

COLORADO DEPARTMENT OF TRANSPORTATION



Region 6
2000 South Holly Street
Denver, CO 80222
Phone: (303) 757-9212 FAX: (303) 757-9053

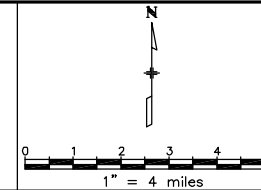
Right of Way Plans & Survey Unit: Patricia Dickerson, PLS II

Sheet Revisions

Broomfield County - PLSS, ROW, Project control, property monuments:

T1S - R69W: Sec. 28, 29, 33, 34, 35; T2S - R69W: Sec. 2, 3.

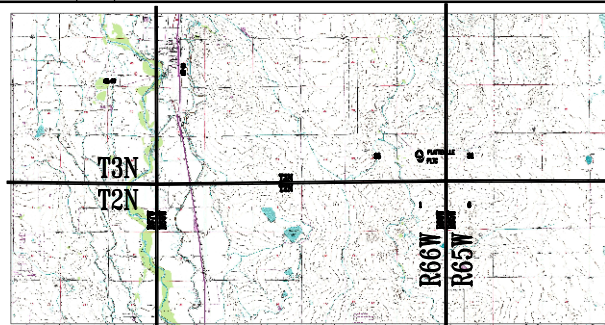
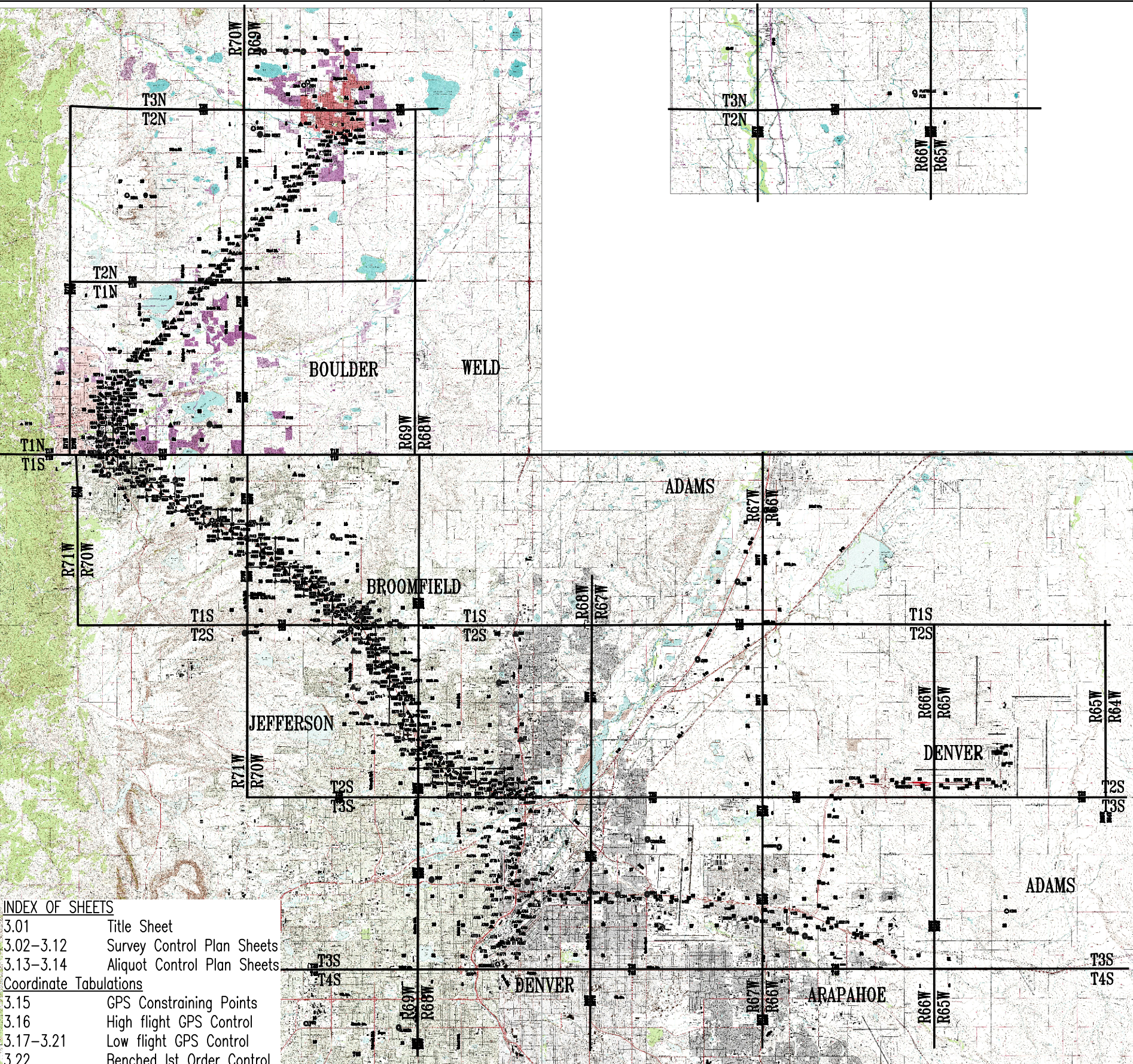
REGION 6
PRELIMINARY PLANS
SEP 03 2009
SUBJECT TO CHANGES



Land Survey Control Diagram

Title Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code: 14133	Last Mod. Date: 04-17-2009	Subset: 1 of 24	Sheet No.: 3



GENERAL NOTES:

1. This Land Survey Control Diagram is prepared for Colorado Department of Transportation (CDOT) in conjunction with Environmental Impact Statements and design studies for the US-36 and I-70 transportation corridors in the Denver Metropolitan Area. This Land Survey Control Diagram is not a Land Survey Plat, Boundary Survey or Right of Way Plat and does not address matters of title. No analysis has been performed to determine if the recovered Public Land Survey System monuments, shown herein, are at the actual position of the land corners they are intended to monument. Use of the information contained herein for non-CDOT purposes is at the users risk. It is the responsibility of any CDOT and/or non-CDOT user to verify the quality and timeliness of the information contained in this diagram.
2. Primary Horizontal Control Tolerance meets CDOT Class A (+/- 0.07' with 95% certainty).
3. Secondary Horizontal Control Tolerance meets CDOT Class B (+/-0.13' with 95% certainty).
4. BASIS OF BEARINGS: All bearings are grid bearings of the UTM System, Zone 13 North, NAD 1983 (1992) determined by a fast static GPS survey. The line between point MCDONNELL and point W410, monumented as shown herein, bears N14°20'15.6"W.
5. BASIS OF ELEVATION: Elevations are NAVD '88 Datum established by digital differential levels by CDOT crews as part of a First Order Class II leveling project. Elevations identified with an asterisk (*) are National Geodetic Survey (NGS) published values. Elevations followed by (B) were derived from the differential level loops, all other elevations were GPS derived (Geoid '99). On June 25, 2009, the NGS "Blue Booked" Level Project L26455 as a Second Order Class I Vertical Control. Project elevations have NOT been changed to to the "Blue Book" value.
6. Elevations on control points established by digital differential levels were measured with an accuracy exceeding 0.018' times the square root of the distance leveled in miles
7. To convert Project Specific Coordinates to UTM GRID:
 Project Northing - $(442,527.62+14,000,000) \times (0.999350021) = 14,433,140.28$ - UTM Grid
 Project Easting - $(641,175.35+1,000,000) \times (0.999350021) = 1,640,108.62$ - UTM Grid
8. 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:

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

Joseph T. Gunderson, PLS No. 30826

Date _____

Broomfield County Survey Depositing Certificate

Deposited this _____ day of _____, 200____, at _____ o'clock ____M. in Book _____ at page _____ of Land Surveys/Right-of-Way

Surveys, under Reception No. _____.

By: _____

Title: _____

INDEX OF SHEETS

- 3.01 Title Sheet
- 3.02-3.12 Survey Control Plan Sheets
- 3.13-3.14 Aliquot Control Plan Sheets
- Coordinate Tabulations
- 3.15 GPS Constraining Points
- 3.16 High flight GPS Control
- 3.17-3.21 Low flight GPS Control
- 3.22 Benched 1st Order Control
- 3.23-3.24 Aliquot Control

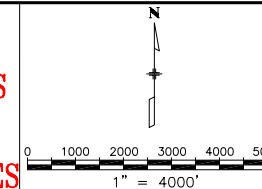


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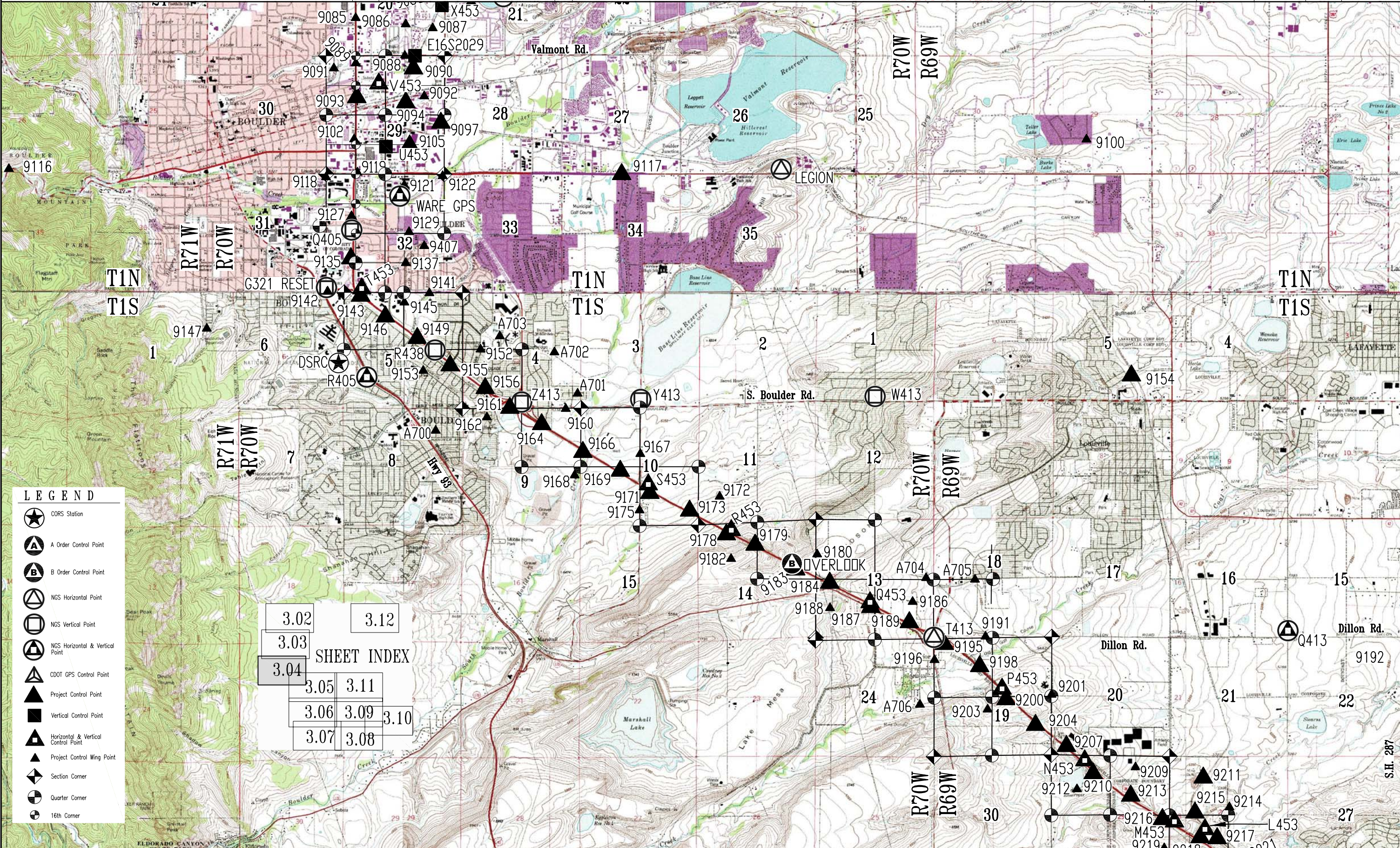
Right of Way Plans & Survey Unit: Patricia Dickerson, PLS II

T1N - R71W: Sec. 26;
T1N - R70W: Sec. 20, 21, 29, 32;
T1S - R70W: Sec. 4, 5, 9, 10, 13, 14, 24;
T1S - R69W: Sec. 18, 19, 20, 28, 29.

REGION 6
PRELIMINARY PLANS
SEP 03 2009
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Plan Sheet			
Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset	Sheet No.
14133	04-17-2009	4 of 24	3.04



LEGEND

- CORS Station
- A Order Control Point
- B Order Control Point
- NGS Horizontal Point
- NGS Vertical Point
- NGS Horizontal & Vertical Point
- CDOT GPS Control Point
- Project Control Point
- Vertical Control Point
- Horizontal & Vertical Control Point
- Project Control Wing Point
- Section Corner
- Quarter Corner
- 16th Corner

SHEET INDEX

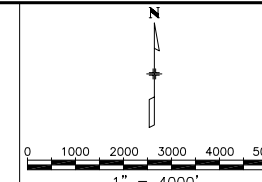
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3.03	
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3.05	3.11
3.06	3.09
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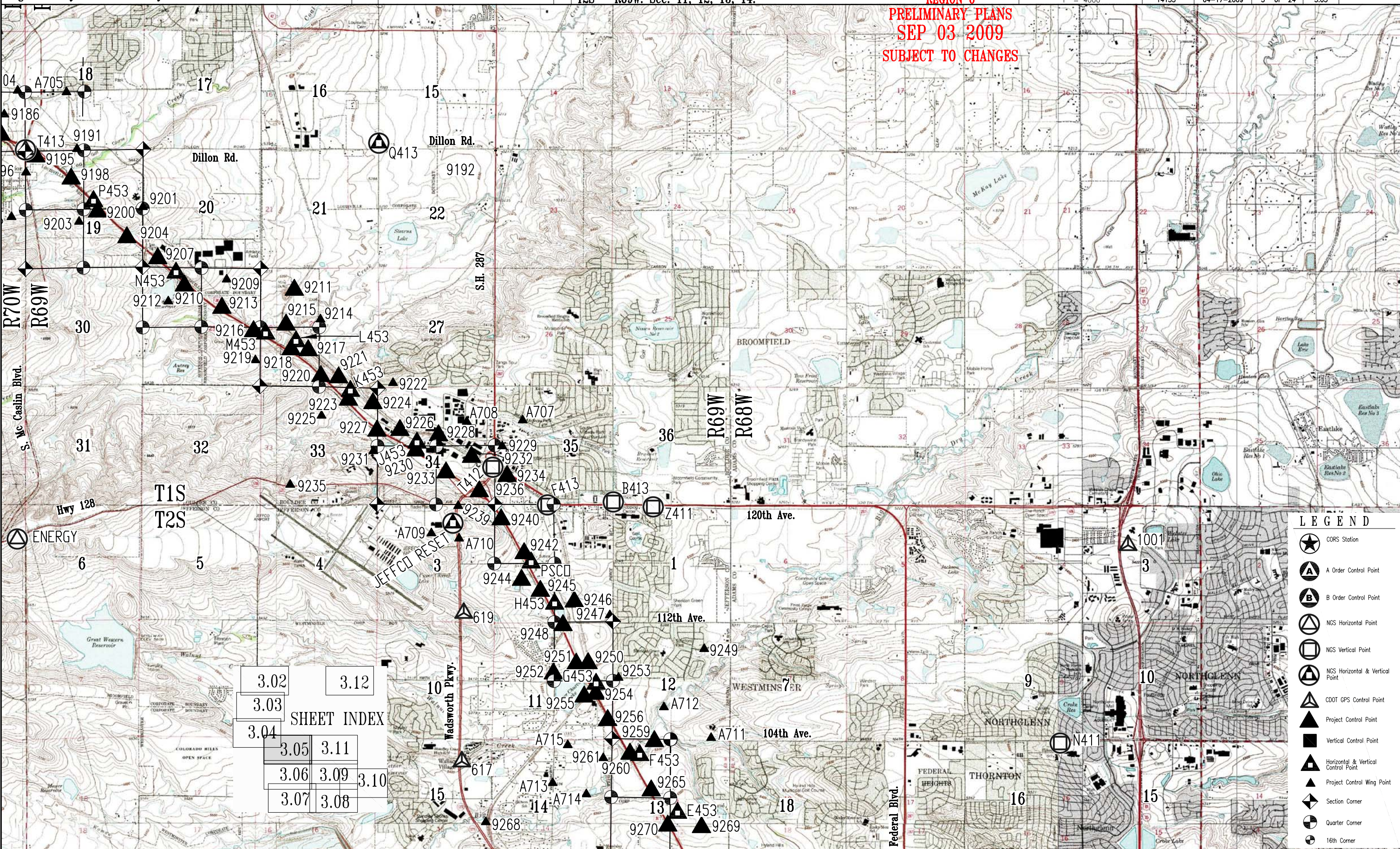


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REGION 6
PRELIMINARY PLANS
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3.04	SHEET INDEX
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LEGEND

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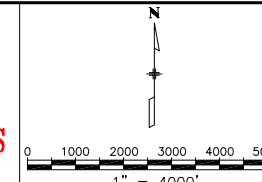
T2S - R69W: Sec. 13, 14, 24.

Adams County - PLSS, ROW, Project control, property monuments:

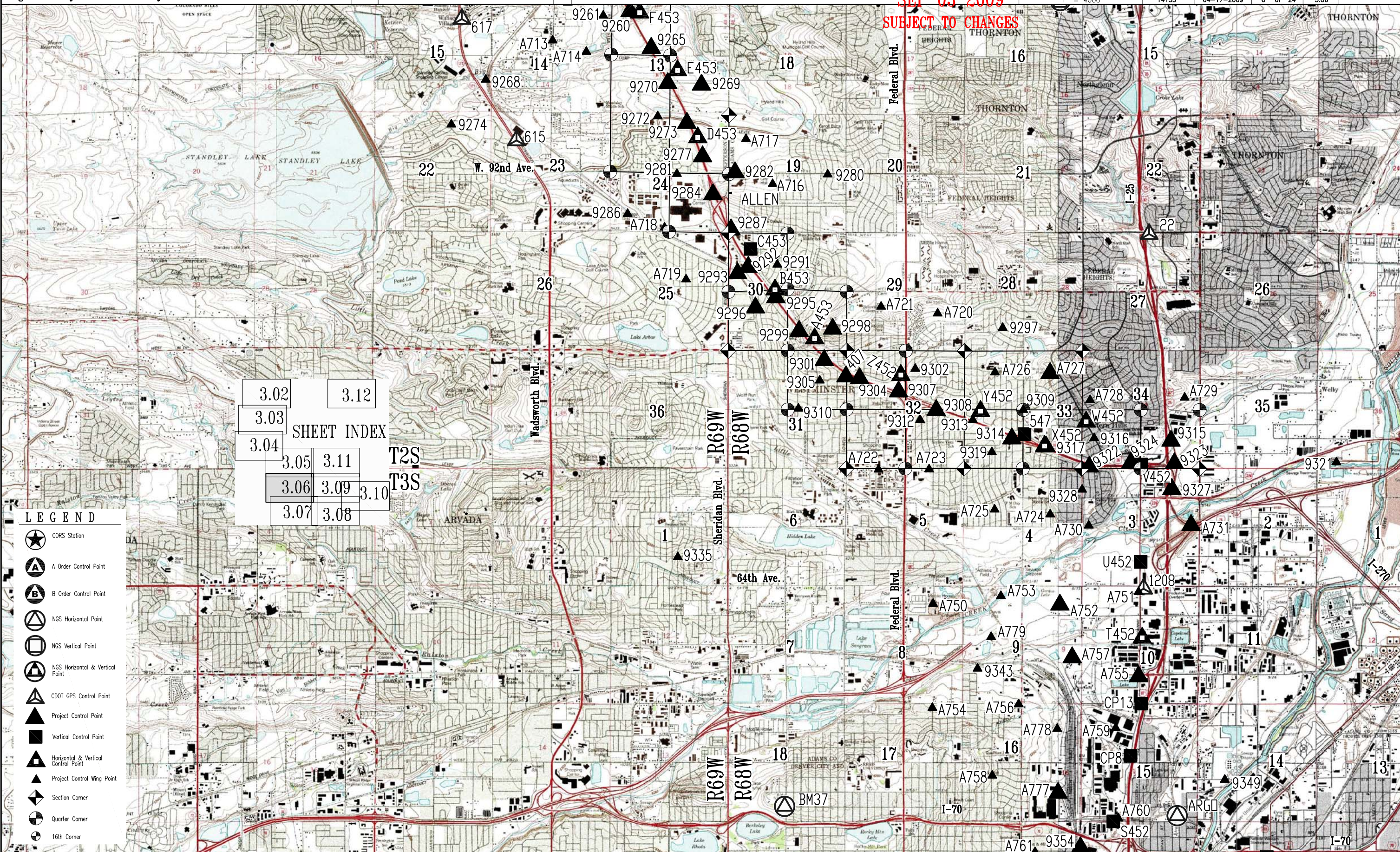
T2S - R68W: Sec. 19, 30, 31, 32, 33, 34;

T3S - R68W: Sec. 3, 10, 15.

REGION 6
PRELIMINARY PLANS
SEP 03 2009



Plan Sheet			
Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
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LEGEND

- CORS Station
- A Order Control Point
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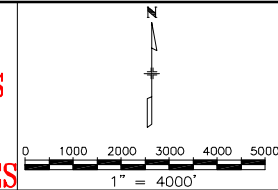
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Sheet Revisions

Denver County - PLSS, ROW, Project control, property monuments:
T3S - R68W: Sec. 15, 16, 21, 22, 27, 28,

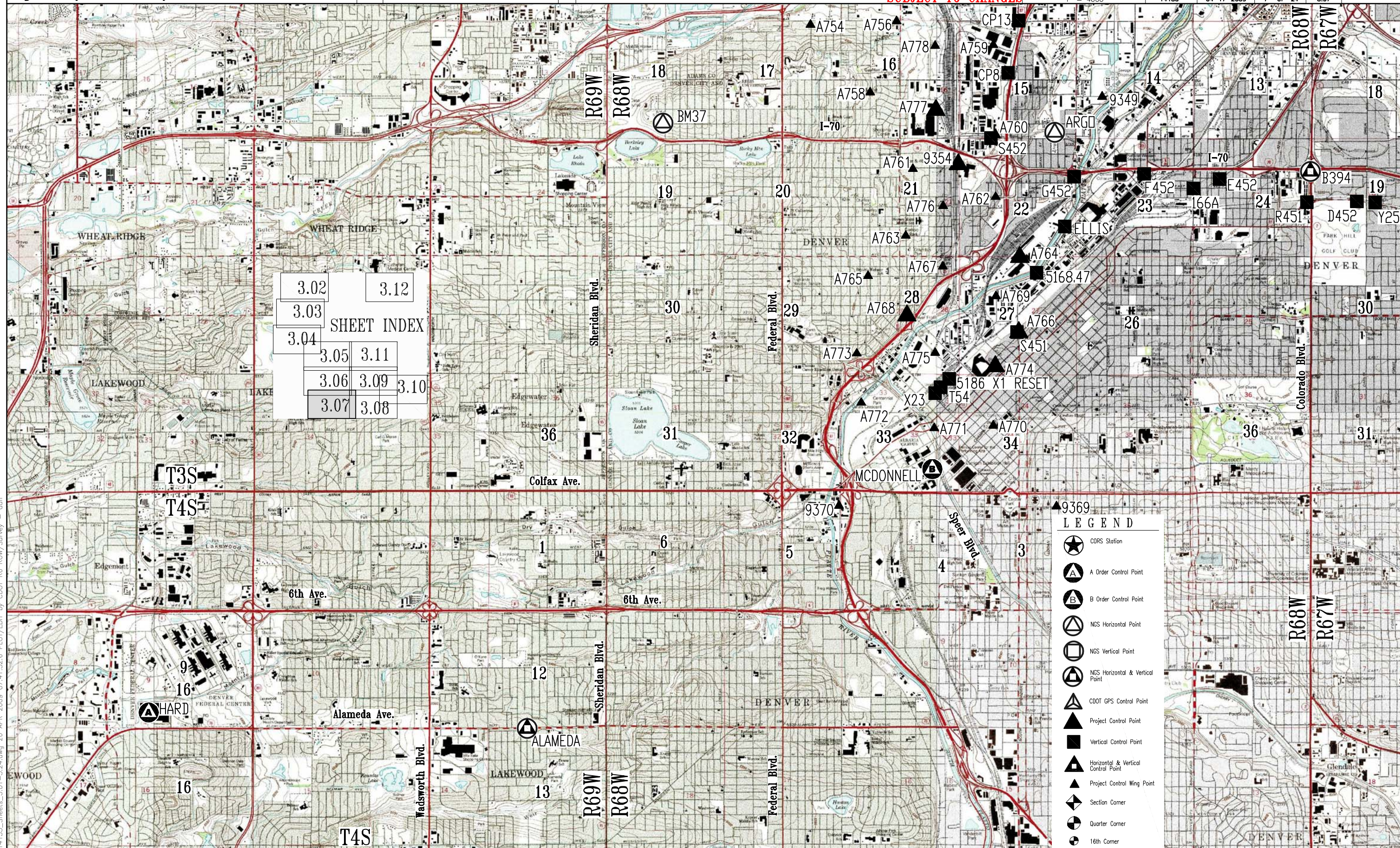
REGION 6
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Land Survey Control Diagram

Plan Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
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Project Code:	Last Mod. Date:	Subset:	Sheet No.:
14133	04-17-2009	7 of 24	3.07



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3.03	
3.04	SHEET INDEX
3.05	3.11
3.06	3.09
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LEGEND

- CORS Station
- A Order Control Point
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- NCS Horizontal Point
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Boulder County: T1N - R70W: Sec. 29, 32; T1S - R70W: Sec. 4, 5, 9, 10, 13, 14; T1S - R69W: Sec.: 19, 29. Broomfield County: T1S - R69W: Sec. 28, 29.

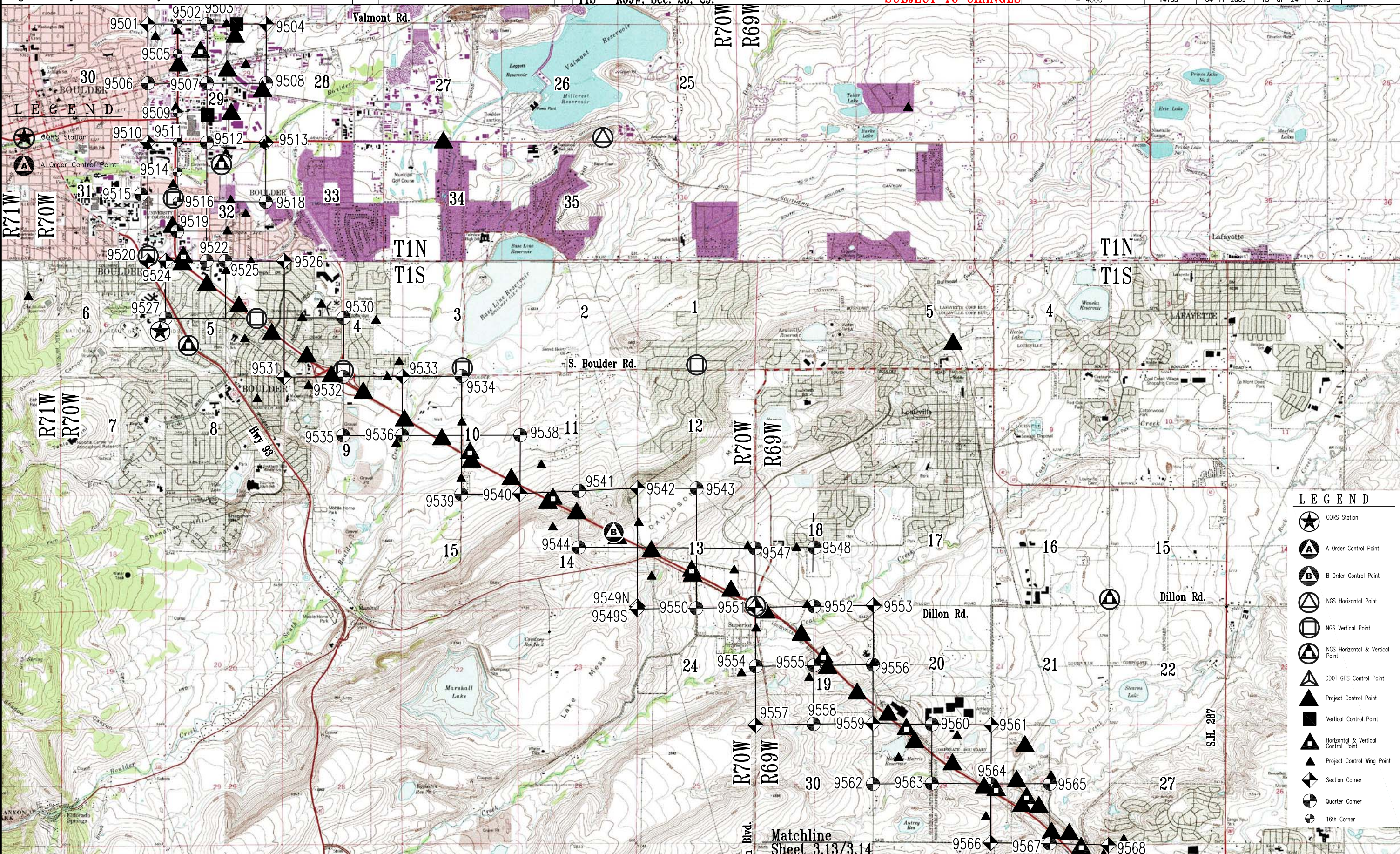
REGION 6 PRELIMINARY PLANS SEP 03 2009 SUBJECT TO CHANGES

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
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Project Code: 14133	Last Mod. Date: 04-17-2009	Subset: 13 of 24	Sheet No.: 3.13



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Broomfield County: T1S - R69W: Sec. 34; T2S - R69W: Sec. 2, 11. Jefferson County: T2S - R69W: Sec. 13, 14, 24. Adams County: T2S - R68W: Sec. 30, 31, 32, 33, 34.

REGION 6 PRELIMINARY PLANS SEP 03 2009 SUBJECT TO CHANGES

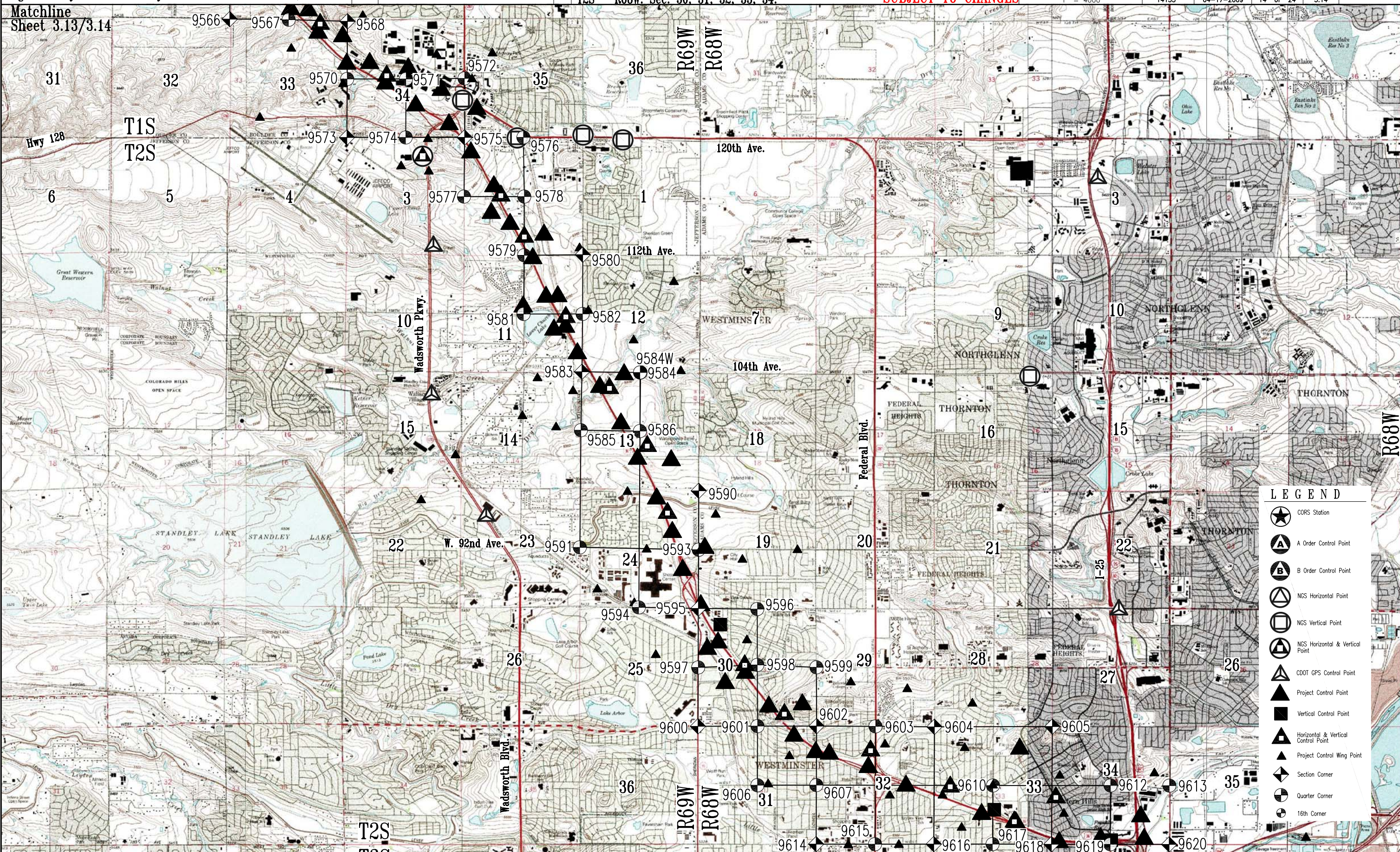
Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code: 14133	Last Mod. Date: 04-17-2009	Subset: 14 of 24	Sheet No.: 3.14



Region 6 Address: 2000 South Holly Street Denver, CO 80222 Phone: (303) 757-9212 FAX: (303) 757-9053

Right of Way Plans & Survey Unit: Patricia Dickerson, PLS II

Matchline Sheet 3.13/3.14



LEGEND

- CORS Station
- A Order Control Point
- B Order Control Point
- NGS Horizontal Point
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- NGS Horizontal & Vertical Point
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Sheet Revisions

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**REGION 6
PRELIMINARY PLANS
SEP 03 2009
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Land Survey Control Diagram

Tabulation Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset	Sheet No.
14133	07-17-2008	15 of 24	3.15

Existant Control Points used to constrain GPS Survey (* = NGS published elevation, B = benched elevation, blank = GPS derived elevation (Geiod 1999))

Name	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (UTM 13N)	Easting (UTM 13N)	Name	Northing (Project)	Easting (Project)	Elevation NAVD'88	Δ1	DESCRIPTION
ALAMEDA	39°42'39.39630"N	105°03'57.01077"W	5403.23	-0°02'31.4"	14421485.720	1621901.634	ALAMEDA	430865.480	622956.522	5457.68	*	NGS standard disk in concrete "ALAMEDA 1977" PID - KK1393
ALLEN	39°51'40.26577"N	105°03'10.68547"W	5488.89	-0°02'02.2"	14476190.311	1625552.882	ALLEN	485605.651	626610.145	5544.17	B	NGS standard disk in concrete "ALLEN 1977" PID - KK1753
ARGO	39°47'04.34115"N	104°58'53.46470"W	5090.18	0°00'42.6"	14448277.492	1645608.807	ARGO	457674.677	646679.115	5146.34		NGS deep rod in logo box "ARGO 1995" PID - AE5245
B 394	39°46'47.04085"N	104°56'26.22144"W	5205.13	0°02'16.8"	14446532.626	1657100.225	B 394	455928.677	658178.007	5261.82	*	NGS standard disk in concrete "B 394 1983" PID - KK1294
BM 37	39°47'08.43244"N	105°02'39.10579"W	5339.96	-0°01'41.8"	14448693.840	1628000.911	BM 37	458091.296	629059.766	5395.21		NGS disk in concrete "5392.97 BM NO 37 DENVER 1936" PID - AE5248
C119 MP49.50	40°05'17.49398"N	105°11'24.75667"W	5100.80	-0°07'21.0"	14558905.138	1587216.700	C119 MP49.50	568374.276	588249.029	5154.32	B	CDOH Type II monument "119 49.50" PID - AE6473
CHAMBERS	39°48'07.05737"N	104°49'00.10239"W	5259.12	0°07'02.4"	14454673.200	1613126.783	CHAMBERS	464074.545	692999.797	5317.03	*	NGS standard disk in concrete "CHAMBERS 1968" PID - KK1531
DSRC	39°59'29.12990"N	105°15'39.67584"W	5437.57	-0°10'03.9"	14523717.987	1567308.282	DSRC	533164.239	568327.663			DSRC (BOULDER CORS L1 PC) NAD 83 (CORS) 2002 PID - AJ7970
DUNCAN	40°12'11.07717"N	105°06'00.78126"W	5011.90	-0°03'52.9"	14600699.110	1612434.112	DUNCAN	610195.431	613482.842	5066.71		NGS standard disk in concrete "DUNCAN 1993" PID - AE6476
ENERGY	39°54'35.73345"N	105°10'01.20195"W	5802.88	-0°06'25.7"	14493977.919	1593586.602	ENERGY	503404.828	594623.074	5856.42		NGS standard disk in concrete "ENERGY 1977" PID - KK1797
HARD	39°42'46.27780"N	105°07'34.80804"W	5609.65	-0°04'50.6"	14422199.981	1604888.516	HARD	431580.205	605932.339	5662.83		NGS deep rod in logo box "HARD 2001" PID - DE7958
J 260	39°53'48.27245"N	104°52'11.55589"W	5017.35	0°05'00.5"	14489160.108	1676912.674	J 260	498583.884	678003.341	5075.56	*	NGS standard disk in concrete "J 260 1938" PID - KK0402
J 320 RESET	40°09'42.73523"N	105°09'26.78486"W	4977.28	-0°06'05.5"	14585717.013	1596429.657	J 320 RESET	595203.589	597467.978	5030.91		NGS standard disk in concrete "J 320 RESET 1984" PID - LL1421
JEFFCO RESET	39°54'43.05405"N	105°05'50.35674"W	5503.06	-0°10'44.8"	14454689.471	1613126.767	JEFFCO RESET	504116.842	614175.948	5557.78	*	NGS standard disk in concrete "JEFFCO 1977 1980" PID - KK1432
KING	39°46'09.38811"N	104°40'04.44780"W	5598.95	0°12'44.8"	14442891.666	1733733.340	KING	452285.348	734860.964	5657.78		NGS standard disk in concrete "KING 1968" PID - KK1656
L 260	39°56'09.42790"N	104°50'37.66983"W	4976.37	0°06'01.0"	14503449.524	1684202.268	L 260	512882.593	685297.677	5034.78	*	NGS standard disk in concrete "L 260 1938" PID - KK0411
LEGION	40°00'55.32938"N	105°11'25.24615"W	5306.31	-0°07'20.6"	14532386.977	1587121.982	LEGION	541838.868	588154.250	5359.64		NGS standard disk in concrete "LEGION 1985" PID - LL1425
MCDONNELL	39°44'34.68939"N	105°00'03.94509"W	5153.02	-0°00'02.5"	14433140.284	1640108.623	MCDONNELL	442527.624	641175.353	5208.74		NGS deep rod in logo box "MCDONNELL 1991" PID - KK2099
N 260 RESET	39°58'19.52094"N	104°49'29.80882"W	4938.75	0°06'44.8"	14516618.161	1689460.422	N 260 RESET	526059.795	690559.251	4997.44	*	NGS standard disk in concrete "N 260 RESET 1979" PID - KK1304
NOAA	40°07'51.01723"N	105°14'41.52185"W	5519.80	-0°09'28.2"	14574471.728	1571972.406	NOAA	583950.991	572994.820	5571.26	*	NGS standard disk in concrete "NOAA 1980" PID - LL1083
OVERLOOK	39°58'01.27002"N	105°11'18.68937"W	5626.13	-0°07'16.0"	14514779.779	1587594.702	OVERLOOK	524220.218	588627.277	5679.38	B	NGS standard disk in concrete "OVERLOOK 1985" PID - KK2060
PLATTEVILLE	40°10'58.03235"N	104°43'34.80691"W	4928.60	0°10'35.7"	14593412.356	1716852.045	PLATTEVILLE	602903.937	717968.689	4988.57	*	NGS standard disk in concrete "PLATTEVILLE NCMN 1981" PID - LL1438
PLTC	40°10'53.71230"N	104°43'33.33342"W	4933.77	0°10'36.6"	14592975.720	1716967.713	PLTC	602467.018	718084.433			PLSTC (PLATTEVILLE CORS L1 PC) NAD 83 (CORS) 2002 PID - AI7426
Q 413	39°57'31.53189"N	105°06'33.29741"W	5241.18	-0°04'12.6"	14511734.707	1609802.901	Q 413	521173.165	610849.920	5296.02	*	NGS deep rod in logo box "Q 413 1984" PID - KK1556
R 405	39°59'22.90518"N	105°15'23.36291"W	5347.31	-0°09'53.4"	14523084.672	1568575.646	R 405	532530.512	569595.851	5398.70	*	NGS standard disk in concrete "R 405 1984" PID - KK1351
TESSAR	40°05'14.86846"N	105°09'01.68715"W	5294.86	0°05'48.8"	14558618.282	1598331.582	TESSAR	568087.233	599371.140	5349.03		NGS standard disk in concrete "TESSAR 1999" PID - AI3563
TMGO	40°07'51.34512"N	105°13'57.71720"W	5492.46	-0°08'59.9"	14574495.759	1575373.634	TMGO	583975.037	576398.260			TMGO (TABLE MOUNTAIN CORS L1 PC) NAD 83 (CORS) 2002 PID - AB6369
W 410	40°12'12.78066"N	105°09'16.79420"W	5062.06	-0°05'59.4"	14600893.253	1597231.448	W 410	610389.700	598270.290	5115.37	*	NGS deep rod in logo box "W 410 1984" PID - LL1075
WARE GPS	40°00'42.99834"N	105°15'04.67907"W	5213.10	-0°09'41.7"	14531181.979	1570052.160	WARE GPS	540633.086	571073.325	5264.69	*	NGS standard disk in concrete "WARE GPS 1983" PID - LL1093
X 438	40°02'11.39028"N	105°14'05.37373"W	5237.60	-0°09'03.8"	14540110.303	1574688.406	X 438	549567.217	575712.587	5289.64	*	NGS standard disk in concrete "X 438 1985" PID - LL1137
ZDV A	40°11'11.78513"N	105°07'43.52221"W	5002.04	-0°04'59.1"	14594711.787	1604456.721	ZDV A	604204.214	605500.263	5056.16	*	NGS deep rod in logo box "ZDV A 1995" PID - AA6417
ZDV B	40°11'17.50341"N	105°07'34.40823"W	5005.40	-0°04'53.2"	14595289.196	1605164.604	ZDV B	604781.998	606208.606	5059.54	*	NGS deep rod in logo box "ZDV B 1995" PID - AA6418
ZDV1	40°11'14.27224"N	105°07'37.96036"W	5061.54	-0°04'55.5"	14594962.745	1604888.568	ZDV1	604455.335	605932.391			ZDV1 (DENVER WAAS 1 CORS ARP) NAD 83 (CORS) 2002 PID - DF9219
2V2 A	40°09'52.95922"N	105°09'42.57801"W	4987.00	-0°06'15.8"	14586753.403	1595205.867	2V2 A	596240.653	596243.392	5040.49		NGS deep rod in logo box "2V2 A 1999" PID - AI5918
22	39°51'22.17346"N	104°59'09.54063"W	5213.47	0°00'32.3"	14474356.222	1644500.222	22	483770.369	645419.711	5269.92		CDOT Type 2A (CDOT R6 Metro Network) "1.088002" (GRANT)
615	39°52'03.58583"N	105°05'13.56790"W	5369.29	-0°03'21.0"	14478556.587	1615976.589	615	487973.466	617027.623	5424.11		CDOT Type 2A (CDOT R6 Metro Network) "4.094080" (HOMESTEAD)
619	39°54'03.21941"N	105°05'44.08648"W	5489.84	-0°03'40.7"	14490659.729	1613610.856	619	500084.480	614660.352	5544.85		CDOT Type 2A (CDOT R6 Metro Network) "4.112088" (HARRISON)
1001	39°54'33.42522"N	104°59'21.64886"W	5358.11	0°00'24.6"	14493700.836	1643404.020	1001	503127.565	644472.893	5414.65		CDOT Type 2A (CDOT R6 Metro Network) "1.118004"
1208	39°48'44.92742"N	104°59'12.77395"W	5125.67	0°00'30.2"	14458451.185	1644100.502	1208	467854.987	645169.828	5181.94		CDOT Type 2A (CDOT R6 Metro Network) "4.064000" (AMERICAN)
ONLY THE VERTICAL COMPONENT OF THE FOLLOWING POINTS WAS HELD FIXED WHEN CONSTRAINING THE FAST STATIC GPS SURVEY												
B 413	39°54'52.53196"N	105°04'18.03795"W	5309.31	-0°02'45.6"	14495641.344	1620318.409	B 413	505069.335	621372.267	5364.77	*	NGS deep rod in logo box "B 413 1984" PID - KK1424
C 394	39°46'41.71026"N	104°55'21.07497"W	5217.03	0°02'58.5"	14445997.343	1662184.808	C 394	455393.045	663265.896	5273.94	*	NGS standard disk in concrete "C 394 1983" PID - KK1293
COMMERCE	39°48'20.95229"N	104°54'10.74357"W	5147.95	0°03'43.6"	14456040.675	1667662.803	COMMERCE	465442.910	668747.454	5205.22	*	NGS standard disk in concrete "COMMERCE 1968" PID - KK1536
D 394	39°46'41.53359"N	104°54'11.77882"W	5218.12	0°03'42.8"	14445984.734	1667592.906	D 394	455380.428	668677.512	5275.23	*	NGS standard disk in concrete "D 394 1983" PID - KK1292
EMIL	39°45'25.51463"N	104°48'00.23563"W	5329.72	0°07'40.3"	14438343.737	1696606.446	EMIL	447734.462	697709.922	5387.73	*	NGS standard disk in concrete "EMIL 1984" PID - KK1518
N 411	39°53'05.69146"N	105°00'00.34397"W	5396.98	-0°00'00.2"	14484826.537	1640389.864	N 411	494247.494	641456.776	5453.16	*	NGS deep rod in logo box "N 411 1984" PID - KK1406
R 438	39°59'34.94036"N	105°14'44.16384"W	5301.16	-0°09'28.2"	14524293.445	1571628.835	R 438	533740.071	572651.025	5352.98	*	NGS deep rod in logo box "R 438 1985" PID - KK1561
SABLE	39°45'55.45787"N	104°49'54.39186"W	5276.09	0°06'27.4"	14441354.066	1687688.929	SABLE	450746.748	688786.605	5333.85	*	NGS standard disk in concrete "SABLE 1939" PID - KK0334
V 321 RESET	40°02'25.18646"N	105°14'33.62550"W	5244.81	-0°09'22.0"	14541511.689	1572495.616	V 321 RESET	550969.514	573518.370	5296.87	*	NGS standard disk in concrete "V 321 RESET 1982" PID - LL1138
V 406	39°45'35.47402"N	104°48'37.23125"W	5306.62	0°07'16.7"	14439344.810	1693716.177	V 406	448736.186	694817.774	5364.61	*	NGS deep rod in logo box "V 406 1984" PID - KK1517
W 413	39°59'14.88241"N	105°10'30.97157"W	5405.90	-0°06'45.5"	14522218.084	1591323.185	W 413	531663.361	592358.185	5459.59	*	NGS deep rod in logo box "W 413 1984" PID - KK1549
Y 413	39°59'13.33340"N	105°12'45.77308"W	5296.88	-0°08'12.1"	14522084.223	1580834.414	Y 413	531529.413	581862.591	5349.60	*	NGS deep rod in logo box "Y 413 1984" PID - KK1547



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Sheet Revisions

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REGION 6
PRELIMINARY PLANS
SEP 03 2009
SUBJECT TO CHANGES

Land Survey Control Diagram

Tabulation Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset	Sheet No.
14133	07-17-2008	16 of 24	3.16

High Flight Panel Points - Fast Static GPS Control (points set unless noted otherwise) (Elevations GPS derived, Geoid 1999)

Name	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (UTM 13N)	Easting (UTM 13N)	Name	Northing (Project)	Easting (Project)	Elevation NAVD'88	DESCRIPTION
9000	40°10'20.33984"N	105°05'59.44744"W	4940.45	-0°03'51.9"	14589497.533	1612524.968	9000	598986.569	613573.758	4995.29	PK nail
9001	40°10'06.83409"N	105°04'24.42130"W	5001.35	-0°02'50.6"	14588124.191	1619897.491	9001	597612.333	620951.076	5056.75	PK nail
9002	40°09'59.99827"N	105°07'50.39831"W	4937.33	-0°05'03.4"	14587451.092	1603912.591	9002	596938.797	604955.779	4991.55	60d nail
9005	40°09'37.62910"N	105°05'41.97124"W	4887.78	-0°03'40.5"	14585175.725	1613876.432	9005	594661.949	614926.100	4942.80	2" Aluminum Cap
9007	40°09'35.82235"N	105°06'28.90468"W	4900.72	-0°04'10.8"	14584997.129	1610233.726	9007	594483.237	611281.025	4955.47	2" Aluminum Cap
9012	40°09'08.73045"N	105°04'27.24791"W	4862.88	-0°02'52.3"	14582247.020	1619673.234	9012	591731.339	620726.673	4918.36	PK nail
9013	40°09'08.09149"N	105°05'44.93215"W	4886.08	-0°03'42.4"	14582188.157	1613643.415	9013	591672.438	614692.932	4941.13	No. 5 Rebar
9017	40°08'45.89318"N	105°07'25.32893"W	4935.05	-0°04'47.1"	14579952.363	1605847.600	9017	589435.189	606892.047	4989.55	PK nail
9024	40°08'05.86284"N	105°08'59.58852"W	5005.28	-0°05'47.8"	14575914.451	1598523.782	9024	585394.652	599563.466	5059.25	PK nail
9030	40°07'24.47419"N	105°07'51.11285"W	4954.96	-0°05'03.6"	14571719.494	1603833.974	9030	581196.966	604877.111	5009.41	No. 5 Rebar
9033	40°06'59.64522"N	105°09'35.58954"W	5008.68	-0°06'10.9"	14569221.252	1595716.667	9033	578697.100	596754.525	5062.50	Heavy Hinge nail
9041	40°06'06.52527"N	105°11'25.46484"W	5080.78	-0°07'21.5"	14563864.864	1587172.297	9041	573337.227	588204.597	5133.91	No. 5 Rebar
9046	40°05'39.26955"N	105°10'09.50846"W	5055.43	-0°06'32.6"	14561095.966	1593067.062	9046	570566.528	594103.196	5109.12	No. 5 Rebar
9058	40°04'08.76045"N	105°15'48.52173"W	5441.09	-0°10'10.6"	14553951.476	1566709.479	9058	563417.392	567728.470	5492.19	10" spike
9060	40°04'17.72486"N	105°12'32.34345"W	5100.71	-0°08'04.3"	14552871.175	1581951.561	9060	562336.388	582980.466	5153.45	CDOT Type II monument, "9060"
9062	40°04'05.12909"N	105°14'06.64166"W	5195.56	-0°09'05.0"	14551615.378	1574620.212	9062	561079.775	575644.348	5247.55	No. 5 Rebar
9067	40°03'39.73103"N	105°12'31.75086"W	5138.36	-0°08'03.8"	14549027.938	1581988.596	9067	558490.652	583017.524	5191.13	PK nail
9073	40°02'55.79346"N	105°14'07.25762"W	5236.52	-0°09'05.2"	14544602.117	1574553.803	9073	554061.952	575577.896	5288.54	CDOT Type II monument, "9073"
9077	40°02'27.85014"N	105°17'29.10412"W	5532.43	-0°11'14.9"	14541822.031	1558853.686	9077	551280.057	559867.568	5582.71	No. 5 Rebar
9093	40°01'26.68243"N	105°15'29.62122"W	5234.57	-0°09'57.9"	14535606.198	1568125.002	9093	545060.182	569144.914	5285.94	CDOT Type II monument, "9093"
9100	40°01'08.76704"N	105°08'29.63434"W	5195.36	-0°05'27.7"	14533720.766	1600782.270	9100	543173.524	601823.422	5249.80	PK nail
9116	40°00'54.50868"N	105°18'49.72537"W	5584.36	-0°12'06.4"	14532401.757	1552552.487	9116	541853.657	553562.270	5633.85	10" spike
9117	40°00'52.95998"N	105°12'57.06247"W	5182.80	-0°08'19.6"	14532163.588	1579980.427	9117	541615.333	581008.049	5235.44	CDOT Type II monument, "9117"
9143	39°59'58.81001"N	105°15'27.06198"W	5318.53	-0°09'55.9"	14526717.283	1568298.336	9143	536165.486	569318.360	5369.91	CDOT Type II monument, "9143"
9147	39°59'44.13565"N	105°16'55.53824"W	5747.66	-0°10'52.7"	14525253.800	1561410.853	9147	534701.051	562426.397	5798.20	PK nail
9154	39°59'24.29873"N	105°08'03.52925"W	5323.66	-0°05'10.7"	14523150.628	1602796.546	9154	532596.511	603839.008	5378.19	CDOT Type II monument, "9154"
9157	39°59'12.39169"N	105°04'19.49800"W	5098.86	-0°02'46.8"	14521926.056	1620225.922	9157	531371.142	621279.720	5154.48	3" Aluminum Cap
9173	39°58'24.07633"N	105°12'17.56197"W	5403.85	-0°07'53.8"	14517096.736	1583017.980	9173	526538.682	584047.579	5456.71	CDOT Type II monument, "9173"
9192	39°57'28.26276"N	105°05'26.32354"W	5169.80	-0°03'29.6"	14511398.196	1615015.726	9192	520836.435	616066.135	5224.95	1.5" Aluminum Cap
9197	39°57'16.62761"N	105°11'55.65087"W	5591.07	-0°07'39.6"	14510270.466	1584707.948	9197	519707.972	585738.645	5643.98	No. 5 Rebar
9204	39°56'49.59751"N	105°08'58.35586"W	5426.01	-0°05'45.7"	14507509.449	1598504.624	9204	516945.159	599544.294	5479.99	CDOT Type II monument, "9204"
9235	39°55'00.01518"N	105°07'24.12863"W	5512.95	-0°04'45.0"	14496414.092	1605825.079	9235	505842.586	606869.511	5567.24	PK nail
9244	39°54'17.86592"N	105°05'10.82319"W	5351.05	-0°03'19.4"	14492138.562	1616203.642	9244	501564.274	617254.824	5405.94	CDOT Type II monument, "9244"
9249	39°53'47.39482"N	105°03'25.63612"W	5223.56	-0°02'11.9"	14489049.879	1624395.710	9249	498473.582	625452.220	5278.92	PK nail
9268	39°52'30.50779"N	105°05'31.27320"W	5298.72	-0°03'32.4"	14481281.070	1614599.408	9268	490699.721	615649.546	5353.36	CDOT Type II monument, "9268"
9274	39°52'10.58409"N	105°05'51.03709"W	5361.15	-0°03'45.0"	14479267.462	1613056.940	9274	488684.803	614106.076	5415.67	No. 5 Rebar
9280	39°51'48.58413"N	105°02'14.46060"W	5453.23	-0°01'26.2"	14477029.480	1629935.918	9280	486445.366	630996.032	5508.77	PK nail
9286	39°51'31.06355"N	105°04'09.56268"W	5395.37	-0°02'39.9"	14475262.667	1620962.727	9286	484677.404	622017.004	5450.35	CDOT Type II monument, "9286"
9297	39°50'40.57857"N	105°00'33.79790"W	5330.06	-0°00'21.7"	14470148.833	1637781.513	9297	479560.243	638846.729	5385.98	PK nail
9310	39°50'04.77149"N	105°02'31.26122"W	5295.82	-0°01'36.9"	14466529.675	1628621.433	9310	475938.732	629680.692	5351.19	CDOT Type II monument, "9310"
9321	39°49'41.01844"N	104°57'21.91322"W	5052.60	0°01'41.3"	14464127.377	1652745.332	9321	473534.871	653820.281	5109.25	Recovered 1.5" plastic cap
9323	39°49'40.47488"N	104°58'55.03275"W	5102.78	0°00'41.6"	14464069.883	1645483.258	9323	473477.339	646553.484	5159.06	CDOT Type II monument, "9323"
9335	39°48'58.92420"N	105°03'40.55861"W	5324.57	-0°02'21.2"	14459872.535	1623213.114	9335	469277.261	624268.855	5379.54	PK nail
9343	39°48'09.54134"N	105°00'48.23454"W	5178.73	-0°00'30.9"	14454872.010	1636653.629	9343	464273.484	637718.112	5234.47	No. 5 Rebar
9349	39°47'20.25390"N	104°58'26.09580"W	5085.04	0°01'00.1"	14449887.541	1647744.094	9349	459285.774	648815.791	5141.32	PK nail IN 2.5" washer
9354	39°46'50.16666"N	104°59'49.09480"W	5171.13	0°00'07.0"	14446843.273	1641267.712	9354	456239.525	642335.196	5227.04	CDOT Type II monument, "9354"
9369	39°44'18.10186"N	104°58'52.47056"W	5234.41	0°00'43.2"	14431463.079	1645689.906	9369	440849.328	646760.266	5290.42	No. 5 Rebar
9370	39°44'18.43741"N	105°00'57.60340"W	5139.09	-0°00'36.8"	14431496.867	1635918.537	9370	440883.139	636982.542	5194.56	PK nail



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Sheet Revisions

mm/yy	xxxxx	xxx

REGION 6
PRELIMINARY PLANS
SEP 03 2009
SUBJECT TO CHANGES

Land Survey Control Diagram

Tabulation Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset	Sheet No.
14133	07-17-2008	17 of 24	3.17

Low Flight Panel Points - Fast Static GPS Control (points set unless noted otherwise) (Elevations GPS derived, Geoid 1999)

Name	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (UTM 13N)	Easting (UTM 13N)	Name	Northing (Project)	Easting (Project)	Elevation NAVD'88	DESCRIPTION
407	39°50'18.96145"N	105°02'03.95032"W	5348.13	-0°01'19.4"	14467964.041	1630751.669	407	477374.030	31812.313	5403.73	Recover CDOT Type I monument,, no stamping, benchmark "4.079037"
617	39°52'57.34375"N	105°05'45.09043"W	5356.56	-0°03'41.3"	14483996.606	1613525.495	617	493417.023	14574.935	5411.45	Recover CDOT Type II monument, "CP 617"
4569	40°02'50.72487"N	105°14'19.21375"W	5235.21	-0°09'12.8"	14544091.897	1573622.999	4569	553551.401	574646.486	5287.38	Recover CDOT Type II monument, "CDOT MILE POST 45.69"
4597	40°03'01.91846"N	105°14'06.96352"W	5231.88	-0°09'05.0"	14545221.607	1574578.301	4597	554681.845	575602.410	5284.15	Recover CDOT Type II monument, "CDOT MILE POST 45.97"
4611	40°03'07.03136"N	105°14'01.44925"W	5226.42	-0°09'01.5"	14545737.654	1575008.309	4611	555198.228	576032.698	5278.73	Recover CDOT Type II monument, "CDOT MILE POST 46.11"
4654	40°03'22.75558"N	105°13'40.36918"W	5194.38	-0°08'47.9"	14547323.931	1576650.998	4654	556785.536	577676.455	5246.84	Recover CDOT Type II monument, "CDOT MILE POST 46.54"
4895	40°04'57.14662"N	105°11'54.09374"W	5101.41	-0°07'39.8"	14556851.946	1584932.861	4895	566319.748	585963.705	5154.56	Recover CDOT Type II monument, "CDOH MILE POST 48.95"
4931	40°05'15.22098"N	105°11'33.34438"W	5104.00	-0°07'26.5"	14558676.657	1586549.008	4931	568145.646	587580.902	5157.42	Recover CDOT Type II monument, "CM-MP 49.31"
5005	40°05'40.63942"N	105°11'06.72291"W	5080.66	-0°07'09.4"	14561243.386	1588622.650	5005	570714.044	589655.893	5134.20	Recover CDOT Type II monument, "CDOT MILE POST 50.05"
9003	40°09'50.15314"N	105°05'41.32632"W	4896.80	-0°03'40.1"	14586442.515	1613927.836	9003	595929.563	614977.538	4952.74	PK nail in asphalt
9004	40°09'45.79445"N	105°06'36.78256"W	4920.46	-0°04'15.9"	14586006.588	1609623.574	9004	595493.352	610670.476	4975.95	PK nail in asphalt
9006	40°09'37.00884"N	105°06'04.57477"W	4891.86	-0°03'55.1"	14585114.921	1612122.110	9006	594601.106	613170.638	4947.67	2" Aluminum Cap "9006"
9008	40°09'26.94855"N	105°06'19.10219"W	4894.39	-0°04'04.5"	14584098.605	1610993.434	9008	593584.128	612041.228	4950.13	PK nail in asphalt
9009	40°09'28.03829"N	105°05'36.48250"W	4881.58	-0°03'37.0"	14584205.134	1614301.390	9009	593690.727	615351.335	4937.63	No. 5 Rebar
9010	40°09'22.69767"N	105°06'46.15855"W	4902.39	-0°04'21.9"	14583671.193	1608892.964	9010	593156.439	609939.392	4957.94	CDOT Type II monument, "9010"
9011	40°09'13.52358"N	105°07'16.79264"W	4919.50	-0°04'41.7"	14582746.341	1606514.054	9011	592230.985	607558.934	4974.84	PK nail
9014	40°09'08.40248"N	105°07'01.05469"W	4917.27	-0°04'31.5"	14582226.689	1607734.908	9014	591710.995	608780.582	4972.77	PK nail in concrete
9015	40°09'00.07616"N	105°07'11.06658"W	4920.70	-0°04'37.9"	14581385.487	1606961.319	9015	590869.247	608006.490	4976.18	CDOT Type II monument, "9015"
9016	40°08'55.31727"N	105°06'55.17156"W	4916.82	-0°04'27.7"	14580902.487	1608189.832	9016	590385.932	609235.802	4972.45	PK nail in asphalt
9018	40°08'42.45028"N	105°07'50.13139"W	4942.50	-0°05'03.1"	14579606.858	1603921.774	9018	589089.461	604964.968	4997.79	Maltese Cross in bike path
9019	40°08'32.02979"N	105°07'39.01965"W	4949.18	-0°04'55.9"	14578551.546	1604782.833	9019	588033.462	605826.587	5004.61	CDOT Type II monument, "9019"
9020	40°08'26.57112"N	105°07'29.31275"W	4955.91	-0°04'49.7"	14577998.317	1605535.608	9020	587479.873	606579.852	5011.44	PK nail
9021	40°08'23.84500"N	105°07'54.02273"W	4964.29	-0°05'05.6"	14577725.331	1603616.913	9021	587206.709	604659.909	5019.67	PK nail in asphalt
9022	40°08'18.84085"N	105°08'17.24648"W	4970.69	-0°05'20.5"	14577221.885	1601813.199	9022	586702.936	602855.022	5025.92	No. 5 Rebar in grassy area
9023	40°08'10.28763"N	105°08'06.26161"W	4961.37	-0°05'13.4"	14576355.394	1602664.689	9023	585835.882	603707.065	5016.75	CDOT Type II monument, "9023"
9025	40°07'59.88696"N	105°08'17.13261"W	4951.54	-0°05'20.4"	14575304.637	1601819.061	9025	584784.441	602860.887	5006.88	CDOT Type II monument, "9025"
9026	40°07'48.96037"N	105°08'17.96023"W	4954.46	-0°05'20.9"	14574199.486	1601753.084	9026	583678.571	602794.867	5009.83	6" SPIKE
9027	40°07'46.10304"N	105°08'29.11678"W	4959.66	-0°05'28.1"	14573911.822	1600886.386	9027	583390.721	601927.605	5014.95	CDOT Type II monument, "9027"
9029	40°07'32.81876"N	105°08'42.88811"W	4964.49	-0°05'37.0"	14572569.809	1599814.917	9029	582047.834	600855.440	5020.70	CDOT Type II monument, "9029"
9032	40°07'08.48503"N	105°09'21.53743"W	4990.99	-0°06'01.8"	14570113.480	1596809.516	9032	579589.908	597848.084	5046.37	CDOT Type II monument, "9032"
9036	40°06'47.97028"N	105°09'49.55399"W	5009.53	-0°06'19.9"	14568042.280	1594630.019	9036	577517.361	595667.170	5064.00	CDOT Type II monument, "9036"
9037	40°06'34.57201"N	105°10'04.29731"W	5027.38	-0°06'29.3"	14566689.151	1593482.447	9037	576163.351	594518.851	5081.34	CDOT Type II monument, "9037"
9040	40°06'21.58672"N	105°10'19.72938"W	5037.83	-0°06'39.2"	14565377.953	1592281.335	9040	574851.301	593316.958	5091.44	CDOT Type II monument, "9040"
9042	40°06'07.64080"N	105°10'37.34162"W	5053.42	-0°06'50.5"	14563969.980	1590910.557	9042	573442.412	591945.288	5106.60	PK nail
9045	40°05'53.81812"N	105°10'49.19183"W	5066.17	-0°06'58.1"	14562573.639	1589987.246	9045	572045.163	591021.377	5118.91	CDOT Type II monument, "9045"
9047	40°05'39.89179"N	105°11'04.23808"W	5082.23	-0°07'07.8"	14561167.361	1588815.526	9047	570637.970	589848.894	5135.79	PK nail
9050	40°05'26.76888"N	105°11'17.99828"W	5094.44	-0°07'16.6"	14559842.195	1587743.758	9050	569311.942	588776.429	5147.96	CDOT Type II monument, "9050"
9052	40°05'12.31272"N	105°11'32.31614"W	5102.87	-0°07'25.8"	14558382.308	1586628.258	9052	567851.106	587660.204	5156.29	CDOT Type II monument, "9052"
9054	40°04'59.37337"N	105°11'49.31931"W	5110.99	-0°07'36.7"	14557076.361	1585304.325	9054	566544.310	586335.410	5164.18	CDOT Type I monument, "9054"
9055	40°04'44.24786"N	105°12'01.36712"W	5084.38	-0°07'44.4"	14555548.481	1584364.794	9055	565015.436	585395.268	5137.48	2" Aluminum Cap "9055"
9057	40°04'33.12402"N	105°12'20.32915"W	5116.61	-0°07'56.6"	14554426.649	1582888.800	9057	563892.874	583918.314	5169.59	CDOT Type II monument, "9057"
9063	40°04'03.90319"N	105°12'49.59539"W	5127.43	-0°08'15.4"	14551476.277	1580607.542	9063	560940.583	581635.573	5180.20	PK nail
9065	40°03'50.22152"N	105°13'04.98271"W	5151.15	-0°08'25.2"	14550095.257	1579408.326	9065	559558.665	580435.576	5203.82	CDOT Type II monument, "9065"
9068	40°03'35.96519"N	105°13'20.62905"W	5172.95	-0°08'35.3"	14548656.219	1578188.698	9068	558118.691	579215.155	5225.54	CDOT Type II monument, "9068"
9069	40°03'22.62150"N	105°13'37.19069"W	5192.14	-0°08'45.9"	14547309.736	1576898.021	9069	556771.333	577923.639	5244.62	CDOT Type II monument, "9069"
9071	40°03'09.28836"N	105°13'54.40678"W	5219.64	-0°08'56.9"	14545964.521	1575556.336	9071	555425.242	576581.081	5272.00	CDOT Type II monument, "9071"
9078	40°02'26.25763"N	105°14'30.01943"W	5243.91	-0°09'19.7"	14541619.276	1572776.269	9078	551077.171	573799.206	5296.00	CDOT Type II monument, "9078"
9079	40°02'24.32683"N	105°15'39.58381"W	5295.75	-0°10'04.5"	14541439.236	1567367.348	9079	550897.014	568386.767	5347.25	PK nail in asphalt
9080	40°02'17.16351"N	105°14'46.71811"W	5258.41	-0°09'30.4"	14540702.954	1571475.470	9080	550160.253	572497.561	5310.36	2" Aluminum Cap "9080"
9081	40°02'16.90904"N	105°15'09.85112"W	5266.97	-0°09'45.3"	14540682.253	1569676.833	9081	550139.539	570697.754	5318.72	2" Aluminum Cap "9081"
9082	40°02'10.82756"N	105°15'31.22522"W	5275.83	-0°09'59.0"	14540071.876	1568013.234	9082	549528.765	569033.073	5327.40	PK nail in concrete island
9083	40°02'12.14796"N	105°14'37.63961"W	5239.11	-0°09'24.6"	14540193.684	1572179.924	9083	549650.652	573202.473	5291.13	2" Aluminum Cap "9083"
9084	40°02'09.24487"N	105°14'23.96047"W	5225.83	-0°09'15.8"	14539897.146	1573242.691	9084	549353.921	574265.931	5277.96	PK nail



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Sheet Revisions

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REGION 6
PRELIMINARY PLANS
SEP 03 2009
SUBJECT TO CHANGES

Land Survey Control Diagram

Tabulation Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset	Sheet No.
14133	07-17-2008	18 of 24	3.18

Low Flight Panel Points - Fast Static GPS Control (points set unless noted otherwise) (Elevations GPS derived, Geoid 1999)

Name	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (UTM 13N)	Easting (UTM 13N)	Name	Northing (Project)	Easting (Project)	Elevation NAVD'88	DESCRIPTION
9085	40°02'01.79110"N	105°15'30.38447"W	5263.42	-0°09'58.5"	14539157.640	1568075.951	9085	548613.934	569095.830	5315.00	PK nail
9086	40°01'59.08558"N	105°15'01.56963"W	5238.00	-0°09'39.9"	14538877.575	1570315.641	9086	548333.687	571336.978	5289.83	PK nail
9087	40°01'57.37143"N	105°14'46.04677"W	5233.99	-0°09'29.9"	14538700.823	1571522.134	9087	548156.820	572544.255	5285.95	PK nail
9088	40°01'45.14058"N	105°15'02.04968"W	5222.06	-0°09'40.2"	14537467.132	1570274.347	9088	546922.327	571295.657	5273.88	PK nail
9089	40°01'41.79925"N	105°15'30.24282"W	5242.90	-0°09'58.3"	14537135.416	1568081.099	9089	546590.394	569100.982	5294.48	PK nail
9090	40°01'39.47249"N	105°14'57.03390"W	5215.38	-0°09'36.9"	14536892.706	1570662.765	9090	546347.527	571684.327	5267.25	CDOT Type II monument, "9090"
9091	40°01'39.47688"N	105°15'42.85847"W	5249.99	-0°10'06.4"	14536903.371	1567099.416	9091	546358.199	568118.660	5301.46	PK nail
9092	40°01'27.24539"N	105°14'50.83137"W	5204.61	-0°09'32.9"	14535654.581	1571141.643	9092	545108.596	572163.516	5256.53	PK nail in asphalt
9094	40°01'24.45000"N	105°15'01.40931"W	5213.48	-0°09'39.7"	14535374.124	1570318.259	9094	544827.957	571339.597	5265.30	CDOT Type II monument, "9094"
9097	40°01'15.48797"N	105°14'41.17803"W	5227.10	-0°09'26.7"	14534463.237	1571889.063	9097	543916.478	572911.423	5279.08	CDOT Type II monument, "9097"
9102	40°01'08.12630"N	105°15'31.07906"W	5233.78	-0°09'58.7"	14533729.562	1568006.185	9102	543182.326	569026.019	5285.35	PK nail
9105	40°01'05.37026"N	105°14'59.13420"W	5208.94	-0°09'38.2"	14533443.699	1570489.774	9105	542896.277	571511.223	5260.78	CDOT Type II monument, "9105"
9118	40°00'51.32570"N	105°15'47.21132"W	5249.43	-0°10'09.0"	14532033.845	1566746.552	9118	541485.506	567765.567	5300.84	PK nail in concrete median
9119	40°00'53.44533"N	105°15'29.19081"W	5232.76	-0°09'57.5"	14532244.148	1568148.734	9119	541695.945	569168.661	5284.33	PK nail in concrete sidewalk
9121	40°00'47.85013"N	105°15'02.18285"W	5212.02	-0°09'40.1"	14531672.194	1570247.692	9121	541123.619	571268.984	5263.82	PK nail
9122	40°00'51.96311"N	105°14'40.09220"W	5200.63	-0°09'25.9"	14532083.451	1571966.977	9122	541535.144	572989.388	5252.61	No. 5 Rebar
9127	40°00'31.68271"N	105°15'32.45138"W	5272.62	-0°09'59.5"	14530043.583	1567888.744	9127	539493.949	568908.502	5324.15	No. 5 Rebar
9129	40°00'27.18254"N	105°14'59.33767"W	5226.92	-0°09'38.2"	14529581.036	1570463.121	9129	539031.101	571484.554	5278.73	PK nail in asphalt
9135	40°00'15.35547"N	105°15'32.74852"W	5313.05	-0°09'59.6"	14528392.144	1567860.831	9135	537841.436	568880.571	5364.55	1.5" Alum. Cap "CDOH 9135"
9137	40°00'13.43389"N	105°15'01.17209"W	5247.95	-0°09'39.3"	14528190.756	1570316.528	9137	537639.917	571337.865	5299.73	PK nail in asphalt
9141	40°00'00.12491"N	105°14'47.51617"W	5267.59	-0°09'30.5"	14526841.587	1571375.069	9141	536289.871	572397.094	5319.41	PK nail in asphalt
9142	40°00'00.75466"N	105°15'46.10940"W	5338.59	-0°10'08.2"	14526918.310	1566817.170	9142	536366.643	567836.231	5389.87	PK nail
9145	39°59'55.98404"N	105°15'01.90607"W	5281.17	-0°09'39.7"	14526425.858	1570254.472	9145	535873.871	571275.769	5332.85	PK nail
9146	39°59'49.67333"N	105°15'12.80081"W	5306.03	-0°09'46.7"	14525789.925	1569405.118	9146	535237.524	570425.863	5357.60	CDOT Type II monument, "9146"
9149	39°59'40.19732"N	105°14'54.42519"W	5300.99	-0°09'34.9"	14524827.399	1570831.984	9149	534274.373	571853.656	5352.72	CDOT Type II monument, "9149"
9152	39°59'35.27122"N	105°14'18.00591"W	5281.25	-0°09'11.4"	14524321.387	1573664.010	9152	533768.032	574687.524	5333.29	PK nail in asphalt
9153	39°59'28.10344"N	105°14'35.47321"W	5310.32	-0°09'22.6"	14523600.035	1572303.079	9153	533046.211	573325.708	5362.20	CDOT Type II monument, "9153"
9155	39°59'25.77360"N	105°14'50.97319"W	5325.05	-0°09'32.6"	14523367.690	1571096.493	9155	532813.714	572118.338	5376.81	PK nail in asphalt
9156	39°59'18.12132"N	105°14'15.26410"W	5306.68	-0°09'09.6"	14522586.104	1573872.699	9156	532031.620	574896.349	5358.73	CDOT Type II monument, "9156"
9160	39°59'09.12754"N	105°13'28.88207"W	5292.11	-0°08'39.8"	14521667.028	1577479.172	9160	531111.946	578505.168	5344.51	PK nail in median
9161	39°59'09.39920"N	105°14'01.09533"W	5295.89	-0°09'00.5"	14521700.948	1574972.793	9161	531145.888	575997.158	5348.04	CDOT Type II monument, "9161"
9162	39°59'05.25606"N	105°14'14.24976"W	5315.36	-0°09'08.9"	14521284.573	1573948.157	9162	530729.242	574971.856	5367.40	PK nail
9164	39°59'02.19960"N	105°13'42.74876"W	5302.88	-0°08'48.7"	14520969.009	1576398.435	9164	530413.473	577423.728	5355.17	CDOT Type II monument, "9164"
9166	39°58'49.97972"N	105°13'19.00723"W	5316.78	-0°08'33.4"	14519728.302	1578242.693	9166	529171.960	579269.186	5369.24	CDOT Type II monument, "9166"
9167	39°58'49.22301"N	105°12'45.96374"W	5328.06	-0°08'12.2"	14519645.493	1580813.760	9167	529089.097	581841.924	5380.78	10" spike
9168	39°58'39.68944"N	105°13'23.70212"W	5316.99	-0°08'36.4"	14518688.354	1577874.758	9168	528131.334	578901.011	5369.42	10" spike
9169	39°58'41.67988"N	105°12'57.47180"W	5338.03	-0°08'19.5"	14518884.659	1579916.420	9169	528327.767	580944.001	5390.66	CDOT Type II monument, "9169"
9171	39°58'31.89187"N	105°12'40.42337"W	5363.09	-0°08'08.5"	14517891.426	1581240.728	9171	527333.889	582269.170	5415.85	CDOT Type II monument, "9171"
9172	39°58'30.41905"N	105°12'00.25211"W	5405.76	-0°07'42.7"	14517735.242	1584366.512	9172	527177.603	585396.988	5458.81	10" spike
9175	39°58'24.27766"N	105°12'46.29894"W	5395.39	-0°08'12.3"	14517122.338	1580781.654	9175	526564.300	581809.798	5448.10	PK nail in shoulder
9178	39°58'13.64677"N	105°11'56.36896"W	5503.14	-0°07'40.2"	14516038.054	1584664.914	9178	525479.311	585695.584	5556.20	CDOT Type II monument, "9178"
9179	39°58'09.08857"N	105°11'39.81030"W	5559.30	-0°07'29.5"	14515574.152	1585952.596	9179	525015.107	586984.103	5612.50	CDOT Type II monument, "9179"
9180	39°58'04.98339"N	105°11'04.12906"W	5615.63	-0°07'06.6"	14515153.016	1588728.699	9180	524593.698	589762.012	5669.06	No. 5 Rebar
9182	39°58'02.89799"N	105°11'53.59017"W	5639.45	-0°07'38.4"	14514950.338	1584878.759	9182	524390.887	585909.568	5692.52	10" spike
9183	39°57'58.17956"N	105°11'16.45637"W	5628.34	-0°07'14.5"	14514466.814	1587767.837	9183	523907.049	588800.524	5681.68	CDOT Type II monument, "9183"
9184	39°57'52.31687"N	105°10'56.83819"W	5581.75	-0°07'01.9"	14513870.636	1589293.514	9184	523310.483	590327.194	5635.22	CDOT Type II monument, "9184"
9186	39°57'44.03105"N	105°10'09.15130"W	5446.79	-0°06'31.2"	14513025.213	1593003.502	9186	522464.510	594039.595	5500.57	PK nail
9187	39°57'41.65121"N	105°10'33.20136"W	5495.10	-0°06'46.7"	14512788.114	1591131.094	9187	522227.257	592165.969	5548.71	CDOT Type II monument, "9187"
9188	39°57'41.22097"N	105°10'56.65280"W	5611.81	-0°07'01.8"	14512748.261	1589305.649	9188	522187.378	590339.336	5665.26	60d nail
9189	39°57'34.95089"N	105°10'11.02430"W	5457.74	-0°06'32.4"	14512107.036	1592855.969	9189	521545.736	593891.966	5511.50	CDOT Type II monument, "9189"
9191	39°57'28.74693"N	105°09'27.18727"W	5393.61	-0°06'04.3"	14511473.249	1596267.035	9191	520911.537	597305.250	5447.65	PK nail in median
9195	39°57'25.33924"N	105°09'50.93712"W	5426.40	-0°06'19.5"	14511131.896	1594417.720	9195	520569.962	595454.733	5480.28	CDOT Type II monument, "9195"



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Sheet Revisions

mm/yy	xxxxx	xxx

REGION 6
PRELIMINARY PLANS
SEP 03 2009
SUBJECT TO CHANGES

Land Survey Control Diagram

Tabulation Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset	Sheet No.
14133	07-17-2008	19 of 24	3.19

Low Flight Panel Points - Fast Static GPS Control (points set unless noted otherwise) (Elevations GPS derived, Geoid 1999)

Name	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (UTM 13N)	Easting (UTM 13N)	Name	Northing (Project)	Easting (Project)	Elevation NAVD'88	DESCRIPTION
9196	39°57'18.32676"N	105°09'56.48913"W	5434.53	-0°06'23.1"	14510423.387	1593984.230	9196	519860.992	595020.961	5488.37	PK nail in median
9198	39°57'15.54654"N	105°09'30.53617"W	5402.06	-0°06'06.4"	14510138.499	1596003.986	9198	519575.919	597042.030	5456.07	CDOT Type II monument, "9198"
9200	39°57'00.94326"N	105°09'15.32923"W	5483.42	-0°05'56.6"	14508659.312	1597185.197	9200	518095.770	598224.010	5537.52	CDOT Type II monument, "9200"
9201	39°57'03.04902"N	105°08'49.18363"W	5426.02	-0°05'39.8"	14508868.872	1599220.941	9201	518305.467	600261.078	5480.28	PK nail in asphalt
9203	39°56'56.50380"N	105°09'25.92706"W	5495.07	-0°06'03.4"	14508211.704	1596359.382	9203	517647.871	597397.658	5549.09	10" spike
9207	39°56'40.28123"N	105°08'40.55630"W	5407.02	-0°05'34.2"	14506564.831	1599888.827	9207	515999.926	600929.398	5461.32	CDOT Type II monument, "9207"
9209	39°56'30.99907"N	105°08'00.83008"W	5342.40	-0°05'08.7"	14505621.128	1602980.303	9209	515055.610	604022.884	5396.93	10" spike
9210	39°56'28.22073"N	105°08'25.18732"W	5364.36	-0°05'24.3"	14505343.011	1601083.459	9210	514777.312	602124.807	5418.73	CDOT Type II monument, "9210"
9211	39°56'26.39805"N	105°07'21.87324"W	5283.16	-0°04'43.7"	14505151.382	1606012.757	9211	514585.558	607057.311	5337.92	CDOT Type II monument, "9211"
9212	39°56'21.26654"N	105°08'34.47921"W	5365.02	-0°05'30.3"	14504640.748	1600358.878	9212	514074.592	601399.755	5419.33	10" spike
9213	39°56'18.35963"N	105°08'03.57281"W	5307.32	-0°05'10.4"	14504342.979	1602764.835	9213	513776.630	603807.277	5361.81	CDOT Type II monument, "9213"
9214	39°56'13.39030"N	105°07'06.81571"W	5291.15	-0°04'34.0"	14503834.076	1607183.377	9214	513267.395	608228.693	5346.00	No.5 Rebar
9215	39°56'10.95163"N	105°07'26.59824"W	5294.16	-0°04'46.7"	14503589.500	1605642.700	9215	513022.661	606687.013	5348.89	CDOT Type II monument, "9215"
9216	39°56'08.01307"N	105°07'45.29729"W	5307.56	-0°04'58.7"	14503294.333	1604186.285	9216	512727.302	609229.651	5362.16	CDOT Type II monument, "9216"
9217	39°55'59.57919"N	105°07'13.81516"W	5314.06	-0°04'38.5"	14502437.826	1606636.490	9217	511870.237	607681.450	5368.85	CDOT Type II monument, "9217 2003"
9218	39°55'59.99081"N	105°07'23.62232"W	5324.58	-0°04'44.8"	14502480.503	1605872.887	9218	511912.942	606917.350	5379.31	CDOT Type II monument, "9218 2003"
9219	39°55'55.21283"N	105°07'44.24051"W	5337.48	-0°04'58.0"	14501999.483	1604266.700	9219	511431.610	605310.119	5392.06	PK nail in asphalt
9220	39°55'48.14385"N	105°07'06.51071"W	5353.63	-0°04'33.8"	14501280.392	1607203.736	9220	510712.050	608249.064	5408.45	CDOT Type II monument, "9220"
9221	39°55'47.59400"N	105°06'56.30427"W	5316.86	-0°04'27.2"	14501223.732	1607998.452	9221	510655.354	609044.298	5371.75	CDOT Type II monument, "9221"
9222	39°55'45.23523"N	105°06'24.95388"W	5391.43	-0°04'07.1"	14500982.102	1610439.467	9222	510413.566	611486.900	5446.48	PK nail asphalt
9223	39°55'37.66172"N	105°06'50.66137"W	5313.13	-0°04'23.6"	14500218.528	1608436.589	9223	509649.496	609482.720	5368.04	CDOT Type II monument, "9223"
9224	39°55'36.15026"N	105°06'36.51325"W	5327.97	-0°04'14.5"	14500064.261	1609538.180	9224	509495.129	610585.027	5382.95	CDOT Type II monument, "9224"
9225	39°55'30.67726"N	105°07'06.08986"W	5370.43	-0°04'33.5"	14499513.622	1607234.166	9225	508944.131	608279.514	5425.23	60d nail
9226	39°55'24.26864"N	105°06'20.93273"W	5355.41	-0°04'04.5"	14498860.983	1610750.089	9226	508291.068	611797.724	5410.45	CDOT Type II monument, "9226"
9227	39°55'23.96259"N	105°06'34.16000"W	5336.07	-0°04'13.0"	14498831.268	1609719.928	9227	508261.334	610766.893	5391.03	CDOT Type II monument, "9227"
9228	39°55'21.97049"N	105°05'58.73521"W	5374.88	-0°03'50.2"	14498626.538	1612478.546	9228	508056.471	613527.305	5430.00	CDOT Type II monument, "9228"
9229	39°55'17.20474"N	105°05'21.99738"W	5350.91	-0°03'26.6"	14498141.458	1615339.187	9229	507571.075	616389.807	5406.16	Recovered PK nail W/Tag "LS 28656"
9230	39°55'15.19508"N	105°06'11.73778"W	5390.15	-0°03'58.6"	14497942.364	1611465.120	9230	507371.851	612513.220	5445.20	CDOT Type II monument, "9230"
9231	39°55'14.99010"N	105°06'36.26532"W	5393.70	-0°04'14.3"	14497923.913	1609554.848	9231	507353.389	610601.706	5448.63	PK nail in asphalt
9232	39°55'12.37720"N	105°05'39.68147"W	5362.94	-0°03'38.0"	14497654.576	1613961.417	9232	507083.876	615011.141	5418.09	CDOT Type II monument, "9232"
9233	39°55'05.49337"N	105°05'54.39119"W	5395.24	-0°03'47.4"	14496959.522	1612815.019	9233	506388.370	613863.997	5450.31	CDOT Type II monument, "9233"
9234	39°55'03.97962"N	105°05'19.20471"W	5350.73	-0°03'24.8"	14496803.537	1615555.355	9234	506232.284	616606.115	5405.95	CDOT Type II monument, "9234"
9236	39°54'57.17776"N	105°05'35.21812"W	5406.64	-0°03'35.1"	14496116.808	1614307.430	9236	505545.108	615357.379	5461.76	CDOT Type II monument, "9236"
9239	39°54'50.71101"N	105°05'47.32997"W	5480.98	-0°03'42.9"	14495463.706	1613363.364	9239	504891.582	614412.699	5535.99	No.5 Rebar
9240	39°54'44.69298"N	105°05'22.60195"W	5412.55	-0°03'27.0"	14494852.983	1615288.803	9240	504280.461	616339.390	5467.70	CDOT Type II monument, "9240"
9242	39°54'29.71259"N	105°05'09.34925"W	5366.03	-0°03'18.5"	14493336.725	1616319.614	9242	502763.217	617370.871	5421.26	CDOT Type II monument, "9242"
9245	39°54'13.01885"N	105°05'00.00939"W	5328.41	-0°03'12.5"	14491647.488	1617045.576	9245	501072.881	618097.306	5383.72	CDOT Type II monument, "9245"
9246	39°54'08.27486"N	105°04'40.44545"W	5303.88	-0°02'59.9"	14491166.265	1618569.211	9246	500591.345	619621.932	5359.23	2" Aluminum Cap "CDOT 9246"
9247	39°54'02.35146"N	105°04'19.99009"W	5304.73	-0°02'46.8"	14490565.784	1620162.255	9247	499990.474	621216.012	5360.16	PK nail in median
9248	39°53'57.82327"N	105°04'46.92475"W	5335.77	-0°03'04.0"	14490109.549	1618063.514	9248	499533.942	619115.906	5391.07	CDOT Type II monument, "9248"
9250	39°53'40.97580"N	105°04'32.48151"W	5302.97	-0°02'54.8"	14488404.477	1619187.284	9250	497827.760	620240.407	5358.30	2" Aluminum Cap "CDOT 9250"
9251	39°53'40.74053"N	105°04'39.31796"W	5309.12	-0°02'59.1"	14488381.136	1618654.627	9251	497804.405	619707.403	5364.43	CDOT Type II monument, "9251"
9252	39°53'36.39948"N	105°04'52.43216"W	5299.99	-0°03'07.6"	14487942.955	1617632.483	9252	497365.939	618684.594	5355.23	2" Aluminum Cap "CDOT 9252"
9253	39°53'34.59657"N	105°04'14.95713"W	5275.51	-0°02'43.5"	14487758.110	1620552.120	9253	497180.973	621606.130	5330.91	PK nail
9254	39°53'27.39813"N	105°04'28.00976"W	5314.78	-0°02'51.9"	14487030.826	1619534.540	9254	496453.217	620587.888	5370.11	CDOT Type II monument, "9254"
9255	39°53'26.14961"N	105°04'34.72544"W	5293.85	-0°02'56.2"	14486904.983	1619011.176	9255	496327.292	620064.184	5349.15	2" Aluminum Cap "CDOT 9255"
9256	39°53'15.71614"N	105°04'21.19212"W	5267.11	-0°02'47.5"	14485848.778	1620064.780	9256	495270.399	621118.474	5322.46	CDOT Type II monument, "9256"
9259	39°53'06.40306"N	105°03'54.27990"W	5234.35	-0°02'30.2"	14484905.161	1622161.074	9259	494326.169	623216.131	5289.79	CDOT Type II monument, "9259"



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Sheet Revisions

mm/yy	xxxxx	xxx

REGION 6
PRELIMINARY PLANS
SEP 03 2009
SUBJECT TO CHANGES

Land Survey Control Diagram

Tabulation Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset	Sheet No.
14133	07-17-2008	20 of 24	3.20

Low Flight Panel Points - Fast Static GPS Control (points set unless noted otherwise) (Elevations GPS derived, Geoid 1999)

Name	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (UTM 13N)	Easting (UTM 13N)	Name	Northing (Project)	Easting (Project)	Elevation NAVD'88	Δ1	DESCRIPTION
9260	39°53'00.79558"N	105°04'08.30468"W	5252.61	-0°02'39.2"	14484338.795	1621067.795	9260	493759.435	622122.141	5307.99		CDOT Type II monument, "9260"
9261	39°52'58.97998"N	105°04'23.69134"W	5259.44	-0°02'49.1"	14484156.106	1619868.655	9261	493576.626	620922.221	5314.73		PK nail
9265	39°52'44.58062"N	105°03'56.07933"W	5285.60	-0°02'31.4"	14482697.966	1622019.239	9265	492117.539	623074.203	5340.98		CDOT Type II monument, "9265"
9269	39°52'28.30584"N	105°03'27.13831"W	5320.95	-0°02'12.8"	14481050.252	1624273.524	9269	490468.753	625329.955	5376.41		2" Aluminum Cap "9269"
9270	39°52'28.94166"N	105°03'46.54687"W	5330.62	-0°02'25.2"	14481115.583	1622760.979	9270	490534.126	623816.426	5385.99		CDOT Type II monument, "9270"
9272	39°52'14.34010"N	105°03'52.27856"W	5381.96	-0°02'28.9"	14479638.985	1622313.220	9272	489056.568	623368.376	5437.28		No. 5 Rebar w/punchmark
9273	39°52'11.34297"N	105°03'35.53021"W	5394.05	-0°02'18.2"	14479334.923	1623618.359	9273	488752.308	624674.364	5449.37		CDOT Type II monument, "9273"
9277	39°51'56.49404"N	105°03'26.49726"W	5417.47	-0°02'12.4"	14477832.524	1624321.418	9277	487248.932	625377.880	5472.81		CDOT Type II monument, "9277"
9281	39°51'48.80517"N	105°03'41.24870"W	5420.77	-0°02'21.8"	14477055.577	1623171.095	9281	486471.479	624226.809	5476.02		PK nail
9282	39°51'49.43850"N	105°03'07.80153"W	5428.86	-0°02'00.4"	14477117.980	1625778.224	9282	486533.923	626835.634	5484.27		2" Aluminum Cap "CDOT 9282"
9284	39°51'39.65904"N	105°03'20.53788"W	5424.09	-0°02'08.5"	14476129.409	1624784.856	9284	485544.709	625841.619	5479.43		CDOT Type I monument, "9284"
9287	39°51'24.07353"N	105°03'10.09667"W	5400.01	-0°02'01.8"	14474552.477	1625597.811	9287	483966.752	626655.103	5455.36		CDOT Type II monument, "9287"
9291	39°51'08.61084"N	105°02'43.50040"W	5380.04	-0°01'44.8"	14472987.324	1627670.311	9291	482400.581	628728.951	5435.48		PK nail
9292	39°51'07.53872"N	105°03'00.16913"W	5358.38	-0°01'55.5"	14472879.576	1626370.769	9292	482292.763	624728.564	5413.74		CDOT Type II monument, "9292"
9293	39°51'04.68228"N	105°03'06.29384"W	5353.14	-0°01'59.4"	14472590.926	1625893.123	9293	482003.925	626950.607	5408.47		2" Aluminum Cap "CDOT 9293"
9295	39°50'54.05177"N	105°02'44.33637"W	5356.57	-0°01'45.3"	14471514.744	1627604.387	9295	480927.043	628662.984	5411.98		CDOT Type II monument, "9295"
9296	39°50'49.53443"N	105°02'56.02380"W	5333.33	-0°01'52.8"	14471058.308	1626692.942	9296	480470.310	627750.946	5388.67		2" Aluminum Cap "CDOT 9296"
9298	39°50'40.12678"N	105°02'11.59234"W	5488.46	-0°01'24.3"	14470105.094	1630156.659	9298	479516.476	631216.916	5544.03		2" Aluminum Cap "CDOT 9298"
9299	39°50'39.15091"N	105°02'30.91403"W	5398.71	-0°01'36.7"	14470007.048	1628650.136	9299	479418.366	629709.414	5454.16		CDOT Type II monument, "9299"
9301	39°50'26.20971"N	105°02'16.42368"W	5382.75	-0°01'27.4"	14468697.576	1629779.372	9301	478108.043	630839.384	5438.28		CDOT Type II monument, "9301"
9302	39°50'22.41021"N	105°01'24.06287"W	5331.19	-0°01'53.9"	14468311.868	1633861.975	9302	477722.117	634924.681	5387.13		PK nail
9304	39°50'18.21249"N	105°01'56.09195"W	5349.68	-0°01'14.4"	14467888.057	1631364.396	9304	477297.997	632425.439	5405.34		CDOT Type II monument, "9304"
9305	39°50'17.22408"N	105°02'19.01849"W	5344.46	-0°01'29.1"	14467788.790	1629576.655	9305	477198.665	630636.535	5399.98		PK nail
9307	39°50'12.32072"N	105°01'33.67298"W	5317.86	-0°01'00.0"	14467291.551	1633112.342	9307	476701.103	634174.521	5373.68		CDOT Type II monument, "9307"
9308	39°50'04.06364"N	105°01'12.00606"W	5293.50	-0°00'46.1"	14466455.935	1634801.673	9308	475864.944	635864.952	5349.40		CDOT Type II monument, "9308"
9309	39°50'04.22958"N	105°00'21.97783"W	5253.12	-0°00'14.1"	14466472.151	1638702.849	9309	475881.170	639768.665	5309.20		PK nail in asphalt
9312	39°49'59.81384"N	105°01'21.27432"W	5293.62	-0°00'52.1"	14466026.253	1634078.831	9312	475434.982	635141.639	5349.47		PK nail in asphalt
9313	39°49'59.79960"N	105°00'50.98470"W	5256.78	-0°00'32.7"	14466024.327	1636440.839	9313	475433.055	637505.184	5312.75		Chiseled "X" in conc. shoulder
9314	39°49'51.50116"N	105°00'28.50493"W	5239.98	-0°00'18.3"	14465184.747	1638193.755	9314	474592.929	639259.240	5296.03		CDOT Type II monument, "9314"
9315	39°49'50.47265"N	104°58'56.98392"W	5121.11	0°00'40.4"	14465081.098	1645330.895	9315	474489.213	646401.022	5177.48		3.25" Aluminum Cap w/no stamping
9316	39°49'51.73826"N	104°59'41.18587"W	5163.50	0°00'12.1"	14465208.673	1641883.855	9316	474616.871	642951.740	5219.71		PK nail in asphalt
9317	39°49'47.92670"N	105°00'08.86904"W	5243.02	-0°00'05.7"	14464823.112	1639725.019	9317	474231.058	640791.500	5299.15		CDOT Type II monument, "9217"
9319	39°49'45.49599"N	105°00'39.99073"W	5219.70	-0°00'25.6"	14464577.436	1637297.978	9319	473985.223	638362.880	5275.71		PK nail
9322	39°49'39.04936"N	104°59'43.89796"W	5198.47	0°00'10.3"	14463925.216	1641672.422	9322	473332.579	642740.169	5254.66		CDOT Type II monument, "9322"
9324	39°49'40.75421"N	104°59'20.07000"W	5136.50	0°00'25.6"	14464097.818	1643530.678	9324	473505.293	644599.634	5192.77		CDOT Type II monument, "9324"
9327	39°49'29.07783"N	104°58'56.50862"W	5101.31	0°00'40.7"	14462917.081	1645368.387	9327	472323.788	646438.538	5157.65		CDOT Type II monument, "9327"
9328	39°49'28.87195"N	104°59'48.12551"W	5176.30	0°00'07.6"	14462895.786	1641342.764	9328	472302.480	642410.296	5232.47		PK nail
9407	40°00'20.96437"N	105°14'50.61612"W	5228.71	-0°09'32.5"	14528950.174	1571139.768	9407	538399.829	572161.641	5280.58		PK nail
A700	39°58'59.30417"N	105°14'43.70451"W	5372.66	-0°09'27.8"	14520688.743	1571654.646	A700	530133.025	572676.854	5424.46		PK nail
A701	39°59'15.85748"N	105°13'22.09892"W	5280.45	-0°08'35.4"	14522346.437	1578008.657	A701	531791.796	579034.997	5332.91		PK nail
A702	39°59'34.11469"N	105°13'35.47856"W	5261.65	-0°08'44.1"	14524195.778	1576972.333	A702	533642.341	577997.999	5314.03		10" spike
A703	39°59'41.15527"N	105°14'06.93470"W	5267.48	-0°09'04.3"	14524914.272	1574526.919	A703	534361.303	575550.994	5319.62		No. 5 Rebar
A704	39°57'54.60128"N	105°10'01.41694"W	5433.44	-0°06'26.3"	14514093.252	1593607.507	A704	523533.244	594643.992	5487.29		PK nail
A705	39°57'53.93440"N	105°09'33.34859"W	5400.59	-0°06'08.3"	14514021.802	1595791.988	A705	523461.747	596829.894	5454.61		PK nail
A706	39°56'58.53779"N	105°10'04.84008"W	5450.01	-0°06'28.4"	14508422.961	1593330.399	A706	517859.265	594366.705	5503.77		PK nail
A707	39°55'28.69896"N	105°05'10.26705"W	5319.49	-0°03'19.1"	14499303.186	1616253.880	A707	508733.559	617305.095	5374.82		PK nail
A708	39°55'28.05204"N	105°05'42.48593"W	5356.84	-0°03'39.8"	14499240.298	1613744.687	A708	508670.630	614794.270	5412.04		PK nail
A709	39°54'38.59413"N	105°06'02.77104"W	5507.78	-0°03'52.8"	14494239.429	1612159.286	A709	503666.508	613207.838	5562.69		PK nail in painted median
A710	39°54'36.29968"N	105°05'46.82260"W	5469.93	-0°03'42.5"	14494005.977	1613401.310	A710	503432.905	614450.670	5524.90		PK nail in asphalt



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Sheet Revisions

mm/yy	xxxxx	xxx

**REGION 6
PRELIMINARY PLANS
SEP 03 2009
SUBJECT TO CHANGES**

Land Survey Control Diagram

Tabulation Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset	Sheet No.
14133	06-17-2008	21 of 24	3.21

Low Flight Panel Points - Fast Static GPS Control (points set unless noted otherwise) (Elevations GPS derived, Geoid 1999)

Name	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (UTM 13N)	Easting (UTM 13N)	Name	Northing (Project)	Easting (Project)	Elevation NAVD'88	Δ1	DESCRIPTION
A711	39°53'07.93225"N	105°03'21.61777"W	5285.44	-0°02'09.3"	14485058.112	1624706.274	A711	494479.220	625762.986	5341.01		PK nail
A712	39°53'21.52119"N	105°03'48.81097"W	5221.46	-0°02'26.7"	14486434.026	1622588.313	A712	495856.028	623643.647	5276.95		No. 5 Rebar
A713	39°52'47.89722"N	105°04'52.82100"W	5285.26	-0°03'07.8"	14483037.069	1617597.721	A713	492456.862	618649.810	5340.40		PK nail in asphalt
A714	39°52'42.92867"N	105°04'33.41410"W	5258.66	-0°02'55.3"	14482533.179	1619109.634	A714	491952.644	620162.707	5313.88		No. 5 Rebar w/punchmark
A715	39°53'04.68919"N	105°04'44.15868"W	5269.31	-0°03'02.2"	14484734.939	1618274.258	A715	494155.837	619326.787	5324.52		PK Nail
A716	39°51'44.30357"N	105°02'46.17184"W	5463.31	-0°01'46.5"	14476597.666	1627463.911	A716	486013.271	628522.417	5518.82		PK nail in asphalt
A717	39°52'04.27656"N	105°03'01.53248"W	5394.72	-0°01'56.4"	14478618.536	1626267.720	A717	488035.456	627325.448	5450.25		PK nail in asphalt
A718	39°51'24.98823"N	105°03'48.31518"W	5397.96	-0°02'26.3"	14474646.933	1622618.578	A718	484061.269	623673.933	5453.13		PK nail
A719	39°51'02.03434"N	105°03'35.93880"W	5357.52	-0°02'18.4"	14472324.538	1623581.810	A719	481737.364	624637.791	5412.71		PK nail in asphalt
A720	39°50'46.98052"N	105°01'11.23347"W	5396.03	-0°00'45.6"	14470796.849	1634862.880	A720	480208.681	635926.199	5451.97		PK nail
A721	39°50'49.96519"N	105°01'43.75774"W	5479.47	-0°01'06.5"	14471099.430	1632327.191	A721	480511.459	633388.860	5535.23		PK nail
A722	39°49'37.77295"N	105°01'45.17245"W	5242.07	-0°01'07.4"	14463797.418	1632214.508	A722	473204.698	633276.103	5297.76		PK nail
A723	39°49'37.89901"N	105°01'16.09465"W	5239.88	-0°00'48.7"	14463809.531	1634482.222	A723	473216.818	635545.293	5295.71		PK nail
A724	39°49'17.90191"N	105°00'06.48901"W	5166.66	-0°00'04.2"	14461786.187	1639910.563	A724	471192.158	640977.164	5222.75		PK nail
A725	39°49'20.04223"N	105°00'38.41315"W	5191.13	-0°00'24.6"	14462002.848	1637420.699	A725	471408.960	638485.681	5247.10		PK nail in asphalt
A726	39°50'20.85447"N	105°00'38.22876"W	5296.39	-0°00'24.5"	14468153.831	1637435.811	A726	477563.944	638500.802	5352.42		PK nail in asphalt
A727	39°50'20.48045"N	105°00'06.55057"W	5235.06	-0°00'04.2"	14468115.828	1639905.891	A727	477525.916	640972.489	5291.21		2" Aluminum Cap "A727"
A728	39°50'08.59278"N	104°59'43.51717"W	5205.62	0°00'10.6"	14466913.451	1641701.965	A728	476322.757	642769.732	5261.83		PK nail in asphalt
A729	39°50'09.63296"N	104°58'49.11655"W	5155.66	0°00'45.4"	14467019.238	1645943.995	A729	476428.612	647014.521	5212.07		Recovered nail w/Tag "LS 17666"
A730	39°49'12.95597"N	104°59'44.31176"W	5124.66	0°00'10.0"	14461285.946	1641640.279	A730	470691.592	642708.005	5180.82		PK nail in asphalt
A731	39°49'13.11426"N	104°58'45.45841"W	5127.90	0°00'47.7"	14461302.598	1646230.572	A731	470708.255	647301.283	5184.27		CDOT Type II monument, "A731"
A750	39°48'38.28613"N	105°01'13.82234"W	5151.40	-0°00'47.3"	14457779.829	1634658.052	A750	467183.195	635721.237	5207.17		PK nail in asphalt
A751	39°48'43.44076"N	104°59'15.63288"W	5125.29	0°00'28.4"	14458300.782	1643877.514	A751	467704.486	644946.695	5181.52		No. 5 Rebar w/punchmark
A752	39°48'37.83548"N	105°00'00.87937"W	5124.79	-0°00'00.6"	14457733.587	1640348.070	A752	467136.923	641414.956	5180.84		CDOT Type II monument, "CDOT A752"
A753	39°48'41.72644"N	105°00'34.82190"W	5130.07	-0°00'22.3"	14458127.292	1637700.374	A753	467530.884	638765.537	5186.00		No. 5 Rebar w/punchmark
A754	39°47'52.14023"N	105°01'14.17536"W	5220.18	-0°00'47.5"	14453112.330	1634629.440	A754	462512.660	635692.607	5275.89		PK nail in asphalt
A755	39°48'06.05454"N	104°59'15.64332"W	5169.79	0°00'28.4"	14454519.288	1643877.220	A755	463920.533	644946.401	5225.97		Recovered 1.5" Aluminum Cap "CDOT CP12"
A756	39°47'53.75765"N	105°00'24.57957"W	5199.01	-0°00'15.7"	14453275.334	1638498.960	A756	462675.770	639564.643	5254.91		No. 5 Rebar w/punchmark
A757	39°48'14.46525"N	104°59'53.82621"W	5160.38	0°00'04.0"	14455369.770	1640898.308	A757	464771.568	641965.552	5216.43		CDOT Type II monument, "A757"
A758	39°47'22.10602"N	105°00'39.75377"W	5236.61	-0°00'25.4"	14450074.001	1637314.668	A758	459472.354	638379.581	5292.39		PK nail in asphalt
A759	39°47'43.21762"N	104°59'28.79759"W	5146.99	0°00'20.0"	14452209.290	1642851.193	A759	461609.033	643919.707	5203.07		PK nail in asphalt
A760	39°47'03.20938"N	104°59'27.29639"W	5137.89	0°00'20.9"	14448162.612	1642968.733	A760	457559.722	644037.323	5193.93		No. 5 Rebar w/punchmark
A761	39°46'48.17024"N	105°00'15.14860"W	5187.48	-0°00'09.7"	14446641.356	1639234.455	A761	456037.478	640300.617	5243.32		PK nail in asphalt
A762	39°46'35.72476"N	104°59'27.54337"W	5125.00	0°00'20.8"	14445382.643	1642949.740	A762	454777.946	644018.318	5181.01		PK nail in asphalt
A763	39°46'18.42681"N	105°00'19.37253"W	5202.78	-0°00'12.4"	14443632.940	1638904.635	A763	453027.104	639970.582	5258.57		PK nail in asphalt
A764	39°46'08.94481"N	104°59'13.60710"W	5105.77	0°00'29.7"	14442674.087	1644037.784	A764	452067.628	645107.069	5161.80		Recovered CDOT Type II monument, "CDOH 1.038000"
A765	39°46'00.53682"N	105°00'40.91294"W	5230.16	-0°00'26.2"	14441823.595	1637223.170	A765	451216.582	638288.023	5285.84		PK nail in asphalt
A766	39°45'35.63169"N	104°59'14.24090"W	5126.73	0°00'29.3"	14439304.591	1643988.792	A766	448695.941	645058.045	5182.72		Recovered CDOT Type II monument, "ROW 9966 PLS 29420"
A767	39°46'04.76038"N	104°59'57.89131"W	5134.45	0°00'01.3"	14442250.589	1640581.260	A767	451643.854	641648.297	5190.31		PK nail in asphalt
A768	39°45'42.93597"N	105°00'18.61015"W	5139.68	-0°00'11.9"	14440043.178	1638963.932	A768	449435.008	640029.918	5195.44		Recovered CDOT Type 5 monument, "ROW 3111 LS 25379"
A769	39°45'51.63270"N	104°59'27.31100"W	5117.28	0°00'20.9"	14440922.904	1642968.327	A769	450315.306	644036.917	5173.25		PK nail in asphalt
A770	39°44'54.03109"N	104°59'28.88864"W	5162.71	0°00'19.9"	14435096.728	1642845.741	A770	444485.341	643914.251	5218.61		PK nail
A771	39°44'52.96152"N	105°00'02.95005"W	5144.18	-0°00'01.9"	14434988.430	1640186.335	A771	444376.972	641253.116	5199.93		PK nail in asphalt
A772	39°45'04.18059"N	105°00'44.79798"W	5122.94	-0°00'28.6"	14436123.433	1636919.129	A772	445512.713	637983.784	5178.54		No. 5 Rebar w/punchmark
A773	39°45'26.12844"N	105°00'47.41841"W	5189.33	-0°00'30.3"	14438343.395	1636714.869	A773	447734.119	637779.391	5244.95		PK nail in asphalt
A774	39°45'20.31454"N	104°59'27.76725"W	5151.72	0°00'20.6"	14437755.197	1642933.030	A774	447145.539	644001.597	5207.65		Recovered 1.5" Red Plastic Cap "M&M LS 17488"
A775	39°45'26.42599"N	105°00'02.32130"W	5123.32	-0°00'01.5"	14438373.220	1640235.450	A775	447763.964	641302.263	5179.12		PK nail
A776	39°46'31.72540"N	104°59'57.85446"W	5159.46	0°00'01.4"	14444977.995	1640584.117	A776	454373.035	641651.157	5215.34		PK nail in asphalt
A777	39°47'14.37894"N	105°00'01.93591"W	5175.57	-0°00'01.2"	14449292.243	1640265.602	A777	458690.088	641332.434	5231.49		CDOT Type I monument, "CDOT A777"
A778	39°47'42.84858"N	105°00'02.42909"W	5175.04	-0°00'01.6"	14452171.847	1640227.140	A778	461571.565	641293.947	5230.99		PK nail in asphalt
A779	39°48'23.53751"N	105°00'40.41027"W	5140.74	-0°00'25.9"	14456287.592	1637264.220	A779	465689.987	638329.100	5196.62		PK nail in asphalt



Region 6
Address: 2000 South Holly Street
Denver, CO 80222
Phone: (303) 757-9212 FAX: (303) 757-9053

Right of Way Plans & Survey Unit: Patricia Dickerson, PLS-II

Sheet Revisions

mm/yy	xxxxx	xxx

REGION 6
PRELIMINARY PLANS
SEP 03 2009
SUBJECT TO CHANGES

Land Survey Control Diagram

Tabulation Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
14133	07-17-2008	23 of 24	3.23

Aliquot Points, locations determined by Fast Static GPS Survey (Elevations GPS derived, Geoid 1999)

Name	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (UTM 13N)	Easting (UTM 13N)	Name	Northing (Project)	Easting (Project)	Elevation NAVD'88	Δ1	DESCRIPTION
9501	40°01'45.02088"N	105°15'47.36884"W	5261.084	-0°10'09.3"	14537465.185	1566750.343	9501	546920.378	567769.360	5312.51		2.5" Aluminum Cap, 0.7' below asphalt in "WATER" box
9502	40°01'45.06594"N	105°15'30.30719"W	5246.069	-0°09'58.4"	14537465.859	1568077.052	9502	546921.053	569096.932	5297.64		2" Brass Cap, 1.25' down, in "WATER" box
9503	40°01'45.10854"N	105°15'13.23897"W	5234.855	-0°09'47.4"	14537466.353	1569404.271	9503	546921.547	570425.015	5286.58		2.5" Aluminum Cap in "WATER" box "CITY OF BOULDER CONT___ POINT"
9504	40°01'45.17356"N	105°14'39.09644"W	5210.695	-0°09'25.4"	14537465.511	1572059.175	9504	546920.705	573081.645	5262.71		2.5" Aluminum Cap, with cross, 1.2' below concrete in "LANDMARK" box
9505	40°01'31.89493"N	105°15'30.23895"W	5236.379	-0°09'58.3"	14536133.586	1568078.494	9505	545587.913	569098.375	5287.96		2.5" Brass Cap, 1.0' down, in "WATER" box
9506	40°01'18.83809"N	105°15'47.20575"W	5249.964	-0°10'09.1"	14534816.739	1566755.202	9506	544270.210	567774.223	5301.39		2.5" Aluminum Cap in "LANDMARK" box "T1N R70W S30 S29 LS 24959 1995"
9507	40°01'18.92439"N	105°15'13.19416"W	5217.741	-0°09'47.3"	14534817.797	1569400.214	9507	544271.268	570420.955	5269.46		2.5" Aluminum Cap, with punch mark, 1.4' below asphalt in "WATER" box
9508	40°01'19.00981"N	105°14'39.14776"W	5213.890	-0°09'25.4"	14534819.040	1572047.930	9508	544272.512	573070.393	5265.90		2.5" Aluminum Cap, 0.9' below ground in "LANDMARK" box
9509	40°01'05.74579"N	105°15'30.13726"W	5234.126	-0°09'58.1"	14533488.560	1568078.731	9509	542941.167	569098.613	5285.70		2.5" Aluminum Cap, 0.5' below asphalt in "WATER" box
9510	40°00'52.66148"N	105°15'47.10118"W	5247.787	-0°10'09.0"	14532168.934	1566755.517	9510	541620.682	567774.538	5299.30		2.5" illegible Aluminum Cap, with punch mark, 0.5' below asphalt in Range box
9511	40°00'52.67841"N	105°15'30.13647"W	5233.079	-0°09'58.1"	14532166.786	1568074.960	9511	541618.533	569094.839	5284.64		4" Brass Cap in concrete in "SURVEY" box
9512	40°00'52.69770"N	105°15'13.14880"W	5221.378	-0°09'47.1"	14532164.942	1569396.189	9512	541616.688	570416.928	5273.12		3" Brass Cap, 0.5' below asphalt in "SURVEY" box
9513	40°00'52.73108"N	105°14'39.19926"W	5199.906	-0°09'25.3"	14532160.941	1572036.639	9513	541612.684	573059.095	5251.90		2" pipe without cap, 0.3' below asphalt in "WATER" box
9514	40°00'39.59787"N	105°15'30.09163"W	5239.431	-0°09'58.0"	14530843.672	1568074.611	9514	540294.559	569094.490	5290.98		3.25" Aluminum Cap flush with concrete
9515	40°00'29.69651"N	105°15'50.85212"W	5315.482	-0°10'11.3"	14529846.879	1566456.901	9515	539297.117	567475.728	5366.84		0.5" Rebar, 0.9' down, in Range box with no markings
9516	40°00'26.51789"N	105°15'30.05853"W	5259.989	-0°09'57.9"	14529520.620	1568073.351	9516	538970.646	569093.229	5311.53		2.5" Aluminum Cap, 0.3' down, in "SURVEY" box
9518	40°00'26.54649"N	105°14'39.14206"W	5213.748	-0°09'25.2"	14529512.346	1572033.830	9518	538962.366	573056.284	5265.73		3" Aluminum Cap, illegible 0.7' below asphalt in Range box
9519	40°00'13.41933"N	105°15'30.06366"W	5289.078	-0°09'57.9"	14528195.696	1568069.111	9519	537644.860	569088.986	5340.61		2.5" Aluminum Cap, 0.5' down, in unmarked Range box
9520	40°00'00.31932"N	105°15'47.05838"W	5339.699	-0°10'08.8"	14526874.492	1566743.218	9520	536322.797	567762.231	5391.28		2.5" Aluminum Cap, 0.4' below asphalt in "LANDMARK" box
9522	40°00'00.33196"N	105°15'13.10345"W	5284.825	-0°09'46.9"	14526868.115	1569384.642	9522	536316.416	570405.373	5336.50		2.5" Aluminum Cap, 0.8' below asphalt in "WATER" box
9524	40°00'00.32843"N	105°15'36.55769"W	5313.932	-0°10'02.0"	14526873.016	1567560.090	9524	536321.320	568579.634	5365.39		2.5" illegible Aluminum Cap, 1.2' below median of 27th Way in "LANDMARK" box
9525	40°00'00.34525"N	105°15'02.36084"W	5278.790	-0°09'40.0"	14526867.095	1570220.335	9525	536315.395	571241.609	5330.56		2" Aluminum Cap, 0.6' down, in "LANDMARK" box
9526	40°00'00.38027"N	105°14'28.46624"W	5255.390	-0°09'18.2"	14526863.362	1572857.071	9526	536311.660	573880.060	5307.45		No. 6 rebar 0.3' below lawn
9527	39°59'34.98665"N	105°15'36.62695"W	5370.378	-0°10'02.0"	14524309.705	1567547.220	9527	533756.342	568566.756	5421.81		3.25" Brass Cap in concrete enclosed by 3.3'x3.3' steel fence
9530	39°59'35.36625"N	105°13'54.14037"W	5263.006	-0°08'56.1"	14524326.105	1575520.770	9530	533772.753	576545.492	5315.30		2.5" Aluminum Cap, 0.2' down, in "WATER" box
9531	39°59'09.04967"N	105°14'28.38135"W	5337.017	-0°09'18.0"	14521671.247	1572849.626	9531	531116.168	573872.611	5388.99		2.5" Aluminum Cap, 10" below asphalt surface in "WATER" box
9532	39°59'09.22805"N	105°13'54.30279"W	5308.781	-0°08'56.1"	14521682.257	1575501.261	9532	531127.185	576525.971	5361.08		2" Brass Cap in concrete cylinder in corrugated metal
9533	39°59'09.41773"N	105°13'20.06000"W	5288.786	-0°08'34.1"	14521694.660	1578165.673	9533	531139.596	579192.115	5341.30		3.25" Aluminum Cap, 0.31' below pavement surface in Range box
9534	39°59'09.73792"N	105°12'46.19003"W	5300.557	-0°08'12.4"	14521720.618	1580801.104	9534	531165.571	581829.260	5353.33		3.25" Aluminum Cap in "Range Point" box "CEI T1S R70W 1/4 S3/S10 1986 LS 23047"
9535	39°58'43.31215"N	105°13'54.24181"W	5313.187	-0°08'56.0"	14519060.852	1575499.193	9535	528504.075	576523.901	5365.41		3.25" Aluminum Cap in collar of stones "T1S R70W C1/4 S9 1996 LS 11372"
9536	39°58'43.42708"N	105°13'20.30659"W	5310.755	-0°08'34.2"	14519065.755	1578139.932	9536	528508.981	579166.357	5363.26		2.5" Aluminum Cap in collar of stones "T1S R70W S9 S10 1/4 1996 RLS 11372"
9538	39°58'43.62898"N	105°12'12.41068"W	5357.792	-0°07'50.6"	14519073.565	1583423.378	9538	528516.796	584453.239	5410.80		2.5" Aluminum Cap, 0.5' S of fence corner, "ZBS INC T1S R70W 1/4 S10/S11 1999 PLS 11434"
9539	39°58'17.39382"N	105°12'46.20565"W	5397.635	-0°08'12.2"	14516426.022	1580787.252	9539	525867.531	581815.399	5450.37		3.25" Aluminum Cap, 0.2' down, in "SURVEY" box
9540	39°58'17.78190"N	105°12'12.46689"W	5431.326	-0°07'50.5"	14516459.148	1583413.039	9540	525900.679	584442.894	5484.31		2.5" Aluminum Cap, 0.3' below ground, "FRANK R. DREXEL SW 1/4 SEC 11 T1S R70W 2140"
9541	39°58'19.09318"N	105°11'38.57526"W	5499.306	-0°07'28.8"	14516585.905	1586050.918	9541	526027.519	587082.488	5552.48		2.5" Brass Cap in concrete, flush w/ground, "RLS 4846 NOV. 1982 SEC 11/SEC 14 1/4"
9542	39°58'20.37996"N	105°11'04.84614"W	5587.279	-0°07'07.1"	14516710.491	1588676.115	9542	526152.174	589709.362	5640.91		2.5" Brass Cap, flush with stone
9543	39°58'20.26248"N	105°10'30.91485"W	5584.976	-0°06'45.3"	14516693.279	1591316.740	9543	526134.962	592351.735	5638.64		3.5" Brass Cap, flush with ground
9544	39°57'54.05772"N	105°11'38.64222"W	5634.535	-0°07'28.8"	14514053.589	1586040.197	9544	523493.555	587071.760	5687.69		2.5" Aluminum Cap, 0.3' above ground, "T1S CEN 14 R70W"
9547	39°57'53.85913"N	105°09'57.22460"W	5431.395	-0°06'23.6"	14514017.574	1593933.663	9547	523457.517	594970.361	5485.15		3.25" Aluminum Cap on 2.5" Aluminum Pipe, bent towards E.
9548	39°57'54.19304"N	105°09'23.01589"W	5393.978	-0°06'01.6"	14514046.540	1596596.245	9548	523486.502	597634.675	5448.05		3.25" Aluminum Cap, in "Range Point" box
9549N	39°57'28.04383"N	105°11'04.84630"W	5598.207	-0°07'07.0"	14511416.712	1588665.142	9549N	520854.963	589698.413	5651.50		2.5" Aluminum Cap on 2" Iron Pipe, 0.6' above ground, "T1S 14 13 / 23 24 R70W"
9549S	39°57'26.82112"N	105°11'04.87983"W	5607.712	-0°07'07.0"	14511293.040	1588662.277	9549S	520731.211	589695.546	5661.00		2.5" Aluminum Cap on No. 6 Rebar "WM. STENGEL T1S R70W AM S23 S13/S24 AM 2001 RLS 4846"
9550	39°57'27.28581"N	105°10'30.92622"W	5497.534	-0°06'45.2"	14511334.713	1591305.327	9550	520772.910	592340.315	5551.13		2.5" Aluminum Cap, damaged, illegible, 0.7' below asphalt in Range box
9551	39°57'27.67594"N	105°09'57.00697"W	5437.343	-0°06'23.4"	14511369.127	1593945.678	9551	520807.347	594982.383	5491.17		3.25" Aluminum Cap
9552	39°57'28.17455"N	105°09'23.21915"W	5390.477	-0°06'01.7"	14511414.810	1596575.810	9552	520853.060	597614.226	5444.52		2.5" Alum Cap, in concrete flush w/ground, illegible
9553	39°57'28.65717"N	105°08'49.06068"W	5361.706	-0°05'39.8"	14511459.105	1599234.779	9553	520897.384	600274.925	5415.96		3.25" Aluminum Cap, 0.1' above ground, "T1S R69W S18 S17/S19 S20 1993 LS 15315"
9554	39°57'01.62087"N	105°09'56.63837"W	5440.235	-0°06'23.1"	14508733.619	1593969.474	9554	518170.125	595006.195	5494.03		3" Alum Cap on 2" Pipe in concrete
9555	39°57'02.01846"N	105°09'23.32475"W	5463.226	-0°06'01.7"	14508769.152	1596562.950	9555	518205.682	597601.358	5517.24		3.25" Aluminum Cap, flush with ground
9556	39°57'02.42015"N	105°08'49.28404"W	5425.981	-0°05'39.9"	14508805.275	1599213.020	9556	518241.828	600253.152	5480.21		2" Aluminum Cap, flush with asphalt, in open, broken Range box
9557	39°56'35.55721"N	105°09'56.71915"W	5632.384	-0°06'23.1"	14506097.311	1593958.289	9557	515532.102	594995.003	5686.14		2.5" Aluminum Cap, 0.2' above ground, "T1S 24 19/25 30 R70W R69W"
9558	39°56'36.09926"N	105°09'23.42957"W	5491.628	-0°06'01.7"	14506147.458	1596550.192	9558	515582.282	597588.591	5545.61		3.25" Aluminum Cap, in "Landmark" box "T1S R69W 1/4 S19/S30 PLS 12405 1991 EMK"
9559	39°56'36.45484"N	105°08'49.32249"W	5407.091	-0°05'39.8"	14506178.909	1599205.699	9559	515613.754	600245.825	5461.29		3.25" Aluminum Cap, in Range box "T1S R69W S19 S20/S30 S29 1995 PLS 13155"



Region 6
Address: 2000 South Holly Street
Denver, CO 80222
Phone: (303) 757-9212 FAX: (303) 757-9053

Right of Way Plans & Survey Unit: Patricia Dickerson, PLS-II

Sheet Revisions

mm/yy	XXXX	XXX

REGION 6
PRELIMINARY PLANS
SEP 03 2009
SUBJECT TO CHANGES

Land Survey Control Diagram

Tabulation Sheet

Project Number: NH 0361-070			
Project Location: US Route 36/Interstate 70			
Counties: Boulder, Broomfield, Jefferson, Adams, Denver			
Project Code:	Last Mod. Date	Subset	Sheet No.
14133	07-17-2008	24 of 24	3.24

Aliquot Points, recovered monuments, locations determined by Fast Static GPS Survey (Elevations GPS derived, Geoid 1999)

Name	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (UTM 13N)	Easting (UTM 13N)	Name	Northing (Project)	Easting (Project)	Elevation NAVD'88	DESCRIPTION
9560	39°56'36.06100"N	105°08'15.36058"W	5391.797	-0°05'18.0"	14506134.856	1601849.780	9560	515569.672	602891.626	5446.18	3.25" Aluminum Cap, flush with ground
9561	39°56'35.81997"N	105°07'41.23039"W	5320.262	-0°04'56.1"	14506106.520	1604506.992	9561	515541.318	605550.566	5374.70	2.5" Aluminum Cap "WESTERN STATES SURVEY INC T1S R69W S20 S21/S29 S28 2003 PLS 35597"
9562	39°56'09.65357"N	105°08'49.21663"W	5379.516	-0°05'39.7"	14503467.971	1599209.475	9562	512901.052	600249.604	5433.52	3.25" Aluminum Cap, flush with concrete walk
9563	39°56'09.93951"N	105°08'15.41590"W	5340.588	-0°05'18.0"	14503492.697	1601841.399	9563	512925.795	602883.239	5394.78	2.5" Aluminum Cap, 0.1' above ground, "D.B.&CO T1D R69W C1/4 S29 2000 PLS 23529"
9564	39°56'09.76050"N	105°07'41.37824"W	5314.279	-0°04'56.2"	14503470.645	1604491.696	9564	512903.728	605535.261	5368.67	2.5" Aluminum Cap, 0.2' below lawn
9565	39°56'09.90904"N	105°07'07.51017"W	5292.069	-0°04'34.4"	14503482.022	1607128.836	9565	512915.112	608174.116	5346.69	3" Aluminum Cap 0.4' below ground, in conc., in Range box
9566	39°55'43.72357"N	105°07'41.56006"W	5341.549	-0°04'56.2"	14500837.056	1604473.755	9566	510268.426	605517.308	5395.92	2.5" Aluminum Cap, 0.2' below asphalt in Range box
9567	39°55'43.49478"N	105°07'07.60498"W	5360.345	-0°04'34.5"	14500810.256	1607117.898	9567	510241.609	608163.171	5414.94	2.5" Aluminum Cap, about 2' below ground
9568	39°55'42.80601"N	105°06'33.75756"W	5399.285	-0°04'12.7"	14500737.220	1609753.605	9568	510168.525	610800.592	5454.11	2.5" Aluminum Cap on 2" pipe in conc. flush with ground
9570	39°55'17.25518"N	105°06'33.87849"W	5368.967	-0°04'12.8"	14498152.794	1609741.020	9570	507582.419	610787.999	5423.76	3.25" Aluminum Cap, flush w/ground, "T1S R69W 1/4 S33 S34 1989 LS 23047"
9571	39°55'17.28202"N	105°05'59.98542"W	5385.097	-0°03'51.0"	14498152.414	1612380.649	9571	507582.038	613429.345	5440.08	2.5" Aluminum Cap, flush w/ground, "COUNTY OF BOULDER NW4 NE4 SW4 SE4 SEC 34"
9572	39°55'17.56279"N	105°05'26.33204"W	5357.373	-0°03'29.4"	14498178.015	1615001.637	9572	507607.656	616052.037	5412.51	2.5" Aluminum Cap on iron rod
9573	39°54'51.31269"N	105°06'33.99315"W	5537.488	-0°04'12.8"	14495528.756	1609728.874	9573	504956.674	610775.845	5592.18	2.5" Aluminum Cap, 1.5' down, in Range box "T1S R69W 33 34" remainder obliterated
9574	39°54'51.36182"N	105°06'00.12742"W	5500.730	-0°03'51.1"	14495530.631	1612366.653	9574	504958.550	613415.339	5555.57	3.25" Aluminum Cap, 0.8' below asphalt, "T1S R69W 1/4 S34/S3 T2S R69W 1996 LS20699".
9575	39°54'51.40402"N	105°05'26.24864"W	5397.641	-0°03'29.3"	14495532.083	1615005.446	9575	504960.003	616055.849	5452.69	2.5" Aluminum Cap, 0.8' below ground "T1S 34 35/3 2 T2S R69W"
9576	39°54'51.45351"N	105°04'52.38406"W	5345.995	-0°03'07.6"	14495534.551	1617643.134	9576	504962.472	618695.252	5401.28	3.5" Aluminum Cap in Range box
9577	39°54'25.17024"N	105°05'26.56939"W	5381.657	-0°03'29.5"	14492878.599	1614977.768	9577	502304.793	616028.153	5436.68	3.25" Aluminum Cap 0.8' above ground "T2S R69W 1/4 S3 S2 1997 LS 13155"
9578	39°54'25.22836"N	105°04'51.85268"W	5326.699	-0°03'07.2"	14492881.877	1617682.114	9578	502308.073	618734.258	5381.98	3.25" Aluminum Cap 0.4' below asphalt in "LANDMARK" box "T2S R69W C 1/4 S2 1999 RLS 1802"
9579	39°53'59.17205"N	105°04'51.87878"W	5344.267	-0°03'07.2"	14490246.323	1617677.689	9579	499670.805	618729.830	5399.55	3.25" Aluminum Cap in "LAND CORNER" box "1/4 S2/S11 1994 PLS 25904"
9580	39°53'59.47534"N	105°04'18.16252"W	5295.409	-0°02'45.6"	14490274.754	1620304.397	9580	499699.254	621358.246	5350.88	3.25" Aluminum Cap in Range box, no lid, illegible except for "+"
9581	39°53'33.13935"N	105°04'52.16020"W	5293.274	-0°03'07.4"	14487613.180	1617653.372	9581	497035.949	618705.497	5348.52	3.25" corroded Aluminum Cap, 0.6' below asphalt in "LAND CORNER" box
9582	39°53'33.20529"N	105°04'18.22145"W	5284.612	-0°02'45.6"	14487617.587	1620297.673	9582	497040.359	621351.517	5339.97	3.25" Aluminum Cap 0.5' below ground at SW cor. concrete footing for corner post
9583	39°53'07.56089"N	105°04'18.55828"W	5263.095	-0°02'45.8"	14485023.723	1620269.344	9583	494444.808	621323.171	5318.51	3.25" Brass Cap 0.05' below concrete
9584	39°53'07.27350"N	105°03'44.81367"W	5244.785	-0°02'24.2"	14484992.678	1622898.764	9584	494413.743	623954.301	5300.26	3.25" Aluminum Cap CDOT "T2S R69W S12/S13 1/4 1989 PLS 23899"
9584W	39°53'07.27159"N	105°03'45.14998"W	5244.237	-0°02'24.4"	14484992.504	1622872.558	9584W	494413.569	623928.078	5299.71	3.25" Aluminum Cap on 2" Aluminum post up 0.2' "BENCHMARK ENG LTD RLS 16401"
9585	39°52'41.66913"N	105°04'19.13327"W	5288.777	-0°02'46.1"	14482404.858	1620222.430	9585	491824.239	621276.226	5344.05	3.25" Aluminum Cap flush with ground
9586	39°52'41.28398"N	105°03'45.14343"W	5298.130	-0°02'24.4"	14482363.907	1622871.229	9586	491783.262	623926.748	5353.56	2.5" Brass Cap in concrete 0.7' below ground
9590	39°52'14.80532"N	105°03'11.28055"W	5369.500	-0°02'02.6"	14479683.938	1625508.573	9590	489101.550	626565.807	5425.24	No. 8 rebar, no cap, 0.4' below asphalt in open range box
9591	39°51'49.71745"N	105°04'19.69301"W	5401.322	-0°02'46.5"	14477150.092	1620174.568	9591	486566.056	621228.333	5456.67	PK Nail w/washer, "WILSON PLS 25361" (monument record shows being set from ties (B) & (C) of prior monument record)
9593	39°51'48.73702"N	105°03'11.29697"W	5426.725	-0°02'02.6"	14477047.187	1625505.725	9593	486463.084	626562.957	5482.23	3.25" Aluminum Cap, ~ 1.2' down, in "WATER" box
9594	39°51'23.12178"N	105°03'45.75677"W	5390.436	-0°02'24.7"	14474458.006	1622817.885	9594	483872.220	623873.369	5445.74	2.5" Aluminum Cap, 0.25' down, in "SURVEY" box
9595	39°51'22.66391"N	105°03'11.49681"W	5398.564	-0°02'02.7"	14474409.963	1625488.579	9595	483824.145	626545.800	5454.03	No. 6 Rebar w/3.25" Aluminum Cap, 0.5' below surface at edge of asphalt.
9596	39°51'22.41443"N	105°02'37.60550"W	5430.908	-0°01'41.0"	14474383.295	1628130.556	9596	483797.459	629189.495	5486.51	No. 6 Rebar w/3.25" Aluminum Cap
9597	39°50'56.51947"N	105°03'11.54015"W	5340.000	-0°02'02.7"	14471765.518	1625483.627	9597	481177.980	626540.845	5395.41	3.25" Aluminum Cap in Range box, 0.5' below asphalt
9598	39°50'57.65155"N	105°02'37.51952"W	5363.046	-0°01'40.9"	14471878.588	1628136.032	9598	481291.123	629194.975	5418.57	W.C. 3.25" Aluminum Cap down 0.8'
9599	39°50'56.60468"N	105°02'03.53775"W	5437.633	-0°01'19.2"	14471771.543	1630785.299	9599	481184.009	631845.966	5493.31	3" Aluminum Cap on 2.5" pipe, 0.3' down, in Range box
9600	39°50'30.40698"N	105°03'11.66926"W	5315.197	-0°02'02.8"	14469124.314	1625471.988	9600	478535.058	626529.199	5370.53	3.25" Aluminum Cap, illegible/broken, 0.8' below asphalt in "RANGE POINT" box
9601	39°50'30.52240"N	105°02'37.42603"W	5356.373	-0°01'40.9"	14469134.541	1628141.980	9601	478545.291	629200.927	5411.86	3.25" Aluminum Cap in "WATER" box
9602	39°50'30.54052"N	105°02'03.45772"W	5401.315	-0°01'19.1"	14469135.218	1630790.528	9602	478545.969	631851.198	5456.94	1" Rebar in Range box, 1.5' below asphalt
9603	39°50'30.42194"N	105°01'29.55939"W	5365.982	-0°00'57.4"	14469122.350	1633433.616	9603	478533.092	634496.004	5421.75	3.25" Aluminum Cap in "TRAFFIC" box
9604	39°50'30.23622"N	105°00'55.64488"W	5328.684	-0°00'35.6"	14469102.968	1636077.967	9604	478513.698	637142.075	5384.59	3" Water Valve handle in broken Range box
9605	39°50'30.36886"N	104°59'47.81218"W	5340.597	0°00'07.8"	14469116.027	1641366.966	9605	478526.766	642434.514	5396.79	3.25" Aluminum Cap 0.3' down, in Range box with no lid.
9606	39°50'04.32588"N	105°02'37.43783"W	5290.952	-0°01'40.9"	14466484.834	1628139.764	9606	475893.861	629198.709	5346.39	3.25" Aluminum Cap in "WATER" box
9607	39°50'04.38172"N	105°02'03.56486"W	5303.128	-0°01'19.2"	14466489.329	1630781.159	9607	475898.360	631841.822	5358.73	3.25" Aluminum Cap in "SURVEY" box
9610	39°50'04.21613"N	105°00'21.97833"W	5252.475	-0°00'14.1"	14466470.790	1638702.809	9610	475879.808	639768.625	5308.50	3.25" Aluminum Cap (CDOT Type 3A Monument) in Aluminum Range box
9612	39°50'04.22448"N	104°59'14.36227"W	5175.377	0°00'29.2"	14466471.829	1643975.470	9612	475880.847	645044.715	5231.67	2" Iron Pipe w/ Alloy Cap, down 0.9', in "RANGE POINT" box
9613	39°50'04.16033"N	104°58'40.50074"W	5108.569	0°00'50.9"	14466465.853	1646615.973	9613	475874.868	647686.936	5164.99	3.25" Aluminum Cap 0.2' below asphalt in Range box
9614	39°49'38.21322"N	105°02'03.66394"W	5240.945	-0°01'19.2"	14463842.463	1630772.416	9614	473249.772	631833.074	5296.52	3.25" Aluminum Cap in Range box
9615	39°49'38.21046"N	105°01'29.80219"W	5251.556	-0°00'57.5"	14463841.309	1633413.212	9615	473248.617	634475.587	5307.27	3.25" Aluminum Cap in "SURVEY" box (broken lid cover)
9616	39°49'38.23820"N	105°00'56.00765"W	5234.977	-0°00'35.9"	14463843.517	1636048.766	9616	473250.827	637112.856	5290.83	3.25" Aluminum Cap 0.32' down, in Range box
9617	39°49'38.24333"N	105°00'22.20501"W	5193.938	-0°00'14.2"	14463843.717	1638684.952	9617	473251.027	639750.756	5249.93	3.25" Aluminum Cap 0.6' down, in Range box
9618	39°49'38.18392"N	104°59'48.36323"W	5201.048	0°00'07.5"	14463837.664	1641324.190	9618	473244.970	642391.711	5257.18	3.25" Aluminum Cap 0.35' down
9619	39°49'38.17477"N	104°59'14.50024"W	5118.361	0°00'29.1"	14463836.973	1643965.083	9619	473244.278	645034.321	5174.63	3.25" Aluminum Cap in "WATER" box
9620	39°49'38.11082"N	104°58'40.66237"W	5093.409	0°00'50.8"	14463831.016	1646604.018	9620	473238.318	647674.973	5149.80	3.25" CDOT Aluminum Cap on Pipe in "Survey" box