

Sheet Revisions		
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Land Survey Control Diagram			
Title Sheet			
Project Number: .			
Project Location: I-70/HAVANA STREET			
Project Code:	Last Mod. Date:	Subset	Sheet No.
18792	05-01-2013	4.01 of 4.04	4.01

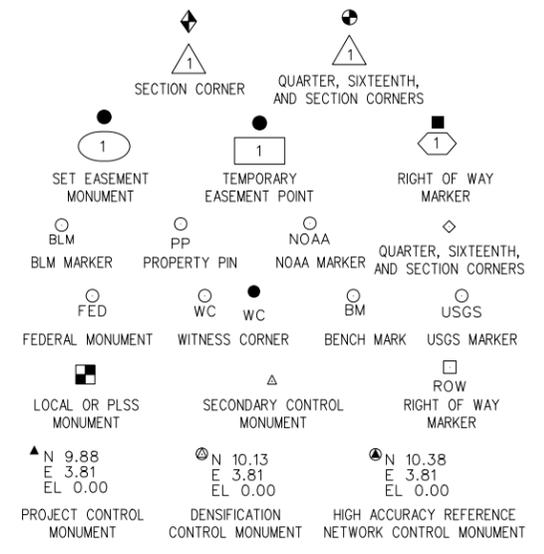
DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

LAND SURVEY CONTROL DIAGRAM

INTERSTATE 70 AT HAVANA STREET E 1/2 OF SEC. 22 AND W 1/2 OF SEC. 23, T3S, R67W, 6th PM CITY AND COUNTY OF DENVER

SHEET NO.	INDEX OF SHEETS
4.01	(1) Title Sheet
4.02	(1) Monument Coordinate Table
4.03-4.04	(2) Plan Sheet(s)
	(4) Total Sheets

Scales of Original 11x17 Drawings
 Plan Sheets 4.03 1"=600'
 Plan Sheets 4.04 1"=500'



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of S70°44'58"E from NGS Control Point "U392" a standard NGS Disk to NGS Control Point "PENA" a standard NGS Disk. The survey data was 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 NGS Control Point "PENA", PID: AE5246, a standard NGS disk set in the top of a concrete monument, with a NAVD 88 elevation of 5414.53 ft. PENA is a first order class II benchmark.

COORDINATE DATUM: Survey Control (horizontal) is based on modified UTM Grid, Zone 13 North (project specific control) as shown on the Land Survey Control Diagram for Colorado Department of Transportation project no. NH 0361-070 "SH-119/US Route 36/Interstate 70", dated September 27, 2012.

To convert from modified UTM Grid, Zone 13 North to UTM Grid, Zone 13 North:
 Northing- (project specific northing + 14,000,000) x 0.999350021
 Easting- (project specific easting + 1,000,000) x 0.999350021

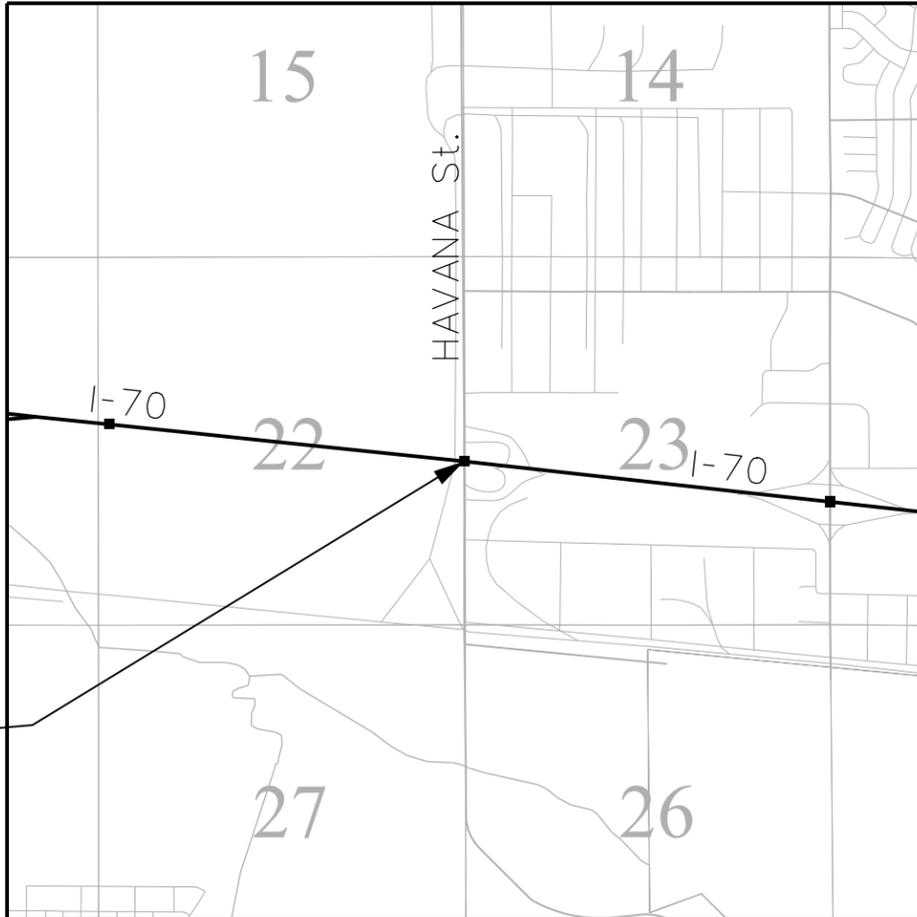
To convert from UTM Grid, Zone 13 North to modified UTM Grid, Zone 13 North:
 Northing- (UTM northing x 1.0006504025) - 14,000,000
 Easting- (UTM easting x 1.0006504025) - 1,000,000

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.

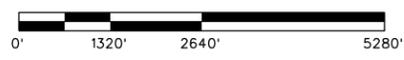
Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2006. Existing features are shown as screened weight (gray scale). Proposed or new features are shown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

General Notes:

- This Land Survey Control Diagram is not a boundary survey of the adjoining property and is prepared for Colorado Department of Transportation purposes only.
- Title policy, title commitment, and title research are not part of this survey, therefore easements, rights, and restrictions of record were not researched and are not shown on this diagram. The verification of the physical evidence with relation to easements, rights of ways, property boundaries, and restrictions, as described in the instruments of record, were not included in this land survey control diagram.
- 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.
- 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 typical survey monument descriptions.
- Horizontal Control Tolerances of Project Control points meet the precision requirements of CDOT Type A Control. (+/- 0.07', 95% certainty)
- Elevations are NAVD'88 First Order Class II and established by differential leveling. Elevations were run to an accuracy of +/-0.035 ft. times the square root of the distance traversed, in miles.



PROJECT LOCATION MAP



SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)

I, _____, 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.

PLS No. _____

FILING CERTIFICATION: DAY OF _____, 20____, AT _____ M.,
 DEPOSITED THIS _____ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY
 SURVEYS AT PAGE _____, RECEPTION NUMBER _____
 SIGNED _____ DEPT. _____
 5/8/2013 redereven 11:23:33 AM H:\122469.00 I-70 Havana ROW_Survey Drawings\Control_Diagrams\4.01 LSCD Title Sheet.dgn

Sheet Revisions		
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Land Survey Control Diagram Monument Coordinate Tables			
Project Number: .			
Project Location: I-70/HAVANA STREET			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
.	05-01-2013	4.01 to 4.04	4.02



FOUND ALIQUOT MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
1000	457450.28	679197.49	NE CNR, SEC 22, T3S, R67W, 6th PM, 3-1/4" ALUM CAP ZBS INC PLS 11434
1001	454796.95	679208.68	E1/4 CNR, SEC 22, T3S, R67W, 6th PM, 3-1/4" ALUM CAP CDOH PLS 9872
1002	452143.49	679219.88	SE CNR, SEC 22, T3S, R67W, 6th PM, 3-1/4" ALUM CAP ZBS INC PLS 11434



FOUND BOUNDARY MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
3591	453434.48	679801.16	1-1/4" YELLOW PLASTIC CAP: BURDICK PEPLS 901D
3592	453504.04	679800.87	1-1/4" YELLOW PLASTIC CAP: INTERMTN ENGR PEPLS 26043
3593	453581.77	679817.44	BARE #3 REBAR
3594	453894.31	679797.34	1-1/4" YELLOW PLASTIC CAP: INTERMTN ENGR PEPLS 26043
3595	454055.75	680067.93	BARE #5 REBAR
3596	454108.17	680135.07	1-1/4" YELLOW PLASTIC CAP: BURDICK PEPLS 901D
3597	454109.35	680134.07	1-1/4" YELLOW PLASTIC CAP: BURDICK PEPLS 901D
3598	454185.16	680392.34	1-1/4" YELLOW PLASTIC CAP: BURDICK PEPLS 901D
3599	454179.25	680438.30	1 1/4" YELLOW PLASTIC CAP-PADON ENG CO PLS 2065
3600	453893.33	679305.69	1-1/4" YELLOW PLASTIC CAP: INTERMTN ENGR PEPLS 26043
3601	454113.31	681044.30	1-1/4" YELLOW PLASTIC CAP: ILLEGIBLE
3602	454149.79	681037.32	3-1/4" ALUMINUM CAP: CDOT MP 1.041111
3604	454360.68	681532.60	1-1/4" RED PLASTIC CAP: BELL SURVEY LS 16828
3605	454499.86	680259.85	1-1/4" YELLOW PLASTIC CAP: ENGR SER CO LS 9652
3606	455371.68	679293.61	1-1/4" YELLOW PLASTIC CAP: FUTURA LS 11889
3607	455371.31	679265.99	BARE #5 REBAR
1696	454934.48	678824.03	1" YELLOW PLASTIC CAP: URS COPR PLS 20683
1697	455642.12	679145.23	1-1/2" ALUMINUM CAP: ZBS INC PLS 11434
1698	455594.12	679115.27	1-1/4" BRASS TAG: PLS 23*99
3501	454066.73	678527.27	1-1/4" GREEN PLASTIC CAP: RE HARRIS PLS 37601
3502	454255.16	678373.53	1-1/4" GREEN PLASTIC CAP: RE HARRIS PLS 37601
3503	454592.89	675322.84	3-1/4" ALUMINUM CAP: CDOT PLS 24313 ROW #68
3504	454703.63	675895.21	3-1/4" ALUMINUM CAP: CDOT PLS 24313 ROW #69
3505	454675.44	676380.96	1-1/2" ALUMINUM CAP: ILLEGIBLE
3506	453880.80	678707.90	1-1/2" ALUMINUM CAP: DOUGLAS ORT PLS 37066
3507	453226.57	679311.27	1" RED PLASTIC CAP: KSI LS 34955
3508	452812.76	679314.58	1-1/4" YELLOW PLASTIC CAP: BURDICK PE PLS 901D
3509	452812.22	679314.45	BARE # 3 REBAR
3510	452847.40	679314.27	1-1/4" YELLOW PLASTIC CAP: PLS 25961
3511	452204.53	679319.33	1-1/4" ORANGE PLASTIC CAP: ILLEGIBLE
3150	454867.64	676920.19	3-1/4" ALUMINUM CAP: CDOT PLS 24313 ROW #61
3151	454995.74	679628.18	BARE #4 REBAR
3152	455055.54	679296.38	3/4" YELLOW PLASTIC CAP: FUTURA LS 13487
3153	455548.13	679625.92	3/4" BRASS TAG: ILLEGIBLE
3154	455546.40	679265.16	3/4" BRASS TAG: ILLEGIBLE
3155	453227.80	679503.21	1-1/4" RED PLASTIC CAP: KSI LS 37995



PROJECT CONTROL COORDINATE TABLE				
Point No.	Northing(ft)	Easting(ft)	Elevation(ft) NAVD 88	Description
100	453732.12	679106.78	5294.36	2" ALUM CAP ON #5 REBAR HCL 100
101	454350.72	679265.65	5289.14	2" ALUM CAP ON #5 REBAR HCL 101
102	454748.38	679155.93	5286.22	2" ALUM CAP ON #5 REBAR HCL 102
103	455590.13	679252.29	5284.99	2" ALUM CAP ON #5 REBAR HCL 103
201	455077.79	676679.37	5271.57	MAG NAIL IN ASPHALT
202	455595.25	677823.00	5275.00	MAG NAIL IN ASPHALT
203	454897.53	678270.28	5271.81	MAG NAIL IN ASPHALT
204	455626.76	678781.41	5279.40	MAG NAIL IN ASPHALT
205	455073.85	679328.38	5281.86	MAG NAIL IN ASPHALT
206	454985.15	679936.61	5289.19	MAG NAIL IN ASPHALT
207	454704.32	680926.92	5299.36	MAG NAIL IN ASPHALT
208	453521.62	680692.46	5304.71	CHISELLED '+' IN CONCRETE
209	453823.52	679751.89	5301.41	MAG NAIL IN ASPHALT
210	452778.88	679335.52	5294.13	MAG NAIL IN ASPHALT
211	452785.02	678641.84	5279.35	#5 REBAR W/ PANEL MATERIAL
212	453527.98	679129.50	5294.87	MAG NAIL IN CONCRETE
213	453840.56	678703.73	5280.92	SPIKE
214	453927.80	677499.26	5272.95	MAG NAIL IN ASPHALT
215	454056.66	676596.66	5271.30	MAG NAIL IN ASPHALT



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Region 6

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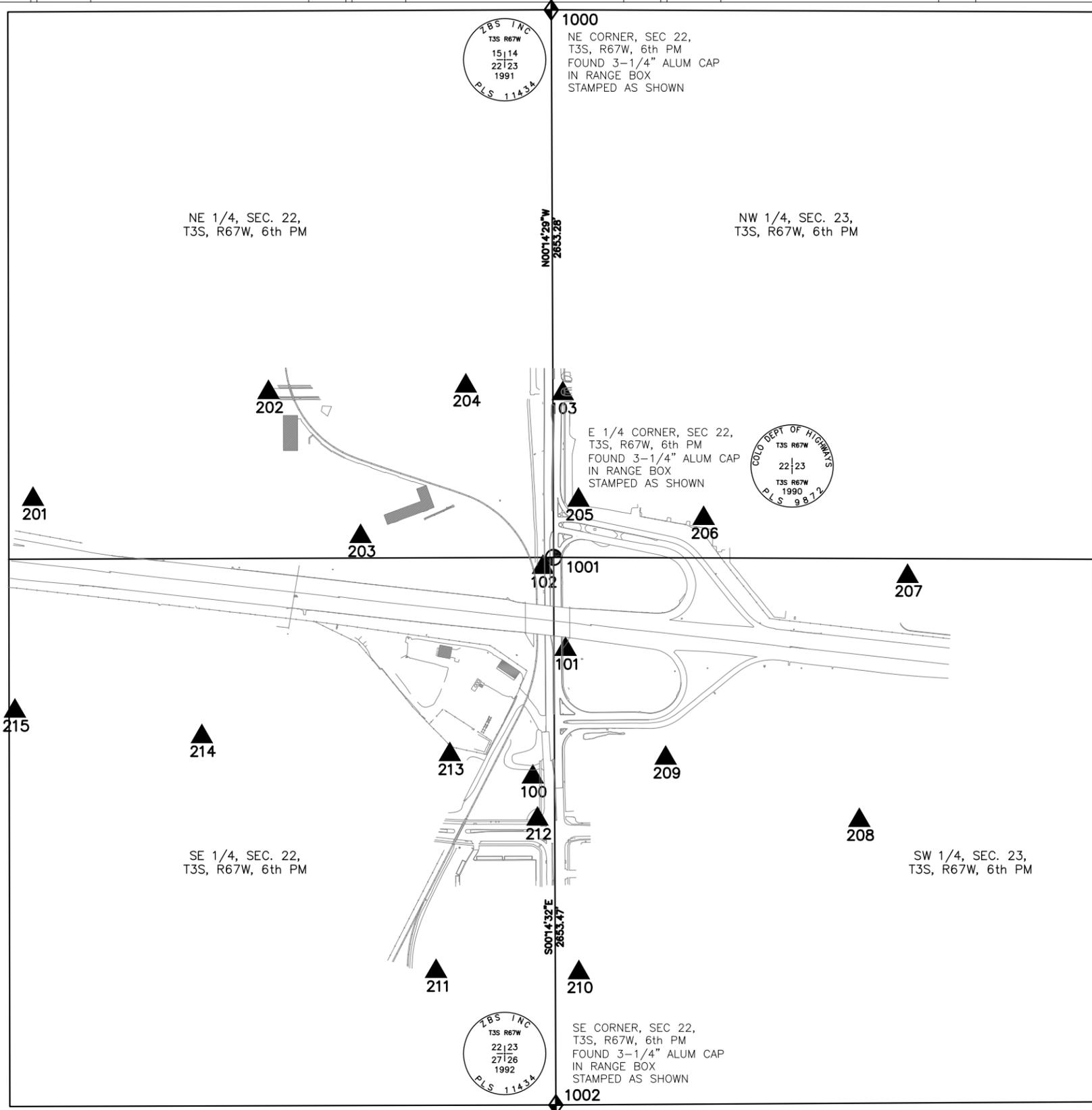
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Land Survey Control Diagram

Plan Sheet

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Project Location: I-70/HAVANA STREET

Project Code:	Last Mod. Date:	Subset	Sheet No.
.	05-01-2013	4.01 to 4.04	4.03



LEGEND

- INDICATES FOUND SECTION CORNER
- INDICATES FOUND QUARTER/ SIXTEENTH SECTION CORNER
- INDICATES SURVEY CONTROL MONUMENT





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Denver, CO 80222
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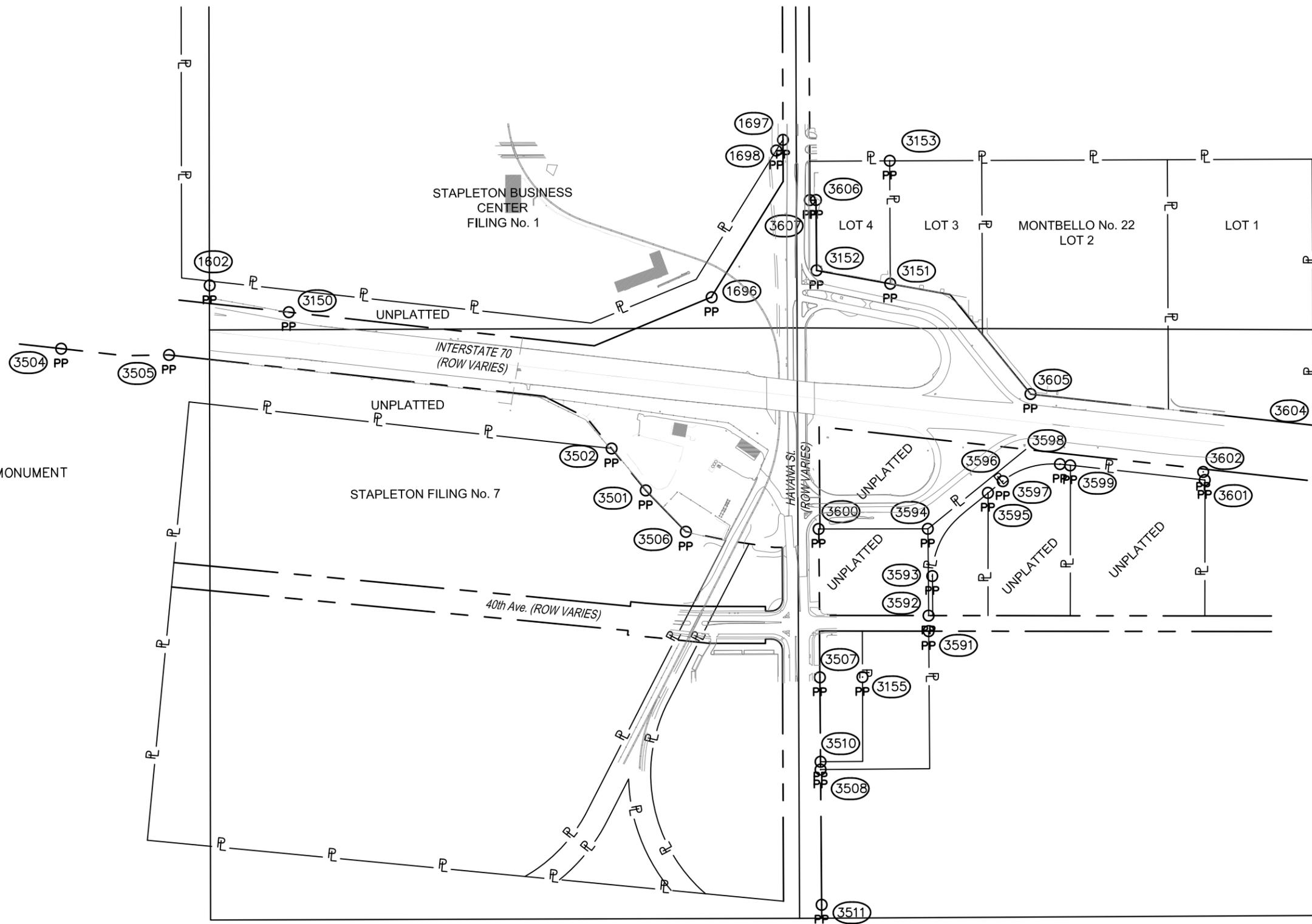
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LEGEND

XX INDICATES FOUND BOUNDARY MONUMENT
PP

