

**POLICE STATION TECHNICAL SUPPORT BUILDING  
EXPANSION AND RENOVATION  
IFB No. 11308-FY12-01  
Addendum #9  
June 13, 2012**

Question 1. Do you have the drawing numbered C-14 that is referenced in the bid for as Add Alternate 1?

**Answer 1. Revised Sheets C-1 and C-9 and new sheet C-14 are attached for your use.**

**END OF ADDENDUM #9**

# TOWN of LEESBURG, VA



## CAPITAL IMPROVEMENT PROGRAM

### A. UTILITIES

1. THE DEVELOPER SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.

PRIOR TO DIGGING NOTIFY THE FOLLOWING:

- A. MISS UTILITY - 1-800-552-7001
- B. WATER AND SEWER - DEPARTMENT OF UTILITIES, THE TOWN OF LEESBURG - (703) 771-2750
- C. STORM DRAIN AND TRAFFIC SIGNALS - DEPARTMENT OF PUBLIC WORKS, THE TOWN OF LEESBURG - (703) 771-2790

2. TEST PITS SHALL BE SHOWN AT ALL UTILITY CROSSINGS AND AT THE POINT OF CONNECTION TO EXISTING WATER MAINS. AT LEAST 10 DAYS PRIOR TO CONSTRUCTION ACTIVITY THE CONTRACTOR MUST OBTAIN ITS TEST PIT DATA AND COORDINATE WITH THE INSPECTOR. IF THE TEST RESULTS SHOW A POTENTIAL CONFLICT OR NONCOMPLIANCE WITH THE APPROVED PLAN, REVISIONS TO THE PLANS MUST BE SUBMITTED FOR APPROVAL. IN SUCH INSTANCES, NO WORK SHALL COMMENCE UNTIL CONFLICTS ARE RESOLVED AND REVISIONS APPROVED.

3. ALL UNDERGROUND UTILITY CONNECTIONS ARE TO BE PLACED FROM THE UTILITY MAIN TO THE RIGHT-OF-WAY FOR EACH LOT AND ALL UNDERGROUND UTILITY MAINS AND CONNECTIONS MUST BE INSTALLED PRIOR TO THE APPLICATION OF ANY STREET SURFACE.

4. THE DEVELOPER SHALL BE RESPONSIBLE FOR RETURNING ALL EXISTING FACILITIES AND/OR UTILITIES TO THEIR ORIGINAL CONDITION.

### B. GENERAL

1. A GRADING PERMIT IS TO BE OBTAINED FROM LOUDOUN COUNTY OFFICE OF TECHNICAL SERVICES BEFORE ANY CONSTRUCTION IS STARTED.

2. THE DESIGN METHODS OF CONSTRUCTION AND FIELD PRACTICES SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE TOWN OF LEESBURG DESIGN AND CONSTRUCTION STANDARDS MANUAL AND THE DOCUMENTS REFERENCED THEREIN. ANY DEVELOPER, CONTRACTOR ENGINEER, OR OWNER INVOLVED IN THE DESIGN AND/OR CONSTRUCTION OF PUBLIC FACILITIES WITHIN LEESBURG'S JURISDICTION IS EXPECTED TO BE FAMILIAR WITH THE INFORMATION IN THE DESIGN AND CONSTRUCTION STANDARDS MANUAL.

3. ALL ELEVATIONS MUST BE BASED ON USGS SURVEY DATUM AND THE SOURCE INDICATED ON THE PLANS.

4. HORIZONTAL AND VERTICAL CONTROL SURVEYS WERE RUN ON THE GROUND BY THE FOLLOWING FIRM:

PACIULLI, SIMMONS & ASSOCIATES  
DATE: 09/2008 METHOD: CONVENTIONAL GROUND SURVEY

5. TOPOGRAPHIC MAPPING SHOWN HEREON WAS PERFORMED BY THE FOLLOWING FIRM:

PACIULLI, SIMMONS & ASSOCIATES  
DATE: 09/2008 & 11/2011 METHOD: CONVENTIONAL GROUND SURVEY

6. THE MERIDIAN FOR SURVEY BEARINGS SHOWN HEREON IS (TRUE)(MAGNETIC)(VA. STATE GRID NORTH)(OTHER NAD 27), AND WAS ESTABLISHED AS FOLLOWS: CONVENTIONAL FIELD SURVEY

7. COORDINATES OF POINTS OR MONUMENTS, IF SHOWN HEREON, ARE COORDINATES OF THE N.A.D. 1927 ESTABLISHED AS FOLLOWS: CONVENTIONAL FIELD SURVEY

8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS: FEDERAL, STATE, COUNTY AND LOCAL RELATING TO THE PERFORMANCE OF HIS WORK.

### C. SOLID WASTE

1. METHOD OF COLLECTION: N/A

2. IF OTHER THAN CURB-SIDE PICKUP, CONTINUE:

3. NUMBER AND SIZE OF CONTAINERS: N/A

4. TYPE OF CONTAINER: N/A

5. METHODOLOGY USED TO COMPUTE SIZE: N/A

6. FREQUENCY OF COLLECTION: N/A TIMES/WEEK (MINIMUM OF 2 TIMES/WEEK)

### D. SANITARY SEWERS

1. SEWER SHED: N/A

2. GRAVITY SYSTEM: N/A PUMPED: N/A

3. PUMP STATION PROPOSED: N/A

4. OFF-SITE SEWER EXTENSION REQUIRED: N/A

5. REQUIRED LENGTH OF OFF-SITE SEWER: N/A

6. ALL SANITARY SEWER AND APPURTENANCE INSTALLATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN'S DESIGN AND CONSTRUCTION STANDARDS MANUAL AND THE DOCUMENTS REFERENCED THEREIN.

### E. WATER SYSTEM

1. DOMESTIC WORKING PRESSURE AT HIGHEST FIXTURE = N/A PSI

2. ALL WATER MAIN AND APPURTENANCE INSTALLATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN'S DESIGN AND CONSTRUCTION STANDARDS MANUAL AND THE DOCUMENTS REFERENCED THEREIN.

3. WATER MAINS SHALL BE DESIGNED IN CONFORMANCE WITH THE CURRENT EDITION OF THE WATER WORKS REGULATIONS OF THE VIRGINIA STATE BOARD OF HEALTH.

4. NO WATER MAIN VALVES ARE TO BE OPENED OR CLOSED PRIOR TO NOTIFICATION OF THE TOWN OF LEESBURG UTILITY DEPARTMENT, (703)771-2750.

### F. FIRE FLOW

1. REQUIRED FIRE FLOW = 1350 gpm

2. AVAILABLE FIRE FLOW = >1350 gpm

3. FULL SPRINKLER SYSTEM: YES

4. PARTIAL SPRINKLER SYSTEM: N/A

5. BOCA BUILDING CLASS UTILIZED: 2C - NON COMBUSTIBLE UNPROTECTED

### G. CURRENT SITE INFORMATION

1. TAX MAP NUMBER: 48

2. LOT AND/OR PARCEL NUMBER: 126 B

3. ZONING: B-2

4. DATE OF CURRENT ZONING: N/A

5. RESOLUTION NUMBER: N/A

6. REZONING NUMBER: N/A

7. TOTAL AREA: 6.32 AC

8. OPEN SPACE AREA: N/A

9. STREET AREA: N/A

10. NUMBER OF LOTS CREATED BY SUBDIVISION: N/A

### H. PARKING TABULATION

1. SPACES REQUIRED: N/A

2. SPACES PROVIDED: N/A

NO.	TYPE
	REGULAR
	PARALLEL
	HANDICAPPED
	PARALLEL HC

4. HISTORIC DISTRICT PARKING FEE AT \$ N/A PER SPACE

5. N/A SPACES REQUIRED = \$ N/A TOTAL

### I. STORM SEWER AND CULVERTS

1. ALL STORM SEWER AND CULVERT INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE TOWN'S DESIGN AND CONSTRUCTION STANDARDS MANUAL AND THE DOCUMENTS REFERENCED THEREIN.

### J. STORMWATER MANAGEMENT

1. WATERSHED: LOWER TUSCARORA CREEK

2. DETENTION PROVIDED FOR:  
2 - YEAR  
10 - YEAR   
OTHER \_\_\_\_\_ STORM EVENT

3. ADEQUATE CHANNEL:  
2 - YEAR  
10 - YEAR  
25 - YEAR  
OTHER \_\_\_\_\_ STORM EVENT

### K. BMP REQUIRED

YES  
NO

### CONTACTS

TOWN OF LEESBURG

### UTILITY CONTACTS

GAS	ELECTRIC	TELEPHONE	CABLE	OTHER
COLUMBIA GAS TRANSMISSION CORP. (703) 759-2115	DOMINION VIRGINIA POWER (703) 547-1291	AT&T (703) 430-5310	ADELPHIA (703) 478-1825	
WASHINGTON GAS (703) 750-9500	NOVEC (703) 777-2041	VERIZON (703) 437-8800		
CNG TRANSMISSION CORP. (412) 527-1531	AT&T (703) 430-5310	ONFIBER COMMUNICATIONS (202) 289-8220		



VICINITY MAP  
SCALE: 1" = 50'

### Sheet List Table

Sheet Number	Sheet Title
C-1	Cover Sheet
C-2	Standard Legens
C-3	Typical Sections & Details
C-4	Demolition Plan
C-5	Grading Plan
C-6	Storm Profiles
C-7	Storm Drainage Divides Map
C-8	Storm Drainage Computations
C-9	100 Year Overland Relief
C-10	Erosion & Sediment Control Phase 1 & 2
C-11	Erosion & Sediment Control, Narrative, Notes & Details
C-12	Water Computations & Details
C-13	Geotechnical Requirements
C-14	BMP Add Alternate

### REVISIONS PRIOR TO APPROVAL

DATE	DESCRIPTION
12/7/11	First Submission
2/17/12	Addressed Comments
3/23/12	Addressed Utilities and Hughes' Comments
3/30/12	Addressed CPM Comments

### STUDIES, REFERRALS, AND APPROVALS REQUIRED PRIOR TO PLAN APPROVAL

AGENCY INFORMATION	REQ.	REVIEW INITIATED		APPROVAL	COMMENTS
		BY	DATE		
1. VA. MARINE RESOURCE COMMISSION					
A. CORPS OF ENGINEERS					
B. DEPT. OF ENVIRONMENTAL QUALITY					
2. FEMA					
3. FAA					
4. VDOT					
5. VA. DEPT. OF HEALTH - WATER					
6. VA. DEQ - SEWER					
7. LOUDOUN COUNTY					
A. HEALTH DEPARTMENT					
B. FIRE MARSHALL					
C. TECHNICAL SERVICES					
D. BUILDING PERMITS					
8. FLOOD PLAIN STUDY					
9. TRAFFIC STUDY					
10. SOILS REPORT					
11. ON SITE EASEMENTS					
12. OFF SITE EASEMENTS					
A. LEGAL REVIEW <input type="checkbox"/> or <input type="checkbox"/>					
B. TECHNICAL REVIEW					
C. RECORDED					
13. LETTERS OF PERMISSION					
14. BOARD OF ARCH. REVIEW					

### VARIATION OF SUBDIVISION AND LAND DEVELOPMENT ORDINANCE BY THE PLANNING COMMISSION

ID. NO.	CITATION	PLAN SHEET	LOCATION	DATE APPROVED
▽				
▽				
▽				

### MODIFICATION OR INTERPRETATION OF DCSSM BY THE DIRECTOR OF ENGINEERING

ID. NO.	CITATION	PLAN SHEET	LOCATION	DATE APPROVED
▽	5-210.5.A	C-9	NW CORNER OF THE BUILDING EXPANSION	
▽	5-252.12	C-8 & C-9	OUTFALL DITCH	
▽				
▽				

### TOWN OF LEESBURG APPROVALS

PLANNING	LAND DEVELOPMENT OFFICIAL	
ZONING	ZONING ADMINISTRATOR	DATE
COMMISSION PERMIT	CHAIRMAN	DATE
UTILITIES	DIRECTOR	DATE
CAPITAL PROJECTS MANAGEMENT	DIRECTOR	DATE
ENGINEERING	DIRECTOR	DATE
-----		DATE

### CAPITAL IMPROVEMENT PROGRAM

PROJECT NAME: POLICE STATION TECHNICAL SUPPORT BUILDING EXPANSION - MINOR SITE PLAN

ADDRESS: \_\_\_\_\_

OWNER: TOWN OF LEESBURG 25 West Market Street, Leesburg, VA, 20176 (703) 777-2420

DEVELOPER: SAME AS ABOVE

ENGINEER: PACIULLI, SIMMONS & ASSOCIATES, LTD. 50 Catocotin Circle NE, Suite 200 Leesburg, VA 20176 (703) 777-2755

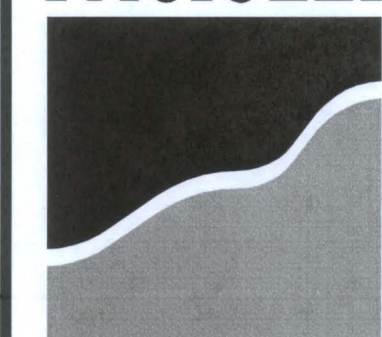
REVISIONS TO APPROVED CONSTRUCTION DRAWINGS							
NO.	DATE	SHEETS REVISED	COMMENTS	NO.	DATE	SHEETS REVISED	COMMENTS



PROFESSIONAL SEAL & SIGNATURE

\*Standard guard and hand rails shall be installed at hazardous locations as designated during final field inspection by the Town of Leesburg.\*

PACIULLI



SIMMONS & ASSOCIATES  
Established 1744

50 Catocotin Circle, NE  
Suite 200  
Leesburg, VA 20176  
PH 703.777.2755  
FX 703.777.8751  
EM loudoun@psaltd.com

Engineers  
Planners  
Surveyors  
Landscape Architects  
Wetland Specialists  
Environmental Scientists

Engineer:

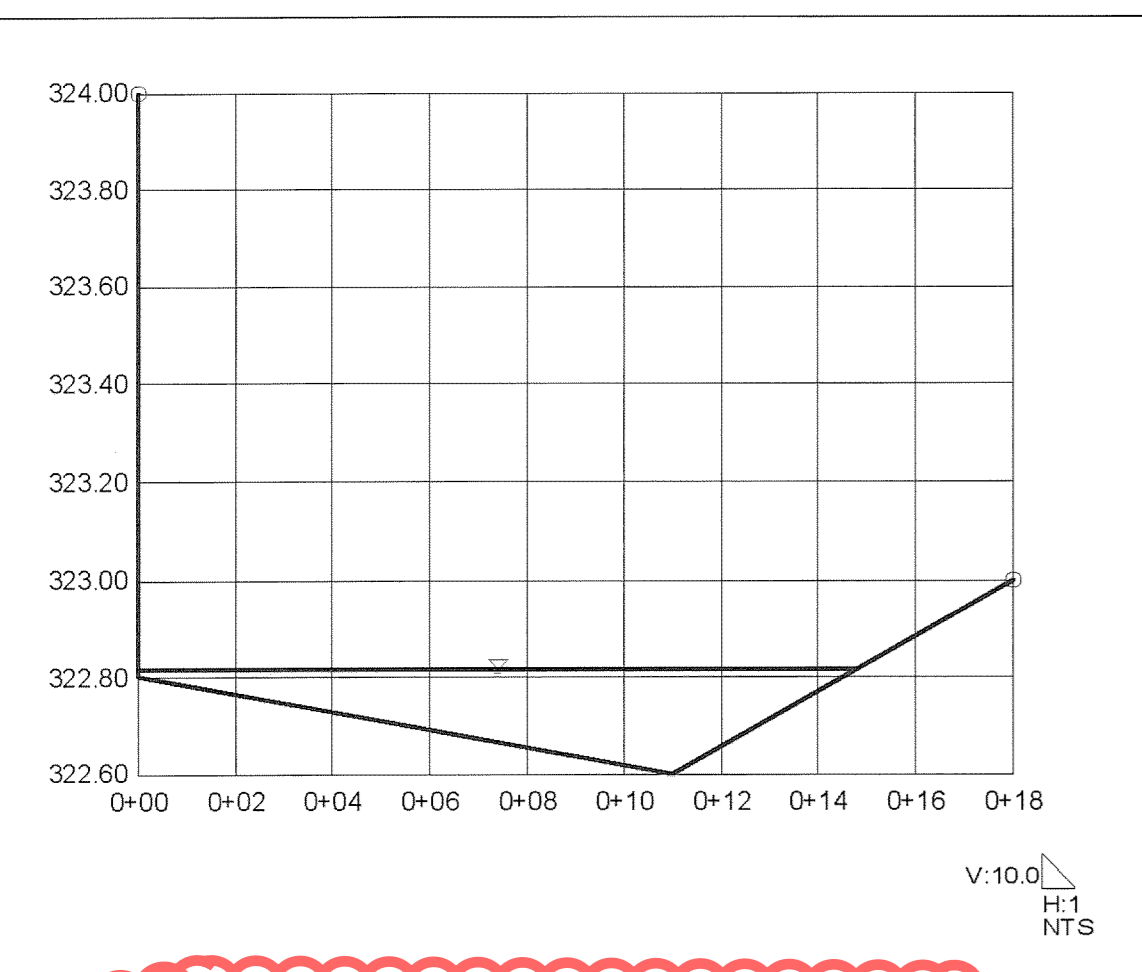
Project Manager:

PROJECT NAME: POLICE STATION TECHNICAL SUPPORT BUILDING EXPANSION  
 TOWN OF LEESBURG LOUDOUN COUNTY, VIRGINIA  
 SUBMISSION DATE: 12-07-2011

ASSOCIATED PLAN: LEESBURG PUBLIC SAFETY CENTER 1996  
 FOR BIDDING PURPOSES ONLY  
 TOWN NUMBER: TICI-2011-0012  
 SHEET C-1 of 14  
 FILE NO: 188.100

**X-3**  
Cross Section for Irregular Channel

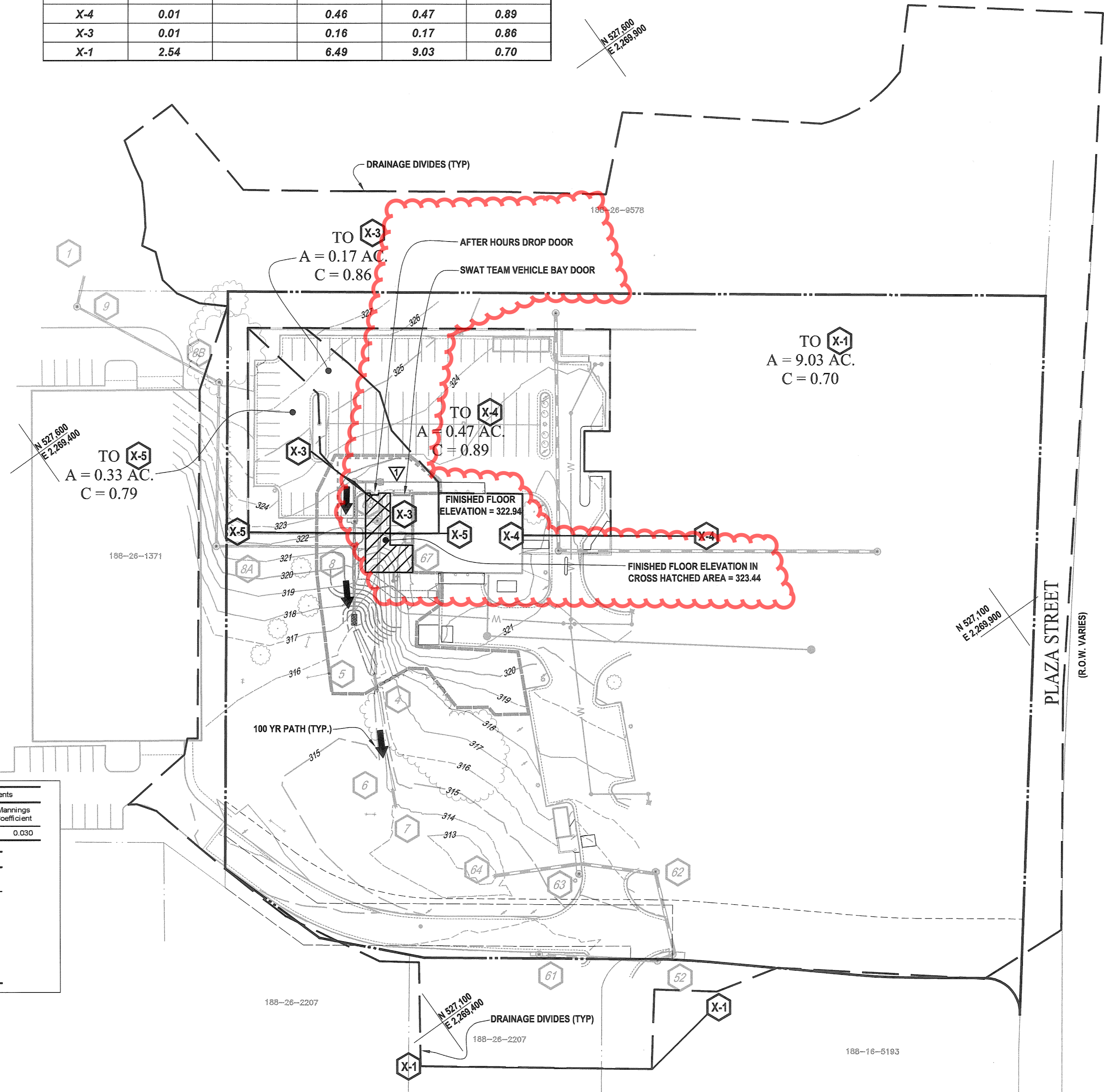
Discharge	HW Elev.	Velocity
1.80 cfs	322.82 ft	N/A



FINISHED FLOOR ELEVATION AT AFTER HOURS DROP DOOR = 323.44  
100 YR WATER SURFACE ELEVATION = 322.82  
FREE BOARD = 0.62'

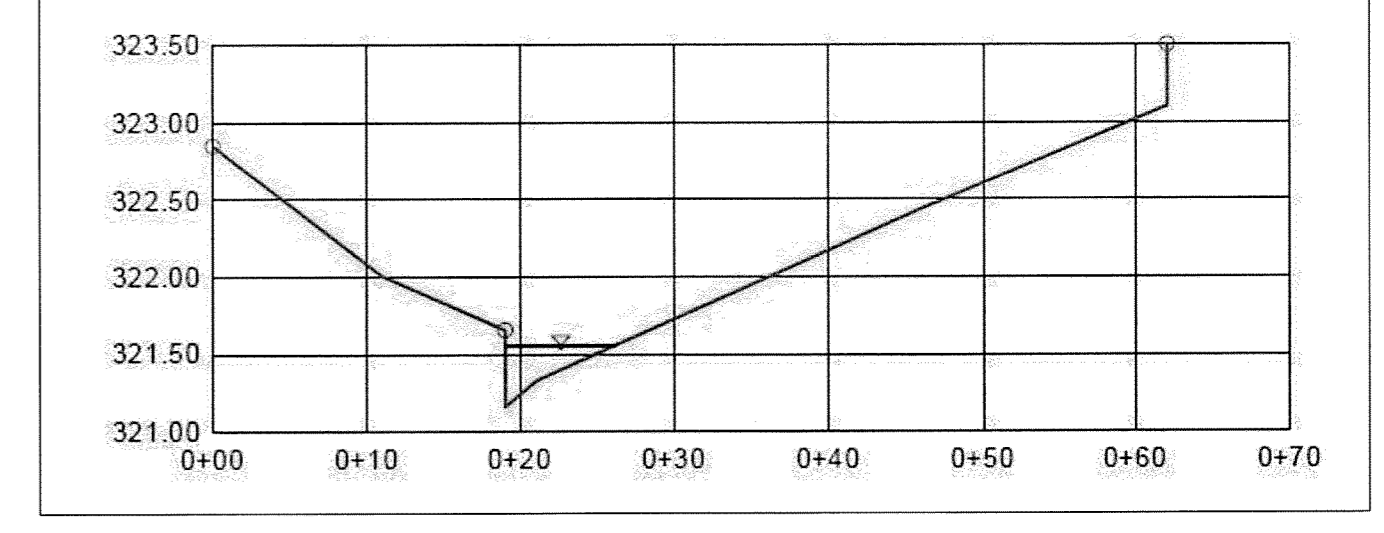
FINISHED FLOOR ELEVATION AT SWAT TEAM VEHICLE BAY DOOR = 322.94  
100 YR WATER SURFACE ELEVATION = 322.82  
FREE BOARD = 0.12'

X-SECTION	WEIGHTED AREAS (AC)			TOTAL AREA (AC)	WEIGHTED "C" VALUE
	C=0.20	C=0.80	C=0.90		
	LAWNS	COMMERCIAL	ROAD/ROOF		
X-5	0.05		0.28	0.33	0.79
X-4	0.01		0.46	0.47	0.89
X-3	0.01		0.16	0.17	0.86
X-1	2.54		6.49	9.03	0.70



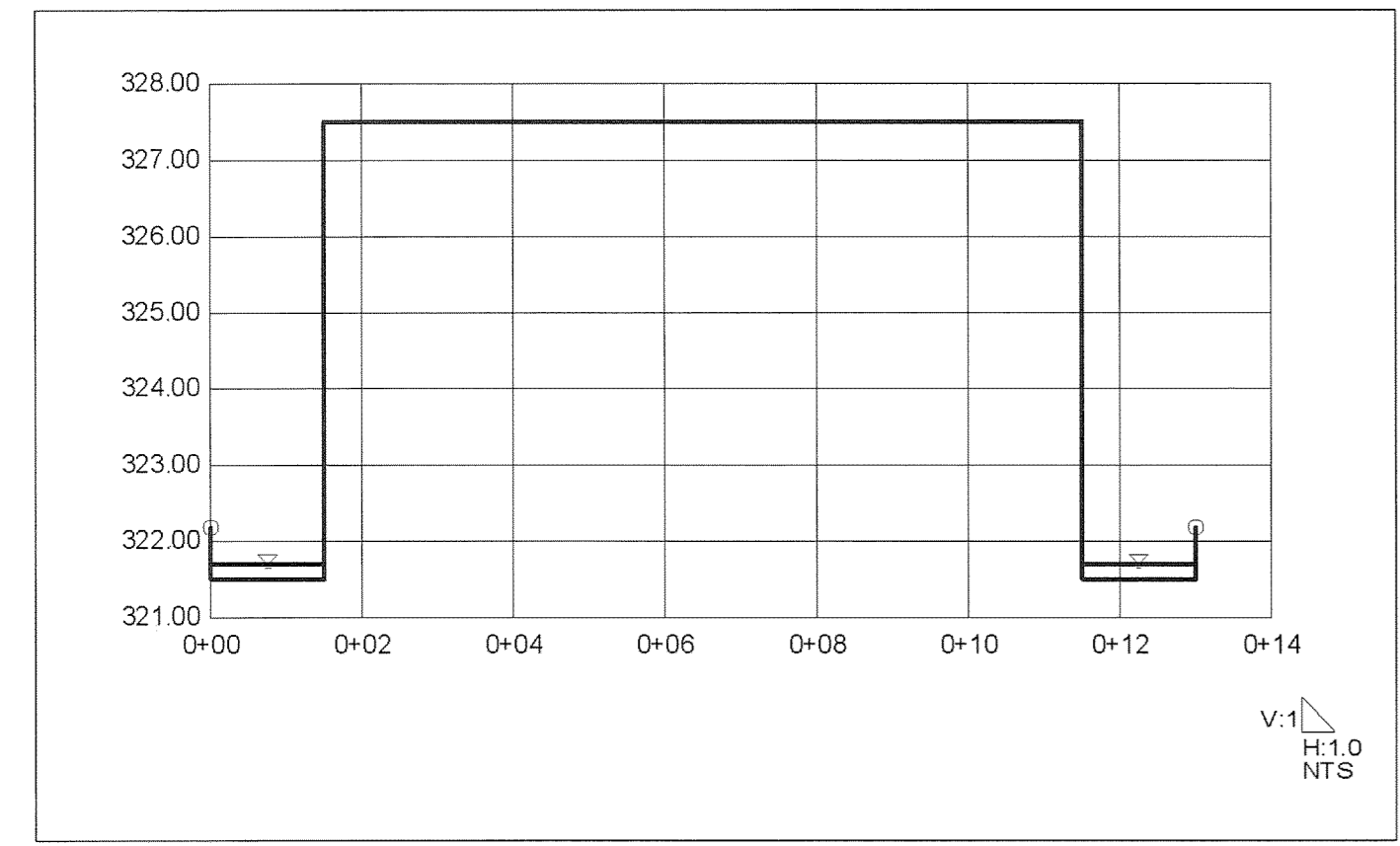
**X-4**  
Worksheet for Irregular Channel

Project Description		Results		Roughness Segments	
Worksheet	Cross Section: Irregular Chan	Mannings Coefficient	0.013	Start Station	End Station
Flow Element	Irregular Chan	Water Surface Elev.	321.50 ft	0+00	0+19
Method	Manning's For	Elevation Range	1.16 to 323.50	0+19	0+82
Solve For	Channel Depth	Flow Area	1.2 ft <sup>2</sup>	0+82	0.013
Input Data		Wetted Perimeter	7.57 ft	Natural Channel Points	
Channel Slo	0.00000 ft/ft	Top Width	7.16 ft	Station (ft)	Elevation (ft)
Discharge	4.12 cfs	Actual Depth	0.40 ft	0+00	322.85
Options		Critical Elevation	321.61 ft	0+11	322.00
Current Roughness Meth	ved Lotter's Meth	Critical Slope	0.004559 ft/ft	0+19	321.66
Open Channel Weighting	ved Lotter's Meth	Velocity	3.38 ft/s	0+19	321.16
Closed Channel Weighting	Horton's Meth	Velocity Head	0.18 ft	0+21	321.33
		Specific Energy	321.74 ft	0+48	322.44
		Froude Number	1.45	0+82	323.10
		Flow Type	Supercritical	0+82	323.50



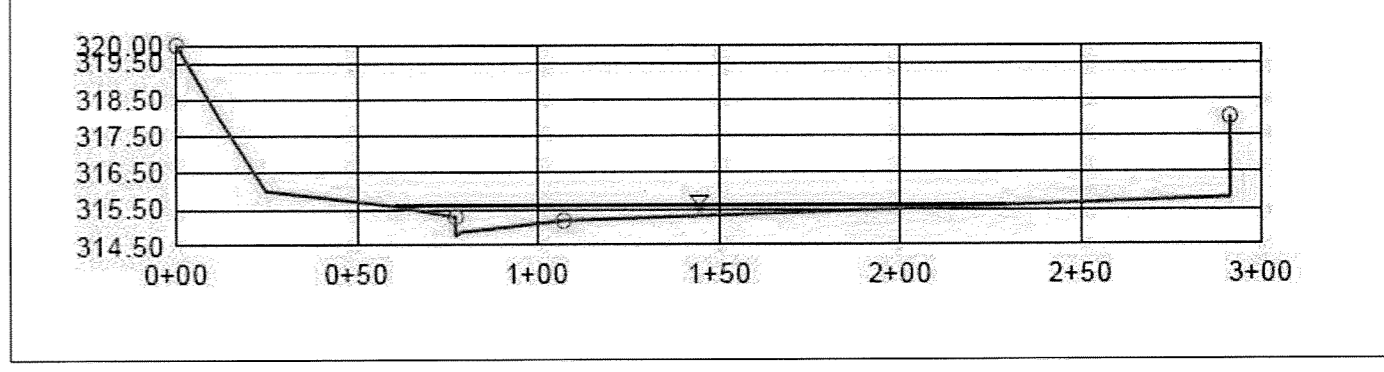
**Cross Section X-5**  
Cross Section for Irregular Channel

Project Description		Results		Roughness Segments	
Worksheet	Cross Section: Irregular Chan	Mannings Coefficient	0.030	Start Station	End Station
Flow Element	Irregular Chan	Water Surface Elev.	321.70 ft	0+00	0+13
Method	Manning's For	Elevation Range	1.50 to 327.50	0+00	0.030
Solve For	Channel Depth	Flow Area	0.6 ft <sup>2</sup>	Natural Channel Points	
Input Data		Wetted Perimeter	3.81 ft	Station (ft)	Elevation (ft)
Channel Slo	0.030000 ft/ft	Top Width	3.00 ft	0+00	322.17
Discharge	2.81 cfs	Actual Depth	0.20 ft	0+00	321.50
Options		Critical Elevation	321.80 ft	0+02	321.50
Current Roughness Meth	ved Lotter's Method	Critical Slope	0.030679 ft/ft	0+02	327.50
Open Channel Weighting	ved Lotter's Method	Velocity	4.61 ft/s	0+12	327.50
Closed Channel Weighting	Horton's Method	Velocity Head	0.33 ft	0+12	321.50
		Specific Energy	322.03 ft	0+13	321.50
		Froude Number	1.80	0+13	322.17
		Flow Type	Supercritical	Calculation Message: Flow is divided.	

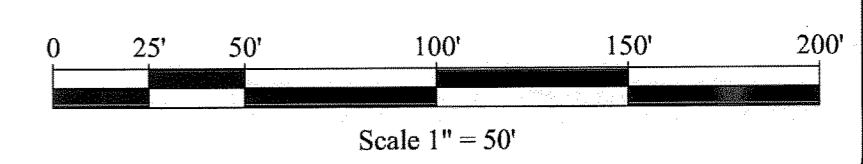


**X-1**  
Worksheet for Irregular Channel

Project Description		Results		Roughness Segments	
Worksheet	Cross Section: Irregular Chan	Mannings Coefficient	0.045	Start Station	End Station
Flow Element	Irregular Chan	Water Surface Elev.	315.50 ft	0+00	0+77
Method	Manning's For	Elevation Range	4.78 to 320.00	0+77	1+07
Solve For	Channel Depth	Flow Area	45.0 ft <sup>2</sup>	1+07	2+91
Input Data		Wetted Perimeter	168.72 ft	0+00	320.00
Channel Slo	0.010000 ft/ft	Top Width	168.72 ft	0+12	318.00
Discharge	62.20 cfs	Actual Depth	0.81 ft	0+25	316.00
Options		Critical Elevation	315.44 ft	0+80	315.60
Current Roughness Meth	ved Lotter's Meth	Critical Slope	0.049390 ft/ft	0+77	315.28
Open Channel Weighting	ved Lotter's Meth	Velocity	1.38 ft/s	0+77	314.78
Closed Channel Weighting	Horton's Meth	Velocity Head	0.03 ft	0+79	314.59
		Specific Energy	315.82 ft	1+07	315.17
		Froude Number	0.47	2+91	315.80
		Flow Type	Subcritical	2+91	318.00



THIS SHEET TO BE USED FOR 100 YEAR OVERLAND RELIEF PURPOSES ONLY!!!



**PACIULLI**

**SIMMONS & ASSOCIATES**  
Established 1744

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Engineers  
Planners  
Surveyors  
Landscape Architects  
Wetland Specialists  
Environmental Scientists  
Archaeologists

**POLICE STATION**  
**TECHNICAL SUPPORT BUILDING**  
**EXPANSION**  
TOWN OF LEESBURG  
LOUDOUN COUNTY, VIRGINIA

**100 YEAR OVERLAND RELIEF**

COMMONWEALTH OF VIRGINIA  
DAVID E. PHILLIPS  
Lic. No. 033010  
PROFESSIONAL ENGINEER

DATE: 12-07-2011  
FILE NO: 188.100  
DRN: CADD  
CKD: DEP

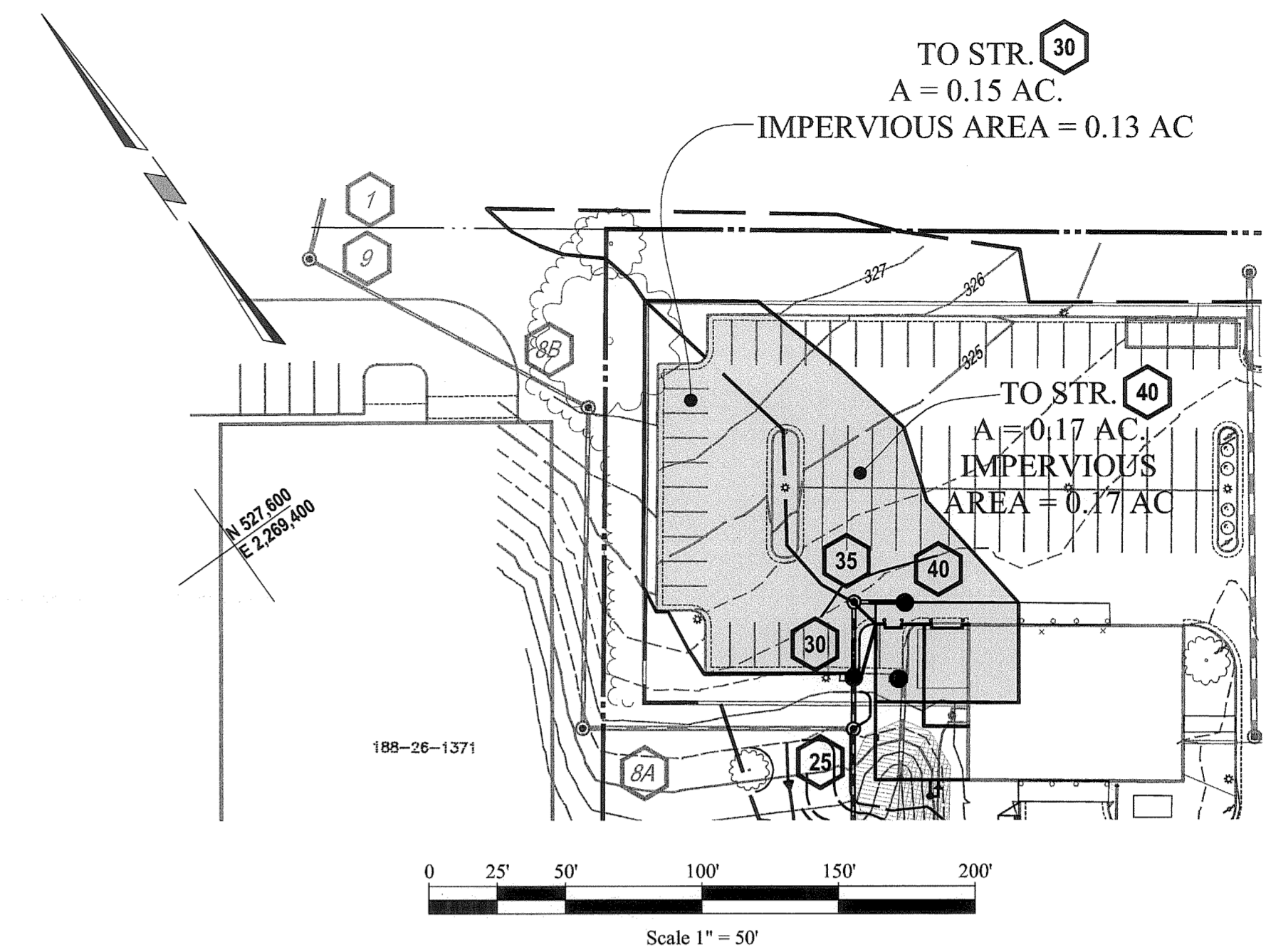
SHEET **C-9**

**STORM SEWER DESIGN COMPUTATIONS**

FROM	TO	TYPE OF STR.	DRAIN AREA (AC.)	RUNOFF COEF. C	CxA		TIME OF CONCENTRATION				TOTAL FLOW (CFS)	PIPE RUN MANNINGS "N" = 0.013				CAPACITY OF PIPE		
					INCR.	ACCUM.	TC TO PIPE	TIME IN PIPE	ACCUM. TIME	I (INHRS)		LENGTH (FT)	DIA (IN)	UPPER INVERT	LOWER INVERT	SLOPE (%)	CAPACITY (CFS)	VELOCITY (FPS)
1	9	DI-3B	0.87	0.61	0.53	0.53	5.00	0.04	5.04	7.27	3.86	20	18	323.20	322.76	2.20	15.62	8.84
9	8B	MH-2			0.00	0.53	5.00	0.43	5.43	7.27	3.86	119	18	319.70	319.00	0.59	8.08	4.57
8B	8A	MH-2			0.00	0.53	5.00	0.25	5.25	7.27	3.86	117	18	318.90	316.91	1.70	13.74	7.77
8A	25	MH-2			0.00	0.53	5.00	0.36	5.36	7.27	3.86	99	18	316.81	316.22	0.60	8.13	4.60
40	35	DI-1	0.17	0.86	0.15	0.15	5.00	0.05	5.05	7.27	1.06	19	15	318.50	318.20	1.58	8.14	6.63
35	30	MH-2			0.00	0.15	5.05	0.10	5.15	7.27	1.06	27	15	318.10	317.90	0.74	5.57	4.54
30	25	DI-3B	0.15	0.85	0.13	0.27	5.15	0.07	5.22	7.27	1.99	19	15	315.80	315.66	0.74	5.56	4.53
25	20	MH-2			0.00	0.80	5.36	0.15	5.51	7.27	5.85	48	15	315.56	315.05	1.06	6.68	5.44
64	63	ES-1	1.45	0.21	0.30	1.11	5.51	0.16	5.67	7.27	8.06	60	24	312.11	311.67	0.73	19.42	6.18
63	62	DI-3B	1.28	0.68	0.87	1.98	5.67	0.25	5.92	7.27	14.39	57	24	311.57	311.41	0.28	12.02	3.83
62	52	DI-3B	0.29	0.90	0.26	2.24	5.92	0.18	6.09	7.27	16.29	60	30	310.71	310.44	0.45	27.59	5.62
52	51	DI-3B	0.83	0.72	0.60	3.11	5.22	0.03	5.25	7.27	22.62	15	42	309.34	309.26	0.53	73.67	7.66
61	51	DI-3C	0.69	0.83	0.57	0.57	5.00	0.30	5.30	7.27	22.62	85	15	309.96	309.26	0.82	5.88	4.79
51	50	MH-2			0.00	3.68	5.25	0.47	5.72	7.27	26.79	151	42	309.16	308.76	0.26	51.92	5.40
50	49	MH-2			0.00	4.05	5.72	0.10	5.81	7.27	29.41	35	42	308.66	308.54	0.34	59.07	6.14
EX 22	EX 21	DI-3B	1.55	0.75	1.16	1.16	5.00	0.16	5.16	7.27	8.45	45	18	312.40	312.13	0.60	8.16	4.62
EX 21	EX 21A	DI-3B	0.14	0.85	0.12	1.28	5.16	0.03	5.19	7.27	9.32	13	18	311.64	311.44	1.54	13.06	7.39
60	49	ES-1	3.46	0.85	2.94	4.22	5.00	0.08	5.08	7.27	30.70	32	36	309.20	309.04	0.50	47.29	6.69
69	50	DI-3C	0.44	0.82	0.36	0.36	5.00	0.06	5.06	7.27	2.62	13	15	310.55	310.48	0.54	4.75	3.87

STARTING WATER SURFACE ELEVATION 311.34 FROM LEESBURG PUBLIC SAFETY CENTER FINAL DEVELOPMENT PLAN APPROVED 12/10/1996

**NEW SHEET**

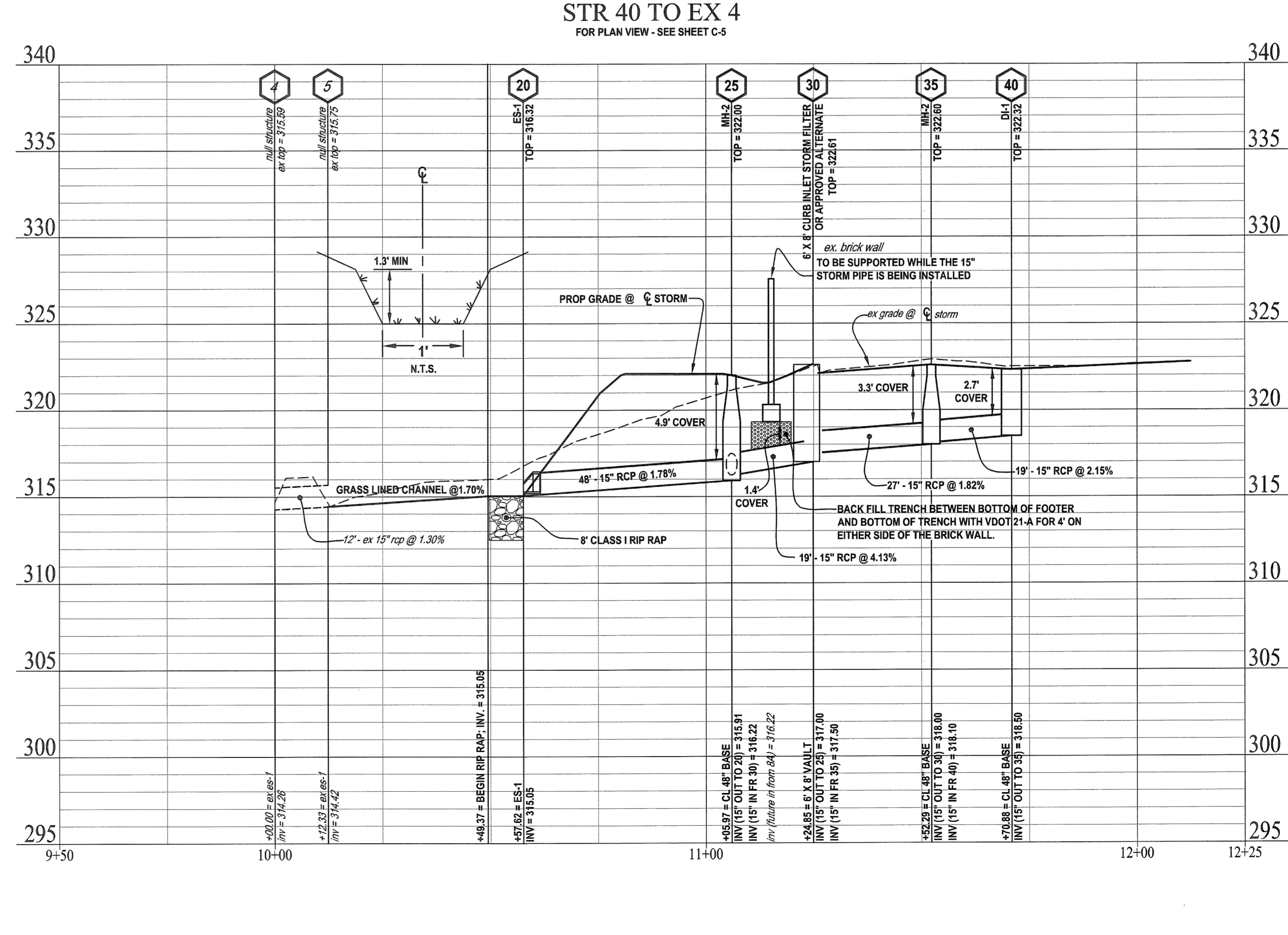
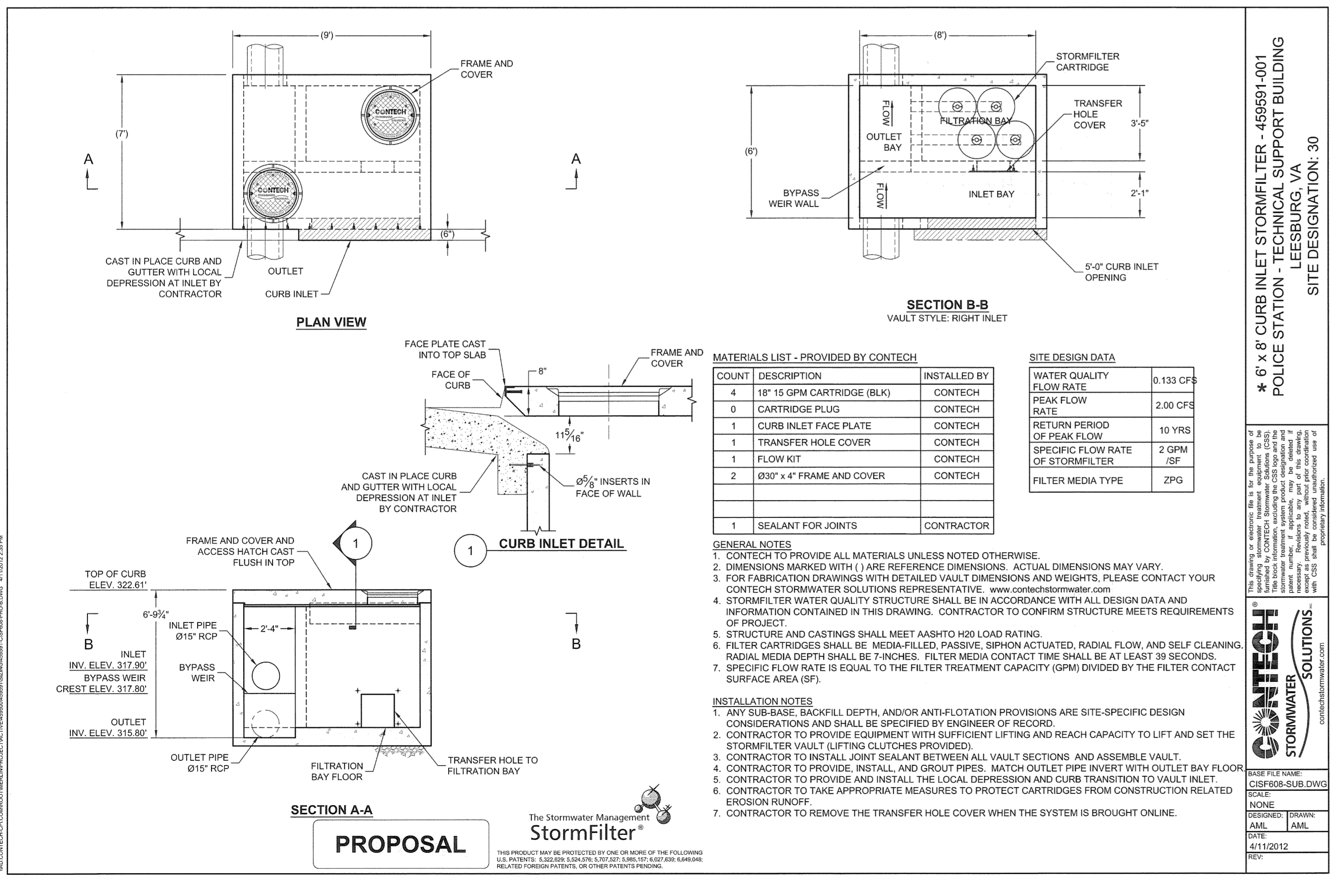


**TOWN OF LEESBURG POLICE STATION BEST MANAGEMENT PRACTICES  
6' x 8' CURB STORMFILTER AT STRUCTURE 30**

**CALCULATION OF POLLUTANT LOAD REMOVED BY PROPOSED BMP (Removed)**

STRUCTURE	BMP TYPE	ApropBMP (AC)	Impervious Area (AC)	Ibmp (%)	Lbmp (LB/YR)	EFFbmp (%)	Lremoved (LB/YR)	Composite "C" (CFS)	Q (CFS)	Type of Cartridges	Number of Cartridges
30	Stormfilter	0.32	0.30	94	0.65	65	0.42	0.86	0.10	18"	4

**POLLUTANT LOAD REMOVED= 0.42 LB/YR**



**PACIULLI**

**SIMMONS & ASSOCIATES**  
Established 1744

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Suite 200  
Leesburg, VA 20176  
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FX 703.777.8751  
EM leesburg@psaltd.com

Engineers  
Planners  
Surveyors  
Landscape Architects  
Wetland Specialists  
Environmental Scientists  
Archaeologists

**POLICE STATION  
TECHNICAL SUPPORT BUILDING  
EXPANSION**

TOWN OF LEESBURG  
LOUDOUN COUNTY, VIRGINIA

**BMP ADD ALTERNATE**

COMMONWEALTH OF VIRGINIA  
PROFESSIONAL ENGINEER  
DAVID E. PHILLIPS  
Lic. No. 033010

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