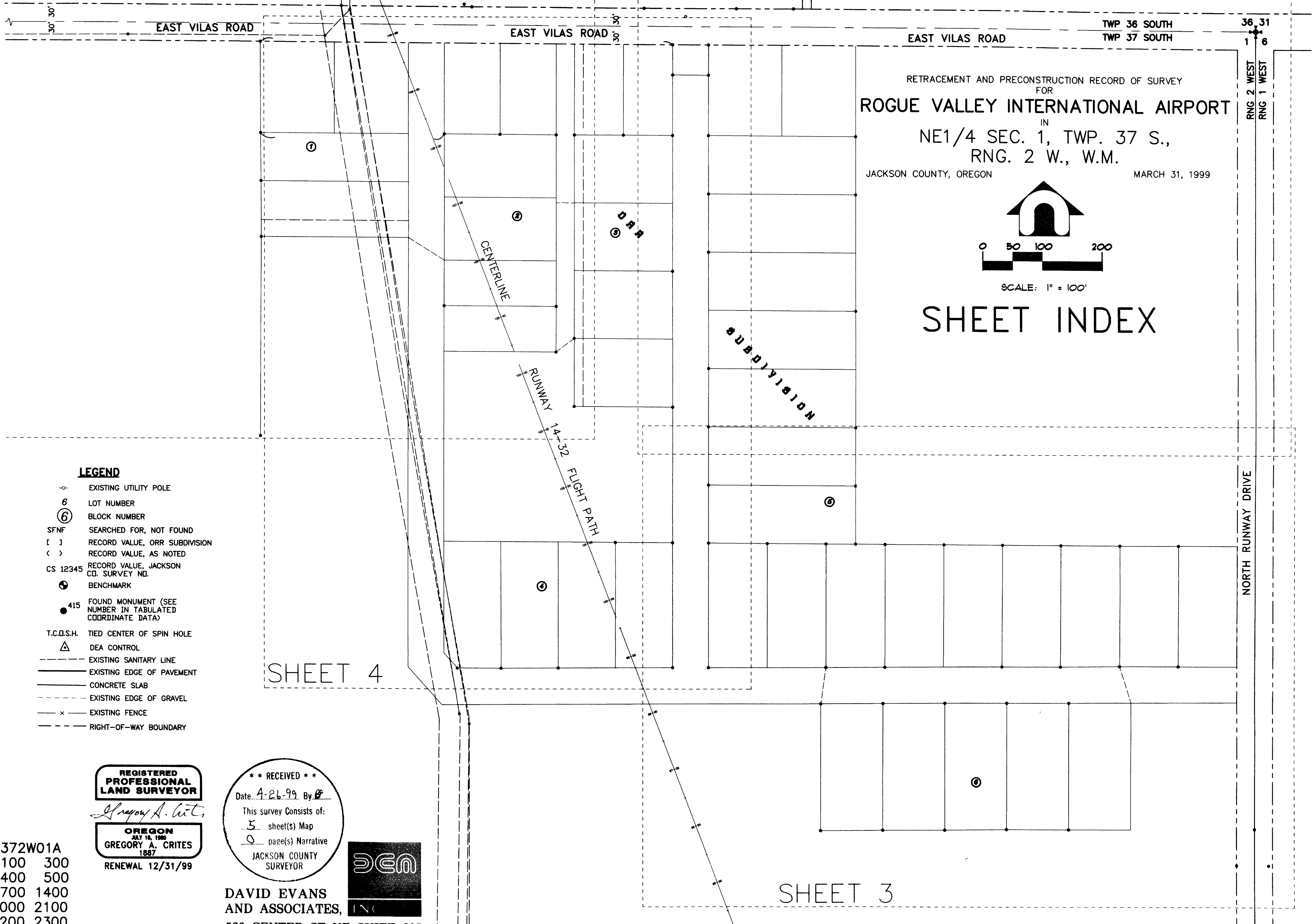
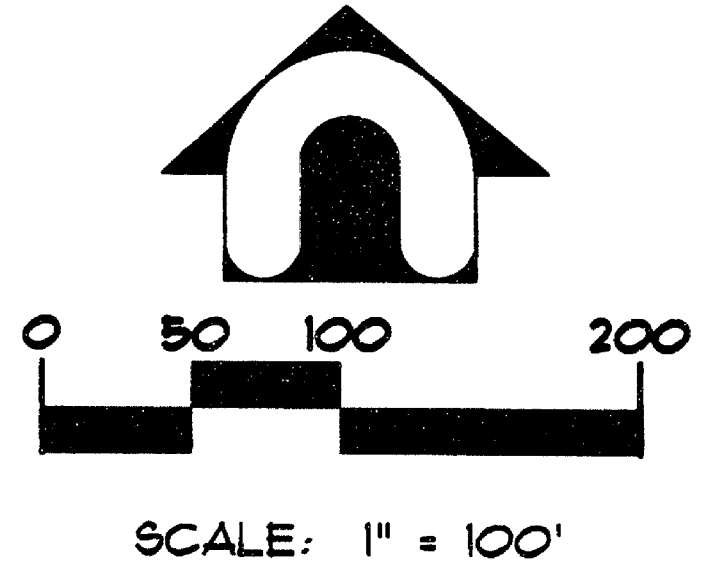


SHEET 5

SHEET 2



RETRACEMENT AND PRECONSTRUCTION RECORD OF SURVEY
 FOR
ROGUE VALLEY INTERNATIONAL AIRPORT
 IN
 NE1/4 SEC. 1, TWP. 37 S.,
 RNG. 2 W., W.M.
 JACKSON COUNTY, OREGON MARCH 31, 1999



SHEET INDEX

LEGEND

- EXISTING UTILITY POLE
- 6 LOT NUMBER
- ⑥ BLOCK NUMBER
- SFNF SEARCHED FOR, NOT FOUND
- [] RECORD VALUE, ORR SUBDIVISION
- < > RECORD VALUE, AS NOTED
- CS 12345 RECORD VALUE, JACKSON CO. SURVEY NO.
- ⊙ BENCHMARK
- 415 FOUND MONUMENT (SEE NUMBER IN TABULATED COORDINATE DATA)
- T.C.O.S.H. TIED CENTER OF SPIN HOLE
- △ DEA CONTROL
- - - EXISTING SANITARY LINE
- EXISTING EDGE OF PAVEMENT
- CONCRETE SLAB
- - - EXISTING EDGE OF GRAVEL
- x - EXISTING FENCE
- - - RIGHT-OF-WAY BOUNDARY

SHEET 4

SHEET 3

SHEET 1 OF 5

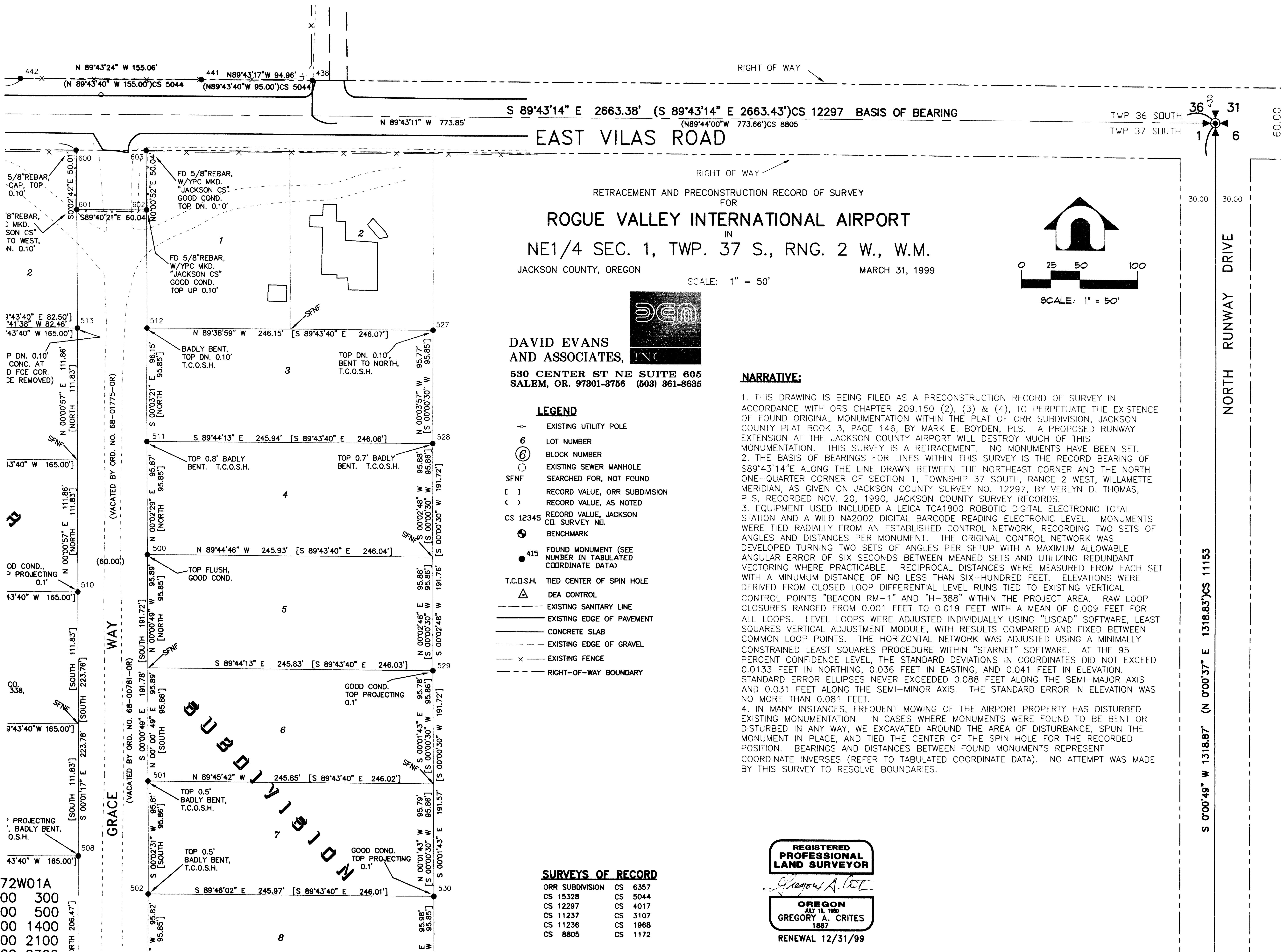
REGISTERED PROFESSIONAL LAND SURVEYOR
Gregory A. Crites
OREGON
 JULY 16, 1980
GREGORY A. CRITES
 1887
 RENEWAL 12/31/99

**** RECEIVED ****
 Date: 4-26-99 By: *[Signature]*
 This survey consists of:
 5 sheet(s) Map
 0 page(s) Narrative
 JACKSON COUNTY SURVEYOR



DAVID EVANS AND ASSOCIATES, INC.
 580 CENTER ST NE SUITE 605
 SALEM, OR. 97301-3756 (503) 361-8635

372W01A
 100 300
 400 500
 700 1400
 2000 2100
 2200 2300
 2400 2401



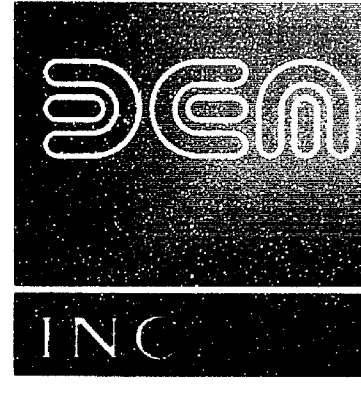
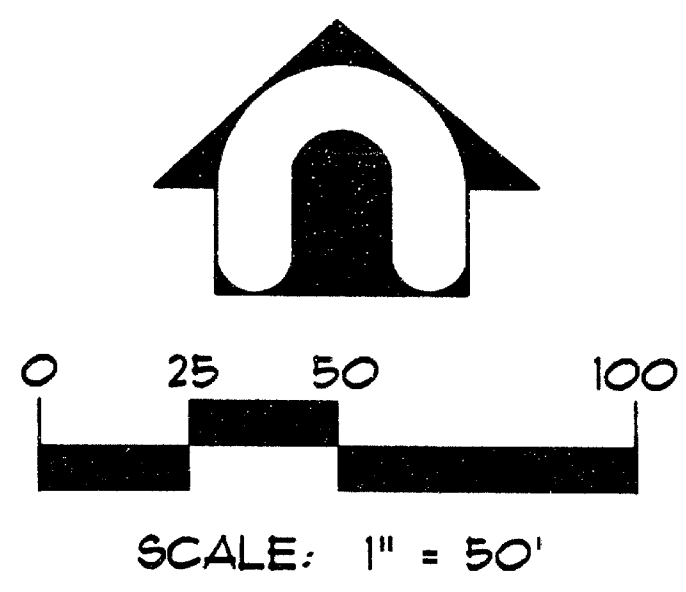
EAST VILAS ROAD
 S 89°43'14" E 2663.38' (S 89°43'14" E 2663.43')CS 12297 BASIS OF BEARING
 N 89°43'11" W 773.85' (N 89°44'00" W 773.66')CS 8805

TWP 36 SOUTH
 TWP 37 SOUTH
 36 31
 1 6
 60.00

RETRACEMENT AND PRECONSTRUCTION RECORD OF SURVEY
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SCALE: 1" = 50'



DAVID EVANS AND ASSOCIATES, INC.
 530 CENTER ST NE SUITE 605
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NARRATIVE:

1. THIS DRAWING IS BEING FILED AS A PRECONSTRUCTION RECORD OF SURVEY IN ACCORDANCE WITH ORS CHAPTER 209.150 (2), (3) & (4), TO PERPETUATE THE EXISTENCE OF FOUND ORIGINAL MONUMENTATION WITHIN THE PLAT OF ORR SUBDIVISION, JACKSON COUNTY PLAT BOOK 3, PAGE 146, BY MARK E. BOYDEN, PLS. A PROPOSED RUNWAY EXTENSION AT THE JACKSON COUNTY AIRPORT WILL DESTROY MUCH OF THIS MONUMENTATION. THIS SURVEY IS A RETRACEMENT. NO MONUMENTS HAVE BEEN SET.

2. THE BASIS OF BEARINGS FOR LINES WITHIN THIS SURVEY IS THE RECORD BEARING OF S89°43'14"E ALONG THE LINE DRAWN BETWEEN THE NORTHEAST CORNER AND THE NORTH ONE-QUARTER CORNER OF SECTION 1, TOWNSHIP 37 SOUTH, RANGE 2 WEST, WILLAMETTE MERIDIAN, AS GIVEN ON JACKSON COUNTY SURVEY NO. 12297, BY VERLYN D. THOMAS, PLS, RECORDED NOV. 20, 1990, JACKSON COUNTY SURVEY RECORDS.

3. EQUIPMENT USED INCLUDED A LEICA TCA1800 ROBOTIC DIGITAL ELECTRONIC TOTAL STATION AND A WILD NA2002 DIGITAL BARCODE READING ELECTRONIC LEVEL. MONUMENTS WERE TIED RADIALLY FROM AN ESTABLISHED CONTROL NETWORK, RECORDING TWO SETS OF ANGLES AND DISTANCES PER MONUMENT. THE ORIGINAL CONTROL NETWORK WAS DEVELOPED TURNING TWO SETS OF ANGLES PER SETUP WITH A MAXIMUM ALLOWABLE ANGULAR ERROR OF SIX SECONDS BETWEEN MEANED SETS AND UTILIZING REDUNDANT VECTORING WHERE PRACTICABLE. RECIPROCAL DISTANCES WERE MEASURED FROM EACH SET WITH A MINIMUM DISTANCE OF NO LESS THAN SIX-HUNDRED FEET. ELEVATIONS WERE DERIVED FROM CLOSED LOOP DIFFERENTIAL LEVEL RUNS TIED TO EXISTING VERTICAL CONTROL POINTS "BEACON RM-1" AND "H-388" WITHIN THE PROJECT AREA. RAW LOOP CLOSURES RANGED FROM 0.001 FEET TO 0.019 FEET WITH A MEAN OF 0.009 FEET FOR ALL LOOPS. LEVEL LOOPS WERE ADJUSTED INDIVIDUALLY USING "LISCAD" SOFTWARE, LEAST SQUARES VERTICAL ADJUSTMENT MODULE, WITH RESULTS COMPARED AND FIXED BETWEEN COMMON LOOP POINTS. THE HORIZONTAL NETWORK WAS ADJUSTED USING A MINIMALLY CONSTRAINED LEAST SQUARES PROCEDURE WITHIN "STARNET" SOFTWARE. AT THE 95 PERCENT CONFIDENCE LEVEL, THE STANDARD DEVIATIONS IN COORDINATES DID NOT EXCEED 0.0133 FEET IN NORTHING, 0.036 FEET IN EASTING, AND 0.041 FEET IN ELEVATION. STANDARD ERROR ELLIPSES NEVER EXCEEDED 0.088 FEET ALONG THE SEMI-MAJOR AXIS AND 0.031 FEET ALONG THE SEMI-MINOR AXIS. THE STANDARD ERROR IN ELEVATION WAS NO MORE THAN 0.081 FEET.

4. IN MANY INSTANCES, FREQUENT MOWING OF THE AIRPORT PROPERTY HAS DISTURBED EXISTING MONUMENTATION. IN CASES WHERE MONUMENTS WERE FOUND TO BE BENT OR DISTURBED IN ANY WAY, WE EXCAVATED AROUND THE AREA OF DISTURBANCE, SPUN THE MONUMENT IN PLACE, AND TIED THE CENTER OF THE SPIN HOLE FOR THE RECORDED POSITION. BEARINGS AND DISTANCES BETWEEN FOUND MONUMENTS REPRESENT COORDINATE INVERSES (REFER TO TABULATED COORDINATE DATA). NO ATTEMPT WAS MADE BY THIS SURVEY TO RESOLVE BOUNDARIES.

LEGEND

- o- EXISTING UTILITY POLE
- 6 LOT NUMBER
- ⑥ BLOCK NUMBER
- EXISTING SEWER MANHOLE
- SFNF SEARCHED FOR, NOT FOUND
- [] RECORD VALUE, ORR SUBDIVISION
- () RECORD VALUE, AS NOTED
- CS 12345 RECORD VALUE, JACKSON CO. SURVEY NO.
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- - - - - EXISTING EDGE OF GRAVEL
- x - - - EXISTING FENCE
- - - - - RIGHT-OF-WAY BOUNDARY

SURVEYS OF RECORD

ORR SUBDIVISION	CS 6357
CS 15328	CS 5044
CS 12297	CS 4017
CS 11237	CS 3107
CS 11236	CS 1968
CS 8805	CS 1172

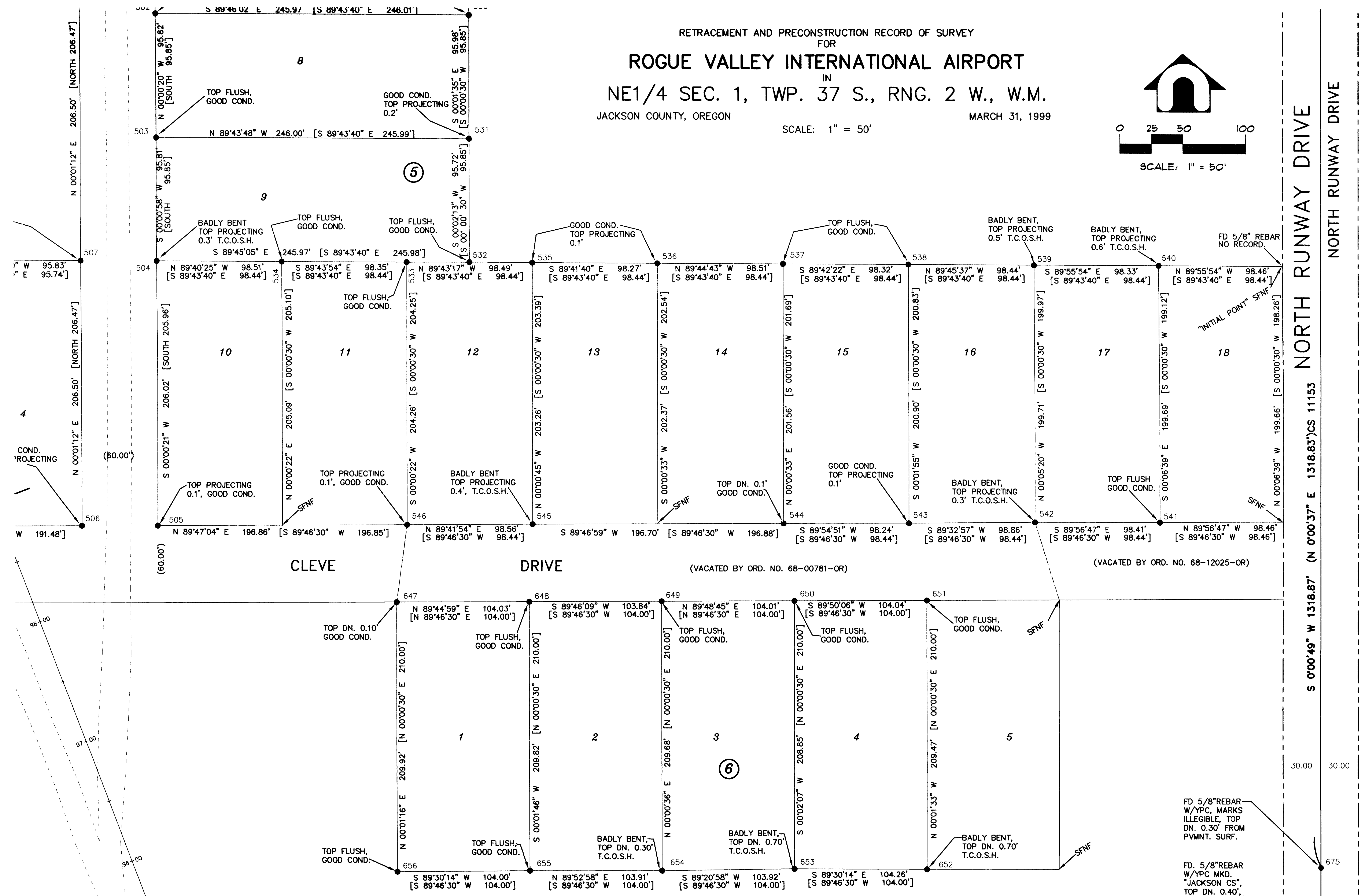
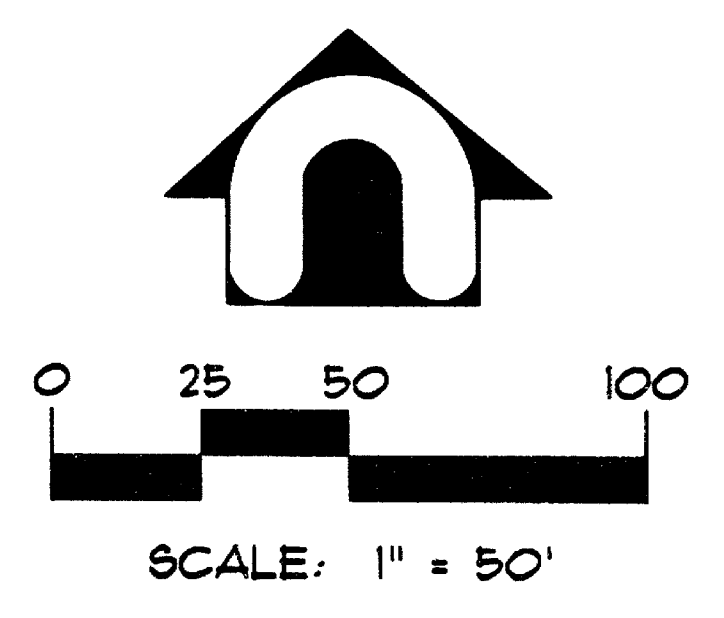
REGISTERED PROFESSIONAL LAND SURVEYOR

Gregory A. Crites
 OREGON
 JUL 15, 1980
 GREGORY A. CRITES
 1887
 RENEWAL 12/31/99

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 JACKSON COUNTY, OREGON

SCALE: 1" = 50'

MARCH 31, 1999



372W01A
100 300
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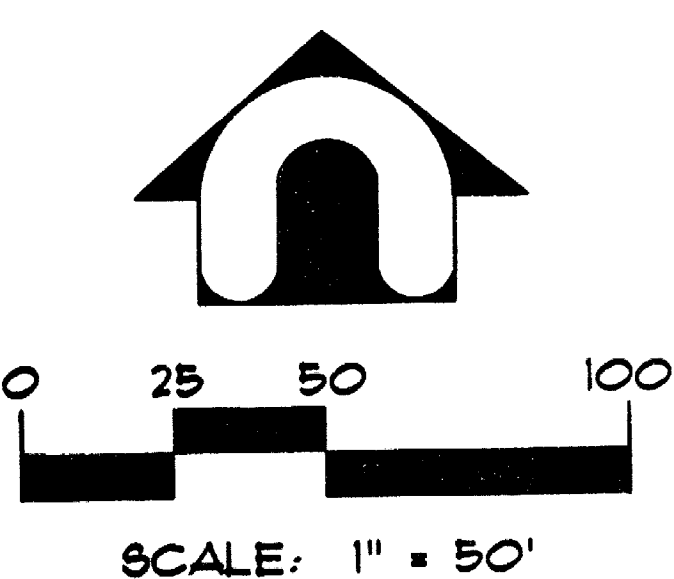
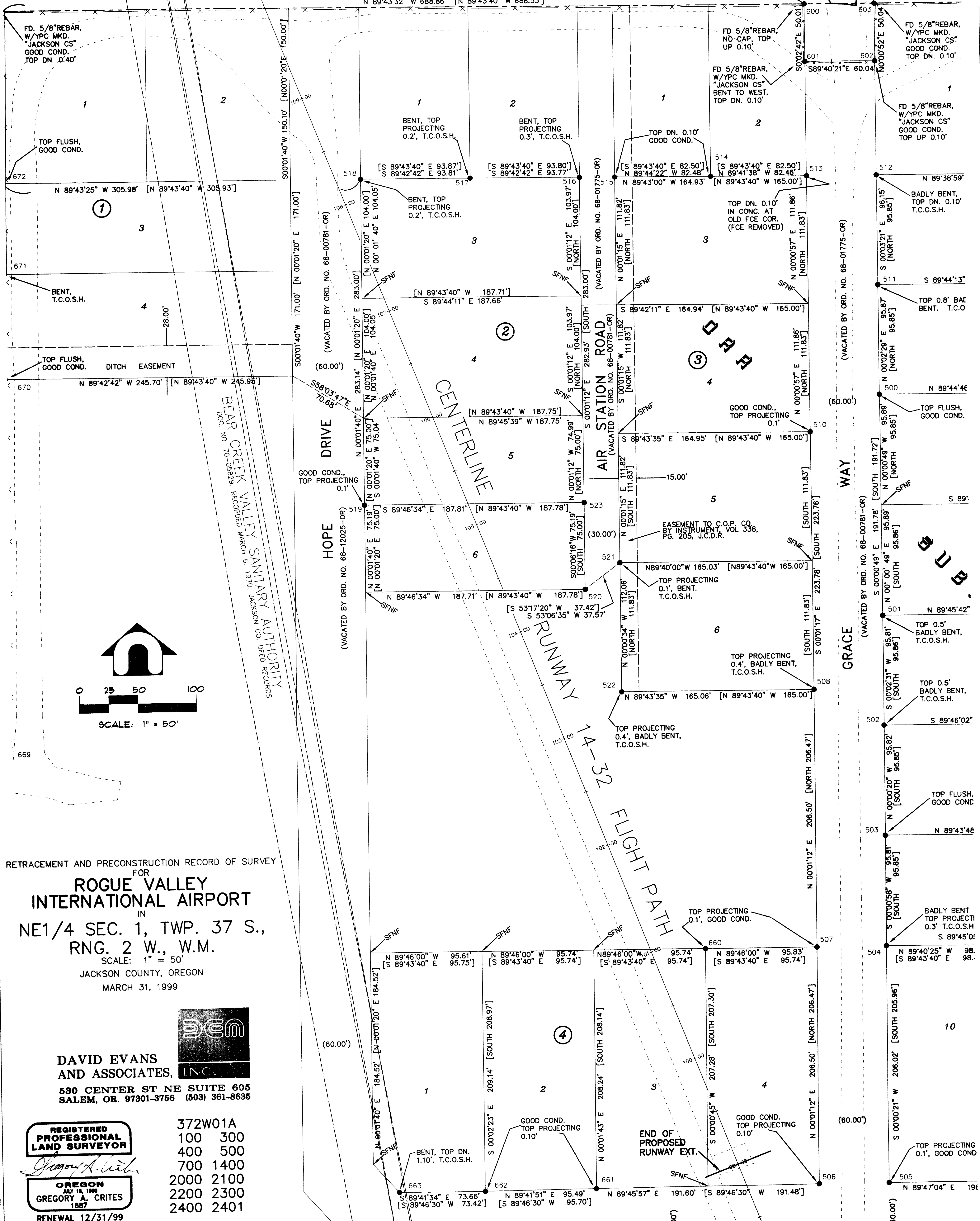


- FD 5/8" REBAR W/YPC. MARKS ILLEGIBLE, TOP DN. 0.30' FROM PVMNT. SURF.
- FD 5/8" REBAR W/YPC MKD. "JACKSON CS", TOP DN. 0.40', 0.85' NE OF FCE COR.
- FD 5/8" REBAR W/YPC MKD. "JACKSON CS", TOP FLUSH 0.90' NE OF FCE COR.

SIS OF BEARING

EAST VILAS ROAD

30' 30



RETRACEMENT AND PRECONSTRUCTION RECORD OF SURVEY
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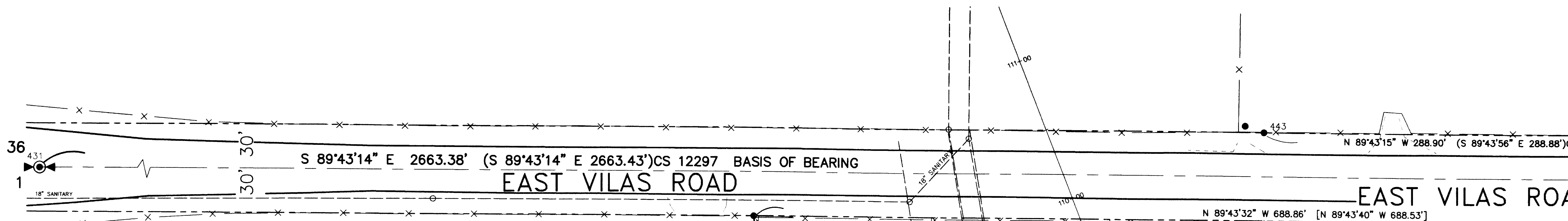


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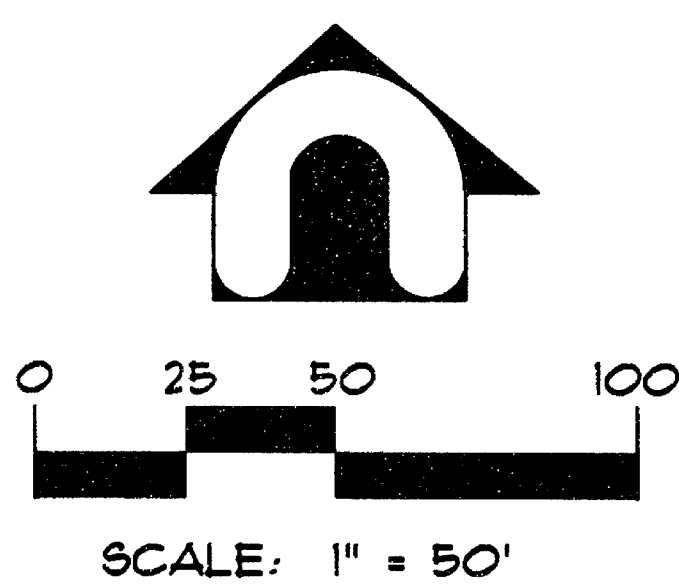
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POINT #	NORTHING	EASTING	DESCRIPTION
400	19635.371	3522.098	FD BC
401	19246.075	3411.736	FD BC
402	15323.760	4617.256	FD MON
420	22948.945	2339.432	FD 5/8" IR
421	22948.214	2396.709	FD 5/8" IR
422	23257.158	2708.946	FD 5/8" IR
423	22949.902	2029.435	FD 5/8" IR
424	23258.349	2398.036	FD 5/8" IR
425	23258.910	2240.990	FD 5/8" IR
430	22272.995	3522.659	FD BC
431	22285.984	859.312	FD BC
434	22946.765	2742.364	FD 5/8" IR
435	22931.751	2747.231	FD 5/8" IR
436	22931.918	2707.314	FD 5/8" IR
437	22608.210	2428.464	FD 3/4" IP
438	22306.780	2748.969	FD 3/4" IP
439	22933.743	2430.037	FD 3/4" IP
440	22946.910	2712.357	FD 5/8" IR
441	22307.241	2654.009	FD MON
442	22307.991	2498.953	FD MON
443	22309.398	2210.062	FD 1/2" IP
500	21905.615	2606.442	FD 5/8" SMOOTH IR
501	21713.833	2606.487	FD 5/8" SMOOTH IR
502	21618.026	2606.417	FD 5/8" SMOOTH IR
503	21522.207	2606.426	FD 5/8" SMOOTH IR
504	21426.393	2606.399	FD 5/8" SMOOTH IR
505	21220.371	2606.378	FD 5/8" SMOOTH IR
506	21220.172	2546.340	FD 5/8" SMOOTH IR
507	21426.668	2546.412	FD 5/8" SMOOTH IR
508	21650.168	2546.480	FD 5/8" SMOOTH IR
510	21873.944	2546.397	FD 5/8" SMOOTH IR
511	22001.487	2606.505	FD 5/8" SMOOTH IR
512	22097.634	2606.413	FD 5/8" SMOOTH IR
513	22097.662	2546.459	FD 5/8" SMOOTH IR
514	22098.103	2464.006	FD 5/8" SMOOTH IR
515	22098.478	2381.530	FD 5/8" SMOOTH IR
516	22098.583	2351.398	FD 5/8" SMOOTH IR
517	22099.056	2257.634	FD 5/8" SMOOTH IR
518	22099.528	2163.828	FD 5/8" SMOOTH IR
519	21816.389	2163.690	FD 5/8" SMOOTH IR
520	21740.464	2351.360	FD 5/8" SMOOTH IR
521	21763.017	2381.407	FD 5/8" SMOOTH IR
522	21650.957	2381.427	FD 5/8" SMOOTH IR
523	21815.654	2351.497	FD 5/8" SMOOTH IR
527	22096.129	2852.553	FD 5/8" SMOOTH IR
528	22000.358	2852.443	FD 5/8" SMOOTH IR
529	21808.595	2852.287	FD 5/8" SMOOTH IR
530	21617.025	2852.381	FD 5/8" SMOOTH IR
531	21521.048	2852.426	FD 5/8" SMOOTH IR
532	21425.326	2852.365	FD 5/8" SMOOTH IR
533	21425.370	2803.261	FD 5/8" SMOOTH IR
534	21425.832	2704.910	FD 5/8" SMOOTH IR
535	21424.892	2901.750	FD 5/8" SMOOTH IR
536	21424.368	3000.022	FD 5/8" SMOOTH IR
537	21423.930	3098.529	FD 5/8" SMOOTH IR
538	21423.425	3196.846	FD 5/8" SMOOTH IR
539	21423.014	3295.285	FD 5/8" SMOOTH IR
540	21422.897	3393.614	FD 5/8" SMOOTH IR

POINT #	NORTHING	EASTING	DESCRIPTION
541	21223.207	3394.000	FD 5/8" SMOOTH IR
542	21223.299	3295.595	FD 5/8" SMOOTH IR
543	21222.522	3196.735	FD 5/8" SMOOTH IR
544	21222.374	3098.496	FD 5/8" SMOOTH IR
545	21221.630	2901.794	FD 5/8" SMOOTH IR
546	21221.111	2803.239	FD 5/8" SMOOTH IR
600	22247.757	2546.546	FD 5/8" IR
601	22197.742	2546.540	FD 5/8" IR
602	22197.399	2606.576	FD 5/8" IR
603	22247.437	2606.589	FD 5/8" IR
647	21161.124	2794.934	FD 5/8" IR
648	21161.577	2898.961	FD 5/8" IR
649	21161.997	3002.800	FD 5/8" IR
650	21162.337	3106.806	FD 5/8" IR
651	21162.636	3210.841	FD 5/8" IR
652	20953.168	3210.935	FD 5/8" IR
653	20953.492	3106.676	FD 5/8" IR
654	20952.311	3002.763	FD 5/8" IR
655	20952.099	2898.853	FD 5/8" IR
656	20951.199	2794.856	FD 5/8" IR
660	21427.058	2450.589	FD 5/8" IR
661	21219.390	2354.747	FD 5/8" IR
662	21218.886	2259.257	FD 5/8" IR
663	21219.281	2185.596	FD 5/8" IR
669	21601.504	1856.688	FD 5/8" IR
670	21930.053	1858.046	FD 5/8" IR
671	22022.021	1857.985	FD 5/8" IR
672	22101.004	1857.847	FD 5/8" IR
673	22251.056	1857.690	FD 5/8" IR
674	22313.763	2197.217	FD 5/8" IR
675	20954.127	3522.343	FD 5/8" IR
681	16960.928	6224.137	FD 5/8" IR
682	20894.421	3492.526	FD 5/8" IR
683	20894.090	3545.740	FD 5/8" IR

LOCAL COORDINATE SYSTEM

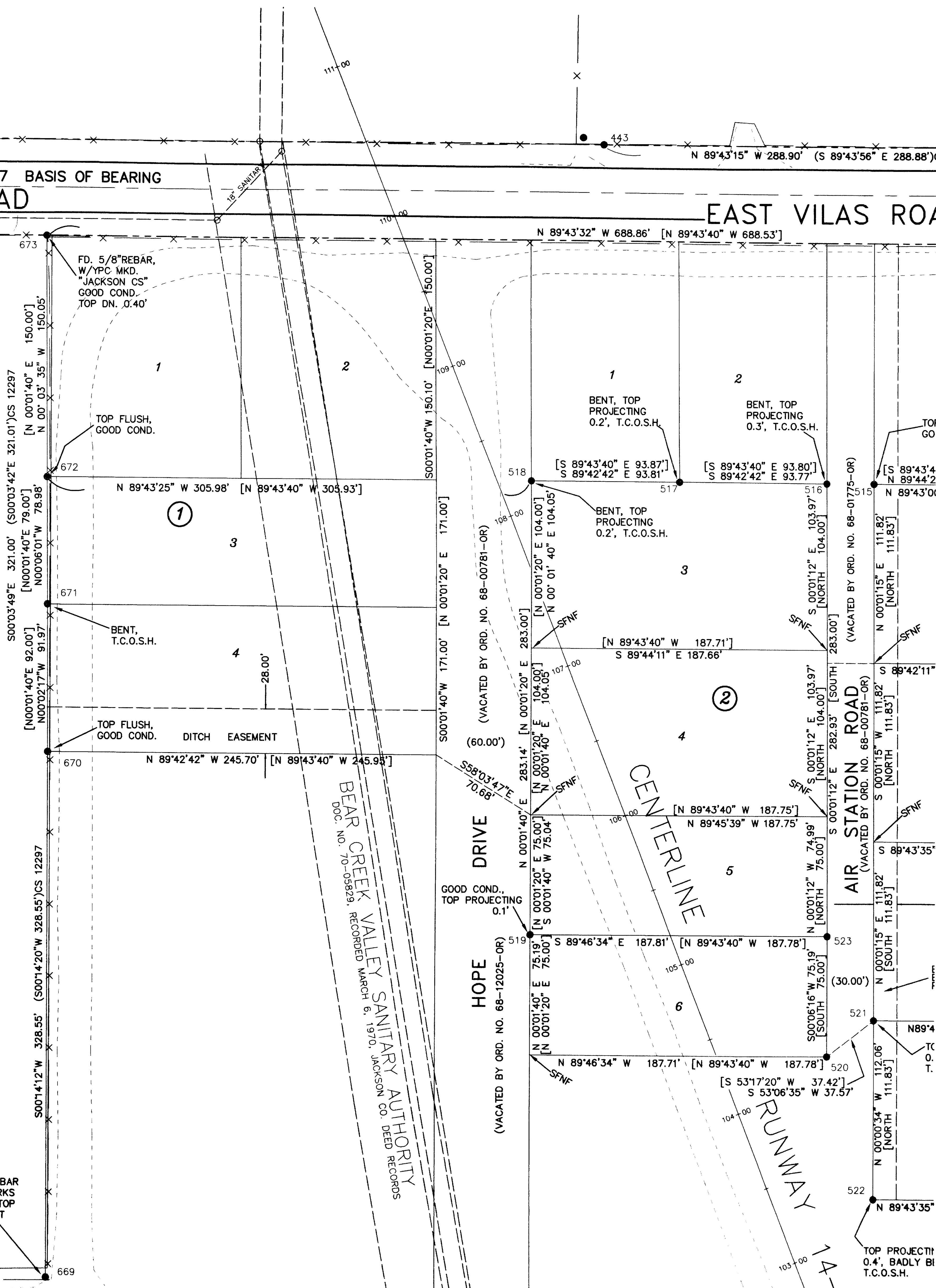
DAVID EVANS AND ASSOCIATES, INC.
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LOCAL COORDINATE SYSTEM