WATER AND SEWER EXTENSION - PHASE III LUTHERAN VILLAGE AT MILLER'S GRANT

2nd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-4894-D

17710	QUANTITIES		AS-BUILT	
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER
WATER				
8" WATER-C900 PVC DR-14	793 LF	793 L.F.	C900 PVC	NORTH AMERICAN
6" WATER-C900 PVC DR-14	50 LF	50 L.F.	C900 PVC	NORTH AMERICAL
8"x 8" TEE	1	. 	DIP	TYLER UNION
8"x 6" TEE	0			
8"x 8" TS&V	0			
8" CAP & BUTTRESS	2	2	DIP	TYLER UNION
6" CAP & BUTTRESS	0			
8" VALVE	1	1	GATE VALVE	AFC
6" VALVE (FH)	3	3	GATE VALVE	AFC
8"X6" FHT	3 :	3	DIP	TYLER UNION
FIRE HYDRANT	3	3	HYDRANT	AFC
1-1/2" COPPER WHC	343 LF	343 L.F.	COPPER TUBING	CAMBRIDGE LE
8" DIP WHC	0 LF			
1/8 8". VB	0		·	
1/32 8* VB	0			
2° 8" HDC	* 2		DIP	TYLER UNION
3° 8" HDC	2	2.	DIP	TYLER UNION
5" 8" VERT. SWEEP	X 1	2	DIP	TYLER UNION
1/8 8" HB	1		DIP	TYLER UNION
1/16 8" HB			DIP	TYLER UNION
1/16 6" HB	0			. 1
1/32 8" HB	2	2	DIP	TYLER UNION
5° 8" HORIZ. SWEEP	3	3	DIP	TYLER UNION
SEWER		• •		
PUBLIC SEWER MANHOLES	1	,	PRECAST	CONTRACTORS PRECAST
8" PVC	10 LF	20 L.F.	C900 PVC	NORTH AMERICAN
HECKBOX				
S-BUILT DATE			2	*

W	WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE						
UNIT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2				
26	8815 VALS LANE	WHC TO WM - 4.2'	WHC TO SMH-25 - 19.8'				
27	8819 VALS LANE	WHC TO WM - 4.1'	WHC TO SMH 25 - 72.8'				
28	8823 VALS LANE	WHC TO WM - 3.9'	WHC TO I-88 - 39.5'				
29	8828 VALS LANE	WHC TO WM - 3.9'	WHC TO SMH-24 - 91.2'				
30	8824 VALS LANE	WHC TO WM - 3.5'	WHC TO FH-11-25.1'				
31	8820 VALS LANE	WHC TO WM - 4.1'	WHC TO SMH-25-69.9'				
32	2908 PAULS PROVISION	WHC TO WM - 4.3'	WHC TO FH-10-69.3'				
33	2912 PAULS PROVISION	WHC TO WM - 3.4'	WHC TO SMH-27-19.1'				
34	2911 PAULS PROVISION	WHC TO WM - 4.2'	WHC TO SMH-27-55.8'				
35	2907 PAULS PROVISION	WHC TO WM - 4.3'	WHC TO FH-10 - 39.5'				
36	2903 PAULS PROVISION	WHC TO WM - 4.6'	WHC TO I-82 - 43'				

WM = WATER METER WHC = WATER HOUSE CONNECTION

unit number	ADDR <i>ES</i> S	LOCATION DIMENSION I	LOCATION DIMENSION 2
26	8815 VALS LANE	SHC TO WM -18.8'	SHC TOSMH-25 - 21.5"
27	8819 VALS LANE	SHC TO WM-19.6'	SHC TO I-88 - 48.8'
28	8823 VALS LANE	SHC TO WM - 5.9'	SHC TO I-88 - 42.9'
79	8828 VALS LANE	SHC TO WM - 20.7'	SHC TO SM H . 24 - 86.5'
30	8824 VALS LANE	SHC TO WM - 7.7'	SHC TO FH-11 - 22.2"
31	8820 VALS LANE	SHC TO WM - 15.8'	SHC TO SMH -25 - 54.6'
32	2908 PAULS PROVISION	SHC TO WM- 9.5'	SHC TO FH-10 - 74.8'
33	2912 PAULS PROVISION	SHC TO WM - 21.6'	SHC TO SMH-27-16.8'
34	2911 PAULS PROVISION	SHC TO WM - 30. Z'	SHC TO SMH 27 - 31.4'
35	2907 PAULS PROVISION	SHC TO WM- 9.9'	SHC TO FH-10 - 35.9'
36	2903 PAULS PROVISION	SHC TO WM - 7.6'	SHC TO I-82 - 38.7'

SHC = SEWER HOUSE CONNECTION

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-08-075

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL

DEPARTMENT OF PLANNING & ZONING DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION N





CONTRACT

2+72.59=0+00-BEGIN

(44-4893-D)

LOCATION MAP

SCALE: 1"=600"

PROP 8

Abress.		DATE.	000, 2014	BY	NO.	REVISION
41	•	JUL, 2014	CHC	1	ADJUST WATER MAIN ELEVATION PER GRADING ADJ	
	E Ally C	CHK:	ENJ			· ·
1.300	/ i .			L		
	101	DRN:	DAM			
P. T. T.						
WORK!	, "Eg.					

TYPE OF BUILDINGS: RESIDENTIAL

TREATMENT PLANT: LITTLE PATUXENT

WINER / DEVELOPER

300 SAINT LUKE CIRCLE

RAN VILLAGE AT MILLER'S GRANT O CARROLL LUTHERAN VILLAGE DY CHIAVACCI, EXECUTIVE VICE PRESIDENT

NO. OF UNITS: 11

DRAINAGE AREA: 50.00

NUMBER OF W.H.C.: 11 NUMBER OF S.H.C.: 0

LEGEND

EXISTING SANITARY SEWER EX. 8" WATER EXISTING WATER EXISTING FIRE HYDRANT TO BE ABANDONED

EXISTING STREAM

PROPERTY LINE PROPOSED PUBLIC WATER PROPOSED PRIVATE SEWER 8" WATER MAIN 8" PRIV. SAN.

WATER ZONE: 550

WATER NO. 130-W

SEWER NO. 130-S

COUNTY USE

ZONE: PSC

TEST GRADIENT: 700

SITE ANALYSIS

- TOTAL AREA OF SITE: 2,178,000 SQ. FT. OR 50.00 \pm AC.
- ZONING: PSC EXISTING USE: AGRICULTURAL
- PROPOSED USE: AGE RESTRICTED ADULT HOUSING DEVELOPMENT BUILDING DATA: MAXIMUM BUILDING HEIGHT ALLOWED:
- OTHER PRINCIPAL STRUCTURES: 34 FEET

APARTMENTS: 60 FEET

- ACCESSORY STRUCTURES: 15 FEET PARKING DATA: 588 SPACES
- IMPERVIOUS AREA: 16.74 AC
- DEED REFERENCE: 1220/554 9. RELATED FILES FOR THIS SITE: SDP-08-075
- 10. ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
- 11. TAX MAP: 24, GRID: 9, PARCEL 1001 12. AREA OF DISTURBANCE: 37.0 ACRES,

MISS UTILITY Service Protection Center

CALL TOLL FREE 1-800-257-7777

600 SCALE MAP NO.

ALL SEWER MAINS SHALL BE DIP OR PVC UNLESS OTHERWISE NOTED. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE

COVER SHEET

24 BLOCK NO.

FORCE MAINS SHALL BE DIP ONLY.
MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE

PART III SEWER

1. SHC'S SHALL BE 4" IN DIAMETER OR OTHERWISE INDICATED.

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." INDICATES THAT THE CELLAR CANNOT

DEI DATE: 6-23-16

2nd ELECTION DISTRICT

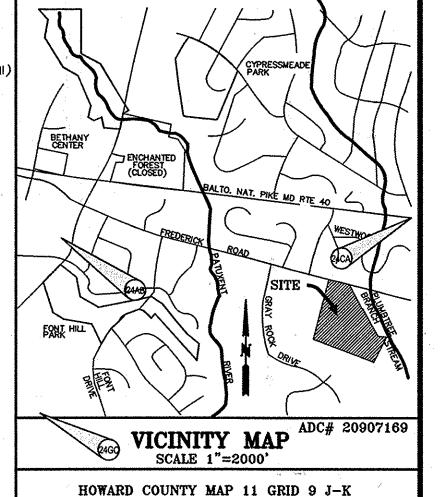
BENCHMARK

HORIZONTAL: MARYLAND NAD83 (ADJ 199 VERTICAL: NAVD88 GEODETIC SURVEY CONTROL: 24AB NORTHING: 585836.919 EASTING: 1351345.55 ELEVATION: 383,214

GEODETIC SURVEY CONTROL: 24CA NORTHING: 586506.180 EASTING: 1361634.29

GEODETIC SURVEY CONTROL: 24GC NORTHING: 578868.853 EASTING: 1352120.69 ELEVATION: 438.911

STAMPED DISC SET ON 3' DEEP COLUMN



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 AUGUST 2005 BY christopher consultants, Itd.

HORIZONTAL AND VERTICAL SURVEY CONTROLS:

THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 24AB, NO. 24CA, AND NO. 24GC. ALL VERTICAL CONTROLS ARE BASED

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 CONTRACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THAT 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

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

BGE (EMERGENCY) BUREAU OF UTILITIES COLONIAL PIPELINE CO. ..1-800-257-777

......410-531-55331-800-743-0033/410-224-9210 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.

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.

THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION.

PART II WATER

1. ALL WATER MAINS SHALL AWWA C900 PVC DR-14.
2. TOPS OF ALL WATER MAINS SHALL HAVE MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.

ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS

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 WIRES 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 MATERIAL FOR USE. 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 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 CONSTRUCTIONS. SEVENTEEN (17) POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON

FITTINGS INCLUDING RESTRAINTS AND HARNESSES. TWELVE (12) POUND 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. 10. PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION LINE SHALL REMAIN VISIBLE. DUEL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE

ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED. WHERE HIGH DEFLECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20-FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATÉ COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE #57 STONE ON BOTH SIDES OF THE HIGH DEFLECTIONS COUPLING OR 5-DEGREE SWEEP, TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING. PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREES (1.5-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEÈTING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR18 OR EQUAL. . WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH

DEFLECTION COUPLINGS AND 5 DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATE AND EXPANSION RETENTION SPRING T ALLOW FOR THE PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.

13. PER THE FIRE SPRINKLER CODE, FOR SINGLE FAMILY DWELLINGS, THE MINIMUM REQUIREMENT IS A 1-1/2" WHO WITH A 1" METER

ccl REVISION LOG

12/2014 COUNTY COMMENTS 01/2015 COUNTY COMMENTS 02/2015 COUNTY COMMENTS 04/2015 ADD SANITARY SEWER TO PLAN SET

10/2015 REVISE WATER FOR REGISEOUS

WATER AND SEWER EXTENSION - PHASE III

LUTHERAN VILLAGE AT MILLER'S GRANT

CONTRACT NO. 24-4894-D TAX MAP 24 GRID 9, PARCEL 1001

ZONE: PSC HOWARD COUNTY, MARYLAND

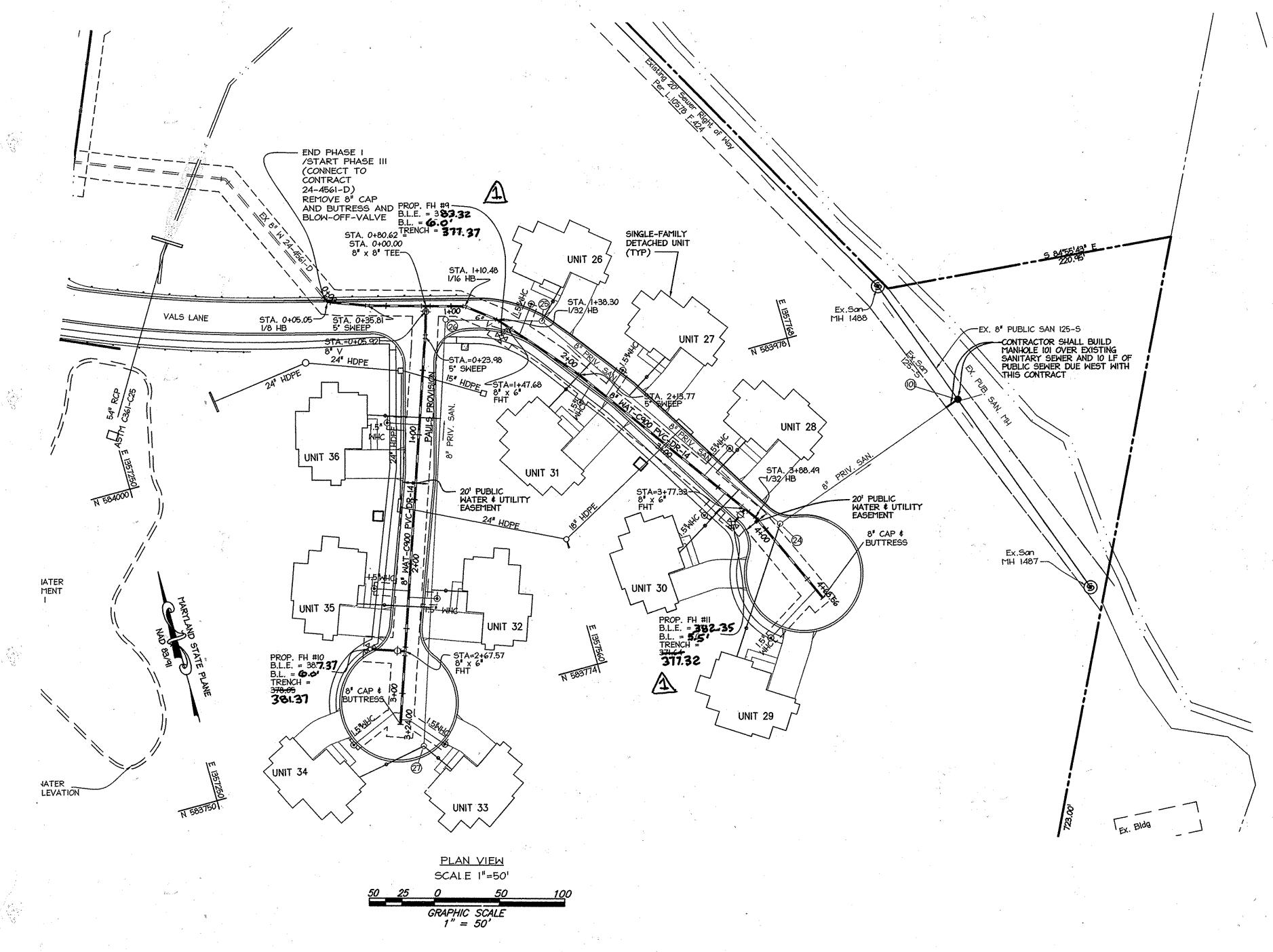
MDC-825(W\$S

SCALE

AS SHOWN

SHEET

1 OF 3



2nd ELECTION DISTRICT

ccl REVISION LOG 12/2014 COUNTY COMMENTS 01/2015 COUNTY COMMENTS 02/2015 COUNTY COMMENTS 04/2015 ADD SANITARY SEWER TO PLAN SET

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND



A Committee of the Comm

						7	_
F MARCO	DES:	DAM					
HAYMON F. M.	DLO.	D/AIVI					
	DRN:	DAM					
200 B						-	
STERE STATE	СНК:	ENJ					
LA CHELLINE	DATE:	JUL, 2014	CHC	1	ADJUST WATER MAIN ELEVATIONS PER GRADING ADJ.	12/1/15	
Mainemen	DAIL.	004, 2014	BY	NO.	REVISION	DATE	
							_

WATER EXTENSION PLAN

600 SCALE MAP NO. <u>24</u> BLOCK NO. <u>9</u>

WATER AND SEWER EXTENSION - PHASE III LUTHERAN VILLAGE

AT MILLER'S GRANT CONTRACT NO. 24-4894-D TAX MAP 24 GRID 9, PARCEL 1001 ZONE: PSC

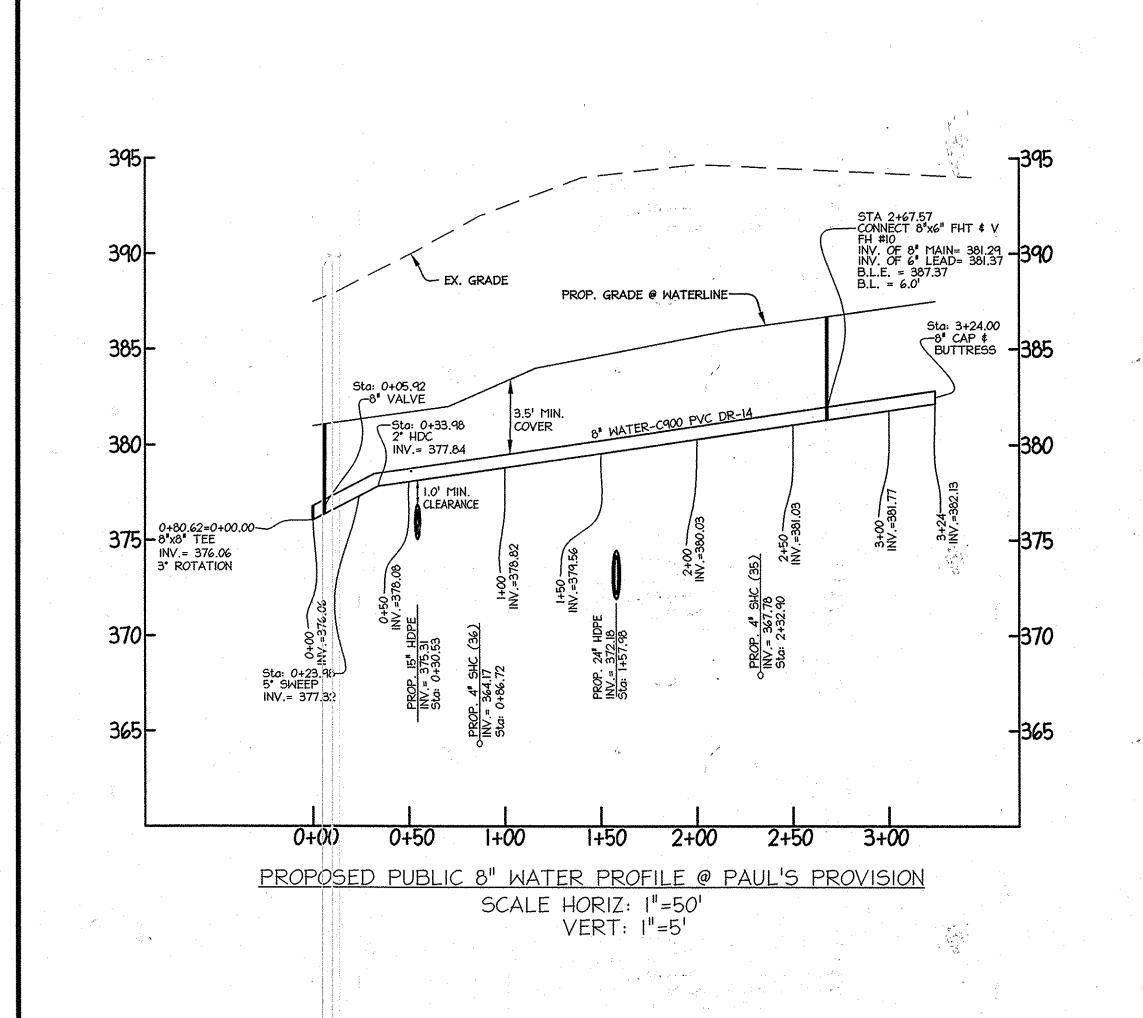
> HOWARD COUNTY, MARYLAND MDC-825(W\$S)

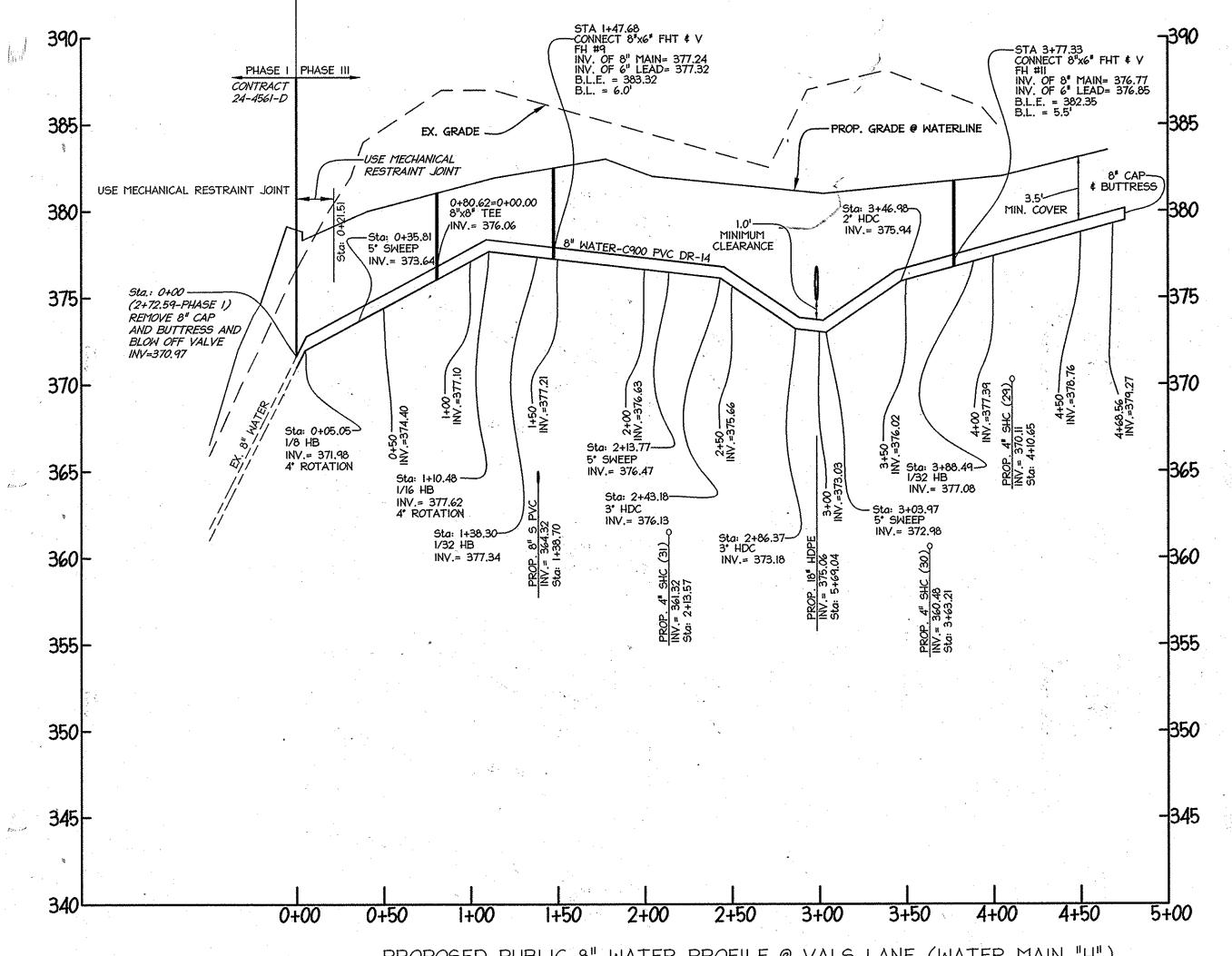
SCALE

SHEET

Chil Edwle 5.29.15
CHIEF, DEVELOPMENT ENGINEERING DIVISION M.G. DATE

christopher Consultants
engineering - surveying - land planning
christopher consultants, ltd.
7172 columbia gateway drive (suite 100) - columbia, md 21048-2990
410.872.8990 - metro 301.891.0148 - fax 410.872.8993





PROPOSED PUBLIC 8" WATER PROFILE @ VALS LANE (WATER MAIN "H") SCALE HORIZ: 1"=50' VERT: 1"=5'

ŧ	(HME)		
RIM	= 376.10		
つづこ	-PR	OP. GRADE	
375	$\lceil \mid \mid \mid \setminus \downarrow \mid$		
370			₹ •
570			
\$ · .	4 ⁸ PVC DHC (TYPE 'B' MH) INV. @ MH = 372.40 (BLDG 30)		
365	5/2.40 (BEBG 30)	PRIVATE PUE	BLIC 7 365
		\	
		DROP MH TI	PE 'B'
360		SMH	360
	INV=362.0	\ 101	
	INV	EX. GRADE	
355	F \\\		- 355
		SEMENT SEMENT	RIM = -352.10
		EASEMI	250
350			- 350
		UTILITY	
345			- 345
34 9		\mathbf{M}	JAJ
		INV=344.43	
340		BUILD DOGHOUSE	- 340
		SAN. CONTRACT # 125-S INV. = 340.48	INV=340.48
	00+00	1+63	
335	<u> </u>		335
			A seek of
PROPO	SED PUBLIC 8" SANITA	ARY PROFILE @	SAN MH#2

PROPUSED PUBLIC 8" SANITARY PROFILE @ SAN MH#2 SCALE HORIZ: 1"=50" VERT: 1"=5'

WATER APPURTENANCE SCHEDULE								
STATION	ROAD (WATER MAIN)	DESCRIPTION	NORTHING	EASTING				
2+72.59=0+00	VAL'S LANE (MAIN "H")	REMOVE 8" CAP AND BUTRESS AND BLOW-OFF-VALVE	584103.57	1357433.16				
0+05.05	VAL'S LANE (MAIN "H")	1/8 8" HB	584098.96	1357435,23				
0+35.81	VAL'S LANE (MAIN "H")	5* SWEEP	584088.00	1357463.97				
0+80.62	VAL'S LANE (MAIN "H") PAUL'S PROVISION	8" x 8" TEE	584075.75	1357507.07				
1+10.48	VAL'S LANE (MAIN "H")	1/16 8ª HB	584067.58	1357535.80				
1+38.30	VAL'S LANE (MAIN "H")	1/32 8* HB	584050.31	1357557.60				
1+47.68	VAL'S LANE (MAIN "H")	8" x 6" FHT & VALVE	584043.17	1357563.68				
2+13.77	VAL'S LANE (MAIN "H")	5° SWEEP	583992.82	1357606,49				
3+77.33	VAL'S LANE (MAIN "H")	8" x 6" FHT ¢ VALVE	583859.45	1357701.19				
3+88.49	VAL'S LANE (MAIN "H")	1/32 8* HB	583850,36	1357707.65				
4+68.56	VAL'S LANE (MAIN "H")	8" CAP AND BUTRESS	583777.28	1357740.38				
0+05.92	PAUL'S PROVISION	8ª VALVE	584071,58	1357505.83				
0+23.98	PAUL'S PROVISION	5° SWEEP	584052.76	1357500,26				
2+67.57	PAUL'S PROVISION	8" x 6" FHT \$ VALVE	583822.73	1357420.12				
3+23.98	PAUL'S PROVISION	8" CAP AND BUTTRESS	583769.43	1357401.63				

		WATER HO	USE CONNECTION SCHEDULE		1
	STATION	ROAD (WATER MAIN)	DESCRIPTION	NORTHING	EASTING
F	1+58.24	VAL'S LANE (MAIN "H")	1.5" FIRE AND DOMESTIC (OUTSIDE)	584022.47	1357561.33
	2+24.94	VAL'S LANE (MAIN "H")	1.5" FIRE AND DOMESTIC (OUTSIDE)	583981.72	1357610.92
	2+39.74	VAL'S LANE (MAIN "H")	1.5° FIRE AND DOMESTIC (OUTSIDE)	583971.02	1357620.82
	3+36.79	VAL'S LANE (MAIN "H")	1.5" FIRE AND DOMESTIC (OUTSIDE)	583890.87	1357675,05
	3+57.88	VAL'S LANE (MAIN "H")	1.5" FIRE AND DOMESTIC (OUTSIDE)	583872.95	1357686.09
	4+60.22	VAL'S LANE (MAIN "H")	1.5" FIRE AND DOMESTIC (OUTSIDE)	583786.36	1357739.35
484	0+92.40	PAUL'S PROVISION	1.5" FIRE AND DOMESTIC (OUTSIDE)	583988.23	1357477.52
	2+20.77	PAUL'S PROVISION	1.5" FIRE AND DOMESTIC (OUTSIDE)	583862.23	1357433.82
	2+25,77	PAUL'S PROVISION .	1,5" FIRE AND DOMESTIC (OUTSIDE)	583859,95	1357433.03
	3+15,39	PAUL'S PROVISION	1.5" FIRE AND DOMESTIC (OUTSIDE)	583774.21	1357403.29
	3+20.39	PAUL'S PROVISION	1.5" FIRE AND DOMESTIC (OUTSIDE)	583772.83	1357402.81

R.	SANIT	ARY STRUCTURE SCHEDULE		
STRUCTURE	ТҮРЕ	REMARKS	NORTHING	EASTING
SMH IOI	4'-0" DIA, MANHOLE	HO, CO, STD, MANHOLE DETAIL NO, G-5.14 (DOGHOUSE)	583897	1357881

AS BUILTS

DATE: 6-23-16

	ccl REVISION LOG	
DATE	REVISION	
12/2014	COUNTY COMMENTS	
01/2015	COUNTY COMMENTS	
02/2015	COUNTY COMMENTS	
04/2015	ADD SANITARY SEWER TO PLAN SET	
12/2015	REVISE WATER FOR RE-GRADE	5 - 4

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION M.G. DATE



Maria and Committee	DES:	DAM	·			
	DRN:	DAM				:
	CHK:	ENJ	1			
	CATE.	UD. 0014	EG	1	REVISE WATER FOR RE-GRADE	12/15
12/14/15	DATE:	JUL, 2014	BY	NO.	REVISION	DATE

			WATER
			MAILR
			PROFILES
·			AND
		X	FITTINGS
•	12/15		
		000 0041 5 1445 110	04 0100161

WATER AND SEWER EXTENSION - PHASE III LUTHERAN VILLAGE AT MILLER'S GRANT CONTRACT NO. 24-4894-D

TAX MAP 24 GRID 9, PARCEL 1001 2nd ELECTION DISTRICT

ZONE: PSC

HOWARD COUNTY, MARYLAND MDC-825(W\$S)