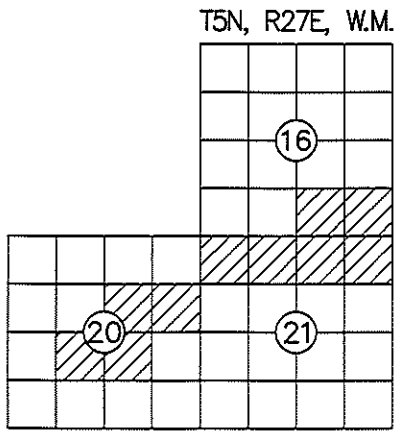
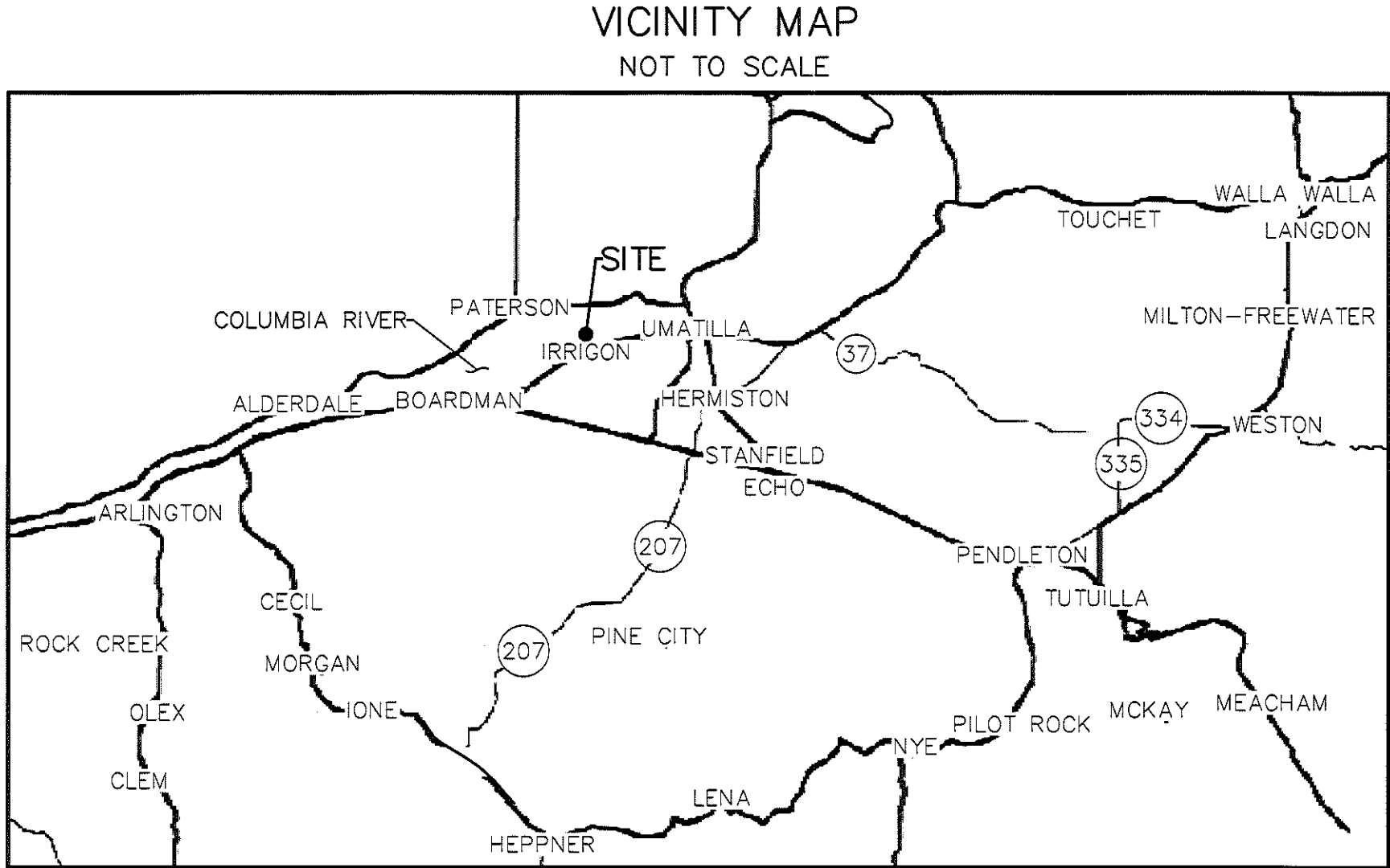
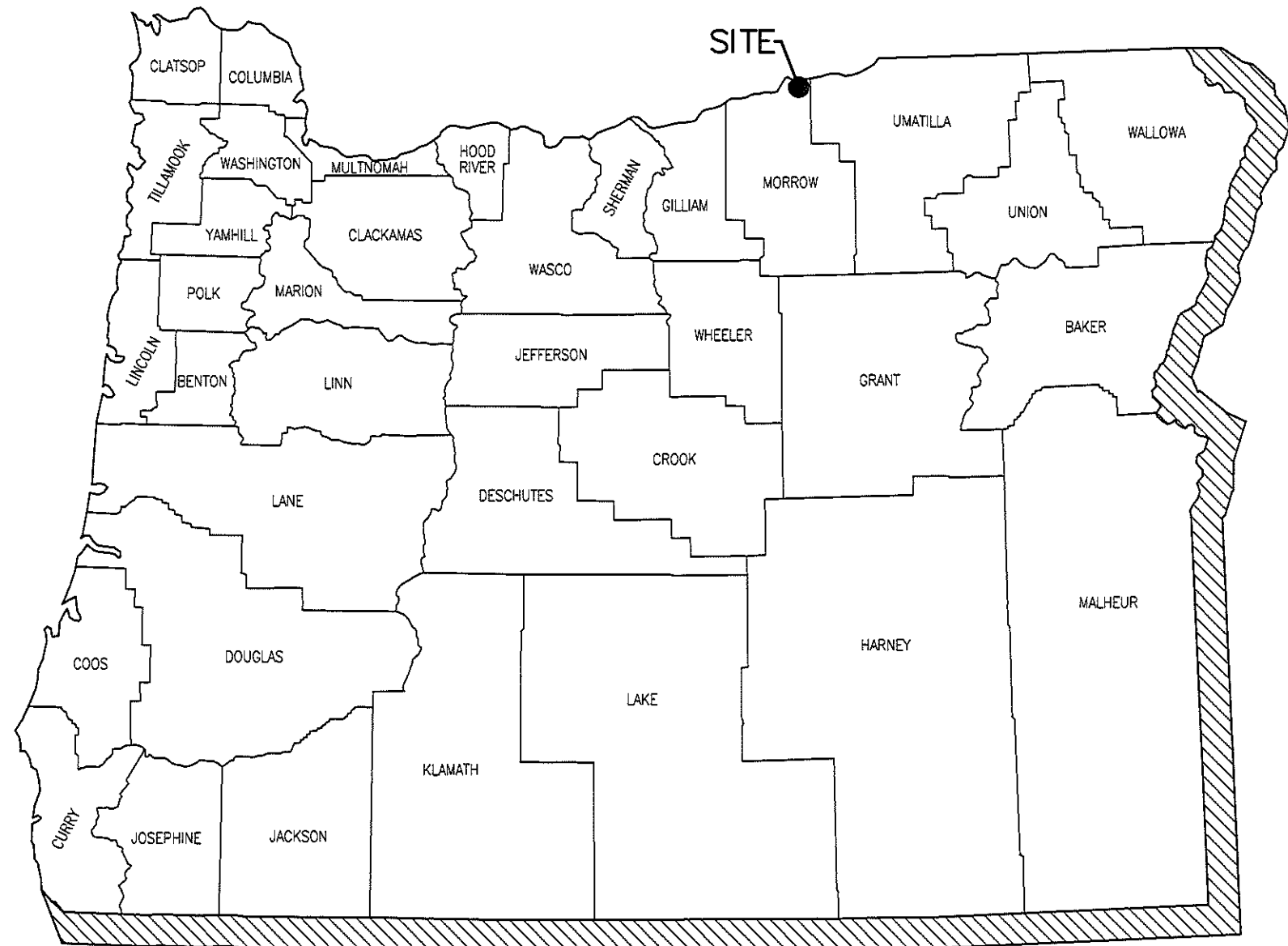




RECORD OF SURVEY

LOCATED IN PORTIONS OF
THE SE 1/4, SW 1/4 OF THE SE 1/4 OF SECTION 16
THE NW 1/4, NE 1/4 OF THE NE 1/4 AND
THE NW 1/4, NE 1/4 OF THE NW 1/4 OF SECTION 21
THE SW 1/4, SE 1/4 OF THE NE 1/4 AND
THE NW 1/4 OF THE SE 1/4 AND
THE NE 1/4 OF THE SW 1/4 OF SECTION 20
T. 5 N., R. 27 E., W.M.
MORROW COUNTY, OREGON

SURVEY FOR: US ARMY CORPS OF ENGINEERS, PORTLAND DISTRICT
333 SE 1ST AVE, PORTLAND, OR 97204

NARRATIVE:

THE PURPOSE OF THIS SURVEY WAS TO FULFILL THE REQUIREMENTS FOR A PORTION OF CONTRACT NO. W9127N16D3003 AND TASK ORDER NO. W9127N21F0070 FOR OPTIONAL TASK 8: UMATILLA RIVER LEFT BANK TO IRRIGON.

LOCATION OF PROJECT:
THE WEST END OF THIS PROJECT IS LOCATED APPROXIMATELY 1 MILE NORTHEAST FROM IRRIGON ON HWY 730 IN MORROW COUNTY, OREGON AND LOCATED IN PORTIONS OF THE FOLLOWING:

- SECTION 16, T. 5 N., R. 27 E., W.M.
- SECTION 20, T. 5 N., R. 27 E., W.M.
- SECTION 21, T. 5 N., R. 27 E., W.M.

GENERAL NOTES:

THIS CONTRACT IS FOR BOUNDARY LINE MONUMENTATION AND MAINTENANCE. WE RECOVERED 34 MONUMENTS, SURVEYED AND POSTED 1.75 MILES OF BOUNDARY AND RESET 6 MONUMENTS. SURVEY AND LAND RECORDS RESEARCH WAS PERFORMED TO VERIFY THE CHAIN OF SURVEY AT EACH CORNER. US ARMY CORPS OF ENGINEERS BOUNDARY DELINEATOR CARSONITE POSTS WERE SET ALONG THE SURVEYED BOUNDARY LINES SHOWN HEREIN. ALL CORNER SEARCH AND EVALUATION WAS PERFORMED BY DANIEL RENTON, PLS 2830. ALL NECESSARY MONUMENTS AND POSTS WERE PROVIDED BY THE US ARMY CORPS OF ENGINEERS.

BOUNDARY NOTES:

MONUMENTS OF RECORD THAT WERE FOUND IN ACCEPTABLE POSITIONS WERE HELD AND A US ARMY CORPS OF ENGINEERS BOUNDARY DELINEATOR CARSONITE POST WAS SET ALONGSIDE FOR MONUMENTS THAT WERE NOT FOUND, DESTROYED OR IN POOR CONDITION. WE RESET AT PROPORTIONATE DISTANCES USING THE RECORD FROM THE NEAREST HELD MONUMENTS AND A US ARMY CORPS OF ENGINEERS BOUNDARY DELINEATOR CARSONITE POST WAS SET ALONGSIDE. THE MEASURED AND RECORD BEARINGS AND DISTANCES ARE SHOWN HEREIN FOR COMPARISON.

SHEET INDEX

- SHEET 1 VICINITY MAP, EQUIPMENT LIST, CONTROL DIAGRAM AND TABLE, CONTROL PROCEDURE, CERTIFICATES, AND NARRATIVE
SHEET 2-4 SITE DETAILS, FOUND AND SET MONUMENT COORDINATE TABLES, AND LEGEND
SHEET 5 MONUMENT DETAILS

EQUIPMENT LIST:

2018 GMC SIERRA 2500HD SURVEY TRUCK
TRIMBLE R12 GNSS BASE RECEIVER
TRIMBLE R12 GNSS ROVER RECEIVER
TRIMBLE S7 3" TOTAL STATION
TRIMBLE TDL 450HX 25-WATT RADIO
TRIMBLE TSC5 DATA COLLECTOR WITH TRIMBLE ACCESS SOFTWARE
AUTODESK CIVIL 3D 2023
TRIMBLE BUSINESS CENTER
STAR-NET LEAST SQUARES ADJUSTMENT SOFTWARE

SURVEY REFERENCES:

- 1) WENGLER SURVEY FOR CORPS OF ENGINEERS, SURVEY #C-229-K, FOLDER #400 (1979)
- 2) WENGLER SURVEY FOR CORPS OF ENGINEERS, SURVEY #C-230-K, FOLDER #401 (1979)
- 3) WENGLER SURVEY FOR CORPS OF ENGINEERS, SURVEY #C-958-B, UMATILLA COUNTY (1979)
- 4) GRIFFIS AND WIGHTMAN SURVEY FOR CORPS OF ENGINEERS, SURVEY #C-646-K, FOLDER #491 (1983)
- 5) BAALMAN PARTITION PLAT NO. 2021-7, FOLDER #1916 (2021)

HORIZONTAL DATUM:

NAD 83(2011)(EPOCH: 2010.0000), OREGON COORDINATE REFERENCE SYSTEM (OORS), COLUMBIA RIVER EAST ZONE, INTERNATIONAL FEET.

BASIS OF BEARING: N 64°21'43" E ALONG THE CONTROL LINE BETWEEN (MGS CONTROL POINT 55) AND (MGS CONTROL POINT 56)

REGISTERED
PROFESSIONAL
LAND SURVEYOR
Daniel A. Renton
OREGON
JUNE 30, 1997
DANIEL A. RENTON
2830
Expires 12-31-2024

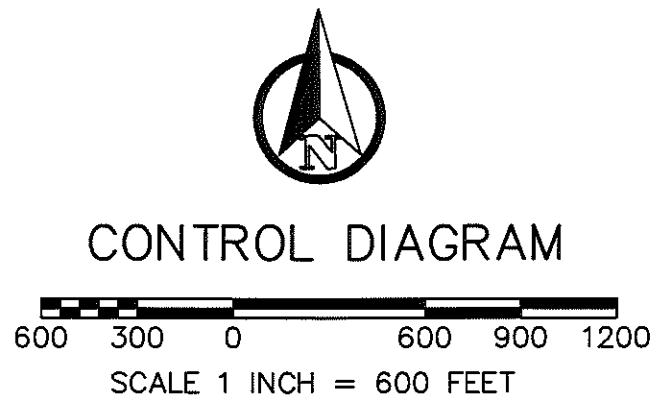
MORROW COUNTY
SURVEYOR'S OFFICE
C.S.# 2024-2061D
SURVEY NO. 2061
FILED 4-10-2024
BY MPK

CONTROL PROCEDURE:

A TRIMBLE R12 GNSS BASE RECEIVER WAS USED TO COLLECT OVER 8 HOURS OF STATIC DATA ON THE PRIMARY CONTROL POINTS 55 AND 56. THE STATIC DATA WAS THEN POST PROCESSED USING THE NATIONAL GEODETIC SURVEY ONLINE POSITIONING USER SERVICE (OPUS).

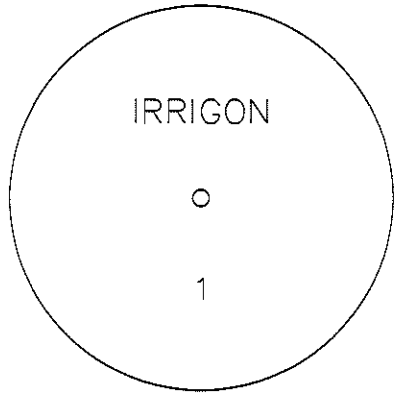
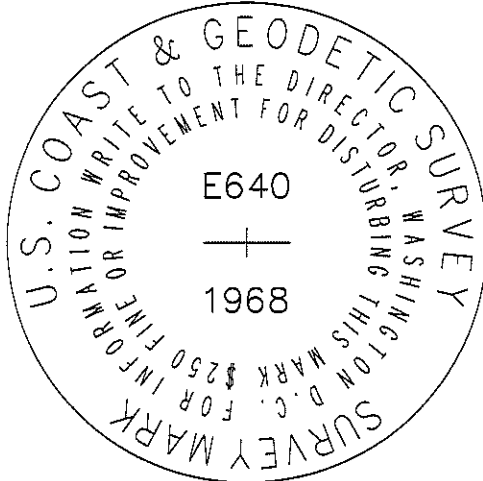
THE MONUMENTS SHOWN HEREIN WERE TIED AND SET DIRECTLY USING A TRIMBLE R12 GNSS BASE RECEIVER OPERATING IN A REAL TIME KINEMATIC (RTK) MODE WHILE SET ON THE PRIMARY OPUS CONTROL AND TRANSMITTING REAL TIME CORRECTIONS TO A TRIMBLE R12 GNSS RECEIVER ALSO OPERATING IN (RTK) MODE.

CONTROL POINT TABLE				
POINT NO.	NORTHING	EASTING	ELEV	DESCRIPTION
55	185556.165	756257.192	282.68	US COAST AND GEODETIC BRASS DISK E640
56	189268.074	763991.369	286.45	5/8" IRON ROD W/ 2" ALUMINUM CAP "IRRIGON 1"



LEGEND:

△ INDICATES MGS CONTROL POINT



CONTROL POINT: 55

CONTROL POINT: 56



US Army Corps of Engineers®

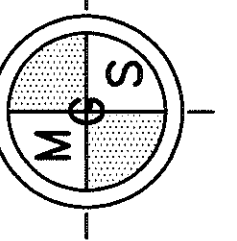
PREPARED FOR:
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT
333 SW FIRST AVE
PORTLAND OR 97204

SURVEY DATE: 3/21/2024
DESIGNED BY: DAN RENTON
DRAWN BY: RCH
CHECKED BY: DAN RENTON
FILE NUMBER: 2108
PLOT SCALE: N/A
PLOT DATE: 3/21/2024
FILE NAME: 2108S_IRRIGON_MAD_COES
ARCHID: N/A

U.S. ARMY
CORPS OF ENGINEERS
PORTLAND DISTRICT
333 SW FIRST AVE
PORTLAND OR 97204

RECORD OF SURVEY
FOR PROJECT BOUNDARY MAINTENANCE
CONTRACT NO. W9127N-16-D-3003
DELIVERY ORDER NO. W9127N21F0070
OPTIONAL TASK 8: UMATILLA RIVER LEFT BANK TO IRRIGON
BOUNDARY LOCATED IN MORROW COUNTY

MINISTER-GLAESER
SURVEYING INC.
2200 E. EVERGREEN BLVD.
VANCOUVER, WA 98661
(360) 694-3373



SHEET
IDENTIFICATION
1 of 5

2061

2061

FOUND MONUMENT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
131	187071.73	760022.66	BROKEN USACE MONUMENT STEM
132	187739.57	760014.10	USACE 4" ALUMINUM MONUMENT "21-2"
133	188020.58	761302.33	USACE 4" ALUMINUM MONUMENT "21-4"
134	188176.78	762036.33	5/8" IRON ROD W/ PPC "RSI DPB 8684PLS"
135	188305.67	762642.02	3-1/2" BLM BRASS CAP "E 1/16 S16 S21"
290	188080.66	761584.65	5/8" IRON ROD W/ PPC "RSI DPB 8684PLS"
291	188073.76	761561.85	5/8" IRON ROD W/ NO CAP

SET MONUMENT TABLE		
POINT NO.	NORTHING	EASTING
289	187860.92	760570.39
292	188181.00	762056.19
329	187071.73	760022.66

LEGEND:

(DATA S#) INDICATES RECORD DATA PER SURVEY REFERENCE NUMBER

USACE INDICATES UNITED STATES ARMY CORPS OF ENGINEERS

BLM INDICATES BUREAU OF LAND MANAGEMENT

YPC INDICATES YELLOW PLASTIC CAP

PPC INDICATES PINK PLASTIC CAP

N.O.L. INDICATES NORTH OF LINE

E.O.L. INDICATES EAST OF LINE

S.O.L. INDICATES SOUTH OF LINE

W.O.L. INDICATES WEST OF LINE

● INDICATES MONUMENT FOUND AS NOTED IN TABLES

○ INDICATES CALCULATED POSITION

⊙ INDICATES 5/8" x 30" REBAR WITH 3-1/4" ALUMINUM MONUMENT, SET (SEE MONUMENT DETAILS SHEET 5)

⊙ INDICATES 5/8" x 30" REBAR WITH 3-1/4" ALUMINUM CAP, SET AS A WITNESS CORNER (SEE SHEET 2, DETAIL "F" AND MONUMENT DETAILS SHEET 5)

INDICATES MONUMENT TAG AND NUMBER

△ INDICATES MGS CONTROL POINT (SEE CONTROL DIAGRAM SHEET 1)

—X—X— INDICATES USACE BOUNDARY

—X—X— INDICATES FENCE LINE

NOTE: SEE MONUMENT DETAILS SHEET 5

RECORD OF SURVEY

LOCATED IN PORTIONS OF
THE SE 1/4, SW 1/4 OF THE SE 1/4 OF SECTION 16
THE NW 1/4, NE 1/4 OF THE NE 1/4 AND
THE NW 1/4, NE 1/4 OF THE NW 1/4 OF SECTION 21
THE SW 1/4, SE 1/4 OF THE NE 1/4 AND
THE NW 1/4 OF THE SE 1/4 AND
THE NE 1/4 OF THE SW 1/4 OF SECTION 20
T. 5 N., R. 27 E., W.M.
MORROW COUNTY, OREGON



US Army Corps
of Engineers

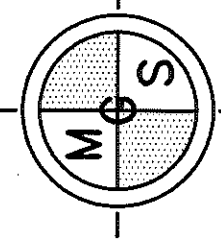
PREPARED FOR:
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT
333 SW FIRST AVE
PORTLAND OR 97204

DESIGNED BY: DAN RENTON
DWN BY: DRH
SUBMITTED BY: DRH
PLOT SCALE: 1"=100'
FILE NAME: 213265_IRRIGON_NAD.DCRS
ARCH D: 213265_IRRIGON_NAD.DCRS

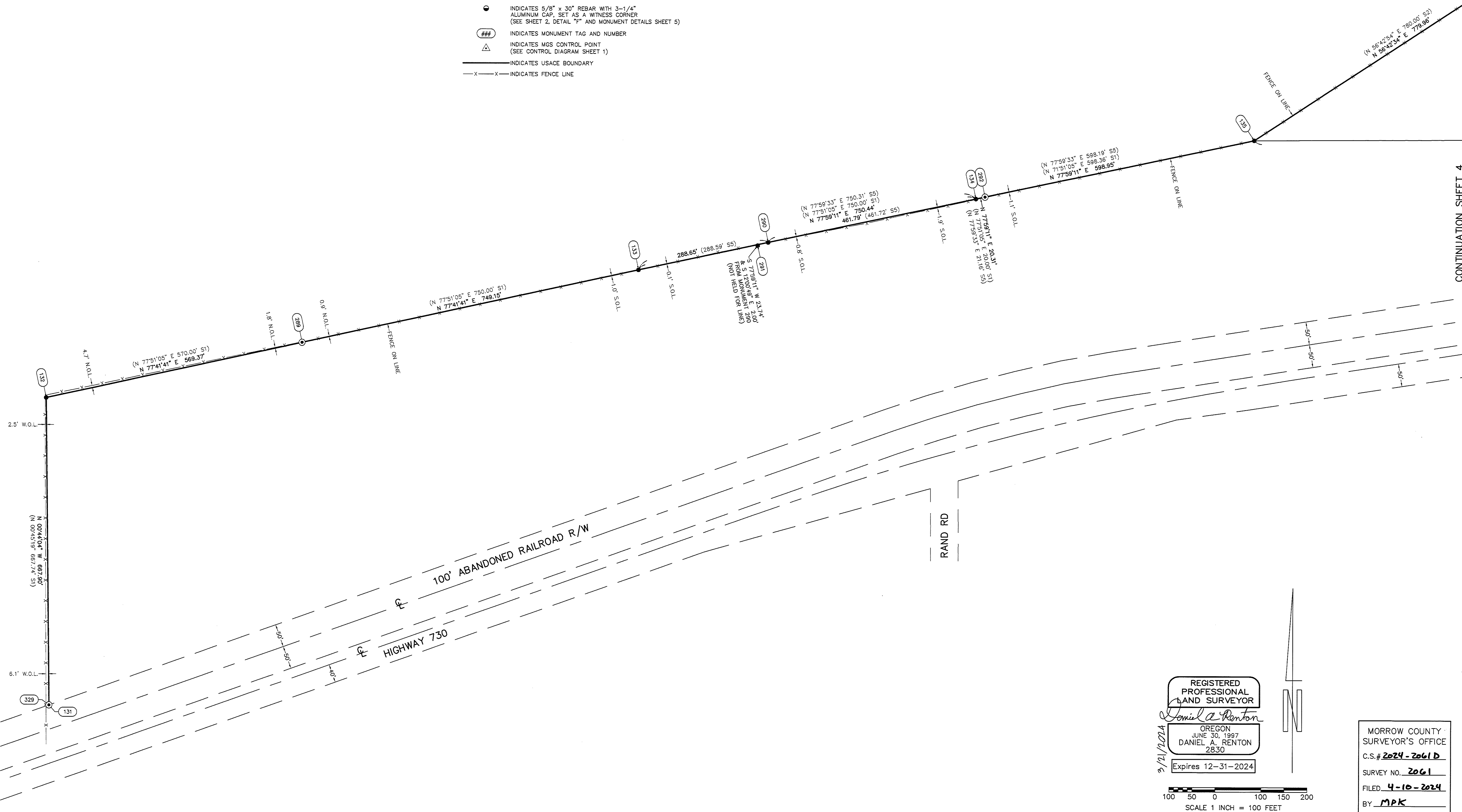
U.S. ARMY
CORPS OF ENGINEERS
PORTLAND DISTRICT
333 SW FIRST AVE
PORTLAND OR 97204

RECORD OF SURVEY
LAND SURVEY FOR PROJECT BOUNDARY MAINTENANCE
CONTRACT NO. W812N-16-D-3003
DELIVERY ORDER NO. W812N16D070
OPTIONAL TASK E. UMATILLA RIVER LEFT BANK TO IRRIGON
BOUNDARY LOCATED IN MORROW COUNTY

MINISTER-GLAESER
SURVEYING INC.
2200 E. EVERGREEN BLVD.
VANCOUVER, WA 98661
(360) 694-3313



SHEET
IDENTIFICATION
3 OF 5



2061

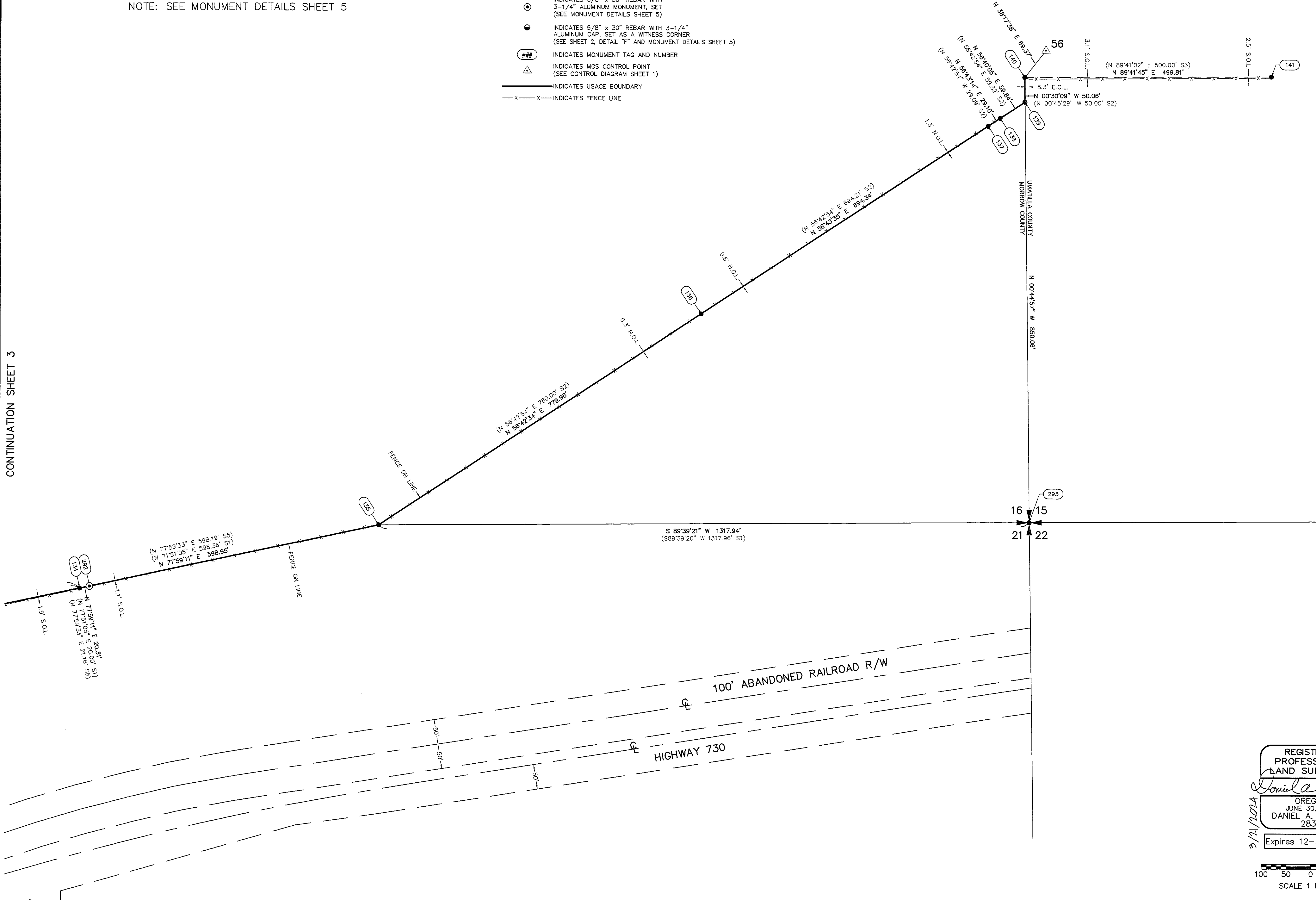
2061

FOUND MONUMENT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
134	188176.78	762036.33	5/8" IRON ROD W/ PPC "RSI DPB 8684PLS"
135	188305.67	762642.02	3-1/4" BLM BRASS CAP "E 1/16 S16 S21"
136	188733.78	763293.98	USACE 4" ALUMINUM MONUMENT "16-1"
137	189114.72	763874.49	USACE 4" ALUMINUM MONUMENT "16-1B"
138	189130.69	763898.82	USACE 4" ALUMINUM MONUMENT "16-2B"
139	189163.57	763948.82	USACE 4" ALUMINUM MONUMENT "15/16-1"
140	189213.63	763948.38	USACE 4" ALUMINUM MONUMENT "16/15-2"
141	189216.28	764448.18	USACE 4" ALUMINUM MONUMENT "15-1"
293	188313.59	763959.94	3-1/4" BLM BRASS CAP "S15 S16 S21 S22"

SET MONUMENT TABLE		
POINT NO.	NORTHING	EASTING
292	188181.00	762056.19

- LEGEND:
- (DATA S#)
- INDICATES RECORD DATA PER SURVEY REFERENCE NUMBER
- USACE INDICATES UNITED STATES ARMY CORPS OF ENGINEERS
- BLM INDICATES BUREAU OF LAND MANAGEMENT
- YPC INDICATES YELLOW PLASTIC CAP
- PPC INDICATES PINK PLASTIC CAP
- N.O.L. INDICATES NORTH OF LINE
- E.O.L. INDICATES EAST OF LINE
- S.O.L. INDICATES SOUTH OF LINE
- W.O.L. INDICATES WEST OF LINE
- INDICATES MONUMENT FOUND AS NOTED IN TABLES
- INDICATES CALCULATED POSITION
- ⊙ INDICATES 5/8" x 30" REBAR WITH 3-1/4" ALUMINUM MONUMENT, SET (SEE MONUMENT DETAILS SHEET 5)
- ⦿ INDICATES 5/8" x 30" REBAR WITH 3-1/4" ALUMINUM CAP, SET AS A WITNESS CORNER (SEE SHEET 2, DETAIL "F" AND MONUMENT DETAILS SHEET 5)
- ### INDICATES MONUMENT TAG AND NUMBER
- △ INDICATES MGS CONTROL POINT (SEE CONTROL DIAGRAM SHEET 1)
- INDICATES USACE BOUNDARY
- X—X— INDICATES FENCE LINE

NOTE: SEE MONUMENT DETAILS SHEET 5



RECORD OF SURVEY

LOCATED IN PORTIONS OF
THE SE 1/4, SW 1/4 OF THE SE 1/4 OF SECTION 16
THE NW 1/4, NE 1/4 OF THE NE 1/4 AND
THE NW 1/4, NE 1/4 OF THE NW 1/4 OF SECTION 21
THE SW 1/4, SE 1/4 OF THE NE 1/4 AND
THE NW 1/4 OF THE SE 1/4 AND
THE NE 1/4 OF THE SW 1/4 OF SECTION 20
T. 5 N., R. 27 E., W.M.
MORROW COUNTY, OREGON



U.S. Army Corps
of Engineers®

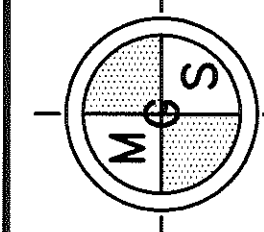
PREPARED FOR:
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT
333 SW FIRST AVE
PORTLAND OR 97204

DESIGNED BY: DAN RENTON	CKD BY: DMR	SURVEY DATE: 3/21/2024
DWN BY: RCH	DATE BY: DAN RENTON	FILE NUMBER: 21-328
DATE BY: DAN RENTON	DATE BY: DAN RENTON	FILE NAME: 213285_IRRIGON_ND_COPS
DATE BY: DAN RENTON	DATE BY: DAN RENTON	FILE NAME: 213285_IRRIGON_ND_COPS

U.S. ARMY
CORPS OF ENGINEERS
PORTLAND DISTRICT
333 SW FIRST AVE
PORTLAND OR 97204

RECORD OF SURVEY
LAND SURVEY FOR PROJECT BOUNDARY MAINTENANCE
CONTRACT NO. W9127N-16-D-3003
DELIVERY ORDER NO. W9127N-16-D-3003
OPTIONAL TASK 8: UMATILLA RIVER LEFT BANK TO IRRIGON
BOUNDARY LOCATED IN MORROW COUNTY

MINISTER-GLAESER
SURVEYING INC.
2200 E. EVERGREEN BLVD.
VANCOUVER, WA 98661
(360) 694-3373



SHEET
IDENTIFICATION
4 OF 5

REGISTERED
PROFESSIONAL
LAND SURVEYOR
Daniel A. Renton
OREGON
JUNE 30, 1997
DANIEL A. RENTON
2830
Expires 12-31-2024

100 50 0 100 150 200
SCALE 1 INCH = 100 FEET

MORROW COUNTY
SURVEYOR'S OFFICE
C.S.# 2024-2061D
SURVEY NO. 2061
FILED 4-10-2024
BY MPK

RECORD OF SURVEY

LOCATED IN PORTIONS OF
THE SE 1/4, SW 1/4 OF THE SE 1/4 OF SECTION 16
THE NW 1/4, NE 1/4 OF THE NE 1/4 AND
THE NW 1/4, NE 1/4 OF THE NW 1/4 OF SECTION 21
THE SW 1/4, SE 1/4 OF THE NE 1/4 AND
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THE NE 1/4 OF THE SW 1/4 OF SECTION 20
T. 5 N., R. 27 E., W.M.
MORROW COUNTY, OREGON

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LAND SURVEYOR
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DANIEL A. RENTON
2830
Expires 12-31-2024



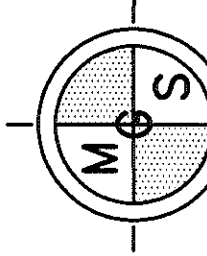
PREPARED FOR:
U.S. ARMY CORPS OF ENGINEERS
PORTLAND DISTRICT
333 SW FIRST AVE
PORTLAND OR 97204

DESIGNED BY: DAN RENTON
DRAWN BY: RCH
CHECKED BY: DAN RENTON
FILE NUMBER: 21-26
PLOT SCALE: 1"=40'
PLOT DATE: 3/21/2024
FILE NAME: 2126RS. IRRIGON, MD. DCRS
ARCHID: 2126RS. IRRIGON, MD. DCRS

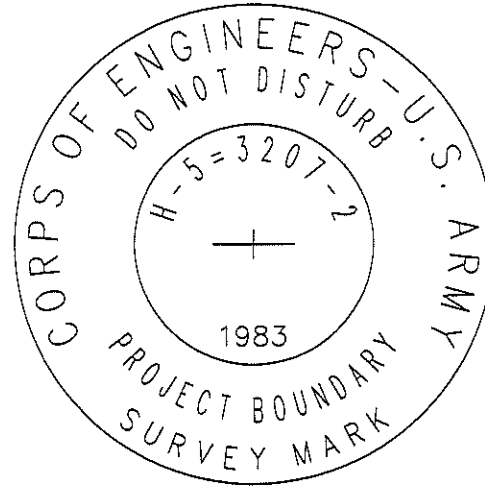
U.S. ARMY
CORPS OF ENGINEERS
PORTLAND DISTRICT
333 SW FIRST AVE
PORTLAND OR 97204

RECORD OF SURVEY
LAND SURVEY FOR PROJECT BOUNDARY MAINTENANCE
CONTRACT NO. W9127N-16-D-3003
DELIVERY ORDER NO. W9127N16D0070
OPTIONAL TASK B. UNATTILA RIVER LEFT BANK TO IRRIGON
BOUNDARY LOCATED IN MORROW COUNTY

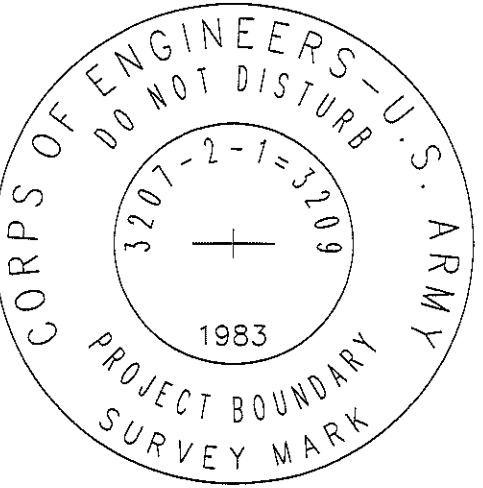
MINISTER-GLAESER
SURVEYING INC.
2200 E. EVERGREEN BLVD.
VANCOUVER, WA 98661
(360) 694-3313



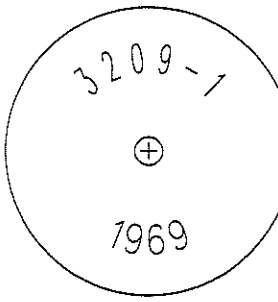
SHEET
IDENTIFICATION
5 OF 5



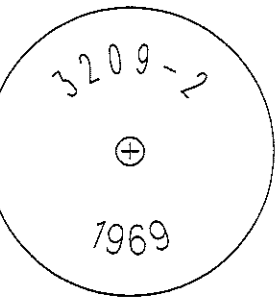
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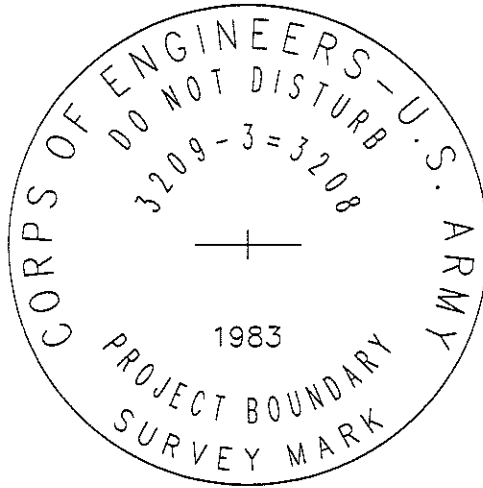
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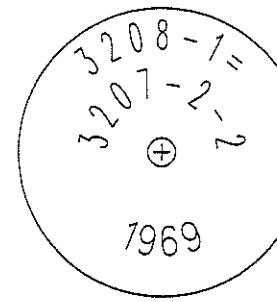
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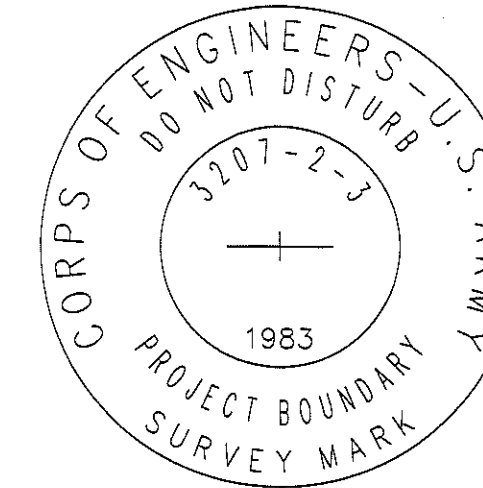
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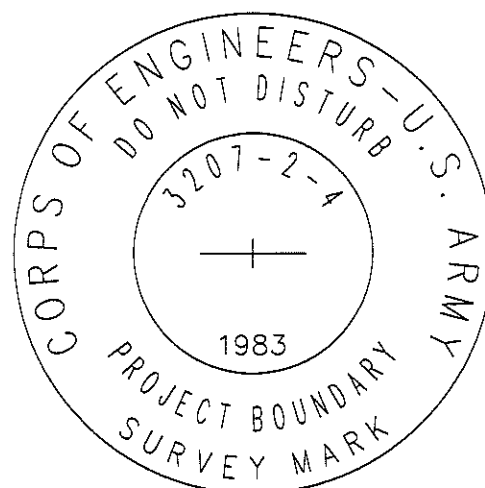
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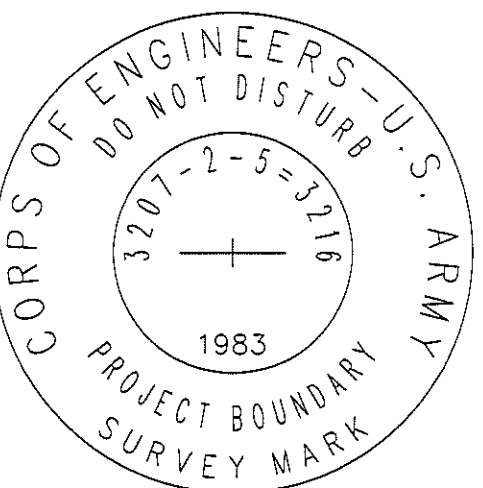
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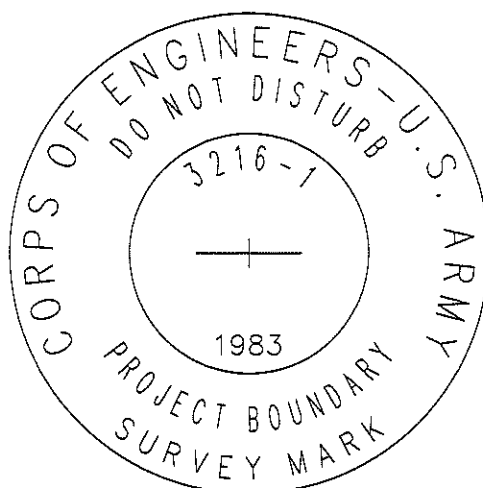
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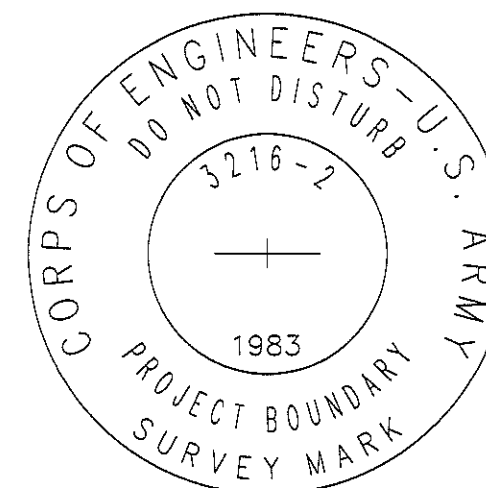
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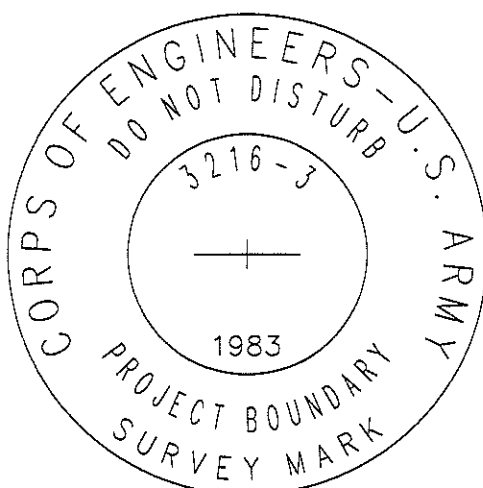
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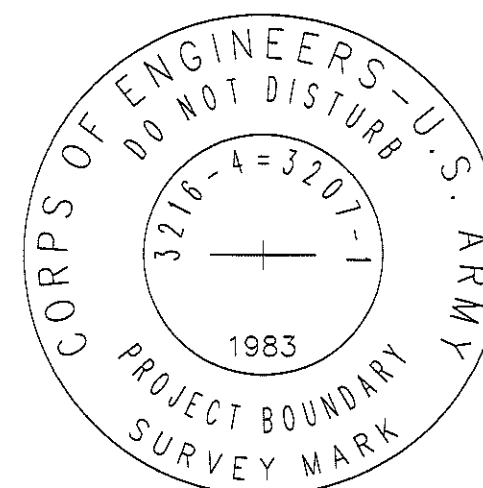
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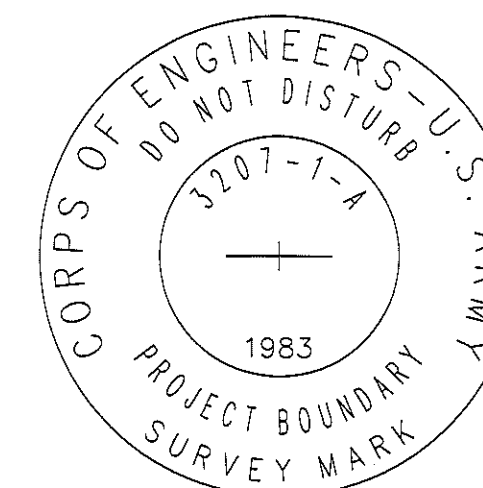
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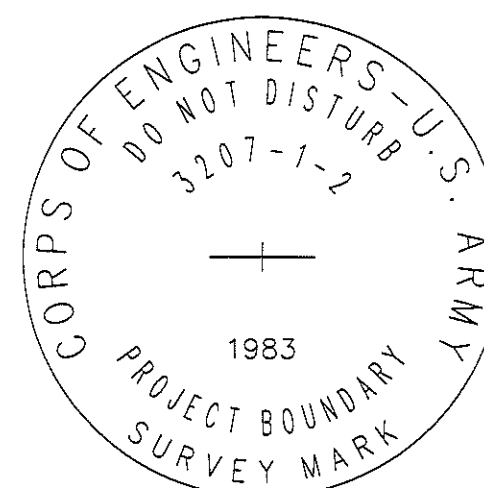
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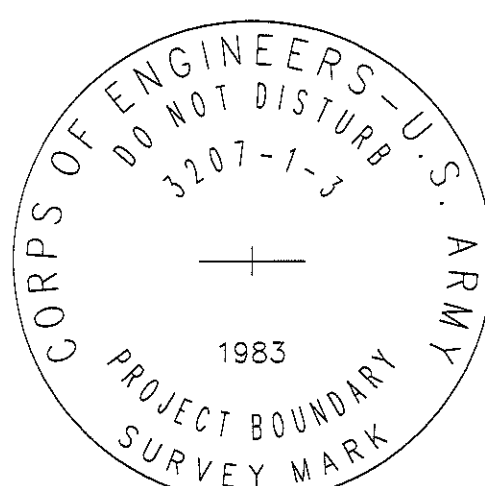
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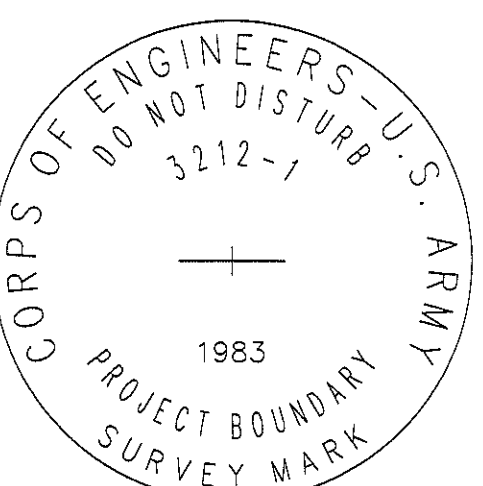
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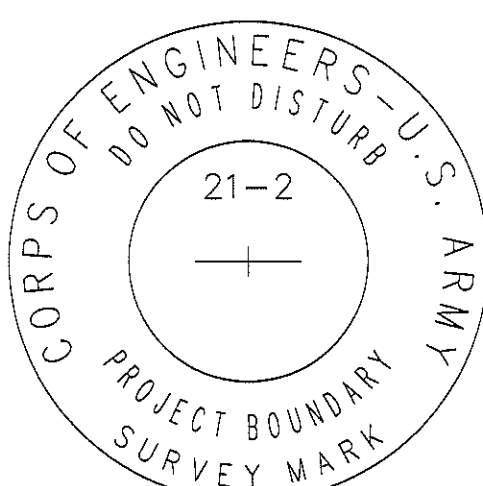
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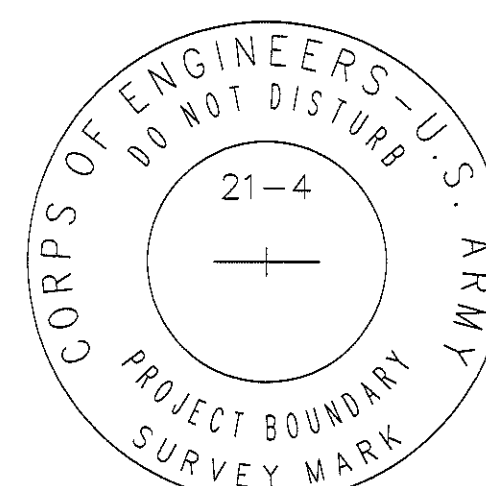
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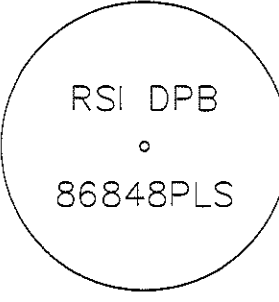
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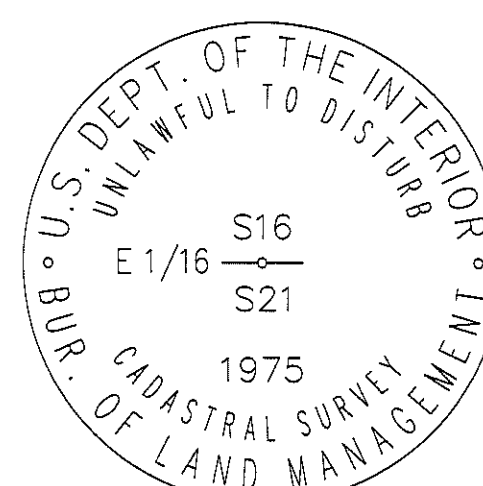
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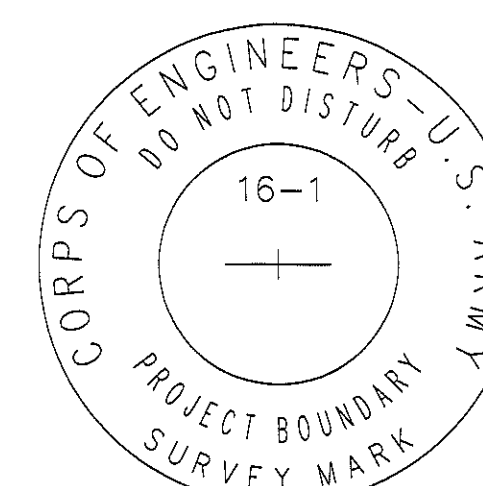
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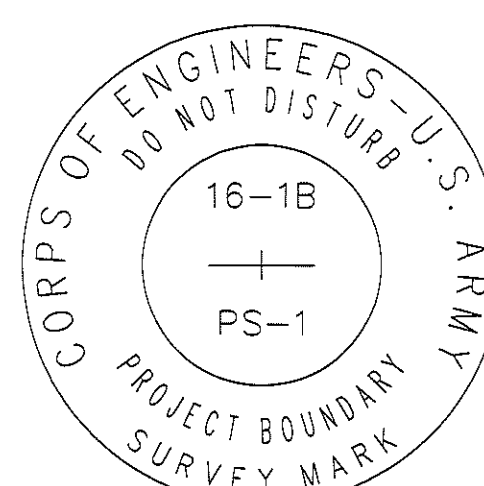
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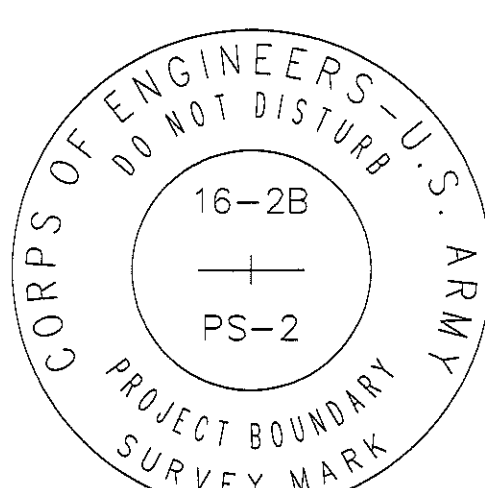
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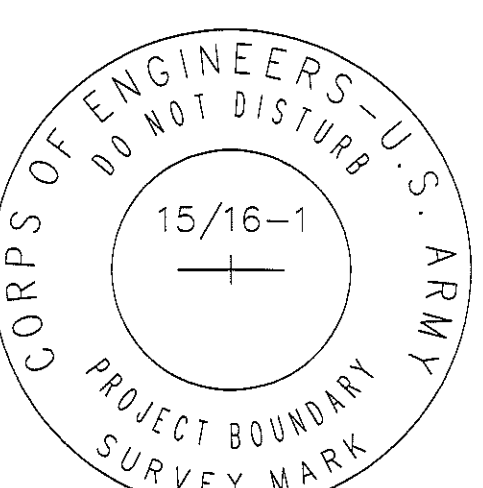
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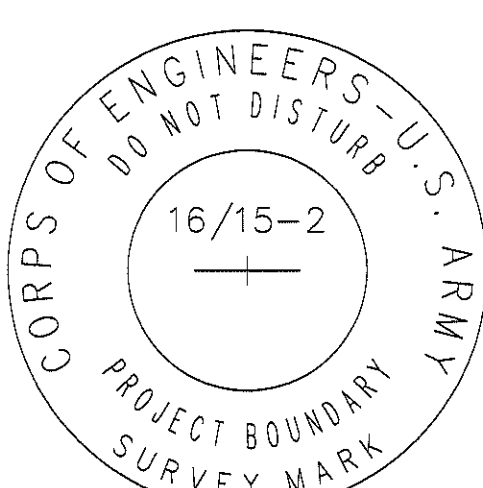
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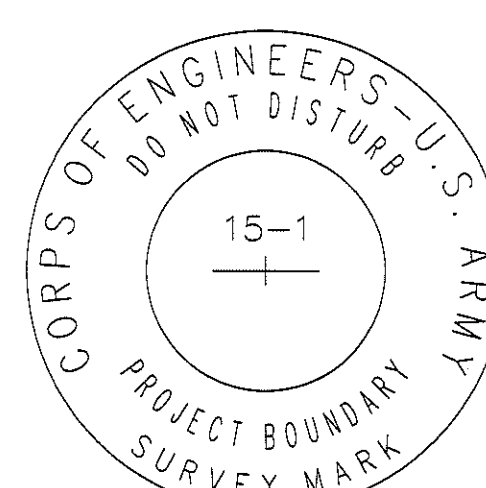
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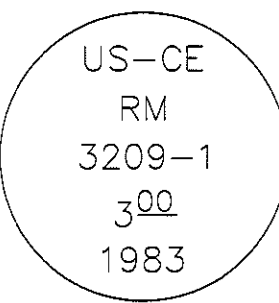
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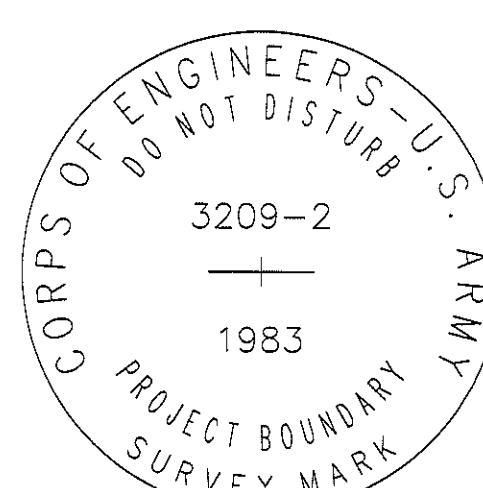
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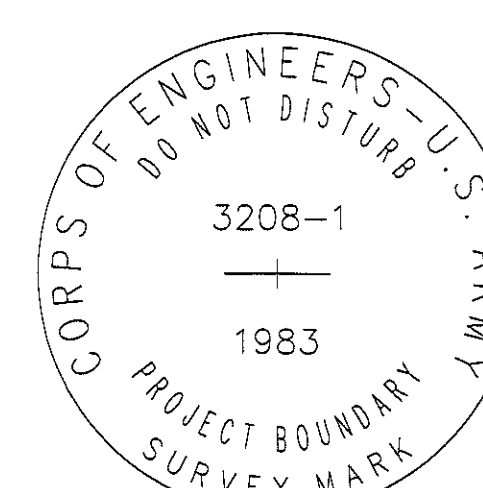
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MONUMENT: 283



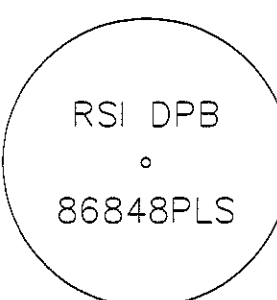
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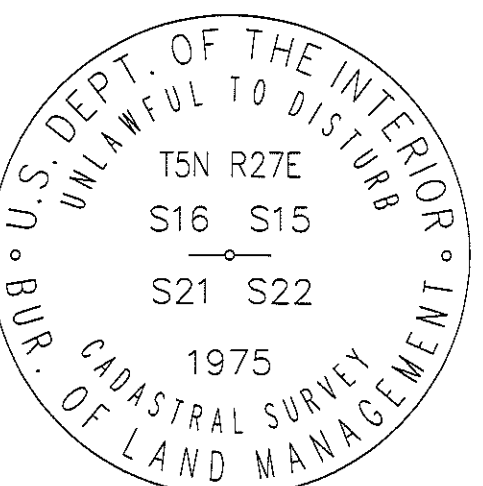
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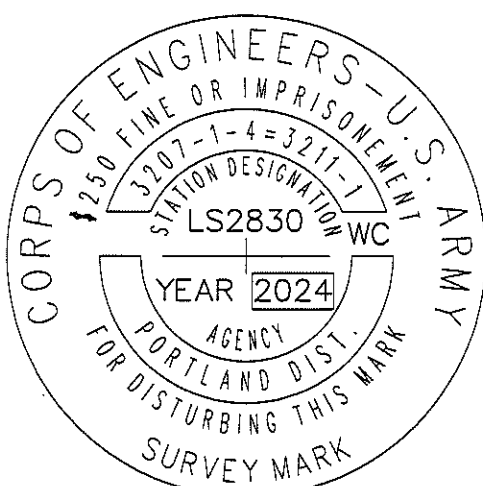
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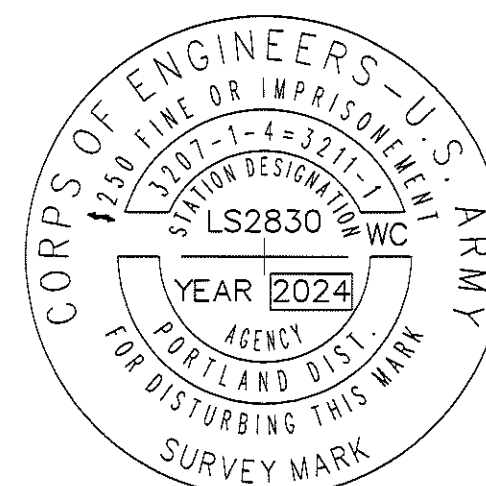
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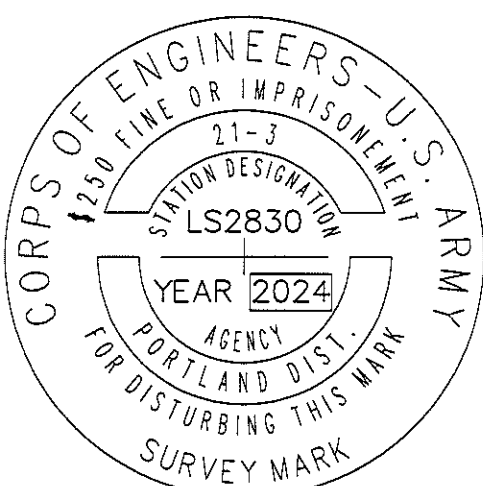
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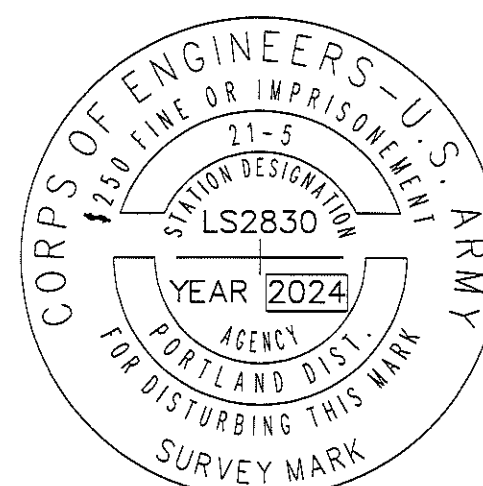
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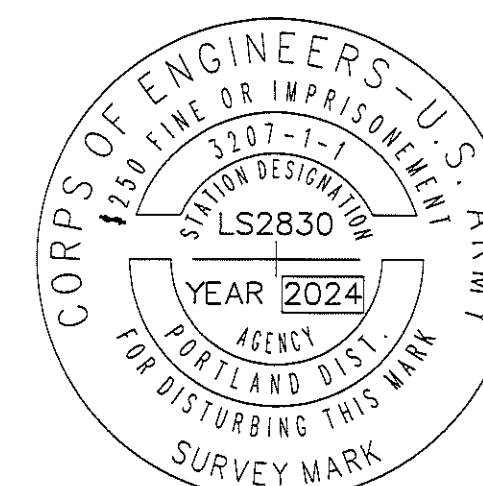
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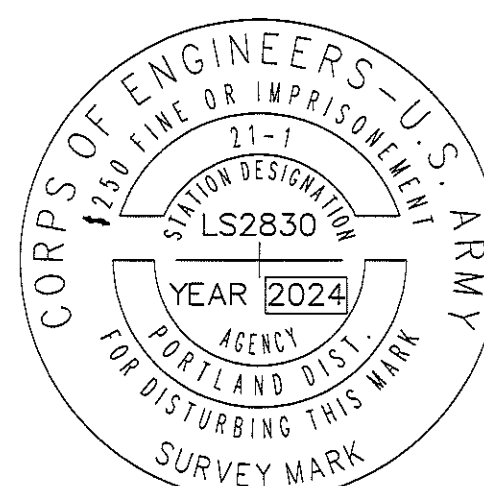
MONUMENT: 289



MONUMENT: 292



MONUMENT: 328



MONUMENT: 329

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