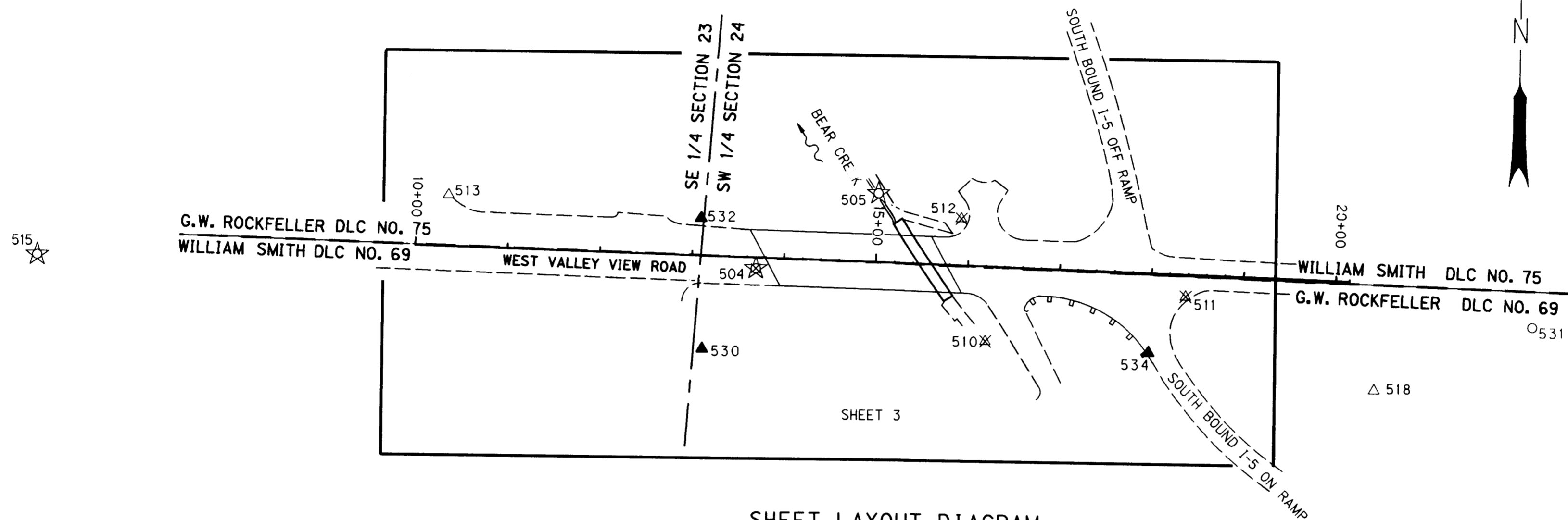
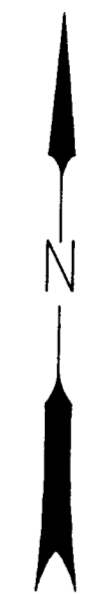


SE 1/4 SEC 23 T38S R1W WM  
 SW 1/4 SEC 24 T38S R1W WM

**\*\* RECEIVED \*\***  
 DATE 7/18/07 BY AE  
 This survey consists of:  
3 sheet(s) Map  
0 page(s) Narrative  
 JACKSON COUNTY  
 SURVEYOR



**SHEET LAYOUT DIAGRAM**  
 NOT TO SCALE

**NARRATIVE**

THIS SURVEY MONUMENTS THE RIGHT-OF-WAY ACQUIRED FOR THE CONSTRUCTION OF THE WEST VALLEY VIEW ROAD BRIDGE OVER BEAR CREEK. THE ALIGNMENT AND RIGHT-OF-WAY ARE BASED ON JACKSON COUNTY SURVEY NO. 18488, BY OBEC CONSULTING ENGINEERS. THE SURVEY IS LOCATED ON WEST VALLEY VIEW ROAD WEST OF INTERSTATE NO. 5. THE CONSTRUCTION OF THE PROJECT WAS COMPLETED BETWEEN MAY, 2005 AND JUNE, 2007.

REFERENCE DOCUMENTS USED: C.S. 18488

DEED REFERENCES USED: INSTRUMENT NO. 2005-018628 AND INSTRUMENT NO. 2005-036604.

THE BEGINNING OF THIS MONUMENTATION SURVEY IS AT STATION 10+00, AND ENDS AT STATION 20+14.63 ON WEST VALLEY VIEW ROAD. THE ALIGNMENT USED FOR THE NEW RIGHT-OF-WAY WAS FROM INSTRUMENT NO.s 2005-018628 AND 2005-036604.

THE CONTROL NETWORK AS ESTABLISHED PER C.S. 18488 WAS AUGMENTED TO REPLACE NETWORK CONTROL POINTS DESTROYED DURING CONSTRUCTION IN ORDER TO SET THE MONUMENTS AT THE NEW RIGHT-OF-WAY LOCATIONS. THE NETWORK WAS THEN ADJUSTED FROM RAW FIELD DATA USING A LEAST SQUARES ADJUSTMENT SOFTWARE CONSTRAINED TO UNDISTURBED REMAINING CONTROL FROM C.S. 18488. THE RIGHT-OF-WAY MONUMENTATION WAS THEN SET USING THE ALIGNMENT AND THE STATION AND OFFSET CALLS GIVEN IN INSTRUMENT NO.s 2005-018628 AND 2005-036604. THE CALLS ARE RELATIVE TO THE "ENGINEERS CENTERLINE" AS PER SAID INSTRUMENTS. THE MONUMENTS WERE SET DURING MAY OF 2007, BY RADIAL COORDINATE STAKEOUT FROM THE CONTROL NETWORK.

THE BASIS OF BEARINGS WAS ESTABLISHED BY HOLDING TWO NETWORK POINTS, 515 AND 513. THE DOCUMENTATION OF THESE NETWORK POINTS IS FILED WITH THE JACKSON COUNTY SURVEYOR'S OFFICE AS C.S. 18488.

THIS SURVEY WAS PERFORMED IN MAY AND JUNE OF 2007. THE SURVEY EQUIPMENT CONSISTED OF ONE TRIMBLE S6 ROBOTIC TOTAL STATION, ONE TRIMBLE 5603 ROBOTIC TOTAL STATION, AND TWO TRIMBLE TSC2 DATA COLLECTORS.

LEGEND	
☆	FOUND GPS NETWORK POINT
△	FOUND NETWORK POINT
○	FOUND MONUMENT
▲	SET NETWORK POINT
×	DESTROYED POINT



REGISTERED  
 PROFESSIONAL  
 LAND SURVEYOR

OREGON  
 JULY 12, 2005  
 ARON J. CUTSFORTH  
 65696

RENEWAL DATE: DEC. 31, 2007  
 SIGNED: July 18, 2007

ANDY AUSLAND OBEC  
 APPROVED BY: GROUP MANAGER-TITLE

FILE NAME: 114047mon.dgn

**OBEC CONSULTING ENGINEERS**  
 Corporate Office: 820 COUNTRY CLUB ROAD, SUITE 1008 EUGENE, OREGON 97401-9088, 541-683-0000  
 2235 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1285, 503-589-4100  
 1335 POPLAR DRIVE MEDFORD, OREGON 97504-5207, 541-774-5880  
 5005 SW MEADOWS ROAD, SUITE 120 LAKE OSWEGO, OREGON 97035, 503-620-6103

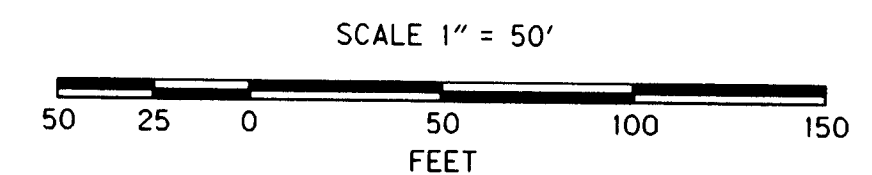
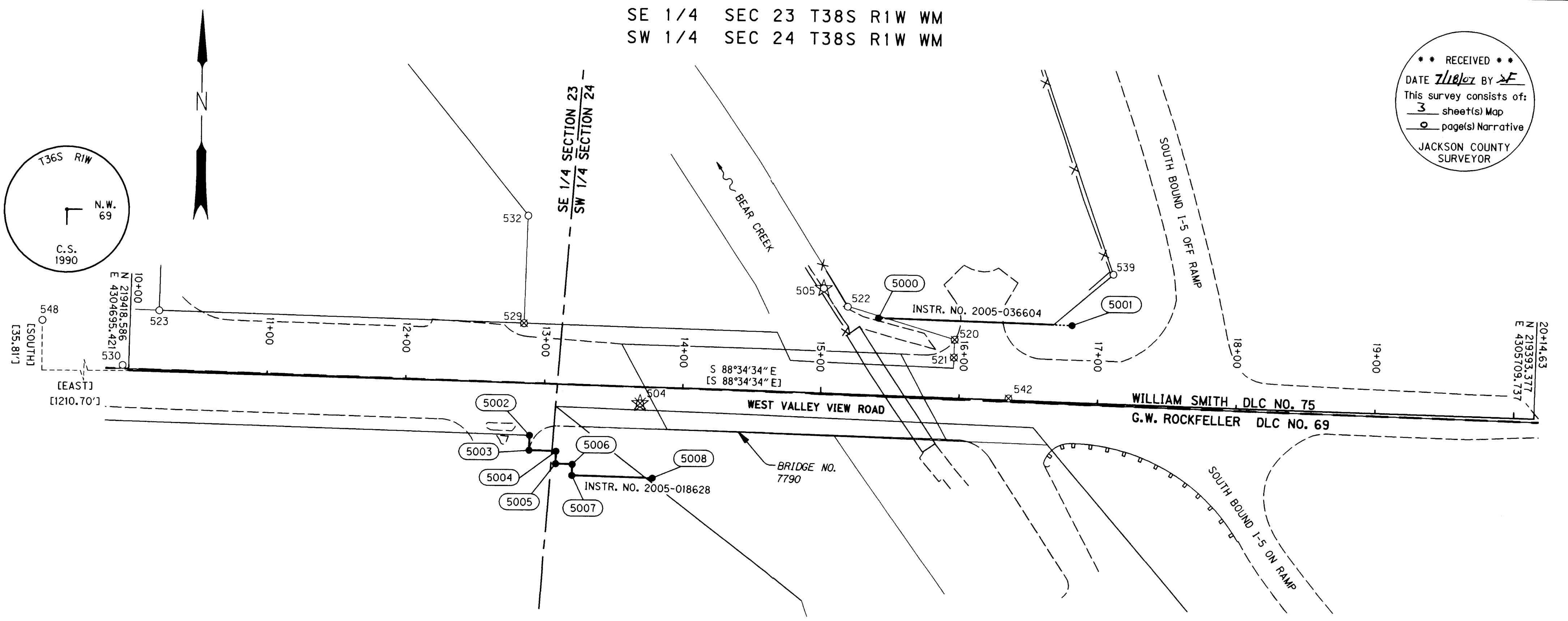
**RIGHT-OF-WAY BOUNDARY  
 MONUMENTATION SURVEY  
 WEST VALLEY VIEW ROAD  
 BRIDGE OVER BEAR CREEK  
 FOR JACKSON COUNTY  
 ROADS, PARKS, AND PLANNING SERVICES**

JACKSON COUNTY, OREGON JULY 2007 SCALE 1" = 50'

DESIGNED: ARON CUTSFORTH PROJ. NO. 114-047 SHT. 1 OF 3  
 DRAWN: R. BEAUSOLEIL CHK'D: A. AUSLAND

SE 1/4 SEC 23 T38S R1W WM  
 SW 1/4 SEC 24 T38S R1W WM

RECEIVED  
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 JACKSON COUNTY SURVEYOR



FND = FOUND  
 CS = COUNTY SURVEY  
 RPC = RED PLASTIC CAP  
 YPC = YELLOW PLASTIC CAP  
 \*\* = MONUMENT DESTROYED DURING CONSTRUCTION

RECOVERED MONUMENT LIST (RECORD NORTHING & EASTING PER C.S. 18488)

PT. ID.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION
520	219445.51	4305291.78	15+95.50	41.74' LT	05/31/2007	FND 5/8" REBAR W/YPC "JACKSON CS" - CS 12299 **
521	219432.80	4305291.36	15+95.39	29.02' LT	05/31/2007	FND 5/8" REBAR W/YPC "JACKSON CS" - CS 12299 **
522	219468.02	4305214.37	15+17.55	62.32' LT	05/31/2007	FND 5/8" REBAR W/YPC "JACKSON CS" - CS 12299
523	219461.71	4304717.15	10+20.64	43.65' LT	05/31/2007	FND 3/4" IRON PIPE W/RED PLASTIC PLUG - CS 14662
529	219454.25	4304980.11	12+83.70	42.73' LT	05/31/2007	FND 5/8" IRON ROD W/RPC - CS 14662 **
530	219422.51	4304691.01	N/A	N/A	05/31/2007	FND 2 1/2" ALUMINUM DISK - CS 18011
532	219531.45	4304982.41	12+84.09	119.96' LT	05/31/2007	FND 3/4" IRON PIPE W/RED PLASTIC PLUG "BCE ORE 2579" - CS 14662
539	219493.63	4305405.97	17+08.45	92.68' LT	05/31/2007	FND 5/8" REBAR, O.S.H.D. - CS 7859
542	219404.13	4305330.96	16+35.69	1.34' LT	05/31/2007	FND 5/8" REBAR BENT EAST - CS 14907 **
548	219454.40	4303484.72	N/A	N/A	05/31/2007	FND 2 1/2" BRASS DISK NW DLC 69, DOWN 0.10' - CS 14907

SET MONUMENT LIST

PT. ID.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION
5000	219460.15	4305236.63	15+40.00	55.00' LT	05/17/2007	SET 5/8" x 30" REBAR W/RPC STAMPED "OBEC LS 65696", FALSE CALL
5001	219456.67	4305376.59	16+80.00	55.00' LT	05/17/2007	SET 5/8" x 30" REBAR W/RPC STAMPED "OBEC LS 65696", FALSE CALL
5002	219374.04	4304984.85	12+90.44	37.34' RT	05/31/2007	SET 5/8" x 30" REBAR W/RPC STAMPED "OBEC LS 65696"
5003	219363.38	4304984.59	12+90.44	48.00' RT	05/31/2007	SET 1" DIAMETER BRONZE DISK STAMPED "OBEC"
5004	219362.90	4305004.14	13+10.00	48.00' RT	05/17/2007	SET 5/8" x 30" REBAR W/RPC STAMPED "OBEC LS 65696"
5005	219353.90	4305003.92	13+10.00	57.00' RT	05/17/2007	SET 5/8" x 30" REBAR W/RPC STAMPED "OBEC LS 65696"
5006	219353.60	4305015.96	13+22.00	57.00' RT	05/17/2007	SET 5/8" x 30" REBAR W/RPC STAMPED "OBEC LS 65696"
5007	219345.60	4305015.72	13+22.00	65.00' RT	05/17/2007	SET 5/8" x 30" REBAR W/RPC STAMPED "OBEC LS 65696"
5008	219344.16	4305073.70	13+80.00	65.00' RT	05/17/2007	SET 5/8" x 30" REBAR W/RPC STAMPED "OBEC LS 65696", FALSE CALL

**LEGEND**

- SET MONUMENT
- FOUND MONUMENT
- ☆ FOUND GPS POINT PER C.S. 18488
- × DESTROYED POINT
- NEW RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- - - EDGE OF PAVEMENT
- x - FENCE
- ..... FALSE CALL LINE
- (XXXX) RIGHT-OF-WAY POINT NO.
- [ ] RECORD PER INSTR. NO. 2005-018628

**ENGLISH**

REGISTERED PROFESSIONAL LAND SURVEYOR

ARON J. CUTSFORTH

OREGON JULY 12, 2005

RENEWAL DATE: DEC. 31, 2007  
 SIGNED: July 18, 2007

FILE NAME: 114047mon.dgn

CONSULTING ENGINEERS  
 820 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-8088, 541-883-8000  
 2235 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1286, 503-588-4100  
 1336 POPLAR DRIVE MEDFORD, OREGON 97504-6207, 541-774-5590  
 5005 SW MEADOWS ROAD, SUITE 120 LAKE OSWEGO, OREGON 97035, 503-620-6103

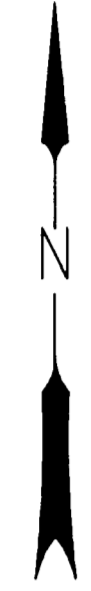
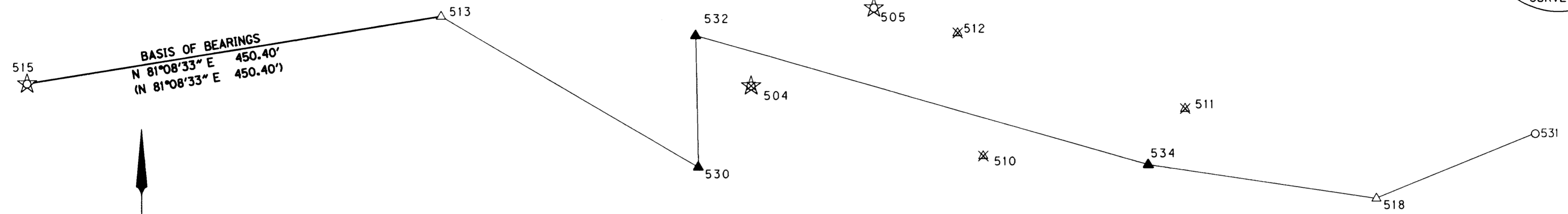
**RIGHT-OF-WAY BOUNDARY MONUMENTATION SURVEY**  
**WEST VALLEY VIEW ROAD BRIDGE OVER BEAR CREEK**  
 FOR JACKSON COUNTY ROADS, PARKS, AND PLANNING SERVICES

JACKSON COUNTY, OREGON JULY 2007 SCALE 1" = 50'

DESIGNED: ARON CUTSFORTH PROJ. NO. 114-047 SHT. 3 OF 3  
 DRAWN: R. BEAUSOLEIL CHK'D: A. AUSLAND

SE 1/4 SEC 23 T38S R1W WM  
 SW 1/4 SEC 24 T38S R1W WM

RECEIVED  
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**BASIS OF BEARING**  
 PER RECORDED SURVEY  
 NO. 18488 BY OBEC  
 CONSULTING ENGINEERS

**BASIS OF BEARING AND  
 CONTROL NETWORK SCHEMATIC**  
 NOT TO SCALE

**CONFIDENCE LEVEL LIMITS**

POINT NO.	SEMI MAJOR	SEMI MINOR	ORIENTATION*
530	0.05 ft	0.03 ft	62°08'03"
532	0.06 ft	0.03 ft	72°38'21"
534	0.04 ft	0.03 ft	82°10'20"

\* NORTH AZIMUTH  
 FIXED POINTS NOT SUBJECT TO LEAST SQUARES  
 ADJUSTMENT OR CONFIDENCE LEVEL ANALYSIS:  
 513, 515, 518, AND 531

**RESIDUALS FOR DISTANCES**

BETWEEN	DISTANCE**	DISTANCE RESIDUAL
515 513	450.40 ft	0.02 ft
513 530	320.97 ft	-0.02 ft
530 532	141.10 ft	0.00 ft
532 534	506.87 ft	-0.01 ft
534 518	247.36 ft	-0.01 ft
518 531	184.37 ft	0.01 ft

\*\* CALCULATED HORIZONTAL DISTANCES IN FEET  
 DERIVED FROM THE MEASURED SLOPE DISTANCES

**RESIDUALS FOR ANGLES**

BACKSIGHT STATION	OCCUPIED STATION	FORESIGHT STATION	RESIDUAL
515	513	530	00°00'00"
513	530	532	-00°00'04"
530	532	534	-00°00'32"
532	534	518	00°00'01"
534	518	531	00°00'03"

**CONTROL NARRATIVE**

PROJECT: WEST VALLEY VIEW ROAD BRIDGE #7790 @ BEAR CREEK  
 LOCATION: WEST VALLEY VIEW ROAD, JACKSON COUNTY  
 OBEC PROJECT: 114-047  
 SURVEY DATUM: LOCAL DATUM PLANE (LDP)  
 HORIZONTAL - LDP DERIVED FROM OREGON STATE PLANE  
 NAD 83(98) (INTERNATIONAL FEET) PER CS 18488  
 VERTICAL - NAVD 88 (INTERNATIONAL FEET)

THE INITIAL GPS CONTROL NETWORK FOR THIS PROJECT WAS SET IN JUNE OF 2004 BY OBEC CONSULTING ENGINEERS AND RECORDED AS SURVEY NO. 18488. TO CONVERT THE LDP COORDINATES TO OREGON STATE PLANE SOUTH ZONE - NAD83 (98), MULTIPLY THE COORDINATES BY A COMBINED SCALE FACTOR OF 0.99994213.

THIS SURVEY WAS PERFORMED IN INTERNATIONAL FEET. TO CONVERT FROM INTERNATIONAL FEET TO METERS MULTIPLY BY 0.3048. TO CONVERT FROM INTERNATIONAL FEET TO U.S. SURVEY FEET MULTIPLY BY 0.999998.

CONTROL POINTS FOR THIS SURVEY WERE NOT SET ON AND DO NOT REPRESENT PROPERTY LINES OR RIGHT OF WAY LINES AND ARE INTENDED FOR USE BY JACKSON COUNTY ROADS, PARKS AND PLANNING SERVICES AND OBEC CONSULTING ENGINEERS IN SUPPORT OF FUTURE PROJECTS. IT IS NOT THE INTENT OF JACKSON COUNTY ROADS, PARKS AND PLANNING SERVICES OR OBEC CONSULTING ENGINEERS TO PERPETUATE THESE CONTROL POINTS AS MONUMENTS.

**LEGEND**

- ☆ FOUND GPS NETWORK POINT
- △ FOUND NETWORK POINT
- FOUND MONUMENT
- ▲ SET NETWORK POINT
- × DESTROYED POINT
- ▲—▲— LINES OF OBSERVATION
- ( ) RECORD PER CS 18488



REGISTERED PROFESSIONAL LAND SURVEYOR

ARON J. CUTSFORTH  
 JULY 12, 2005  
 65696

RENEWAL DATE: DEC. 31, 2007  
 SIGNED: [Signature]

FND = FOUND  
 C.S. = COUNTY SURVEY  
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**NETWORK POINT COORDINATE TABLE**

PT. ID.	LDP NORTHING	LDP EASTING	DATE	DESCRIPTION
513	219473.62	4304730.58	5-22-2007	FND MAGNAIL & WASHER "OBEC CONTROL", C.S. 18488
515	219404.27	4304285.55	5-22-2007	FND MAGNAIL & WASHER "OBEC CONTROL", C.S. 18488
518	219277.08	4305736.98	5-22-2007	FND HUB & TACK, C.S. 18488
530	219310.47	4305006.99	5-22-2007	SET MAGNAIL AND WASHER "OBEC CONTROL"
531	219346.58	4305907.75	5-22-2007	FND 2 1/2" BRASS DISK IN CONCRETE "T38S R1W DLC REF MON NE 69 1996"
532	219451.55	4305004.64	5-22-2007	SET MAGNAIL
534	219313.30	4305492.29	5-22-2007	SET MAGNAIL

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 www.obec.com

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