

STANDARD RESPONSIBILITY NOTES:

- I (WE) CERTIFY THAT:
 - 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 COUNTY DEPARTMENT OF PUBLIC WORKS BOARD OF SUPERVISORS OR THEIR AUTHORIZED AGENTS.
 - 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: _____
 - 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.
- 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.
- THE GRADING AND SEDIMENT CONTROL APPROVAL ON THIS PLAN EXTENDS ONLY TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE.
- 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.
- 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 THE ORDINANCE.
- ALL MATERIAL SHALL BE TAKEN TO A SITE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN.
- 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.
- APPROVAL FROM THE INSPECTOR MUST BE REQUESTED ON FINAL STABILIZATION OF ALL SITES PRIOR TO REMOVAL OF SEDIMENT AND EROSION CONTROLS.
- EXISTING TOPOGRAPHY MUST BE FIELD VERIFIED BY RESPONSIBLE PERSONNEL TO THE SATISFACTION OF THE SEDIMENT CONTROL INSPECTOR PRIOR TO COMMENCING WORK.

SIGNATURE OF DEVELOPER/OWNER _____ DATE _____
 PRINT NAME: _____
 TITLE: _____
 ADDRESS: ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS
 2662 RIVA ROAD
 ANNAPOLIS, MARYLAND 21401
 TELEPHONE NUMBER: _____
 EMAIL ADDRESS: _____

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 AASCD PLAN SUBMITTAL GUIDELINES AND THE CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER.

MD P.E. LICENSE # 27734
 MD LAND SURVEYOR LICENSE # _____
 MD LANDSCAPE ARCHITECT # _____
 NAME JESSE M. LINDSAY, P.E.
 FIRM NAME WHITNEY BAILEY COX & MAGNANI, LLC
 ADDRESS 300 E. JOPPA ROAD, SUITE 200
 CITY TOWSON STATE MD ZIP CODE 21286 DATE _____

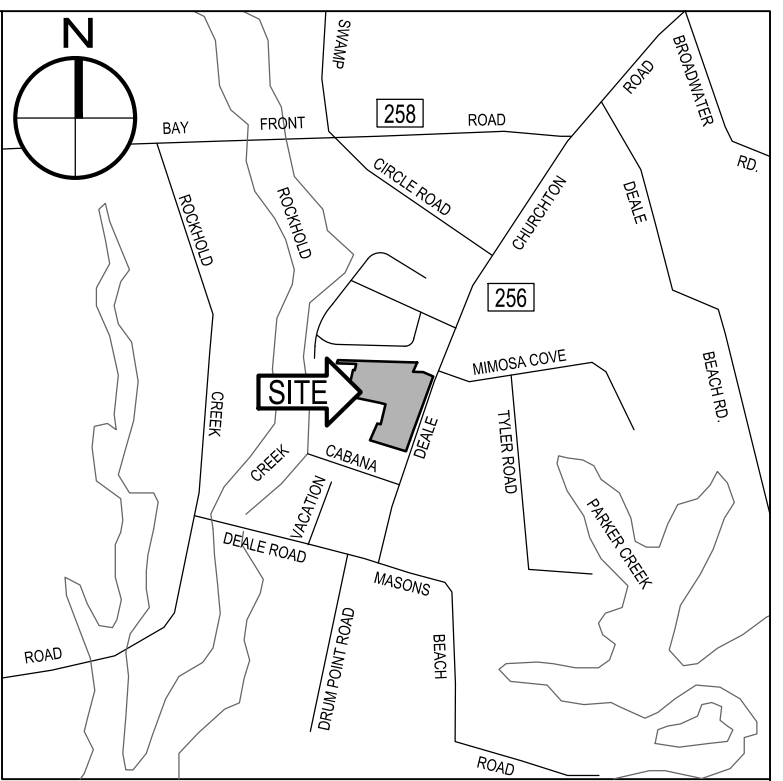
NOTE: THE CONSULTANT'S CERTIFICATION MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IF THE SITE LIES WITHIN THE SEVERN RIVER WATERSHED.

GENERAL CONSTRUCTION NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ANNE ARUNDEL COUNTY STANDARD SPECIFICATIONS AND/OR DETAILS FOR CONSTRUCTION AND THE STATE HIGHWAY ADMINISTRATIONS HIGHWAY DRAINAGE MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION UNLESS OTHERWISE NOTED.
- THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS AND ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL CONTACT "MSS UTILITY" AT 1-800-257-7777 A MINIMUM OF 96 HOURS IN ADVANCE OF ANY EXCAVATION, BORING, PILE DRIVING AND/OR DIGGING FOR THE LOCATION OF GAS, ELECTRIC, TELEPHONE, WATER AND SEWER LINES.
- MECHANICAL EXCAVATION SHALL NOT BE CONDUCTED WITHIN 3 FEET HORIZONTALLY OR WITHIN 2 FEET VERTICALLY OF KNOWN UTILITY LOCATIONS. HAND OR SOFT DIGGING SHALL BE DONE WITHIN THESE LIMITS. UNDERGROUND UTILITIES, ONCE UNCOVERED, SHALL BE PROTECTED FROM BEING STRUCK BY EQUIPMENT.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
- ALL EXCESS SOIL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION.
- DISTURBANCES THAT DO NOT DRAIN TO A SEDIMENT CONTROL DEVICE SHALL BE STABILIZED BY THE END OF THE WORKDAY. NO MORE AREA SHALL BE DISTURBED THAN CAN BE STABILIZED BY THE END OF THE WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN APPROVED SEDIMENT CONTROL DEVICE. SLOPES SHALL BE STABILIZED IMMEDIATELY WITH TOPSOIL, SEED AND EROSION CONTROL MATTING (IF REQUIRED). SEE NOTE #18.
- ALL FILL AREAS SHALL BE CLEARED OF ALL VEGETATION AND DEBRIS PRIOR TO THE PLACEMENT OF FILL. FILL MATERIAL SHALL BE PLACED IN CONTROLLED LIFTS WITH A MAXIMUM THICKNESS OF 8" PRIOR TO COMPACTION THAT IS CONTINUOUS OVER THE ENTIRE AREA OF FILL. EACH LAYER OF FILL SHALL BE COMPACTED WITH THE MINIMUM NUMBER OF PASSES NECESSARY TO PRODUCE A FULL ASYMPTOTIC COMPACTION.
- ALL STONE USED FOR THE PROTECTIONS WORK SHALL BE DURABLE QUARRIED STONE. THE STONE SHALL BE HARD AND ANGULAR, FREE FROM OTHER LAMINATIONS, WEAK CLEAVAGES, OR UNDESIRABLE WEATHERING CHARACTER THAT IT WILL NOT DISINTEGRATE FROM THE ACTION OF AIR, SALT, WATER, OR HANDLING. SEDIMENTARY STONE WILL GENERALLY BE UNACCEPTABLE. INDIVIDUAL STONES WILL BE FREE FROM THIN, SLABBY PIECES HAVING A MAXIMUM DIMENSION OF MORE THAN THREE AND ONE-HALF TIMES THE LEAST DIMENSION.
- ANY EXCAVATION THAT MEETS SAND FILL REQUIREMENTS MAY BE REUSED. OTHERWISE, UNSUITABLE MATERIAL IS TO BE DISPOSED OF AT AN APPROVED LOCATION.
- THE WORK INSTALLED AS A PART OF THE PROJECT WILL CONTAIN NO FAULTY MATERIALS, OR ANY CARELESS, OR UNSKILLED WORKMANSHIP.
- THE CONTRACTOR SHALL CORRECT, REPAIR, OR REMOVE AND REPLACE WITH PROPER WORK AT NO COST TO THE COUNTY, OR ANY WORK FOUND NOT TO BE AS PER THE GUARANTEE. THE CONTRACTOR SHALL ALSO MAKE GOOD ALL DAMAGES CAUSED TO OTHER WORK OR MATERIALS IN THE PROCESS OF FULFILLING THE GUARANTEE.
- CONTRACTOR MAY UTILIZE STOCKPILE AREAS AS DELINEATED ON PLANS.
- ALL DISTURBED AREAS SHALL HAVE PERMANENT OR TEMPORARY STABILIZATION COMPLETED WITHIN THREE CALENDAR DAYS ON SLOPES GREATER THAN 3:1 AND TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS. SEVEN CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS.
- ALL TREES WITH A DIAMETER GREATER THAN 12 INCHES WITHIN THE LIMIT OF DISTURBANCE SHALL NOT BE REMOVED UNLESS PRIOR APPROVAL IS OBTAINED OR EXPLICITLY SHOWN ON THE PLANS TO BE REMOVED. ALL TREES WITHIN THE LIMIT OF DISTURBANCE THAT ARE NOT TO BE REMOVED SHALL BE PROTECTED WITH TREE PROTECTION FENCING OR TREE REINFORCED PLANKING.
- ALL DISTURBED AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH TEMPORARY SOIL STABILIZATION MATTING THAT HAS A SUFFICIENT DESIGN SHEAR STRESS FOR THE APPLICATION OR AS SHOWN ON THE APPROVED SEDIMENT AND EROSION CONTROL PLANS.
- ALL ROADS SHALL BE CLEARED AND CLEARED BY THE END OF EACH WORK DAY. ANY MUD OR ROCKS TRACKED ON THE ROADWAYS SHALL BE SWEEPED BEFORE THE END OF EACH WORK DAY.
- ALL STAKING, RE-STAKING, AND CUT SHEETS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH STATE OF MARYLAND OCCUPATIONAL SAFETY LAWS.
- CONTRACTOR MUST ENSURE THAT COPIES OF FEDERAL, STATE, AND COUNTY PERMITS ARE POSTED ON SITE PRIOR TO THE START OF ANY WORK.
- CONTRACTOR SHALL RESTORE ALL AREAS IMPACTED BY CONSTRUCTION ACTIVITY. THIS SHALL INCLUDE BUT NOT LIMITED TO GRASS AREAS, ROADS, AND PAVED AREAS, ETC.

ANNE ARUNDEL COUNTY MARYLAND DEPARTMENT OF PUBLIC WORKS DEALE COMMUNITY PARK

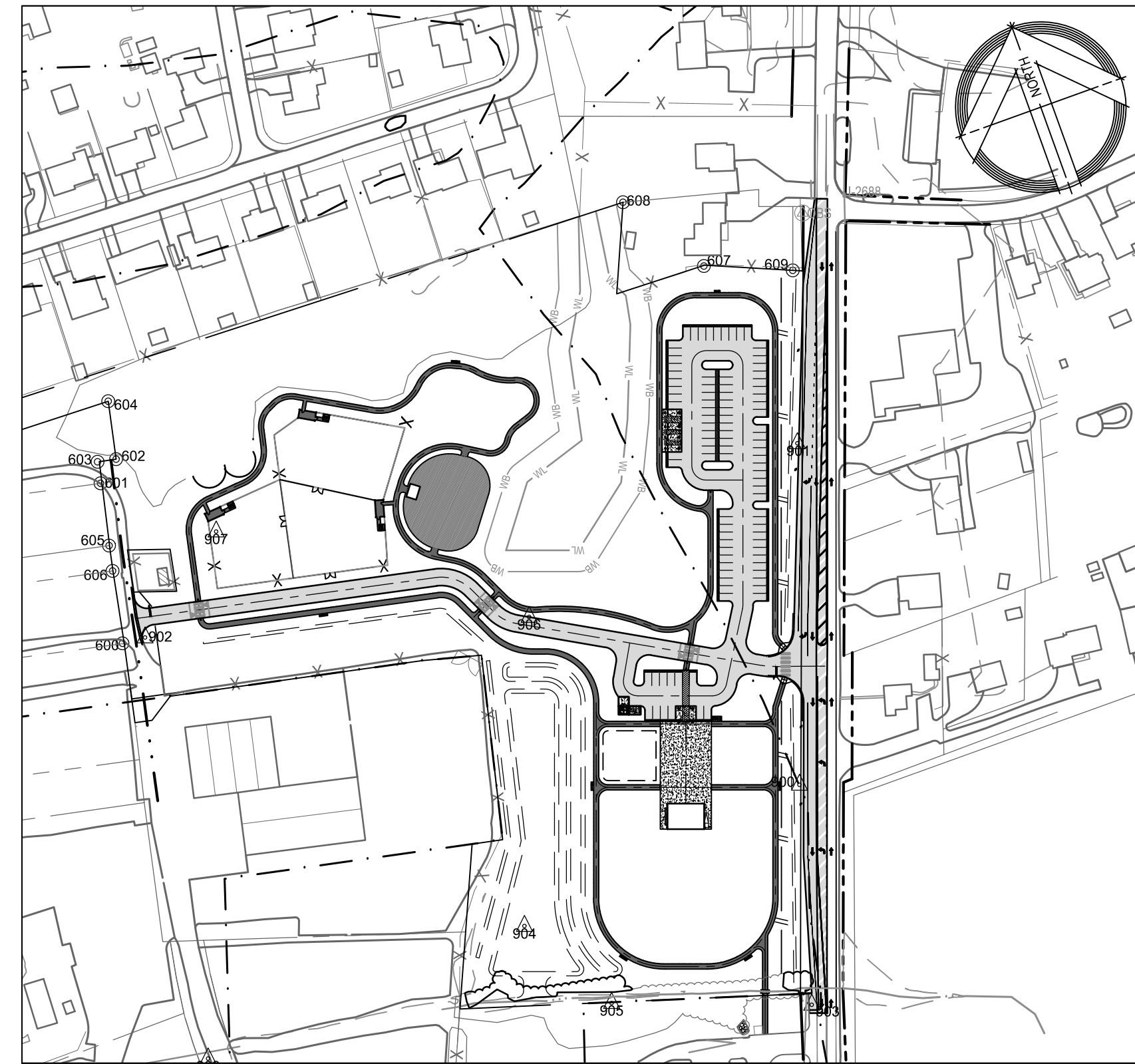
BID SET SUBMISSION - NOVEMBER 7, 2023
 DEALE CHURCHTON ROAD, DEALE, MARYLAND 20751
 PROJECT NO. P582000 , CONTRACT NO. P582001



VICINITY MAP
SCALE: 1" = 2,000'



COPYRIGHT ADC, THE MAP PEOPLE
 PERMITTED USE NUMBER 20505148
 MAP 34, A-6, 25TH EDITION



LOCATION MAP
SCALE: 1" = 150'

INDEX OF DRAWINGS

CIVIL		ROADWAY IMPROVEMENTS		STRUCTURAL		ELECTRICAL	
SHEET NO.	SHEET TITLE	SHEET NO.	SHEET TITLE	SHEET NO.	SHEET TITLE	SHEET NO.	SHEET TITLE
1.	COVER SHEET	29.	EROSION AND SEDIMENT CONTROL-PHASE #1	37.	ROADWAY IMPROVEMENTS PLAN AND DETAILS	43.	GENERAL NOTES
2.	OVERALL EXISTING CONDITIONS PLAN	30.	EROSION AND SEDIMENT CONTROL-PHASE #2	38.	SIGNING AND PAVEMENT MARKING PLAN	44.	PAVILION FOUNDATION PLAN
3.	DEMOLITIONS PLAN	31.	EROSION AND SEDIMENT CONTROL NOTES	39.	MAINTENANCE OF TRAFFIC PLAN		
4.	DEMOLITIONS PLAN	32.	EROSION AND SEDIMENT CONTROL DETAILS	40.	LANDSCAPE PLAN		
5.	OVERALL SITE LAYOUT PLAN	33.	EROSION AND SEDIMENT CONTROL DETAILS	41.	ROADWAY SECTIONS		
6.	SITE LAYOUT PLAN	34.	FOREST STAND DELINEATION	42.	ROADWAY SECTIONS		
7.	SITE LAYOUT PLAN	35.	FOREST CONSERVATION PLAN				
8.	SITE DETAILS	36.	FOREST CONSERVATION PLAN NOTES AND DETAILS				
9.	SITE DETAILS						
10.	SITE DETAILS						
11.	SITE DETAILS						
12.	SITE DETAILS						
13.	OVERALL GRADING PLAN						
14.	GRADING PLAN						
15.	PROFILES						
16.	PROFILES						
17.	STORMWATER MANAGEMENT OVERALL PLAN						
18.	STORMWATER MANAGEMENT PART PLAN						
19.	STORMWATER MANAGEMENT PART PLAN						
20.	STORMWATER MANAGEMENT DETAILS						
21.	STORMWATER MANAGEMENT NOTES						
22.	CRITICAL AREA PLAN						
23.	EXISTING DRAINAGE AREA MAP						
24.	PROPOSED DRAINAGE AREA MAP						
25.	WATER QUALITY MAP						
26.	LANDSCAPE PLAN	45.	ELECTRICAL LEGEND				
27.	LANDSCAPE PLAN	46.	OVERALL SITE PLAN ELECTRICAL DETAILS & RISER DIAGRAMS				
28.	LANDSCAPE NOTES AND DETAILS	47.					

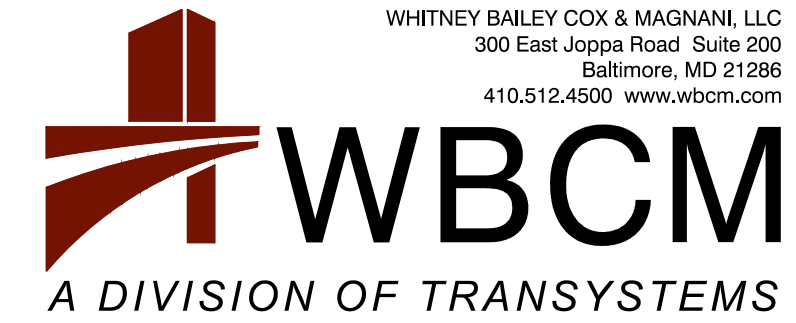
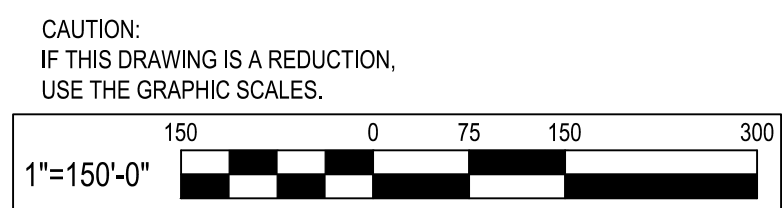
LEGEND

DESCRIPTION	EXISTING	DEMOLISH / REMOVE	NEW
BUILDING	EX. BLDG		
BITUMINOUS CONCRETE PAVING	EX. MACADAM		
PORTLAND CEMENT CONCRETE	EX. CONC.		
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM		
BITUMINOUS CONCRETE PEDESTRIAN WALK			
DECIDUOUS / EVERGREEN TREES	12" 6" 3"	12" 6" 3"	
CLEAN OUT			
DRAIN INLET			
ELECTRIC MH			
FIRE HYDRANT			
GAS VALVE			
HAND BOX			
INLET MH			
UTILITY POLE			
SANITARY MH			
SIGN (ONE-POST)			
STORM DRAIN MH			
STREET LIGHT			
TRAVERSE STATION			
BOLLARD			
WATER VALVE			
SPOT ELEVATION	+ 9.5		+ 9.5
MAJOR CONTOUR	10		10
MINOR CONTOUR	9		9
WALL			
CONC. CURB			
SURVEY LIMITS			
CHAIN LINK FENCE LINE	X X X		X X X
SPLIT RAIL FENCE LINE	// // //		// // //
O/H ELECTRIC	OHE		
U/G FIBER OPTIC	FO		
U/G GAS	G		
U/G SANITARY	SS		
U/G STORM	D		
U/G WATER	W		
U/G COMMUNICATION	C		
PROPERTY LINE			
RIGHT OF WAY			
SOIL BORING			
LIMIT OF DISTURBANCE			
SOIL LINES			



Know what's below.
Call before you dig.

BID SET



I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License #27734 Expiration Date: 07/12/2024

NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS SHOWN	DEALE COMMUNITY PARK
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.	COVER SHEET
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 01 OF 47	
		PROJECT NO.: P582001	
		CONTRACT NO.: P582001	

P:\2017\17141805\Drawings\07-Cover Sheet.dwg Nov 07, 2023 9:22am Plot By: remth

DESCRIPTION	EXISTING	DEMOLISH / REMOVE
BUILDING	EX. BLDG	[Hatched Box]
BITUMINOUS CONCRETE PAVING	EX. MACADAM	[Dotted Box]
PORTLAND CEMENT CONCRETE	EX. CONC.	[Stippled Box]
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM	[Diagonal Lines Box]
DECIDUOUS / EVERGREEN TREES	[Tree Symbols]	[Tree Symbols]

- DEMOLITION NOTES:**
- D-1 SAW CUT BITUMINOUS CONCRETE PAVING ALONG MARYLAND RTE. 256.
 - D-2 REMOVE EXISTING BITUMINOUS CONCRETE PAVING.
 - D-3 MILL 2" OF EXISTING BITUMINOUS PAVING.
 - D-4 REMOVE EXISTING BARN BUILDING STRUCTURE, EXISTING BLOCK BUILDING FOUNDATION TO REMAIN TO 2'-0" ABOVE GRADE FOR INTERPRETIVE SIGNAGE AND PEDESTRIAN PASSAGE OVER STREAM CONNECTING TO THE EXISTING LIBRARY PROPERTY.
 - D-5 REMOVE EXISTING SIGN.
 - D-6 REMOVE STORM DRAIN STRUCTURES AND CONNECTING PIPES.
 - D-7 REMOVE EXISTING SHRUBS AND PLANTER.
 - D-8 GRIND AND REMOVE EXISTING PAVEMENT MARKING.
 - D-9 REMOVE EXISTING WOOD BOLLARD.
 - D-10 CONTRACTOR TO COORDINATE WITH BG&E FOR REMOVAL OF EXISTING UTILITY POLE.
 - D-11 REMOVE EXISTING TREES.



NOTE:
THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING ELECTRIC TO SEWER PUMP STATION AND ALL UNDERGROUND UTILITIES BY TEST PITS OR OTHER METHODS APPROVED BY THE OWNER'S REPRESENTATIVE. AS REQUIRED TO VERIFY THE EXACT LOCATIONS AND DEPTHS WITHIN THE LIMIT OF DISTURBANCE PRIOR TO BEGINNING WORK. ALL UNDERGROUND UTILITIES SHALL BE PROTECTED AT THE CONTRACTOR'S EXPENSE.

CAUTION:
IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.

1"=30'-0"

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
A DIVISION OF TRANSYSTEMS

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

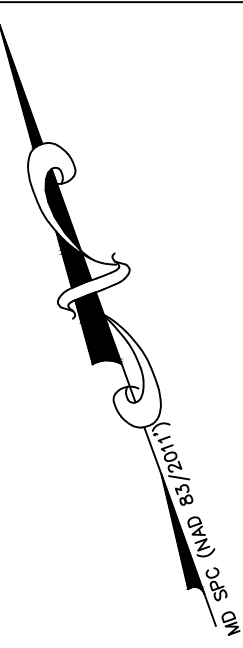
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 30'
CHIEF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY	SHEET NO. 03 OF 47
		PROJECT NO.: P582001
		CONTRACT NO.: P582001

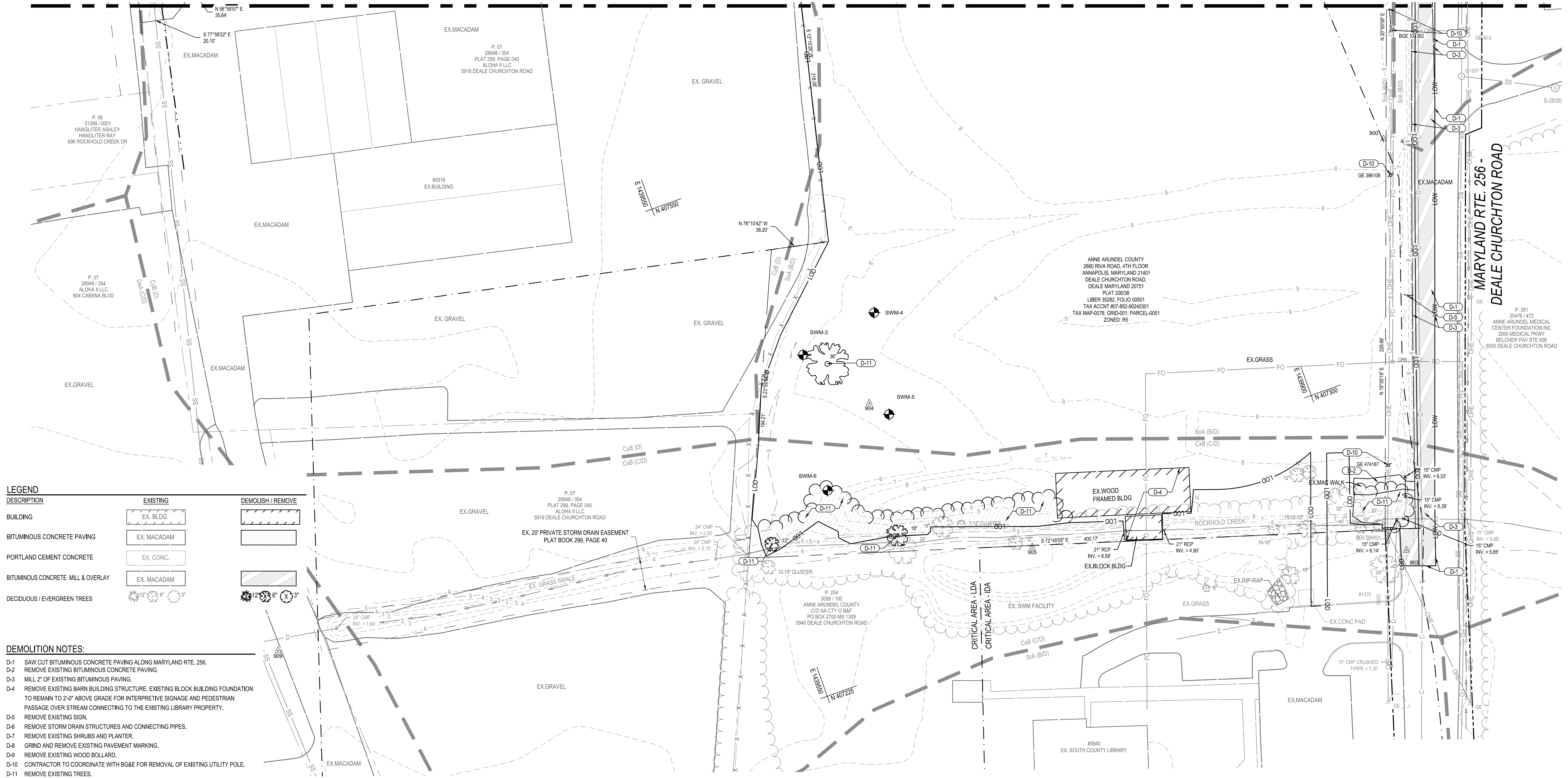
DEALE COMMUNITY PARK

DEMOLITION PLAN

P:\2017\17141805\Drawings\07-17141805-C101-Demolition Plan.dwg Nov 07, 2023 - 10:01am Plot By: rsmith

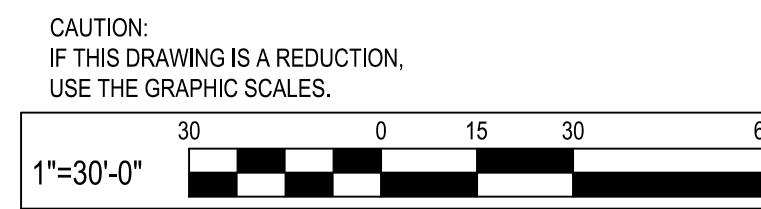


MATCH LINE SEE DEMOLITION PLAN



DESCRIPTION	EXISTING	DEMOLISH / REMOVE
BUILDING	EX. BLDG	[Hatched Box]
BITUMINOUS CONCRETE PAVING	EX. MACADAM	[Stippled Box]
PORTLAND CEMENT CONCRETE	EX. CONC.	[Cross-hatched Box]
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM	[Diagonal Hatched Box]
DECIDUOUS / EVERGREEN TREES	[Tree Symbols]	[Tree Symbols]

- DEMOLITION NOTES:**
- D-1 SAW CUT BITUMINOUS CONCRETE PAVING ALONG MARYLAND RTE. 266.
 - D-2 REMOVE EXISTING BITUMINOUS CONCRETE PAVING.
 - D-3 MILL 2" OF EXISTING BITUMINOUS PAVING.
 - D-4 REMOVE EXISTING BARN BUILDING STRUCTURE. EXISTING BLOCK BUILDING FOUNDATION TO REMAIN TO 2'-0" ABOVE GRADE FOR INTERPRETIVE SIGNAGE AND PEDESTRIAN PASSAGE OVER STREAM CONNECTING TO THE EXISTING LIBRARY PROPERTY.
 - D-5 REMOVE EXISTING SIGN.
 - D-6 REMOVE STORM DRAIN STRUCTURES AND CONNECTING PIPES.
 - D-7 REMOVE EXISTING SHRUBS AND PLANTER.
 - D-8 GRIND AND REMOVE EXISTING PAVEMENT MARKING.
 - D-9 REMOVE EXISTING WOOD BOLLARD.
 - D-10 CONTRACTOR TO COORDINATE WITH BG&E FOR REMOVAL OF EXISTING UTILITY POLE.
 - D-11 REMOVE EXISTING TREES.



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

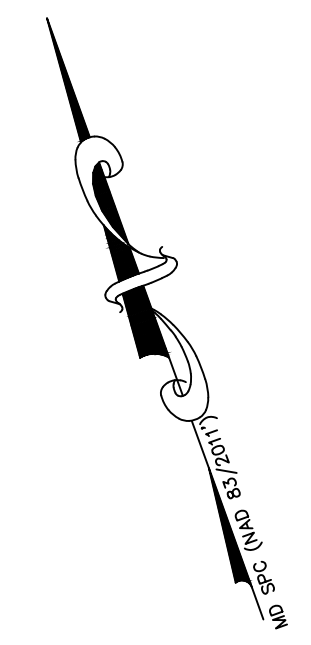
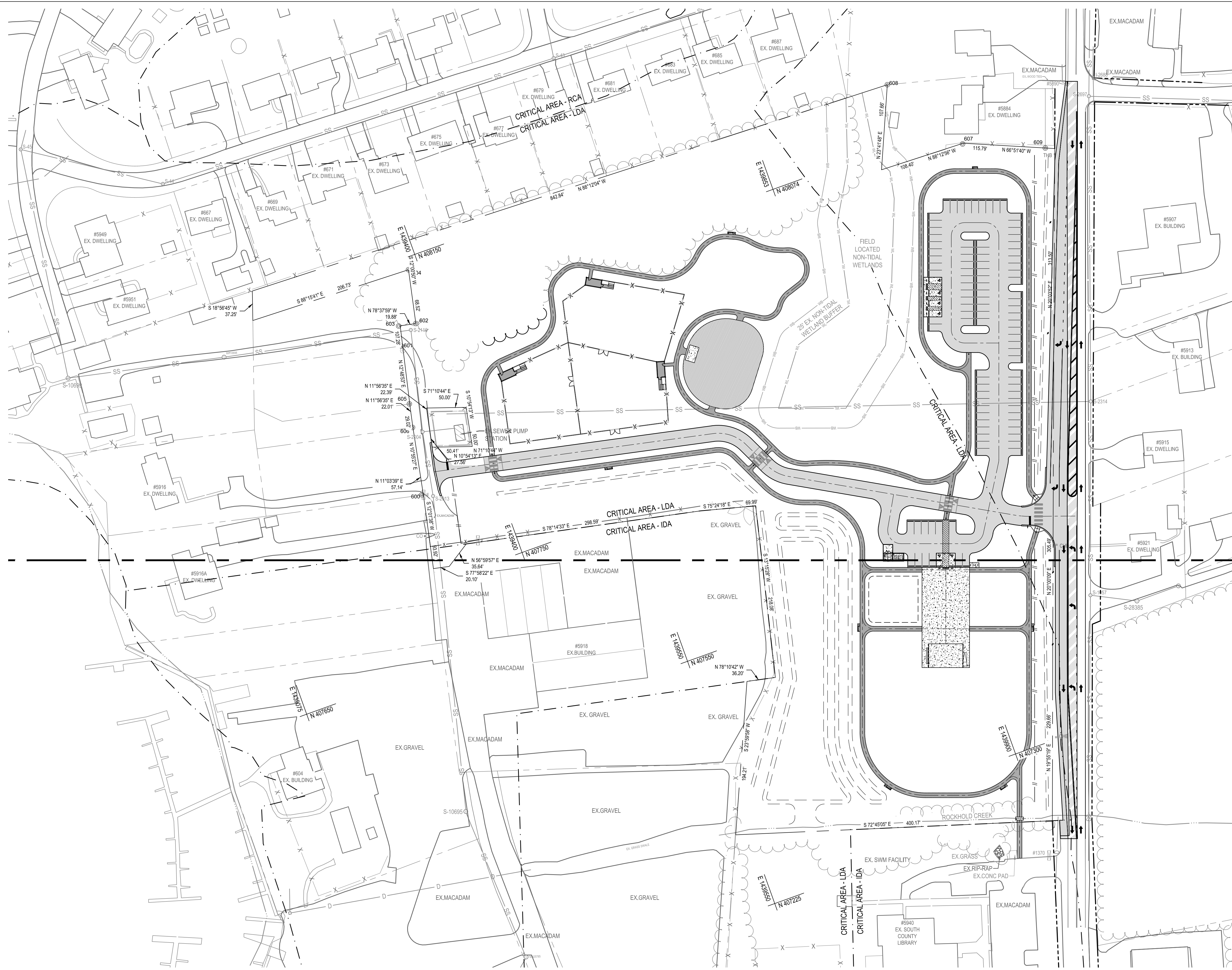
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 30'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 04 OF 47	
PROJECT NO.: P582001		CONTRACT NO.: P582001	

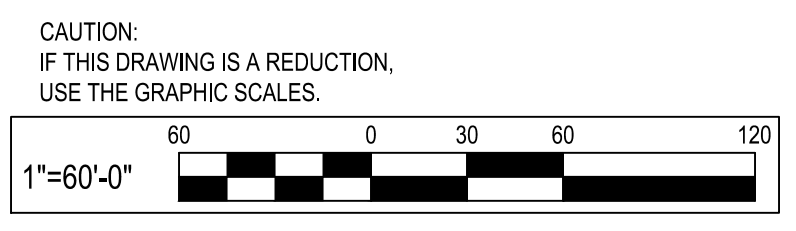
DEALE COMMUNITY PARK
DEMOLITION PLAN

P:\2017\17141805\Drawings\07-Ste\17141805-C10-Demolition Plan.dwg Nov 07, 2023 - 10:01am Plot By: rsmith

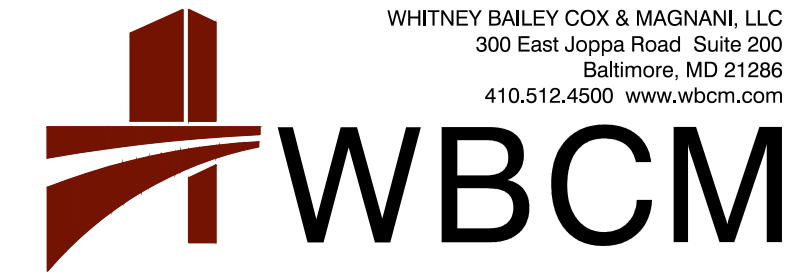
P:\2017\17141805\Drawings\07-17141805-C201-Layout_Plan.dwg Nov 07, 2023 - 10:12am Plot By: rsmith



LEGEND	EXISTING	NEW
DESCRIPTION		
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM	
BITUMINOUS CONCRETE PEDESTRIAN WALK		
DECIDUOUS / EVERGREEN TREES		
CLEAN OUT		
DRAIN INLET		
ELECTRIC MH		
FIRE HYDRANT		
GAS VALVE		
HAND BOX		
INLET MH		
UTILITY POLE		
SANITARY MH		
SIGN (ONE-POST)		
STORM DRAIN MH		
STREET LIGHT		
TRAVERSE STATION		
BOLLARD		
WATER VALVE		
SPOT ELEVATION		
MAJOR CONTOUR		
MINOR CONTOUR		
WALL		
CONC. CURB		
SURVEY LIMITS		
CHAIN LINK FENCE LINE		
SPLIT RAIL FENCE LINE		
O/H ELECTRIC		
O/H FIBER OPTIC		
U/G GAS		
U/G SANITARY		
U/G STORM		
U/G WATER		
U/G COMMUNICATION		
PROPERTY LINE		
RIGHT OF WAY		
SOIL BORING		
LIMIT OF DISTURBANCE		
SOIL LINES		



BID SET



WBCM
 A DIVISION OF TRANSYSTEMS

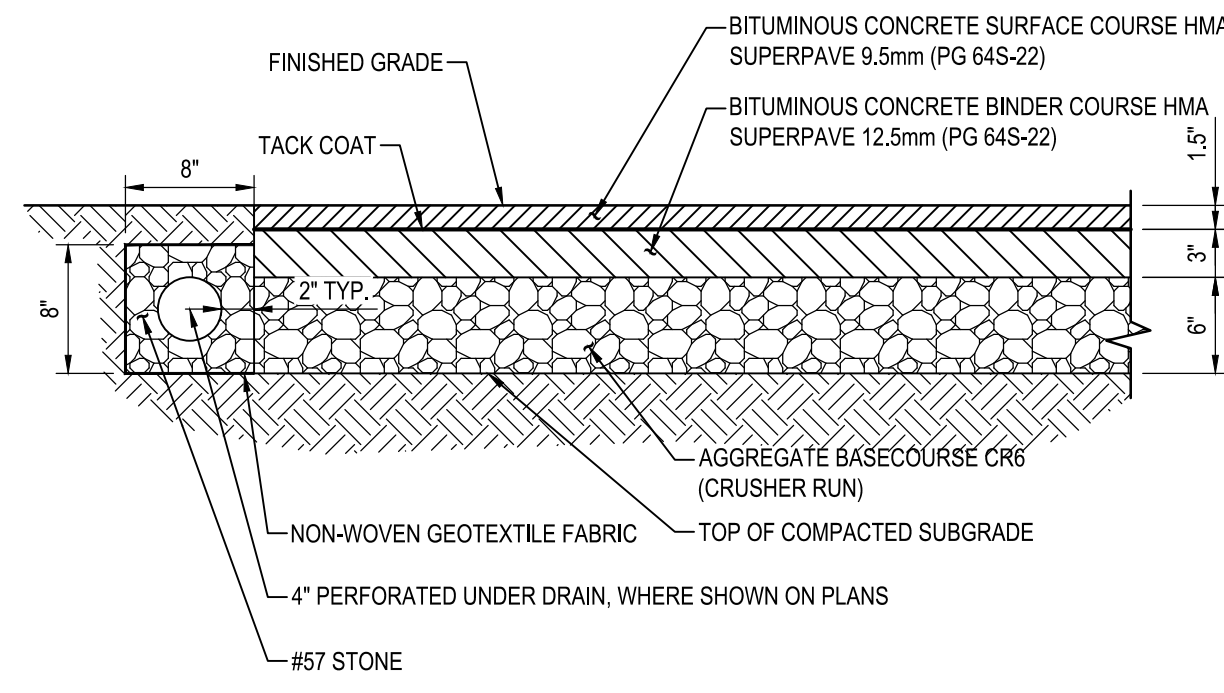
WHITNEY BAILEY COX & MAGNANI, LLC
 300 East Joppa Road Suite 200
 Baltimore, MD 21286
 410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License #22734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

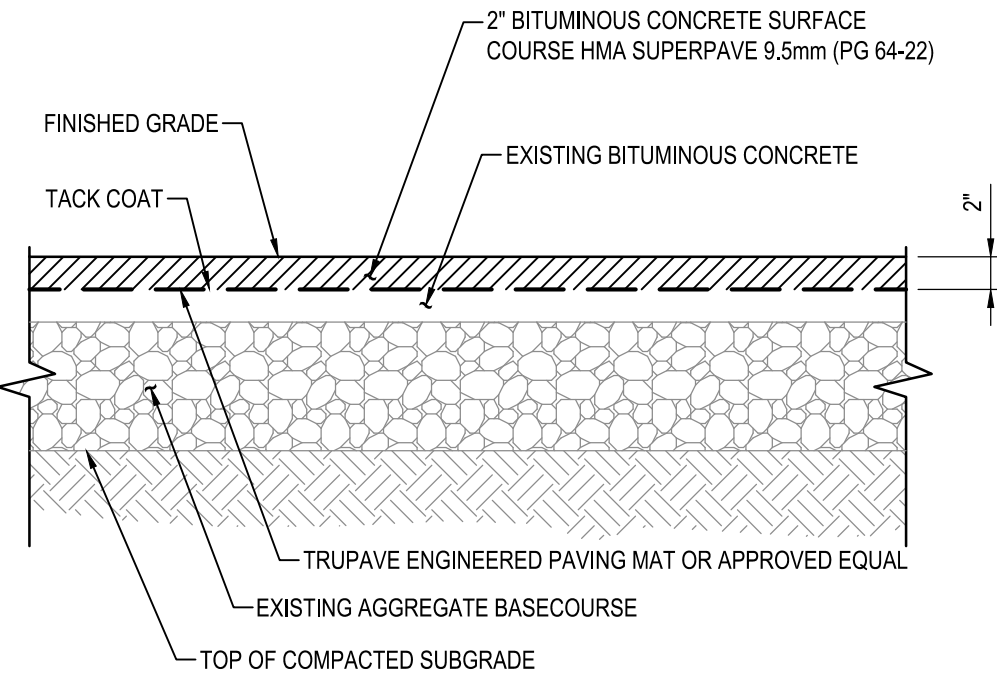
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE	SCALE: 1" = 60'	DEALE COMMUNITY PARK OVERALL SITE LAYOUT PLAN
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: R.S.S.	
APPROVED	DATE	APPROVED	DATE	CHECKED BY: R.W.H.	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY		SHEET NO. 05 OF 47	
				PROJECT NO.: P582001	
				CONTRACT NO.: P582001	



SECTION

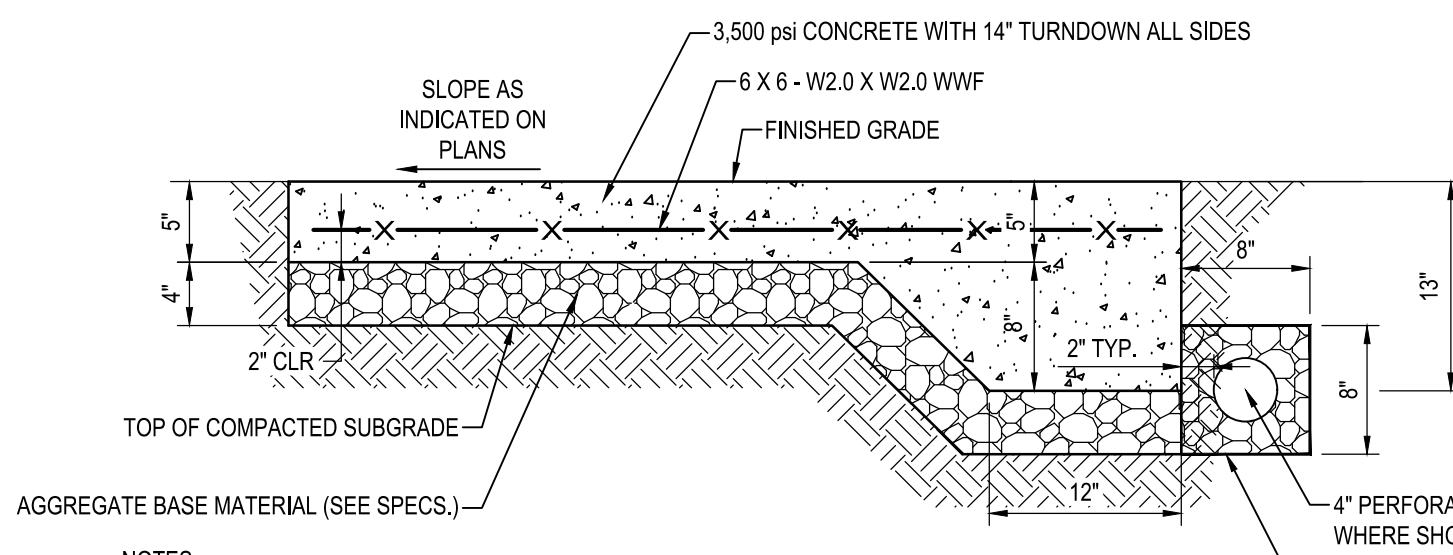
1 FULL DEPTH BITUMINOUS CONCRETE PAVING
SCALE: 1" = 1'-0"



SECTION

2 BITUMINOUS CONCRETE MILL AND OVERLAY
SCALE: 1" = 1'-0"

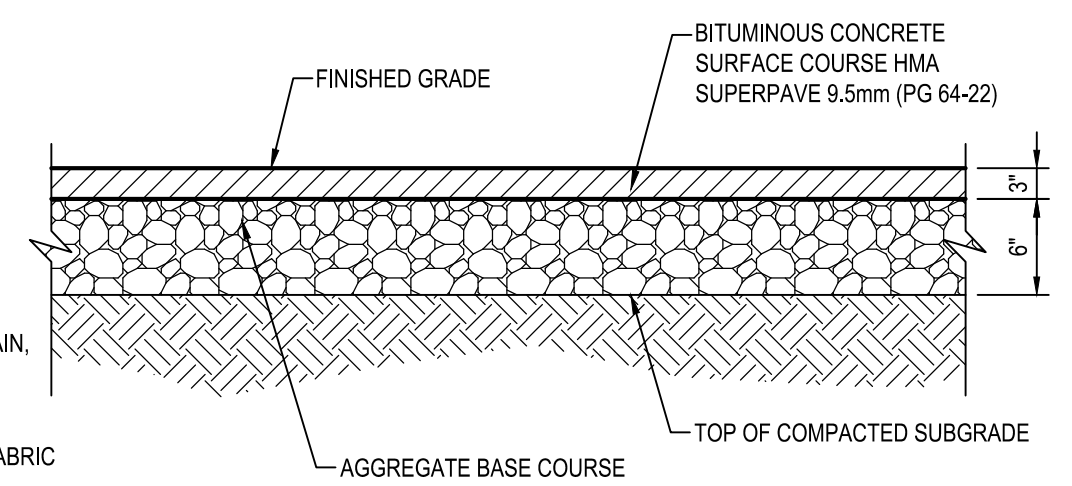
- NOTES:
1. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
 2. AT PERIMETERS OF OVERLAY PAVING AREAS, MEET NEW ROAD PAVING SECTION FINISHED GRADE FLUSH.
 3. MILL THE TOP 2 INCHES OF THE PARKING LOT AND ROADWAY SURFACE.
 4. EXAMINE THE MILLED SURFACE, CUT OUT ANY FAILED BASE COURSE AREA EXHIBITING ALLIGATOR OR PATCHWORK CRACKING, WHICH MAY HAVE BEEN HIDDEN BELOW THE SURFACE COURSE, TO EXPOSE THE UNDERLYING SOIL OR CRUSHED STONE BASE.
 5. CLEAN EXPOSED LINEAR CRACKS IN THE EXPOSED SURFACE, FILLING CRACKS THINNER THAN 1/4-INCH WIDTH WITH LIQUID ASPHALT AND FILLING CRACKS LARGER THAN 1/4-INCH WITH SAND/ASPHALT MIX.
 6. PLACE THE LIQUID ASPHALT TACK COAT AND APPROPRIATE PAVEMENT GRADE GEOTEXTILE FABRIC ACROSS THE ENTIRE OVERLAY AREA TO MEET MANUFACTURER'S REQUIREMENTS. PAVING FABRIC SHOULD BE INSTALLED BY AN APPROVED SPECIALTY CONTRACTOR.
 7. PLACE A 2 INCH THICK OVERLAY SECTION OF HOT-MIX ASPHALT (9.5MM SUPERPAVE, LEVEL 10) OVER THE ENTIRE OVERLAY AREA.



SECTION

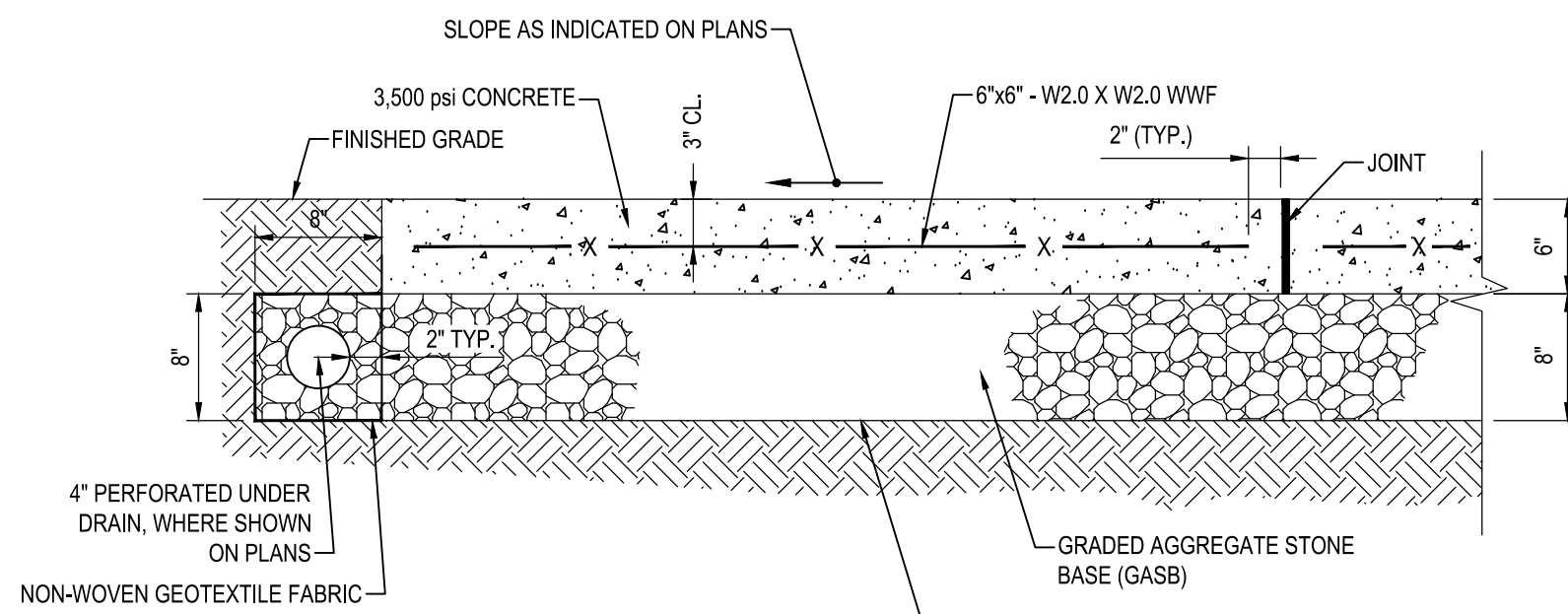
3 CONCRETE SIDEWALK
SCALE: 1" = 1'-0"

- NOTES:
1. 1/2\"/>
 2. SCORING SHALL BE PROVIDED AT 4' ON-CENTER FOR 4' & 8' WALKS, 5' ON-CENTER FOR 5' & 10' WALKS, AND 6' ON-CENTER FOR 6' AND LARGER NOT PREVIOUSLY MENTIONED.



SECTION

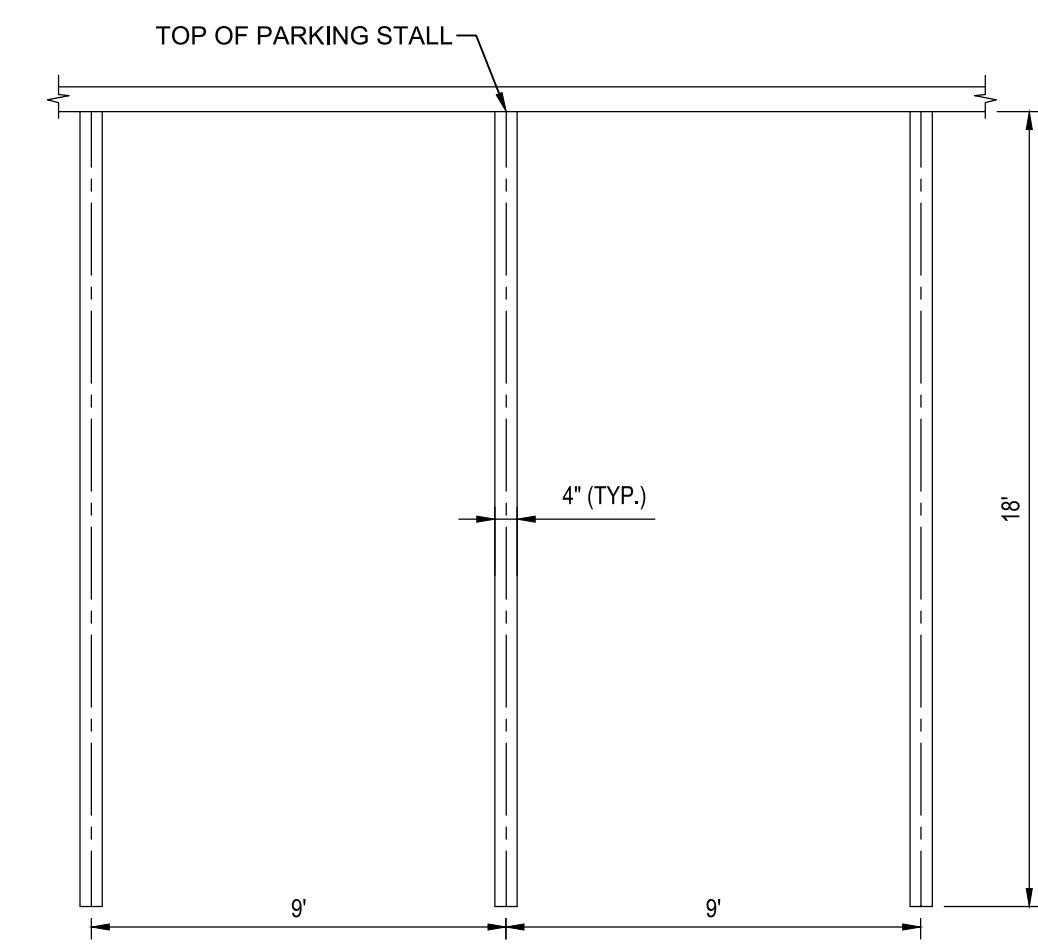
4 BITUMINOUS PEDESTRIAN TRAIL
SCALE: 1" = 1'-0"



SECTION

5 CONCRETE PAVING
SCALE: 1" = 1'-0"

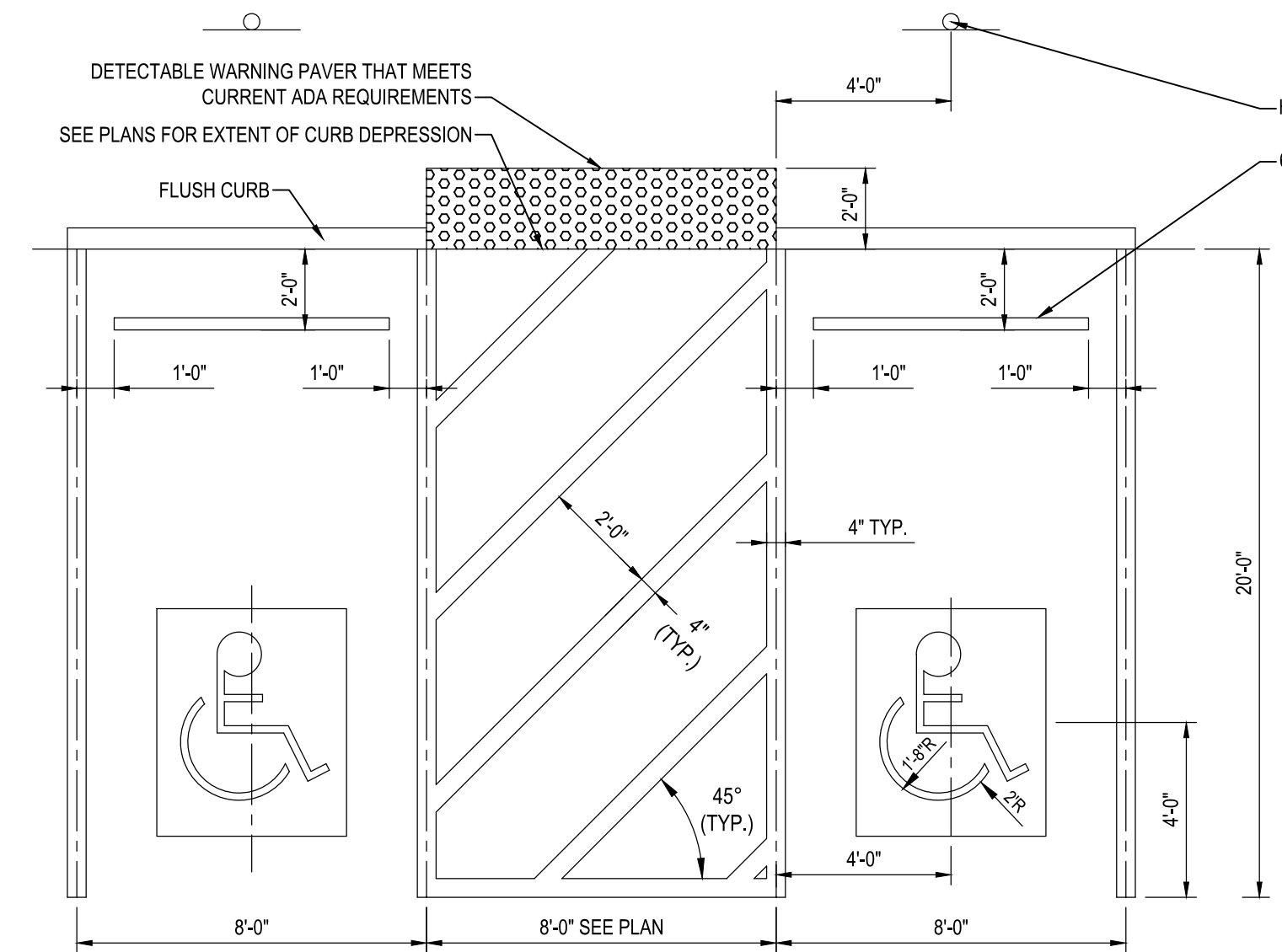
- NOTE:
1. AT CONTRACTION JOINTS, CUT ALTERNATE WIRES CROSSING JOINT.
 2. AT KEYS THICKENED EDGE JOINTS, STOP W.W.F. EACH SIDE OF JOINT.



PLAN

6 4" STANDARD PAVEMENT STRIPING
NOT TO SCALE

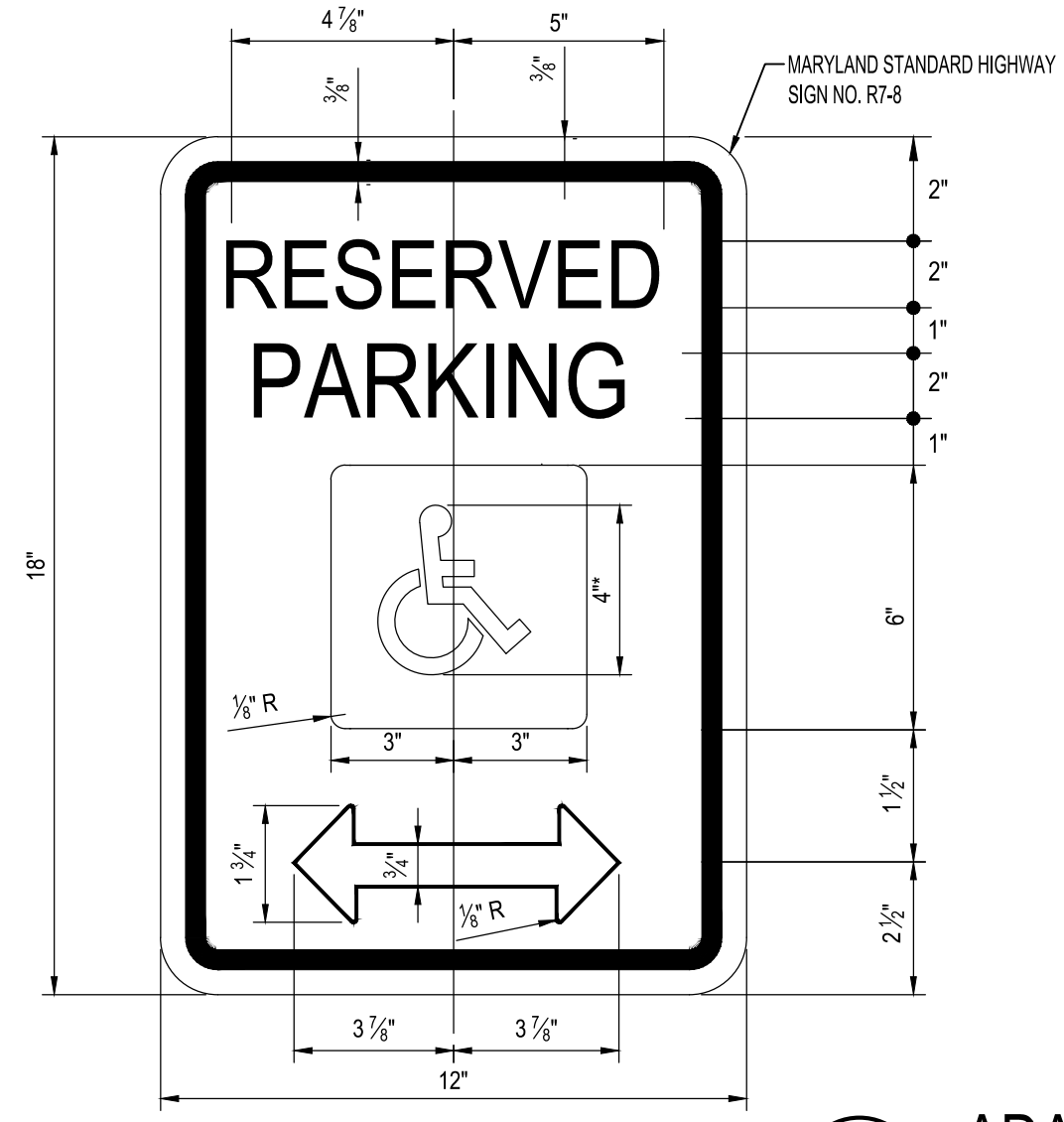
- NOTES:
1. PAINT IS TO BE WHITE TRAFFIC PAINT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (TWO (2) COATS REQUIRED).
 2. DETAIL SHOWS TYPICAL SPACE DIMENSIONS. SEE PLAN FOR SPACE LOCATIONS.



PLAN

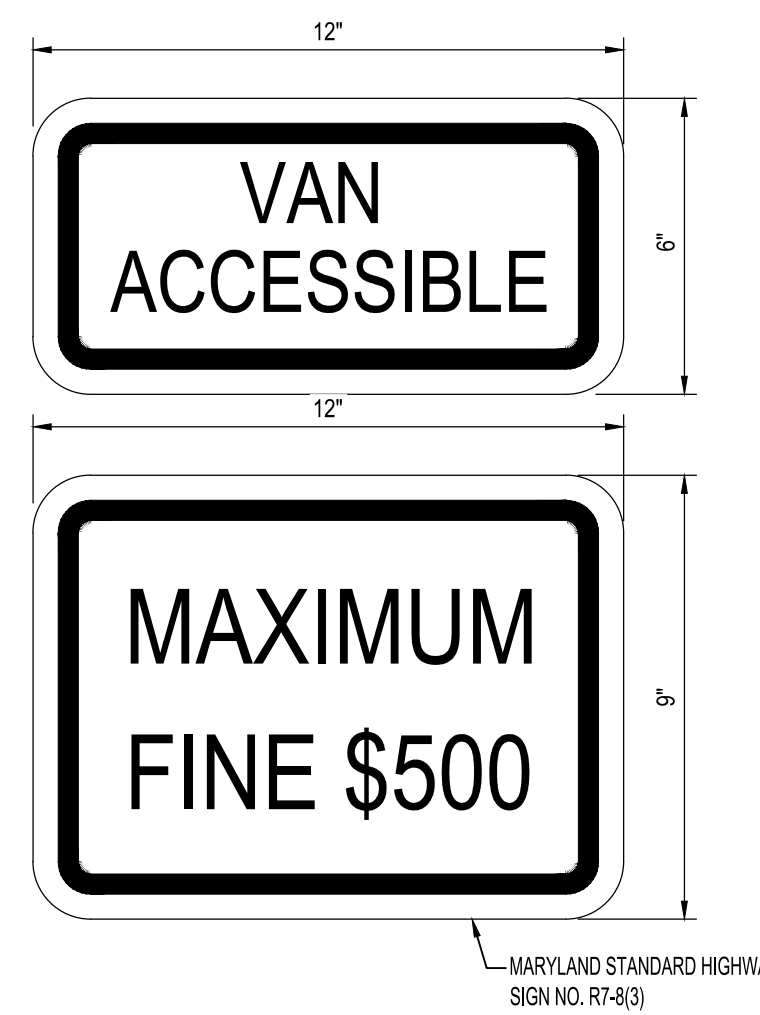
7 ADA ACCESSIBLE PARKING STRIPING
NOT TO SCALE

- NOTES:
1. PAINT TO BE WHITE TRAFFIC PAINT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. TWO (2) COATS REQUIRED.
 2. SEE PLAN TO DETERMINE IF MULTIPLE HANDICAP SPACES ARE REQUIRED.
 3. HANDICAPPED SYMBOL TO BE WHITE TRAFFIC PAINT ON BLUE TRAFFIC PAINT BACKGROUND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. TWO (2) COATS REQUIRED.



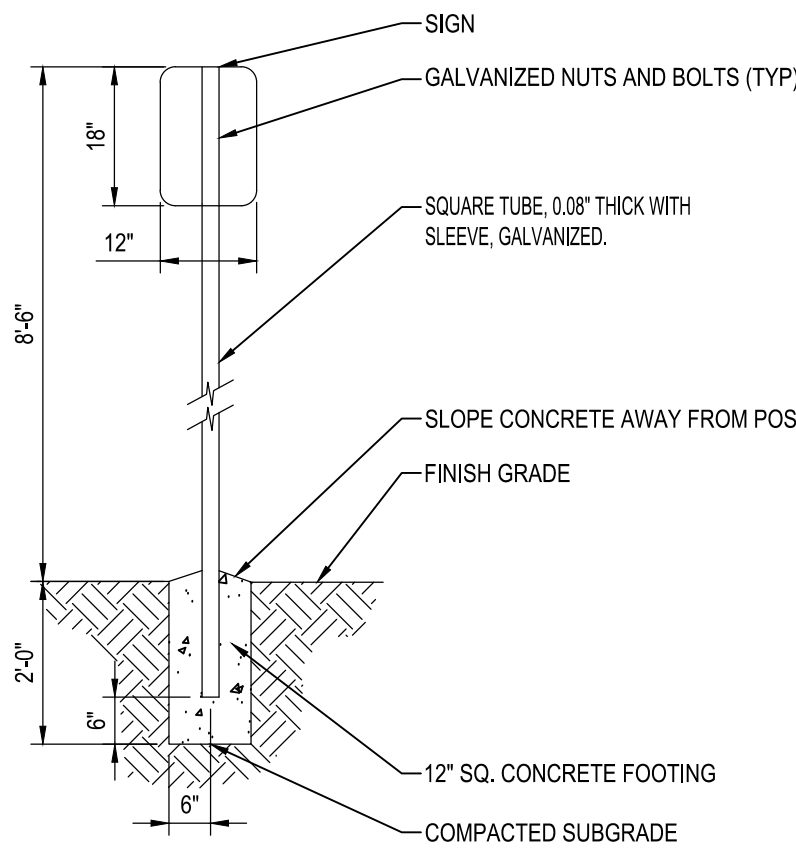
ENLARGEMENT

8 ADA ACCESSIBLE PARKING SIGN
NOT TO SCALE

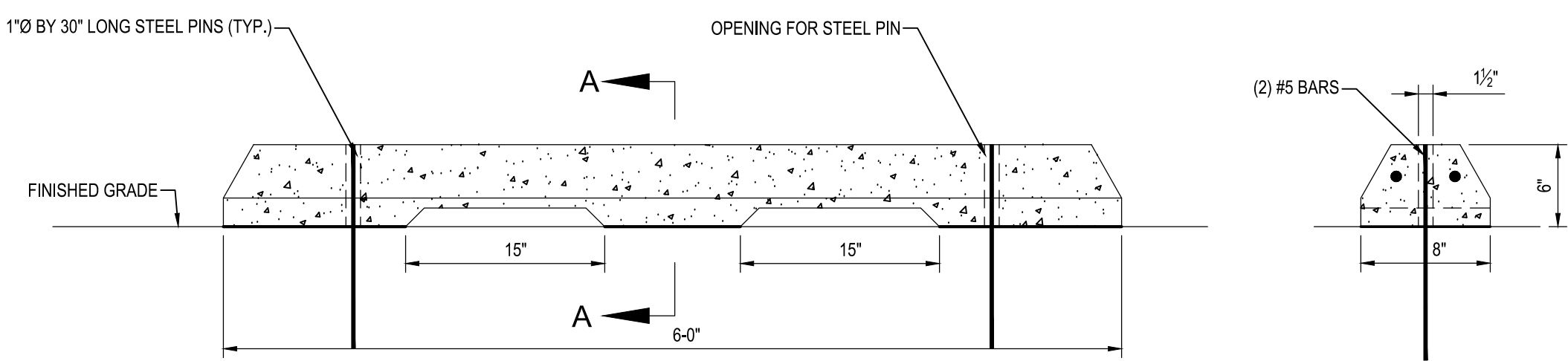


ENLARGEMENT

9 CONCRETE WHEELSTOP
SCALE: 1" = 1'-0"



SECTION



ELEVATION

SECTION A-A

P:_2017\17141805\Drawings\07-Site Details.dwg Nov 07, 2023 - 10:16am Plot By: rsmith

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
A DIVISION OF TRANSYSTEMS

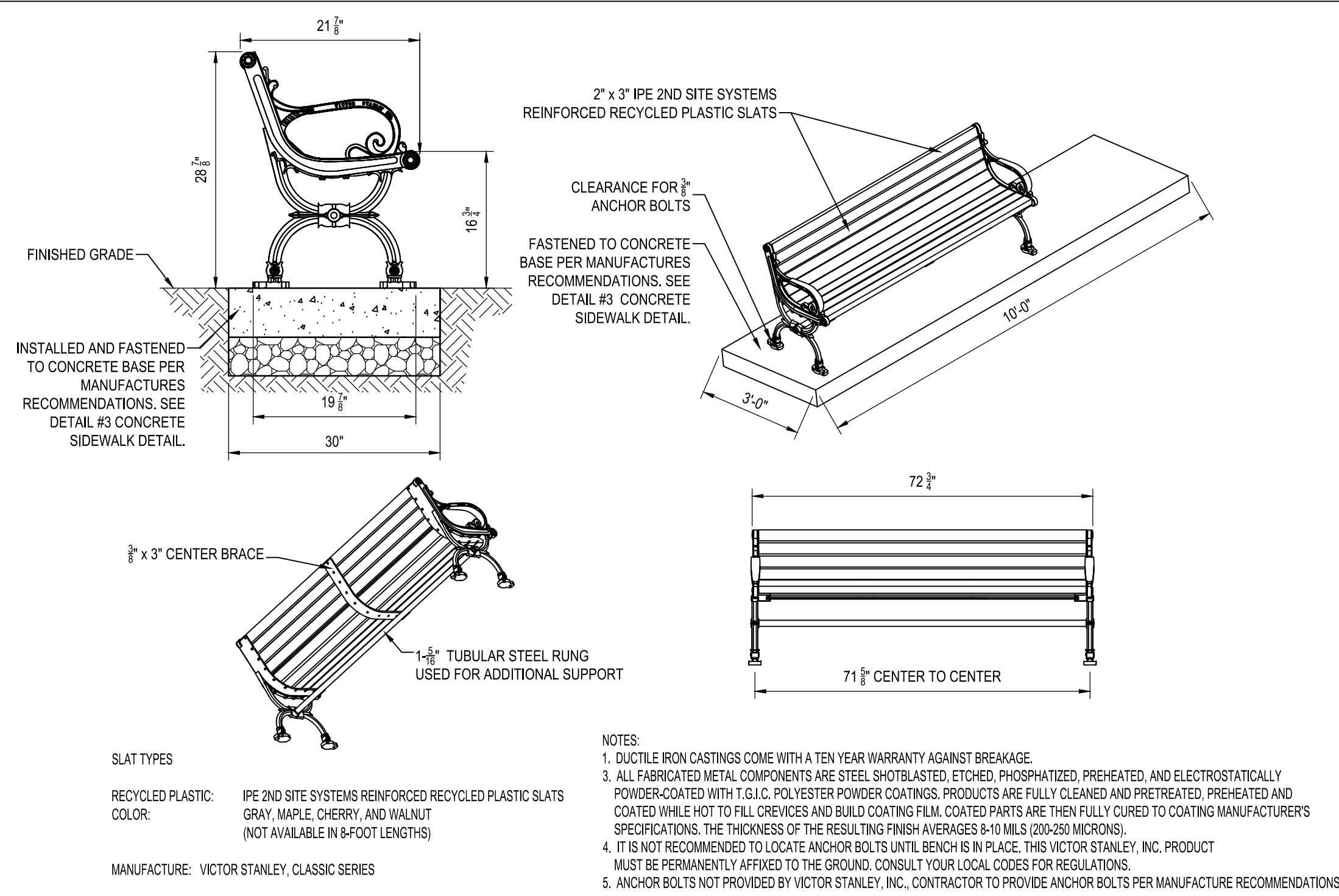
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

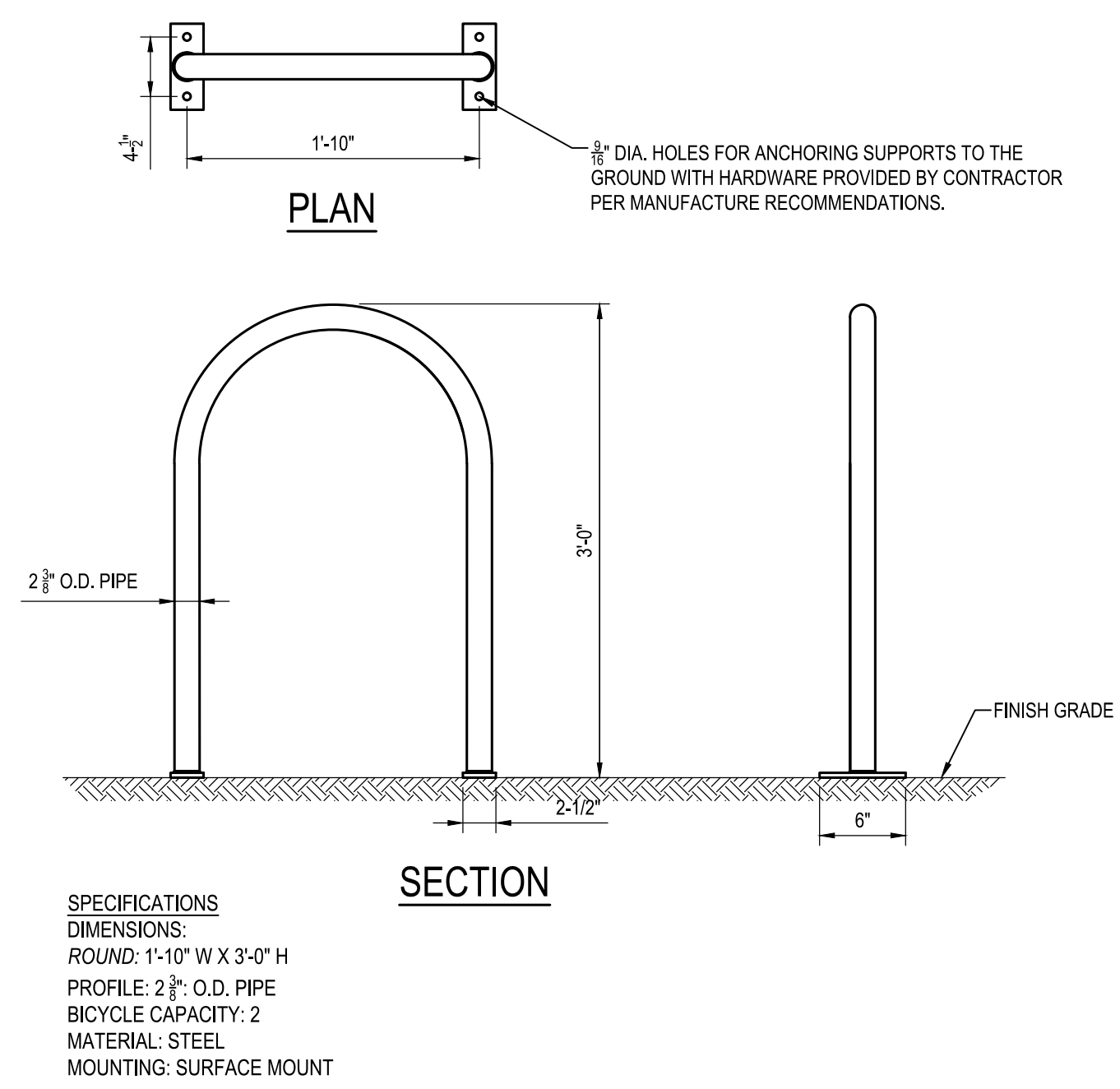
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS SHOWN	DEALE COMMUNITY PARK
CHIEF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.	
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY	SHEET NO. 08 OF 47	
		PROJECT NO.: P582001	SITE DETAILS
		CONTRACT NO.: P582001	

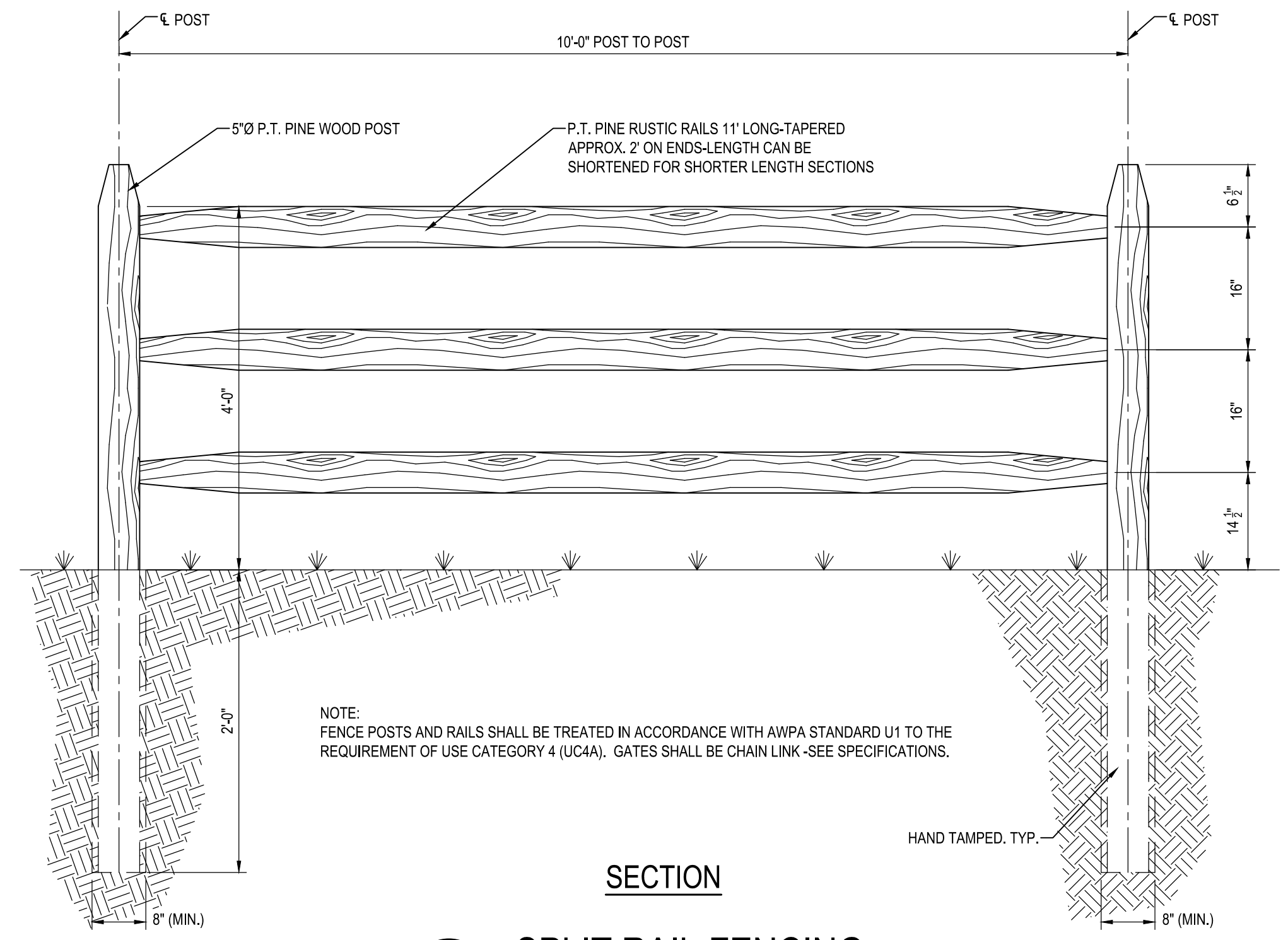
BID SET



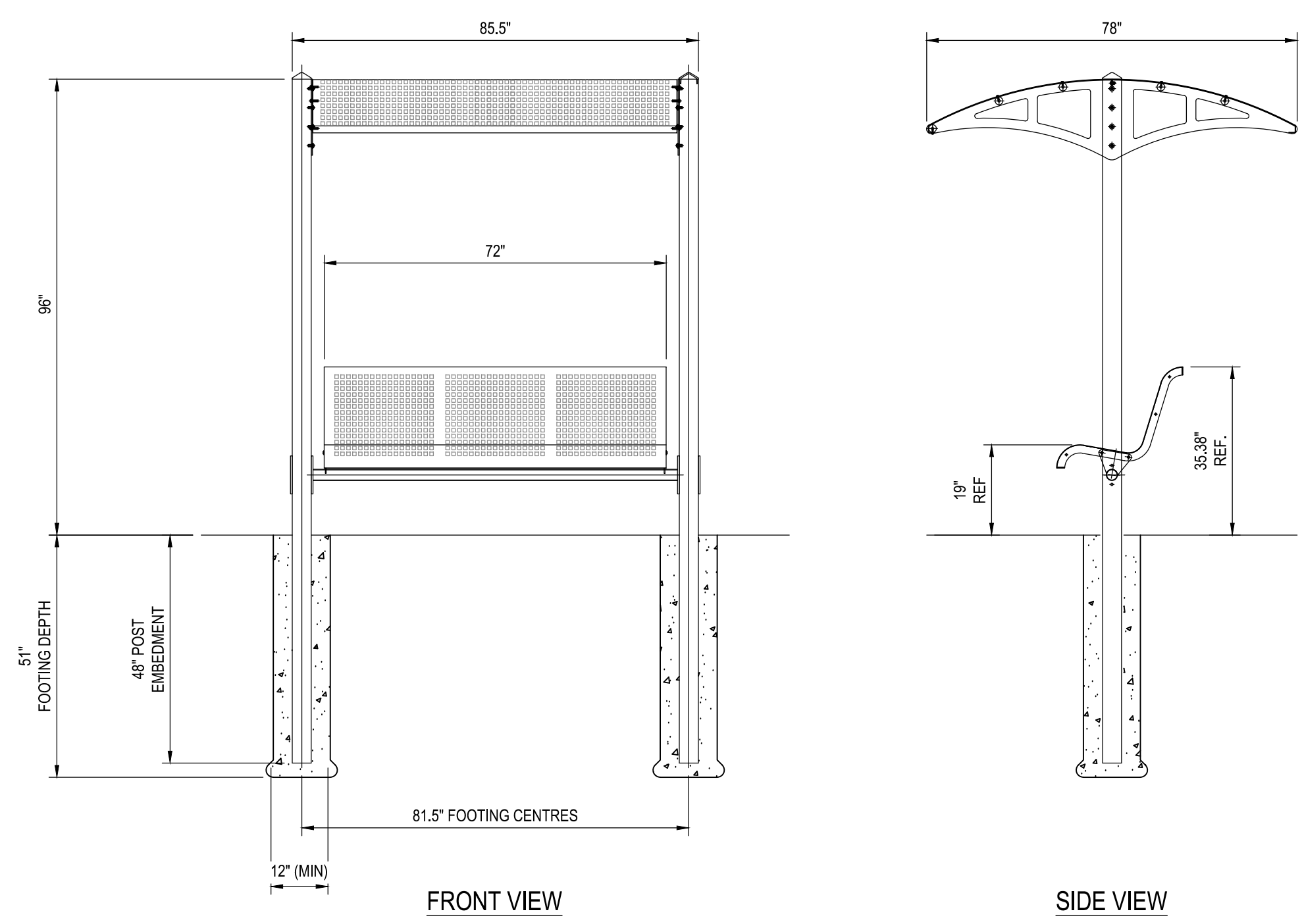
21 PARK BENCH ON CONCRETE PAD
NOT TO SCALE



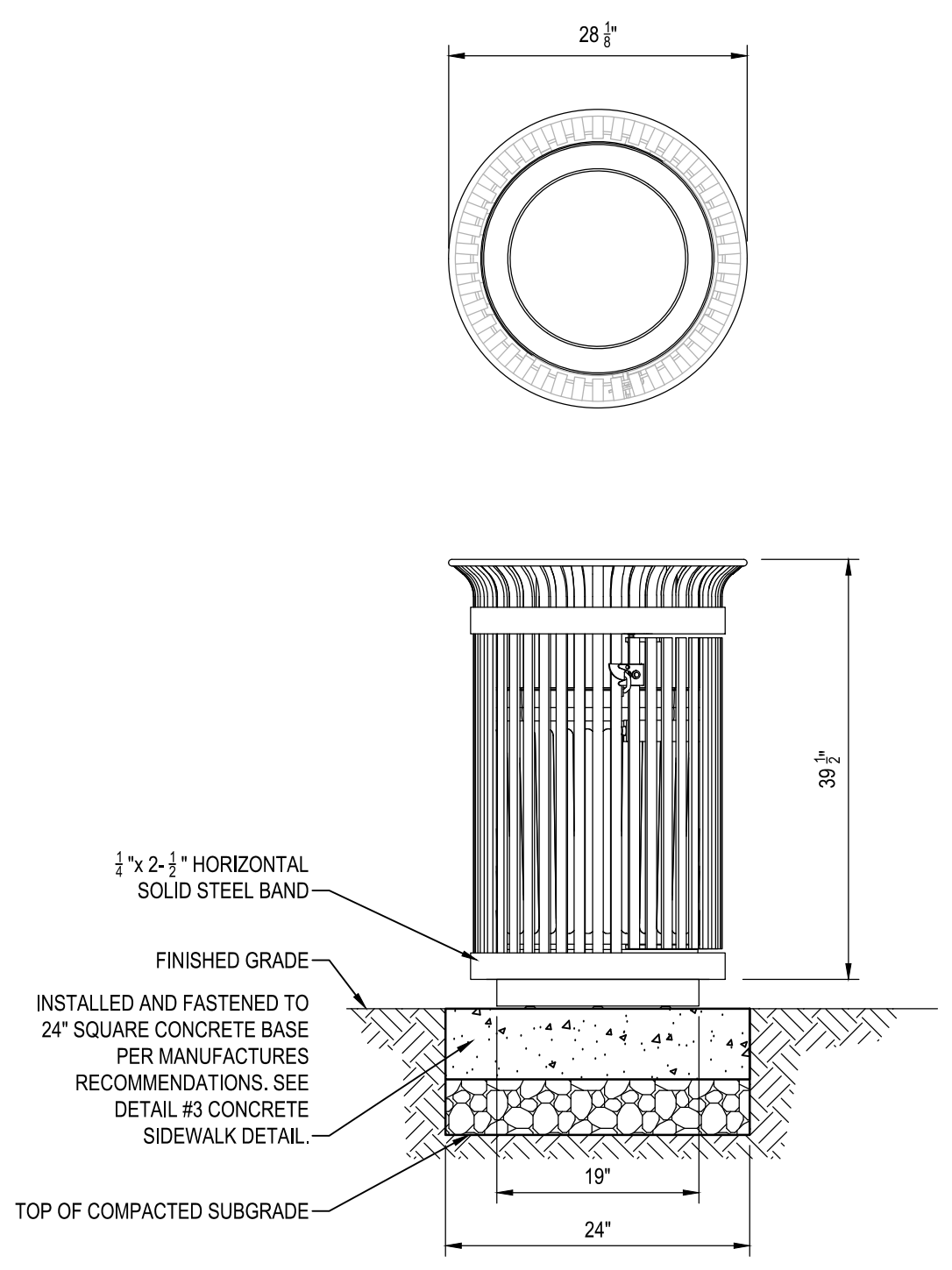
22 BIKE RACK
SCALE: 1" = 1'-0"



23 SPLIT RAIL FENCING
NOT TO SCALE



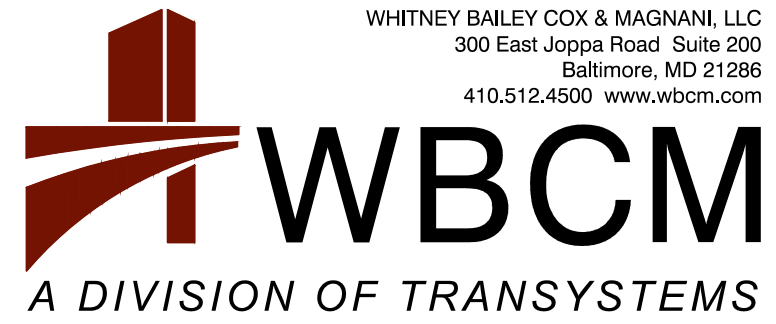
24 SHADE STRUCTURE WITH BENCH
NOT TO SCALE

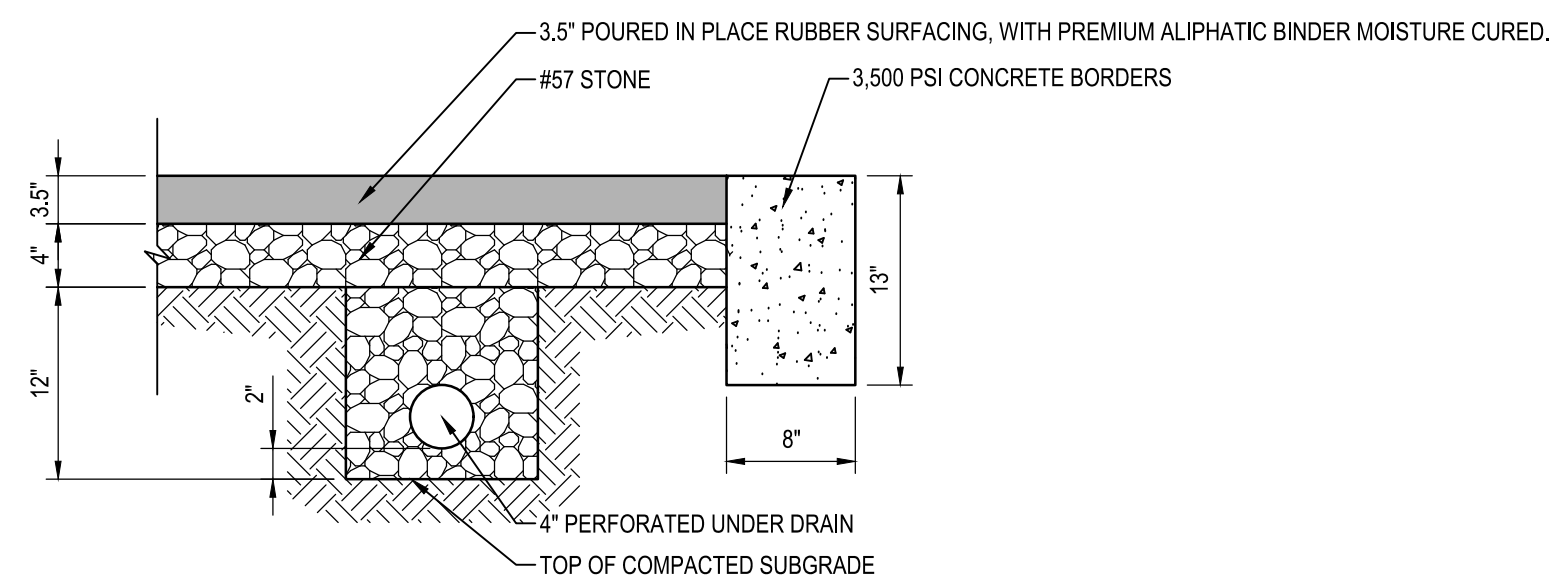


25 TRASH RECEPTACLE
NOT TO SCALE

P:\2017\17141805\Drawings\07-Site\17141805-C203-Site Details.dwg Nov 07, 2023 - 10:21am Plot By: rsmith

BID SET

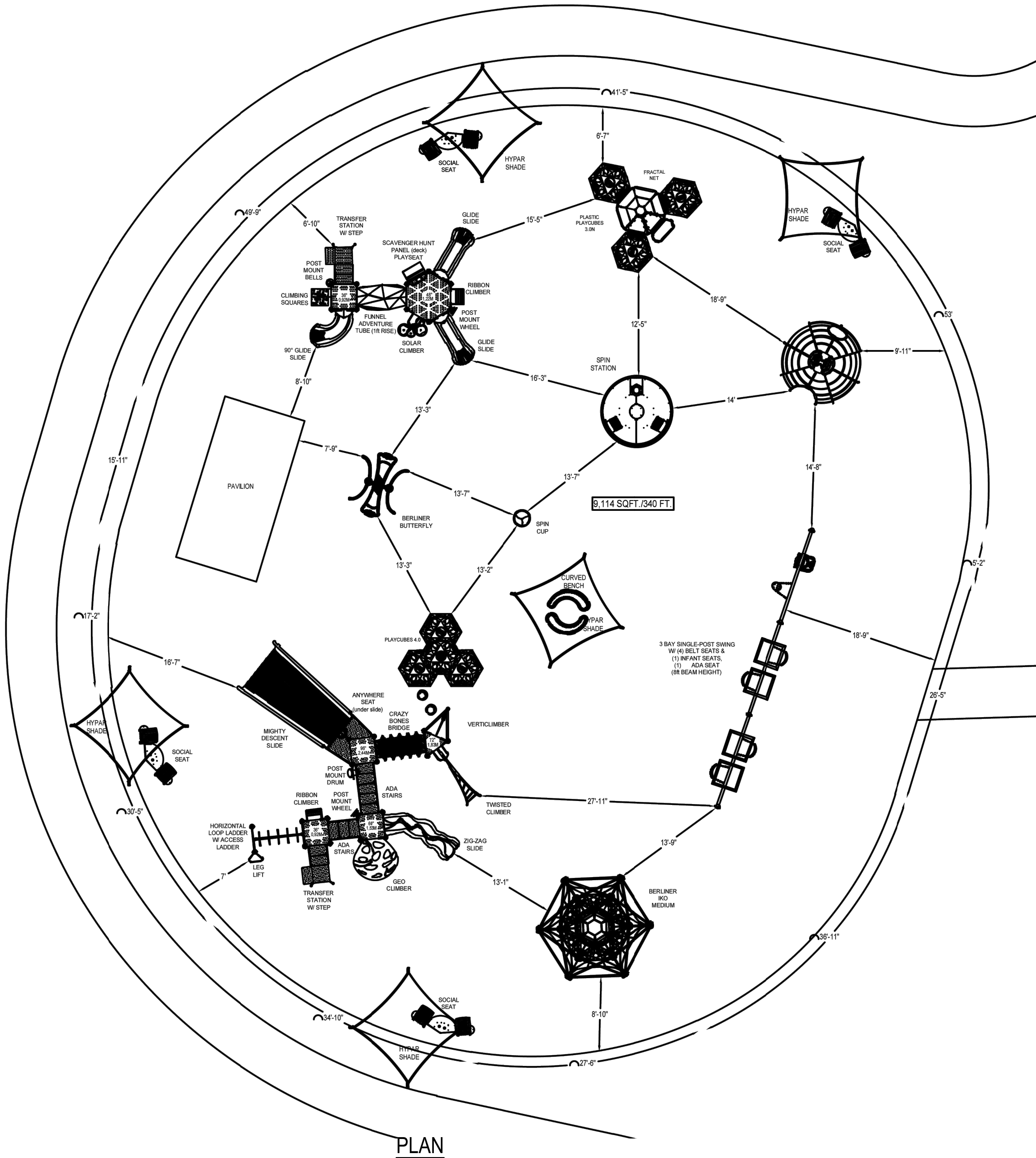
 <p>WHITNEY BAILEY COX & MAGNANI LLC 300 East Joppa Road Suite 200 Baltimore, MD 21286 410.512.4500 www.wbcm.com</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				NO.	DESCRIPTION	BY	DATE																	<p>ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS</p>			
	NO.	DESCRIPTION	BY	DATE																								
<p>I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License #27734 Expiration Date: 07/12/2024</p>	<p>APPROVED _____ DATE _____</p> <p>CHIEF ENGINEER</p>	<p>APPROVED _____ DATE _____</p> <p>PROJECT MANAGER</p>	<p>APPROVED _____ DATE _____</p> <p>ASSISTANT CHIEF ENGINEER</p>	<p>APPROVED _____ DATE _____</p> <p>CHIEF, RIGHT-OF-WAY</p>	<p>SCALE: AS SHOWN</p> <p>DRAWN BY: R.S.S.</p> <p>CHECKED BY: R.W.H.</p> <p>SHEET NO. 11 OF 47</p> <p>PROJECT NO.: P582001</p> <p>CONTRACT NO.: P582001</p>	<p>DEALE COMMUNITY PARK</p> <p>SITE DETAILS</p>																						



SECTION

26 PLAYGROUND UNDERDRAIN DETAIL

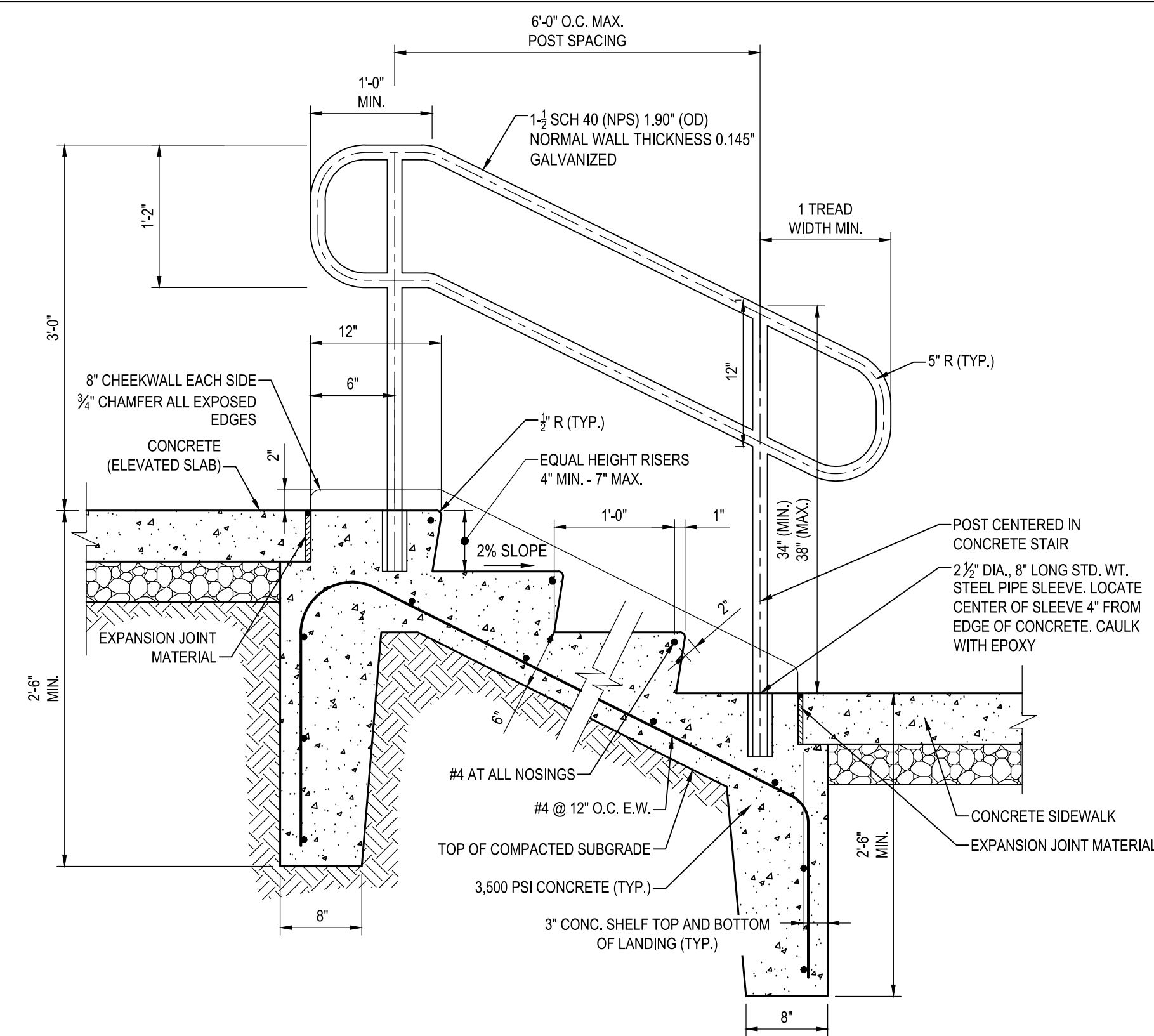
SCALE: 1" = 1'-0"



PLAN

27 PLAYGROUND LAYOUT DETAIL

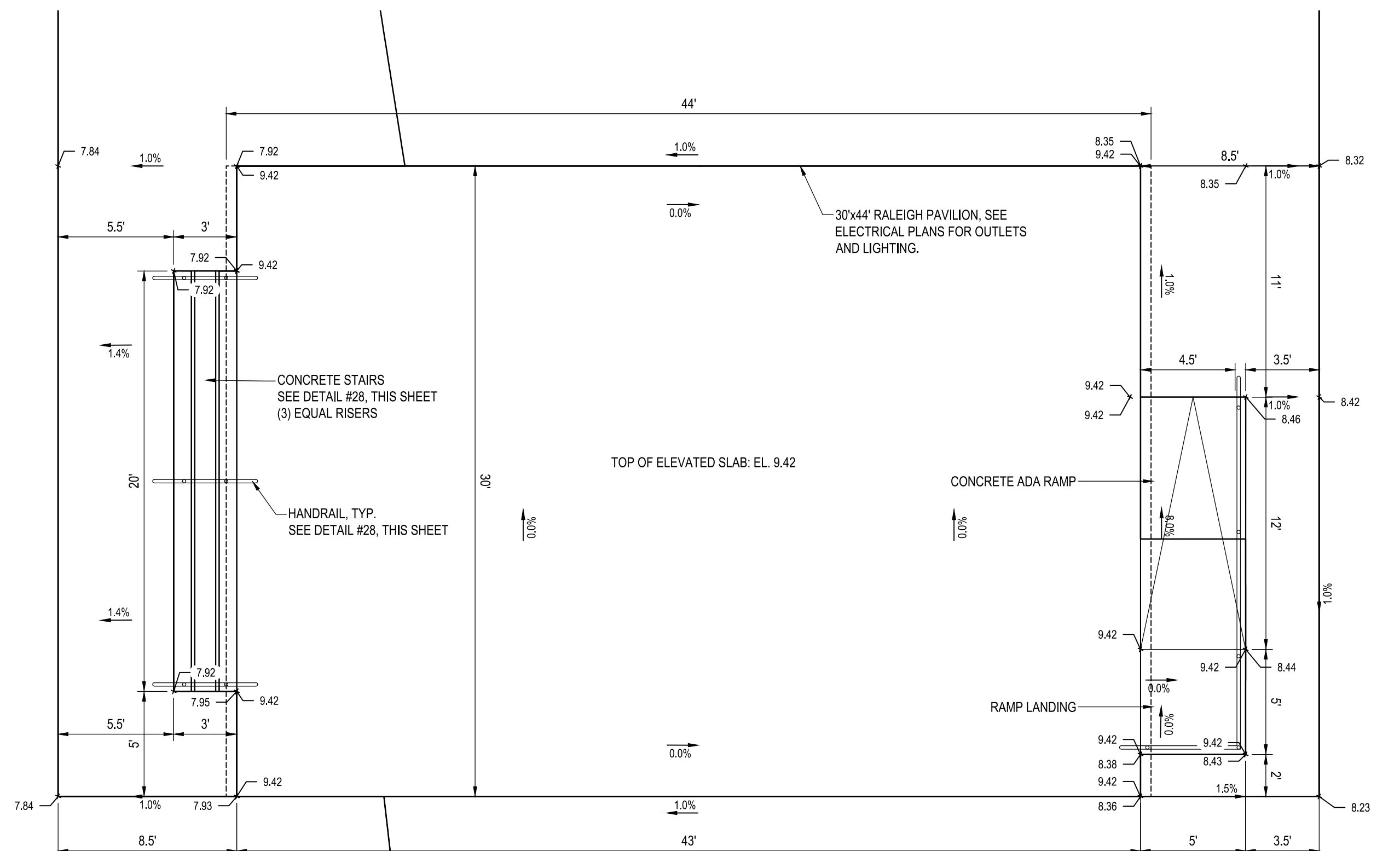
NOT TO SCALE



28 CONCRETE STAIRS WITH HANDRAIL

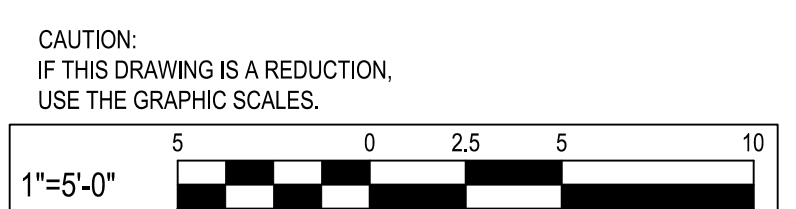
NOT TO SCALE

- NOTES FOR ALL HANDRAILS:
1. ALL POSTS SHALL BE SCH. 80 STEEL. ALL RAILS SHALL BE SCH. 40 STEEL.
 2. HANDRAILS, POSTS, AND FASTENERS TO BE GALVANIZED AND SHALL CONFORM TO A.S.T.M. DESIGNATION A-441, A 123/A 123M, A 153/A 153M. GALVANIZED HANDRAILS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
 3. HANDRAILS SHALL BE WELDED WITH ALL JOINTS GROUND SMOOTH AND FREE OF BURRS.
 4. WITHIN EACH 20 LINEAR FEET OF HANDRAIL, PROVIDE FOR 1/4" EXPANSION.
 5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW INDICATING LAYOUT, MATERIALS AND CONNECTIONS.
 6. HANDRAIL POSTS SHALL BE INSTALLED IN CORE DRILLED HOLES 8" DEPTH, A MINIMUM 3/4" DIA. LARGER THAN O.D. OF POST WHICH ARE FILLED WITH NON-SHRINK GROUT. GROUT SHALL BE NON-SHRINK, NON-METALLIC TYPE CONFORMING TO ASTM-C1107. GROUT SHALL BE BROUGHT TO 1/8" ABOVE FINISHED GRADE AND SLOPED TO DIRECT WATER AWAY FROM THE POST. GROUT SHALL BE INSTALLED PER MANUFACTURE'S RECOMMENDATIONS AND REFERENCED ASTM REQUIREMENTS.
 7. COMPLY WITH MAAMM'S "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS" FOR RECOMMENDATIONS FOR APPLYING AND DESIGNATING FINISHES.



29 ELEVATED SLAB DETAIL

SCALE: 1" = 5'



CAUTION: IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.

BID SET



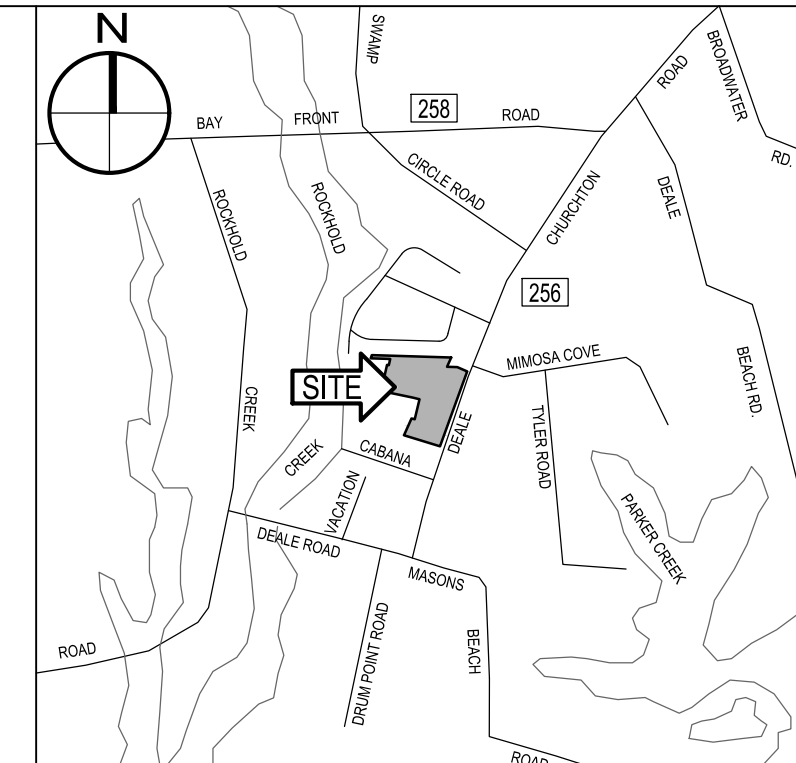
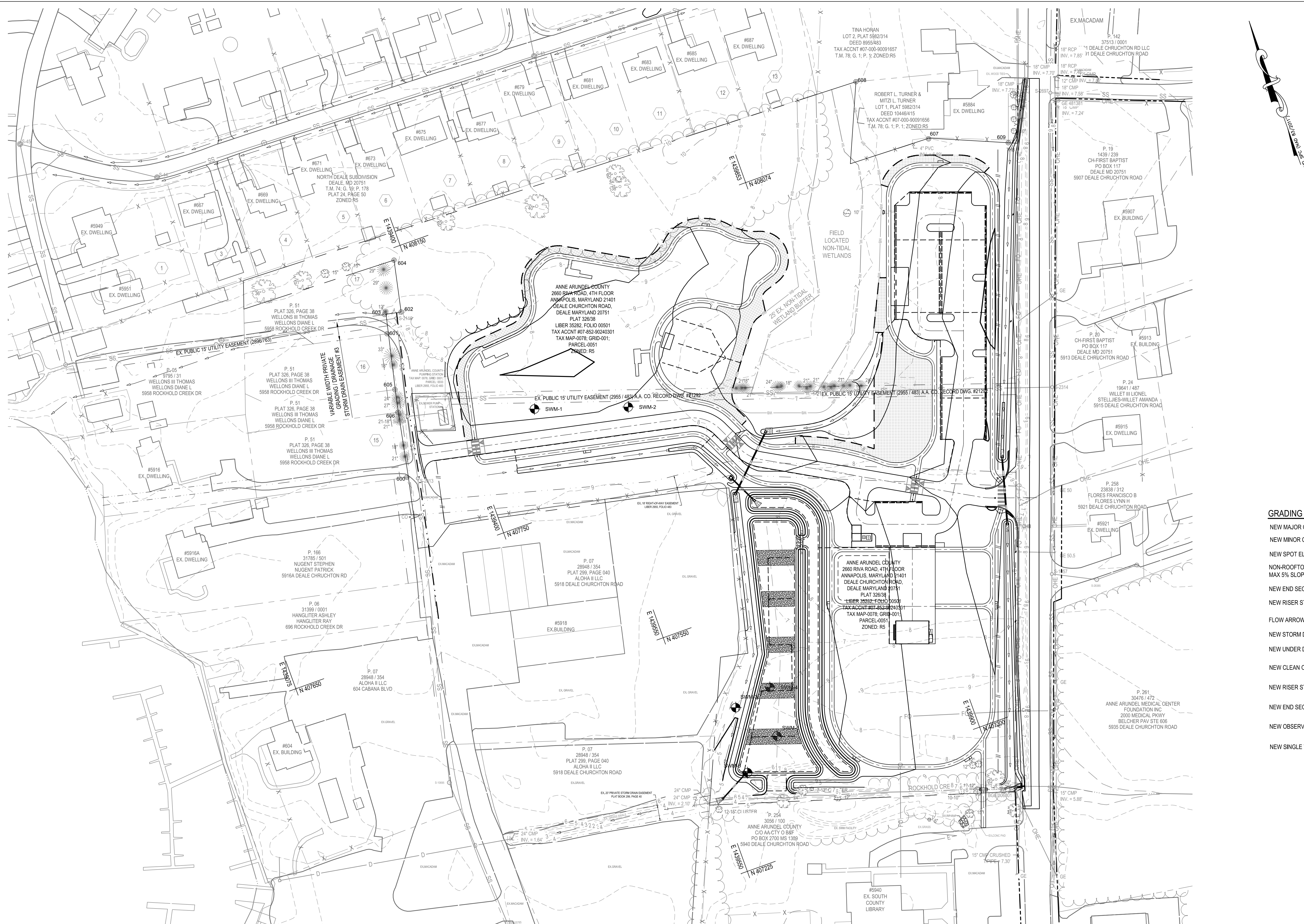
WHITNEY BAILEY COX & MAGNANI LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE:	AS SHOWN	DEALE COMMUNITY PARK	
DRAWN BY:	R.S.S.		
CHECKED BY:	R.W.H.		
SHEET NO.	12 OF 47		
PROJECT NO.:	P582001		
CONTRACT NO.:	P582001		
SITE DETAILS			

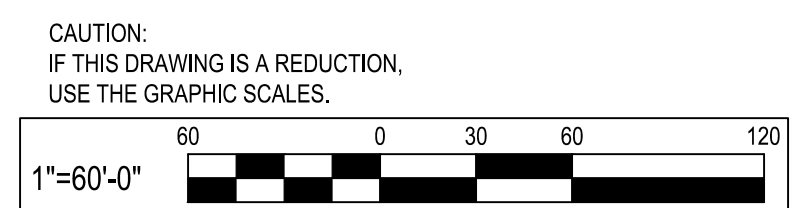
P:\2017\17141805\Drawings\07-Site\17141805-C203-Site Details.dwg Nov 07, 2023 10:22am Plot By: rsmith



GRADING LEGEND

- NEW MAJOR CONTOUR
- NEW MINOR CONTOUR
- NEW SPOT ELEVATION
- NON-ROOFTOP DISCONN. MAX 5% SLOPE
- NEW END SECTION
- NEW RISER STRUCTURE
- FLOW ARROW
- NEW STORM DRAIN
- NEW UNDER DRAIN
- NEW CLEAN OUT
- NEW RISER STRUCTURE
- NEW END SECTION
- NEW OBSERVATION WELL
- NEW SINGLE TYPE Y INLET

BID SET



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
A DIVISION OF TRANSYSTEMS

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #22734 Expiration Date: 07/12/2024

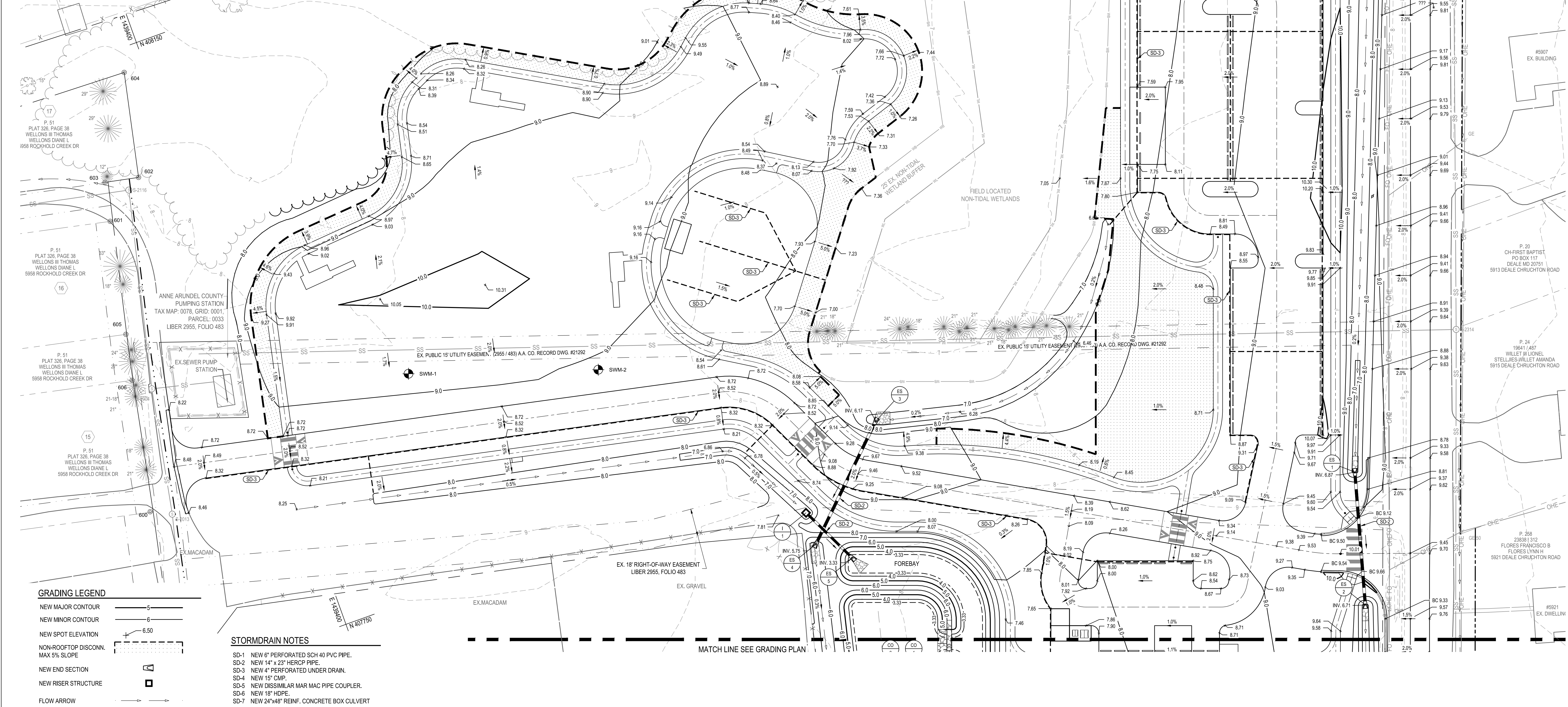
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

SCALE: 1" = 60'	DEALE COMMUNITY PARK
DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.	
SHEET NO. 13 OF 47	
PROJECT NO.: P582001	OVERALL GRADING PLAN
CONTRACT NO.: P582001	

STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
ES-1	END SECTION	INV OUT 6.87	N 407621.66	E 1440047.22	8.73
ES-2	END SECTION	INV IN 6.70	N 407538.56	E 1440024.42	8.55
ES-3	END SECTION	INV OUT 6.17	N 407756.87	E 1439786.34	7.98
ES-4	END SECTION	INV IN 5.74	N 407696.15	E 1439703.75	7.54
ES-5	END SECTION	INV IN 3.33	N 407681.40	E 1439721.73	5.19
ES-6	END SECTION	INV IN 2.78	N 407324.99	E 1439551.84	4.39
HW-1	STANDARD TYPE 'H' ENDWALL STD. NO. MD 382.01	INV IN 5.80	N 407208.30	E 1439924.94	7.74
I-1	SINGLE WR INLET MD 374.06	INV OUT 3.53	N 407717.09	E 1439704.34	6.53
RS-1	SINGLE WR INLET MD 374.06	INV IN 3.00 INV OUT 3.00	N 407347.23	E 1439590.09	8.00

SUBDIVISION
DEALE, MD 20751
T.M. 74, G. 19, P. 178
PLAT 24, PAGE 50
ZONED RS



GRADING LEGEND

- NEW MAJOR CONTOUR
- NEW MINOR CONTOUR
- NEW SPOT ELEVATION
- NON-ROOFTOP DISCONN. MAX 5% SLOPE
- NEW END SECTION
- NEW RISER STRUCTURE
- FLOW ARROW
- NEW STORM DRAIN
- NEW UNDER DRAIN
- NEW CLEAN OUT
- NEW RISER STRUCTURE
- NEW END SECTION
- NEW OBSERVATION WELL
- NEW SINGLE TYPE Y INLET

STORMDRAIN NOTES

- SD-1 NEW 6" PERFORATED SCH 40 PVC PIPE.
- SD-2 NEW 14" x 23" HERCOP PIPE.
- SD-3 NEW 4" PERFORATED UNDER DRAIN.
- SD-4 NEW 15" CMP.
- SD-5 NEW DISSIMILAR MAR MAC PIPE COUPLER.
- SD-6 NEW 18" HDPE.
- SD-7 NEW 24"x48" REINF. CONCRETE BOX CULVERT

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

1"=30'-0"

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
A DIVISION OF TRANSYSTEMS

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	

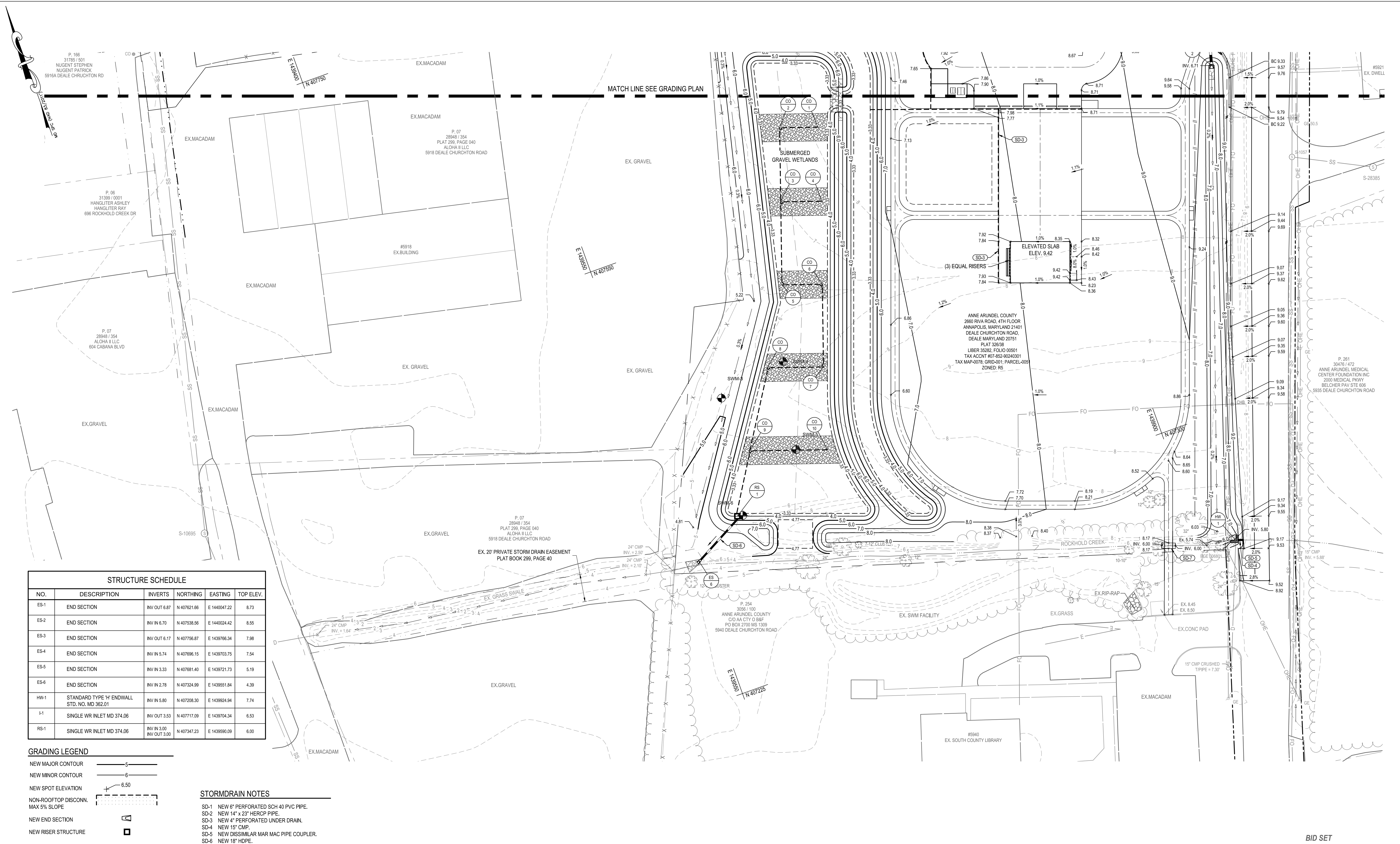
SCALE: 1" = 30'
DRAWN BY: R.S.S.
CHECKED BY: R.W.H.
SHEET NO. 14 OF 47
PROJECT NO.: P582001
CONTRACT NO.: P582001

DEALE COMMUNITY PARK

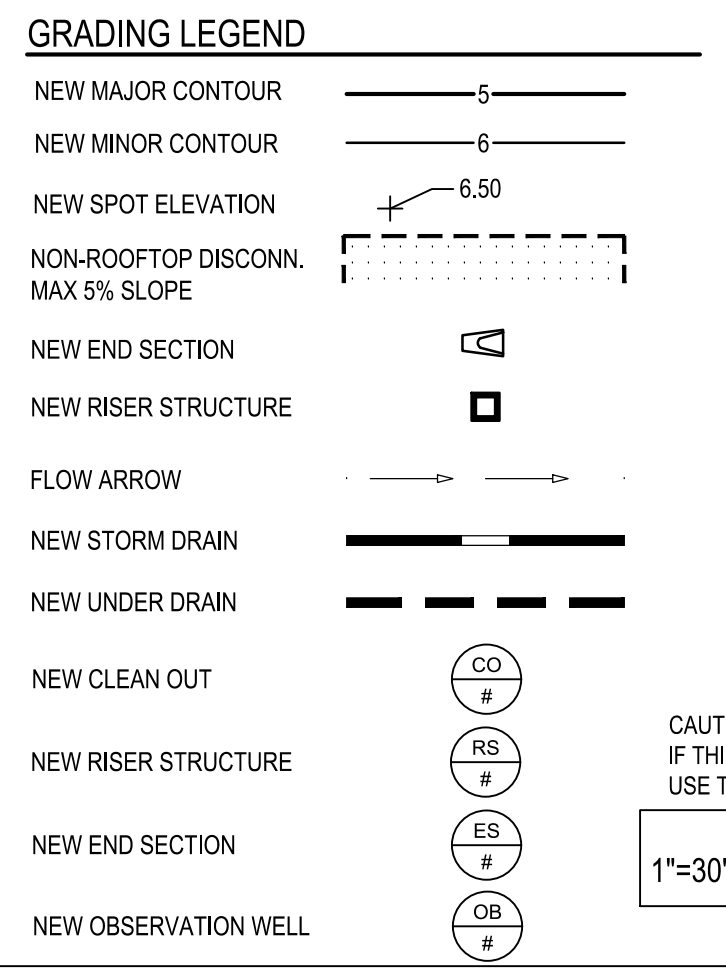
GRADING PLAN

P:\2017\17141805\Drawings\07-Site\17141805-C301-Grading Plan.dwg Nov 07, 2023 10:26am Plot By: rsmith

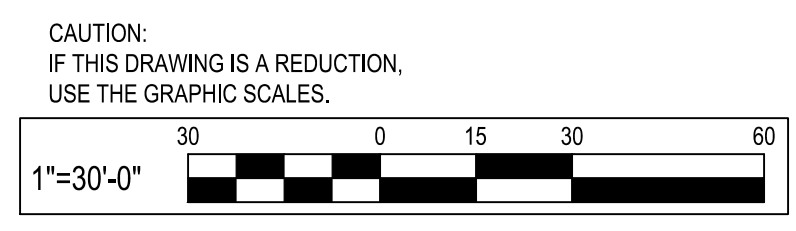
P:\2017\17141805\Drawings\07-Site\17141805-C301-Grading_Plan.dwg Nov 07, 2023 10:29am Plot By: rmlth



STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
ES-1	END SECTION	INV OUT 6.87	N 407621.66	E 1440047.22	8.73
ES-2	END SECTION	INV IN 6.70	N 407538.56	E 1440024.42	8.55
ES-3	END SECTION	INV OUT 6.17	N 407756.87	E 1439796.34	7.98
ES-4	END SECTION	INV IN 5.74	N 407696.15	E 1439703.75	7.54
ES-5	END SECTION	INV IN 3.33	N 407681.40	E 1439721.73	5.19
ES-6	END SECTION	INV IN 2.78	N 407324.99	E 1439551.84	4.39
HW-1	STANDARD TYPE 'H' ENDWALL STD. NO. MD 362.01	INV IN 5.80	N 407208.30	E 1439924.94	7.74
I-1	SINGLE WR INLET MD 374.06	INV OUT 3.53	N 407717.09	E 1439704.34	6.53
RS-1	SINGLE WR INLET MD 374.06	INV IN 3.00 INV OUT 3.00	N 407347.23	E 1439590.09	6.00



- STORMDRAIN NOTES**
- SD-1 NEW 6" PERFORATED SCH 40 PVC PIPE.
 - SD-2 NEW 14" x 23" HERCP PIPE.
 - SD-3 NEW 4" PERFORATED UNDER DRAIN.
 - SD-4 NEW 15" CMP.
 - SD-5 NEW DISSIMILAR MAR MAC PIPE COUPLER.
 - SD-6 NEW 18" HDPE.
 - SD-7 NEW 24"x48" REINF. CONCRETE BOX CULVERT



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
A DIVISION OF TRANSYSTEMS

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

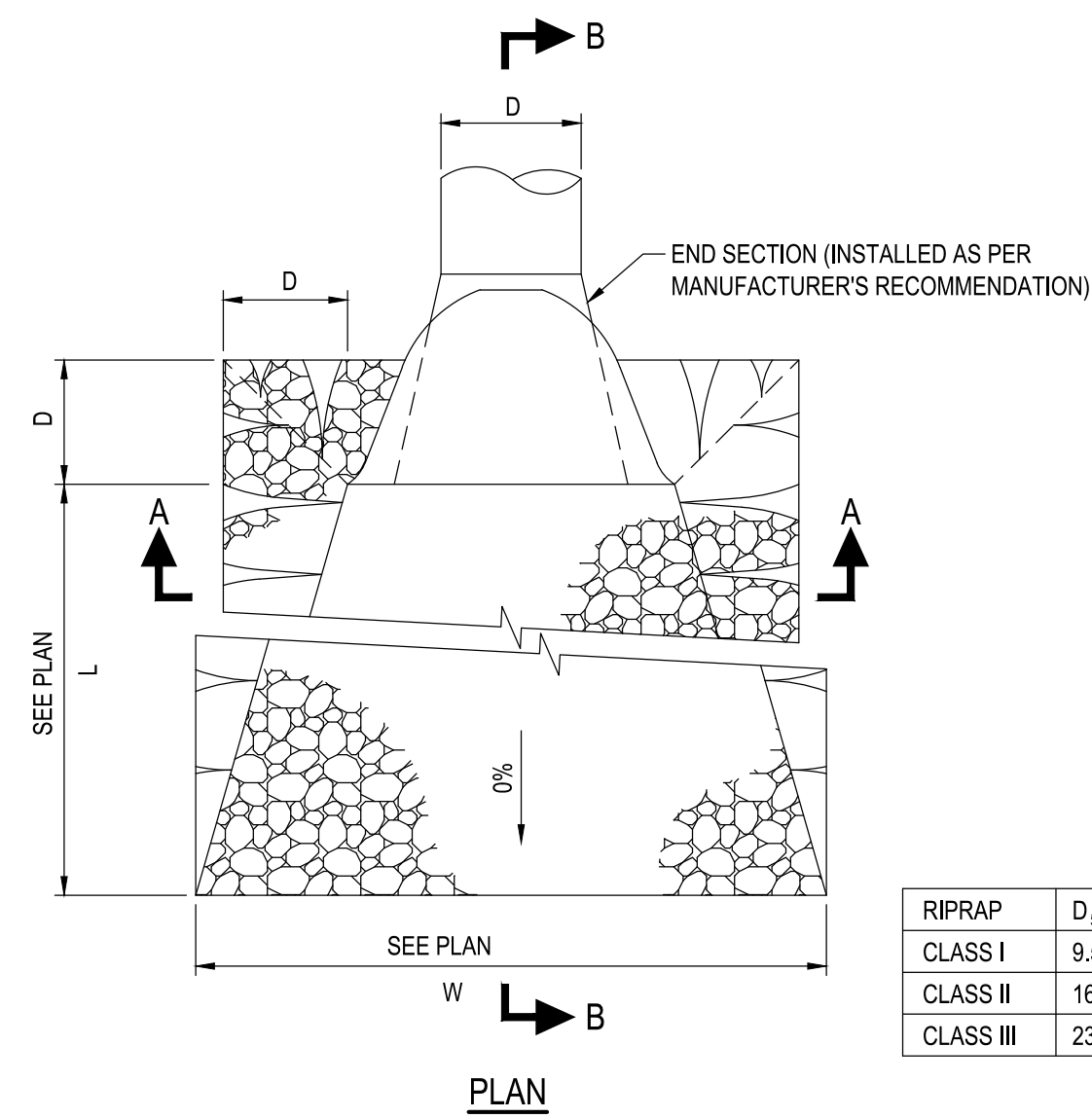
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 30'
CHIEF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY	SHEET NO. 15 OF 47
		PROJECT NO.: P582001
		CONTRACT NO.: P582001

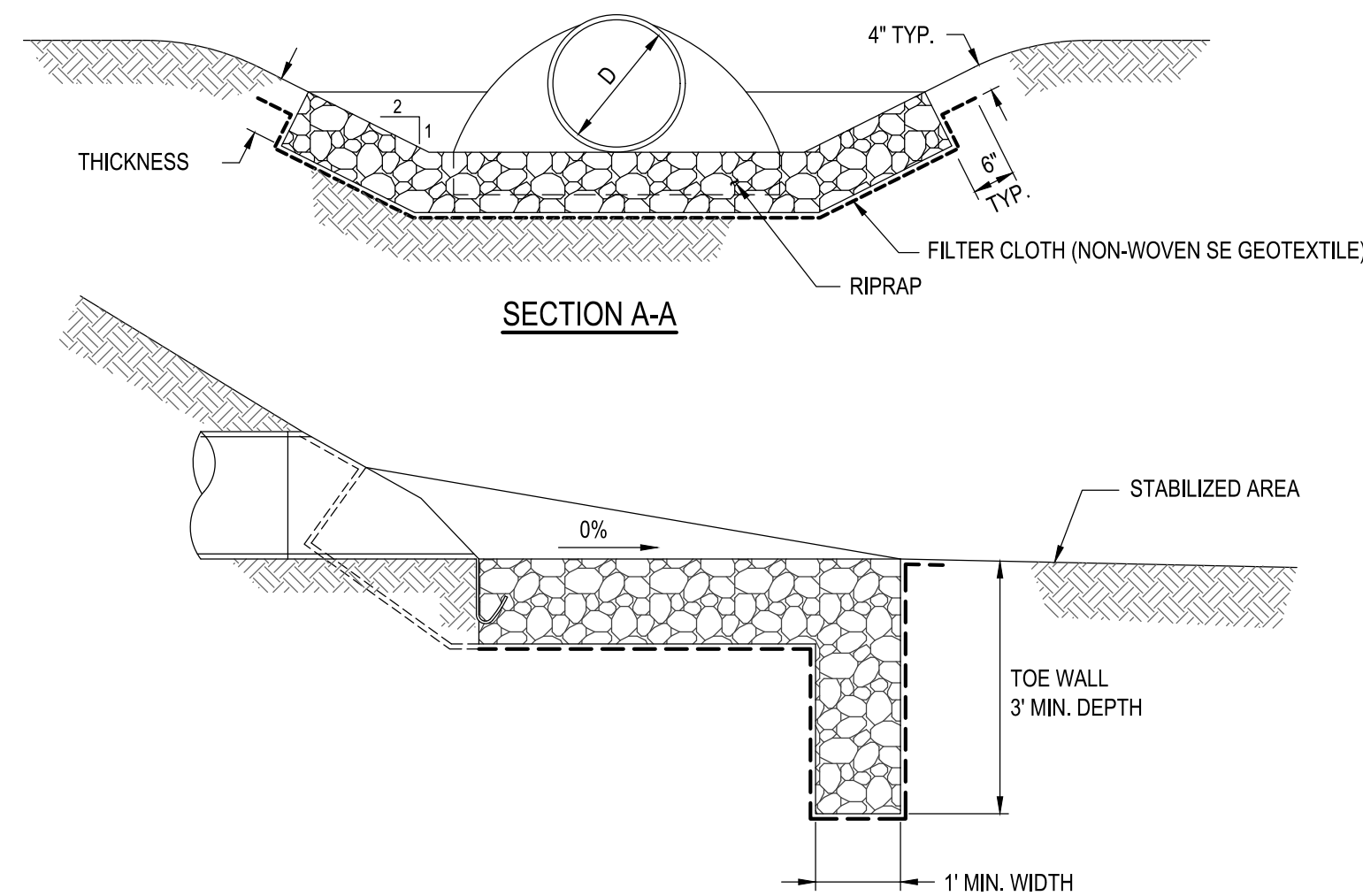
DEALE COMMUNITY PARK

GRADING PLAN

BID SET



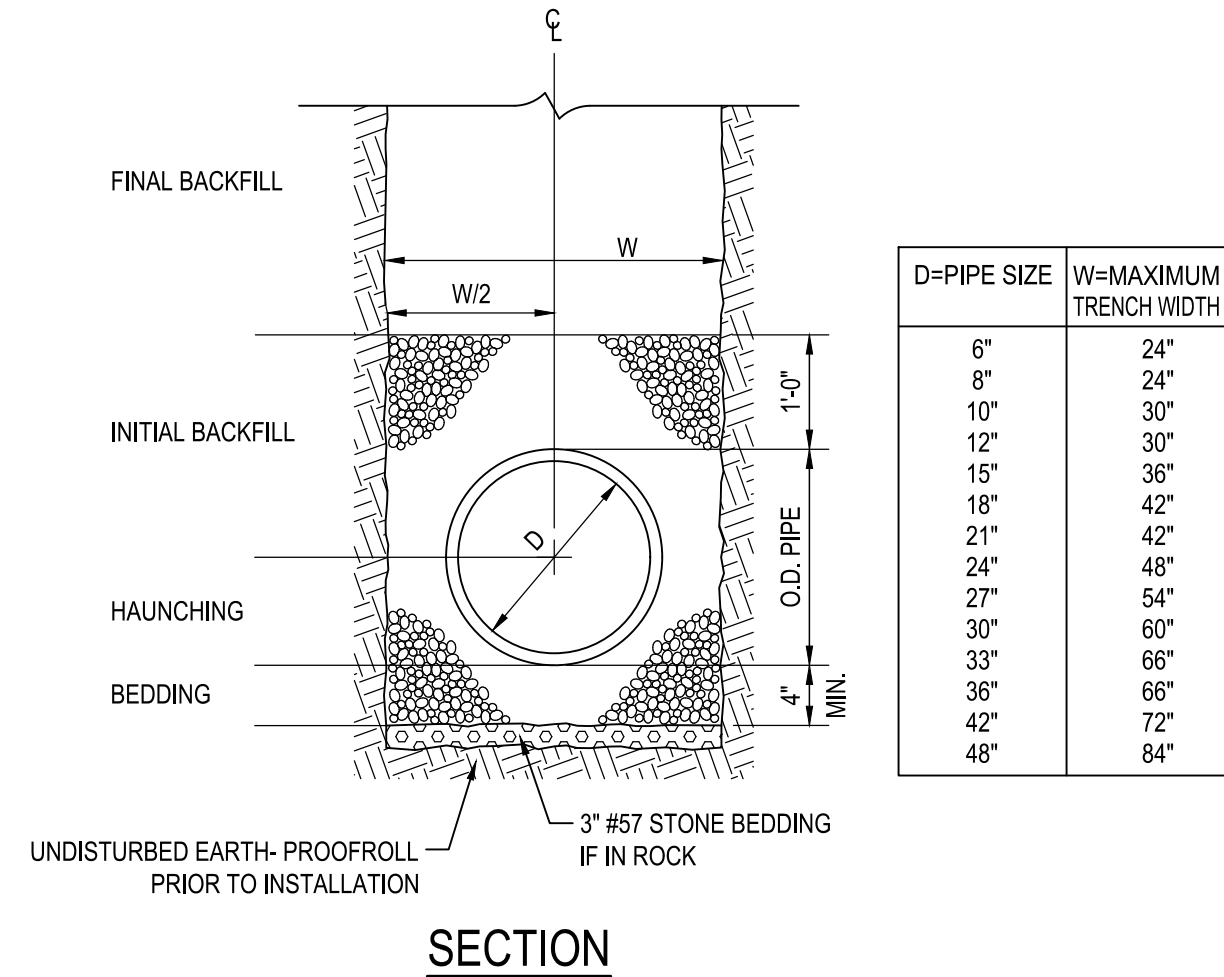
RIPRAP CLASS	D ₅₀	D ₁₀₀	THICKNESS
CLASS I	9.5"	15"	19"
CLASS II	16"	24"	32"
CLASS III	23"	34"	46"



SECTION B-B
CONSTRUCTION SPECIFICATIONS

- THE SUBGRADE FOR THE FILTER, RIPRAP OR GABION SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
- FILTER CLOTH SHALL BE PROTECTED FROM PUNCHING, CUTTING OR TEARING. ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF CLOTH OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE CLOTH. ALL OVERLAPS WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF CLOTH SHALL BE A MINIMUM OF ONE FOOT.
- STONE FOR THE RIPRAP OR GABION OUTLETS MAY BE PLACED BY EQUIPMENT. BOTH SHALL BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE STONE FOR RIPRAP OR GABION OUTLETS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THAT IT IS REASONABLY HOMOGENOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. RIPRAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR FILTER CLOTH. HAND PLACEMENT WILL BE REQUIRED TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.

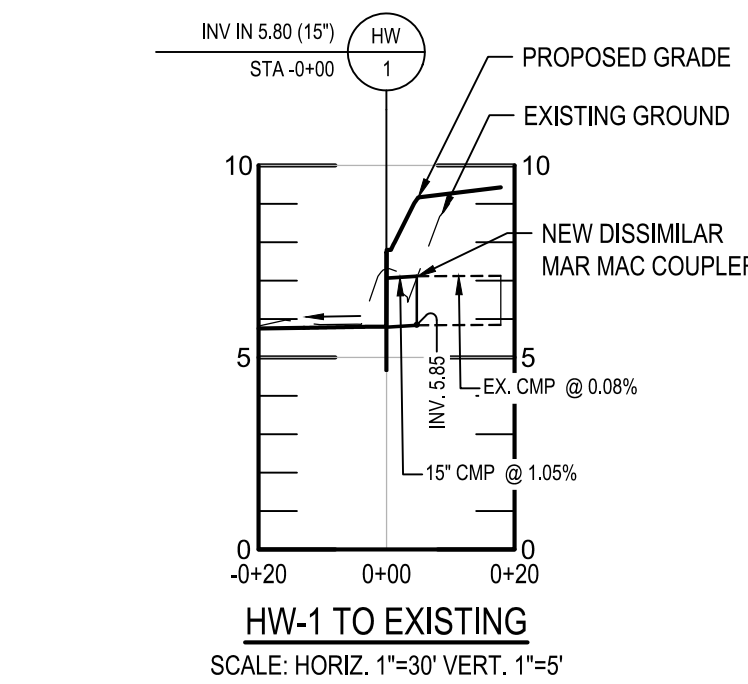
1 RIP-RAP OUTFALL DETAIL
NOT TO SCALE



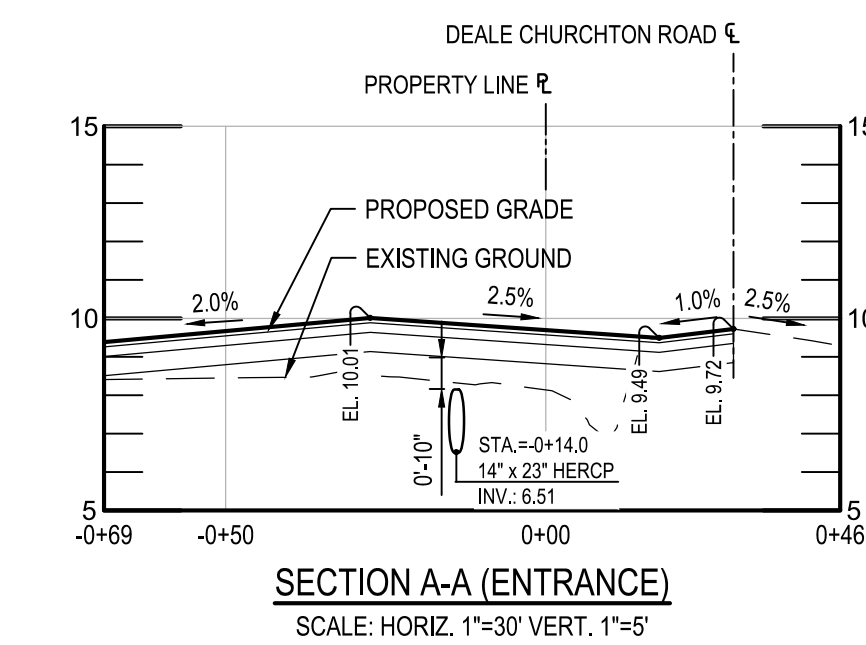
MATERIAL NOTES (UNLESS OTHERWISE SPECIFIED):

- BEDDING:** NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940/D 2940M, EXCEPT WITH 100 PERCENT PASSING A 1-INCH (25-MM) SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 (0.075-MM) SIEVE. COMPACT TO 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
- HAUNCHING:** NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940/D 2940M, EXCEPT WITH 100 PERCENT PASSING A 1-INCH (25-MM) SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 (0.075-MM) SIEVE. COMPACT TO 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
- INITIAL BACKFILL:** NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940/D 2940M, WITH AT LEAST 90 PERCENT PASSING A 1-1/2-INCH (37.5-MM) SIEVE AND NOT MORE THAN 12 PERCENT PASSING A NO. 200 (0.075-MM) SIEVE. CAREFULLY COMPACT INITIAL BACKFILL UNDER PIPE HAUNCHES AND COMPACT EVENLY UP ON BOTH SIDES AND ALONG THE FULL LENGTH OF PIPING OR CONDUIT TO AVOID DAMAGE OR DISPLACEMENT OF PIPING OR CONDUIT. COORDINATE BACKFILLING WITH UTILITIES TESTING.
- FINAL BACKFILL:** EXCAVATED SOILS MEETING THE PROJECT SPECIFIC REQUIREMENTS FOR SATISFACTORY SOILS PLACED IN 6' LIFTS AND COMPACTED.
- COMPACT EACH LAYER OF INITIAL AND FINAL BACKFILL SOIL MATERIAL AT 90 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.

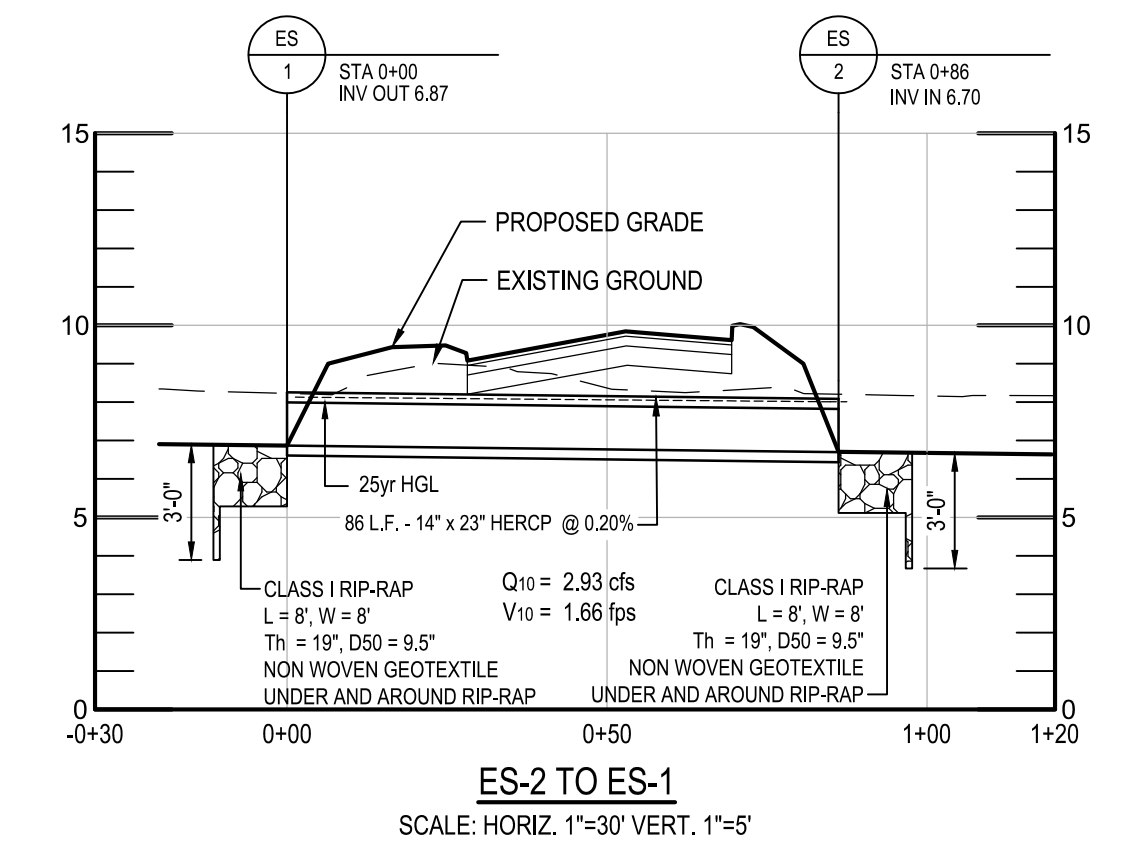
2 PIPE BEDDING DETAIL
NOT TO SCALE



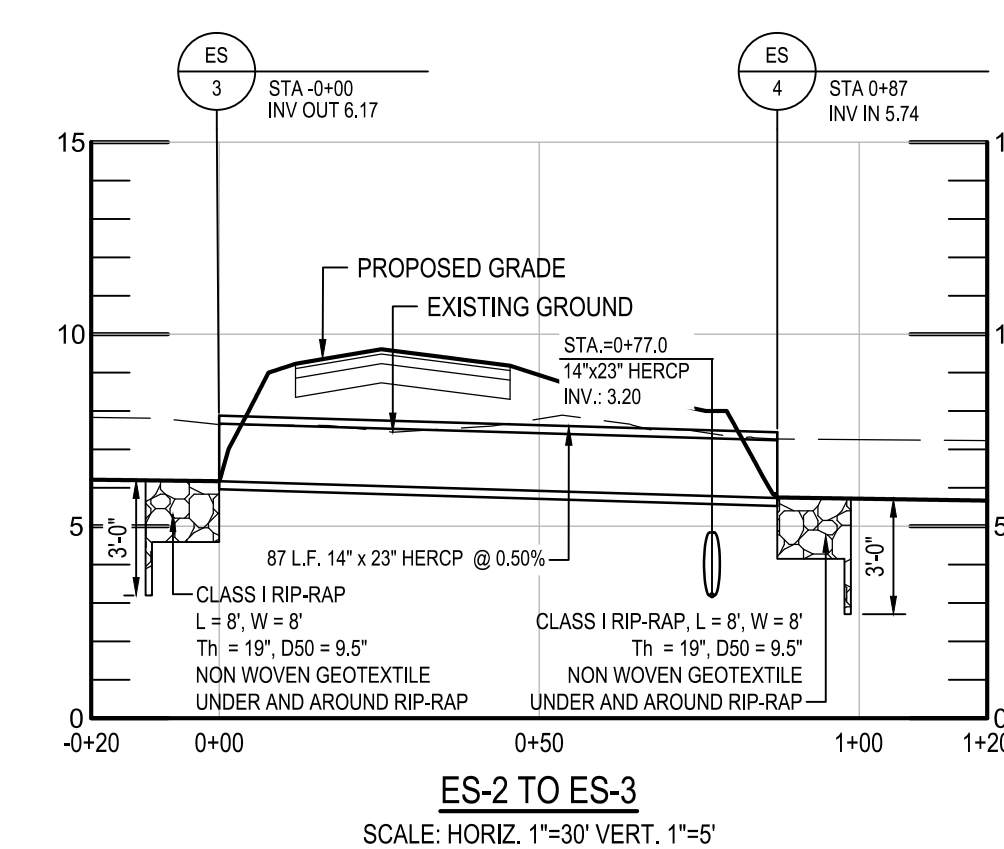
HW-1 TO EXISTING
SCALE: HORIZ. 1"=30' VERT. 1"=5'



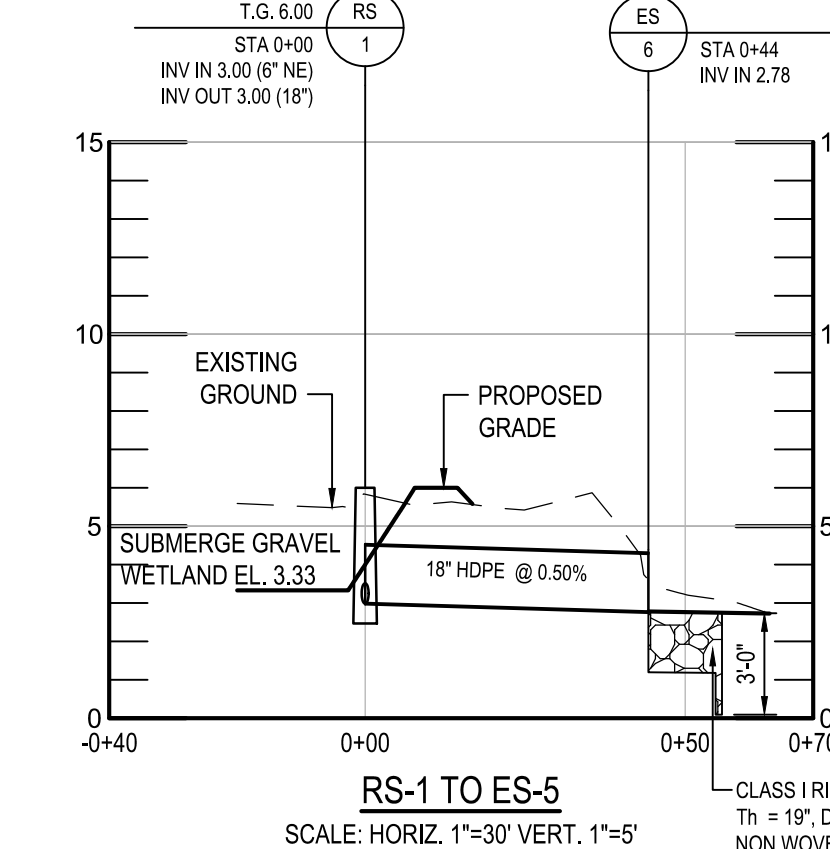
SECTION A-A (ENTRANCE)
SCALE: HORIZ. 1"=30' VERT. 1"=5'



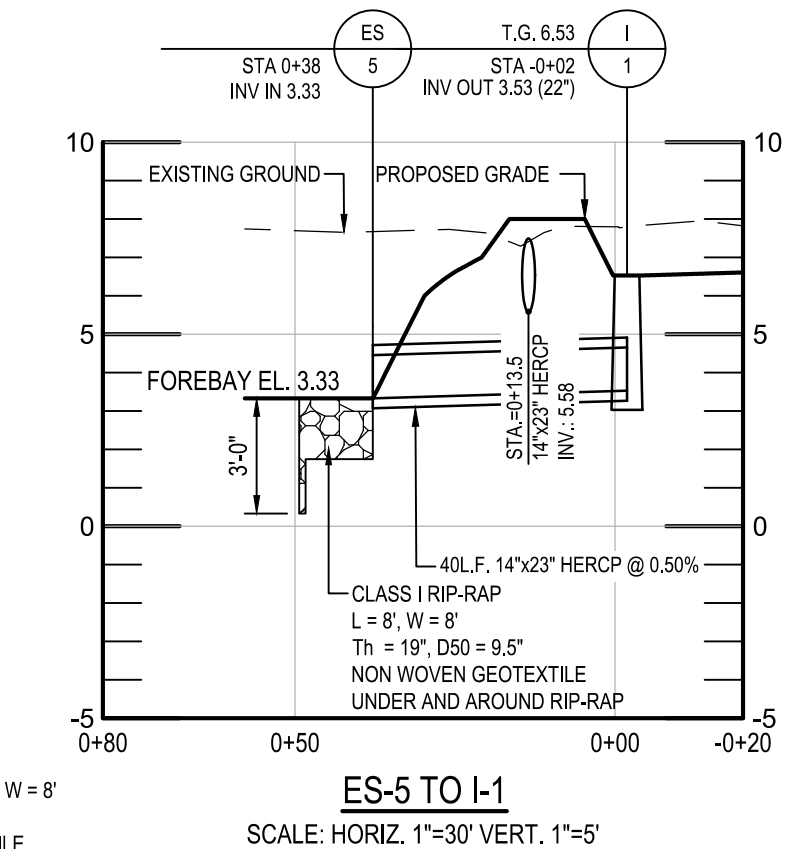
ES-2 TO ES-1
SCALE: HORIZ. 1"=30' VERT. 1"=5'



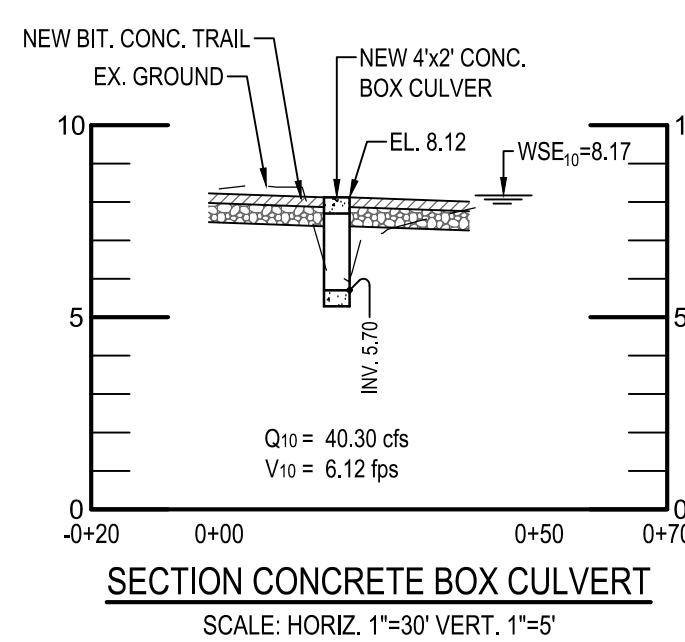
ES-2 TO ES-3
SCALE: HORIZ. 1"=30' VERT. 1"=5'



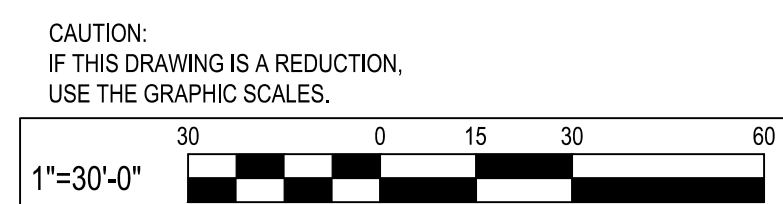
RS-1 TO ES-5
SCALE: HORIZ. 1"=30' VERT. 1"=5'



ES-5 TO I-1
SCALE: HORIZ. 1"=30' VERT. 1"=5'



SECTION CONCRETE BOX CULVERT
SCALE: HORIZ. 1"=30' VERT. 1"=5'



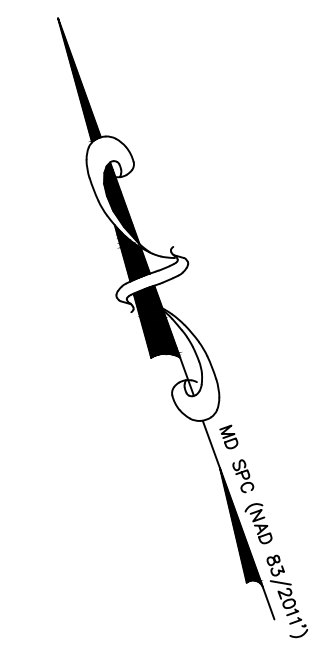
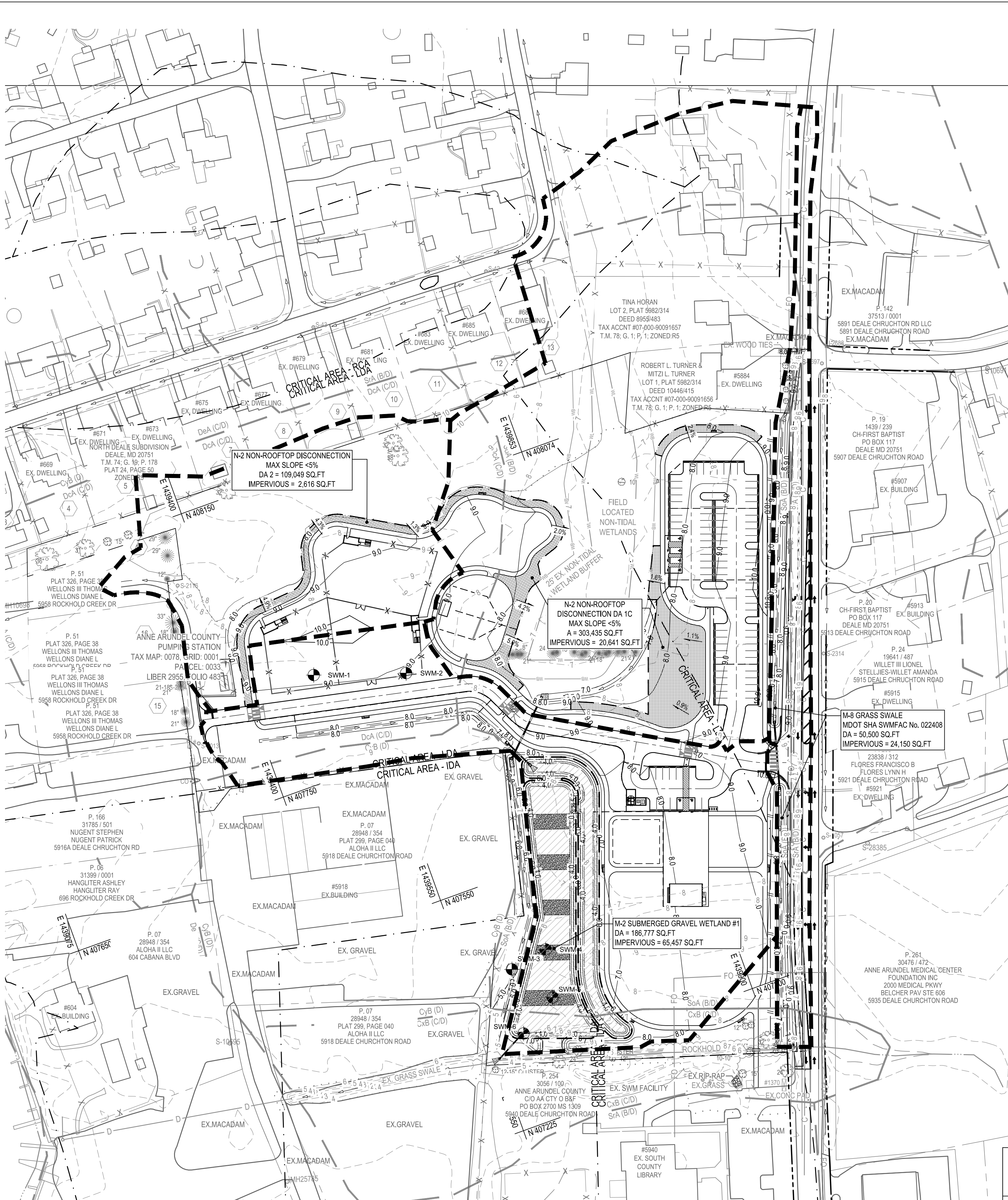
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED		APPROVED	
DATE	DATE	DATE	DATE
CHIEF ENGINEER	PROJECT MANAGER	SCALE: 1" = 30'	DEALE COMMUNITY PARK PROFILES
		DRAWN BY: R.S.S.	
		CHECKED BY: R.W.H.	
		SHEET NO. 16 OF 47	
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY	PROJECT NO.: P582001	
		CONTRACT NO.: P582001	

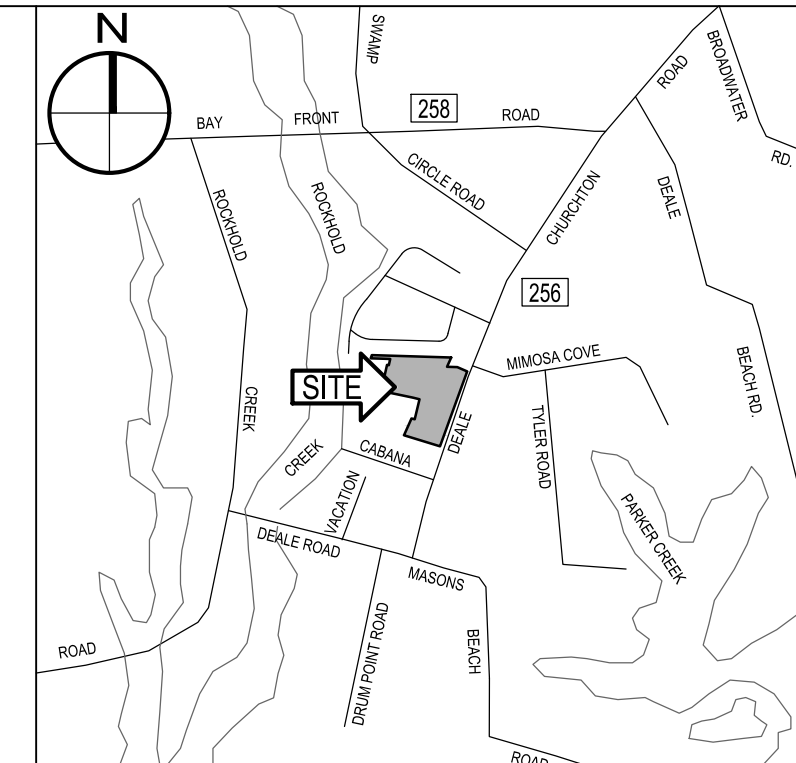
BID SET

P:\2017\17141805\Drawings\07-Stormwater Management Plan.dwg Nov 07, 2023 - 10:37am Plot By: rsmith



STORMWATER MANAGEMENT LEGEND

- SoA (B/D) MAPPED SOIL UNIT / HYDROLOGIC SOIL GROUP RATING
- DaA (C/D) DRAINAGE AREA BOUNDARY
- PROPOSED STORM DRAIN
- ▨ M-2 SUBMERGED GRAVEL WETLAND AREA
- ▨ TRAIL SURFACE (IMPERVIOUS)
- ▨ TREATED IMPERVIOUS AREA
- ▨ NON-ROOFTOP DISCONNECTION AREA
- ▨ PERMEABLE PAVERS
- SWM-# STORM WATER BORING LOCATION



VICINITY MAP
SCALE: 1" = 2,000'

SOIL LEGEND:

NAME	DESCRIPTION	HSG RATING	k RATING (WHOLE SOIL)
CxB	CUMBERSTONE MATTAPEX	C/D	0.37
CyB	CUMBERSTONE MATTAPEX URBAN	D	0.37
DA	DEALE SHADYOAK	C/D	0.43
DA	DEALE SHADYOAK URBAN	C/D	0.43
SpA	SHADYOAK ELKTON	B/D	0.37
SpA	SHADYOAK ELKTON (FREQUENTLY PONDED)	B/D	0.37
SrA	SHADYOAK-ELKTON URBAN	B/D	0.37

Project Table for Drainage Area DA-1 (A-F)

Permit Number	G02019665
Project Number	P582000
Project Name	DEALE COMMUNITY PARK
Structure Address	DEALE CHURCHTON ROAD
Structure City	DEALE
State	MD
Structure Zip	20751
Total Drainage Area (Acres)	30.93
RCN - Pre Construction	83
RCN - Post Construction	84
RCN - Woods	77
Total Number of BMPs	3
PE Required (see Note 1)	1.6
PE Addressed (see Note 2)	1.6
MD 8-Digit HUC (see Note 4)	2131005
USGS 12-Digit HUC	

SUMMARY TABLE (FACILITY BOTTOM VS GROUND WATER ELEVATION)

BORING #	STORMWATER MANAGEMENT FACILITY	ELEVATION OF FACILITY BOTTOM	GROUND WATER ELEVATION	Total Depth
SWM #1	N/A	-	-	10'
SWM #2	N/A	-	-	10'
SWM #3	Submerged Gravel Wetland	0.66'	-1'	9.4'
SWM #4	Submerged Gravel Wetland	0.66'	1.2'	10'
SWM #5	Submerged Gravel Wetland	0.66'	-1'	10'
SWM #6	Submerged Gravel Wetland	0.66'	1.5'	9.4'

STORM ID	STRU_NAME	MDE BMP CLASS	MDE BMP TYPE	CONSTRUCTION PURPOSE	ON or OFF SITE	LAND USE	DEVICE DRAINAGE AREA (acres)	IMPERVIOUS AREA DRAINING TO DEVICE (Square feet)	IMPERVIOUS ACRES RESTORED (See Note 3)	MD NORTH COORD (NAD83 - FT)	MD EAST COORD (NAD83 - FT)	WQ _v (ft3) (See Note 5)	Maintenance Responsibility	Comments
	Submerged Gravel Wetland	E	M2	NEWD	ON	MSGW	4.29	65,457	N/A	N 407,480	E 1,439,690	15,339	County	
	Grass Swale	E	M8	NEWD	ON	MSWG	1.16	24,150	N/A	N 407,749	E 1,440,097	657	County	
	Disconnection of Non-Rooftop Runoff	E	N2	NEWD	ON	NDNR	6.97	20,641	N/A	N 407,740	E 1,439,960	1,634	County	

Project Table for Drainage Area DA-2

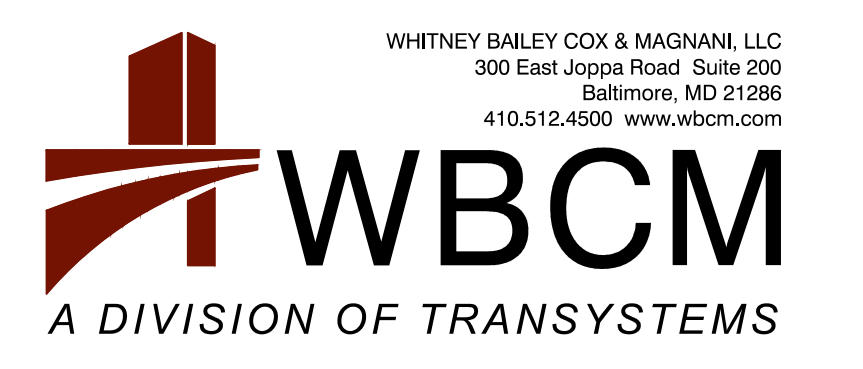
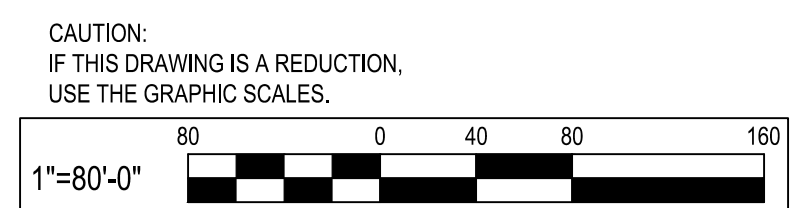
Permit Number	G02019665
Project Number	P582000
Project Name	DEALE COMMUNITY PARK
Structure Address	DEALE CHURCHTON ROAD
Structure City	DEALE
State	MD
Structure Zip	20751
Total Drainage Area (Acres)	2.501
RCN - Pre Construction	80
RCN - Post Construction	80
RCN - Woods	77
Total Number of BMPs	1
PE Required (see Note 1)	1.6
PE Addressed (see Note 2)	0.1
MD 8-Digit HUC (see Note 4)	2131005
USGS 12-Digit HUC	

Stormwater Management - Summary

ESD Practice type	ESD Practice	Number	Area of Filter Af (ft2)	Drainage Area (ft2)	Impervious Area (ft2)	%	Rv	Design Pe	ESDv treated (ft3)
M2	SUBMERGED GRAVEL WETLANDS	1	21,433	186,777	65,457	35%	0.37	2.70	15,339
M8	GRASS SWALE - SHA IMPERVIOUS	2	2,220	50,500	24,150	37%	0.47	1.00	657
N2	N-2, Disconnection of Non-rooftop runoff Impervious DA-2	1	4,360	109,049	2,616	2%	0.95	1.00	207
N2	N-2, Disconnection of Non-rooftop runoff Impervious DA-1C	2	20,641	303,435	20,641	7%	0.95	1.00	1,634
Sub-total Provided Treatment by ESD measures					649,761	112,864			17,837
Required Treatment by ESD measures									1,634

STORM_ID	STRU_NAME	MDE BMP CLASS	MDE BMP TYPE	CONSTRUCTION PURPOSE	ON or OFF SITE	LAND USE	DEVICE DRAINAGE AREA (acres)	IMPERVIOUS AREA DRAINING TO DEVICE (Square feet)	IMPERVIOUS ACRES RESTORED (See Note 3)	MD NORTH COORD (NAD83 - FT)	MD EAST COORD (NAD83 - FT)	WQ _v (ft3) (See Note 5)	Maintenance Responsibility	Comments
	Disconnection of Non-Rooftop Runoff	E	N2	NEWD	ON	NDNR	2.5	2,616	N/A	N 408,000	E 1,439,500	207	County	

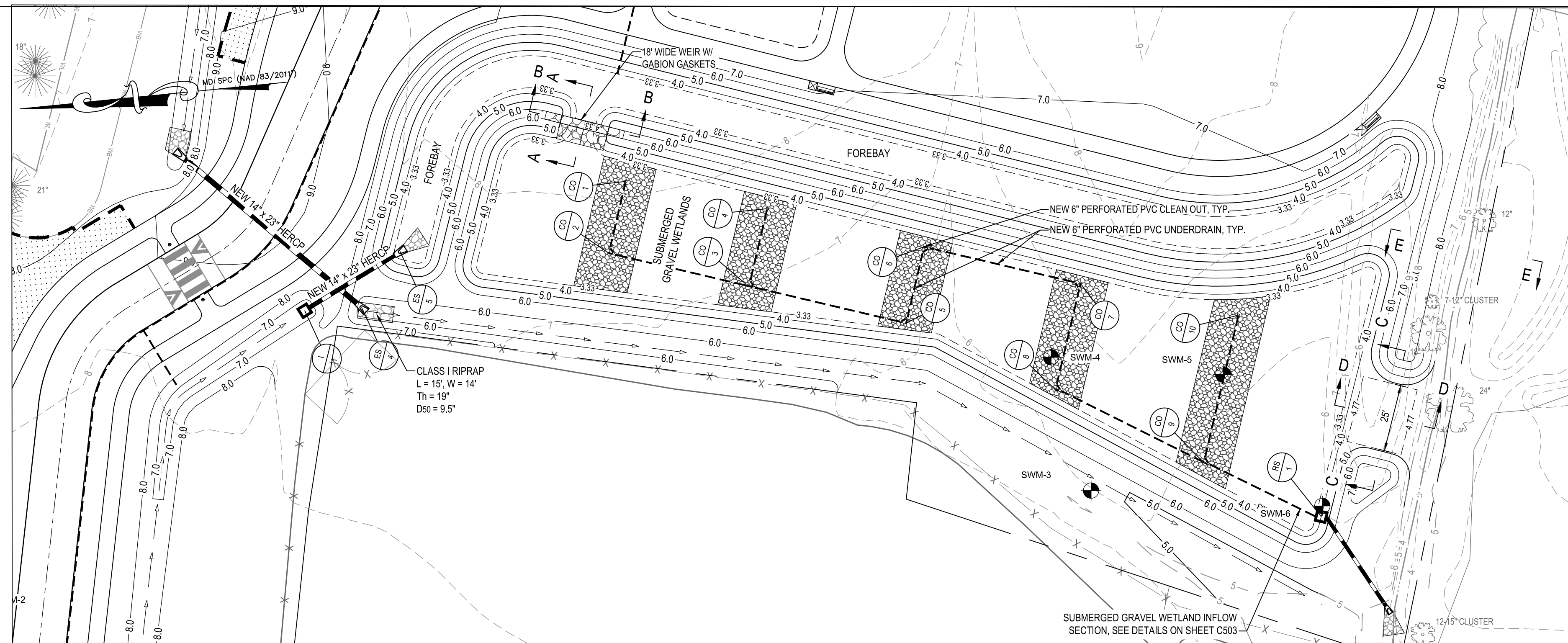
BID SET



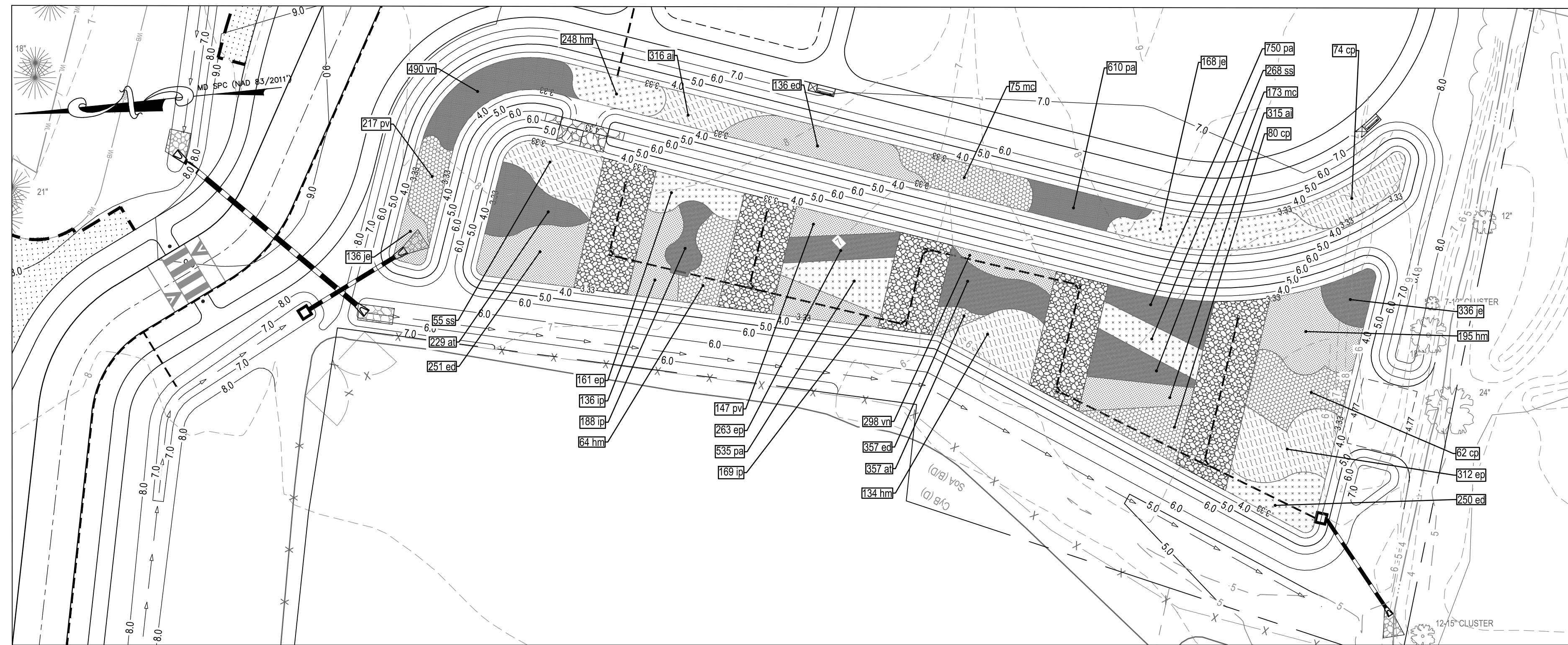
WHITNEY BAILEY COX & MAGNANI LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS				APPROVED				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				
NO.	DESCRIPTION	BY	DATE	DATE	DATE	DATE	DATE	SCALE: 1" = 80'	DEALE COMMUNITY PARK			
								DRAWN BY: R.S.S.	STORM WATER MANAGEMENT PLAN			
								CHECKED BY: R.W.H.				
								SHEET NO. 17 OF 47				
								PROJECT NO.: P582001	STORM WATER MANAGEMENT PLAN			
								CONTRACT NO.: P582001				



SEE SHEET C503 FOR DETAILS AND SPECIFICATIONS.
M-2 SUBMERGED GRAVEL WETLANDS
SCALE: 1" = 30'



M-2 SUBMERGED GRAVEL WETLANDS (PLANTING PLAN)
SCALE: 1" = 30'

AS-BUILT CERTIFICATION

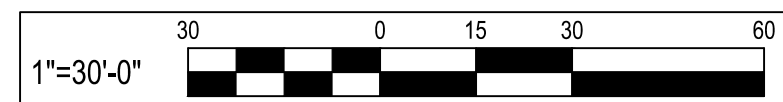
I HEREBY CERTIFY THAT THE STORMWATER MANAGEMENT FACILITIES SHOWN ON THE PLANS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS APPROVED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, EXCEPT AS NOTED IN RED ON THE "AS-BUILT" DRAWINGS. PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE # _____, EXPIRATION DATE _____

NAME (PRINTED) _____ SIGNATURE _____
MARYLAND REGISTRATION NUMBER _____ DATE _____

M-2 SUBMERGED GRAVEL WETLANDS
FACILITY ID DESCRIPTION _____

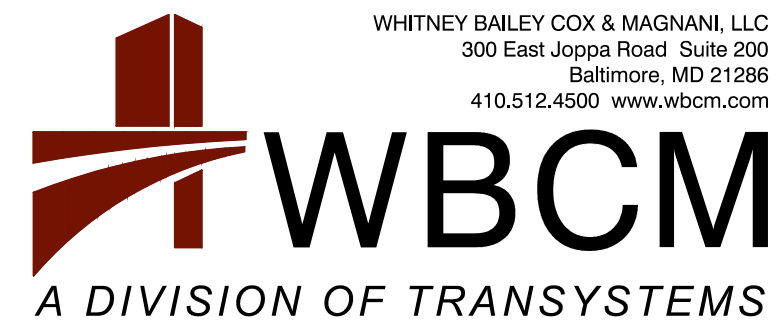
"CERTIFY" MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED ON SUFFICIENT AND APPROPRIATE ONSITE INSPECTIONS AND MATERIAL TESTS CONDUCTED DURING CONSTRUCTION

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.



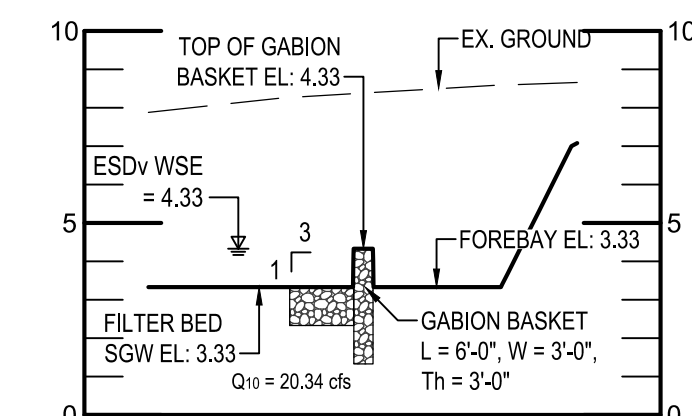
PLANTING LEGEND:

- MAJOR TREE
- MINOR TREE
- PERENNIAL / GRASSES
- SEED MIX ONLY

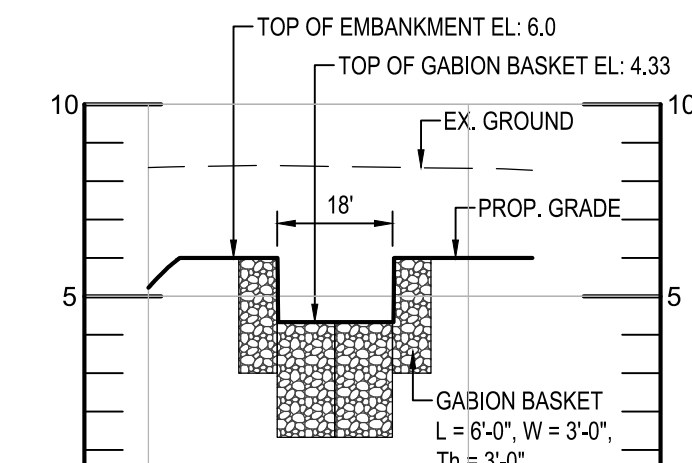


WHITNEY BAILEY COX & MAGNANI LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

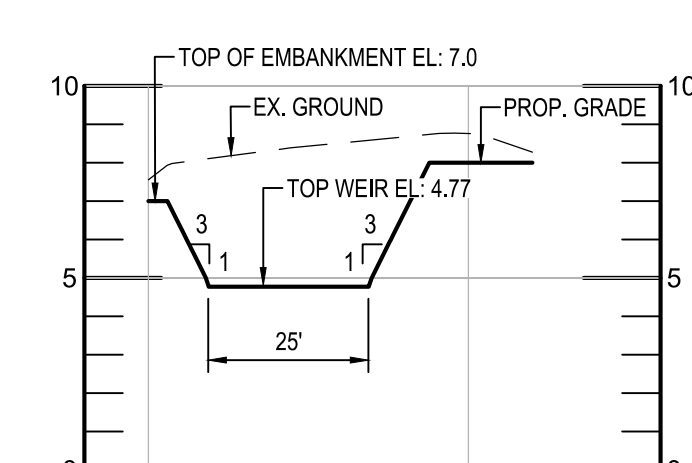
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License # 27734 Expiration Date: 07/12/2024



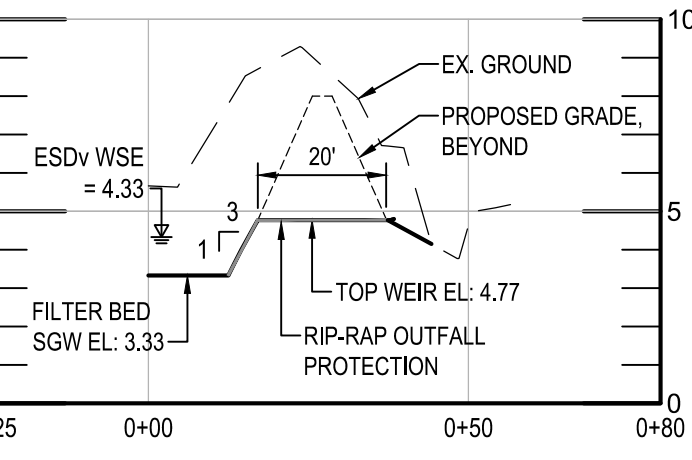
SECTION A-A
SCALE: HORIZ. 1"=30' VERT. 1"=5'



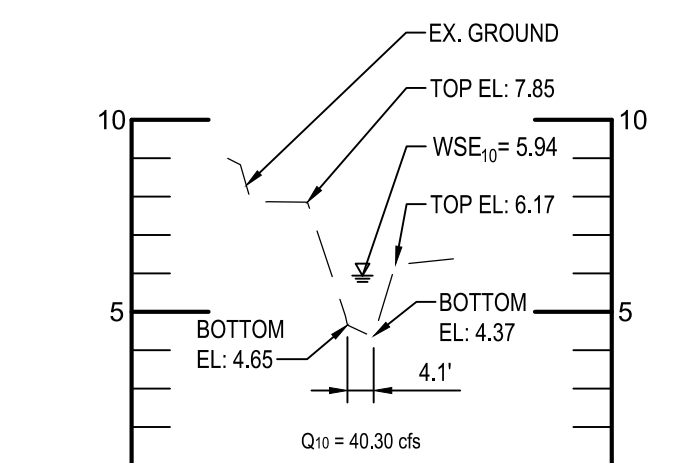
SECTION B-B
SCALE: HORIZ. 1"=30' VERT. 1"=5'



SECTION C-C
SCALE: HORIZ. 1"=30' VERT. 1"=5'



SECTION D-D
SCALE: HORIZ. 1"=30' VERT. 1"=5'



SECTION E-E
SCALE: HORIZ. 1"=30' VERT. 1"=5'

PROJECT NAME: DEALE COMMUNITY PARK		
AS - BUILT DATA FOR ESD PRACTICES		
* TO BE COMPLETED BY THE CERTIFYING ENGINEER		
TYPE OF FACILITY: M-2, SUBMERGED GRAVEL WETLAND	BMP ID: SUBMERGED GRAVEL WETLAND (M-2) FACILITY #1	
FEATURE	DESIGN	*AS-BUILT
FOREBAY		
BOTTOM ELEVATION	3.33	
WEIR WIDTH / ELEVATION	20' / 4.33'	
DISTRIBUTION PIPE SIZE / INV. IN / INV. OUT	N/A	
CELLS		
BOTTOM ELEVATION OF STONE / THICKNESS	0.41' / 24"	
CHOKING STONE	3"	
TOP ELEVATION OF BSM / THICKNESS	3.33 / 8"	
WEIR WIDTH / ELEVATION	25' / 4.80'	
DISTRIBUTION PIPE SIZE/ MATERIAL / ELEV.	6" / PVC / 0.91'	
OUTLET		
STRUCTURE / ELEVATION	RS-1 / 4.33'	
LOW FLOW PIPE SIZE/ MATERIAL / ORIFICE SIZE	6" PVC / 3.5"	
UNDERDRAIN INV. IN RISER	3.0'	
UNDERDRAIN INV. OUT RISER	N/A	
TOP OF EMBANKMENT	6.00	
PLANTINGS		
OBSERVATION WELL WITH DEPTH TO FILTER BOTTOM INDICATED ON CAP	OBS #1, (3.92')	
DATE AS-BUILT ACCEPTED BY MDE:		

STORMWATER MANAGEMENT PLANT SCHEDULE					
Symbol	Quantity	Botanical Name	Common Name	Size	Note
al	631	Aesclaplia incarnata	Swamp Milkweed	1 QL	18" O.C.
at	586	Aesclaplia tuberosa	Butterfly Weed	1 QL	18" O.C.
cp	216	Comptonia peregrina	Sweet Fern	1 gal.	3" O.C.
ed	1022	Eupatorium dubium 'Little Joe'	Dwarf Joe Pye Weed	1 QL	18" O.C.
ep	736	Echinacea purpurea	Purple Coneflower	1 QL	18" O.C.
hm	641	Hibiscus moscheutos	Rose mallow	1 QL	24" O.C.
ip	505	Iris prismatica	Slender Blueflag	1 QL	18" O.C.
je	258	Juncus effusus	Soft Rush	1 QL	24" O.C.
mc	326	Muhlenbergia capillaris	Muhly Grass	1 QL	24" O.C.
pa	1892	Packera aurea	Golden Ragwort	1 QL	12" O.C.
pv	364	Panicum virgatum	Switchgrass	1 QL	24" O.C.
ss	1000	Schizachyrium scoparium	Little Bluestem	1 QL	18" O.C.
vn	788	Vernonia noveboracensis	New York Ironweed	1 QL	18" O.C.
Symbol	Quantity	Botanical Name	Common Name	Size	Note
S1	915 s.f.	ERNMX 173	Eastern Native Habitat & CREP Mix		11 lb/ACRE
	40%	Andropogon gerardii	Big Bluestem "Niagara"		
	25%	Panicum virgatum	Virginia Wildrye		
	15%	Chamaecrista fasciculata, P.A. Ecotype	Partridge Pea		
	8%	Sorghastrum nutans	Indiangrass		
	5%	Echinacea purpurea	Purple Coneflower		
	3.9%	Rudbeckia hirta	Black Eyed Susan		
	3.5%	Monarda fistulosa	Wild Bergamont		
	0.1%	Monarda fistulosa	Wild Bergamont		
	0.1%	Pycnanthemum tenuifolium	Narrowleaved Mountain Mint		
S2	950 s.f.	ERNMX 128	Seasonally Flooded Wildlife Food Mix		20 lb/ACRE
	21.5%	Panicum clandestinum	Deer tongue "Tigard"		
	20.0%	Elymus virginicus PA Ecotype	Virginia Wildrye		
	16.8%	Andropogon gerardii	Big Bluestem "Niagara"		
	15.0%	Echinochloa crusgalli var. Frumentacea	Japanese Millet		
	8.0%	Panicum virgatum	Switchgrass		
	4.0%	Chamaecrista fasciculata, PA Ecotype	Partridge Pea		
	1.5%	Verbena hastata	Blue Vervain		
	1.0%	Helopsis helianthoides, PA Ecotype	Oxeye Sunflower		
	1.0%	Juncus effusus	Soft Rush		
	0.8%	Agrostis perennans, Albany Pine Bush Ecotype	Autumn Bentgrass		
	0.1%	Aesclaplia incarnata	Swamp Milkweed		
	0.1%	Aster novae-angliae PA Ecotype	New England Aster		
	1.1%	Eupatorium perfoliatum, PA Ecotype	Boneset		
	0.1%	Monarda fistulosa	Wild Bergamont		
	0.1%	Pycnanthemum tenuifolium	Narrowleaved Mountain Mint		

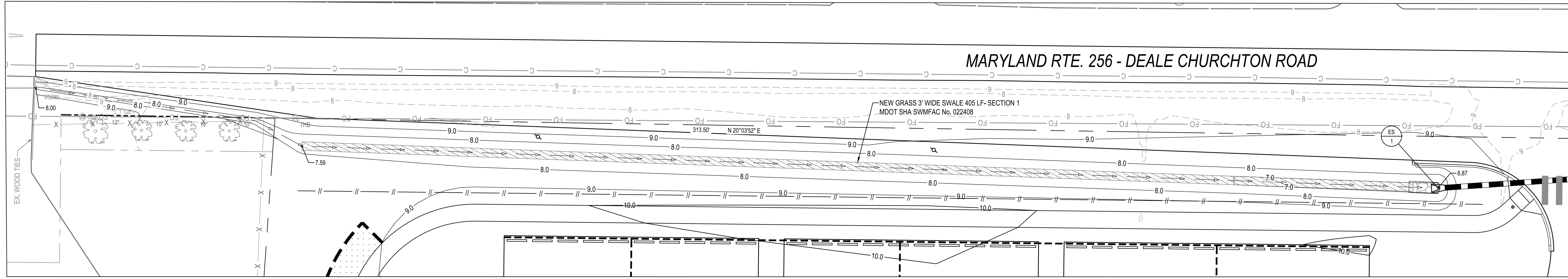
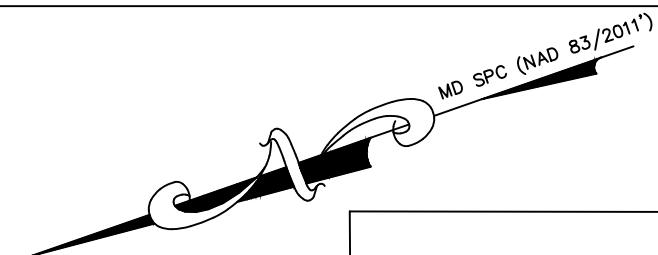
Note: All seed mixes are from Ernst Conservation Seeds, www.ernstseed.com

BID SET

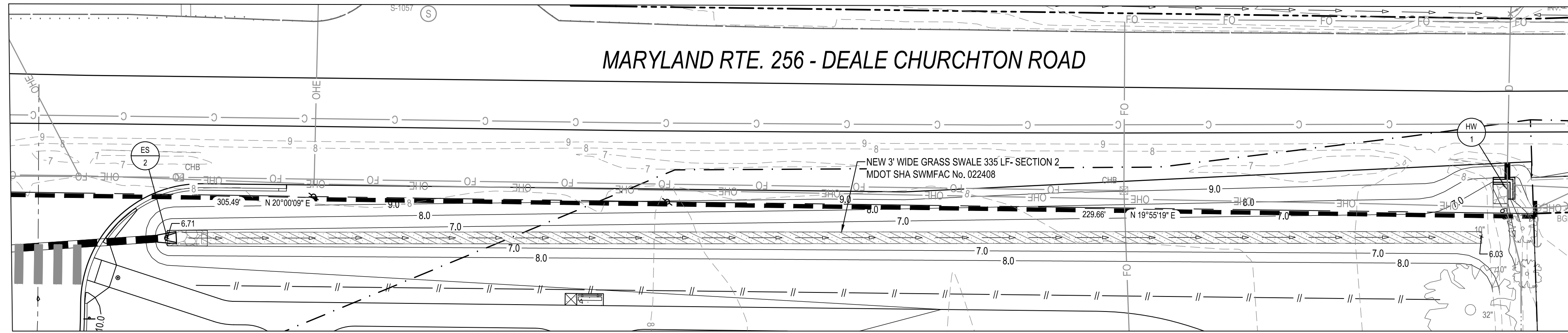
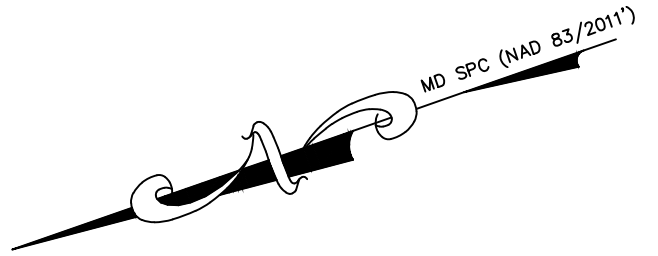
REVISIONS				APPROVED			
NO.	DESCRIPTION	BY	DATE	DATE	DATE	DATE	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

SCALE: 1" = 30'	DEALE COMMUNITY PARK STORM WATER MANAGEMENT PART PLAN
DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.	
SHEET NO. 18 OF 47	
PROJECT NO.: P582001	CONTRACT NO.: P582001
CONTRACT NO.: P582001	



SEE SHEET C504 AND 505 FOR DETAILS AND SPECIFICATIONS.
M-8 GRASS SWALE
 SCALE: 1" = 20'



SEE SHEET C504 AND 505 FOR DETAILS AND SPECIFICATIONS.
M-8 GRASS SWALE
 SCALE: 1" = 20'

PROJECT NAME: Deale Community Park		
DESIGN / AS - BUILT DATA FOR GRASS SWALE		
* TO BE COMPLETED BY THE CERTIFYING ENGINEER		
	DESIGN	*AS-BUILT
BOTTOM WIDTH	3 ft	
TOTAL LENGTH	740 ft	
WQ VOLUME	856 cf	
NUMBER OF CHECK DAMS / WEIRS	N/A	
10 YEAR FREEBOARD	0.31 ft	
DATE AS-BUILT APPROVED:		

NOTE: GRASS SWALE TO BE LINED ON BOTTOM AND SIDES WITH 4" OF TOPSOIL AND SOD INSTALLED AT COMPLETION.

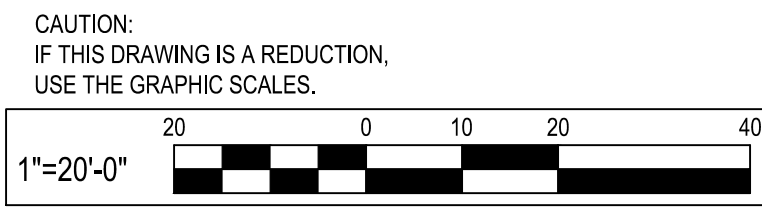
AS-BUILT CERTIFICATION
 I HEREBY CERTIFY THAT THE STORMWATER MANAGEMENT FACILITIES SHOWN ON THE PLANS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS APPROVED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, EXCEPT AS NOTED IN RED ON THE "AS-BUILT" DRAWINGS.
 PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE # _____, EXPIRATION DATE _____

NAME (PRINTED) _____ SIGNATURE _____

MARYLAND REGISTRATION NUMBER _____ DATE _____

GRASS SWALE FACILITY ID DESCRIPTION _____

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED ON SUFFICIENT AND APPROPRIATE ONSITE INSPECTIONS AND MATERIAL TESTS CONDUCTED DURING CONSTRUCTION



WHITNEY BAILEY COX & MAGNANI, LLC
 300 East Joppa Road, Suite 200
 Baltimore, MD 21286
 410.512.4500 www.wbcm.com

WBCM
 A DIVISION OF TRANSYSTEMS

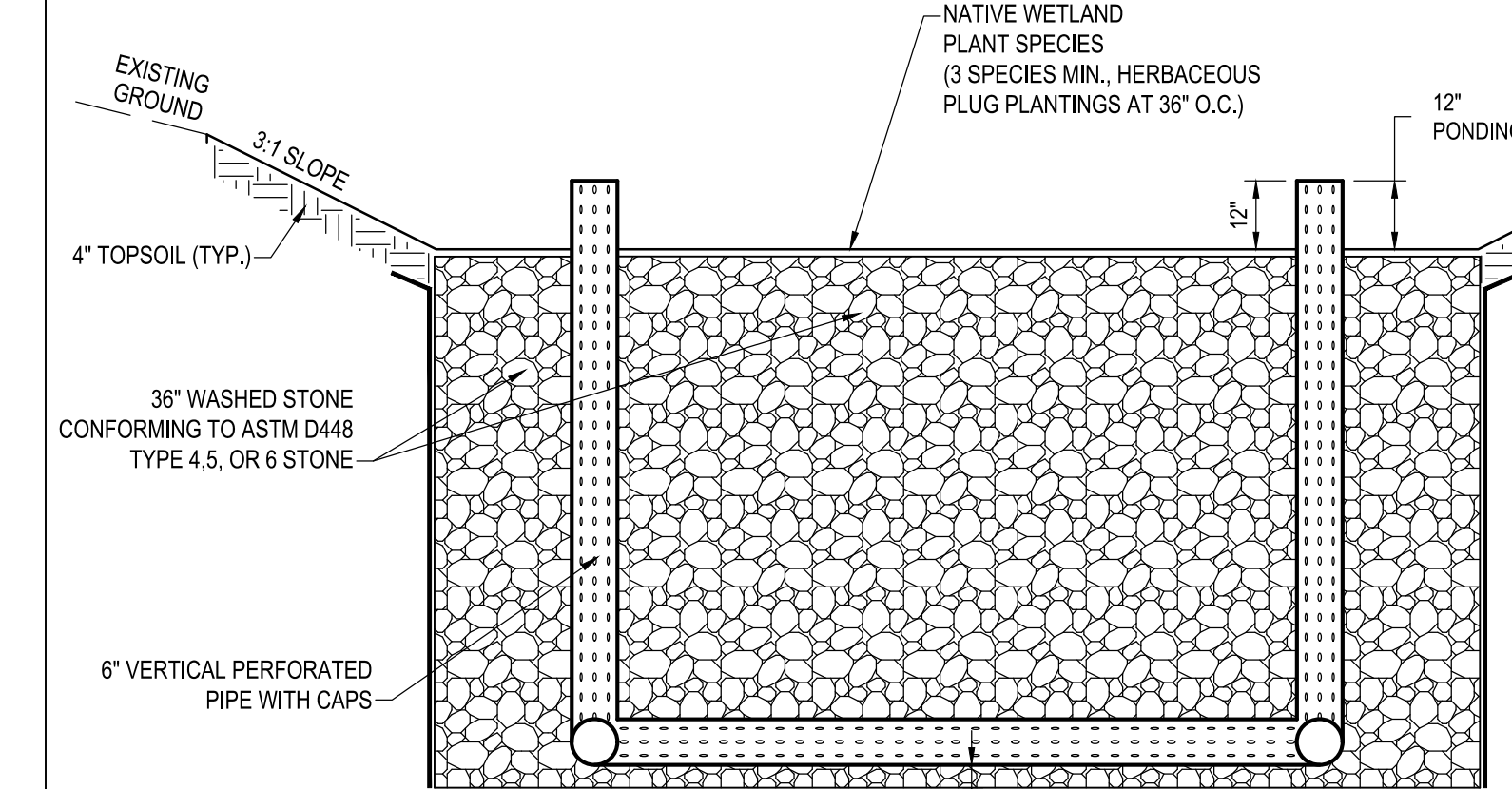
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License #22734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 30'	DEALE COMMUNITY PARK
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.	STORM WATER MANAGEMENT PART PLAN
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 19 OF 47	
		PROJECT NO.: P582001	
		CONTRACT NO.: P582001	

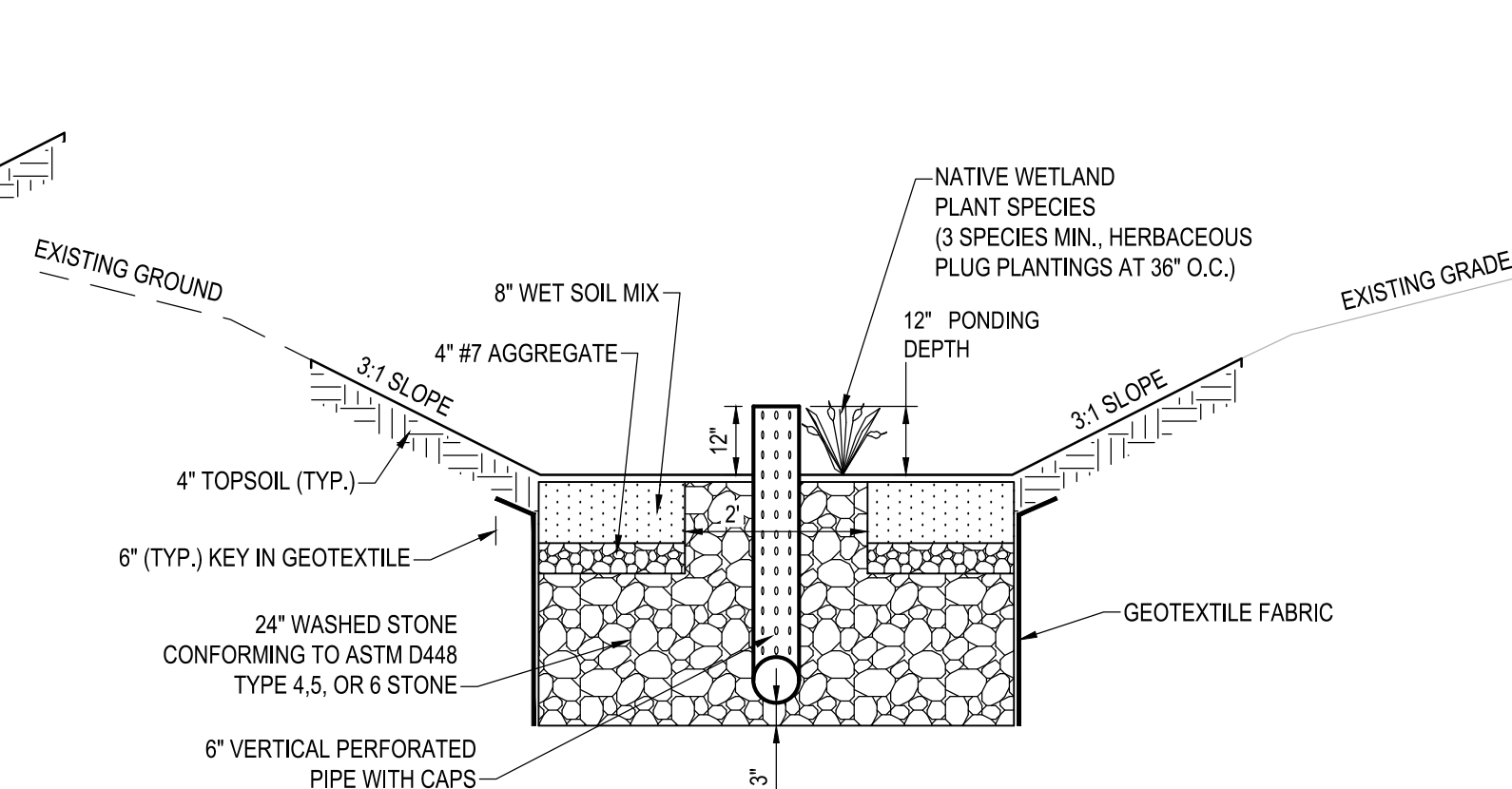
BID SET

P:\2017\17141805\Drawings\07-Site\17141805-C503-Stormwater Management Details.dwg Nov 07, 2023 - 11:32am Plot By: rsmith



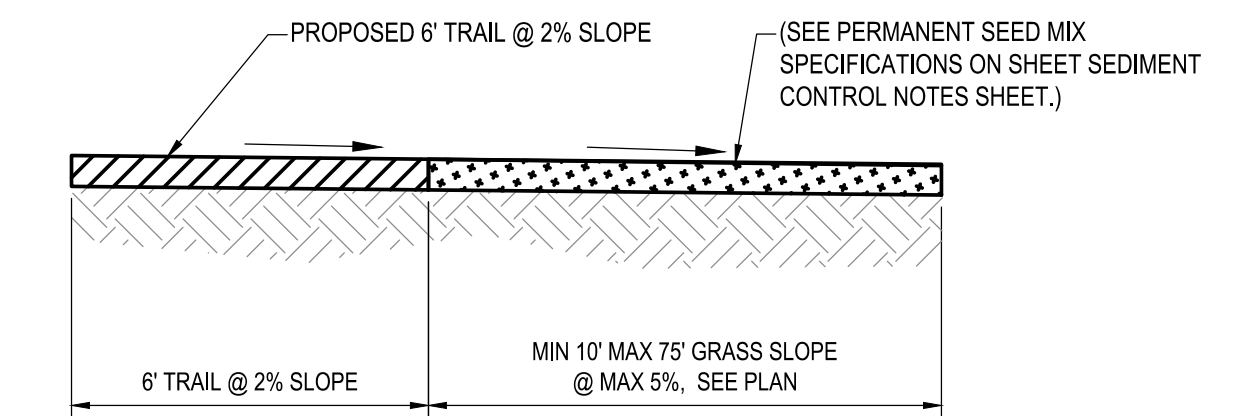
ELEVATION

1 SUBMERGED GRAVEL WETLAND INFLOW
NOT TO SCALE



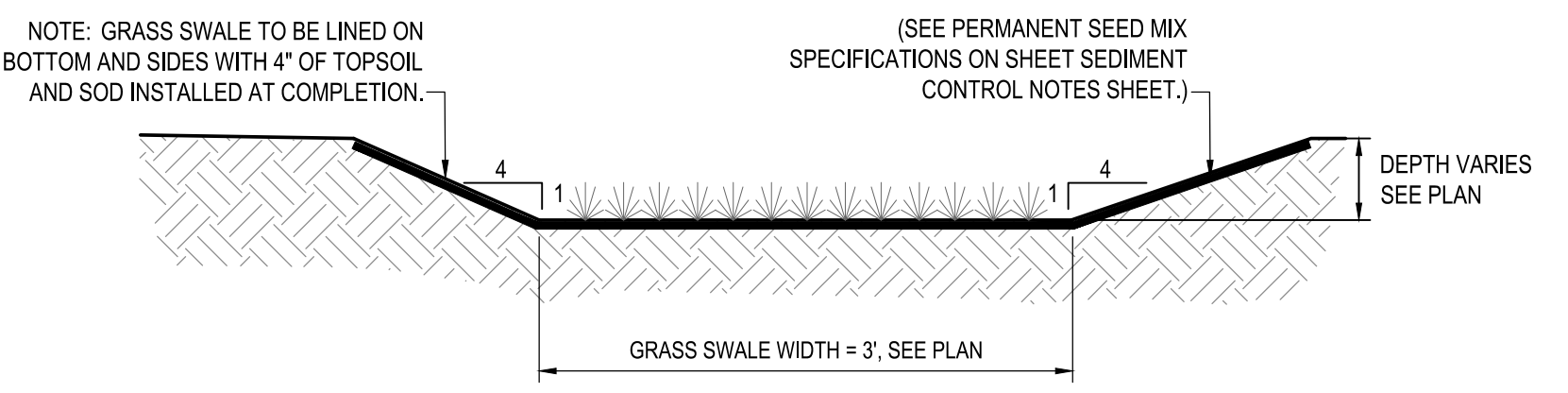
SECTION

2 SUBMERGED GRAVEL WETLAND INFLOW
NOT TO SCALE



SECTION

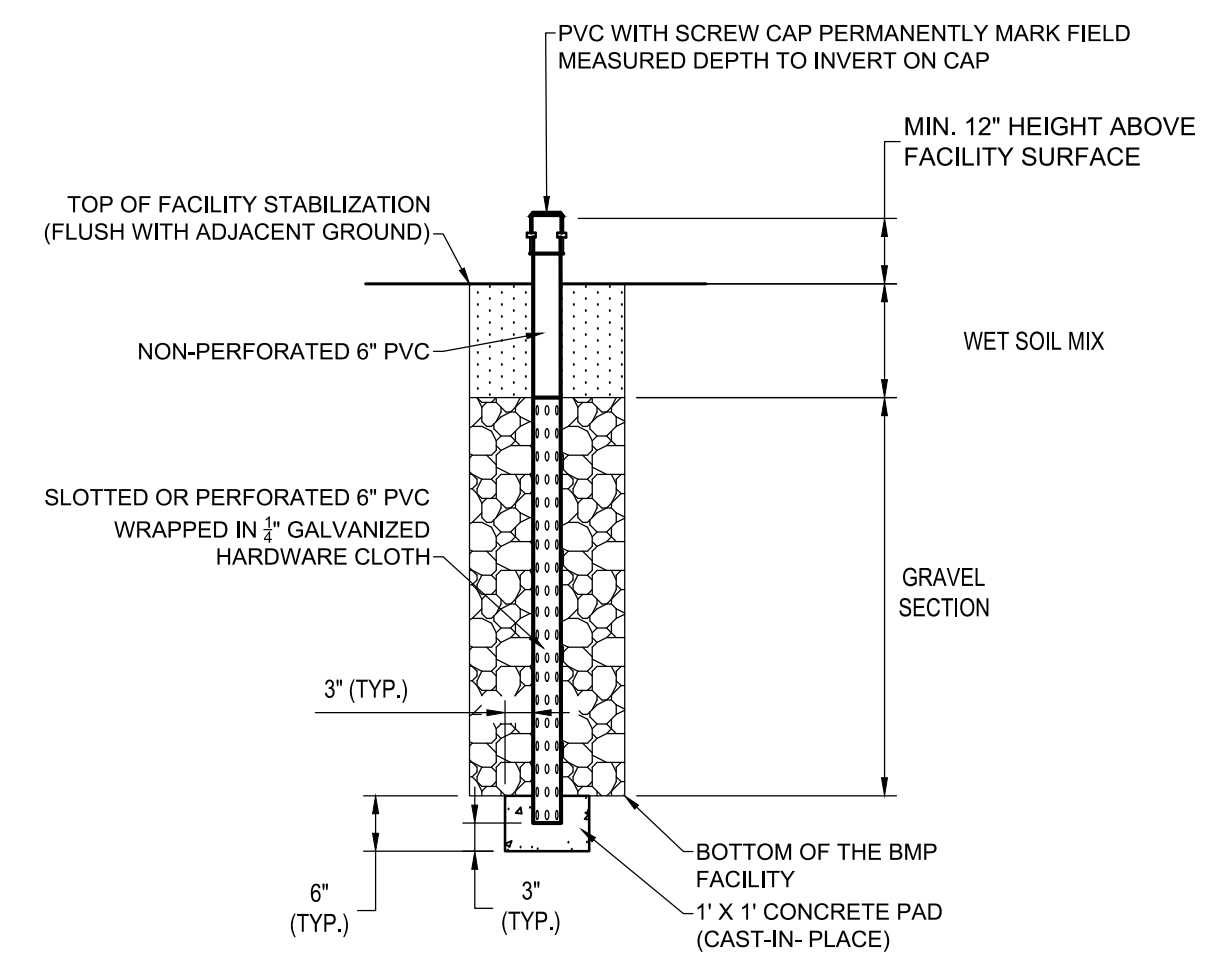
6 NON-ROOFTOP DISCONNECTION AREA
NOT TO SCALE



GRASS SWALE - TYPICAL SECTION
NOT TO SCALE

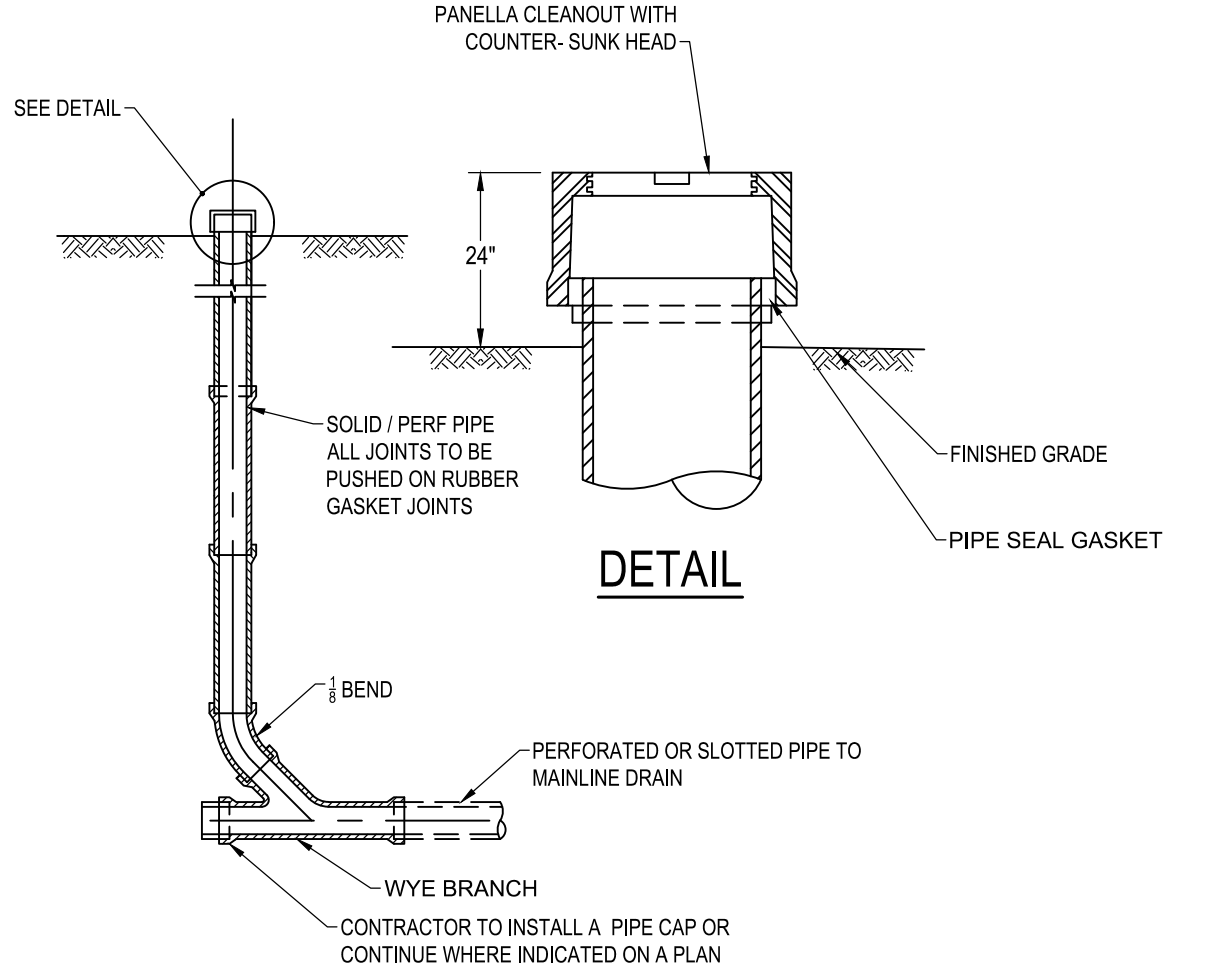
INSPECTION:
REGULAR INSPECTIONS SHALL BE MADE DURING THE FOLLOWING STAGES OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER 48 HOURS PRIOR TO REQUIRED INSPECTION:
• DURING EXCAVATION TO SUBGRADE.
• DURING PLACEMENT OF SEED.
• UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION.

7 GRASS SWALE
NOT TO SCALE



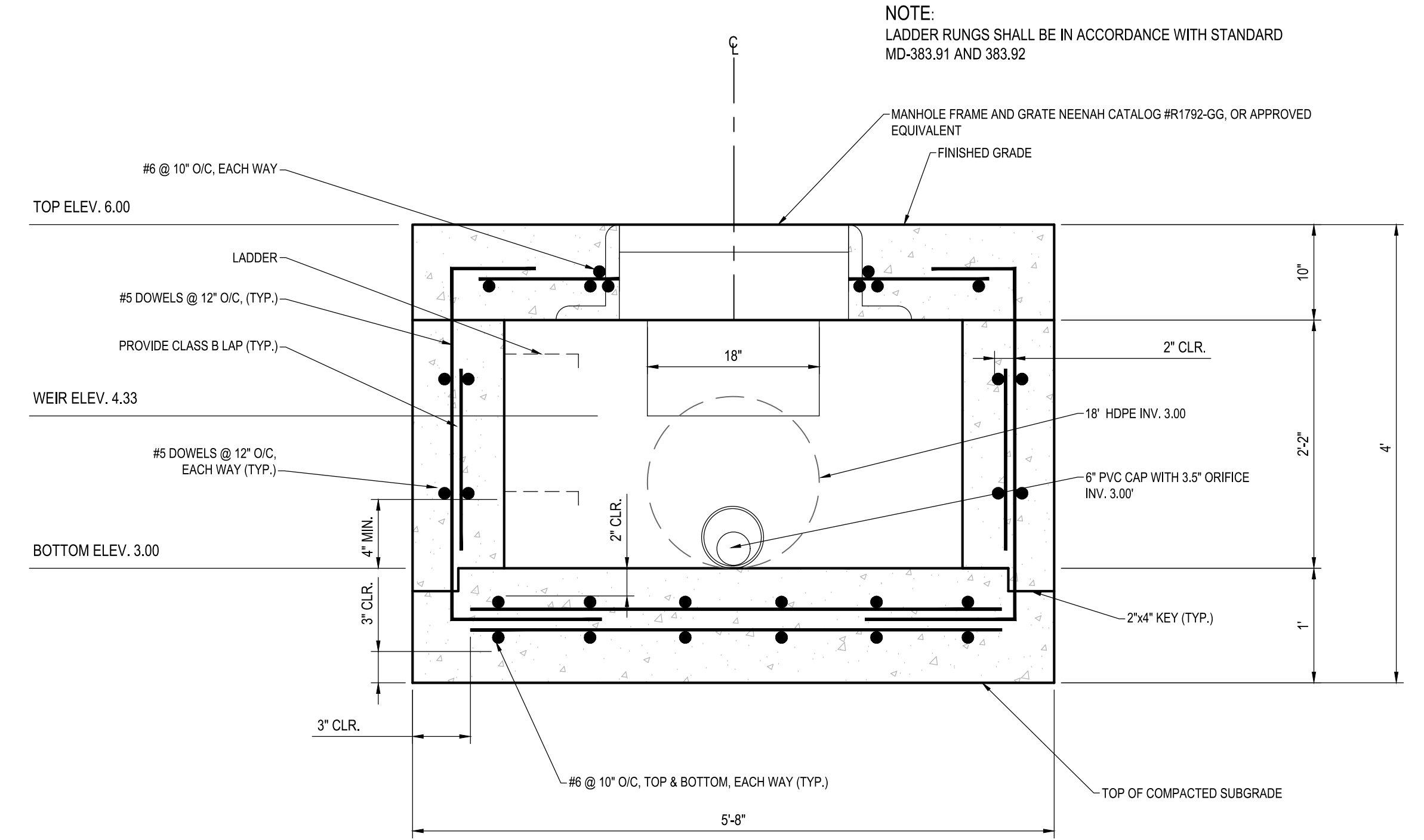
SECTION

3 OBSERVATION WELL
NOT TO SCALE

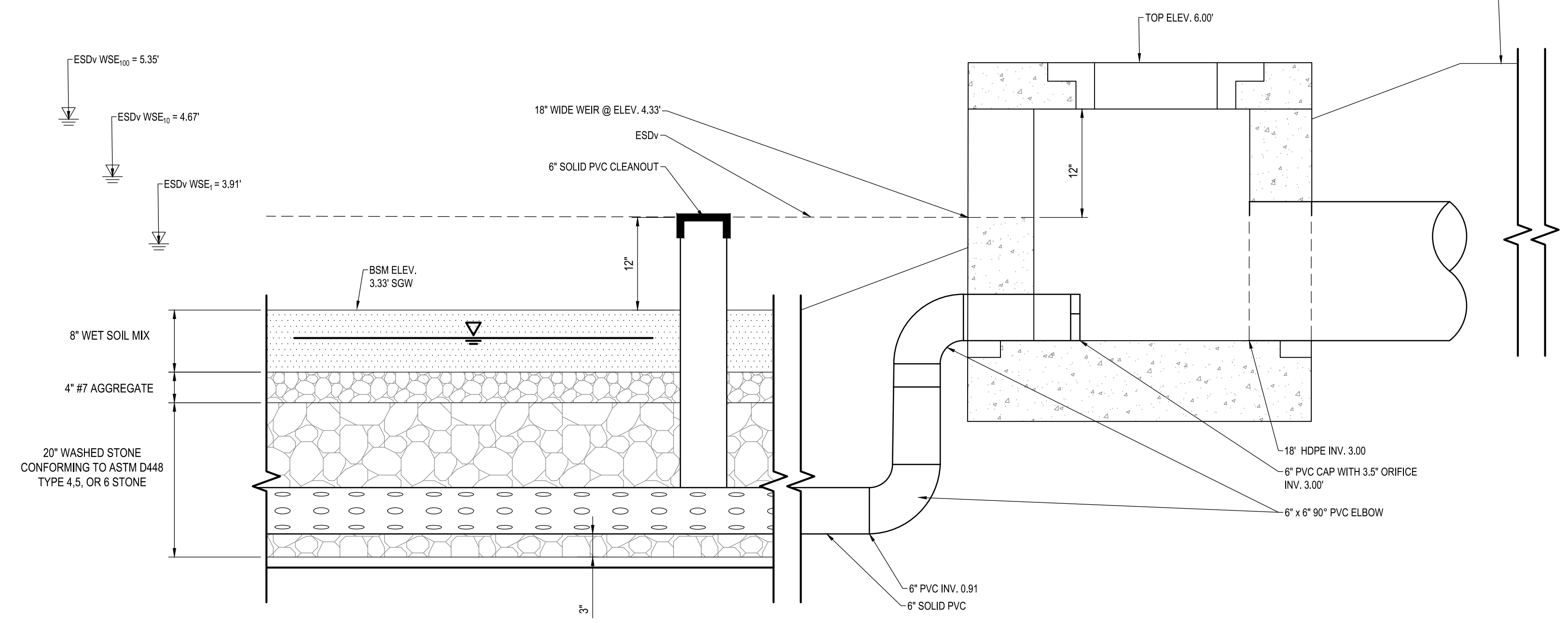


SECTION

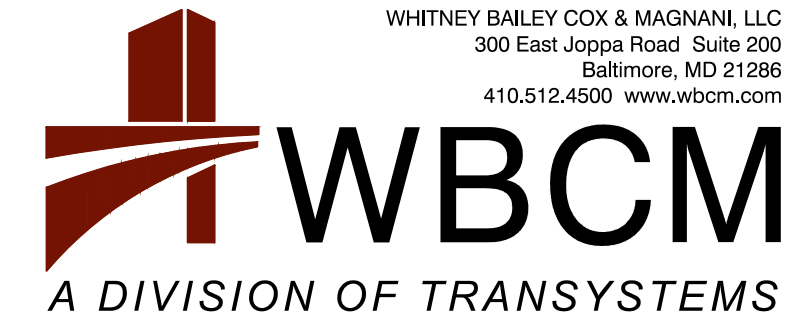
4 CLEANOUT TYPICAL DETAIL
NOT TO SCALE



5 RS-1 STRUCTURE OUT OF CELL
SCALE: 1" = 2'



SECTION

 <p>WHITNEY BAILEY COX & MAGNANI, LLC 300 East Joppa Road, Suite 200 Baltimore, MD 21286 410.512.4500 www.wbcm.com</p> <p>I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License #27734 Expiration Date: 07/12/2024</p>				<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				NO.	DESCRIPTION	BY	DATE																	<p>ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS</p>			
				NO.	DESCRIPTION	BY	DATE																								
<p>APPROVED _____ DATE _____</p> <p>CHIEF ENGINEER</p>		<p>APPROVED _____ DATE _____</p> <p>PROJECT MANAGER</p>		<p>SCALE: AS SHOWN</p> <p>DRAWN BY: R.S.S.</p> <p>CHECKED BY: R.W.H.</p> <p>SHEET NO. 20 OF 47</p> <p>PROJECT NO.: P582001</p> <p>CONTRACT NO.: P582001</p>		<p>DEALE COMMUNITY PARK</p> <p>STORM WATER MANAGEMENT DETAILS</p>																									

BID SET

SEQUENCE OF CONSTRUCTION FOR SUBMERGED GRAVEL WETLANDS (M-2) SWM FACILITY

1. THE CONTRACTOR SHALL CALL ANNE ARUNDEL COUNTY DPW, DIVISION OF ENGINEERING AND CONSTRUCTION (410) 222-7800 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE A MEETING AND AN INSPECTION.
2. EXCAVATE FOREBAY, INSTALL GABION WEIR AND OVERFLOW.
3. STABILIZE FOREBAY.
4. INSTALL FOREBAY PLANTINGS AS INDICATED ON PLANS.
5. DEWATER SEDIMENT BASIN AND EXCAVATE FACILITY.
6. PLACE LINER MATERIAL AS INDICATED ON THE PLANS.
7. PLACE STONE IN THE FACILITY AS INDICATED ON THE PLANS. CLEANOUTS MUST BE EXTEND A MINIMUM TWO FEET ABOVE FINISHED GRADE AND BE FURNISHED WITH CAPS THAT CAN BE REMOVED WHEN AND AS NEEDED FOR INSPECTIONS, MAINTENANCE, AND TO CHECK ON WATER LEVELS. STONE IS TO BE WASHED AND SHALL NOT INCLUDE FINE MATERIAL.
8. PLACE WETLAND SOIL AS INDICATED ON THE PLANS.
9. INSTALL PLANTINGS AS INDICATED ON THE PLANS.

SUBMERGED GRAVEL WETLANDS (M-2) INSPECTION, & MAINTENANCE NOTES

INSPECTION:

REGULAR INSPECTIONS SHALL BE MADE DURING THE FOLLOWING STAGES OF CONSTRUCTION:

- DURING EXCAVATION TO SUBGRADE.
- DURING PLACEMENT OF BACKFILL OF PERFORATED INLET PIPE AND OBSERVATION WELLS.
- DURING PLACEMENT OF GEOTEXTILES AND ALL FILTER MEDIA.
- DURING CONSTRUCTION OF ANY APPURTENANT CONVEYANCE SYSTEMS SUCH AS DIVERSION STRUCTURES, INLETS, OUTLETS, AND FLOW DISTRIBUTION STRUCTURES.
- UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION, AND BEFORE ALLOWING RUNOFF TO ENTER THE WETLAND.

MAINTENANCE CRITERIA:

THE FOLLOWING ITEMS SHOULD BE ADDRESSED TO ENSURE PROPER MAINTENANCE AND LONG-TERM PERFORMANCE OF SUBMERGED GRAVEL WETLANDS:

- PRIVATELY OWNED PRACTICES SHALL HAVE A MAINTENANCE PLAN AND BE PROTECTED BY EASEMENT, DEED RESTORATION, ORDINANCE OR OTHER LEGAL MEASURES PREVENTING ITS NEGLIGENCE, ADVERSE ALTERATION, AND REMOVAL.
- DURING THE FIRST YEAR OF OPERATION, INSPECTIONS SHOULD BE CONDUCTED AFTER EVERY MAJOR STORM AND POORLY ESTABLISHED AREAS REVEGETATED.
- SEDIMENT ACCUMULATION IN THE PRETREATMENT AREAS SHOULD BE REMOVED AS NECESSARY.
- SIGNS OF UNEVEN LOW DISTRIBUTION WITHIN THE WETLAND MAY MEAN THAT THE GRAVEL OF UNDERDRAIN IS CLOGGED, THE GRAVEL AND/OR UNDERDRAIN MAY NEED TO BE REMOVED, CLEANED, AND REPLACED.
- A DENSE STAND OF WETLAND VEGETATION SHOULD BE MAINTAINED THROUGH THE LIFE OF THE FACILITY WITH PLANTINGS REPLACED AS NEEDED.
- INLETS AND OUTLETS TO EACH SUBMERGED GRAVEL WETLAND CELL SHOULD BE FREE FROM DEBRIS TO PREVENT CLOGGING.
- EROSION AT INFLOW POINTS SHOULD BE REPAIRED. FLOW SPLITTERS SHOULD BE FUNCTIONAL TO PREVENT BYPASSING OF THE FACILITY.

CONSTRUCTION CRITERIA:

THE FOLLOWING ITEMS SHOULD BE ADDRESSED DURING THE CONSTRUCTION OF PROJECTS WITH SUBMERGED GRAVEL WETLANDS.

SITE DISTURBANCE

ALL ONSITE DISTURBED AREAS SHOULD BE STABILIZED PRIOR TO ALLOWING RUNOFF TO ENTER THE NEWLY CONSTRUCTED WETLAND.

EROSION AND SEDIMENT CONTROL:

THE PROPOSED LOCATION OF A SUBMERGED GRAVEL WETLAND SHALL BE PROTECTED DURING CONSTRUCTION. SURFACE RUNOFF SHALL BE DIVERTED AWAY FROM THE PRACTICE DURING GRADING OPERATIONS. FLOW SPLITTERS AND OTHER CONVEYANCE INFRASTRUCTURE SHALL BE BLOCKED.

GRAVEL MEDIA

THE AGGREGATE SHALL BE COMPOSED OF AN 18 TO 48 INCH LAYER OF CLEAN WASHED, UNIFORMLY GRADED MATERIAL WITH POROSITY OF 40%. (ASTM D488 #57 / AASHTO M-43 STONE OR EQUAL).

SPECIFICATIONS:

1. SEE CHART BELOW.
2. THE CONTRACTOR SHALL SUBMIT SOIL TEST RESULTS (1 PER 30 CY TOPSOIL) TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. PERFORM SOIL TESTS REQUIRED FOR BOTH IMPORTED SOIL AND RE-USED / AMENDED TOP SOIL. SOIL TEST AND RESULTS SHALL INCLUDE AT A MINIMUM: PHOSPHORUS, ORGANIC MATTER, SOLUBLE SALTS, NUTRIENTS, AND TEXTURAL ANALYSIS.
3. PLANT MATERIAL SHALL BE REPRESENTATIVE OF SPECIES AND CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-2004.

MATERIALS SPECIFICATIONS FOR SUBMERGED GRAVEL WETLANDS

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE PLAN SHEET	N/A	PLANTINGS ARE SITE SPECIFIC
BSM	SHA BIORETENTION SOIL MIX (BSM) SECTION 920.01.05 ORGANIC CONTENT MIN. 5% BY DRY WEIGHT (ASTM D 2974)	N/A	MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED MAY 2017 INCLUDING AND ADDENDA THERETO. COPY TO BE KEPT ON-SITE
MULCH	SHREDED HARDWOOD		AGED 6 MONTHS, MINIMUM. NO PINE OR WOOD CHIPS
LINER MATERIAL		N/A	NONWOVEN GEOTEXTILE TABLE H 1 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
GRAVEL	AASHTO M-43	NO.57, 6, OR 67 (3/8" TO 3/4")	
UNDERDRAIN PIPING	F 758, TYPE PS 28 AASHTO M-279 AASHTO M-252	4" TO 6"	SLOTTED OR PERFORATED PIPE. SLOTTED PIPE SHALL HAVE A MINIMUM OPEN AREA OF 1.5 SQ IN. LINEAR FOOT WITH A MAXIMUM SLOT LENGTH OF 2" AND MAXIMUM SLOT WIDTH OF 1/8 INCH. PERFORATED PIPE SHALL BE WRAPPED WITH 14 INCH GALVANIZED HARDWARE CLOTH.
STABILIZATION MATTING	PERMANENT STABILIZATION MATTING NORTH AMERICAN GREEN ERODNET ON155 OR APPROVED EQUAL.		AS NOTED ON PLAN / SECTION / DETAILS

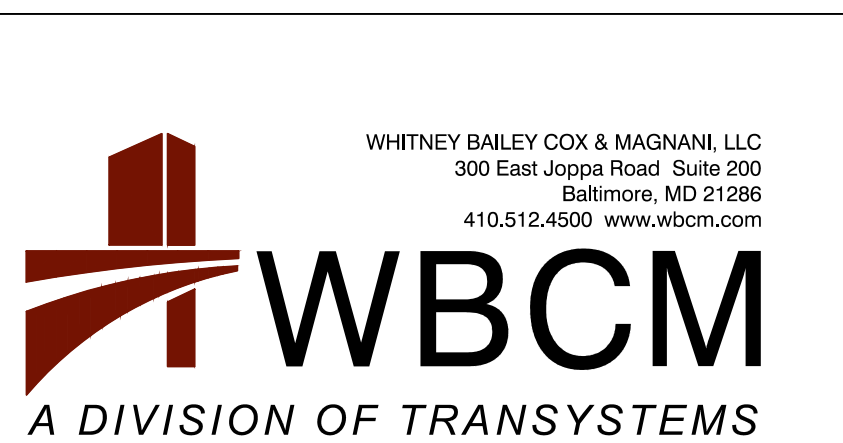
MAINTENANCE SCHEDULE:

AFTER CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE WORK, INSPECTION AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF ANNE ARUNDEL COUNTY.

STORMWATER MAINTENANCE SCHEDULE SUBMERGED GRAVEL WETLANDS

INSPECTION ITEM	FREQUENCY OF INSPECTION	INSPECTION REQUIREMENTS	REMEDIAL ACTION
GRAVEL WETLAND CELLS	SEASONALLY AND AFTER A MAJOR STORM		
VEGETATION	SEASONALLY AND AFTER A MAJOR STORM	FACILITY MUST DEWATER WITHIN 48 HOURS OF RAINFALL. NOTICEABLE GOOBS, STAINED WATER ON THE FILTER SURFACE OR AT THE OUTLET, OR THE PRESENCE OF ALGAE OR AQUATIC VEGETATION ARE INDICATORS OF ANAEROBIC CONDITIONS, AND INADEQUATE DEWATERING OF THE FACILITY.	THE TOP THREE INCHES OF SOIL SHOULD BE REMOVED AND REPLACED WITH SOIL MATERIAL AS PER PLAN SPECIFICATIONS. FOLLOW UP INSPECTIONS MUST CONFIRM ADEQUATE DEWATERING. IF THE FACILITY DOES NOT FUNCTION AS INTENDED AFTER THE ABOVE ACTION, THE ENTIRE FILTER AND UNDERDRAIN SYSTEM MAY NEED MAINTENANCE. MORE APPROVAL MAY BE NECESSARY.
MULCH LAYER	SEASONALLY AND AFTER A MAJOR STORM	CHECK MULCH FOR ADEQUATE COVER, SEDIMENT ACCUMULATION, OR DISCOLORATION.	REPLACE AND REMOVE OLD MULCH AND EXCESS SEDIMENTS. PROVIDE ADEQUATE MULCH COVER ACCORDING TO APPROVED DESIGN.
VEGETATIVE SURFACES	MONTHLY		
PLANT COMPOSITION AND HEALTH	MONTHLY	COMPARE PLANT COMPOSITION WITH APPROVED PLANS. CHECK FOR INVASIVE SPECIES OR WEEDS. CHECK FOR DEAD OR DYING VEGETATION.	REMOVE AND REPLACE PLANTS IN ACCORDANCE WITH PLAN SPECIFICATIONS.
VEGETATIVE COVER AND EROSION	MONTHLY	CHECK FOR EVIDENCE OF EROSION, RUNOFF CHANNELIZING, OR BARE SPOTS.	RE-SEED OR RE-PLANT IN ACCORDANCE WITH APPROVED LANDSCAPING PLANS. RE-GRADING MAY BE REQUIRED WHEN CONCENTRATED FLOW CAUSES RILLS OR GULLING THROUGH THE FACILITY.
DEBRIS AND TRASH CLEANOUT	MONTHLY	CHECK THAT THE FACILITY IS CLEAN OF TRASH AND DEBRIS. INLETS, OUTLETS, AND CONTRIBUTING AREAS AROUND THE FACILITY MUST BE CHECKED.	TRASH AND DEBRIS MUST BE DISPOSED OF IN AN ACCEPTABLE MANNER ACCORDING TO CURRENT REGULATIONS.
STRUCTURAL COMPONENTS	ANNUALLY	CHECK FOR EVIDENCE OF STRUCTURAL DETERIORATION, SPALLING, OR CRACKING. INLET AND OUTLET STRUCTURES MUST BE IN GOOD CONDITION.	REPAIR TO GOOD CONDITION ACCORDING TO SPECIFICATIONS ON THE APPROVED PLANS.
OUTLETS	SEASONALLY AND AFTER A MAJOR STORM	CHECK FOR EVIDENCE OF EROSION, RILLS, OR GULLING. RIPRAP OUTLET MUST BE MAINTAINED IN GOOD FUNCTIONAL CONDITION.	STABILIZE ALL ERODED AREAS AND GRADE TO PROVIDE STABLE CONVEYANCE. REPAIR ACCORDING TO APPROVED PLAN.
PRETREATMENT			
SEDIMENT ACCUMULATION	SEASONALLY AND AFTER A MAJOR STORM	CHECK FOR SEDIMENT ACCUMULATION.	WHEN SEDIMENT ACCUMULATIONS TO A DEPTH OF ONE-HALF THE DESIGN PONDING DEPTH OR COVERS MORE THAN 10% OF THE DESIGN PONDING DEPTH, SEDIMENT MUST BE REMOVED AND THE FACILITY RESTORED ACCORDING TO THE APPROVED DESIGN.
GRASS CHANNEL CONVEYANCE SYSTEMS		CHECK FOR EROSION, FLOW BLOCKAGES, AND STABLE CONVEYANCE.	STABILIZE AND GRADE ACCORDING TO APPROVED PLAN.
OVERALL FUNCTION OF THE FACILITY	ANNUALLY	CHECK THAT FLOW SPLITTERS ARE FUNCTIONING AS DESIGNED AND THAT BYPASS IS OPERATING AS DESIGNED.	CONSTRUCTION MUST BE IN ACCORDANCE WITH APPROVED PLANS.

STORMWATER MAINTENANCE SCHEDULE		
GRASS SWALE		
MONTHLY INSPECTION		
Inspection Item	Inspection Requirements	Remedial Action
Debris and Trash	Check for trash and/or debris.	Dispose of trash and debris in an acceptable manner.
Grass Cover	Grass in swale must be maintained at a height of 4 to 6 inches. Check for channelizing and bare spots.	Mow during the growing season to maintain the required height. Clippings must be removed. Re-plant with topsoil, seed, and matting.
SEASONAL INSPECTION AND AFTER A MAJOR STORM		
Inspection Item	Inspection Requirements	Remedial Action
Sediment Accumulation	Check for accumulated sediment.	When sediment accumulates to 2 inches in depth, remove sediment and dispose of in an acceptable location.
Erosion	Check inflow, channel, outfall, and side slopes for evidence of erosion, rills, gullies, and runoff channelization.	Re-plant with topsoil, seed, and matting. Re-grading may be required when concentrated runoff causes rills or gullying to the facility. Grade, vegetate, and/or armor to provide stable conveyance in accordance with approved plans.
ANNUAL INSPECTION		
Inspection Item	Inspection Requirements	Remedial Action
Maintenance Access	Check for accessibility to facility.	Prevent excessive vegetative growth, erosion, and obstructions on access way.
Overall Function of Facility	Check that flow conveyance is operating as designed	Repair to good condition according to specifications on the approved plans.



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #22734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

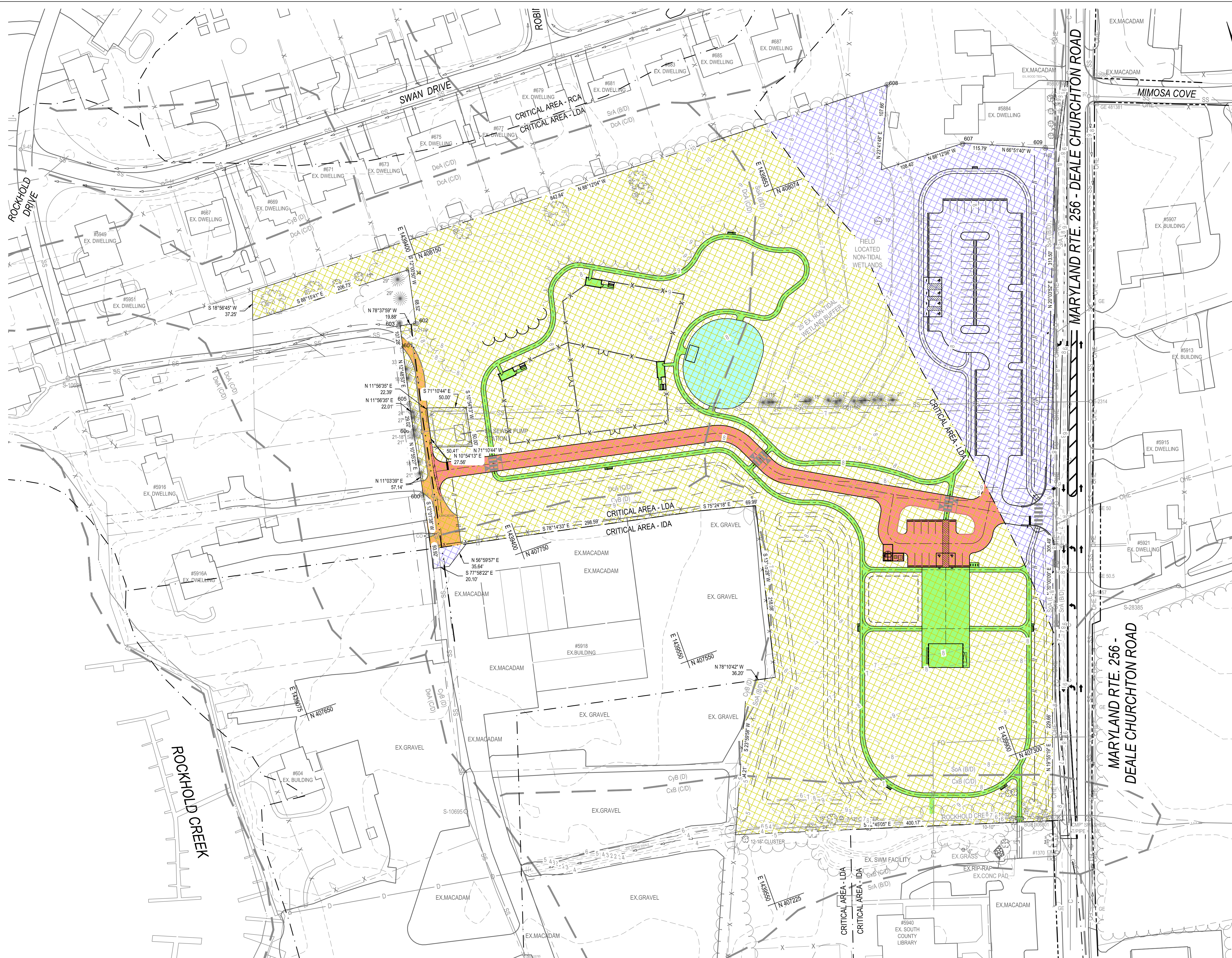
ANNE ARUNDEL COUNTY					
DEPARTMENT OF PUBLIC WORKS					
APPROVED	DATE	APPROVED	DATE	SCALE: AS SHOWN	DEALE COMMUNITY PARK
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: R.S.S.	
APPROVED	DATE	APPROVED	DATE	CHECKED BY: R.W.H.	STORM WATER MANAGEMENT DETAILS
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY		SHEET NO. 21 OF 47	
				PROJECT NO.: P582001	
				CONTRACT NO.: P582001	

BID SET

P:\2017\17141805\Drawings\07-Ste\17141805-CAP-Critical Area Plan.dwg Nov. 07, 2023 11:35am Plot By: remith

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

1"=60'-0"

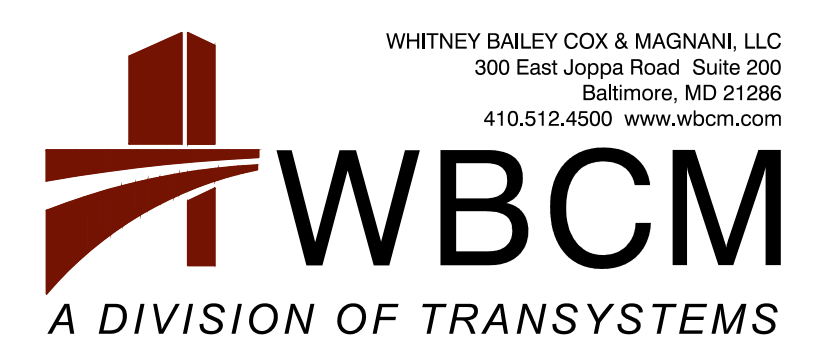


LEGEND	EXISTING	NEW
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM	
BITUMINOUS CONCRETE PEDESTRIAN WALK		
DECIDUOUS / EVERGREEN TREES		
CLEAN OUT		
DRAIN INLET		
ELECTRIC MH		
FIRE HYDRANT		
GAS VALVE		
HAND BOX		
INLET MH		
UTILITY POLE		
SANITARY MH		
SIGN (ONE-POST)		
STORM DRAIN MH		
STREET LIGHT		
TRAVERSE STATION		
BOLLARD		
WATER VALVE		
SPOT ELEVATION		
MAJOR CONTOUR		
MINOR CONTOUR		
WALL		
CONC. CURB		
SURVEY LIMITS		
CHAIN LINK FENCE LINE		
SPLIT RAIL FENCE LINE		
O/H ELECTRIC		
U/G FIBER OPTIC		
U/G GAS		
U/G SANITARY		
U/G STORM		
U/G WATER		
U/G COMMUNICATION		
PROPERTY LINE		
RIGHT OF WAY		
SOIL BORING		
LIMIT OF DISTURBANCE		
SOIL LINES		

AREA DESCRIPTION	AREA SF	AREA ACRES	LEGEND
TOTAL PROPERTY AREA (SF)	524,224	12.03	
PORTION OF PROPERTY WITHIN CRITICAL AREA (LDA)	421,833	9.68	
PORTION OF PROPERTY OUTSIDE CRITICAL AREA	102,391	2.35	
EXISTING ROADS TO REMAIN (SF)	4,215	0.10	
PROPOSED VEHICULAR PAVING (SF)	23,273	0.53	
PROPOSED PEDESTRIAN PAVING (SF)	26,698	0.61	
PROPOSED PLAYGROUND AREA	9,000	0.21	
LOT COVERAGE AREA (SF)	63,186	1.45	
LOT COVERAGE PERCENTAGE	15%		
CRITICAL AREA WOODLAND COVERAGE	65,758	1.5	
EXISTING WOODLAND CLEARING	0% 0		

* NO PROPOSED CLEARING OF WOODS ON THIS PLAN

BID SET



WHITNEY BAILEY COX & MAGNANI LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

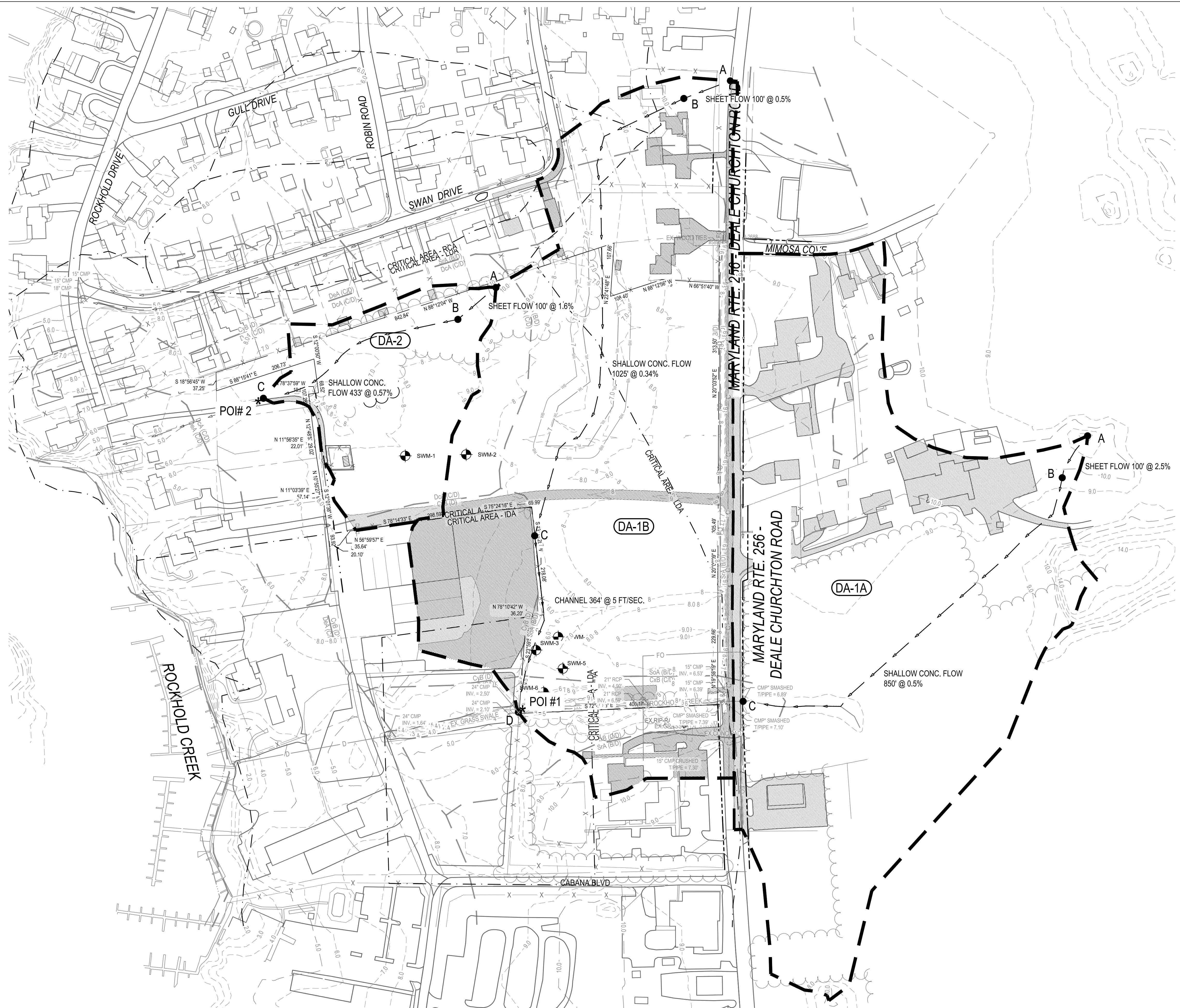
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	

SCALE: 1" = 60'	DEALE COMMUNITY PARK CRITICAL AREA PLAN
DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.	
SHEET NO. 22 OF 47	
PROJECT NO.: P582001	
CONTRACT NO.: P582001	

P:\2017\17141805\Drawings\07-Site\17141805-EX0A-Existing Drainage Area Map.dwg Nov. 07, 2023 11:36am Plot By: rsmith



LEGEND

- EXISTING CONTOUR: 10, 9
- SOILS TYPES: C/B (C/D), S/A (B/D)
- Tc PATH: A, B
- DRAINAGE BOUNDARY: [Symbol]
- POINT OF INTEREST: * POI#
- IMPERVIOUS AREA: [Symbol]

Existing	DA-1A	Open Space	Woods	Impervious	CN	Tc (min.)	Q10 (cfs)
Sq.ft.	660,612	238,541	304,467	117,604	82	25.5	34.5
Acres	15.17	5.48	6.99	2.70			
Existing	DA-1B	Open Space	Woods	Impervious	CN	Tc (min.)	Q10 (cfs)
Sq.ft.	655,259	497,928	25,546	131,785	84	48	25.86
Acres	15.04	11.43	0.59	3.03			
Existing	DA-2	Open Space	Woods	Impervious	CN	Tc (min.)	Q10 (cfs)
Sq.ft.	139,929	78,663	52,614	8,652	80	21.5	7.48
Acres	3.21	1.81	1.21	0.20			

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

1"=100'-0" BID SET

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
A DIVISION OF TRANSYSTEMS

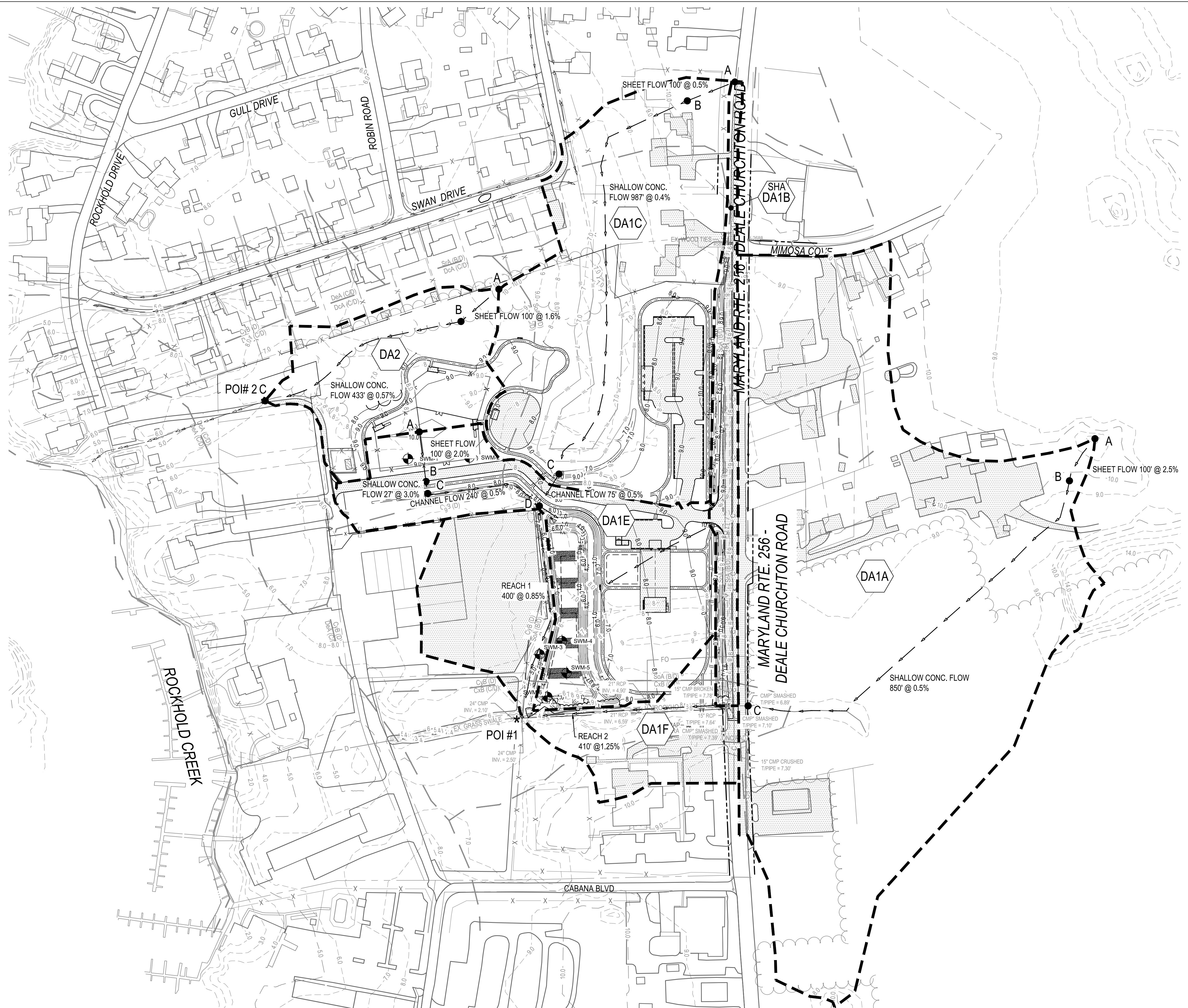
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 100'	DEALE COMMUNITY PARK EXISTING DRAINAGE AREA MAP
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 23 OF 47	
		PROJECT NO.: P582001	
		CONTRACT NO.: P582001	

P:\2017\17141805\Drawings\07-Site\17141805-PRDA-Proposed Drainage Area Map.dwg Nov 07, 2023 - 11:38am Plot By: rsmith



LEGEND

- EXISTING CONTOUR: 10, 9
- PROPOSED CONTOUR: 10, 9
- SOILS TYPES: CxB (C/D), S/A (B/D)
- Tc PATH: A, B
- DRAINAGE BOUNDARY: [Dashed line]
- POINT OF INTEREST: * POI#
- IMPERVIOUS AREA: [Hatched pattern]

Proposed	DA-1A	Open Space	Woods	Impervious	CN	Tc (min.)	Q10 (cfs)
Sq.ft.	660,612	238,541	304,467	117,604	82	25.5	34.5
Acres	15.17	5.48	6.99	2.70			
Proposed	DA-1B SHA	Open Space	Woods	Impervious	RCN	Tc (min.)	Q10 (cfs)
Sq.ft.	50,545	26,395	0	24,150	87	5	5.18
Acres	1.16	0.61	0.00	0.55			
Proposed	DA-1C	Open Space	Woods	Impervious	CN	Tc (min.)	Q10 (cfs)
Sq.ft.	303,435	223,744	15,595	64,096	84	41.7	12.97
Acres	6.97	5.14	0.36	1.47			
Proposed	DA-1E	Open Space	Woods	Impervious	CN	Tc (min.)	Q10 (cfs)
Sq.ft.	186,777	121,320	0	65,457	86	5	18.71
Acres	4.29	2.79	0.00	1.50			

CAUTION: IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.

1"=100'-0"

BID SET

WHITNEY BAILEY COX & MAGNANI LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
A DIVISION OF TRANSYSTEMS

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #22734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

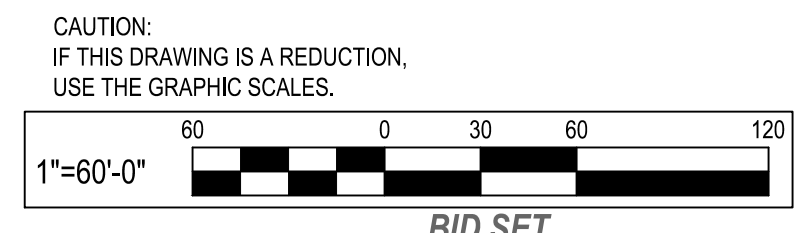

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 100'	DEALE COMMUNITY PARK PROPOSED DRAINAGE AREA MAP
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 24 OF 47	
		PROJECT NO.: P582001	
		CONTRACT NO.: P582001	

P:\2017\17141805\Drawings\07-Site\17141805-WQ-Water Quality Map.dwg Nov. 07, 2023 - 11:41am Plot By: rrmith



LEGEND:

14,395 SQ.FT.		REMOVAL OF IMPERVIOUS AREA
91,120 SQ.FT.		NEW IMPERVIOUS AREA
16,358 SQ.FT.		NEW SHA IMPERVIOUS AREA
17,293 SQ.FT.		REDEVELOPMENT OF IMPERVIOUS AREA
186,313 SQ.FT.		PERVIOUS TO REMAIN
385,765 SQ.FT.		LOD LIMITS OF DISTURBANCE

WBCM
A DIVISION OF TRANSYSTEMS

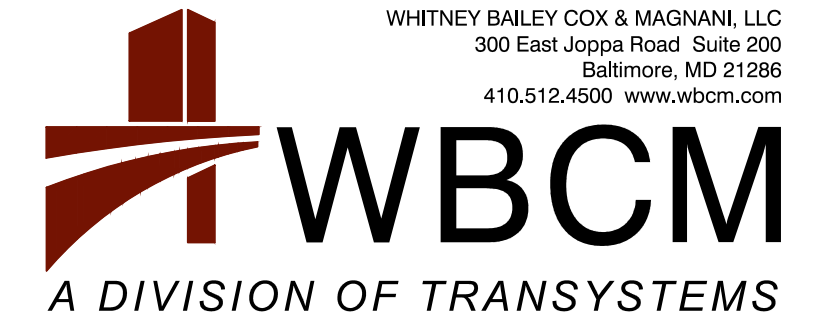
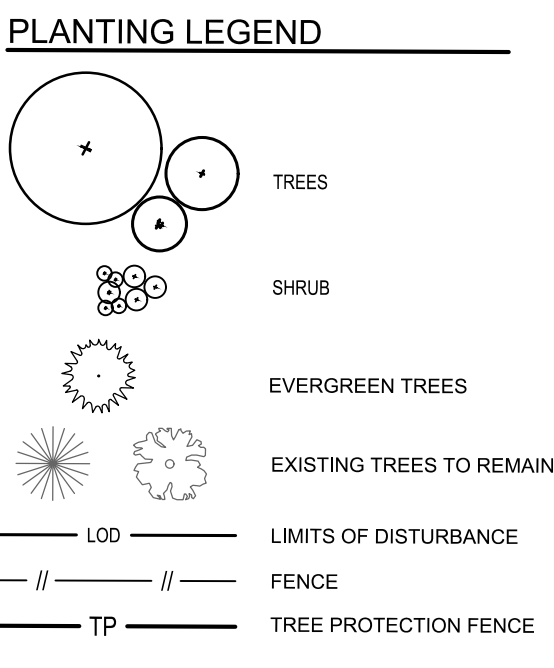
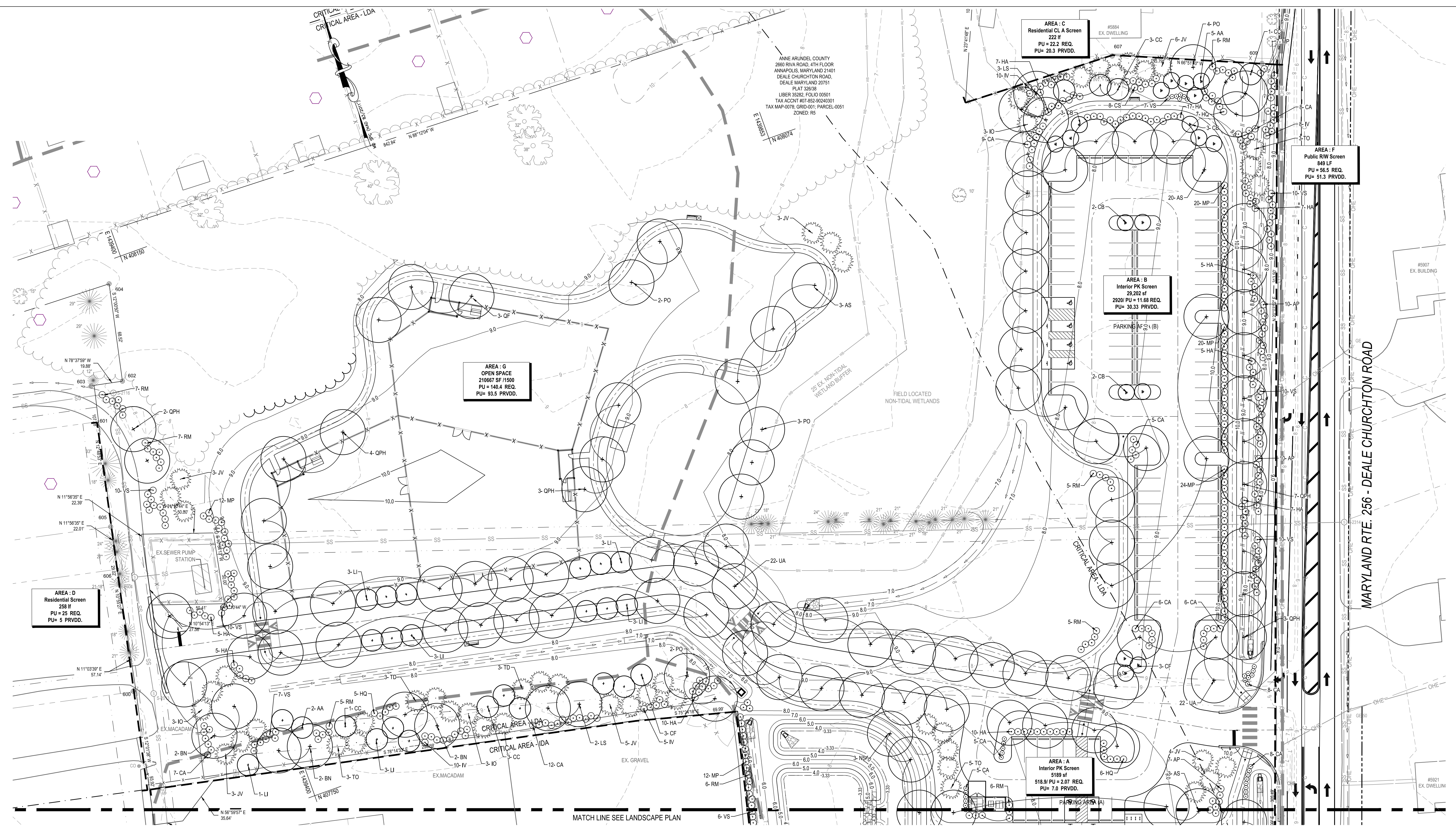
WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 60'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 25 OF 47	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
WATER QUALITY MAP			

P:\2017\17141805\Drawings\07-Site\17141805-C601-Landscape Plan.dwg Nov 07, 2023 - 11:43am Plot By: rsmith

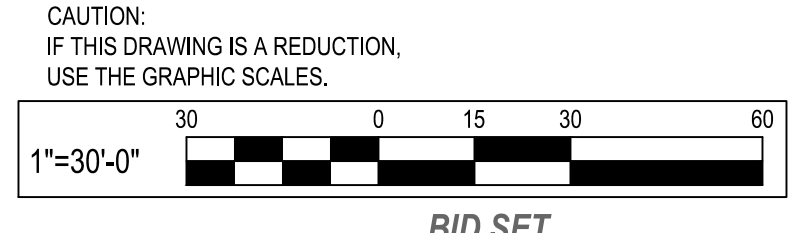


WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

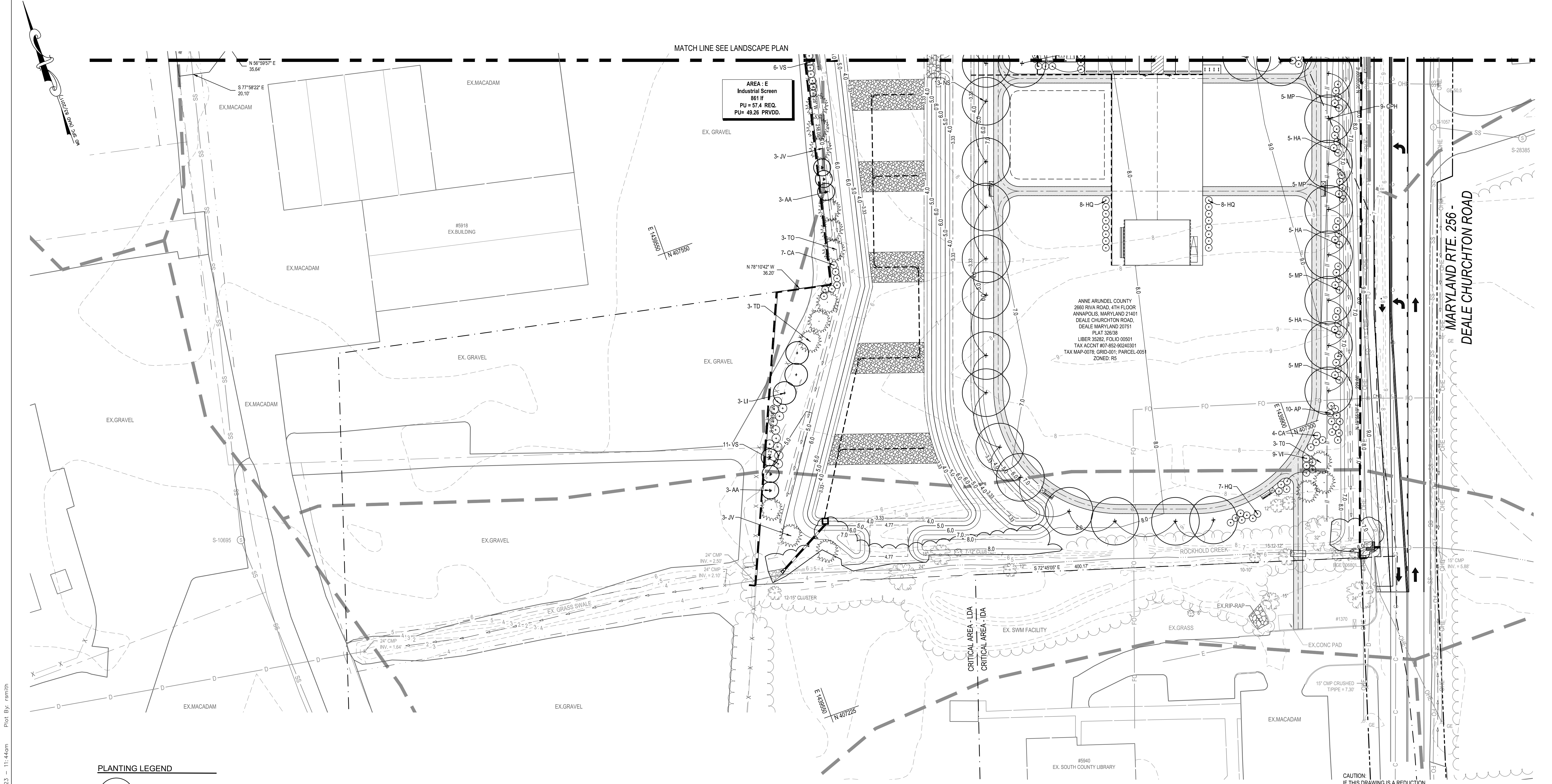
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 30'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 26 OF 47	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
LANDSCAPE PLAN			



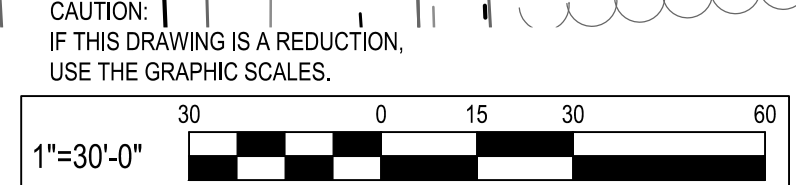
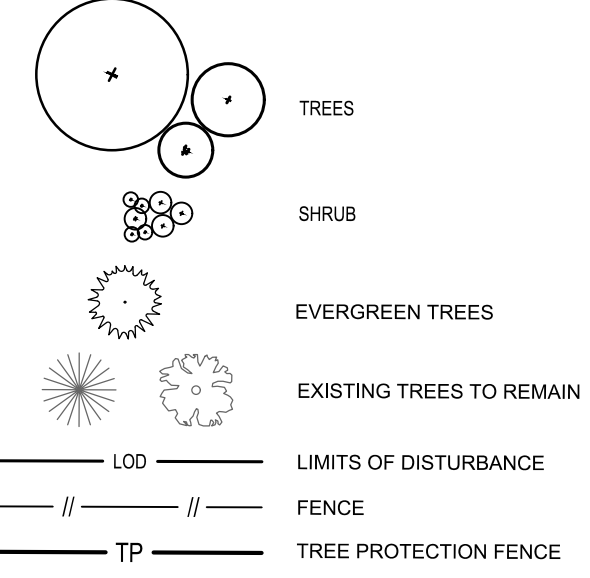
BID SET



AREA - E
Industrial Screen
861 If
PU = 57.4 REQ.
PU = 49.26 PRVDD.

ANNE ARUNDEL COUNTY
2680 RIVA ROAD, 4TH FLOOR
ANNAPOLIS, MARYLAND 21401
DEALE CHURCHTON ROAD,
DEALE MARYLAND 20751
PLAT 32638
LIBER 35382, FOLIO 00501
TAX ACCT #07-852-90240301
TAX MAP-0078, GRID-001, PARCEL-005
ZONED: R5

PLANTING LEGEND



P:\2017\17141805\Drawings\07-Site\17141805-C601-Landscape Plan.dwg Nov 07, 2023 11:44am Plot By: rsmith

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

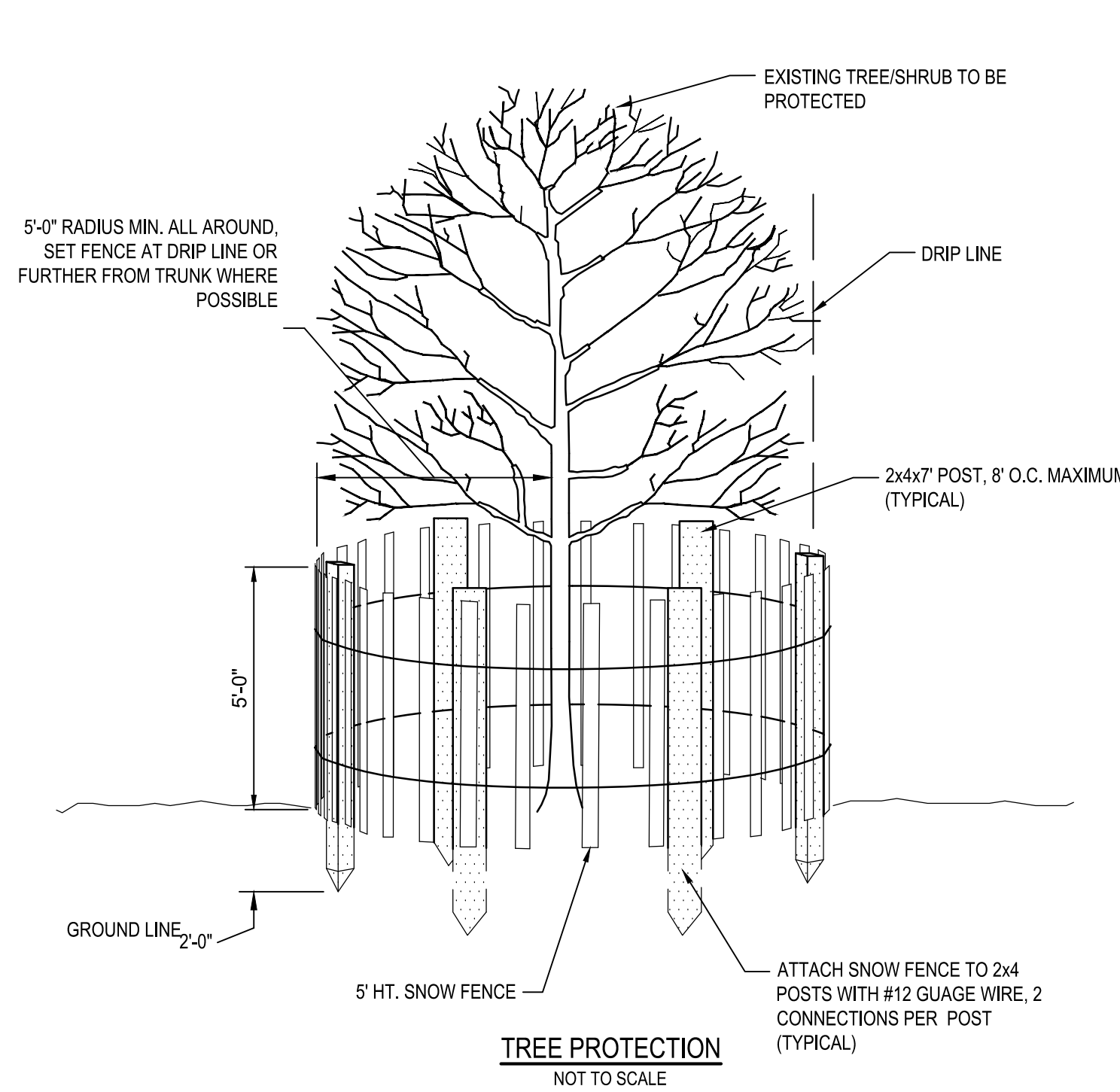
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

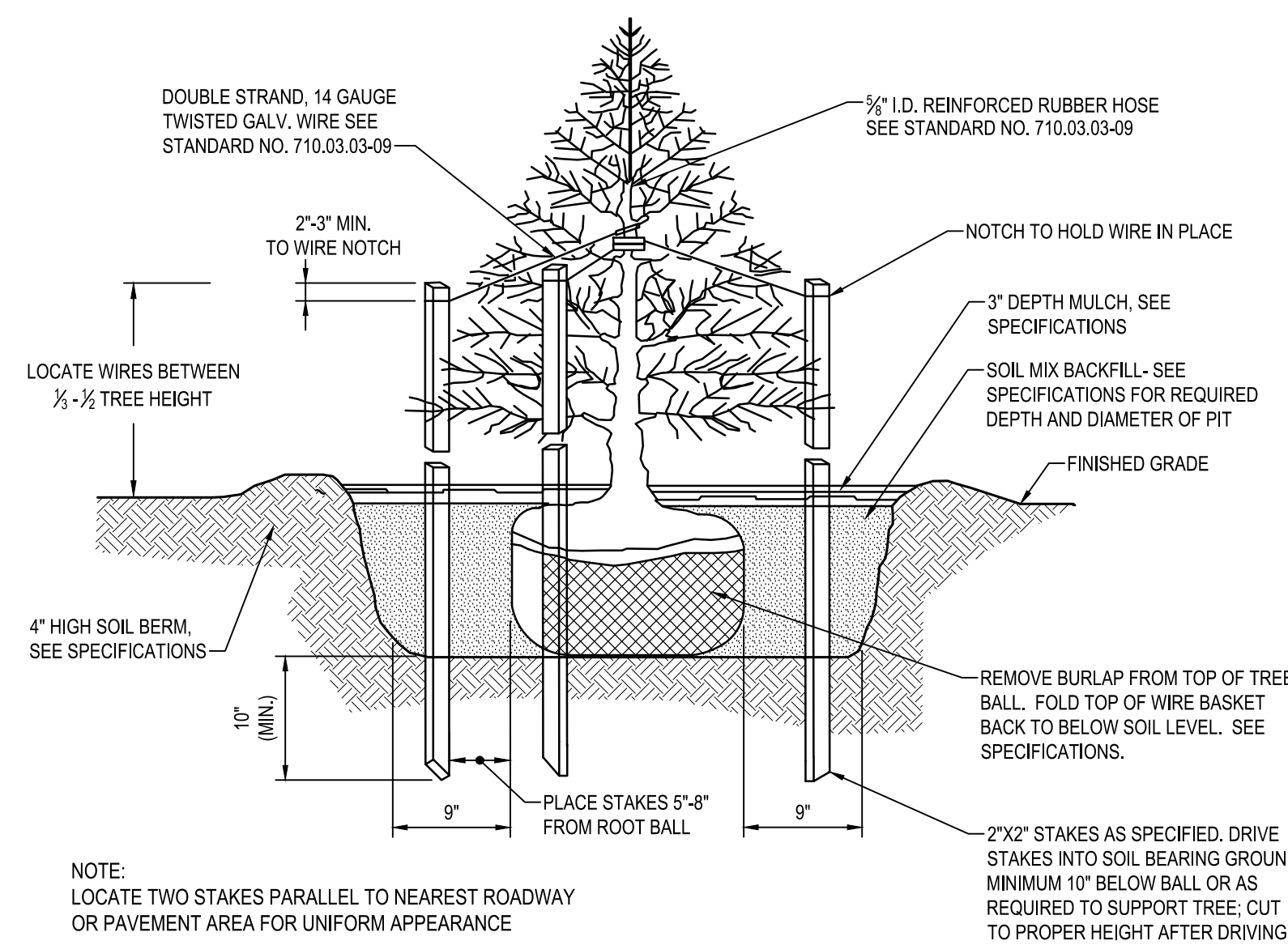
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 30'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 27 OF 47	
PROJECT NO.: P582001		CONTRACT NO.: P582001	

DEALE COMMUNITY PARK
LANDSCAPE PLAN

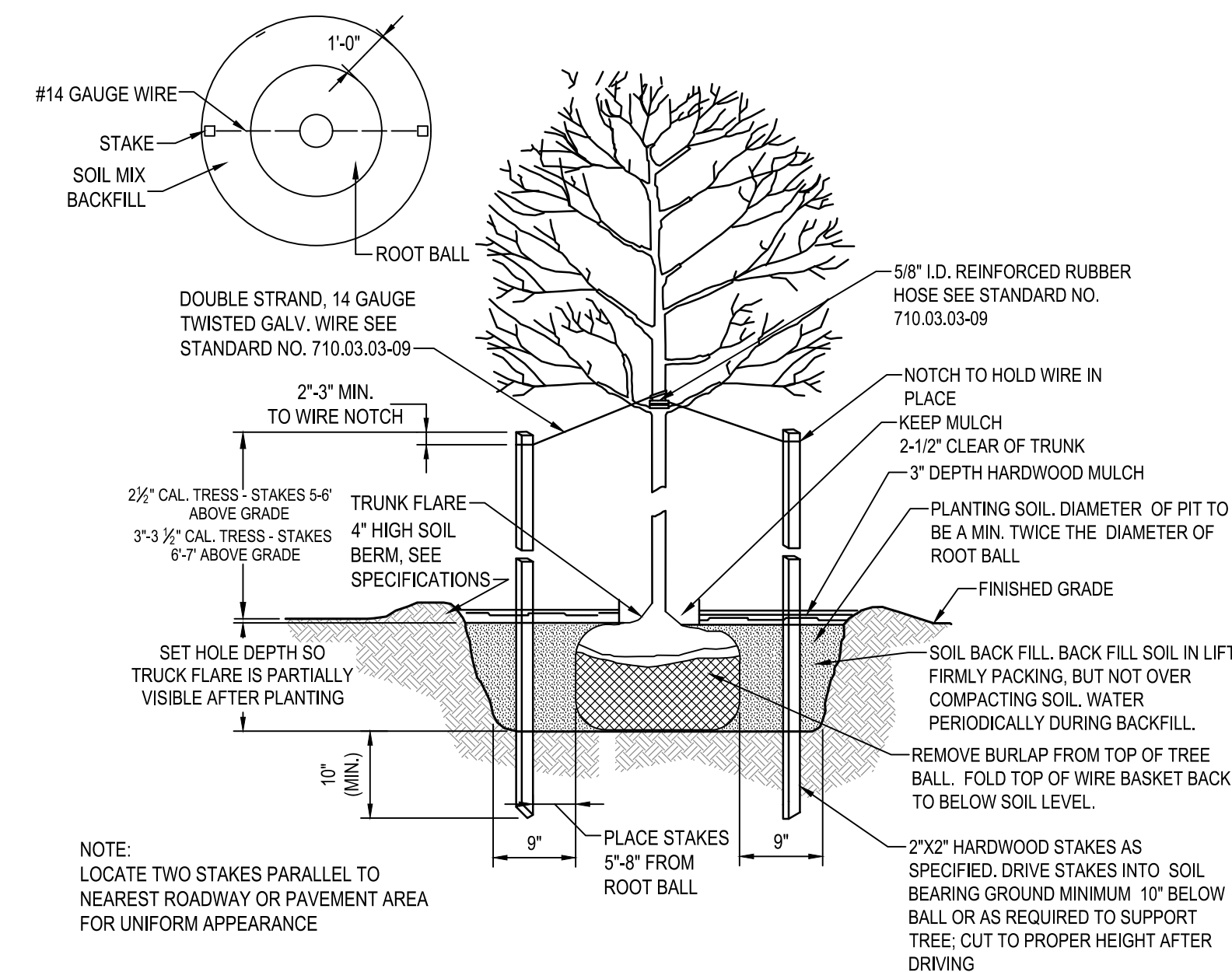
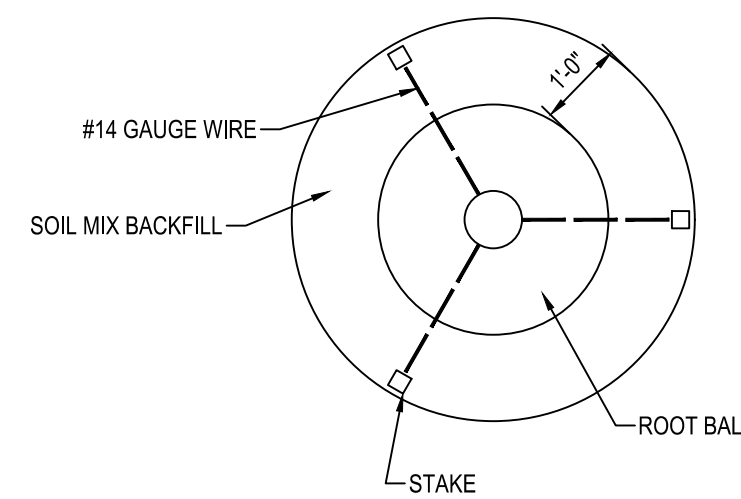
BID SET



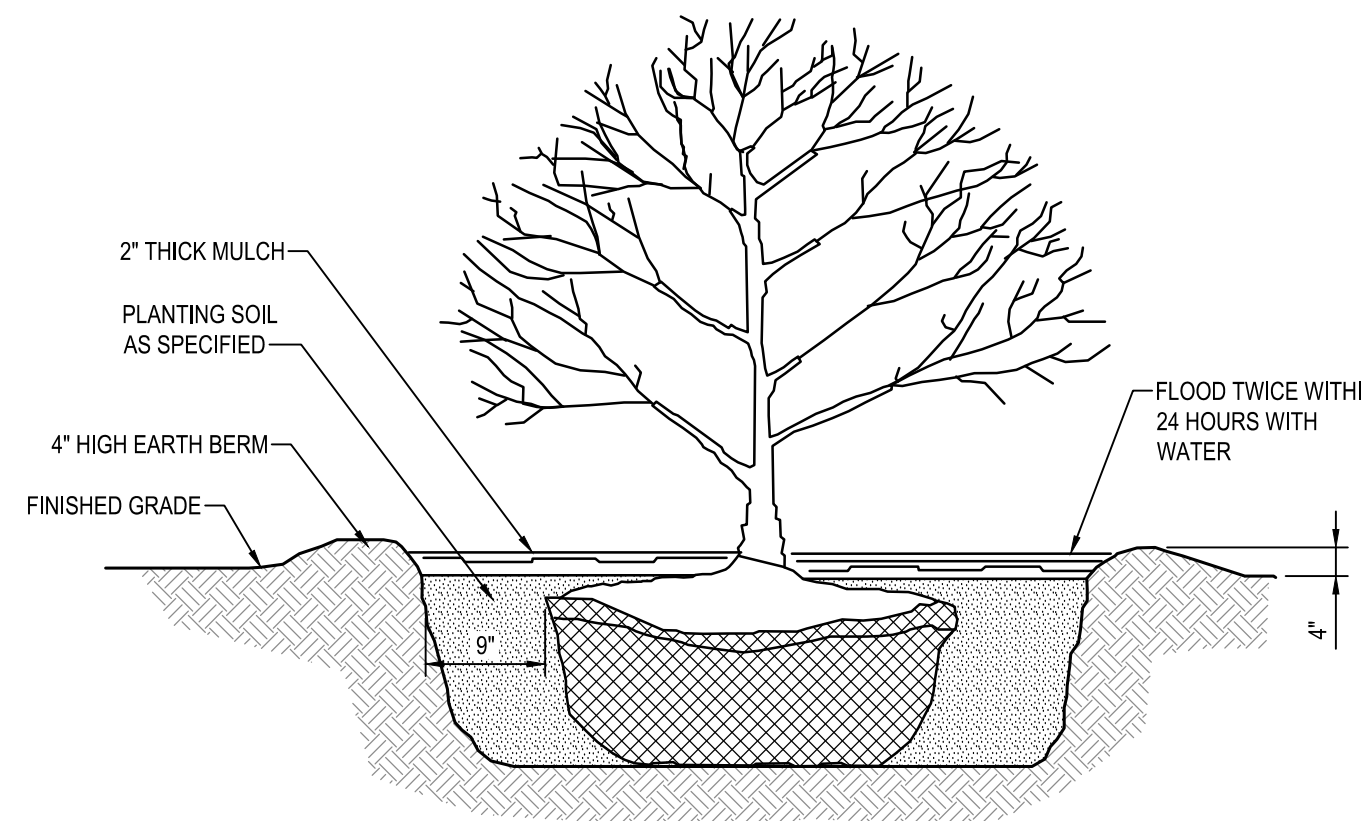
TREE PROTECTION
NOT TO SCALE



EVERGREEN TREE
NOT TO SCALE



DECIDUOUS TREE
NOT TO SCALE



SHRUB
NOT TO SCALE

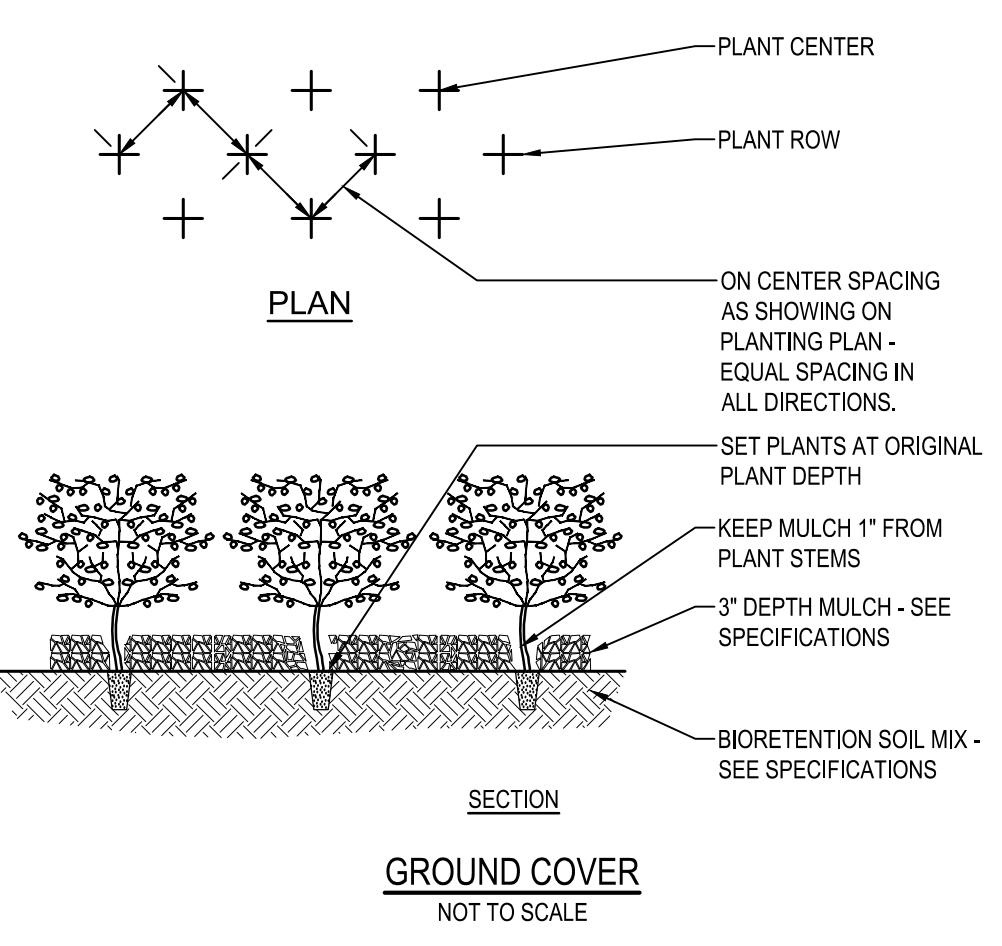
PLANTING UNITS REQUIREMENTS			
Key	Condition	Required Planting Units	Proposed Planting Units
A Interior Parking Lot A	Condition A	10% of Interior to be landscaped	(1 Major Tree 3 Shrubs) = 5.0 PU
	Parking Lot A	1 PU / 250 SF 5189 x 10% = 518.9 SF parking	(3 LG shrubs) = 2.0 PU
		Total Required = 2.07 PU	Total Provided = 7.0 PU
B Interior Parking Lot B	Condition A	10% of Interior to be landscaped	(1 Major Tree 3 Shrubs) = 12PU
	Parking Lot B	1 PU / 250 SF 29,202 x 10% = 2,920.2 SF to be landscaped	(2 Minor Trees 5 Shrubs) = 10/5 PU (3 LG shrubs) = 40/ 13.3PU
		Total Required = 11.68 PU	Total Provided = 30.33 PU
C Residential Screening	Condition A	1 Per 10 LF	(1 Major Tree 3 Shrubs) = 7 PU (2 Minor Trees 5 Shrubs) = 4.5 PU
	NORTH PL Residence	222 LF / 15 = 22.2	(3 Evergreens) = 3.0 PU (3 LG shrubs) = 7.5/2.5 PU
		Total Required = 22.2 PU	Total Provided = 17.0 PU
D Residential Screening	Condition A	1 Per 10 LF	(1 Major Tree 3 Shrubs) = 6 PU (3 Evergreens) = 2.0 PU
	WEST PL Residence	258 LF / 10 = 25.8	(3 LG shrubs) = 15.0 PU
		Total Required = 25.8 PU	Total Provided = 23.0 PU
E Industry Screening	Condition A	1 Per 15 LF	(1 Major Tree 3 Shrubs) = 8 PU (2 Minor Trees 5 Shrubs) = 11.0 PU
	WEST PL @ Marina	861 LF / 15 = 57.4	(3 Evergreens) = 10.6 PU (3 LG shrubs) = 5.3PU
		Total Required = 57.3 PU	Total Provided = 34.9 PU
F ROAD R/W	Condition A	1 Per 15 LF	(1 Major Tree 3 Shrubs) = 20 PU (3 Evergreens) = 2.0 PU
	EAST PL @ ROAD	849 LF / 15 = 56.6	(3 LG shrubs) = 29.3PU
		Total Required = 56.6 PU	Total Provided = 51.3 PU
G OPEN SPACE INTERIOR AREAS	Condition A	1 Per 1500 SF	(1 Major Tree 3 Shrubs) = 74 PU (2 Minor Trees 5 Shrubs) = 7.5 PU
	INTERIOR PLANTINGS	210667 SF / 1500 = 140.4 PU	(3 Evergreens) = 1.0PU (3 LG shrubs) = 11.0 PU
		Total Required = 140.4 PU	Total Provided = 95.1 PU
H Dumpster Screening	Condition A	1 Per 15 LF	(1 Major Tree 3 Shrubs) = 1 PU (3 Evergreens) = 1.6 PU
	Parking Lot B	32 LF / 15 = 2.13	(3 LG shrubs) = 2.60 PU
		Total Required = 2.13	Total Provided = 5.2
		Total Required = 318.18 PU	Total Provided = 263.83

PLANT SCHEDULE						
Qty.	SYM.	Botanical Name	Common Name	Size (Min.)	Root	Remarks
Major Deciduous Trees						
26	AS	Acer saccharum 'Legacy'	Sugar Maple Legacy	2.5' Cal.	B&B	As Shown
6	BN	Betula nigra	River Birch	2.5' Cal.	B&B	As Shown
5	LS	Liquidambar styraciflua	Sweet Gum	2.5' Cal.	B&B	As Shown
16	NS	Nyssa sylvatica 'Wildfire'	Black Tupelo	2.5' Cal.	B&B	As Shown
11	PO	Platanus occidentalis	American Sycamore	2.5' Cal.	B&B	As Shown
30	QPH	Quercus phellos	Willow Oak	2.5' Cal.	B&B	As Shown
44	UA	Ulmus americana 'Delaware'	Delaware Americana Elm	2.5' Cal.	B&B	As Shown
Minor Deciduous Trees						
33	AA	Amelanchier arborea	Downy Serviceberry	1-1/2' Cal.	B&B	As Shown
10	CB	Carpinus betulus 'Fastigiata'	European Hornbeam	1-1/2' Cal.	B&B	As Shown Limbed up to 6'
8	CC	Cercis canadensis	Eastern Redbud	1-1/2' Cal.	B&B	Multistem
6	CF	Cornus florida	Flowering Dogwood	1-1/2' Cal.	B&B	As Shown
19	LI	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	1-1/2' Cal.	B&B	As Shown
Evergreen Trees						
9	ID	Ilex opaca 'Jersey Princess'	American Holly	8-10' Hgt.	B&B	As Shown
24	JV	Juniperus virginiana 'Canaertii'	Eastern Red Cedar	10-12' Hgt.	B&B	As Shown
17	TD	Taxodium distichum	Bald cypress	8-10' Hgt.	B&B	As Shown
12	TO	Thuja occidentalis	Eastern Arborvitae	8-10' Hgt.	B&B	As Shown
Shrubs						
37	AP	Asclepias parviflora	Bottlebrush Buckeye	#7	Cont.	3' O.C.
73	CA	Clethra alnifolia 'Hummingbird'	Summersweet	#3	Cont.	3' O.C.
19	CS	Cornus sericea 'Bailey'	Red Twig Dogwood	#5	Cont.	6' O.C.
93	HA	Hydrangea aborsocens 'Annabelle'	Smooth Hydrangea	#5	Cont.	di
41	HQ	Hydrangea quercifolia 'Ruby Slippers'	Oakleaf Hydrangea	#5	Cont.	di
43	IV	Ilex verticillata	Winterberry Holly	#5	Cont.	6' O.C.
9	IV	Ilex verticillata 'Southern Gentleman'	Winterberry Holly	#5	Cont.	6' O.C. 1 male per 7
60	VS	Itea virginica 'Henry's Gamel'	Virginia Sweetspire	#3	Cont.	3' O.C.
115	MP	Myrica pensylvanica	Northern Bayberry	#5	Cont.	5' O.C.
40	RM	Rhododendron maximum	Rosebay Rhododendron	3-4' Hgt.	Cont.	5' O.C.
530 Total						

GENERAL NOTES:

- ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "AMERICAN STANDARDS FOR NURSERY STOCK, ANSI Z60.1-2004" LATEST EDITION PREPARED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, 230 SOUTHERN BUILDING, WASHINGTON, DC, 20005.
- CONTRACTOR MUST VERIFY THE CORRECT LOCATION OF ANY EXISTING UTILITIES WHICH ARE UNDERGROUND, PRIOR TO PLANT INSTALLATION. THE CONTRACTOR SHALL CALL MISS UTILITY (1-800-257-7777) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND REQUIREMENTS FOR CONSTRUCTION.
- ALL PLANT BEDS SHALL BE MULCHED WITH A MINIMUM OF 2" AND A MAXIMUM OF 3" LAYER OF MULCH WITHIN TWO DAYS AFTER PLANTING. THIS SHALL BE SHREDDED HARDWOOD BARK, AND SHALL COVER ENTIRELY THE PLANTING BED.
- ALL PLANTS SHALL BE GUARANTEED TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF TWO FULL YEARS AFTER INITIAL ACCEPTANCE. ANY REPLACEMENT PLANTS, REQUIREMENTS, ETC. AND METHOD OF PLACING SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN AND ON THE DRAWINGS.
- EXISTING SOIL IN BED AREAS SHALL BE AMENDED TO A DEPTH OF 12". SOIL MIX IN ALL BEDS SHALL BE 2/3 EXISTING SOIL, AND 1/3 ORGANIC MATERIAL SUCH AS LEAFGRO.
- PLANT MATERIAL AVAILABILITY MAY VARY AT THE TIME OF CONSTRUCTION. ANY SUBSTITUTIONS ARE TO BE OF EQUIVALENT TYPE AND SIZE (OR LARGER), AND MUST BE APPROVED BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.
- WHERE THE CONDITION EXISTS THAT BALLED AND BURLAPPED TREES ARE DELIVERED IN WIRE BASKETS, THE WIRE BASKETS SHALL BE CUT DOWN THE SIDE OF EACH MESH AND PEEL AWAY FROM THE ROOTBALL OR REMOVED IN ENTIRETY. NO PORTION OF THE WIRE BASKET SHALL REMAIN INTACT AROUND THE SIDES OF THE ROOTBALL OR EXTEND ABOVE FINISHED GRADE.
- ANY DAMAGE TO THE EXISTING UTILITIES, BUILDINGS, PAVING, CURB, WALLS, AND VEGETATION (NOT SO DESIGNATED FOR REMOVAL ON THESE PLANS) SHALL BE REPAIRED TO PREVIOUS CONDITION OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL AREAS DISTURBED DURING CONSTRUCTION ARE TO BE SEED UNLESS NOTED OTHERWISE.
- ADJUST TREE LOCATIONS IN THE FIELD IF LOCATIONS SHOWN CONFLICT WITH EXISTING VEGETATION NOT PICKED UP IN SURVEY.
- SEED DISTURBED AREAS.

BID SET



GROUND COVER
NOT TO SCALE

MINIMUM LANDSCAPE MAINTENANCE REQUIREMENTS:

- LAWN AREAS SHALL BE MOWED TO A HEIGHT OF 2 TO 3 INCHES AND NOT ALLOWED TO REACH A HEIGHT OF 4 INCHES BEFORE MOWING.
- ALL CURBS AND WALKS SHALL BE EDGED AS NEEDED.
- ALL LAWN AREAS ADJACENT TO BUILDING FACES OR STRUCTURES SHALL BE TRIMMED.
- A SLOW RELEASE NITROGEN BALANCED FERTILIZER WITH A 2-1-1 RATIO SHALL BE APPLIED AT A RATE OF 2 POUNDS OF NITROGEN PER 1000 SQUARE FEET IN SEPTEMBER, OCTOBER, AND FEBRUARY.
- LIME SHALL BE APPLIED AT THE RATE DETERMINED BY A SOILS REPORT.
- IT IS RECOMMENDED THAT LAWN AREAS BE TREATED IN MID-MARCH TO EARLY APRIL WITH PER-EMERGENT HERBICIDE (BETASAN) OR EQUAL APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE.
- A POST-EMERGENT HERBICIDE (TRIMEQ) OR EQUAL IS RECOMMENDED TO BE SPRAYED ON LAWN AREAS IN THE LATE SPRING OR THE EARLY FALL. FOLLOW MANUFACTURER'S RATES AND RECOMMENDATIONS.
- INSECTICIDES AND FUNGICIDES ARE RECOMMENDED FOR INSECT AND DISEASE CONTROL.
- RESEED BARE AREAS OF LAWN AS NECESSARY. YEARLY AERATION IS RECOMMENDED.
- ALL TRASH, LITTER, AND DEBRIS SHALL BE REMOVED FROM LAWN AREAS, PARKING LOTS, AND SHRUB BEDS AS NEEDED.
- MULCH ALL SHRUB AND GROUND COVER BEDS YEARLY WITH 3 INCHES OF HARD WOOD BARK.
- PERMIT SHRUBS AND TREES TO GROW AND ENLARGE TO THEIR DESIGN SIZE. CONSULT PROJECT LANDSCAPE ARCHITECT FOR DETAILS.
- PRUNE TREES IN ACCORDANCE WITH LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METRO-POLITAN AREAS.

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
A DIVISION OF TRANSYSTEMS

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

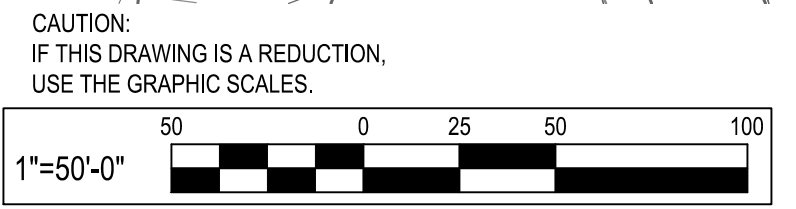
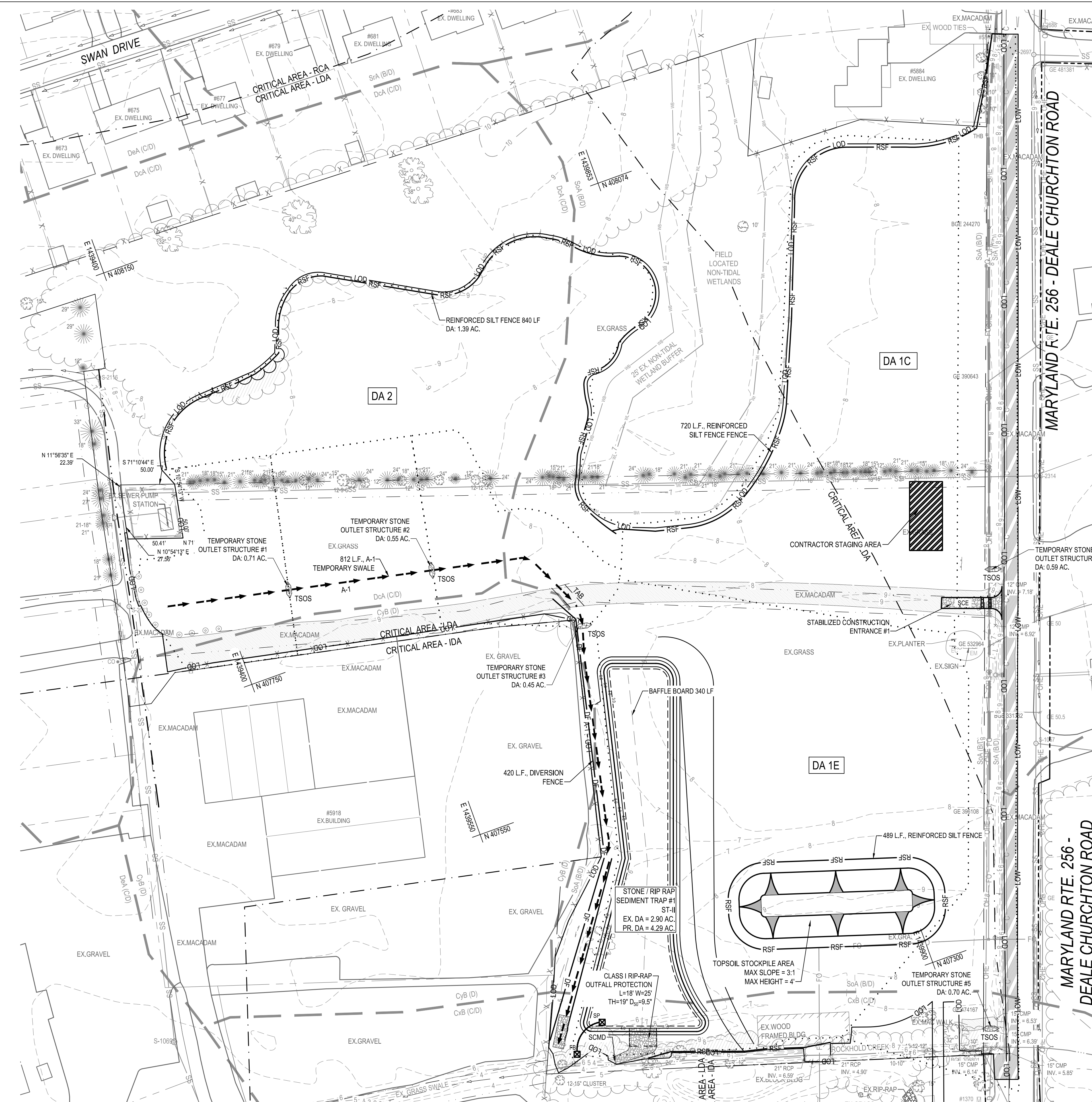
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS SHOWN
CHIEF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY	SHEET NO. 28 OF 47
		PROJECT NO.: P582001
		CONTRACT NO.: P582001

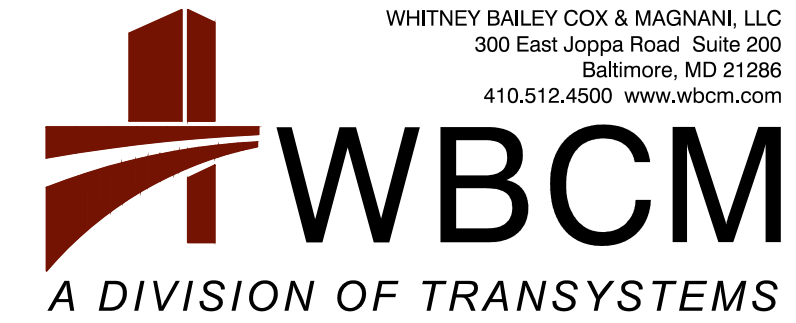
DEALE COMMUNITY PARK

LANDSCAPE NOTES AND DETAILS

P:\2017\17141805\Drawings\07-Stationing and Sediment Control Plan-Phase #1.dwg Nov 05, 2023 12:25pm Plot By: rmlth



CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.



WHITNEY BAILEY COX & MAGNANI LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

TSWM (ON-SITE DA)							
POI	PRE-DEVELOPMENT CONDITION			INTERIM CONDITION			
	DA	DISTURBED DA AC.	PRE-DEV. Q _i	DA	DISTURBED DA AC.	INTERIM Q _i	PROPOSED ESC PRACTICE
POI 1	DA 1	7.364	3.77 CFS	DA 1C	3.176	4.55 CFS	SHEET FLOW TO RSF
POI 2	DA 2	1.492	1.33 CFS	DA 2	1.390	2.66 CFS	SHEET FLOW TO RSF

SEDIMENT CONTROL LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- LIMITS OF DISTURBANCE
- LIMITS OF WORK (NO EARTH DISTURBANCE)
- REINFORCED SILT FENCE
- SUPER SILT FENCE ON PAVEMENT
- TEMPORARY CONSTRUCTION FENCE
- DIVERSION FENCE
- TREE PROTECTION FENCE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPERTY BOUNDARY
- AT GRADE INLET PROTECTION
- STANDARD INLET PROTECTION
- COMBINATION INLET PROTECTION
- TEMPORARY STOCKPILE AREA
- CONTRACTOR STAGING AREA
- FILTER BAG
- SUMP PIT
- FILTER LOG
- TEMPORARY SWALE
- TEMPORARY STONE OUTLET STRUCTURE
- SAME DAY STABILIZATION
- TEMPORARY ASPHALT BERM

NOTE FOR SAME DAY STABILIZATION

CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY.
STABILIZATION SHALL BE AS FOLLOWS:
1) FOR AREAS TO BE PAVED, THE APPLICATION OF STONE BARE.
2) FOR AREAS TO BE VEGETATIVELY STABILIZED:
A) PERMANENT SEED AND SOIL STABILIZATION MATTING OR SOD FOR ALL STEEP SLOPES, CHANNELS OR SWALES.
B) PERMANENT SEED AND MULCH FOR OTHER AREAS.
ANY AREAS WHICH CANNOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWNSLOPE SIDE.

UTILITY NOTE

1) CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWNSLOPE) OF THE TRENCH.
2) PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.
3) ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

MAINTENANCE NOTE:

CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL MEASURES AND DEVICES AFTER EVERY STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO THE REMOVAL OF ALL ACCUMULATED SEDIMENT. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

THE CONTRACTOR IS RESPONSIBLE FOR PUMPING ALL STANDING WATER THROUGH A FILTERING DEVICE TO A CLEAR WATER OUTFALL WITHIN 24 HOURS OF A STORM EVENT.

SEQUENCE OF CONSTRUCTION:

- INITIAL PHASE**
- PRE-CONSTRUCTION MEETING: NOTIFY THE DEPARTMENT OF INSPECTIONS AND PERMITS, (410-222-7780), RECREATION AND PARKS CONTACT ERICA JACKSON (410-222-2866) 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. THE PERMITTEE OR CONTRACTOR SHALL NOT COMMENCE WITH CLEARING OR ANY EARTH DISTURBANCE ACTIVITIES ON THE SITE DURING OR BEFORE PREDICTED WET WEATHER EVENTS. ONCE SITE WORK BEGINS, CLEARING AND GRUBBING ACTIVITIES SHALL BE FOR THE INSTALLATION AND STABILIZATION OF THE PERIMETER EROSION CONTROL MEASURES ONLY.
 - CONTRACTOR SHALL LOCATE AND PROCURE ALL STAGING AND STOCKPILING AREAS WHICH SHALL BE APPROVED BY THE PROJECT INSPECTOR.
 - PRESENT FINALIZED SCHEDULE OF WORK AND MAINTENANCE OF TRAFFIC OPERATIONS TO THE ENGINEER AND ANNE ARUNDEL COUNTY INSPECTIONS AND PERMITS DIVISION.
 - THE EXISTING MACADAM ROAD SERVING THE ADJACENT PROPERTIES LOCATED TO THE WEST OF THE SITE SHALL BE MAINTAINED DURING CONSTRUCTION.
 - CLEAR MINIMUM AREAS NECESSARY FOR INSTALLATION OF SEDIMENT AND EROSION PERIMETER CONTROLS, INCLUDING STABILIZED CONSTRUCTION ENTRANCE, REINFORCED SILT FENCE, DIVERSION FENCE, AND TEMPORARY SWALE WITH TEMPORARY STONE OUTLET STRUCTURES PER PLAN.
 - BUILD STAGING AND STOCKPILE AREAS AND INSTALL SEDIMENT RAP. INSTALL SEDIMENT TRAP #1 WITH SEDIMENT CONTROL MONITORING DEVICE.
 - INSTALL REMAINING SEDIMENT CONTROL DEVICES AS REQUIRED PER THE PLANS. CONTACT THE INSPECTOR FOR APPROVAL OF THE SEDIMENT CONTROL INSTALLATION. INSPECTION AND PERMITS WILL BE REQUIRED THAT AN INSPECTION AND CERTIFICATION OF THE INSTALLATION OF THE SEDIMENT CONTROLS BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION COMMENCING.
 - BUILD STAGING AND STOCKPILE AREAS. OBTAIN APPROVAL FROM THE COUNTY SEDIMENT AND EROSION CONTROL INSPECTOR.
 - BEGIN PAVEMENT REMOVAL AND MASS GRADING OF PROPOSED GRASS PLAYING FIELD.
 - INSTALL REMAINING TEMPORARY STONE OUTLET STRUCTURES PER PLANS.
 - PERFORM THE FOLLOWING SEQUENCE FOR EACH DAY OF UTILITY CONSTRUCTION OPERATIONS:
 - CONTRACTOR TO ONLY DISTURB THE AREA THAT WILL BE STABILIZED THE SAME DAY.
 - INSTALL REINFORCED SILT FENCE DOWNGRADE OF AREA TO BE WORKED ON A DAILY BASIS.
 - INSTALL TEMPORARY PAVING OR, PLACE TOPSOIL, FINE GRADE, SEED AND APPLY MULCH IN UNPAVED DISTURBED AREAS.
 - STREETS ARE TO BE SWEEP FREE OF DIRT AND DEBRIS.

DETAIL G-1-2 STONE/RIPRAP OUTLET SEDIMENT TRAP ST-II

	TRAP NO	1
DRAINAGE AREA - INITIAL	2.90	ACRES
DRAINAGE AREA - INTERIM	4.29	ACRES
DRAINAGE AREA - FINAL	4.29	ACRES
TOTAL STORAGE REQUIRED	15,444	CF
TOTAL STORAGE PROVIDED	21,173	CF
WET STORAGE REQUIRED	7,722	CF
WET STORAGE PROVIDED	11,711	CF
DRY STORAGE REQUIRED	7,722	CF
DRY STORAGE PROVIDED	9,462	CF
EXISTING GROUND ELEVATION AT OUTLET (WET STORAGE ELEVATION)	4.00	FT
TRAP BOTTOM ELEVATION	3.33	FT
TRAP BOTTOM DIMENSIONS	326 x 51	(L) FT X (W) FT
WEIR LENGTH	25.00	FT
WEIR CREST (DRY STORAGE) ELEVATION	4.50	FT
CLEANOUT ELEVATION	4.00	FT
TOP OF EMBANKMENT ELEVATION	6.00	FT
SIDE SLOPE	3:1	H:V RATIO
EMBANKMENT TOP WIDTH	3	FT
OUTLET PROTECTION-LENGTH	18	FT
OUTLET PROTECTION-DEPTH	19	IN

STANDARD STABILIZATION NOTE:

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO 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 (7) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

MAINTENANCE OF SEDIMENT CONTROL

CONTRACTOR SHALL WITHOUT EXTRA COST TO THE PROJECT, REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN LIMITS OF CONSTRUCTION ARE STABILIZED. ALL SEDIMENT CONTROL MEASURES REFERRED TO ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".

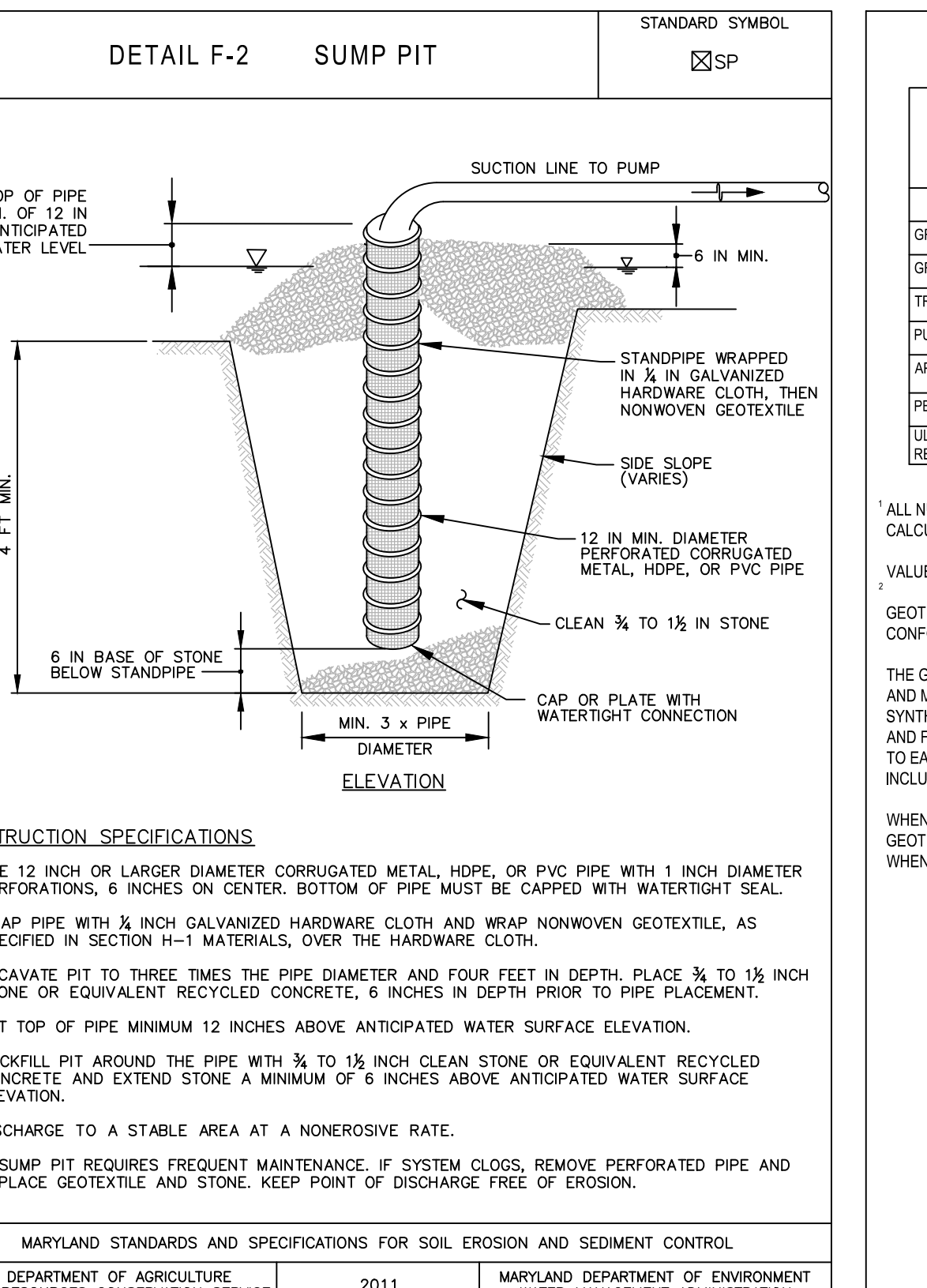
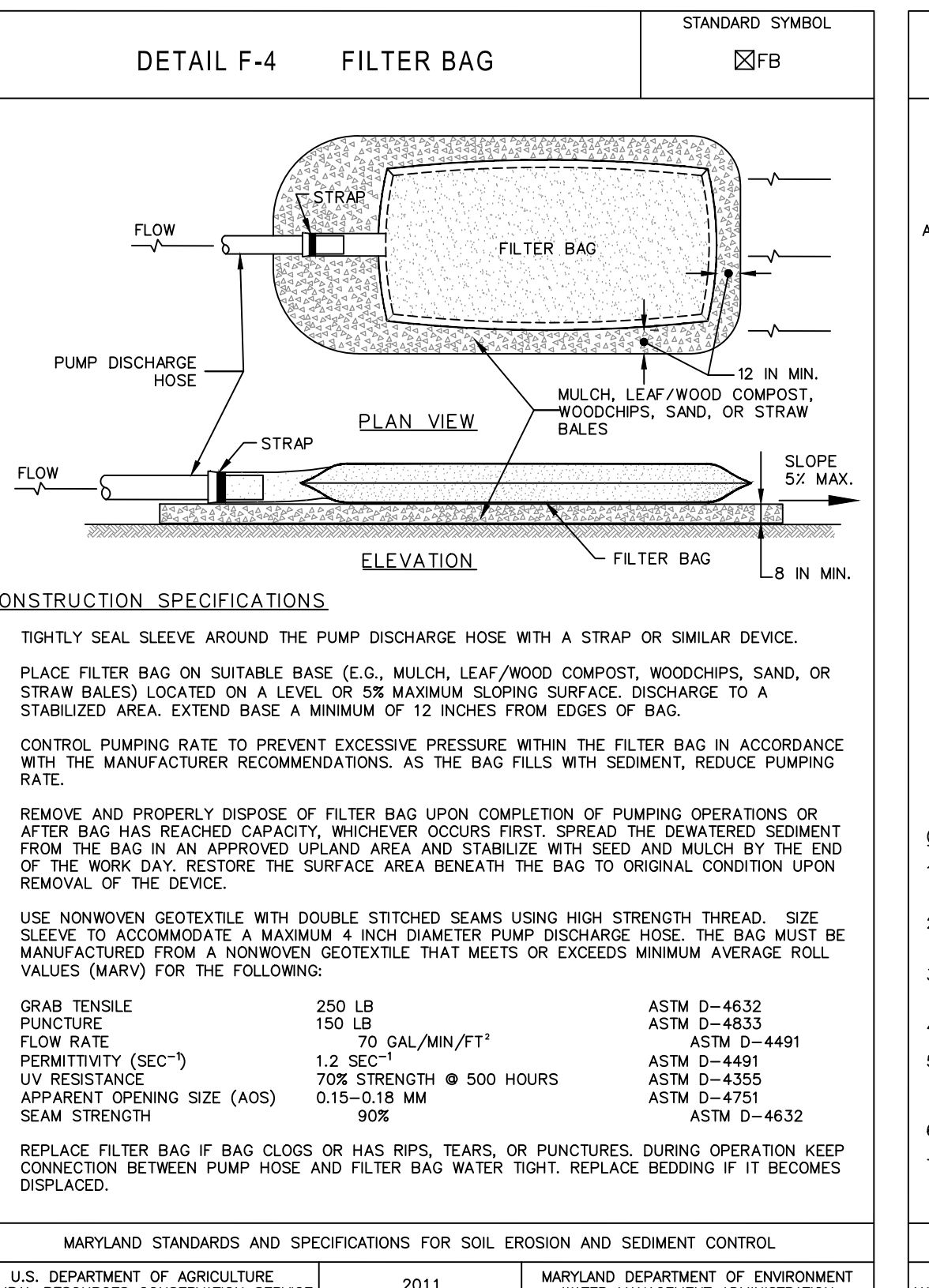
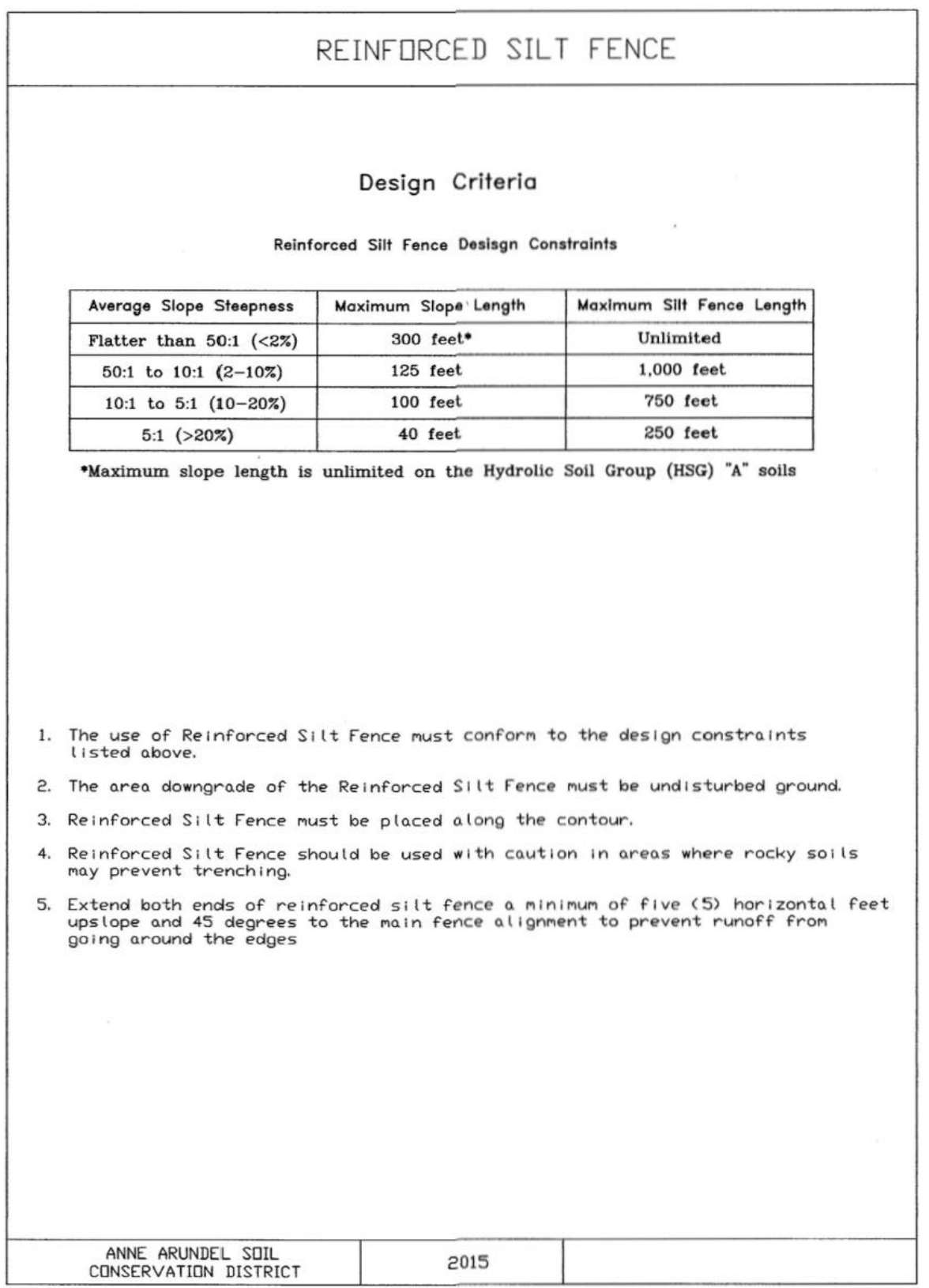
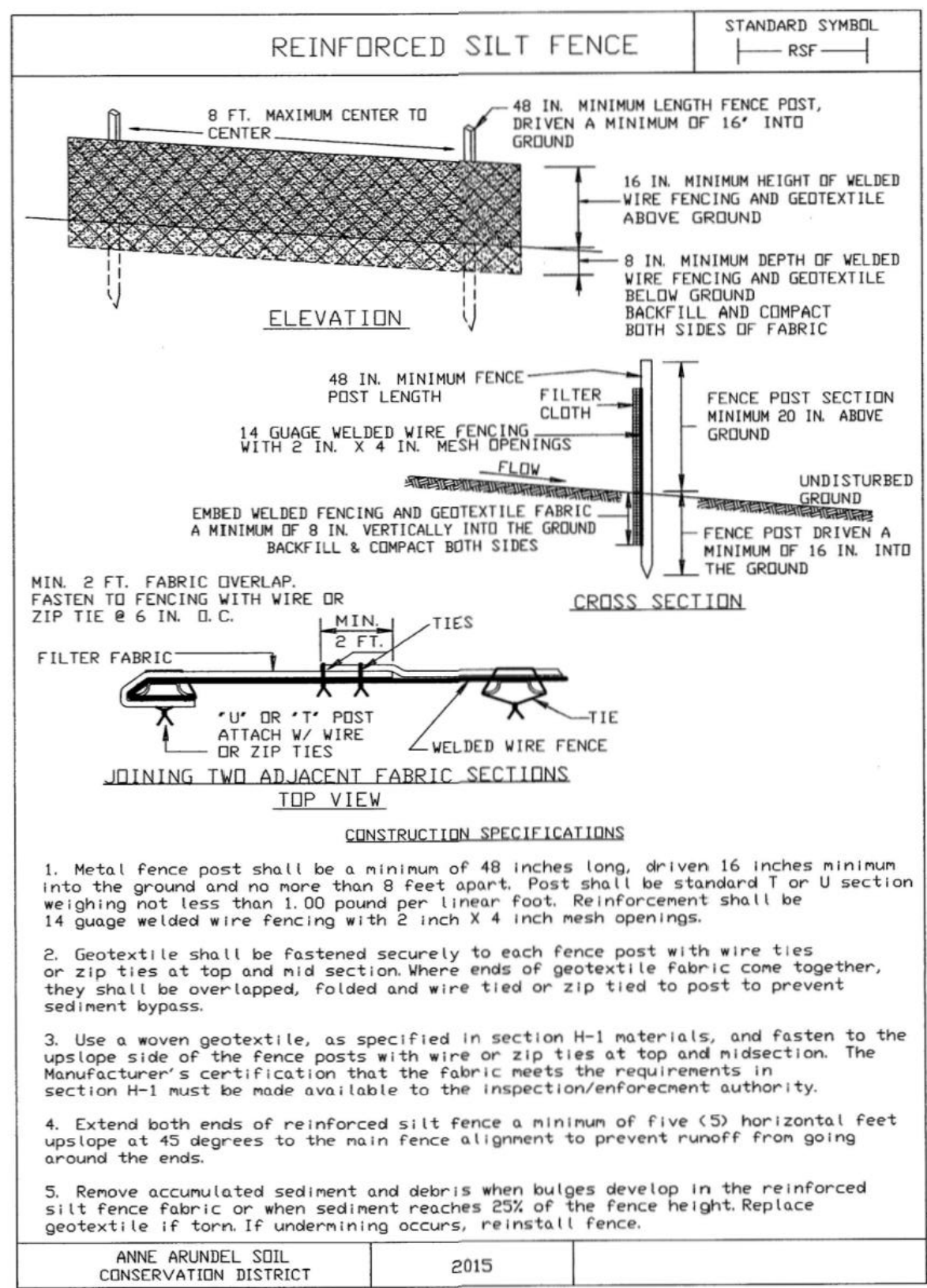
CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL MEASURES AND DEVICES AFTER EVERY STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO THE REMOVAL OF ALL ACCUMULATED SEDIMENT. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

BID SET

REVISIONS				APPROVED			
NO.	DESCRIPTION	BY	DATE	DATE	DATE	DATE	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	

SCALE: 1" = 50'	DEALE COMMUNITY PARK
DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.	
SHEET NO. 29 OF 47	
PROJECT NO.: P582201	EROSION AND SEDIMENT CONTROL PLAN PHASE #1
CONTRACT NO.: P582201	



H-1 STANDARDS AND SPECIFICATIONS FOR MATERIALS

TABLE H-1: GEOTEXTILE FABRICS

PROPERTY	TEST METHOD	MINIMUM AVERAGE ROLL VALUE					
		WOVEN SILT FILM GEOTEXTILE		WOVEN MONOFILAMENT GEOTEXTILE		NONWOVEN GEOTEXTILE	
		MD	CD	MD	CD	MD	CD
GRAB TENSILE STRENGTH	ASTM D-4632	200 LB	200 LB	270 LB	250 LB	200 LB	200 LB
GRAB TENSILE ELONGATION	ASTM D-4632	15%	10%	15%	15%	50%	50%
TRAPEZOIDAL TEAR STRENGTH	ASTM D-4533	75 LB	75 LB	100 LB	60 LB	80 LB	80 LB
PUNCTURE STRENGTH	ASTM D-4241	450 LB	450 LB	900 LB	900 LB	450 LB	450 LB
APPARENT OPENING SIZE ^a	ASTM D-4751	U.S. SIEVE 30 (0.59 MM)	U.S. SIEVE 30 (0.59 MM)	U.S. SIEVE 70 (0.21 MM)	U.S. SIEVE 70 (0.21 MM)	U.S. SIEVE 70 (0.21 MM)	U.S. SIEVE 70 (0.21 MM)
PERMITTIVITY	ASTM D-4491	0.05 SEC ⁻¹	0.28 SEC ⁻¹	0.28 SEC ⁻¹	1.1 SEC ⁻¹	1.1 SEC ⁻¹	1.1 SEC ⁻¹
ULTRAVIOLET RESISTANCE RETAINED AT 500 HOURS	ASTM D-4355	70% STRENGTH	70% STRENGTH	70% STRENGTH	70% STRENGTH	70% STRENGTH	70% STRENGTH

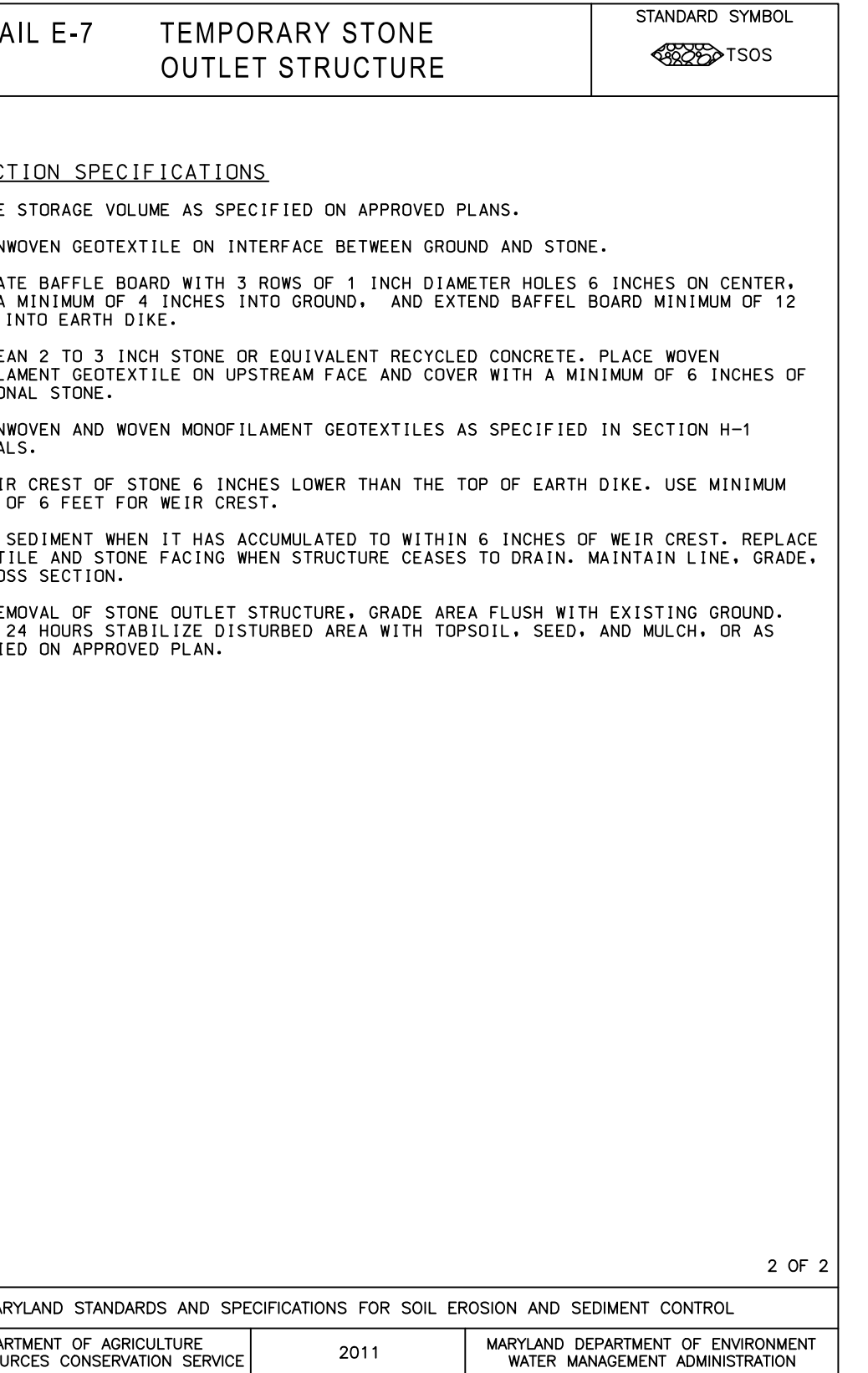
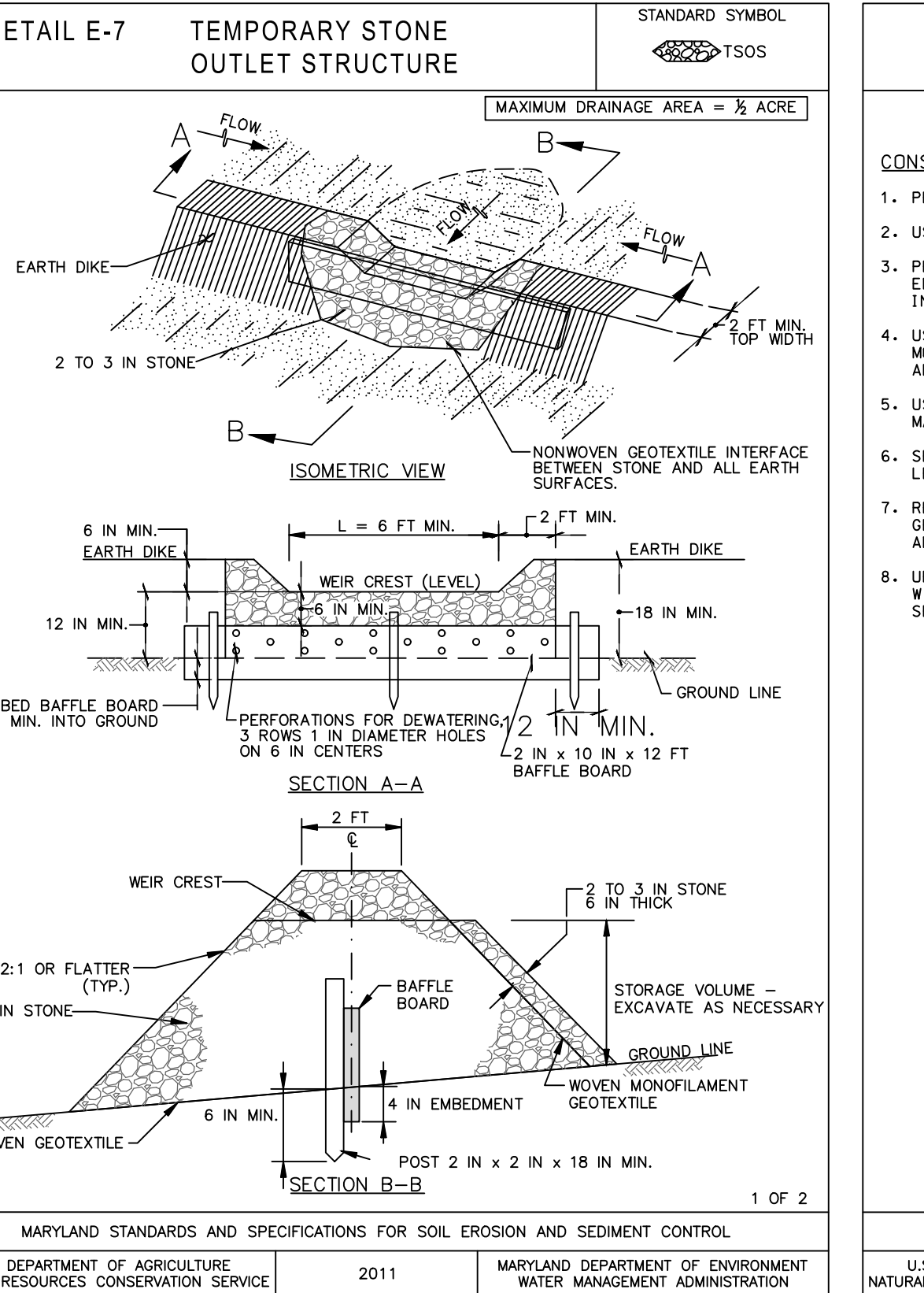
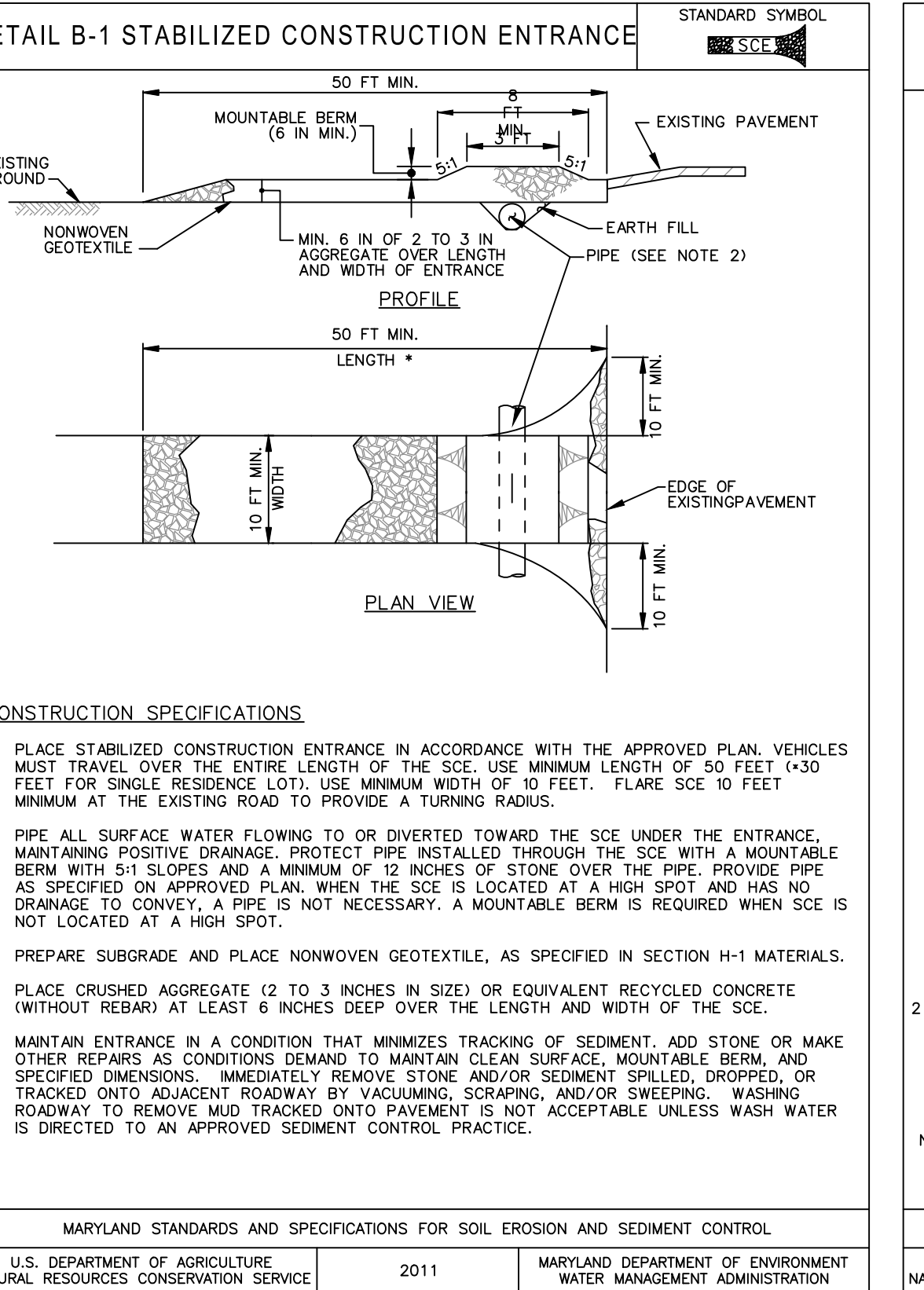
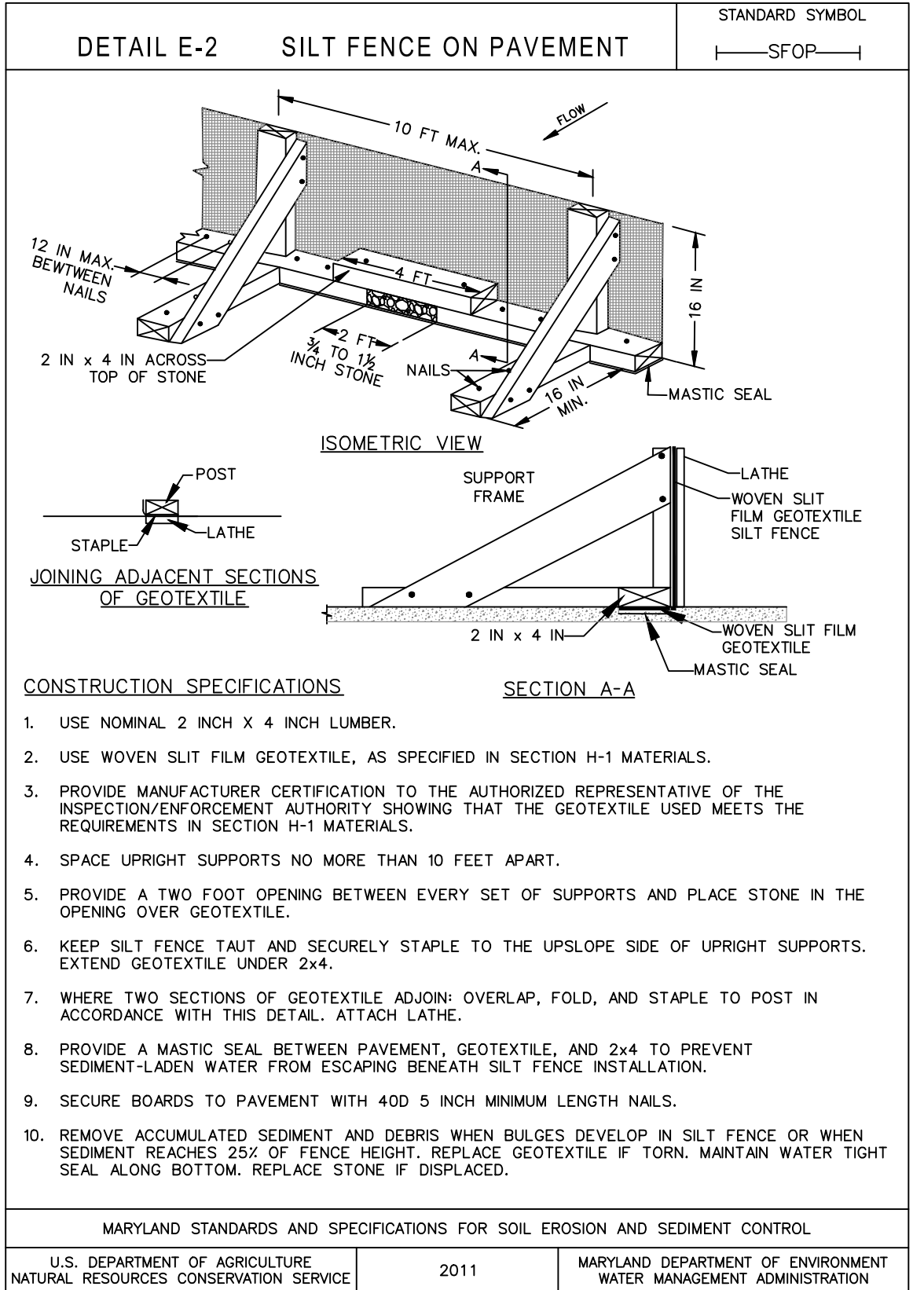
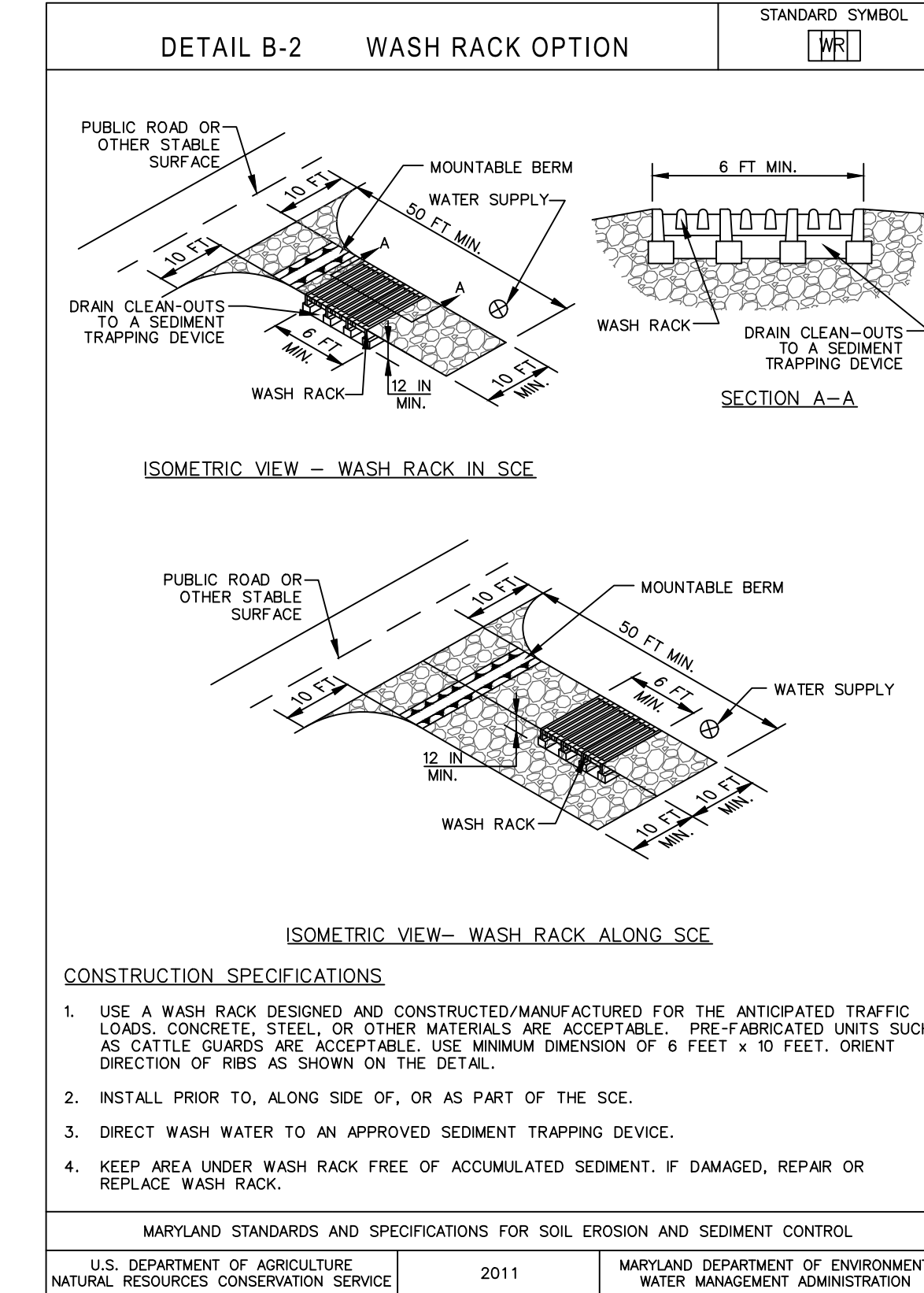
^a ALL NUMERIC VALUES EXCEPT APPARENT SIZE (AOS) REPRESENT MINIMUM AVERAGE ROLL VALUES (MARV). MARV IS CALCULATED AS THE TYPICAL MINUS TWO STANDARD DEVIATIONS. MD IS MACHINE DIRECTION; CD IS CROSS DIRECTION. VALUES FOR AOS REPRESENT THE AVERAGE MAXIMUM OPENING.

GEOTEXTILES MUST BE EVALUATED BY THE NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM (NTPPE) AND CONFORM TO THE VALUES IN TABLE H-1.

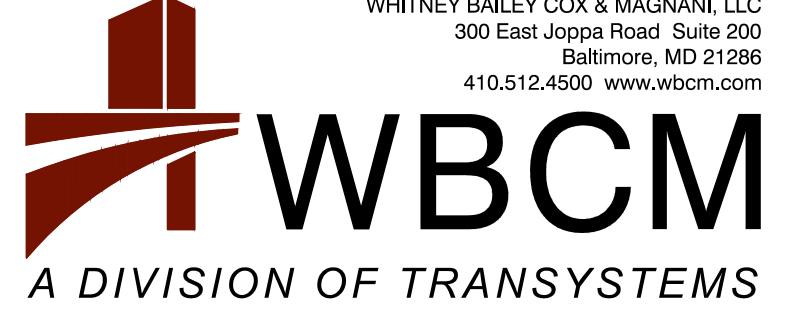
THE GEOTEXTILE MUST BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS AND MUST BE ROT AND MILDEW RESISTANT. THE GEOTEXTILE MUST BE MANUFACTURED FROM FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS AND COMPOSED OF A MINIMUM OF 85 PERCENT BY WEIGHT OF POLYOLEFINS OR POLYESTERS, AND FORMED INTO A STABLE NETWORK SO THE FILAMENTS OR YARNS RETAIN THEIR DIMENSIONAL STABILITY RELATIVE TO EACH OTHER, INCLUDING SELVAGES.

WHEN MORE THAN ONE SECTION OF GEOTEXTILE IS NECESSARY, OVERLAP THE SECTIONS BY AT LEAST ONE FOOT. THE GEOTEXTILE MUST BE PULLED TAUT OVER THE APPLIED SURFACE. EQUIPMENT MUST NOT RUN OVER EXPOSED FABRIC. WHEN PLACING RIPRAP ON GEOTEXTILE, DO NOT EXCEED A ONE FOOT DROP HEIGHT.

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



BID SET



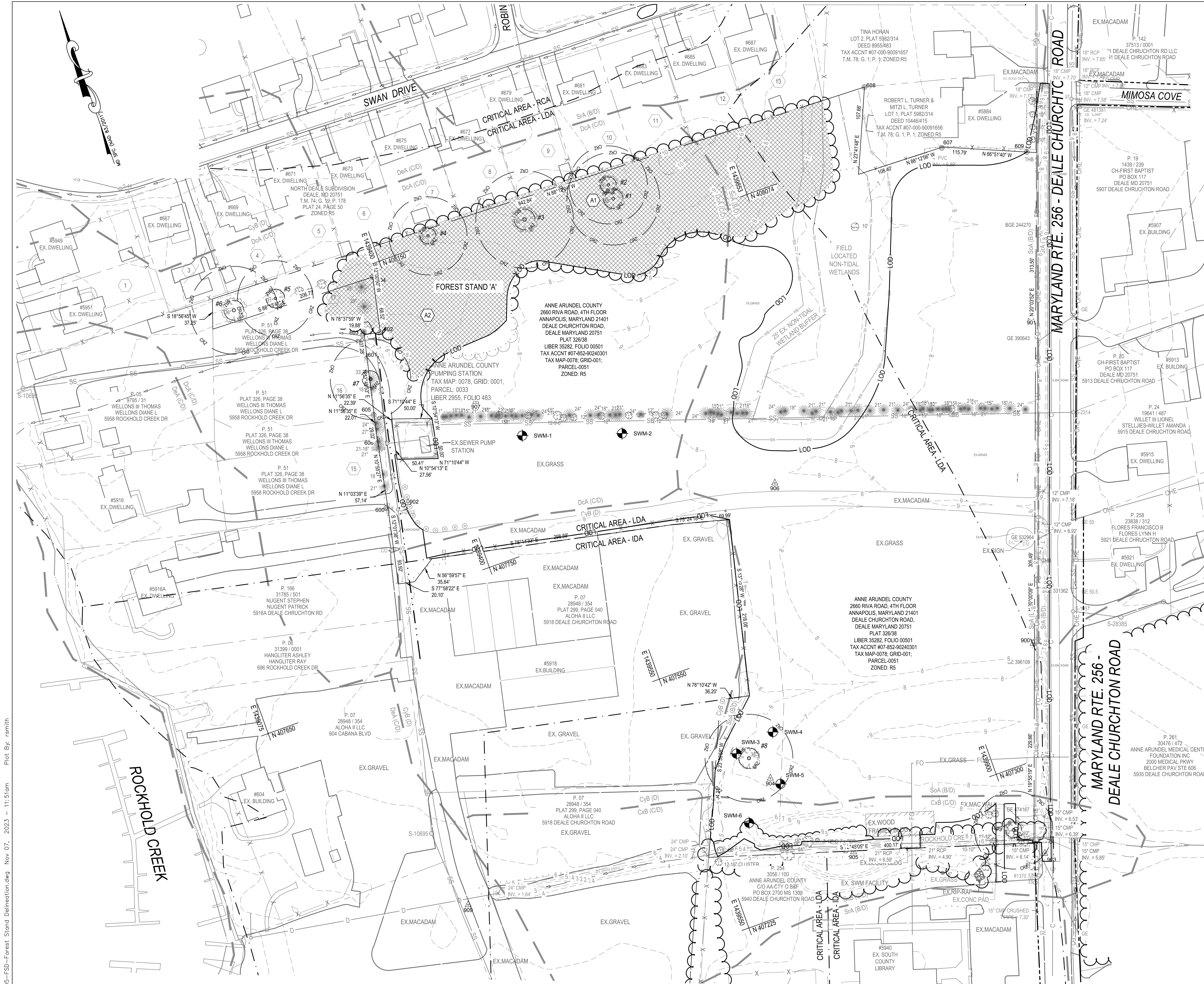
WHITNEY BAILEY COX & MAGNANI LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: AS SHOWN	DEALE COMMUNITY PARK		
DRAWN BY: R.S.S.			
CHECKED BY: R.W.H.			
SHEET NO. 32 OF 47	EROSION AND SEDIMENT CONTROL DETAILS		
PROJECT NO.: P582001			
CONTRACT NO.: P582001			

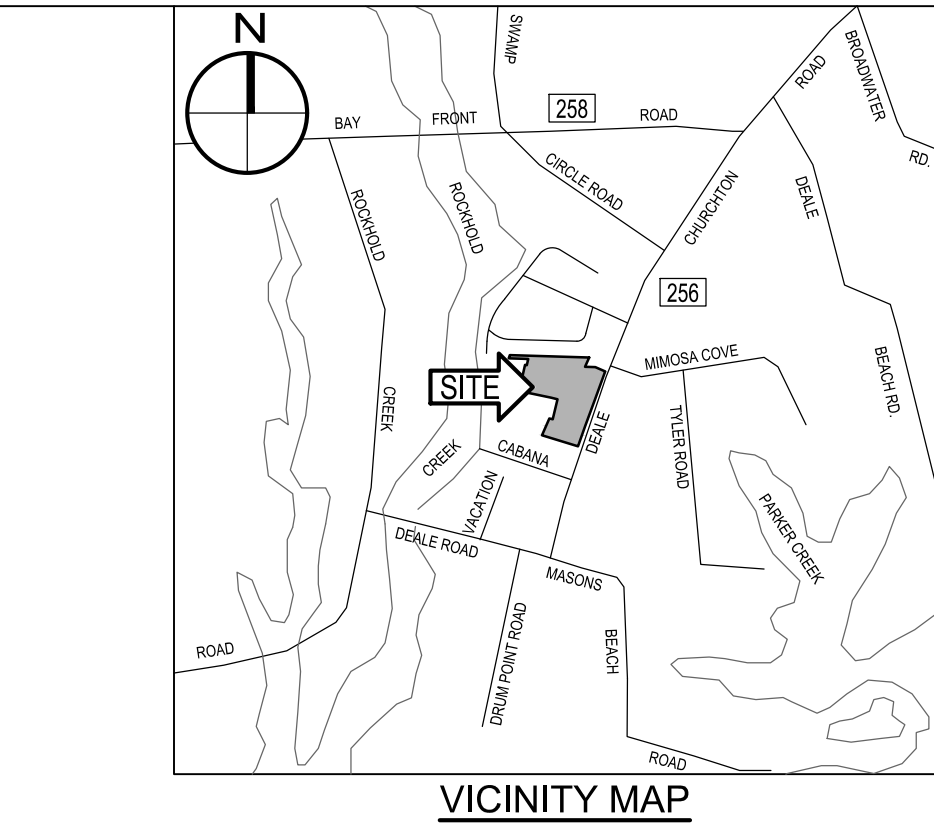
P:\2017\17141805\Drawings\07-Site\17141805-C703-Erosion and Sediment Control Plan Notes And Details.dwg Nov 07, 2023 11:49am Plot By: rsmith



LEGEND

DESCRIPTION	EXISTING
BUILDING	EX. BLDG
BITUMINOUS CONCRETE PAVING	EX. MACADAM
PORTLAND CEMENT CONCRETE	EX. CONC.
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM
BITUMINOUS CONCRETE PEDESTRIAN WALK	

DECIDUOUS / EVERGREEN TREES
 CLEAN OUT
 DRAIN INLET
 ELECTRIC MH
 FIRE HYDRANT
 GAS VALVE
 HAND BOX
 INLET MH
 UTILITY POLE
 SANITARY MH
 SIGN (ONE-POST)
 STORM DRAIN MH
 STREET LIGHT
 TRAVERSE STATION
 BOLLARD
 WATER VALVE
 SPOT ELEVATION
 MAJOR CONTOUR
 MINOR CONTOUR
 WALL
 CONC. CURB
 SURVEY LIMITS
 CHAIN LINK FENCE LINE
 SPLIT RAIL FENCE LINE
 O/H ELECTRIC
 U/G FIBER OPTIC
 U/G GAS
 U/G SANITARY
 U/G STORM
 U/G WATER
 U/G COMMUNICATION
 PROPERTY LINE
 RIGHT OF WAY
 SOIL BORING
 LIMIT OF DISTURBANCE
 SOIL LINES



- FOREST STAND DELINEATION NOTES:**
 THE PROJECT AREA IS FOR THE DEVELOPMENT OF DEALE COMMUNITY PARK.
- PROPERTY ADDRESS: 5924 DEALE CHURCHTON ROAD, DEALE MARYLAND 20751
 - PROPERTY AREA IS COMPRISED OF THE FOLLOWING PARCEL:
 a. MAP 0078, GRID 0001, PARCEL 0051, DEED REFERENCE: LIBER 35282, FOLIO 00501
 - OWNER: ANNE ARUNDEL COUNTY
 MAILING ADDRESS:
 2660 RIVA ROAD, 4TH FLOOR
 ANNAPOLIS, MARYLAND 21401
 - WETLANDS ARE PRESENT ON-SITE.
 - THE STATUS OF THE 100-YR FLOOD PLAIN: NO FLOOD PLAINS PRESENT ON-SITE.
 FEMA FLOOD MAP: FIRM PANEL 316 OF 385
 COMMUNITY NUMBER SUFFIX
 ANNE ARUNDEL COUNTY 240008 0316 F
 - INTERMITTENT AND PERENNIAL STREAMS ARE PRESENT ON-SITE.
 - ZONING: RS - RESIDENTIAL
 - THE SITE IS WITHIN THE CHESAPEAKE BAY CRITICAL AREA.

FOREST STAND DELINEATION NARRATIVE
 THE FSD INVESTIGATION PERFORMED BY WHITNEY, BAILEY, COX & MAGNANI, ON SEPTEMBER 21, 2022, THE SUBJECT PROPERTY IS A 12.03 ACRE PARCEL OF WHICH 1.81 ACRES IS FORESTED. THE FOREST HAS ONE (1) STAND, THE SURROUNDING AREA IS MARINA DISTRICT, GENERAL COMMERCIAL AND LOW DENSITY RESIDENTIAL HOUSING. THERE IS A FORESTED CORRIDOR ON THE NORTH EDGE OF THE PROPERTY.

FOREST STAND A
 FOREST STAND A IS 1.81 AC. THE TREE CANOPY IS TYPICAL OF A COASTAL PLAIN WALNUT - MAPLE LATE SUCCESSIONAL FOREST. THE STAND IS A BALANCED UN-EVEN AGED FOREST STRUCTURE WITH THE DOMINANT CANOPY CONSISTING OF THREE (3) SPECIES: OAK, MAPLE, AND WALNUT WITH A DOMINANT CLASS SIZE OF > 30 IN. DBH. OVERSTORY TREE SPECIES IN THE SHADY/OKELKTON COMPLEX SOILS ARE: BLACK WALNUT, SWEETGUM, RED MAPLE, LOBLOBBY PINE AND BLACK CHERRY.

THE STAND IS SITUATED IN A SHADY/OKELKTON COMPLEX SOILS RANGING IN 0-2 PERCENT SLOPES. THE DEALE SHADY/OKELKTON COMPLEX SOILS ARE DESCRIBED AS FINE SANDY LOAM MINERAL SOIL, SILT LOAM, SILTY CLAY LOAM, SILTY EOLIAN MATERIAL UNDERLAIN BY LOAMY ALLUVIAL OR MARINE SEDIMENTS, POORLY DRAIN.

UNDERSTORY TREES INCLUDE: ELM, CHERRY, RED BUD AND GREEN ASH. WILDFIRE HABITAT VALUE ON THIS SITE IS EXCELLENT WITH COVER ALONG THE FOREST EDGE AND INTERIOR. THERE ARE SPECIMEN TREES (>30 DBH) SCATTERED IN THIS FOREST STAND.

OVERALL
 THE STAND A IS IN FAIR CONDITION, AND HAS AN 85% CANOPY CLOSURE. THERE IS A 30% PRESENCE OF INVASIVE SPECIES THROUGHOUT THE STAND AND THERE ARE ENVIRONMENTAL RESOURCES PRESENT ON THE PROJECT SITE. THE FOREST STAND 'A' WOULD BE CLASSIFIED AS A PRIORITY ONE RANKING DUE TO THE BUFFERS FOR LAND USE AND CRITICAL HABITATS. THE SITE WAS HARVESTED 50 OR MORE YEARS AGO AS UNDERSTORY SHOWS SIGNS OF DISTURBANCE AND MANY SPECIMEN TREES.

EXISTING FOREST ON PROJECT PROPERTY

SPECIMEN TREES

CRITICAL ROOT ZONE (CRZ)

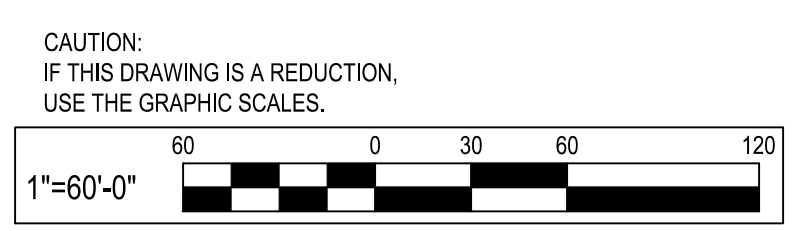
STRUCTURAL ROOT ZONE (SRZ)

FSD FIELD SAMPLING PLOT LOCATION

Stand Variable	Stand #A1	Stand #2
1. Dominant species / Codominant species	Red Oak, Elm & Cherry	Walnut, Maple & Ash
2. Successional stage	Late	Late
3. Basal area in s.f. per acre	60	40
4. Size class of dominant species	> 30 IN DBH	6 - 12 IN DBH
5. Percent of canopy closure	95%	80%
6. Number of tree species per acre	5	4
7. Common understory species per acre	Cherry & Elm	Red Bud & Green Ash
8. Percent of understory cover 3' to 20' tall	27%	25%
9. Number of woody plant species 3' to 20' tall	2	2
10. Common herbaceous species 0' to 3' tall	Green Brier, Honey Suckle, Brambles & Ivy	Honey Suckle & Brambles
11. Percent of herbaceous & woody plant cover 0' to 3' tall	83%	73%
12. List of major invasive plant species & percent of cover	Honeysuckle, Ivy - 50%	Wisteria & Honeysuckle- 30%
13. Number of standing dead trees 6" dbh or greater	3	1
14. Comments	Lots of Brambles and downed timber debris, (3) specimen trees	

SPECIMAN TREE CHART

TREE NO.	SPECIES	DBH (in.)	CONDITION
ST #1	Green Ash / Fraxinus pennsylvanica	32.00	Good
ST #2	Red Oak / Quercus rubrum	38	Good
ST #3	Red Oak / Quercus rubrum	40	Good
ST #4	Red Oak / Quercus rubrum	31.5	Good
ST #5	Red Oak / Quercus rubrum	31	Good
ST #6	Black Walnut / Juglans nigra	36	Good
ST #7	Loblolly Pine / Pinus taeda	33	Good
ST #8	Black Cherry / Prunus serotina	36*	Good
ST #9	Sweetgum / Liquidambar styraciflua	32*	Good



WHITNEY BAILEY COX & MAGNANI, LLC
 300 East Joppa Road Suite 200
 Baltimore, MD 21286
 410.512.4500 www.wbcm.com

WBCM
 A DIVISION OF TRANSYSTEMS

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License #27734 Expiration Date: 07/12/2024

REVISIONS

NO.	DESCRIPTION	BY	DATE

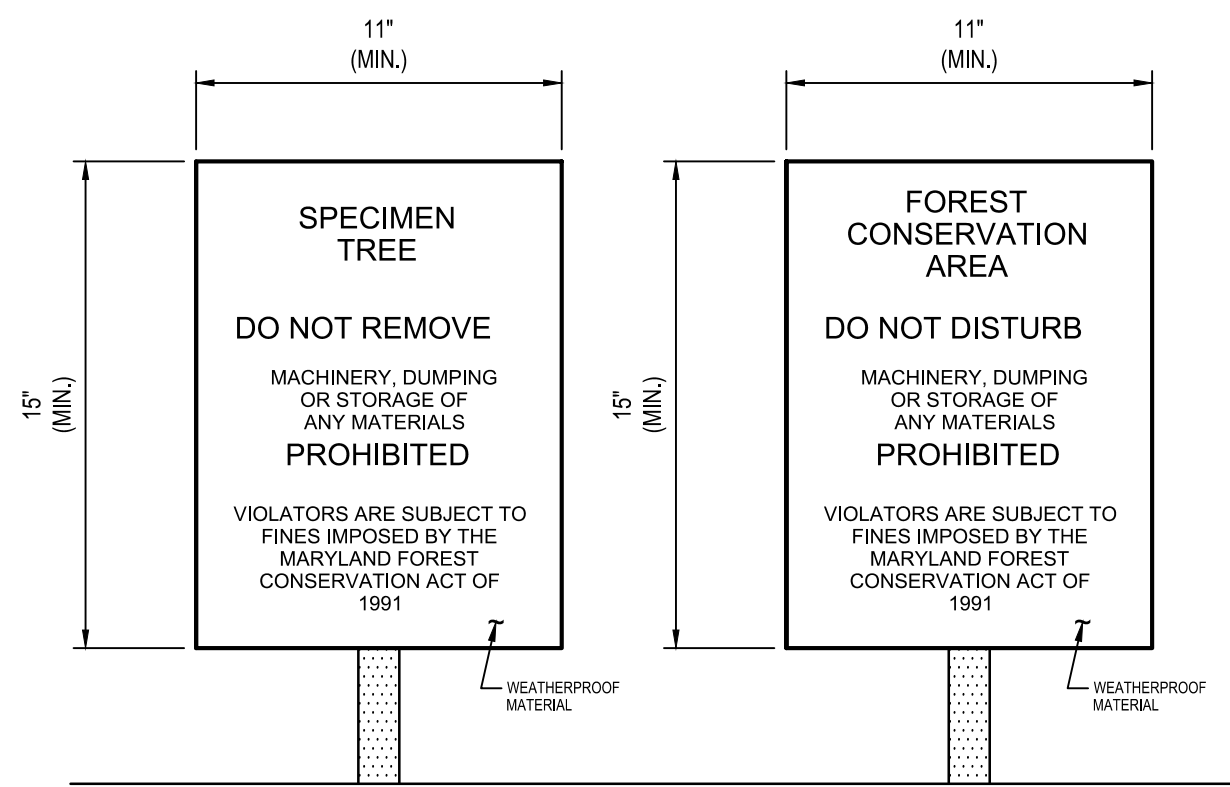
APPROVED

DATE	DATE	SCALE:
		1" = 60'
		DRAWN BY: R.S.S.
		CHECKED BY: R.W.H.
		SHEET NO. 34 OF 47
		PROJECT NO.: P582001
		CONTRACT NO.: P582001

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

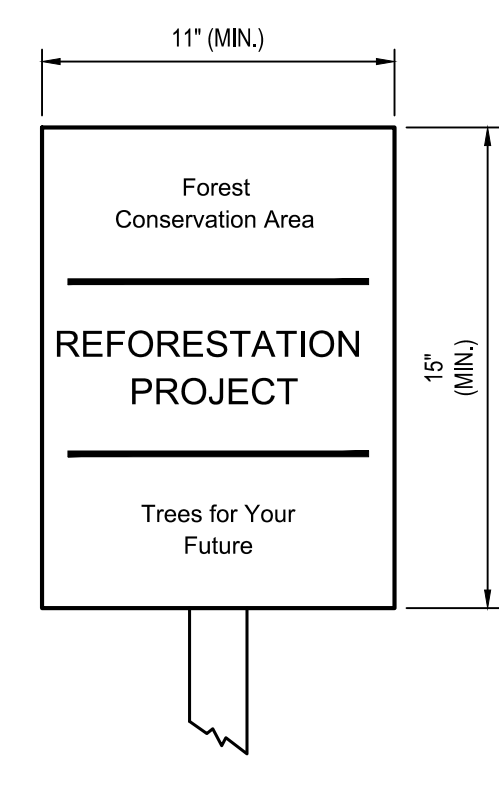
DEALE COMMUNITY PARK

FOREST STAND DELINEATION



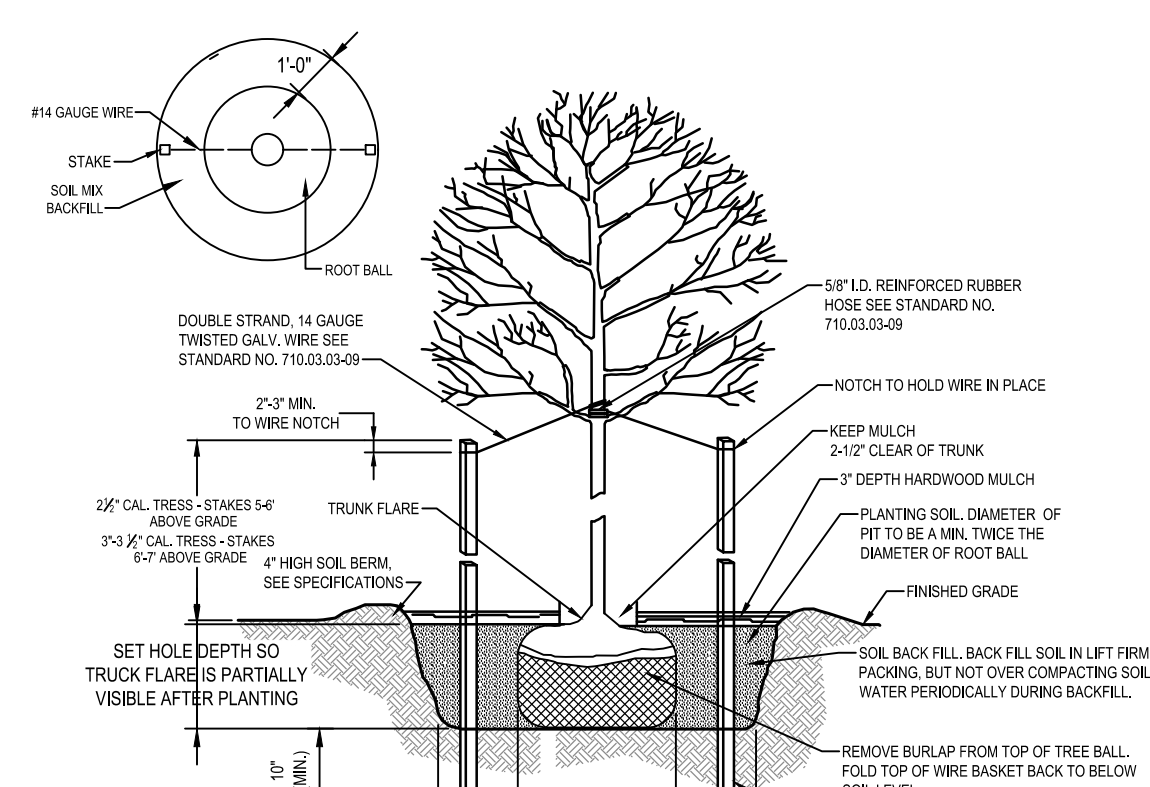
- NOTES:
- BOTTOM OF SIGNS TO BE HIGHER THAN TOP OF TREE PROTECTION FENCE.
 - SIGNS TO BE PLACED APPROXIMATELY 100' APART ALONG THE LIMITS OF DISTURBANCE. CONSIDER THE EFFECTS OF VISIBILITY BY PLACING SIGNS CLOSER OR FURTHER APART.
 - ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.

CONSTRUCTION SIGNS
NOT TO SCALE



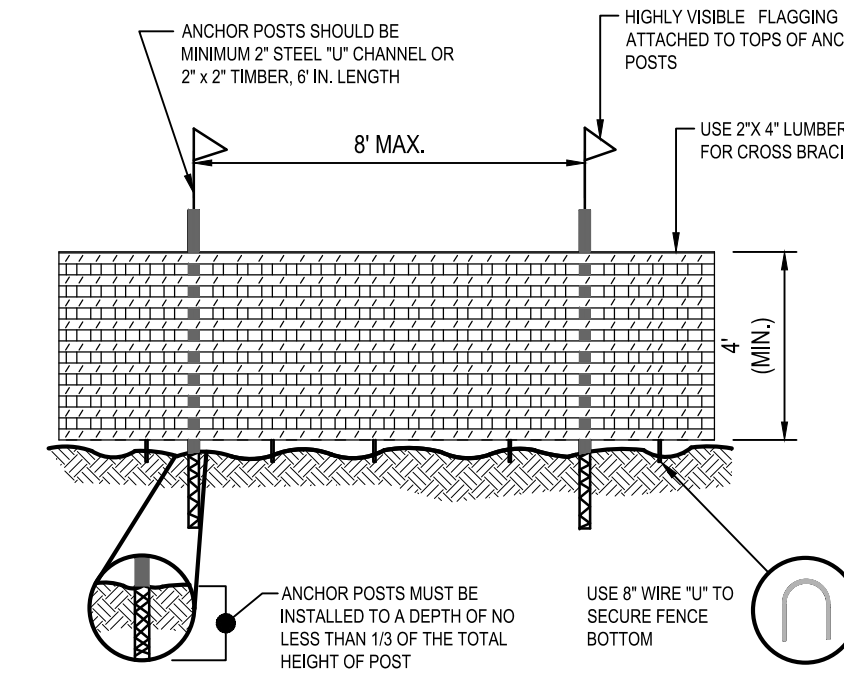
- NOTES:
- SIGNAGE TO BE INSTALLED ALONG THE COMMON BOUNDARY OF THE TREE PROTECTION FENCE WITH REFORESTATION/AFFORESTATION PLANTING AREAS.
 - SIGNS TO BE INSTALLED A MAXIMUM OF 100' ON CENTER AND AT EVERY CORNER OF THE PROTECTED AREA.
 - SIGNS TO BE MOUNTED AT A HEIGHT OF 4' ON 4"x4" PRESSURE TREATED POSTS.
 - SIGNAGE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

ELEVATION
AFFORESTATION PROTECTION SIGNAGE
NOT TO SCALE



- NOTE:
- LOCATE TWO STAKES PARALLEL TO NEAREST SIDEWALK OR PAVEMENT AREA FOR UNIFORM APPEARANCE.

ELEVATION
DECIDUOUS TREE DETAIL
NOT TO SCALE



- NOTES:
- BLAZE ORANGE OR BLUE PLASTIC MESH FENCE FOR FOREST PROTECTION DEVICE ONLY.
 - BOUNDARIES OF RETENTION AREA WILL BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 - BOUNDARIES OF RETENTION AREA SHALL BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 - AVOID DAMAGE TO CRITICAL ROOT ZONE. DO NOT DAMAGE OR SEVERE LARGE ROOTS WHEN INSTALLING POSTS.
 - PROTECTION SIGNS ARE REQUIRED.
 - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

ELEVATION
PLASTIC MESH TREE PROTECTION FENCE
NOT TO SCALE

AFFORESTATION OR REFORESTATION MAINTENANCE AND REPLACEMENT REQUIREMENTS

A TWO YEAR MAINTENANCE AND REPLACEMENT WARRANTY PERIOD IS REQUIRED FOR ALL NEWLY PLANTED MATERIALS. THE MAINTENANCE AND REPLACEMENT WARRANTY PERIOD SHALL COMMENCE UPON THE DATE OF THE WRITTEN ACCEPTANCE BY THE OWNER OF THE PLANTED AREAS. A WRITTEN WARRANTY WILL BE DELIVERED TO THE OWNER UPON ACCEPTANCE OF THE PLANTED AREAS. THE CONTRACTOR RESPONSIBLE FOR THE INITIAL PLANTING OPERATIONS AND RELATED WORK SHALL PROVIDE MAINTENANCE AND REPLACEMENT. ALL LANDSCAPE PLANT MATERIAL INCLUDED AS FOREST CONSERVATION CREDITS SHALL BE COVERED UNDER THE MAINTENANCE AND REPLACEMENT WARRANTY PERIOD.

MAINTENANCE

THE CONTRACTOR SHALL FIELD CHECK THE NEWLY PLANTED AREA(S) AND SHALL PROVIDE THE FOLLOWING MAINTENANCE ITEMS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE WHICH SHALL BEGIN AFTER THE COMPLETION AND ACCEPTANCE OF THE INITIAL AFFORESTATION OR REFORESTATION PLANTING.

- WATERING:** WATERING OF ALL NEWLY PLANTED MATERIALS ONCE PER WEEK AS WEATHER PERMITS DURING THE ENTIRE INITIAL GROWING SEASON. FOLLOWING THE INITIAL GROWING SEASON WATERING SHALL BE DONE ON AN "AS NEEDED" BASIS DEPENDING ON THE FREQUENCY OF NATURAL RAINFALL. DURING THE MONTHS OF JULY AND AUGUST AND PERIODS OF SEVERE DROUGHT, ALL NEWLY PLANTED MATERIALS SHALL BE WATERED THOROUGHLY ONCE EVERY WEEK. WATERING SHALL BE DONE DEEPLY AND SLOWLY USING AN OPEN END HOSE OR WATERING PROBE, AT LOW PRESSURE, ALLOWING THE WATER TO BE ABSORBED INTO THE SOIL UNTIL THOROUGHLY SATURATED. THE WATERED AREA SHALL INCLUDE THE WHOLE ROOT ZONE AS THE TREE BECOMES MORE ESTABLISHED.
- FERTILIZING:** FERTILIZING SHALL BE APPLIED ONLY AFTER THE SOIL HAS BEEN TESTED TO DETERMINE ITS NEEDS. ORGANIC FERTILIZER SHOULD BE APPLIED IN ACCORDANCE WITH THE AMOUNTS RECOMMENDED IN THE SOIL ANALYSIS REPORT. NO FERTILIZING OF NEWLY PLANTED TREES SHALL BE DONE WITHIN THE FIRST GROWING SEASON AFTER INITIAL PLANTING. FOLLOWING THE FIRST GROWING SEASON, APPLY FERTILIZER AS RECOMMENDED EITHER IN LATE FALL OR EARLY SPRING.
- SUPPLEMENTAL MULCH:** TO CONTROL UNDESIRABLE VEGETATION ADJACENT TO THE NEWLY PLANTED MATERIALS AND TO PREVENT TREE ROOTS FROM DRYING OUT, ADDITIONAL MULCH SHALL BE PLACED OVER THE EXISTING MULCH FIELD WHERE REQUIRED. CAREFULLY REMOVE ANY INVASIVE PLANTS, INCLUDING THE ROOT SYSTEM WITHIN THE MULCH FIELDS. DO NOT DAMAGE TREES IN ANY WAY DURING REMOVAL OF INVASIVE PLANTS OR MULCHING OPERATIONS.
- PRUNING:** REMOVE DEAD, DISEASED, DYING, AND BROKEN BRANCHES FROM ALL PLANT MATERIALS. PRUNING SHALL BE DONE CLEANLY, LEAVING NO RAGGED EDGES.

REPLACEMENT OF DEAD OR DYING MATERIALS

- SURVIVAL REQUIREMENT:** AREAS AT THE END OF THE SECOND GROWING SEASON SHALL MEET THE FOLLOWING MINIMUM PERCENTAGES OF TOTAL PLANTS SPECIFIED BY THE APPROVED PLAN.
 - BARE ROOT SEEDLINGS OR WHIPS- 55%
 - CONTAINER-GROWN SEEDLING TUBES OR WHIPS WITH TREE SHELTERS- 65%
 - CONTAINER-GROWN 1-2, AND 3- GALLON- 75%
 - CONTAINER-GROWN 5- AND 7- GALLON OF 1" CAL) B&B- 85%
 - 2" CAL) B&B- 100%
- INSPECTION:** CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE AFFORESTATION OR REFORESTATION AREA(S) BY A QUALIFIED REPRESENTATIVE OF THE DPZ AND BY THE QUALIFIED PROFESSIONAL WHO PREPARED THE PLAN. AT THE BEGINNING AND AT THE END OF THE GROWING SEASON TO OBSERVE ANY PROBLEMS, MONITOR SURVIVAL RATE AND SPECIFY NECESSARY REMEDIAL ACTIONS. NEEDED TO CORRECT EXISTING PROBLEMS. THE INSPECTION SHOULD FOCUS ON THE FOLLOWING ITEMS WHEN DETERMINING SURVIVAL POTENTIAL:
 - VIGOR AND THREAT OF COMPETING VEGETATION
 - PLANT STRUCTURE
 - GROWTH RATE
 - CROWN DEVELOPMENT
 - TRUNK CONDITIONS AND HEALTH.
- PLANT CONDITION-CHECK SHEETS:** THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS ON APPROPRIATE FIELD DATA CHECK SHEETS WHICH SHALL INCLUDE ALL CONDITIONS OBSERVED RELATIVE TO THE HEALTH AND POTENTIAL SURVIVAL OF THE PLANT MATERIALS. SUCH CHECK SHEETS SHALL BE COMPLETED DURING EACH SCHEDULED MAINTENANCE SESSION DURING THE 24-MONTH MANAGEMENT AND MAINTENANCE PROGRAM. ONE COPY OF THE CHECK SHEETS SHALL BE SENT TO THE CLIENT, ONE COPY TO WBCM, AND ONE COPY SHALL BE SENT TO THE ANNE ARUNDEL COUNTY DEPARTMENT OF PLANNING AND ZONING.
- REPLACEMENT:** ANY PLANT MATERIALS WHICH ARE 25% DEAD OR MORE SHALL BE REPLACED DURING THE APPROPRIATE SPRING OR FALL PLANTING SEASONS IN ACCORDANCE WITH THE METHODS INDICATED IN THE PLANTING DETAILS. A TREE SHALL BE CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME GENUS, SPECIES, AND SIZE AS SPECIFIED ON THE PLANT LIST.
- INSPECTION/CERTIFICATION SCHEDULE:** THE CONTRACTOR SHALL SUBMIT WITH HIS BID A SCHEDULE FOR THE WORK WHICH SHALL INCLUDE INSPECTIONS BY WBCM AT THE CONCLUSION OF INSTALLATION AND AT THE START AND CONCLUSION OF EACH GROWING SEASON DURING THE TWO-YEAR WARRANTY PERIOD.
- PENALTY FOR VIOLATION:** A SITE INSPECTION BY THE CONTRACTOR, AND A REPRESENTATIVE OF WBCM SHALL TAKE PLACE AT THE END OF THE 24-MONTH MANAGEMENT AND MAINTENANCE AGREEMENT PERIOD. THE CONTRACTOR SHALL CONTACT WBCM AT LEAST ONE (1) MONTH IN ADVANCE OF SUCH INSPECTION FOR COORDINATION. IF THE SURVIVAL RATE OF THE AFFORESTATION OR REFORESTATION AREA(S) FALLS BELOW THE ESTABLISHED SURVIVAL REQUIREMENTS BY THE END OF THE 24-MONTH MANAGEMENT AND MAINTENANCE AGREEMENT, THE REMAINING AMOUNT OF THE CASH BOND OR OTHER SURETY MAY BE SUBJECT TO FORFEITURE, OR OTHER PENALTIES MAY BE IMPOSED.

SEQUENCE OF OPERATIONS

PRE-CONSTRUCTION SITE PREPARATION

- ALL CONSTRUCTION ACTIVITIES, PRACTICES, TECHNIQUES, ETC., SHALL BE IN CONFORMANCE WITH THE MARYLAND FOREST CONSERVATION PROGRAM, AS SPECIFIED IN THE STATE FOREST CONSERVATION TECHNICAL MANUAL. (THIS MANUAL SUPERCEDES ANY DISCREPANCIES BETWEEN IT AND THESE PLANS.)
- INSTALL TREE PROTECTION FENCE AND IMBEDDENT TREE PROTECTION DEVICES AS SHOWN.
 - MOW OR BRUSHGROB THE SITE WITHIN THE LIMITS OF THE PROPOSED REFORESTATION/AFFORESTATION AREA. DO NOT REMOVE OR DAMAGE ANY EXISTING TREES OR SAPLINGS UNLESS OTHERWISE INDICATED.
 - REMOVE OR TREAT WITH AN ACCEPTABLE METHOD, NOXIOUS PLANT MATERIAL SUCH AS MULTIFLORA ROSE, TEARthumb, AND JOHNSON GRASS BEFORE INSTALLING REFORESTATION/AFFORESTATION PLANTS.
 - INSTALL TREE PROTECTION SIGNAGE.
 - STABILIZE ANY DISTURBED AREAS USING THE SPECIFIED STABILIZATION MIXTURE THAT ALLOWS FOR NATURAL REVEGETATION OF FOREST COMMUNITIES.

FOREST RETENTION SEQUENCE OF OPERATIONS

ALL CONSTRUCTION ACTIVITIES, PRACTICES, TECHNIQUES, ETC., SHALL BE IN CONFORMANCE WITH THE MARYLAND FOREST CONSERVATION PROGRAM, AS SPECIFIED IN THE STATE FOREST CONSERVATION TECHNICAL MANUAL. (THIS MANUAL SUPERCEDES ANY DISCREPANCIES BETWEEN IT AND THESE PLANS.)

- PRIOR TO BEGINNING ANY GRADING OPERATIONS ON THIS SITE OR ON A RESPECTIVE LOT, THERE SHALL BE A PRECONSTRUCTION MEETING HELD AT THE SITE, WHICH IS TO INCLUDE THE CONTRACTOR AND REPRESENTATIVES FROM WHITNEY, BAILEY, COX & MAGNANI, LLC (WBCM). THE ANNE ARUNDEL COUNTY DEPARTMENT OF PLANNING AND ZONING (DPZ) AND THE OWNER WILL BE NOTIFIED BY THE CONTRACTOR AS TO THE TIME AND PLACE OF THE FIELD MEETING. SHOULD THEY WISH TO SEND A REPRESENTATIVE. THE PURPOSE OF THIS MEETING WILL BE TO REVIEW THE APPROVED FCP AND TO FIELD VERIFY THE CORRECT LIMITS OF DISTURBANCE (LOD).
- THE LIMITS OF DISTURBANCE (LOD) PERTINENT TO THE PRESERVATION OF WOODED AREAS SHALL BE STAKED IN THE FIELD WITH FINAL ADJUSTMENTS BEING MADE AS NECESSARY TO ENSURE ADEQUATE PROTECTION OF THE CRITICAL ROOT ZONE OF TREES DESIGNATED FOR RETENTION. STAKES TO BE USED SHALL BE THOSE SPECIFIED FOR THE "TREE PROTECTION DEVICES" TO WHICH APPROVED PROTECTIVE MATERIAL WILL BE ATTACHED. ALTERNATE MEANS OF DEFINING THE LOD MAY BE USED IF APPROVED BY THE DPZ.
- ALL FOREST RETENTION AREAS SHALL BE PROTECTED BY HIGHLY VISIBLE, WELL-ANCHORED, TEMPORARY PROTECTION DEVICES (SEE DETAIL), WHICH SHALL BE SECURELY IN PLACE PRIOR TO ANY CLEARING OR GRADING OPERATIONS.
- GRADING OPERATIONS OR OTHER CONSTRUCTION OPERATIONS THAT COULD DISLODGE OR OTHERWISE DAMAGE THE PROTECTIVE DEVICES SHALL BE AVOIDED ALONG THE EDGES OF THE LOD LINES IF POSSIBLE. THE CONTRACTOR SHALL PROPERLY REPAIR ANY PROTECTIVE DEVICES, WHICH ARE DAMAGED DURING SITE CONSTRUCTION OPERATIONS, IMMEDIATELY.
- AFTER SITE GRADING AND CONSTRUCTION HAVE BEEN COMPLETED, ALL EXISTING TREES ADJACENT TO THE LOD LINE SHALL BE INSPECTED FOR INDICATIONS OF CROWN DIE-BACK (SUMMER INDICATOR), DAMAGE WITHIN RELEVANT CRITICAL ROOT ZONES, ANY DEAD WOOD OR OTHER CONDITIONS WHICH MIGHT BE HAZARDOUS SUCH AS TO PEDESTRIANS, BUILDINGS, UTILITY LINES, VEHICULAR ACCESS WAYS, OR PARKED VEHICLES.
 - SHOULD THERE BE EVIDENCE OF ANY DAMAGE TO TREE TRUNKS, BRANCHES, OR OTHER CRITICAL ROOT ZONE OF TREES WITHIN THE PROTECTED AREAS, OR TO ISOLATED SPECIMEN TREES TO BE PRESERVED, THE DAMAGE SHALL BE EXAMINED WITHIN A PERIOD OF TWO (2) DAYS FROM THE DATE OF OBSERVANCE BY A LICENSED TREE CARE PROFESSIONAL. EXPOSED ROOTS SHOULD BE COVERED IMMEDIATELY TO A DEPTH OF 6-8 INCHES WITH SOIL, PREFERABLY MIXED WITH 50% PEAT MOSS OR LEAF MOLD.
 - THE CONTRACTOR SHALL REMOVE DAMAGED, DEAD, OR DYING TREES OR LIMBS ONLY IF THE TREES OR LIMBS POSE AN IMMEDIATE SAFETY HAZARD TO BUILDINGS, UTILITY LINES, VEHICLES, OR ACCESS AND EGRESS DRIVES OR PEDESTRIAN AREAS. TREES DESIGNATED FOR PRUNING OR REMOVAL SHALL BE PRUNED OR REMOVED USING EQUIPMENT AND METHODS WHICH WILL NOT DAMAGE OR DESTROY ADJACENT LARGE TREES OR UNDERSTORY TREES OR SHRUBS DESIGNATED FOR RETENTION.
- ALL TEMPORARY FOREST PROTECTION DEVICES WILL BE CAREFULLY REMOVED AFTER ALL GENERAL CONSTRUCTION, NECESSARY TREE SURGERY, REMOVAL OF DEBRIS, REGRADING AND RESEEDING OF SEDIMENT AND EROSION CONTROL DISTURBANCE HAVE BEEN COMPLETED AND ACCEPTANCE AND APPROVAL OF THE WORK AND SITE CONDITIONS HAVE BEEN GIVEN BY THE DPZ.

AFFORESTATION/REFORESTATION PLANTING SEQUENCE OF OPERATIONS

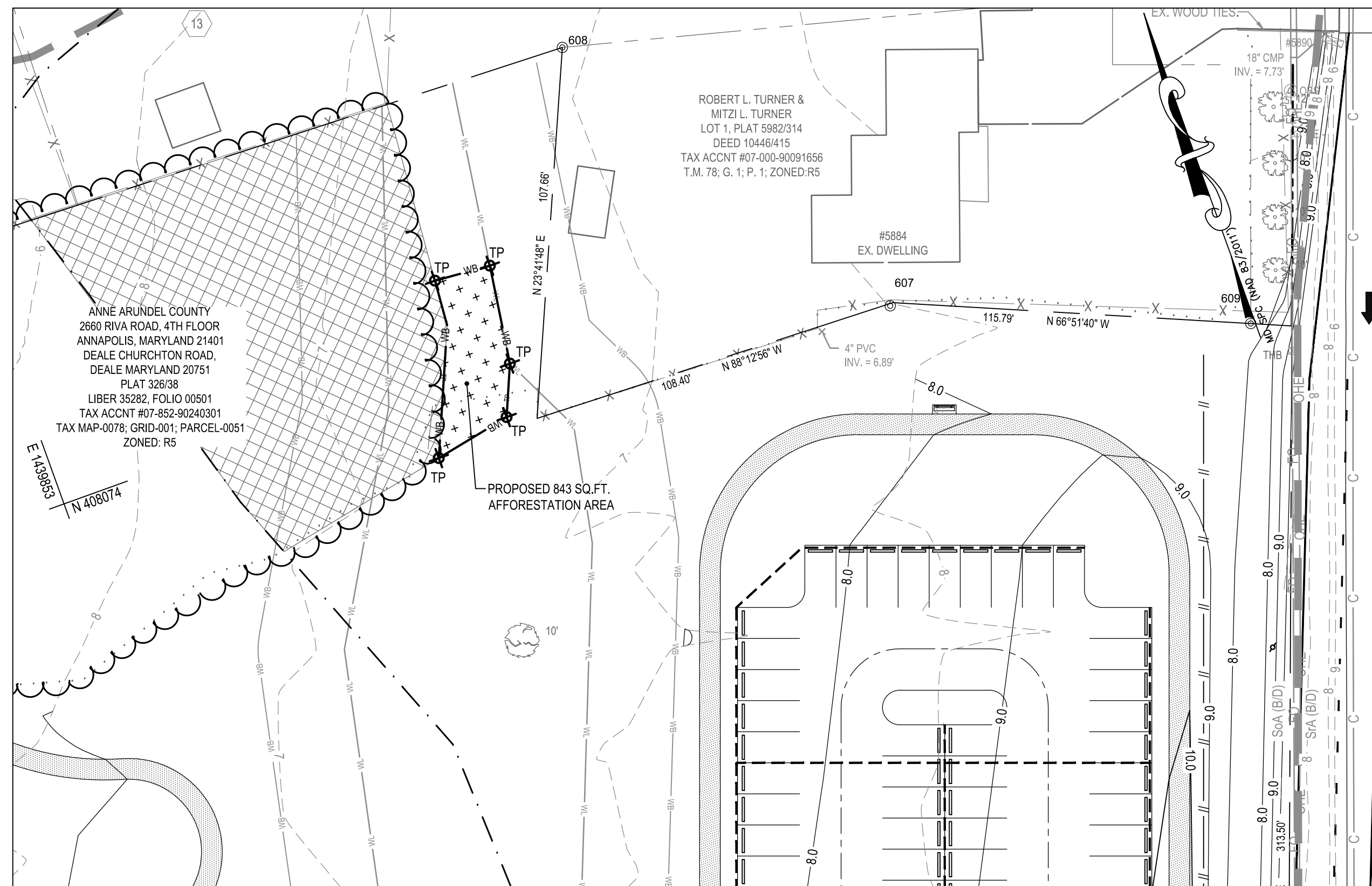
ALL CONSTRUCTION ACTIVITIES, PRACTICES, TECHNIQUES, ETC., SHALL BE IN CONFORMANCE WITH THE MARYLAND FOREST CONSERVATION PROGRAM, AS SPECIFIED IN THE STATE FOREST CONSERVATION TECHNICAL MANUAL. (THIS MANUAL SUPERCEDES ANY DISCREPANCIES BETWEEN IT AND THESE PLANS.)

- THE CONTRACTOR(S) SHALL INFORM THE ANNE ARUNDEL COUNTY DEPARTMENT OF PLANNING AND ZONING (DPZ) WHEN PLANTING OPERATIONS ARE TO BEGIN.
- DETERMINE STORAGE AREAS FOR MATERIALS AND EQUIPMENT. OBTAIN APPROVAL OF LOCATION FROM OWNER AND THE DPZ.
- PRIOR TO BEGINNING ANY PLANTING, THE SOILS WITHIN THE AREA(S) DESIGNATED FOR AFFORESTATION OR REFORESTATION SHALL BE ANALYZED REGARDING THE FOLLOWING FEATURES: NUTRIENT CONTENT, ORGANIC MATTER, STRUCTURE, PH AND CATION EXCHANGE CAPACITY. SOILS THAT HAVE BEEN ACTIVELY FORMED MAY REQUIRE EVALUATION FOR PESTICIDE OR HERBICIDE CONTAMINATION. THE LOCAL SOIL CONSERVATION SERVICE OR AGRICULTURAL EXTENSION SERVICE MAY PERFORM SUCH ANALYSIS. A MINIMUM OF THREE RANDOM SAMPLES SHOULD BE COLLECTED FOR THE ANALYSIS. AN ASSESSMENT OF SOIL MOISTURE SHOULD ALSO BE MADE AT THIS TIME. CORRECTIVE MEASURES SHALL BE MADE IN ACCORDANCE WITH ANALYSIS RESULTS AND RECOMMENDATIONS.
- THE CONTRACTOR, ASSISTED BY A REPRESENTATIVE OF WHITNEY, BAILEY, COX & MAGNANI, LLC (WBCM) SHALL STAKE (OR WIRE-FLAG) PLANTING AREA LIMITS AND PLANT LOCATIONS IN ACCORDANCE WITH THE PLAN AND DETAILS.
- PROVIDE AND PLANT ALL TREES OF THE SPECIES AND SIZES SPECIFIED AND IN ACCORDANCE WITH THE DETAILS(S) SHOWN ON THE FOREST CONSERVATION PLANS, UNLESS OTHERWISE DIRECTED BY THE ANNE ARUNDEL COUNTY DPZ. ANY SPECIES SUBSTITUTIONS SHALL BE APPROVED BY WBCM OR THE ANNE ARUNDEL COUNTY DPZ. THE CONTRACTOR IS URGED TO SEEK SUCH APPROVAL PRIOR TO ORDERING OR PLANTING.
- AT THE COMPLETION OF PLANTING, REMOVE ALL EXCESS MATERIALS AND MISCELLANEOUS DEBRIS FROM THE RESPECTIVE AREA(S) OF WORK.
- PROTECTION DEVICES TO PREVENT DAMAGE WITHIN PLANTED AREAS, ALL REFORESTATION AND/OR AFFORESTATION SITES MUST BE POSTED WITH APPROPRIATE SIGNS AND THE AREA(S) DELINEATED WITH APPROPRIATE PROTECTIVE FENCING. NEITHER CONSTRUCTION EQUIPMENT NOR STORAGE OF MATERIALS SHALL BE PERMITTED WITHIN THE PLANTED AREAS. DETAILS ARE SHOWN ON THE FOREST CONSERVATION PLANS REGARDING TYPICAL SIGN SIZE AND WORDING. NO PEDESTRIAN TRAFFIC SHALL BE ALLOWED WITHIN THE PROTECTED AREAS.
- ATTACHMENT OF SIGNS OR ANY OTHER OBJECTS TO TREES WITHIN THE PROTECTED AREAS IS PROHIBITED.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A QUALIFIED PROFESSIONAL UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____
DATE: _____

BID SET



CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.



AFFORESTATION PLANTING PLAN
SCALE: 1"=30'

Afforestation Plant Schedule

QTY	BOTANICAL NAME	COMMON NAME	SIZE(MIN.)	ROOT	REMARKS
1	Cornus florida	Flowering Dogwood	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
1	Ilex opaca	American Holly	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
1	Nyssa sylvatica	Black Gum	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
2	Quercus alba	White Oak	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
1	Quercus phellos	Willow Oak	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
6	TOTAL				

- * CONTAINER GROWN - 1.2 & 3 Gallon sizes
- * ALL NURSERY STOCK SHOULD CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI-AZ60.1-2004).
- * ALL PLANT MATERIALS SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN NURSERY & LANDSCAPE ASSOCIATION (ANLA) STANDARDS.
- * ALL PLANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE LATEST EDITION OF HORTUS THIRD, BY L.H. BAILEY.
- * ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR FOLLOWING THE INSTALLATION COMPLETION.



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
_____ CHIEF ENGINEER	_____	_____ PROJECT MANAGER	_____
APPROVED	DATE	APPROVED	DATE
_____ ASSISTANT CHIEF ENGINEER	_____	_____ CHIEF, RIGHT-OF-WAY	_____

SCALE: 1" = 60'

DRAWN BY: R.S.S.

CHECKED BY: R.W.H.

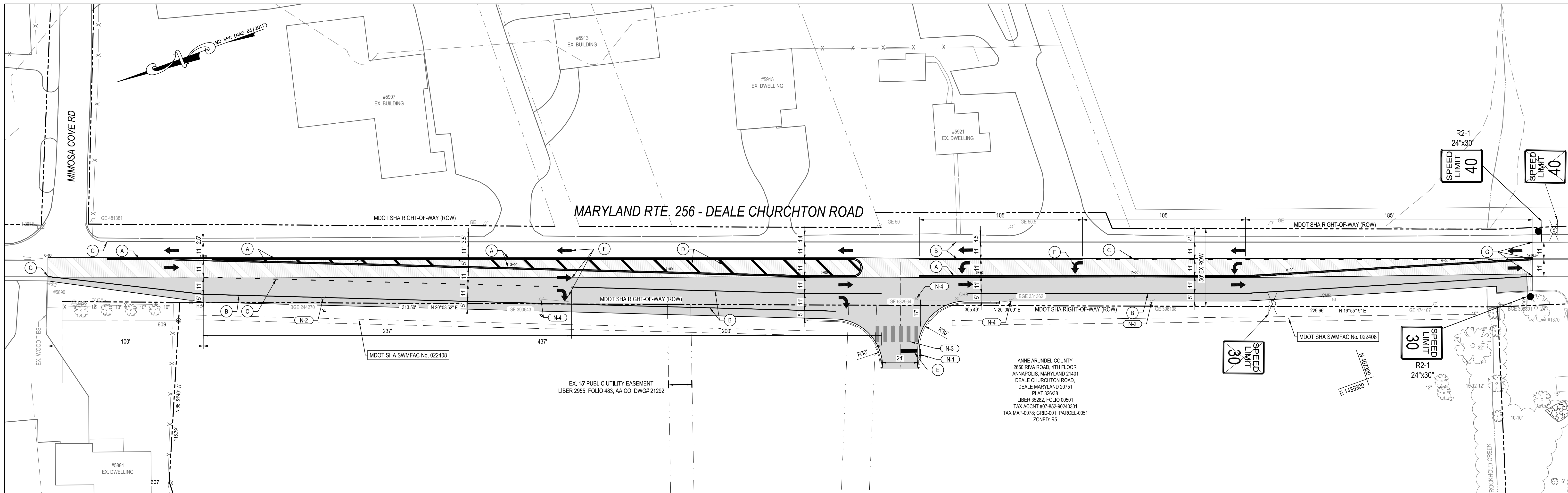
SHEET NO. 36 OF 47

PROJECT NO.: P582201

CONTRACT NO.: P582201

DEALE COMMUNITY PARK

FOREST CONSERVATION PLAN
NOTES AND DETAILS

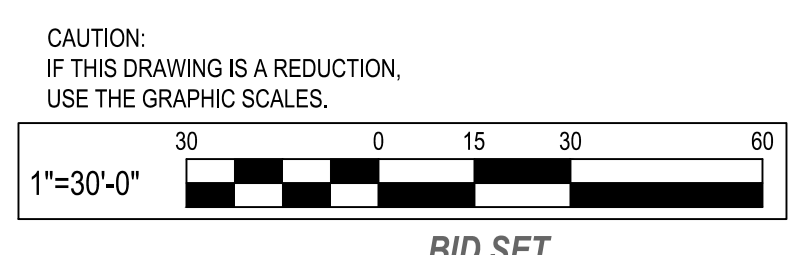


SIGNING AND PAVEMENT MARKING PLAN
SCALE: 1" = 30'

- LEGEND**
- ← LANE USE
 - ⊙ EXISTING SIGN
 - ⊙ PROPOSED SIGN & POST(S)
 - ⊙ SIGN PANEL AND SUPPORT(S)
 - ⊙ TO BE REMOVED
 - ▨ PAVEMENT RECONSTRUCTION
 - ▨ MILL AND OVERLAY
 - ⓐ 5 IN. DOUBLE YELLOW SOLID RECESSED ALL-WEATHER PAVEMENT MARKING TAPE IN 6 IN. GROOVES.
 - ⓑ 5 IN. WHITE SOLID RECESSED ALL-WEATHER PAVEMENT MARKING TAPE IN 6 IN. GROOVE.
 - ⓒ 5 IN. WHITE SKIP RECESSED ALL-WEATHER PAVEMENT MARKING TAPE (3 FT. LINE, 9 FT. GAP) IN 6 IN. GROOVE.
 - ⓓ 15 IN. YELLOW SOLID SURFACE-APPLIED ALL-WEATHER PAVEMENT MARKING TAPE AT 45° WITH 20 FT. SPACING.
 - ⓔ 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
 - ⓕ WHITE PREFORMED THERMOPLASTIC LEGENDS AND SYMBOLS.
 - ⓖ TIE TO EXISTING PAVEMENT MARKING

CONSTRUCTION NOTES:

- N-1 REFER TO C302 FOR SIGN
- N-2 EXISTING EL. POLE TO BE RELOCATED.
- N-3 REFER TO SHEET NO. 06 FOR CROSSWALK MARKINGS.
- N-4 EXISTING EL. POLE WITH LEASED LIGHTING TO BE RELOCATED.



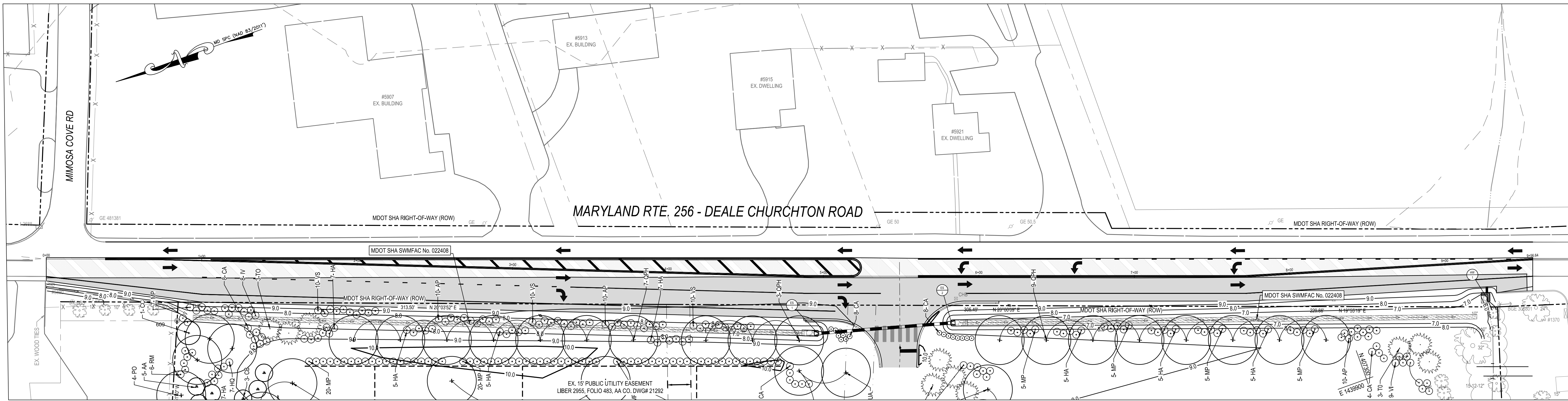
WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 30'		DRAWN BY: UJM	
CHECKED BY: JRS		SHEET NO. 38 OF 47	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
SIGNING AND PAVEMENT MARKING PLAN			

P:\2017\17141805\Drawings\07-Site\SHA_Access Permits\17141805-C302-Signing and Marking Plan.dwg Nov. 07, 2023 - 12:10pm Plot By: remith



LANDSCAPE PLAN
SCALE: 1" = 30'

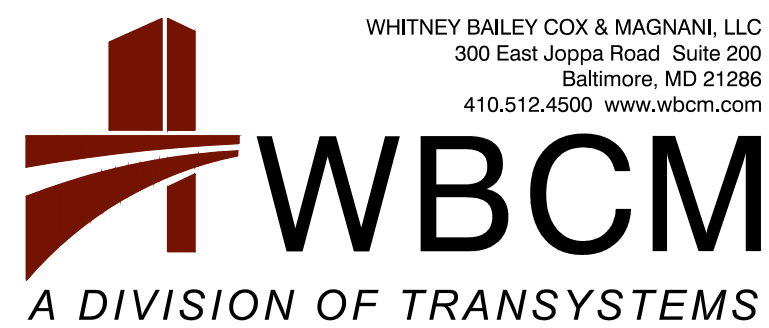
PLANTING LEGEND

- TREES
- SHRUB
- EVERGREEN TREES
- EXISTING TREES TO REMAIN
- LOD LIMITS OF DISTURBANCE
- FENCE
- TP TREE PROTECTION FENCE

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

1"=30'-0"

BID SET

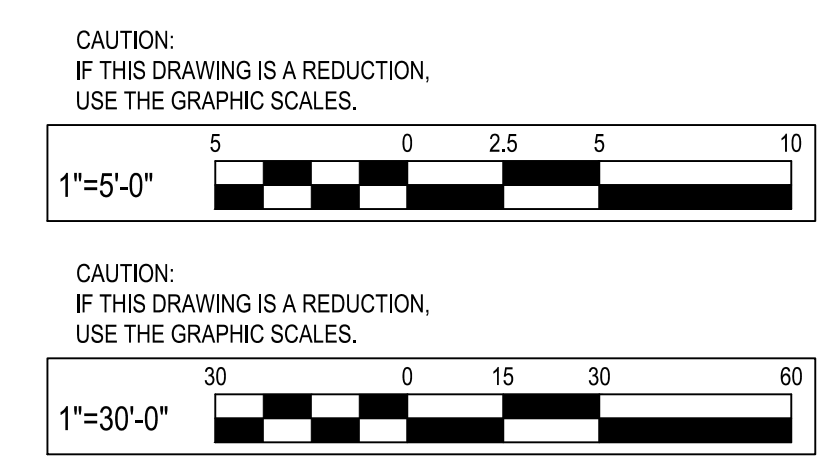
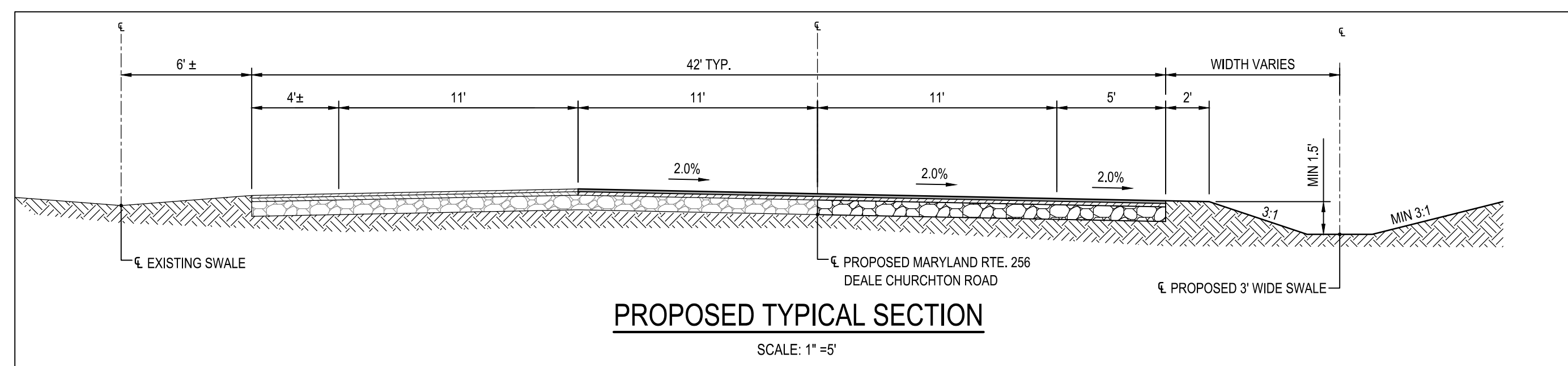
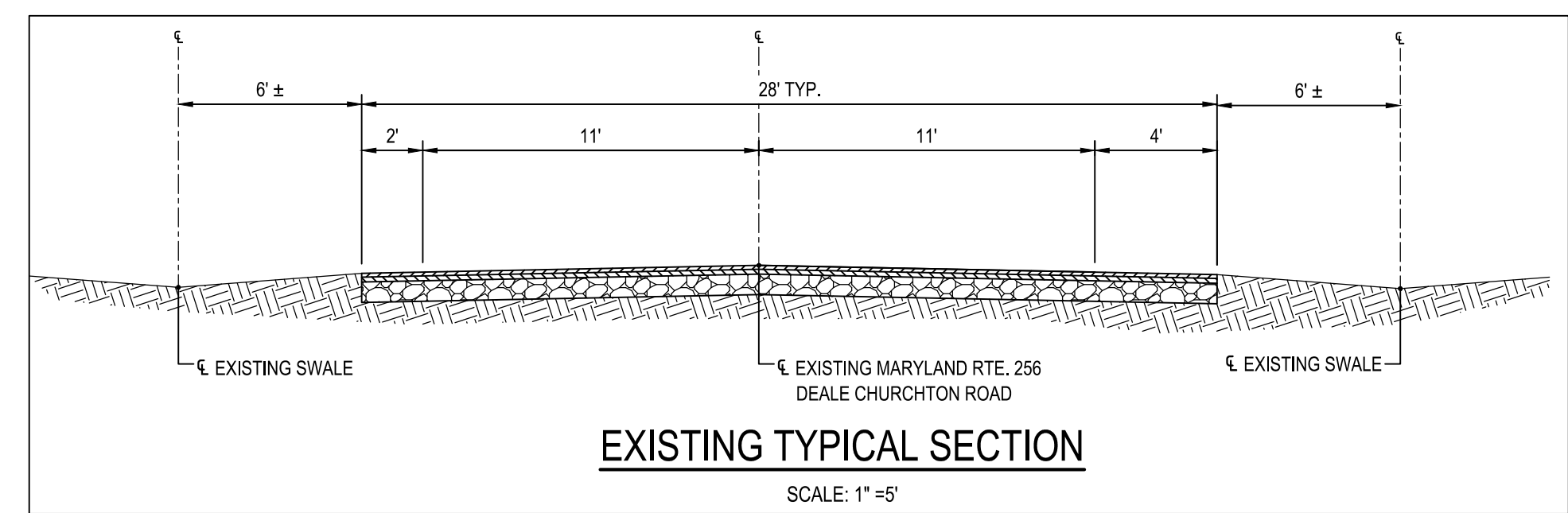
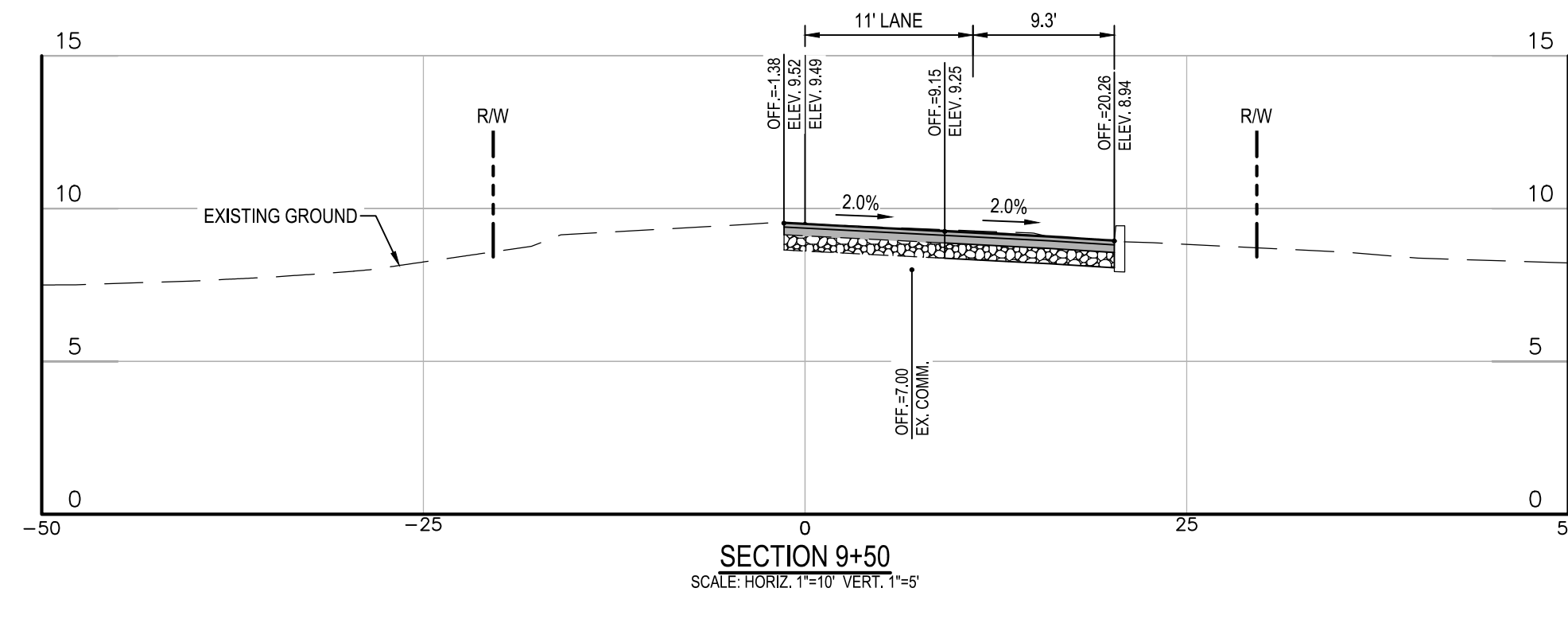
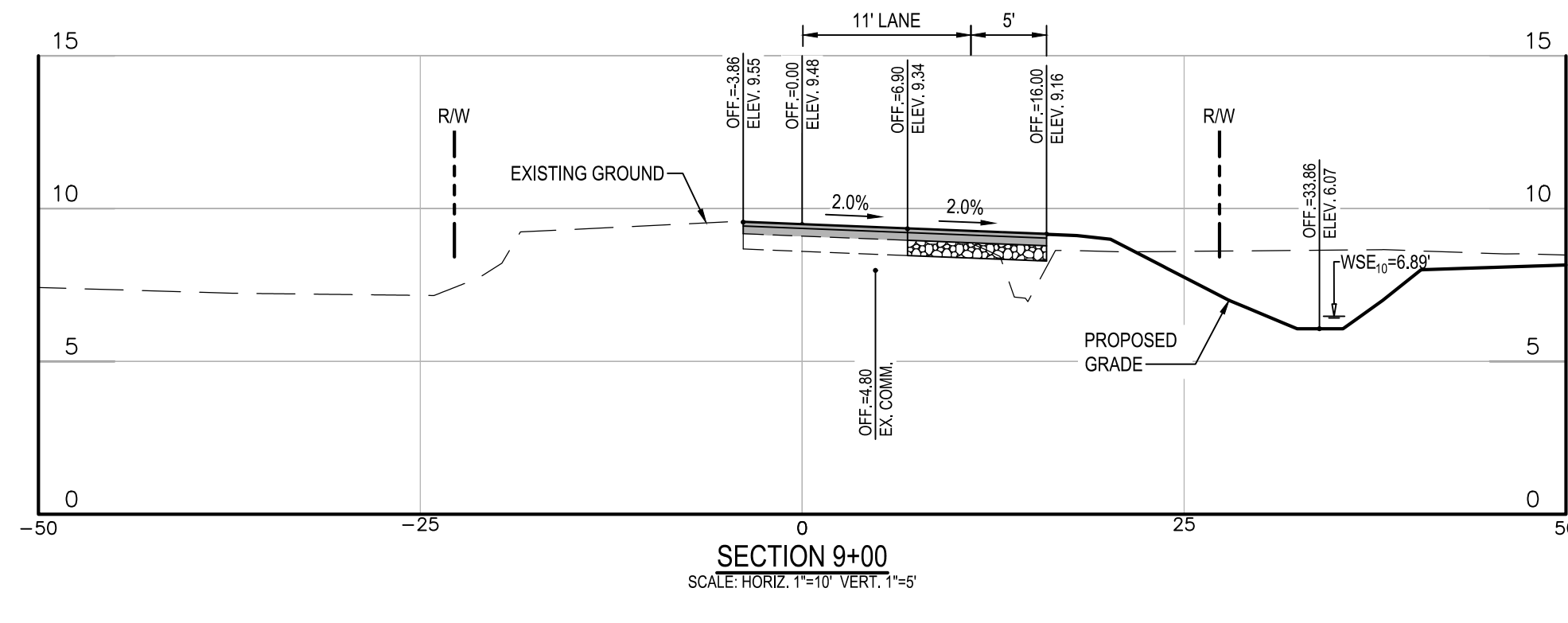
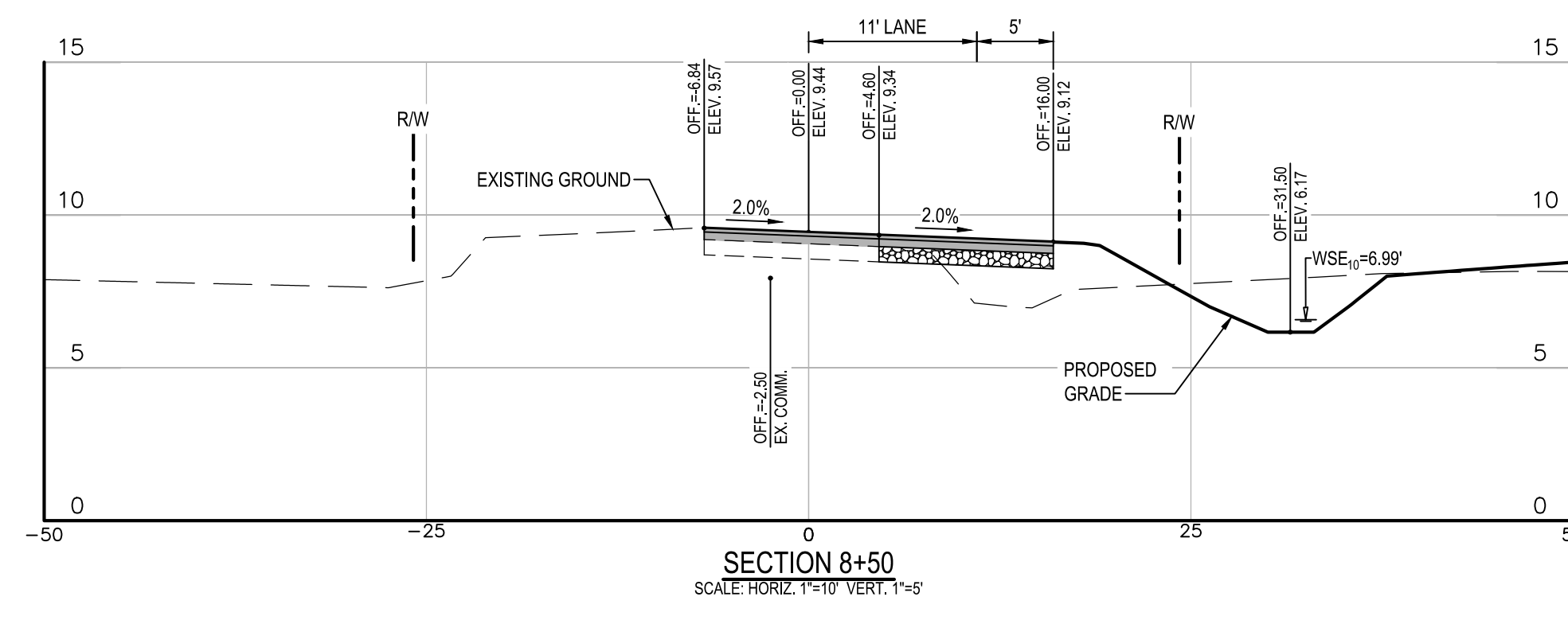
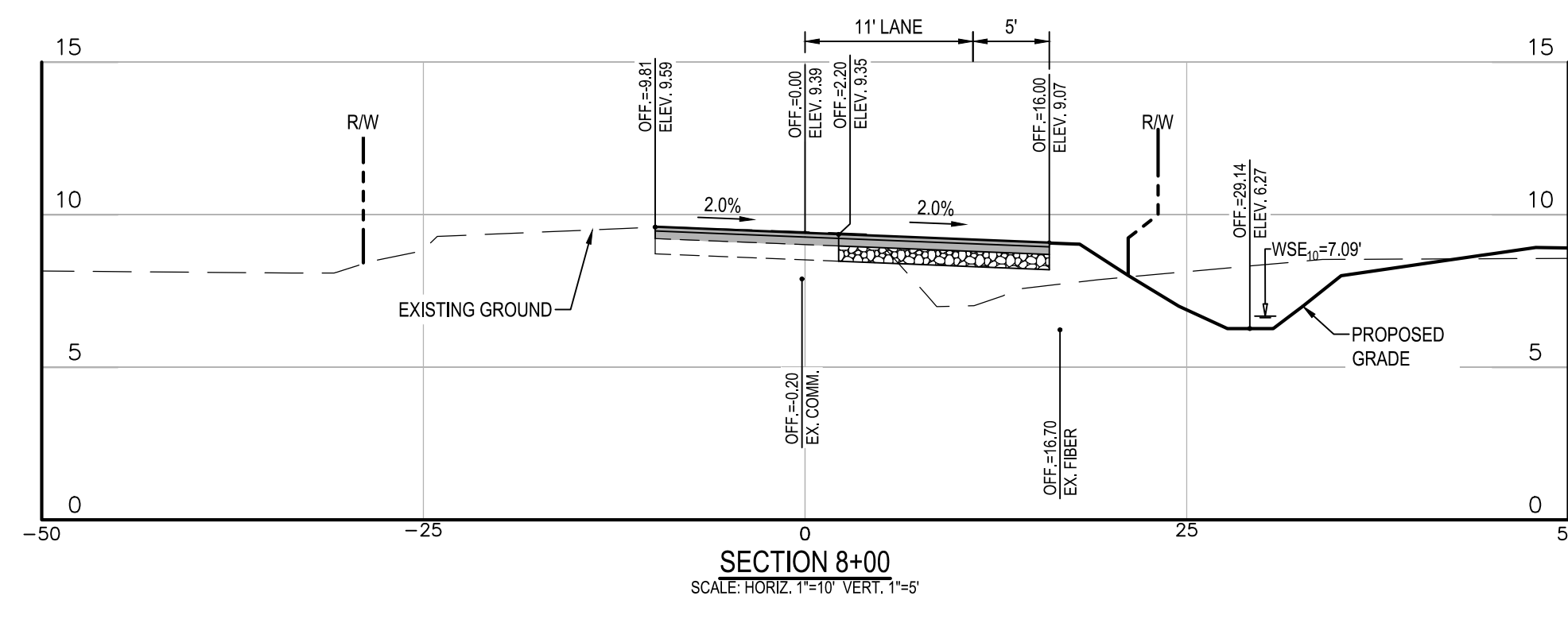
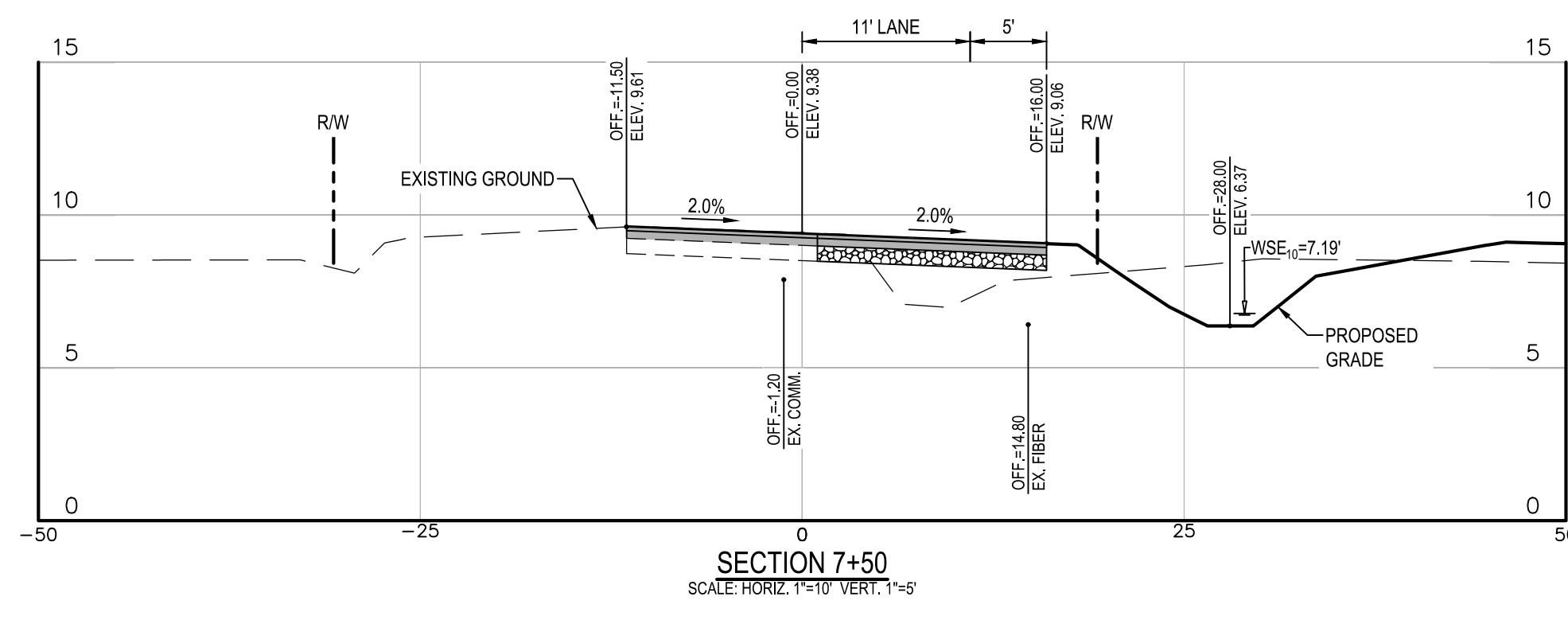
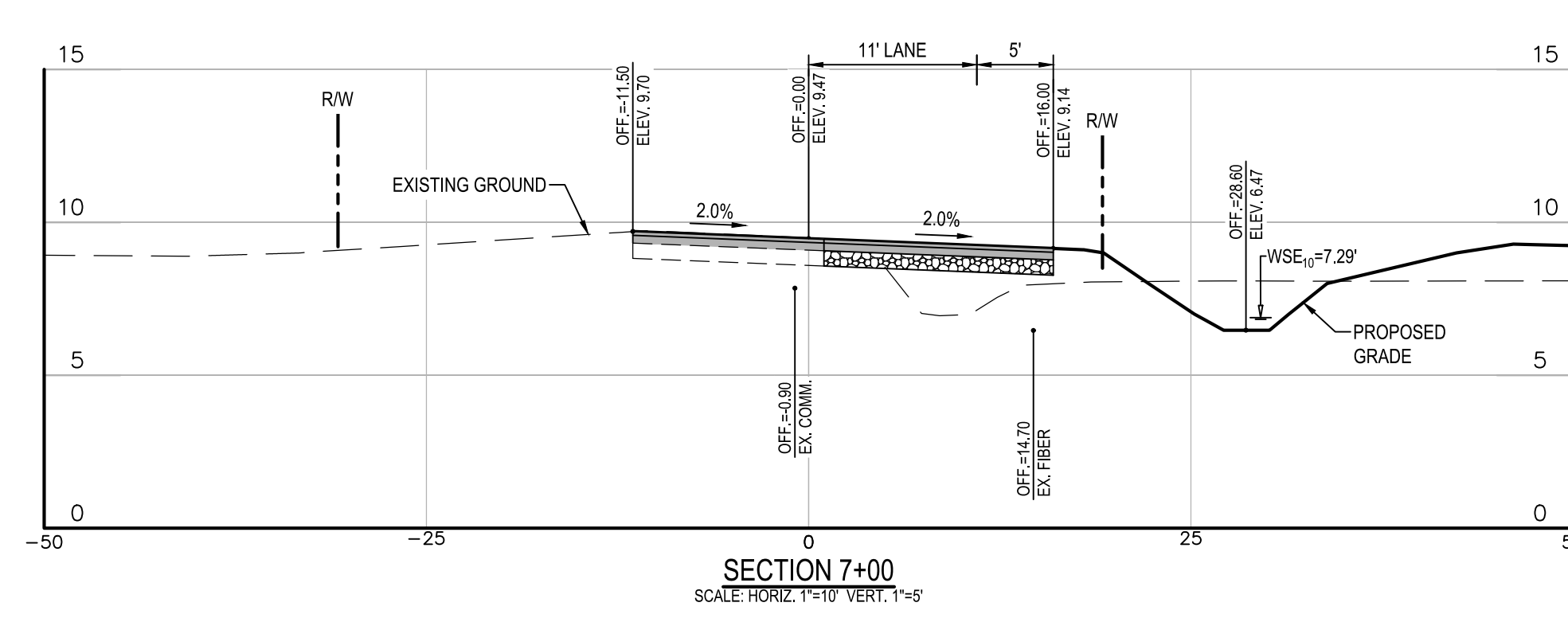
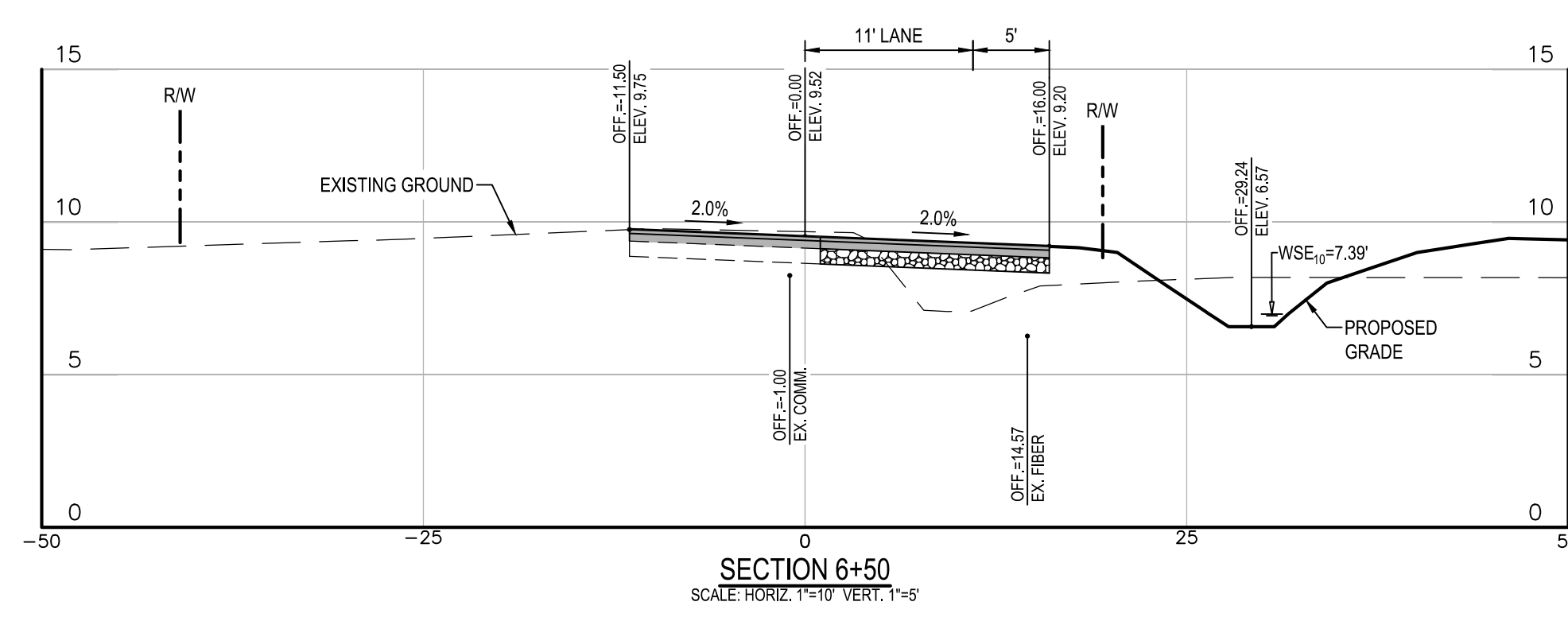
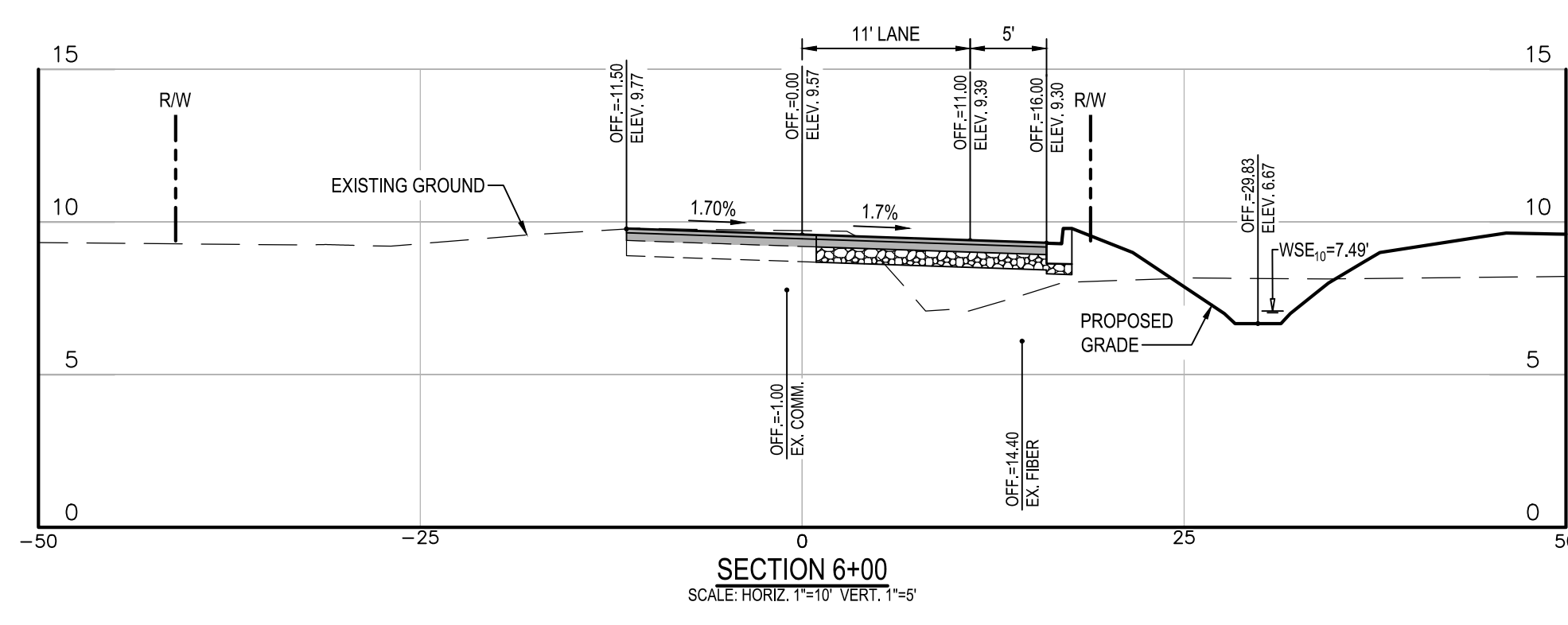


WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

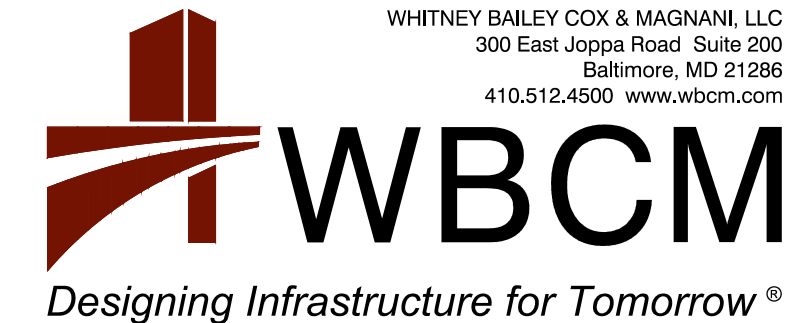
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 30'		DRAWN BY: UJM	
CHECKED BY: JRS		SHEET NO. 40 OF 47	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
LANDSCAPE PLAN			



BID SET



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
Designing Infrastructure for Tomorrow®

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

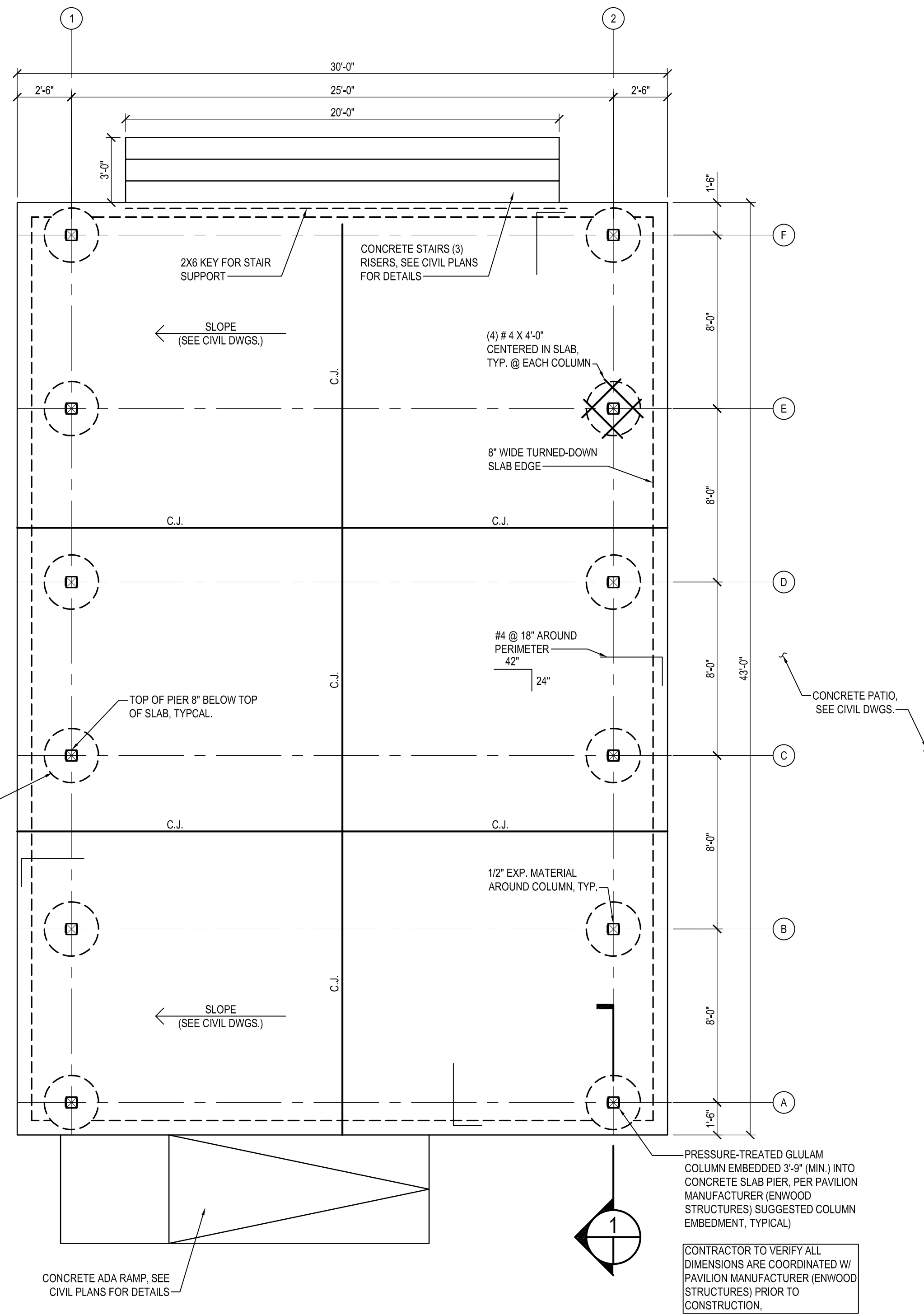
APPROVED _____ DATE _____	APPROVED _____ DATE _____
CHIEF ENGINEER	PROJECT MANAGER
APPROVED _____ DATE _____	APPROVED _____ DATE _____
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY

DEALE COMMUNITY PARK

ROAD CROSS SECTIONS

SCALE: 1"=10'	SHEET NO. 42 OF 47 PROJECT NO.: P582001 CONTRACT NO.: P582001
DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.	
PROJECT NO.: P582001	

P:\2017\17141805\Drawings\03-Struct\2017141805-Plan.dwg Nov. 07, 2023 - 3:07pm Plot By: dmarkakis



LARGE PAVILION (30' X 44') RALEIGH BY ENWOOD STRUCTURES FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

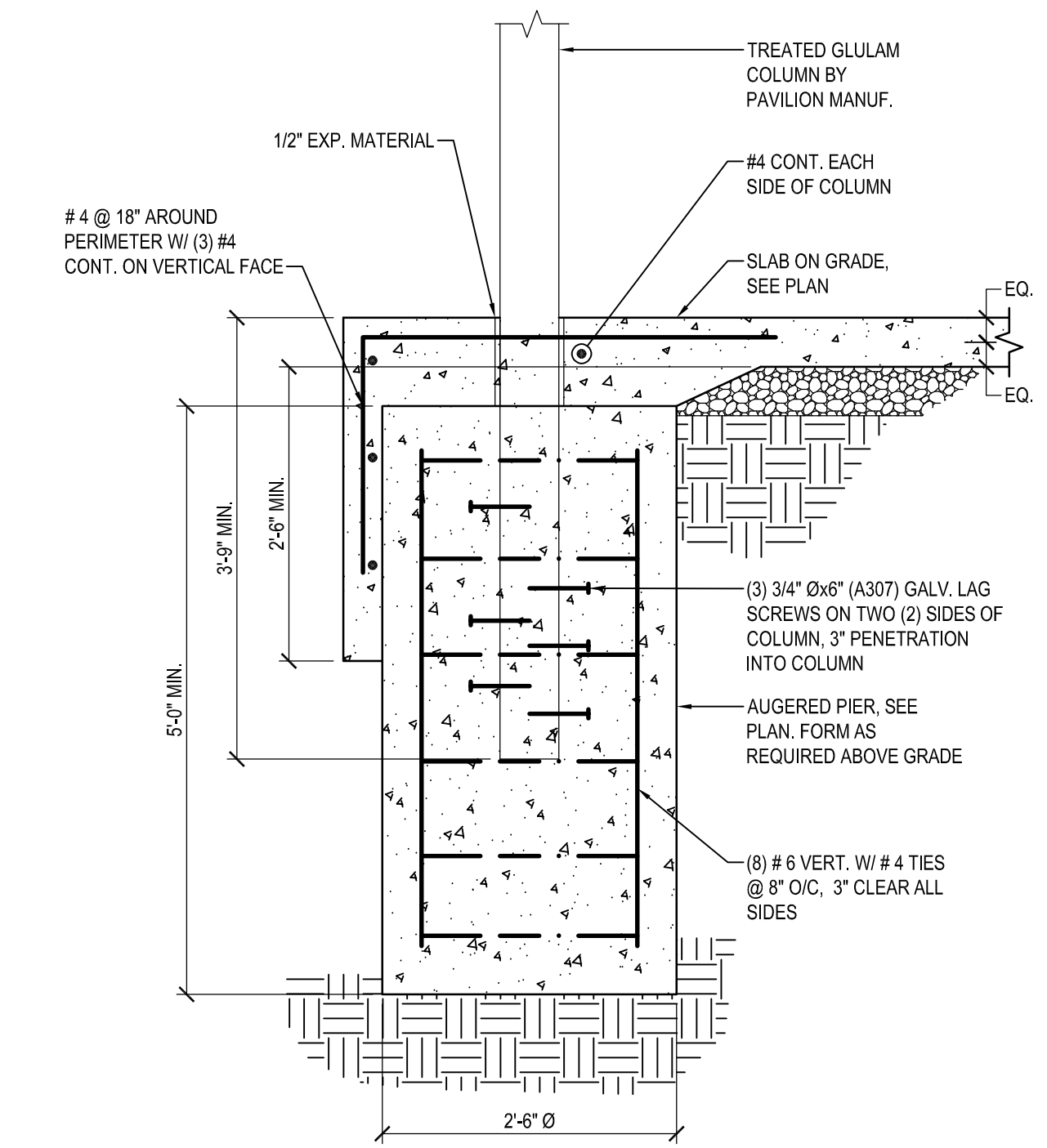
- PAVILION FOUNDATION PLAN NOTES**
- FOOTINGS HAVE BEEN DESIGNED FOR A SOIL BEARING PRESSURE OF 2,000 PSF. CONTRACTOR VERIFY SOIL CONDITIONS. SEE GENERAL NOTES.
 - BOTTOM OF TURNED-DOWN SLAB EDGE, SHALL BE 3" MINIMUM BELOW GRADE. CONTRACTOR COORDINATE WITH FINAL GRADES.
 - CONCRETE SLAB ON GRADE SHALL BE 5" THICK REINFORCED WITH #4 @ 12" (AND ADDITIONAL BARS WHERE NOTED). PLACE SLAB ON 4" GRAVEL SUB-BASE.
 - "C" INDICATES SLAB CONTROL JOINTS. SEE DETAIL.
 - SEE CIVIL DWGS. FOR FINISHED FLOOR ELEVATIONS AND EXTENT OF DEPRESSIONS AND FLOOR SLOPES IN CONCRETE SLABS.
 - FOUNDATIONS DESIGNED TO SUPPORT PRE-ENGINEERED / PRE-FABRICATED TIMBER-FRAMED PAVILION. FOUNDATIONS SHALL BE VERIFIED BY ENGINEER OF RECORD FOLLOWING RECEIPT OF MANUFACTURER SHOP DRAWINGS AND BASE REACTIONS.
 - SLAB SHALL BE CURED WITH AN APPROVED SEALING COMPOUND AND FINISHED WITH AN APPROVED NON-METALLIC HARDENER. CURING COMPOUNDS AND HARDENERS SHALL BE APPROVED PRIOR TO THEIR USE. AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - CONCRETE PIERS SHALL BE REINFORCED W/ (8) #6 VERT. & #4 TIES @ 8" O.C.

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

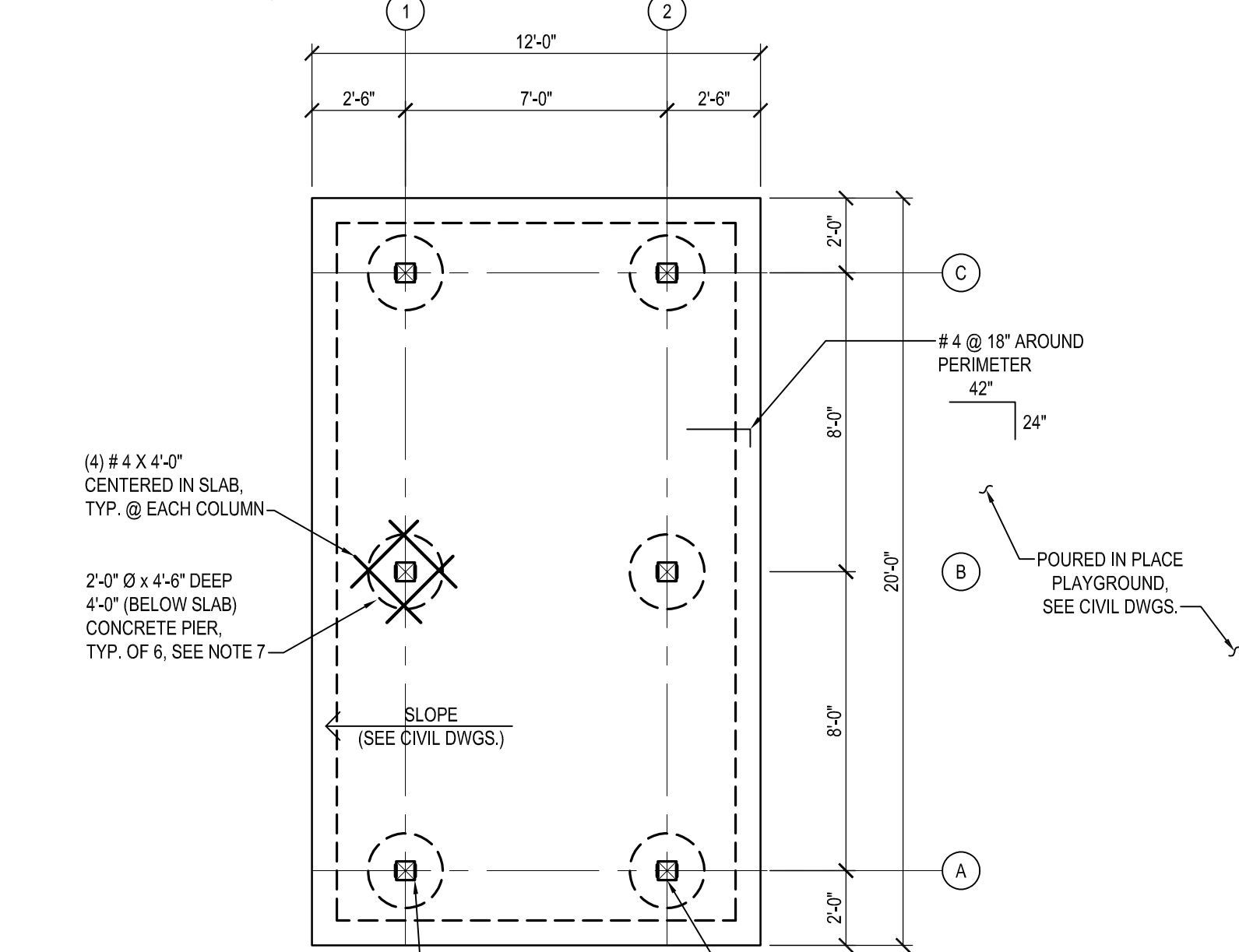


I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #200461 Expiration Date: 09/02/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE



LARGE PAVILION PIER DETAIL
SCALE: 3/4" = 1'-0"

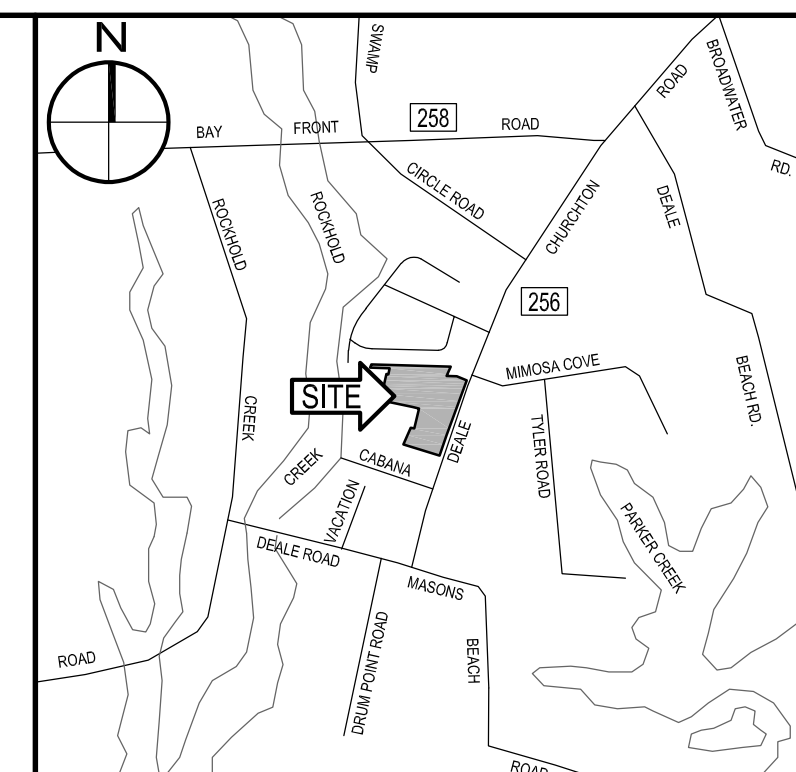


SMALL PAVILION (12' X 20') RALEIGH BY ENWOOD STRUCTURES FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

- PAVILION FOUNDATION PLAN NOTES**
- FOOTINGS HAVE BEEN DESIGNED FOR A SOIL BEARING PRESSURE OF 2,000 PSF. CONTRACTOR VERIFY SOIL CONDITIONS. SEE GENERAL NOTES.
 - BOTTOM OF TURNED-DOWN SLAB EDGE, SHALL BE 3" MINIMUM BELOW GRADE. CONTRACTOR COORDINATE WITH FINAL GRADES.
 - CONCRETE SLAB ON GRADE SHALL BE 5" THICK REINFORCED WITH #4 @ 12" (AND ADDITIONAL BARS WHERE NOTED). PLACE SLAB ON 4" GRAVEL SUB-BASE.
 - SEE CIVIL DWGS. FOR FINISHED FLOOR ELEVATIONS AND EXTENT OF DEPRESSIONS AND FLOOR SLOPES IN CONCRETE SLABS.
 - FOUNDATIONS DESIGNED TO SUPPORT PRE-ENGINEERED / PRE-FABRICATED TIMBER-FRAMED PAVILION. FOUNDATIONS SHALL BE VERIFIED BY ENGINEER OF RECORD FOLLOWING RECEIPT OF MANUFACTURER SHOP DRAWINGS AND BASE REACTIONS.
 - SLAB SHALL BE CURED WITH AN APPROVED SEALING COMPOUND AND FINISHED WITH AN APPROVED NON-METALLIC HARDENER. CURING COMPOUNDS AND HARDENERS SHALL BE APPROVED PRIOR TO THEIR USE. AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - SLAB SHALL BE CURED WITH AN APPROVED SEALING COMPOUND AND FINISHED WITH AN APPROVED NON-METALLIC HARDENER. CURING COMPOUNDS AND HARDENERS SHALL BE APPROVED PRIOR TO THEIR USE. AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

CONTRACTOR TO VERIFY ALL DIMENSIONS ARE COORDINATED W/ PAVILION MANUFACTURER (ENWOOD STRUCTURES) SUGGESTED COLUMN EMBEDMENT, TYPICAL.

CONTRACTOR TO VERIFY ALL DIMENSIONS ARE COORDINATED W/ PAVILION MANUFACTURER (ENWOOD STRUCTURES) SUGGESTED COLUMN EMBEDMENT, TYPICAL.



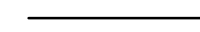



VICINITY MAP
SCALE: 1" = 2,000'

BID SET




ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: AS SHOWN		DRAWN BY: R.S.S.	
CHECKED BY: M.W.S.		SHEET NO. 44 OF 47	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
PAVILION FOUNDATION PLAN			

ELECTRICAL LEGEND


SITE

-  DIRECT BURIED CONDUIT
-  UNDERGROUND CONCRETE ENCASED DUCTBANK - SIZE AS INDICATED ON DWGS.
-  HANDHOLE
-  POLE MOUNTED SITE LIGHTING FIXTURE, TYPE AS NOTED

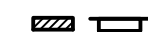


SWITCHES

-  WATERPROOF DIMMER SWITCH WITH 2 HOUR TIMER. MOUNT AT 4'-0" AFF TO TOP.
-  EXTERIOR PHOTOCCELL - WALL MOUNTED 11'-0" AFF
-  CONTACTOR IN NEMA 3R ENCLOSURE UON. MOUNT 5'-6" AFF TO TOP, UON.



OUTLETS

-  SURFACE MOUNTED DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; GROUND FAULT INTERRUPTING; WEATHERPROOF, WHILE IN USE. MOUNT 24" AFG, UON.




POWER

-  PANELBOARD - SURFACE, RECESSED MOUNTED, M.H. 6'-6" AFF TO TOP OF PANEL
-  TRANSFORMER
-  JUNCTION BOX - WALL MOUNTED

MISCELLANEOUS

-  DENOTES REFERENCE TO DRAWING NOTE
-  #/E.#.# DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER

CONDUIT

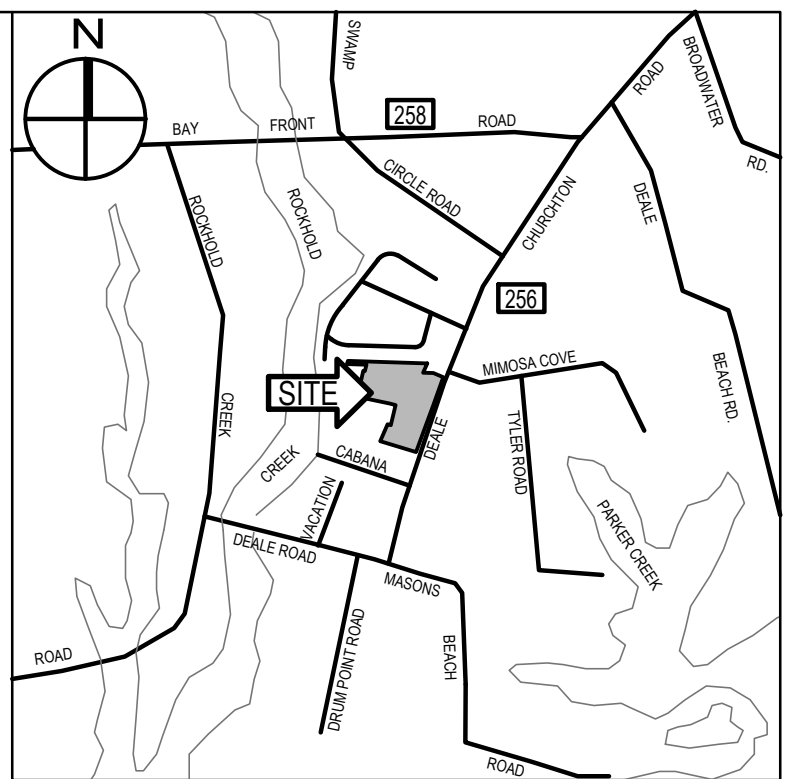
-  HOMERUN TO PANELBOARD; NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES
-  CONDUIT OR WIRE CONCEALED IN CEILING SPACE, WALL OR SURFACE MOUNTED WHERE NO CEILING EXISTS
-  CONDUIT OR WIRE ROUTED BELOW GRADE.

ABBREVIATIONS

- A AMPERE, AMPERES
- AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION
- AL ALUMINUM
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- BF BALLAST FACTOR
- BGE BALTIMORE GAS & ELECTRIC
- C CONDUIT
- CB CIRCUIT BREAKER
- DIA DIAMETER
- DWG DRAWING
- E EMERGENCY
- ECB ENCLOSED CIRCUIT BREAKER
- EPO EMERGENCY POWER OFF
- ETR EXISTING TO REMAIN
- EX EXISTING
- FLA FULL LOAD AMPERES
- GFI GROUND FAULT INTERRUPTING
- G GROUND
- GW GROUND WIRE
- HP HORSEPOWER
- IG ISOLATED GROUND
- IMC INTERMEDIATE METAL CONDUIT
- KCMIL THOUSAND CIRCULAR MILS
- KVA KILOWATT-AMPERES
- KW KILOWATT
- L LOW
- MCA MINIMUM CIRCUIT AMPERES
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY
- MOCP MAXIMUM OVERCURRENT PROTECTION
- MTD MOUNTED
- MH MOUNTING HEIGHT/MANHOLE
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
- NF/SS NONFUSED SAFETY SWITCH
- NIC NOT IN CONTRACT
- NO NUMBER
- OC ON CENTERS
- P POLE, POLES
- Ø PHASE
- PNL PANEL
- PVC POLYVINYL CHLORIDE
- RGS RIGID GALVANIZED STEEL
- RX REMOVE EXISTING
- SPD SURGE PROTECTION DEVICE
- TR TAMPER RESISTANT
- TTB TELEPHONE TERMINATION BOARD
- TYP TYPICAL
- UG UNDERGROUND
- V VOLT, VOLTS
- WP WEATHERPROOF
- W WATTS, WIRE, WIRES
- XFMR TRANSFORMER
- UON UNLESS OTHERWISE NOTED

GENERAL NOTES:

- THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS OF ALL OTHER TRADES ON THE PROJECT. ELECTRICAL OR SYSTEMS CONNECTIONS INDICATED ON ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, KITCHEN AND ALL OTHER DRAWINGS WHICH ARE PART OF THIS PROJECT, SHALL BE CONSIDERED A PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH SHALL NOT BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND EQUIPMENT AND DIMENSIONAL INFORMATION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF SERVICE EQUIPMENT AND WIRING.
- COORDINATE MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL PLANS, SECTIONS, ELEVATIONS AND CASEWORK DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTING OF WIRING AND CONDUITS AND SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING TO LIMIT VOLTAGE DROP TO 3%%. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE WIRING PER NEC. 20 AMPERE CIRCUITS SHALL BE SIZED AS FOLLOWS:



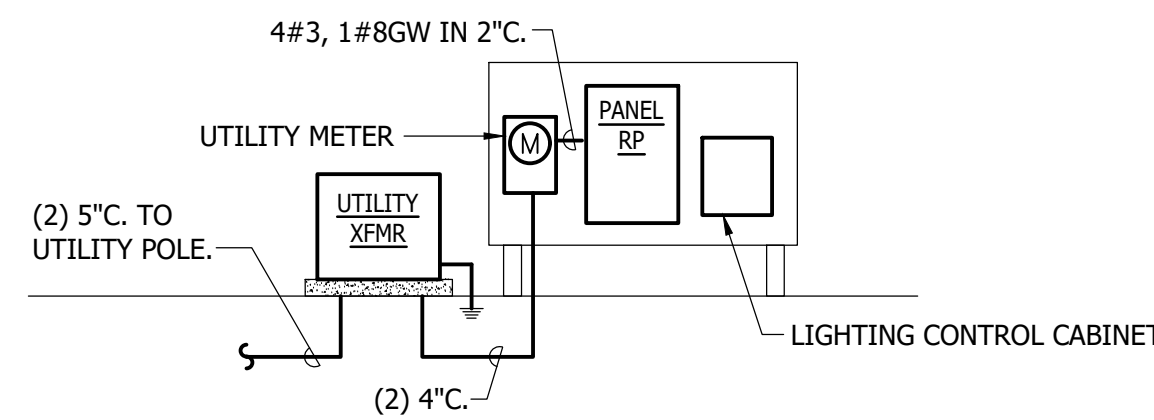
VICINITY MAP
SCALE: 1" = 2,000'

20 AMPERE CIRCUITS				
120 VOLT		277 VOLT		MINIMUM CONDUIT SIZE
WIRING LENGTH	WIRE SIZE	WIRING LENGTH	WIRE SIZE	
0' - 60'	#12	0' - 130'	#12	3/4"
60' - 100'	#10	130' - 210'	#10	3/4"
100' - 150'	#8	210' - 340'	#8	3/4"
150' - 240'	#6	340' - 540'	#6	3/4"
OVER 240'	#4	OVER 540'	#4	1"

NOTES:
BRANCH CIRCUITS IN PANELBOARDS WITH 200% RATED NEUTRAL BUS, ECM MOTORS AND ALL DIMMED LIGHTING CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.

WIRING AND CONDUIT SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT WIRING AND CONDUIT SIZES. CONTRACTOR SHALL PROVIDE SPLICE BLOCKS AND REDUCING PINS AS REQUIRED TO TERMINATE WIRING AND MAKE FINAL CONNECTIONS.

- ALL WIRING IS TO BE ALUMINUM WIRING; ALL BOXES SHALL BE BURIED; THE INSPECTION PLATE SHOULD BE WELDED; 10-YEAR WARRANTY



SCHEMATIC POWER RISER DIAGRAM

- NOTES:
- LIGHTING CONTROL CABINET SHALL BE IN LOCKABLE NEMA 3R ENCLOSURE.
 - REFER TO DETAIL 4/E7.1 FOR LIGHTING CONTROLS FOR PLAZA LIGHTS AND PAVILION LIGHTS.
 - PROVIDE DIMMING SWITCH FOR PAVILION LIGHTS.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	VOLTS	INPUT WATTS	LAMP	MOUNTING	REMARKS
P3	LED AREA LUMINAIRE WITH DIE CAST ALUMINUM HOUSING. INTEGRAL MOTION SENSOR. IP66, TYPE III DISTRIBUTION. WET LOCATION LISTED. 20-FT SQUARE STRAIGHT ALUMINUM POLE FINISH TO MATCH	RAB	ALED-L-3T-N/480/WS2	240, 1PH	80	LED 4000K, 10458 LUMENS	POLE MOUNTED	HI/LOW DIMMABLE
P4	SAME AS P3 EXCEPT TYPE IV DISTRIBUTION AND HIGHER OUTPUT P4PL - PLAZA LIGHTING FIXTURES NOT REQUIRED TO HAVE SENSOR. 20-FT SQUARE STRAIGHT ALUMINUM POLE FINISH TO MATCH	RAB	ALED-L-4T-N/480/WS2	240, 1PH	80	LED 4000K, 10616 LUMENS	POLE MOUNTED	HI/LOW DIMMABLE
P5	SAME AS TYPE P5, EXCEPT TYPE V DISTRIBUTION. 20-FT SQUARE STRAIGHT ALUMINUM POLE FINISH TO MATCH	RAB	ALED-L-5T-N/480/WS2	240, 1PH	80	LED 4000K, 11760 LUMENS	POLE MOUNTED	HI/LOW DIMMABLE
A	8' LED ENCLOSED AND GASKETED INDUSTRIAL FIXTURE WITH FIBERGLASS HOUSING, NEMA 4X GASKET, POLYMERIC LATCHES, POLYCARBONATE LENS, STAINLESS STEEL MOUNTING BRACKETS AND HARDWARE, ELECTRONIC DIMMABLE DRIVER; COLD WEATHER DRIVER	LITHONIA	FEM-L96-9000LM-LPPFL-MD-MVOLT-G210-40K-80CRI-WLF	120	53.4	LED 4000K, 8080 LUMENS	TIGHT TO STRUCTURE	PROVIDE DIMMING SWITCH MOUNTED AT PAVILION AREA ONLY TO FUNCTION AT DUSK

NOTES:

- ALL LIGHTING FIXTURES SHALL BE DESIGN LIGHTS CONSORTIUM (DLC) QUALIFIED PRODUCTS LISTED (QPL) OR ENERGY STAR.
- REFER TO SPECIFICATIONS FOR ADDITIONAL LED AND DRIVER INFORMATION. PROVIDE DRIVERS FOR VOLTAGE AS INDICATED.
- FIRST NAMED PRODUCT IS BASIS OF DESIGN. PROVIDE PRODUCTS WHICH INCLUDE ALL FEATURES AND ACCESSORIES AS INDICATED IN THE DESCRIPTION AND MODEL NUMBER OF THE BASIS OF DESIGN PRODUCT.
- FIXTURE SHALL BE PROVIDED WITH INTEGRAL PHOTOCCELL AND MOTION SENSOR RATED FOR MINIMUM 40 FOOT MOUNTING HEIGHT. MOTION SENSOR SHALL BE PIR TYPE WITH HIGH/LOW/OFF. WATTSTOPPER FSP-2X SERIES OR EQUAL. SEQUENCE OF OPERATION: FIXTURE SHALL ONLY OPERATE FROM DUSK TO DAWN. WHEN MOTION IS DETECTED WITHIN THE SENSOR'S COVERAGE AREA, FIXTURE SHALL BE IN "HIGH MODE" LEVEL. WHEN NO MOTION IS DETECTED FOR THE DURATION OF THE TIME DELAY SETTING (FACTORY PRESET AT 5 MINUTES), THE LIGHTS WILL GO TO THE SELECTABLE LOW MODE (30% OUTPUT). LIGHTS SHALL TURN OFF AFTER 1 HOUR OF NO MOTION. PROVIDE OWNER WITH FSIR-100 HANDHELD REMOTE TOOL FOR SETTING UP THE FSP-2X1. PROVIDE TRAINING TO FOR CHANGING ADJUSTABLE SETTINGS.

PANEL RP																	
MOUNTING: FREESTANDING NEMA 4X SS																	
VOLTAGE: 240/120V, 1 PH, 3W																	
60 AMPERE BUS				60 A MCB				100% RATED NEUTRAL BUS				25,000 A.I.C.					
CONN KVA	CKT	DESCRIPTION	BREAKER P	AMPS	NO	SIZE	GND	C	CKT	DESCRIPTION	BREAKER P	AMPS	NO	SIZE	GND	C	CONN KVA
0.4	1	PAVILLION LTG	1	20	2	8	10	2	2	PARKING LOT DRIVE	2	20	3	6	10	2	0.4
0.8	3	PAVILLION REC	1	20	2	8	10	2	4	-	-	-	-	-	-	-	0.4
0.2	5	CONTROLS	1	20	2	12	12	1	6	PARKING LOT SOUTH	2	20	3	6	10	2	0.4
	7	SPARE	1	20					8	-	-	-	-	-	-	-	0.4
	9	SPARE	1	20					10	PARKING LOT NORTH	2	20	3	6	10	2	0.6
	11	SPARE	1	20					12	-	-	-	-	-	-	-	0.6
	13	SPACE	1						14	SPACE	1						
	15	SPACE	1						16	SPACE	1						
	17	SPACE	1						18	SPACE	1						
	19	SPACE	1						20	SPACE	1						
TOTAL CONNECTED LOAD			4.1 KVA			KVA PER PHASE:			A	0.8	B	1.2	C	0.6			

BID DOCUMENTS 11/08/2023

Gipe Associates Inc.
Consulting Engineers
1220 East Joppa Road, Suite 223 Towson, MD 21286
Baltimore, Maryland (410)832-2420
Easton, Maryland (410)822-8688
W.O.# 21059

"THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO GIPE ASSOCIATES, INC. AND SHALL NOT BE ALTERED OR REUSED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF GIPE ASSOCIATES, INC. Copyright © 2022"

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
Designing Infrastructure for Tomorrow®

Eric Sueschid
Professional Engineer
44837
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #44837 Expiration Date: 12/22/2023

REVISIONS			
NO.	DESCRIPTION	BY	DATE

APPROVED DATE APPROVED DATE

CHIEF ENGINEER PROJECT MANAGER

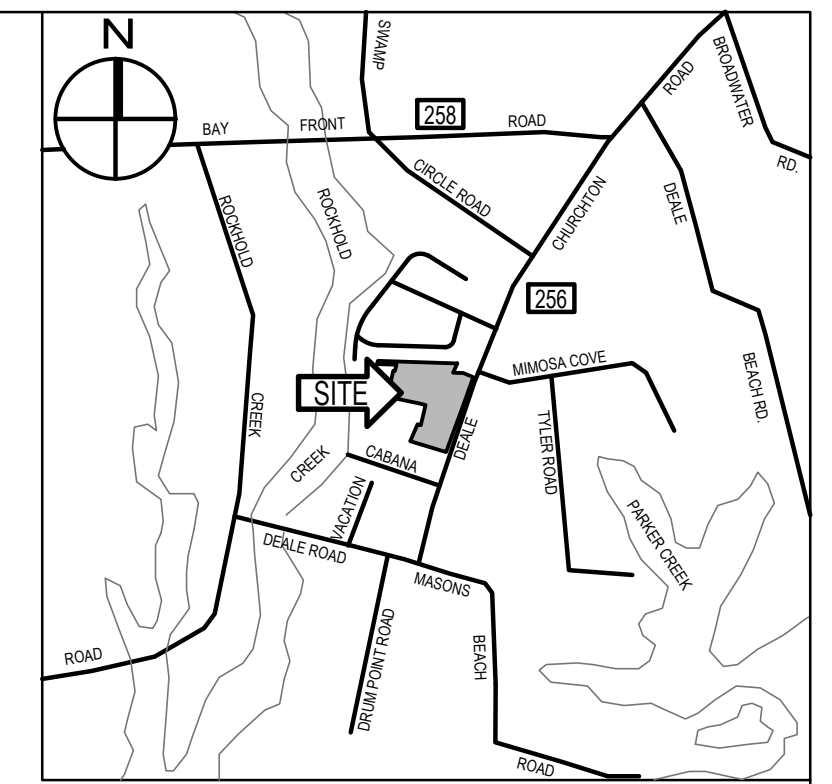
APPROVED DATE APPROVED DATE

ASSISTANT CHIEF ENGINEER CHIEF, RIGHT-OF-WAY

SCALE: NONE
DRAWN BY: J.L.P.
CHECKED BY: E.M.P.
SHEET NO. 45 OF 47
PROJECT NO.: P582001
CONTRACT NO.: P582001

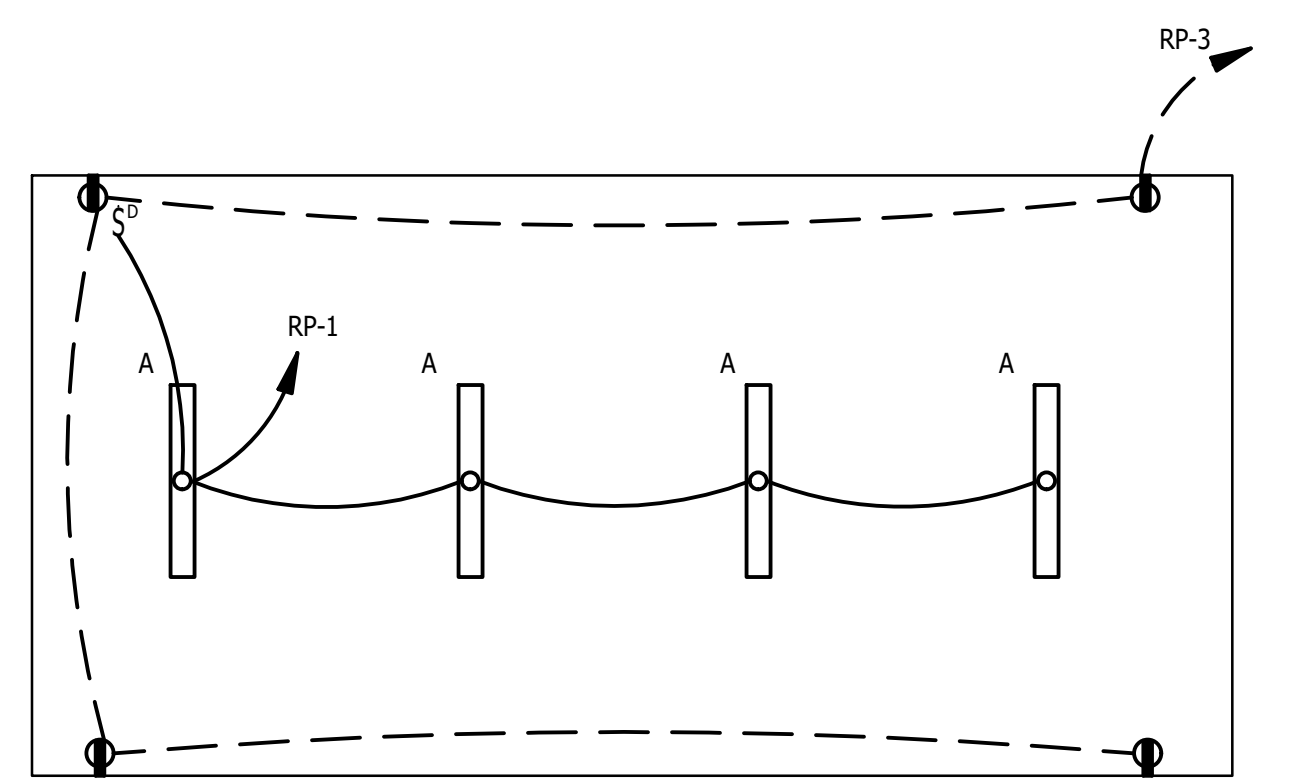
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS
DEALE COMMUNITY PARK
ELECTRICAL LEGEND

SCALE: 1" = 40'-0"
 DEALE, MD 20761
 LOT A, PLAT 6882314
 (DEED #79629)
 TAX ACCT #07-000-0007865
 T.M. 78, G. 1, P. 2, ZONED RS

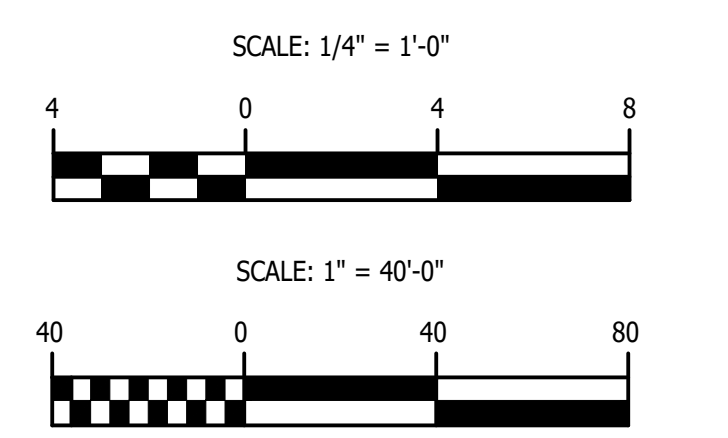


GENERAL NOTES:

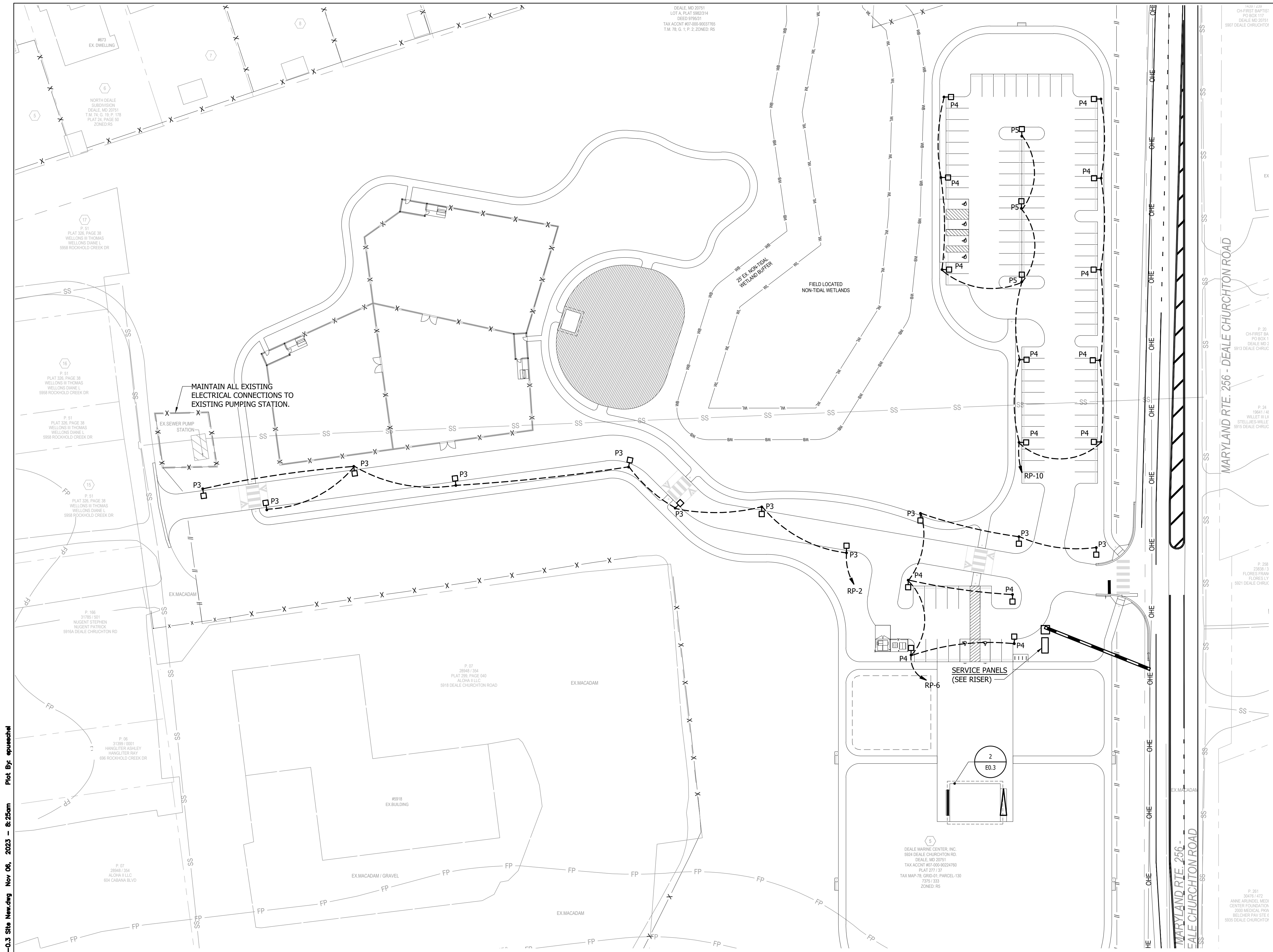
1. THE PROPOSED PATHWAYS ARE DIAGRAMMATIC IN NATURE. STORMWATER MANAGEMENT PONDS, PVIOUS PAVING, AND SIDEWALKS SHALL NOT BE DISTURBED WITHOUT ENGINEER OR OWNER APPROVAL.
2. SUBMIT A PROPOSED ROUTING PLAN TO OWNER AND ENGINEER FOR REVIEW. INCLUDE PROPOSED METHOD OF EXCAVATION/DRILLING/ETC WITH ROUTING PLAN.
3. CONDUITS SHALL BE 1" PVC CONDUIT (MINIMUM).
4. COORDINATE INSTALLATION OF ELECTRICAL WORK WITH EXISTING AND FINAL GRADE.
5. OBTAIN ALL PERMITS, UTILITY APPROVALS, ETC, FOR WORK, AS REQUIRED.
6. ALL ELECTRICAL WORK SHALL REMAIN, UNLESS OTHERWISE NOTED.
7. UTILITY FEEDS TO OTHER PARTS OF THE SITE SHALL BE SUITABLY PROTECTED AGAINST DAMAGE.
8. CONTRACTOR TO HIRE PRIVATE UTILITY MARKER TO TRACE ALL EXISTING UNDERGROUND ELECTRICAL WORK. MAINTAIN ALL EXISTING CIRCUITS THROUGH CONSTRUCTION.
9. CONCRETE ENCASE DIRECT BURIED CONDUITS ROUTED BENEATH PAVED SURFACES. PRIMARY DUCTBANK MAY BE DIRECTIONALLY DRILLED UNDER GRASS SURFACES.
10. REFER TO CIVIL PLANS FOR PHASING REQUIREMENTS.



2 PART PLAN - PAVILLION
 SCALE: 1/4" = 1'-0"



1 OVERALL SITE PLAN - NEW WORK
 SCALE: 1" = 40'-0"



Gipe Associates Inc.
 Consulting Engineers
 1220 East Joppa Road, Suite 223 Towson, MD 21286
 Baltimore, Maryland (410)832-2420
 Easton, Maryland (410)822-8688
 W.O.# 21059

WHITNEY BAILEY COX & MAGNANI, LLC
 300 East Joppa Road, Suite 200
 Baltimore, MD 21286
 410.512.4500 www.wbcm.com

WBCM
 Designing Infrastructure for Tomorrow®

Professional Engineer Seal for Eric Mueschel, License #44837, Expiration Date: 12/22/2023.

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
 DEPARTMENT OF PUBLIC WORKS

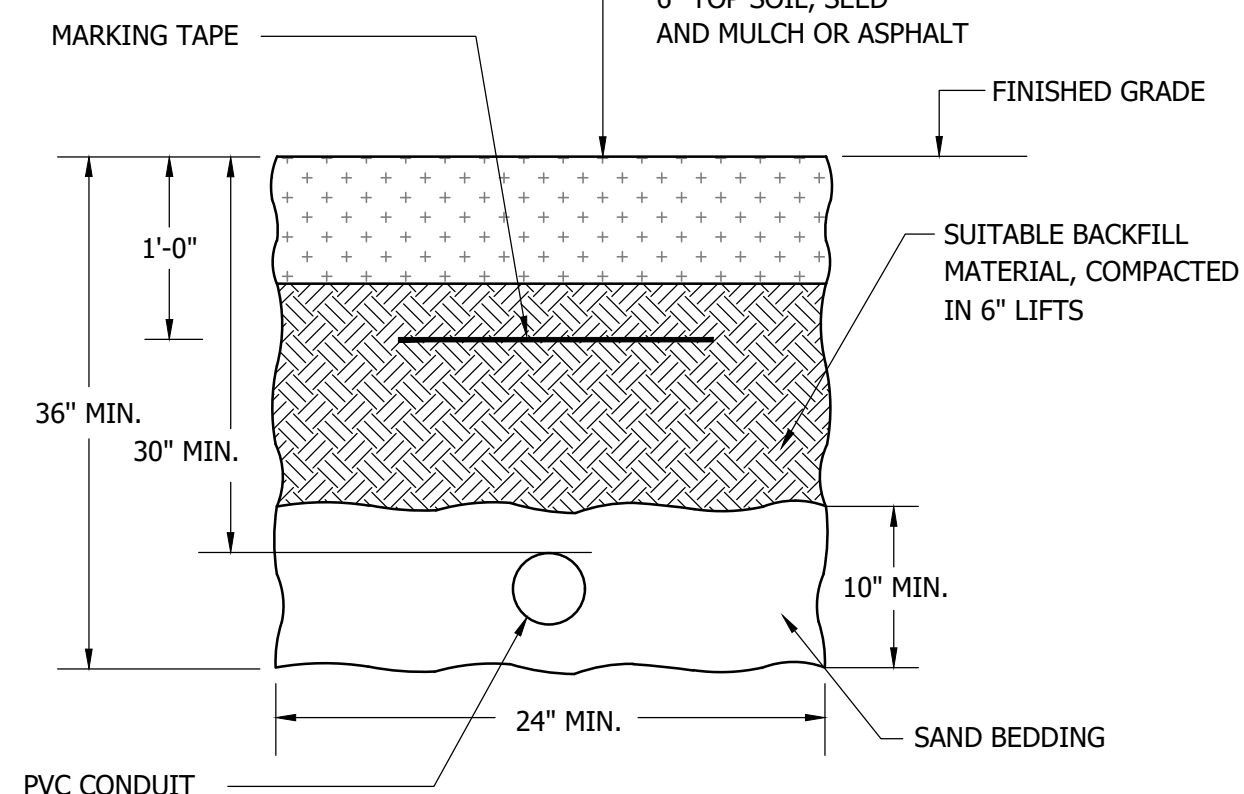
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	

SCALE: 1" = 40'-0"
 DRAWN BY: J.L.P.
 CHECKED BY: E.M.P.
 SHEET NO. 46 OF 47
 PROJECT NO.: P582001
 CONTRACT NO.: P582001

DEALE COMMUNITY PARK
 OVERALL SITE PLAN
 ELECTRICAL

P:\Jobs\2021\21059 AA Co. Deale Park\Y. DIMS\Y. ELEC\21059 E-0.3 Site New.dwg Nov 06, 2023 - 8:25am Plot By: gmuerschel

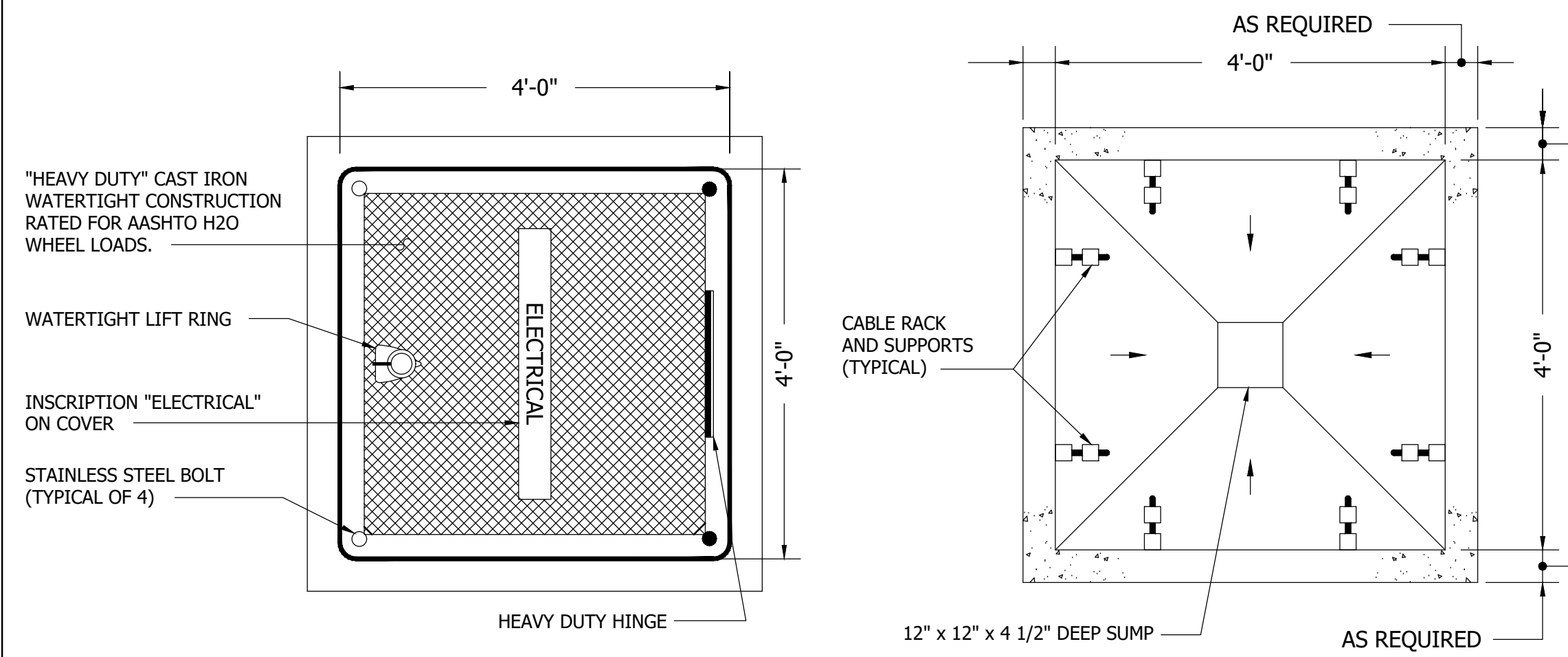
"THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO GIPE ASSOCIATES, INC. AND SHALL NOT BE ALTERED OR REUSED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF GIPE ASSOCIATES, INC. Copyright © 2022"



NOTE:
PROVIDE 4" MINIMUM CONCRETE ENCASEMENT UNDER PAVED/PARKING AREAS.

1 TYPICAL DIRECT BURIED PVC CONDUIT

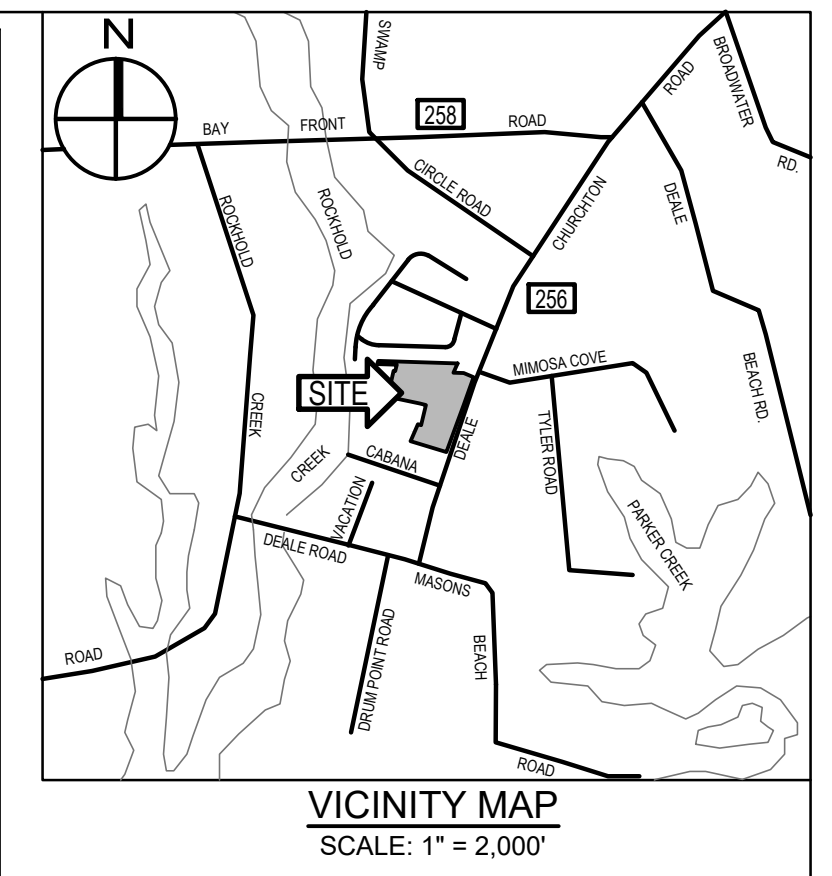
SCALE: NONE



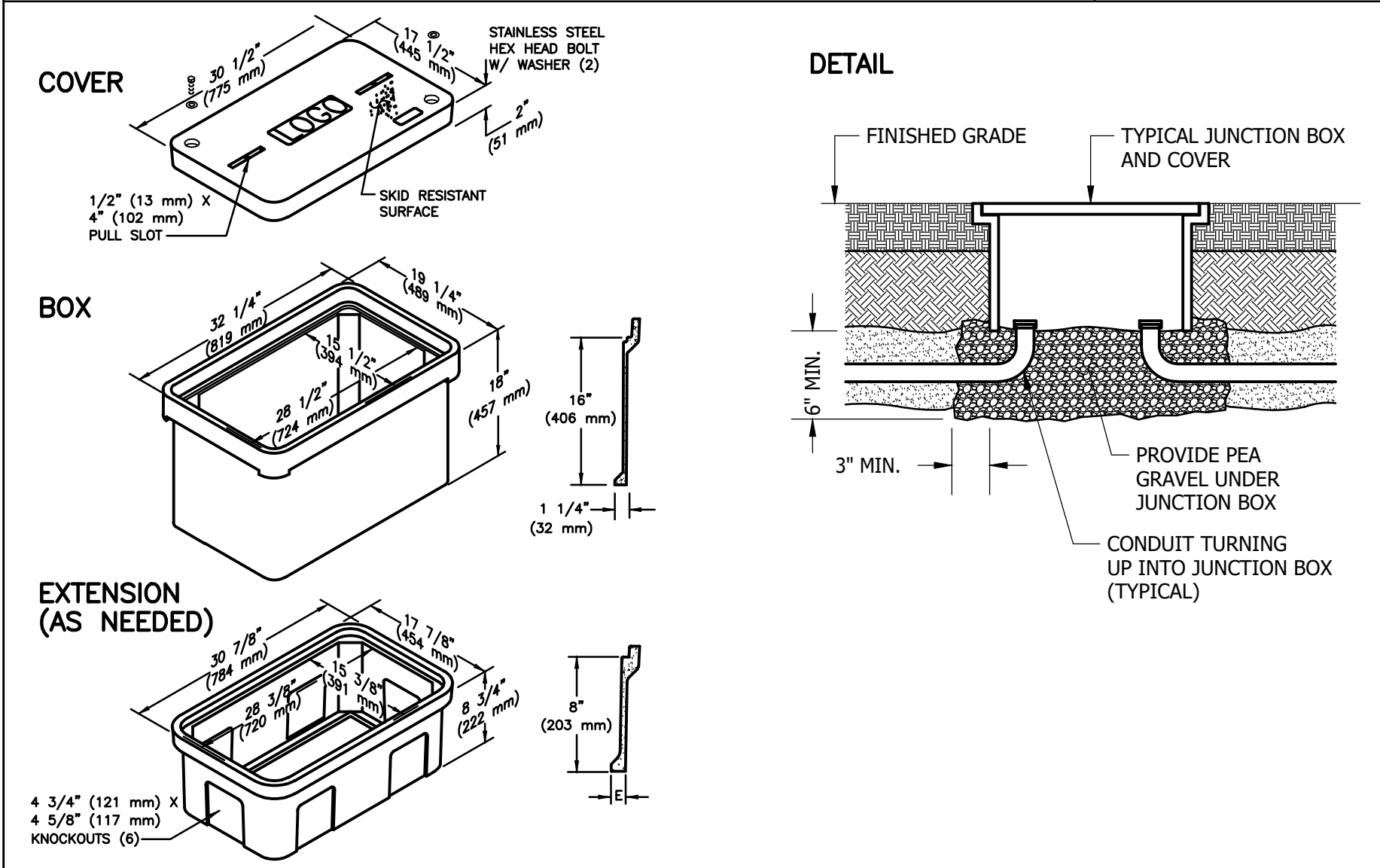
COVER

2 TYPICAL ELECTRIC HANDHOLE PLAN

SCALE: NONE

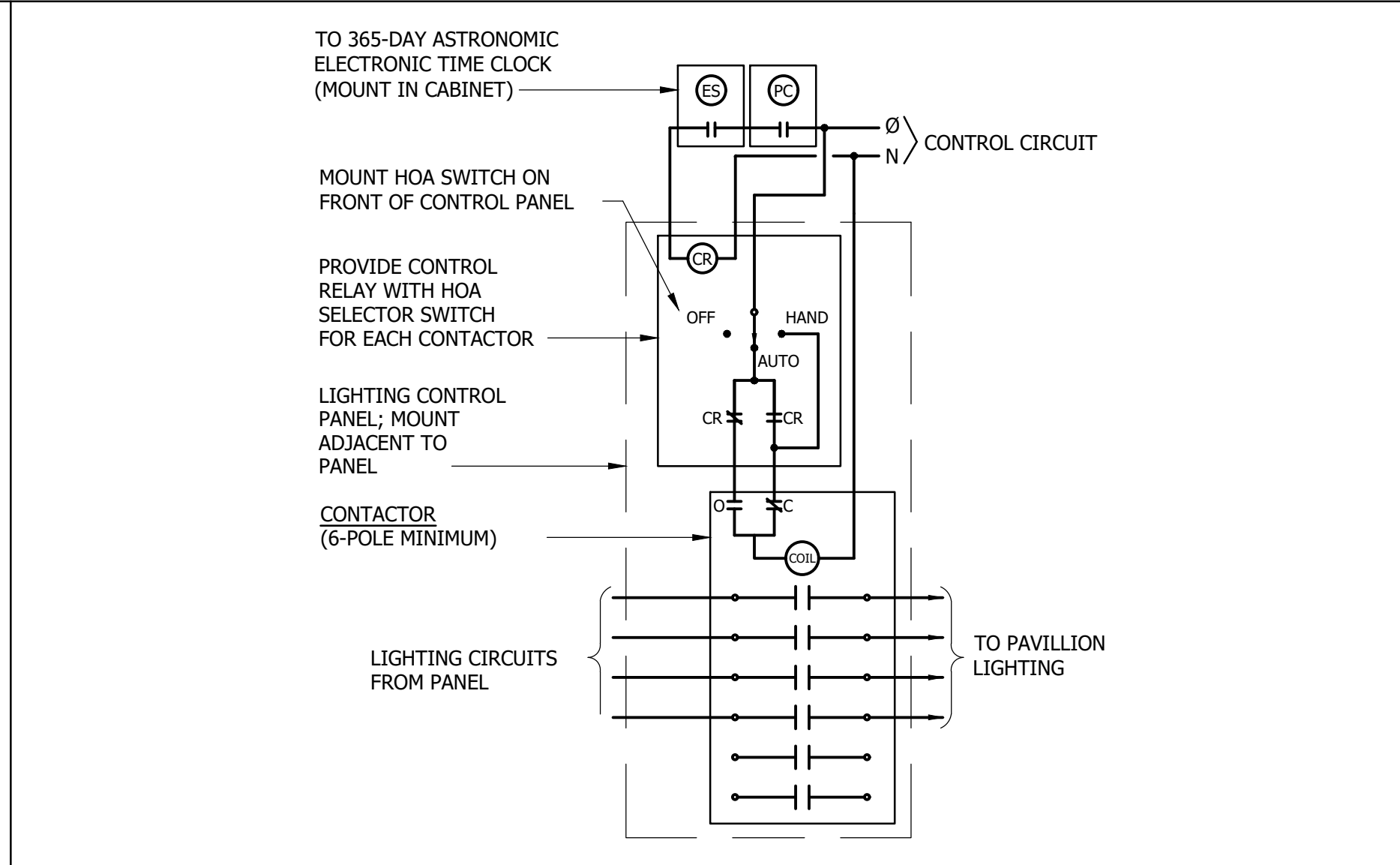


VICINITY MAP
SCALE: 1" = 2,000'



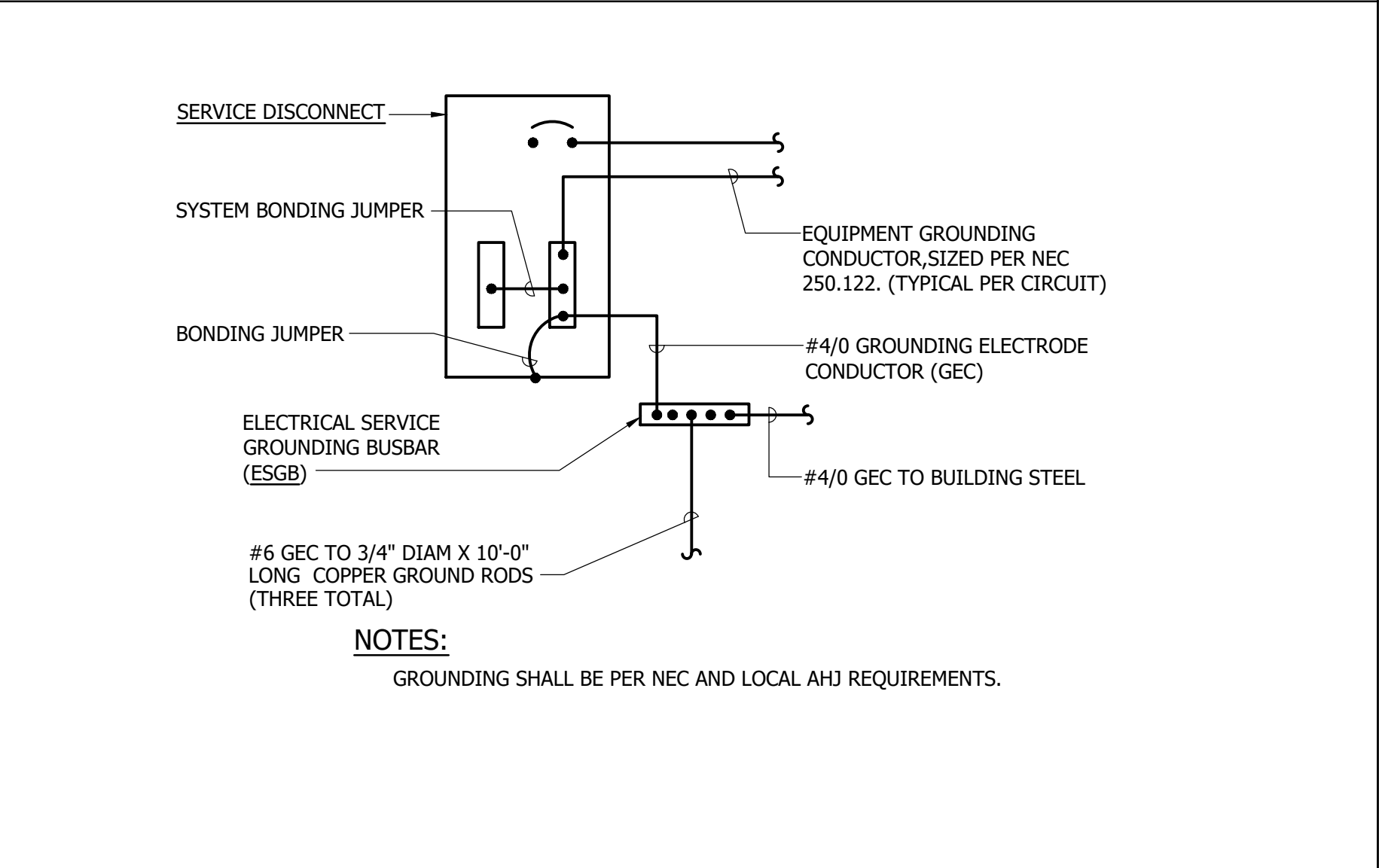
3 EXTERIOR JUNCTION BOX

SCALE: NONE



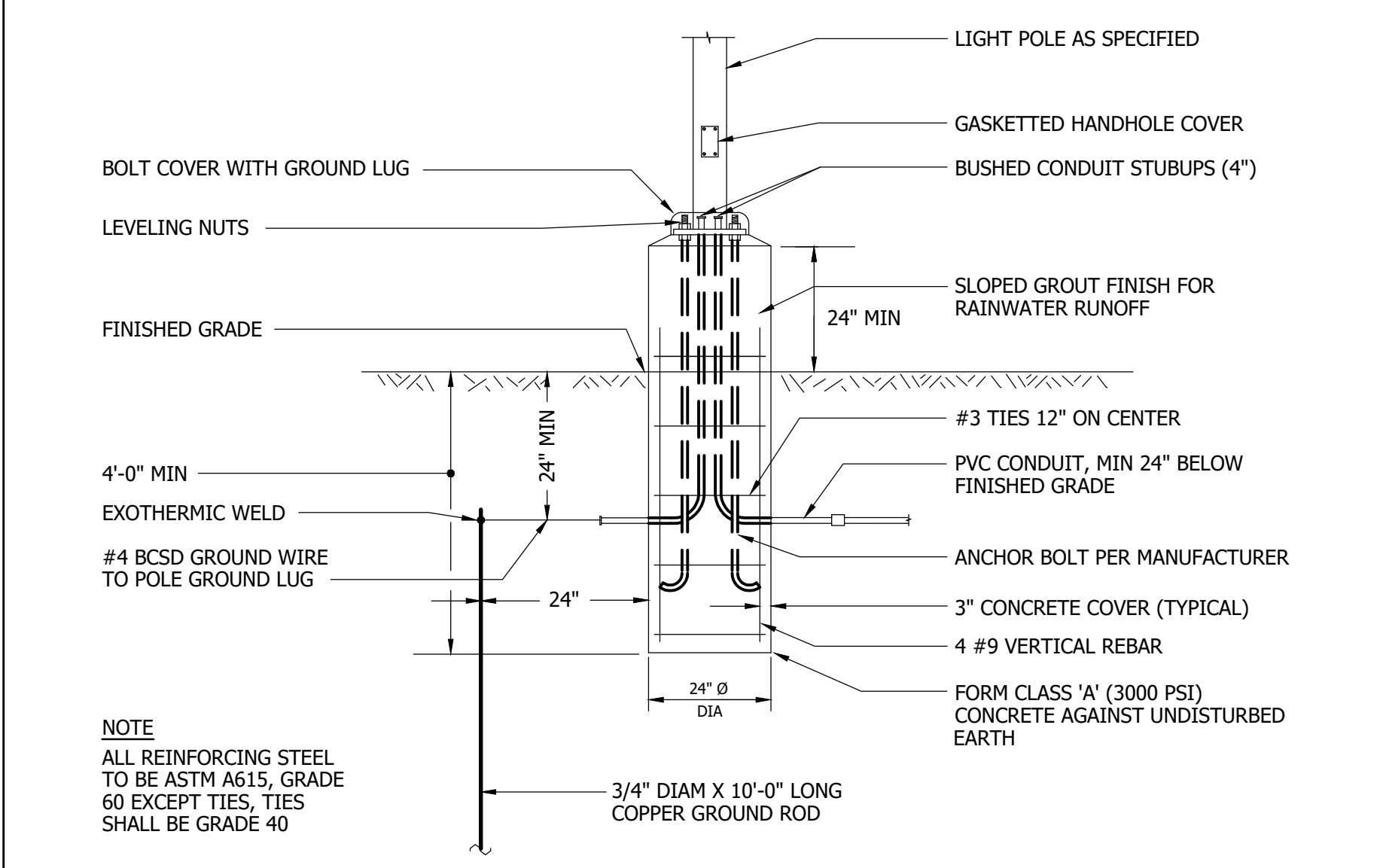
4 PLAZA LIGHTING CONTROLS - PHOTOCELL ON/TIMER OFF

SCALE: NONE



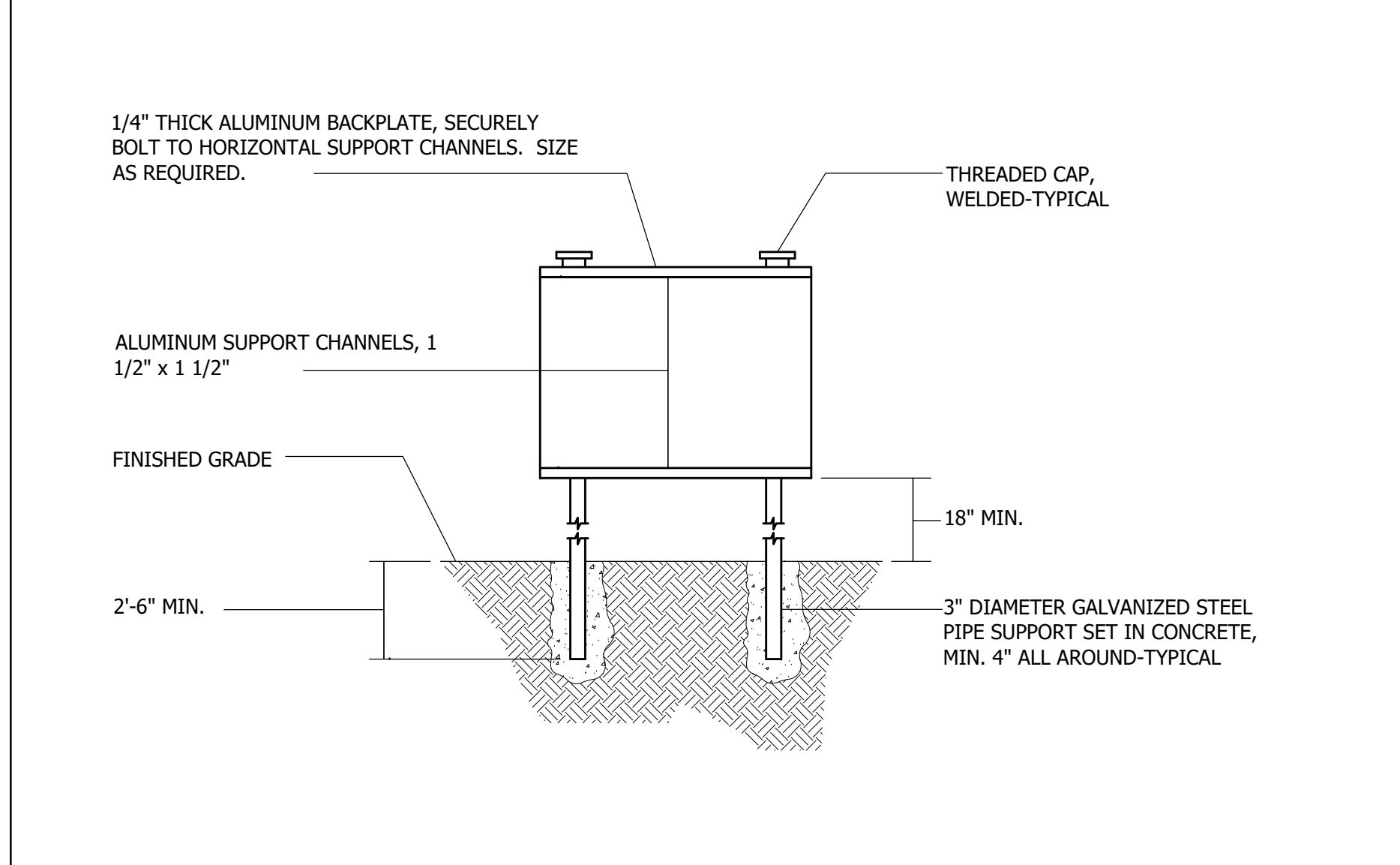
5 SERVICE GROUND WIRING DIAGRAM

SCALE: NONE



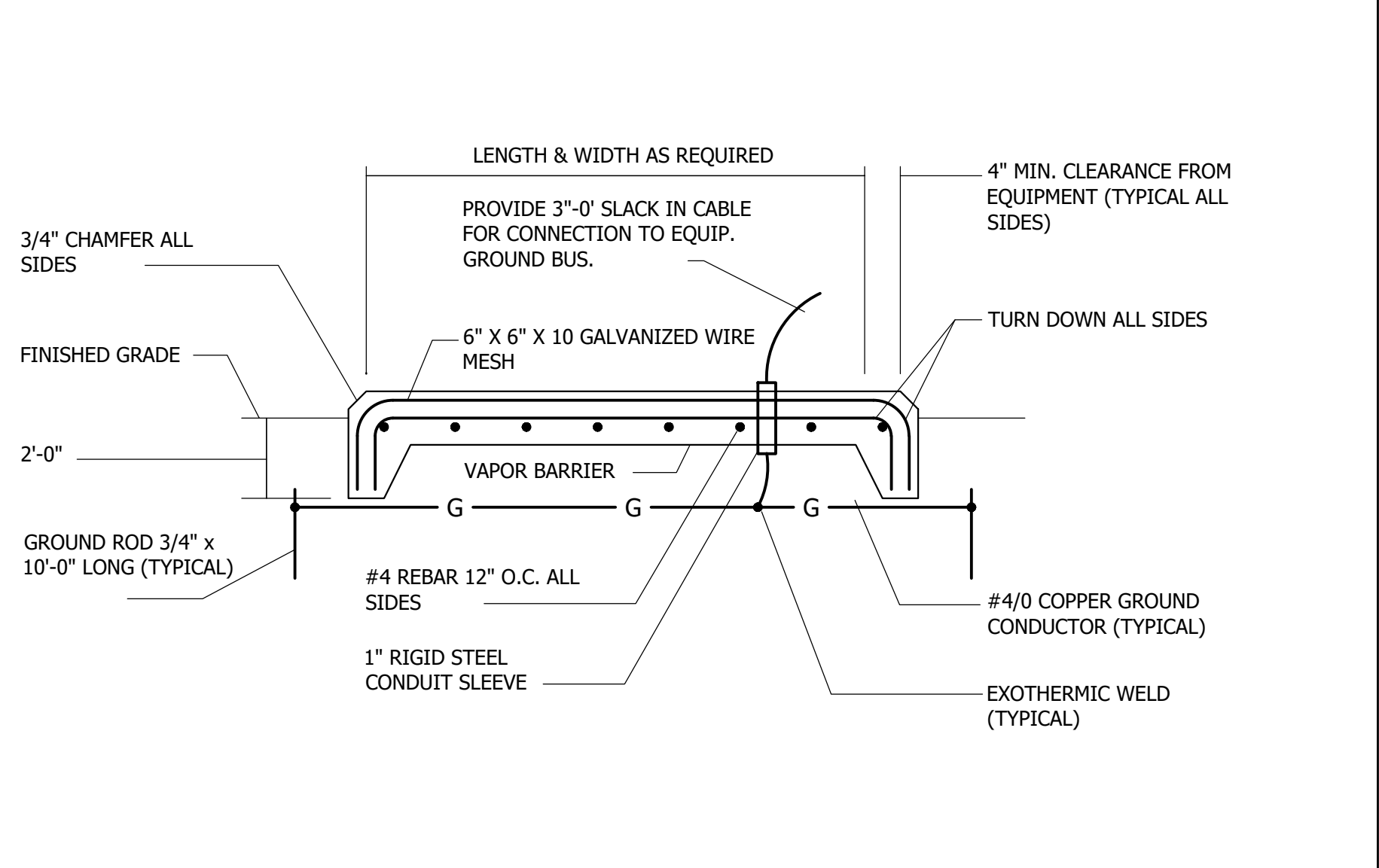
6 PARKING AREA POLE BASE

SCALE: NONE



7 DETAIL - EQUIPMENT MOUNTING PEDESTAL

SCALE: NONE



8 DETAIL - CONCRETE EQUIPMENT PAD

SCALE: NONE

BID DOCUMENTS 11/08/2023

Gipe Associates Inc.
Consulting Engineers
1220 East Joppa Road, Suite 223 Towson, MD 21286
Baltimore, Maryland (410) 832-2420
Easton, Maryland (410) 822-8688
W.O.# 21059

"THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO GIPE ASSOCIATES, INC. AND SHALL NOT BE ALTERED OR REUSED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF GIPE ASSOCIATES, INC. Copyright © 2022"

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
Designing Infrastructure for Tomorrow®

Professional Engineer
Eric Sueschid
44831
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #84837 Expiration Date: 12/22/2023

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	

SCALE: NONE
DRAWN BY: J.L.P.
CHECKED BY: E.M.P.
SHEET NO. 47 OF 47
PROJECT NO.: P582001
CONTRACT NO.: P582001

DEALE COMMUNITY PARK
DETAILS & RISER DIAGRAMS

P:\Jobs\2021\21059 AA Co. Deale Park\DWG\ELEC\21059 E-7.1 Detail.dwg Nov 06, 2023 8:25am Plot By: epueschid