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March 10, 2015

VIA HAND DELIVERY

Stephanie Holtey
City of Central Point
Community Planner II
140 South 3rd Street
Central Point, Oregon 97502

RE: Floodplain Development Permit Application
37-2W-03BD Tax Lots 1100, 1200, 1400, 1500, 1700, 1800, 1900, 2000, 2300, 2400, 2500, 2600, 2900, 3000, 3200, 3201, 3202, 3203, 3400, 3500, 3600, 3700, 3800, 3900, 4000 & 4100
37-2W-03CA Tax Lots 802, 803 & 804
37-2W-03CA Tax Lot 1200

Dear Ms. Holtey:

Please deem the above-stated land use application ("the Application") complete as of the date of this correspondence pursuant to CPMC 17.05.600(D)(3)(b)(ii) in that Applicant does not intend to submit additional information. Notwithstanding the foregoing, please do not hesitate to contact me if you have any questions, comments or concerns regarding the Application. Your attention to this matter is greatly appreciated.

Yours truly,

HUYCKE O'CONNOR JARVIS, LLP

DANIEL O'CONNOR

DOC:sch
cc: Client

CENTRAL POINT

Floodplain Development Permit Application

OFFICE USE ONLY

☐ *EC* ☐ *No-Rise* ☐ *CLOMR* ☐ *Attachments*
☐ *Approved* ☐ *Denied* ☐ *Subject to COA*

Instructions: Complete all unhighlighted sections of this application form to provide a complete understanding of your development proposal. Highlighted sections are for office use only. Please incude attachments to help clarify your proposal. These may include a site plan, elevation drawings, detailed drawings and photographs. Refer to the application checklist for a complete list of required supporting documentation. Incomplete applications will not be accepted. Contact the Floodplain Coordinator at 541.664.7602, Ext. 244 if you have any questions.

PROPERTY INFORMATION

SITE ADDRESS: See attached.	*Map and Taxlot #:* See Exhibit "A" *FIRM Map & Panel No.: 41029C*
Flood Zone: ☐ *Floodway* *BFE:* *ft. NAVD88*	*Base Depth:* *ft.* *Minimum DFE:*

OWNER & APPLICANT INFORMATION

OWNER NAME: Twin Creeks Development Co., LLC and John A. Duke Trust	APPLICANT/AGENT NAME: Daniel B. O'Connor
MAILING ADDRESS: P.O. Box 3577, Central Point, OR 97502	MAILING ADDRESS: 823 Alder Creek Drive, Medford, OR 97504
PHONE: 541-778-1560 E-MAIL:	PHONE: 541-772-1977 E-MAIL: dano@medfordlaw.net

PROJECT DESCRIPTION

STRUCTURAL DEVELOPMENT PROJECT INFORMATION

Type of Use (Check one):

- ☑ Residential
- ☐ Mixed Use (residential and non-residential)
- ☐ Non-residential (commercial, accessory)
- ☐ Elevated
- ☐ Floodproofed (attach certification)
- ☐ Manufactured Home
- ☐ Located on individual lot
- ☐ Located in manufactured home park

Type of Activity (Check one):

- ☑ New structure
- ☐ Replacement of existing structure
- ☐ Relocation of existing structure[1]
- ☐ Addition to existing structure[2]
- ☐ Remodel to existing structure[2]

[1] Relocated structures are treated as new construction
[2] Additions and remodels that exceed 50% of the market value of the existing structure are a substantial improvement, which requires full compliance with Ch. 8.24. Improvements are counted cumulatively over a 10-year period.

Additions & Remodel Information:

1. Year Built: N/A
2. Existing Bldg. Valuation: $
   Source:
3. Proposed Const. Cost: $
   Source:

4(a). Addition Type:
☐ Vertical
☐ Lateral

4(b). If Lateral Addition, is it structurally connected? ☐ Yes ☐ No

Other Structural Project Information:

1. Lowest habitable floor elevation:_____ feet, NAVD 88
2. Garage Slab Elevation: _____feet, NAVD 88
3. Area of enclosed area below the BFE: _____ sq ft.
4. No. proposed flood openings:_____; Total Area: _____ sq ft

NON-STRUCTURAL PROJECT INFORMATION

Check all the proposed non-structural development activities associated with your project, as provided below.

☐ Tree, vegetation and/or debris removal	☐ Bridge or culvert replacement
☑ Excavation Qty (cu yards): TBD	☐ Stream bank stabilization
☑ Fill placement Qty (cu. yards): TBD	☐ Watercourse alteration
☑ Grading (attach project grading plan)	☑ Subdivision with improvements in the SFHA
☐ Fence or wall construction	☐ Capital Imrovement Project
☐ Swimming pool installation	☐ Other:

SIGNATURE

By signing below, I agree to the terms and conditions of this permit and certify to the best of my knowledge the information contained in this application is complete, true and accurate.

(PRINTED name)	(SIGNED name)	(Date)
Daniel B. O'Connor, Attorney for Applicant		3/10/15
(PRINTED name)	(SIGNED name)	(Date)

Updated 1/13/2012

TYPE 3 APPLICATION SUPPLEMENTAL FINDINGS
NO-RISE DETERMINATION – FLOODWAY DEVELOPMENT

A. Proposal.

Twin Creeks Development Co., LLC, an Oregon limited liability company, is the owner of certain real property located in Central Point, Oregon, and commonly known as Township 37 South, Range 2 West, Section 03BD, Tax Lots 1200, 1700, 2000, 2300, 2600, 2900, 3200, 3201, 3202, 3203, 3500, 3600, 3700, 3800, 3900, 4000 and 4100, Township 37 South Range 2 West, Section 03CA Tax Lots 802, 803 and 804, and Township 37 South Range 2 West, Section 03CA, Tax Lot 1200 ("Tax Lot 1200") (collectively, "the Twin Creeks property"). John and Marilyn Duke, as Trustees of the John A. Duke Trust, are the owners of the certain real property located in Central Point, Oregon, and commonly known as Township 37 South, Range 2 West, Section 03BD, Tax Lots 1100, 1400, 1500, 1800, 1900, 2400, 2500, 3000 and 3400 ("the Duke property"). Twin Creeks Development Co., LLC, and John and Marilyn Duke, as Trustees of the John A. Duke Trust, shall be collectively referred to herein as "Applicants". For the purposes of these supplemental findings, the Duke property and the Twin Creeks property shall be collectively referred to herein as "the parcels" or "the subject property". The purpose of this land use application is to obtain floodplain development permits to allow for the construction of single family dwellings on each of the parcels and the construction of independent living cottages on Tax Lot 1200 ("the Application"). No other development is being proposed in conjunction with the Application.

B. Schedule of Exhibits.

The following Exhibits have been submitted in support of this Application and by this reference are incorporated herein:

EXHIBIT "A":	**CLOMR Maps**
EXHIBIT "B":	**Assessor's Maps**
EXHIBIT "C":	**No-Rise Analysis**
EXHIBIT "D":	**Firm Panel 1768F**

C. Background.

The subject property, excluding Tax Lot 1200, consists of 29 parcels zoned High Mixed Residential/Commercial/Commercial (TOD), designated for single family development. Tax Lot 2800 is also zoned High Mixed Residential/Commercial/Commercial (TOD) and is designated for the construction of independent living cottages. A substantial portion of each of the parcels, excluding Tax Lot 1200, is located within the currently designated Floodway. Only the extreme southeastern corner of Tax Lot 1200 is located within the Floodway with the remainder of the property being located within the currently designated 100-year Floodplain.

Applicants obtained a Conditional Letter of Map Revision (CLOMR) from the Federal Emergency Management Agency (FEMA) on October 3, 2014 ("the CLOMR"). A map

depicting the approved Floodway boundary revision pursuant to the CLOMR is attached hereto as **Exhibit "A"** ("the CLOMR Map"). Applicants will obtain a Letter of Map Revision (LOMR) from FEMA subsequent to the completion of all work proposed in the CLOMR. All work has been completed except for the installation of large culverts in conjunction with the proposed Twin Creeks Crossing. It is anticipated that the aforementioned culverts will be installed in late spring, 2015. The LOMR application shall be submitted to FEMA subsequent to the installation of the culverts. As the CLOMR Map depicts, all of the subject property will be located outside of the designated Special Flood Hazard Area (SFHA) upon completion of the LOMR.

D. Applicable Criteria.

The standards and criteria that are applicable to this Application are set forth in Sections 8.24.090, 8.24.200 and 8.24.250 of the Central Point Municipal Code (CPMC). Findings addressing the aforementioned standards are set forth as follows:

1. CPMC 8.24.090. Review Procedure. Section 8.24.090 sets forth the requisite procedural review for floodplain development permits. The applicable provisions of CPMC 8.24.090 are as follows:

> *A. A floodplain development permit shall be required prior to initiating development activities in any special flood hazard areas as established in Section 8.24.070. The permit shall be for all improvements or structures (including manufactured homes and fences, as set forth in Sections 8.24.050, 8.24.250 and 8.24.260), and for all development including fill and other activities, also set forth in Section 8.24.260. Floodplain development permits shall be subject to the review procedures based on the type of development activity proposed, as set forth below:*
>
> * * * *
>
> *3. Section 17.05.400, Type III procedure (quasi-judicial), applies to floodplain development projects that meet the following criteria:*
>
> *a. Located in the regulatory floodway;*
>
> *b. Increases BFE more than one foot;*
>
> *c. Causes any rise in the regulatory floodway;*
>
> *d. Bridge and culvert replacement projects that are not deemed to be a public emergency as provided in subsection (A)(1)(d) of this section;*
>
> *e. Any bank stabilization that uses methods other than vegetative plantings to achieve shoreline stabilization and safety;*
>
> *f. Requires a conditional letter of map revision (CLOMR) and/or letter of map revision (LOMR) pursuant to Section 8.24.170(A) and (B); and*

g. Requests a variance to the provisions of this chapter. CPMC 8.24.090(A)(3).

Applicants' Findings: The subject property is located within the currently designated Floodway. Consequently, Applicants acknowledge that this Application is subject to a Type III review.

2. CPMC 8.24.200. Development in regulatory floodways. The proposed development within the designated Floodway is subject to the standards set forth in CPMC 8.24.200(A), (B) and (C), which are set forth as follows:

> *A. Except as provided in subsections E and F of this section, encroachments including fill, new construction, substantial improvements, and other development are prohibited unless certification by a registered professional civil engineer is provided demonstrating through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that such encroachment shall not result in any increase in flood levels during the occurrence of the base flood discharge.* CPMC 8.24.200(A).

Applicants' Findings: A No-Rise Analysis dated February 26, 2015, and prepared by Peter Brooks, an Oregon registered professional engineer with Northwest Hydraulic Consultants is attached hereto as **Exhibit "C"** ("the No-Rise"). The No-Rise analysis is based upon current ground conditions including as-built topographic data of the recently constructed flood swale (*See* **Exhibit "A"**). The No-Rise states in part as follows:

> Results of the analysis show that construction of the flood swale has mitigated for any potential rise associated with development in the Twin Creeks Crossing Phases I, II and III (includes the subject property). No-Rise, Pg. 2 (explanation added).

The above-cited conclusion is based on the fact that all work in conjunction with the CLOMR has been completed excepting the installation of the culverts. Thus, the subject property would be located outside of the Special Flood Hazard Area (SFHA) based on current ground conditions. Consequently, new construction and/or other substantial improvements on the subject property will have no impact on flood levels because the subject property is effectively outside the SFHA.

> *B. Provided that the conditions in subsection A of this section are met, the following additional provisions shall apply:*
>
> *1. Floodplain development construction standards provided in Sections 8.24.250 and 8.24.260 are met;*
>
> *2. Any fill allowed to be placed in the floodway shall be designed to be stable under conditions of flooding, including rapid rise and rapid drawdown of floodwaters, prolonged inundation, and flood related erosion and scour;*
>
> *3. No manufactured dwelling shall be placed in a floodway except in an existing mobile home park or an existing mobile home subdivision, as conditionally*

approved by the local administrator or designee in consideration of the conditions of Section 8.24.250(G). CPMC 8.24.200(B).

Applicants' Findings: Applicants acknowledge and agree that the floodplain development construction development standards will apply to all new construction and standard improvements located within the designated Special Flood Hazard Area (SFHA). In the event any fill is placed in the designated Floodway, it shall be designed to be stable under conditions of flooding, including rapid rise and rapid drawdown of floodwaters, prolonged inundation and flood related erosion and scour. No manufactured dwellings will be located on the subject property.

C. The following activities are prohibited in the regulatory floodway:

1. Fences and walls as provided in Section 8.24.260(A)(1) and 17.57.030; and

2. Accessory structures as provided in Section 8.24.250(I). CPMC 8.24.200(C).

Applicants' Findings: No fences or walls (i.e. masonry walls or retaining walls) shall be constructed within the designated Floodway. Applicants acknowledge that no accessory structures shall be allowed within the designated Floodway.

3. CPMC 8.24.250. Floodplain Development Standards for Construction. CPMC 8.24.250 sets forth specific construction standards for new construction and substantial improvements located within a designated Special Flood Hazard Area (SFHA).

Applicants' Findings: Applicants acknowledge and are in agreement that any new construction and substantial improvements located within a designated SFHA must comply with the construction standards set forth in CPMC 8.24.250. Applicants propose that these standards be imposed as a condition of approval.

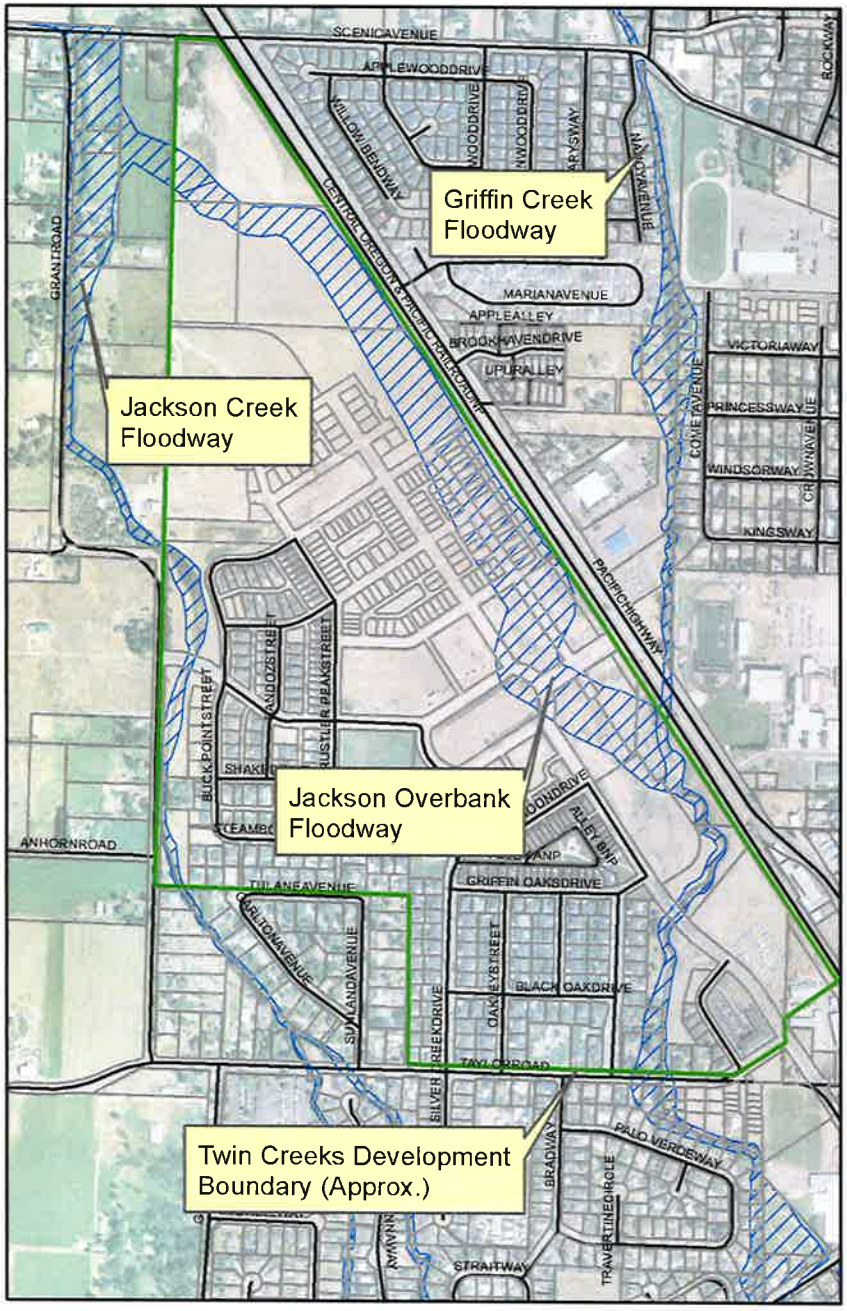
E. Conclusion.

For the reasons set forth above, Applicant respectfully requests that the Floodplain Development Permit application be approved.

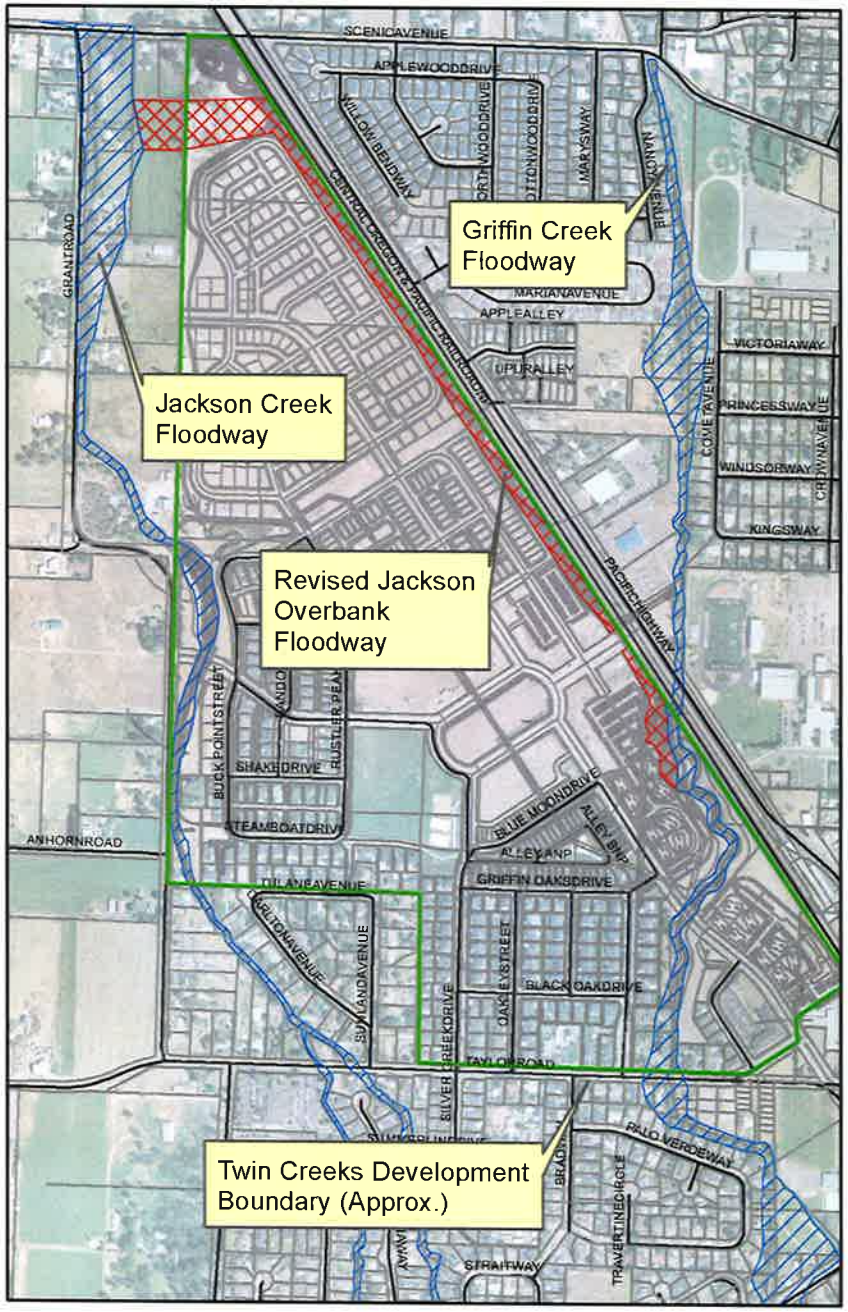
HUYCKE O'CONNOR JARVIS, LLP:

Daniel B. O'Connor, OSB# 950444
Attorney for Applicants

EXHIBIT "A"



Effective FEMA Floodway Mapping



Proposed Floodway Revision (Draft)

N
W E
S

0 500 1,000 2,000 Feet

Note: Flow direction is generally northward.

The reach connecting Griffin and Jackson Creeks within the development is referred to as the 'Jackson Creek Overbank'.

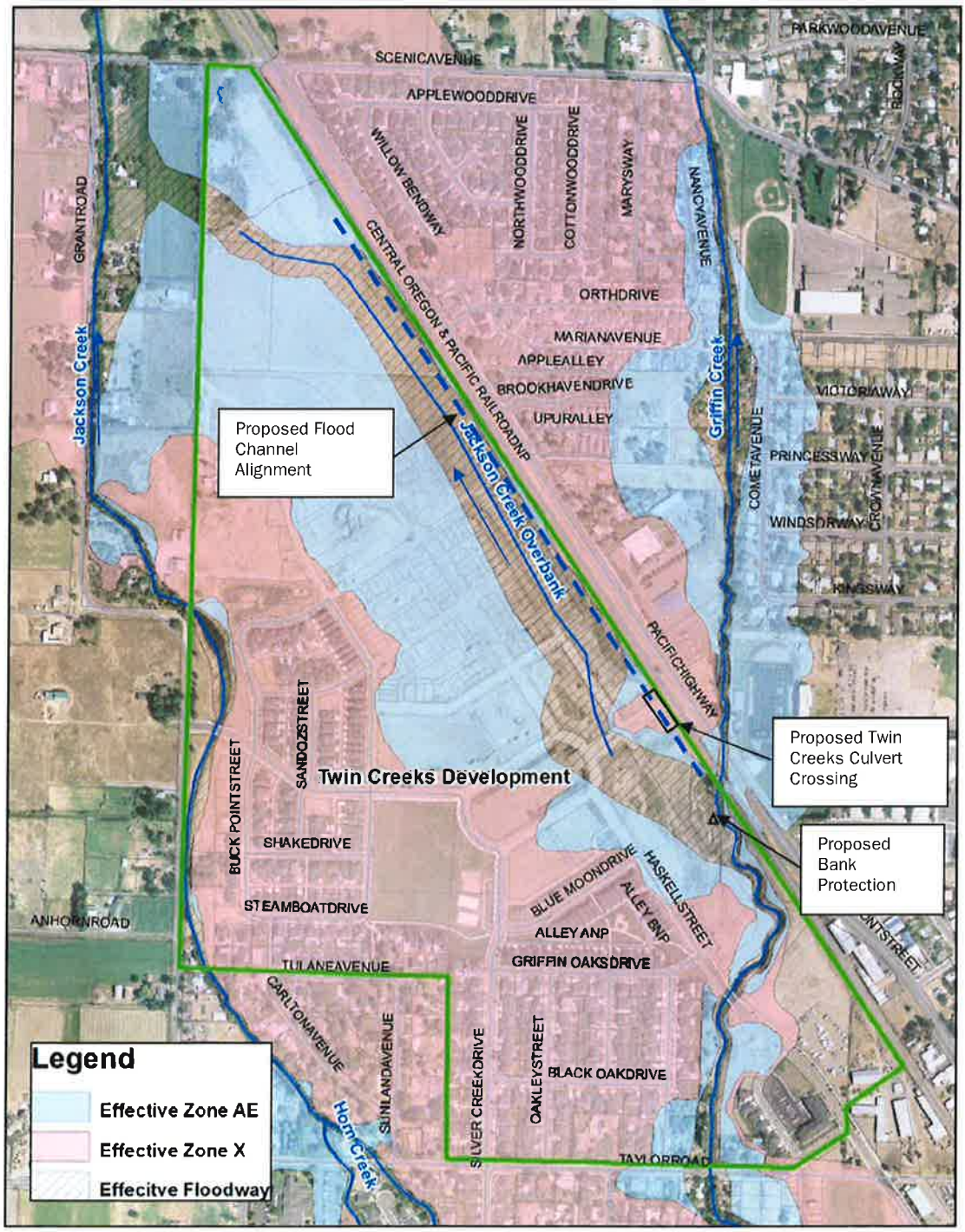
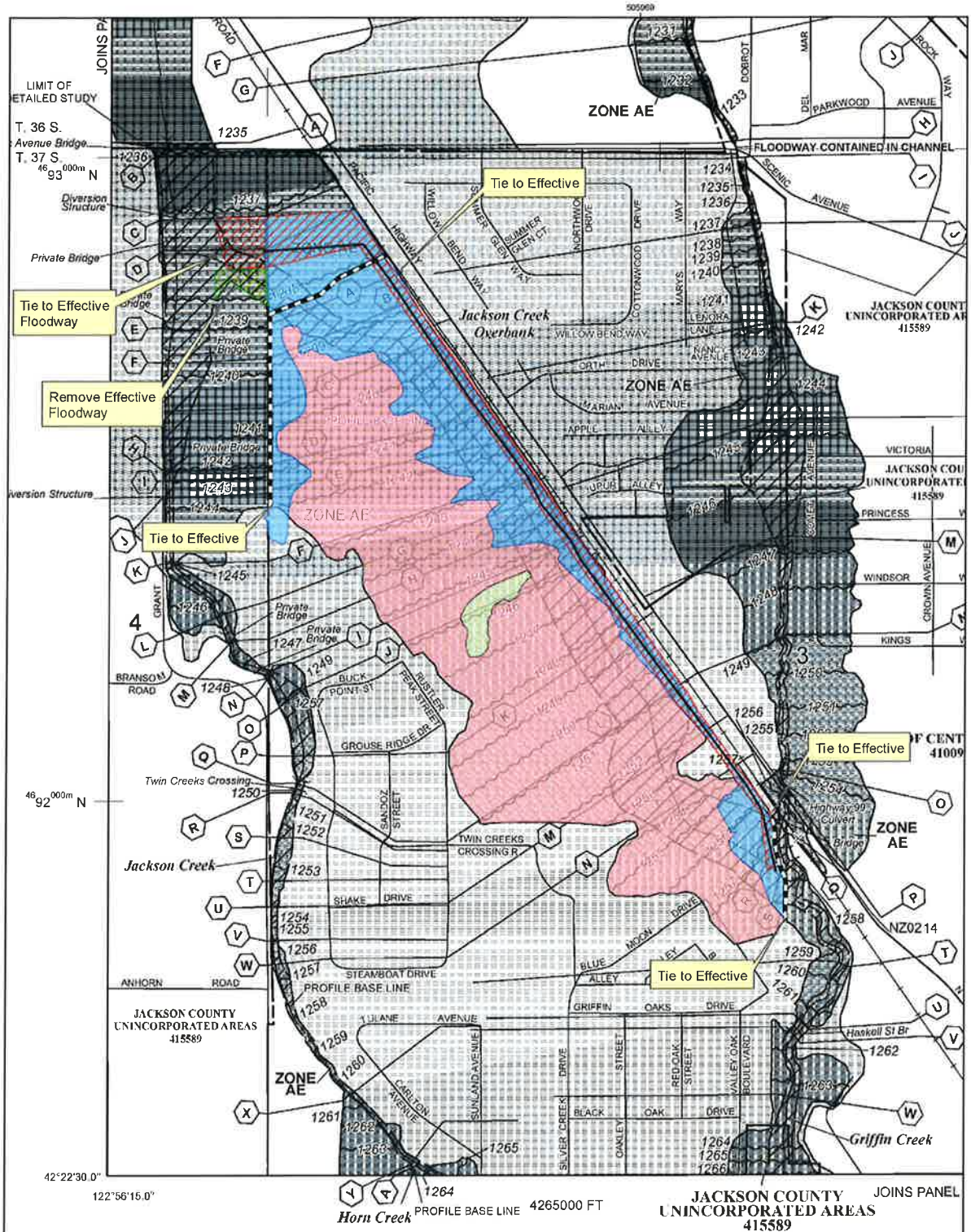


Figure 1 Effective FEMA flood hazard mapping and proposed Twin Creek flood improvement measures.

The effective floodplain mapping between the two study reaches, through the Twin Creeks Development, is broad and unconfined, resulting in a relatively wide floodway delineation. It should be noted that this reach does not receive perennial flow and would function as an overflow channel during



Legend

- Effective Study Breakline
- Revised Jackson Creek Overbank Profile Baseline
- Revised Floodway
- Revised Zone AH
- Revised Zone AE
- Revised Zone X
- Floodway_Removal

Twin Creeks Development CLOMR

Jackson Creek Overbank
Annotated FIRM 41029C 1768F

Scale - 1:6,000

500 250 0 500 Feet

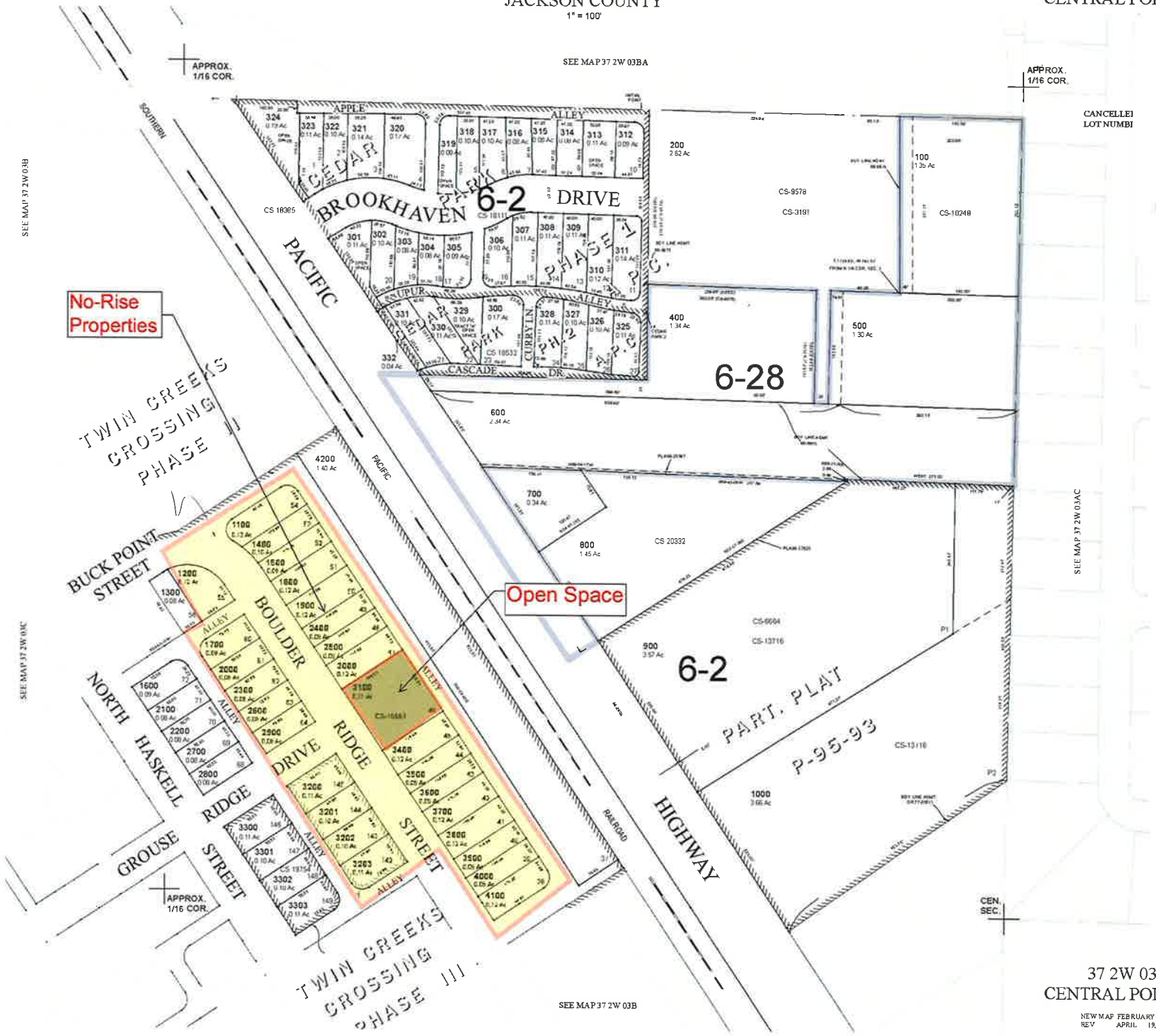
coord. syst.: UTM Zone 10N	horz. datum: NAD 83	horz. units: feet
northwest hydraulic consultants	project no. 200044	27-Jul-2014

FOR ASSESSMENT AND TAXATION ONLY

S.E.1/4, N.W.1/4, SEC.3, T.37S., R.2W., W.M.
JACKSON COUNTY
1" = 100'

37 2W 03BD
CENTRAL POINT

EXHIBIT "B"



37 2W 03BD
CENTRAL POINT

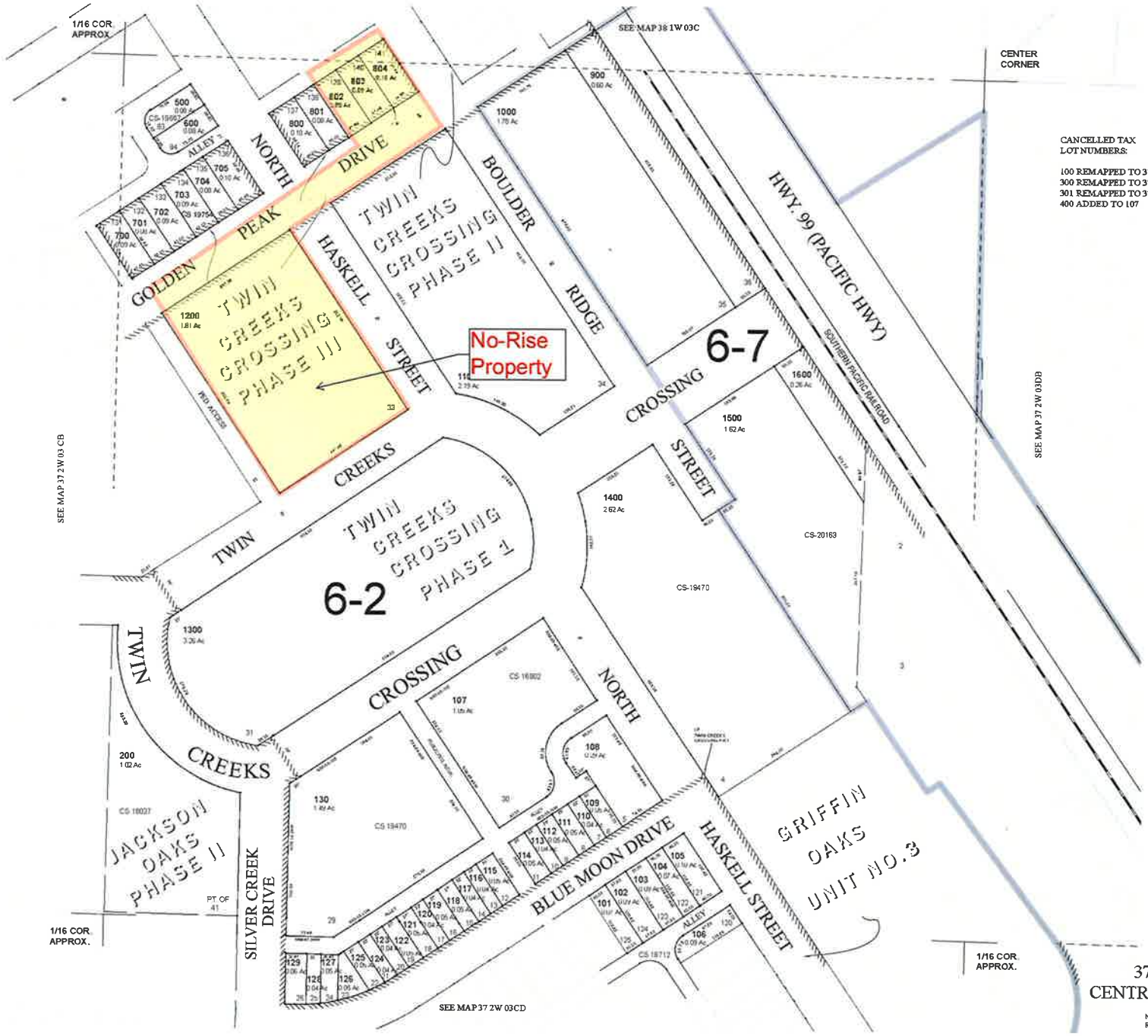
NEW MAP FEBRUARY 19, 2004
REV APRIL 19, 2013

GIS DATA
04/19/2013 11:23:40 AM - JohnsoWhi

FOR ASSESSMENT AND TAXATION ONLY

N.E.1/4, S.W.1/4, SEC.3, T.37S., R.2W., W.M.
JACKSON COUNTY
1" = 100'

37 2W 03CA
CENTRAL POINT



37 2W 03CA
CENTRAL POINT

NEW MAP APRIL 28, 2005
REV JUNE 27, 2013

GIS DATA
08/27/2013 4:15:38 PM : JohnsoWH

16300 Christensen Road, Suite 350 | Seattle, WA 98188 | 206.241.6000 | www.nhcweb.com

nhc
northwest hydraulic consultants

NHC Ref. No. 200044

26 February 2015

Twin Creeks Development Co. LLC
P.O. Box 3577
Central Point, OR
97502

Attention: **Bret Moore**

Via email: bretm@twncrks.com

Re: **Twin Creeks No-Rise Analysis 2015**

Dear Mr. Moore:

As requested, Northwest Hydraulic Consultants (NHC) has completed a "no-rise" analysis for the Twin Creeks Development following the Federal Emergency Management Agency (FEMA) *"Procedures for 'No-Rise' Certification for Proposed Developments in the Regulatory Floodway"*. This analysis confirms that work conducted to to-date within the Twin Creeks Development, as well as the newly proposed work, will not result in an increase to 100-year flood or floodway profiles relative to effective FEMA mapping (FEMA, 2011). The following letter serves as documentation of the no-rise analysis conducted by NHC.

1 TWIN CREEKS NO-RISE ANALYLSIS

1.1 Background

NHC recently completed a FEMA Conditional Letter of Map Revision (CLOMR) for the Twin Creeks Development (NHC, 2014). The CLOMR considered full build-out conditions including construction of a flood swale, culvert crossing at the Twin Creeks crossing, and development of the entire North Village phase of the property based on plans prepared by Whetstone Engineering. The CLOMR proposed realignment of the effective regulatory floodway, primarily based on the proposed construction of the flood swale, while also meeting no-rise criteria. The CLOMR was accepted by FEMA in late 2014.

The current no-rise analysis addresses intermediate conditions and is primarily intended to verify that newly proposed work situated within the effective floodway, but outside the floodway revised by the CLOMR, near the Twin Creeks Crossing will not result in increases to the 100-year flood or floodway profiles.

EXHIBIT "C"

1.2 Hydraulic Analysis

1.2.1 Duplicate Effective Conditions

NHC developed the original HEC-RAS hydraulic models used for effective FEMA flood hazard mapping on Griffin and Jackson Creeks (FEMA, 2011; NHC, 2014). As such, a duplicate effective models were obtained directly from a Technical Support Data Notebook (TSDN) prepared by NHC and submitted to FEMA. Effective models and mapping reflect pre-2008 site conditions.

1.2.2 Revised Conditions

Revised conditions were developed to reflect existing conditions in the development as a whole, as well as proposed re-grading and construction in the effective floodway. As-built topographic data of the recently constructed flood swale was provided to NHC by Farber Surveying on February 14, 2015. General site grading was obtained from Whetstone Engineering on December 18, 2012. Site grading included the Twin Creeks Crossing Phases I, II, and III, as well as Phase 3 of the North Village portions of the development. These revised conditions differ from the 2014 CLOMR analysis in that they do not include Phases 1 and 2 of the North Village. The current no-rise analysis is intended to address proposed development located within the effective floodway, but also located outside the revised floodway presented in the accepted CLOMR, in Twin Creeks Crossing Phase I, II, and III.

A workmap is attached that compares effective and revised contour data and indicates where proposed development within the effective floodway, but outside the revised floodway will occur. Planimetric boundary survey of the Twin Creeks development, provided by Farber Surveying, and cross-section plots comparing effective and revised grading through the development are also attached.

1.3 Results

Results of the analysis show that construction of the flood swale has mitigated for any potential rise associated with development in the Twin Creeks Crossing Phases I, II, and III. This conclusion is summarized in the attached table comparing computed effective and revised floodplain and floodway profiles. A copy of the effective Floodway Data Table (FWDT) is attached, but is considered superseded by the FWDT contained in the accepted CLOMR (NHC, 2014). Effective and revised condition floodplain and floodway mapping are compared on the attached workmap. An Engineering "No-Rise" Certification is also attached.

1.4 References

Federal Emergency Management Agency (FEMA). 2011. Flood Insurance Study, Jackson County, Oregon and Incorporated Areas. Flood Insurance Study Number 41029V000A. May 3.

Northwest Hydraulic Consultants Inc. (NHC). 2014. FEMA Conditional Letter of Map Revision Application for the Twin Creeks Development Project. Prepared for Twin Creeks Development Co. LLC. July 28.

Sincerely,

Northwest Hydraulic Consultants Inc.

Prepared by:

Peter C. Brooks, P.E.
Senior Engineer

ENCLOSURES

cc: Herb Farber, P.L.S. – Farber Surveying (herb@farbersurveying.com)
Matthew Dusenbury, P.E. – Whetstone Engineering (whetstoneengineering@q.com)

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of Oregon.

It is to further certify that the attached technical data supports the fact that proposed Twin Creeks Development, Twin Creeks Crossing Phases 1,2, and 3 will not impact the 100-year flood elevations, floodway elevations and floodway widths on Jackson Creek Overbank at published sections
in the Flood Insurance Study for Jackson County, OR, dated May 3, 2011, and will not impact the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Attached are the following documents that support my findings:

1. Duplicate effective and revised condition HEC-RAS hydraulic models (floodplain and floodway runs) including input and output files
2. Table summarizing computed floodplain and floodway profiles
3. Work map showing contours, floodplain/floodway mapping, and base flood elevations for effective and revised conditions
4. Copy of effective Floodway Data Table
5. Cross-section plots comparing effective and revised conditions
6. Certified planimetric boundary survey of development
7. Printout of output files from effective and revised floodway runs
8. CD containing copies of all digital files

(Signature) 2/26/15 (Date)

SENIOR ENGINEER

(Title)

Northwest Hydraulic Consultants Inc.

16300 Christensen Road, Suite 350

Seattle, WA 98188

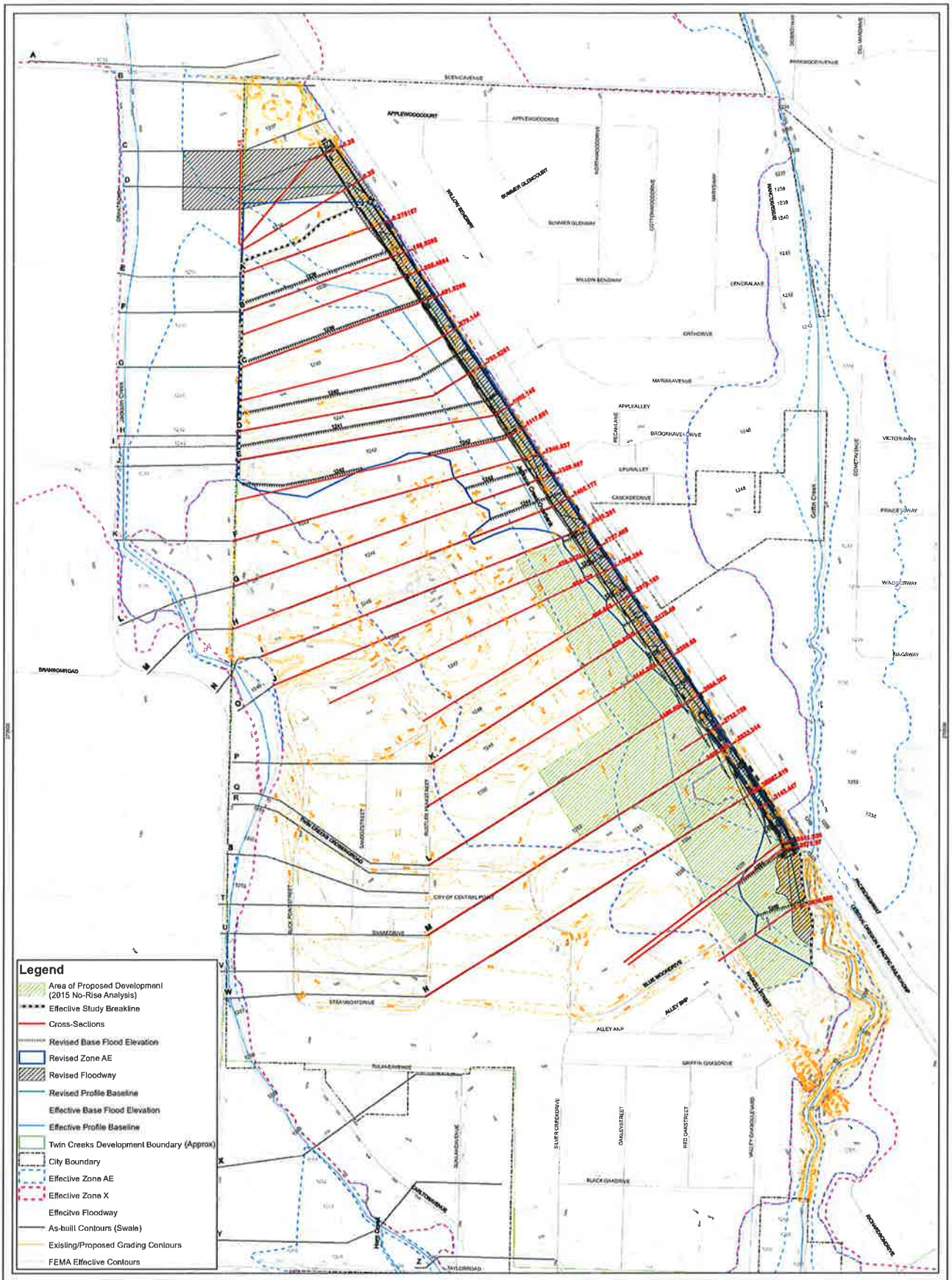
REGISTERED PROFESSIONAL ENGINEER
87092PE
OREGON
NOVEMBER 13, 2012
PETER C. BROOKS

EXPIRES: 12/31/15

Table 1. Comparison of Effective and Revised 100-year Floodplain and Floodway Water Surface Elevations

River Station		100-Year Floodplain			Floodway		
Effective (FEMA Cross-section Letter in parenthesis, where appropriate)	**Revised**	Duplicate Effective Elevation (feet)	Revised Elevation (feet)	Difference (feet)	Duplicate Effective Elevation (feet)	Revised Elevation (feet)	Difference (feet)
-	**0.15**	-	1237.71	-	-	1238.64	-
-	**0.2**	-	1237.74	-	-	1238.65	-
-	**0.25**	-	1237.76	-	-	1238.61	-
793.2 (A)	**0.28**	1238.49*	1237.83	-0.66	1239.18	1238.81	-0.37
951.8 (B)	**160.54**	1238.84*	1238.04	-0.80	1239.60	1239.03	-0.57
-	**265.49**	-	1238.35	-	-	1239.18	-
1188.3 (C)	**401.53**	1239.72	1239.02	-0.70	1240.56	1239.62	-0.94
-	**579.14**	-	1239.38	-	-	1240.11	-
1554.8 (D)	**783.83**	1240.75	1240.49	-0.26	1241.33	1240.96	-0.37
1689.0 (E)	**1002.15**	1241.81	1241.39	-0.42	1242.55	1242.18	-0.37
-	**1117.8**	-	1242.04	-	-	1242.60	-
1966.3 (F)	**1249.04**	1242.82	1242.63	-0.19	1243.76	1243.33	-0.43
2113.1 (G)	**1358.7**	1243.65	1243.37	-0.28	1244.54	1244.08	-0.46
2270.1 (H)	**1495.18**	1244.37	1244.29	-0.08	1245.29	1244.74	-0.55
2422.0 (I)	**1646.26**	1245.25	1244.87	-0.38	1245.97	1245.31	-0.66
2548.0 (J)	**1757.49**	1245.86	1245.46	-0.40	1246.71	1245.69	-1.02
-	**1866.28**	-	1246.28	-	-	1246.41	-
-	**2019.16**	-	1247.39	-	-	1247.53	-
3071.0 (K)	**2178.49**	1248.34	1248.23	-0.11	1249.25	1248.34	-0.91
-	**2350.68**	-	1249.22	-	-	1249.31	-
3454.7 (L)	**2564.28**	1250.99	1250.50	-0.49	1251.94	1250.58	-1.36
-	**2732.76**	-	1251.26	-	-	1251.35	-
3722.3 (M)	**2832.34**	1252.21	1251.59	-0.62	1253.18	1251.68	-1.50
3956.5 (N)	**3067.82**	1254.01	1252.48	-1.53	1254.05	1252.59	-1.46
-	**3143.45**	-	1252.75	-	-	1252.86	-
-	**3341.92**	-	1253.25	-	-	1253.37	-
-	**3370.57**	-	1254	-	-	1254.03	-
-	**3639.01**	-	1255.21	-	-	1256.02	-

***Note: values shown in effective FEMA FWDT are incorrect (NHC, 2014)**



Note: Grading plan contour data provided to NHC by Whetstone Engineering.

Swale as-built survey data provided by Farber Surveying.

Data is shown in NAD 83 Oregon State Plane South horizontal datum and NAVD88 vertical datum.

Effective mapping on workmap from preliminary DFIRM prepared by NHC in 2009.

REGISTERED PROFESSIONAL ENGINEER
OREGON
PETER C. BROOKS

EXPIRES: 12/31/15

Twin Creeks Development No-Rise

Jackson Creek Overbank
Workmap
2015 No-Rise Analysis

Scale - 1:2,400

200 100 0 200 Feet

coord. syst.: OR State Plane South	horz. datum: NAD 83	horz. units: Intl Feet
northwest hydraulic consultants	project no 200044	25 Feb-2015

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Jackson Creek Overbank								
A	390	200	575	2.1	1238.4	1238.4	1239.2	0.8
B	588	200	348	3.5	1238.6	1238.6	1239.6	1.0
C	986	239	674	1.8	1239.7	1239.7	1240.6	0.8
D	1394	224	340	3.6	1240.8	1240.8	1241.3	0.6
E	1592	270	452	2.7	1241.8	1241.8	1242.6	0.7
F	1833	292	403	3.0	1242.8	1242.8	1243.8	0.9
G	1949	264	385	3.2	1243.7	1243.7	1244.5	0.9
H	2091	259	464	2.6	1244.4	1244.4	1245.3	0.9
I	2236	283	398	3.1	1245.3	1245.3	1246.0	0.7
K	2790	351	443	2.8	1248.4	1248.4	1249.3	0.9
L	3172	360	411	3.0	1251.0	1251.0	1251.9	1.0
M	3446	423	632	1.9	1252.2	1252.2	1253.2	1.0
N	3683	310	407	3.0	1254.0	1254.0	1254.1	0.0

[1]Feet above confluence with Jackson Creek

Table 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

JACKSON COUNTY, OR
AND INCORPORATED AREAS

FLOODWAY DATA

JACKSON CREEK OVERBANK

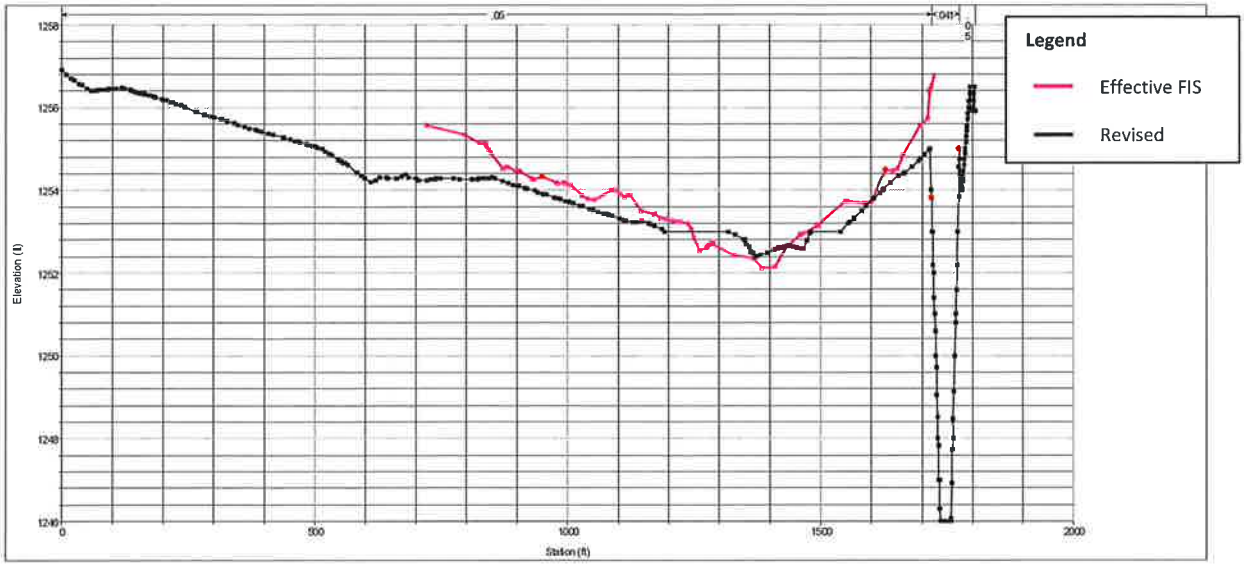


Figure 1. Effective RS 3956.45 (N), Revised RS 3067.82

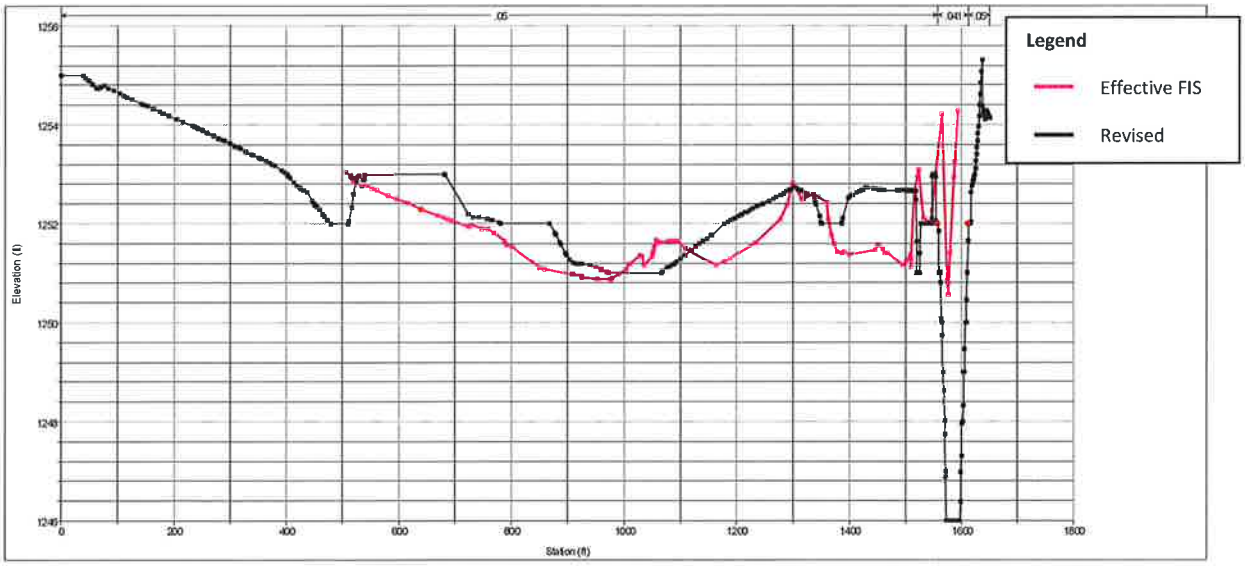


Figure 2. Effective RS 3722.35 (M), Revised RS 2832.34

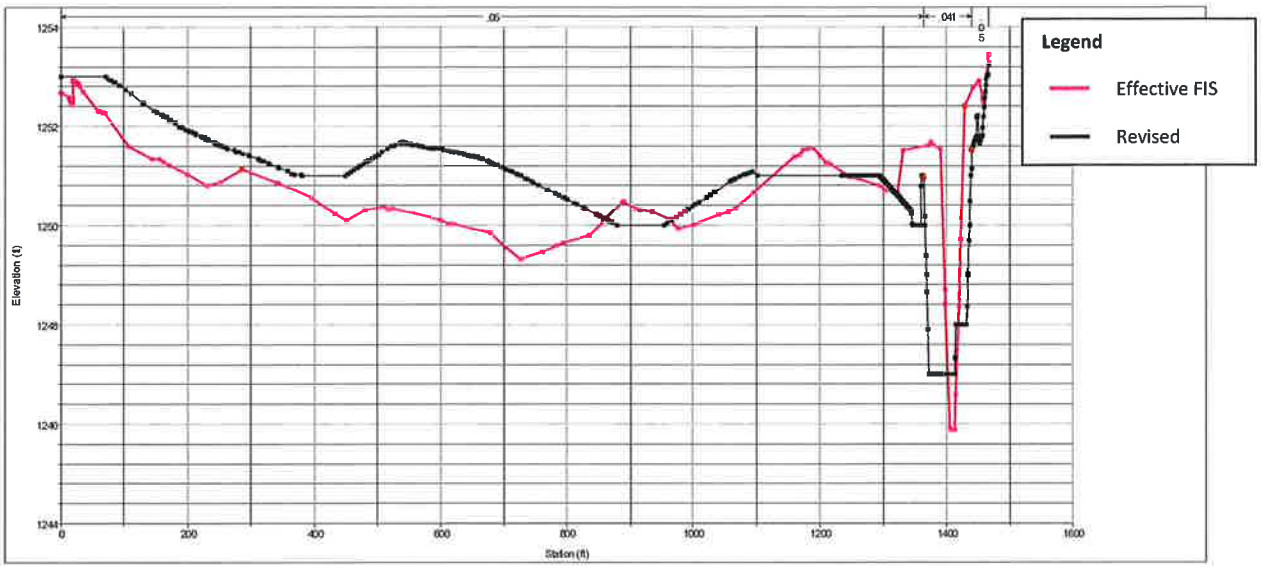


Figure 3. Effective RS 3454.72 (L), Revised RS 2564.28

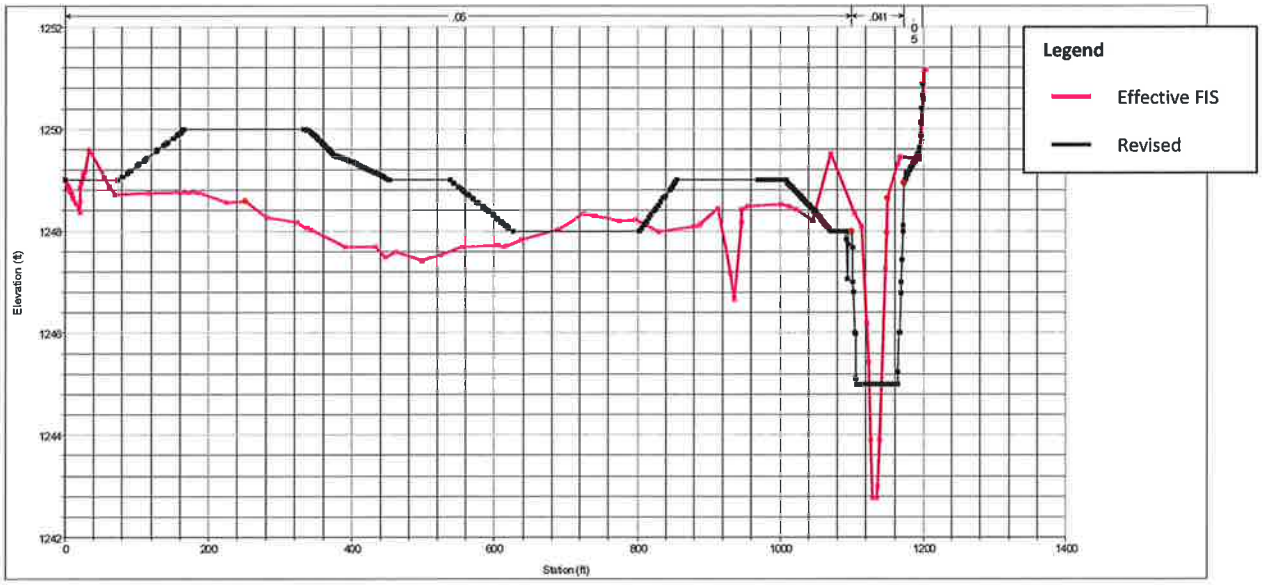


Figure 4. Effective RS 3070.97 (K), Revised RS 2178.49

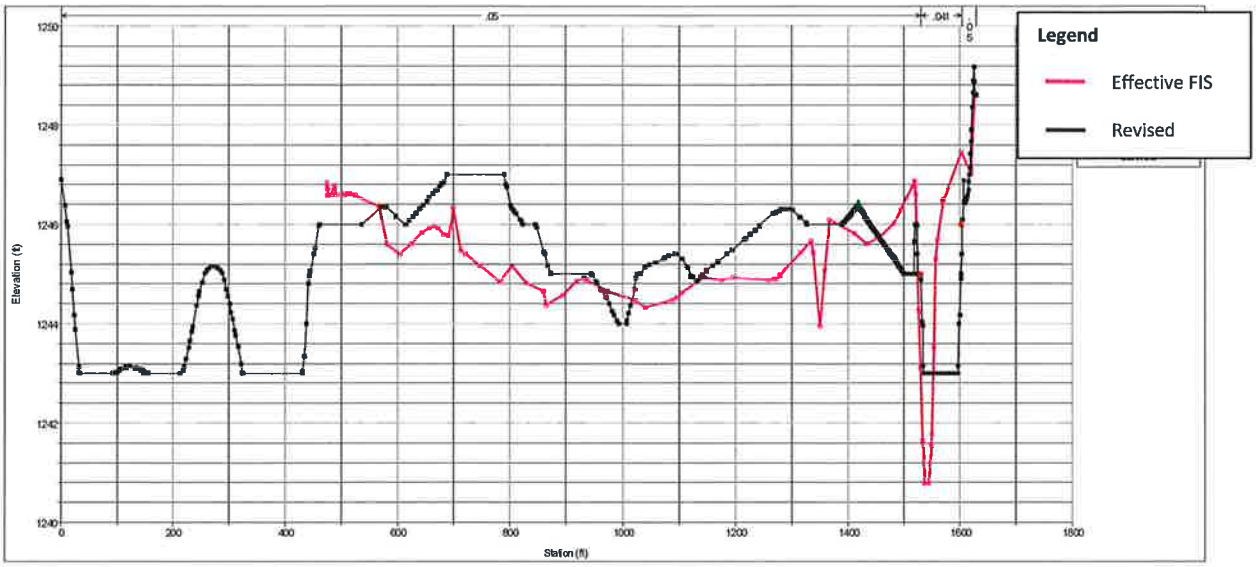


Figure 5. Effective RS 2547.98(J), Revised RS 1757.49

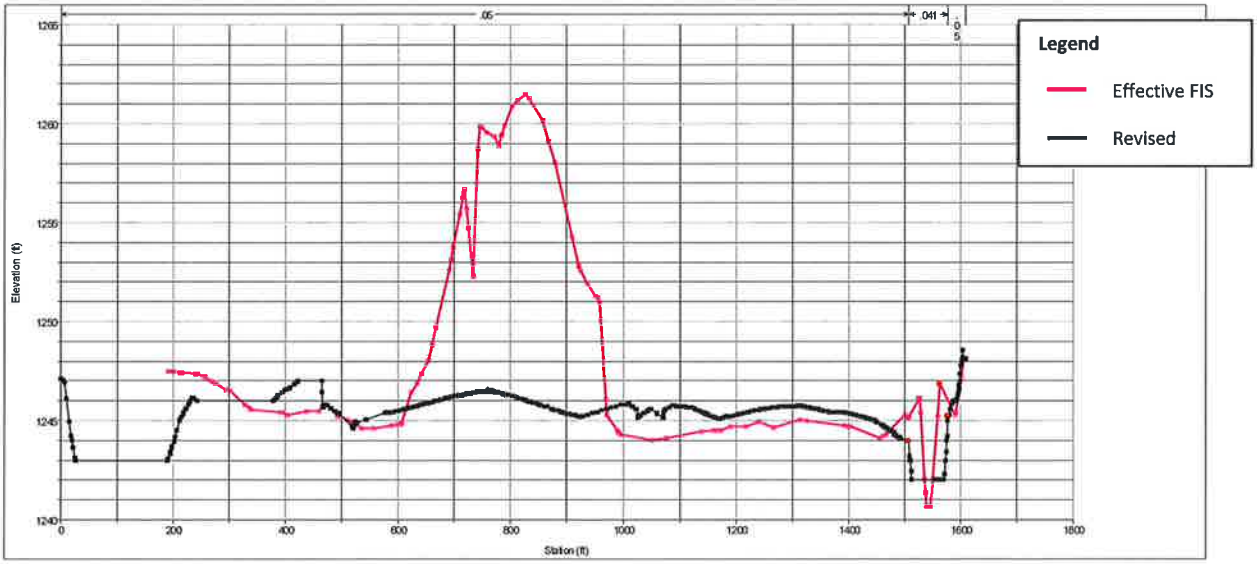


Figure 6. Effective RS 2422.05 (I), Revised RS 1646.26

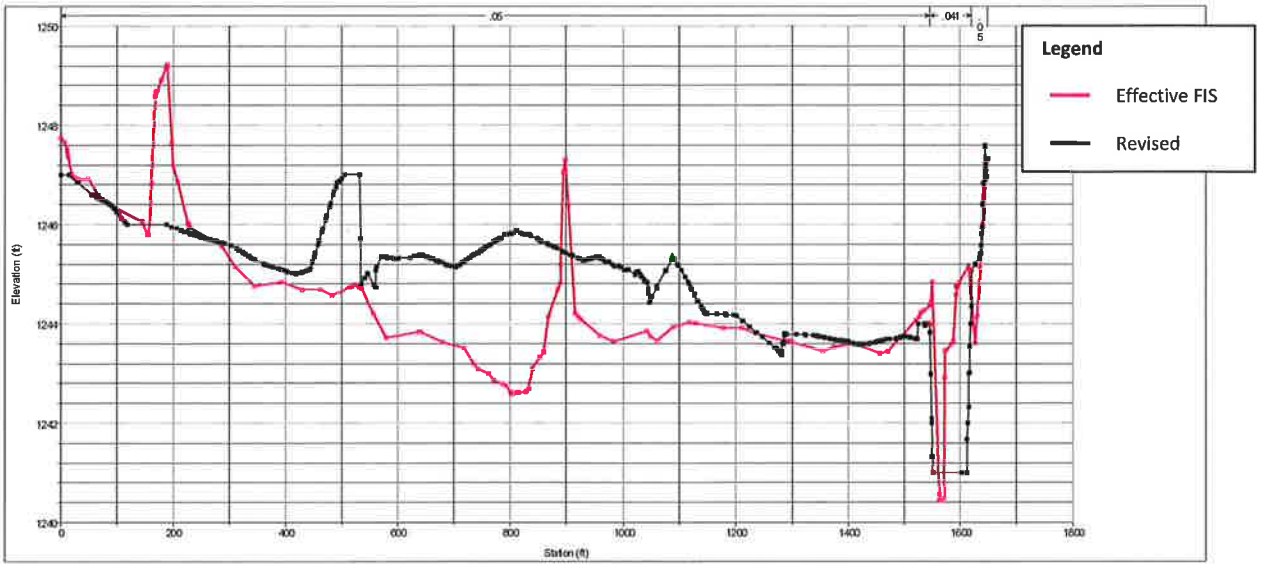


Figure 7. Effective RS 2279.06 (H), Revised RS 1495.18

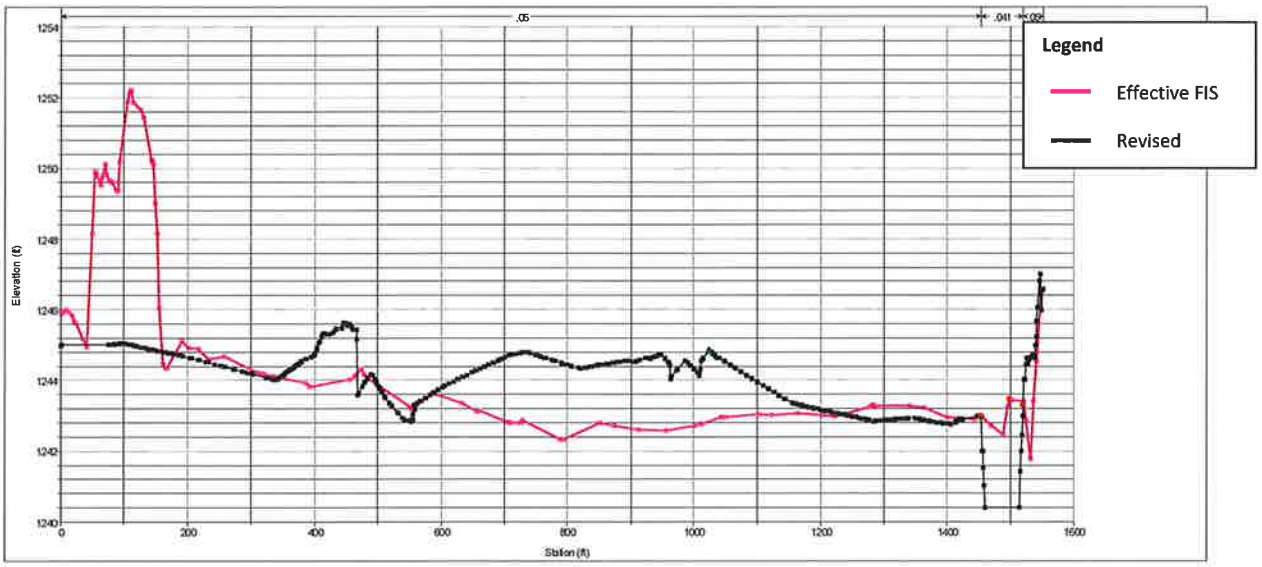


Figure 8. Effective RS 2113.14 (G), Revised RS 1358.70

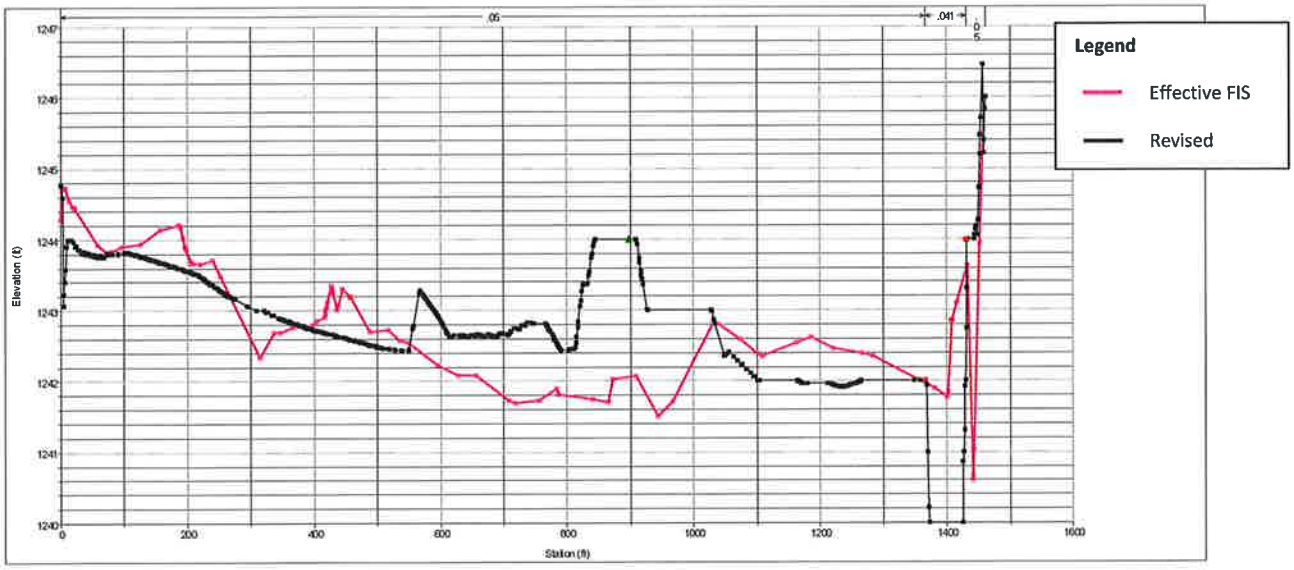


Figure 9. Effective RS 1966.35(F), Revised RS 1249.04

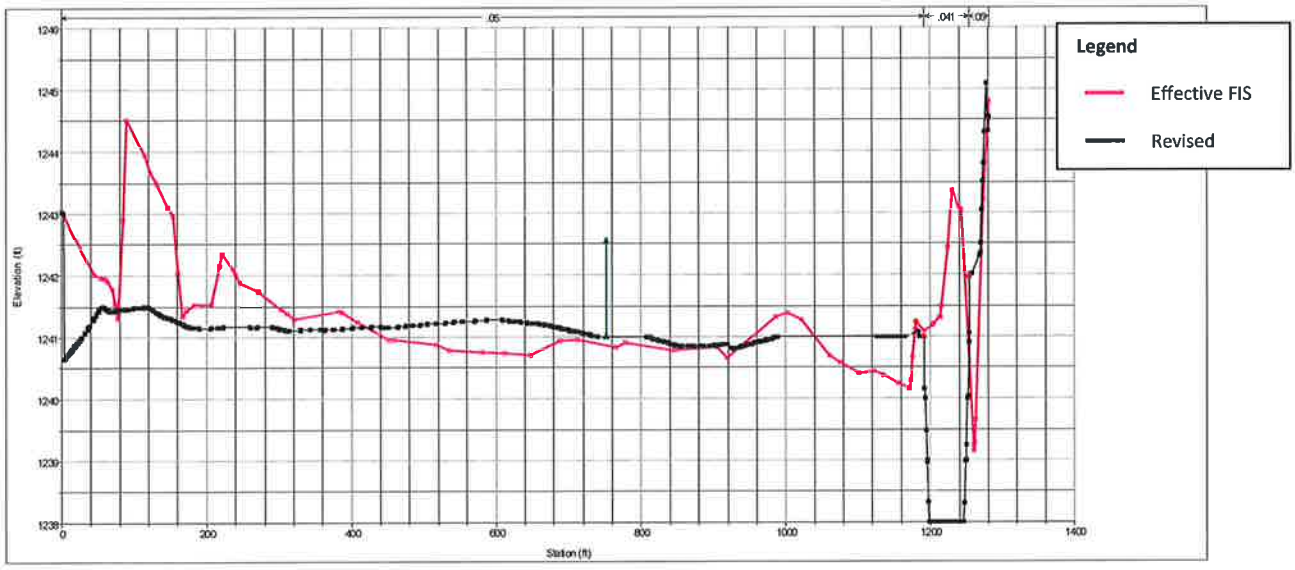


Figure 10. Effective RS 1689.04 (E), Revised RS 1002.15

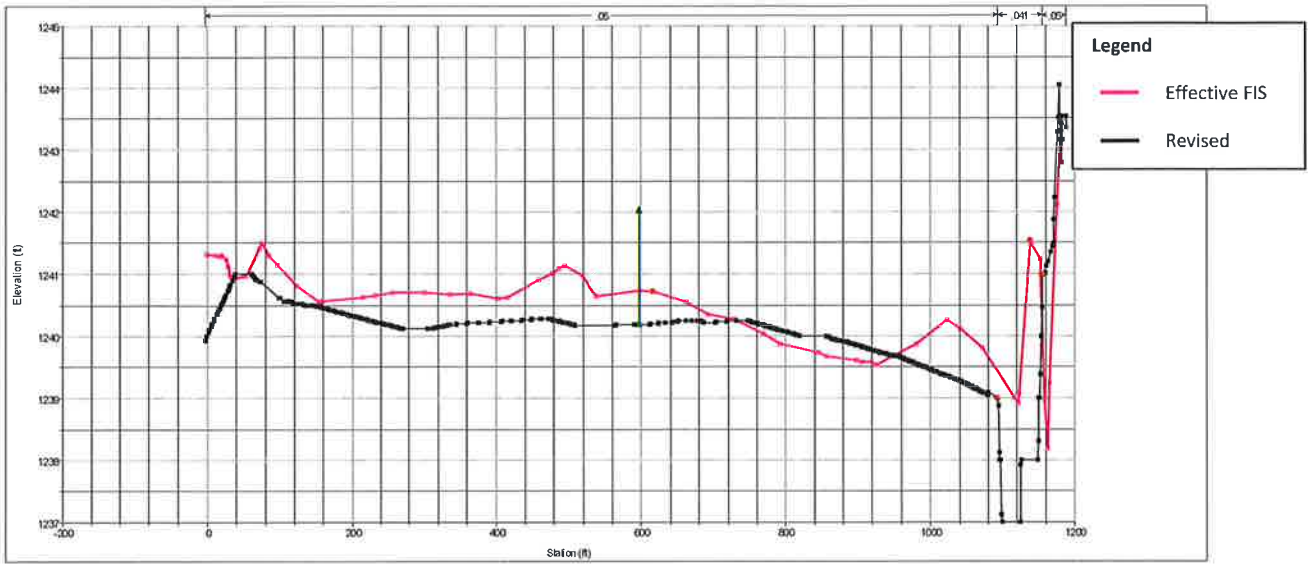


Figure 11. Effective RS 1554.78 (D), Revised RS 783.83

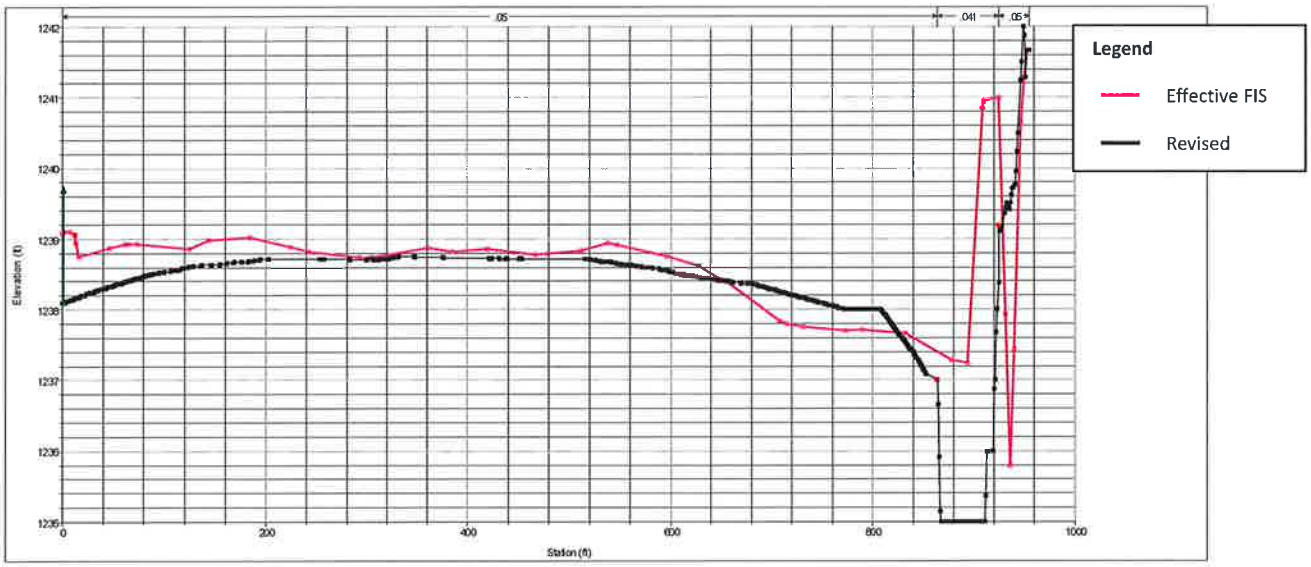


Figure 12. Effective RS 1118.32(C), Revised RS 401.53

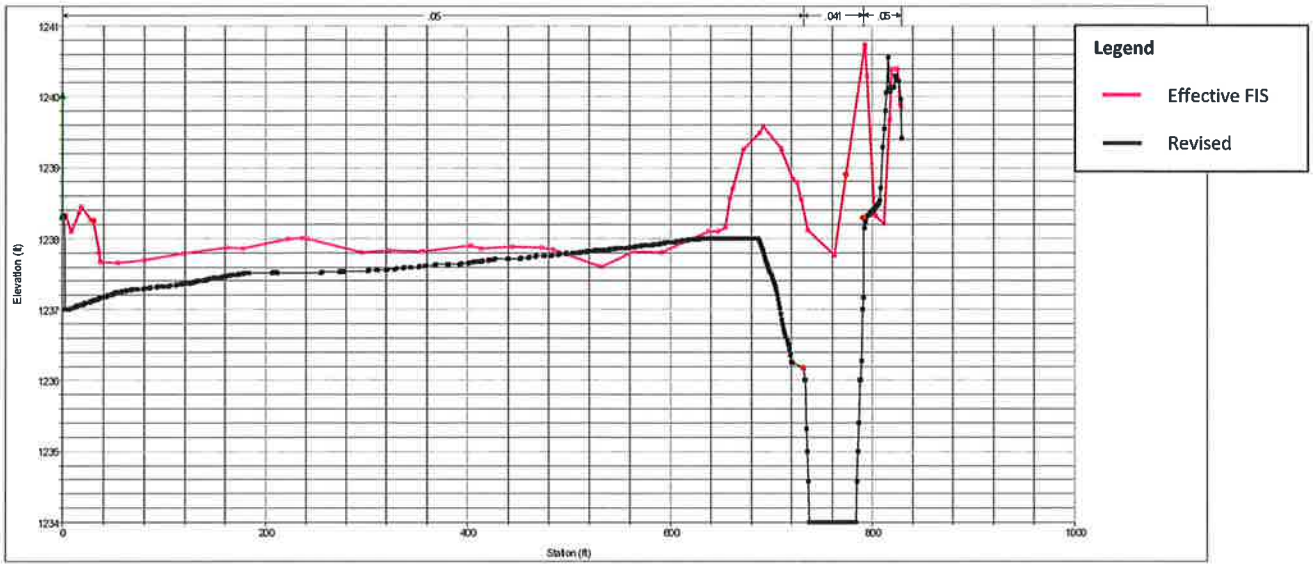


Figure 13. Effective RS 951.84(B), Revised RS 160.54

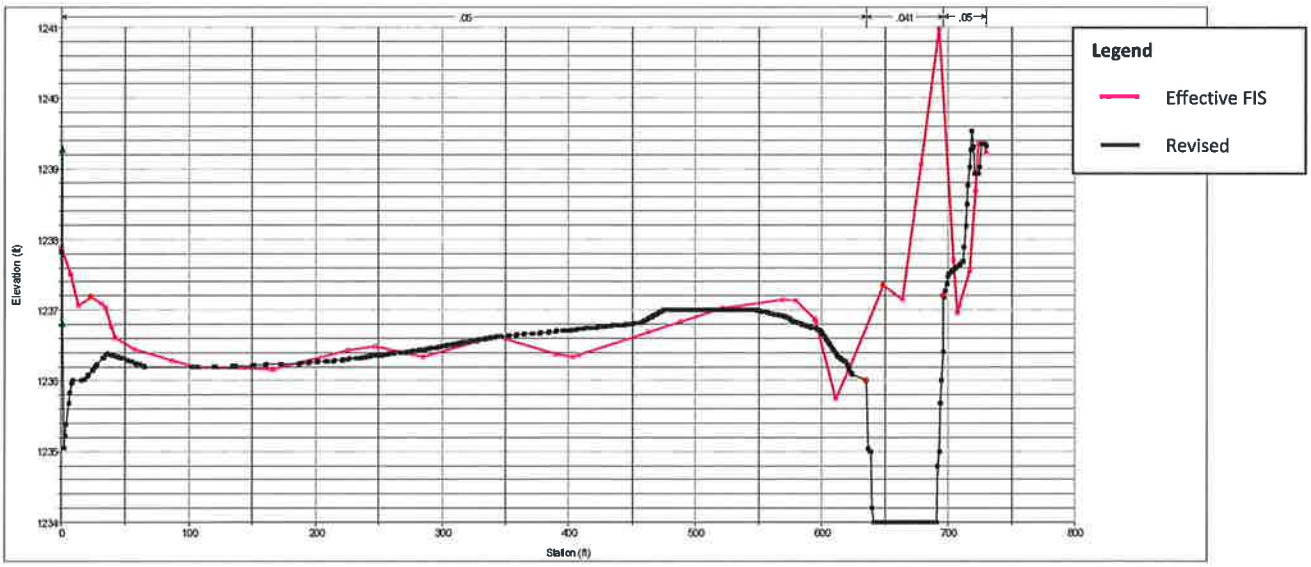


Figure 14. Effective RS 793.19 (A), Revised RS 0.275

NOTE: THIS MAP REFLECTS THE CURRENT CONDITIONS OF THE MITIGATING CHANNEL AS OF OCTOBER 3. ALL OF THE SURFACE & THE STORM CHANNEL THE TOP OF BANK IS NOT BASED ON DATA THEREFORE IS NOT REALISTIC. THERE IS SOME QUESTION ABOUT THE WORK ON THE SOUTH END OF THE CHANNEL BETWEEN THE CHANNEL AND THE POND. I HAVE PLACED THE 100 FLOODWAY ON THIS MAP. THE NO RISE NEEDS TO INCLUDE ALL OF THE EXISTING LOTS IN TWIN CREEKS CROSSING. THIS MAP IS ON THE SOUTHERN OREGON SOUTH ZONE NAD1983 HORIZONTAL DATUM AND NAVD 1988 VERTICAL DATUM

Surveyed by:

FARBER & SONS, INC.
dba FARBER SURVEYING
(541) 664-5599

PO BOX 5286
431 OAK STREET
CENTRAL POINT, OREGON 97502

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON JULY 14, 1987 HUGH A. FARBER

RENEWAL DATE 12-31-15

```
                         HEC-RAS Version 4.1.0 Jan 2010
                          U.S. Army Corps of Engineers
                         Hydrologic Engineering Center
                               609 Second Street
                               Davis, California


             X     X  XXXXXX    XXXX        XXXX       XX      XXXX
             X     X  X        X    X       X   X     X  X    X
             X     X  X        X            X   X    X    X   X
             XXXXXXX  XXXX     X       XXX  XXXX     XXXXXX    XXXX
             X     X  X        X            X  X     X    X        X
             X     X  X        X    X       X   X    X    X        X
             X     X  XXXXXX    XXXX        X    X   X    X   XXXXX



PROJECT DATA
Project Title: Jackson Creek Hydraulic Model
Project File : JAFISOct04.prj
Run Date and Time: 2/25/2015 3:23:11 PM

Project in English units

Project Description:
Jackson Creek HEC-RAS Model - Twin Creeks Development No-Rise
Developed by
Northwest Hydraulic Consultants, Inc
February 25, 2015
v4.1.0

Vertical
Datum:  NAVD 1988
Survey obtained by NHC and terrain data supplied by the City
of Central Point, Farber Surveying and Whetstone Engineering

2015
AMMENDMENT
As-built of drainage swale grading added to model
Development
grading includes T.C. Crossing Phases 1, 2, and 3; N.V. Phase 3




PLAN DATA

Plan Title: Duplicate Effective Floodway
Plan File : Q:\_B\200044_Twin Creeks CLOMR
Preparation\2015_NoRise\Submittal\HEC-RAS\JAFISOct04.p15

            Geometry Title: Jackson_Floodway_Effective
            Geometry File : Q:\_B\200044_Twin Creeks CLOMR
            Preparation\2015_NoRise\Submittal\HEC-RAS\JAFISOct04.g02

            Flow Title    : Jackson_Floodway_Effective
            Flow File     : Q:\_B\200044_Twin Creeks CLOMR
            Preparation\2015_NoRise\Submittal\HEC-RAS\JAFISOct04.f03

Plan Summary Information:
Number of:  Cross Sections =   72    Multiple Openings  =    0
```

```
            Culverts        =    5    Inline Structures  =    2
            Bridges         =    8    Lateral Structures =    9

Computational Information
    Water surface calculation tolerance  =  0.01
    Critical depth calculation tolerance =  0.01
    Maximum number of iterations         =  20
    Maximum difference tolerance         =  0.3
    Flow tolerance factor                =  0.001

Computation Options
    Critical depth computed only where necessary
    Conveyance Calculation Method: At breaks in n values only
    Friction Slope Method:         Average Conveyance
    Computational Flow Regime:     Subcritical Flow

Encroachment Data
   Equal Conveyance = True
   Left Offset      =        0
   Right Offset     =        0

River = Jackson Creek    Reach = Main Channel
RS       Profile           Method  Value1  Value2
20208.45FLOODWAY                1 1067.75  1120.2
20198.01FLOODWAY                1 1144.75  1197.2
20166.90FLOODWAY                1  1152.5 1202.36
20090.33FLOODWAY                1 1016.25 1057.88
18967.88FLOODWAY                1  225.09  279.64
17994.36FLOODWAY                1      82  147.06
17931.56FLOODWAY                1      82     151
17857.52FLOODWAY                1     180     240
17716.39FLOODWAY                1     259     323
17671.40FLOODWAY                1     270     330
17620.46FLOODWAY                1     280     340
17591.36FLOODWAY                1  289.21     354
16942.29FLOODWAY                1  267.96  303.96
16403.44FLOODWAY                1   124.5  220.93
15919.80FLOODWAY                1   133.5  198.59
15857.49FLOODWAY                1   123.5  188.59
15411.86FLOODWAY                1   90.85  154.19
15372.82FLOODWAY                1      33     103
15319.58FLOODWAY                1       0   62.77
15288.48FLOODWAY                1    63.5  115.27
15069.27FLOODWAY                1     7.5    38.3
15002.72FLOODWAY                1   746.5  783.19
14531.71FLOODWAY                1  427.52   464.5
13739.75FLOODWAY                1    13.6   75.82
13618.45FLOODWAY                1    19.4    63.2
13447.21FLOODWAY                1   25.95    65.2
13314.60FLOODWAY                1   37.15   96.91
13087.59FLOODWAY                1    38.7   144.1
12851.71FLOODWAY                1   100.3   149.5
12799.54FLOODWAY                1   119.3   168.5
12651.65FLOODWAY                1   102.7     230
12352.91FLOODWAY                1      40     167
12184.87FLOODWAY                1   112.5  153.73
12153.40FLOODWAY                1   105.5  141.39
11900.70FLOODWAY                1  253.62  299.71
11885.36FLOODWAY                1     248  294.09
11748.96FLOODWAY                1  264.12  308.05
11366.76FLOODWAY                1   12.82   50.24
11034.75FLOODWAY                1   22.46      58
11018.94FLOODWAY                1   24.66    57.3
```

```
10990.71FLOODWAY                1   25.71   58.37
10948.06FLOODWAY                1   48.68   81.37
10897.78FLOODWAY                1       0   50.22
10884.99FLOODWAY                1       0      90
10589.80FLOODWAY                1       0     150
10343.73FLOODWAY                1       0     200
10325.40FLOODWAY                1       0     200
10175.04FLOODWAY                1       0     225
10159.97FLOODWAY                1       0     235

River = Jackson Creek    Reach = Main Lower
RS      Profile           Method  Value1  Value2
9769.785FLOODWAY                1   57.49   416.4
9747.670FLOODWAY                1   57.61  420.25
9611.585FLOODWAY                1       0  275.68
9595.562FLOODWAY                1       0  275.68
9288.338FLOODWAY                1       0     300
9235.024FLOODWAY                1  361.59     700
9220.769FLOODWAY                1  199.82     690
9000    FLOODWAY                1     225     670

River = Jackson Overbank Reach = Jackson Overbank
RS      Profile           Method  Value1  Value2
3956.457FLOODWAY                1    1290    1600
3722.349FLOODWAY                1    1141    1564
3454.720FLOODWAY                1    1070 1430.03
3070.973FLOODWAY                1     800 1150.65
2547.979FLOODWAY                1    1260 1571.73
2422.046FLOODWAY                1    1280 1563.41
2270.064FLOODWAY                1    1335 1594.29
2113.142FLOODWAY                1    1235 1499.38
1966.347FLOODWAY                1    1140 1432.21
1689.039FLOODWAY                1     955 1225.42
1554.780FLOODWAY                1     915  1138.8
1188.317FLOODWAY                1     655     894
951.8403FLOODWAY                1     296     496
794.192*FLOODWAY                1      95     295
793.1924FLOODWAY                1      95     295


Profile Output Table - Encroachment 1

  River              Reach              River Sta      Profile     W.S.
  Elev   Prof Delta WS   E.G. Elev   Top Wdth Act    Q Left   Q Channel
  Q Right   Enc Sta L   Ch Sta L   Ch Sta R   Enc Sta R

                                                                        (
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167                                                                    cfs)(cfs)(cfs)(ft)(ft)(ft)(ft)
168
169     Jackson Creek       Main Lower          9000              100YR
        1233.89                    1234.71            395.15    389.05
        2066.70       1.27                   436.95      479.00
170     Jackson Creek       Main Lower          9000              FLOODWAY
        1234.72             0.84   1235.60            445.00    787.16
        2552.01      71.83      225.00       436.95      479.00        670.00
171
172     Jackson Creek       Main Lower          9220.769          100YR
        1235.15                    1235.43            490.18    708.38
        1616.59     132.04                   436.95      479.00
173     Jackson Creek       Main Lower          9220.769          FLOODWAY
        1236.04             0.89   1236.29            490.18   1166.96
        1839.93     404.11      199.82       436.95      479.00        690.00
174
175     Jackson Creek       Main Lower          9235.024          100YR
        1234.82                    1235.64            338.41     33.11
        2150.18     273.73                   437.80      484.13
176     Jackson Creek       Main Lower          9235.024          FLOODWAY
        1235.80             0.98   1236.45            338.41    179.74
        2436.59     794.68      361.59       437.80      484.13        700.00
177
178     Jackson Creek       Main Lower          9245
        Culvert
179
180     Jackson Creek       Main Lower          9288.338          100YR
        1236.69                    1236.88            400.00    338.65
        1179.61     938.76                    57.83       86.93
181     Jackson Creek       Main Lower          9288.338          FLOODWAY
        1237.39             0.69   1237.68            300.00    636.08
        1572.31    1202.62        0.00        57.83       86.93        300.00
182
183     Jackson Creek       Main Lower          9300                         Lat
```

```
183     Struct
184
185     Jackson Creek      Main Lower         9595.562       100YR
        1237.10                     1237.31         416.00    180.38
        1529.78   1353.09                   56.68      99.03
186     Jackson Creek      Main Lower         9595.562       FLOODWAY
        1237.91            0.81     1238.18         275.68    390.83
        1843.63   1176.54        0.00      56.68      99.03      275.68
187
188     Jackson Creek      Main Lower         9607.9                    Inl
        Struct
189
190     Jackson Creek      Main Lower         9611.585       100YR
        1237.15                     1237.35         414.00    213.86
        1505.68   1343.70                   54.68      97.03
191     Jackson Creek      Main Lower         9611.585       FLOODWAY
        1237.98            0.83     1238.23         275.68    424.60
        1788.58   1197.82        0.00      54.68      97.03      275.68
192
193     Jackson Creek      Main Lower         9700                      Lat
        Struct
194
195     Jackson Creek      Main Lower         9747.670       100YR
        1237.35                     1237.63         420.25    390.67
        1252.54   1538.02                   57.61      82.13
196     Jackson Creek      Main Lower         9747.670       FLOODWAY
        1238.26            0.91     1238.46         362.64
        1222.92   2188.08       57.61      57.61      82.13      420.25
197
198     Jackson Creek      Main Lower         9758    BR D   100YR
        1237.54                     1237.68         420.25    227.25
        655.55   2298.43                   57.61      82.13
199     Jackson Creek      Main Lower         9758    BR D   FLOODWAY
        1238.38            0.85     1238.49         362.64
        616.76   2794.24       57.61      57.61      82.13      420.25
200
201     Jackson Creek      Main Lower         9758    BR U   100YR
        1237.59                     1237.75         416.40    249.06
        638.58   2293.58                   57.49      83.13
202     Jackson Creek      Main Lower         9758    BR U   FLOODWAY
        1238.42            0.82     1238.53         358.91
        614.86   2796.14       57.49      57.49      83.13      416.40
203
204     Jackson Creek      Main Lower         9769.785       100YR
        1237.52                     1237.78         416.40    447.34
        1250.51   1483.38                   57.49      83.13
205     Jackson Creek      Main Lower         9769.785       FLOODWAY
        1238.35            0.83     1238.56         358.91
        1284.04   2126.96       57.49      57.49      83.13      416.40
206
207     Jackson Creek      Main Channel       10159.97       100YR
        1238.33                     1238.83          52.34     33.59
        911.59      0.53                   43.13      68.88
208     Jackson Creek      Main Channel       10159.97       FLOODWAY
        1239.04            0.71     1239.82         223.81    150.12
        1483.06    557.82        0.00      43.13      68.88      235.00
209
210     Jackson Creek      Main Channel       10168   BR D   100YR
        1237.52                     1239.20
        945.71                         43.13      68.88
211     Jackson Creek      Main Channel       10168   BR D   FLOODWAY
        1239.44            1.92     1239.87         235.00    113.21
        777.14   1300.66       0.00      43.13      68.88      235.00
```

```
212
213     Jackson Creek      Main Channel       10168   BR U   100YR
        1237.76                     1239.51
        945.71                            55.05      77.27
214     Jackson Creek      Main Channel       10168   BR U   FLOODWAY
        1239.56            1.80     1240.15         225.00    142.32
        890.87   1157.80        0.00      55.05      77.27      225.00
215
216     Jackson Creek      Main Channel       10175.04       100YR
        1239.65                     1239.69         552.82     54.39
        379.78    511.54                  55.05      77.27
217     Jackson Creek      Main Channel       10175.04       FLOODWAY
        1239.41           -0.24     1240.22         214.60    182.45
        1437.53    571.02        0.00      55.05      77.27      225.00
218
219     Jackson Creek      Main Channel       10200                     Lat
        Struct
220
221     Jackson Creek      Main Channel       10325.40       100YR
        1239.54                     1239.89          43.49      0.53
        1207.34      0.35                  16.27      55.15
222     Jackson Creek      Main Channel       10325.40       FLOODWAY
        1240.28            0.74     1240.80         200.00     11.51
        1801.26    378.23        0.00      16.27      55.15      200.00
223
224     Jackson Creek      Main Channel       10335   BR D   100YR
        1239.21                     1240.03           1.00
        1207.87      0.34                  16.27      55.15
225     Jackson Creek      Main Channel       10335   BR D   FLOODWAY
        1240.45            1.24     1240.82         200.00     38.93
        1241.49    910.58        0.00      16.27      55.15      200.00
226
227     Jackson Creek      Main Channel       10335   BR U   100YR
        1239.35                     1240.36          38.85
        1208.21                           16.02      55.04
228     Jackson Creek      Main Channel       10335   BR U   FLOODWAY
        1240.58            1.22     1241.01         200.00     47.89
        1271.70    871.41        0.00      16.02      55.04      200.00
229
230     Jackson Creek      Main Channel       10343.73       100YR
        1240.08                     1240.43          51.36      3.27
        1204.94                           16.02      55.04
231     Jackson Creek      Main Channel       10343.73       FLOODWAY
        1240.52            0.44     1241.05         200.00     20.83
        1752.55    417.61        0.00      16.02      55.04      200.00
232
233     Jackson Creek      Main Channel       10400                     Lat
        Struct
234
235     Jackson Creek      Main Channel       10589.80       100YR
        1240.37                     1241.41          34.92
        1853.30      0.03                  22.92      57.84
236     Jackson Creek      Main Channel       10589.80       FLOODWAY
        1241.19            0.82     1241.88         142.05      7.35
        1846.48    337.18        0.00      22.92      57.84      150.00
237
238     Jackson Creek      Main Channel       10600                     Lat
        Struct
239
240     Jackson Creek      Main Channel       10884.99       100YR
        1241.82                     1242.96          30.37
        1930.97      0.14                  19.65      49.65
241     Jackson Creek      Main Channel       10884.99       FLOODWAY
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241     1242.04             0.21     1243.42          32.10      0.17
        2190.56      0.28        0.00      19.65      49.65       90.00
242
243     Jackson Creek       Main Channel       10891   BR D   100YR
        1241.23                     1243.22
        1931.11                               19.65      49.65
244     Jackson Creek       Main Channel       10891   BR D   FLOODWAY
        1241.22            -0.01     1243.78
        2191.00                     0.00      19.65      49.65       90.00
245
246     Jackson Creek       Main Channel       10891   BR U   100YR
        1241.29                     1243.57
        1931.11                               17.42      50.14
247     Jackson Creek       Main Channel       10891   BR U   FLOODWAY
        1241.29             0.00     1244.23
        2191.00                     0.00      17.42      50.14       50.22
248
249     Jackson Creek       Main Channel       10897.78       100YR
        1242.73                     1243.71          39.44      3.67
        1925.61      1.84                     17.42      50.14
250     Jackson Creek       Main Channel       10897.78       FLOODWAY
        1243.39             0.66     1244.43          50.22     22.61
        2168.35      0.04        0.00      17.42      50.14       50.22
251
252     Jackson Creek       Main Channel       10900                      Lat
        Struct
253
254     Jackson Creek       Main Channel       10948.06       100YR
        1242.96                     1243.93          41.02      5.52
        1954.93      0.79                     48.68      81.37
255     Jackson Creek       Main Channel       10948.06       FLOODWAY
        1243.62             0.66     1244.65          32.69
        2191.00                    48.68      48.68      81.37       81.37
256
257     Jackson Creek       Main Channel       10990.71       100YR
        1243.18                     1244.10          39.76      4.14
        1956.63      0.46                     25.71      58.37
258     Jackson Creek       Main Channel       10990.71       FLOODWAY
        1243.85             0.67     1244.83          32.66
        2191.00                    25.71      25.71      58.37       58.37
259
260     Jackson Creek       Main Channel       11018.94       100YR
        1243.33                     1244.21          38.87      1.83
        1959.08      0.32                     24.66      57.30
261     Jackson Creek       Main Channel       11018.94       FLOODWAY
        1244.01             0.68     1244.95          32.64
        2191.00                    24.66      24.66      57.30       57.30
262
263     Jackson Creek       Main Channel       11027.9                    Inl
        Struct
264
265     Jackson Creek       Main Channel       11034.75       100YR
        1243.76                     1244.62          42.70      4.88
        1956.18      0.16                     24.41      57.05
266     Jackson Creek       Main Channel       11034.75       FLOODWAY
        1244.51             0.75     1245.41          35.54      6.77
        2183.60      0.63       22.46      24.41      57.05       58.00
267
268     Jackson Creek       Main Channel       11366.76       100YR
        1244.96                     1245.70          38.44      0.07
        1961.10      0.06                     12.82      50.24
269     Jackson Creek       Main Channel       11366.76       FLOODWAY
        1245.67             0.71     1246.44          37.42
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269     2191.00                 12.82      12.82      50.24       50.24
270
271     Jackson Creek      Main Channel       11748.96       100YR
        1246.16                    1246.82          42.56
        1961.23                          264.12     308.05
272     Jackson Creek      Main Channel       11748.96       FLOODWAY
        1246.85            0.69    1247.54          43.59
        2191.00                264.12     264.12     308.05      308.05
273
274     Jackson Creek      Main Channel       11885.36       100YR
        1246.57                    1247.21          43.69
        1961.23                          248.00     294.09
275     Jackson Creek      Main Channel       11885.36       FLOODWAY
        1247.25            0.68    1247.90          45.29
        2191.00                248.00     248.00     294.09      294.09
276
277     Jackson Creek      Main Channel       11892   BR D   100YR
        1246.43                    1247.27          30.74
        1961.23                          248.00     294.09
278     Jackson Creek      Main Channel       11892   BR D   FLOODWAY
        1247.08            0.64    1247.98          30.73
        2191.00                248.00     248.00     294.09      294.09
279
280     Jackson Creek      Main Channel       11892   BR U   100YR
        1246.49                    1247.32          31.52
        1961.23                          258.28     295.05
281     Jackson Creek      Main Channel       11892   BR U   FLOODWAY
        1247.14            0.65    1248.03          31.52
        2191.00                253.62     258.28     295.05      299.71
282
283     Jackson Creek      Main Channel       11900.70       100YR
        1246.56                    1247.33          35.30
        1961.23                          258.28     295.05
284     Jackson Creek      Main Channel       11900.70       FLOODWAY
        1247.23            0.67    1248.04          37.96
        2191.00      0.00      253.62     258.28     295.05      299.71
285
286     Jackson Creek      Main Channel       12153.40       100YR
        1247.33                    1248.56          29.55
        1961.23                          105.50     141.39
287     Jackson Creek      Main Channel       12153.40       FLOODWAY
        1247.99            0.66    1249.28          31.79
        2191.00                105.50     105.50     141.39      141.39
288
289     Jackson Creek      Main Channel       12168   BR D   100YR
        1247.25                    1248.65          24.44
        1961.23                          105.50     141.39
290     Jackson Creek      Main Channel       12168   BR D   FLOODWAY
        1247.87            0.62    1249.39          24.46
        2191.00                105.50     105.50     141.39      141.39
291
292     Jackson Creek      Main Channel       12168   BR U   100YR
        1247.28                    1248.85          23.59
        1961.23                          112.50     153.73
293     Jackson Creek      Main Channel       12168   BR U   FLOODWAY
        1247.90            0.62    1249.60          23.58
        2191.00                112.50     112.50     153.73      153.73
294
295     Jackson Creek      Main Channel       12184.87       100YR
        1248.15                    1248.96          39.31
        1961.23                          112.50     153.73
296     Jackson Creek      Main Channel       12184.87       FLOODWAY
        1248.89            0.75    1249.72          40.97
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296     2191.00                 112.50     112.50     153.73      153.73
297
298     Jackson Creek       Main Channel       12352.91        100YR
        1249.06                     1249.12          157.95       2.66
        1958.27      0.29                   40.00     167.00
299     Jackson Creek       Main Channel       12352.91        FLOODWAY
        1249.81             0.75    1249.87          127.00
        2191.00                  40.00      40.00     167.00      167.00
300
301     Jackson Creek       Main Channel       12651.65        100YR
        1249.09                     1249.23          110.62
        1961.23                           102.70     230.00
302     Jackson Creek       Main Channel       12651.65        FLOODWAY
        1249.84             0.75    1249.98          117.11
        2191.00                 102.70     102.70     230.00      230.00
303
304     Jackson Creek       Main Channel       12799.54        100YR
        1248.93                     1251.14           37.16
        1961.23                           119.30     168.50
305     Jackson Creek       Main Channel       12799.54        FLOODWAY
        1249.39             0.45    1251.64           40.16
        2191.00                 119.30     119.30     168.50      168.50
306
307     Jackson Creek       Main Channel       12825   BR D    100YR
        1249.61                     1251.24           41.61
        1961.23                           119.30     168.50
308     Jackson Creek       Main Channel       12825   BR D    FLOODWAY
        1250.05             0.44    1251.74           44.52
        2191.00                 119.30     119.30     168.50      168.50
309
310     Jackson Creek       Main Channel       12825   BR U    100YR
        1250.67                     1251.72           49.06
        1961.19      0.04                 100.30     149.50
311     Jackson Creek       Main Channel       12825   BR U    FLOODWAY
        1251.10             0.43    1252.20           49.20
        2191.00                 100.30     100.30     149.50      149.50
312
313     Jackson Creek       Main Channel       12851.71        100YR
        1250.68                     1251.72           49.15
        1961.18      0.05                 100.30     149.50
314     Jackson Creek       Main Channel       12851.71        FLOODWAY
        1251.11             0.43    1252.21           49.20
        2191.00                 100.30     100.30     149.50      149.50
315
316     Jackson Creek       Main Channel       13087.59        100YR
        1252.41                     1252.96           77.29
        1961.23                           38.70     144.10
317     Jackson Creek       Main Channel       13087.59        FLOODWAY
        1252.85             0.45    1253.41           81.78
        2191.00                  38.70      38.70     144.10      144.10
318
319     Jackson Creek       Main Channel       13314.60        100YR
        1253.22                     1254.04           66.33
        1958.31      2.92                  37.15      96.91
320     Jackson Creek       Main Channel       13314.60        FLOODWAY
        1253.61             0.39    1254.49           55.46
        2191.00                  37.15      37.15      96.91       96.91
321
322     Jackson Creek       Main Channel       13447.21        100YR
        1253.10                     1255.60           32.01
        1944.20     17.03                  25.95      59.05
323     Jackson Creek       Main Channel       13447.21        FLOODWAY
        1253.46             0.37    1256.19           32.60
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323     2168.27     22.73       25.95      25.95      59.05       65.20
324
325     Jackson Creek      Main Channel       13618.45       100YR
        1255.97                     1256.87          40.70
        1859.02    102.21                  19.40      52.90
326     Jackson Creek      Main Channel       13618.45       FLOODWAY
        1256.52            0.55     1257.49          41.51
        2069.87    121.13       19.40      19.40      52.90       63.20
327
328     Jackson Creek      Main Channel       13739.75       100YR
        1256.51                     1257.32          72.09
        1751.09    210.14                  13.60      46.70
329     Jackson Creek      Main Channel       13739.75       FLOODWAY
        1257.14            0.62     1257.93          62.22
        1904.86    286.15       13.60      13.60      46.70       75.82
330
331     Jackson Creek      Main Channel       14531.71       100YR
        1260.41                     1262.25          34.06       2.49
        1958.74                           427.52     464.50
332     Jackson Creek      Main Channel       14531.71       FLOODWAY
        1260.83            0.42     1262.86          30.79
        2191.00                427.52     427.52     464.50      464.50
333
334     Jackson Creek      Main Channel       15002.72       100YR
        1263.86                     1264.54          98.23       6.61
        1954.62                           746.50     783.19
335     Jackson Creek      Main Channel       15002.72       FLOODWAY
        1264.58            0.72     1265.30          36.69
        2191.00                746.50     746.50     783.19      783.19
336
337     Jackson Creek      Main Channel       15069.27       100YR
        1263.81                     1264.93          33.82       0.35
        1656.88                                7.50      38.30
338     Jackson Creek      Main Channel       15069.27       FLOODWAY
        1264.53            0.72     1265.71          30.78
        1887.00                 7.50       7.50      38.30       38.30
339
340     Jackson Creek      Main Channel       15288.48       100YR
        1265.56                     1266.03          64.38       1.73
        1655.50                                63.50     115.27
341     Jackson Creek      Main Channel       15288.48       FLOODWAY
        1266.28            0.72     1266.76          51.77
        1887.00                63.50      63.50     115.27      115.27
342
343     Jackson Creek      Main Channel       15319.58       100YR
        1265.39                     1266.28          62.42     106.37
        1550.86                                38.55      62.77
344     Jackson Creek      Main Channel       15319.58       FLOODWAY
        1266.10            0.71     1267.01          62.77     164.24
        1722.76                 0.00       38.55      62.77       62.77
345
346     Jackson Creek      Main Channel       15345
        Culvert
347
348     Jackson Creek      Main Channel       15372.82       100YR
        1267.07                     1267.40         228.66      22.61
        1559.65     74.98                  45.58      89.81
349     Jackson Creek      Main Channel       15372.82       FLOODWAY
        1267.99            0.92     1268.36          70.00      15.76
        1843.79     27.45       33.00      45.58      89.81      103.00
350
351     Jackson Creek      Main Channel       15411.86       100YR
        1266.97                     1267.58          49.99       0.05
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351     1657.18                                 95.15     144.19
352     Jackson Creek       Main Channel        15411.86        FLOODWAY
        1267.94             0.97     1268.51            53.20       2.09
        1884.91                 90.85      95.15     144.19       154.19
353
354     Jackson Creek       Main Channel        15857.49        100YR
        1268.90                     1269.40            57.24
        1657.23                             123.50     188.59
355     Jackson Creek       Main Channel        15857.49        FLOODWAY
        1269.52             0.62     1270.03            60.47
        1887.00                123.50     123.50     188.59       188.59
356
357     Jackson Creek       Main Channel        15890   BR D    100YR
        1268.41                     1269.40            51.77
        1657.23                             123.50     188.59
358     Jackson Creek       Main Channel        15890   BR D    FLOODWAY
        1268.41             0.00     1270.03            51.77
        1887.00                123.50     123.50     188.59       188.59
359
360     Jackson Creek       Main Channel        15890   BR U    100YR
        1268.41                     1269.85
        1657.23                             133.50     198.59
361     Jackson Creek       Main Channel        15890   BR U    FLOODWAY
        1268.41             0.00     1270.75
        1887.00                133.50     133.50     198.59       198.59
362
363     Jackson Creek       Main Channel        15919.80        100YR
        1269.45                     1269.85            60.11
        1657.23                             133.50     198.59
364     Jackson Creek       Main Channel        15919.80        FLOODWAY
        1270.38             0.93     1270.75            64.34
        1887.00                133.50     133.50     198.59       198.59
365
366     Jackson Creek       Main Channel        16403.44        100YR
        1270.77                     1271.17            60.40
        1657.23                             124.50     220.93
367     Jackson Creek       Main Channel        16403.44        FLOODWAY
        1271.51             0.73     1271.90            64.36
        1887.00                124.50     124.50     220.93       220.93
368
369     Jackson Creek       Main Channel        16942.29        100YR
        1272.45                     1275.14            23.26
        1657.23                             267.96     303.96
370     Jackson Creek       Main Channel        16942.29        FLOODWAY
        1273.01             0.56     1275.86            24.28
        1887.00                267.96     267.96     303.96       303.96
371
372     Jackson Creek       Main Channel        17591.36        100YR
        1279.62                     1280.21            35.46
        1657.23                             289.21     328.05
373     Jackson Creek       Main Channel        17591.36        FLOODWAY
        1280.39             0.77     1281.02            64.30
        1884.31      2.69      289.21     289.21     328.05       354.00
374
375     Jackson Creek       Main Channel        17620.46        100YR
        1278.94                     1281.31            22.17
        1657.23                             293.02     323.00
376     Jackson Creek       Main Channel        17620.46        FLOODWAY
        1279.76             0.82     1282.06            28.56
        1887.00                280.00     293.02     323.00       340.00
377
378     Jackson Creek       Main Channel        17645
        Culvert
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379
380     Jackson Creek      Main Channel       17671.40       100YR
        1280.37                     1282.19          41.00      1.67
        1655.57                           295.40     316.70
381     Jackson Creek      Main Channel       17671.40       FLOODWAY
        1281.21            0.83     1282.96          45.70     51.50
        1835.50                270.00     295.40     316.70      330.00
382
383     Jackson Creek      Main Channel       17710                     Lat
        Struct
384
385     Jackson Creek      Main Channel       17716.39       100YR
        1282.47                     1282.80          43.90      0.24
        1692.59                           269.31     312.90
386     Jackson Creek      Main Channel       17716.39       FLOODWAY
        1283.18            0.72     1283.53          43.90      0.56
        1886.44                259.00     269.31     312.90      323.00
387
388     Jackson Creek      Main Channel       17857.52       100YR
        1282.41                     1283.70          24.97      5.42
        1682.89      4.53                 213.50     228.50
389     Jackson Creek      Main Channel       17857.52       FLOODWAY
        1283.06            0.65     1284.47          29.73     14.09
        1858.52     14.40      180.00     213.50     228.50      240.00
390
391     Jackson Creek      Main Channel       17895
        Culvert
392
393     Jackson Creek      Main Channel       17931.56       100YR
        1284.30                     1285.41          59.00
        1617.22     75.62                 92.00     107.70
394     Jackson Creek      Main Channel       17931.56       FLOODWAY
        1285.17            0.88     1286.18          59.00
        1698.47    188.53       82.00      92.00     107.70      151.00
395
396     Jackson Creek      Main Channel       17950                     Lat
        Struct
397
398     Jackson Creek      Main Channel       17994.36       100YR
        1285.61                     1285.80          93.00     32.49
        1749.85                           91.00     147.06
399     Jackson Creek      Main Channel       17994.36       FLOODWAY
        1286.35            0.74     1286.53          65.00     15.24
        1871.76                 82.00      91.00     147.06      147.06
400
401     Jackson Creek      Main Channel       18960                     Lat
        Struct
402
403     Jackson Creek      Main Channel       18967.88       100YR
        1286.71                     1287.16          54.71
        1887.00                           220.50     284.46
404     Jackson Creek      Main Channel       18967.88       FLOODWAY
        1287.27            0.56     1287.65          54.55
        1887.00                225.09     220.50     284.46      279.64
405
406     Jackson Creek      Main Channel       20090.33       100YR
        1292.83                     1296.59          16.00
        1887.00                          1016.25    1057.88
407     Jackson Creek      Main Channel       20090.33       FLOODWAY
        1292.82           -0.01     1296.59          16.00
        1887.00               1016.25    1016.25    1057.88     1057.88
408
409     Jackson Creek      Main Channel       20128
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409     Culvert
410
411     Jackson Creek       Main Channel        20166.90        100YR
        1299.95                     1301.09          15.67
        1887.00                          1152.50    1202.36
412     Jackson Creek       Main Channel        20166.90        FLOODWAY
        1299.95             0.00    1301.09          15.67
        1887.00                1152.50    1152.50    1202.36     1202.36
413
414     Jackson Creek       Main Channel        20198.01        100YR
        1301.02                     1301.23          87.22       0.09
        1879.57      7.33           1144.75    1197.20
415     Jackson Creek       Main Channel        20198.01        FLOODWAY
        1301.01             0.00    1301.23          52.45
        1887.00                1144.75    1144.75    1197.20     1197.20
416
417     Jackson Creek       Main Channel        20208.45        100YR
        1301.00                     1301.25          65.52
        1886.31      0.69           1067.75    1120.20
418     Jackson Creek       Main Channel        20208.45        FLOODWAY
        1301.00             0.00    1301.25          50.66
        1887.00                1067.75    1067.75    1120.20     1120.20
419
420     Jackson Overbank    Jackson Overbank    793.1924        100YR
        1238.50                     1238.54         693.16      31.99
        2154.57     48.97                  23.37     648.59
421     Jackson Overbank    Jackson Overbank    793.1924        FLOODWAY
        1239.18             0.68    1239.25         200.00
        1220.00                 95.00      23.37     648.59      295.00
422
423     Jackson Overbank    Jackson Overbank    794.192*        100YR
        1238.53                     1238.55         694.26      19.39
        1279.30     29.20                  23.42     649.38
424     Jackson Overbank    Jackson Overbank    794.192*        FLOODWAY
        1239.18             0.65    1239.25         200.00
        1220.00                 95.00      23.42     649.38      295.00
425
426     Jackson Overbank    Jackson Overbank    951.8403        100YR
        1238.73                     1238.81         721.73      19.15
        1301.81      6.94                  31.09     774.35
427     Jackson Overbank    Jackson Overbank    951.8403        FLOODWAY
        1239.60             0.87    1239.79         200.00
        1220.00                296.00      31.09     774.35      496.00
428
429     Jackson Overbank    Jackson Overbank    1188.317        100YR
        1239.73                     1239.75         921.36       5.51
        1195.20     49.42                  12.11     909.02
430     Jackson Overbank    Jackson Overbank    1188.317        FLOODWAY
        1240.56             0.83    1240.61         239.00
        1220.00                655.00      12.11     909.02      894.00
431
432     Jackson Overbank    Jackson Overbank    1554.780        100YR
        1240.74                     1240.87         919.71      16.17
        1149.97     83.99                 616.04    1138.80
433     Jackson Overbank    Jackson Overbank    1554.780        FLOODWAY
        1241.33             0.59    1241.53         222.44
        1220.00                915.00     616.04    1138.80     1138.80
434
435     Jackson Overbank    Jackson Overbank    1689.039        100YR
        1241.81                     1241.84        1041.94      10.94
        1136.37     72.69                 271.02    1180.82
436     Jackson Overbank    Jackson Overbank    1689.039        FLOODWAY
        1242.55             0.73    1242.66         270.04
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436     1108.27    111.73      955.00     271.02    1180.82     1225.42
437
438     Jackson Overbank   Jackson Overbank   1966.347       100YR
        1242.82                     1242.88        1051.44     13.79
        1162.22     44.00                458.53    1408.70
439     Jackson Overbank   Jackson Overbank   1966.347       FLOODWAY
        1243.76            0.94     1243.91         292.21
        1201.51     18.50     1140.00     458.53    1408.70     1432.21
440
441     Jackson Overbank   Jackson Overbank   2113.142       100YR
        1243.65                     1243.70        1018.30
        1187.35     32.65                485.34    1499.38
442     Jackson Overbank   Jackson Overbank   2113.142       FLOODWAY
        1244.54            0.89     1244.69         264.38
        1220.00               1235.00     485.34    1499.38     1499.38
443
444     Jackson Overbank   Jackson Overbank   2270.064       100YR
        1244.37                     1244.41        1007.27
        1216.14      3.86                532.09    1594.29
445     Jackson Overbank   Jackson Overbank   2270.064       FLOODWAY
        1245.29            0.93     1245.40         259.29
        1220.00               1335.00     532.09    1594.29     1594.29
446
447     Jackson Overbank   Jackson Overbank   2422.046       100YR
        1245.25                     1245.35         679.23
        1220.00                            472.24    1563.41
448     Jackson Overbank   Jackson Overbank   2422.046       FLOODWAY
        1245.97            0.72     1246.12         277.21
        1220.00               1280.00     472.24    1563.41     1563.41
449
450     Jackson Overbank   Jackson Overbank   2547.979       100YR
        1245.86                     1245.90         851.99
        1220.00                            566.48    1571.73
451     Jackson Overbank   Jackson Overbank   2547.979       FLOODWAY
        1246.71            0.84     1246.83         303.77
        1220.00               1260.00     566.48    1571.73     1571.73
452
453     Jackson Overbank   Jackson Overbank   3070.973       100YR
        1248.34                     1248.48         723.51
        1220.00                            252.52    1150.65
454     Jackson Overbank   Jackson Overbank   3070.973       FLOODWAY
        1249.25            0.90     1249.36         337.96
        1220.00                800.00     252.52    1150.65     1150.65
455
456     Jackson Overbank   Jackson Overbank   3454.720       100YR
        1250.99                     1251.03         982.88      2.07
        1217.93                            288.24    1430.03
457     Jackson Overbank   Jackson Overbank   3454.720       FLOODWAY
        1251.94            0.95     1252.08         358.97
        1220.00               1070.00     288.24    1430.03     1430.03
458
459     Jackson Overbank   Jackson Overbank   3722.349       100YR
        1252.21                     1252.27         801.95
        1197.91     22.09                689.68    1564.86
460     Jackson Overbank   Jackson Overbank   3722.349       FLOODWAY
        1253.18            0.97     1253.23         423.00
        1220.00               1141.00     689.68    1564.86     1564.00
461
462     Jackson Overbank   Jackson Overbank   3956.457       100YR
        1254.01                     1254.10         594.99
        1220.00                            999.33    1679.91
463     Jackson Overbank   Jackson Overbank   3956.457       FLOODWAY
        1254.05            0.04     1254.19         310.00
```

463	1220.00	1290.00	999.33	1679.91	1600.00
464					
465					

```
                          HEC-RAS Version 4.1.0 Jan 2010
                           U.S. Army Corps of Engineers
                          Hydrologic Engineering Center
                                609 Second Street
                                Davis, California


             X     X  XXXXXX    XXXX        XXXX       XX      XXXX
             X     X  X        X    X       X   X     X  X    X
             X     X  X        X            X   X    X    X   X
             XXXXXXX  XXXX     X       XXX  XXXX     XXXXXX    XXXX
             X     X  X        X            X  X     X    X        X
             X     X  X        X    X       X   X    X    X        X
             X     X  XXXXXX    XXXX        X    X   X    X   XXXXX
```

PROJECT DATA
Project Title: Jackson Creek Hydraulic Model
Project File : JAFISOct04.prj
Run Date and Time: 2/25/2015 2:29:21 PM

Project in English units

Project Description:
Jackson Creek HEC-RAS Model - Twin Creeks Development No-Rise
Developed by
Northwest Hydraulic Consultants, Inc
February 25, 2015
v4.1.0

Vertical
Datum: NAVD 1988
Survey obtained by NHC and terrain data supplied by the City
of Central Point, Farber Surveying and Whetstone Engineering

2015
AMMENDMENT
As-built of drainage swale grading added to model
Development
grading includes T.C. Crossing Phases 1, 2, and 3; N.V. Phase 3

PLAN DATA

Plan Title: Revised2015_Floodway
Plan File : Q:_B\200044_Twin Creeks CLOMR Preparation\2015_NoRise\Submittal\HEC-RAS\JAFISOct04.p09

Geometry Title: Jackson_Floodfway_Revised_2015_v4
Geometry File : Q:_B\200044_Twin Creeks CLOMR Preparation\2015_NoRise\Submittal\HEC-RAS\JAFISOct04.g14

Flow Title : Jackson_Floodway_Revised_2015
Flow File : Q:_B\200044_Twin Creeks CLOMR Preparation\2015_NoRise\Submittal\HEC-RAS\JAFISOct04.f04

Plan Description:
Revised floodway run. 2015 conditions.

```
v4


Plan Summary Information:
Number of:  Cross Sections =   85    Multiple Openings  =    0
            Culverts       =    5    Inline Structures  =    2
            Bridges        =    8    Lateral Structures =    9

Computational Information
    Water surface calculation tolerance  =  0.01
    Critical depth calculation tolerance =  0.01
    Maximum number of iterations         =  20
    Maximum difference tolerance         =  0.3
    Flow tolerance factor                =  0.001

Computation Options
    Critical depth computed only where necessary
    Conveyance Calculation Method: At breaks in n values only
    Friction Slope Method:         Average Conveyance
    Computational Flow Regime:     Subcritical Flow

Encroachment Data
   Equal Conveyance = True
   Left Offset      =        0
   Right Offset     =        0

River = Jackson Creek    Reach = Main Lower
RS      Profile           Method  Value1  Value2
9769.785FLOODWAY               1   57.49   416.4
9747.670FLOODWAY               1   57.61  416.25
9611.585FLOODWAY               1       0  275.68
9595.562FLOODWAY               1       0  275.68
9288.338FLOODWAY               1       0     300
9235.024FLOODWAY               1     362     699
9220.769FLOODWAY               1  199.82     690
9000    FLOODWAY               1     225     670

River = Jackson Creek    Reach = Main Channel
RS      Profile           Method  Value1  Value2
20208.45FLOODWAY               1 1067.75  1120.2
20198.01FLOODWAY               1 1144.75  1197.2
20166.90FLOODWAY               1  1152.5 1202.36
20090.33FLOODWAY               1 1016.25 1057.88
18967.88FLOODWAY               1  225.09  279.64
17994.36FLOODWAY               1      82  147.06
17931.56FLOODWAY               1      82     151
17857.52FLOODWAY               1     180     240
17716.39FLOODWAY               1     259     323
17671.40FLOODWAY               1     270     330
17620.46FLOODWAY               1     280     340
17591.36FLOODWAY               1  289.21     354
16942.29FLOODWAY               1  267.96  303.96
16403.44FLOODWAY               1   124.5  220.93
15919.80FLOODWAY               1   133.5  198.59
15857.49FLOODWAY               1   123.5  188.59
15411.86FLOODWAY               1   90.85  154.19
15372.82FLOODWAY               1      33     103
15319.58FLOODWAY               1       0   62.77
15288.48FLOODWAY               1    63.5  115.27
15069.27FLOODWAY               1     7.5    38.3
15002.72FLOODWAY               1   746.5  783.19
14531.71FLOODWAY               1  427.52   464.5
13739.75FLOODWAY               1    13.6   75.82
```

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13618.45FLOODWAY                1    19.4    63.2
13447.21FLOODWAY                1   25.95    65.2
13314.60FLOODWAY                1   37.15   96.91
13087.59FLOODWAY                1    38.7   144.1
12851.71FLOODWAY                1   100.3   149.5
12799.54FLOODWAY                1   119.3   168.5
12651.65FLOODWAY                1   102.7     230
12352.91FLOODWAY                1      40     167
12184.87FLOODWAY                1   112.5  153.73
12153.40FLOODWAY                1   105.5  141.39
11900.70FLOODWAY                1  253.62  299.71
11885.36FLOODWAY                1     248  294.09
11748.96FLOODWAY                1  264.12  308.05
11366.76FLOODWAY                1   12.82   50.24
11034.75FLOODWAY                1   22.46      58
11018.94FLOODWAY                1   24.66    57.3
10990.71FLOODWAY                1   25.71   58.37
10948.06FLOODWAY                1   48.68   81.37
10897.78FLOODWAY                1       0   50.22
10884.99FLOODWAY                1       0      90
10589.80FLOODWAY                1       0     150
10343.73FLOODWAY                1       0     200
10325.40FLOODWAY                1       0     200
10175.04FLOODWAY                1       0     225
10159.97FLOODWAY                1       0     235
9769.785FLOODWAY                1   57.49     300
9747.670FLOODWAY                1   57.61     300

River = Jackson Overbank Reach = Upper Main
RS      Profile           Method  Value1  Value2
3639.008FLOODWAY                1  405.14  470.75
3370.57 FLOODWAY               117.78998   70.25
3341.924FLOODWAY               111.67999   66.44
3143.447FLOODWAY               19.809999   64.24
3067.819FLOODWAY                1    2.89   57.31
2832.344FLOODWAY                1   72.63  127.37
2732.759FLOODWAY                1  144.91  199.88
2564.282FLOODWAY                1  128.85  205.76
2350.68 FLOODWAY                1   130.6   203.4
2178.49 FLOODWAY                1  129.63  203.43
2019.163FLOODWAY                1  127.92  204.87
1866.284FLOODWAY                1  129.92  205.87
1757.488FLOODWAY                1   139.4  213.22
1646.261FLOODWAY                1 1507.32 1577.27
1495.177FLOODWAY                1 1545.16 1619.86
1358.697FLOODWAY                1 1453.71  1520.7
1249.037FLOODWAY                1 1366.99 1432.01
1117.801FLOODWAY                1 1270.28 1335.06
1002.145FLOODWAY                1 1191.48 1254.26
783.8261FLOODWAY                1 1093.56 1155.53
579.144 FLOODWAY                1  981.97 1043.94
401.5288FLOODWAY                1  860.33  924.29
265.4884FLOODWAY                1  786.17  849.11
160.5392FLOODWAY                1   719.5     795
0.275157FLOODWAY                1  610.89  715.88
0.25    FLOODWAY                1     505  612.09
0.20    FLOODWAY                1     248  629.65
0.15    FLOODWAY                1  158.56  413.56


Profile Output Table - Encroachment 1

  River              Reach          River Sta      Profile        W.S.
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186     Elev   Prof Delta WS   E.G. Elev   Top Wdth Act    Q Left   Q Channel
        Q Right   Enc Sta L   Ch Sta L   Ch Sta R   Enc Sta R
187
                                                                          (f
                                                                          t)
                                                                          (f
                                                                          t)
                                                                          (f
                                                                          t)
                                                                          (f
                                                                          t)
                                                                          (c
                                                                          fs
                                                                          )
                                                                          (c
                                                                          fs
                                                                          )
                                                                          (c
                                                                          fs
                                                                          )
                                                                          (f
                                                                          t)
                                                                          (f
                                                                          t)
                                                                          (f
                                                                          t)
                                                                          (f
                                                                          t)
188
189     Jackson Creek      Main Lower     9000           100YR-dummy
        1233.85                    1234.68         389.79    363.94
        2047.46      1.13                436.95     479.00
190     Jackson Creek      Main Lower     9000           FLOODWAY
        1234.72            0.87     1235.60         445.00    787.16
        2552.01     71.83      225.00     436.95     479.00      670.00
191
192     Jackson Creek      Main Lower     9220.769       100YR-dummy
        1235.12                    1235.41         480.00    671.34
        1617.02    124.18                436.95     479.00
193     Jackson Creek      Main Lower     9220.769       FLOODWAY
        1236.04            0.92     1236.29         490.18   1166.96
        1839.93    404.11      199.82     436.95     479.00      690.00
194
195     Jackson Creek      Main Lower     9235.024       100YR-dummy
        1234.79                    1235.61         333.41     29.76
        2130.66    252.12                437.80     484.13
196     Jackson Creek      Main Lower     9235.024       FLOODWAY
        1235.79            1.00     1236.45         333.00    178.33
        2452.56    780.11      362.00     437.80     484.13      699.00
197
198     Jackson Creek      Main Lower     9245
        Culvert
199
200     Jackson Creek      Main Lower     9288.338       100YR-dummy
        1236.66                    1236.84         405.00    327.03
        1161.46    924.06                 57.83      86.93
201     Jackson Creek      Main Lower     9288.338       FLOODWAY
        1237.38            0.72     1237.68         300.00    635.99
        1572.49   1202.52       0.00      57.83      86.93      300.00
202
203     Jackson Creek      Main Lower     9300                          Lat
        Struct
204
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205     Jackson Creek      Main Lower     9595.562       100YR-dummy
        1237.07                     1237.22         530.00    155.74
        1365.17   1544.31                 56.68      99.03
206     Jackson Creek      Main Lower     9595.562       FLOODWAY
        1237.91            0.84     1238.18         275.68    390.75
        1843.76   1176.49       0.00      56.68      99.03      275.68
207
208     Jackson Creek      Main Lower     9607.9                        Inl
        Struct
209
210     Jackson Creek      Main Lower     9611.585       100YR-dummy
        1237.10                     1237.24         535.00    183.69
        1351.61   1529.92                 54.68      97.03
211     Jackson Creek      Main Lower     9611.585       FLOODWAY
        1237.98            0.88     1238.22         275.68    424.53
        1788.70   1197.77       0.00      54.68      97.03      275.68
212
213     Jackson Creek      Main Lower     9700                          Lat
        Struct
214
215     Jackson Creek      Main Lower     9747.670       100YR-dummy
        1237.25                     1237.50         513.00    343.50
        1179.91   1655.85                 57.61      82.13
216     Jackson Creek      Main Lower     9747.670       FLOODWAY
        1238.25            1.00     1238.46         358.64
        1232.08   2178.92      57.61      57.61      82.13      416.25
217
218     Jackson Creek      Main Lower     9758    BR D   100YR-dummy
        1237.43                     1237.54         513.00    177.61
        593.56   2408.09                 57.61      82.13
219     Jackson Creek      Main Lower     9758    BR D   FLOODWAY
        1238.38            0.95     1238.49         358.64
        622.33   2788.67      57.61      57.61      82.13      416.25
220
221     Jackson Creek      Main Lower     9758    BR U   100YR-dummy
        1237.48                     1237.60         513.78    194.26
        576.48   2408.52                 57.49      83.13
222     Jackson Creek      Main Lower     9758    BR U   FLOODWAY
        1238.42            0.94     1238.53         358.91
        614.71   2796.29      57.49      57.49      83.13      416.40
223
224     Jackson Creek      Main Lower     9769.785       100YR-dummy
        1237.40                     1237.63         513.78    394.04
        1183.11   1602.11                 57.49      83.13
225     Jackson Creek      Main Lower     9769.785       FLOODWAY
        1238.35            0.95     1238.56         358.91
        1283.70   2127.30      57.49      57.49      83.13      416.40
226
227     Jackson Creek      Main Channel   10159.97       100YR-dummy
        1238.23                     1238.52         519.64     22.82
        767.45    220.23                 43.13      68.88
228     Jackson Creek      Main Channel   10159.97       FLOODWAY
        1239.04            0.80     1239.82         223.81    150.08
        1483.20    557.72       0.00      43.13      68.88      235.00
229
230     Jackson Creek      Main Channel   10168   BR D   100YR-dummy
        1238.27                     1238.61         459.83
        560.51    449.99                 43.13      68.88
231     Jackson Creek      Main Channel   10168   BR D   FLOODWAY
        1239.45            1.18     1239.87         235.00    115.56
        774.19   1301.25      0.00      43.13      68.88      235.00
232
233     Jackson Creek      Main Channel   10168   BR U   100YR-dummy
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233     1238.43                     1238.76         461.47
        545.85    464.65                  55.05      77.27
234     Jackson Creek      Main Channel   10168   BR U   FLOODWAY
        1239.57            1.14     1240.15         225.00    144.42
        888.23   1158.35        0.00      55.05      77.27      225.00
235
236     Jackson Creek      Main Channel   10175.04       100YR-dummy
        1238.54                     1238.77         522.14     33.87
        682.52    294.11                  55.05      77.27
237     Jackson Creek      Main Channel   10175.04       FLOODWAY
        1239.42            0.88     1240.23         215.35    182.23
        1436.08    572.69        0.00      55.05      77.27      225.00
238
239     Jackson Creek      Main Channel   10200                        Lat
        Struct
240
241     Jackson Creek      Main Channel   10325.40       100YR-dummy
        1238.74                     1239.14         520.16
        1170.19     79.73                  16.27      55.15
242     Jackson Creek      Main Channel   10325.40       FLOODWAY
        1240.28            1.54     1240.80         200.00     11.53
        1801.12    378.36        0.00      16.27      55.15      200.00
243
244     Jackson Creek      Main Channel   10335   BR D   100YR-dummy
        1238.50                     1239.25         309.25
        1183.85     66.07                  16.27      55.15
245     Jackson Creek      Main Channel   10335   BR D   FLOODWAY
        1240.45            1.95     1240.82         200.00     38.99
        1241.26    910.75        0.00      16.27      55.15      200.00
246
247     Jackson Creek      Main Channel   10335   BR U   100YR-dummy
        1238.55                     1239.51         258.77
        1198.20     51.72                  16.02      55.04
248     Jackson Creek      Main Channel   10335   BR U   FLOODWAY
        1240.58            2.03     1241.02         200.00     47.94
        1271.50    871.56        0.00      16.02      55.04      200.00
249
250     Jackson Creek      Main Channel   10343.73       100YR-dummy
        1239.37                     1239.60         527.73
        969.49    280.43                  16.02      55.04
251     Jackson Creek      Main Channel   10343.73       FLOODWAY
        1240.52            1.15     1241.05         200.00     20.86
        1752.40    417.74        0.00      16.02      55.04      200.00
252
253     Jackson Creek      Main Channel   10400                        Lat
        Struct
254
255     Jackson Creek      Main Channel   10589.80       100YR-dummy
        1239.61                     1240.64         487.68
        1704.14    153.48                  22.92      57.84
256     Jackson Creek      Main Channel   10589.80       FLOODWAY
        1241.19            1.59     1241.89         142.06      7.35
        1846.43    337.22        0.00      22.92      57.84      150.00
257
258     Jackson Creek      Main Channel   10600                        Lat
        Struct
259
260     Jackson Creek      Main Channel   10884.99       100YR-dummy
        1241.28                     1242.49         213.40
        1874.85     54.83                  19.65      49.65
261     Jackson Creek      Main Channel   10884.99       FLOODWAY
        1242.07            0.79     1243.35          72.40      0.24
        2142.38     48.38        0.00      19.65      49.65       90.00
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262
263     Jackson Creek      Main Channel   10891   BR D   100YR-dummy
        1240.75                    1242.73          65.36
        1925.65      4.03                 19.65      49.65
264     Jackson Creek      Main Channel   10891   BR D   FLOODWAY
        1241.19            0.43    1243.74          24.32
        2189.65      1.35       0.00      19.65      49.65       90.00
265
266     Jackson Creek      Main Channel   10891   BR U   100YR-dummy
        1240.80                    1243.08
        1929.68                              17.42      50.14
267     Jackson Creek      Main Channel   10891   BR U   FLOODWAY
        1241.26            0.46    1244.20
        2191.00                 0.00      17.42      50.14       50.22
268
269     Jackson Creek      Main Channel   10897.78       100YR-dummy
        1241.97                    1243.20          33.55
        1929.09      0.59                 17.42      50.14
270     Jackson Creek      Main Channel   10897.78       FLOODWAY
        1243.33            1.36    1244.39          50.22     19.43
        2171.53      0.04       0.00      17.42      50.14       50.22
271
272     Jackson Creek      Main Channel   10900                        Lat
        Struct
273
274     Jackson Creek      Main Channel   10948.06       100YR-dummy
        1242.35                    1243.51          35.32      0.17
        1958.88      0.20                 48.68      81.37
275     Jackson Creek      Main Channel   10948.06       FLOODWAY
        1243.57            1.22    1244.62          32.69
        2191.00                48.68      48.68      81.37       81.37
276
277     Jackson Creek      Main Channel   10990.71       100YR-dummy
        1242.68                    1243.73          35.50      0.54
        1958.64      0.08                 25.71      58.37
278     Jackson Creek      Main Channel   10990.71       FLOODWAY
        1243.82            1.14    1244.80          32.66
        2191.00                25.71      25.71      58.37       58.37
279
280     Jackson Creek      Main Channel   11018.94       100YR-dummy
        1242.87                    1243.87          34.04      0.08
        1959.16      0.03                 24.66      57.30
281     Jackson Creek      Main Channel   11018.94       FLOODWAY
        1243.97            1.10    1244.92          32.64
        2191.00                24.66      24.66      57.30       57.30
282
283     Jackson Creek      Main Channel   11027.9                      Inl
        Struct
284
285     Jackson Creek      Main Channel   11034.75       100YR-dummy
        1243.45                    1244.39          38.63      1.26
        1957.99      0.01                 24.41      57.05
286     Jackson Creek      Main Channel   11034.75       FLOODWAY
        1244.47            1.02    1245.38          35.54      6.59
        2183.81      0.60       22.46      24.41      57.05       58.00
287
288     Jackson Creek      Main Channel   11366.76       100YR-dummy
        1244.81                    1245.58          38.40      0.04
        1959.21      0.01                 12.82      50.24
289     Jackson Creek      Main Channel   11366.76       FLOODWAY
        1245.65            0.84    1246.43          37.42
        2191.00                12.82      12.82      50.24       50.24
290
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291     Jackson Creek       Main Channel   11748.96        100YR-dummy
        1246.08                     1246.76          42.38
        1959.26                           264.12     308.05
292     Jackson Creek       Main Channel   11748.96        FLOODWAY
        1246.84             0.76    1247.53          43.58
        2191.00                 264.12     264.12     308.05      308.05
293
294     Jackson Creek       Main Channel   11885.36        100YR-dummy
        1246.51                     1247.15          43.54
        1959.26                           248.00     294.09
295     Jackson Creek       Main Channel   11885.36        FLOODWAY
        1247.24             0.73    1247.90          45.27
        2191.00                 248.00     248.00     294.09      294.09
296
297     Jackson Creek       Main Channel   11892   BR D    100YR-dummy
        1246.37                     1247.21          30.74
        1959.26                           248.00     294.09
298     Jackson Creek       Main Channel   11892   BR D    FLOODWAY
        1247.07             0.70    1247.97          30.73
        2191.00                 248.00     248.00     294.09      294.09
299
300     Jackson Creek       Main Channel   11892   BR U    100YR-dummy
        1246.43                     1247.26          31.52
        1959.26                           258.28     295.05
301     Jackson Creek       Main Channel   11892   BR U    FLOODWAY
        1247.13             0.70    1248.02          31.52
        2191.00                 253.62     258.28     295.05      299.71
302
303     Jackson Creek       Main Channel   11900.70        100YR-dummy
        1246.50                     1247.27          35.23
        1959.26                           258.28     295.05
304     Jackson Creek       Main Channel   11900.70        FLOODWAY
        1247.22             0.73    1248.03          37.56
        2191.00      0.00       253.62     258.28     295.05      299.71
305
306     Jackson Creek       Main Channel   12153.40        100YR-dummy
        1247.28                     1248.53          29.46
        1959.26                           105.50     141.39
307     Jackson Creek       Main Channel   12153.40        FLOODWAY
        1247.98             0.70    1249.28          31.76
        2191.00                 105.50     105.50     141.39      141.39
308
309     Jackson Creek       Main Channel   12168   BR D    100YR-dummy
        1247.20                     1248.62          24.43
        1959.26                           105.50     141.39
310     Jackson Creek       Main Channel   12168   BR D    FLOODWAY
        1247.86             0.66    1249.39          24.46
        2191.00                 105.50     105.50     141.39      141.39
311
312     Jackson Creek       Main Channel   12168   BR U    100YR-dummy
        1247.23                     1248.82          23.59
        1959.26                           112.50     153.73
313     Jackson Creek       Main Channel   12168   BR U    FLOODWAY
        1247.89             0.66    1249.59          23.58
        2191.00                 112.50     112.50     153.73      153.73
314
315     Jackson Creek       Main Channel   12184.87        100YR-dummy
        1248.11                     1248.93          39.23
        1959.26                           112.50     153.73
316     Jackson Creek       Main Channel   12184.87        FLOODWAY
        1248.89             0.78    1249.71          40.96
        2191.00                 112.50     112.50     153.73      153.73
317
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318     Jackson Creek       Main Channel   12352.91        100YR-dummy
        1249.03                     1249.09          151.51       2.55
        1956.44       0.28                 40.00      167.00
319     Jackson Creek       Main Channel   12352.91        FLOODWAY
        1249.81             0.78    1249.87          127.00
        2191.00                  40.00      40.00      167.00       167.00
320
321     Jackson Creek       Main Channel   12651.65        100YR-dummy
        1249.06                     1249.20          110.38
        1959.26                           102.70      230.00
322     Jackson Creek       Main Channel   12651.65        FLOODWAY
        1249.83             0.77    1249.97          117.08
        2191.00                 102.70     102.70      230.00       230.00
323
324     Jackson Creek       Main Channel   12799.54        100YR-dummy
        1248.94                     1251.14           37.19
        1959.26                           119.30      168.50
325     Jackson Creek       Main Channel   12799.54        FLOODWAY
        1249.39             0.45    1251.64           40.16
        2191.00                 119.30     119.30      168.50       168.50
326
327     Jackson Creek       Main Channel   12825   BR D    100YR-dummy
        1249.60                     1251.24           41.56
        1959.26                           119.30      168.50
328     Jackson Creek       Main Channel   12825   BR D    FLOODWAY
        1250.05             0.45    1251.74           44.52
        2191.00                 119.30     119.30      168.50       168.50
329
330     Jackson Creek       Main Channel   12825   BR U    100YR-dummy
        1250.67                     1251.71           49.02
        1959.22       0.04                100.30      149.50
331     Jackson Creek       Main Channel   12825   BR U    FLOODWAY
        1251.10             0.43    1252.20           49.20
        2191.00                 100.30     100.30      149.50       149.50
332
333     Jackson Creek       Main Channel   12851.71        100YR-dummy
        1250.68                     1251.72           49.11
        1959.21       0.05                100.30      149.50
334     Jackson Creek       Main Channel   12851.71        FLOODWAY
        1251.11             0.43    1252.21           49.20
        2191.00                 100.30     100.30      149.50       149.50
335
336     Jackson Creek       Main Channel   13087.59        100YR-dummy
        1252.40                     1252.95           77.25
        1959.26                            38.70      144.10
337     Jackson Creek       Main Channel   13087.59        FLOODWAY
        1252.85             0.45    1253.41           81.78
        2191.00                  38.70      38.70      144.10       144.10
338
339     Jackson Creek       Main Channel   13314.60        100YR-dummy
        1253.21                     1254.03           66.27
        1956.38       2.88                 37.15       96.91
340     Jackson Creek       Main Channel   13314.60        FLOODWAY
        1253.61             0.39    1254.49           55.46
        2191.00                  37.15      37.15       96.91        96.91
341
342     Jackson Creek       Main Channel   13447.21        100YR-dummy
        1253.09                     1255.60           32.01
        1942.26      17.00                 25.95       59.05
343     Jackson Creek       Main Channel   13447.21        FLOODWAY
        1253.46             0.37    1256.19           32.60
        2168.27      22.73       25.95      25.95       59.05        65.20
344
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345     Jackson Creek       Main Channel   13618.45        100YR-dummy
        1255.96                     1256.87          40.70
        1857.22    102.04                 19.40       52.90
346     Jackson Creek       Main Channel   13618.45        FLOODWAY
        1256.52             0.55    1257.49          41.51
        2069.87    121.13       19.40      19.40       52.90        63.20
347
348     Jackson Creek       Main Channel   13739.75        100YR-dummy
        1256.51                     1257.32          72.03
        1749.65    209.61                 13.60       46.70
349     Jackson Creek       Main Channel   13739.75        FLOODWAY
        1257.14             0.63    1257.93          62.22
        1904.86    286.15       13.60      13.60       46.70        75.82
350
351     Jackson Creek       Main Channel   14531.71        100YR-dummy
        1260.41                     1262.25          34.02       2.46
        1956.80                           427.52     464.50
352     Jackson Creek       Main Channel   14531.71        FLOODWAY
        1260.83             0.43    1262.86          30.79
        2191.00                 427.52     427.52     464.50       464.50
353
354     Jackson Creek       Main Channel   15002.72        100YR-dummy
        1263.85                     1264.53          97.14       6.54
        1952.72                           746.50     783.19
355     Jackson Creek       Main Channel   15002.72        FLOODWAY
        1264.58             0.73    1265.30          36.69
        2191.00                 746.50     746.50     783.19       783.19
356
357     Jackson Creek       Main Channel   15069.27        100YR-dummy
        1263.80                     1264.92          33.78       0.34
        1654.92                             7.50      38.30
358     Jackson Creek       Main Channel   15069.27        FLOODWAY
        1264.53             0.73    1265.71          30.78
        1887.00                   7.50       7.50      38.30        38.30
359
360     Jackson Creek       Main Channel   15288.48        100YR-dummy
        1265.55                     1266.02          64.27       1.69
        1653.57                            63.50     115.27
361     Jackson Creek       Main Channel   15288.48        FLOODWAY
        1266.28             0.73    1266.76          51.77
        1887.00                  63.50      63.50     115.27       115.27
362
363     Jackson Creek       Main Channel   15319.58        100YR-dummy
        1265.39                     1266.28          62.42     105.92
        1549.34                            38.55      62.77
364     Jackson Creek       Main Channel   15319.58        FLOODWAY
        1266.10             0.71    1267.01          62.77     164.24
        1722.76                   0.00      38.55      62.77        62.77
365
366     Jackson Creek       Main Channel   15345
        Culvert
367
368     Jackson Creek       Main Channel   15372.82        100YR-dummy
        1267.07                     1267.39         228.46      22.42
        1558.40     74.44                  45.58      89.81
369     Jackson Creek       Main Channel   15372.82        FLOODWAY
        1267.99             0.92    1268.36          70.00      15.76
        1843.79     27.45       33.00      45.58      89.81       103.00
370
371     Jackson Creek       Main Channel   15411.86        100YR-dummy
        1266.97                     1267.58          49.96       0.05
        1655.21                            95.15     144.19
372     Jackson Creek       Main Channel   15411.86        FLOODWAY
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372     1267.94             0.97     1268.51          53.20      2.09
        1884.91                 90.85      95.15     144.19      154.19
373
374     Jackson Creek       Main Channel   15857.49       100YR-dummy
        1268.90                     1269.39          57.22
        1655.26                             123.50     188.59
375     Jackson Creek       Main Channel   15857.49       FLOODWAY
        1269.52             0.62     1270.03          60.47
        1887.00                123.50     123.50     188.59      188.59
376
377     Jackson Creek       Main Channel   15890   BR D   100YR-dummy
        1268.41                     1269.39          51.77
        1655.26                             123.50     188.59
378     Jackson Creek       Main Channel   15890   BR D   FLOODWAY
        1268.41             0.00     1270.03          51.77
        1887.00                123.50     123.50     188.59      188.59
379
380     Jackson Creek       Main Channel   15890   BR U   100YR-dummy
        1268.41                     1269.84
        1655.26                             133.50     198.59
381     Jackson Creek       Main Channel   15890   BR U   FLOODWAY
        1268.41             0.00     1270.75
        1887.00                133.50     133.50     198.59      198.59
382
383     Jackson Creek       Main Channel   15919.80       100YR-dummy
        1269.44                     1269.85          60.07
        1655.26                             133.50     198.59
384     Jackson Creek       Main Channel   15919.80       FLOODWAY
        1270.38             0.93     1270.75          64.34
        1887.00                133.50     133.50     198.59      198.59
385
386     Jackson Creek       Main Channel   16403.44       100YR-dummy
        1270.77                     1271.16          60.37
        1655.26                             124.50     220.93
387     Jackson Creek       Main Channel   16403.44       FLOODWAY
        1271.51             0.74     1271.90          64.36
        1887.00                124.50     124.50     220.93      220.93
388
389     Jackson Creek       Main Channel   16942.29       100YR-dummy
        1272.44                     1275.13          23.24
        1655.26                             267.96     303.96
390     Jackson Creek       Main Channel   16942.29       FLOODWAY
        1273.01             0.57     1275.86          24.28
        1887.00                267.96     267.96     303.96      303.96
391
392     Jackson Creek       Main Channel   17591.36       100YR-dummy
        1279.62                     1280.21          35.45
        1655.26                             289.21     328.05
393     Jackson Creek       Main Channel   17591.36       FLOODWAY
        1280.39             0.77     1281.02          64.30
        1884.31      2.69      289.21     289.21     328.05      354.00
394
395     Jackson Creek       Main Channel   17620.46       100YR-dummy
        1278.94                     1281.30          22.15
        1655.26                             293.02     323.00
396     Jackson Creek       Main Channel   17620.46       FLOODWAY
        1279.76             0.82     1282.06          28.56
        1887.00                280.00     293.02     323.00      340.00
397
398     Jackson Creek       Main Channel   17645
        Culvert
399
400     Jackson Creek       Main Channel   17671.40       100YR-dummy
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400     1280.37                     1282.18          40.82      1.57
        1653.69                          295.40      316.70
401     Jackson Creek      Main Channel   17671.40       FLOODWAY
        1281.21            0.84     1282.96          45.70     51.50
        1835.50                270.00     295.40      316.70      330.00
402
403     Jackson Creek      Main Channel   17710                        Lat
        Struct
404
405     Jackson Creek      Main Channel   17716.39       100YR-dummy
        1282.46                     1282.79          43.90      0.24
        1688.50                          269.31      312.90
406     Jackson Creek      Main Channel   17716.39       FLOODWAY
        1283.18            0.72     1283.53          43.90      0.56
        1886.44                259.00     269.31      312.90      323.00
407
408     Jackson Creek      Main Channel   17857.52       100YR-dummy
        1282.41                     1283.69          24.95      5.36
        1678.91      4.47                213.50      228.50
409     Jackson Creek      Main Channel   17857.52       FLOODWAY
        1283.06            0.66     1284.47          29.73     14.09
        1858.52     14.40      180.00     213.50      228.50      240.00
410
411     Jackson Creek      Main Channel   17895
        Culvert
412
413     Jackson Creek      Main Channel   17931.56       100YR-dummy
        1284.29                     1285.40          59.00
        1614.37     74.37                92.00      107.70
414     Jackson Creek      Main Channel   17931.56       FLOODWAY
        1285.17            0.89     1286.18          59.00
        1698.47    188.53       82.00      92.00      107.70      151.00
415
416     Jackson Creek      Main Channel   17950                        Lat
        Struct
417
418     Jackson Creek      Main Channel   17994.36       100YR-dummy
        1285.60                     1285.79          93.00     32.06
        1748.53                          91.00      147.06
419     Jackson Creek      Main Channel   17994.36       FLOODWAY
        1286.35            0.75     1286.53          65.00     15.24
        1871.76                 82.00      91.00      147.06      147.06
420
421     Jackson Creek      Main Channel   18960                        Lat
        Struct
422
423     Jackson Creek      Main Channel   18967.88       100YR-dummy
        1286.71                     1287.16          54.68
        1887.00                          220.50      284.46
424     Jackson Creek      Main Channel   18967.88       FLOODWAY
        1287.27            0.57     1287.65          54.55
        1887.00                225.09     220.50      284.46      279.64
425
426     Jackson Creek      Main Channel   20090.33       100YR-dummy
        1292.83                     1296.59          16.00
        1887.00                         1016.25     1057.88
427     Jackson Creek      Main Channel   20090.33       FLOODWAY
        1292.82           -0.01     1296.59          16.00
        1887.00               1016.25    1016.25     1057.88     1057.88
428
429     Jackson Creek      Main Channel   20128
        Culvert
430
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431     Jackson Creek       Main Channel   20166.90        100YR-dummy
        1299.95                     1301.09          15.67
        1887.00                          1152.50    1202.36
432     Jackson Creek       Main Channel   20166.90        FLOODWAY
        1299.95             0.00     1301.09          15.67
        1887.00                1152.50    1152.50    1202.36     1202.36
433
434     Jackson Creek       Main Channel   20198.01        100YR-dummy
        1301.02                     1301.23          87.22       0.09
        1879.57       7.33               1144.75    1197.20
435     Jackson Creek       Main Channel   20198.01        FLOODWAY
        1301.01             0.00     1301.23          52.45
        1887.00                1144.75    1144.75    1197.20     1197.20
436
437     Jackson Creek       Main Channel   20208.45        100YR-dummy
        1301.00                     1301.25          65.52
        1886.31       0.69               1067.75    1120.20
438     Jackson Creek       Main Channel   20208.45        FLOODWAY
        1301.00             0.00     1301.25          50.66
        1887.00                1067.75    1067.75    1120.20     1120.20
439
440     Jackson Overbank    Upper Main      0.15           100YR-dummy
        1237.71                     1237.74         413.21
        2168.76                            0.00      413.56
441     Jackson Overbank    Upper Main      0.15           FLOODWAY
        1238.64             0.93     1238.66         254.65
        1220.00                158.56       0.00      413.56      413.56
442
443     Jackson Overbank    Upper Main      0.20           100YR-dummy
        1237.74                     1237.76         634.56     12.65
        2156.11                           -2.01      631.16
444     Jackson Overbank    Upper Main      0.20           FLOODWAY
        1238.65             0.92     1238.66         381.65
        1220.00                248.00      -2.01      631.16      629.65
445
446     Jackson Overbank    Upper Main      0.25           100YR-dummy
        1237.76                     1237.80         609.55   1671.98
        496.62       0.16               547.18      610.10
447     Jackson Overbank    Upper Main      0.25           FLOODWAY
        1238.61             0.85     1238.76         107.09    147.00
        1072.11       0.89     505.00     547.18      610.10      612.09
448
449     Jackson Overbank    Upper Main      0.275157       100YR-dummy
        1237.83                     1237.91         711.82   1188.92
        737.74       2.68               634.89      695.89
450     Jackson Overbank    Upper Main      0.275157       FLOODWAY
        1238.81             0.98     1239.01         104.99    130.25
        1060.98      28.77     610.89     634.89      695.89      715.88
451
452     Jackson Overbank    Upper Main      160.5392       100YR-dummy
        1238.04                     1238.28         789.19    320.64
        1001.00                           731.45      791.41
453     Jackson Overbank    Upper Main      160.5392       FLOODWAY
        1239.03             0.99     1239.28          75.50     71.88
        1145.52       2.60     719.50     731.45      791.41      795.00
454
455     Jackson Overbank    Upper Main      265.4884       100YR-dummy
        1238.35                     1238.73         848.77    255.82
        1065.82                           786.17      849.11
456     Jackson Overbank    Upper Main      265.4884       FLOODWAY
        1239.18             0.83     1239.56          62.94
        1220.00                786.17     786.17      849.11      849.11
457
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458     Jackson Overbank   Upper Main     401.5288       100YR-dummy
        1239.02                    1239.17         923.35    426.28
        823.31                          863.33     924.29
459     Jackson Overbank   Upper Main     401.5288       FLOODWAY
        1239.62            0.60     1239.96          63.96     14.72
        1205.28                860.33     863.33     924.29      924.29
460
461     Jackson Overbank   Upper Main     579.144        100YR-dummy
        1239.38                    1239.76         411.72    213.51
        1036.08                         981.97    1043.94
462     Jackson Overbank   Upper Main     579.144        FLOODWAY
        1240.11            0.73     1240.52          61.97
        1220.00                981.97     981.97    1043.94     1043.94
463
464     Jackson Overbank   Upper Main     783.8261       100YR-dummy
        1240.49                    1240.71         559.22    439.80
        780.20                         1093.56    1155.53
465     Jackson Overbank   Upper Main     783.8261       FLOODWAY
        1240.96            0.47     1241.54          61.97
        1220.00               1093.56    1093.56    1155.53     1155.53
466
467     Jackson Overbank   Upper Main     1002.145       100YR-dummy
        1241.39                    1241.73         502.74    229.26
        990.74                         1191.48    1254.26
468     Jackson Overbank   Upper Main     1002.145       FLOODWAY
        1242.18            0.79     1242.58          62.78
        1220.00               1191.48    1191.48    1254.26     1254.26
469
470     Jackson Overbank   Upper Main     1117.801       100YR-dummy
        1242.04                    1242.25         431.44    431.83
        788.17                         1270.28    1335.06
471     Jackson Overbank   Upper Main     1117.801       FLOODWAY
        1242.60            0.56     1243.10          64.77
        1220.00               1270.28    1270.28    1335.06     1335.06
472
473     Jackson Overbank   Upper Main     1249.037       100YR-dummy
        1242.63                    1242.99         392.59    355.00
        865.00                         1366.99    1432.01
474     Jackson Overbank   Upper Main     1249.037       FLOODWAY
        1243.33            0.70     1243.91          65.00
        1220.00               1366.99    1366.99    1432.01     1432.01
475
476     Jackson Overbank   Upper Main     1358.697       100YR-dummy
        1243.37                    1243.84         367.84    164.47
        1055.53      0.00                1453.71    1520.70
477     Jackson Overbank   Upper Main     1358.697       FLOODWAY
        1244.08            0.71     1244.53          66.99
        1220.00               1453.71    1453.71    1520.70     1520.70
478
479     Jackson Overbank   Upper Main     1495.177       100YR-dummy
        1244.29                    1244.56         478.11    224.10
        995.90                         1545.16    1619.86
480     Jackson Overbank   Upper Main     1495.177       FLOODWAY
        1244.74            0.44     1245.09          74.69
        1220.00               1545.16    1545.16    1619.86     1619.86
481
482     Jackson Overbank   Upper Main     1646.261       100YR-dummy
        1244.87                    1245.47         123.27     43.64
        1176.36                         1507.32    1577.27
483     Jackson Overbank   Upper Main     1646.261       FLOODWAY
        1245.31            0.44     1245.80          69.95
        1220.00               1507.32    1507.32    1577.27     1577.27
484
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485     Jackson Overbank   Upper Main     1757.488       100YR-dummy
        1245.46                    1245.99         124.44     20.46
        1159.28                          139.40     213.22
486     Jackson Overbank   Upper Main     1757.488       FLOODWAY
        1245.69            0.23     1246.20          73.30
        1220.00                139.40     139.40     213.22      213.22
487
488     Jackson Overbank   Upper Main     1866.284       100YR-dummy
        1246.29                    1246.84         130.88     38.13
        1141.61                          129.92     205.87
489     Jackson Overbank   Upper Main     1866.284       FLOODWAY
        1246.41            0.12     1247.00          74.90
        1220.00                129.92     129.92     205.87      205.87
490
491     Jackson Overbank   Upper Main     2019.163       100YR-dummy
        1247.40                    1247.83         129.00     15.78
        1163.96                          127.92     204.87
492     Jackson Overbank   Upper Main     2019.163       FLOODWAY
        1247.53            0.13     1247.97          73.64
        1220.00                127.92     127.92     204.87      204.87
493
494     Jackson Overbank   Upper Main     2178.49        100YR-dummy
        1248.23                    1248.70         115.25      8.11
        1171.63                          129.63     203.43
495     Jackson Overbank   Upper Main     2178.49        FLOODWAY
        1248.34            0.10     1248.82          73.07
        1220.00                129.63     129.63     203.43      203.43
496
497     Jackson Overbank   Upper Main     2350.68        100YR-dummy
        1249.23                    1249.72         107.85      6.30
        1173.44                          130.60     203.40
498     Jackson Overbank   Upper Main     2350.68        FLOODWAY
        1249.31            0.08     1249.81          72.14
        1220.00                130.60     130.60     203.40      203.40
499
500     Jackson Overbank   Upper Main     2564.282       100YR-dummy
        1250.50                    1250.97         104.08      8.91
        1170.83                          128.85     205.76
501     Jackson Overbank   Upper Main     2564.282       FLOODWAY
        1250.58            0.07     1251.06          73.60
        1220.00                128.85     128.85     205.76      205.76
502
503     Jackson Overbank   Upper Main     2732.759       100YR-dummy
        1251.26                    1251.70          68.81      2.92
        1176.82                          144.91     199.88
504     Jackson Overbank   Upper Main     2732.759       FLOODWAY
        1251.35            0.08     1251.80          51.82
        1220.00                144.91     144.91     199.88      199.88
505
506     Jackson Overbank   Upper Main     2832.344       100YR-dummy
        1251.59                    1252.09          58.58      3.54
        1176.20                           72.63     127.37
507     Jackson Overbank   Upper Main     2832.344       FLOODWAY
        1251.68            0.09     1252.19          52.64
        1220.00                 72.63      72.63     127.37      127.37
508
509     Jackson Overbank   Upper Main     3067.819       100YR-dummy
        1252.49                    1252.92          47.24
        1179.74                            2.89      57.31
510     Jackson Overbank   Upper Main     3067.819       FLOODWAY
        1252.59            0.10     1253.03          47.48
        1220.00                  2.89       2.89      57.31       57.31
511
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512     Jackson Overbank   Upper Main     3143.447       100YR-dummy
        1252.76                    1253.15          47.92
        1179.74                              9.81      64.24
513     Jackson Overbank   Upper Main     3143.447       FLOODWAY
        1252.86            0.10     1253.26          48.22
        1220.00                  9.81       9.81      64.24       64.24
514
515     Jackson Overbank   Upper Main     3341.924       100YR-dummy
        1253.26                    1253.67         151.75     10.81
        1184.01                             11.68      66.44
516     Jackson Overbank   Upper Main     3341.924       FLOODWAY
        1253.37            0.10     1253.79          46.86
        1220.00                 11.68      11.68      66.44       66.44
517
518     Jackson Overbank   Upper Main     3370.57        100YR-dummy
        1254.00                    1254.51         294.51    350.70
        869.13      0.17                   17.79      70.25
519     Jackson Overbank   Upper Main     3370.57        FLOODWAY
        1254.03            0.04     1255.33          52.46
        1220.00                 17.79      17.79      70.25       70.25
520
521     Jackson Overbank   Upper Main     3639.008       100YR-dummy
        1255.21                    1255.40         271.83     82.64
        1135.25      2.11                  405.14     470.75
522     Jackson Overbank   Upper Main     3639.008       FLOODWAY
        1256.02            0.81     1256.20          65.61
        1220.00                405.14     405.14     470.75      470.75
523
524
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EXHIBIT "D"

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 10. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by Jackson County GIS Services, State of Oregon OLCD, and the National Geodetic Survey. This information was compiled at various map scales during the time period 2003-2008.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the *Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

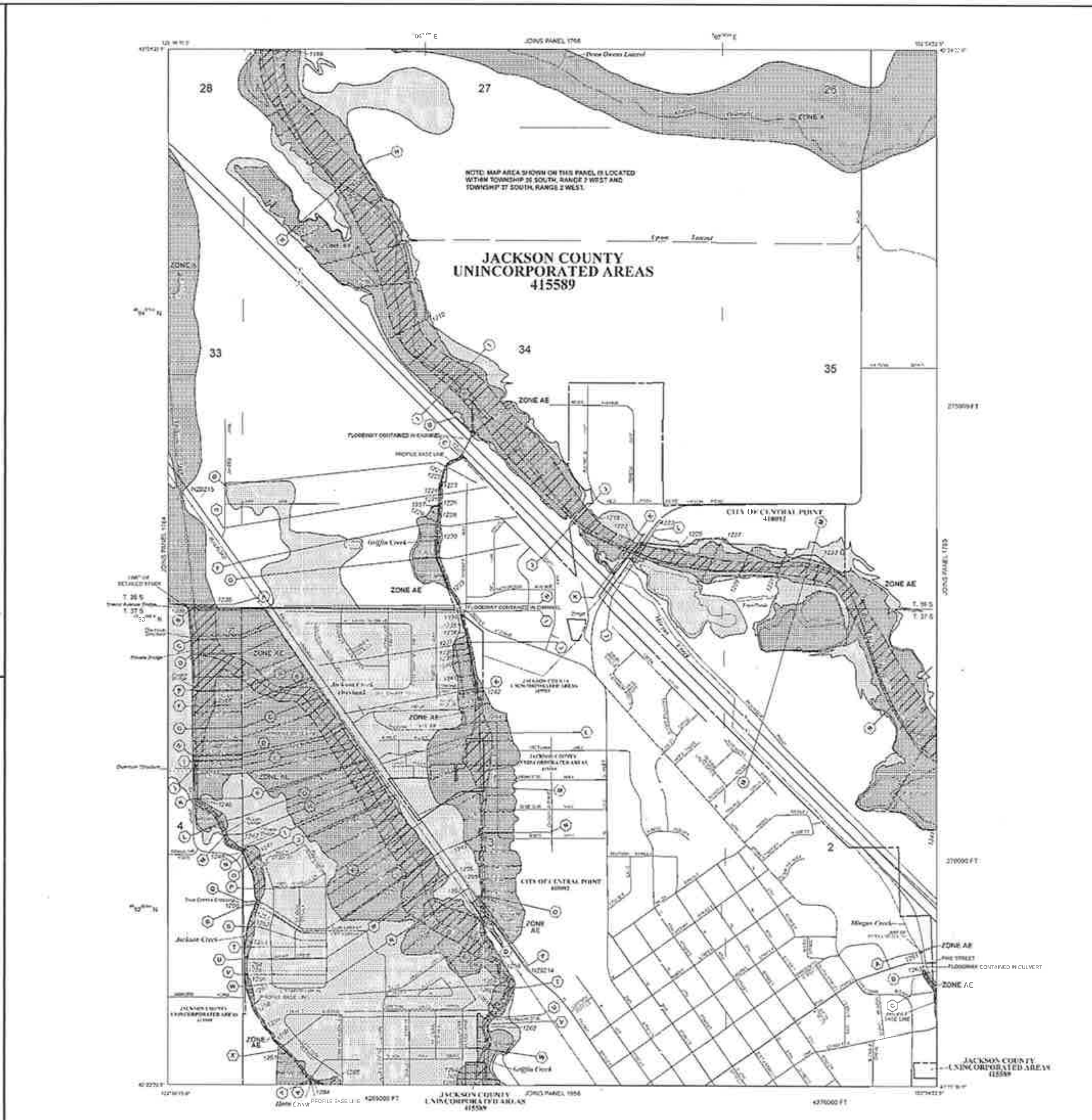
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Information eXchange at 1-877-FEMA MAP (1-877-336-2627) for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Information eXchange may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.

The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the profile baseline, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X

ZONE D

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities

6000000 FT — 5000-foot grid ticks: Oregon State Plane coordinate system, south zone (FIPSZONE 3602), Lambert Conformal Conic

Bench mark (see explanation in Notes to Users section of this FIRM panel)

Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
May 3, 2011
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1768F

FIRM
FLOOD INSURANCE RATE MAP
JACKSON COUNTY, OREGON
AND INCORPORATED AREAS

PANEL 1768 OF 2327
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
JACKSON COUNTY	415589	1768	F
CENTRAL POINT, CITY OF	410092	1768	F

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
41029C1768F

EFFECTIVE DATE
MAY 3, 2011

Federal Emergency Management Agency

372W03BD 3302
DEGEORGE ROBERT M/REBECCA L
1078 N HASKELL ST
CENTRAL POINT OR 97502

372W03BC 500
SCOTT BROCK
3600 FOOTS CREEK RD
GOLD HILL OR 97525

372W03BC 600
CHEEK RONALD L ET AL
525 BUCK POINT ST
CENTRAL POINT OR 97502

372W03BC 700
FORREST CHRISTIE R
PO BOX 1166
JACKSONVILLE OR 97530

372W03BD 3303
EVERSMANN ROBERT L/JANIS L
1070 N HASKELL ST
CENTRAL POINT OR 97502

372W03CA 705
HERGERT CAROL S
650 GOLDEN PEAK DR
CENTRAL POINT OR 97502

372W03CA 703
MOCKOSKI LOVING TRUST ET AL
660 GOLDEN PEAK DR
CENTRAL POINT OR 97502

372W03CA 704
BRODERICK LIVING TRUST ET AL
658 GOLDEN PEAK DR
CENTRAL POINT OR 97502

372W03CA 702
DRAGICH MADELINE
668 GOLDEN PEAK DR
CENTRAL POINT OR 97502

372W03BD 1600
BUCHANAN JESHUA D/JAEMI D
1142 N HASKELL ST
CENTRAL POINT OR 97502

372W03CA 701
HALE LORITA JOANNE TRUSTEE ET AL
676 GOLDEN PEAK DR
CENTRAL POINT OR 97502

372W03BD 2100
SORENSEN LYNDA
1134 N HASKELL ST
CENTRAL POINT OR 97502

372W03CA 700
ELLIS FAMILY TRUST ET AL
684 GOLDEN PEAK DR
CENTRAL POINT OR 97502

372W03CA 801
ROLLINS JESSICA LYN
534 GOLDEN PEAK DR
CENTRAL POINT OR 97502

372W03CB 7104
AMIDON ROBERT MICHAEL/SUSAN OLSON
700 GOLDEN PEAK DR
CENTRAL POINT OR 97502

372W03BD 2200
TRAVISS RICHARD/KATHY
1126 N HASKELL ST
CENTRAL POINT OR 97502

372W03CB 7103
WINTER SEAN M/KRISTEN M
PO BOX 5052
CENTRAL POINT OR 97502

372W03BD 2700
AUSTIN WENDY M
1118 N HASKELL ST
CENTRAL POINT OR 97502

372W03CB 7300
TWIN CREEKS RETIREMENT LP
4701 SW ADMIRAL WAY #174
SEATTLE WA 98116

372W03BD 3300
GODSHALL ANNE L/STEPHEN P
1094 N HASKELL ST
CENTRAL POINT OR 97502

372W03CA 1300
CENTRAL POINT CITY OF
140 S 3RD ST
CENTRAL POINT OR 97502

372W03BD 2800
PHILLIPS JOHN E/MARIE ANNICE
1110 N HASKELL ST
CENTRAL POINT OR 97502

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CENTRAL POINT OR 97502

372W03BC 600
CHEEK RONALD L ET AL
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372W03CA 705
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CENTRAL POINT OR 97502

372W03CA 702
DRAGICH MADELINE
668 GOLDEN PEAK DR
CENTRAL POINT OR 97502

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CENTRAL POINT OR 97502

372W03CA 1300
CENTRAL POINT CITY OF
140 S 3RD ST
CENTRAL POINT OR 97502

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