

WATER EXTENSION - PHASE II LUTHERAN VILLAGE AT MILLER'S GRANT

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

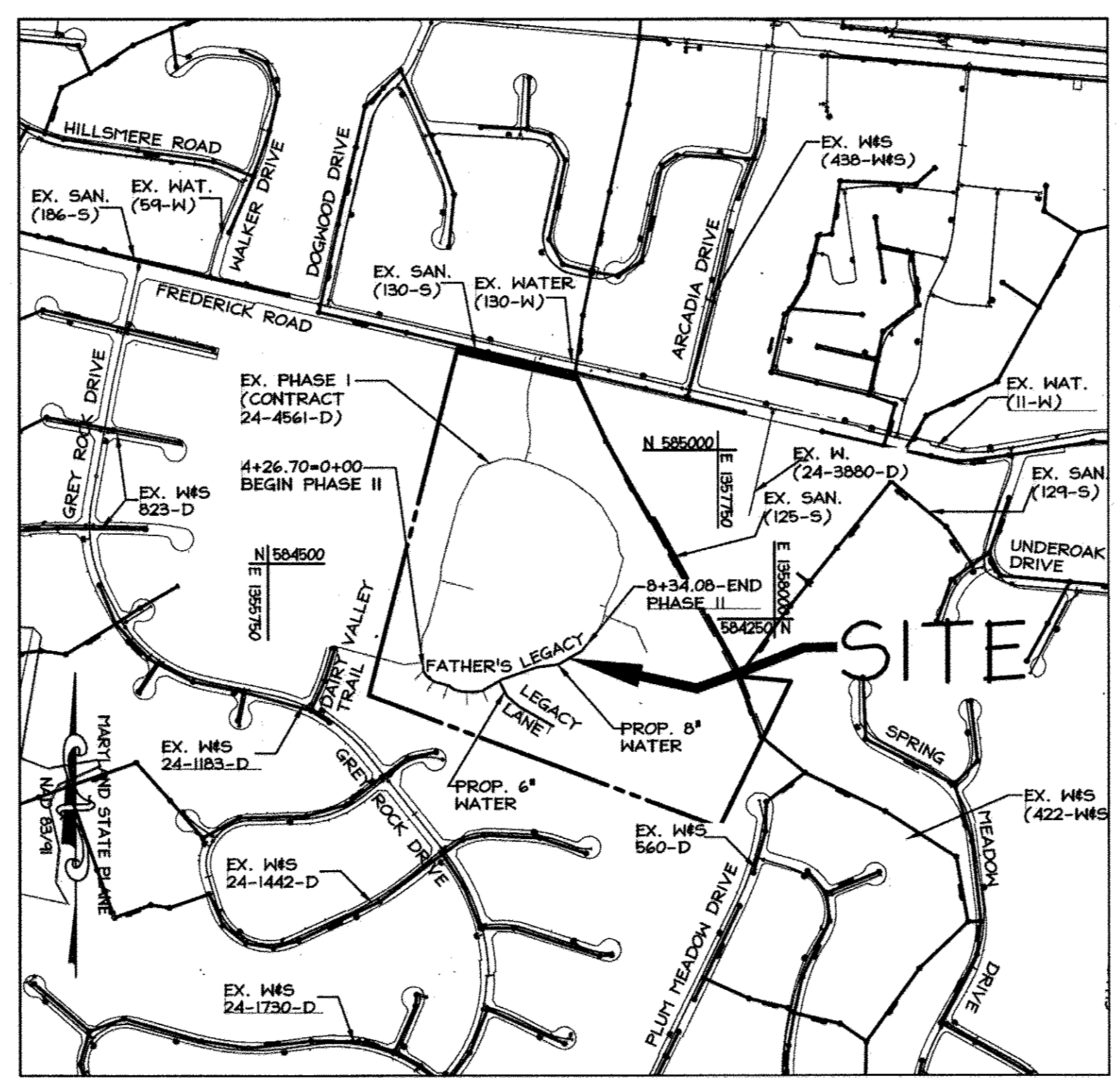
CONTRACT NO. 44-4893-D

SHEET INDEX	
NO.	TITLE
1	COVER SHEET
2	WATER EXTENSION PLAN
3	WATER PROFILES AND FITTINGS

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		MANUFACTURER/SUPPLIER
		QUANTITIES	TYPE	
WATER				
8" WATER-C900 PVC DR-14	834 LF	834 LF	C900 - PVC	North American Pipe
6" WATER-C900 PVC DR-14	361 LF	361 LF	C900 - PVC	North American Pipe
8" x 8" TEE	0	0		
8" x 6" TEE	1	1	DIP	Tyler Union
8" x 8" TS&V	0	0		
8" CAP & BUTTRISS	0	0		
6" CAP & BUTTRISS	1	1	DIP	Tyler Union
8" VALVE	1	1	Gate Valve	AFC
6" VALVE	1	1	Gate Valve	AFC
8"x6" FHT	3	3	DIP	Tyler Union
FIRE HYDRANT	3	3	Hydrant	AFC
1.5" COPPER WMC	217 LF	217	Soft Tubing	Cambridge Lec
8" DIP WMC	0 LF	0		
1/32" 8" VB	1	1	DIP	Tyler Union
1/32" 8" HB	10	10	DIP	Tyler Union
1/16" 8" HB	3	3	DIP	Tyler Union
1/16" 6" HB	0	0		
1/32" 6" HB	1	1	DIP	Tyler Union
5" 6" SWEEP	3	3	DIP	Tyler Union
1" 6" HDC	1	1	DIP	Tyler Union
3" 6" HDC	1	1	DIP	Tyler Union
SEWER				
PUBLIC SEWER MANHOLES	0	0		
8" PVC	0 LF	0		
CHECKBOX				
AS-BUILT DATE				
SURVEY AND DRAFTING DIVISION				

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
UNIT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
17	9061 FATHERS LEGACY		
18	9056 FATHERS LEGACY	7' TO UNIT 18 SEWER	10.6' TO SMH-18
19	9059 FATHERS LEGACY	77' TO UNIT 19 SEWER	78.5' TO SMH-18
20	9061 FATHERS LEGACY	75.5' TO UNIT 19 SEWER	71' TO UNIT 20 SEWER
21	9065 FATHERS LEGACY	9.6' TO UNIT 21 SEWER	41.5' TO 8" VALVE
22	8704 LEGACY LANE	77' TO UNIT 22 SEWER	56.5' TO SMH-16
23	8706 LEGACY LANE	38.5' TO SMH-16	77.5' TO UNIT 23 SEWER
24	8710 LEGACY LANE	13.5' TO UNIT 24 SEWER	38' TO SMH-22
25	8712 LEGACY LANE	30.5' TO UNIT 25 SEWER	52.5' TO SMH-22

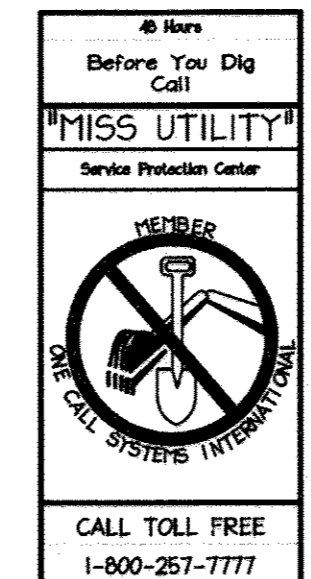
SEWERHOUSE CONNECTION AS-BUILT LOCATION TABLE			
UNIT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
UNIT 18	9056 FATHERS LEGACY	7' TO UNIT 18 WATER	17.5' TO SMH-18
UNIT 19	9059 FATHERS LEGACY	21' TO UNIT 19 WATER	75.5' TO UNIT 20 WATER
UNIT 20	9061 FATHERS LEGACY	21' TO UNIT 20 WATER	23' TO SMH-17
UNIT 21	9065 FATHERS LEGACY	4.5' TO UNIT 21 WATER	38' TO 8" VALVE
UNIT 22	8704 LEGACY LANE	77' TO UNIT 22 WATER	66.5' TO SMH-16
UNIT 23	8706 LEGACY LANE	67.5' TO SMH-16	27.5' TO UNIT 23 WATER
UNIT 24	8710 LEGACY LANE	13.5' TO UNIT 24 WATER	40.5' TO SMH-22
UNIT 25	8712 LEGACY LANE	30.5' TO UNIT 25 WATER	71' TO SMH-22



LOCATION MAP
SCALE: 1"=600'

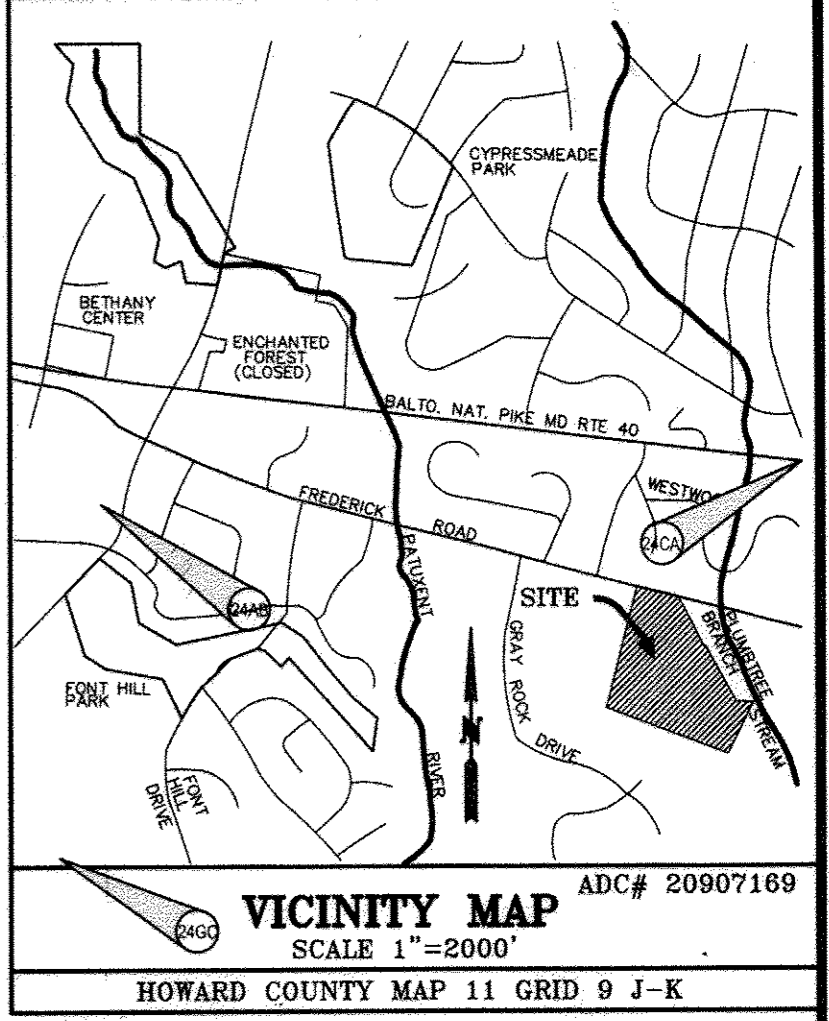
TYPE OF BUILDINGS: RESIDENTIAL
NO. OF UNITS: 9
DRAINAGE AREA: 50.00
TREATMENT PLANT: LITTLE PATUXENT
NUMBER OF W.H.C.: 9
NUMBER OF S.H.C.: N/A - PRIVATE SEWER

OWNER / DEVELOPER
LUTHERAN VILLAGE AT MILLER'S GRANT
C/O CARROLL LUTHERAN VILLAGE
CONTACT: ROY CHAVACCO, EXECUTIVE VICE PRESIDENT
300 SAINT LUKE CIRCLE
WESTMINSTER, MD 21156
(410) 848-0090



CALL TOLL FREE
1-800-267-7777

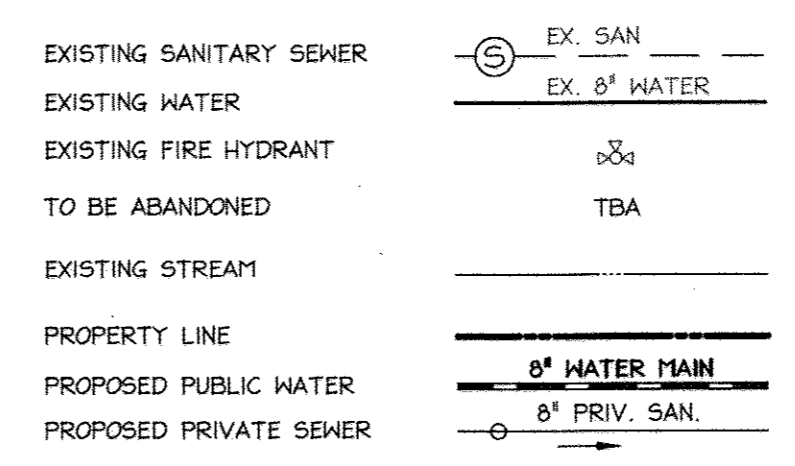
BENCHMARK
HORIZONTAL: MARYLAND NAD83 (ADJ. 991)
VERTICAL: NAVD83
GEODETIC SURVEY CONTROL: 24AB
NORTHING: 565836.919
EASTING: 1361345.55
ELEVATION: 383.214
GEODETIC SURVEY CONTROL: 24CA
NORTHING: 565606.180
EASTING: 1361634.29
ELEVATION: 398.336
GEODETIC SURVEY CONTROL: 24GC
NORTHING: 578668.863
EASTING: 136220.64
ELEVATION: 438.911
DESCRIPTIONS:
STAMPED DISC SET ON 3' DEEP COLUMN
OF CONCRETE



GENERAL NOTES:

- PART I**
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS 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, LTD.
 - 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 ON NAVD 88.
 - 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 MONIES TO 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 (CONSTRUCTION SERVICES).....410-850-4820
BGE (EMERGENCY).....410-685-1400
BUREAU OF UTILITIES.....410-313-4900
COLONIAL PIPELINE CO.....410-795-1390
MISS UTILITY.....1-800-257-7777
STATE HIGHWAY ADMINISTRATION.....410-531-5533
VERIZON.....1-800-743-0033/410-224-8210
 - 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.
 - PHASE II WATER LINE SHALL BE COMPLETE PRIOR TO ISSUANCE OF BUILDING PERMITS FOR WING D OF BUILDING 1000.

LEGEND



WATER ZONE: 550
TEST GRADIENT: 700
COUNTY USE
WATER NO. 130-W
SEWER NO. 130-S
ZONE: PSC

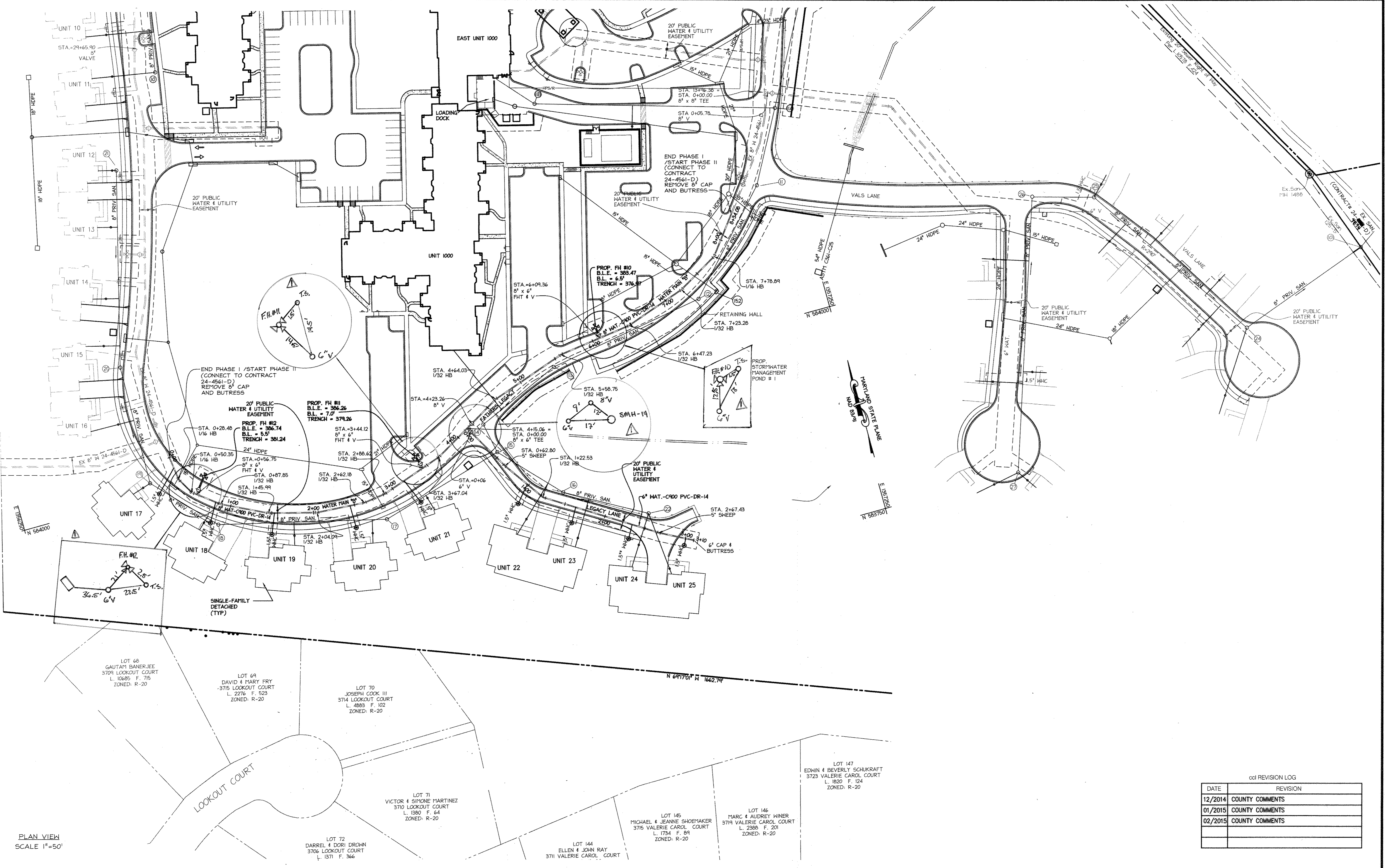
SITE ANALYSIS

- TOTAL AREA OF SITE: 2,178,000 SQ. FT. OR 50.00 ± AC.
- ZONING: PSC
- EXISTING USE: AGRICULTURAL
- PROPOSED USE: AGE RESTRICTED ADULT HOUSING DEVELOPMENT
- BUILDING DATA: MAXIMUM BUILDING HEIGHT ALLOWED: APARTMENTS: 60 FEET OTHER PRINCIPAL STRUCTURES: 34 FEET ACCESSORY STRUCTURES: 15 FEET
- PARKING DATA: 588 SPACES
- IMPERVIOUS AREA: 16.74 AC
- DEED REFERENCE: 1220/554
- RELATED FILES FOR THIS SITE: SDP-08-075
- ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
- TAX MAP: 24, GRID: 9, PARCEL 1001
- AREA OF DISTURBANCE: 37.0 ACRES.
- ALL WATER MAINS SHALL BE AWWA C900 PVC DR-14.
- TOPS OF ALL WATER MAINS SHALL HAVE 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.
- 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.
- PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINTS, THE 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 BELL OF THE PVC PIPE.
- 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 PLATE 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 6-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (PEX) 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 TO 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. PER THE FIRE SPRINKLER CODE, FOR SINGLE FAMILY DWELLINGS, THE MINIMUM REQUIREMENT IS A 1-1/2" WMC WITH A 1" METER OUTSIDE SETTING.

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 BY THE HOWARD SOIL CONSERVATION DISTRICT.
John L. Hunter 4/9/15
HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	christopher consultants engineering - surveying - land planning 1772 GLEBE ROAD, SUITE 100, COLLEGE PARK, MD 20740-3000 410.872.8800 - FAX 410.872.8148 - WWW.CHRCR.COM	DES: DAM DRN: DAM CHK: ENJ DATE: JUL 2014	EGG A As-Built BY NO. DATE	REVISION	DATE	600 SCALE MAP NO. 24 BLOCK NO. 9	WATER EXTENSION - PHASE II LUTHERAN VILLAGE AT MILLER'S GRANT CONTRACT NO. 44-4893-D	SCALE AS SHOWN	SHEET 1 OF 3
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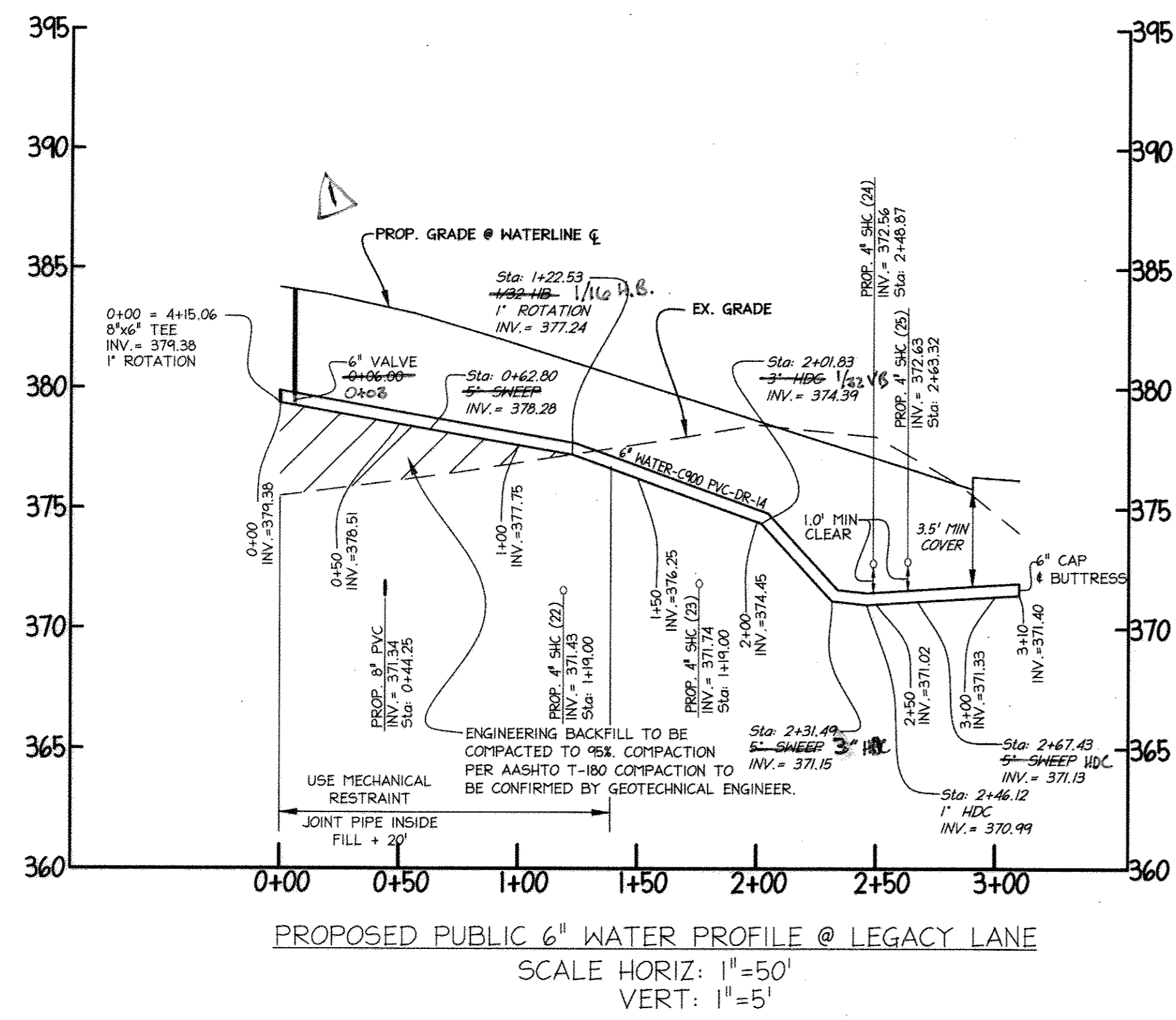


PLAN VIEW
SCALE 1"=50'

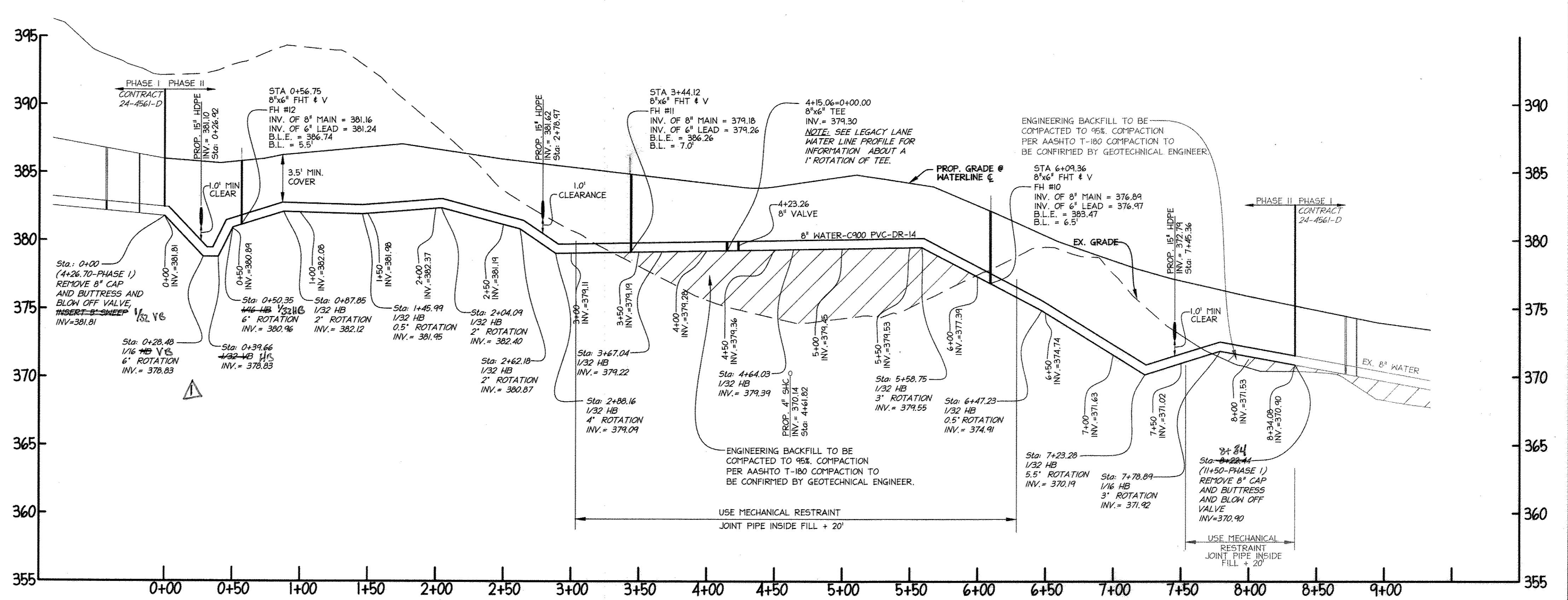
cdl REVISION LOG

DATE	REVISION
12/2014	COUNTY COMMENTS
01/2015	COUNTY COMMENTS
02/2015	COUNTY COMMENTS

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND 	 christopher consultants <small>engineering - surveying - land planning</small> <small>christopher consultants, inc.</small> <small>712 columbia gateway drive suite 100, columbia, md 21040-2900</small> <small>410.328.0000 • fax 410.328.0100 • www.christopher.com</small>	DES: DAM					WATER EXTENSION PLAN	WATER EXTENSION - PHASE II LUTHERAN VILLAGE AT MILLER'S GRANT CONTRACT NO. 44-4893-D TAX MAP 24 GRID 9, PARCEL 1001 2nd ELECTION DISTRICT	SCALE 1"=50'
			CHK: ENJ	DATE: JUL 2014	BY: EEL	NO: 1	REVISION: AS-BUILTS			DATE: 6/26/15



PROPOSED PUBLIC 6" WATER PROFILE @ LEGACY LANE
SCALE HORIZ: 1"=50'
VERT: 1"=5'



PROPOSED PUBLIC 8" WATER PROFILE @ FATHER'S LEGACY (WATER MAIN "B")
SCALE HORIZ: 1"=50'
VERT: 1"=5'

WATER APPURTENANCE SCHEDULE				
STATION	ROAD (WATER MAIN)	DESCRIPTION	NORTHING	EASTING
4+26.70 = 0+00	FATHER'S LEGACY (MAIN "B")	REMOVE 6" CAP AND BUTTRESS	584055.51	1356435.80
0+20.40	FATHER'S LEGACY (MAIN "B")	1/16 6" HB	584000.74	1356444.00
0+50.35	FATHER'S LEGACY (MAIN "B")	1/16 6" HB	583991.51	1356454.76
0+56.75	FATHER'S LEGACY (MAIN "B")	8"x6" FHT & VALVE	583985.92	1356460.04
0+87.85	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	583967.02	1356464.74
1+45.99	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	583948.30	1356456.92
2+04.01	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	583926.41	1356493.05
2+62.18	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	583922.49	1356465.08
2+86.62	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	583926.17	1356477.24
3+44.12	FATHER'S LEGACY (MAIN "B")	8"x6" FHT & VALVE	583944.08	1356729.77
3+67.04	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	583951.47	1356751.46
4+15.06	FATHER'S LEGACY (MAIN "B") LEGACY LANE	8" x 6" TEE	583975.54	1356793.02
4+23.26	FATHER'S LEGACY (MAIN "B")	6" VALVE	583974.65	1356800.12
4+64.03	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	584000.08	1356835.39
5+58.75	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	584030.44	1356825.05
6+09.36	FATHER'S LEGACY (MAIN "B")	8"x6" FHT & VALVE	584037.31	1356875.22
6+47.23	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	584042.30	1357002.76
7+23.28	FATHER'S LEGACY (MAIN "B")	1/32 6" HB	584046.84	1357084.74
7+78.89	FATHER'S LEGACY (MAIN "B")	1/16 6" HB	584094.70	1357322.86
8+34.08=1+90	FATHER'S LEGACY (MAIN "B")	REMOVE 6" CAP AND BUTTRESS	584158.54	1357666.40

WATER APPURTENANCE SCHEDULE				
STATION	ROAD (WATER MAIN)	DESCRIPTION	NORTHING	EASTING
0+06.00	LEGACY LANE	6" VALVE	583970.34	1356796.03
0+62.00	LEGACY LANE	5" SNEEP	583920.62	1356824.82
1+22.53	LEGACY LANE	1/32 6" HB	583872.28	1356658.76
2+67.43	LEGACY LANE	5" SNEEP	583794.58	1356481.07
3+10.00	LEGACY LANE	6" CAP & BUTTRESS	583774.97	1357010.85

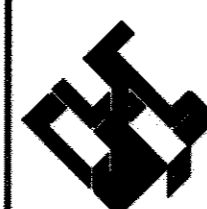
WATER HOUSE CONNECTION SCHEDULE				
STATION	ROAD (WATER MAIN)	DESCRIPTION	NORTHING	EASTING
0+13.47	FATHER'S LEGACY (MAIN "B")	1.5" FIRE AND DOMESTIC (OUTSIDE)	584023.61	1356442.22
0+81.36	FATHER'S LEGACY (MAIN "B")	1.5" FIRE AND DOMESTIC (OUTSIDE)	583970.97	1356479.58
1+57.17	FATHER'S LEGACY (MAIN "B")	1.5" FIRE AND DOMESTIC (OUTSIDE)	583939.53	1356543.56
2+44.55	FATHER'S LEGACY (MAIN "B")	1.5" FIRE AND DOMESTIC (OUTSIDE)	583923.82	1356433.43
3+16.48	FATHER'S LEGACY (MAIN "B")	1.5" FIRE AND DOMESTIC (OUTSIDE)	583905.22	1356703.74
0+82.24	LEGACY LANE	1.5" FIRE AND DOMESTIC (OUTSIDE)	583892.17	1356844.80
1+63.42	LEGACY LANE	1.5" FIRE AND DOMESTIC (OUTSIDE)	583860.35	1356893.27
2+34.06	LEGACY LANE	1.5" FIRE AND DOMESTIC (OUTSIDE)	583802.40	1356952.90
3+00.46	LEGACY LANE	1.5" FIRE AND DOMESTIC (OUTSIDE)	583774.36	1357010.41

REVISION LOG

DATE	REVISION
12/2014	COUNTY COMMENTS
01/2015	COUNTY COMMENTS
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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND



christopher consultants
engineering - surveying - land planning
christopher consultants, inc.
7170 columbia gateway drive suite 1000 - coltsville, md 21048-2000
410.232.3800 - fax: 410.232.3801



DES: DAM
DRN: DAM
CHK: ENJ
DATE: JUL 2014

BY	NO.	REVISION	DATE
CEG	1	AS-BUILTS	7/14/15

WATER
PROFILES
AND
FITTINGS

WATER EXTENSION - PHASE II
**LUTHERAN VILLAGE
AT MILLER'S GRANT**
CONTRACT NO. 44-4893-D

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

ZONE: PSC
HOWARD COUNTY, MARYLAND

SCALE
1" = 50'
SHEET
3 OF 3