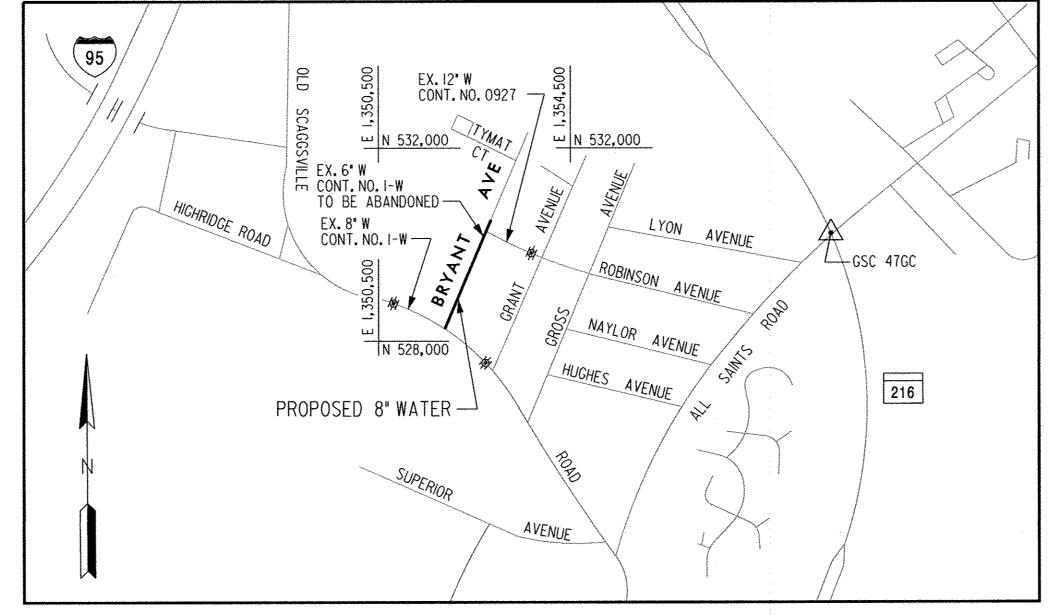
GENERAL NOTES

- I. APPROXIMATE LOCATIONS OF EXISITNG UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF
- 2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED BY JMT IN FEBRAURY 2007.
- 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO 47GC AND 0051. ALL VERTICAL CONTROLS
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT @ ELEVATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL VOLUME IV "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)". THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 7. WHERE TEST PITS HAVE BEEN MADE ON THE EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR 2 WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- 8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST 5 WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 - BG&E (CONSTRUCTION SERVICES)...... 410-850-4620 BG&E (EMERGENCY)... BUREAU OF UTILITIES (DPW).... COLONIAL PIPELINE CO. . 800-257-777 MISS UTILITY..... STATE HIGHWAY ADMINISTRATION...... 410-531-5533
 - ... 800-743-0033 OR 410-224-9210
- 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OR EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- II. CONTRACTOR SHALL NOTFLY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST 5 WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OR THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- 12. ALL WATER MAINS SHALL BE DIP OR PVC UNLESS OTHERWISE SPECIFIED.
- 13. TOP OF WATER MAIN SHALL HAVE A MINIMUM 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- 14. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANARD DETAILS UNLESS OTHERWISE PROVIDED ON THE DRAWINGS.
- 15. ALL WATER HOUSE CONNECTIONS SHALL BE CONNECTED TO EXISTING OUTSIDE METER SETTINGS, UNLESS OTHERWISE SPECIFIED, AND CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)".
- 16. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTIONS 1000 AND 1005 OF THE STANDARD DETAIL. ALL FIRE HYDRANT LEADS SHALL BE PVC PIPE MEETING REQUIREMENTS OF AWWA C900 DRIB AND CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL IV "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST
- 17. ALL WATER MAINS CONSTRUCTED IN FILL AREAS SHALL BE RESTRAINED DUCTILE IRON PIPE CLASS 54 MEETING THE REQUIREMENTS OF AND CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)".
- 18. THE FOLLOWING NOTE IS ADDED FOR HOWARD COUNTY STANDARD DETAIL W2.22, BUTTRESSES AND ANCHORAGES FOR VERTICAL BENDS WHEN ANCHORING PVC PIPE: THE STRAPPING IN CONTACT WITH THE PIPE SURFACE SHALL BE I-INCH WIDE AND 1/4 -INCH THICK STEEL; THE REMAINING PORTION OF THE STRAP SHALL BE REINFORCING BAR SIZED IN ACCORDANCE WITH THE PERTINENT CHART ON THE DETAIL.
- 19. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 20. CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 21. CONTRACTOR SHALL NOTIFY THE BUREAU OF UTILITIES, HOWARD COUNTY, 15 DAYS PRIOR TO WATER MAIN SHUT
- 22. CONTINUITY TEST STATION SHALL BE PLACED ADJACENT TO EACH FIRE HYDRANT AND OTHER LOCATIONS AS SHOWN ON THE PLAN SHEET. CONTINUITY TEST STATIONS SHALL CONFORM TO DETAIL PLATES W-1.15 AND G-8.21. ANCHORAGES SHALL BE INSTALLED UNDER WATER VALVES IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)".
- 23. WATER MAINS SHALL BE FILLED WITH WATER AND BROUGHT TO 150 PSIHYDROSTATIC TEST PRESSURE AT THE LOW POINT FOR 2 HOURS.
- 24. CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKEOUT FOR ALL NECESSARY LINES, GRADES AND ELEVATIONS OF THE PROPOSED FACILITIES.

ADDRRESS	STATION	TOLEN	iterline of water meter
9217	1+71	16.5	EIGHT
9216	1+97	Z8.5'	LEFT
9213	3+06		RIGHT
9210	3+92	25.5'	LEFT
9206	3+96	24.0	LEFT
9209	4+06	17.0	RIGHT
9202	4+63	29,5'	Left
9200	4+90	Z3.5	LEFT
9142	5+22	26.0	LEFT
9205	5+19	17.0	RIGHT
9201	6+11	19.5	RIGHT
9140	6+75	22.0	LEFT
9155	6+83		RIGHT
9145	8+15	16.0	RIGHT (TIED INTO EX. 12"WATER)
9130	8+63	29.0'	LEFT (TIED INTO EX. IZ"WATER)

BRYANT AVENUE WATER MAIN HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT NO. W-8248 CONTRACT NO. 44-4757



LOCATION MAP SCALE: I* = 600'

RESIDENTIAL TYPE OF BUILDING: NUMBER OF WATER HOUSE CONNECTIONS: LITTLE PATUXENT DRAINAGE AREA: PRESSURE ZONE: WATER TEST GRADIENT:

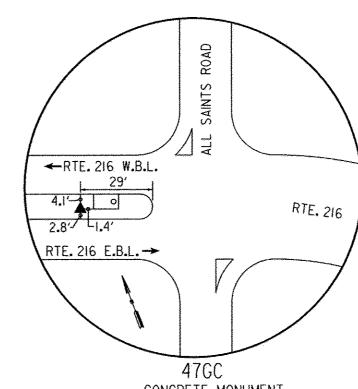
HORIZONTAL AND VERTICAL CONTROL BASED ON MARYLAND NAD 1983/1991 AND NAVD 1988 DATUM. HOWARD COUNTY GEODETIC SURVEY CONTROL NUMBERS: HOWARD COUNTY MONUMENTS NO. 47GC NO. 0051 OLD 47GA (Horiz. ONLY) PID No. A18508 (Horiz. & Vert.) V 532,939.75 N 532,404.18 E 1,354,223.50 E 1,351,627.37 ELEV. 226.27 ELEV. 349.70

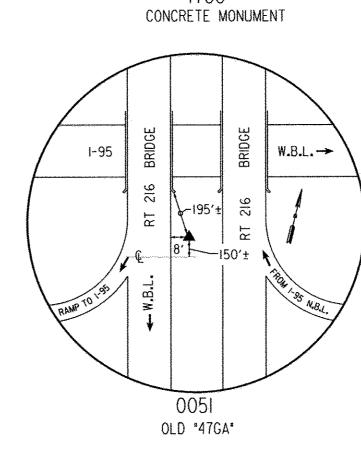
LEGEND

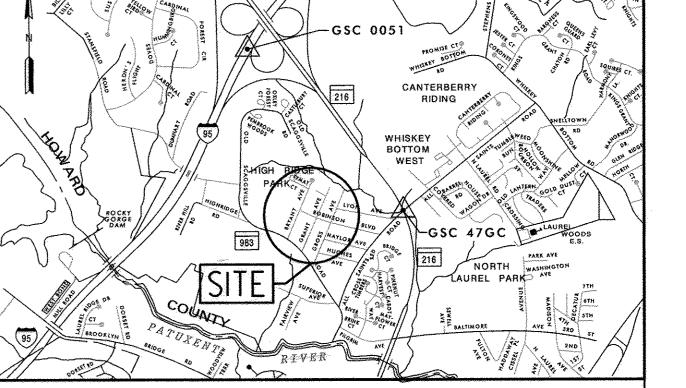
FENCE LINE	XX		
RIGHT OF WAY LINE		PROPOSED WATER MAIN	
LIMIT OF DISTURBANCE	— LOD ——	PROPOSED WATER SERVICE	
WATER	w	PROPOSED WATER VALVE	
GAS		PROPOSED WATER CAP	E — w —
SAN, SEWER	— G — -	PROPOSED TEST STATION	\oplus
JAN. JEHEU	— — SAN —	514 W. 750	Ь
UG ELECTRIC	— F — -	EX. WATER VALVE	
UG TELEPHONE	T	EX. FIRE HYDRANT	rQu
		EX. WATER METER	•••
UTILITY POLE	-0-	TEST PIT	
TRAVERSE POINT	\triangle	FUTURE STORM DRAIN PIPE	- Brosses
MAILBOX	M.B.	(NOT IN CONTRACT)	
DECIDUOUS TREE	\odot		

RESTORA	TION SCHEDULE	
LOCATION	DISTANCE	TYPE
BRYANT AVENUE	710 L.F.	MACADAM

PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT IAM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 25830, EXPIRATION DATE: 02/05/13







VICINITY MAP SCALE: 1" = 2000'

INDEX OF SHEETS					
SHEET NO.	DESCRIPTION				
	TITLE SHEET				
2	PLAN AND PROFILE				
)	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS				

		QUANTIT	IES					
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER				
8" W PVC C900	L.F.	698	706	JMEAGLE/LBWAT.				
6" W PVC C900 (FH)	L.F.	34	32	IMEAGLE/LBWATER				
11/2" WHC COPPER	L.F.	207	405	Cambridge Lee LBWM				
8*X8* TS&V	EA.		l	Ford MeterBox/LBWAT				
12"X8" TS&V	EA.		1	Ford Meter-Box/LBWAT				
8*X8* TEE	EA.		1	Tyler/LBWATER				
TEST STATION	EA.	2	2	Prism Precost/LBWAT				
8"X6" TEE (FH)	EA.	2	2	Tyler / LB WATER				
6" VALVE (FH)	EA.	2	Z	AMERICAN Flow Control/L	B			
6° CAP	EA.	7	2	Tyler/LB WATER				
8" CAP	EA.	l'	1	Tyler/LBWISTER				
METER VAULTS	es.		15	Prism Precast/UBW.				
NAME OF UTILITY COM	NAME OF UTILITY CONTRACTOR: W.F. WILSON + SONS, INC.							
			AS-BUILT I	DATE: 12-3-2012				
HYDRANT	EL.		1	AMERICAN FLOW CONTR	Lot			

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

WWARD SOIL CONSERVATION DISTRICT

By the Developer: "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of

Attendance at a Department of the Environment approved Training Program for the Control of Sediment and Erosion before beginning the project. Ialso authorize periodic on-site inspection by the Howard Soil Conservation District.

BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS

By the Engineer:

SPARKS, MD 21152

"Icertify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

72 LOVETON CIRCLE

ELECTION DISTRICT NO. 6

7.11.2012

AS SHOWN

SHEET

AS BUILT

DATE: 2-8-2013

BRYANT AVENUE WATER MAIN

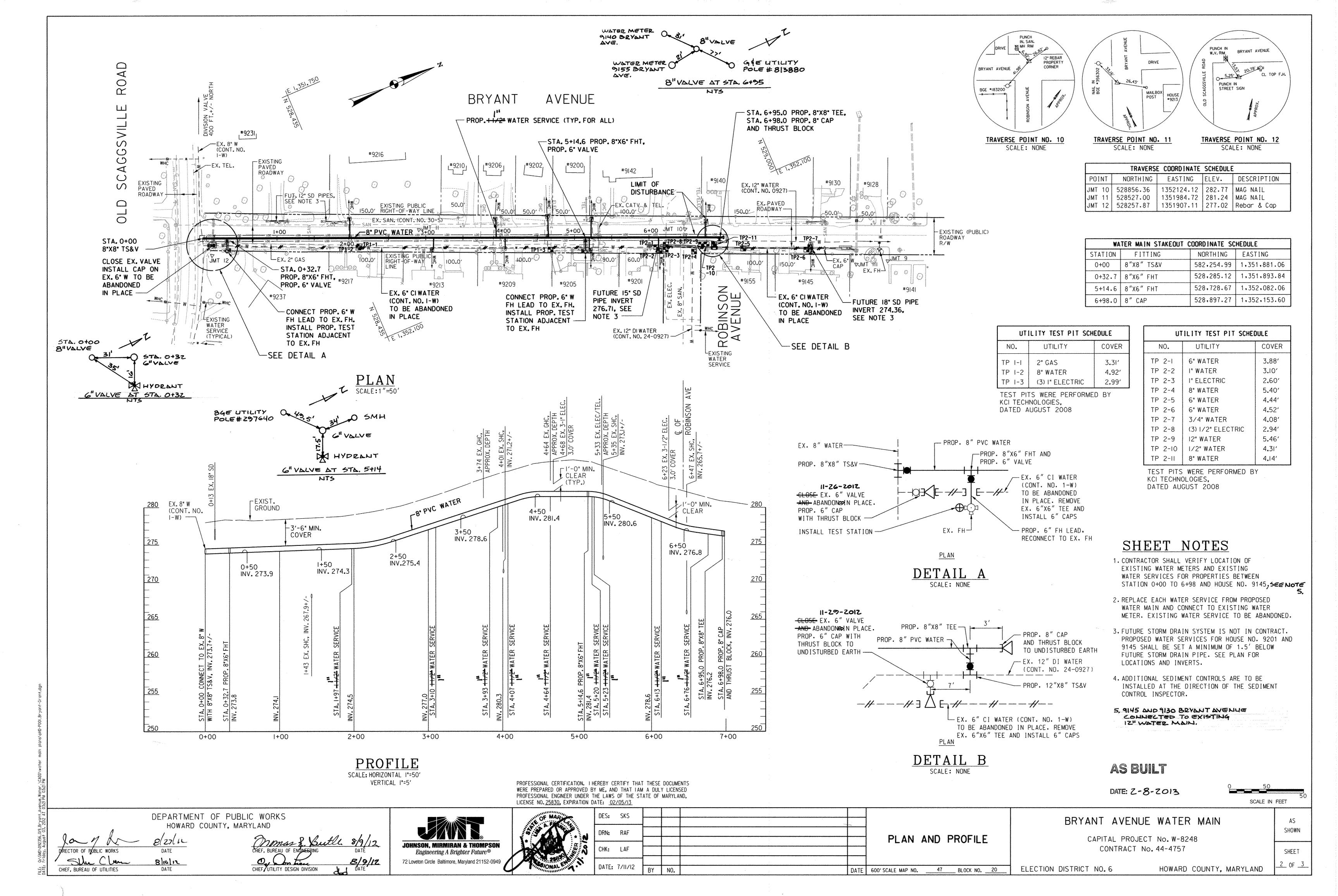
CAPITAL PROJECT No. W-8248

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 8/27/11 DIRECTOR OF PUBLIC WORKS 8)10/12 CHIEF, BUREAU OF UTILITIES



MADO	DES:
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	DES:	SKS			:		•
L		J.10					
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r	}}				:		
l	DATE:	7/11/12	BY	NO.		DATE	600' SCALE MAP NO. 47 BLOCK NO. 20



STANDARD SEDIMENT CONTROL NOTES

- 1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (410) 313-1855.
- 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- 3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within; a) 7 calender days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. I. Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

0.93 Acres

7. Site Analysis: (NOT FOR BIDDING PURPOSES)

Total Area of Site 0.05 Acres Area Disturbed 0.04 Acres 0.01 Acres Area to be roofed or paved

Area to be vegetatively stabilized Total Cut Total Fill

466 Cu Yds. Off-site waste/borrow area locations: UNKNOWN

- 8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 9. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- 10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- II. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each work day, whichever is shorter.
- 12. Contractor shall place excavated materials on the uphill side of trench and place silt fence on downhill side of trench.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 bs/1000 sq.ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs/acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.).
- Acceptable -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs/acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil.

Seeding -- For the period March I -- April 30, and August I -- October 15, seed with 60 lbs/acre (1.4 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 -- July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs/acre (.05 lbs/1000 sq.ft.) of weeping lovegrass. During the period of October 16 -- February 28, protect site by: Option I -- Two tons per acre of well-anchored straw mulch and seed as soon as possible in the spring.

Option 3 -- Seed with 60 lbs/acre Kentucky 30 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

Maintenance -- Inspect all seeding areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

Seedbed preparation: -- Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: -- Apply 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq.ft.).

Seeding: -- For periods March I -- April 30 and from August 15 -- October 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs/1000 sq.ft.). For the period May 1 -- August 14, seed with 3 lbs/acre of weeping lovegrass (.07 Ibs/1000 sq. ft.). For the period November 16 -- February 28, protect site by applying 2 tons/acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: -- Apply 1-1/2 to 2 tons/acre (70 to 90 lbs/1000 sq. ft.) of unrotted weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/ 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

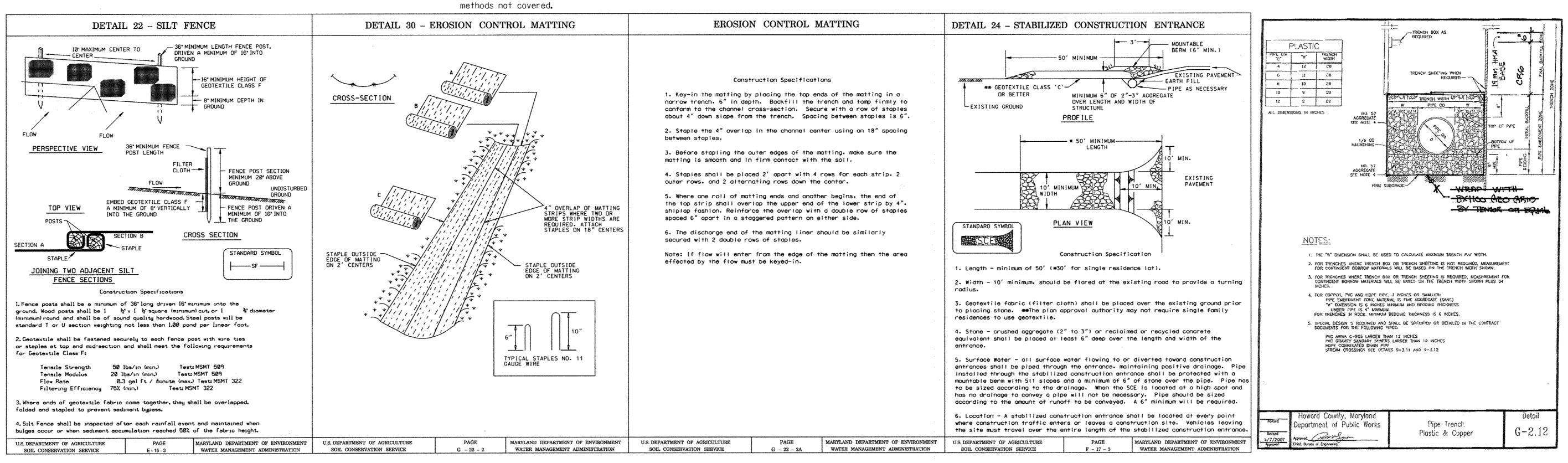
Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and

SEQUENCE OF CONSTRUCTION

- I. OBTAIN A GRADING PERMIT.
- 2. CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION DIVISION (410-313-1870) PRIOR TO STARTING DATE.
- 3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AT THE DIRECTION OF SEDIMENT CONTROL INSPECTOR.
- 4. EXCAVATE AND INSTALL PROPOSED 8" WATER MAIN AND WATER HOUSE CONNECTIONS. SOIL FROM THE TRENCHING OPERATION IS TO BE PLACED ON THE UPHILL SIDE OF EXCAVATION, TRENCHING IS LIMITED TO THE LENGTH WHICH CAN BE STABILIZED AND BACKFILLED AT THE END OF EACH WORKING DAY, RESTORE EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS. (TOTAL DURATION 45 DAYS).
- 5. RESTORE ALL DISTURBED AREAS WITH PAVEMENT OR PERMANENT SEEDING (45 DAYS).
- 6. UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES (2 DAYS).

BEST MANAGEMENT PRACTICE (BMP) NOTES

- I. NO EXCESS FILL. CONSTRUCTION MATERIALS, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS OR THE 100-YEAR FLOODPLAIN.
- 2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS. NONTIDAL WETLAND BUFFERS, WATERWAYS OR THE 100-YEAR FLOODPLAIN.
- 3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE.
- 4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NONTIDAL WETLANDS. NONTIDAL WETLANDS BUFFERS. WATERWAYS OR THE 100-YEAR FLOOD PLAIN.
- 5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.
- 6. RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
- 7. ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.) AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 3) FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- 8. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS.
- 9. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM.
- USE IWATERS. IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH I THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.
- 10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAYS.
- II. CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES. UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER.



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME. AND THAT IAM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 25830, EXPIRATION DATE: 02/05/13

AS BUILT

DATE: 2-8-2013

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Bliolis

Engineering A Brighter Future® 72 Loveton Circle Baltimore, Maryland 21152-094



		6,	
		-	EROSION AND SEDIMENT
			CONTROL NOTES AND DETAILS
	·		

DATE 600' SCALE MAP NO.

47 BLOCK NO. 20

BRYANT AVENUE WATER MAIN

CAPITAL PROJECT No. W-8248 CONTRACT No. 44-4757

NONE SHEET <u>3</u> of <u>3</u>

SCALE:

HOWARD COUNTY, MARYLAND ELECTION DISTRICT NO. 6

CHIEF, BUREAU OF UTILITIES