80160
Property Subject to:
Right of Way • Bk 103 Pg 231
Right of Way • Bk 103 Pg 232
Right of Way • Bk 83 Pg 444
- TE-92
- AC-92
- 93 David Lewis and JoLynne Lewis
Commitment #NF00403
2340 South Broadway
Denver, CO 80210
- TE-93
- AC-93

- 94 Bill J. Fritts
Commitment #NF00404
807 Hercules Place
Colorado Springs, CO 80906
- TE-94
- AC-94
- 95 South Santa Fe Joint Venture
Commitment #NF00405
9888 Whistling Elk Drive
Littleton, CO 80127
Property Subject to:
Right of Way • Bk 103 Pg 232
- 95R
- AC-95
- 96 CIG MC LLC, a Colorado limited liability company
Commitment #NF00406
1600 Wynkoop Street, Suit 200
Denver, CO 80202

- 106 Wayne M. Crawford and Gloria P. Crawford
Commitment #NF00409
7345 East Hinsdale Place
Englewood, CO 80112
- TE-106
- AC-106
- TE-107 Chatfield Mini Shops, LLC, a Colorado Limited Liability Company
Commitment # NF00410
7299 Rainbow Creek Road
Sedalia, CO 80135
Property Subject to:
Matters of Survey • Bk 1499 Pg 308 "Exhibit B"
- AC-107
- TE-108 Chatfield Mini Shops, LLC, a Colorado Limited Liability Company
Commitment # NF00410
7299 Rainbow Creek Road
Sedalia, CO 80135
Property Subject to:
Matters of Survey • Bk 1499 Pg 308 "Exhibit B"
- AC-108

- 109 Bernice May Svigel, as to an undivided one-half interest and Joseph Svigel Jr.
Family Trust dated March 1, 2002, as to an undivided one-half interest
Commitment #NF00412
5390 South Windermere Street
Littleton, CO 80120
- 109 Rev
- PE-109
- TE-109
- AC-109
- 110 GJD Properties, LLC, a Colorado Limited Liability Company
5231 S. Emporia Ct.
Greenwood Village, CO 80111
- 110 Rev
- TE-110
- AC-110
- 111 GJD Properties, LLC, a Colorado Limited Liability Company
5231 S. Emporia Ct.
Greenwood Village, CO 80111
- 111 Rev
- TE-111
- AC-111

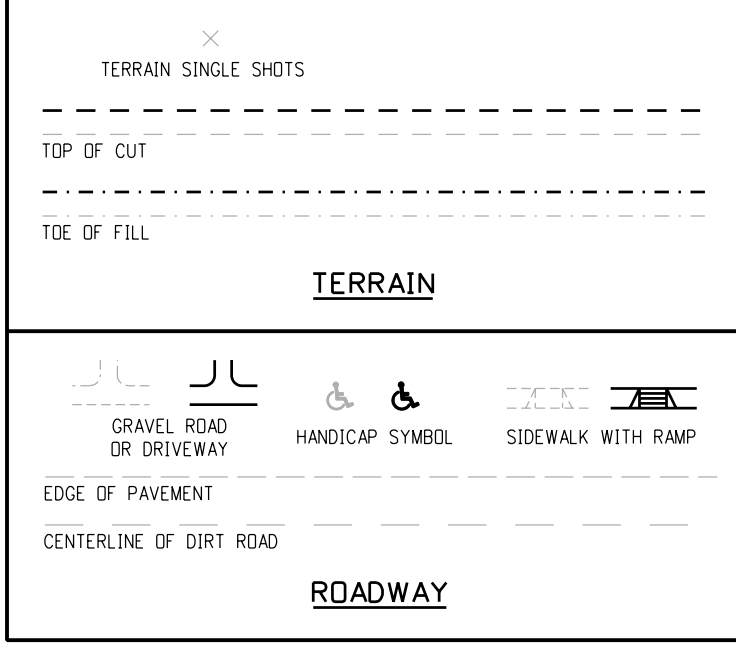
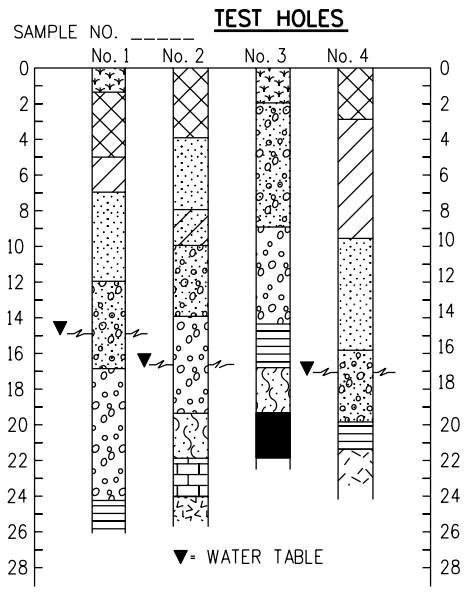
- 112 BNSF Railway Company, a Delaware corporation, as successor in interest to the Atchison, Topeka and Santa Fe Railway Company, A Delaware corporation
Property Subject to:
Right of Way for Telephone
Recorded in BK 83 • Pg 444
- 112 Rev
- AC-112
- 139 Charles E. Spath and Lillian R. Spath
Commitment #NF00415
3 Meadowbrook Circle
Littleton, CO 80120
- 139R
- AC-139
- 701 Thomas Land
9636 N. Highway 85
Littleton, CO 80120
- 701R
- AC-701

- 701R Department of Transportation
State of Colorado
to
Bill J. Fritts
Rec. No. 2010055961

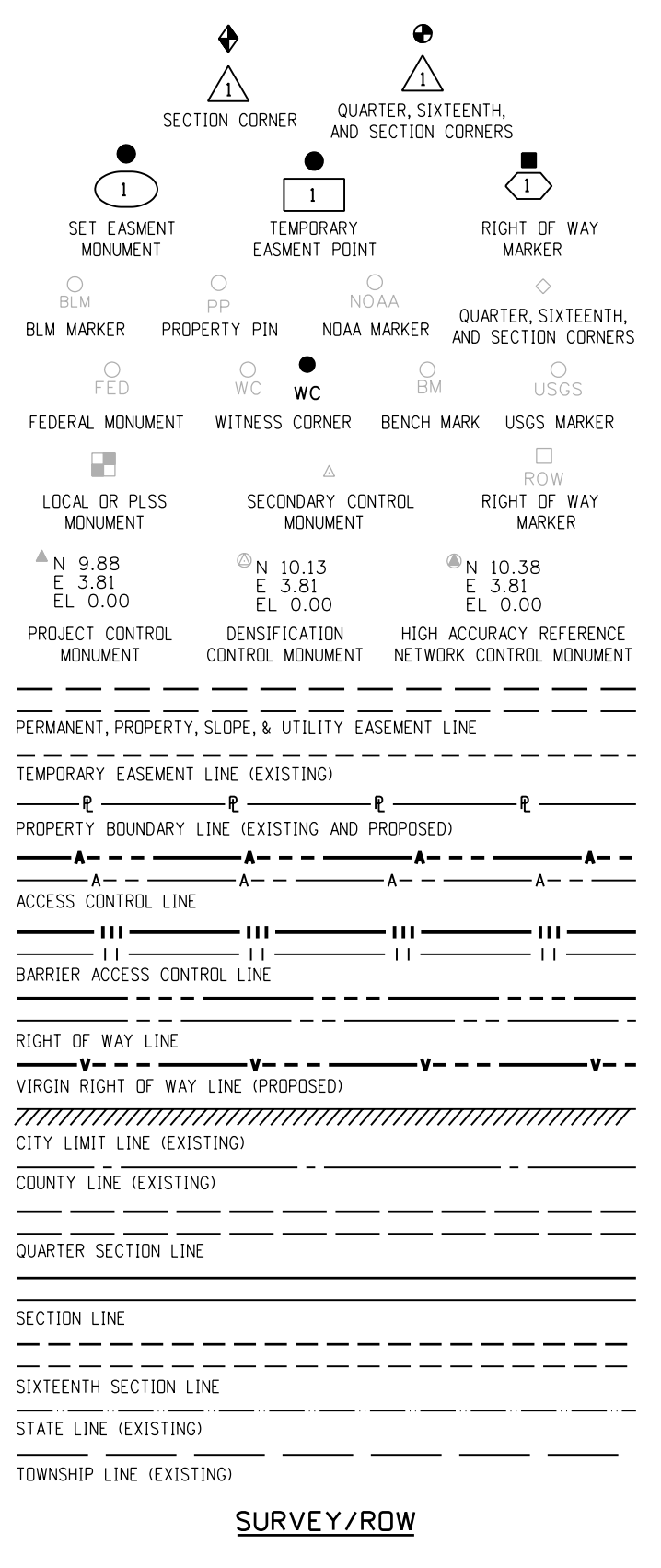
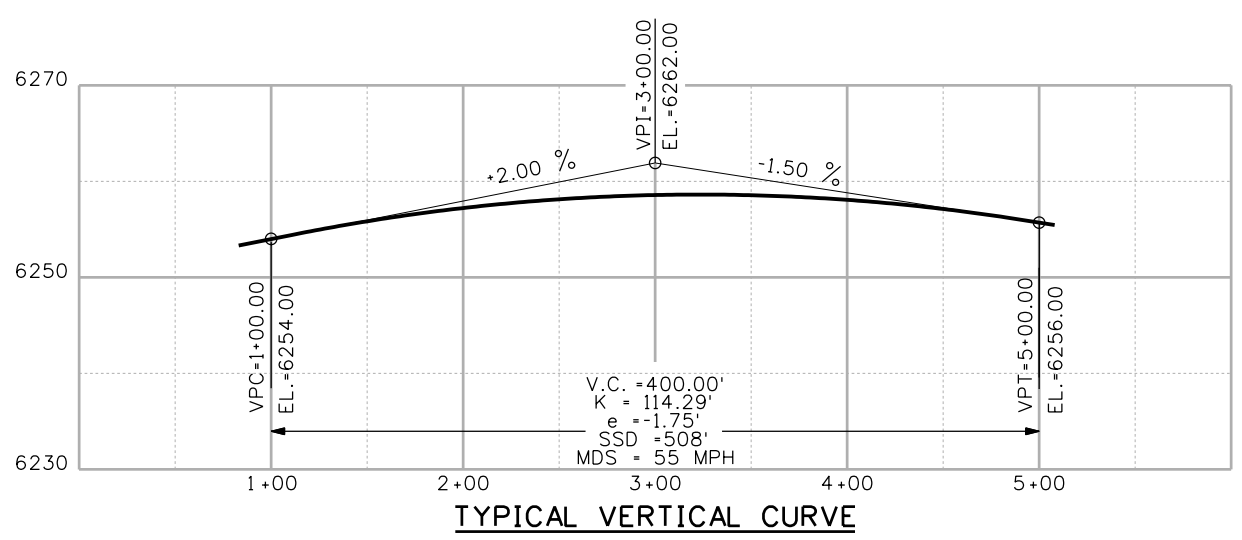
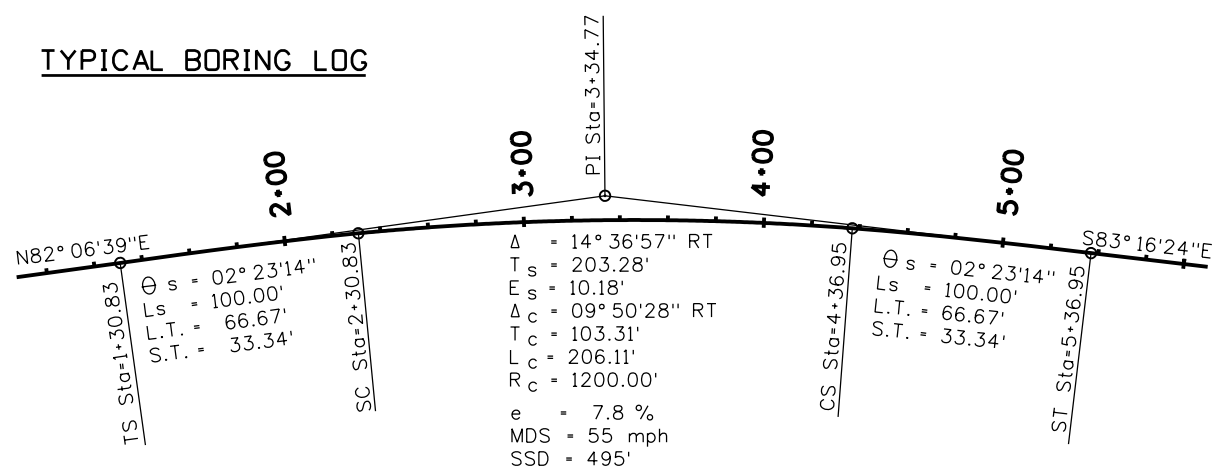
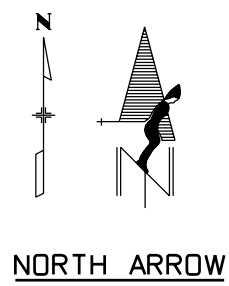
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LEGEND

	TOPSOIL
	OVERBURDEN
	CLAY
	SILT
	SAND
	GRAVEL
	SHALE
	LIMESTONE
	SANDSTONE
	SOLID ROCK (IGNEOUS)
	SOLID ROCK (METAMORPHIC)
	COAL
COMPOSITE MATERIALS ARE REPRESENTED BY COMBINATIONS OF THE ABOVE SYMBOLS, SUCH AS:	
	SANDY CLAY

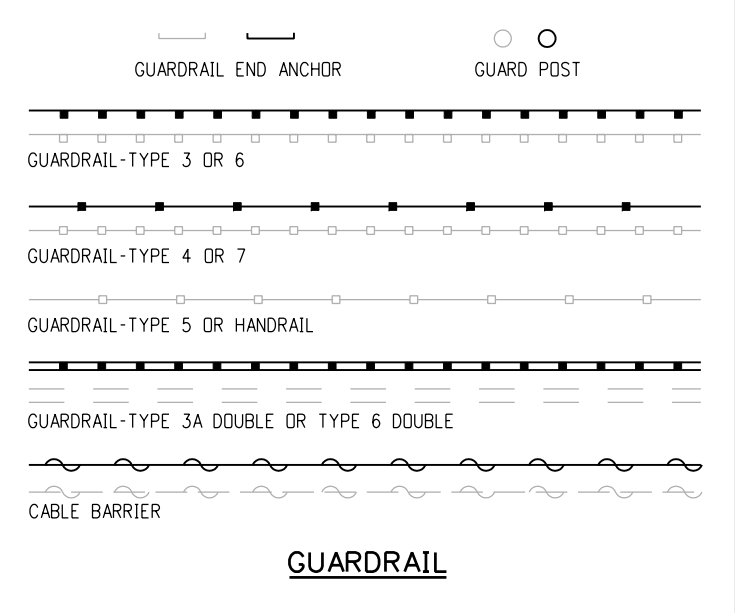
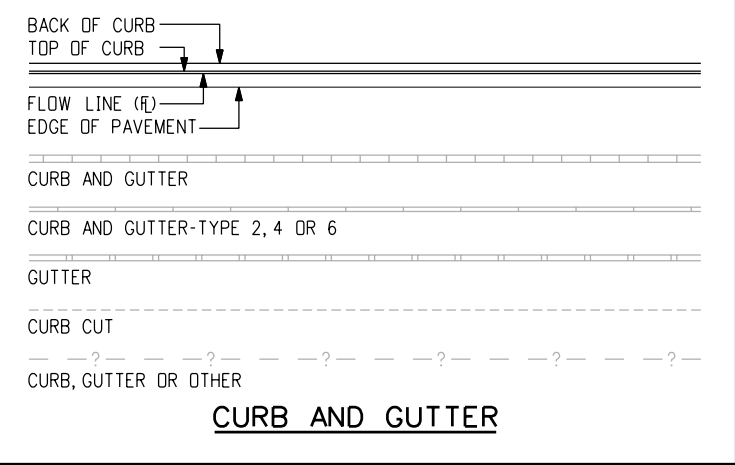


TYPICAL BORING LOG



GENERAL NOTES

- EXISTING FEATURES SHOWN AS SCREENED WEIGHT (GRAY SCALE), EXCEPT AS NOTED WITH THE WORD (EXISTING). PROPOSED OR NEW FEATURES SHOWN AS FULL WEIGHT WITHOUT SCREENING, EXCEPT AS NOTED WITH THE WORD (PROPOSED).
- THESE SYMBOLS ARE INTENDED TO EXPLAIN THE VARIOUS TOPOGRAPHIC FEATURES INVOLVED ON THE DESIGN PLAN SHEETS WHICH ARE PREPARED AT VARIOUS SCALES. NOTES ARE ADDED WHERE NECESSARY TO CLARIFY THE SYMBOL. A LEGEND IS PROVIDED IN THE PLANS FOR SYMBOLS NOT SHOWN ON THE STANDARD SYMBOLS SHEETS.
- GUARDRAIL, CURB AND GUTTER, ETC., ARE REPRESENTED BY A SYMBOL WITH TYPE GIVEN BY NOTE.



Computer File Information

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CAD Ver.: MicroStation V8	Scale: Not to Scale Units: English

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(R-X)	
(R-X)	
(R-X)	

Colorado Department of Transportation

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Project Development Branch SRJ/LTA

STANDARD SYMBOLS

Issued By: Project Development Branch on July 04, 2006

STANDARD PLAN NO.

M-100-1

Sheet No. 1 of 3

ROCK, MASONRY OR MECHANICALLY STABILIZED WALL (FACE)

BRIDGE CURB

BRIDGE RAIL

BRIDGE RAIL-TYPE 3A

FLOW LINE CBC

STRUCTURES MISCELLANEOUS

STRUCTURE

COMBINATION WIRE FENCE WITH GATE

CHAIN LINK FENCE WITH GATE

BARBED WIRE FENCE WITH GATE

SOUND OR BARRIER FENCE WITH GATE

DEER FENCE WITH GATE WITH GATE

WOOD FENCE WITH GATE

SNOW FENCE WITH GATE

SILT FENCE

DEBRIS FENCE

FENCE

HAZARD WASTE MONITORING WELL

ENVIRONMENTAL CONCERN SITE

ROCK CHECK DAM

CONCRETE WASHOUT STRUCTURE

DROP INLET EROSION PROTECTION

TEMPORARY BERM

SOIL RETENTION BLANKET

PIPE INLET EROSION PROTECTION

RIGID INLET PROTECTION

STORM DRAIN INLET PROTECTION

EROSION CHECK

EROSION LOG DITCH CHECK

SILT DIKE

SEDIMENT TRAP/DEWATERING STRUCTURE

EXISTING WETLAND PATTERN

TEMPORARY SLOPE DRAIN

STABILIZED CONSTRUCTION ENTRANCE

PLASTIC FENCE

SILT FENCE

DEBRIS FENCE

ENVIRONMENTAL CONCERN

HAZARDOUS WASTE SITE

NOXIOUS WEED

ENVIRONMENTAL

METAL PIPE WITH END SECTION

CONCRETE PIPE MISCELLANEOUS

HEADWALL

PIPES

CHECK DAM UNDER 4 FT

HEADGATE 1

DIVERSION BOX SYMBOL

SPRING SYMBOL

FLOW GAUGE

MISCELLANEOUS WATERWAYS

DITCH WITH FLOW

EDGE OF WATER, CANALS, PONDS, STREAM OR RIVER

DITCHES AND WATERWAY

MISCELLANEOUS BUILDING STRUCTURE (PRIMARY)

MISCELLANEOUS STRUCTURE (SECONDARY)

FOUNDATION OR PAD (CONCRETE OR BLOCK)

BUILDING STRUCTURES

RR TELEGRAPH POLE

RR SWITCH

RR GUY POLE

RR SIGNALS WITH OR WITHOUT GATE

RR CROSS BUCK SIGN

RR SIGNAL CONTROLLER CABINET

RR MISCELLANEOUS SYMBOL

RR TRACK CENTERLINE

RAILROAD

DECIDUOUS TREE

DECIDUOUS SHRUB

TEETER TOTTER SYMBOL

SWING SET SYMBOL

CONIFEROUS TREE

CONIFEROUS SHRUB

MISCELLANEOUS TREES

BENCH

SPRINKLER HEAD

TREES GROVE

HEDGE OR SHRUB GROVE

EDGE OF WETLANDS

LANDSCAPING

SANITARY SEWER MANHOLE

SIZE, MATERIAL, OWNER

SANITARY SEWER PIPE

SANITARY SEWER MISCELLANEOUS SYMBOL

SANITARY SEWER PIPE MISCELLANEOUS

SANITARY SEWER

INLET TYPE 13

INLET TYPE C

INLET TYPE D

INLET VANE GRATE

INLET TYPE R XX FT LENGTH

STORM SEWER MANHOLE

STORM SEWER MISCELLANEOUS

STORM SEWER PIPE

STORM SEWER PIPE MISCELLANEOUS

STORM SEWER

BOULDER UNDER 6FT

GEOLOGY MISC SYMBOL

MINESHIFT SYMBOL

ROCK OUTCROP

BOULDER FIELD OR ROCK OVERHANG

GEOLOGY

WATER SPIGOT

WATER VALVE

WATER MANHOLE

FIRE HYDRANT

WATER METER

WATER WELL SYMBOL

WATER LINE

WATER MISCELLANEOUS LINE

WATER

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Project Development Branch **SRJ/LTA**

STANDARD SYMBOLS

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STANDARD PLAN NO.

M-100-1

Sheet No. 2 of 3

GAS

PROPANE TANK, GAS JUNCTION BOX, GAS VAULT, GAS LINE MARKER OR AIR VENT, GAS METER LOW PRESSURE, GAS METER HIGH PRESSURE, GAS MISCELLANEOUS, GAS LIGHT, GAS VALVE HIGH OR LOW PRESSURE, GAS LINE LOW PRESSURE, GAS LINE HIGH PRESSURE, PROPANE GAS LINE, GAS LINES MISCELLANEOUS

LIGHTING

LIGHT STANDARD, HIGH MAST LIGHT STANDARD, SPOT OR FLOOD LIGHT

ELECTRICAL

ELECTRICAL PEDESTAL OR PULL BOX, TRANSMISSION TOWER OR WIND POWERED GENERATOR, RELOCATED LIGHT STANDARD, DECORATIVE LIGHT STANDARD, CATENARY POLE FOUNDATION, ELECTRICAL MANHOLE, POWER POLE, TRANSFORMER ON POLE, ELECTRICAL OUTLET, ELECTRICAL MISCELLANEOUS, GUY WIRE, ELECTRICAL VAULT OR TRANSFORMER, GUY POST, FIRE ALARM BOX, ELECTRICAL UNDERGROUND LINE, ELECTRICAL OVERHEAD LINE, ELECTRICAL MISCELLANEOUS LINE

TELEPHONE

TELEPHONE GUY POLE, FIBER OPTIC CABLE MARKER, TELEPHONE MANHOLE, COMBINATION POLE-POWER, TELEPHONE MISCELLANEOUS, COMBINATION GUY POLE-POWER, TELEPHONE UNDERGROUND CONDUIT OR CABLE, FIBER OPTICS UNDERGROUND CABLE, TELEPHONE OVERHEAD LINE, TELEPHONE MISCELLANEOUS LINE

TRAFFIC CONTROL

TRAVEL DIRECTION, BARRIER LIGHT, FLAGGER, DELINEATOR-TYPE I, SEQUENCING ARROW PANEL, FLASHING BEACON, DELINEATOR-TYPE II, DELINEATOR-TYPE III, BUTTERFLY SIGN, HALF BUTTERFLY SIGN, IMPACT ATTENUATOR, SIGN ASSEMBLY, SINGLE POST SIGN, DOUBLE POST SIGN, SIGN-WITH FLASHING BEACON, ROAD CLOSURE GATE BEACON SYMBOL, ROAD CLOSURE GATE SYMBOL, DEER REFLECTORS, TRAFFIC CONTROL MISCELLANEOUS DEVICE, TRAFFIC CONTROL DEVICE

OIL

OIL METER HIGH AND LOW PRESSURE, OIL VALVE HIGH AND LOW PRESSURE, OIL MISCELLANEOUS, OIL LINE LOW OR HIGH PRESSURE, OIL MISCELLANEOUS LINE

INTELLIGENT TRANSPORTATION SYSTEM

FIBER MARKER DOME, FIBER MARKER SLATE, RWIS - REMOTE WEATHER SENSOR, VMS-BUTTERFLY, VMS-GROUND, VMS-CANTILEVER, VMS-SIGN BRIDGE, ITS CONDUIT

TRAFFIC SIGNAL

DOUBLE MAST ARM POLE, SIGNAL SPAN WIRE POLE, LUMINAIRE, SIGNAL FACE, SIGNAL POLE WITH MAST ARM, SIGNAL FACE WITH BACKPLATE, SIGNAL CONTROLLER AND CABINET (4 FT), TELEMETRY ANTENNA, PULL BOX, MICRODETECTOR, VIDEO DETECTION CAMERA, FIRE PREEMPTION UNIT AND TIMER, PEDESTRIAN SIGNAL FACE, PEDESTRIAN PUSH BUTTON, PEDESTAL POLE, PULL BOX SPECIAL, TRAFFIC CONDUIT

MISCELLANEOUS TOPOGRAPHY

GRAVE HEADSTONE SYMBOL, MAIL DROP BOX, FLAG POLE, TRASH BARREL POST, GRAVE SYMBOL, RADIO STATION ANTENNA, MISCELLANEOUS TOPOGRAPHY

TELEVISION

CABLE TV POLE, CABLE TV RISER, COMBINATION POLE-POWER, TELEPHONE, TV ANTENNA, TV MISCELLANEOUS, TV MANHOLE, TV UNDERGROUND CABLE, TV OVERHEAD CABLE, TV MISCELLANEOUS CABLE

TRAFFIC STRIPING

CENTER YELLOW SOLID DOUBLE, CENTER YELLOW SOLID BROKEN (NO PASS), 4 INCH WIDE, 8 INCH WIDE, LANE LINE BROKEN, LANE DROP, CHANNELIZING OR EDGE LINE, 4 INCH WIDE, 8 INCH WIDE, DOTTED BROKEN, STOP LINE

CAMPING

CAMPSITE MARKER, TRAILER ELECTRIC HOOKUP, TRAILER DUMP STATION, CAMPFIRE RING, TRAILER SEWER INLET, TRAILER WATER HOOKUP, CAMPSITE GRILL, CAMPSITE TABLE

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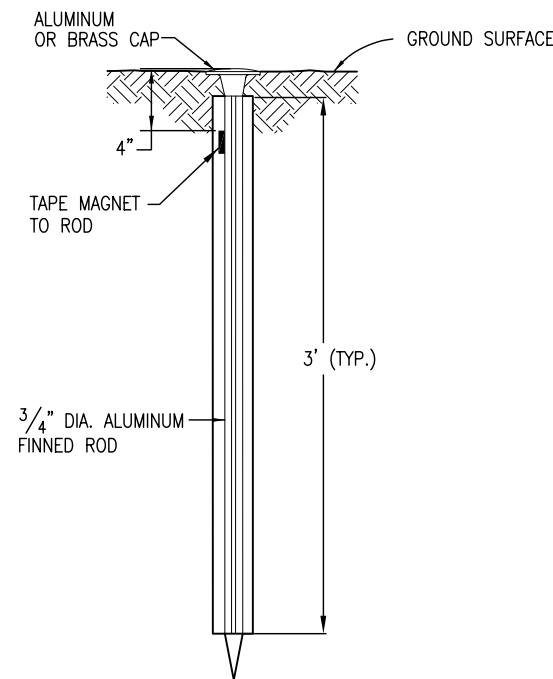
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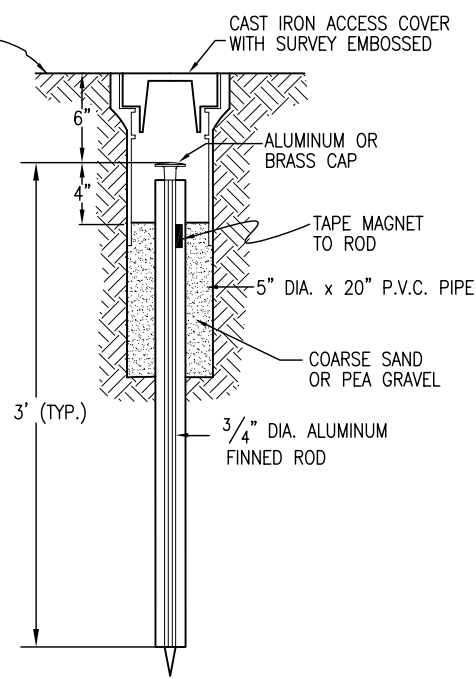
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 Denver, Colorado 80222
 Phone: (303) 757-9083
 Fax: (303) 757-9820
 Project Development Branch SRJ/LTA

STANDARD SYMBOLS
 Issued By: Project Development Branch on July 04, 2006

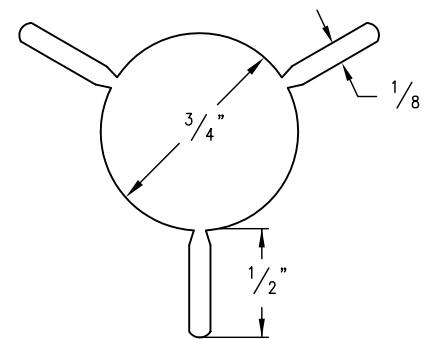
STANDARD PLAN NO.
 M-100-1
 Sheet No. 3 of 3



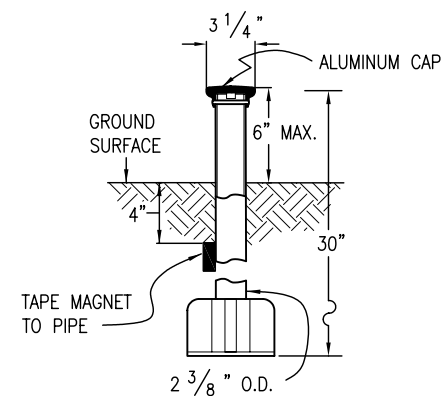
TYPE 1 MONUMENT



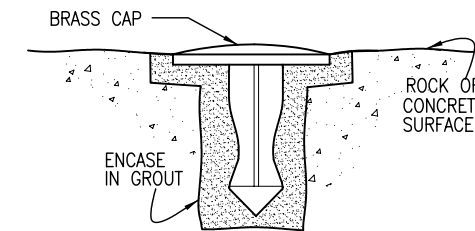
TYPE 1A MONUMENT
INCLUDES MONUMENT BOX



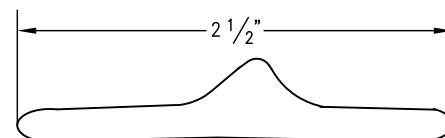
SECTION A-A



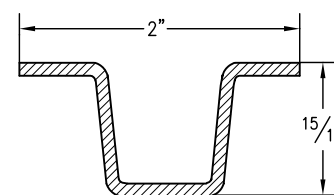
TYPE 3 MONUMENT



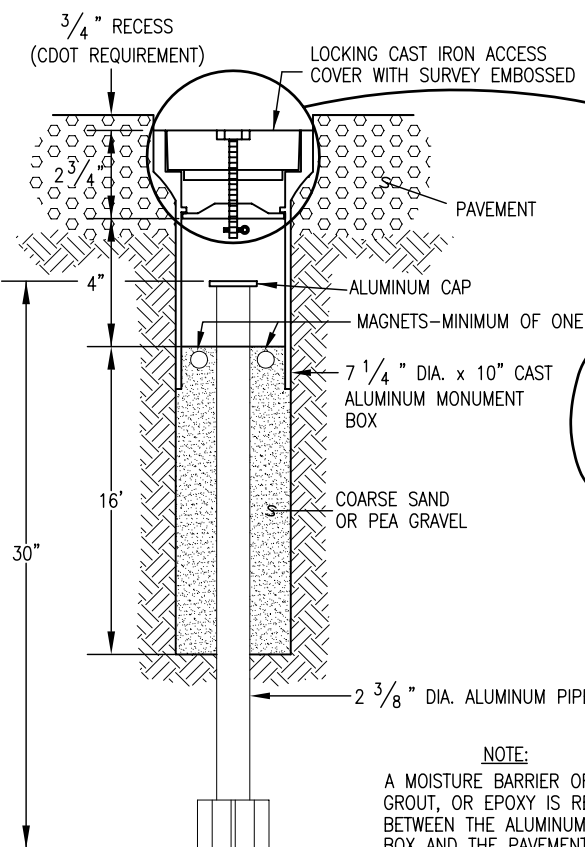
TYPE 5 MONUMENT
ALUMINUM CAP AND TYPE 5(S)
DETAILS SHOWN ON SHEET 2



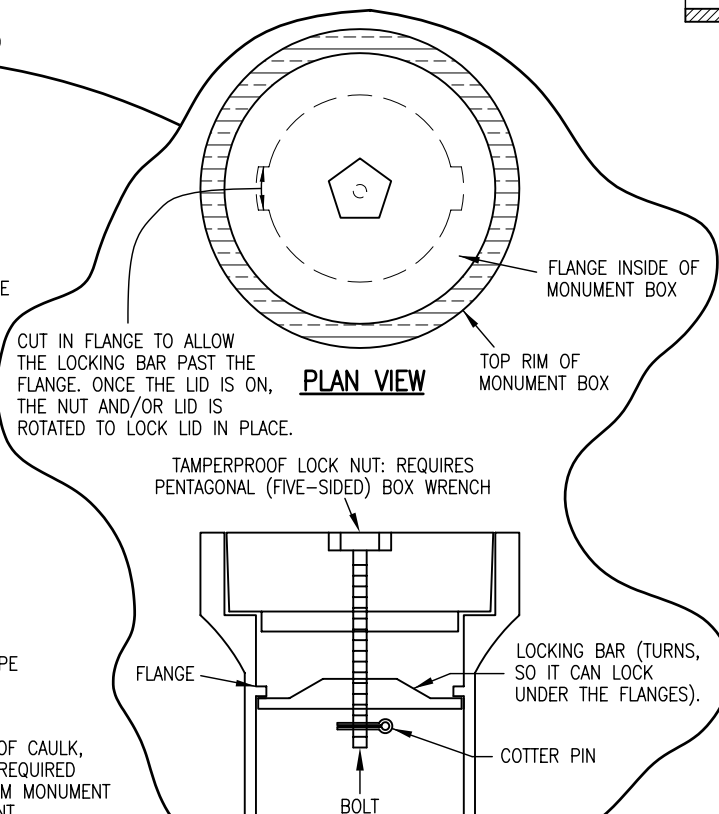
SECTION B-B



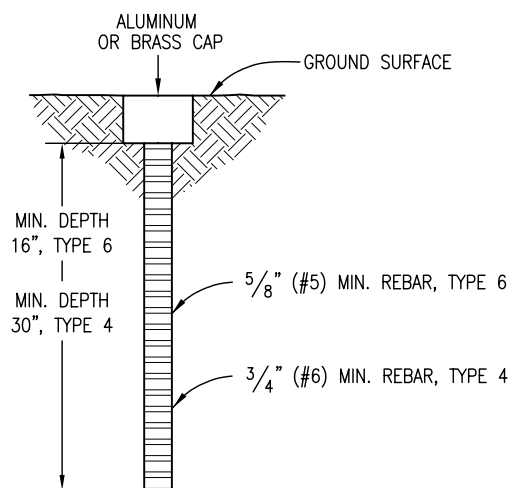
DELINEATOR POST
SECTION C-C



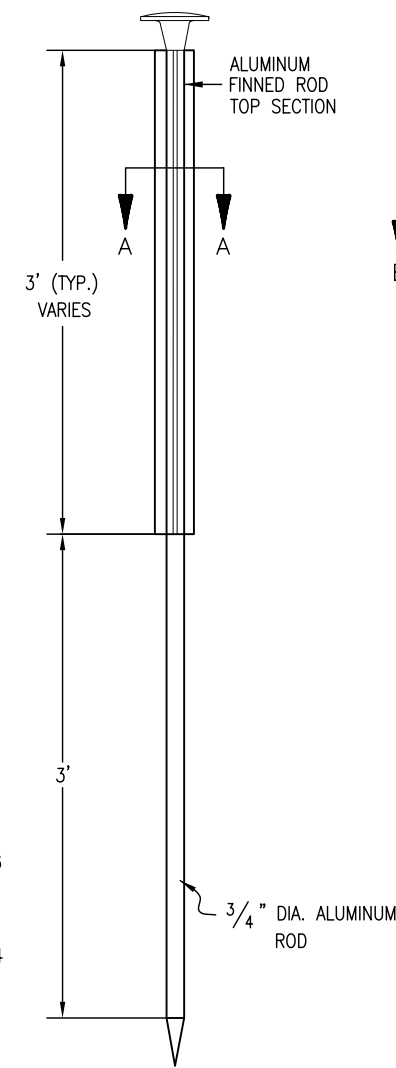
TYPE 3A MONUMENT
ROADWAY INSTALLATION
INCLUDES MONUMENT BOX



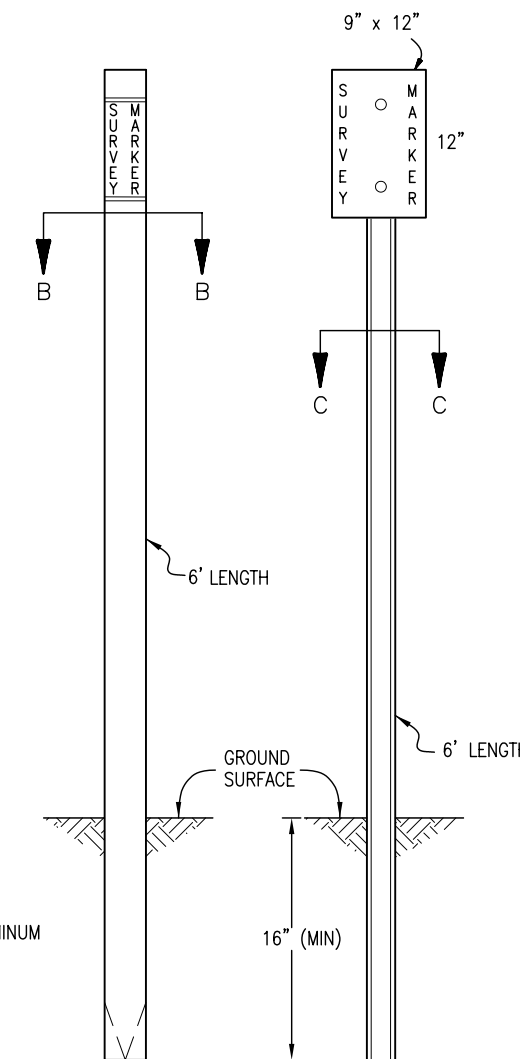
LOCKING CAST IRON ACCESS COVER



TYPE 4 AND TYPE 6 MONUMENT



TYPE 2 MONUMENT
TYPE 2A INCLUDES MONUMENT BOX



WITNESS POSTS

Computer File Information

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Drawing File Name: 629010102.dwg	
CAD Ver.: MicroStation V8	Scale: Not to Scale Units: English

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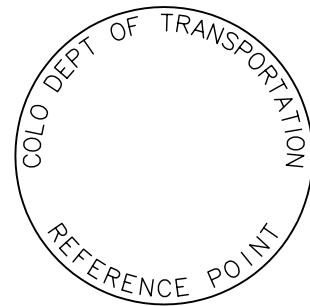
**SURVEY
MONUMENTS**

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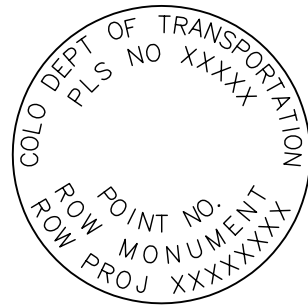
STANDARD PLAN NO.

M-629-1

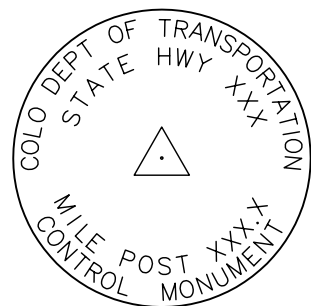
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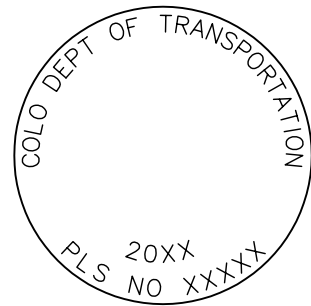
REFERENCE MONUMENT CAP



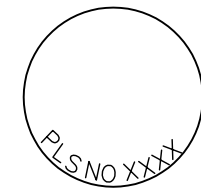
ROW MONUMENT CAP



CONTROL MONUMENT CAP

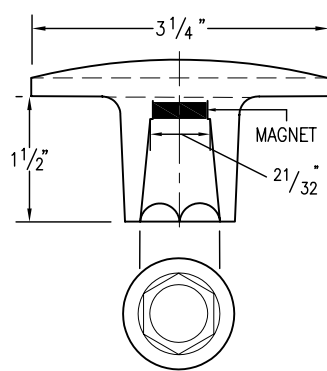


ALIQUOT CORNER MONUMENT CAP

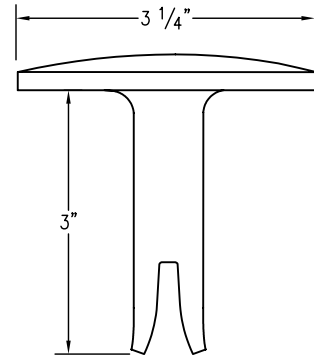


ALUMINUM CAP

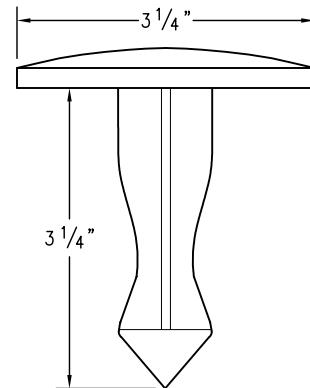
NOTE: A BLANK CAP MAY BE SUBSTITUTED IF THE APPROPRIATE CAP SHOWN ABOVE IS NOT AVAILABLE. IF A BLANK CAP IS USED, ALL INFORMATION NORMALLY INCLUDED ON THE APPROPRIATE STANDARD CAP, SHALL BE STAMPED ON THE BLANK CAP ALONG WITH SPECIFIC PROJECT INFORMATION SUCH AS PROJECT NO., DATE, POINT NO., ETC..



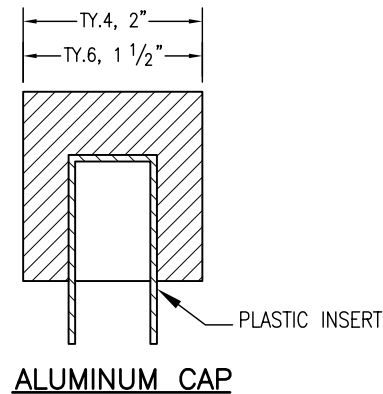
ALUMINUM CAP
USED WITH ALUMINUM ROD



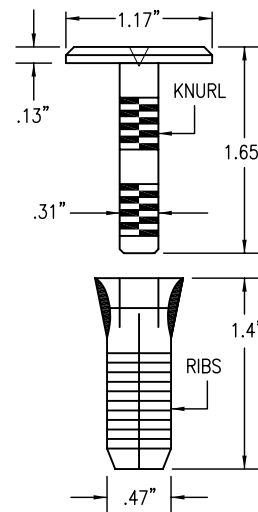
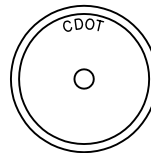
ALUMINUM CAP TYPE 5
FOR PLACING IN EXISTING CONCRETE OR ROCK



BRASS CAP TYPE 5
FOR PLACING IN EXISTING CONCRETE OR ROCK



ALUMINUM CAP



COPPER ALLOY CAP TYPE 5(S)
FOR PLACING IN EXISTING SIDEWALK, CURB, OR GUTTER

ALL MONUMENTATION MATERIALS WILL BE FURNISHED BY CDOT
THE MONUMENT TYPE SHALL MEET THE MINIMUM STANDARDS AS DETERMINED BY THE COLORADO STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS RULES (STATE BOARD RULES).
THE CDOT SURVEY COORDINATOR SHALL APPROVE ALL EXCEPTIONS FOR STAMPING MONUMENTS DIFFERING FROM THE STANDARDS.

TYPE 1 AND TYPE 1A ALUMINUM FINNED ROD MONUMENTS

THIS MONUMENT SHALL BE USED FOR ROW OR REFERENCE MONUMENTS OR MAY BE USED FOR AN ALIQUOT CORNER MONUMENT. WHEN USED AS AN ALIQUOT CORNER MONUMENT, INSTALLATION AND RECORD FILING REQUIREMENTS SHALL BE AS STATED FOR TYPE 3 AND TYPE 3A MONUMENTS.
MONUMENTS SHALL BE INSTALLED BY ATTACHING THE PROPER SIZE TIP TO ONE END OF A SECTION OF FINNED ROD, AND A 3 IN. LONG X 3/4 IN. DIA. STAINLESS STEEL ADAPTER TO THE OTHER END. THE DRIVER IS THEN PLACED OVER THE STAINLESS STEEL ADAPTER FOR THE HAMMER TO CONTACT. TYPE 1 MONUMENTS SHALL USE A MINIMUM 3 FT. SECTION OF FINNED ROD. WHEN SUBSURFACE ROCK OR CONCRETE IS ENCOUNTERED LESS THAN 3 FT. BELOW THE GROUND SURFACE, THE ROD SHALL BE EMBEDDED IN THE ROCK OR IN CONCRETE AT LEAST 6 IN. AND GROUTED IN PLACE. THE ROD MAY BE SHORTENED TO ACCOMMODATE THE CONDITIONS.
WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY. HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED.
TYPE 1A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 2 AND TYPE 2A ALUMINUM FINNED ROD MONUMENTS

THIS MONUMENT SHALL BE USED FOR HORIZONTAL AND VERTICAL CONTROL MONUMENTS. WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY. HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED. IN MOST SOIL CONDITIONS THE TYPE 2 MONUMENT IS EMBEDDED 6 FT. INTO THE GROUND.
THE MONUMENT SHALL BE INSTALLED BY FIRST ATTACHING THE PROPER SIZE TIP TO A 3 FT. LONG X 3/4 IN. DIA. ROD, THEN DRIVING THE ROD AT LEAST 30 IN. INTO THE GROUND. ADDITIONAL 3 FT. LONG X 3/4 IN. FINNED ROD SECTIONS SHALL BE ADDED AND DRIVEN FLUSH WITH THE GROUND UNTIL THE MONUMENT IS IN A STABLE POSITION. THE FINNED ROD SECTIONS SHALL BE BENT OVER USING PLIERS TO ACCOMMODATE INSTALLING THE CAP. THE CAP IS FIRMLY SEATED ONTO THE LAST FINNED SECTION OF ROD USING A DEAD BLOW SLEDGE HAMMER.
TYPE 2A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 3 AND TYPE 3A ALUMINUM PIPE MONUMENTS

THIS MONUMENT SHALL BE USED FOR AN ALIQUOT CORNER MONUMENT. THE INSTALLATION OF THIS MONUMENT AND RECORD FILING SHALL BE DONE IN ACCORDANCE WITH THE STATE BOARD RULES. ALSO REFER TO THE CDOT SURVEY MANUAL AND THE BUREAU OF LAND MANAGEMENT REQUIREMENTS FOR MONUMENT INSTALLATION. THE LAND SURVEYOR'S LICENSE NUMBER AND THE YEAR SHALL BE STAMPED ON THE CAP.
TYPE 3A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 4 ALUMINUM MONUMENT

THIS MONUMENT MAY BE INSTALLED IN LIEU OF REPLACING THE ENTIRE MONUMENT WHEN REBAR IS IN PLACE AT AN ALIQUOT CORNER LOCATION. REFER TO THE STATE BOARD RULES. A MINIMUM 2 IN. DIA. CAP SHALL BE USED ON 3/4 IN. (#6) REBAR.

TYPE 5 BRASS/ALUMINUM CAP MONUMENT

THIS MONUMENT MAY BE INSTALLED IN LIEU OF ALL OTHER CDOT MONUMENTS, WHEN THE POSITION IS LOCATED IN CONCRETE OR STABLE ROCK FORMATION.

TYPE 5(S) COPPER ALLOY CAP MONUMENT – SMALL

THIS MONUMENT MAY BE INSTALLED IN LIEU OF A TYPE 5 MONUMENT, WHEN THE POSITION IS LOCATED IN A CONCRETE SIDEWALK, CURB OR GUTTER, OR WHEN SETTING A TYPE 5 WOULD COMPROMISE THE INTEGRITY OF THE RECEIVING STRUCTURE.

STAMPING REQUIREMENTS:

- "RP", WHEN THE APPLICATION IS A REFERENCE POINT.
- "ROW", POINT NUMBER, "LS", AND REGISTRATION NUMBER WHEN THE APPLICATION IS A ROW POINT.
- "CP" AND A UNIQUE IDENTIFIER PROVIDED BY THE REGION SURVEY COORDINATOR, WHEN THE APPLICATION IS A CONTROL POINT.
- "PE", POINT NUMBER, "LS", AND REGISTRATION NUMBER, WHEN THE APPLICATION IS A PERMANENT EASEMENT POINT.
- "PP" AND POINT NUMBER, WHEN THE APPLICATION IS A PROJECT POINT.

TYPE 6 ALUMINUM MONUMENT

THIS MONUMENT SHALL BE USED FOR PERMANENT EASEMENTS, PROJECT BENCH MARKS, PROJECT POINTS, AND REFERENCES. AN ALUMINUM CAP WITH A MINIMUM DIAMETER OF 1 1/2 IN., SHALL BE USED ON 5/8 IN. (#5) MINIMUM REBAR.

*** WITNESS POSTS**

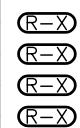
THE WITNESS POST WILL BE SUPPLIED BY CDOT AND INSTALLATION SHALL BE INCLUDED IN THE WORK. IT SHALL BE DRIVEN WITHIN 1 FT. OF THE MONUMENT WHEN POSSIBLE. A DELINEATOR POST WITH A 9 IN. X 12 IN. METAL SIGN PANEL MAY BE USED IN LIEU OF THE PLASTIC POST. THIS POST SHALL CONFORM TO STANDARD PLAN S-612-1. A REQUIRED WITNESS POST MAY BE OMITTED WITH THE APPROVAL OF THE ENGINEER IF THE WITNESS POST LOCATION IS WITHIN A TRAVELED WAY, DRIVEWAY, OR ACCESS OPENING.

MONUMENT APPLICATION

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

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Date:	Comments

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Project Development Branch SRJ/LTA

SURVEY MONUMENTS

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