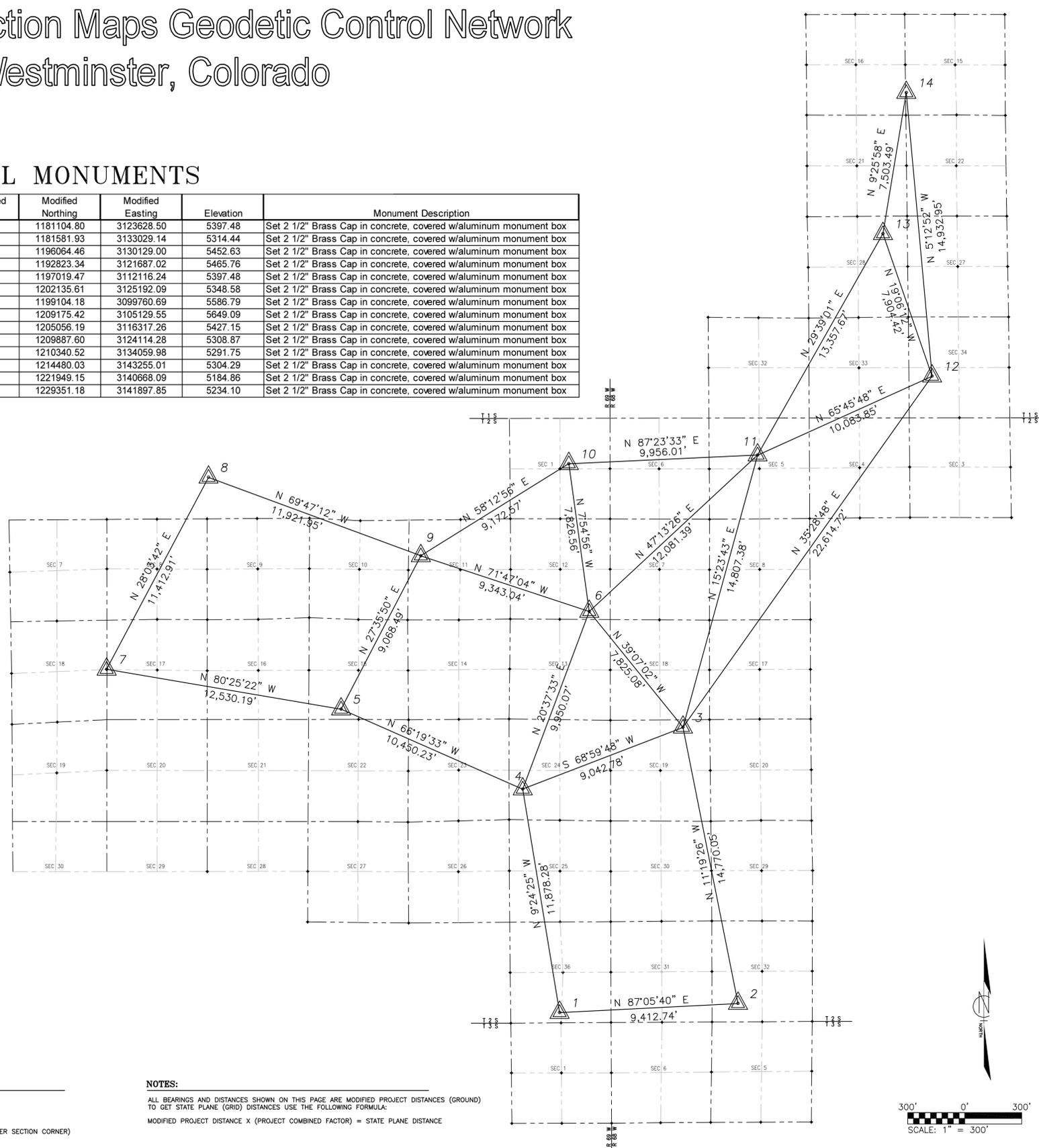


Section and Quarter Section Maps Geodetic Control Network City of Westminster, Colorado

PRIMARY CONTROL MONUMENTS

Station Name	Latitude	Longitude	Ellipsoid Height	State Plane Northing	State Plane Easting	Modified Combined Factor	Modified Northing	Modified Easting	Elevation	Monument Description
1	39°49'43.557619"N	105°03'46.558589"W	5342.29	1180773.70	3122752.85	0.99971967	1181104.80	3123628.50	5397.48	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
2	39°49'47.796295"N	105°01'46.065083"W	5258.66	1181250.70	3132150.85	0.99971967	1181581.93	3133029.14	5314.44	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
3	39°52'11.032329"N	105°02'22.264814"W	5396.85	1195729.17	3129251.53	0.99971967	1196064.46	3130129.00	5452.63	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
4	39°51'39.429440"N	105°04'10.708261"W	5410.53	1192488.96	3120811.91	0.99971967	1192823.34	3121687.02	5465.76	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
5	39°52'21.327555"N	105°06'13.167351"W	5342.80	1196683.91	3111243.82	0.99971967	1197019.47	3112116.24	5397.48	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
6	39°53'11.262996"N	105°03'25.176095"W	5293.03	1201798.62	3124316.01	0.99971967	1202135.61	3125192.09	5348.58	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
7	39°52'42.439587"N	105°08'51.489322"W	5532.91	1198768.03	3098891.74	0.99971967	1199104.18	3099760.69	5586.79	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
8	39°54'21.725983"N	105°07'42.100355"W	5594.70	1208836.45	3104259.09	0.99971967	1209175.42	3105129.55	5649.09	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
9	39°53'40.540349"N	105°05'18.822073"W	5372.09	1204718.37	3115443.66	0.99971967	1205056.19	3116317.26	5427.15	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
10	39°54'27.904535"N	105°03'38.506436"W	5253.27	1209548.43	3123238.50	0.99971967	1209887.60	3124114.28	5308.87	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
11	39°54'31.872925"N	105°01'30.882422"W	5235.56	1210001.23	3133181.41	0.99971967	1210340.52	3134059.98	5291.75	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
12	39°55'12.267294"N	104°59'32.614152"W	5247.53	1214139.57	3142373.86	0.99971967	1214480.03	3143255.01	5304.29	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
13	39°56'26.205742"N	105°00'05.268716"W	5128.08	1221606.60	3139787.67	0.99971967	1221949.15	3140668.09	5184.86	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box
14	39°57'39.267660"N	104°59'48.945622"W	5177.20	1229006.56	3141017.08	0.99971967	1229351.18	3141897.85	5234.10	Set 2 1/2" Brass Cap in concrete, covered w/aluminum monument box



PROJECT DATUM

Geodetic coordinates are based on NAD 83/92
 Orthometric Heights are based on the NAVD 88 VERTICAL DATUM
 State Plane coordinates are based on the NAD 83 (HARN) Colorado North Zone (0501)
 Units are US Survey Feet (sft)

AVERAGE PROJECT HORIZONTAL LOCATION:

Project coordinates were modified to ground at:
 Primary Control Number 6
 Latitude = 39° 53' 11.262996" North
 Longitude = 105° 03' 25.176095" West
 Scale Factor = 0.9997694

AVERAGE PROJECT HEIGHT AND ELEVATION:

Project Ellipsoid Height = 5324.44 survey feet
 Project Elevation (AMSL) = 5380.00 survey feet
 Elevation Scale Factor = 0.999742724

PROJECT SCALE FACTORS:

Project (Ground) coordinates are Modified State Plane
 Project Combined factor = 0.999719670
 Reciprocal = 1.000280409
 Calculation of Project Combined Factor:
 Scale Factor x Elevation Factor = Project Combined Factor

Project coordinates were not truncated for this project.

Orthometric Heights (Elevations) for the Primary Control were established by Level Circuits.

PRIMARY CONTROL

Bohannon Huston, Inc. set fourteen (14) primary control monuments in areas that would be less likely to be disturbed and on City of Westminster owned property. These monuments were set to perpetuate the control network into the future, as well as have a primary control network that could be utilized for GPS observations. The primary control monuments were spaced at approximately three mile intervals from each other.

The monuments consist of the following:
 2 - 1/2" Brass Cap, stamped "City of Westminster" set in concrete and covered with a aluminum monument box cover stamped "City of Westminster". The following is a standard cap and stamping:



LEGEND

- PRIMARY CONTROL MONUMENT (AS NOTED IN TABLE)
- SECONDARY CONTROL MONUMENT (SECTION OR QUARTER SECTION CORNER)

NOTES:

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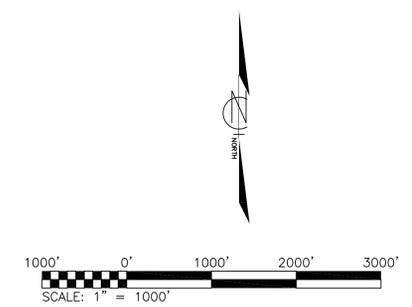
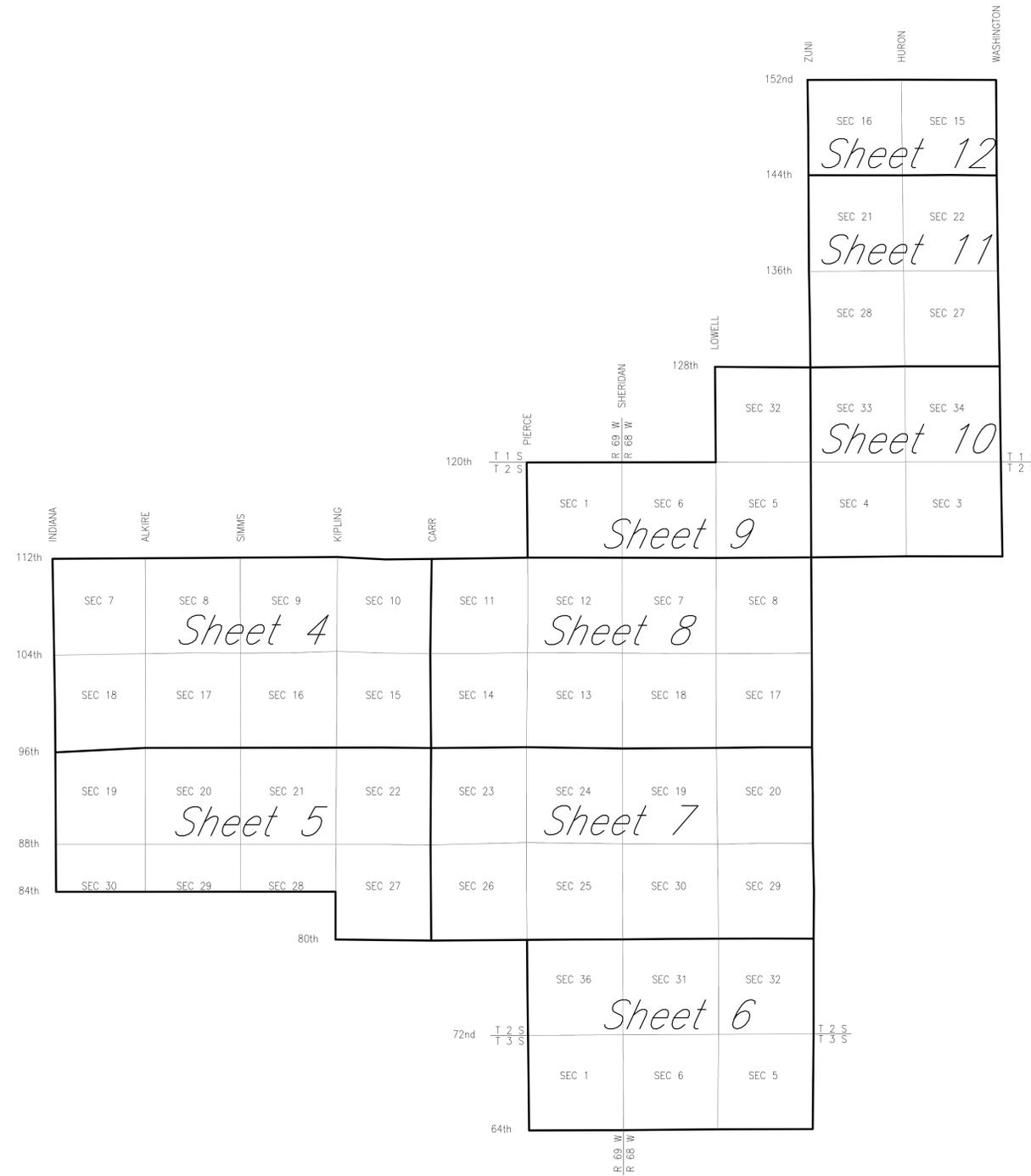
GEODETIC CONTROL NETWORK
 SECTION AND QUARTER SECTION MAPS
 WESTMINSTER, COLORADO

CLIENT PROJECT NO. _____
 BHI PROJECT NO. 080036
 SCALE: SCALE AS SHOWN

**GEODETIC CONTROL NETWORK
 PRIMARY CONTROL**

REVISION: 00 DRAWING NO: 080036-SHT02 SHEET NO: 2 OF 14

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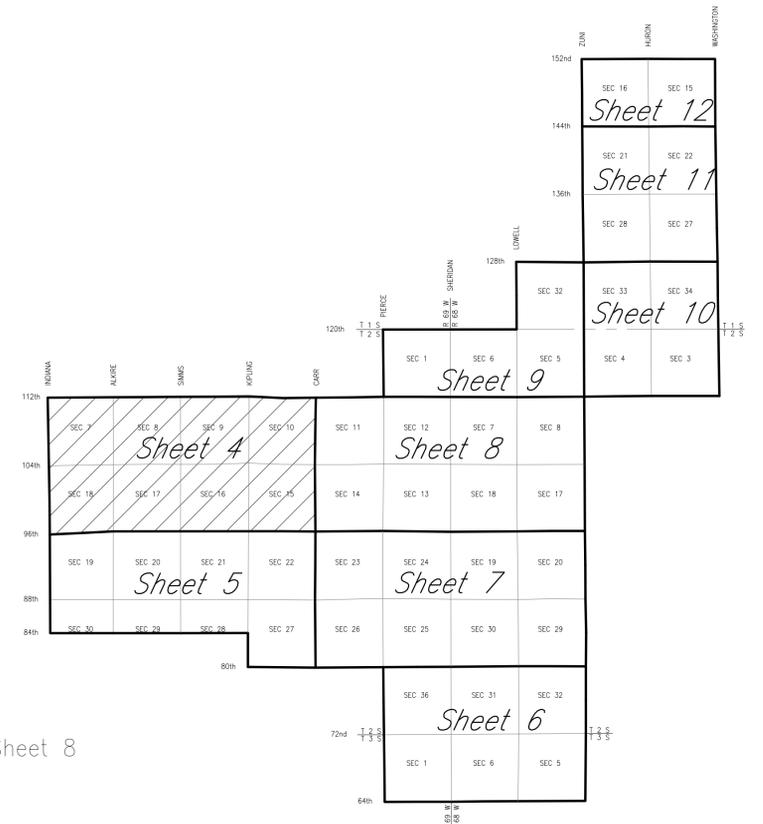
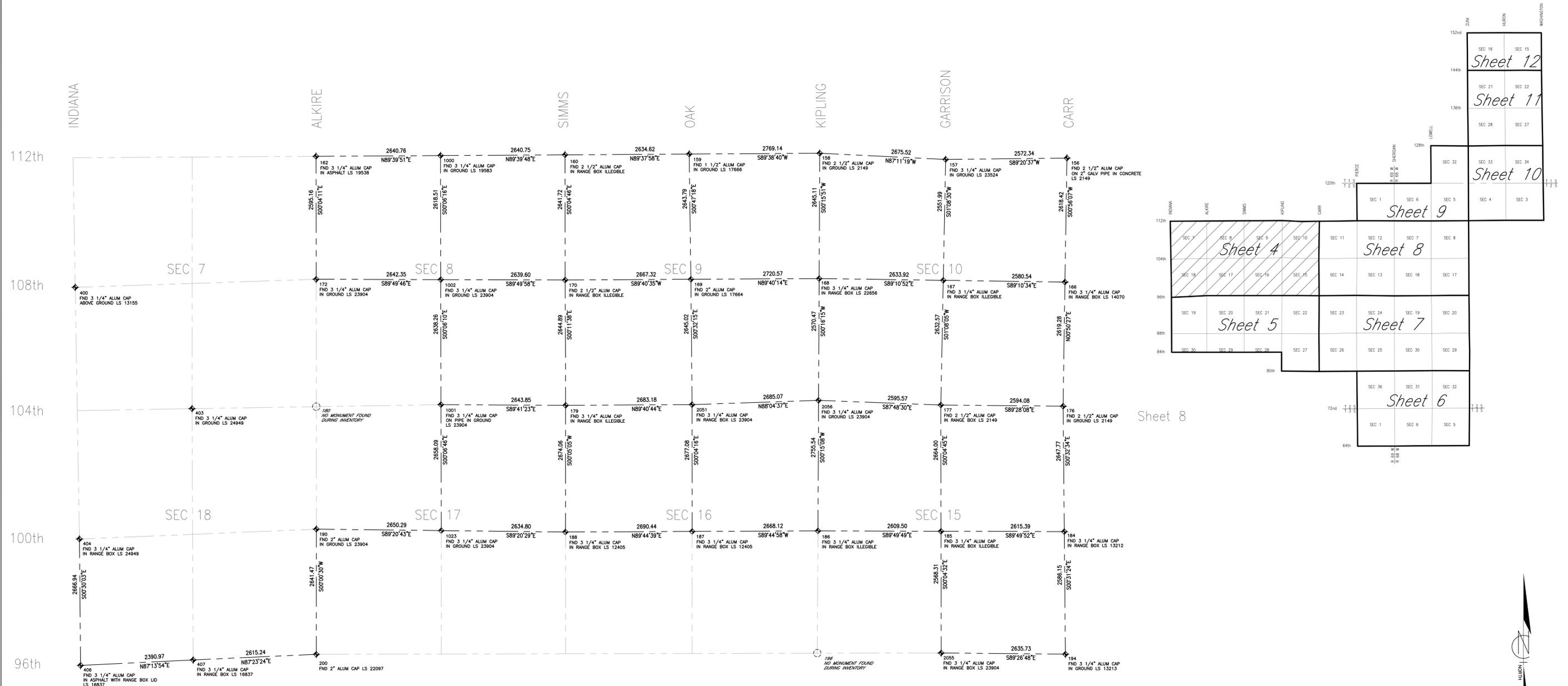
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Section and Quarter Section Maps Geodetic Control Network City of Westminster, Colorado



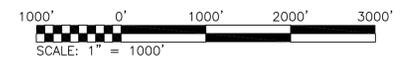
Sheet 5

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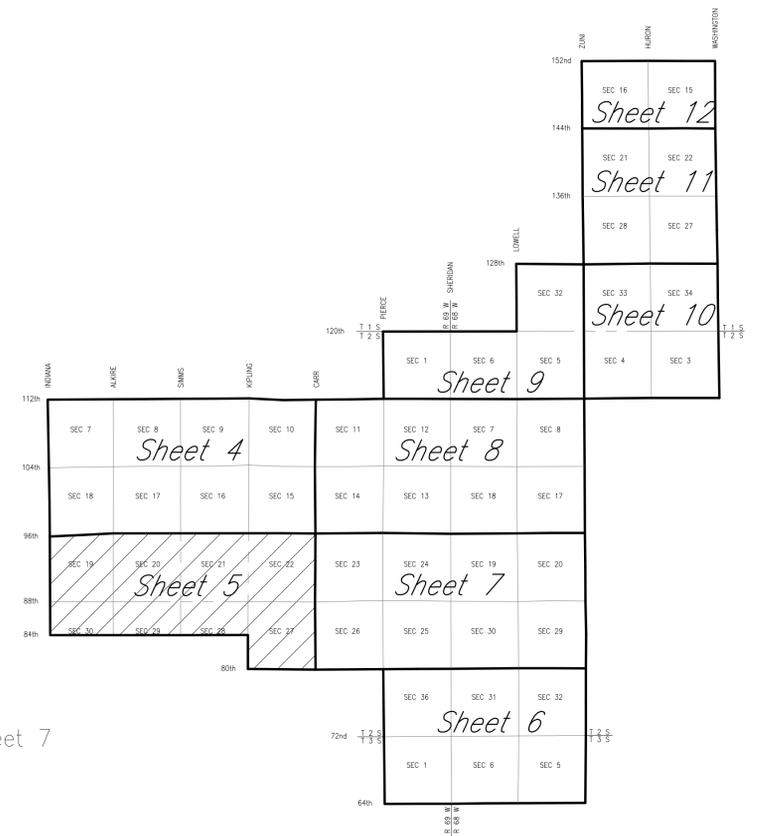
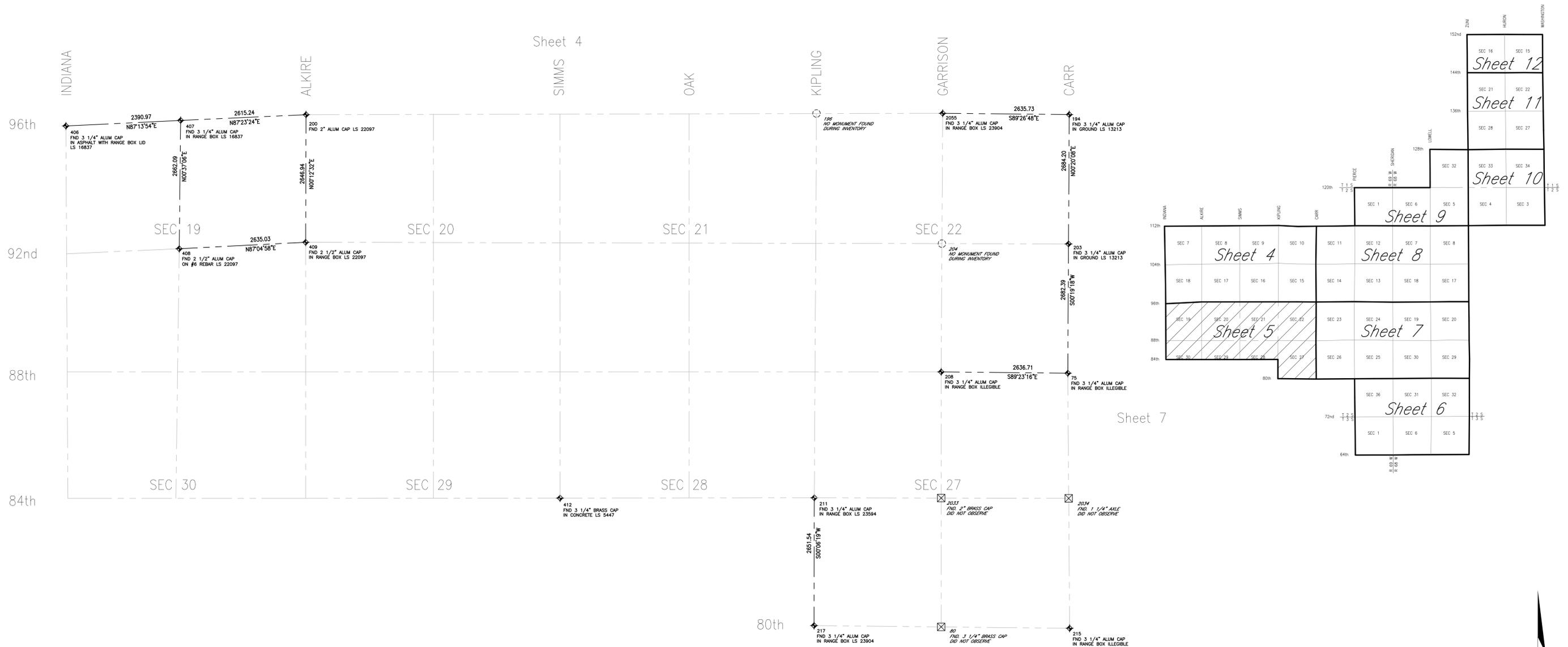
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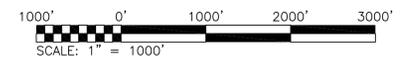


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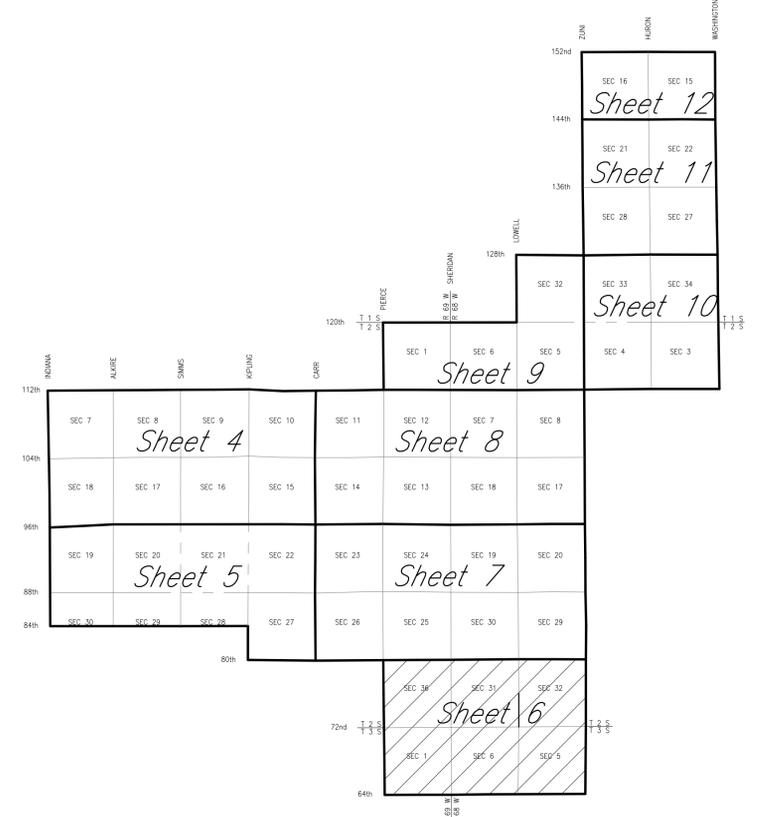
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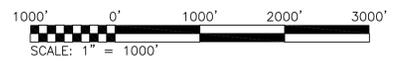
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Section and Quarter Section Maps Geodetic Control Network City of Westminster, Colorado



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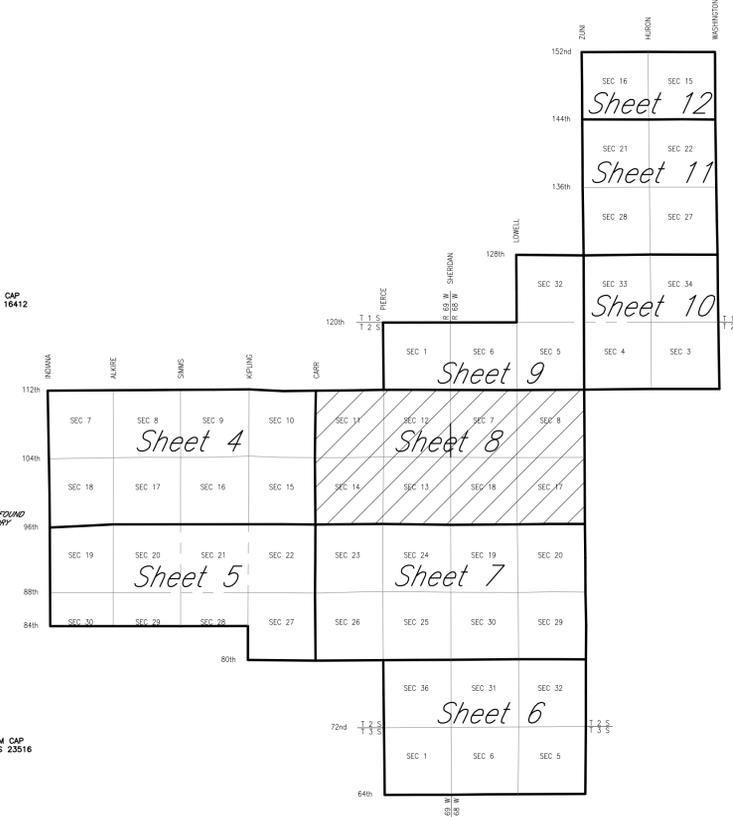
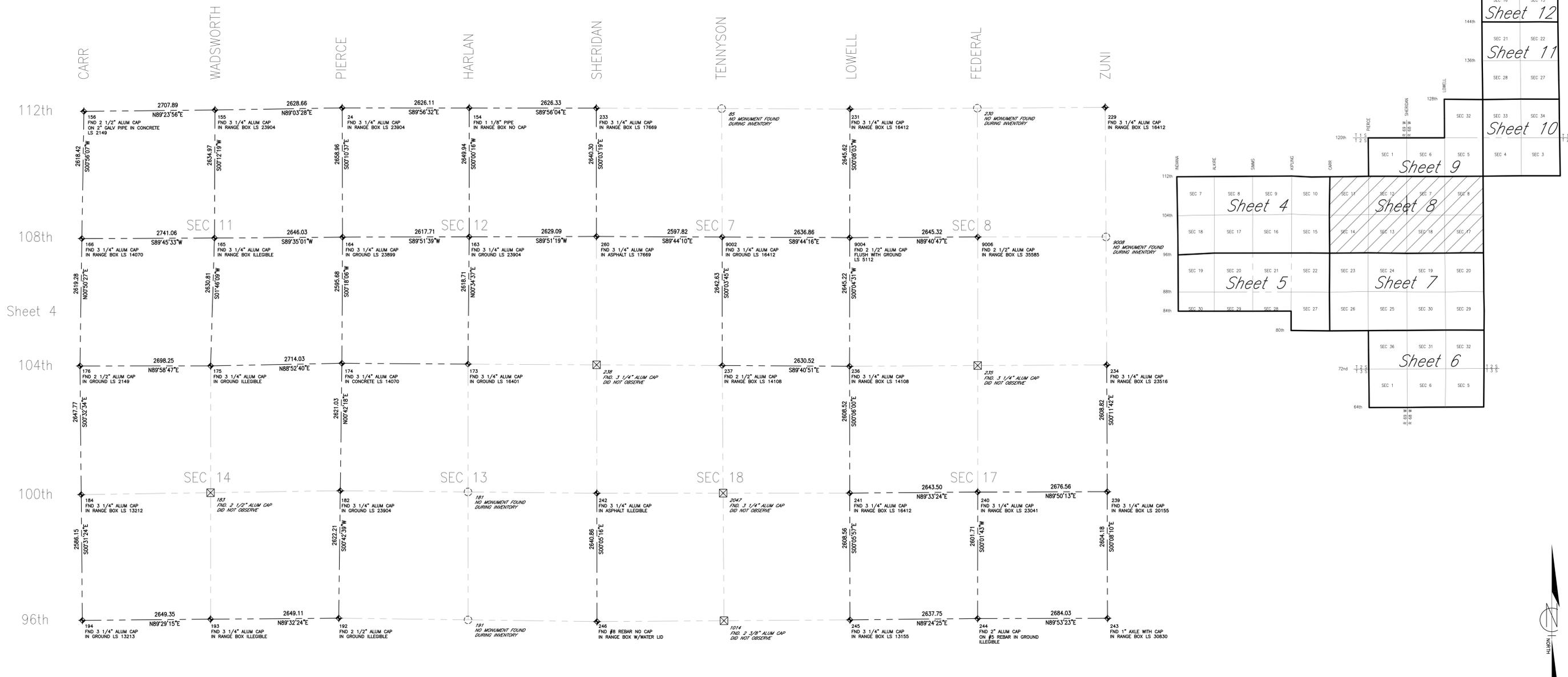
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Sheet 9

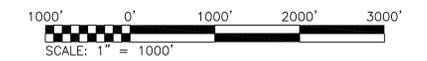


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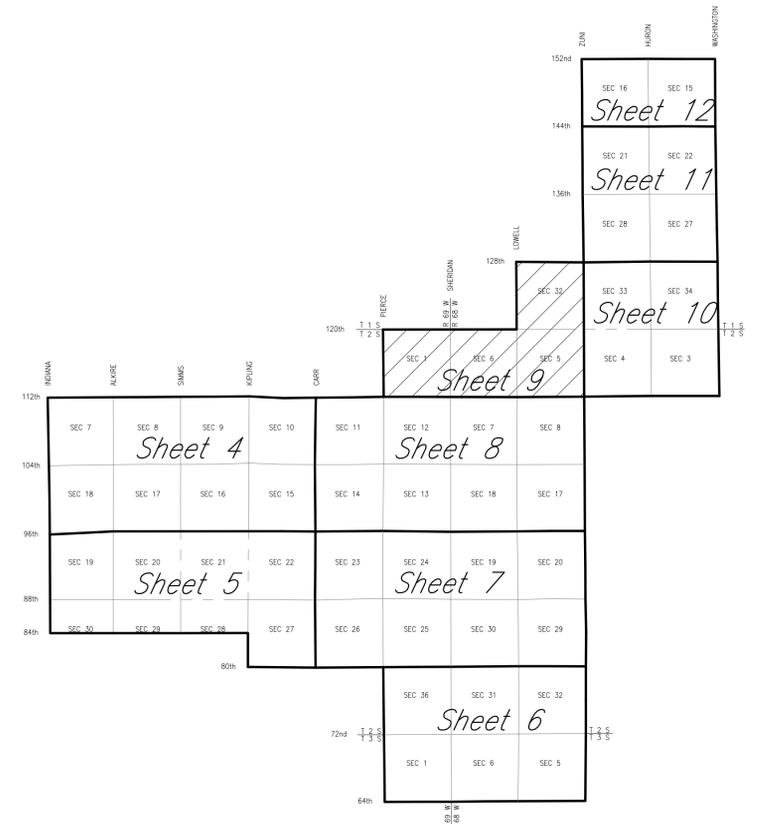
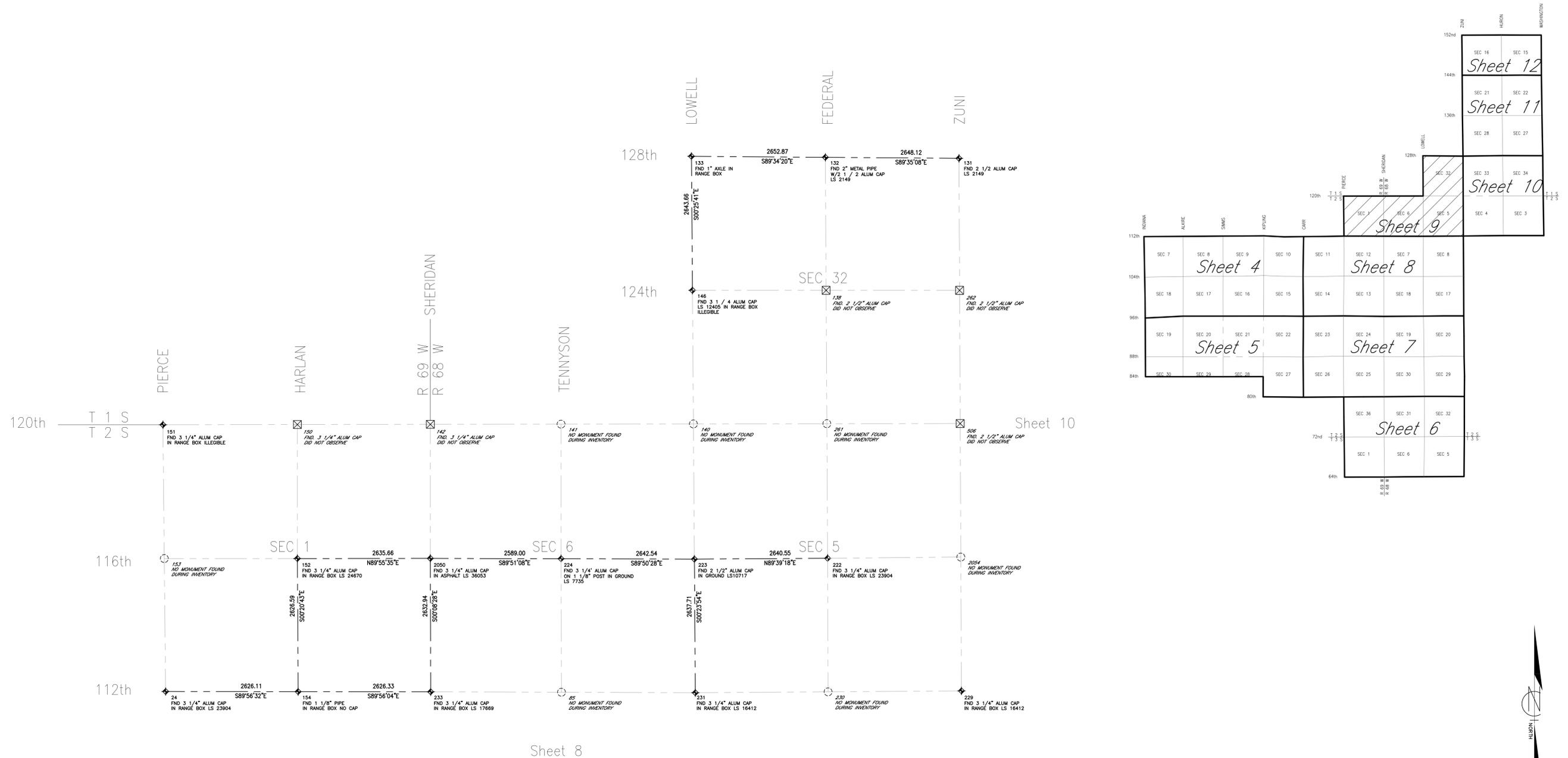
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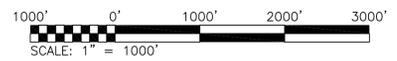
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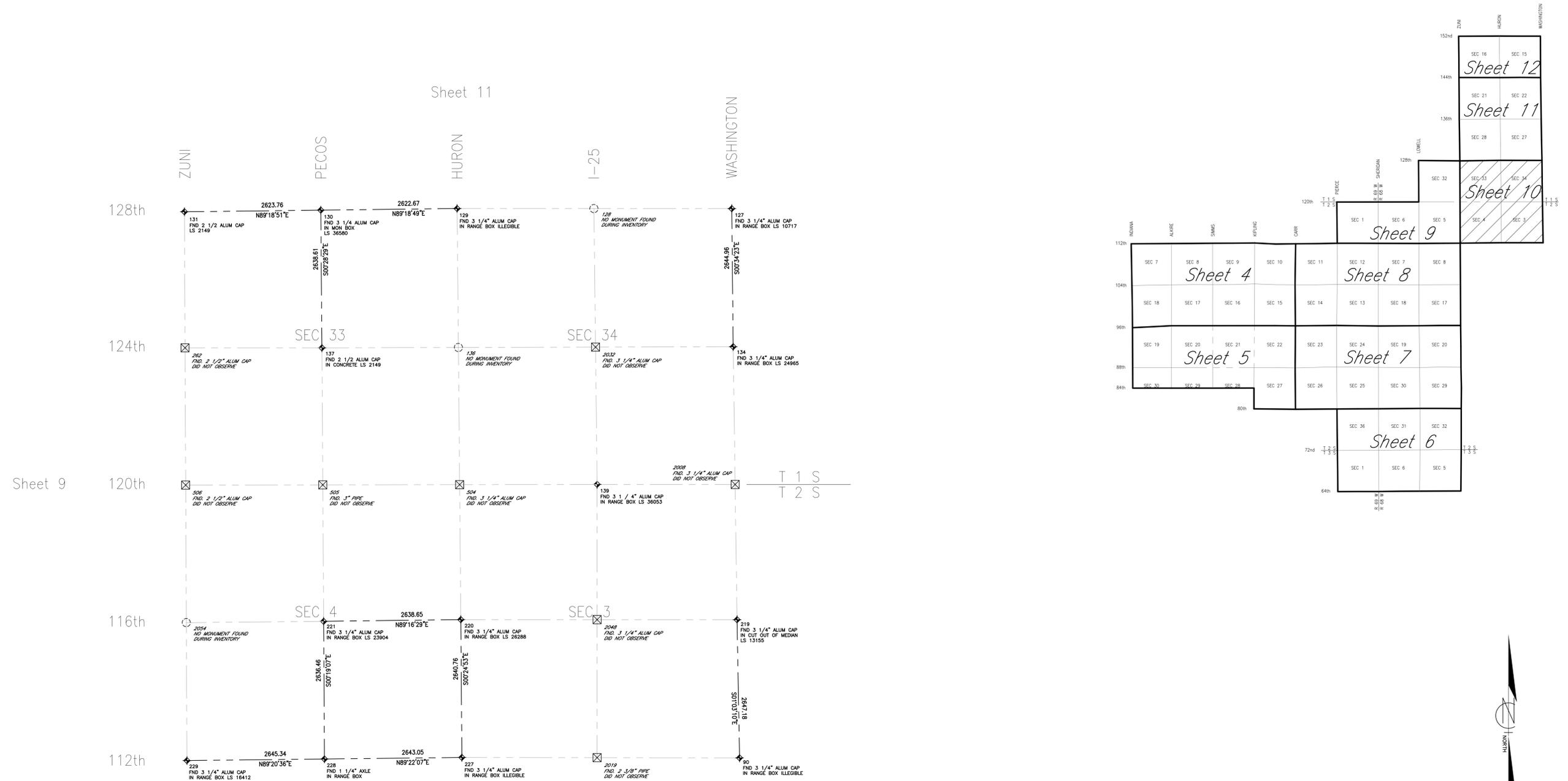
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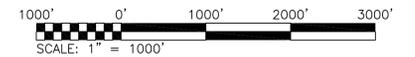
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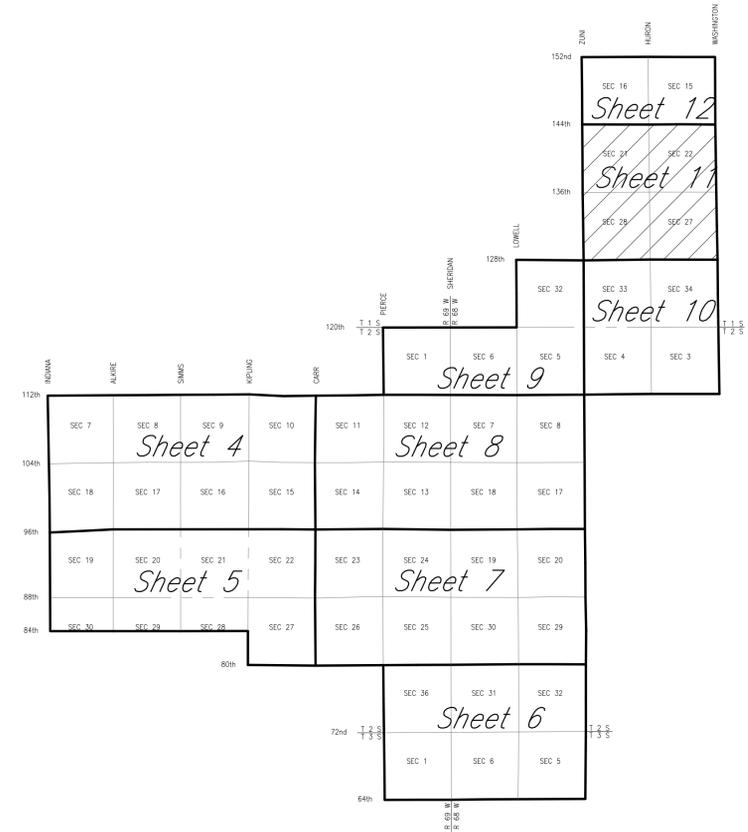
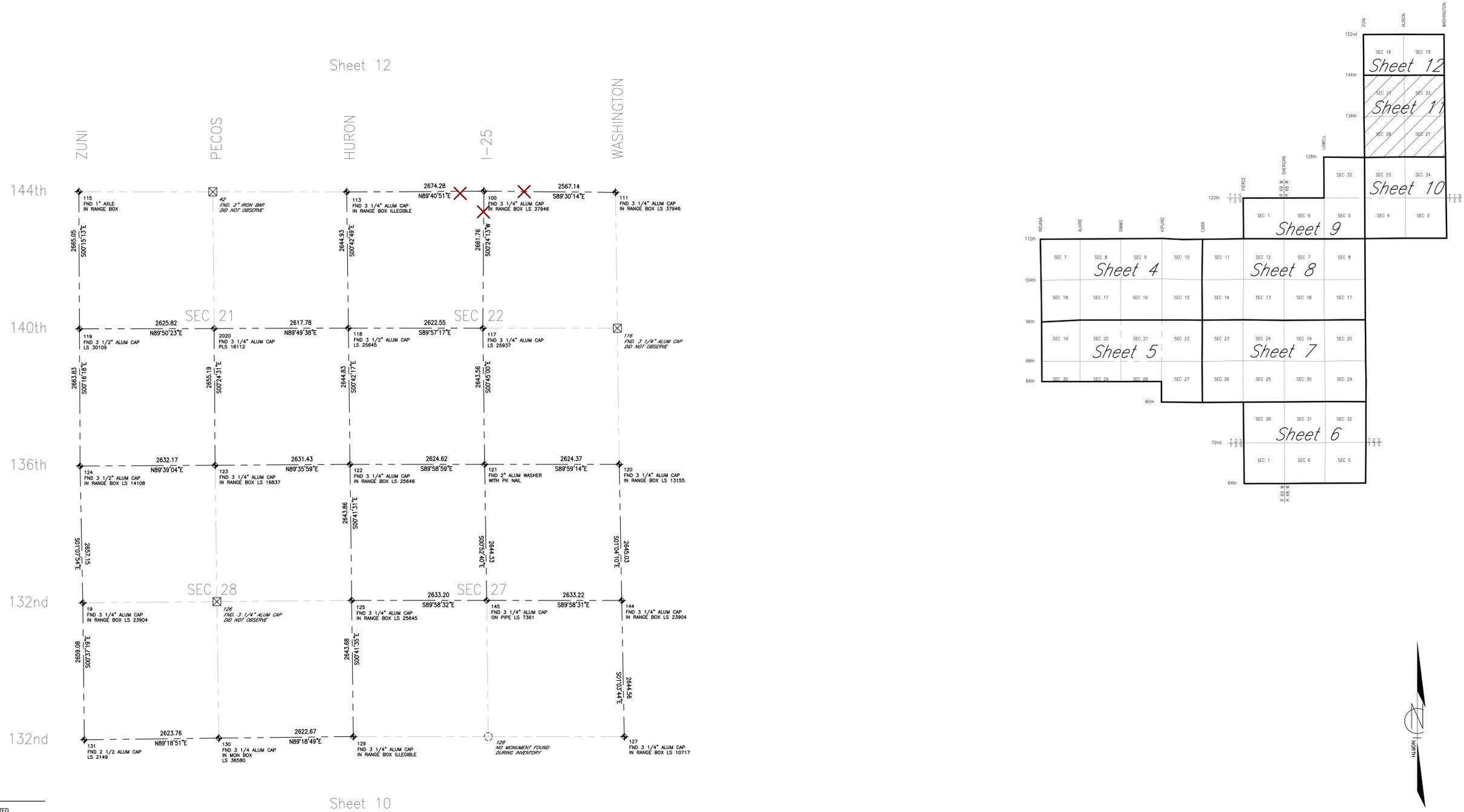
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CAD FILE NAME	080036-SHT10	

GEODETIC CONTROL NETWORK	
SECTION AND QUARTER SECTION MAPS WESTMINSTER, COLORADO	
CLIENT PROJECT NO.	
BHI PROJECT NO.	080036
SCALE:	SCALE AS SHOWN

GEODETIC CONTROL NETWORK SECTION AND QUARTER SECTION		
REVISION: 00	DRAWING NO: 080036-SHT10	SHEET NO: 10 OF 14

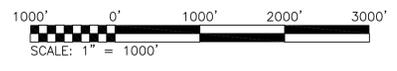
Section and Quarter Section Maps Geodetic Control Network City of Westminster, Colorado



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NOTES:

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 MODIFIED PROJECT DISTANCE X (PROJECT COMBINED FACTOR) = STATE PLANE DISTANCE



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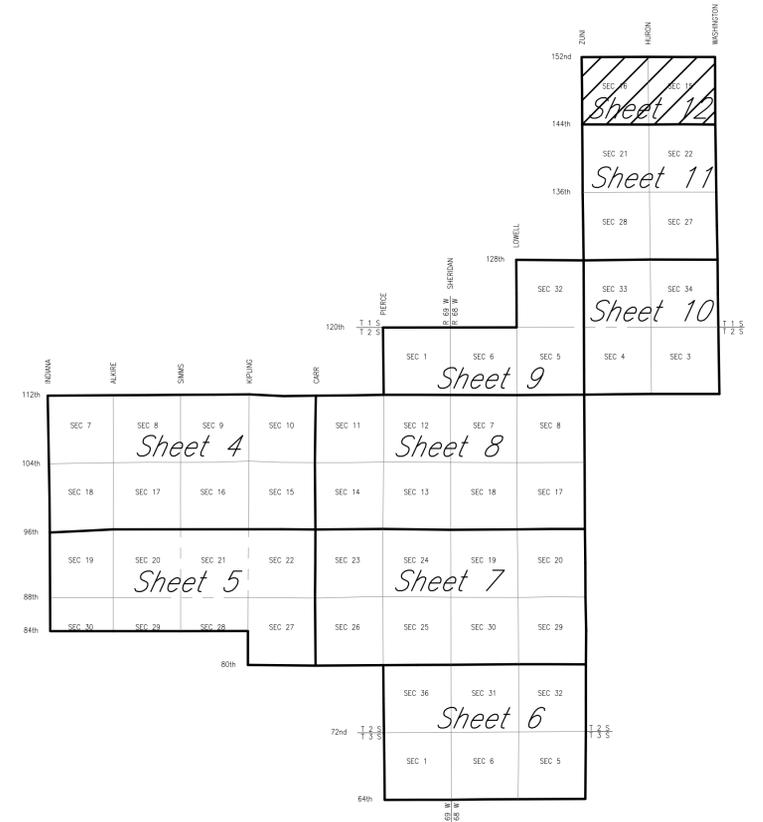
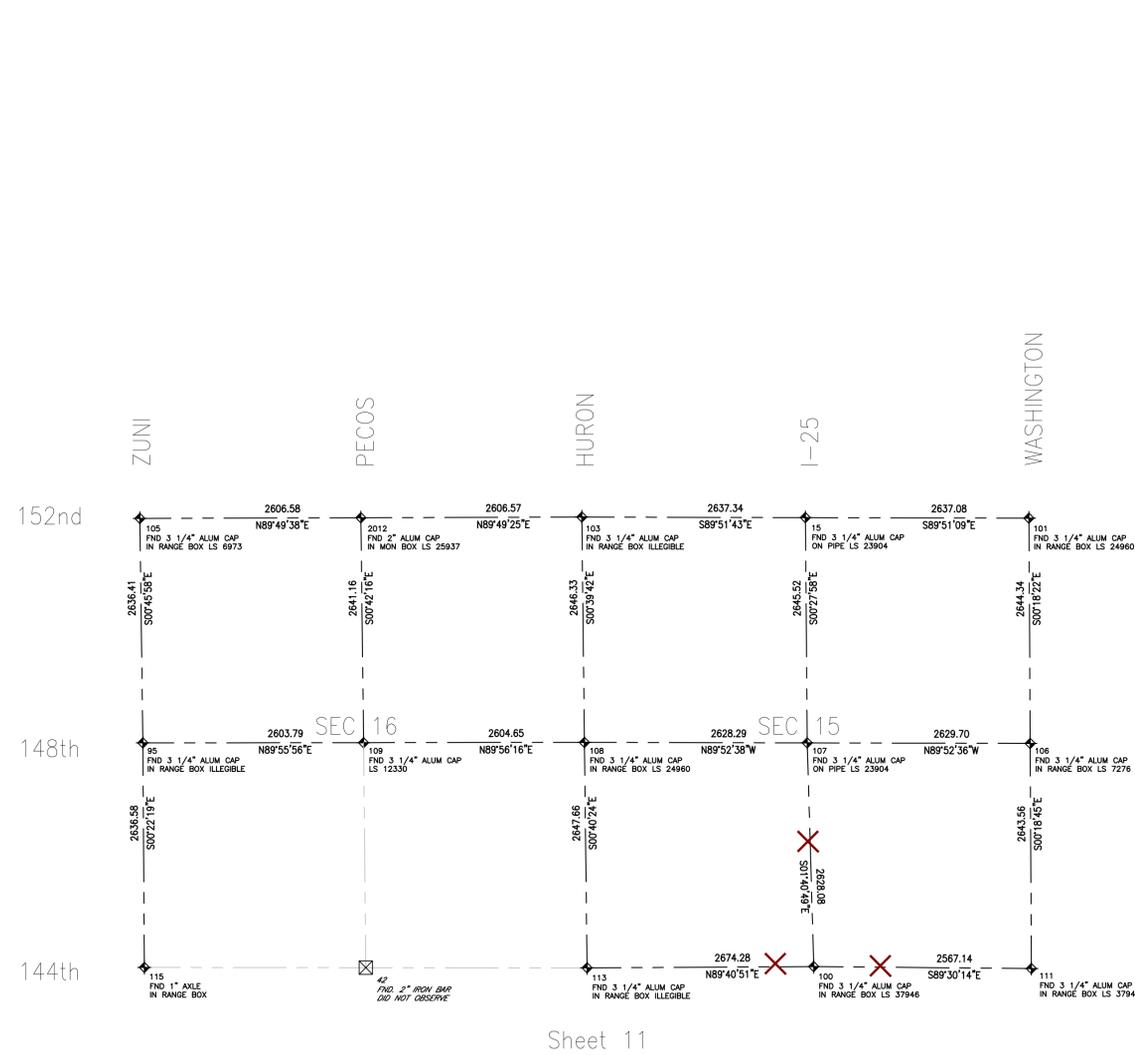
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DRAWN	MS	11/27/07
DESIGNED	MJB	11/15/07
QC REVIEW	MJB	12/15/07
APPROVED	MJB	12/20/07
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GEODETIC CONTROL NETWORK	
SECTION AND QUARTER SECTION MAPS WESTMINSTER, COLORADO	
CLIENT PROJECT NO.	
BHI PROJECT NO.	080036
SCALE:	SCALE AS SHOWN

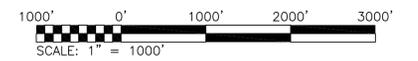
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GEODETIC CONTROL NETWORK SECTION AND QUARTER SECTION SHEET INDEX		
REVISION:	DRAWING NO.:	SHEET NO.:
00	080036-SHT11	11 OF 14

Section and Quarter Section Maps Geodetic Control Network City of Westminster, Colorado



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 - ⊞ SECTION OR QUARTER SECTION CORNER NOT FOUND DURING INVENTORY PERFORMED BY BHI; OBSERVATIONS WERE NOT PERFORMED BY BHI; DATA FROM PREVIOUS SURVEYS (LEGACY DATA) UTILIZED.

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DESIGNED	MJB	11/15/07
QC REVIEW	MJB	12/15/07
APPROVED	MJB	12/20/07
CLIENT	SIGNATURE	DATE
REVIEW		
APPROVED		
CAD FILE NAME	080036-SHT12	

GEODETIC CONTROL NETWORK	
SECTION AND QUARTER SECTION MAPS WESTMINSTER, COLORADO	
CLIENT PROJECT NO.	
BHI PROJECT NO.	080036
SCALE:	SCALE AS SHOWN

GEODETIC CONTROL NETWORK SECTION AND QUARTER SECTION		
REVISION: 00	DRAWING NO. 080036-SHT12	SHEET NO. 12 OF 14

Section and Quarter Section Maps Geodetic Control Network

City of Westminster, Colorado

PROJECT DATUM
 Geodetic coordinates are based on NAD 83/92
 Orthometric Heights are based on the NAVD 88 VERTICAL DATUM
 State Plane coordinates are based on the NAD 83 (HARN) Colorado North Zone (0501)
 Units are US Survey Feet (sft)

AVERAGE PROJECT HORIZONTAL LOCATION:
 Project coordinates were modified to ground at:
 Primary Control Number 6
 Latitude = 39° 53' 11.262996" North
 Longitude = 105° 03' 25.176095" West
 Scale Factor = 0.99997694

AVERAGE PROJECT HEIGHT AND ELEVATION:
 Project Ellipsoid Height = 5324.44 survey feet
 Project Elevation (AMSL) = 5380.00 survey feet
 Elevation Scale Factor = 0.999742724

PROJECT SCALE FACTORS:
 Project (Ground) coordinates are Modified State Plane
 Project Combined factor = 0.999719670
 Reciprocal = 1.000280409
 Calculation of Project Combined Factor:
 Scale Factor x Elevation Factor = Project Combined Factor

Project coordinates were not truncated for this project.

Orthometric Heights (Elevations) for the Section and Quarter Section
 Corners were established by GPS observations.

SECTION AND QUARTER SECTION CONTROL MONUMENTS

Station Name	Latitude	Longitude	Ellipsoid Height	State Plane Northing	State Plane Easting	Modified Combined Factor	Modified Northing	Modified Easting	Elevation
15	39°58'19.569288"N	104°59'15.873179"W	5155.24	1233099.23	3143568.67	0.99971967	1233445.00	3144450.16	5212.30
19	39°56'08.916157"N	105°00'55.952223"W	5156.11	1219835.27	3135849.64	0.99971967	1220177.33	3136728.96	5212.62
24	39°53'59.474583"N	105°04'18.163694"W	5295.51	1206656.62	3120162.11	0.99971967	1206994.98	3121037.04	5350.96
36	39°50'04.306438"N	105°03'44.138804"W	5341.73	1182874.10	3122931.27	0.99971967	1183205.79	3123806.97	5397.01
37	39°50'56.729693"N	105°04'54.428862"W	5404.46	1188152.07	3117423.04	0.99971967	1188485.25	3118297.19	5459.46
40	39°49'38.181969"N	105°03'45.640367"W	5329.34	1180230.12	3122827.17	0.99971967	1180561.07	3123702.84	5384.58
45	39°48'46.228874"N	105°02'04.908762"W	5204.82	1175013.27	3130713.48	0.99971967	1175342.76	3131591.37	5260.48
50	39°48'46.175391"N	105°02'38.734398"W	5240.11	1174994.15	3128074.00	0.99971967	1175323.63	3128951.14	5295.61
55	39°49'38.211051"N	105°02'03.666760"W	5240.91	1180273.57	3130782.78	0.99971967	1180604.54	3131660.68	5296.63
57	39°49'12.312619"N	105°02'04.223213"W	5228.99	1177652.82	3130753.12	0.99971967	1177983.05	3131631.02	5284.68
60	39°49'38.236069"N	105°00'56.009828"W	5234.94	1180304.38	3138061.12	0.99971967	1180635.35	3136940.50	5300.95
65	39°50'04.324093"N	105°02'37.439344"W	5291.00	1182902.11	3129014.37	0.99971967	1183233.81	3129011.53	5346.60
75	39°51'22.548220"N	105°05'28.363846"W	5441.69	1190752.18	3114764.34	0.99971967	1191086.06	3115637.76	5496.56
90	39°53'58.695636"N	104°58'39.518245"W	5278.99	1206719.27	3148554.43	0.99971967	1207057.65	3147436.76	5335.85
95	39°57'53.864232"N	105°00'56.414227"W	5241.72	1230454.27	3135755.65	0.99971967	1230799.31	3136634.95	5298.37
100	39°57'27.473812"N	104°59'14.998617"W	5163.31	1227823.37	3143667.22	0.99971967	1228172.63	3144548.74	5280.31
101	39°58'19.350366"N	104°58'42.010958"W	5122.91	1233092.44	3146205.01	0.99971967	1233438.22	3147087.24	5180.08
102	39°49'38.225602"N	105°02'37.445476"W	5235.72	1180261.34	3128147.48	0.99971967	1180592.31	3129024.64	5291.29
103	39°53'58.695636"N	104°58'39.518245"W	5182.01	1233105.58	3140932.08	0.99971967	1233451.36	3141812.83	5238.95
104	39°49'38.208703"N	105°01'29.804795"W	5251.55	1180287.35	3133424.57	0.99971967	1180618.31	3134303.22	5307.42
106	39°57'53.224489"N	104°58'42.029219"W	5104.39	1230448.89	3146219.14	0.99971967	1230793.92	3147101.37	5161.54
107	39°58'19.350366"N	104°58'42.010958"W	5122.91	1233092.44	3146205.01	0.99971967	1233438.22	3147087.24	5180.08
108	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
109	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
110	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
111	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
112	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
113	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
114	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
115	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
116	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
117	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
118	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
119	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
120	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
121	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
122	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
123	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
124	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
125	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
126	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
127	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
128	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
129	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
130	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
131	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
132	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
133	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
134	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
135	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
136	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
137	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
138	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
139	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
140	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
141	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
142	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
143	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
144	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
145	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
146	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
147	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
148	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
149	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
150	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
151	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
152	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
153	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
154	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
155	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
156	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
157	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
158	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
159	39°57'53.431837"N	104°59'15.793139"W	5150.81	1230454.54	3143590.18	0.99971967	1230799.58	3144471.68	5207.83
160	39°57'53.431837"N	104°59'15.793139"W	5150.81</						

