

GENERAL NOTES

I. STANDARD GENERAL NOTES

- a. 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.
- b. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED AUGUST 2006 BY SILL, ADCOCK & ASSOCIATES, LLC.
- c. THE COORDINATES ON THE DRAWINGS ARE BASED ON THE MARYLAND STATE REFERENCE SYSTEM NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 1618 AND NO. 1748.
- d. ALL VERTICAL CONTROLS ARE BASED ON NAVD '83. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE CONCRETE MONUMENTS.
- e. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- f. 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.
- g. 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.
- h. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOLS AT THE LOCATIONS OF THE TEST PITS. 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.
- i. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON PLANS:
 - A T & T 1-800-252-1133
 - BGE (CONSTRUCTION SERVICES) 410-850-4620
 - BGE (EMERGENCY) 410-865-1400
 - 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 1-800-743-0031/800-224-9210
- j. 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.
- k. 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.
- l. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST 5 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.

II. STANDARD WATER MAIN GENERAL NOTES

- a. ALL WATER MAINS TO BE D.I.P. CLASS 64 UNLESS OTHERWISE NOTED.
- b. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- c. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- d. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- e. 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.
- f. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- g. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- h. FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 1/2" METER.

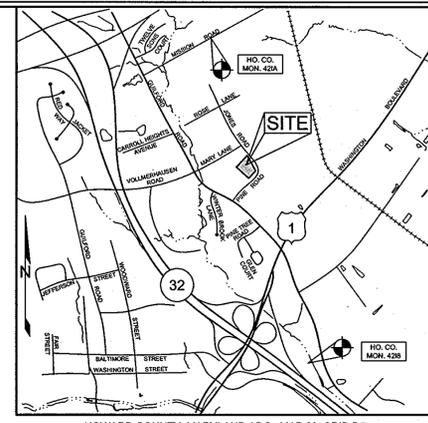
III. STANDARD SEWER MAIN GENERAL NOTES

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

PUBLIC WATER AND SEWER PLAN NORDAU SUBDIVISION

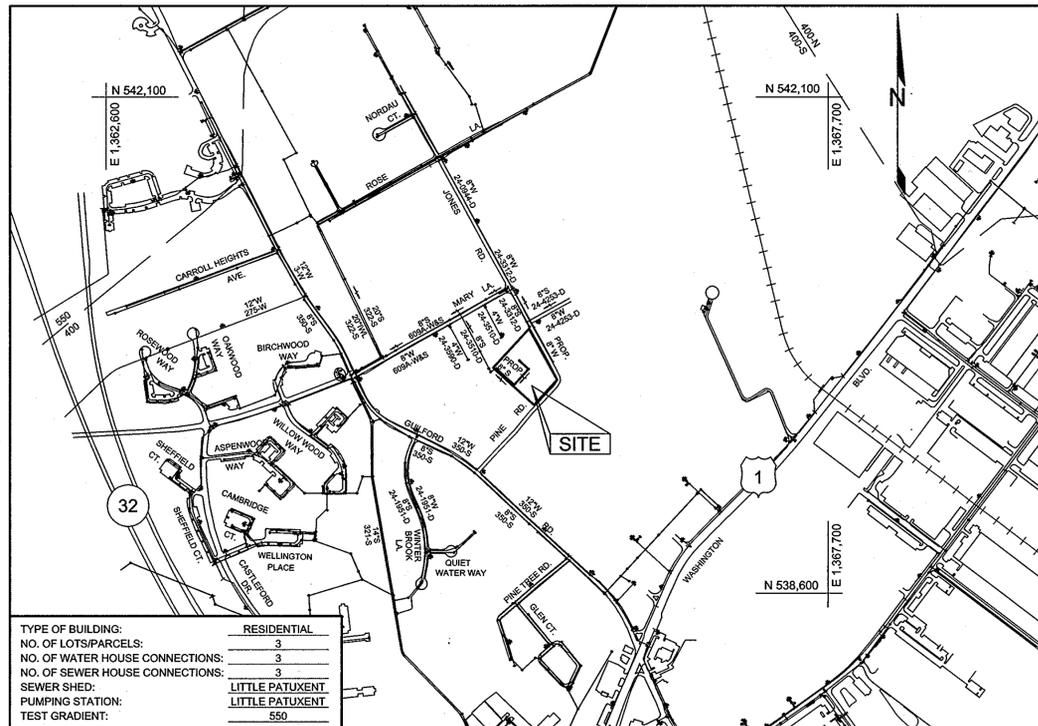
LOTS 10, 11 & 12 SECTION E-1
A RESUBDIVISION OF REVISED LOTS 3 & 4

HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-4526-D



HOWARD COUNTY, MARYLAND ADC MAP 20, GRID D5
VICINITY MAP
SCALE: 1"=2000'

BENCHMARKS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
421A	543,390.4135	1,364,912.6627	312.00'	74.3' NORTH OF B&E POLE
421B	542,107.8895	1,362,386.0376	301.46	283' WEST OF EXIT SIGN 72' NORTH OF EDGE OF MACADAM



TYPE OF BUILDING:	RESIDENTIAL
NO. OF LOTS/PARCELS:	3
NO. OF WATER HOUSE CONNECTIONS:	3
NO. OF SEWER HOUSE CONNECTIONS:	3
SEWER SHED:	LITTLE PATUXENT
PUMPING STATION:	LITTLE PATUXENT
TEST GRADIENT:	550

LOCATION PLAN
SCALE: 1"=600'

QUANTITIES				
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT:				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" D.I.P. (WATER)	279 LF			
8" PVC (SEWER)	482 LF			
3" CAP & BUTTRESS	1 EA			
SEWER MANHOLE	5 EA			
4" SHC	30 LF			
1" WHC	108 LF			

EXISTING UTILITY SCHEDULE		
ADDRESS	EXISTING WELL	EXISTING SEPTIC SYSTEM
8660 PINE ROAD, JESSUP, MD 20794	TO BE CONVERTED TO NON-POTABLE WATER SOURCE	TO BE ABANDONED

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PROFILES

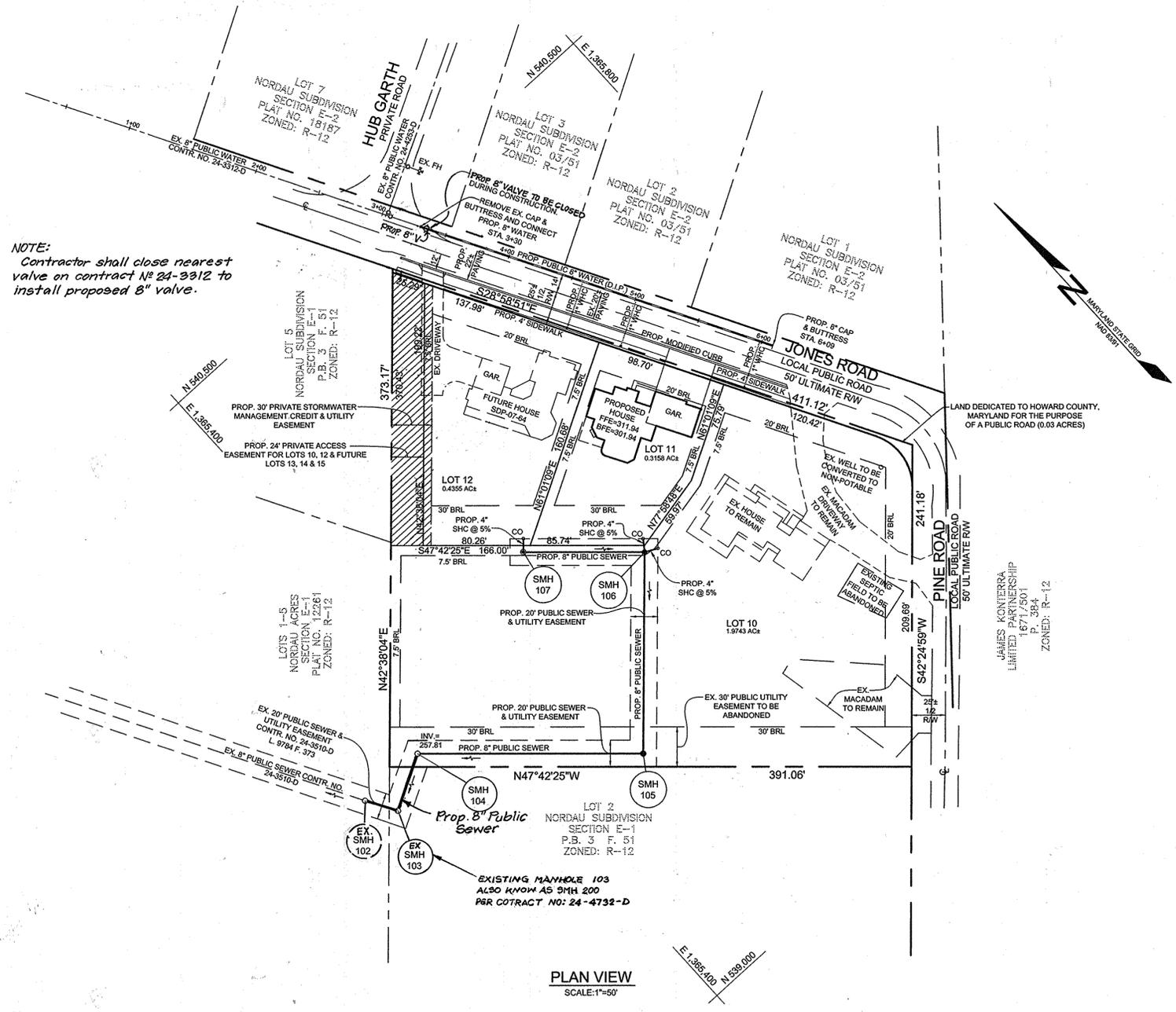
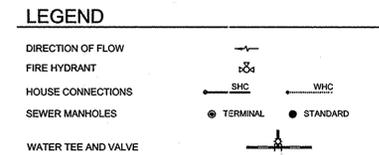
SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-08-70

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John Hunter 5/1/08
DISTRICT

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 06, 2009.

OWNER/DEVELOPER
FORSTER W. HARMON
MARGARET T. HARMON
8660 PINE ROAD
JESSUP, MARYLAND 20794
301.776.9412

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Steve C. Dean</i> 7/25/08 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>John Hunter</i> 5/1/08 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	Sill · Adcock & Associates · LLC Engineers · Surveyors · Planners 3300 North Ridge Road, Suite 160 Ellicott City, Maryland 21043 Phone: 443.325.7682 Fax: 443.325.7685 Email: info@saaland.com	DESIGNED BY: JT/MRM DRAWN BY: MRM CHECKED BY: PS DATE: JULY 7, 2009	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>Revise quantities</td> <td>4-26-10</td> </tr> </table>	NO.	DESCRIPTION	DATE	1	Revise quantities	4-26-10	<h2 style="margin: 0;">COVER SHEET</h2>	NORDAU SUBDIVISION LOTS 10, 11 & 12 SECTION E-1 A RESUBDIVISION OF LOTS 3 & 4 SECTION E-1 TAX MAP 47 GRID 6 PARCEL 49 6TH ELECTION DISTRICT ZONED: R-12 HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4526-D	SCALE: AS SHOWN SHEET NO. 1 OF 3
NO.	DESCRIPTION	DATE											
1	Revise quantities	4-26-10											



NOTE:
Contractor shall close nearest valve on contract No 24-3312 to install proposed 8" valve.

PLAN VIEW
SCALE: 1"=50'

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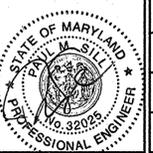
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Stah C. Gann
7/25/08
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

David Sill
8/2/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE M.G.

Sill · Adcock & Associates · LLC
Engineers · Surveyors · Planners
3300 North Ridge Road, Suite 160
Ellicott City, Maryland 21043
Phone: 443.325.7682 Fax: 443.325.7685
Email: info@saaland.com

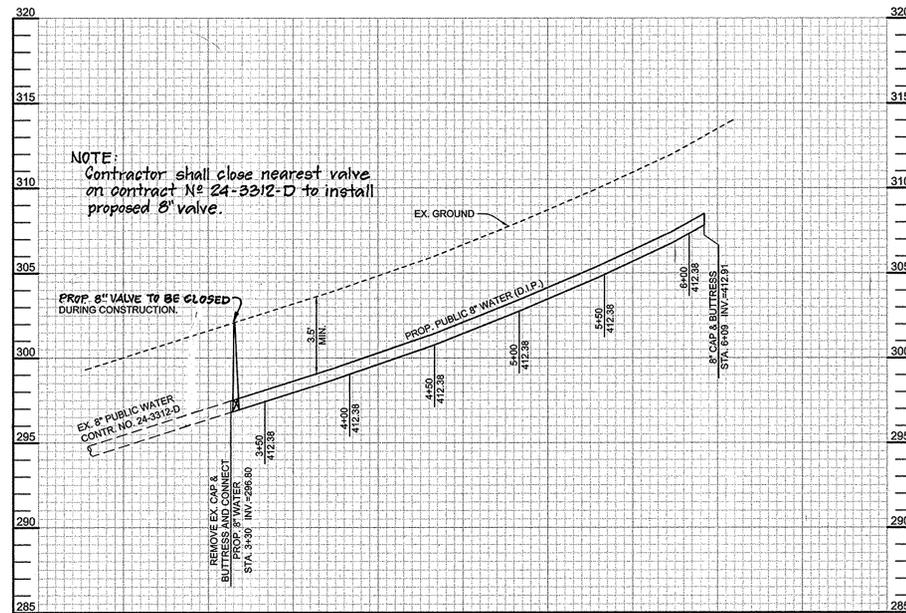


DESIGNED BY: JT/MRM		
DRAWN BY: MRM		
CHECKED BY: PS		
DATE: JULY 7, 2008		

NO.	DESCRIPTION	DATE
1	ADD NOTE TO SMH 103	7-24-15
2	ADD SMH 103 & 104, add 30LF 8" W.	4-26-10
3	Remove WHC & SHC for lot 12.	

NORDAU SUBDIVISION
LOTS 10, 11 & 12 SECTION E-1
A RESUBDIVISION OF LOTS 3 & 4 SECTION E-1
TAX MAP 47 GRID 6 PARCEL 49
6TH ELECTION DISTRICT ZONED: R-12 HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-4526-D

SCALE: AS SHOWN
SHEET NO. 2 OF 3

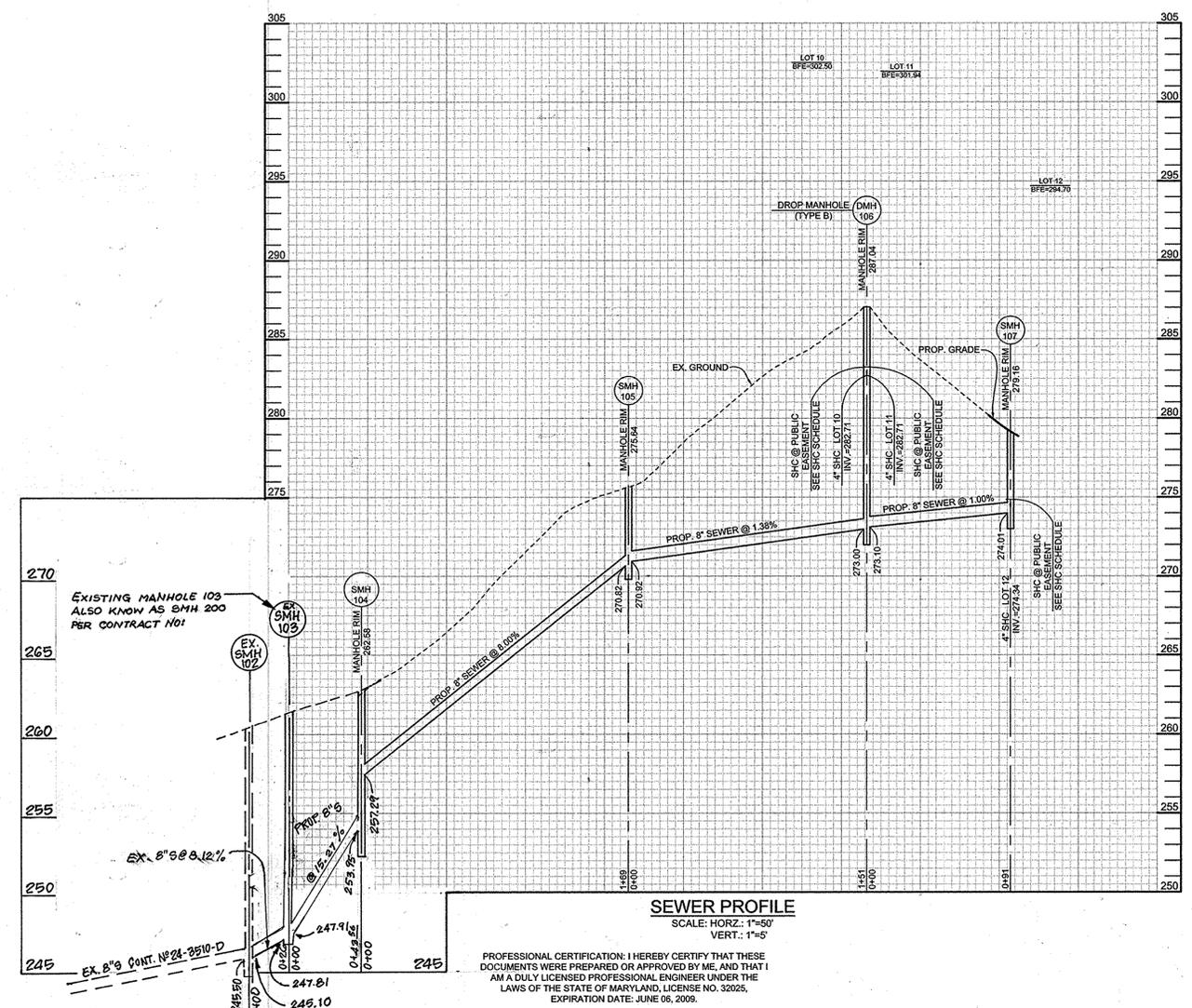


WATER PROFILE
SCALE: HORZ.: 1"=50'
VERT.: 1"=5'

SEWER HOUSE CONNECTION SCHEDULE			
LOT NO.	INVERT @ MAIN	INVERT @ PUBLIC ESMT.	MIN. CELLAR ELEV.
10	282.71	283.23	278.15
11	282.71	283.21	278.34
12	274.34	274.85	279.81

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	REMARKS
104	Ø10.4" PRECAST MANHOLE	N 540,185 E 1,365,356	262.58	257.29	253.33	S-1.32
105	STD. 4" PRECAST MANHOLE	N 540,071 E 1,365,481	275.64	270.92	270.82	S-1.32
106	STD. 4" PRECAST DROP MANHOLE	N 540,182 E 1,365,583	287.04	273.10	273.00	S-1.32
107	STD. 4" PRECAST MANHOLE	N 540,243 E 1,365,516	279.16	—	274.01	S-1.31
EX. 102	4" EXISTING MANHOLE (A.)					EX. MH
103	STD. 4" PRECAST MANHOLE	N 540,163 E 1,365,316	261.84	251.61	251.51	S-1.32

NOTES:
 1. TOP ELEVATIONS FOR PRECAST MANHOLES ARE TO THE CENTER TOP OF MANHOLE COVER.
 2. TOP SLOPE OF STRUCTURES TO CONFORM TO GRADE.
 3. LOCATION COORDINATES ARE CENTER OF STRUCTURE FOR MANHOLES.
 4. EXISTING SMH 102 TO BE CONVERTED TO A TYPE 'B' DROP MANHOLE, HOWARD COUNTY STANDARD DETAIL NO. S-2.12.



SEWER PROFILE
SCALE: HORZ.: 1"=50'
VERT.: 1"=5'

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DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 Date: 7/25/09

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 Date: M.G.

Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
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 Ellicott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@saadland.com



DESIGNED BY: JT/MRM
 DRAWN BY: MRM
 CHECKED BY: PS
 DATE: JULY 7, 2009

NO.	DESCRIPTION	DATE
1	REVISED INVERTS AND PIPE SLOPE FOR SMH 102, 103	4-26-10
2	ADD SMH 102 & 103, ADD 8" VALVE, REVISE structure schedule.	

WATER & SEWER PROFILES
 600' SCALE MAP NO. 47
 BLOCK NO. 6

NORDAU SUBDIVISION
 LOTS 10, 11 & 12 SECTION E-1
 A RESUBDIVISION OF LOTS 3 & 4 SECTION E-1
 TAX MAP 47 GRID 6
 6TH ELECTION DISTRICT
 ZONED: R-12
 HOWARD COUNTY, MARYLAND
 PARCEL 49
CONTRACT NO. 24-4526-D

SCALE: AS SHOWN
 SHEET NO. 3 OF 3