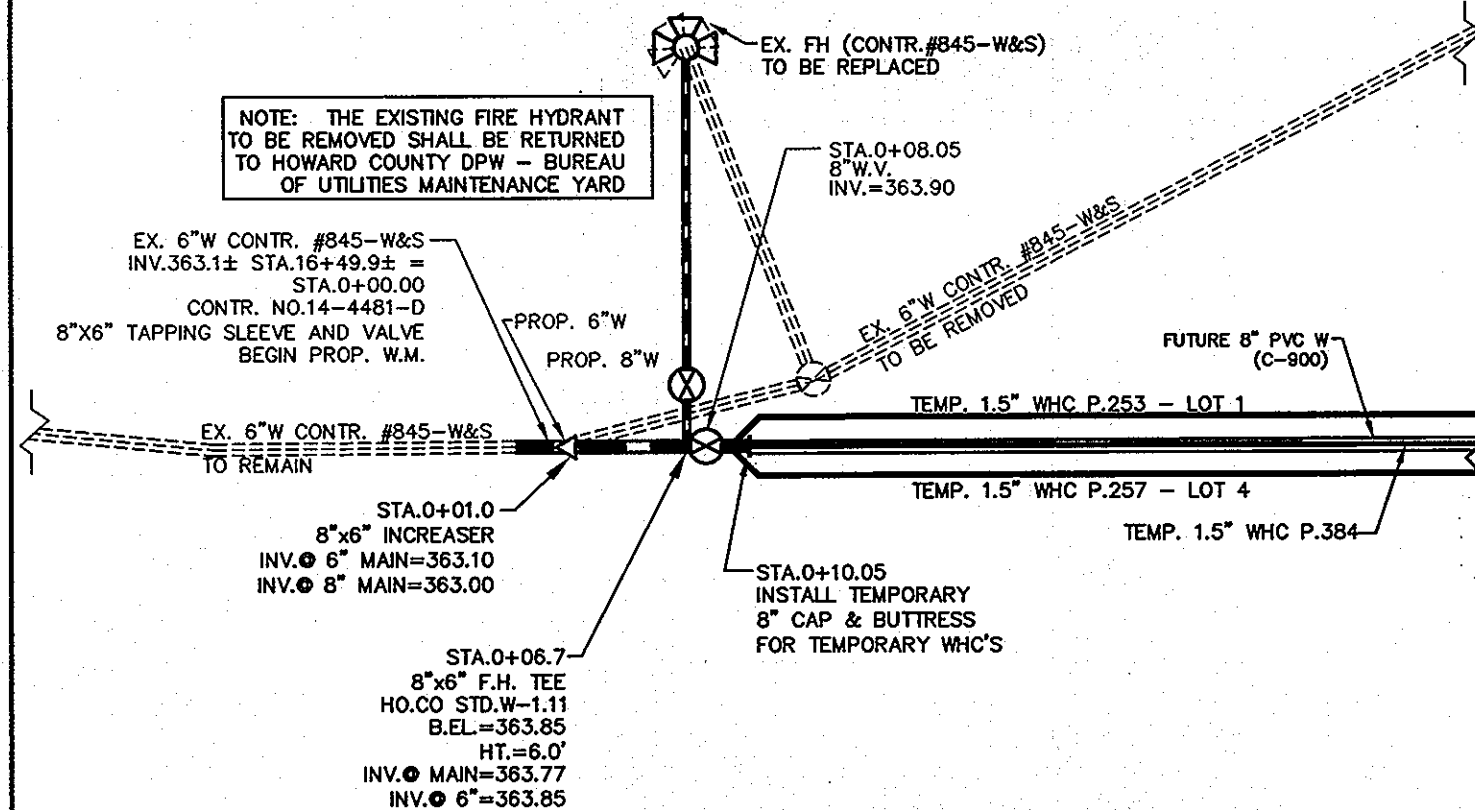


QUANTITY TABLE				
ITEMS	QUANTITIES ESTIMATED	QUANTITIES		
		TYPE	MANUFACTURER/SUPPLIER	
STANDARD MH (HO. CO. STD.G-5.12)	12 EACH			
DROP MH (HO. CO. STD.S-1.32)	0			
8" SEWER MAIN	884 LF			
8" D.I.P. SEWER MAIN	0			
4" SHC	133 LF			
# 4" SHC	8			
8" WATER MAIN (PVC C-900)	936 LF			
1 1/2" WHC (PERMANENT)	280 LF			
# 1 1/2" WHC	9			
6"x6" T. S. & V	1 EACH			
6"x8" INCREASER	1 EACH			
8"x6" F.H.T. & V.	2 EACH			
FIRE HYDRANT	2 EACH			
8" CAP & BUTTRESS	1 EACH			
1 1/2" WHC (TEMPORARY)	585 LF			

NAME OF UTILITY CONTRACTOR:
SURVEY AND DRAFTING DIVISION AS-BUILT DATE



TEMPORARY WATER HOUSE CONNECTION AND 8" CAP AND BUTTRESS DETAIL

NOTE: THIS LIST INCLUDES, BUT IS NOT LIMITED TO, ALL PARCELS/LOTS SERVICED BELOW THE CONNECTION OF CONTR. No.845-W&S TO CONTR. No.10-W BY AN 8" WV LOCATED AT THE INTERSECTION OF VIEW TOP ROAD AND HIGH POINT ROAD.

WATER MAIN ADDRESS INTERRUPTION CHART

PARCEL	LOT	STREET ADDRESS
253	1	3850 VIEW TOP ROAD
384	-	3896 VIEW TOP ROAD
257	2	3950 VIEW TOP ROAD
257	4	3902 VIEW TOP ROAD (UN-DEVELOPED)
257	5	3906 VIEW TOP ROAD (UN-DEVELOPED)
257	6	3910 VIEW TOP ROAD (UN-DEVELOPED)
257	7	3920 VIEW TOP ROAD (UN-DEVELOPED)
1126	6	3986 N. VIEW TOP ROAD
1126	7	3982 VIEW TOP ROAD
1126	8	3978 W. VIEW TOP ROAD
1126	9	3974 W. VIEW TOP ROAD
1126	10	3990 VIEW TOP ROAD
1078	2	3994 VIEW TOP ROAD
308	1	3995 VIEW TOP ROAD
308	2	3991 VIEW TOP ROAD
308	3	3987 VIEW TOP ROAD
308	5	3981 VIEW TOP ROAD
308	6	3975 VIEW TOP ROAD

EROSION AND SEDIMENT CONTROL PROVIDED UNDER F-07-110 (HAWES PROPERTY)

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.

DEVELOPER'S SIGNATURE: *R. JACOBS HIKMAT* DATE: 3/5/12

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.

ENGINEER'S SIGNATURE: *JEFFREY SLOMAN, P.E.* DATE: 3/5/12

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

HOWARD SCD: *John K. Hinton* DATE: 4/16/12

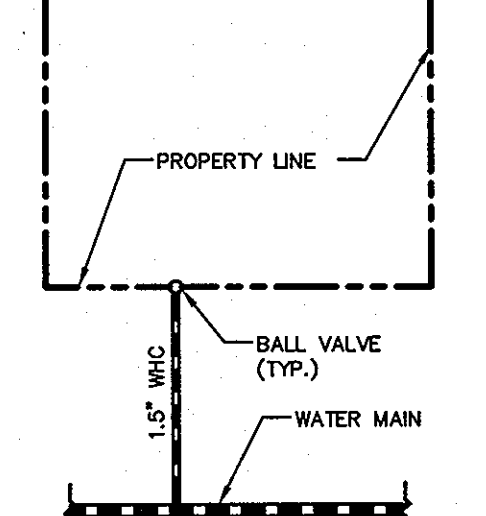
PLAN REFERENCE NUMBERS:
F-07-110

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.: 40091, EXPIRATION DATE: 2/13/13



LOCATION MAP

SCALE: 1" = 600'



TYPICAL WATER HOUSE CONNECTION

NOT TO SCALE

(FOR COUNTY USE ONLY)		RESIDENTIAL	
WATER AND SEWER COUNTY CODE			
WATER CODE:	605	No. OF UNITS:	2*
SEWER CODE:	1402500	No. OF WATER HOUSE CONNECTION:	9**
TEST GRADIENT:	550	No. OF SEWER HOUSE CONNECTIONS:	8**
		DRAINAGE AREA:	PATAPSCO
		TREATMENT PLANT:	PATAPSCO
		* INCLUDES EXISTING LOT 1 AND NON-BUILDABLE BULK PARCEL 'A'	
		**NEW CONNECTIONS FOR EXISTING HOUSES ON LOT 1, PARCEL 257 AND 384	

- SEWER
- 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 COVER. STANDARD DETAIL 05.52. WHERE WATER-TIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATED THAT THE CELLAR CANNOT BE SERVED.

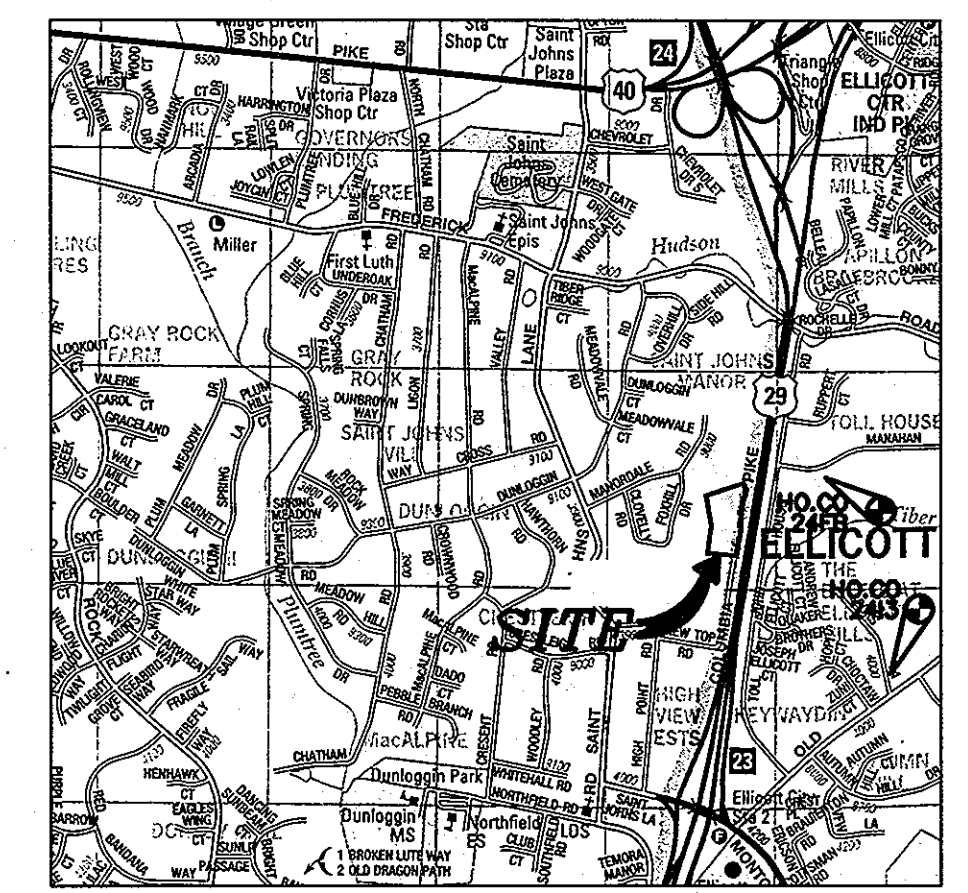
SHEET INDEX

1	COVER SHEET
2	WATER AND SEWER PLAN PROPOSED CONDITION
3	WATER PROFILES
4	SEWER PROFILES

CONTRACT NO.: 14-4481-D
HAWES PROPERTY
LOTS 3 THRU 8, OPEN SPACE LOT 9
AND NON-BUILDABLE BULK PARCEL 'A'
RESUBDIVISION OF LOT 2
WATER AND SEWER MAIN EXTENSION
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

GEODETIC - NAD '83
HO. CO. #24FB EL=423.279
N-582652.103 E-1,364,253.930
STAMPED DISC ON CONC. MONUMENT 42'
NW FROM PK SET ALONG N. EDGE OF
MANAHAN ROAD; 128' FROM EX. TWMHSE.;
WITHIN TRANSMISSION LINE R/W

HO. CO. #2413 EL=404.482
N-580548.904 E-1,364,974.471
STAMPED DISC ON CONC. MONUMENT 159'
NE FROM BGE POLE #501794; 97.3' SE
FROM EX. 10" CEDAR TREE IN CENTER OF
TRANSMISSION LINE R/W



VICINITY MAP

ADC MAP 4815 GRID J-8
SCALE: 1" = 2000'

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.
- TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PERFORMED ON OR ABOUT JULY 2011 BY MILDENBERG, BOENDER ASSOCIATES.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:
THE COORDINATE DATA ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 24FB AND NO. 2413. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HO.CO. GEODETIC CONTROL STA. 24FB AND 2413.
- 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 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 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.
- 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(CONTRACTOR SERVICES)	410-637-8713
BGE(EMERGENCY)	410-685-0123
BUREAU OF UTILITIES	410-315-4900
COLONIAL PIPELINE COMPANY	410-795-1390
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033/410-224-9210
MISS UTILITY	1-800-257-7777

- 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(g) OF THE HOWARD COUNTY CODE.

WATER

- ALL WATER MAINS SHALL BE PVC (C-900), DR-18 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL 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 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE TEST RECORDS. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS-REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.

UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN (17) POND SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 3/22/12

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
DATE: 4/26/12

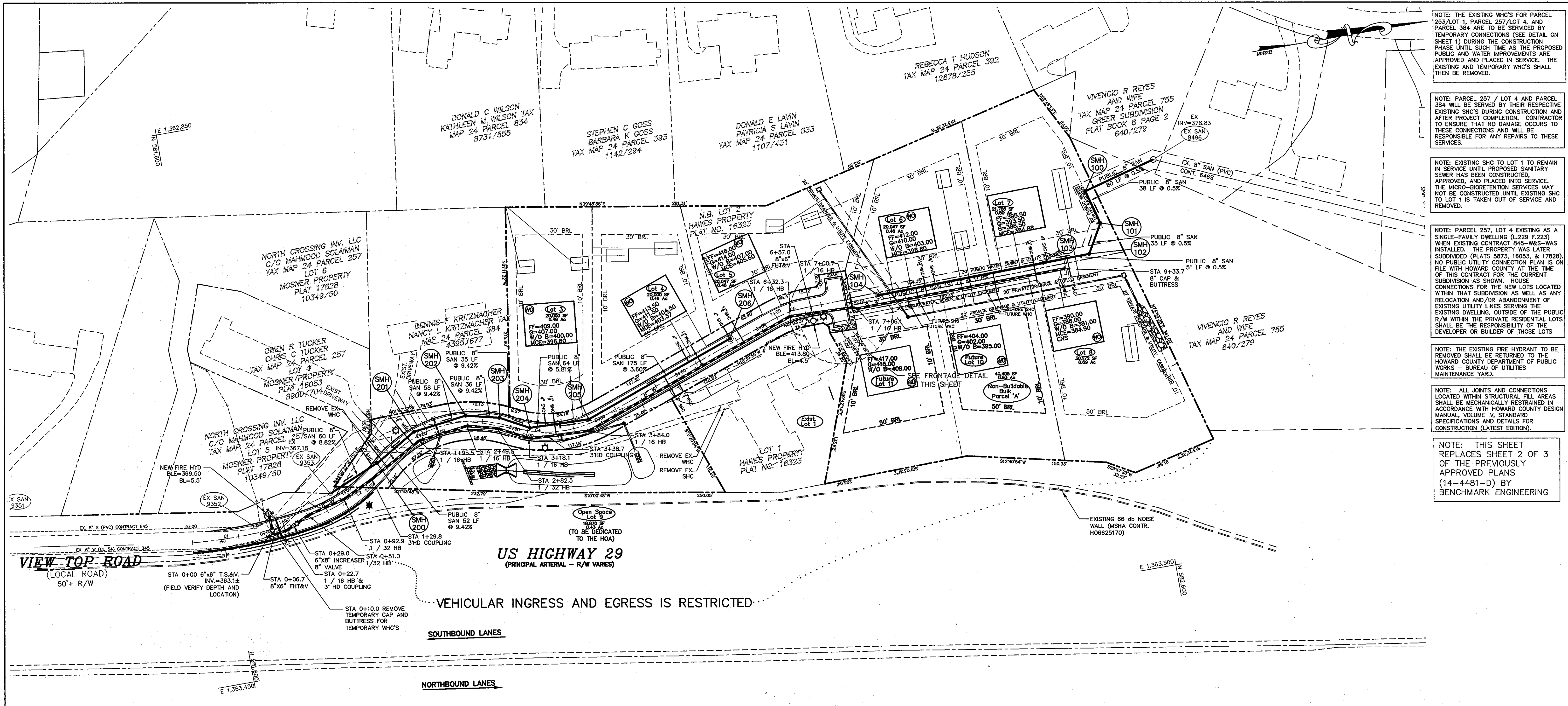
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
8800 Deerpath Road, Suite 150, Elkridge, Maryland 21075
(410) 897-0236 Ball. (410) 897-0238 Fax.

engineering JLS
illustration JLS
approval JLS
project 10-024
date DEC 2011 BY NO. REVISION DATE

COVER SHEET
600' SCALE MAP NO. 24 BLOCK NO. 17

HAWES PROPERTY
LOTS 3 THRU 8, O.S. LOT 9, UNBUILDABLE BULK PARCEL 'A'
CONTRACT 14-4481-D
SECOND ELECTION DISTRICT
HOWARD COUNTY

scale AS SHOWN
1 OF 4



NOTE: THE EXISTING WHC'S FOR PARCEL 253/LOT 1, PARCEL 257/LOT 4, AND PARCEL 384 ARE TO BE SERVED BY TEMPORARY CONNECTIONS (SEE DETAIL ON SHEET 1) DURING THE CONSTRUCTION PHASE UNTIL SUCH TIME AS THE PROPOSED PUBLIC AND WATER IMPROVEMENTS ARE APPROVED AND PLACED IN SERVICE. THE EXISTING AND TEMPORARY WHC'S SHALL THEN BE REMOVED.

NOTE: PARCEL 257 / LOT 4 AND PARCEL 384 WILL BE SERVED BY THEIR RESPECTIVE EXISTING SHC'S DURING CONSTRUCTION AND AFTER PROJECT COMPLETION. CONTRACTOR TO ENSURE THAT NO DAMAGE OCCURS TO THESE CONNECTIONS AND WILL BE RESPONSIBLE FOR ANY REPAIRS TO THESE SERVICES.

NOTE: EXISTING SHC TO LOT 1 TO REMAIN IN SERVICE UNTIL PROPOSED SANITARY SEWER HAS BEEN CONSTRUCTED, APPROVED, AND PLACED INTO SERVICE. THE MICRO-BIORETENTION SERVICES MAY NOT BE CONSTRUCTED UNTIL EXISTING SHC TO LOT 1 IS TAKEN OUT OF SERVICE AND REMOVED.

NOTE: PARCEL 257, LOT 4 EXISTING AS A SINGLE-FAMILY DWELLING (L229 F.223) WHEN EXISTING CONTRACT 845-W25-WAS INSTALLED. THE PROPERTY WAS LATER SUBDIVIDED (PLATS 5873, 16053, & 17828). NO PUBLIC UTILITY CONNECTION PLAN IS ON FILE WITH HOWARD COUNTY AT THE TIME OF THIS CONTRACT FOR THE CURRENT SUBDIVISION AS SHOWN. HOUSE CONNECTIONS FOR THE NEW LOTS LOCATED WITHIN THAT SUBDIVISION AS WELL AS ANY RELOCATION AND/OR ABANDONMENT OF EXISTING UTILITY LINES SERVING THE EXISTING DWELLING, OUTSIDE OF THE PUBLIC R/W WITHIN THE PRIVATE RESIDENTIAL LOTS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR BUILDER OF THOSE LOTS

NOTE: THE EXISTING FIRE HYDRANT TO BE REMOVED SHALL BE RETURNED TO THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - BUREAU OF UTILITIES MAINTENANCE YARD.

NOTE: ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION).

NOTE: THIS SHEET REPLACES SHEET 2 OF 3 OF THE PREVIOUSLY APPROVED PLANS (14-4481-D) BY BENCHMARK ENGINEERING

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

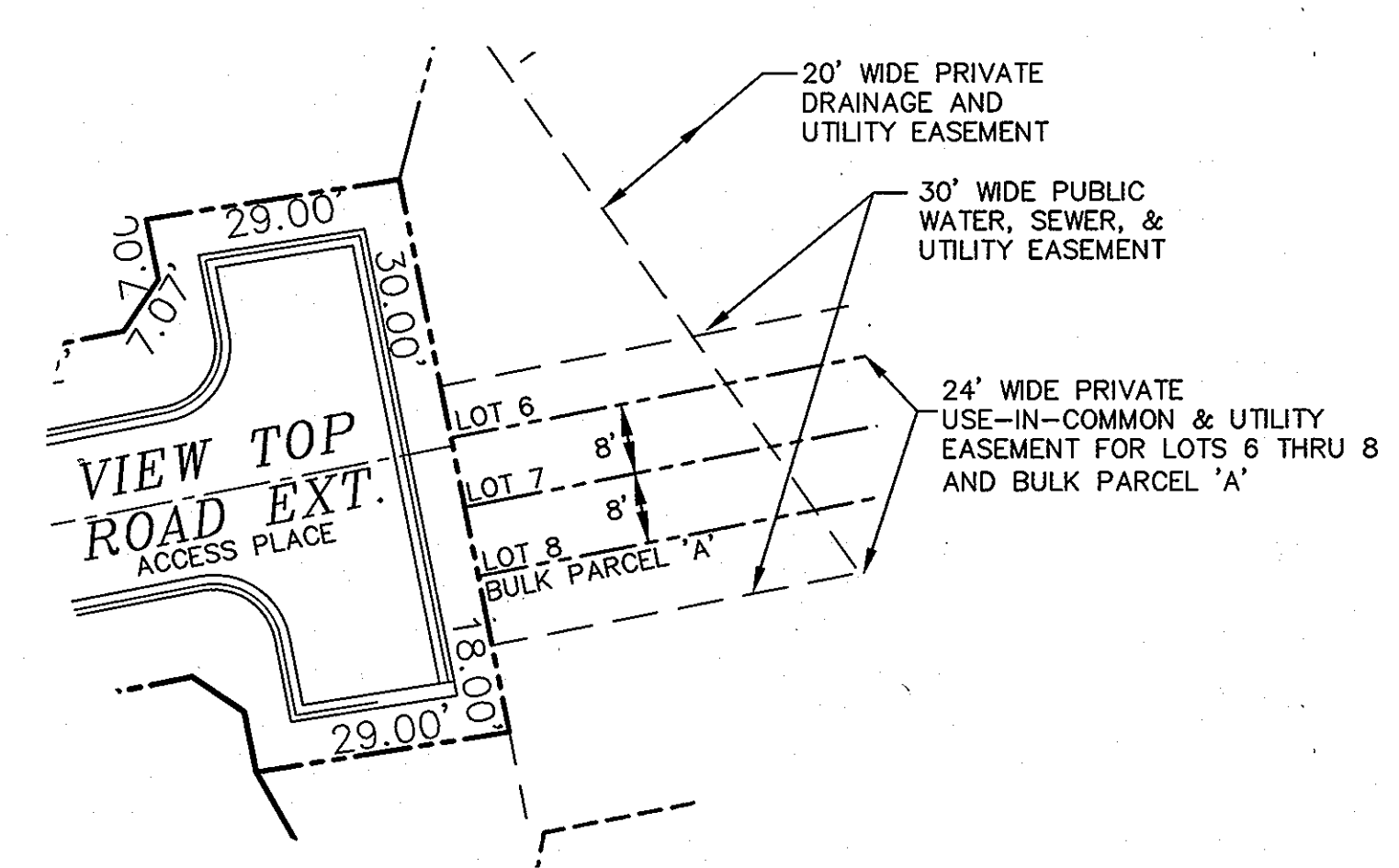
LOT #	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1 (EXIST.)	VIEW TOP ROAD		
3	VIEW TOP ROAD		
4	VIEW TOP ROAD		
5	VIEW TOP ROAD		
6	VIEW TOP ROAD		
7	VIEW TOP ROAD		
8	VIEW TOP ROAD		
4 (PARCEL 257-MOSNER)	VIEW TOP ROAD		

SEWER HOUSE CONNECTION DATA TABLE

LOT #	SLOPE	INV. @ R/W OR EASEMENT	MIN. CELLAR ELEV.
1 (EXIST.)	2.0%	398.27	404.33
3	2.0%	391.69	398.80
4	2.0%	399.17	403.37
5	2.0%	401.02	405.60
6	2.0%	394.64	398.80
7	2.0%	380.54	384.88
8	2.0%	380.83	384.90 (ONS)
4 (PARCEL 257-MOSNER)	2.0%	372.92	382.71

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

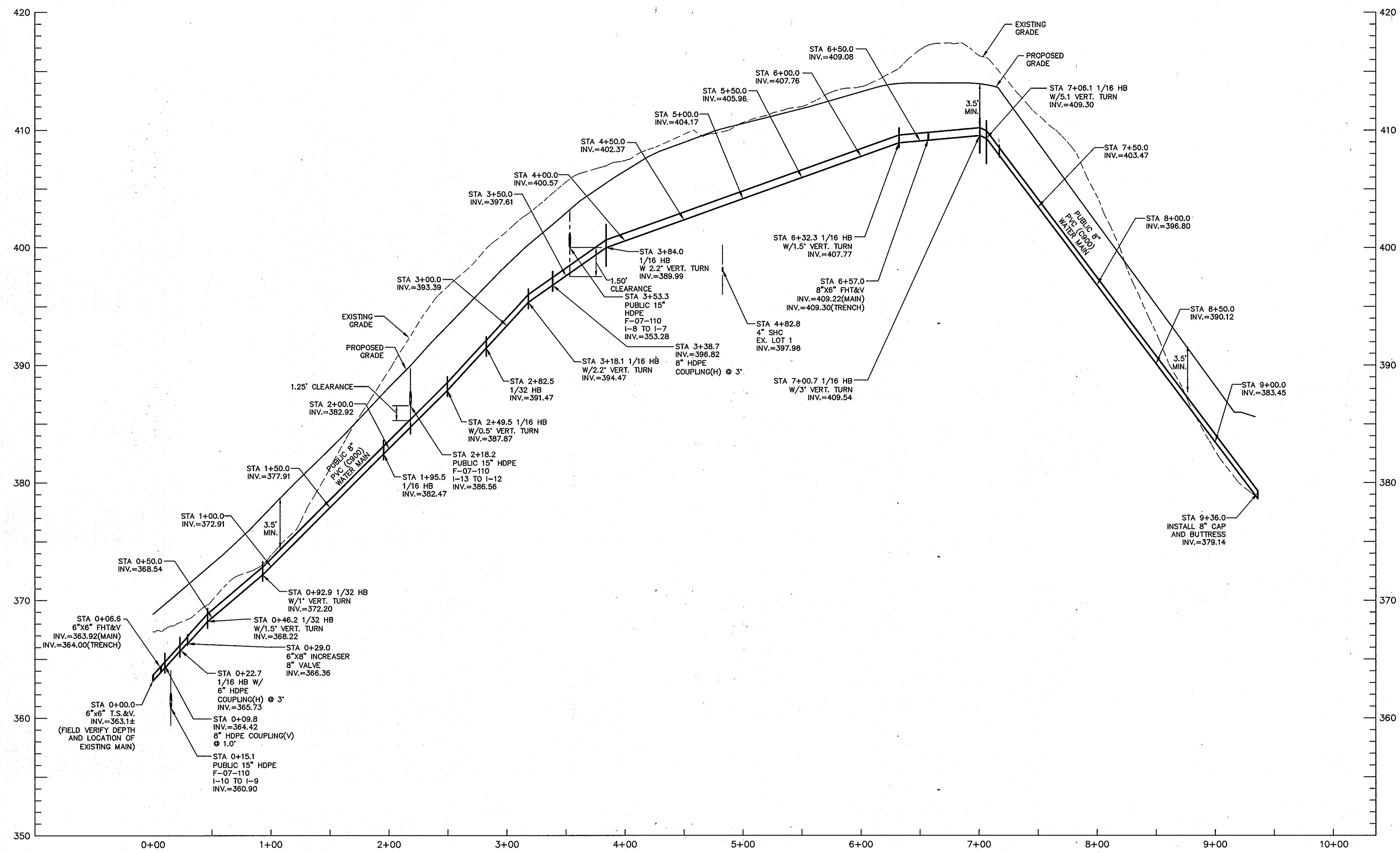
LOT #	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1 (EXIST.)	VIEW TOP ROAD		
3	VIEW TOP ROAD		
4	VIEW TOP ROAD		
5	VIEW TOP ROAD		
6	VIEW TOP ROAD		
7	VIEW TOP ROAD		
8	VIEW TOP ROAD		
PARCEL 384	VIEW TOP ROAD		
4 (PARCEL 257-MOSNER)	VIEW TOP ROAD		
5 (PARCEL 257-MOSNER)	VIEW TOP ROAD		



EXISTING SANITARY MANHOLE I.D.
 PROPOSED SANITARY MANHOLE I.D.
 MICRO-BIORETENTION FACILITY

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.: 40091, EXPIRATION DATE: 2/13/13

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 8800 Deepwater Road, Suite 150, Elkridge, Maryland 21075 (410) 997-0286 Balt. (410) 997-0298 Fax	engineering JIS illustration JIS approval RJB project 10-024 date DEC 2011	WATER AND SEWER PLAN PROPOSED CONDITION	HAWES PROPERTY LOTS 3 THRU 8, O.S. LOT 9, UNBUILDABLE BULK PARCEL 'A' CONTRACT 14-4481-D SECOND ELECTION DISTRICT HOWARD COUNTY	scale 2 OF 4
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WATER MAIN PROFILE

SCALE 1"=50' HOR
1"=6' VER

WATER MAIN APPURTENANCE TABLE

APPURTENANCE	STATION / LOCATION	OFFSET
6"x6" T.S.&V.	VIEW TOP ROAD / STA 0+79.9	7.0' R
6"x6" TEE FOR FIRE HYDRANT	VIEW TOP ROAD / STA 0+87.1	6.2' R
TEMPORARY CAP AND BUTTRESS REMOVAL	VIEW TOP ROAD / STA 0+89.7	5.9' R
1 / 16 HB & 3" HDPE COUPLING	VIEW TOP ROAD / STA 1+02.3	4.9' R
6"x8" INCREASER / 8" WATER VALVE	VIEW TOP ROAD / STA 1+08.2	2.9' R
1 / 32 HB	VIEW TOP ROAD / STA 1+24.3	3.5' L
1 / 32 HB	VIEW TOP ROAD / STA 1+71.9	2.2' L
3" HDPE COUPLING	VIEW TOP ROAD / STA 2+09.0	0.6' R
1 / 16 HB	VIEW TOP ROAD / STA 2+76.2	5.3' R
1 / 16 HB	VIEW TOP ROAD / STA 3+32.9	4.9' R
1 / 32 HB	VIEW TOP ROAD / STA 3+67.1	5.6' R
1 / 16 HB	VIEW TOP ROAD / STA 4+02.5	7.9' R
3" HDPE COUPLING	VIEW TOP ROAD / STA 4+21.8	4.8' R
1 / 16 HB	VIEW TOP ROAD / STA 4+65.1	7.3' R
1 / 16 HB	VIEW TOP ROAD / STA 7+13.3	4.1' R
8"x6" TEE FOR FIRE HYDRANT	VIEW TOP ROAD / STA 7+38.8	7.3' R
1 / 16 HB	VIEW TOP ROAD / STA 7+82.5	9.6' R
1 / 16 HB	N 582,310.7413 E 1,363,167.3007	
8" CAP AND BUTTRESS	N 582,538.3073 E 1,363,163.7112	

NOTE: THIS SHEET REPLACES SHEET 3 OF 3 OF THE PREVIOUSLY APPROVED PLANS (14-4481-D) BY BENCHMARK ENGINEERING

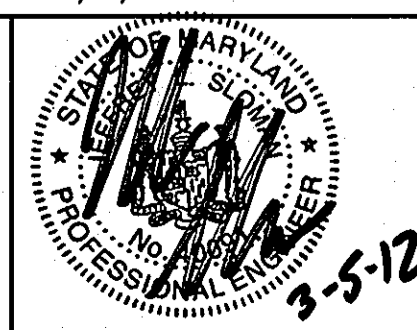
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H:\10-024-HAWES\DWG\24-NS-September

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Silvia Chan
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Michelle
CHIEF, DEVELOPMENT ENGINEERING DIVISION

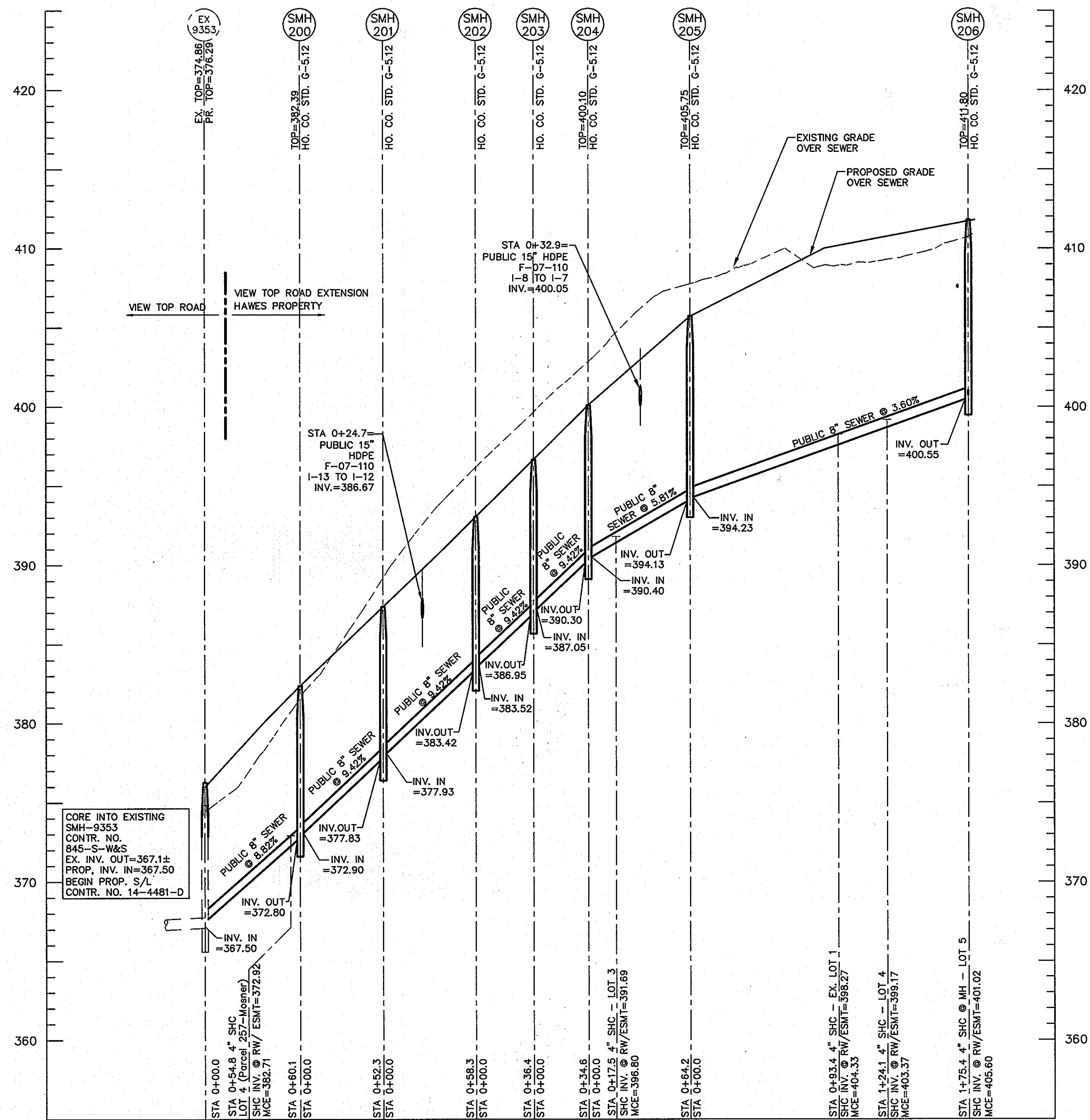
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6800 Deepwater Road, Suite 150, Elkridge, Maryland 21075
(410) 997-0298 Bulk (410) 997-0298 Fax



engineering	JIS				
illustration	JIS				
approval	RJH				
project	10-024				
date	DEC 2011	BY	NO.	REVISION	DATE

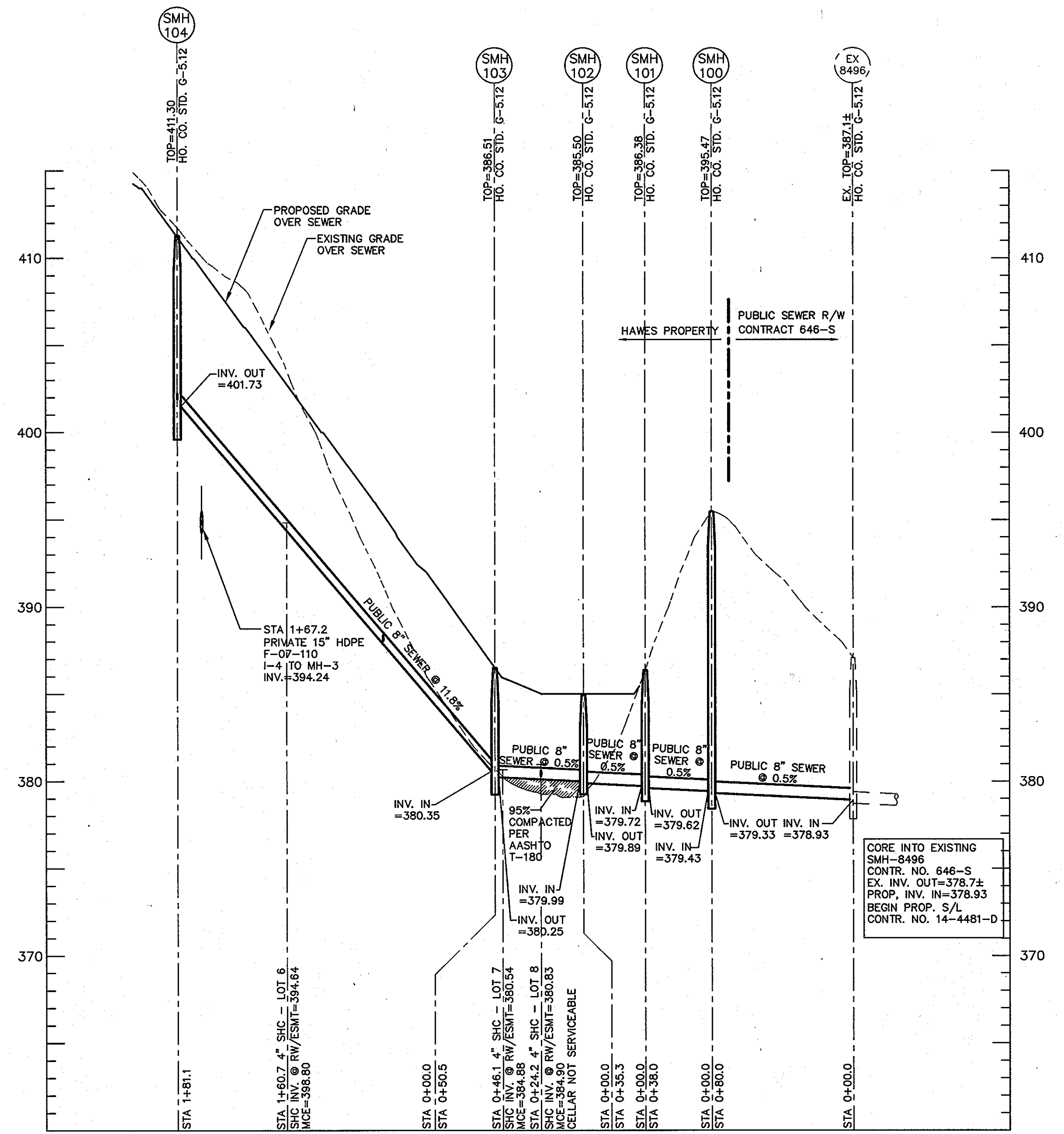
WATER PROFILES
600' SCALE MAP NO. 24 BLOCK NO. 17

HAWES PROPERTY
LOTS 3 THRU 8, O.S. LOT 9, UNBUILDABLE BULK PARCEL 'A'
CONTRACT 14-4481-D
SECOND ELECTION DISTRICT
HOWARD COUNTY



SANITARY SEWER PROFILE - SMH 204 TO EXSMH 9353

SCALE 1"=50' HOR
1"=5' VER



SANITARY SEWER PROFILE - SMH 104 TO EXSMH 8496

SCALE 1"=50' HOR
1"=5' VER

SEWER MANHOLE TABLE

MANHOLE	STATION / LOCATION	OFFSET
SMH 100	N 582,574.98 E 1,363,085.42	
SMH 101	N 582,584.91 E 1,363,122.06	
SMH 102	N 582,567.33 E 1,363,152.65	
SMH 103	N 582,516.85 E 1,363,153.56	
SMH 104	N 582,310.79 E 1,363,157.39	
SMH 200	VIEW TOP ROAD / STA 2+26.2	6.7' L
SMH 201	VIEW TOP ROAD / STA 2+76.4	6.0' L
SMH 202	VIEW TOP ROAD / STA 3+32.4	6.3' L
SMH 203	VIEW TOP ROAD / STA 3+67.3	6.1' L
SMH 204	VIEW TOP ROAD / STA 4+01.9	3.4' L
SMH 205	VIEW TOP ROAD / STA 4+69.0	4.3' L
SMH 206	VIEW TOP ROAD / STA 6+44.9	5.0' L

NOTE: THIS SHEET REPLACES SHEET 3 OF 3 OF THE PREVIOUSLY APPROVED PLANS (14-4481-D) BY BENCHMARK ENGINEERING

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H: 10-024 HAWES.DWG 2-14-13-September

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>[Signature]</i> CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	MILDENBERG, BOENDER & ASSOC., INC. <small>Engineers Planners Surveyors</small> 8800 Deeppath Road, Suite 150, Elkrige, Maryland 21075 (410) 897-0298 Bull. (410) 897-0298 Fax.		engineering JLS illustration JLS approval RJH project 10-024 date DEC 2011	BY NO. _____ REVISION _____ DATE _____	SEWER PROFILES 600' SCALE MAP NO. <u>24</u> BLOCK NO. <u>17</u>	HAWES PROPERTY LOTS 3 THRU 8, O.S. LOT 9, UNBUILDABLE BULK PARCEL 'A' CONTRACT 14-4481-D SECOND ELECTION DISTRICT HOWARD COUNTY	scale 4 OF 4
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