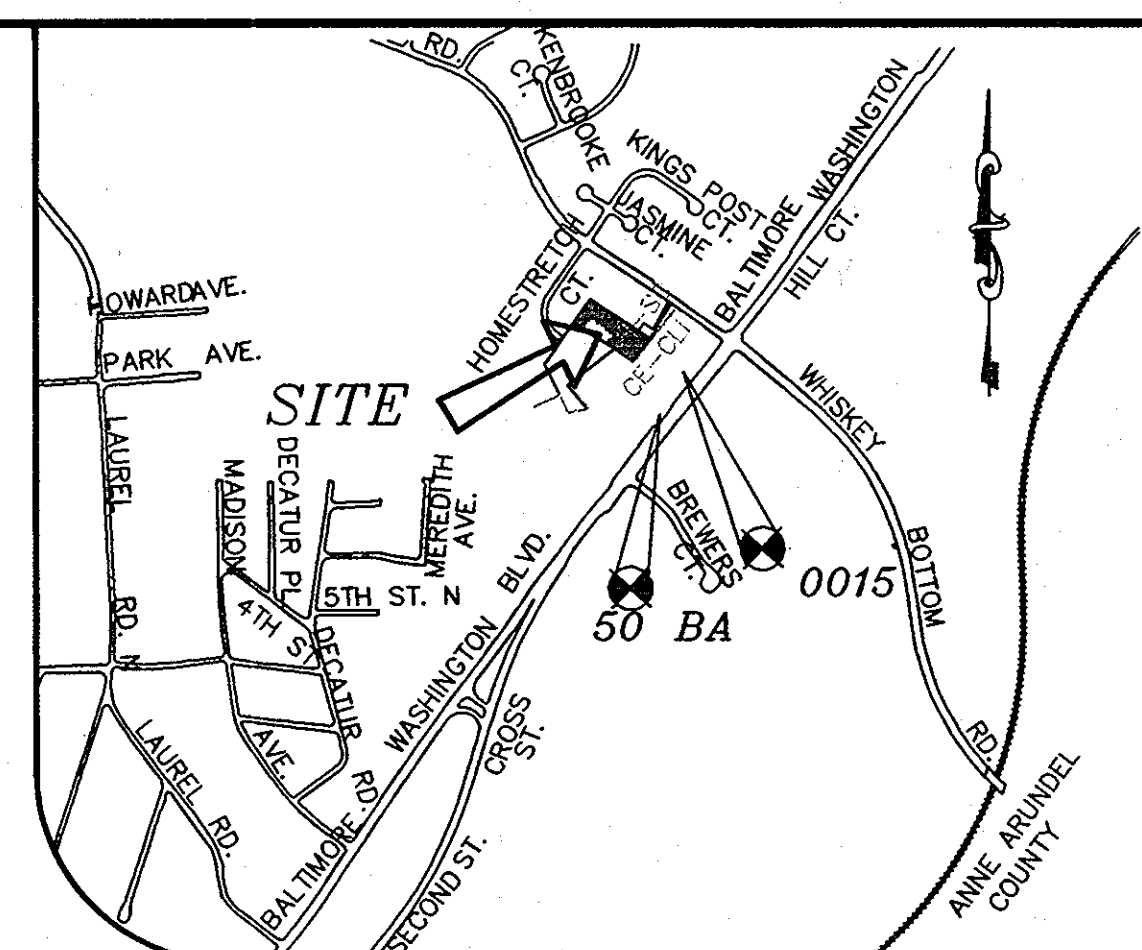
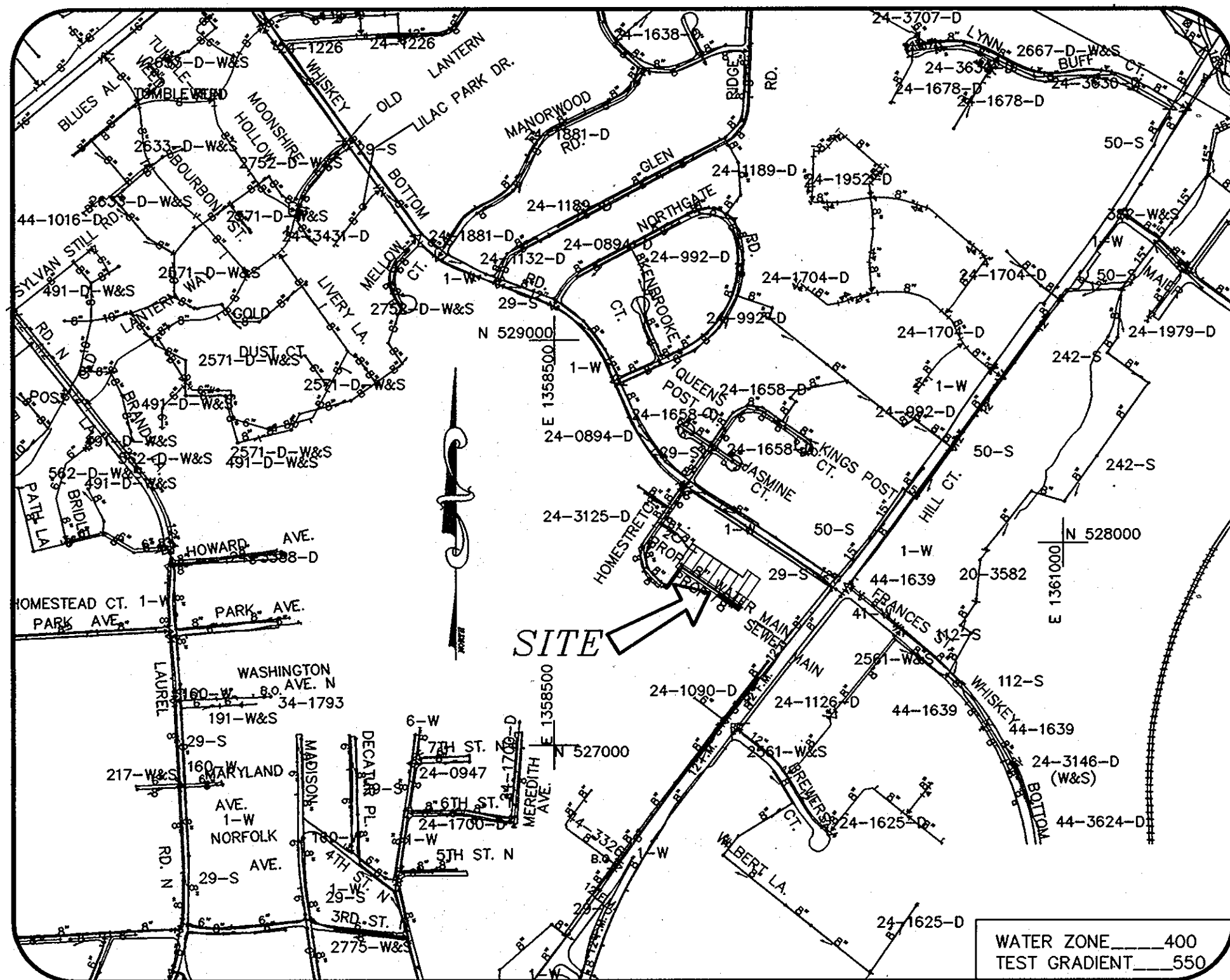


QUANTITY TABLE				
ITEMS	QUANTITIES		TYPE	MANUFACTURER/SUPPLIER
	ESTIMATED	QUANTITIES		
8" WATER MAIN	300 L.F.	300 LF	DIP	US PIPE / GREEN / HD SUPPLY
6" WATER MAIN	192 L.F.	192 LF	DIP	US PIPE / GREEN / HD SUPPLY
1" WATER HOUSE CONNECTION	155 L.F.	155 LF	TIPE-K COPPER	CAMBRIDGE LEE / HD SUPPLY
# 1" WATER HOUSE CONNECTIONS	7 EACH	7	GAUVAITE	LEGEND / HD SUPPLY
6" CAP & BUTTRESS	1 EACH	1	OCAP	STAR PIPE / HD SUPPLY
8" x 6" FHT & 6" VALVE	1 EACH	1		STAR PIPE / HD SUPPLY
6" FIRE HYDRANT	1 EACH	1	GATE	KEENEY / HD SUPPLY
8" VALVE	1 EACH	0		
8"x6" REDUCER	1 EACH	1	D1 REDUCER	STAR PIPE / HD SUPPLY
8" SEWER MAIN	520 L.F.	518 LF	SDR 35	NORTH AMERICAN / HD SUPPLY
4" SEWER HOUSE CONNECTION	70 L.F.	70 LF	SDR 35	NORTH AMERICAN / HD SUPPLY
# 4" SEWER HOUSE CONNECTIONS	8 EACH	7		FORD METER / HD SUPPLY
# 4" STANDARD PRECAST MANHOLES G-5.12	3 EACH	3		ATLANTIC CONCRETE
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE				



VICINITY MAP
SCALE: 1" = 200'
ADC MAP: A-12

GENERAL NOTES

- APPROXIMATE LOCATIONS 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.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON SEPTEMBER 2003 BY MILDENBERG, BOENDER & ASSOCIATES INC.
- THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS
 STA. No. 50BA N 527,561.667 ELEV. 248.655
 STA. No. 0015 N 527,772.600 E 1,259,772.600 ELEV. 239.581
 N 527,889.354 E 1,360,017.060
- ALL VERTICAL CONTROLS ARE BASED ON NAVD88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE IRON PIPE. MILDENBERG, BOENDER & ASSOC. INC. SHALL PROVIDE A DESCRIPTION OF VERTICAL CONTROL POINTS; I.E., IRON BARS, CROSS CUTS ON CONCRETE STRUCTURES, ETC).
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 MONIES OWED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, 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.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS ARE 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.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 AT&T 1-800-252-1133
 BGE (CONSTRUCTION SERVICES) 410-650-4620
 BGE (EMERGENCY) 410-685-1400
 BUREAU OF UTILITIES 410-313-4900
 COLONIAL PIPELINE COMPANY 410-795-1390
 MISS UTILITY 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION 410-531-5533
 VERIZON 1-800-743-0033/410-224-9210
- 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.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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.
- NOTE* CONTRACTOR TO VERIFY ALL LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES.

WATER / SEWER MAIN TABULATION CHART		
APPURTENANCE	NORTHING	EASTING
MH 1	572,978.30	1,359,284.12
MH 2	578,083.99	1,359,357.37
MH 3	527,882.65	1,359,648.85
FH 1	527,973.37	1,359,481.01
FHT&V	572,980.49	1,359,483.13
8" VALVE	572,972.45	1,359,270.21
6" x 8"	572,868.80	1,359,547.79
1/8 H.B.	527,964.36	1,359,281.70
1/8 H.B.	527,965.49	1,359,287.32
1/8 H.B.	528,065.25	1,359,356.54
1/8 H.B.	528,066.49	1,359,361.60
8"x6" REDUCER	527,977.85	1,359,490.13

INDEX OF DRAWINGS

NO.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PROFILE
4	GRADING PLAN, SEDIMENT CONTROL DETAILS AND NOTES

EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PART OF THIS SET (GP-09-95)

LOCATION MAP

SCALE 1"=600'
ADC MAP: A-12
200 SCALE MAP: 87

TYPE OF BUILDING	SFD
No. OF UNITS	7
No. OF WATER HOUSE CONNECTION	7
No. OF SEWER HOUSE CONNECTIONS	7
SEWER SHED	LITTLE PATUXENT WRP

**CONTRACT NO.: 24-4584-D
WATSON DEVELOPMENT
LOTS 25-31
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS**

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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

J. Phil 8.11.09
DEVELOPER'S SIGNATURE DATE
JENMAR HOMES
DEVELOPER'S NAME

I HEREBY CERTIFY 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.

R. Jacob Hikmat 8/11/09
ENGINEER'S SIGNATURE DATE
R. JACOB HIKMAT
ENGINEER'S NAME

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

John R. Robertson 9/2/09
HOWARD SCD DATE

WATER MAIN

- ALL WATER MAINS TO BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

SEWER MAIN

- 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 WATER TIGHT FRAME AND COVERS, STANDARD DETAIL GS.52 WHERE WATER TIGHT FRAME AND COVER IS USED, SET TOP OF FRAME 1' - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATE THAT THE CELLAR CANNOT BE SERVED.

DEVELOPER/OWNER

JENMAR HOMES
3403 OLD POST DRIVE
BALTIMOR, MD. 21208

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John C. Oum 8/10/09
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John D. ... 9/10/09
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0286 Ball. (301) 621-5521 Wash. (410) 997-0286 Fax.



engineering	MMT				
illustration	MMT				
approval	R.H.				
project	05-049	KCC	AS-BUILT		9/2/09
date	AUG 2009	BY	NO.	REVISION	DATE

TITLE SHEET

600' SCALE MAP NO. 50 BLOCK NO. 4

**WATSON DEVELOPMENT
LOTS 25-31**
CONTRACT NO.: 24-4584-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale AS SHOWN
1 OF 4

- LEGEND**
- 8" S EXISTING SEWER MAIN AND MANHOLE
 - 8" W EXISTING WATER MAIN AND VALVE
 - EXISTING FIRE HYDRANT
 - PROPOSED SEWER MAIN
 - PROPOSED WATER MAIN, TAPPING SLEEVE AND VALVE
 - PROPOSED FIRE HYDRANT
 - PROPOSED 1/8 BEND
 - PROPOSED WATER AND SEWER EASEMENT
 - PROPOSED SEWER HOUSE CONNECTION
 - PROPOSED WATER HOUSE CONNECTION
 - PROPOSED TWIN SEWER HOUSE CONNECTION
 - PROPOSED SEWER MANHOLE
 - PROPOSED TWIN WATER HOUSE CONNECTION
 - PROPOSED END CAP AND BUTTRISS
 - TRAVERSE
 - EX. SANITARY MH

SEWER HOUSE CONNECTION TABLE

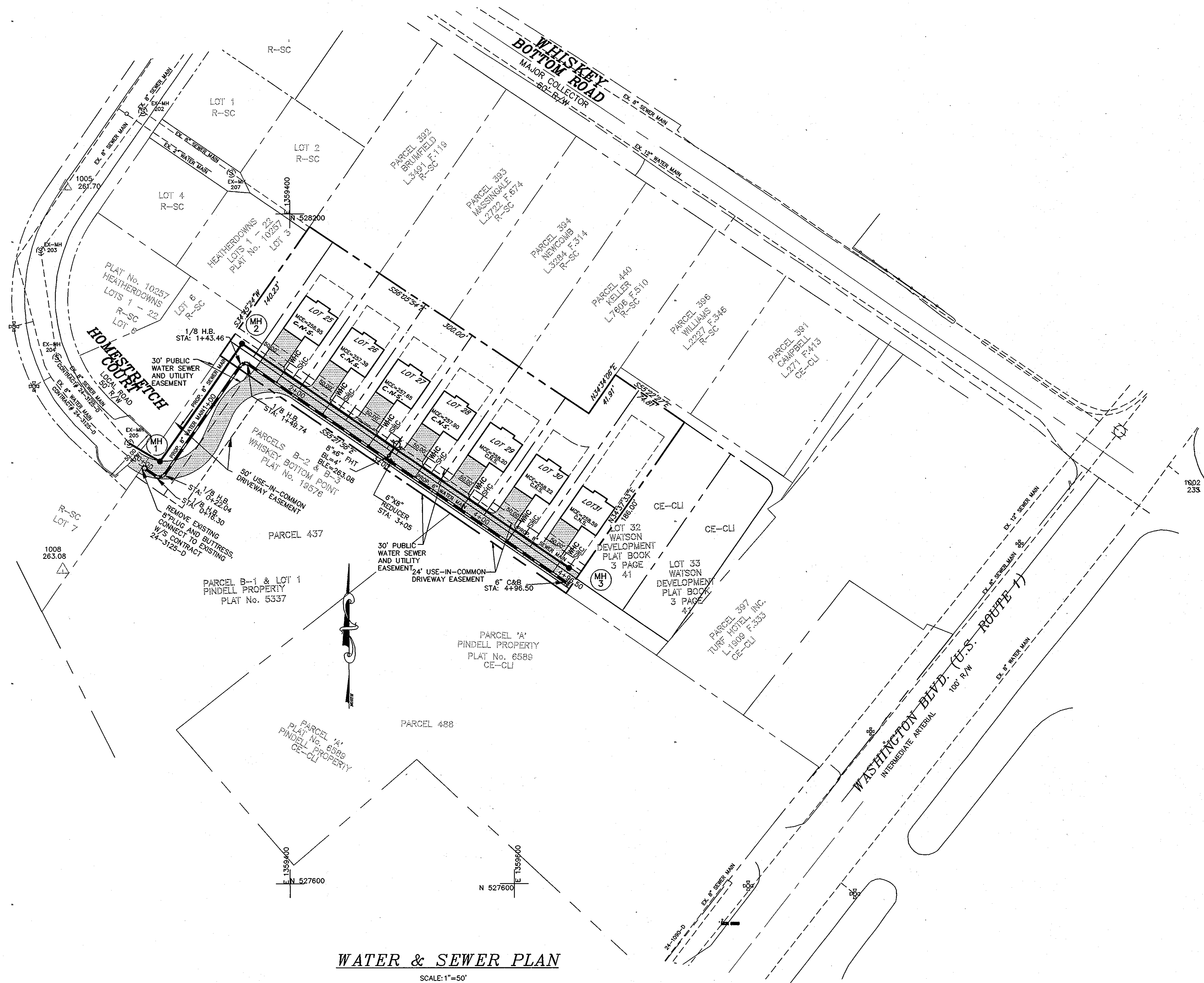
LOT	SHC TYPE	INV. @ EASEMENT	MCE	SLOPE
25	SHC	254.00	257.00	1%
26	SHC	254.24	257.39	1%
27	SHC	254.50	257.65	1%
28	CNS	254.75	257.90	1%
29	CNS	255.01	257.20	1%
30	CNS	255.07	258.22	1%
31	CNS	255.44	258.59	1%

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
25	HOMESTRECH CT.	SHC TO MH-2 45.6'	SHC TO FH 109.1'
26	HOMESTRECH CT.	SHC TO MH-2 95'	SHC TO FH 69.4'
27	HOMESTRECH CT.	SHC TO MH-2 145'	SHC TO FH 20.1'
28	HOMESTRECH CT.	SHC TO MH-2 141.3'	SHC TO FH 20.7'
29	HOMESTRECH CT.	SHC TO MH-2 110.2'	SHC TO FH 20.6'
30	HOMESTRECH CT.	SHC TO MH-3 60.4'	SHC TO FH 131.0'
31	HOMESTRECH CT.	SHC TO MH-3 15.8'	SHC TO FH 179.0'

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
25	HOMESTRECH CT.	SHC TO MH-2 56'	SHC TO FH 101'
26	HOMESTRECH CT.	SHC TO MH-2 105'	SHC TO FH 60'
27	HOMESTRECH CT.	SHC TO MH-2 155'	SHC TO FH 11'
28	HOMESTRECH CT.	SHC TO MH-2 205'	SHC TO FH 40.5'
29	HOMESTRECH CT.	SHC TO MH-2 100'	SHC TO FH 91'
30	HOMESTRECH CT.	SHC TO MH-3 51'	SHC TO FH 141'
31	HOMESTRECH CT.	SHC TO MH-3 12'	SHC TO FH 189'
	HOMESTRECH CT.	FHV TO MH-2 14.7'	SHC TO FH 15.7'
	HOMESTRECH CT.	FHV TO MH-3 140.5'	



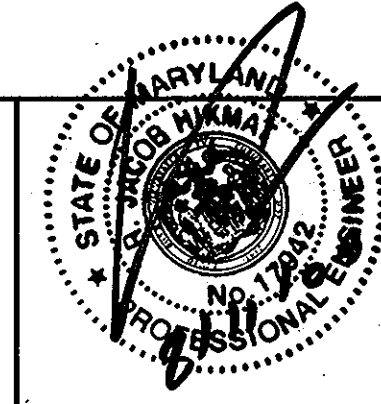
WATER & SEWER PLAN
SCALE: 1"=50'

DEVELOPER/OWNER
JENMAR HOMES
3403 OLD POST DRIVE
BALTIMOR, MD. 21208

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION

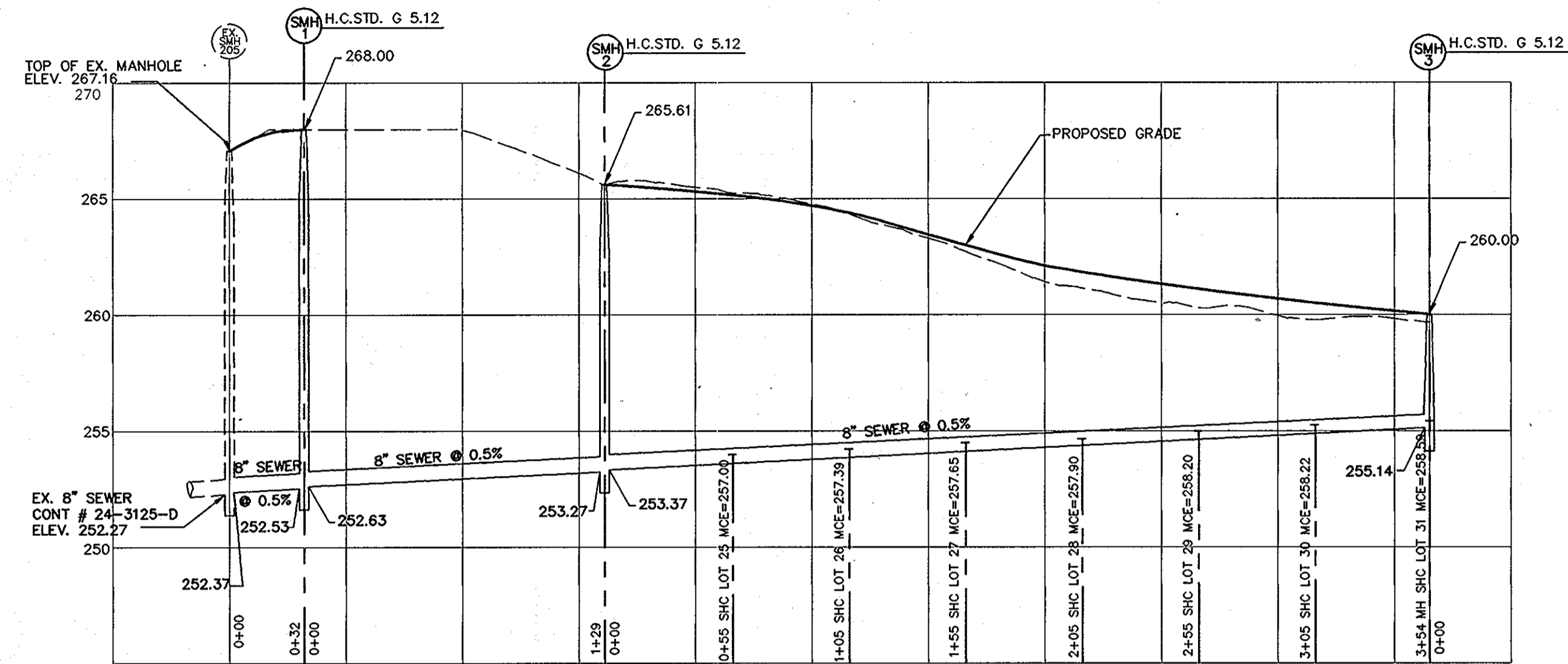
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dersey Hill Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0286 Balt. (301) 621-5521 Wash. (410) 997-0288 Fax.



engineering	MMT				
illustration	MMT				
approval	RJH				
project	05-049	KCI	AS-BUILT		9/2012
date	AUG 2009	BY	NO.	REVISION	DATE

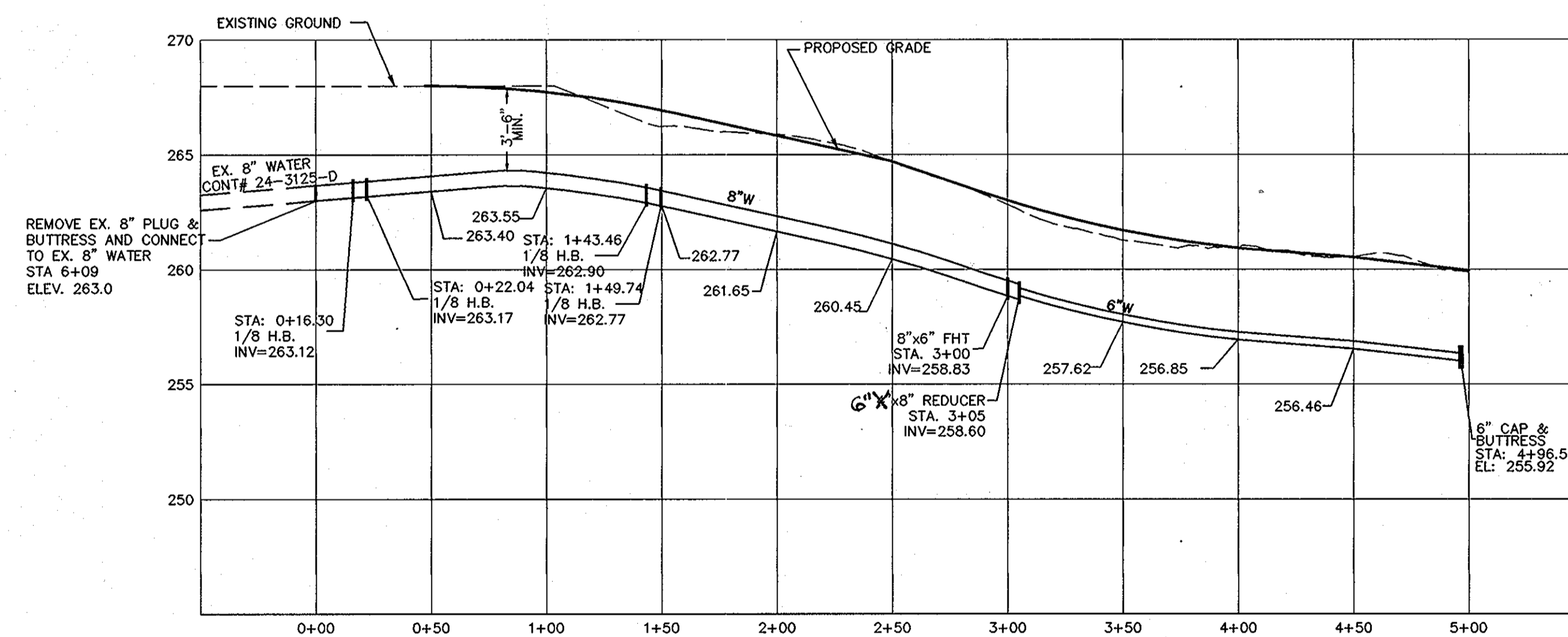
WATER AND SEWER PLAN
600' SCALE MAP NO. 50 BLOCK NO. 4

WATSON DEVELOPMENT
LOTS 25-31
CONTRACT NO.: 24-4584-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



SEWER PROFILE FROM EX. SMH 205 TO SMH 3

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'



WATER MAIN PROFILE

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'

WATER PROFILE

SCALE: 1"=50'

DEVELOPER/OWNER

JENMAR HOMES
3403 OLD POST DRIVE
BALTIMOR, MD. 21208

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

**MILDENBERG,
BOENDER & ASSOC., INC.**
Engineers Planners Surveyors

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engineering	MMT				
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approval	RJH				
project	05-049	KCF	AS-BUILT		9/2009
date	AUG. 2009	BY	NO.	REVISION	DATE

WATER AND SEWER
PLAN

600' SCALE MAP NO. 50 BLOCK NO. 4

WATSON DEVELOPMENT
LOTS 25-31
CONTRACT NO.: 24-4584-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale
AS SHOWN

3 OF 4

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.

SEEDING 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) PREPERIODIC HARROW 2 TONS PER ACRE... 2) HARROW OR DISK INTO UPPER THREE INCHES OF SOIL...

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAM STRAW IMMEDIATELY AFTER SEEDING...

TEMPORARY SEEDING NOTES
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING 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. 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...

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED WEED FREE SMALL GRAM STRAW IMMEDIATELY AFTER SEEDING...

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... 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN...

STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITION: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW pH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES: THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:

- a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH. b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS...

CONSTRUCTION AND MATERIAL SPECIFICATIONS

1. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS.

2. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY.

3. TOPSOIL SHALL BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONSON GRASS, NUTGRASS, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

4. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

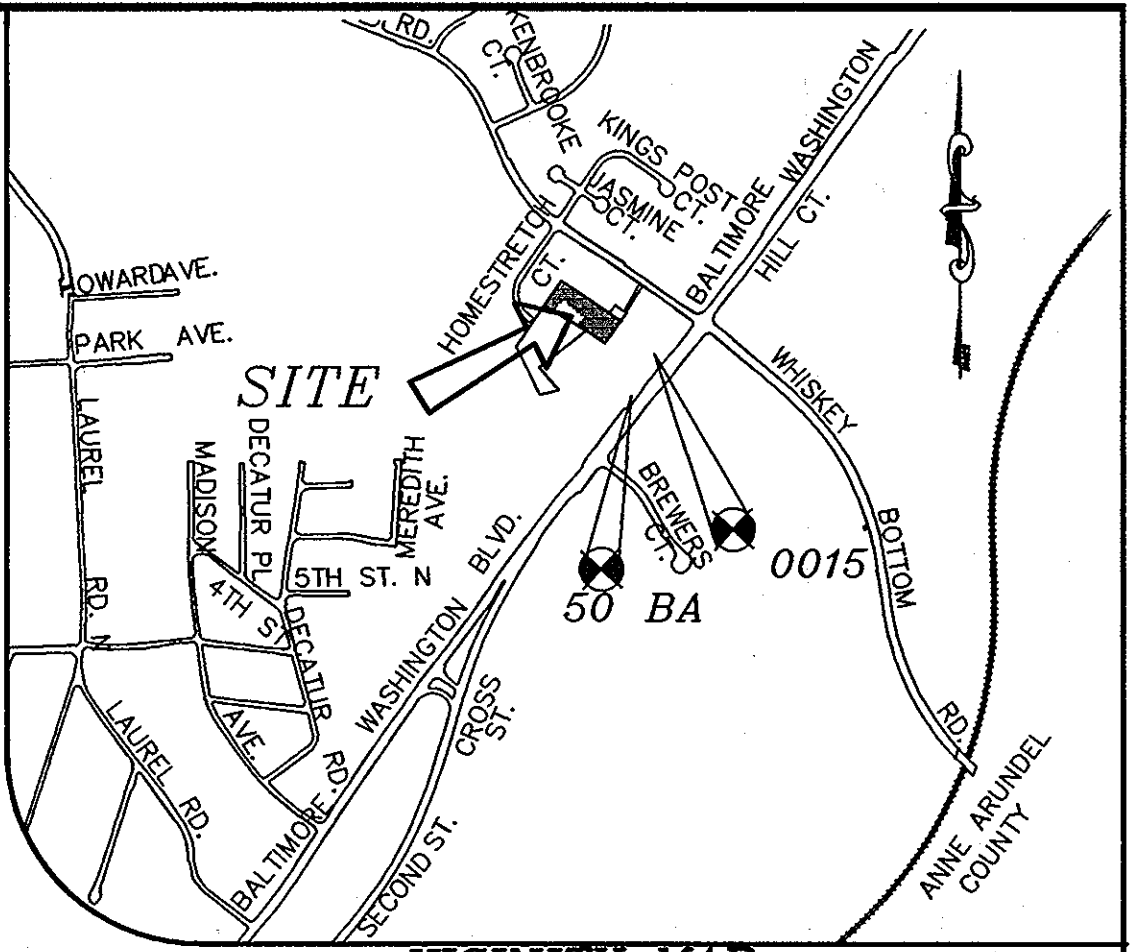
5. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES: PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN THE REQUIRED GRADING PERMIT. 2. INSTALL SILT FENCES AS INDICATED. (2 DAYS) 3. EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY...

EROSION AND SEDIMENT CONTROL NOTES

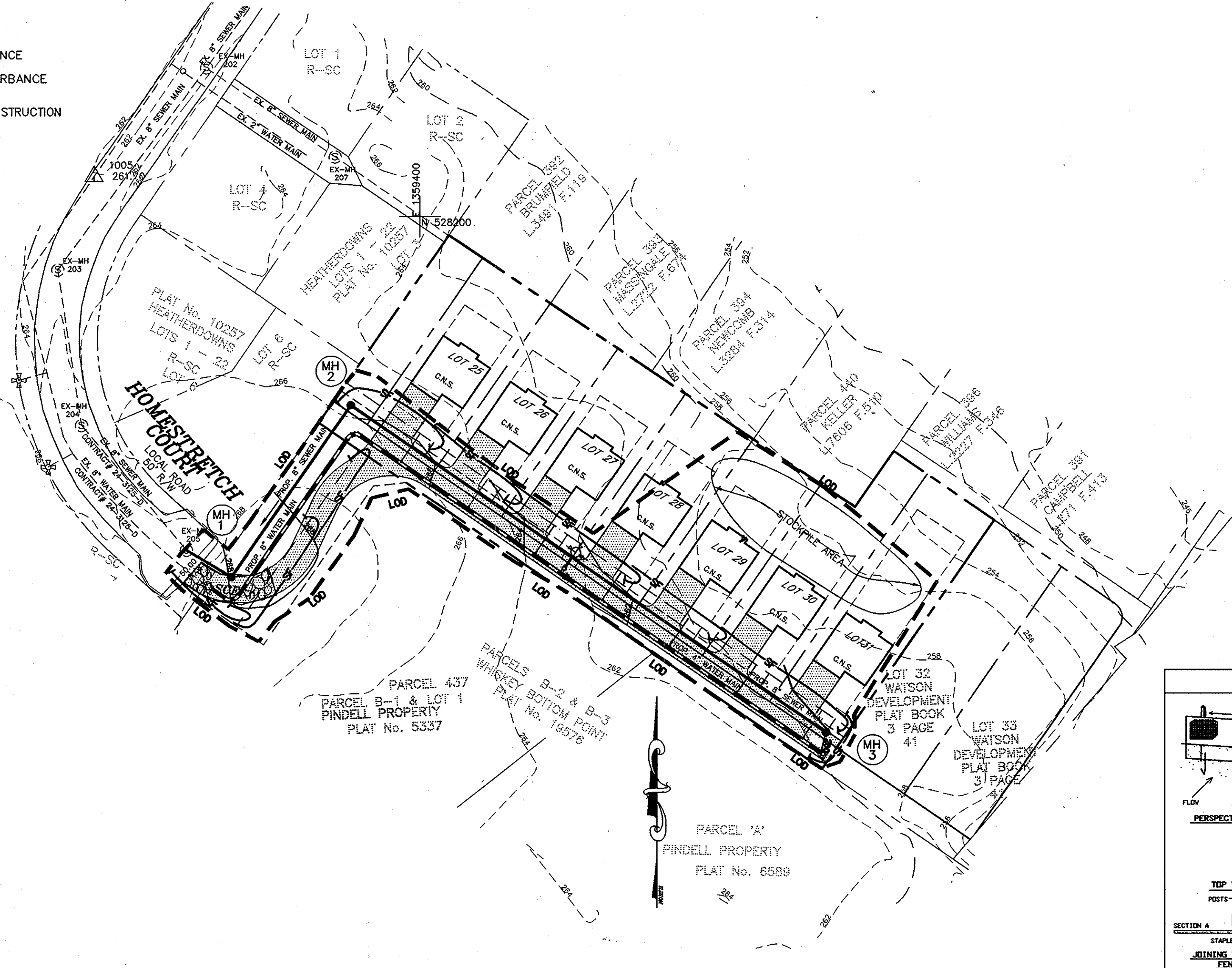
- 1. ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL... 2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS...



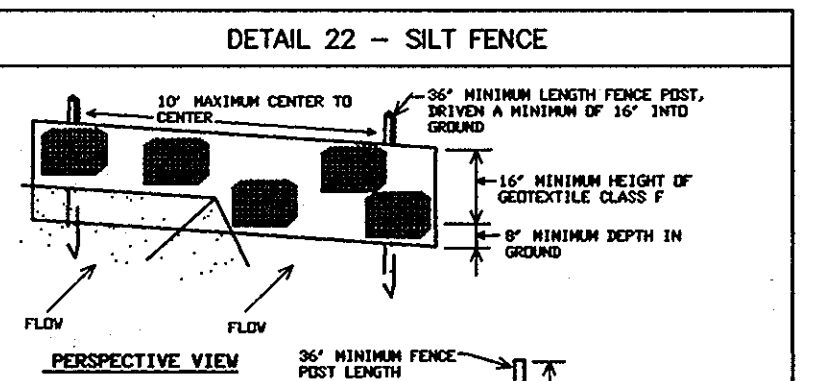
VICINITY MAP
SCALE: 1" = 2000'
ADC MAP: A-12

LEGEND

- SF - SILT FENCE
SSF - SUPER SILT FENCE
LOD - LIMIT OF DISTURBANCE
SCE - STABILIZED CONSTRUCTION ENTRANCE



THIS PLAN IS FOR GRADING PURPOSES ONLY



Construction Specifications
1. Fence posts shall be a minimum of 30' long driven 16" minimum into the ground...

Table with columns: Slope Steepness, (Minimum) Slope Length, (Maximum) Slope Length. Includes rows for 5:1 to 2:1 and 2:1 and steeper.

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 limited...

DEVELOPER/OWNER

JENMAR HOMES
3403 OLD POST DRIVE
BALTIMOR, MD. 21208

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...

DEVELOPER'S SIGNATURE: JENMAR HOMES
DATE: 8-11-09

I HEREBY CERTIFY 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 WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER'S SIGNATURE: R. JACOB HIKMAT
DATE: 8/11/09

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT.
DATE: 9/2/09

DEPARTMENT OF PUBLIC WORKS, DEPARTMENT OF PLANNING & ZONING, MILDENBERG, BOENDER & ASSOC., INC. Engineers Planners Surveyors.

Professional Engineer seal for R. Jacob Hikmat, No. 17345, State of Maryland.

engineering MMT, illustration MMT, approval RJH, project 05-049, date AUG 2009, BY NO., REVISION, DATE, 600' SCALE MAP NO., BLOCK NO.

GRADING PLAN, SEDIMENT CONTROL DETAILS AND NOTES, WATSON DEVELOPMENT LOTS 25-31, CONTRACT NO.: 24-4584-D, SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND, scale AS SHOWN, 4 OF 4, GP-09-95