

RECORD OF SURVEY
 A SURVEY OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 2 NORTH, RANGE 33 EAST OF THE WILLAMETTE MERIDIAN, ALSO KNOWN AS UMATILLA INDIAN RESERVATION ALLOTMENT 505A.

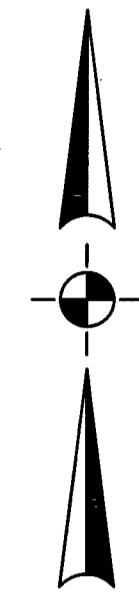
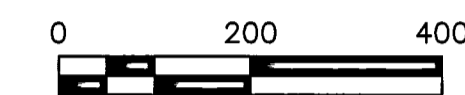
BASIS OF BEARINGS

OREGON COORDINATE SYSTEM GRID BEARING OF N 89°33'07" E ALONG THE SOUTH LINE OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 2 NORTH, RANGE 33 EAST OF THE WILLAMETTE MERIDIAN, UMATILLA COUNTY, OREGON.

TO ACHIEVE GEODETIC BEARINGS APPLY A CLOCKWISE ROTATION OF 01°16'50" AT THE CENTER QUARTER CORNER OF SECTION 9.

DISTANCES SHOWN ARE GROUND DISTANCES THE GROUND TO GRID COMBINED SCALE FACTOR FOR THIS SURVEY IS 0.9998785.

BEARINGS WERE DETERMINED BY OCCUPYING NATIONAL GEODETIC SURVEY MONUMENT "MISSION" PID:R030358. THIS MONUMENT BEARS S35°02'35"E 4856.24' FROM THE CENTER 1/4 CORNER OF SECTION 9.



ORIGINAL MAIN TRACK

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C3	633.46'	1432.69'	25°20'00"	S 80°59'20" W	628.32'
LINE	BEARING DISTANCE				
L2	S 68°19'20" W 451.70'				
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C4	725.10'	1719.12'	24°10'00"	S 80°24'20" W	719.74'

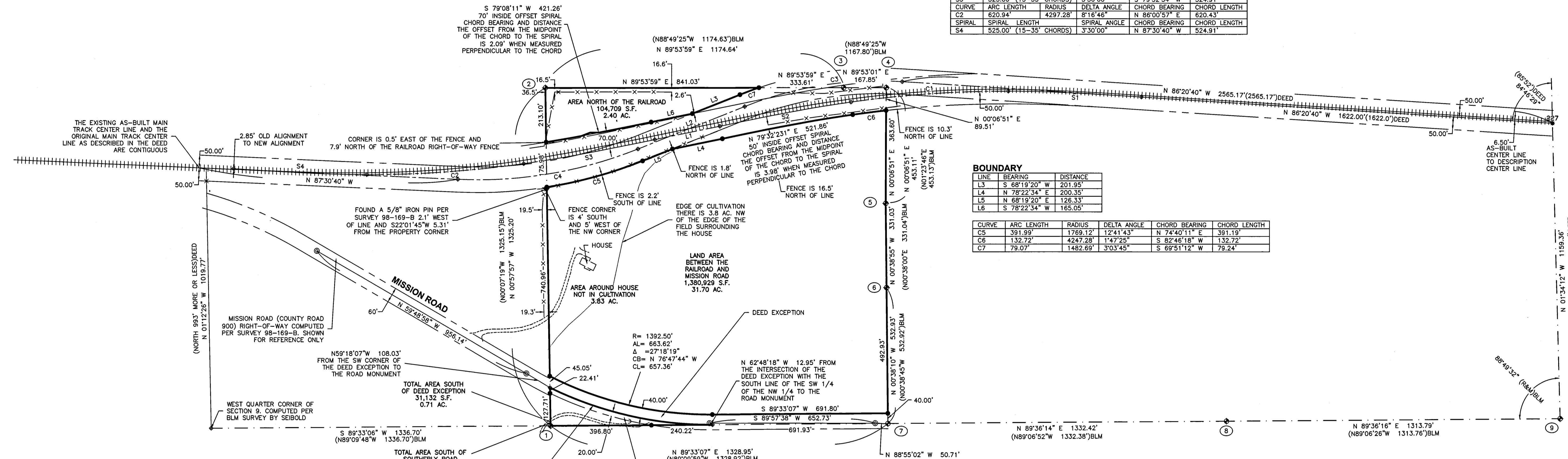
RELOCATED MAIN TRACK

SPIRAL	SPIRAL LENGTH	SPIRAL ANGLE	CHORD BEARING	CHORD LENGTH	
S1	525.00' (15-35' CHORDS)	3°30'00"	N 87°30'40" W	524.91'	
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	620.94'	4297.28'	8°16'46"	S 86°00'57" W	620.43'
SPIRAL	SPIRAL LENGTH	SPIRAL ANGLE	CHORD BEARING	CHORD LENGTH	
S2	525.00' (15-35' CHORDS)	3°30'00"	N 79°32'34" W	524.91'	
LINE	BEARING DISTANCE				
L1	S 78°22'34" W 261.34'				
SPIRAL	SPIRAL LENGTH	SPIRAL ANGLE	CHORD BEARING	CHORD LENGTH	
S3	525.00' (15-35' CHORDS)	3°30'00"	S 79°32'34" W	524.91'	
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C2	620.94'	4297.28'	8°16'46"	N 86°00'57" E	620.43'
SPIRAL	SPIRAL LENGTH	SPIRAL ANGLE	CHORD BEARING	CHORD LENGTH	
S4	525.00' (15-35' CHORDS)	3°30'00"	N 87°30'40" W	524.91'	

BOUNDARY

LINE	BEARING	DISTANCE
L3	S 68°19'20" W	201.93'
L4	N 78°22'34" E	200.35'
L5	N 68°19'20" E	126.33'
L6	S 78°22'34" W	165.05'

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C5	391.99'	1769.12'	12°41'43"	N 74°40'11" E	391.19'
C6	132.72'	4247.28'	1°47'25"	S 82°46'18" W	132.72'
C7	79.07'	1482.69'	3°03'45"	S 69°51'12" W	79.24'



NARRATIVE

THIS SURVEY WAS DONE AT THE REQUEST OF THE CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION (CTUIR) TO SURVEY AND MARK THE BOUNDARIES OF ALLOTMENT 505A, INCLUDING THE EXCEPTION FOR MISSION ROAD ON THE SW CORNER AND THE EXCEPTION FOR THE UNION PACIFIC RAILROAD ON THE NORTHWEST CORNER. THE SURVEY WAS DONE USING DUAL FREQUENCY RTK GEODETIC GPS RECEIVERS HAVING STANDARD ERRORS OF 10 MM + 1 PPM RMS IN JULY AND AUGUST 2017.

THE PERIMETER OF THE SE 1/4 OF THE NW 1/4 OF SECTION 9, T2N, R33E WAS SURVEYED AND MONUMENTED IN 2003 AND 2004 BY BLM SURVEYOR BRYAN S. SEIBOLD. THE PLAT WAS APPROVED JUNE 1, 2005. THE BLM SURVEY WAS A DEPENDENT RESURVEY AND SUBDIVISION SURVEY OF SECTIONS 4 AND 9 AND DID NOT ADDRESS THE RAILROAD OR COUNTY ROAD RIGHTS-OF-WAY THAT ARE EXCEPTED FROM 505A.

IN 1988 WILLIAM WELLS PREPARED A SURVEY FOR CTUIR OF THEIR PROPERTY LYING SOUTH OF THE RAILROAD AND NORTH OF MISSION ROAD THAT IS ADJACENT TO THE WEST LINE OF ALLOTMENT 505A. THE NW CORNER OF THE SE 1/4 OF THE NW 1/4 OF SECTION 9 WAS NOTED AS DISTURBED AND OUT OF POSITION. HE THEREFORE COMPUTED THE POSITION PER COUNTY SURVEY H-121-B. THIS COMPUTED POSITION FALLS APPROXIMATELY 3 FEET WEST OF THE CORNER POSITION ESTABLISHED BY BLM SURVEYOR SEIBOLD. I HAVE HELD THE BLM CORNER AND FOUND THE MONUMENT SET BY WELL FOR THE NW CORNER OF THE CTUIR PROPERTY TO BE 2.1 FEET WEST OF THE LINE.

IN 2007 DWIGHT BARTLESON PREPARED A RECORD OF SURVEY FOR THE BUREAU OF INDIAN AFFAIRS FOR MISSION HIGHWAY (UIR 900). IN HIS NARRATIVE MR. BARTLESON STATES THE THE PURPOSE OF THE SURVEY WAS TO MONUMENT THE DEED CENTERLINE OF MISSION HIGHWAY. I HAVE FOUND AND NOTED FOUR OF THE MONUMENT FROM HIS SURVEY. HOWEVER, THE LOCATION OF THE FOUND MONUMENTS IN THE MISSION HIGHWAY THAT RUNS THROUGH ALLOTMENT 505A DO NOT AGREE WITH THE DESCRIPTION OF THE EXCEPTION. ALSO, THE EXCEPTION IS 40 FEET IN WIDTH AND UMATILLA COUNTY ROAD RECORDS AND THE PHYSICAL LOCATION OF THE ROAD IMPROVEMENTS INDICATE THAT THE ROAD RIGHT-OF-WAY THROUGH ALLOTMENT 505A IS 60 FEET IN WIDTH. FOR THIS REASON I HAVE SHOWN AN ADDITIONAL 20 FEET OF ROAD EASEMENT ADJACENT TO THE SOUTHERLY SIDE OF THE 40 FOOT EXCEPTION.

FOR THE RAILROAD EXCEPTION I HAVE HELD THE RECORD DEED DISTANCE NORTH OF THE EAST QUARTER CORNER OF SECTION 9, WHICH WAS COMPUTED BASED ON THE 2005 BLM SURVEY. AS THE STARTING POINT FOR BOTH THE ORIGINAL MAIN TRACK AND RELOCATED MAIN TRACK CENTERLINE, THIS LOCATION APPEARS TO FALL APPROXIMATELY 3 FEET WEST OF THE CENTER OF THE CURRENT TRACK LOCATION. THE DEED ALSO NOTES A DEFLECTION ANGLE FROM THE EAST LINE OF THE SECTION OF 85°52'. HOWEVER THIS ANGLE DOES NOT AGREE WITH THE CURRENT LOCATION OF THE RAILROAD IMPROVEMENTS. I FOUND THAT A DEFLECTION ANGLE OF 84°48'29" AGREES WITH THE TANGENT SECTION OF THE TRACK LYING BOTH EAST AND WEST OF ALLOTMENT 505A. BOTH CENTERLINES WERE ESTABLISHED FROM THE BEGINNING POINT HOLDING RECORD DEED CALLS. THE ORIGINAL MAIN TRACK CENTERLINE COINCIDES WITH THE EXISTING TRACK TANGENT WEST OF THE SURVEYED PROPERTY. THE RELOCATED TRACK CENTERLINE IS 2.85 FEET NORTH OF THE ORIGINAL TRACK CENTERLINE WHEN IT GET TO THE END OF THE LAST SPIRAL ON THE WEST END. BOTH DEEDS INDICATE THAT THE CENTERLINES ARE APPROXIMATELY 993 FEET NORTH OF THE WEST QUARTER CORNER OF SECTION 9. I FOUND THEM TO BE CLOSER TO 1020 FEET NORTH OF THE COMPUTED POSITION OF THE WEST QUARTER CORNER OF SECTION 9.

MONUMENT DESCRIPTION NOTES

- CENTER WEST 1/16 CORNER - FOUND A 3" BLM BRASS CAP PER THE 2005 BLM DEPENDENT RESURVEY.
- NW 1/16 - FOUND A 3" BLM BRASS CAP PER THE 2005 BLM DEPENDENT RESURVEY.
- 1/1024 CORNER ON THE NORTH LINE OF THE SE 1/4 OF THE NW 1/4 - FOUND A 3" BLM BRASS CAP PER THE 2005 BLM DEPENDENT RESURVEY.
- CENTER NORTH 1/16 CORNER - FOUND A 3" BLM BRASS CAP PER THE 2005 BLM DEPENDENT RESURVEY.
- AP2 ON THE EAST LINE OF THE SE 1/4 OF THE NW 1/4 - FOUND A 2" ALUMINUM CAP ON A 5/8" IRON REBAR.
- AP1 ON THE EAST LINE OF THE SE 1/4 OF THE NW 1/4 - FOUND A 2" ALUMINUM CAP ON A 5/8" IRON REBAR.
- CENTER 1/4 CORNER - FOUND A 2" BRASS CAP BY LS 1383 IN A MONUMENT CASE IN MISSION ROAD AS NOTED ON THE 2005 BLM DEPENDENT RESURVEY.
- CENTER EAST 1/16 CORNER - FOUND A 2 1/2" BRASS CAP IN A MONUMENT CASE IN MISSION ROAD AS SHOWN ON THE 2005 BLM DEPENDENT RESURVEY.
- EAST QUARTER CORNER SECTION 9 - FOUND A 2 1/2" BRASS CAP IN A MONUMENT CASE AS NOTED ON THE 2005 BLM DEPENDENT RESURVEY.

LEGEND

- — — — — PROPERTY LINE
- — — — — SECTION OR SECTION SUBDIVISION LINE
- — — — — CENTER LINE
- — — — — RIGHT-OF-WAY LINE
- — — — — MONUMENT LINE
- — — — — EXISTING FENCE
- — — — — AS-BUILT RAILROAD CENTER LINE
- — — — — EDGE OF GRAVEL
- ⊙ FOUND A 5/8" IRON PIN WITH A YELLOW PLASTIC CAP INSCRIBED "R2166 WA21388" PER SURVEY 07-285-C.
- ◆ FOUND SURVEY MONUMENT AS NOTED
- SET A 5/8" IRON REBAR WITH A YELLOW PLASTIC CAP INSCRIBED "PBS 02820"
- ⊙ COMPUTED POSITION NOTHING FOUND OR SET.
- ⊙ SEE CORRESPONDING NOTE FOR MONUMENT DESCRIPTION.
- (XOXOX)BLM RECORD DIMENSION BLM SURVEY BY SEIBOLD APPROVED JUNE 1, 2005.
- (XOXOX)DEED RECORD DIMENSION PER DEED.

REFERENCE DOCUMENTS

- UNITED STATES PATENT DATED 9-01-1977 RECORDED IN REEL 36 AT PAGE 1674
- DEED TO RAILROAD DATED 7-3-1978 RECORDED IN REEL 36 AT PAGE 1677.
- JUDGMENT FOR EMINENT DOMAIN FILED 8-21-1979 IN REEL 66 AT PAGE 740
- UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF INDIAN AFFAIRS TITLE STATUS REPORT DATED 4-19-2017
- TITLE REPORT PREPARED BY PIONEER TITLE COMPANY, ORDER NUMBER 96504 DATED 4-21-2017.
- SURVEY BY WELL COUNTY SURVEY NUMBER 98-169-B
- DEPENDENT RESURVEY BY BUREAU OF LAND MANAGEMENT SURVEYOR SEIBOLD DATED 6-1-2005.
- SURVEY BY BARTLESON COUNTY SURVEY NUMBER 07-285-C.

REGISTERED PROFESSIONAL LAND SURVEYOR

Greg E. Flowers

RECEIVED BY

Umatilla County Surveyor
 Date: 9/12/17
 Rec'd By: CT
 No.: 17-109-C

OREGON
 JUNE 30, 1997
 GREG E. FLOWERS
 02820LS
 RENEWS 12/31/17
 9/23/2017

PBS Engineering and Environmental Inc.
 5 N Coville St, Ste 200
 Walla Walla, WA 99362
 509.856.3026
 pbsusa.com

CLIENT: CTUIR PROJECT NO.: 67050
 SURVEYOR: GREG E. FLOWERS DATE: 09/01/2017
 CALC BY: GEF DRAWN BY: GEF SCALE: 1" = 200'
 SECTION: 9 TOWNSHIP: 2 NORTH RANGE: 33 EAST
 CITY: MISSION COUNTY: UMATILLA SHEET 1 OF 1