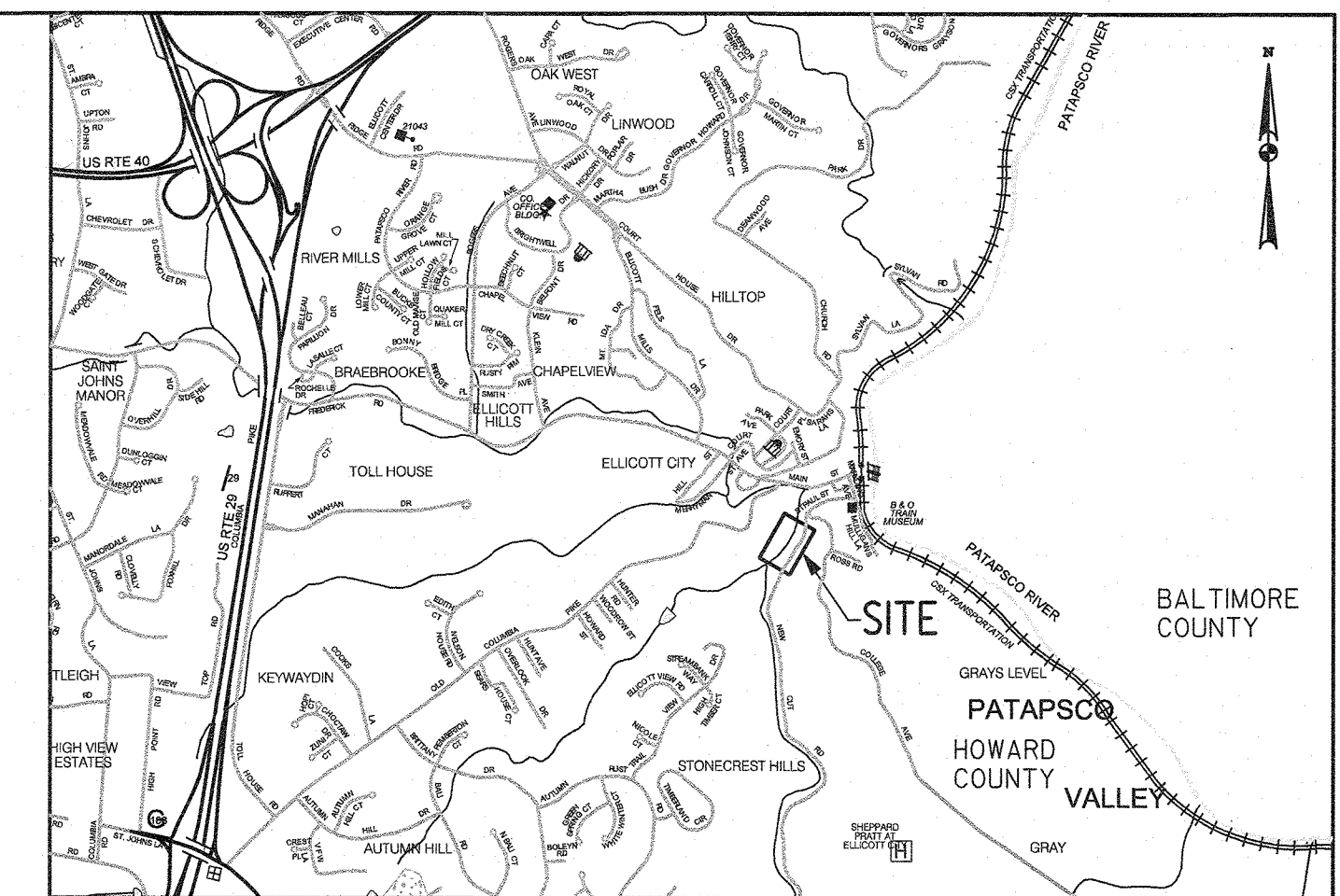


# NEW CUT ROAD SLOPE REPAIR WATER AND SEWER HOWARD COUNTY, MARYLAND

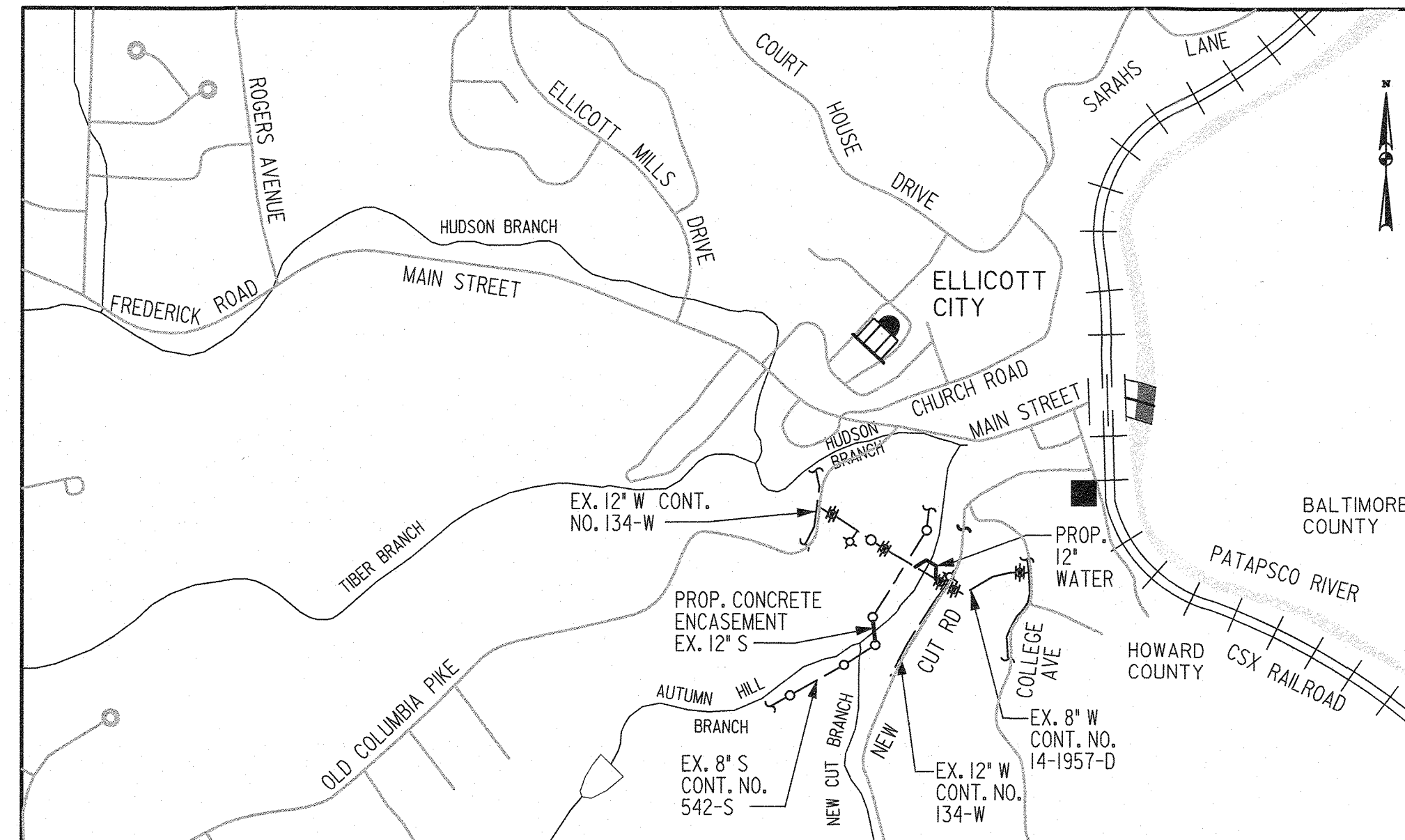
DEPARTMENT OF PUBLIC WORKS  
CAPITAL PROJECT NO. W-8602  
CONTRACT NO. 44-5094



VICINITY MAP  
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.
- TOPOGRAPHIC FIELD-RUN SURVEY PERFORMED BY JMT IN JUNE 2018 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:  
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 1983/2011 ZONE 1900 EPOCH 2010 AND THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDB88(GEOD 12B)) AND GROUND VERIFICATION CHECK TO HOWARD COUNTY SURVEY CONTROL POINT NO. 256A.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT (I) ELEVATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". 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 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 THE POLES.
- 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.
- WHERE TEST PITS HAVE BEEN MADE ON THE EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. 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 2 WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST 5 WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:  
AT&T.....1-800-252-1133  
BC&E (CONSTRUCTION SERVICES).....410-637-8713  
BC&E (EMERGENCY).....410-685-0123  
BUREAU OF UTILITIES (DPW).....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
- 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 LINE OR 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 5 WORKING DAYS BEFORE ANY OPEN CUT OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OR THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.1141(g) OF THE HOWARD COUNTY CODE.
- FOR SLOPE REPAIR, STREAM STABILIZATION, SEDIMENT CONTROLS, AND TRAFFIC CONTROLS, REFER TO CAPITAL PROJECT NO. D-1165 DRAWINGS.



LOCATION MAP  
SCALE: 1" = 600'

TYPE OF BUILDING:	NONE
NUMBER OF HOUSE CONNECTIONS:	0 W/C and 0 S/C
DRAINAGE AREA:	PATAPSCO
PRESSURE ZONE:	550
WATER TEST GRADIENT:	804 ELEVATION
WATER TEST PRESSURE:	290 PSI

HORIZONTAL AND VERTICAL CONTROL BASED ON MARYLAND NAD 1983(2011) ZONE 1900 EPOCH 2010 AND NAVD 1988 (NAVDB88(GEOD 12B)) DATUM.
HOWARD COUNTY MONUMENT
POINT No. 256A - CONCRETE MONUMENT (Horiz. & Vert.)
N 549,483.667
E 1,371,171.838
ELEV. 381.902

## WATER NOTES

- ALL WATER MAINS SHALL BE RESTRAINED JOINT DUCTILE IRON, CLASS 54 UNLESS OTHERWISE APPROVED.
- TOP OF WATER MAINS SHALL HAVE A MINIMUM 4'-0" 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 NOTED 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 SECTIONS 1000 AND 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.

## LEGEND

FENCE LINE	—X—X—	PROPOSED WATER MAIN	—
RIGHT OF WAY LINE	—	PROPOSED WATER THRUST BLOCK	■
PROPERTY LINE	—	PROPOSED WATER MAIN IN CASING PIPE	—
LIMIT OF DISTURBANCE	—LOD—	PROPOSED WATER CAP	E—W—
WATER	— W —	PROPOSED CONC. ENCASE ON EXISTING SEWER MAIN	— SAN —
GAS	— G —	EX. WATER VALVE	⊕
SAN. SEWER	— SAN —	EX. FIRE HYDRANT	⊙
UG ELECTRIC	— E —	EX. WATER METER	⊗
UG TELEPHONE	— T —	PROP. STORM DRAIN PIPE (CAPITAL PROJECT NO. D-1165)	—
UTILITY POLE	⊙		
TRAVERSE POINT	△		

## PURPOSE STATEMENT

THE PURPOSE OF THIS PROJECT IS TO RELOCATE THE EXISTING 12" WATER MAIN AND CONCRETE ENCASE EXISTING 12" SEWER MAIN IN COORDINATION WITH THE SLOPE REPAIR OF NEW CUT ROAD, CAPITAL PROJECT No. D-1165.

AS-BUILT DRAWINGS HAVE BEEN COMPILED FROM MARK-UPS OBTAINED FROM CONTRACTOR. THE ENGINEER MAKES NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OR THE ACTUAL AS-BUILT FIELD CONDITIONS.

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	WATER AND SEWER TITLE SHEET
2	WATER AND SEWER PLAN
3	WATER AND SEWER PROFILES AND DETAILS

QUANTITIES				
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER
12" W DI PIPE	L.F.	114	130	FERGUSON WATERWORKS
12" 22.5 DEG. BEND	EA.	3	3	FERGUSON WATERWORKS
12" 45 DEG. BEND	EA.	6	6	FERGUSON WATERWORKS
36" STEEL CASING	L.F.	24	36	FERGUSON WATERWORKS
CONC. ENCASE SEWER	L.F.	12	N/A	
△ ELIMINATED FROM PROJECT DUE TO EXISTING CONDITIONS				
NAME OF UTILITY CONTRACTOR: ALLAN MYERS				
AS-BUILT DATE: 04/08/20				

## CORROSION CONTROL GENERAL NOTES (DIP)

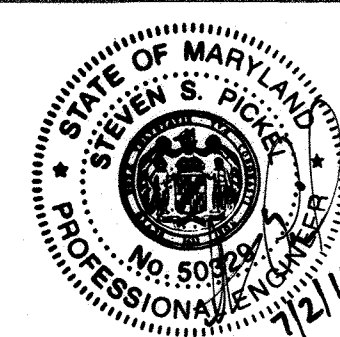
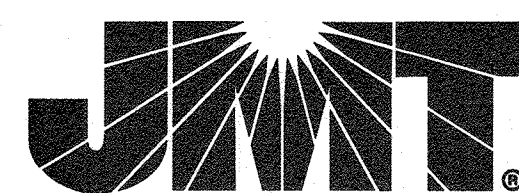
- EXTERNALLY COAT ALL DUCTILE IRON PIPE AND FITTINGS IN ACCORDANCE WITH THE SPECIFICATIONS.
- POLYETHYLENE ENCASEMENT SHALL NOT BE INSTALLED ON NEW DUCTILE IRON WATER PIPE.
- BOND ALL NEW DUCTILE IRON PIPE JOINTS EXCEPT THOSE THAT ARE SPECIFIED TO BE ELECTRICALLY ISOLATED, SEE DETAILS C-3.01 AND C-3.02.
- FOR HORIZONTAL THERMITE WELDS TO DUCTILE IRON PIPE, SEE DETAIL C-3.04. FOR VERTICAL THERMITE WELDS TO DUCTILE IRON PIPE, SEE DETAIL C-3.05
- ELECTRICAL ISOLATION IS REQUIRED FOR ALL CONNECTIONS TO EXISTING PIPING.
- FOR PLACEMENT OF ANODES, SEE DETAIL C-1.01.
- INSTALL SEPARATOR MESH ON WATER MAIN AT EXISTING UTILITY CROSSING IF THERE IS LESS THAN 12 INCHES OF SPACING BETWEEN THEM. SEE DETAIL C-4.06.
- DUCTILE IRON PIPE THAT WILL BE IN DIRECT CONTACT WITH POURED CONCRETE, SUCH AS AT THRUST BLOCKS, ETC., SHALL BE FIELD COATED WITH 20 MILS OF MASTIC (ROYSTON R28 OR APPROVED EQUAL). THE MASTIC COATING SHALL BE APPLIED IN TWO COATS, EACH COAT TO BE A MINIMUM OF 10 MILS IN THICKNESS.
- DO NOT SET TEST STATIONS IN ROADWAY. PLACE TEST BOX IN NON-PAVED AREA NEXT TO ROADWAY. ROUTE ALL WIRES THROUGH PVC CONDUIT TO FINAL TEST BOX LOCATION.
- CONTRACTOR TO NOTIFY ENGINEER 72 HOURS PRIOR TO INSTALLATION OF CORROSION CONTROL COMPONENTS.

03/20/18 11:46:03 New Cut Road Slope Repair - S:\CD\DWG\1801\1801.dwg - PLOT: JMT.dwg - 03/20/18 11:46:03 AM

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]*  
DIRECTOR OF PUBLIC WORKS  
7-2-19

*[Signature]* 7-3-19  
CHIEF, BUREAU OF ENGINEERING  
*[Signature]* 7/3/19  
CHIEF, UTILITY DESIGN DIVISION  
*[Signature]* SRK



DES:	RAF	BY NO.	SSP	AS-BUILT	DATE	5/2/20
DRN:	RAF					
CHK:	LAF					
DATE:	07/02/2019					

WATER AND SEWER  
TITLE SHEET

MAP NO. 25 BLOCK NO. 14

NEW CUT ROAD SLOPE REPAIR  
WATER AND SEWER

CAPITAL PROJECT No. W-8602  
CONTRACT No. 44-5094

ELECTION DISTRICT I HOWARD COUNTY, MARYLAND

UT-1 OF 3  
SCALE AS SHOWN  
SHEET 1 OF 3







