



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

Project IM 0252-278
Interstate 25 MP 167.421 to MP 173.804
Sections 16, 21, 22, 27, 34, T. 9 S., R. 67 W., 6th P.M.
Sections 2, 3, 11, 14, T. 10 S., R. 67 W., 6th P.M.
DOUGLAS COUNTY, COLORADO

COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	GEODETIC COORDINATES NAD-83 (N2) (CHARN)		ELEVATION (NAVD 83)	MAPPING ANGLE	SCALE	NAD 83 (N2) ZONE 0502		PROJECT COORDINATES		ELEV (ft)	DESCRIPTION
	LATITUDE (N)	LONGITUDE (W)				NORTHING (m)	EASTING (m)	NORTH (ft)	EAST (ft)		
SH 18 CM-MP 0.0 GPS PROJECT STATION	39°14'33.2248"	104°52'59.3319"	2024.673	0°23'20.552"	0.999939951	461416.631	987550.931	514411.85	175919.41	6642.62	CDOT Type 2 Control Monument
SH 18 CM-MP 0.2 GPS PROJECT STATION	39°14'33.7285"	104°52'47.0495"	2024.287	0°23'28.298"	0.999939957	461434.167	987945.340	514499.40	176885.88	6641.35	CDOT Type 2 Control Monument
I-25 CM-MP 167.2 GPS PROJECT STATION	39°11'02.23043"	104°51'02.44518"	2106.163	0°24'34.271"	0.999939954	454929.927	970500.202	493121.89	165270.86	6916.61	CDOT Type 2 Control Monument
I-25 CM-MP 169.6 GPS PROJECT STATION	39°12'48.78593"	104°52'19.03533"	2080.755	0°23'45.966"	0.999937832	458202.752	968639.449	503863.60	179163.82	6826.61	CDOT Type 2 Control Monument
I-25 CM-MP 171.9 GPS PROJECT STATION	39°12'40.99338"	104°52'44.34172"	2024.850	0°23'30.066"	0.999939044	461658.633	988008.738	515206.12	177093.76	6843.23	CDOT Type 2 Control Monument
I-25 CM-MP 172.1 GPS PROJECT STATION	39°14'43.90231"	104°52'48.89076"	2024.928	0°23'27.137"	0.999939090	461747.589	987899.050	515486.06	176733.76	6840.57	CDOT Type 2 Control Monument
I-25 CM-MP 172.3 GPS PROJECT STATION	39°14'54.43180"	104°53'00.25100"	2015.274	0°23'19.977"	0.999938209	462070.429	987624.446	516357.67	176839.47	6811.81	CDOT Type 2 Control Monument
I-25 CM-MP 172.5 GPS PROJECT STATION	39°15'04.78446"	104°53'10.71880"	2014.828	0°23'13.370"	0.999938138	462387.966	987371.318	517599.86	176201.70	6810.66	CDOT Type 2 Control Monument
I-25 CM-MP 172.7 GPS PROJECT STATION	39°15'16.07435"	104°53'19.08167"	2008.492	0°23'08.096"	0.999939484	462734.753	987168.472	518738.05	174335.94	6589.55	CDOT Type 2 Control Monument
I-25 CM-MP 173.0 GPS PROJECT STATION	39°15'25.65082"	104°53'26.28438"	2007.086	0°23'03.553"	0.999939609	463028.981	986993.809	519703.43	173767.68	6584.90	CDOT Type 2 Control Monument
I-25 CM-MP 173.2 GPS PROJECT STATION	39°15'37.29317"	104°53'34.63251"	2005.908	0°22'58.288"	0.999939764	463386.566	986791.276	520877.36	173087.84	6581.05	CDOT Type 2 Control Monument
I-25 CM-MP 173.5 GPS PROJECT STATION	39°15'47.54163"	104°53'40.61383"	2002.956	0°22'54.516"	0.999939903	463701.636	986645.783	521811.44	172820.42	6571.32	CDOT Type 2 Control Monument
I-25 CM-MP 173.7 GPS PROJECT STATION	39°15'57.19291"	104°53'45.92764"	1996.479	0°22'51.164"	0.999940036	463998.400	986516.424	522885.45	172195.85	6550.40	CDOT Type 2 Control Monument
I-25 CM-MP 173.9 GPS PROJECT STATION	39°16'10.47635"	104°53'46.97555"	1992.330	0°22'50.503"	0.999940223	464407.848	986488.584	524229.30	172104.46	6536.47	CDOT Type 2 Control Monument
A 393 1983 GPS CHARN-DENSIF. STATION	39°11'13.63018"	104°51'03.18035"	2103.767	0°24'33.620"	0.999937035	455281.325	970480.527	484275.21	165206.40	6902.11	Stainless Steel Rod Encased in Pipe
AS487 1983 GPS CHARN-DENSIF. STATION	39°14'38.89469"	104°52'42.30800"	2023.121	0°23'31.288"	0.999939019	461593.171	988037.852	514991.27	177256.29	6837.52	USGS 3 1/2" Brass Cap
Q 393 1983 NGS BM (GPS)	39°12'01.10589"	104°51'23.58411"	2082.690	0°24'20.651"	0.999937406	456741.800	969680.427	499368.62	163525.24	6832.98	Stainless Steel Rod Encased in Pipe
Q 398 1983 NGS BM (GPS)	39°14'11.47026"	104°52'37.43160"	2039.079	0°23'34.364"	0.999936697	460749.383	968180.689	512221.88	177658.06	6889.68	Stainless Steel Rod Encased in Pipe
I-25 CM-MP 167.6	39°11'22.28545"	104°51'03.82174"	2104.145	0°24'33.529"	0.999937099	455548.139	970487.548	495150.92	165163.81	6903.33	CDOT Type 2 Control Monument
I-25 CM-MP 167.8	39°11'32.62318"	104°51'02.48980"	2103.538	0°24'34.243"	0.999937177	455687.107	970492.430	495197.80	165245.47	6901.27	CDOT Type 2 Control Monument
I-25 CM-MP 168.0	39°11'41.50674"	104°51'10.72614"	2102.129	0°24'29.046"	0.999937246	456139.630	970292.847	497092.24	164590.42	6896.82	CDOT Type 2 Control Monument
I-25 CM-MP 168.1	39°11'49.34415"	104°51'11.86705"	2104.254	0°24'28.329"	0.999937309	456381.109	970263.751	497864.80	164484.92	6903.79	CDOT Type 2 Control Monument
I-25 CM-MP 168.7	39°12'13.69965"	104°51'27.41901"	2089.809	0°24'18.520"	0.999937513	457128.562	969885.294	500338.01	163252.60	6856.63	CDOT Type 2 Control Monument
I-25 CM-MP 168.8	39°12'18.27128"	104°51'35.38885"	2077.090	0°24'13.489"	0.999937553	457289.107	969692.893	500799.29	162911.32	6814.56	CDOT Type 2 Control Monument
I-25 CM-MP 169.0	39°12'28.20953"	104°51'44.54703"	2081.689	0°24'07.721"	0.999937641	457574.020	969471.338	501800.04	161984.15	6829.63	CDOT Type 2 Control Monument
I-25 CM-MP 169.2	39°12'32.52393"	104°51'52.82319"	2071.019	0°23'59.345"	0.999937681	457704.630	969151.792	502229.37	160845.37	6794.67	CDOT Type 2 Control Monument
I-25 CM-MP 169.4	39°12'41.29134"	104°52'06.50105"	2072.244	0°23'53.672"	0.999937761	457973.732	968894.132	503111.94	160155.84	6788.63	CDOT Type 2 Control Monument
I-25 CM-MP 169.5	39°12'42.68317"	104°52'14.85286"	2073.520	0°23'46.541"	0.999937774	458015.244	968738.683	503248.18	159469.51	6802.86	CDOT Type 2 Control Monument
I-25 CM-MP 169.8	39°12'54.88515"	104°52'30.70114"	2065.255	0°23'38.609"	0.999937890	458388.898	968358.312	504474.55	158241.10	6775.88	CDOT Type 2 Control Monument
I-25 CM-MP 170.0	39°13'03.07543"	104°52'39.27846"	2071.481	0°23'33.189"	0.999937970	458640.043	968150.831	505298.63	157560.13	6796.42	CDOT Type 2 Control Monument
I-25 CM-MP 170.1	39°13'08.48407"	104°52'42.55713"	2075.084	0°23'31.131"	0.999938023	458806.286	968071.044	505844.46	157288.26	6806.28	CDOT Type 2 Control Monument
I-25 CM-MP 170.3	39°13'16.57216"	104°52'42.51498"	2076.694	0°23'31.155"	0.999938105	459055.699	968070.349	506663.05	157285.88	6820.17	CDOT Type 2 Control Monument
I-25 CM-MP 170.4	39°13'24.10443"	104°52'45.05577"	2075.320	0°23'29.555"	0.999938182	459287.548	968007.819	507424.00	157090.75	6809.06	CDOT Type 2 Control Monument
I-25 CM-MP 170.6	39°13'31.84391"	104°52'40.95747"	2068.500	0°23'32.140"	0.999938262	459526.877	968104.483	508209.50	157408.01	6786.72	CDOT Type 2 Control Monument
I-25 CM-MP 170.8	39°13'42.24797"	104°52'39.83550"	2060.069	0°23'32.848"	0.999938373	459847.283	968129.194	509283.07	157489.11	6759.16	CDOT Type 2 Control Monument
I-25 CM-MP 171.0	39°13'53.50285"	104°52'40.31285"	2048.426	0°23'32.421"	0.999938462	460194.852	968110.581	510401.76	157429.02	6715.84	CDOT Type 2 Control Monument
I-25 CM-MP 171.2	39°14'03.48839"	104°52'38.88548"	2046.895	0°23'34.835"	0.999938566	460503.375	968020.251	511414.46	157722.33	6718.43	CDOT Type 2 Control Monument
I-25 CM-MP 171.6	39°14'25.04713"	104°52'40.35931"	2027.738	0°23'32.517"	0.999938654	461187.563	968107.594	513594.38	157748.22	6652.73	CDOT Type 2 Control Monument
I-25 CM-MP 171.8	39°14'33.28405"	104°52'38.76030"	2025.867	0°23'33.526"	0.999938951	461420.698	968144.203	514425.85	157518.37	6646.57	CDOT Type 2 Control Monument
NW COR. SEC 27, T.9S., R.67W., 6th P.M.								515690.80	175228.58		3" Brass Cap US 2890

* Surveyed by TriConsultants Inc. from 3-12-1993 to 11-12-1993. Shown here for information only. CDOT recalculated coordinates using angles and distances measured by TriConsultants Inc.

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Greenland - North

BASIS OF BEARINGS: Bearings used in the calculation of coordinates are based on a grid bearing of S 2°33'08" E from I-25 CM-MP 173.7 to I-25 CM-MP 173.5 as obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN).

BASIS OF ELEVATIONS: Project elevations are based on National Geodetic Survey (NGS) benchmarks using NAVD '88 elevations for benchmarks A 393 1983, B 393 1983, P 393 1983, C 393 1983, Q 398 1983, R 396 1983, S 396 1983, and T 398 1983 as obtained from a first order, second class Geodetic Leveling line Accession No. L24783 leveled in 1984.

COORDINATE DATUM: Project Coordinates are modified Colorado State Plane Central Zone NAD '83 coordinates. State Plane coordinates were modified to a mean project elevation of 2052.014m. The combined elevation/scale correction factor used to modify the coordinates was 1.000383653. Project Coordinates were truncated by 1,000,000 in the Northing and 3,000,000 in the Easting after conversion of meters to feet. The CHARN is based on the NAD-83 datum.

NOTE: Refer to M-629-1 SURVEY MONUMENTS of the STANDARD PLANS, COLORADO DEPARTMENT OF TRANSPORTATION, M & S STANDARDS NOVEMBER 1992 for survey monument descriptions. Refer to M-100-1 STANDARD SYMBOLS of the STANDARD PLANS, COLORADO DEPARTMENT OF TRANSPORTATION, M & S STANDARDS NOVEMBER 1992 for standard symbol definitions.

NOTE: This control survey is for the use of Colorado Department of Transportation personnel. The survey is not a complete Boundary Survey. 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 restrictions, as described in the instruments of record, were not included in this control survey.

NOTE: 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.

SURVEYORS STATEMENT: I, Joseph P. Conway, a Professional Land Surveyor in the State of Colorado, hereby state that this Control Survey Diagram was prepared under my supervision this 7 day of April 1995, from a field survey performed under my supervision from December 20, 1994 to March 31, 1995, and checking 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 Type B Survey and this topographic survey, as shown, meets the minimum horizontal control tolerances of a Type D Survey as listed in the Colorado Department of Transportation Survey Manual, Chapter Three (Revised 4/29/92).

Joseph P. Conway L.S. 25618

5-9-95
Signed

To H. Alvst. H 4-10-95



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DOUGLAS COUNTY, COLORADO

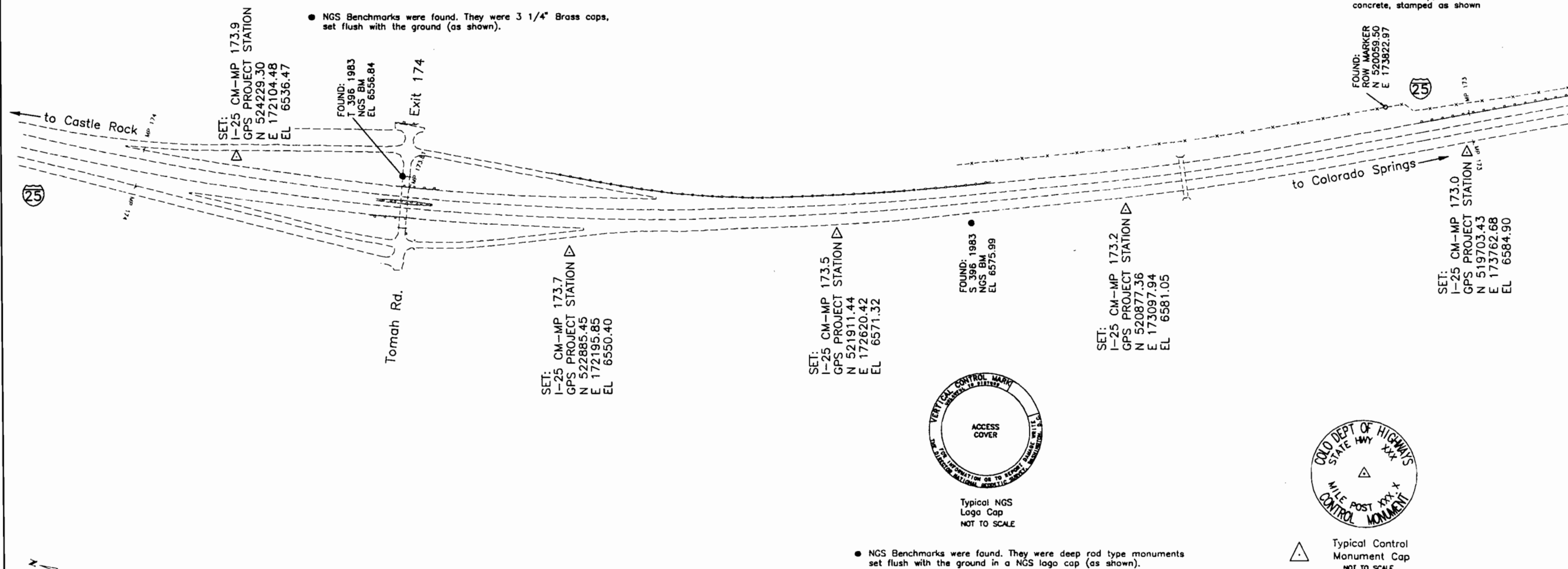


Typical NGS
Benchmark Cap
NOT TO SCALE



NOT TO SCALE

O ROW MARKER - 3" dia. Brass cap, set in concrete, stamped as shown



2 / 2 ORIGINAL SCALE 1" = 200'

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



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

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DOUGLAS COUNTY, COLORADO

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NUMBER
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Greenland - North



Typical NGS
Benchmark Cap
NOT TO SCALE

● NGS Benchmarks were found. They were 3 1/4" Brass caps,
set flush with the ground (as shown).



CHARN GPS DENSIFICATION STATION
NOT TO SCALE

CHARN-DENSIF. STATION - Found 3 1/4" Brass cap
(stamped as shown)

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to Castle Rock

SET:
I-25 CM-MP 172.7
GPS PROJECT STATION
N 518738.05
E 174335.94
EL 6589.55

SET:
I-25 CM-MP 172.5
GPS PROJECT STATION
N 517599.86
E 175001.70
EL 6610.66

Exit 173

FOUND:
R 396 1983
NGS BM
EL 6517.70

SET:
I-25 CM-MP 172.3
GPS PROJECT STATION
N 516557.67
E 175832.47
EL 6611.81

To Larkspur

Note: See sheet 8 for traverse details

SET:
I-25 CM-MP 172.1
GPS PROJECT STATION
N 515498.08
E 176733.76
EL 6640.57

SET:
I-25 CM-MP 171.9
GPS PROJECT STATION
N 515206.12
E 177093.76
EL 6643.25

FOUND:
ASHBY 1993 GPS
CHARN-DENSIF. STATION
N 514991.27
E 177255.29
EL 6637.52

Exit 172

SET:
SH 18 CM-MP 0.2
GPS PROJECT STATION
N 514469.40
E 176885.68
EL 6641.35

FOUND:
Survey Cap on
rebar, Cap illegible

SET:
SH 18 CM-MP 0.0
GPS PROJECT STATION
N 514411.85
E 175919.41
EL 6642.62

NW COR. SEC. 27
T.9 S., R.67 W., 6th P.M.
N 515690.80
E 175228.58
Found: 3" Brass Cap
LS 2690 (stamped as shown)



NOT TO SCALE



Typical Control
Monument Cap
NOT TO SCALE

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

3/8 ORIGINAL SCALE 1"=200'

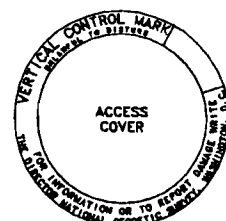


DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

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DOUGLAS COUNTY, COLORADO

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Greenland - North



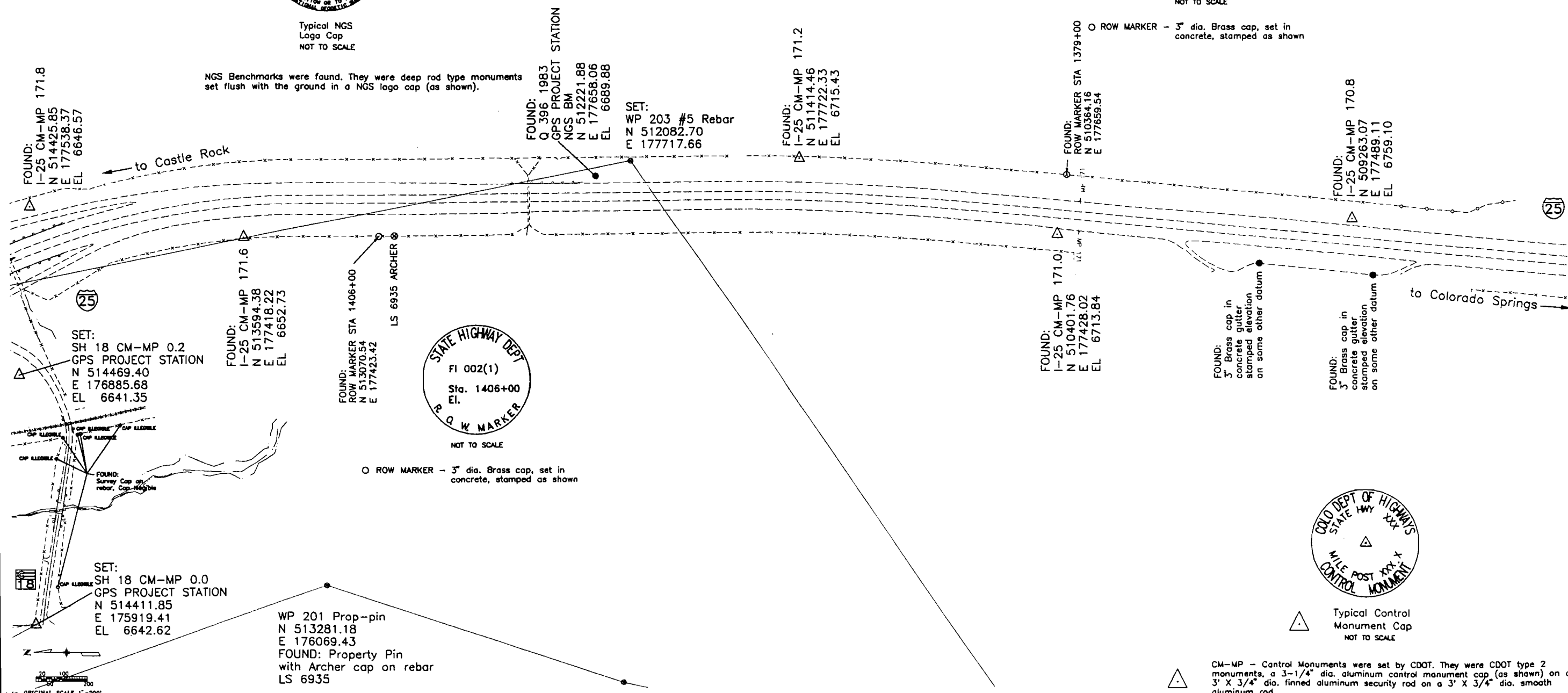
Typical NGS
Logo Cap
NOT TO SCALE



NOT TO SCALE

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Typical Control
Monument Cap
NOT TO SCALE

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



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Greenland - North



Typical NGS
Logo Cap
NOT TO SCALE



Typical NGS
Logo Cap
NOT TO SCALE



Typical NGS
Benchmark Cap
NOT TO SCALE



NOT TO SCALE



Typical Control
Monument Cap
NOT TO SCALE

● NGS Benchmarks were found. They were deep rod type monuments set flush with the ground in a NGS logo cap (as shown).

● NGS Benchmarks were found. They were 3 1/4" Brass caps, set flush with the ground (as shown).

○ ROW MARKER - 3" dia. Brass cap, set in concrete, stamped as shown

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

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ORIGINAL SCALE 1"=200'



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Greenland - North



NOT TO SCALE

○ ROW MARKER - 3" dia. Brass cap, set in concrete, stamped as shown



to Colorado Springs

to Castle Rock

FOUND:
I-25 CM-MP 169.4
N 503111.94
E 180155.94
EL 6798.68

FOUND:
ROW MARKER STA 1289+00
N 502585.68
E 180364.84

FOUND:
I-25 CM-MP 169.2
N 502229.37
E 180845.37
EL 6794.67

FOUND:
I-25 CM-MP 169.0
N 501800.04
E 181894.15
EL 6829.63

FOUND:
I-25 CM-MP 168.8
N 500799.29
E 182621.32
EL 6814.56

FOUND:
I-25 CM-MP 168.7
N 500338.01
E 183252.80
EL 6856.63

FOUND:
ROW MARKER STA 1254+00
N 499915.37
E 183471.10



NOT TO SCALE

○ ROW MARKER - 3" dia. Brass cap, set in concrete, stamped as shown



Typical Control Monument Cap
NOT TO SCALE



Typical NGS Logo Cap
NOT TO SCALE

FOUND:
Q 393 1983
GPS PROJECT STATION
NGS BM
N 499068.62
E 183565.24
EL 6832.96

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

● NGS Benchmarks were found. They were deep rod type monuments set flush with the ground in a NGS logo cap (as shown).

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DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO
CONTROL SURVEY DIAGRAM

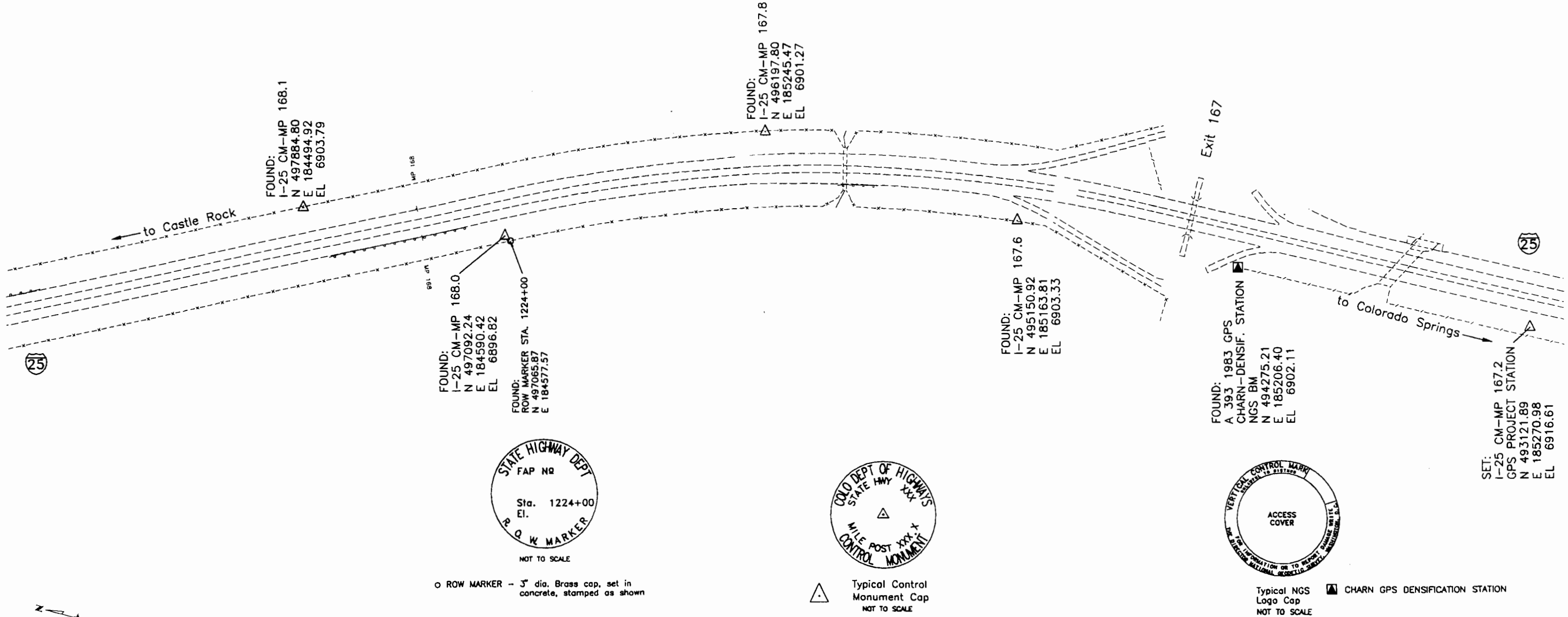
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o ROW MARKER - 3" dia. Brass cap, set in concrete, stamped as shown

Typical Control Monument Cap
NOT TO SCALE

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

NGS Benchmarks were found. They were deep rod type monuments set flush with the ground in a NGS logo cap (as shown).



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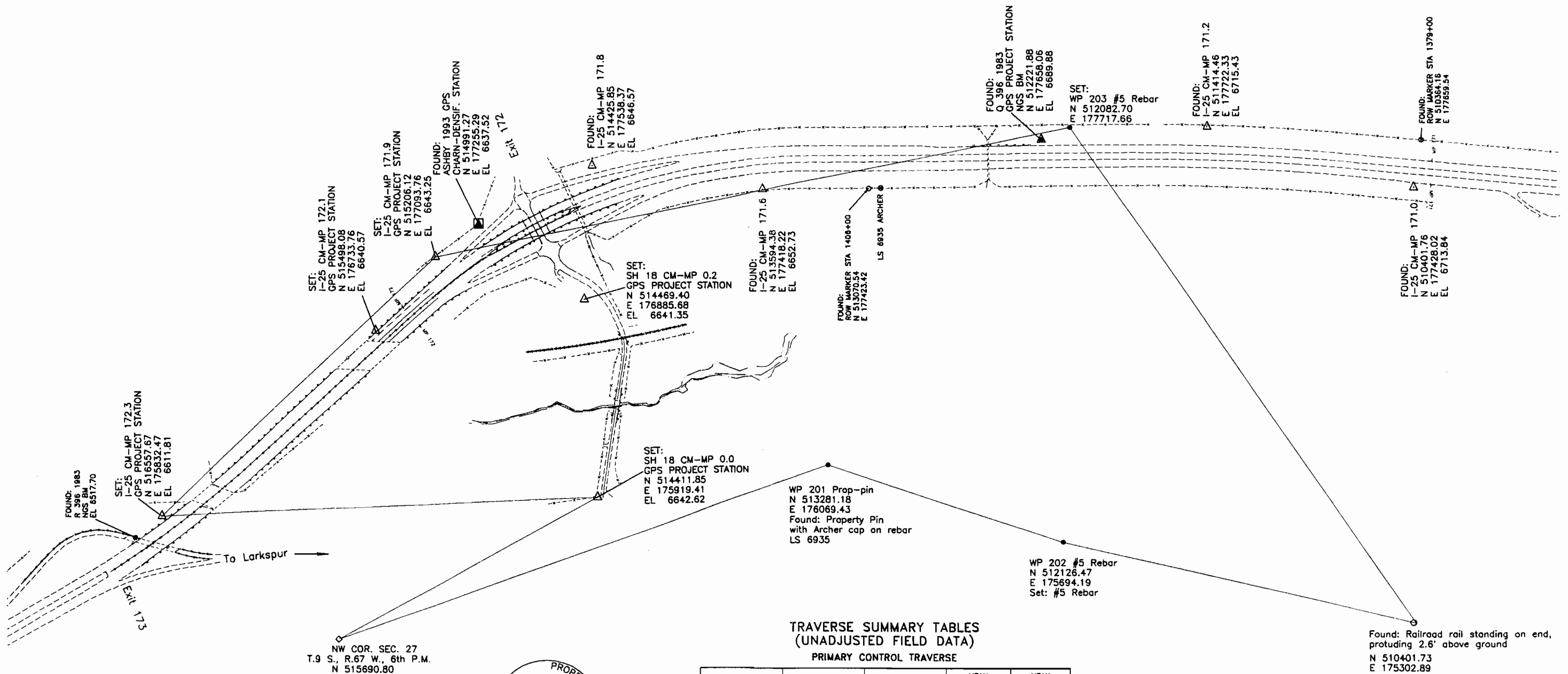
Project IM 0252-278
Interstate 25 MP 167.421 to MP 173.804
Sections 16, 21, 22, 27, 34, T. 9 S., R. 67 W., 6th P.M.
Sections 2, 3, 11, 14, T. 10 S., R. 67 W., 6th P.M.
DOUGLAS COUNTY, COLORADO

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NUMBER
VIII	COLORADO	Project IM 0252-278	8

Greenland - North

FILING CERTIFICATION:
DEPOSITED THIS _____ DAY OF _____, 19____, AT _____, FOR INFORMATION
ONLY IN BOOK _____ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY
SURVEYS AT PAGE _____, RECEPTION NUMBER _____

SIGNED _____
DEPT. _____



TRAVERSE SUMMARY TABLES
(UNADJUSTED FIELD DATA)
PRIMARY CONTROL TRAVERSE

OCCUPIED POINT	BACK POINT	AHEAD POINT	MEAN HORIZ. DIST. (±.02')	MEAN HORIZ. ANG. RT. (±5')
I-25 CM-MP 171.9	WP 203 #5 Rebar	I-25 CM-MP 172.3	1848.66'	148°16'18"
I-25 CM-MP 172.3	I-25 CM-MP 171.9	SH 18 CM-MP 0.0	2147.62'	40°41'58"
SH 18 CM-MP 0.0	I-25 CM-MP 172.3	NW COR. SEC. 27	1453.67'	33°56'40"
NW COR. SEC. 27	SH 18 CM-MP 0.0	WP 201 Prop-Pin	2552.12'	9°08'28"
WP 201 Prop-pin	NW COR. SEC. 27	WP 202 #5 Rebar	1214.15'	217°14'20"
WP 202 Prop-pin	WP 201 Prop-pin	RAILROAD RAIL	1768.57'	174°46'50"
RAILROAD RAIL	WP 202 Prop-pin	WP 203 #5 Rebar	2942.24'	42°22'29"
WP 203 Prop-pin	RAILROAD RAIL	I-25 CM-MP 171.9	3185.17'	113°32'50"

NOTE: Closure of unadjusted control traverses are calculated to be greater than 1 part in 50000.