

NW 1/4 SEC. 30, T. 13 S., R. 32 E., W.M.

24 19
25 30

NW30
FD. 3/2" BLM BR.
CAP ON 2 1/2" DIA.
IRON PIPE
(6/14/2016)
N. 277,980.85
E. 8,616,404.78
(CORNER REMON.
SHEET)

REFERENCES

- [1] ODOT DRAWING 5B-11-10, JUNE, 1937
[2] GRANT COUNTY DEED BOOK 42, PAGE 218, DECEMBER 1, 1937
[3] GRANT COUNTY DEED BOOK 42, PAGE 220, DECEMBER 1, 1937
[4] ODOT DRAWING IR-5-17, JULY 8, 1950
[5] GRANT COUNTY MAP OF SURVEY 553, ROBERT D. BAGETT, MARCH 25, 1979
[6] GRANT COUNTY MAP OF SURVEY 1603, JACK L. WATSON, SEPTEMBER 11, 2001
[7] GRANT COUNTY MAP OF SURVEY 1972, ROBERT ERICH BUTLER, FEBRUARY 27, 2013

NOTES

- ① S. 13°34'47" E. 40.00'
(S. 12°35' E. 40.00') [1], [4]
② N. 80°11'09" E. 142.46'
(N. 81°11' E. 141.9') [3], [4]
③ REFERENCES [1], [2] AND [4]

BASIS OF BEARING GPS SURVEY

S. 89°48'59" E. 13,782.86'
(S. 89°48'58" E. 13,782.86') [7]

DEAN, J
FD. 5/8" IRON
ROD, NO CAP
(6/01/2016)
N. 277,936.65
E. 8,630,187.57
(MOS 1972)

CENTER LINE CURVE DATA
400.00' Spirals
S = 4°00'00"
a = 0.5

RECORD CENTER LINE CURVE DATA
(400.00' Spiral) [1], [2], [3], [4], [5]
(S = 4°00') [1], [2], [3], [4], [5]
(a = 1), [4]
(a = 0.5), [5]

HOLD STATION
131+67.6 P.S.C.
80' LEFT AS
PROPERTY CORNER

STATE OF OREGON,
BY AND THROUGH ITS
STATE HIGHWAY COMMISSION
BOOK 42, PAGE 220
4.22 ACRES ±

HOLD STATION
121+00 P.O.C.
40' LEFT AS
P.O.B.

JOHN DAY HIGHWAY

SURVEY NARRATIVE:

THE PURPOSE OF THIS SURVEY IS TO PERPETUATE EXISTING MONUMENTATION AND RESOLVE THE EXISTING RIGHT OF WAY (RW) ALONG A STRETCH OF THE JOHN DAY HIGHWAY NEAR LITTLE PINE CREEK IN THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 13 SOUTH, RANGE 32 EAST, WM., GRANT COUNTY, OREGON. FOR THIS SURVEY, WE ESTABLISHED A CONTROL NETWORK AND RECOVERED THE POSITION OF HIGHWAY MONUMENTS (MONS) IN THE AREA. THIS SURVEY IS FOR THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT) AS PART OF THE US26: LITTLE PINE CREEK CULVERT PROJECT.

TO RESOLVE THE RW, RECORD CENTER LINE STATION 122+41.9 WAS FIRST ESTABLISHED AT A PRORATED DISTANCE ON LINE BETWEEN MONUMENTS 2016 AND 2017. POINT OF INTERSECTION (P.I.) WAS POSITIONED USING A CALCULATED LENGTH FOR THE EXTERNAL OF SPIRALED CURVE (Es). THIS WAS RETRACED USING A BEST FIT OF MONUMENTS 2014, 2015, 2019 AND 2020 IN CONJUNCTION WITH THE RECORD 3°30' DEGREE OF CURVE, 500' SPIRALS, AND AN SPIRAL ANGLE OF 8°45' FROM ODOT DRAWING 5B-11-10.

THE BASIS OF BEARING WAS ESTABLISHED BY USING GPS, AND THE ONLINE POSITIONING USER SERVICE (OPUS) TO OBTAIN A POSITION FOR POINT DEAN, J WHICH BEARS S. 89°48'59" E. 13,782.86' FROM THE NORTHWEST CORNER OF SECTION 30. THIS SURVEY UTILIZES A LOCAL DATUM PLANE (LDP) WHICH IS RELATIVE TO THE OREGON COORDINATE SYSTEM (OCS) OF 1983 (CORS96, EPOCH 2002), NORTH ZONE, WITH RESPECT TO THE LOCAL LATITUDE AND GROUND ELEVATION. THE LDP COORDINATES DEFINE TRUE GROUND DISTANCES. TO CONVERT THE LDP COORDINATES, FOR THE CONTROL POINTS, TO THE OREGON COORDINATE SYSTEM OF 1983 (CORS96, EPOCH 2002), NORTH ZONE, MULTIPLY THE LDP COORDINATES BY 0.99982073.

LEGEND

- () RECORD DATA PER
REFERENCE AS NOTED
○ FOUND MONUMENT
NOTED IN TABLE
☆ GPS STATION
— EDGE OF PAVEMENT
— RIGHT-OF-WAY
— PROPERTY LINE
-X- FENCE

CENTER LINE CURVE DATA
3°30'00" C.R.
R = 1637.02'
TA = 19°28'10"
TS = 531.74'
2 - 500.00' SPIRALS
S = 8°45'00"
a = 0.7

RECORD CENTER LINE CURVE DATA
(3°30' C.R.) [1], [4], [5]
(R = 1637.1') [1], [5]
(TA = 19°28.5') [2]
(TS = 531.8') [1], [4], [5]
(2 - 500.00' Spirals) [1], [4]
(S = 8°45') [4], [5]
(a = 0.7) [4], [5]
(L = 56.5') [2]
(R = 1637.1') [2]

SCALE 1" = 100'

100 50 0 100
FEET

RECOVERED MONUMENT LIST

P.T. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
2014	277,400.48	8,617,065.76	116+85.29	38.54 LT.	6-01-2016	FD. 5/8" IRON ROD, ODOT DRG. 5B-11-10
2015	277,308.43	8,617,100.27	116+85.72	59.77 RT.	6-01-2016	FD. 5/8" IRON ROD, ODOT DRG. 5B-11-10
2016	277,530.60	8,617,613.67	122+42.02	39.99 LT.	6-01-2016	FD. 5/8" IRON ROD, ODOT DRG. 5B-11-10
2017	277,431.97	8,617,630.00	122+41.71	59.98 RT.	6-01-2016	FD. 5/8" IRON ROD, ODOT DRG. 5B-11-10
2019	277,325.80	8,617,151.22	117+41.59	60.23 RT.	6-01-2016	FD. 5/8" IRON ROD, ODOT DRG. 5B-11-10
2020	277,418.65	8,617,120.66	117+41.80	37.52 LT.	6-01-2016	FD. 5/8" IRON ROD, ODOT DRG. 5B-11-10

FD. = FOUND
DRG. = DRAWING
LT. = LEFT
RT. = RIGHT

REGISTERED
PROFESSIONAL
LAND SURVEYOR

Robert E. Butler

OREGON
JULY 25, 1995
ROBERT ERICH BUTLER
2733

EXPIRES: 12/31/2017

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP
LITTLE PINE CREEK CULVERT
JOHN DAY HIGHWAY
GRANT COUNTY



FOR ODOT REGION 5
3012 ISLAND AVE.
LA GRANDE, OR 97850-9497

MAY 30, 2017
SCALE: 1" = 100'
SHEET 1 OF 1

Rotation: 0° Scale: 1"=100'

MAP OF SURVEY NO. 2075