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Land Survey Control Diagram

Title Sheet

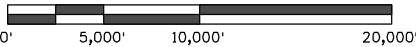
Project Number: NH 093A-008				
Project Location: SH 93, SH 58 to SH 128				
T1, T2, & T3S, R70W/6th PM, Boulder and Jefferson Counties				
Project Code:	Last Mod. Date	Subset	Sheet No.	
16679	04-21-11	1 of 6	3.01	

DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

LAND SURVEY CONTROL DIAGRAM

State Highway 93 MP 3.04 to 11.78
Townships 1, 2, & 3 South, Range 70 West
of the 6th Principle Meridian
Counties of Jefferson & Boulder



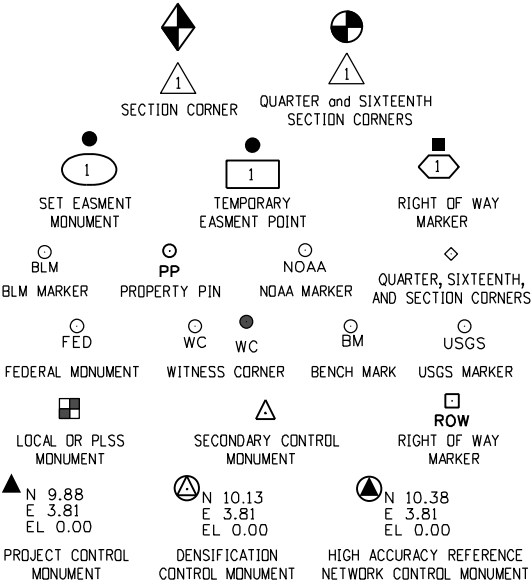
Boulder County T1S, R70W: Sec. 33
Jefferson County T2S, R70W: Sec. 4, 5, 8, 9, 16, 17, 20, 21, 28, & 33
T3S, R70W: Sec. 3, 4, 9, & 10

GENERAL NOTES:

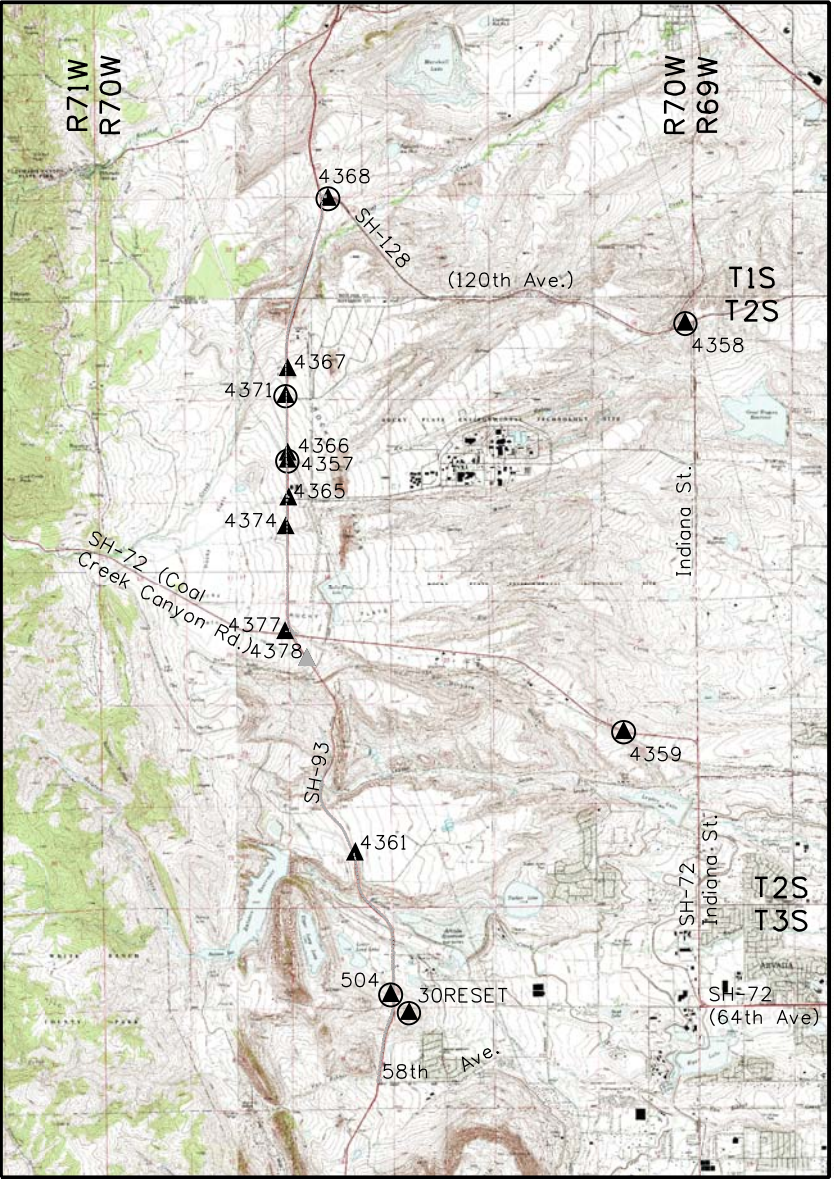
- This **Land Survey Control Diagram** is to document the recovery and/or establishment of survey points that will be the basis of future surveys for design purposes, and/or roadway construction. This Project Control Diagram is not a Monumented Land Survey or a Boundary Survey and does not address matters of title.
- BASIS OF BEARINGS: Bearings are grid bearings of the Colorado state plane coordinate system of 1983, central zone. The line between point 4361, marked by a deep rod in PVC box (NGS PID KK1363 "L 408"), and point 4368, marked by a 3-1/2" brass cap in concrete (NGS PID KK0655 "TT 23J"), shown herein, bears N02°22'38"W, a distance of 34,174.68 feet.
- Geodetic coordinates are NAD'83 (1992) datum based on Fast Static GPS surveys from previous CDOT projects holding published values on the primary control points shown herein. Fast Static utilized included CDOT Project Codes M06037 (MTCE 06-037), 93194 (BR 093-1(016) and FC 093-1(9)), and 14959 (BR 058-006).
- Project specific** coordinates were obtained by multiplying the project's state plane coordinates by 1.0002702855 and then truncating the northing by 1,625,839.820 and the easting by 3,015,244.272. Published units are in US survey feet: 1 survey foot = (1200/3937) meters. These parameters were established in project M06037. Project specific coordinates from the other CDOT projects were then converted to match the M06037 parameters. RTK checks were performed on a sufficient number of monuments to verify the validity of the conversion
- Horizontal Control Tolerances meet the precision requirements of CDOT type A control (+/- 0.07' with 95% certainty).
- Vertical Datum: Elevations are NAVD '88 Datum based on NGS benchmarks. Non-NGS points are based on GPS measurements.

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.

NOTE: This Land Survey Control Diagram should be considered PRELIMINARY AND SUBJECT TO CHANGE, unless it bears the signature and seal of the Professional Land Surveyor in responsible charge.



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



PROJECT LOCATION MAP

SHEET NO.

INDEX OF SHEETS

3.01	(1) Title Sheet
3.02-3.03	(1) Plan Sheets
3.04-3.06	(1) Monument Coordinate Tables
	(4) Total Sheets

Surveyor's Statement (Land Survey Control Diagram):

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

Donald D. Hansen, PLS No. 14599 Date

Jefferson County Depositing Certificate:

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

Reception No. _____.

By: _____

Title: _____



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

Region 6

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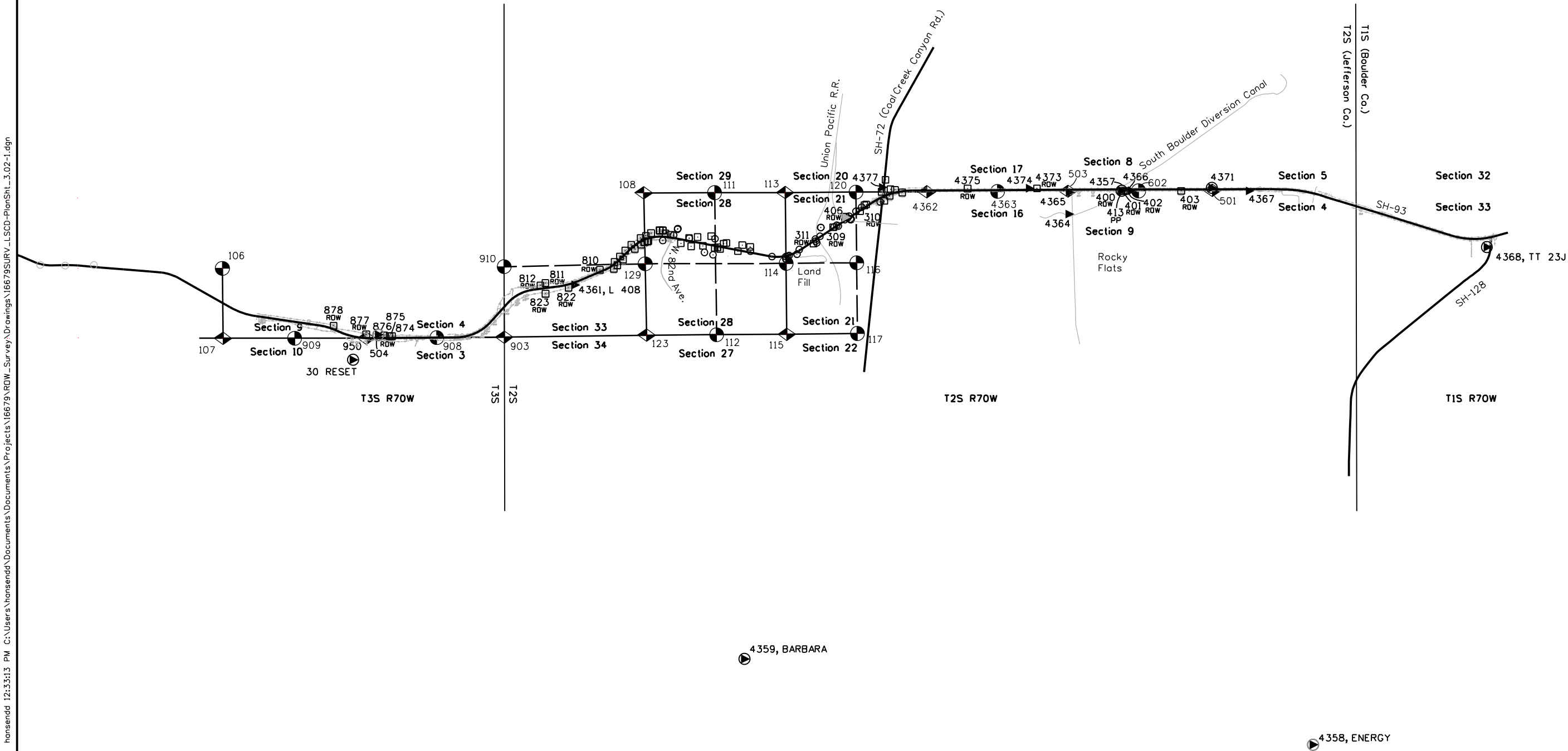
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Land Survey Control Diagram

Plan Sheet

Project Number: NH 093A-008			
Project Location: SH 93, SH 58 to SH 128			
T1, 2 & 3S, R70W/6th PM, Boulder & Jefferson Counties			
Project Code:	Last Mod. Date:	Subset	Sheet No.
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Land Survey Control Diagram

Plan Sheet

NH 093A-008

SH 93, SH 58 to SH 128

T1, T2, & T3S, R70W/6th PM, Boulder and Jefferson Counties

Project Code:	Last Mod. Date	Subset	Sheet No.
16679	04-21-11	3 of 6	3.03



Union Pacific R.R.

SH-72 (Coal Creek Canyon Rd.)

Land Fill

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Project Control Diagram

Tabulation Sheet

Project Number: NH 093A-008				
Project Location: SH 93, SH 58 to SH 128				
T1, T2, & T3S, R70W/6th PM, Boulder and Jefferson Counties				
Project Code: 16679	Last Mod. Date: 04-21-11	Subset: 4 of 6	Sheet No.: 3.04	

Project M6037 (2004) Fast Static GPS Survey Project Control (GPS derived elevations unless noted otherwise)

Geodetic and State Plane (1983 Zone 502) coordinates							Project Specific Coordinates				Description
Point	Latitude	Longitude	Ellipsoid Height	Convergence Angle	Northing (survey ft)	Easting (survey ft)	Point	Northing (Project)	Easting (Project)	Elevation NAVD'88	
504	39°48'50.64483"N	105°13'19.46247"W	5898.97	0°10'46.48"	1721525.251	3078076.586	504	96150.731	63664.270	5950.45	HARN point F 411 RESET, NGS value not held. From Project NO BR 058-006.
4357	39°53'25.66643" N	105°14'27.42953" W	6154.15	0°09'48.2"	1749338.960	3072693.460	4357	123971.958	58279.691	6205.70 *	NGS PID KK0660 BM TT 24J 3.5" Brass Cap in conc
4358	39°54'35.73345" N	105°10'01.20197" W	5802.81	0°12'36.1"	1756496.770	3093419.710	4358	131131.703	79011.543	5856.27 *	NGS PID KK1797 ENERGY 3.25" Brass Cap in conc
4359	39°51'05.58500" N	105°10'43.39356" W	5764.33	0°12'09.5"	1735219.850	3090207.030	4359	109849.032	75797.995	5817.15 *	NGS PID KK1779 BARBARA 3.25" Brass Cap in conc
4360	39°59'29.12987" N	105°15'39.67586" W	5437.23	0°09'02.6"	1786103.700	3066965.150	4360	160746.635	52549.833	5488.86	NGS PID AJ7990 dsrc Boulder CORS L1 Phase Center
4361	39°50'03.23239" N	105°13'43.01675" W	5951.30	0°10'16.2"	1728864.730	3076216.600	4361	103492.194	61803.783	6002.60 *	NGS PID KK1363 BM L 408 deep rod in PVC box
4362	39°52'13.57795" N	105°14'27.30759" W	6198.61	0°09'48.2"	1742044.280	3072723.770	4362	116675.311	58310.008	6249.95	Sec. Cor. 1927 Brass Plaque in conc 1x2x2'
4363	39°52'39.66604" N	105°14'27.41195" W	6199.24	0°09'48.2"	1744684.130	3072708.100	4363	119315.873	58294.339	6250.67	1/4 Cor. Alum. Cap
4364	39°53'05.98926" N	105°14'16.34921" W	6158.50	0°09'55.2"	1747350.280	3073562.910	4364	121982.740	59149.375	6210.10	DMWW 3" Brass Cap LS16398 1980 in conc filled pipe
4365	39°53'06.13389" N	105°14'26.78363" W	6177.40	0°09'48.6	1747362.580	3072749.450	4365	121995.045	58335.694	6228.90	CDOT Type 1 Ref. Mon.
4366	39°53'29.02396" N	105°14'27.46102" W	6148.84	0°09'48.1"	1749678.710	3072690.040	4366	124311.796	58276.267	6200.39	3.25" Alum. Cap CDOH Type 2 Control Mon. in PVC box
4367	39°54'12.66618" N	105°14'27.18731" W	6090.34	0°09'48.3"	1754095.000	3072698.780	4367	128729.280	58285.009	6142.00	NGS PID KK0659 BM P320 3.5" Brass Cap in rock
4368	39°55'40.61366" N	105°13'59.89783" W	5849.92	0°10'05.5"	1763000.770	3074799.450	4368	137637.461	60386.250	5901.97 *	NGS PID KK0655 BM TT 23J 3.5" Brass Cap in conc
4371	39°53'58.99092" N	105°14'28.66943" W	6112.43	0°09'47.4"	1752710.840	3072587.210	4371	127344.752	58173.410	6164.08 *	NGS PID KK1358 BM JCMD 14 *horiz value not held
4373	39°52'54.31371" N	105°14'28.70959" W	6190.30	0°09'47.4"	1746166.060	3072602.710	4373	120798.197	58188.921	6241.75	CDOH ROW Conc. Mon. w/Brass Cap
4374	39°52'51.31946" N	105°14'28.76423" W	6182.45	0°09'47.3"	1745863.050	3072599.320	4374	120495.111	58185.523	6233.91 *	NGS PID KK0661 BM N320 3.5" Brass Cap in rock
4375	39°52'28.68514" N	105°14'28.68974" W	6207.15	0°09'47.4"	1743572.680	3072611.650	4375	118204.124	58197.856	6258.56	CDOH ROW Conc. Mon. w/Brass Cap
4376	39°52'01.78362" N	105°14'28.23800" W	6192.75	0°09'47.7"	1740850.600	3072654.620	4376	115481.308	58240.844	6244.07	CDOH ROW Conc. Mon. w/Brass Cap
4377	39°51'57.04530" N	105°14'29.43895" W	6195.08	0°09'46.9"	1740370.860	3072562.340	4377	115001.439	58148.539	6246.36 *	NGS PID KK1359 BM G 408 deep rod in PVC box
4378	39°51'43.33832" N	105°14'15.03260" W	6166.81	0°09'56.0"	1738987.070	3073689.710	4378	113617.273	59276.212	6218.19 *	3.25" Alum. Cap CDOH Type 2 Control Mon. in PVC box

* = NGS Published elevation, NAVD '88

Project M6037 (2004) Recovered Monumentation, RTK (double base) (GPS derived elevations unless noted otherwise)

Point	Northing (Project)	Easting (Project)	Elevation NAVD'88	Description
400	123944.913	58290.366	6208.15	3.25" Alum. Cap, CDOT ROW 158, PLS 11434
401	124055.802	58289.705	6203.93	3.25" Alum. Cap, CDOT ROW 160, PLS 11434
402	124143.296	58283.591	6204.13	3.25" Alum. Cap, CDOT ROW 159, PLS 11434
403	126196.985	58280.404	6178.12	3" Brass Cap, SHD AA-13-1 ROW 236+00
404	115131.268	57868.247	6253.17	3.25" Alum. Cap, CDOH ROW 304, PLS 22571
405	114981.064	58316.099	6243.57	1.5" Alum. Cap, TST 184, LS 14166
406	113638.114	59251.589	6219.88	3.25" Alum. Cap, CDOT ROW 373, PLS 11434
407	113818.734	59330.013	6220.58	1" Yellow Plastic Cap, LS 31169
408	114939.250	58691.488	6236.16	1" Yellow Plastic Cap, LS 31169
409	115082.686	58661.520	6235.34	3.25" Alum. Cap, CDOH ROW 318, PLS 22571
410	115287.391	58472.254	6239.39	3.25" Alum. Cap, CDOH ROW 301, PLS 22571
411	115755.344	58342.562	6245.36	3.25" Alum. Cap, CDOH ROW 300, PLS 22571
413	123971.736	58284.504	6205.85	1.5" Alum. Cap, Contra Ltd, LS 5447
414	115316.688	58225.848	6246.08	3" Brass Cap, USC&GS and State Survey
415	121956.844	58286.190	6230.41	0.75" iron rod, top mushroomed to 1", in 3" pipe filled w/conc.
500	124594.509	58271.835	6193.60	No. 6 rebar, bent, w/2.5" Alum. Cap along side
501	127354.068	58255.284	6163.57	2.5" Brass Cap, LS 20699, Sec. 5,4/ ,9, 1995
502	114018.952	58319.418	6241.96	2"x3" Brass Plaque, 1/4 cor., G COORS of GARDNER
600	124584.818	58281.196	6193.89	2" Alum. Cap, Ref. Point
601	124604.266	58281.495	6193.28	2" Alum. Cap, Ref. Point

Project M6037 (2004) Recovered Monumentation, conventional methods

Point	Northing (Project)	Easting (Project)	Elevation NAVD'88	Description
603	121876.095	58188.024		Reference point, CDOT Type 1 monument, set

Aliquot evidence and reference points, from double based RTK (GPS derived elevations)

Point	Northing (Project)	Easting (Project)	Elevation NAVD'88	Description
503	121956.274	58287.624	6229.77	3.25" Brass Cap, Army Corp of Engineers (8/9/17/16 T2S R70W)
602	124594.352	58271.894	6193.79	3.25" Alum Cap, Colo Dept of Transportation "PLS NO 14599 T2S R70W 1/4 S8 2004"
900	100866.882	63745.991	5782.77	3" Brass Cap, D.M.W.W., "RP to SEC.COR, 33 34/4 3, STONE 10.00 LS 7788, 1974"
901	100856.890	63736.119	5781.91	3" Brass Cap, D.M.W.W., "RP to SEC.COR, 33 34/4 3, STONE 10.00 LS 7738, 1974"
902	100825.652	63746.481	5780.68	1" pipe with 2 inch brass tag "RP LS 16398"
903	100856.888	63746.097	5782.14	5" x 5" tan colored stone. (33 34/4/3)
904	95757.325	63852.424	5948.37	1.5" Alum. Cap, "D.W.D. RP 4/3 9/10 LS 16398"
905	95564.799	63905.264	5964.00	2" Alum. Cap, "F.F. KNOWLES 177.06 RLS 22571"
906	95571.135	63652.213	5967.93	1.5" Alum. Cap, "D.W.D. RP 4 3/9 10 LS 16398"
907	95796.112	63690.247	5953.41	1.5" Alum. Cap, "D.W.D. RP 4 3/9 10 LS 16398"
908	98331.255	63765.498	5869.62	3" Brass Cap, "D.W.D. 1/4 COR 4-3 T3S R70W LS 16398 1990"
909	93012.193	63787.208	5840.87	3.25" Alum. Cap, "T3S R70W S9 S10 1986 LS 12405"
910	100851.780	61109.590	5888.74	3" Brass Cap, "D.M.W.W. 1/4 Cor L.S. 7788 1974 33/4"
911	100827.225	61137.260	5887.69	Chisled X found on light red colored stone
950	95694.513	63784.825	5999.99	Calculated point from reference points 904 through 907.

Colorado Department of Transportation



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Region 6

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Project Control Diagram

Tabulation Sheet

Project Number: NH 093A-008				
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T1, T2, & T3S, R70W/6th PM, Boulder and Jefferson Counties				
Project Code:	Last Mod. Date	Subset	Sheet No.	
16679	04-21-11	5 of 6	3.05	

R.O.W Markers and Property Pins, from double based RTK (GPS derived elevations)

Point	Northing (Project)	Easting (Project)	Elevation NAVD'88	Description
800	107081.739	59911.460	5930.03	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
801	106794.817	59761.507	6011.38	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
802	106675.319	59761.006	6014.38	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
803	106353.860	59853.979	5996.14	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
804	106154.250	59950.166	5972.62	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
805	105954.439	60032.224	6012.98	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
806	105609.008	60285.148	6015.64	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
807	105381.591	60508.070	6014.99	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
808	105192.640	60728.256	6011.94	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
809	104984.193	60934.235	6008.07	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
810	104435.614	61227.924	6010.72	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
811	102398.227	61720.381	6012.01	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
812	102206.607	61804.769	5989.19	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
813	106249.272	60153.843	5961.51	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO. sta 113 74.54 (92.93)"
814	106213.565	60162.741	5963.06	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO. sta 114 13.2 (89.5)"
815	106112.777	60193.115	5971.50	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO. sta 115 24.26 (81.77)"
816	106097.510	60197.822	5974.76	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO. sta 115 40.8 (80)"
817	105746.856	60450.211	6012.19	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO. sta 120 00 (110)"
818	105306.578	60840.627	6008.46	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO. sta 125 80 38 (80)"
819	105087.516	61056.662	6008.04	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO. sta 128 80.38 (85)"
820	104955.695	61189.593	6007.87	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO. sta 130 55.31 (111.62)"
821	105976.534	60291.362	6006.03	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
822	103261.567	61897.307	6001.61	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
823	102401.978	62123.961	6004.10	3" Brass cap "DEPT OF HIGHWAYS STATE OF COLO."
874	96653.016	63707.476	5917.36	1.5" Alum Cap, "COLO DIV HWYS ROW"
875	96563.662	63708.256	5923.49	1.5" Alum Cap, "COLO DIV HWYS ROW"
876	96363.347	63679.658	5940.27	1.5" Alum Cap, "COLO DIV HWYS ROW"
877	95693.503	63643.002	5961.84	1.5" Alum Cap, "COLO DIV HWYS ROW"
878	94466.792	63313.430	5902.93	1.5" Alum Cap, "COLO DIV HWYS ROW"

R.O.W Markers and Property Pins, Coordinates Converterd to Project Specific Coordinates from Project BR 093-1 (016) (1994)

Township 2 South, Range 70 West, 6th P.M.

Point	Northing (Project)	Easting (Project)	Description
300	113369.278	59592.420	NO. 3 rebar- bent
301	113307.413	59560.620	1-1/4" Alum. cap - TST 179 LS 14166
302	113611.360	59354.374	1-1/4" Alum. cap - TST 180 LS 14166
303	113708.864	59288.162	1-1/4" Alum. cap - TST 181 LS 14166
304	113765.233	59224.528	1-1/4" Alum. cap (bent) - TST 181A LS 14166
305	114026.083	59041.926	1-1/4" Alum. cap - TST 182C LS 14166
306	114242.080	58891.011	1-1/4" Alum. cap - TST 182B LS 14166
307	114338.834	58823.176	3-1/4" Alum. cap - CDOT ROW #308 LS 22571
308	114410.401	58792.898	3-1/4" Alum. cap - CDOT ROW #309 LS 22571
309	113177.170	59649.072	1-1/4" Alum. cap - 16 SEC ROW LI LI
310	114177.212	59041.792	3-1/4" Alum. cap - CDOT ROW #315 LS 22571
311	112435.080	60263.423	2" Brass cap w/punch mark in conc.
312	112560.472	60218.239	1-1/2" Alum. cap - MERRICK & CO. PLS 13155
313	111909.082	60471.956	1-1/2" Alum. cap - TST 239 LS 14166
314	111529.000	60693.736	1-1/2" Alum. cap - TST 240 LS 14166
315	111465.325	60716.195	1-1/2" Alum. cap - TST 241 LS 14166
316	111404.327	60734.766	1-1/2" Alum. cap - W.M. STENGEL LS 4846
317	111405.059	60830.175	1-1/4" Blue Plastic Cap - RUBINO RLS 14142
318	111410.372	60832.810	2" Brass cap in conc. - A.O. BC-I ELV. 6095.7
319	110885.618	60734.055	1-1/2" Alum. cap - W.M. STENGEL LS 4846
320	110079.666	60536.711	1-1/2" Alum. cap - W.M. STENGEL LS 4846
321	110065.587	60379.181	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
322	109772.085	60315.709	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
323	109604.297	60542.550	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
324	109177.426	60233.114	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
325	109072.353	60255.916	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
326	108753.750	60067.398	1-1/2" Alum. cap - W.M. STENGEL LS 4846
327	108610.750	59982.529	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
328	108098.945	60014.692	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
329	108298.089	60341.648	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
330	108742.161	60414.585	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
331	108845.779	60401.384	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
332	108937.905	60457.013	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
333	107779.458	60051.211	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
334	107361.832	59691.161	1-1/2" Alum. cap - W.M. STENGEL LS 4846
335	107201.300	59934.846	1-1/2" Alum. cap - W.M. STENGEL LS 4846
336	106897.571	59873.777	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
337	106794.829	59761.353	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
338	106675.369	59760.902	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
339	106796.893	60134.861	1-1/2" Alum. cap - W.M. STENGEL LS 4846
340	107471.925	60246.869	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
341	107855.593	60361.411	3" Brass cap in 6" conc. cly. - CDOH ROW MON.
342	107789.565	60049.898	1-1/2" Alum. cap - W.M. STENGEL LS 4846
343	107353.186	59716.437	1-1/2" Alum. cap - W.M. STENGEL LS 4846
344	108358.308	60577.917	1-1/4" Blue Plastic Cap - RUBINO RLS 14142
345	108676.234	60668.294	1-1/4" Blue Plastic Cap - RUBINO RLS 14142
346	112710.294	59650.252	1-1/4" Alum. cap - TST LS 14166
347	112712.116	59651.000	1" pipe in conc.
348	111404.637	60817.878	1-1/2" Alum. cap - MERRICK & CO. PLS 13155
349	111819.558	60646.298	1-1/2" Alum. cap - MERRICK & CO. PLS 13155
350	112527.449	60157.677	1-1/2" Alum. cap - MERRICK & CO. PLS 13155
351	113215.412	59622.961	1-1/4" Alum. cap - TST 178 LS 14166
352	112679.021	59972.684	NO. 4 rebar
353	112505.310	60080.659	1-1/4" Alum. cap - TST LS 14166



2000 South Holly
Denver, CO 80222
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Region 6

SLK

Sheet Revisions

Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Sheet Revisions

Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Sheet Revisions

Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Project Control Diagram

Tabulation Sheet

Project Number: NH 093A-008				
Project Location: SH 93, SH 58 to SH 128				
T1, T2, & T3S, R70W/6th PM, Boulder and Jefferson Counties				
Project Code:	Last Mod. Date	Subset	Sheet No.	
16679	04-21-11	6 of 6	3.06	

Aliquot evidence, Coordinates Converterd to Project Specific Coordinates from Project BR 093-1 (016) (1994)

Township 3 South, Range 70 West, 6th P.M.

Point	Northing (Project)	Easting (Project)	Description
100	79684.987	61185.099	3" SQ. IRON PLATE IN CONCRETE BLOCK STAMPED 1/4 W/CROSS (S1/4 S21)
101	82261.807	63793.011	4" rebar IN 1" PIPE
*102	82267.364	63789.905	9" x 11" x 17" GRANITE STONE (E1/4 S21)
103	84892.153	58538.320	1" HEAD BOLT IN ASPH (NW COR S21)
104	84908.603	61165.025	1-1/2" IRON PIPE (N1/4 S21)
105	84924.602	63772.978	6" x 12" x 14" STONE (NE COR S21)
106	90306.146	61171.166	TRIANGULAR STONE WITH CHISELED CROSS (N1/4 S16)
107	90330.072	63789.680	10" x 8" X 8" STONE WITH CROSS (NE COR S16)
118	79654.675	59870.910	#10 rebar (W1/16 S21-S28)
*121	82262.074	58547.539	3" x 4" x 9" STONE (W 1/4 S21)
122	82335.302	63793.011	4" PIPEw/CONC & NAIL

Township 2 South, Range 70 West, 6th P.M.

Point	Northing (Project)	Easting (Project)	Description
108	106081.060	58346.752	3" Brass Plate in conc.block stamped "G.COORS of GARDNER 1927"
109	106126.429	61001.936	D.M.W.W. 3" Brass cap STAMPED 1/4 COR LS 7738 1974 (S 1/4 S28)
110	106173.768	63671.089	D.M.W.W. 3" Brass cap STAMPED SEC COR LS 7738 1974 (SE COR S28)
*111	108730.048	58341.174	6" x 8" x 10" STONE WITH CROSS (W1/4 S28)
112	108803.192	63655.171	2" Brass cap in conc "MSM" (E1/4 S28)
*113	111369.332	58334.404	1" IRON PIPE IN ROCK MOUND (NW COR S28)
114	111407.086	60985.057	2-1/4" IRON cap ON PIPE IN CONC. (N1/4 S28)
115	111432.410	63639.265	2" Brass cap in conc. stamped W/SEC NUMBERS (NE COR S28)
116	114045.539	60964.944	3" capped IRON PIPE IN CONCRETE (C1/4 S21)
117	114071.955	63609.633	1-1/4" IRON PIPE IN ROCK MOUND (E1/4 S21)
120	114018.955	58319.458	3" Brass Plate in conc.block stamped "G.COORS of GARDNER 1927"
123	106188.190	63670.045	3-1/4" Alum. cap ON 2-3/8" POST IN BOX (SE COR S28)
*129	106129.442	61002.747	7" x 5" x 16" STONE (S1/4 S28)
131	108729.945	58340.715	1 1/2" TST Alum. cap (W1/4 S28)
133	111361.745	58376.506	3/4" STEEL BOLT (NW COR S28)

* Denotes monument accepted as land corner (double-monumented corner)

R.O.W Markers and Property Pins, Coordinates Converterd to Project Specific Coordinates from Project BR 093-1 (016) (1994)

Township 3 South, Range 70 West, 6th P.M.

Point	Northing (Project)	Easting (Project)	Description
200	79655.532	59908.889	1-1/2" Alum. Cap - DB & CO. PLS 17664
201	79655.028	59896.009	1" SMOOTH BAR
202	79652.588	59795.383	NO. 4 rebar - BENT
203	79637.606	59745.395	NO. 5 rebar
204	79178.085	60080.499	3-1/4" Alum. cap - CDOH ROW MON.
205	79329.989	60029.529	3-1/4" Alum. cap - CDOH ROW MON.
206	81307.928	59923.661	NO. 3 rebar
207	81950.184	60390.734	NO. 3 rebar
208	81799.353	60469.369	NO. 3 rebar
209	81885.649	60466.876	NO. 3 rebar
210	82089.488	60463.193	NO. 3 rebar
211	82165.24	60612.33	CHISELED 5' OFFSET CROSS
212	82281.236	60674.075	NO. 3 rebar
213	82283.47	60803.938	NO. 4 rebar
214	82288.461	61114.414	NO. 3 rebar
215	82288.154	61115.868	NO. 4 rebar
216	82264.327	61070.979	CHISELED CROSS IN CONC. - WITNESS TO C1/4 S21
217	82264.424	61114.85	CHISELED CROSS IN CONC. - WITNESS TO C1/4 S21
218	82280.195	60609.173	NO. 3 rebar
219	82167.428	60742.181	CHISELED 5' OFFSET CROSS
220	82127.38	60753.379	CHISELED 5' OFFSET CROSS
221	82043.735	60568.782	CHISELED 5' OFFSET CROSS
222	81968.571	60570.251	CHISELED 5' OFFSET CROSS
223	83586.202	61064.373	2" Alum.cap in conc. - J.R. ENG. LS 15258
224	83805.084	61087.493	2" Alum.cap in conc. - J.R. ENG. LS 15258
225	83807.182	61087.497	NO. 5 rebar
226	84247.223	61083.643	2" Alum.cap in conc. - J.R. ENG. LS 15258
227	84560.809	61081.008	2" Alum.cap in conc. - J.R. ENG. LS 15258
228	84612.889	61083.013	2" Alum.cap in conc. - J.R. ENG. LS 15258
229	84908.27	61108.781	2" Alum.cap in conc. - J.R. ENG. LS 15258
230	84907.938	61048.224	NO. 4 rebar w/Blue Plastic cap (illegible)
231	84799.908	61039.424	NO. 4 rebar
232	84444.395	61026.429	NO. 4 rebar
233	84086.174	61029.959	NO. 4 rebar
234	84085.027	60672.176	NO. 4 rebar w/Blue Plastic cap (illegible)
235	83584.964	60674.144	NO. 4 rebar w/Blue Plastic cap (illegible)
236	83290.388	60920.915	CHISELED CROSS IN CONC.
237	81881.402	58549.16	NO. 5 rebar w/Alum. cap - DB AND CO. LS 2149
238	81760.139	58549.545	NO. 5 rebar
239	80956.258	59203.524	NO. 4 rebar
240	80956.447	59203.718	NO. 3 rebar