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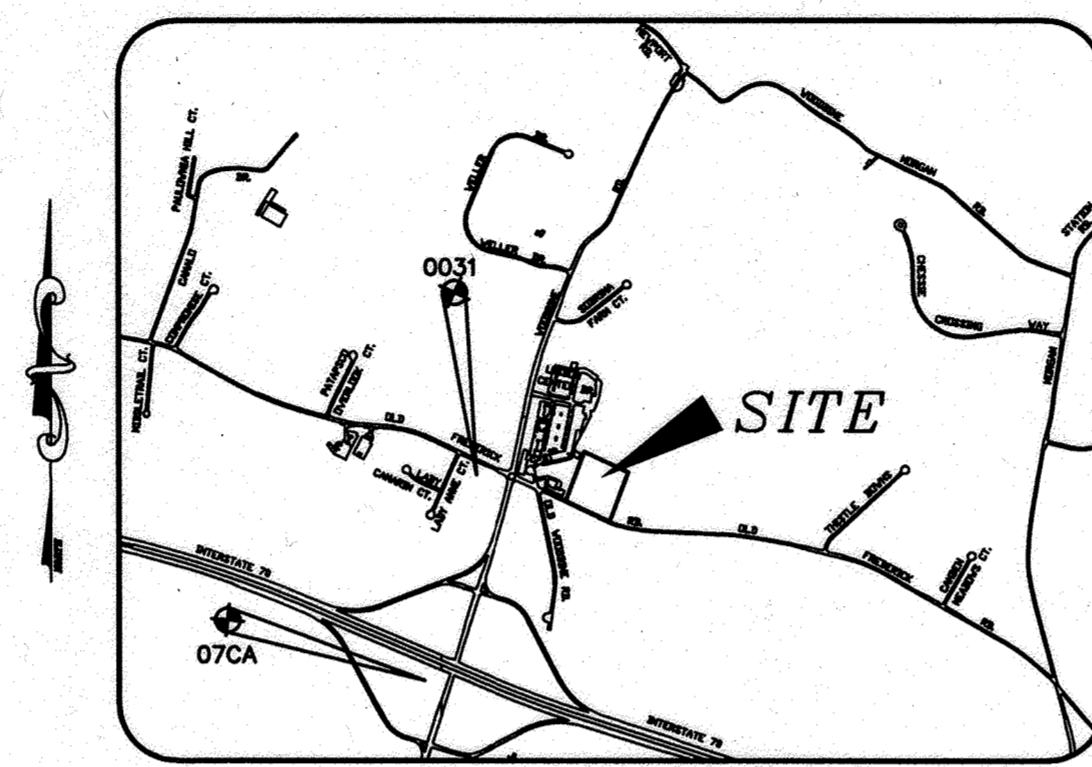
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# SITE DEVELOPMENT PLAN

## WILSON VILLAGE LOTS: 1-3

### FOURTH ELECTION DISTRICT

### HOWARD COUNTY, MARYLAND

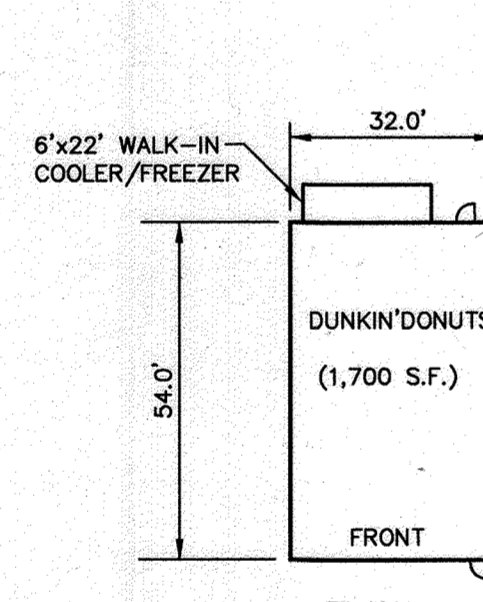


**VICINITY MAP**  
1" = 2000'  
ADC MAP 9 GRID B4

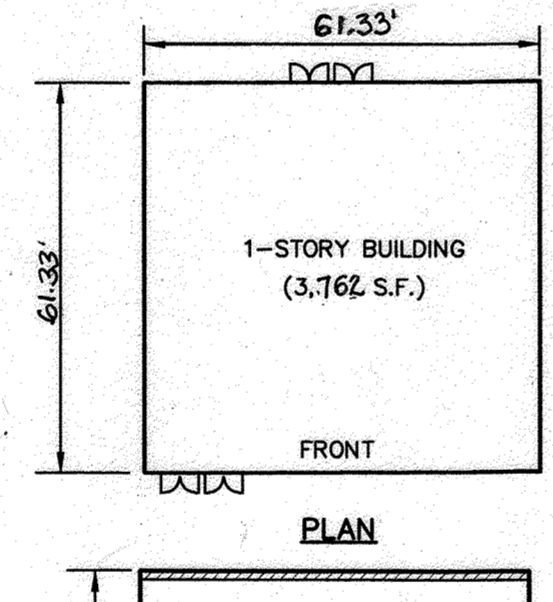
37. THIS PLAN IS SUBJECT TO WP-19-127, SEEKING AN ALTERNATIVE COMPLIANCE TO SECTIONS 16.156(a)(2) WHICH STATES IF THE DEVELOPER DOES NOT APPLY FOR BUILDING PERMITS AS REQUIRED BY PARAGRAPH (1) OF THIS SUBSECTION, THE SITE DEVELOPMENT PLAN SHALL EXPIRE AND A NEW SITE DEVELOPMENT PLAN SUBMISSION WILL BE REQUIRED. THIS ALTERNATIVE COMPLIANCE WAS APPROVED ON AUGUST 2, 2019, SUBJECT TO THE FOLLOWING CONDITIONS:
- THE PETITIONER MUST APPLY WITH THE DEPARTMENT OF LICENSED, INSPECTION AND PERMITS FOR PERMIT TO INITIATE CONSTRUCTION ON THE SUBJECT PROPERTY WITHIN 1 YEAR FROM THE APPROVAL OF THIS ALTERNATIVE COMPLIANCE PETITION (ON OR BEFORE AUGUST 2, 2020). THE PETITIONER SHALL APPLY FOR BUILDING PERMITS FOR ALL BUILDINGS SHOWN ON SDP-14-021 WITHIN 2 YEARS FROM THIS APPROVAL (ON OR BEFORE AUGUST 2, 2021).
  - A REDLINE REVISION TO SDP-14-021 MUST BE SUBMITTED TO THIS DEPARTMENT TO ENSURE THAT ALL THE SITE DEVELOPMENT STANDARDS ARE CURRENT.
  - COMPLIANCE WITH THE DEVELOPMENT ENGINEERING DIVISION COMMENTS DATED JULY 16, 2019.
  - COMPLIANCE WITH THE HEALTH DEPARTMENT'S COMMENTS DATED JULY 19, 2019.
  - FULFILLMENT OF ANY APPLICABLE AMENDMENTS TO THE DPW DEVELOPER AGREEMENT ASSOCIATED WITH THIS DEVELOPMENT UNDER SDP-14-021.
  - INCLUDE THIS ALTERNATIVE COMPLIANCE PETITION DECISION AS A GENERAL NOTE ON THE SDP (AS PART OF THE REDLINE REVISION). THIS NOTE SHALL INCLUDE THE ALTERNATIVE COMPLIANCE PETITION FILE NUMBER, THE REGULATORY SECTION, THE DECISION DATE AND THE CONDITIONS OF APPROVAL.
38. A SHARED PARKING AGREEMENT BETWEEN LOTS 1-3 SHALL BE RECORDED WITH THE LAND RECORDS OFFICE.
39. ALL OUTSIDE LIGHTING SHALL COMPLY WITH SECTION 134 OF THE ZONING REGULATIONS WHICH REQUIRES LIGHTS TO BE INSTALLED TO DIRECT/REFLECT LIGHT DOWNWARDS AND INWARDS ON THE SITE AND AWAY FROM ALL PUBLIC STREETS AND RESIDENTIAL AREAS. LIGHT TRESPASS ONTO ADJOINING RESIDENTIAL PROPERTIES SHALL BE LIMITED AT 0.1 FOOT CANDLES.
40. THIS SITE DEVELOPMENT PLAN IS NOT SUBJECT TO COUNCIL BILL 62-2019 (FOREST CONSERVATION ACT) BECAUSE IT WAS ORIGINALLY SIGNED ON OCTOBER 30, 2015 WHICH IS PRIOR TO THE FEBRUARY 5, 2020 ENACTMENT DATE OF THIS BILL.
41. THE EXISTING WELL (TAG NO HO-95-2691) WAS FIELD LOCATED AND IT IS CORRECTLY SHOWN ON THE PLAN.

**GENERAL NOTES**

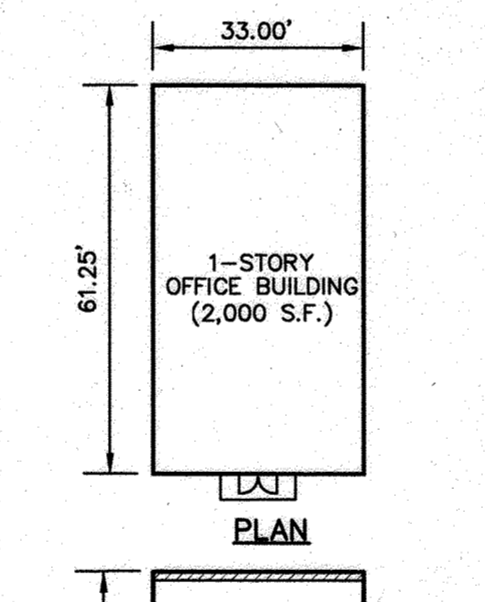
- THE SUBJECT PROPERTY IS ZONED B-2, PER THE COMPREHENSIVE ZONING PLAN, MAPS AND AMENDED REGULATIONS EFFECTIVE ON 10/06/13.
- THIS SITE DEVELOPMENT PLAN IS FOR THREE (3) INDEPENDENT LOTS WITH THREE SEPARATE WELLS AND SEWAGE DISPOSAL SYSTEMS.
- SITE ANALYSIS DATA:**  
LOCATION: TAX MAP: 7 GRID: 6 PARCEL: 478  
ELECTION DISTRICT: FOURTH  
ZONING: B-2  
TOTAL AREA: 5.89 AC.±  
LIMIT OF DISTURBED AREA: 4.73 AC.± (INCLUDING OFFSITE)  
PROPOSED USE FOR SITE: 2 OFFICE BUILDINGS, FAST-FOOD RESTAURANT, VETERINARY CLINIC  
BUILDING COVERAGE: 11,700 S.F. (4.56% OF SITE)  
GROSS FLOOR AREA: 11,700 S.F.  
REQUIRED PARKING: (OFFICE)-3.3 SPACES/1,000 S.F. (6,500x3.3=22)  
(VETERINARY CLINIC)-4 SPACES/1,000 S.F. (3,500x4=14)  
(DUNKIN' DONUTS)-14 SPACES/1,000 S.F. (1,700x14=24)  
TOTAL REQUIRED PARKING: 60 SPACES  
PROVIDED PARKING: 81 SPACES  
DEED REFERENCE: 08084 / 00137  
PREVIOUS DPZ FILES: F-78-03, SDP-92-77, ECP-13-050, SDP-14-021, F-20-028, WP-19-127
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH 2-FOOT CONTOUR INTERVALS PREPARED BY FISHER, COLLINS & CARTER, INC. DATED SEPTEMBER, 2005. OFFSITE TOPOGRAPHY BASED ON HOWARD COUNTY GIS. EXISTING TOPOGRAPHY AND SITE FEATURES WERE FIELD VERIFIED BY MILDENBERG, BOENDER & ASSOC., INC. ON OR ABOUT JANUARY, 2013.
- THE BOUNDARY SHOWN IS TAKEN FROM FIELD RUN SURVEY WITH 2-FOOT CONTOUR INTERVALS PREPARED BY FISHER, COLLINS & CARTER, INC. DATED SEPTEMBER, 2005 AND CONFIRMED BY MILDENBERG, BOENDER & ASSOC., INC. IN JANUARY, 2013.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM, HOWARD COUNTY MONUMENT NO: 07CA & 0031 WERE USED FOR THIS PROJECT.  
STA. No. 07CA N 610,231.3284 E 1,292,224.3055 EL. 619.312  
STA. No. 0031 N 612,408.1774 E 1,292,800.7066 EL. 632.207
- EXISTING UTILITIES ARE TAKEN FROM FIELD RUN SURVEY PREPARED BY FISHER, COLLINS & CARTER, INC. DATED SEPTEMBER, 2005.
- WATER IS PRIVATE.
- SEWER IS PRIVATE.
- THERE ARE NO STEEP SLOPES OR FLOODPLAINS ON THIS SITE.
- THERE ARE NO STREAMS, WETLANDS, OR THEIR ASSOCIATED BUFFERS ON THIS SITE.
- BASED ON AVAILABLE COUNTY DATA, NO HISTORIC STRUCTURES OR BURIAL GROUNDS EXIST ON SITE.
- THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT.
- FOREST STAND DELINEATION WAS PREPARED BY ECO-SCIENCE, INC. IN FEBRUARY, 2013, FOLLOWED BY FIELD REVIEW ON ARCH 2018 TO ASSESS THE ENVIRONMENTAL CONDITIONS ON THE SITE. SEE SHEET 6 FOR ADDITIONAL FOREST CONSERVATION DETAILS.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP, INC. DATED JANUARY, 2013 AND WAS APPROVED ON JUNE 24, 2014.
- THE EXISTING STRUCTURE AND EXISTING PAVEMENT ONSITE SHALL BE REMOVED. THE EXISTING TRAILER AND PARKING LOT WERE CONSTRUCTED UNDER SDP-92-77.
- STORMWATER MANAGEMENT REQUIREMENTS WILL BE SATISFIED VIA MICRO-BIORETENTION (M-6) AND MODIFIED DRY WELL, STORMTECH 740 SYSTEM. ALL FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.
- THE FOREST CONSERVATION OBLIGATIONS PER SECTION 16.1202 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION HAS BEEN FULFILLED BY PROVIDING AFFORESTATION OF 0.65 ACRES AND BY PLACEMENT OF 0.83 ACRES OF REQUIRED OBLIGATION INTO AN OFF-SITE EASEMENT ON PROPERTY IDENTIFIED AS THE ROSEBAR PROPERTY, PRESERVATION PARCEL "A", LOCATED ON TAX MAP NO. 14 AND IDENTIFIED AS PARCEL 221, SITUATED ON THE WEST SIDE OF HOBBS ROAD. THE ROSEBAR FOREST CONSERVATION EASEMENT HAS BEEN SHOWN ON SHEET 18 OF SDP-97-115, NEW COLONY VILLAGE. FINANCIAL SURETY FOR THE ON-SITE AFFORESTATION IN THE AMOUNT OF \$14,157.00 WILL BE POSTED AS PART OF DEVELOPER AGREEMENT. SURETY FOR THE OFF-SITE FOREST CONSERVATION EASEMENT ON ROSEBAR PROPERTY HAS BEEN PREVIOUSLY POSTED BY THE OWNER OF THE EASEMENT. A PLAT OF FOREST CONSERVATION FOR THE 0.65 AC OF AFFORESTATION WAS RECORDED UNDER FINAL PLAN F-20-028.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW PAVING OR STRUCTURES IS PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR BUFFERS, AND FOREST CONSERVATION EASEMENT AREAS.
- FINANCIAL SURETY FOR THE REQUIRED PERIMETER AND PARKING LOT LANDSCAPING IN THE AMOUNT OF \$19,710 FOR 40 SHADE TREES, 26 EVERGREEN TREES AND 127 SHRUBS SHALL BE POSTED WITH THE DEVELOPER'S AGREEMENT FOR THIS SITE DEVELOPMENT PLAN.
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS (COUNCIL BILL 45-2003). DEVELOPMENT OR CONSTRUCTION OF THIS SITE MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION OR BUILDING/GRADING PERMIT.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 48 HOURS PRIOR TO EXCAVATION WORK BEING DONE.  
MISS UTILITY 800-257-7777  
VERIZON TELEPHONE COMPANY (410) 725-9976  
HOWARD COUNTY BUREAU OF UTILITIES (410) 313-4900  
AT&T CABLE LOCATION DIVISION (410) 393-3533  
BALTIMORE GAS AND ELECTRIC (410) 685-0123  
STATE HIGHWAY ADMINISTRATION (410) 531-5533
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410)313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- ANY DAMAGE TO THE COUNTY RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING PLANT MATERIALS, FENCES AND WALLS. PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- HOWARD COUNTY STANDARD R-3.03 TO BE USED TO CONSTRUCT BARRIER CURB.
- A KNOX BOX (FIRE DEPARTMENT ACCESS BOX) IS REQUIRED TO BE PLACED ON THE FRONT OF THE BUILDING(S). IT SHALL BE PLACED TO THE RIGHT OF THE MAIN ENTRANCE AT A RANGE OF 4'-5" IN HEIGHT AND NO MORE THAN 6' LATERALLY FROM THE DOOR. THE BOX SHALL BE ELECTRONICALLY SUPERVISED TO NOTIFY THE OWNER THAT IT IS BEING ACCESSED (INTEGRATED WITH THE FIRE ALARM SYSTEM). NFPA-1 10.12.1
- MAXIMUM BUILDING HEIGHT IN THE B-2 ZONING DISTRICT IS 40-FEET PER THE COMPREHENSIVE ZONING PLAN, EFFECTIVE 10/6/2013. NO BUILDING WITHIN THIS DEVELOPMENT WILL EXCEED 24 FEET IN HEIGHT.
- PRE-SUBMISSION COMMUNITY MEETING WAS HELD ON DECEMBER 5, 2013 AT GLENWOOD LIBRARY AT 6:00 PM.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- THE WELLS MUST BE DRILLED BEFORE THE PLAT RECORDED (F-20-028)
- THE BAT SYSTEMS HAVE BEEN INDIVIDUALLY ENGINEERED FOR THE SITE AND HAS BEEN APPROVED BY THE HOWARD COUNTY HEALTH DEPARTMENT AND THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE).
- THE BAT SYSTEMS ARE COVERED BY A SERVICE CONTRACT THAT THE PROPERTY OWNERS MAINTAIN WITH A CERTIFIED SERVICE PROVIDER. THE OWNER SHALL ENSURE THAT THE BAT SYSTEM IS INSPECTED AND HAS NECESSARY OPERATION AND MAINTENANCE PERFORMED AT A MINIMUM OF ONCE PER QUARTER. A CERTIFIED SERVICE PROVIDER SHALL REPORT ON INSPECTION, OPERATION AND MAINTENANCE ACTIVITIES TO MDE, OR MDE'S DESIGNEE, IN A MANNER ACCEPTABLE TO MDE ON A YEARLY BASIS PRIOR TO THE YEARLY ANNIVERSARY OF THE DATE OF INSTALLATION. THE CERTIFIED SERVICE PROVIDER SHALL HAVE A CERTIFICATE OF QUALIFICATION FROM THE MANUFACTURER OF THE BAT SYSTEM BEING SERVICED.



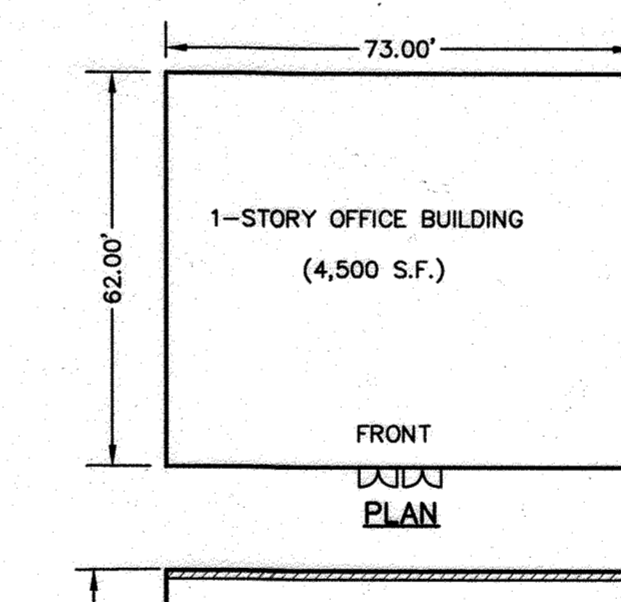
**DUNKIN' DONUTS**  
SCALE: 1"=30'



**VETERINARY CLINIC**  
SCALE: 1"=30'



**OFFICE BUILDING #1**  
SCALE: 1"=30'



**OFFICE BUILDING #2**  
SCALE: 1"=30'

**STORMWATER MANAGEMENT PRACTICES**

ADDRESS	DRY WELLS (M-5) NUMBER	MICRO-BIORETENTION (M-6) NUMBER
15870 OLD FREDERICK ROAD	0	2
15860 OLD FREDERICK ROAD	0	1
15850 OLD FREDERICK ROAD	0	1
15840 OLD FREDERICK ROAD	1	1

**ADDRESS CHART**

BUILDING #	ADDRESS
DUNKIN DONUT	15870 OLD FREDERICK ROAD
VETERINARY CLINIC	15860 OLD FREDERICK ROAD
OFFICE BUILDING #1	15850 OLD FREDERICK ROAD
OFFICE BUILDING #2	15840 OLD FREDERICK ROAD

**PERMIT INFORMATION BLOCK**

SUBDIVISION NAME:	SECTION/AREA:	PARCEL:			
SOBRINA 99, INC. PROPERTY	N/A	478			
PLAT NO.	BLOCK(S)	ZONING	TAX MAP NO.	ELECTION DISTRICT	CENSUS TRACT
25895-96	6	B-2	7	4TH	6040.01

**ENGINEER'S CERTIFICATION**  
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DESIGNER'S SIGNATURE: *SAM ALGER* DATE: 01/03/2023  
PRINTED NAME: SAM ALGER MD REGISTRATION NO. (P.E.): 28859

**OWNER/DEVELOPER CERTIFICATION**  
I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY THAT I AM THE OWNER OR A REPRESENTATIVE OF THE OWNER OF THE PROPERTY AND I AM AUTHORIZED TO SIGN FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

OWNER'S/DEVELOPER'S SIGNATURE: *Dimitri Boender* DATE: 6/1/23  
PRINTED NAME & TITLE: Dimitri Boender, OWNER

**HOWARD SCD SIGNATURE BLOCK**  
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
Signature: *Alexander Brathie* DATE: 07/05/23  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 7-27-23  
CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 8/3/23  
DIRECTOR: *[Signature]* DATE: 8/3/23

**REVISION PURPOSE:**  
7-27-23: THE PURPOSE OF THE REVISED SUBMISSION IS TO REPLACE BUILDING 1 ON LOT 2 WITH A 3800 S.F. 1-STORY OFFICE BUILDING AND 2000 S.F. OFFICE BUILDING. ALSO ELIMINATE PARKING IN THE BACK OF BUILDING 1. IT ALSO REDUCES THE SIZE OF BUILDING 2 ON LOT 3 TO 4,500 S.F.

Approved for Private water and Private Sewage Systems  
County Health Officer: *[Signature]* DATE: 7/11/23  
Howard County Health Department  
OWNER: *[Signature]*

WOODBINE GRANTLY, LLC  
8318 FOREST ST, SUITE 200  
ELLIOTT CITY, MARYLAND 21043  
(410)992-4600

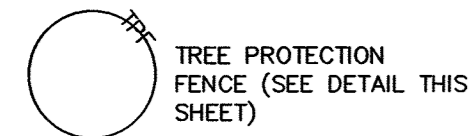
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 28859, EXP. DATE 06/08/25  
SWER A. ALGER, P.E. DATE: 06/21/2023

Project	20-026	date	JUNE 2023
Illustration	MMM	engineering	MMM
scale	MMM	approval	MMM
1"=30'			

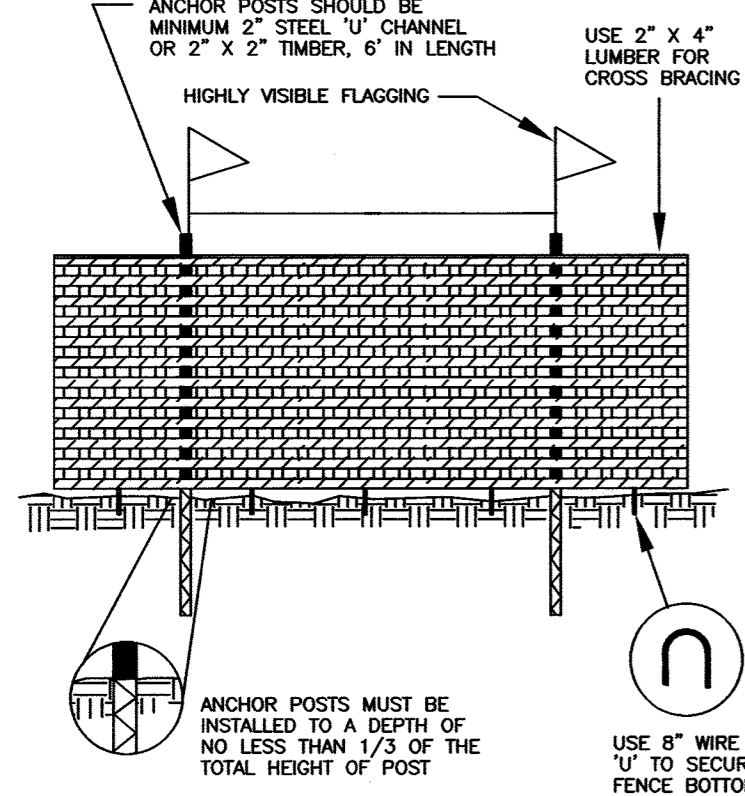
1	REV. BUILDING DIMENSIONS VET. CLINIC	9/20/23	
		description	date
		revisions	

**REVISÉ**  
**WILSON VILLAGE LOTS: 1-3**  
 15850 OLD FREDERICK ROAD, WOODBINE, MD  
 TAX MAP 7 GRID 6 PARCEL 478  
 HOWARD COUNTY, MARYLAND  
 4th ELECTION DISTRICT  
**COVER SHEET**

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Surveyors  
 Engineers  
 Planners  
 7830-B Crane Drive, Columbia, Maryland 21044  
 (410) 997-0296 Fax: (410) 997-0298 Fax



**TREE PROTECTION FENCE DETAIL**  
BLAZE ORANGE PLASTIC MESH



- NOTES**
1. FENCE PROTECTION DEVICE ONLY.
  2. RETENTION AREA WILL BE SET AS PART OF THE REMEDIATION PROCESS.
  3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
  4. ROOT DAMAGE SHOULD BE AVOIDED.
  5. PROTECTIVE STORAGE MAT ALSO BE USED.
  6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

**LEGEND**

- EXISTING SEWAGE DISPOSAL AREA TO BE ABANDONED PART OF THE REVISION TO PLAT 3763 (F-78-03). EXISTING SEWAGE DISPOSAL AREA IS TO BE PROPERLY ABANDONED WITH NOTIFICATION SENT TO THE HEALTH DEPARTMENT.
- NEW SEWAGE DISPOSAL AREA APPROVED UNDER PERCOLATION PLAT SIGNED AUGUST 11, 2020.

--- LOD --- LIMIT OF DISTURBANCE (LOD) - SEE SHEET 4 FOR EROSION AND SEDIMENT CONTROL FEATURES



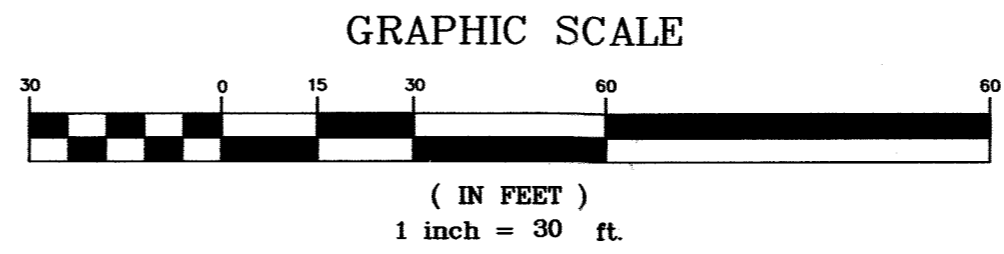
**OWNER**  
WOODBINE BRANTLY, LLC  
8318 FOREST ST. SUITE 200  
ELLICOTT CITY, MARYLAND 21043  
(410)992-4600

CTR PROPERTIES, LLC  
LIBER 10724, FOLIO 695  
TAX MAP 7, PARCEL 353 ZONED: RC-DEO

CHRISTOPHER JORDAN  
NICHOLE HESENPERGER  
LIBER 13489, FOLIO 251  
TAX MAP 7, PARCEL 393  
ZONED: RC-DEO

WAYNE ELSETH & SUSAN ELSETH  
LOT 4  
HONG PROPERTY  
PLAT NO. 9864  
L 5496 / F 0099  
ZONED: RC-DEO

**OLD FREDERICK ROAD**  
COUNTY OWNED - MAJOR COLLECTOR  
(80' ROW)



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
*[Signature]* 8/23/21  
DATE  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT  
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 8/16/21  
DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
CHIEF, DIVISION OF LAND DEVELOPMENT  
*[Signature]* 11/9/21  
DATE  
*[Signature]* 11/9/21  
DATE

STATE OF MARYLAND  
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. 28859, EXP. DATE 08/08/23  
SAMER A. ALOMER, P.E.  
DATE: 7/20/21

date	JULY 2021	engineering	MM	approval	SAA
project	20-026	illustration	MM	scale	1"=30'

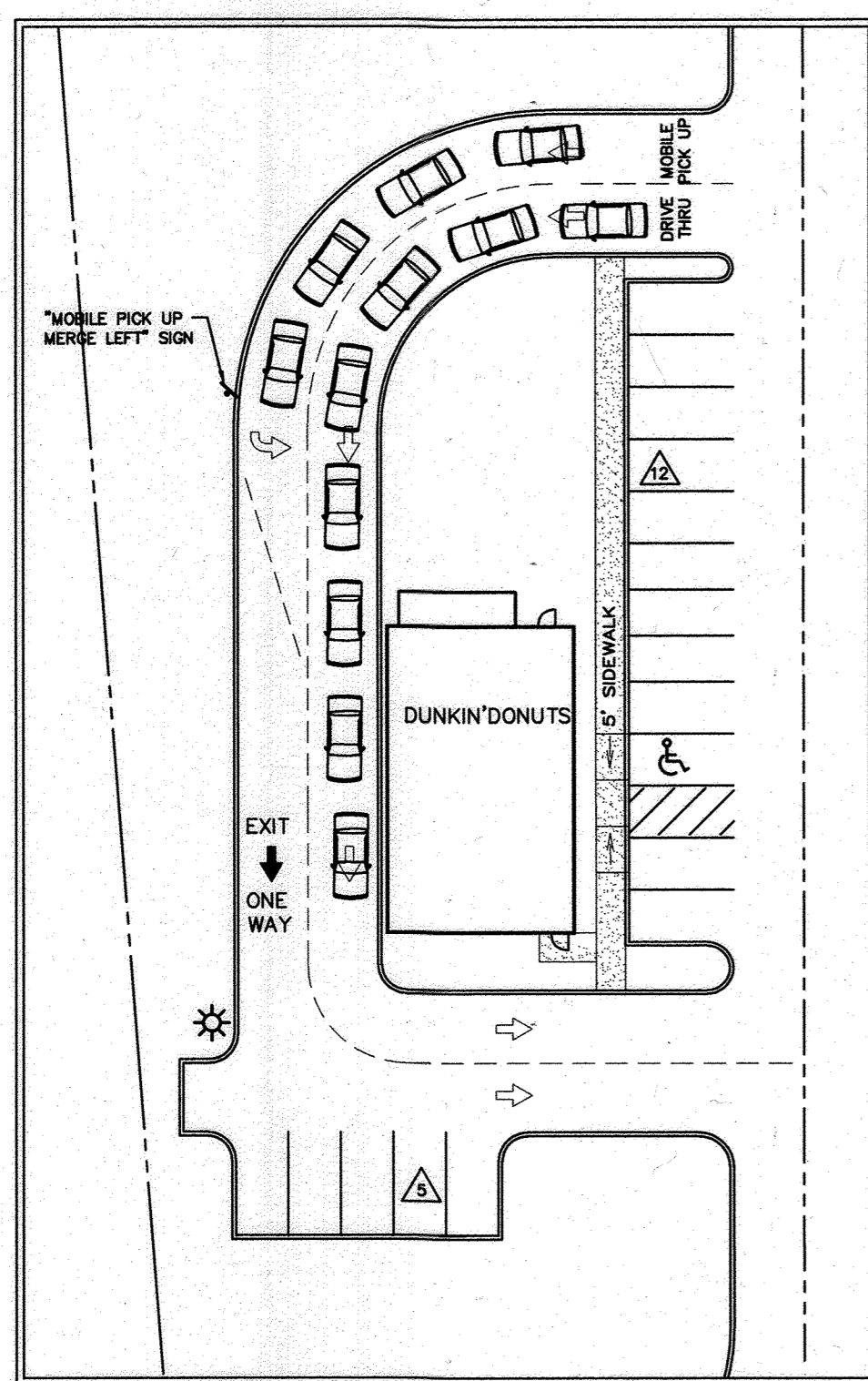
no.	description	date
	revisions	

**WILSON VILLAGE LOTS: 1-3**  
15850 OLD FREDERICK ROAD, WOODBINE, MD  
TAX MAP 7, PARCEL 478  
4th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
DEMOLITION PLAN

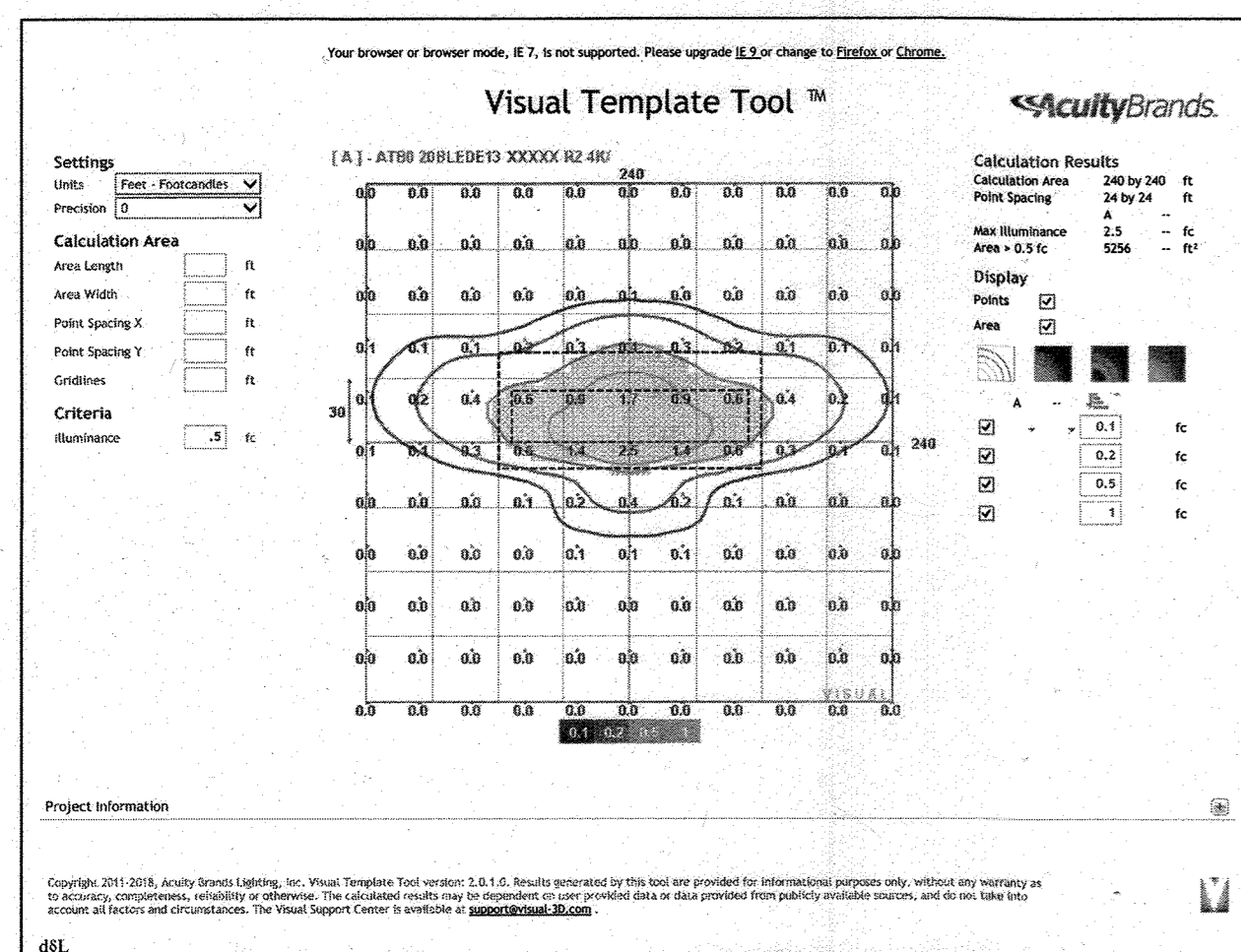
**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
7350-B Grace Drive, Columbia, Maryland 21044  
(410) 997-0286 Balt. (410) 997-0288 Fax.

LEGEND

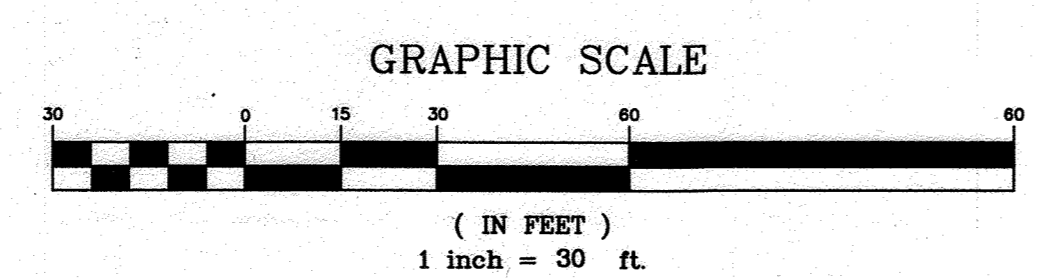
- NEW SEWAGE DISPOSAL AREA APPROVED UNDER PERCOLATION PLAT SIGNED AUGUST 11, 2020. FOREST CONSERVATION EASEMENT (AFFORESTATION)
FOREST CONSERVATION EASEMENT SIGN
NUMBER OF PARKING SPACES
HANDICAPPED PARKING SPACE
SWM FACILITY
0.1 FC EFFECTIVE AREA
PRIVATE LIC DRIVEWAY ACCESS EASEMENT



DRIVE THRU CAR STACKING PLAN SCALE: 1"=30'



Autobahn Series AT80 Roadway Lighting. Includes product overview, features, applications, dimensions, and standards.



LIGHTING LAYOUT CONFIRMS WITH SECTION SECTION 134.0 - OUTDOOR LIGHTING. THE LIGHTING INTENSITY AS SHOWN IN THE SPECIFIED LIGHT POLE (20BLEDE13 20B CHIPS, 1300mA DRIVER OR (OR EQUIVALENT) DOES NOT TRESPASS ON THE ADJOINING RESIDENTIAL PROPERTY. THE MAXIMUM FOOT CANDELAS AT THE EDGE OF THE PROPERTY IS LESS THAN 0.1 FOOT CANDLE (0.1 FC). THIS IS SHOWN ON THE ABOVE PLAN WITH THIS HATCH:

Approval and signature blocks. Includes 'APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS', 'CITY HEALTH OFFICER', 'DEPARTMENT OF PLANNING AND ZONING', and 'OWNER' information for Woodbine Brantly, LLC.

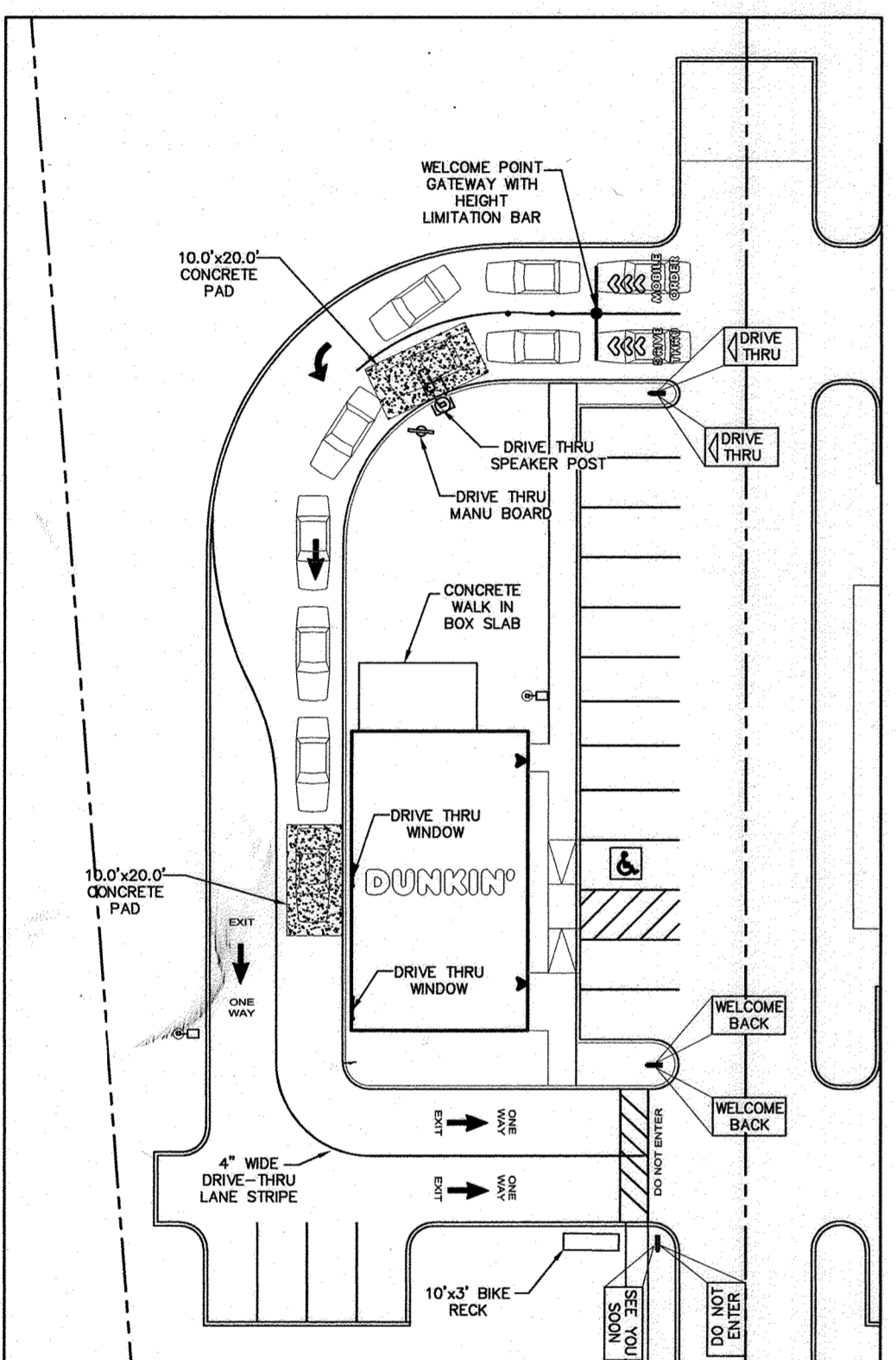
Project information and title block. Includes project name 'WILSON VILLAGE LOTS: 1-3', location '15860 OLD FREDERICK ROAD, WOODBINE, MD', date 'JUNE 2023', and engineering details for MILDENBERG, BOENDER & ASSOC., INC.

**SOILS TABLE**

SYMBOL	RATING	DESCRIPTION	K FACTOR	MAP NO.	COMMENTS
GgB	B	GLENELG LOAM, 3 TO 8% SLOPE	.37	2	
GgC	B	GLENELG LOAM, 8 TO 15% SLOPE	.43	2	

**LEGEND**

- NEW SEWAGE DISPOSAL AREA APPROVED UNDER PERCOLATION PLAT SIGNED AUGUST 11, 2020
- FOREST CONSERVATION EASEMENT (AFFORESTATION)
- FOREST CONSERVATION EASEMENT SIGN
- NUMBER OF PARKING SPACES
- HANDICAPPED PARKING SPACE
- MB-1A SWM FACILITY I.D.
- SC-740
- LOD LIMIT OF DISTURBANCE (LOD)
- SILT FENCE
- SUPER SILT FENCE
- SCE STABILIZED CONSTRUCTION ENTRANCE
- AREAS OF MILLING AND RESURFACING (IN R/W)
- AREAS OF PAVEMENT REMOVAL (IN R/W)
- AREAS OF NEW PAVEMENT (IN R/W)
- HO. CO. STD. P-4 PAVEMENT SECTION
- SIP STANDARD SEDIMENT CONTROL
- M-S DRY WELL



**DUNKIN DONUTS SIGNAGE PLAN**  
SCALE: 1"=30'

**ENGINEER'S CERTIFICATION**  
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DESIGNER'S SIGNATURE: **Samuel Alomer** DATE: 01/03/2023  
PRINTED NAME: **SAMUEL ALOMER** MD REGISTRATION NO. (P.E.): 28859

**OWNER/DEVELOPER CERTIFICATION**  
I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY TO THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

OWNER'S/DEVELOPER'S SIGNATURE: **Alexander Butcher** DATE: 6/6/23  
PRINTED NAME & TITLE: **Alexander Butcher**

**HOWARD SCD SIGNATURE BLOCK**  
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
Signature: **Alexander Butcher** DATE: 07/20/23

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Signature: **[Official Signature]** DATE: 7-27-23  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Signature: **[Official Signature]** DATE: 8/13/23  
CHIEF, DIVISION OF LAND DEVELOPMENT  
Signature: **[Official Signature]** DATE: 8/13/23  
DIRECTOR

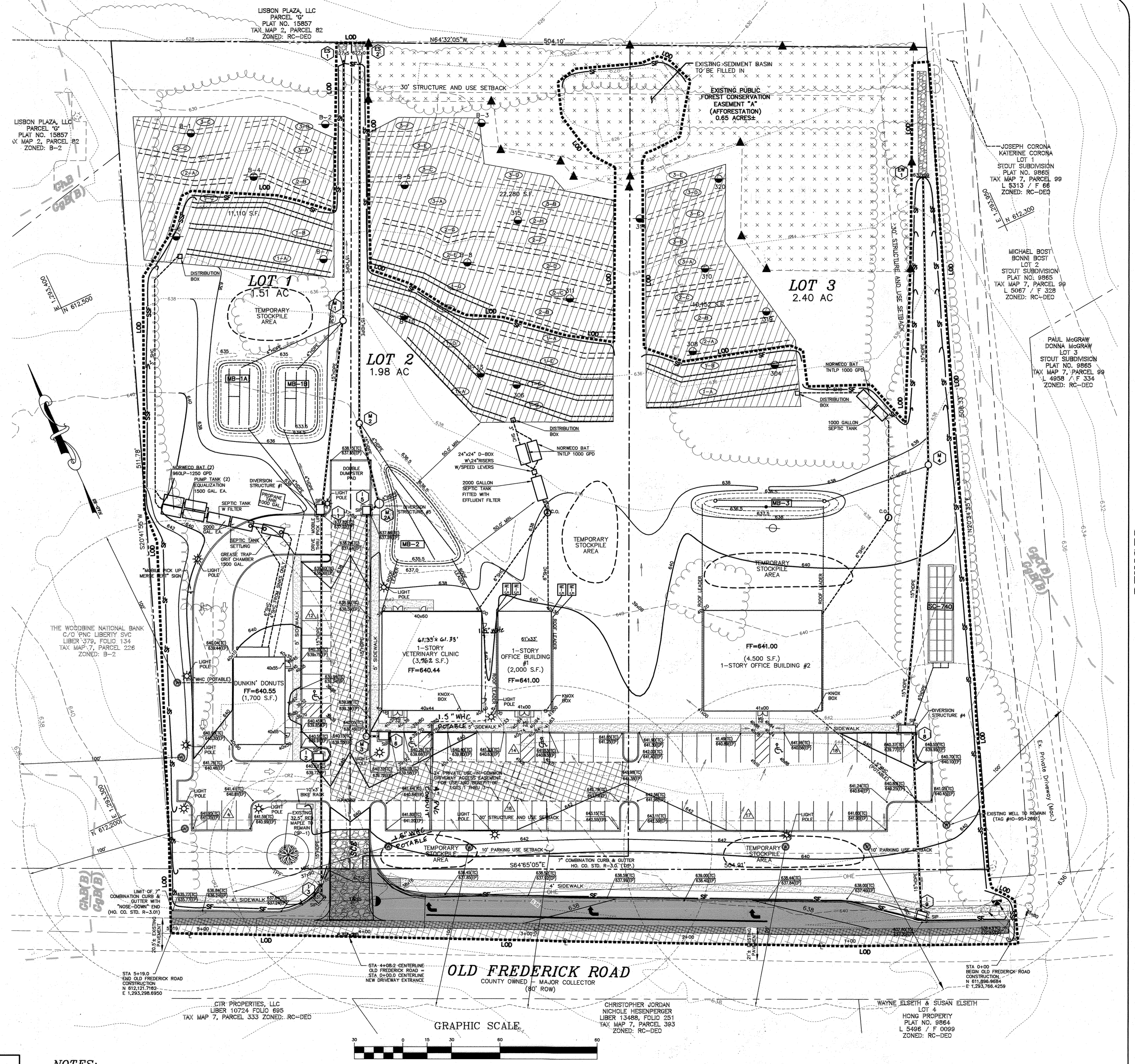
**1-YEAR STORM CALCULATIONS:**

EXISTING	PROPOSED
Q=CIA: C=0.23 I=3.5 A=5.89 AC Q=(0.23)(3.5)(5.89) Q=4.72 CFS	Q=CIA: C=0.33 I=3.5 A=5.89 AC Q=(0.33)(3.5)(5.89) Q=6.80 CFS

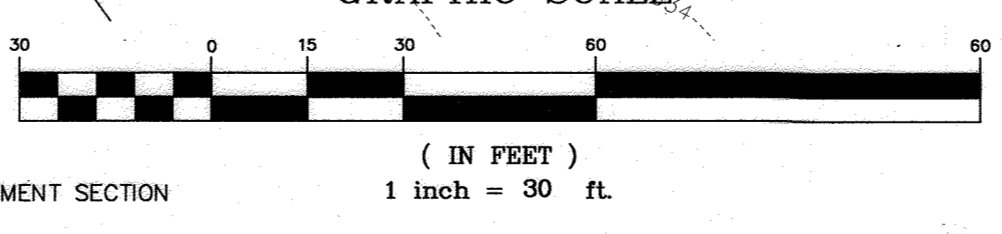
1-YEAR STORM RUNOFF INCREASEMENT:  
6.8 - 4.72 = 2.08 CFS

**OWNER**  
WOODBINE BRANTLY, LLC  
8316 FOREST ST. SUITE 200  
ELLICOTT CITY, MARYLAND 21043  
(410)992-4600

PROFESSIONAL ENGINEER  
SAMER A. ALOMER, P.E.  
06/21/2023



- NOTES:**
- NEW PAVEMENT WITHIN RIGHT-OF-WAY TO BE CONSTRUCTED PER HO. CO. STD. "P-4" PAVEMENT SECTION
  - ON-SITE PAVEMENT TO BE CONSTRUCTED PER HO. CO. STD. "P-2" PAVEMENT SECTION
  - ALL SIDEWALKS ARE TO BE CONSTRUCTED PER HO. CO. STD. R-3.05
  - SEE SHEETS 13, 14, 15 AND 16 FOR PRIVATE SEWER / SEPTIC DESIGN INFORMATION
  - SILT FENCE MAY BE UPGRADED TO SUPER SILT FENCE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.



date	JUNE 2023	approval	SAA
project	200-26	illustration	MMM

9/26/23  
REV. BUILDINGS SIZE & W/C FOR VET CLINIC  
date  
1"=30'

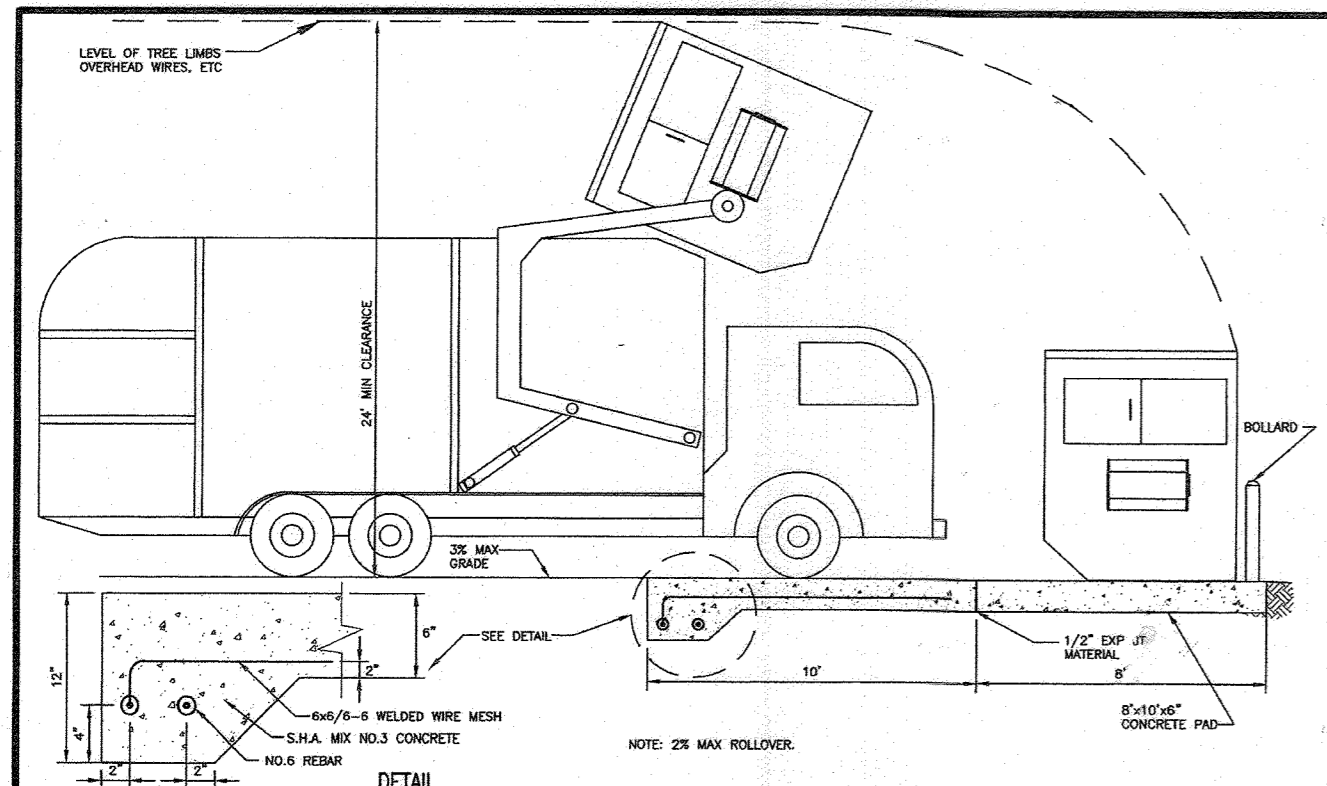
**REVISD**  
**WILSON VILLAGE LOTS: 1-3**  
15850 FREDERICK ROAD, WOODBINE, MD  
TAX MAP 7 GRID 6 PARCEL 478  
4th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
**GRADING AND SEDIMENT CONTROL PLAN**

**MILDENBERG & ASSOC., INC.**  
**BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
7350-B Grace Drive, Columbia, Maryland 21044  
(410) 997-0296 Ball. (410) 997-0298 Fax.

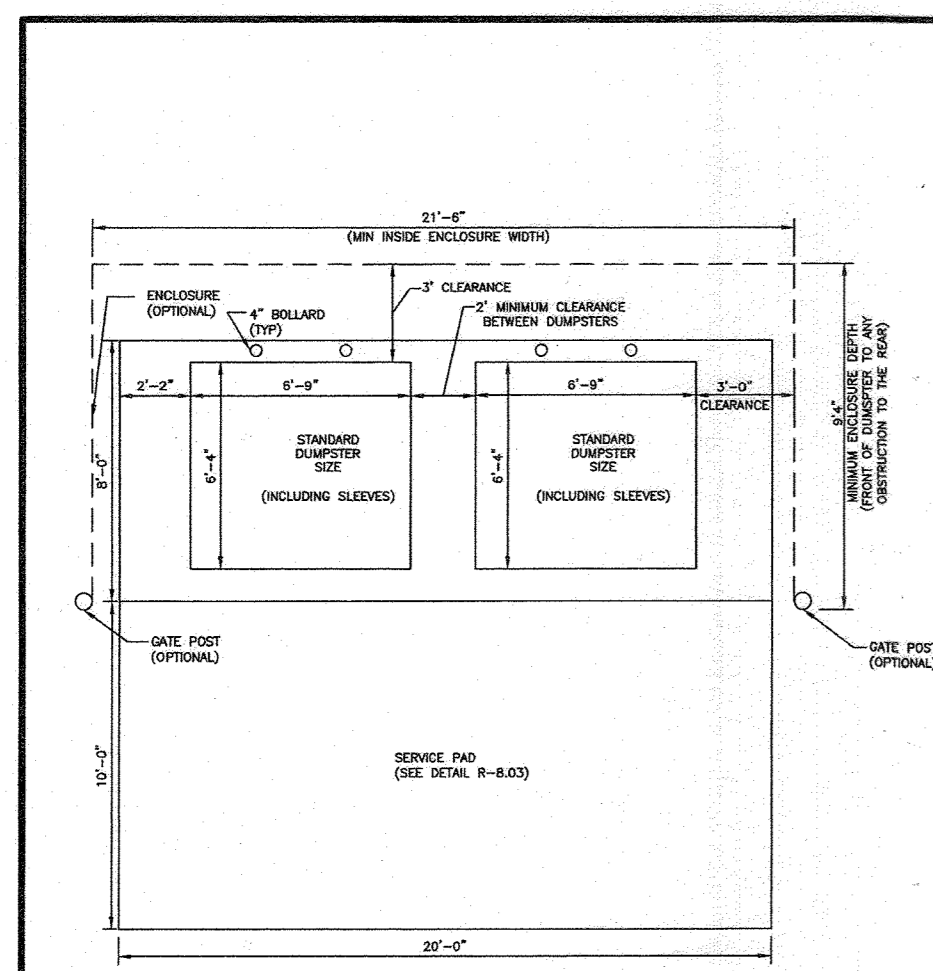


SEE SHEET 9 FOR MICRO-BIORETENTION PLANTINGS

SEE SHEET 6 FOR TREE PLANTING SCHEDULES AND DETAILS



Howard County, Maryland  
Department of Public Works  
SOLID WASTE Service Pad  
Detail R-8.03



Howard County, Maryland  
Department of Public Works  
SOLID WASTE Double Container Enclosure 2 Gate System  
Detail R-8.05

- LEGEND**
- NEW SEWAGE DISPOSAL AREA APPROVED UNDER PERCOLATION PLAT SIGNED AUGUST 11, 2020.
  - FOREST CONSERVATION EASEMENT (REFORESTATION)
  - FOREST CONSERVATION EASEMENT SIGNAGE
  - EXISTING TREE LINE
  - PROPOSED TREE LINE
  - NUMBER OF PARKING SPACES
  - HANDICAPPED PARKING SPACE
  - SWM FACILITY I.D.

**DEVELOPER'S/OWNER'S CERTIFICATE**

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE IN ACCORDANCE WITH THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE, AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

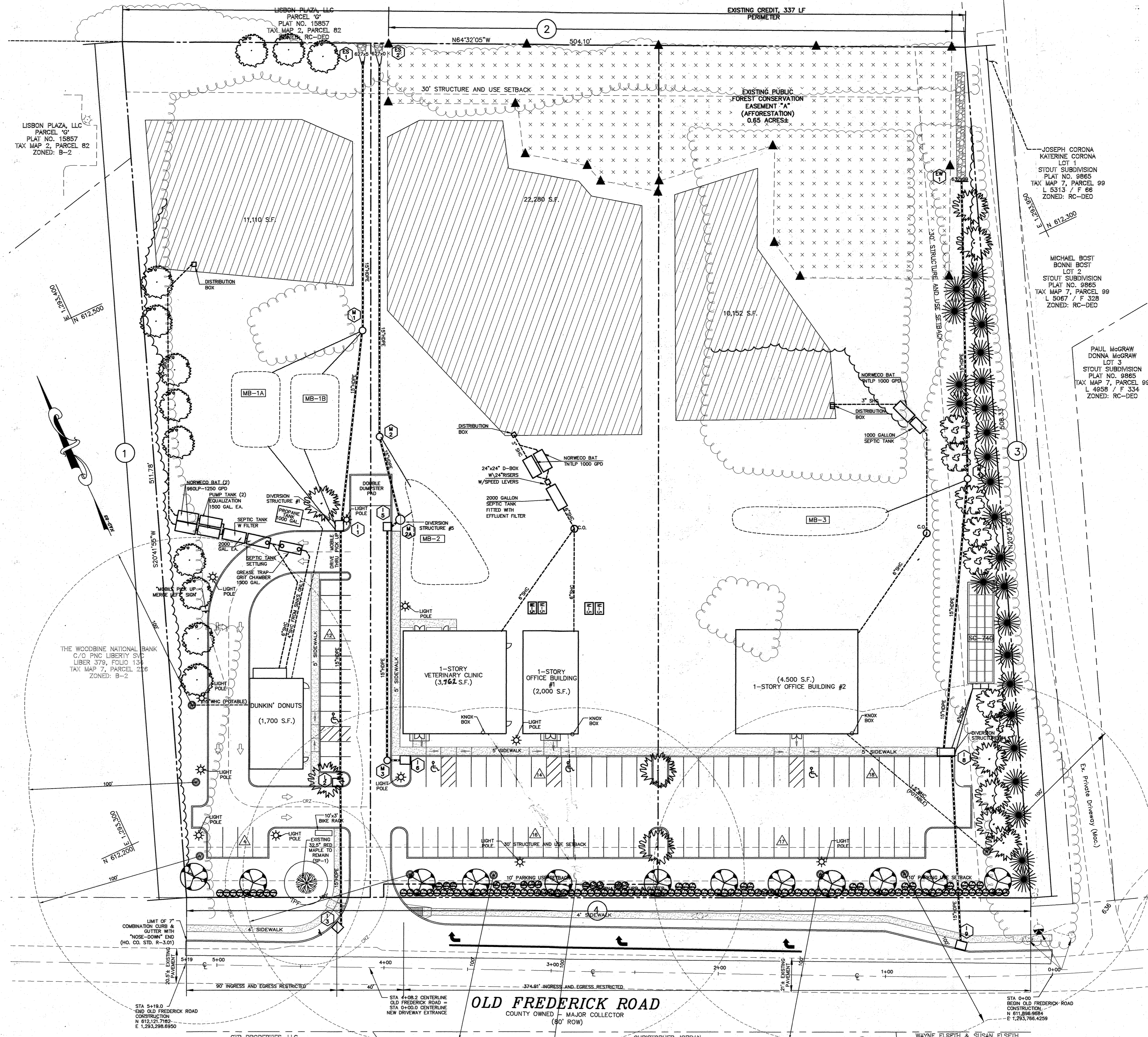
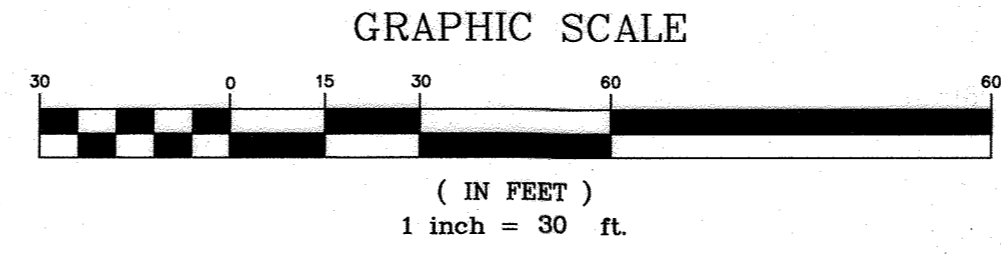
*[Signature]*  
DATE: 6/27/23

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 7/1/23

**OWNER**  
WOODBINE GRANTLY, LLC  
8318 FORREST ST. SUITE 200  
ELLIOTT CITY, MARYLAND 21043  
(410)992-4600

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. 26859, EXP. DATE 08/08/21  
DATE: 06/01/2023  
SAMER A. ALOMER, P.E.

**Eco-Science Professionals, Inc.**  
CONSULTING ECOLOGISTS  
ISA Certified Artist  
MD DNR FCA Qualified Professional  
J. Brody McAllister



Project	22-020	date	JUNE 2023
Illustration	MMM	engineering	MMM
Scale	1"=30'	approval	SAA

1	REV.	BUILDING DIMENSIONS VET CLINIC	9/16/23
		description	date
		revisions	

**REVISED**  
**WILSON VILLAGE LOTS: 1-3**  
15850 OLD FREDERICK ROAD, WOODBINE, MD  
TAX MAP 7, GRID 6 PARCEL 478  
4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
**LANDSCAPE AND FOREAT CONSERVATION PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
7550-B Grace Drive, Columbia, Maryland 21044  
(410) 997-0286 Balt. (410) 997-0288 Tex.

M:\2022\22-020-Wilson Village redline 2\lot 2 1 building.dwg, 22-020-SDP-LOT 2-rev.3.dwg, 6/22/2023 9:48:42 AM, MMT

PLANTING SPECIFICATIONS AND NOTES

SITE PREPARATION AND SOILS

- 1. PROTECTION FENCING AND SILT FENCES FOR SEDIMENT AND EROSION CONTROL ARE TO BE INSTALLED AS A FIRST ORDER OF BUSINESS...

PLANT STORAGE AND INSPECTION

- 1. FOR CONTAINER GROWN NURSERY STOCK, PLANTING SHOULD OCCUR WITHIN 2 WEEKS AFTER DELIVERY TO THE SITE...

PLANT INSTALLATION

- 1. THE PLANTING FIELD SHOULD BE PREPARED AS SPECIFIED (SEE DETAIL). NATIVE STOCKPILED SOILS SHOULD BE USED FOR SOIL MIX AND BACKFILL FOR PLANTING FIELD...

FERTILIZING

- 1. DO NOT FERTILIZE NEWLY PLANTED TREES WITHIN THE FIRST GROWING SEASON AFTER PLANTING...

FOREST CONSERVATION WORKSHEET

Table with columns for item (A-M), description, and value. Includes items like Total tract area, Forest conservation threshold, and Existing forest cover.

POST CONSTRUCTION PERIOD PROTECTION AND MANAGEMENT PROGRAM

- 1. ANNUAL MAINTENANCE DURING THE GROWING SEASON, FOR A THREE YEAR PERIOD.

ALL FOREST CONSERVATION ACTIVITIES SHALL BE DONE UNDER THE DIRECT SUPERVISION OF SOMEONE FROM THE DESIGN TEAM OR OTHER "QUALIFIED PROFESSIONAL" AS DETERMINED BY THE REQUIREMENTS OF COMAR 08.19.06.01 AND THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, PUBLIC LANDS AND FORESTRY DIVISION.

THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION, SOIL COMPACTION OR EXCAVATION, INTRODUCTION OF TOXIC CHEMICALS OR OTHER DISTURBANCES DETRIMENTAL TO THE LIVE SPECIMEN TREES OR CRITICAL ROOT ZONES FOR THESE TREES EXCEPT AS PERMITTED BY HOWARD COUNTY SUPERVISION

CONSTRUCTION PERIOD PROTECTION AND MANAGEMENT PROGRAM

- 1. ALL FOREST RETENTION AREAS AND ISOLATED POTENTIAL SPECIMEN TREES SHALL BE TEMPORARILY PROTECTED BY WELL ANCHORED, BLAZE ORANGE PLASTIC MESH FENCING AND SIGNAGE AS INDICATED ON THE PLANS...

PRE-CONSTRUCTION MEETING

- 1. AFTER THE BOUNDARIES OF THE FOREST RETENTION AREAS HAVE BEEN FIELD LOCATED AND MARKED, AND AFTER THE FOREST PROTECTION DEVICES HAVE BEEN INSTALLED...

CONSTRUCTION MONITORING

- 1. THE SITE SHALL BE INSPECTED PERIODICALLY DURING THE CONSTRUCTION PHASE OF THE PROJECT. A QUALIFIED PROFESSIONAL SHALL BE RESPONSIBLE FOR IDENTIFYING DAMAGE TO PROTECTED FOREST AREAS...

THE CONSTRUCTION PROCEDURE SHALL NOT DAMAGE AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS DESIGNATED ON THE PLANS. ANY DAMAGE SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE DESIGN TEAM OR ENGINEER.

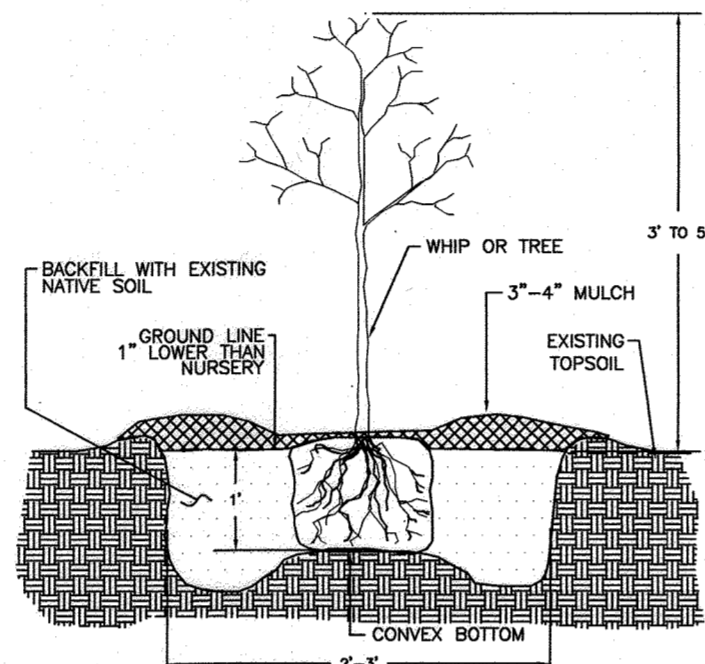
OWNER

WOODBINE BRANTLY, LLC
8318 FORREST ST., SUITE 200
ELLICOTT CITY, MARYLAND 21043
(410)992-4600

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...

FOREST CONSERVATION NOTES:

- 1. NO RARE, THREATENED OR ENDANGERED SPECIES AND THEIR HABITATS WERE OBSERVED ON THE PROPERTY.



TREE PLANTING DETAIL

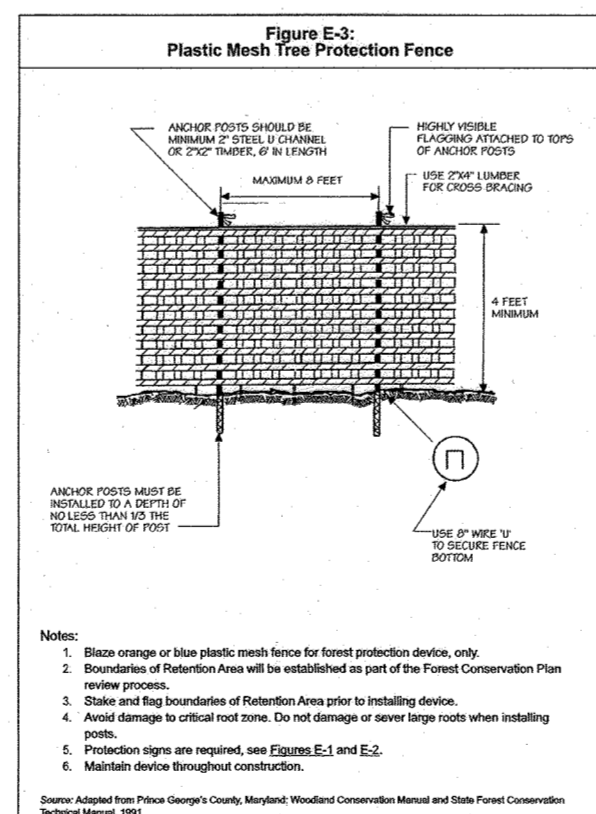
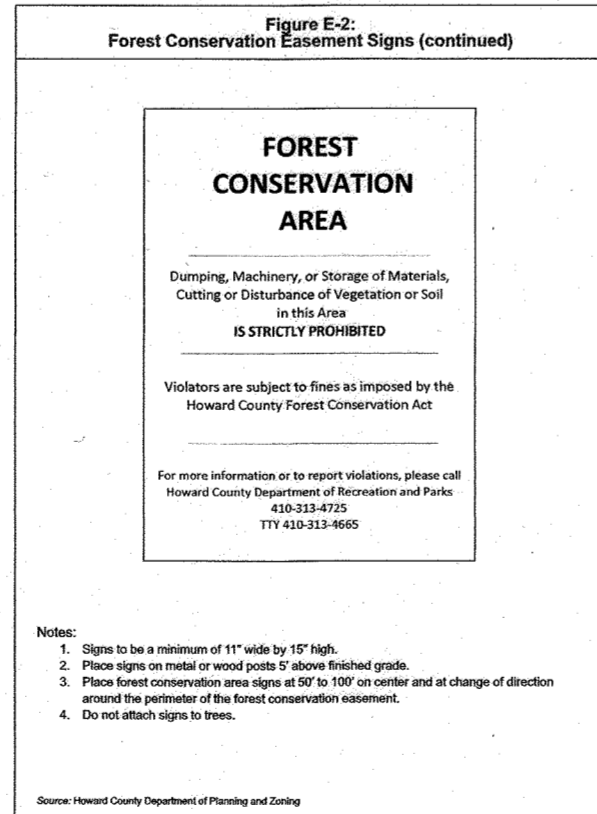
PLANTING SCHEDULE

Table with columns: Qty, Species, Cwmply/Understorey, Size, Spacing, Total FCA Units. Lists plants like Acer rubrum, Cercis canadensis, Quercus rubra, etc.

Planting Notes - Trees shall be staked per the deciduous tree planting detail.

SPECIMEN TREE CHART

Table with columns: SPECIMEN TREE (SP#), COMMON NAME, BOTANICAL NAME, SIZE DBH, CONDITION. Shows Red Maple (To Be Retained).



LANDSCAPE NOTES

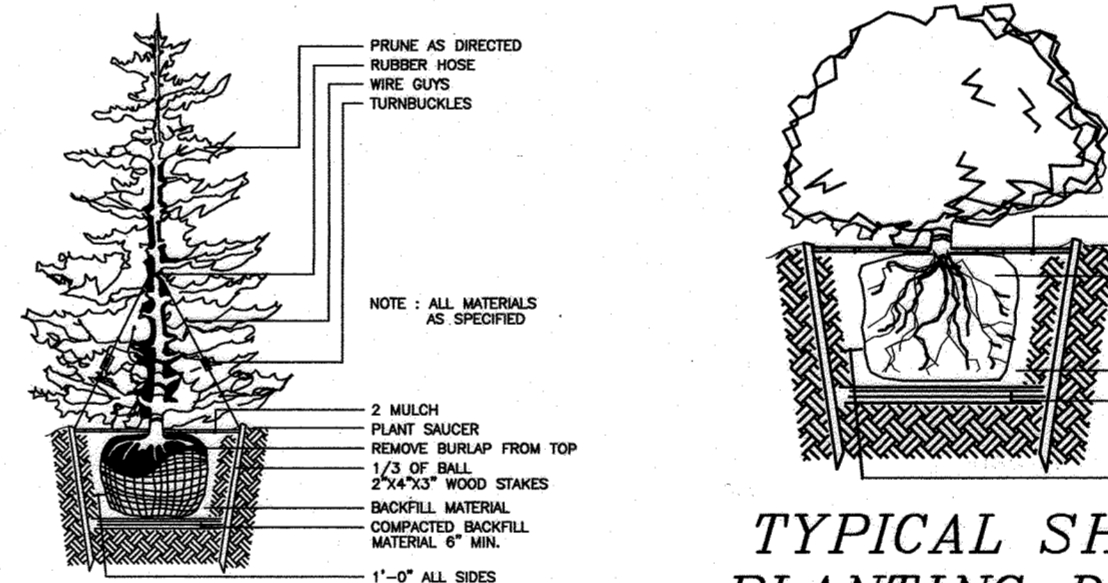
- 1. NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH CREDIT IS BEING TAKEN; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.

SCHEDULE A: PERIMETER LANDSCAPE EDGE

Table with columns: CATEGORY, ADJACENT TO PERIMETER PROPERTIES (A, B, C, E), TOTAL. Lists landscape types like Linear Feet of Perimeter, Credit for Existing Vegetation, etc.

SCHEDULE B: PARKING LOT INTERNAL LANDSCAPING

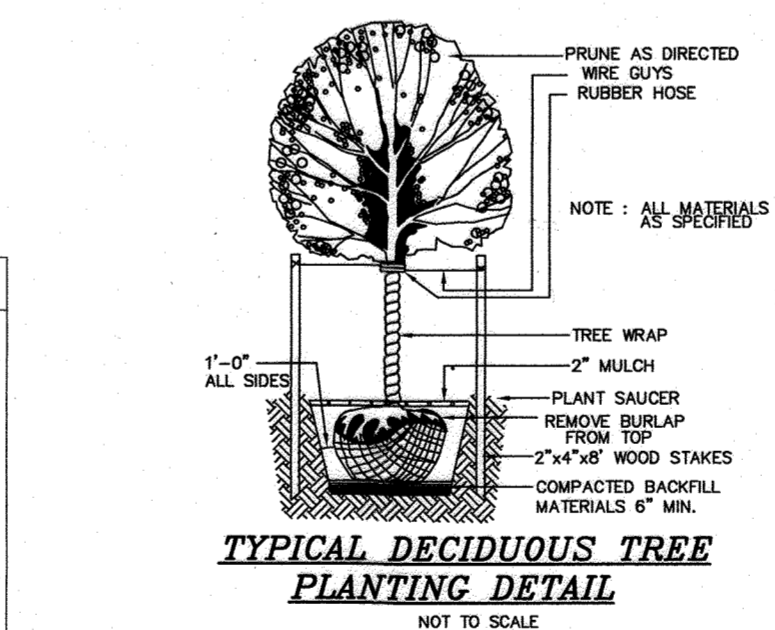
Table with columns: NUMBER OF PARKING SPACES, NUMBER OF TREES REQUIRED, NUMBER OF TREES PROVIDED. Lists Shade Trees and Shrubs.



TYPICAL SHRUB PLANTING DETAIL

NOT TO SCALE

TYPICAL EVERGREEN TREE PLANTING DETAIL



TYPICAL DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

LANDSCAPE PLANT LIST (SCHEDULES A, B)

Table with columns: QUANTITY, SYMBOL, BOTANICAL NAME, COMMON NAME, SIZE. Lists plants like Acer rubrum 'Red Sunset', Quercus rubra, Cercis canadensis, etc.

TOTALS: 66 TREES (40 SHADE, 26 EVERGREEN), 127 SHRUBS

\* NOTE - LANDSCAPE SURETY IS BASED ON THE TOTAL NUMBER OF PLANTINGS REQUIRED.

Project information table: Project # 22-020, Date JUNE 2023, Illustration, Scale 1"=30', Approval SAA.

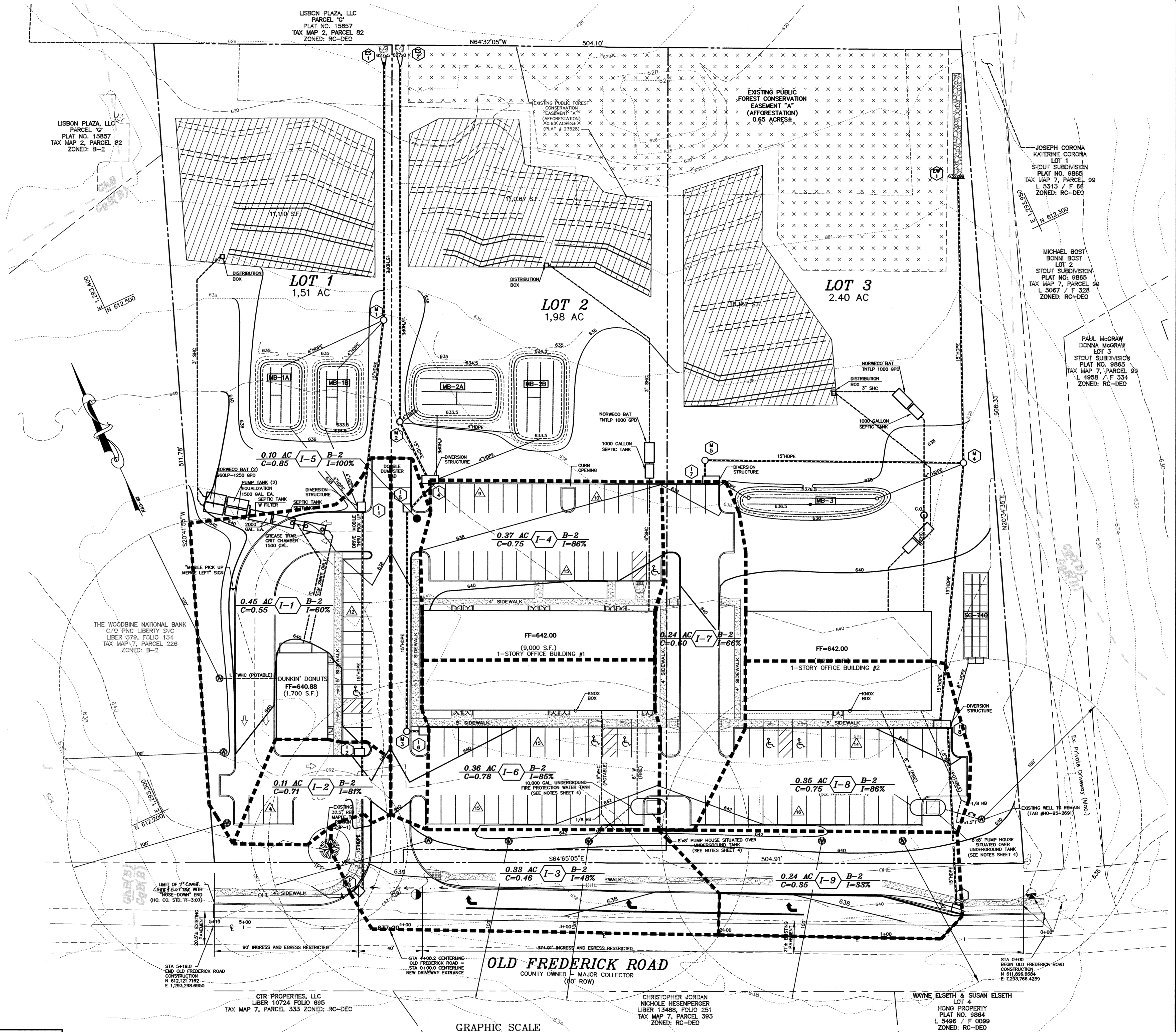
Revision table with columns: No., Description, Date, Revisions.

WILSON VILLAGE LOTS: 1-3
15850 OLD FREDERICK ROAD, WOODBINE, MD
TAX MAP 7 GRID 6 PARCEL 478
HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
7950-B Grace Drive, Columbia, Maryland 21044
(410) 997-0298 Fax

**SOILS TABLE**

SYMBOL	RATING	DESCRIPTION	K FACTOR	MAP NO.	COMMENTS
GgB	B	GLENELG LOAM, 3 TO 8% SLOPE	37	2	
GgC	B	GLENELG LOAM, 8 TO 15% SLOPE	43	2	



project	20-026	date	JULY 2021
illustration	MM	engineering	MM
scale	1"=90'	approval	MM
no.		revisions	

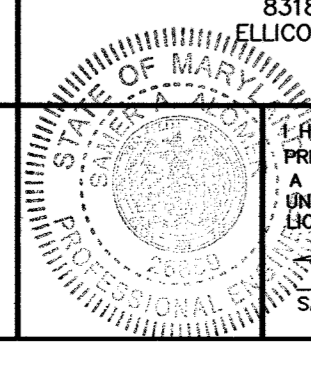
description	revisions

**WILSON VILLAGE LOTS: 1-3**  
 15850 OLD FREDERICK ROAD, WOODBINE, MD  
 TAX MAP 7, PARCEL 478  
 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
**STORM DRAIN DRAINAGE AREA MAP**

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 7850-B Bruce Drive, Columbia, Maryland 21044  
 (410) 997-0286 Fax: (410) 997-0288 Pbx.

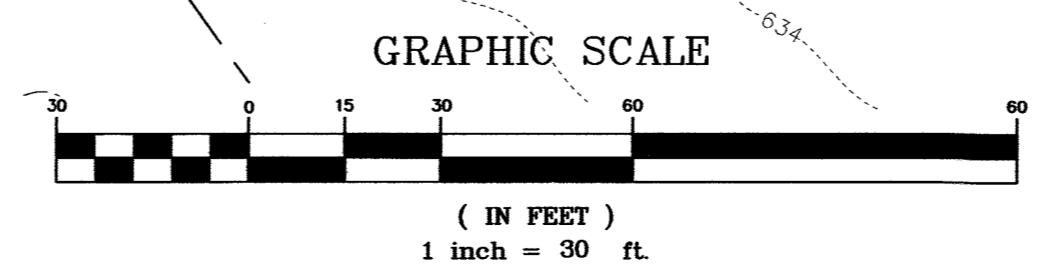
M:\2020\20-026 Wilson Village Redline (12-0351)DWG-00-005-SDP-DUNKIN DONUTS volume comp.dwg, 7/20/2021 1:48:23 PM

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
  
 COUNTY HEALTH OFFICER  
 HOWARD COUNTY HEALTH DEPARTMENT  
 APPROVED: DEPARTMENT OF PLANNING AND ZONING  
  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 8/16/21  
  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 11/2/21

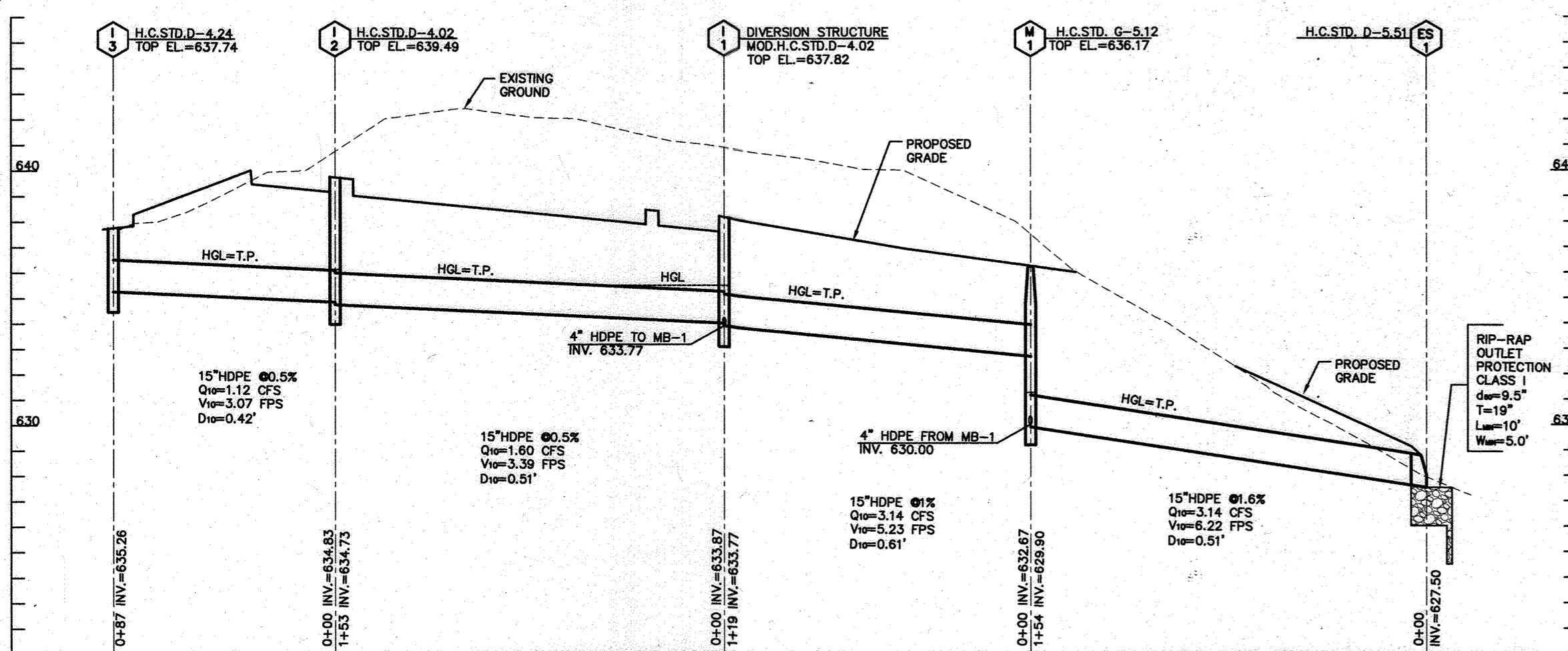


**OWNER**  
 WOODBINE BRANTLY, LLC  
 8318 FOREST ST., SUITE 200  
 ELLICOTT CITY, MARYLAND 21043  
 (410)992-4600  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 28659, EXP. DATE 09/09/21  
 SAMER A. ALOMER, P.E.  
 DATE: 7/20/21

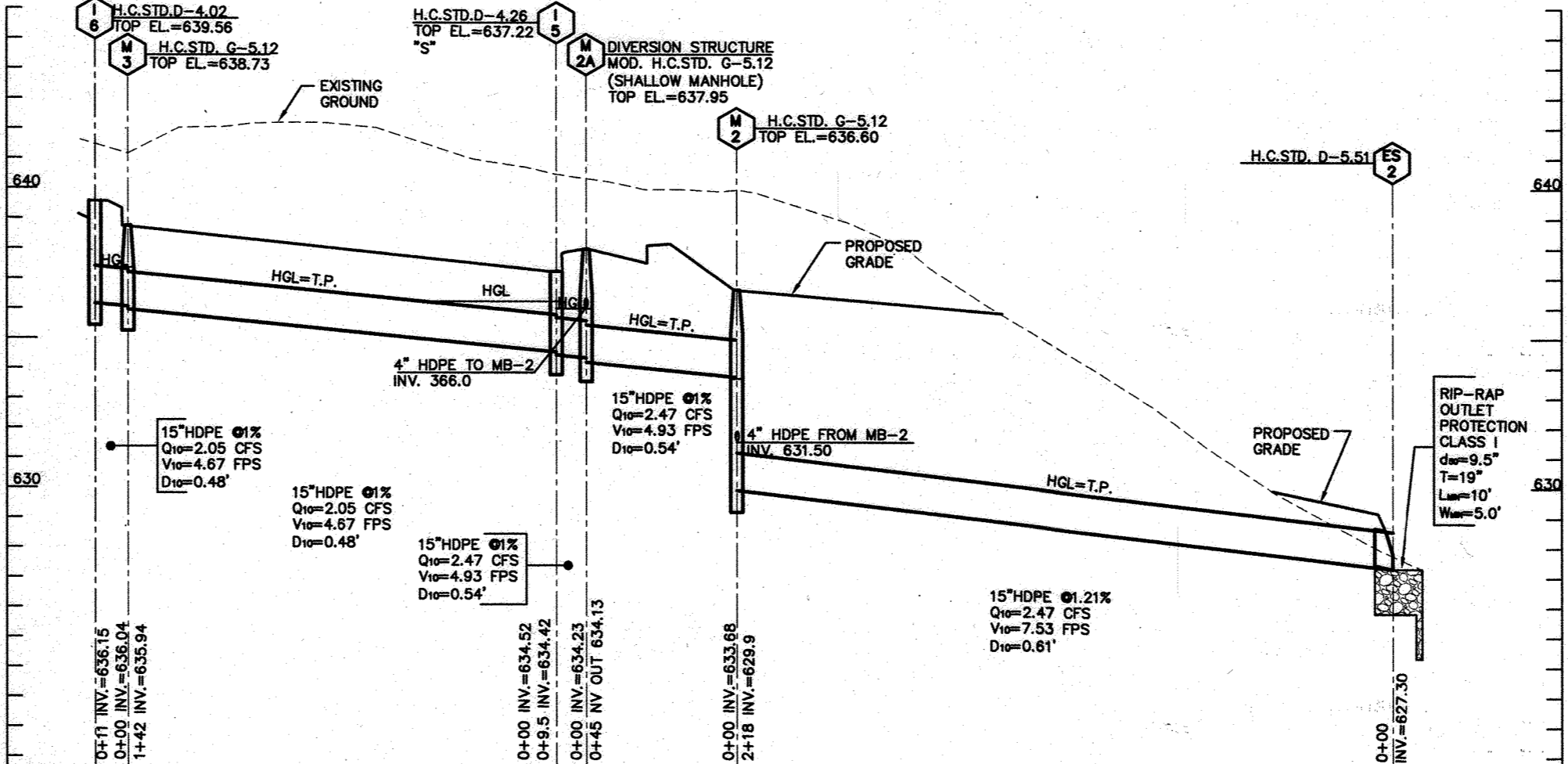
CITR PROPERTIES, LLC  
 LIBER 10724 FOLIO 695  
 TAX MAP 7, PARCEL 333 ZONED: RC-DEO  
 CHRISTOPHER JORDAN  
 NICHOLE HESENBERGER  
 LIBER 13488, FOLIO 251  
 TAX MAP 7, PARCEL 393  
 ZONED: RC-DEO  
 WAYNE ELSEITH & SUSAN ELSEITH  
 LOT 4  
 HONG PROPERTY  
 PLAT NO. 9864  
 L 5466 / F 0089  
 ZONED: RC-DEO







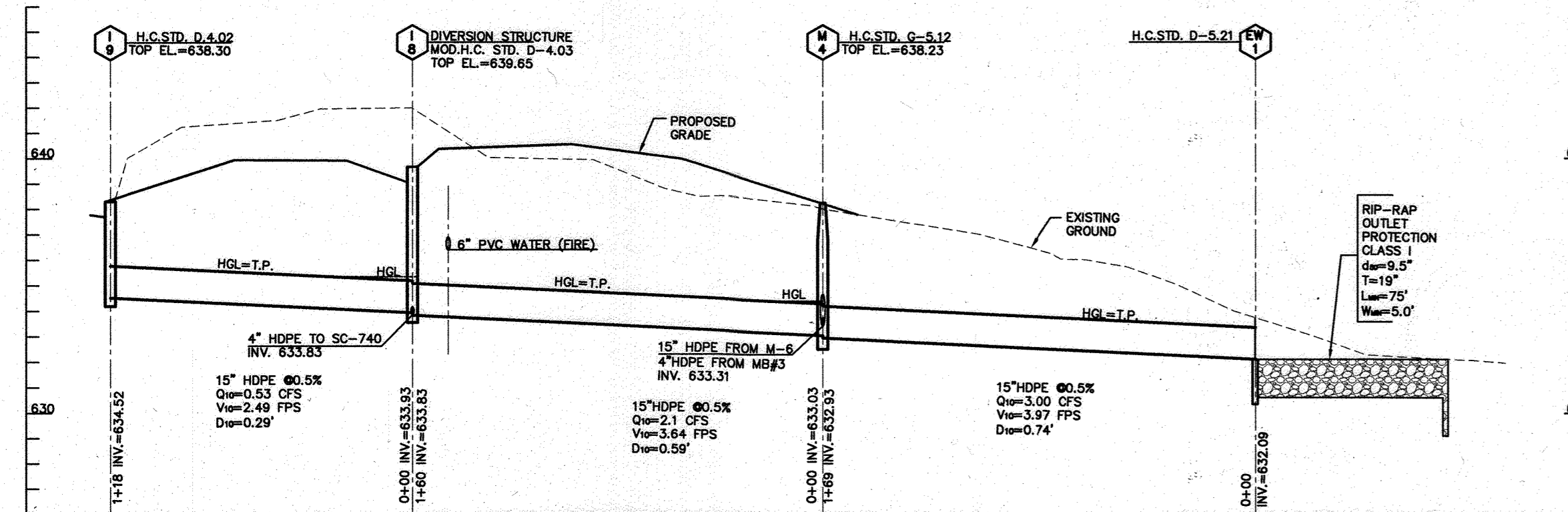
**STORM DRAIN PROFILE (I-3 TO ES-1)**  
SCALE: HOR 1"=50  
VERT. 1"=5'



**STORM DRAIN PROFILE (I-6 TO ES-2)**  
SCALE: HOR 1"=50  
VERT. 1"=5'

STRUCTURE SCHEDULE						
NO.	LOCATION*	TOP**	INV. IN	INV. OUT	COMMENTS	
ES-1	N 612,568.893 E 1,293,624.420	-	627.50	-	15 HDPE END SECTION	
ES-2	N 612,563.702 E 1,293,633.059	-	627.30	-	15" HDPE END SECTION	
EW-1	N 612,347.912 E 1,293,916.281	-	632.09	-	15" ENDWALL (HO. CO. STD. D-5.21)	
I-1	N 612,319.693 E 1,293,490.076	637.82	633.78	633.77	INLET TYPE A-5 (HO. CO. STD. D-4.02) DIVERSION STRUCTURE #1	
I-2	N 612,180.451 E 1,293,428.370	639.49	634.83	634.73	INLET TYPE A-5 (HO. CO. STD. D-4.02)	
I-3	N 612,103.255 E 1,293,390.615	637.74	-	635.26	INLET TYPE S (HO. CO. STD. D-4.24)	
I-5	N 612,310.387 E 1,293,519.903	637.22	634.52	634.42	INLET TYPE S (HO. CO. STD. D-4.24)	
I-6	N 612,176.100 E 1,293,469.656	639.56	-	636.15	INLET TYPE A-5 (HO. CO. STD. D-4.02)	
I-8	N 612,042.193 E 1,293,767.425	639.65	633.93	633.83	INLET TYPE A-10 (HO. CO. STD. D-4.03) DIVERSION STRUCTURE #4	
I-9	N 611,934.217 E 1,293,723.384	638.30	-	634.89	INLET TYPE A-5 (HO. CO. STD. D-4.02)	
MH-1	N 612,419.307 E 1,293,554.385	636.17	632.67	630.00	MH (HO. CO. STD. G 5.12)	
MH-2A	N 612,305.485 E 1,293,524.485	637.95	634.23	624.13	MH (HO. CO. STD. G-5.12, SHALLOW MANHOLE) DIVERSION STRUCTURE #5	
MH-2	N 612,357.545 E 1,293,538.184	636.60	633.68	631.50	MH (HO. CO. STD. G 5.12)	
MH-3	N 612,180.842 E 1,293,459.366	638.73	636.04	635.94	MH (HO. CO. STD. G 5.12)	
MH-4	N 612,291.228 E 1,293,689.839	638.23	633.03	632.93	MH (HO. CO. STD. G 5.12)	

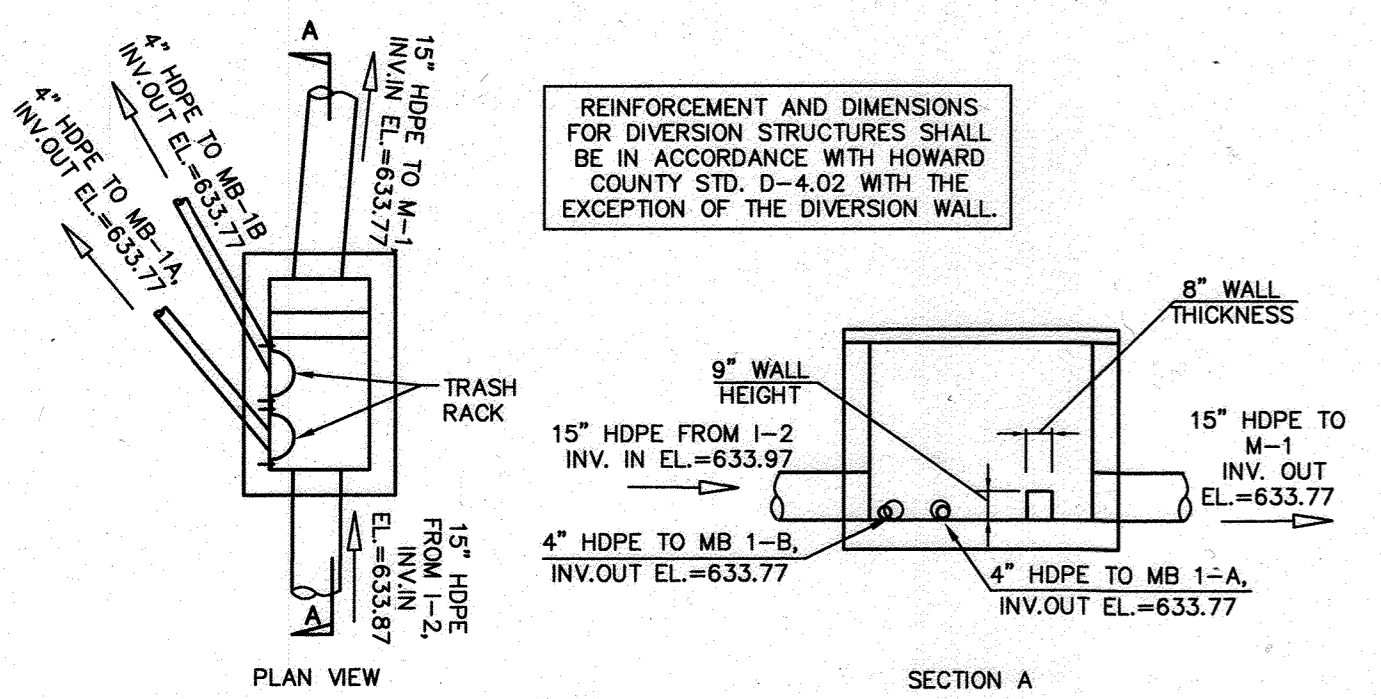
- NOTES: 1. STATIONS GIVEN TO CENTERLINE FACE OF INLET AT TOP OF CURB FOR INLETS LOCATED WITHIN THE ROAD RIGHT-OF-WAY.  
2. STATIONS FOR YARD INLETS TO CL OF INLET.  
3. LOCATION OF MANHOLES IS TO CL OF MANHOLE COVER.  
4. LOCATION OF END SECTION GIVEN TO THE CENTERLINE OF PIPE AT THE CONNECTION OF THE STORM DRAIN PIPE TO THE END SECTION.  
5. ELEVATIONS MEASURED TO CENTER OF ALL INLETS.  
6. STATIONS AND ELEVATIONS FOR HEADWALLS IS TO MID POINT OF THE HEADWALL.



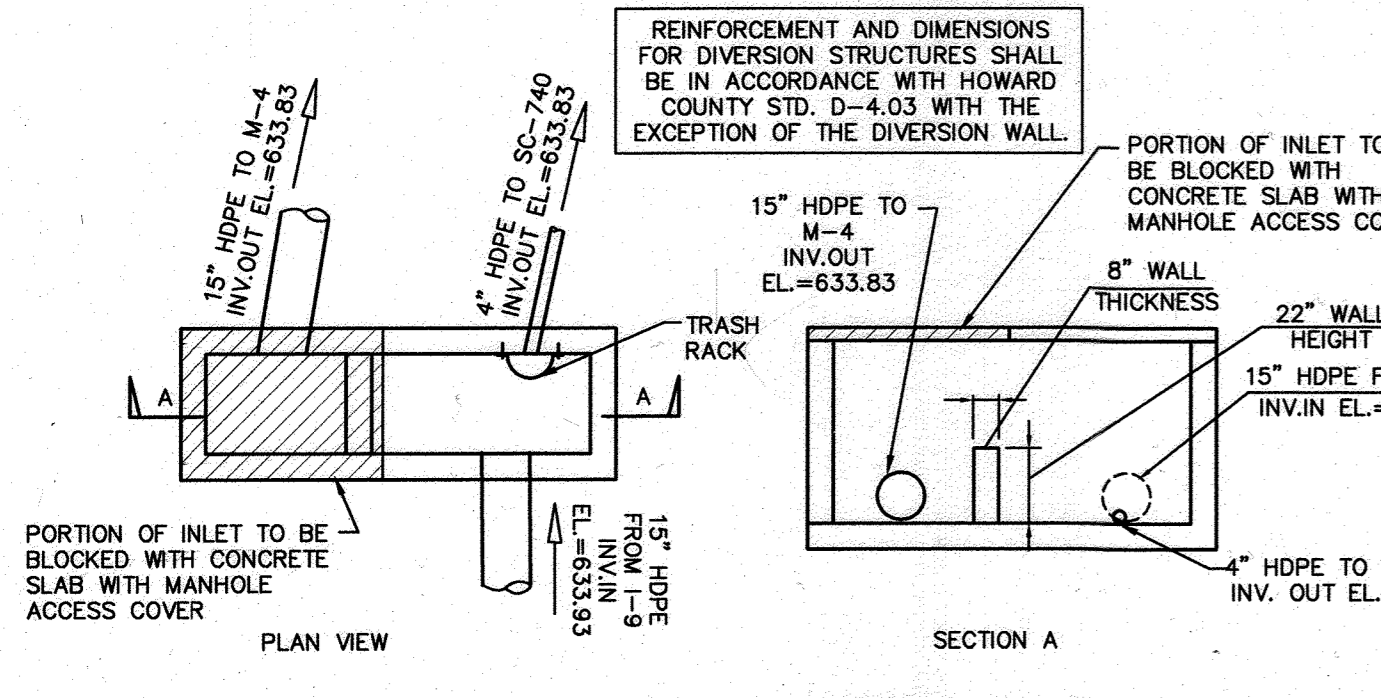
**STORM DRAIN PROFILE (I-9 TO EW-1)**  
SCALE: HOR 1"=50  
VERT. 1"=5'

**PIPE SCHEDULE**

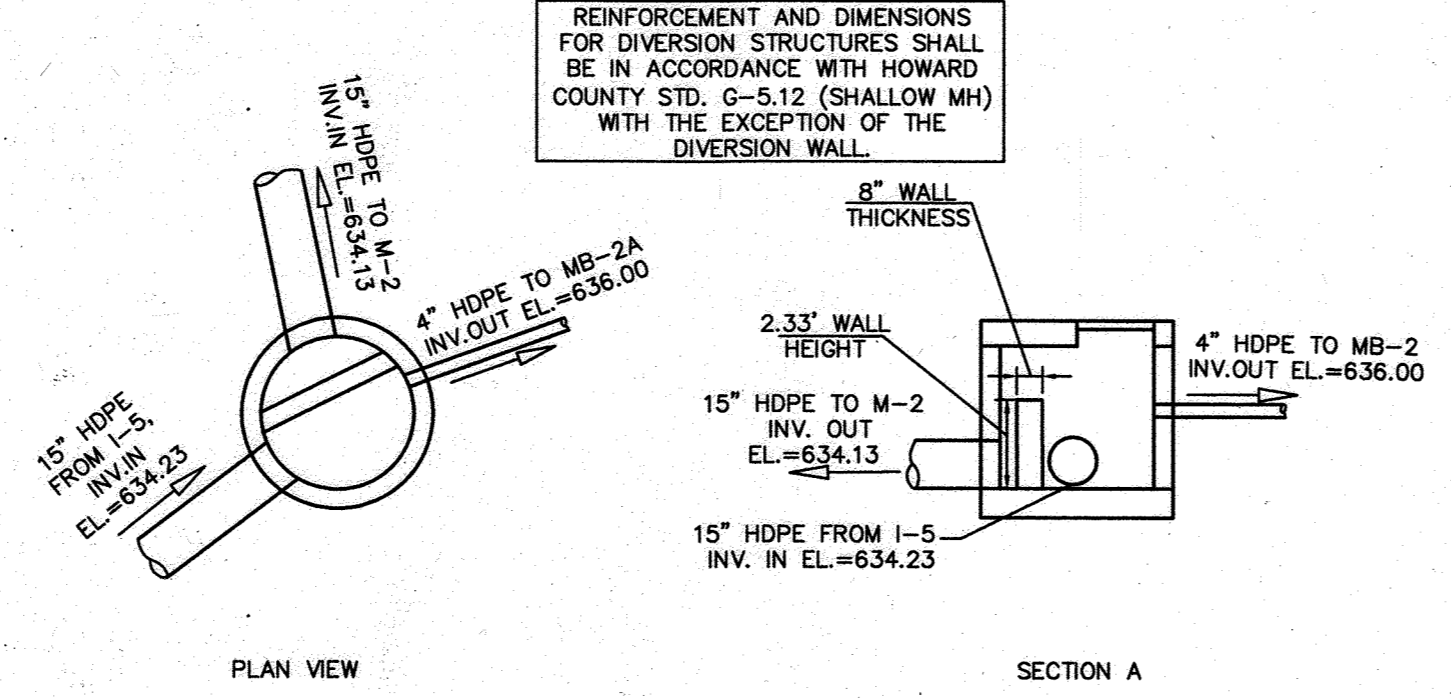
PIPE SIZE	QUANTITY
15" HDPE	1,385 L.F.



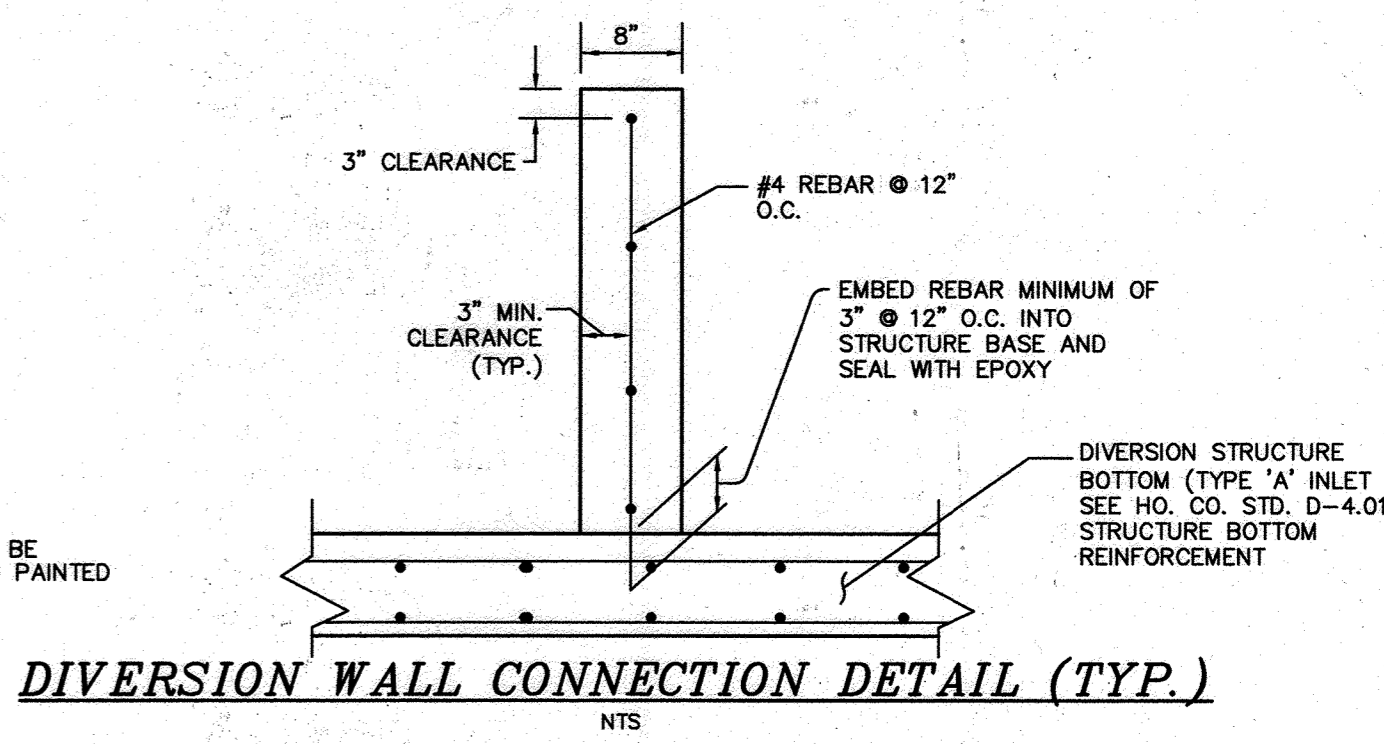
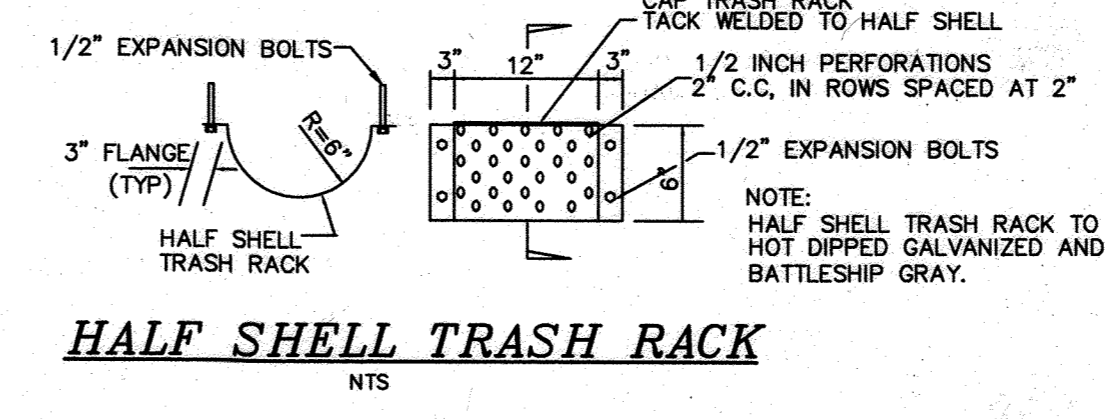
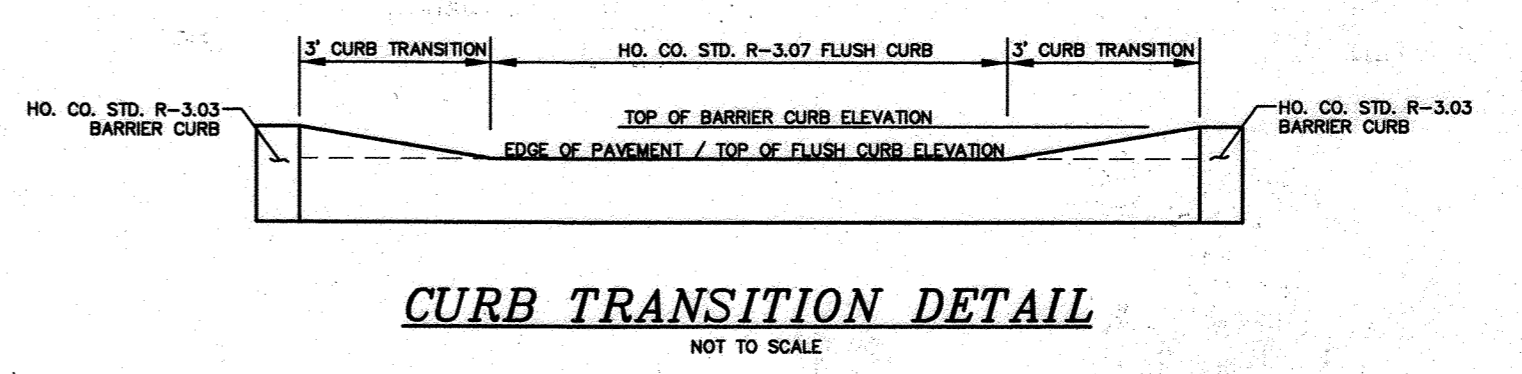
**DIVERSION STRUCTURE DETAIL: DS-1 (I-1)**  
SCALE: 1"=5'



**DIVERSION STRUCTURE DETAIL: DS-4 (I-8)**  
SCALE: 1"=5'



**DIVERSION STRUCTURE DETAIL: DS-5 (M-2A)**  
SCALE: 1"=5'



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
 COUNTY HEALTH OFFICER  
 HOWARD COUNTY HEALTH DEPARTMENT  
 APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 CHIEF, DIVISION OF LAND DEVELOPMENT

**OWNER**  
 WOODBINE BRANTLY, LLC  
 8318 FORREST ST. SUITE 200  
 ELLIGOTT CITY, MARYLAND 21043  
 (410) 992-4600

DATE: 8/1/23

DATE: 7/27/23

DATE: 8/1/23

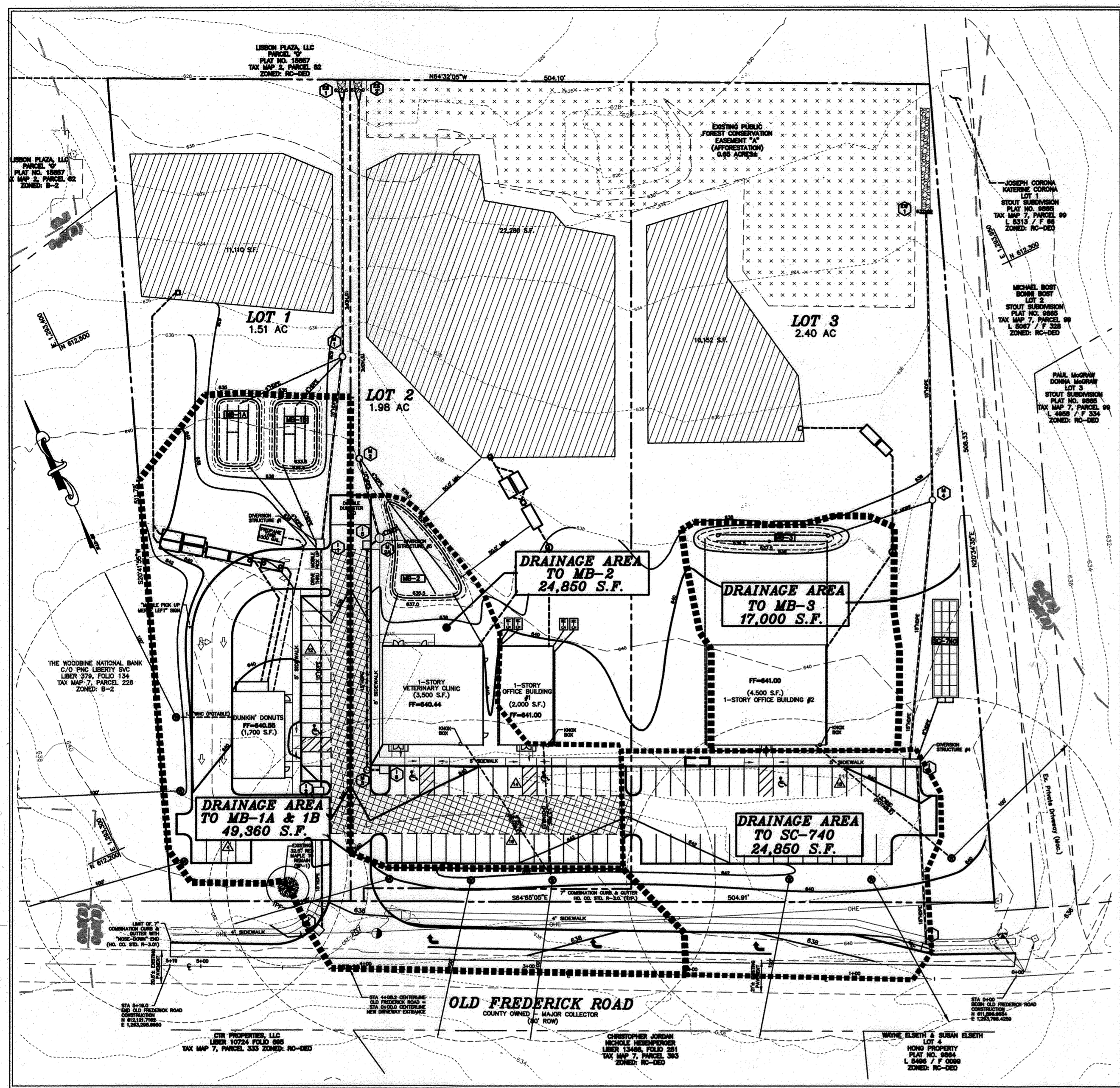
DATE: 06/21/2023

date: JUNE 2023  
 project: 22-020  
 illustration: MAM  
 scale: AS SHOWN  
 approval: MAM  
 SAA

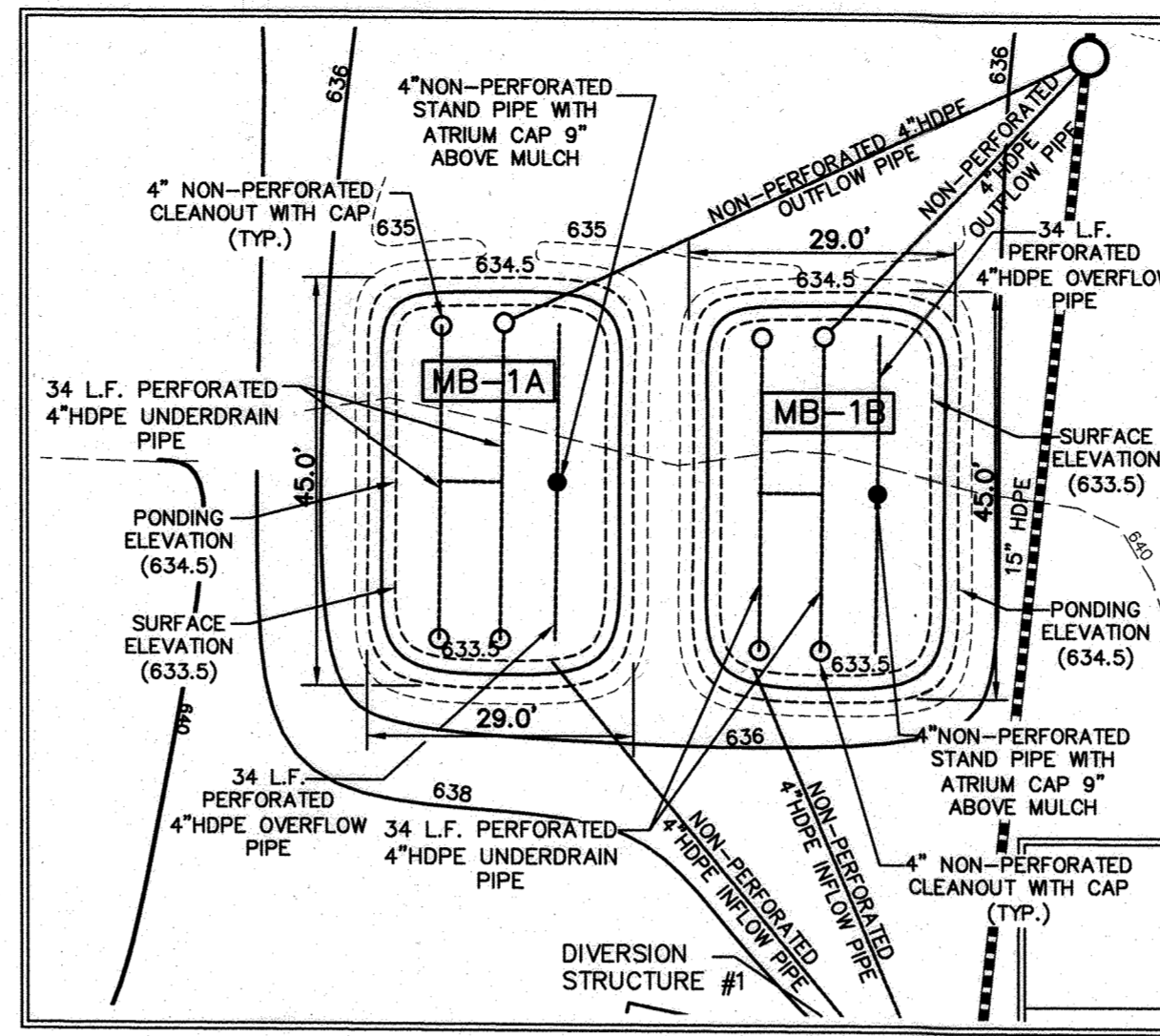
date: \_\_\_\_\_  
 description: \_\_\_\_\_  
 revisions: \_\_\_\_\_

**REVISED**  
**WILSON VILLAGE LOTS: 1-3**  
 15860 OLD FREDERICK ROAD, WOODBINE, MD  
 TAX MAP 7 GRID 6 PARCEL 478  
 4th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
**STORM DRAIN PROFILES AND DETAILS**

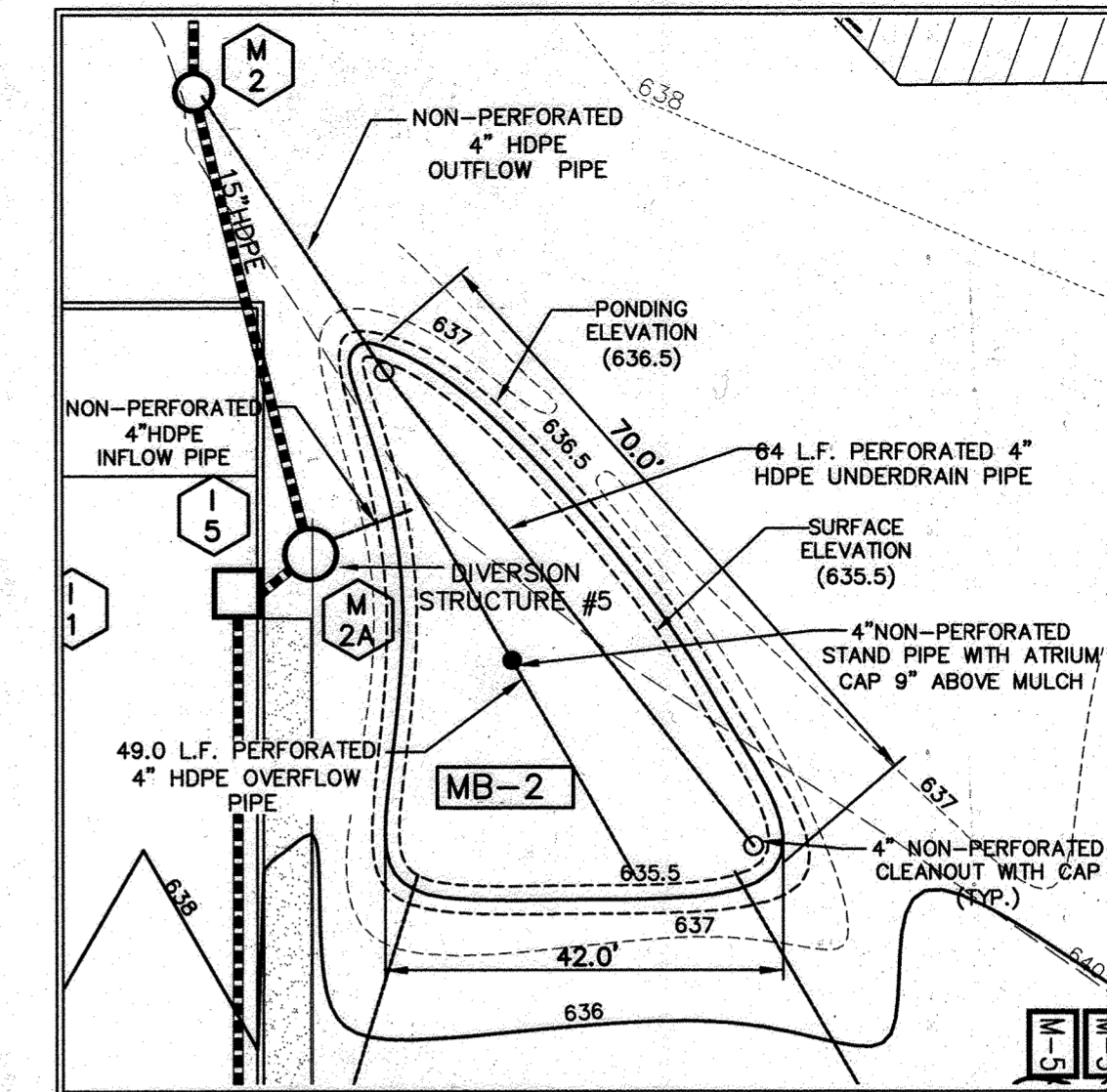
**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 7350-B Grace Drive, Columbia, Maryland 21044  
 (410) 997-0296 Fax: (410) 997-0290 Fax



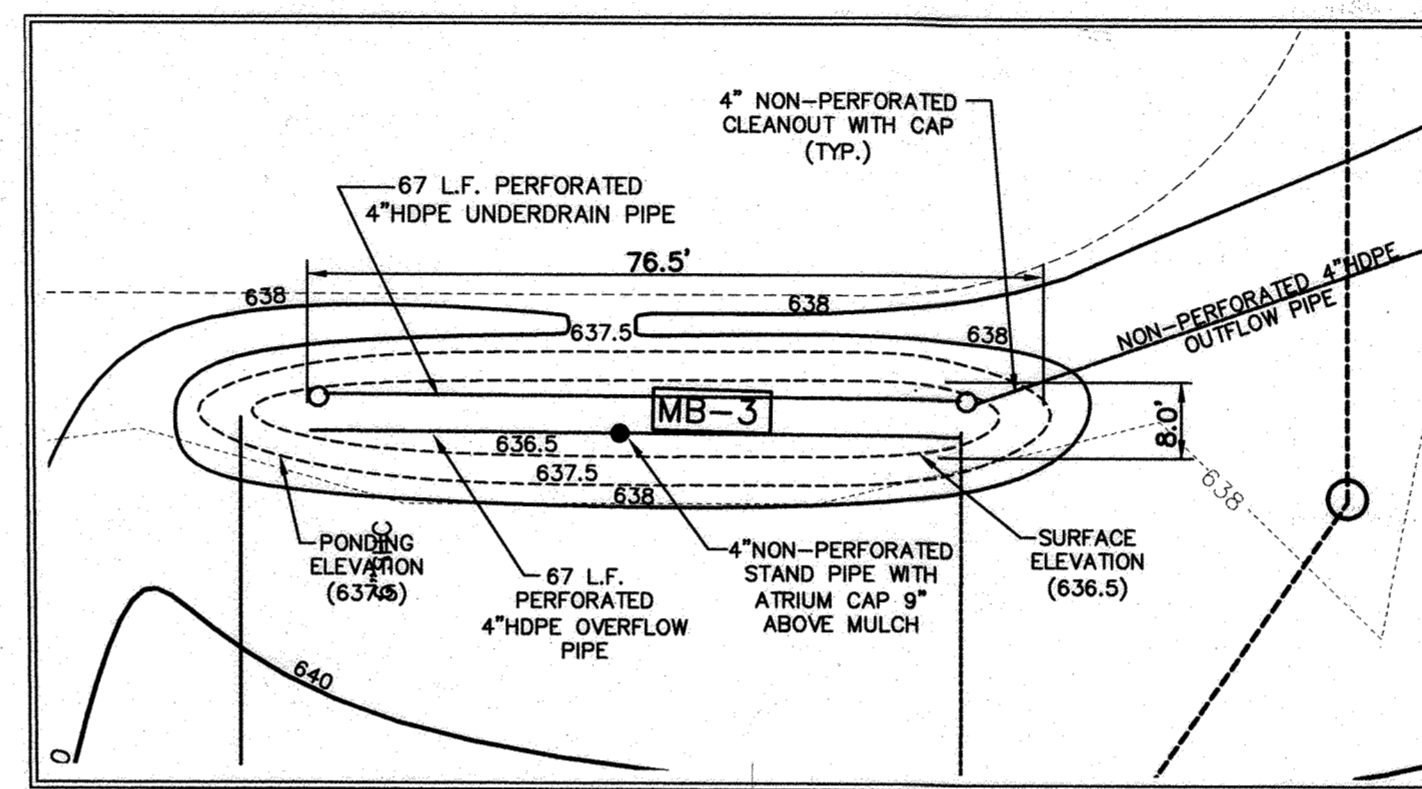
**SWM DRAINAGE AREA MAP**  
SCALE: 1"=50'



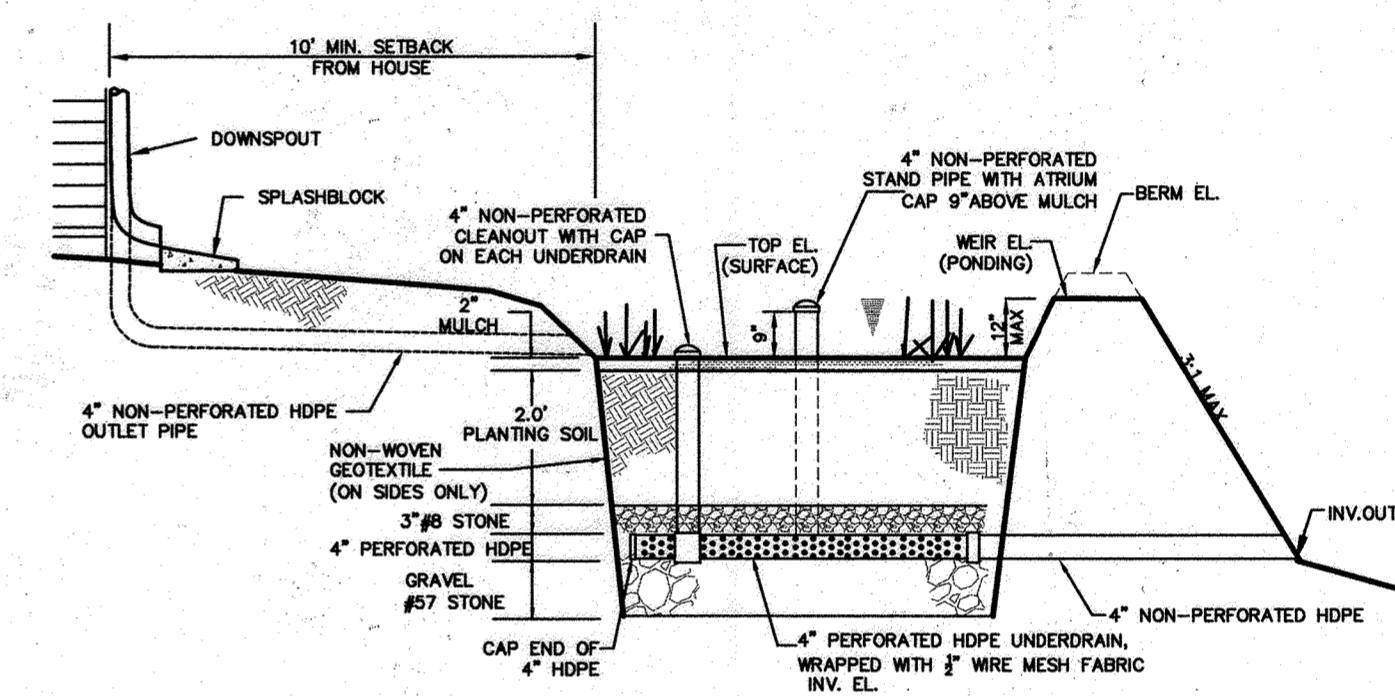
**MB-1A AND MB-1B DETAIL**  
SCALE: 1"=20'



**MB-2 DETAIL**  
SCALE: 1"=20'



**MB-3 DETAIL**  
SCALE: 1"=20'



NOTE - THE ENTIRE DRAINAGE AREA MUST BE FULLY STABILIZED BEFORE RUNOFF CAN BE DIRECTED TO THE FACILITY.

**TYPICAL MICRO-BIORETENTION PROFILE**  
NOT TO SCALE

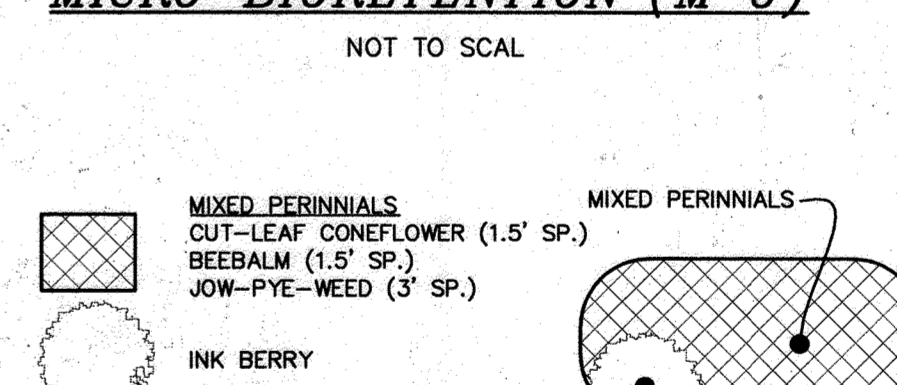
**LEGEND**

- IMPERVIOUS AREA TREATED BY MICRO-BIORETENTION (M-6)
- IMPERVIOUS AREA TREATED BY MODIFIED DRYWELL (M-5) SYSTEM SC-740
- DENOTES MICRO-BIORETENTION (M-6)
- DENOTES MODIFIED DRYWELL (M-5) SYSTEM SC-740
- DENOTES DRAINAGE AREA

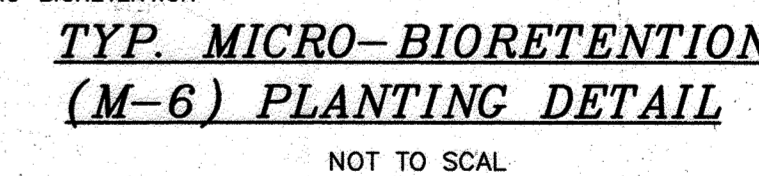
**OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)**

- A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A-4.1 AND 2.
- B. THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- C. THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- D. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

**TYP. SECTION MICRO-BIORETENTION (M-6)**  
NOT TO SCALE



**TYP. MICRO-BIORETENTION (M-6) PLANTING DETAIL**  
NOT TO SCALE

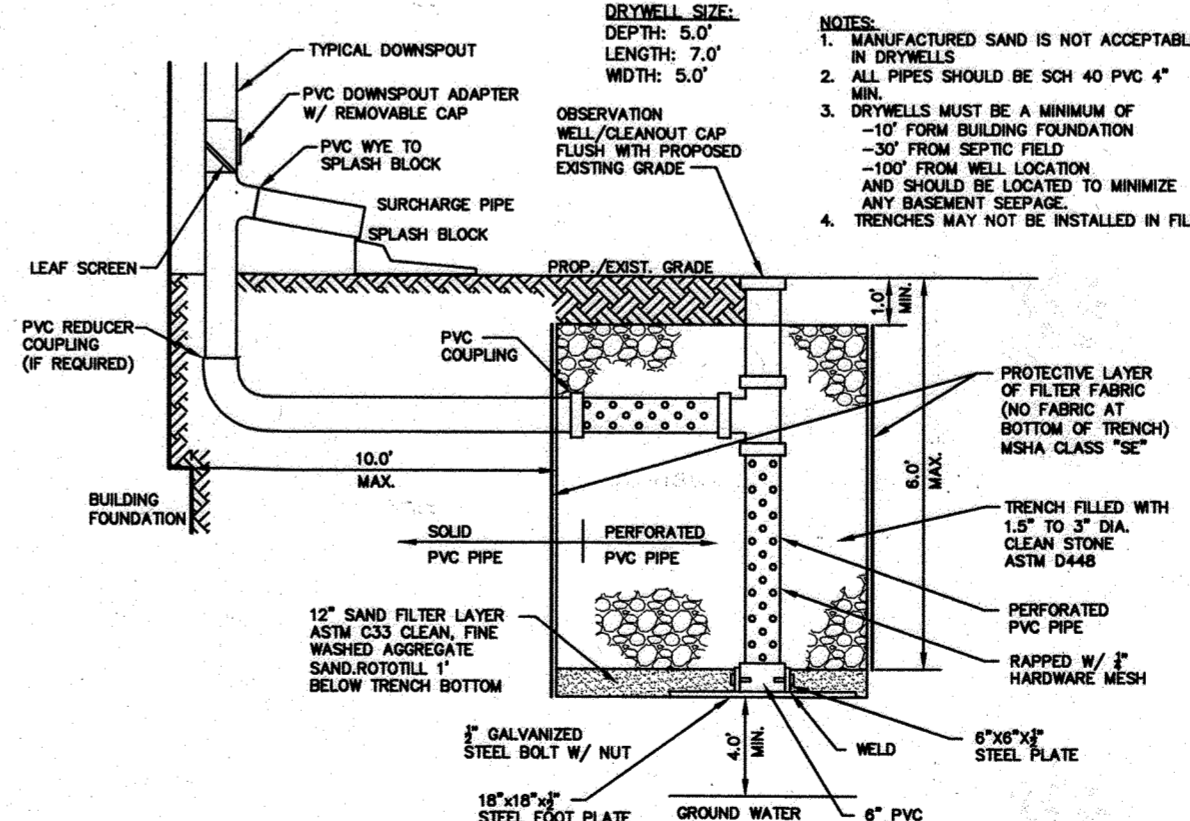


**MICRO-BIORETENTION SCHEDULE**

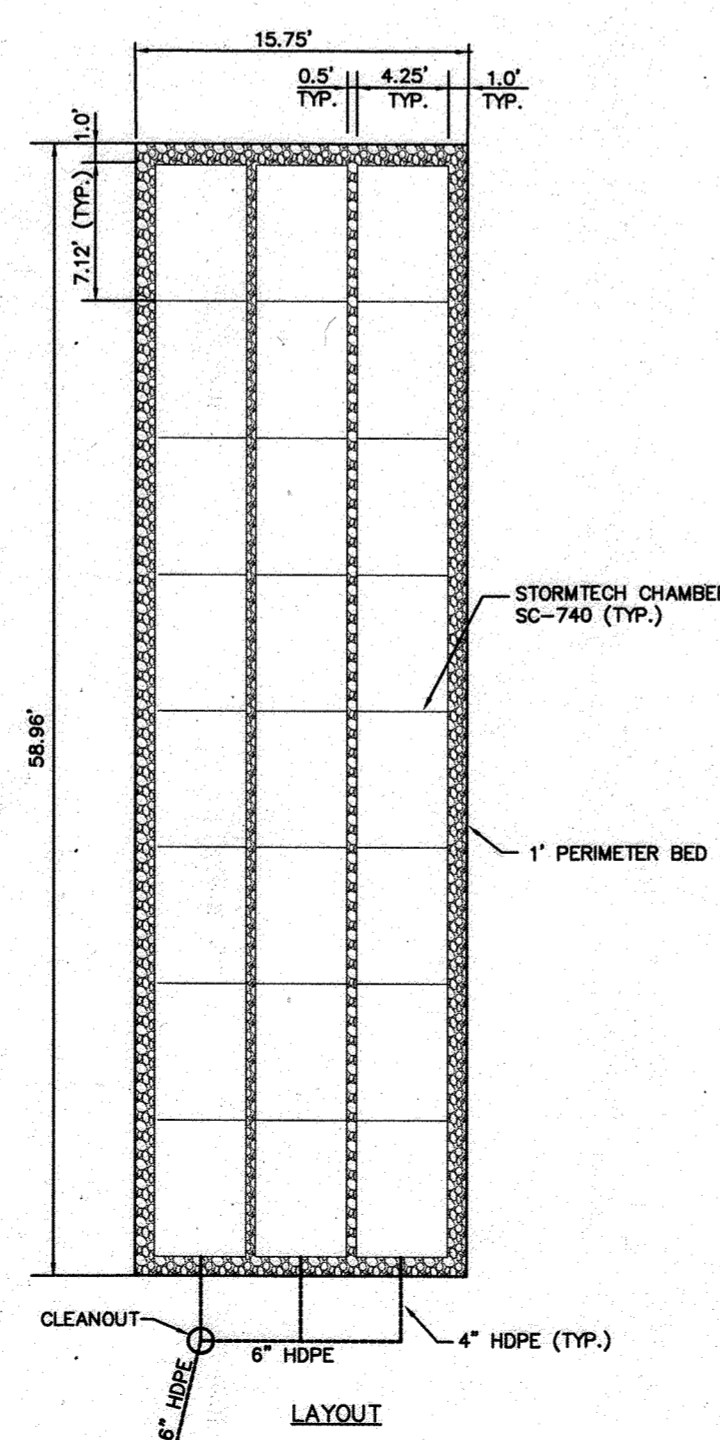
FACILITY	TOP EL. (SURFACE)	WEIR EL. (PONING)	BERM EL.	INV. IN.	INV. OUT.	SURFACE AREA	PONING AREA	PONING DEPTH	GRAVEL DEPTH BELOW UNDERDRAIN	SITE SLOPE
MB-1A	633.50	634.50	635.00	630.75	630.00	870 S.F.	1,260 S.F.	12"	15"	3:1
MB-1B	633.50	634.50	630.75	630.00	870 S.F.	1,260 S.F.	12"	15"	3:1	
MB-2	635.50	636.50	637.00	632.75	630.00	1,170 S.F.	1,680 S.F.	12"	12"	3:1
MB-3	636.50	637.50	638.00	633.75	632.41	830 S.F.	1,320 S.F.	12"	12"	3:1

**OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)**

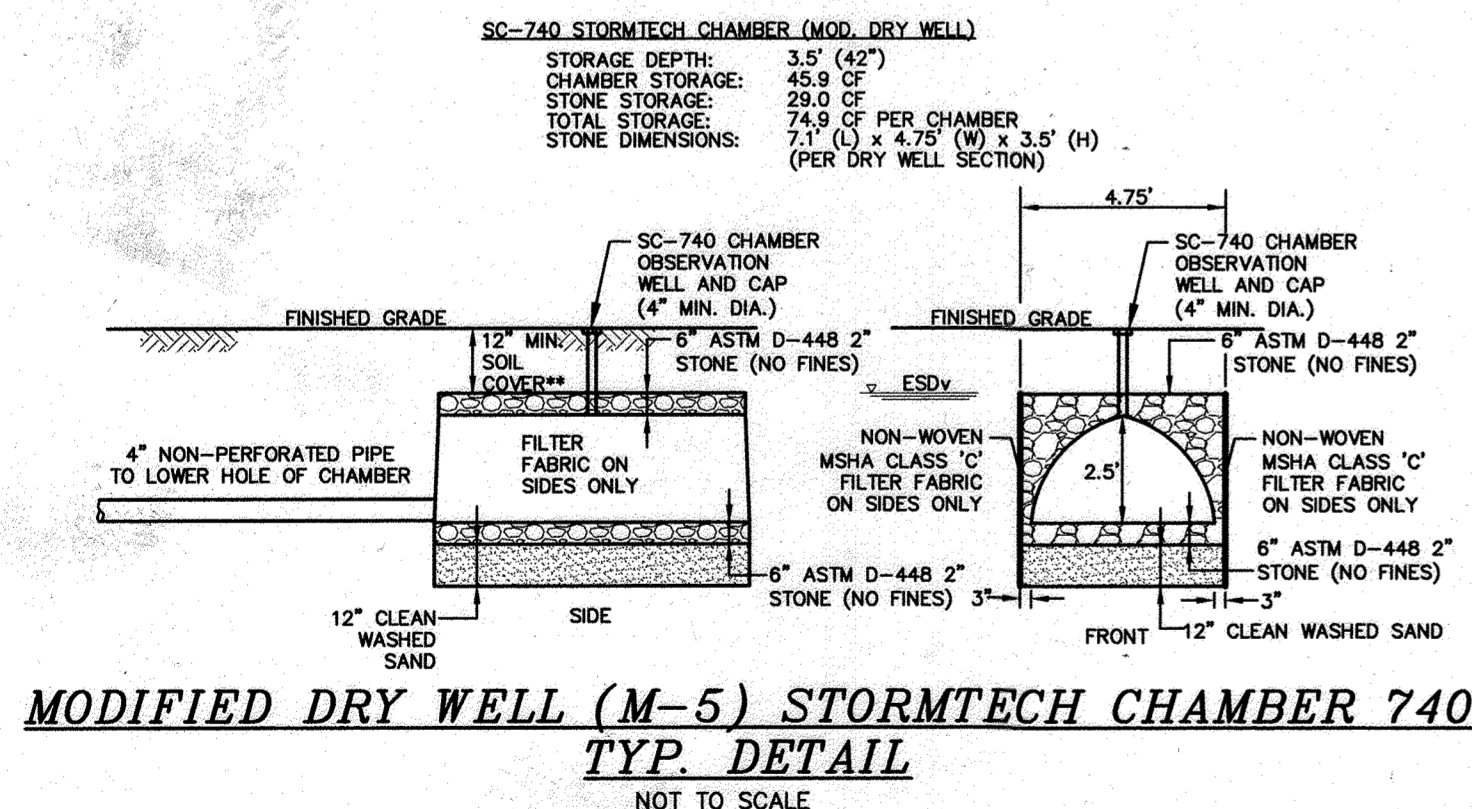
- A. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- B. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.
- C. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- D. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- E. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO ENSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- F. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.



**DRYWELL (M-5) TYP. DETAIL**  
NOT TO SCALE



**MODIFIED DRYWELL (M-5) STORMTECH CHAMBER 740 SYSTEM DETAILS**  
NOT TO SCALE



**MODIFIED DRYWELL (M-5) STORMTECH CHAMBER 740 TYP. DETAIL**  
NOT TO SCALE

NOTE: ADJUST COVER OVER CHAMBER TO ENSURE THAT THE CLEAN WASHED SAND LAYER IS NOT PLACED IN FILL.

**APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS**  
 COUNTY HEALTH OFFICER  
 HOWARD COUNTY HEALTH DEPARTMENT  
 APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 CHIEF, DIVISION OF LAND DEVELOPMENT

**OWNER**  
 WOODBINE BRANTLY, LLC  
 18 FORREST ST. SUITE 200  
 ANNAPOLIS CITY, MARYLAND 21043  
 (410)992-4600  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 28699, EXP. DATE 06/08/25  
 SHEILA A. ALONER, P.E.  
 DATE: 08/21/2023

project date: JUNE 2022  
 illustration: 22-020  
 scale: M/M  
 approval: M/M  
 AS SHOWN SAA

description: SWM DRAINAGE AREA MAP AND SWM DETAILS  
 revisions: none

REVISED  
 WILSON VILLAGE LOTS: 1-3  
 15850 OLD FREDERICK ROAD, WOODBINE, MD  
 TAX MAP 7 GRID 6 PARCEL 478  
 HOWARD COUNTY, MARYLAND  
 4th ELECTION DISTRICT  
 SWM DRAINAGE AREA MAP AND SWM DETAILS

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 7850-B Grace Drive, Columbia, Maryland 21044  
 (410) 997-0296 Fax: (410) 997-0298 Fax

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-1  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				4-5	10	10
1	D	Brown, moist, medium dense silty sandy clay (CL-MI) with weathered rock fragments (ML)	No groundwater encountered while drilling			8-11	24	24
10		Bottom of Hole at 5.0'	Backfilled at completion					

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-2  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				10-8	11	11
1	D	Brown, moist, medium dense silty sandy SILT with rock fragments (ML)	No groundwater encountered while drilling			4-6	16	16
10		Bottom of Hole at 5.0'	Backfilled at completion					

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-3  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				5-6	15	15
1	D	Brown, dry to moist, medium dense fine sandy SILT with weathered rock (ML)	No groundwater encountered while drilling			9-12	23	23
10		Bottom of Hole at 4.0'	Backfilled at completion					

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-4  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				7-4	8	8
1	D	Brown, moist, medium dense silty sandy SILT, trace clay and mica (ML)	No groundwater encountered while drilling			4-5	9	9
10		Bottom of Hole at 4.0'	Backfilled at completion					

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-5  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				5-3	6	6
1	D	Brown, moist, medium dense silty sandy CLAY (CL-MI)	No groundwater encountered while drilling			3-4	7	7
10		Bottom of Hole at 4.0'	Backfilled at completion					

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-6  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				3-4	8	8
1	D	Change from moist, medium dense silty sandy CLAY (CL-MI) to stiff sandy CLAY (CL-ML)	No groundwater encountered while drilling			5-6	11	11
10		Bottom of Hole at 4.0'	Backfilled at completion					

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-7  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				13-6	11	11
1	D	Light brown, moist, medium dense silty SAND, trace gravel (SM) - CONTINUED Change from moist, medium dense silty sandy CLAY (CL-MI)	No groundwater encountered while drilling			5-6	11	11
10		Bottom of Hole at 4.0'	Backfilled at completion					

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-8  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				2-3	6	6
1	D	Light brown, moist, medium dense silty SAND, trace clay (ML)	No groundwater encountered while drilling			4-5	10	10
10		Bottom of Hole at 6.0'	Backfilled at completion			3-6	9	9

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-9  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				5-7	13	13
1	D	Change from moist, medium dense silty sandy SILT with weathered rock (ML)	No groundwater encountered while drilling			9-12	23	23
10		Bottom of Hole at 5.0'	Backfilled at completion					

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-10  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				9-6	11	11
1	D	Change from moist, medium dense silty sandy CLAY (CL-MI) to stiff sandy CLAY (CL-ML)	No groundwater encountered while drilling			8-9	10	10
10		Bottom of Hole at 5.0'	Backfilled at completion					

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-11  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				3-3	5	5
1	D	Brown, dry to moist, medium dense silty sandy CLAY (CL-ML)	No groundwater encountered while drilling			9-12	26	26
10		Bottom of Hole at 6.0'	Backfilled at completion			1-7	17	17

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-12  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				3-3	6	6
1	D	Brown, moist, medium dense silty sandy SILT, little clay (ML)	No groundwater encountered while drilling			4-6	10	10
10		Bottom of Hole at 6.0'	Backfilled at completion			5-6	11	11

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

ENGINEERING ASSOCIATES, INC.  
RECORD OF SOIL EXPLORATION

Project Name: Wilson Village SWM Boring No. B-13  
Location: Howard County, Maryland Job # 13240A

Date: 8-02-13  
Hammer Wt: 140 lb. Hole Diameter: 6" Foreman: T. Carroll  
Surf. Elev.: 8' Hammer Drop: 30" Rock Core Diameter: Inspector:  
Date Started: 8-02-13 Pipe Size: 2.0" Boring Method: HSA Date Completed: 8-02-13

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Fluc.	N/MPL	SPT Blows	N	SPT Blows/Feet Curve
0	D	2" Topsoil				9-5	8	8
1	D	Brown, moist, medium dense silty sandy CLAY, trace rock fragments (CL-MI) Possible Fill	No groundwater encountered while drilling			7-7	16	16
10		Bottom of Hole at 6.0'	Backfilled at completion			8-11	21	21
15						9-11	19	19

SAMPLER TYPE: OPEN END SPOON UNLESS OTHERWISE NOTED  
SAMPLING METHOD: HSA - HOLLOW STEM AUGER  
SAMPLER CONDITION: D - IDENTIFIED  
SAMPLER LOCATION: I - INTACT  
SAMPLER ORIENTATION: U - UNDISTURBED  
SAMPLER TYPE: CA - CONTINUOUS FLIGHT AUGER  
SAMPLER TYPE: RC - ROCK CORE

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

WOODBINE BRANTLY, LLC  
8318 FOREST ST., SUITE 200  
ELLCOTT CITY, MARYLAND 21043  
(410)992-4600

OWNER

DATE: 8/16/21

DATE: 11/8/21

DATE: 11/21/21

DATE: 7/20/21

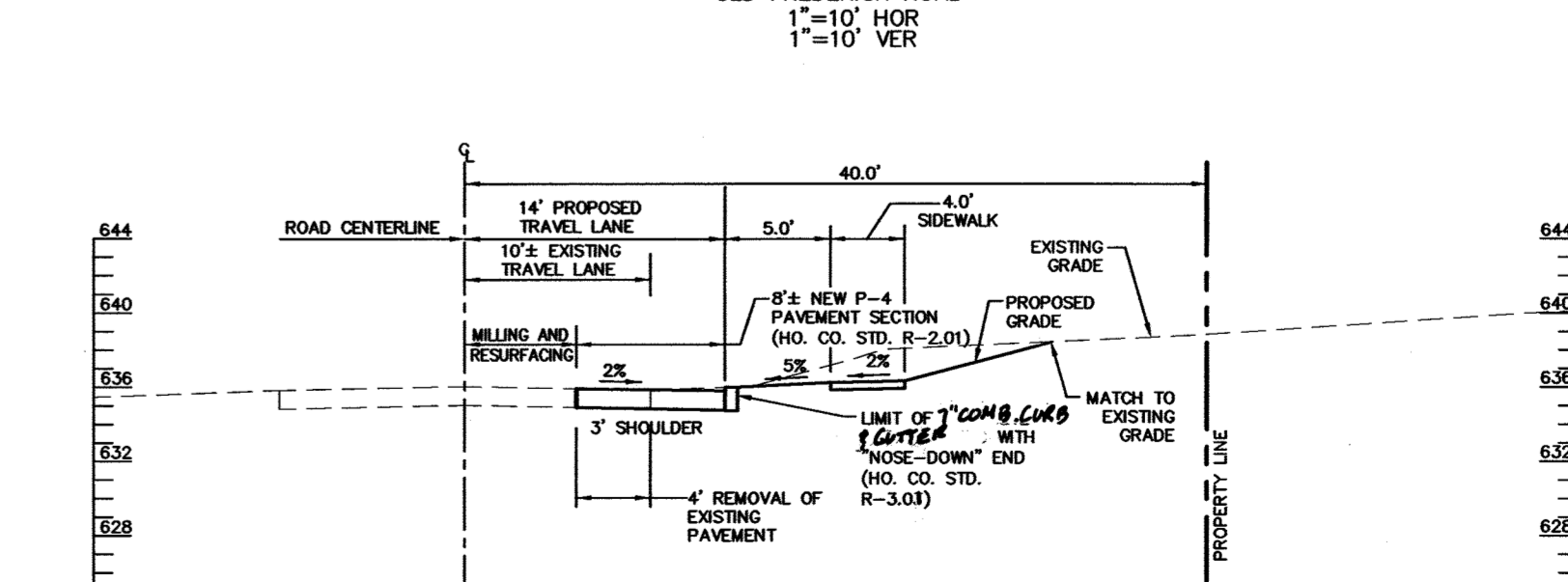
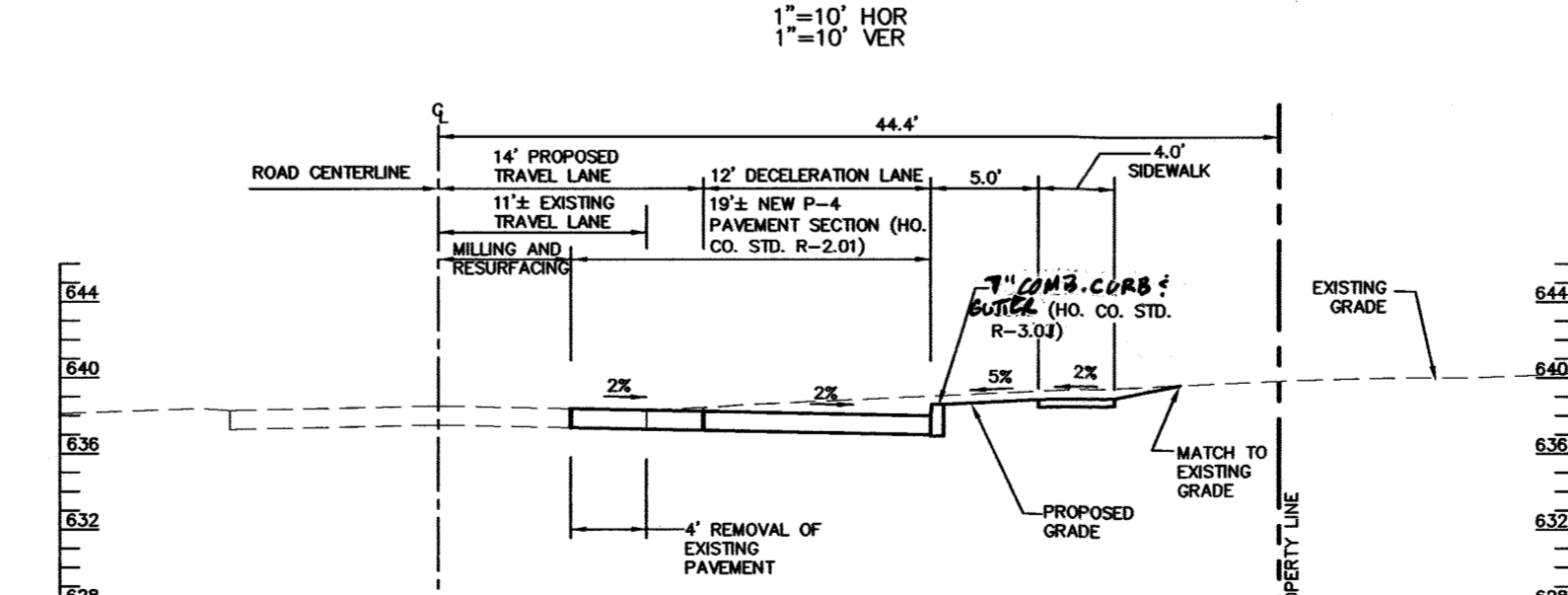
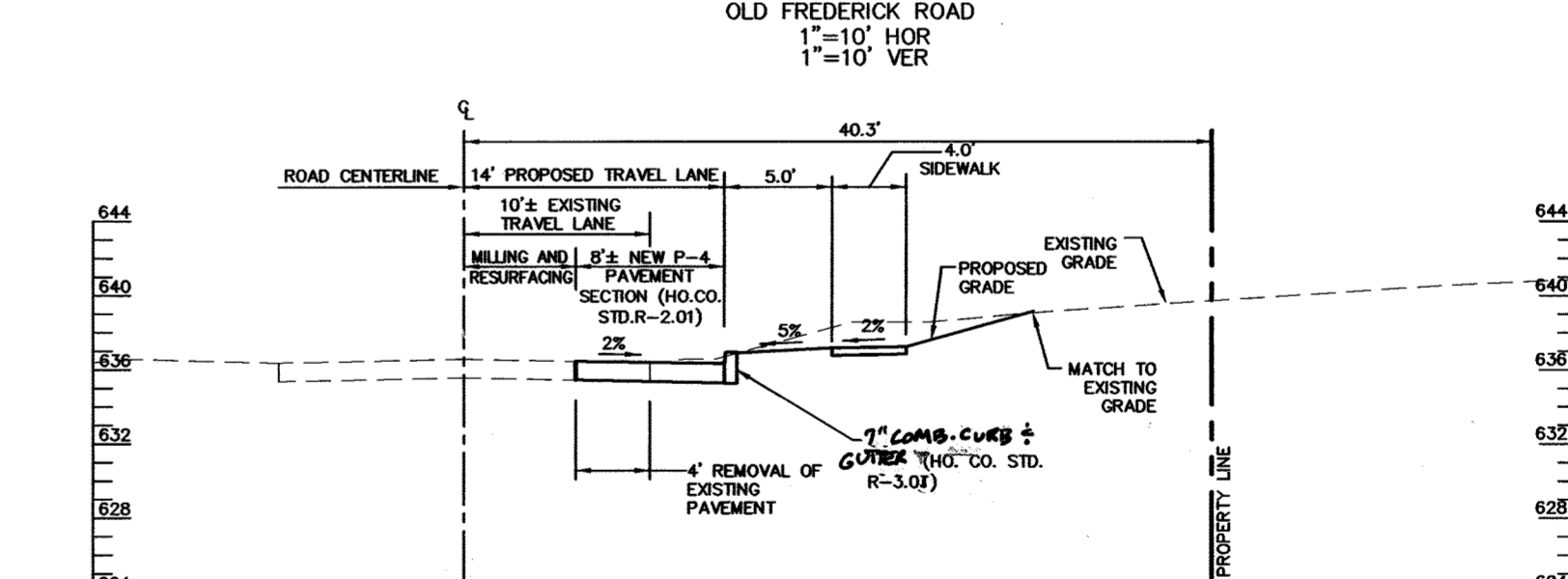
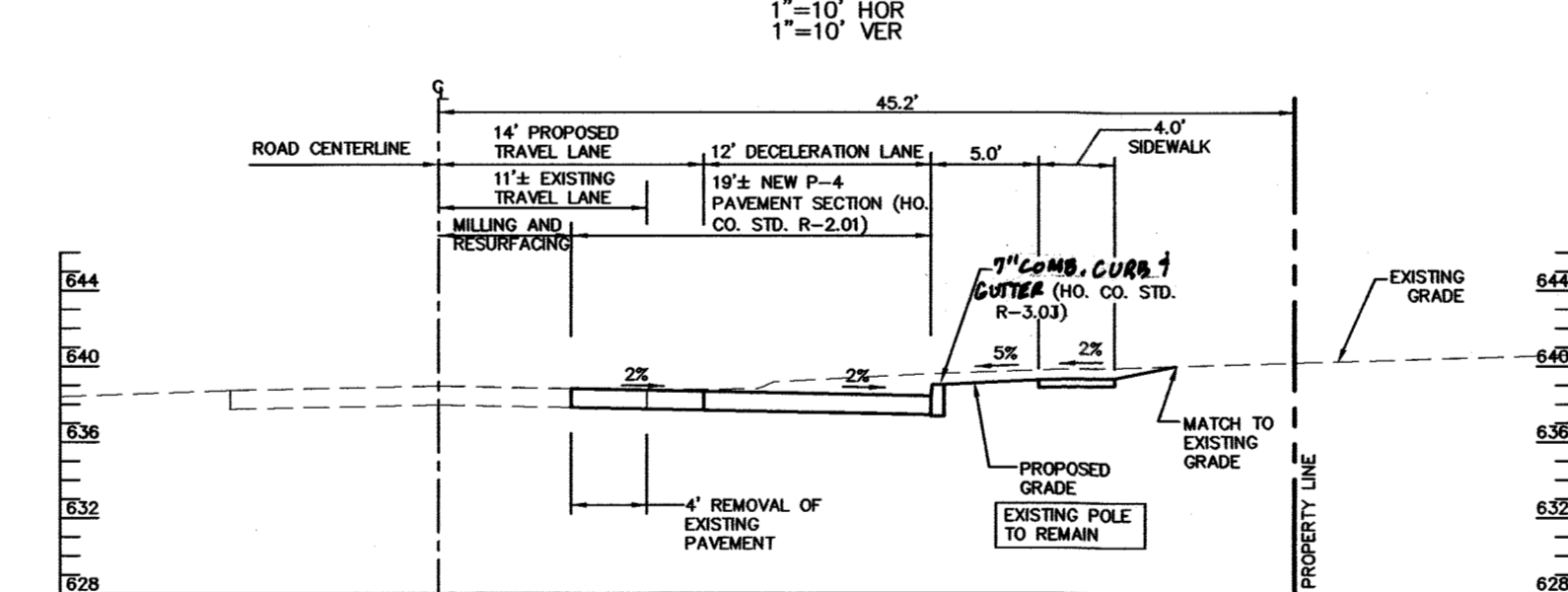
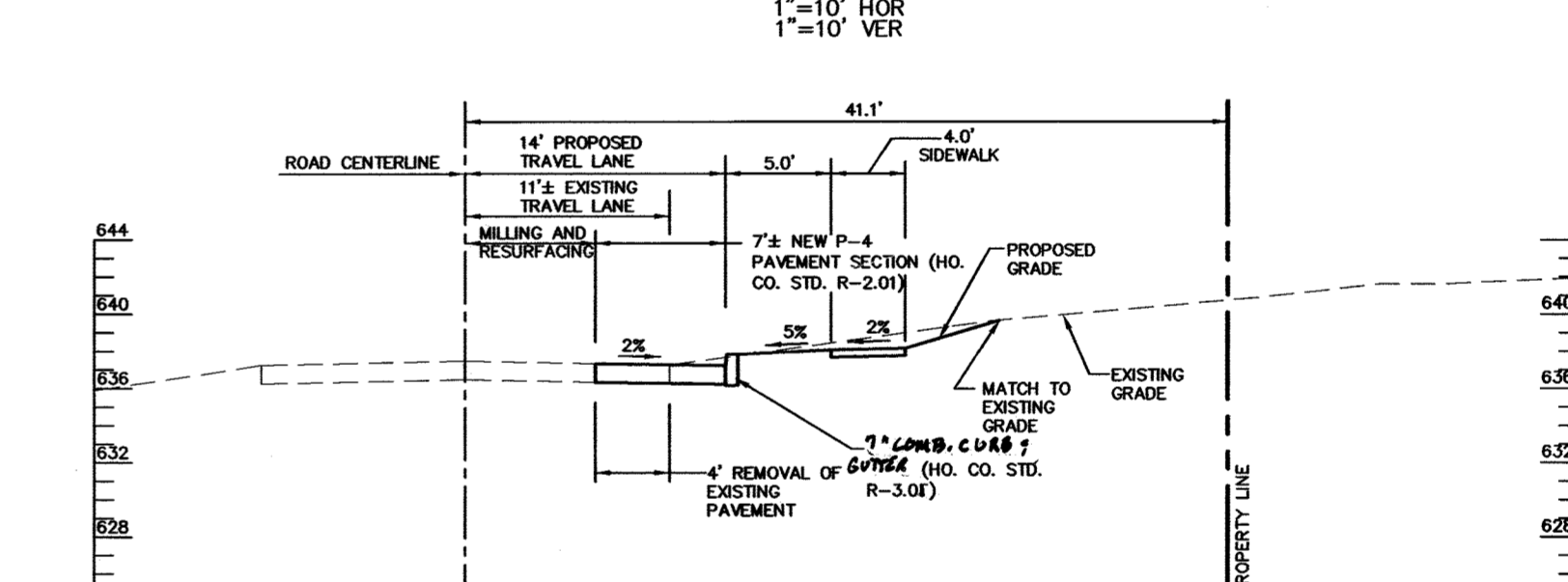
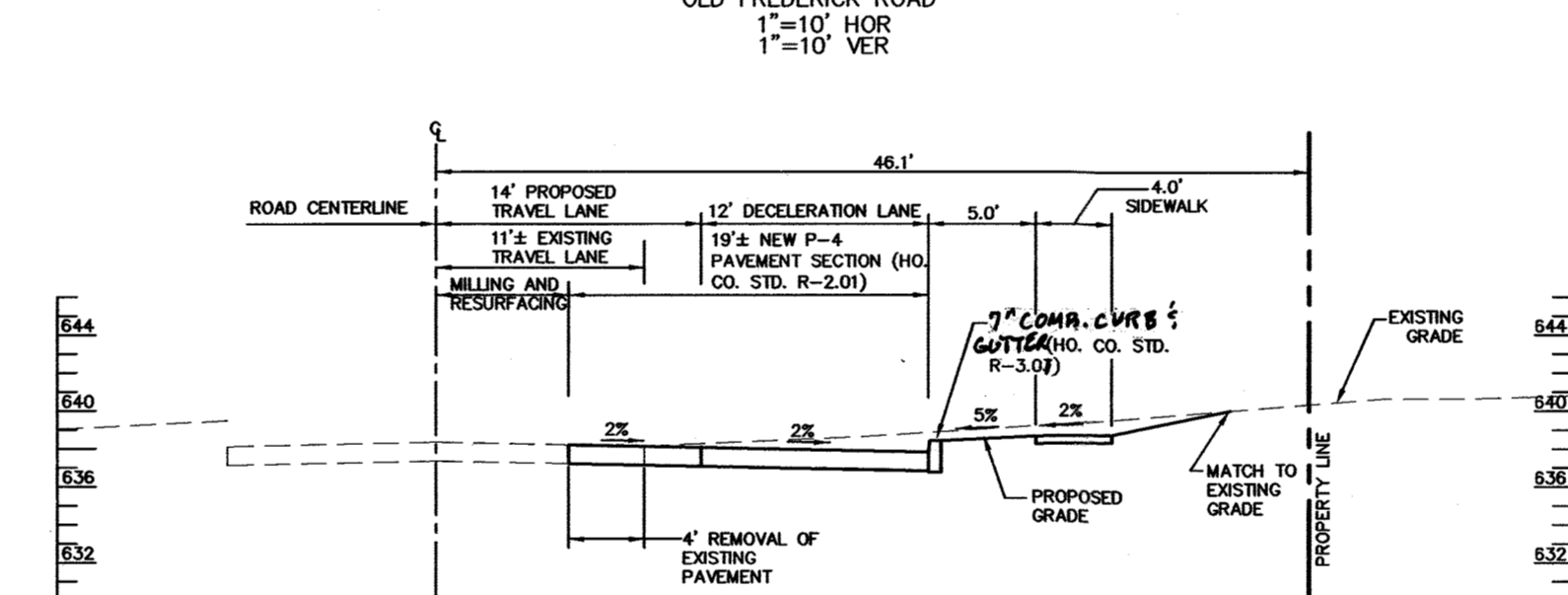
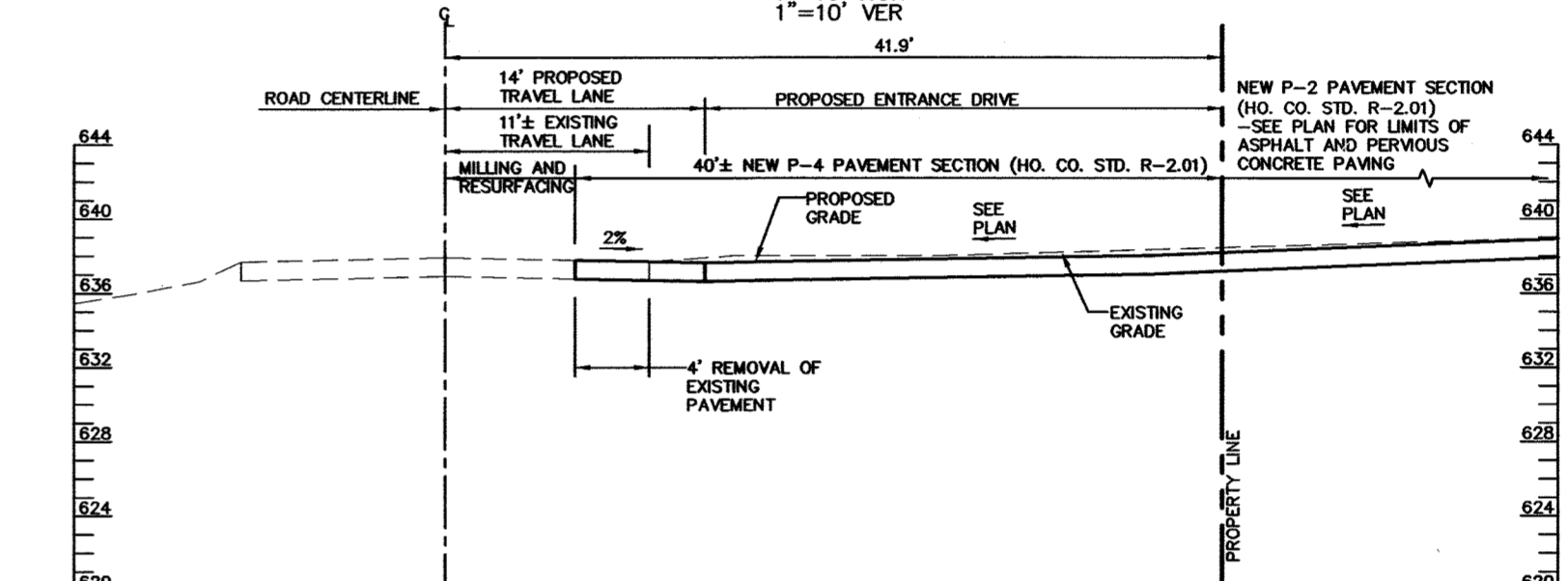
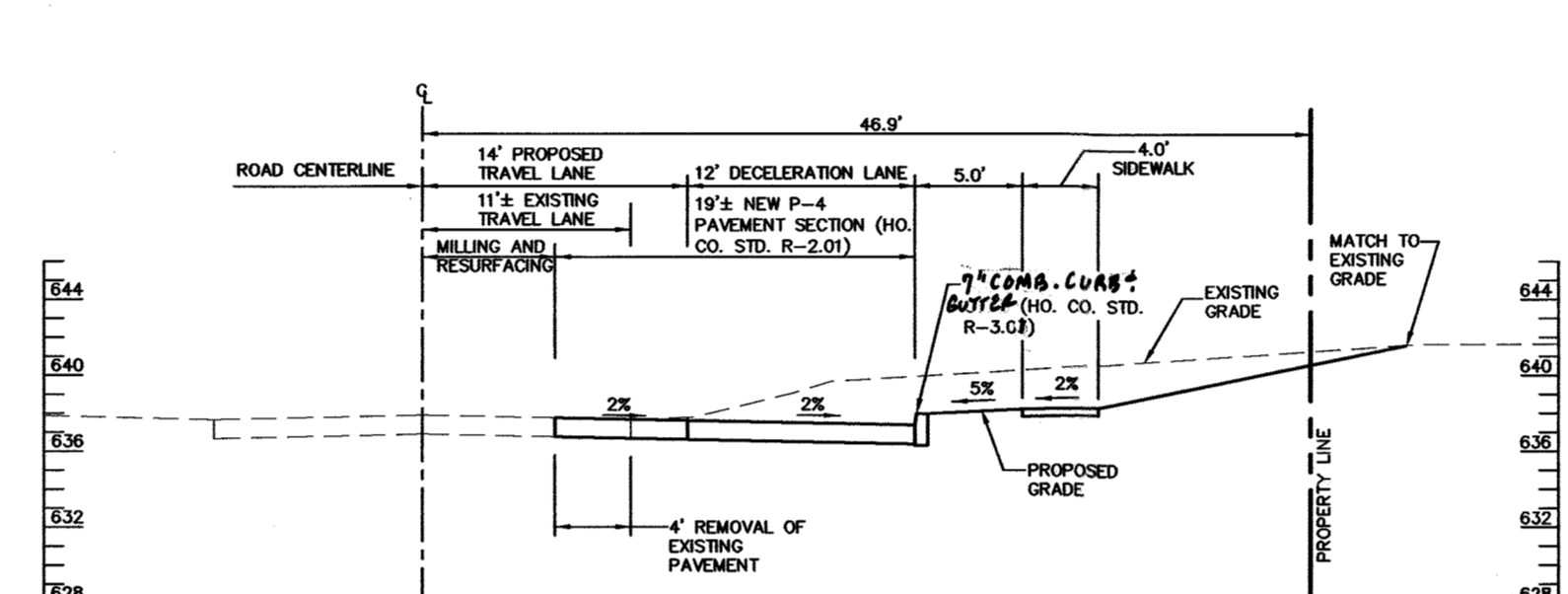
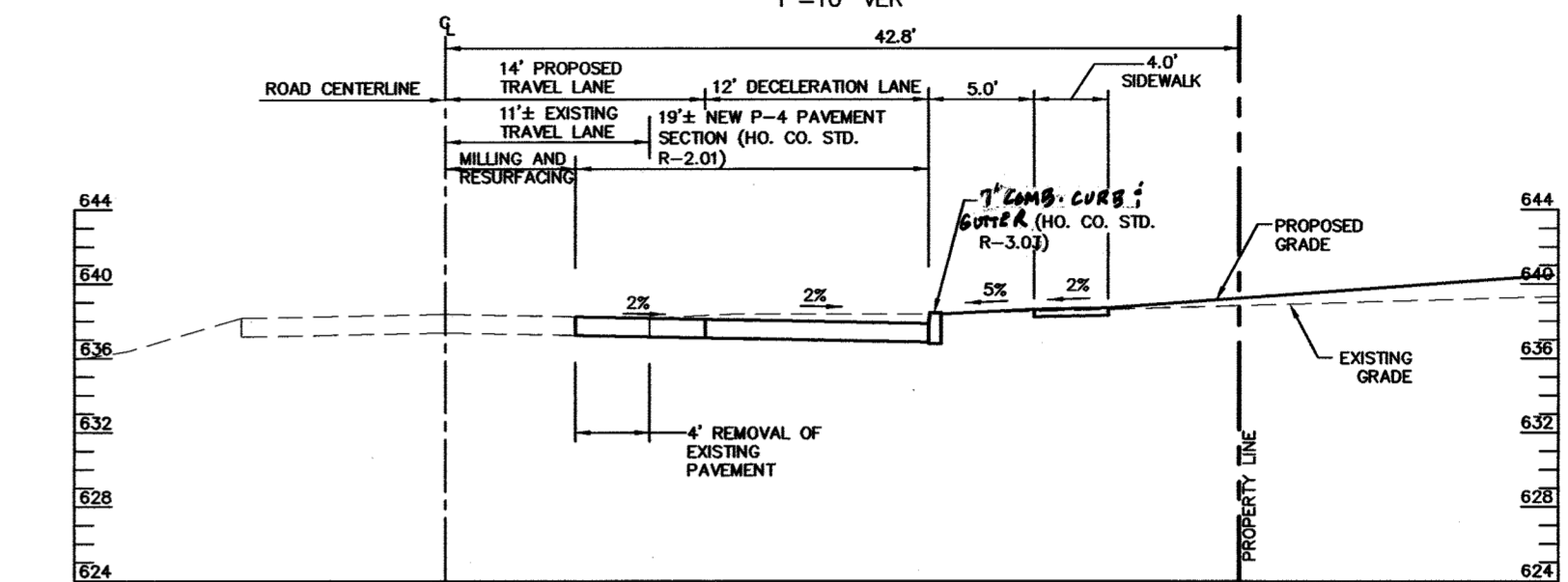
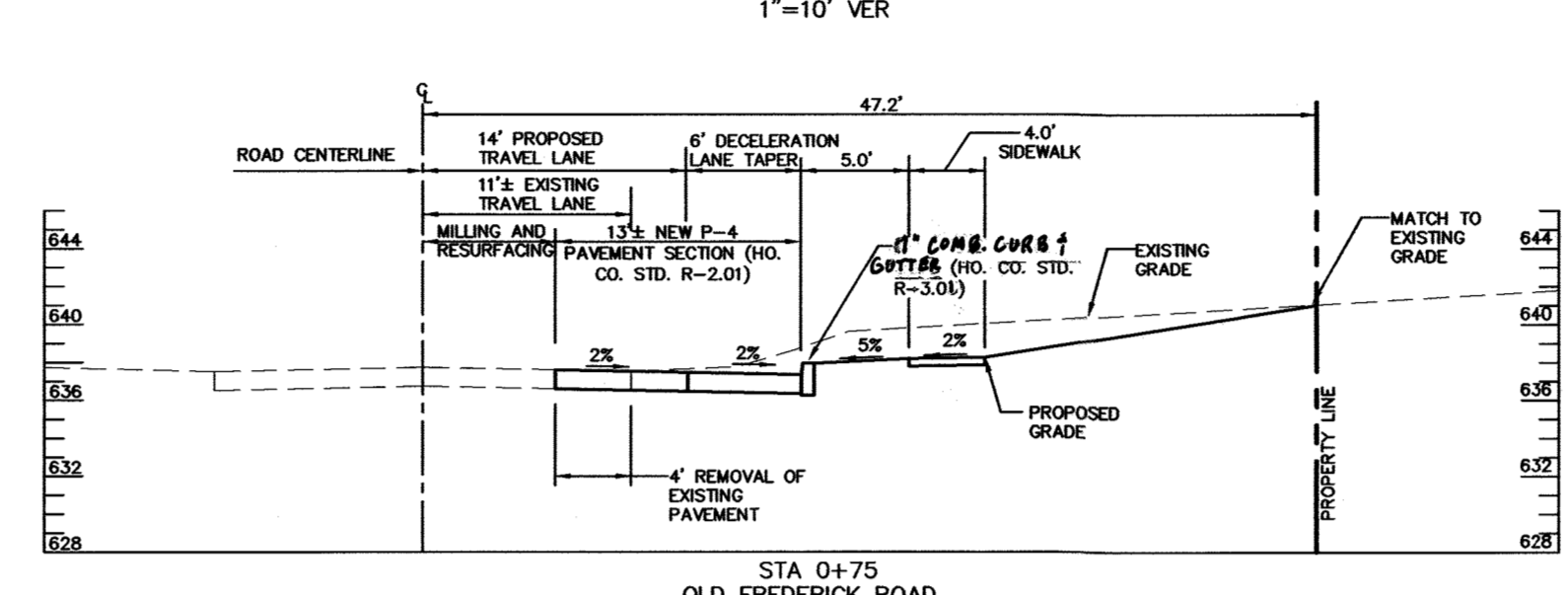
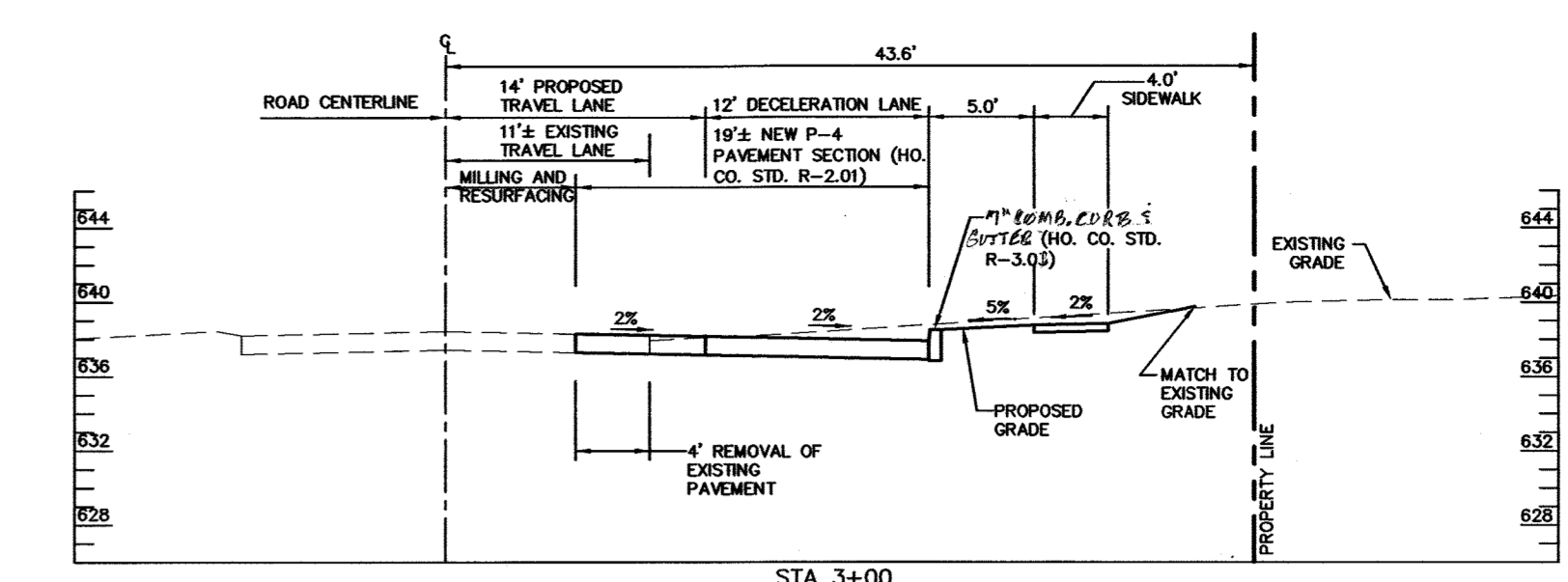
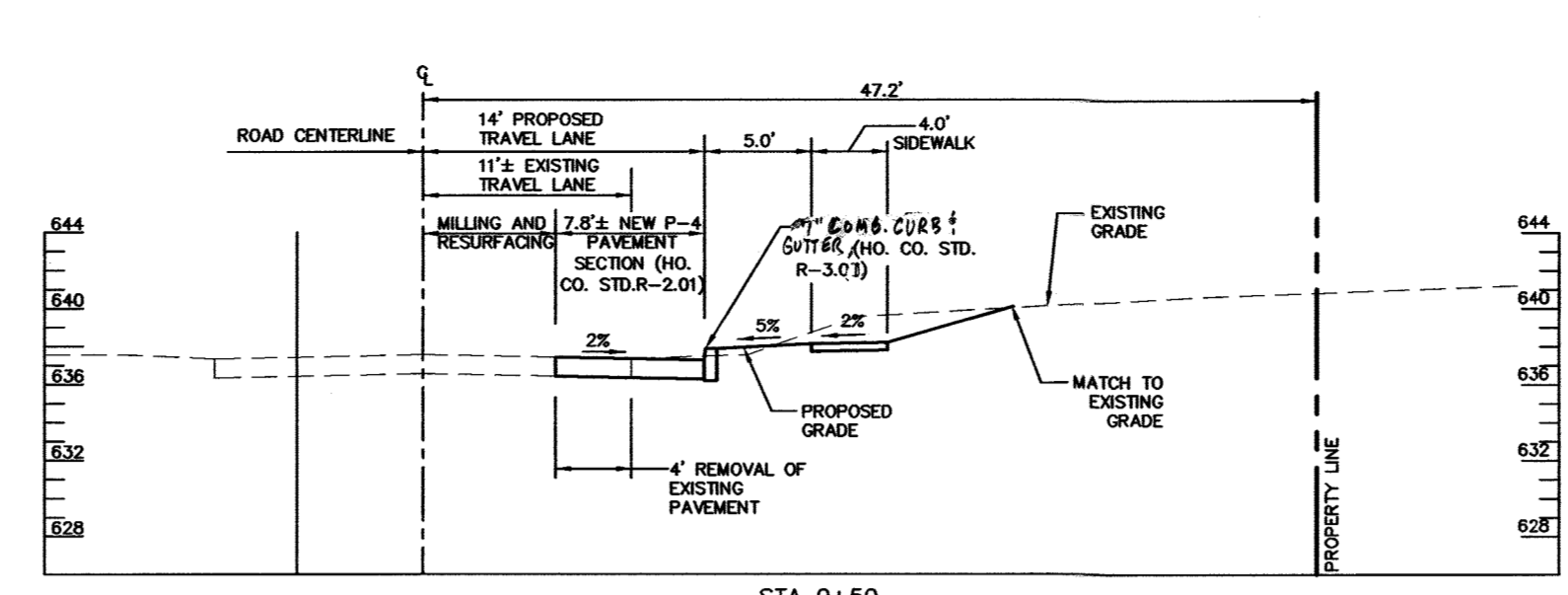
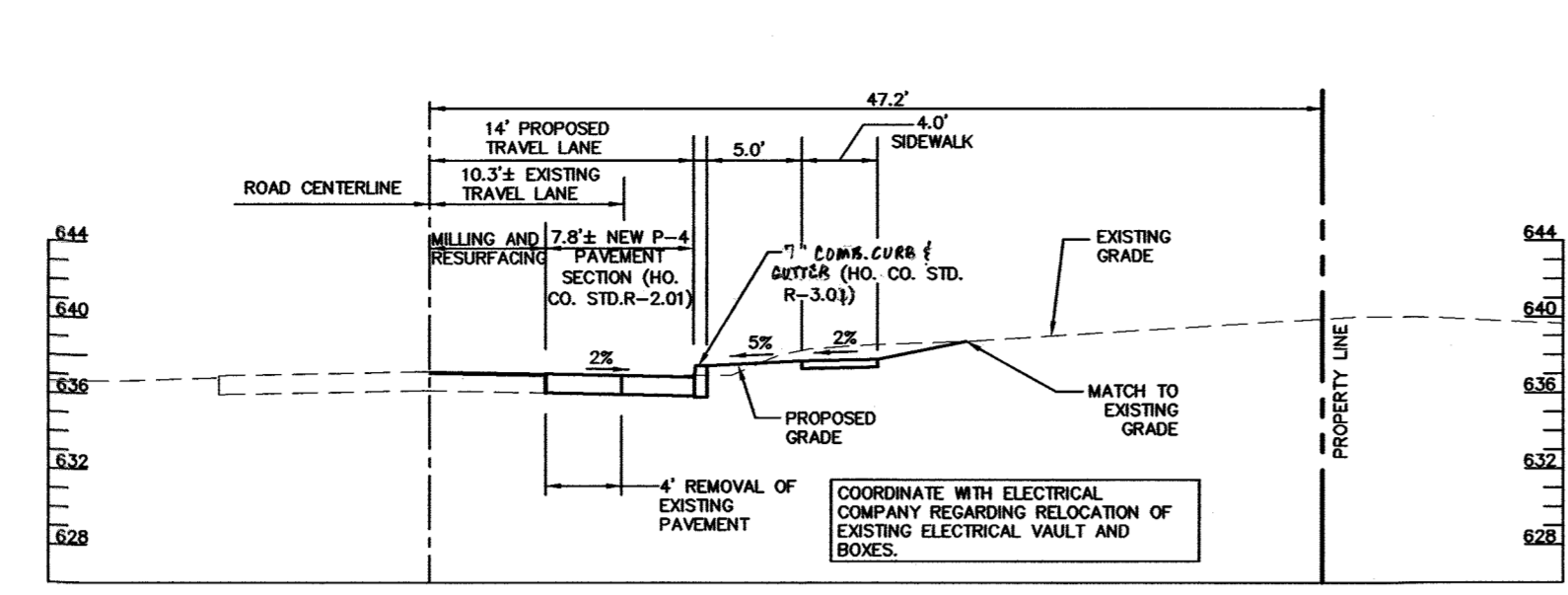
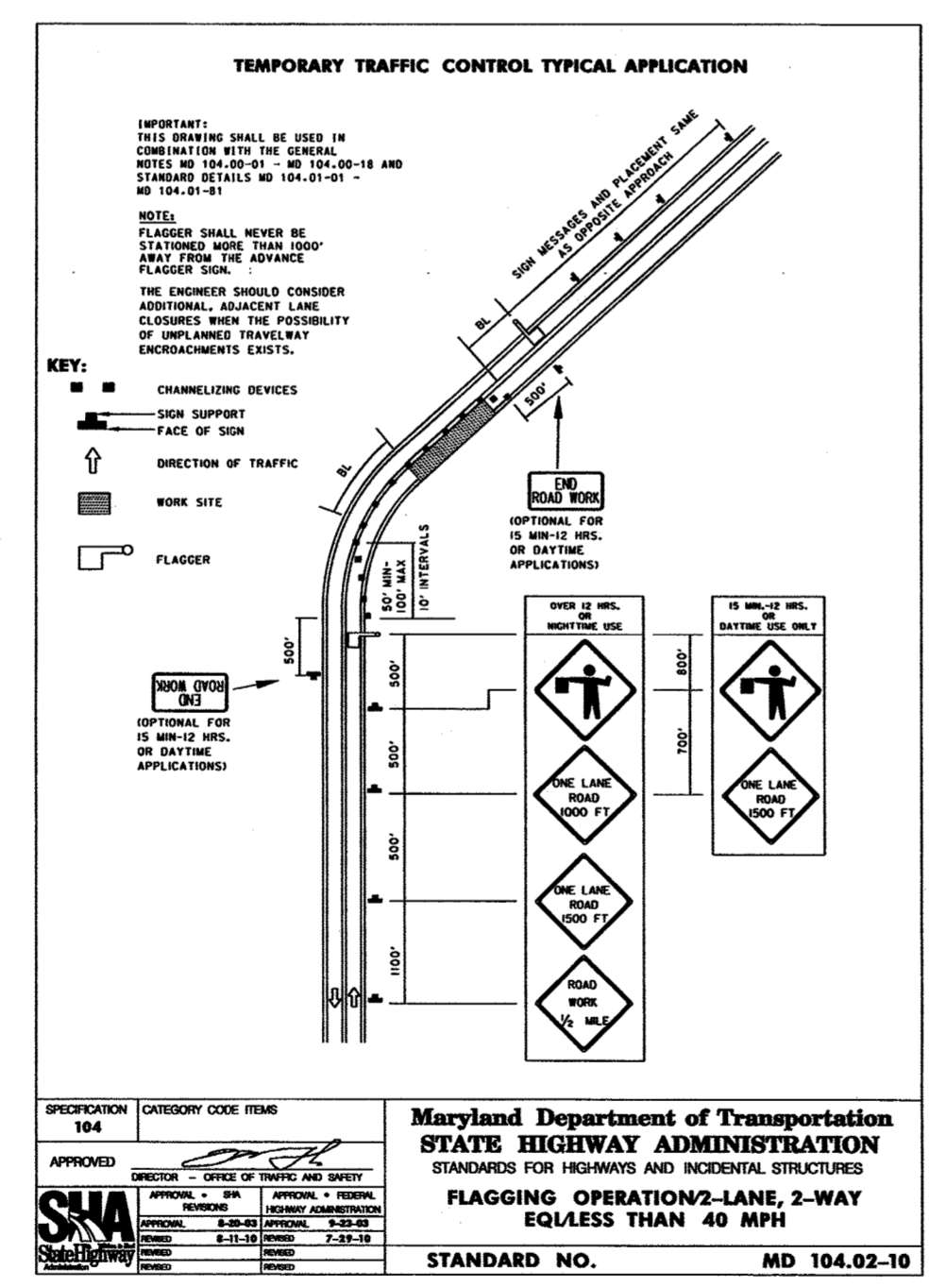
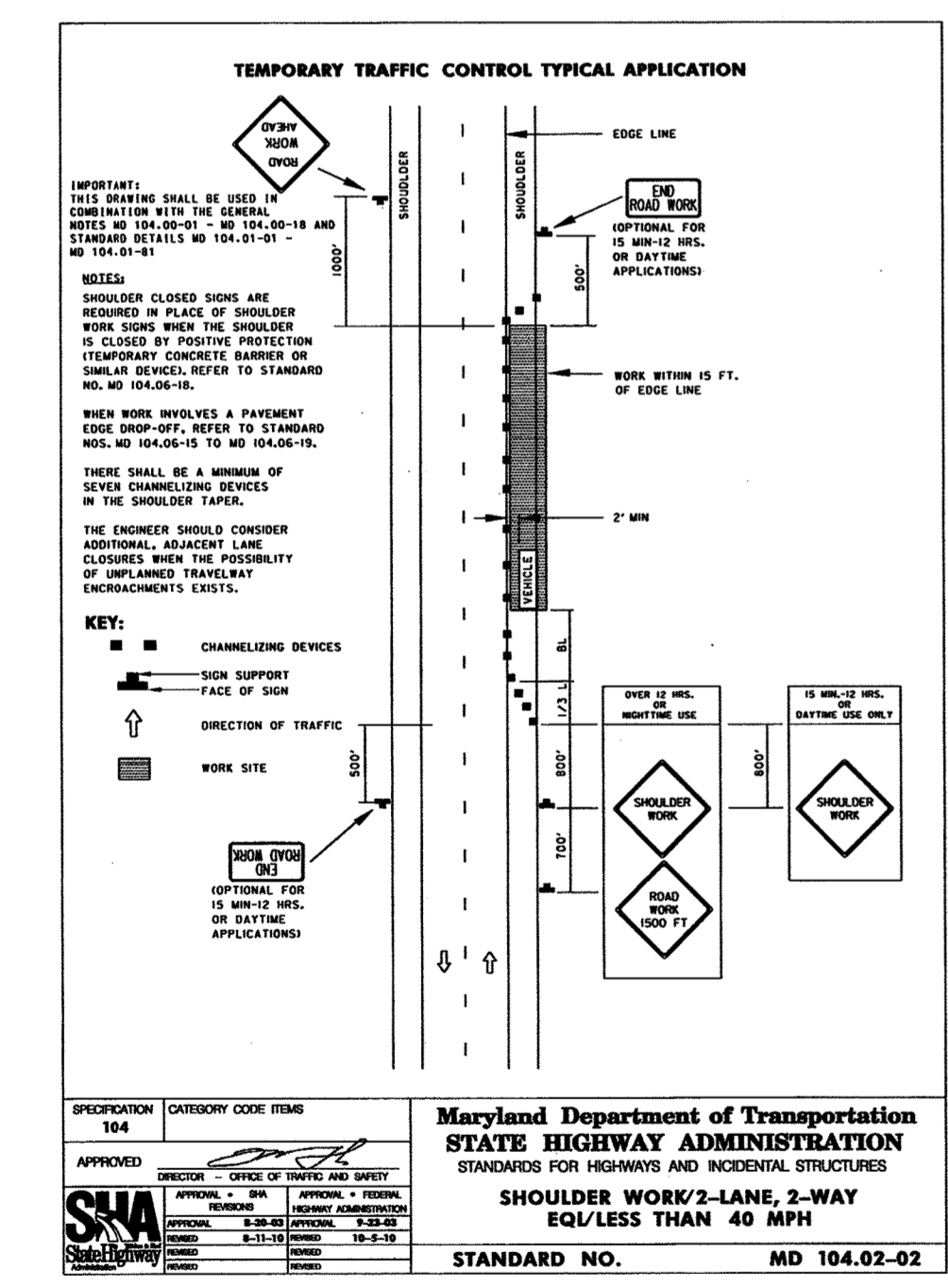
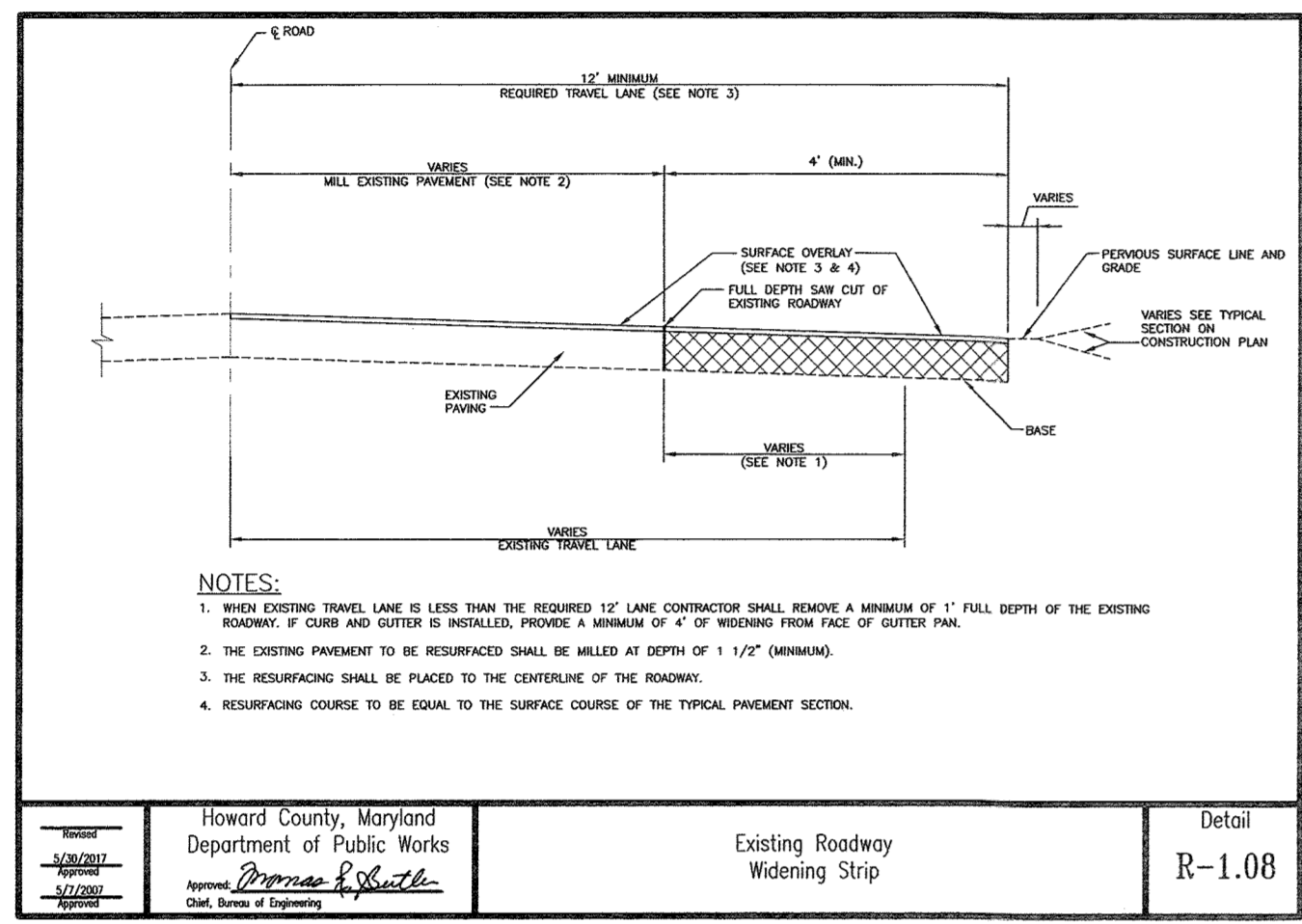
DATE: 7/20/21

DATE: 7/20/21

project date: JULY 2021  
20-026 engineering illustration  
scale: AS SHOWN  
approval: MAM MAM MAM

description: WILSON VILLAGE LOTS: 1-3  
15850 OLD FREDERICK ROAD, WOODBINE, MD  
TAX MAP 7 GRID 6 PARCEL 478  
4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
GEOTECHNICAL SOIL BORINGS LOGS

11 OF 17  
SDP-14-021-R1



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
[Signature] DATE: 9/23/21  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT  
APPROVED: DEPARTMENT OF PUBLIC WORKS  
[Signature] DATE: 11/02/2021  
CHIEF BUREAU OF HIGHWAYS MKK  
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
[Signature] DATE: 8/16/21  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
APPROVED: [Signature] DATE: 11/8/21  
CHIEF, DIVISION OF LAND DEVELOPMENT  
[Signature] DATE: 11/8/21

**OWNER**  
WOODBINE BRANTLY, LLC  
8318 FOREST ST, SUITE 200  
ELLCOTT CITY, MARYLAND 21043  
(410)992-4600

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. 26855, EXP. DATE 08/08/23  
[Signature] DATE: 7/6/20

project	date	approval
20-026	JULY 2021	MM
illustration	scale	AS SHOWN
MM	scale	SAA

no.	description	revisions

**WILSON VILLAGE LOTS: 1-3**  
15850 OLD FREDERICK ROAD, WOODBINE, MD  
TAX MAP 7 GRID 6 PARCEL 478  
HOWARD COUNTY, MARYLAND  
4th ELECTION DISTRICT  
FREDERICK ROAD WIDENING CROSS SECTIONS AND DETAILS

**MILDENBERG & ASSOC., INC.**  
Boender & Assoc., Inc.  
Engineers Planners Surveyors  
7350-B Grace Drive, Columbia, Maryland 21044  
(410) 997-0288 Fax



**SOILS TABLE**

SYMBOL	RATING	DESCRIPTION	K FACTOR	MAP NO.	COMMENTS
GgB	B	GLENELG LOAM, 3 TO 8% SLOPE	.37	2	
GgC	B	GLENELG LOAM, 8 TO 15% SLOPE	.43	2	

**SEPTIC TRENCH SIZING**

SYSTEM	APPLICATION RATE (GPD / SQ. FT.)	MAXIMUM FLOW (GPD)	AREA OF REQUIRED TRENCH (SQ. FT.)	TRENCH WIDTH (FT.)	LENGTH OF REQUIRED TRENCH (LF)	EFFECTIVE DEPTH BEGINS (FT.)	TRENCH BOTTOM DEPTH (FT.)	TRENCH REDUCTION FACTOR**	ADJUSTED LENGTH OF REQUIRED TRENCH (LF)	MINIMUM TRENCH SPACING (FT.)	NUMBER OF TRENCHES	PROVIDED TRENCH LENGTH (FT.)
PRIMARY	0.8	900	1,125	3	375.0	6.5	8.0	0.71	267	10.0	3	89
SECONDARY	0.8	900	1,125	3	375.0	4.5	8.0	0.45	169	10.0	3	57
TERTIARY	0.8	900	1,125	3	375.0	4.5	8.0	0.45	169	10.0	3	57

**SEWER SYSTEM CHART**

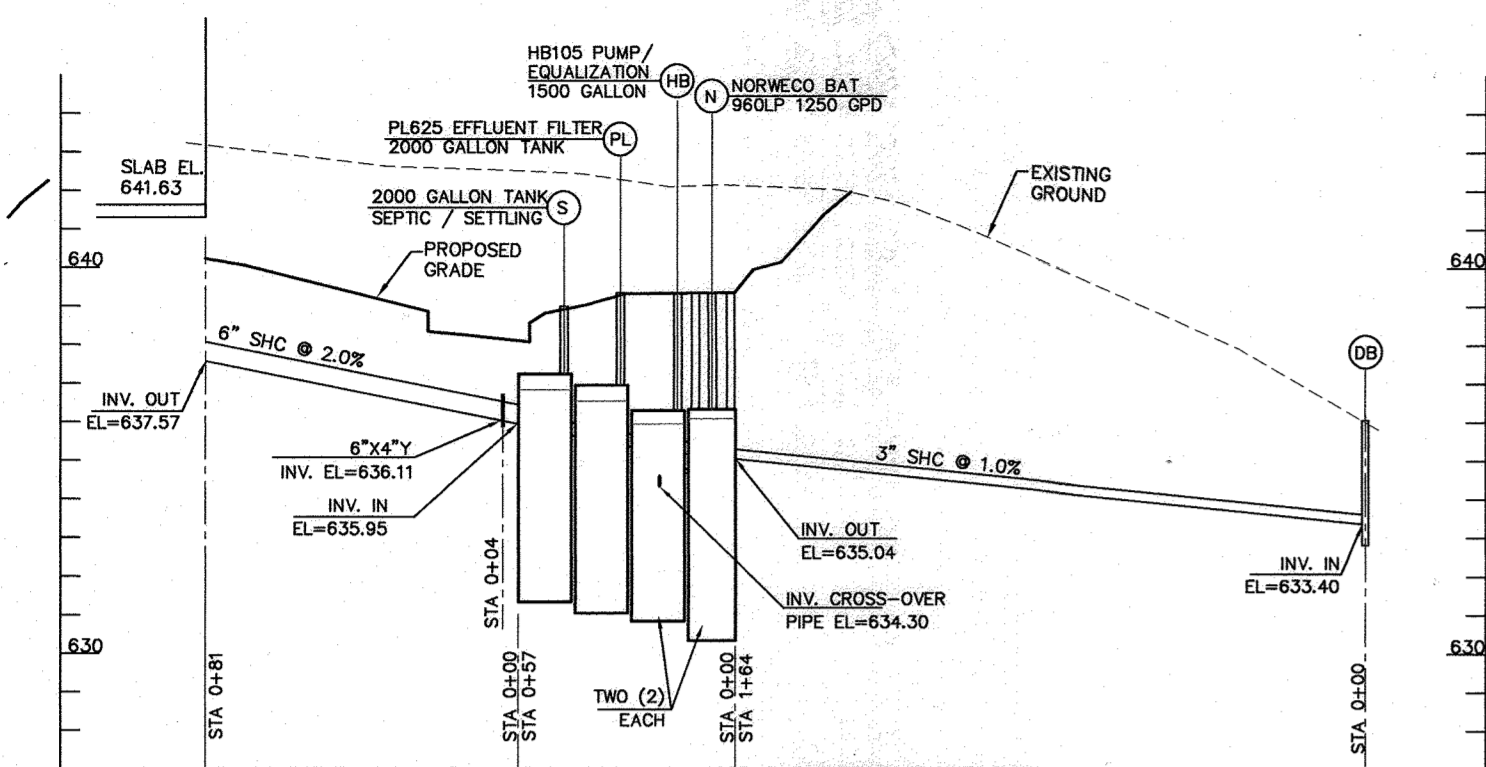
DESCRIPTION	ELEVATION
FINISHED FLOOR ELEVATION	641.63
INVERT OUT OF THE BUILDING (6" SHC)	637.57
INVERT OUT OF THE BUILDING (4" SHC)	637.82
FIN. GRADE AT GREASE TRAP (PAVED)	638.00
TOP OF GREASE TRAP	637.65
INVERT INTO GREASE TRAP	636.32
INVERT INLET SANITARY TEE	635.52
INVERT OUTLET SANITARY TEE	635.00
GREASE TRAP DRAIN LEVEL	636.07
INVERT OUT OF GREASE TRAP	636.07
INVERT AT 4" x 8" Y CONNECTION	635.11
FIN. GRADE AT SETTLING TANK	638.00
TOP OF SETTLING TANK	637.45
INVERT INTO SETTLING TANK	635.95
INVERT OUT OF SETTLING TANK	635.70
FIN. GRADE AT FILTER TANK	638.30
TOP OF FILTER TANK	637.00
INVERT INTO FILTER TANK	635.66
INVERT OUT OF FILTER TANK/FILTER	635.41
FIN. GRADE AT PUMP-EQUALIZATION	639.50
TOP OF PUMP-EQUALIZATION (P.TANK)	636.20
INVERT INTO PUMP-EQUALIZATION	635.37
INVERT OUT OF PUMP-EQUALIZATION	634.70
INVERT OUT - LOW ELEVATION	635.12
HIGH WATER / GRAVITY OPERATION	635.12
CROSS-OVER PIPE BETWEEN P.TANKS	634.30
PUMP ON	634.25
PUMP OFF - LOW ELEVATION	632.78
FIN. GRADE AT TREATMENT TANK	639.30
TOP OF TREATMENT TANK	636.37
INVERT INTO TREATMENT (PUMP)	634.53
INVERT OUT OF TREATMENT	635.04
FIN. GRADE AT DISTRIBUTION BOX	636.00
INVERT INTO DISTRIBUTION BOX	633.40

**SEWAGE DISPOSAL SYSTEM:**

DRIVE THRU DUNKIN DONUTS  
 BAT SYSTEM: NORWECO 960LP - 1250 GPD  
 50 GALLONS PER SEAT PER DAY  
 18 SEATS PROPOSED  
 50 x 18 = 900 GPD  
 PERC RATE = 6-15 MIN./INCH  
 APPLICATION RATE: 0.8 GPD/SQ.FT.  
 900 ÷ 0.8 = 1125 SQ.FT.  
 1125 ÷ 3' = 375 LF  
 PRIMARY SYSTEM TRENCH  
 USE 18" STONE BELOW PIPE  
 375 x 0.71 = 267 LF  
 USE 3 TRENCHES @ 89 LF EA.  
 SECONDARY AND TERTIARY SYSTEM  
 USE 42" STONE BELOW PIPE  
 375 x 0.45 = 169 LF  
 USE 3 TRENCHES @ 57 LF EA.

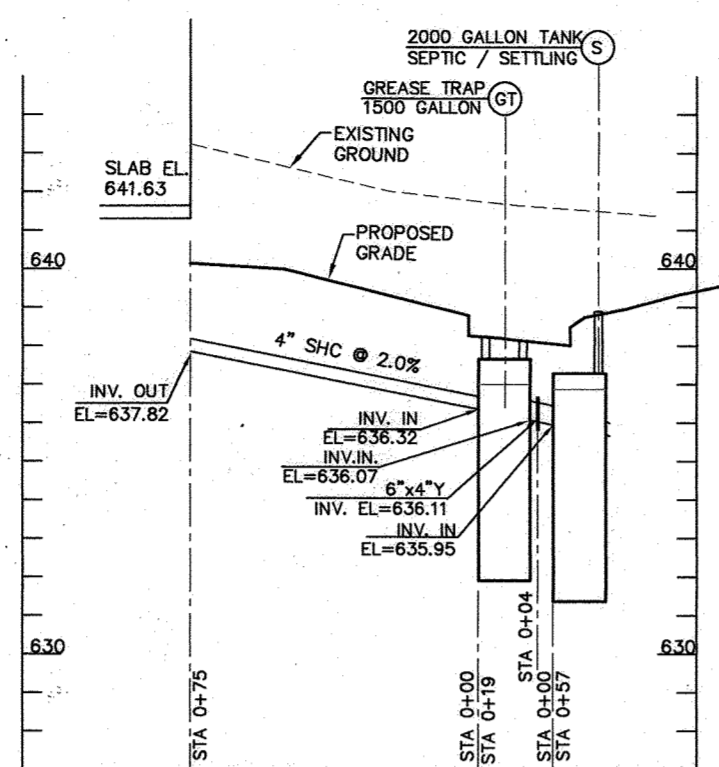
A MINIMUM OF 10' BETWEEN TRENCHES UTILIZING SIDEWALL REDUCTION CREDIT.

MINIMUM TANK CAPACITY = 2,000 GALLONS  
 PUMP: NORWECO HB105 20 GPM TIMED DOSING PUMP



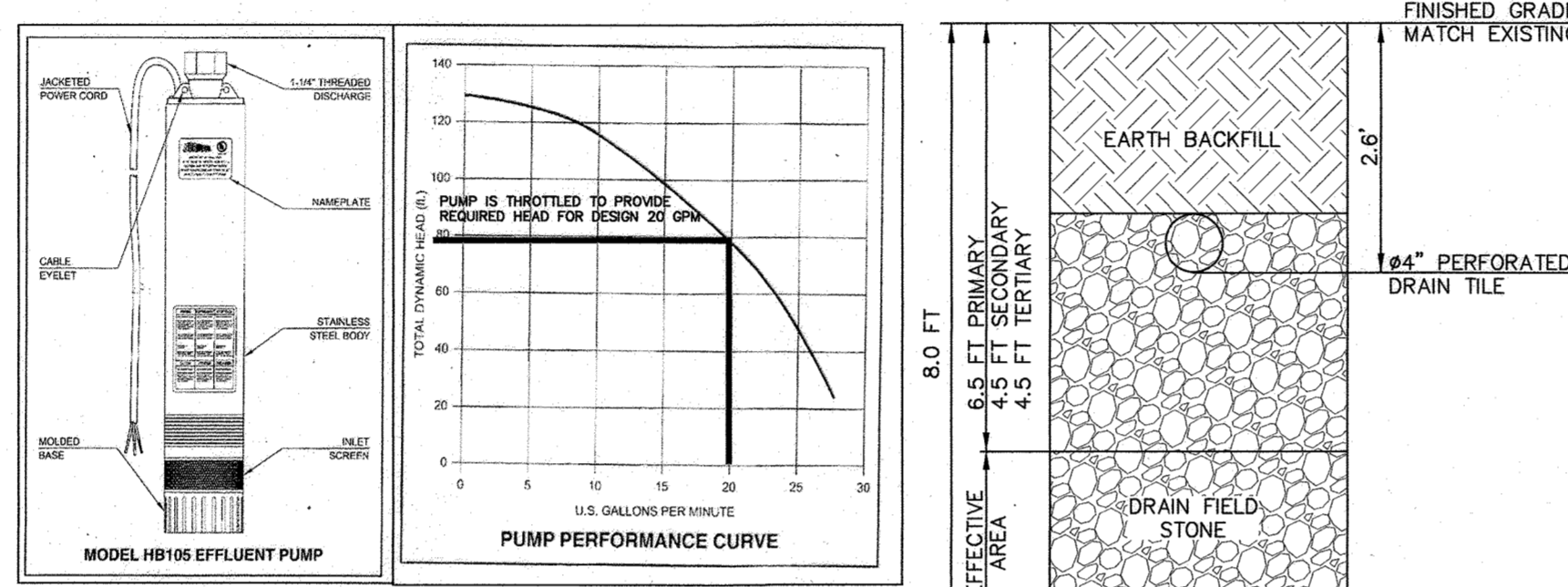
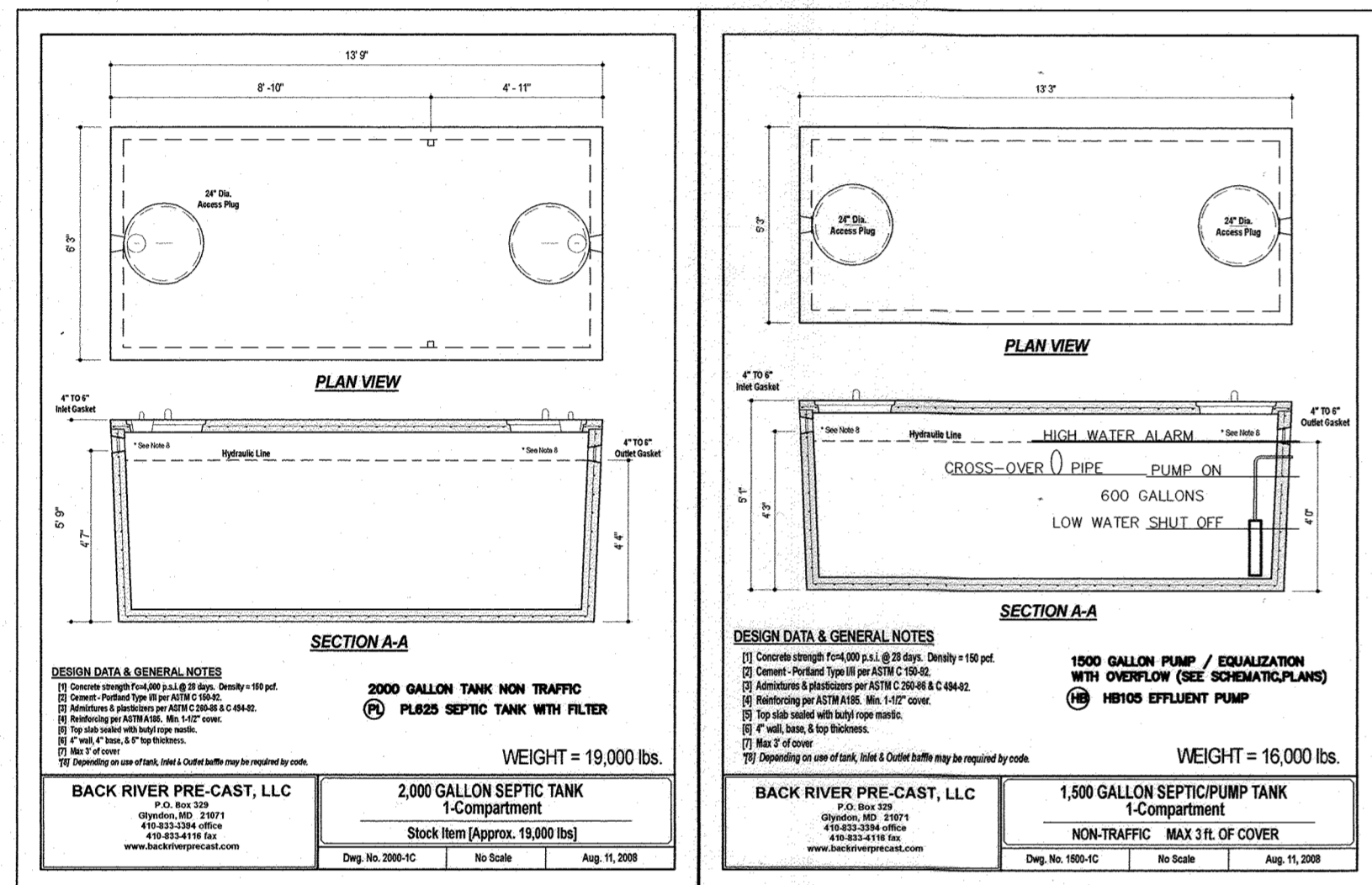
**PROFILE - PRIVATE SEWER**

SCALE: 1"=50' HORIZONTAL 1"=5' VERTICAL



**PROFILE - PRIVATE SEWER**

SCALE: 1"=50' HORIZONTAL 1"=5' VERTICAL



**TRENCH DETAIL**

NOT TO SCALE

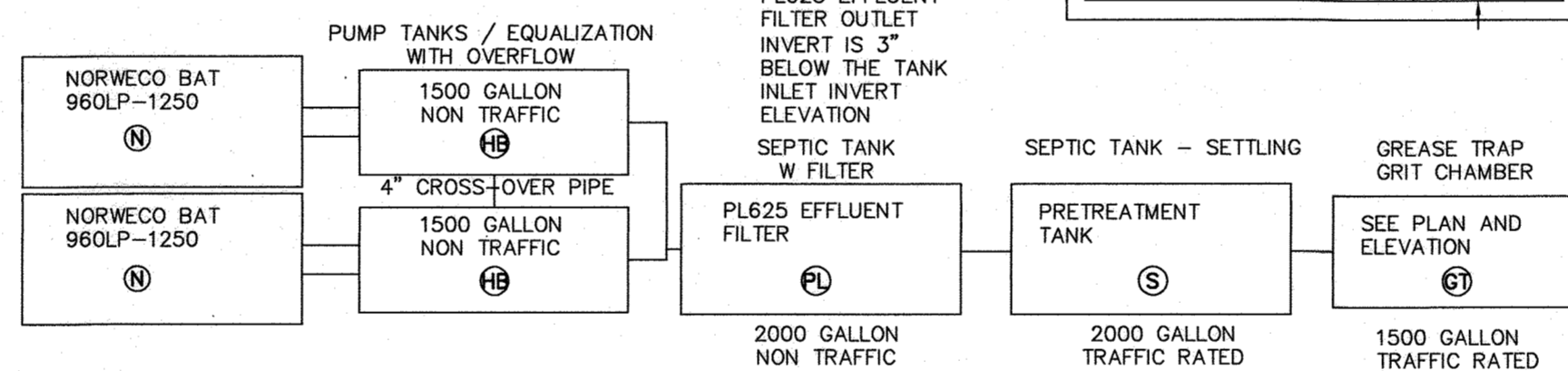
**SYSTEM NOTES:**

THIS SYSTEM INCLUDES THE FOLLOWING ELEMENTS:

- 1500 GALLON GREASE TRAP (SEPARATE LINE) (GT)
- 2000 GALLON SETTLING TANK (S)
- 2000 GALLON FILTER TANK (FL)
- (2) 1500 GALLON PUMP AND EQUALIZATION TANK (HB)
- (2) 1250 GPD TREATMENT TANK (NORWECO) (N)

AN OVERFLOW IS PROVIDED FROM THE PUMP EQUALIZATION TANK TO THE TREATMENT TANK. THE PURPOSE OF THIS OVERFLOW IS TO ALLOW THE SYSTEM TO OPERATE SOLELY BY GRAVITY IF THE PUMP FAILS. GRAVITY OPERATION TRIGGERS A HIGH WATER ALARM.

EACH PUMP IS DESIGNED TO PUMP 8.5 GALLON DOSES AT 20 GPM EVERY 15 MINUTES FOR 16 HOURS.

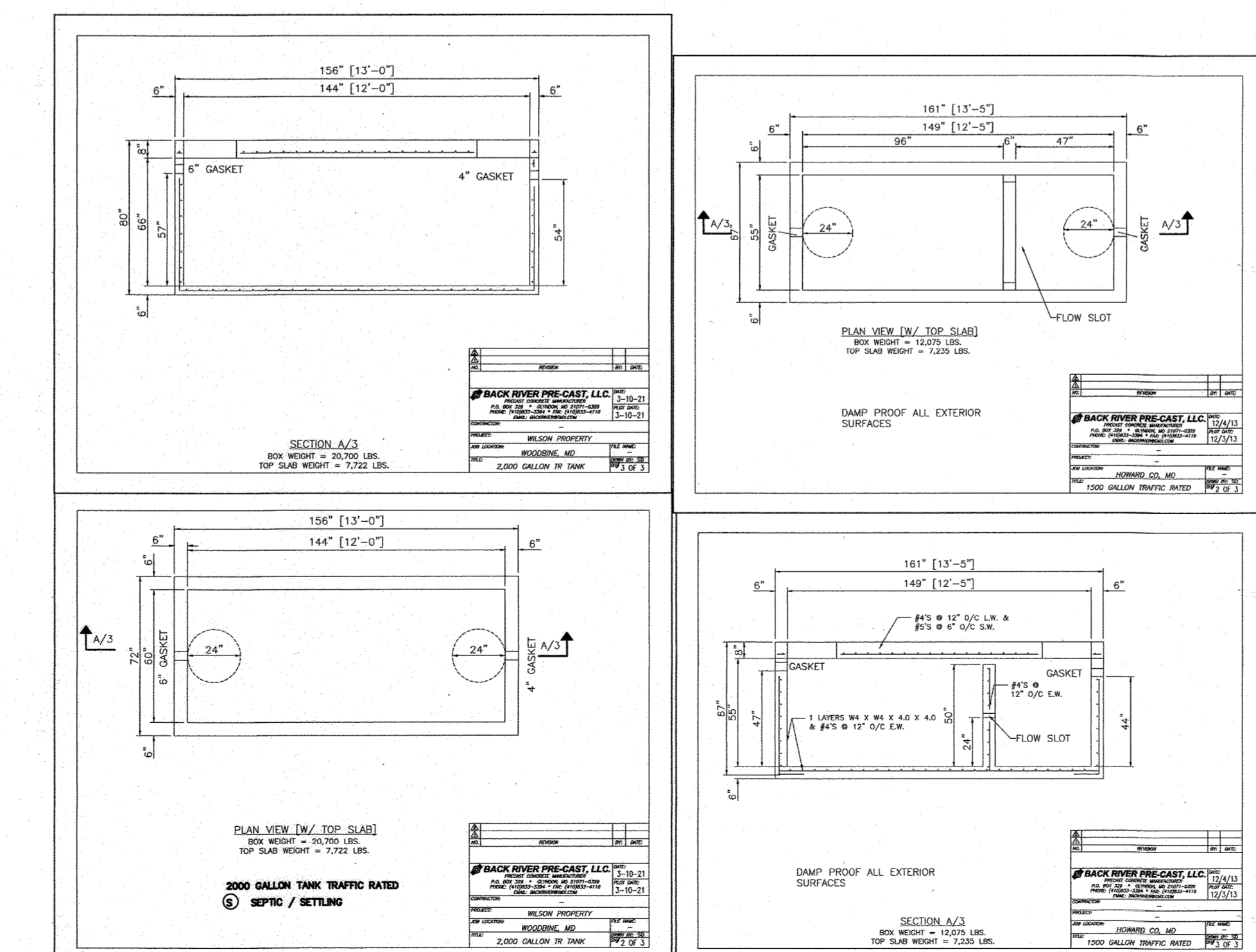
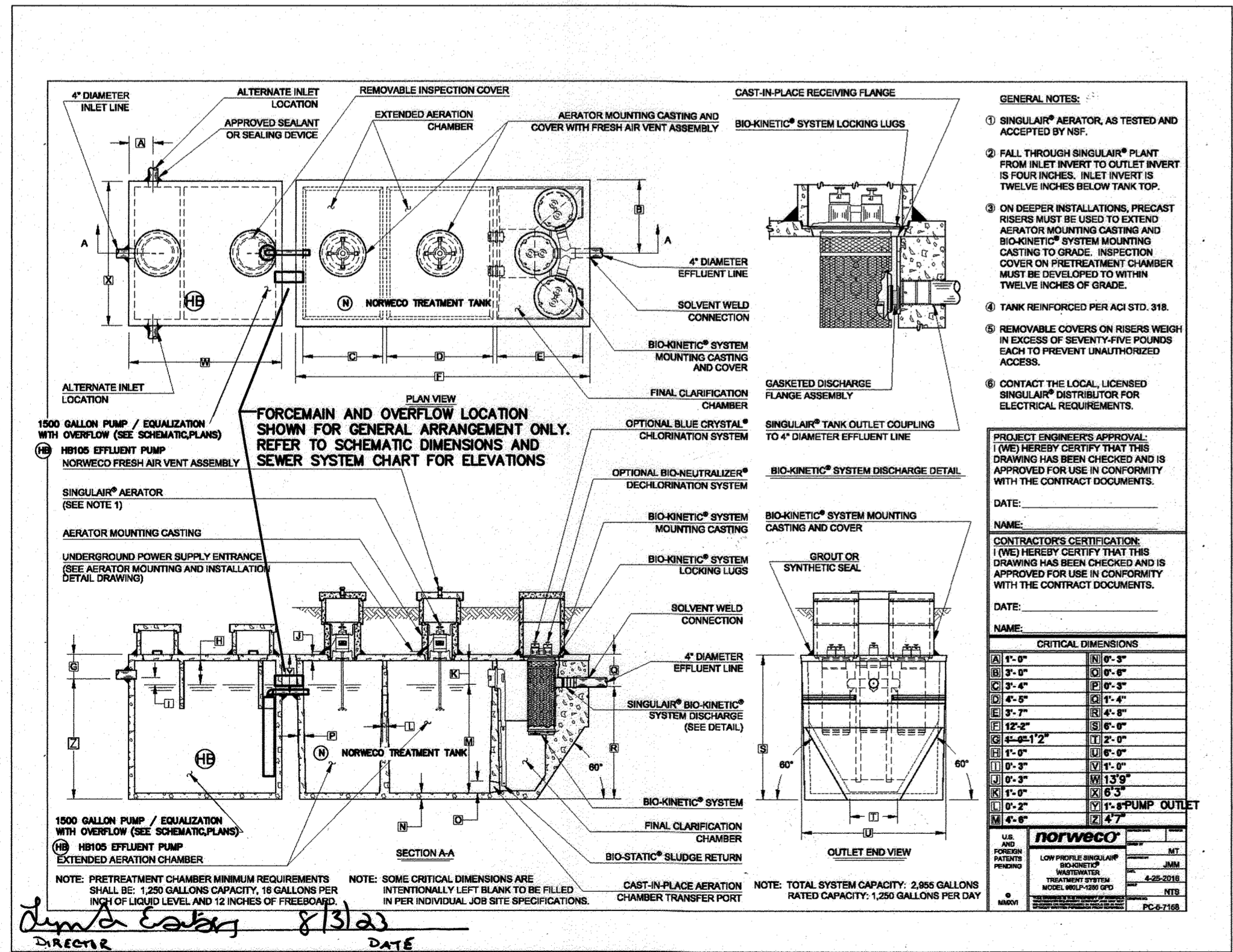
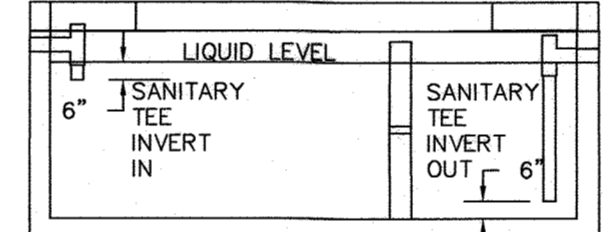


**TREATMENT TRAIN SCHEMATIC NTS**

**SEPTIC TRENCH ELEVATIONS**

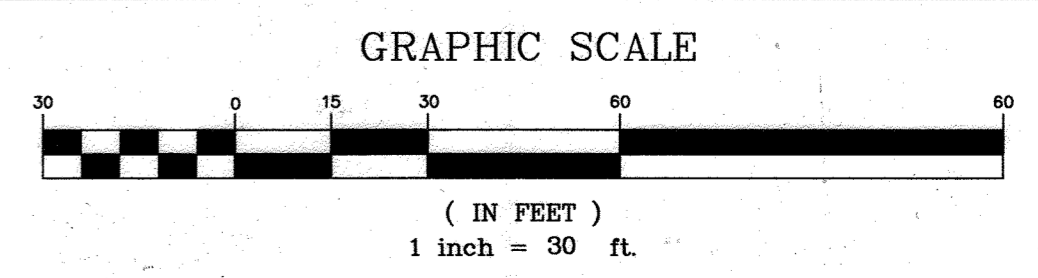
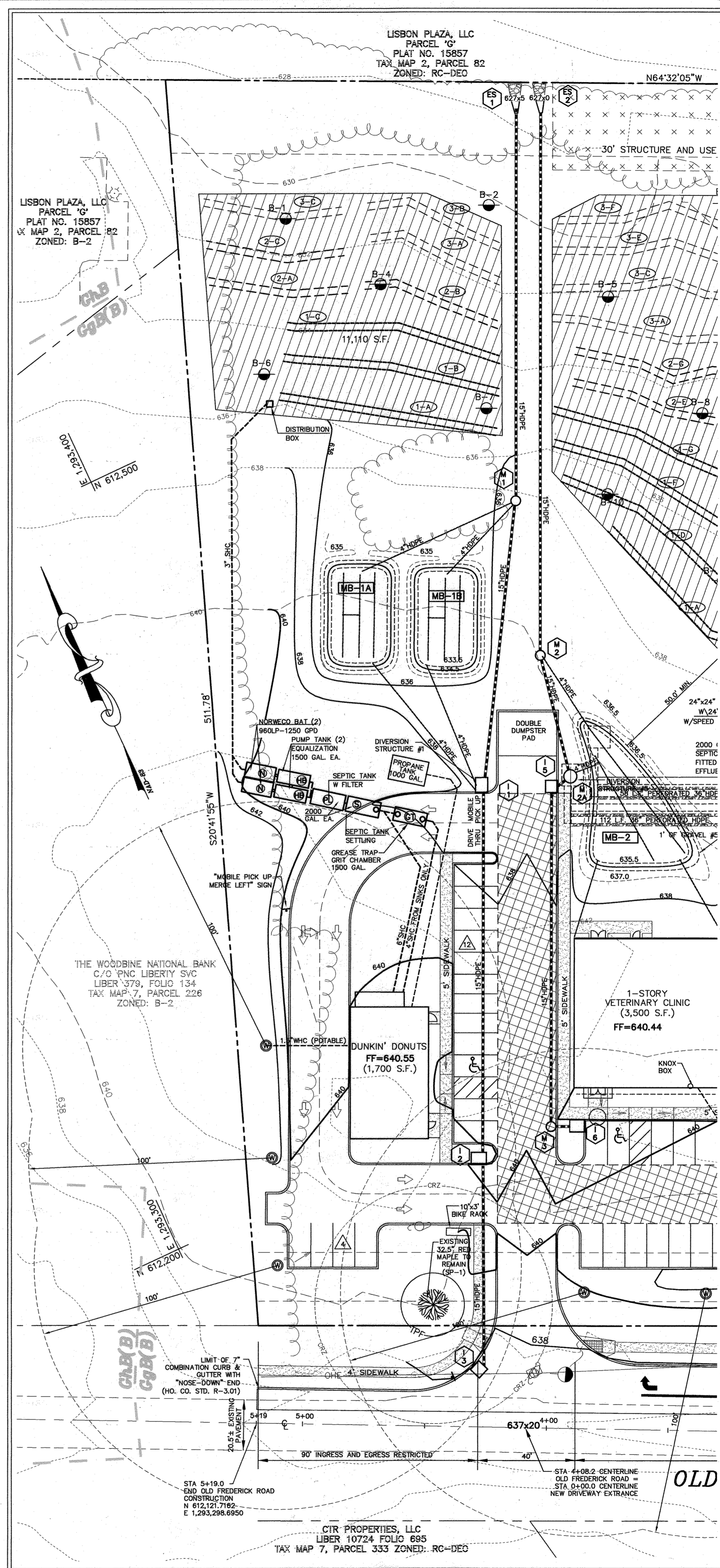
TRENCH	EX. GROUND ELEVATION	INVERT ELEVATION	BOTTOM OF TRENCH EL.
PRIMARY A	635.60	633.30	627.60
PRIMARY B	634.75	632.75	626.75
PRIMARY C	634.00	632.00	626.00
SECONDARY A	633.00	631.00	625.00
SECONDARY B	633.00	631.00	625.00
SECONDARY C	632.00	630.00	624.00
TERTIARY A	631.80	629.80	623.80
TERTIARY B	630.80	628.80	622.80
TERTIARY C	630.80	628.80	622.80

**GREASE TRAP ELEVATIONS**



**TRAFFIC RATED 2000 GALLON TANK**

**GREASE TRAP**



( IN FEET )  
1 inch = 30 ft.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
 COUNTY HEALTH OFFICER  
 DATE: 7/11/23

**NORWECO 960LP 1250 GPD**

APPROVED DEPARTMENT OF PLANNING AND ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 7/27/23

DATE: 8/1/23  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 MICHAEL KRETSCH  
 DATE: 06/21/2023

date	OCT. 2022
project	22-020
illustration	MM
scale	1"=30'
approval	SA

no.		description	revisions
date			

**WILSON VILLAGE LOTS: 1-3**  
 15850 OLD FREDERICK ROAD, WOODBINE, MD  
 TAX MAP 7, GRID 6 PARCEL 478  
 HOWARD COUNTY, MARYLAND  
 4th ELECTION DISTRICT  
**ON-SITE SEPTIC DESIGN PLAN (DRIVE THRU)**

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 7550-B Grace Drive, Columbia, Maryland 21044  
 (410) 997-0296 Fax: (410) 997-0298 Fax.

**SOILS TABLE**

SYMBOL	RATING	DESCRIPTION	K FACTOR	MAP NO.	COMMENTS
GgB	B	GLENELG LOAM, 3 TO 8% SLOPE	.37	2	
GgC	B	GLENELG LOAM, 8 TO 15% SLOPE	.43	2	

**SEWAGE DISPOSAL SYSTEM:**

BAT SYSTEM: 2X NORWECO TNTLP 1000 GPD

VETERINARY CLINIC  
 RUNS: 2x25/RUN = 50 GPD  
 DOG CAGES: 16x25/CAGE = 400 GPD  
 CAT CAGES: 7x25/CAGE = 175 GPD  
 X-RAY ROOM: 1x150/ROOM = 150 GPD  
 DENTAL ROOM: 1x150/ROOM = 150 GPD  
 3 TREATMENT STATIONS: 250 GPD  
 4 EXAMINATION ROOMS: 250 GPD  
 1 OPERATING ROOM: 250 GPD  
 TOTAL: 1675 + 180 = 1,855 GPD

OFFICE BUILDING  
 2,000 S.F. OFFICE SPACE  
 0.09 GALLONS PER S.F. PER DAY  
 2,000 x 0.09 = 180 GPD

TOTAL: 1675 + 180 = 1,855 GPD

**PRIMARY AND SECONDARY SYSTEM**

PERC RATE: 16-30 MIN./INCH  
 APPLICATION RATES: 0.6 GPD/S.F.  
 1855 ÷ 0.6 = 3,092 SQ.FT.  
 3,092 ÷ 3' = 1,031 L.F.  
 USE 30" STONE BELOW PIPE  
 1.031 x 0.55 = 567 LF  
 PRIMARY SYSTEM:  
 USE 7 TRENCHES @ 81 LF EACH  
 SECONDARY SYSTEM:  
 USE 8 TRENCHES @ 71 LF EACH

**TERTIARY SYSTEM 0.8 GPD/SQ.FT.**

PERC RATE: 6-15 MIN./INCH  
 APPLICATION RATE: 0.8 GPD/S.F.  
 1855 ÷ 0.8 = 2319  
 2319 ÷ 3' = 773  
 USE 30" STONE BELOW PIPE  
 773 x 0.55 = 425 LF  
 USE 6 TRENCHES @ 71 LF EACH

TRENCH WIDTH: 3.0', A MINIMUM OF 10' BETWEEN  
 TRENCHES UTILIZING SIDEWALL REDUCTION CREDIT.

MINIMUM TANK CAPACITY = 2,000 GALLONS PER TANK

**SEPTIC TRENCH ELEVATIONS**

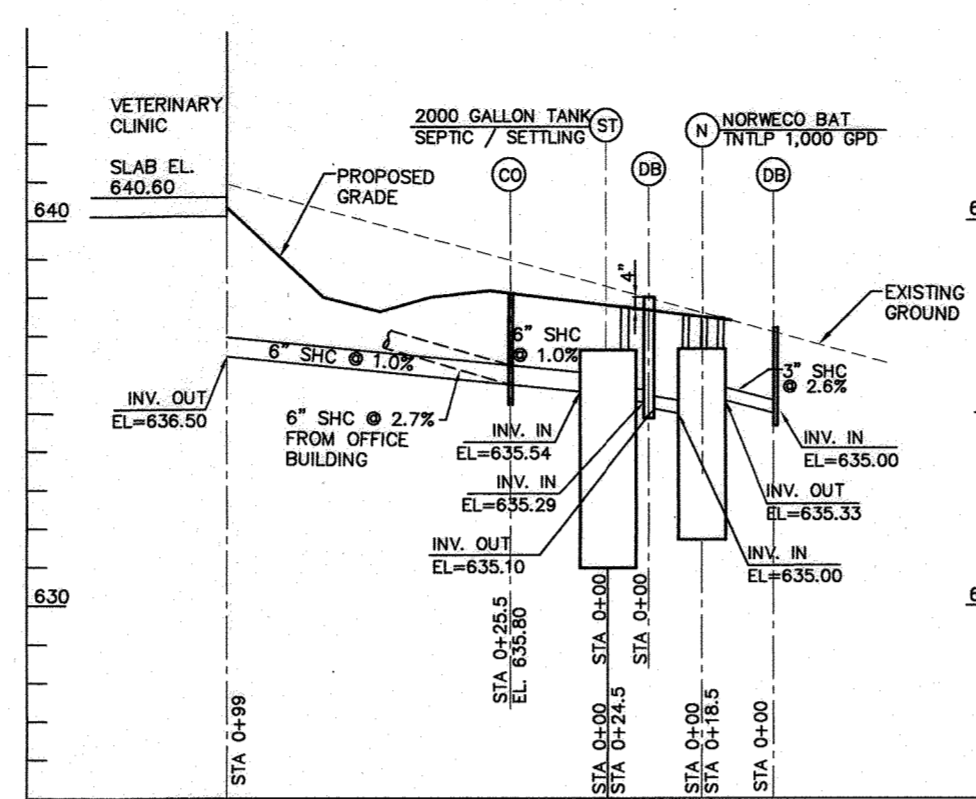
TRENCH	EX. GROUND ELEVATION	INVERT ELEVATION	BOTTOM OF TRENCH EL.
PRIMARY A	637.23	634.25	629.25
PRIMARY B	636.82	633.82	628.82
PRIMARY C	636.40	633.40	628.40
PRIMARY D	636.40	633.40	628.40
PRIMARY E	636.00	633.00	628.00
PRIMARY F	635.75	632.75	627.75
PRIMARY G	635.16	632.16	627.16
SECONDARY A	635.80	632.80	627.80
SECONDARY B	635.30	632.30	627.30
SECONDARY C	634.93	631.94	626.93
SECONDARY D	634.55	631.55	626.55
SECONDARY E	634.50	631.50	626.50
SECONDARY F	634.10	631.10	626.10
SECONDARY G	633.82	630.82	625.82
SECONDARY H	633.53	630.53	625.53
TERTIARY A	633.00	630.00	625.00
TERTIARY B	632.33	629.33	624.33
TERTIARY C	631.90	628.90	623.90
TERTIARY D	630.80	627.80	622.80
TERTIARY E	630.50	627.50	622.50
TERTIARY F	629.85	626.85	621.85

**SEWER SYSTEM CHART**

DESCRIPTION	ELEVATION
FINISHED FLOOR ELEVATION	640.60
INVERT OUT OF THE BUILDING	636.40
FIN. GRADE PRIMARY TANK	637.52
TOP OF PRIMARY TANK	636.20
INVERT INTO PRIMARY TANK	635.54
INVERT OUT OF PRIMARY TANK	635.29
FIN. GRADE AT TREATMENT TANK	637.60
TOP OF TREATMENT TANK	636.67
INVERT INTO TREATMENT	635.00
INVERT OUT OF TREATMENT	635.33
INVERT INTO DISTRIBUTION BOX	635.00

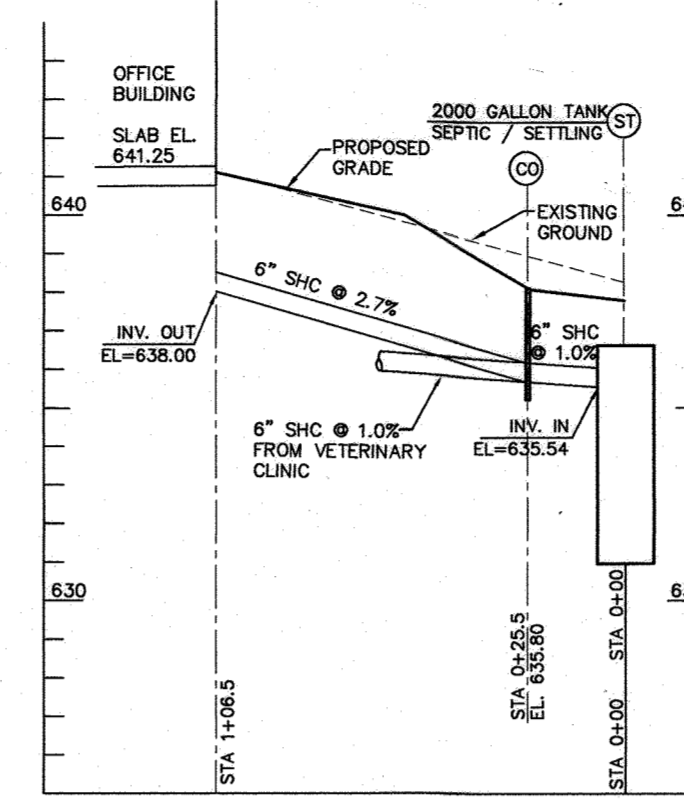
**SEPTIC TRENCH SIZING**

SYSTEM	APPLICATION RATE (GPD / SF)	MAXIMUM FLOW RATE (GPD)	AREA OF REQUIRED TRENCH (SF)	TRENCH WIDTH (FT)	LENGTH OF REQUIRED TRENCH (LF)	EFFECTIVE DEPTH (FT)	TRENCH BOTTOM DEPTH (FT)	TRENCH REDUCTION FACTOR**	ADJUSTED LENGTH OF REQUIRED TRENCH (LF)	MINIMUM TRENCH SPACING (FT)	NUMBER OF TRENCHES	PROVIDED TRENCH LENGTH (FT)
PRIMARY	0.6	1855	3092	3	1,031	5.5	8.0	0.55	567	10.0	7	81
SECONDARY	0.6	1855	3092	3	1,031	5.5	8.0	0.55	567	10.0	8	71
TERTIARY	0.8	1855	2319	3	773	5.5	8.0	0.55	425	10.0	6	71



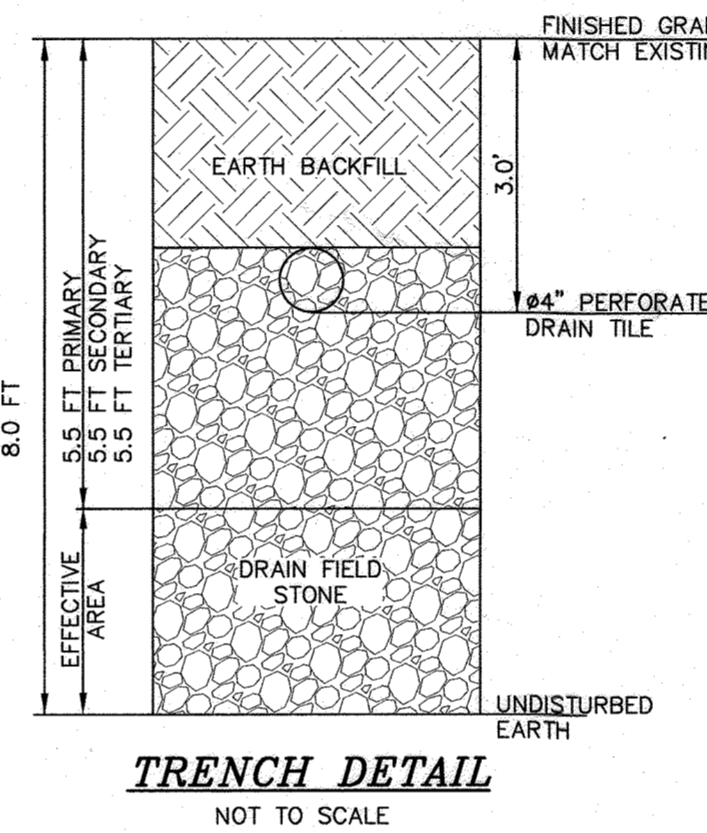
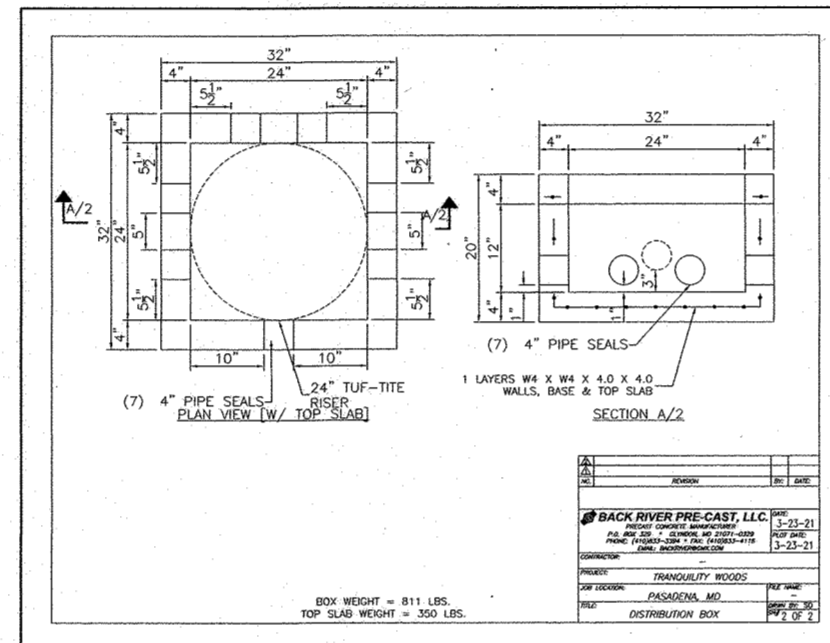
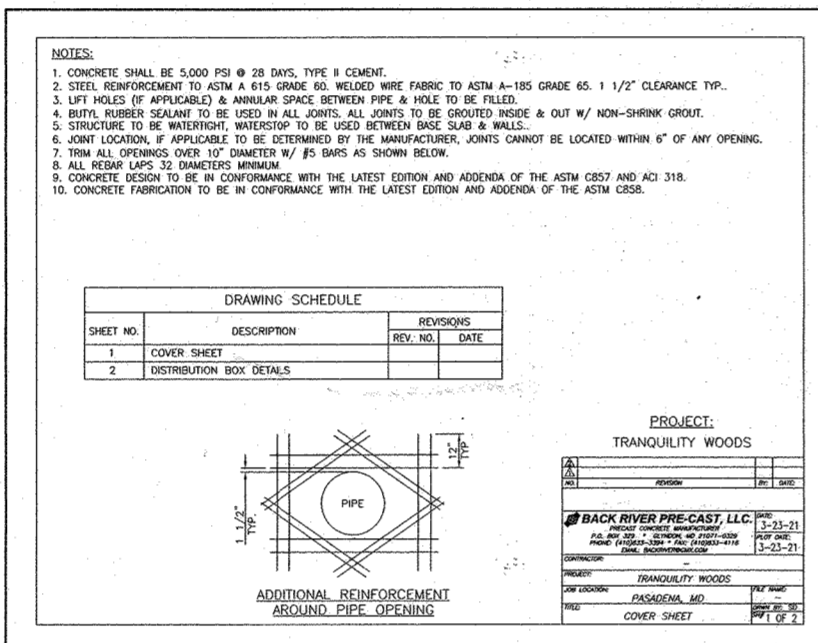
**PROFILE - PRIVATE SEWER**

SCALE: 1"=50' HOR  
 1"=5' VER



**PROFILE - PRIVATE SEWER**

SCALE: 1"=50' HOR  
 1"=5' VER

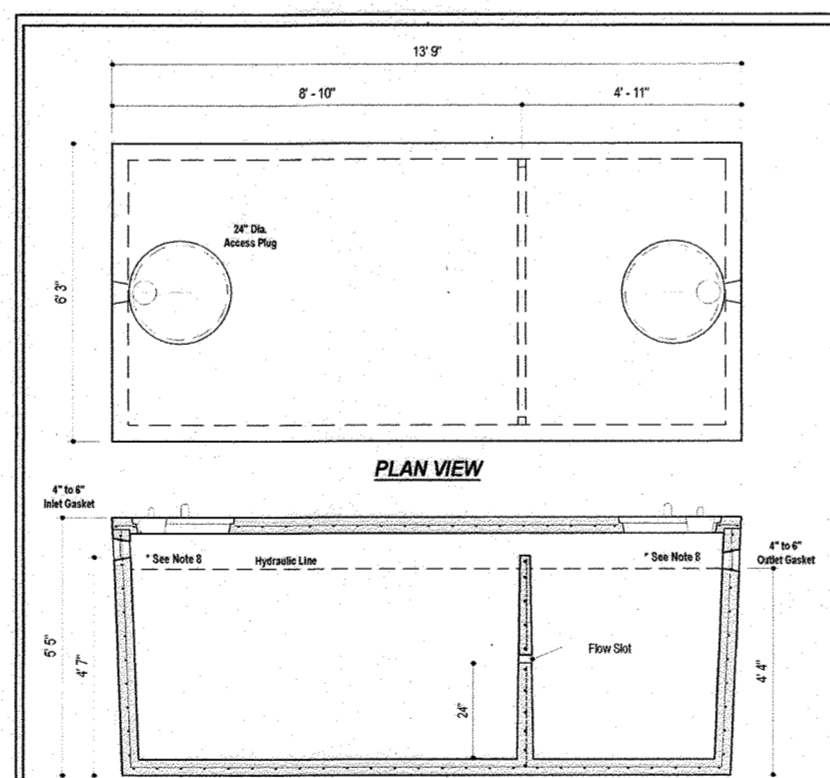
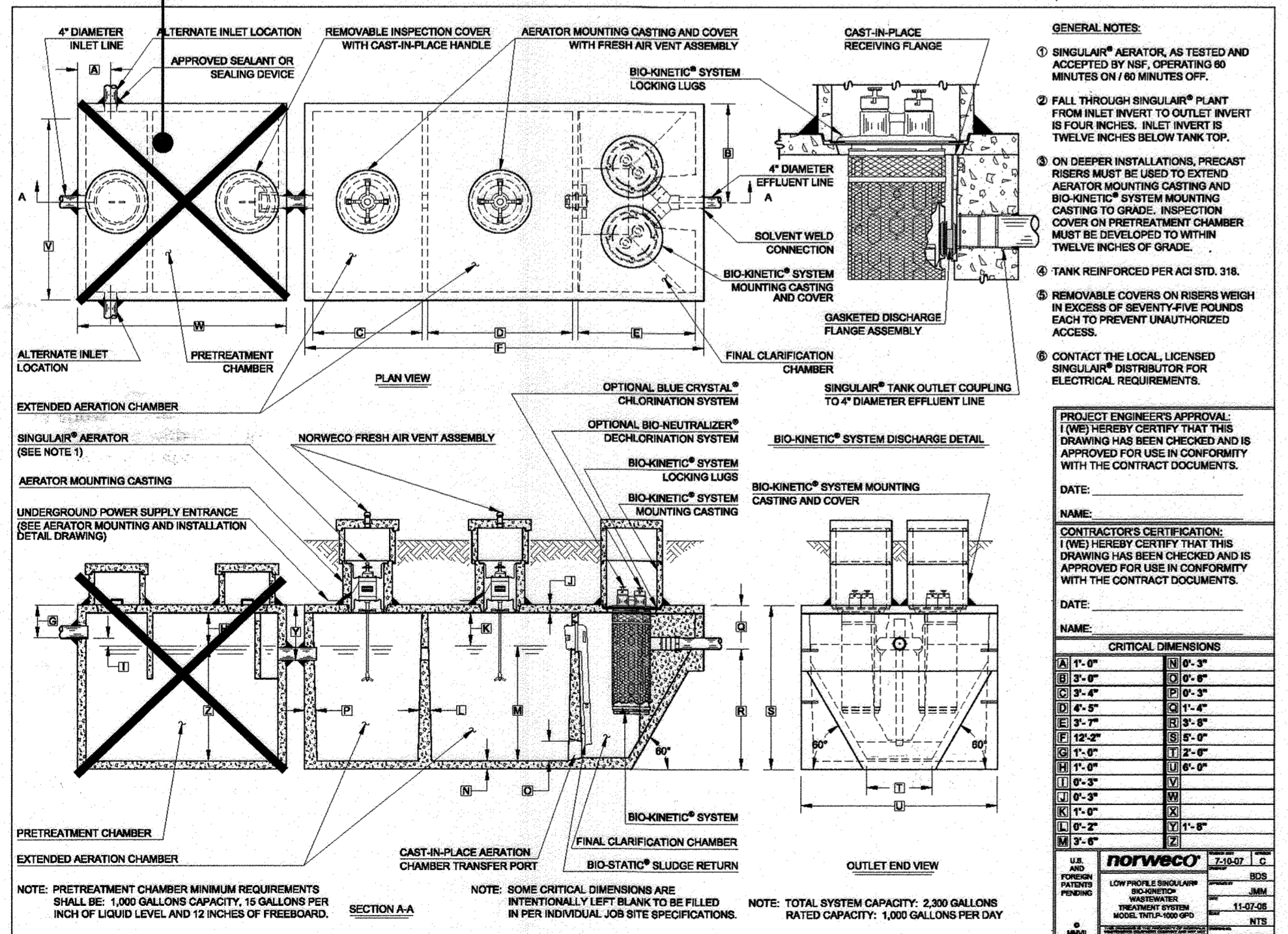


**TRENCH DETAIL**

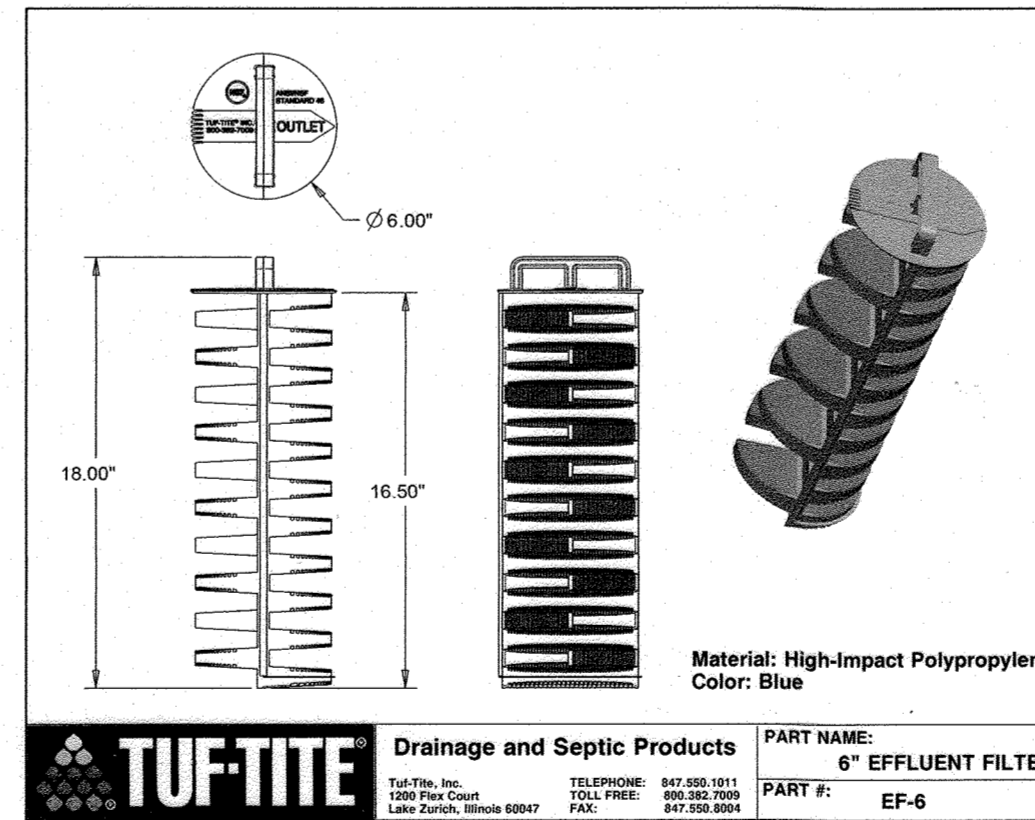
NOT TO SCALE

USE 2,000 GALLON TANK  
 SEE DETAIL THIS SHEET

24" x 24" D-BOX DETAIL  
 FITTED W/SPEED LEVERS

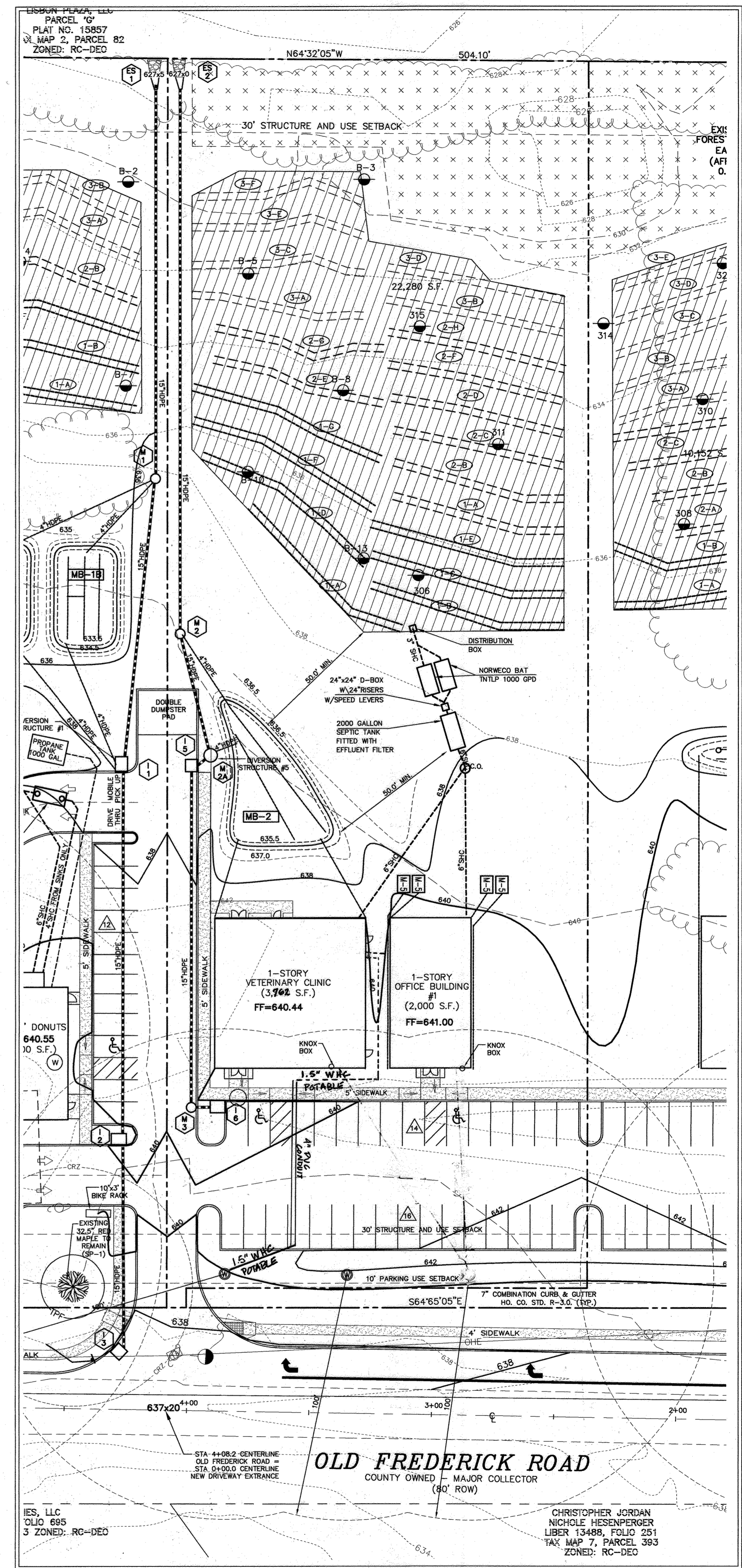


**PRE-TREATMENT CHAMBER  
 2000 GALLON TANK**



**FILTER TO BE FITTED  
 IN PRETREATMENT CHAMBER**

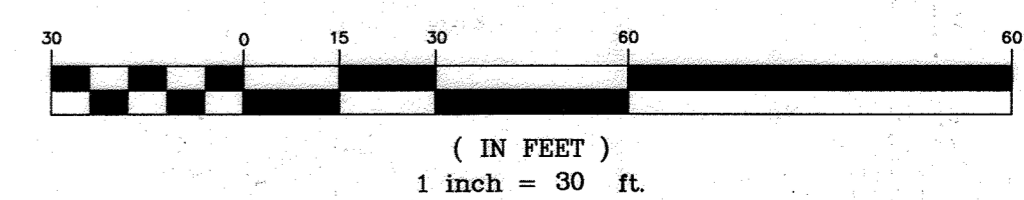
NOTES:  
 HEALTH DEPARTMENT WILL REVIEW THE FLOOR PLAN OF THE PROPOSED BUILDING DURING BUILDING PERMIT REVIEW. IF THE FLOOR PLAN INDICATES USE DIFFERENT FROM WHAT IS PROPOSED ON THIS PLAN, A REVISION OF THIS PLAN, AND SEWAGE DISPOSAL SYSTEM MAY BE REQUIRED.  
 ENGINEER MUST SUBMIT A SITE SPECIFIC BAT O&M MANUAL TO THE HEALTH DEPARTMENT PRIOR TO BUILDING PERMIT APPROVAL.



**OLD FREDERICK ROAD**

COUNTY OWNED - MAJOR COLLECTOR (80' ROW)

**GRAPHIC SCALE**



( IN FEET )  
 1 inch = 30 ft.

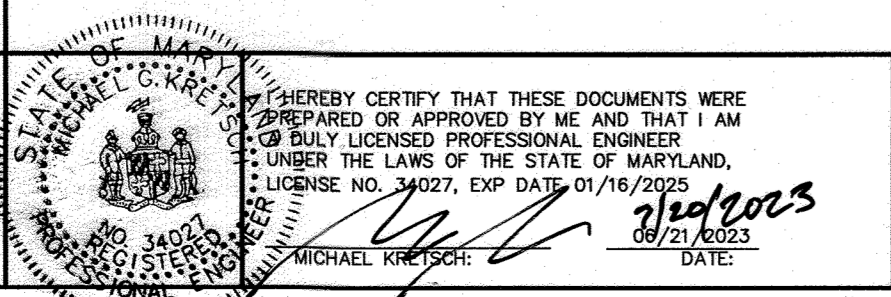
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
 DIRECTOR: [Signature] DATE: 8/1/23

APPROVED: COUNTY HEALTH OFFICER  
 HOWARD COUNTY HEALTH DEPARTMENT  
 [Signature] DATE: 7/1/23

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 [Signature] DATE: 7/27/23

CHIEF, DIVISION OF LAND DEVELOPMENT  
 [Signature] DATE: 8/1/23

**NORWECO TNTLP 1000 GPD**



**OWNER**

WOODBINE BRANTLY, LLC  
 8318 FORREST ST. SUITE 200  
 ELLICOTT CITY, MARYLAND 21043  
 (410)992-4600

project	date	approval
22-020	JUNE 2023	MMM
illustration	engineering	MMM
score	MMM	approval
1	9/20/23	SAA

REVISED  
 WILSON VILLAGE LOTS: 1-3  
 15850 OLD FRESERICK ROAD WOODBINE MD  
 TAX MAP 7 GRID 6 PARCEL 478  
 HOWARD COUNTY, MARYLAND  
 4th ELECTION DISTRICT  
 ON-SITE SEPTIC DESIGN

REVISED  
 WILSON VILLAGE LOTS: 1-3  
 15850 OLD FRESERICK ROAD WOODBINE MD  
 TAX MAP 7 GRID 6 PARCEL 478  
 HOWARD COUNTY, MARYLAND  
 4th ELECTION DISTRICT  
 ON-SITE SEPTIC DESIGN

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 7350-B Grace Drive, Columbia, Maryland 21044  
 (410) 997-0296 Ext. (410) 997-0299 Fax

**SOILS TABLE**

SYMBOL	RATING	DESCRIPTION	K FACTOR	MAP NO.	COMMENTS
GgB	B	GLENELG LOAM, 3 TO 8% SLOPE	.37	2	
GgC	B	GLENELG LOAM, 8 TO 15% SLOPE	.43	2	

**SEPTIC TRENCH SIZING**

SYSTEM	APPLICATION RATE (GPD / SF)	MAXIMUM FLOW RATE (GPD)	AREA OF REQUIRED TRENCH (SF)	TRENCH WIDTH (FT)	LENGTH OF REQUIRED TRENCH (LF)	EFFECTIVE DEPTH (FT)	TRENCH BOTTOM DEPTH (FT)	TRENCH REDUCTION FACTOR**	ADJUSTED LENGTH OF REQUIRED TRENCH (LF)	MINIMUM TRENCH SPACING (FT)	NUMBER OF TRENCHES	PROVIDED TRENCH LENGTH (FT)
PRIMARY	0.8	1000	1250	3	417.0	4.5	8.0	0.45	188	10.0	2	94
SECONDARY	0.8	1000	1250	3	417.0	4.5	8.0	0.45	188	10.0	3	63
TERTIARY	0.8	1000	1250	3	417.0	5.5	8.0	0.55	230	10.0	5	46

**SEWAGE DISPOSAL SYSTEM:**

OFFICE BUILDING #2  
 BAT SYSTEM: NORWECO TNTLP 1000 GPD  
 7,200 S.F. OFFICE SPACE  
 0.09 GALLONS PER S.F. PER DAY  
 7,200 x 0.09 = 648 GPD  
 ADDITIONAL CAPACITY: 352 GPD  
 DESIGN: 1,000 GPD

PERC RATE: 6-15 MIN./INCH  
 APPLICATION RATES: 0.8 GPD/S.F.  
 1,000 ÷ 0.8 = 1250 SQ.FT.  
 1250 ÷ 3' = 417 L.F.

PRIMARY SYSTEM  
 USE 42" STONE BELOW PIPE  
 417 x 0.45 = 188 L.F.  
 USE 2 TRENCHES @ 94 L.F. EA.

SECONDARY SYSTEM  
 USE 42" STONE BELOW PIPE  
 417 x 0.45 = 188 L.F.  
 USE 3 TRENCHES @ 63 L.F. EA.

TERTIARY SYSTEM  
 USE 30" STONE BELOW PIPE  
 417 x 0.55 = 230 L.F.  
 USE 5 TRENCHES @ 46 L.F. EA.

A MINIMUM OF 10' BETWEEN TRENCHES UTILIZING SIDEWALL REDUCTION CREDIT.

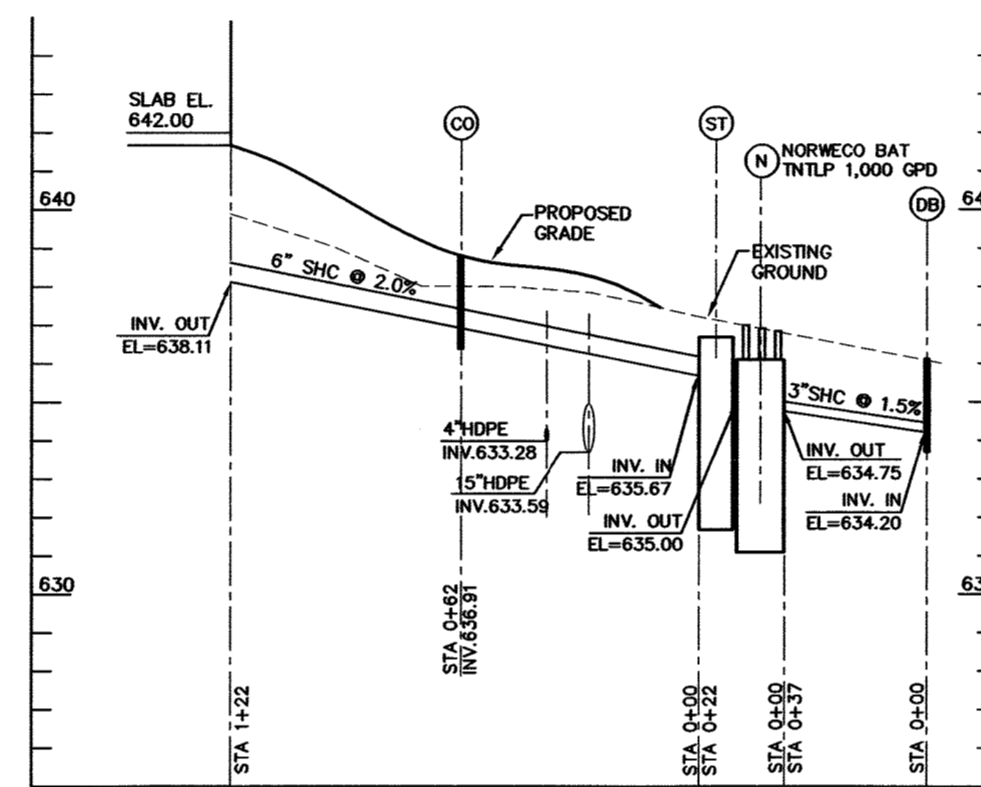
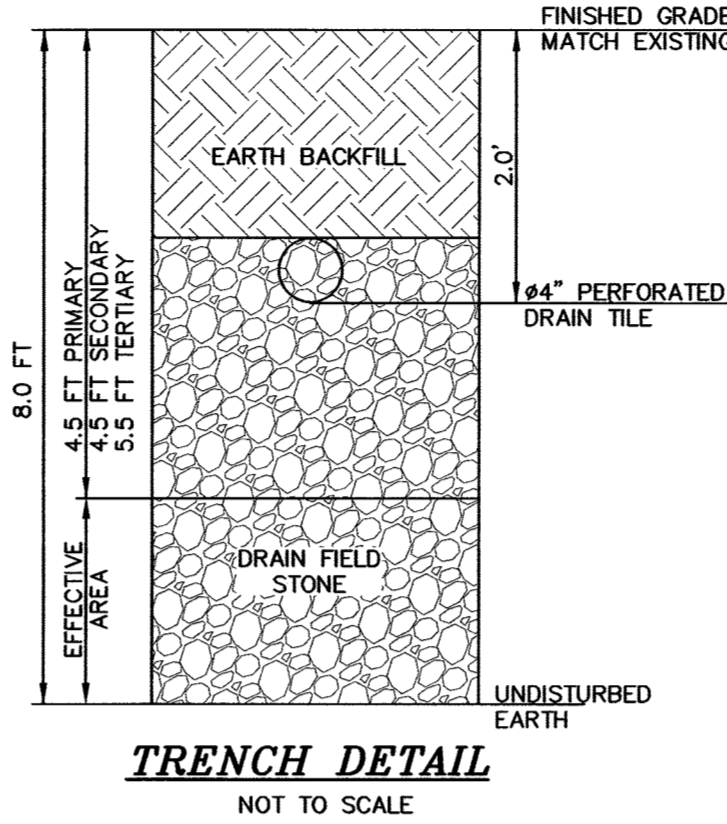
MINIMUM TANK CAPACITY = 1,000 GALLONS

**SEWER SYSTEM CHART**

DESCRIPTION	ELEVATION
FINISHED FLOOR ELEVATION	642.00
INVERT OUT OF THE BUILDING	638.11
FIN. GRADE PRIMARY TANK	637.00
TOP OF PRIMARY TANK	636.67
INVERT INTO PRIMARY TANK	635.67
INVERT OUT OF PRIMARY TANK	635.00
FIN. GRADE AT TREATMENT TANK	639.48
TOP OF TREATMENT TANK	636.08
INVERT INTO TREATMENT	635.00
INVERT OUT OF TREATMENT	634.75
FIN. GRADE AT DISTRIBUTION BOX	636.20
INVERT INTO DISTRIBUTION BOX	634.20

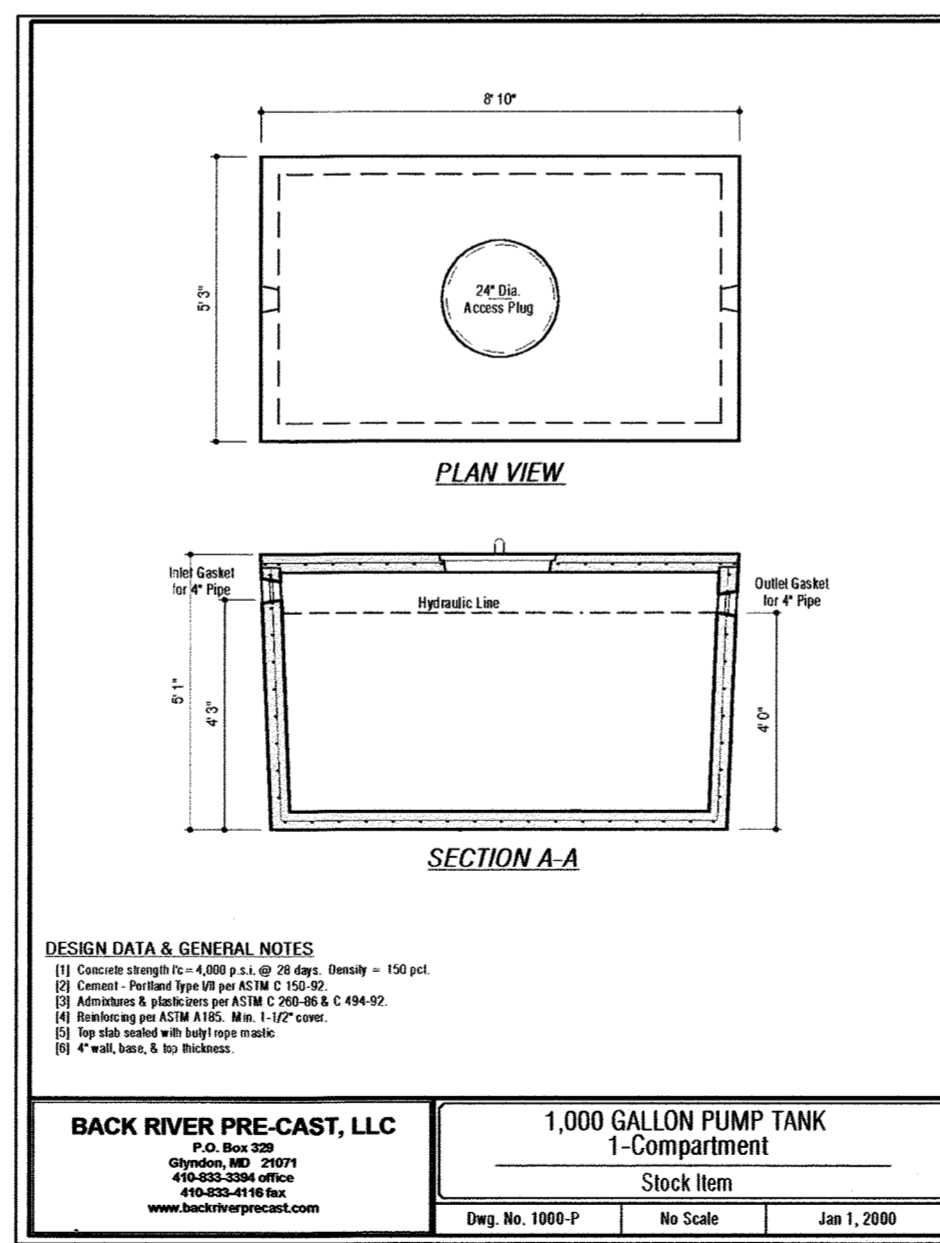
**SEPTIC TRENCH ELEVATIONS**

TRENCH	EX. GROUND ELEVATION	INVERT ELEVATION	BOTTOM OF TRENCH EL.
PRIMARY A	636.12	634.12	628.12
PRIMARY B	635.88	633.88	627.88
SECONDARY A	635.50	633.50	627.50
SECONDARY B	635.14	633.14	627.14
SECONDARY C	634.80	632.80	626.80
TERTIARY A	634.30	632.30	626.30
TERTIARY B	633.90	631.90	625.90
TERTIARY C	633.46	631.46	625.46
TERTIARY D	632.95	630.95	624.95
TERTIARY E	632.48	630.48	624.48

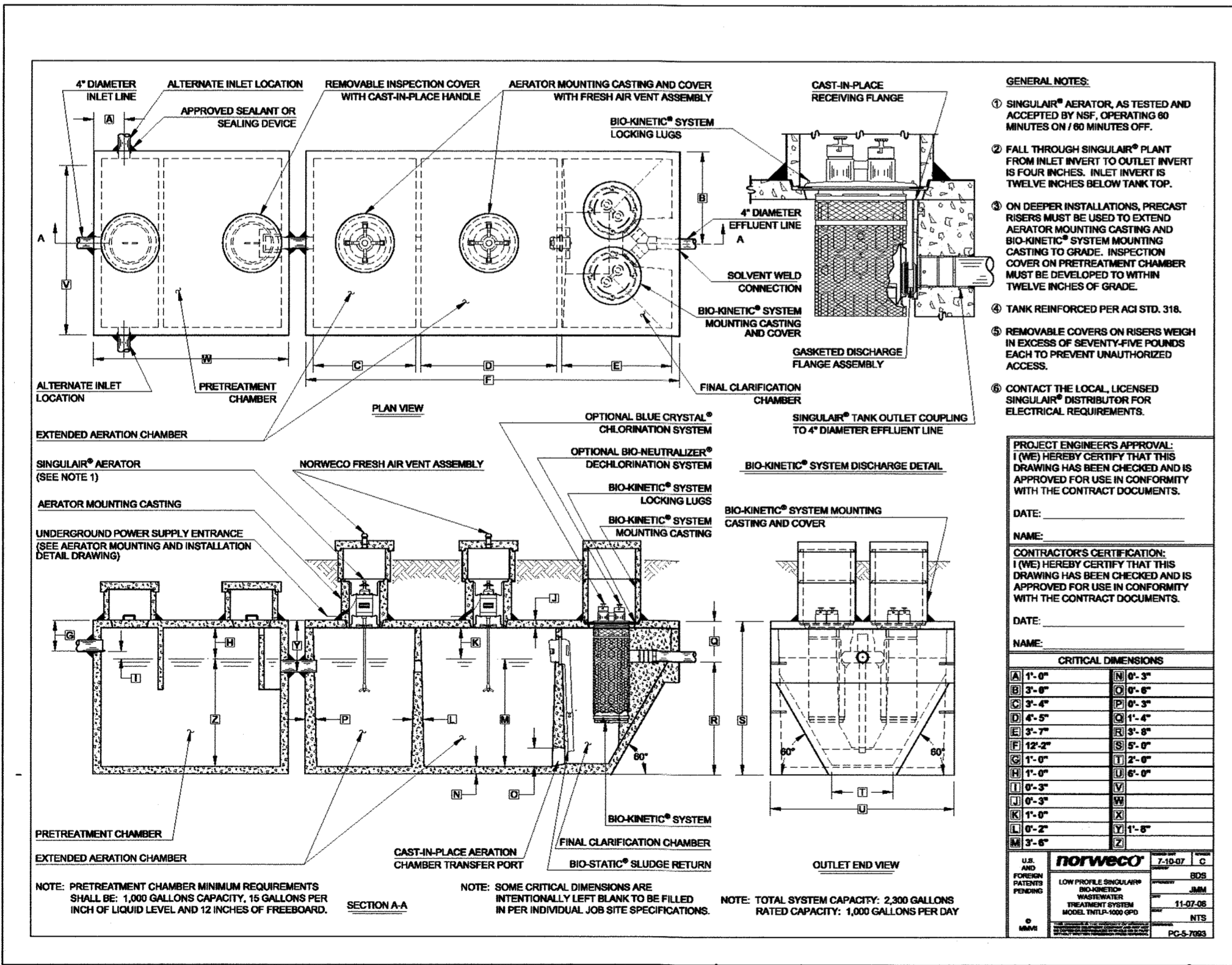


**PROFILE - PRIVATE SEWER**

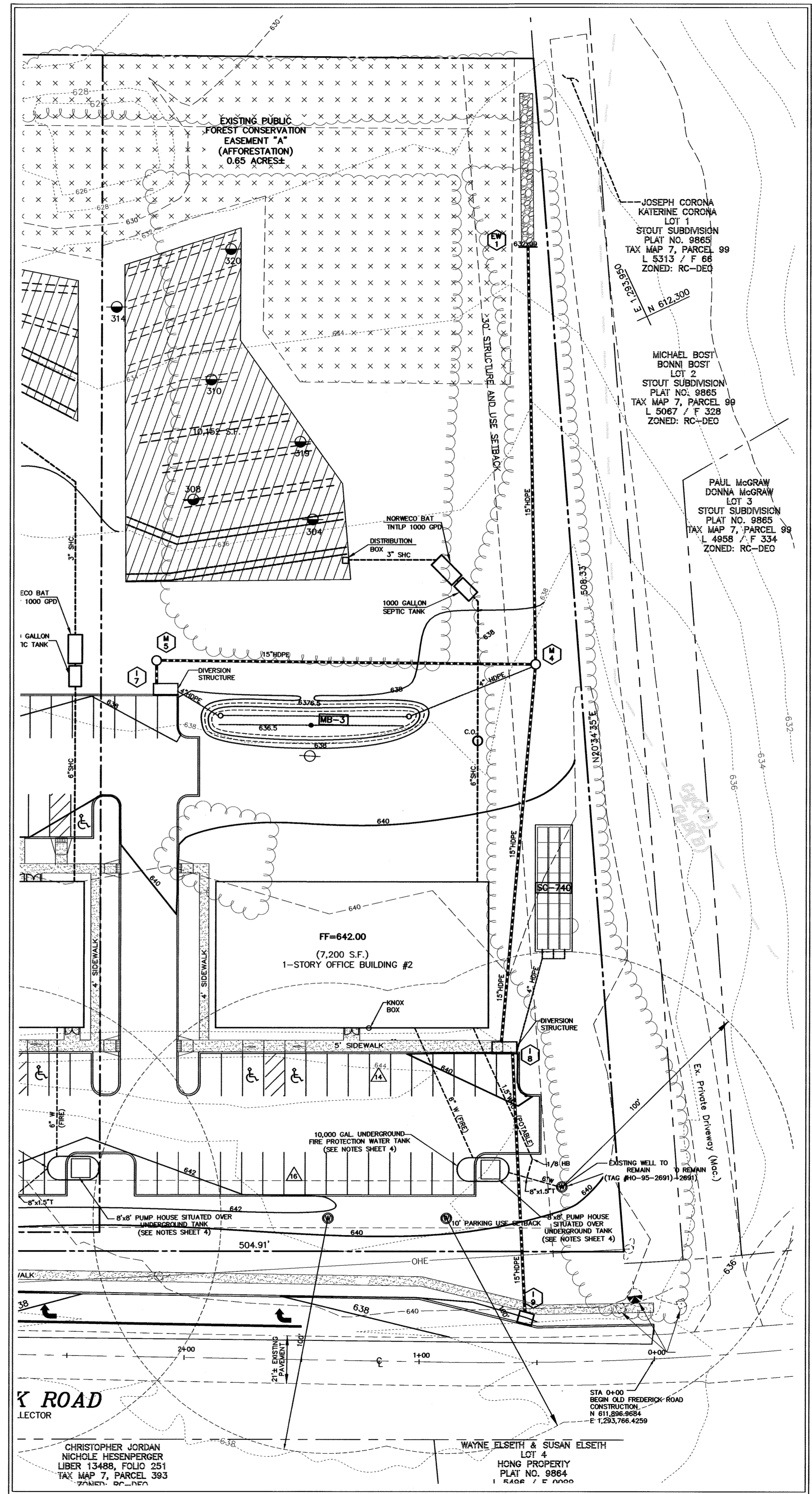
SCALE: 1"=50' HOR  
 1"=5' VER



**PRE-TREATMENT CHAMBER / 1000 GALLON TANK**



**NORWECO TNTLP 1000 GPD**



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
 County Health Officer  
 DATE: 9/28/21

DEPARTMENT OF PLANNING AND ZONING  
 DATE: 8/16/21  
 DATE: 11/8/21  
 DATE: 11/8/21

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. 34027, EXP. DATE 01/16/2023  
 MICHAEL KRETSCH  
 DATE: 7/20/21

**OWNER**  
 WOODBINE BRANTLY, LLC  
 8318 FOREST ST. SUITE 200  
 ELLICOTT CITY, MARYLAND 21043  
 (410)992-4600

Project: 20-026  
 date: JULY 2021  
 Illustration: MAM  
 scale: 1"=30'

description: SEPTIC DESIGN  
 revisions: 1

**WILSON VILLAGE LOTS: 1-3**  
 15850 OLD FREDERICK ROAD WOODBINE, MD  
 TAX MAP 7, PARCEL 478  
 4th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
**ON-SITE SEPTIC DESIGN PLAN (OFFICE BUILDING #2)**

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 7550-B Grace Drive, Columbia, Maryland 21044  
 (410) 997-0296 Fax



**PLANTING SPECIFICATIONS AND NOTES**

- 1. PROTECTION FENCING IS TO BE INSTALLED AS A FIRST ORDER OF BUSINESS. SEE PLAN FOR LOCATIONS.**
- 2. DISTURBANCE OF SOILS SHOULD BE LIMITED TO THE PLANTING FIELD FOR EACH PLANT. AS SHOWN ON THE DETAIL VIEW, A PLANTING FIELD OF RADIUS = 5 X DIAMETER OF THE ROOT BALL OR CONTAINER IS RECOMMENDED.**
- 3. SOIL MIX FOR ALL PLANTS EXCEPT ERICACEOUS MATERIAL: SOIL MIX SHALL CONSIST OF EXISTING NATIVE TOPSOIL MIXTURE AT EACH PLANTING FIELD LOCATION INTO WHICH THE CONTRACTOR SHALL THOROUGHLY INCORPORATE 25% BY VOLUME OF COMPOSTED SLUDGE. SOIL MIX FOR ERICACEOUS MATERIAL: SOIL MIX SHALL CONSIST OF EXISTING NATIVE TOPSOIL MIXTURE AT EACH PLANTING FIELD LOCATION INTO WHICH THE CONTRACTOR SHALL THOROUGHLY INCORPORATE 25% BY VOLUME PEAT MOSS.**
- 4. ALL MIXING IN AND AROUND THE SITE SHALL BE LIMITED TO CONTAINER GROWN OR BALL AND BURLAP STOCK ONLY AND CONFINED TO THE PLANTING FIELD AND IMMEDIATE ADJACENT SOIL SURFACE AREA AND SHALL BE DONE TO THE SATISFACTION OF THE DESIGN TEAM OR ENGINEER.**

**PLANT STORAGE AND INSPECTION**

- 1. FOR CONTAINER GROWN NURSERY STOCK: PLANTING SHOULD OCCUR WITHIN 2 WEEKS AFTER DELIVERY TO THE SITE.**
- 2. FOR BALL AND BURLAP NURSERY STOCK: PLANTING SHOULD OCCUR WITHIN THREE DAYS AFTER DELIVERY TO THE SITE.**
- 3. PLANTING STOCK SHOULD BE INSPECTED PRIOR TO PLANTING. PLANTS NOT CONFORMING TO STANDARD NURSERMAN SPECIFICATIONS FOR SIZE, FORM, WOOD, ROOTS, TRUNK WOUNDS, INSECTS AND DISEASE SHOULD BE REPLACED.**
- 4. UNTIL PLANTED, ALL PLANT STOCK SHALL BE KEPT IN A SHADED, COOL, AND MOISTENED ENVIRONMENT.**

**PLANT INSTALLATION**

- 1. THE PLANTING FIELD SHOULD BE PREPARED AS SPECIFIED (SEE DETAIL). NATIVE STOCKPILED SOILS SHOULD BE USED FOR SOIL MIX AND BACKFILL FOR PLANTING FIELD. AFTER PLANT INSTALLATION, RAKE SOILS EVENLY OVER THE PLANTING FIELD AND COVER WITH AT LEAST 4 INCHES OF MULCH. WATER, GENEROUSLY, TO SETTLE SOIL BACKFILLED AROUND TREES.**
- 2. PLANTING FIELD DIAMETERS SHOULD BE REDUCED OR PLANTING FIELD MOVED IF IT APPEARS THAT EXCESSIVE EXISTING ROOT DAMAGE MAY OCCUR DURING DIGGING OPERATION NEAR EXISTING FOREST.**

**FERTILIZING**

- 1. DO NOT FERTILIZE NEWLY PLANTED TREES WITHIN THE FIRST GROWING SEASON AFTER PLANTING. DOING SO MAY CAUSE A SPURT OF CANOPY GROWTH WHICH THE ROOTS CANNOT SUPPORT AND ADD ADDITIONAL SHOCK TO THE ALREADY DISTURBED PLANT.**
- 2. NOTHING SHOULD BE ADDED TO THE SOIL WITHOUT TESTING IT FIRST TO DETERMINE ITS NEEDS.**
- 3. IF AND WHEN IT IS TIME TO FERTILIZE, ORGANIC FERTILIZERS ARE PREFERRED TO SYNTHETIC FERTILIZERS. BONE MEAL OR SEAWEED BASED PRODUCTS ARE AVAILABLE COMMERCIALY AND ARE RECOMMENDED. THEY HAVE THE ABILITY TO SUPPLY NUTRIENTS TO THE PLANT AS NEEDED WHILE MINIMIZING THE RISK OF EXCESS NUTRIENTS ENTERING THE FOREST SYSTEM AND WATER SUPPLY.**

**MAINTENANCE SCHEDULE**

- 1. ANNUAL MAINTENANCE DURING THE GROWING SEASON, FOR A THREE YEAR PERIOD.**
- 2. ASSESS TREE MORTALITY OF PLANTING STOCK, REMOVE AND REPLACE ANY DEAD OR DISEASED PLANTINGS.**
- 3. VOLUNTARY SEEDING OF NATIVE, LOCAL AND ENDEMIC VEGETATION IS TO BE EXPECTED. DO NOT DISCOURAGE THIS EFFORT UNLESS IT IS NEGATIVELY EFFECTING THE PLANTED STOCK.**
- 4. REMOVE THROUGH MANUAL MEANS (GRUBBING, PULLING, CUTTING) AGGRESSIVE, NOXIOUS, INVASIVE SPECIES AND ALL HERBACEOUS VEGETATION WITHIN A 3-FOOT RADIUS SURROUNDING THE PLANTED WOODY NURSERY STOCK.**
- 5. REMOVE AND DISPOSE OF MAN-MADE TRASH, INCLUDING ITEMS CONTAINED WITHIN ENTIRE PLANTING AREA. DO NOT REMOVE DOWN AND DEAD MATERIAL NATURALLY OCCURRING OR ACCUMULATING, UNLESS IT IS SMOTHERING PLANTING STOCK.**
- 6. A 75 PERCENT SURVIVAL PLANTED STOCK MUST BE ACHIEVED AT THE END OF THE 24 MONTH MANAGEMENT PERIOD. IF NOT, ADDITIONAL PLANTINGS MAY BE REQUIRED TO ACHIEVE THIS GOAL.**

**SUPERVISION**

- 1. ALL FOREST CONSERVATION ACTIVITIES SHALL BE DONE UNDER THE DIRECT SUPERVISION OF SOMEONE FROM THE DESIGN TEAM OR OTHER "QUALIFIED PROFESSIONAL" AS DETERMINED BY THE REQUIREMENTS OF COMAR 08.18.01 AND THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, PUBLIC LANDS AND FORESTRY DIVISION.**

**NOTE :**

THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN THE FOREST CONSERVATION EASEMENTS EXCEPT AS PERMITTED BY THE HOWARD COUNTY FOREST CONSERVATION PROGRAM.

THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION, SOIL COMPACTION, OR EXCAVATION, INTRODUCTION OF TOXIC CHEMICALS OR OTHER DISTURBANCES DETRIMENTAL TO THE LIVE SPECIMEN TREES OR CRITICAL ROOT ZONES FOR THESE TREES EXCEPT AS PERMITTED BY THE HOWARD COUNTY FOREST CONSERVATION PROGRAM.

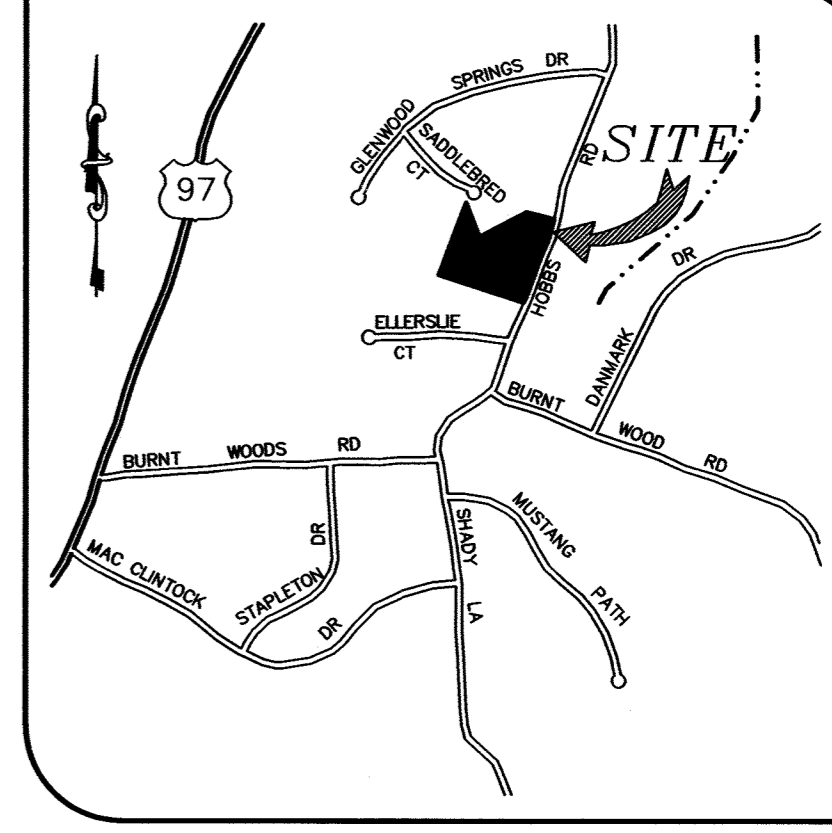
**SOILS CLASSIFICATION**

SYMBOL	DESCRIPTION
BaA	BALE SILT LOAM, 0 TO 3 PERCENT SLOPES (D)
ChB	CHILLUM-RUSSETT LOAMS, 2 TO 5 PERCENT SLOPES (B)
GyB	GLENELG LOAM, 0 TO 3 PERCENT SLOPES (B)
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES (B)

**OFF-SITE FOREST CONSERVATION EASEMENT AREAS**

**TOTAL EASEMENT AVAILABLE FOR PLANTING: 8.87 ACRES±**

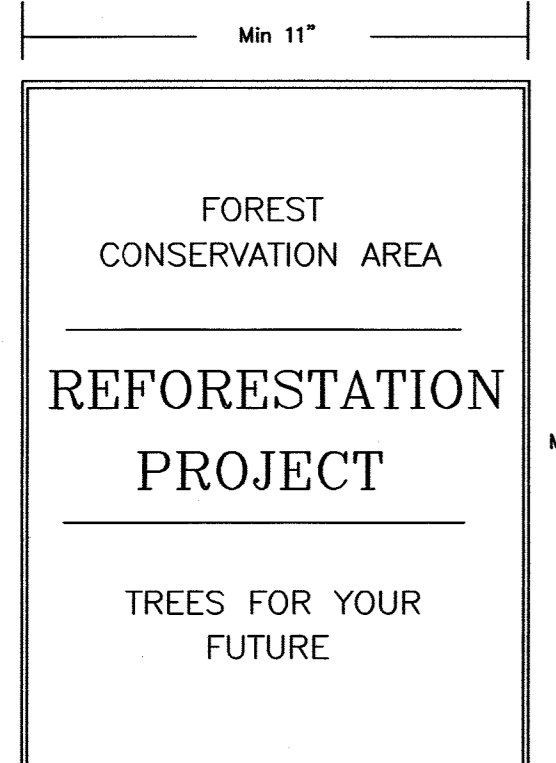
PROJECT	EASEMENT AREA PROVIDED	REMAINING EASEMENT AREA	PLAN #
NORDAU PROPERTY	0.77 ACRES±	8.10 ACRES±	F-12-047
TURLEY'S MEADOW	1.36 ACRES±	6.74 ACRES±	F-13-084
MONTGOMERY CROSSING PHASE 2	1.08 ACRES±	5.66 ACRES±	F-14-029
TURLEY'S OVERLOOK	0.52 ACRES±	5.14 ACRES±	F-14-079
BETHEL MINISTRIES, INC.	0.81 ACRES±	4.33 ACRES±	SDP-14-042
GUILFORD OVERLOOK	0.47 ACRES±	3.86 ACRES±	F-11-059
PINE GROVE ADDITION LOTS 1-6	0.27 ACRES±	3.59 ACRES±	F-15-036
WILSON VILLAGE	0.83 ACRES±	2.76 ACRES±	SDP-14-021



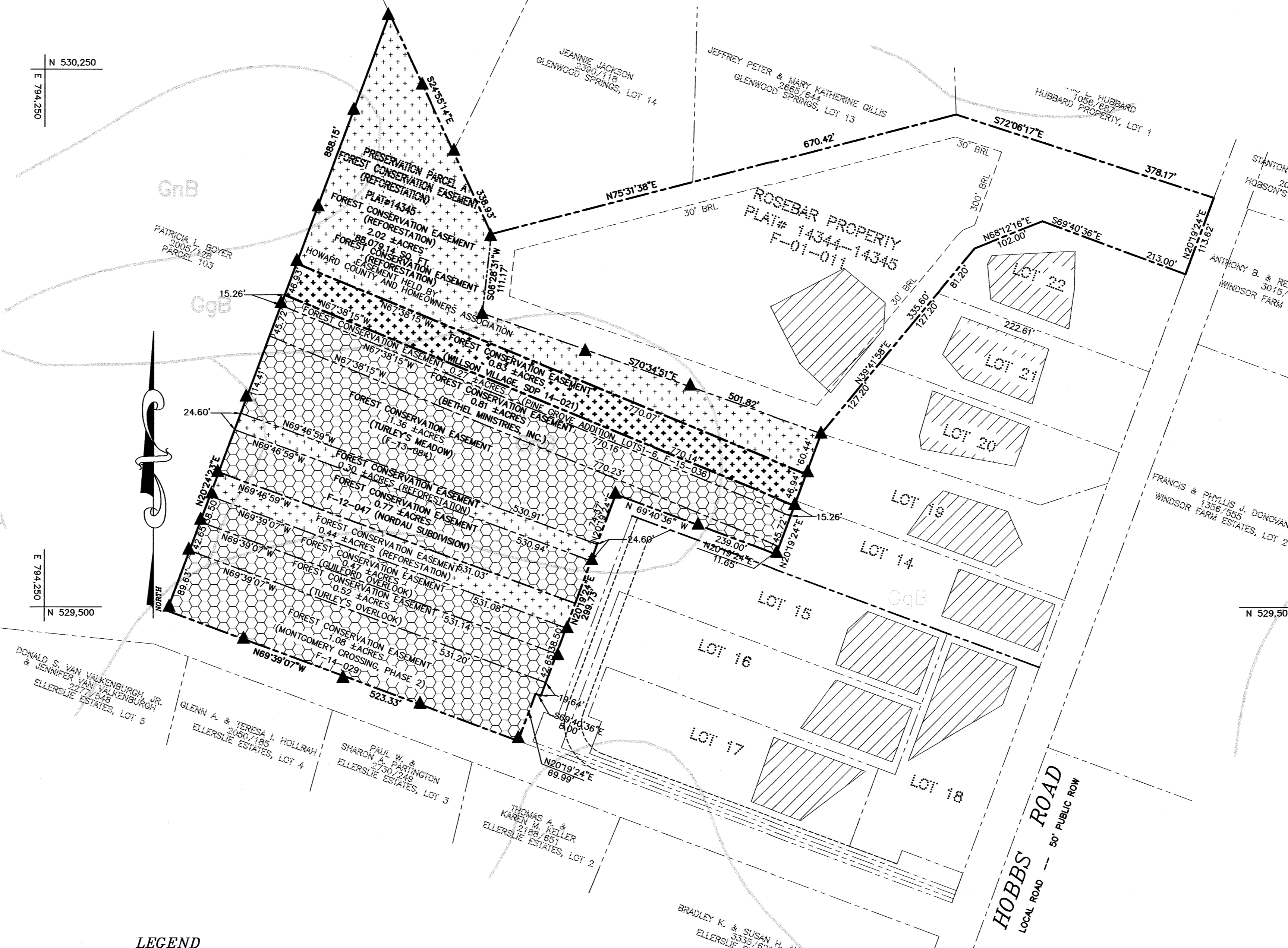
**VICINITY MAP**

SCALE: 1" = 2000'  
ADC MAP 17 B-4

**PROJECT BACKGROUND:**  
LOCATION: TAX MAP: 7 GRID: 6 PARCEL: 478  
ELECTION DISTRICT: FOURTH  
ZONING: B-2  
TOTAL AREA: 5.89 AC.±  
DEED REFERENCE: 08084 / 00137  
PREVIOUS DPZ FILES: F-78-03, SDP-92-77, ECP-13-050



**SIGNAGE DETAILS**  
NOT TO SCALE



**REFORESTATION PLANT LIST**

**ALTERNATIVE 1**

QTY.	SPECIES	SHADE	MOIST.	WET.	MIN.O.C.	SIZE & REMARKS
26	Acer rubrum	VT	D-W	FAC	15'	CONT/B & B
40	Lindera benzoin	T	M	FACW	15'	CONT/B & B
40	Quercus Rubra	I	M-W	FAC	15'	CONT/B & B
40	Liriodendron tulipifera	MT	D-M	FAC	15'	CONT/B & B
30	Nyssa sylvatica	T	M-W	FAC	15'	CONT/B & B
20	Prunus sargentii	I	M	FACU	15'	CONT/B & B
<b>TOTAL</b>						
166 TREES, 40 BUSHES						

**ALTERNATIVE 2**

QTY.	SPECIES	SHADE	MOIST.	WET.	MIN.O.C.	SIZE & REMARKS
50	Acer rubrum	VT	D-W	FAC	11'	SEEDLING/WHIP
40	Lindera benzoin	T	M	FACW	11'	SEEDLING/WHIP
50	Quercus Rubra	I	M-W	FAC	11'	SEEDLING/WHIP
50	Liriodendron tulipifera	MT	D-M	FAC	11'	SEEDLING/WHIP
50	Nyssa sylvatica	T	M-W	FAC	11'	SEEDLING/WHIP
91	Prunus sargentii	I	M	FACU	11'	SEEDLING/WHIP
<b>TOTAL</b>						
291 WHIPS WITH TREE SHELTERS, 40 BUSHES						

**FOREST CONSERVATION WORKSHEET**

NET TRACT AREA:  
A. Total tract area: 5.89  
B. Area within 100 year floodplain & overhead transmission line: 0.00  
C. Area to remain in agricultural production: 0.00  
D. Net tract area: 5.89

LAND USE CATEGORY:  
Input the number "1" under the appropriate land use zoning, and limit to only one entry.  
ARA MDR IDA HDR MPD CIA  
0 0 0 0 1

E. Afforestation Threshold: 15% x D = 0.88  
F. Conservation Threshold: 15% x D = 0.88

EXISTING FOREST COVER:  
G. Existing forest cover (excluding floodplain): 0.60  
H. Area of forest above afforestation threshold: 0.00  
I. Area of forest above conservation threshold: 0.00  
BREAK EVEN POINT:  
J. Forest retention above threshold with no mitigation: 0.00  
K. Clearing permitted without mitigation: 0.00

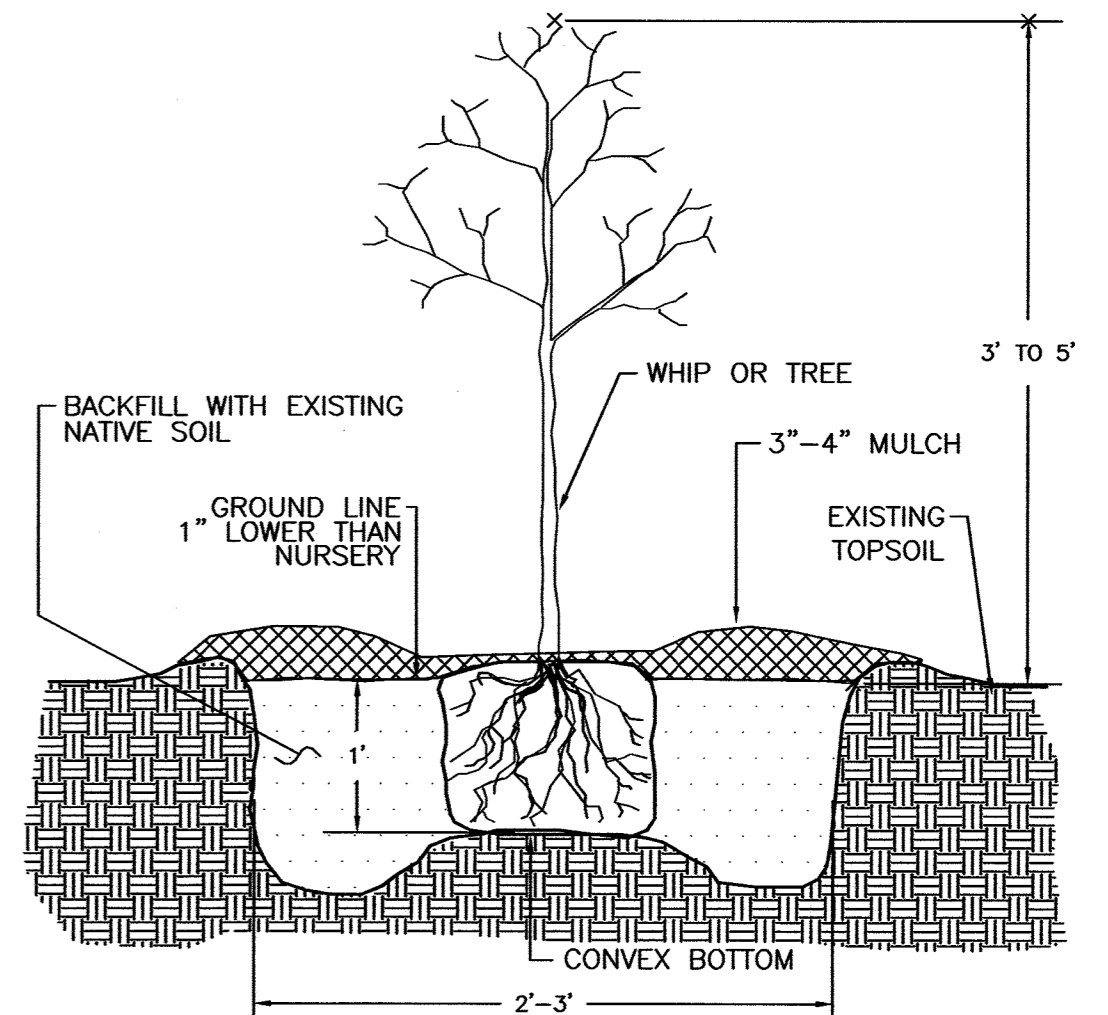
PROPOSED FOREST CLEARING:  
L. Total area of forest to be cleared: 0.60  
M. Total area of forest to be retained: 0.00

PLANTING REQUIREMENTS:  
N. Reforestation for clearing above conservation threshold: 0.00  
P. Reforestation for clearing below conservation threshold: 1.20  
Q. Credit for retention above conservation threshold: 0.00  
R. Total reforestation required: 1.20  
S. Total afforestation required: 0.28  
T. Total reforestation and afforestation required: 1.48  
U. Total reforestation and afforestation provided onsite: 0.65  
Total reforestation and afforestation provided offsite: 0.83

**LEGEND**

- EXISTING SEPTIC EASEMENT
- FOREST CONSERVATION EASEMENT (REFORESTATION) THAT SATISFY OTHER SUBDIVISION FOREST CONSERVATION OBLIGATION.
- EXISTING FOREST CONSERVATION EASEMENT (REFORESTATION) F-01-11 AVAILABLE.
- PROPOSED FOREST CONSERVATION EASEMENT FOR WILSON VILLAGE SHOPPING CENTER.
- DENOTES FOREST CONSERVATION SIGNAGE

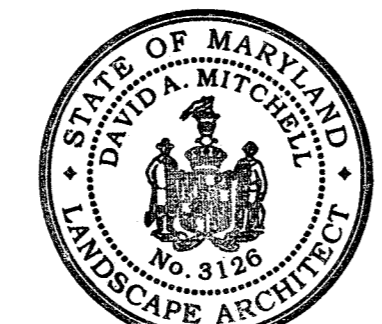
FOREST CONSERVATION IN ACCORDANCE WITH SECTION 16.1202 OF THE FOREST CONSERVATION MANUAL SHALL BE PROVIDED BY PLACEMENT OF 0.83 ACRES OF REQUIRED REFORESTATION FOR THE WILSON VILLAGE SHOPPING CENTER INTO AN OFF-SITE EASEMENT ON PROPERTY IDENTIFIED AS THE ROSEBAR PROPERTY, PRESERVATION PARCEL A, LOCATED ON TAX MAP NO. 14 AND IDENTIFIED AS PARCEL 221, SITUATED ON THE WEST SIDE OF HOBBS ROAD. THE ROSEBAR FOREST CONSERVATION EASEMENT HAS BEEN SHOWN ON SHEET 18 OF SDP-97-115/NEW COLONY VILLAGE. DPZ HAS DETERMINED THAT A RED-LINE REVISION SHALL BE MADE TO SDP-97-115 TO SHOW 0.83 ACRES OF REFORESTATION DEDUCTED FROM THE TOTAL FC EASEMENT LOCATED ON ROSEBAR. SURETY FOR THE OFF-SITE FOREST CONSERVATION EASEMENT ON THE ROSEBAR PROPERTY HAS BEEN PREVIOUSLY POSTED BY THE OWNER OF THE EASEMENT HOLDER.



**TREE PLANTING DETAIL**  
CONTAINER GROWN

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
  
 DATE: 8/16/21  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 11/18/21  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 11/18/21

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 28859, EXP. DATE 08/08/23  
 SAMER A. ALOMER, P.E. DATE: 7/20/21



PROFESSIONAL LANDSCAPE ARCHITECT  
 LICENSE NO.: 3126  
  
 DAVID A. MITCHELL, P.L.A. DATE: 07/15/2021

date	JULY 2021	approval	SA
project	20-028	illustration	MM
scale	1" = 30'	revision	

date		approval	SA
project	20-028	illustration	MM
scale	1" = 30'	revision	

**WILSON VILLAGE**  
 15850 OLD FREDERICK ROAD WOODBINE, MD  
 TAX MAP 7 GRID 6 PARCEL 478  
 4th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
**OFF-SITE FOREST CONSERVATION PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 7850-B Grace Drive, Columbia, Maryland 21044  
 (410) 997-0296 Fax: (410) 997-0298 Fax