STANDARD RESPONSIBILITY NOTES

1. I (We) certify that:

A) All development and construction will be done in accordance with this sediment and erosion control plan, and further, authorize the right of entry for periodic on-site evaluation by the Anne Arundel Soil Conservation District (AASCD) Board of Supervisors or their authorized agents.

B) Any responsible personnel involved in the construction project will have a certificate of attendance from the Maryland Department of the Environment's approved training program for the control of sediment and erosion before beginning the project.

Responsible personnel on site:

C) If applicable, the appropriate enclosure will be constructed and maintained on sediment basin(s) included in this plan. Such structure(s) will be in compliance with the Anne Arundel County Code.

- 2. The developer is responsible for the acquisition of all easements, right, and/or rights-of-way that may be required for the sediment and erosion control practices, storm water management practices and the discharge of storm water onto or across adjacent or downstream properties included in the plan.
- For initial soil disturbance or re-disturbance, permanent and/or temporary stabilization per the AASCD Vegetative Establishment shall be completed within three calendar days for the surface of all controls, dikes, swales, ditches, perimeter slopes and all slopes greater than 3 horizontal to 1 vertical (3:1); and seven days for all other disturbed or graded areas on the project site.
- 4. The grading and sediment control approval on this plan extends only to those areas within the limits of
- 5. The approval of this plan for sediment and erosion control does not relieve the developer/consultant from complying with Federal, State or County requirements pertaining to environmental issues.
- 6. The developer must request that the sediment and erosion control inspector approve work completed in accordance with the approved erosion and sediment control plan, the grading or building permit, and
- 7. All material shall be taken to a site with an approved sediment and erosion control plan.
- 8. First phase inspection and approval of the sediment and erosion control inspector shall be required upon completion of the installation of erosion and sediment controls prior to proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until the initial approval by the sediment and erosion control inspector is given. Inspection and Permits may also require that an inspection and certification of the installation of sediment control also be performed by a design professional prior to construction commencing.
- 9. Approval from the inspector must be requested on final stabilization of all sites prior to removal of sediment and erosion controls.
- 10. Existing topography must be field verified by responsible personnel to the satisfaction of the sediment control inspector prior to commencing work.

David C. Braun	8/10/23	
Signature of Developer/Owner	Date	

Print: Name: Mr. David Braun

Title: Engineer Administrator

Address: Anne Arundel County Department of Public Works

Capital Projects Program

225 Riva Road, Suite 120

Annapolis, MD 21401

Telephone Number: 410-222-7544

Email Address: pwbrau78@aacounty.org

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES AND ABBREVIATIONS
3	EXISTING CONDITIONS AND RESOURCE MAPPING
4	OVERALL SITE PLAN
5–6	SITE PLAN
7	TRAIL PROFILE
8–12	DETAIL SHEETS
13–16	DRAINAGE AREA MAPS
17–19	STORMWATER MANAGEMENT PLANS
20	EROSION AND SEDIMENT CONTROL GENERAL NOTES
21	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
22	EROSION AND SEDIMENT CONTROL DETAILS
23–25	EROSION AND SEDIMENT CONTROL PLANS
26	BOARDWALK PLAN AND ELEVATION
27	BOARDWALK TYPICAL SECTION
28	BOARDWALK END SUPPORT WALL
29	SOIL BORING LOGS
30	LANDSCAPE PLAN
31	LANDSCAPE NOTES AND DETAILS
32	FOREST CONSERVATION PLAN
33	FOREST CONSERVATION PLAN NOTES AND DETAILS

CONSULTANT'S CERTIFICATION

"The Developer's plan to control silt and erosion is adequate to contain the silt and erosion on the property covered by the plan. I certify that this plan of erosion and sediment control represents a practical and workable plan based on my personal knowledge of this site, and was prepared in accordance with the requirements of the Anne Arundel Soil Conservation District Plan Submittal Guidelines and the current Maryland Standards and Specifications for Sediment and Erosion Control. I have reviewed this erosion and sediment control plan with the owner/developer.

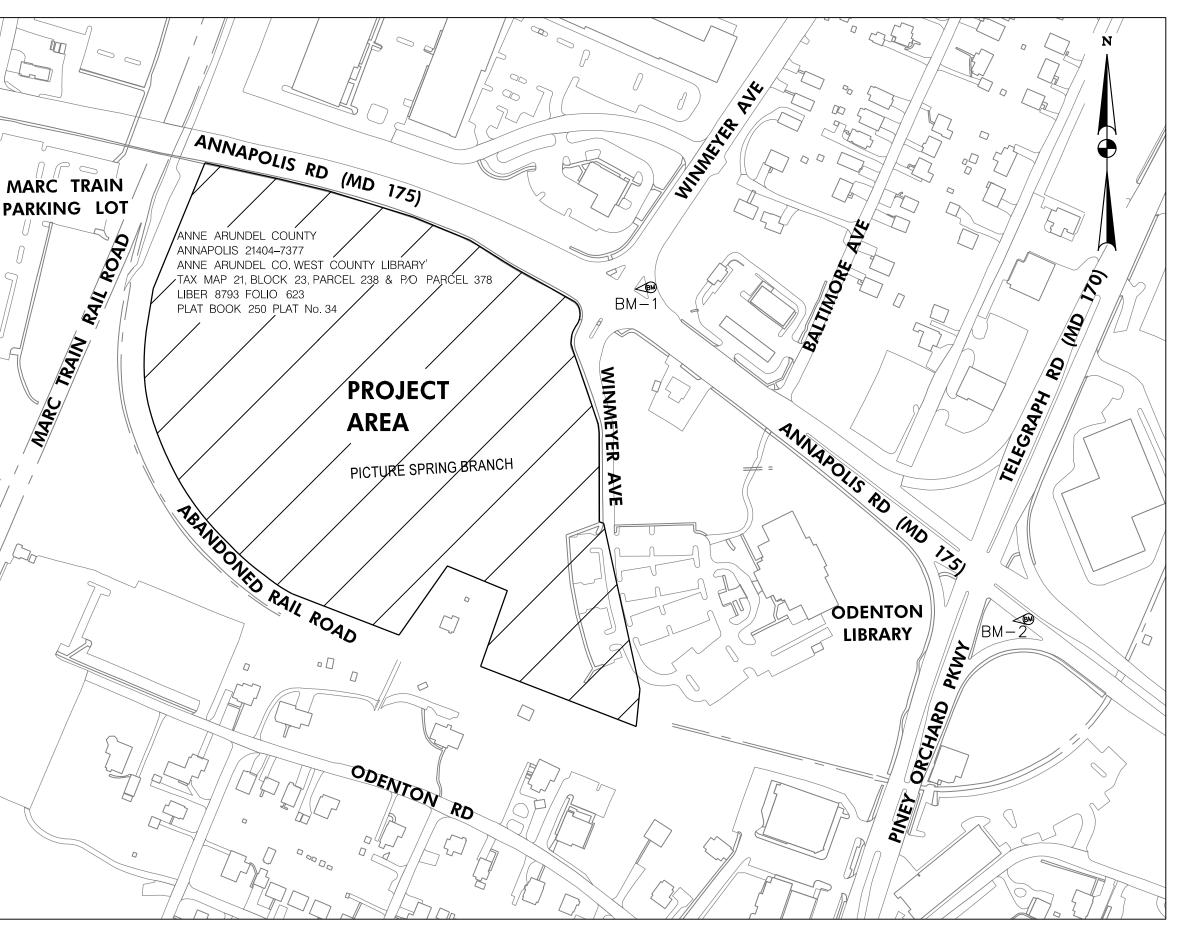
MD Land Surveyor License #_.____

ANNE ARUNDEL COUNTY, MD. DEPARTMENT OF PUBLIC WORKS

ODENTON LIBRARY COMMUNITY PARK PHASE 1

PROJECT NO.: P584400

CONTRACT NO.: P584401



LOCATION MAP

SCALE: 1'' = 200'

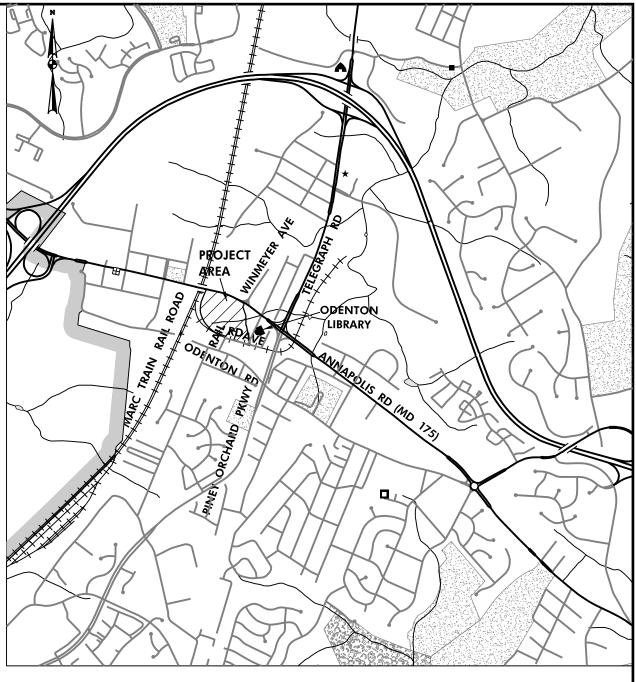
DATUM: NAD 83/91 Horizontal

OWNER/DEVELOPER'S CERTIFICATION

HEREBY CERTIFY THAT ALL PROPOSED WORK SHOWN ON THESE CONSTRUCTION DRAWING(S) WILL BE CONDUCTED IN STRICT ACCORDANCE WITH THESE PLANS, I ALSO UNDERSTAND THAT IT IS MY RESPONSIBILITY TO HAVE THE CONSTRUCTION SUPERVISED AND CERTIFIED, INCLUDING THE SUBMITTAL OF "AS-BUILT" PLANS CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR, AS APPROPRIATE, WITHIN THIRTY (30) DAYS OF COMPLETION WORK ON THE STORMWATER MANAGEMENT FACILITY. I ALSO CERTIFY THAT THIS STORMWATER MANAGEMENT FACILITY WILL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR, AS APPROPRIATE, IN ACCORDANCE WITH THE PUBLIC LOCAL LAWS AND ORDINANCES OF ANNE ARUNDEL COUNTY.

SIGNATURE: David C. Braun

2662 RIVA ROAD, ANNAPOLIS MD, 21401



GRADING AS-BUILT CERTIFICATION

ALL GRADING, DRAINAGE, STRUCTURES AND EROSION AND SEDIMENT CONTROL PRACTICES INCLUDING FACILITIES AND VEGETATIVE MEASURES HAVE BEEN COMPLETED IN CONFORMANCE WITH THE APPROVED

LICENSE NUMBER _____ DATE

STORMWATER MANAGEMENT AS-BUILT CERTIFICATION

THIS CERTIFIES TO THE BEST OF MY PROFESSIONAL BELIEF AND KNOWLEDGE THE APPROVED S.W.M. SYSTEM(S) AS SHOWN HERON HAVE BEEN CONSTRUCTED IN SUCH A MANNER THAT WOULD BE CONSISTENT WITH THE APPROVED PLANS. ANY CHANGESMODIFICATIONS ARE SHOWN IN RED.

LICENSE NUMBER

FOREST CLEARING NOTE: AREA of PROPOSED FOREST CLEARING = 81,390 SF (1.88 ACRES)

AASCD APPROVAL BOX

LIMIT OF DISTURBANCE NOTE: AREA of PROPOSED DISTURBANCE = 1.92 ACRES

OF			
CE			

DATE: 8/10/23

ANNE ARUNDEL COUNTY

PHONE NUMBER: 410-222-7500

ANNE ARUNDEL COUNTY

DEPARTMENT OF PUBLIC WORKS REVISED APPROVED APPROVED DATE DRAWING NO. DATE BY DRAWN BY **ODENTON LIBRARY COMMUNITY PARK** CHIEF ENGINEER PROJECT MANAGER CHECKED BY PHASE 1 APPROVED SHEET 1 OF 33 APPROVED DATE PROJECT NO. P479800 TITLE SHEET ASSISTANT CHIEF ENGINEER CHIEF, RIGHT OF WAY

STATEMENT OF ACCESSIBILITY REVIEW CERTIFICATION

ELEVATION

148.3700

144.4852

DESCRIPTION

REBAR & CAP

REBAR & CAP

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN DESIGNED IN CONFORMANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, COUNTY CODE, MARYLAND ACCESSIBILITY CODE AND ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES - ICC A117.1- 2009

STANDARD Print Name: <u>JEREMY GIPE</u> Signature: ___

ALL COORDINATES AND ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE MARYLAND

EASTING

1397088.1230

1397871.4940

STATE PLANE COORDINATE SYSTEM (NAD 83/2011) AND VERTICAL ELEVATION (NAVD 88).

NORTHING

518072.2690

517383.7810

BENCHMARK NOTE:

BENCHMARK NO.#



BRUDIS & ASSOCIATES, INC

000 Broken Land Pkwy; Suite 450

Consulting Engineers

Phone 410-884-3607

Firm Name: Brudis and Associates, Inc.

Name: Ankur Patel, P.E.

Address: 11000 Broken Land Pkwy, Suite 450

Columbia, MD 21044

ABBREVIATIONS

ASHTO				
Transportation Officials	AASHTO	American Association of State Highway	HDWI	Headwall
ADT. Average Daily Traffic Concrete Pipe AHD. Ahead HF. High Point APPTOX. Approximate IN. Inch Bar B. Bascline IN. Inch BK Back Pook INV. Invert BIT. Bituminous Concrete K K Intel B.M. Berich Mark L Length BOT. Bottom LF Liner Feet C.C. Contracted Aluminum Pipe LP Luguid Limit CAP. Corrugated Aluminum Pipe Arch LP. Light Pole CAP. Corrugated Aluminum Pipe Arch LP. Light Pole CAP. Corrugated Aluminum Pipe Arch LP. Light Pole CAP. Corrugated Minimum Pipe Arch LP. Light Pole CAP. Corrugated Minimum Pipe Arch LP. Light Pole CAP. Corrugated Minimum Pipe Arch LP. Light Pole CAP. Colliser Santa MAC Macadam CAPT. Colliser Santa <td>, , , , , , , , , , , , , , , , , , , ,</td> <td>9 ,</td> <td></td> <td></td>	, , , , , , , , , , , , , , , , , , , ,	9 ,		
AHD. Ahead HP. High Point APPROX. Approximate IN. Inch B. Baseline I.S.T. Intel Sediment Trap BK Back Alook INV. Invert BC Bituminous J.B. Junction Box B.C. Bituminous L. Length BC Bituminous L. Length BC Bench Mark L. Length BC Commanded Aluminum Pipe L. Length Ende CAPA Corrugated Aluminum Pipe Arch L.P. Lept Pole CAPA Corder Television L.T. Left CAPA Cond Aluminum Pipe Arch L.P. Lept Pole CATV Cable Television L.T. Left CAPA Conder Aluminum Pipe Arch L.P. Left Pole CAPA Conder Genetic Mark M.C. Molsture Content CL Clais M.R. MAX. Maxmum CL Colkitiki Fence M.D.	ADT	•	112.101	•
APPROX. Approximate IN. Inch BC BL Baseline I.S.T. Intet Sediment Trap BK Back / Book INV. Invert BIT. Bhuminous Concrete K. K. Inlet B.M. Bench Mark L. Length BOT. Bottom LF Linear Feet C.C. Center of Curve LL Liquid Limit CAP. Corrugated Aluminum Pipe LP Low Point CAPA Corrugated Aluminum Pipe Arch LP Light Pole CAPA Corrugated Selering Ratio MAC Macadam Q or CL Celetricine M.C. Moisture Content CL Class MAX Maxmum CL Class MAX Maxmum CL Challink Fence M.D. Maditud CL Challink Fence M.D. Maxmum Dry Content CL Challink Fence M.D. Maxmum Dry Content CL Chal			HP	•
By or Ball Baseline I.S.T. Intel Sediment Trap BK Back / Book INV. Invert BT Bituminous Concrete K. K Intel B.C. Bituminous Concrete K. K Intel B.M. Bench Mark L. Length BOT. Bottom L.F. Linear Feet C.C. Control Curve L.L. Linual Limit CAPA Corrugated Aluminum Pipe Arch L.P. Loy Point CAPA Corrugated Aluminum Pipe Arch L.P. Loy Point CAPA Code Intervision MAC Macadam CAP Codifioral Rearing Ratio M.C. Molsture CL Classion M.M. MAX. Maximum CL Chaillink Fence M.D. Maximum Dry Content <t< td=""><td></td><td></td><td></td><td>_</td></t<>				_
BK Back / Book INV. Invert BT. Bituminous Concrote K K K Inlet BM. Bench Mark L Length BOT. Bottom LF Linear Feet C.C. Center of Curve LL Liquid Limit CAP. Corrugated Aluminum Pipe LP Low Point CAPA. Corrugated Aluminum Pipe Arch LP. Light Pole CATV. Cable Television LT. Left CATV. Cable Television LT. Left CBR. Calfornia Bearing Ratio MAC. Macadam C. CTV. Cal ass MX. Maximum CL. Calfornia Bearing Ratio MAC. Maximum C.D. Chaintine M. M. M. <td< td=""><td></td><td>• •</td><td></td><td></td></td<>		• •		
BIT. Bituminous Concrete K K Inlet B.C. Bituminous Concrete K K Inlet B.M. Bench Mark L Length BOT. Bottom LF Linear Feet C.C. Contrugated Aluminum Pipe LP Low Point CAPA. Corrugated Aluminum Pipe Arch LP Light Pole CATV Cable Television LT Left C.B.B. Callfornia Bearing Ratio MAC Macadem C.B. Callfornia Bearing Ratio MAC Macadem C.B. Callfornia Bearing Ratio MAC Macadem C.B. Callfornia Bearing Ratio MAC Macadem C.C. Class MAX Maximum CL. Class MAX Maximum Dry Content CL. Class MAX Maximum Dry Content C.O. Cleanout MIN Moritine N. CO. Concrete N. N. Northoast <				•
BC. Bituminous Concrete BM. Bench Mark BOT. Bottom C.C. Center of Curve C.C. Center of Curve C.C. Center of Curve C.C. Corrugated Aluminum Pipe CAP. Corrugated Aluminum Pipe Arch CAP. Consider Searing Ratio CARTV. Cable Television CI. Calls Television CI. Calls MAC. Macadam C. Moisture Content CL. Class MAX. Maximum CL. Class MAX. Maximum CL. Class MAX. Maximum MIN. Minimum Dry Content CMP. Corrugated Metal Pipe MOD. Modified C.O. Cleanout MIN. Minimum COMB. Combination CONC. Concrete NB. Northbound CONSTR. Construction CONSTR. Construction CORR. Corrugated Steel Pipe Arch CORP. Corrugated Steel Pipe Arch CORP. Corrugated Steel Pipe Arch Aluminized Type 2 CSPA Corrugated Steel Pipe Arch Aluminized Type 2 CSPA Corrugated Steel Pipe Arch Aluminized Type 2 CORPAIN Design Hourly Volume DI. Degree of Curve DI. Degree of Curve DI. Degree of Curve DI. Degree of Curve DI. Diameter D				
BM. Bench Mark L. Length BOT. Bottom LF Linear Feel C.C. Conter of Curve L.I. Liquid Limit CAP. Corrugated Aluminum Pipe LP Light Pole CAPA Corrugated Aluminum Pipe Arch LP Light Pole CATV Cablo Television LT Left CARY Cabliforia Bearing Ratio MAC Macadam Q. or CL Centerline M.C. Mosture Content CL Chainlink Fence M.D. Maximum Dry Content CMP Congated Metal Pipe MOD. Maximum Dry Content CMP Corrugated Metal Pipe MOD. Modified CO. C. Cleanout MIN. Minimum COMB. Combination N. North CONC. Concrete N.B. Northbound CONC. Concrete N.B. Northbound CONC. Concrete N.B. Northbound <				
BOT. Bottom LF Linear Feet C.C. Center of Curve LL Liquid Limit CAP. Corrugated Aluminum Pipe LP Low Point CAPA Corrugated Aluminum Pipe Arch LP Light Pole CATV Cable Television LT Left CBLR Calidomia Bearing Ratio MAC Macadam € or OL Centerline M.C. Moisture Content CL Class MAX Maxmum CLF Chainlink Fence M.D.D. Modified CDP Corrugated Metal Pipe M.D.D. M.D.D. Mother COMB. Contract N.B. Northaud Northaud CONG.	B.M	Bench Mark		
CAP. Corrugated Aluminum Pipe Arch L.P. Light Pole CATV Cable Television L.T. Left C.B.R. Callornia Bearing Ratio MAC. Macadam Q. or CL. Centerline M.C. Moisture Content CL. Class MAX. Maximum CLF. Chainlink Fence M.D.D. Maximum CMP. Corrugated Motal Pipe MOD. Modified COP. Corrugated Motal Pipe MOD. Modified COP. Corrugated Motal Pipe MOD. Modified C.O. Cleanout MIN. Minimum COMB. Cornitation N.P. Northound COMB. Construction N.B. Northbound CONC. Concrete N.B. Northbound COR. Construction N.P. Non-Plastic COR. Corrugated Steel Pipe - Arch - N.P. Northbound CSPA. Corrugated Steel Pipe - Arch - PAV T. Pavernent	ВОТ	Bottom		9
CAP. Corrugated Aluminum Pipe Arch L.P. Light Pole CATV Cable Television L.T. Left C.B.R. Callornia Bearing Ratio MAC. Macadam Q. or CL. Centerline M.C. Moisture Content CL. Class MAX. Maximum CLF. Chainlink Fence M.D.D. Maximum CMP. Corrugated Motal Pipe MOD. Modified COP. Corrugated Motal Pipe MOD. Modified COP. Corrugated Motal Pipe MOD. Modified C.O. Cleanout MIN. Minimum COMB. Cornitation N.P. Northound COMB. Construction N.B. Northbound CONC. Concrete N.B. Northbound COR. Construction N.P. Non-Plastic COR. Corrugated Steel Pipe - Arch - N.P. Northbound CSPA. Corrugated Steel Pipe - Arch - PAV T. Pavernent	C.C	Center of Curve	L.L	Liquid Limit
CAPA Corrugated Aluminum Pipe Arch L.P. Light Pole CATV Cable Television LT. Left € or CL Caltionia Bearing Ratio MAC. Macadam € or CL Centerline M.C. Mobiture Content CLE Chainlink Fence M.D.D. Maximum CMP Corrugated Metal Pipe MOD. Modified CMP Cordination N.D.D. Maximum COMB. Combination N.D.D. Month CONC. Concrete N.B. Northbound CONSTR. Construction N.B. Northbound CONE. Corner N.P. Non-Plastic COR. Corner N.P. Non-Plastic COR. Corrugated Polyethylene Pipe – Type 'S' OHE Overhead Electric CSPA Corrugated Steel Pipe – Aluminized Type 2 O.M. Optimum Moisture CSPA Corrugated Steel Pipe Arch – PAVT – Pavement Aluminized Type 2 P.C. Point of Curvature	CAP	Corrugated Aluminum Pipe		
C.B.R. California Bearing Ratio M.C. Moisture Content Q. or Ot. Centerline M.C. Moisture Content CL. Class MAX. Maximum CLF. Chainlink Fence M.D.D. Maximum Dry Content CMP. Corrugated Metal Pipe MOD. Modified C.O. Cleanout MIN. Minimum COMB. Combination N. North CONC. Concrete NB Northbound CONC. Construction NE Northbound CONSTR. Construction NE Northbound CORR. Correction N.P. Non-Plastic CORR. Corrugated Polyethylene Pipe − Type 'S' CSP. Corrugated Steel Pipe − Aluminized Type 2 CSPA Corrugated Steel Pipe − Aluminized Type 2 CSPA Corrugated Steel Pipe Arch − PAV T. Pavement Aluminized Type 2 CD. Degree of Curve PCC Point of Corryound Curvature D.H.V. Design Hourly Volume PCC Point of Corryound Curvature D.H.V. Design Hourly Volume PCC Point of Corryound Curvature D.H.D. Drop Inlet D.O. Double Opening P.G.L. Profile Grade Elevation D.O. Double Opening P.G.L. Profile Ground Elevation D.O. Double Opening P.G.L. Profile Ground Elevation E. East E. Electric PR Point of Rotation E. Esternal Distance P. P.G. Point of Rotation E. Esternal Distance P.I. Plasticty Index E. Each PI Point of Intersection E. East Each PI Point of Trangent E. Each PI Point of Trangent E. East PROP Proposed FT Feot Profile Molline PPT Point of Trangent E. End Section PPWP Polyvinyl Chloride Profile Wall Pipe EX or EXIST. Existing FT Foot PROP Proposed FT Foot Of Vertical Trangency FMD. Forward PVC Polyvinyl Chloride Profile Wall Pipe EX or EXIST. Existing FT Point of Trangency FMD. Forward PVC Polyvinyl Chloride Profile Wall Pipe EX or EXIST. Existing FT Point of Vertical Intersection FMD. Forward PVC Polyvinyl Chloride Profile Wall Pipe EX or EXIST. Existing FT Point of Vertical Reverse Curve FMD. Forward PVC Polyvinyl Chloride PVC Polyvinyl Chloride G. Gas PVC Point of Vertical Trangency FMD. Forward PVC Point		-	L.P	Light Pole
© or CL. Centerline CL. Class CL. Class CL. Chainlink Fence CL. Chainlink Fence CMP. Corrugated Metal Pipe CO. Cleanout CMB. Combination COMB. Combination COMB. Combination COMB. Combination CONSTR. Construction COR. Concret COR. Correct COR. N.P. Non-Plastic COR. Correct COR. N.P. Non-Plastic COR. Correct COR. N.B. Northbound Correct COR. MIN. Minimum N. North North Non-Theast N.P. Northbound North	CATV	Cable Television	LT	Left
© or CL. Centerline CL. Class CL. Chainlink Fence CL. Chainlink Fence CMP. Corrugated Metal Pipe CO. Cleanout COMB. Combination COMB. Combination CONG. Concrete CMP. Correct COR. Contruction CONSTR. Construction CORS. Correct COR. No. Northbound COR. Correct COR. Correct COR. Correct COR. Correct COR. Correct COR. Northbound COR. Correct COR. MIN. Month Nonth Non	C.B.R	California Bearing Ratio	MAC	Macadam
CLF. Chainlink Fence M.D.D. Maximum Dry Content CMP. Corrugated Metal Pipe MOD. Modified C.O. Cleanout MIN. Minimum COMB. Combination N. North CONC. Concrete NB Northbound CONSTR. Construction NE Northeast CORR. Correction N.P. Non-Plastic CORR. Correction O.C. On Center COPP-S. Corrugated Polyethylene Pipe - Type 'S' OHE Overhead Electric CSP Corrugated Steel Pipe - Aluminized Type 2 CSPA Corrugated Steel Pipe - Aluminized Type 2 CSPA Corrugated Steel Pipe - Aluminized Type 2 CD Degree of Curve PCC Point of Curvature DLHV. Design Hourly Volume PC PCC Point of Compound Curvature DLHV. Design Hourly Volume PC Point of Compound Curvature DLA. Diameter PC Point of Compound Elevation DLA. Diameter P.G.E. Profile Grade Elevation DLO. Double Opening P.G.E. Profile Grade Line E East P.G. Profile Grade Line E East P.G. Profile Grade Line E Estemal Distance P.I. Plasticity Index E External Distance P.I. Plasticity Index E External Control POC Point of Tangent ES End Section PPWP Polyvinyl Chloride Profile Wall Pipe EX or EXIST Existing PROP Proposed FT Feet PRC Point of Reverse Curve F or FL Flowline PT Point of Vertical Curve FWD. Forward PVC Polyvinyl Chloride G. Gas G.V. Gas Valve PVRC Polint of Vertical Intersection PVT Point of Vertical Reverse Curve PVT Point of Vertical Intersection			M.C	Moisture Content
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C.O. Cleanout COMB. Combination CONC. Concrete NB Northbound North CONSTR. Construction NE Northeast North	CLF	Chainlink Fence	M.D.D	Maximum Dry Content
COMB. Combination N. North CONC. Concrete NB Northbound CONSTR. Construction NP. Northeast COR. Corner N.P. Non-Plastic CORR. Correction O.C. On Center CPP-S. Corrugated Ployethylene Pipe – Type 'S' OHE Overhead Electric CSP Corrugated Steel Pipe – Aluminized Type 2 CSPA Corrugated Steel Pipe Arch – Aluminized Type 2 CSPA Corrugated Steel Pipe Arch – PC Point of Curvature DC. Degree of Curve PCC Point of Compound Curvature D.H.V. Design Hourly Volume PC Point of Compound Curvature D.H.V. Design Hourly Volume PC Point of Crown D.I. Drop Inlet PGE Profile Grade Elevation D.O. Double Opening P.G.L. Profile Grade Lievation D.O. Double Opening P.G.L. Profile Ground Line E. Electric PAR Point of Intersection E. External Distance P.I. Plasticity Index E. Each PI Point of Intersection EB Eastbound POC Point On Tangent ES End Section PPWP Polyvinyl Chloride Profile Wall Pipe EX or EXIST Existing PROP Proposed FT Feet PROP Provingle Grade Curve FT Point of Intersection FR. Pier Hydrant PVC Point of Vertical Curve FWD. Forward PVC Point of Vertical Curve FWD. Forward PVC Point of Vertical Reverse Curve FWD. Forward PVC Point of Vertical Intersection G.V. Gas Valve PVT Point of Vertical Reverse Curve H.B. Handbox R.F. Radius R.F. Rock Fragments	CMP	Corrugated Metal Pipe	MOD,	Modified
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CORR. Correction CPP-S Corrugated Polyethylene Pipe – Type 'S' OHE Overhead Electric CSP Corrugated Steel Pipe – Aluminized Type 2 CSPA Corrugated Steel Pipe Arch – Aluminized Type 2 DC Degree of Curve D.H.V. Design Hourly Volume D.I. Drop Inlet DIA. Diameter D.O. Double Opening E E East E Electric E External Distance E Electric E External Distance E Each P PO Point of Rotation E E East PO PO Point of Rotation E E East PO PO Point of Rotation E E East PO PO Point of Rotation E E Esternal Distance E PO Point of Rotation E Fer Profile Grade Line E PR Point of Rotation E PO PO Point of Rotation E PO Point of Rotation E PO Point of Rotation E PO PO PO Point of Rotation E PO	CONSTR	Construction	NE	Northeast
CPP-S Corrugated Polyethylene Pipe - Type 'S' OHE Overhead Electric CSP Corrugated Steel Pipe - Aluminized Type 2 O.M. Optimum Moisture CSPA Corrugated Steel Pipe Arch - Aluminized Type 2 PAV T. Pavement Paveme	COR	Corner	N.P	Non–Plastic
CSP Corrugated Steel Pipe — Aluminized Type 2 CSPA Corrugated Steel Pipe Arch — Aluminized Type 2 DC Degree of Curve D.H.V. Design Hourly Volume D.I. Drop Inlet DO. Double Opening E East Electric E Electric E Esternal Distance E Each E E Electric E Feet E Feet E Find Section E F	CORR	Correction	O.C	On Center
CSPA Corrugated Steel Pipe Arch - Aluminized Type 2 PC Point of Curvature DC Degree of Curve PCC Point of Compound Curvature D.H.V. Design Hourly Volume PCC Point of Crown D.I. Drop Inlet PCE Profile Grade Elevation DIA. Diameter P.G.E. Profile Grade Line E. East PCGL Profile Ground Elevation D.O. Double Opening P.G.L. Profile Grade Line E. Electric PR Point of Rotation E. External Distance PI. Plasticity Index EA Each PI Point of Intersection EB Eastbound POC Point On Curve ELEV Elevation POT Polyvinyl Chloride Profile Wall Pipe EX or EXIST Existing PROP Proposed FT Feet PRC Point of Reverse Curve F or FL Flowline PT Point F.B.D. Flat Bottom Ditch PT Point F.B.D. Flat Bottom Ditch PVC Point of Vertical Curve FWD. Forward PVC Polyvinyl Chloride G. Gas PVI Point of Vertical Intersection R.F. Rock Fragments	CPP-S	Corrugated Polyethylene Pipe - Type 'S'	OHE	Overhead Electric
Aluminized Type 2 DC Degree of Curve D.H.V. Design Hourly Volume D.H. Drop Inlet D.H. Drop Inlet D.H. Diameter D.O. Double Opening E East E Electric E External Distance E External Distance E East POC Point of Crown P.G.L. Profile Grade Elevation P.G.L. Profile Ground Elevation P.G.L. Profile Ground Line P.G.L. Profile Wall Profile P.G. Point of Neures P.G. Point of Reverse Curve P.G.L. Profile Mall Profile P.G. Point of Vertical Curve P.G. Point of Vertical Curve P.G. Point of Vertical Curve P.G. Point of Vertical Tangency P.G. Point of Vertical Tangency P.G.	CSP	Corrugated Steel Pipe - Aluminized Type 2	O.M	_Optimum Moisture
DC. Degree of Curve D.H.V. Design Hourly Volume D.I. Drop Inlet D.O. Drop Inlet D.O. Double Opening E. East P.GL Profile Grade Elevation P.G. Profile Grade Elevation D.O. Double Opening P.G.L Profile Grade Line E. East P.GL Profile Ground Line E. Electric P.R Point of Rotation E. External Distance P.I. Plasticity Index EA Each P.O. Point On Curve ELEV Elevation P.O. Point On Tangent ES End Section P.O. Point On Tangent P.O. Point On Tan	CSPA	. Corrugated Steel Pipe Arch -	PAV' T	Pavement
D.H.V. Design Hourly Volume D.I. Drop Inlet D.I. Drop Inlet D.I. Drop Inlet D.I. Diameter D.I. Diameter D.I. Double Opening D.I. Profile Grade Elevation D.I. Profile Grade Line D.I. Profile Grade Elevation D.I. Diameter D.I. Profile Grade Elevation D.I. Drofile Grade Elevati		Aluminized Type 2	PC	Point of Curvature
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DIA. Diameter D.O. Double Opening P.G.L. Profile Ground Elevation P.G.L. Profile Grade Line P.G.L. Profile Grade Line P.G.L. Profile Ground Line P.G.L. Profile Wall Profile P.G.L. Profile Ground Line P.G.L. Profile Wall Profile P.G.L. Profile Ground Line P.G.L. Profile Wall Profile P.G. Point of Netron Line P.G.L. Profile Wall Profile P.G. Point of Netron Line P.G.L. Profile Wall Profile P.G. Point of Netron Line P.G. Profile Wall Profile P.G. Profile Wall Profile P.G. Point of Netron Line P.G. Profile Wall Profile P.G. Profile	D.H.V	Design Hourly Volume		
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E East P/GL Profile Ground Line E Electric P/R Point of Rotation E External Distance P.I. Plasticity Index EA Each Pl Point of Intersection EB Eastbound POC Point On Curve ELEV Elevation POT Point On Tangent ES End Section PPWP Polyvinyl Chloride Profile Wall Pipe EX or EXIST Existing PROP Proposed FT Feet PRC Point of Reverse Curve F or FL Flowline PT Point F.B.D. Flat Bottom Ditch PT Point of Tangency F.H. Fire Hydrant PVC Point of Vertical Curve FWD. Forward PVC Polyvinyl Chloride G. Gas PVI Point of Vertical Intersection G.V. Gas Valve PVRC Point of Vertical Reverse Curve H.B. Handbox PVT Point of Vertical Tangency High Density Polyetheylene R Radius R.F. Rock Fragments			P.G.E	Profile Ground Elevation
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EX or EXIST. Existing Feet Feet For FL				_
FT Feet PRC Point of Reverse Curve F or FL Flowline PT Point F.B.D. Flat Bottom Ditch PT Point of Tangency F.H. Fire Hydrant PVC Point of Vertical Curve FWD Forward PVC Polyvinyl Chloride G Gas PVI Point of Vertical Intersection G.V. Gas Valve PVRC Point of Vertical Reverse Curve H.B. Handbox PVT Point of Vertical Tangency HDPE High Density Polyetheylene R Radius R.F. Rock Fragments				·
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F.B.D. Flat Bottom Ditch PT Point of Tangency F.H. Fire Hydrant PVC Point of Vertical Curve FWD. Forward PVC Polyvinyl Chloride G. Gas PVI Point of Vertical Intersection G.V. Gas Valve PVRC Point of Vertical Reverse Curve H.B. Handbox PVT Point of Vertical Tangency HDPE High Density Polyetheylene R Radius R.F. Rock Fragments				
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G Gas Valve Point of Vertical Intersection G.V Point of Vertical Intersection PVRC Point of Vertical Reverse Curve PVT Point of Vertical Tangency PVT Radius R.F. Rock Fragments				
G.V. Gas Valve H.B. Handbox HDPE High Density Polyetheylene PVRC Point of Vertical Reverse Curve PVT Point of Vertical Tangency R Radius R.F. Rock Fragments				
H.B. Handbox PVT Point of Vertical Tangency HDPE High Density Polyetheylene R.F. Rock Fragments				
HDPE High Density Polyetheylene R				
R.FRock Fragments				
	HDPE	High Density Polyetheylene		
RTRight				
			KI	Hight

	Right of Way
	Reinforced Concrete Pipe
	Reinforced Concrete Pressure F
	Rock Quality Designation
R.M	
S	
	Sanitary Sewer
	Southbound
	Storm Drain
	Surface Drain Ditch
S⁄E	Super Elevation
SF	Silt Fence
SF	Square Feet
SHT	Sheet
SPP	Structural Steel Plate Pipe
SPPA	Structural Steel Plate Pipe Arch
	Standard Penetration Testing
SRP	Steel Spiral Rib Pipe -
	Aluminized Type 2
SRPA	Steel Spiral Rib Pipe Arch -
	Aluminized Type 2
SSD	Stopping Sight Distance
	Super Silt Fence
STD	•
STA	
	Single Opening
	Square Yards
	Stormwater Management
T	
	Telephone
	Top of Cover
	Top of Grate
	Traverse Line
	Top of Manhole
TRAV	•
	Temporary Swale
	Top of Slab
	•
T.S	
TYP	• •
	Under Drain
	Underground
	Utility Pole
USDA	United States Department
	of Agriculture
	Vertical Clearance
	Vertical Curve Length
W	
W	
	Westbound
	Wetland Buffer
W.M	Water Meter
W.S	Wrapped Steel
WUS	Waters of the United States
۱۸/ ۱/	Mator Valva

W.V. Water Valve

GENERAL NOTES

- 1. THE LOCATION OF THE UNDERGROUND AND SURFACE UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO EXCAVATION FOR MARKING AND LOCATION OF UTILITIES.
- 2. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION, ANY CONFLICTS CONCERNING THE CONSTRUCTION AROUND EXISTING THE FIELD ENGINEER.
- 3. THE CONTRACTOR AND OTHERS SHALL PERFORM ALL WORK IN A MANNER THAT WILL ENSURE THE LEAST PRACTICAL OBSTRUCTION TO TRAFFIC, PEDESTRIANS, BUSINESSES, RESIDENTS, AND BE CONSISTENT WITH SAFETY.
- 4. ALL INVERT ELEVATIONS ARE APPROXIMATE AND MAY BE MODIFIED TO MEET CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES, EXCEPT STORMWATER MANAGEMENT FACILITIES.
- 5. THE CONTRACTOR WILL VERIFY ALL PIPE LENGTHS , SIZES, AND INVERTS IN THE FIELD BEFORE ORDERING ANY DRAINAGE STRUCTURES.
- 6. ALL BENCHMARKS AND COORDINATES SHOWN ON THE CONTRACT PLANS ARE "NAD83(2011)" AND "NAVD 88".
- 7. ALL EXISTING UTILITY FRAMES AND GRATES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE.
- 8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DEVIATION TO THIS PLAN AND/OR EXISTING FIELD CONDITIONS PRIOR TO ANY FIELD CHANGES BEING MADE. ANY CHANGE TO THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM DISTRICT 6 CONSTRUCTION SHALL BE THE RESPONSIBLITY OF THE CONTRACTOR.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS/HER CONSTRUCTION ACTIVITIES WITH THE CONSTRUCTION ACTIVITIES OF ADJACENT PROJECTS, IF ANY.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING LIGHT POLES, SIGNS, ETC., DAMAGED OR REMOVED BY HIM DURING CONSTRUCTION.
- 11. UNLESS NOTED OTHERWISE OR DIRECTED OTHERWISE BY THE ENGINEER THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREES, BUSHES, FENCES, ETC. WITHIN THE GRADING LIMIT.
- 12. THE CONTRACTOR SHALL PROTECT ALL TREES AND BUSHES THAT ARE NOT BEING REMOVED OR RELOCATED.

OUTFALL STATEMENT

POI-1 IS LOCATED WITHIN THE EXISTING RIGHT OF WAY ON THE NORTH SIDE OF THE ODENTON TRAIL. THE RUNOFF LEAVES THE PROJECT AREA SOUTH OF ANNAPOLIS ROAD VIA STREAM. RUNOFF FROM ANNAPOLIS ROAD FLOWS ALONG THE CURB AND INTO AN EXISTING INLET AND CONTINUES TO DRAIN INTO A LOW POINT ON WINMEYER AVENUE INTO AN INLET THAT OUTFALLS INTO PICTURE STREAM BRANCH. THE ADJACENT FIELD DRAINS TO THE PICTURE SPRING BRANCH STREAM THAT RUNS UNDER WINMEYER BRANCH THROUGH A 20"X6" BOTTOMLESS CONCRETE ARC AND CONTINUES TO AN EXISTING 60" RCP OUTFALL UNDER ODENTON TRAIL.

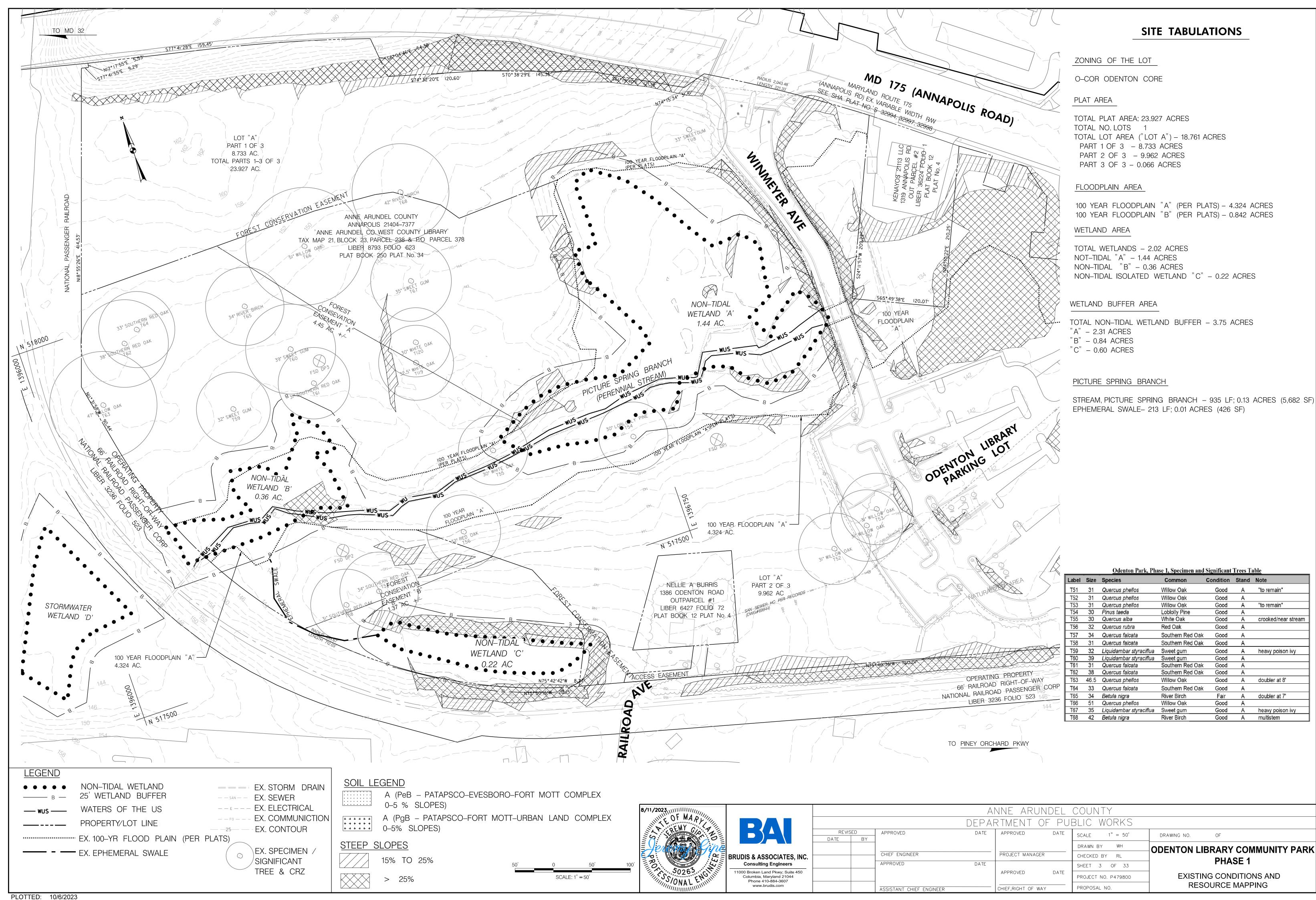
POI-2 IS LOCATED ON THE SOUTH SIDE OF THE PROJECT NEAR THE RAILROAD. THERE IS AN EXISTING DITCH THAT RUNS ALONG OBSTRUCTIONS PER THESE PLANS SHALL BE RESOLVED BETWEEN THE CONTRACTOR AND THE RAILROAD. THE POI WAS STOPPED AT A POINT IN THE DITCH FOR HYDROLOGY CALCULATIONS AND THE DITCH EVENTUALLY RUNS AND OUTFALLS INTO PICTURE STREAM BRANCH AND CONTINUES TO AN EXISTING CULVERT UNDER TELEGRAPH ROAD.

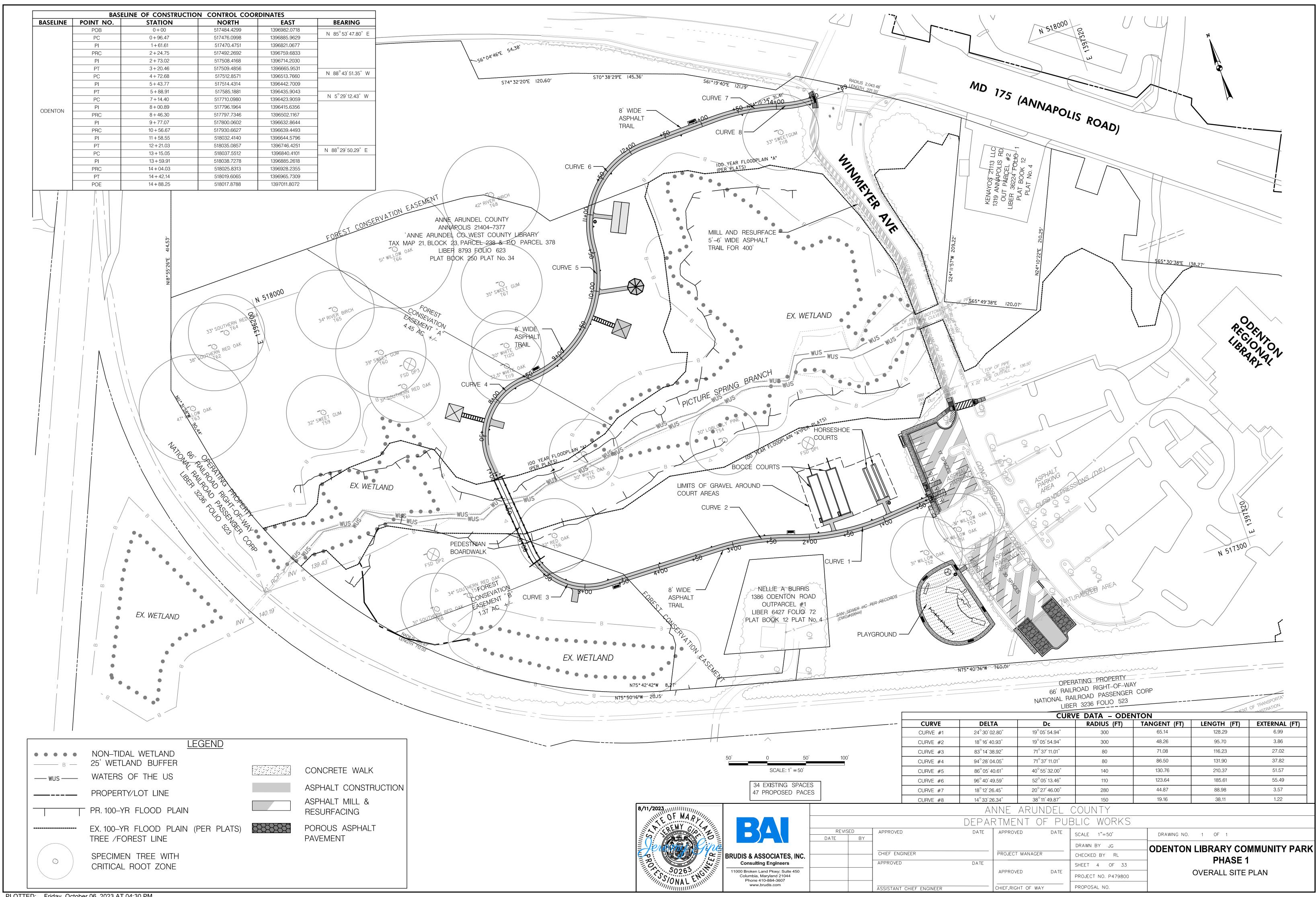
CONVENTIONAL SIGNS (SAMPLES)

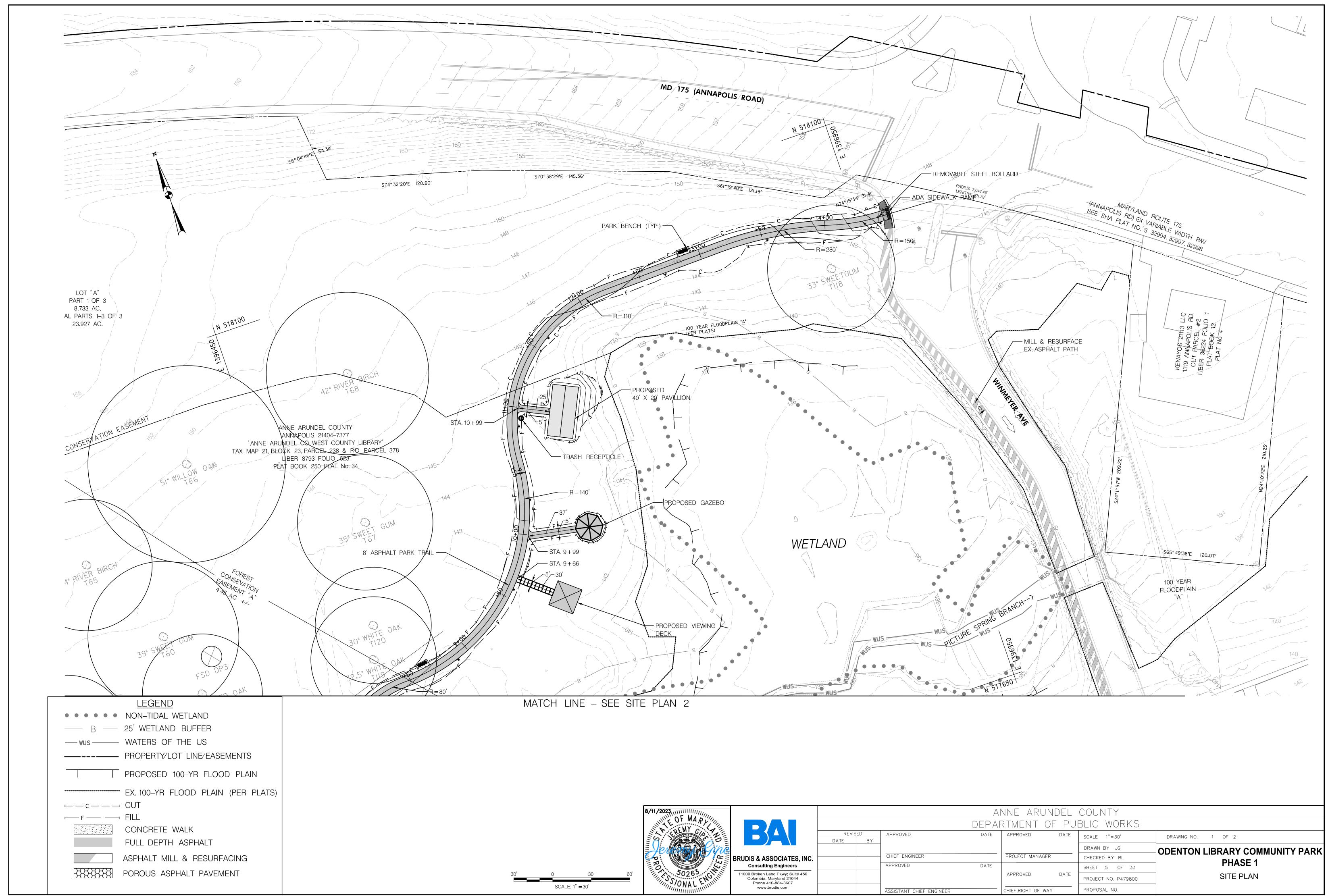
	•
PROPOSED MEDIAN BARRIERELECTRICAL HAND BOX – SIGNALSFLOW LINE	H.B. ■
STATE, COUNTY OR CITY LINES	
EXISTING FENCE LINE	3) *\$0 32 F ₄ H.
HISTORIC BOUNDARY WETLAND BOUNDARY	
EX. 100-YEAR FLOODPLAIN (PER PLATS)	······································

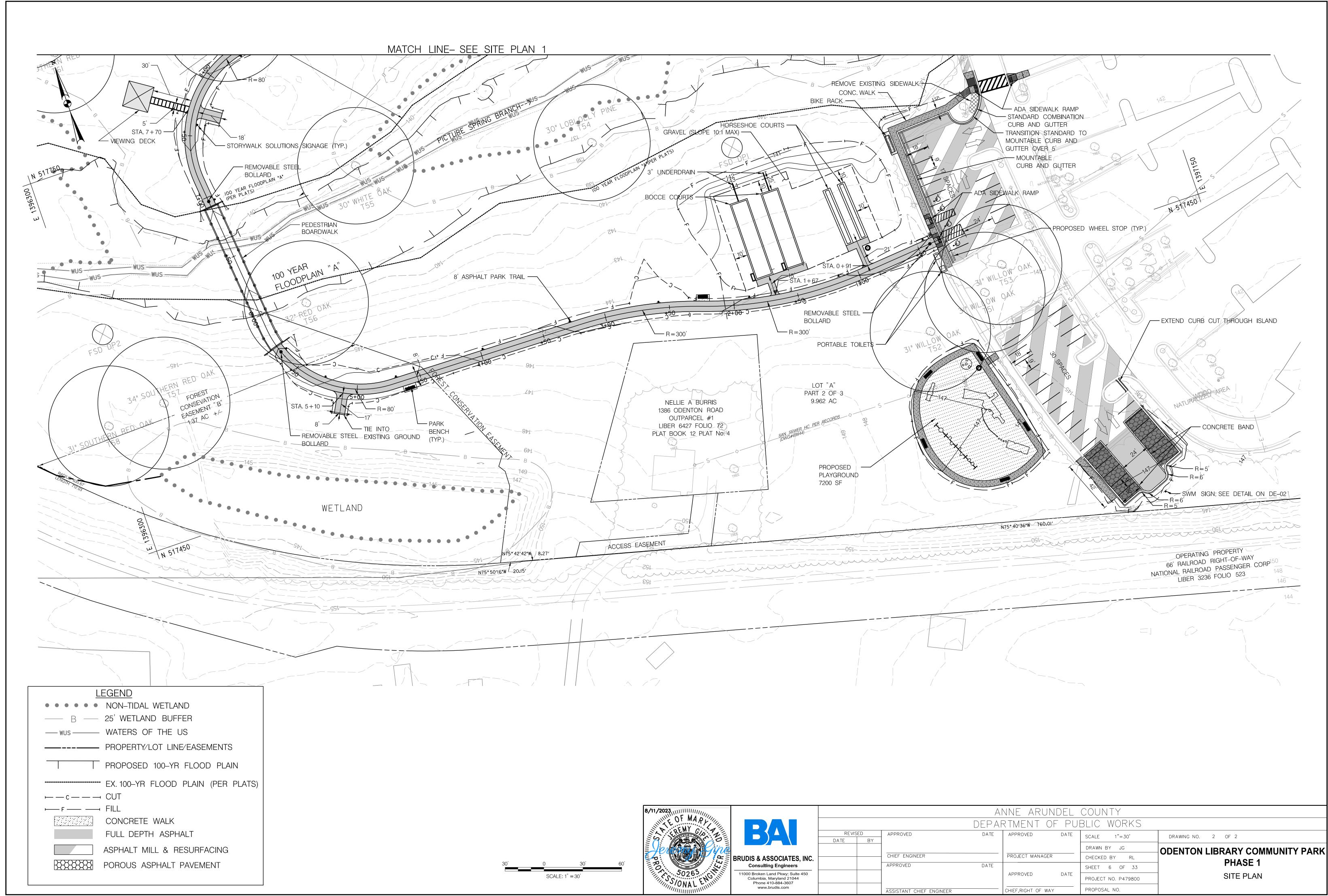
PROPOSED PIPE / CULVERT	
EXISTING PIPE / CULVERT	
EXISTING DROP INLET	
UTILITY POLE	\rightarrow
WETLAND	ماند عاند عاند عاند
WETLAND BUFFER	— в —
WATERS OF THE U.S	√ WUS ~
HEDGE /TREE LINE	~~~~~
BUSH /TREE	\bigcirc
CONIFEROUS TREE	W.
GROUND ELEVATION	DATUM LINE 2
GRADE ELEVATION	DATUM LINE

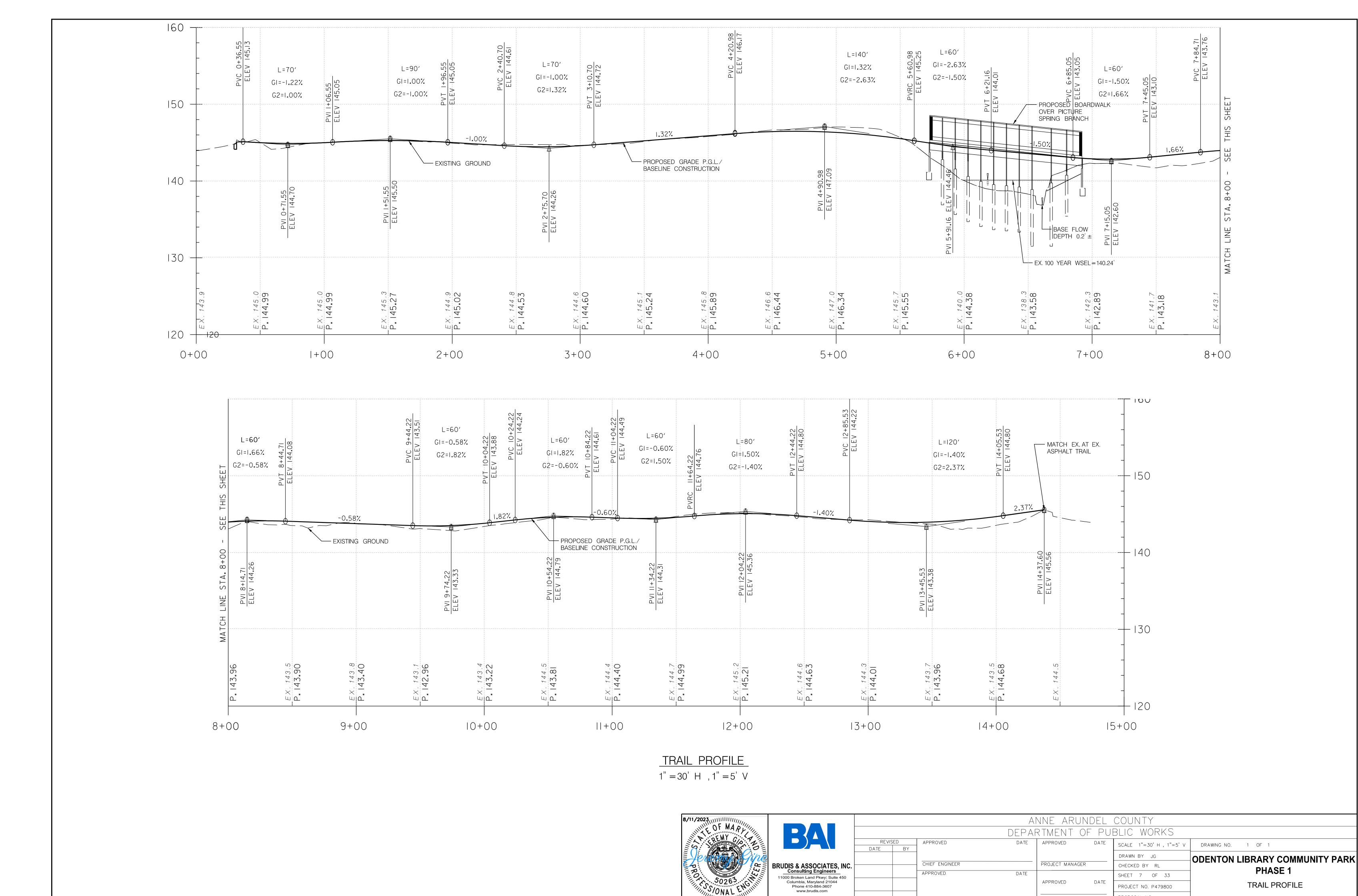
8/11/2023				ANNE ARUNDEL ARTMENT OF PU		
S CALLED CONTROL OF THE SECOND CONTROL OF TH		REVISED DATE BY	APPROVED DATE	APPROVED DATE	SCALE	DRAWING NO. 1 OF 1
The state of the s	BRUDIS & ASSOCIATES, INC.				DRAWN BY JG	ODENTON LIBRARY COMMUNITY PARK
E 0:	Consulting Engineers		CHIEF ENGINEER	PROJECT MANAGER	CHECKED BY RL	PHASE 1
	11000 Broken Land Pkwy; Suite 450 Columbia, Maryland 21044 Phone 410-884-3607		APPROVED DATE		SHEET 2 OF 33	PHASE I
SIONAL ENGLISH	www.brudis.com			APPROVED DATE	PROJECT NO. P479800	GENERAL NOTES AND ABBREVIATIONS
MINIMUM IN THE STATE OF THE STA			ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT OF WAY	PROPOSAL NO.	







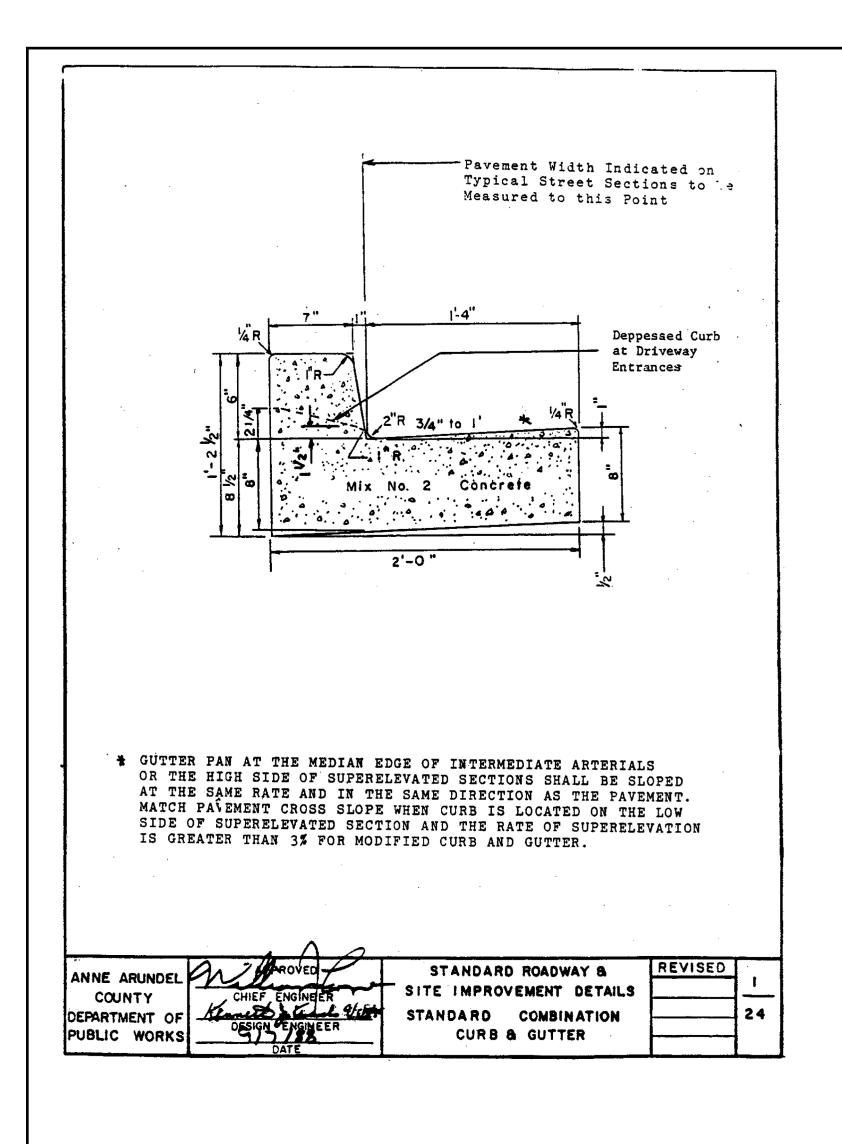


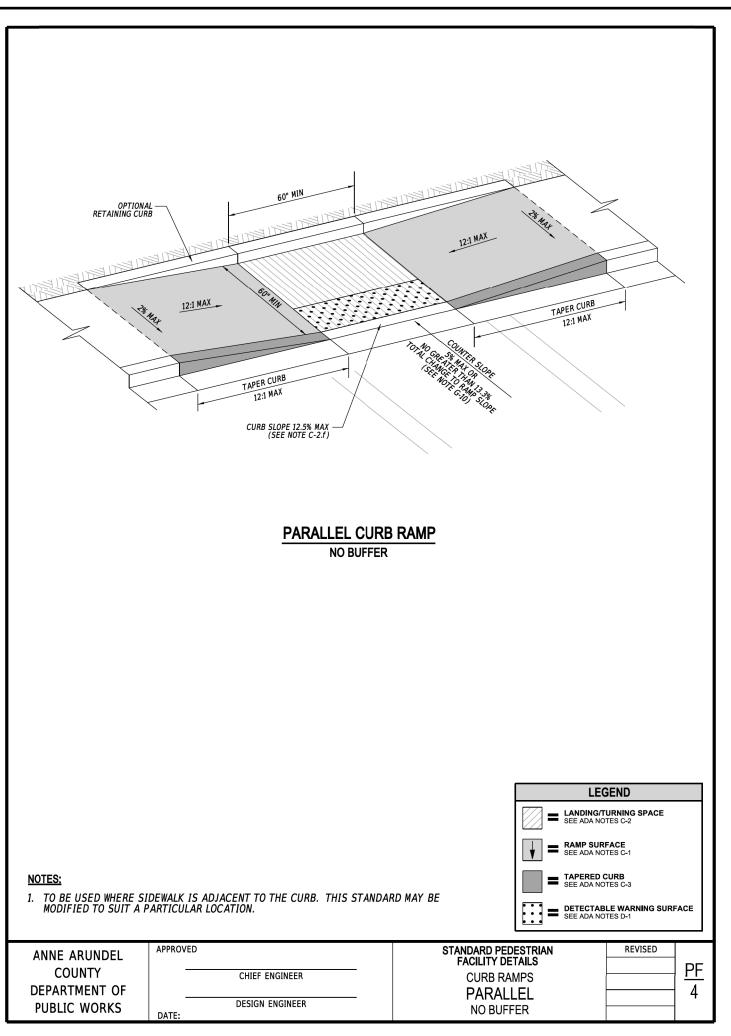


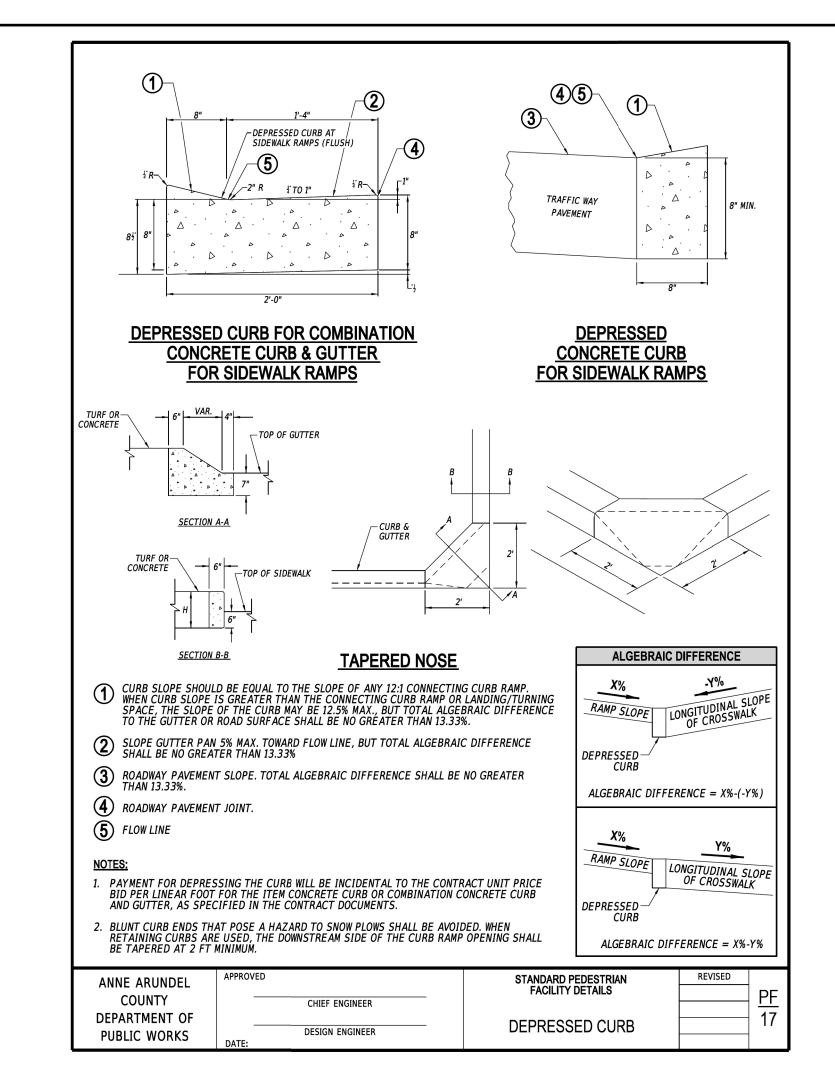
ASSISTANT CHIEF ENGINEER

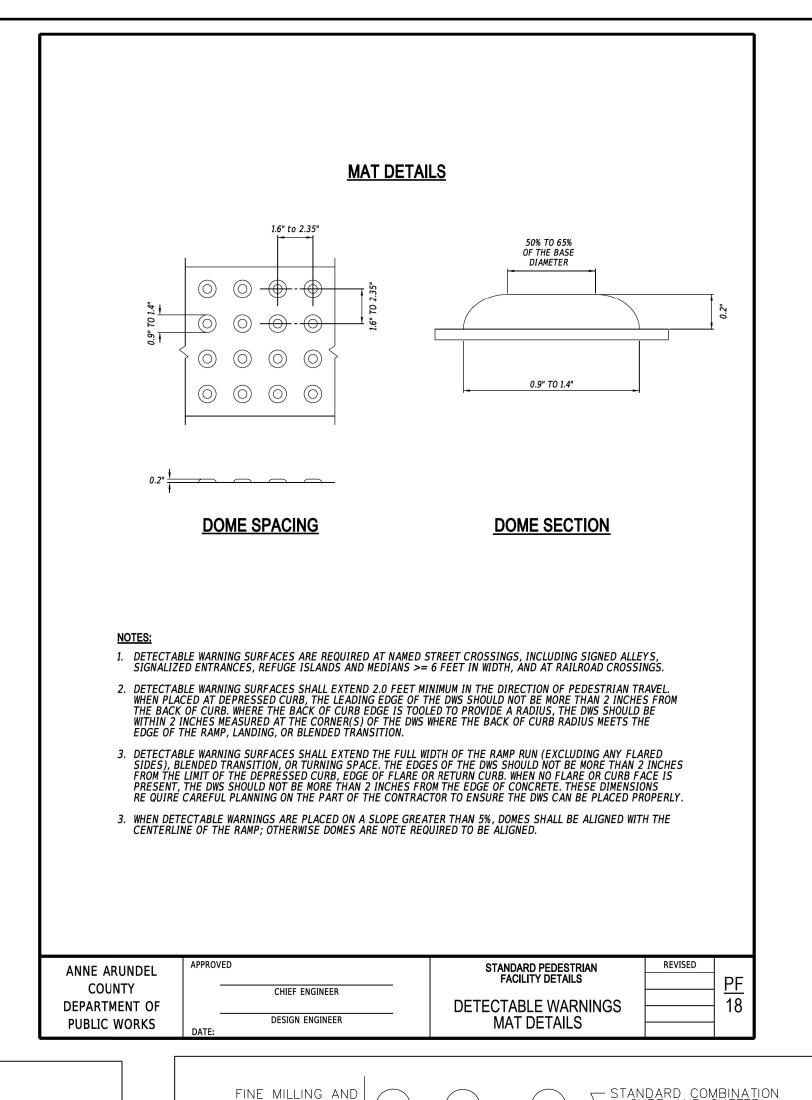
PROPOSAL NO.

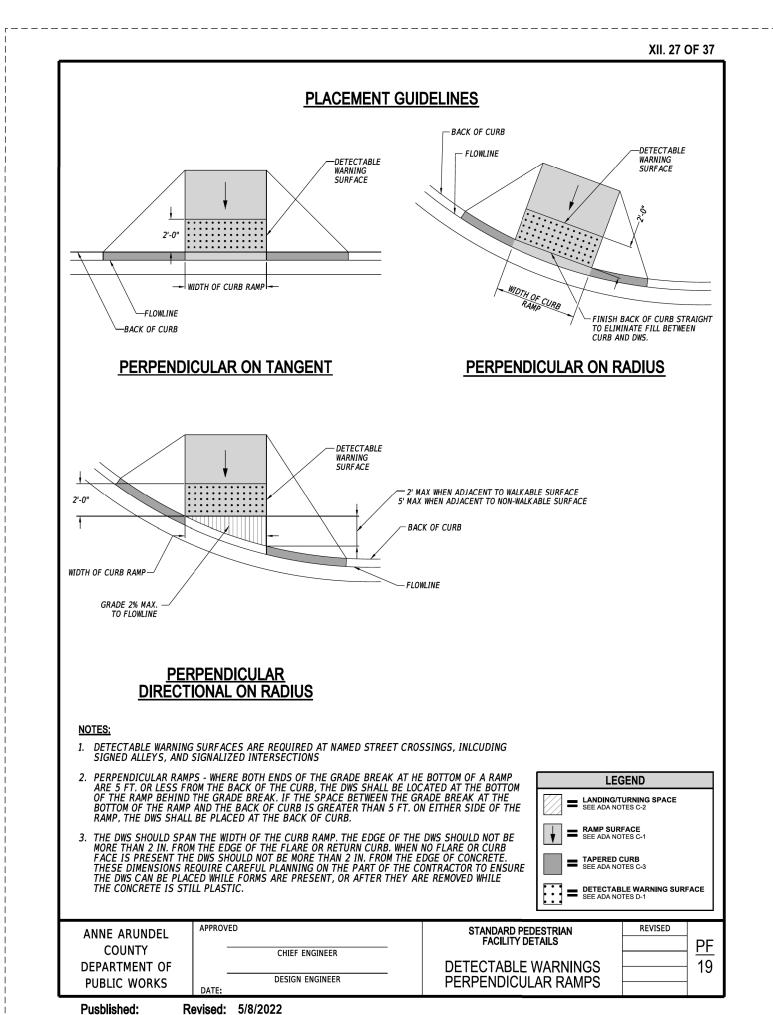
CHIEF, RIGHT OF WAY

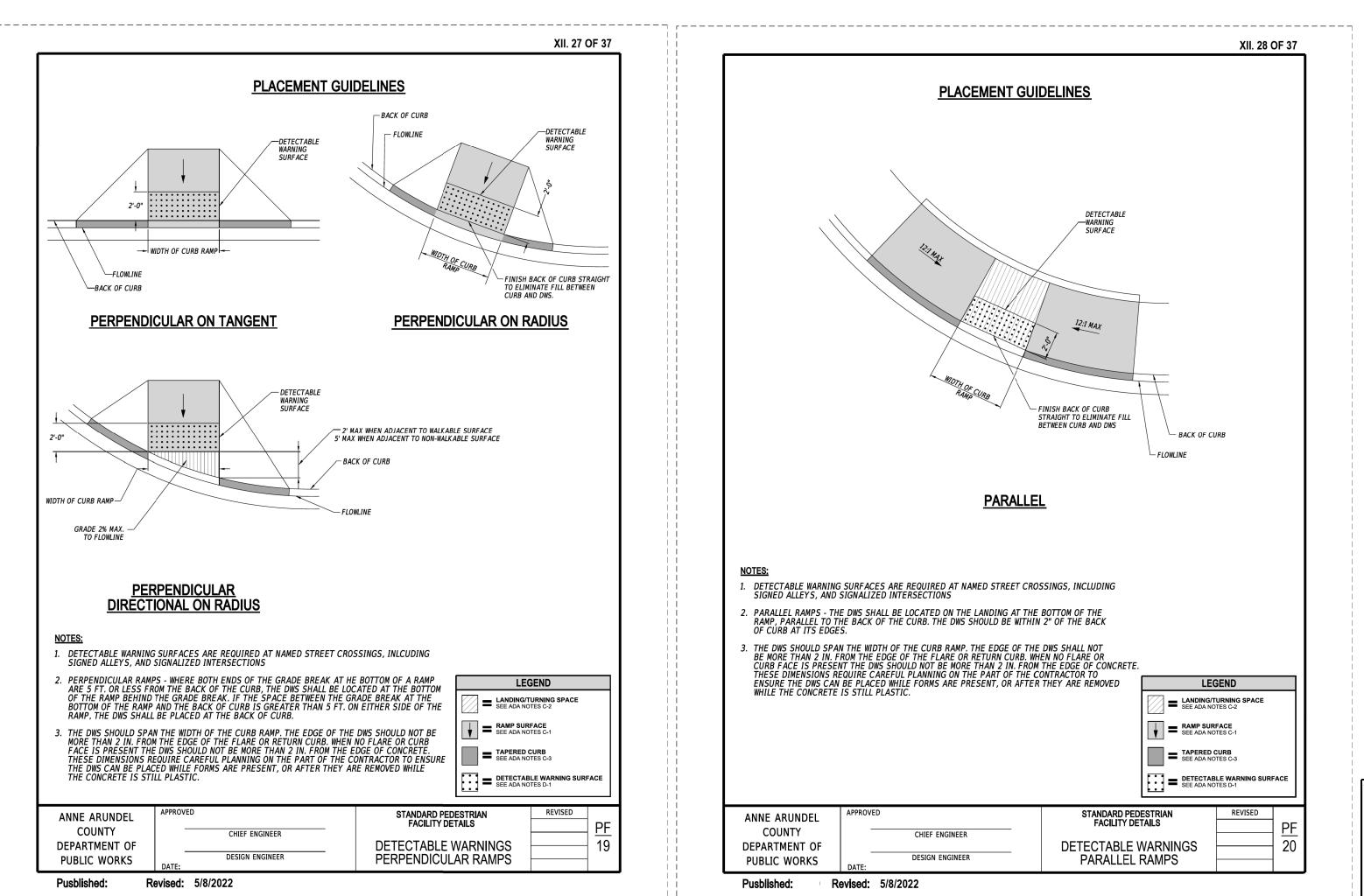


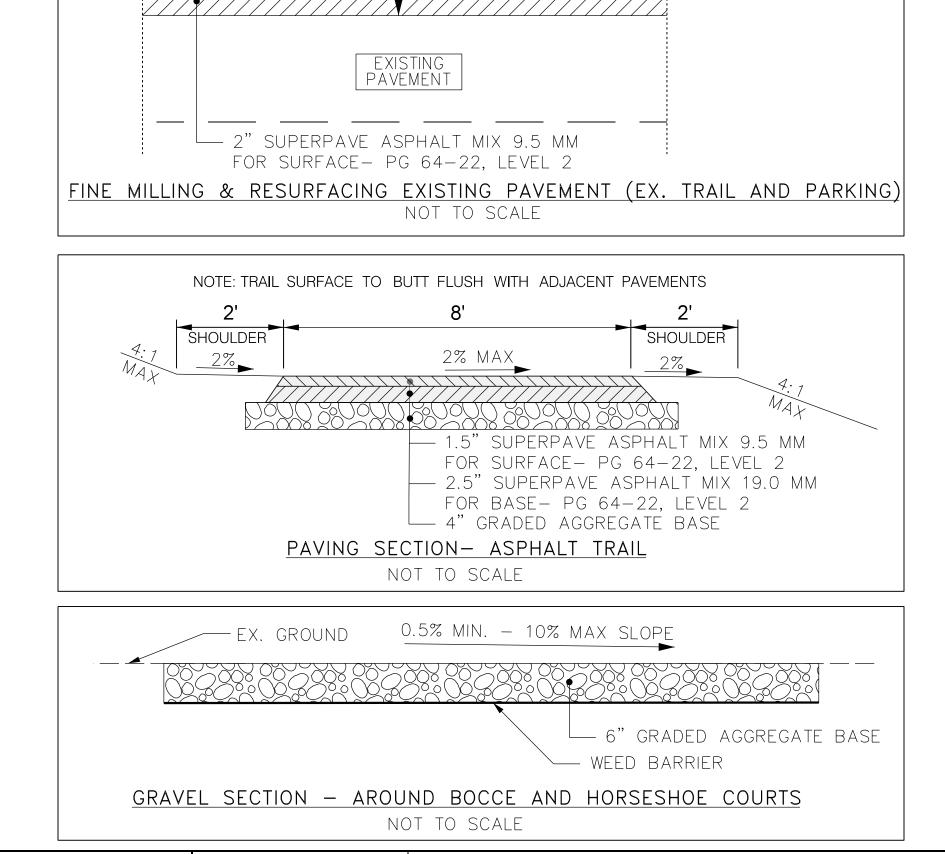






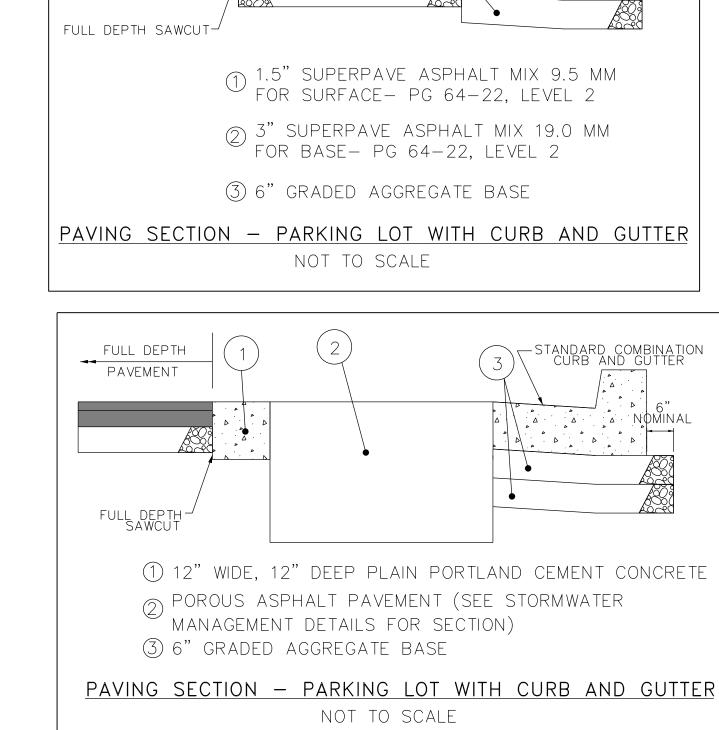


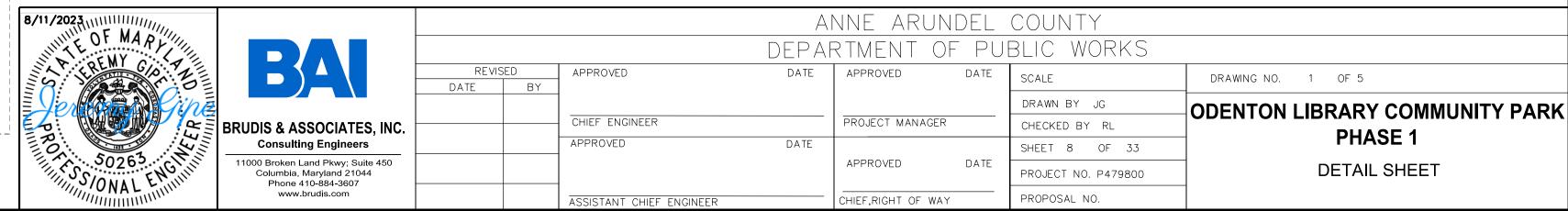


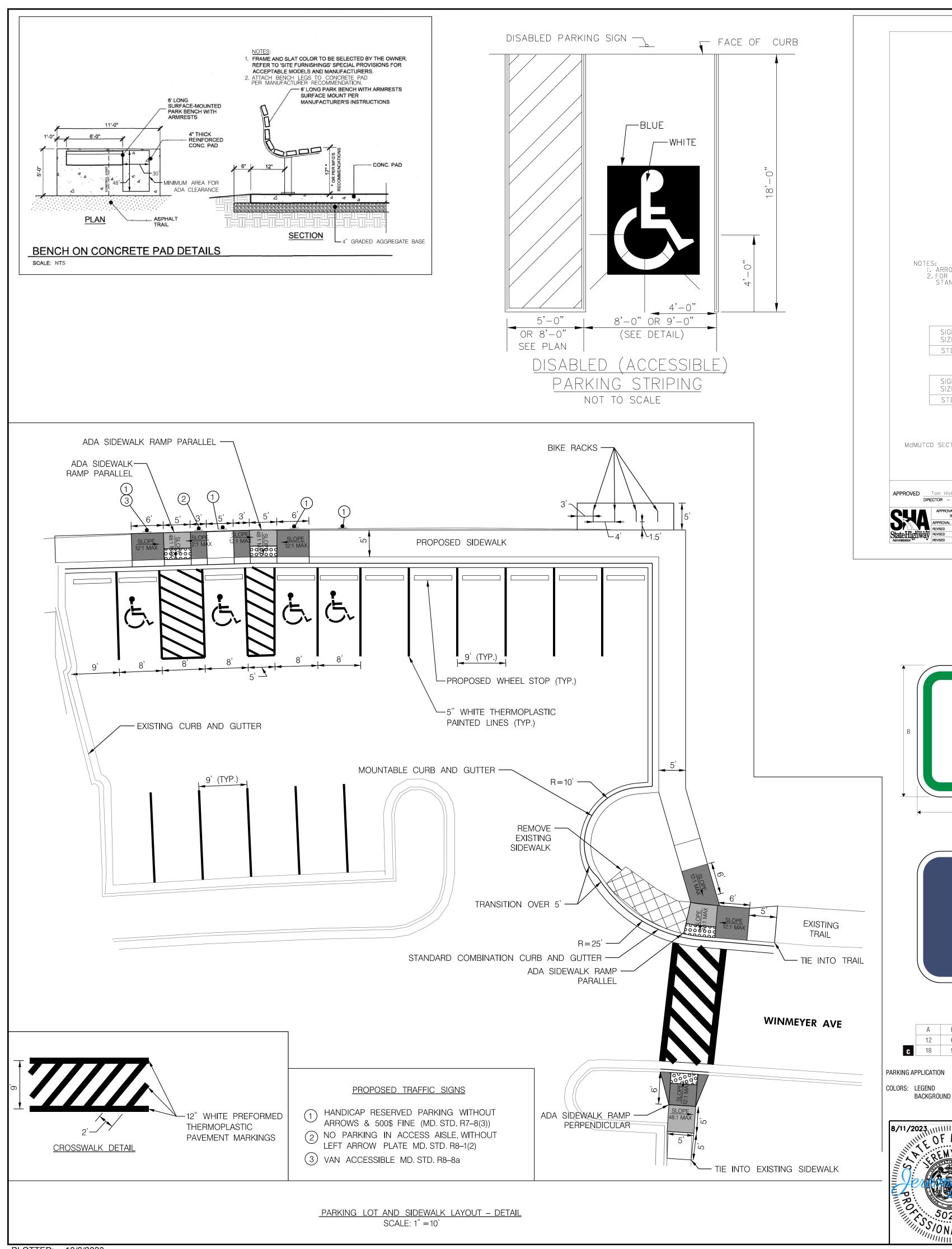


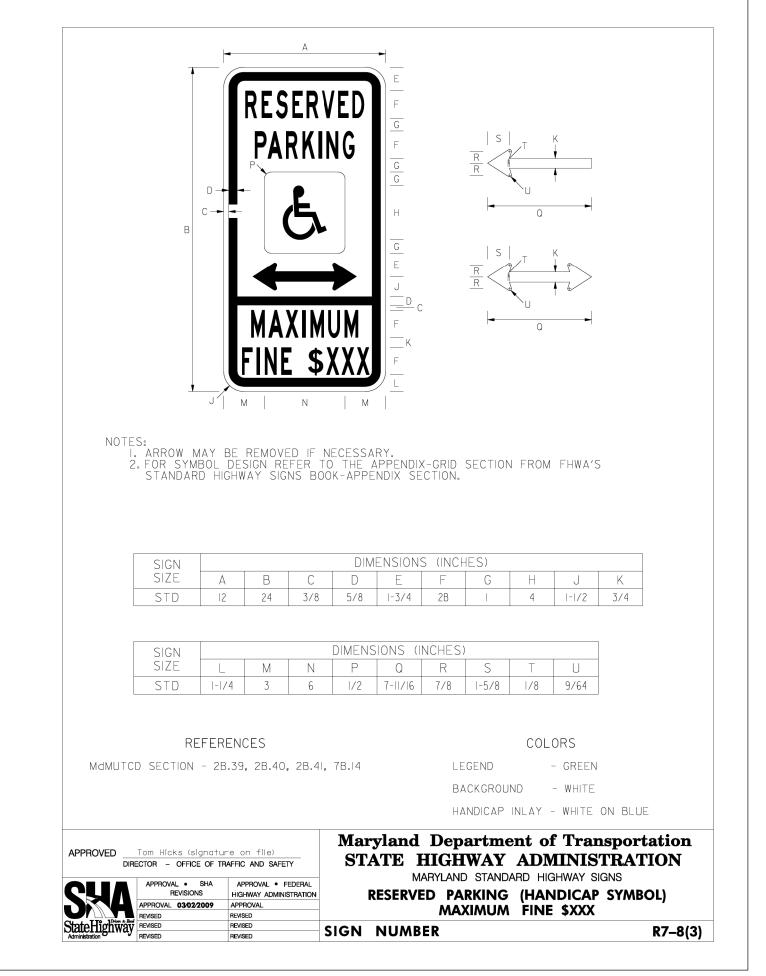
TOP OF EX.

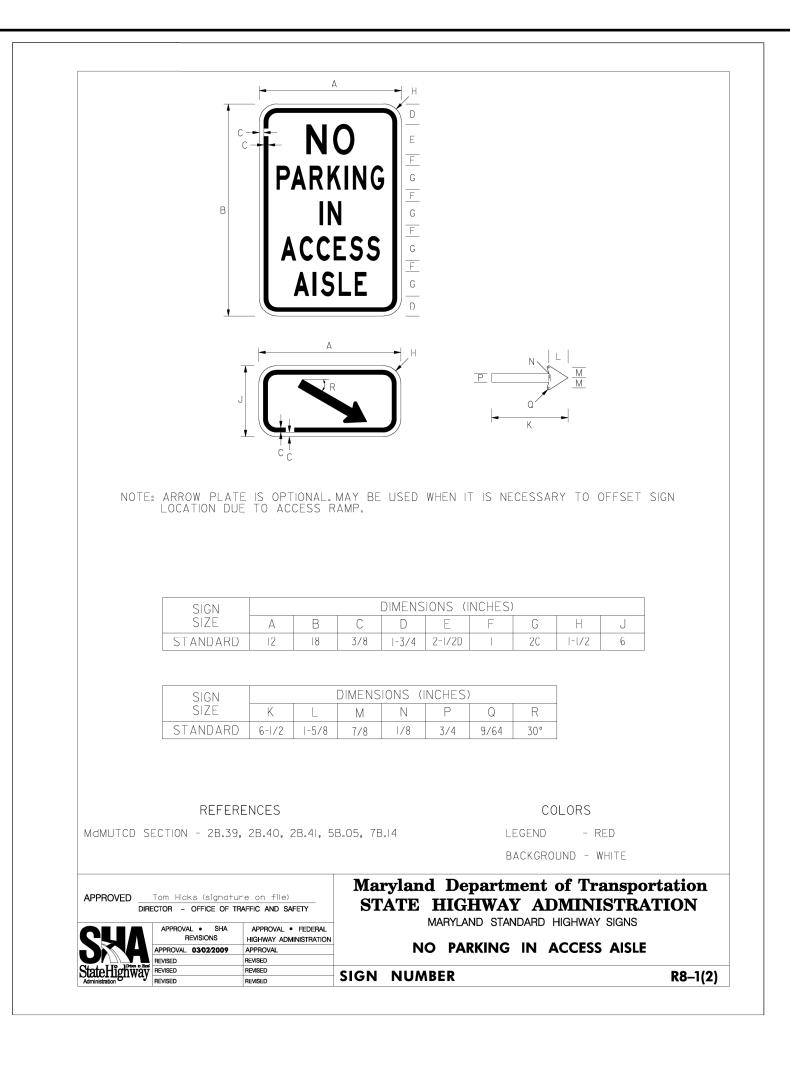
- PAVEMENT AFTER 2" FINE MILLING

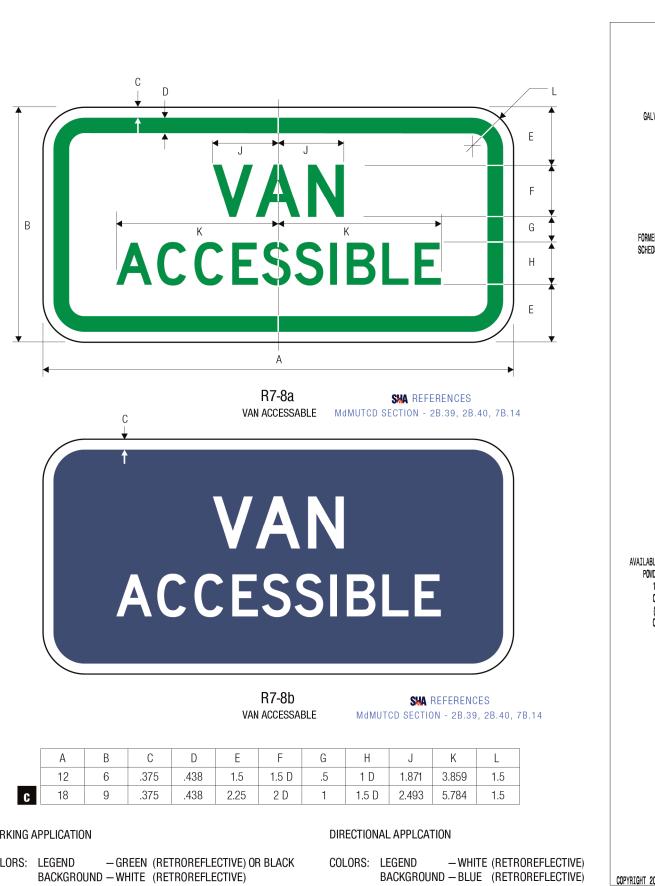


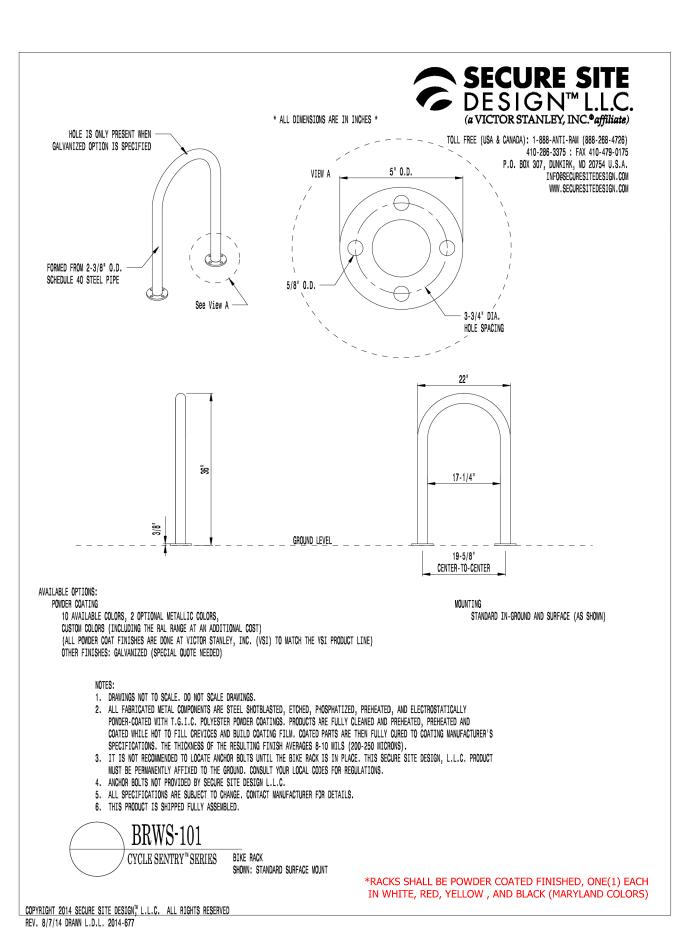










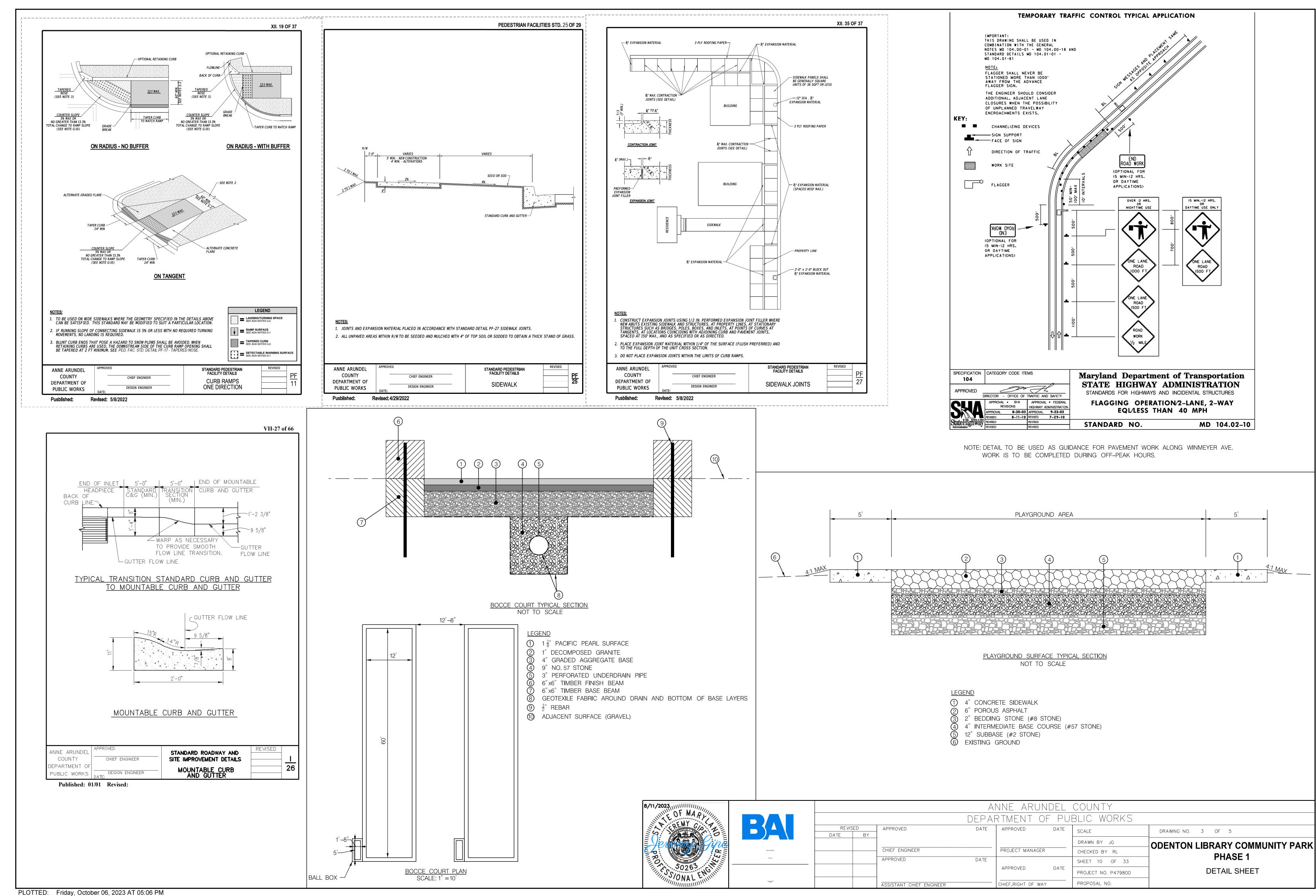


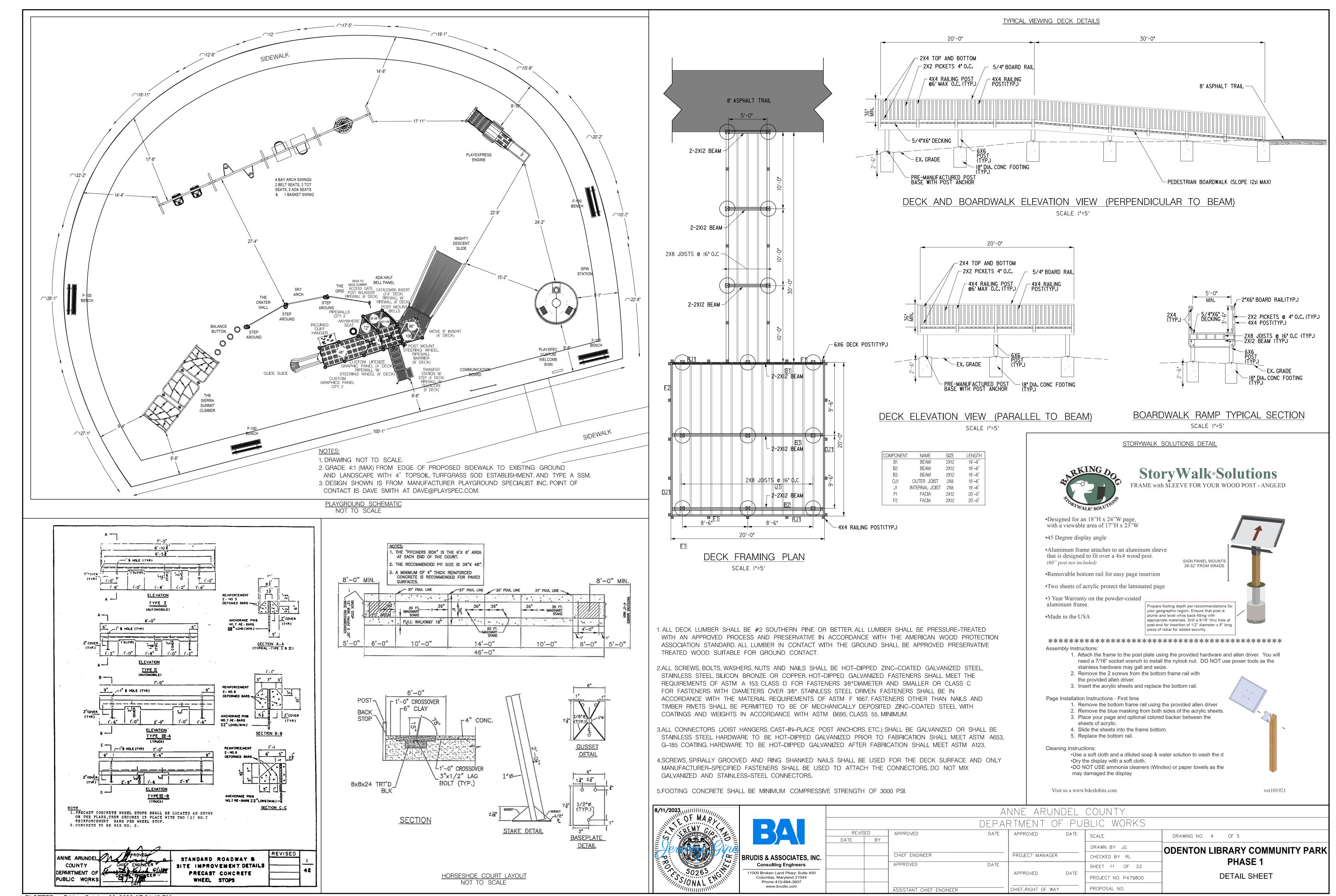
PARKING LOT IS
MADE OF POROUS
PAVEMENT TO
REDUCE STORMWATER
RUNOFF. DO NOT USE
ABRASIVES ON THE
SURFACE OR
RESURFACE OR SEAL

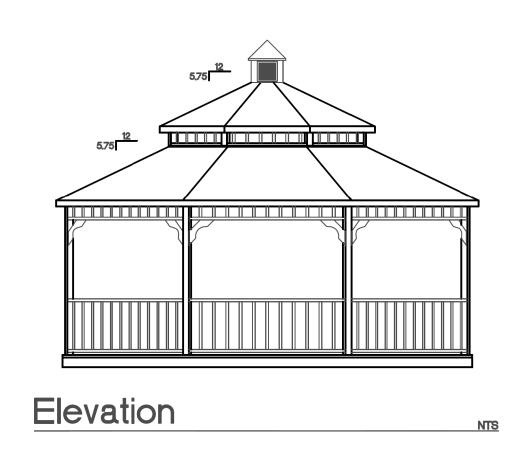
SWM_SIGN_DETAIL

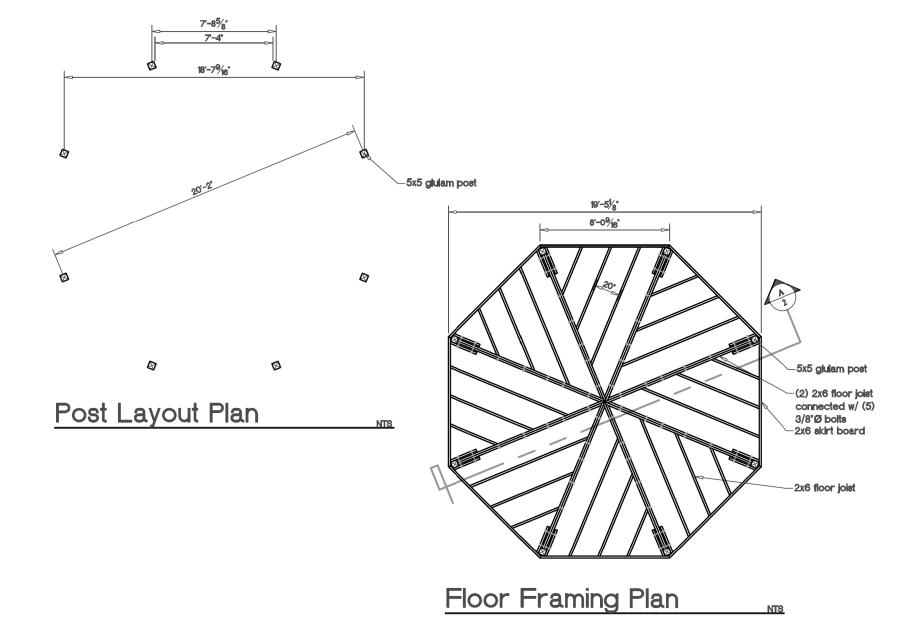
NOT TO SCALE

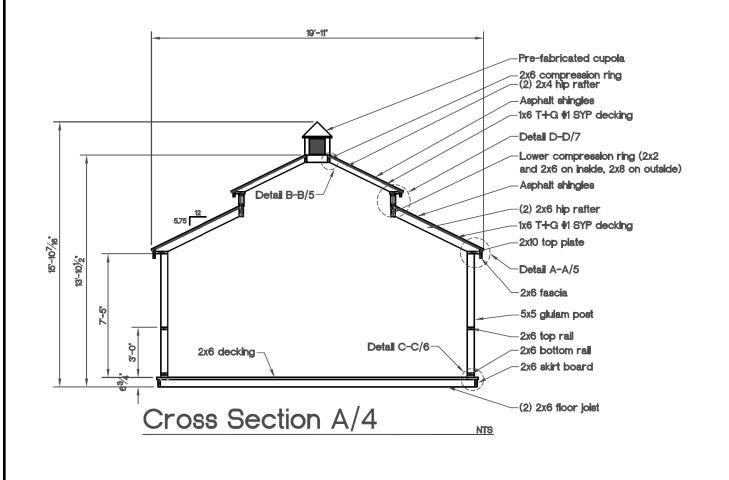
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS DATE APPROVED REVISED APPROVED DATE DATE BY DRAWN BY JG **ODENTON LIBRARY COMMUNITY PARK** CHIEF ENGINEER PROJECT MANAGER CHECKED BY RL BRUDIS & ASSOCIATES, INC PHASE 1 APPROVED Consulting Engineers SHEET 9 OF 33 1000 Broken Land Pkwy; Suite 450 APPROVED DATE **DETAIL SHEET** PROJECT NO. P479800 Phone 410-884-3607 PROPOSAL NO. ASSISTANT CHIEF ENGINEER CHIEF, RIGHT OF WAY

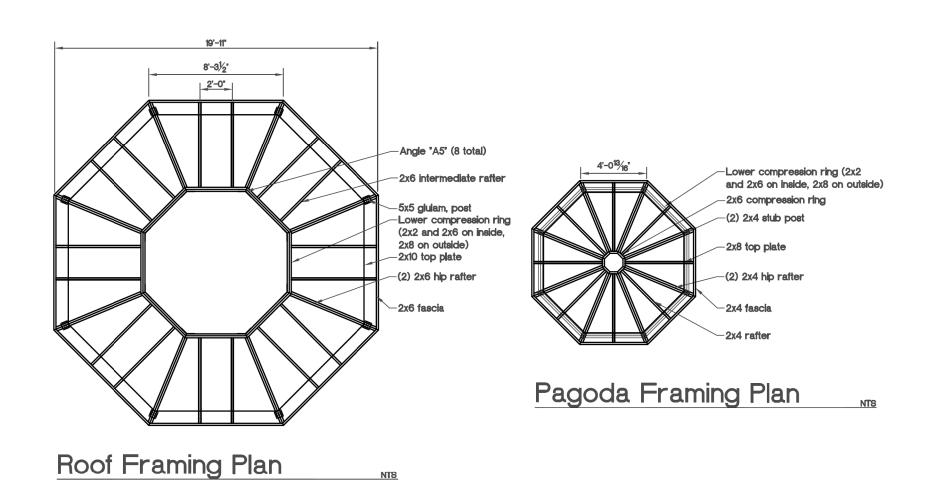










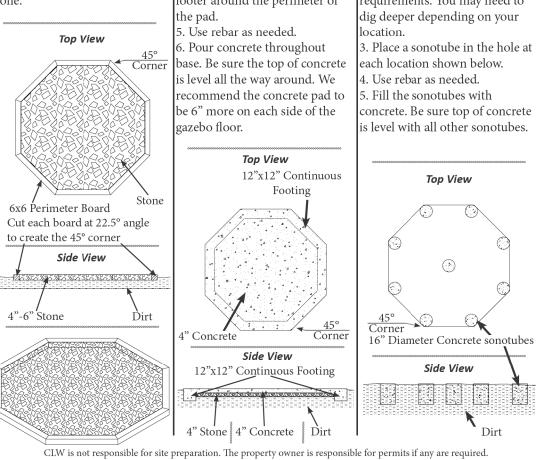


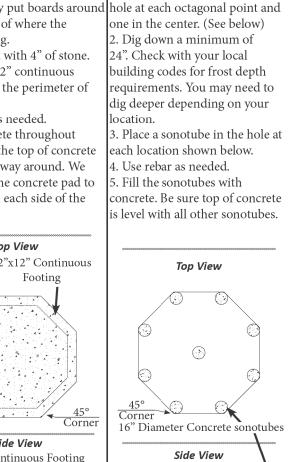
OCTAGON GAZEBO SITE PREPARATION **RECOMMENDATIONS**

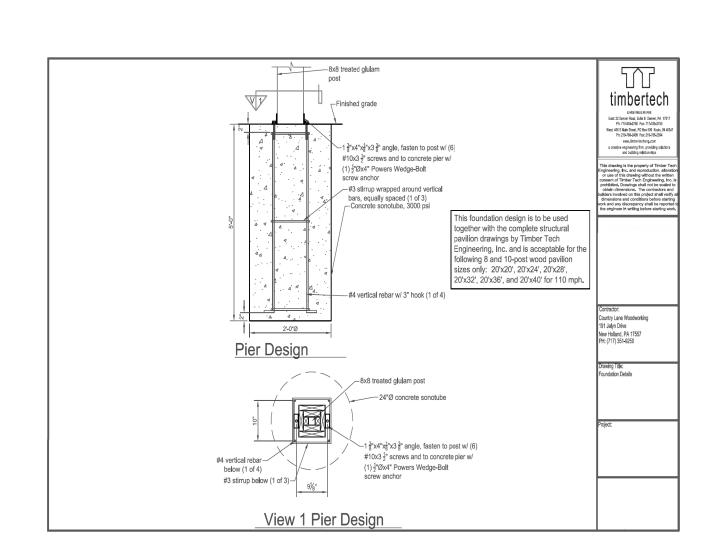
It is important to have a solid and level foundation for your gazebo. Check the gazebo drawings to get the measurements for the foundation.

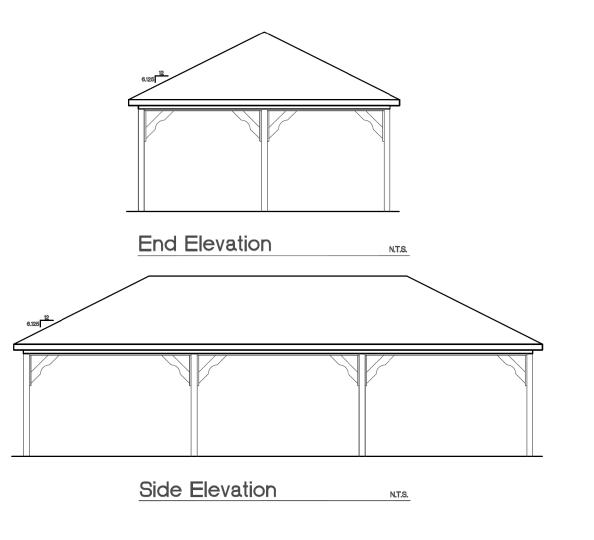
Check with your local building officials and follow all local building codes. For gazebos that need an engineered seal, please ask for engineered foundation instructions.

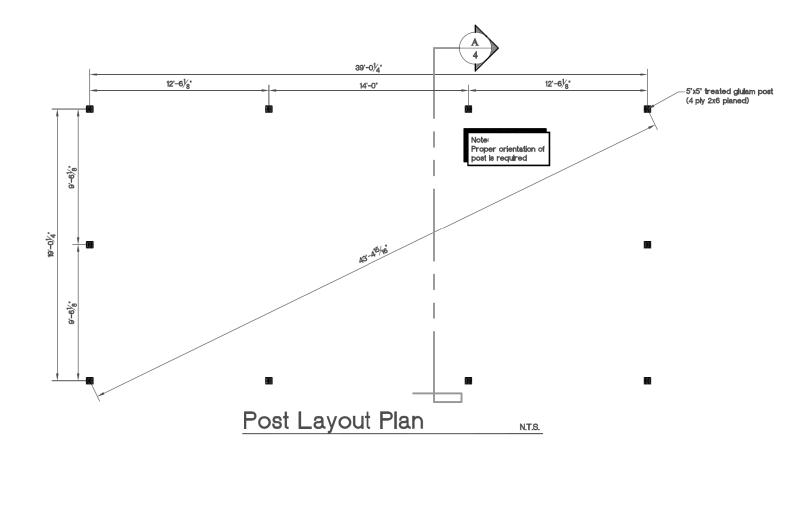
The instructions shown here are only the minimum recommendations. Stone Pad Concrete Pad Concrete Sonotube Dig out 8" of ground. 1. Dig out 4"-6" of ground. . Dig a minimum 16" diameter d hole at each octagonal point and 2. Lay treated 6x6 boards around 2. Temporarily put boards arou the perimeter of where the gazebo the perimeter of where the one in the center. (See below) gazebo is going. 2. Dig down a minimum of 3. Fill the area with 4"-6" of stone. 3. Fill the area with 4" of stone. 24". Check with your local We recommend using ¾" clean 4. Dig a 12"x12" continuous building codes for frost depth footer around the perimeter of dig deeper depending on your 5. Use rebar as needed. Top View . Pour concrete throughout base. Be sure the top of concrete each location shown below. is level all the way around. We 4. Use rebar as needed. ecommend the concrete pad to 5. Fill the sonotubes with be 6" more on each side of the gazebo floor.

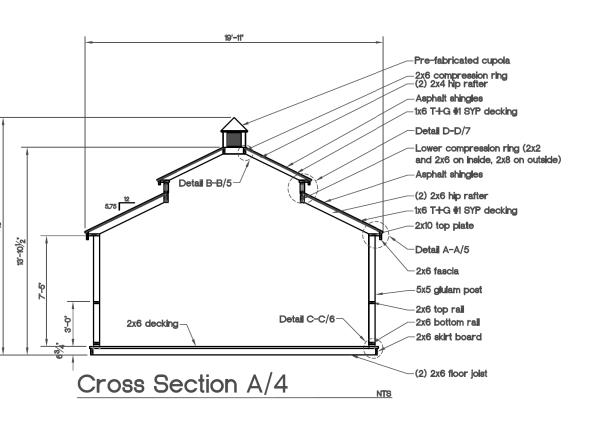


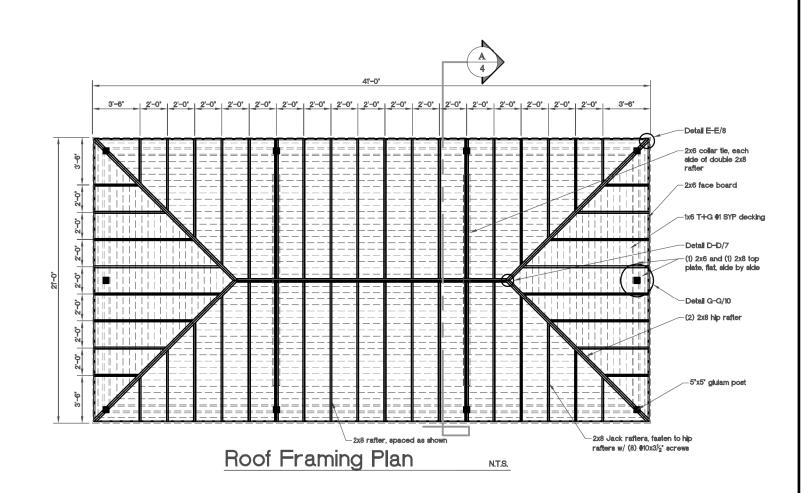










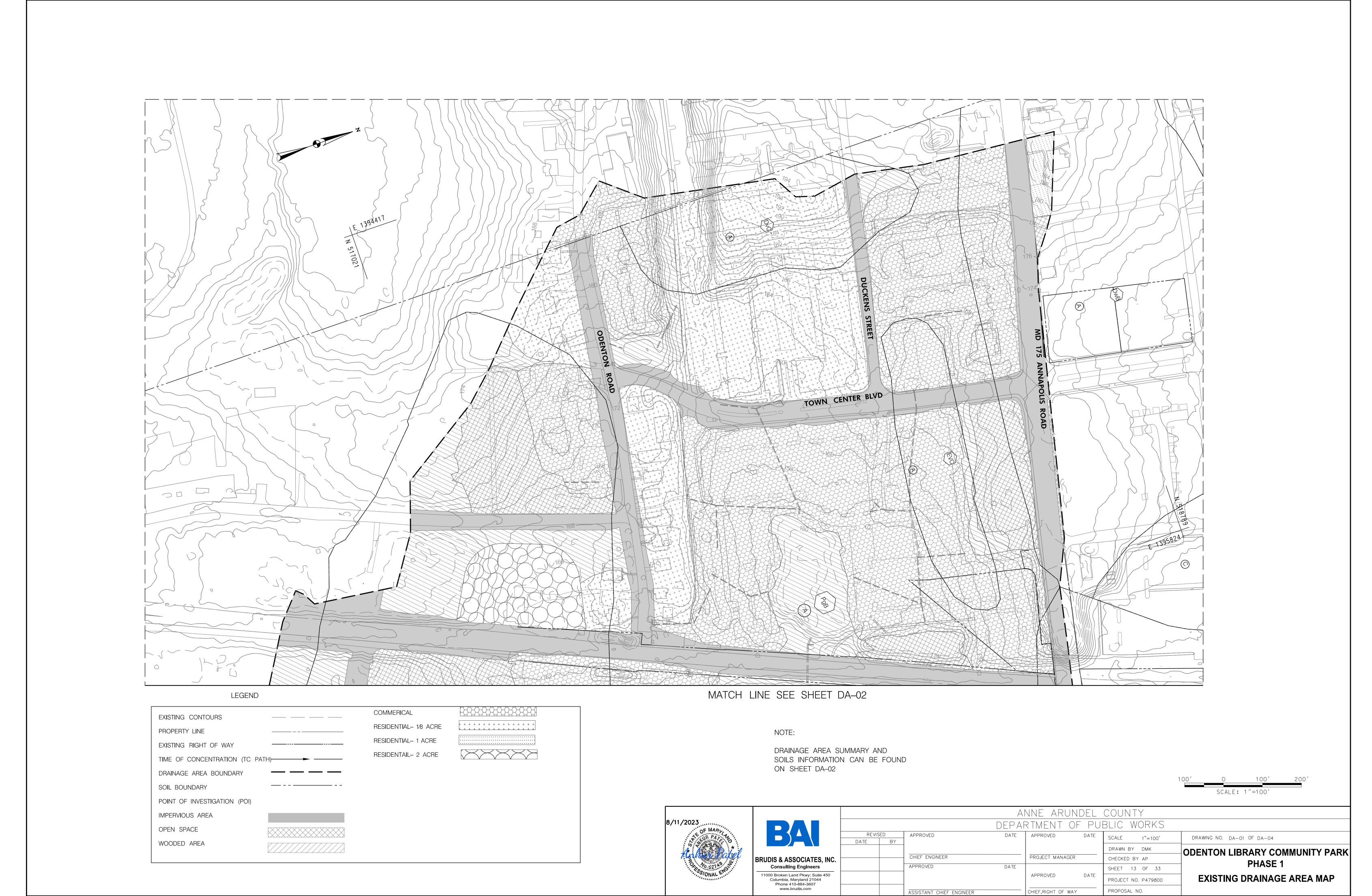


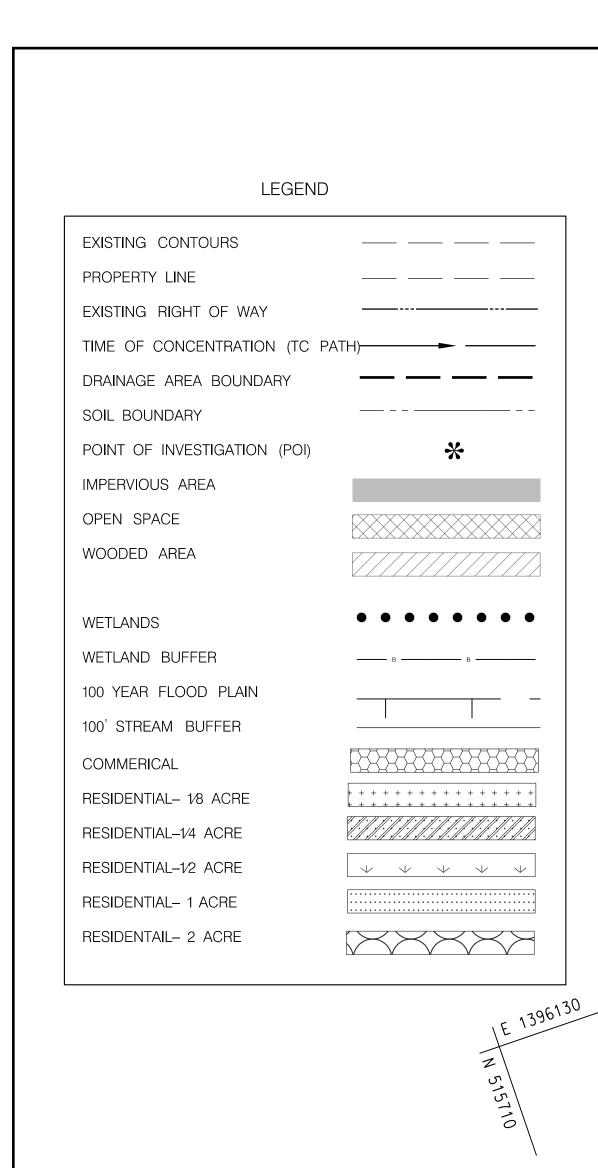
PAVILION SPECIFICATIONS



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=	BRUDIS & ASSOCIATES, INC.	
"""	Consulting Engineers	
	11000 Broken Land Pkwy; Suite 450 Columbia, Maryland 21044	
	Phone 410-884-3607 www.brudis.com	

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				DEPA	RTMENT C)F PU	BLIC WORKS	
	REVIS	ED	APPROVED	DATE	APPROVED	DATE	SCALE	DRAWING NO. 5 OF 5
	DATE	BY						
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c.			CHIEF ENGINEER		PROJECT MANAGE	R	CHECKED BY RL	
_			APPROVED	DATE			SHEET 12 OF 33	PHASE 1
					APPROVED	DATE	PROJECT NO. P479800	DETAIL SHEET
			ASSISTANT CHIEF ENGINEER		CHIEF RIGHT OF WA		PROPOSAL NO.	

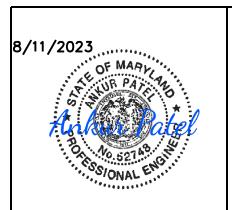






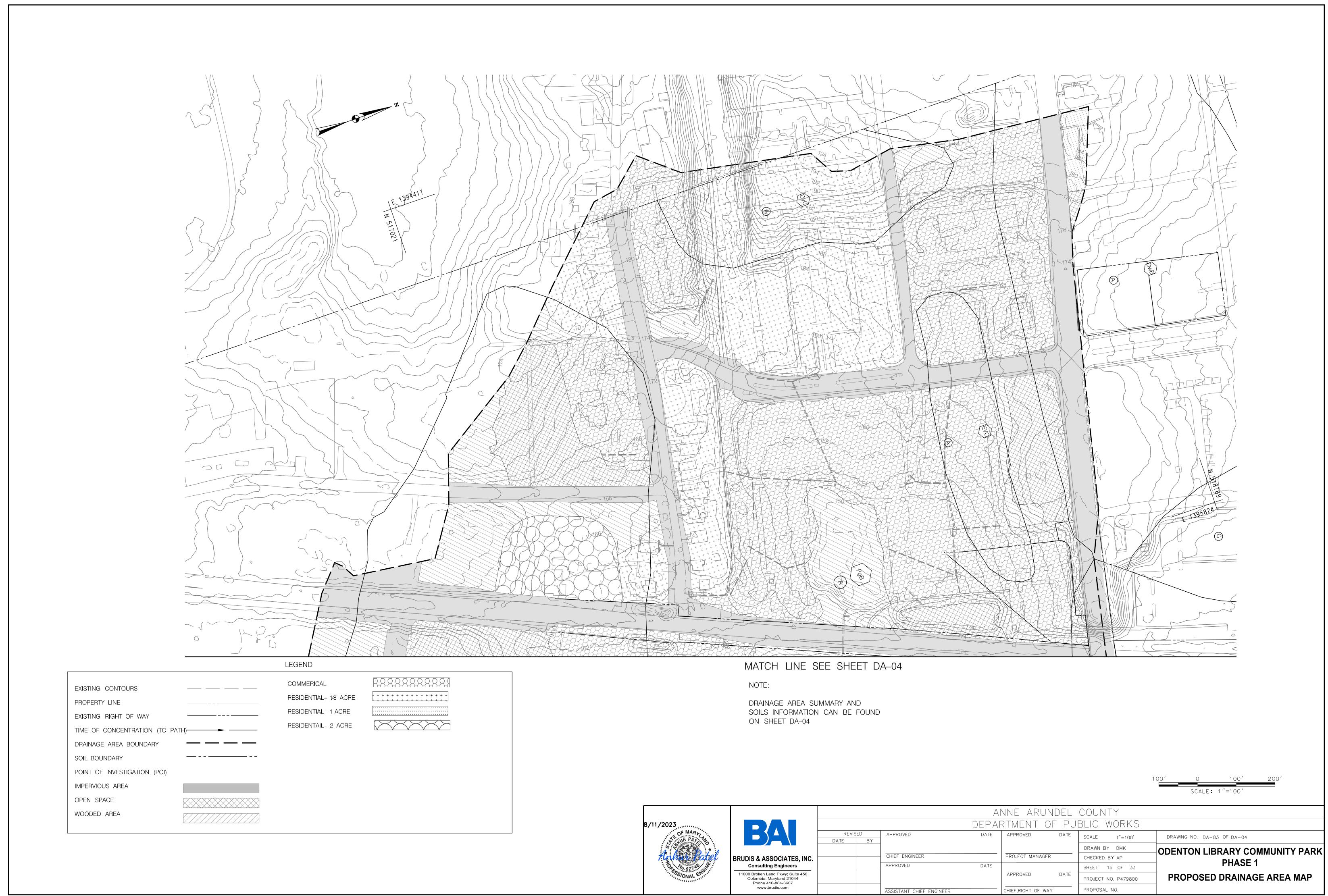
DRAINAGE AREA SUMMARY						
DA ID	AREA (ACRES)	Tc (HOURS)	Q10 (CFS)	CN	OUTFALL	
1	87.93	0.450	133.63	64	60" RCP	
2	0.42	0.200	0.00	37	DITCH	

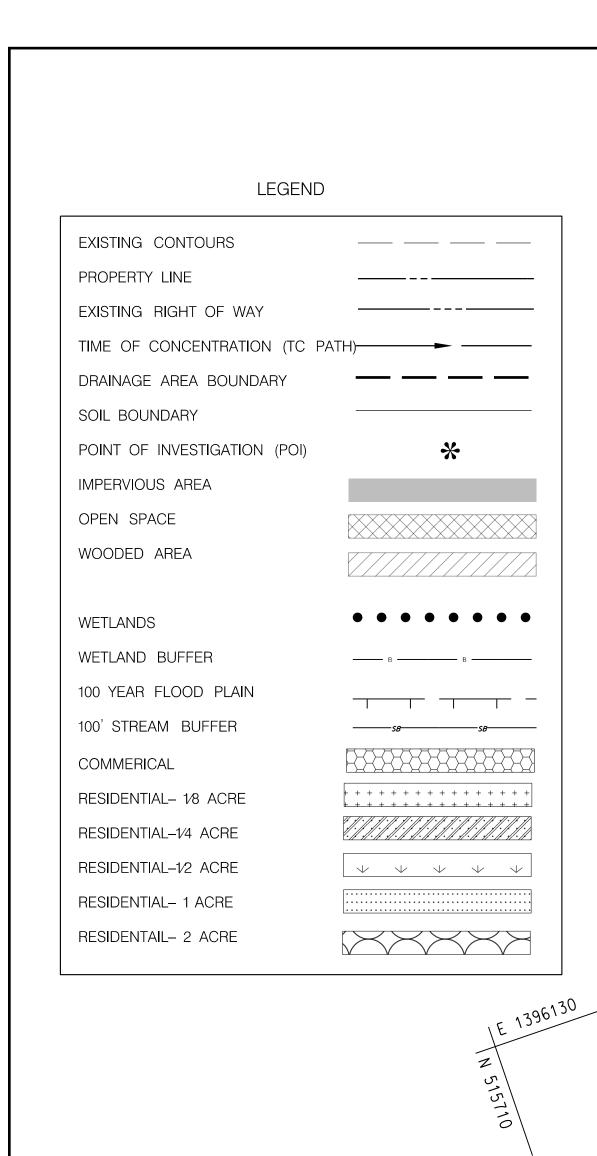
	HYDROLOGIC SOIL GROUP SUMMARY	
SOIL MAP UNIT SYMBOL	SOIL NAME	RATING
DvC	DOWNER-HAMMONTON COMPLEX, 5 TO 10 PERCENT SLOPES	Α
DwB	DOWNER-HAMMONTON-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES	Α
EVC	EVESBORO AND GALESTOWN SOILS, 5 TO 10 PERCENT SLOPES	Α
PeB	PATAPSCO-EVESBORO-FORT MOTT COMPLEX, 0 TO 5 PERCENT SLOPES	Α
PfB	PATAPSCO-FORT MOTT COMPLEX, 0 TO 5 PERCENT SLOPES	Α
PgB	PATAPSCO-FORT MOTT-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES	Α
RhB	RUSSETT-CHRISTIANA-HAMBROOK COMPLEX, 0 TO 5 PERCENT SLOPES	С



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	ANNE ARUNDEL COUNTY								
DEPARTMENT OF PUBLIC WORKS							WORKS		
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DATE	BY								
						DRAWN B	Y DMK	\dashv ODENTON LIBRARY COMMUNITY PARK	
		CHIEF ENGINEER		PROJECT MANAGER		CHECKED BY AP			
		APPROVED	DATE			SHEET 1	4 OF 33	PHASE 1	
				APPROVED	DATE	PROJECT NO. P479800		EXISTING DRAINAGE AREA MAP	
		ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WA	ΑΥ	PROPOSAL	_ NO.		

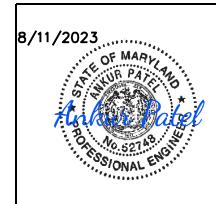






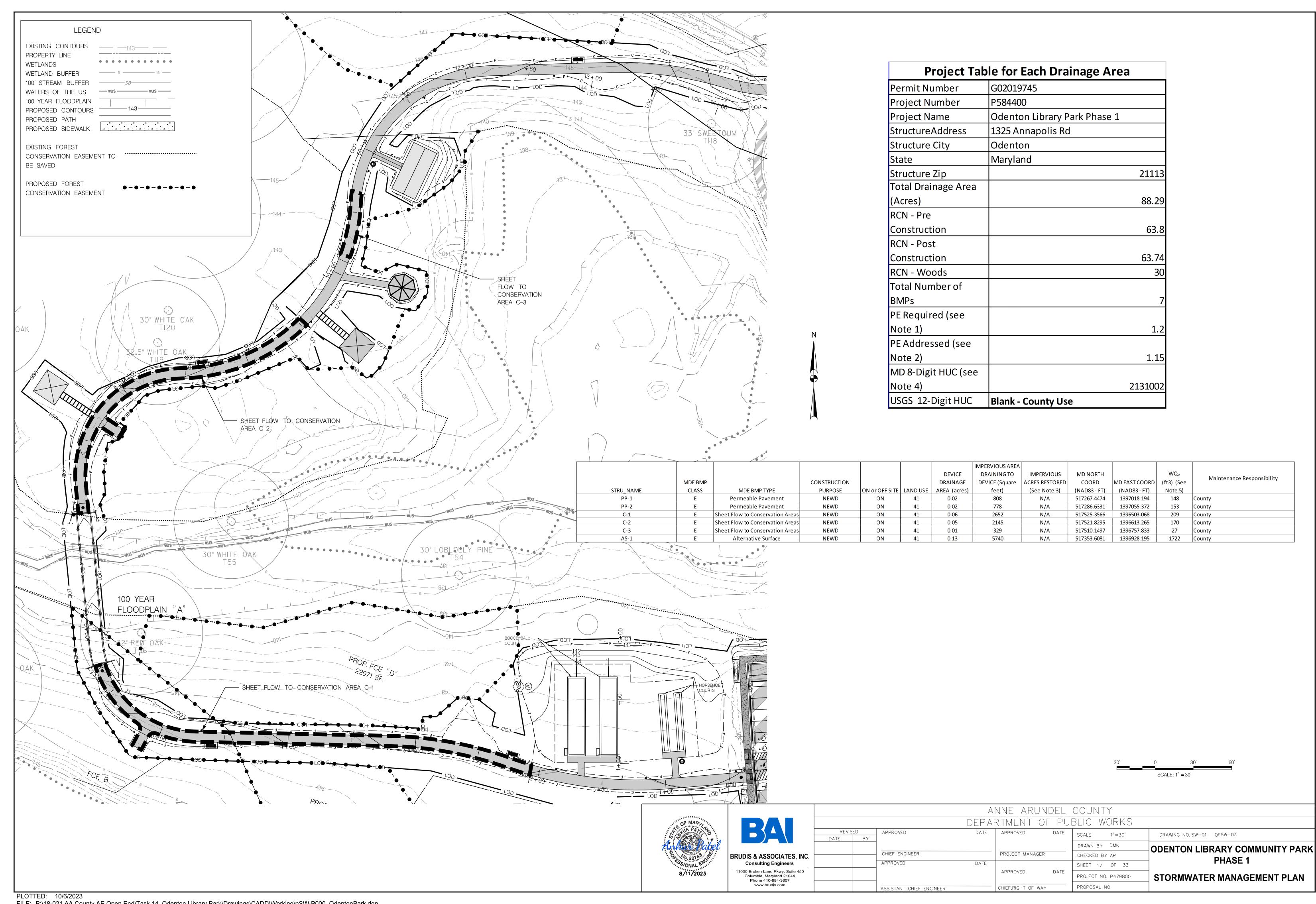
	DRAINA	GE AREA	SUMMA	λRY	
DA ID	AREA (ACRES)	Tc (HOURS)	Q10 (CFS)	CN	OUTFALL
1	87.63	0.450	133.28	64	60" RCP
2	0.65	0.200	0.21	44	DITCH

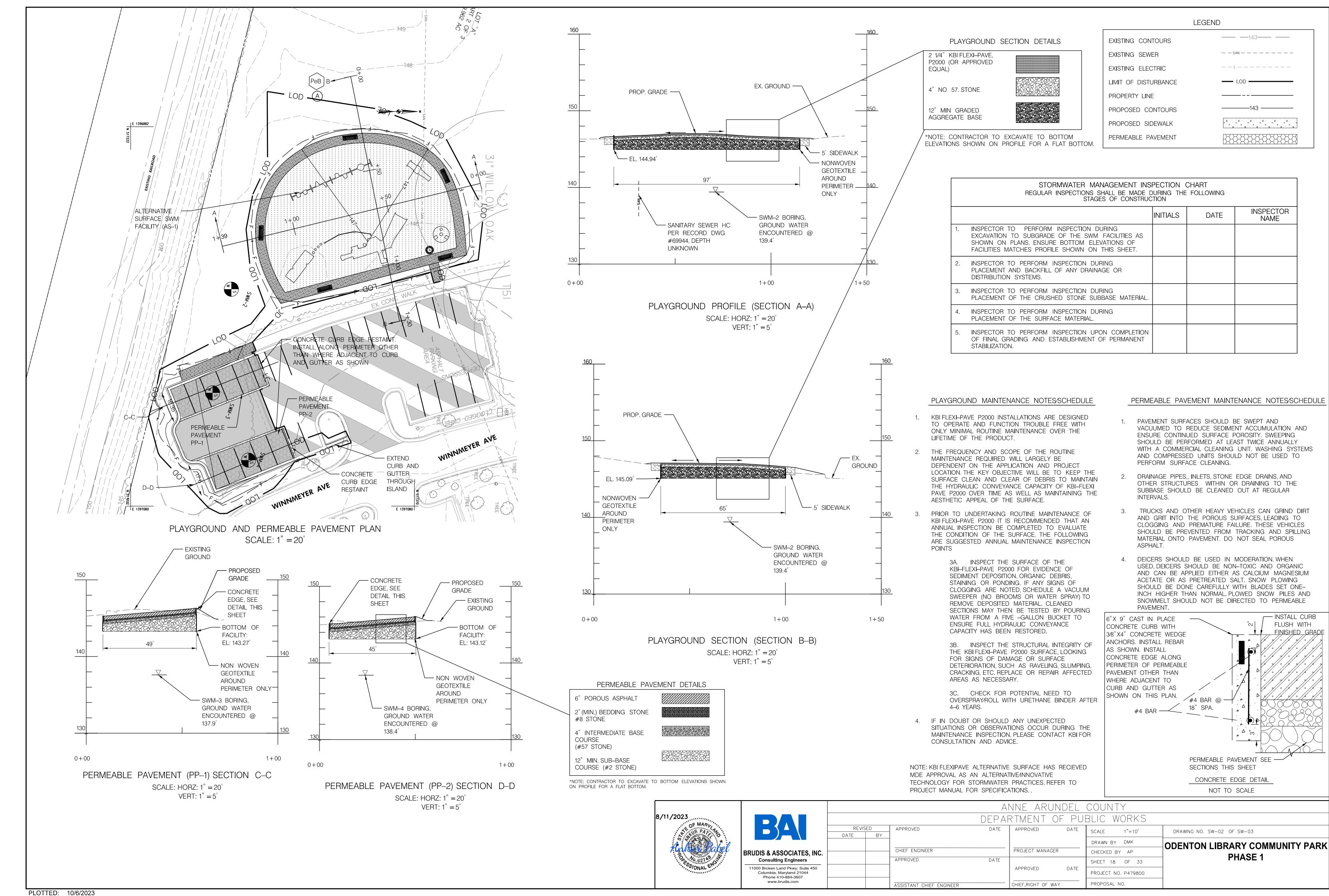
	HYDROLOGIC SOIL GROUP SUMMARY	
SOIL MAP UNIT SYMBOL	SOIL NAME	RATING
DvC	DOWNER-HAMMONTON COMPLEX, 5 TO 10 PERCENT SLOPES	Α
DwB	DOWNER-HAMMONTON-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES	Α
EVC	EVESBORO AND GALESTOWN SOILS, 5 TO 10 PERCENT SLOPES	Α
PeB	PATAPSCO-EVESBORO-FORT MOTT COMPLEX, 0 TO 5 PERCENT SLOPES	Α
PfB	PATAPSCO-FORT MOTT COMPLEX, 0 TO 5 PERCENT SLOPES	Α
PgB	PATAPSCO-FORT MOTT-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES	Α
RhB	RUSSETT-CHRISTIANA-HAMBROOK COMPLEX, 0 TO 5 PERCENT SLOPES	С

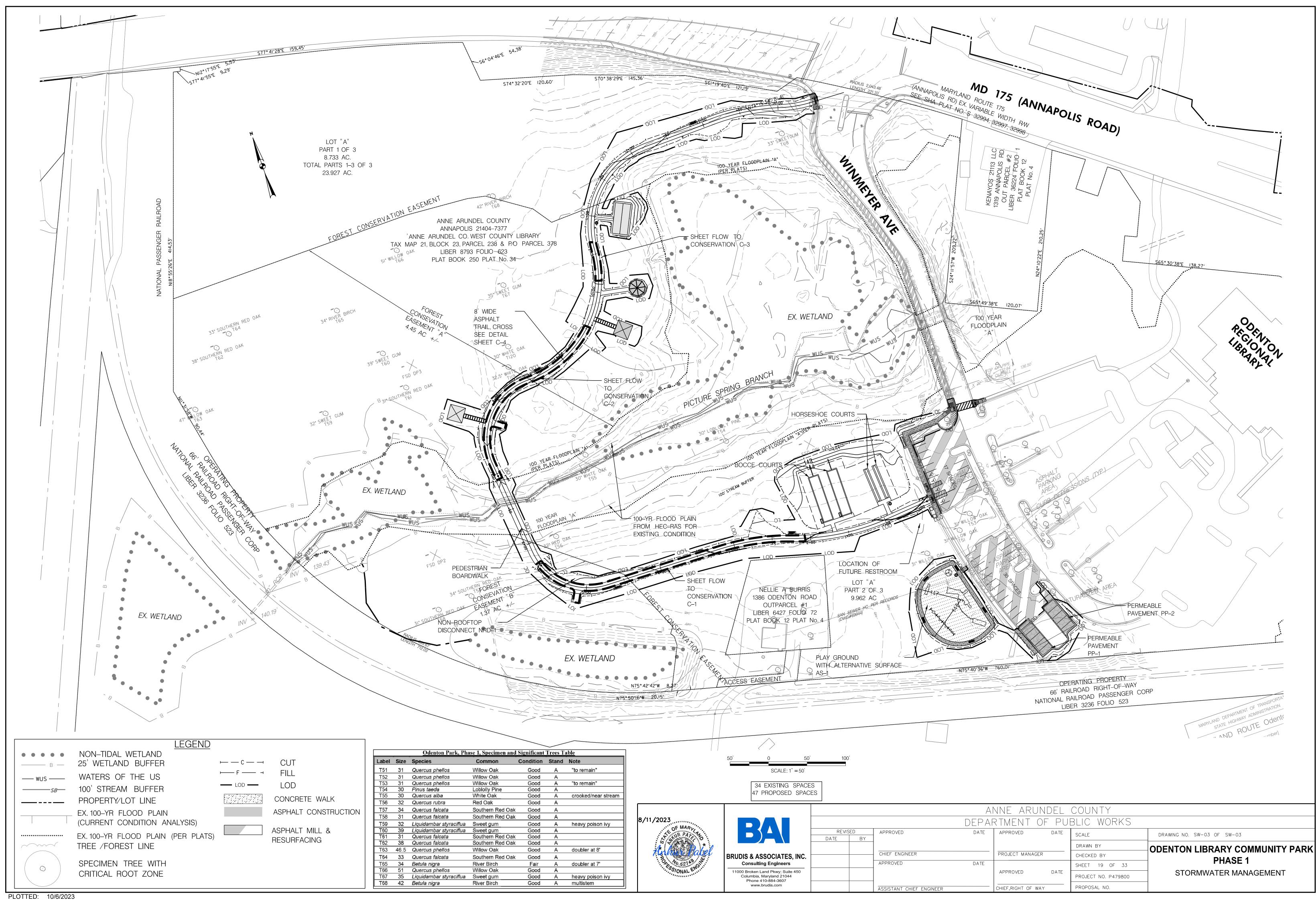


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11000 Broken Land Pkwy; Suite 450 Columbia, Maryland 21044 Phone 410-884-3607	

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		DEPARTMENT OF PUBLIC WOF						
REVIS		APPROVED	DATE	APPROVED	DATE	SCALE	1"=100'	DRAWING NO. DA-04 OF DA-04
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		AFFROVED	DATE	A DDD OVED	DATE	SHEET 16	6 OF 33	
				APPROVED	DATE	PROJECT N	NO. P479800	PROPOSED DRAINAGE AREA MAP
		ASSISTANT CHIEF ENGINEER		CHIEF,RIGHT OF \	WAY	PROPOSAL	NO.	







EROSION AND SEDIMENT CONTROL - GENERAL NOTES/SEQUENCE OF CONSTRUCTION

2018 VEGETATIVE ESTABLISHMENT

Following initial soil disturbances or redisturbance, permanent or temporary stabilization shall be completed within three calendar days for the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and seven days for all other disturbed or graded areas on the project site.

1. Permanent Seeding:

A. Soil Tests: Lime and fertilizer will be applied per soil tests results for sites greater than 5 acres. Soil tests will be done at completion of initial rough grading or as recommended by the sediment control inspector. Rates and analyses will be provided to the grading inspector as well as the contractor.

Occurrence of acid sulfate soils (grayish black color) will require covering with a minimum of 12 inches of clean soil with 6 inches minimum capping of top soil. No stockpiling of material is allowed. If needed, soil tests should be done before and after a 6-week incubation period to allow oxidation of sulfates.

The minimum soil conditions required for permanent vegetative establishment are:

- a. Soil pH shall be between 6.0 and 7.0.
- b. Soluble salts shall be less than 500 parts per million (ppm).
- c. The soil shall contain less than 40% clay but enough fine grained material (> 30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegrass or serecia lespedeza is to be planted, then a sandy soil (< 30% silt plus clay) would be acceptable.
- d. Soil shall contain 1.5% minimum organic matter by weight.
- e. Soil must contain sufficient pore space to permit adequate root penetration.
- f. If these conditions cannot be met by soils on site, adding topsoil is required in accordance with the Standard and Specification for Soil Preparation, Topsoiling and Soil Amendments from the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control or amendments made as recommended by a certified agronomist.
- B. Seedbed Preparation: Area to be seeded shall be loose and friable to a depth of at least 3-5 inches. The top layer shall be loosened by raking, disking or other acceptable means before seeding occurs. For sites less than 5 acres, apply 100 pounds dolomitic limestone and 21 pounds of 10-10-10 fertilizer per 1,000 square feet. Harrow or disk lime and fertilizer into the soil to a depth of at least 3-5 inches on slopes flatter than 3:1.
- C. Seeding: Apply 5-6 pounds per 1,000 square feet of tall fescue between February 1 and April 30 or between August 15 and October 31. Apply seed uniformly on a moist firm seedbed with a cyclone seeder, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only). Maximum seed depth should be ¼ inch in clayey soils and ½ inch in sandy soils when using other than the hydroseeder method. Irrigate where necessary to support adequate growth until vegetation is firmly established. If other seed mixes are to be used, select from Table B3 and B5 of the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
- D. Mulching: Mulch shall be applied to all seeded areas immediately after seeding. During the time periods when seeding is not permitted, mulch shall be applied immediately after grading. Mulch shall be unrotted, unchopped, small grain straw applied at a rate of 2 tons per acre or 90 pounds per 1,000 square feet (2 bales). Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch-anchoring tool is used, apply 2.5 tons per acre. Mulch materials shall be relatively free of all kinds of weeds and shall be completely free of prohibited noxious weeds. Spread mulch uniformly, mechanically or by hand, to a depth of 1-2 inches.
- E. Securing Straw Mulch: Straw mulch shall be secured immediately following mulch application to minimize movement by wind or water. The following methods are permitted:

- i. Use a mulch-anchoring tool which is designed to punch and anchor mulch into the soil surface to a minimum depth of 2 inches. This is the most effective method for securing mulch, however, it is limited to relatively flat areas where equipment can operate safely.
- ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. If mixed with water, use 50 pounds of wood cellulose fiber per 100 gallons of water.
- iii. Liquid binders may be used. Apply at higher rates at the edges where wind catches mulch, such as in valleys and on crests of slopes. The remainder of the area should appear uniform after binder application. Binders listed in the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control or approved equal shall be applied at rates recommended by the manufacturers.
- Lightweight plastic netting may be used to secure mulch. The netting will be stapled to the ground according to manufacturer's recommendations.

2. Temporary Seeding:

Lime: 100 pounds of dolomitic limestone per 1,000 square feet.

Fertilizer: 15 pounds of 10-10-10 per 1,000 square feet.

eed: Perennial rye – 0.92 pounds per 1,000 square feet (February 1 through April 30 or August 15 through October 31).

Millet – 0.92 pounds per 1,000 square feet (May 1 through August 15).

Same as 1 D and E above.

3. No fills may be placed on frozen ground. All fill is to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8 inches. All compaction requirements are in accordance to Anne Arundel County Standard Specifications for Construction as well as the AA County Design Manual and Standard Details. Fills for pond embankments shall be compacted as per MD-378 Construction Specifications. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.

4. Permanent Sod:

Installation of sod should follow permanent seeding dates. Seedbed preparation for sod shall be as noted in section (B) above. Permanent sod is to be tall fescue, state approved sod; lime and fertilizer per permanent seeding specifications and lightly irrigate soil prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Joints are to be staggered between rows. Water and roll or tamp sod to insure positive root contact with the soil. All slopes steeper than 3:1, as shown, are to be permanently sodded or protected with an approved erosion control netting. Additional watering for establishment may be required. Sod is not to be installed on frozen ground. Sod shall not be transplanted when moisture content (dry or wet) and/or extreme temperature may adversely affect its survival. In the absence of adequate rainfall, irrigation should be performed to ensure establishment of sod.

5. Mining Operations:

Sediment control plans for mining operations must include the following seeding dates and mixtures:

For seeding dates of February 1 through April 30 and August 15 through October 31, use seed mixture of tall fescue at the rate of 2 pounds per 1,000 square feet and sericea lespedeza at the minimum rate of 0.5 pounds per 1,000 square feet.

- 6. Topsoil shall be applied as per the Standard and Specifications for Soil Preparation, Topsoiling, and Soil Amendments from the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
- 7. Use of these Vegetative Establishment Specifications does not preclude the permittee or contractor from meeting all of the requirements set forth in the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.

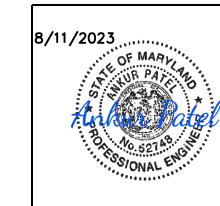
SEQUENCE OF CONSTRUCTION

GENERAL NOTES

- 1. NOTIFY THE DEPARTMENT OF INSPECTIONS AND PERMITS (410–222–7780) AT LEAST 48 HOURS BEFORE COMMENCING WORK. WORK MAY NOT COMMENCE UNTIL THE PERMITTEE OR THE RESPONSIBLE PERSONNEL HAVE MET ON SITE WITH THE SEDIMENT AND EROSION CONTROL INSPECTOR TO REVIEW THE APPROVED PLANS. (1 DAY)
- 2. IF APPLICABLE, ORANGE HIGH VISIBILITY FENCE SHALL BE MANUALLY INSTALLED ALONG THE LIMIT OF DISTURBANCE. WHERE THIS LIMIT IS WITHIN 50 FEET OF THE FOREST BUFFER/CONSERVATION EASEMENT. THIS SHALL BE COMPLETED AND INSPECTED AT, THE PRE-CONSTRUCTION MEETING. (3 DAYS)
- 3. CONTRACTOR SHALL INSTALL AN EROSION CONTROL MONITORING DEVICE WHICH WILL CONSIST OF AN IRON STAKE EMBEDDED AT LEAST 2.5 FEET INTO THE CENTERLINE OF THE RECEIVING CHANNEL WITH THE ELEVATION OF THE TOP OF THE STATE RECORDED ON THE STAKE. AT LEAST ONE DEVICE SHALL BE PROVIDED AT EACH OUTFALL (1 DAY).

PHASE 1

- 1. CLEAR MINIMUM AREA NECESSARY TO INSTALL SEDIMENT CONTROLS AS MENTION IN PLANS AND THE STAGING/LAYDOWN AREAS. MECHANICAL STABILIZATION WILL BE REQUIRED ON THE STAGING/LAYDOWN AREAS AND HEAVY USE AREAS, INCLUDING TRAVEL LANES. WOOD CHIPS MAY BE UTILIZED WITH APPROVAL FROM INSPECTIONS AND PERMITS. PERFORM LOD STAKEOUT (4 DAYS)
- . INSPECTIONS AND PERMITS MAY REQUIRE THAT AN INSPECTION AND CERTIFICATION OF THE INSTALLATION OF SEDIMENT CONTROL ALSO BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION COMMENCING. (1 WEEK)
- 3. ONCE SEDIMENT CONTROLS HAVE BEEN INSTALLED FOR ALL PHASES, CONTACT THE INSPECTOR FOR APPROVAL OF SEDIMENT CONTROL INSTALLATION (AND IF NEEDED MONITORING STAKE INSTALLATION BELOW THE OUTFALLS) PRIOR TO COMMENCING WORK.
- 4. UPON INSTALLATION OF ALL SEDIMENT CONTROLS, AND WITH THE APPROVAL OF THE E&S INSPECTOR, PROCEED WITH CLEARING AND GRUBBING OF THE DESIGNATED LIMITS
 OF DISTURBANCE. PERFORM TREE ROOT PRUNING AS DESIGNATED ON FOREST CONSERVATION PLANS. (2 WEEKS)
- 5. COMMENCE REMOVAL OF EXISTING CURB AND GUTTER, EXCAVATION FOR THE CONSTRUCTION OF FULL DEPTH PAVEMENT OF THE PARKING LOT (OMITTING THE FINAL SURFACE COURSE), RELOCATION OF EXISTING FENCES AND POSTS, RECONSTRUCTION OF CONCRETE STEPS. INSTALLATION OF PROPOSED CURB AND GUTTER, CONCRETE SIDEWALK, CONCRETE RAMPS, AND DRIVEWAY APRONS. GAS AND WATER LINE RE-ADJUSTMENTS, UTILITY CONCRETE ENCASEMENTS, AND ADJUSTMENT OF FIRE HYDRANTS. (1 WEEK)
- 6. AFTER EXCAVATION OF THE PARKING LOT, INSTALL PROPOSED PERMEABLE PAVEMENTS (PP-1 AND PP-2) AS SHOWN ON THE PLANS FOR THE PARKING LOT. (1 WEEK)
- 7. COMPLETE EXCAVATION AND ROUGH GRADING FOR THE PROPOSED PLAYGROUND AS SHOWN ON THE PLANS.(CONTRACTOR TO EXCAVATE TO ELEVATIONS/PROFILE AS SHOWN ON DETAIL SHEET 18 FOR A FLAT BOTTOM). (3 DAYS
- 8. UPON 95% STABILIZATION OF DRAINAGE AREA UPSTREAM OF THE PROPOSED PLAYGROUND, INSTALL PLAYGROUND ALTERNATIVE SURFACES SUCH AS NO. 57 STONE, GRADED AGGREGATE BASE. (1 WEEK)
- 9. INSTALL 8' WIDE ASPHALT PATH, ASSOCIATED PAVILIONS AND GAZEBOS AND PEA GRAVEL STRIPS FOR ALL NON ROOFTOP DISCONNECT AREA AS SHOWN ON PLANS. (3 WEEKS)
- 10. AFTER INSTALLATION OF ASPHALT PATH, PROCEED WITH THE CONSTRUCTION OF PROPOSED BOARDWALK PIERS, APPROACHES, AND DECK. BOARDWALK PIER INSTALLATION TO BE COMPLETE UTILIZING SAME DAY STABILIZATION PROCEDURES (2 WEEKS).
- 11. COMPLETE ROUGH GRADING FOR THE INSTALLATION OF THE PROPOSED BOCCE BALL COURT AND HORSE SHOE COURT. COMPLETE COURT INSTALLATION INCLUDING ALL SURFACE MATERIALS AS SHOWN ON PLANS (1 WEEK)
- ONCE THE CONSTRUCTION AREA IS COMPLETE STABILIZED, AND WITH THE APPROVAL OF THE E&SC INSPECTOR, REMOVE EROSION AND SEDIMENT CONTROL MEASURES AND STABILIZE ANY REMAINING DISTURBED AREAS WITH THE APPROVAL OF THE E&SC INSPECTOR. UPON 95% STABILIZATION OF SITE WITH ESTABLISHED VEGETATION AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS. (1 DAY)





ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS REVISED APPROVED DATE APPROVED DATE SCALE SCALE DRAWING NO. ESN-01 OF ESN-03 DATE BY DRAWN BY ODENTON LIBRARY COMMUNITY PARK CHIEF ENGINEER PROJECT MANAGER CHECKED BY AP PHASE 1 APPROVED SHEET 20 OF 33 **EROSION AND SEDIMENT** APPROVED DATE PROJECT NO. P479800 CONTROL GENERAL NOTES PROPOSAL NO. ASSISTANT CHIEF ENGINEER CHIEF, RIGHT OF WAY

EROSION AND SEDIMENT CONTROL GENERAL NOTES

EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION IN ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS (REFERENCED AS THE 2011 STANDARDS AND SPEC'S).
- 2. AREAS THAT HAVE BEEN CLEARED AND/OR GRADED, BUT WILL NOT BE CONSTRUCTED ON OR PERMANENTLY VEGETATED FOR MORE THEN 5 DAYS (3 DAYS FOR SEDIMENT CONTROL MEASURES STEEP SLOPES) MUST BE STABILIZED WITH MULCH OR TEMPORARY STABILIZATION. ANY AREAS THAT ARE IN TEMPORARY VEGETATION FOR OVER 6 MONTHS WILL NEED TO BE PERMANENTLY VEGETATED.
- 3. FOR SPECIFICATIONS ON PERMANENT OR TEMPORARY STABILIZATION SEE B-4-4 AND B-4-5.
- 4. MULCHING CAN ONLY BE USED ON DISTURBED AREAS AS A TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE
- SEEDING GERMINATION CANNOT BE COMPLETED BECAUSE OF WEATHER CONDITIONS. FOR SPECIFICATIONS SEE B-4-3, A.1.B.

 5. FOR SPECIFICATIONS ON THE STABILIZATION OF CUT AND FILL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL, SEE INCREMENTAL STABILIZATION B-4-1.
- 6. THE EXISTING TOPSOIL FROM ON OR OFF SITE THAT IS USED MUST MEET THE MINIMUM SPECIFICATIONS IN B-4-2.
- 7. THE REQUIRED SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED DURING SITE DEVELOPMENT. ANY CHANGE IN THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 8. ANY REVISIONS TO THE SEDIMENT CONTROL PLAN, NOT COVERED UNDER THE LIST OF PLAN MODIFICATIONS THAT CAN BE APPROVED BY THE SEDIMENT CONTROL INSPECTOR, NEED TO BE SUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR APPROVAL.
- 9. NO PROPOSED SLOPE THAT IS SEEDED AND/OR MULCHED SHALL BE GREATER THAN 2:1. SLOPES GREATER THAT 2:1 SHALL REQUIRE AN ENGINEERED DESIGN FOR STABILIZATION.
- 10. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED ONCE A WEEK AND AFTER EACH RAINFALL AND WILL BE REPAIRED, AS NEEDED, SO THAT THE STRUCTURE MEETS THE MINIMUM SPECIFICATIONS AS SHOWN IN THE 2011 STANDARDS AND SPEC'S.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 12. THE DISTRICT APPROVAL FOR THIS SEDIMENT CONTROL PLAN IS GOOD FOR 2 YEARS. AT THE END OF 2 YEARS, IF CONSTRUCTION OF THE PLAN HAS NOT STARTED, THE PLAN WILL NEED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR REVIEW AND RE-APPROVAL. ANY PLANS THAT ARE CURRENTLY UNDER CONSTRUCTION AFTER 2 YEARS MAY BE REQUIRED TO BE RE-SUBMITTED TO THE SOIL CONSERVATION DISTRICT BY THE SEDIMENT CONTROL INSPECTOR.

SITE ANALYSIS

1. TOTAL AREA OF SITE: 24 AC 2. AREA DISTURBED: 1.92 AC 3. CUT: 880 CY

4. FILL: 500 CY

NOTE: EARTHWORK CUT AND FILL QUANTITIES INDICATED ON THIS PLAN ARE SHOWN FOR PURPOSES OF OBTAINING SEDIMENT CONTROL PLAN APPROVAL AND NOT TO BE USED FOR CONTRACTUAL OBLIGATIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY QUANTITIES.

STABILIZATION SPECIFICATIONS

TEMPORARY SEEDING NOTES

SCOPE: PLANTING SHORT TERM (NO MORE THAN 6 MONTHS) VEGETATION TO TEMPORARILY STABILIZE ANY AREAS WHERE SOIL DISTURBANCE HAS OCCURRED, UNTIL THE AREA CAN BE PERMANENTLY STABILIZED WITH VEGETATIVE OR NON-VEGETATIVE PRACTICES.

STANDARDS: THE FOLLOWING NOTES SHALL CONFORM TO SECTION B-4 OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY THE MARYLAND DEPARTMENT OF ENVIRONMENT – WATER MANAGEMENT ADMINISTRATION, THE NATURAL RESOURCE CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS.

1. THE SEED BED SHALL BE PREPARED BY LOOSENING THE SOIL TO A DEPTH OF 3 TO 5 INCHES AND INCORPORATING THE LIME AND FERTILIZER INTO THIS LOOSENED LAYER OF SOIL. SEE SECTION B-4-2.

2. FOR TEMPORARY STABILIZATION, FERTILIZER SHALL CONSIST OF A MIXTURE OF 10–20–20 AND BE APPLIED AT A RATE OF 436 LB. PER ACRE (10 LB. PER 1000 SQ. FT.) AND WILL MEET THE REQUIREMENTS IN SECTION B–4–2. LIME SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE (90 LB. PER SQ. FT.) AND SHALL MEET THE REQUIREMENTS IN SECTION B–4–2 AND B–4–4.

3. SEED TYPE AND APPLICATION SHALL MEET THE REQUIREMENTS IN SECTION B-4-3 SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY THE TYPE AND RATE OF SEED USED. MULCH TYPE AND ITS APPLICATION WILL MEET THE REQUIREMENTS IN SECTION B-4-3 A, B AND C AND WILL BE APPLIED ALONG WITH THE SEED OR IMMEDIATELY AFTER SEEDING

4. SEEDING MIXTURES SHALL BE SELECTED FROM OR WILL BE EQUAL TO THOSE ON TABLE B.1 (PAGE B.20).

TEMPORARY SEEDING SUMMARY

THE SEEDING CHART BELOW WILL NEED TO BE PLACED ON AND FILLED IN ON THE SEDIMENT CONTROL PLAN.

	HARDINESS ZONE (FRO SEED MIXTURE (FRO	FERTILIZER RATE	LIME RATE				
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	(10–20–20)		
1.	ANNUAL RYEGRASS (LOLIUM PERENNE SSP. MULTIFLORUM)	40 LB/AC	2/15 - 4/30; 8/15 - 11/30	0.5"	436 LB/AC	2 TONS/AC	
2.	FOXTAIL MILLET (SETARIA ITALICA)	30 LB/AC	5/1 – 8/14	0.5"	(10 LB/1000 SF)	(90 LB/1000 SF)	

PERMANENT SEEDING NOTES

SCOPE: PLANTING PERMANENT, LONG LIVED VEGETATIVE COVER ON GRADED AND/OR CLEARED AREAS AND AREAS THAT HAVE BEEN IN TEMPORARY VEGETATION FOR MORE THAN 6 MONTHS.

STANDARDS: THE FOLLOWING NOTES SHALL CONFORM TO SECTION B-4 OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY THE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION, THE NATIONAL RESOURCE CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS.

- 1. THE SEED BED SHALL BE PREPARED BY LOOSENING THE SOIL TO A DEPTH OF 3 TO 5 INCHES AND INCORPORATING THE LIME AND FERTILIZER INTO THIS LOOSENED LAYER OF SOIL SEE SECTION B-4-2.
- 2. FOR SITES OVER 5 AC. SOIL TESTS WILL BE PERFORMED. SOIL TESTS WILL BE CONDUCTED BY THE UNIVERSITY OF MARYLAND OR A RECOGNIZED COMMERCIAL LABORATORY. MINIMUM SOIL CONDITIONS SHALL MEET THE REQUIREMENTS OF SECTION B-4-2-A-2-A, OTHERWISE SOIL AMENDMENTS OR TOPSOIL WILL NEED TO BE APPLIED.
- 3. TOPSOILING MAY OCCUR WHEN SOIL CONDITIONS MEET THE MINIMUM REQUIREMENTS AS STATED IN SECTION B-4-2-B. SOIL AMENDMENTS MUST MEET THE REQUIREMENTS AS SET FORTH IN SECTION B-4-2-C AND MUST BE APPLIED AS INDICATED BY THE SOILS TESTS.
- 4. FOR SITES OF 5 AC. OR LESS OF DISTURBANCE, THE FOLLOWING FERTILIZER AND LIME RATES SHALL APPLY. FERTILIZER SHALL CONSIST OF A MIXTURE OF 10–20–20 AND BE APPLIED AT THE FOLLOWING RATES: N = 45 LB. PER ACRE (1 LB. PER 1000 SQ. FT.) P205 = 90 LB. PER ACRE (2 LB. PER 1000 SQ. FT.) K20 = 90 LB. PER ACRE (2 LB. PER 1000 SQ. FT.) LIME SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE (90 LB. PER 1000 SQ. FT.)
- 5. SEED TYPE, TURFGRASS OR SOD APPLICATION SHALL MEET THE REQUIREMENTS IN SECTION B-4-5. SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY THE TYPE AND APPLICATION RATE OF SEED USED. MULCH TYPE AND ITS APPLICATION WILL MEET THE REQUIREMENTS IN SECTION B-4-3 A, B AND C, AND WILL BE APPLIED ALONG WITH SEED OR IMMEDIATELY AFTER SEEDING
- 6. SEEDING MIXTURES SHALL BE SELECTED FROM OR WILL BE EQUAL TO THOSE ON TABLE B-3. THE SEEDING CHART BELOW WILL NEED TO BE PLACED ON AND FILLED IN ON THE SEDIMENT CONTROL PLAN.

TRACKING NOTE:

ON AREAS WHERE THE SLOPE IS 3:1 OR STEEPER AND THE HEIGHT IS 8' OR GREATER, CONTRACTOR SHALL TRACK THE SLOPE USING CLEATED DOZER PRIOR TO PLACING ASPHALT BINDER. DOZER SHALL RUN UP-AND-DOWN SO THAT CLEAT MARKS ARE HORIZONTAL. WHERE TRACKING IS REQUIRED, IT SHALL BE DONE FROM EXISTING GRADE LEVEL TO FINISHED GRADE LEVEL WITHIN THE LIMITS ESTABLISHED BY THE 8' HEIGHT CRITERIA.

UTILITY CONSTRUCTION NOTES

1. PLACE ALL EXCAVATED MATERIAL ON THE HIGH SIDE OF THE TRENCH.

2. ONLY DO AS MUCH WORK AS CAN BE DONE IN ONE DAY SO BACKFILLING, FINAL GRADING, AND PERMANENT STABILIZATION CAN OCCUR.

3. ANY SEDIMENT CONTROL MEASURES DISTURBED BY THE UTILITY CONSTRUCTION WILL BE REPAIRED THE SAME DAY.

STOCKPILE/TOPSOIL NOTES

1. STOCKPILING WILL NOT BE ALLOWED ON ANY IMPERVIOUS AREA.

2. ALL STOCKPILES LEFT AT THE END OF THE DAY WILL NEED TO BE TEMPORARILY STABILIZED UNTIL THEY ARE AGAIN DISTURBED, UNLESS THEY ARE WITHIN EXISTING PERIMETER SEDIMENT CONTROLS.

3. ALL STOCKPILE AREAS SHALL BE CONFINED WITHIN PERIMETER CONTROLS. IN THE EVENT THAT STOCKPILE AREAS MUST BE LOCATED OUTSIDE DISTURBED AREAS, THE LOCATION SHALL BE AS DIRECTED BY THE INSPECTOR IN THE FIELD.

	HARDINESS ZONE (FI SEED MIXTURE (F	FEF	RTILIZER R (10–20–20)						
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	Ν	P ₂ O ₅	K ₂ O	LIME RATE	
	DEERTONGUE (DICHANTHELIUM CLADESTINUM)	15 LB/AC		0.25 - 0.5 IN				2 TONS/AC	
4.	CREEPING RED FESCUE (FESTUCA RUBRA VAR. RUBRA)	20 LB/AC	2/15 – 4/30*		45 LB/AC (1 LB/ 1000 SF)	90 LB/AC (2 LB/ 1000 SF)	90 LB/AC (2 LB/ 1000 SF)		
	CANADA WILD RYE (ELYMUS CANADENSIS)	5 LB/AC							
11.	CREEPING RED FESCUE (FESTUCA RUBRA VAR. RUBRA)	30 LB/AC						(90 LB/1000 SF)	
	CHEWINGS FESCUE (FESTUCA RUBRA SP. COMMUTATA)	30 LB/AC	2/15 – 4/30	0.25 - 0.5 IN					
	KENTUCKY BLUEGRASS (POA PRATENIS)	20 LB/AC	8/15 – 10/31						

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

- 1. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- 2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- 3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED, USE CLEAN MATERIALS FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
- 4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- 5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, OR WATERWAYS, OR PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.
- 6. RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
- 7. ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES:

ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.)AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

- 8. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS.
- 9. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM:
- A. USE I WATERS (WITHOUT YELLOW PERCH): IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE DURING ANY YEAR.
- B. USE I WATERS (WITH YELLOW PERCH): IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD FEBRUARY 15 THROUGH JUNE 15, INCLUSIVE DURING ANY YEAR.
- C. USE III WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD OCTOBER 1 THORUGH APRIL 30, INCLUSIVE, DURING ANY YEAR.
- D. USE IV WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH MAY 31, INCLUSIVE, DURING ANY YEAR.

10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE

CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAY.

11. CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT

TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF

NOTE: SITE DISCHARGES TO USE I WATERS (WITHOUT YELLOW PERCH)
IN STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD
MARCH 1 THROUGH JUNE 15, INCLUSIVE DURING ANY YEAR.



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	BRUDIS & ASSOCIATES, INC. Consulting Engineers
	11000 Broken Land Pkwy; Suite 450 Columbia, Maryland 21044 Phone 410-884-3607

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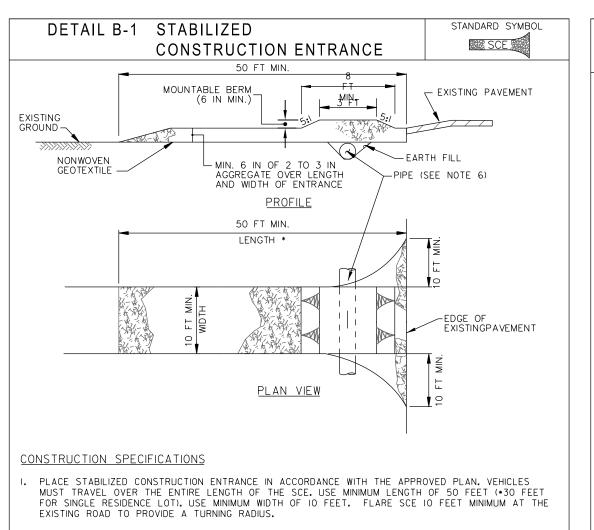
THE ACTIVITY IS TO IMPOUND WATER.

PHASE 1
EROSION AND SEDIMENT
CONTROL GENERAL NOTES

ODENTON LIBRARY COMMUNITY PARK

DRAWING NO. ESN-02 OF ESN-03

EROSION AND SEDIMENT CONTROL - DETAILS



- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE, PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH
- 3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-I MATERIALS. 4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT

TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO

REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM. AND TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE

TEMPORARY

PROTECTION

OUTLET

IMPERVIOUS -

SHEETING

AROUND POND CONSTRUCTION SITE.

NOTES:

WATER MANAGEMENT ADMINISTRATION

WORK AREA

PLAN VIEW

SAND BAG DIKE-

THE WORK SHOULD CONSIST OF INSTALLING A TEMPORARY PUMP AROUND AND SUPPORTING MEASURES TO DIVERT FLOW

2 SANDBAG DIKES SHOULD BE SITUATED AT THE UPSTREAM END OF THE WORK AREA WHERE THE STORMDRAIN INFLOWS

3. WATER FROM THE WORK AREA SHOULD BE FILTERED THROUGH TSOS OR OTHER APPROVED SOURCE. THE MEASURE SHOULD BE LOCATED SUCH THAT THE WATER DRAINS BACK INTO THE CHANNEL DOWNSTREAM BELOW THE DEVICE.

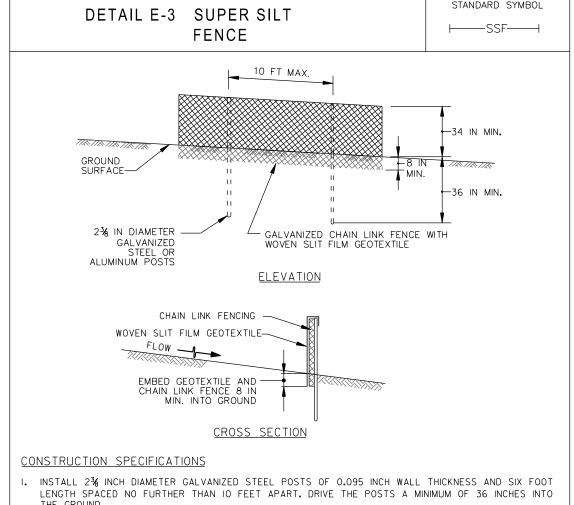
ARE LOCATED AS SHOWN ON THE PLANS, AND THE FLOW SHOULD BE PUMPED AROUND THE WORK AREA. THE PUMP

^{5.} THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ACCESS TO AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL

6. AFTER CONSTRUCTION, ALL DISTURBED AREAS SHOULD BE REGRADED AND REVEGETATED AS PER THE PLANTING PLAN.

BASE FLOW + 1 FOOT

(1.5 FOOT MINIMUM)



- . FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2¾ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS. . FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-I MATERIALS, SECURELY TO THE
- JPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND. . WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- 5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-I MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL LIS DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT INATURAL RESOURCES CONSERVATION SERVICE I WATER MANAGEMENT ADMINISTRATION

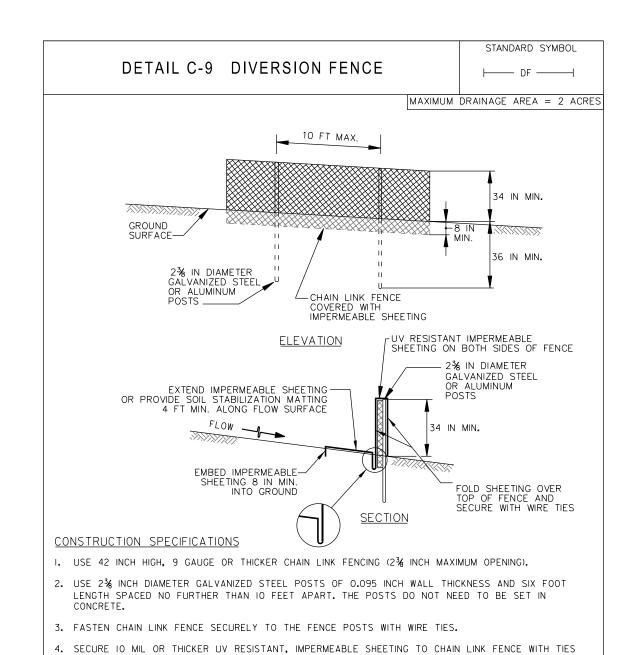
-DIVERSION PUMP

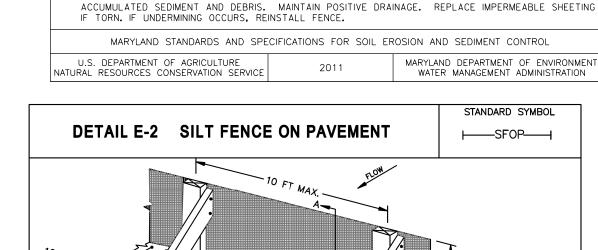
SUMP-HOLE

(12" TO 18" DEEP 2' DIA,)

OR POOL

INTAKE





SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.

EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF

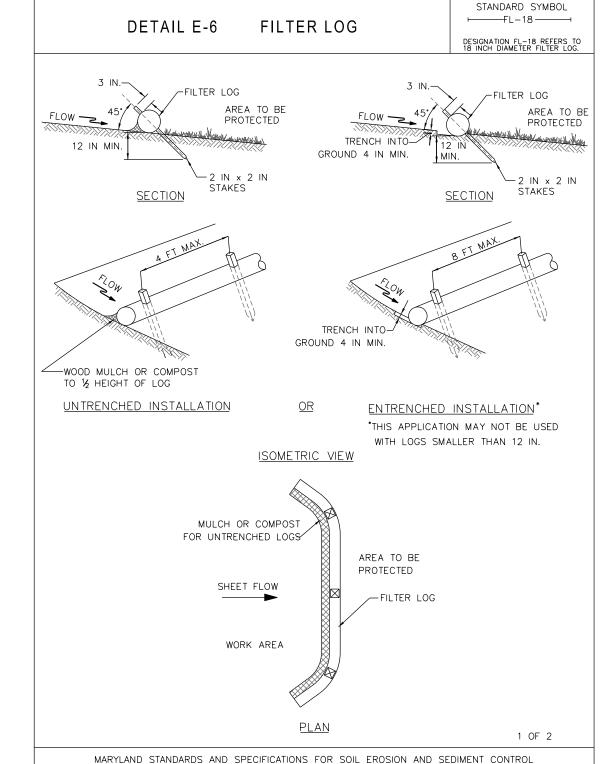
8 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING

WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM

KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE

- 2. USE WOVEN SLIT FILM GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE
- 4. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
- OPENING OVER GEOTEXTILE.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
- 3. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT—LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
- . SECURE BOARDS TO PAVEMENT WITH 40D 5 INCH MINIMUM LENGTH NAILS.
- O. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL



B-4-8 STANDARDS AND SPECIFICATIONS

FOR

STOCKPILE AREA

<u>Definition</u>

A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

To provide a designated location for the temporary storage of soil that controls the potential for erosion,

3. Runoff from the stockpile area must drain to a suitable sediment control practice.

Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in

accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1

ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1

B.43

slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Conditions Where Practice Applies

NATURAL RESOURCES CONSERVATION SERVICE

sedimentation, and changes to drainage patterns

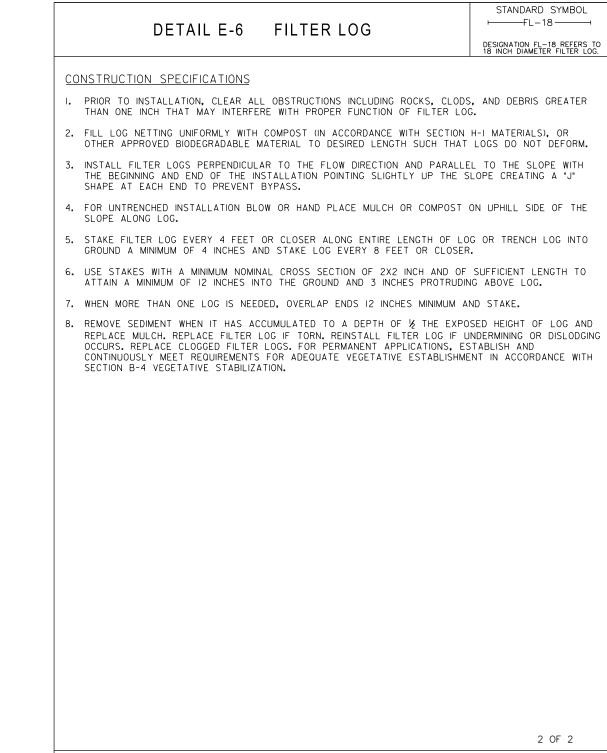
erosion and sediment control plan.

with Section B-3 Land Grading.

4. Access the stockpile area from the upgrade side.

concentrated flow in a non-erosive manner

control practice must be used to intercept the discharge

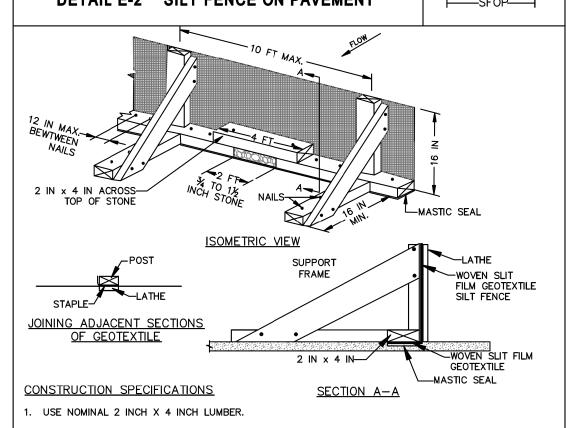


MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

NATURAL RESOURCES CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

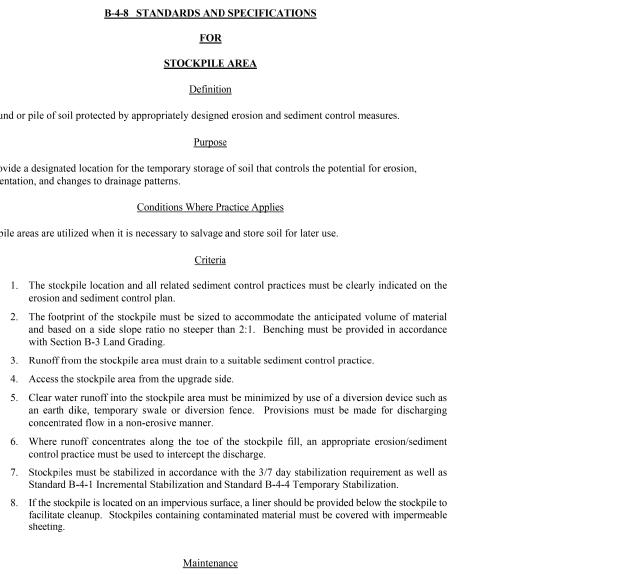


- INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION $H\!-\!1$ MATERIALS.
- KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.

PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE

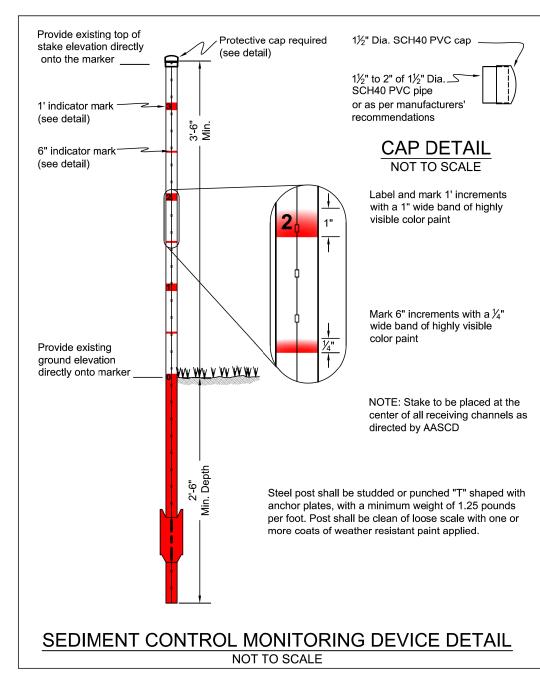
- SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE MARYLAND DEPARTMENT OF ENVIRONMENT



MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION



8/11/2023

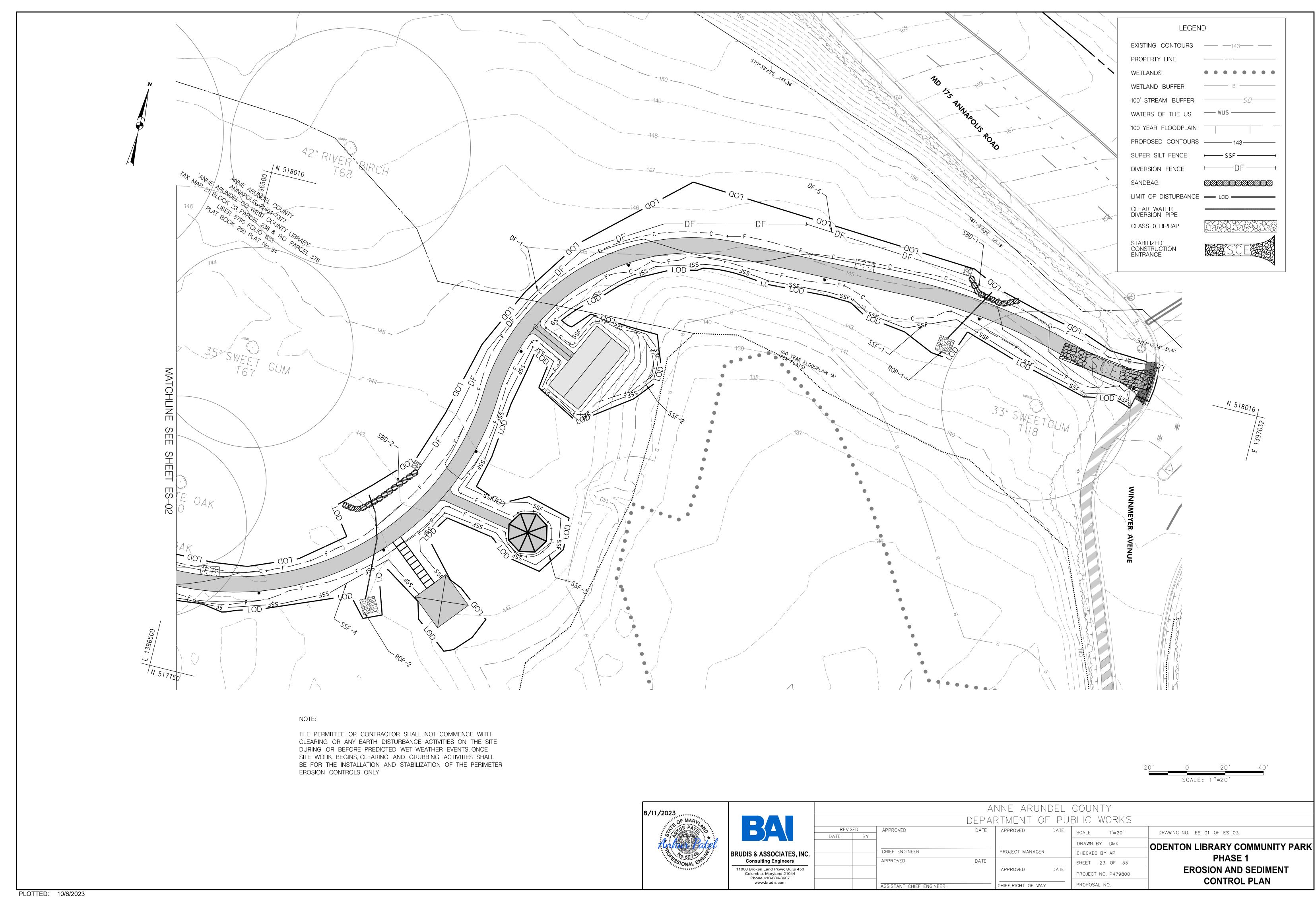
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JDIS & ASSOCIATES, INC.		CHIEF ENGINEER		PROJECT MANAGER	CHECKED BY AP	PHASE 1
Consulting Engineers		APPROVED	DATE		SHEET 22 OF 33	
000 Broken Land Pkwy; Suite 450 Columbia, Maryland 21044 Phone 410-884-3607				APPROVED DATE	PROJECT NO. P479800	EROSION AND SEDIMENT
www.brudis.com		ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	PROPOSAL NO.	CONTROL DETAILS

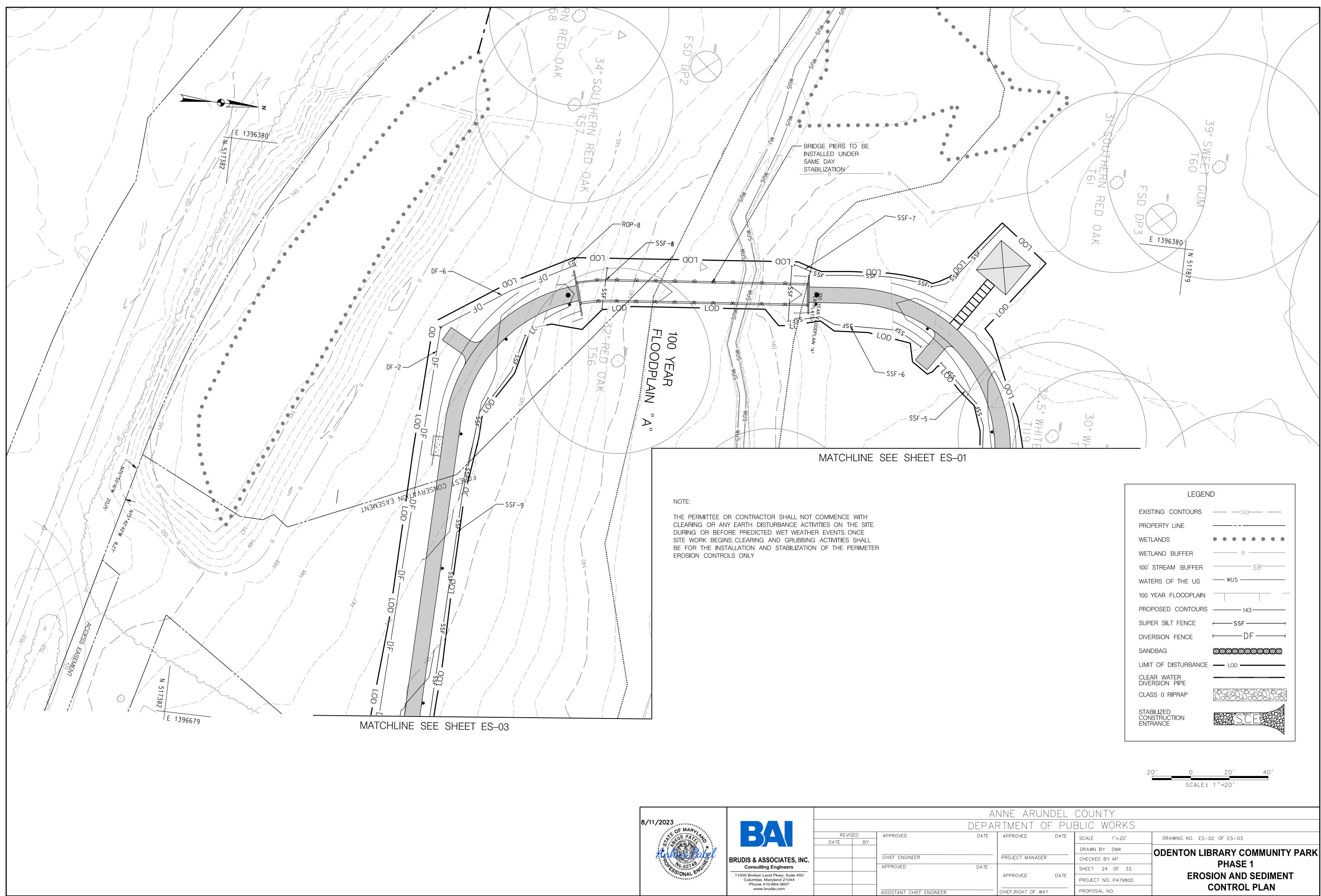
YPICAL PUMPAROUND PRACTICE DETAIL N.T.S.

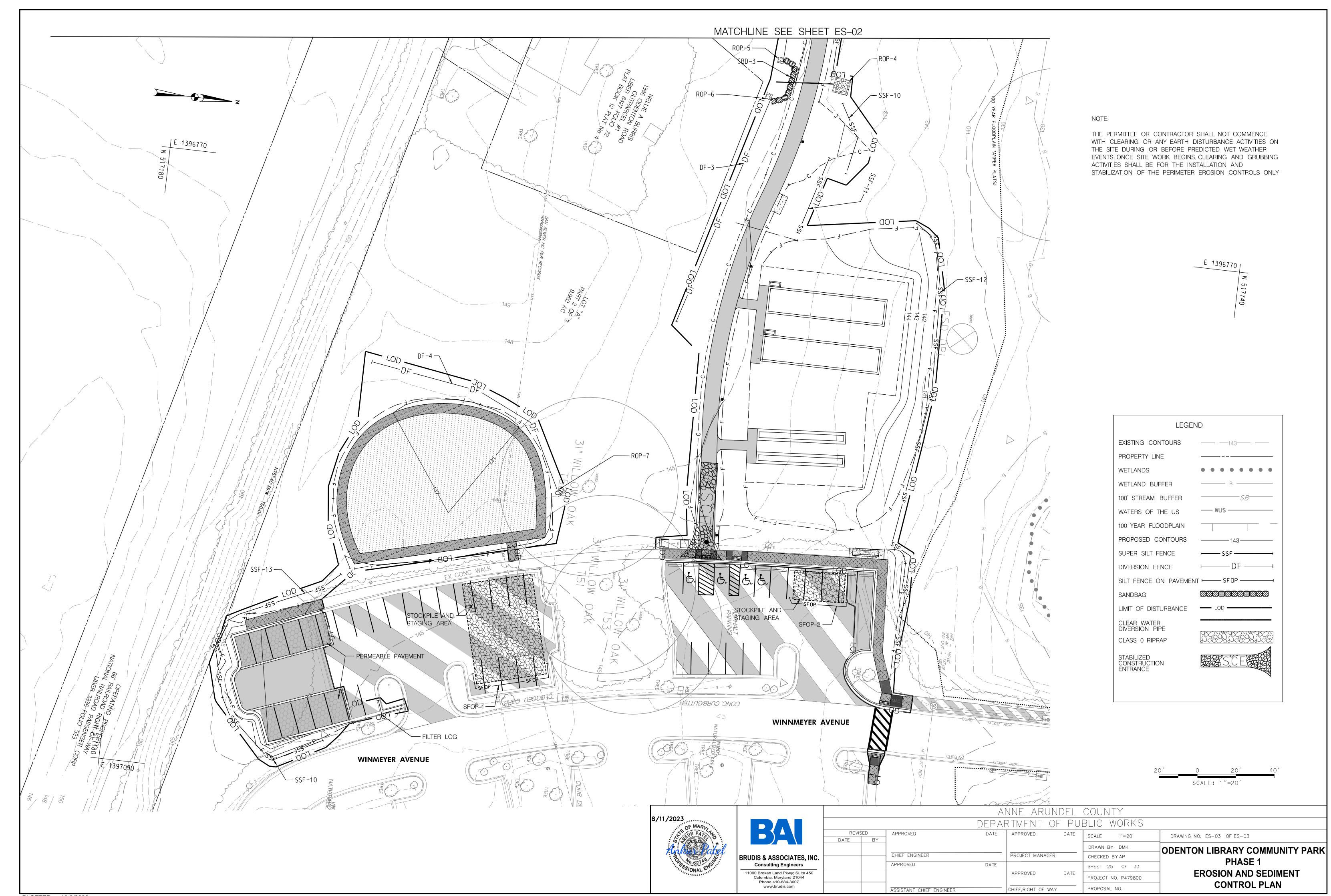
4. PUMP AROUND PRACTICE SHALL BE MONITORED 24 HOURS A DAY DURING THE CONSTRUCTION PERIOD.

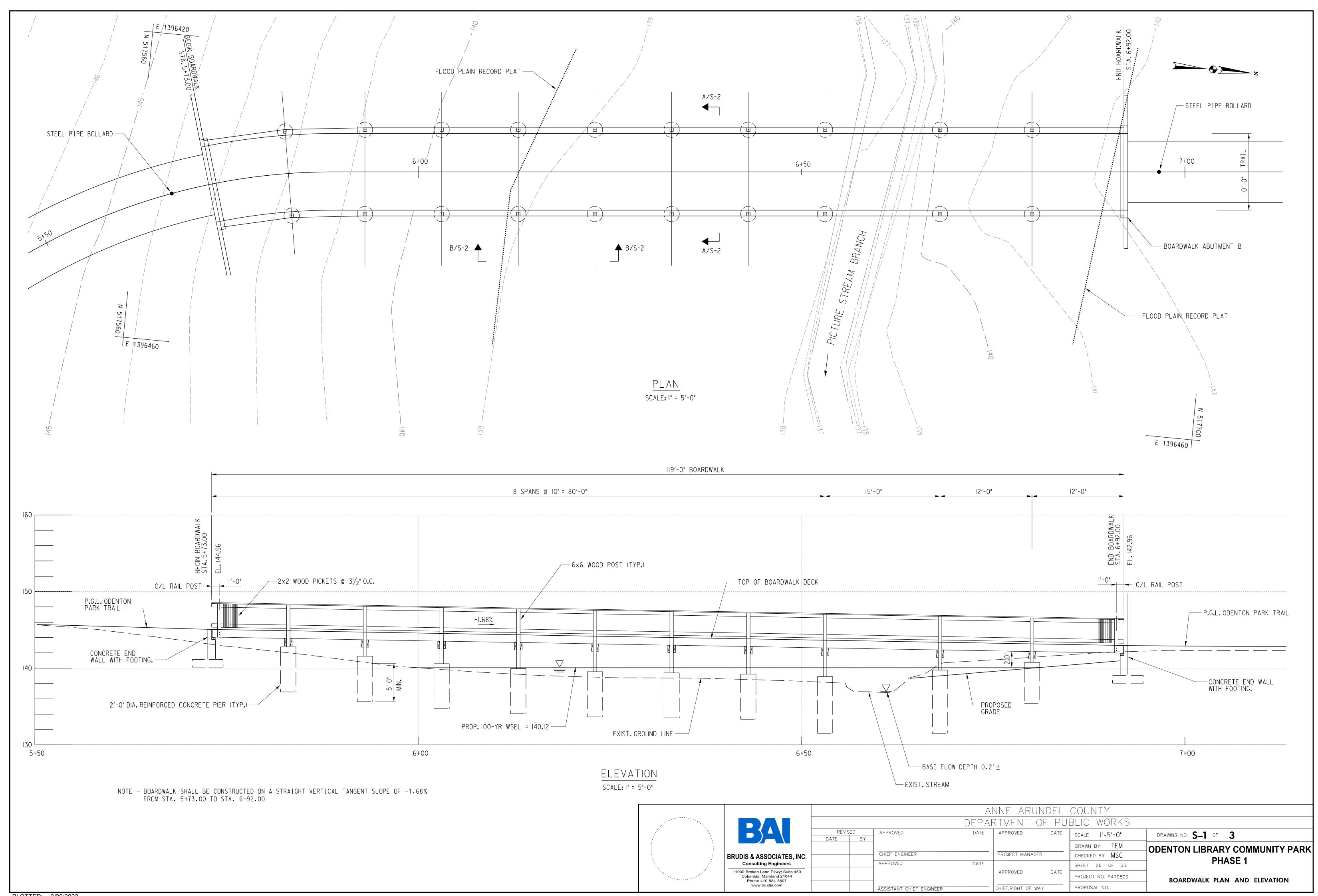
SHOULD DISCHARGE ONTO A STABLE VELOCITY DISSIPATOR MADE OF RIPRAP OR SANDBAGS.

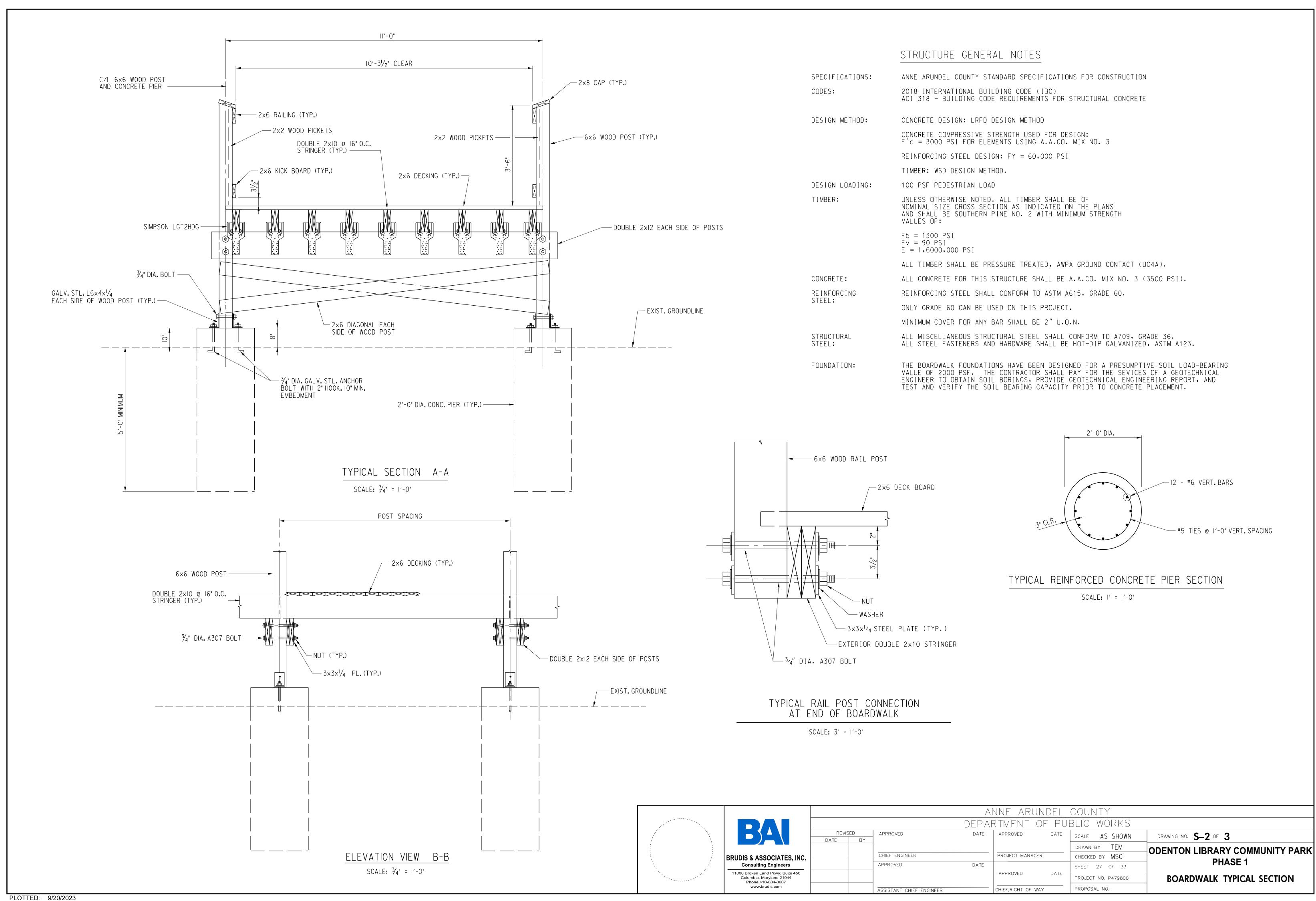
DEVICES UNTIL THE SEDIMENT CONTROL INSPECTOR APPROVES THEIR REMOVAL

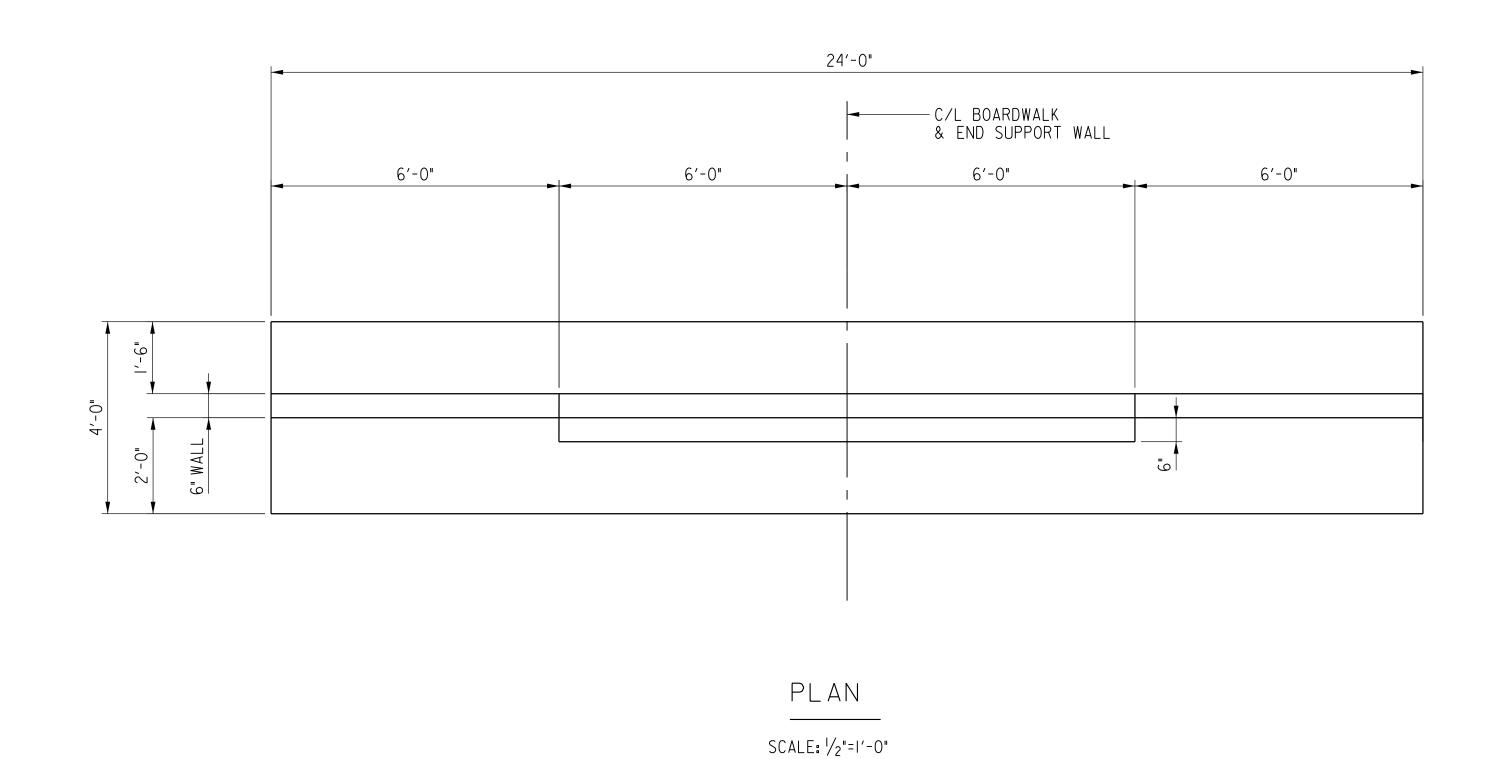


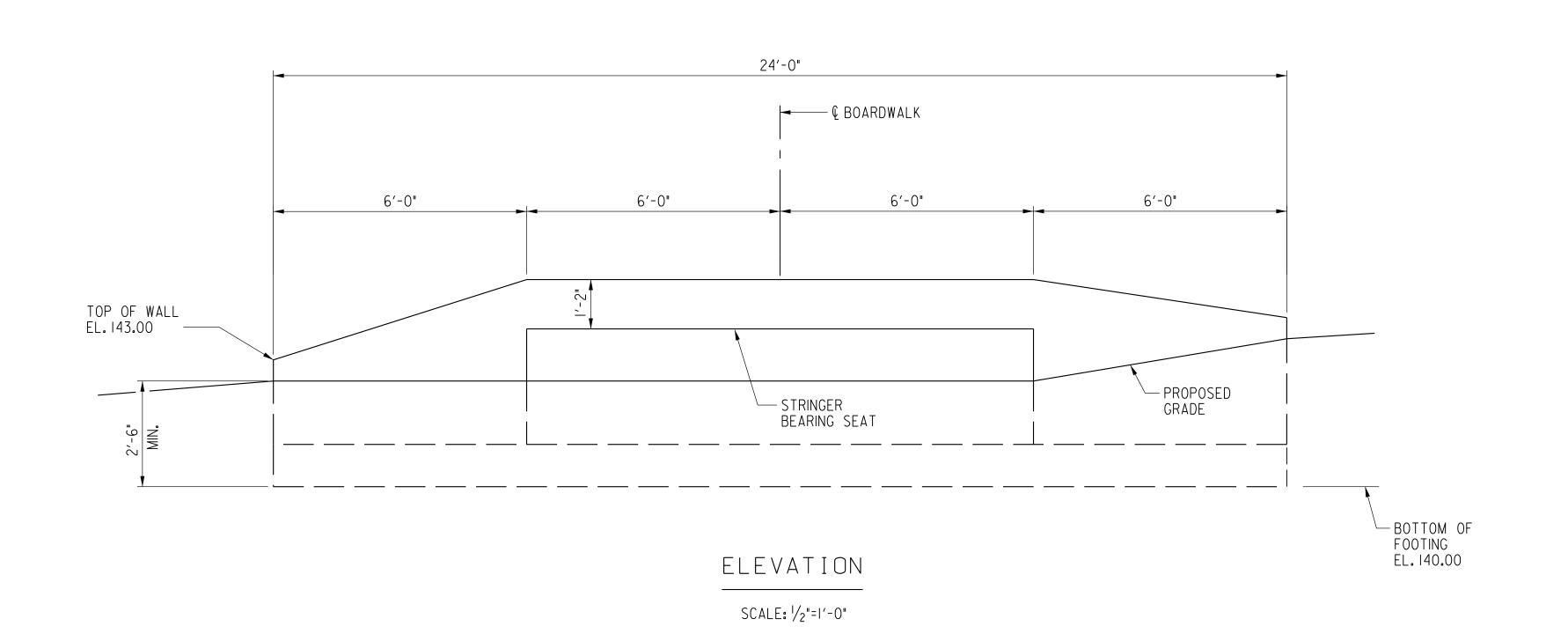


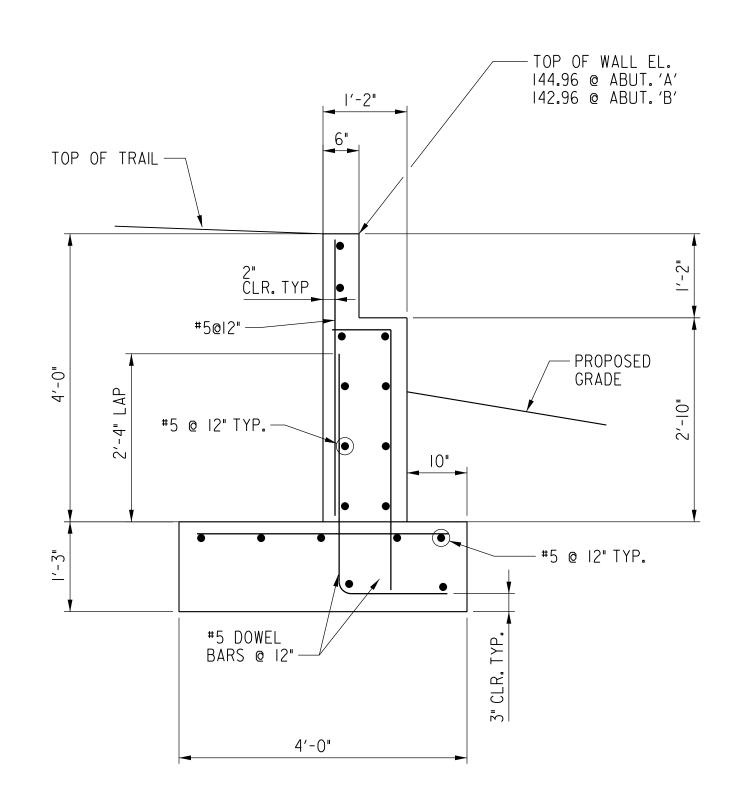






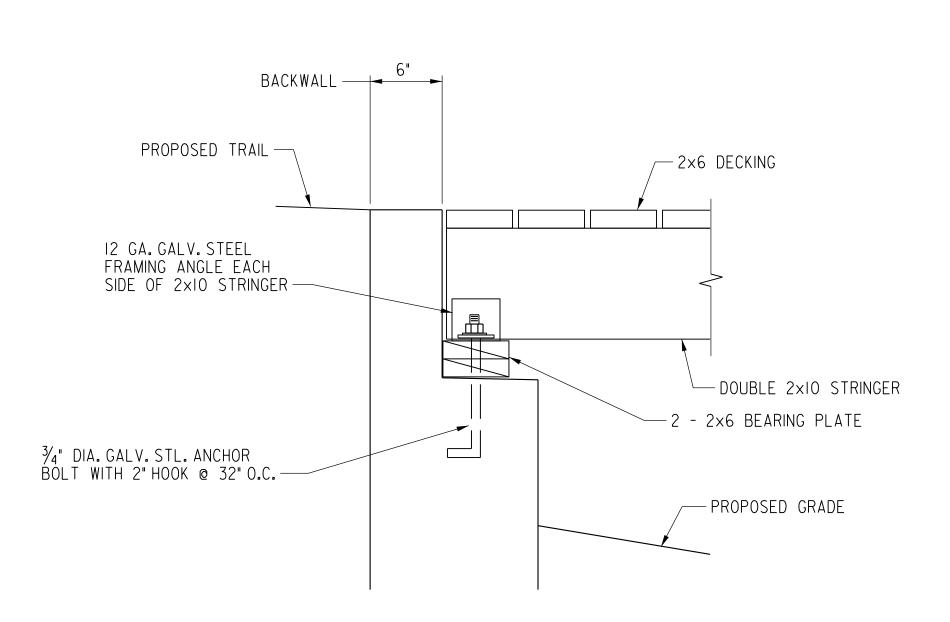






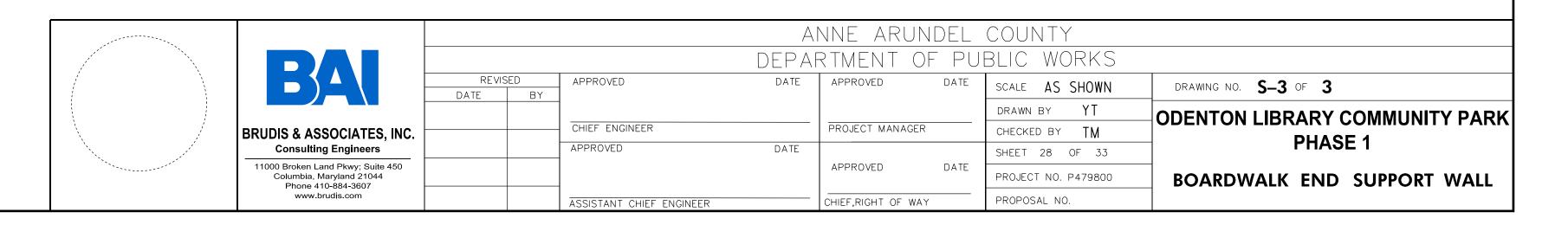
TYPICAL SECTION

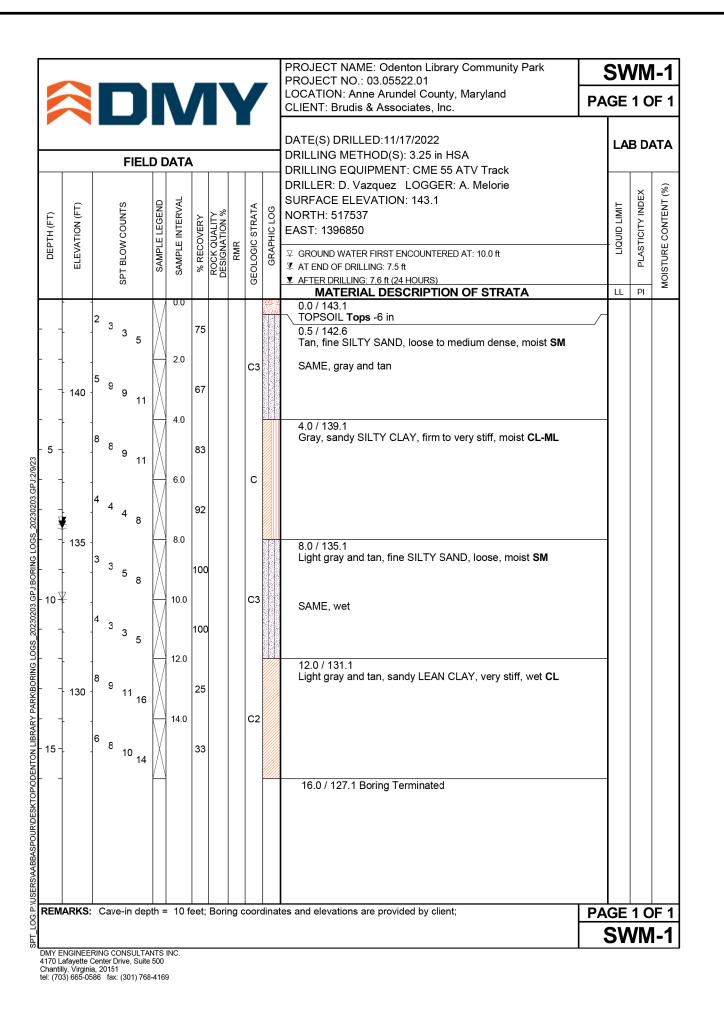
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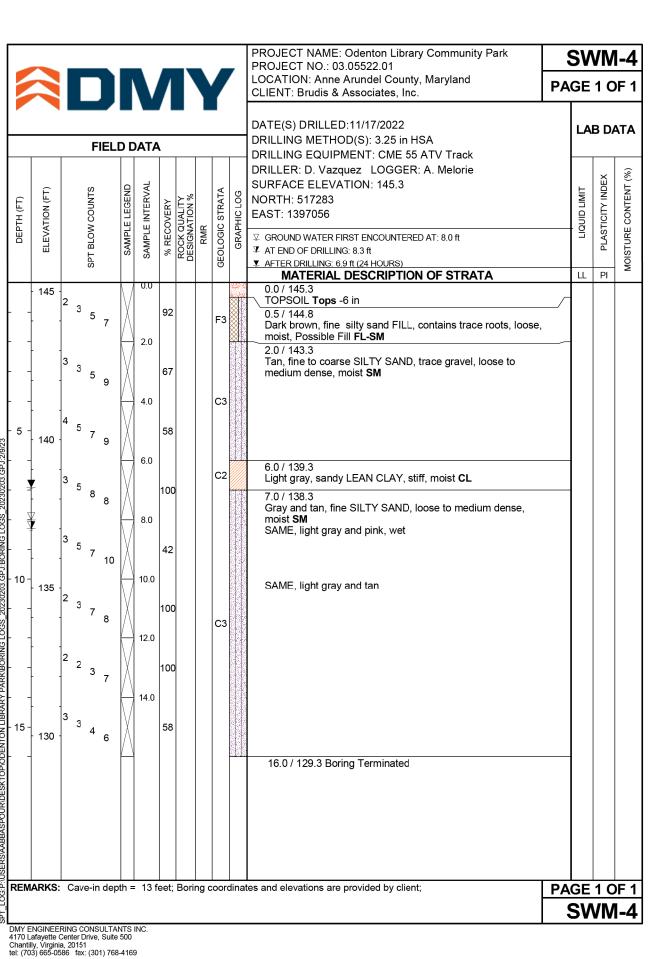


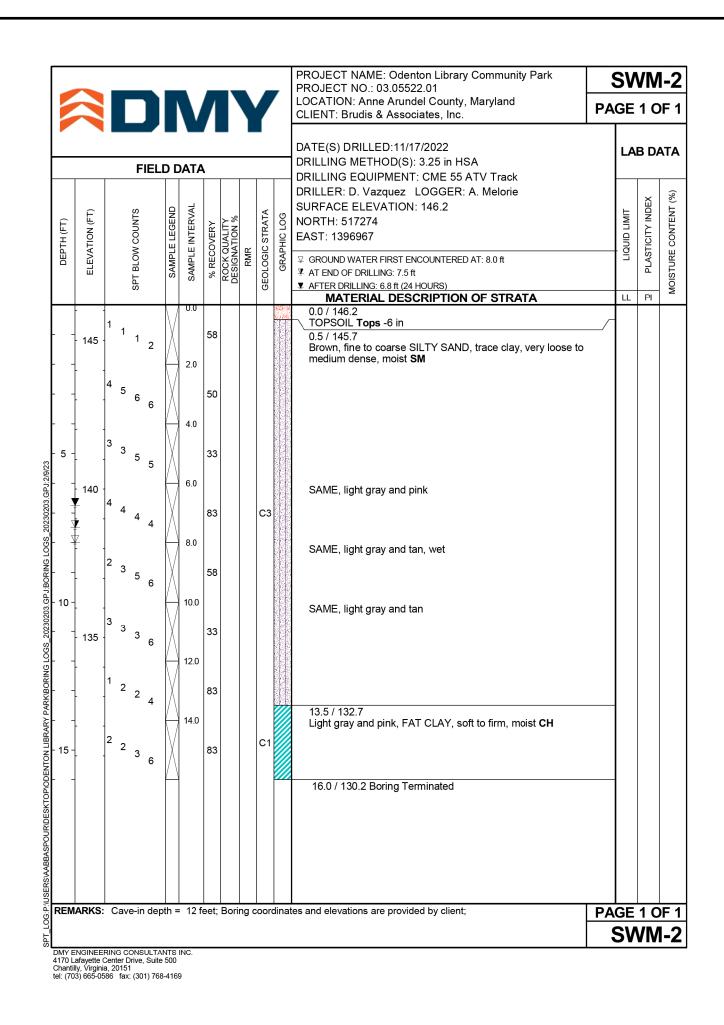
BEARING DETAIL

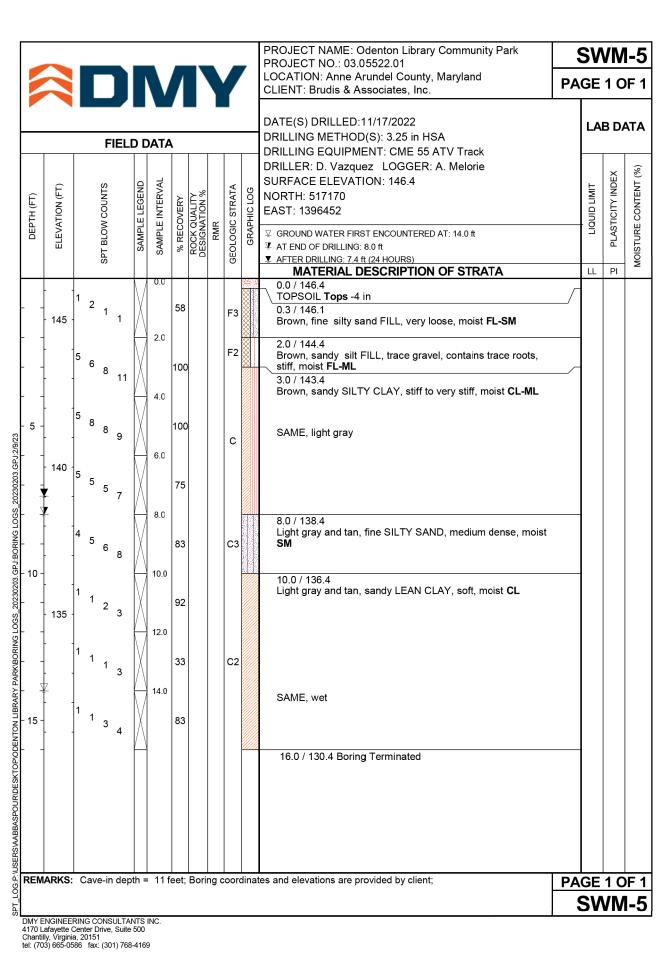
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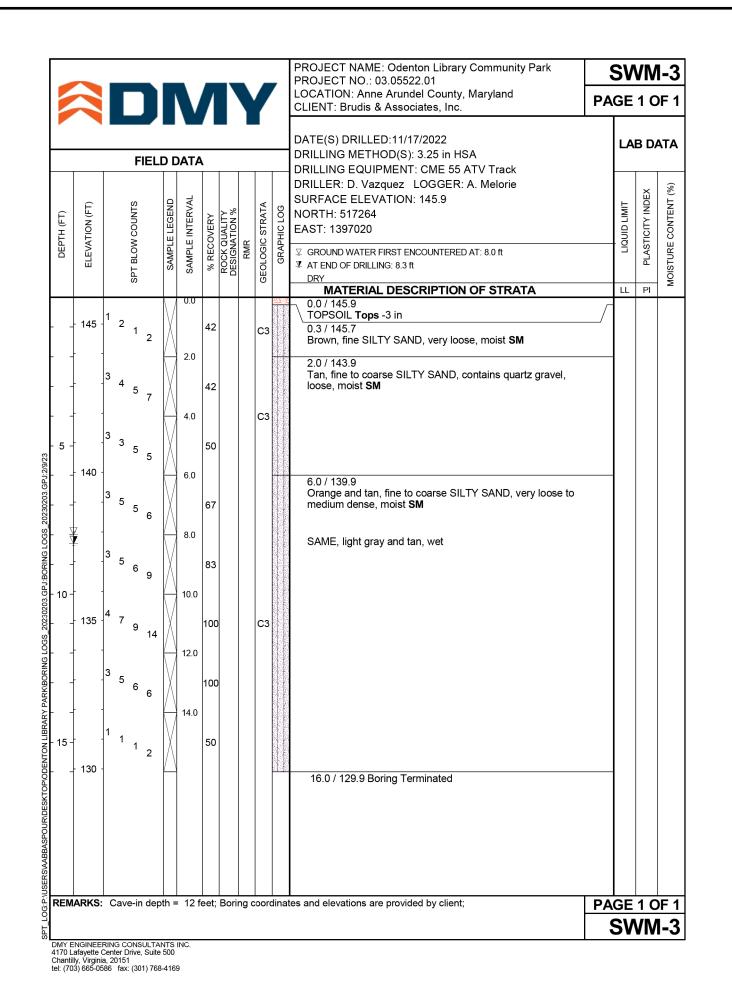


Table 3-1: Summary of Infiltration Tests

Infiltration	Infiltration	11054		Infiltration Test Results (inches/hour)					
Test Location	Test Depth (feet)	USDA Classification	Hydrologic Soil Group	1st Hr.	2nd Hr.	3rd Hr.	4th Hr.	Average	
SWM-1	5.0	SILT LOAM	С	5.82	3.68	2.16	0.52	3.05	
SWM-2	5.0	LOAMY SAND	С	15.18	6.84	2.70	1.20	6.48	
SWM-3	5.0	SAND	А	23.60	21.56	14.01	8.84	17.00	
SWM-4	5.0	SAND	А	23.14	18.42	13.72	9.56	16.21	
SWM-5	5.0	LOAM	С	10.12	6.84	3.22	0.62	5.20	

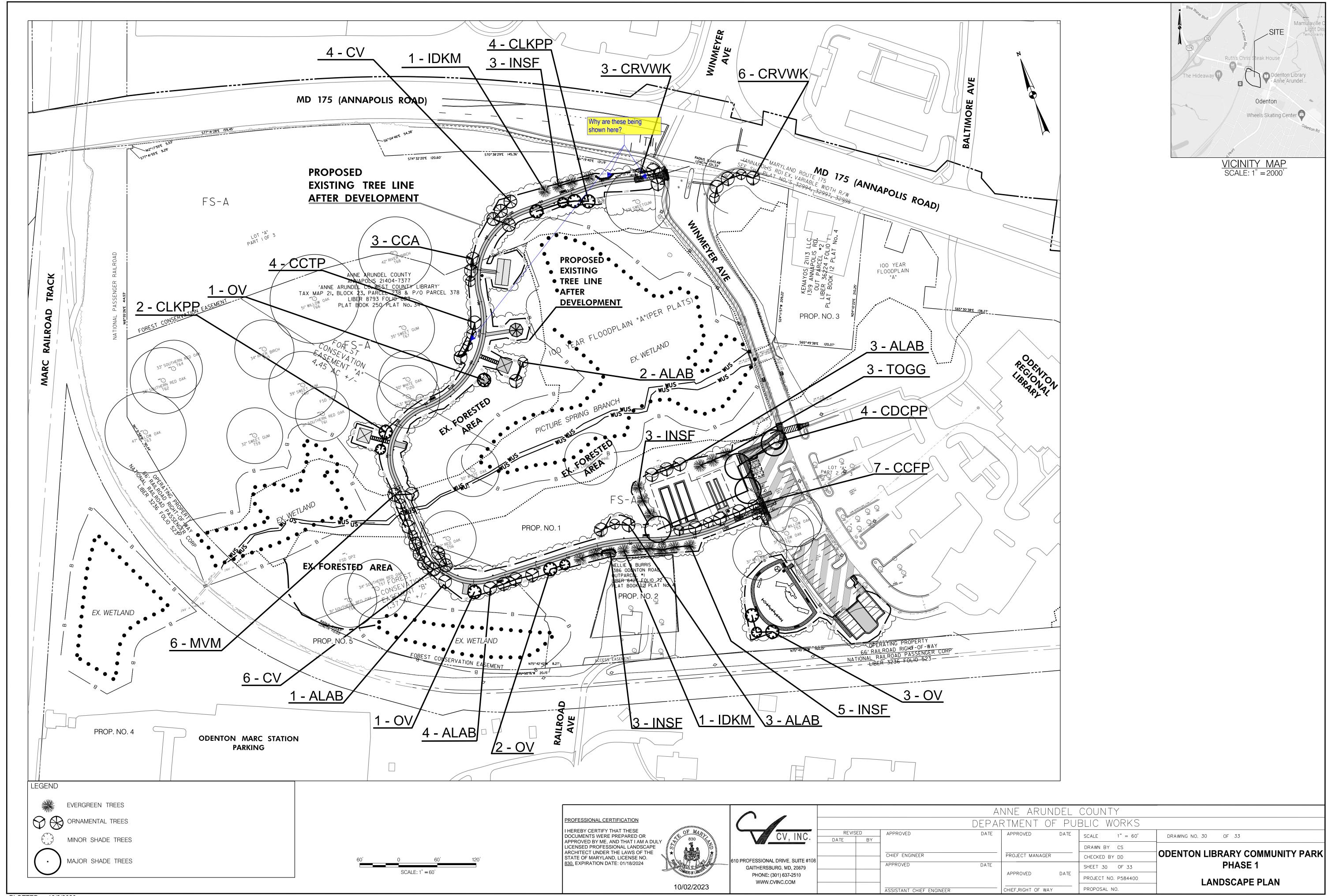
ASSISTANT CHIEF ENGINEER

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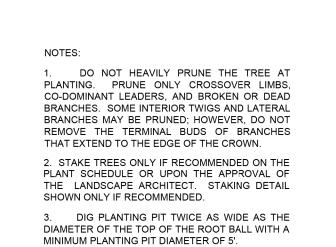
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS REVISED APPROVED DATE APPROVED DATE | SCALE NOT TO SCALE DATE BY DRAWN BY DMK ODENTON LIBRARY COMMUNITY PARK CHIEF ENGINEER PROJECT MANAGER CHECKED BY RL BRUDIS & ASSOCIATES, INC. PHASE 1 APPROVED Consulting Engineers SHEET 29 OF 33 11000 Broken Land Pkwy; Suite 450 APPROVED DATE SOIL BORING LOGS PROJECT NO. P479800 Phone 410-884-3607

CHIEF, RIGHT OF WAY

PROPOSAL NO.



PLOTTED: 10/2/2023
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CONSTRUCT 3" SAUCER ALL AROUND PLANTING -HOLE. FLOOD WITH WATER TWICE WITHIN 24

BACKFILL WITH PLANTING MIX (SEE PLANTING SPECIFICATIONS). TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT.

ROOTBALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL. PLANT 1/8 OF ROOTBALL ABOVE FINAL GRADE. - MULCH RING 6 FOOT DIAMETER MINIMUM 8 FOOT DIAMETER PREFERRED /- 2 TO 3 INCHES OF MULCH. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK. - REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM TOP OF ROOT BALL. DO

- EACH TREE MUST BE PLANTED SUCH THAT THE

TRUNK FLARE IS VISIBLE AT THE TOP OF THE

PLACE ROOT BALL ON UNEXCAVATED OR

COMPACTED SOIL.

NOT REMOVE WIRE BASKET. BEND TOP

OF WIRE BASKET DOWN INTO PLANTING

\ DECIDUOUS B&B TREE PLANTING DETAIL NOT TO SCALE

 SELECT ONLY NURSERY STOCK WITH A SINGLE LEADER UNLESS OTHERWISE SPECIFIED ON PLAN. PLANTS WITH CO-DOMINANT. MISSING, OR DAMAGED LEADERS SHALL BE REJECTED. 2. STAKE TREES ONLY IF RECOMMENDED ON THE PLANT SCHEDULE OR UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT. STAKING DETAIL SHOWN ONLY IF RECOMMENDED. 3. DIG PLANTING PIT TWICE AS WIDE AS THE DIAMETER OF THE TOP OF THE

ROOT BALL WITH A MINIMUM PLANTING PIT DIAMETER OF 5'. CONSTRUCT 3" SAUCER ALL AROUND -PLANTING HOLE. FLOOD WITH WATER

TWICE WITHIN 24 HOURS. BACKFILL WITH PLANTING MIX (SEE-PLANTING SPECIFICATIONS). TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT.

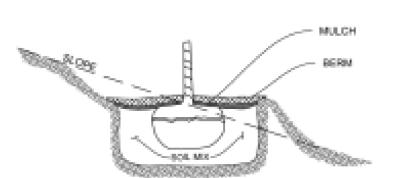
- EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOTBALL TREES WHERE THE TRUNK FLARE IS NOT VISIBLE your whater

SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL PLANT 1/8 OF ROOTBALL ABOVE FINAL - MULCH RING 6 FOOT DIAMETER MINIMUM 8 FOOT DIAMETER PREFERRED - 2 TO 3 INCHES OF MULCH. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.

REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM TOP OF ROOT BALL. REMOVE WIRE BASKET PRIOR TO

PLACE ROOT BALL ON UNEXCAVATED OR COMPACTED SOIL.

EVERGREEN B&B TREE PLANTING DETAIL / NOT TO SCALE



PLANTING FOR GRADED SLOPES DETAIL NOT TO SCALE

1:5 SLOPES OR MORE

LANDSCAPE NOTES AND SPECIFICATIONS

- PLANTS, RELATED MATERIAL, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTIONS, AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN. WHERE DISCREPENSIES EXIST BETWEEN STANDARDS & GUIDELINES REFERENCED WITHIN THESE PLANS AND DOCUMENTS AND THE ANNE ARUNDEL COUNTY LANDSCAPE MANUAL (CURRENT ADDITION), THE LATTER TAKES PRECEDENCE.
- 2. THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP, AND TRANSPLANT ALL OF THE PLANT MATERIALS CALLED FOR ON THE DRAWINGS AND/OR LISTED IN THE PLANT SCHEDULE.
- 3. PLANT NAMES USED IN THE PLANT SCHEDULE SHALL BE IN ACCORDANCE WITH HORTUS THIRD, BY L.H. BAILEY, 1976. WHERE DISCREPANCIES MAY EXIST, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ATTENTION OF THE
- 4. ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, THAT IS NOT NURSERY GROWN, UNIFORMLY BRANCHED, OR DOES NOT HAVE A VIGOROUS ROOT SYSTEM, OR DOES NOT CONFORM TO THE MOST RECENT EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN) STANDARDS FOR NURSERY STOCK WILL BE REJECTED.
- PLANT MATERIAL THAT IS NOT FIRST QUALITY, SOUND, VIGOROUS, WELL BRANCHED, HEALTHY, FREE FROM DEFECTS, DECAY, FIGURING ROOTS, SUNSCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BORERS AND ALL FORMS OF INSECT INFESTATIONS OR OBJECTIONABLE DISFIGUREMENTS WILL BE REJECTED. 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 BE REJECTED.
- ALL PLANTS MUST HAVE HEALTHY, WELL FURNISHED ROOT SYSTEMS WITHOUT GIRDLING OR OTHER DEFECTS.
- 7. ALL PLANTS SHALL HAVE BEEN GROWN UNDER THE SAME CLIMATIC CONDITIONS AS THE LOCATION OF THIS PROJECT FOR AT LEAST TWO YEARS BFORE PLANTING. ALL B& B PLANTS SHALL BE FRESHY DUG; NO HEALED-IN PLANTS OR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.
- 8. ALL SHADE TREES SHALL HAVE A CLEAR BRANCH HEIGHT OF 7 FEET IN AREAS OF PEDESTRIAN OR VEHICULAR CIRCULATION.
- 9. UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATIONS SHALL CONFORM TO THE MOST RECENT EDITION OF THE "LANDSCAPE SPECIFICATION GUILDELINES BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MD, DC, & VA", (HEREINAFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS.
- 10. OWNER SHALL 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 APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES. CONTRACTOR'S ATTENTION IS DIRECTED TO THE WATER AND MAINTENANCE REQUIREMENTS FOUND WITHIN THESE LANDSCAPE NOTES AND SPECIFICATIONS FOR THE ONE-YEAR WATERING AND REPLACEMENT OF SPECIFIED PLANT MATERIAL REQUIREMENTS.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL RELEVANT AND APPROPRIATE UTILITY COMPANIES, UTILITY CONTRACTORS, AND "MISS UTILITY" A MINIMUM OF 48 HOURS PRIOR TO THE BEGINNING OF ANY WORK. CONTRACTOR MAY MAKE MINOR ADJUSTMENTS IN SPACING AND LOCATION OF PLANT MATERIAL TO VOID CONFLICTS WITH UTILITIES. MAJOR CHANGES WILL REQUIRE THE APPROVAL OF THE LANDSCAPE ARCHITECT. DAMAGE TO EXISTING STRUCTURE AND UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- 12. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL MATERIAL IN THE PROPER PLANTING SEASON FOR EACH PLANT TYPE. ALL PLANTINGS ARE TO BE COMPLETED WITHIN ONE GROWING SEASON OF COMPLETION OF SITE CONSTRUCTION. DO NOT PLANT PINUS STROBUS OR XCUPRESSACYPARIS LELANDII BETWEEN NOVEMBER 15 AND MARCH 15. LANDSCAPE PLANTS ARE NOT TO BE INSTALLED BEFORE SITE IS GRADED TO FINAL GRADE.
- 13. ALL AREAS WITHIN CONTRACT LIMITS DISTURBED DURING OR PRIOR TO CONSTRUCTION NOT DESIGNATED TO RECEIVE PLANTS AND MULCH SHALL BE FINE GRADED, GRASS SEED PLANTED, AND COVERED WITH STRAW MULCH, OR SODDED IF CALLED FOR BY THE PLANS. ALL SEEDING AND SODDING SHALL BE AS PER "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN URBANIZAING AREAS" AS PUBLISHED BY THE MARYLAND DEPARTMENT OF NATURAL RESOURCES.
- 14. BID SHALL BE BASED ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM ACTUAL SITE CONDITION DIFFERING FROM THOSE INDICATED ON DRAWINGS AND THSE NOTES AND SPECIFICATIONS.
- 15. PLANT QUANTITIES ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN TAKE PRECEDENCE. WHERE DISCREPANCIES ON THE PLAN EXIST BETWEEN THE SYMBOLS AND THE CALL-OUT LEADER, THE NUMBER OF SYMBOLS TAKE PRECEDENCE.
- 16. ALL SHRUBS AND GROUNDCOVER AREAS SHALL BE PLANTED IN CONTINUOUS PLANTING BEDS, PREPARED AS SPECIFIED AND SHOWN IN PLANTING DETAILS, UNLESS OTHERWISE INDICATED ON PLANS. BEDS TO BE MULCHED WITH MINIMUM 2" AND MAXIUMUM 3" OF COMPOSTED, DOUBLE-SHREDDED HARDWOOD MULCH THROUGHOUT.

- 17. POSITIVE DRAINAGE SHALL BE MAINTED ON PLANTING BEDS (MINIMUM 2 PERCENT SLOPE).
- 18. BED PREPARATION SHALL BE AS FOLLOWS: TILL INTO A MINIMUM DEPTH OF 18" FOR SHRUBS AND 12" FOR HERBACEOUS PERENNIALS, ANNUALS, GROUND COVERS AND VINES: 1 YARD OF COMPRO OR LEAFGRO PER 200 SF OF PLANTING BED, AND 1 YARD OF TOPSOIL PER 100 SF OF BED. ADD 3 LBS OF STANDARD 5-10-5 FERTILIZER PER CUBIC YARD OF PLANTING MIX AND TILL. ERICACEOUS PLANTS (AZALEAS, RHODODENDRONS, ETC): TOP DRESS AFTER PLANTING WITH IRON SULFATE OR COMPARABLE PRODUCT ACCORDING TO PACKAGE DIRECTIONS. TAXSUS BACCATA 'REPANDENS' (ENGLISH WEEPING YEWS): TOP DRESS AFTER PLANTING WITH 1/4 TO 1/2 CUP LIME EACH.
- 19. PLANTING MIX: FOR TREES NOT IN A PREPARED BED, MIX 50 PERCENT NATIVE SOIL & WITH 50 PERCENT COMPOSTED ORGANIC MATERIAL SUCH AS LEAFGRO TO USE AS BACKFIL, SEE TREE PLANTING DETAIL.
- 20. WEED & INSECT CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL. FOR TREE PLANTING, APPLY A PRE-EMERGENT ON TOP OF SOIL AND ROOT BALL BEFORE MULCHING. CAUTION: FOR AREAS TO BE PLANTED WITH A GROUND COVER, BE SURE TO CAREFULLY CHECK THE CHEMICAL USED TO ASSUE ITS ADAPTABILITY TO THE SPECIFIC GROUNDCOVER TO BE TREATED. MAINTAIN THE MULCH WEED-FREE FOR THE EXTENT OF THE WARRANTY PERIOD. UNDER NO CIRCUMSTANCES IS A PESTICIDE CHLORPYRIFOS CONTAINING TO BE USED AS A MEANS OF PEST CONTROL.
- 21. WATERING: ALL PLANT MATERIAL PLANTED SHALL BE WATERED THROUGHLY THE DAY OF PLANTING. ALL PLANT MATERIAL NOT YET PLANTED SHALL BE PROPERLY PROTECTED FROM DRYING OUT UNTIL PLANTED. AT A MINIMUM. WATER UNPLANTED PLANT MATERIAL DAILY AND AS NECESSARY TO AVOID DESSICATION. WATER AS NEEDED UNTIL FINAL ACCEPTANCE BU THE COUNTY. WATER AS NEEDED FOR THE FIRST YEAR AFTER THE FINAL ACCEPTANCE BY THE COUNTY.
- 22. PRUNING: DO NOT HEAVILY PRUNE TREES AND SHRUBS AT PLANTING. PRUNE ONLY BROKEN, DEAD, OR DISEASED BRANCHES. PRUNE ACCORDING TO ACCEPTED STANDARD PRUNING PRACTICES TO MINIMIZE THE AREA CUT. ALL CUTS SHALL BE MADE WITH SHARP TOOLS. TRIM ALL EDGES SMOOTH. NO TREE WOUND DRESSINGS SHALL BE APPLIED.
- 23. PROTECTION OF EXISTING VEGETATION TO REMAIN SHALL BE IN ACCOMPLISHED VIA THE TEMPORARY INSTALLATION OF 5 FOOT HIGH BLAZE ORANGE OR BLUE PLASTIC MESH FENCE AS INDICATED ON THE PLAN AND AS SHOWN IN THE MARYLAND STATE FOREST CONSERVATION MANUAL DETAIL D-7. INSTALL FENCE AT THE DRIPLINE - REFER TO DETAIL.

		ODENTON COM	IMUNITY PAR	PLANT	SCHEDULE			
SYM	Qty	Genus	Species	Cultivar	Common Name	Plant Size	Root	Comments
		MAJOR	SHADE	TREES				
CDCPP	4	Celtis	occidentalis	Prarie Pride	Prarie Pride Hackberry	2.0 - 2.5" min cal	B&B	full crown, ungirdled roots
		MINOR	SHADE	TREES				
CLKPP	6	Cladrastis	kentukea	Perkins Pink	Perkins Pink Yellowwood	2.0 - 2.5" min cal	B&B	full crown, ungirdled roots
ov	7	Ostrya	virginiana		Hophornbeam	2.0 - 2.5" min cal	B&B	full crown, ungirdled roots
		ORNAMENTAL	TREES					
ALAB	13	Amelanchier	leavis	Autumn Brilliance	Autumn Brilliance	1.5" min	В&В	full crown, ungirdled roots
CCFP	7	Cercis	canadensis	Forest Pansy	Forest Pansy Redbud	1.5" min	B&B	full crown, ungirdled roots
ССТР	4	Cercis	canadensis	Tennessee Pink	Tennessee Pink Redbud	1.5" min	B&B	full crown, ungirdled roots
CV	10	Chionanthus	virginicus	Floyd	Floyd White Fringetree	1.5" min	B&B	full crown, ungirdled roots
CRVWK	9	Crateagus	viridis	Winter King	Winter King Hawthorne	1.5" min	B&B	full crown, ungirdled roots
MVM	6	Magnolia	virginiana	Moonglow	Moonglow Sweet Bay Magnolia	1.5" min	B&B	full crown, ungirdled roots
		EVERGREEN	TREES					
		LVLINONLLIN	TREES					
IDKM	2	llex		Dr Kassab	Dr Kassab Holly			
INSF	14	llex		Nellie R Stevens	Nellie R Stevens Holly	6' Ht Min	B&B	full crown, ungirdled roots
TOGG	3	Thuja	occidentalis	Green Giant	Green Giant Arborvitae	6' Ht Min	В&В	full crown, ungirdled roots

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 830,EXPIRATION DATE: 01/18/2024

10/02/2023

0 PROFESSIONAL DRIVE, SUITE #108 GAITHERSBURG, MD, 20879 PHONE: (301) 637-2510 WWW.CVINC.COM

REVISED APPROVED DATE BY APPROVED

ASSISTANT CHIEF ENGINEER

DEPARTMENT OF PUBLIC WORKS DATE APPROVED DATE SCALE 1" = 60'DRAWN BY CHIEF ENGINEER PROJECT MANAGER CHECKED BY DD SHEET 31 OF 33

APPROVED

CHIEF, RIGHT OF WAY

ANNE ARUNDEL COUNTY

DATE

PROJECT NO. P584400

PROPOSAL NO.

DRAWING NO. 31 OF 33 ODENTON LIBRARY COMMUNITY PARK PHASE 1 LANDSCAPE PLAN

NOTES AND DETAILS

