

NE 1/4 SECTION 31 T12S R37E WM
 NW 1/4 SECTION 31 T12S R37E WM
 SE 1/4 SECTION 31 T12S R37E WM
 SW 1/4 SECTION 31 T12S R37E WM

NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO RESOLVE AND MONUMENT THE BOUNDARY OF A TRACT OF LAND ACQUIRED BY A WARRANTY DEED RECORDED IN BOOK 140, PAGE 522, BAKER COUNTY DEED RECORDS, BY THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT) FOR A STOCK PILE SITE FOR THE ODOT REGION 5 GEOLOGY SECTION. THIS SURVEY IS ALSO TO RESOLVE A QUARRY LEASE BOUNDARY OBTAINED BY THE OREGON DEPARTMENT OF TRANSPORTATION FROM THE BUREAU OF LAND MANAGEMENT (BLM) FOR A QUARRY KNOWN AS CEMETERY QUARRY.

TO ESTABLISH THE BOUNDARIES OF SAID STOCK PILE SITE AND SAID QUARRY LEASE BOUNDARY, A SUBDIVISION OF SECTION 31, T12S, R37E WAS REQUIRED. A DILIGENT SEARCH FOR ALL SECTION AND QUARTER SECTION CORNERS WAS MADE FOR SECTION 31. THE ORIGINAL TOWNSHIP CORNER AT THE SOUTHWEST CORNER OF SECTION 31 WAS RECOVERED THAT WAS SET BY THE GENERAL LAND OFFICE (GLO) IN SEPTEMBER 1881. THE NORTHWEST CORNER OF SECTION 31 HAD BEEN REMONUMENTED IN 1987 BY WILLIAM R. WELLS AND WAS RECOVERED AS SHOWN ON CERTIFIED RECORD OF LAND CORNER MONUMENTATION SURVEY NO.12-36-30. THE STONE AT THE NORTH QUARTER CORNER WAS ALSO RECOVERED AS DESCRIBED IN THE GENERAL LAND OFFICE SURVEY NOTES APPROVED MAY 1882. NO OTHER GOVERNMENT CORNER MONUMENTS WERE RECOVERED FOR SECTION 31. THE NEAREST GOVERNMENT CORNER LOCATED ON THE SOUTH LINE OF TOWNSHIP 12S, 37E WAS THE SOUTH 1/4 OF SECTION 36, HOLDING THE SOUTHWEST CORNER OF SECTION 31 AND THE SOUTH 1/4 OF SECTION 36, THE SOUTHEAST CORNER OF SECTION OF SECTION 31 WAS ESTABLISHED BY SINGLE PROPORTION.

THE NORTHEAST CORNER OF SECTION 31 WAS ESTABLISHED BY DOUBLE PROPORTION. THE FENCE CORNER AT THE NORTHEAST CORNER OF SECTION 34 AND THE 2-1/2 INCH ALUMINUM DISK AT THE NORTHWEST CORNER OF SECTION 31 WERE HELD IN THE EAST-WEST DIRECTION, AND THE 14"x12"x6" STONE WITH 5 NOTCHES ON THE EAST FACE AND 2 NOTCHES ON THE SOUTH FACE FOUND AT THE NORTHEAST CORNER OF SECTION 30, AS WELL AS THE CALCULATED SOUTHEAST CORNER OF SECTION 34 WERE HELD IN THE NORTH-SOUTH DIRECTION TO DOUBLE PROPORTION THE NORTHEAST CORNER OF SECTION 31.

THE POSITION OF THE SOUTH 1/4 CORNER, WEST 1/4 CORNER, AND THE EAST 1/4 OF SECTION 31 WERE ESTABLISHED BY SINGLE PROPORTION. THE GOVERNMENT LOTS WERE ALSO ESTABLISHED BY SINGLE PROPORTION. THE WEST 1/4 CORNER OF SECTION 31, SOUTHWEST CORNER OF SECTION 31, AND THE NORTHEAST CORNER OF SECTION 30, T12S, R37E, WM WERE REPLACED UNDER THE DIRECTION OF THE BAKER COUNTY SURVEYOR.

JOHN DAY HIGHWAY (US HWY 26) (FORMER HIGHWAY LOCATION)

TO RESOLVE THE EASTERLY BOUNDARY OF SAID STOCK PILE SITE, THE RECORD SHAPE OF THE CENTERLINE ALIGNMENT SHOWN IN ODOT DRG. NO. 2B-23-19 WAS CREATED AND POSITIONED BY HOLDING RECORD STATION OF 1345+54 A RECORD DISTANCE OF 2479 FEET FROM THE SOUTHWEST CORNER OF SECTION 31, T12S, R37E, W.M., AND ROTATING THE ALIGNMENT TO HOLD THE RECORD ANGLE OF 107°02' FROM SAID CENTERLINE ALIGNMENT TO THE SOUTH LINE OF SECTION 31, T12S, R37E, W.M. THE RESULTING POSITION OF SAID CENTERLINE ALIGNMENT FIT VERY WELL WITH THE CENTER OF EXISTING BRIDGE CROSSING THE SOUTH FORK OF THE BURNT RIVER AND WITH PORTIONS OF THE OLD HIGHWAY LOCATION. THE EASTERLY LINE OF SAID STOCK PILE SITE WAS ESTABLISHED BY OFFSETTING SAID CENTERLINE ALIGNMENT RECORD WIDTH OF 30.00 FEET AS SHOWN ON SAID ODOT DRG. 2B-23-19.

JOHN DAY HIGHWAY (US HWY 26) (RELOCATED HIGHWAY) "J" ALIGNMENT

THE LOCATION OF THE CENTERLINE AND RIGHT OF WAY FOR THE RELOCATED PORTION OF THE JOHN DAY HIGHWAY (US 26) WAS ESTABLISHED BY RECREATING THE RECORD SHAPE OF THE ALIGNMENT AS SHOWN ON ODOT DRG. NO. 6B-34-4 AND POSITIONED BY HOLDING 35.00 FEET FROM BOTH THE MONUMENTS FOUND AT STATION 1301+93.31 PS (POINTS 400 & 401). THE MONUMENTS FOUND AT POINTS 400-403 WERE IRON RODS WITH 4X4 WOODEN POSTS SET BY THE OREGON DEPARTMENT OF TRANSPORTATION, HOWEVER, WE WERE NOT ABLE TO RECOVER THE FIELD NOTES FOR SAID MONUMENTS TO VERIFY THE OFFSET FROM CENTERLINE. THE WOODEN POST LEFT OF CENTERLINE AT STATION "J"1291+08.21 PT. HAD THE STATION STILL REMAINING ON THE POST SO WE WERE ABLE TO VERIFY THAT THESE WERE SET TO MONUMENT THE RELOCATED HIGHWAY LOCATION. THE RECORD SHAPE OF THE ALIGNMENT WAS THEN ROTATED ABOUT A BASE POINT MIDWAY BETWEEN SAID MONUMENTS AT POINTS 401 & 402, TO SPLIT THE CENTER OF THE EXISTING BRIDGE CROSSING THE SOUTH FORK BURNT RIVER. THE RESULTING LOCATION OF THE ALIGNMENT FIT WITH THE ODOT MONUMENTS SET AT POINTS 402 & 403 AND WITH THE EXISTING PAVEMENT OF THE JOHN DAY HIGHWAY. STATIONING WAS HELD MIDWAY BETWEEN THE MONUMENTS FOUND AT STATION "J"1301+93.31 PS. THE RIGHT OF WAY WIDTHS WERE ESTABLISHED AS SHOWN ON SAID ODOT DRG. NO. 6B-34-4. IT WAS DISCOVERED THAT A MATHEMATICAL ERROR EXISTS IN THE SPIRAL CURVE INFORMATION GIVEN FOR THE SPIRAL CURVE BEGINNING AT RECORD STATION 1123+88.11 PS. THE SPIRAL LENGTHS WERE HELD AND NOT THE SPIRAL ANGLES TO RESOLVE THE SPIRAL CURVE. THE TANGENT BEARINGS, RECORD DELTA, AND THE RECORD DEGREE OF CURVE WERE ALSO HELD. THIS RESULTED IN THE STATIONING OF THE POINT OF CHANGE FROM CURVE TO SPIRAL (PCS) AND THE POINT OF TANGENCY OF THE CURVE TO MISS RECORD STATIONING BY 0.66 FEET.

ODOT STOCK PILE SITE AND QUARRY LEASE BOUNDARY

THE RECORD SHAPE OF SAID STOCK PILE SITE WAS RECREATED AS DESCRIBED IN SAID DEED AND POSITIONED BY HOLDING THE POINT OF CURVATURE AT STATION 1318+59.00, 30.00 FEET RIGHT OF CENTERLINE AND ORIENTATED BY ROTATING THE RECORD SHAPE TO THE WESTERLY RIGHT OF LINE AS SHOWN IN SAID ODOT DRG NO. 2B-23-19 AND IR-2-1439. IT WAS DISCOVERED THAT THE DISTANCES DESCRIBED IN THE DEED RECORDED IN BOOK 140, PAGE 522 FOR SAID QUARRY TRACT DID NOT MATCH WITH THE MONUMENTS CALLED FOR IN THE DEED, THEREFORE, THE EAST-WEST QUARTER SECTION LINE AS CALLED FOR IN THE DEED WAS HELD FOR THE NORTHERLY BOUNDARY AND THE EAST LINE OF GOVERNMENT LOT 3 WAS HELD FOR THE WESTERLY BOUNDARY OF SAID STOCK PILE SITE AS DESCRIBED IN SAID DEED. THE SOUTHERLY LINE WAS EXTENDED TO INTERSECT WITH THE EAST LINE OF GOVERNMENT LOT 3.

THE QUARRY LEASE PARCEL IS AN AGREEMENT FROM THE UNITED STATES DEPARTMENT OF THE INTERIOR THROUGH THE BUREAU OF LAND MANAGEMENT TO THE OREGON DEPARTMENT OF TRANSPORTATION AND IS DESCRIBED IN DECISION 000930 AS BEING THE EAST HALF OF GOVERNMENT LOT 3, SECTION 31, T12S, R37E, W.M. THE BOUNDARIES OF THE QUARRY LEASE PARCEL WERE ESTABLISHED BY PLACING A LINE FROM A POINT MIDWAY ALONG THE NORTH LINE OF GOVERNMENT LOT 3 TO A POINT MIDWAY ALONG THE SOUTH BOUNDARY OF GOVERNMENT LOT 3. THE SOUTH BOUNDARY OF THE QUARRY LEASE AREA WAS MONUMENTED BECAUSE IT ADJOINED PRIVATE LAND OWNERSHIP.

CEMETERY ROAD (COUNTY ROAD NO. 537)

COUNTY ROAD NO. 537 (CEMETERY ROAD) TRAVELS THROUGH BOTH THE STOCK PILE AND THE QUARRY LEASE SITES. THE SURVEY FIELD NOTES FOR COUNTY ROAD NO. 537 (SHOWN AS ROAD NO. 4) DESCRIBED IN SURVEYORS RECORD BOOK 1, PAGE 28, LOCATED IN THE BAKER COUNTY COURTHOUSE STATES THAT THIS ROAD WAS VIEWED, LOCATED, SURVEYED, AND REPORTED JULY 5TH THROUGH 9TH OF 1899. I WAS UNABLE TO PLACE THE RECORD SHAPE OF THE ALIGNMENT AS DESCRIBED IN THE COUNTY ROAD DOCUMENTS, SO I CREATED A BEST-FIT ALIGNMENT OF THE EXISTING EDGE OF GRAVEL.

THE RESOLVED CENTERLINE ALIGNMENT FOR CEMETERY ROAD IS NOT SHOWN ON THIS SURVEY FOR CLARITY AND WAS NOT REQUIRED TO DETERMINE THE LOCATION OF THE STOCK PILE OR QUARRY LEASE BOUNDARY, THEREFORE, ONLY THE RIGHT OF WAY LINES WERE SHOWN. NO RIGHT OF WAY WIDTH WAS STATED IN SAID COUNTY ROAD DOCUMENTS, THEREFORE, BASED UPON THE DATE OF DECLARATION, A STATUTORY WIDTH OF 60.00 FEET WAS USED.

RECOVERED MONUMENT LIST

PT ID	LDP NORTHING	LDP EASTING	DATE	STATION	OFFSET	DESCRIPTION & REFERENCE DOCUMENTS
400	306332.53	8796713.01	03/26/2014	"J"1301+93.29	35.00 RT	FD 3/4" IRON ROD WITH 4"x4" WOOD POST, ODOT DRG. 6B-34-4
401	306386.58	8796757.51	03/26/2014	"J"1301+93.33	35.00 LT	FD 3/4" IRON ROD, ODOT DRG. 6B-34-4
402	307071.85	8795916.50	03/26/2014	"J"1291+08.50	30.17 LT	FD 3/4" IRON ROD WITH 4"x4" WOOD POST MARKED "1291+08.21 PT", ODOT DRG. 6B-34-4
403	307009.85	8795865.55	03/26/2014	"J"1291+08.52	50.09 RT	FD 3/4" IRON ROD, ODOT DRG. 6B-34-4
1000	307829.91	8795721.76	04/23/2013	N/A	N/A	FD 2-1/2" ALUMINUM CAP MARKED AS SHOWN ON SHEET 2, UP 1.0 FEET, SURVEY NO. 12-36-30
1001	302560.84	8795839.90	03/25/2014	N/A	N/A	FD 14"x11"x10" STONE WITH 6 NOTCHES ON 4 SIDES (GLO NOTES FOR CONTRACT NO. 398), REPLACED WITH 3/4" INSIDE DIAMETER X 30" LONG IRON PIPE WITH 2-1/2" BRASS CAP MARKED AS SHOWN ON SHEET 2, SET ON 10/1/2014
1002	307898.72	8798124.51	03/25/2014	N/A	N/A	FD 14"x11"x6" STONE MARKED "1/4" (GLO NOTES FOR CONTRACT NO. 409), REPLACED WITH 5/8"x30" IRON ROD WITH 3-1/4" ALUMINUM DISK MARKED AS SHOWN ON SHEET 2, UP 0.5', SET ON 10/1/2014
1003	313174.44	8800639.79	03/25/2014	N/A	N/A	FD 14"x12"x6" STONE WITH 5 NOTCHES ON EAST FACE AND 2 NOTCHES ON SOUTH FACE (GLO NOTES FOR CONTRACT NO. 409) REPLACED WITH 5/8"x30" IRON ROD WITH 3-1/4" ALUMINUM CAP MARKED AS SHOWN ON SHEET 2, FLUSH, SET ON 10/1/2014
1004	308313.02	8816572.98	03/25/2014	N/A	N/A	FD FENCE CORNER, HELD FOR NORTHEAST CORNER OF SECTION 34, T12S, R37E, WM
1005	303293.53	8824637.63	03/25/2014	N/A	N/A	FD 2-1/2" BRASS CAP MARKED AS SHOWN ON SHEET 2, SURVEY NO. 12-37-15
L385	304053.32	8805236.72	02/19/2014	N/A	N/A	FD 3" BRASS CAP SET IN CONCRETE, DESIGNATION L 385, PID 0C0087, NGS DATASHEET

FD=FOUND
 GLO=GENERAL LAND OFFICE
 ODOT=OREGON DEPARTMENT OF TRANSPORTATION
 NGS=NATIONAL GEODETIC SURVEY

SET/CALCULATED MONUMENT LIST

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
5000	305195.38	8795780.83	N/A	N/A	09/30/2014	SET 5/8"x30" IRON ROD WITH 3-1/4" ALUMINUM CAP MARKED AS SHOWN ON SHEET 2, UP 0.2'
5001	305220.81	8796893.07	N/A	N/A	09/29/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED AS SHOWN ON SHEET 3, UP 0.1'
5002	305228.60	8797233.51	1316+90.23	30.00' RT	09/29/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED "ODOT 2014", DOWN 0.5'
5003	305059.85	8797233.78	1318+59.00	30.00' RT	N/A	CALCULATED POINT - NOTHING FOUND OR SET
5004	304970.62	8797241.83	1319+43.40	30.00' RT	09/30/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED "ODOT 2014", UP 0.1'
5005	304966.00	8796899.57	N/A	N/A	09/30/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED "ODOT 2014", UP 0.1'
5006	303905.08	8796926.62	N/A	N/A	09/30/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED AS SHOWN ON SHEET 2, FLUSH
5007	303891.59	8796368.49	N/A	N/A	09/30/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED "ODOT 2014" FLUSH
5008	305741.08	8796960.18	1311+77.76	30.00' RT	10/02/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED "ODOT 2014" FLUSH
5009	304714.30	8797232.70	1322+16.92	30.00' RT	10/02/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED "ODOT 2014" UP 0.1'
5010	304438.54	8797370.35	1325+94.22	30.00' RT	10/02/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED "ODOT 2014" FLUSH
5011	304344.44	8797627.87	1327+18.51	30.00' RT	10/02/2014	SET 5/8"x30" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED "ODOT 2014" FLUSH
7000	302589.35	8797698.33	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7001	302622.88	8798278.15	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7002	302689.94	8800914.10	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7003	303878.11	8795810.37	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7004	305311.07	8800839.65	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7005	305250.74	8798201.62	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7006	305208.09	8796336.95	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7007	306512.64	8795751.29	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7008	306541.17	8796859.39	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7009	307861.52	8796825.72	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET
7010	307932.19	8800765.20	N/A	N/A	N/A	CALCULATED POINT - NOTHING FOUND OR SET

REGISTERED PROFESSIONAL LAND SURVEYOR

Bret N. Elthorp
 OREGON
 JAN. 14, 2003
 BRET N. ELTHORP
 *63148

Dec. 19, 2014
 BAKER COUNTY SURVEYOR
 SURVEY NO. 12-37-86

RENEWS: DEC. 31, 2015
 SIGNED: 12/18/14

OREGON DEPARTMENT OF TRANSPORTATION
 MAP OF SURVEY
 SECTION 31, T12S, R37E, W.M.
 BAKER COUNTY
 MATERIAL SOURCE AND STOCKPILE

ODOT REGION 5
 3012 ISLAND AVENUE
 LA GRANDE, OR 97850

OCTOBER, 2014
 BEARINGS: GRID
 SHEET 1 OF 3