

RIGHT OF WAY
W. 104TH AVE AT US36

RIGHT OF WAY PLAN OF PROPOSED
W. 104th AVENUE SPECIAL IMPROVEMENT DISTRICT
U.S. HIGHWAY NO. 36 / WEST 104TH AVENUE INTERCHANGE
JEFFERSON COUNTY, COLORADO

FEDERAL ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	CC 11 0036-08	1	9

AS CONSTRUCTED

NO REVISIONS		REVISED		VOID	
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REVISIONS

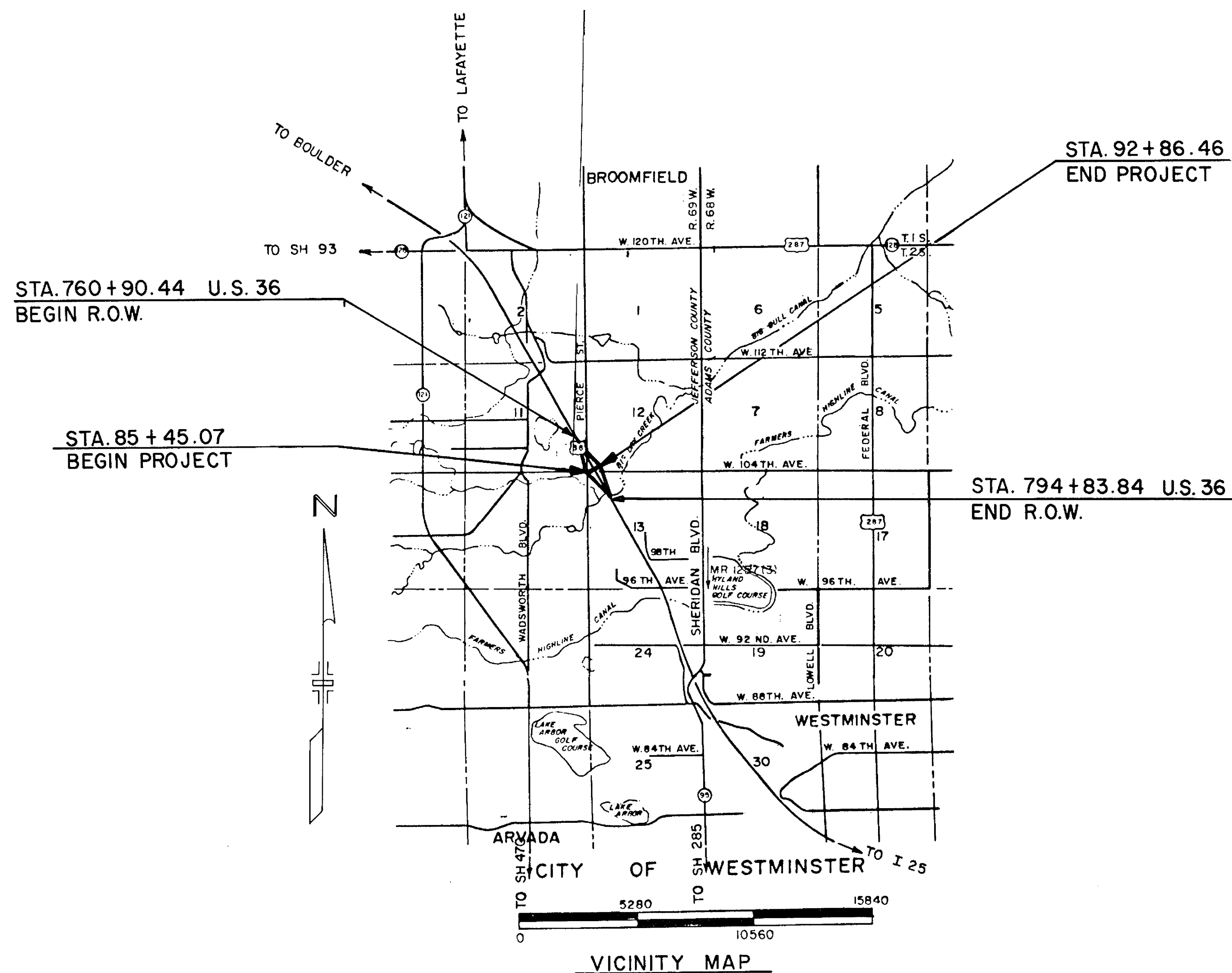
	0.1.1.1	0.1.1.2	0.1.1.3	0.1.1.4	0.1.1.5	0.1.1.6	0.1.1.7	0.1.1.8	0.1.1.9	0.1.1.10	0.1.1.11	0.1.1.12	0.1.1.13	0.1.1.14	0.1.1.15	0.1.1.16	0.1.1.17	0.1.1.18	0.1.1.19	0.1.1.20	0.1.1.21	0.1.1.22	0.1.1.23	0.1.1.24	0.1.1.25	0.1.1.26	0.1.1.27	0.1.1.28	0.1.1.29	0.1.1.30	0.1.1.31	0.1.1.32	0.1.1.33	0.1.1.34	0.1.1.35	0.1.1.36	0.1.1.37	0.1.1.38	0.1.1.39	0.1.1.40	0.1.1.41	0.1.1.42	0.1.1.43	0.1.1.44	0.1.1.45	0.1.1.46	0.1.1.47	0.1.1.48	0.1.1.49	0.1.1.50	0.1.1.51	0.1.1.52	0.1.1.53	0.1.1.54	0.1.1.55	0.1.1.56	0.1.1.57	0.1.1.58	0.1.1.59	0.1.1.60	0.1.1.61	0.1.1.62	0.1.1.63	0.1.1.64	0.1.1.65	0.1.1.66	0.1.1.67	0.1.1.68	0.1.1.69	0.1.1.70	0.1.1.71	0.1.1.72	0.1.1.73	0.1.1.74	0.1.1.75	0.1.1.76	0.1.1.77	0.1.1.78	0.1.1.79	0.1.1.80	0.1.1.81	0.1.1.82	0.1.1.83	0.1.1.84	0.1.1.85	0.1.1.86	0.1.1.87	0.1.1.88	0.1.1.89	0.1.1.90	0.1.1.91	0.1.1.92	0.1.1.93	0.1.1.94	0.1.1.95	0.1.1.96	0.1.1.97	0.1.1.98	0.1.1.99	0.1
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RIGHT OF WAY

SCALES OF ORIGINAL DRAWINGS	
PLAN SHEETS	1 IN. = 50 FT.
OWNERSHIP MAP	1 IN. = 300 FT.

EXISTING	PROPOSED	
		FENCE
		GUARD RAIL
		CULVERT
		PROPERTY LINE
		CITY LIMITS
		RIGHT-OF-WAY
		ROADWAY CENTERLINE
		TOP OF CUTS
		TOE OF FILLS
		CONTOUR
		SIDEWALK
		CURB AND GUTTER
		BURIED TELEPHONE CABLE
		OVERHEAD TELEPHONE
		BURIED ELECTRIC CABLE
		OVERHEAD ELECTRIC
		GAS MAIN
		WATERMAIN
		SANITARY SEWER
		STORM SEWER
		LANE MARKINGS
		RIP RAP
		TREES/BUSHES
		LIGHT POLE
		POWER POLE
		MANHOLE
		SECTION CORNER
		CENTER OF SECTION
		SECTION LINE
		1/4 SECTION LINE
		CONCRETE BARRIER
		BARRIER/GRADE

DESIGNED BY	INITIAL	DATE	CHECKED BY	07/01/91
CHECKED BY	W/H	1/15/90	QUAN * TIES BY	07/25/91
DETAILED BY			CHECKED BY	



INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	TABULATION OF PROPERTIES
3 3a	CONTROL AND MONUMENTATION SHEET CONTROL LOOP
4, 5, 6	PLAN SHEETS
7	OWNERSHIP MAP
8, 9	TYPICAL MONUMENT DETAILS

SURVEYOR CERTIFICATE (OFFICE)

ROW PLANS AND LEGAL DESCRIPTIONS WERE PREPARED UNDER
MY SUPERVISION AND CHECKING

NAME Wayne Wray Harris P.L.S. NO.

DATE 1/26/90



CITY OF
WESTMINSTER

APPROVED

David M. Downing 1-28-80
DATE

CITY ENGINEER
TITLE

CLERK AND RECORDER

ACCEPTED FOR FILING IN THE OFFICE OF THE CLERK AND RECORDER OF JEFFERSON
COUNTY, COLORADO, AT _____ O'CLOCK ____ M., THIS _____ DAY OF
_____, A.D., 1991.

CLERK AND RECORDER

BASIS OF BEARING: THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 12, T2S, R69W OF THE 6TH P.M. IS ASSUMED TO BEAR N. 00°17'41" E., SAID LINE BEING ESTABLISHED BY THE SOUTHWEST CORNER (A 3 1/4" ALUMINUM CAP L.S. 5239) AND THE WEST QUARTER CORNER (A 3 1/4" ALUMINUM CAP L.S. 23899) OF SAID SECTION 12.

Bk 8 pg 52 Rec # 91067533

R.O.W. TABULATION OF PROPERTIES IN JEFFERSON COUNTY

RIGHT OF WAY
W. 104TH AVE AT US36

FEDERAL ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	CC11-0036-08	2	9

PARCEL NO.	OWNER	ADDRESS	LOCATION T.2S., R.69W., 6TH P.M.	AREA IN SQUARE FEET				PARCEL NO.	REMARKS		
				PARCEL	TO BE ACQUIRED	* REMAINDER					
						LEFT	RIGHT				
1	BLOCK BROTHERS DEVELOPMENT (COLORADO) INC. A COLORADO CORPORATION		PART OF NE 1/4,SE 1/4, SEC. 11	5,374	5,374	3,841,400		1			
Q1	BLOCK BROTHERS DEVELOPMENT (COLORADO) INC., A COLORADO CORPORATION		PART OF NE 1/4,SE 1/4, SEC. 11	7,524				Q1	PARCEL REQUIRED TO CLEAN UP ERROR IN PREVIOUSLY AQUIRED DEEDS.		
2	DONALD JAMES RYAN		PART OF NE 1/4,SE 1/4, SEC. 11	1,372	1,372	443,000		2			
3	GARY D. MORTENSEN, & DONNA J. MORTENSEN		PART OF E 1/2,SE 1/4, SEC. 11	34,924	34,924		1.9 ACRES	3			
Q3	GARY D. MORTENSEN, & DONNA J. MORTENSEN		PART OF E 1/2,SE 1/4, SEC. 11	10,124				Q3	PARCEL REQUIRED TO CLEAN UP ERROR IN PREVIOUSLY AQUIRED DEEDS.		
4	NORTHPOINT CENTER JOINT VENTURE, A COLORADO JOINT VENTURE		PART OF E 1/2,SE 1/4,SEC. 11 & SW 1/4,SW 1/4, SEC. 12	307,245	307,245	6,720,600		4			
SE-4N	NORTHPOINT CENTER JOINT VENTURE, A COLORADO JOINT VENTURE		PART OF E 1/2,SE 1/4,SEC. 11 & SW 1/4,SW 1/4, SEC. 12	34,430	34,430			SE-4N	SLOPE EASEMENT NORTH OF W 104TH AVE & EAST OF US 36		
SE-4S	NORTHPOINT CENTER JOINT VENTURE, A COLORADO JOINT VENTURE		PART OF SW 1/4,SW 1/4, SEC. 12	5,302	5,302			SE-4S	SLOPE EASEMENT SOUTH OF W 104TH AVE & EAST OF US 36		
									NOTE: THE PURPOSE OF THE SLOPE EASEMENTS IS FOR THE CONSTRUCTION AND MAINTAINANCE OF THE ROADWAY SLOPES IN FILL AREAS OUTSIDE THE PERMANENT ROADWAY R.O.W.		
5	CHARLES P. PFANNENSTIEL & SHIRLEY Y. PFANNENSTIEL		PART OF SE 1/4,SE 1/4, SEC. 11	24,823	24,823		53,091	5			
6	ADMINISTRATOR OF VETERAN AFFAIRS		PART OF SE 1/4,SE 1/4, SEC. 11	28,506	28,506		46,610	6			
7	ROBERT FRANCIS CHAMBERLAIN		PART OF SE 1/4,SE 1/4, SEC. 11 & SW 1/4,SW 1/4, SEC. 12	139,180	139,180		313,800	7			
8	R. HAWN INTERESTS, A TEXAS LIMITED PARTNERSHIP		PART OF NW 1/4, NW 1/4, SEC. 13	6,575	6,575		OVER 100 AC.	8			
9	R. HAWN INTERESTS, A TEXAS LIMITED PARTNERSHIP		PART OF NW 1/4, NW 1/4, SEC. 13	35,793	35,793	OVER 100 AC		9			
10	R. HAWN INTERESTS, A TEXAS LIMITED PARTNERSHIP		PART OF NW 1/4, NW 1/4, SEC. 13	2,353	2,353		OVER 100 AC.	10			
									THE AREA SHOWN "TO BE ACQUIRED" HAS BEEN FIELD VERIFIED.		
									* AREAS SHOWN "REMAINING" HAVE BEEN CALCULATED FROM INFORMATION OBTAINED FROM EXISTING PLATS AND LEGAL DESCRIPTIONS, HOWEVER THE AREAS HAVE NOT BEEN FIELD VERIFIED.		
									* EXACT AREA BY FIELD SURVEY		

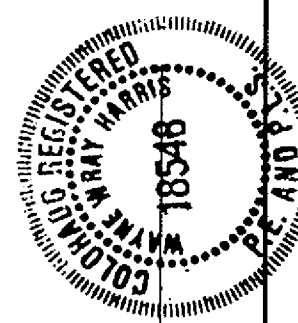
SURVEYOR CERTIFICATE (OFFICE)

ROW PLANS AND LEGAL DESCRIPTIONS WERE PREPARED UNDER
MY SUPERVISION AND CHECKING

NAME *Wayne Wayne Harris* P.L.S. NO. *18548*

DATE *1/26/90*

DESIGNED BY	DATE	CHECKED BY	QUANTITIES BY
CHECKED BY	07/01/90	WWH	07/25/91
DETAILED BY			



CONTROL AND MONUMENTATION SHEET

RIGHT OF WAY
W. 104TH AVE AT US36

FEDERAL ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	CC11-0036-08	3	9

AS CONSTRUCTED			
NO REVISIONS	☐	REVISED	☐
		VOID	☐

REVISIONS			

GENERAL NOTES

- THIS RIGHT OF WAY PLAN IS NOT A COMPLETE BOUNDARY SURVEY OF ALL ADJOINING OWNERS AND IS PREPARED FOR HIGHWAY DEPARTMENT PURPOSES ONLY.
- FIELD SURVEY CONTROL PRECISION COMPUTED TO EXCEED $\frac{1}{20,000}$.
- MEMORANDUM OF OWNERSHIPS SUPPLIED BY THE TRANSAMERICA TITLE INSURANCE CO. AND SECURITY TITLE GUARANTY COMPANY.
- NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN SIX 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.
- ALL R.O.W. MARKERS SET FROM SURVEY CONTROL POINTS.
- ALL CENTERLINE AND OFFSET STATIONING IS THEORETICAL ONLY AND MAY NOT REPRESENT THE CENTERLINE AS CONSTRUCTED IN THE FIELD.
- ALL COORDINATES LISTED ARE ASSUMED PROJECT COORDINATES.

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE					
	1	2	3	4	5	6
REFERENCE						
RIGHT OF WAY	31					
CONTROL						
ALIQUOT COR.						

SURVEYOR CERTIFICATE (FIELD)

CONTROL SURVEY AND MONUMENTATION OF CONTROL SURVEY WAS DONE UNDER MY SUPERVISION AND CHECKING.

NAME Richard A. Pugh P.L.S. NO.

DATE 1/26/90

SURVEYOR CERTIFICATE (OFFICE)

ROW PLANS AND LEGAL DESCRIPTIONS WERE PREPARED UNDER MY SUPERVISION AND CHECKING

NAME Wayne Way Harris P.L.S. NO.

DATE 1/26/90

TABULATION OF R.O.W. MARKERS TO BE SET *

POINT NO.	COORDINATES		REMARKS
	NORTH	EAST	
200	749419.008	120123.528	TYPE I MONUMENT
201	748780.777	120491.083	-
202	748781.047	120385.861	-
203	748905.083	120350.257	TYPE I MONUMENT
204	749363.568	120123.442	TYPE I MONUMENT
205	748688.615	120412.393	TYPE I MONUMENT
206	748596.211	120429.483	-
207	748595.640	120597.702	-
208	748450.361	120681.368	-
209	748451.172	120456.307	-
210	748382.435	120469.020	TYPE I MONUMENT
211	748289.087	120480.067	TYPE I MONUMENT
212	748192.464	120535.711	TYPE I MONUMENT
213	747957.112	120797.085	TYPE I MONUMENT
214	747845.005	120938.511	TYPE I MONUMENT
215	747844.434	121030.319	-
216	747641.396	121147.248	TYPE I MONUMENT
217	747844.838	120965.320	TYPE I MONUMENT
218	747371.893	121302.454	TYPE I MONUMENT
219	747214.177	121393.282	-
220	747189.070	121386.525	TYPE I MONUMENT
221	747336.572	121311.255	TYPE I MONUMENT
222	748246.840	120798.575	-
300	750106.244	119987.497	TYPE I MONUMENT
301	750067.614	120041.228	TYPE I MONUMENT
302	749926.850	120117.941	TYPE I MONUMENT
303	749880.158	120117.620	TYPE I MONUMENT
304	749827.535	120147.259	-
305	749866.233	120147.525	TYPE I MONUMENT
306	-	-	-
307	-	-	-
308	749779.136	120146.926	TYPE I MONUMENT
309	749457.319	120365.237	TYPE I MONUMENT
310	749301.498	120471.043	TYPE I MONUMENT
311	749063.352	120671.748	TYPE I MONUMENT
312	748941.608	120802.148	TYPE I MONUMENT
313	748690.959	121083.648	TYPE I MONUMENT
314	748698.074	121100.073	TYPE I MONUMENT
315	748507.890	121209.599	TYPE I MONUMENT
316	747842.508	121340.011	TYPE I MONUMENT
317	747842.994	121261.943	-
318	748644.052	120800.618	-
319	748779.980	120801.316	-
320	748780.183	120722.219	-
321	747842.416	121354.769	TYPE I MONUMENT
322	747189.127	121654.599	TYPE I MONUMENT
323	747152.279	121659.723	TYPE I MONUMENT
330	-	-	-
331	749441.426	120388.116	-
332	749206.232	120577.487	-
333	748988.607	120802.389	-
334	748764.663	121061.724	-
335	748481.066	121225.047	-
336	747975.100	121324.214	-
337	747973.177	121314.400	-
340	748227.021	120372.295	-
341	748101.969	120184.678	-
342	748004.513	120240.909	-
343	748130.398	120427.939	-
344	748659.078	121122.530	-
345	748761.307	121300.044	-
346	748825.170	121430.275	-
347	748727.546	121486.377	-
348	748664.685	121355.688	-
349	748562.456	121178.175	-
350	749854.000	120117.440	-
351	750382.554	119814.930	-
352	750400.165	119818.334	-
353	749445.911	120123.569	-
354	748780.737	120506.640	-

SURVEY CONTROL POINT TABULATION

POINT DESIGNATION △	COORDINATES		REMARKS
	NORTH	EAST	
11	747845.887	120796.513	3" ALUMINUM CAP, LS 5239 - SW CORNER SEC. 12
110	747685.484	121282.169	HINGE NAIL WITH WASHER
111	748483.995	121263.944	3" CDOH TRAVERSE PT.
112	749422.877	121136.540	3" CDOH TRAVERSE PT.
113	750441.560	120809.868	3" ALUMINUM CAP, LS 23899- E1/4 CORNER SEC. 11
114	749245.746	120384.854	HINGE NAIL WITH WASHER
115	748586.613	120664.558	3" CDOH TRAVERSE PT. IN RANGE BOX
99	747845.863	120796.481	CLOSING CORNER AT 11 FROM 115

MONUMENTS FOUND ALONG US 36 R.O.W.

POINT DESIGNATION □	COORDINATES		REMARKS
	NORTH	EAST	
181	750714.068	119637.353	CDOH BRASS CAP IN CONCRETE
183	749765.732	120155.586	#4 REBAR W/CAP LS 16823
184	749769.919	120151.229	#5 REBAR NO CAP
185	748644.273	120800.490	#4 REBAR W/CAP LS 16823
186	747843.679	121261.377	#4 REBAR W/CAP LS 16823

SURVEYOR CERTIFICATE (FIELD)

RIGHT OF WAY MONUMENTATION WAS DONE UNDER MY SUPERVISION AND CHECKING.

NAME Wayne Way Harris P.L.S. NO.

DATE 7-25-91



* MONUMENTS TO BE FURNISHED BY CDOH

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

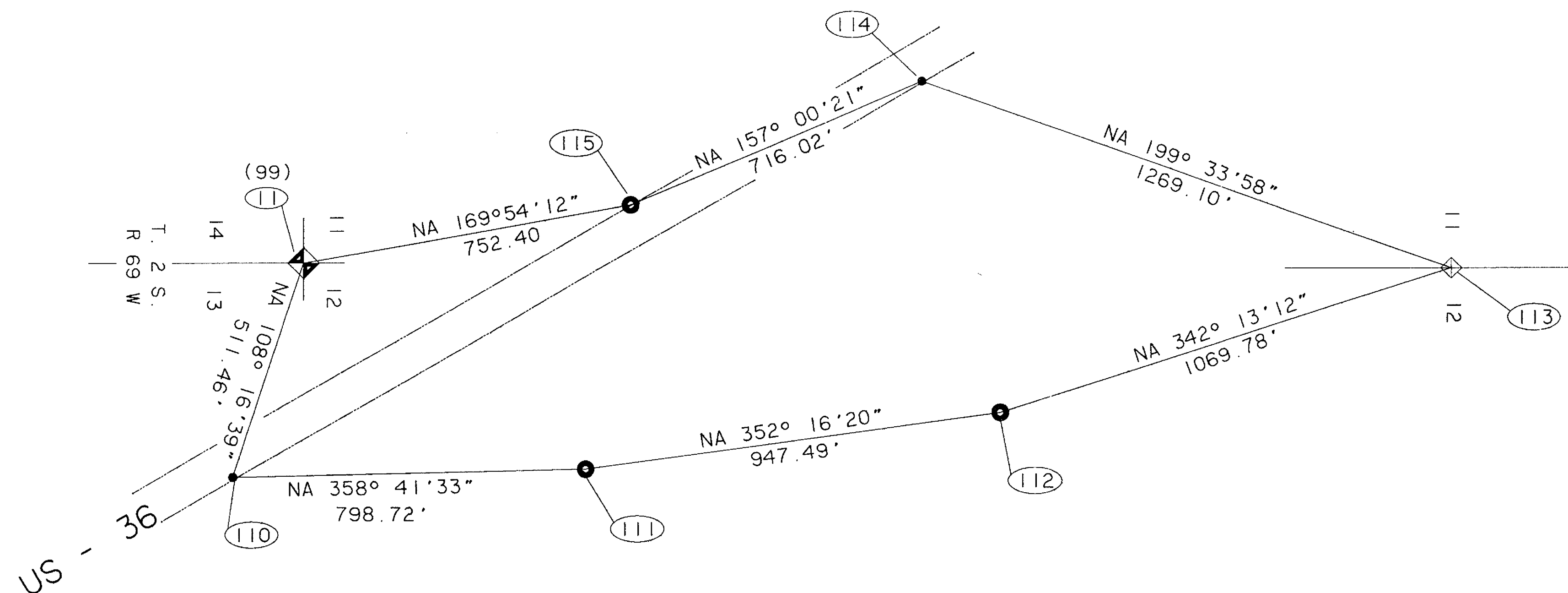
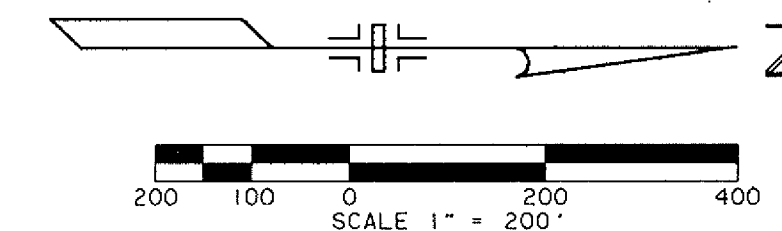
FEDERAL ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	CC11-0036-08	3A	9

SURVEY CONTROL POINT TABULATION

POINT DESIGNATION Δ	COORDINATES		REMARKS
	NORTH	EAST	
11	747845.887	120796.513	3" ALUMINUM CAP, LS 5239
110	747685.484	121282.169	HINGE NAIL WITH WASHER
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99	747845.863	120796.481	CLOSING CORNER AT 11 FROM 115

SE 1/4 SEC. 11, SW 1/4 SEC. 12, NW 1/4 SEC. 13,
T.2S,R69W

REVISIONS		



NOTES

1. THESE COORDINATES ARE BASED ON PREVIOUSLY ESTABLISHED VALUES FOR POINT NO. 11 AND AZIMUTH ALONG EAST SECTION LINE OF THE SE 1/4 SECTION 11.
2. THESE ARE PROJECT COORDINATES, BASED ON FIELD-MEASURED ANGLES AND DISTANCES ONLY. NO ADJUSTMENTS WERE MADE TO THE ORIGINAL FIELD DATA IN COMPUTING THE COORDINATES SHOWN HEREON.
3. CLOSING COORDINATES (ID NO. SHOWN IN PARENTHESIS) ARE PROVIDED SO THAT THE ERROR OF CLOSURE OR AZIMUTH OF CLOSING LINE MAY BE CALCULATED.

LEGEND

- SECTION CORNER
- QUARTER CORNER
- CONTROL POINT, 3" CAP
- HINGE NAIL WITH WASHER
- TRAVERSE LINE
- POINT ID NO.
- CLOSING COORDINATE

SURVEYOR CERTIFICATE (OFFICE)

ROW PLANS AND LEGAL DESCRIPTIONS WERE PREPARED UNDER MY SUPERVISION AND CHECKING

NAME Wayne Way Harris P.L.S. NO. 18548
DATE 1/26/90



CERTIFICATION

I, RICHARD A. NOBBE, A REGISTERED LAND SURVEYOR IN THE STATE OF COLORADO, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CHECKING, AND THAT IT ACCURATELY REFLECTS FIELD DATA GATHERED BY MARTIN/MARTIN SURVEY CREWS.

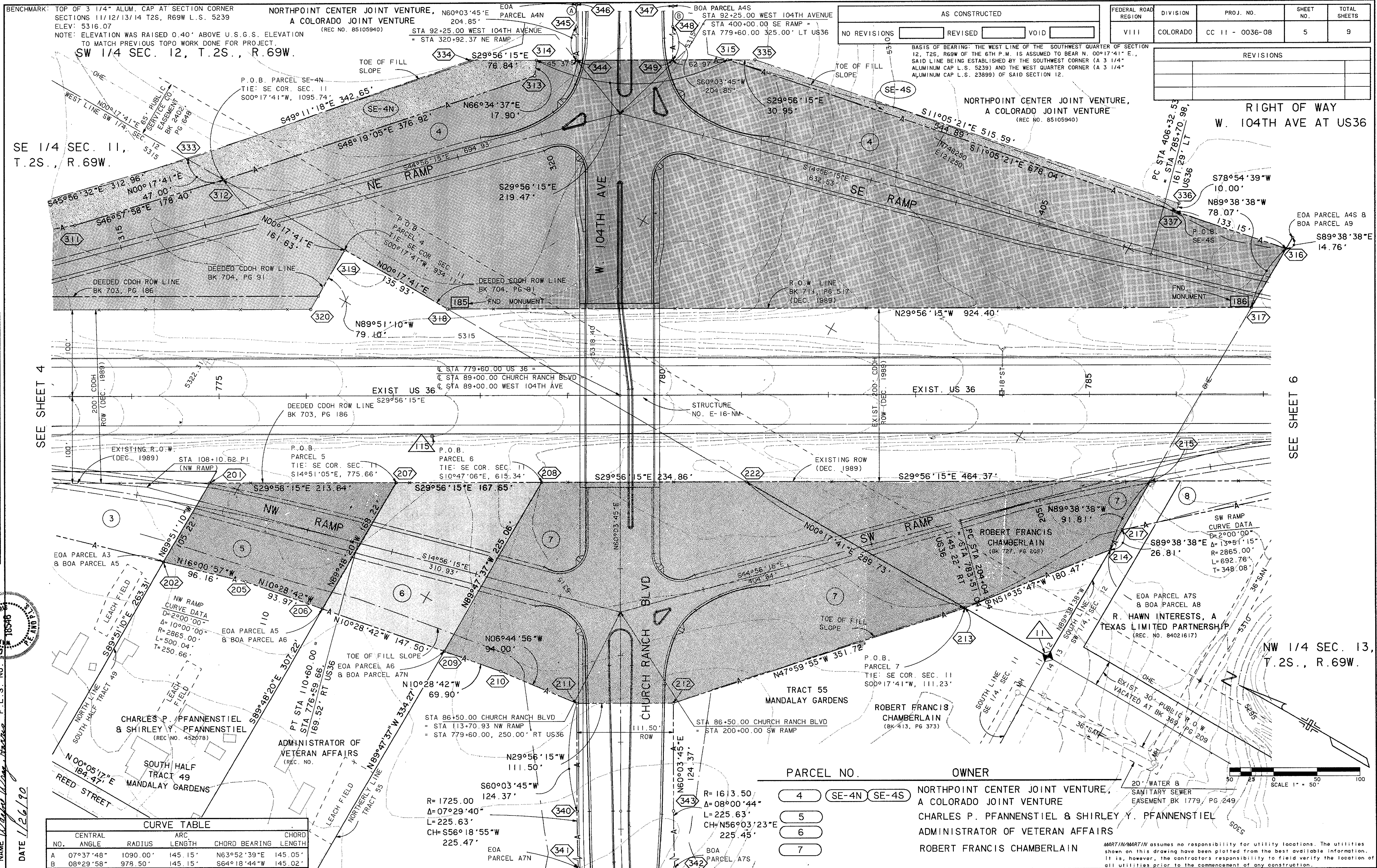
PREPARED BY RN DATE 9-14-89
MARTIN/MARTIN
Consulting Engineers
4251 Kipling St.
Wheat Ridge, Co. 80033-6100

REVISION DATES		(PRELIMINARY STAGE ONLY)	

DESIGNED BY	07/01/91
CHECKED BY	07/25/91
DATE	
INITIAL	
DESIGNED BY	
CHECKED BY	
DATE	
INITIAL	
DESIGNED BY	
CHECKED BY	
DATE	
INITIAL	

MARTIN/MARTIN assumes no responsibility for utility locations. The utilities shown on this drawing have been plotted from the best available information. It is, however, the contractors responsibility to field verify the location of all utilities prior to the commencement of any construction.

BR 8 pag 56 Rec # 91067533



BENCHMARK: TOP OF 3 1/4" ALUM. CAP AT SECTION CORNER
SECTIONS 11/12/13/14 T2S, R69W L.S. 5239
ELEV: 5316.07
NOTE: ELEVATION WAS RAISED 0.40' ABOVE U.S.G.S. ELEVATION
TO MATCH PREVIOUS TOPO WORK DONE FOR PROJECT.

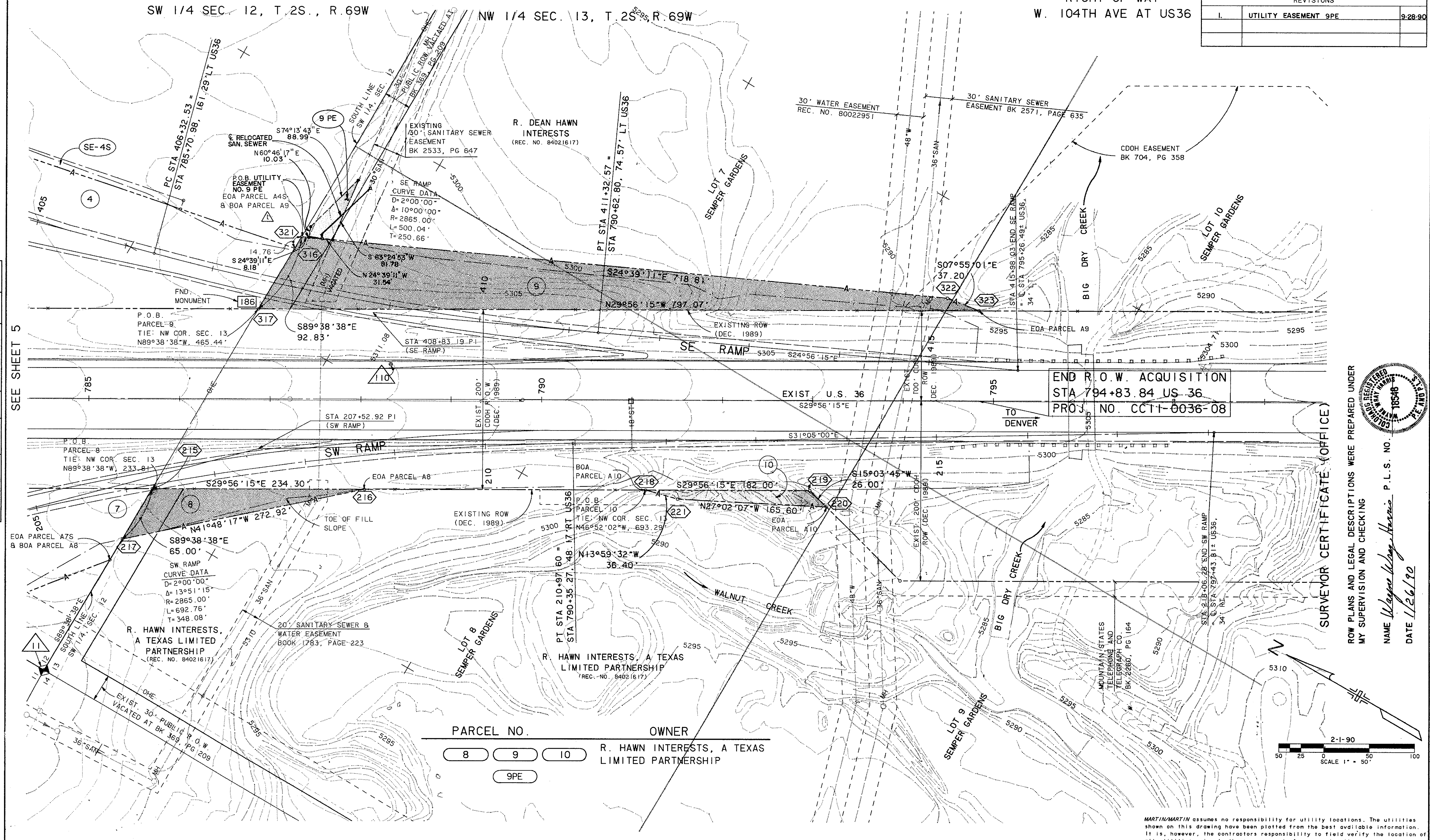
BASIS OF BEARING: THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION
12, T2S, R69W OF THE 6TH P.M. TS ASSUMED TO BEAR N. 00°17'41" E.,
SAID LINE BEING ESTABLISHED BY THE SOUTHWEST CORNER (A 3 1/4"
ALUMINUM CAP L.S. 5239) AND THE WEST QUARTER CORNER (A 3 1/4"
ALUMINUM CAP L.S. 23899) OF SAID SECTION 12.

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FEDERAL ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	CC 11 - 0036-08	6	9

RIGHT OF WAY
W. 104TH AVE AT US36

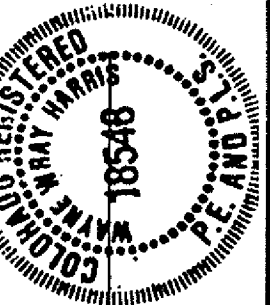
REVISIONS		
I.	UTILITY EASEMENT 9PE	9-28-90



DESIGNED BY	CHECKED BY	DATE	INITIAL
W.H.	W.H.	07/25/91	
DRAWN BY	CHECKED BY	DATE	INITIAL

SEE SHEET 5

SURVEYOR CERTIFICATE (OFFICE)
ROW PLANS AND LEGAL DESCRIPTIONS WERE PREPARED UNDER
MY SUPERVISION AND CHECKING



NAME *Wayne W. Hawn* P.L.S. NO. 18346
DATE *1/26/90*

MARTIN/MARTIN assumes no responsibility for utility locations. The utilities shown on this drawing have been plotted from the best available information. It is, however, the contractor's responsibility to field verify the location of all utilities prior to the commencement of any construction.

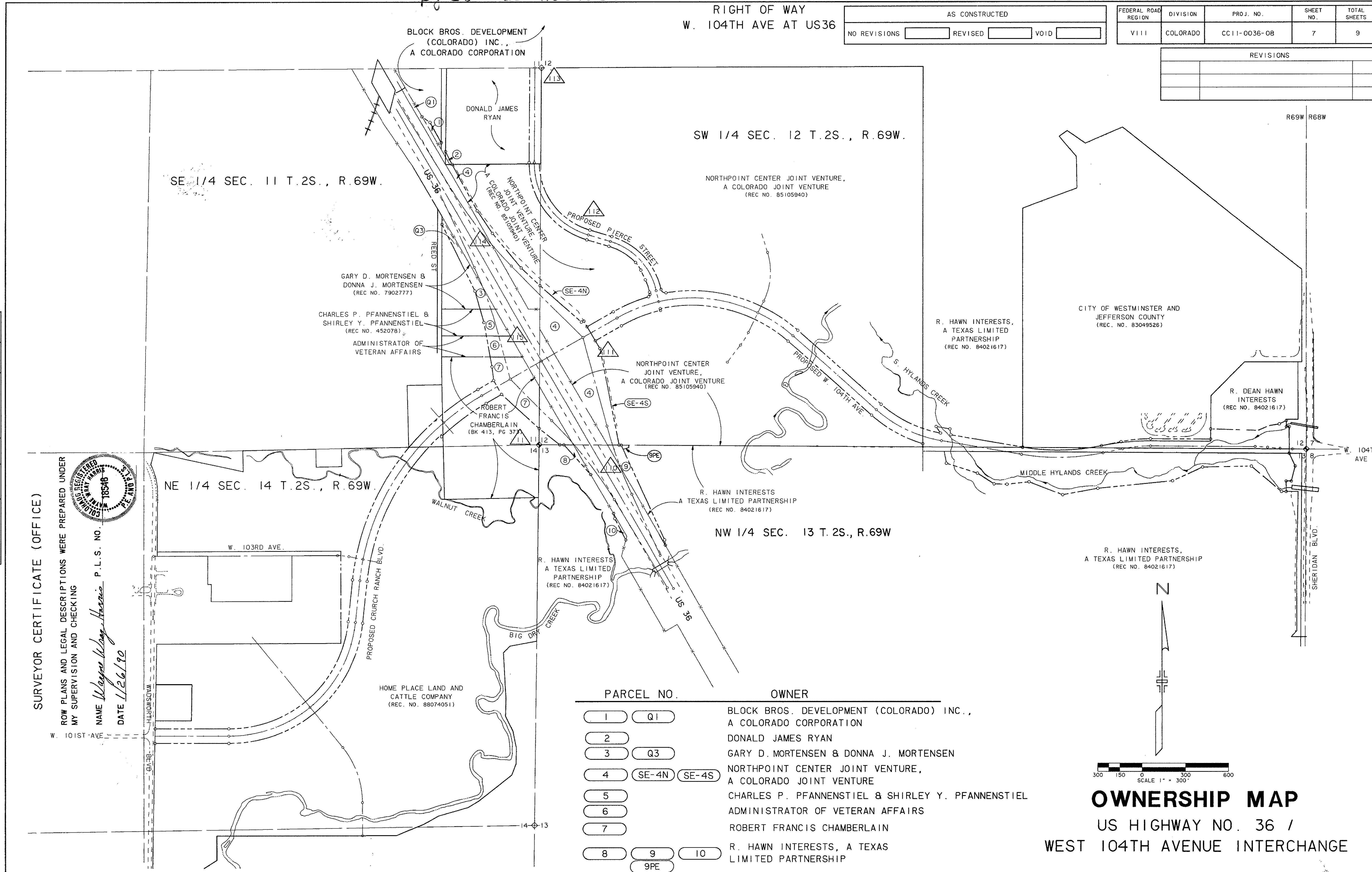
Bk 8 pg 58 Rec # 91067533

RIGHT OF WAY
W. 104TH AVE AT US36

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FEDERAL ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	CC11-0036-08	7	9

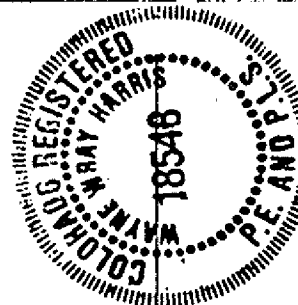
REVISIONS	



SURVEYOR CERTIFICATE (OFFICE)

ROW PLANS AND LEGAL DESCRIPTIONS WERE PREPARED UNDER MY SUPERVISION AND CHECKING

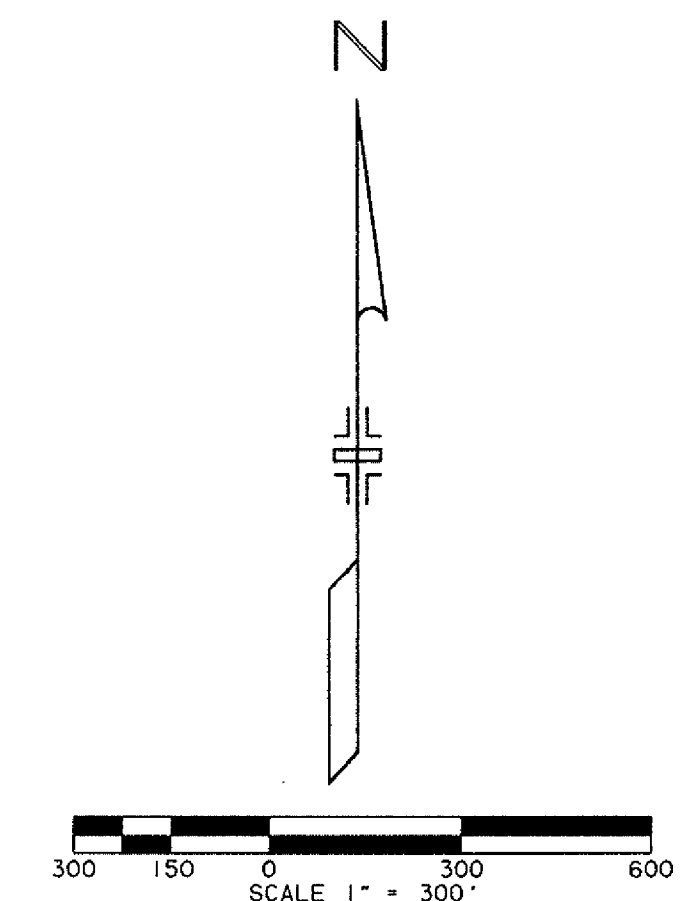
NAME *Wayne W. Hawn* P.L.S. NO. *18548*
DATE *1/26/90*



PARCEL NO.

OWNER

1	Q1	BLOCK BROS. DEVELOPMENT (COLORADO) INC., A COLORADO CORPORATION
2		DONALD JAMES RYAN
3	Q3	GARY D. MORTENSEN & DONNA J. MORTENSEN
4	SE-4N SE-4S	NORTHPOINT CENTER JOINT VENTURE, A COLORADO JOINT VENTURE
5		CHARLES P. PFANNENSTIEL & SHIRLEY Y. PFANNENSTIEL
6		ADMINISTRATOR OF VETERAN AFFAIRS
7		ROBERT FRANCIS CHAMBERLAIN
8	9 9PE 10	R. HAWN INTERESTS, A TEXAS LIMITED PARTNERSHIP

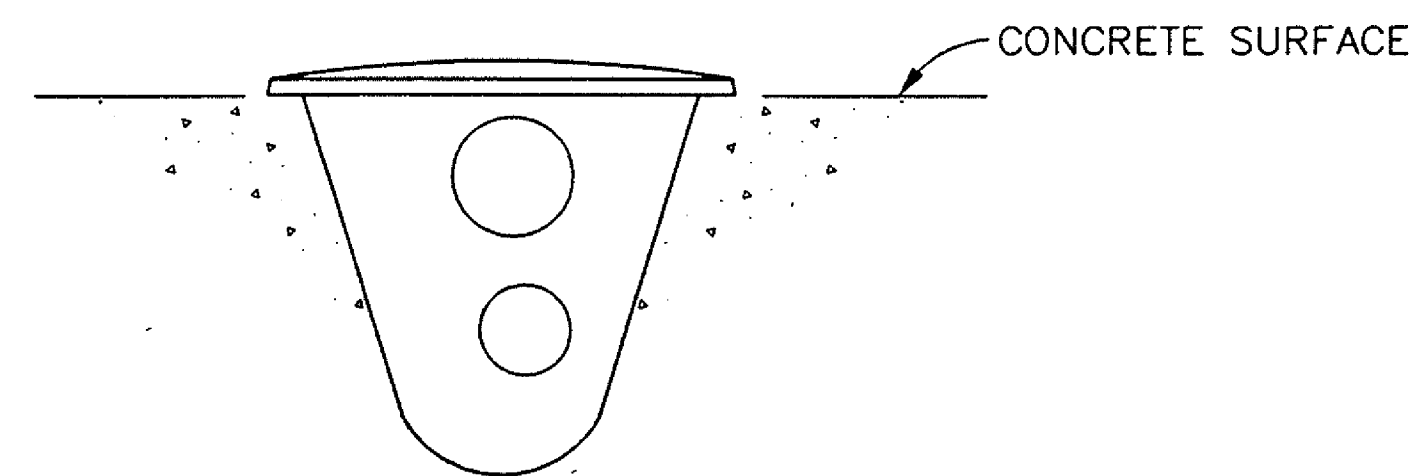
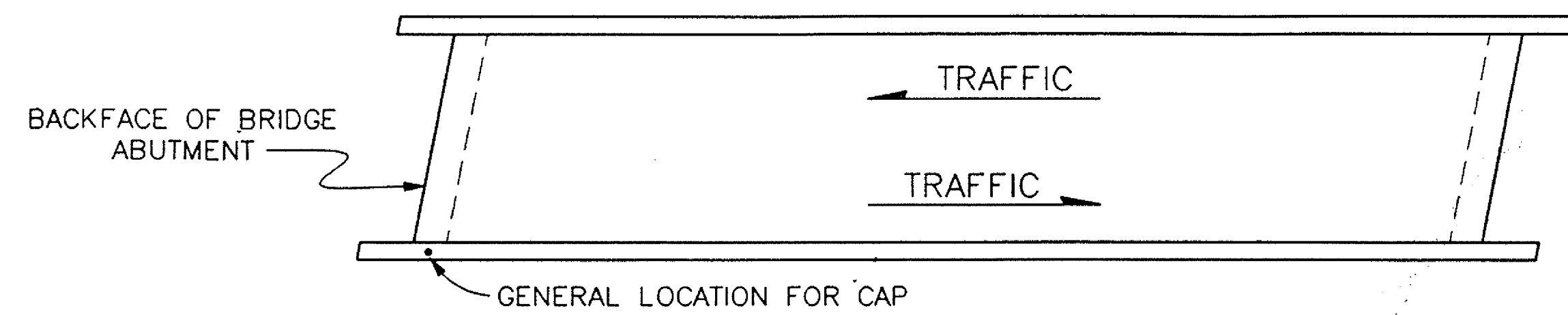


OWNERSHIP MAP
US HIGHWAY NO. 36 /
WEST 104TH AVENUE INTERCHANGE

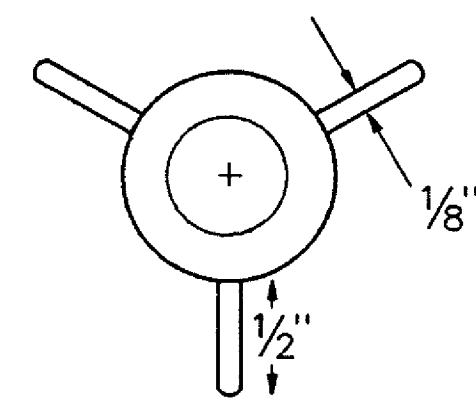
BR 8 pg 59 Rec 71067533

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

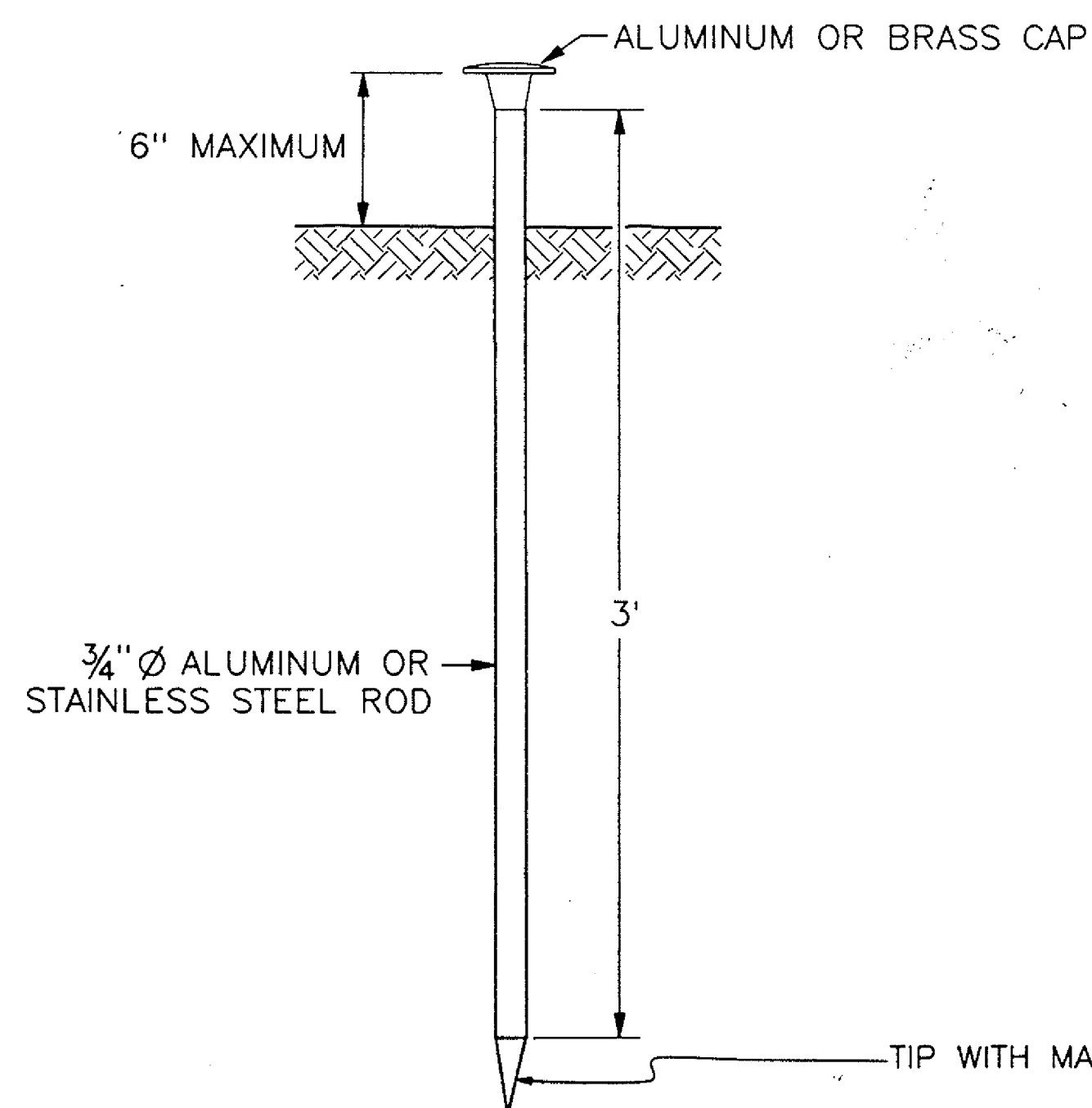
FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.
VIII	COLO.	CC11-0036-08	8



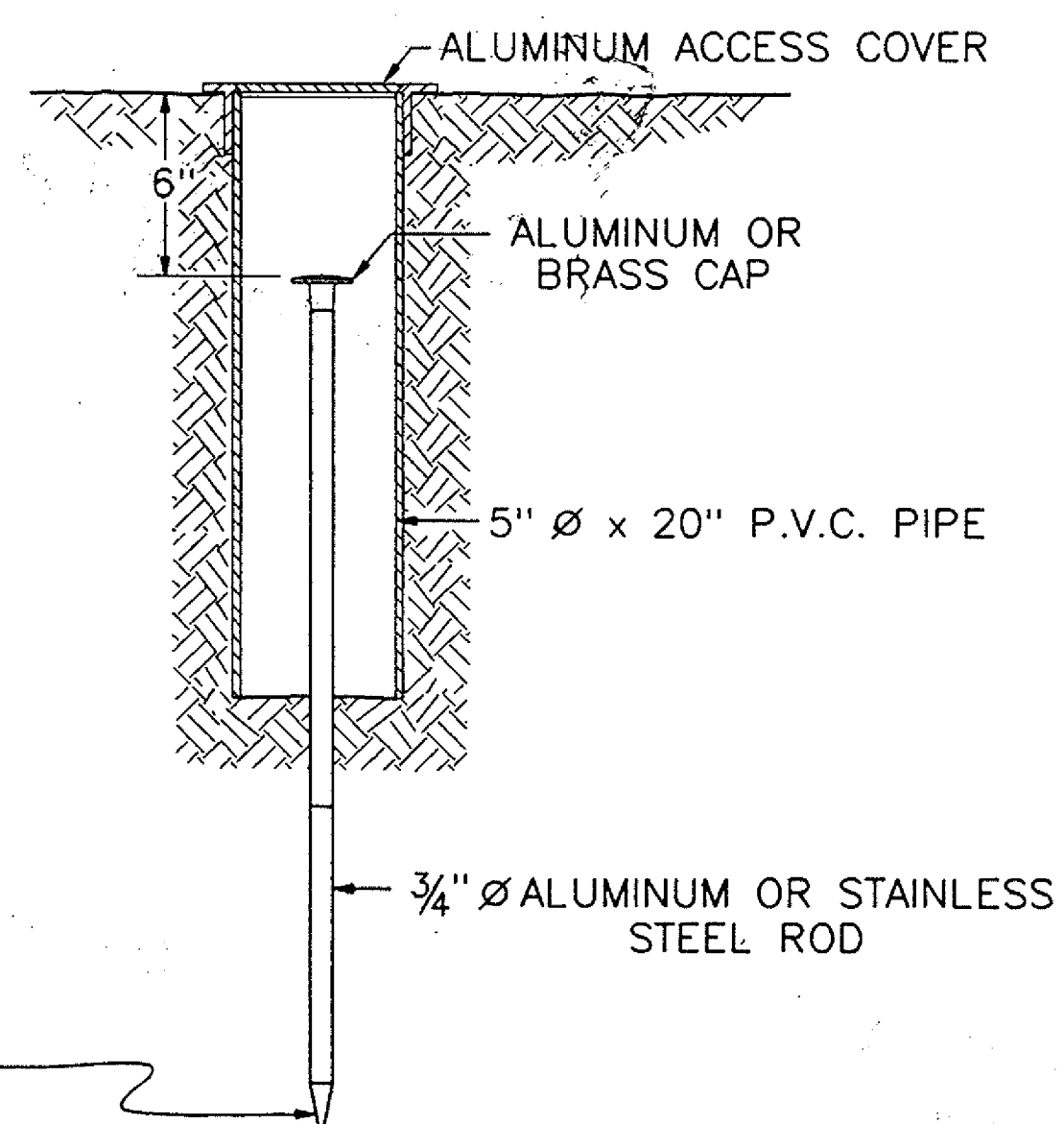
TYPE 4 MONUMENT



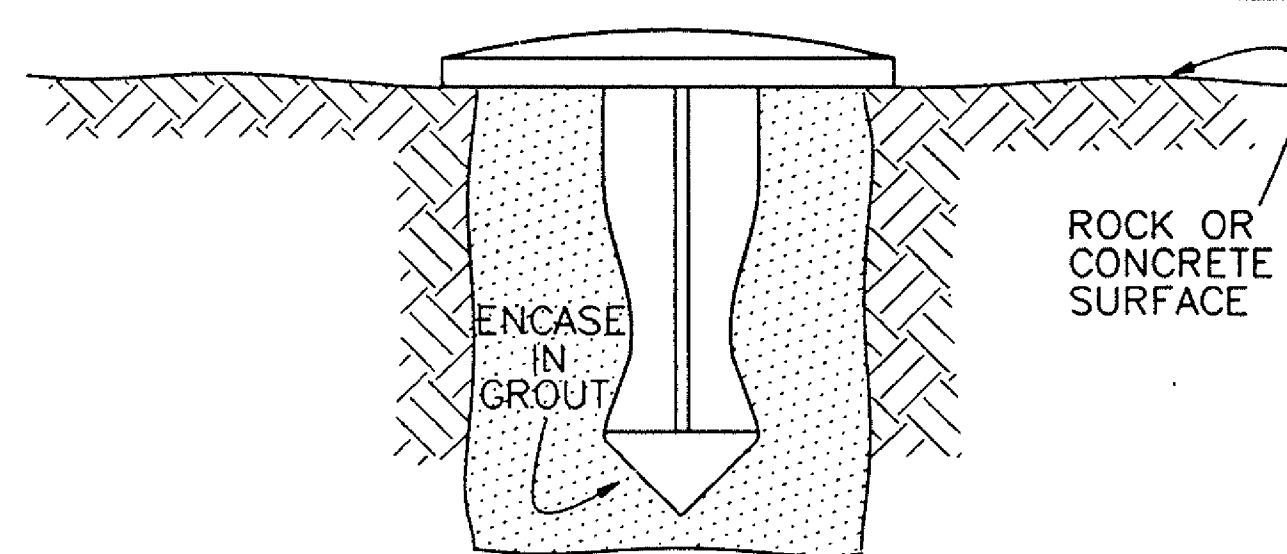
SECTION B-B



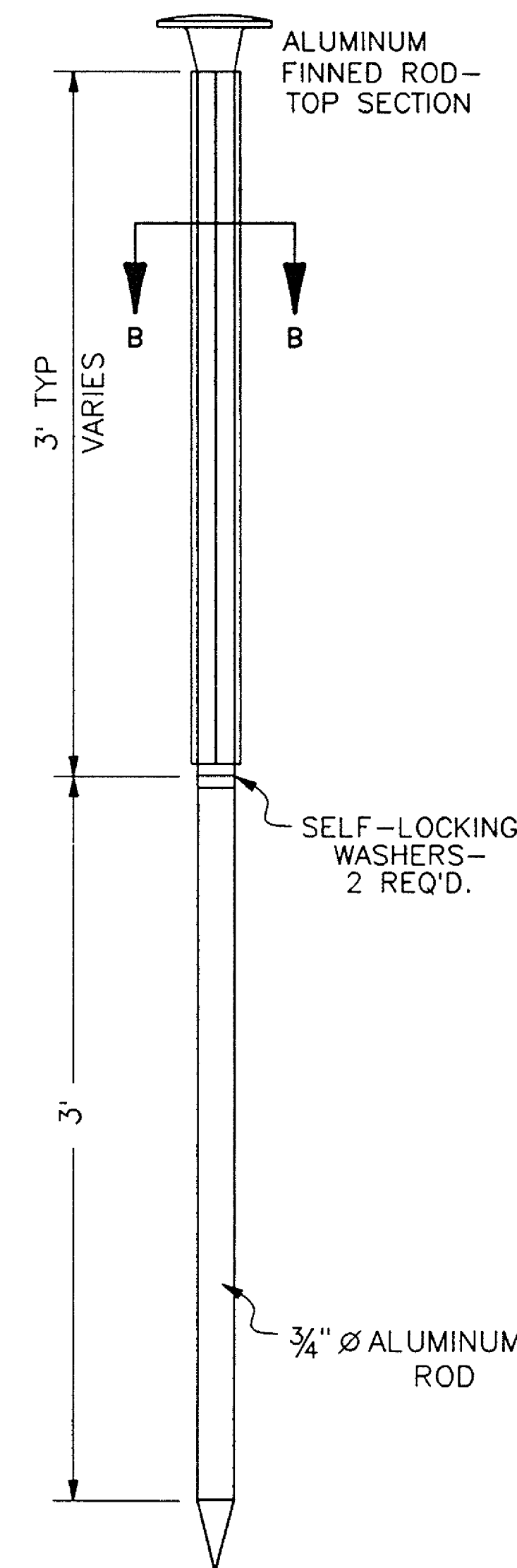
TYPE 1 MONUMENT



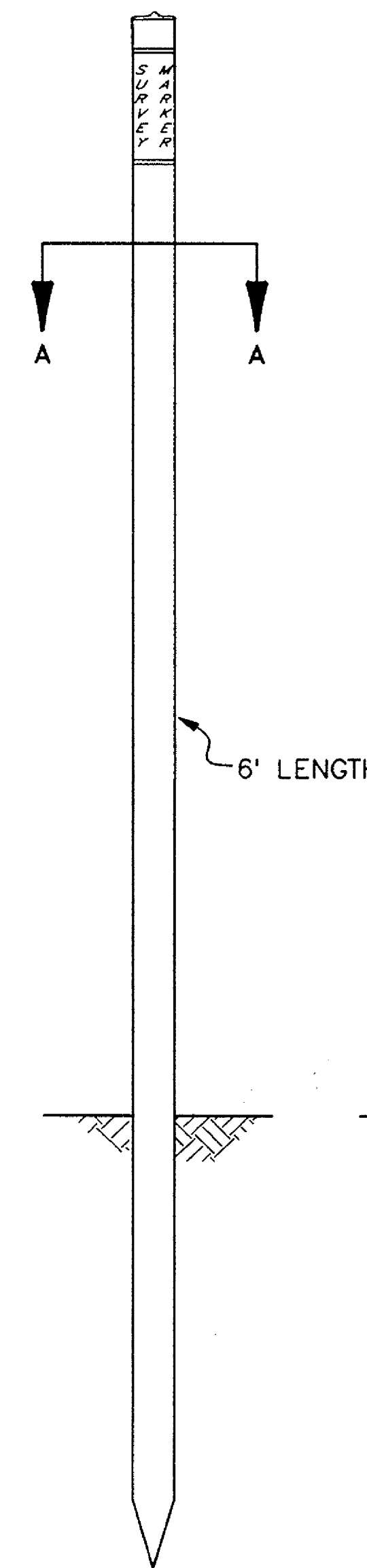
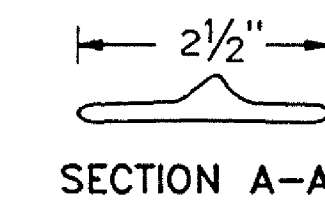
TYPE 1A MONUMENT & TYPE 2A MONUMENT
INCLUDES MONUMENT BOX



TYPE 5 MONUMENT

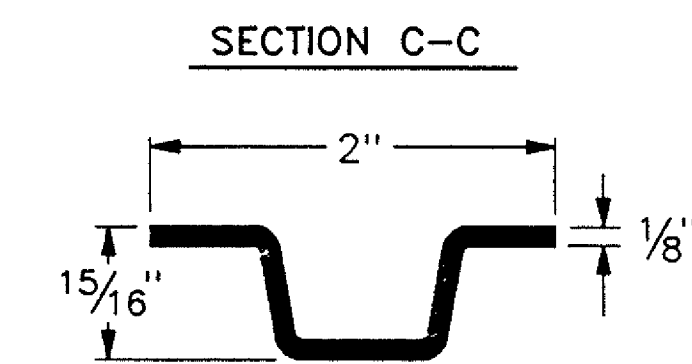
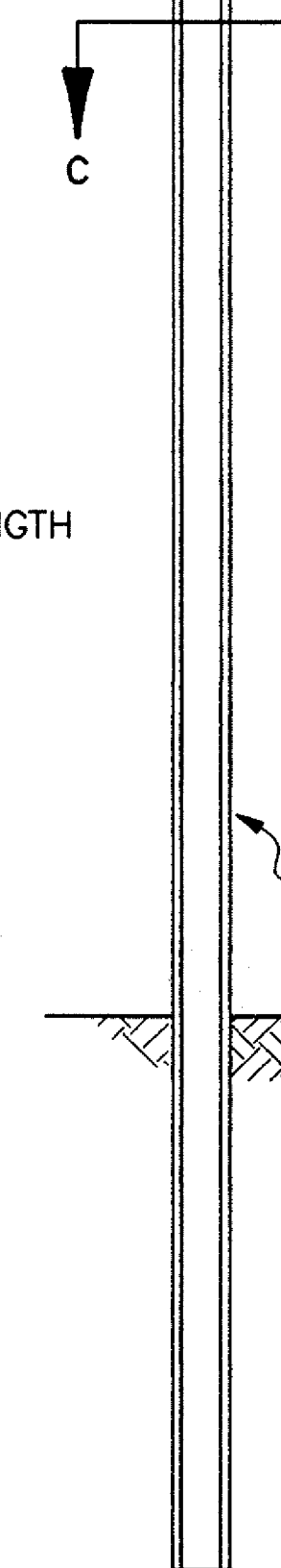
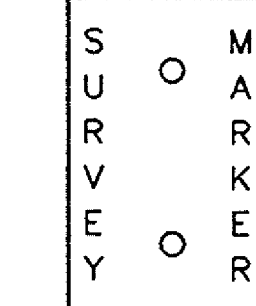


TYPE 2 MONUMENT

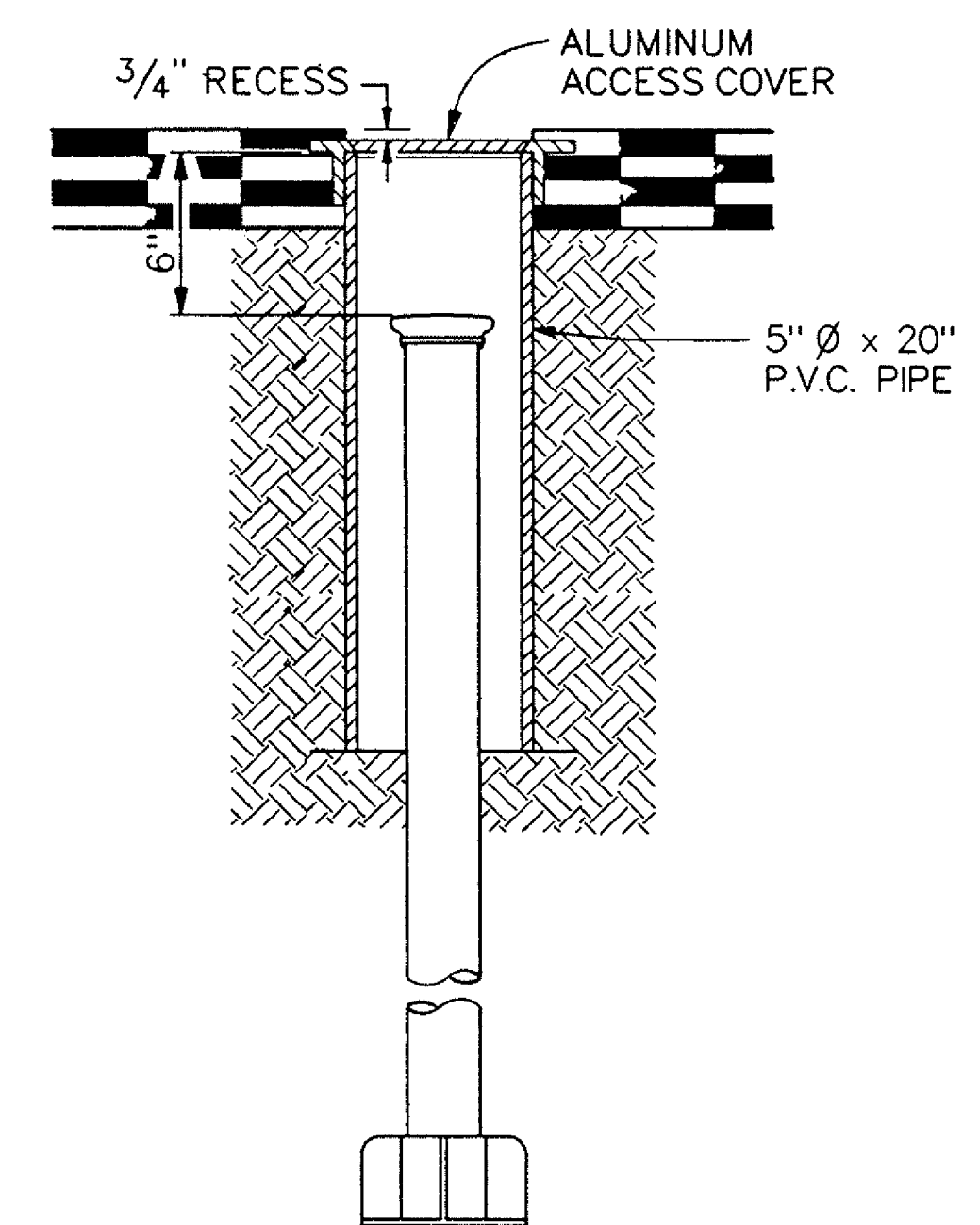


WITNESS POSTS

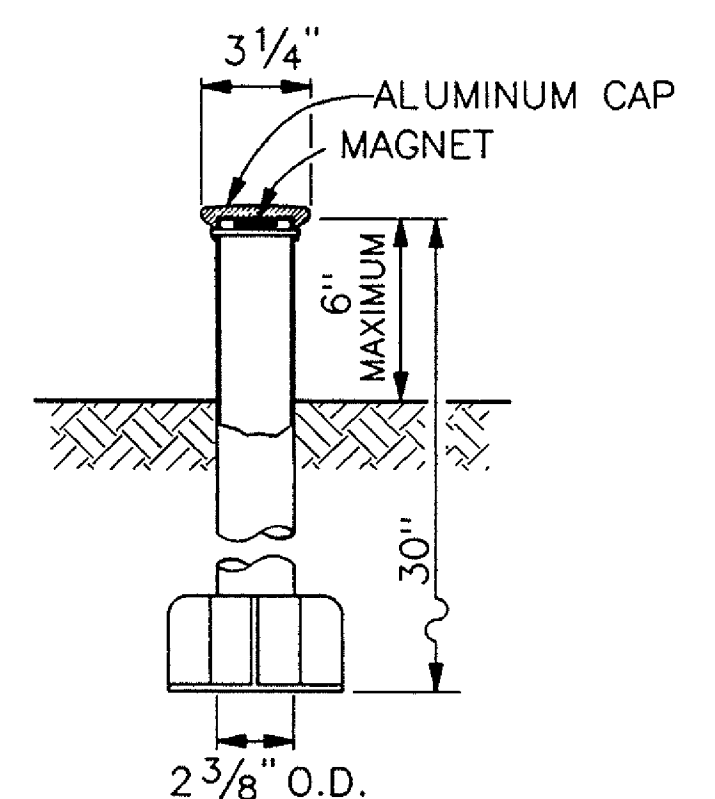
METAL SIGN PANEL



DELINEATOR POST

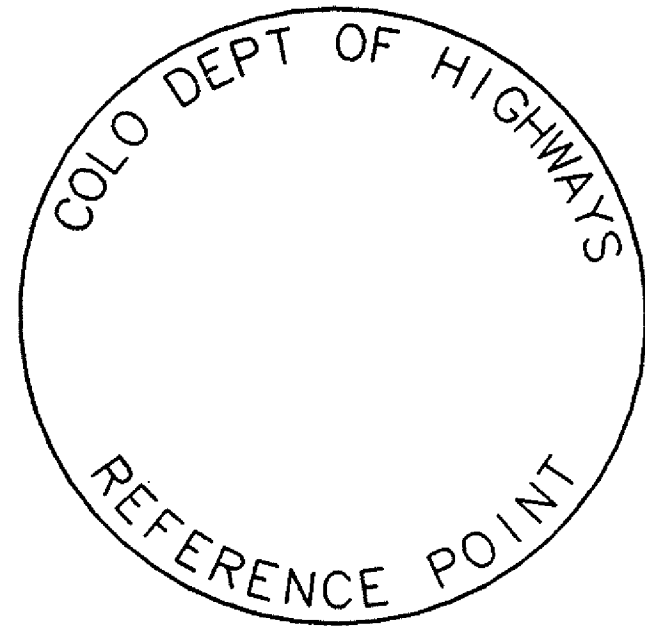


TYPE 3A MONUMENT,
ROADWAY INSTALLATION



TYPE 3 MONUMENT

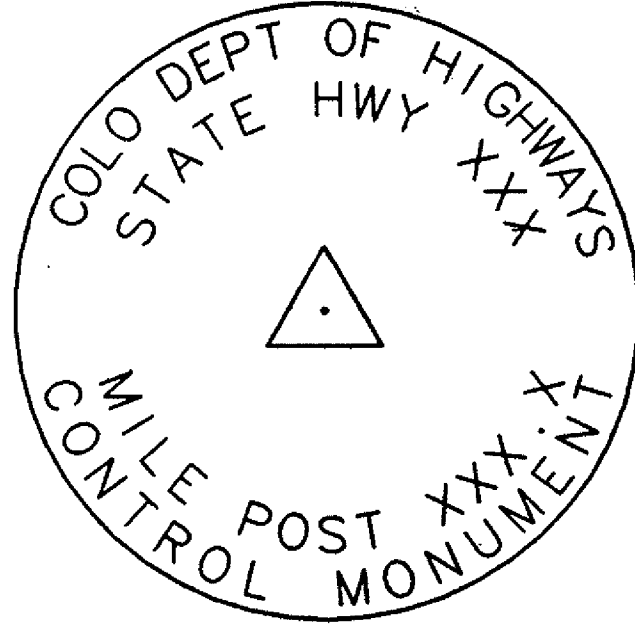
AS CONSTRUCTED			FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.
NO REVISIONS	REVISED	VOID	VIII	COLO.	CCII- 0036-08	9



REFERENCE MONUMENT CAP



ROW MONUMENT CAP

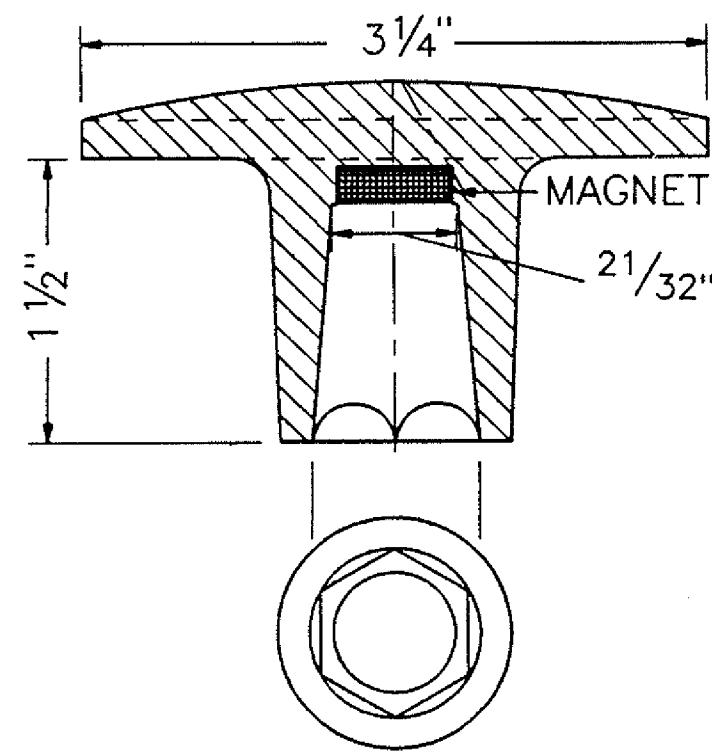


CONTROL MONUMENT CAP



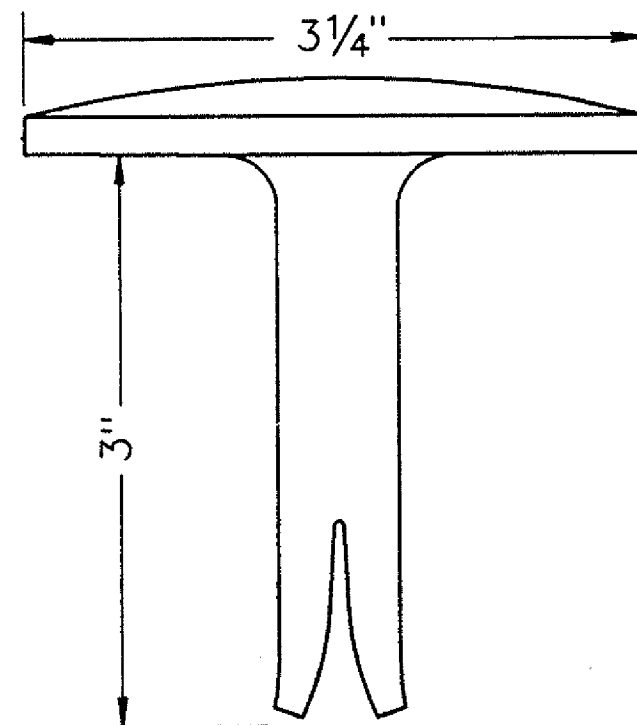
ALIQOT CORNER CAP

NOTE: (A BLANK CAP MAY BE SUBSTITUTED IF ANY ABOVE CAPS ARE NOT AVAILABLE.)



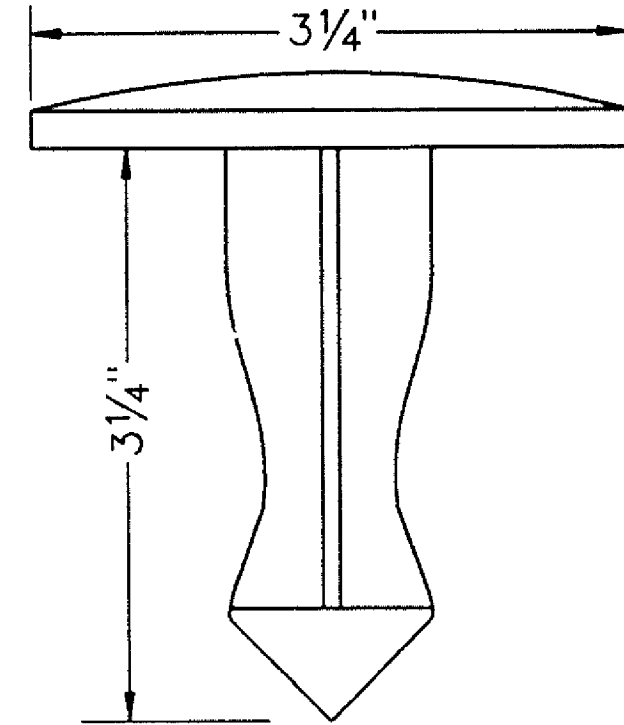
BRASS AND ALUMINUM CAPS

BRASS CAP USED WITH STAINLESS STEEL ROD. ALUMINUM CAP USED WITH ALUMINUM ROD. (THREADED CAP IS ALSO AVAILABLE)



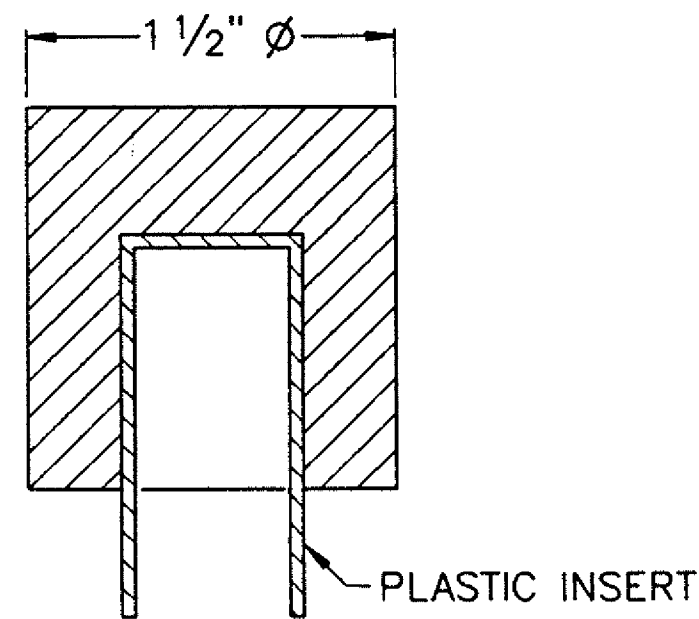
BRASS CAP

FOR PLACING IN EXISTING CONCRETE OR ROCK

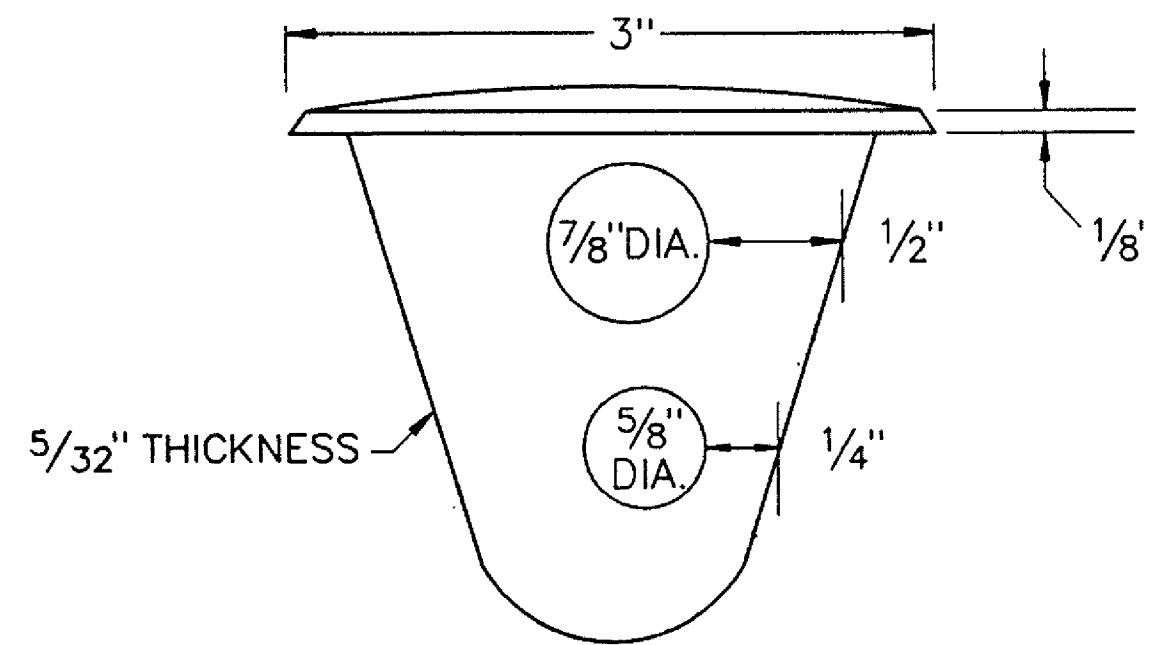


BRASS CAP

FOR PLACING IN EXISTING CONCRETE OR ROCK



TEMPORARY ALUMINUM CAP



BRASS CAP

INSTALL DURING PLACEMENT OF CONCRETE. PLACE A REINFORCING BAR THRU ONE HOLE.

TYPE 1 AND TYPE 1A ALUMINUM AND STAINLESS STEEL DRIVEN MONUMENTS

MONUMENTS ARE ASSEMBLED BY ATTACHING THE PROPER SIZE TIP TO ONE END OF A SECTION OF ROD AND THE 3" LONG x 3/4" DIA. STAINLESS STEEL DRIVER TO THE OTHER END. A STEEL DRIVER IS THEN PLACED OVER THE STAINLESS STEEL DRIVER FOR THE HAMMER TO CONTACT. WHEN ADDITIONAL SECTIONS OF ROD ARE NEEDED, THEY ARE TO BE ATTACHED USING A SET OF SELF-LOCKING WASHERS. RODS ARE STOCKED IN TWO FOOT AND THREE FOOT SECTIONS. ONE FOOT SECTIONS MAY BE OBTAINED BY CUTTING A TWO FOOT SECTION IN HALF. THE ROD SECTION IS DRIVEN BY USING THE PROPER HAMMER WITH A SOFT FACE. A POWER ADAPTER IS AVAILABLE FOR USE WITH A GASOLINE-POWERED DRIVER.

TYPE 1 MONUMENTS TYPICALLY USE A THREE FOOT SECTION OF ROD. WHEN SUBSURFACE ROCK OR CONCRETE IS ENCOUNTERED LESS THAN 3 FEET BELOW THE GROUND SURFACE, THE ROD SHALL BE EMBEDDED IN THE ROCK OR CONCRETE AT LEAST 6" WITH A GROUT MATERIAL. THE ROD MAY BE SHORTENED TO ACCOMMODATE THE CONDITIONS.

TYPE 1A MONUMENTS MAY BE DRIVEN TO REFUSAL BY THREADING ADDITIONAL SECTIONS ONTO THE FIRST SECTION. ADDED SECTIONS REQUIRE A SET OF LOCK WASHERS. REFUSAL IS DEFINED AS ONE INCH OF MOVEMENT WITH FOUR BLOWS OF A 12 LB. HAMMER. A DRIVEN CAP IS NECESSARY (VS. A THREADED CAP) WHEN A CUT ROD IS USED. THE SOFT FACED HAMMER IS ALSO REQUIRED TO SEAT THE DRIVEN CAPS ONTO THE ROD.

TYPE 2 AND TYPE 2A ALUMINUM FINNED ROD MONUMENTS

A TYPE 2 MONUMENT IS USED FOR HORIZONTAL CONTROL MONUMENTS WHERE LOOSE MATERIAL IS ENCOUNTERED. THE LARGER SIZE TIP IS TO BE USED ON ONE END OF THE THREE FOOT ROD AND THE FINNED TIP ON THE OTHER. THE FINNED TIP ON THE OPPOSITE END OF THE THREE FOOT ROD ARE TO BE BENT OVER TO ACCOMMODATE THE CAP. IF MORE VERTICAL STABILITY IS REQUIRED FOR USE AS A VERTICAL CONTROL MONUMENT, THE ADDED SECTIONS WHICH ARE NOT FINNED, SHOULD BE DRIVEN FIRST. THE NUMBER OF SECTIONS TO BE ADDED WILL VARY WITH NEEDS AND TYPE OF SOIL.

TYPE 1A MONUMENT NOTE ABOVE ALSO APPLIES TO TYPE 2A MONUMENT.

TYPE 3 AND TYPE 3A ALUMINUM PIPE MONUMENTS

THIS MONUMENT IS USED TO MONUMENT AN ALIQUOT CORNER. THE INSTALLATION OF THIS MONUMENT AND RECORD FILING SHALL BE DONE IN ACCORDANCE WITH THE COLORADO REVISED STATUTES, TITLE 38, ARTICLES 50 AND 51. ALSO REFER TO THE CDOH SURVEY MANUAL. THE LAND SURVEYOR'S LICENSE NUMBER AND THE YEAR SHALL BE STAMPED ON THE CAP.

TYPE 4 BRASS CAP MONUMENT

THIS MONUMENT IS PLACED IN CONCRETE, SUCH AS BRIDGE SUPER STRUCTURE CONCRETE. IT IS PLACED ABOVE A FOOTING SUPPORT OVER THE ABUTMENT OR OVER A PIER. AN ALTERNATE PLACEMENT IS VERTICALLY IN THE ABUTMENT WALL OR PIER IF ONLY AN ELEVATION REFERENCE IS DESIRED AND IT IS POSSIBLE TO LEAVE ACCESS FOR AN ELEVATION ROD.

TYPE 5 BRASS CAP MONUMENT

THIS MONUMENT IS PLACED IN LOCATIONS WHERE A TYPE 1 OR TYPE 1A MONUMENT CANNOT BE PLACED. A COMMON APPLICATION IS IN A LARGE BOULDER WHERE A PROPERTY CORNER HAS BEEN PLACED. THIS MONUMENT COULD ALSO BE PLACED IN A SIDEWALK.

WITNESS POSTS

THE WITNESS POST, WHEN REQUIRED, WILL BE SUPPLIED BY THE DIVISION AND INSTALLATION SHALL BE INCLUDED IN THE WORK. IT SHALL BE DRIVEN WITHIN 10 FEET OF THE MONUMENT, WHEN POSSIBLE. A DELINEATOR POST WITH A 6" x 10" METAL SIGN PANEL MAY BE USED IN LIEU OF THE PLASTIC POST. THIS POST IS TO CONFORM TO STANDARD S-612-1.

SELF-LOCKING WASHERS

A SET OF TWO WASHERS SHALL BE USED AT ROD JOINTS AND THREADED CAP JOINTS, BUT NOT AT TIP JOINTS.

TEMPORARY MONUMENTS

THIS CAP IS USED ON A #5 REBAR.

MONUMENT APPLICATION

CAP TYPE	MONUMENT TYPE							
	1	1A	2	2A	3	3A	4	5
REFERENCE	X	X					X	
ROW	X	X						X
CONTROL		X	X	X			X	
ALIQOT CORNER					X	X		
WITNESS POST (WHEN REQUIRED)	X	X	X	X	X			X