

Application for a Scioto County Floodplain Development Permit

IMPORTANT REMINDERS

1. Applying for a Special Flood Hazard Area Development Permit does not constitute the granting of a permit. Development within the floodplain is regulated and must comply with local, state and federal rules and statutes. **No application will be reviewed until all submittal requirements listed below have been provided:**
2. Completion of the application process requires:
 - A. Submission of a completed **Special Flood Hazard Area Development Permit Application**, which must be signed and dated.
 - B. Submission of an **Elevation Certificate** with an original surveyor's seal and signature (*Xerox copies or fax copies are not acceptable in lieu of an original*).
 - C. Submission of a **Site Plan** depicting the location of the proposed or existing project. Some of the key elements of a Site Plan are property boundaries, floodplain boundaries, land topography, proposed and/or existing structures, easements, wells and roadways. A Site Plan does not have to be done by a professional, but it must be accurate, understandable and complete.
 - D. **Detailed Description** of the proposed project.
 - E. If your property is located in **Flood Zone A** (*where Base Flood Elevation is not available*), your structure's lowest floor, including basement, must be elevated to at least two (2) feet above the highest adjacent natural grade.
 - F. If your property is located in **Flood Zone AE** (*where Base Flood Elevation is available*), your structure's lowest floor, including basement, must be elevated to or above the Base Flood Elevation.
 - G. **Fully enclosed areas below the lowest floor** require at least a minimum of two (2) openings, having a total net area of not less than 1 square inch per square foot of enclosed area. The bottom of the openings shall be no higher than 1 foot above grade. Openings may be equipped with screens, louvers, valves or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.
 - H. Description of how **building utilities** will be protected from flood waters.
 - I. Detailed description of anchoring system for all **mobile and manufactured homes**.
 - J. All development proposals determined to be located in a **floodway** must be accompanied by a hydrologic and hydraulic analysis showing impacts on the development on flood heights (*can only be completed by a Registered Professional Engineer*).
3. Construction and modifications are limited to those covered in the original application for the floodplain development permit. Other changes require a separate application.
4. Please mail the above required documents to:
Scioto County Floodplain Office
Kendra Hobson, Manager
617 Court Street
Portsmouth, OH 45662
5. Questions? Call Kendra Hobson at the Floodplain Office - **(740) 355-1274**

It is a violation of the Scioto County Floodplain Regulations to alter the floodplain or to construct / occupy a residence or business without completing the Special Flood Hazard Development Permit Application process. Failure to comply may lead to your inability to obtain flood insurance, the issuance of a stop work order, or the pursuance of other civil actions that the County considers necessary to ensure compliance with the resolution. In addition, failure to comply with the floodplain regulations constitutes a violation of division (D) of section 307.37 of the Ohio Revised Code.

SPECIAL FLOOD HAZARD AREA DEVELOPMENT PERMIT APPLICATION

Community Name: Scioto County Date: _____ Application #: _____

The undersigned hereby makes application for a permit to develop in a designated floodplain area. The work to be performed is described below and in attachments hereto. The undersigned agrees that all such work shall be done in accordance with the requirements of the Flood Damage Prevention Ordinance Resolution dated **September 19, 2002** of **Scioto County** and with all other applicable local, State and Federal regulations. This application does not create liability on the part of Scioto County or any officer or employee thereof for any flood damage that results from reliance on this application or any administrative decision made lawfully thereunder. The applicant understands and agrees that:

- this permit is issued on the conditions and facts described;
- any permit may be repealed if conditions or facts change;
- permit will remain valid for one (1) year from date of issuance.

Section A: Owner and Property Information

Owner's Name: Ohio Department of Transportation District 9 Phone: Tom Barnitz 740-774-8877

Owner's Address: 650 Eastern Ave

City: Chillicothe State: Ohio Zip: 45601

Builder: To Be Determined after bid awarded Phone: _____

Builder's Address: _____

City: _____ State: _____ Zip: _____

Address of Property: 9353 SR 139 Minford Ohio

Parcel #: 07-1374.000 07-0969.000 Township of Property Location: Harrison

Section B: Description of Work

Proposed Development Description (*check all that apply*):

- | | | | |
|---------------------------------------|---|-------------------------------------|--|
| <input type="checkbox"/> New Building | <input type="checkbox"/> Existing Structure | <input type="checkbox"/> Fill | <input type="checkbox"/> Watercourse Alteration |
| <input type="checkbox"/> Residential | <input type="checkbox"/> Non-Residential | <input type="checkbox"/> Alteration | <input type="checkbox"/> Addition |
| <input type="checkbox"/> Excavation | <input type="checkbox"/> Manufactured Home | <input type="checkbox"/> Storage | <input checked="" type="checkbox"/> Other (<i>describe</i>) New Bridge |

Date of Construction, Installation or Development: TBD - Multi year construction 2013 to 2014

If the proposed construction is an alteration, addition or improvement to an existing structure, indicate the cost of proposed construction: \$ 4,635,975.77. What is the estimated value of existing structure: \$ n/a. Bridge construction estimate

Type of foundation:

- Slab-on-grade Basement Crawl Space Enclosed area not sub-grade
 Other (describe): Dual Slab Footings on bedrock

Does proposed development involve a subdivision or other development containing at least 50 lots or 5 acres (whichever is less)? Yes No

Section C: Floodplain Information

Is the proposed development in a Special Flood Hazard Area (Zone A or AE)? Yes No

Per the Flood Insurance Rate Map (FIRM), what is the zone and panel number of the area of the proposed development?

Zone: A Panel #: 39145C0260E Effective Date: April 18, 2011

Is the proposed development in an identified floodway? Yes No

Construction activities of bridge and culvert relocation

If yes, has a No-Rise Certification been obtained? Please attach. Yes No

No BFE established

Base Flood Elevation (BFE) at the site (if applicable): Calculated 100 yr - 632.3

Required Lowest Floor Elevation (including basement): N/A

I agree that all statements in and attachments to this application are a true description of the existing property and the proposed development activity. I understand the development requirements for special flood hazard area activities per the appropriate ordinance (resolution) and agree to abide thereto. I understand it is my responsibility to obtain all applicable federal, state and local permits.

Applicant's Signature: *Mathis A. Lane* Date: Feb 8, 2012

***** Reminder *****

Have you attached the following required documents?

Elevation Certificate N/A Site Plan

FOR OFFICE USE ONLY

Application Approved Permit Issued On: _____ Permit #: _____

Application Denied Reason for Denial: _____

Floodplain Manager Signature: _____ Date: _____

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of Ohio. It is to further certify that the attached technical data supports the fact that proposed development: SCI-823-6.81, Bridge SCI-823-0917 Left and Right in the floodway will not increase the Base Flood Elevations (100-year flood), floodway elevations and the floodway widths on Long Run at published sections in the Flood Insurance Study for Scioto County and Incorporated Areas, dated April 18, 2011 and will not increase the Base Flood Elevations (100-year flood), floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Date: February 8, 2012

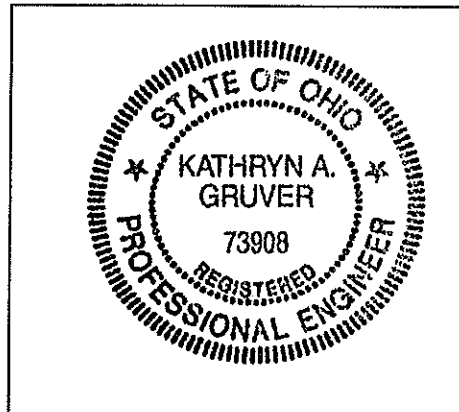
Signature: Kathryn A Gruver

Phone Number: (513)984-7599 **EMAIL:** Kathryn.Gruver@hdrinc.com

Representing: Ohio Department of Transportation and HDR Engineering Inc

Address: 9987 Carver Road Suite 200

City Cincinnati **State** Ohio **Zip Code** 45242



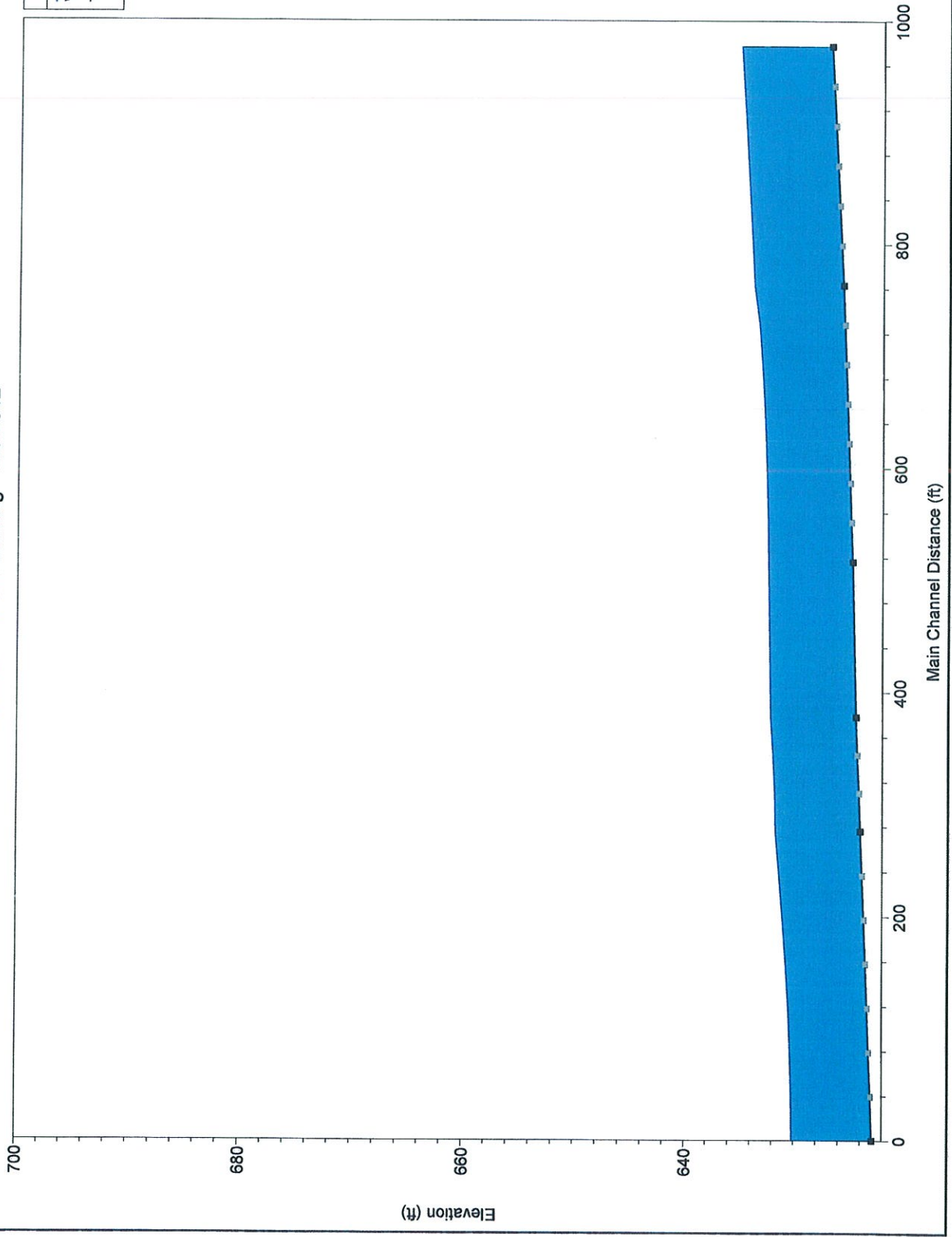
CERTIFYING SEAL OR STAMP

**TECHNIQUES FOR ESTIMATING FLOOD-PEAK
DISCHARGES OF RURAL, UNREGULATED STREAMS IN OHIO AREA A**
U.S. GEOLOGICAL SURVEY Water Resources Investigations Report 89-4126

	Values	Units	Definitions
	368502400.00	SQ. FT.	
	13.218	SQ. MI.	CONTDA = Contributing Drainage Area
	0.00	SQ. FT.	
	2.00	%	STORAGE = Storage Area
	34663.00	FT.	TOTAL CHANNEL LENGTH
	3466.30	FT.	L₁₀ = 10% of the Distance along channel
	649	FT.	Elev₁₀ = Elevation at point L ₁₀
	29463.55	FT.	L₈₅ = 85% of the Distance along channel
	960	FT.	Elev₈₅ = Elevation at point L ₈₅
	25997.25	FT.	Length = L ₈₅ - L ₁₀
	63.16	FT./MI.	SLOPE = (Elev ₁₀ -Elev ₈₅)/Length
		CFS	Q_# = Flood-Peak Discharge # = Frequency of Storm
Q₂	622	CFS	= 56.1(CONTDA) ^{0.782} (SLOPE) ^{0.172} (STORAGE+1) ^{-0.297}
Q₅	1080	CFS	= 84.5(CONTDA) ^{0.769} (SLOPE) ^{0.221} (STORAGE+1) ^{-0.322}
Q₁₀	1423	CFS	= 104(CONTDA) ^{0.764} (SLOPE) ^{0.244} (STORAGE+1) ^{-0.335}
Q₂₅	1873	CFS	= 129(CONTDA) ^{0.760} (SLOPE) ^{0.264} (STORAGE+1) ^{-0.347}
Q₅₀	2221	CFS	= 148(CONTDA) ^{0.757} (SLOPE) ^{0.276} (STORAGE+1) ^{-0.355}
Q₁₀₀	2572	CFS	= 167(CONTDA) ^{0.756} (SLOPE) ^{0.285} (STORAGE+1) ^{-0.363}

484+75 Plan: Existing 2/6/2012

Legend	
WS 100 Year	—
Ground	—■

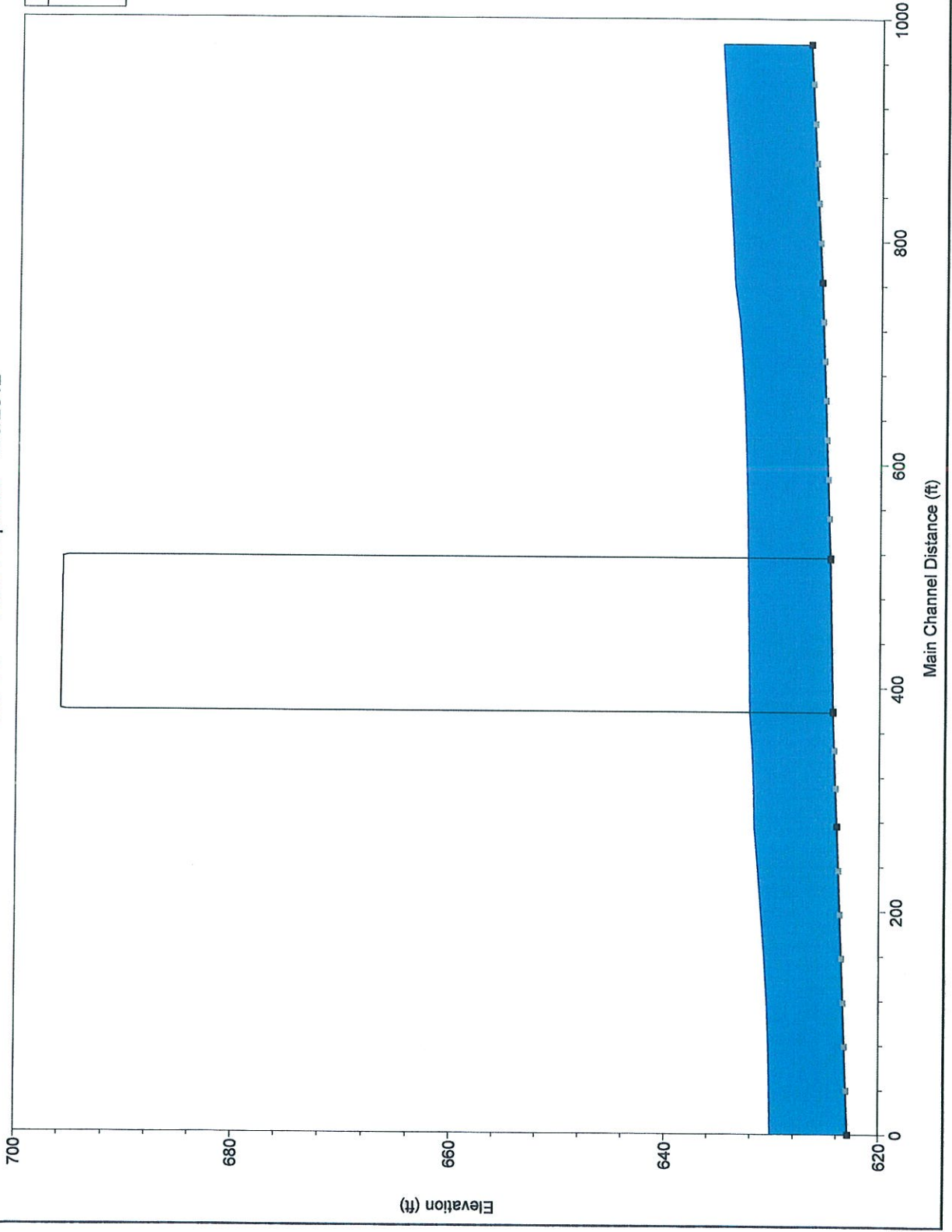


HEC-RAS Plan: Existing River: RIVER-1 Reach: Reach-1 Profile: 100 Year

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach-1	2253	100 Year	2572.00	626.70	634.90		635.62	0.005581	7.29	438.82	199.87	0.58
Reach-1	2216.33*	100 Year	2572.00	626.52	634.69		635.42	0.005705	7.35	434.34	201.52	0.58
Reach-1	2179.86*	100 Year	2572.00	626.33	634.48		635.22	0.005800	7.38	431.61	203.81	0.58
Reach-1	2143.*	100 Year	2572.00	626.15	634.26		635.01	0.005919	7.41	429.31	207.82	0.59
Reach-1	2106.33*	100 Year	2572.00	625.97	634.05		634.80	0.005944	7.38	431.65	211.05	0.59
Reach-1	2069.66*	100 Year	2572.00	625.78	633.86		634.58	0.005851	7.28	439.28	215.10	0.58
Reach-1	2033	100 Year	2572.00	625.60	633.68		634.37	0.005649	7.11	452.91	220.85	0.56
Reach-1	1997.14*	100 Year	2572.00	625.47	633.21		634.13	0.007040	7.94	376.91	194.11	0.63
Reach-1	1961.28*	100 Year	2572.00	625.34	632.93	631.09	633.89	0.006845	7.99	353.02	167.23	0.63
Reach-1	1925.42*	100 Year	2572.00	625.21	632.73		633.64	0.006139	7.77	352.22	108.75	0.61
Reach-1	1889.57*	100 Year	2572.00	625.09	632.57		633.42	0.005374	7.46	364.59	108.68	0.58
Reach-1	1853.71*	100 Year	2572.00	624.96	632.45		633.22	0.004598	7.08	384.50	117.43	0.54
Reach-1	1817.85*	100 Year	2572.00	624.83	632.37		633.04	0.003769	6.66	414.11	126.48	0.49
Reach-1	1782	100 Year	2572.00	624.70	632.32		632.90	0.003023	6.19	455.60	141.79	0.45
Reach-1	1690	100 Year	2572.00	624.40	632.11		632.49	0.001744	5.25	587.15	163.42	0.35
Reach-1	1654.33*	100 Year	2572.00	624.27	631.87		632.40	0.002609	6.00	497.27	177.92	0.42
Reach-1	1618.66*	100 Year	2572.00	624.13	631.72		632.30	0.003147	6.24	471.65	172.32	0.46
Reach-1	1583	100 Year	2572.00	624.00	631.65		632.18	0.002992	5.98	496.93	178.65	0.44
Reach-1	1542.14*	100 Year	2572.00	623.85	631.30		632.02	0.004360	6.80	390.48	112.59	0.53
Reach-1	1501.28*	100 Year	2572.00	623.69	631.00		631.82	0.005459	7.25	356.24	84.05	0.59
Reach-1	1460.42*	100 Year	2572.00	623.54	630.70		631.58	0.006299	7.52	342.01	75.91	0.62
Reach-1	1419.57*	100 Year	2572.00	623.38	630.46		631.33	0.006201	7.47	344.27	76.70	0.62
Reach-1	1378.71*	100 Year	2572.00	623.23	630.29		631.08	0.005390	7.13	360.95	78.57	0.58
Reach-1	1337.85*	100 Year	2572.00	623.07	630.19		630.86	0.004187	6.55	393.96	82.76	0.51
Reach-1	1297	100 Year	2572.00	622.92	630.14	627.36	630.58	0.003102	5.87	441.80	99.78	0.44

484+75 Plan: Proposed 2/6/2012

Legend	
WS 100 Year	—
Ground	—



HEC-RAS Plan: proposed River: RIVER-1 Reach: Reach-1 Profile: 100 Year

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach-1	2253	100 Year	2572.00	626.70	634.90		635.62	0.005581	7.29	438.82	199.87	0.58
Reach-1	2216.33*	100 Year	2572.00	626.52	634.69		635.42	0.005705	7.35	434.36	201.52	0.58
Reach-1	2179.66*	100 Year	2572.00	626.33	634.48		635.22	0.005799	7.38	431.64	203.81	0.58
Reach-1	2143.*	100 Year	2572.00	626.15	634.26		635.01	0.005917	7.41	429.36	207.83	0.59
Reach-1	2106.33*	100 Year	2572.00	625.97	634.05		634.80	0.005942	7.38	431.72	211.06	0.59
Reach-1	2069.66*	100 Year	2572.00	625.78	633.86		634.58	0.005848	7.28	439.38	215.11	0.58
Reach-1	2033	100 Year	2572.00	625.60	633.68		634.37	0.005845	7.11	453.07	220.86	0.56
Reach-1	1997.14*	100 Year	2572.00	625.47	633.21		634.13	0.007027	7.93	377.30	194.24	0.63
Reach-1	1961.28*	100 Year	2572.00	625.34	632.93	631.05	633.89	0.006830	7.98	353.47	167.48	0.63
Reach-1	1925.42*	100 Year	2572.00	625.21	632.73		633.64	0.006125	7.76	352.56	108.81	0.61
Reach-1	1889.57*	100 Year	2572.00	625.09	632.58		633.42	0.005359	7.45	364.99	108.76	0.57
Reach-1	1853.71*	100 Year	2572.00	624.96	632.46		633.22	0.004584	7.08	384.99	117.63	0.54
Reach-1	1817.85*	100 Year	2572.00	624.83	632.38		633.05	0.003757	6.65	414.70	126.64	0.49
Reach-1	1782	100 Year	2572.00	624.70	632.33	629.55	632.90	0.003013	6.19	456.30	141.94	0.45
Reach-1	1736	Bridge										
Reach-1	1690	100 Year	2572.00	624.40	632.11		632.49	0.001744	5.25	587.15	163.42	0.35
Reach-1	1654.33*	100 Year	2572.00	624.27	631.87		632.40	0.002609	6.00	497.27	177.92	0.42
Reach-1	1618.66*	100 Year	2572.00	624.13	631.72		632.30	0.003147	6.24	471.65	172.32	0.46
Reach-1	1583	100 Year	2572.00	624.00	631.65		632.18	0.002992	5.98	496.93	178.65	0.44
Reach-1	1542.14*	100 Year	2572.00	623.85	631.30		632.02	0.004360	6.80	390.48	112.59	0.53
Reach-1	1501.28*	100 Year	2572.00	623.69	631.00		631.82	0.005459	7.25	356.24	84.05	0.59
Reach-1	1460.42*	100 Year	2572.00	623.54	630.70		631.58	0.006299	7.52	342.01	75.91	0.62
Reach-1	1419.57*	100 Year	2572.00	623.38	630.46		631.33	0.006201	7.47	344.27	76.70	0.62
Reach-1	1378.71*	100 Year	2572.00	623.23	630.29		631.08	0.005390	7.13	360.95	78.57	0.58
Reach-1	1337.85*	100 Year	2572.00	623.07	630.19		630.86	0.004187	6.55	393.96	82.76	0.51
Reach-1	1297	100 Year	2572.00	622.92	630.14	627.36	630.68	0.003102	5.87	441.80	99.78	0.44