

CONTRACT No. 24-4121-D
HILLTOP ESTATES
SECTION II, LOTS 8-15

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

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 NAD 83/91.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THESE PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12". 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 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.
 - 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 \odot 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 (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION	410-531-5533
BGE CONTRACTOR SERVICES	410-850-4620
BGE UNDER GROUND DAMAGE CONTROL	410-787-9068
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE CO.	410-795-1390
A&T	410-252-1133
BUREAU OF UTILITIES	410-313-4900
VERIZON	1-800-743-0033/410-224-9210
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - 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 MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENT PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.

- PART II - WATER**
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" 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. 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.
 - ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
 - SPRINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER.

- PART III - SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. AND 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 COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

DRAWING LIST

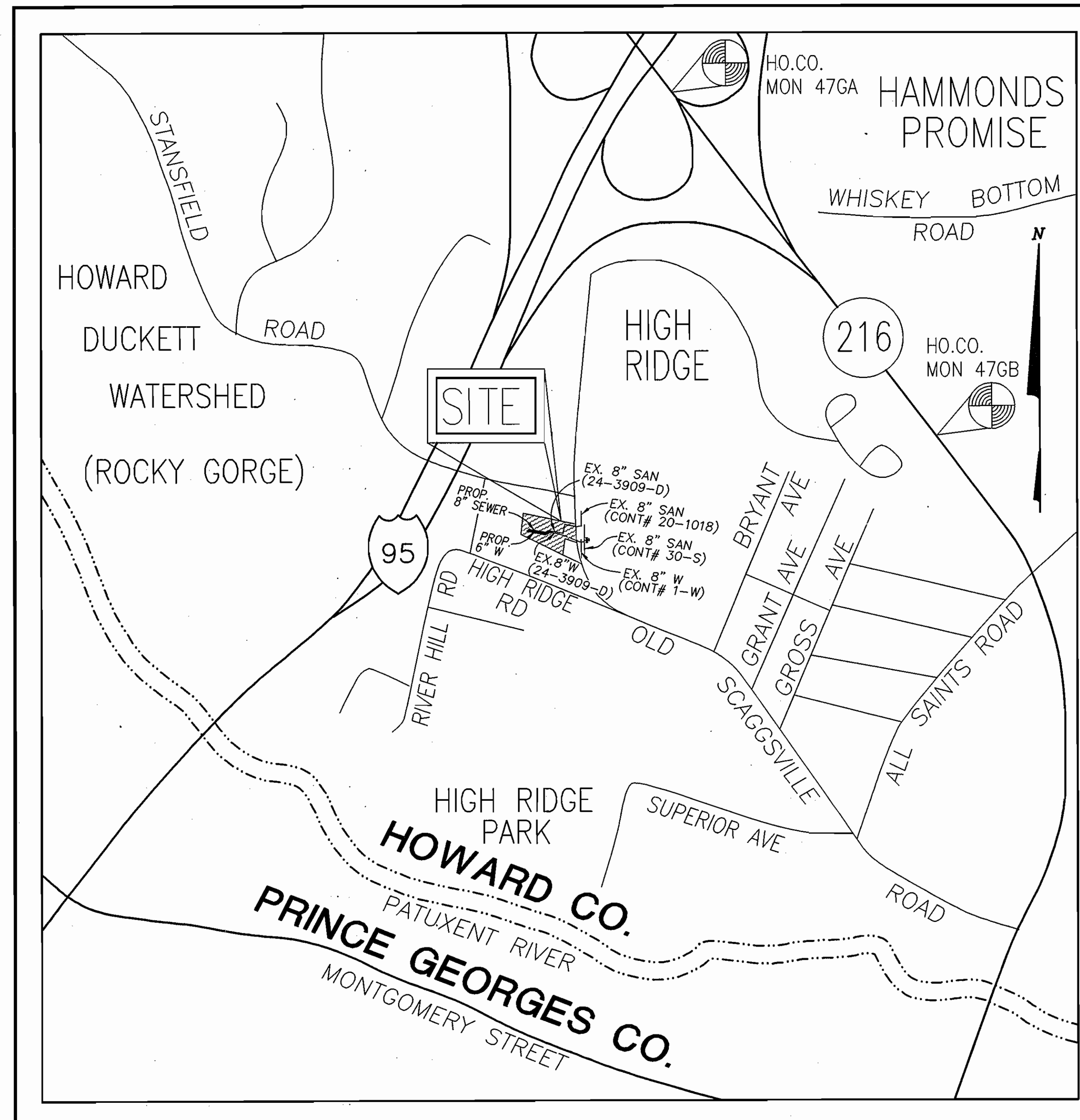
ITEMS	
1	COVER SHEET
2	WATER AND SEWER PLAN
3	WATER AND SEWER PROFILES

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
6" WATER D.I.P.	204 LF	204 LF	DIP, CL. 52	U.S. PIPE
8"x6" REDUCER	1 EA.	1 EA.	—	U.S. PIPE
6" CAP AND BUTTRESS	1 EA.	1 EA.	M.J.	U.S. PIPE
6" 1/16 BEND	4 EA.	1 EA.	M.J.	U.S. PIPE
6" 1/32 BEND	2 EA.	1 EA.	M.J.	U.S. PIPE
1" WHC	50 L.F.	60 L.F.	K-COPPER	CAMBRIDGE LEE
1 1/2" DRAIN	1 EA.	1 EA.	—	MUELLER CO.
6" 1/22 BEND	2 EA.	2 EA.	M.J.	U.S. PIPE
8" SAN. P.V.C.	182 L.F.	182 L.F.	PVC, SDR-35	J. M. MFG.
STD. SANITARY MANHOLE	1 EA.	1 EA.	—	CAPITOL FOUNDRY
TERMINAL SANITARY MANHOLE	1 EA.	1 EA.	—	—
4" SHC	150 L.F.	159 L.F.	PVC, SDR-35	J. M. MFG.
4" DHC	11 V.F.	11 V.F.	BXS PVC	GPK
TYPE "A" DROP CONNECTION	1 EACH	1 EA.	—	—

NAME OF UTILITY CONTRACTOR: JEFF WHEELER CONSTRUCTION, INC.

SURVEY AND DRAFTING DIV. CHECKBOX: AS-BUILT DATE: 9/06



WATER AND SEWER CODE FOR COUNTY USE ONLY

SEWER CODE 7172000
 WATER CODE C-06
 TEST GRADIENT .700

LOCATION PLAN
 SCALE: 1"=600'

TYPE OF BUILDING	SINGLE FAMILY
NUMBER OF LOTS	8
NUMBER OF S.H.C.'s	6
NUMBER OF W.H.C.'s	6
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LPWWTP

AS BUILT
 DATE: SEPT. 2006

BENCHMARKS

NO.	DESCRIPTION
47GA	NORTHING: 532404.175 EASTING: 1351627.338 ELEVATION: 350.405
47GB	NORTHING: 529917.204 EASTING: 1353526.738 ELEVATION: 259.195

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

Jim Meyer 10-22-03
 SIGNATURE DATE

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT (CORRESPONDING FINAL PLAN F-03-143)

APPROVED: *John R. ...* 10-22-03
 HOWARD S.O.D. DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

John R. ... 10-10-03
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

William ... 10/10/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS, SURVEYORS
 32 WEST ROAD
 TOWSON, MARYLAND 21204
 (410) 823-8070



DES:	BY	NO	REVISION	DATE
DRN:				
CHK:				
DATE:				

COVER SHEET

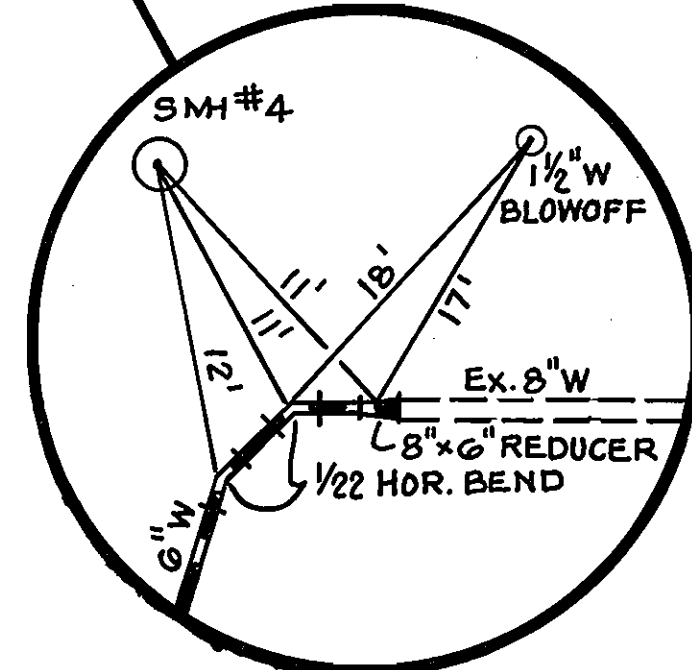
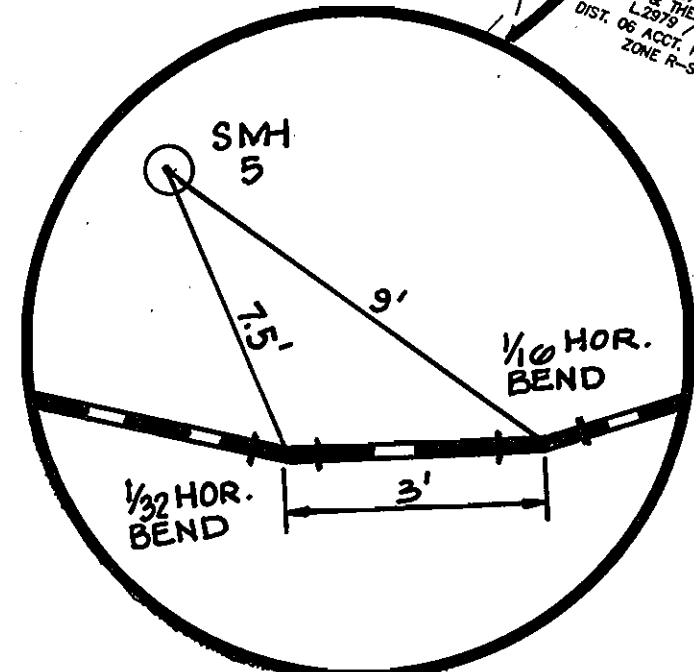
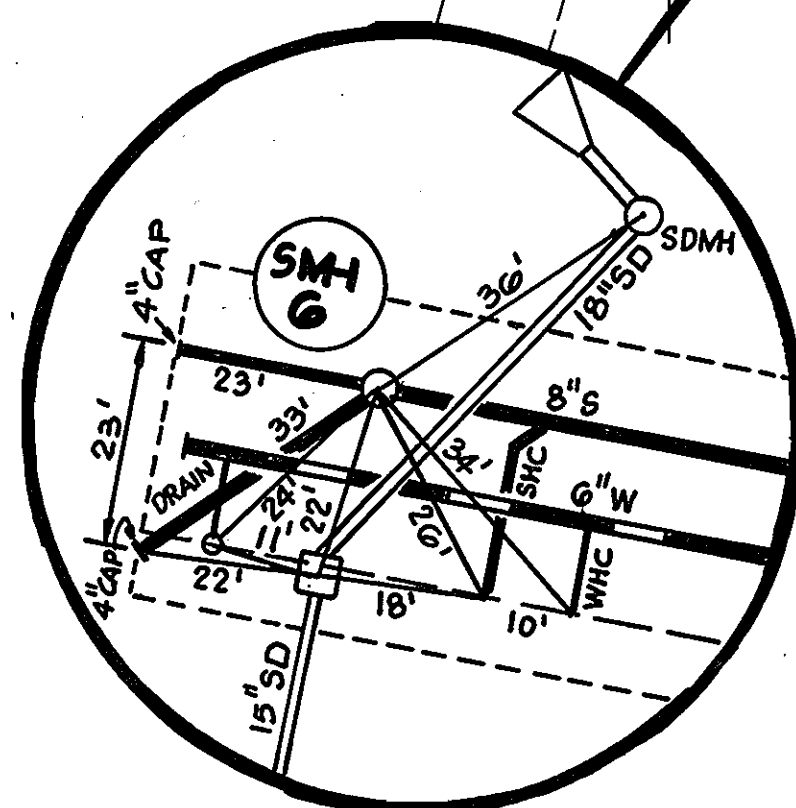
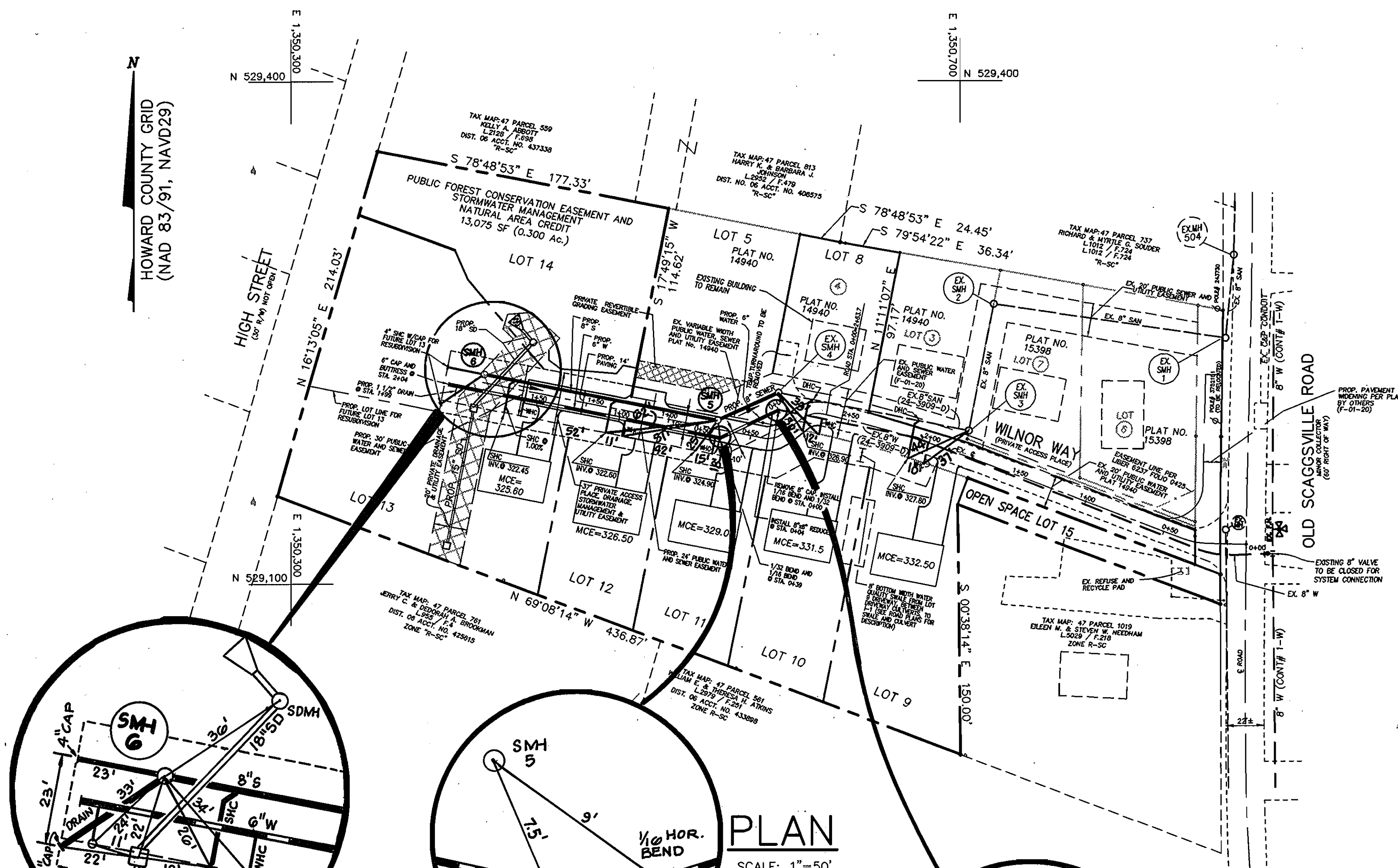
600' SCALE MAP NO. 47 BLOCK NO. 19

HILLTOP ESTATES
WATER AND SEWER
SECTION II
 (LOTS 8-15)

TAX MAP NO. 47 P/O PARCEL 780 AND 1018, GRID 19
 ELECTION DISTRICT No. 6 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-4121-D

SCALE AS SHOWN

SHEET 1 OF 3



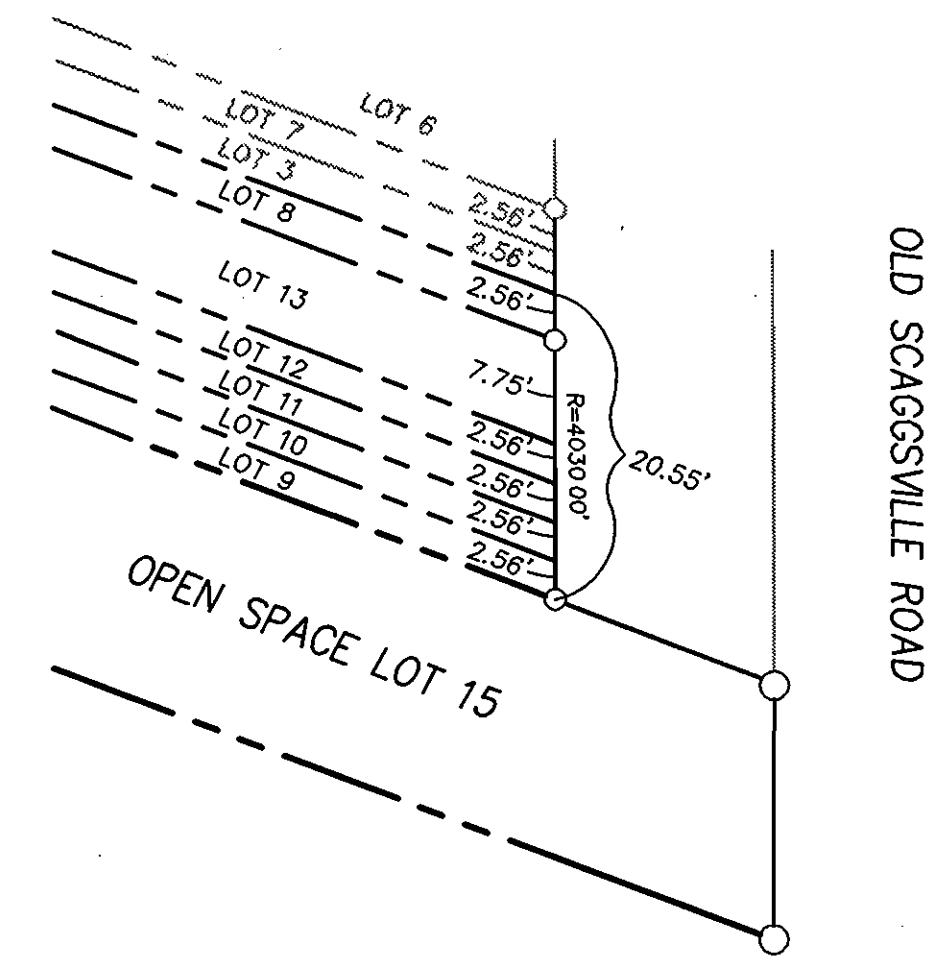
WATERLINE STATIONING	
ITEM	COORDINATES
1/16 AND 1/32 HORZ. BENDS @ STA. 0+00	N 529203.06 E 1350591.49
1/16 AND 1/32 HORZ. BENDS @ STA. 0+39±	N 529186.61 E 1350556.35
6" CAP AND BUTTRESS	N 529218.66 E 1350394.29

SANITARY SEWER STATIONING	
ITEM	COORDINATES
EX. SMH 4	N 529213.42 E 1350591.50
SMH 5	N 529197.05 E 1350555.08
SMH 6	N 529224.62 E 1350415.67

- GENERAL NOTES**
- PROPOSED PUBLIC WATER AND SEWER EASEMENT (WHICH IS SHADED ON PLAN) ABUTS EXISTING WATER AND SEWER EASEMENT AS INDICATED. EXISTING WATER AND SEWER SYSTEM DEPICTION IS TAKEN FROM JUNE 2001, CONTRACT 24-3909-D DRAWINGS.
 - OBSTRUCTIONS SHOWN HEREON ARE FOR THE CONVENIENCE OF THE CONTRACTOR. PRIOR TO BEGINNING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION OF ALL EXISTING UTILITIES AND TIE-IN ELEVATIONS FOR ALL PROPOSED GRADES AND PROPOSED UTILITIES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THE PLAN. IN THE EVENT OF DISCREPANCY BETWEEN THE PLAN AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY CENTURY ENGINEERING, INC.
 - EXISTING BUILDING FOOTPRINT FOR LOT 8 IS PER FIELD DATA. FOOTPRINTS FOR OTHER EXISTING BUILDINGS ARE PER F-01-20 CONTRACT DRAWINGS.
 - PRIOR TO BEGINNING CONSTRUCTION, THE DEVELOPER SHALL BE RESPONSIBLE TO NOTIFY THE OWNERS OF EXISTING RESIDENCES AFFECTED BY THE WATER MAIN SHUTDOWN, LISTED AS FOLLOWS:

LOT 3	10109 WILNOR WAY	JIMMY DO & DIANA LY
LOT 4	10113 WILNOR WAY	JOSEPH & LAURIE PHILLIPS
LOT 6	10101 WILNOR WAY	TROY & CINDY HAMMONS
LOT 7	10105 WILNOR WAY	KURT & MONICA CELESTINE
 - ALL LOTS, EXISTING AND PROPOSED, BY MEANS OF PIPESTEMS, FRONT ON OLD SCAGGSVILLE ROAD. FOR CLARITY OF WATER AND SEWER SYSTEMS AND EASEMENTS, PROPERTY LINES FOR LOTS 8 AND 8 THROUGH 15 ARE TERMINATED AT EASEMENT LOCATIONS ON THE PLAN. SEE LOT FRONTAGE DETAIL BELOW FOR CONFIGURATION OF PIPESTEMS AT OLD SCAGGSVILLE ROAD. FOR COMPLETE LOT LINE DEPICTION, SEE RECORD PLAT FOR HILLTOP ESTATES, SECTION II, LOTS 8-15.

NOTE: SEE GENERAL NOTE #6 ABOVE FOR DESCRIPTION OF PLAN LOT LINE DEPICTION.



LOT FRONTAGE DETAIL
NOT TO SCALE

AS BUILT
DATE: SEPT. 2000

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

SIGNATURE: *[Signature]* DATE: _____

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT (CORRESPONDING FINAL PLAN F-03-143)

APPROVED: _____ DATE: _____

HOWARD S.C.D.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 10-10-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature] 11/4/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS, PLANNERS, SURVEYORS
32 WEST ROAD
TOWSON, MARYLAND 21204
(410) 823-8070

[Signature] 10/2/03

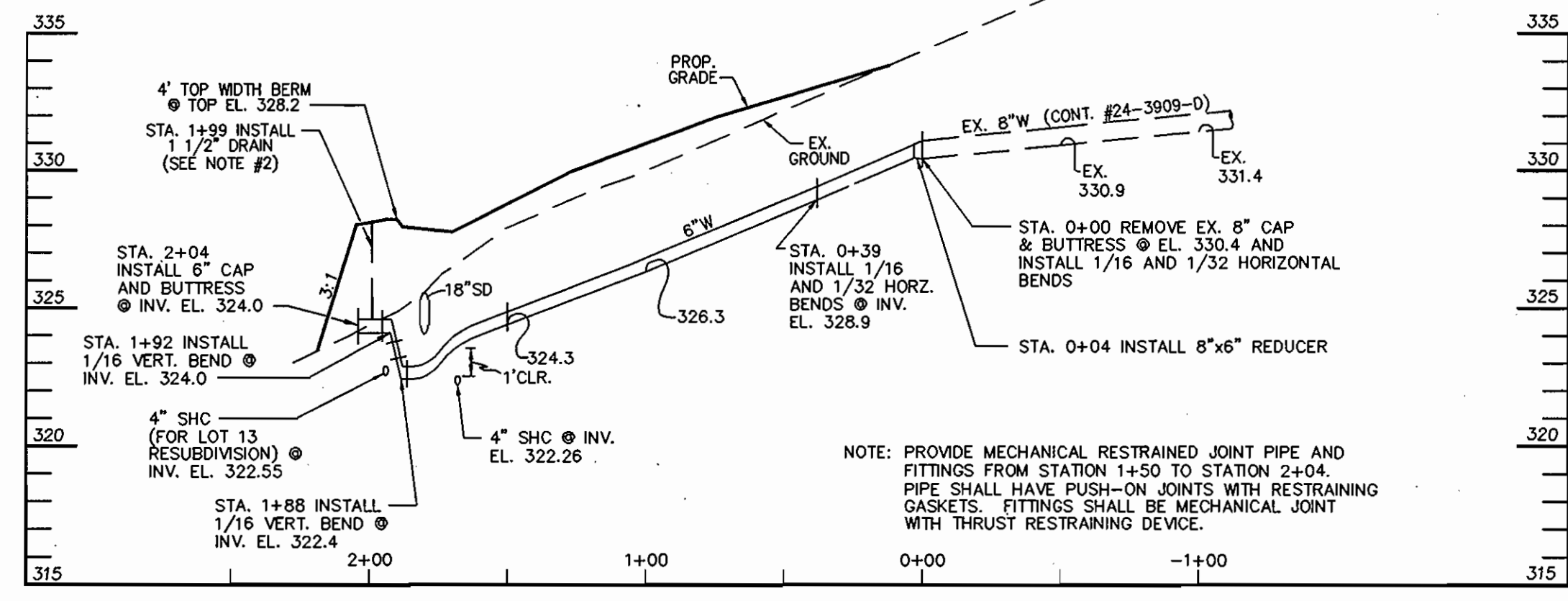
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WATER AND SEWER PLAN
HILLTOP ESTATES
SECTION II
(LOTS 8-15)

TAX MAP NO. 47 P/O PARCEL 760, AND 1018 GRID 19
ELECTION DISTRICT No. 6 HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-4121-D

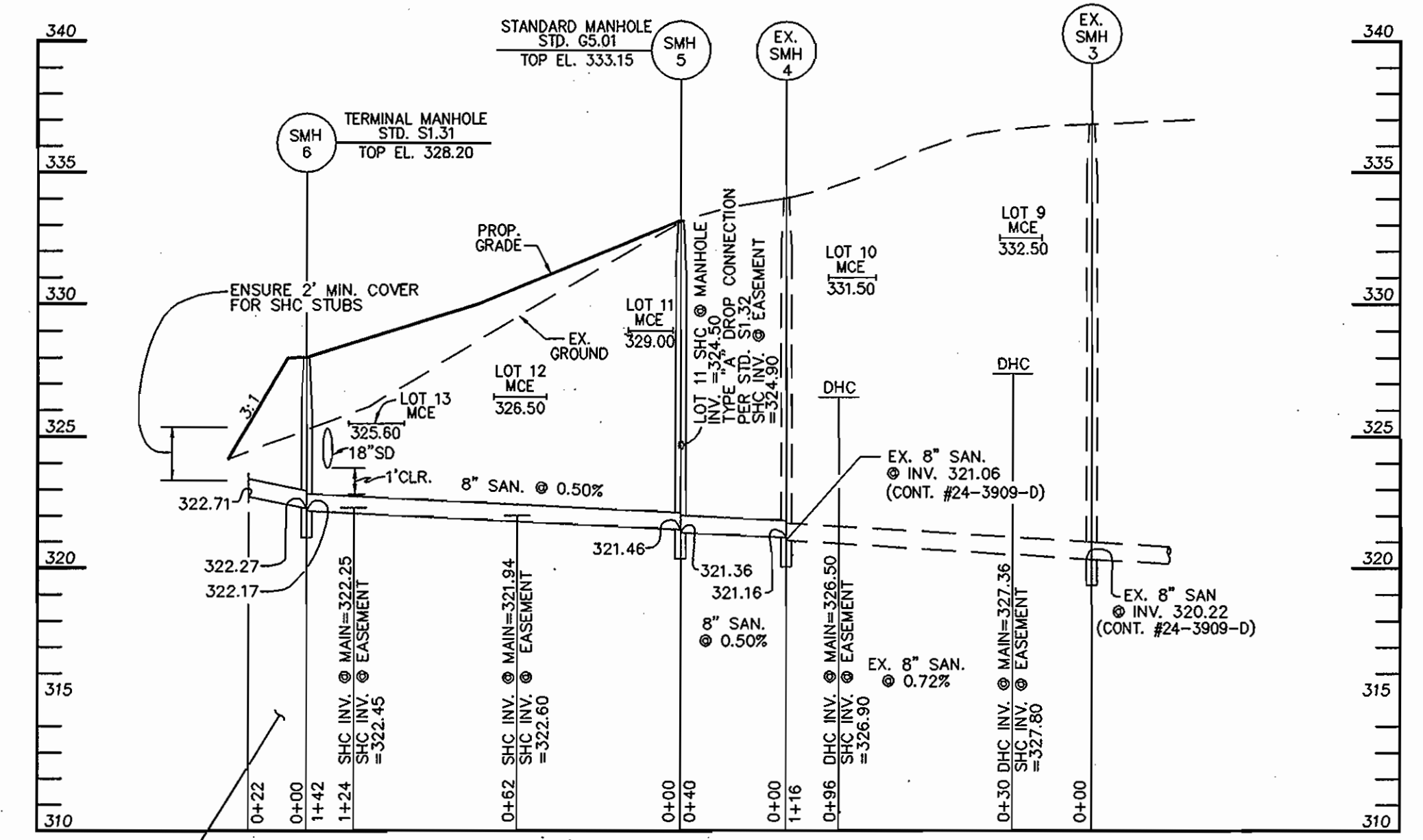
SCALE	ZONING	C.E.I. FILE No.
1"=50'	RSC	20195.00
DATE	TAX MAP No.	SHEET
OCT., 2003	47	2 OF 3

NOTES: 1. CONFIGURATION OF VERTICAL BENDS AS SHOWN PROVIDES 3.5' MIN. COVER OVER WATER MAIN AND 1' CLEARANCE BETWEEN WATER MAIN, STORM DRAIN AND SHC'S.
 2. INSTALL 1 1/2" DRAIN PER STANDARD DETAIL W 4.12. OFFSET COVER 6 FEET LEFT OF MAIN @ TOP EL. 328.10.



WATER PROFILE

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



SANITARY SEWER PROFILE

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

(2) 4" SHC'S (FOR FUTURE LOT 13 RESUBDIVISION) W/CAPS, @ 2.00% CENTERLINES 45' APART @ MH @. DEPICTED SHC ON PROFILE IS FOR SHC ON PROJECTED TO SEWER MAIN ALIGNMENT. EACH SHC (WITH 2' MINIMUM COVER) SHALL BE EXTENDED TO THE EASEMENT LINE.

AS BUILT
 DATE: SEPT. 2006

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
John B. ...
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
Michael ...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS, SURVEYORS
 32 WEST ROAD
 TOWSON, MARYLAND 21204
 (410) 823-8070



DES:				
DRN:				
CHK:				
DATE:	BY	NO	REVISION	DATE

WATER AND SEWER PROFILES
HILLTOP ESTATES SECTION II
 (LOTS 8-15)
 TAX MAP NO. 47 P/O PARCEL 780 AND 1018, GRID 19
 ELECTION DISTRICT No. 6 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-4121-D

SCALE	ZONING	C.E.I. FILE No.
1"=50'	RSC	20195.00
DATE	TAX MAP No.	SHEET
OCT., 2003	47	3 OF 3