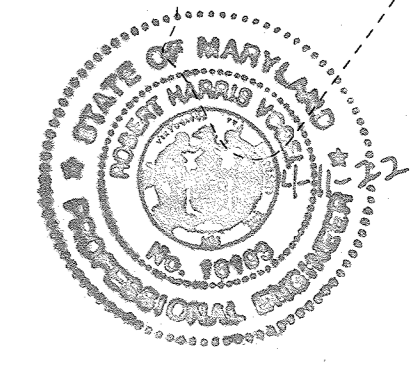


APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER: *Michael J. Carr* DATE: 11/20/2020

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
x362.2	SPOT ELEVATION
⊙	DENOTES PROPOSED WELL
⊙	DENOTES EXISTING WELL
11	DENOTES PASSED PERC
T-1	DENOTES FAILED PERC TEST / SOIL BORING
LTD	LIMIT OF DISTURBANCE
SSF	SUPER SILT FENCE
SF	SILT FENCE
---	EXISTING TREE LINE
---	DRAINAGE DIVIDE
GmC	DRYWELL (M-5)-TYPICAL
LTD	SOIL LINES AND TYPES
⊙	BIO RETENTION FACILITY (F-6) OR (M-6) AS NOTED
⊙	PROPOSED ROOF LEADER
⊙	DENOTES EXISTING TREES TO BE REMOVED
⊙	DENOTES EXISTING TREES TO REMAIN
---	APPROVED SEWAGE DISPOSAL AREA
---	EXISTING GRAVEL
---	ERODIBLE SOILS
▼	INGRESS ENTRANCE
▼	EGRESS EXIT
---	DENOTES EXISTING FOREST TO BE REMOVED

PLAN
 SCALE: 1" = 30'

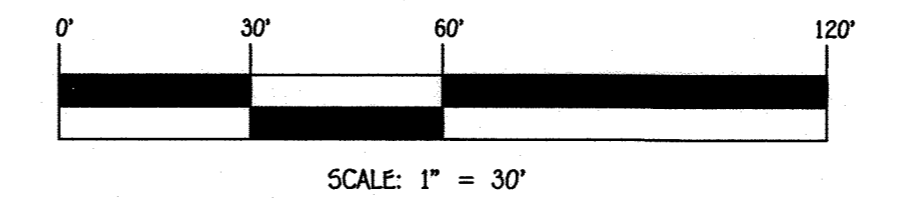


AS-BUILT CERTIFICATION FOR PSWM
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.
 P.E. NAME: *Walter* P.E. # 16193 DATE: 4-11-21

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLETTT CITY, MARYLAND 21142
 (410) 461-2899



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
Frank Manalasan II DATE: 5/21/20



OWNER: DAISY CROSSROADS LLC, 16135 ED WARFIELD ROAD, WOODBINE, MD 21797-7811
 DEVELOPER: RYAN MCWHORTER, 6951 REDBERRY ROAD, CLARKSVILLE, MD 21029, (410)-984-5813

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: *Walter* DATE: 9-29-20
 Chief, Development Engineering Division: *Walter* DATE: 11-30-20
 Director: Department of Planning and Zoning

PROJECT	PHASE	PARCEL NO.
MCWHORTER PROPERTY	N/A	334
FLAT	BLOCK NO.	ZONE
9800-9802	23	B-2
TAX/ZONE	ELEC. DIST.	CENSUS TR.
13	4	24027604002

PREVIOUS HOWARD COUNTY FILES: ECP-19-082, F-90-56

SITE DEVELOPMENT PLAN
 MCWHORTER PROPERTY
 WARFIELD'S GRANT SECTION 1, AREA 1
 PARCEL 'A'
 16031 ED WARFIELD ROAD
 TAX MAP NO.: 13 GRID NO.: 23 PARCEL NO.: 334
 ZONED B-2
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: APRIL, 2020
 SHEET 2 OF 13

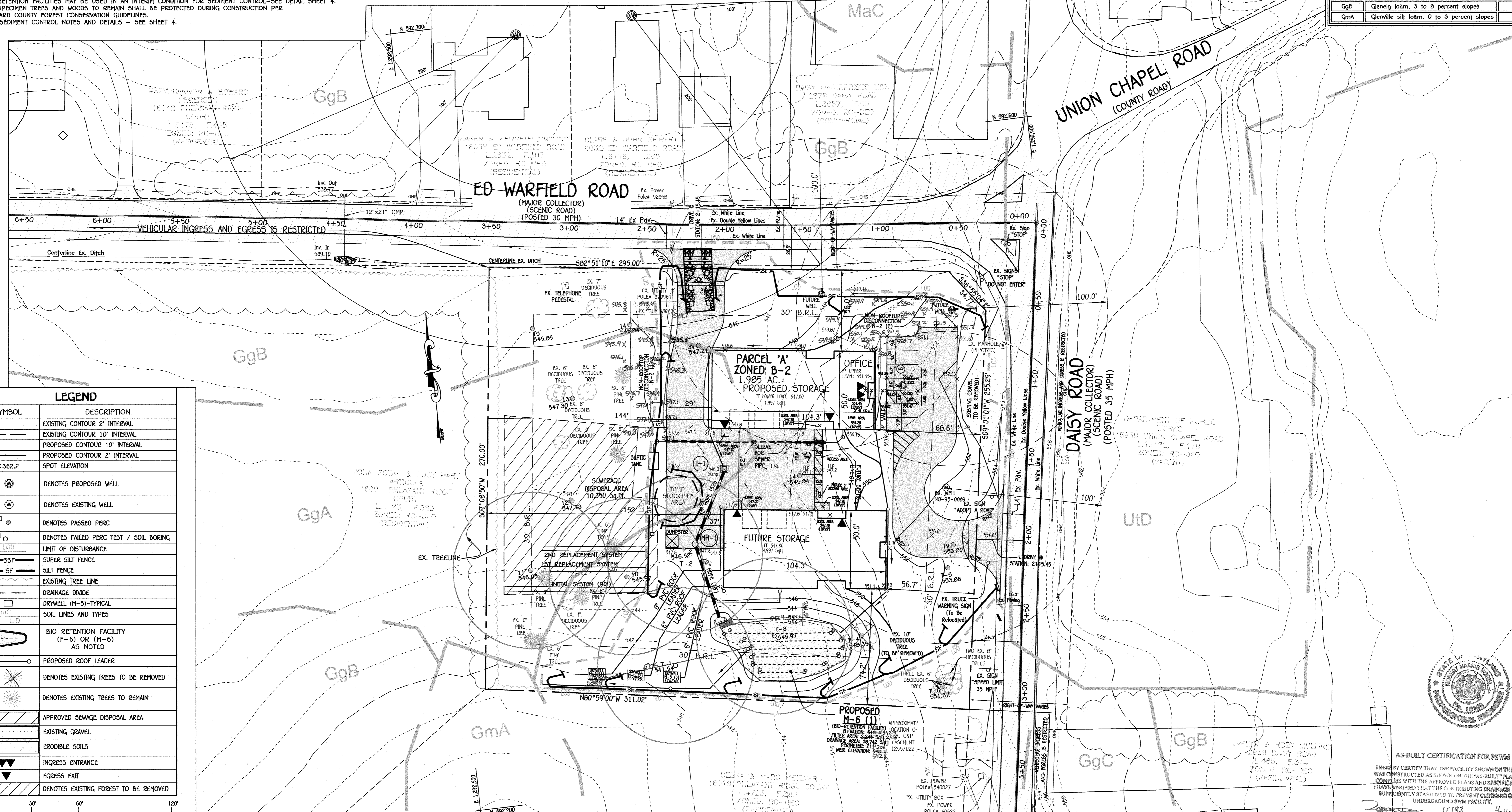
AS-BUILT, NOV. 2021

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SEDIMENT CONTROL NOTES

- 1) WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE CONTRACTOR MAY SUBSTITUTE SILT FENCE FOR SUPER SILT FENCE WHERE APPROPRIATE.
- 2) AT THE REQUEST OF THE SEDIMENT CONTROL INSPECTOR, THE CONTRACTOR MAY BE REQUIRED TO PROVIDE SUPER SILT FENCE WHERE SILT FENCE IS SHOWN ON THESE PLANS.
- 3) BIO RETENTION FACILITIES MAY BE USED IN AN INTERIM CONDITION FOR SEDIMENT CONTROL—SEE DETAIL SHEET 4.
- 4) ALL SPECIFIC TREES AND WOODS TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION PER HOWARD COUNTY FOREST CONSERVATION GUIDELINES.
- 5) FOR SEDIMENT CONTROL NOTES AND DETAILS - SEE SHEET 4.

SOILS LEGEND			
SOIL	NAME	CLASS	K _w
GgA	Glenelg loam, 0 to 3 percent slopes	B	0.37
GgB	Glenelg loam, 3 to 8 percent slopes	B	0.37
GmA	Glenelg silt loam, 0 to 3 percent slopes	C	0.49



LEGEND	
--- (dashed)	EXISTING CONTOUR 2' INTERVAL
--- (dashed)	EXISTING CONTOUR 10' INTERVAL
--- (dashed)	PROPOSED CONTOUR 10' INTERVAL
--- (dashed)	PROPOSED CONTOUR 2' INTERVAL
•	SPOT ELEVATION
⊙	DENOTES PROPOSED WELL
⊙	DENOTES EXISTING WELL
⊙	DENOTES PASSED PERC
T-1	DENOTES FAILED PERC TEST / SOIL BORING
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	SILT FENCE
---	EXISTING TREE LINE
---	DRAINAGE DIVIDE
---	DRYWELL (M-5)-TYPICAL
---	SOIL LINES AND TYPES
---	BIO RETENTION FACILITY (F-6) OR (M-6) AS NOTED
---	PROPOSED ROOF LEADER
✕	DENOTES EXISTING TREES TO BE REMOVED
☼	DENOTES EXISTING TREES TO REMAIN
---	APPROVED SEWAGE DISPOSAL AREA
---	EXISTING GRAVEL
---	ERODIBLE SOILS
---	INGRESS ENTRANCE
---	EGRESS EXIT
---	DENOTES EXISTING FOREST TO BE REMOVED

SCALE: 1" = 30'

PLAN
SCALE: 1" = 30'



AS-BUILT CERTIFICATION FOR PSWM
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPLICABLE PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.
P.E. NAME: 16193 DATE: 4-11-20

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461 - 2995



PROFESSIONAL CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
Signature: Frank John Manalang II DATE: 5/21/20
SIGNATURE OF LICENSED PROFESSIONAL FRANK JOHN MANALANG II DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Signature: Paul H. H... DATE: 6/10/20
HOWARD SOIL CONSERVATION DISTRICT

BUILDER/DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, FOR SEDIMENT AND EROSION CONTROL AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
Signature: Ryan McWhorter DATE: 5/21/20
SIGNATURE OF DEVELOPER RYAN MCWHORTER DATE

OWNER
DAISY CROSSROADS LLC
16135 ED WARFIELD ROAD
WOODBINE, MD 21797-7811

DEVELOPER
RYAN MCWHORTER
6891 REDBERRY ROAD
CLARKSVILLE, MD 21029
(410)-984-5813

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development	Signature: [Signature]	Date: 9-29-20
Chief, Development Engineering Division	Signature: [Signature]	Date: 11-30-20
Director - Department of Planning and Zoning	Signature: [Signature]	Date: [Date]

PROJECT	PHASE	PARCEL NO.
MCWHORTER PROPERTY	N/A	334

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
9800-9802	23	B-2	13	4	24027604002

PREVIOUS HOWARD COUNTY FILES:
ECP-19-062, F-90-56

SEDIMENT EROSION CONTROL PLAN
MCWHORTER PROPERTY
WARFIELD'S GRANT SECTION 1, AREA 1
PARCEL 'A'
16031 ED WARFIELD ROAD
TAX MAP NO.: 13 GRID NO.: 23 PARCEL NO.: 334
ZONED B-2
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: APRIL, 2020
SHEET 3 OF 13

AS-BUILT, NOV. 2021

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SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

- A. SOIL PREPARATION**
- TEMPORARY STABILIZATION**
 - SEEDING PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGGREGATOR OR EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL FLOWS OR DISKS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSEND, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT TO THE CONTOUR OF THE SLOPE.
 - APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
 - INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
 - PERMANENT STABILIZATION**
 - A SOIL TEST IS REQUIRED FOR EVERY ACRES OF DISTURBED AREA OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
 - SOIL PH BETWEEN 6.0 AND 7.0
 - SOIL CONTAINS LESS THAN 500 PARTS PER MILLION (PPM).
 - SOIL CONTAINS LESS THAN 400 PARTS PER MILLION (PPM) OF HEAVY METALS.
 - SOIL CONTAINS LESS THAN 1000 PARTS PER MILLION (PPM) OF NITROGEN.
 - SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
 - APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
 - GRAVEL AREAS MUST BE MAINTAINED AS A TRAIL AND OPEN GRAVE AS SPECIFIED ON THE APPROVED PLAN. THEM SCARIFIED OR OTHERWISE LOOSEND TO A DEPTH OF 3 TO 5 INCHES.
 - APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
 - IF SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. DISK LAYERS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHED, AND READY THE AREA FOR SOIL APPLICATION BY DISKING WITH A DISK OR OTHER EQUIPMENT TO SMOOTH THE SURFACE. THESE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDING PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN ADEQUATE CONDITION WITH DISKS RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FERTILIZER LOOSENDING MAY BE UNNECESSARY ON HEAVY DISTURBED AREAS.

TEMPORARY SEEDING NOTES (B-4-4)

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE:
TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES:
DISTURBED SOILS WHERE COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LOWER SLOPES OF THE PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

CRITERIA:

- SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.1 FOR THE SPECIFIED PLANT HARDINESS ZONE (FROM FIGURE B.3) AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS.
- THE SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
- FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTS. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
- WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-4.1 AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

HARDINESS ZONE (FROM FIGURE B.3)	SEEDING DATE	SEEDING DEPTH	FERTILIZER RATE (10-20-20)	LIME RATE
COOL SEASON GRASSES				
BAILEY	9/6	1"	45 LB/A (10.0 LB/1000 SF)	2 TONS/A (500 LB/1000 SF)
ORNS	3/01 - 5/15	1"	45 LB/A (10.0 LB/1000 SF)	2 TONS/A (500 LB/1000 SF)
OTC	8/01 - 10/15	1"	45 LB/A (10.0 LB/1000 SF)	2 TONS/A (500 LB/1000 SF)
WARM SEASON GRASSES				
FOXTAIL MILLET	3/0	0.7"	45 LB/A (10.0 LB/1000 SF)	2 TONS/A (500 LB/1000 SF)
PEARL MILLET	5/16 - 7/31	0.7"	45 LB/A (10.0 LB/1000 SF)	2 TONS/A (500 LB/1000 SF)

B. TOPSOILING

- TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF MODERATE TO LOW FERTILITY, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL QUANTITY.
- TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
- TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - THE TEXTURE OF THE EXISTING SUBSOIL MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUOUS SUPPLY OF NUTRIENTS AND PLANT NUTRIENTS.
 - ADDITIONAL PLANTING MATERIALS SUCH AS SHROUDES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS MULCH OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE SECTION 342 - CORNICAL AREA PLANNING.
 - FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY. FOR AREAS BEYOND LOW MAINTENANCE, APPLY LIME AND FERTILIZER (16-0-0) AT 1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.
- TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BIRCHBARK GRASS, QUACK GRASS, JOHNSON GRASS, SWEET WOODRUFF, POISON Ivy, THISTLE, OR OTHERS AS SPECIFIED.
- TOPSOIL SUBSTITUTES OR AMENDMENTS AS RECOMMENDED BY A QUALIFIED AGRICULTURIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
- TOPSOIL APPLICATION**
 - EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
 - UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SOILING OR SEEDING CAN BE PERFORMED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. APPLY TOPSOIL TO SURFACE EXPOSURE OF ALL DISTURBED AREAS. OTHER OPERATIONS MUST BE CONDUCTED IN ORDER TO PREVENT THE FORMATION OF PROJECTIONS OR WATER POCKETS.
 - TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MOIST CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY MOIST OR IN A CONDITION THAT WOULD BE DETRIMENTAL TO TOPSOIL GROWING AND SEEDING PREPARATION.

C. SOIL AMENDMENTS (FERTILIZER & LIME SPECIFICATIONS)

- SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATES AND APPLICATION DATES FOR BOTH LIME AND FERTILIZERS ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A QUALIFIED AGRICULTURIST OR SOIL SCIENTIST. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSIS.
- FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE AUTHORITY. FERTILIZERS MUST BE DELIVERED TO THE SITE FULLY BAGGED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
- LIME MATERIALS SHOULD BE HIGHLY PURE (UNBURNED OR BURNED LIME) BUT BE SUBSTITUTED EXCEPT WHEN HIGH-PURITY LIME WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GRIND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 90 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
- LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
- WHERE THE SUBSOIL IS EITHER HEAVILY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GYPSUM LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

DUST CONTROL

- DEFINITION:**
CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.
- PURPOSE:**
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.
- CONDITIONS WHERE PRACTICE APPLIES:**
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.
- SPECIFICATIONS:**
- WATERING - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE COMPACTED OR TACKED TO PREVENT BLOWING.
 - VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
 - TILLAGE - TO SMOOTH SURFACE AND BOND CLAYS TO THE SURFACE, THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLACING ON DOWNWIND SIDE OF THE SITE. CHISEL-TYPE PLANS SPACED ABOUT 12" APART. SPRING-TOOTHED HARROWS AND SIMILAR PLANS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
 - SPRINKLING - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE SPRINKLED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
 - BARRETS - SOLID ROUND FENCIBLE SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALE BARRIERS AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CONTROLLING SOIL BLOWING, CURRENTS AND SOIL BLOWING. CURRENTS AND SOIL BLOWING, BARRETS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 100 FEET. THEIR HEIGHT ARE EFFECTIVE IN 50 PERCENT OF WINDS.
 - CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY BE NECESSARY TO REAPPLY.

PERMANENT SEEDING SUMMARY

HARDINESS ZONE (FROM FIGURE B.3)	SEEDING DATE	SEEDING DEPTH	FERTILIZER RATE (10-20-20)	LIME RATE
COOL SEASON GRASSES				
NO. SPECIES APPLICATION RATE (LB/AC)				
1. TALL FESCUE	100	MAY 1 - MAY 15 AUG 1 - OCT 15	45 LB/A (10.0 LB/1000 SF) 90 LB/A (20.0 LB/1000 SF)	2 TONS/A (500 LB/1000 SF)
WARM SEASON/COOL SEASON GRASS MIX				
2. TALL FESCUE	100	MAY 1 - MAY 15 MAY 16 - JUN 15	45 LB/A (10.0 LB/1000 SF) 90 LB/A (20.0 LB/1000 SF)	2 TONS/A (500 LB/1000 SF)

STANDARD STABILIZATION NOTE

- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
- THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERMITS, DITCHES, SWALES, DITCHES, PERMITS, SLOPES, AND ALL SLOPES STEEPER THAN 1 HORIZONTAL TO 1 VERTICAL (3:1).
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- SCALE: 1" = 30'**

STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING (B-4-3)

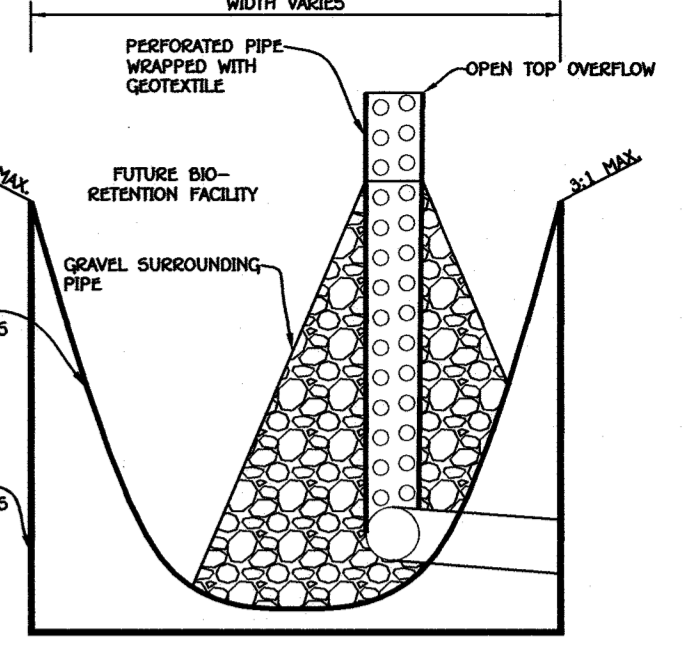
- DEFINITION:**
THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.
- PURPOSE:**
TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.
- CRITERIA:**
- ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED ACT. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A QUALIFIED SEED LABORATORY. ALL SEED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.1 REQUIRING THE QUALITY OF SEED. SEED RATES MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR.
 - MULCH ALONE MAY BE APPLIED BEFORE THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROVED SEEDING METHOD MUST BE APPLIED WHEN THE GROUND THAW.
 - INCORPORATE THE MULCH INTO THE SOIL BY MEANS OF A PULVERIZER OR OTHER EQUIPMENT TO SMOOTH THE SURFACE. MULCH MUST BE APPLIED TO THE SURFACE OF ALL DISTURBED AREAS. MULCH MUST BE APPLIED TO THE SURFACE OF ALL DISTURBED AREAS. MULCH MUST BE APPLIED TO THE SURFACE OF ALL DISTURBED AREAS. MULCH MUST BE APPLIED TO THE SURFACE OF ALL DISTURBED AREAS.

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

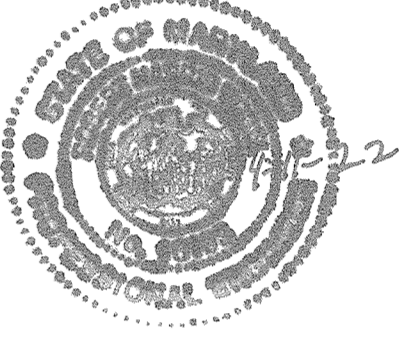
- A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1895 AFTER THE FUTURE LEO AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOURS NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES: A. PRIOR TO THE START OF EARTH DISTURBANCE.
- UPON COMPLETION OF THE INSTALLATION OF PERMITS, EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER DISTURBANCE OR GRADING OR CONSTRUCTION OF ENTRANCE AND SILT FENCE.
- WITH PERMISSION FROM THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID) SHALL CONDUCT VISUAL INSPECTIONS OF THE PERMITS, EROSION AND SEDIMENT CONTROLS, AND ALL SLOPES STEEPER THAN 1 HORIZONTAL TO 1 VERTICAL (3:1) AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERMITS, DITCHES, SWALES, DITCHES, PERMITS, SLOPES, AND ALL SLOPES STEEPER THAN 1 HORIZONTAL TO 1 VERTICAL (3:1) AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
- TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BEFORE THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCORPORATE THE MULCH INTO THE SOIL BY MEANS OF A PULVERIZER OR OTHER EQUIPMENT TO SMOOTH THE SURFACE. MULCH MUST BE APPLIED TO THE SURFACE OF ALL DISTURBED AREAS. MULCH MUST BE APPLIED TO THE SURFACE OF ALL DISTURBED AREAS. MULCH MUST BE APPLIED TO THE SURFACE OF ALL DISTURBED AREAS.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED IF DEEPEXED BY THE CID. THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY, AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE:
 - INSPECTION DATE
 - INSPECTION TIME (BEGINNING, PRE-STEAM EVENT, DURING RAIN EVENT)
 - WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION)
 - IDENTIFICATION OF PROJECT'S STATUS (E.G., PARTIALLY COMPLETED AND/OR CURRENT ACTIVITIES)
 - IDENTIFICATION OF SOIL DISTURBANCE AREAS
 - IDENTIFICATION OF MISSING OR DEFICIENTLY INSTALLED SEDIMENT CONTROLS
 - COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS
 - PHOTOGRAPHS/VIDEO
 - MONITORING/SAMPLING
 - REPAIRS/REVISIONS/RECOMMENDATIONS
 - OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (PERMITS)
- TRUCKS FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE FEET LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
- ANY MAJOR CHANGE OR REMOVAL TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. WORK REVISIONS MAY ALLOWED BY THE HSCD PER THE LIST OF HSCD-APPROVED FIELD CHANGES.
- DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MINIMUM AVERAGE OF 20' BY 20' GRADING UNIT) AT A TIME. MULCH WILL BE APPLIED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE HSCD. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD, NO MORE THAN 30 ACRES CONTIGUOUSLY MAY BE DISTURBED AT A GIVEN TIME.
- WASH WATER FROM ANY EQUIPMENT, VEHICLES, TRUCKS, AND OTHER SOURCES MUST BE TREATED IN A SEPARATE BASIN OR OTHER APPROVED WASTEWATER TREATMENT.
- TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR RE-DISTRIBUTION UNTIL FINAL GRADE.
- ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON THE CONTOUR, AND BE INDICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPWARD BY 2" IN ELEVATION.
- STORM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (DRAINAGES):
 - USE AND IF MARCH 1 - JUNE 15
 - USE AND IF OCTOBER 1 - APRIL 30
 - USE AND IF MAY 1 - MAY 31
- A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PROFILES SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR. (14 DAYS)
 - NOTIFY "MUD UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING WORK AT 1-800-227-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION AT 410-313-1300 AT LEAST 24 HOURS BEFORE STARTING WORK. (5 DAYS)
 - INSTALL THE STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE. (7 DAYS)
 - WITH PERMISSION FROM THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID) SHALL CONDUCT VISUAL INSPECTIONS OF THE PERMITS, EROSION AND SEDIMENT CONTROLS, AND ALL SLOPES STEEPER THAN 1 HORIZONTAL TO 1 VERTICAL (3:1) AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING. (6 MONTHS)
 - FINISH GRADE SITE AND PERMITS PERMANENT SEEDING. (5 DAYS)
 - WITH PERMISSION FROM THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID) SHALL CONDUCT VISUAL INSPECTIONS OF THE PERMITS, EROSION AND SEDIMENT CONTROLS, AND ALL SLOPES STEEPER THAN 1 HORIZONTAL TO 1 VERTICAL (3:1) AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING. (7 DAYS)
 - ALL FINAL GRASSES AND STABILIZATION SHOULD BE COMPLETED BEFORE ANY REMOVAL OF CONTROLS. WHEN ALL CONTROLLING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED. (5 DAYS)
- NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE EACH RAINFALL AND ON A DAILY BASIS.



TYPICAL SECTION - OPTIONAL INTERIOR BIO-RETENTION FACILITY
NOT TO SCALE

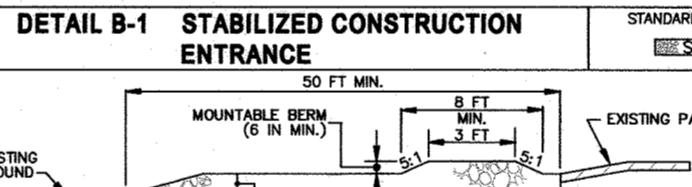


AS-BUILT CERTIFICATION FOR PERMITS

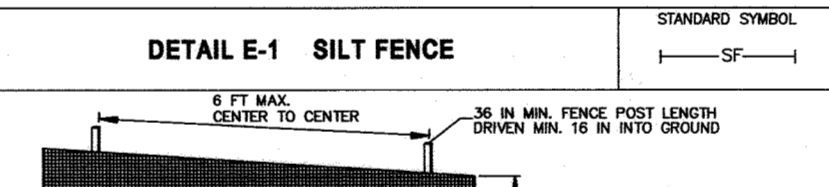
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED IN ACCORDANCE WITH THE PLAN AND COMPLIES WITH THE APPLICABLE LAWS AND SPECIFICATIONS. I HAVE SUPERVISED THE CONSTRUCTION OF THE FACILITY AND AM A QUALIFIED PROFESSIONAL ENGINEER IN THE UNDERGROUND SW FACILITY.

DATE: 4-1-22
SIGNATURE: [Signature]
F.E.P. NO. 12-118

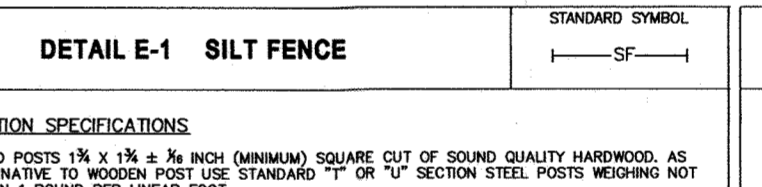
NO AS-BUILT INFORMATION ON THIS SHEET



DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



DETAIL E-1 SILT FENCE



DETAIL E-3 SUPER SILT FENCE

FOR STOCKPILE AREAS B-4-8

- DEFINITION:**
A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.
- PURPOSE:**
TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION AND CHANGES TO DRAINAGE PATTERNS.
- CRITERIA:**
- THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
 - THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SOIL LOSS RATIO OF 2:1. THE STOCKPILE AREA MUST BE SIZED TO ACCOMMODATE WITH SECTION B-4-1 BASED ON A SOIL LOSS RATIO OF 2:1. THE STOCKPILE AREA MUST BE SIZED TO ACCOMMODATE WITH SECTION B-4-1 BASED ON A SOIL LOSS RATIO OF 2:1.
 - RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.
 - ACROSS THE STOCKPILE AREA FROM THE UPGRADE SIDE.
 - CLEAR RUNOFF CHANNELS AND DRAINAGE PATTERNS MUST BE MAINTAINED BY THE CONTRACTOR. A LINE SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.
- MAINTENANCE:**
- THE STOCKPILE AREA MUST BE MAINTAINED TO MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN 2:1 RATIO. THE STOCKPILE AREA MUST BE LEFT FREE OF VEGETATION IF THE STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, OR 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BEHIND WHICH MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-4-1 AND 2.

PROFESSIONAL CERTIFICATE

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

SIGNATURE OF LICENSED PROFESSIONAL: [Signature]
DATE: 5/21/20

BUILDER/DEVELOPER'S CERTIFICATE

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

SIGNATURE OF DEVELOPER: [Signature]
DATE: 5/21/20

OWNER

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

SIGNATURE OF OWNER: [Signature]
DATE: 6/12/20

DEVELOPER

RYAN MCWHORTER
6921 REDBERRY ROAD
CLARKSVILLE, MD 21229
(410)-984-5813

CONSTRUCTION SPECIFICATIONS

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SILT FENCE. MINIMUM LENGTH OF 50 FEET (50 FEET FOR SINGLE RESIDENCE LOTS) USE MINIMUM WIDTH OF 10 FEET. PLACE SILT FENCE MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SILT FENCE ENTRANCE. MAINTAIN POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SILT FENCE WITH A MOVABLE COVER WHEN THE SILT FENCE IS NOT IN USE. THE SILT FENCE MUST BE MAINTAINED AS SPECIFIED ON APPROVED PLAN, WHEN THE SILT FENCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE IS NOT NECESSARY. A MOVABLE COVER IS REQUIRED WHEN SILT IS NOT PRESENT AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CURBED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE WITHOUT REMOVAL AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SILT FENCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, AND STONE OR OTHER MATERIALS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLS, DRIPPED, OR OTHER MATERIALS. MAINTAIN ENTRANCE AND DRAINAGE PATTERNS. MAINTAIN ENTRANCE AND DRAINAGE PATTERNS. MAINTAIN ENTRANCE AND DRAINAGE PATTERNS. MAINTAIN ENTRANCE AND DRAINAGE PATTERNS.

CONSTRUCTION SPECIFICATIONS

- USE WOOD POSTS 1 1/2" x 1 1/2" x 1/4" (NO. 2 MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POSTS, GALVANIZED STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
- USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
- USE WOVEN SILT FABRIC GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPRIGHTS OF WOODEN POSTS OR GALVANIZED STEEL POSTS AT TOP AND BOTTOM.
- PERMIT MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- EMBED GEOTEXTILE A MINIMUM OF 6 INCHES VERTICALLY INTO THE GROUND, BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
- EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSTREAM AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BUILDS UP IN SILT FENCE OR WHEN SEDIMENT REACHES 20% OF FENCE HEIGHT. REPLACE GEOTEXTILE AS NEEDED.

CONSTRUCTION SPECIFICATIONS

- INSTALL 24 INCH DIAMETER GALVANIZED STEEL POSTS OF 6000 HIGH WALL THICKNESS AND 90 FEET LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 30 INCHES INTO GROUND.
- FASTEN A GAUGE OR HEAVY GALVANIZED CHAIN LINK FENCE (24 INCH MAXIMUM OPENING) 42 INCHES TO EACH POST WITH GALVANIZED STEEL BOLTS WITH WASHERS AND NUTS OR 1/4" DIA. BOLTS.
- FASTEN WOVEN SILT FABRIC GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSIDE OF CHAIN LINK FENCE WITH 24 INCHES AT THE TOP AND 12 INCHES AT THE BOTTOM AND SECURELY TO THE GROUND WITH GALVANIZED STEEL BOLTS WITH WASHERS AND NUTS OR 1/4" DIA. BOLTS.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSTREAM AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
- PERMIT MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BUILDS UP IN SILT FENCE OR WHEN SEDIMENT REACHES 20% OF FENCE HEIGHT. REPLACE GEOTEXTILE AS NEEDED.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development
[Signature]
DATE: 4/23/20

Chief, Development Engineering Division
[Signature]
DATE: 4/30/20

PROJECT

MCWHORTER PROPERTY
PHASE: N/A
PARCEL NO.: 334

PLAT: 9800-9802
BLOCK NO.: 23
ZONE: B-2
TAX: 13
ELEC. DIST.: 4
CENSUS TR.: 24027604002

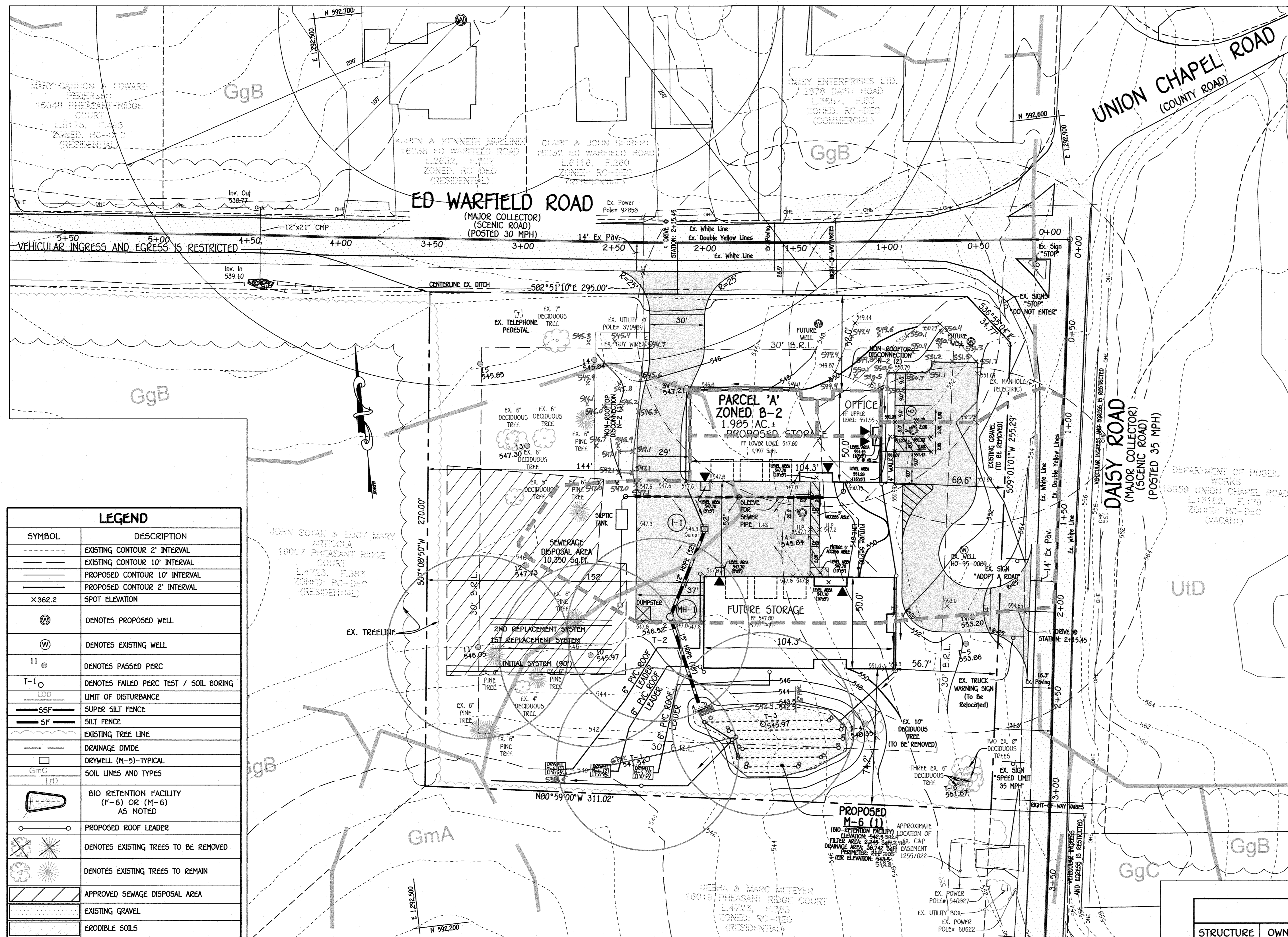
SEDIMENT EROSION CONTROL NOTES & DETAILS

MCWHORTER PROPERTY

WARFIELD'S GRANT SECTION 1, AREA 1
PARCEL 'A'
16031 ED WARFIELD ROAD
TAX MAP NO.: 13 GRID NO.: 23 PARCEL NO.: 334
ZONED B-2
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: APRIL, 2020
SHEET 4 OF 13

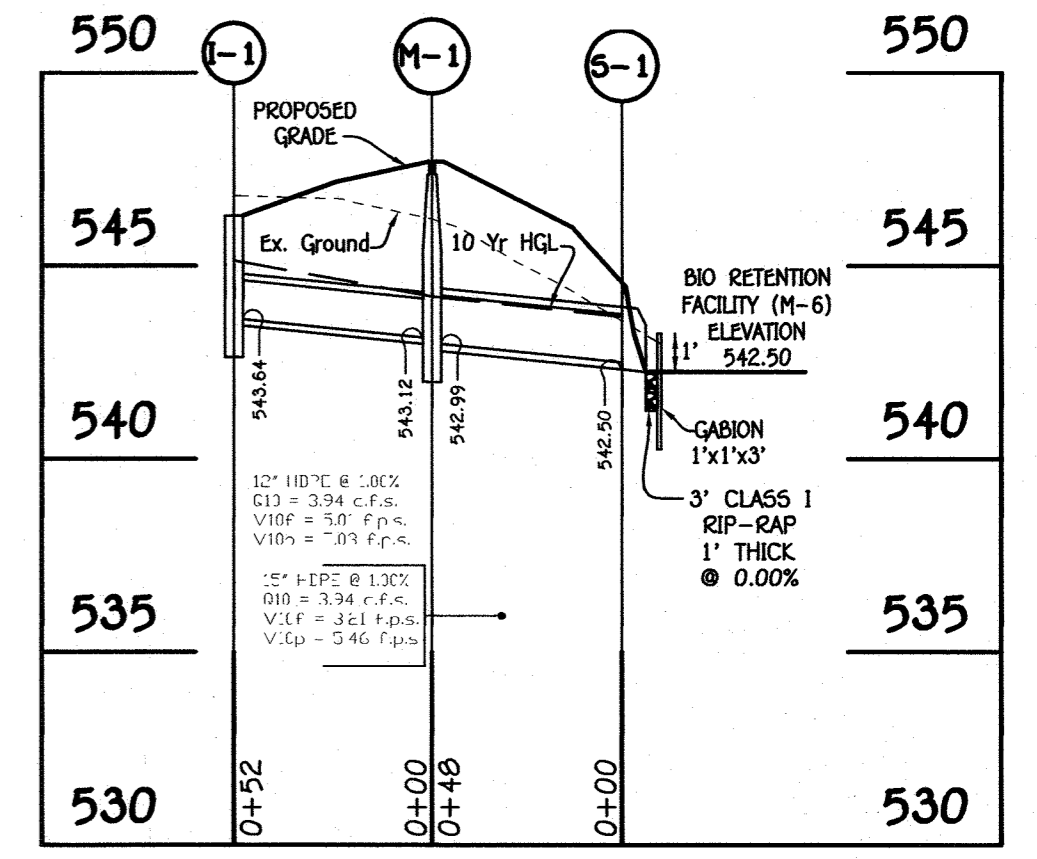
AS-BUILT, NOV. 2021

SOILS LEGEND			
SOIL	NAME	CLASS	KW
GgA	Glenn loam, 0 to 3 percent slopes	B	0.37
GgB	Glenn loam, 3 to 6 percent slopes	B	0.37
GmA	Glenn silt loam, 0 to 3 percent slopes	C	0.49



LEGEND	
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
x362.2	SPOT ELEVATION
⊙	DENOTES PROPOSED WELL
⊙	DENOTES EXISTING WELL
11 ⊙	DENOTES PASSED PERC
T-1 ⊙	DENOTES FAILED PERC TEST / SOIL BORING
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	SILT FENCE
---	EXISTING TREE LINE
---	DRAINAGE DIVIDE
---	DRYWELL (M-5)-TYPICAL
GmC	SOIL LINES AND TYPES
⊔	BIO RETENTION FACILITY (F-6) OR (M-6) AS NOTED
---	PROPOSED ROOF LEADER
⊗	DENOTES EXISTING TREES TO BE REMOVED
⊗	DENOTES EXISTING TREES TO REMAIN
---	APPROVED SEWAGE DISPOSAL AREA
---	EXISTING GRAVEL
---	ERODIBLE SOILS
▼	INGRESS ENTRANCE
▼	EGRESS EXIT
---	DENOTES EXISTING FOREST TO BE REMOVED

PLAN
SCALE: 1" = 30'



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

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.
DATE: 11/20/20

PIPE SCHEDULE		
SIZE	CLASS	LENGTH
12"	HOPE	52'
15"	HOPE	48'

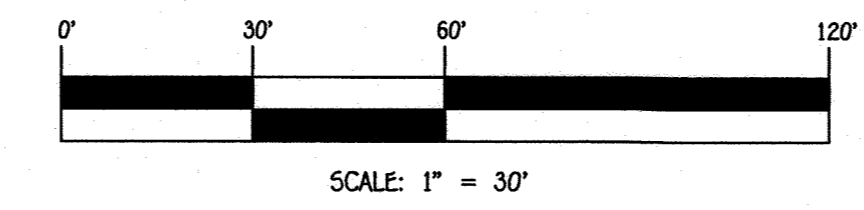
DRAINAGE AREA DATA				
DRAINAGE AREA	STRUCTURE NO.	AREA (AC.)	"C"	% IMP.
A	I-1	0.67	0.61	57

STRUCTURE SCHEDULE							
STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV IN	INV OUT	COORDINATES	TYPE	REMARKS
I-1	PRIVATE	546.30	-----	543.64 12"	N 592398.50 E 1292680.71	YARD INLET	D-4.14
M-1	PRIVATE	547.70	543.12 (I-1) 12"	542.99 15"	N 592353.01 E 1292656.45	4' DIA. MANHOLE	G-5.12
S-1	PRIVATE	544.50	542.50 (M-1) 15"	-----	N 592310.54 E 1292665.48	15" END SECTION	D-5.51

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
10072 BALTIMORE NATIONAL PLACE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2895



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
DATE: 5/21/20



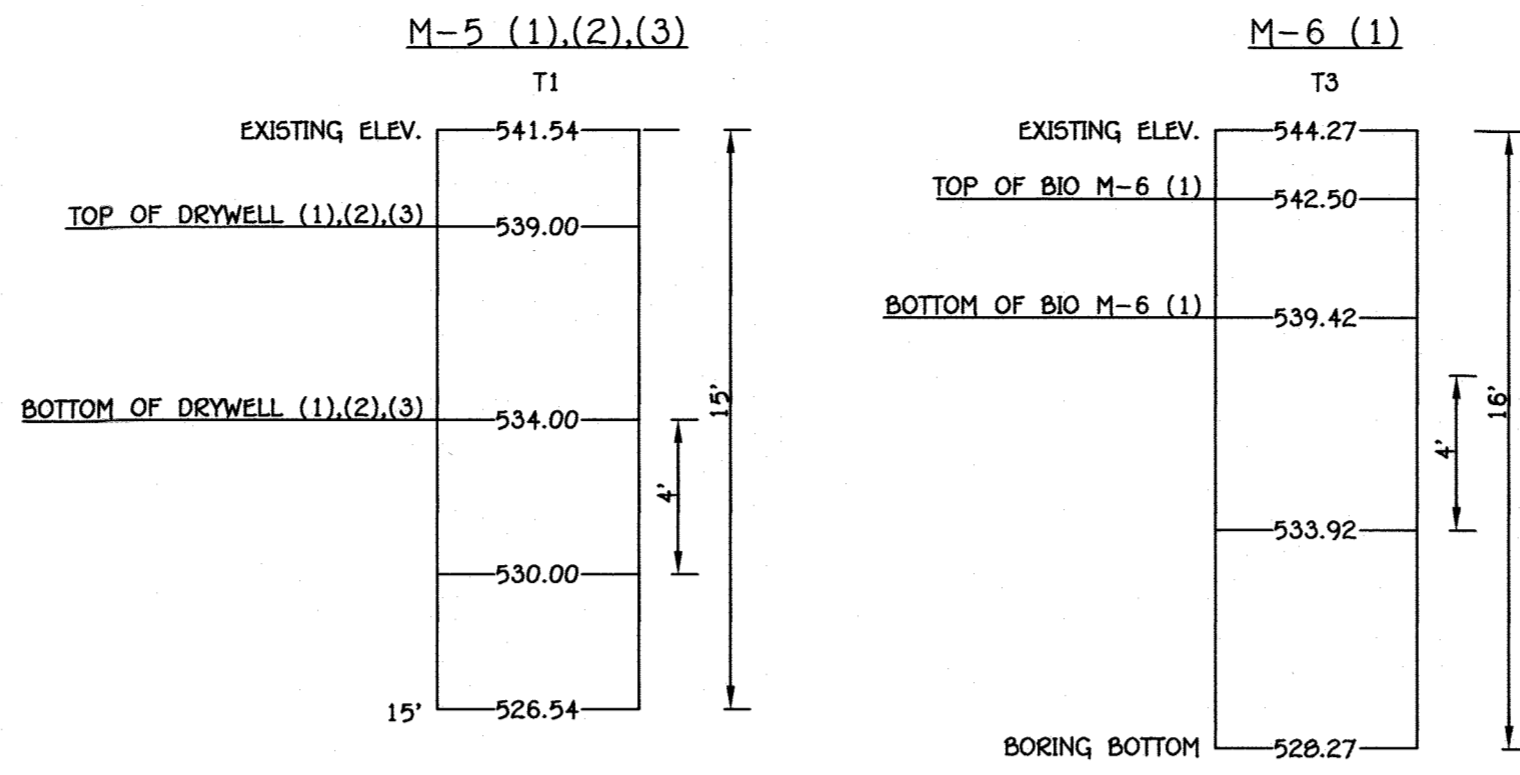
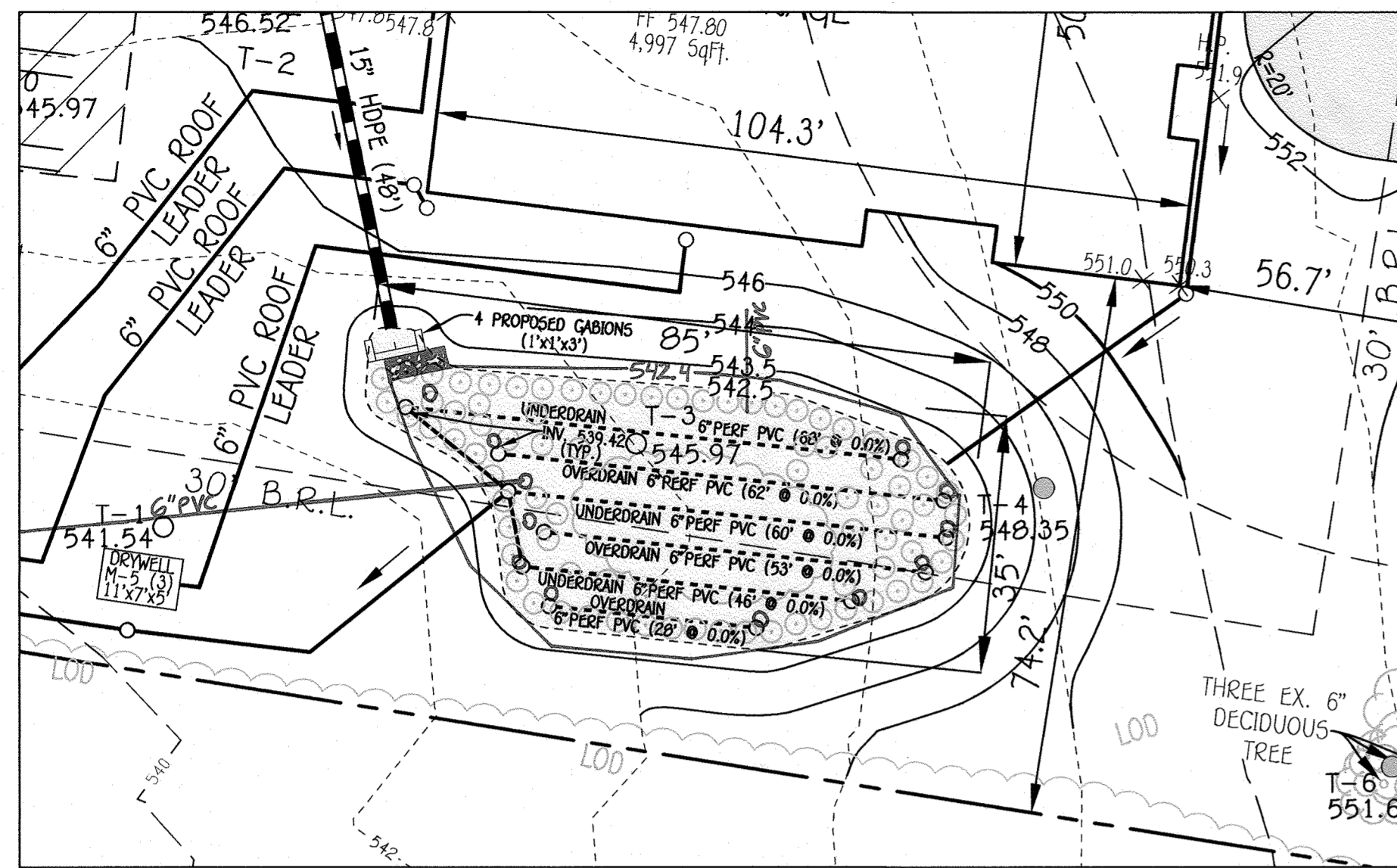
OWNER
DAISY CROSSROADS LLC
16135 ED WARFIELD ROAD
WOODBINE, MD 21797-7811

DEVELOPER
RYAN MCWHORTER
6951 REDBERRY ROAD
CLARKSVILLE, MD 21029
(410)-984-5813

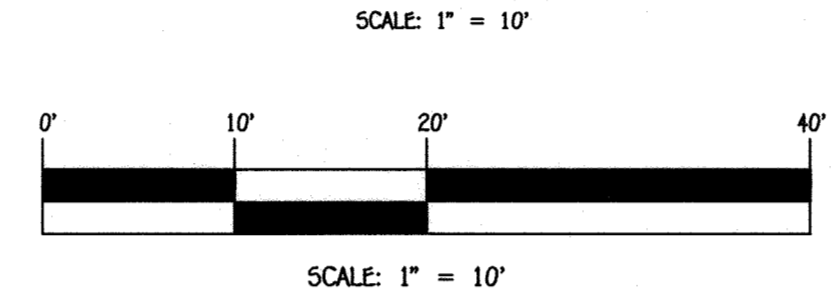
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development
Chief, Development Engineering Division
Director - Department of Planning and Zoning
PROJECT: MCWHORTER PROPERTY
PHASE: N/A
PARCEL NO.: 334

STORMDRAIN DRAINAGE AREA MAP
MCWHORTER PROPERTY
WARFIELD'S GRANT SECTION 1, AREA 1
PARCEL 'A'
16031 ED WARFIELD ROAD
TAX MAP NO.: 13 GRID NO.: 23 PARCEL NO.: 334
ZONED B-2
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: APRIL, 2020
SHEET 5 OF 13
SDP-20-012

AS-BUILT, NOV. 2021



STORMWATER MANAGEMENT BORING LOGS



FUTURE OPERATION & 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 INSURE 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 No.	AREA OF ROOF PER DRYWELL	VOLUME REQUIRED	VOLUME PROVIDED	L	W	D
1	1000 SQ.FT.	143 CU.FT.	154 CU.FT.	11'	7'	5'
2	1000 SQ.FT.	143 CU.FT.	154 CU.FT.	11'	7'	5'
3	1000 SQ.FT.	143 CU.FT.	154 CU.FT.	11'	7'	5'

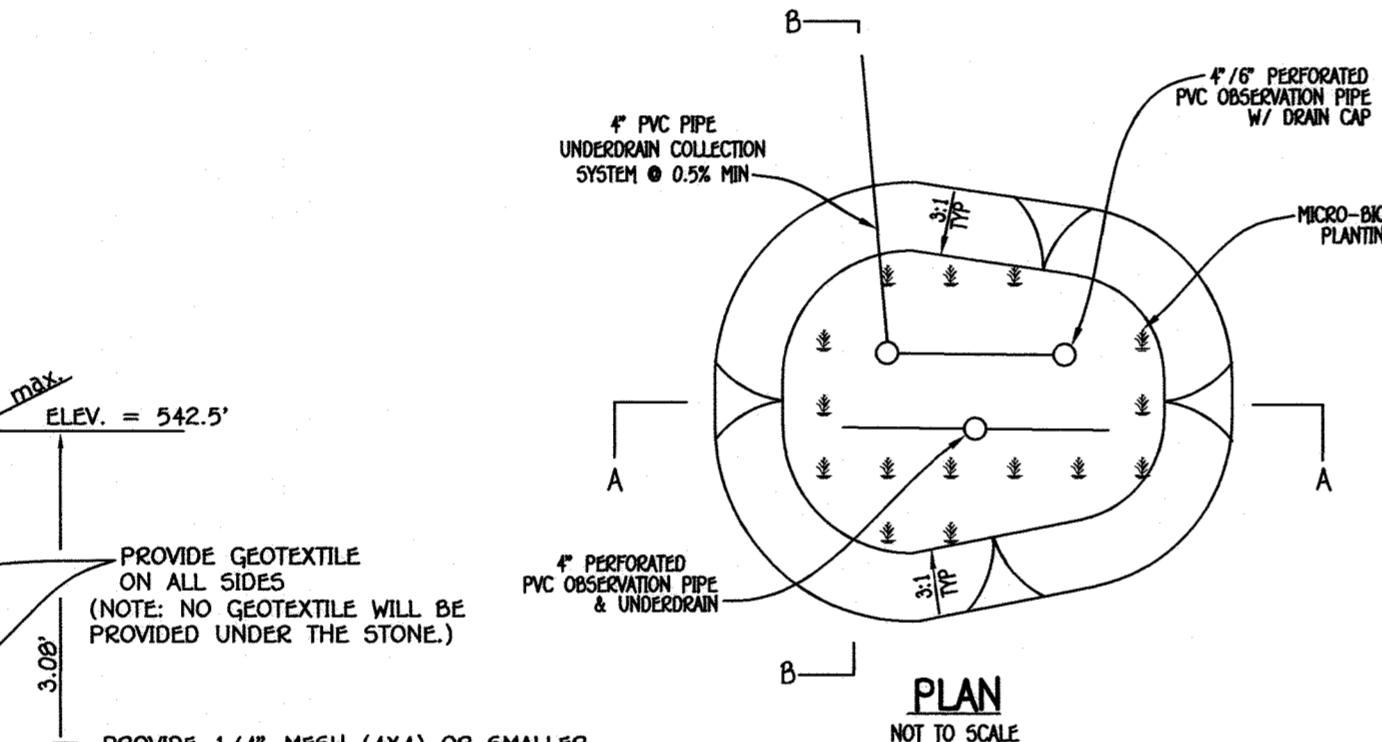
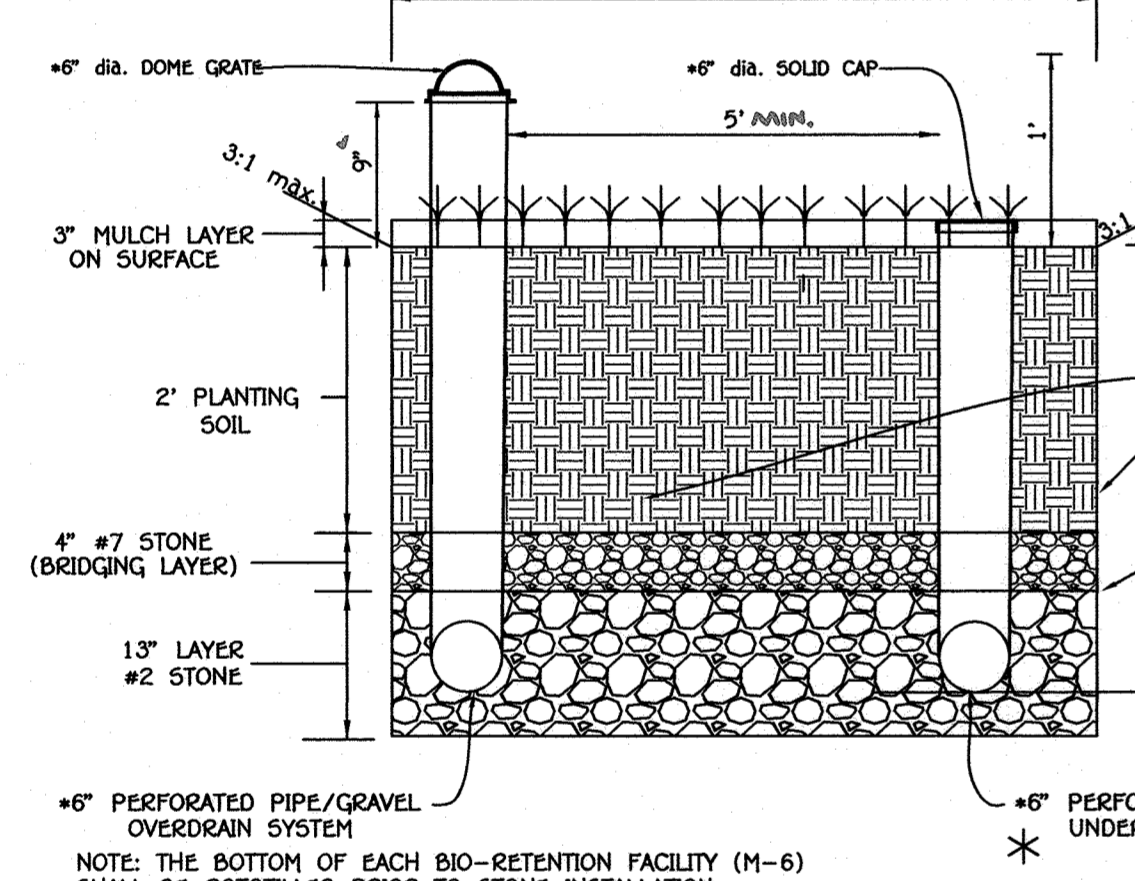
DRYWELLS NOT INSTALLED AS OF JANUARY 18, 2022

- SHRUBS**
- BANBERRY
 - SPICEBUSH
 - ARROWWOOD
 - WINTERBERRY
 - INKBERRY
 - WITCH HAZEL
 - BUTTERNUT
 - BUCKEYE
 - BOTTLEBRUSH
 - BUCKEYE
- ANY OF THE SHRUBS LISTED MAY BE USED

PLANT MATERIAL- BIO-RETENTION F-6 (12)

QUANTITY	NAME	MAXIMUM SPACING (FT.)
187 (561 sq.ft.)	GRASSES	36" o.c.
80	SHRUBS	36"-40" o.c.

- GRASS**
- SWITCHGRASS
 - HEAVY METAL SWITCHGRASS
- ANY OF THE GRASS LISTED MAY BE USED



TYPICAL SECTION - BIO-RETENTION FACILITY (F-6)

OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

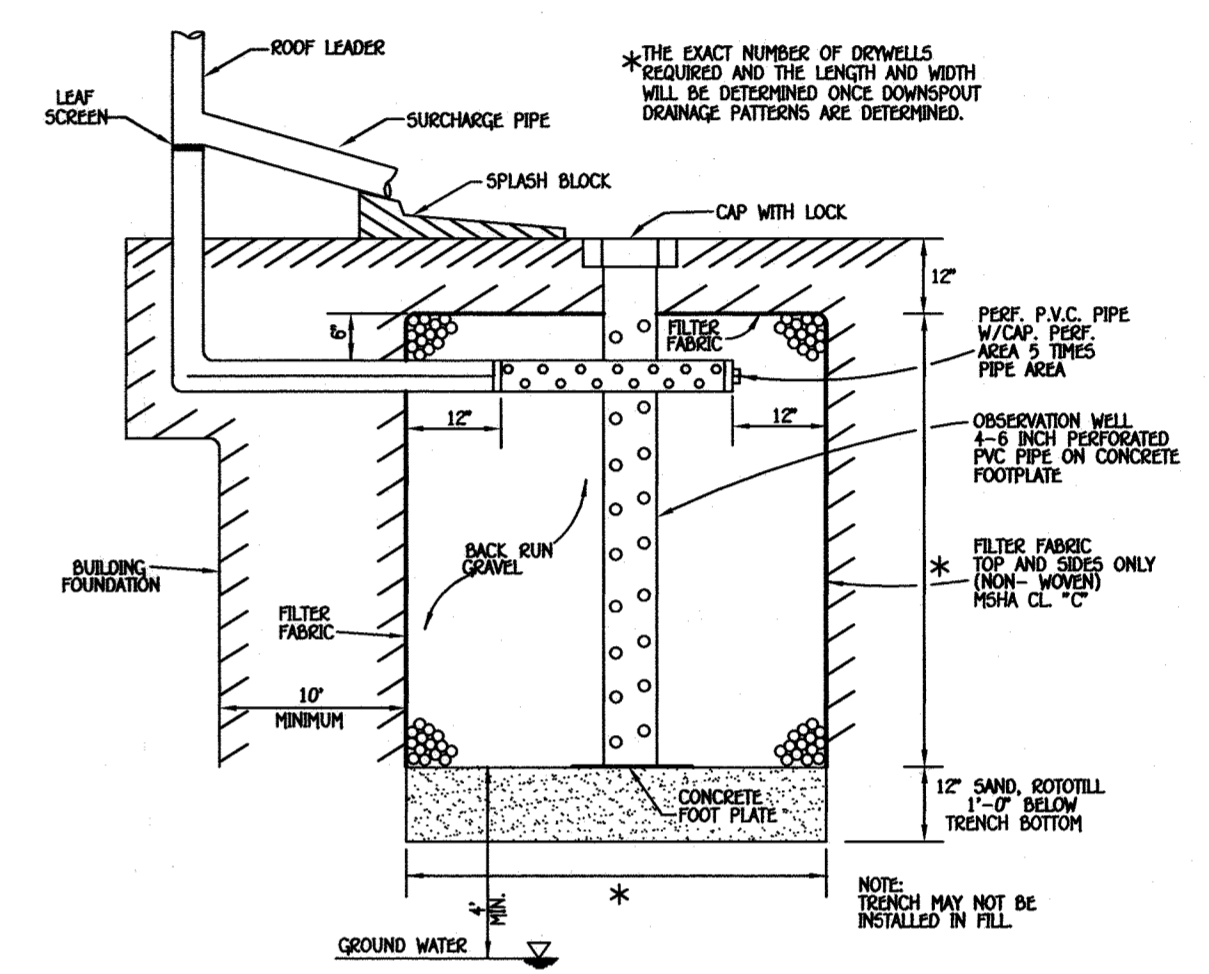
- A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE 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 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.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED, DISCONNECTION OF NON-ROOFTOP (N-2)

- 1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

Table B.4. Materials Specifications for Micro-Bioretenion, Rain Gardens & Landscape Infiltration

Material	Specification	Size	Notes
Planting soil	see Appendix A: Table A-4	n/a	plantings are site-specific
Planting soil (2' to 4' deep)	loamy sand 60-65% compost 35-40% or sandy loam 30% coarse sand 30% compost 40%		USDA soil types loamy sand or sandy loam; clay content <5%
Organic Content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum
Pea gravel diaphragm	pea gravel: ASTM-D-448	No. 8 or No. 9 (1/8" to 3/8")	
Curbin drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	No. 57 or No. Aggregate (3/8" to 3/4")	
Underdrain piping	F 756, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe: 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underdrain pipes. Perforated pipe shall be wrapped with 1/4 inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. S; f = 3500 psi at 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved site or local aggregate requires design drawings sealed and approved by a professional structural engineer; licensed in the State of Maryland - design to include meeting ACI Code 308.6.09; vertical loading (H-10 or H-20); allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Gneiss (AASHTO) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.



DRY WELL DETAIL (M-5)

NOT TO SCALE

FUTURE



AS-BUILT CERTIFICATION FOR SWM

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE REVIEWED THE "AS-BUILT" PLANS AND SPECIFICATIONS AND I AM SURE THAT THE FACILITY IS IN COMPLIANCE WITH THE "AS-BUILT" PLANS AND SPECIFICATIONS.

DATE: 11/19/21
 SIGNATURE: [Signature]
 TITLE: P.E.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PARK
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2995



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.

DATE: 5/21/20
 SIGNATURE: [Signature]
 TITLE: FRANK MANALANSAN II

OWNER
 DAISY CROSSROADS LLC
 16135 ED WARFIELD ROAD
 WOODBINE, MD 21797-7811

DEVELOPER
 RYAN MCWHORTER
 6851 REDBERRY ROAD
 CLARKSVILLE, MD 21029
 (410) 984-5813

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: [Signature] Date: 9/29/20

Chief, Development Engineering Division: [Signature] Date: 11/30/20

Director - Department of Planning and Zoning: [Signature] Date: 11/30/20

PROJECT	PHASE	PARCEL NO.
MCWHORTER PROPERTY	N/A	334

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
9800-9802	23	B-2	13	4	24027604002

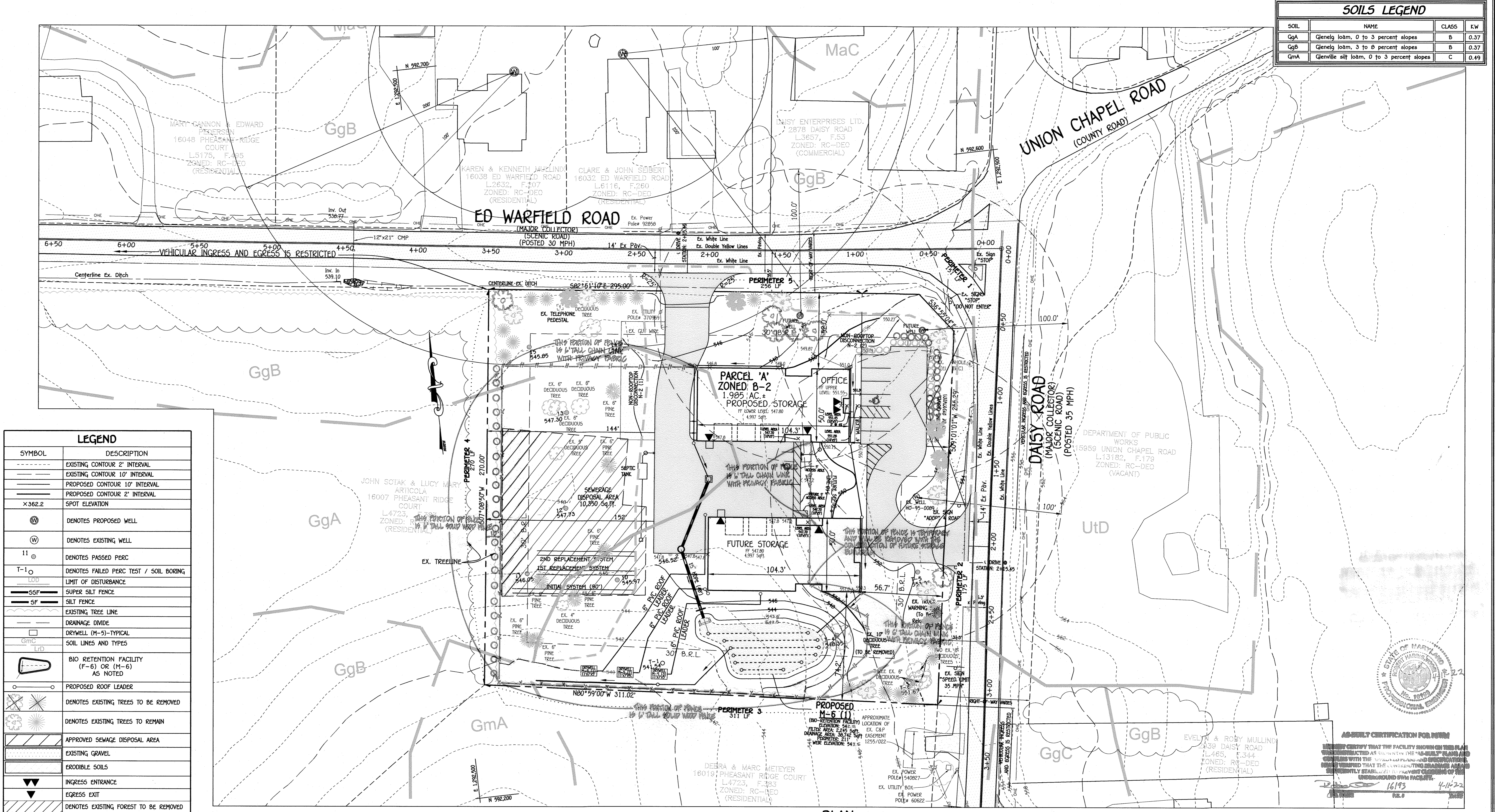
PREVIOUS HOWARD COUNTY FILES:
 ECP-19-082, F-90-56

SWM NOTES, DETAILS & BORING LOGS

MCWHORTER PROPERTY
 WARFIELD'S GRANT SECTION 1, AREA 1
 PARCEL 'A'
 16031 ED WARFIELD ROAD
 TAX MAP NO.: 13 GRID NO.: 23 PARCEL NO.: 334
 ZONED B-2
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: APRIL, 2020
 SHEET 6 OF 13

AS-BUILT, NOV. 2021

SOILS LEGEND			
SOIL	NAME	CLASS	KW
GgA	Glenelig loam, 0 to 3 percent slopes	B	0.37
GgB	Glenelig loam, 3 to 6 percent slopes	B	0.37
GmA	Glenville silt loam, 0 to 3 percent slopes	C	0.49



LEGEND	
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
x.362.2	SPOT ELEVATION
⊙	DENOTES PROPOSED WELL
⊙	DENOTES EXISTING WELL
⊙	DENOTES PASSED PERC
T-O	DENOTES FAILED PERC TEST / SOIL BORING
L/D	LIMIT OF DISTURBANCE
SSF	SUPER SILT FENCE
SF	SILT FENCE
---	EXISTING TREE LINE
---	DRAINAGE DIVIDE
□	DRYWELL (M-5)-TYPICAL
GmC	SOIL LINES AND TYPES
L/D	BIO RETENTION FACILITY (F-6) OR (M-6) AS NOTED
---	PROPOSED ROOF LEADER
✕	DENOTES EXISTING TREES TO BE REMOVED
☼	DENOTES EXISTING TREES TO REMAIN
▨	APPROVED SEWAGE DISPOSAL AREA
▨	EXISTING GRAVEL
▨	ERODIBLE SOILS
▼	INGRESS ENTRANCE
▲	EGRESS EXIT
▨	DENOTES EXISTING FOREST TO BE REMOVED

PLAN
SCALE: 1" = 30'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK • 10772 BALDORNE NATIONAL PIKE
 ELLESMERE CITY, MARYLAND 21042
 (410) 461-2895

NO.	REVISION	DATE



LANDSCAPE DEVELOPER'S CERTIFICATE
 I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion a letter of landscape installation accompanied by an executed one year guarantee of plant materials will be submitted to the Department of Planning and Zoning.

Frank Manalangan II
 Name: Frank Manalangan II Date: 4/21/20

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.

Frank Manalangan II
 Name: Frank Manalangan II Date: 4/21/20

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[Signature]
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Director - Department of Planning and Zoning
[Signature]
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9800-9802	23	B-2	13	4	24027604002

PREVIOUS HOWARD COUNTY FILES:
 ECP-19-062, F-90-56

LANDSCAPE PLAN
MCWHORTER PROPERTY
 WARFIELD'S GRANT SECTION 1, AREA 1
 PARCEL 'A'
 16031 ED WARFIELD ROAD
 TAX MAP NO.: 13 GRID NO.: 23 PARCEL NO.: 334
 ZONED B-2
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: APRIL, 2020
 SHEET 10 OF 13

NO AS-BUILT INFORMATION ON THIS SHEET

AS-BUILT CERTIFICATION FOR 16193
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND CONFORMS WITH THE SPECIFICATIONS AND OPERATIONAL REQUIREMENTS OF THE SUBMITTING AGENCY AND THAT THE CONSTRUCTION OF THE FACILITY WAS COMPLETED ON THE DATE SHOWN ON THE "AS-BUILT" PLANS.

[Signature] 16193 4-14-22
 RE: 16193

AS-BUILT, NOV. 2021

I:\6000060541\Engineering\DWG\SDP-C-10_11_Landscape Detail Plan - C_10_Landscape Plan_11

PERIMETER	P-1	P-2	P-3	P-4	P-5
CATEGORY	EDGE OF PARKING TO EDGE OF PARKING	COMMERCIAL TO PUBLIC ROAD	COMMERCIAL TO RESIDENTIAL LOT	COMMERCIAL TO RESIDENTIAL LOT	COMMERCIAL TO PUBLIC ROAD
LANDSCAPE TYPE	E	B	C	C	B
LENGTH FEET OF PERIMETER	151 L.F.	175 L.F.	311 L.F. (-222) = 89 L.F.	210 L.F. (-217) = 93 L.F.	256 L.F.
NUMBER OF PLANTS REQUIRED					
SHADE TREES	(151' / 40' = 3.775) = 4	(175' / 50' = 3.50) = 4	(89' / 40' = 2.225) = 3	(93' / 40' = 2.325) = 3	(256' / 50' = 5.12) = 6
EVERGREEN TREES	(151' / 4' = 37.75) = 38	(175' / 4' = 43.75) = 44	(89' / 4' = 22.25) = 23	(93' / 4' = 23.25) = 24	(256' / 4' = 64) = 64
SHRUBS					
CREDIT FOR WALL, FENCE OR BORN	0	0	YES 222 L.F. OF FENCE	YES 217 L.F. OF FENCE	0
CREDIT FOR EXISTING VEGETATION	0	0	0	0	0
SHADE TREES	0	0	0	0	0
EVERGREEN TREES	0	0	0	0	0
NUMBER OF PLANTS PROVIDED					
SHADE TREES	4	4	3	3	6
EVERGREEN TREES	38	44	23	24	64
SHRUBS (1:0.1 SUBSTITUTION)	38	44	23	24	64

NOTES

- THE PERIMETER LANDSCAPE OBLIGATION IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. A LANDSCAPE SURETY IN THE AMOUNT OF \$17,450.00 BASED ON (10) SHADE TREES @ \$300/SHADE TREE, (10) EVERGREEN TREES @ \$150/EVERGREEN TREE, AND (60) SHRUBS @ \$30/SHRUB AND (160) LANDSCAPE PERCENT OF PLANTS @ \$10/LANDSCAPE PERCENT SHALL BE COLLECTED AS PART OF THE GENERAL PERMIT REQUIREMENT.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERRIES, FENCES AND WALLS. ALL 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.
- FOR ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH CREDIT IS GIVEN, BE REMOVED OR DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR IF THE TREE IS LISTED AS A PROHIBITED OR INVASIVE SPECIES ON THE DPZ TREE LIST IT SHOULD BE REPLACED WITH A RECOMMENDED TREE SPECIES WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE LANDSCAPE MANUAL.

PLANTING SPECIFICATIONS

PLANTS, RELATED MATERIAL AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN.

ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED, HAVE A VIGOROUS ROOT SYSTEM, AND SHALL CONFORM TO THE SPECIES, SIZE, ROOT AND SHAPE SHOWN ON THE PLANT LIST AND THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN) STANDARDS. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, FREE FROM DEFECTS, DECAY, DISTURBING ROOTS, SUN SCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BORERS AND ALL FORMS OF INSECT INFESTATIONS OR OBJECTIONABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FRESHLY DUG; NO HEALED-IN PLANTS FROM COLD STORAGE WILL BE ACCEPTED.

UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATION SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS", (HEREINAFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECT, LATEST EDITION, INCLUDING ALL AGENDA.

CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES. CONTRACTOR'S ATTENTION IS DIRECTED TO THE MAINTENANCE REQUIREMENTS FOUND WITHIN THE ONE YEAR SPECIFICATIONS INCLUDING WATERING AND REPLACEMENT OF SPECIFIED PLANT MATERIAL.

BID SHALL BE BASED ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS.

ALL SHRUBS SHALL BE PLANTED IN CONTINUOUS TRENCHES OR PREPARED PLANTING BEDS AND MULCHED WITH COMPOSTED HARDWOOD MULCH AS DETAILS AND SPECIFIED EXCEPT WHERE NOTED ON PLANS.

POSITIVE DRAINAGE SHALL BE MAINTAINED IN PLANTING BEDS 2 PERCENT SLOPE).

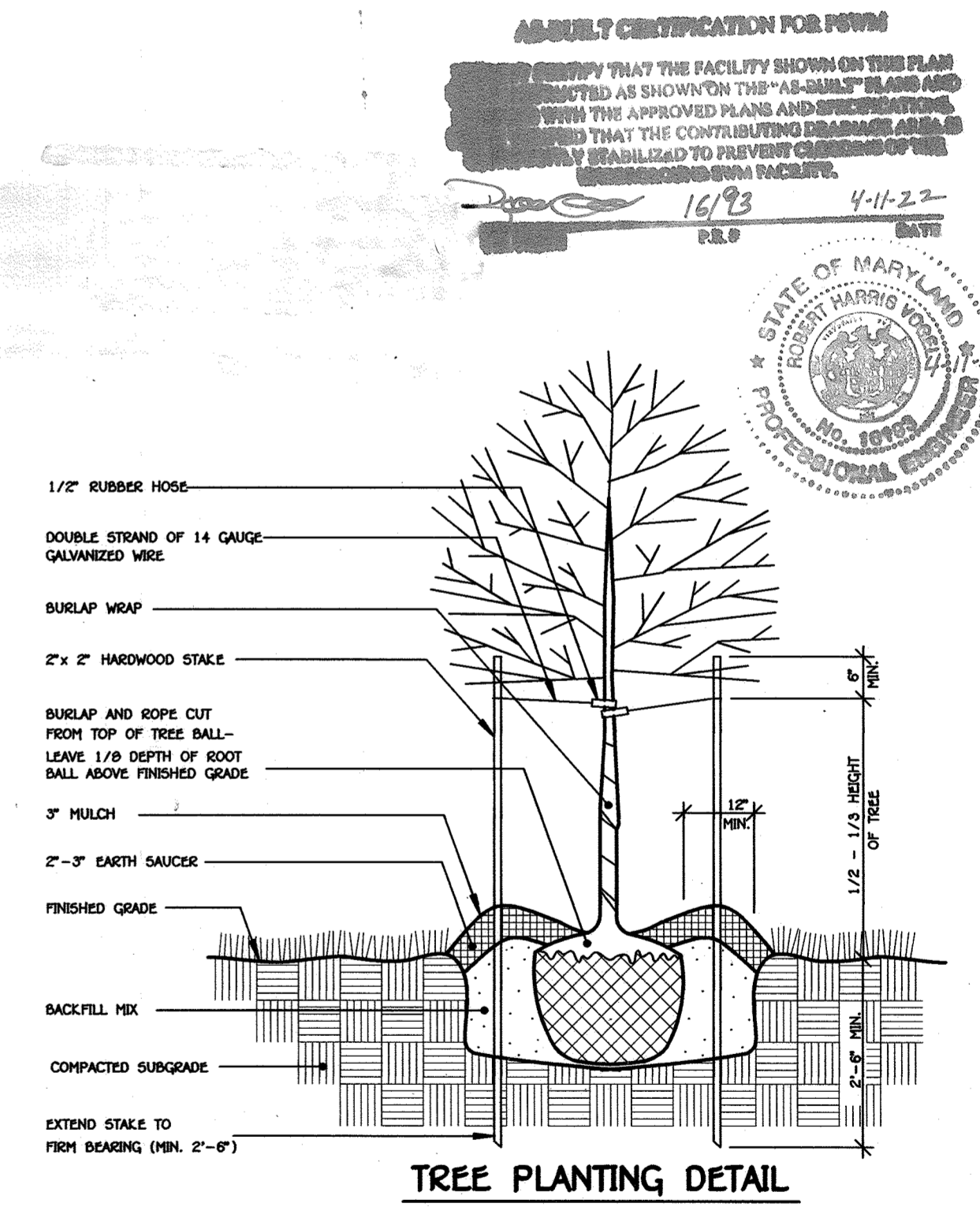
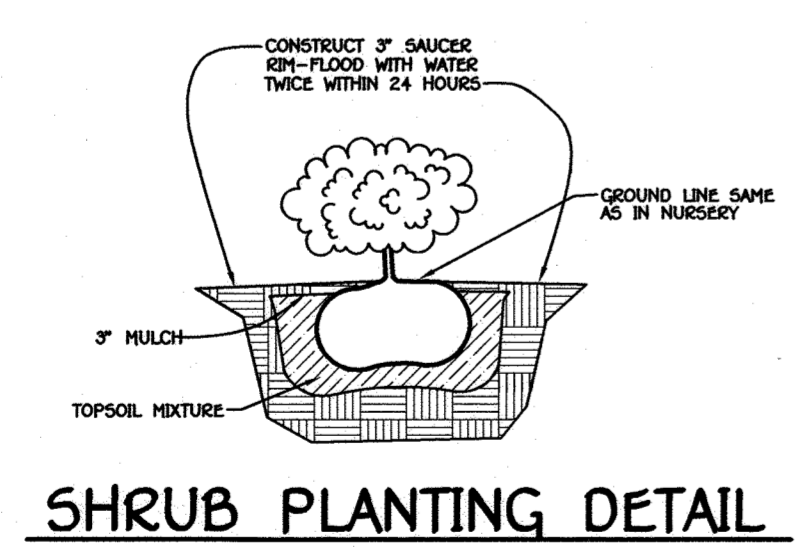
PLANTING MIX SHALL BE AS FOLLOWS: DECIDUOUS PLANTS - TWO PARTS TOPSOIL, ONE PART WELL-ROTTED COW OR HORSE MANURE. ADD 3 LBS. OF STANDARD FERTILIZER PER CUBIC YARD OF PLANTING MIX. EVERGREEN PLANTS - TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL. ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX. TOPSOIL SHALL CONFORM TO THE LANDSCAPE GUIDELINES.

WEED CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL. CAUTION: BE SURE TO CAREFULLY CHECK THE CHEMICAL USED TO ASSURE ITS ADAPTABILITY TO THE SPECIFIC GROUND COVER TO BE TREATED.

ALL AREAS WITHIN CONTRACT LIMITS DISTURBED DURING OR PRIOR TO CONSTRUCTION NOT DESIGNATED TO RECEIVE PLANTS AND MULCH SHALL BE FINE GRADED AND SEEDED.

LANDSCAPING PLANT LIST				
SYMBOL	QUANTITY	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
	11	ACER RUBRUM 'OCTOBER GLORY' RED MAPLE	2 1/2" - 3" CAL.	
	7	ACER SACCHARUM SUGAR MAPLE	2 1/2" - 3" CAL.	
	60	CLETHRA ALNIFOLIA SUMMERSWEET CLETHRA	2 1/2" - 3" HGT.	
	10	TRILIA PIGATA/GUANT ACROBOLITES 'GREEN GLAZIER'	6" - 8" HGT.	

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
X.362.2	SPOT ELEVATION
W	DENOTES PROPOSED WELL
W	DENOTES EXISTING WELL
11	DENOTES PASSED PERC
T-1	DENOTES FAILED PERC TEST / SOIL BORING
LOD	LIMIT OF DISTURBANCE
SSF	SUPER SILT FENCE
SF	SILT FENCE
---	EXISTING TREE LINE
---	DRAINAGE DIVIDE
GmC	DRYWELL (M-5)-TYPICAL
LTD	SOIL LINES AND TYPES
	BIO RETENTION FACILITY (F-6) OR (M-6) AS NOTED
o	PROPOSED ROOF LEADER
	DENOTES EXISTING TREES TO BE REMOVED
	DENOTES EXISTING TREES TO REMAIN
---	APPROVED SEWAGE DISPOSAL AREA
---	EXISTING GRAVEL
---	ERODIBLE SOILS
▼	INGRESS ENTRANCE
▼	EGRESS EXIT
---	DENOTES EXISTING FOREST TO BE REMOVED



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 CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS
 10720 BALTIMORE NATIONAL PARK
 ELICOTT CITY, MARYLAND 21042
 (410) 481-2895



LANDSCAPE DEVELOPER'S CERTIFICATE
 I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion a letter of landscape installation accompanied by an executed one year guarantee of plant materials will be submitted to the Department of Planning and Zoning.

Frank Manalansan II
 Name: Frank Manalansan II Date: 5/21/20

PROFESSIONAL CERTIFICATION
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Frank Manalansan II
 Name: Frank Manalansan II Date: 5/21/20

0' 30' 60' 120'
 SCALE: 1" = 30'

OWNER
 DAISY CROSSROADS LLC
 16135 ED WARFIELD ROAD
 WOODBINE, MD 21797-7011

DEVELOPER
 RYAN MCWHORTER
 6951 REDBERRY ROAD
 CLARKSVILLE, MD 21029
 (410)-984-5613

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development
 Date: 4-29-20

Chief, Development Engineering Division
 Date: 11-30-20

Director - Department of Planning and Zoning

PROJECT: MCWHORTER PROPERTY
 PHASE: N/A
 PARCEL NO.: 334

PLAT: 9800-9802
 BLOCK NO.: 23
 ZONE: B-2
 TAX/ZONE: 13
 ELEC. DIST.: 4
 CENSUS TR.: 24027604002

PREVIOUS HOWARD COUNTY FILES:
 ECP-19-082, F-90-56

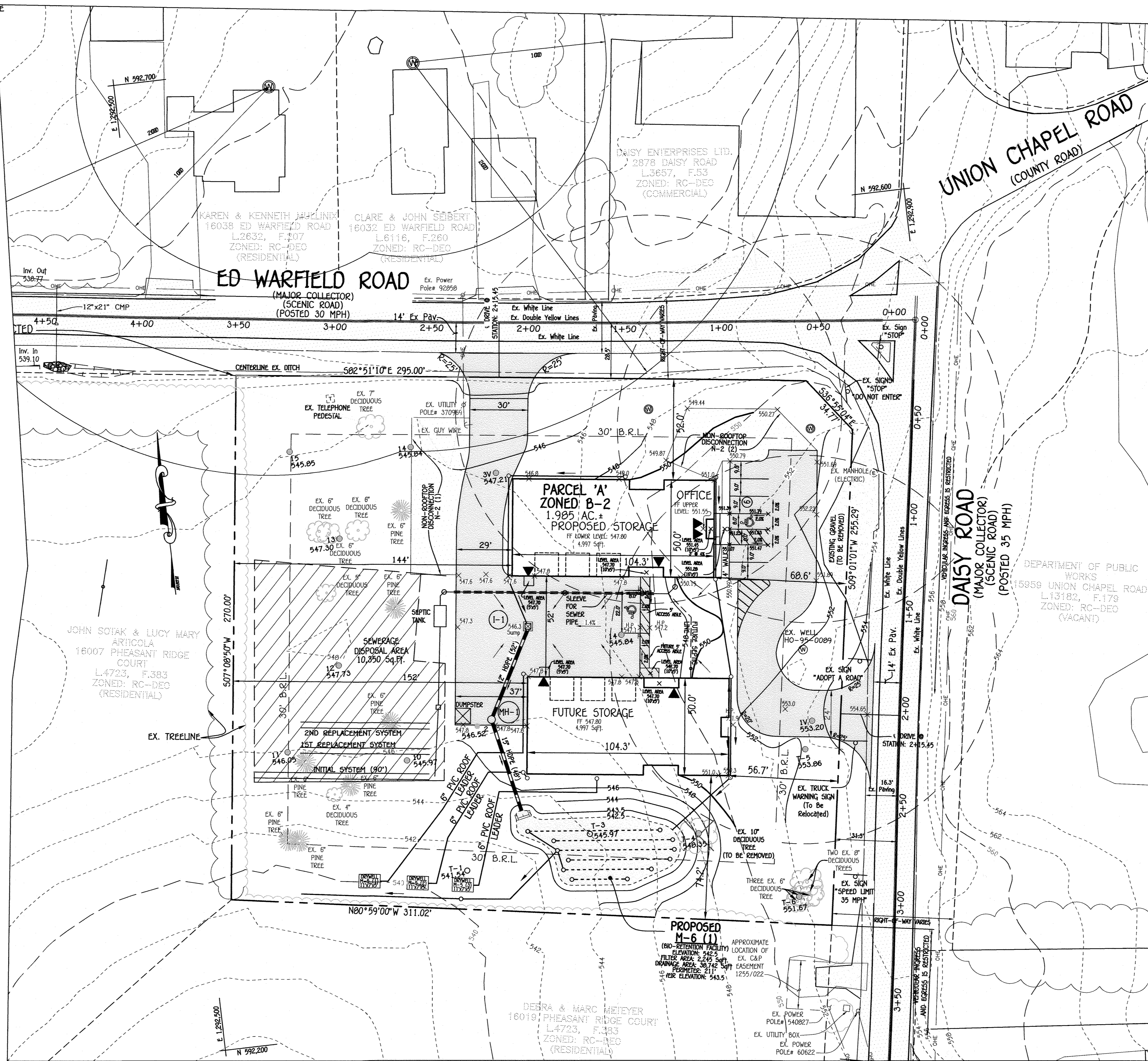
LANDSCAPE NOTES & DETAIL PLAN

MCWHORTER PROPERTY
 WARFIELD'S GRANT SECTION 1, AREA 1
 PARCEL 'A'
 16031 ED WARFIELD ROAD
 TAX MAP NO.: 13 GRID NO.: 23 PARCEL NO.: 334
 ZONED B-2
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: APRIL, 2020
 SHEET 11 OF 13

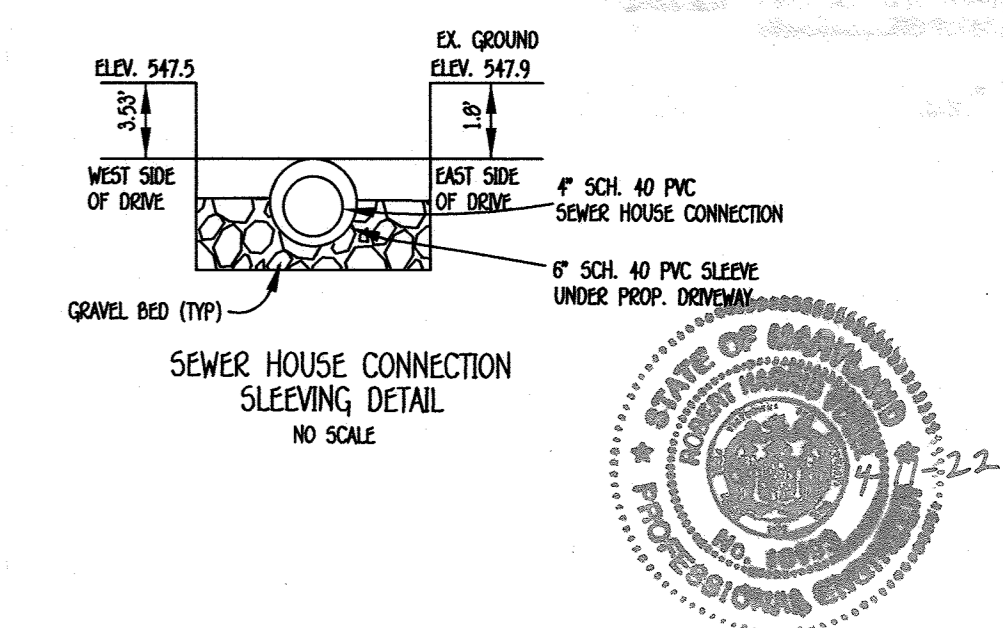
50P-20-012

ASBUILT, NOV. 2021

1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL HO-95-0089 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



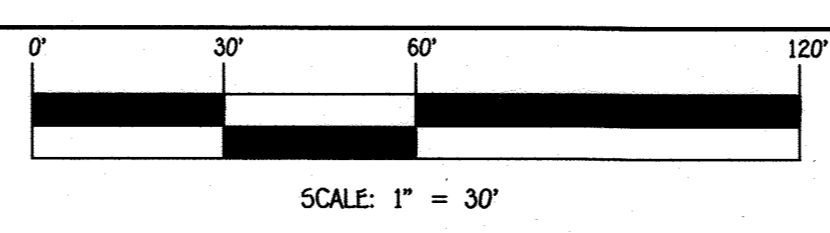
LEGEND	
SYMBOL	DESCRIPTION
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---	ERODIBLE SOILS
▼	INGRESS ENTRANCE
▲	EGRESS EXIT
⊖	DENOTES FAILED PERC TEST / SOIL BORING



AS-BUILT CERTIFICATION FOR SEWER
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THESE PLANS WAS CONSTRUCTED AS SHOWN ON THESE AS-BUILT PLANS AND IS IN ACCORDANCE WITH THE APPLICABLE PLANS AND REGULATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS ACCURATELY STABILIZED TO PREVENT OF UNDESIRABLE SOIL FACILITY.
 16193 4-14-22
 P.E.#

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER _____ DATE: 11/20/2020

PLAN
 SCALE: 1" = 30'



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SOURCE OFFICE PARK 10722 BALTIMORE NATIONAL PIKE
 CLUETT CITY, MARYLAND 21042
 (410) 461-2995



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
 Frank Mahalansan II 5/21/20
 DATE

OWNER
 DAISY CROSSROADS LLC
 18135 ED WARFIELD ROAD
 WOODBINE, MD 21797-7811

DEVELOPER
 RYAN MCWHORTER
 6891 REDBERRY ROAD
 CLARKSVILLE, MD 21029
 (410)-984-5813

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development _____ Date: 9-29-20
 Chief, Development Engineering Division JP _____ Date: 11-30-20
 Director - Department of Planning and Zoning _____ Date: _____

PROJECT	PHASE	PARCEL NO.
MCWHORTER PROPERTY	N/A	334
PLAT	BLOCK NO.	ZONE
9800-9802	23	B-2
TAX/ZONE	ELEC. DIST.	CENSUS TR.
13	4	24027604002

PREVIOUS HOWARD COUNTY FILES:
 ECP-19-062, F-95-56

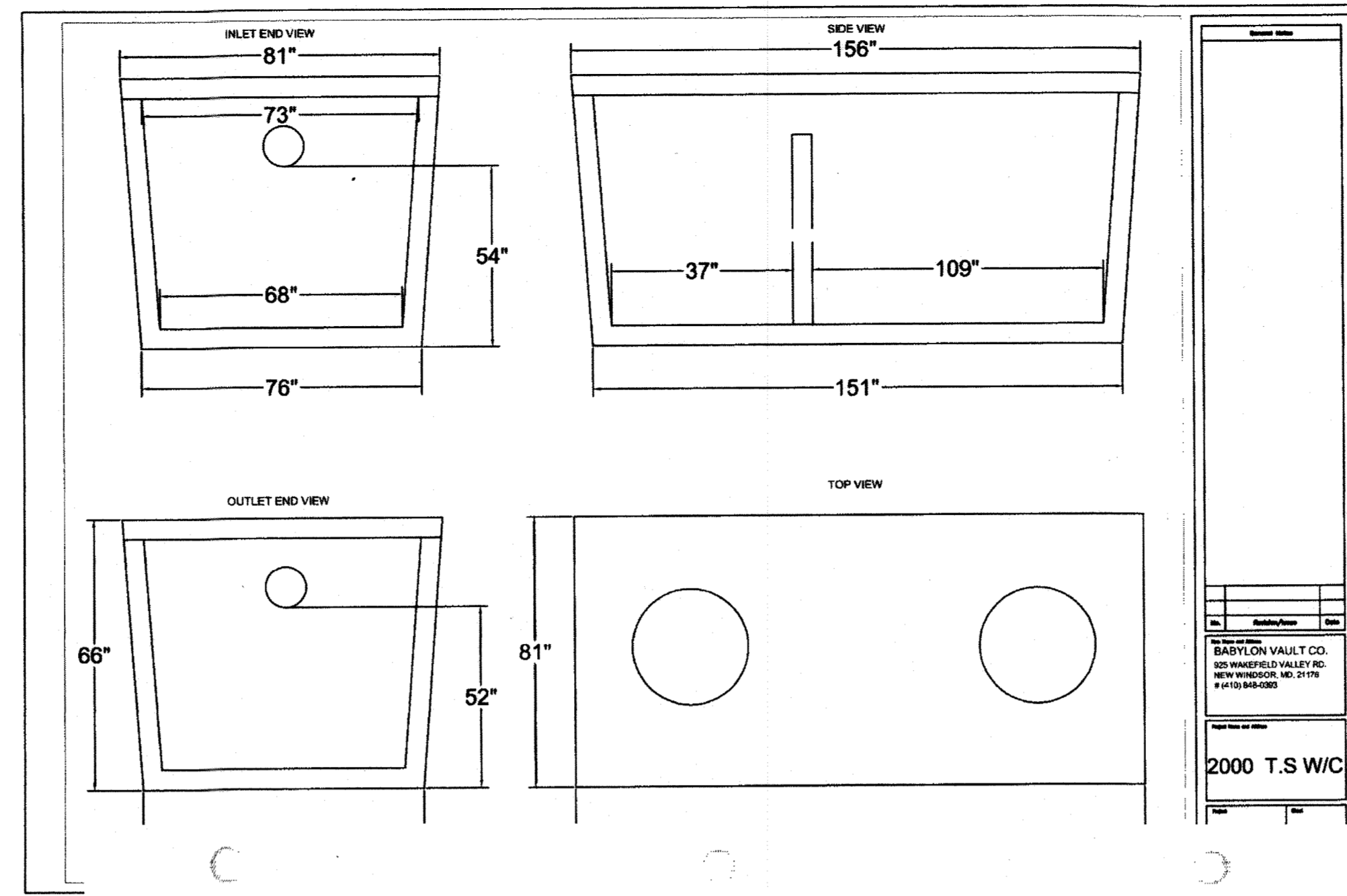
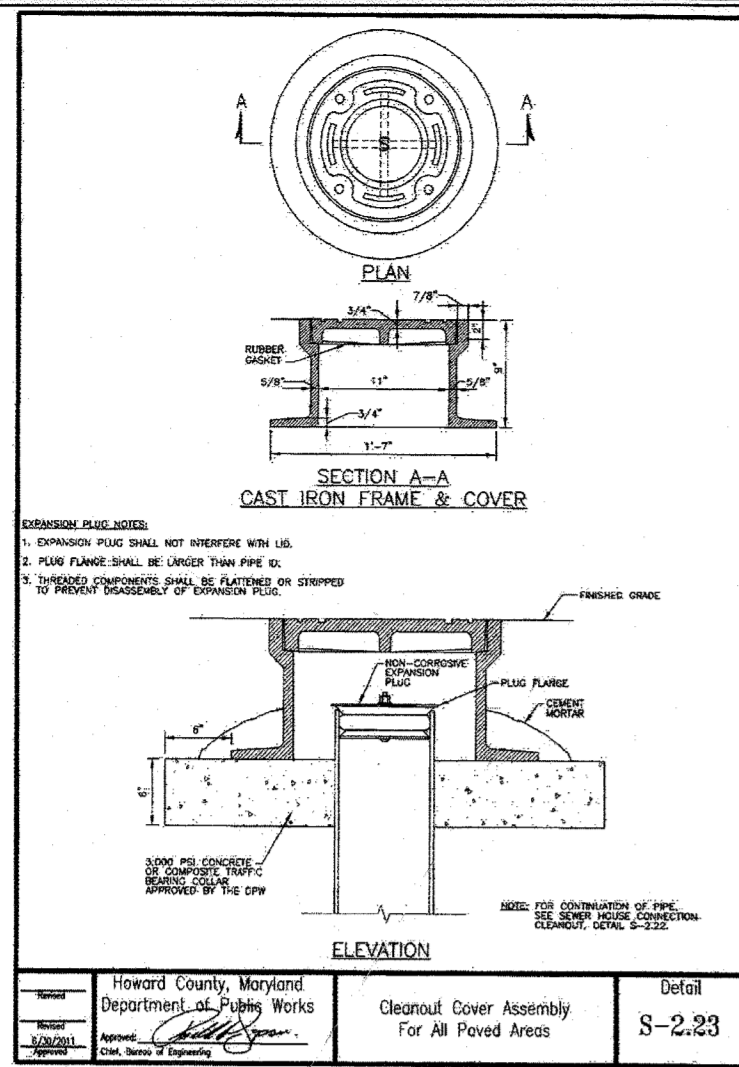
NO AS-BUILT INFORMATION ON THIS SHEET

SEPTIC INSTALL PLAN

MCWHORTER PROPERTY
 WARFIELD'S GRANT SECTION 1, AREA 1
 PARCEL 'A'
 16031 ED WARFIELD ROAD
 TAX MAP NO.: 13 GRID NO.: 23 PARCEL NO.: 334
 ZONED B-2
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: APRIL, 2020
 SHEET 12 OF 13

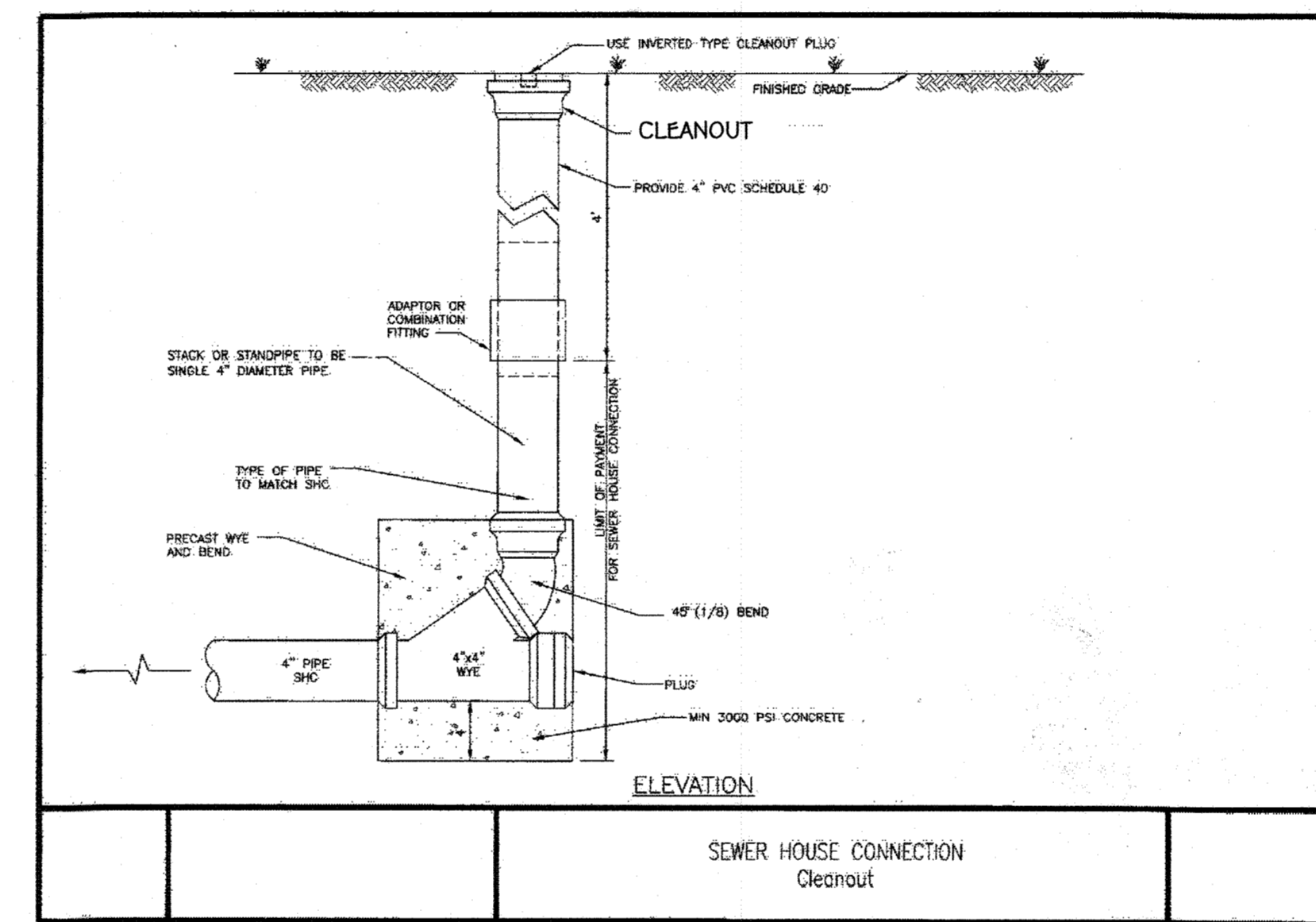
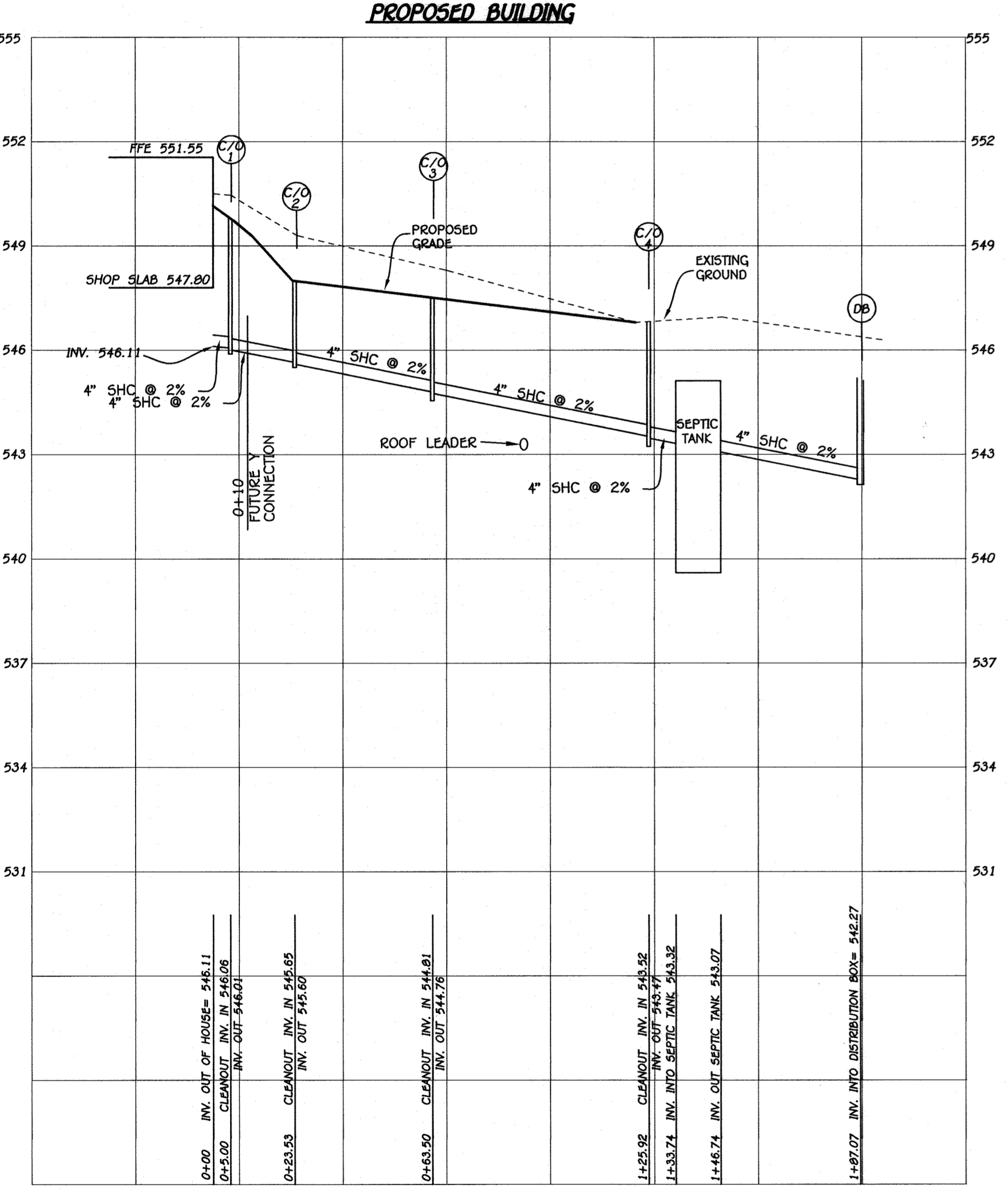
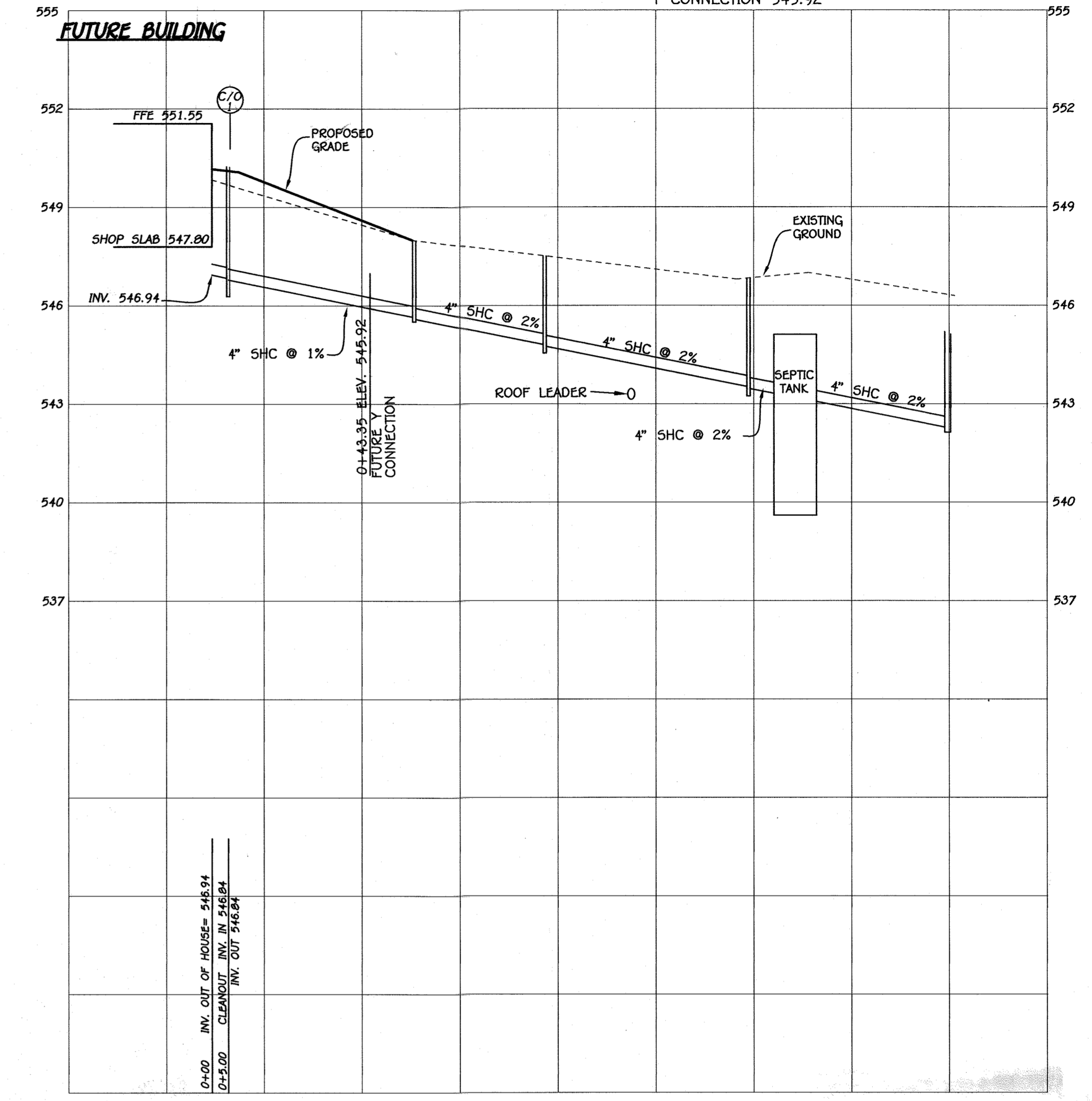
SDP-20-012

AS-BUILT, NOV. 2021



2000 T.S.W.C.

FFE 551.55
 SHOP FLOOR 547.80
 INV. OUT OF BUILDING = 546.5
 PROP. GROUND AT CLEANOUT #1 = 550.3
 INV. INTO CLEANOUT = 546.40
 INV. OUT OF CLEANOUT = 546.35
 Y CONNECTION 545.92



FFE 551.55
 SHOP FLOOR 547.80
 INV. OUT OF BUILDING = 546.11
 PROP. GROUND AT CLEANOUT #1 = 550.3
 INV. INTO CLEANOUT = 546.06
 INV. OUT OF CLEANOUT = 546.01
 FUTURE Y CONNECTION 545.92
 PROP. GROUND AT CLEANOUT #2 = 548.3
 PROP. INTO CLEANOUT = 545.65
 INV. OUT OF CLEANOUT = 545.60
 PROP. GROUND AT CLEANOUT #3 = 547.6
 INV. INTO CLEANOUT = 544.81
 INV. OUT OF CLEANOUT = 544.76
 PROP. GROUND AT CLEANOUT #4 = 546.8
 INV. INTO CLEANOUT = 543.52
 INV. OUT OF CLEANOUT = 543.47
 EX. GROUND AT SEPTIC TANK = 547.0
 PROP. GRADE ABOVE SEPTIC TANK = 546.7
 TOP OF SEPTIC TANK = 545.12
 INV. INTO SEPTIC TANK = 543.32
 INV. OUT OF SEPTIC TANK = 543.07
 EX. GROUND AT DISTRIBUTION BOX = 546.3
 INV. INTO DISTRIBUTION BOX = 542.27
 INV. OUT OF DISTRIBUTION BOX = 542.17

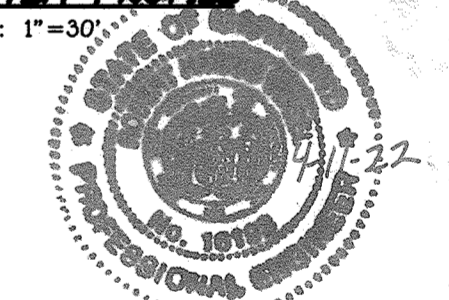
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER
 DATE: 11/30/2020

NO AS-BUILT INFORMATION ON THIS SHEET

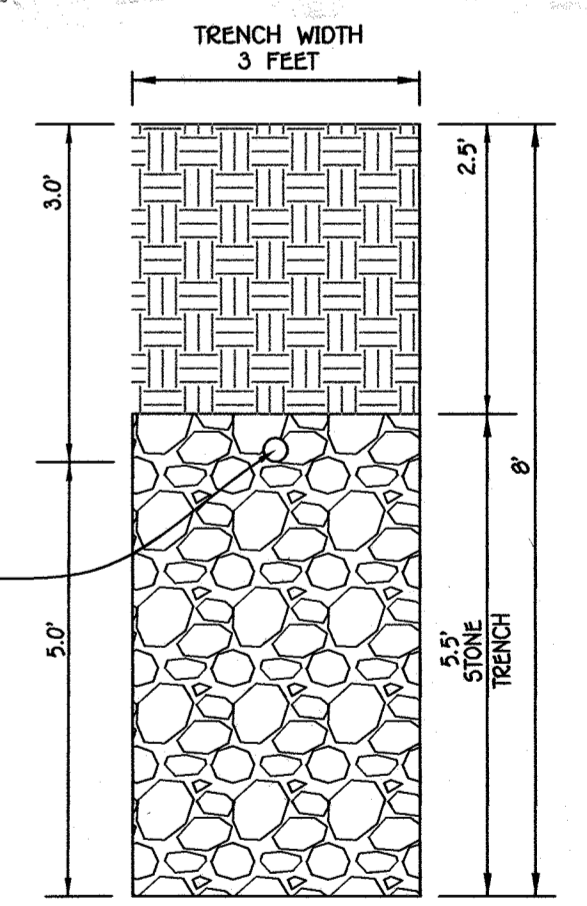
SEPTIC SYSTEM DESIGN
 FFE = 588.72
 APPROX. INV. OUT OF BLDG = 588.0
 WAREHOUSE #1
 4997 SQ.FT. X 0.03 GPD/SQ.FT. = 149.91 GPD
 FUTURE WAREHOUSE
 4997 SQ.FT. X 0.03 GPD/SQ.FT. = 149.91 GPD

LOADING RATE = 299.82 GPD
 MINIMUM LOAD RATE = 400.00 GPD
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET (INITIAL SYSTEM)
 EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET (FIRST REPLACEMENT)
 EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET (SECOND REPLACEMENT)
 EFFECTIVE DEPTH (D) = 2.5 FEET (INITIAL SYSTEM)
 EFFECTIVE DEPTH (D) = 2.5 FEET (FIRST REPLACEMENT)
 EFFECTIVE DEPTH (D) = 2.5 FEET (SECOND REPLACEMENT)
 SF OF DRAINFIELD = 400 GPD / 1.2 = 333.33 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH (INITIAL) =
 $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 2.5)) = 0.55$
 TRENCH LENGTH = 333.33 SF x 0.55 / 3 = 61.11 FEET (90' PROVIDED)
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH (FIRST REPLACEMENT) =
 $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 2.5)) = 0.55$
 TRENCH LENGTH = 333.33 SF x 0.55 / 3 = 61.11 FEET (SECOND REPLACEMENT) =
 $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 2.5)) = 0.55$
 TRENCH LENGTH = 333.33 SF x 0.55 / 3 = 61.11 FEET

SEPTIC SYSTEM PROFILE
 SCALE: 1"=30'



I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND SPECIFICATIONS WITH THE APPROVED PLANS AND SPECIFICATIONS AND THAT THE CONTRIBUTING DRAINAGE AREA IS CURRENTLY STABILIZED TO PREVENT CLOSING OF THE UNDERGROUND SWM FACILITY.
 P.E.# 16193 DATE 4-11-22



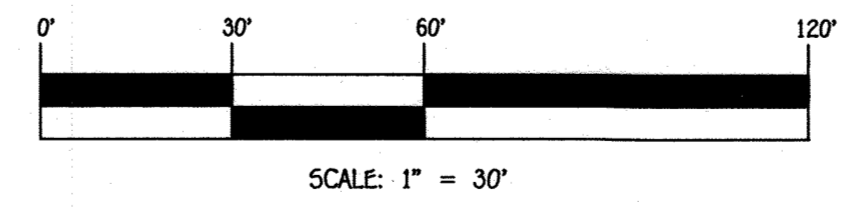
INITIAL TRENCH DETAIL
 SCALE: 1"=2'

SEPTIC SYSTEM PROFILE
 SCALE: 1"=30'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SOURCE OFFICE PARK - 10272 BALDWIN NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2899



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21475, EXPIRATION DATE: 7/14/21.
 Frank Manalansan II
 DATE: 5/21/20



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 DEVELOPER: RYAN MCWHORTER, 6891 REDBERRY ROAD, CLARKSVILLE, MD 21029, (410)-984-5813

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Chief, Division of Land Development	Date: 9-23-20
Chief, Development Engineering Division	Date: 11-30-20
Director - Department of Planning and Zoning	Date:

PROJECT: MCWHORTER PROPERTY	PHASE: N/A	PARCEL NO.: 334
PLAT: 9800-9802	ZONE: B-2	ELEC. DIST.: 4
CENSUS TR.: 24027604002	TAX/ZONE: 13	

PREVIOUS HOWARD COUNTY FILES: ECP-19-082, F-90-56

SEPTIC PROFILE AND DETAIL
 MCWHORTER PROPERTY
 WARFIELD'S GRANT SECTION 1, AREA 1
 PARCEL 'A'
 16031 ED WARFIELD ROAD
 TAX MAP NO.: 13 GRID NO.: 23 PARCEL NO.: 334
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 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
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 SHEET 13 OF 13
 SDP-20-012

AS-BUILT, NOV. 2021