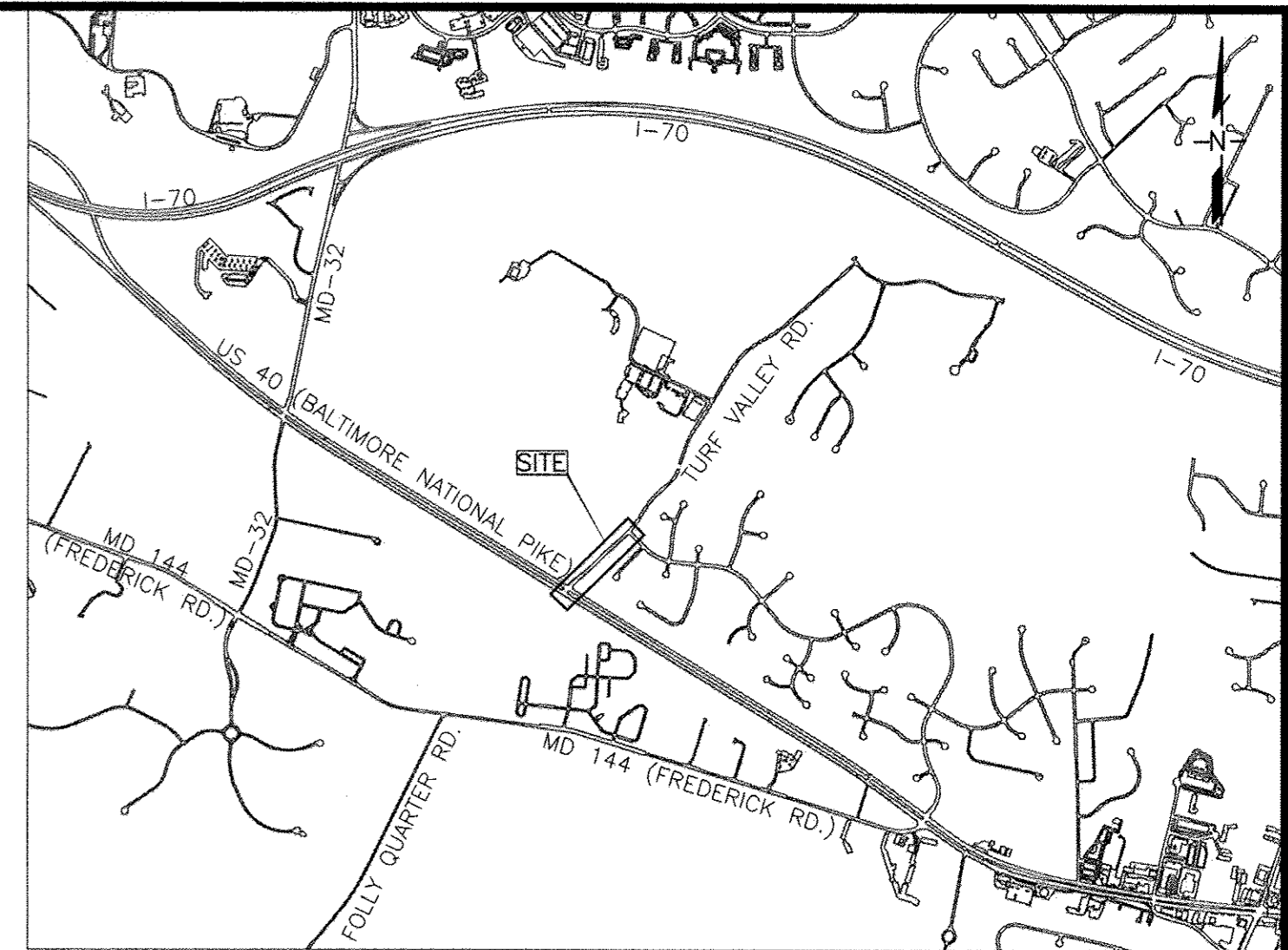




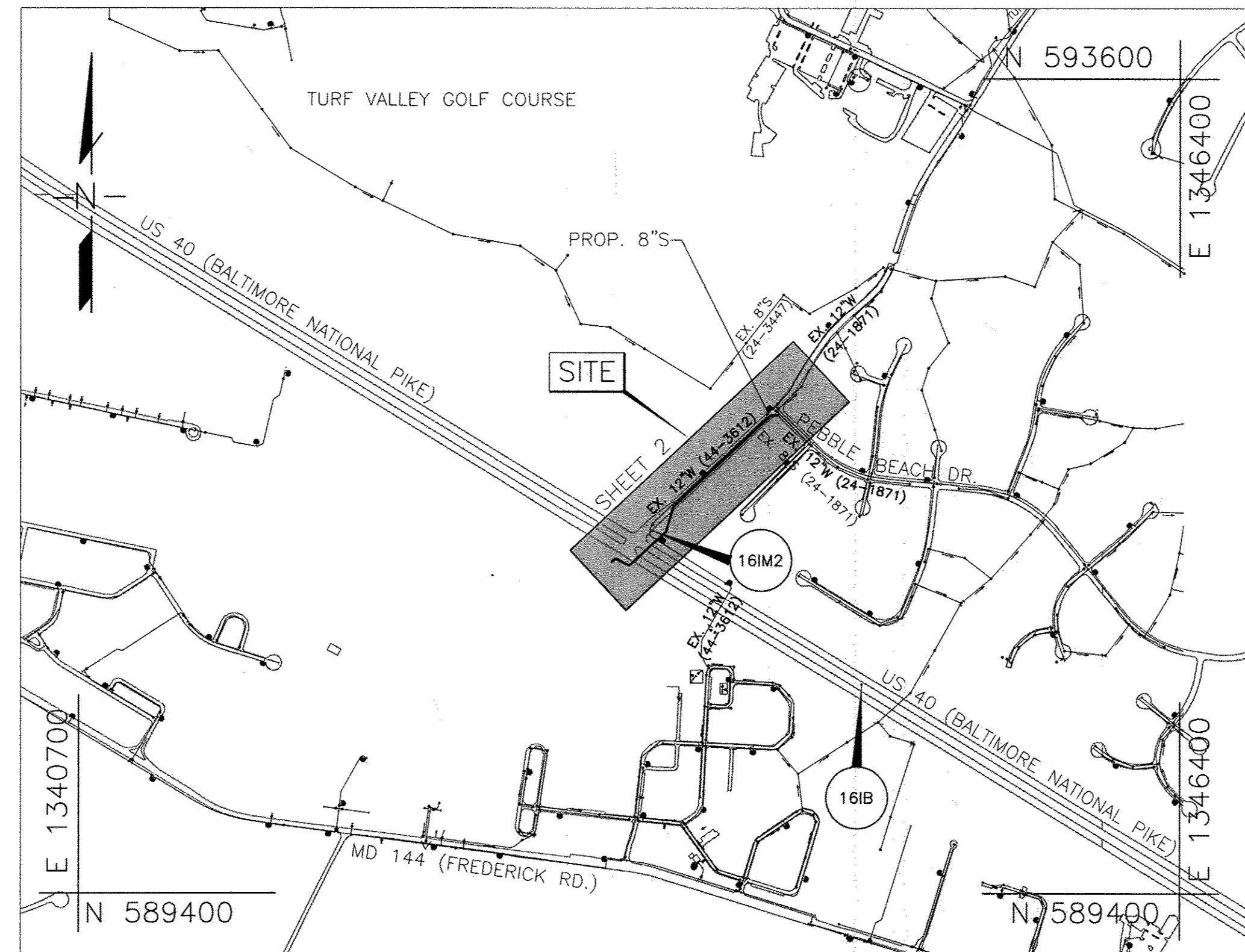
# TURF VALLEY ROAD SEWER EXTENSION HOWARD COUNTY, MD CAPITAL PROJECT NO. S-6293 CONTRACT NO. 20-4987



**LOCATION MAP**  
SCALE: 1"=2000'

**GENERAL NOTES:**

- PART I - GENERAL**
- 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 IN OCTOBER 2015 BY MERCADO CONSULTANTS, INC.
  - 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 STATION: NO. 161B, N 590475.286, E 1344753.990, ELEV. 489.828' AND BENCHMARK: NO. 161M2, ELEV. 437.481'  
ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE ALUMINUM STAMPED DISCS.
  - 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 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 THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED 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)  | 410.637.8713   |
| BGE (EMERGENCY)              | 410.685.0123   |
| BUREAU OF UTILITIES          | 410.313.4900   |
| COLONIAL PIPELINE COMPANY    | 410.795.1390   |
| MISS UTILITY                 | 1.800.257.7777 |
| STATE HIGHWAY ADMINISTRATION | 410.531.5533   |
| VERIZON                      | 1.800.743.0033 |
| MCI WORLDCOM                 | 1.800.624.9675 |
- 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(g) OF THE HOWARD COUNTY CODE.
  - SEE SPECIFICATIONS FOR PERMITTED WORKING DAYS/HOURS.
  - THE CONTRACTOR MUST FOLLOW ALL CONDITIONS AND REQUIREMENTS AS SET FORTH IN THE REQUIRED PERMITS FOR THIS PROJECT.
  - THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MARYLAND HIGH VOLTAGE LINE ACT (HVLA). THE CONTRACTOR MUST NOTIFY BGE AT 800.685.0123 BEFORE ANY WORK BEGINS THAT MAY BRING PEOPLE OR EQUIPMENT WITHIN 10 FEET OF OVERHEAD UTILITY LINES. BGE WILL MAKE THE AREA SAFE FOR THE WORK TO BE DONE. HVLA GUIDELINES APPLY TO BOTH PROFESSIONAL AND NON-PROFESSIONAL WORKERS. NO ONE IS EXEMPT FROM COMPLIANCE.
  - THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIRES THAT WHEN USING A CRANE OR DERRICK IN PERFORMANCE OF THE WORK SET FORTH IN THIS CONTRACT, A 20 FOOT CLEARANCE IS REQUIRED TO BE MAINTAINED FROM ALL OVERHEAD POWER LINES UNTIL THE VOLTAGE OF THE OVERHEAD LINE IS IDENTIFIED BY THE UTILITY OWNER. CONTACT BGE FOR ASSISTANCE WHEN USING CRANES OR DERRICKS AT 877.427.2008.
  - THE CONTRACTOR SHALL NOT ENTER UPON PUBLIC OR PRIVATE PROPERTY (OUTSIDE OF THE RIGHT-OF-WAY OR CONSTRUCTION STRIP) FOR ANY PURPOSE WITHOUT OBTAINING PERMISSION AND IT SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY, TREES, MONUMENTS, SIGNS AND MARKERS THEREON, AND SHALL USE EVERY PRECAUTION NECESSARY TO PREVENT DAMAGE OR INJURY THERETO.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO PROPERTY OF ANY CHARACTER DURING THE EXECUTION OF THE WORK, RESULTING FROM ANY ACT, OMISSION, NEGLIGENCE OR MISCONDUCT IN ITS MANNER OR METHOD OF EXECUTING SAID WORK, OR AT ANY TIME DUE TO DEFECTIVE WORK OR MATERIALS, AND SAID RESPONSIBILITY SHALL NOT BE RELEASED UNTIL THE WORK SHALL HAVE BEEN COMPLETED AND ACCEPTED.



**VICINITY MAP**  
SCALE: 1"=600'

**SEWER NOTES:**

- PART II - SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
  - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
  - FORCE MAINS SHALL BE D.I.P. ONLY.
  - MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
  - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER TIGHT FRAME AND COVER, STANDARD DETAIL G5.52.
  - WHERE WATER TIGHT MANHOLE 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 BE SERVED.
  - THE CONTRACTOR SHALL PROVIDE SURVEY CONSTRUCTION STAKEOUT FOR ALL NECESSARY LINES, GRADES AND ELEVATIONS OF THE PROPOSED FACILITIES.
  - THE CONTRACTOR SHALL VERIFY THE LOCATION OF AND DEPTH OF THE EXISTING WATER MAINS AND UTILITY CROSSINGS. ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
  - PIPE TRENCHING AND PAVEMENT REPLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY STANDARD DETAILS AND SPECIFICATIONS. LENGTH OF OPEN TRENCH WILL BE LIMITED TO THAT WHICH MUST BE FILLED AND STABILIZED IN ONE WORKING DAY.

TYPE OF BUILDING: N/A  
NUMBER OF PARCELS: N/A  
NUMBER OF SEWER HOUSE CONNECTIONS: 0  
DRAINAGE AREA: RTE. 108 PUMP STATION

**PROJECT PURPOSE:**

THE PURPOSE OF THIS SEWER EXTENSION IS TO PROVIDE SEWER SERVICE TO ALL EXISTING AND PROPOSED HOMES AND/OR BUSINESS CONTAINED WITHIN THE DRAINAGE AREA CONTAINED BY RTE. 144, MARRIOTTVILLE ROAD AND RTE. 40.

**RECORD DRAWINGS**  
TO THE BEST OF OUR KNOWLEDGE AND BELIEF, BASED ON INFORMATION BY OTHERS, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.  
BY: *Michael Baker International* 2/6/18

MANHOLE NUMBER	NORTHING	EASTING
1	591864.1746	1344280.9540
2	591593.6301	1343990.5700
3	591396.6744	1343779.1505
4	591265.4691	1343739.6933
5	591091.5854	1343551.1567
6	591126.9659	1343477.4711
7	591108.5117	1343457.4633

SHEET SET NO.	DESCRIPTION
1	TITLE SHEET
2	PROPOSED 10" SANITARY SEWER MAIN - PLAN & PROFILE
3	EROSION & SEDIMENT CONTROL NOTES & DETAILS
4	EROSION & SEDIMENT CONTROL PLAN, SURVEY CONTROL INDEX, TRAFFIC CONTROL & PAVEMENT RESTORATION DETAILS

ITEM	UNITS	QUANTITY ESTIMATED	AS-BUILT	
			QUANTITY	MANUFACTURER / SUPPLIER
10" SEWER MAIN - PVC, C900 RESTRAINED	L.F.	256	256	DIAMOND PLASTICS / LB WATER
10" SEWER MAIN - PVC, SDR-35 C900	L.F.	978	991	N.AMERICAN PIPE / LB WATER
36" O.D. STEEL CASING PIPE	L.F.	236.5	235	FRESBURGH PIPE / SNYDER INTL.
6' MIN. DEPTH SEWER MANHOLE	EA.	7	7	ATLANTIC PRECAST / SAME
6' MIN. DEPTH SEWER MANHOLE BEYOND MIN. 6' DEPTH	V.L.F.	81	81	ATLANTIC PRECAST / SAME

**NOTE:**  
1. QUANTITIES IN THIS TABLE ARE SOLELY FOR RECORD PURPOSES. CONTRACTOR SHALL NOT RELY ON THE QUANTITIES IN THE TABLE AND SHALL USE HIS/HER OWN TAKEOFF TO ESTABLISH MATERIALS AND QUANTITIES NEED FOR THIS PROJECT.

**LEGEND:**

	PROP. SEWER MAIN / MANHOLE		EXIST. STREAM / WATERWAY EDGE
	PROP. SEWER TERMINAL MANHOLE		EXIST. SHRUB
	EXIST. SEWER MAIN / MANHOLE		EXIST. SEWER HOUSE CONNECTION
	EXIST. WATER MAIN / VALVE VAULT		EXIST. BGE POLE
	EXIST. WATER HOUSE CONNECTION		EXIST. STREET SIGN
	EXIST. STORM DRAIN		EXIST. GAS
	EXIST. GAS SERVICE CONNECTION		BORING LOCATION
	EXIST. ELECTRIC - UNDERGROUND		EXIST. SEWER MAIN MANHOLE ID
	EXIST. ELECTRIC - OVERHEAD		CURB INLET PROTECT
	EXIST. FIBER OPTIC		
	EXIST. TELEPHONE - UNDERGROUND		
	EXIST. TELEPHONE - OVERHEAD		
	RIGHT OF WAY		
	PROPERTY LINE		
	GUARDRAIL		
	FENCE		
	SUPER SILT FENCE		
	LIMITS OF DISTURBANCE		
	EXIST. E.O.P.		
	TRAVERSE		

AS-BUILTS 2-6-2018

**OWNER'S / DEVELOPER'S CERTIFICATION:**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

*Wes Dault* February 1, 2017  
BUREAU OF ENGINEERING  
DEPARTMENT OF PUBLIC WORKS

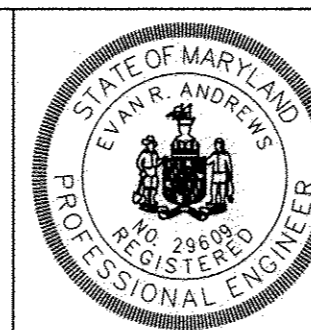
**ENGINEER'S DESIGN CERTIFICATION:**

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*Evan R. Andrews* 1/18/17  
SIGNATURE OF ENGINEER  
EVAN R. ANDREWS, P.E.

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO.: 28658  
EXPIRATION DATE: 11/19/17  
*Evan R. Andrews*  
EVAN R. ANDREWS, P.E.



DESIGN: ERA	DATE: 01/18/17	NO.	NO.	NO.	NO.	NO.	NO.
DRAWN: DK							
CHECKED: RSR							
DATE: 01/18/17							

TITLE SHEET

**TURF VALLEY ROAD  
SEWER EXTENSION  
CONTRACT NO.: 20-4987  
CAPITAL PROJECT NO.: S-6293  
ELECTION DISTRICTS 1 & 5  
HOWARD COUNTY, MARYLAND**

SCALE  
AS SHOWN  
SHEET  
1 OF 4

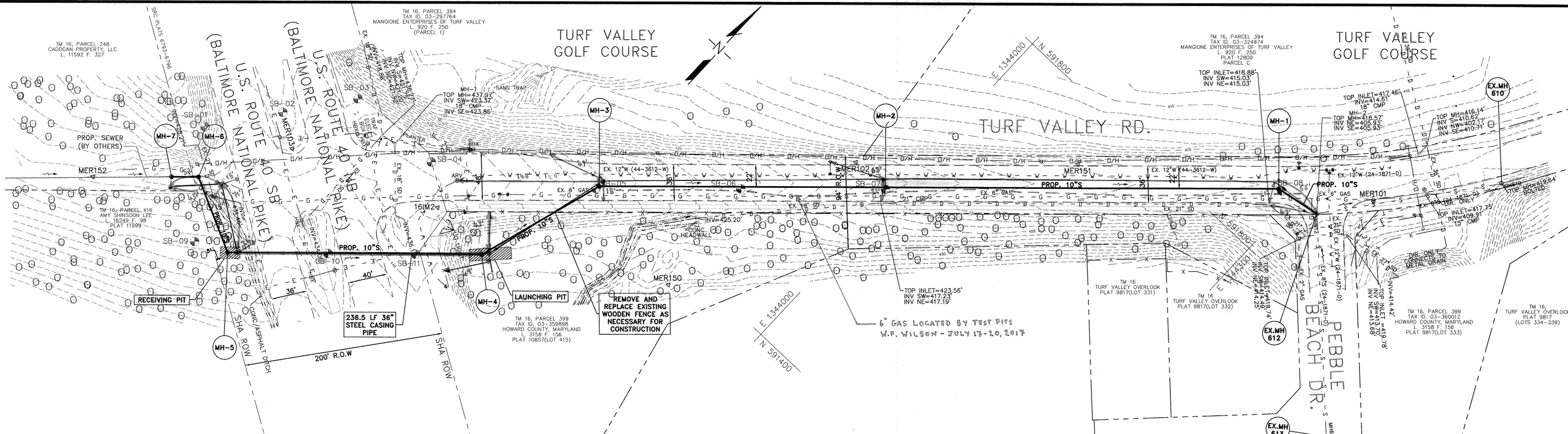
**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND

*James R. Butler* 2/1/17  
DIRECTOR OF PUBLIC WORKS

*Thomas R. Butler* 1/30/17  
CHIEF, BUREAU OF ENGINEERING

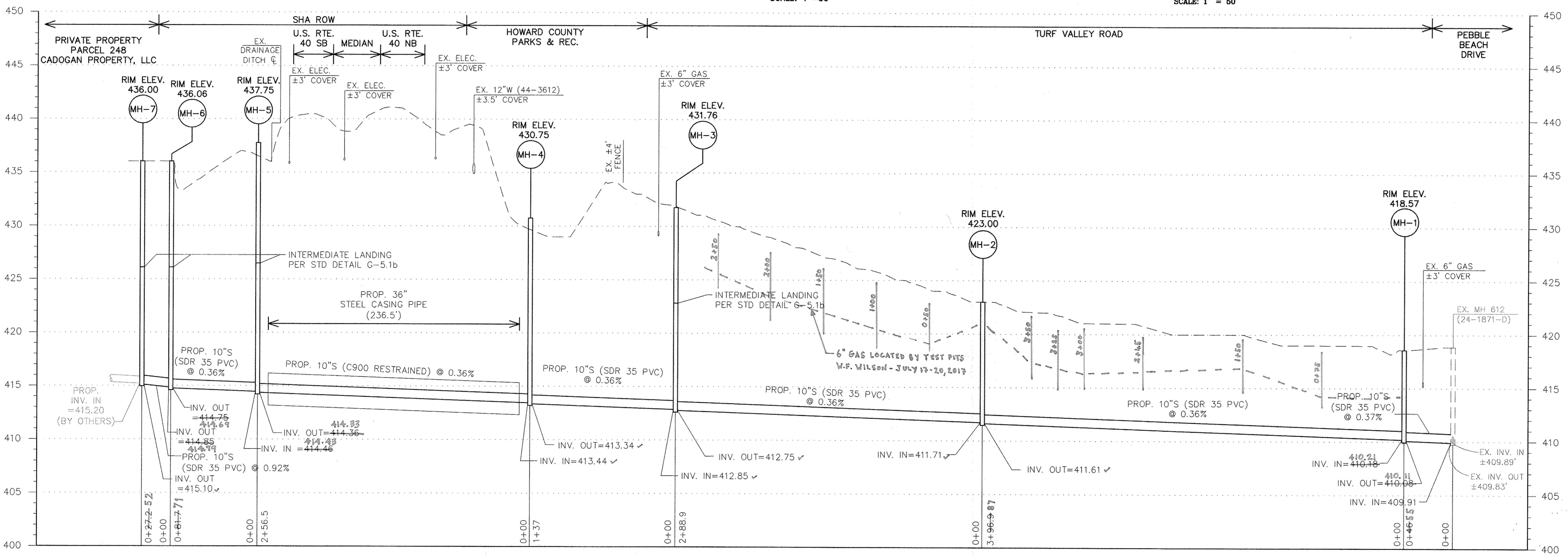
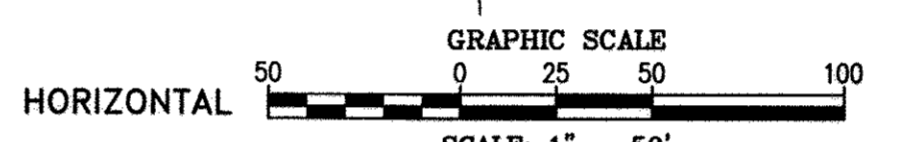
*Wes Dault* 2/1/17  
CHIEF, BUREAU OF UTILITIES

*Wes Dault* 1/30/17  
CHIEF, UTILITY DESIGN DIVISION



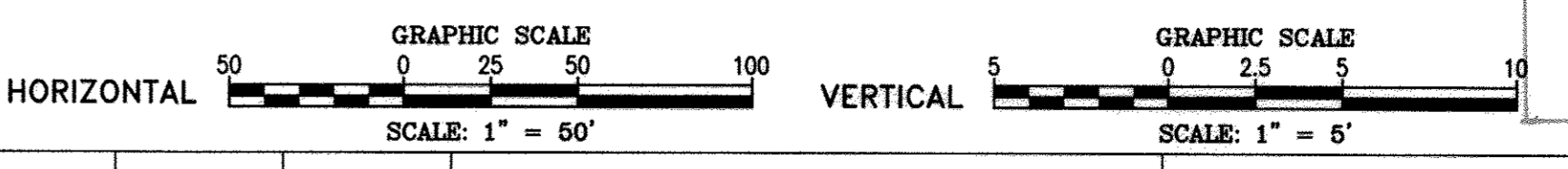
PLAN - PROP. 10" SANITARY SEWER

SCALE: 1"=50'



PROFILE - PROP. 10" SANITARY SEWER

SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



- NOTES:**
1. ALL MANHOLES SHALL MEET HOWARD COUNTY REQUIREMENTS. NOTE REINFORCEMENT REQUIREMENTS FOR MANHOLES GREATER THAN 20 FT. DEEP.
  2. CROSSING OF US-40 SHALL BE BY BORE & JACK METHOD. NO OPEN CUTS ACROSS US-40 SHALL BE ALLOWED.
  3. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING 21-INCH STORM DRAIN ADJACENT TO MH-6 TO PERMIT CONSTRUCTION OF DEEP SEWER.
  4. IF IT BECOMES NECESSARY DURING CONSTRUCTION TO BLOCK A DITCH, PIPE OR OTHER DRAINAGE FACILITY, THE CONTRACTOR SHALL INSTALL TEMPORARY DITCHES, PIPES OR OTHER DRAINAGE FACILITIES TO MAINTAIN ADEQUATE DRAINAGE AS APPROVED BY THE ENGINEER, OR THE PROPERTY OWNER. THE TEMPORARY FACILITIES SHALL BE REMOVED AND THE PERMANENT FACILITIES RESTORED UPON COMPLETION OF THE WORK.
  5. THE CONTRACTOR SHALL USE SOIL EROSION ATTENUATION METHODS AND MATERIALS TO PROTECT DITCHES AND OTHER DRAINAGE FACILITIES DURING CONSTRUCTION.

**RECORD DRAWINGS**  
 TO THE BEST OF OUR KNOWLEDGE AND BELIEF, BASED ON INFORMATION BY OTHERS, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECTS AS CONSTRUCTED.  
 MICHAEL BAKER INTERNATIONAL  
 By: *[Signature]*

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

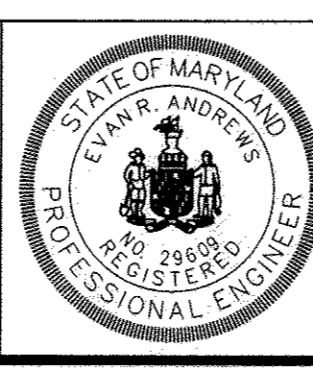
*[Signature]* 2/1/17  
 DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 1/30/17  
 CHIEF, BUREAU OF ENGINEERING DATE

*[Signature]* 2/1/17  
 CHIEF, BUREAU OF UTILITIES DATE

*[Signature]* 1/30/17  
 CHIEF, UTILITY DESIGN DIVISION DATE

**Michael Baker INTERNATIONAL**  
 MICHAEL BAKER INTERNATIONAL, INC.  
 1304 Concourse Drive, Suite 200  
 Linthicum, MD 21090-1014  
 Phone: (410) 688-3400



PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO.: 28602  
 EXPIRATION DATE: 11/18/27  
 Evan R. Andrews, P.E.

DESIGN: ERA	NO.	REVISION	DATE	BY
DRAWN: DK				
CHECKED: RSR				
DATE: 01/18/17				

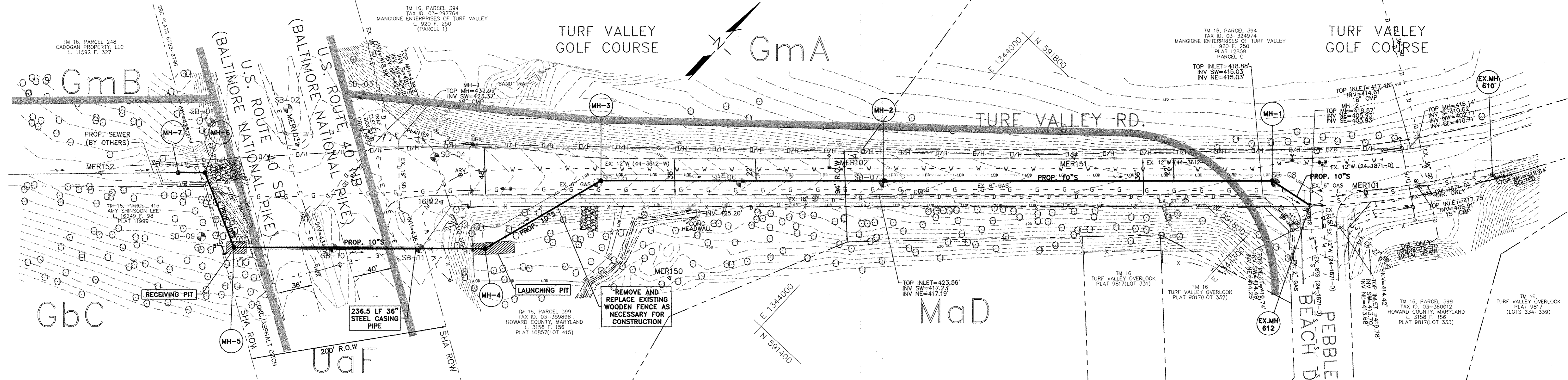
PROPOSED 10" SANITARY SEWER MAIN  
 PLAN & PROFILE

600 SCALE MAP NO. 16 BLOCK NO. N/A

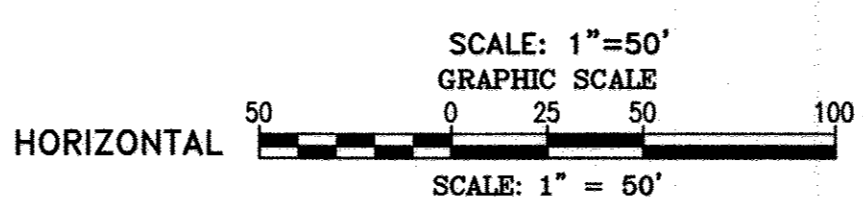
TURF VALLEY ROAD  
 SEWER EXTENSION  
 CONTRACT NO.: 20-4987  
 CAPITAL PROJECT NO.: S-6293  
 ELECTION DISTRICTS 1 & 5  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 2 OF 4

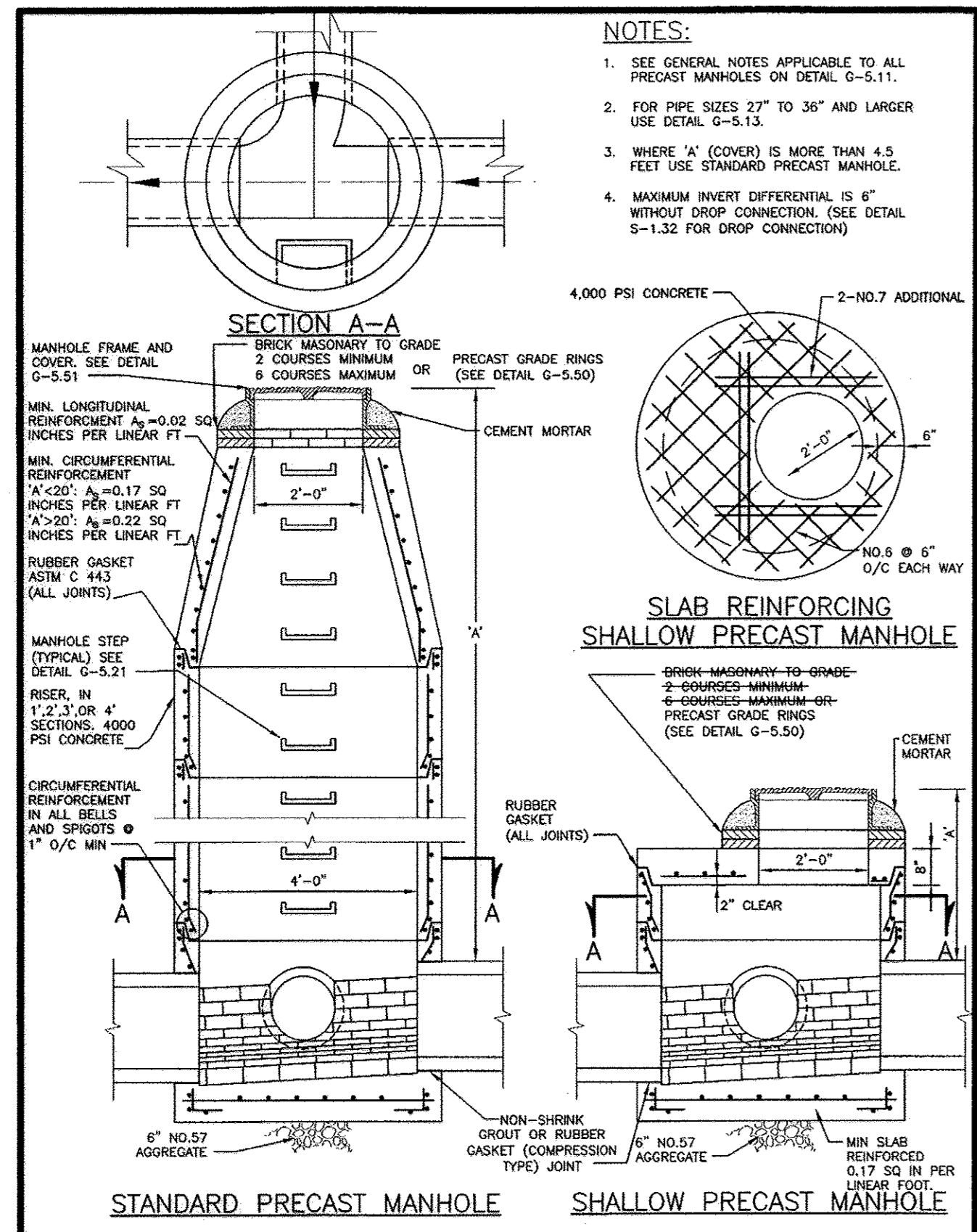
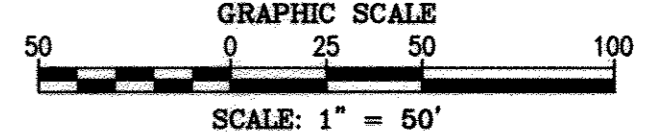




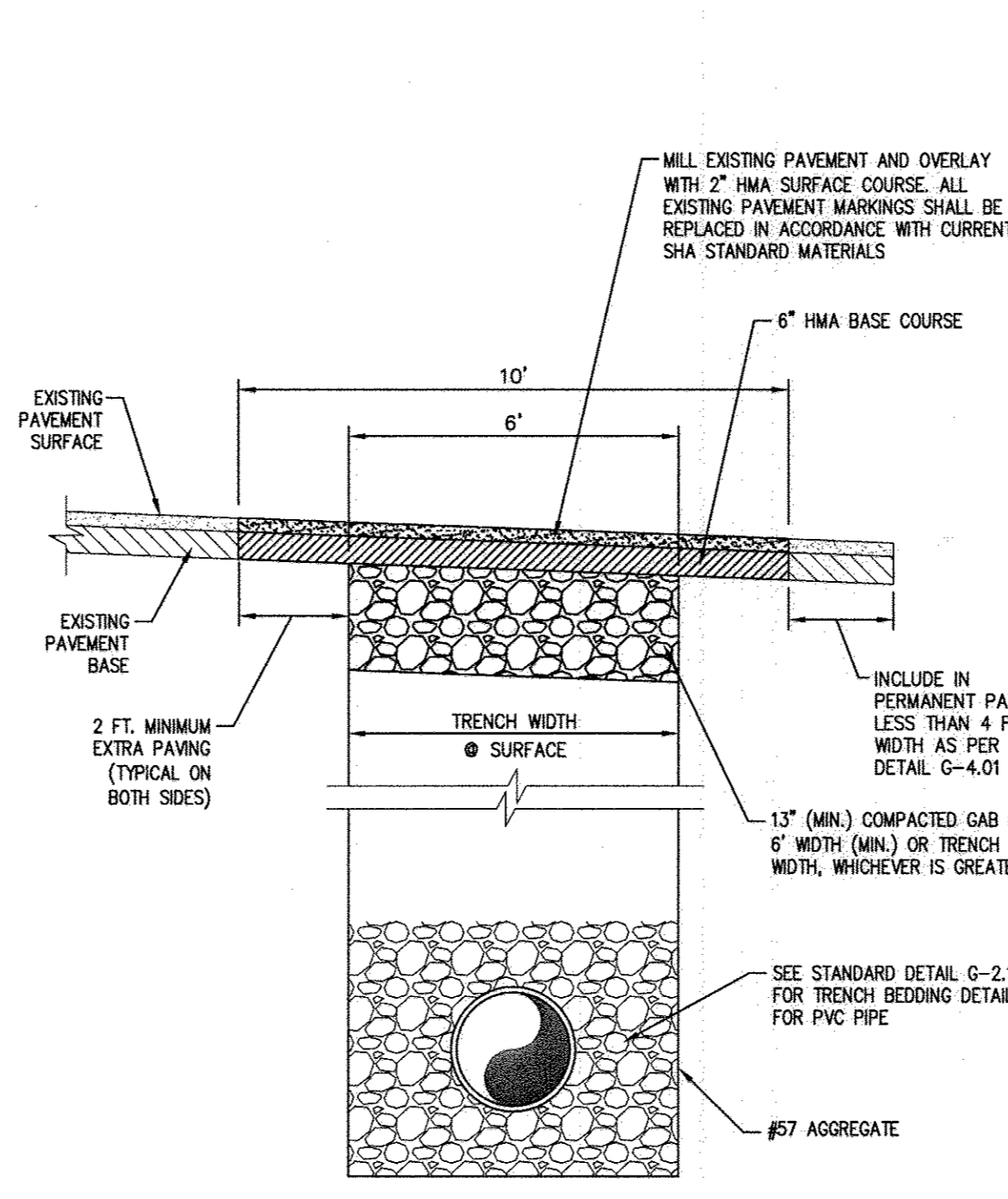
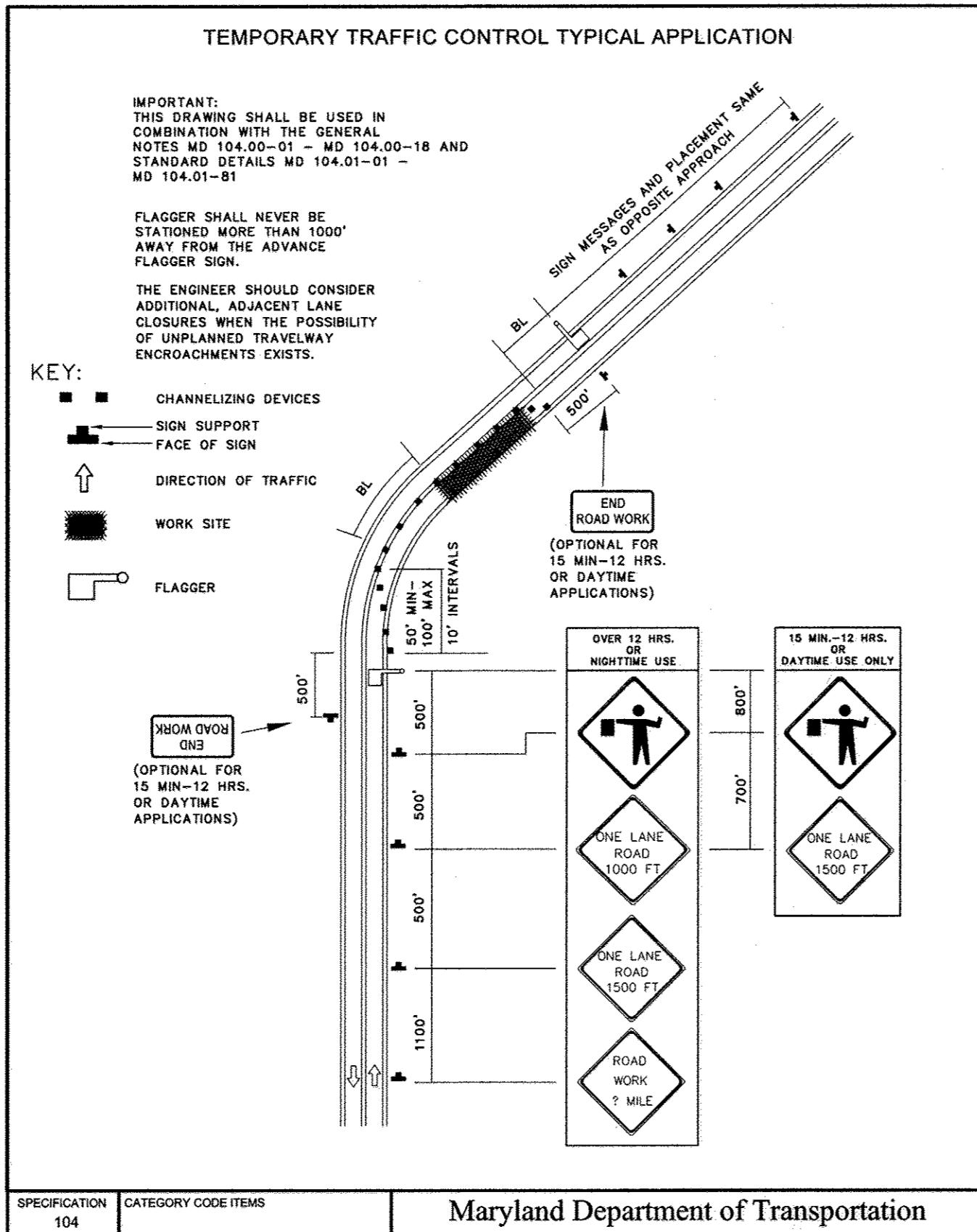
PLAN - EROSION AND SEDIMENT CONTROL



TRAVERSE REFERENCES

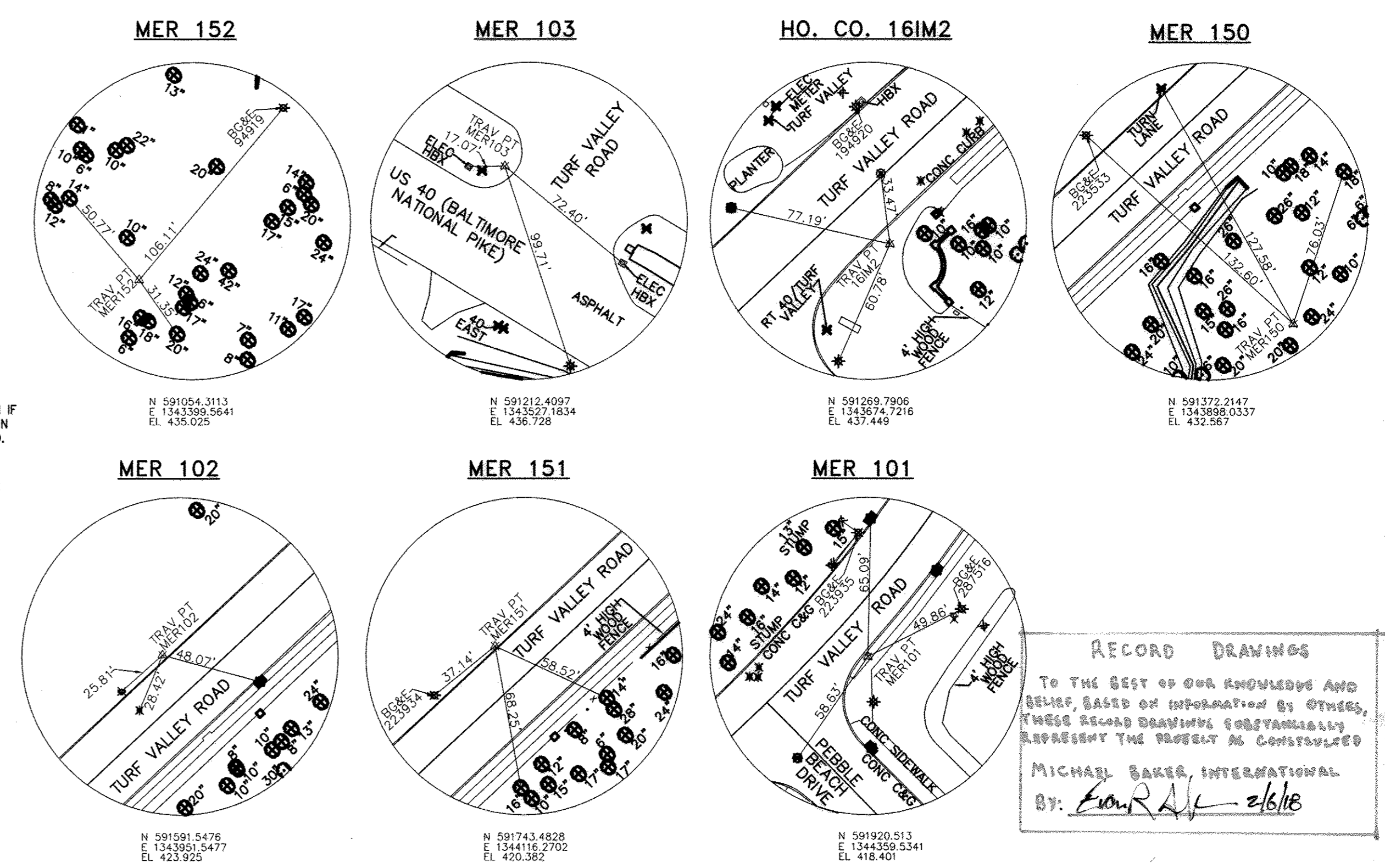


- NOTES:**
- SEE GENERAL NOTES APPLICABLE TO ALL PRECAST MANHOLES ON DETAIL G-5.11.
  - FOR PIPE SIZES 24\"/>



PAVEMENT RESTORATION DETAIL

NOT TO SCALE



**RECORD DRAWINGS**  
 TO THE BEST OF OUR KNOWLEDGE AND BELIEF, BASED ON INFORMATION BY OTHERS, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.  
 MICHAEL BAKER INTERNATIONAL  
 By: *[Signature]* 2/6/18

Howard County, Maryland Department of Public Works Date: 2/1/17 Chief, Bureau of Engineering	PRECAST MANHOLE Standard and Shallow 4'-0" for 24" Pipe and smaller	Detail G-5.12
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APPROVED: <i>[Signature]</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY	APPROVED: <i>[Signature]</i> CHIEF, BUREAU OF ENGINEERING
SPECIFICATION 104	CATEGORY CODE ITEMS
Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES FLAGGING OPERATION/2-LANE, 2-WAY EQL/LESS THAN 40 MPH	STANDARD NO. MD 104.02-10

**TRAFFIC CONTROL NOTES:**

- THE CONTRACTOR IS TO USE DETAIL MD 104.02-10 ALONG TURF VALLEY ROAD.
- THE CONTRACTOR SHALL CONFORM TO THE TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS AND OTHER TEMPORARY TRAFFIC CONTROL STANDARDS FOUND IN THE "STATE OF MARYLAND, DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION, BOOK OF STANDARDS, HIGHWAY AND INCIDENTAL STRUCTURES". THE TYPICAL APPLICATIONS THAT ARE MOST PERTINENT TO THIS PROJECT ARE INCLUDED IN THE PROJECT PLANS, BUT THE CONTRACTOR IS RESPONSIBLE FOR TO FOLLOW ALL STANDARDS FOUND IN THIS BOOK OF STANDARDS.
- THE CONTRACTOR SHALL CONTINUOUSLY PROVIDE ACCESS TO ALL EXITS, INTERSECTING ROADS, DRIVEWAYS AND ENTRANCES ALONG TURF VALLEY ROAD DURING THE COURSE OF THIS PROJECT.
- THE CONTRACTOR SHALL BACKFILL THE TRENCH IMMEDIATELY AFTER THE INSTALLATION OF A SECTION OF PIPE. THE CONTRACTOR SHALL NOT LEAVE AN OPEN TRENCH UNATTENDED.
- ANY EXCAVATED AREA NOT BACKFILLED AT THE END OF A WORK-DAY/WORK-NIGHT MUST BE COVERED WITH STEEL PLATES AS PER MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS.
- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ALL ACCIDENTS AND/OR DAMAGE TO PERSONS AND/OR PROPERTY DAMAGE RESULTING FROM HIS OPERATIONS.

**E&S LEGEND:**

	LIMIT OF SOIL TYPE
	LIMIT OF DISTURBANCE
	SOIL TYPE
	SUPER SILT FENCE
	STABILIZED CONSTRUCTION ENTRANCE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>[Signature]</i> 2/1/17 Chief, Bureau of Utilities: <i>[Signature]</i> 2/1/17	Chief, Bureau of Engineering: <i>[Signature]</i> 1/30/17 Chief, Utility Design Division: <i>[Signature]</i> 1/30/17
---	--

**Michael Baker International**  
 MICHAEL BAKER INTERNATIONAL, INC.  
 1304 COTTAGE DRIVE, SUITE 200  
 LITHIUM, MD 21090-1014  
 Phone: (410) 658-3400

**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO.: 28608  
 EXPIRATION DATE: 11/19/12  
 EMM R. ANDREWS, P.E.

DESIGN: ERA					
DRAWN: DK					
CHECKED: RSR					
DATE: 01/18/17	NO.	REVISION	DATE	BY	

**EROSION AND SEDIMENT CONTROL PLAN, SURVEY CONTROL INDEX, TRAFFIC CONTROL & PAVEMENT RESTORATION DETAILS**

**TURF VALLEY ROAD SEWER EXTENSION**  
 CONTRACT NO.: 20-4987  
 CAPITAL PROJECT NO.: S-6293  
 ELECTION DISTRICTS 1 & 5  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 4 OF 4

AS-BUILTS 2-6-2018