

13 FOOT BFE WAS TAKEN FROM FEMA MAP NUMBER 53061C10306, REVISED JUNE 19, 2020

13.00 FOOT CONTOUR, NAVD88

copy lot
2
2
2
2

SURVEY NOTES:

1. A 13.00 FOOT BFE IS SHOWN AND FEMA PANEL NO. 53061C10306 WAS USED TO DETERMINE THE LOCATION OF THE 13.00 FOOT BFE. THE BFE IS SHOWN AS A RED LINE ON THIS DRAWING. THE BFE IS TAKEN FROM FEMA MAP NUMBER 53061C10306, REVISED JUNE 19, 2020.
2. THIS SURVEY EXCEEDS THE MINIMUM REQUIRED SURVEY PRECISION FOR THIS PROJECT AS SET FORTH BY WAC 352-120-004.
3. ALL MONUMENTS WERE VERIFIED IN JUNE 2021.
4. CORNER HIGH WATER MARK IS APPROXIMATE AND WAS LOCATED BY GPS IN JUNE 2021.
5. THE SURVEY WAS CONDUCTED IN JUNE 2021. THE SURVEY WAS CONDUCTED BY DAVID EVANS AND ASSOCIATES, INC. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT AND THE RULES AND REGULATIONS OF THE BOARD OF SURVEYING AND MAPPING. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT AND THE RULES AND REGULATIONS OF THE BOARD OF SURVEYING AND MAPPING.
6. ABOVE-GROUND UTILITIES (ELECTRIC, TELEPHONE, GAS, WATER, SEWER, ETC.) WERE LOCATED BY GROUND PENETRATING RADAR (GPR) AND VISUAL SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT AND THE RULES AND REGULATIONS OF THE BOARD OF SURVEYING AND MAPPING.
7. CONTIGUOUS SURVEY AREAS ARE SHOWN WITH DATA DATED IN FEBRUARY 2021 BY WILSON CRENSHAW CONSULTING, INC.

DATE: AUGUST 2021

DAVID EVANS AND ASSOCIATES, INC.
1620 W. Marine View Dr, Suite 200
Everett, Washington 98201
Phone: 425.259.4099

EXHIBIT # 12
PAGE 1 OF 2

DATUM NOTES:

VERTICAL DATUM: NAVD88
HORIZONTAL DATUM: NAD83
ELEVATION: NAVD88
VERTICAL CURVATURE: 0.11 INCHES PER FOOT
REFRACTION: 0.17 INCHES PER FOOT
TIDAL CORRECTION: 0.11 FEET PER FOOT
SLOPE CORRECTION: 0.001 FEET PER FOOT
WIND CORRECTION: 0.001 FEET PER FOOT
TEMPERATURE CORRECTION: 0.001 FEET PER FOOT
PRESSURE CORRECTION: 0.001 FEET PER FOOT
ROTATION CORRECTION: 0.001 FEET PER FOOT
SCALE CORRECTION: 0.001 FEET PER FOOT
OTHER CORRECTIONS: 0.001 FEET PER FOOT

REFERENCES:

- 1. SURVEYING ACT, CHAPTER 90A RCW
- 2. RULES AND REGULATIONS OF THE BOARD OF SURVEYING AND MAPPING, WAC 352-120-004
- 3. FEDERAL MAGNETIC DECLINATION DATA, NATIONAL MAGNETIC DECLINATION DATA CENTER
- 4. FEDERAL GRAVITY DATA, NATIONAL GRAVITY DATA CENTER
- 5. FEDERAL TIDAL DATA, NATIONAL TIDAL DATA CENTER
- 6. FEDERAL TEMPERATURE AND PRESSURE DATA, NATIONAL TEMPERATURE AND PRESSURE DATA CENTER
- 7. FEDERAL ROTATION DATA, NATIONAL ROTATION DATA CENTER
- 8. FEDERAL SCALE DATA, NATIONAL SCALE DATA CENTER
- 9. FEDERAL OTHER CORRECTIONS DATA, NATIONAL OTHER CORRECTIONS DATA CENTER

13

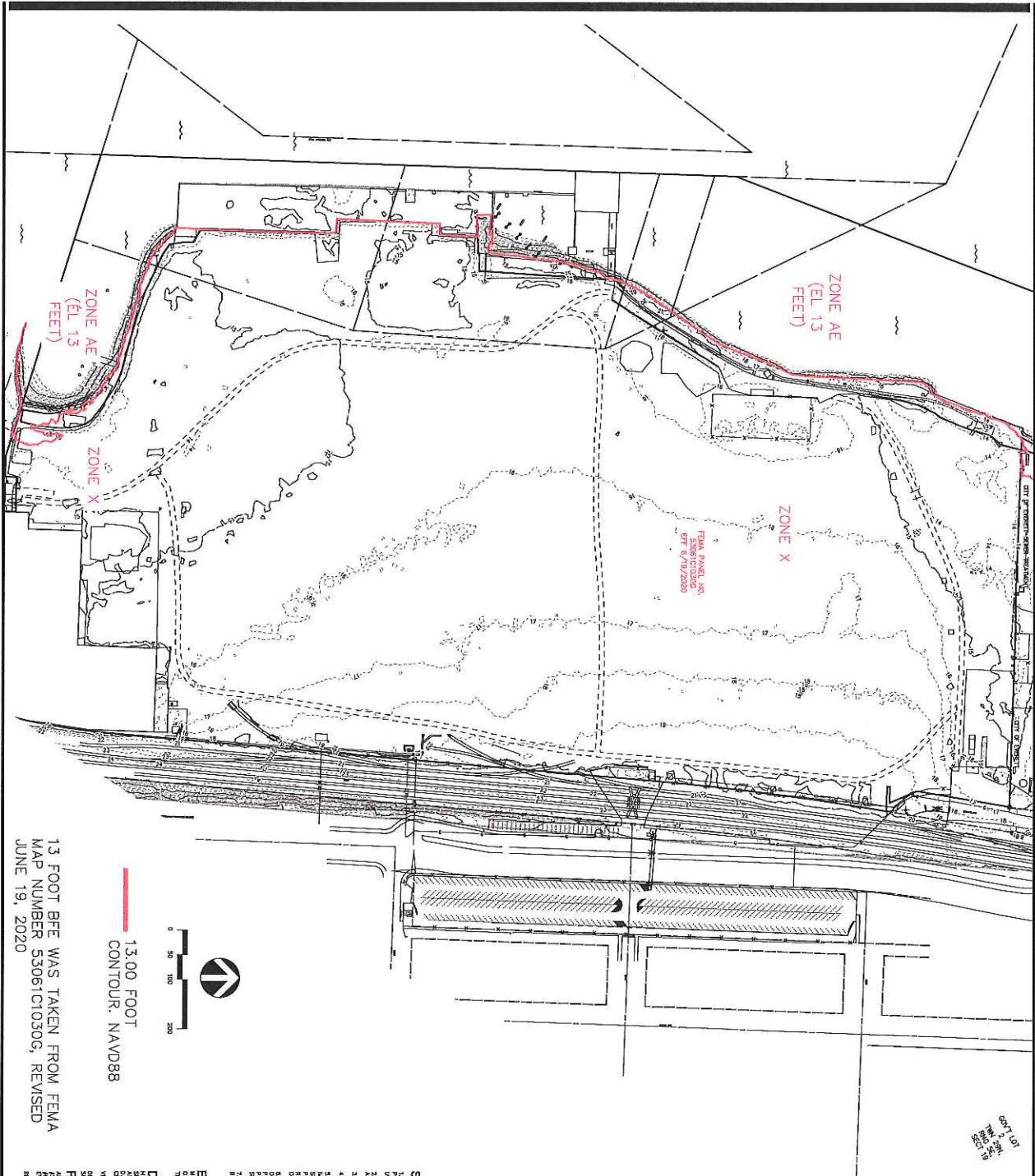
DATE: AUGUST 2021
DRAWN BY: [REDACTED]
CHECKED BY: [REDACTED]
PROJECT NUMBER: KPF5074
DRAWING TITLE: 13 FOOT BFE

REVISIONS:	APPR.
DATE: 08/19/2021	DATE: 08/19/2021
BY: [REDACTED]	BY: [REDACTED]
DATE: 08/19/2021	DATE: 08/19/2021
BY: [REDACTED]	BY: [REDACTED]
DATE: 08/19/2021	DATE: 08/19/2021

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TOPOGRAPHIC SURVEY
FLOODZONE BOUNDARY
MIE DESIGN SUPPORT
KPF CONSULTING ENGINEERS
EVERETT, WA



13.00 FOOT
CONTOUR, NAVD88

13 FOOT BFE WAS TAKEN FROM FEMA
MAP NUMBER 53061C1030G, REVISED
JUNE 19, 2020

cont 1 of 1
13.00 Foot
Contour

EXHIBIT # 12
PAGE 2 OF 2

SURVEY NOTES:

1. A LEICA TOTAL STATION AND LEICA SCIA+ GPS RECEIVER WERE USED TO PERFORM THIS SURVEY. TOPOGRAPHIC READINGS WERE PERFORMED ON FEBRUARY 2, 3, 4, 2021.
2. THE SURVEY CONTROL WAS PROVIDED BY THE ADJACENT PUBLIC ROAD SURVEY AS SET FORTH BY WAC 220-120-000.
3. ALL MONUMENTS WERE VISITED IN JUNE 2021.
4. BOUNDARY HIGH WATER MARK IS APPROXIMATE AND WAS LOCATED BY SEA IN JUNE 2021.
5. THIS DRAWING IS A COMPONENT OF A SURVEY PERFORMED IN 2021 (PROJECT NO. 21-001) FOR THE PURPOSE OF DETERMINING THE FLOOD ZONE BOUNDARY FOR THE PROJECT. THE SURVEY WAS PERFORMED IN 2021, JUNE, AND SEVEN INSTRUMENT READINGS WERE TAKEN ON THE SURVEY. THE SURVEY WAS PERFORMED IN 2021, JUNE, AND SEVEN INSTRUMENT READINGS WERE TAKEN ON THE SURVEY. THE SURVEY WAS PERFORMED IN 2021, JUNE, AND SEVEN INSTRUMENT READINGS WERE TAKEN ON THE SURVEY.
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9. THE SURVEY WAS PERFORMED IN 2021, JUNE, AND SEVEN INSTRUMENT READINGS WERE TAKEN ON THE SURVEY. THE SURVEY WAS PERFORMED IN 2021, JUNE, AND SEVEN INSTRUMENT READINGS WERE TAKEN ON THE SURVEY.
10. THE SURVEY WAS PERFORMED IN 2021, JUNE, AND SEVEN INSTRUMENT READINGS WERE TAKEN ON THE SURVEY. THE SURVEY WAS PERFORMED IN 2021, JUNE, AND SEVEN INSTRUMENT READINGS WERE TAKEN ON THE SURVEY.

DATE: AUGUST 2021

DESKTOP:

REVISION:

SCALE: 1"=100'

PROJECT NUMBER: KPF-3074

DYNAMIC FILE:

SHEET NO.: 1

OF 1

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TOPOGRAPHIC SURVEY
FLOODZONE BOUNDARY
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EVERETT, WA