



2000 South Holly  
Denver, CO 80222  
Phone: 303-757-9922 FAX: 303-757-9390

Region 6:

SLK

## Sheet Revisions

Date	Description	Initials

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**HCL**  
Engineering &  
Surveying, LLC  
9570 KINGSTON CT, SUITE 310  
ENGLEWOOD, CO. 80112  
P: (303) 773-1605  
F: (303) 773-3297

## Right of Way Plans

## Title Sheet

Project Number: AQC 030A-028	
Project Location: HAMPDEN AVE. (SH 30): MONACO TO I-25 SIDEWALK	
Project Code: 17205	Last Mod. Date: 06-08-10
	Sheet No.: 1.01

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

## RIGHT OF WAY PLANS OF PROPOSED PROJECT NO. AQC 030A-028 STATE HIGHWAY NO. 30 CITY AND COUNTY OF DENVER

R.O.W. Length of Project = 0.008 Miles  
Const. Length of Project = 0.11 Miles

## SHEET NO.

1.01  
2.01  
3.01-3.03  
4.01  
5.01

## INDEX OF SHEETS

- (1) Title Sheet  
(1) Tabulation of Properties  
(3) Land Survey Control Diagram  
(1) Monumentation Sheet  
(1) Plan Sheets  
(7) Total Sheets

Scales of Original 11x17 Drawings  
Plan Sheets 1"=10'

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N17°25'47"E from NGS Point "JOG" to NGS Point "CENTER". The survey data was obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN). See sheet 3.01 for monument descriptions

1. This Right-of-Way Plan is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.

2. For title information, HCL Engineering & Surveying relied on Title Commitment 04171B2009, prepared by H.C. Peck & Associates, Inc.

3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDDT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

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.

### DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

AUTHORIZED:

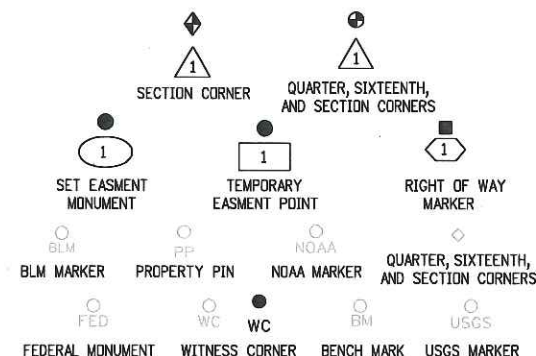
DATE

DIVISION ADMINISTRATOR

## SURVEYOR STATEMENT (ROW PLAN)

I, Robert C. Maestas, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan was prepared under my responsible charge 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.

PLS No. 34986



BLM MARKER PROPERTY PIN NOAA MARKER QUARTER, SIXTEENTH, AND SECTION CORNERS  
FEDERAL MONUMENT WITNESS CORNER BENCH MARK USGS MARKER  
LOCAL DR. PLSS. MONUMENT SECONDARY CONTROL MONUMENT RIGHT OF WAY MARKER  
PROJECT CONTROL MONUMENT DENSIFICATION CONTROL MONUMENT HIGH ACCURACY REFERENCE NETWORK CONTROL MONUMENT

PERMANENT, PROPERTY, SLOPE, & UTILITY EASEMENT LINE  
TEMPORARY EASEMENT LINE (EXISTING)  
PROPERTY BOUNDARY LINE (EXISTING AND PROPOSED)  
ACCESS CONTROL LINE  
BARRIER ACCESS CONTROL LINE

RIGHT OF WAY LINE  
VIRGIN RIGHT OF WAY LINE (PROPOSED)  
CITY LIMIT LINE (EXISTING)  
COUNTY LINE (EXISTING)  
QUARTER SECTION LINE  
SECTION LINE  
SIXTEENTH SECTION LINE  
STATE LINE (EXISTING)  
TOWNSHIP LINE (EXISTING)

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Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2006. Existing features are shown as screened weight (gray scale), except as noted with the word (existing). Proposed or new features are shown as full weight without screening, except as noted with the word (proposed).

## PROJECT LOCATION MAP

0' 2000' 4000' 8000'

1" = 4000'



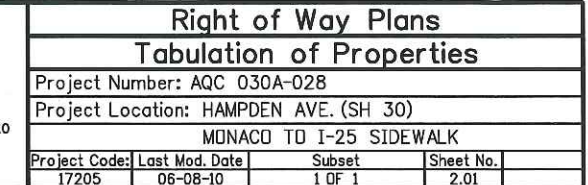
FILING CERTIFICATION: DAY OF \_\_\_\_\_, 20\_\_\_\_, AT \_\_\_\_\_ M.,  
DEPOSITED THIS \_\_\_\_\_ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY  
IN BOOK \_\_\_\_\_, RECEPTION NUMBER \_\_\_\_\_

SIGNED \_\_\_\_\_ DEPT. \_\_\_\_\_  
6/16/2010 richard 10:40:49 AM H:\092351.00 Hampden Ave. Sidewalks Gap Closure\1111\ROW\_Survey Drawings\REV\_ROW\_TitleSheet\_Fed\_LPA.dgn





Region 6: SLK

[illegible][illegible]

6/16/2010 richard 10:41:54 AM H:\092351.00 Hampden Ave. Sidewalks Gap Closure\11111\RDW\_Survey\Drawings\REV\_RDW\_TabProp01.dgn



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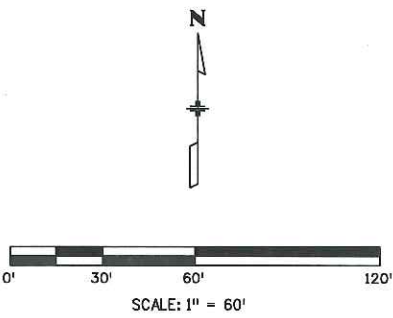
HAMPDEN AVE: MONACO TO I-25 SIDEWALK  
LAND SURVEY CONTROL DIAGRAM  
LOCATED IN SECTION 5  
T. 5S., R. 67W., 6TH P.M.  
DENVER COUNTY, STATE OF COLORADO



Land Survey Control Diagram

Plan Sheet

Project Number: AQC 030A-028			
Project Location: HAMPDEN AVE. (SH 30):			
MONACO TO I-25 SIDEWALK			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
17205	06-08-10	1 of 3	3.01



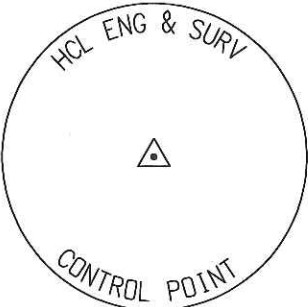
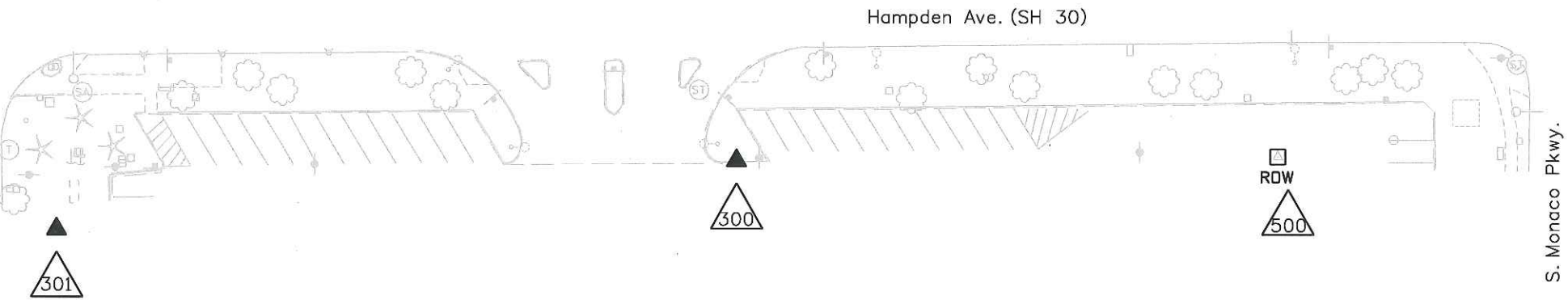
GEODETIC COORDINATE TABLE									
Point No.	Geodetic Coordinates NAD-83(92) (CHARN)		Elip Height (NAVD88) (m)	Ortho Height (m)	Mapping Angle	Grid Scale Factor	NAD 83(92) Zone 502		Description
	Latitude (N)	Longitude (W)					SP Northing (m)	SP Easting (m)	
JOG	39°34'05.17516"	104°52'18.24507"	1719.200	1796.419	0°23'46.46521"	1.000030923	497563.45500	968386.19600	NGS DISK IN CONCRETE (PRE 2007 ADJ.)
CENTER	39°42'20.42414"	104°48'52.04821"	1665.043	1682.560	0°25'56.51141"	1.000008468	512872.28200	973192.42900	STEEL ROD (PRE 2007 ADJ.)
500	39°39'10.12847"	104°54'48.36102"	1677.830	1695.072	0°22'11.78864"	1.000256696	506944.09900	964742.50300	FOUND ILLEGIBLE 3-1/2" ALUMINUM CAP
300	39°39'10.12448"	104°54'51.12566"	1680.567	1697.809	0°22'10.04502"	1.000256695	506943.55100	964676.59700	SET #5 REBAR WITH 2" ALUMINUM CAP
301	39°39'09.86753"	104°54'54.61812"	1684.164	1701.400	0°22'07.84235"	1.000256683	506935.09000	964593.39000	SET #5 REBAR WITH 2" ALUMINUM CAP

INDEXING STATEMENT

DEPOSITED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_, AT \_\_\_\_\_, M.,  
IN BOOK \_\_\_\_\_ OF THE COUNTY SURVEYOR'S LAND SURVEY/RIGHT-OF-WAY  
SURVEYS AT PAGE(S) \_\_\_\_\_, RECEPTION NUMBER \_\_\_\_\_

COUNTY SURVEYOR/DEPUTY COUNTY SURVEYOR

PROJECT COORDINATE TABLE				
Point No.	Project Coordinates		Elev (ft) (NAVD88)	Description
	Northing (ft)	Easting (ft)		
300	663653.81500	165811.84800	5570.230	SET #5 REBAR WITH 2" ALUMINUM CAP
301	663626.04900	165538.78500	5582.010	SET #5 REBAR WITH 2" ALUMINUM CAP
500	663655.61400	166028.13500	5561.250	FOUND ILLEGIBLE 3-1/2" ALUMINUM CAP



TYPICAL CONTROL  
MONUMENT CAP  
NOT TO SCALE

BASIS OF BEARING

All bearings are based on the line connecting NGS Controlpoints "JOG" (an NGS disk in concrete) and "CENTER" (a steelrod) being a grid bearing of N 17°25'47" E. The survey data was obtained from a Global Positioning System (GPS) survey based on the Colorado high Accuracy Reference network (CHARN).

BASIS OF ELEVATION

Project elevations are GPS derived, using GEDID 03, based on a NAVD 88 elevation of 5487.78sft on NGS Benchmark "K 406" (NGS stainless steelrod in logo box).

COORDINATE DATUM

Project coordinates are modified Colorado State Plane Central Zone NAD 83(92) coordinates. The CHARN is based on NAD 83(92) Datum. The project seed point coordinates are: Northing = 1,663,197.30sft, Easting = 3,164,943.135sft. The ground scale factor used to modify the coordinates is 1.0002744809. Project Coordinates are truncated by 1,000,000sft in the Northing and 3,000,000sft in the Easting. To get from Project to State Plane coordinates: Add the truncation, and then divide by the scale factor to the seed coordinate listed above.

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.

NOTE: No guarantee as to the accuracy of the information contained on the attached drawing is either stated or implied inless this copy bears an original signature of the professional land surveyor named hereon.

NOTE: Project control shown hereon conforms to CDDT Class A Control (+/- 0.07' with 95% certainty) accuracy.

SURVEYOR STATEMENT

I, Richard D. Muntean, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation 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.

Richard D. Muntean PLS No. 38189      Date

richard 9:56:25 AM H:\092351.00 Hampden Ave. Sidewalks Gap Closure\1111\ROW\_Survey\Drawings\REV\_17205SURV\_LSCD-1.dgn





Colorado Department of Transportation

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Region 6:

SLK

Sheet Revisions		
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HAMPDEN AVE: MONACO TO I-25 SIDEWALK

LAND SURVEY CONTROL DIAGRAM

LOCATED IN SECTION 5

T. 5S., R. 67W., 6TH P.M.

DENVER COUNTY, STATE OF COLORADO



HCL

Engineering & Surveying, LLC

9570 KINGSTON CT., SUITE 310  
ENGLEWOOD, CO. 80112  
P: (303) 773-1805  
F: (303) 773-3297

Land Survey Control Diagram			
Plan Sheet			
Project Number: AQC 030A-028			
Project Location: HAMPDEN AVE. (SH 30):			
MONACO TO I-25 SIDEWALK			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
17205	06-08-10	2 of 3	3.02

**BASIS OF BEARING:**  
All bearings are based on the north line of the NW 1/4 of Section 5, T. 5S., R. 67W. of the 6th P.M. as monumented by a 3-1/4" Aluminum cap stamped "Colo Dept. of Highways, PLS 14157, 1989" at the NW corner of Section 5, T. 5S., R. 67W. of the 6th P.M. and a 3-1/4" Aluminum cap stamped "PLS 29420, 2002" at the N 1/4 corner of Section 5, T. 5S., R. 67W. of the 6th P.M. being a Grid bearing of N 89° 33' 09" E 2,642.07' as obtained from a global positioning system (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN). Said grid bearing is NAD (1992) Colorado State Plane Central Zone 502.

**BASIS OF ELEVATION:**  
Project elevations are GPS derived, using GEOID 03, based on a NAVD 88 elevation of 5487.78sft on NGS Benchmark "K 406" (NGS stainless steelrod in logo box).

**COORDINATE DATUM:**  
Project coordinates are modified Colorado State Plane Central Zone 502 NAD 83(92) coordinates. The CHARN is based on NAD 83 (92) Datum. The project seed point coordinates are: Northing = 1,663,197.30sft, Easting = 3,164,943.135sft. The ground scale factor used to modify the coordinates is 1.0002744809. Project coordinates are truncated by 1,000,000sft in the northing and 3,000,000sft in the Easting. To get from Project to State Plane coordinates: Add the truncation, then divided by the scale factor to the seed coordinate listed above.

**NOTE:** This map does not represent a boundary survey or title search performed by HCL Engineering & Surveying, LLC. There may exist easements and/or other encumbrances affecting the subject properties that are not shown hereon.

**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.

richard 12:23:03 PM H:\092351.00 Hampden Ave. Sidewalks Gap Closure\11111\RDW\_Survey Drawings\REV17205\RDW\_Plan\_SCD2.dgn



Sheet Revisions

Date	Description	Initials

HAMPDEN AVE: MONACO TO I-25 SIDEWALK  
LAND SURVEY CONTROL DIAGRAM  
LOCATED IN SECTION 5  
T. 5S., R. 67W., 6TH P.M.  
DENVER COUNTY, STATE OF COLORADO



Land Survey Control Diagram

Tabulation Sheet

Project Number: AQC 030A-028			
Project Location: HAMPDEN AVE. (SH 30)			
MONACO TO I-25 SIDEWALK			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
17205	08-17-09	3 of 3	3.03



FOUND ALIQUOT MONUMENT COORDINATE TABLE (PROJECT COORDINATES)

Point No.	Northing(ft)	Easting(ft)	Location	Description
400	661128.30	166145.56	NW CORNER S. 5, T. 5S., R. 67W., 6TH P.M.	FND 3-1/4" ALUMINUM CAP IN RANGE BOX PER MON.REC. BY LS 34579
401	663736.93	163530.42	C 1/4 S. 5, T. 5S., R. 67W., 6TH P.M	FND 3" BRASS CAP IN RANGE BOX PER MON. REC. BY LS 16398
402	663757.57	166172.41	N 1/4 S. 5, T. 5S., R. 67W., 6TH P.M	FND 3-1/4" ALUMINUM CAP IN RANGE BOX PER MON.REC. BY LS 29420



RDW

FOUND R.O.W. MONUMENT COORDINATE TABLE (PROJECT COORDINATES)

Point No.	Northing(ft)	Easting(ft)	Description
500	663655.61	166028.13	FND 3-1/2" ILLEGIBLE ALUMINUM CAP



PP

FOUND BOUNDARY MONUMENT COORDINATE TABLE (PROJECT COORDINATES)

Point No.	Northing(ft)	Easting(ft)	Description
501	663651.06	165556.87	FND BENT #5 REBAR W/ NO CAP
502	662491.86	166089.45	FND MAG NAIL W/ 1-1/4" BRASS TAG PLS 23899
503	663063.09	165561.88	FND #5 REBAR W/ 1-1/2" ALUMINUM CAP PLS 23529
504	662434.98	165308.28	FND 3-1/4" ALUMINUM CDOT R.O.W MON. PLS 22088
505	663058.12	165066.17	FND #5 REBAR W/ 1-1/2" ALUMINUM CAP PLS 23529
506	663058.30	165085.67	FND #5 REBAR W/ YELLOW PLASTIC CAP CR MORE PLS 10945
507	663304.57	165042.09	FND 3-1/4" ALUMINUM CDOT R.O.W MON. PLS 22088
508	663304.97	165047.34	FND 3-1/4" ALUMINUM CDOT R.O.W MON. PLS 22088
509	663645.40	165015.99	FND #5 REBAR W/ 1-1/2" ALUMINUM CAP PLS 23529
510	663351.72	166138.43	FND 1" REBAR IN RANGE BOX
511	663052.24	166135.20	FND 1" REBAR IN RANGE BOX



■  
XXX

TABULATION OF R.O.W. MONUMENTS TO BE SET					
Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
700	663677.28	166080.28	CDOT Type I Monument	7+09.12	0.50' RT.
701	663677.35	166086.79	CDOT Type I Monument	7+15.05	0.50' RT.
702	663678.90	166097.36	CDOT Type I Monument	7+24.74	0.50' RT.
703	663679.07	166121.60	CDOT Type I Monument	7+49.99	0.50' RT.

●

TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED					
Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
704	663663.84	166086.66	N/A	7+14.76	14.01' RT.
705	663664.07	166121.45	N/A	7+49.73	15.50' RT.

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TABULATION OF FOR INFORMATION ONLY POINTS				
Point No.	Northing(ft)	Easting(ft)	Station	Offset
705	663694.11	166121.76	7+50.24	14.54' LT

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE										
ROW	4									
CONTROL										
ALIQUOT CORNER										
PERMANENT EASEMENT										
PROJECT POINTS										
WITNESS POST (REQUIRED)	4									

General Notes:

- All centerline and offset stationing may not represent the centerline as constructed in the field.
- 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.
- This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(92) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.0002744809. The resulting project coordinates are truncated by 1,000,000sft in the Northing and 3,000,000sft in the Easting after converting from state plane coordinates to project coordinates. The CHARN is based on the NAD '83(92) datum. Project Coordinates Northing US Survey Feet = (State Plane Coordinate Northing \* 1.0002744809 - 1,000,000) \* (3937/1200). Project Coordinates Easting US Survey Feet = (State Plane Coordinate Easting \* 1.0002744809 - 3,000,000) \* (3937/1200).

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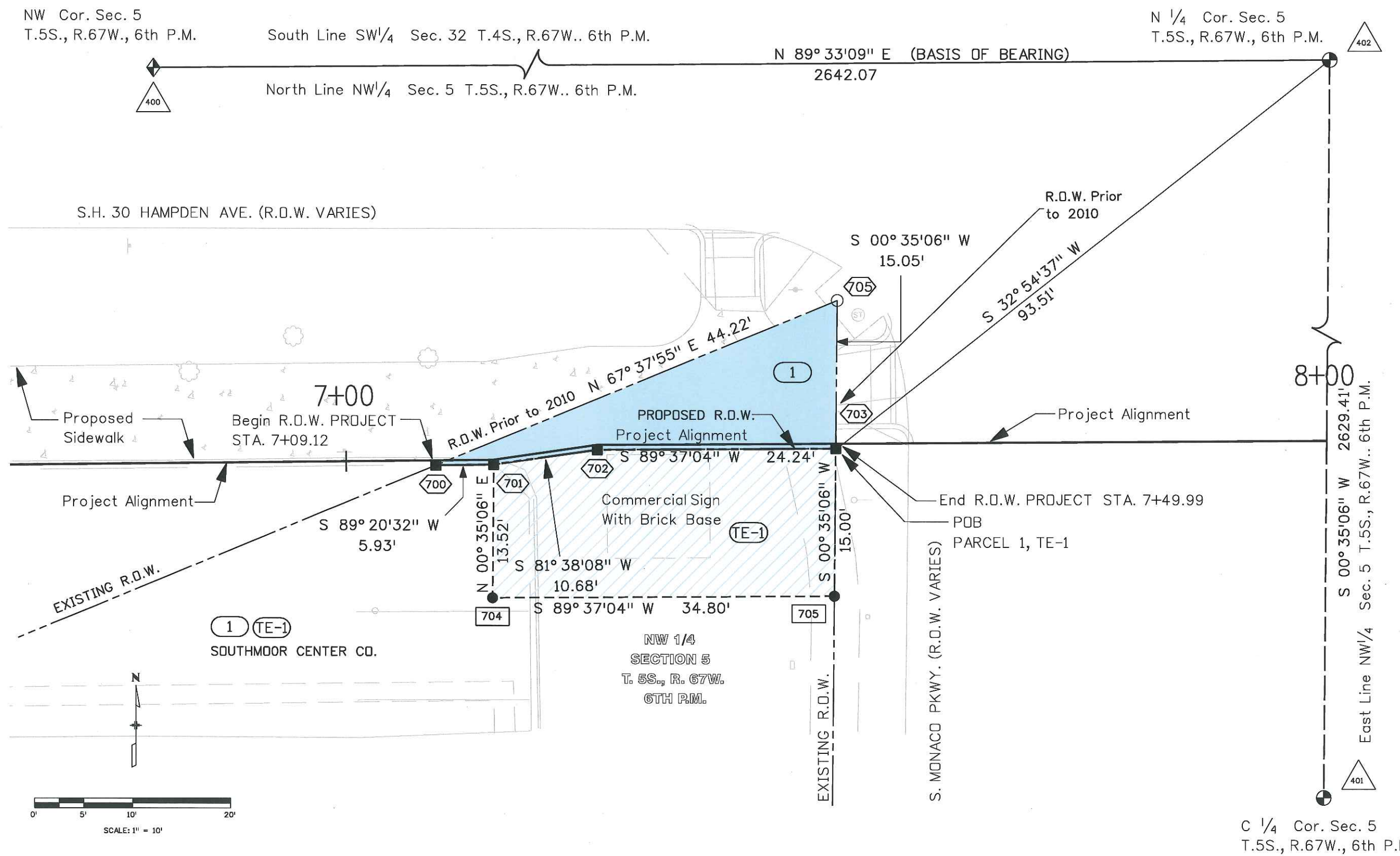
<div>SURVEYOR STATEMENT (R.O.W. MONUMENTS)</div> <div>I, _____, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, adequate research, calculations and evaluation of survey evidence were performed and the Right-of-Way monuments depicted on this Right-of-Way Plan were set under my responsible charge 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.</div> <div>PLS No. xxxxx</div>	
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Right of Way Plans			
Plan Sheet			
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Project Location: HAMPDEN AVE. (SH 30)			
Project Location: MONACO TO I-25 SIDEWALK			
Project Code: 17205	Last Mod. Date: 06-08-10	Subset Sheets: 1 of 1	Sheet No.: 5.01



Richard 10:38:54 AM H:\092351.00 Hampden Ave. Sidewalks Gap Closure\11111\ROW\_Survey\Drawings\11111\ROW\_Plan1.dgn