CITY OF GRAND PRAIRIE
FLOODPLAIN DEVELOPMENT APPLICATION – PART 2
(Unified Development Code – Article XV § 4)
Detailed Hydrologic and Hydraulic Information

To be completed by Applicant or Authorized Representative and submitted to the Floodplain Administrator.
Attach additional pages as necessary.

Property Address: _____

DATE: _____

EXISTING 100-YEAR FLOOD

Hydrologic and Hydraulic Impact		Pre-Project	Post-Project	Change
Discharge	Downstream Boundary of Project (DB)	cfs	cfs	cfs
	Upstream Boundary of Project (UB)	cfs	cfs	cfs
Channel Velocity	Downstream Boundary of Project	fps	fps	fps
	Upstream Boundary of Project	fps	fps	fps
Water Surface Elevation (NGVD)				
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	Downstream Boundary of Project	ft	ft	ft
	Mid-Project	ft	ft	ft
	Upstream Boundary of Project	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
Project Lands in Floodplain		ac	ac	ac
Valley Storage on Project Lands		ac-ft	ac-ft	ac-ft

ULTIMATE 100-YEAR FLOOD

Hydrologic and Hydraulic Impact		Pre-Project	Post-Project	Change
Discharge	Downstream Boundary of Project (DB)	cfs	cfs	cfs
	Upstream Boundary of Project (UB)	cfs	cfs	cfs
Channel Velocity	Downstream Boundary of Project	fps	fps	fps
	Upstream Boundary of Project	fps	fps	fps
Water Surface Elevation (NGVD)				
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	Downstream Boundary of Project	ft	ft	ft
	Mid-Project	ft	ft	ft
	Upstream Boundary of Project	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
Project Lands in Floodplain		ac	ac	ac
Valley Storage on Project Lands		ac-ft	ac-ft	ac-ft

VALLEY STORAGE MITIGATION:

Describe hydraulic mitigation used to compensate for project valley storage impacts (use separate attachment if necessary).

Application is hereby submitted for a City of Grand Prairie Floodplain Development Permit. I certify that I am knowledgeable of the information contained in this application, and that to the best of my knowledge and belief, this information is true, complete and accurate.

Applicant or Applicant's Representative

_____	_____	_____
(Type or Printed Name)	(Signature)	(Date)

_____
(Title)

_____
Professional Engineer/License Number/Seal or Stamp

cc: Contractor
Gabe Johnson, Floodplain Administrator
Brent O'Neal, Development Coordinator
Doug Bevins, Chief Inspector