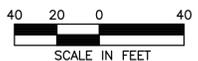


SEAL

KEY PLAN

SCALE



No. DATE BY Description

REVISIONS

DRAWN BY PSO

APPROVED BY KVL

CHECKED BY APRIL 2014

DATE

TITLE

**WATERS OF THE US  
 IMPACT LOCATION MAP**

PROJECT NO.

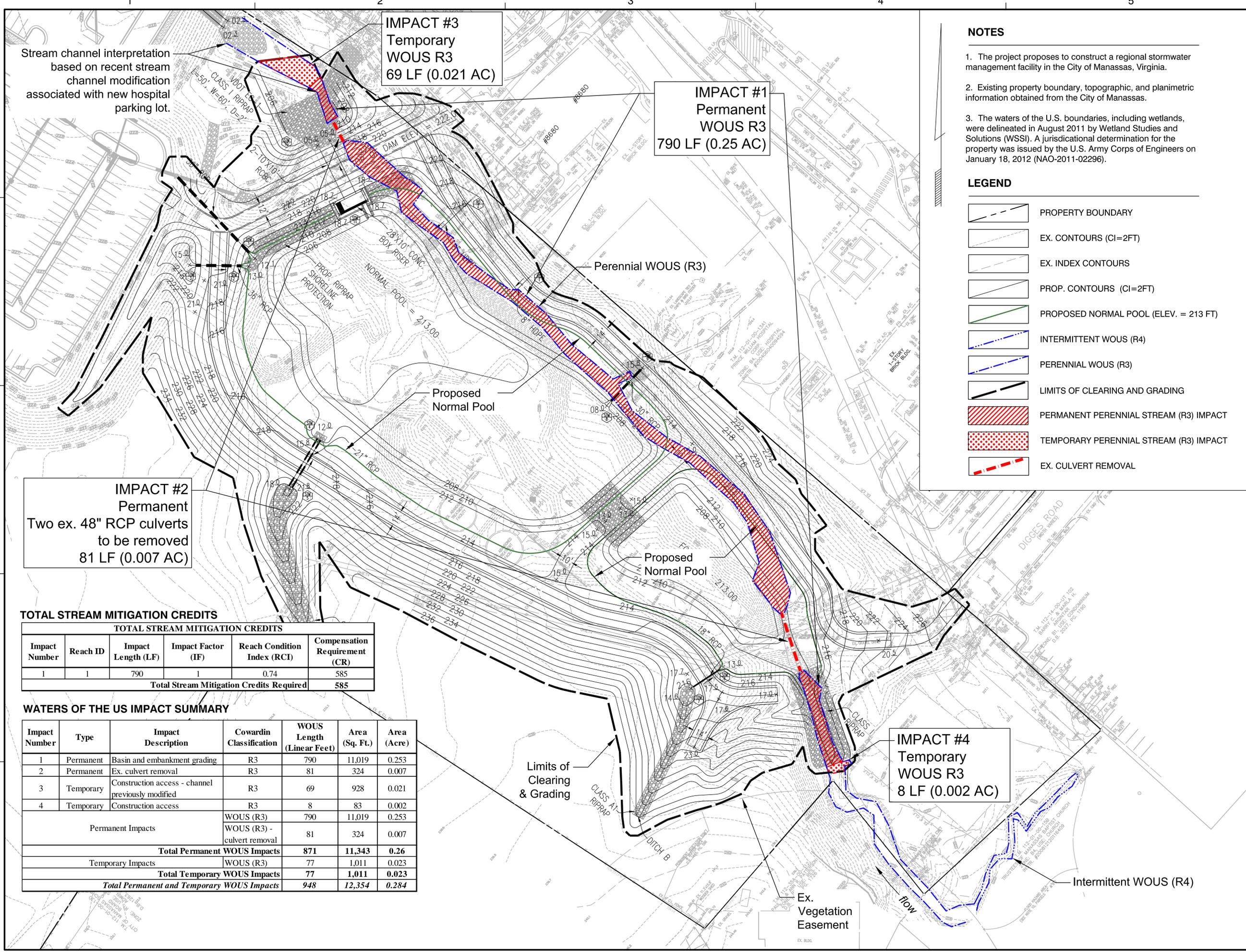
SHEET NO. 1 OF 1

**NOTES**

- The project proposes to construct a regional stormwater management facility in the City of Manassas, Virginia.
- Existing property boundary, topographic, and planimetric information obtained from the City of Manassas.
- The waters of the U.S. boundaries, including wetlands, were delineated in August 2011 by Wetland Studies and Solutions (WSSI). A jurisdictional determination for the property was issued by the U.S. Army Corps of Engineers on January 18, 2012 (NAO-2011-02296).

**LEGEND**

- PROPERTY BOUNDARY
- EX. CONTOURS (CI=2FT)
- EX. INDEX CONTOURS
- PROP. CONTOURS (CI=2FT)
- PROPOSED NORMAL POOL (ELEV. = 213 FT)
- INTERMITTENT WOUS (R4)
- PERENNIAL WOUS (R3)
- LIMITS OF CLEARING AND GRADING
- PERMANENT PERENNIAL STREAM (R3) IMPACT
- TEMPORARY PERENNIAL STREAM (R3) IMPACT
- EX. CULVERT REMOVAL



Stream channel interpretation based on recent stream channel modification associated with new hospital parking lot.

**IMPACT #3  
 Temporary  
 WOUS R3  
 69 LF (0.021 AC)**

**IMPACT #1  
 Permanent  
 WOUS R3  
 790 LF (0.25 AC)**

**IMPACT #2  
 Permanent  
 Two ex. 48" RCP culverts  
 to be removed  
 81 LF (0.007 AC)**

**IMPACT #4  
 Temporary  
 WOUS R3  
 8 LF (0.002 AC)**

**TOTAL STREAM MITIGATION CREDITS**

Impact Number	Reach ID	Impact Length (LF)	Impact Factor (IF)	Reach Condition Index (RCI)	Compensation Requirement (CR)
1	1	790	1	0.74	585
<b>Total Stream Mitigation Credits Required</b>					<b>585</b>

**WATERS OF THE US IMPACT SUMMARY**

Impact Number	Type	Impact Description	Cowardin Classification	WOUS Length (Linear Feet)	Area (Sq. Ft.)	Area (Acre)
1	Permanent	Basin and embankment grading	R3	790	11,019	0.253
2	Permanent	Ex. culvert removal	R3	81	324	0.007
3	Temporary	Construction access - channel previously modified	R3	69	928	0.021
4	Temporary	Construction access	R3	8	83	0.002
Permanent Impacts				WOUS (R3)	790	11,019
				WOUS (R3) - culvert removal	81	324
<b>Total Permanent WOUS Impacts</b>				<b>871</b>	<b>11,343</b>	<b>0.26</b>
Temporary Impacts				WOUS (R3)	77	1,011
<b>Total Temporary WOUS Impacts</b>				<b>77</b>	<b>1,011</b>	<b>0.023</b>
<b>Total Permanent and Temporary WOUS Impacts</b>				<b>948</b>	<b>12,354</b>	<b>0.284</b>

Limits of Clearing & Grading

Ex. Vegetation Easement

Intermittent WOUS (R4)

flow