

PROPERTY OWNER LEGEND

- A** SMITA PATEL, CHATURBHAI PATEL
9575 WHISKEY BOTTOM RD.
MAP# 0047, PARCEL# 0922
- B** ERNEST W. REED JR.
9569 WHISKEY BOTTOM RD.
MAP# 0047, PARCEL# 0913 (LOT 9)
- C** MILTON FLORES, ELSA FLORES
9565 WHISKEY BOTTOM RD.
MAP# 0047, PARCEL# 0913 (LOT 10)
- D** RAY HICKS
9535 WHISKEY BOTTOM RD.
MAP# 0047, PARCEL# 0171 (LOT 5)
- E** CLARY MICHAEL BLUE, SHERRY D. BLUE
9522 OLD LANTERN WAY
MAP# 0047, PARCEL# 0928
- F** GEORGE WHITE, GERALDINE WHITE, TRUSTEE
9573 WHISKEY BOTTOM RD.
MAP# 0047, PARCEL# 0922 (LOT 12)
- G** ANA BLANCO LOGSDON, THOMAS LOGSDON
9571 WHISKEY BOTTOM RD.
MAP# 0047, PARCEL# 0913 (LOT 11)

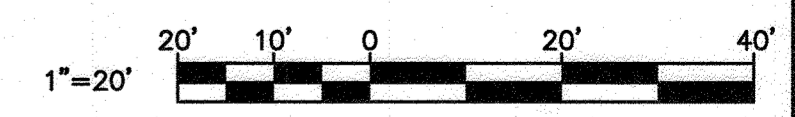
LEGEND:

- DETECTABLE WARNING SURFACE
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- FULL DEPTH PAVEMENT
- POROUS CONCRETE SIDEWALK

NOTE:

REMOVE AND REPLACE FIRE HYDRANT (REFER TO DETAIL W-1.11 FOR PLACEMENT BEHIND SIDEWALK).

AS-BUILT



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

4/13/23
DATE

03-30-23
DATE

CHIEF, BUREAU OF ENGINEERING

CHIEF, BUREAU OF UTILITIES

CHIEF, UTILITY DESIGN DIVISION

Howard County
MARYLAND

Bureau of Engineering
7125 Riverwood Drive, Suite B
Columbia, Maryland 21046
(410) 313-2040

DES:	BY:	NO.:	REVISION:	DATE:
SRK				

DRN:	BY:	NO.:	REVISION:	DATE:
KMT				

CHK:	BY:	NO.:	REVISION:	DATE:
SRK				

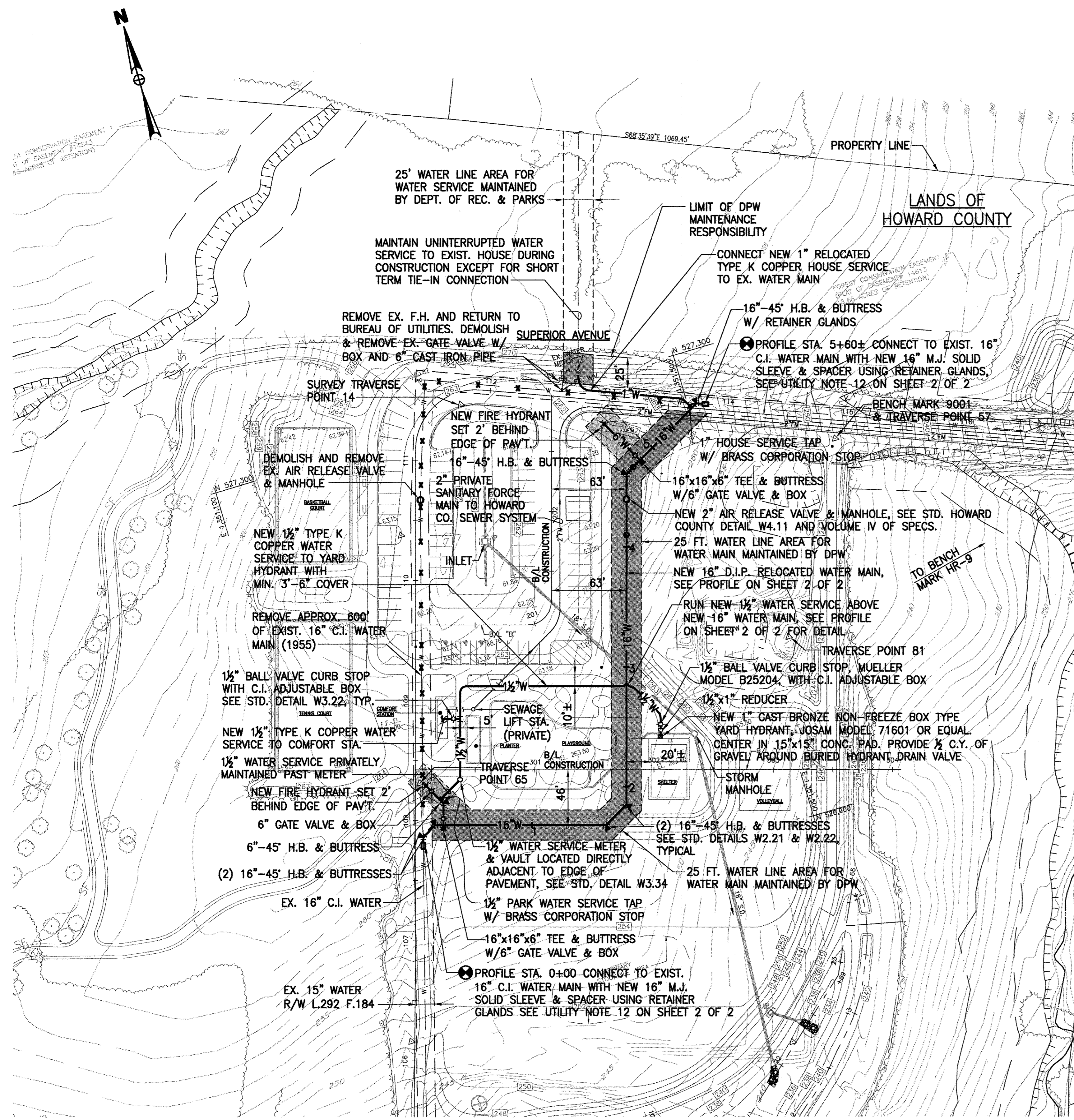
DECEMBER, 2022

FIRE HYDRANT RELOCATION PLAN

PROJECT NO. K-5061-52C/W8602
CONTRACT NO. 1-W ADD 1
**WHISKEY BOTTOM ROAD
FIRE HYDRANT RELOCATION**

600' SCALE MAP NO. 29 BLOCK NO. 12 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN
SHEET NO. 01 OF 01



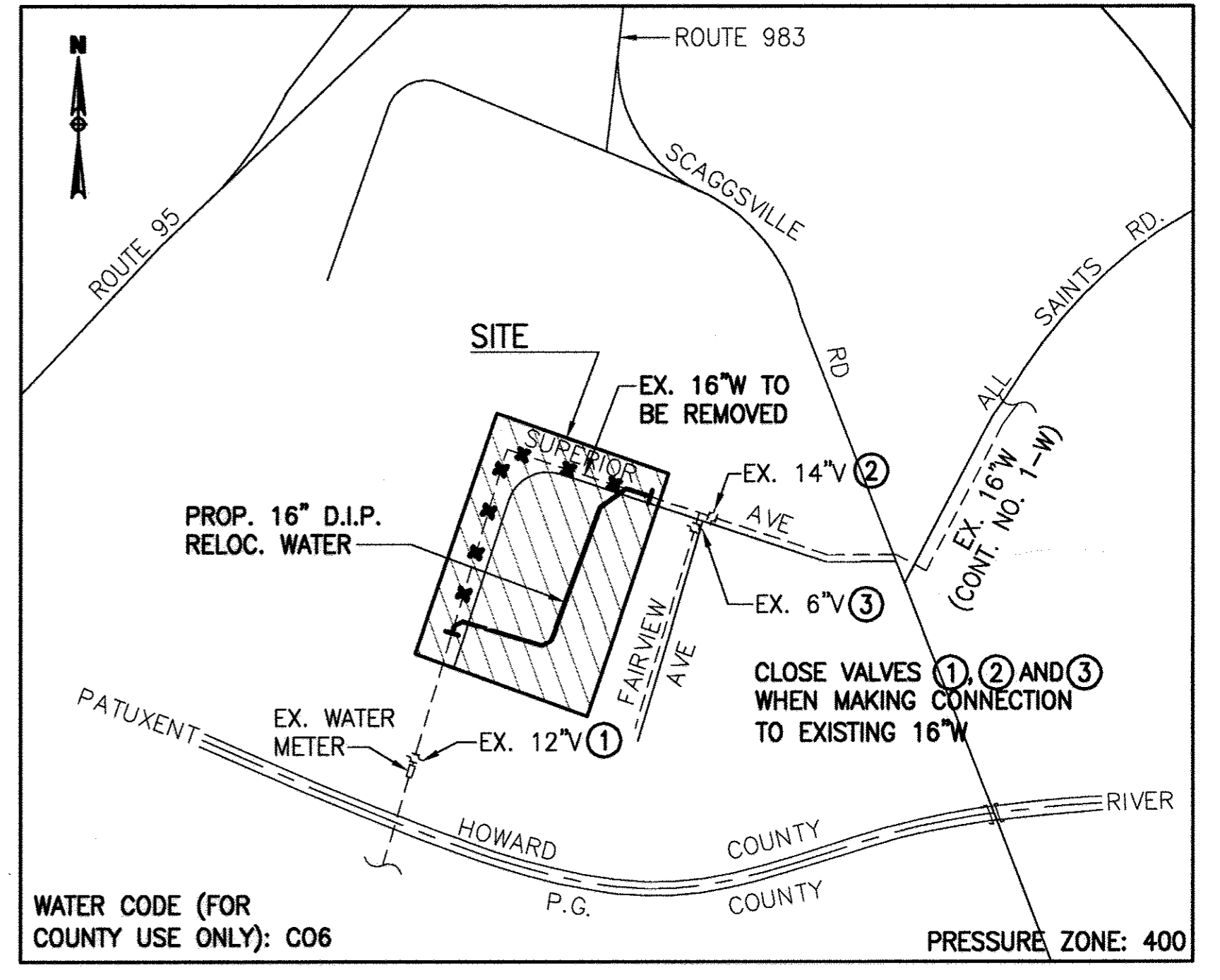
PLAN
SCALE: 1"=50'

CONSTR. NOTES

1. AVOID WORKING WITHIN THE FOREST CONSERVATION EASEMENT SHOWN ON CIVIL DRAWINGS. THIS PERTAINS TO BOTH PERMANENT AND TEMPORARY WORK.

NEW WORK LEGEND

- 16"W WATER MAIN
- THRUST BLOCK
- F.H. FIRE HYDRANT
- WATER VALVE & BOX
- FIELD CONNECT TO EXISTING PIPE
- WATER MANHOLE OR VAULT
- CORPORATION STOP
- YARD HYDRANT
- M.J. MECHANICAL JOINT
- C.I. CAST IRON
- D.I.P. DUCTILE IRON PIPE
- H.B. HORIZONTAL BEND



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

1. 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.
2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 83 / 91.
3. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
5. CLEAR ALL UNDERGROUND UTILITIES BY MINIMUM OF 12 INCHES, AND ALL POLES BY MINIMUM OF 5'. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF POLES OR DAMAGE SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
6. 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.
7. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD OF EXISTING WATER MAIN CONNECTIONS AND OTHER EXISTING UTILITIES CROSSED OR IN THE VICINITY BY DIGGING TEST PITS AT LEAST TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - AT&T1-800-252-1133
 - BGE (CONTRACTOR SERVICES).....410-850-4620
 - BGE (UNDERGROUND DAMAGE CONTROL).....410-787-9068
 - 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 / 410-224-9210
9. TREES AND SHRUBS SHALL 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. 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.
11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAY, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OF ANY COUNTY ROAD FOR LAYING WATER 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.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John J. O'Hara 10/20/04
DIRECTOR OF PUBLIC WORKS
DATE

Robert J. O'Hara 10/19/04
CHIEF, BUREAU OF UTILITIES
DATE

PREPARED BY
URS
4 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
TEL: (410) 785-7220

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TEL: (410) 785-7220

DES: RER

DRN: JES/CLD

CHK: DTM/RKK

DATE: 8/11/04

BY NO. REVISION DATE

600 SCALE MAP NO. 50 BLOCK NO. 1

Modifications To
CONTRACT NO. 1-W
Drawing No. 16 of 25

HIGH RIDGE PARK
6TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
CAPITAL PROJECT NO. N-3104

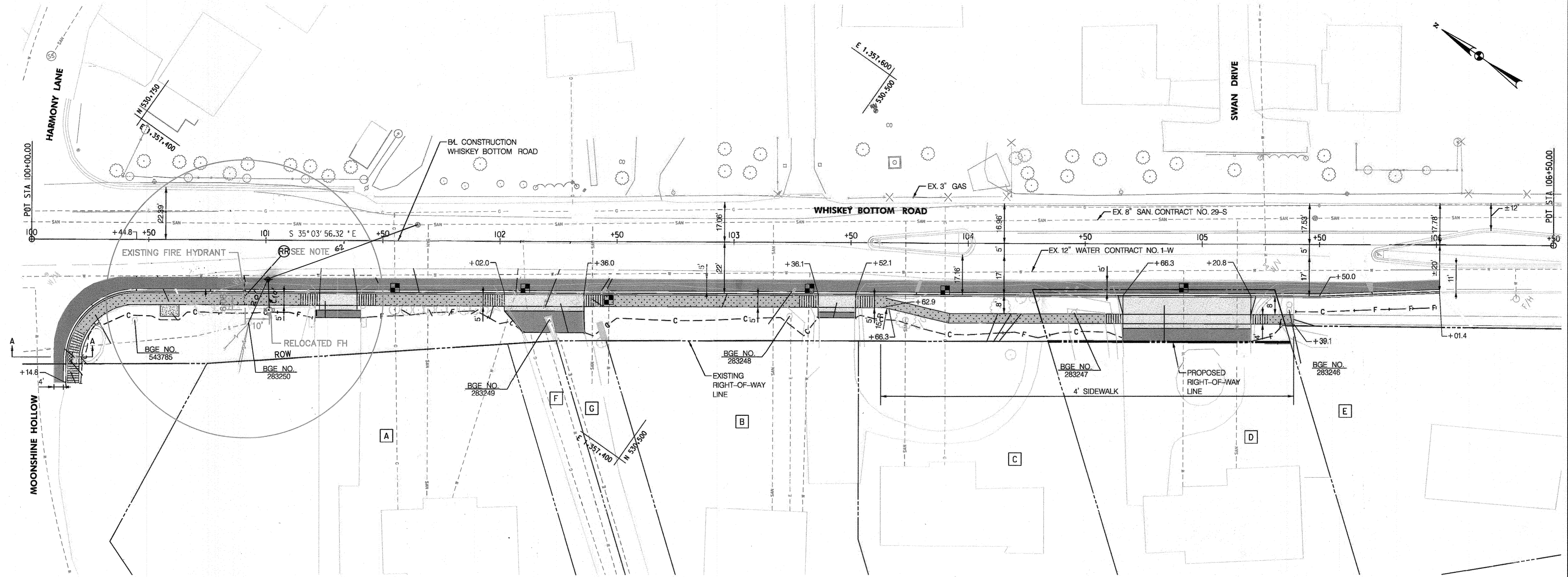
16" WATER MAIN RELOCATION

SCALE

SHEET 1 OF 2

AS BUILT

16a



PROPERTY OWNER LEGEND

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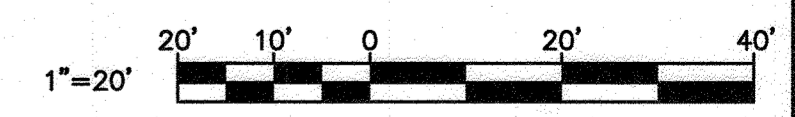
LEGEND:

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NOTE:

REMOVE AND REPLACE FIRE HYDRANT (REFER TO DETAIL W-1.11 FOR PLACEMENT BEHIND SIDEWALK).

AS-BUILT



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HOWARD COUNTY, MARYLAND

4/13/23
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CHIEF, BUREAU OF ENGINEERING

CHIEF, BUREAU OF UTILITIES

CHIEF, UTILITY DESIGN DIVISION

Howard County
MARYLAND

Bureau of Engineering
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Columbia, Maryland 21046
(410) 313-2040

DES:	SRK	BY	NO.	REVISION	DATE
DRN:	KMT				
CHK:	SRK				
SIGN DATE:					

SRK	1	AS-BUILT	12/22
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DECEMBER, 2022

FIRE HYDRANT RELOCATION PLAN

600' SCALE MAP NO. 29

PROJECT NO. K-5061-52C/W8602
CONTRACT NO. 1-W ADD 1

**WHISKEY BOTTOM ROAD
FIRE HYDRANT RELOCATION**

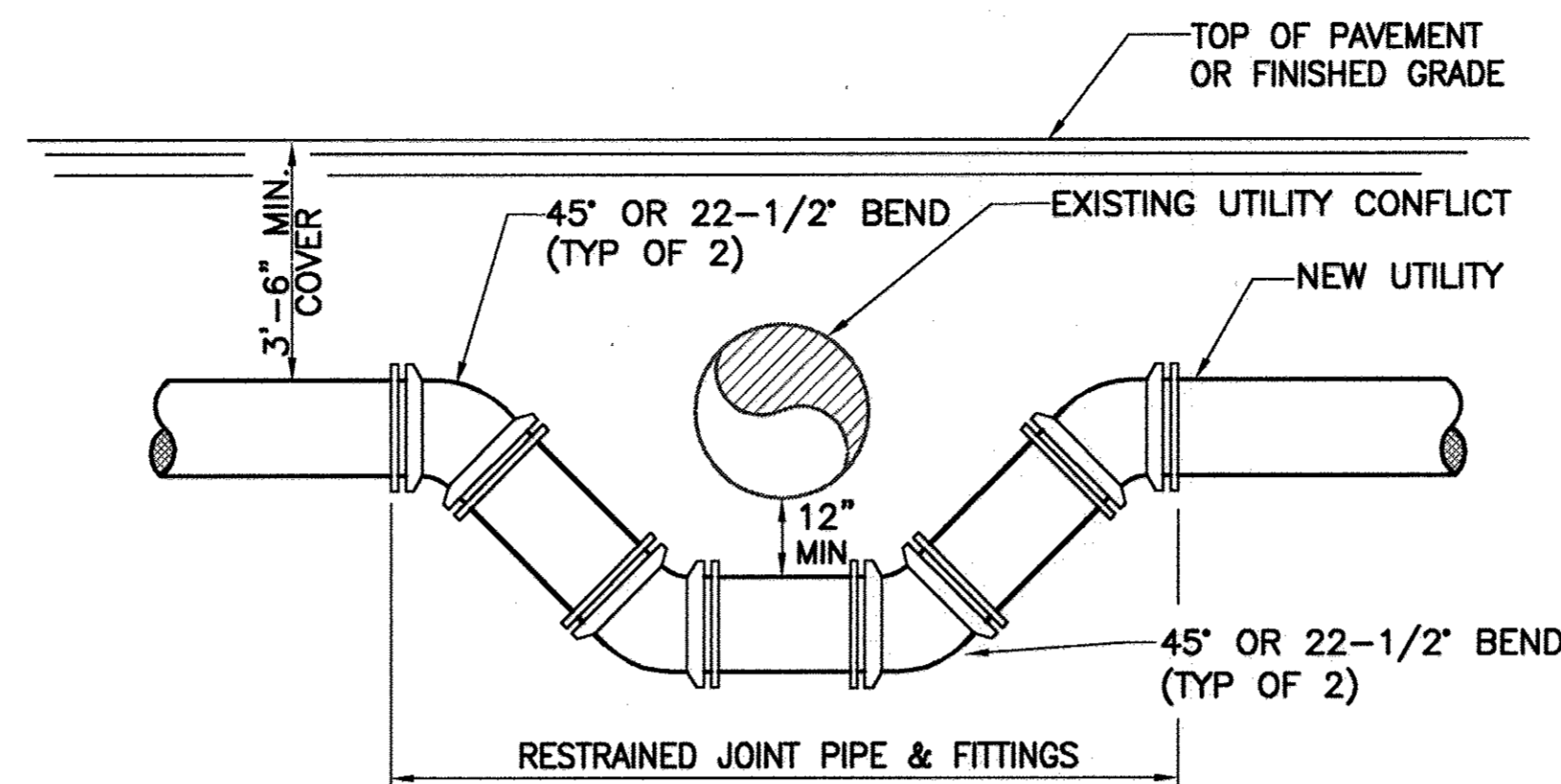
SCALE
AS SHOWN

SHEET NO.
01 OF 01

ELECTION DISTRICT NO. 6
HOWARD COUNTY, MARYLAND

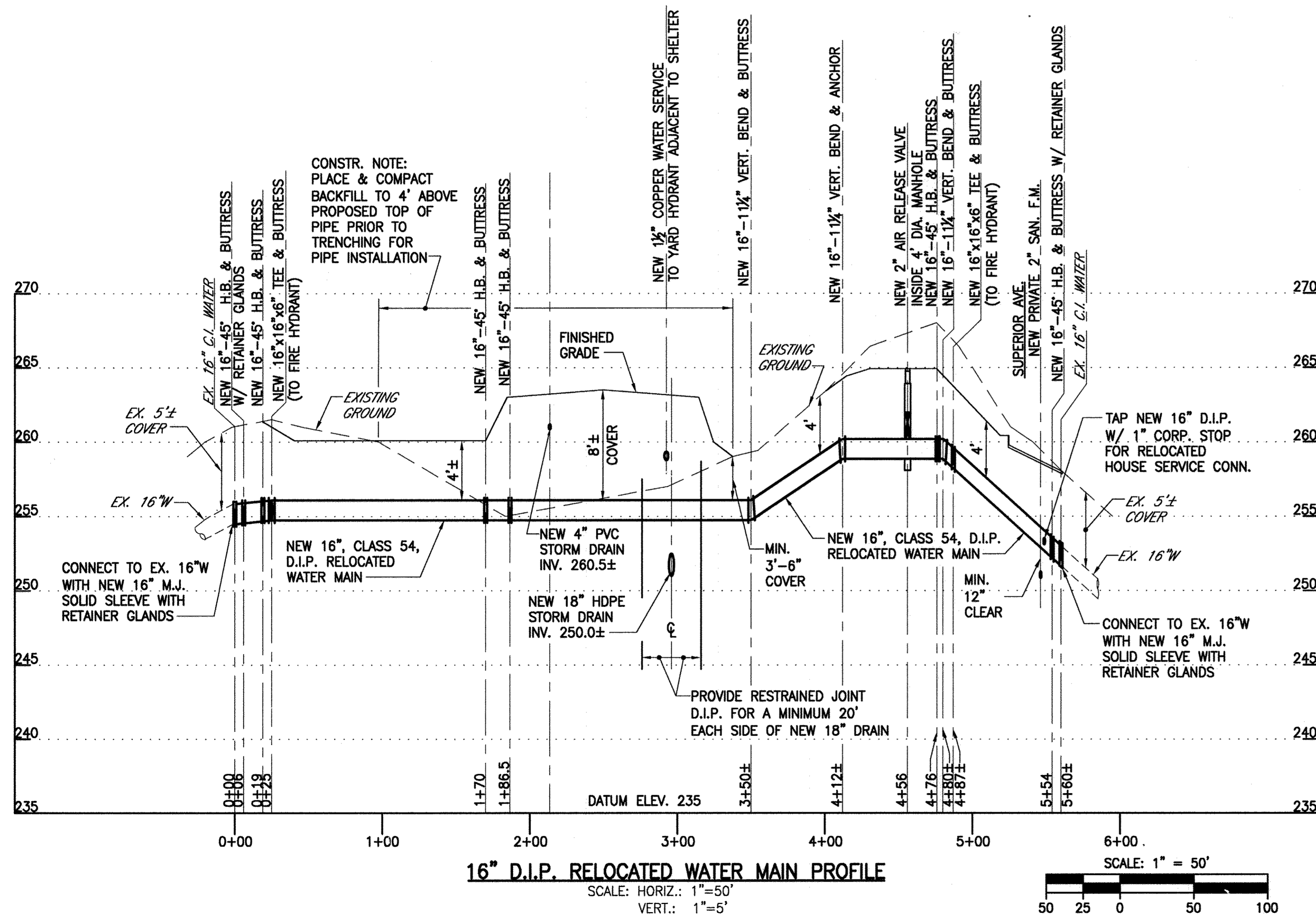
UTILITY NOTES

1. ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED AND SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH SECTION 1000, 1002, 1004, AND 1007 OF THE STANDARD SPECIFICATIONS. PIPE SHALL BE RESTRAINED WHERE NOTED ON THE PLANS. DUCTILE IRON PIPE FITTINGS SHALL BE PROVIDED WITH EXTERIOR EPOXY COATING IN ACCORDANCE WITH AWWA C116.
2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES AND SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 1003 OF THE STANDARD SPECIFICATIONS.
4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD HOWARD COUNTY DETAILS, EXCEPT WHERE RESTRAINED JOINT PIPE IS NOTED ON DRAWINGS.
5. 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.
6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM; SEE UTILITY NOTE 12.
7. SHOULD THE CONTRACTOR ENCOUNTER OBSTRUCTIONS AND/OR UTILITIES NOT SHOWN ON THE PLANS, NOTIFY THE RESIDENT ENGINEER FOR DISPOSITION PRIOR TO PROCEEDING WITH THE WORK.
8. INSTALL ALL EXCAVATION, TRENCHING, SHEETING, SHORING, AND BRACING AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING OSHA.
9. CONSTRUCT A SUMP AND PROVIDE NECESSARY PUMPS TO KEEP TRENCH EXCAVATIONS DRY DURING CONSTRUCTION OPERATIONS.
10. PROVIDE ADEQUATE BARRICADES AROUND TRENCH/HOLE EXCAVATIONS. MAINTAIN BARRICADES UNTIL BACKFILL HAS BEEN PLACED TO APPROXIMATE FINISH GRADE.
11. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MARYLAND STATE OCCUPATIONAL SAFETY LAWS. SEE STATE HIGHWAY ADMINISTRATION SPECIFICATIONS.
12. THE CONTRACTOR MUST OBTAIN APPROVAL FROM HOWARD COUNTY AT LEAST ONE WEEK PRIOR TO MAKING ANY CONNECTIONS TO EXISTING UTILITIES. CONTACT THE BUREAU OF UTILITIES AND ARRANGE FOR TEMPORARY CLOSURE OF EXISTING VALVES AS REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE PLANS. SEE SPECIAL PROVISIONS, DOCUMENT D, PARAGRAPH 18 "TIE-IN TO EXISTING WATER MAINS".



CONTINGENT UTILITY CONFLICT DETAIL

(TO BE USED ONLY TO AVOID UNFORSEEN CONFLICT WITH EXISTING UTILITY)
NOT TO SCALE



QUANTITIES				
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER
16" D.I.P. (CLASS 54)	L.F.	560		
6" D.I.P. (CLASS 54)	L.F.	80		
1 1/2" COPPER (TYPE K)	L.F.	320		
1" COPPER (TYPE K)	L.F.	110		
6" GATE VALVE & BOX	EA.	2		
6" FIRE HYDRANT	EA.	2		
2" AIR RELEASE VALVE & MH	EA.	1		
1/2" METER & VAULT	EA.	1		
1" YARD HYDRANT	EA.	1		

NAME OF UTILITY CONTRACTOR:

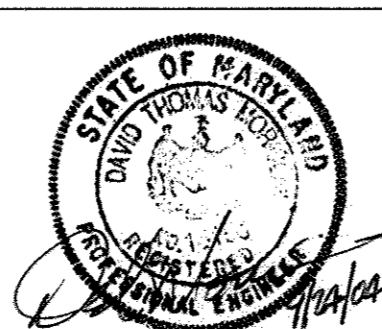
CHECKBOX:
AS BUILT DATE:

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John J. O'Hara 10/20/04
DIRECTOR OF PUBLIC WORKS DATE

David S. Gagnon 10/7/04
CHIEF, BUREAU OF ENGINEERING DATE

Olga L. Lee 10-7-04
CHIEF, BUREAU OF UTILITIES DATE



DES: RER			
DRN: CLD			
CHK: DTM/RKK			
DATE: 8/11/04	BY NO.	REVISION	DATE

Modifications To
CONTRACT NO. 1-W
Drawing No. 16 of 25

600 SCALE MAP NO. 50 BLOCK NO. 1

HIGH RIDGE PARK
6TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
CAPITAL PROJECT No. N-3104

16" WATER MAIN DETAILS

SCALE

SHEET 2 OF 2