



CRESTLAWN AVE, PARK WAY AND PARKWAY PLACE STORM DRAINAGE, MAINTENANCE, REPAIR, AND IMPROVEMENTS CHEVERLY, MD



STORM DRAINAGE
REPAIR, MAINTENANCE
AND IMPROVEMENTS

TOWN OF
CHEVERLY, MARYLAND

NOTE

The primary intention of this plan is a concept to remove, re-construct and improve failing storm drain systems located along Crestlawn Ave, Park Way and Parkway Place in the Town of Cheverly. Extensive camera investigations have determined that obsolete Vitrified Clay pipe exists as well as extensive system collapse, failure and inadequate system design. Due to partial absence of surface structure evidence however, the assumption was made that the existing storm drain which must be removed and replaced is located in the center of the road right-of-way. Further, due to age and available records, information at this time suggests that the system is paralleled by various utilities, to include water, sewer and gas on each side, with storm drain between. Therefore, five feet of clearance will be required between this proposed storm drain replacement system and all said existing parallel utilities. Prior to any construction or final plan approval, Miss Utility must be notified, all utilities identified, marked for surface location, and test pits (locations to be determined by engineer) must be provided for location confirmation and any potential conflicts requiring design final adjustments.

SHEET INDEX

- C-1 COVER SHEET
- C-2 DRAINAGE AREA MAP
- C-3 STORM DRAIN NETWORK
- C-4 PROPOSED IMPROVEMENTS - CRESTLAWN AVENUE
- C-5 PROPOSED IMPROVEMENTS - PARKWAY PLACE
- C-6 PROFILES - PARKWAY PLACE
- C-7 SITE PLAN - ALLEY
- C-8 DETAILS
- MOT-1 MAINTENANCE OF TRAFFIC
- MOT-2 MOT NOTES & DETAILS

GENERAL NOTES

1. TOTAL DRAINAGE AREA: 9.02 AC
2. TOTAL IMPERVIOUS AREA: 2.71 AC
3. DISTURBED AREA: 4,190 SQ. FT.
4. EXISTING ZONE: RS65-RESIDENTIAL
5. WATER/SEWER CATEGORY 33
6. WSSC GRID: 204NE05
7. TAX MAP: 059A2
8. SUBDIVISION: CHEVERLY
9. STORMWATER CONCEPT APPROVAL# : N/A
10. ASSUMED 10FT PUBLIC UTILITY EASEMENT ALONG ALL RIGHTS OF WAY UNLESS OTHERWISE SHOWN
11. NO MANDATORY PARK DEDICATION OR SUBDIVISION REQUIRED
12. NO CEMETERIES EXISTING OR ON CONTIGUOUS TO THE PROPERTY
13. NO HISTORICAL SITES ON OR IN THE VICINITY OF THE PROPERTY
14. WETLANDS ARE NOT ON OR CONTINUOUS/ADJACENT TO PROPERTY
15. 100 YEAR FLOODPLAIN IS NOT ON OR CONTIGUOUS/ADJACENT TO PROPERTY
16. THIS SITE IS WITHIN A SEDIMENT TMDL AND IS WITHIN A TIER 2 WATERSHED
17. WATERSHED: ANACOSTIA RIVER
18. THIS SITE IS NOT WITHIN THE CHESAPEAKE BAY CRITICAL AREA
19. SOURCE OF TOPOGRAPHY: PRINCE GEORGE'S COUNTY GIS & FROM OTHERS
20. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THERE ARE MINOR UTILITY CONFLICTS WITHIN THE PROPOSED WORK AREA



VICINITY MAP

PERMIT REQUIREMENTS	
CONCEPTUAL APPROVAL	NOT REQ'D
FLOODPLAIN APPROVAL	NOT REQ'D
PGSCD <5000 sq ft DISTURBED	REQ'D
P.G. COUNTY DPIE	REQ'D
M.N.C.P. & P.C.	REQ'D
WSSC	REQ'D
STATE HWY. ADM	NOT REQ'D
M.D.E. WATERWAY CONST.	NOT REQ'D
M.D.E. DAM SAFETY	NOT REQ'D
ARMY CORPS OF ENGINEERS	NOT REQ'D
MARYLAND S.W.M. ADM. APPROVAL	NOT REQ'D
M.D.E. - W.Q.C.	NOT REQ'D
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CRITICAL AREA	REQ'D
DSB, DER	REQ'D
MDE NON TIDAL WETLAND PERMIT	REQ'D
MARYLAND DNR	REQ'D

AS-BUILT DATA	
CONTRACT NO.	
CONTRACTOR	
INSPECTOR	
DATE FINALED	
FINALED BY	
DATE	REVISION
4/19/2024	

**DEPARTMENT OF PERMITS, INSPECTION
AND ENFORCEMENT
SUSTAINABILITY DIVISION
PRINCE GEORGE'S COUNTY, MARYLAND**

ASSOCIATE DIRECTOR	DATE
SCALE:	DWG COVER
APPROVED:	SECTION HEAD DATE
DESIGNED: MC	
DRAWN: JJ	
CHECKED: MC	C.I.P.
PROJECT MANAGER	CONTRACT NO.

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

License No.: 22621 Expiration Date: 2-17-2026

MISS UTILITY

BEFORE YOU DIG CALL
1-800-387-7777
PROTECT YOURSELF, GIVE TWO
WORKING DAYS NOTICE

THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.

THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.

ENGINEERS & DRAINAGE CERTIFICATIONS

I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO THE REQUIREMENTS OF SUBTITLE 32, DIVISION 2 OF THE CODE OF PRINCE GEORGE'S COUNTY WATER RESOURCES PROTECTION AND GRADING CODE; AND THAT I OR MY STAFF HAVE INSPECTED THIS SITE, AND FROM THIS SITE ONTO DOWNHILL PROPERTIES, HAVE BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES.

SIGNATURE: DATE: 03/15/2022

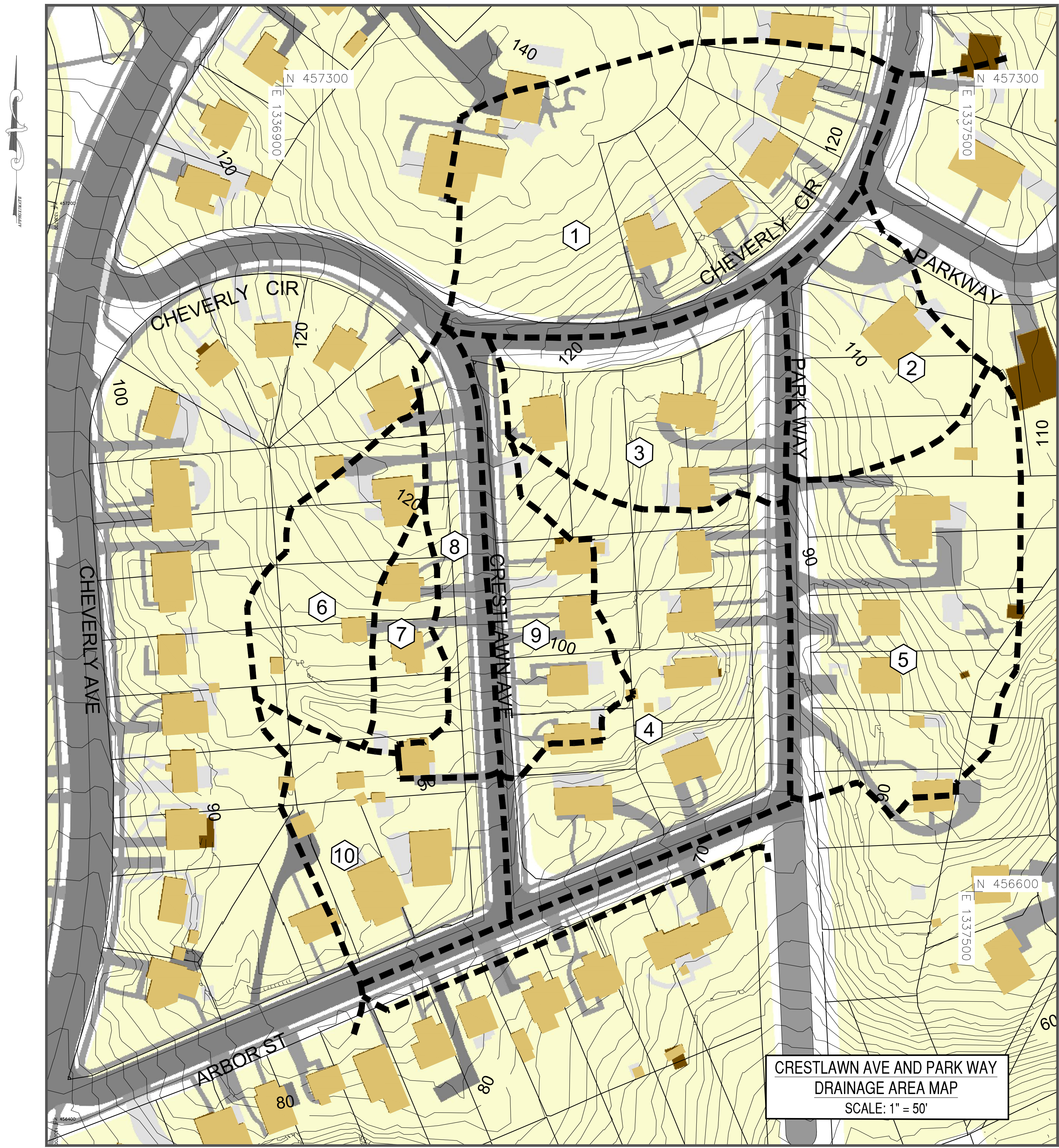
NAME: Michael Clair MD. REG. NO: 22621

UTILITY CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF THAT THE EXISTING AND/OR PROPOSED UNDERGROUND UTILITY INFORMATION SHOWN HEREON HAS BEEN CORRECTLY DUPLICATED FROM UTILITY COMPANY RECORDS. FURTHER, THAT THIS PROJECT HAS BEEN CAREFULLY COORDINATED WITH EACH INVOLVED UTILITY COMPANY AND ALL AVAILABLE UNDERGROUND UTILITY INFORMATION RELATIVE TO THIS PLAN HAS BEEN SOLICITED FROM THEM

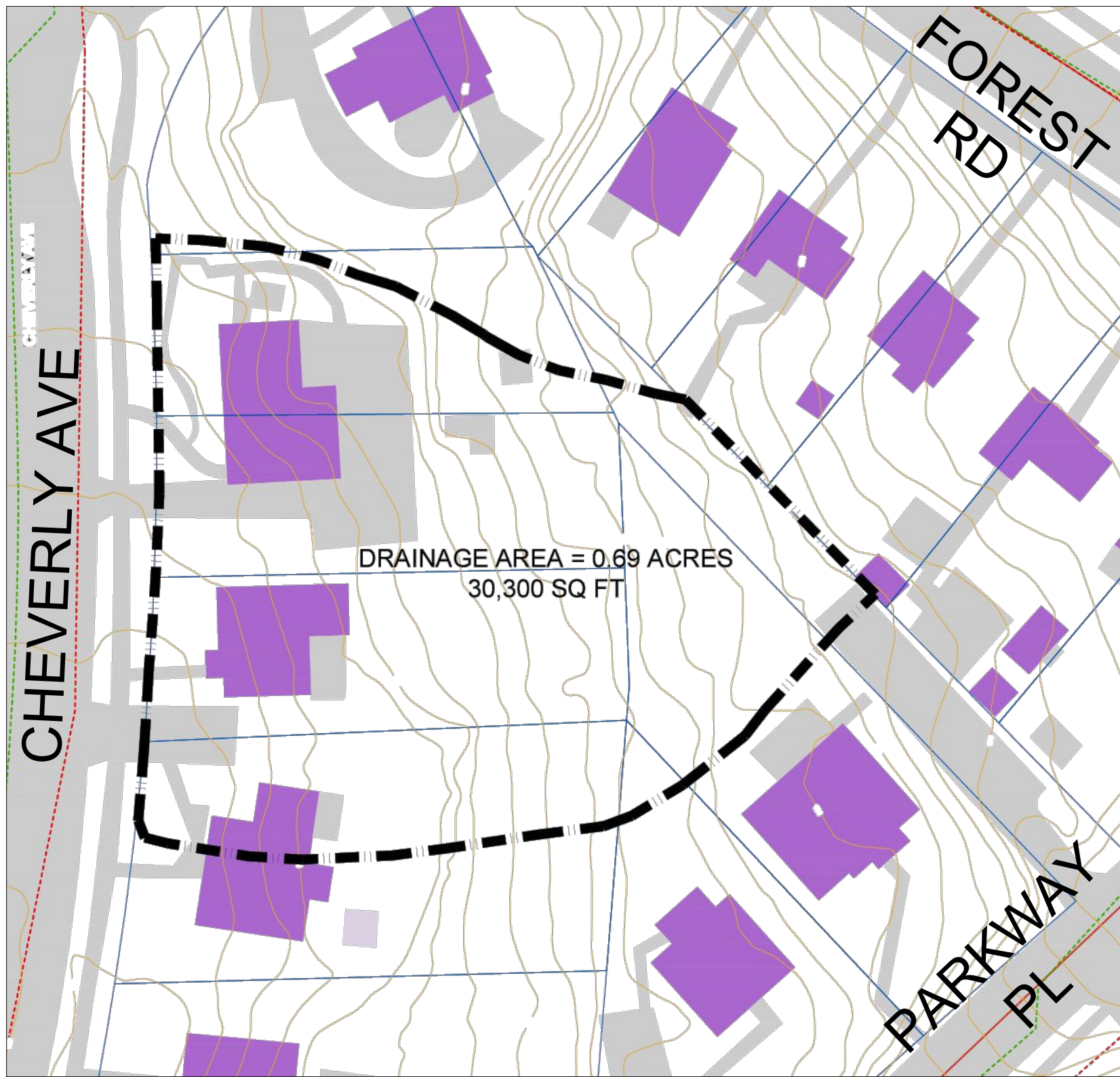
SIGNATURE: DATE: 03/15/2022

SIGNATURE: ENGINEER-IN-CHARGE DATE: 03/15/2022



CRESTLAWN AVE AND PARKWAY
DRAINAGE AREA MAP
SCALE: 1" = 50'

DA SUMMARY TABLE			
DA	AREA (acres)	C	Tc (hr)
1	1.715	0.65	0.17
2	0.635	0.65	0.17
3	0.824	0.65	0.17
4	1.390	0.65	0.17
5	1.312	0.65	0.17
6	0.566	0.65	0.17
7	0.230	0.65	0.17
8	0.424	0.65	0.17
9	0.551	0.65	0.17
10	0.681	0.65	0.17
TOTAL	8.33		



PARKWAY PLACE
DRAINAGE AREA MAP
SCALE: 1" = 40'



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MDENON TIDAL WETLAND PERMIT	REQ'D
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DEPARTMENT OF THE ENVIRONMENT

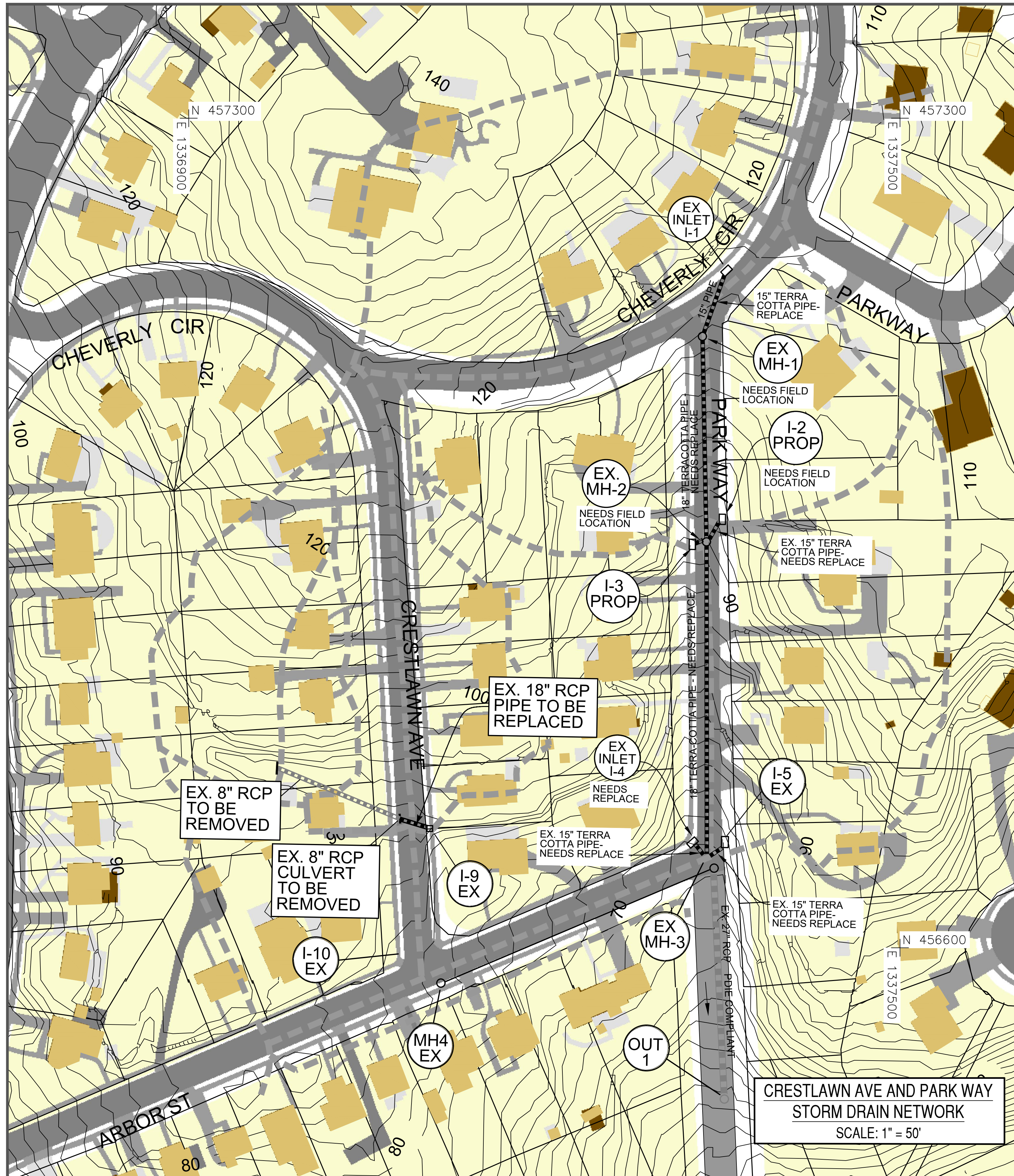
ECOSITE, INC.
Ecologically Sustainable Design

4600 POWDER MILL RD
STE 450-S16
BELTSVILLE, MD 20705
PHONE: (410) 804-8000

Town of Cheverly
CRESTLAWN AVE,
PARKWAY & PARKWAY PL.
STORM DRAIN RETROFIT

DRAINAGE AREA MAP

C-2



CRESTLAWN AVE AND PARKWAY
STORM DRAIN NETWORK
SCALE: 1" = 50'



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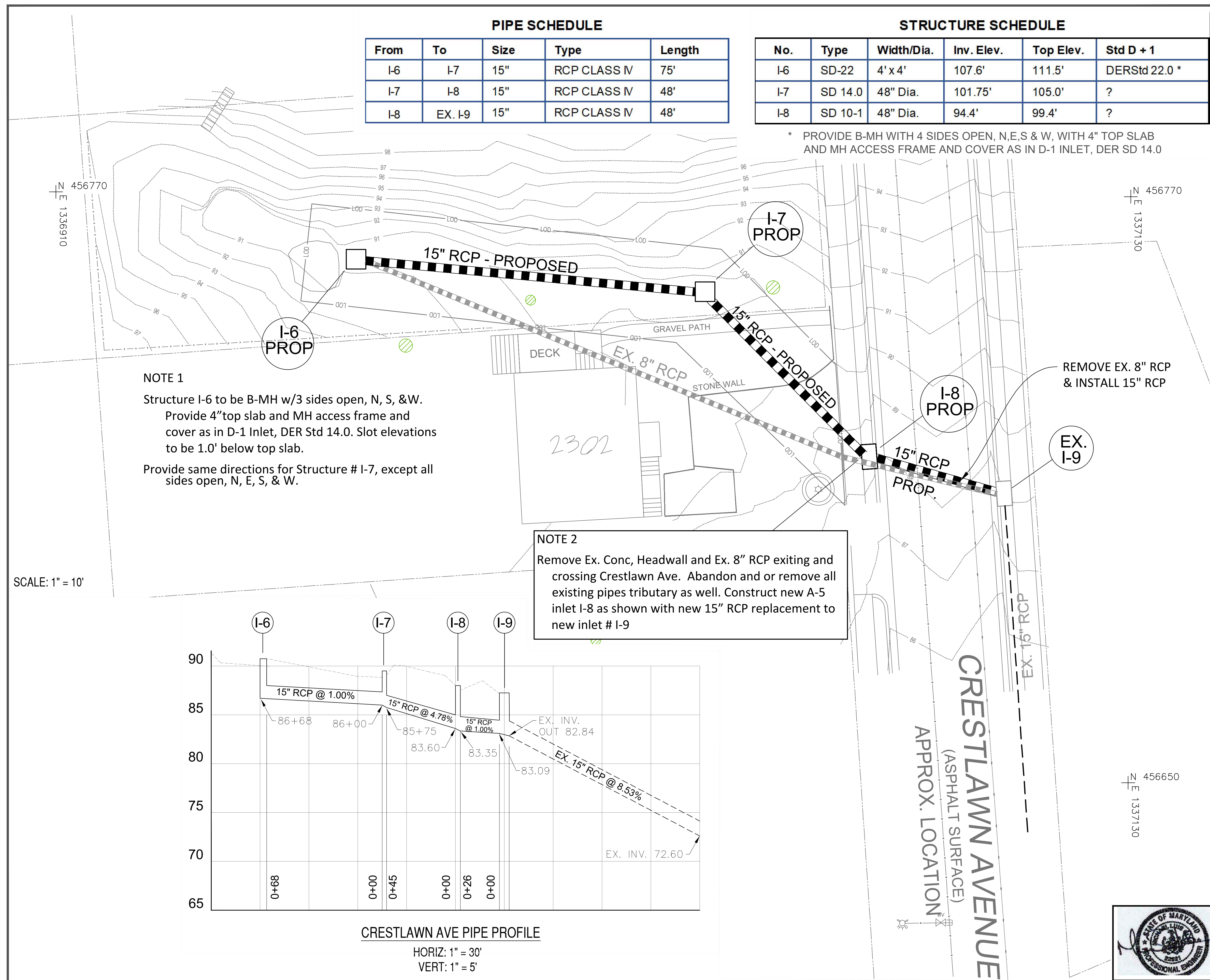
PIPE SCHEDULE

From	To	Size	Type	Length
I-6	I-7	15"	RCP CLASS IV	75'
I-7	I-8	15"	RCP CLASS IV	48'
I-8	EX. I-9	15"	RCP CLASS IV	48'

STRUCTURE SCHEDULE

No.	Type	Width/Dia.	Inv. Elev.	Top Elev.	Std D + 1
I-6	SD-22	4' x 4'	107.6'	111.5'	DERStd 22.0 *
I-7	SD 14.0	48" Dia.	101.75'	105.0'	?
I-8	SD 10-1	48" Dia.	94.4'	99.4'	?

* PROVIDE B-MH WITH 4 SIDES OPEN, N,E,S & W, WITH 4" TOP SLAB AND MH ACCESS FRAME AND COVER AS IN D-1 INLET, DER SD 14.0



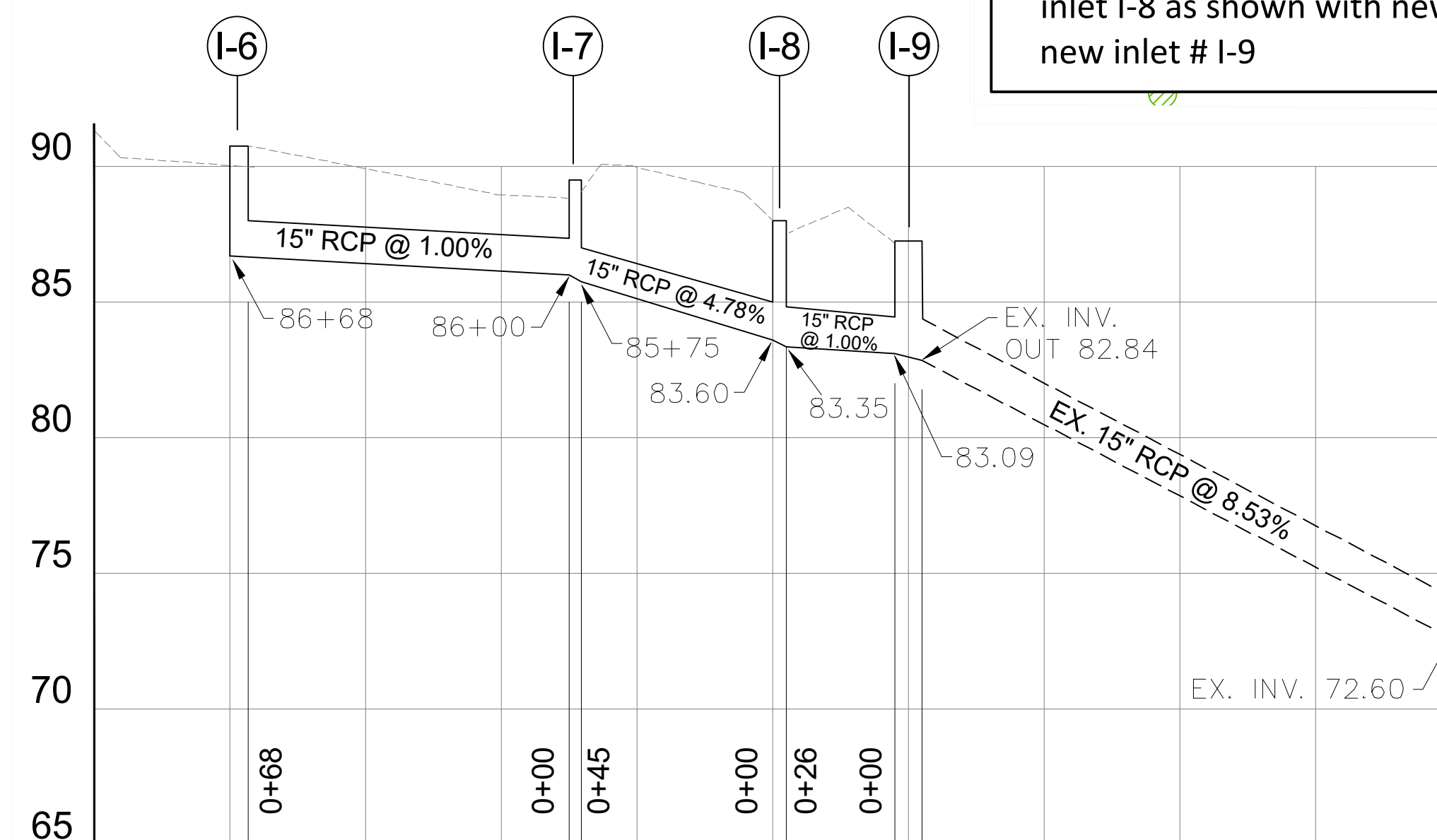
NOTE 1

Structure I-6 to be B-MH w/3 sides open, N, S, & W. Provide 4" top slab and MH access frame and cover as in D-1 Inlet, DER Std 14.0. Slot elevations to be 1.0' below top slab.
Provide same directions for Structure # I-7, except all sides open, N, E, S, & W.

NOTE 2

Remove Ex. Conc. Headwall and Ex. 8" RCP exiting and crossing Crestlawn Ave. Abandon and or remove all existing pipes tributary as well. Construct new A-5 inlet I-8 as shown with new 15" RCP replacement to new inlet # I-9

SCALE: 1" = 10'



CRESTLAWN AVE PIPE PROFILE

HORIZ: 1" = 30'
VERT: 1" = 5'



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GENERAL STORM DRAIN AND PAVING NOTES
ORIGINAL STREET NAME APPROVAL NUMBER

1. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS, BY HAND OR VACUUM, AT UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES TO WATER AND SEWER LINES ARE LESS THAN SHOWN ON THIS PLAN, OR LESS THAN TWELVE (12) INCHES, CONTACT THE DEPARTMENT OF PERMITTING INSPECTION AND ENFORCEMENT (DPIE) INSPECTOR BEFORE PROCEEDING WITH CONSTRUCTION.
2. ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STORMWATER MANAGEMENT STANDARDS AND SPECIFICATIONS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION.
3. FOR TYPES OF STORM DRAIN STRUCTURES, REFER TO THE LATEST STANDARD DETAILS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION, UNLESS OTHERWISE NOTED.
4. ALL ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING: THE DPW&T SPECIFICATIONS AND STANDARDS FOR ROADWAYS AND BRIDGES; THE PRINCE GEORGE'S COUNTY CODE, SUBTITLE 23, ROAD ORDINANCE; AND THE PRINCE GEORGE'S COUNTY POLICY AND SPECIFICATION FOR UTILITY INSTALLATION AND MAINTENANCE.
5. PRIOR TO DIGGING WITHIN THE PUBLIC RIGHT-OF-WAY, CALL "MISS UTILITY" TOLL FREE AT (800) 257-7777 FOR UTILITY LOCATION AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.
8. ALL ELEVATIONS SHOWN ON THIS PLAN ARE IN ACCORDANCE WITH THE FOLLOWING: HORIZONTAL MARYLAND COORDINATE SYSTEM (STATE PLANE GRID) BASED ON NORTH AMERICAN DATUM OF 1983 (NAD 83); VERTICAL DATUM OF NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
9. TEMPORARY TRAFFIC CONTROL AND PERMANENT TRAFFIC SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO ARRANGE FOR THE ADJUSTMENT OR RELOCATION OF ALL UTILITIES.
11. ALL UNSUITABLE MATERIAL MUST BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO A DEPTH AS DIRECTED BY THE GEOTECHNICAL ENGINEER, THE DPIE INSPECTOR, AND/OR THE TOWN'S ENGINEER.
12. EXCAVATION AND PLACEMENT OF FILL MATERIAL SHALL BE PERFORMED UNDER THE SUPERVISION OF A MARYLAND-LICENSED ENGINEER.
13. THE PERMITTEE WILL BE REQUIRED TO FURNISH COMPACTION REPORTS CERTIFIED BY A MARYLAND-LICENSED ENGINEER ON EACH LAYER OF FILL MATERIAL PRIOR TO PLACING SUBSEQUENT LAYERS.
14. DURING THE PLACEMENT OF A STANDARD PAVEMENT SECTION, NO PAVEMENT COURSE OR STONE LIFT SHALL BE PLACED UNTIL THE UNDERLYING COURSE OR SUBGRADE IS APPROVED BY THE DPIE INSPECTOR. THE APPROVAL SHALL EXPIRE IF TRAFFIC OR INCLEMENT WEATHER AFFECTS THE SITE PRIOR TO PAVING.
15. AS SOON AS THE ASPHALT BASE COURSE IS APPROVED, THE INTERMEDIATE ASPHALT COURSE SHALL BE PLACED IMMEDIATELY OVER IT TO FORM A PROTECTIVE SEAL.
17. WHERE ROADWAY CONSTRUCTION IS ON OR IN THE VICINITY OF AN EXISTING ROAD, IN-KIND PAVEMENT MARKING AND STRIPING REPLACEMENT (E.G., THERMOPLASTIC, PAINTED, ETC.) ARE REQUIRED ALSO, APPROPRIATE PAVEMENT MARKING AND STRIPING SHALL BE PROVIDED IN THE AREA OF PAVEMENT WIDENING AND/OR RECONSTRUCTION AND/OR OVERLAY OF AN EXISTING ROAD.
18. SAW CUT AND MILL A 2-INCH DEEP, 10-FOOT-WIDE NOTCH AT EXISTING EDGE OF PAVEMENT WHERE IT IS NECESSARY TO CONNECT TO OR TO EXTEND AN EXISTING ROAD. OVERLAY AT POINT OF TIE-IN TO ENSURE A SMOOTH TRANSITION AND POSITIVE DRAINAGE.

22. ALL CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPW&T STANDARDS NO. 300.01 THROUGH 300.04 UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
23. BRICK CHANNELIZATION IS REQUIRED IN ALL PUBLIC DPW&T STORM DRAIN STRUCTURES. CONCRETE CHANNELIZATION IS NOT ALLOWED.
24. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE AREA COVERED BY THIS PERMIT AND THROUGH ADJACENT PROPERTY FRONTAGES.
25. ALL UNPAVED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SODDED, UNLESS AS NOTED ON RESTORATION PLAN. TURF RESTORATION BY SEEDING IS NOT PERMITTED.
26. ALL SIDEWALK RAMPS SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPW&T STANDARDS 300.05 THROUGH 300.10 AND SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF THE AMERICANS WITH DISABILITIES ACT.
27. ALL SIDEWALKS SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DPW&T STANDARDS AND SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF THE AMERICANS WITH DISABILITIES ACT.
28. ALL SIDEWALKS (EXCEPT AS NOTED HEREIN) ARE TO BE CONSTRUCTED BY THE SITE DEVELOPER.
29. SIDEWALKS ALONG FRONTAGES OF OPEN-SPACE PARCELS AND THOSE NOT COVERED BY A SINGLE-FAMILY BUILDING PERMIT SHALL BE CONSTRUCTED UNDER THIS STREET CONSTRUCTION PERMIT.
30. THE WIDTH OF A RESIDENTIAL DRIVEWAY APRON AT THE PROPERTY LINE SHALL NOT BE LESS THAN THE WIDTH OF THE ON-SITE PARKING PAD AT ITS WIDEST POINT, A MAXIMUM WIDTH OF 20 FEET, AND A MINIMUM WIDTH OF 10 FEET. A RESIDENTIAL DRIVEWAY APRON FLAESHALL NOT BE CONSTRUCTED CLOSER THAN 3.5 FEET TO THE NEAREST ABUTTING PROPERTY LINE.
31. ALL DRIVEWAY APRONS ARE TO BE CONSTRUCTED BY THE SITE DEVELOPER.

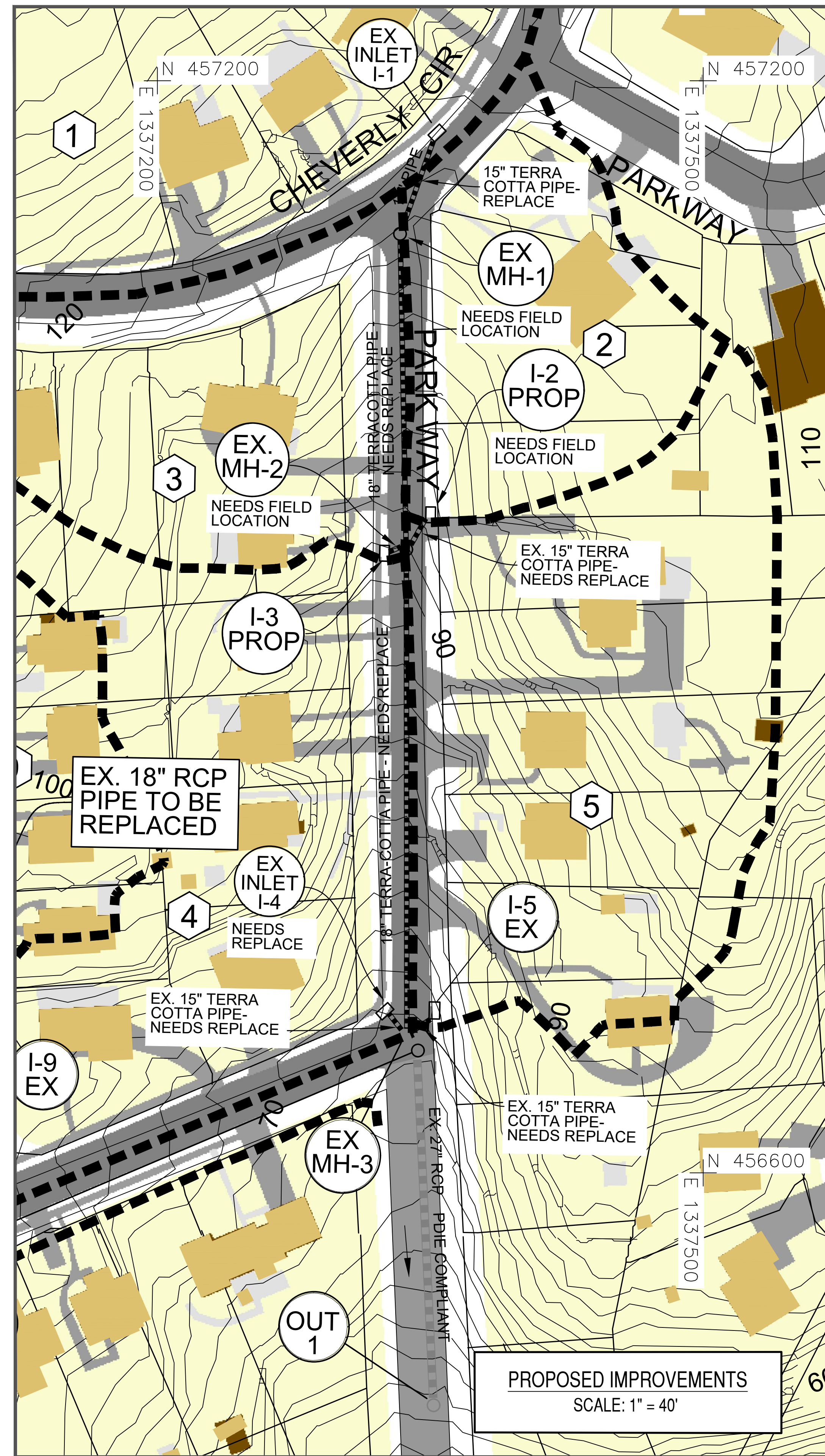
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2. FOR TYPES OF STRUCTURES REFER TO THE LATEST STORMWATER MANAGEMENT STANDARD DETAILS, DER (SWMSD), UNLESS OTHERWISE NOTED.
3. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE UTILITIES BY DIGGING TEST PITS AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED CONTACT THE ENGINEER, AND THE OWNER OF OTHER INVOLVED UTILITY BEFORE PROCEEDING WITH CONSTRUCTION.
4. ALL STORM DRAIN PIPES MUST HAVE A MINIMUM OF 1 FOOT COVER.
5. ALL INLET TOP SLAB FRONT FACES SHALL BE PAINTED WITH THE FOLLOWING CHESAPEAKE BAY DRAINAGE, "DON'T DUMP" (STANDARD 82.0).
6. CONTRACTORS SHALL ADJUST ALL EXISTING UTILITIES AS NEEDED TO CONSTRUCT PROPOSED ROAD IMPROVEMENTS. ADJUSTMENTS MAY INCLUDE BUT NOT LIMITED TO MANHOLE COVERS, VALVES, FIRE HYDRANTS, STORM DRAIN INLETS, STREET LIGHTS, TRAFFIC SIGNALS STRUCTURES, UTILITY POLES, SIDEWALKS, BURIED UTILITY CONDUIT AND PIPES.



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PROPOSED IMPROVEMENTS
SCALE: 1" = 40'



STORM DRAINAGE
REPAIR, MAINTENANCE
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Ecologically Sustainable Design

4600 POWDER MILL RD
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BELTSVILLE, MD 20705
PHONE: (410) 804-8000

Town of Cheverly
CRESTLAWN AVE,
PARKWAY & PARKWAY PL.
STORM DRAIN RETROFIT

PROPOSED
IMPROVEMENTS

C-5

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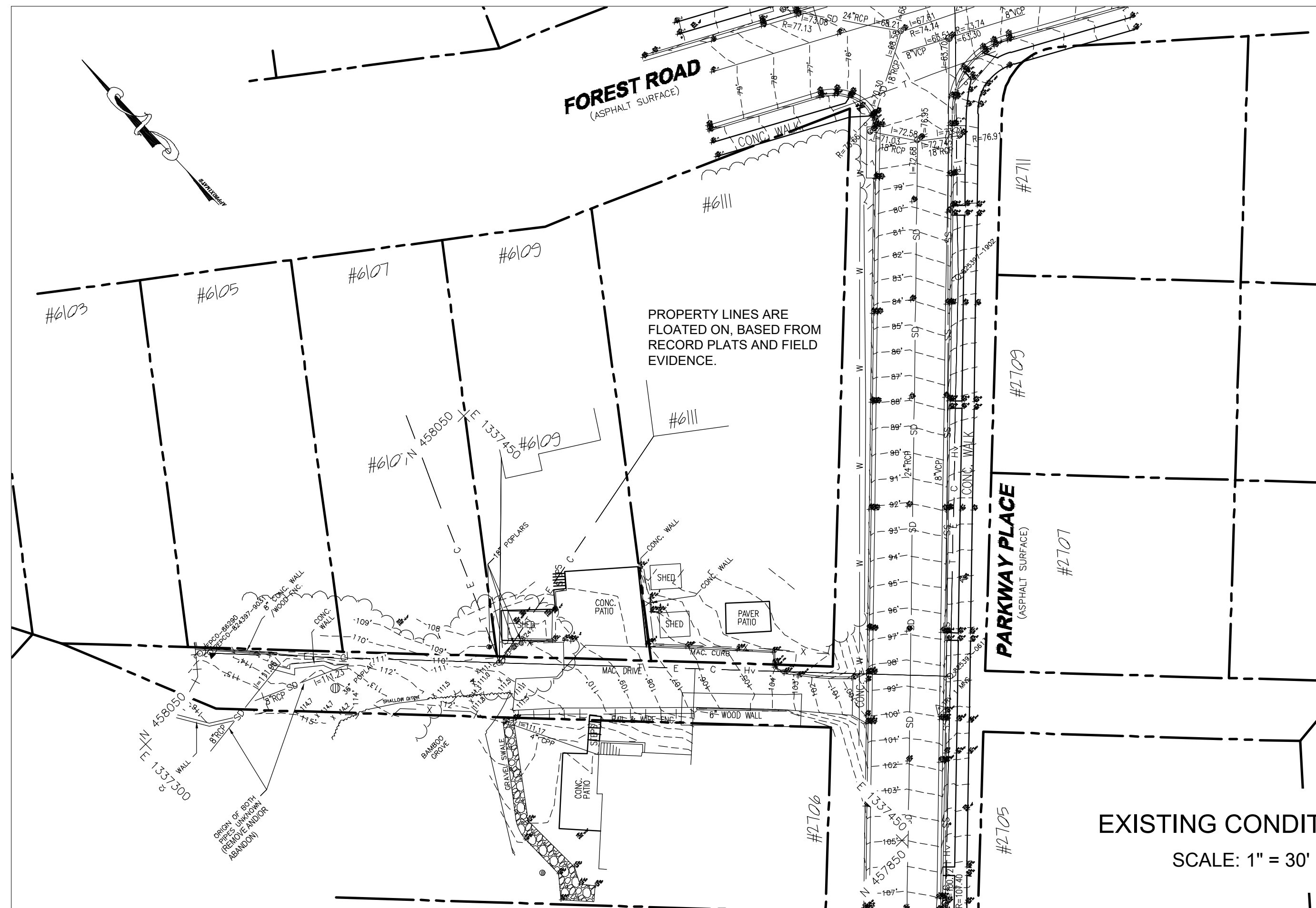
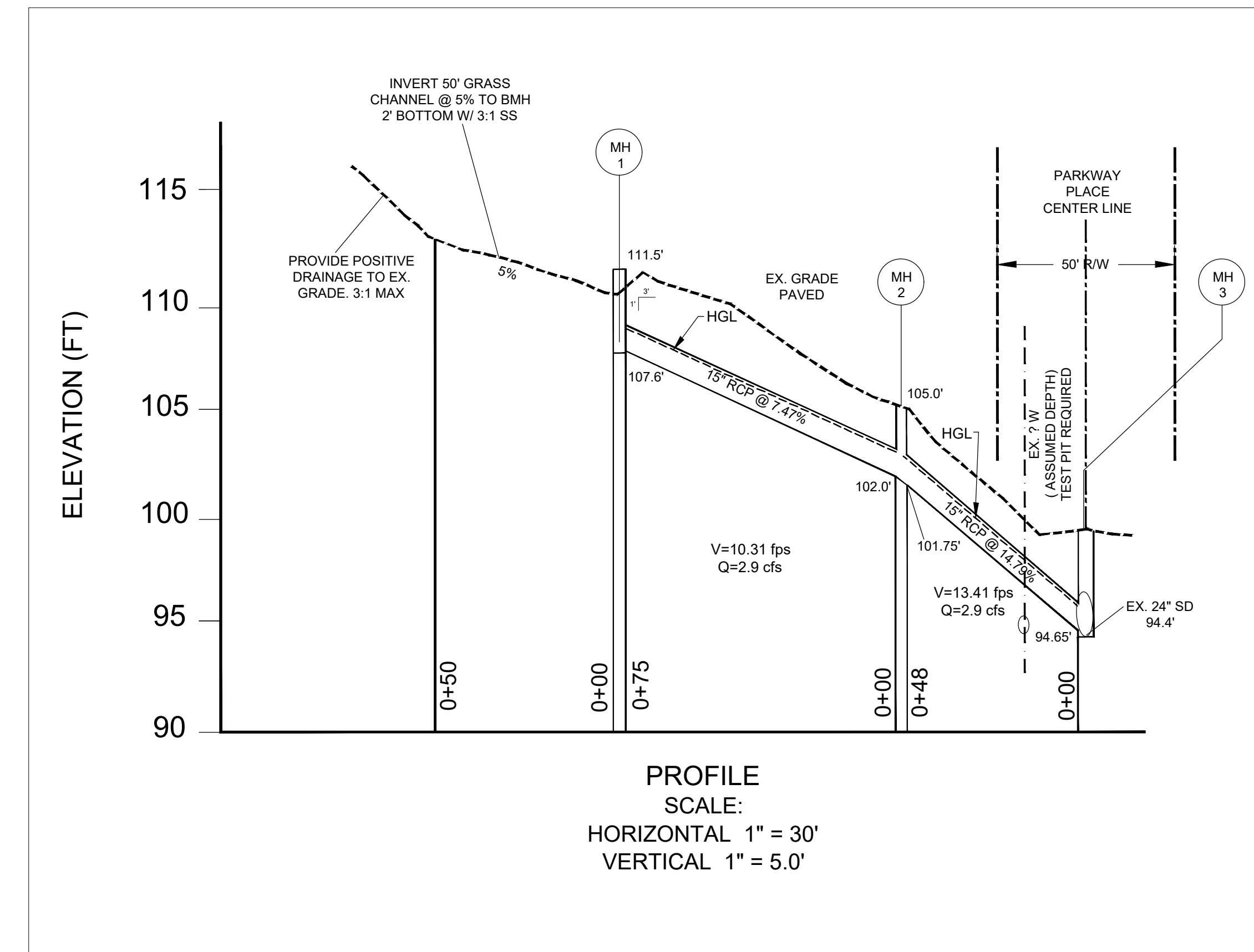
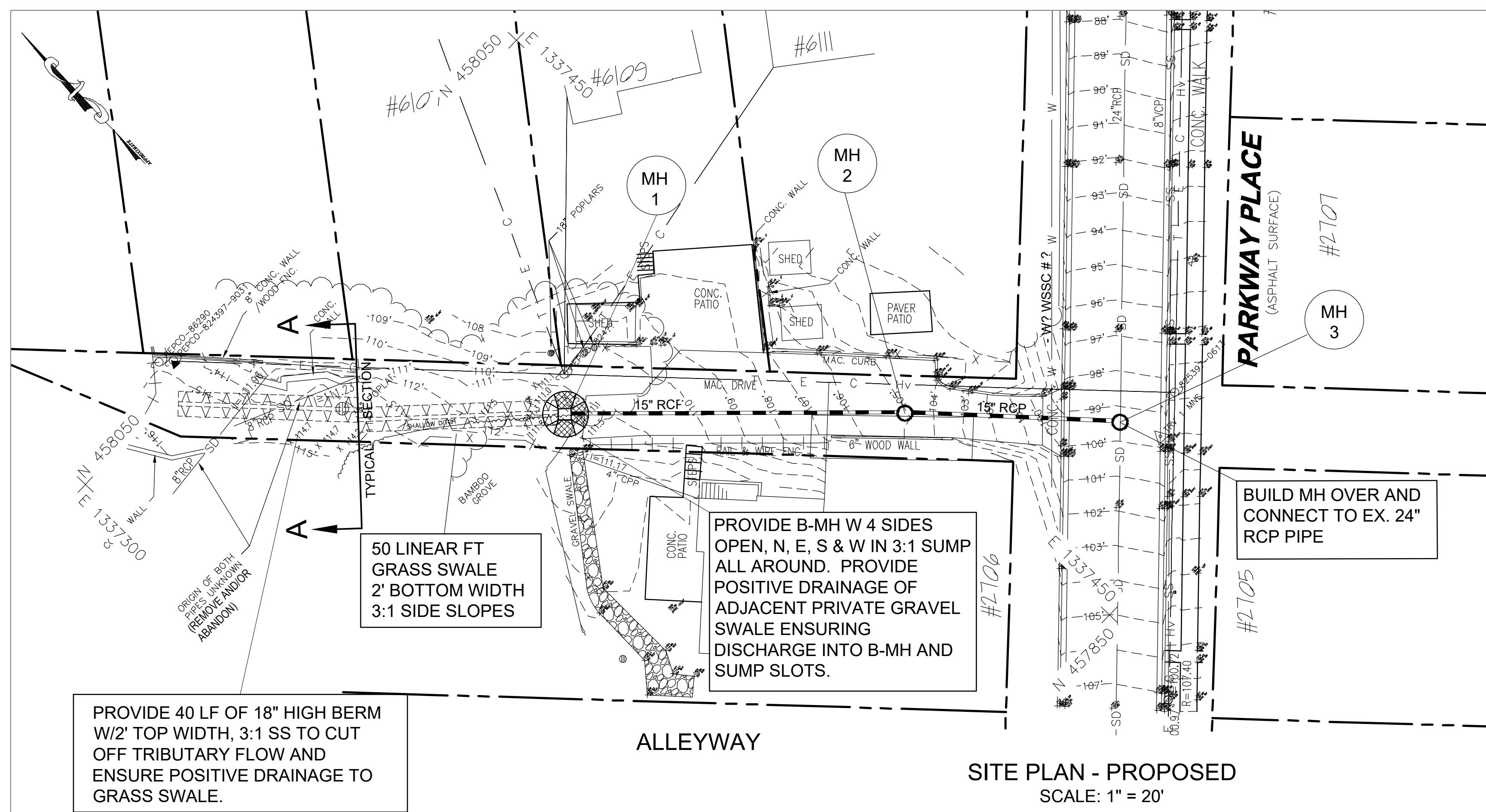
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STATE HWY. ADM.	NOT REQ'D
M.D.E. WATERWAY CONST.	NOT REQ'D
M.D.E. DAM SAFETY	NOT REQ'D
ARMY CORPS OF ENGINEERS	NOT REQ'D
MARYLAND S.W.M. ADM. APPROVAL	NOT REQ'D
M.D.E. - W.Q.C.	NOT REQ'D
TREE PRESERVATION	REQ'D
CRITICAL AREA	REQ'D
DSB, DER	REQ'D
MDE NON TIDAL WETLAND PERMIT	REQ'D
MARYLAND DNR	REQ'D

AS-BUILT DATA

CONTRACT NO.	
CONTRACTOR	
INSPECTOR	
DATE FINALED	
FINALED BY	
DATE	REVISION
4/19/2024	

DEPARTMENT OF PERMITS, INSPECTION
AND ENFORCEMENT
SUSTAINABILITY DIVISION
PRINCE GEORGE'S COUNTY, MARYLAND

ASSOCIATE DIRECTOR	DATE	
SCALE:	DWG COVER	
APPROVED	SECTION HEAD	DATE
DESIGNED:	MC	
DRAWN:	JJ	
CHECKED:	MC	C.I.P.
PROJECT MANAGER	CONTRACT NO.	



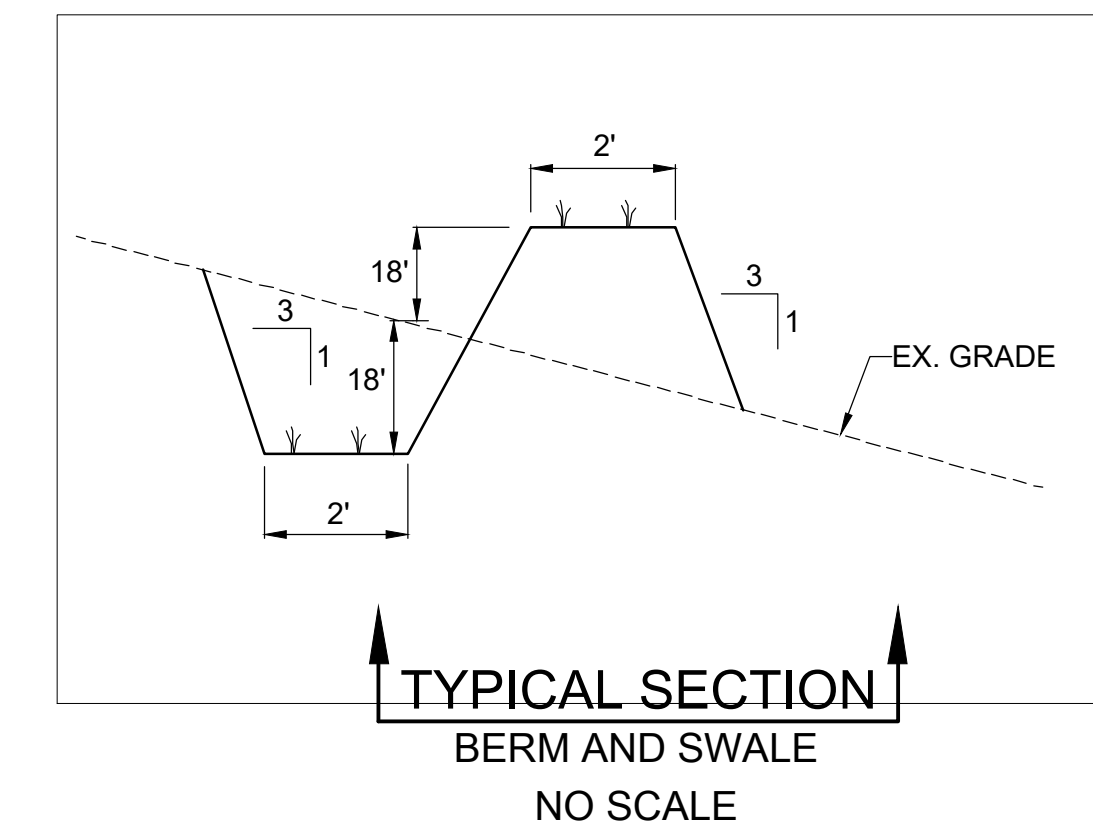
STRUCTURE SCHEDULE

No.	Type	Width/Dia	Inv. Elev.	Top Elev.	Std D + 1
MH-1	B-MH	4' x 4'	107.6'	111.5'	DERStd 22.0 *
MH-2	A-MH	48" Dia	101.75'	105.0'	DERStd 22.0
MH-3	A-MH	48" Dia	94.4'	99.4'	DERStd 21.1

* PROVIDE B-MH WITH 4 SIDES OPEN, N,E,S & W, WITH 4" TOP SLAB AND MH ACCESS FRAME AND COVER AS IN D-1 INLET, DER SD 14.0. SLOT ELEV. 10" BELOW TOP OF SLAB OR 110.67

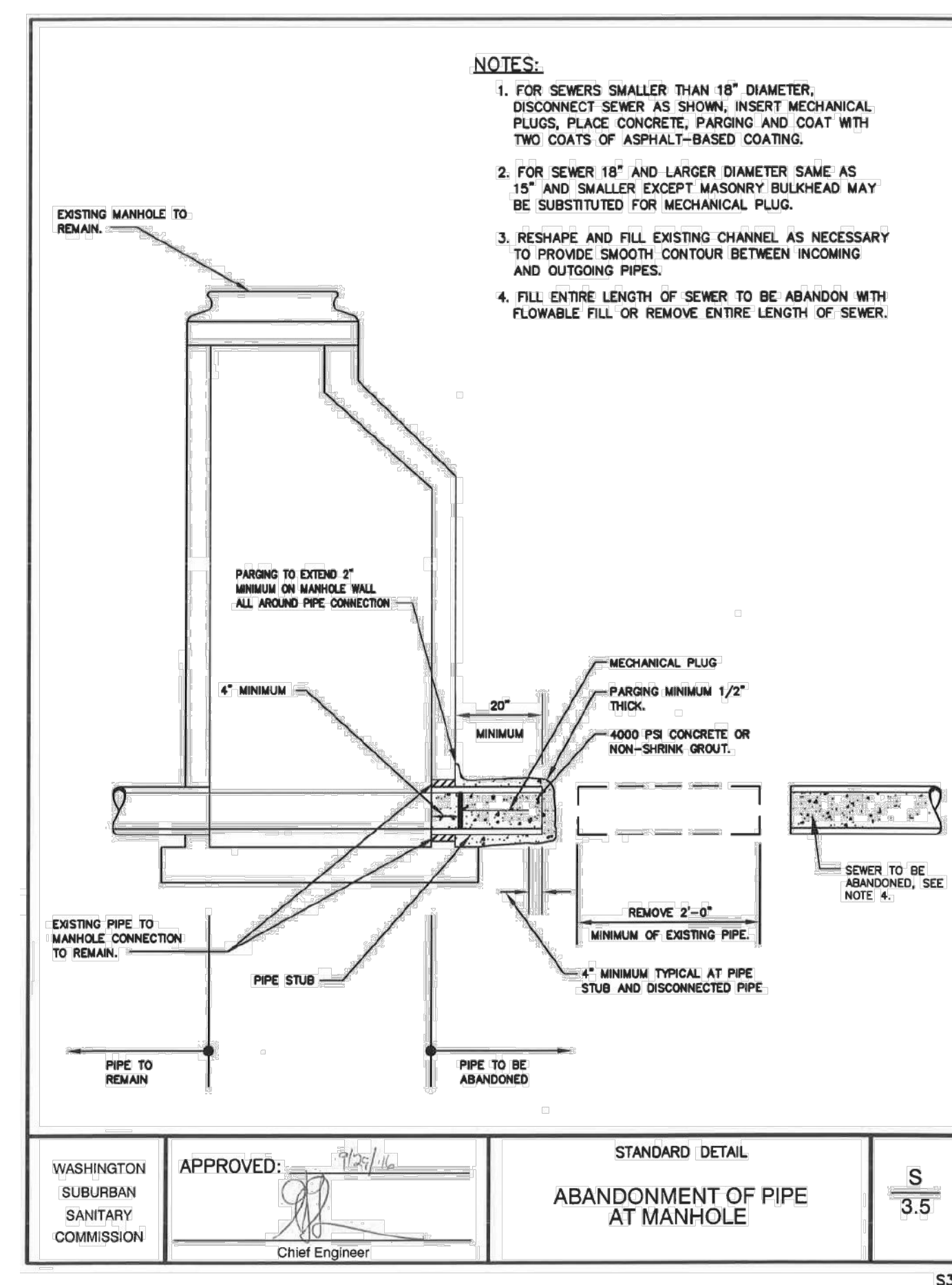
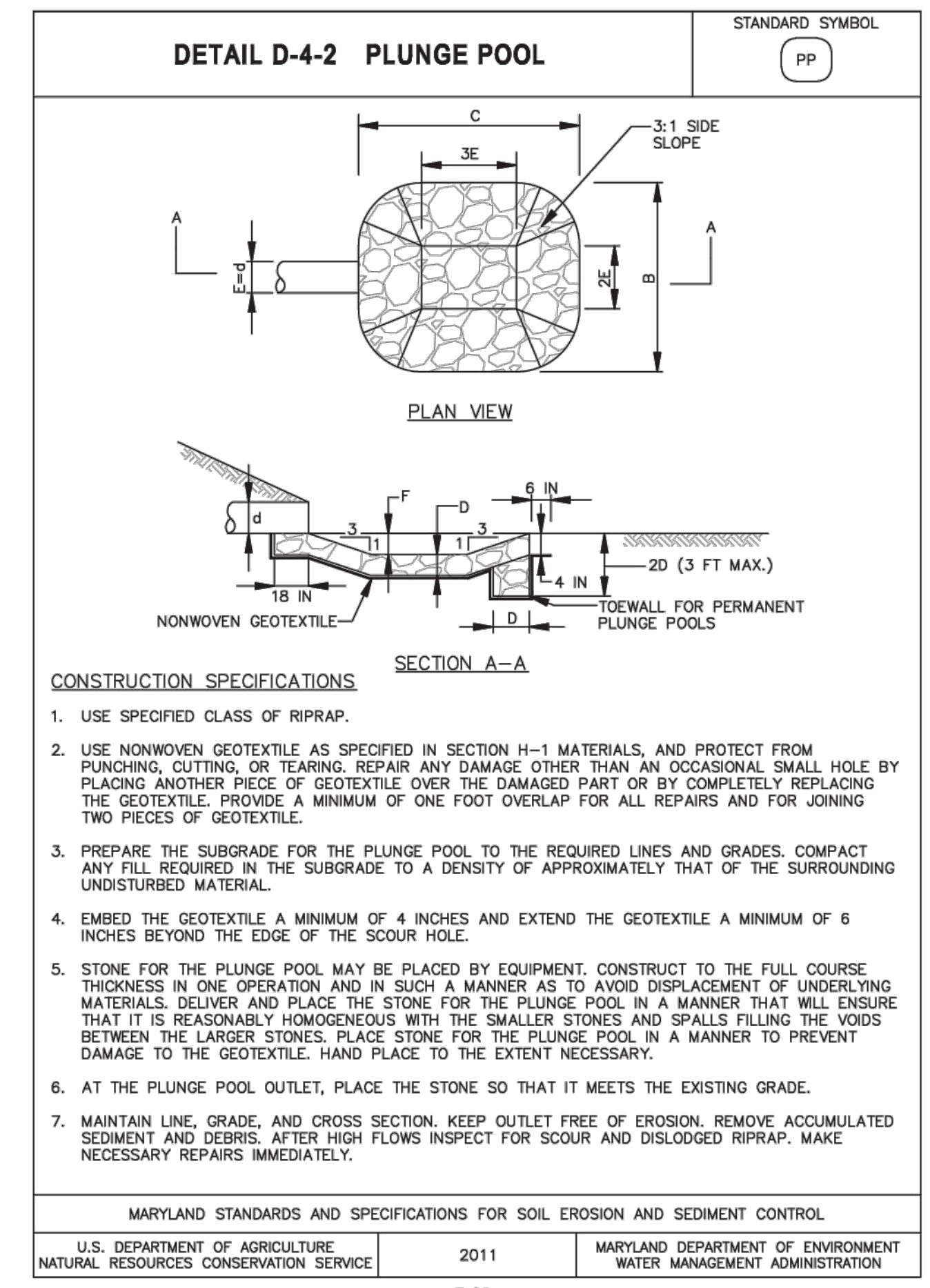
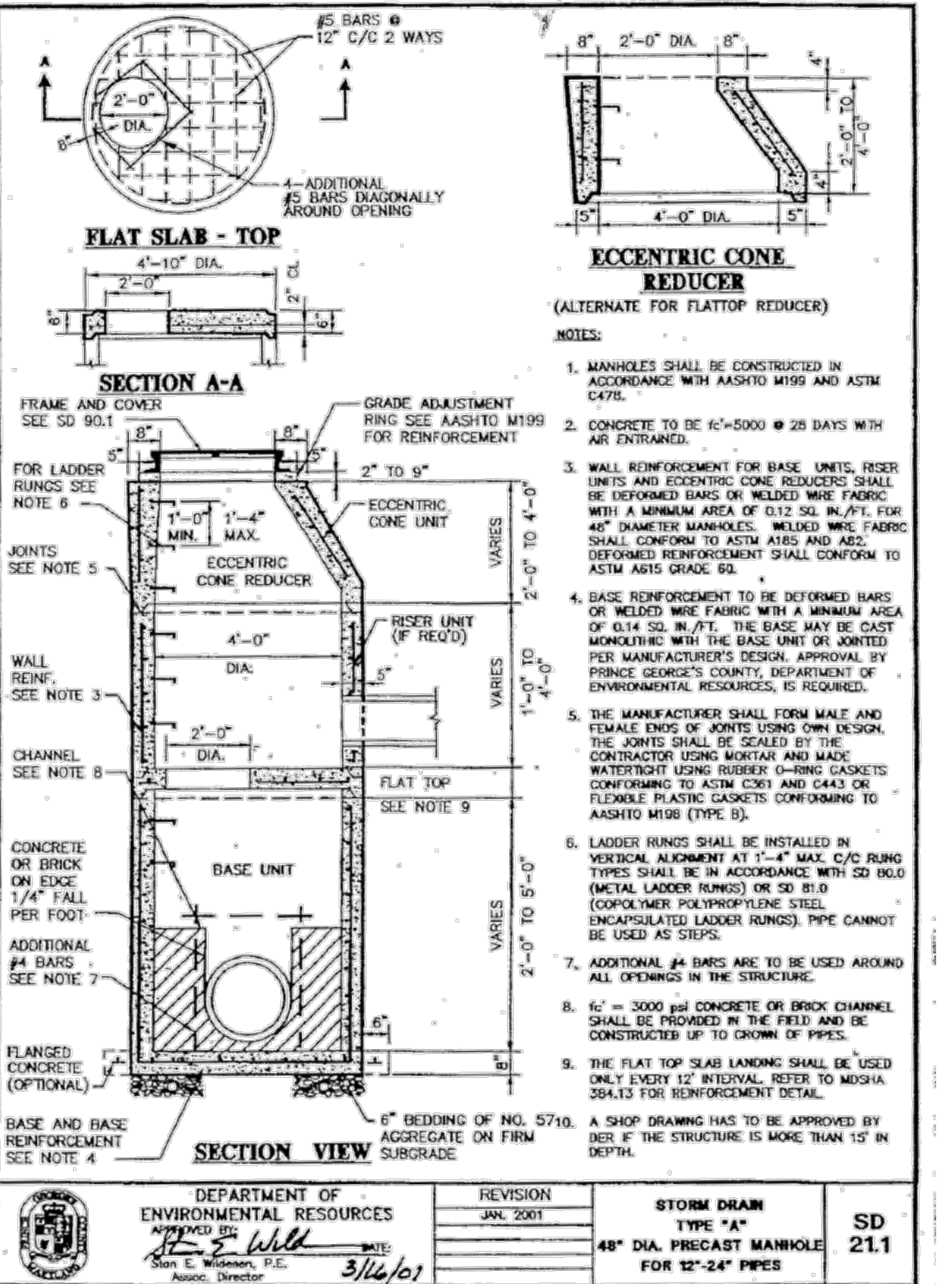
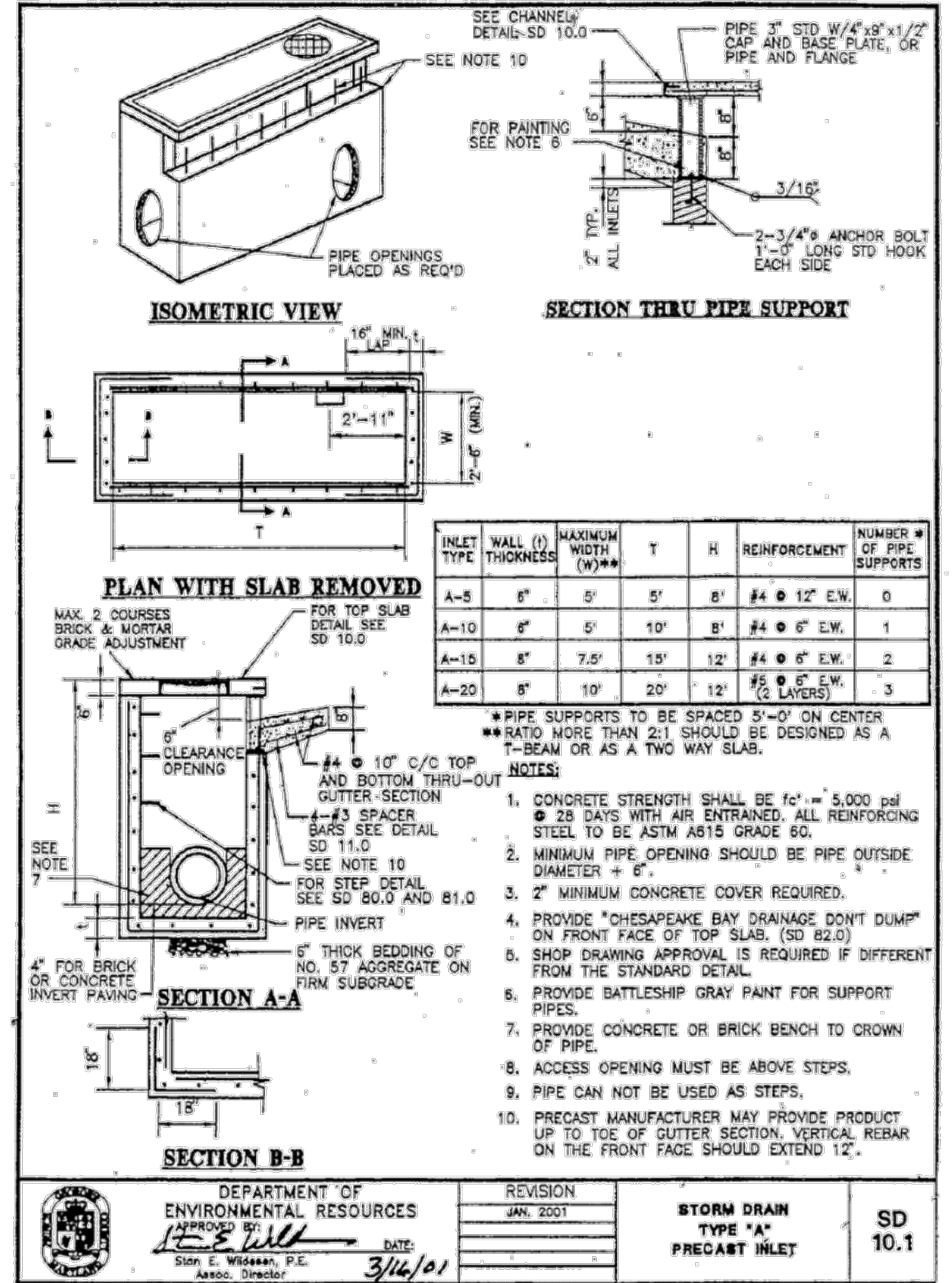
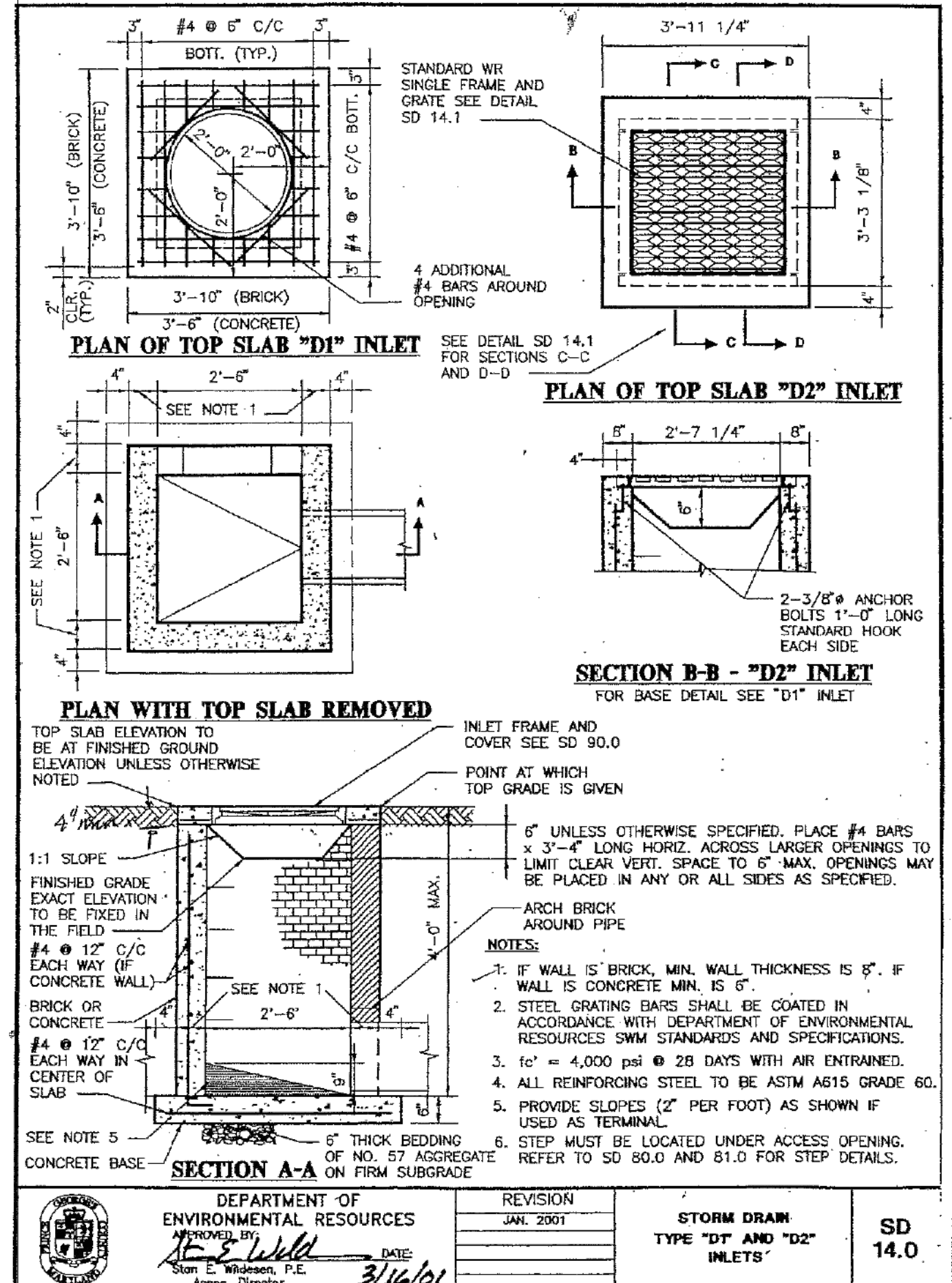
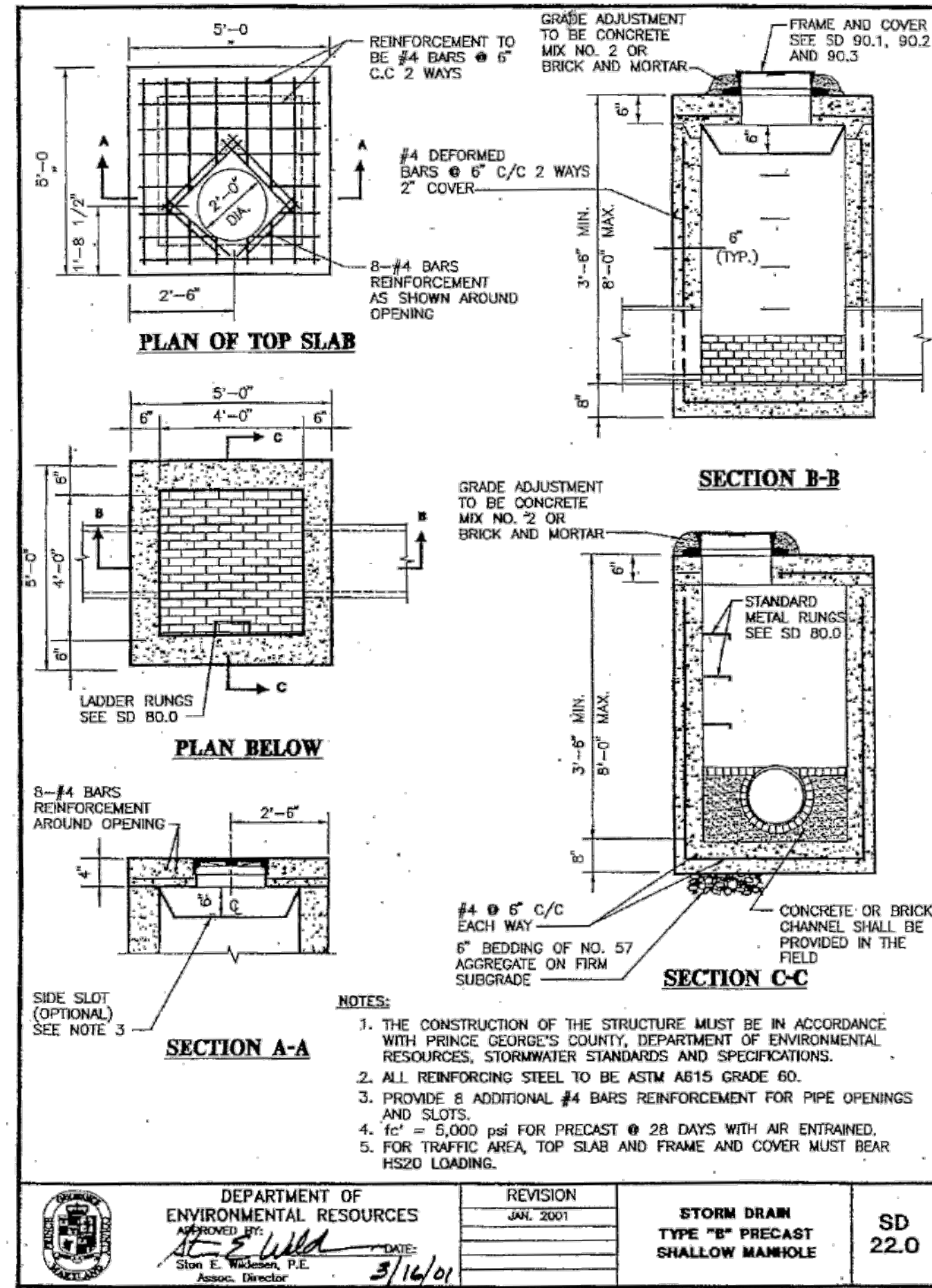
PIPE SCHEDULE

From	To	Size	Type	Length
MH-1	MH-2	15"	RCP CLASS IV	75'
MH-2	MH-3	15"	RCP CLASS IV	48'



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

License No.: 22521 Expiration Date: 2-17-2026



PERMIT REQUIREMENTS

CONCEPTUAL APPROVAL	NOT REQ'D
FLOODPLAIN APPROVAL	NOT REQ'D
PGSCD <5000 sf DISTURBED	REQ'D
P.G. COUNTY DPIE	REQ'D
M.N.C.P. & P.C.	REQ'D
WSOC	REQ'D
STATE HWY. ADM	NOT REQ'D
M.D.E. WATERWAY CONST.	NOT REQ'D
M.D.E. DAM SAFETY	NOT REQ'D
ARMY CORPS OF ENGINEERS	NOT REQ'D
MARYLAND S.W.M. ADM. APPROVAL	NOT REQ'D
M.D.E. - W.Q.C.	NOT REQ'D
TREE PRESERVATION	REQ'D
CRITICAL AREA	REQ'D
DSB, DER	REQ'D
MON NON TIDAL WETLAND PERMIT	REQ'D
MARYLAND DNR	REQ'D

AS-BUILT DATA

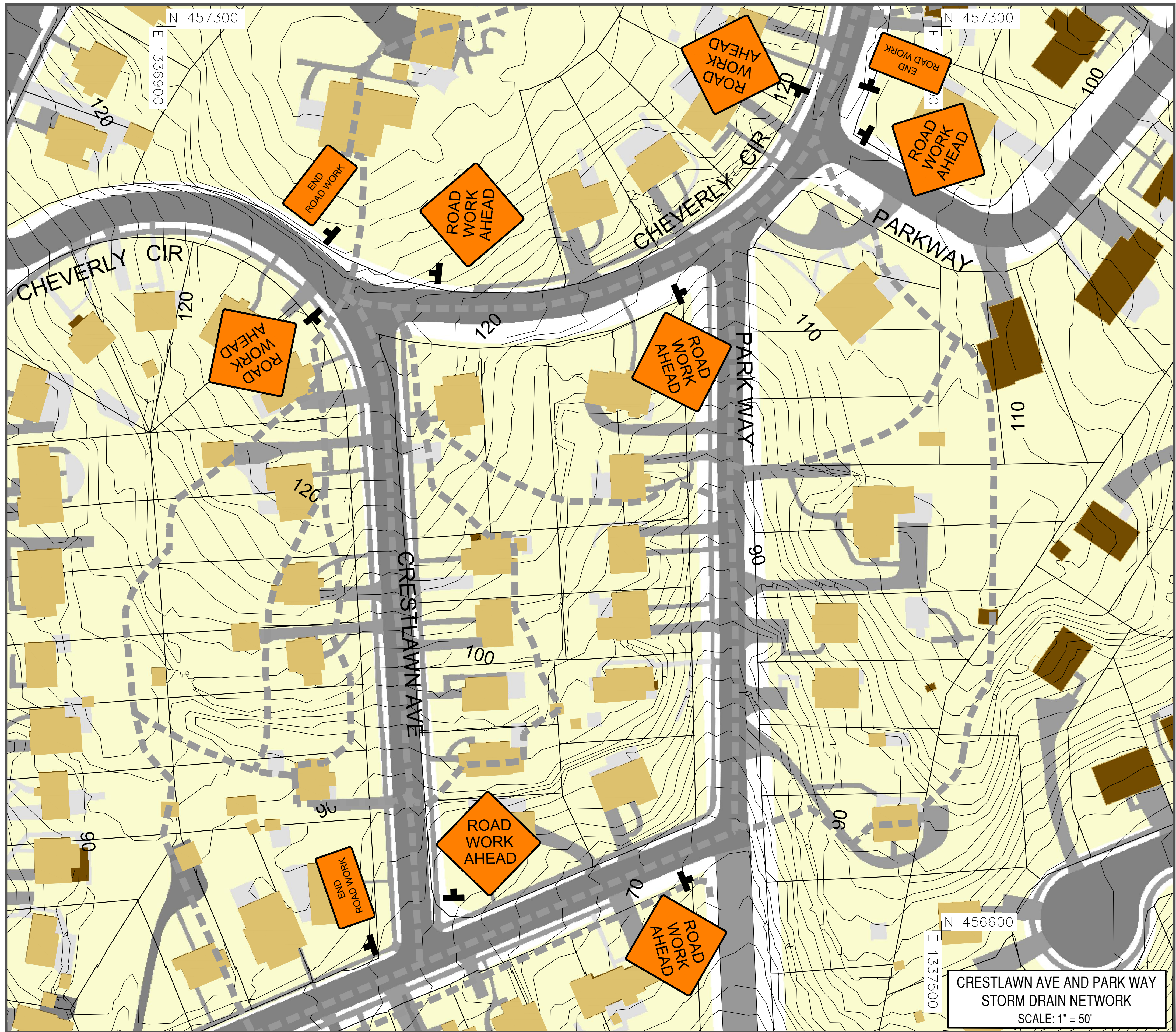
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DEPARTMENT OF THE ENVIRONMENT

ECOSITE, INC.
Ecologically Sustainable Design

4600 POWDER MILL RD
STE 450-S16
BELTSVILLE, MD 20705
PHONE: (410) 804-8000

Town of Cheverly
CRESTLAWN AVE,
PARKWAY & PARKWAY PL.
STORM DRAIN RETROFIT

MAINTENANCE OF
TRAFFIC

MOT-1

