



Region 5
3803 N. Main Ave., Suite 300
Durango, CO 81301
Phone: (970) 385-1400 FAX: (970) 385-1410

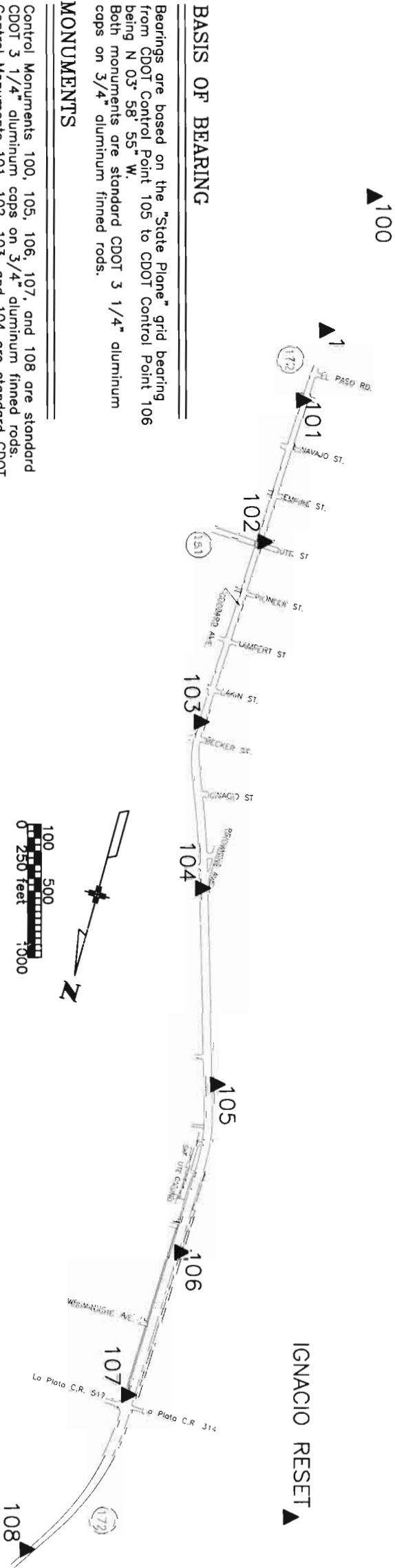
Right of Way Plans Unit: Adams

Sheet Revisions			Sheet Revisions			Sheet Revisions		
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Right of Way Plans					
C.D.O.T. Project Control Diagram Sheet					
Project Number: C 172A-014					
Project Description: State Hwy 172 Safety Improvements					
Project Location: Ignacio, S.H. 172 S.H. 151					
Project Code: 13617	Last Mod. Date: 03-26-02	Sheet No: 1	Total No. of Sheets: 3	7	

C.D.O.T. PROJECT CONTROL DIAGRAM

NAME	LATITUDE	STATE PLANE LONGITUDE	COORDINATES (meters)		PROJECT COORDINATES		(feet) ELEVATION
			NORTHING	EASTING	NORTHING	EASTING	
CP 100	37° 06' 27.07428"	N 107° 38' 00.22847"	W 355894.122	724784.039	183715.907	16381.976	6433.179
CP 101	37° 06' 43.15921"	N 107° 37' 59.38354"	W 356389.390	724816.219	185341.240	16486.679	6443.639
CP 102					186439.345	16473.833	6451.672
CP 103	37° 07' 08.39032"	N 107° 37' 58.92065"	W 357166.762	724845.405	187892.399	16582.472	6464.954
CP 104	37° 07' 20.20477"	N 107° 38' 03.49552"	W 357533.468	724740.814	189095.846	16239.227	6476.388
CP 105	37° 07' 33.90574"	N 107° 38' 10.13065"	W 357959.480	724586.718	190493.926	15733.518	6493.501
CP 106	37° 07' 46.51735"	N 107° 38' 11.58969"	W 358348.998	724559.603	191772.239	15644.532	6503.744
CP 107	37° 07' 58.00758"	N 107° 38' 10.55871"	W 358702.549	724593.145	192932.515	15754.611	6514.111
CP 108	37° 08' 11.25301"	N 107° 38' 05.65315"	W 359108.011	724723.529	194263.149	16182.501	6528.881
CP 1					184786.022	16460.828	6440.807
IGNACIO	37° 08' 14.81406"	N 107° 38' 28.73904"	W 359230.804	724156.396	194666.131	14321.296	6602.940
IGNACIO RESET	37° 08' 03.17416"	N 107° 38' 28.29883"	W 358871.810	724159.033	193487.991	14329.951	6590.210



FILING CERTIFICATION:
DEPOSITED THIS _____ DAY OF _____, 18____, AT _____, M., FOR INFORMATION
ONLY IN BOOK _____ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY
SURVEYS AT PAGE _____ RECEPTION NUMBER _____

SIGNED _____
DEPT. _____

BASIS OF BEARING

Bearings are based on the "State Plane" grid bearing from CDOT Control Point 105 to CDOT Control Point 106 being N 03° 58' 35" W.
Both monuments are standard CDOT 3 1/4" aluminum caps on 3/4" aluminum finned rods.

MONUMENTS

Control Monuments 100, 105, 106, 107, and 108 are standard CDOT 3 1/4" aluminum caps on 3/4" aluminum finned rods. Control Monuments 101, 102, 103, and 104 are standard CDOT 3 1/4" aluminum caps set in concrete sidewalks. Control Monument 1 is a "PK nail" set in a concrete sidewalk. Ignacio Reset and Ignacio AZ MK are National Geodetic Survey brass "horizontal mark" disks set in concrete posts.

VERTICAL CONTROL

Vertical control was established by differential leveling from Ignacio Reset, a National Geodetic Survey First Order horizontal mark with an orthometric height determined by GPS observations. The published NAVD 88 orthometric height of Ignacio Reset is 2008.7 m (6590.21 ft).

COORDINATE INFORMATION

Geodetic coordinates (NAD 83 – 1992) were derived from GPS observations tied to First Order HARN stations Ignacio Reset and Ignacio AZ MK. State Plane Coordinates are Colorado South Zone (NAD 83). Project coordinates are modified State Plane coordinates in U. S. Survey Feet. To convert project coordinates to State Plane Coordinates, convert to meters by multiplying by 0.3048006096, add 300,000 to the northings and 720,000 to the eastings, then multiply by the combined scale factor of 0.9997118250.

GENERAL NOTES

- This control survey is for the use of the Colorado Department of Transportation. The survey is not a complete boundary survey.
- No guarantee as to the accuracy of the information contained on the plat is either stated or implied unless this copy bears an original signature and stamp of the professional surveyor named hereon.
- 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 certification shown hereon.
- All coordinates listed are PROJECT COORDINATES only. Coordinates are carried out to 3 decimal places for calculation purposes and do not represent survey precision. Survey precision exceeds C.D.O.T. "B" order precision.

SURVEYOR CERTIFICATE

CONTROL SURVEY AND CONTROL MONUMENTATION WERE DONE UNDER MY SUPERVISION AND CHECKING.

JOHN M. WILLIS

P.L.S. NO. 29772

datestamp



Region V R.O.W.
3803 N. Main Ave. Suite 300
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R5 ROW Plans

Sheet Revisions

Sheet Revisions

Sheet Revisions

Right of Way Plans

Diagram of boundary control

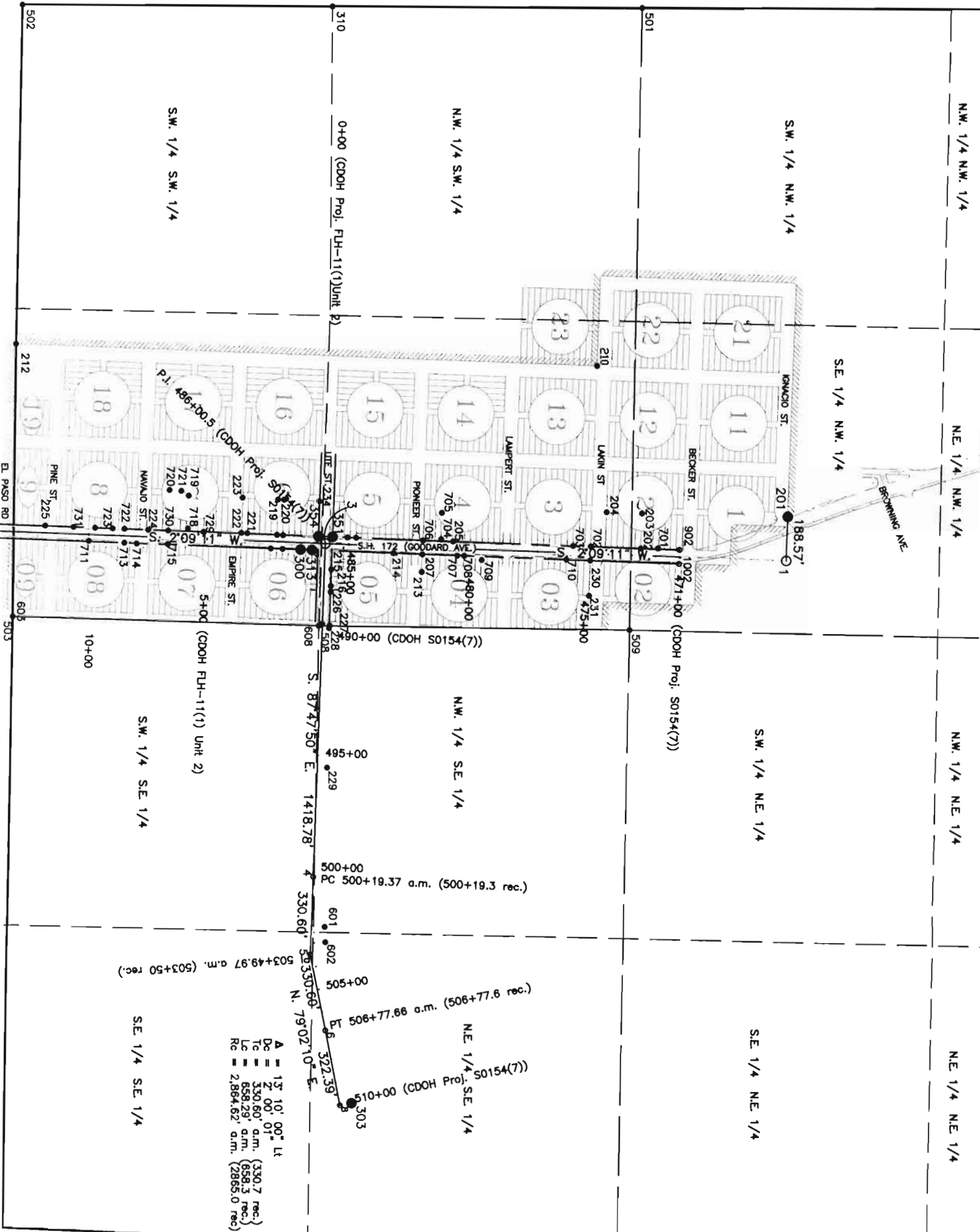
Project Number: C172A-014

Project Description: State Hwy. 172 Safety Improvements

Project Location: S.H. 172 S.H. 151

Project Code: Last Mod. Date 03/26/2002 Sheet No. 1 of 1 Total No. of Sheets 7

T. 33 N, R. 7 W, New Mexico Meridian SEC. 8



1910 Town limit line

Controlling monument used to establish R.O.W.

Supporting or conflicting Monument found

calculated position

No original subdivision corners, original town corners or original aliquot corners were found to establish the roadway alignments. One original R.O.W. monument was found (in this project area). Several uncalled-for monuments were found and several monuments were found which were shown on survey plats. These plats did not show ties to any original monumentation. I performed an evaluation of all the points and property corner evidence(s) I field located, to establish an opinion as to the original locations of the right of ways(s).

The location of the centerline for S.H. 172 (Goddard Ave.) was established by using the building corners at the N.W., S.W. and S.E. Quadrants (351, 354, & 313) of the intersection of Goddard Ave. and Ute St. I established the location of points on the (theoretical) south 1/1 6th line by proportioning between the nearest building corners north and south of Ute St., west side of Goddard Ave. (351 & 354); and by using a distance of 40' north of the building corner at the southeast quadrant of the intersection (313) on the building line extended northerly. The centerline intersection point of the highway was set halfway on line between these established points, and 15' northerly (point #3). A point (number 1) was established at 188.57' easterly of point number 201 for the alignment going north from point number 3. This alignment was used after a (statistical) best-fit line was established using all of the building corners, fence corners and property corner markers found. A line through these points (1 and 3) were used as they fit reasonably to this best-fit line and fit well to an average of several "key" existing property corners and building corners as found. "Key" points including property pins 202, 230, 205, 207, building corners 300, 313, 351, 354, 706, 729, 730, 722, and 723. Property markers 219 to 223 appear to be on a common basis (to each other) and do not fit well to the building corners and the overall location of the boundary evidence as a whole in my opinion.

The alignment for S.H. 151 (Ute St.) was established by using the point 3 as described and a found CDOH Right of Way marker point number 303 (station 510+00 left from CDOH project number S0154(7)). A distance between point number 3 and the right of way marker measured (by coordinate inverse) 2,382.20', and the record distance (per CDOH project S0154(7)) was 2,382.24'. The alignment was established using these to points as a direction basis and proportioning in the distance differences along the alignment.

COLORADO DEPARTMENT of TRANSPORTATION



Region V R.O.W.
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R5 ROW Plans Unit

TABULATION OF FOUND BOUNDARY EVIDENCE

PROPERTY/R.O.W. BOUNDARY EVIDENCE

POINT NO.	NORTHING	EASTING	DESCRIPTION
202	187803.417	16521.541	1 1/2" alum. cap stamped "NE COR LOT 19 LS 18449 1997"
203	187808.783	16371.670	1 1/2" alum. cap "NW COR LOT 9 LS 18449 1997"
204	187658.888	16366.281	1 1/2" alum. cap "???" COR LOT 14 LS 18449 1997"
205	187009.446	16491.589	1 1/2" o.d. iron pipe
206	187027.023	16552.706	2" dia. alum. cap "ANIMAS SURVEYING & MAPPING PLS 28265"
207	186878.963	16547.070	2" dia. alum. cap "ANIMAS SURVEYING & MAPPING PLS 28265"
210	187621.227	15744.529	1 1/2" alum. cap stamped "KROEGER C.L. COR. 10 LS 2185" in concrete cylinder
212	185158.992	15651.994	1 1/2" alum. cap stamped "KROEGER C.L. COR. 12 LS 2185" in concrete cylinder
213	186875.940	16622.086	2" dia. alum. cap "ANIMAS SURVEYING & MAPPING PLS 28265"
215	186491.720	16611.584	OLD bent square pin (1/2" x 1/2" +/-)
214	186756.576	16542.067	3/4" diam. rebar
216	186489.232	16682.765	1 1/2" alum. cap on 5/8" rebar laying down, "22574"
219	186267.484	16313.206	1 1/2" ALUM. CAP "COLO LS 12027"
220	186292.754	16313.766	1 1/2" alum. cap "KROEGER PLS 17494"
221	186136.720	16457.396	1 1/2" ALUM. CAP "COLO LS 12027"
222	186111.828	16456.077	1 1/2" ALUM. CAP "COLO LS 12027" bent
223	186117.587	16306.195	1 1/2" ALUM. CAP "COLO LS 12027" spike
224	185718.332	16443.055	spike
225	185281.755	16425.666	1 1/2" alum. cap, partially mangled, under 0.3' of asphalt "22574"
226	186488.536	16707.400	1 1/2" alum. cap in 6" conc. cyl. in pvc tube "PELS 2185"
227	186484.217	16848.793	1 1/2" alum. cap "MCCORMACK LS 22574" next to fence
228	186483.426	16854.265	"22574"
229	186470.909	17454.102	2" aluminum cap stamped "PLS 17494 WC 0.68" with arrow pointing east
230	187589.225	16572.880	2" aluminum cap stamped "PELS 2185 KROEGER" no other stamping
231	187583.568	16722.926	1 1/2" alum. cap "KROEGER PLS 17494"
234	186442.577	16320.280	building corner
300	186410.484	16529.087	CDOH right of way monument (typ.)
303	186572.650	18881.170	building corner
313	186435.465	16530.180	building corner
351	186497.556	16472.850	building corner
352	186260.466	16524.281	building corner
353	186450.463	16530.368	building corner
354	186437.805	16470.825	building corner
701	187875.963	16521.028	(wood) fence line--extended
702	187592.032	16512.746	fence corner
703	187517.204	16510.517	fence corner
704	186958.692	16482.090	fence post, east end fence post line
705	186962.596	16369.359	fence post, west end fence post line
706	186882.307	16487.331	SE corner building (building lines extended)
707	187029.414	16552.195	offset east to old building corner/old tree line east
708	187056.103	16553.555	west end tree line
709	187130.293	16571.584	west end fence
710	187488.280	16569.384	west end OLD tree and fence line
711	185467.091	16490.937	west end fence line -- extended
713	185617.964	16499.116	west end tree/fence line
714	185669.588	16502.305	west end tree/fence line
715	185800.558	16507.793	fence line east at corner tree line north
718	185885.973	16437.295	east end tree line
719	185889.624	16297.530	west end tree line
720	185809.520	16272.898	east end tree/fence line -- extended
721	185857.967	16276.350	east end tree line
722	185567.210	16437.048	east end chain link fence
723	185542.004	16436.221	east end tree/fence line
729	185953.116	16452.099	S.E. Building corner
730	185803.070	16446.088	N.E. fence corner
731	185403.957	16431.666	building corner

ALIQUOT CORNER EVIDENCE

501	187813.567	14225.071	USD BLM Brass Cap "T33N R7W 1/4 S7ISE"
502	185189.389	14211.306	USD BLM Brass Cap "T33N R7W S7ISE/S18S17"
503	185142.033	16811.785	3/4" Alum. Cap S.U.I.R. "T33N R7W 1/4 S8/S17 1992"
506	186385.121	19467.604	3/4" Alum. Cap S.U.I.R. "T33N R7W 1/16 S8/S9 1992"
508	186453.418	16843.187	P.K. nail at location of C-S 1/4th cor. Sec. 8. (possibly to be revised)
509	187754.728	16867.793	3/4" Aluminum Cap L.S. 18449 "SO. UTE INDIAN RES. 1997"
601	186459.990	18132.693	ref. mon. for SE 1/4 cor. Sec.8 3/4" alum. cap RM SU1R 1992 46.8 FT
602	186463.169	18197.663	ref. mon. for SE 1/4 cor. Sec.8 3/4" alum. cap RM SU1R 1992 61.3 FT
603	185142.563	16810.912	1 1/2" alum. cap "SMITH PELS 8974" in concrete cylinder
604	186420.634	16863.100	fire hydrant reference tie to 508 from monument record 58lks. as reported on BLM notes
608	186440.667	16842.839	ref. mon. for C-S 1/4th cor Sec. 8 3/4" alum. cap RM SU1R 1992 33.4 FT

Sheet Revisions

mm/dd/yy	to
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Sheet Revisions

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Sheet Revisions

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TABULATION OF R.O.W. MARKERS TO BE SET BY STATE FORCES

POINT NO.	CDOT Type	1 monument to be set except as noted
401	NORTHING	EASTING
401W	186410.484	16529.087
402	186413.799	16532.830
403	186434.466	16556.161
404	186493.347	16586.394
405	186502.535	16560.382
406	186521.707	16542.481
	186542.390	16534.200

TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED

POINT NO.	NORTHING	EASTING
356	186410.276	16536.394
357	186434.188	16563.368
358	186498.579	16586.596
359	186506.842	16563.201
360	186524.435	16546.774
361	186542.184	16539.668

GENERAL NOTES

1. This Right of Way plan is not a complete boundary survey of all adjoining owners and is prepared for Transportation Department purposes Only.
2. Survey Control Points set with a higher network degree of accuracy than ROW Markers.
3. 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.
4. All R.O.W. Markers set from survey control points.
5. All centerline and offset stationing is theoretical only and may not represent the centerline as constructed in the field. All stationing is approximate.
6. All coordinates listed are project coordinates only.
7. Field survey control precision computed to exceed 1/20,000.
8. Title commitments supplied by Donald H. Botkin, Real Estate Specialist, Reg. 5 R.O.W. Unit.

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	1	1A	2	2A	3	3A	4	5
REFERENCE								
RIGHT OF WAY	6							
CONTROL								
ALIQUOT CORNER								
WITNESS POST								

R.O.W. Plans and Legal Descriptions were prepared under my supervision and checking.

Tom Adams, PLS 26280

COLORADO DEPARTMENT of TRANSPORTATION

Region V ROW
Address: 3803 N. Main Ave., Suite 300
Durango, CO 81301
Phone: (970) 385-1400 Fax: (970) 385-1410
Region V ROW Plans Unit

Sheet Revisions

Sheet Revisions

Sheet Revisions

Plan Sheet

Project Number: C 172A-014

Project Description: State Hwy. 172 Safety Improvements

Project Location: Ignacio, S.H. 172 S.H. 151

Project Code: 03/26/2002 1 of 1 6 7

T. 33 N., R. 7 W., N.M. Meridian

E 1/2, SW 1/4
SEC. 8

lot 1, block 5 N.E. 1/4, S.W. 1/4

1+00 (S.H. 151)

0+00 from project FLH-11(1) Unit 2
100+00

S. 1/16 th line, Sec. 8

lot 13, block 6

12

S.E. 1/4, S.W. 1/4

P.I. 486+00.5 from CDOH Project S0154(7)

S.H. 172/GODDARD AVE

S.H. 172 STA. 100+00 =
S.H. 151 STA. 2+00

S. 87°47'50" E.

3+00

S.H. 151/UTE ST.

S. 2°09'11" W.

N.2°30'16"E.

overhang

building line

John Clark
reception number
747527

+55.03 CDOH Project FLH-11(1) Unit 2

lot 14, block 06

15

lot 26, block 05

25

24

360
Howard Keith
and
Davis Dunagan
reception number
778198

TPOB
PARCEL 2

TPOB
PARCEL 1

1
TE

1
TE

5.47'
361
+23.53' (Proj. S0154(7))
19.12'
5.21'49.10"E
22.28'
406
405
404
403
54.00'
5.24'
+84.47' (Proj. S0154(7))
358
215
+70.57' (Proj. S0154(7))
5.24'
27.59'
24.81'
359
24.07'
5.43'02.77"E
18.73'
19.12'
5.21'49.10"E
47.00'
N.2°09'11"E
N.87°47'50"W
314
313
26.00'
7.23'35.7
S.87°47'50"E
30.00'

29.85'
25.01'
401
356
56.06'
+56.53' (Proj. S0154(7))
7.31'
313
26.00'
7.23'35.7
S.87°47'50"E
30.00'



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R5 ROW Plans Unit

Sheet Revisions

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Right of Way Plans

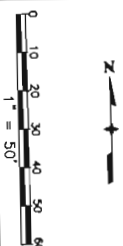
Ownership Map

Project Number: C 172A-014

Project Location: State Hwy. 172 Safety Improvements

Project Location: S.H. 172 S.H. 151

Project Code: 03/22/2002 1 of 1 7 7



T. 33 N, R. 7 W, New Mexico Meridian

SW 1/4
SEC. 8

HALL'S FIRST ADDITION
TO THE
TOWN OF IGNACIO

05

Howard Keith
and
Davis Dunagan
reception number
778198

N.E. 1/4, S.W. 1/4

State Highway 151/UTE ST.

488+00
(Proj. S0154(7))

John Clark
reception number
747527

S.E. 1/4, S.W. 1/4

06

ASPAAS FIRST ADDITION
TO THE
TOWN OF IGNACIO

State Highway 172/GODDARD AVE.

PIONEER ST.

104+00

103+00

102+00

101+00

100+00

99+00

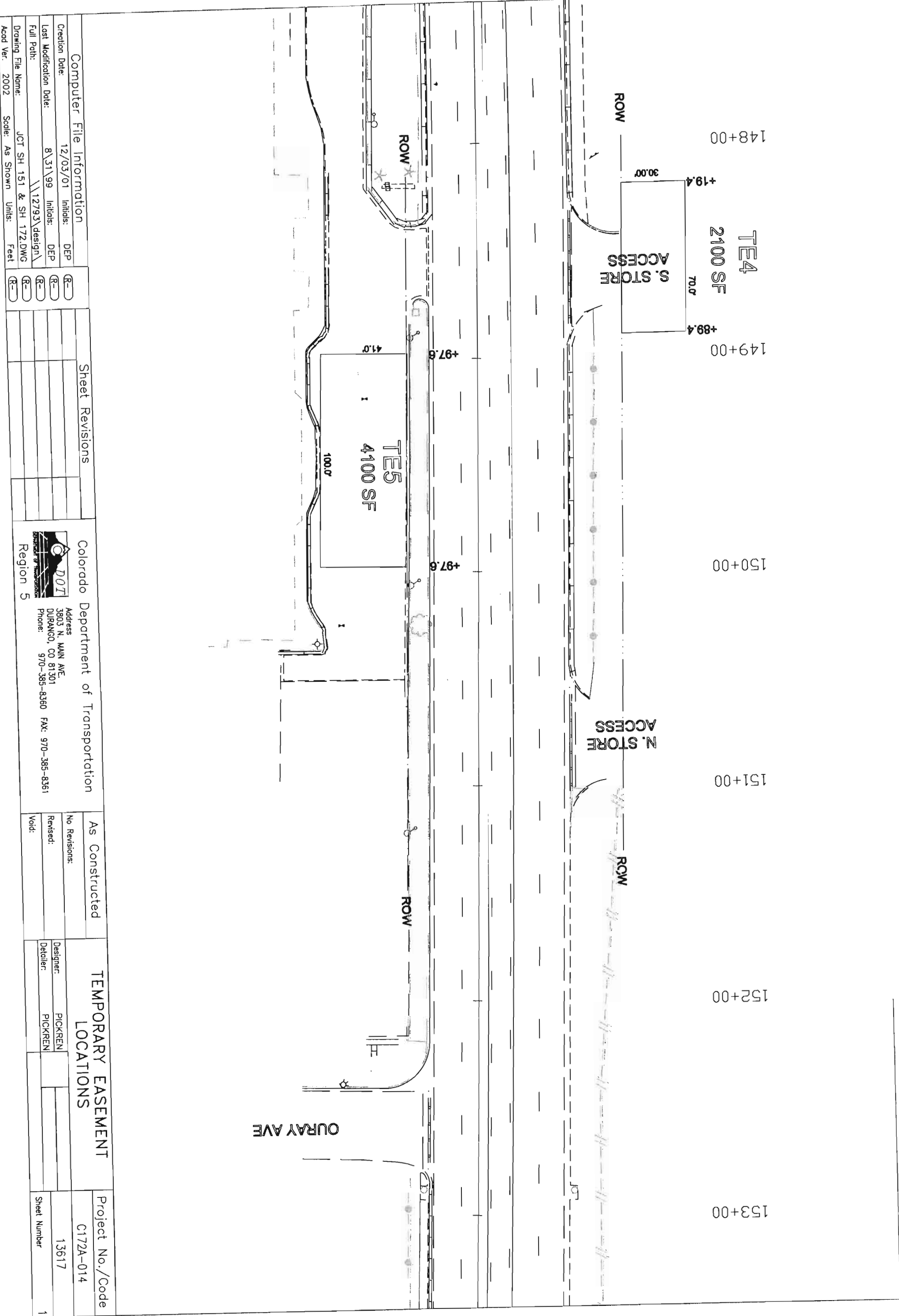
98+00

97+00

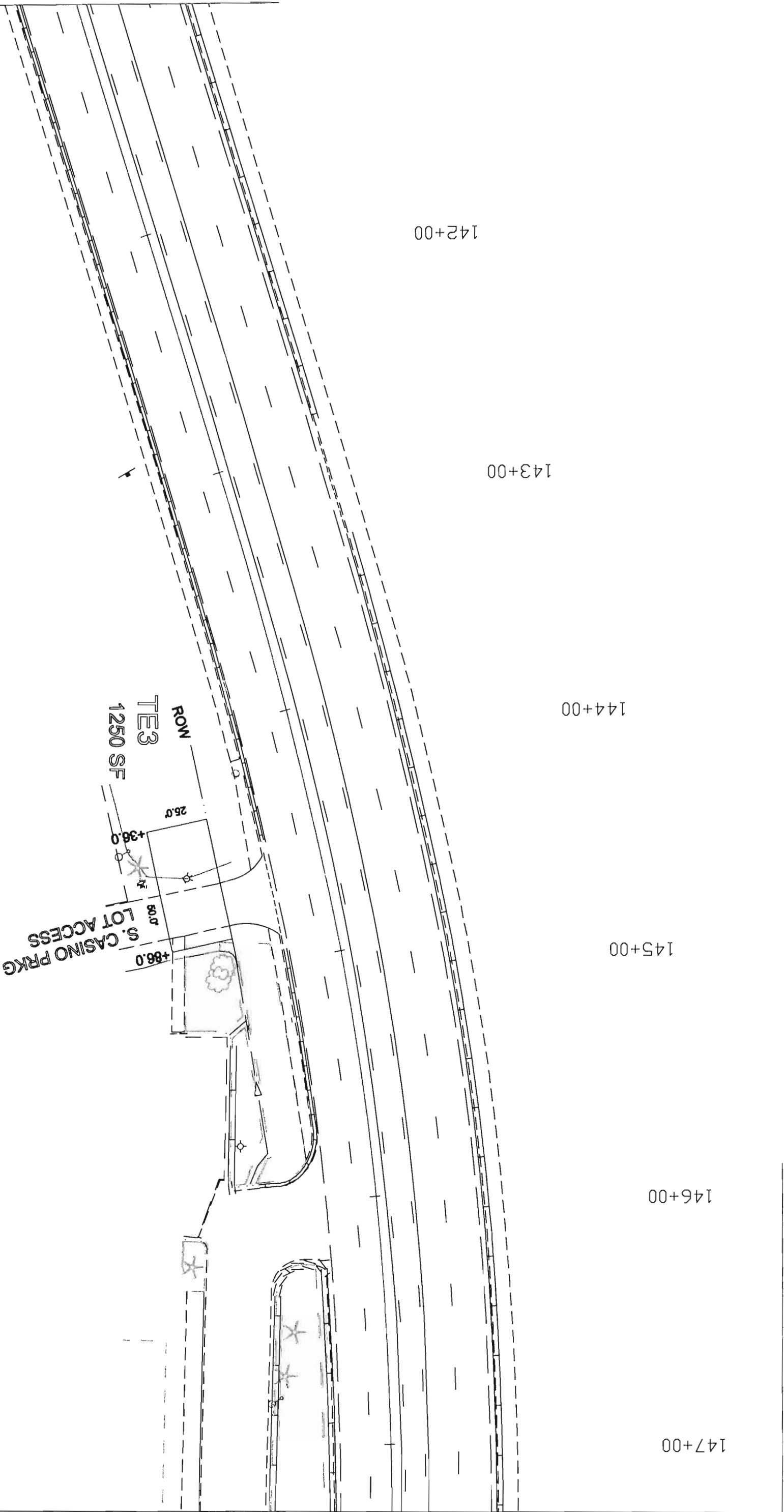
(from project FLH-11(1) Unit 2)

[from CDOH Project S0154(7)]

P.I. 486+00.5



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Units:	Feet		
Colorado Department of Transportation		As Constructed	
Region 5		TEMPORARY EASEMENT LOCATIONS	
Address: 3803 N. MAIN AVE. DURANGO, CO 81301 Phone: 970-385-8360 FAX: 970-385-8361		Project No./Code C172A-014	
No Revisions:		13617	
Revised:		Sheet Number	
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				No Revisions:			
TEMPORARY EASEMENT LOCATIONS				Revised:			
				Void:			
				Designer:	PICKREN		
				Detailer:	PICKREN		
				Project No./Code		C172A-014	
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