

COLORADO DEPARTMENT OF TRANSPORTATION

Region 1
Address: 18500 East Colfax Avenue
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9746

Survey Unit: Joseph P. Conway

Sheet Revisions

mm/yy	xxxxx	xxx

I-70 MP 206.0 TO MP 213.0

Located in:
section 19 Township 4 south Range 76 west
sections 4,5,6,7 Township 5 south Range 77 West
of the 6th Principal Meridian, in county of Summit
State of Colorado

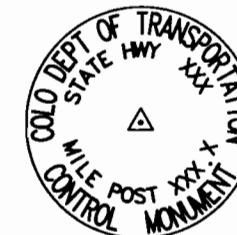
Survey Control Diagram

Plan Sheet

Project Number: Proj #		IM 0702-242		
Project Location: Proj Loc.		I-70 MP 206.0 TO MP 213.6		
Project Location:		STRAIGHT CREEK I-70		
Project Code:	Last Mod. Date	Submittal Sheets	Sheet No.	Total No. of Sheets
14527	01-20-05	1 of 26		xxx

PROJECT COORDINATE SUMMARY TABLE
(MAPPING COORDINATE) (ADJUSTED FIELD DATA)

POINT NAME	PROJECT COORDINATES		ELEV(FT)	DESCRIPTION
	NORTH (FT)	EAST (FT)		
I-70 CM-MP 213.6 "WESTTUN"	672519.62	876967.77	11162.24	CDOT Type II Control Monument
I-70 CM-MP 213.3	671643.51	876015.67	11078.51	CDOT Type II Control Monument
I-70 CM-MP 213.2	671526.23	875224.24	11034.50	CDOT Type II Control Monument
I-70 CM-MP 213.1	671783.25	874639.03	10990.16	CDOT Type II Control Monument
I-70 CM-MP 212.85	671883.67	873492.25	10913.68	CDOT Type II Control Monument
I-70 CM-MP 212.6	671868.14	872288.52	10840.27	CDOT Type II Control Monument
I-70 CM-MP 212.44	671483.53	871426.19	10782.90	CDOT Type II Control Monument
I-70 CM-MP 212.21	670804.21	870572.10	10717.09	CDOT Type II Control Monument
I-70 CM-MP 211.94	670627.88	869264.44	10633.41	CDOT Type II Control Monument
I-70 CM-MP 211.81	670730.73	868228.41	10579.87	CDOT Type II Control Monument
I-70 CM-MP 211.5	670452.71	867286.30	10529.54	CDOT Type II Control Monument
I-70 CM-MP 211.2	668923.75	866166.68	10400.55	CDOT Type II Control Monument
I-70 CM-MP 211.1	668206.89	865667.11	10364.66	CDOT Type II Control Monument
I-70 CM-MP 210.99	667581.99	865441.33	10300.17	CDOT Type II Control Monument
I-70 CM-MP 210.75	666664.35	864527.00	10242.44	CDOT Type II Control Monument
I-70 CM-MP 210.6	666389.38	863796.33	10193.57	CDOT Type II Control Monument
I-70 CM-MP 210.36	665734.59	862727.74	10115.97	CDOT Type II Control Monument
I-70 CM-MP 210.16	665098.84	861920.03	10051.80	CDOT Type II Control Monument
I-70 CM-MP 210.0	664630.89	861160.15	9998.95	CDOT Type II Control Monument
I-70 CM-MP 209.8	664324.66	860152.47	9936.62	CDOT Type II Control Monument
I-70 CM-MP 209.6	663639.70	859186.90	9863.56	CDOT Type II Control Monument
I-70 CM-MP 209.35	663316.18	858192.69	9800.46	CDOT Type II Control Monument
I-70 CM-MP 209.16	663233.96	857225.44	9742.14	CDOT Type II Control Monument
I-70 CM-MP 208.94	663101.12	856020.98	9668.90	CDOT Type II Control Monument
I-70 CM-MP 208.7	662812.04	854766.65	9617.97	CDOT Type II Control Monument
I-70 CM-MP 208.5	661977.93	853935.55	9515.76	CDOT Type II Control Monument
I-70 CM-MP 208.3	661777.36	852905.30	9466.63	CDOT Type II Control Monument
I-70 CM-MP 208.13	661156.00	852254.56	9410.90	CDOT Type II Control Monument
I-70 CM-MP 207.9	660409.88	851262.39	9335.28	CDOT Type II Control Monument
I-70 CM-MP 207.7 "POWERS"	660342.39	850333.97	9289.44	CDOT Type II Control Monument
I-70 CM-MP 207.57	660216.87	849569.40	9235.82	CDOT Type II Control Monument
I-70 CM-MP 207.4	659852.63	848670.81	9174.37	CDOT Type II Control Monument
I-70 CM-MP 207.16	659217.69	847773.33	9115.45	CDOT Type II Control Monument
I-70 CM-MP 207.0	659008.83	847171.56	9093.30	CDOT Type II Control Monument
I-70 CM-MP 206.82	658163.22	846241.14	9042.37	CDOT Type II Control Monument
I-70 CM-MP 206.6	657675.33	845304.23	9025.52	CDOT Type II Control Monument
I-70 CM-MP 206.36	656586.99	844407.44	8954.22	CDOT Type II Control Monument
I-70 CM-MP 206.2	656126.31	843861.69	8921.35	CDOT Type II Control Monument
I-70 CM-MP 206.0	655568.56	842801.93	8882.85	CDOT Type II Control Monument

Typical Control
Monument Cap
Not to Scale

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

BASIS OF BEARINGS: Bearings used in the calculation of coordinates are based on a grid bearing of S 65°25'47" W from CHARN "WESTTUN" being a 3-1/4" (CDOT) aluminum cap type 2 monument surrounded by a mass of concrete set flush with the ground, 158' N. of N. edge of asphalt west bound I-70 at mile post 213.6 to CHARN "POWERS" being a 3-1/4" (CDOT) aluminum cap type 2 monument surrounded by a mass of concrete set flush with the ground, 42' N. of N. edge of asphalt west bound I-70 at mile post 207.7, as obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN).

BASIS OF ELEVATIONS: The project elevation is based on 1929 NAVD elevation of (11162.24 FT), (3402.258 Meter) from CM-MP 213.6 CHARN station "WESTTUN", the purpose of using this elevation is to match all the past, present, and future TMOSS and Right of Way surveys done through out this corridor from mile post 213.6 to mile post 206.0, I-70 which was based on the aerial and control survey done by Tri-Consultant survey company in 1989-1990. The level loops performed met the CDOT Standard stated in Chapter 5 of the October 2003 Survey Manual at 5.86' CDOT Tolerance = sq. root of the distance in miles = 0.035'.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83(92) coordinates. State plane coordinates were modified to a mean project elevation of 9949.31 FT (3032.557 meters). The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates was 0.9995073497. Project coordinates were truncated by 1000834.90 in the Northing and by 2001445.035 in the Easting after converting from state plane coordinates to project coordinates. The project coordinates is also known as "Mapping Coordinates" which were established by Tri-Consultant Survey in 1989-1990 and they have been used for numerous TMOSS and Right Of Way survey ever since. The CHARN is based on the NAD '83(92) datum.

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

NOTE: Refer to M-629-1 Survey Monuments of the Standard Plans, Colorado Department of Transportation, M & S Standards October 2000 for survey monument descriptions. Refer to M-100-1 Standard Symbols of the Standard Plans, Colorado Department of Transportation, M & S Standards October 2000 for standard symbol definitions.

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 statement shown hereon.

CONSTRUCTION SURVEYING AND MONUMENTATION REQUIREMENTS:

- This Control Survey Diagram represents the horizontal and vertical control for the project established by the Division. It is possible that some of the survey control monuments listed have been disturbed or obliterated. It is the Contractor's responsibility to verify the existence and stability of the control monuments before submitting a bid price.
- All Type 1 and Type 2 monuments shall be set flush with the ground. Witness posts shall be installed 1 foot from and facing all Type 1 and Type 2 monuments, or as directed by the Project Engineer.
- Installation of Type 3 and Type 3-A monuments shall be completed in the same day that installation is commenced. Under no circumstances shall holes in the roadway be left open overnight.
- When installing Type 3-A monuments, the aluminum monument box shall be positively secured in the roadway surface. The monument box shall be caulked with asphalt caulking between the monument box and the edges of the roadway surface to provide a positive moisture barrier around the monument box.

- Control survey procedures, statistical analysis, and accuracy obtained for horizontal and vertical control shall be documented in the field book.
- Legible copies of the field books shall be submitted to the Project Engineer for review on a monthly basis.
- It is ultimately the prime Contractor's responsibility to insure that these requirements, as well as any contained in the CDOT specifications, project special provisions, and CDOT Survey Manual are fulfilled under this contract.
- The minimum staking intervals for each item are described on the plans or in the CDOT Survey Manual. If the contractor wishes to reduce the minimum intervals, a Contract Modification Order must be negotiated and the cost of the item reduced accordingly.
- Whenever the contract includes the setting of CDOT Type 2 monuments, a Project Control Diagram, signed and sealed by the P.L.S. in responsible charge, shall be submitted to the Engineer. An AutoCad or Microstation drawing (as determined by the Project Engineer) on a CD shall accompany the hard copy.

SURVEYORS STATEMENT: I, Farid K Yazdani, a Professional Land Surveyor in the State of Colorado, hereby state that this Control Survey Diagram was prepared under my direct supervision this 21st day of January, 2005, from a field survey performed under my supervision and checking from May 10, 2004 to June 16 2004, for and on behalf of the Department of Transportation, State of Colorado, and is not a Land Survey Plat or Right-of-Way Survey Plat and to the best of my knowledge and belief this control survey, as shown, meets the minimum horizontal control tolerances of a CDOT Type B Survey, as listed in Chapter Three at 3.8.3 of the Colorado Department of Transportation October 2003 Survey Manual.

Farid K. Yazdani
Colorado PLS No. 36560

Date



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Sheet Revisions

Rev	Description	Rev

I-70 MP 206.0 TO MP 213.0

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section 19 Township 4 south Range 76 west
sections 4,5,6,7 Township 5 south Range 77 West
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Survey Control Diagram

Plan Sheet

Project Number: Proj #	IM 0702-242
Project Location: Proj Loc.	I-70 MP 206.0 TO MP 213.6
Project Location:	STRAIGHT CREEK I-70
Project Code:	14527
Last Mod. Date:	01-20-05
Subest. Sheets:	2 of 26
Sheet No.:	
Total No. of Sheets:	

GEODETTIC COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	GEODETTIC COORDINATES NAD-83(92) (CHARN)		ELLIP. HEIGHT	ELEV. (NAVD '88)m	MAPPING ANGLE	SCALE	NAD 83(92) ZONE 0502	
	LATITUDE(N)	LONGITUDE(W)					NORTHING (m)	EASTING (m)
I-70 CM-MP 213.6	39° 40' 44.69331"	105° 56' 13.26247"	3391.610	3403.970	-0° 16' 32.24021	0.999986740	509788.20	876909.761
I-70 CM-MP 213.3	39° 40' 35.99364"	105° 56' 25.37955"	3366.092	3378.449	-0° 16' 39.88232	0.999986315	509521.29	876619.703
I-70 CM-MP 213.2	39° 40' 34.79713"	105° 56' 35.48926"	3352.676	3365.034	-0° 16' 46.25841	0.999986257	509485.56	876378.594
I-70 CM-MP 213.1	39° 40' 37.30780"	105° 56' 42.98623"	3339.162	3351.519	-0° 16' 50.98668	0.999986380	509563.87	876200.309
I-70 CM-MP 212.85	39° 40' 38.24397"	105° 56' 57.65232"	3315.845	3328.208	-0° 17' 00.23642	0.999986425	509594.46	875850.941
I-70 CM-MP 212.6	39° 40' 38.03143"	105° 57' 13.03902"	3293.473	3305.833	-0° 17' 09.94065	0.999986415	509589.73	875484.225
I-70 CM-MP 212.44	39° 40' 34.18961"	105° 57' 24.03777"	3275.988	3288.345	-0° 17' 16.87745	0.999986228	509472.56	875221.516
I-70 CM-MP 212.21	39° 40' 27.43671"	105° 57' 34.91178"	3255.917	3268.287	-0° 17' 23.73557	0.999985899	509265.60	874961.317
I-70 CM-MP 211.94	39° 40' 25.62920"	105° 57' 51.61590"	3230.408	3242.780	-0° 17' 34.27069	0.999985812	509211.88	874562.936
I-70 CM-MP 211.81	39° 40' 26.59264"	105° 58' 04.86587"	3214.088	3226.463	-0° 17' 42.62730	0.999985859	509243.22	874247.312
I-70 CM-MP 211.5	39° 40' 23.79822"	105° 58' 16.89032"	3198.746	3211.122	-0° 17' 50.21100	0.999985723	509158.52	873960.295
I-70 CM-MP 211.2	39° 40' 08.63746"	105° 58' 31.09973"	3159.431	3171.804	-0° 17' 59.17273	0.999984992	508692.72	873619.202
I-70 CM-MP 211.1	39° 40' 01.53037"	105° 58' 37.43706"	3148.490	3160.866	-0° 18' 03.16962	0.999984651	508474.33	873467.008
I-70 CM-MP 210.99	39° 39' 55.34589"	105° 58' 40.28085"	3128.829	3141.208	-0° 18' 04.96317	0.999984355	508283.95	873398.224
I-70 CM-MP 210.75	39° 39' 46.23372"	105° 58' 51.90492"	3111.231	3123.614	-0° 18' 12.29434	0.999983921	508004.39	873119.674
I-70 CM-MP 210.6	39° 39' 43.47919"	105° 59' 01.22464"	3096.327	3108.716	-0° 18' 18.17219	0.999983790	507920.62	872897.076
I-70 CM-MP 210.36	39° 39' 36.95468"	105° 59' 14.83700"	3072.670	3085.066	-0° 18' 26.75737	0.999983480	507721.14	872571.528
I-70 CM-MP 210.16	39° 39' 30.63182"	105° 59' 25.11586"	3053.112	3065.507	-0° 18' 33.24014	0.999983182	507527.46	872325.459
I-70 CM-MP 210.0	39° 39' 25.96872"	105° 59' 34.79458"	3036.990	3049.396	-0° 18' 39.34440	0.999982962	507384.90	872093.963
I-70 CM-MP 209.8	39° 39' 22.88951"	105° 59' 47.65100"	3017.985	3030.399	-0° 18' 47.45281	0.999982817	507291.60	871786.973
I-70 CM-MP 209.6	39° 39' 16.07112"	105° 59' 59.94235"	2995.712	3008.130	-0° 18' 55.20484	0.999982497	507082.93	871492.812
I-70 CM-MP 209.35	39° 39' 12.82118"	106° 00' 12.62474"	2976.484	2988.898	-0° 19' 03.20349	0.999982345	506984.37	871189.922
I-70 CM-MP 209.16	39° 39' 11.95585"	106° 00' 24.97928"	2958.705	2971.122	-0° 19' 10.99537	0.999982305	506959.32	870895.251
I-70 CM-MP 208.94	39° 39' 10.57695"	106° 00' 40.36155"	2936.386	2948.798	-0° 19' 20.69681	0.999982240	506918.85	870528.310
I-70 CM-MP 208.7	39° 39' 07.65139"	106° 00' 56.36948"	2920.851	2933.275	-0° 19' 30.79284	0.999982104	506830.78	870146.179
I-70 CM-MP 208.5	39° 38' 59.36522"	106° 01' 06.92907"	2889.688	2902.119	-0° 19' 37.45266	0.999981718	506576.67	869892.984
I-70 CM-MP 208.3	39° 38' 57.32570"	106° 01' 20.07915"	2874.708	2887.145	-0° 19' 45.74628	0.999981624	506515.57	869579.119
I-70 CM-MP 208.13	39° 38' 51.15079"	106° 01' 28.34870"	2857.722	2870.160	-0° 19' 50.96180	0.999981338	506326.27	869380.868
I-70 CM-MP 207.9	39° 38' 43.72373"	106° 01' 40.97109"	2834.660	2847.109	-0° 19' 58.92261	0.999980995	506098.96	869078.604
I-70 CM-MP 207.7	39° 38' 43.00366"	106° 01' 52.82899"	2820.690	2833.139	-0° 20' 06.40126	0.999980962	506078.40	868795.760
I-70 CM-MP 207.57	39° 38' 41.71947"	106° 02' 02.58876"	2804.347	2816.794	-0° 20' 12.55665	0.999980903	506040.17	868562.835
I-70 CM-MP 207.4	39° 38' 38.06913"	106° 02' 14.04288"	2785.618	2798.066	-0° 20' 19.78064	0.999980735	505929.20	868289.080
I-70 CM-MP 207.16	39° 38' 31.74448"	106° 02' 25.46198"	2767.654	2780.107	-0° 20' 26.98255	0.999980445	505735.76	868015.661
I-70 CM-MP 207.0	39° 38' 29.64599"	106° 02' 33.13479"	2760.903	2773.355	-0° 20' 31.82171	0.999980349	505672.14	867832.332
I-70 CM-MP 206.82	39° 38' 21.23786"	106° 02' 44.95768"	2745.371	2757.831	-0° 20' 39.27829	0.999979965	505414.52	867548.879
I-70 CM-MP 206.6	39° 38' 16.36359"	106° 02' 56.89031"	2740.226	2752.696	-0° 20' 46.80407	0.999979743	505265.91	867263.449
I-70 CM-MP 206.36	39° 38' 05.55821"	106° 03' 08.26323"	2718.494	2730.964	-0° 20' 53.97685	0.999979254	504934.32	866990.242
I-70 CM-MP 206.62	39° 38' 00.97467"	106° 03' 15.19970"	2708.469	2720.944	-0° 20' 58.35161	0.999979047	504793.97	866823.977
I-70 CM-MP 206.0	39° 37' 55.40116"	106° 03' 28.69467"	2696.730	2709.209	-0° 21' 06.86275	0.999978796	504624.06	866501.122



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Sheet Revisions

mm/yy	XXXX	XXX

I-70 MP 206.0 TO MP 213.0
Located in:
section 19 Township 4 south Range 76 west
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Survey Control Diagram

Plan Sheet

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Project Location:		STRAIGHT CREEK I-70		
Project Code:	Last Mod. Date	Subest Sheets	Sheet No.	Total No. of Sheets
14527	01-20-05	3 of 28		

PROJECT NARRATIVE

The purpose of this survey is to establish and reestablish control for 7.3 miles on Straight Creek portion of I-70 from mile post 206.0 to mile post 213.6. The reason for setting new controls through out this corridor is that the majority of the previous control monuments set by Tri-Consultant Company in 1989-1990 were either destroyed by constructions and/or moved by natural earth movement and slope erosion, therefore it was decided that new control monuments be set and reestablish old ones through out this corridor. Many TMOSS and Right Of Way survey have been done and are ongoing on Straight Creek since 1990, therefore it was decided that the same Coordinate Datum and Vertical Datum as they were used by Tri-Consultant in 1990 and have been used for all surveys and construction ever since to be reestablished on the new and the old control monuments. Project coordinate were reduced to "Mapping Coordinate" to match the coordinate used for aerial and all other surveys in this area since 1990. Therefore Project coordinates were truncated by 1000834.90 in the Northing and by 2001445.035 in the Easting after conversion from state plane coordinates .

An elavation of 11162.24 ft on CM-MP 213.6 "CHARN station WESTTUN" was used to establish benches on control monuments which is believed to be of 1929 NAVD datum that Tri-Consultant used for the old control monuments. During the course of running elavation on new and old control monuments an elavation error (bust) of -0.638 ft was discovered on an original CM-MP 211.1 (see bench book #1, page 38) , this error was nearly uniform through out all the original monuments from CM-MP 211.1 westward to CM-MP 206.0, an elavation difference of -0.808 from the original vvalue occurred on CM-MP 206.0 (see bench book #2 page 27) . CM-MP 206.0 which is the last monument we reestablished on this project, seemed to be undisturbed and is in it's original position. New elevation values have been kept for all new and original control monuments from CM-MP 213.6 to CM-MP 206.0 on this project . Caution should be taken for using elevation values from this Control Survey Diagram for any survey west of CM-MP 206.0 ,where elevation may not match the rest of the existing control monuments on I-70 outside this Control Survey Diagram.

Farid K. Yazdani
Colorado PLS No. 36560

Date

COLORADO DEPARTMENT OF TRANSPORTATION



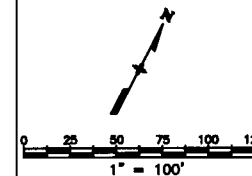
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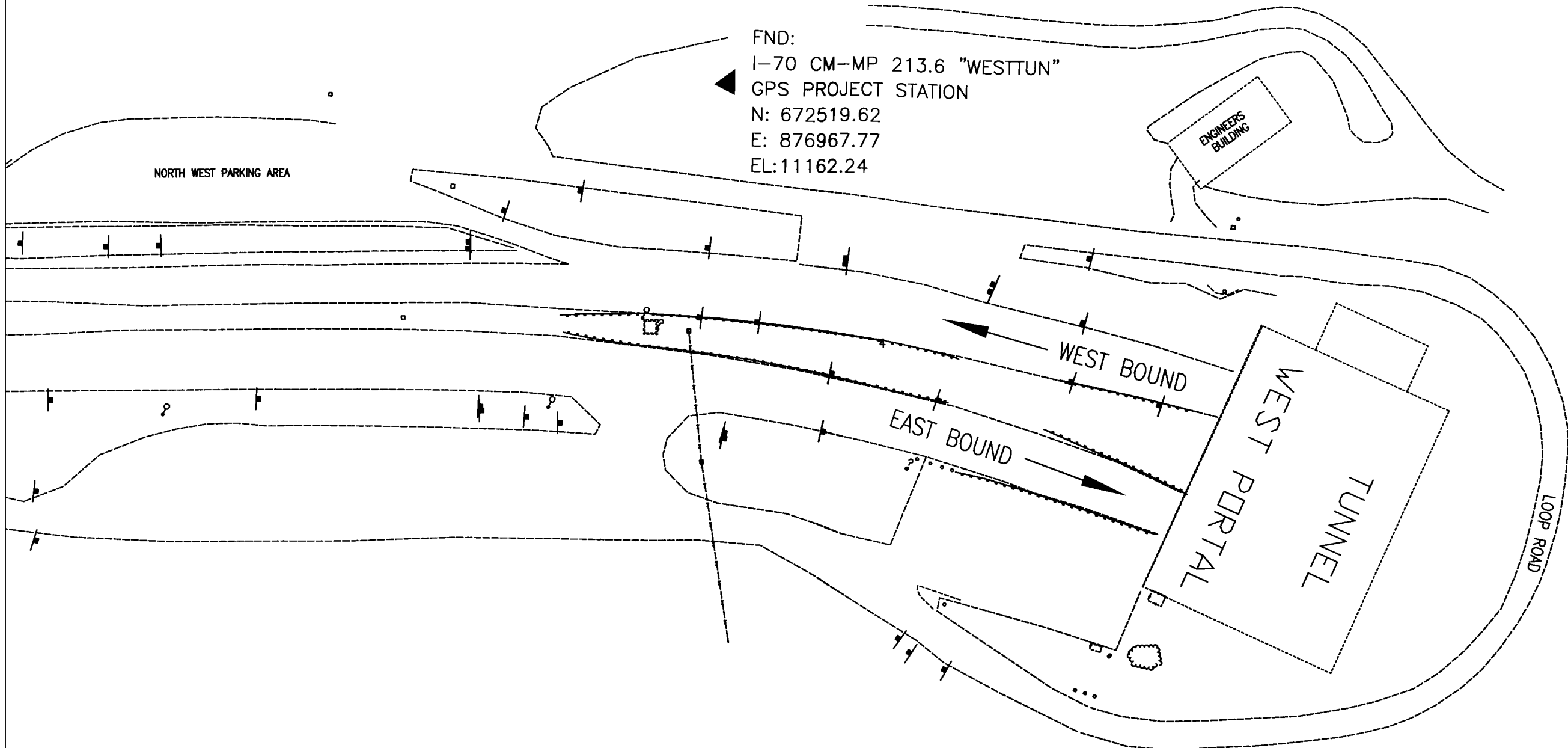
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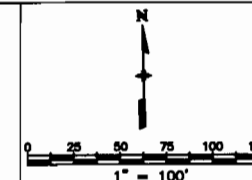
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Survey Control Diagram

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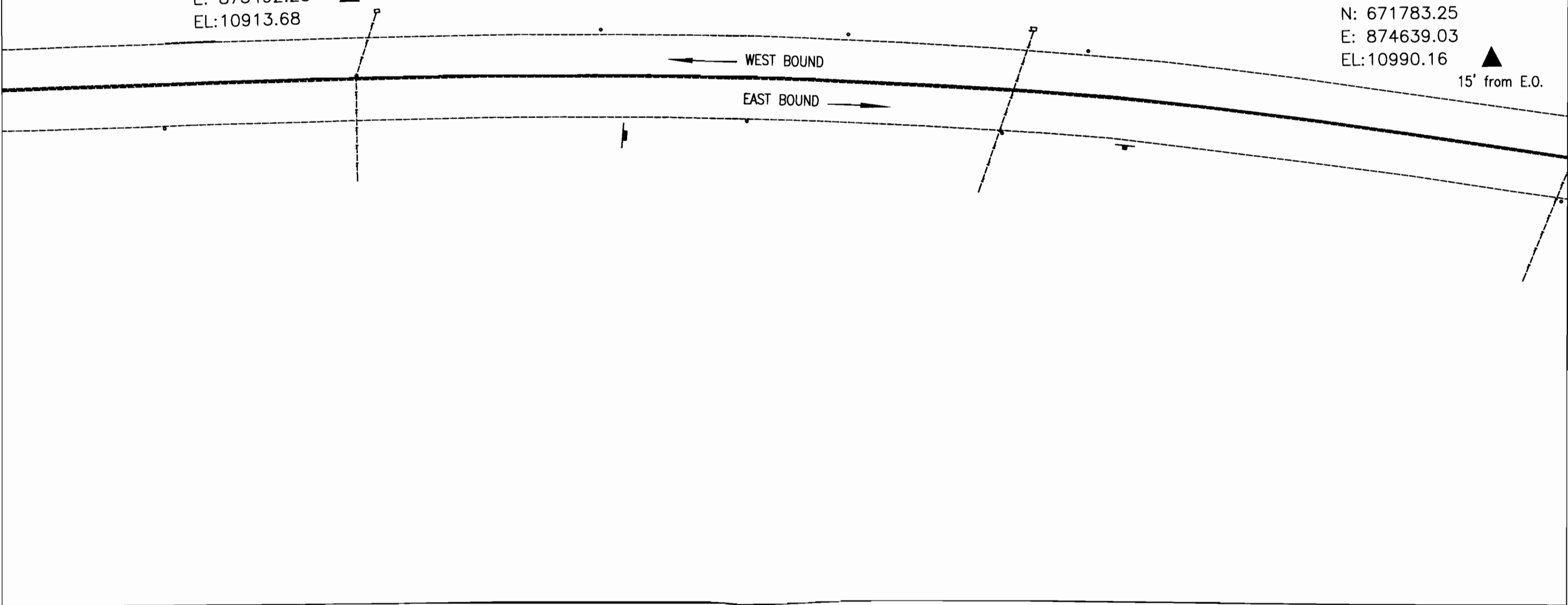
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14527	01-12-05	6 of 26		

SET:
I-70 CM-MP 212.85
GPS PROJECT STATION
N: 671883.67
E: 873492.25
EL:10913.68

▲ 18' from E.O.

SET:
I-70 CM-MP 213.1
GPS PROJECT STATION
N: 671783.25
E: 874639.03
EL:10990.16

▲ 15' from E.O.



datestamp

COLORADO DEPARTMENT OF TRANSPORTATION



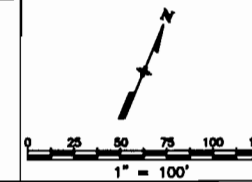
Region 1
Address: 18500 East Colfax Avenue
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9746

Survey Unit: Joseph P. Conway

Sheet Revisions

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I-70 MP 206.0 TO MP 213.0
Located in:
section 19 Township 4 south Range 76 west
sections 4,5,6,7 Township 5 south Range 77 West
of the 6th Principal Meridian, in county of Summit
State of Colorado



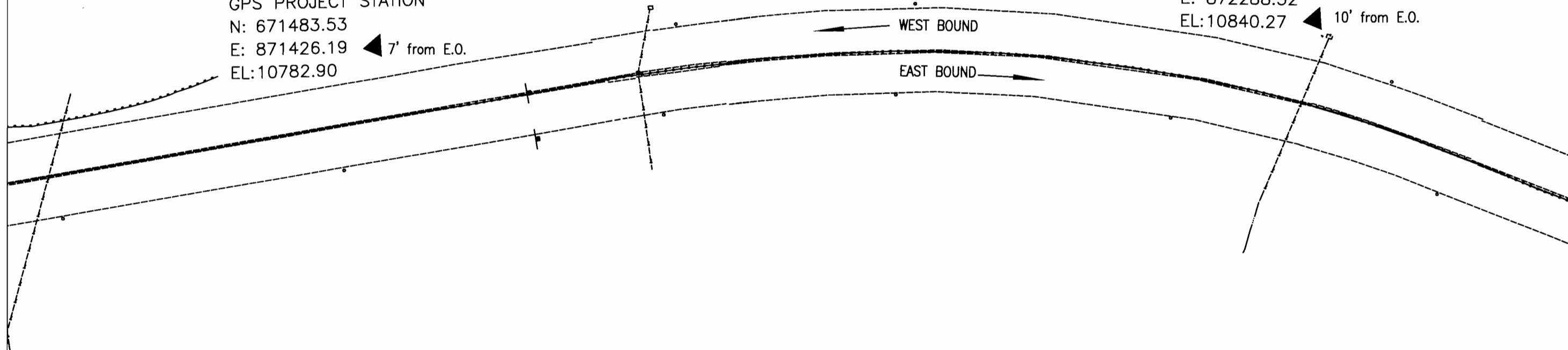
Survey Control Diagram

Plan Sheet

Project Number: Proj #		IM 0702-242		
Project Location: Proj Loc.		I-70 MP 206.0 TO MP 213.6		
Project Location:		STRAIGHT CREEK I-70		
Project Code:	Last Mod. Date	Subest Sheets	Sheet No.	Total No. of Sheets
14327	01-12-05	7 of 26		

SET:
I-70 CM-MP 212.44
GPS PROJECT STATION
N: 671483.53
E: 871426.19 ◀ 7' from E.O.
EL:10782.90

SET:
I-70 CM-MP 212.6
GPS PROJECT STATION
N: 671868.14
E: 872288.52
EL:10840.27 ◀ 10' from E.O.



COLORADO DEPARTMENT OF TRANSPORTATION



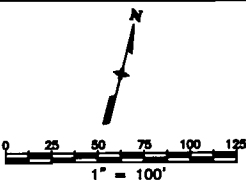
Region 1
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Survey Unit: Joseph P. Conway

Sheet Revisions

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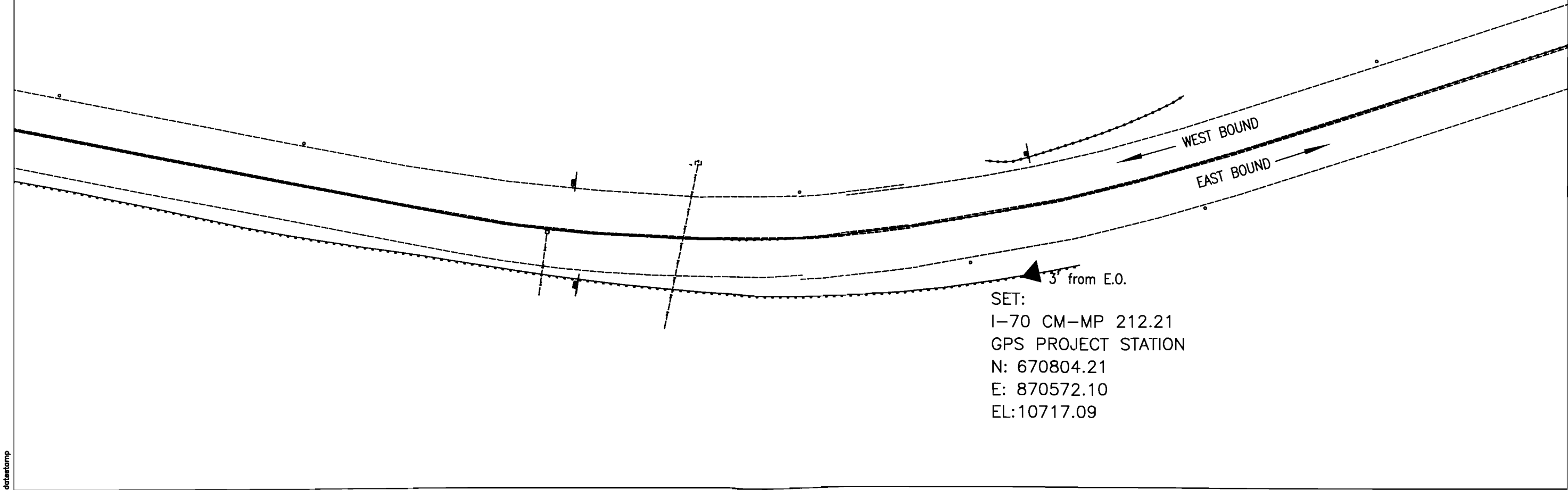
I-70 MP 206.0 TO MP 213.0
Located in:
section 19 Township 4 south Range 76 west
sections 4,5,6,7 Township 5 south Range 77 West
of the 6th Principal Meridian, in county of Summit
State of Colorado



Survey Control Diagram

Plan Sheet

Project Number: Proj #	IM 0702-242
Project Location: Proj Loc.	I-70 MP 206.0 TO MP 213.6
Project Location:	STRAIGHT CREEK I-70
Project Code:	14527
Last Mod. Date	01-12-05
Subest Sheets	8 of 26
Sheet No.	
Total No. of Sheets	



datestamp

COLORADO DEPARTMENT OF TRANSPORTATION



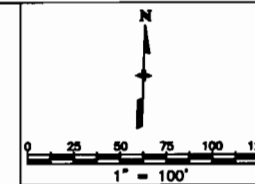
Region 1
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Survey Unit: Joseph P. Conway

Sheet Revisions

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Survey Control Diagram

Plan Sheet

Project Number: Proj # IM 0702-242				
Project Location: Proj Loc. I-70 MP 206.0 TO MP 213.6				
Project Location: STRAIGHT CREEK I-70				
Project Code:	Last Mod. Date	Submittal Sheets	Sheet No.	Total No. of Sheets
14527	01-12-05	9 of 26		

SET:
I-70 CM-MP 211.81
GPS PROJECT STATION
N: 670730.73 ▲ 32' from E.O.
E: 868228.41
EL:10579.87

UPPER RUNAWAY TRUCK RAMP

WEST BOUND

EAST BOUND

▲ 3.5' from E.O.
SET:
I-70 CM-MP 211.94
GPS PROJECT STATION
N: 670627.88
E: 869264.44
EL:10633.41

COLORADO DEPARTMENT OF TRANSPORTATION



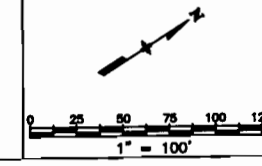
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Sheet Revisions

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I-70 MP 206.0 TO MP 213.0
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Survey Control Diagram

Plan Sheet

Project Number: Proj #	IM 0702-242
Project Location: Proj Loc.	I-70 MP 206.0 TO MP 213.6
Project Location:	STRAIGHT CREEK I-70
Project Code:	14527
Last Mod. Date:	01-12-05
Subsect Sheets:	11 of 26
Sheet No.	
Total No. of Sheets	

SET:

I-70 CM-MP 211.1

GPS PROJECT STATION

N: 668206.89

E: 865667.11

EL:10364.66

▼ 45' from E.O.

WEST BOUND

EAST BOUND

SET:

I-70 CM-MP 211.2

GPS PROJECT STATION

N: 668923.75

E: 866166.68

EL:10400.55

▼ 4' from E.O.

COLORADO DEPARTMENT OF TRANSPORTATION



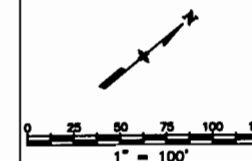
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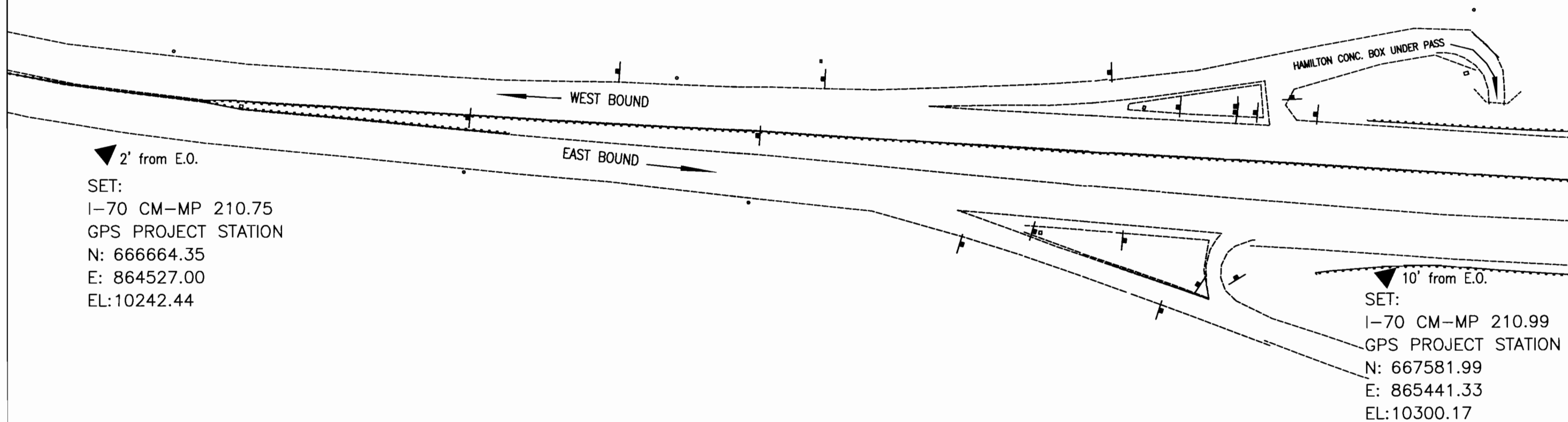


Survey Control Diagram

Plan Sheet

Project Number: Proj # IM 0702-242
Project Location: Proj Loc. I-70 MP 206.0 TO MP 213.6
Project Location: STRAIGHT CREEK I-70

Project Code:	Last Mod. Date	Subest Sheets	Sheet No.	Total No. of Sheets
14527	01-12-05	12 of 26		



2' from E.O.

SET:

I-70 CM-MP 210.75

GPS PROJECT STATION

N: 666664.35

E: 864527.00

EL:10242.44

10' from E.O.

SET:

I-70 CM-MP 210.99

GPS PROJECT STATION

N: 667581.99

E: 865441.33

EL:10300.17

COLORADO DEPARTMENT OF TRANSPORTATION



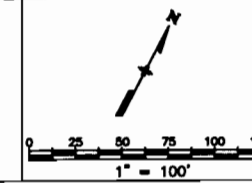
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Sheet Revisions

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State of Colorado



Survey Control Diagram

Plan Sheet

Project Number: Proj #		IM 0702-242	
Project Location: Proj Loc.		I-70 MP 206.0 TO MP 213.6	
Project Location:		STRAIGHT CREEK I-70	
Project Code:	Last Mod. Date	Subest Sheets	Sheet No. Total No. of Sheets
14527	01-12-05	13 of 26	

SET:
I-70 CM-MP 210.6
GPS PROJECT STATION
N: 666389.38
E: 863796.33
EL:10193.57

◀ 37' from E.O.

WEST BOUND

EAST BOUND

SET:

I-70 CM-MP 210.36
GPS PROJECT STATION
N: 665734.59
E: 862727.74
EL:10115.97

◀ 3' from E.O.

COLORADO DEPARTMENT OF TRANSPORTATION



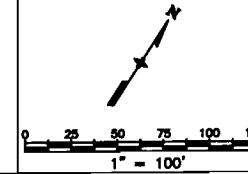
Region 1
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Survey Unit: Joseph P. Conway

Sheet Revisions

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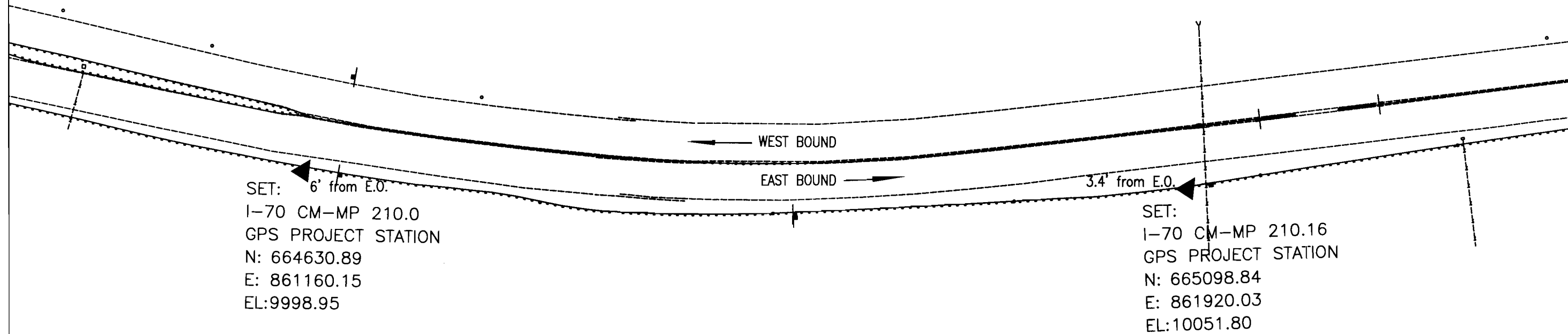
I-70 MP 206.0 TO MP 213.0
Located in:
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State of Colorado



Survey Control Diagram

Plan Sheet

Project Number: Proj #		IM 0702-242		
Project Location: Proj Loc.		I-70 MP 206.0 TO MP 213.6		
Project Location:		STRAIGHT CREEK I-70		
Project Code:	Last Mod. Date	Subsect Sheets	Sheet No.	Total No. of Sheets
14527	01-12-05	14 of 26		



COLORADO DEPARTMENT OF TRANSPORTATION



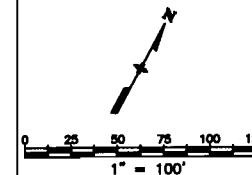
Region 1
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Sheet Revisions

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I-70 MP 206.0 TO MP 213.0
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Survey Control Diagram

Plan Sheet

Project Number: Proj # IM 0702-242				
Project Location: Proj Loc. I-70 MP 206.0 TO MP 213.6				
Project Location: STRAIGHT CREEK I-70				
Project Code:	Last Mod. Date	Subest Sheets	Sheet No.	Total No. of Sheets
14527	01-12-05	15 of 26		

SET:
I-70 CM-MP 209.6
GPS PROJECT STATION
N: 663639.70
E: 859186.90
EL:9863.56

SET:
I-70 CM-MP 209.8
GPS PROJECT STATION
N: 664324.66
E: 860152.47
EL:9936.62 ◀ 24' from E.O.

3.5' from E.O.(west bound)

WEST BOUND

EAST BOUND



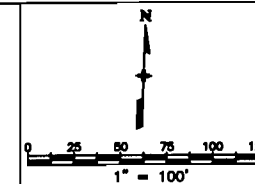
Region 1
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Survey Unit: Joseph P. Conway

Sheet Revisions

mm/yy	xxxxx	xxx

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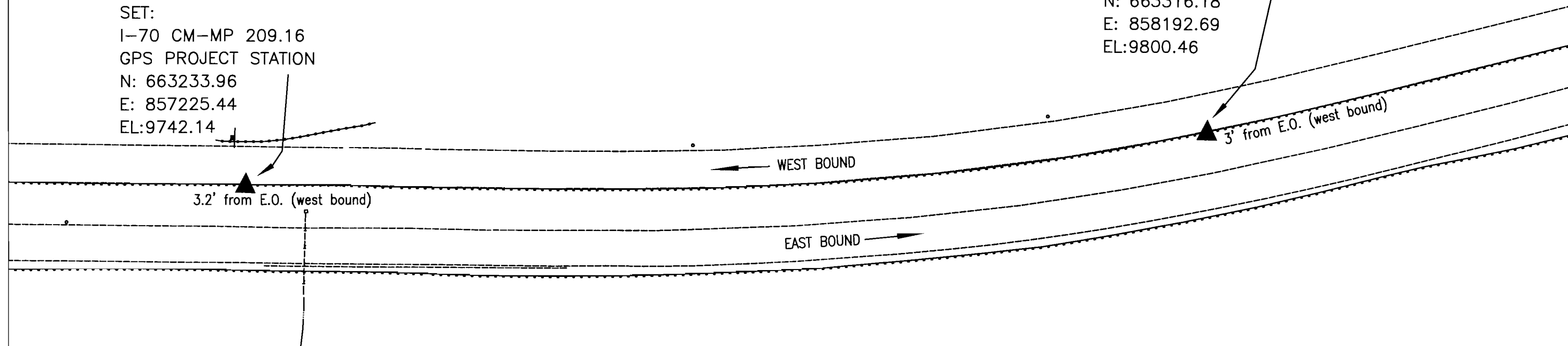
Survey Control Diagram

Plan Sheet

Project Number: Proj #		IM 0702-242	
Project Location: Proj Loc.		I-70 MP 206.0 TO MP 213.6	
Project Location:		STRAIGHT CREEK I-70	
Project Code:	Last Mod. Date	Subest Sheets	Sheet No. Total No. of Sheets
14527	01-12-05	16 of 26	

SET:
I-70 CM-MP 209.16
GPS PROJECT STATION
N: 663233.96
E: 857225.44
EL:9742.14

SET:
I-70 CM-MP 209.35
GPS PROJECT STATION
N: 663316.18
E: 858192.69
EL:9800.46



COLORADO DEPARTMENT OF TRANSPORTATION



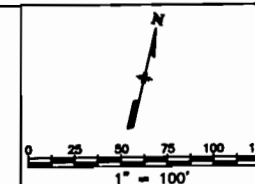
Region 1
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Survey Unit: Joseph P. Conway

Sheet Revisions

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I-70 MP 206.0 TO MP 213.0
Located in:
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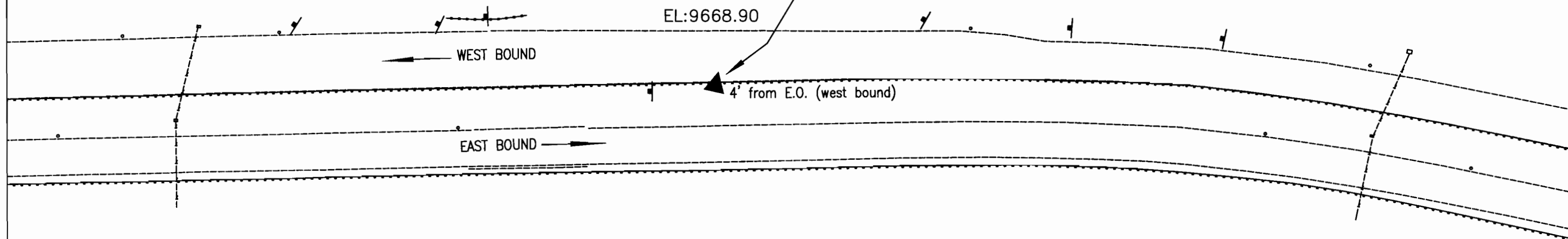


Survey Control Diagram

Plan Sheet

Project Number: Proj # IM 0702-242				
Project Location: Proj Loc. I-70 MP 206.0 TO MP 213.6				
Project Location: STRAIGHT CREEK I-70				
Project Code:	Last Mod. Date	Subsect Sheets	Sheet No.	Total No. of Sheets
14527	01-12-05	17 of 28		

SET:
I-70 CM-MP 208.94
GPS PROJECT STATION
N: 663101.12
E: 856020.98
EL:9668.90



COLORADO DEPARTMENT OF TRANSPORTATION



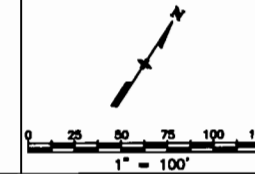
Region 1
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Aurora, CO 80011
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Survey Unit: Joseph P. Conway

Sheet Revisions

mm/yy	xxxx	xxx

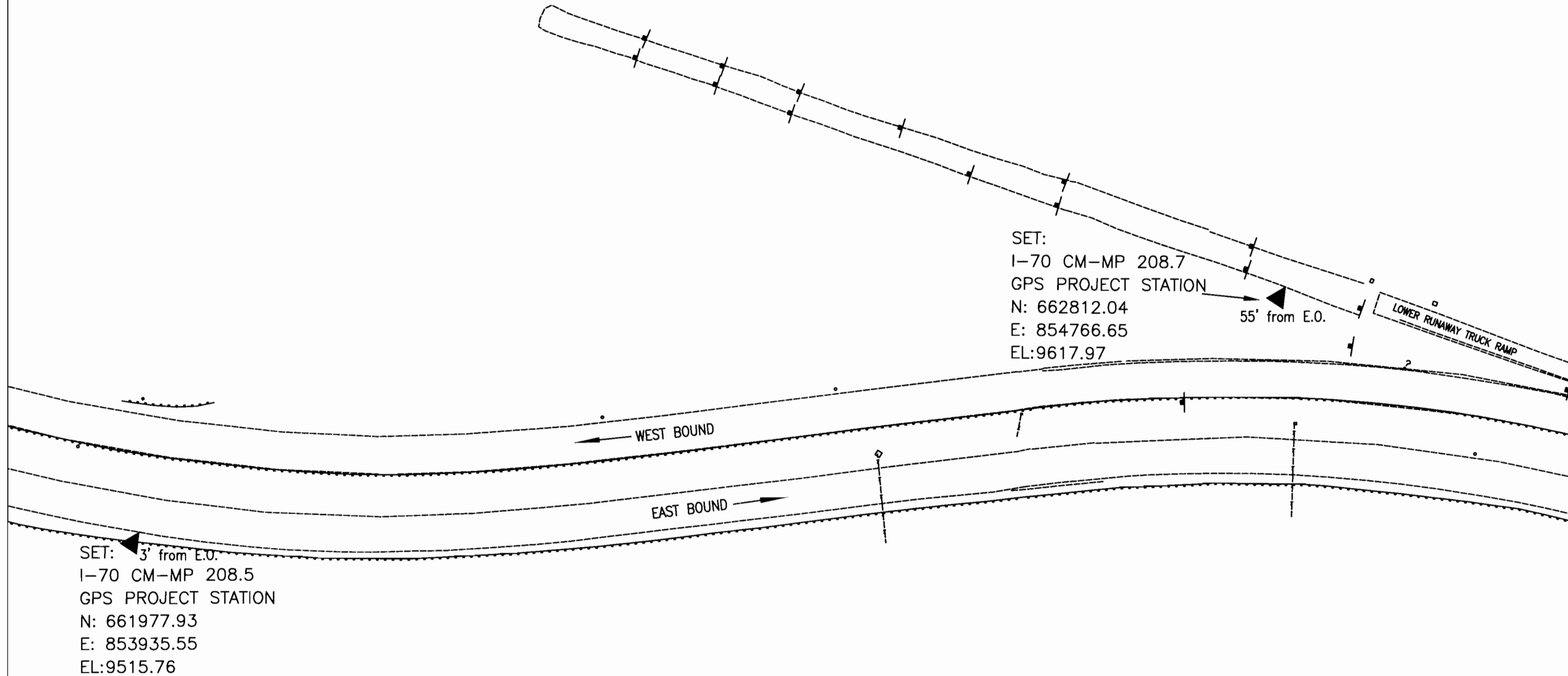
I-70 MP 206.0 TO MP 213.0
Located in:
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State of Colorado



Survey Control Diagram

Plan Sheet

Project Number: Proj # IM 0702-242				
Project Location: Proj Loc. I-70 MP 206.0 TO MP 213.6				
Project Location: STRAIGHT CREEK I-70				
Project Code:	Last Mod. Date	Subest Sheets	Sheet No.	Total No. of Sheets
14527	01-12-05	18 of 28		



COLORADO DEPARTMENT OF TRANSPORTATION



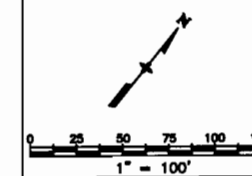
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Sheet Revisions

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I-70 MP 206.0 TO MP 213.0
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Survey Control Diagram

Plan Sheet

Project Number: Proj # IM 0702-242				
Project Location: Proj Loc. I-70 MP 206.0 TO MP 213.6				
Project Location: STRAIGHT CREEK I-70				
Project Code: 14527	Last Mod. Date: 01-12-05	Subsect Sheets: 19 of 26	Sheet No.:	Total No. of Sheets:

SET:
I-70 CM-MP 208.13
GPS PROJECT STATION
N: 661156.00
E: 852254.56
EL:9410.90

2.4' from E.O. (west bound)

WEST BOUND

EAST BOUND

SET:
I-70 CM-MP 208.3
GPS PROJECT STATION
N: 661777.36
E: 852905.30
EL:9466.63
32' from E.O.



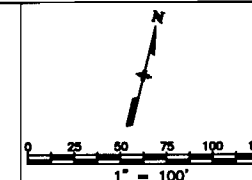
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Sheet Revisions

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Survey Control Diagram

Plan Sheet

Project Number: Proj #	IM 0702-242
Project Location: Proj Loc.	I-70 MP 206.0 TO MP 213.6
Project Location:	STRAIGHT CREEK I-70
Project Code:	14527
Last Mod. Date	01-12-05
Subsect Sheets	20 of 26
Sheet No.	
Total No. of Sheets	

FND:

I-70 CM-MP 207.7 "POWERS"

GPS PROJECT STATION

N: 660342.39

E: 850333.97

EL:9289.44 42' from E.O.

SET:

I-70 CM-MP 207.9

GPS PROJECT STATION

N: 660409.88

E: 851262.39

EL:9335.28

WEST BOUND

EAST BOUND

37' from E.O. (East bound)

COLORADO DEPARTMENT OF TRANSPORTATION



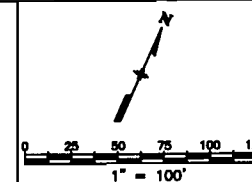
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Sheet Revisions

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Survey Control Diagram

Plan Sheet

Project Number: Proj # IM 0702-242				
Project Location: Proj Loc: I-70 MP 206.0 TO MP 213.6				
Project Location: STRAIGHT CREEK I-70				
Project Code:	Last Mod. Date	Subsect Sheets	Sheet No.	Total No. of Sheets
14527	01-12-05	21 of 26		

SET:
I-70 CM-MP 207.4
GPS PROJECT STATION
N: 659852.63
E: 848670.81
EL: 9174.37

33' from E.O.

SET:
I-70 CM-MP 207.57
GPS PROJECT STATION
N: 660216.87
E: 849569.40
EL: 9235.82

5.7' from E.O.

WEST BOUND

EAST BOUND



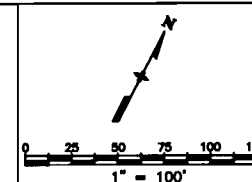
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Sheet Revisions

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Survey Control Diagram

Plan Sheet

Project Number: Proj #	IM 0702-242
Project Location: Proj Loc.	I-70 MP 206.0 TO MP 213.6
Project Location:	STRAIGHT CREEK I-70
Project Code:	14527
Last Mod. Date	01-12-05
Subest Sheets	22 of 26
Sheet No.	
Total No. of Sheets	

SET:
I-70 CM-MP 207.0
GPS PROJECT STATION
N: 659008.83
E: 847171.56
EL:9093.30

89' from E.O.

SET:
I-70 CM-MP 207.16
GPS PROJECT STATION
N: 659217.69
E: 847773.33
EL:9115.45

38' from E.O. (East bound)

WEST BOUND

EAST BOUND

COLORADO DEPARTMENT OF TRANSPORTATION



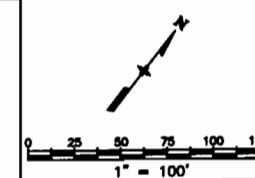
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Sheet Revisions

mm/yy	XXXXX	XXX

I-70 MP 206.0 TO MP 213.0
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Survey Control Diagram

Plan Sheet

25

Project Number: Proj #		IM 0702-242		
Project Location: Proj Loc.		I-70 MP 206.0 TO MP 213.6		
Project Location:		STRAIGHT CREEK I-70		
Project Code:	Last Mod. Date	Subest Sheets	Sheet No.	Total No. of Sheets
14527	01-12-05	23 of 26		

SET:

I-70 CM-MP 206.6

GPS PROJECT STATION

N: 657675.33

E: 845304.23

EL: 9025.52

53' from E.O.

WEST BOUND

EAST BOUND

33' from E.O.

SET:

I-70 CM-MP 206.82

GPS PROJECT STATION

N: 658163.22

E: 846241.14

EL: 9042.37

COLORADO DEPARTMENT OF TRANSPORTATION



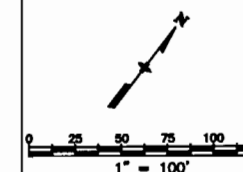
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Sheet Revisions

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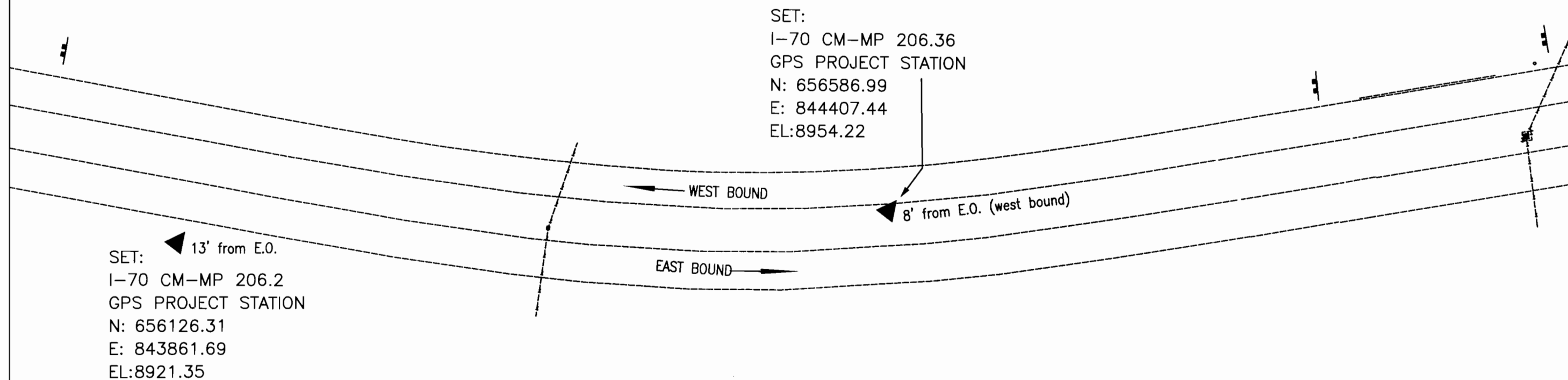
I-70 MP 206.0 TO MP 213.0
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Survey Control Diagram

Plan Sheet

Project Number: Proj #	IM 0702-242
Project Location: Proj Loc.	I-70 MP 206.0 TO MP 213.6
Project Location:	STRAIGHT CREEK I-70
Project Code:	14527
Last Mod. Date:	01-12-05
Subest Sheets:	24 of 26
Sheet No.	55
Total No. of Sheets	



COLORADO DEPARTMENT OF TRANSPORTATION



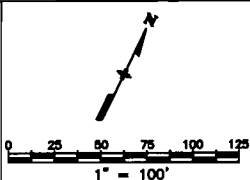
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Sheet Revisions

rev/yy	XXXXX	XXX

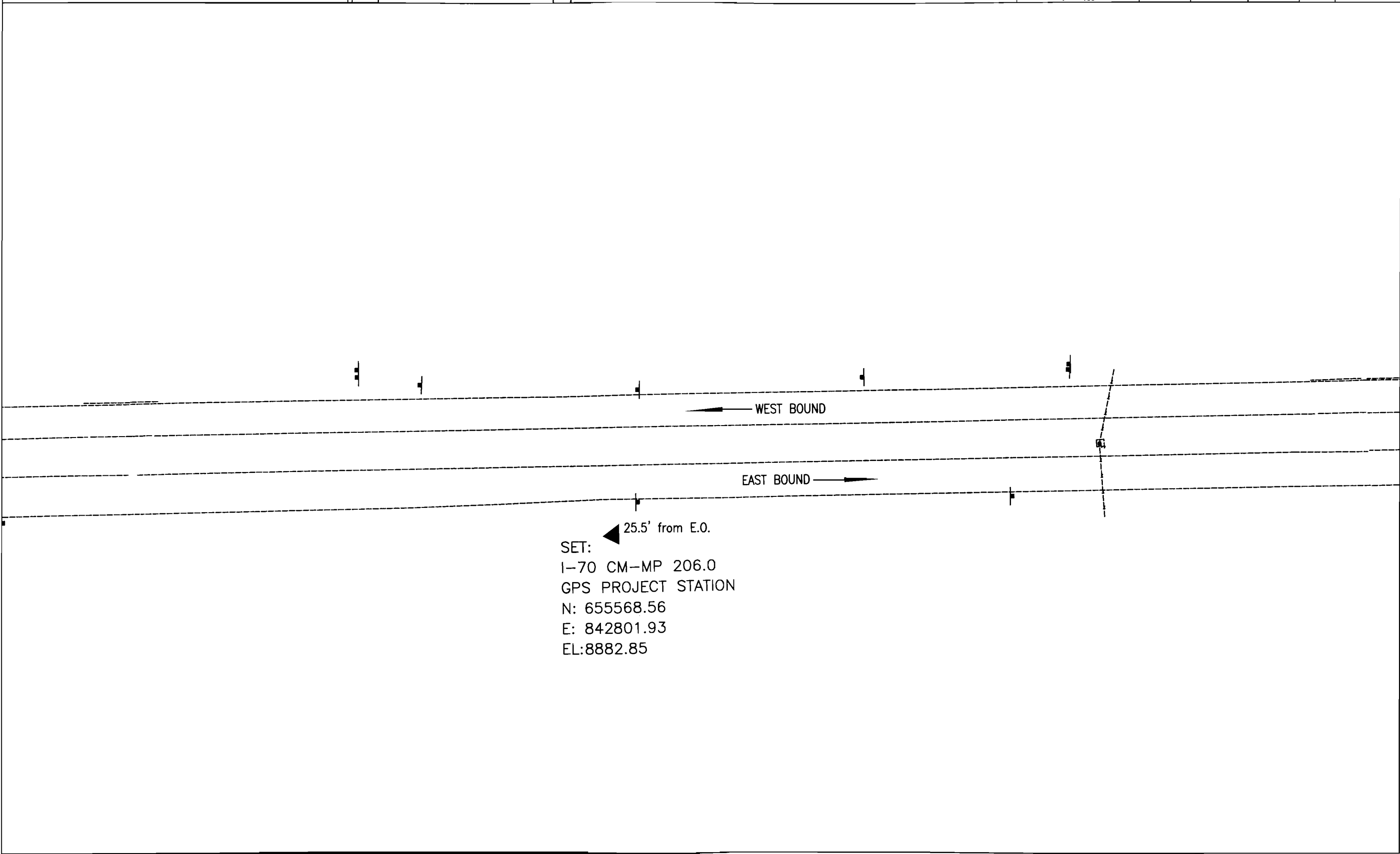
I-70 MP 206.0 TO MP 213.0
Located in:
section 19 Township 4 south Range 76 west
sections 4,5,6,7 Township 5 south Range 77 West
of the 6th Principal Meridian, in county of Summit
State of Colorado



Survey Control Diagram

Plan Sheet

Project Number: Proj # IM 0702-242				
Project Location: Proj Loc. I-70 MP 206.0 TO MP 213.6				
Project Location: STRAIGHT CREEK I-70				
Project Code:	Last Mod. Date	Subest Sheets	Sheet No.	Total No. of Sheets
14527	01-12-05	25 of 26		



datestamp

COLORADO DEPARTMENT OF TRANSPORTATION



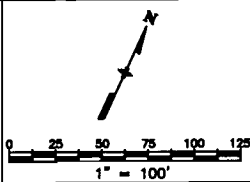
Region 1
Address: 18500 East Colfax Avenue
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9746

Survey Unit: Joseph P. Conway

Sheet Revisions

mm/yy	XXXXX	XXX

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14527	01-12-05	26 of 26	

