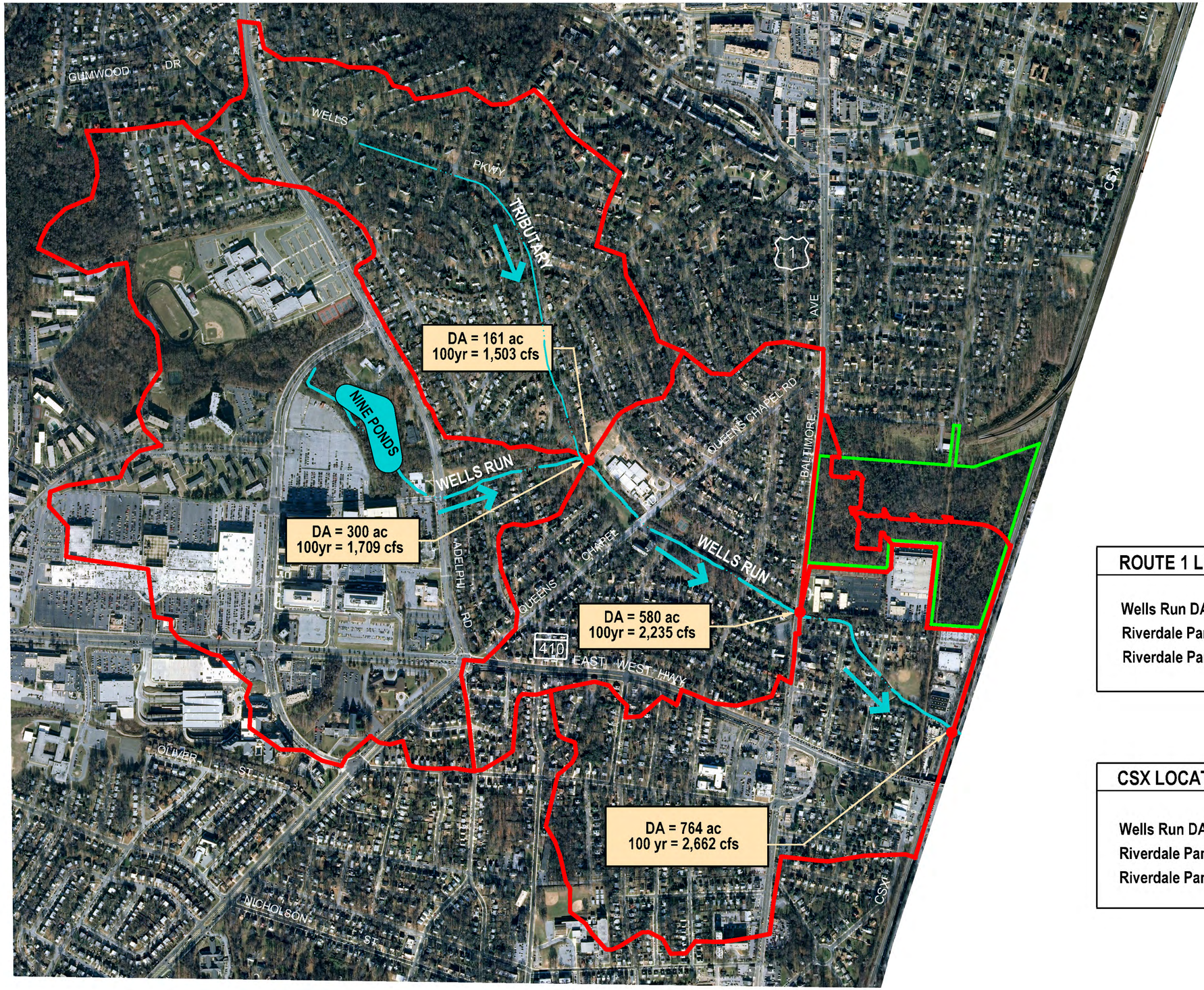


Legend

	Drainage Divide
	Property Boundary
	Stream Channel
	Subarea Location
	Direction of Flow
DA	Drainage Area
cfs	Cubic Feet per Second
ac	Acres

ROUTE 1 LOCATION

Wells Run DA at US Route 1 = 580 ac
Riverdale Park Station DA at SW SWM Location = 7.6 ac
Riverdale Park Station SW Corner Percent at Wells Run = 1.3 %

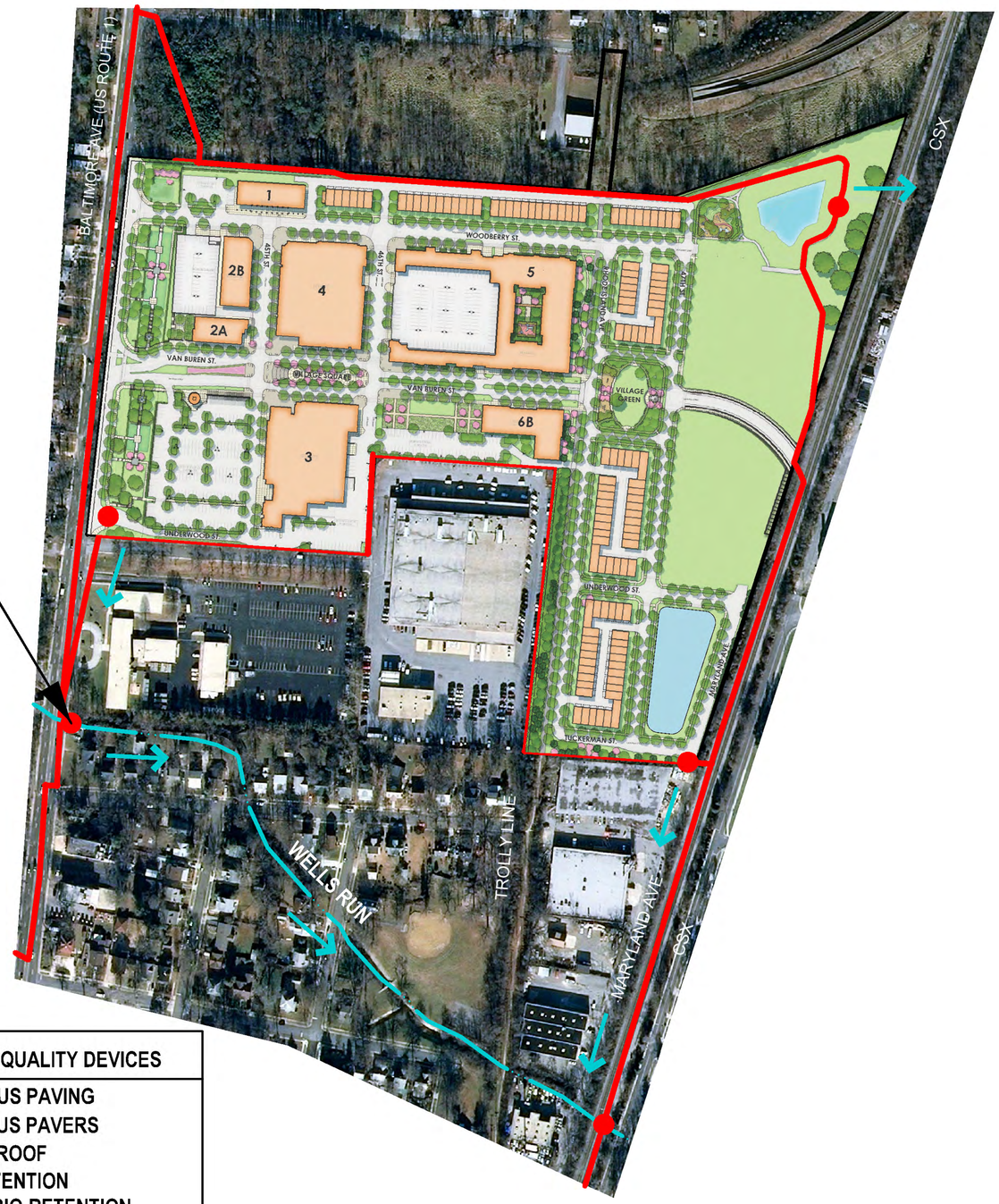
CSX LOCATION

Wells Run DA at CSX = 764 ac
Riverdale Park Station SE SWM DA = 12.6 ac
Riverdale Park Station Percent of DA at CSX = 2.6 %

Wells Run Drainage Area

Legend

	Drainage Divide
	Property Boundary
	Stream Channel
	Subarea location
	Direction of Flow
DA	Drainage Area
cfs	Cubic Feet per Second
ac	Acres
ESDv	Environmental Site Design Volume
CPv	Channel Protection Volume
WQv	Water Quality Volume



UPSTREAM OF ROUTE 1

DA	= 580 ac
100-Year Exisiting	= 2,335 cfs
100-Year with Underground Storage	= 2,335 cfs
100-Year without Underground Storage	= 2,335 cfs

SITE ESDv WHICH INCLUDES WQv AND CPv	
ESDv REQUIRED PER MDE	154,000 CF
ESDv PROVIDED	192,000 CF

WATER QUALITY DEVICES
PERVIOUS PAVING
PERVIOUS PAVERS
GREEN ROOF
BIO-RETENTION
MICRO BIO-RETENTION

Wells Run SW Runoff Upstream of Route 1

DISCHARGE POINT # 3

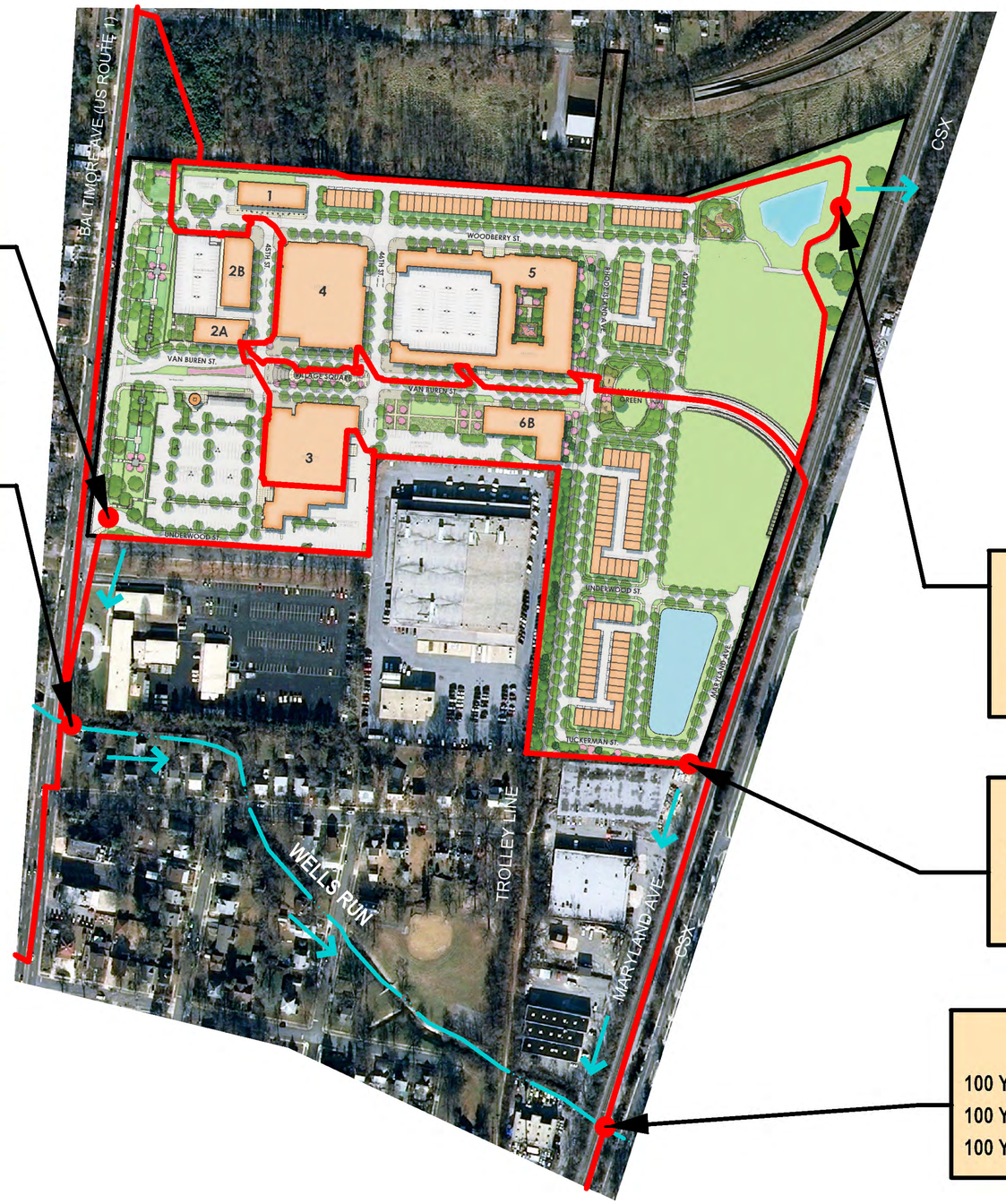
DA	= 7.6 ac.
100 YEAR EXISTING	= 32 cfs
100 YEAR WITH UNDERGROUND STORAGE	= 32 cfs
100 YEAR WITHOUT UNDERGROUND STORAGE	= 64 cfs

DOWNSTREAM OF ROUTE 1

100 YEAR EXISTING	= 2,374 cfs
100 YEAR WITH UNDERGROUND STORAGE	= 2,374 cfs
100 YEAR WITHOUT UNDERGROUND STORAGE	= 2,369 cfs

ADDITIONAL 100 YR CONTROL REQUIRED BY PRINCE GEORGE'S COUNTY DISCHARGE SUMMARIES

DISCHARGE POINT	EXISTING	POST
# 2	43 cfs	24 cfs W/ SWM STORAGE
# 3	32 cfs	64 cfs W/O UG STORAGE
TOTAL INTO WELLS RUN	75 cfs	88 cfs
# 1	75 cfs	67 cfs W/ SWM STORAGE
TOTAL ENTIRE PROJECT	150 cfs	155 cfs



Legend

	Drainage Divide
	Property Boundary
	Stream Channel
	Subarea location
	Direction of Flow
DA	Drainage Area
cfs	Cubic Feet per Second
ac	Acres
ESDv	Environmental Site Design Volume
CPv	Channel Protection Volume
WQv	Water Quality Volume

DISCHARGE POINT # 1

DA	= 15.7 ac.
100 YEAR EXISTING	= 75 cfs
100 YEAR WITH SWM STORAGE	= 67 cfs

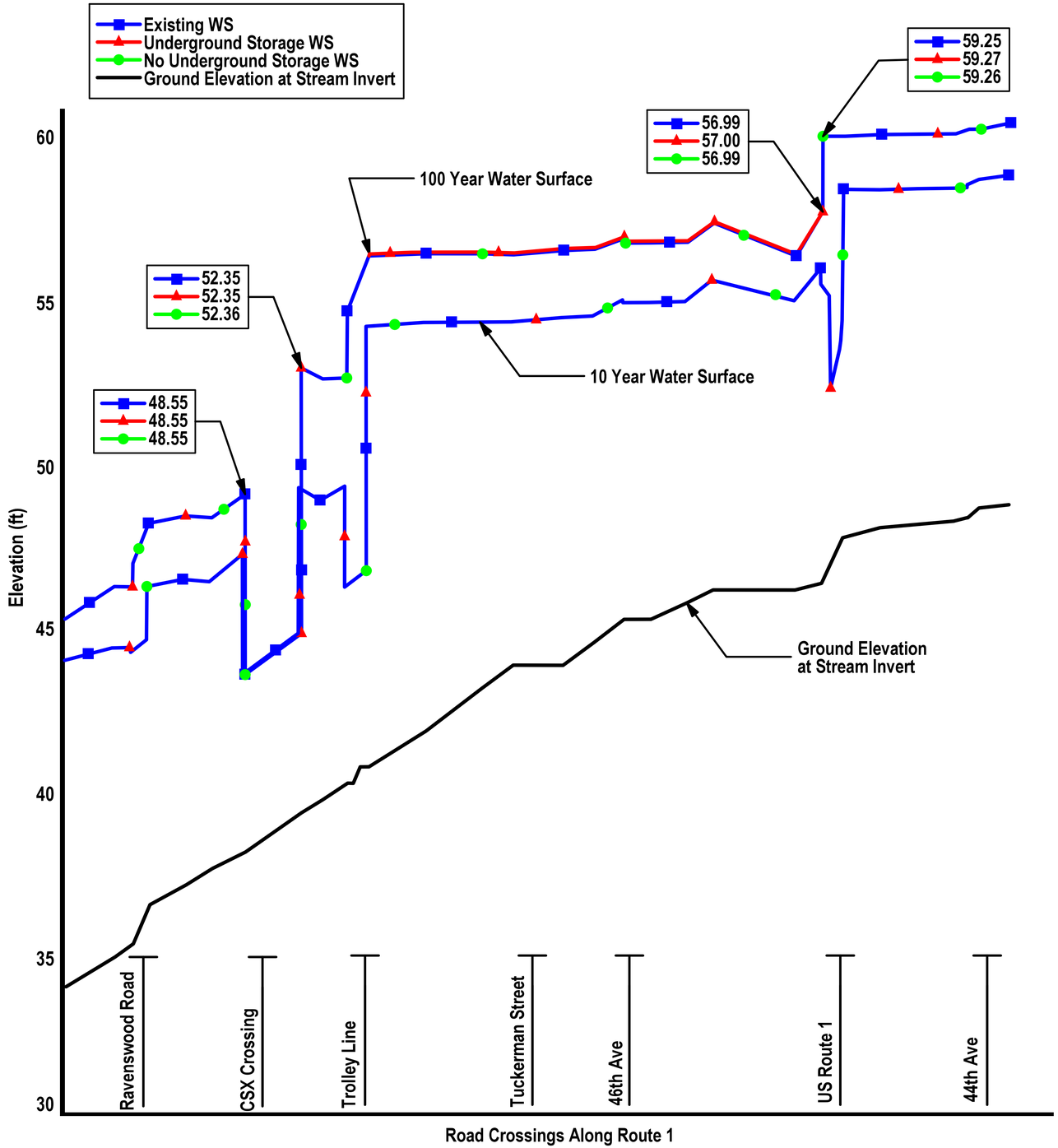
DISCHARGE POINT # 2

DA	= 12.6 ac.
100 YEAR EXISTING	= 43 cfs
100 YEAR WITH SWM STORAGE	= 24 cfs

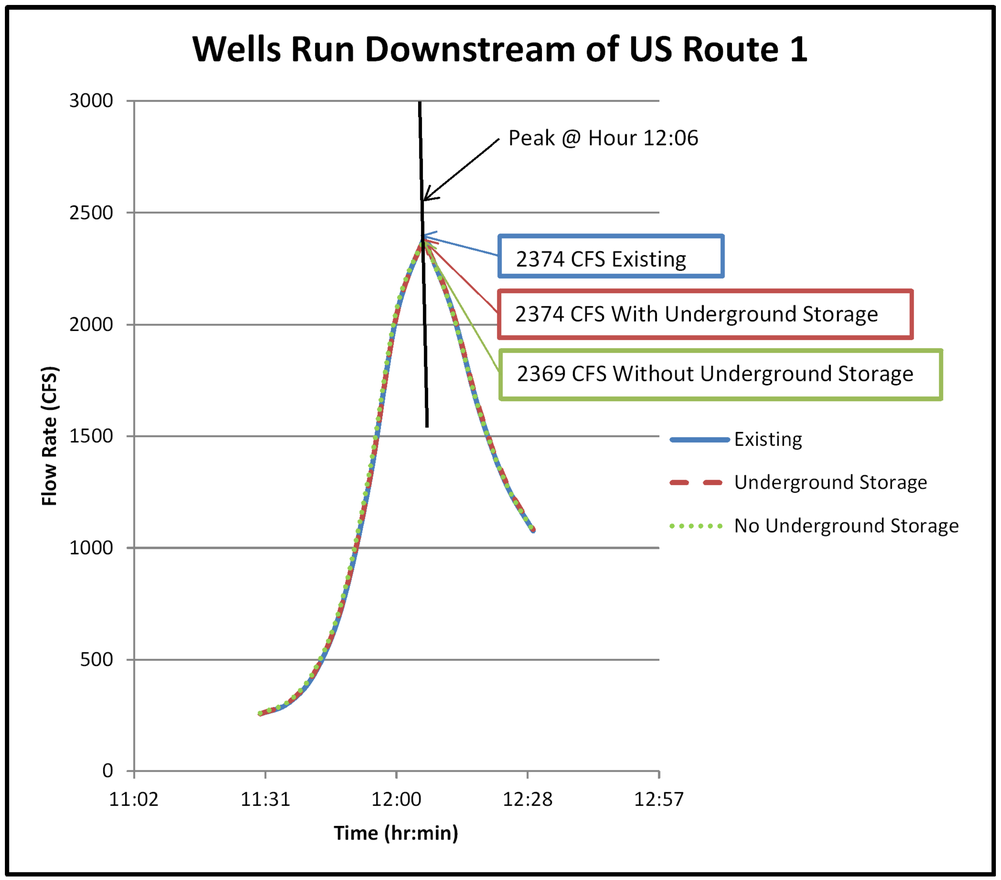
CSX CULVERT

100 YEAR EXISTING	= 2,662 cfs
100 YEAR WITH UNDERGROUND STORAGE	= 2,631 cfs
100 YEAR WITHOUT UNDERGROUND STORAGE	= 2,630 cfs

Wells Run SW Runoff Downstream of Route 1



Development Site Southwest Corner Discharge Point	
100 year Flow Quantity at hour 12:06 that Wells Run Peak is Occuring from Riverdale Park Station Southwest Discharge Point	
Existing	28 cfs
Proposed development with Underground Storage	28 cfs
Proposed development without Underground Storage	22 cfs



Wells Run Water Surface Elevations