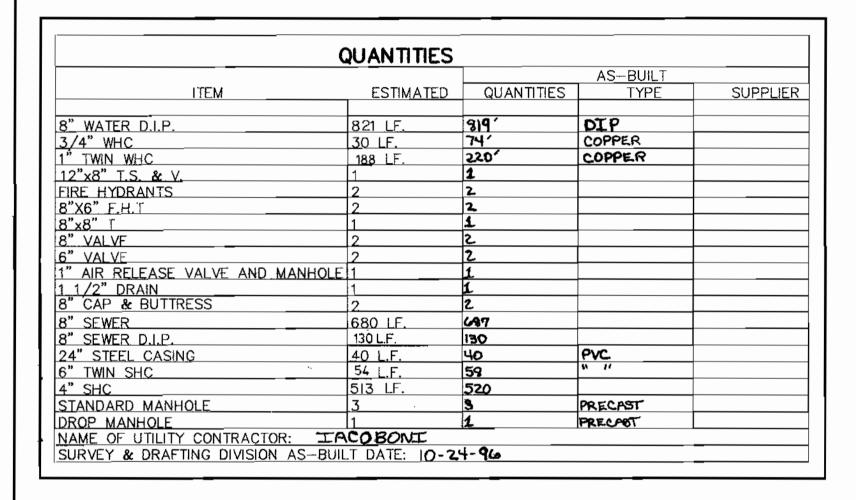
## CAPITAL PROJECT NO. S-6695 $CONTRACT\ NO.\ 10-3471$

# HARWOOD PARK

IVY TERRACE WATER AND SEWER MAIN EXTENSIONS LOTS: 1150 - 1160, 1183 - 1194 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS



"SEDIMENT CONTROL TO BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STDS. & SPECS. (VOL. IV) OF THE HOWARD COUNTY DESIGN MANUAL AND THESE PLANS."

BENCH MARKS								
BENCH MARK NO.	TRAVERSE NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION			
1	100	PK NAIL	494314.85033	873422.34996	96.59			
2 .	107	PK NAIL	494511.08940	873056.91870	125.18			

	AS-BUJ				UNECTIONS
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION	Lots	1" Line		Station	Off <b>s</b> et
WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION	1151 1152	12'	3	8+19	RT
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. I ALSO AUTHORIZE	1153	12'	3′ 3′	7+69	RT
PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.	1155 1156	12'	3 3	7+19	RT
1218 10/12/95	1157 1157	12	<b>ள்ள</b> ள் இ	6+69	RT
DEVELOPER'S SIGNATURE DATE	1159	0	14'	6+69	RT
DEVELOPER'S NAME	1193 1194	<b>23</b> ′	3′ 3′	8+20	LT
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED	1192. 1191	23′	3′, 3′	7+70	LT
ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANGE WILL THE REQUIREMENTS OF	1190	23′	3, 3	7+20	LT
THE HOWARD SOIL CONSERVATION F DISTRICT	11 <b>83</b> 1187	23'	3′, 3′	6+70	LT
While 1 00 14 1995	1194 1185	<b>23</b> ′	3′, 3′	6+21	LT
ENGINEER'S SIGNATURE DATE	E811 <b>181</b> 1	23′	3',	5+70	LT
REVIEWED FOR HOWARD: SCD AND	1150	o'	12'	8+39	RT
MEETS TECHNICAL REQUIREMENTS.	1123	17	ີ່ສ <b>໌</b>	3+73	LT
Patricia English 1/13/95 USDA-NATURAL RESOURCES LINE DATE CONSERVATION SERVICE	1125	\7 <sup>'</sup>	3,' 3,'	3+75	LT
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL					

	BALTHORE: WASHINGTO	CONTRACT		A LAND TO SERVICE OF THE PARTY	•
706-	CONTRACT	01 23-S	Tion R		م اللح
	BENCH MAR	1/2			
	\$ M	RPACE AND A STATE OF THE STATE		ALEONO	BENCH MARK #
× '	- Mar 5320-Mar	all str.			
TYPE OF NUMBER	BUILDING: SINGLE OF PARCELS: 1 VATER HOUSE CON	FAMILY ATTACH	: 22) FOR C	R & SEWER CODI COUNTY USE ONL R NO.: A 04	
NO. OF S	SEWER HOUSE CON E AREA: PATAPSC	INECTIONS: 28	SEWER	NO.: 215180° TEST GRADIEN	T: <u>550</u>

	INDEX OF DRAWINGS
NO.	DESCIPTION
1	TITLE SHEET, INDEX OF DRAWINGS, GENERAL NOTES
2	WATER & SEWER SITE PLAN
3	WATER MAIN PROFILE
4	SEWER MAIN PROFILE
5	SEDIMENT & EROSION CONTROL: NOTES & DETAILS

#### GENERAL NOTES

#### PART I

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.

ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.

- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-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 THE 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 DETAIL FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON 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 TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

BG & E CO.(CONTRACTOR SERVICES) 850-4620 BG & E CO.-UNDERGROUND DAMAGE CONTROL 787-9068 BUREAU OF UTILITIES (DPW) 313-4900 CHESAPEAKE & POTOMAC TELEPHONE CO. 597-8585 COLONIAL PIPELINE CO. 795-1390 MISS LITERY 1-800-257-7777

- 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
- 10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, @ (410) 313-2450 AT LEAST FIVE 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 OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

#### PART II WATER

- 1. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'- 6" COVER UNLESS OTHERWISE
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER

#### PART III SEWER

- 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER. STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER ARE USED, SET TOP
- OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS. 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

PLAN REFERENCE NUMBER: S-6695-1 EP-MAN

AS SHOWN

1 of 5

DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF UTILITIES

EROSION AND SEDIMENT CONTROL BY THE SOIL

HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC. 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042 (410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



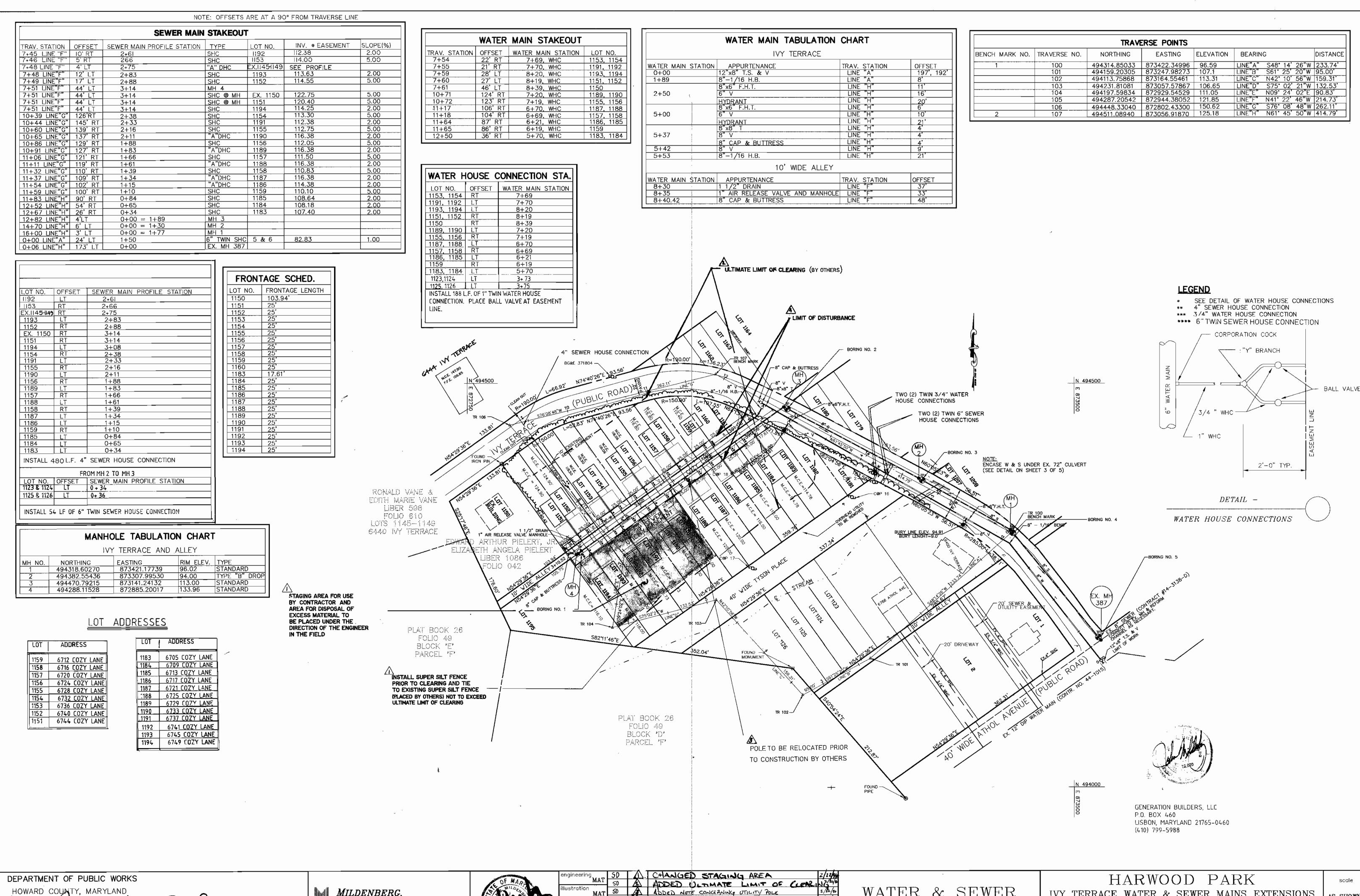
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HARWOOD PARK

IVY TERRACE WATER & SEWER MAINS EXTENSIONS CAPITAL PROJECT NO. S-6695

CONTRACT NO. 10-3471 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

28-BUILT 10-24-96



DIRECTOR OF PUBLIC

HIEF, WATER AND SEWER DIVISION DATE

MILDENBERG,
BOENDER & ASSOC., INC.

Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Faz.

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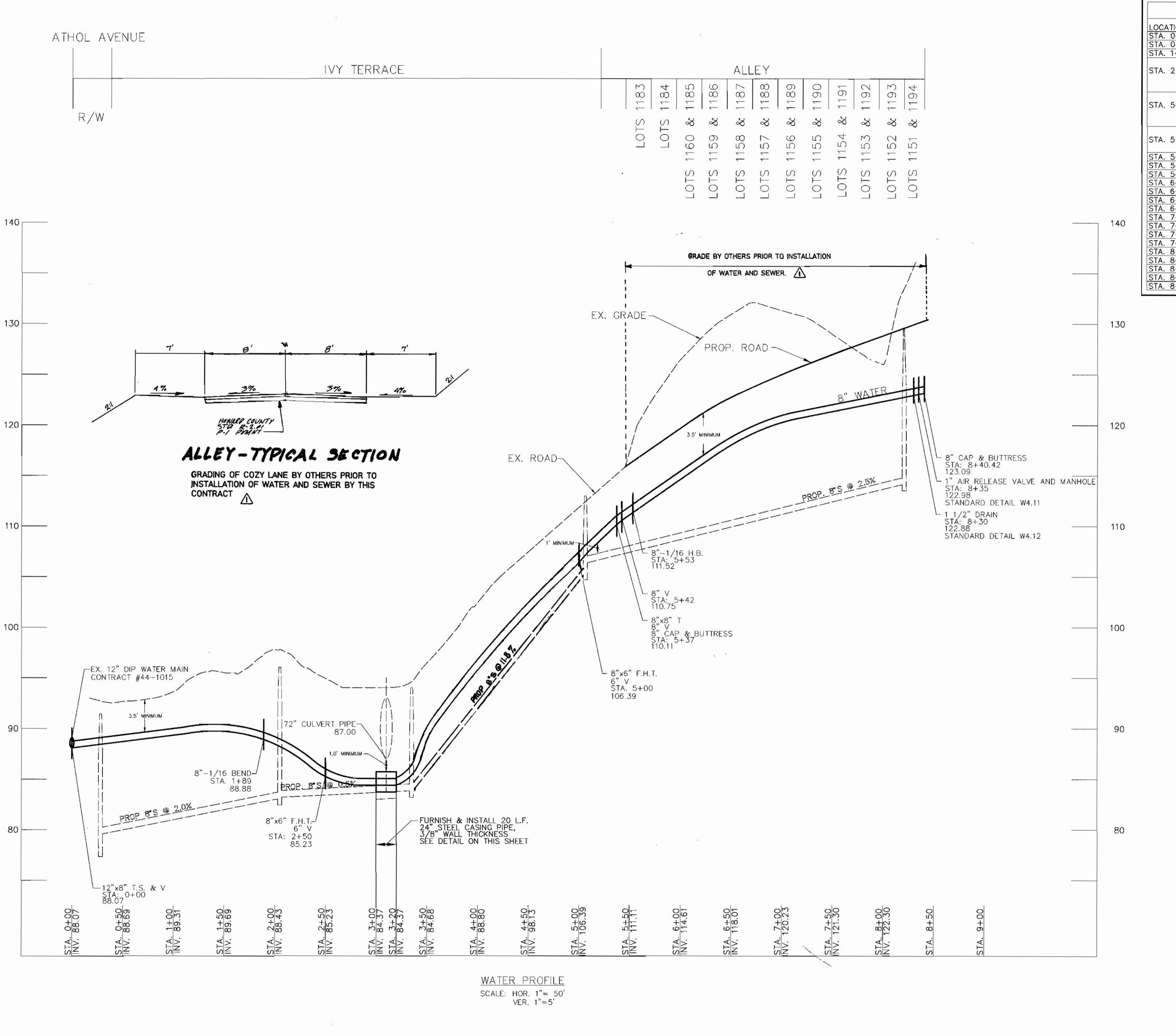
WATER & SEWER SITE PLAN

BLOCK NO. 3

IVY TERRACE WATER & SEWER MAINS EXTENSIONS
CAPITAL PROJECT NO. S-6695
CONTRACT NO. 10-3471

1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

2 of 5



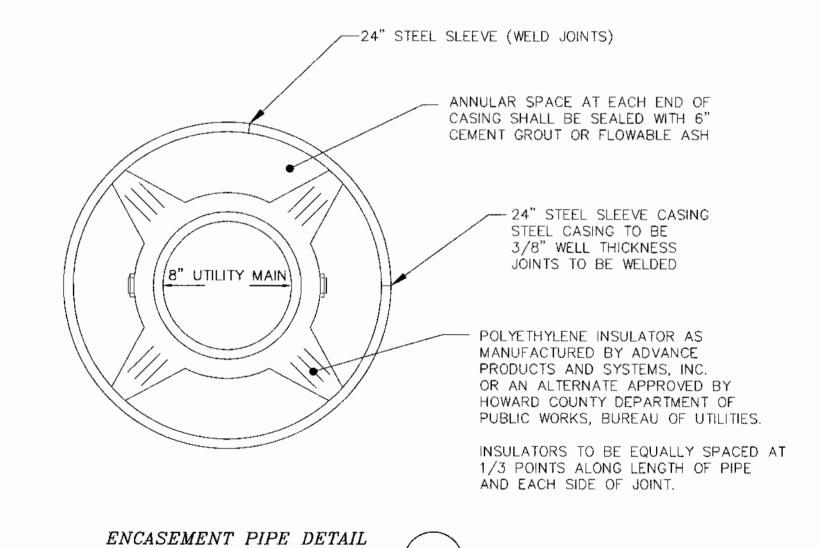
WATER SUPPLY RESTORATION SCHEDULE LENGTH APPURTENANCE

840.42 8" D.I.P. PIPE

12"x8" T.S. & V

8"-1/16 H.B.

8"x6" F.H.T. LOCATION STA. 0+00 TO STA. 8+40.42 STA. 0+00 PAVEMENT, SEED & MULCH PAVEMENT STA. 1+89 PAVEMENT, SEED & MULCH STA. 2+50 PAVEMENT, SEED & MULCH HYDRANT 6" D.I.P. PIP STA. 5+00 PAVEMENT, SEED & MULCH HYDRANT 6" D.I.P. PIPE STA. 5+37 PAVEMENT, SEED & MULCH 8" CAP & BUTTRESS 8" V 8"-1/16 H.B. 1" TWN WHC 3/4" WHC 1" TWN WHC PAVEMENT, SEED & MULCH PAVEMENT, SEED & MULCH SEED & MULCH STA. 5+53 STA. 5+53
STA. 5+70, LT, LOTS #1183, #1184
STA. 6+19, RT, LOT #1159
STA. 6+21, LT, LOTS #1185, #1186
STA. 6+69, RT, LOTS #1187, #1158
STA. 6+70, LT, LOTS #1187, #1188
STA. 7+19, RT, LOTS #1155, #1156
STA. 7+20, LT, LOTS #1189, #1190
STA. 7+69, RT, LOTS #1153, #1154
STA. 7+70, LT, LOTS #1191, #1192
STA. 8+19, RT, LOTS #1151, #1152
STA. 8+20, LT, LOTS #1193, #1194
STA. 8+30
STA. 8+35 SEED & MULCH 1" TWIN WHC SEED & MULCH 1" TWIN WHC SEED & MULCH
1 1/2" DRAIN SEED & MULCH
1" AIR RELEASE VALVE AND MANHOLE SEED & MULCH
3/4" WHC SEED & MULCH STA. 8+35 STA. 8+39, RT, LOT #1150



NO SCALE



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

CHIEF, WATER AND SEWER DIVISION DATE

MILDENBERG,
BOENDER & ASSOC., INC.

Engineers Planners Surveyors

5073 Degree Hell Drive Suits 202 Ellientt City, Nameland, 21042

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WATER MAIN
PROFILE

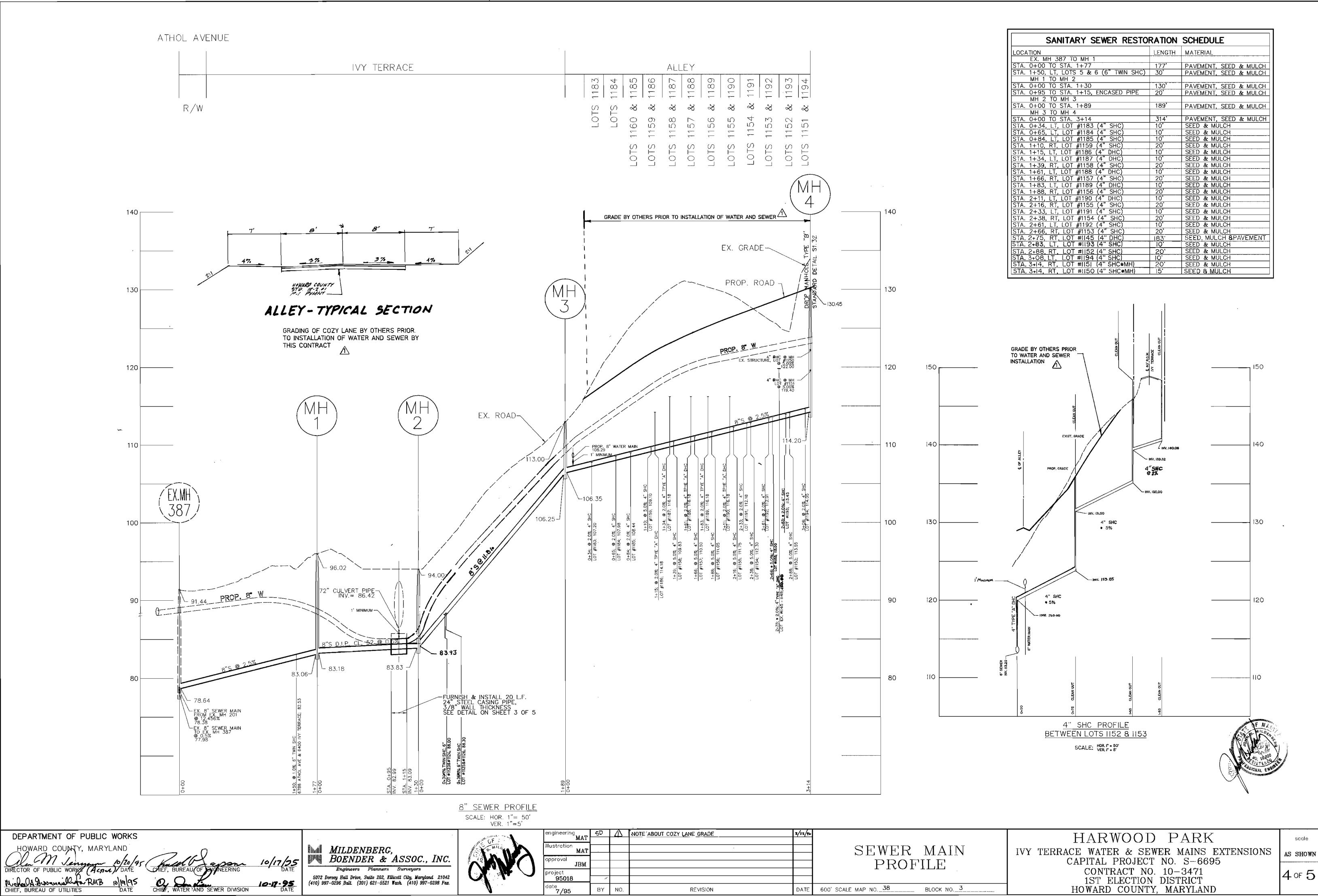
HARWOOD PARK

IVY TERRACE WATER & SEWER MAINS EXTENSIONS
CAPITAL PROJECT NO. S-6695

CONTRACT NO. 10-3471
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

as shown

3 of 5



95018

BY NO.

REVISION

600' SCALE MAP NO.\_38\_

BLOCK NO. 3

4 of 5

## HOWARD SOIL CONSERVATION DISTRICT 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:

1) Preferred — Apply 2 tons per acres dolomitic limestone (92 lbs/1000 sq.ft.)
and 600 lbs. per acre 10-10-10 fertilizer (14 lbs/1000 sq.ft.) before seeding.
Harrow or disk into upper three inches of soil. At time of seeding, apply

400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.).

2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disk into upper three inches of soil.

Seeding — For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre 1.4 lbs/1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lobs. per acre (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) — 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) — Use sod. Option (3) — Seed with 60 lbs./acre Kentucky 31 Tall Fescue and mulch with 2 tone/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 redisturbed 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, for not previously loosened.

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

Seeding: For periods March 1 thru April 30 and from August 15 thru October 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs./1000 sq.ft.) For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq.ft.). For the period November 16 thru November 28, protect site by applying 2 tons per 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 per 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 gal per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal per acre (8 gal/1000 sq.ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

#### 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 nay construction, (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 redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar 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. 1, 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 1991 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.

7) Site Analysis:

Total Area of Site: ACRES Area Disturbed: ACRES Area to be roofed or paved ACRES 0.16 Area to be vegetatively stabilized ACRES\_ 0.14 YARDS<sup>3</sup> Total Cut 4,369 Total fill YARDS<sup>3</sup> 5,666 Total waste/borrow area location

- 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.
- 11) Trenches for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter.

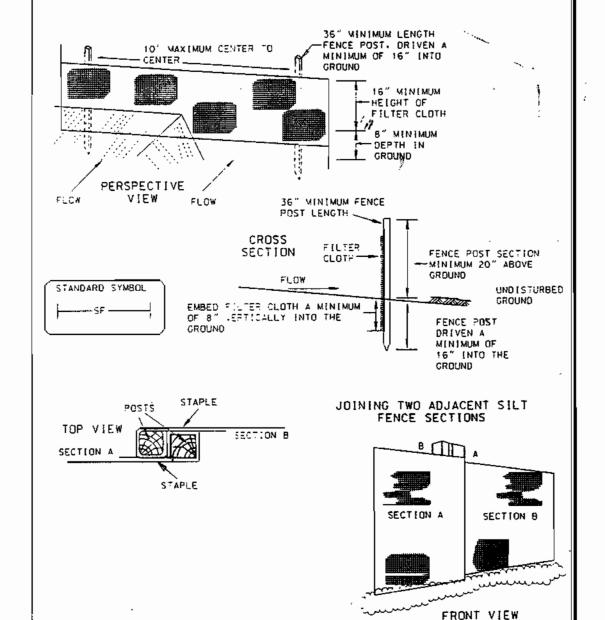
#### **EROSION AND SEDIMENT CONTROL NOTES:**

- ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
- 3) ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE SEWER MAIN TRENCH.
- 4) IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER MAIN TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
- 5) THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
- 6) ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

#### SEQUENCE OF OPERATIONS:

- 1) CONTACT HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION 48 HOURS PRIOR TO COMMENCING WORK AT 792-7272.
- 2) OBTAIN THE REQUIRED GRADING PERMIT.
- 3) CLEAR AND GRUB AS NECESSARY; ONLY AS REQUIRED FOR EXCAVATION AND INSTALLATION OF THE WATER AND SEWER MAINS. ONLY WITHIN THE DESIGNATED WATER, SEWER & UTILITY EASEMENTS OR WITHIN THE LIMIT OF DISTURBANCE.
- 4) INSTALL SEDIMENT CONTROL DEVICE PERPENDICULAR TO THE CURB ON THE DOWN-SLOPE SIDE OF CONSTRUCTION.
- 5) SAW CUT AND EXCAVATE DITCH TO THE GRADE SPECIFIED ON THE PROFILE.
- INSTALL SEWER AND WATER LINES.
- 7) STABILIZE, SEED & MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES SHOWN ON THIS SHEET.
- B) INSPECT ALL SEDIMENT CONTROL DEVICES DAILY AND AFTER EACH RAINFALL, REPAIR AS NECESSARY.
- BACKFILL TRENCH AND RESURFACE WITH TEMPORARY BITUMINOUS PAVING.
- 10) CLEAN UP CONSTRUCTION SITE.
- 11) WHEN ALL CONTRIBUTING AREAS TO SEDIMENT CONTROL DEVICE HAVE BEEN PERMANENTLY STABILIZED, AND AFTER PERMISSION HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL EROSION & SEDIMENT CONTROL DEVICES.
- 12) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A.) 7 CALENDAR DAYS FOR ALL PERIMETER SLOPES GREATER THAN 3:1
  - B.) 14 CALENDAR DAYS FOR ALL OTHER DISTURBED GRADED AREAS ON THE PROJECT SITE

DETAIL 22 - SILT FENCE



SILT FENCE

#### Construction Specifications

- A detail of the silt fence shall be shown on the plan- and contain the following minimum requirements:
- contain the following minimum requirements:

  a. The type, size, and spacing of fence posts.

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

- the type of filter cloth used.
   The method of fastening the filter cloth to the fencing
- d. Accumulated sediment must be removed when it reaches 50% of the height of the fabric.
- Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- 3. Design computations are not required.
- 4. All sift fences shall be placed as close to the contour as
- possible.
- 5. The area below the fence must be undisturbed or stabilized.

  6. Silt Fence Fabric: The fabric shall meet the Filter fabric
- 6. Silt Fence Fabric: The fabric shall meet the Filter fabric specifications listed in Table 27.7. Fence Posts (for fabricated units): The length shall be a
- 7. Fence Posts (for fabricated units): The length shall be a minimum of 36 inches long. Wood posts, 2"x 2", with a minimum cross sectional area of 3.0 square inches will be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1.00 pound per linear foot.

### Silt Fence Design Criterio

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	bet imi tou
50:1 to 10:1	125 feet	1.000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control

U.S. DEPARTMENT OF AGRICULTU SOIL CONSERVATION SERVICE PAG E - 15

WATER MANAGEMENT ADMINISTRATION

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION



DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

10/20/95
ECTOR OF PUBLIC WORKS (ACAIS) DATE

10/19/95

10/19/95

10/19/95

10/19/95

MILDENBERG,
BOENDER & ASSOC., INC.

Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042

(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



	engineering				
	MAT				
<b>_</b>	illustration <b>MAT</b>				
	approval <b>JBM</b>				
	project				
	95018				
	<sup>date</sup> 7/95	BY	NO.	REVISIÓN	

TITLE,

INDEX OF DRAWINGS,

GERENAL NOTES

TE: 600' SCALE MAP NO. 38 BLOCK NO. 3

HARWOOD PARK

IVY TERRACE WATER & SEWER MAINS EXTENSIONS

CAPITAL PROJECT NO. S-6695

CONTRACT NO. 10-3471

CONTRACT NO. 10-3471 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND AS SHOWN 5 OF 5

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