

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
I	COLO.	NH-IR(CX) 25-2(266)	3A	6
REVISIONS				

Control Survey Diagram

DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO
SURVEY CONTROL DIAGRAM

Project No. NH-IR(CX) 25-2(266)
 I-25 MP 179.7 to MP 185.17
 Sections 26, 27 and 35, T7S, R67W, 6th PM
 Sections 2, 11, 14 and 15, T8S, R67W, 6th PM
 DOUGLAS COUNTY, COLORADO
 Prepared by: Kelly Surveying Associates, Inc.

RIGHT OF WAY

Spit checked some numbers. Did not check all numbers.

PRIMARY CONTROL - CDOT GPS NAD 1983(1992)

STATION	LATITUDE	LONGITUDE	ZONE	CONVERGENCE	SC FACTOR	NORTHING (M)	EASTING (M)	ELEV (M)	NORTHING (FT)	EASTING (FT)	ELEV (FT)	NORTHING (FT)	EASTING (FT)
181.0	39°22'06.99832"	104°51'52.38573"	CO C	0 24 2.77	0.9999468	475420.584	969158.322	1897.70	1559775.698	3179646.925	6226.04	560318.99 .01	180754.46
181.7	39°22'43.08496"	104°51'41.52374"	CO C	0 24 9.62	0.9999476	476535.219	969410.490	1875.96	1563432.629	3180474.246	6154.71	563977.21	181582.07 .01
182.3	39°23'12.91866"	104°51'31.67137"	CO C	0 24 15.84	0.9999483	477456.870	969639.786	1891.85	1566456.413	3181226.528	6206.84	567000.04 1.00	182334.61 .01
182.4	39°23'15.62359"	104°51'33.40306"	CO C	0 24 14.75	0.9999484	477539.990	969597.760	1889.07	1566729.116	3181088.648	6197.72	567274.86 .02	182196.68 .01
182.5	39°23'23.57151"	104°51'34.23011"	CO C	0 24 14.22	0.9999486	477784.944	969576.241	1891.03	1567532.769	3181018.047	6204.15	568078.79	182126.06
183.8	39°24'04.30587"	104°51'38.11847"	CO C	0 24 11.77	0.9999496	479040.430	969474.357	1894.37	1571651.809	3180683.783	6215.11	572199.28	181791.67
184.1	39°24'02.37781"	104°51'51.21049"	CO C	0 24 3.52	0.9999495	478978.775	969161.552	1886.08	1571449.529	3179657.522	6187.91	571996.93	180765.06
N393	39°22'45.84162"	104°51'32.33317"	CO C	0 24 15.42	0.9999477	476621.775	969629.842	1896.51	1563716.605	3181193.903	6222.13	564261.29	182301.98
X393	39°20'08.66297"	104°52'35.33576"	CO C	0 23 35.69	0.9999443	471764.342	968155.330	1937.03	1547780.177	3176356.275	6355.07	548319.26	177462.65

104 51 32.33317

MODIFIED COORDINATES

MODIFIED COLORADO STATE PLANE COORDINATES (FT)

POINT	NORTHING	EASTING	ELEVATION
CM-MP 179.7	553460.43	178852.49	6281.44
CM-MP 179.9	554668.14	179172.17	6287.08
CM-MP 180.2	555576.10	179645.81	6290.20
CM-MP 180.4	556681.46	179999.28	6271.78
CM-MP 180.6	557759.07	180216.72	6244.23
CM-MP 180.7	558543.62	179933.88	6247.13
CM-MP 180.9	559799.95	180398.98	6233.19
CM-MP 181.05	560583.53	180885.74	6224.62
CM-MP 181.2	561626.87	181071.34	6180.64
CM-MP 181.5	562782.05	181333.00	6165.47
CM-MP 181.8	564463.78 .05	181965.75 .08	6171.51
CM-MP 182.1	565569.84 .03	181940.45 .01	6154.18
CM-MP 182.2	566418.54	181889.76 .02	6174.31
CM-MP 182.7	569005.69	182270.39	6198.37
CM-MP 182.9	569927.41	182136.45	6177.04
CM-MP 183.1	570968.84	182110.55	6176.74
CM-MP 183.3	571968.67	181565.15	6212.78
CM-MP 183.5	573028.62	181153.80	6175.68
CM-MP 183.7	574199.76	180892.38	6197.04
CM-MP 183.9	575378.28	180410.13	6187.86
CM-MP 184.0	576287.98	179529.10	6175.80
CM-MP 184.2	577477.55	178871.10	6152.52
CM-MP 184.3	572024.25	179563.94	6125.11
CM-MP 184.5	578753.52	178527.52	6194.60
CM-MP 185.17	575433.37	178187.48	6092.46

NOTES:

- THIS CONTROL SURVEY IS NOT A COMPLETE BOUNDARY SURVEY OR RIGHT-OF-WAY SURVEY AND IS PREPARED FOR CDOT PURPOSES ONLY.
- NO WARRANTY IS IMPLIED OR EXPRESSED UNLESS THIS SHEET BEARS THE ORIGINAL SIGNATURE AND SEAL OF REGISTERED LAND SURVEYOR NAMED.
- FIELD SURVEY CONTROL PRECISION MEETS OR EXCEEDS CDOT TYPE B SURVEY REQUIREMENTS.
- ALL COORDINATES ARE MODIFIED COLORADO STATE PLANE COORDINATES 1983(1992), CENTRAL ZONE. BASED ON A PROJECT COMBINED MEAN FACTOR OF 0.9996518010. CALCULATIONS ARE BASED ON THE U.S. SURVEY FOOT.
- FOUND SECTION CORNERS LISTED ARE FOR REFERENCE ONLY AND IN NO WAY SHOULD BE RELIED UPON. LISTED CORNERS WERE INTENDED TO ASSIST IN CONVERSION OF HIGHWAY PLAN BASED ON NAD 1927 TO CURRENT DATUM. ???
- VERTICAL DATUM IS BASED ON USGS BENCHMARK L412 WITH AN ELEVATION OF 5315.71 FEET (1929 DATUM).

BASIS OF BEARINGS:

BASIS OF BEARINGS IS GRID NORTH AS BASED UPON COLORADO STATE PLANE COORDINATE SYSTEM OF 1983(1992), CENTRAL ZONE. BETWEEN GPS CONTROL POINT 182.4 AND 182.5 BEARS: N05°01'14"W. CONTROL POINT 182.4 - CDOH 3-1/2" ALUMINUM DISK SET FLUSH WITH THE GROUND SURFACE. CONTROL POINT 182.5 - CDOH 3-1/2" ALUMINUM DISK SET FLUSH WITH THE GROUND SURFACE.



- ▲ CM-MP - Control Monuments are a set CDOH type 2 monument, a 3-1/2" dia. aluminum disk (as shown)
- CM-MP - Control Monuments are a found CDOH type 2 monument, a 3-1/2" dia. aluminum disk (URS)
- RIGHT-OF-WAY Markers are a found CDOH brass cap in concrete

Show Section Corner Coordinates either in a table or on the line sheets. Define coordinate datum eg. Modified coordinates, state plane coordinates, etc. in a note if listed on line sheets.

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.

Need completed filing information

FILING CERTIFICATE
 DEPOSITED THIS _____ DAY OF _____, 19____
 AT _____ M., IN BOOK _____ OF THE
 COUNTY SURVEYOR'S LAND SURVEY/RIGHT-OF-WAY SURVEYS AT
 PAGE _____, RECEPTION NUMBER _____

 COUNTY SURVEYOR

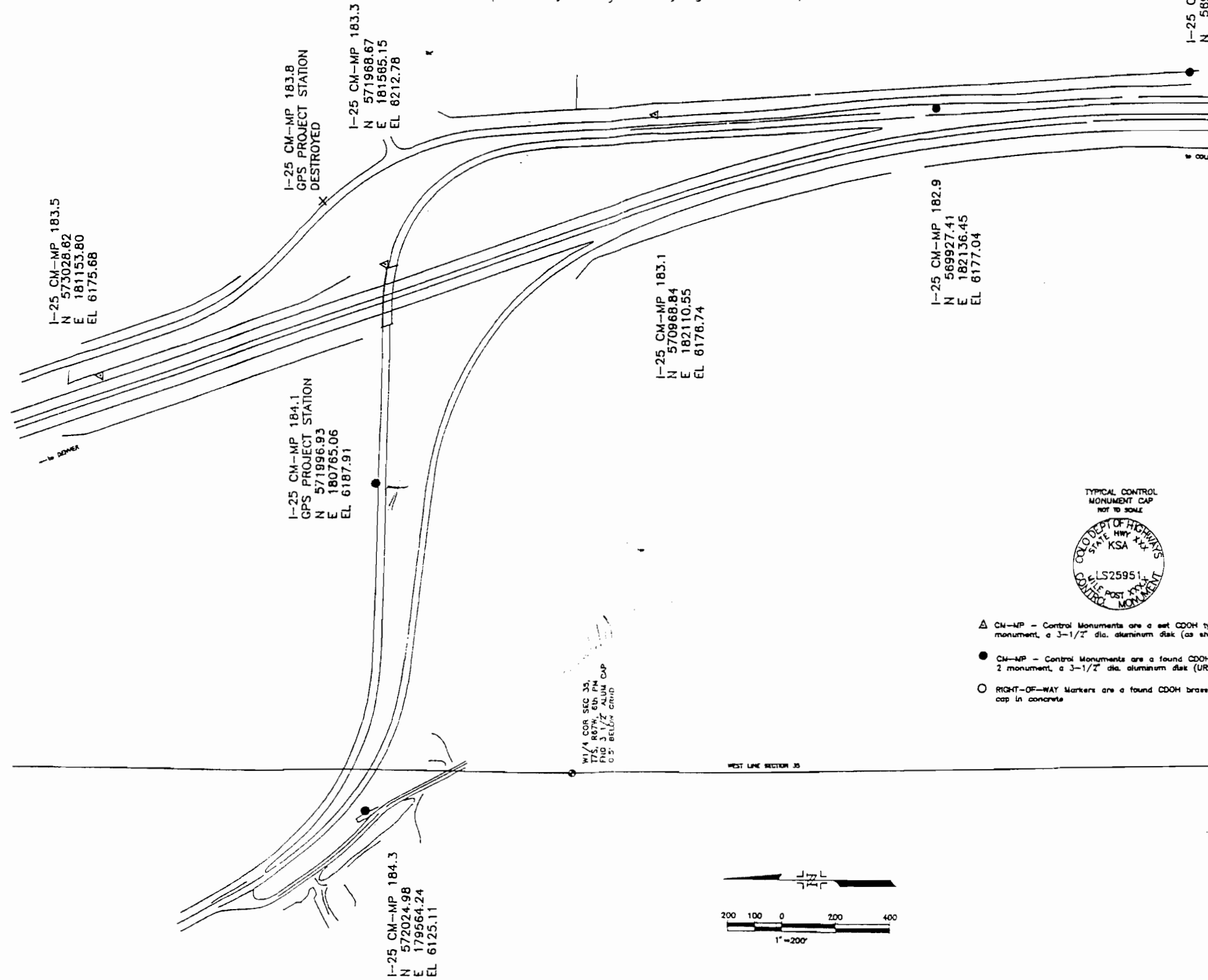
 BY DEPUTY COUNTY SURVEYOR

Need signed copy for files

SURVEYOR CERTIFICATE (FIELD)
 CONTROL SURVEY AND MONUMENTATION WAS DONE UNDER MY SUPERVISION AND CHECKING.
 NAME _____ P.L.S. NO. 25951
 DATE _____

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 DOUGLAS COUNTY, COLORADO
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I-25 CM-MP 183.5
 N 573028.62
 E 181153.80
 EL 6175.68

I-25 CM-MP 183.8
 GPS PROJECT STATION
 DESTROYED

I-25 CM-MP 183.3
 N 571968.67
 E 181965.15
 EL 6212.78

I-25 CM-MP 184.1
 GPS PROJECT STATION

I-25 CM-MP 184.3
 N 572024.98
 E 179564.24
 EL 6125.11

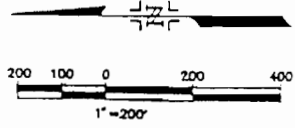
I-25 CM-MP 183.1
 N 570968.84
 E 182110.55
 EL 6176.74

I-25 CM-MP 182.9
 N 569927.41
 E 182136.45
 EL 6177.04

I-25 CM-MP 182.7
 N 569005.65



- △ CM-MP - Control Monuments are a set CDOT by monument, a 3-1/2" dia. aluminum disk (as shown)
- CM-MP - Control Monuments are a found CDOT by 2 monument, a 3-1/2" dia. aluminum disk (URS)
- RIGHT-OF-WAY Markers are a found CDOT brass cap in concrete

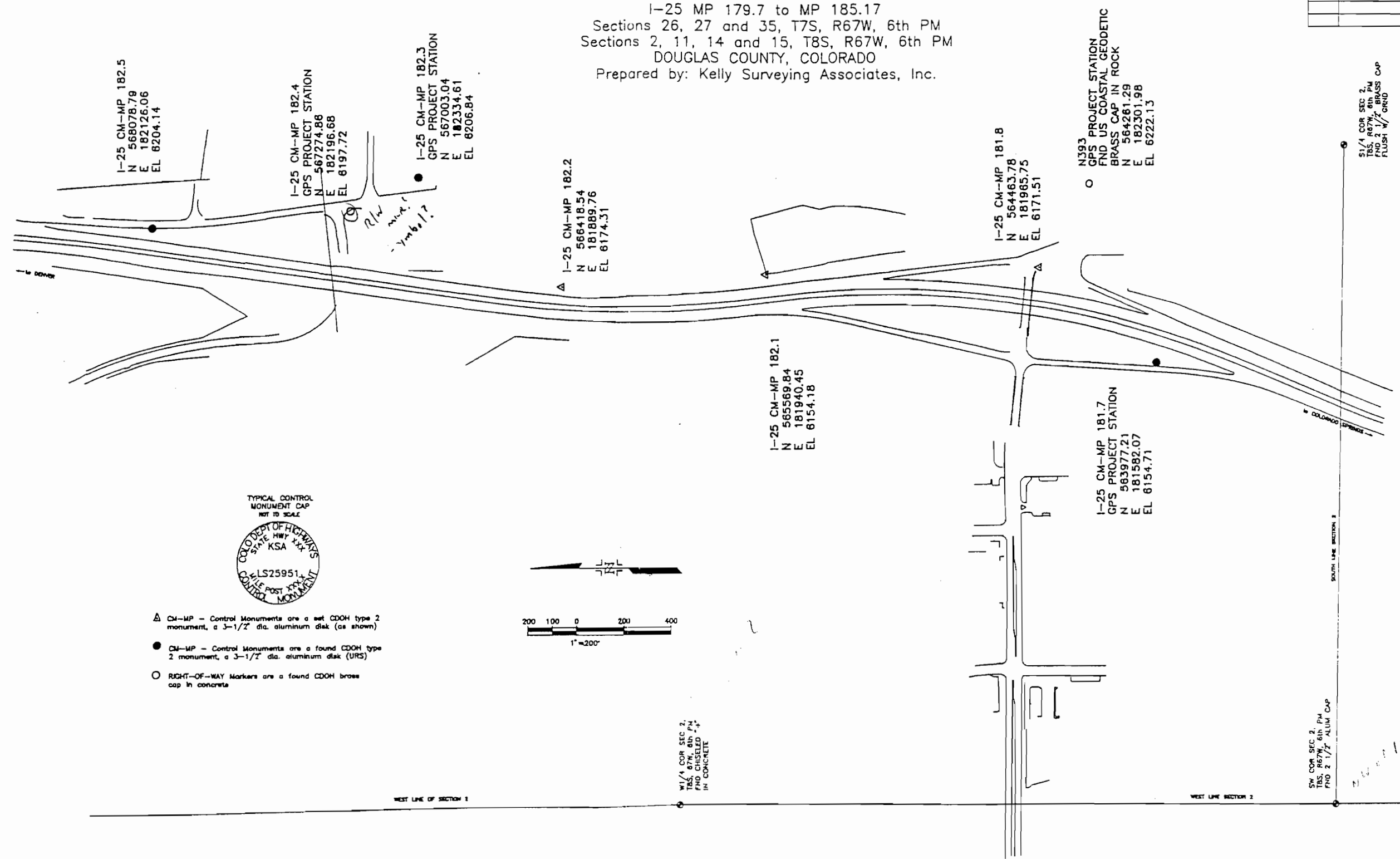


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REVISIONS	

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I-25 CM-MP 182.5
 N 568078.79
 E 182126.06
 EL 6204.14

I-25 CM-MP 182.4
 GPS PROJECT STATION
 N 567274.86
 E 182196.68
 EL 6197.72

I-25 CM-MP 182.3
 GPS PROJECT STATION
 N 567003.04
 E 182334.61
 EL 6206.84

I-25 CM-MP 182.2
 N 566418.54
 E 181889.76
 EL 6174.31

I-25 CM-MP 182.1
 N 565569.84
 E 181940.45
 EL 6154.18

I-25 CM-MP 181.8
 N 564463.78
 E 181965.75
 EL 6171.51

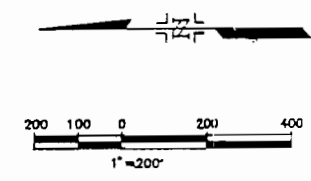
N393
 GPS PROJECT STATION
 FND US COASTAL GEODETIC
 BRASS CAP IN ROCK
 N 564261.29
 E 182301.98
 EL 6222.13

I-25 CM-MP 181.7
 GPS PROJECT STATION
 N 563977.21
 E 181582.07
 EL 6154.71

SW COR SEC 2,
 T8S, R67W, 6th PM
 FND 2 1/2" BRASS CAP
 FLUSH W/ GROUND

SW COR SEC 2,
 T8S, R67W, 6th PM
 FND 2 1/2" ALUM CAP

- TYPICAL CONTROL MONUMENT CAP NOT TO SCALE
- △ CM-MP - Control Monuments are a set CDON type 2 monument, a 3-1/2" dia. aluminum disk (as shown)
- CM-MP - Control Monuments are a found CDON type 2 monument, a 3-1/2" dia. aluminum disk (URS)
- RIGHT-OF-WAY Markers are a found CDON brass cap in concrete



WEST LINE OF SECTION 1

WEST LINE SECTION 2

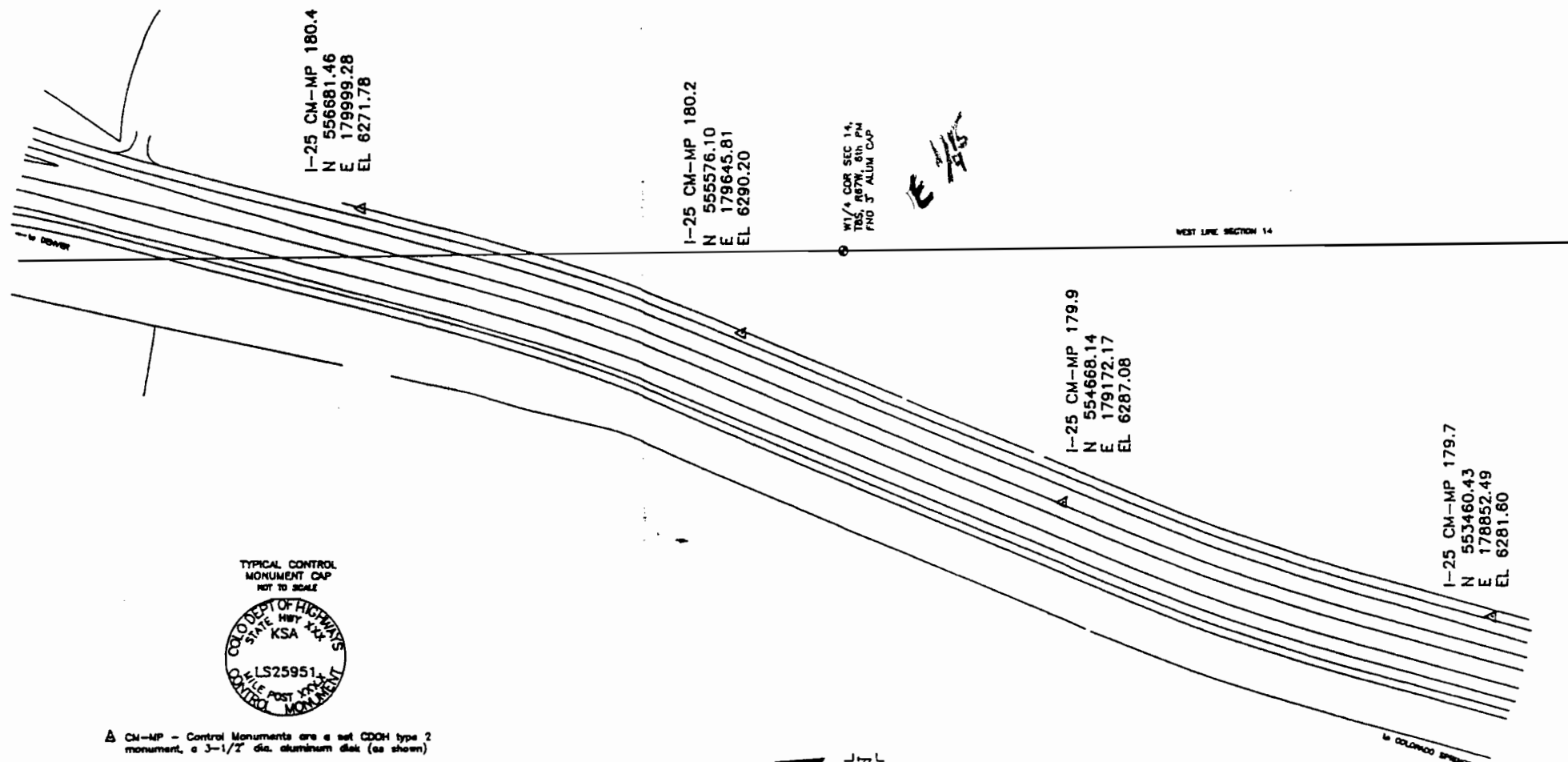
W1/4 COR SEC 2,
 T8S, R67W, 6th PM
 FND CHISELED "X"
 IN CONCRETE

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I-25 CM-MP 180.4
 N 556681.46
 E 179999.28
 EL 6271.78

I-25 CM-MP 180.2
 N 555576.10
 E 179645.81
 EL 6290.20

W1/4 COR SEC 14,
 T8S, R67W, 6th PM
 PND 3" ALUM CAP

E 1/4

I-25 CM-MP 179.9
 N 554668.14
 E 179172.17
 EL 6287.08

I-25 CM-MP 179.7
 N 553460.43
 E 178852.49
 EL 6281.80



- △ CM-MP - Control Monuments are a set CDQH type 2 monument, a 3-1/2" dia. aluminum disk (as shown)
- CM-MP - Control Monuments are a found CDQH type 2 monument, a 3-1/2" dia. aluminum disk (URS)
- RIGHT-OF-WAY Markers are a found CDQH brass cap in concrete

