

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
SEWER MAIN	QUANTITIES	TYPE	SUPPLIER	
8" SS (PVC SCH-40)	374 LF	370 LF	SDR-95	NORTH AMERICAN PIPE LINE
4" SS (PVC SCH-40)	43 LF	45 LF	SDR-95	NORTH AMERICAN PIPE LINE
4" MANHOLE (HO. CO. STD G-5.12)	3	3		CONTRACTOR'S CHOICE
DOORHOUSE MANHOLE (HO. CO. STD G-5.14)	1	1		CONTRACTOR'S CHOICE
CLEANOUT	6	6		CONTRACTOR'S CHOICE
4" PLUG	1	1		CONTRACTOR'S CHOICE
NAME OF UTILITY CONTRACTOR: CONSTRUCTION SERVICES INTERNATIONAL INC.				
SURVEY & DRAFTING DIVISION AS-BUILT DATE: 12/18/23				

GUILFORD ROAD PROPERTIES

10408, 10412 AND 10416 GUILFORD ROAD

SEWER MAIN EXTENSION

HOWARD COUNTY, MARYLAND

CONSTRUCTION PLANS

CONTRACT NO. 24-5183-D

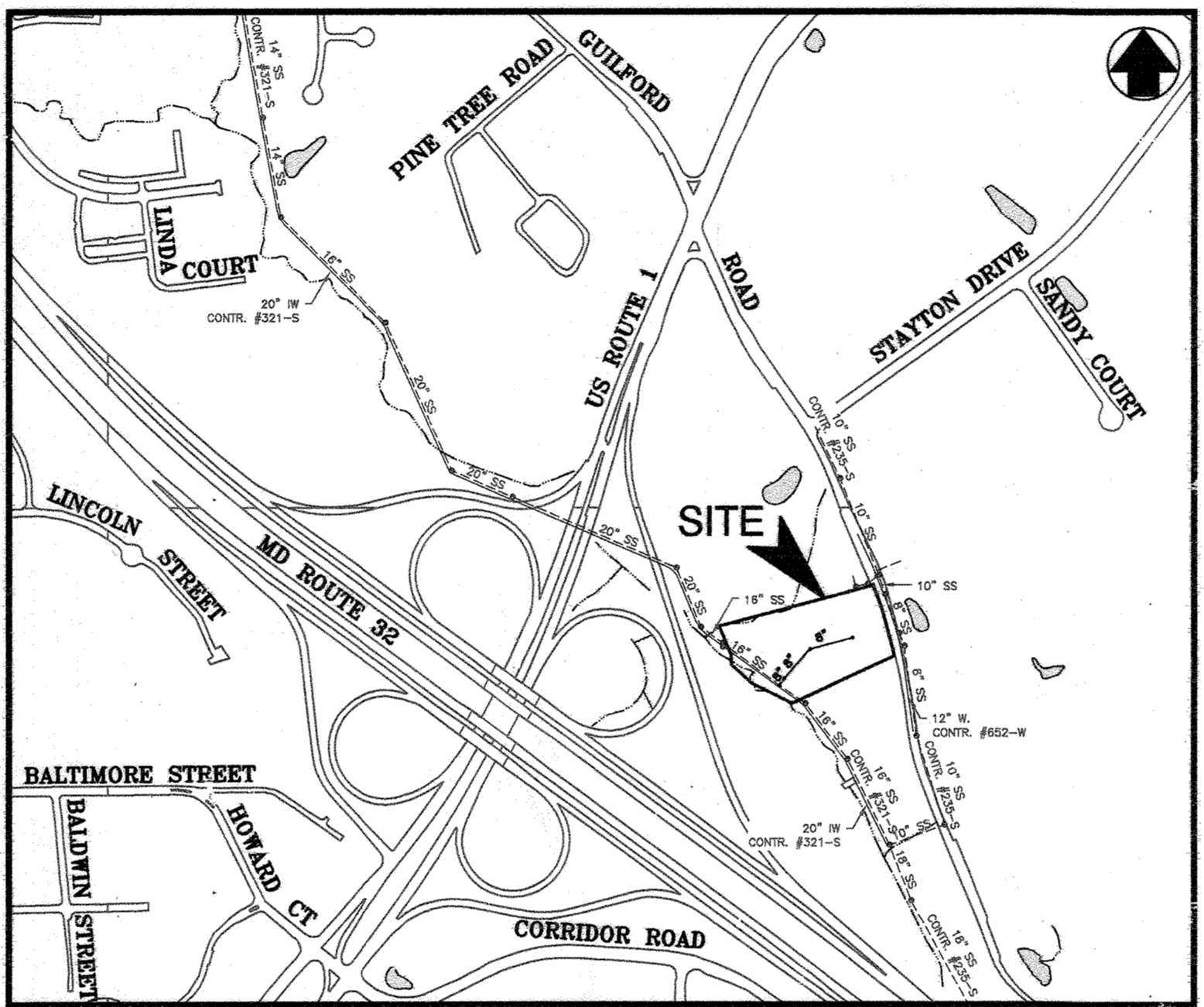


GENERAL NOTES

- PART I**
- 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 SURVEY PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC., DATED APRIL 1, 2021 AND APRIL 12, 2021.
 - HORIZONTAL AND VERTICAL CONTROL ESTABLISHED FROM REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) CONTROL POINTS. BENCHMARKS ARE AS SPECIFIED. COORDINATES AND BEARINGS SHOWN HEREON ARE REFERRED TO THE MARYLAND COORDINATE SYSTEM (NAD83/1991). ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - THE PROJECT IS WITHIN FEMA FLOODPLAIN LIMITS (ZONE AE). SHOWN ON FEMA FIRMS MAP #24027C0170D EFFECTIVE NOVEMBER 6, 2013.
 - WETLAND DELINEATION ALONG THE PROPOSED ALIGNMENT ONLY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC., DATED APRIL 29, 2021.
 - THERE ARE NON-TIDAL WETLANDS AND ASSOCIATED BUFFERS WITHIN THE PROJECT LIMITS. NECESSARY ENVIRONMENTAL DISTURBANCE REQUEST APPROVED BY HOWARD COUNTY, MARYLAND ON SEPTEMBER 30, 2021. MDE WETLANDS AND WATERWAYS PERMIT NO. 21-NW-3230. U.S. ARMY CORPS OF ENGINEERS PERMIT - MARYLAND STATE PROGRAMMATIC GENERAL PERMIT (TRACKING NO. 2021-51965).
 - THE PROJECT SITE IS NOT LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
 - 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 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 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 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.....800-252-1133
 BGE (CONTRACTOR SERVICES).....410-637-8713
 BGE (EMERGENCY).....410-685-0123
 BUREAU OF UTILITIES.....410-313-4900
 COLONIAL PIPELINE CO.....410-795-1390
 MASS UTILITY.....800-257-7777
 STATE HIGHWAY ADMINISTRATION.....410-531-5533
 VERIZON.....800-743-0033
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED OUTSIDE THE LIMIT OF DISTURBANCE 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.

SEQUENCE OF CONSTRUCTION

STEP	DESCRIPTION	DAY
STEP 1	ESTABLISH ALL PERMITS HAVE BEEN OBTAINED. PERMITS SHALL BE DISPLAYED ON SITE AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT.	1 DAY
STEP 2	CONTRACTOR SHALL CONTACT MISS UTILITY A MINIMUM OF 7 DAYS BEFORE PLACING CONSTRUCTION MATS OR INSTALLING TURN AROUNDs TO MARK THE LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ACCESS ROUTE. CONTRACTOR SHALL MAINTAIN CLEAR MARKINGS OF ALL UNDERGROUND UTILITY LOCATIONS THROUGHOUT THE PROJECT.	1 DAY
STEP 3	NOTIFY THE DEPARTMENT OF INSPECTIONS AND PERMITS (410-313-2455) FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING WORK, AND M.D.E. INSPECTIONS AND COMPLIANCE (501-565-2850) AT LEAST TEN (10) DAYS PRIOR TO COMMENCING ANY WORK. WORK MAY NOT COMMENCE UNTIL THE PERMITEE OR THE RESPONSIBLE PERSONNEL HAVE MET ON SITE WITH THE SEDIMENT AND EROSION CONTROL INSPECTOR TO REVIEW THE APPROVED PLANS.	1 DAY
STEP 4	HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES INCLUDING BUT NOT LIMITED TO SANTOS REALTY, LLC, REPRESENTATIVES, ENGINEERS, CONTRACTORS, UTILITY REPRESENTATIVES, GRADING INSPECTOR, ETC.	1 DAY
STEP 5	CLEAR PROJECT AREA OF ANY TRASH AND DEBRIS, DISPOSE OFF-SITE TO AN APPROVED DISPOSAL SITE.	2 DAYS
STEP 6	CONSTRUCT SEWER MAINS CONNECTIONS AS PER PLANS. OPEN TRENCHES SHALL BE BACKFILLED AND ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STABILIZATION NOTES ON SHEET 4 OF 4 AT THE END OF EACH WORK DAY. NO MORE THAN 3 PIPE LENGTHS OF TRENCH MAY BE OPEN AT ANY ONE TIME.	20 DAYS
STEP 7	PERMANENTLY STABILIZE THE PROJECT SITE ACCORDING TO SPECIFICATIONS.	2 DAYS
STEP 8	ONCE THE SITE IS FULLY STABILIZED AND APPROVED BY THE INSPECTOR, REMOVE SEWER MAIN PLUGS, AND SEDIMENT & EROSION CONTROL MEASURES. STABILIZE REMAINING AREAS DISTURBED.	2 DAYS
TOTAL:		30 DAYS



LOCATION MAP
SCALE: 1" = 600'

TYPE OF BUILDING:	SINGLE FAMILY HOMES (S.F.D)
NUMBER OF SEWER HOUSE CONNECTION (SHC):	4
NUMBER OF WATER HOUSE CONNECTION (WHC):	0
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER RECLAMATION PLANT

PROJECT INFORMATION

- OWNER/DEVELOPER: SANTOS REALTY, LLC. CONTACT: KENNETH SANTOS
- OWNER/DEVELOPER INFORMATION: 10772 TUCKER STREET BELTSVILLE, MD 20705 240-882-8144
- ENGINEER: BAYLAND CONSULTANTS & DESIGNERS, INC.
- ENGINEER INFORMATION: 7455 NEW RIDGE ROAD, SUITE T HANOVER, MARYLAND 21076 PH: 410-694-9401
- TAX MAP: 48
- PARCEL: 87 (10408), 97 (10412), 96 (10416)
- DEED REF: 20288/289 (10408), 16993/149 (10412), 20278/76 (10416)
- DISTRICT: 06
- ZONING: M-2
- USE: COMMERCIAL/RESIDENTIAL
- PROPERTY AREA: 3.87 ACRES (10408), 0.46 ACRES (10412), 0.45 ACRES (10416)
- WATERSHED: LITTLE PATUXENT RIVER
- MDE WETLANDS AND WATERWAYS PERMIT NUMBER: 21-NW-3230
- U.S. ARMY CORPS OF ENGINEERS PERMIT TRACKING NUMBER: 2021-61965

LEGEND

- EX. SEWER & MANHOLE
- EX. INDUSTRIAL WASTE
- EX. WATER & VALVE
- EX. FIRE HYDRANT
- PROPOSED TERMINAL MANHOLE
- PROPOSED SEWER HOUSE CONNECTION
- PROPOSED CLEANOUT

ABBREVIATIONS

- B.F. - BASEMENT FLOOR
- C.E. - CELLAR ELEVATION
- CO - CLEANOUT
- CONTR. - CONTRACT
- ELEV. - ELEVATION
- EX. - EXISTING
- F.F. - FINISHED FLOOR
- FT - FEET
- HO. CO. - HOWARD COUNTY
- INV. - INVERT
- LF - LINEAR FEET
- SHC - SEWER HOUSE CONNECTION
- STD. - STANDARD
- STA. - STATION
- TY. - TYPICAL
- WHC - WATER HOUSE CONNECTION

SEWER SERVICE AS-BUILT LOCATION TABLE

SHC NO.	STREET ADDRESS	LOCATION DIMENSION #1	LOCATION DIMENSION #2
1	10408 GUILFORD ROAD (TRAILER)	M-3 31.0'	M-4 95.0'
2	10408 GUILFORD ROAD (VACANT)	M-4 14.0'	Garage Corner 27.0'
3	10412 GUILFORD ROAD	M-4 12.0'	Garage Corner 6.5'
4	10416 GUILFORD ROAD	M-3 15.0'	M-2 153.0'

OWNER'S/DEVELOPER'S CERTIFICATION

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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 INSPECTIONS BY THE HOWARD COUNTY CONSERVATION DISTRICT.

ENGINEER'S 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. 14920, EXPIRATION DATE: 05/12/2022.

John H. Heinrichs 1/21/22
 ENGINEER'S SIGNATURE DATE
 JOHNIE RAY HEINRICHS
 PRINTED NAME

Kenneth Santos
 OWNER/DEVELOPER SIGNATURE DATE
 KENNETH SANTOS
 PRINTED NAME

GP-22-024

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT

Alexander Butchko 02/07/22
 CHIEF, BUREAU OF UTILITIES DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS

 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: DEPARTMENT OF PUBLIC WORKS

[Signature] 1-23-23
 CHIEF, BUREAU OF UTILITIES DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 2-23-23
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Bayland
Consultants & Designers, Inc.
 "Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401
 Hanover, Maryland 21076 Fax: (410) 694-9405
 www.baylandinc.com

BAYLAND JOB NO. 8_37301



DESIGNED BY:	DATE			
JH	01/21/22			
DRAWN BY:	DATE			
KR				
CHECKED BY:	DATE			
JH				
DATE:	BY:	NO.:	REVISION:	DATE:
01/21/22	JH			

SEWER MAIN EXTENSION

COVER SHEET

600 SCALE MAP NO. 20 BLOCK NO. 7

GUILFORD ROAD PROPERTIES

10408, 10412 AND 10416

TAX MAP 48 GRID 7 PARCEL 87, 97, & 96

ZONE: M-2 ELECTION DISTRICT: 6TH

HOWARD COUNTY, MARYLAND

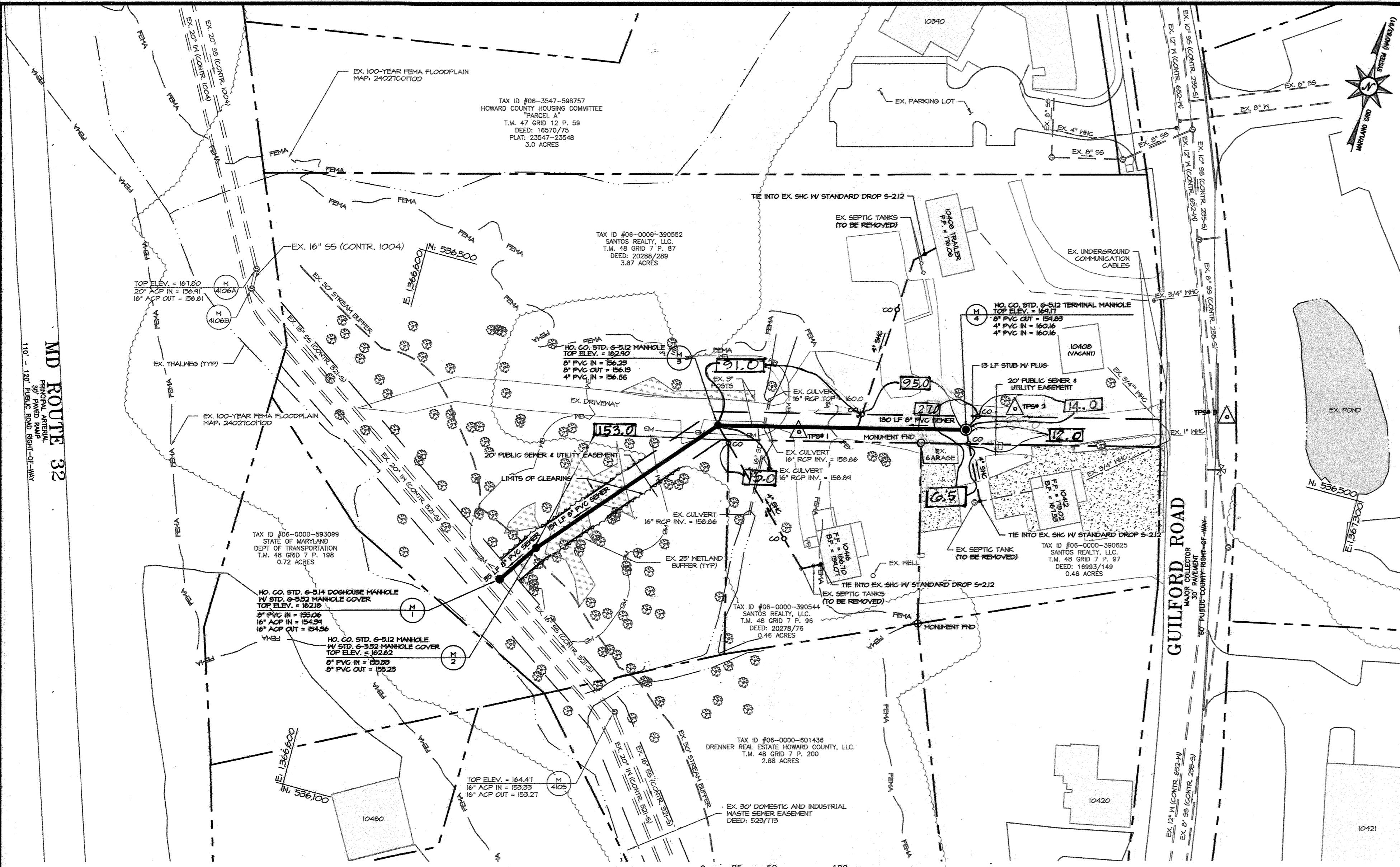
CONTRACT NO. 24-5183-D

SCALE: AS NOTED

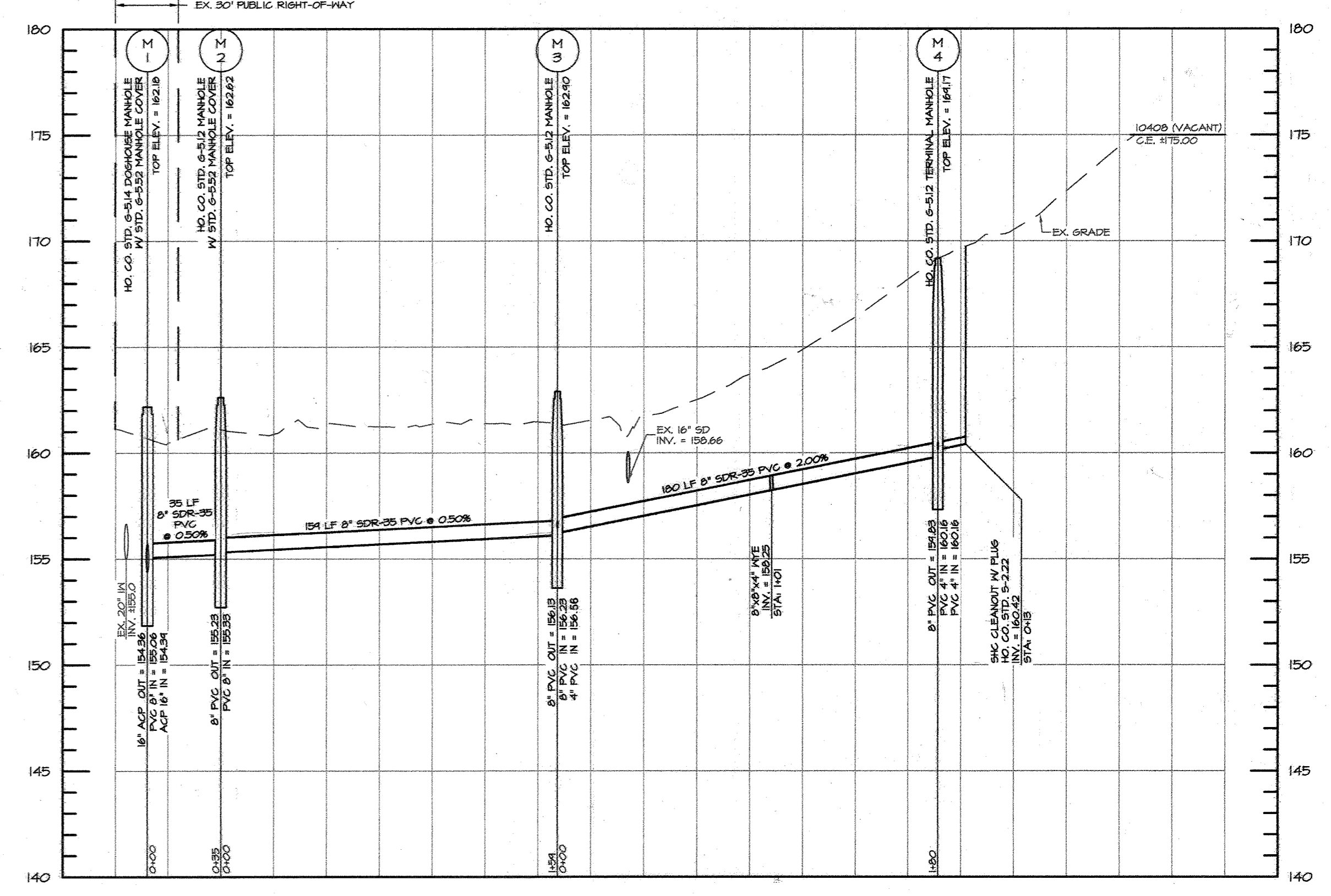
SHEET NO. 1 OF 4

SEWER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS	COORDINATES
M 1	HO. CO. STD. G-5.14 DOGHOUSE MANHOLE W/ STD. G-5.52 MANHOLE COVER RIM = 162.19 8" PVC INV IN = 155.06 16" ACP INV OUT = 154.39 16" ACP INV OUT = 154.36	N: 536284.19 E: 1366713.37
M 2	HO. CO. STD. G-5.12 MANHOLE W/ STD. G-5.52 MANHOLE COVER RIM = 162.62 8" PVC INV IN = 155.33 8" PVC INV OUT = 155.23	N: 536312.88 E: 1366732.99
M 3	HO. CO. STD. G-5.12 MANHOLE W/ STD. G-5.52 MANHOLE COVER RIM = 162.90 8" PVC INV IN = 156.23 4" PVC INV IN = 156.56 8" PVC INV OUT = 156.13	N: 536432.78 E: 1366837.78
M 4	HO. CO. STD. G-5.12 TERMINAL MANHOLE RIM = 169.17 4" PVC INV IN = 160.16 4" PVC INV IN = 160.16 8" PVC INV OUT = 159.83	N: 536476.16 E: 1367012.47



PLAN VIEW
SCALE: 1" = 50'
1 INCH = 50 FEET



PROFILE PR. MAIN SEWER LINE

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

SEWER HOUSE CONNECTION CHART

NOTE: SEWER HOUSE CONNECTIONS OUTSIDE THE UTILITY EASEMENT ARE TO BE PRIVATE

STATION	LOT/ADDRESS	INVERT AT MAIN/MANHOLE	INVERT AT EASEMENT	INVERT AT SHC	M.C.E	B.F.	F.F.	NOTES
1+06.76	10408 (TRAILER)	158.25	158.46	161.20	163.70	-	176.06	SHC @ 2.0%
MANHOLE M4	10408 (VACANT)	160.16	160.42	-	-	-	-	SHC @ 2.0%
MANHOLE M4	10412	160.16	160.36	161.99	164.49	167.53	175.02	SHC @ 2.0%
MANHOLE M3	10416	156.56	156.71	157.90	160.40*	159.07	166.70	SHC @ 1.0%

* EXISTING SHC INVERT FOR 10416 AT THE BUILDING WALL IS ±161.1

ENGINEER'S CERTIFICATION

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

John H. Heinrichs

JOHNNIE RAY HEINRICHS
PRINTED NAME

1/21/22
DATE

OWNER'S/DEVELOPER'S CERTIFICATION

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Kenneth Santos

KENNETH SANTOS
PRINTED NAME

DATE

GP-22-024

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Alexander Butcher

ALEXANDER BUTCHER
CHIEF, BUREAU OF UTILITIES
DATE: 02/07/22

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature]

DATE: 1-24-22

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature]

DATE: 2-23-22

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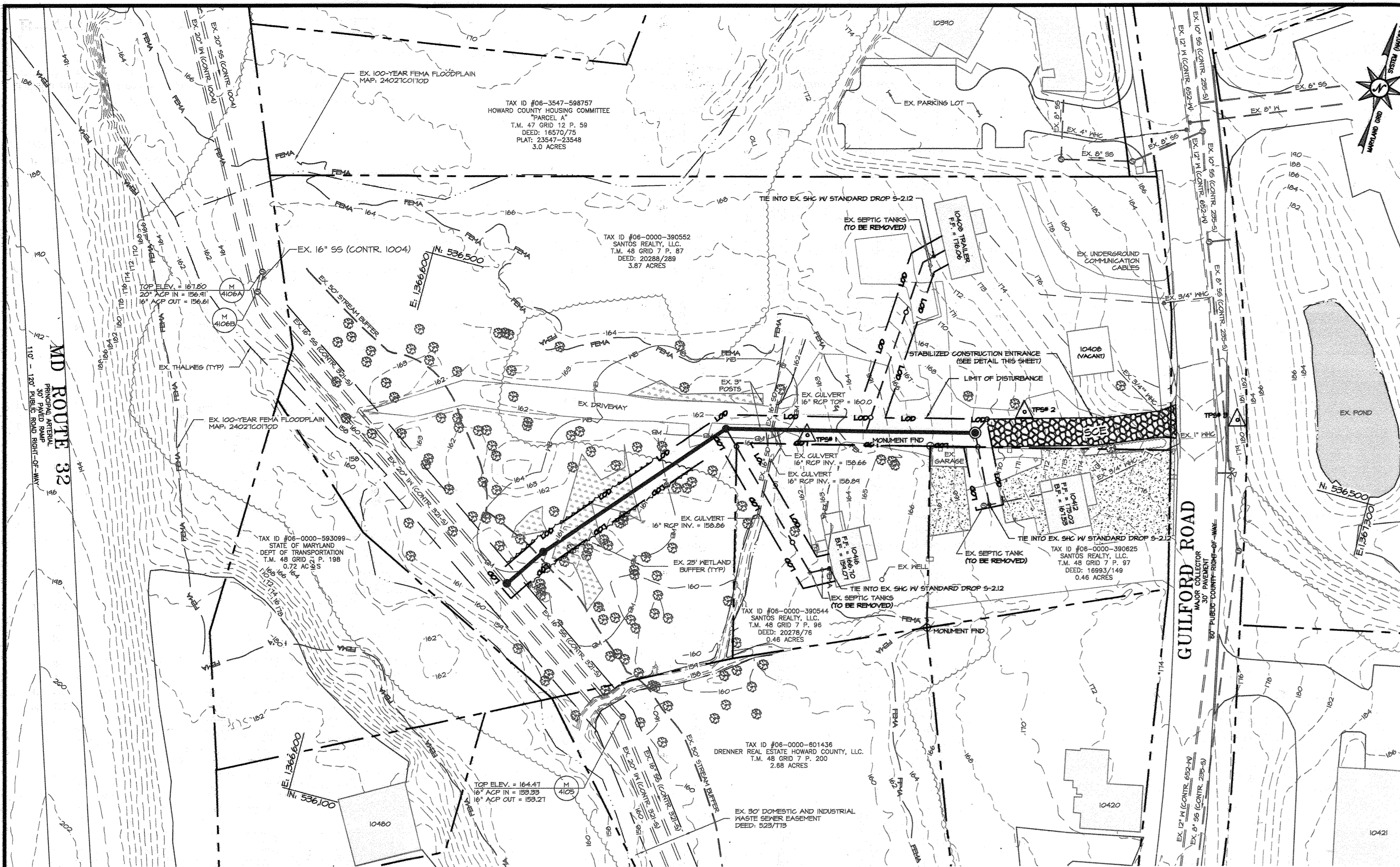


DESIGNED BY:	JH
DRAWN BY:	KR
CHECKED BY:	JH
DATE: 01/21/22	BY: WRA 1 AS-BUILT
REVISION	DATE: 1/26/24

SEWER MAIN EXTENSION
PLAN & PROFILE
600 SCALE MAP NO: 20 BLOCK NO: 7

GUILFORD ROAD PROPERTIES
10408, 10412 AND 10416
TAX MAP 48 GRID 7 PARCEL 87, 97, & 96
ZONE: M-2 ELECTION DISTRICT: 6TH
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-5183-D

SCALE: AS NOTED
SHEET NO. 2 OF 4



EROSION SEDIMENT CONTROL PLAN
 SCALE: 1" = 50'
 1 INCH = 50 FEET

LEGEND

- TRAVERSE POINT
- EX. PROPERTY LINE/RIGHT-OF-WAY
- EX. EASEMENT
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. EDGE OF WATER
- EX. TREE LINE
- EX. WOOD FENCE
- EX. THALWEG
- EX. 100-YR FEMA FLOODPLAIN
- EX. 25' WETLAND BUFFER
- EX. 50' STREAM BUFFER
- EX. WETLANDS
- EX. SEWER & MANHOLE
- EX. INDUSTRIAL WASTE
- EX. WATER & VALVE
- EX. STORM DRAIN
- EX. TREE
- EX. LIGHT POLE
- EX. UTILITY POLE
- EX. FIRE HYDRANT
- PROPOSED TERMINAL MANHOLE
- PROPOSED SEWER AND MANHOLE CONNECTION
- PROPOSED CLEANOUT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE

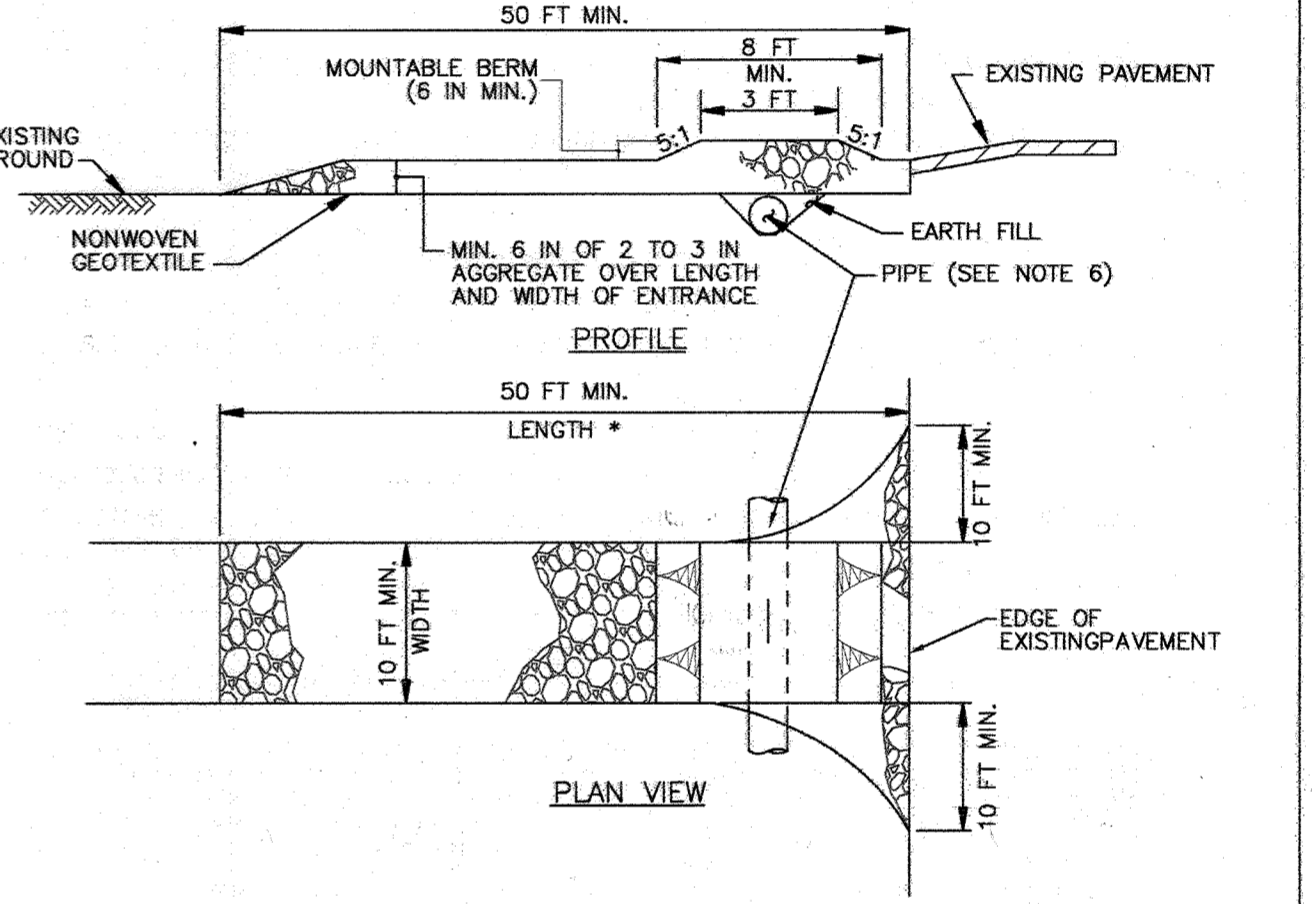
SEDIMENT CONTROL NOTES

1. STABILIZED CONSTRUCTION ENTRANCE TO BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.
2. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH STABILIZATION NOTES ON SHEET 4 OF 4 AT THE END OF EACH WORK DAY.

BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS

1. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED, USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, OR WATERWAYS, OR PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.
6. RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
7. ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.), AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
8. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST-CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS.
9. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM:
 - USE I WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.
 - USE II WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD OCTOBER 1 THROUGH APRIL 30, INCLUSIVE, DURING ANY YEAR.
 - USE IV WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH MAY 31, INCLUSIVE, DURING ANY YEAR.
10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAY.
11. CULVERTS SHALL BE CONSTRUCTED, AND ANY RIPRAP PLACED, SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER.

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE TO FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

ENGINEER'S CERTIFICATION

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

John H. Heinrichs
 JOHNIE RAY HEINRICHS
 PRINTED NAME

OWNER'S/DEVELOPER'S CERTIFICATION

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

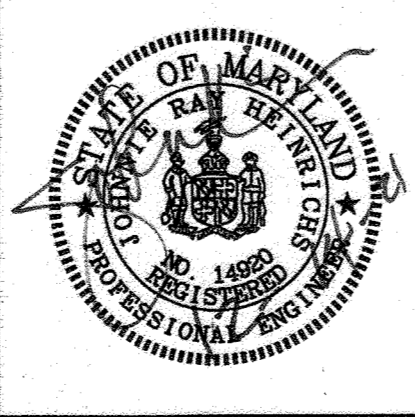
Kenneth Santos
 KENNETH SANTOS
 PRINTED NAME

GP-22-024
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Alvin Butcher
 HOWARD SOIL CONSERVATION DISTRICT
 DATE: 02/10/22

APPROVED: DEPARTMENT OF PUBLIC WORKS
Chris...
 CHIEF, BUREAU OF UTILITIES
 DATE: 1-25-22

APPROVED: DEPARTMENT OF PLANNING AND ZONING
...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 2-23-22

Bayland
Consultants & Designers, Inc.
 "Integrating Engineering and Environment"
 7455 New Ridge Road, Suite T Phone: (410) 694-9401
 Hanover, Maryland 21076 Fax: (410) 694-9405
 www.baylandinc.com
 BAYLAND JOB NO. 8_37301



DESIGNED BY:	JH
DRAWN BY:	KR
CHECKED BY:	JH
DATE: 01/21/22	BY NO. REVISION

SEWER MAIN EXTENSION	DATE
EROSION SEDIMENT CONTROL PLAN	600 SCALE MAP NO. 20 BLOCK NO. 7

GUILFORD ROAD PROPERTIES
 10408, 10412 AND 10416
 TAX MAP 48 GRID 7 PARCEL 87, 97, & 96
 ZONE: M-2 ELECTION DISTRICT: 6TH
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-5183-D

SCALE: AS NOTED
 SHEET NO. 3 OF 4

