

EXISTING CONTROL MONUMENTS

STATION	NORTHING	EASTING
RAY	379,190.617	1,397,431.544
FLO	379,966.521	1,398,290.629
WEC-2	382,591.58	1,401,618.01
WEC-3	383,128.66	1,400,826.97
WEC-4	384,537.47	1,399,714.93
<u>MIDDLE COUNTY ROAD</u>		
LZ 161+24.36 PC	380,550.27	1,397,824.27
LZ 166+62.94 PT	380,945.79	1,398,160.26
LZ 175+83.12 POT	381,301.24	1,399,009.02
<u>SECTION CORNERS</u>		
EAST 1/4 SECTION 19	379,696.06	1,398,933.88
NE CORNER SECTION 19	382,359.63	1,399,058.56

$\Delta = 53^\circ 51' 29''$   
 $L = 538.58'$   
 $R = 572.96'$   
 $T = 291.04'$

HORIZONTAL CONTROL SUMMARY  
(for Sheets 1 thru 4)

THE STATE PLANE COORDINATES (SOUTH ZONE) AS SHOWN ON THESE MAPS (SHEETS 1 TO 4) ARE BASED STRICTLY ON THE SECOND ORDER CONTROL MONUMENTS ESTABLISHED BY DIRECTION OF THE U.S.C.E. STATIONS RAY, FLO, WEC-2, WEC-3 AND WEC-4 WERE USED.

1) COMBINED FACTORS FOR INDIVIDUAL MEASUREMENTS SHOULD BE CALCULATED BASED ON THE SCALE FACTOR AND ELEVATION FACTOR FOR THAT SPECIFIC LOCATION.

2) IF THETA  $\phi$  ANGLES ARE NEEDED, THEY SHOULD BE CALCULATED FROM THE COORDINATES FOR THAT SPECIFIC LOCATION.

LEGEND

- = CENTERLINE (C) OF ROAD
- - - = LIMIT OF CUT OR FILL
- O = SET 5/8" x 30" IRON REBAR W/ALUMINUM CAP STAMPED W/STATION, DATE AND "L.S. 1913", 0.05' BELOW SURFACE
- F = FILL
- C = CUT

1/4 CORNER GONE  
Used state plane coordinates (South Zone) as established by the U.S.C.E. reference from second order control monuments established along Elk Creek Road ("EC" monuments)

**\*\* RECEIVED \*\***  
 Date 11-20-87 By SK  
 This survey consists of:  
 4 sheet(s) Map  
 1 page(s) Narrative  
 JACKSON COUNTY SURVEYOR

ELK CREEK PROJECT  
 U.S. ARMY CORPS OF ENGINEERS  
**ELK CREEK**  
**MIDDLE COUNTY ROAD**  
 LOCATED IN  
 SECTION 19, T.33S., R.1E., W.M.  
 JACKSON COUNTY, OREGON

HOFFBUHR and ASSOCIATES, INC.  
 219 N. OAKDALE  
 MEDFORD, OREGON  
 BY: DOUGLAS C. McMAHAN L.S. NO. 1913  
 SCALE: 1"=100' DECEMBER 10, 1986

REGISTERED  
**PROFESSIONAL**  
**LAND SURVEYOR**  
*Douglas C. McMahan*  
 OREGON  
 JULY 18, 1980  
 DOUGLAS C. McMAHAN  
 No. 1913

SECTION CORNER DESTROYED  
Position referenced by Hoffbuhr and Associates, Inc. before it was destroyed.

SURVEY NO. 11039

SURVEY NARRATIVE TO COMPLY WITH PARAGRAPH 209.250  
OREGON REVISED STATUTES

SURVEY FOR: Portland District Army Corps of Engineers  
P.O. Box 2946  
Portland, Or. 97208-2946

LOCATION: Sections 17, 18, 19 and 20 in Township 33  
South, Range 1 East, Willamette Meridian,  
Jackson County, Oregon

PURPOSE: To file map of survey with Jackson County and to comply with the technical specifications and statement of work for centerline monumentation, Elk Creek Lake Project, Trail, Oregon, as it is outlined in Contract No. DACW57-85-C-0069 for the Dept. of the Army, Portland District Corps of Engineers. This survey is to enable the Corps of Engineers to write boundary and right-of-way descriptions for Elk Creek Lake County Road and logging access roads. This work was completed December 10, 1986.

PROCEDURE: Lambert Coordinates Oregon South Zone and all historical data pertaining to the contract were supplied to this office by the Government. The State Plane Coordinates (South Zone) as shown on these maps (sheets 1 thru 4) are based strictly on the Second Order Control monuments established by direction of the U.S.C.E.. Control Stations "RAY, FLO, WEC-2, WEC-3, WEC-4" were used.

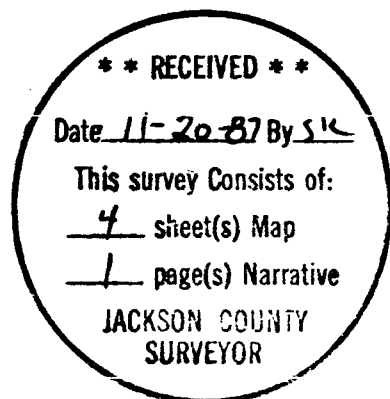
After construction of the relocated Elk Creek Lake County Road, utilizing as-built information, the centerline of the constructed roadway was monumented. A traverse was then run, beginning at control monuments WEC-2, WEC-3 and WEC-4, along the relocated roadway with ties to the centerline monuments and to government corners. The location of the government corners were used to determine the locations for monuments to be established at the intersection of the centerline of Elk Creek Road (relocated) and the section lines.

The traverse was closed into "RAY" and "FLO" and there was no evidence found to show that these monuments were not within the reported Second Order Control status.

Note: Some of the government corners used with this survey have been destroyed by construction and the best available information was used to represent each corner position as shown on the attached sheets. However, there is at this time (November, 1987) an extensive survey under way by the U.S.C.E. to determine the Elk Creek Lake Project Boundary which includes a breakdown of the above mentioned sections and may result in slightly different computed positions for the destroyed government corners.

Monuments were established as shown on the attached 4 sheets.

Completion of Survey - December 10, 1986  
Date of Narrative - November 16, 1987



REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

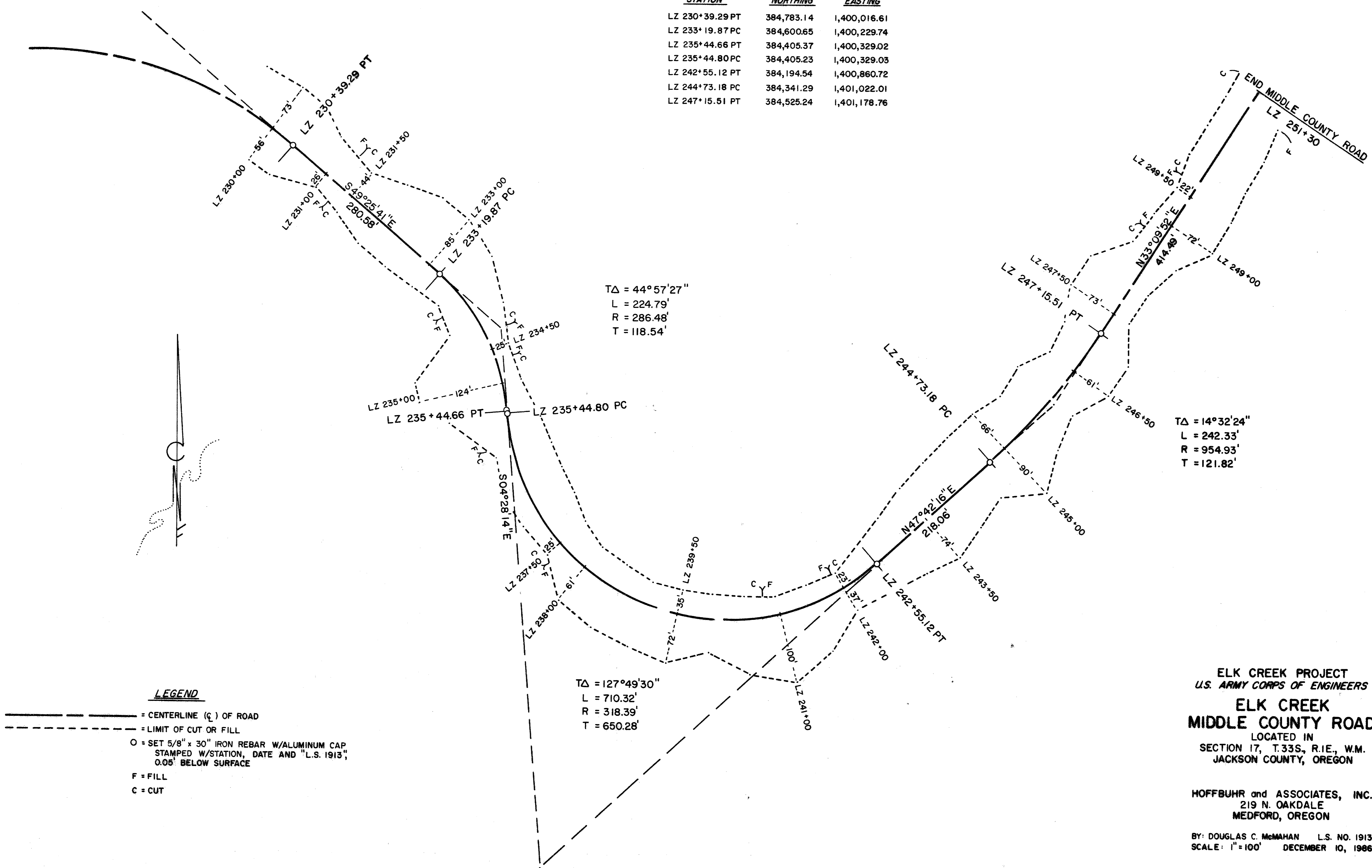
*Douglas C. McMahan*

OREGON  
JULY 19, 1909  
DOUGLAS C. McMAHAN  
No. 1913

Douglas C. McMahan  
Hoffbuhr & Associates, Inc.  
219 North Oakdale  
Medford, Oregon 97501

MIDDLE COUNTY ROAD

STATION	NORTHING	EASTING
LZ 230+39.29 PT	384,783.14	1,400,016.61
LZ 233+19.87 PC	384,600.65	1,400,229.74
LZ 235+44.66 PT	384,405.37	1,400,329.02
LZ 235+44.80 PC	384,405.23	1,400,329.03
LZ 242+55.12 PT	384,194.54	1,400,860.72
LZ 244+73.18 PC	384,341.29	1,401,022.01
LZ 247+15.51 PT	384,525.24	1,401,178.76



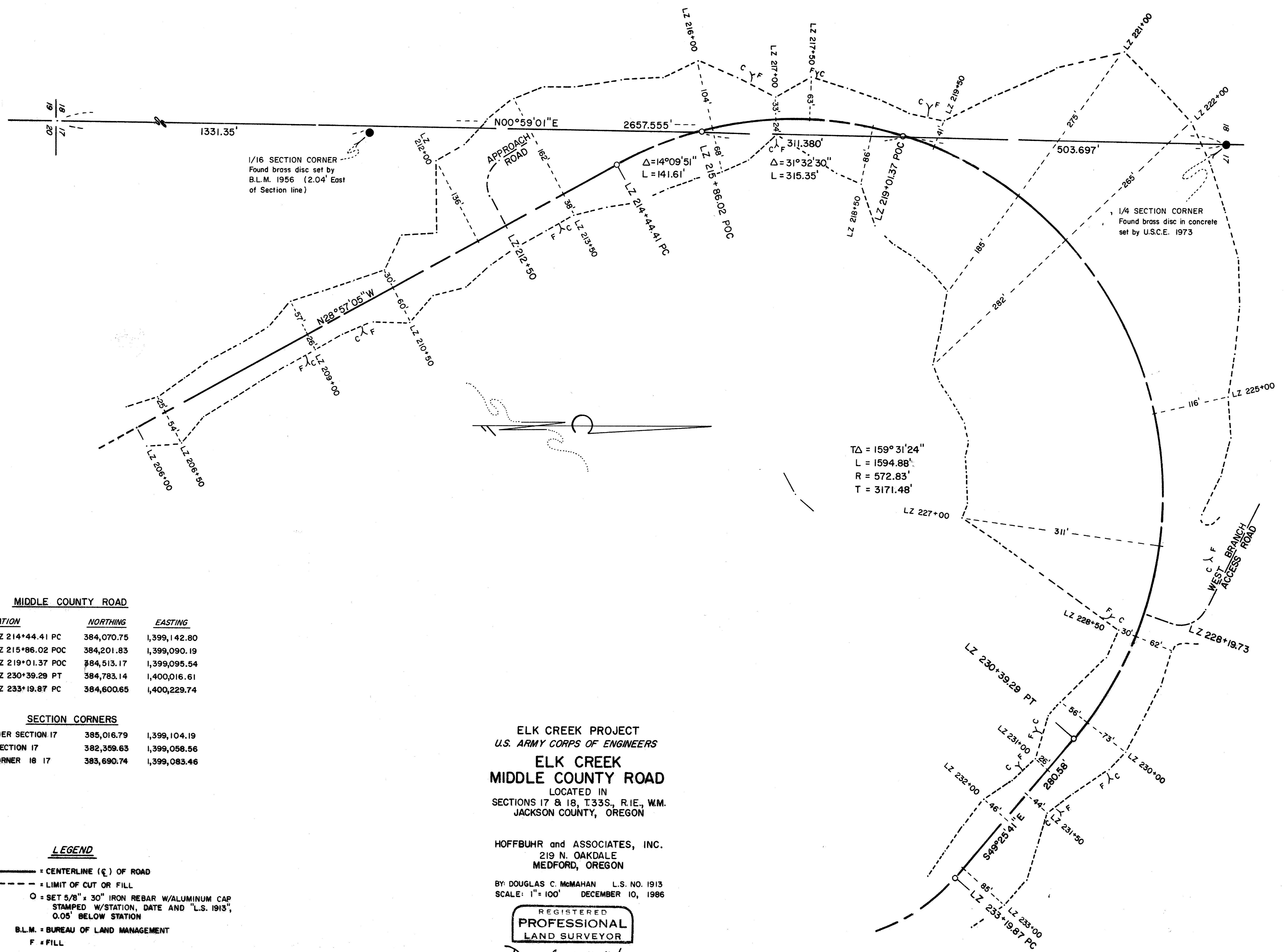
LEGEND

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- - - LIMIT OF CUT OR FILL
- O = SET 5/8" x 30" IRON REBAR W/ALUMINUM CAP STAMPED W/STATION, DATE AND "L.S. 1913", 0.05' BELOW SURFACE
- F = FILL
- C = CUT

ELK CREEK PROJECT  
 U.S. ARMY CORPS OF ENGINEERS  
**ELK CREEK  
 MIDDLE COUNTY ROAD**  
 LOCATED IN  
 SECTION 17, T.33S, R.1E, W.M.  
 JACKSON COUNTY, OREGON

HOFFBUHR and ASSOCIATES, INC.  
 219 N. OAKDALE  
 MEDFORD, OREGON  
 BY: DOUGLAS C. McMAHAN L.S. NO. 1913  
 SCALE: 1"=100' DECEMBER 10, 1986

REGISTERED  
**PROFESSIONAL  
 LAND SURVEYOR**  
*Douglas C. McMahan*  
 OREGON  
 JULY 18, 1980  
 DOUGLAS C. McMAHAN  
 No. 1913



**MIDDLE COUNTY ROAD**

STATION	NORTHING	EASTING
LZ 214+44.41 PC	384,070.75	1,399,142.80
LZ 215+86.02 POC	384,201.83	1,399,090.19
LZ 219+01.37 POC	384,513.17	1,399,095.54
LZ 230+39.29 PT	384,783.14	1,400,016.61
LZ 233+19.87 PC	384,600.65	1,400,229.74

**SECTION CORNERS**

WEST 1/4 CORNER SECTION 17	385,016.79	1,399,104.19
SW CORNER SECTION 17	382,359.63	1,399,058.56
SOUTH 1/16 CORNER 18 17	383,690.74	1,399,083.46

- LEGEND**
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  - B.L.M. = BUREAU OF LAND MANAGEMENT
  - F = FILL
  - C = CUT

ELK CREEK PROJECT  
 U.S. ARMY CORPS OF ENGINEERS  
**ELK CREEK**  
**MIDDLE COUNTY ROAD**  
 LOCATED IN  
 SECTIONS 17 & 18, T33S., R1E., W.M.  
 JACKSON COUNTY, OREGON

HOFFBUHR and ASSOCIATES, INC.  
 219 N. OAKDALE  
 MEDFORD, OREGON

BY: DOUGLAS C. McMAHAN L.S. NO. 1913  
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**PROFESSIONAL**  
**LAND SURVEYOR**  
*Douglas C. McMahan*  
 OREGON  
 JULY 18, 1989  
 DOUGLAS C. McMAHAN  
 No. 1913

MIDDLE COUNTY ROAD

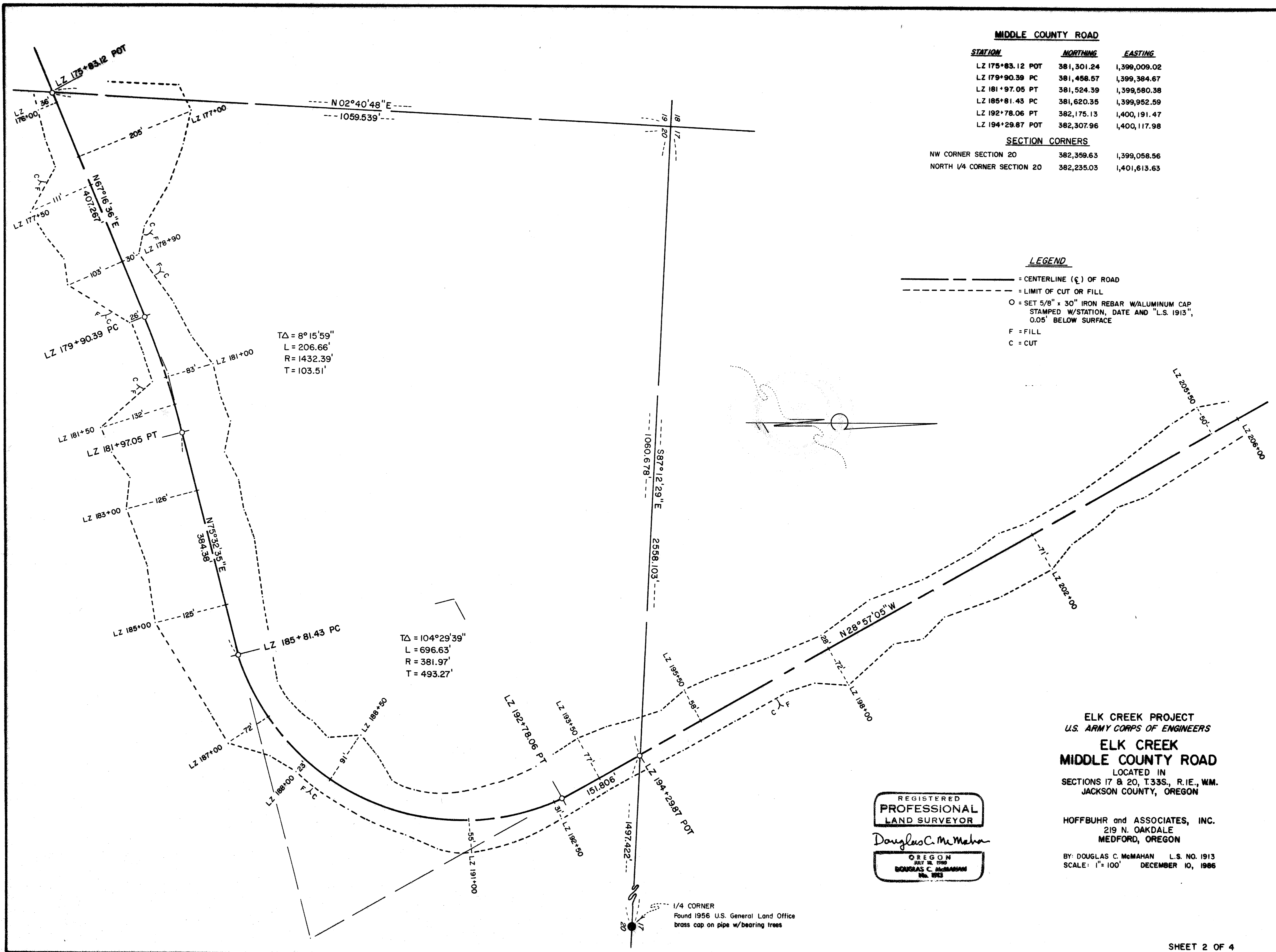
STATION	NORTHING	EASTING
LZ 175+83.12 POT	381,301.24	1,399,009.02
LZ 179+90.39 PC	381,488.57	1,399,384.67
LZ 181+97.05 PT	381,524.39	1,399,580.38
LZ 185+81.43 PC	381,620.35	1,399,952.59
LZ 192+78.06 PT	382,175.13	1,400,191.47
LZ 194+29.87 POT	382,307.96	1,400,117.98

SECTION CORNERS

NW CORNER SECTION 20	382,359.63	1,399,058.56
NORTH 1/4 CORNER SECTION 20	382,235.03	1,401,613.63

LEGEND

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 U.S. ARMY CORPS OF ENGINEERS  
**ELK CREEK**  
**MIDDLE COUNTY ROAD**  
 LOCATED IN  
 SECTIONS 17 & 20, T33S, R1E, WM.  
 JACKSON COUNTY, OREGON

REGISTERED  
**PROFESSIONAL**  
**LAND SURVEYOR**  
*Douglas C. McMahon*  
 OREGON  
 JULY 22, 1988  
**DOUGLAS C. McMAHON**  
 No. 993

HOFFBUHR and ASSOCIATES, INC.  
 219 N. OAKDALE  
 MEDFORD, OREGON  
 BY: DOUGLAS C. McMAHON L.S. NO. 1913  
 SCALE: 1" = 100' DECEMBER 10, 1986