

RECORD OF SURVEY

NARRATIVE:

THIS SURVEY WAS MADE AT THE REQUEST OF THE CITY OF PENDLETON TO LOCATE THE BOUNDARY OF THE PENDLETON WASTEWATER PLANT SITE. THE SURVEY WAS MADE BY A LEICA 399 GEODETIC GPS SYSTEM OPERATED IN STATIC AND REAL TIME KINEMATIC MODES. IN AREAS WHERE GPS SIGNAL WAS OBSCURED BY VEGETATION, A SOKKIA SET 38 ONE SECOND TOTAL STATION WAS USED FOR MEASUREMENT.

IN THE LATE 1940'S AND EARLY 1950'S THERE WERE SEVERAL SURVEYS MADE IN THE AREA AND INFORMATION SHOWN ON THESE SURVEYS WAS USED TO THE EXTENT POSSIBLE. FOLLOWING IS A DISCUSSION OF HOW THE CITY TRACT BOUNDARY WAS DETERMINED ON THIS SURVEY.

THE NORTHEAST AND NORTH 1/4 CORNERS OF SECTION 8 ARE IN PLACE AND MONUMENTED AND WERE USED AS SHOWN. TO LOCATE THE NORTH-SOUTH CENTERLINE OF SECTION 8, I HELD A 1" O.D. IRON PIPE OF UNKNOWN ORIGIN LOCATED NEAR THE SOUTH RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD TRACKS AND EXTENDED LINE SOUTHERLY FROM THIS MONUMENT TO THE DISTANCE OF 2626.68 FEET FROM THE NORTH 1/4 CORNER OF SECTION 8 AS SHOWN ON THE ROBBETT SURVEY NO. Q-208-B. A THOROUGH SEARCH OF THE CORNER AREA WAS MADE BUT NO MONUMENT WAS FOUND. THIS POINT IS HELD AS THE CENTER 1/4 CORNER FOR THIS SURVEY.

THE PORTION WEST LINE OF THE MCKAY DLC NEEDED FOR THIS SURVEY WAS DETERMINED BY HOLDING THE FOUND 3/4" I.D. IRON PIPE FROM SURVEY NO. Q-208-C, NEAR THE WEST END OF COUNTY ROAD NO. 506. THE RECONSTRUCTED LOCATION OF THE "PROPERTY CORNER 1/2" IRON PIPE" AND "FENCE CORNER" TIED AND REFERENCED ON THE COE LEVEE AND REVETMENT MAPS DATED 1959, AND THE CALCULATED LOCATION OF THE NORTHWEST CORNER OF THE MCKAY DLC, POSITIONED AS NOTED ON THIS RECORD OF SURVEY. THE REESTABLISHED LOCATION OF THE DLC BOUNDARY FITS REMNANTS OF EXISTING OLD FENCES SOUTH OF THE FREEWAY RIGHT-OF-WAY VERY WELL.

THE NORTHEASTERLY BOUNDARY OF THE CITY PROPERTY IS THE SOUTHERLY RIGHT-OF-WAY LINE OF INTERSTATE 84. EXISTING RIGHT-OF-WAY MONUMENTS WERE FOUND AND HELD FOR THIS PART OF THE BOUNDARY AS SHOWN.

THE NORTHWESTERLY BOUNDARY OF THE CITY PROPERTY IS THE SOUTHERLY BOUNDARY OF THAT PROPERTY CONVEYED BY THE CITY TO ORVILLE SMITH, ET AL., BY DEED RECORDED AT BOOK 196, PAGE 081, DEED RECORDS, IN 1951. THIS COMMON PROPERTY LINE WAS SURVEYED BY W.O. HARRIS IN 1967 IN SURVEY NO. D-5-B. IN SURVEYING THE PROPERTY, HARRIS USED THE RAILROAD RIGHT-OF-WAY LINE 70 FEET SOUTH OF THE LOCATION RATHER THAN THE RIGHT-OF-WAY LINE 50 FEET SOUTH OF THE MAIN LINE TRACK AS INTENDED BY THE DEED CONVEYANCE. THIS RESULTS IN AN OVERLAP OF THE HARRIS SURVEY, (AND SUBSEQUENT DEEDS TO INDUSTRIAL PROPERTY TO THE NORTH), ONTO THE CITY PROPERTY. THE LOCATION OF OVERLAP IS SHOWN.

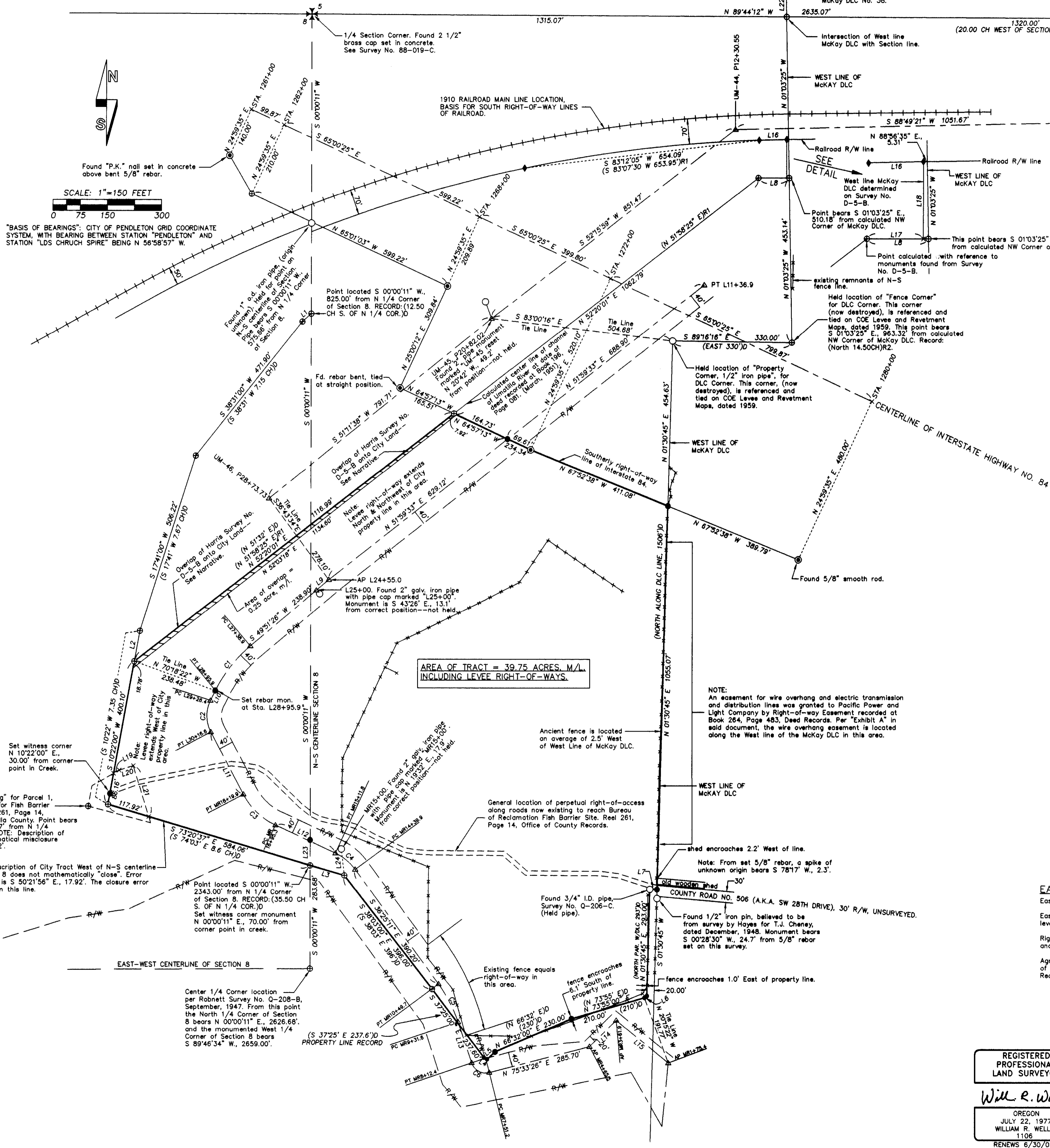
THE WESTERLY PORTION OF THE CITY TRACT, WEST OF THE NORTH-SOUTH CENTERLINE OF SECTION 8, CLOSURE ON A POINT OF THE NORTH-SOUTH CENTERLINE OF SECTION 8 LOCATED 2343.0 FEET SOUTH OF THE NORTH 1/4 CORNER OF SECTION 8. IN CONSTRUCTING THIS PORTION OF THE DESCRIPTION, I FIND A MATHEMATICAL MIS-CLOSURE OF S 50°21'56" E, 17.92'. THE DEED CALLS ALONG THE BOUNDARY IN THIS AREA ARE ALONG THE FORMER CENTERLINE LOCATIONS OF THE UMATILLA RIVER AND MCKAY CREEK, WHICH ARE NOW IMPOSSIBLE TO RECONSTRUCT DUE TO LEVEE AND REVETMENT IMPROVEMENTS. I PLACE THE TOTAL ERROR OF CLOSURE IN THE SOUTH LINE OF THE CITY TRACT, WEST OF THE NORTH-SOUTH CENTERLINE OF SECTION 8, IN CONFORMANCE WITH ERROR OF CLOSURE PLACEMENT ON RECORD SURVEY NO. S Q-206-C AND Q-208-B.

EAST OF THE NORTH-SOUTH CENTERLINE OF SECTION 8, THE SOUTH BOUNDARY OF THE CITY TRACT AND THAT PORTION OF THE EAST BOUNDARY OF THE CITY TRACT SOUTH OF COUNTY ROAD NO. 506 ARE SENIOR TO THE LANDS OF WRIGHTSON TO THE SOUTH AND EAST. EVIDENCED BY THE WRIGHTSON DEED DESCRIPTION CALLS TO THE DEED OF FRED PRICE, RECORDED AT BOOK 124, PAGE 525, DEED RECORDS. THE PRICE DEED RECORDED AT BOOK 124, PAGE 525, IS IDENTICAL TO THE DEED CALLS OF THE ORIGINAL CITY DEED RECORDED AT BOOK 188, PAGE 200, DEED RECORDS. IN SURVEYING THIS SEGMENT OF THE CITY TRACT BOUNDARY, FROM A POINT ON THE NORTH-SOUTH CENTERLINE OF SECTION 8, 2343.0 FEET SOUTH OF THE NORTH 1/4 CORNER OF SECTION 8, TO THE HELD 3/4" I.D. IRON PIPE NEAR THE WEST END OF COUNTY ROAD NO. 506, I PLACED THE MIS-CLOSURE IN THE COURSE CLOSING AT A POINT 20 FEET WEST OF THE WEST LINE OF THE MCKAY DLC, THIS BEING THE ONLY "MORE OR LESS" CALL IN THIS SEGMENT OF THE DESCRIPTION.

TO LOCATE THE LEVEE RIGHT-OF-WAY LINES WITHIN THE CITY TRACT, WE MADE AN EXTENSIVE SEARCH AND SURVEY OF THE CONTROL LINE SHOWN ON COE LEVEE AND REVETMENT MAPS DATED 1959. WE FOUND 6 "MONUMENTS" BETWEEN THE ESTABLISHED NORTHEAST CORNER OF SECTION 8 AND THE BRIDGE ON THE PILOT ROCK BRANCH RAILROAD LINE, WEST OF REITH. ALL MONUMENTS FOUND ARE DISPLACED AND OUT OF POSITION EXCEPT FOR THE NORTHEAST CORNER OF SECTION 8 AND A NAIL FOUND IN THE RAILROAD BRIDGE OF THE PILOT ROCK BRANCH RAILROAD LINE AT COE STATION 1+79.38. I CALCULATED THE RECORD LEVEE CONTROL LINE FROM THE NORTHEAST CORNER OF SECTION 8 TO STATION 1+79.37 ON THE PILOT ROCK BRANCH RAILROAD BRIDGE AND FIND THE RECORD BEARING AND DISTANCE TO BE S 63°02'16" W, 12788.91'. I ROTATE THE RECORD COE BEARINGS BETWEEN THESE TWO POINTS TO MATCH OUR BEARING BASE AND SHOW THE LEVEE CONTROL LINES ON THIS SURVEY BASED ON THAT ANGULAR ROTATION, WITHOUT ANY LINEAR ADJUSTMENT. MIS-CLOSURES TO EXISTING "OUT OF PLACE" MONUMENTS IN THE SURVEY AREA ARE NOTED.

REFERENCE SURVEYS:

- 1864 SURVEY OF MCKAY DONATION LAND CLAIM NO. 38, BY D. CHAPLIN, UNDER SPECIAL INSTRUCTIONS DATED OCT. 6, 1864.
- 1887 SURVEYS OF UMATILLA INDIAN RESERVATION BOUNDARIES AND SECTIONAL SUBDIVISION LINES BY CURRIN AND NOLAN, UNDER SPECIAL INSTRUCTIONS DATED MAY 4, 1887.
- 1894 SURVEY BY JOHN KIMBRELL OF LANDS OF PAT KINE, RECORDED AT RECORD OF PRIVATE SURVEYS BOOK 1, PAGE 280.
- 1895 SURVEY BY JOHN KIMBRELL OF CLOPTON AND BOYD LAND, RECORDED AT RECORD OF PRIVATE SURVEYS BOOK 1, PAGE 293.
- 1895 SURVEY BY JOHN KIMBRELL FOR THE PURPOSE OF CORRECTING THE RECORD OF SURVEY NO. 71, (BOOK 1, PAGE 293), RECORDED AT RECORD OF PRIVATE SURVEYS BOOK 1, PAGE 327.
- 1946 SURVEY BY CH2M FOR CITY OF PENDLETON, SURVEY NO. Q-206-C.
- 1947 SURVEY BY ROBBETT, SURVEY NO. Q-208-B.
- 1948 SURVEY BY HAYES FOR T.J. CHENEY, OF PARTS OF THE MCKAY DLC.
- 1948 MAP BY CITY OF PENDLETON OF BURGIN PROPERTY, CITY FILE #24-7529.
- 1949 MAP BY CITY OF PENDLETON, OF SEWAGE TREATMENT PLANT SITE, CITY FILE #24-7590.
- 1950 MAP BY CITY OF PENDLETON, SHOWING PENDLETON LUMBER COMPANY OWNERSHIP.
- 1959 MAPS BY THE CORPS OF ENGINEERS, SHOWING LEVEE LAYOUTS AND CERTAIN TIES TO CORNERS, FILE UR-46.
- 1967 SURVEY BY W.O. HARRIS, FOR PENDLETON DEVELOPMENT CORPORATION, SURVEY NO. D-5-B.
- 1975 SURVEY BY WAYNE HARRIS FOR PORT OF UMATILLA, SURVEY NO. J-81-B.
- 1976 SURVEY BY CITY OF PENDLETON OF BARTCH ROAD, SURVEY NO. 89-126-C.
- 1977 SURVEY BY STAEBLER FOR PORT OF UMATILLA, CITY MAP FILE NO. 24-7778.
- OREGON STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY MAPS FOR FREEWAY NOW KNOWN AS INTERSTATE 84.
- 1983 SURVEY BY KRUMBEIN FOR GOLDEN WEST, SURVEY NO. 83-152-B.
- 1993 MAP OF EASEMENTS FOR MCKAY CREEK FISH BARRIER AND 2001 MAPS OF EASEMENT TO BE ACQUIRED FROM WRIGHTSON, OBTAINED FROM THE HERMISTON FIELD OFFICE OF THE BUREAU OF RECLAMATION.



- ### LEGEND
- - SET 5/8" BY 30" REBAR WITH 1 1/4" YELLOW PLASTIC CAP MARKED "OR PLS 1106, WA PLS 17372".
 - - MONUMENT FOUND AS NOTED.
 - ⊗ - CALCULATED POINT ONLY, NOT SET OR FOUND.
 - ⊙ - FOUND OREGON STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY MONUMENT FOR INTERSTATE HIGHWAY NO. 84. THESE ARE 6/8" REBARS WITH 1 1/2" ALUMINUM CAPS UNLESS OTHERWISE NOTED.
 - ✱ - MONUMENTED PUBLIC LAND SURVEY CORNER AS NOTED.
 - ◆ - FOUND 1/2" IRON PINS FROM W.O. HARRIS SURVEY FOR PENDLETON DEVELOPMENT CORPORATION, SURVEY NO. D-5-B, DATED 03/02/67.
 - - EXISTING FENCE LINE. NOT ALL FENCE LINES ARE SHOWN.
 - (XOX)R1 - RECORD DIMENSION FROM SURVEY NO. D-5-B.
 - (XOX)R2 - RECORD DIMENSION FROM GLO SURVEY OF MCKAY DLC, 1864.
 - (XOX)D - RECORD DIMENSION FROM DEED OR EASEMENT DESCRIPTIONS.
 - R/W - INDICATES LINE OF LEVEE EASEMENT/RIGHT-OF-WAY GRANTED TO UMATILLA WATER CONTROL DISTRICT NO. 1, BY EASEMENT DEED RECORDED AT BOOK 257, PAGE 419, DEED RECORDS.
 - - INDICATES LEVEE EASEMENT/RIGHT-OF-WAY CONTROL SURVEY LINE FROM COE PLANS, DATED 12 MARCH, 1959, FILE UR-46.
 - △ - INDICATES CALCULATED POSITION FOR UMATILLA RIVER LEVEE AND REVETMENT PRIORITY CONTROL POINT, PER COE PLANS DATED 12 MARCH, 1959, FILE NO. UR-46.
 - - INDICATES CITY TRACT PROPERTY LINE.

LINE TABLE

NO.	BEARING	DISTANCE	RECORD DIMENSION
L1	S 48°28'00" W	33.00'	(S 48°28' W 0.50 CH/D)
L2	S 10°22'00" W	85.00'	(S 10°22' W 85' M/L)D
L3	S 74°03'00" E	99.00'	(S 74°03' E 99')D
L4	S 62°42'00" E	10.00'	(S 62°42' E 10')D
L5	N 47°28'00" E	30.00'	(N 47°28' E 30')D
L6	S 85°09'40" E	8.28'	(S 85°09'40" E 8.28' M/L)D
L7	S 88°29'15" E	20.00'	(EAST 20')D
L8	S 89°55'25" W	85.45'	
L9	S 49°51'26" W	45.00'	
L10	S 28°18'03" W	30.50'	
L11	S 27°47'34" E	193.60'	
L12	S 65°10'34" E	183.50'	
L13	S 18°42'34" E	119.20'	
L14	N 45°20'26" E	103.60'	
L15	S 50°56'34" E	186.50'	
L16	S 88°38'18" W	76.00'	(S 88°37'35" W 76.17')R1
L17	N 89°55'25" E	78.30'	(WEST 78.30')R1
L18	S 00°08'40" E	106.14'	(S 00°08'40" E 106.14')R1
L19	N 60°24'08" E	17.69'	(N 60°24'08" E)D
L20	N 72°42'48" E	40.56'	(N 72°42'48" E 40.56')D
L21	S 17°17'12" E	145.93'	(S 17°17'12" E)D
L22	N 01°03'25" E	66.00'	(NORTH 1.00CH)R2
L23	N 00°00'11" E	70.00'	
L24	N 08°41'30" W	73.07'	

CURVE TABLE

NO.	DELTA	RADIUS	LENGTH	BEARING	LONG CHORD DISTANCE
C1	23°33'23"	382.00'	157.05'	N 38°04'45" E	155.95'
C2	64°05'37"	95.49'	90.16'	S 00°44'45" E	86.84'
C3	37°23'00"	190.99'	124.61'	S 46°29'04" E	122.42'
C4	28°45'23"	143.24'	71.89'	S 50°48'06" E	71.14'
C5	17°42'37"	381.97'	118.07'	S 27°33'53" E	117.60'
C6	85°44'00"	40.93'	61.24'	S 61°34'22" E	55.69'

EASEMENT NOTES:

Easements and easement/right-of-ways shown or noted on this survey are limited to the following:

Easement Deed granted by the City of Pendleton to Umatilla Water Control District No. 1, for levee easement and right-of-way recorded at Book 257, Page 419, Deed Records.

Right-of-way easement granted to Pacific Power and Light Company, for electric transmission and distribution lines, recorded at Book 264, Page 483, Deed Records.

Agreement for Grant of Easement and Right of Access granted to the United States Department of Interior, Bureau of Reclamation, for Adult Fish Barrier, recorded at Reel 261, Page 14, Deed Records.

REGISTERED PROFESSIONAL LAND SURVEYOR
Will R. Wells
OREGON
JULY 22, 1977
WILLIAM R. WELLS
1106
RENEWS 6/30/02

WILLIAM R. WELLS, PLS
357 N.E. HIGHWAY 11
P.O. BOX 1696
PENDLETON, OREGON
PHONE: (541) 276-6362
DATE: 03/02 DR. BY: DMT/WRW
CK. BY: WRW NO: 02-787

PROJECT: BOUNDARY SURVEY FOR:
CITY OF PENDLETON
SEWAGE TREATMENT PLANT SITE
LOCATED IN THE NE1/4, SE1/4,
AND NW1/4 OF SECTION 8,
T2N., R32E., W.M.,
UMATILLA COUNTY, OREGON.

RECEIVED BY
Umatilla County Surveyor
Date: 4-02
Rec'd By: [Signature]
No: 02-87-C