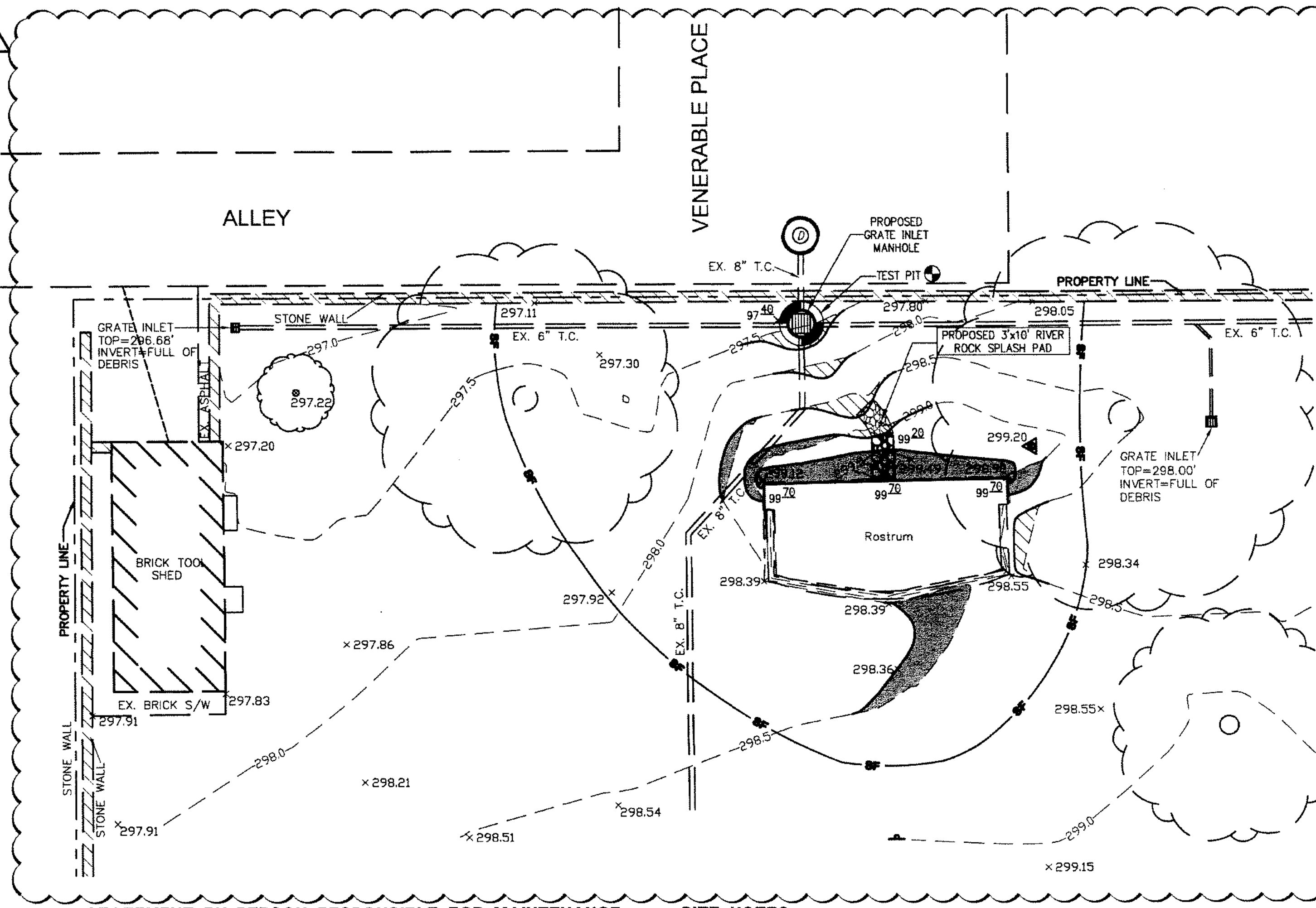
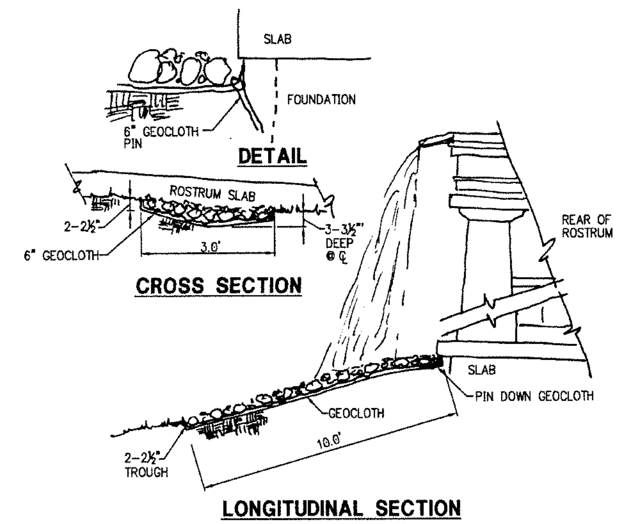


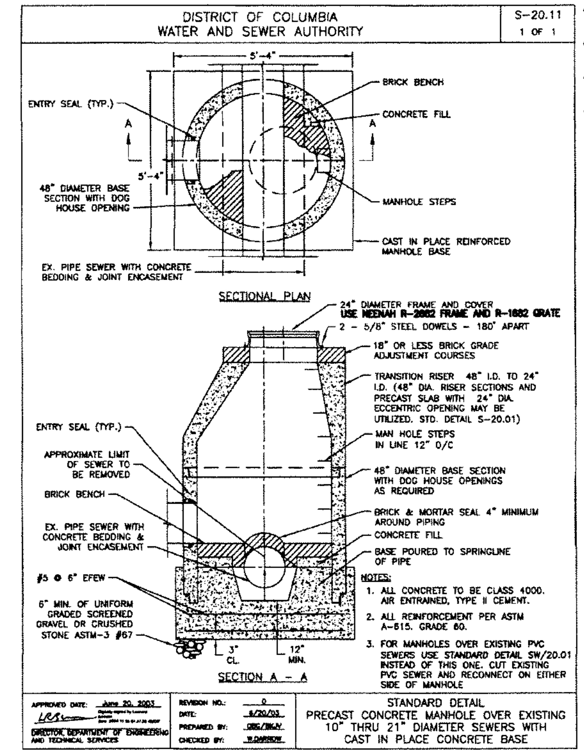




**LEGEND**

CUT

FILL

SILT FENCE ——SF——




## PROPOSED MANHOLE NOTE:

BASED ON FIELD OBSERVATION AND MEASUREMENTS, IT IS ESTIMATED THAT THE EXISTING OUTFALL PIPE WILL EXIT THE PROPOSED MANHOLE AT AN ELEVATION OF APPROXIMATELY 5 FEET BELOW THE EXISTING GRADE AT ITS INTERSECTION LOCATION WITH THE OTHER THREE DRAIN PIPES. BECAUSE THERE ARE NO RECORDS TO INDICATE THE INVERT ELEVATION OF NEITHER OF THE TWO 6 INCH DRAIN PIPES LOCATED PARALLEL THE REAR WALL NOR THE 8 INCH DRAIN PIPE FROM THE FRONT PART OF THE PROPERTY, THE CONTRACTOR SHALL BE REQUIRED TO HAND DIG A TEST PIT TO CONFIRM THEIR EXACT LOCATION AND MEASURE THEIR INVERT ELEVATIONS. BASED ON THE FINDINGS, THE CONTRACTOR WILL DESIGN THE CAST-IN PLACE BASE AND SPECIFIC THE LOCATION, SIZE AND ELEVATION OF THE THREE INCOMING PIPES AND THE ONE OUTGOING PIPE OF THE PRECAST DOGHOUSE MANHOLE. IT IS ALSO RECOMMENDED THAT THE NEENAH MANHOLE FRAME AND DRAIN COVER SPECIFIED OR ITS EQUIVALENT BE USED WITH THIS MANHOLE.

## DRAINAGE SYSTEM NOTES:

THE DRAINAGE SYSTEM ON THIS SITE NEEDS TO BE INSPECTED AND THEN CLEANED, REPAIRED AND/OR REPLACED WHERE NECESSARY TO ALLOW FOR THE PROPER DRAINAGE. THIS NEED IS PRIMARILY DUE TO THE AGE OF THE SYSTEM (85-130 YEARS OLD), AND THE RESULTANT LIKELIHOOD SILTATION BUILDUP, OF INVASIVE TREE ROOTS AND/OR OTHER BLOCKAGES WITHIN THE PIPES DUE TO PIPE SETTLEMENT OR BREAKAGE. ADD THE FACT THAT THERE ARE NO CLEANOUT PORTS OR MANHOLES FOR ACCESS TO THE PIPES, AND THAT THE STONE WALLS PREVENT VEHICLES FROM ACCESSING THE SITE, ONLY REINFORCES THE NEED TO PROVIDE A NEW MANHOLE THAT WILL ALLOW THE SYSTEM TO BE INSPECTED AND A SOLUTION PROVIDED TO ANY PROBLEMS DISCOVERED.

THE IDEAL LOCATION TO CONSTRUCT THE NEW MANHOLE IS WHERE THE 8-INCH DRAIN PIPE SYSTEM FROM THE FRONT OF THE PROPERTY JOINS THE REAR PROPERTY 6-INCH DRAIN PIPE SYSTEM AND THEN OUTFALLS UNDER THE REAR WALL TO THE WASA MANHOLE AND COMBINED SEWER IN VENERABLE PLACE. THAT LOCATION CAN BE ACCESSED BY BOTH THE VIDEO EQUIPMENT FROM THE REAR ALLEY LOCATION AS CAN THE TRUCK-MOUNTED CLEANING AND VACUUMING EQUIPMENT. WITH A GRATE COVER OVER THE MANHOLE INSTEAD OF A SOLID COVER, STORM WATER RUNOFF FROM THE ROOF OF THE ROSTRUM AND ADJACENT AREA ALONG THE REAR WALL CAN ALSO BE COLLECTED. THE EXISTING 8-INCH PIPE FROM THE NEW MANHOLE WOULD REMAIN CONNECTED TO THE MANHOLE IN VENERABLE PLACE AND CONTINUE TO TRANSPORT ALL OF THE COMBINED STORM WATER RUNOFF COLLECTED FROM THE FRONT OF THE PROPERTY VIA THE 8-INCH COLLECTION SYSTEM, FROM THE REAR PROPERTY DRAINAGE COLLECTION INLETS, AND FROM THE ROSTRUM ROOF TO THIS MANHOLE.

NORTH

10' 5' 0 10' 20'

1' = 10'

## STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

THE UNDERSIGNED AGREES TO MAINTAIN AND OPERATE THE DISCHARGE FACILITIES IN SUCH A MANNER AS TO COMPLY WITH THE PROVISIONS OF SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5. RESPONSIBILITY FOR MAINTENANCE AND OPERATION MAY BE TRANSFERRED TO ANOTHER ENTITY UPON WRITTEN NOTICE TO THE WATERSHED PROTECTION DIVISION OF THE DEPARTMENT OF HEALTH FROM THE UNDERSIGNED AND THE ENTITY ASSUMING RESPONSIBILITY, CERTIFYING THAT THE TRANSFER OF RESPONSIBILITY FOR MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5 HAS BEEN ACCEPTED. FOR MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 509 THROUGH 518 HAS BEEN ACCEPTED.

SIGNATURE OF PERSON RESPONSIBLE FOR MAINTENANCE
(IT MAY BE THE APPLICANT)

NAME AND TITLE (PLEASE TYPE):

ADDRESS:

DATE: ____________ PHONE NO. ____________

## STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

THIS IS TO CERTIFY THAT THE ENGINEERING FEATURES OF THIS STORMWATER DISCHARGE FACILITY HAVE BEEN DESIGNED/EXAMINED BY ME AND FOUND TO BE IN CONFORMITY WITH MODERN ENGINEERING PRINCIPLES APPLICABLE TO THE TREATMENT AND DISPOSAL OF STORMWATER POLLUTANTS. I FURTHER CERTIFY THAT THE FACILITY HAS BEEN DESIGNED IN ACCORDANCE WITH THE SPECIFICATION REQUIRED UNDER SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5. IT IS ALSO STATED THAT THE UNDERSIGNED HAS FURNISHED THE APPLICANT WITH A SET OF INSTRUCTIONS FOR MAINTENANCE AND OPERATION OF THE STORMWATER DISCHARGE FACILITY.

SIGNATURE OF THE ENGINEER

AFFIX SEAL: DISTRICT OF COLUMBIA — JOSEPH P. MENSCH — No. 9021 — 10/29/09 — REGISTERED PROFESSIONAL ENGINEER

JOSEPH P. MENSCH
NAME AND TITLE (PLEASE TYPE):

11860 Sunrise Valley Drive, Suite 200
ADDRESS:

Reston, VA 20191

DATE: 10/29/09 PHONE NO. (703) 391-7600

## SITE NOTES:

- REMOVE A MINIMUM OF 2 FEET OF SOD AROUND THE PERIMETER OF THE ROSTRUM. HORIZONTALLY FILL WITH SUITABLE SOIL AND COMPACT IN LIFTS TO FILL ALL VOIDS FOUND BENEATH THE SLAB.
- SALVAGE THE GRANITE HEADSTONES THAT SERVED AS THE SPLASH PAD FOR THE ROOF'S STORM WATER RUNOFF AND RETURN THEM TO ROCR.
- CREATE MINOR GRADE CHANGES OF 0.1 FEET TO 0.5 FEET TO FORM A GENTLE SWALE TO DIRECT THE STORM WATER RUNOFF FROM THE ROSTRUM ROOF TO FLOW TO THIS NEW DRAINAGE MANHOLE. THIS ACTION WILL REQUIRE MINIMUM EFFORT TO DRAIN STORM RUNOFF TO THE THREE INLETS NEAR THE REAR WALL OF THE PROPERTY.
- ALL GRADING CAN BE DONE BY SHOVEL, RAKE AND HAND COMPACTORS TO FORM THE MINOR GRADING CHANGES. CLEAN, ADDITIONAL FILL WILL BE NEEDED TO RAISE THE GRADE IMMEDIATELY ADJACENT TO THE ROSTRUM FOUNDATION. THIS WILL PERMIT THE STORM WATER RUNOFF TO AGAIN DRAIN AWAY FROM THE ELEVATED ROSTRUM.
- AFTER FILLING IN THE VOIDS UNDER THE ROSTRUM FOUNDATION SLAB, RAISING THE GRADE AT THE REAR OF THE ROSTRUM, AND MAKING MINOR GRADING CHANGES TO NEARBY AREAS, THE SPLASH PAD FOR THE STORM WATER BEING DISCHARGED FROM THE ROOF WILL BE REPLACED. THIS 3 FT X 10 FT PAD SHOULD ABUT THE ROSTRUM AND BE CENTERED DIRECTLY UNDER THE OVERHEAD SCUPPER OR ROOF DOWNSPOUT:
  - EXCAVATE A SHALLOW 2-2½" CONCAVE SWALE DEPRESSION ALONG THE E-W CENTERLINE OF THE RECTANGLE CURVED SLIGHTLY IN THE DIRECTION OF THE NEW GRATE INLET (MH) NEAR THE WALL. THE SWALE SHOULD FOLLOW THE NEW CONTOURS AND SLOPE TOWARDS THE NEW DRAINAGE MANHOLE;
  - LINE THE BOTTOM AND PART WAY UP THE SIDES OF THIS SHALLOW EXCAVATION WITH A MEDIUM WEIGHT "TRIVIRA SPUNBOND TYPE II" GEOTEXTILE FABRIC (OR EQUIVALENT); TURN THE 2-3"FLAP ADJACENT TO THE SLAB UP AND SECURE IT WITH 6" WIRE STAPLES OR PINS DRIVEN INTO THE SOIL.
  - FROM THE STOCKPILE OF 1"-3" RIVER ROCK (SOMETIMES CALLED "RIVER ROUNDS"), TAMP IN THE LARGER 2"-3" RIVER ROUNDS AND DISPERSE THEM OVER THE ENTIRE PAN;
  - FOLLOW WITH A DISPERSION OF SMALLER SIZED RIVER ROCK TO FILL THE VOIDS TO THE EXTENT THAT THE GEOTEXTILE IS COMPLETELY COVERED; FURTHER DISPERSE TOP SOIL OVER ALL THE SPLASH PAD STONE TO FURTHER FILL IN SMALL VOIDS, BUT LEAVING MOST OF THE STONES EXPOSED.
  - FINISH BY LIGHTLY SPRAYING WITH WATER TO SETTLE THE TOP SOIL DOWN BETWEEN THE STONES AND STABILIZE THE SPLASH PAD STONES

## NOTICE REQUIRED

**CONTRACTOR SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST THREE WORKING DAYS PRIOR TO THE COMMENCEMENT OF EXCAVATION OR DEMOLITION.**

**CONTACT "MISS UTILITY" AT 811**

## GENERAL NOTES:

- THE CONTRACTOR MUST HAND-DIG TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES. UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE. THE CONTRACTING OFFICER SHALL BE NOTIFIED IMMEDIATELY OF ANY UTILITY FINDINGS WHICH DEVIATE FROM THE CONDITIONS SHOWN.
- VERIFY LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE, MR. TED DYSON, DC/WASA (202-787-4299) AND "MISS UTILITY" AT (811) 3 WORKING DAYS BEFORE BEGINNING ANY EXCAVATIONS. HAND DIG TEST PITS AT ALL UTILITY CROSSINGS AND DETERMINE EXACT CLEARANCE OF ALL PROPOSED INSTALLATIONS WELL IN ADVANCE OF CONSTRUCTION. NOTIFY CONTRACTING OFFICER OF ANY CONFLICTS WITH PLAN ELEVATIONS.
- OMISSIONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IMMEDIATELY OF ANY INFORMATION CONCERNING FOUND UTILITY NOT SHOWN ON PLANS.
- EXISTING SURFACE CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING CONDITIONS. CONTRACTOR TO COORDINATE EXTENT WITH CONTRACTING OFFICER.
- ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF THE DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION AND WATER AND SEWER AUTHORITY.
- THE TOP ELEVATION OF ANY OF THE GRATE INLETS, AT THE REAR OF PROPERTY, CAN BE USED AS THE CONTROL POINTS FOR THE UTILITY CONSTRUCTION IN THE FRONT PART OF THE PROPERTY. THE ELEVATION SHOWN ON THIS SHEET COINCIDES WITH DCDPW DATUM ELEVATIONS.

NATIONAL PARK SERVICE

A/E FIRM
PRIME/ARCH:
BEYER BLINDER BELLE
ARCHITECTS AND PLANNERS, LLP
WASHINGTON, DC
CIVIL ENG.:
WILES MENSCH CORPORATION
RICHMOND, VA

| Mark | Sheet | REVISION | Date | Initial |
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| 1 | | REVISION 1 | 10/30/09 | SW |
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SITE IMPROVEMENTS
ROSTRUM VICINITY

C1.06
SUB SHEET NUMBER

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE - NATIONAL CAPITAL REGION
BRANCH OF DESIGN AND CONSTRUCTION

REHABILITATE DETERIORATED BATTLEGROUND NATIONAL CEMETERY SUPERINTENDENT'S LODGE AND ROSTRUM
TITLE OF PROJECT
6625 GEORGIA AVE NW, WASHINGTON, DC
LOCATION WITHIN PARK
ROCK CREEK PARK
NAME OF PARK

S.W. DESIGNED
S.T. DRAWN
S.W. CHECKED
DWG. NO.
DATE APRIL 24, 2009
SHEET 6 OF 12