GENERAL NOTES

- 1. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR EXPENSE.
- 2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OCTOBER, 2001 BY KCI TECHNOLOGIES,
- 3. 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. 38AA

ALL VERTICAL CONTROLS ARE BASED ON NAVD88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE IRON BARS.

- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 5. 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. ANY COST INCURRED BY THE OWNER FOR THE 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
- 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, 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.
- 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY 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.
- 8. 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 BG&E (CONTRACTOR SERVICES)......410-850-4620 BG&E - (EMERGENCY)......410-685-1400 BUREAU OF UTILITIES (DPW)......410-313-4900 VERIZON. 1-800-743-0033 / 410-224-9210 COLONIAL PIPELINE CO.410-795-1390 MISS UTILITY1-800-257-7777 STATE HIGHWAY ADMINISTRATION410-531-5533

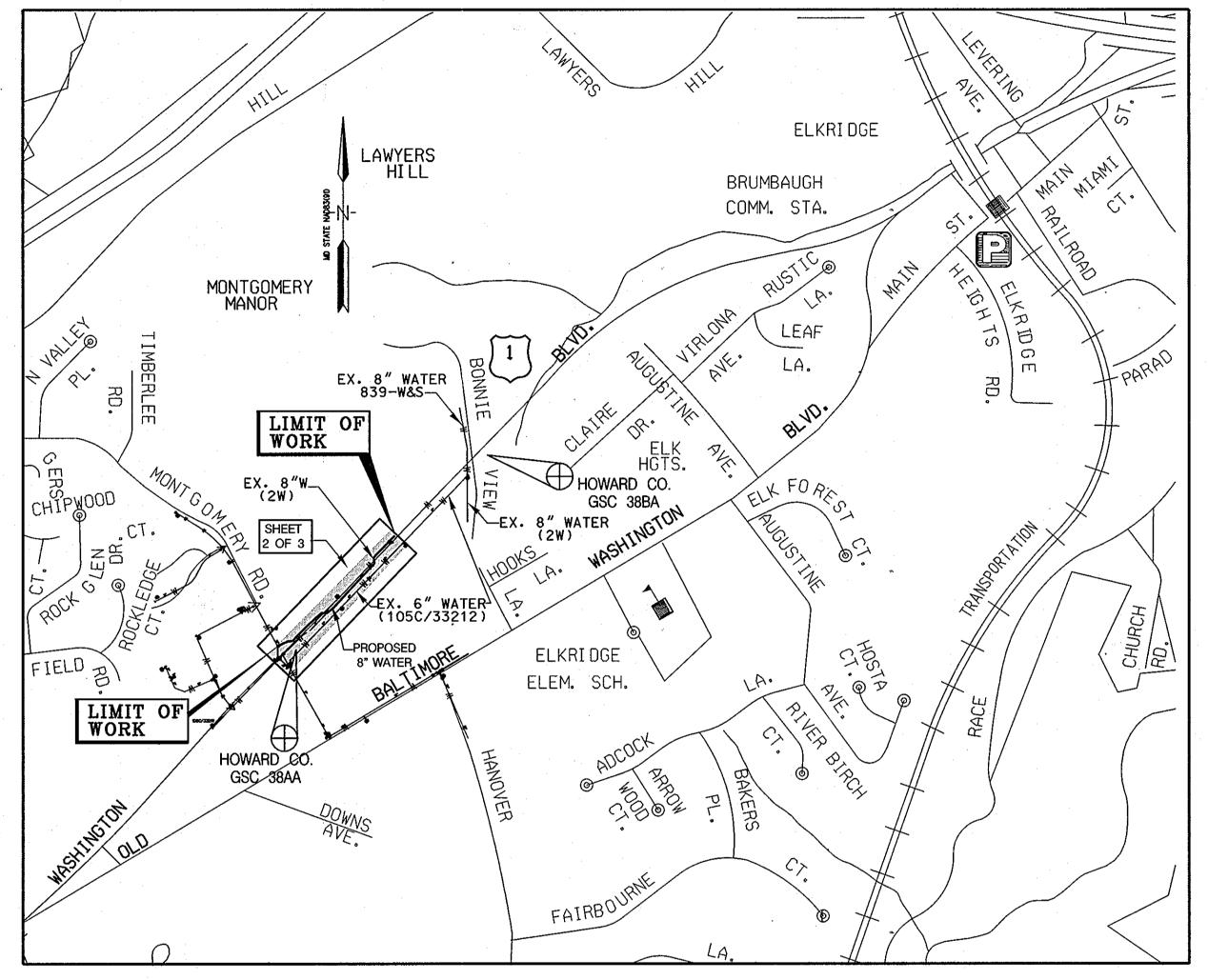
and the same of

- 9. 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.
- 10. 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 .
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD 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.
- 12. EXCEPT AS INDICATED ON THE PLANS AND NOTED HEREIN, ALL PUBLIC WATER MAINS SHALL BE POLYVINYLCHLORIDE (PVC) PIPE MEETING THE REQUIREMENTS OF AWWA C900 DR18, PRESSURE CLASS 150 AND THE HOWARD COUNTY DESIGN MANUAL VOLUME IV- STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND ALL SUBSEQUENT AMENDMENTS THERETO.
- 13. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- 14. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 15. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 16. FIRE HYDRANTS SHALL BE SET TO 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.
- 17. ALL FIRE HYDRANT LEADS INCLUDING THE TEE SHALL BE DUCTILE IRON CLASS 54 MEETING THE REQUIREMENTS OF AND CONSTRUCTED IN ACCORDANCE WITH THE HOWARD
- COUNTY DESIGN MANUAL VOLUME IV- STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. 18. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE VARIOUS RESIDENTS AND COORDINATING HIS WORK ACTIVITIES SO AS NOT TO NEGATIVELY IMPACT CONNECTED CUSTOMERS. THE REHABILITATION OF WATER MAIN SHALL CAUSE A MINIMUM DISTURBANCE TO THE EXISTING RESIDENTS AND NOTIFICATION TO THE RESIDENTS OF ANY "INTERRUPTION OF SERVICE' SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COUNTY REQUIRES THAT THE CONTRACTOR NOTIFY EACH RESIDENTS AFFECTED BY LETTER OR DOOR TAGS OF THE IMPENDING SERVICE INTERRUPTION AT LEAST 72 HOURS IN ADVANCE OF THE PLANNED INTERRUPTION.
- 20. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF UTILITIES HOWARD COUNTY, 15 DAYS PRIOR TO WATER MAIN SHUT DOWNS.
- 21. THE CONTRACTOR SHALL RETURN ALL SALVAGED FIRE HYDRANTS, FRAMES AND COVERS, VALVES,
- ROADWAY BOXES TO THE BUREAU OF UTILITIES AT 8250 MONTGOMERY RD. COLUMBIA. MD 21045. 22. THE CONTRACTOR SHALL PROVIDE SURVEY CONSTRUCTION STAKEOUT FOR ALL NECESSARY LINES, GRADES AND ELEVATION OF THE PROPOSED FACILITIES.
- 23.ALL VALVES SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS. SEE STANDARD DETAILS FOR ROADWAY VALVE BOX DIMENSIONS AND VALVE KEY EXTENSIONS.
- 24.ALL WATER HOUSE CONNECTIONS (WHC) SHALL BE FOR OUTSIDE METER SETTINGS.
- 25. ALL WATER HOUSE CONNECTIONS SHALL BE COPPER MEETING THE REQUIREMENTS OF AND CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV-
- STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 26. ALL WATER MAINS CONSTRUCTED IN FILL AREAS SHALL BE RESTRAINED DUCTILE IRON PIPE CLASS 54 MEETING THE REQUIREMENTS OF AND CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV- STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- 27. ALL WATER MAINS WITH CASING PIPE SHALL BE RESTRAINED DUCTILE IRON PIPE CLASS 54 MEETING THE REQUIREMENTS OF AND CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV- STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- 28. THE FOLLOWING NOTE IS ADDED TO HOWARD COUNTY STANDARD DETAIL W2.22, BUTRESS AND ANCHORAGE FOR VERTICAL BENDS. "WHEN ANCHORING PVC PIPE THE STRAPPING IN CONTACT WITH THE PIPE SURFACE SHALL BE 1" WIDE BY 1/4" THICK STEEL. THE REMAINING PORTION OF THE STRAP SHALL BE REINFORCING BAR SIZED IN ACCORDANCE WITH THE PERTINENT CHART SHOWN ON THE DETAIL.

US ROUTE 1 WATER MAIN REPLACEMENT HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECT No. W-8205 CONTRACT NO. 44-4019



LOCATION

SCALE: 1"- 600'

TYPE OF BUILDING: COMMERCIAL NUMBER OF PARCELS:

NUMBER OF WATER HOUSE CONNECTIONS: 9 DRAINAGE AREA: PATAPSCO RIVER PRESSURE ZONE: 400 WATER CODE (FOR COUNTY USE ONLY): HYDROSTATIC TEST GRADIENT: 550

HOWARD COUNTY GEODETIC SURVEY CONTROL NAD83(91) (HORIZONTAL)

NO. 38AA NAVD88 (VERTICAL) N 561158.784 E 1389726.39 ELEV. 220.028

NO. 38BA N 562553.278 E 1390967.927 ELEV. 166.194

INDEX OF SHEETS DESCRIPTION SHEET No. 1 TITLE SHEET 28" WATER MAIN PLAN AND PROFILE 3 EROSION & SEDIMENT CONTROL, NOTES & DETAILS

QUANTITIES						
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER		
8" AWWA C900 PVC WATER	L.F.	1Ø55	1,079	BELAIR RD. SUPPLY NATIONAL		
12" AWWA C900 PVC WATER	Ļ.F.	37	15	NATIONAL		
12" GATE VALVE	EA.	3	3	MUELLER CO.		
8" GATE VALVE	EA.	2	2	MUELLER CO.		
6" WATER DIP	L.F.	33	32	U.S. PIPE		
6" F.H.	EA.	2	2	MUELLER CO.		
6" VALVE	EA.	2	2	MUELLER CO.		
3/4" W.H.C COPPER	L.F.	15	4	READING		
1" W.H.C COPPER	L.F.	65	43	READING		
1-1/2" W.H.C COPPER	L.F.	26	5	READING		
4" W.H.C DIP	L.F.	38	32	U.S. PIPE		

NAME OF UTILITY CONTRACTOR:	DACO CONSTRUCTION CO.
	CHECKBOX
	AS-BUILT DATE:
	SURVEY AND DRAFTING DIVISION

LEGEND

DECIDUOUS TREE CONFEROUS TREE TRAVERSE POINT PROPOSED WATER MAIN PROPOSED FIRE HYDRANT

PROPOSED VALVE

PROPOSED WATER HOUSE CONNECTION

— SF —— SILT FENCE -LOD- LIMIT OF DISTURBANCE

CONTINUITY TEST STATION PAVEMENT AREA TO BE MILLED AND OVERLAYED

啜	EXISTING FIRE HYDRANT
#	EXISTING VALVE
—w——w—	EXISTING WATER MAIN
_c c	EXISTING GAS MAIN
-cc	EXISTING BURIED SERVICE CABLE WIRE
—OH——ОН	EXISTING OVERHEAD SERVICE
-66	EXISTING SEWER

-E-E-EXISTING BURIED ELECTRIC

SOIL BORING

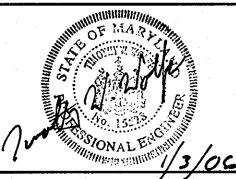


BLOCK NO. 27-37

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF, UTILITY DESIGN DIVISION

CONSTRUCTION MANAGERS



· · · · · · · · · · · · · · · · · · ·				
Man	DES:	GW		
	DRN:	KJ		
Thinnanas	снк:	TWY		
1/3/06	DATE:	12/		

LN | A AS BUILT BY NO. REVISION DATE 600' SCALE MAP NO. _____38____

SHEET

AS-BUILT

WATER MAIN REPLACEMENT CAPITAL PROJECT No. W-8205 CONTRACT No. 44-4019

US ROUTE 1

ELECTION DISTRICT NO.1 HOWARD COUNTY, MARYLAND

SHEET

AS SHOWN

TECHNOLOGIES

HUNT VALLEY, MD 21030 PHONE: (410) 316-7800 Fax: (410) 316-7817

10 North Park Drive

