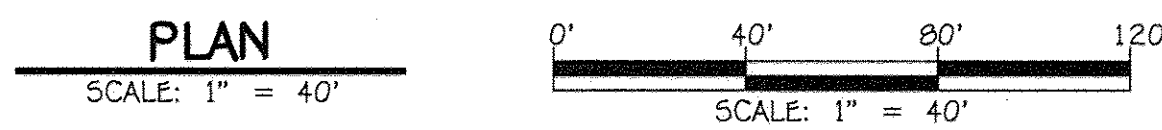


FOR CONTINUATION SEE SHEET 3



AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE: *D.A.D.* DATE: 04/23/16
 NAME: DENNIS A. DORSEY, MD LICENSE NO. 45264
 EXP. DATE: 04/10/20

LEGEND	
SYMBOL	DESCRIPTION
--- 108 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
x x	EXISTING FENCE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	EXISTING RESTRICTION LINE
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	APPROXIMATE AREA OF DEMOLITION
---	TREE PROTECTION FENCE

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 33 CONTONAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FIDELITY CITY, MARYLAND 21042
 (410) 441-2000

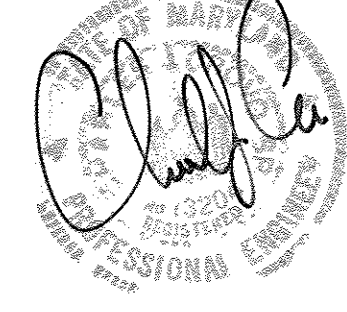
"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2016."

Charles J. Grovo
 CHARLES J. GROVO, SR., P.E.
 1/07/16 DATE

DATE	DESCRIPTION	REVISION BLOCK
11/11/15	REVISE SHEET NUMBER	
2/11/15	REVISE SHEET NUMBER	
2-11-15	DATE	
2-5-15	DATE	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
William A. Mackay 2-11-15
 Director - Department of Planning and Zoning
Kurt Schneider 2-11-15
 Chief, Division of Land Development
Chad Schuch 2-5-15
 Chief, Development Engineering Division

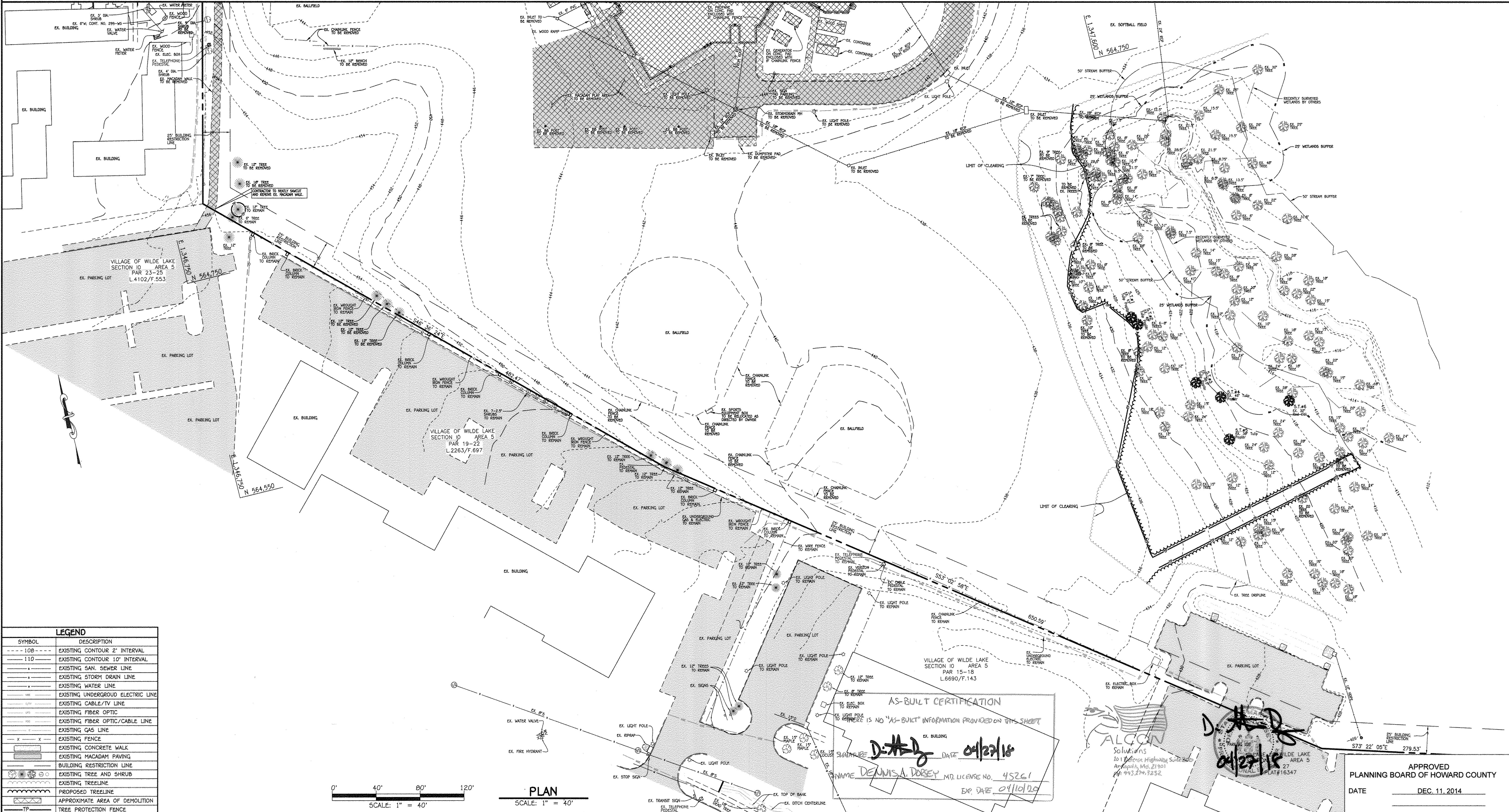
PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 2045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



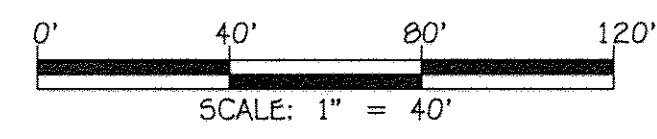
Address Chart					
Parcel Number	Street Address				
280	10401 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L.15/F.90&91	24.6	NT	29,35	FIFTH	6054
WATER CODE	E-30	SEWER CODE	5523900		

AS-BUILT DEMOLITION PLAN
VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 2 OF 54

FOR CONTINUATION SEE SHEET 2



LEGEND	
SYMBOL	DESCRIPTION
--- 10B ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
X X	EXISTING FENCE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	BUILDING RESTRICTION LINE
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	APPROXIMATE AREA OF DEMOLITION
---	TREE PROTECTION FENCE



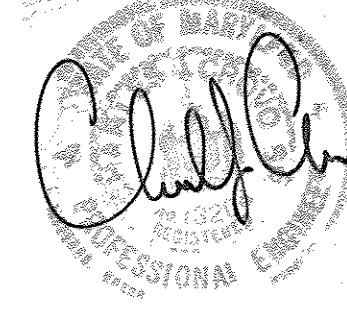
PLAN
SCALE: 1" = 40'

"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. 13204, Expiration Date: November 3, 2016."

Charles J. Crovo, Sr.
CHARLES J. CROVO, SR., P.E. 1/27/15 DATE

DATE	REVISION	DESCRIPTION
11/21/16	REVISE SHEET NUMBER	
01/11/15	REVISE SHEET NUMBER	
		REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>William J. Mosley, Jr.</i> 2-1-15 DATE		
Director, Department of Planning and Zoning		
<i>Michael J. Dwyer</i> 2-11-15 DATE		
Chief, Division of Land Development		
<i>Chad E. ...</i> 2-5-15 DATE		
Chief, Development Engineering Division		

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



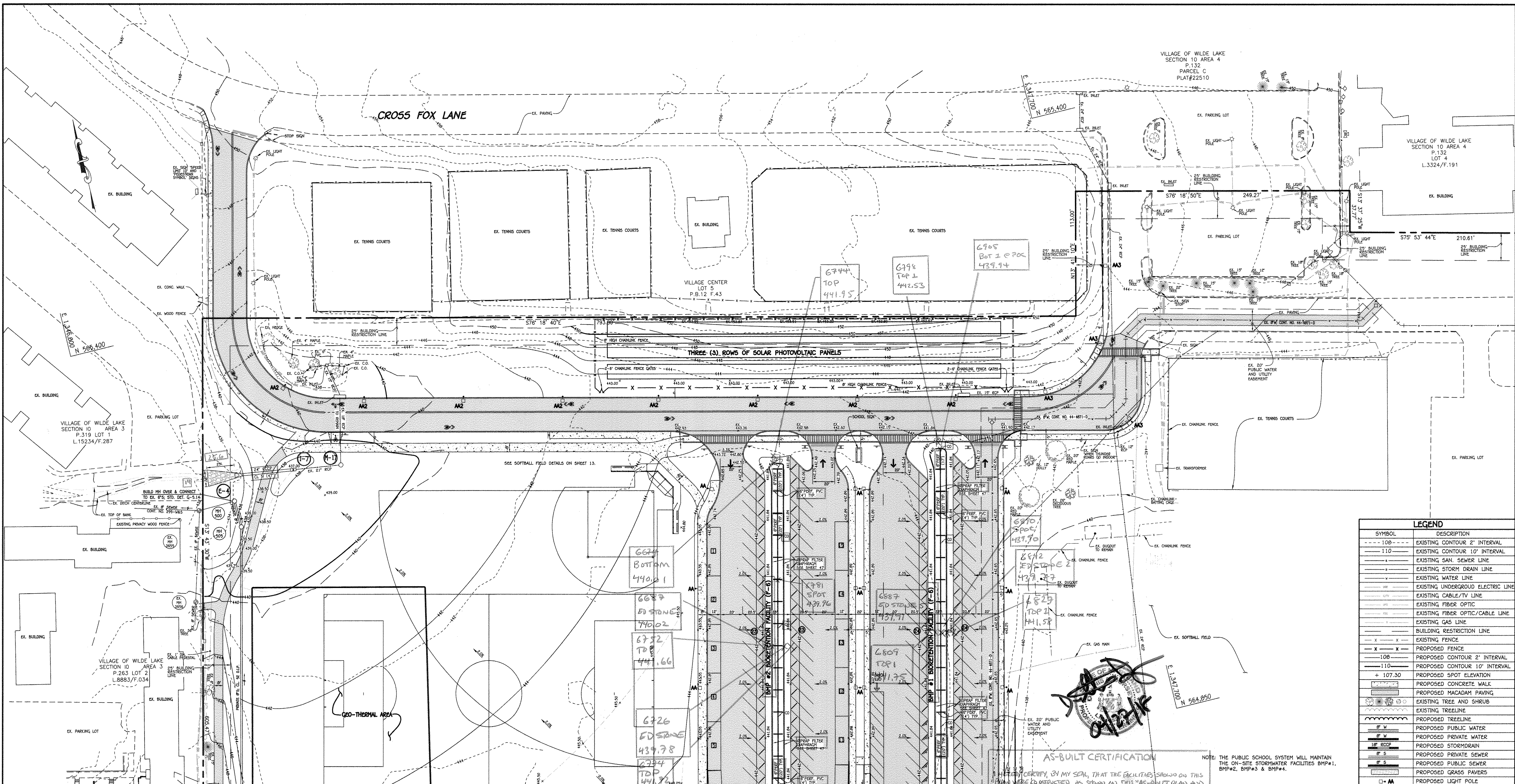
Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L.15/F.90&91	24.6	NT	29,35	FIFTH	6054
WATER CODE	SEWER CODE				
E-30	5523900				

AS-Built DEMOLITION PLAN	
VILLAGE OF WILDE LAKE SECTION 11 AREA 1 LOT 1 WILDE LAKE MIDDLE SCHOOL	
ZONED: NT	PARCEL No.: 280
TAX MAP No.: 29	GRID No.: 24
TAX MAP No.: 35	GRID No.: 6
FIFTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
SCALE: 1" = 40'	DATE: JANUARY 30, 2015
SHEET 3 OF 54	

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE DEC. 11, 2014

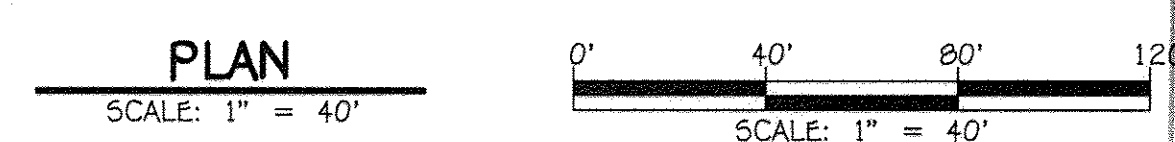
I:\2011\1059\Engineering\Drawings\1059-4002_SDP_SHEET 2-3 DEMO PLAN.dwg, DEMO 2, 1/27/2015 3:31:05 PM, 11

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SOURCE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2995

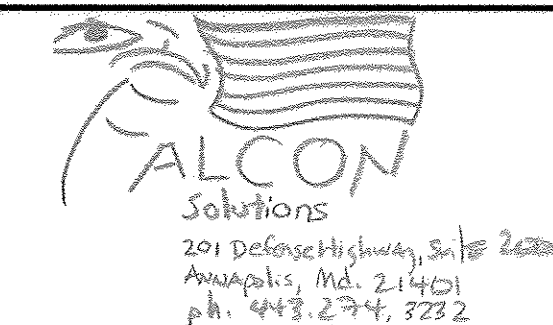


SYMBOL	DESCRIPTION
--- 108 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	BUILDING RESTRICTION LINE
---	EXISTING FENCE
---	PROPOSED FENCE
--- 108 ---	PROPOSED CONTOUR 2' INTERVAL
--- 110 ---	PROPOSED CONTOUR 10' INTERVAL
+ 107.30	PROPOSED SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
W	PROPOSED PUBLIC WATER
PW	PROPOSED PRIVATE WATER
SC	PROPOSED STORMDRAIN
PS	PROPOSED PRIVATE SEWER
PS	PROPOSED PUBLIC SEWER
---	PROPOSED GRASS PAVERS
LP	PROPOSED LIGHT POLE

FOR CONTINUATION SEE SHEET 5



AS-BUILT CERTIFICATION
 I HEREBY CERTIFY, BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED IN ACCORDANCE WITH THE AS-BUILT PLAN AND THAT THIS PLAN MEETS THE APPROVED PLAN AND SPECIFICATIONS.
 SIGNATURE: *Dorley* DATE: 04/22/16
 NAME: DEWANE A. DORLEY MD, LICENSE NO. 45261
 EXP. DATE: 04/10/20



APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELIZABETH CITY, MARYLAND 21046
 (410) 481-2000

"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. 13204. Expiration Date: November 3, 2016."
 Signature: *Charles J. Carvo, Sr.* DATE: 1/27/15
 CHARLES J. CARVO, SR., P.E.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Director: *William A. Mackay, Jr.* DATE: 2-11-15
 Chief, Division of Land Development
Chad DATE: 2-5-15
 Chief, Development Engineering Division

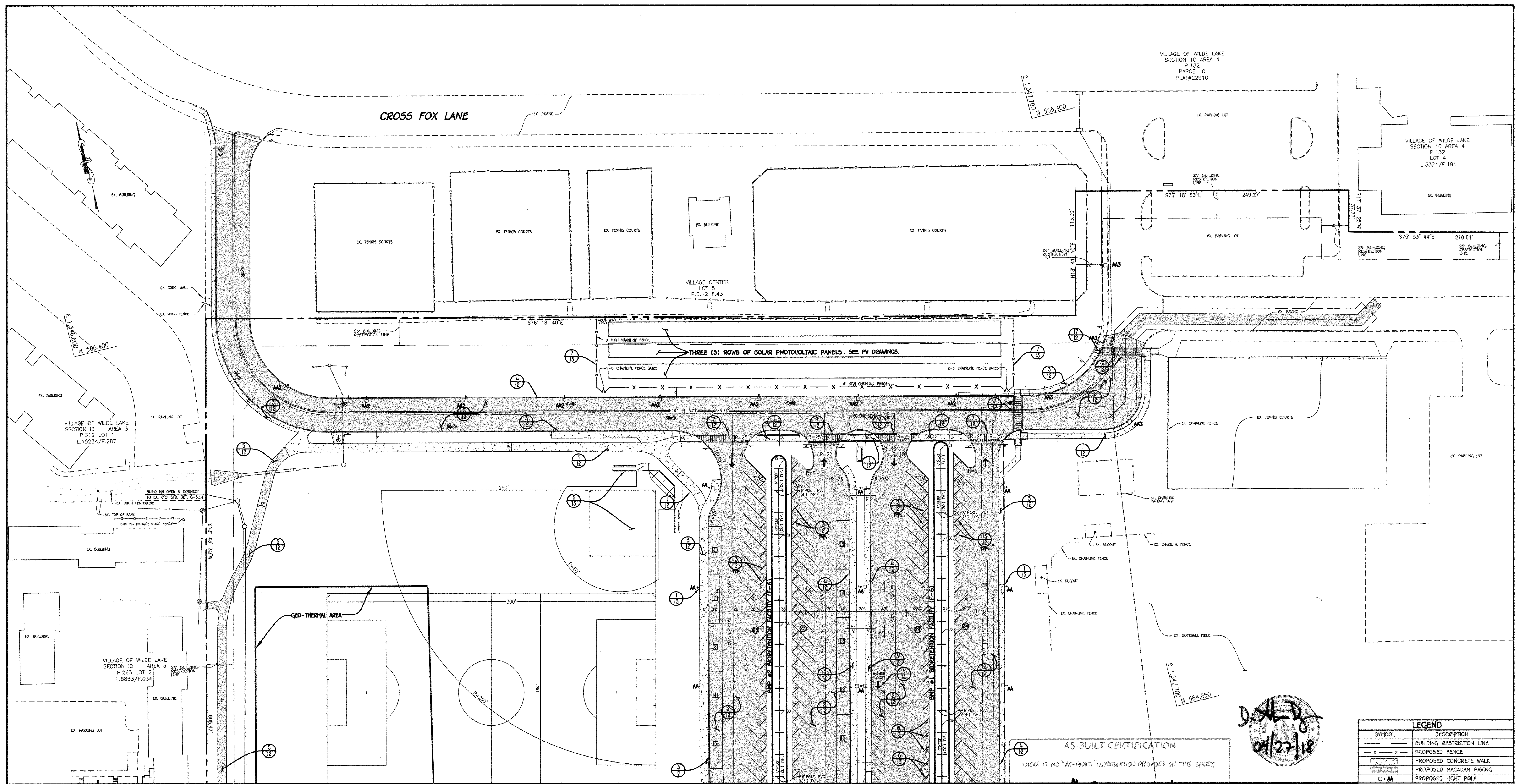
PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805

Address Chart	
Parcel Number	Street Address
280	10401 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280
PLAT NOS. 23161-23163 L.15/F.90&91	BLOCK NO. 24.6	ZONE NT
TAX MAP 29.35	ELEC. DIST. FIFTH	CENSUS TR. 6054
WATER CODE E-30	SEWER CODE 5523900	

SITE DEVELOPMENT PLAN
 As-Built WILDE LAKE MIDDLE SCHOOL
 SECTION 11 AREA 1
 LOT 1
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 4 OF 54





VILLAGE OF WILDE LAKE
SECTION 10 AREA 4
P.132
PARCEL C
PLAT#22510

CROSS FOX LANE

VILLAGE CENTER
LOT 5
P.B.12 F.43

THREE (3) ROWS OF SOLAR PHOTOVOLTAIC PANELS. SEE PV DRAWINGS.

VILLAGE OF WILDE LAKE
SECTION 10 AREA 4
P.132
LOT 4
L.3324/F.191

VILLAGE OF WILDE LAKE
SECTION 10 AREA 3
P.319 LOT 1
L.15234/F.287

VILLAGE OF WILDE LAKE
SECTION 10 AREA 3
P.263 LOT 2
L.8883/F.034

LEGEND	
—	BUILDING RESTRICTION LINE
-x-x-	PROPOSED FENCE
—	PROPOSED CONCRETE WALK
—	PROPOSED MACADAM PAVING
□+M	PROPOSED LIGHT POLE

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

D. Dorsey
04/27/18

FOR CONTINUATION SEE SHEET 7

SIGNATURE *D. Dorsey* DATE 04/27/18
NAME DEWENIS A. DORSEY MD. LICENSE NO. 452261
EXP. DATE 04/19/20

FALCON
Solutions
201 Defense Highway Suite 200
Annapolis, MD 21401
ph: 410.274.3232

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE DEC. 11, 2014

PLAN
SCALE: 1" = 40'

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

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13207, Expiration Date: November 3, 2016."

Charles J. Grovo
CHARLES J. GROVO, SR., P.E. DATE 1/21/15

DATE	REVISION	DESCRIPTION
11/16/16	REVISED SHEET NUMBER	
07/11/15	REVISED SHEET NUMBER	
	REVISION BLOCK	
	APPROVED: DEPARTMENT OF PLANNING AND ZONING	
	Director, Department of Planning and Zoning	2-11-15 Date
	Chief, Division of Land Development	2-11-15 Date
	Chief, Development Engineering Division	2-5-15 Date

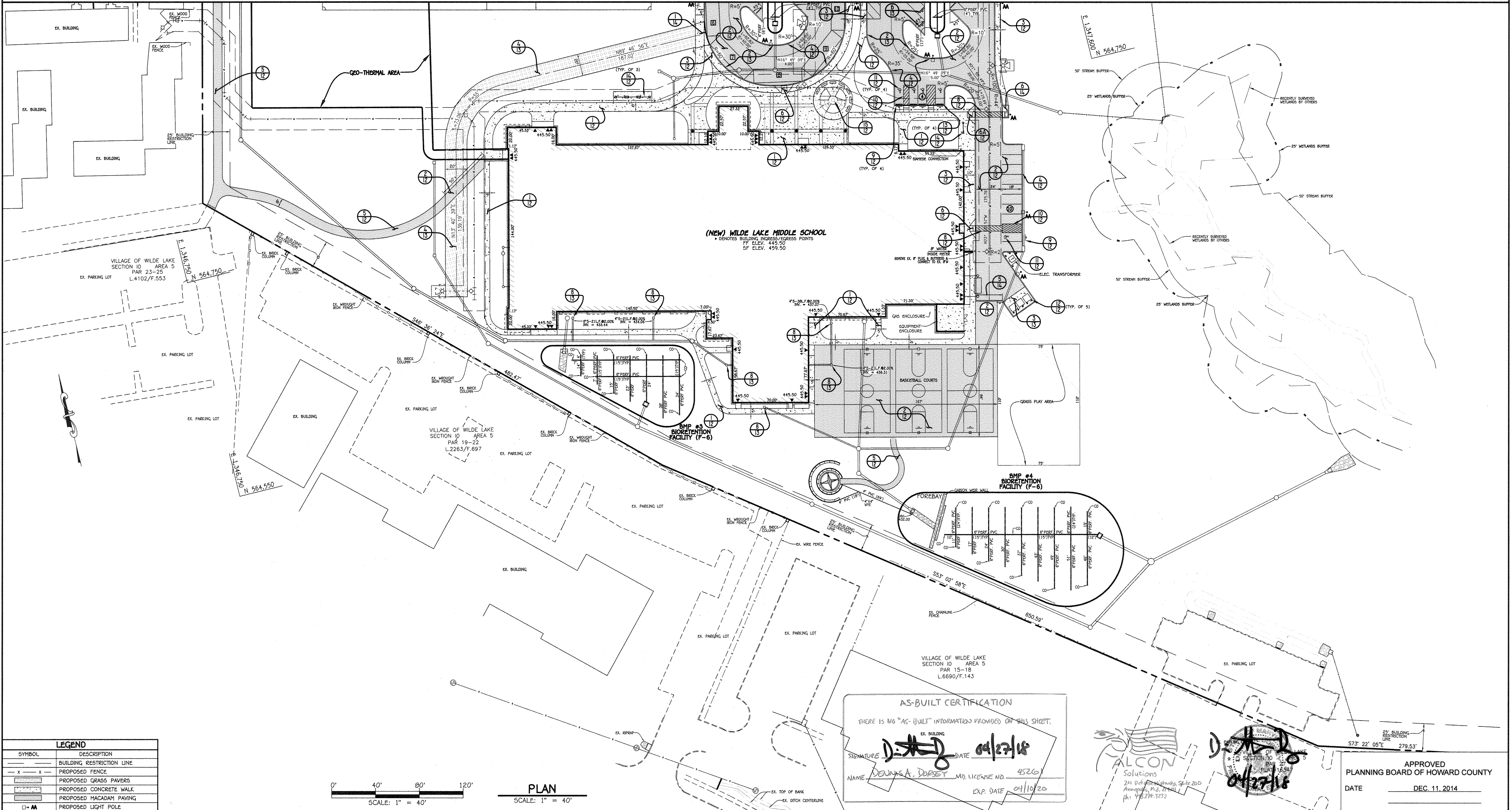
PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PARCEL	280				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L.15/F.90&91	24,6	NT	29,35	FIFTH	6054
WATER CODE	E-30	SEWER CODE	5523900		

AS-BUILT GEOMETRY PLAN
VILLAGE OF WILDE LAKE
SECTION 10 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: JANUARY 30, 2015
SHEET 6 OF 54

FOR CONTINUATION SEE SHEET 6



(NEW) WILDE LAKE MIDDLE SCHOOL
 * DENOTES BUILDING INGRESS/EGRESS POINTS
 FF ELEV. 445.50
 SF ELEV. 459.50

BMP #3 BIORETENTION FACILITY (F-6)

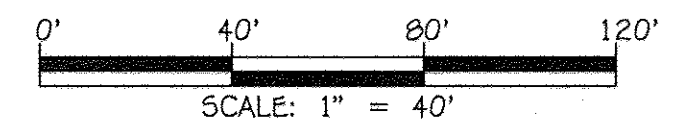
BMP #4 BIORETENTION FACILITY (F-6)

AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 DATE: 04/27/16
 SIGNATURE: [Signature]
 NAME: DENNIS A. ROBERTS MD. LICENSE NO. 45263
 EXP. DATE: 04/11/20

ALCON Solutions
 241 Old River Highway, Suite 200
 Annapolis, Md. 21404
 Tel: 410.274.3232

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

LEGEND	
SYMBOL	DESCRIPTION
[Solid line]	BUILDING RESTRICTION LINE
[Dashed line]	PROPOSED FENCE
[Stippled area]	PROPOSED GRASS PAVERS
[Dotted area]	PROPOSED CONCRETE WALK
[Cross-hatched area]	PROPOSED MACADAM PAVING
[Circle with cross]	PROPOSED LIGHT POLE



PLAN
 SCALE: 1" = 40'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
 ELKLOTT CITY, MARYLAND 21048
 (410) 481-2999

"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. 13204, Expiration Date: November 3, 2016."
 [Signature]
 CHARLES J. CROVO, SR., P.E.
 DATE: 1/27/15

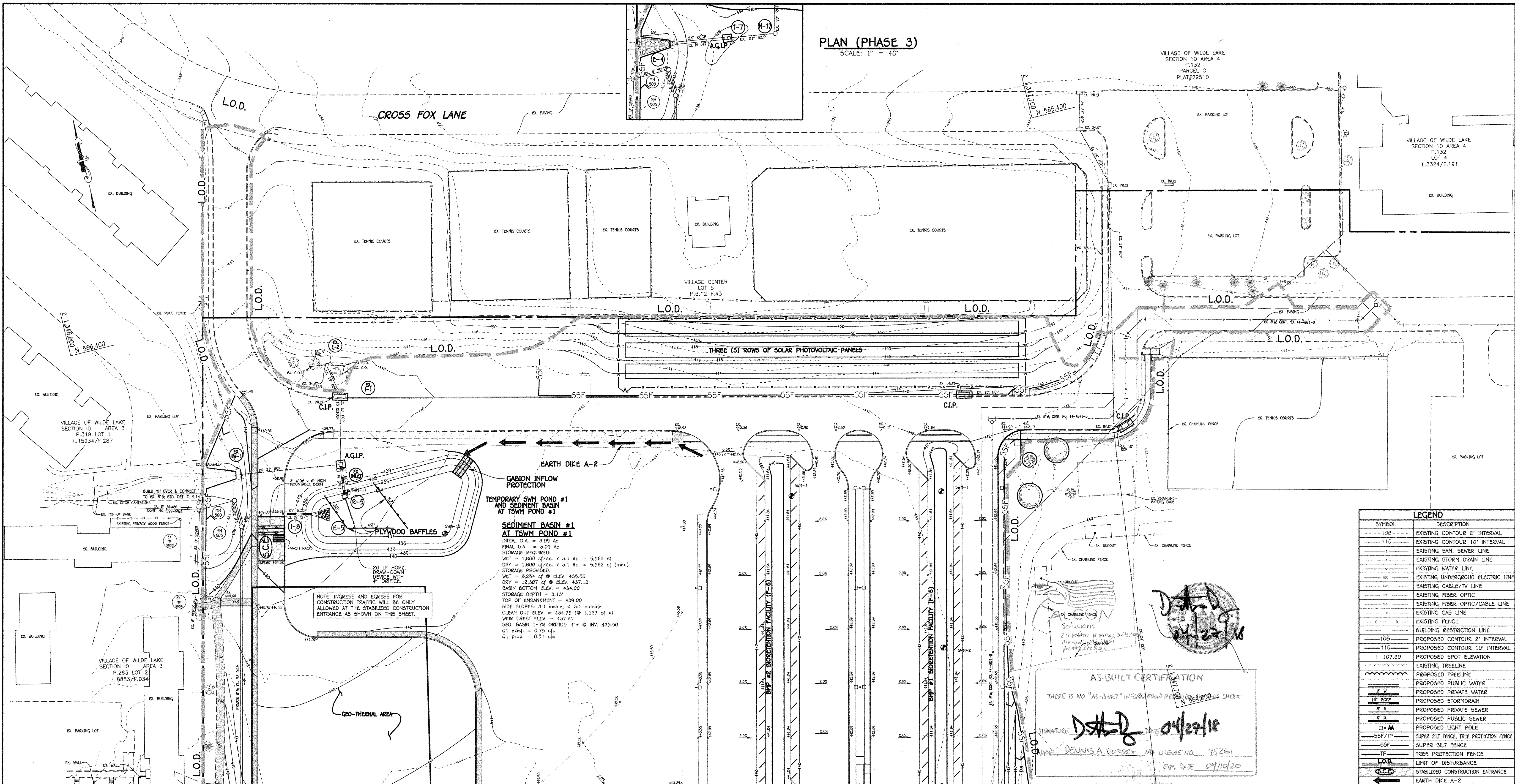
DATE	DESCRIPTION	REVISION BLOCK
11/21/12	REMOVE RETAINING WALL & REVISE SHEET NUMBER	
9/11/12	REVISE SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
[Signature]	2-11-15	Date
[Signature]	2-11-15	Date
[Signature]	2-5-15	Date

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805

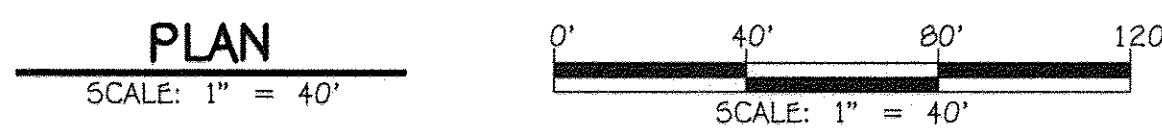


Address Chart					
Parcel Number	Street Address				
280	10401 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L.15/F.90&91	24,6	NT	29.35	FIFTH	6054
WATER CODE	SEWER CODE				
E-30	5523900				

AS-BUILT GEOMETRY PLAN	
VILLAGE OF WILDE LAKE SECTION 11 AREA 1 LOT 1 WILDE LAKE MIDDLE SCHOOL	
ZONED: NT	PARCEL No.: 280
TAX MAP No.: 29	GRID No.: 24
TAX MAP No.: 35	GRID No.: 6
FIFTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
SCALE: 1" = 40'	DATE: JANUARY 30, 2015
SHEET 7 OF 54	



FOR CONTINUATION SEE SHEET 9



LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
- - -	EXISTING CONTOUR 10' INTERVAL
- - -	EXISTING SAN. SEWER LINE
- - -	EXISTING STORM DRAIN LINE
- - -	EXISTING WATER LINE
- - -	EXISTING UNDERGROUND ELECTRIC LINE
- - -	EXISTING CABLE/TV LINE
- - -	EXISTING FIBER OPTIC
- - -	EXISTING FIBER OPTIC/CABLE LINE
- - -	EXISTING GAS LINE
- - -	EXISTING FENCE
- - -	BUILDING RESTRICTION LINE
- - -	PROPOSED CONTOUR 2' INTERVAL
- - -	PROPOSED CONTOUR 10' INTERVAL
+ 107.30	PROPOSED SPOT ELEVATION
- - -	EXISTING TREELINE
- - -	PROPOSED TREELINE
- - -	PROPOSED PUBLIC WATER
- - -	PROPOSED PRIVATE WATER
- - -	PROPOSED STORMDRAIN
- - -	PROPOSED PRIVATE SEWER
- - -	PROPOSED PUBLIC SEWER
- - -	PROPOSED LIGHT POLE
- - -	SUPER SILT FENCE, TREE PROTECTION FENCE
- - -	SUPER SILT FENCE
- - -	TREE PROTECTION FENCE
- - -	LIMIT OF DISTURBANCE
- - -	STABILIZED CONSTRUCTION ENTRANCE
- - -	EARTH DIKE A-2

AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET
 SIGNATURE: *D.A.D.* DATE: 04/27/18
 NAME: DENNIS A. DORSEY, M.E. LICENSE NO. 45261
 EXP. DATE: 04/10/20

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10722 BALDWIN NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2000

ENGINEER'S CERTIFICATE
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature of Engineer: *Charles J. Drovo* DATE: 12/18/14

DEVELOPER'S CERTIFICATE
 "I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Signature of Developer: *Scott W. Wandy* DATE: 12/18/14

"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. 13267, Expiration Date: November 3, 2016."
 Signature: *Charles J. Drovo* DATE: 12/18/14
 CHARLES J. DROVO, SR., P.E.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John R. Roberts* DATE: 12/18/14
 John R. Roberts, Howard SCD

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Director - Department of Planning and Zoning: *William F. Madson* DATE: 2-11-15
 Chief, Division of Land Development: *Scott Wandy* DATE: 2-11-15
 Chief, Development Engineering Division: *John Roberts* DATE: 2-5-15

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805

Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
291G1, 291C2 & 291D3	24.6	NT	29.35	FIFTH	6054

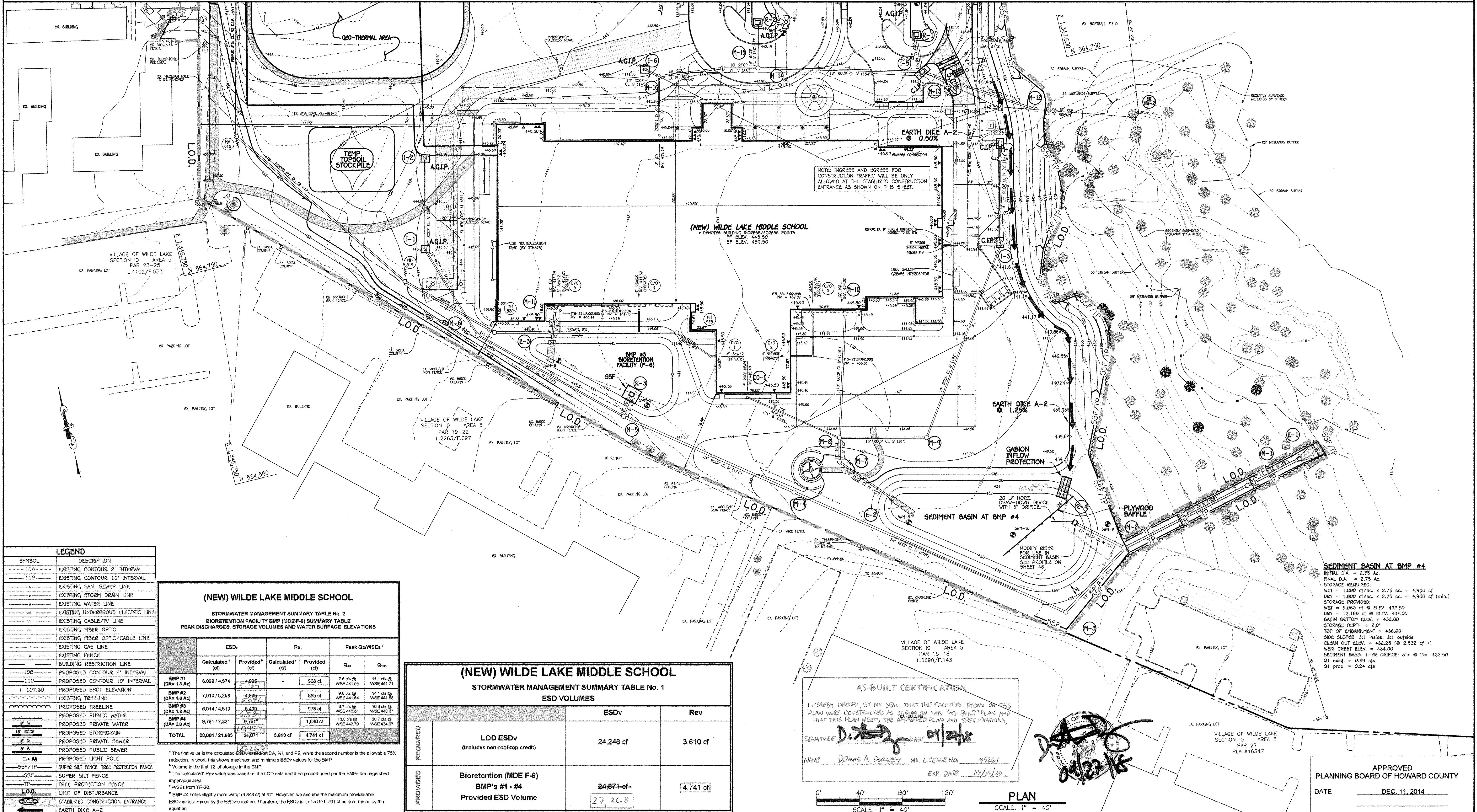
WATER CODE: E-30 SEWER CODE: 5523900



SEDIMENT AND EROSION CONTROL PLAN
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: DECEMBER 11, 2014
 SHEET 8 OF 54

FOR CONTINUATION SEE SHEET 8



LEGEND

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
X	EXISTING FENCE
---	BUILDING RESTRICTION LINE
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED SPOT ELEVATION
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED PUBLIC WATER
---	PROPOSED PRIVATE WATER
---	PROPOSED STORM DRAIN
---	PROPOSED PRIVATE SEWER
---	PROPOSED PUBLIC SEWER
---	PROPOSED LIGHT POLE
---	SUPER SILT FENCE, TREE PROTECTION FENCE
---	SUPER SILT FENCE
---	TREE PROTECTION FENCE
---	LIMIT OF DISTURBANCE
---	STABILIZED CONSTRUCTION ENTRANCE
---	EARTH DIKE A-2

(NEW) WILDE LAKE MIDDLE SCHOOL

STORMWATER MANAGEMENT SUMMARY TABLE No. 2
BIORETENTION FACILITY BMP (MDE F-6) SUMMARY TABLE
PEAK DISCHARGES, STORAGE VOLUMES AND WATER SURFACE ELEVATIONS

	ESD _v		Rev _v		Peak Qs/WSEs*	
	Calculated* (cf)	Provided* (cf)	Calculated* (cf)	Provided* (cf)	Q ₁₀	Q ₁₀₀
BMP #1 (DA= 1.3 Ac)	6,099 / 4,574	4,805	-	988 cf	7.6 cfs @ WSE 441.55	11.1 cfs @ WSE 441.71
BMP #2 (DA= 1.8 Ac)	7,010 / 5,258	4,805	-	955 cf	8.8 cfs @ WSE 441.54	14.1 cfs @ WSE 441.83
BMP #3 (DA= 1.3 Ac)	6,014 / 4,510	5,200	-	978 cf	8.7 cfs @ WSE 443.51	10.3 cfs @ WSE 443.87
BMP #4 (DA= 2.8 Ac)	9,761 / 7,321	9,761	-	1,840 cf	13.0 cfs @ WSE 443.79	20.7 cfs @ WSE 434.07
TOTAL	28,884 / 21,663	24,871	3,810 cf	4,741 cf		

* The first value is the calculated ESD_v based on DA, %I, and PE, while the second number is the allowable 75% reduction. In short, this shows maximum and minimum ESD_v values for the BMP.
* The "calculated" Rev_v value was based on the LOD data and then proportioned per the BMP's drainage shed impervious area.
* WSEs from TR-20
* BMP #4 holds slightly more water (9,848 cf) at 12". However, we assume the maximum provided-ade ESD_v is determined by the ESD_v equation. Therefore, the ESD_v is limited to 9,761 cf as determined by the equation.

(NEW) WILDE LAKE MIDDLE SCHOOL

STORMWATER MANAGEMENT SUMMARY TABLE No. 1
ESD VOLUMES

REQUIRED	ESD _v	Rev
LOD ESD _v (includes non-roof-top credit)	24,248 cf	3,610 cf
Bioretention (MDE F-6) BMP's #1 - #4 Provided ESD Volume	24,871 cf 27,268	4,741 cf

AS-BUILT CERTIFICATION

I HEREBY CERTIFY, BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND THAT THIS PLAN MEETS THE APPROVED PLAN AND SPECIFICATIONS.

SIGNATURE: *D. Dorsey* DATE: 01/28/15

NAME: DENNIS A. DORSEY, MD, LICENSE NO. 45261 EXP. DATE: 04/10/20

SEDIMENT BASIN AT BMP #4

INITIAL D.A. = 2.75 Ac.
FINAL D.A. = 2.75 Ac.
STORAGE REQUIRED:
WET = 1,800 cf/8ac x 2.75 ac = 4,950 cf
DRY = 1,800 cf/8ac x 2.75 ac = 4,950 cf (min.)
STORAGE PROVIDED:
WET = 5,063 cf @ ELEV. 432.50
DRY = 17,168 cf @ ELEV. 434.00
BASIN BOTTOM ELEV. = 432.00
STORAGE DEPTH = 2.0'
TOP OF EMBANKMENT = 436.00
SIDE SLOPES: 3:1 inside; 3:1 outside
CLEAN OUT ELEV. = 432.25 @ 2,532 cf (+)
WEIR CREST ELEV. = 434.00
SEDIMENT BASIN 1-WR ORIFICE: 3" @ INV. 432.50
Q1 ext. = 0.29 cfs
Q1 prop. = 0.24 cfs

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10772 BALFOUR NATIONAL PLACE
ELLSWORTH CITY, MARYLAND 21042
(410) 461 - 2995

ENGINEER'S CERTIFICATE

"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer: *Charles J. Crovo* DATE: 12/18/14

DEVELOPER'S CERTIFICATE

"I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *John R. Hinton* DATE: 12/18/14

"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. 13204, Expiration Date: November 3, 2016."

Signature: *Charles J. Crovo* DATE: 12/18/14
CHARLES J. CROVO, SR., P.E.

Signature: *John R. Hinton* DATE: 12/18/14
John R. Hinton
Howard SCD

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature: *William A. Mosher* DATE: 2-11-15
Director, Department of Planning and Zoning

Signature: *Val S. DeWolfe* DATE: 2-11-15
Chief, Division of Land Development

Signature: *Chad Schmit* DATE: 2-5-15
Chief, Development Engineering Division

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805

Address Chart

Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT: WILDE LAKE MIDDLE SCHOOL SECTION/AREA: 11/1 PARCEL: 280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
281G1, 281G2 & 281G3	24,6	NT	29,35	FIFTH	6054

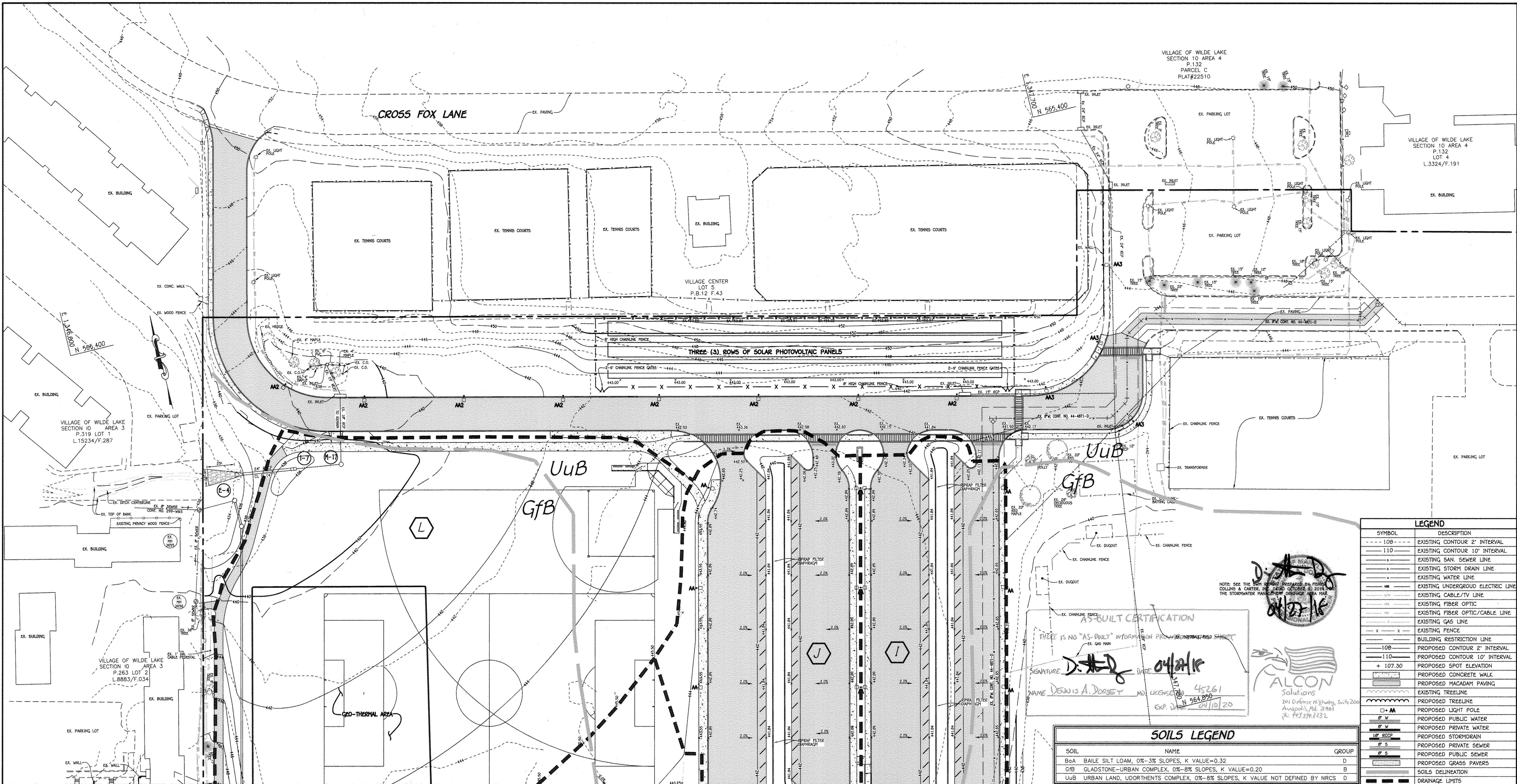
WATER CODE: E-30 SEWER CODE: 5523900

SEDIMENT AND EROSION CONTROL PLAN

AS-BUILT VILLAGE OF WILDE LAKE SECTION 10 AREA 1 WILDE LAKE MIDDLE SCHOOL LOT 1

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT: HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: DECEMBER 11, 2014

SHEET 9 OF 54



FOR CONTINUATION SEE SHEET 11

PLAN

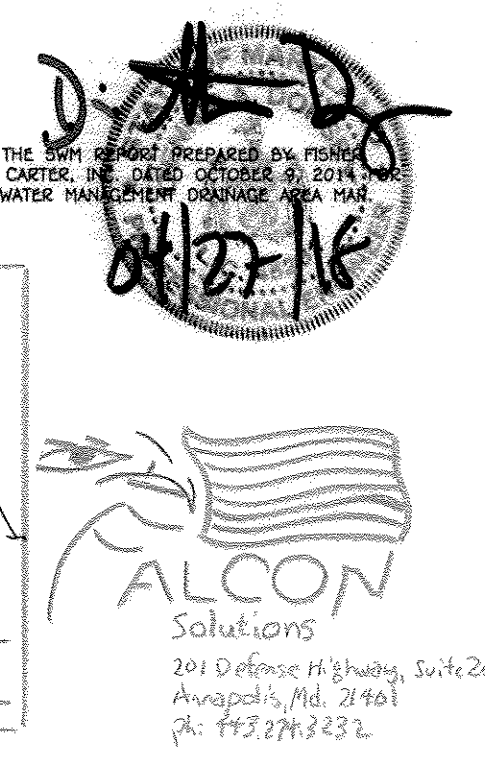
SCALE: 1" = 40'

0' 40' 80' 120'

SCALE: 1" = 40'

LEGEND	
SYMBOL	DESCRIPTION
--- 108 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FENCE
---	BUILDING RESTRICTION LINE
--- 108 ---	PROPOSED CONTOUR 2' INTERVAL
--- 110 ---	PROPOSED CONTOUR 10' INTERVAL
+ 107.30	PROPOSED SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
□ MA	PROPOSED LIGHT POLE
□ W	PROPOSED PUBLIC WATER
□ P W	PROPOSED PRIVATE WATER
□ S	PROPOSED STORMDRAIN
□ S	PROPOSED PRIVATE SEWER
□ S	PROPOSED PUBLIC SEWER
---	PROPOSED GRASS PAVERS
---	SOILS DELINEATION
---	DRAINAGE LIMITS

AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PRESENT ON THIS SHEET
 SIGNATURE: *D. Dorsey* DATE: 04/24/16
 NAME: DENNIS A. DORSEY MD. LICENSE NO. 45261
 EXP. DATE: 04/10/20



SOILS LEGEND		
SOIL	NAME	GROUP
BoA	BAILE SILT LOAM, 0%-3% SLOPES, K VALUE=0.32	D
GfB	GLADSTONE-URBAN COMPLEX, 0%-8% SLOPES, K VALUE=0.20	B
UuB	URBAN LAND, UDORTMENTS COMPLEX, 0%-8% SLOPES, K VALUE NOT DEFINED BY NRCS	D

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10732 BALTIMORE NATIONAL PIKE
 ELKROTT CITY, MARYLAND 21042
 (410) 461-3900

"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. 13204/Expiration Date: November 3, 2016."
 CHARLES J. COVO, SR., P.E. DATE: 1/21/15

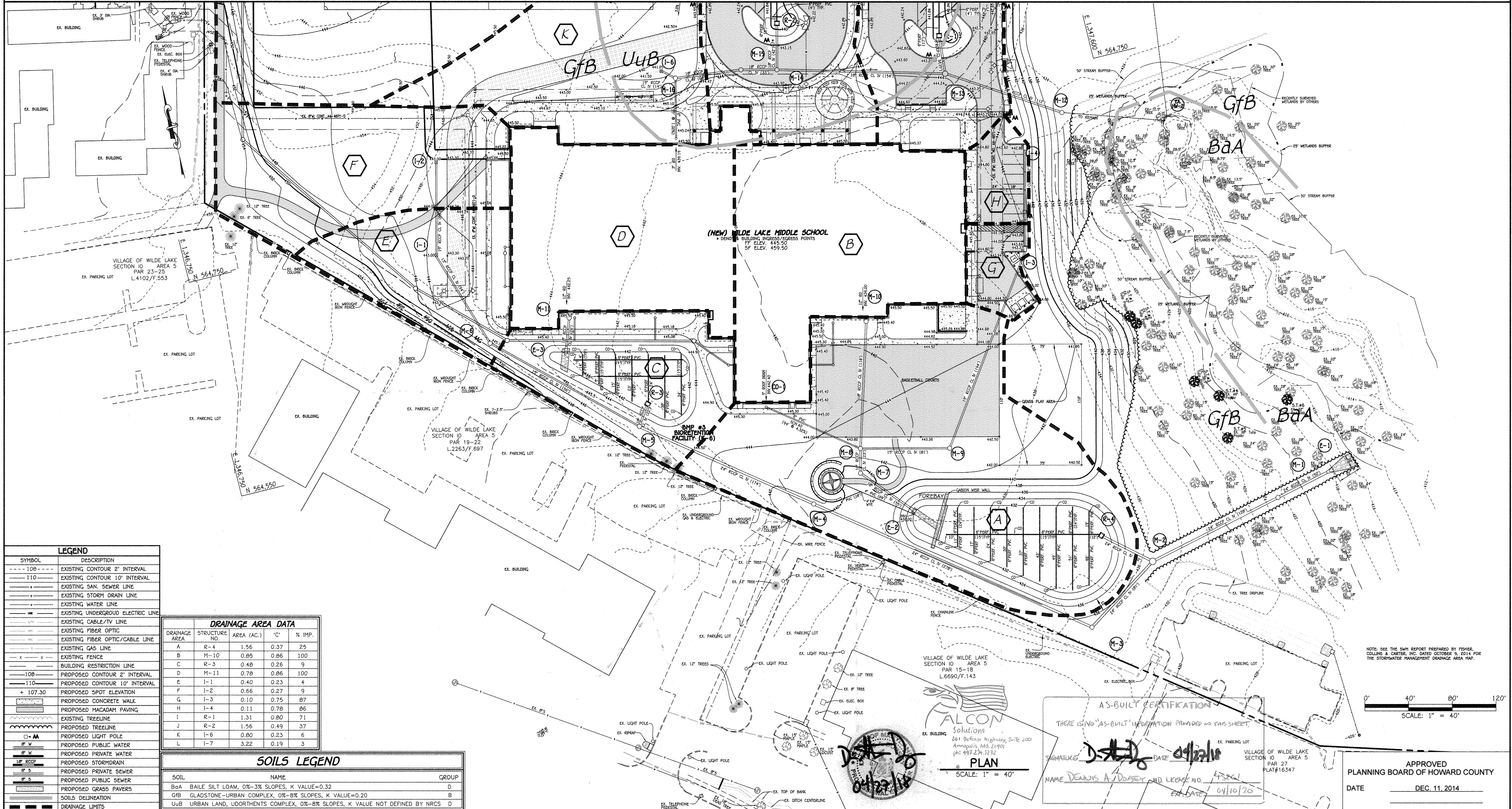
DATE	REVISION	DESCRIPTION
11/21/14	REVISION SHEET NUMBER	
01/11/15	REVISION SHEET NUMBER	
	REVISION BLOCK	
	APPROVED: DEPARTMENT OF PLANNING AND ZONING	
	Director - Department of Planning and Zoning	2-11-15 Date
	Chief, Division of Land Development	2-4-15 Date
	Chief, Development Engineering Division	2-5-15 Date

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	
WILDE LAKE MIDDLE SCHOOL	SECTION/AREA 11/1 PARCEL 280
PLAT NOS. 23161-23163 L.15/F.90&91	BLOCK NO. 24.6 ZONE NT TAX MAP 29.35 ELEC. DIST. FIFTH CENSUS TR. 6054
WATER CODE E-30	SEWER CODE 5523900

AS-BUILT SOILS AND STORMDRAIN DRAINAGE AREA MAP
 VILLAGE OF WILDE LAKE SECTION 11 AREA 1 LOT 1
 WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 10 OF 54



LEGEND

SYMBOL	DESCRIPTION
---108---	EXISTING CONTOUR 2' INTERVAL
---110---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FENCE
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---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED LIGHT POLE
---	PROPOSED PUBLIC WATER
---	PROPOSED PRIVATE WATER
---	PROPOSED STORMDRAIN
---	PROPOSED PRIVATE SEWER
---	PROPOSED PUBLIC SEWER
---	PROPOSED GRASS PAVERS
---	SOILS DELINEATION
---	DRAINAGE LIMITS

DRAINAGE AREA DATA

DRAINAGE AREA	STRUCTURE NO.	AREA (AC.)	% C	% IMP.
A	R-4	1.56	0.37	25
B	M-10	0.85	0.86	100
C	R-3	0.48	0.26	9
D	M-11	0.78	0.86	100
E	I-1	0.40	0.23	4
F	I-2	0.66	0.27	9
G	I-3	0.10	0.75	87
H	I-4	0.11	0.78	86
I	R-1	1.31	0.80	71
J	R-2	1.56	0.49	37
K	I-6	0.80	0.23	6
L	I-7	3.22	0.19	3

SOILS LEGEND

SOIL	NAME	GROUP
BaA	BAILE SILT LOAM, 0%-3% SLOPES, K VALUE=0.32	D
GfB	GLADSTONE-URBAN COMPLEX, 0%-8% SLOPES, K VALUE=0.20	B
UuB	URBAN LAND, UDORTHENTS COMPLEX, 0%-8% SLOPES, K VALUE NOT DEFINED BY NRCS	D

"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. 13204. Expiration Date: November 3, 2016."

Charles J. Croft, Sr., P.E.
 CHARLES J. CROFT, SR., P.E. 1/27/15 DATE

DATE	DESCRIPTION	REVISION BLOCK
11/2/10	REMOVE RETAINING WALL, REMOVE CULVERT & REMOVE SHEET NUMBER	
9/11/10	REMOVE SHEET NUMBER	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
William J. Madson, Jr. 2-11-15 Date
 Director - Department of Planning and Zoning
John S. S. S. 2-11-15 Date
 Chief, Development Engineering Division 2-5-19 Date

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 13204

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

SIGNATURE: *D. A. D.* DATE: 04/10/20
 NAME: DENNIS A. DORSETT, MD LICENSE NO. 47361
 EX. DATE: 04/10/20

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2000

Address Chart

Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24.6	NT	29.35	FIFTH	6054

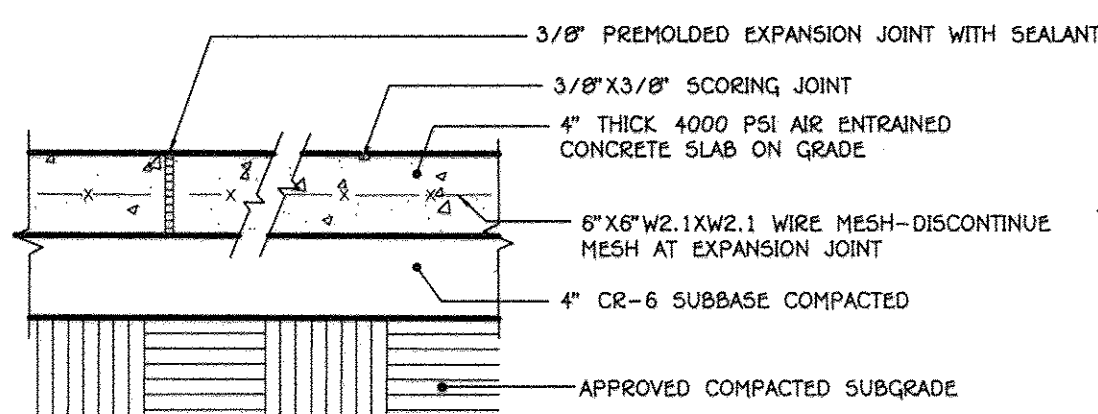
WATER CODE: E-30 SEWER CODE: 5523900

SOILS AND STORMDRAIN DRAINAGE AREA MAP

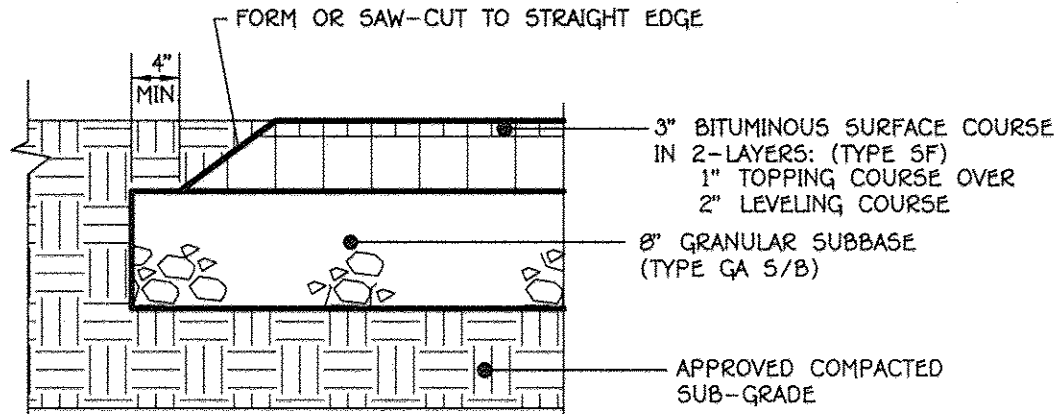
VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015

SHEET 11 OF 54



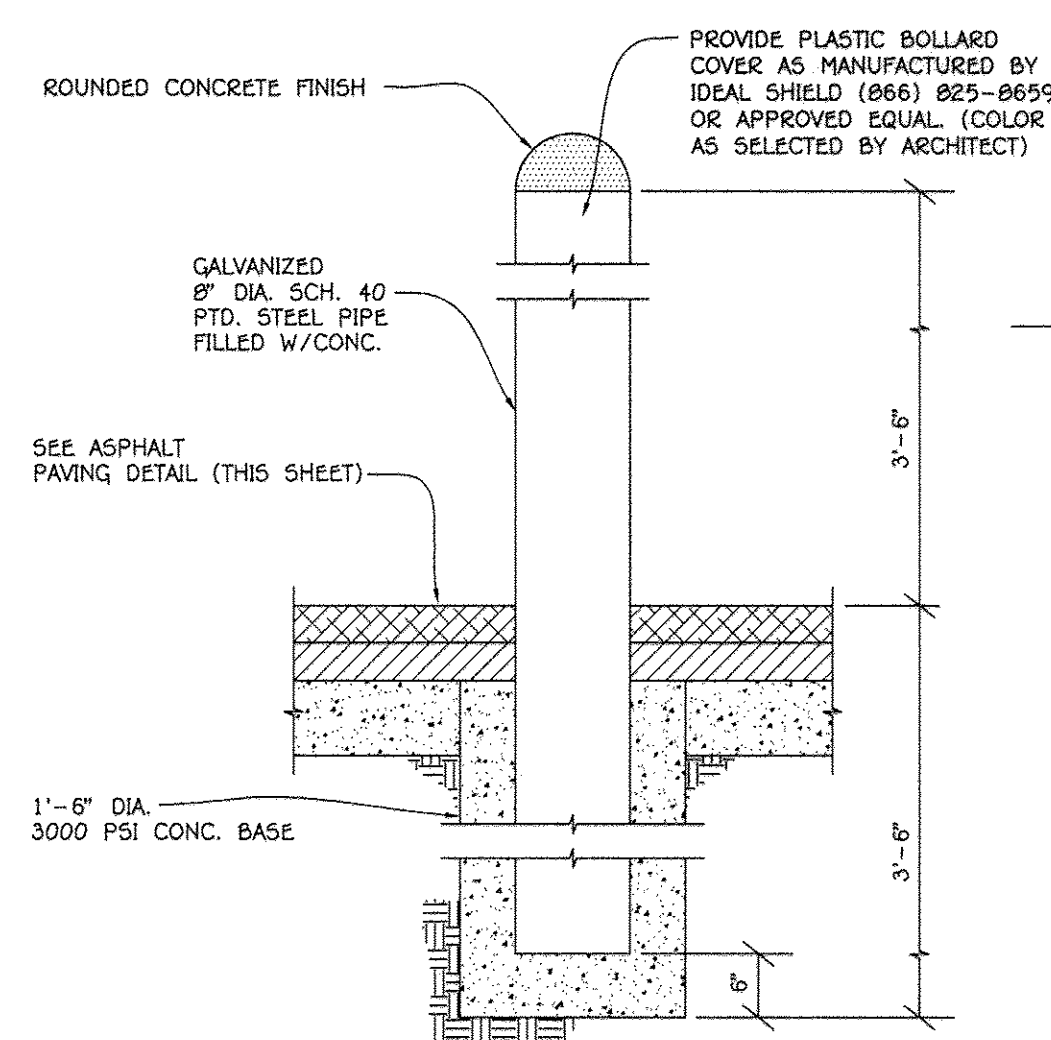
NOTES:
 1. INSTALL EXPANSION JOINTS AT MAX. 15'-0" O.C. AND INSTALL SCORING JOINTS AT MAX. 5'-0" O.C.
 2. SLOPE ACROSS SIDEWALK SHALL BE MIN. 2%.



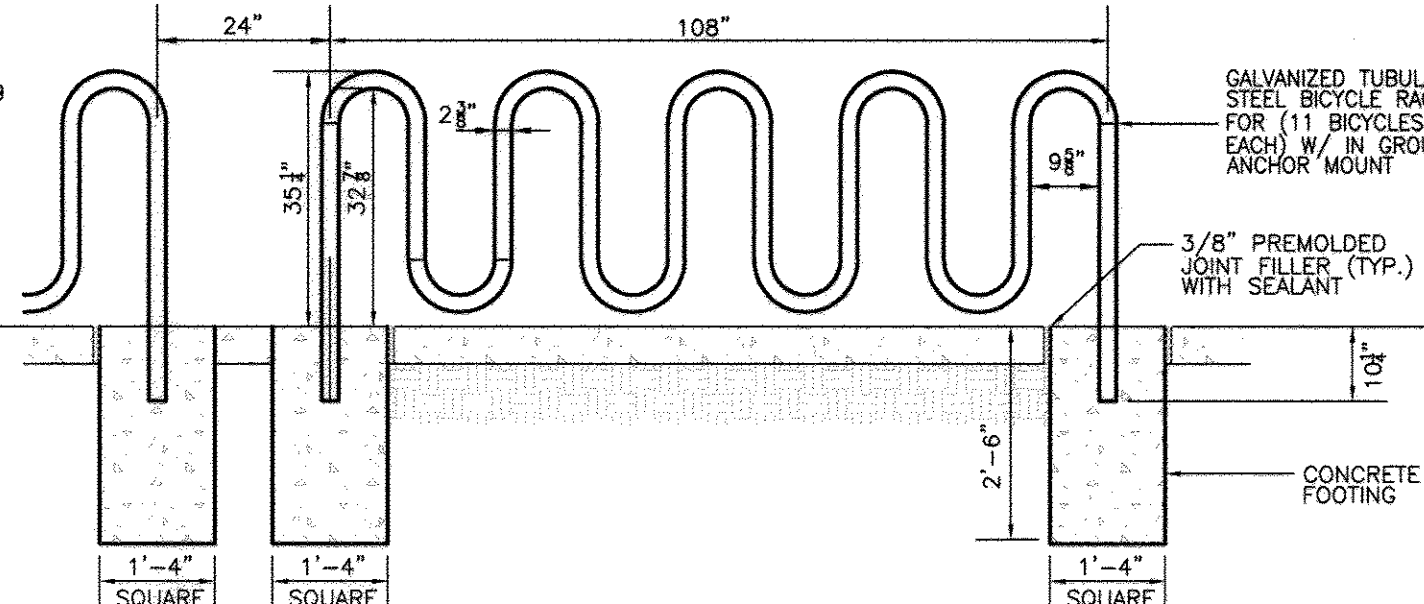
WALKWAY ASPHALTIC PAVING DETAIL
 PERMANENT CONDITIONS
 NO SCALE



GENERAL NOTES:
 1. SIGNS SHALL MEET DESIGN STANDARDS OF THE FEDERAL HIGHWAY ADMINISTRATION AND CONFORM TO THE STATE OF MARYLAND STANDARD HIGHWAY SIGN BOOKLET DETAIL R7-B.
 2. ONE SIGN IS REQUIRED PER SPACE PLACED AS SHOWN ON SITE IMPROVEMENT PLAN.
 3. SIGNS SHALL BE POLE MOUNTED WITH HOT DIPPED GALVANIZED COUNTY APPROVED PERFORATED CHANNEL POSTS W/TOP OF SIGNS 9'-1" ABOVE FINISHED GRADE OR AS INDICATED ON SITE DRAWINGS.
 4. SIGN SHALL BE ATTACHED TO FLANGED SIDE OF POST. POST SHALL EXTEND INTO GROUND 2'-6" MIN.
 5. COLORS: LEGEND AND BORDER-**GREEN**
 SYMBOL-WHITE ON BLUE BACKGROUND
 BACKGROUND-WHITE
 6. CONTRACTOR SHALL COORDINATE ARROW DIRECTION WITH LOCATION OF ADJACENT AISLE.
 7. SPACES INDICATED ON SITE DEVELOPMENT PLANS AS "VAN ACCESSIBLE" SHALL BE SIGNED ACCORDINGLY.

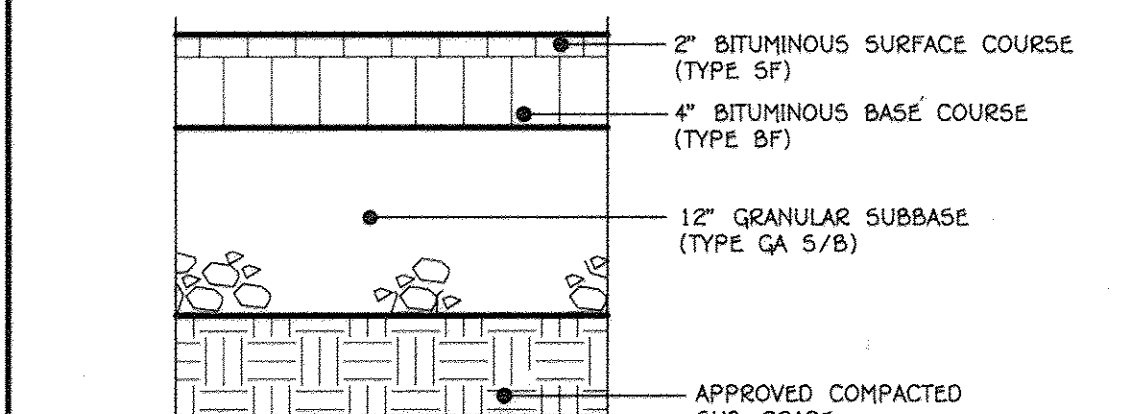


BOLLARD DETAIL
 NO SCALE

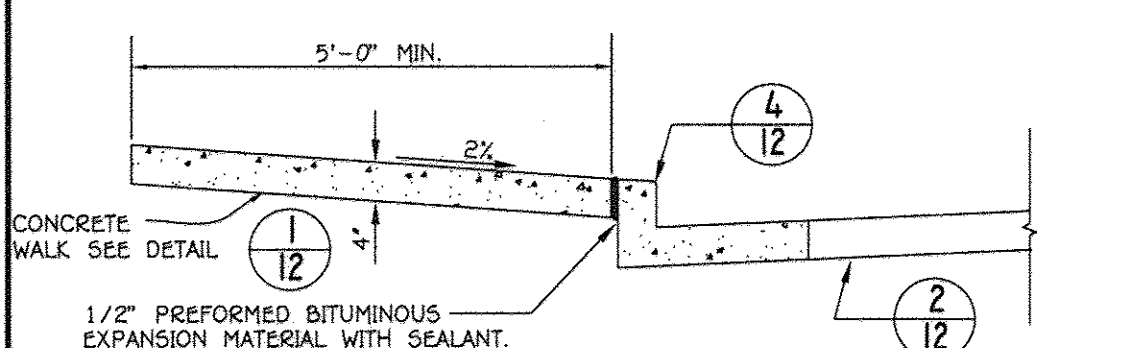


BICYCLE RACK DETAIL
 NO SCALE

1 CONCRETE WALK DETAIL
 NO SCALE

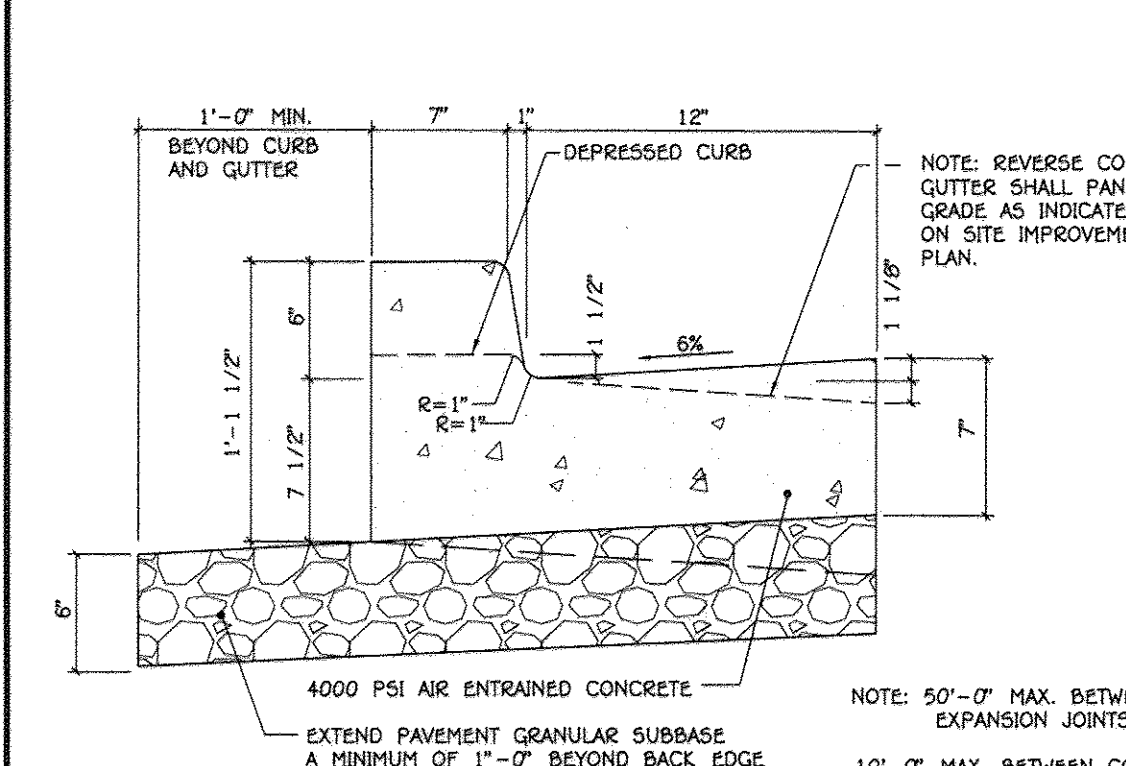


2 HEAVY DUTY ASPHALTIC PAVING DETAIL
 NO SCALE

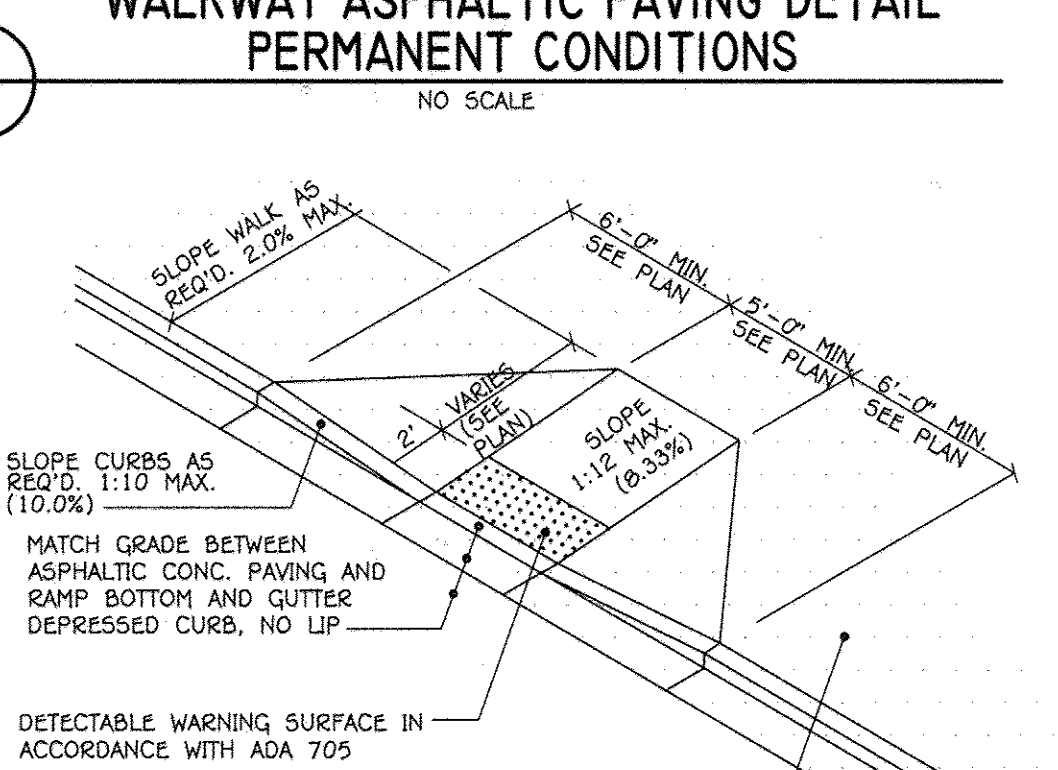


NOTES:
 1. SIDEWALK TO BE SCRIBED IN EQUALLY 5'-0" MAXIMUM SQUARES.
 2. EXPANSION JOINTS ACROSS THE SIDEWALK NOT TO MORE THAN 15' APART.
 3. 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL IN EXPANSION JOINTS TO BE KEPT 1/4" BELOW SURFACE OF SIDEWALK. FILL WITH SEALANT.
 4. 4000 PSI AIR ENTRAINED CONCRETE SHALL BE USED.
 5. WALK SHALL BE 1/4" ABOVE CURB WITH 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL BETWEEN SIDEWALK AND CURB.
 6. ON LONGITUDINAL SIDEWALK GRADES OF 5% OR GREATER, A CONCRETE HEADER 6" THICK AND 6" DEEP BELOW THE NORMAL 4" SIDEWALK THICKNESS SHALL BE CONSTRUCTED FOR THE FULL WIDTH OF THE SIDEWALK AT INTERVALS OF 40 FEET. THE HEADERS SHALL BE PLACED AT EXPANSION JOINT LOCATIONS AND SHALL BE MONOLITHIC WITH THE SIDEWALK.
 7. SIDEWALK WIDTH ADJACENT TO CURB SHALL BE 5'-0" MIN.
 8. PROVIDE 1/2" EXPANSION JOINT WHERE WALKS ABUT EXISTING CONCRETE SURFACES TO REMAIN.

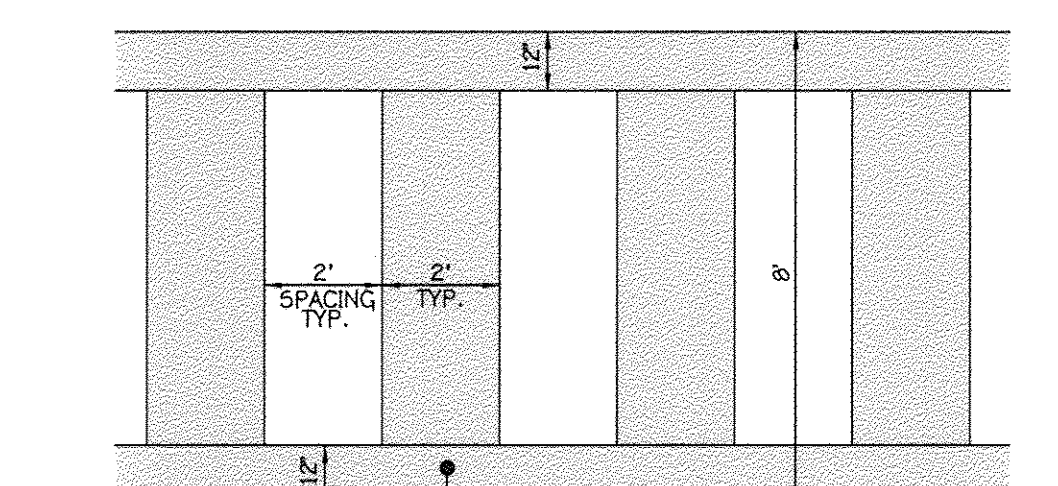
3 CONCRETE SIDEWALK ADJACENT TO CURB DETAIL
 HOWARD COUNTY STANDARD DETAIL R-3.05
 NO SCALE



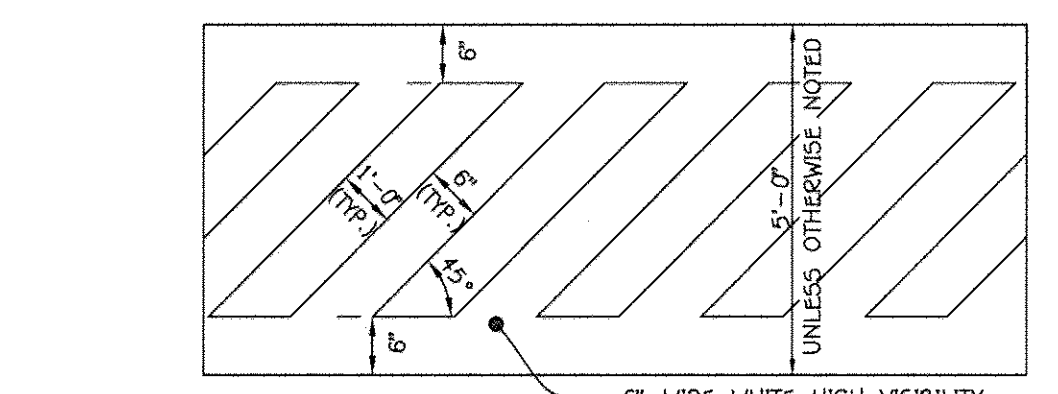
4 STANDARD 6" COMB. CONC. CURB AND GUTTER
 HOWARD COUNTY STANDARD DETAIL R-9.01
 NO SCALE



6 SIDEWALK RAMP DETAIL
 NO SCALE

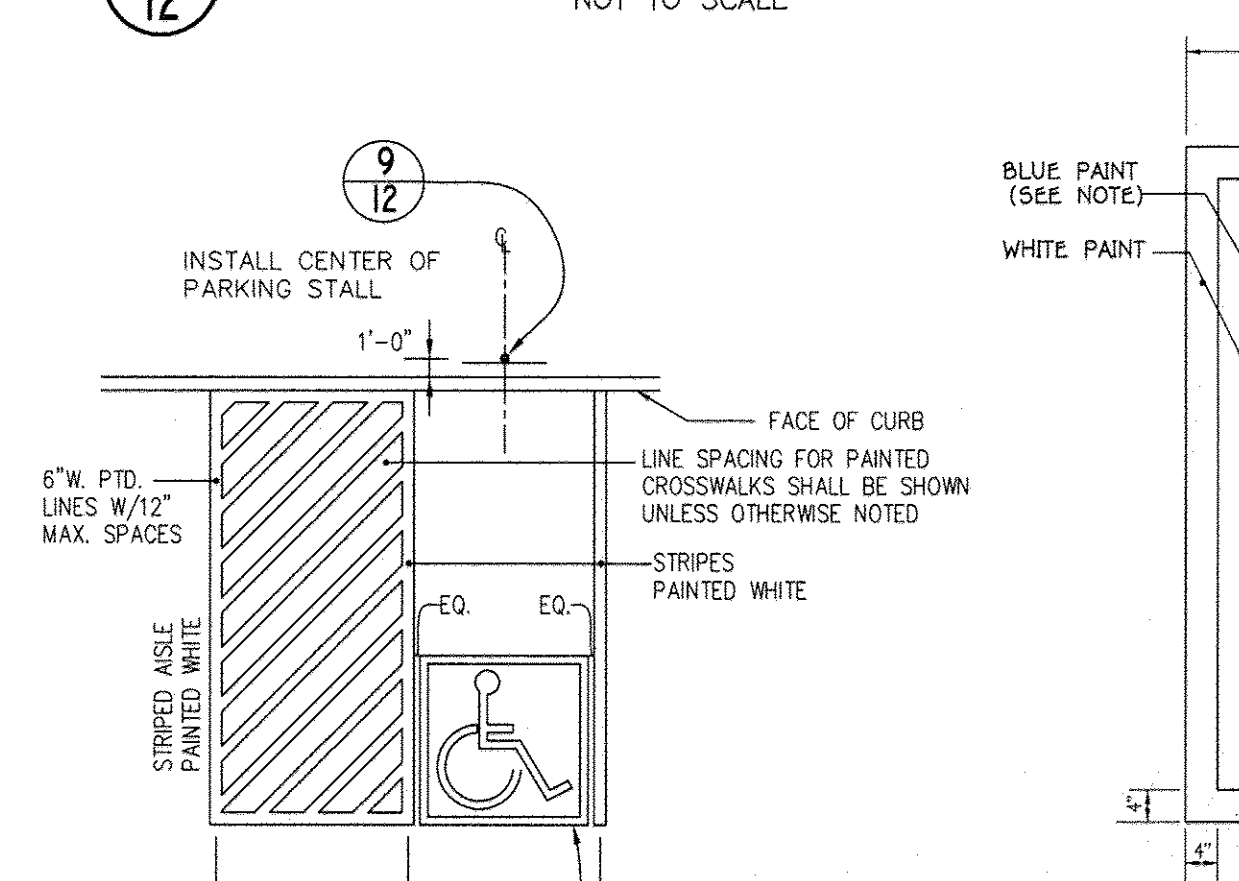


7 PEDESTRIAN CROSSWALK DETAIL
 HOWARD COUNTY STANDARD DETAIL T-7.03
 NO SCALE



8 CROSSWALK DETAIL
 NO SCALE

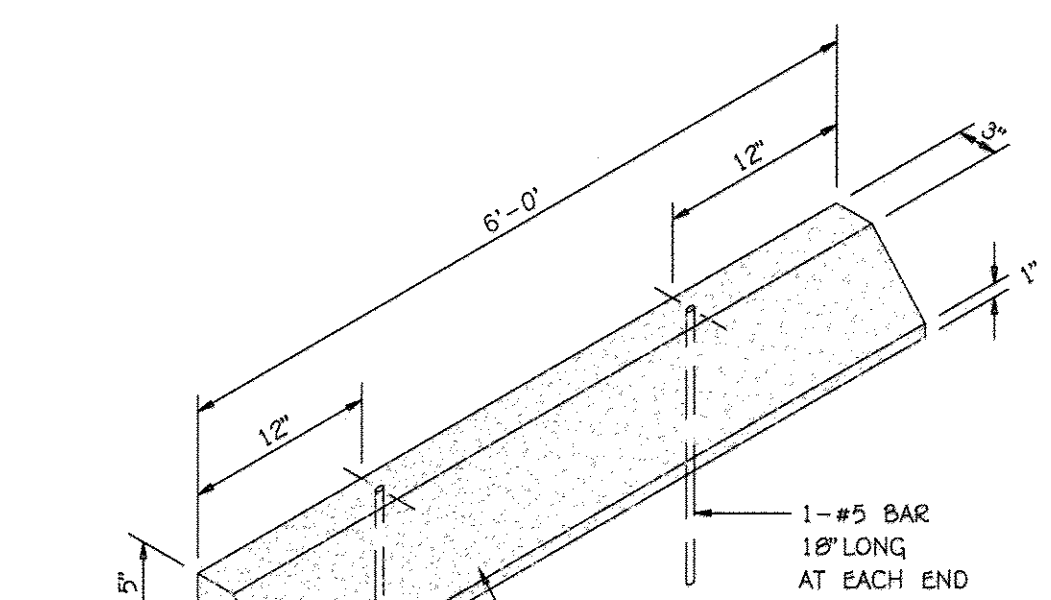
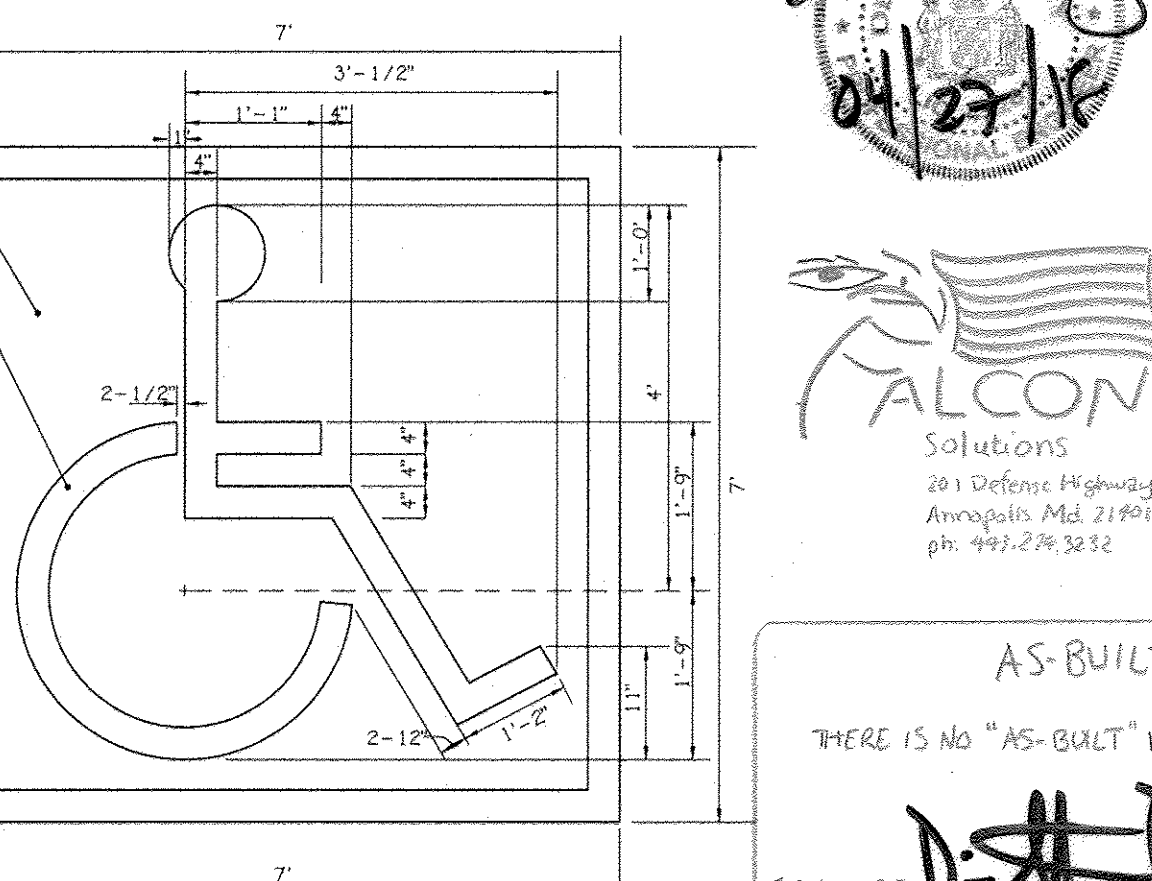
9 HANDICAP PARKING SIGN DETAIL
 NOT TO SCALE



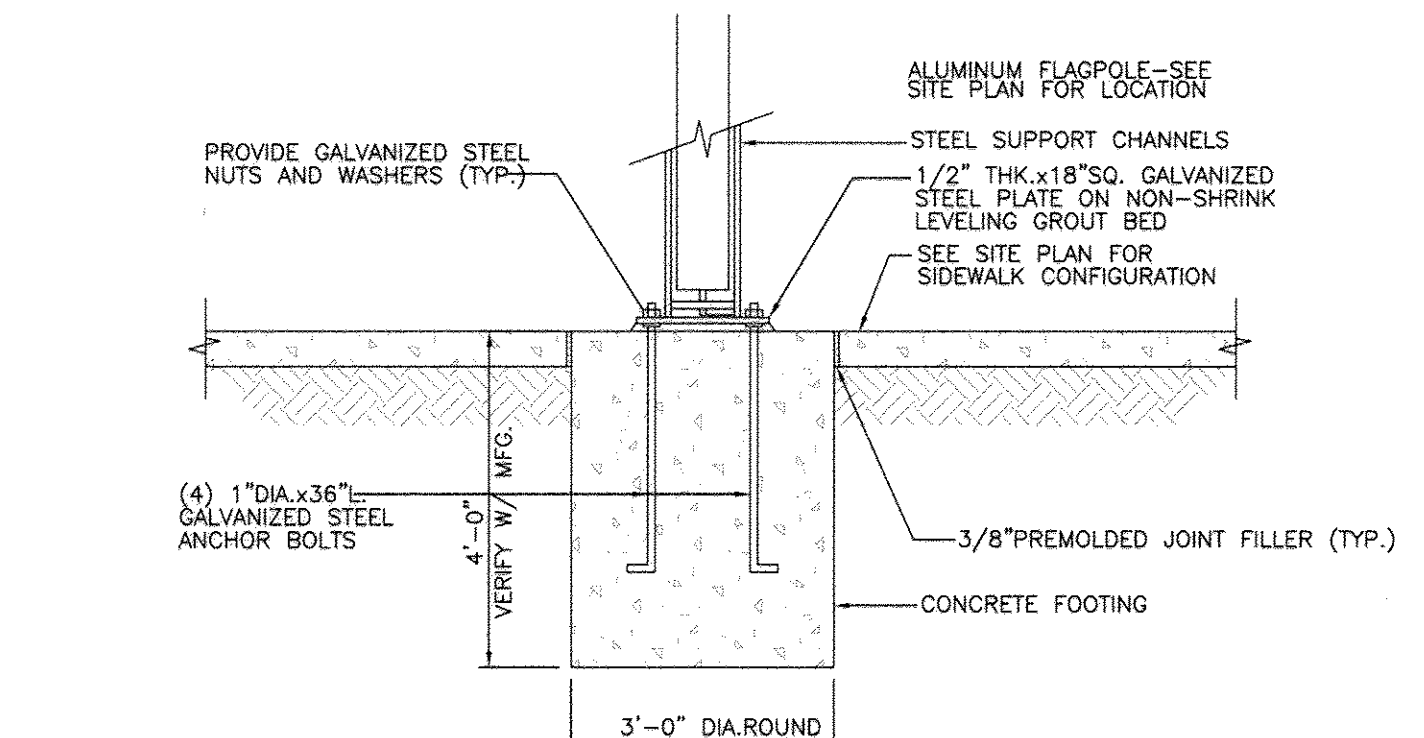
10 ACCESSIBLE SPACE LAYOUT
 NO SCALE



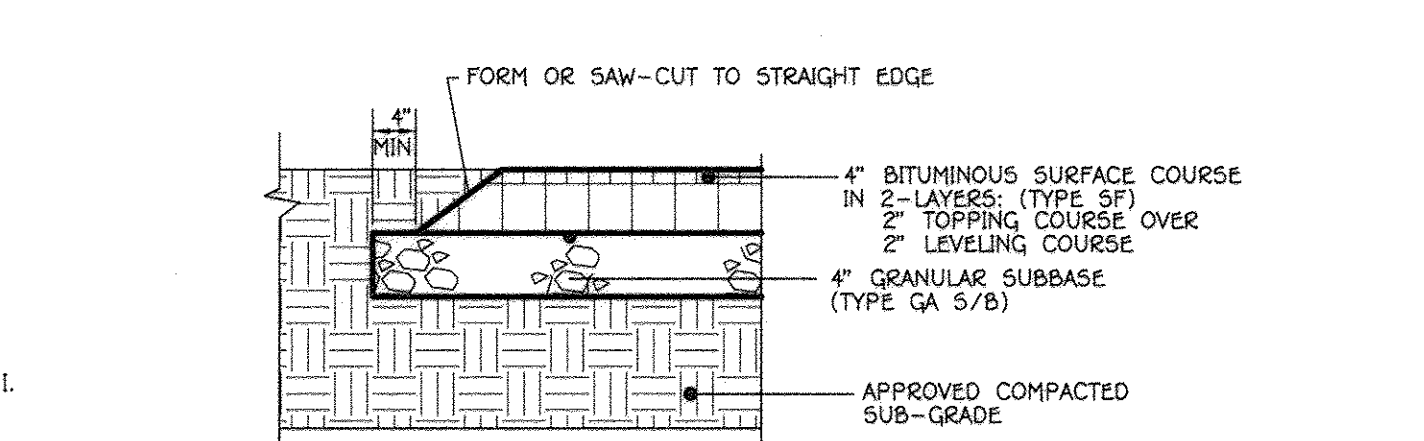
11 HANDICAP SPACE STENCIL LAYOUT
 SCALE: 1" = 20"



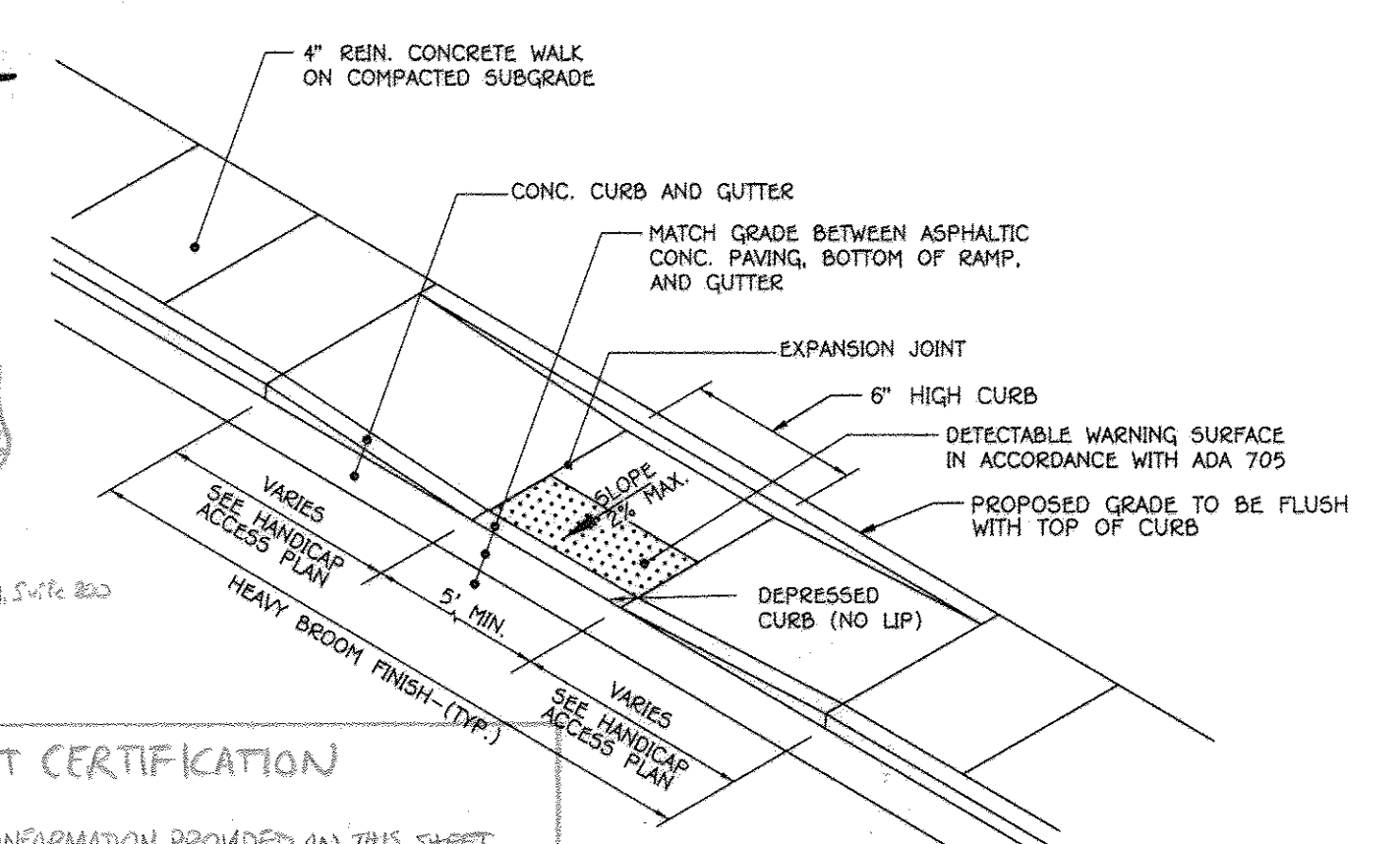
13 WHEEL STOP DETAIL
 NO SCALE



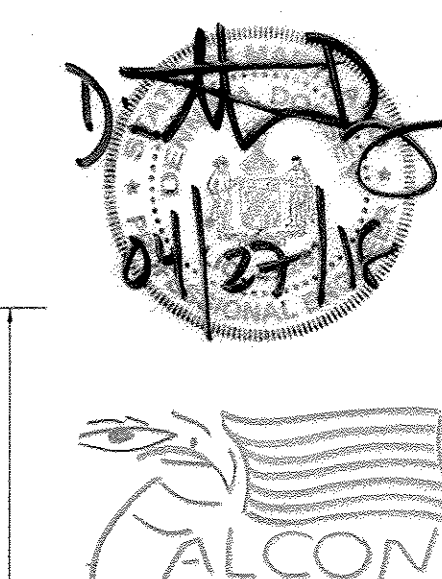
15 TILT FLAGPOLE DETAIL
 NO SCALE



16 WALKWAY ASPHALTIC PAVING DETAIL
 TEMPORARY CONDITIONS
 NO SCALE



17 HANDICAP CURB RAMP DETAIL
 NO SCALE



Solutions
 201 Defense Highway, Suite 200
 Annapolis, Md. 21401
 ph: 443.214.3232

AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE: *D. A. D.*
 NAME: DENNIS A. DUSEY
 MD. LICENSE NO. 45261
 EXP. DATE: 04/10/20

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

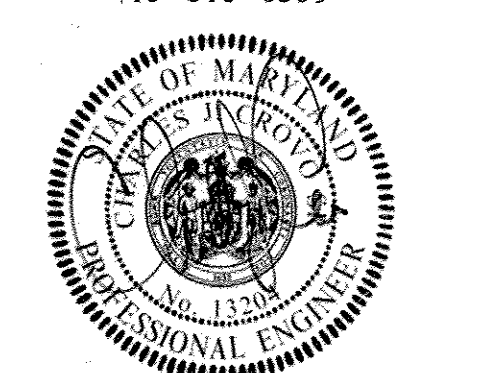
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 451-3200

"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. 13204. Expiration Date: November 3, 2016."

Charles J. Cecovo, Sr.
 CHARLES J. CECOVO, SR., P.E.
 DATE: 12/15

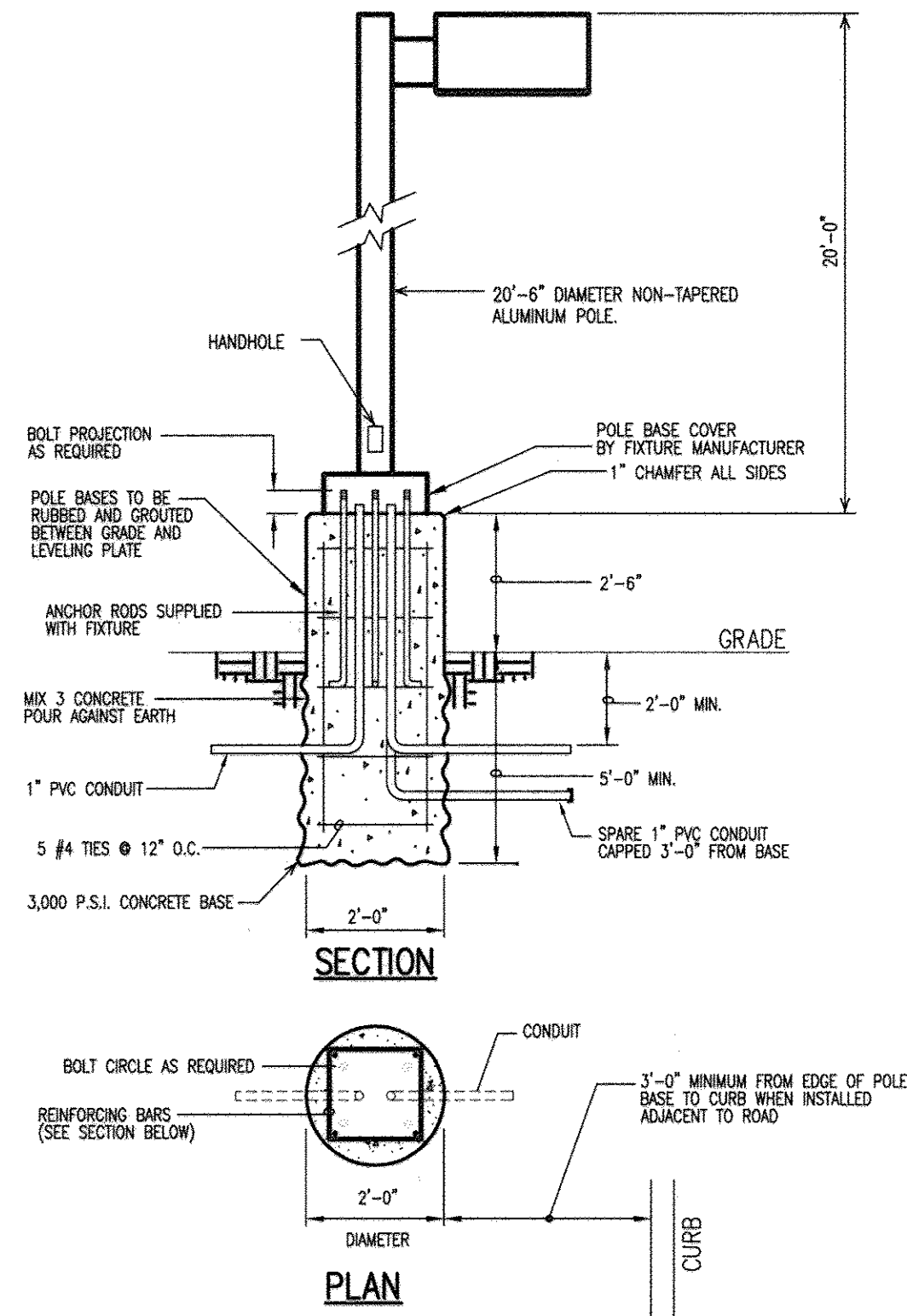
11/21/16	ISSUE SHEET NUMBER
9/11/16	REVISE SHEET NUMBER
DATE	DESCRIPTION
	REVISION BLOCK
<i>William A. Mosher, Jr.</i>	2-11-15
Director - Department of Planning and Zoning	Date
<i>West Steadman</i>	2-11-15
Chief, Division of Land Development	Date
<i>Phil Eshen</i>	2-5-19
Chief, Development Engineering Division	Date

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA
WILDE LAKE MIDDLE SCHOOL	11/1
PLAT NOS.	BLOCK NO.
23161-23163 L15/F.90&91	24,6
WATER CODE	SEWER CODE
E-30	5523900

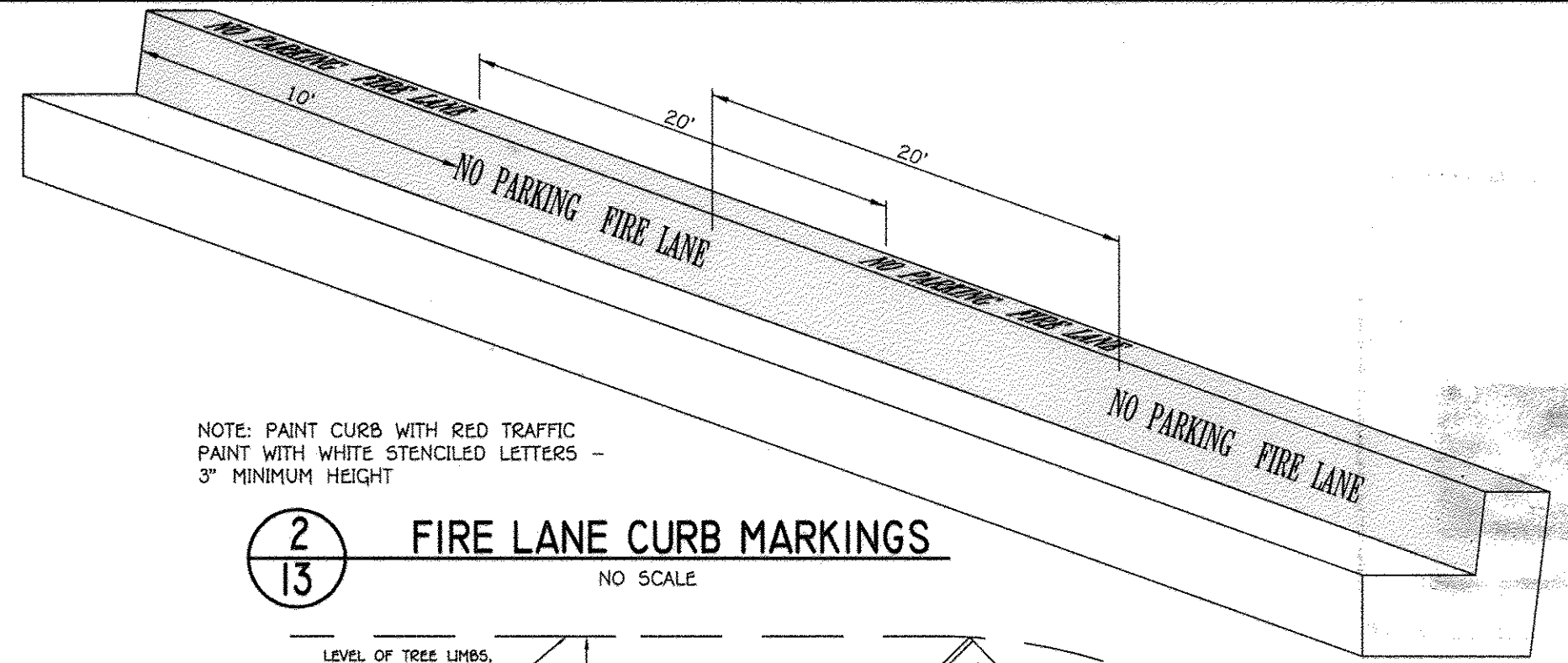
AS-BUILT DETAIL SHEET
 VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
 WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JANUARY 30, 2015
 SHEET 12 OF 54



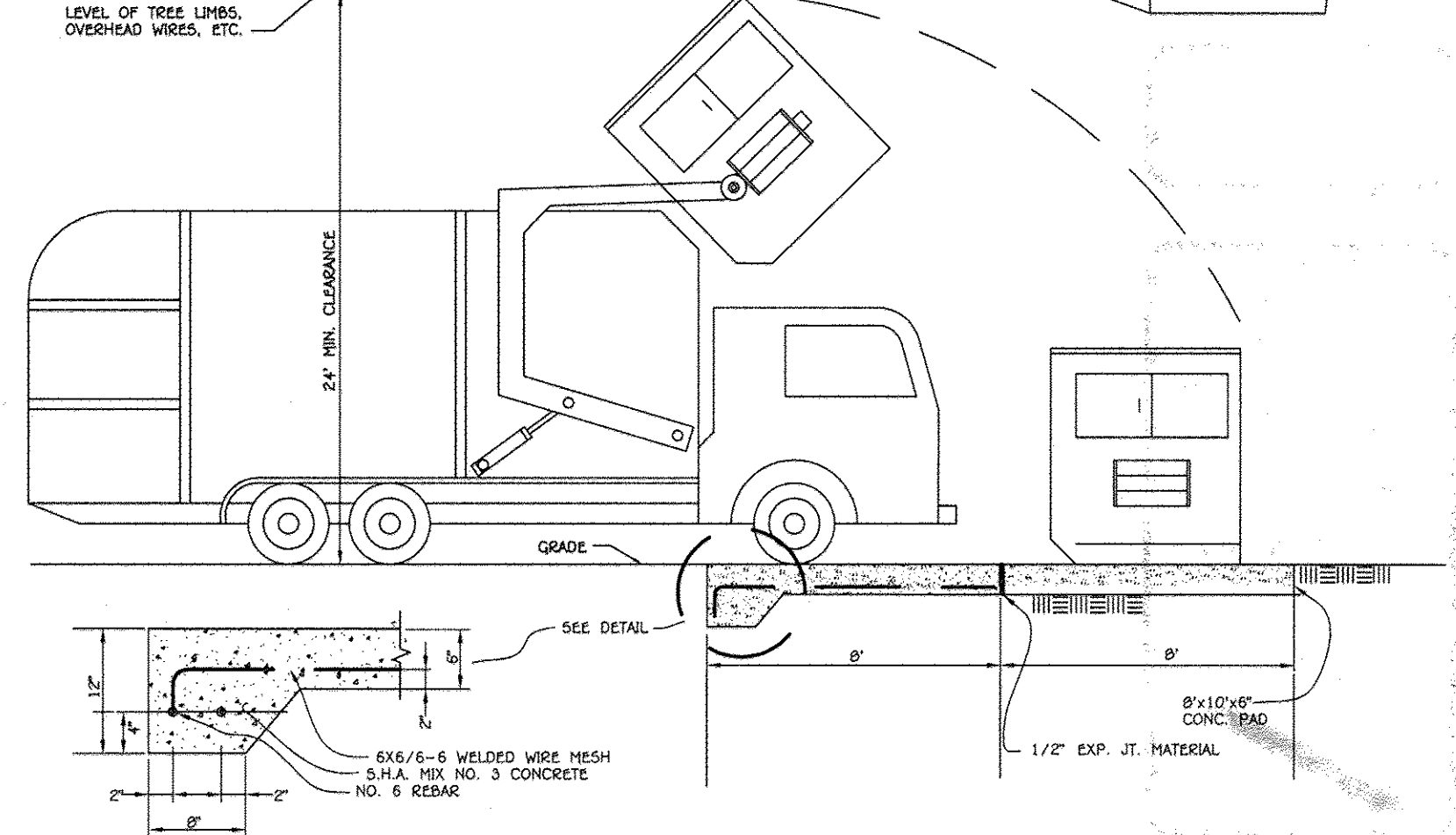
1 LIGHTING FIXTURE
NO SCALE

TYPE	DESCRIPTION	LAMP	MANUFACTURER	CATALOG NO.	VOLT	MOUNTING
AA	POLE-MOUNT HD FIXTURE TYPE IV DISTRIBUTION, ELECTRONIC BALLAST, FULL CUT-OFF.	120W MH	BEACON	VP-S, 22NB-50, 3K, T4, UNV	277	POLE, 20'-0"
AA1	SINGLE UNIT EXTERIOR POLE-MOUNT HD FIXTURE TYPE III DISTRIBUTION, ELECTRONIC BALLAST, FULL CUT-OFF.	120W MH	BEACON	VP-S, 22NB-50, 3K, T3, UNV	277	POLE, 20'-0"

LIGHTING FIXTURE SCHEDULE (FOR LIGHTING LOCATIONS SEE ELECTRICAL PLANS)

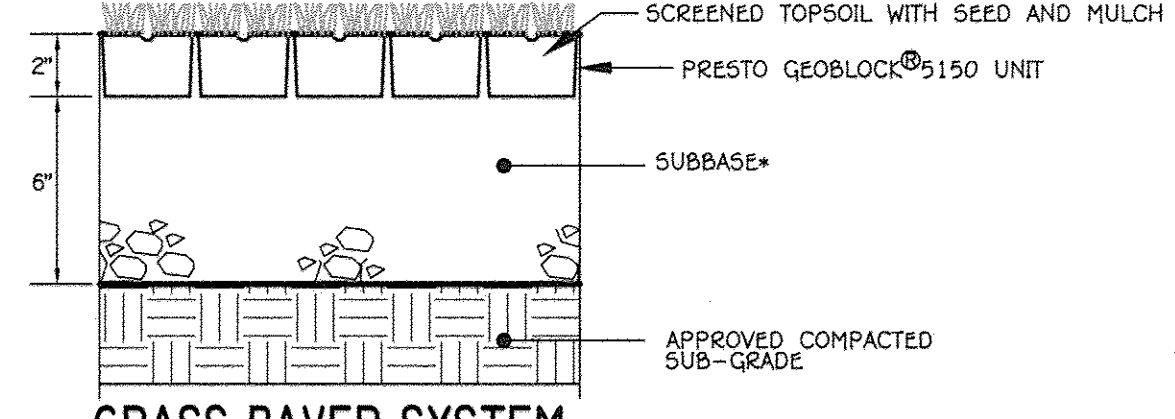


2 FIRE LANE CURB MARKINGS
NO SCALE

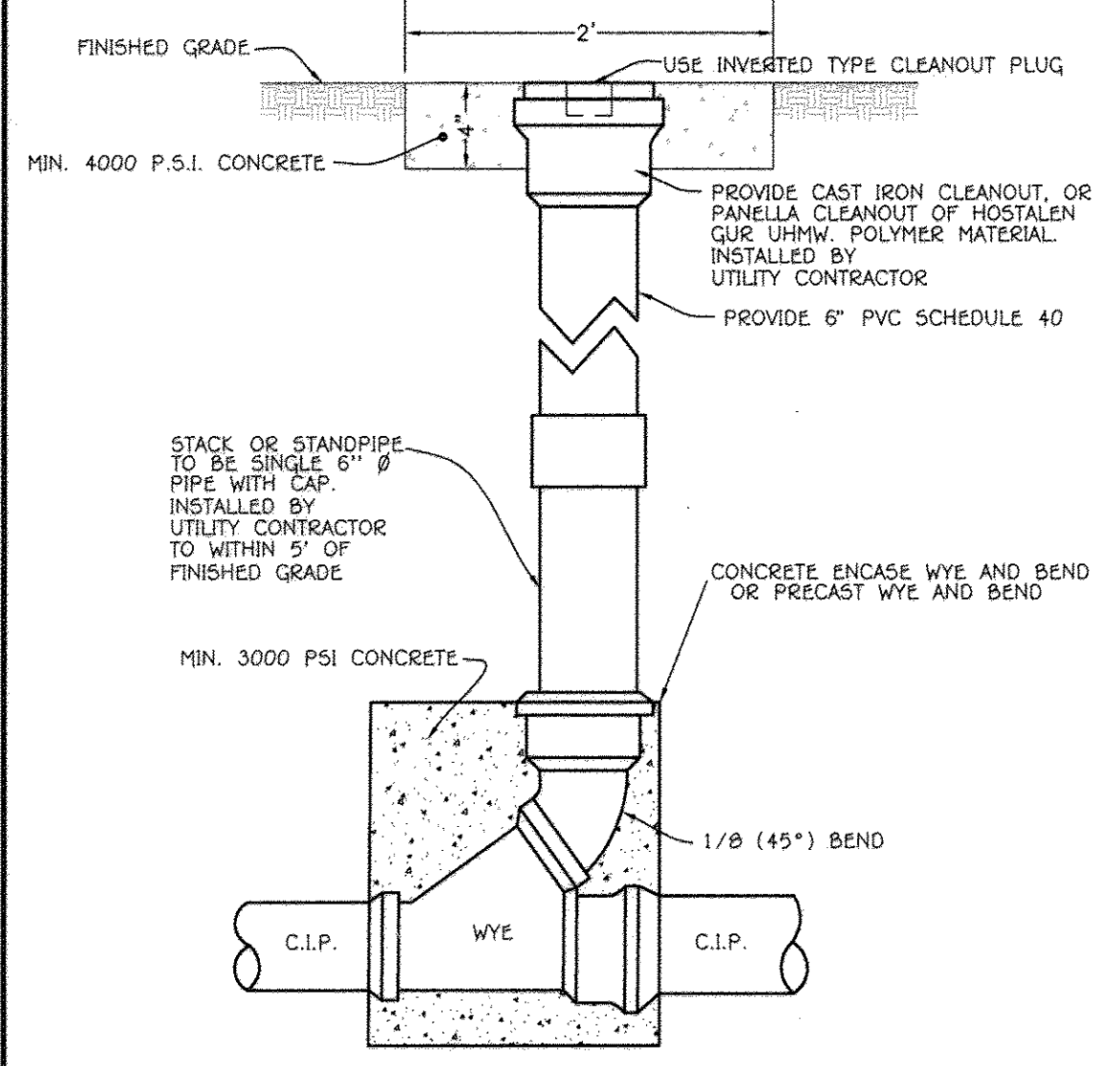


3 SOLID WASTE SERVICE DETAIL
HOWARD COUNTY STANDARD DETAIL R-8.03
NOT TO SCALE

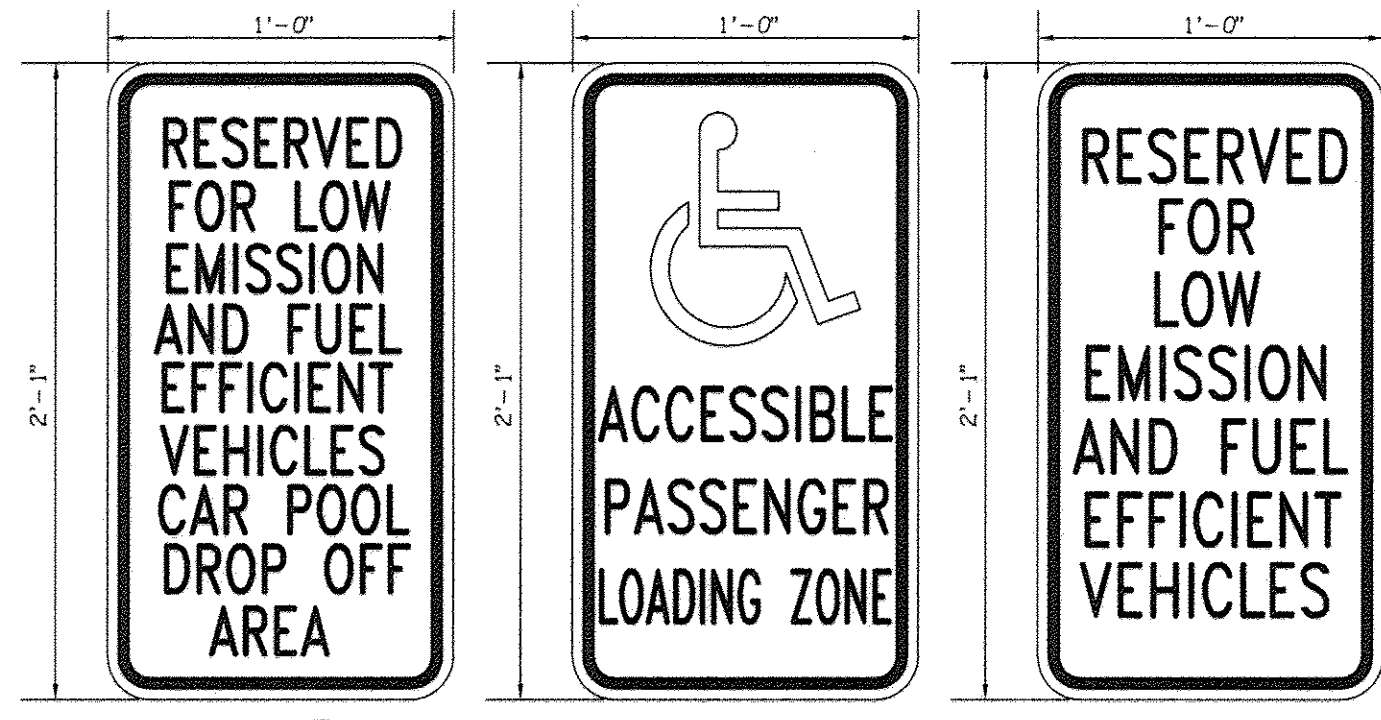
*THE SUBBASE IS A HOMOGENOUS MIXTURE CONSISTING OF 1) A CLEAR-STONE/CRUSHED ROCK HAVING AN AASHTO#5 OR SIMILAR DESIGNATION BLENDED WITH 2) PULVERIZED TOPSOIL AND 3) A VOID COMPONENT GENERALLY CONTAINING AIR AND/OR WATER. THE AGGREGATE PORTION SHALL HAVE A PARTICLE RANGE FROM 9.5 MM TO 25 MM (0.375 TO 1.0 IN) WITH A D50 OF 13 MM (0.5 IN). THE PERCENTAGE VOID-SPACE OF THE AGGREGATE PORTION WHEN COMPACTED SHALL BE AT LEAST 30%. THE PULVERIZED TOPSOIL PORTION SHALL EQUAL 25% OF THE TOTAL VOLUME AND BE ADDED AND BLENDED TO PRODUCE A HOMOGENOUS MIXTURE PRIOR TO PLACEMENT OR WASHED INTO THE IN-PLACE COMPACTED AGGREGATE. ONCE PLACED, THE MIXTURE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.



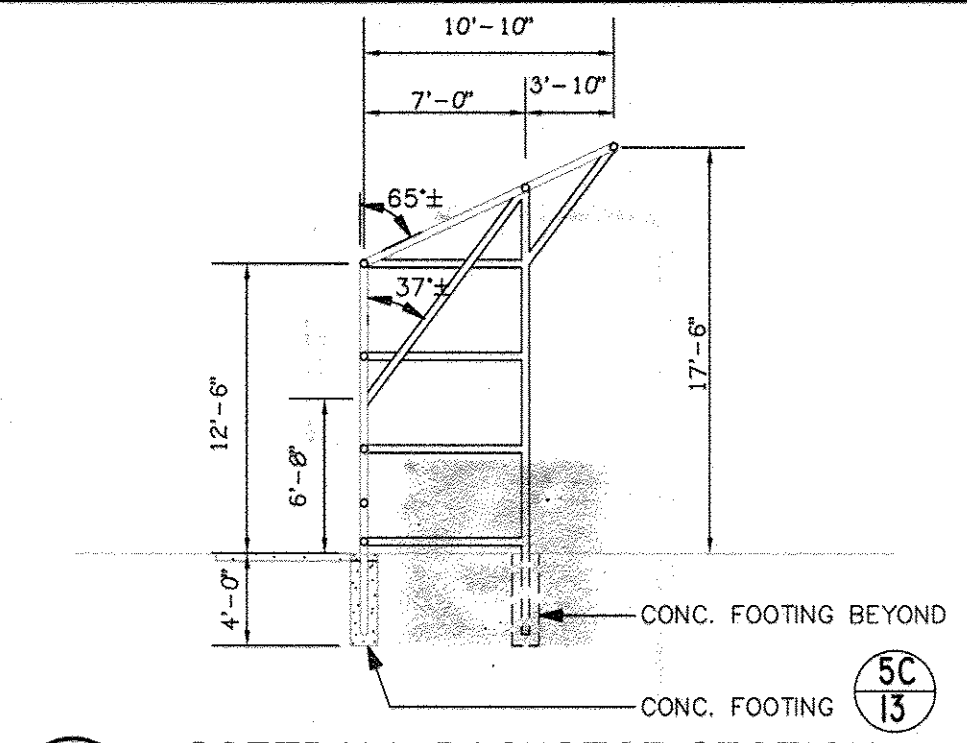
4 GRASS PAVER SYSTEMS - GEOBLOCK® 5150
NO SCALE



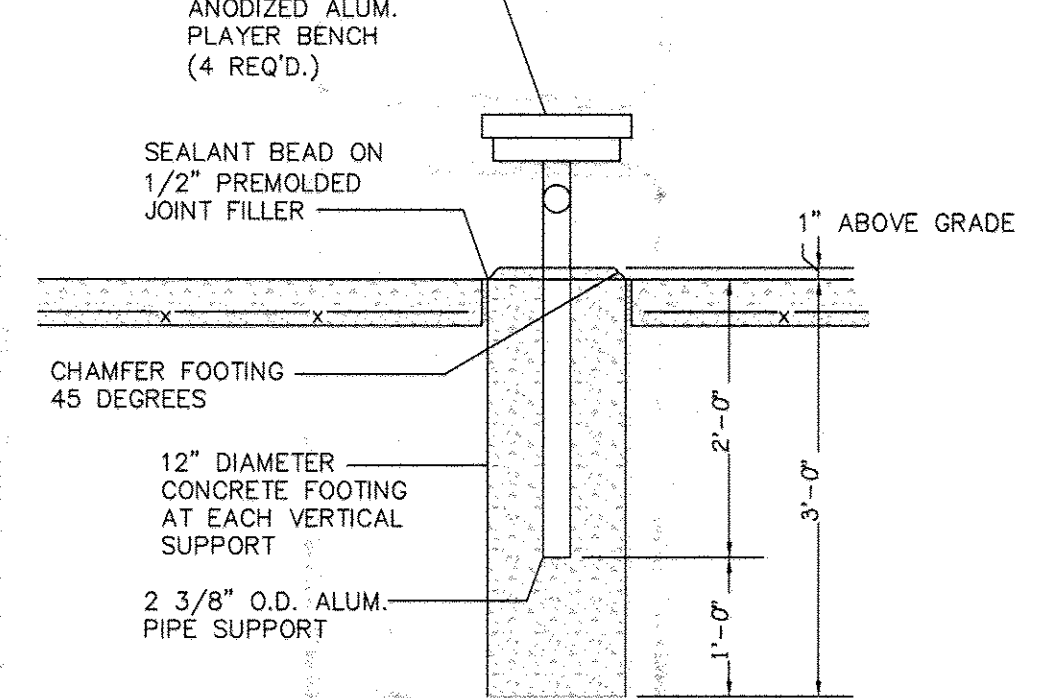
8 TYPICAL CLEAN-OUT
NO SCALE



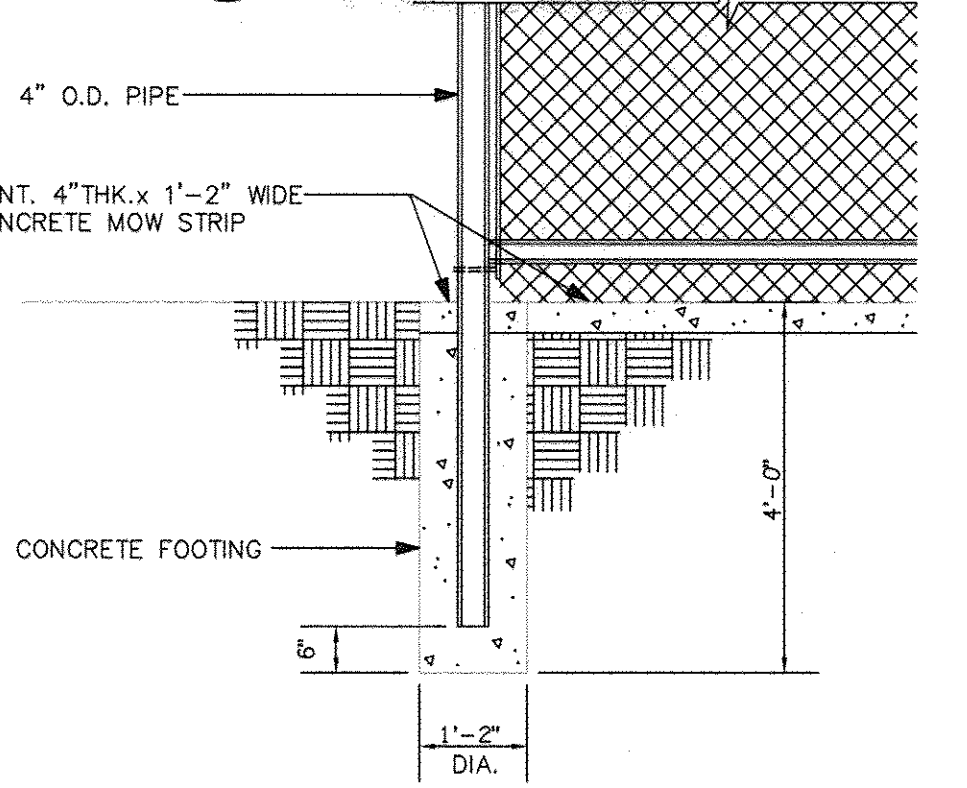
6 SIGN DETAIL
NOT TO SCALE



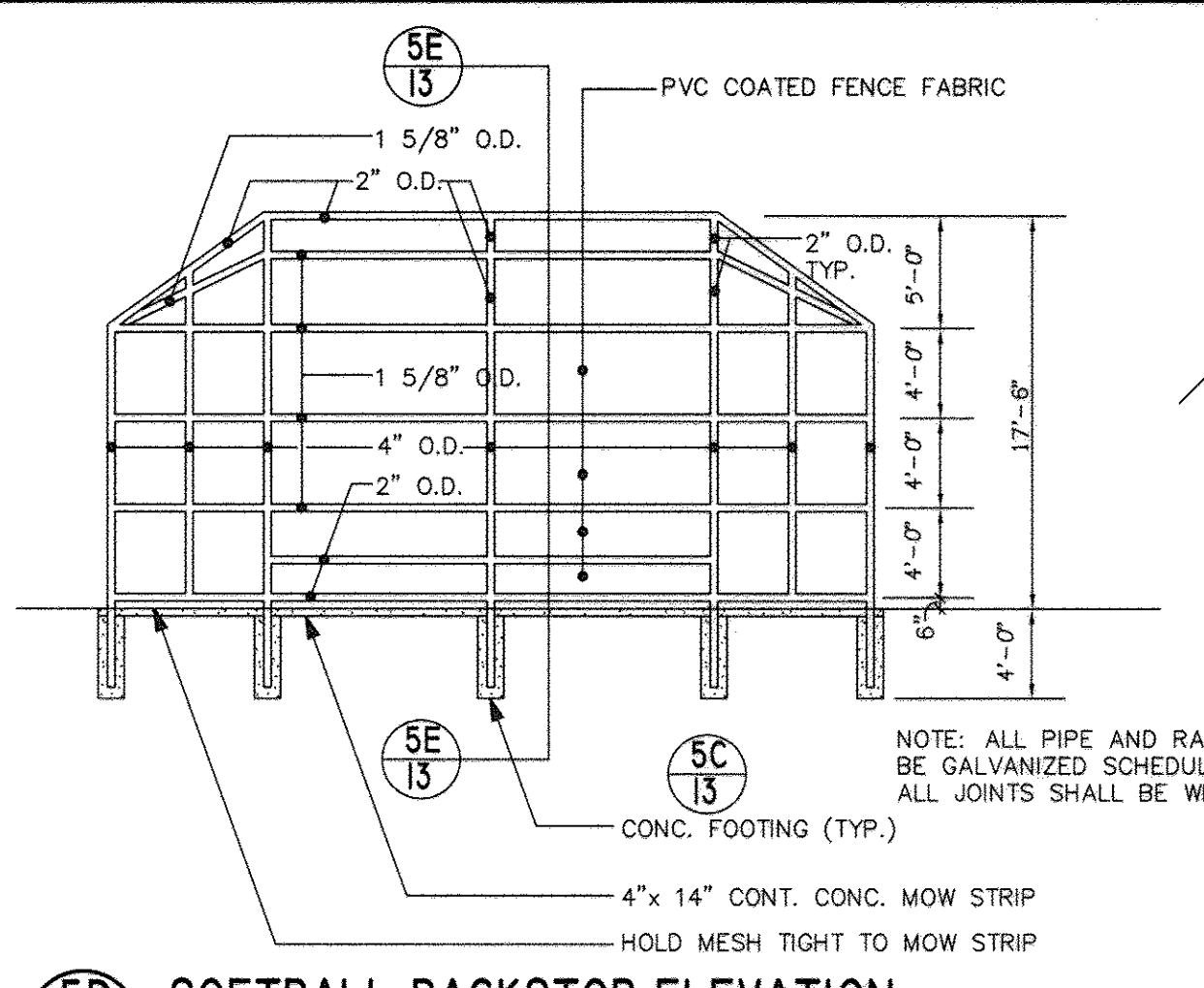
5E SOFTBALL BACKSTOP SECTION
NO SCALE



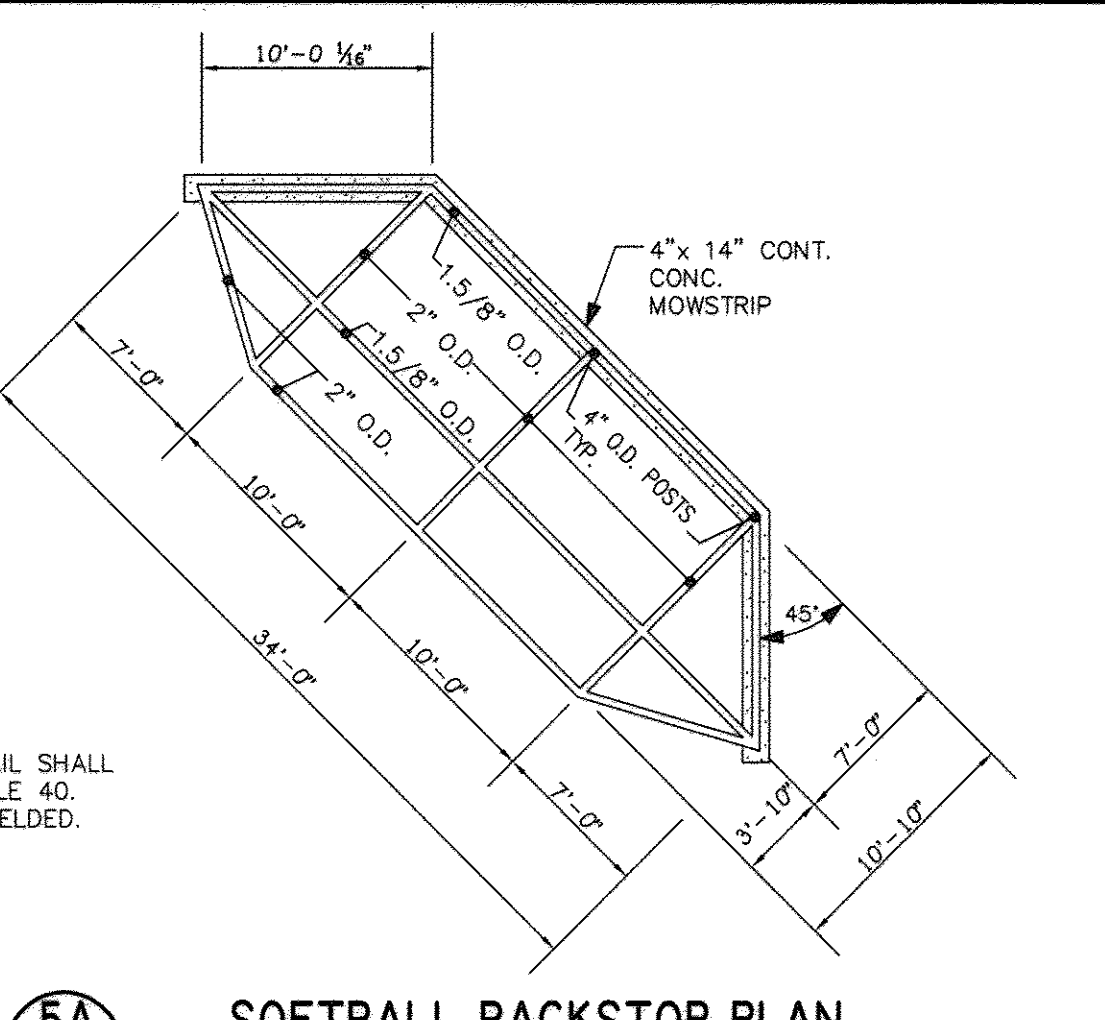
5B BENCH DETAIL
NO SCALE



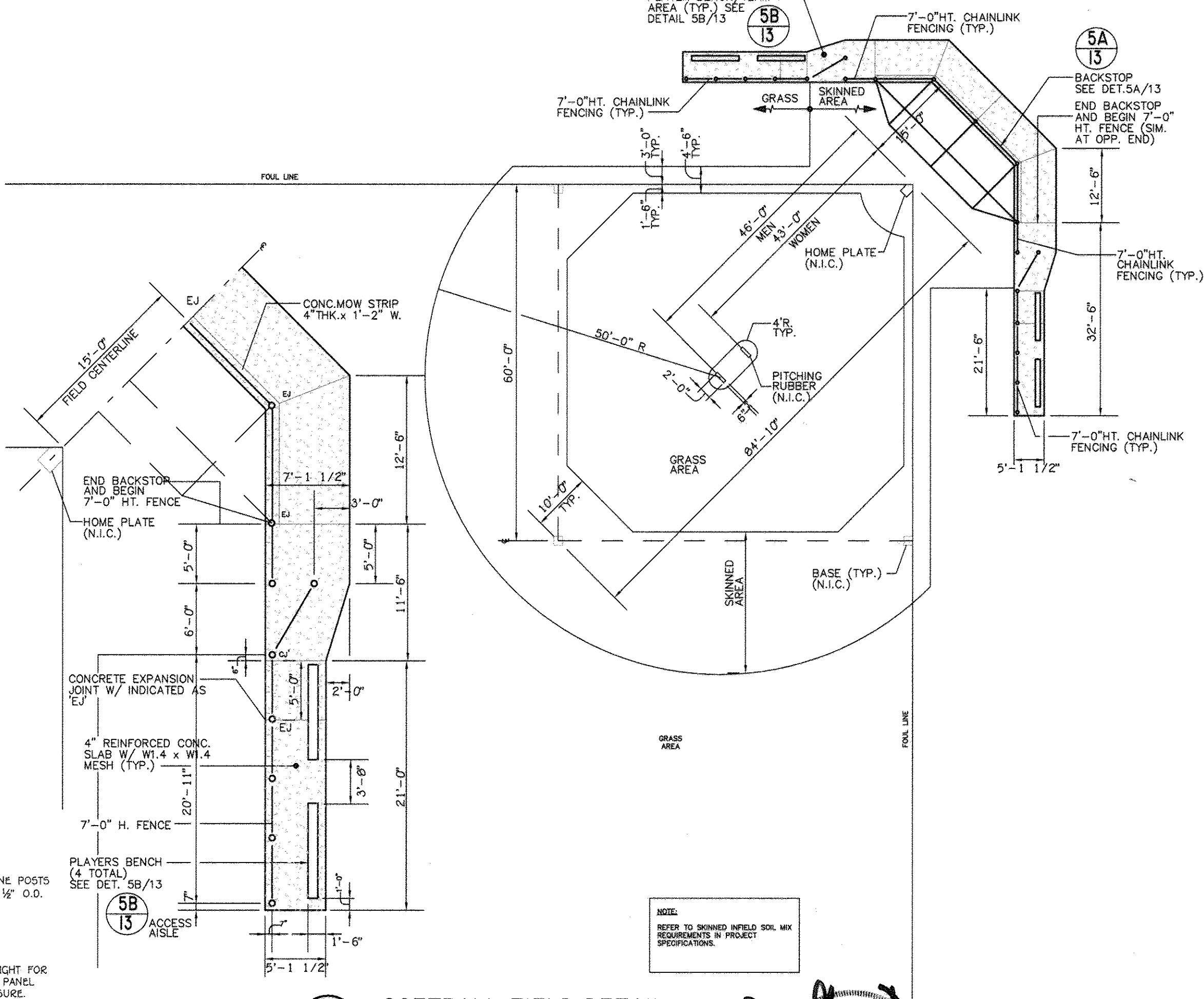
5C BACKSTOP FOOTING DETAIL
NO SCALE



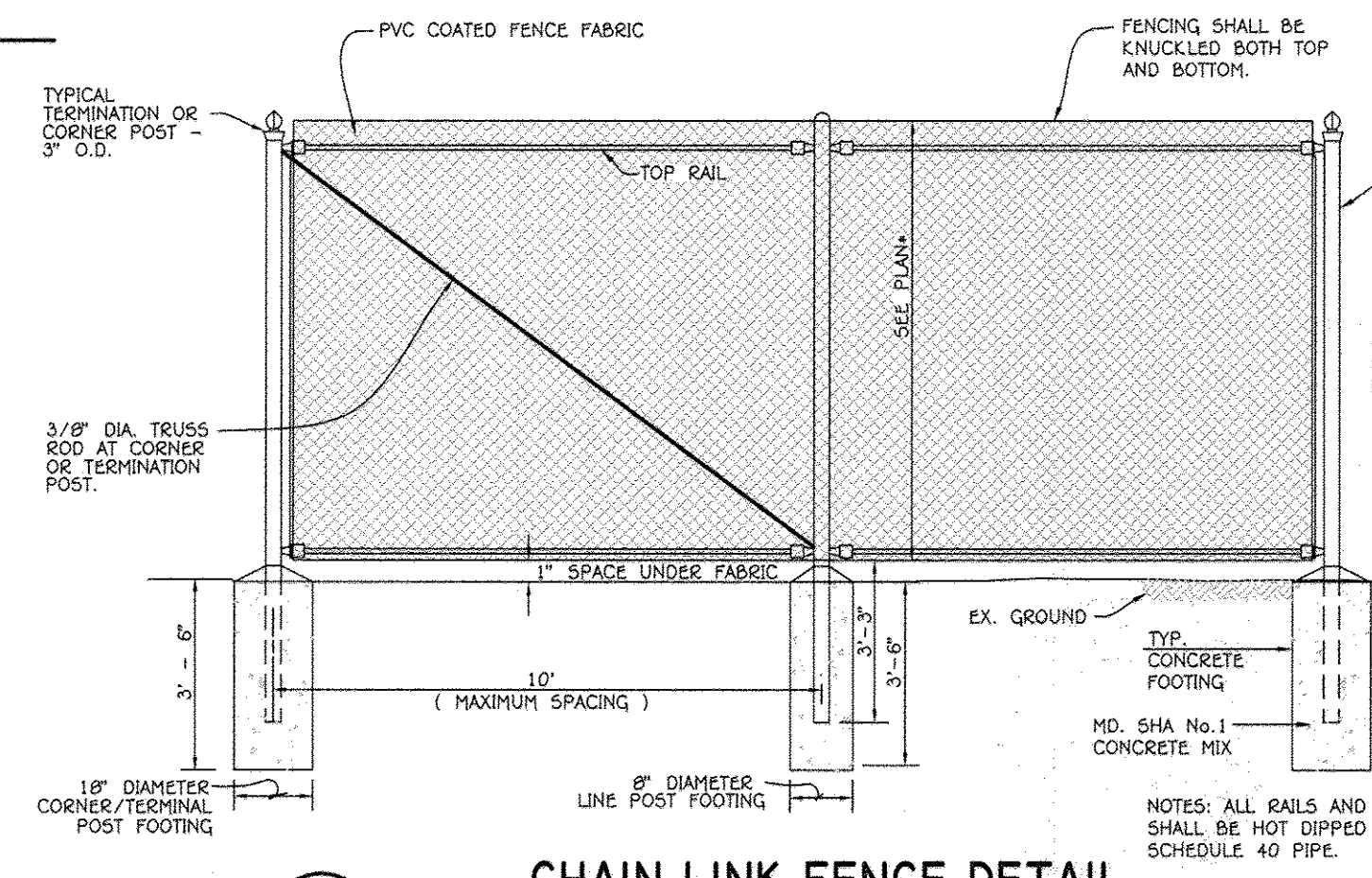
5D SOFTBALL BACKSTOP ELEVATION
NO SCALE



5A SOFTBALL BACKSTOP PLAN
NO SCALE



5 SOFTBALL FIELD DETAIL
NO SCALE



7 CHAIN LINK FENCE DETAIL
HOWARD COUNTY STANDARD DETAIL G-7.21
NO SCALE

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *J. A. Dorsey* DATE: 04/27/16
MR. DENNIS A. DORSEY MD LICENSE NO. 45261
EXP. DATE: 04/10/20

ALCON Solutions
201 DeGeorge Highway, Suite 200
Annapolis, MD 21401
ph: 410.276.1232

[Signature]

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21044
(410) 461-2895

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2016."
[Signature]
CHARLES J. GILROY, SR., P.E. DATE: 1/27/15

DATE	REVISION	DESCRIPTION
11/21/16	REVISE SHEET NUMBER	
2/11/15	REVISE SHEET NUMBER	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director: *[Signature]* DATE: 2-11-15
Chief, Division of Planning and Zoning
Chief, Division of Land Development: *[Signature]* DATE: 2-11-15
Chief, Development Engineering Division: *[Signature]* DATE: 2-5-15

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



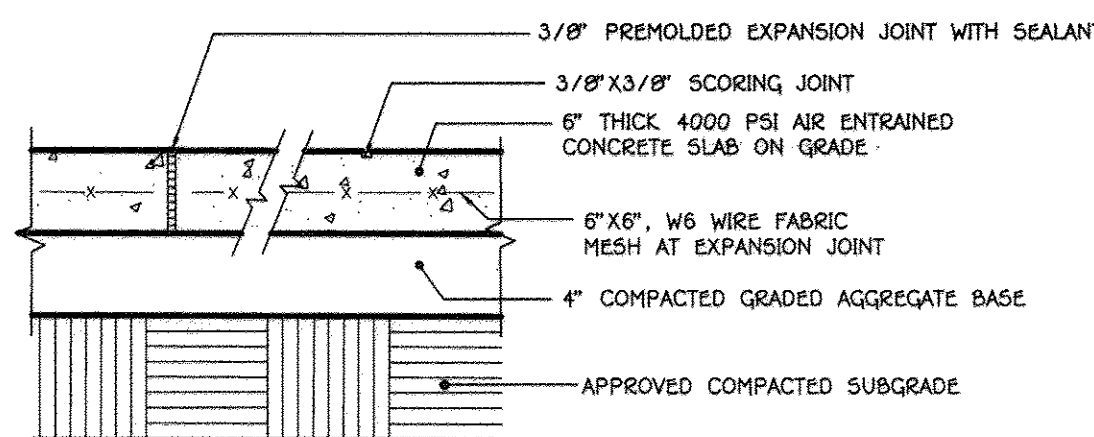
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24,6	NT	29,35	FIFTH	6054

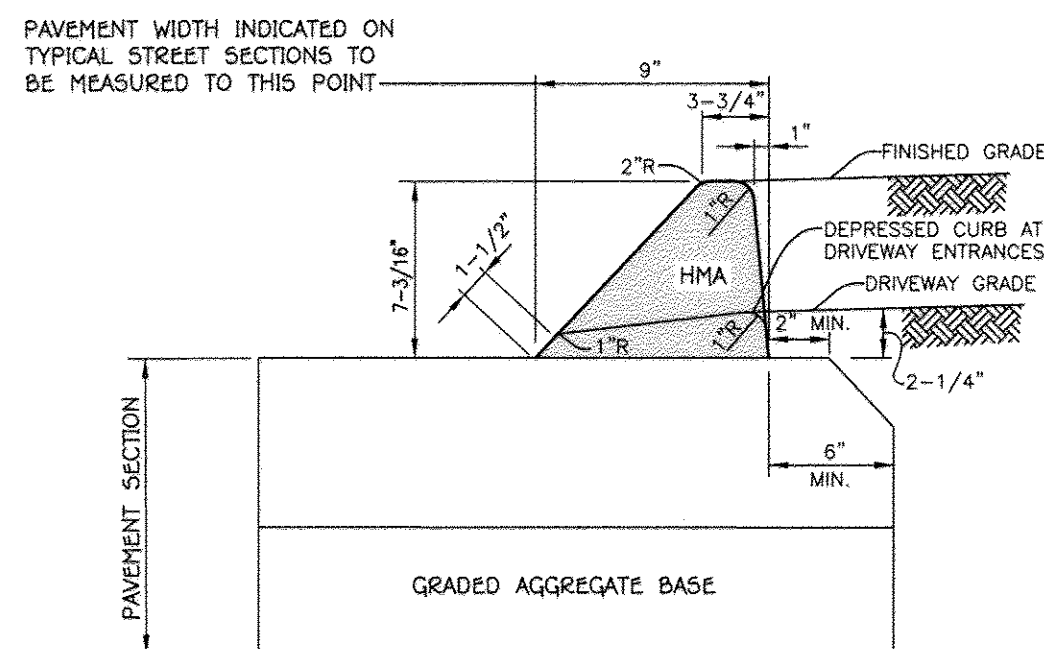
WATER CODE: E-30 SEWER CODE: 5523900

AS-BUILT DETAIL SHEET
VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY 30, 2015
SHEET 13 OF 54

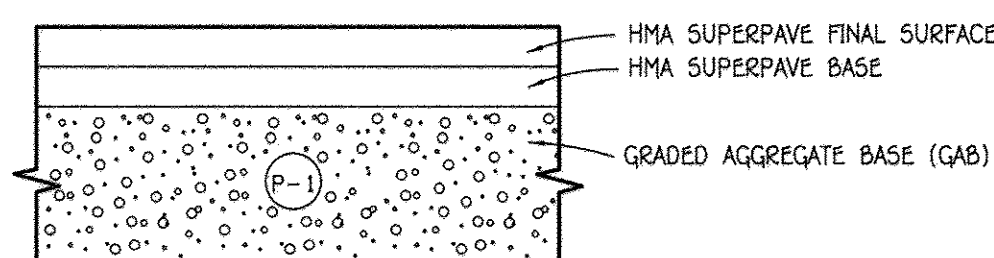


NOTE: INSTALL EXPANSION JOINTS AT MAX. 15'-0" O.C. AND INSTALL SCORING JOINTS AT MAX. 9'-0" O.C.
SLOPE ACROSS SIDEWALK SHALL BE MIN. 1/8" / FT.

1
14 CONCRETE PAVING DETAIL - HEAVY DUTY
NO SCALE

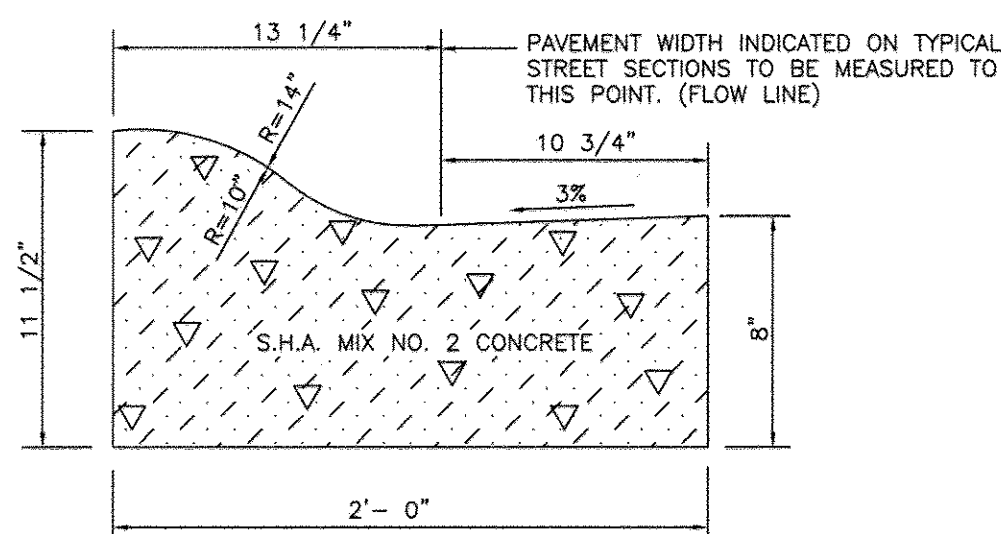


2
14 HOT MIX ASPHALT CURB
NOT TO SCALE

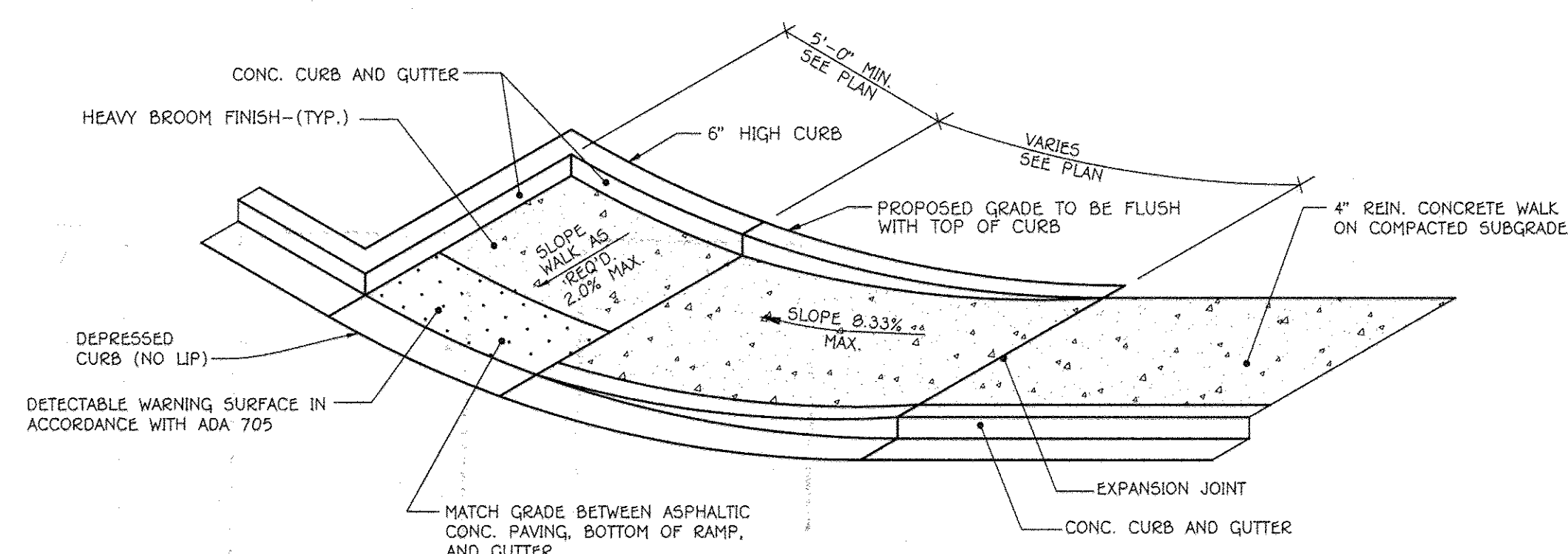


PAVING SECTION NUMBER	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)							
		3 TO >5	5 TO <7	>7	3 TO >5	5 TO <7	>7		
P-1	PARKING BAYS, RESIDENTIAL AND NON-RESIDENTIAL PARKING DRIVE AISLES, RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 2 HEAVY TRUCKS PER DAY	PAVEMENT MATERIAL (INCHES)							
		HMA SUPERPAVE FINAL SURFACE 9.5 MM PG 64-22, LEVEL 1 (ESAL)		1.5	1.5	1.5	1.5	1.5	1.5
		HMA SUPERPAVE FINAL SURFACE 19.0 MM PG 64-22, LEVEL 1 (ESAL)		2.0	2.0	2.0	3.5	3.0	2.5
		9.5 MM PG 64-22, LEVEL 1 (ESAL)		0.5	7.0	5.0	4.0	4.0	4.0

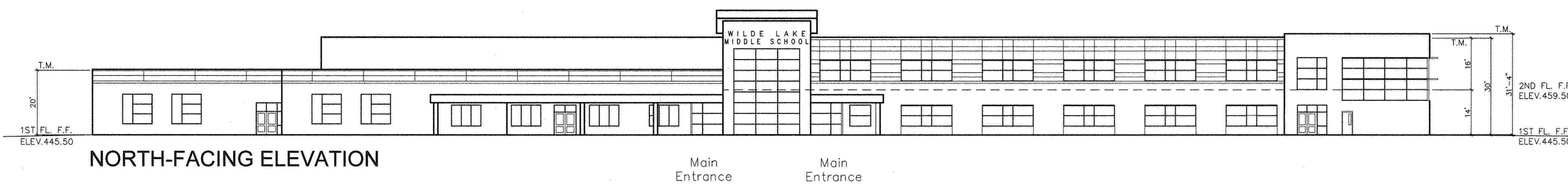
3
14 P-1 PAVING SECTION
NOT TO SCALE



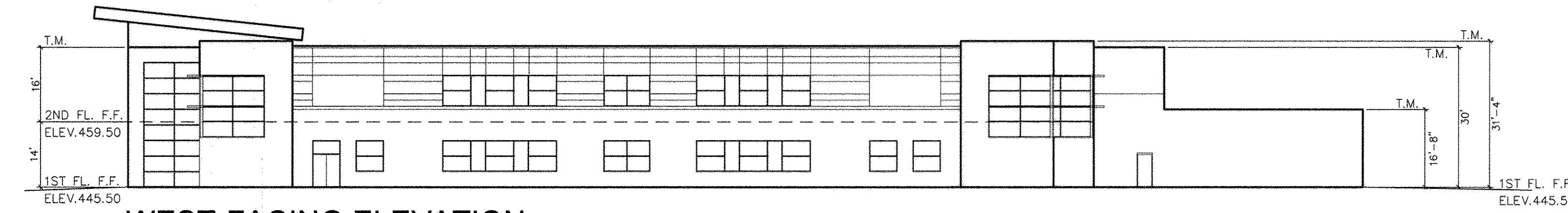
5
14 MODIFIED COMBINATION CURB AND GUTTER
NO SCALE



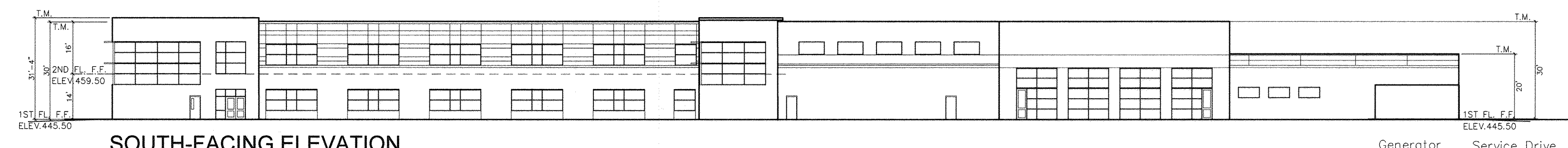
6
14 SIDEWALK RAMP DETAIL
NO SCALE



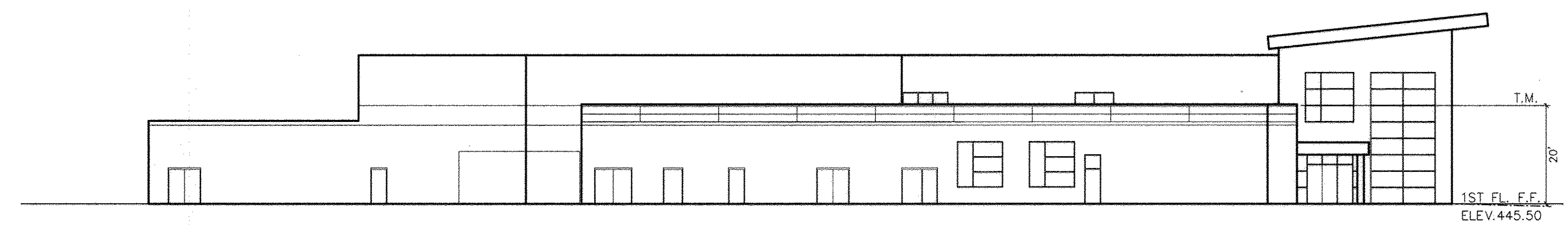
NORTH-FACING ELEVATION



WEST-FACING ELEVATION



SOUTH-FACING ELEVATION



EAST-FACING ELEVATION

BUILDING ELEVATIONS
SCALE: 1" = 20'

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *[Signature]* DATE: 04/27/18
NAME: DEWDIS A. DORSEY MD LICENSE NO. 45261
EXP. DATE: 04/10/20



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10276 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2899

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, expiration Date: November 3, 2016."
[Signature] 1/27/15
CHARLES J. GROVO, SR., P.E. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 2-11-15
Director - Department of Planning and Zoning
[Signature] 2-11-15
Chief, Division of Land Development
[Signature] 2-5-15
Chief, Development Engineering Division

PREPARED FOR
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HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
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Attention: SCOTT WASHINGTON
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Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA
WILDE LAKE MIDDLE SCHOOL	11/1
PLAT NOS.	BLOCK NO.
23161-23163 L15/F.90&91	24,6
WATER CODE	SEWER CODE
E-30	5523900

BUILDING ELEVATIONS & DETAILS
As-Built VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY 30, 2015
SHEET 14 OF 54

B-4.3 STANDARDS AND SPECIFICATIONS

FOR SEEDING AND MULCHING
Definition
The application of seed and mulch to establish vegetative cover.
Purpose
To protect disturbed soils from erosion during and at the end of construction.
Conditions Where Practice Applies
To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

- A. Seeding
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.
b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.
c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.
d. Sod or seed mat must be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.

- 2. Application
a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.
i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.
ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact.
b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
i. Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P2O5 (phosphorus), 200 pounds per acre; K2O (potassium), 200 pounds per acre.
ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
iii. Mix seed and fertilizer on site and seed immediately without interruption.
iv. When hydroseeding do not incorporate seed into the soil.

- B. Mulching
1. Match Materials (in order of preference)
a. Straw consisting of thoroughly threshed wheat, eye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where no species of grass is desired.
b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
i. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
ii. WCFM, including dye, must contain no germination or growth inhibiting factors.
iii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water and agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and retention properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
iv. WCFM material must not contain elements or compounds at concentration levels that will be phytotoxic.
v. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

- 2. Application
a. Apply mulch to all seeded areas immediately after seeding.
b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch spreading tool, increase the application rate to 2.5 tons per acre.
c. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 30 pounds of wood cellulose fiber per 100 gallons of water.
3. Anchoring
a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard:
i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.
ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
iii. Synthetic binders such as Acrylic Di-R (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited.
iv. Lightweight plastic netting may be stretched over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 feet long.

B-4.8 STANDARDS AND SPECIFICATIONS

FOR STOCKPILE AREA
Definition
A mound or pile of soil protected by appropriately designed erosion and sediment control measures.
Purpose
To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.
Conditions Where Practice Applies
Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

- Criteria
1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
3. Runoff from the stockpile area must drain to a suitable sediment control practice.
4. Access the stockpile area from the upgrade side.
5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
7. Stockpiles must be stabilized in accordance with the 3:7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

Maintenance
The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

B-4.1 SEDIMENT BASIN CONSTRUCTION SPECIFICATIONS

- 1. Install sediment control practices necessary to construct basin. Clear and grub to remove trees, vegetation, roots or other objectionable material from the areas where the embankment is to be placed. Do not clear the pool area until completion of the embankment, unless the pool area is to be used for borrow. Salvage topsoil for later use.
2. Excavate cut-off trench along centerline of proposed embankment a minimum depth of 4 feet and a bottom (min. 4 feet) wide enough to permit operation of excavation and compaction equipment. Construct side slopes 1:1 or flatter. Cut-off trench must be continuous and extend the entire length of embankment. Compaction requirements are the same as those for the embankment. Dewater the trench during the backfilling compaction operations, using an approved practice.
3. Construct embankment of clean soil free of rocks, woody vegetation, oversized stones, roots, or other objectionable material. Fill material for impervious core and cut-off trench must conform to Unified Soil Classification GC, SC, CH, or CL and must have at least 30 percent passing the #200 sieve. Use fill material containing sufficient moisture so that the soil can be formed by hand into a ball without crumbling. If water can be squeezed out of the ball, it is too wet for proper compaction. Place fill material in six-inch to eight inch thick continuous lifts over the entire length of the fill. Obtain compaction by passing construction equipment or compactor over the fill, so that the entire surface of each layer of fill is traversed at least four times. Construct the embankment to an elevation a minimum of 10 percent higher than the design height to allow for settlement.
4. Install principal spillway prior to, or concurrently with, fill placement. Do not excavate embankment for placement of spillway. All pipe connections, including anti-seep collars must be completely watertight. Install filter diaphragm when specified on plan. Barrel connection to riser must be welded all around when the pipe and riser are metal. Attach barrel stub to riser at the same percent (slope) of grade as the barrel. For concrete riser/barrel assembly, pour riser with barrel in place or set pre-cast riser and install projection collar for watertight connection. Place fill material around the pipe spillway in four (4) inch lifts and hand compact around the pipe to a depth of 1.5 times the pipe diameter (minimum). Securely install anti-vortex device and trash rack as shown on plan.
5. Install the emergency spillway in undisturbed natural ground. Construct spillway within a tolerance of +/- 0.2 feet.
6. Stabilize embankment and associated disturbed areas within three (3) days of completion with seed and mulch. Monitor embankment and maintain erosion free during the life of the basin.
7. Install fencing and signage in accordance with the approved plan.
8. Remove sediment when accumulated material has reached 25 percent of the total storage depth. Restore basin to original design volume. Place removed sediments in a controlled area and stabilize. Do not deposit sediment downstream of the embankment, adjacent to a stream or floodplain.
9. When the contributing drainage area is stable, the basin can be removed in accordance with the approved sediment control plan.
10. A sediment basin designed, built, and certified as a stormwater management structure, may be converted when the contributing drainage area is stable. Properly dewater basin, modify outlet structure, perform additional grading, and provide required storage volume in accordance with approved stormwater management plans.

- 11. Embankment Elevations of the top of earth fill at constructed and settled height of the embankment must be shown on the profile. The top of the dam embankment is to be level. The top width must be a minimum of 8 feet for embankments up to 10 feet in height.
Maintenance
A sediment basin is required where sediment trap drainage areas are exceeded. Stormwater management ponds may be used as sediment basins provided they meet the requirements of this section and that the construction sequence addresses converting the sediment basin to the permanent stormwater management pond.
Conditions Where Practice Applies
This standard applies to the installation of temporary sediment basins on sites where:
1. Failure of the structure would not result in loss of life, damage to homes or buildings, or interruption of use or service of public roads or utilities;
2. The drainage area does not exceed 100 acres;
3. The maximum embankment height does not exceed 15 feet measured from the natural ground to the embankment top along the centerline of embankment; and
4. The basin is to be removed within 36 months after the beginning of construction of the basin.
Where any of these criteria cannot be met, the structure must be designed in accordance with Environmental Article, Title 5, Subtitle 5, Annotated Code of Maryland or Natural Resource Conservation Service (NRCS) Maryland Conservation Practice Standard Code No. 378 for Ponds.
Design Criteria
1. Local Requirements: In addition to the requirements herein, the design and construction must comply with local laws, ordinances, rules and regulations.
2. Stormwater Management: Where a sediment basin is to be used as a permanent pond, the total volume must be equal to or exceed the capacity requirements for the permanent pond or provisions must be made for additional grading when the facility is converted to a permanent structure.
3. Location: Locate the basin to obtain the maximum storage benefit from the terrain and for ease of cleanout. The basin should be located to avoid conflicts with utilities and construction activities. Where possible, locate so that storm drains may overflow or be diverted into the basin. Do not locate basin any closer than 20 feet from an existing building foundation. Basins should not be located in areas where the groundwater elevation is higher than the bottom of the basin. Basins in structural fill areas (e.g., proposed roadways and building foundations) are discouraged.
4. Storage Volume: Provide at least 3600 cubic feet of storage for each acre of drainage. The volume is measured from the bottom of the basin to the elevation of the principal spillway crest and is to be divided equally into "dry" storage (1800 ft³/acre) and "wet" storage (1800 ft³/acre). The dry storage will drain down to the wet pool elevation. The 3600 cubic feet of storage is approximately equal to 1 inch of runoff per acre of drainage area.
5. Clean Out: The clean out elevation is one-half the wet storage depth. Determine and state the elevation corresponding to the maximum allowable sediment level in the design data on the plans as a distance below the top of the riser.
6. Surface Area: The ratio of surface area (acres) to discharge (cubic feet/second) must be greater than or equal to 0.0035. The surface area is measured at the design high water elevation for the 10-year frequency storm.
7. Inflow:
a. Establish points of concentrated inflow and specify the type of inflow protection. See Section D - Erosion Control.
b. Locate inflow points to maximize the flow distance to the outlet. Length to width ratio must be 2:1 or greater, where length is the distance between the inlet and outlet. Where a 2:1 effective length to width ratio between inflow and outflow cannot be obtained, baffles are required. See Detail G-2-4 Baffle Boards.
c. Provide dikes/benches where necessary to ensure that runoff is directed to the protected inflow points of the basin. The top elevation of any dike or berm directing water to a sediment basin must be equal to, or higher than, the elevation of the basin embankment.
d. Specify in the sequence of construction that the basin must be constructed prior to the water conveyances.
8. Drawings: Contours for basin grading must be shown on the plan. A profile and cross-section of the spillway(s) and details for all appurtenances must be provided. Include bottom, wet storage, dry storage, and cleanout elevations; dimensions of outlet protection; and embankment width and elevation.
9. Cut-Off Trench: Provide for a cut-off trench along the centerline of the proposed embankment, a minimum depth of 4 feet and a bottom width (minimum 4 feet) wide enough to permit operation of excavation and compaction equipment. The cut-off trench must be excavated with side slopes 1:1 or flatter and be continuous for the entire length of proposed embankment.
10. Impervious Core: Provide an impervious core with a minimum top width of 4 feet along the centerline of the proposed embankment. Impervious core must be continuous throughout the embankment and must extend upwards with 1:1 side slopes from the cut-off trench up to the 10-year water surface elevation.

G-2 STANDARD AND SPECIFICATIONS

FOR SEDIMENT BASINS
Definition
A temporary pond formed by excavation and/or construction of an embankment and equipped with a draw-down device.
Purpose
To intercept sediment-laden runoff and retain sediment in order to protect drainage ways, properties, and rights-of-way downstream of the sediment basin from sedimentation.
Conditions Where Practice Applies
A sediment basin is required where sediment trap drainage areas are exceeded. Stormwater management ponds may be used as sediment basins provided they meet the requirements of this section and that the construction sequence addresses converting the sediment basin to the permanent stormwater management pond.

- 1. Hydrologic Analysis: Compute the runoff in accordance with NRCS TR-55 Urban Hydrology or the method outlined in Chapter 2 Estimating Runoff of the NRCS "Engineering Field Manual for Conservation Practices." Base runoff computations on "worst soil cover" conditions. Ensure that the combined capacities of the principal and emergency spillways are sufficient to pass the "worst" peak rate of runoff from the 10-year frequency storm. The start elevation for routing must correspond to the wet pool elevation (i.e. wet storage volume must not be included in the analysis).
2. Draw-Down Device: The dry storage volume is to be dewatered to the wet pool elevation over a 10 hour period. This can be done by constructing a perforated horizontal or vertical draw-down device with an orifice to control discharge. Use the chart or equations in Table G.1.0 to determine the appropriate orifice size. Design the pipe perforations so that the total area of the perforations is equal to or greater than 4 times the area of the control orifice. Alternate draw-down methods may be designed as allowed by the appropriate approval authority.
3. Outlet: Locate basin to discharge onto stable ground, stable channel, or into a storm drain system. Discharge to a buffer may be required. Provide an outlet that conveys the discharge in a non-erosive manner to a stable area. Protect against scour at the discharge end of the pipe spillway in accordance with the Section D-4 Outlet Protection.
4. Drainage Easements: Where discharge occurs at the property line, comply with local ordinances and drainage easement requirements. Show adequate notes and references concerning the easements on the erosion and sediment control plan.
5. Emergency Spillway: An emergency spillway is required when the principal spillway is not designed to pass the 10-year frequency storm. The entire flow area of the emergency spillway must be in existing ground (not fill). The control section is to be trapezoidal with a minimum bottom width of eight feet and have a straight, level length of at least 25 feet. The outlet section should have sufficient slope such that the discharge capacity of the spillway is not restricted and allows the discharge to be released at a non-erosive velocity.
6. The minimum capacity of the emergency spillway must pass the peak rate of runoff from the 10-year frequency storm, less any reduction due to flow in the principal spillway. Determine the emergency spillway dimensions by using Figure G.3 Emergency Spillway Design and Table G.9 or Figure G.4.
7. The velocity of flow in the exit channel must not exceed 5 feet per second for vegetated channels. For channels with erosion protection other than vegetation, ensure velocities are within the non-erosive range for the type of protection used.
8. Freeboard (elevation difference between the 10-year storm water surface in the emergency spillway and the top of the settled embankment) must be at least a minimum of one (1) foot. Where no emergency spillway is provided, design the freeboard to a minimum of two (2) feet.
9. The principal spillway crest elevation must be a minimum of one (1) foot below the elevation of the control section of the emergency spillway.
10. Principal Spillway: Provide a principal spillway which consists of a vertical pipe or concrete box (riser) joined to a pipe (barrel) that extends through the embankment and discharges beyond the downstream toe of the fill.
11. Riser and Barrel Assembly
a. The barrel must pass at least 10 percent of the 10-year, 24-hour frequency storm and be at least 10 inches in diameter. If the principal spillway is designed to pass the entire 10-year storm, then the barrel must have a minimum cross-sectional area of three (3) square feet.
b. The design of the barrel should be based on Table G.7, Table G.8, or hydraulic calculations. For plastic pipe, Table G.7 can be used for corrugated lined pipe and Table G.8 for smooth lined pipe. Use manufacturer specification for loading.
c. Pipe material must conform to NRCS Maryland Conservation Practice Standard Code No. 378 for Ponds.
d. An anti-vortex device and trash rack are required for all risers. For corrugated metal pipe risers, meet the specifications in Detail G-2-3 Concentric Trash Rack and Anti-Vortex Device. For other types of risers, refer to NRCS Maryland Conservation Practice Standard Code No. 378 for Ponds.
e. The riser must include a base of sufficient weight to prevent flotation of the riser. Concrete riser bases must be at least twice the diameter of the riser, a minimum of 18 inches thick, and contain steel reinforcement as shown in Detail G-2-2 Corrugated Riser Base. The riser needs to be embedded 9 inch minimum into the base. Anti-flotation calculations must be provided for risers over 10 feet in height, based on the following:
i. Analyze the riser for flotation, assuming all orifices and pipes are plugged.
ii. Provide a factor of safety of 1.2 or greater. (Downward forces > 1.2 x upward forces.)
f. Precast concrete structures must include details for a projection collar. If the riser contains multiple sections, provide a mechanical connection at each joint as shown on Detail G-2-8 Precast Riser Connector to prevent joint separation which may be caused by differential earth pressures in the embankment.
g. To prevent piping along the barrel, include a filter diaphragm or anti-seep collars around the barrel. Anti-seep collars may not be acceptable on permanent structures. For filter diaphragm design refer to NRCS Part 628 Dams, National Engineering Handbook, Chapter 45. Anti-seep collars are to be designed according to Figures G.5 and G.6.

- 12. Hydrologic Analysis: Compute the runoff in accordance with NRCS TR-55 Urban Hydrology or the method outlined in Chapter 2 Estimating Runoff of the NRCS "Engineering Field Manual for Conservation Practices." Base runoff computations on "worst soil cover" conditions. Ensure that the combined capacities of the principal and emergency spillways are sufficient to pass the "worst" peak rate of runoff from the 10-year frequency storm. The start elevation for routing must correspond to the wet pool elevation (i.e. wet storage volume must not be included in the analysis).
13. Draw-Down Device: The dry storage volume is to be dewatered to the wet pool elevation over a 10 hour period. This can be done by constructing a perforated horizontal or vertical draw-down device with an orifice to control discharge. Use the chart or equations in Table G.1.0 to determine the appropriate orifice size. Design the pipe perforations so that the total area of the perforations is equal to or greater than 4 times the area of the control orifice. Alternate draw-down methods may be designed as allowed by the appropriate approval authority.
14. Outlet: Locate basin to discharge onto stable ground, stable channel, or into a storm drain system. Discharge to a buffer may be required. Provide an outlet that conveys the discharge in a non-erosive manner to a stable area. Protect against scour at the discharge end of the pipe spillway in accordance with the Section D-4 Outlet Protection.
15. Drainage Easements: Where discharge occurs at the property line, comply with local ordinances and drainage easement requirements. Show adequate notes and references concerning the easements on the erosion and sediment control plan.
16. Emergency Spillway: An emergency spillway is required when the principal spillway is not designed to pass the 10-year frequency storm. The entire flow area of the emergency spillway must be in existing ground (not fill). The control section is to be trapezoidal with a minimum bottom width of eight feet and have a straight, level length of at least 25 feet. The outlet section should have sufficient slope such that the discharge capacity of the spillway is not restricted and allows the discharge to be released at a non-erosive velocity.
17. Principal Spillway: Provide a principal spillway which consists of a vertical pipe or concrete box (riser) joined to a pipe (barrel) that extends through the embankment and discharges beyond the downstream toe of the fill.
18. Riser and Barrel Assembly
a. The barrel must pass at least 10 percent of the 10-year, 24-hour frequency storm and be at least 10 inches in diameter. If the principal spillway is designed to pass the entire 10-year storm, then the barrel must have a minimum cross-sectional area of three (3) square feet.
b. The design of the barrel should be based on Table G.7, Table G.8, or hydraulic calculations. For plastic pipe, Table G.7 can be used for corrugated lined pipe and Table G.8 for smooth lined pipe. Use manufacturer specification for loading.
c. Pipe material must conform to NRCS Maryland Conservation Practice Standard Code No. 378 for Ponds.
d. An anti-vortex device and trash rack are required for all risers. For corrugated metal pipe risers, meet the specifications in Detail G-2-3 Concentric Trash Rack and Anti-Vortex Device. For other types of risers, refer to NRCS Maryland Conservation Practice Standard Code No. 378 for Ponds.
e. The riser must include a base of sufficient weight to prevent flotation of the riser. Concrete riser bases must be at least twice the diameter of the riser, a minimum of 18 inches thick, and contain steel reinforcement as shown in Detail G-2-2 Corrugated Riser Base. The riser needs to be embedded 9 inch minimum into the base. Anti-flotation calculations must be provided for risers over 10 feet in height, based on the following:
i. Analyze the riser for flotation, assuming all orifices and pipes are plugged.
ii. Provide a factor of safety of 1.2 or greater. (Downward forces > 1.2 x upward forces.)
f. Precast concrete structures must include details for a projection collar. If the riser contains multiple sections, provide a mechanical connection at each joint as shown on Detail G-2-8 Precast Riser Connector to prevent joint separation which may be caused by differential earth pressures in the embankment.
g. To prevent piping along the barrel, include a filter diaphragm or anti-seep collars around the barrel. Anti-seep collars may not be acceptable on permanent structures. For filter diaphragm design refer to NRCS Part 628 Dams, National Engineering Handbook, Chapter 45. Anti-seep collars are to be designed according to Figures G.5 and G.6.
19. Removal of Basin:
a. Specify on the plan the type(s) of dewatering device(s) to be used in accordance with Section F - Dewatering.
b. The location and disposal method(s) for sediment removed from a basin must be shown on the plans. Do not deposit the sediment downstream from the basin or adjacent to a drainage way or floodplain. Off-site disposal sites must be covered by an approved erosion and sediment control plan.
c. Silt fence or other sediment control practices may be required during basin installation and removal.
d. Upon removal, the wet soil around the basin must also be removed to facilitate compaction.

Maintenance
Sediment and debris must be removed and the basin restored to its original dimensions when sediment accumulates to the cleanout elevation (50% of the wet storage depth). Removed sediment must be deposited in an approved area in such a manner that it will not erode. The points of inflow and outflow as well as the interior of the basin must be cleared of any accumulated debris and kept free of erosion. The embankments must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Any trees, brush, or other woody vegetation growing on the embankment or near the principal spillway must be removed. The fine, grade, and cross section must be maintained. Water tight connections must be maintained. If the dry storage volume does not drain within 10 hours, the geotextile around the draw-down device must be replaced.

MIDDLE SCHOOL - SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT. (1 DAY)
2. NOTIFY MISS UTILITY (1-800-257-7777) 48 HOURS BEFORE STARTING WORK. NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTOR DIVISION (410-313-1895) 24 HOURS BEFORE STARTING WORK, AND NOTIFY THE BALTIMORE GAS ELECTRIC CO. (410-291-5739) FIVE (5) WORKING DAYS PRIOR TO STARTING WORK. (1 WEEK)
PHASE ONE:
3. INSTALL ALL PERIMETER CONTROLS: SCE WITH WASH RACK AT SERVICE DRIVE, PERIMETER SUPER SILT FENCE AND TREE PROTECTION FENCE. (2 WEEKS)
4. GRADE TEMPORARY SWM POND #1, INSTALL EARTH DIKE AND INSTALL STORM DRAINS AND STRUCTURE R-5. GRADE SEDIMENT BASIN @ BMP #4 AND INSTALL STORM DRAINS AND STRUCTURES R-4, M-2, M-1, E-1. (3 WEEKS)
5. GRADE ENTRANCE OF TEMPORARY PARKING LOT, INSTALL STORM DRAINS AND STRUCTURES I-B AND E-5. PAVE AND INSTALL SIDEWALK CONNECTION. (3 WEEKS)
6. INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE) WITH WASH RACK FOR TEMPORARY PARKING LOT. (1 DAY)
7. BEGIN SITE GRADING; WITH APPROVAL FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR BEGIN GRADING SCHOOL PAD AND SITE. (1 WEEK)
8. CONCURRENTLY:
INSTALL STORM DRAINS AND STRUCTURES I-1, M-6 AND M-5.
INSTALL STORM DRAINS AND STRUCTURES M-16, M-15, M-14, I-5, M-12 AND INLET PROTECTION.
INSTALL WATER MAIN FROM STATION 0+00 TO STATION 8+59 TEE.
INSTALL SEWER MAIN MANHOLES MH500, MH 505, MH 510, MH 515 AND MH 520. (3 WEEKS)
9. AS FINAL OR INTERMEDIATE GRADES ARE REACHED, INSTALL EARTH DIKE AND STABILIZE WITH EITHER TEMPORARY OR PERMANENT SEEDING AS APPROPRIATE. (3 WEEKS)
10. BEGIN CONSTRUCTION OF SCHOOL BUILDING. (10 MONTHS)
11. INSTALL RETAINING WALL. (1 WEEK)
12. INSTALL GEO-THERMAL WELL SYSTEMS. (2 MONTHS)
13. UPON COMPLETION OF GEO-THERMAL INSTALLATION INSTALL REMAINING PORTION OF TEMPORARY PARKING LOT PAVING, BITUMINOUS CURB AND MACADAM WALKWAYS. (1 WEEK)
14. CONCURRENTLY:
INSTALL WATER MAIN TO COMPLETE LOOP AND LATERALS.
INSTALL SEWER MAIN AND MANHOLE MH 525 AND BUILDING CONNECTIONS. (2 WEEKS)
INSTALL ELECTRICAL CONDUITS, GAS MAINS AND CABLE. (3 WEEKS)
15. INSTALL STORM DRAINS AND STRUCTURES I-1 TO I-2, M-2 TO M-5, E-2 TO I-4, M-7 TO M-10, E-3 TO M-11 AND EXCAVATE BMP #3 AREA TO ELEV. 442. DO NOT CONSTRUCT UNDERDRAINS OR INSTALL PLANT MATERIAL FOR BMP #3 AT THIS TIME. IMMEDIATELY PLACE INLET PROTECTION AT ALL NEW INLETS NOT DRAINING TO THE SEDIMENT BASINS. PLACE SUPER SILT FENCE AROUND RISER R-3 WHEN CONSTRUCTED. (2 WEEKS)
16. INSTALL CURB AND GUTTER AND BASE PAVING FOR SERVICE LANE. (2 WEEKS)
17. INSTALL SIDEWALKS, LIGHTING AND LANDSCAPING ALONG BOTH SIDES AND REAR OF SCHOOL. (3 WEEKS)
18. INSTALL TEMPORARY MACADAM WALKS FROM TEMPORARY PARKING LOT TO NEW SCHOOL AND FLAG POLE. (2 WEEKS)
19. COMPLETE SCHOOL CONSTRUCTION. (1 MONTH)
20. THOROUGHLY CLEAN (FLUSH) THE STORM DRAIN TO OR AROUND BMP'S #3 AND #4. (1 DAY)
21. WITH APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, CONVERT THE SEDIMENT BASIN @ BMP #4 AND BMP #3 INTO THE PERMANENT SWM FACILITIES (I.E. HAVING FULLY ESTABLISHED 3" GRASS OR PAVEMENT). THIS WORK INCLUDES REMOVING SEDIMENT, RE-GRADING TO DESIGN ELEVATIONS, INSTALLING FOREBAYS, UNDERDRAINS, STONE AND PLANTING SOILS LAYERS AND MULCH. STABILIZE PONDS WITH PERMANENT SEEDING AND INSTALL POND LANDSCAPING.
PHASE TWO:
22. BEGIN REMOVAL OF EXISTING SCHOOL BUILDING AND SIDEWALKS. (4 WEEKS)
23. ALL CONSTRUCTION WASTE GENERATED FROM THE DEMOLITION OF THE EXISTING SCHOOL BUILDING SHALL BE COMBINED TOGETHER IN COMMON BINS AND TRANSPORTED BY AN INDEPENDENT RECYCLER TO A MATERIALS RECOVERY FACILITY (MRF) FOR REMOTE SORTING AND WEIGHING OF ALL WASTE INCLUDING WASTE WHICH IS DIVERTED FROM LANDFILLS AND COMPLY WITH THE CONSTRUCTION WASTE MANAGEMENT GOALS FOR THIS PROJECT.
24. GRADE BUS LOOP AND DROP-OFF LANE. INSTALL CURB AND GUTTER AND BASE PAVING. (2 WEEKS)
25. INSTALL STORM DRAIN AND INLETS R-1, R-2, REPLACE INLET I-5 WITH MANHOLE M-13 AND PARTIALLY EXCAVATE BMP'S #1 AND #2 AREAS TO ELEV. 440. DO NOT CONSTRUCT UNDERDRAINS OR INSTALL PLANT MATERIAL BMP'S #1 AND #2 AT THIS TIME. PLACE INLET PROTECTION ON RISERS R-1 AND R-2 WHEN CONSTRUCTED. (2 WEEKS)
26. INSTALL CONCRETE SIDEWALKS ALONG BUS LOOP, DROP OFF LANES AND ENTRANCE PLAZA. (2 WEEKS)
PHASE THREE:
27. REMOVE TEMPORARY PARKING LOT AREA ONLY AND REGRADE THE DISTURBED AREA AT ENTRANCE PORTION, ONLY REMOVE THE MACADAM PAVEMENT, LEAVE SUB-BASE AS STABILIZED CONSTRUCTION ENTRANCE (SCE). (2 WEEKS)
28. REMOVE TEMPORARY SWM POND, STORM DRAINS FROM R-5 TO THE EXISTING INLET. REPLACE THE EXISTING INLET WITH A STANDARD MANHOLE M-17. (2 DAYS)
29. INSTALL STORM DRAINS AND STRUCTURES I-7 TO E-4. (3 DAYS)
30. INSTALL PLAY FIELDS AND STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDING AND MULCH AND SOO AS INDICATED ON PLANS. THE CONTRACTOR SHALL ALSO FINE GRADE ALL AREAS WITHIN THE LIMITS OF DISTURBANCE THAT WERE DISTURBED DURING THE BUILDING CONSTRUCTION AND STABILIZE WITH PERMANENT SEEDING AND MULCH. CONTRACTOR MUST ENSURE ALL GRAVEL USED FOR PARKING LOT AND WALKS IS COMPLETELY REMOVED AND TOPSOIL IS SCREENED AND PLACED ON THE FIELDS. CONTACT GROUNDS MAINTENANCE SUPERVISOR GREG CONNOR AT 410-313-2577 FOR INSPECTION ONE WEEK PRIOR TO FINE GRADING OF THE SITE. (2 WEEKS)
31. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS. (1 WEEK)
32. INSTALL SURFACE COURSE PAVING. (1 WEEK)
33. THOROUGHLY CLEAN (FLUSH) THE REMAINING STORM DRAIN SYSTEMS. (1 DAY)
34. WITH APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, CONVERT THE SEDIMENT BASIN INTO THE PERMANENT SWM FACILITIES (BMP'S #1 AND BMP #2) (I.E. HAVING FULLY ESTABLISHED 3" GRASS OR PAVEMENT). THIS WORK INCLUDES REMOVING SEDIMENT, RE-GRADING TO DESIGN ELEVATIONS, INSTALLING FOREBAYS, UNDERDRAINS, STONE AND PLANTING SOILS LAYERS AND MULCH. STABILIZE POND WITH PERMANENT SEEDING AND INSTALL POND LANDSCAPING.
35. FOLLOWING SUCCESSFUL STABILIZATION (I.E., FULLY-ESTABLISHED VEGETATION (3" GRASS OR PAVING) OF ALL DISTURBED AREAS, OBTAIN PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR TO REMOVE ALL REMAINING SEDIMENT & EROSION CONTROL DEVICES AND THEN STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS WITH PERMANENT SEEDING. (1 WEEK)
EROSION AND SEDIMENT CONTROL NOTE:
THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON ALL SEDIMENT CONTROL DEVICES/PRACTICES ON A DAILY BASIS, AND IMMEDIATELY AFTER A RAINFALL.

STANDARD STABILIZATION NOTE
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
B.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE DEC. 11, 2014

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: [Signature] DATE: 04/22/18
NAME: DEANNA A. DORSEY MD LICENSE NO. 45261 EXP. DATE 04/10/20
ALCON SOLUTIONS
201 DeFosse Highway, Suite 200
Annapolis, MD 21401
PH: 410.234.3232

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21104
(410) 441 - 2000

ENGINEER'S CERTIFICATE
I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Signature of Engineer: [Signature] DATE: 12/18/14
DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.
Signature of Developer: [Signature] DATE: 12/18/14

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. 13204, Expiration Date: November 3, 2016.
Signature: [Signature] DATE: 12/18/14
CHARLES J. PROVO, SR., P.E.
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Signature: [Signature] DATE: 12/18/14
John K. Roberts
Howard SCD

REVISION SHEET NUMBER
11/24/16
REVISION SHEET NUMBER
9/11/16
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Signature: [Signature] DATE: 2-11-15
Signature: [Signature] DATE: 2-11-15
Signature: [Signature] DATE: 2-5-15

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805
Address Chart
Parcel Number: 280
Street Address: 10401 CROSS FOX LANE, COLUMBIA, MD 21044
PROJECT: WILDE LAKE MIDDLE SCHOOL
SECTION/AREA: 11/1
PARCEL: 280
PLAT NOS.: 821G, 821C, 821B
BLOCK NO.: 24.6
ZONE: NT
TAX MAP: 29.35
ELEC. DIST.: FIFTH
CENSUS TR.: 6054
WATER CODE: E-30
SEWER CODE: 5523900

SEDIMENT AND EROSION CONTROL NOTES
VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT
SCALE: AS SHOWN DATE: DECEMBER 11, 2014
SHEET 15 OF 54

B-4.3 STANDARDS AND SPECIFICATIONS

FOR

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition

The process of preparing the soils to sustain adequate vegetative stabilization.

Purposes

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies

Where vegetative stabilization is to be established.

Criteria

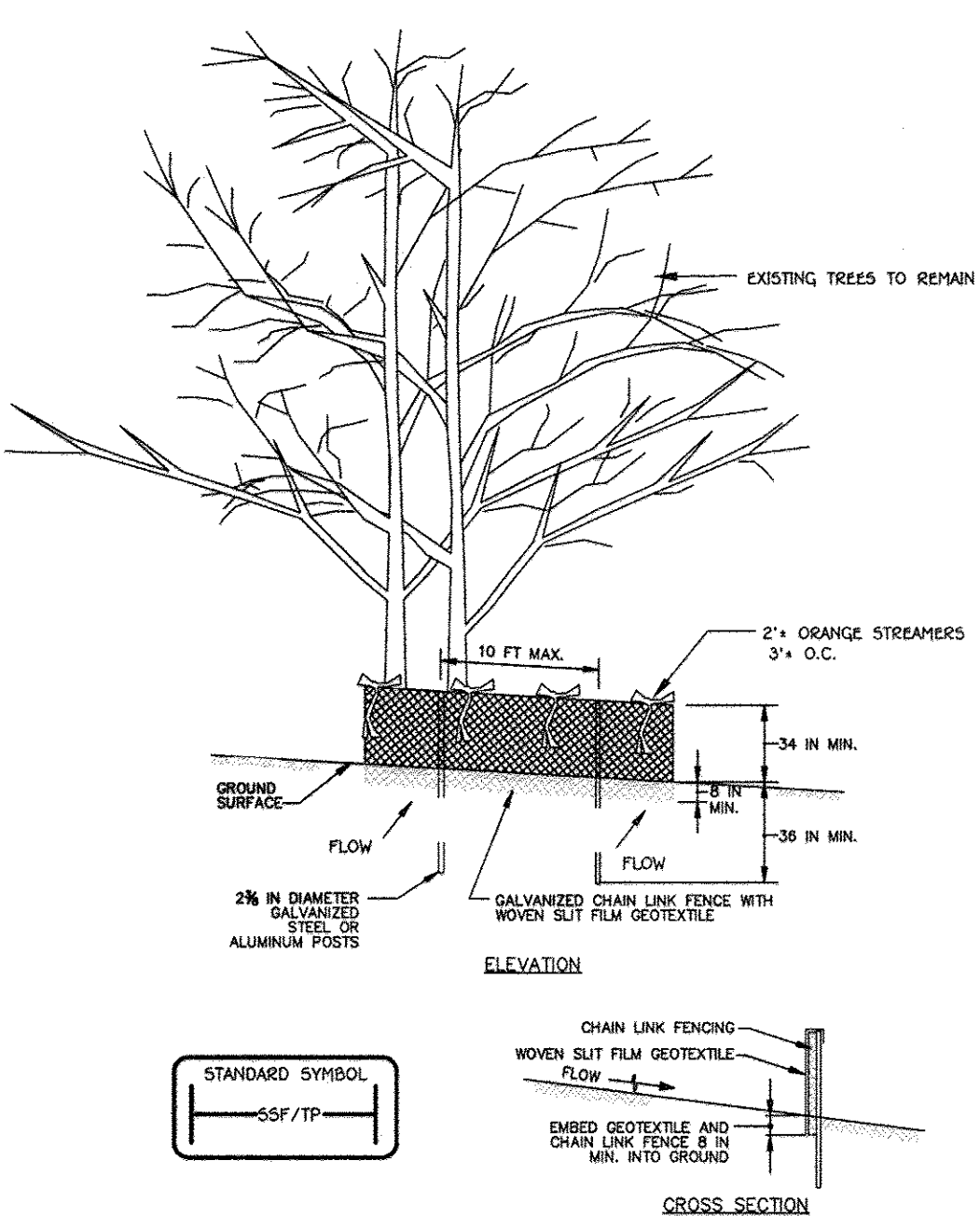
- A. Soil Preparation
1. Temporary Stabilization
a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment...
2. Permanent Stabilization
a. A soil test is required for any earth disturbance of 5 acres or more...

4. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil

e. Mix soil amendments into the top 3 to 5 inches of soil by disk or other suitable means. Rate level areas to smooth the surface, remove large objects like stones and benches, and ready the area for seed application.

B. Topsoiling

- 1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth...
2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications...
3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth...
4. Areas having slopes steeper than 2:1 require special consideration and design.



STANDARD SYMBOL

SSF/TP

CONSTRUCTION SPECIFICATIONS

- 1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.09 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART...
2. FASTEN 8 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS...
3. FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION...

SUPER SILT FENCE TREE PROTECTION FENCE

NOT TO SCALE

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

SIGNATURE: D. A. Dreyer DATE: 04/27/16
NAME: DENNIS A. DREYER, MD. LICENSE NO. 45261
EXP. DATE: 04/12/20

APPROVED PLANNING BOARD OF HOWARD COUNTY DATE: DEC. 11, 2014

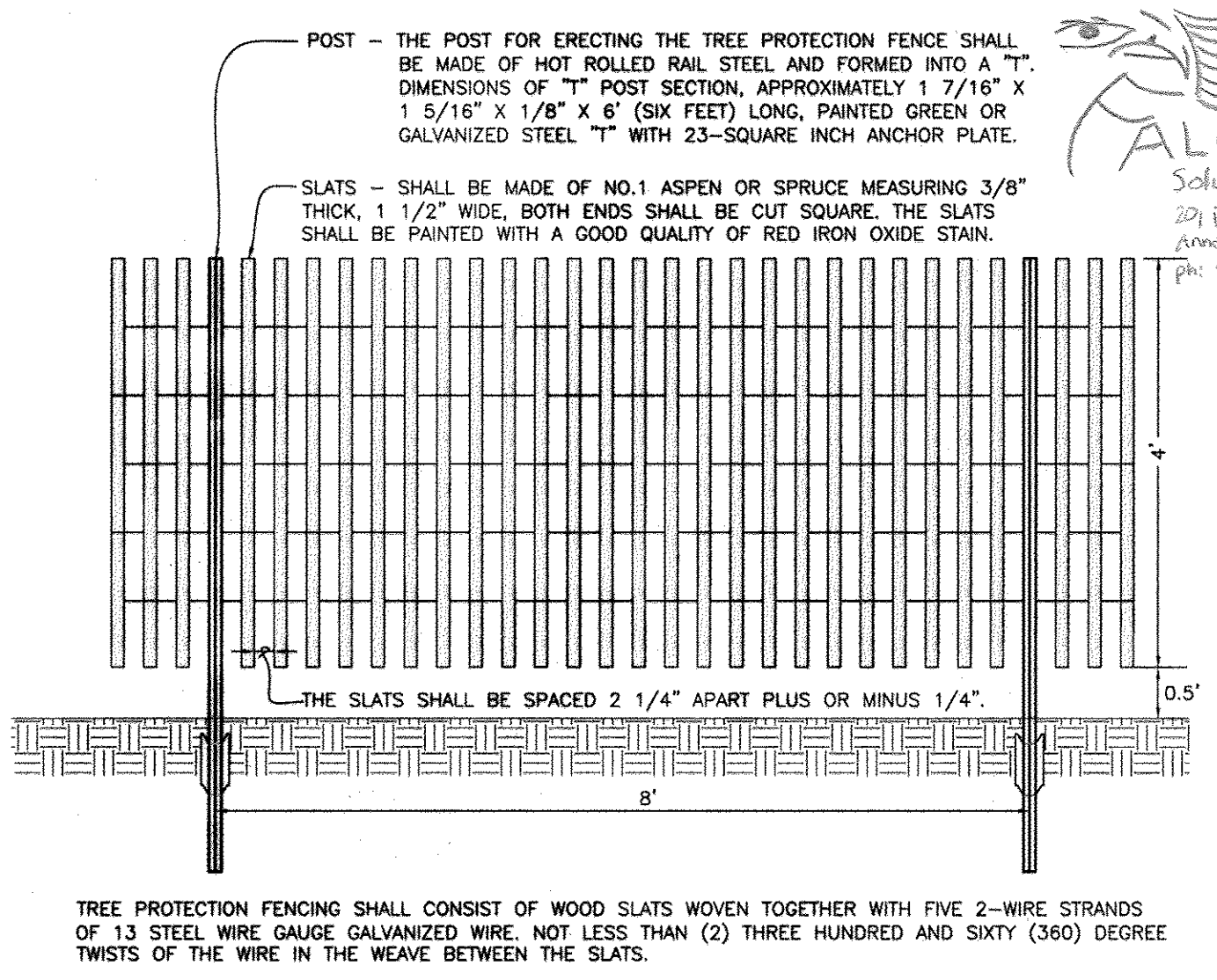
NOTE: THE CONTRACTOR IS RESPONSIBLE FOR PUMPING ALL STANDING WATER FROM EXCAVATED AREAS THAT REMAINS 24 HOURS AFTER A 1-YEAR OR 2-YEAR STORM EVENT OR 48 HOURS AFTER A 10-YEAR STORM EVENT.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 3 CALENDAR DAYS FOR ALL PERMITS SEDIMENT CONTROL STRUCTURES, DICES, PERMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

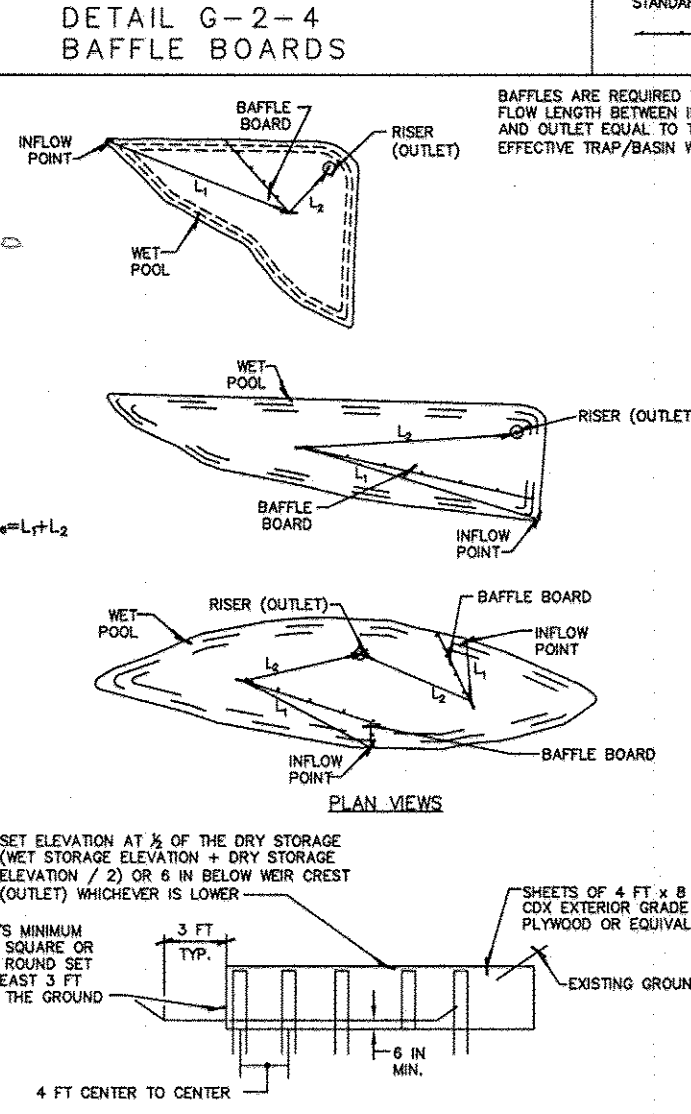
DUST CONTROL

- DEFINITION: CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.
PURPOSE: TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.
CONDITIONS WHERE PRACTICE APPLIES: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.
SPECIFICATIONS:
TEMPORARY METHODS:
1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLOSD TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF THE SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12' APART, SPRING-TOOTHED HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
4. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NECESSARY AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
5. BARRIERS - SOLID BOARD FENCES SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALE DICES AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TO 15 FEET. THESE ARE EFFECTIVE IN REDUCING SOIL BLOWING.
6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL PLACE SURFACE MOIST. MAY NEED RETREATMENT.
PERMANENT METHODS:
1. PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER AND PERMANENT STABILIZATION WITH SOIL. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
2. TOPSOILING - COVERING WITH LESS COARSE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
3. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



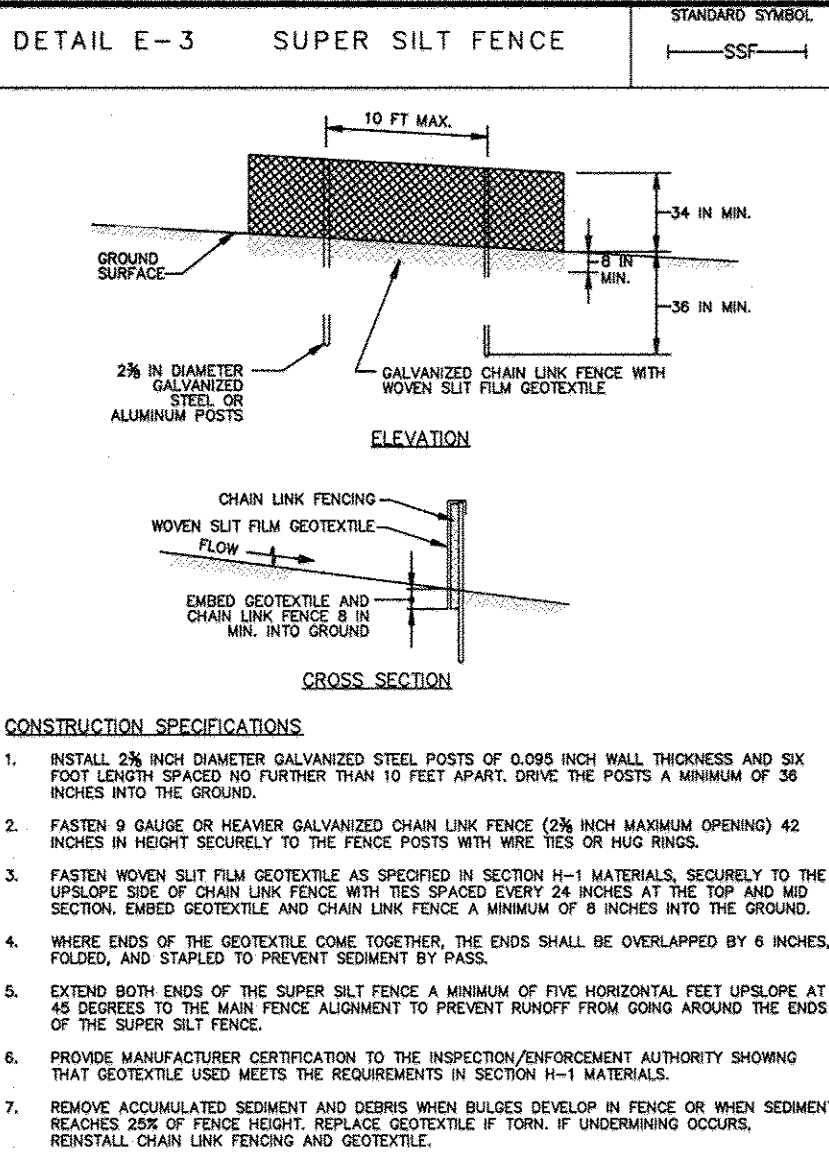
TREE PROTECTION FENCE DETAIL

NOT TO SCALE



BAFFLE DETAIL

NOT TO SCALE

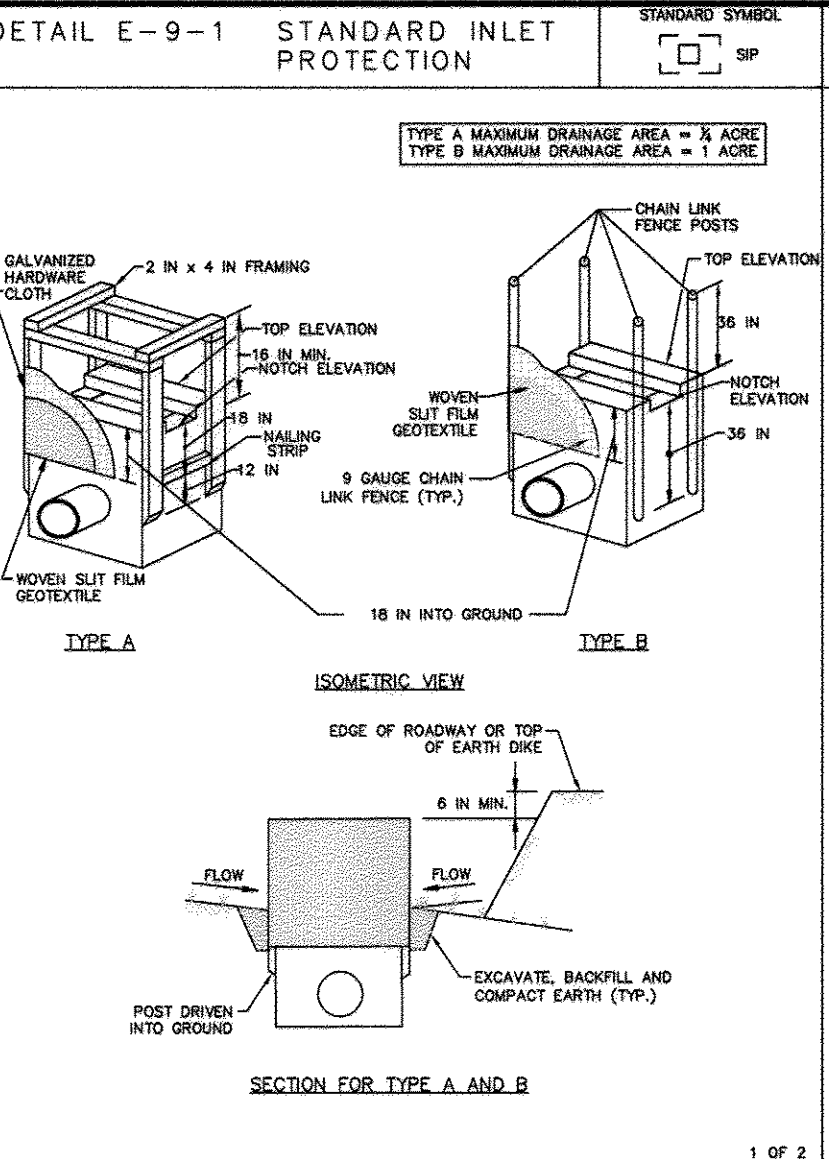


DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBOL: SSF

CONSTRUCTION SPECIFICATIONS

- 1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.09 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART...
2. FASTEN 8 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS...
3. FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION...

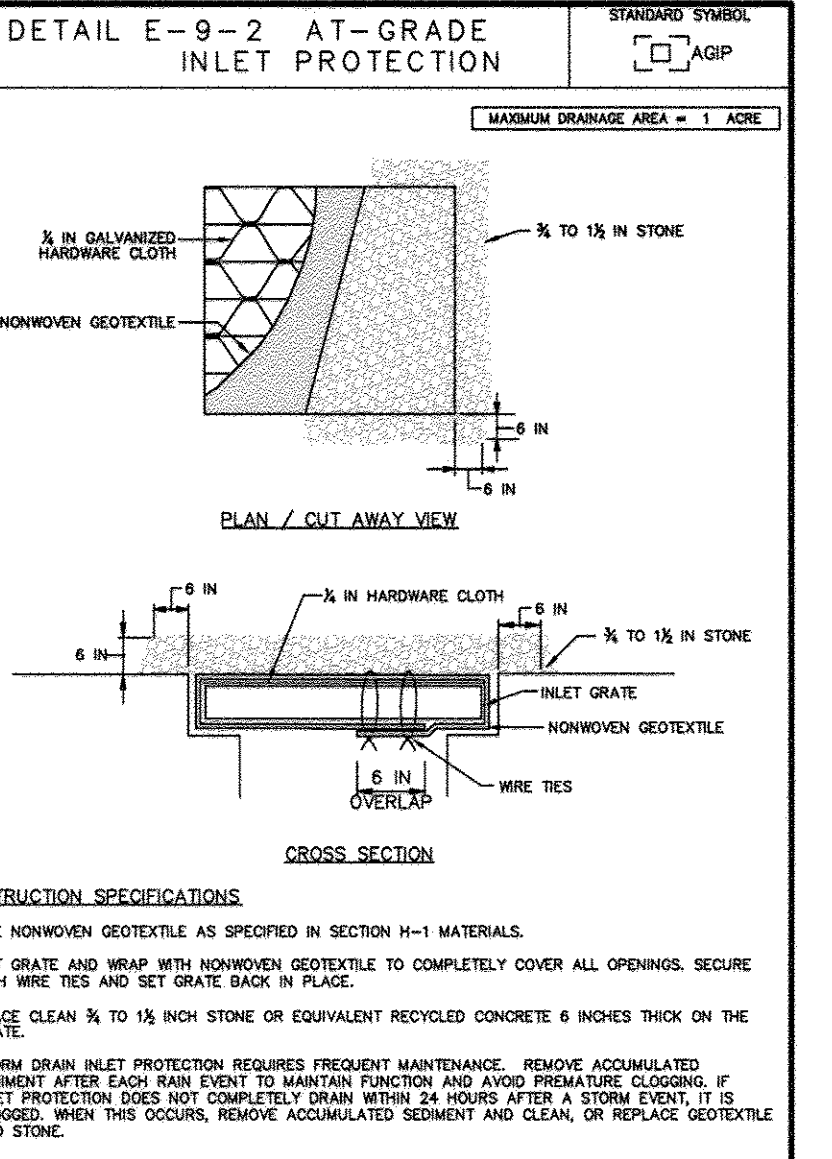


DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SP

CONSTRUCTION SPECIFICATIONS

- 1. USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH GALVANIZED HARDWARE CLOTH WITH A MINIMUM WIDTH OF 36 INCHES AND A MINIMUM LENGTH OF 24 INCHES...
4. FOR TYPE B, USE 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.09 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE NOTCH ELEVATION AT EACH CORNER...

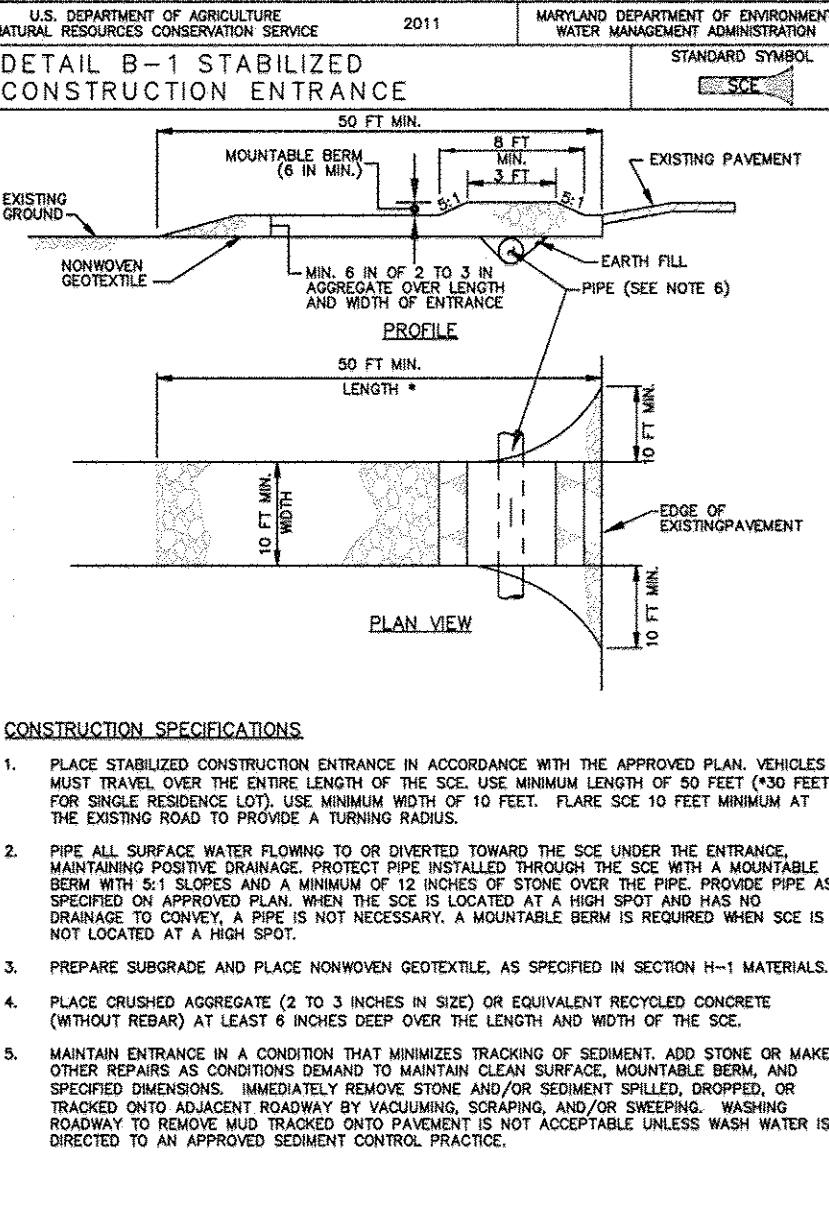


DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL: AGP

CONSTRUCTION SPECIFICATIONS

- 1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
3. CLEAN 1/4 TO 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
4. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOSING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

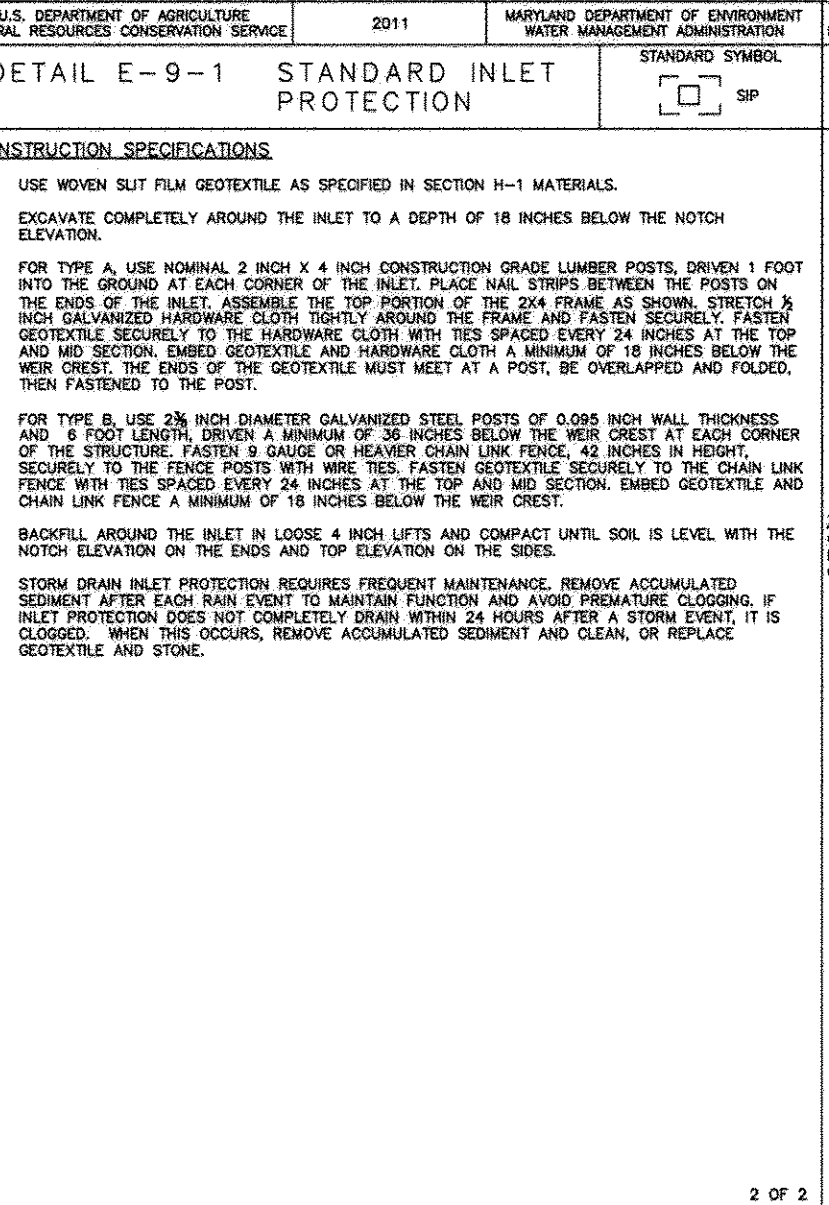


DETAIL D-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE

CONSTRUCTION SPECIFICATIONS

- 1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET FOR SINGLE RESIDENCE LOTS. USE MINIMUM WIDTH OF 10 FEET. FLARE SIZE TO FEET MINIMUM AT EACH END TO MATCH EXISTING ROAD TO PREVENT TRAFFIC FROM DIVERTING.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MINIMUM OF 6 INCHES OF 2 INCH DIAMETER STONE OR 12 INCHES OF STONE OVER THE PIPE. PRODUCE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HOT SPOT AND HAS NO DRAINAGE TO COLLECT, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS LOCATED AT A HOT SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CHURNED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS CHANGE TO MAINTAIN CLEAN SURFACE. MAINTAIN BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY OPERATOR, SEPARATING AND/OR SWEETING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

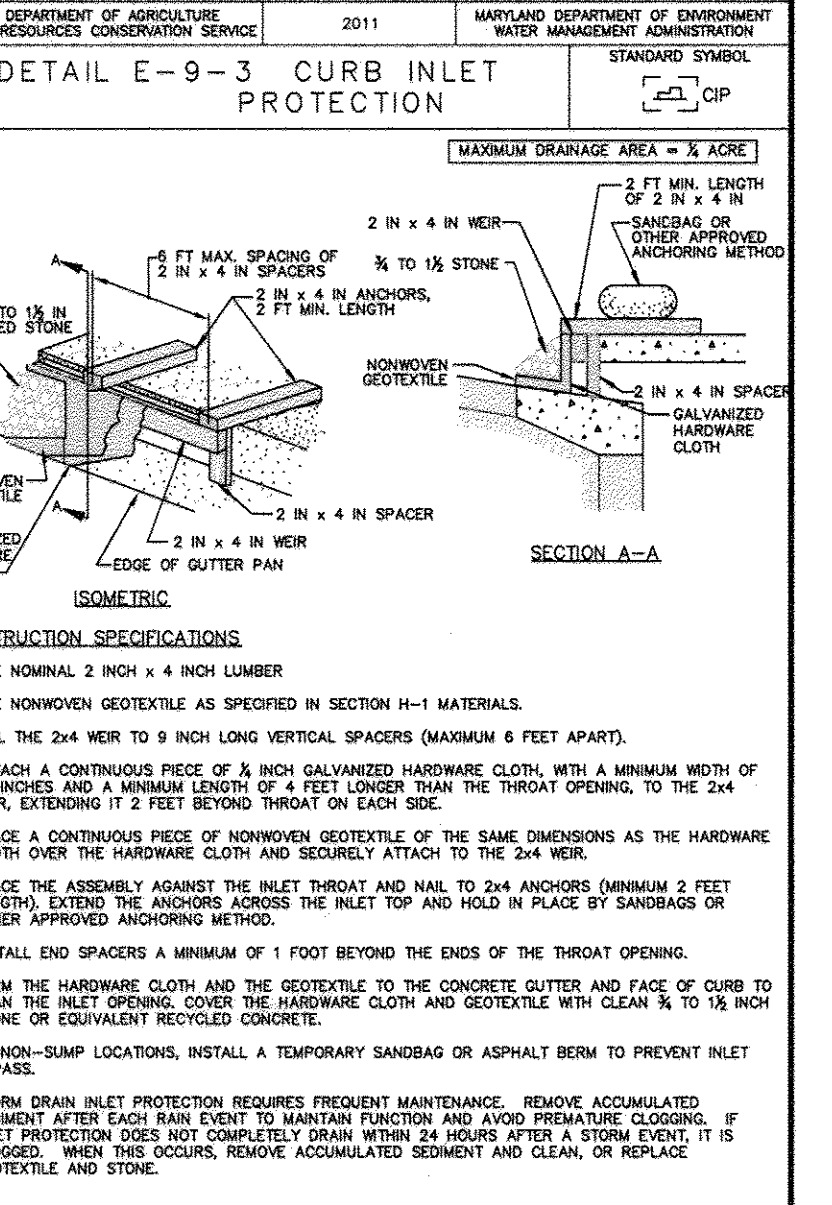


DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SP

CONSTRUCTION SPECIFICATIONS

- 1. USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH GALVANIZED HARDWARE CLOTH WITH A MINIMUM WIDTH OF 36 INCHES AND A MINIMUM LENGTH OF 24 INCHES...
4. FOR TYPE B, USE 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.09 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE NOTCH ELEVATION AT EACH CORNER...

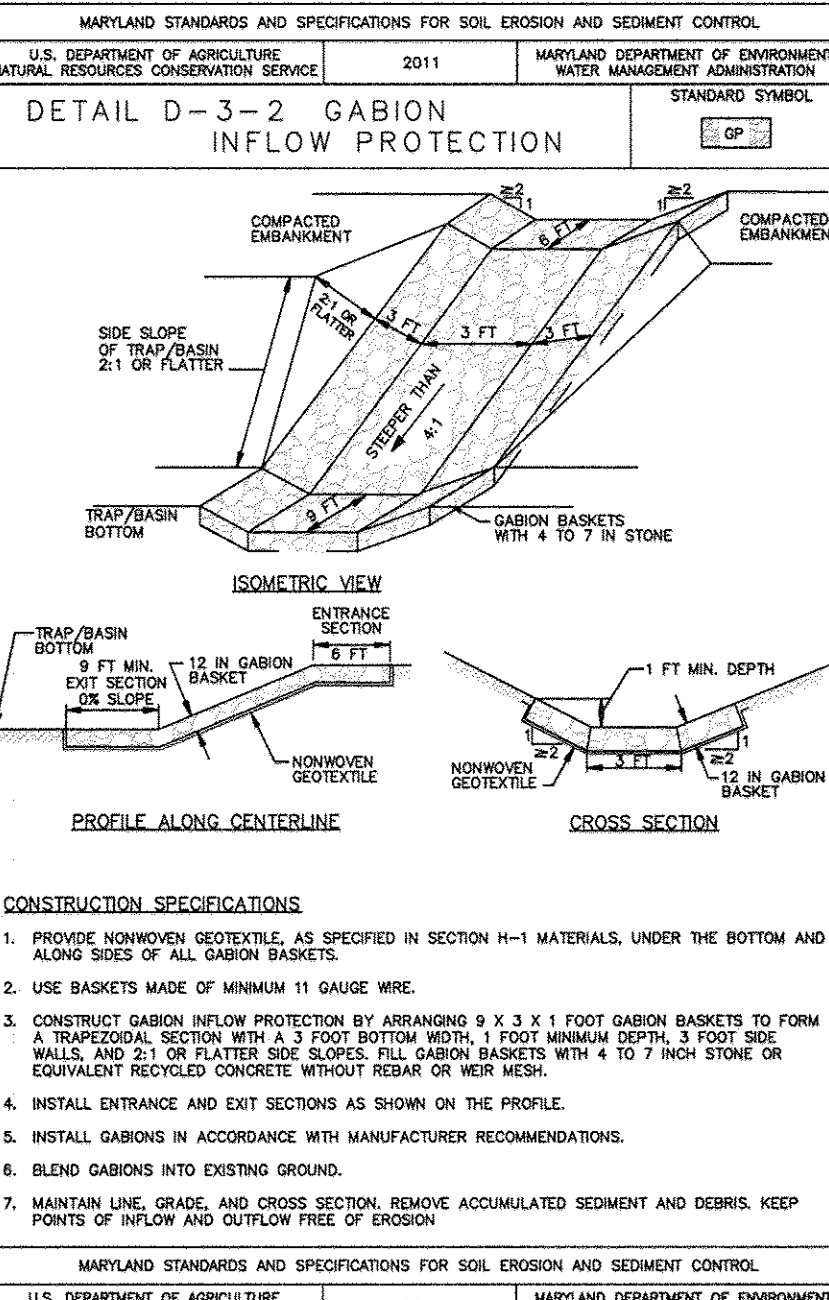


DETAIL E-9-3 CURB INLET PROTECTION

STANDARD SYMBOL: CP

CONSTRUCTION SPECIFICATIONS

- 1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. USE NOMINAL 2 INCH X 4 INCH LUMBER.
3. ATTACH A CONTINUOUS PIECE OF 3/4 INCH GALVANIZED HARDWARE CLOTH WITH A MINIMUM WIDTH OF 36 INCHES AND A MINIMUM LENGTH OF 2 FEET LONGER THAN THE THROAT OPENING TO THE 2x4 WER, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
4. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WER.
5. PLACE THE ASSEMBLY AGAINST THE INLET BURT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH) EXTENDING THE ANCHORS AGAINST THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
6. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
7. FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE CURB AND FACE OF CURB TO SPREAD THE INLET OPENING COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN 1/2 TO 3/4 INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
8. AT NON-SAMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET.
9. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOSING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

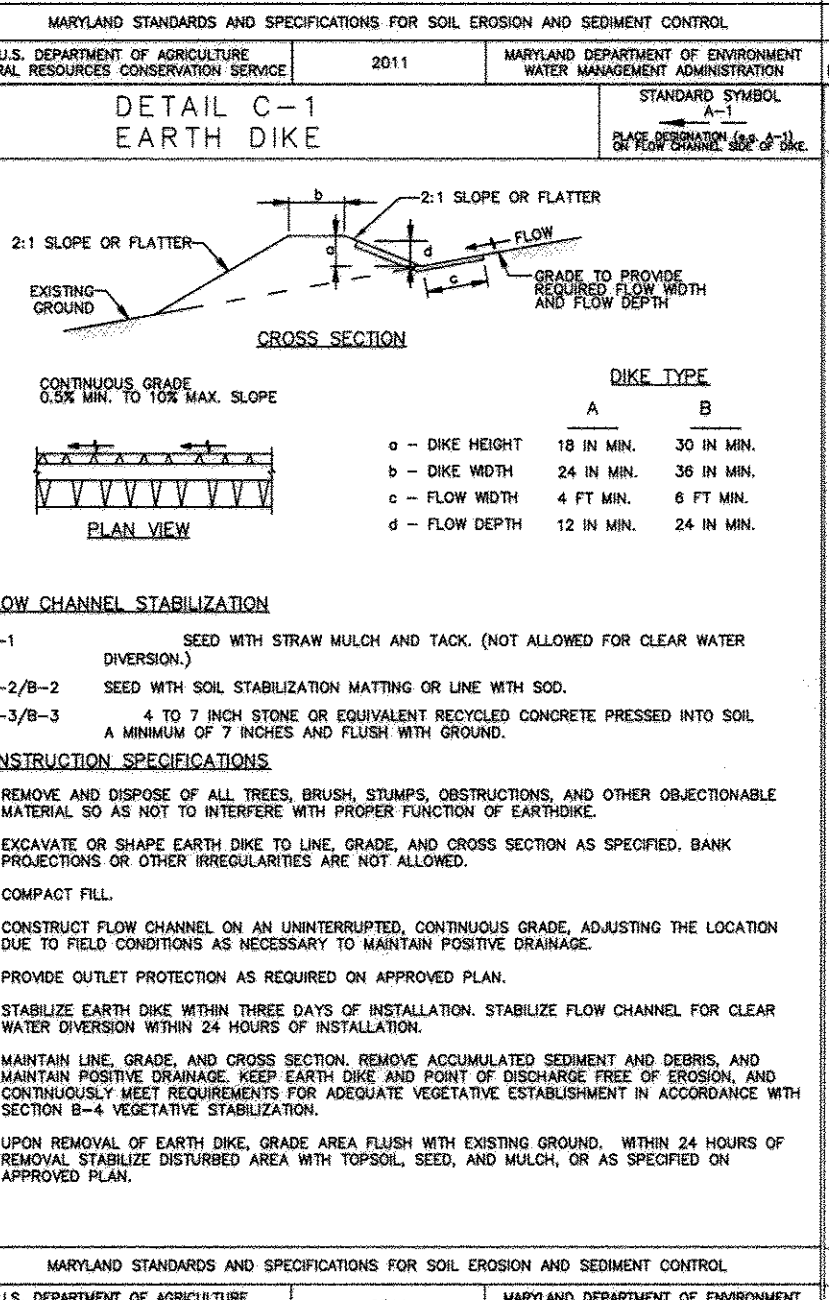


DETAIL D-3-2 GABION INFLOW PROTECTION

STANDARD SYMBOL: GP

CONSTRUCTION SPECIFICATIONS

- 1. PROVIDE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND ALONG SIDES OF ALL GABION BASKETS.
2. USE BASKETS MADE OF MINIMUM 1/4 INCH GAUGE WIRE.
3. CONSTRUCT GABION INFLOW PROTECTION BY ARRANGING 3 X 3 X 1 FOOT GABION BASKETS TO FORM A TRIANGULAR SECTION WITH A 3 FOOT BOTTOM WIDTH, 1 FOOT MINIMUM DEPTH, 3 FOOT SIDE SLOPE, AND 4 TO 7 HIGH STONE OR EQUIVALENT RECYCLED CONCRETE WITHOUT REBAR OR WITH REBAR.
4. INSTALL ENTRANCE AND OUT SECTIONS AS SHOWN ON THE PROFILE.
5. INSTALL GABIONS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
6. BLEND GABIONS INTO EXISTING GROUND.
7. MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. KEEP POINTS OF INFLOW AND OUTFLOW FREE OF OBSTRUCTION.

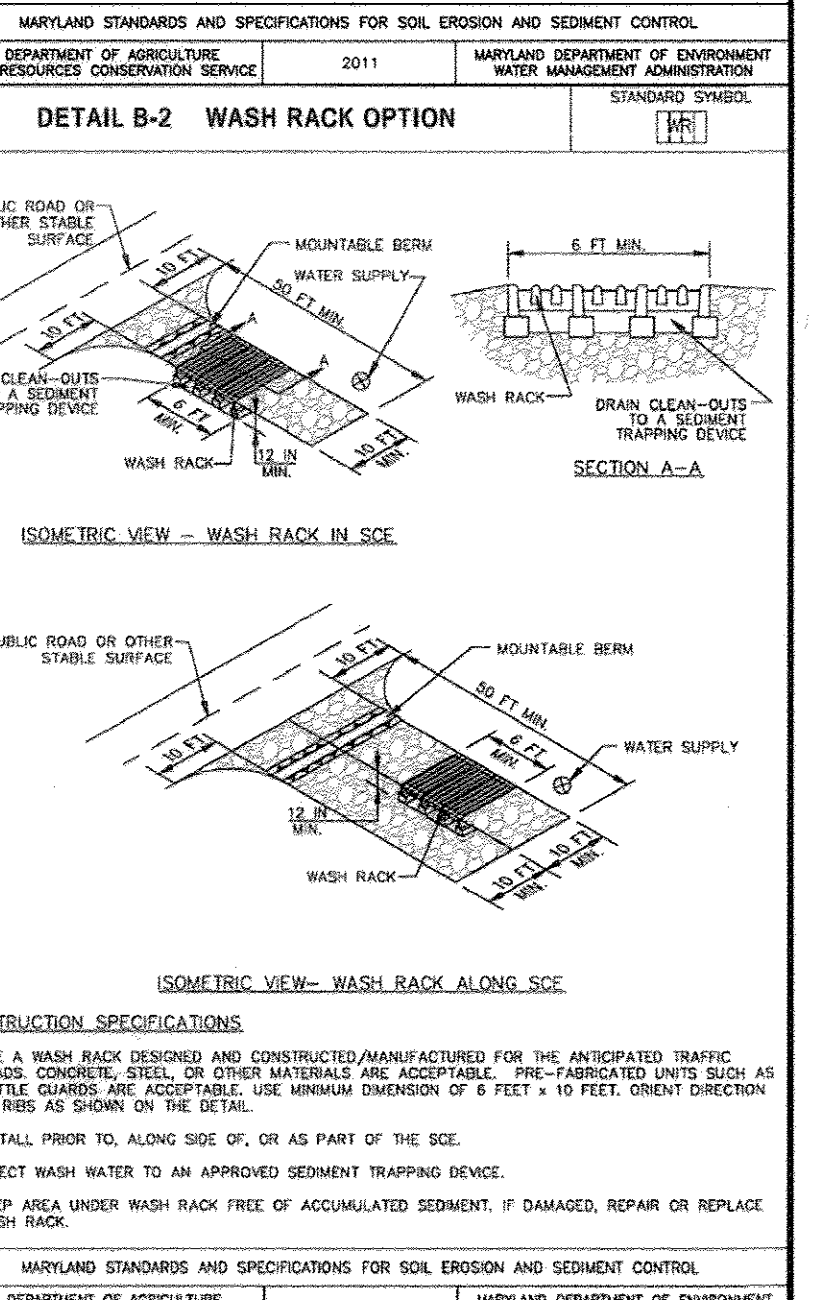


DETAIL C-1 EARTH DIKE

STANDARD SYMBOL: ED

CONSTRUCTION SPECIFICATIONS

- 1. REMOVE AND DISPOSE OF ALL TREES, BRUSH, STAMPS, OBSTRUCTIONS, AND OTHER OBSTRUCTIONABLE MATERIALS SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTH DIKE.
2. EXCAVATE OR SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.
3. COMPACT FILL.
4. CONSTRUCT FLOW CHANNELS ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION OF FLOW CHANNELS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
5. PROVIDE CUTOFF PROTECTION AS REQUIRED ON INSTALLATION.
6. STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR WATER FLOW WITHIN 24 HOURS OF INSTALLATION.
7. MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF OBSTRUCTION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.
8. UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL, STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.



DETAIL B-2 WASH RACK OPTION

STANDARD SYMBOL: WR

CONSTRUCTION SPECIFICATIONS

- 1. USE A WASH RACK DESIGNED AND CONSTRUCTED MANUFACTURED FOR THE ANTICIPATED TRAFFIC LOADS. CONCRETE, STEEL, OR OTHER MATERIALS ARE ACCEPTABLE. PRE-FABRICATED UNITS SUCH AS CASTLE GRATES ARE ACCEPTABLE PROVIDED THEY MEET THE MINIMUM DIMENSION OF 6 FEET X 10 FEET. SEE THE DETAIL.
2. INSTALL PRIOR TO ANY WORK ON, OR AS PART OF THE JOB.
3. DIRECT WASH WATER TO AN APPROVED SEDIMENT TRAPPING DEVICE.
4. KEEP AREA UNDER WASH RACK FREE OF ACCUMULATED SEDIMENT. IF DAMAGED, REPAIR OR REPLACE WASH RACK.

ENGINEER'S CERTIFICATE: FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS. I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

DEVELOPER'S CERTIFICATE: I certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.

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. 13204, Expiration Date: November 3, 2016.

APPROVED: DEPARTMENT OF PLANNING AND ZONING. William A. Mosley, Jr., Director, Department of Planning and Zoning. Chief, Division of Land Development. Date: 2-11-15.

PREPARED FOR: HOWARD COUNTY PUBLIC SCHOOL SYSTEM. HARRIET TUBMAN BUILDING, 8045 HARRIET TUBMAN LANE, COLUMBIA, MARYLAND 21044. Attention: SCOTT WASHINGTON, 410-313-6805.

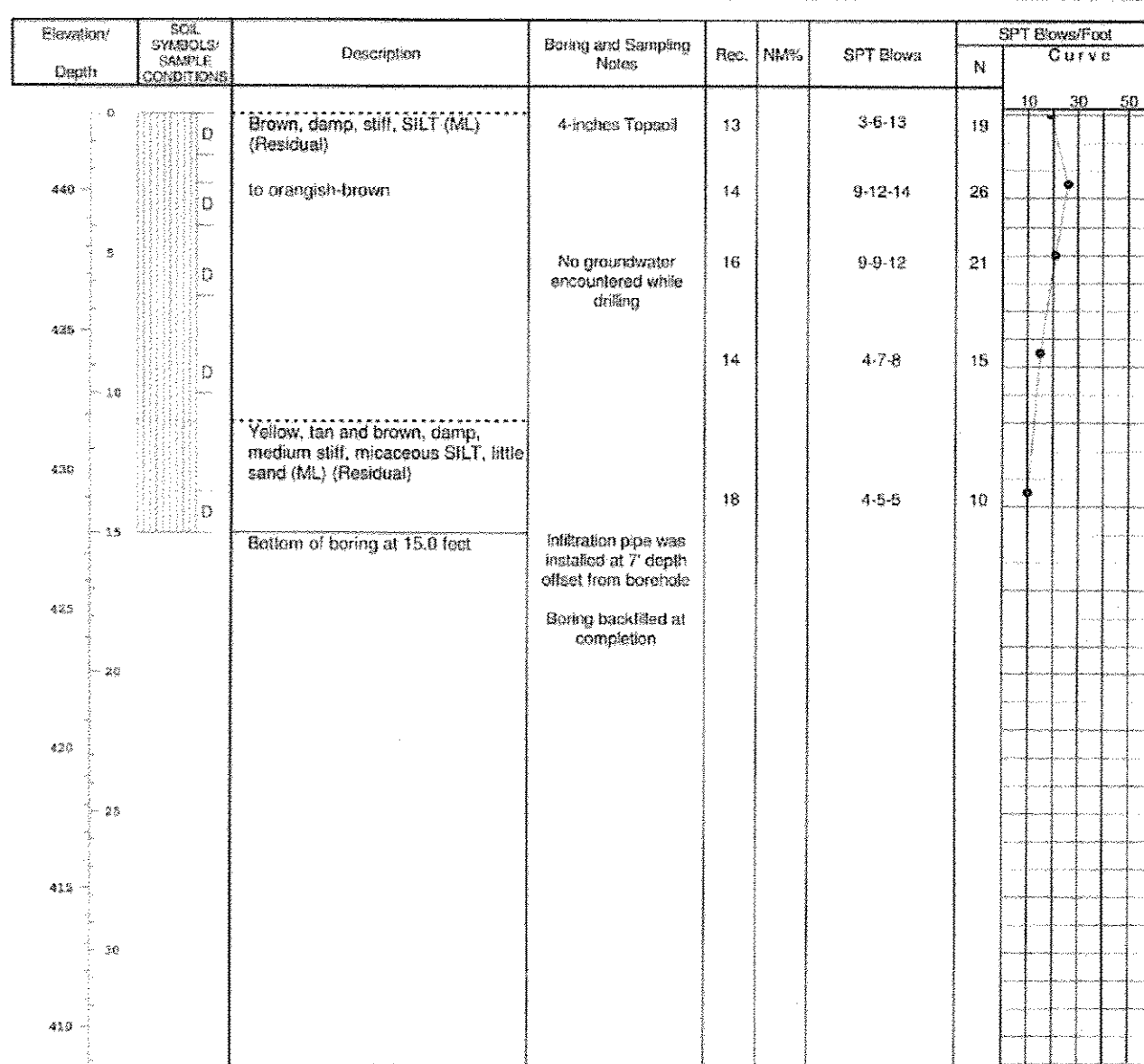
Address Chart: Parcel Number 280, Street Address 10481 CROSS FOX LANE, COLUMBIA, MD 21044.

SEDIMENT AND EROSION CONTROL NOTES AND DETAILS. As-Built VILLAGE OF WILDE LAKE SECTION 11 AREA 1 LOT 1 WILDE LAKE MIDDLE SCHOOL. ZONED: NT, PARCEL No.: 280, TAX MAP No.: 29 GRID No.: 24, TAX MAP No.: 35 GRID No.: 6, FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND, SCALE: AS SHOWN, DATE: DECEMBER 11, 2014, SHEET 16 OF 54.

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wilde Lake Middle School Boring No. SWM-1
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Surf. Elev. 442.75 ft Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/07/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/07/2014



SAMPLER TYPE: DRIVEN SPIGOT UNLESS OTHERWISE NOTED
PT: PRESSED SPIGOT TUBE
CA: CONTINUOUS FLIGHT AUGER
RC: ROCK CORE

SAMPLE CONDITIONS: D: DISTURBED
I: INTACT
U: UNDISTURBED
L: LOST

GROUND WATER: Dry

CAVE IN DEPTH: 10.0'

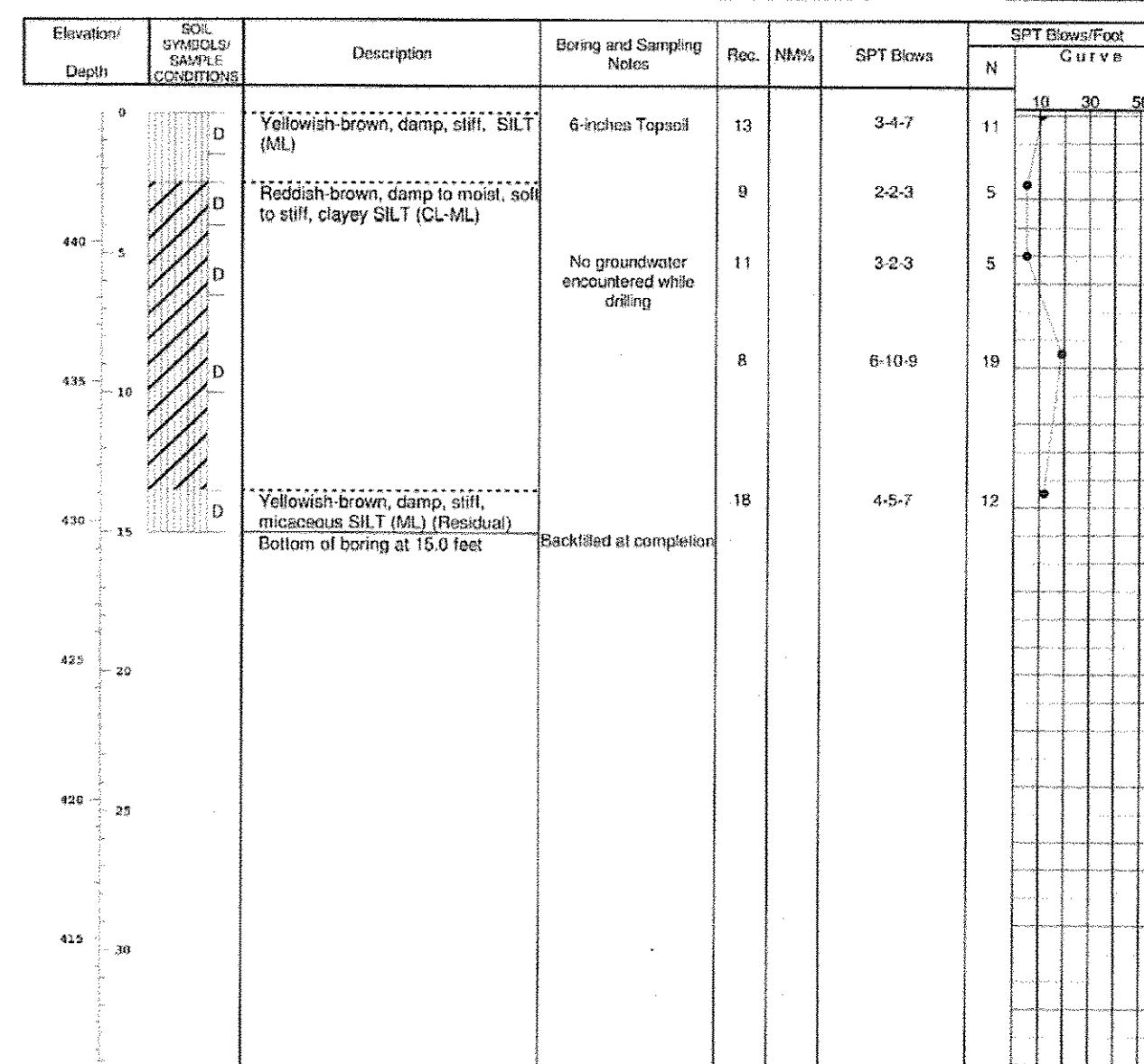
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" O.D. SAMPLER WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wilde Lake Middle School Boring No. SWM-2
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Surf. Elev. 444.60 ft Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/07/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/07/2014



SAMPLER TYPE: DRIVEN SPIGOT UNLESS OTHERWISE NOTED
PT: PRESSED SPIGOT TUBE
CA: CONTINUOUS FLIGHT AUGER
RC: ROCK CORE

SAMPLE CONDITIONS: D: DISTURBED
I: INTACT
U: UNDISTURBED
L: LOST

GROUND WATER: Dry

CAVE IN DEPTH: 11.0'

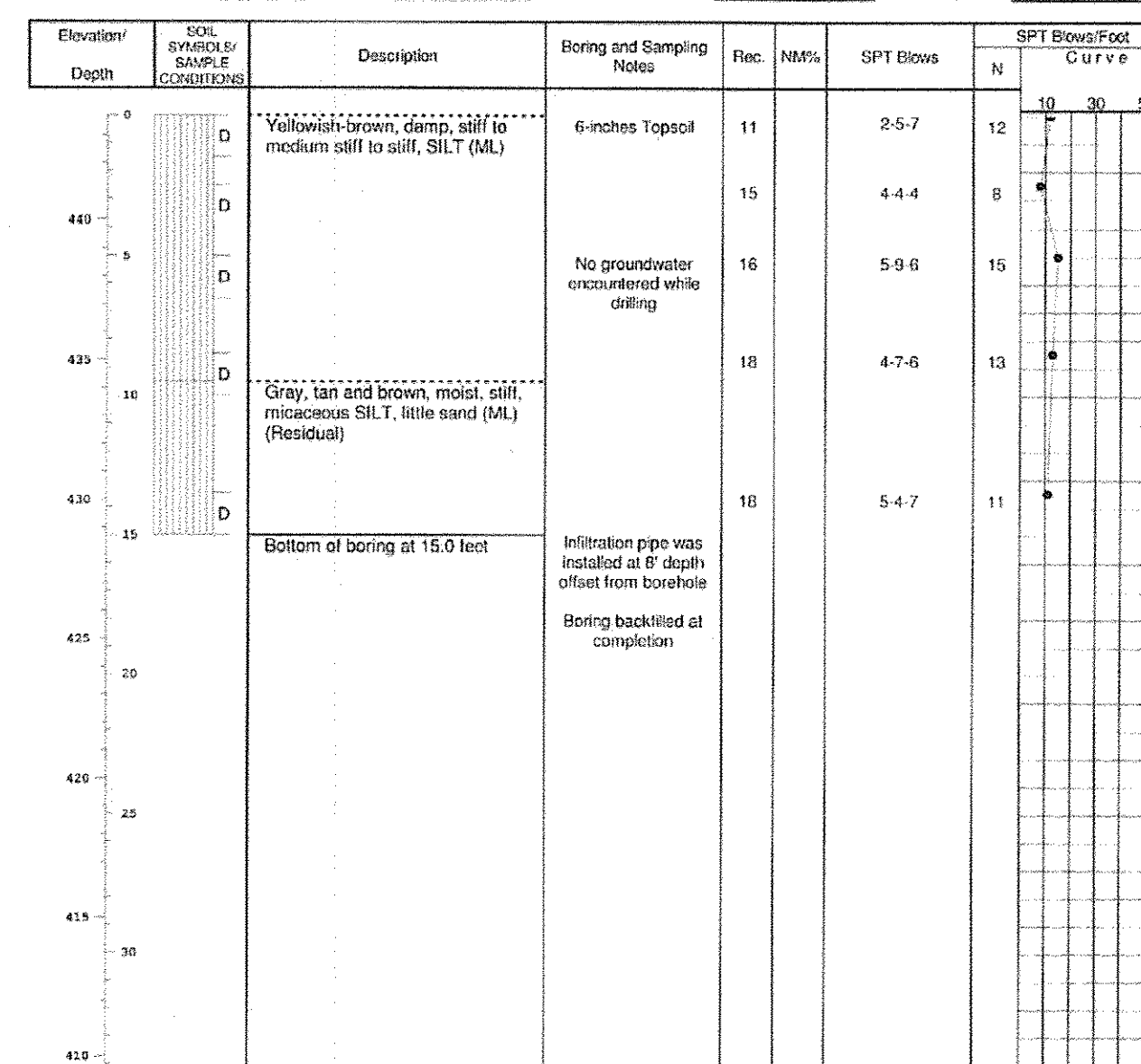
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" O.D. SAMPLER WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wilde Lake Middle School Boring No. SWM-3
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Surf. Elev. 443.73 ft Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/07/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/07/2014



SAMPLER TYPE: DRIVEN SPIGOT UNLESS OTHERWISE NOTED
PT: PRESSED SPIGOT TUBE
CA: CONTINUOUS FLIGHT AUGER
RC: ROCK CORE

SAMPLE CONDITIONS: D: DISTURBED
I: INTACT
U: UNDISTURBED
L: LOST

GROUND WATER: Dry

CAVE IN DEPTH: 10.3'

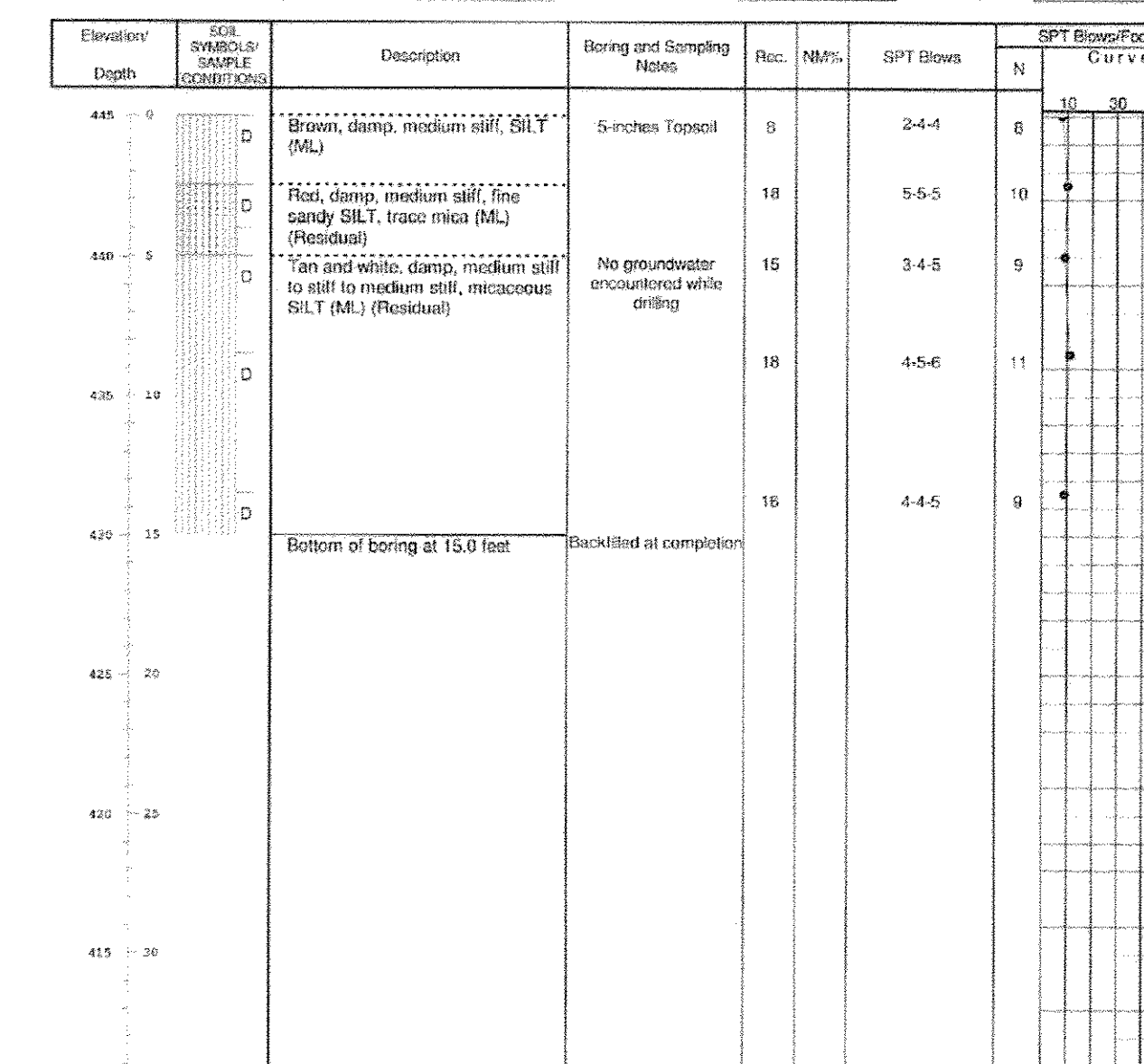
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" O.D. SAMPLER WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wilde Lake Middle School Boring No. SWM-4
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Surf. Elev. 445.00 ft Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/07/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/07/2014



SAMPLER TYPE: DRIVEN SPIGOT UNLESS OTHERWISE NOTED
PT: PRESSED SPIGOT TUBE
CA: CONTINUOUS FLIGHT AUGER
RC: ROCK CORE

SAMPLE CONDITIONS: D: DISTURBED
I: INTACT
U: UNDISTURBED
L: LOST

GROUND WATER: Dry

CAVE IN DEPTH: 10.7'

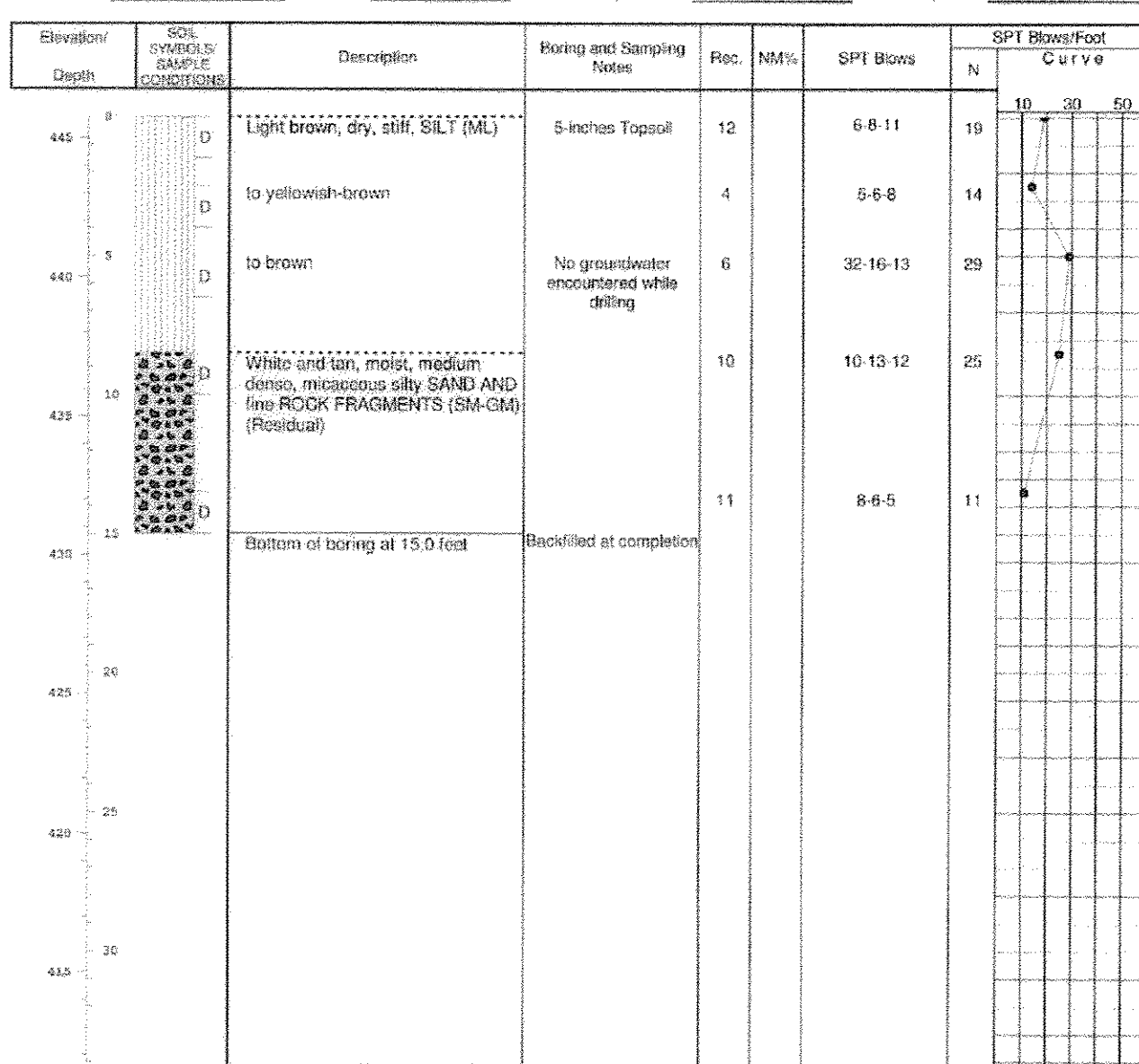
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" O.D. SAMPLER WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wilde Lake Middle School Boring No. SWM-5
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Surf. Elev. 445.76 ft Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/07/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/07/2014



SAMPLER TYPE: DRIVEN SPIGOT UNLESS OTHERWISE NOTED
PT: PRESSED SPIGOT TUBE
CA: CONTINUOUS FLIGHT AUGER
RC: ROCK CORE

SAMPLE CONDITIONS: D: DISTURBED
I: INTACT
U: UNDISTURBED
L: LOST

GROUND WATER: Dry

CAVE IN DEPTH: 10.0'

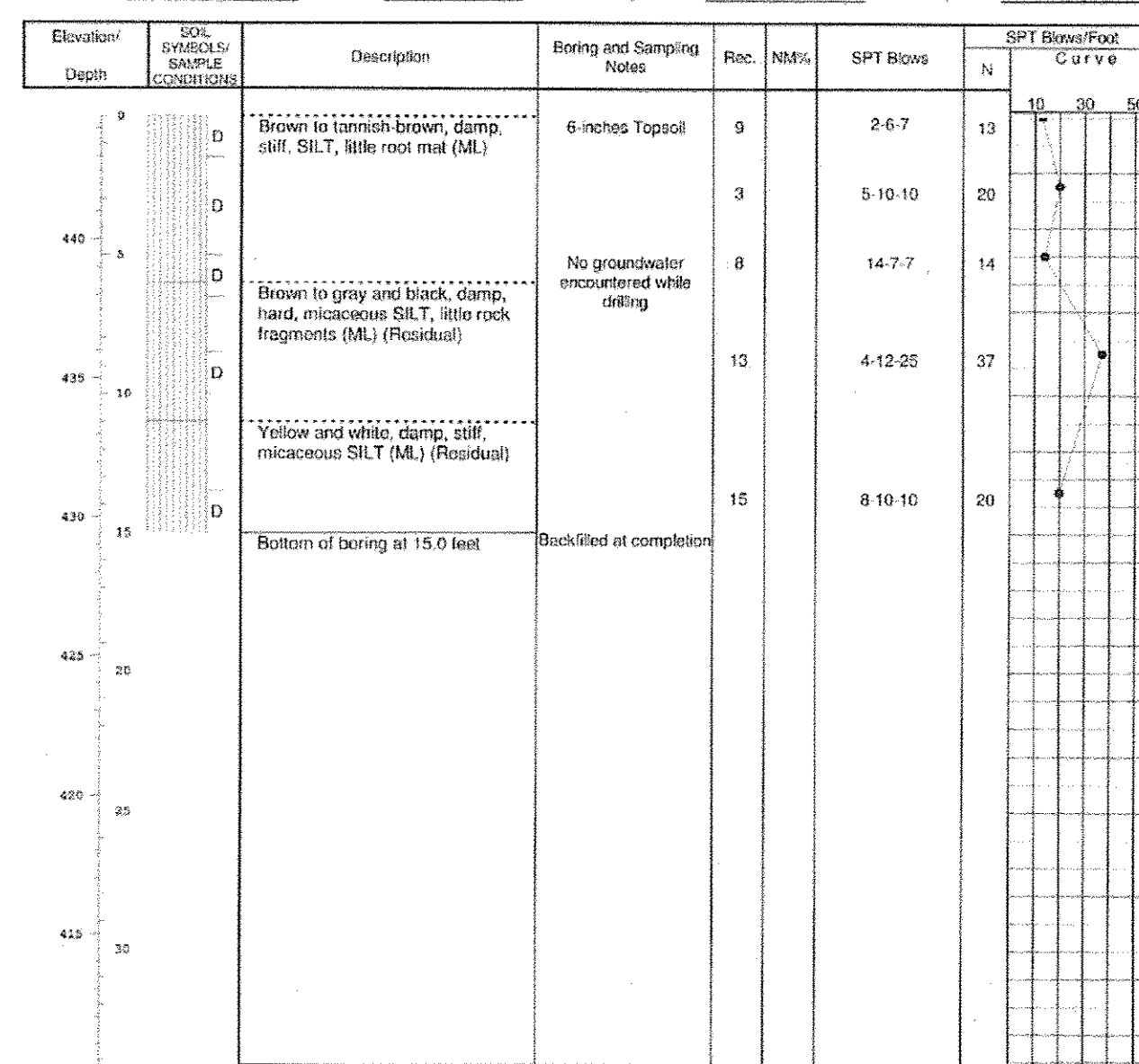
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" O.D. SAMPLER WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wilde Lake Middle School Boring No. SWM-6
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Surf. Elev. 444.45 ft Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 6/30/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 6/30/2014



SAMPLER TYPE: DRIVEN SPIGOT UNLESS OTHERWISE NOTED
PT: PRESSED SPIGOT TUBE
CA: CONTINUOUS FLIGHT AUGER
RC: ROCK CORE

SAMPLE CONDITIONS: D: DISTURBED
I: INTACT
U: UNDISTURBED
L: LOST

GROUND WATER: Dry

CAVE IN DEPTH: 7.7'

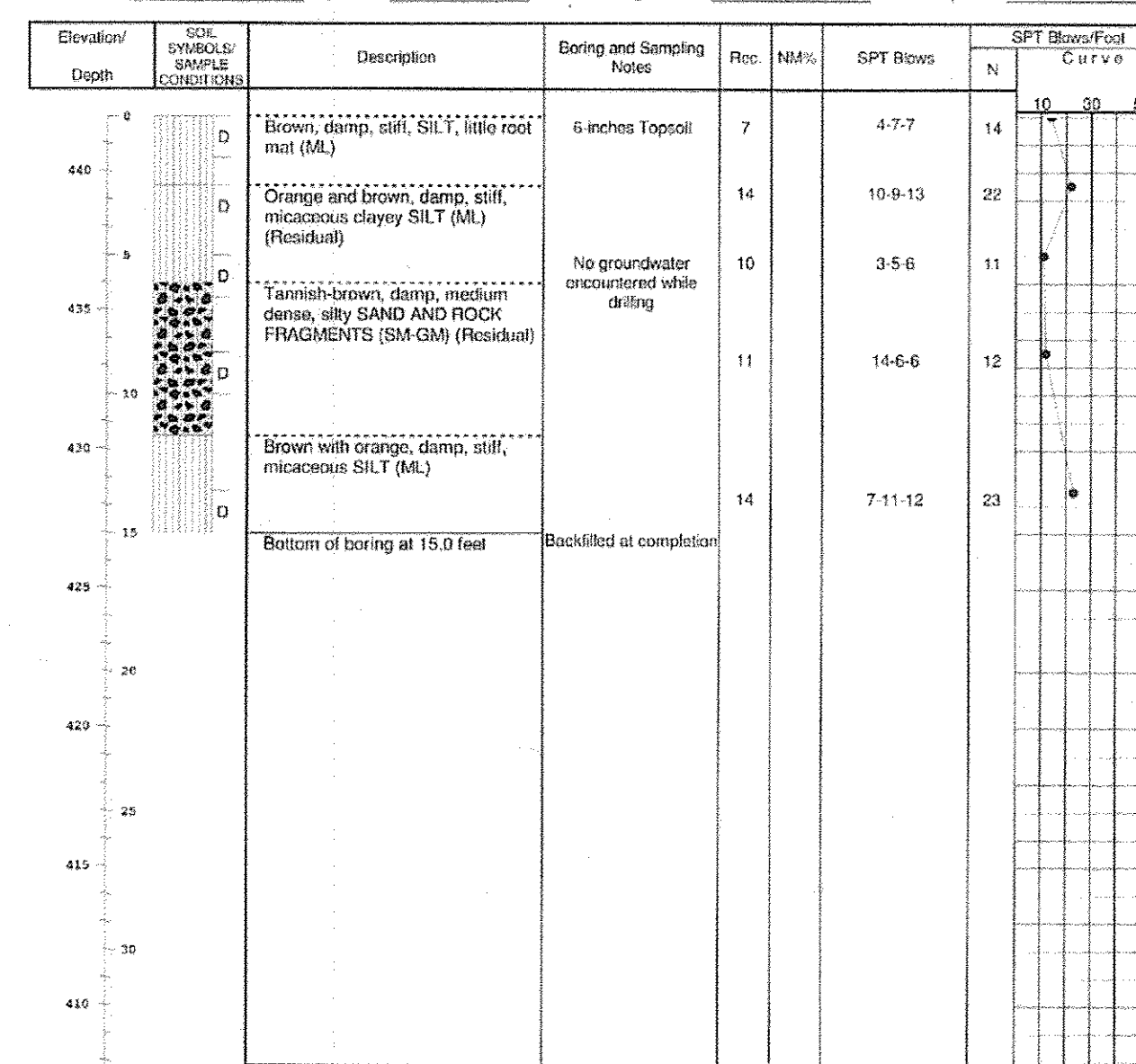
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" O.D. SAMPLER WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wilde Lake Middle School Boring No. SWM-7
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Surf. Elev. 441.95 ft Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 6/30/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 6/30/2014



SAMPLER TYPE: DRIVEN SPIGOT UNLESS OTHERWISE NOTED
PT: PRESSED SPIGOT TUBE
CA: CONTINUOUS FLIGHT AUGER
RC: ROCK CORE

SAMPLE CONDITIONS: D: DISTURBED
I: INTACT
U: UNDISTURBED
L: LOST

GROUND WATER: Dry

CAVE IN DEPTH: 11.4'

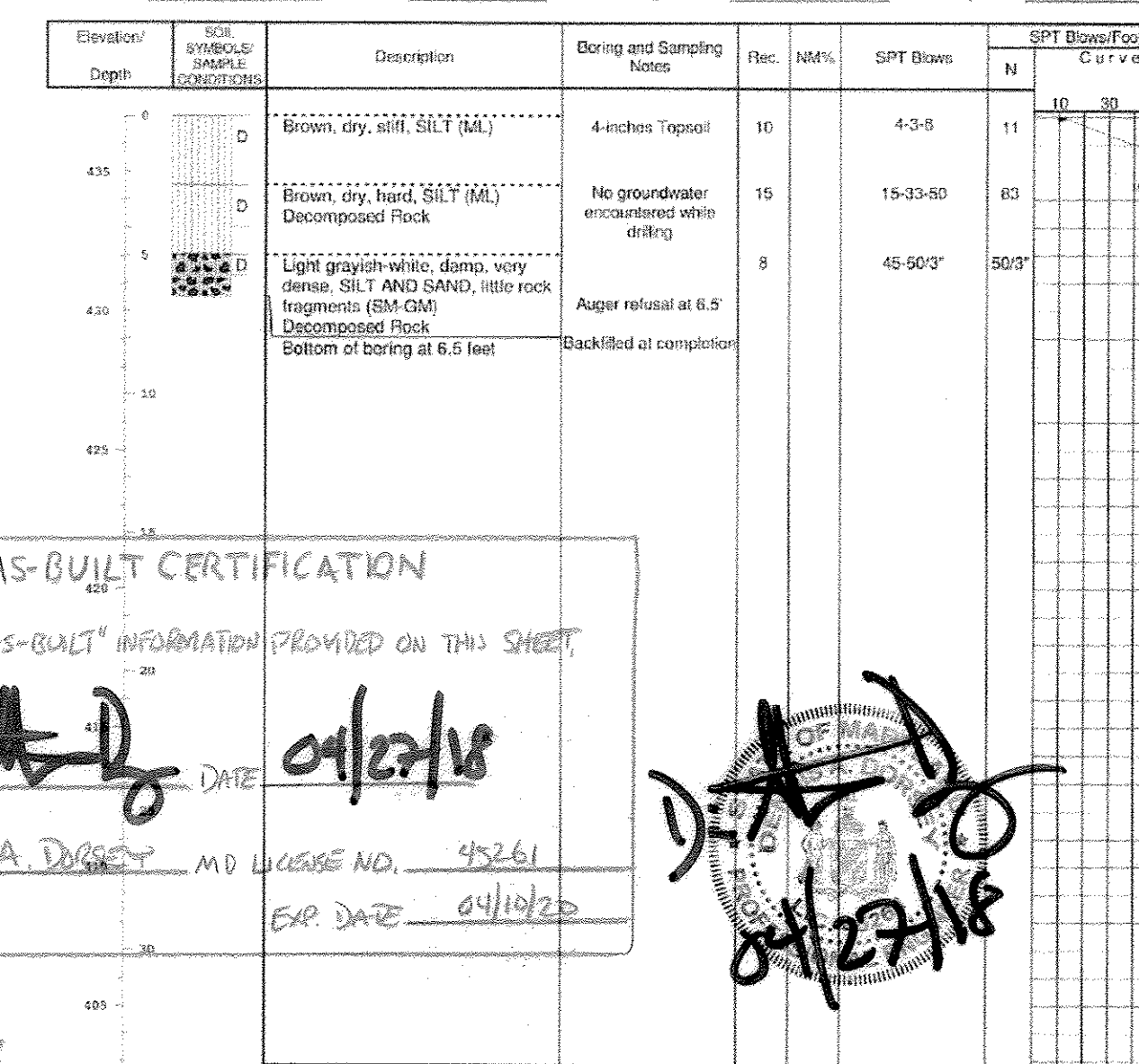
BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" O.D. SAMPLER WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wilde Lake Middle School Boring No. SWM-8
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Surf. Elev. 437.04 ft Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/02/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/02/2014



SAMPLER TYPE: DRIVEN SPIGOT UNLESS OTHERWISE NOTED
PT: PRESSED SPIGOT TUBE
CA: CONTINUOUS FLIGHT AUGER
RC: ROCK CORE

SAMPLE CONDITIONS: D: DISTURBED
I: INTACT
U: UNDISTURBED
L: LOST

GROUND WATER: Dry

CAVE IN DEPTH: 5.5'

BORING METHOD: HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST - DRIVING 2" O.D. SAMPLER WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

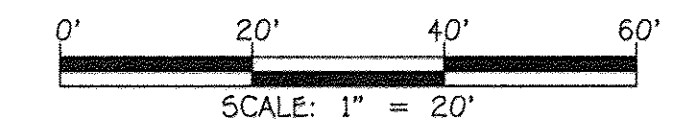
SIGNATURE: *D.A.D.* DATE: 04/27/15

NAME: DENNIS A. DORSET MD LICENSE NO. 45261 EXP. DATE: 04/10/20

D.A.D.

FALCON Solutions
201 Defense Highway, Suite 200
Annapolis, MD 21401
ph 410.274.3232

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
4101 461 - 2000



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

"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. 13204. Expiration Date: November 3, 2016."

Charles J. Casvo
CHARLES J. CASVO, SR., P.E.
1/10/15 DATE

DATE	DESCRIPTION	REVISION BLOCK
11/21/10	REVISE SHEET NUMBER	
3/11/15	REVISE SHEET NUMBER	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
William A. Macken
Director - Department of Planning and Zoning
Ke T. Schaefer
Chief, Division of Land Development
Chf. Ed.
Chief, Development Engineering Division

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA
WILDE LAKE MIDDLE SCHOOL	11/1
PLAT NOS.	BLOCK NO.
23161-23163 L15/F.90&91	24.6
WATER CODE	SEWER CODE
E-30	5523900

AS-Built BORING LOGS

VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY 30, 2015

SHEET 17 OF 54

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wild Lake Middle School Boring No. SWM-9
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Start Elev. 457.59 ft. Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/02/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/02/2014

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONCENTRATIONS	Description	Boring and Sampling Notes	Rec.	N.B.T.	SPT Blows/Feet	
						N	Curve
0		Tanish-brown, dry to damp, silt to medium silt, micaceous SILT, little sand (ML) (Residual)	6 inches Topsoil	13		3-8-10	10
4.5				15		5-6-6	11
9			No groundwater encountered while drilling	18		5-5-5	10
13.5		Light gray sand brown, damp, silt to medium silt, micaceous SILT (ML) (Residual)		18		3-4-7	11
15		Bottom of boring at 15.0 feet	Backfilled at completion	12		4-4-4	8

SAMPLER TYPE DRIVEN SPLIT SPIGON UNLESS OTHERWISE NOTED SAMPLE CONDITIONS D - DISTURBED AT COMPLETION AFTER 24 HRS. GROUND WATER IN CAVE IN DEPTH 11.5' BORING METHOD HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE I - INTACT AFTER 24 HRS. II - CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER U - UNDISTURBED AFTER ____ HRS. III - CFA - CONTINUOUS FLIGHT AUGERS
RC - ROCK CORE L - LOST MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" O.D. SAMPLER 1" WITH 140 LB HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wild Lake Middle School Boring No. SWM-10
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Start Elev. 456.65 ft. Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/02/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/02/2014

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONCENTRATIONS	Description	Boring and Sampling Notes	Rec.	N.B.T.	SPT Blows/Feet	
						N	Curve
0		Light grayish tan, medium dense to very dense, silty SAND AND fine ROCK FRAGMENTS (SM-GM) (Residual) Decomposed Rock below 2 ft	6 inches Topsoil	10		2-8-20	28
4.5			No groundwater encountered while drilling	4		50'4"	50'4"
8.5				6		50'6"	50'6"
10		Bottom of boring at 7.0 feet	Auger refusal at 7.0'				
10			Backfilled at completion				

SAMPLER TYPE DRIVEN SPLIT SPIGON UNLESS OTHERWISE NOTED SAMPLE CONDITIONS D - DISTURBED AT COMPLETION AFTER 24 HRS. GROUND WATER IN CAVE IN DEPTH 6.3' BORING METHOD HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE I - INTACT AFTER 24 HRS. II - CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER U - UNDISTURBED AFTER ____ HRS. III - CFA - CONTINUOUS FLIGHT AUGERS
RC - ROCK CORE L - LOST MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" O.D. SAMPLER 1" WITH 140 LB HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wild Lake Middle School Boring No. SWM-11
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Start Elev. 458.11 ft. Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/02/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/02/2014

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONCENTRATIONS	Description	Boring and Sampling Notes	Rec.	N.B.T.	SPT Blows/Feet	
						N	Curve
0		Brown, damp, medium silt, SILT, little root mat (ML)	5 inches Topsoil	9		3-4-6	10
4.5				13		5-7-8	15
9		Orange-brown, damp, silt to medium silt, micaceous SILT, little sand (ML) (Residual)		15		4-5-5	10
13.5			No groundwater encountered while drilling	14		3-4-5	9
14		Yellow, tan and brown, moist, medium silt, micaceous SILT (ML) (Residual)		14		3-4-5	9
14		to grayish-brown and white		14		4-4-4	8
15		Bottom of boring at 15.0 feet	Backfilled at completion				

SAMPLER TYPE DRIVEN SPLIT SPIGON UNLESS OTHERWISE NOTED SAMPLE CONDITIONS D - DISTURBED AT COMPLETION AFTER 24 HRS. GROUND WATER IN CAVE IN DEPTH 8.5' BORING METHOD HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE I - INTACT AFTER 24 HRS. II - CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER U - UNDISTURBED AFTER ____ HRS. III - CFA - CONTINUOUS FLIGHT AUGERS
RC - ROCK CORE L - LOST MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" O.D. SAMPLER 1" WITH 140 LB HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

HILLIS - CARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Project Name Wild Lake Middle School Boring No. SWM-12
Location Columbia, Maryland Job # 14266A

Date MSL Hammer Wt. 140 lbs. Hole Diameter 6" Foreman M. Voelker
Start Elev. 449.92 ft. Hammer Drop 30 in. Rock Core Diameter N/A Inspector N/A
Date Started 7/02/2014 Pipe Size 2.0 in. Boring Method HSA Date Completed 7/02/2014

Elevation/Depth	SOIL SYMBOLS/SAMPLE CONCENTRATIONS	Description	Boring and Sampling Notes	Rec.	N.B.T.	SPT Blows/Feet	
						N	Curve
0		Brown, damp, medium silt, SILT, little root mat (ML)	5 inches Topsoil	11		3-4-6	10
4.5				13		4-4-5	9
9		Brown to golden-dark brown, damp, medium silt, micaceous SILT (ML) (Residual)		15		4-4-4	8
13.5			No groundwater encountered while drilling	16		3-4-5	9
14				16		3-4-5	9
14		Bottom of boring at 15.0 feet	Backfilled at completion				

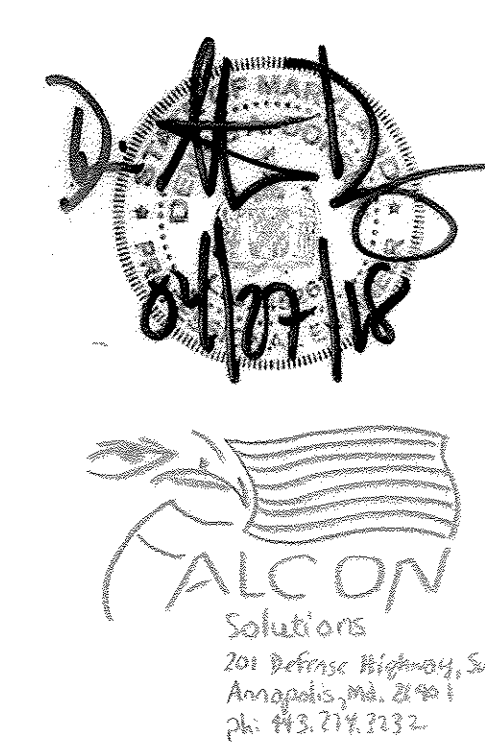
SAMPLER TYPE DRIVEN SPLIT SPIGON UNLESS OTHERWISE NOTED SAMPLE CONDITIONS D - DISTURBED AT COMPLETION AFTER 24 HRS. GROUND WATER IN CAVE IN DEPTH 8.5' BORING METHOD HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE I - INTACT AFTER 24 HRS. II - CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER U - UNDISTURBED AFTER ____ HRS. III - CFA - CONTINUOUS FLIGHT AUGERS
RC - ROCK CORE L - LOST MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" O.D. SAMPLER 1" WITH 140 LB HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

AS-BUILT CERTIFICATION

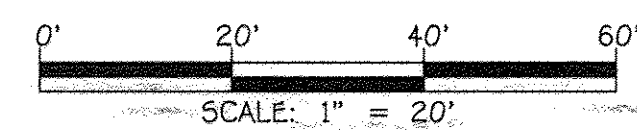
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

SIGNATURE D. A. DORSEY DATE 01/27/16
NAME DENNIS A. DORSEY MD LICENSE NO. 45261
EXP. DATE 04/10/20



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - 10272 BALDORRE NATIONAL FIVE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2200



"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. 13204, Expiration Date: November 3, 2016."

Charles J. Crovo, Sr., P.E. 1/27/15
DATE

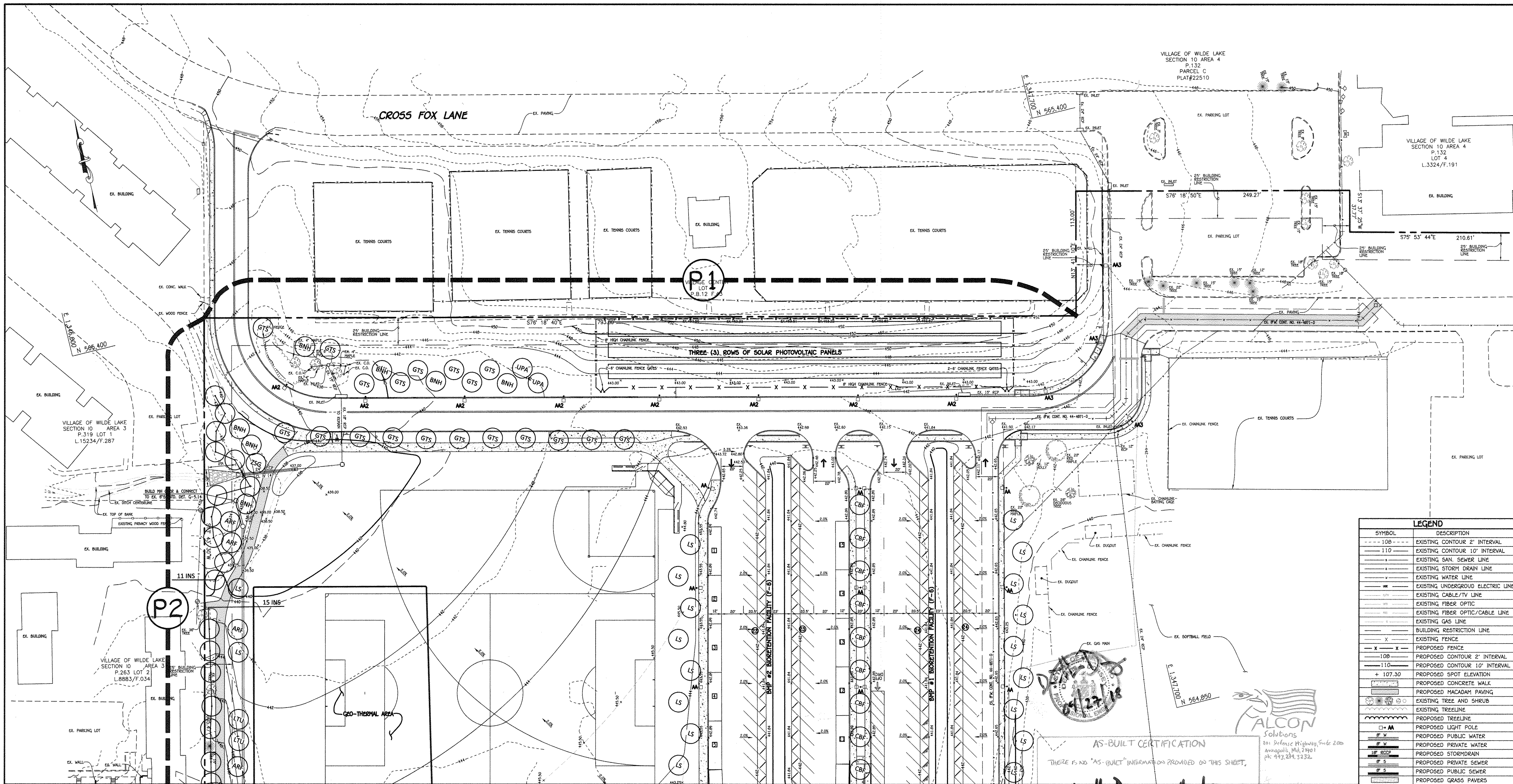
11/21/10	REVISE SHEET NUMBER
3/11/15	REVISE SHEET NUMBER
DATE	DESCRIPTION
REVISION BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<u>William A. Mackay Jr.</u>	2-11-15
Director - Department of Planning and Zoning	Date
<u>Keith Schaefer</u>	2-11-15
Chief, Division of Land Development	Date
<u>John Schaefer</u>	2-5-15
Chief, Development Engineering Division	Date

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart	
Parcel Number	Street Address
280	10401 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA
WILDE LAKE MIDDLE SCHOOL	11/1
PLAT NOS.	BLOCK NO.
23161-23163 L15/F.90&91	24,6
ZONE	TAX MAP
NT	29,35
ELEC. DIST.	CENSUS TR.
FIFTH	6054
WATER CODE	SEWER CODE
E-30	5523900

AS-BUILT BORING LOGS	
VILLAGE OF WILDE LAKE SECTION 11 AREA 1 LOT 1 WILDE LAKE MIDDLE SCHOOL	
ZONED: NT	PARCEL No.: 280
TAX MAP No.: 29	GRID No.: 24
TAX MAP No.: 35	GRID No.: 6
FIFTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN	DATE: JANUARY 30, 2015
SHEET 18 OF 54	



LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	BUILDING RESTRICTION LINE
---	EXISTING FENCE
---	PROPOSED FENCE
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED LIGHT POLE
---	PROPOSED PUBLIC WATER
---	PROPOSED PRIVATE WATER
---	PROPOSED STORMDRAIN
---	PROPOSED PRIVATE SEWER
---	PROPOSED PUBLIC SEWER
---	PROPOSED GRASS PAVERS

FOR CONTINUATION SEE SHEET 20

PLAN
SCALE: 1" = 40'

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *[Signature]* DATE: 04/27/18
NAME: DEWIS A. DORSEY MD LICENSE NO. 45261 EXP. DATE: 04/10/20

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10776 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21142
(410) 461-2295

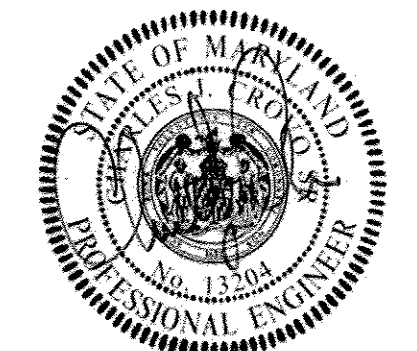
"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204 Expiration Date: November 3, 2016."
[Signature]
CHARLES J. BOVO, SR., P.E. DATE: 1/27/15

DATE	REVISION SHEET NUMBER	DESCRIPTION
11/21/10	REVISION SHEET NUMBER	
9/11/10	REVISION SHEET NUMBER	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director - Department of Planning and Zoning
Chief, Division of Land Development
Chief, Development Engineering Division

2-11-15
2-11-15
2-5-19

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart	
Parcel Number	Street Address
280	10401 CROSS FOX LANE COLUMBIA, MD 21044

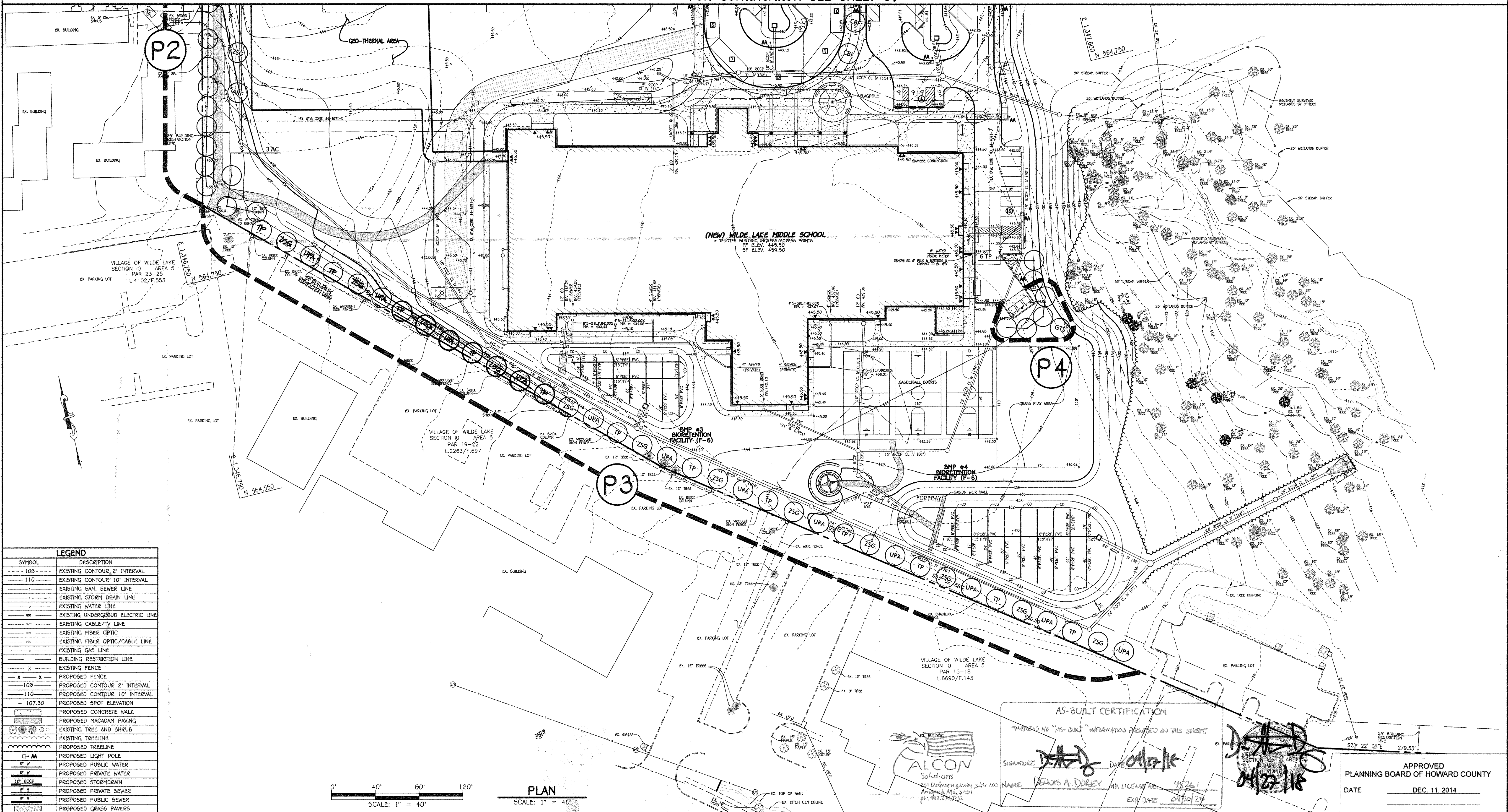
PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L-15/F-90&91	24,6	NT	29,35	FIFTH	6054

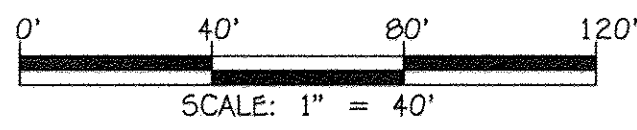
WATER CODE	SEWER CODE
E-30	5523900

AS-BUILT LANDSCAPE PLAN
VILLAGE OF WILDE LAKE
SECTION 10 AREA 4
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: JANUARY 30, 2015
SHEET 19 OF 54

FOR CONTINUATION SEE SHEET 19



LEGEND	
SYMBOL	DESCRIPTION
--- 100 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	BUILDING RESTRICTION LINE
X	EXISTING FENCE
X - X	PROPOSED FENCE
--- 100 ---	PROPOSED CONTOUR 2' INTERVAL
--- 110 ---	PROPOSED CONTOUR 10' INTERVAL
+ 107.30	PROPOSED SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
MA	PROPOSED LIGHT POLE
P W	PROPOSED PUBLIC WATER
P W	PROPOSED PRIVATE WATER
16" ROOP	PROPOSED STORMDRAIN
P S	PROPOSED PRIVATE SEWER
P S	PROPOSED PUBLIC SEWER
---	PROPOSED GRASS PAVERS



PLAN
SCALE: 1" = 40'

AS-BUILT CERTIFICATION
THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: [Signature] DATE: 04/27/16
NAME: DEWIS A. DORSEY M.D. LICENSE NO. 48261 EXP. DATE: 04/10/29

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

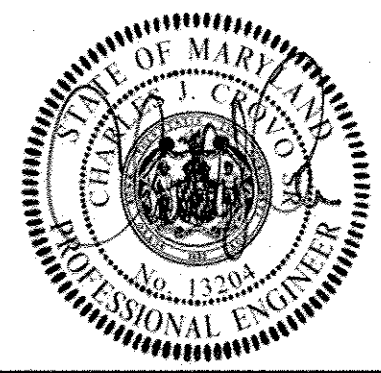
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21044
(410) 461-2000

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. 13204, Expiration Date: November 3, 2016.
[Signature] 1/27/15
CHARLES J. CROVO, SR., P.E. DATE

DATE	DESCRIPTION	REVISION BLOCK
11/21/16	REMOVE RETAINING WALL, REMOVE ASPHALT, LANDSCAPING & SHEET NUMBER	
3/11/19	REVISE SHEET NUMBER	
		2-11-15 Date
		2-11-15 Date
		2-5-15 Date

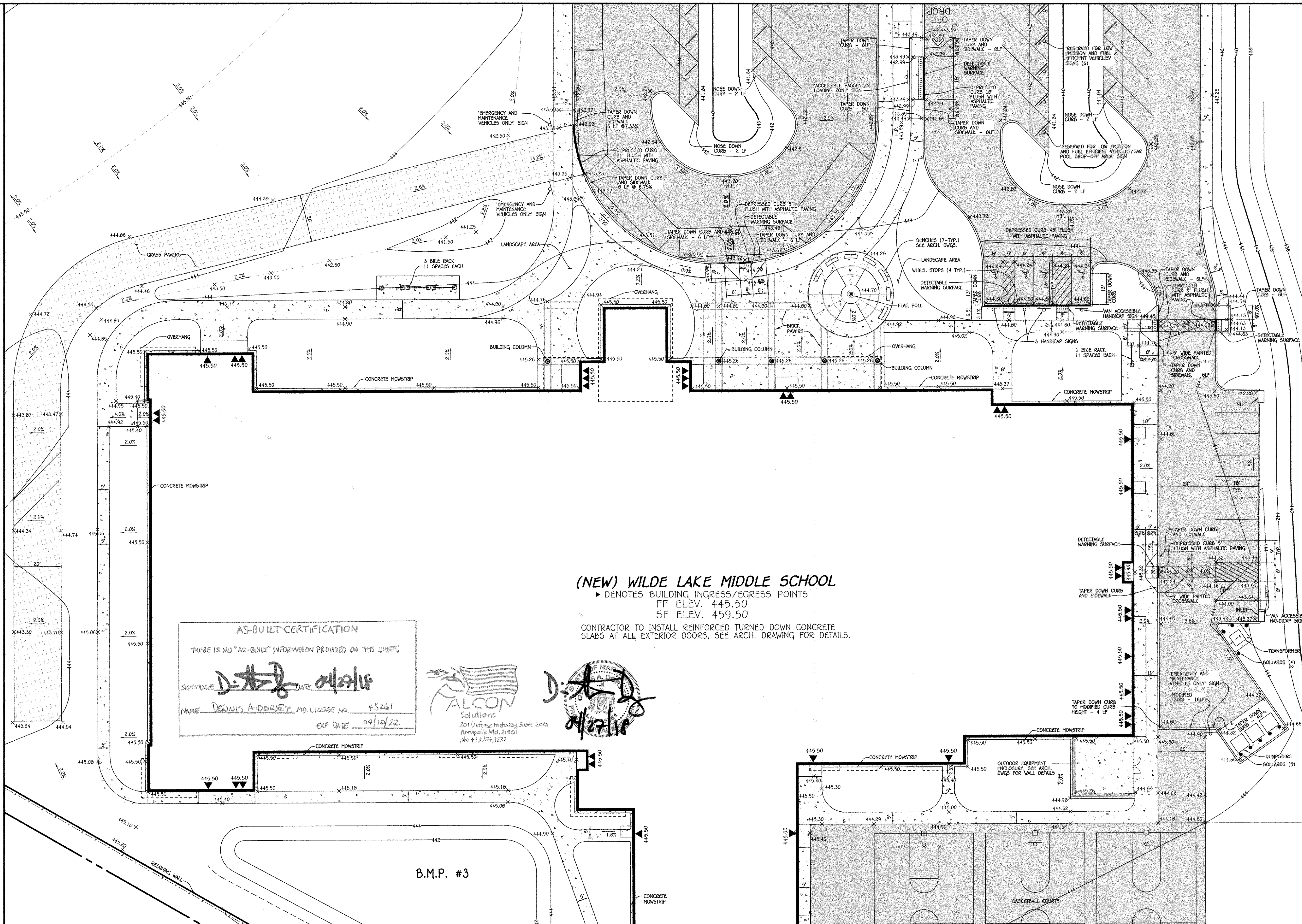
APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 2-11-15
Date
[Signature] 2-11-15
Date
[Signature] 2-5-15
Date

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart	
Parcel Number	Street Address
280	10401 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA
WILDE LAKE MIDDLE SCHOOL	11/1
PLAT NOS. 23161-23163 L.15/F.90&91	BLOCK NO. 24.6
	ZONE NT
	TAX MAP 29.35
	ELEC. DIST. FIFTH
	CENSUS TR. 6054
WATER CODE E-30	SEWER CODE 5523900

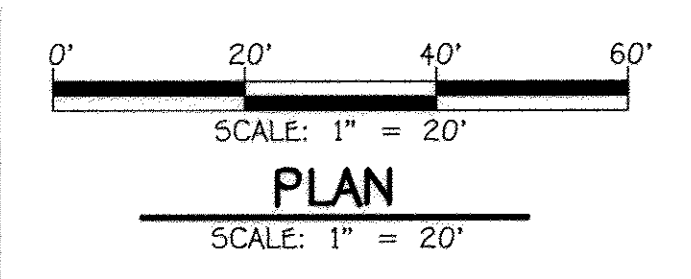
As-Built LANDSCAPE PLAN
VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: JANUARY 30, 2015
SHEET 20 OF 54



(NEW) WILDE LAKE MIDDLE SCHOOL
 ▶ DENOTES BUILDING INGRESS/EGRESS POINTS
 FF ELEV. 445.50
 SF ELEV. 459.50
 CONTRACTOR TO INSTALL REINFORCED TURNED DOWN CONCRETE
 SLABS AT ALL EXTERIOR DOORS, SEE ARCH. DRAWING FOR DETAILS.

AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE: *D. A. D.* DATE: 04/27/15
 NAME: DENNIS ANDRZEJCZAK MD LICENSE NO. 45261
 EXP. DATE: 04/10/22

FALCON Solutions
 201 Defense Highway Suite 2000
 Annapolis, Md. 21401
 PH: 410.274.3232
 SIGNATURE: *D. A. D.* DATE: 04/27/15



LEGEND

SYMBOL	DESCRIPTION
100	PROPOSED CONTOUR 2' INTERVAL
110	PROPOSED CONTOUR 10' INTERVAL
+ 107.30	PROPOSED SPOT ELEVATION
[Pattern]	PROPOSED CONCRETE WALK
[Pattern]	PROPOSED MACADAM PAVING
[Pattern]	PROPOSED GRASS PAVERS

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

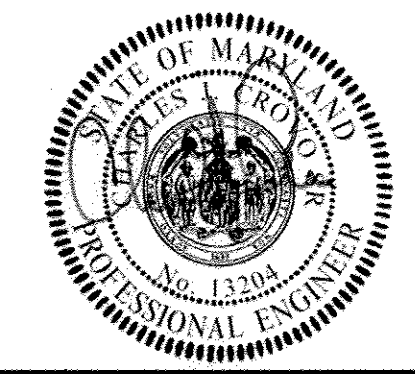
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SOURCE OFFICE PARK - 10272 BALDORRE NATIONAL FIVE
 ELICOTT CITY, MARYLAND 21042
 410.461.0299

"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. 13204, Expiration Date: November 3, 2016."

SIGNATURE: *Charles J. Crovo* DATE: 1/27/15
 CHARLES J. CROVO, SR., P.E.

DATE	DESCRIPTION	REVISION BLOCK
11/21/16	REVISE SHEET NUMBER	
3/11/18	REVISE SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
SIGNATURE: <i>William A. Mosley</i> DATE: 2-11-15		
Director - Department of Planning and Zoning		
SIGNATURE: <i>Scott S. O'Connell</i> DATE: 2-11-15		
Chief, Division of Land Development		
SIGNATURE: <i>Charles J. Crovo</i> DATE: 2-5-15		
Chief, Development Engineering Division		

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TURMAN BUILDING
 8045 HARRIET TURMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart

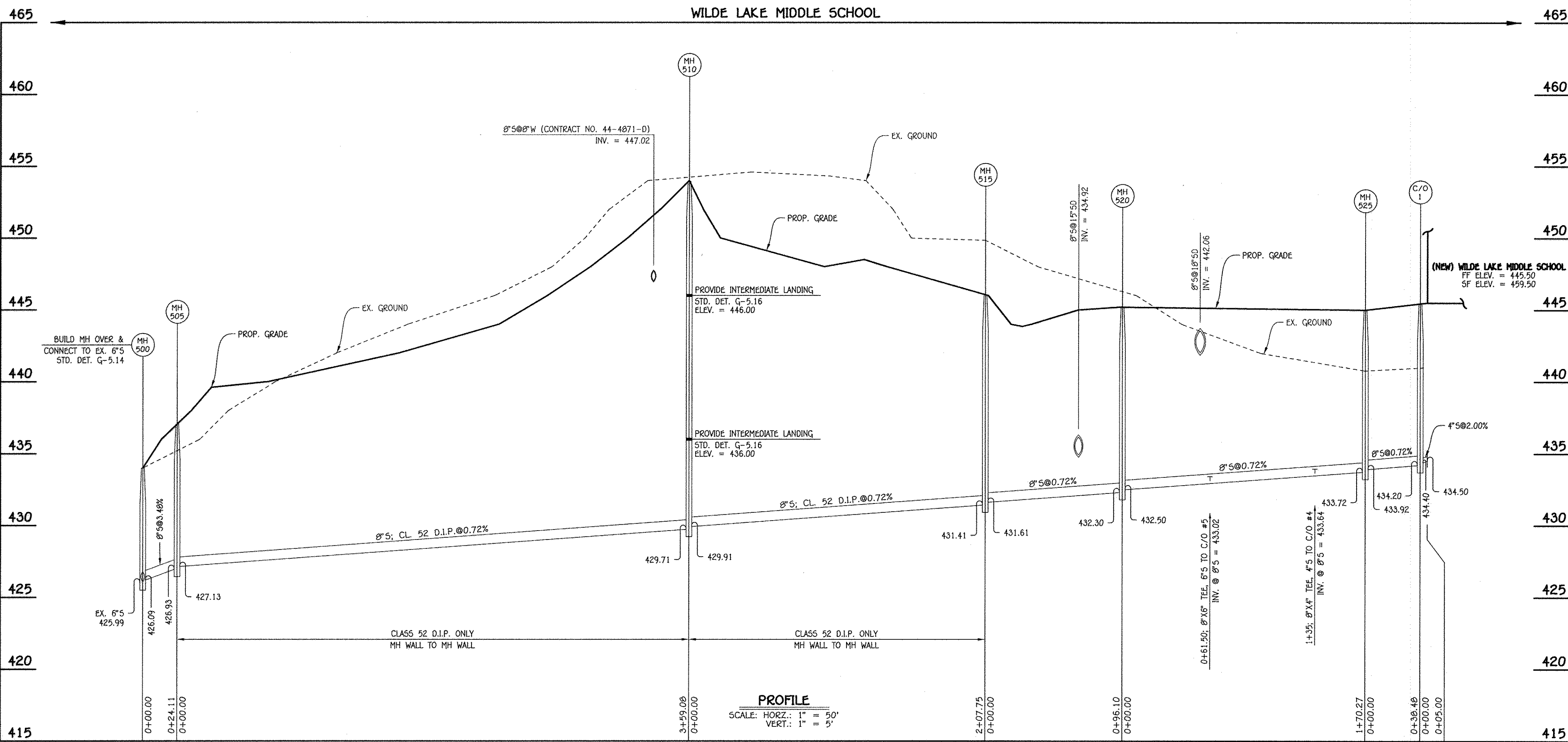
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11 / 1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24,6	NT	29,35	FIFTH	6054

WATER CODE	SEWER CODE
E-30	S523900

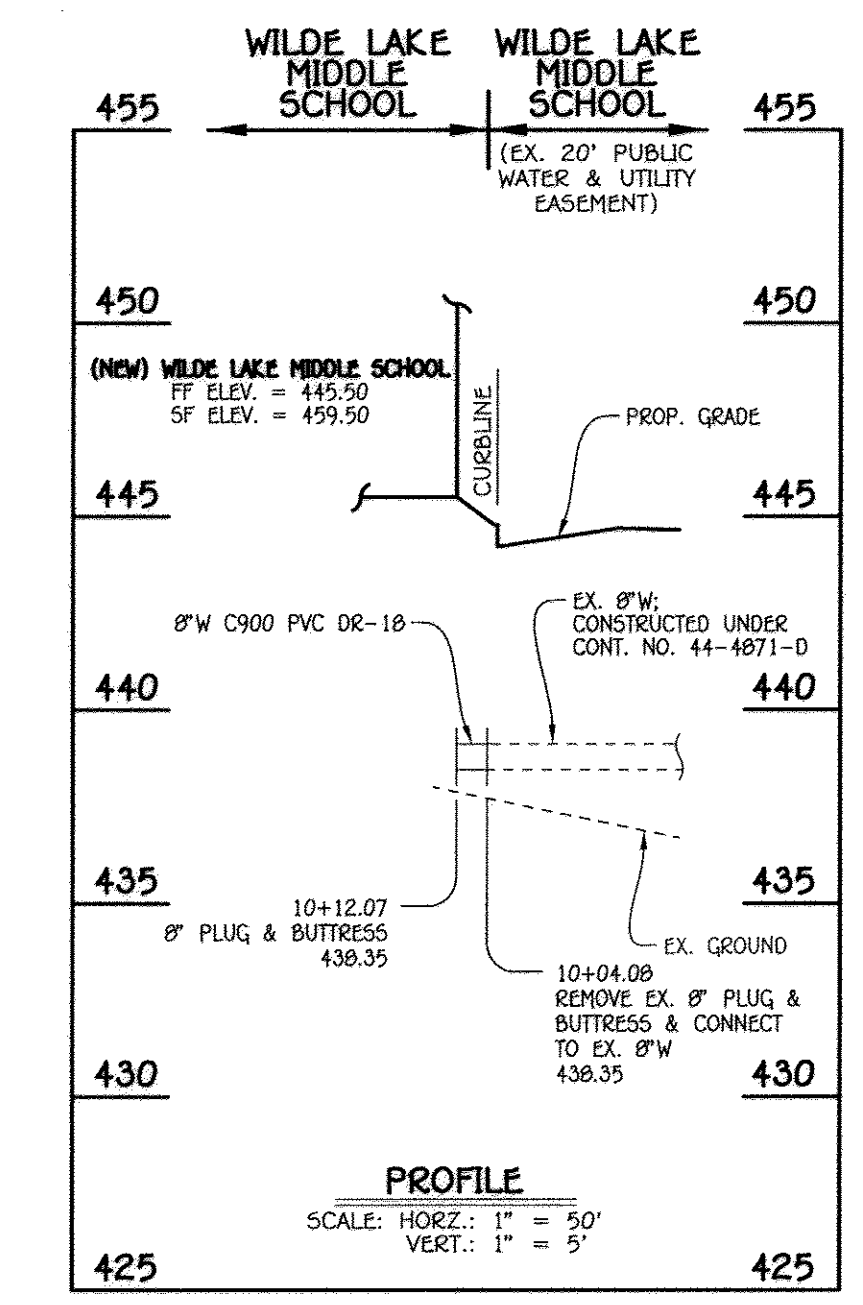
HANDICAP ACCESS PLAN
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 WILDE LAKE MIDDLE SCHOOL
 LOT 1
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 20' DATE: JANUARY 30, 2015
 SHEET 22 OF 54



8" SEWER MAIN: WILDE LAKE MIDDLE SCHOOL

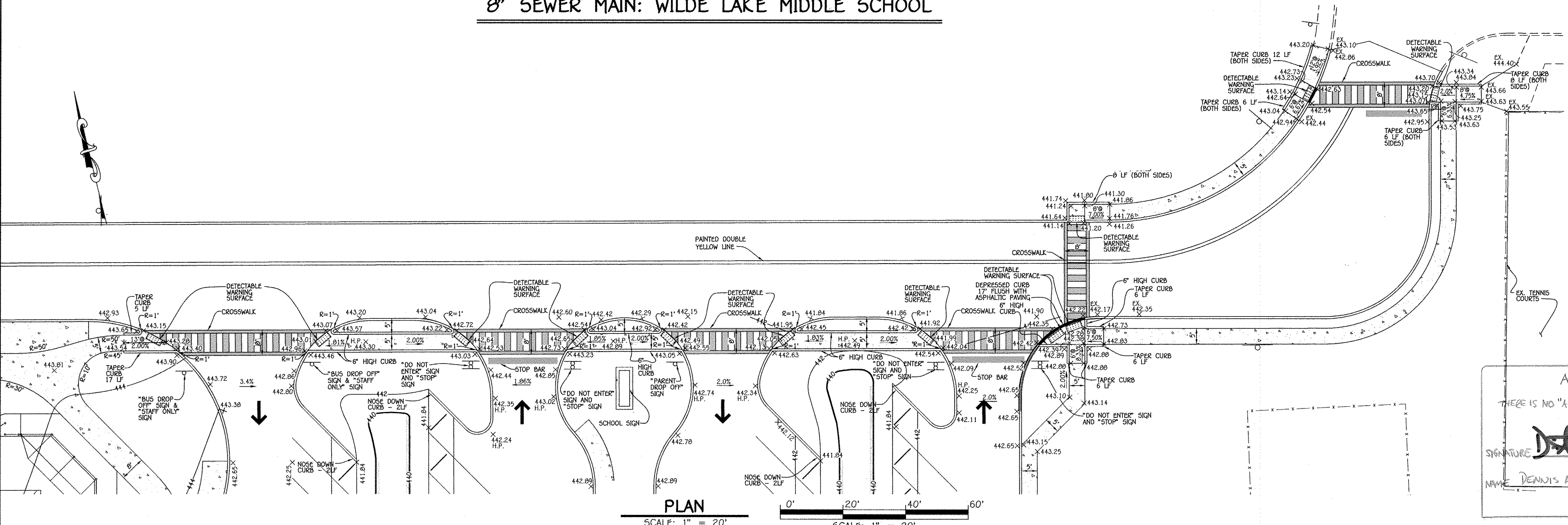
MANHOLE AND CLEAN-OUT TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
500	565237.12	1346913.36	434.00
505	565213.01	1346913.82	437.50
510	564864.21	1346828.53	453.96
515	564695.24	1346949.40	446.06
520	564629.20	1347019.22	445.20
525	564587.98	1347184.42	445.00
C/O 1	564559.23	1347210.01	445.42
C/O 2	564536.63	1347302.80	444.93
C/O 3	564573.71	1347311.83	445.40
C/O 4	564617.68	1347155.30	445.40
C/O 5	564634.38	1347083.90	445.40

NOTE: SET MH RIMS & C/O TOPS FLUSH W/PROPOSED GRADE.



8" WATER MAIN: WILDE LAKE MIDDLE SCHOOL

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: WILDE LAKE MIDDLE SCHOOL			
10+04.08	EX. 8" PLUG & BUTTRESS	564605.55	1347452.88
10+12.07	8" PLUG & BUTTRESS	564607.44	1347445.12



PLAN
SCALE: 1" = 20'

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *Denais A. Dorsey* DATE: 04/23/18
NAME: DENAIS A. DORSEY MD. LICENSE NO. 45261 EXP. DATE: 04/10/20

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALDORNE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 481-2895

"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. 13204, Expiration Date: November 3, 2016."

CHARLES J. GROVO, SR., P.E.
1/27/15 DATE

DATE	DESCRIPTION
1/21/16	REVISION SHEET NUMBER
9/11/15	REVISION SHEET NUMBER
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>William A. Mackay</i>	2-11-15 DATE
Director - Department of Planning and Zoning	
<i>W. J. ...</i>	2-11-15 DATE
Chief, Division of Land Development	
<i>...</i>	2-5-15 DATE
Chief, Development Engineering Division	

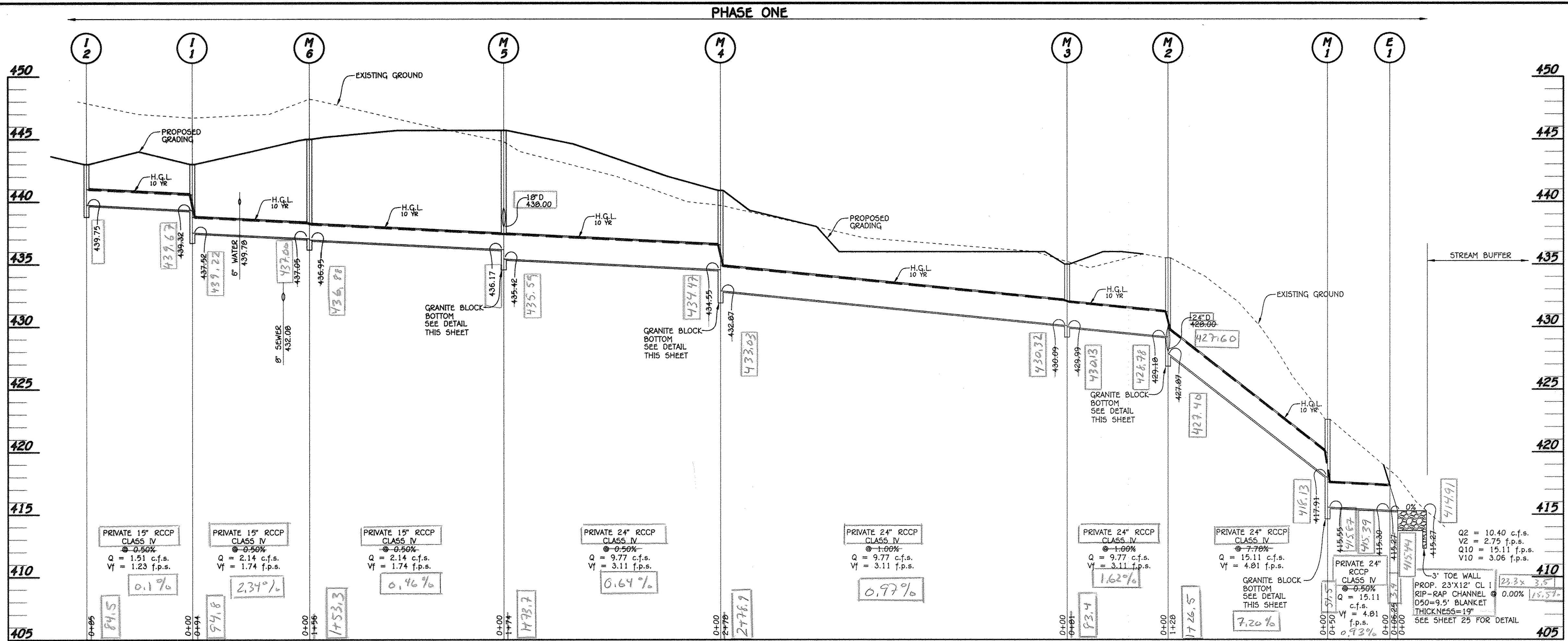
PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



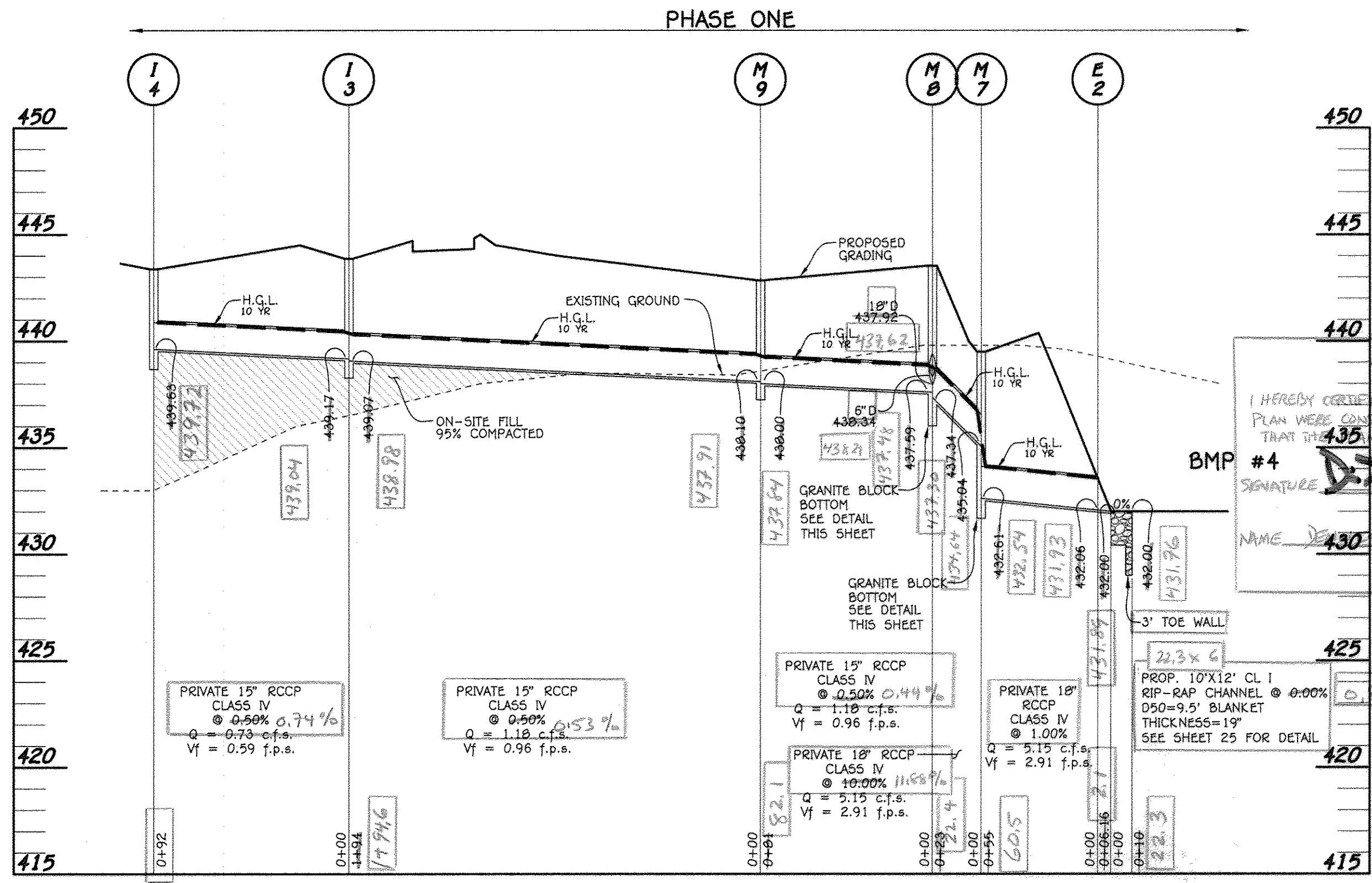
Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA
WILDE LAKE MIDDLE SCHOOL	11/1
PARCEL	280
PLAT NOS.	BLOCK NO.
23161-23163 L-15/F-90&91	24.6
WATER CODE	SEWER CODE
E-30	5523900

PRIVATE SEWER & WATER MAINS: PROFILES AND CHARTS & HANDICAP ACCESS RAMP

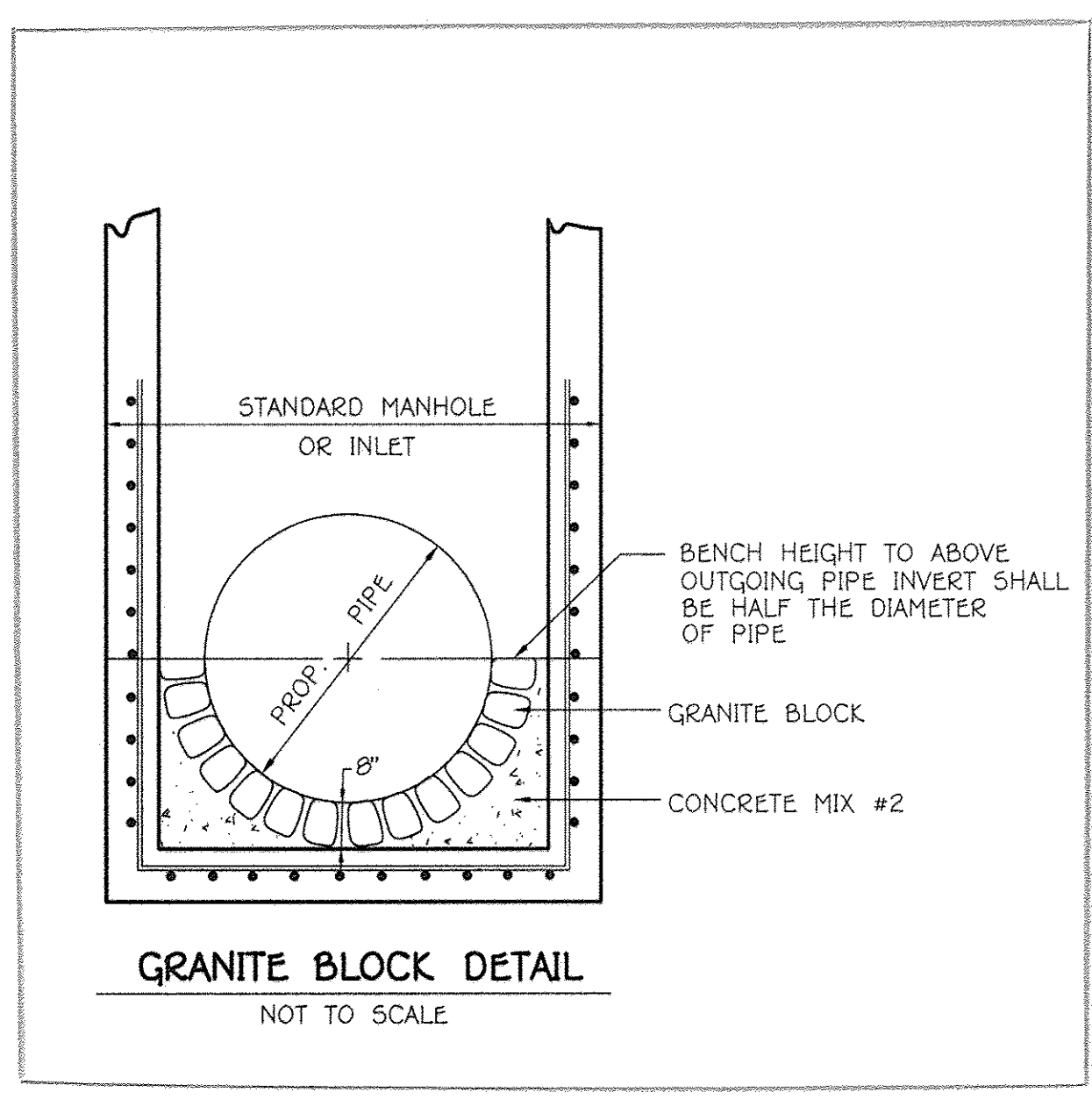
AS-BUILT VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY 30, 2015
SHEET 23 OF 54



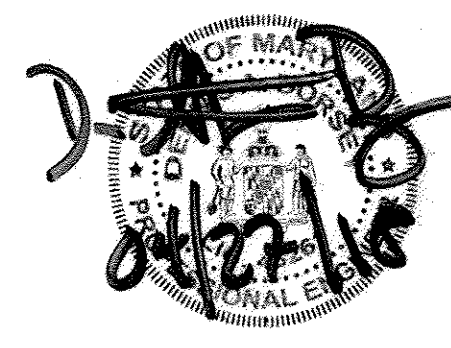
PROFILE
SCALE: HORIZ. : 1" = 50'
VERT. : 1" = 5'



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



AS-BUILT CERTIFICATION
I HEREBY CERTIFY BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND THAT THEY MEET THE APPROVED PLAN AND SPECIFICATIONS.
SIGNATURE: *[Signature]* DATE: 04/27/18
NAME: JASON A. DUNSEY, MD. LICENSE NO. 45261
EXP. DATE: 09/19/20



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL PIKE
ELICOTT CITY, MARYLAND 21114
(410) 461-1200

"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. 13204, Expiration Date: November 3, 2016."
[Signature]
CHARLES J. CROGG, SR., P.E. DATE: 1/17/15

DATE	DESCRIPTION	REVISION BLOCK
11/21/10	REVISION SHEET NUMBER	
9/11/10	REVISION SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	Director - Department of Planning and Zoning	2-11-15
<i>[Signature]</i>	Chief, Division of Land Development	2-11-15
<i>[Signature]</i>	Chief, Development Engineering Division	2-5-15

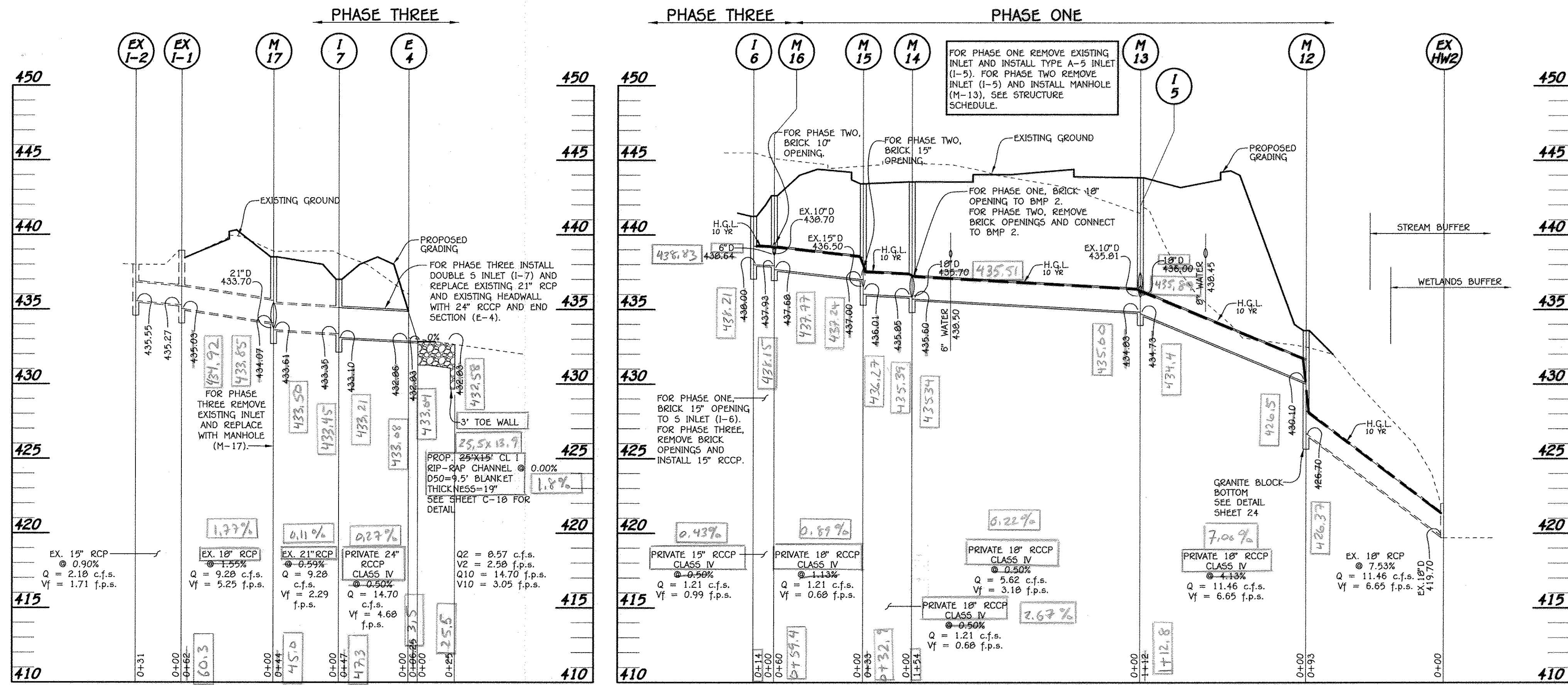
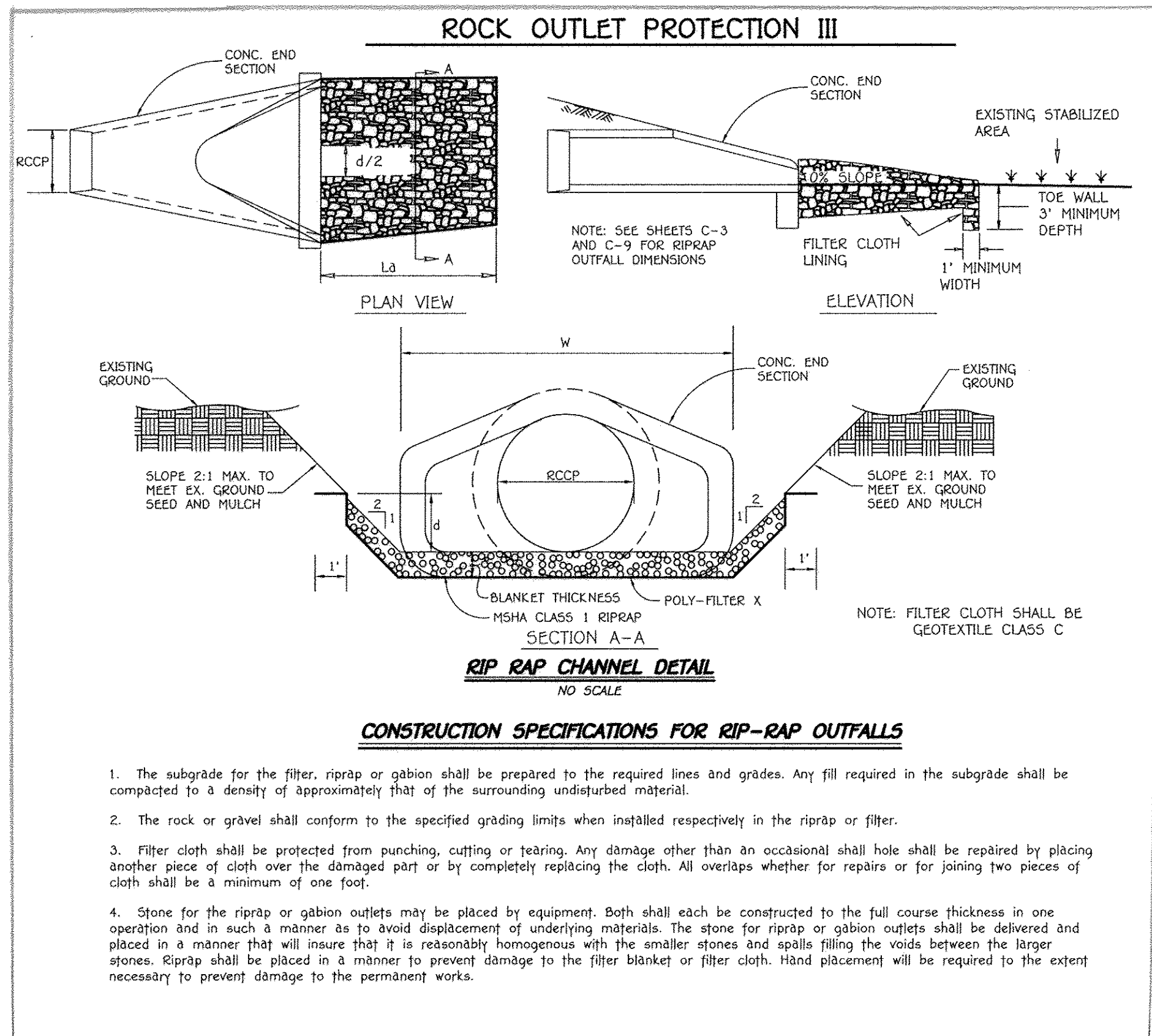
PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA	PARCEL			
WILDE LAKE MIDDLE SCHOOL	11/1	280			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.908&91	24.6	NT	29.35	FIFTH	6054
WATER CODE	SEWER CODE				
E-30	5523900				

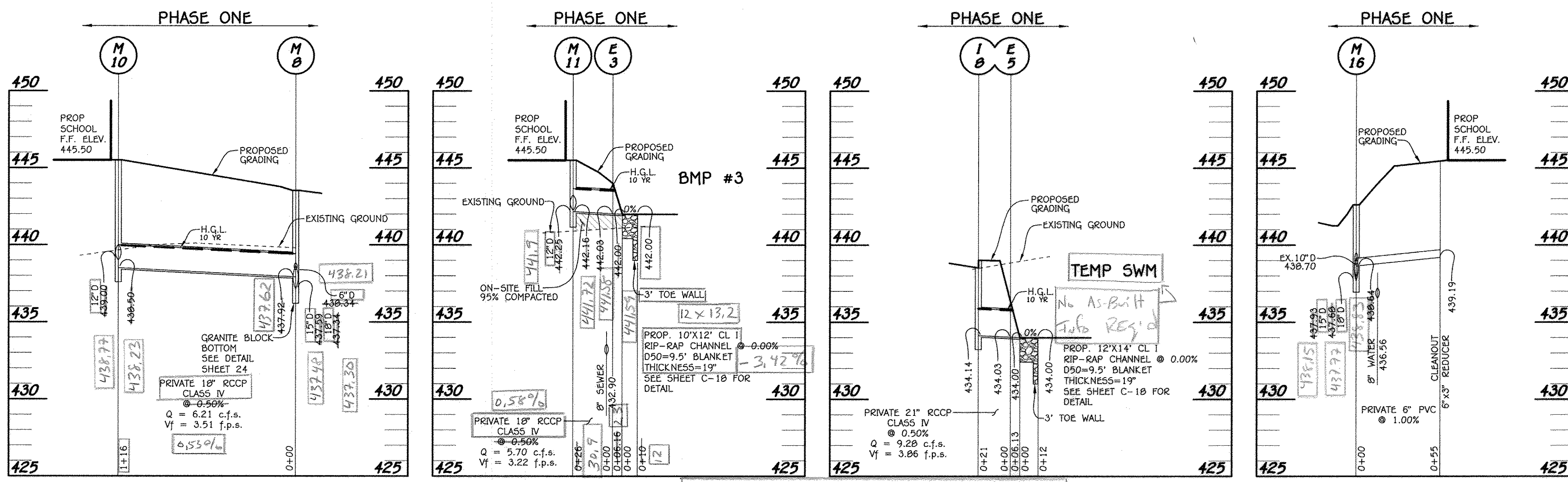
STORM DRAIN PROFILES
AS-Built VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY 30, 2015
SHEET 24 OF 54

1/20/11 10:53 Engineering Dwg 11055-4002 SDR SHEET 24-25 STORM PROFILES.dwg SHEET 24 1/28/2015 7:49:32 AM 11



STRUCTURE SCHEDULE										
STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV. IN	INV. OUT	COORDINATES	WIDTH	TYPE	REMARKS		
I-1	PRIVATE	448.00	431.97	439.02 (15')	439.22	439.96 (15')	N 4474.32 E 5405.13	2.58'	S INLET	D-4.22 & D-4.93
I-2	PRIVATE	443.00	433.04	439.17 (15')	432.58	439.07 (15')	N 4498.75 E 5324.30	2.58'	S INLET	D-4.22 & D-4.93
I-3	PRIVATE	443.00	433.04	439.17 (15')	432.58	439.07 (15')	N 4498.75 E 5324.30	2.58'	S INLET	D-4.22 & D-4.93
I-4	PRIVATE	443.00	433.04	439.17 (15')	432.58	439.07 (15')	N 4498.75 E 5324.30	2.58'	S INLET	D-4.22 & D-4.93
I-5	PRIVATE	441.95	431.95	435.81 (10')	434.83 (10')	434.73 (10')	N 4966.63 E 5381.25	2.5'	A-5	D - 4.01
I-6	PRIVATE	441.25	431.25	435.81 (10')	434.83 (10')	434.73 (10')	N 4966.63 E 5381.25	2.5'	S INLET	D-4.22 & D-4.93
I-7	PRIVATE	437.00	427.00	433.35 (21')	433.21	433.10 (24')	N 4500.46 E 4873.72	2.58'	DOUBLE S INLET	D-4.23 & D-4.93
I-8	PRIVATE	439.02	429.02	435.87	434.14 (21')	434.14 (21')	N 4480.74 E 4910.04	2.5'	A-5	D - 4.01
M-1	PRIVATE	428.50	418.53	417.91 (24')	423.60	415.95 (24')	N 5144.71 E 5839.94	4'	STD. MANHOLE	G - 5.12
M-2	PRIVATE	435.50	425.50	429.10 (24')	428.00 (24')	427.07 (24')	N 5018.38 E 5862.06	6'	STD. MANHOLE	G - 5.13
M-3	PRIVATE	435.50	425.50	429.10 (24')	428.00 (24')	427.07 (24')	N 5018.38 E 5862.06	6'	STD. MANHOLE	G - 5.12
M-4	PRIVATE	440.70	430.70	434.55 (24')	433.04 (24')	432.07 (24')	N 4737.80 E 5721.78	4'	STD. MANHOLE	G - 5.12
M-5	PRIVATE	445.70	435.70	436.17 (24')	435.00 (18')	435.42 (24')	N 4606.16 E 5607.88	4'	STD. MANHOLE	G - 5.12
M-6	PRIVATE	445.00	435.00	437.05 (24')	436.00 (24')	436.95 (15')	N 4497.83 E 5495.95	4'	STD. MANHOLE	G - 5.12
M-7	PRIVATE	439.50	429.50	435.04 (18')	434.21 (18')	433.64 (18')	N 4786.82 E 5707.43	4'	STD. MANHOLE	G - 5.12
M-8	PRIVATE	443.50	433.50	437.99 (18')	437.92 (18')	438.04 (6')	N 4793.30 E 5666.01	4'	STD. MANHOLE	G - 5.12
M-9	PRIVATE	442.25	432.25	437.99 (18')	437.92 (18')	438.04 (6')	N 4793.30 E 5666.01	4'	STD. MANHOLE	G - 5.12
M-10	PRIVATE	445.50	435.50	439.00 (18')	438.25 (18')	439.00 (18')	N 4631.90 E 5577.04	4'	STD. MANHOLE	G - 5.12
M-11	PRIVATE	445.50	435.50	439.00 (18')	438.25 (18')	439.00 (18')	N 4631.90 E 5577.04	4'	STD. MANHOLE	G - 5.12
M-12	PRIVATE	445.50	435.50	439.00 (18')	438.25 (18')	439.00 (18')	N 4631.90 E 5577.04	4'	STD. MANHOLE	G - 5.12
M-13	PRIVATE	443.00	433.00	436.00 (18')	435.00 (18')	435.99 (18')	N 4966.65 E 5382.96	4'	STD. MANHOLE	G - 5.12
M-14	PRIVATE	443.00	433.00	436.00 (18')	435.00 (18')	435.99 (18')	N 4966.65 E 5382.96	4'	STD. MANHOLE	G - 5.12
M-15	PRIVATE	443.00	433.00	436.00 (18')	435.00 (18')	435.99 (18')	N 4966.65 E 5382.96	4'	STD. MANHOLE	G - 5.12
M-16	PRIVATE	442.00	432.00	436.50 (17')	435.00 (18')	435.99 (18')	N 4789.45 E 5325.12	4'	STD. MANHOLE	G - 5.12
M-17	PRIVATE	442.00	432.00	436.50 (17')	435.00 (18')	435.99 (18')	N 4789.45 E 5325.12	4'	STD. MANHOLE	G - 5.12
R-1	PRIVATE	442.00	432.00	436.50 (17')	435.00 (18')	435.99 (18')	N 4789.45 E 5325.12	3'	MOD. K INLET	SEE SHEET 47
R-2	PRIVATE	442.00	432.00	436.50 (17')	435.00 (18')	435.99 (18')	N 4789.45 E 5325.12	3'	MOD. K INLET	SEE SHEET 47
R-3	PRIVATE	442.00	432.00	436.50 (17')	435.00 (18')	435.99 (18')	N 4789.45 E 5325.12	3'	MOD. K INLET	SEE SHEET 47
R-4	PRIVATE	442.00	432.00	436.50 (17')	435.00 (18')	435.99 (18')	N 4789.45 E 5325.12	3'	MOD. K INLET	SEE SHEET 47
R-5	PRIVATE	442.00	432.00	436.50 (17')	435.00 (18')	435.99 (18')	N 4789.45 E 5325.12	3'	MOD. K INLET	SEE SHEET 47
E-1	PRIVATE	447.00	437.00	443.00 (24')	441.54	441.27 (24')	N 5193.96 E 5831.32	24'	CONC. END SECTION	D - 5.51
E-2	PRIVATE	433.56	423.56	430.06 (18')	428.06	428.00 (18')	N 4820.76 E 5750.70	18'	CONC. END SECTION	D - 5.51
E-3	PRIVATE	433.56	423.56	430.06 (18')	428.06	428.00 (18')	N 4820.76 E 5750.70	18'	CONC. END SECTION	D - 5.51
E-4	PRIVATE	434.26	424.26	430.06 (18')	428.06	428.00 (18')	N 4820.76 E 5750.70	24'	CONC. END SECTION	D - 5.51
E-5	PRIVATE	434.26	424.26	430.06 (18')	428.06	428.00 (18')	N 4820.76 E 5750.70	24'	CONC. END SECTION	D - 5.51

PIPE SCHEDULE (PRIVATE)			
SIZE	CLASS	LENGTH	
6"	PERF PVC	200'	200' L.F.
6"	PVC SCH 40	24'	94' L.F.
15"	RCP, CLASS IV	715'	716' L.F.
18"	RCP, CLASS IV	690'	690' L.F.
21"	RCP, CLASS IV	45'	45' L.F.
24"	RCP, CLASS IV	810'	810' L.F.

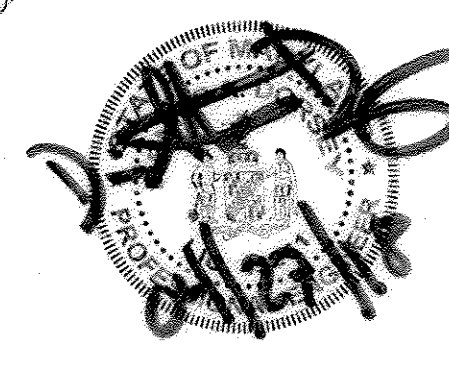


AS-BUILT CERTIFICATION PROFILE

I HEREBY CERTIFY, BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND THAT THIS PLAN MEETS THE APPROVED PLAN AND SPECIFICATIONS.

SIGNATURE: *[Signature]* DATE: 04/22/18

NAME: DEAN A. DORSEY MR. LICENSE NO. 45261 EXP. DATE: 04/19/18



APPROVED
PLANNING BOARD OF HOWARD COUNTY

DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTRAL SQUARE OFFICE: P.O. BOX 10272 BALTIMORE NATIONAL PLACE
ELKLOTT CITY, MARYLAND 21042
(410) 461-2299

"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. 13204, Expiration Date: November 3, 2016."

[Signature]
CHARLES J. CROVO, SR., P.E.

[Signature]
DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

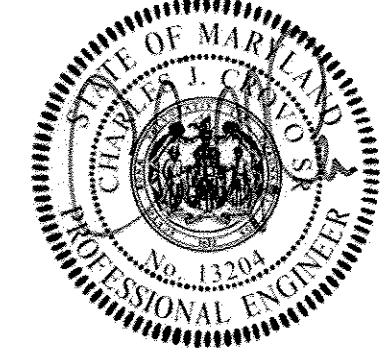
[Signature] 2-11-15
Date

[Signature] 2-11-15
Date

[Signature] 2-5-15
Date

Chief, Development Engineering Division

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24.6	NT	29.35	FIFTH	6054

WATER CODE: E-30 SEWER CODE: 5523900

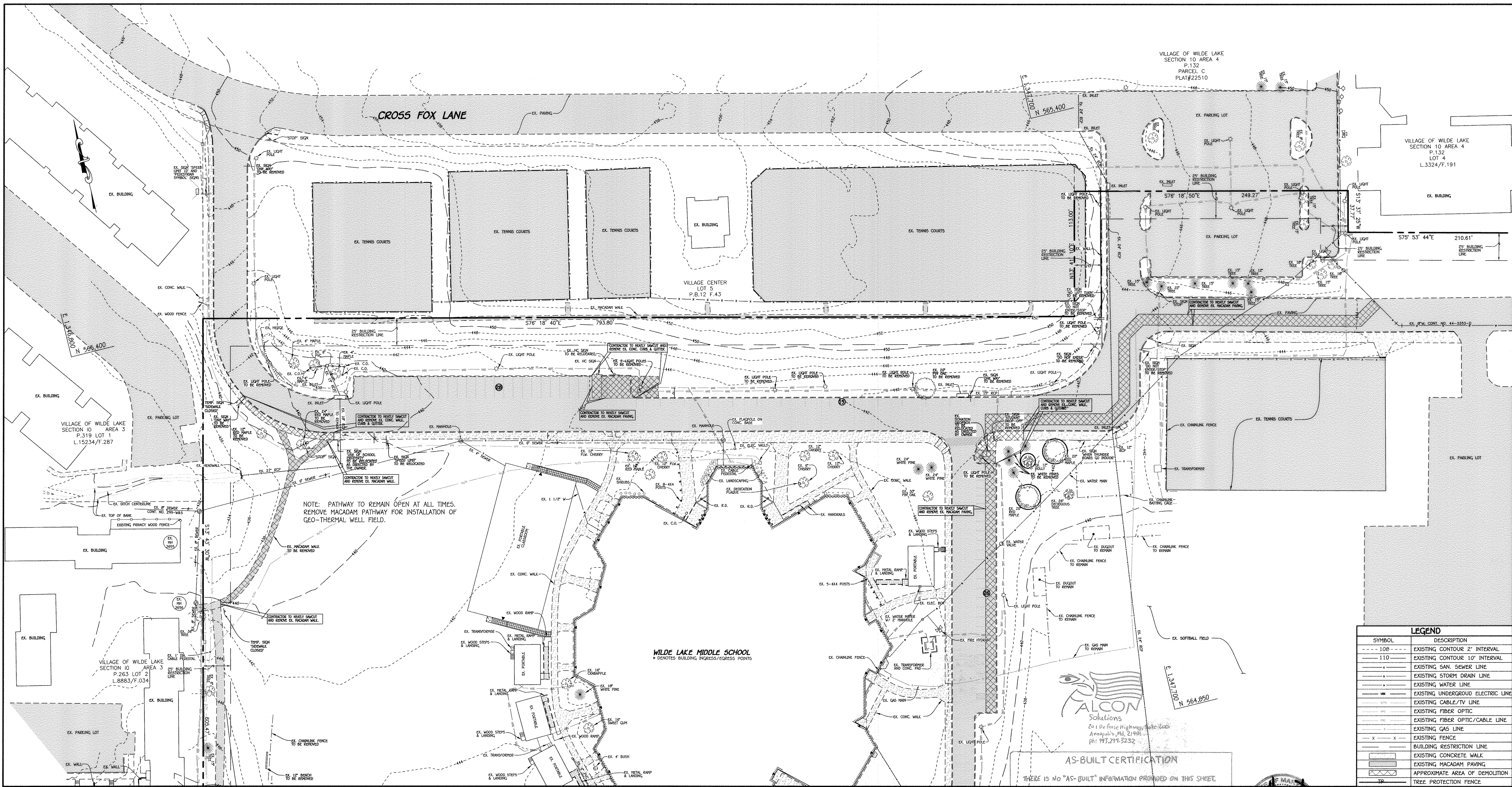
STORM DRAIN PROFILES, DETAILS AND STRUCTURE SCHEDULE

AS-BUILT VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6

FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY 30, 2015

SHEET 25 OF 54



NOTE: PATHWAY TO REMAIN OPEN AT ALL TIMES.
REMOVE MACADAM PATHWAY FOR INSTALLATION OF
GEO-THERMAL WELL FIELD.

WILDE LAKE MIDDLE SCHOOL
* DENOTES BUILDING INGRESS/EGRESS POINTS

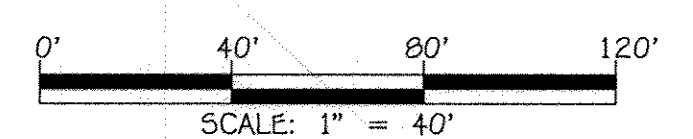
ALCON
Solutions
201 De Anza Highway, Suite 200
Annapolis, Md. 21401
PH: 443.274.3232

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

LEGEND	
SYMBOL	DESCRIPTION
--- 108 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FENCE
---	BUILDING RESTRICTION LINE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	APPROXIMATE AREA OF DEMOLITION
---	TREE PROTECTION FENCE

FOR CONTINUATION SEE SHEET 27

PLAN
SCALE: 1" = 40'



SIGNATURE *D.A.D.* DATE *04/22/14*
NAME *DENNIS A. DOREY* MR. LICENSE NO. *45261*
EXP. DATE *04/10/20*

D.A.D.
04/22/14

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
CLIXCOTT CITY, MARYLAND 21042
(410) 441 - 2095

"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. 132024, Expiration Date: November 3, 2016."
Charles J. Cravo, Sr., P.E.
DATE *12/15*

DATE	DESCRIPTION	REVISION BLOCK
1/21/16	REMOVE SHEET NUMBER 11	
2/11/15	REMOVE SHEET NUMBER 11	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
William A. Mackay Jr. 2-11-15
Director - Department of Planning and Zoning
Kate Johnson 2-11-15
Chief, Division of Land Development
Alf Clark 2-5-15
Chief, Development Engineering Division

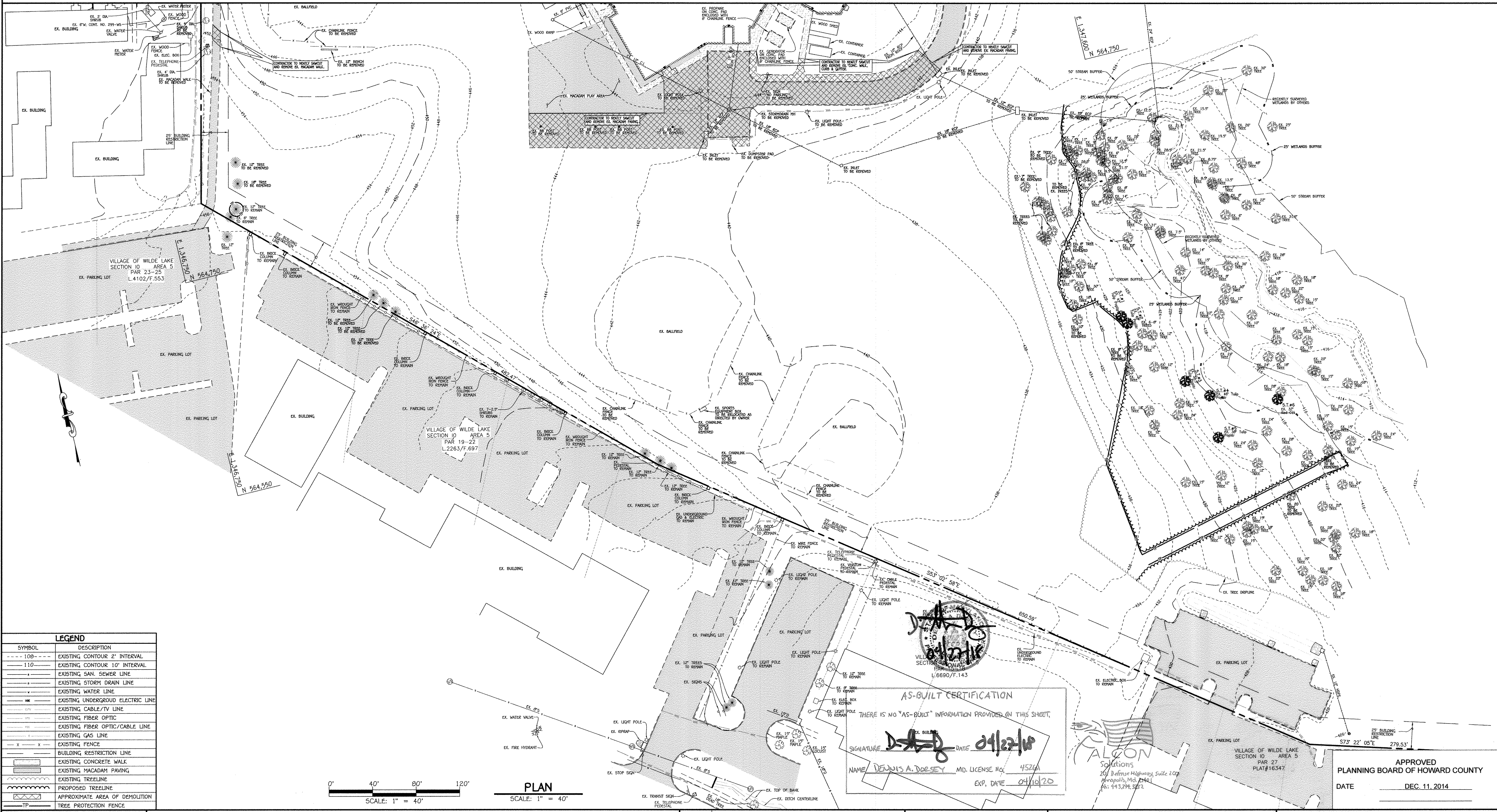
PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1 280
PLAT NOS.	BLOCK NO. ZONE TAX MAP ELEC. DIST. CENSUS TR.
23161-23163 L.15/F.90&91	24.6 NT 29.35 FIFTH 6054
WATER CODE	SEWER CODE
E-30	5523900

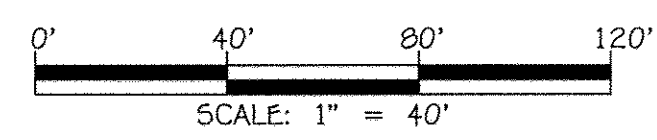
DEMOLITION PLAN - PHASE 1
As-Built VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: JANUARY 30, 2015
SHEET 26 OF 54

FOR CONTINUATION SEE SHEET 26



LEGEND

SYMBOL	DESCRIPTION
--- 108 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
X X	EXISTING FENCE
---	BUILDING RESTRICTION LINE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	APPROXIMATE AREA OF DEMOLITION
---	TREE PROTECTION FENCE



PLAN
SCALE: 1" = 40'

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *[Signature]* DATE: 04/27/10
NAME: DEWAIN A. DORSEY MD. LICENSE NO. 45264 EXP. DATE: 04/10/20

FALCON SOLUTIONS
207 Defense Highway, Suite 207
Annapolis, MD 21401
Tel: 410.294.2872

APPROVED HOWARD COUNTY
PLANNING BOARD
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2000

"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. 13204, Expiration Date: November 3, 2016."
[Signature]
CHARLES J. CROVO, SR., P.E. 1/20/15 DATE

DATE	DESCRIPTION	REVISION BLOCK
11/01/10	REVISE SHEET NUMBER	
2/11/15	REVISE SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	2-1-15	Date
Director - Department of Planning and Zoning		
<i>[Signature]</i>	2-11-15	Date
Chief, Division of Land Development		
<i>[Signature]</i>	2-5-15	Date
Chief, Development Engineering Division		

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805

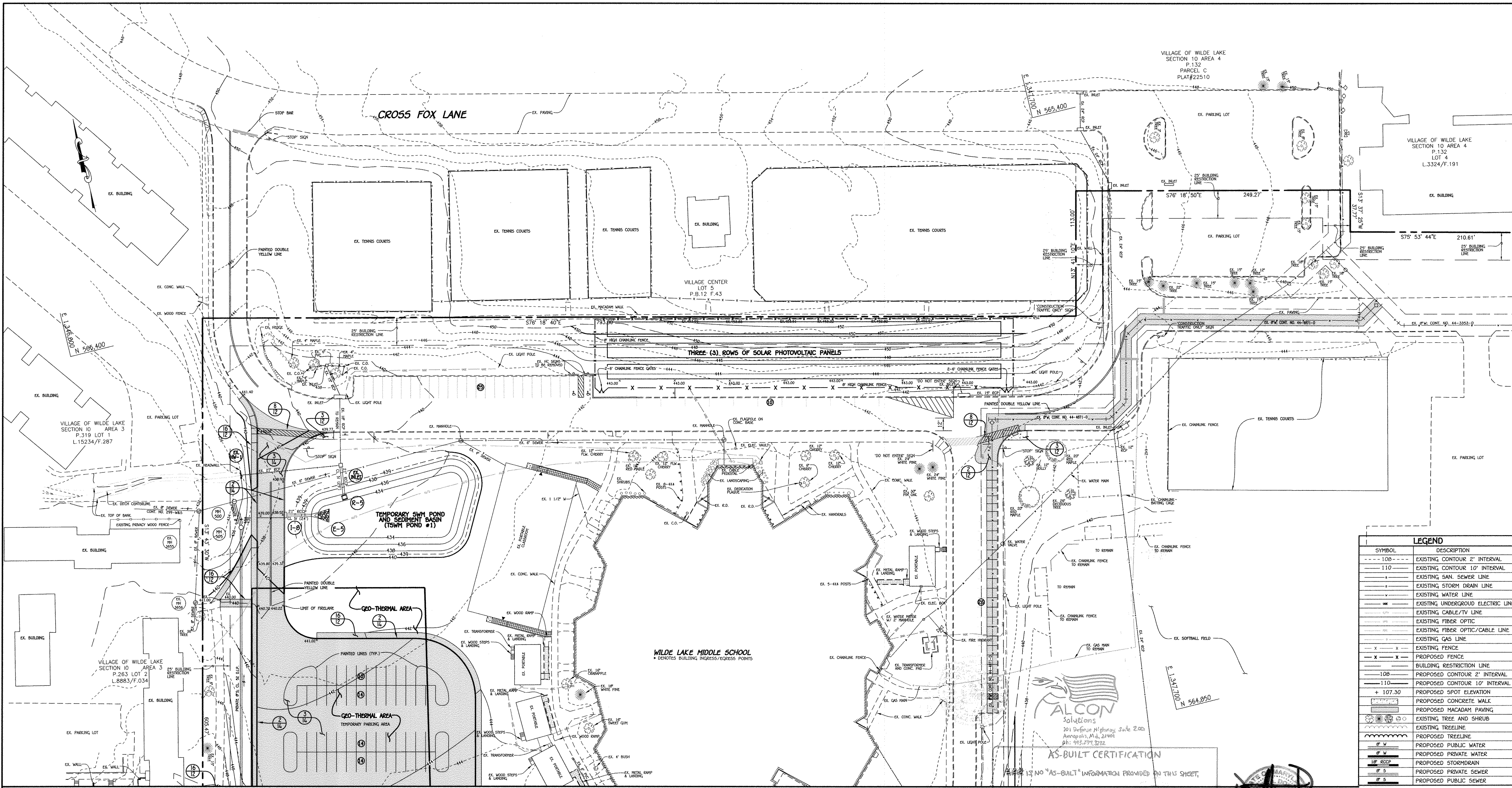


Address Chart

Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

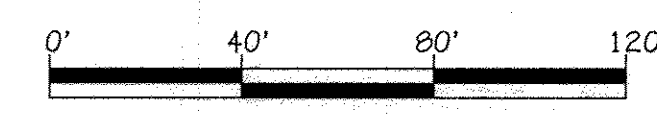
PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280
PLAT NOS. 23161-23163 L15/F.90&91	BLOCK NO. 24.6	ZONE NT
TAX MAP 29.35	ELEC. DIST. FIFTH	CENSUS TR. 6054
WATER CODE E-30	SEWER CODE 5523900	

DEMOLITION PLAN - PHASE 1
AS-BUILT VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: JANUARY 30, 2015
SHEET 27 OF 54



FOR CONTINUATION SEE SHEET 29

PLAN
SCALE: 1" = 40'



AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE: *D.A. Dorsey* DATE: 04/22/18
 NAME: DENNIS A. DORSEY MD. LICENSE NO. 45261
 EXP. DATE: 04/10/20

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARES OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELIJAH CITY, MARYLAND 21042
 (410) 461-2295

"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. 133204, Expiration Date: November 3, 2016."
Charles J. Grovo, Sr., P.E.
 CHARLES J. GROVO, SR., P.E. 1/22/15 DATE

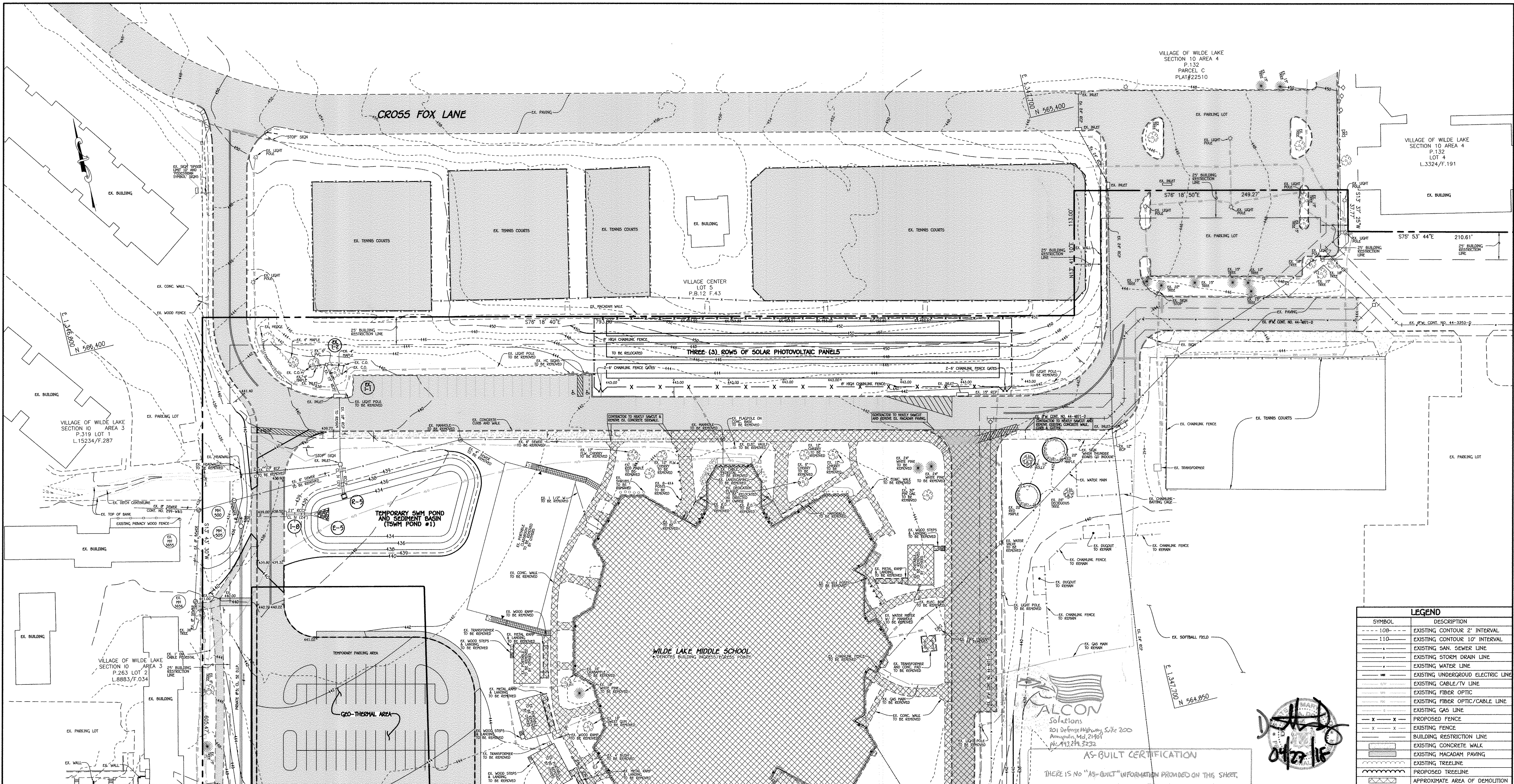
11/21/15	REVISION SHEET NUMBER	
2/11/16	RANGE SHEET NUMBER	
DATE	DESCRIPTION	REVISION BLOCK
	APPROVED: DEPARTMENT OF PLANNING AND ZONING	
	<i>William A. Mackay Jr.</i> 2-11-15 DATE	
	Chief, Division of Land Development	
	<i>Oliver...</i> 2-11-15 DATE	
	Chief, Development Engineering Division	

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 9045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA
WILDE LAKE MIDDLE SCHOOL	11/1
PLAT NOS.	BLOCK NO.
23161-23163 L.15/F.90891	24.6
WATER CODE	SEWER CODE
E-30	5523900

SITE DEVELOPMENT PLAN - PHASE 1
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
 WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 28 OF 54



FOR CONTINUATION SEE SHEET 31



AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE *D. Dorsey* DATE 01/27/16
 NAME DEWNIS A. DORSEY MD LICENSE NO. 45261
 EXP. DATE 04/16/20

LEGEND	
SYMBOL	DESCRIPTION
--- 100 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
-X-X-	PROPOSED FENCE
X-X-X	EXISTING FENCE
---	BUILDING RESTRICTION LINE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	APPROXIMATE AREA OF DEMOLITION

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLETTT CITY, MARYLAND 21142
 (410) 461-2000

"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. 13204, Expiration Date: November 3, 2016."
Charles J. Grovo, Sr. 1/27/15
 CHARLES J. GROVO, SR., P.E. DATE

DATE	DESCRIPTION	REVISION BLOCK
11/21/15	REVISE SHEET NUMBER	
2/11/16	REVISE SHEET NUMBER	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
William A. Mosher, Jr. 2-11-15
 Director - Department of Planning and Zoning Date
V. S. S. S. 2-11-15
 Chief, Division of Land Development Date
W. S. S. 2-9-15
 Chief, Development Engineering Division Date

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

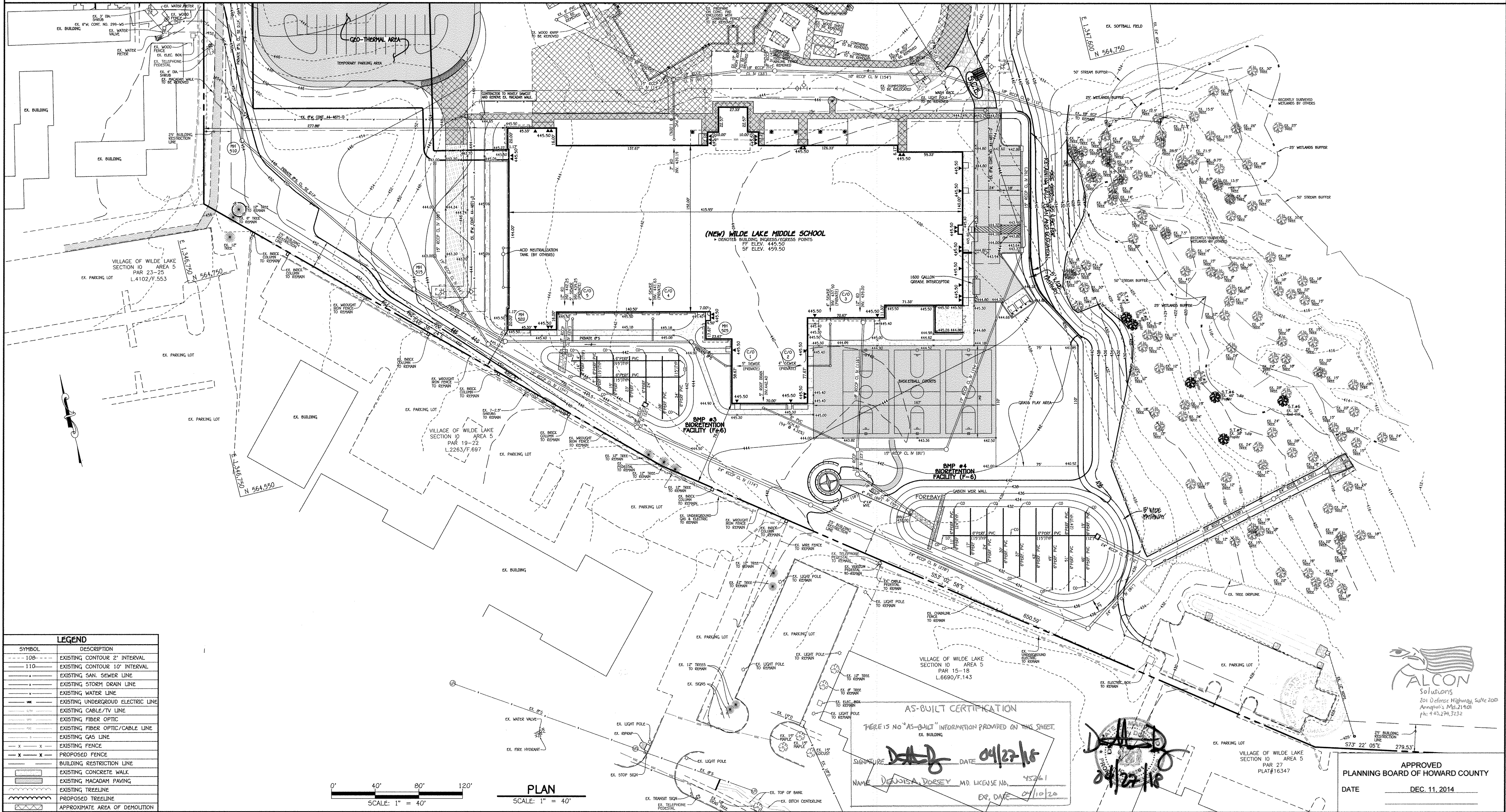
PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90891	24.6	NT	29,35	FIFTH	6054

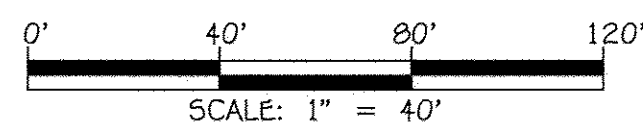
WATER CODE	SEWER CODE
E-30	5523900

DEMOLITION PLAN - PHASE 2
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
 WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 30 OF 54

FOR CONTINUATION SEE SHEET 30



SYMBOL	DESCRIPTION
109	EXISTING CONTOUR 2' INTERVAL
110	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FENCE
---	PROPOSED FENCE
---	BUILDING RESTRICTION LINE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	APPROXIMATE AREA OF DEMOLITION



PLAN
SCALE: 1" = 40'

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *[Signature]* DATE: 04/27/16
NAME: DEBORAH DOBNEY MD. LICENSE NO. 45261
EX. DATE: 07/10/20



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE: PARL - 10772 BALDWIN NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2299

"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. 13204, Expiration Date: November 3, 2016."

[Signature]
CHARLES J. DEVOLO, SR., P.E.
1/20/15 DATE

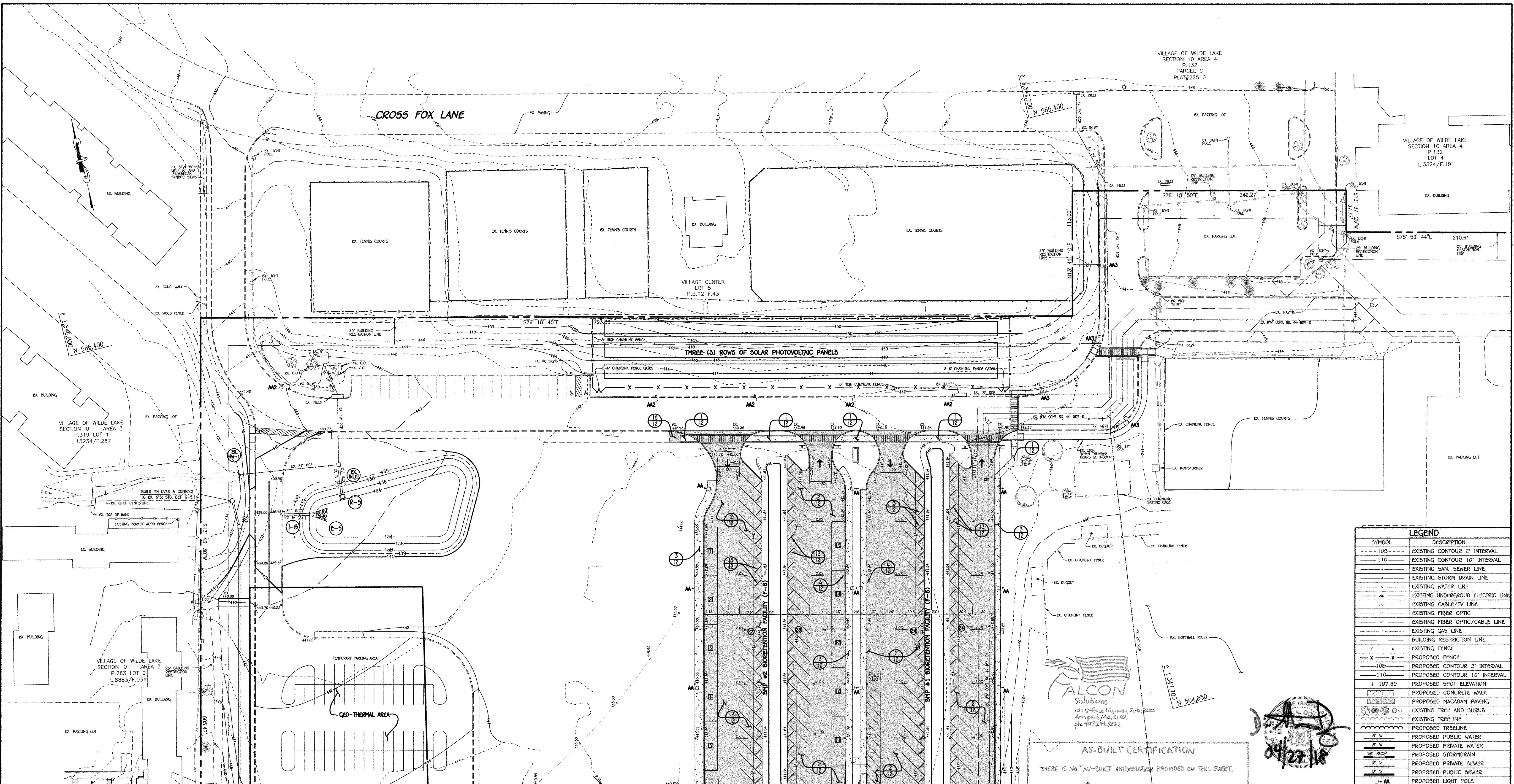
11/01/10	REMOVE RETAINING WALL, REMOVE ASPHALT & PATCH NUMBER
01/11/15	ADD 2' WIDE PATHWAY, REBUILDING WALL AND REMOVE THE TOTAL NUMBER OF SHEETS IN THE TITLE BLOCK
DATE:	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	2-11-15 Date
Director - Department of Planning and Zoning	
<i>[Signature]</i>	2-11-15 Date
Chief, Division of Land Development	
<i>[Signature]</i>	2-9-15 Date
Chief, Development Engineering Division	

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart	
Parcel Number	Street Address
280	10401 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA
WILDE LAKE MIDDLE SCHOOL	11/1
PLAT NOS.	BLOCK NO.
23161-23163 L15/F.90&91	24.6
WATER CODE	SEWER CODE
E-30	5523900

DEMOLITION PLAN - PHASE 2	
As-Built VILLAGE OF WILDE LAKE SECTION 10 AREA 1 LOT 1 WILDE LAKE MIDDLE SCHOOL	
ZONED: NT	PARCEL No.: 280
TAX MAP No.: 29	GRID No.: 24
TAX MAP No.: 35	GRID No.: 6
FIFTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
SCALE: 1" = 40'	DATE: JANUARY 30, 2015
SHEET 31 OF 54	



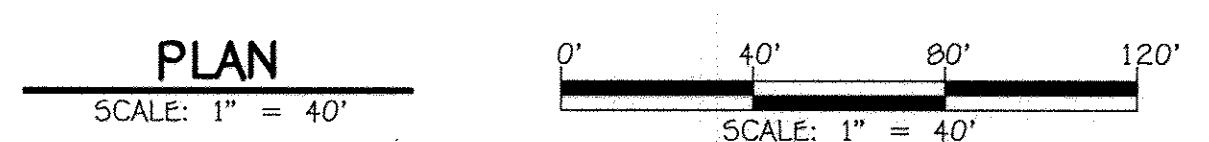
LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	BUILDING RESTRICTION LINE
---	EXISTING FENCE
---	PROPOSED FENCE
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
+	PROPOSED SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED PUBLIC WATER
---	PROPOSED PRIVATE WATER
---	PROPOSED STORMDRAIN
---	PROPOSED PRIVATE SEWER
---	PROPOSED PUBLIC SEWER
---	PROPOSED LIGHT POLE

ALCON Solutions
 201 Defense Highway, Suite 200
 Annapolis, Md, 21401
 ph: 410.224.3232

AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

[Signature]
 04/27/18

FOR CONTINUATION SEE SHEET 33



SIGNATURE *[Signature]* DATE 04/27/18
 NAME DENNIS A. DORSEY, MD LICENSE NO. 45261
 EXP. DATE 04/10/20

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELIJAH CITY, MARYLAND 21042
 (410) 461-2895

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2016.

[Signature]
 CHARLES R. CRONO, SR., P.E. 1/27/15
 DATE

DATE	REVISION SHEET NUMBER	DESCRIPTION
11/21/16	REVISION SHEET NUMBER	
9/11/16	REVISION SHEET NUMBER	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 2-11-15
 Director, Department of Planning and Zoning
[Signature] 2-11-15
 Chief, Division of Land Development
[Signature] 2-9-15
 Chief, Development Engineering Division

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24,6	NT	29,35	FIFTH	6054

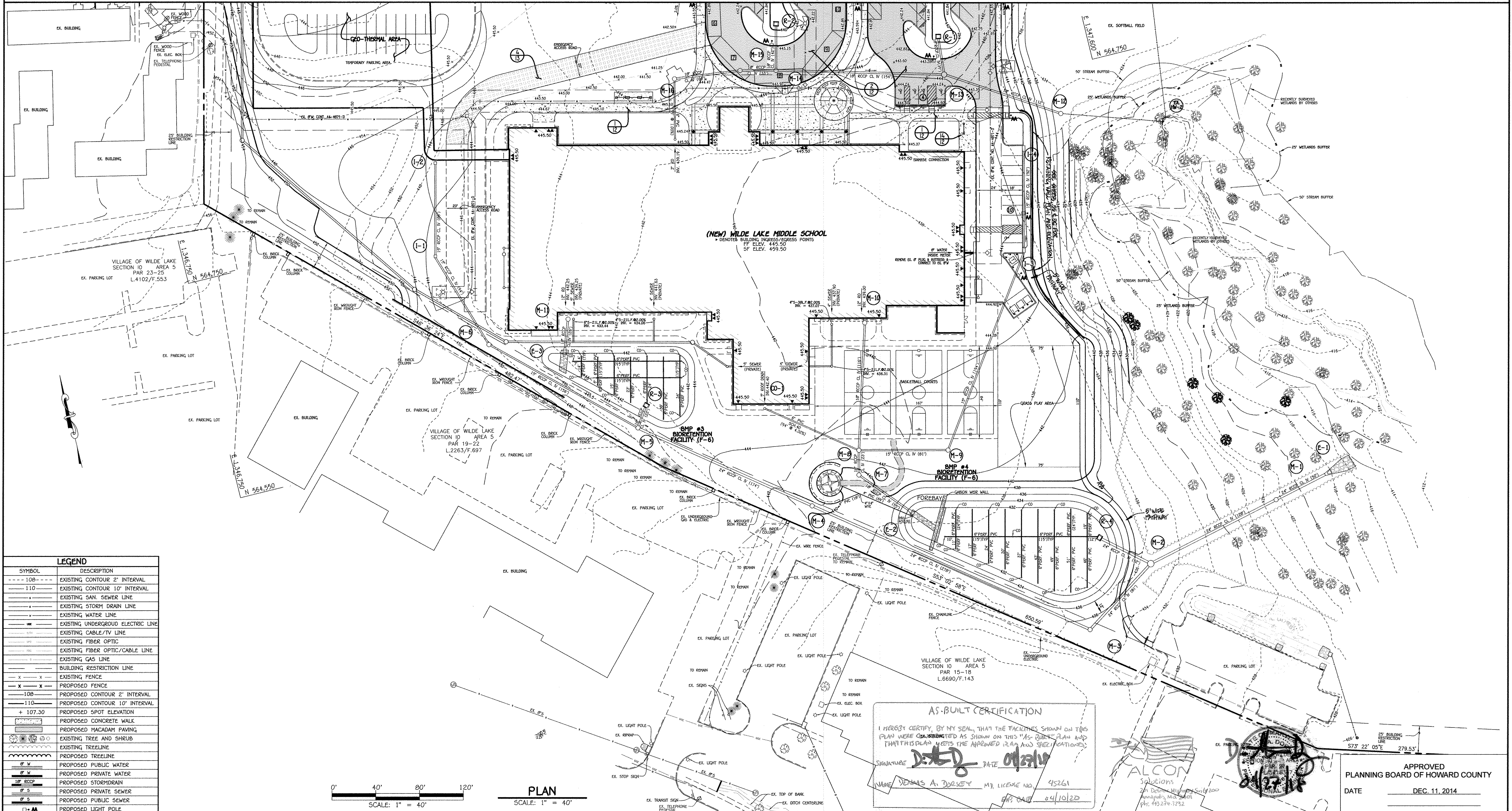
WATER CODE E-30 SEWER CODE 5523900

SITE DEVELOPMENT PLAN - PHASE 2
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
WILDE LAKE MIDDLE SCHOOL

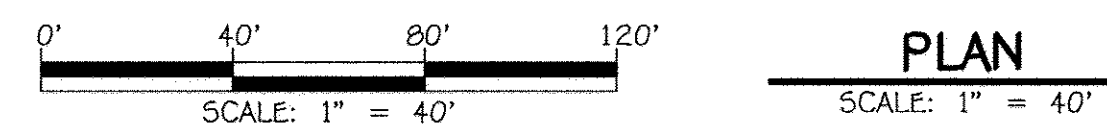
ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015

SHEET 32 OF 54

FOR CONTINUATION SEE SHEET 32

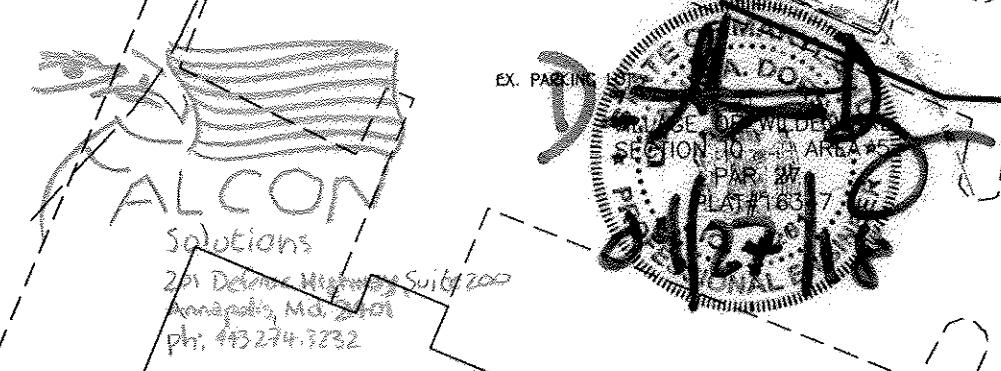


LEGEND	
SYMBOL	DESCRIPTION
--- 108 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	BUILDING RESTRICTION LINE
---	EXISTING FENCE
-x-x-	PROPOSED FENCE
--- 108 ---	PROPOSED CONTOUR 2' INTERVAL
--- 110 ---	PROPOSED CONTOUR 10' INTERVAL
+ 107.30	PROPOSED SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
6" W	PROPOSED PUBLIC WATER
6" W	PROPOSED PRIVATE WATER
18" RCP	PROPOSED STORMDRAIN
6" S	PROPOSED PRIVATE SEWER
6" S	PROPOSED PUBLIC SEWER
LA	PROPOSED LIGHT POLE



PLAN
SCALE: 1" = 40"

AS-BUILT CERTIFICATION
 I HEREBY CERTIFY, BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND THAT THIS PLAN MEETS THE APPROVED PLAN AND SPECIFICATIONS.
 SIGNATURE: *Scott Washington* DATE: 02/10/20
 NAME: SCOTT WASHINGTON MR. LICENSE NO. 45261
 ADDRESS: 410-313-6805
 ADDRESS CHART: 24/10/20



APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 481-2299

"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. 13204, Expiration Date: November 3, 2016."
Charles J. Cevo
 CHARLES J. CEVO, SR., P.E. 1/20/15 DATE

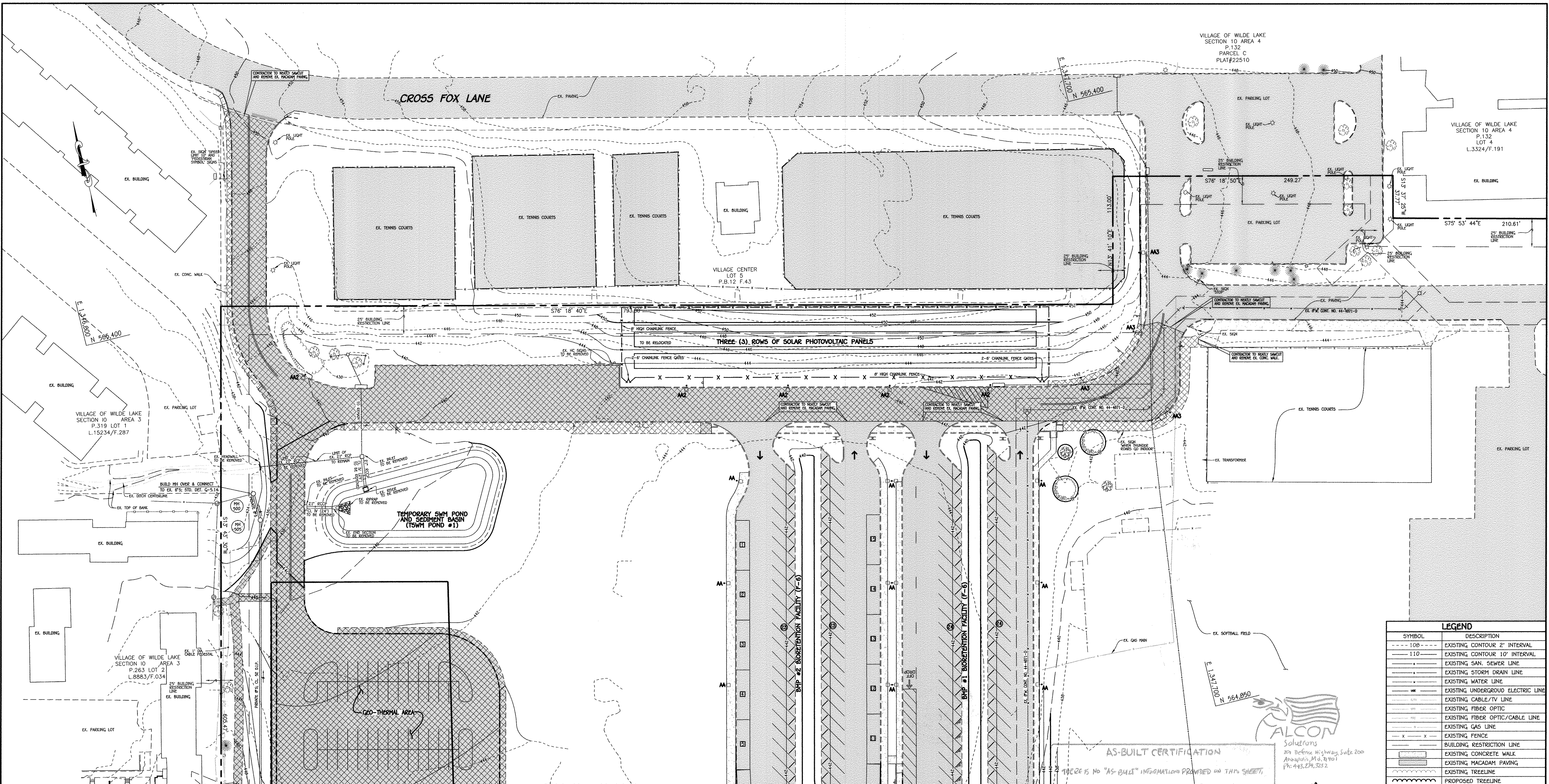
DATE	REVISION	DESCRIPTION
11/01/16	1	ISSUE SHEET NUMBER
2/11/15	2	ADD 5' WIDE RETAINING CONCRETE WALL AND INCREASE THE TOTAL NUMBER OF CHAIRS IN THE TITLE BLOCK.
REVISION BLOCK		
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>William A. Mackay Jr.</i>	2-11-15	Date
Director of Department of Planning and Zoning		
<i>Kate Calverton</i>	2-11-15	Date
Chief, Division of Land Development		
<i>Chad Egan</i>	2-5-15	Date
Chief, Development Engineering Division		

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	
WILDE LAKE MIDDLE SCHOOL	SECTION/AREA 11/1 PARCEL 280
PLAT NOS. 23161-23163 L.15/F.90&91	BLOCK NO. 24,6 ZONE NT TAX MAP 29,35 ELEC. DIST. FIFTH CENSUS TR. 6054
WATER CODE E-30	SEWER CODE 5523900

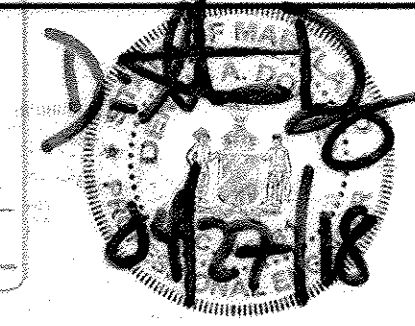
SITE DEVELOPMENT PLAN - PHASE 2
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 33 OF 54



LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FENCE
---	BUILDING RESTRICTION LINE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	EXISTING TREETRINE
---	PROPOSED TREETRINE
---	APPROXIMATE AREA OF DEMOLITION
---	PROPOSED LIGHT POLE

FOR CONTINUATION SEE SHEET 35

AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE: [Signature] DATE: 04/27/18
 NAME: DEVIN A. DESEY MD. LICENSE NO. 45261
 EXP. DATE: 04/10/20



APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

PLAN

SCALE: 1" = 40'



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELKLOTT CITY, MARYLAND 21042
 410.461.2000

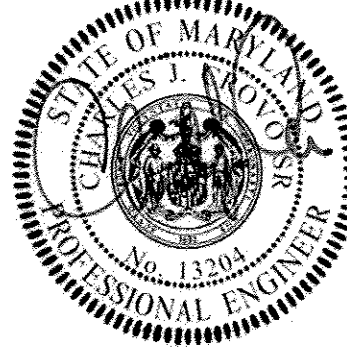
"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204. Expiration Date: November 3, 2016."

[Signature] 1/22/15
 CHARLES J. BROVO, SR., P.E. DATE

DATE	REVISION SHEET NUMBER	DESCRIPTION
11/21/16	1	REVISE SHEET NUMBER
01/11/18	2	REVISE SHEET NUMBER

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 2-11-15
 Director - Department of Planning and Zoning
 [Signature] 2-11-15
 Chief, Division of Land Development
 [Signature] 2-5-15
 Chief, Development Engineering Division

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



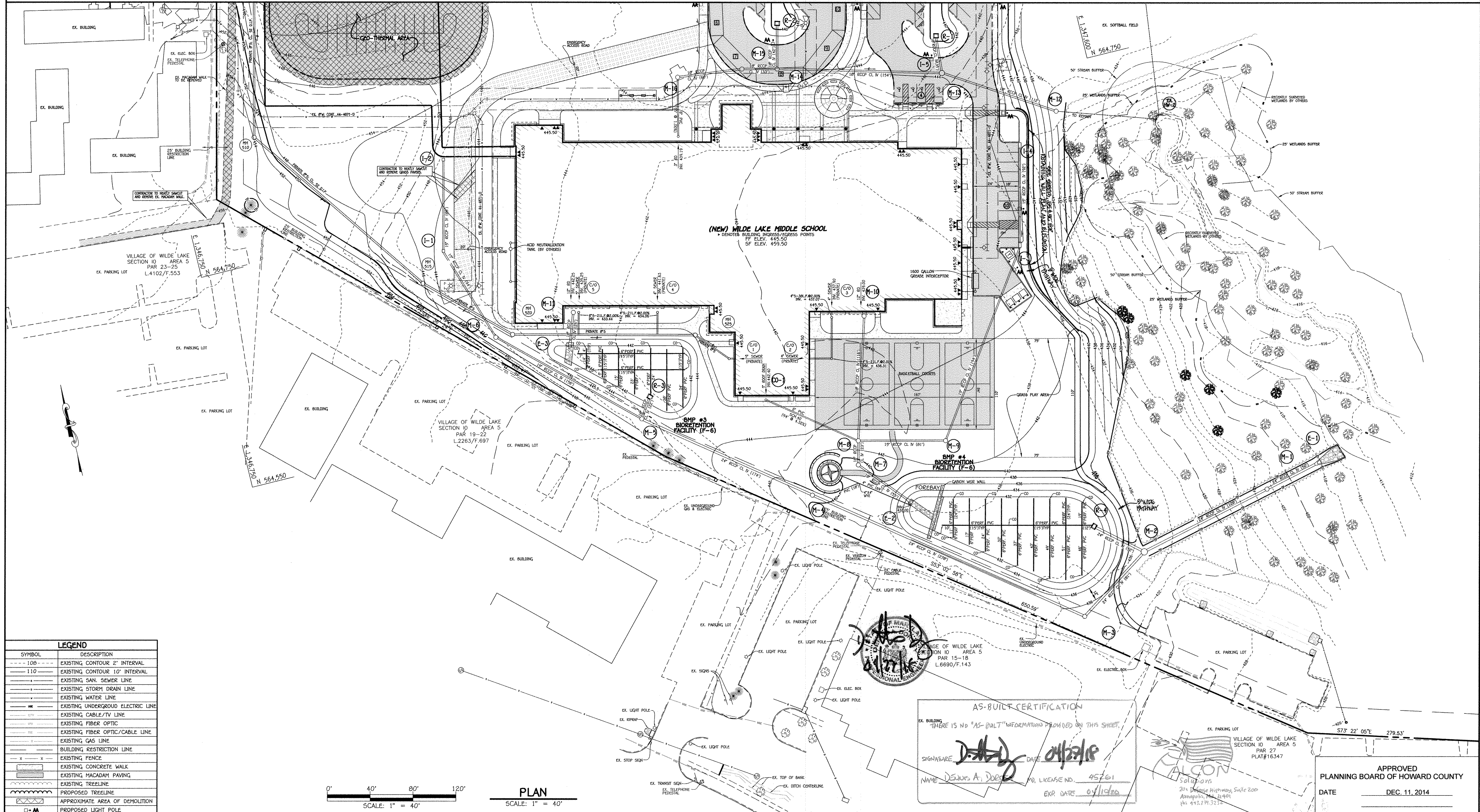
Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

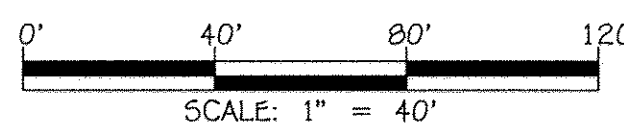
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24,6	NT	29.35	FIFTH	6054

WATER CODE: E-30 SEWER CODE: 5523900

DEMOLITION PLAN - PHASE 3
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
 WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 34 OF 54



LEGEND	
SYMBOL	DESCRIPTION
--- 100 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	BUILDING RESTRICTION LINE
---	EXISTING FENCE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	APPROXIMATE AREA OF DEMOLITION
---	PROPOSED LIGHT POLE



PLAN
SCALE: 1" = 40'

AS-BUILT CERTIFICATION
 EX. BUILDING
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE: *D. A. Dore* DATE: 04/27/15
 NAME: DENNIS A. DORE NO. LICENSE NO. 45761 EXP. DATE: 04/11/20

FALCON SOLUTIONS
 201 George Highway, Suite 200
 Annapolis, MD 21401
 Tel: 410-274-3232

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 CLUETON CITY, MARYLAND 21042
 (410) 461-2992

"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. 13204, Expiration Date: November 3, 2016."
Charles J. Crowe, Sr., P.E. 1/20/15
 CHARLES J. CROWE, SR., P.E. DATE

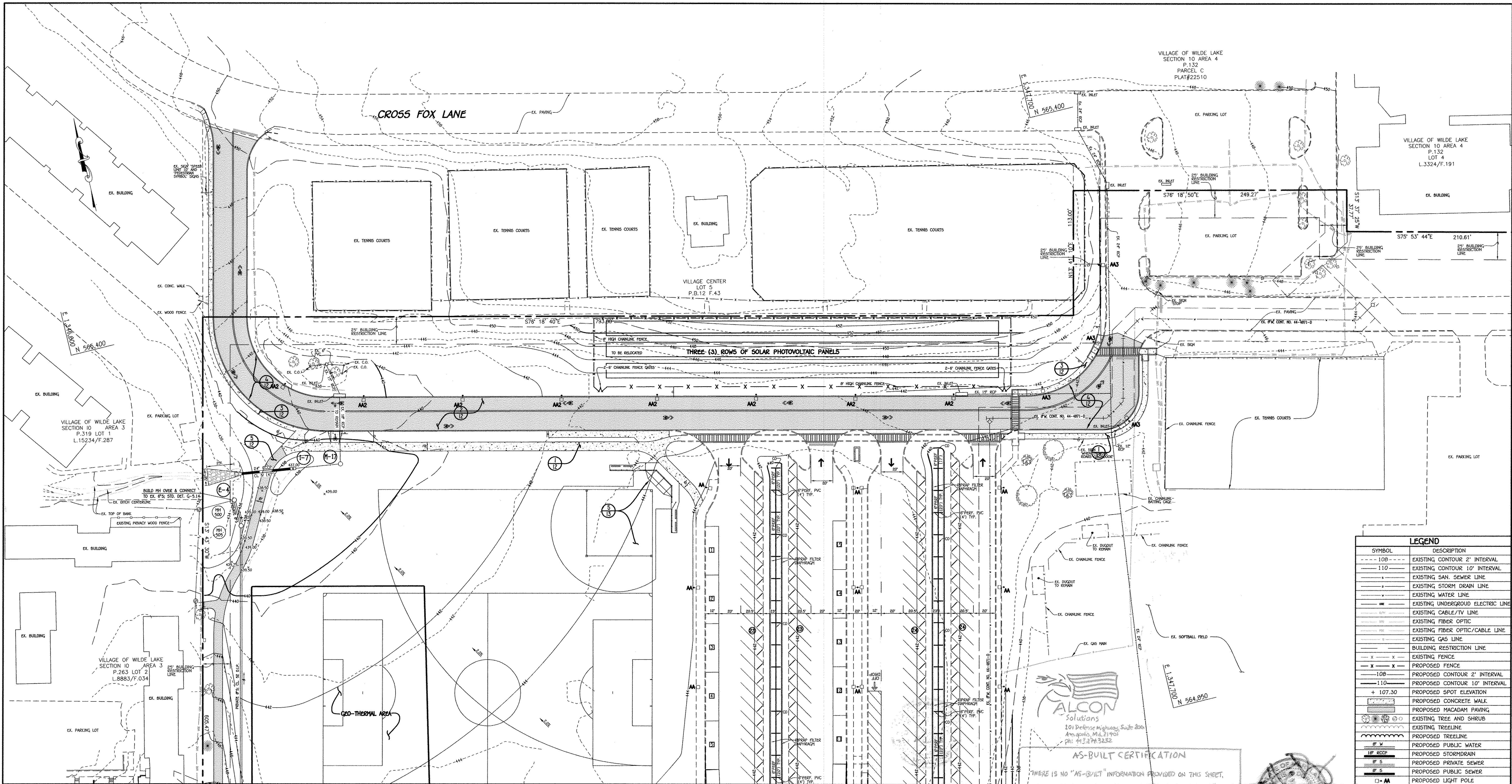
DATE	DESCRIPTION	REVISION BLOCK
11/21/10	REMOVE PERIMETER WALL, REMOVE GRASSY AREA & CHANGE NUMBER	
3/11/15	REMOVE PERIMETER RESTRAINING WALL AND REMOVE THE TOTAL NUMBER OF SHEETS IN THE TITLE BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
Director - Department of Planning and Zoning		
Chief, Division of Land Development		
Chief, Development Engineering Division		

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1 280
PLAT NOS. 23161-23163 L15/F.90&91	BLOCK NO. 24.6 ZONE NT TAX MAP 29.35 ELEC. DIST. FIFTH CENSUS TR. 6054
WATER CODE E-30	SEWER CODE 5523900

DEMOLITION PLAN - PHASE 3
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 35 OF 54



FOR CONTINUATION SEE SHEET 37

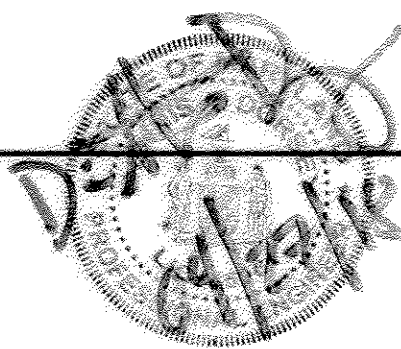
PLAN

SCALE: 1" = 40'

0' 40' 80' 120'

SCALE: 1" = 40'

SIGNATURE *[Signature]* DATE *06/21/15*
 NAME *JENNIS A. DORSEY* MD. LICENSE NO. *45261*
 EXP. DATE *09/10/20*



APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE *DEC. 11, 2014*

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELLSWORTH CITY, MARYLAND 21042
 (410) 461-2209

"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. 13204, Expiration Date: November 3, 2016."

[Signature]
 CHARLES J. CROVO, SR., P.E.

[Signature]
 DATE

W/21/15	REVISION SHEET NUMBER	DATE	DESCRIPTION
2/11/15	REVISION SHEET NUMBER		
REVISION BLOCK			
APPROVED: DEPARTMENT OF PLANNING AND ZONING			
<i>[Signature]</i>			2-11-15
Director, Department of Planning and Zoning			Date
<i>[Signature]</i>			2-11-15
Chief, Division of Land Development			Date
<i>[Signature]</i>			2-5-15
Chief, Development Engineering Division			Date

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24,6	NT	29,35	FIFTH	6054
WATER CODE	E-30	SEWER CODE	5523900		

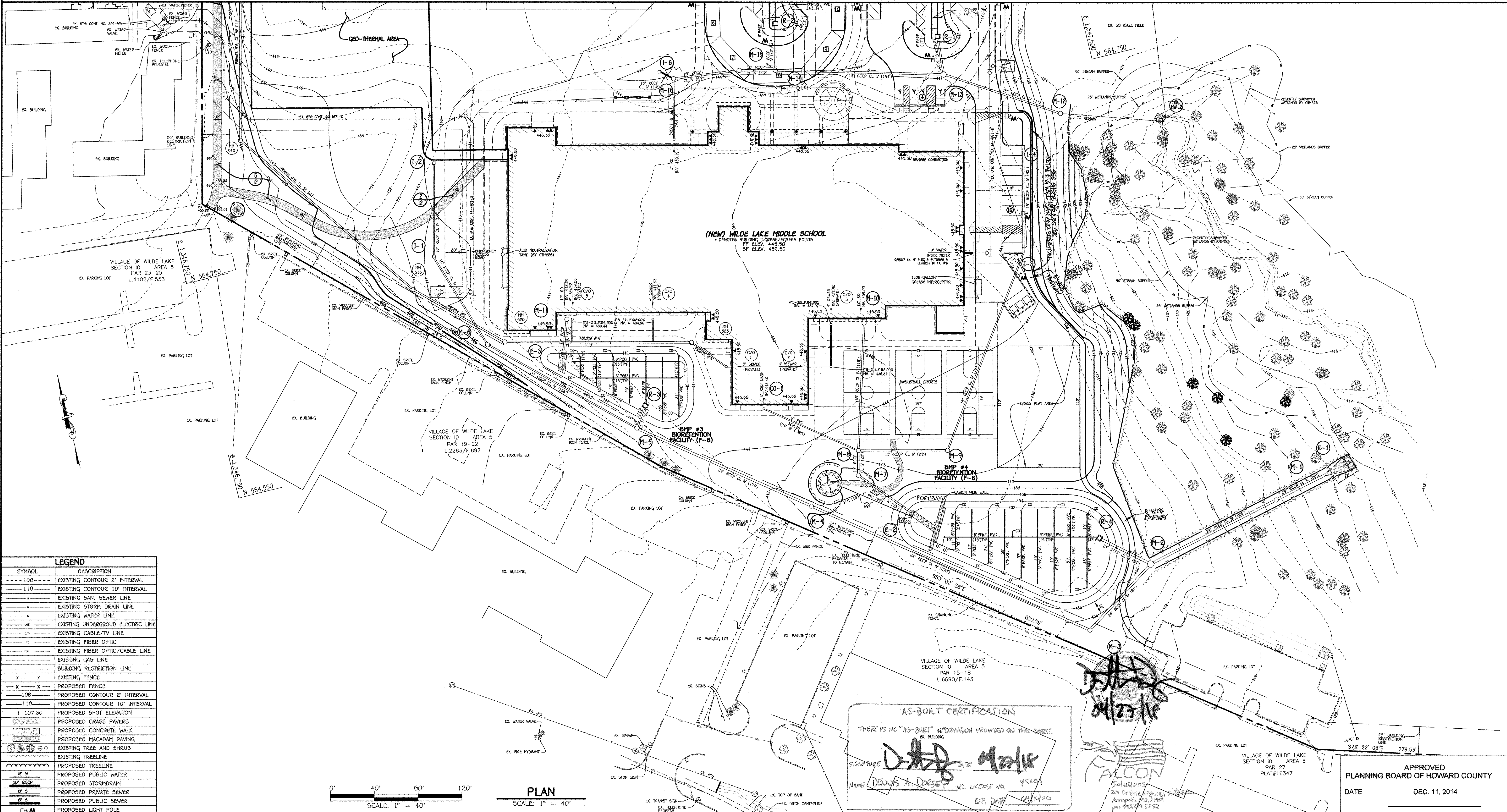
SITE DEVELOPMENT PLAN - PHASE 3

AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
 WILDE LAKE MIDDLE SCHOOL

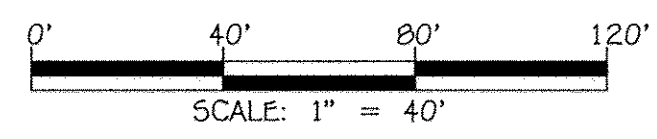
ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015

SHEET 36 OF 54

FOR CONTINUATION SEE SHEET 36



LEGEND	
SYMBOL	DESCRIPTION
--- 108 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC LINE
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	BUILDING RESTRICTION LINE
---	EXISTING FENCE
-X-X-	PROPOSED FENCE
--- 108 ---	PROPOSED CONTOUR 2' INTERVAL
--- 110 ---	PROPOSED CONTOUR 10' INTERVAL
+ 107.30	PROPOSED SPOT ELEVATION
[Symbol]	PROPOSED GRASS PAVERS
[Symbol]	PROPOSED CONCRETE WALK
[Symbol]	PROPOSED MACADAM PAVING
[Symbol]	EXISTING TREE AND SHRUB
[Symbol]	EXISTING TREELINE
[Symbol]	PROPOSED TREELINE
W	PROPOSED PUBLIC WATER
S	PROPOSED STORMDRAIN
S	PROPOSED PRIVATE SEWER
S	PROPOSED PUBLIC SEWER
□-M	PROPOSED LIGHT POLE



PLAN
SCALE: 1" = 40'

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *[Signature]* DATE: 04/23/16
NAME: DEWIS A. DORSEY MD LICENSE NO. 45261
EXP. DATE: 04/19/20

[Signature]
04/23/16
FALCON
Solutions
201 Defense Highway
Annapolis, MD 21401
ph: 410.274.3232

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10072 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
410.461.1000

"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. 13204, Expiration Date: November 3, 2016."
[Signature]
CHARLES J. CARVO, SR., P.E.
DATE: 1/15/15

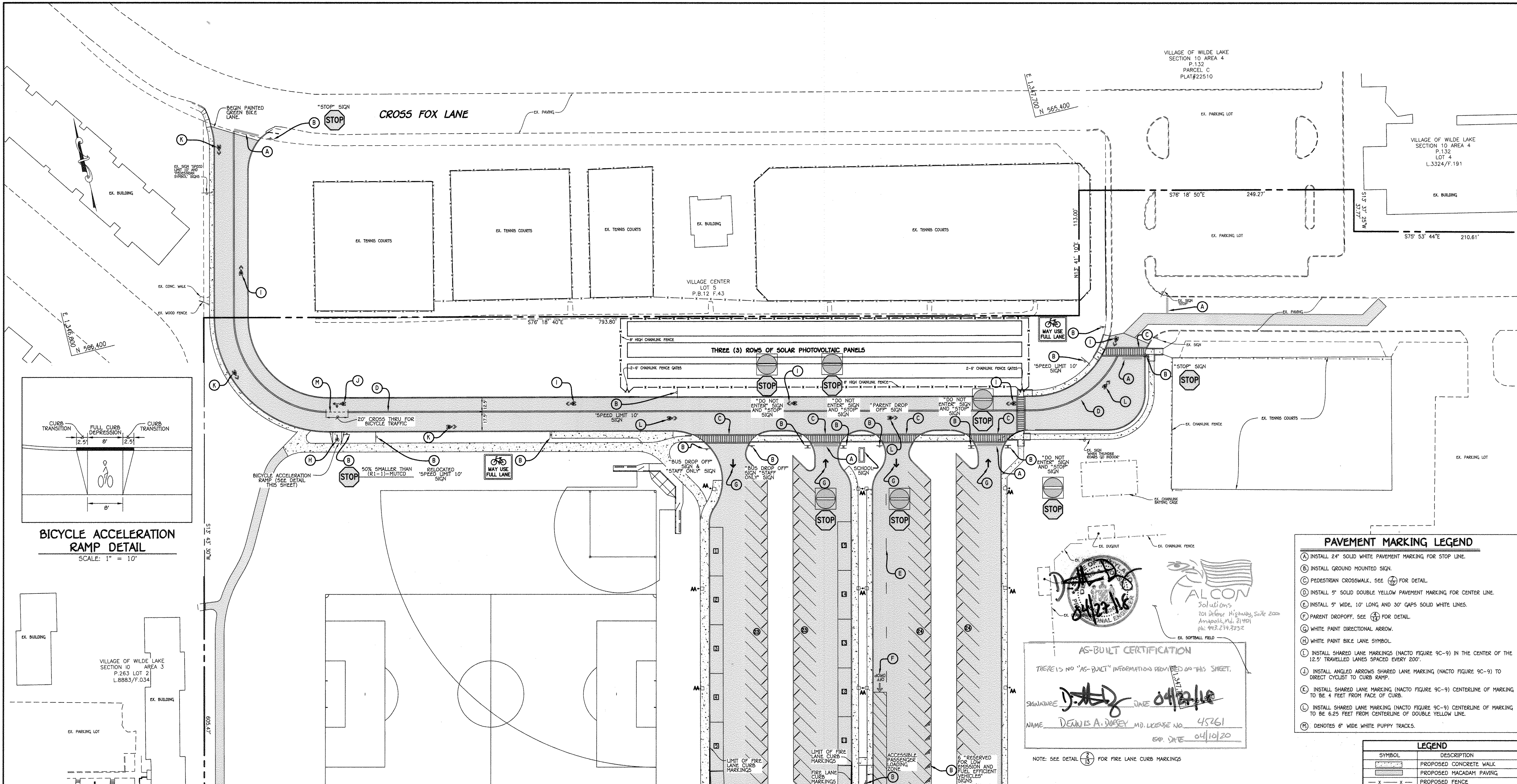
DATE	DESCRIPTION	REVISION BLOCK
11/01/10	ISSUING PERMITS, WALL, REPAIRS, GRASS, & STREET NUMBER	
2/11/15	ADD 20' WIDE SIDEWALK, REPAIRING WALL AND RELIEVE THE TOTAL NUMBER OF SHEETS IN THE TITLE BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	Director - Department of Planning and Zoning	2-11-15 Date
<i>[Signature]</i>	Chief, Division of Land Development	2-11-15 Date
<i>[Signature]</i>	Chief, Development Engineering Division	2-5-15 Date

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24,6	NT	29,35	FIFTH	6054
WATER CODE	SEWER CODE				
E-30	5523900				

SITE DEVELOPMENT PLAN - PHASE 3
AS-BUILT VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: JANUARY 30, 2015
SHEET 37 OF 54



FOR CONTINUATION SEE SHEET 39

PLAN

SCALE: 1" = 40'



PAVEMENT MARKING LEGEND

- (A) INSTALL 24" SOLID WHITE PAVEMENT MARKING FOR STOP LINE.
- (B) INSTALL GROUND MOUNTED SIGN.
- (C) PEDESTRIAN CROSSWALK, SEE (7) FOR DETAIL.
- (D) INSTALL 5" SOLID DOUBLE YELLOW PAVEMENT MARKING FOR CENTER LINE.
- (E) INSTALL 5" WIDE, 10' LONG AND 30' GAPS SOLID WHITE LINES.
- (F) PARENT DROPOFF, SEE (7) FOR DETAIL.
- (G) WHITE PAINT DIRECTIONAL ARROW.
- (H) WHITE PAINT BIKE LANE SYMBOL.
- (I) INSTALL SHARED LANE MARKINGS (NACTO FIGURE 9C-9) IN THE CENTER OF THE 12.5' TRAVELLED LANES SPACED EVERY 200'.
- (J) INSTALL ANGLED ARROWS SHARED LANE MARKING (NACTO FIGURE 9C-9) TO DIRECT CYCLIST TO CURB RAMP.
- (K) INSTALL SHARED LANE MARKING (NACTO FIGURE 9C-9) CENTERLINE OF MARKING TO BE 4 FEET FROM FACE OF CURB.
- (L) INSTALL SHARED LANE MARKING (NACTO FIGURE 9C-9) CENTERLINE OF MARKING TO BE 6.25 FEET FROM CENTERLINE OF DOUBLE YELLOW LINE.
- (M) DENOTES 6" WIDE WHITE PUPPY TRACKS.

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

SIGNATURE: *[Signature]* DATE: 04/10/20

NAME: DENNIS A. DUSEY MD. LICENSE NO. 45261 EXP. DATE 04/10/20

NOTE: SEE DETAIL (2) FOR FIRE LANE CURB MARKINGS

LEGEND

SYMBOL	DESCRIPTION
[Symbol]	PROPOSED CONCRETE WALK
[Symbol]	PROPOSED MACADAM PAVING
[Symbol]	PROPOSED FENCE

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-1895

NOTES:

- ALL SIGN LOCATIONS AND PAVEMENT MARKINGS TO BE INSTALLED IN THE COUNTY RIGHT-OF-WAY OR AT A COUNTY INTERSECTION MUST BE APPROVED BY THE HOWARD COUNTY TRAFFIC DIVISION (410-313-2430).
- ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED ("QUICK PUNCH"), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) 3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO "QUICK PUNCH" HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- ALL PAINT FOR PARKING STRIPING, BUS LOOP STRIPING, HANDICAPPED SYMBOLS AND CROSSWALKS TO BE ACRYLIC OR LATEX PAINT ESPECIALLY FORMULATED AND MANUFACTURED FOR USE ON ASPHALTIC CONCRETE UNDER TRAFFIC CONDITIONS. ACCEPTABLE STRIPING PAINTS ARE "NON-REFLECTORIZED" BY SHERWIN WILLIAMS OR "IRON-CLAD" BY BENJAMIN MOORE. PARKING STRIPES SHALL BE 4" WIDE WHITE UNLESS OTHERWISE NOTED. ACCESSIBLE SPACE STENCIL SHALL BE PAINTED BLUE IN ACCORDANCE WITH FEDERAL STANDARD 5952.

"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. 13204, Expiration Date: November 3, 2016."

[Signature]
CHARLES J. CROVO, SR., P.E.
DATE: 1/27/15

DATE	REVISION	DESCRIPTION
11/01/15	REVISE SHEET NUMBER	
01/10/16	REVISE SHEET NUMBER	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director: *[Signature]* DATE: 2-11-15
Chief, Division of Land Development: *[Signature]* DATE: 2-11-15
Chief, Development Engineering Division: *[Signature]* DATE: 2-5-15

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805

Address Chart

Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT: WILDE LAKE MIDDLE SCHOOL SECTION/AREA: 11/1 PARCEL: 280
PLAT NOS.: 23161-23163 TAX MAP: 29,35 ELEC. DIST.: FIFTH CENSUS TR.: 6054
L15/F.90&91 BLOCK NO.: 24,6 ZONE: NT
WATER CODE: E-30 SEWER CODE: 5523900

PAVEMENT MARKINGS & SIGNAGE PLAN

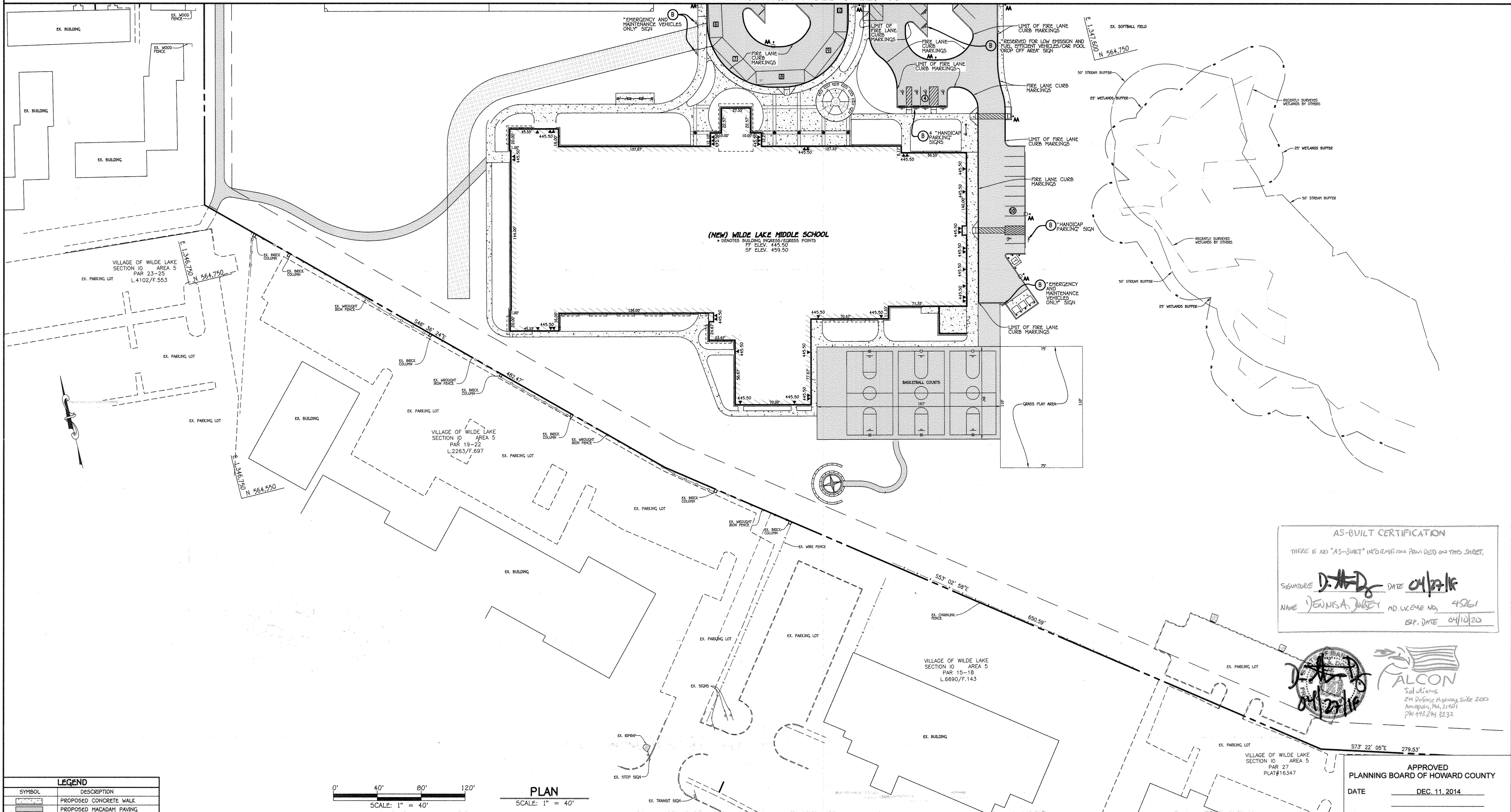
As-Built VILLAGE OF WILDE LAKE SECTION 11 AREA 1 LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: JANUARY 30, 2015

SHEET 38 OF 54

I:\2011\1059\Engineering\Drawings\1059-4002-SDP SHEET 38-39 PAVEMENT MARKING.dwg, SIGNAGE 1, 1/27/2015 12:52:26 PM, 11

FOR CONTINUATION SEE SHEET 3B

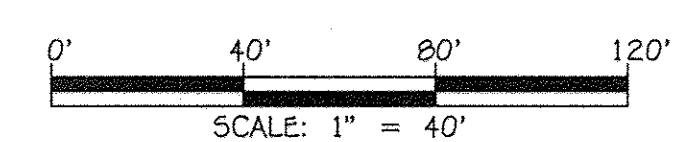


AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE: *D. H. D.* DATE: 04/10/16
 NAME: JENKINS, JAMES MD. LICENSE NO. 45261
 EXP. DATE: 04/10/20

D. H. D.
 04/10/16
ALCON
 SOLUTIONS
 201 Defense Highway, Suite 200
 Annapolis, Md. 21401
 PH: 410.274.3232

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

LEGEND	
	PROPOSED CONCRETE WALK
	PROPOSED MACADAM PAVING



PLAN
 SCALE: 1" = 40'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10072 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2995

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2016."
Charles J. Crovo
 CHARLES J. CROVO, SR., P.E. 1/20/15 DATE

DATE	DESCRIPTION	REVISION BLOCK
11/21/10	REMOVE REPAIRING WALL & REMOVE SHEET NUMBER	
09/11/15	REMOVE SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>William A. Mosley</i>	2-11-15	Date
Director - Department of Planning and Zoning		
<i>Kate Shroder</i>	2-11-15	Date
Chief, Division of Land Development		
<i>Phil Clark</i>	2-5-15	Date
Chief, Development Engineering Division		

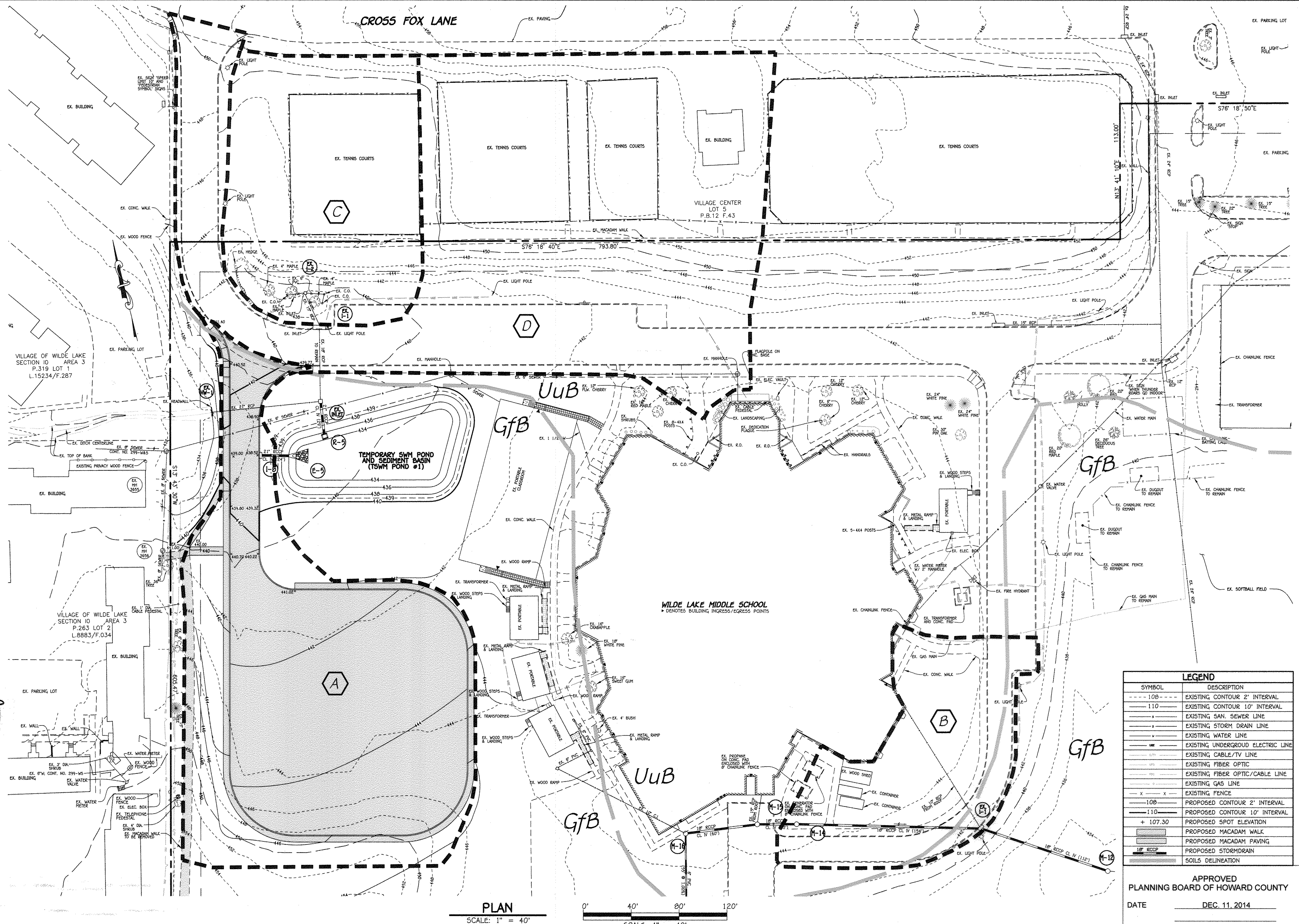
PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA	PARCEL			
WILDE LAKE MIDDLE SCHOOL	11/1	280			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24.6	NT	29.35	FIFTH	6054
WATER CODE	SEWER CODE				
E-30	5523900				

PAVEMENT MARKINGS & SIGNAGE PLAN
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 10 AREA 1
 LOT 1
WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 39 OF 54

I:\2011\11055\Engineering\Drawings\1105-400-SDP-SHEET 39-39 PAVEMENT MARKING.dwg, SIGNAGE 2, 1/27/2015 12:52:28 PM, 1:1



AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE: *D. A. D.* DATE: 04/22/15
 NAME: DEJUNIS A. DRESEY MD. LICENSE NO. 45261
 EXP. DATE: 04/10/20



DRAINAGE AREA DATA			
DRAINAGE AREA	STRUCTURE NO.	AREA (AC.)	% IMP.
A	1-B TEMP	1.56	0.70
B	1-5 TEMP	0.60	0.52
C	EX 1-1	0.80	0.51
D	EX 1-2	2.20	0.61

FALCON Solutions
 201 Defense Highway, Suite 200
 Annapolis, Md, 21401
 PH: 444.274.3232

SOILS LEGEND		
SOIL	NAME	GROUP
BoA	BAILE SILT LOAM, 0%-3% SLOPES, K VALUE=0.32	D
GfB	GLADSTONE-URBAN COMPLEX, 0%-8% SLOPES, K VALUE=0.20	B
UuB	URBAN LAND, UDORTHENTS COMPLEX, 0%-8% SLOPES, K VALUE NOT DEFINED BY NRCS D	D

LEGEND	
SYMBOL	DESCRIPTION
--- 100 ---	EXISTING CONTOUR 2' INTERVAL
--- 110 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING CABLE/TV LINE
---	EXISTING FIBER OPTIC
---	EXISTING FIBER OPTIC/CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FENCE
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
+ 107.30	PROPOSED SPOT ELEVATION
---	PROPOSED MACADAM PAVING
---	PROPOSED STORMDRAIN
---	SOILS DELINEATION

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2095

"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. 13204, Expiration Date: November 3, 2016."

Charles A. Crovo, Sr., P.E.
 CHARLES A. CROVO, SR., P.E.
 1/27/15 DATE

DATE	REVISION SHEET NUMBER	DESCRIPTION
1/21/10	REVISION SHEET NUMBER	
2-11-15		Date
2-11-15		Date
2-5-15		Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING
William A. Mosley 2-11-15 Date
 Director - Department of Planning and Zoning
John E. Dwyer 2-11-15 Date
 Chief, Division of Land Development
Phil Edwards 2-5-15 Date
 Chief, Development Engineering Division

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



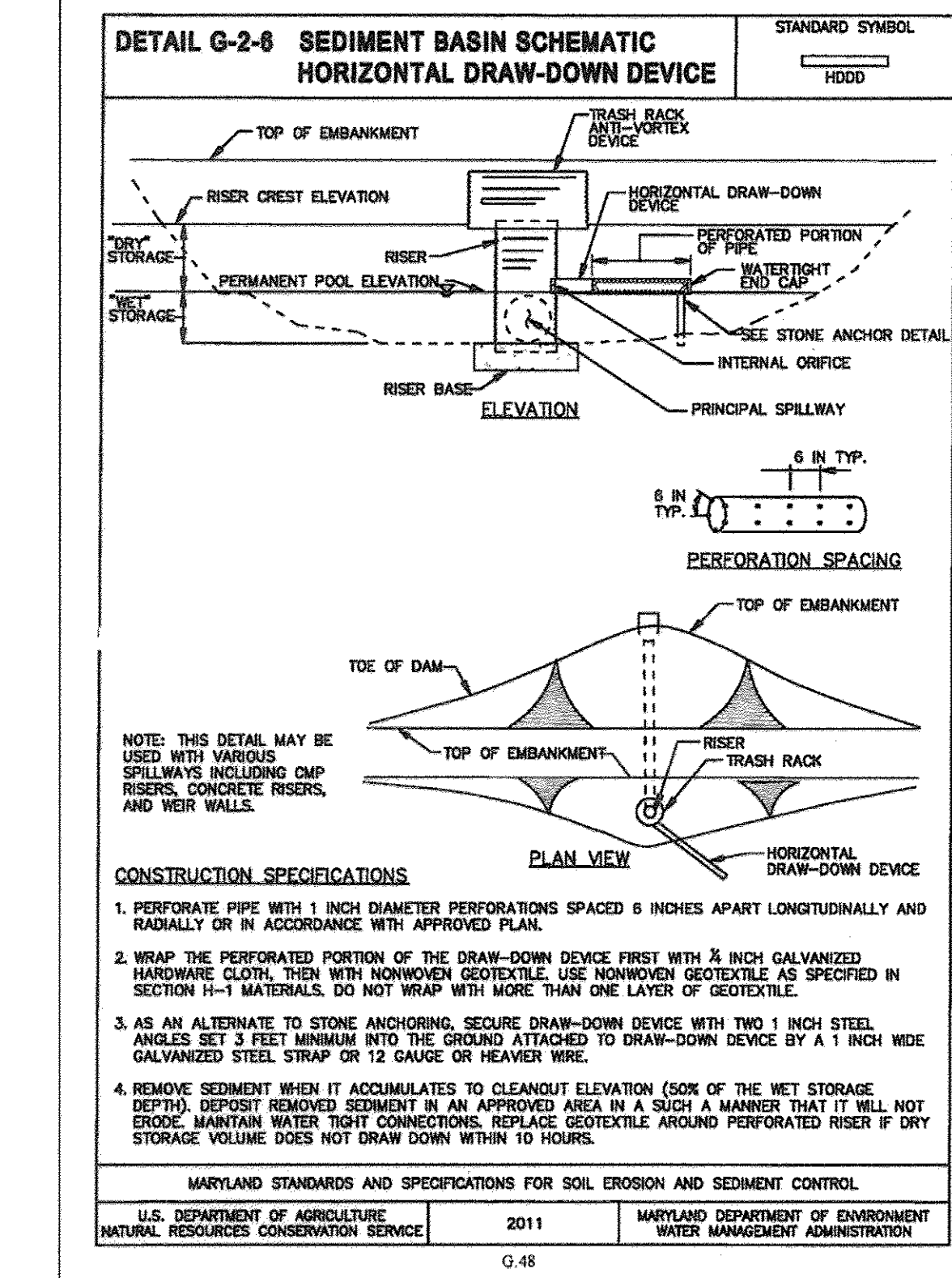
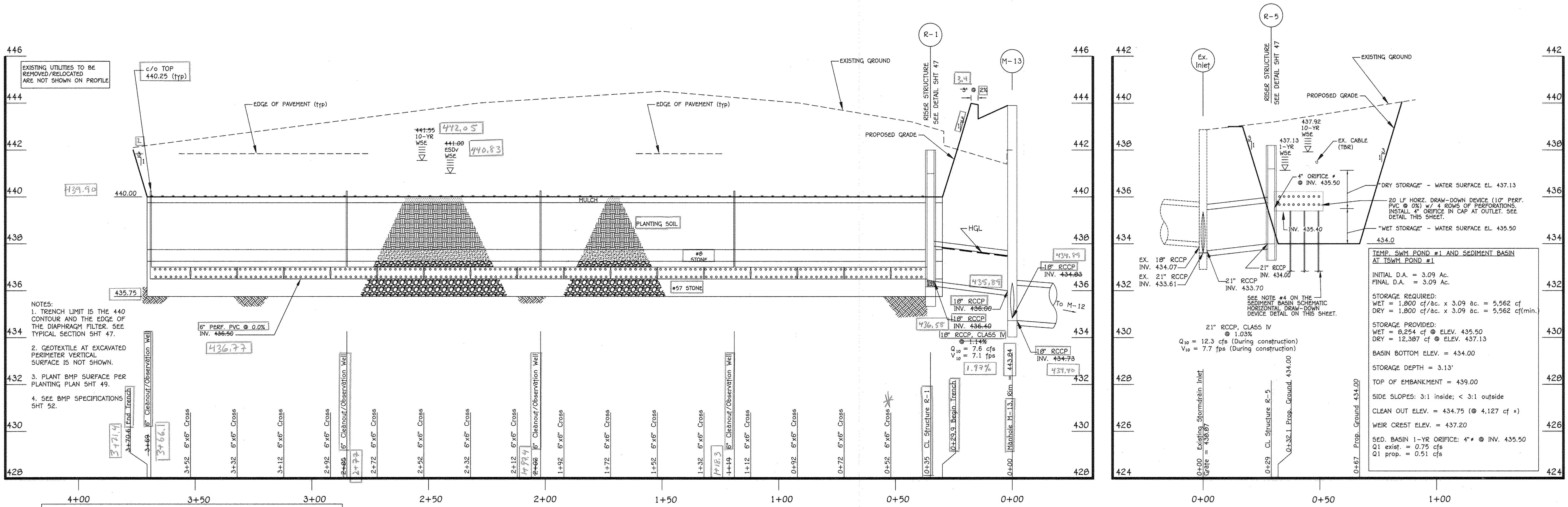
Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24.6	NT	29.35	FIFTH	6054

WATER CODE	SEWER CODE
E-30	5523900

SOILS AND DRAINAGE AREA MAP
TEMPORARY PARKING LOT
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 10 AREA 1
 LOT 1
WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40' DATE: JANUARY 30, 2015
 SHEET 40 OF 54



BMP #1 UNDERDRAIN OUTFALL PROFILE
 SCALE:
 HORIZ: 1" = 20'
 VERT: 1" = 2'

* CROSSES NOT CAPTURED
 (BELOW GROUND)

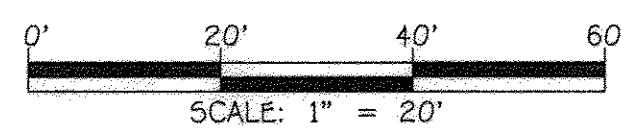
TEMP. SWM POND #1 AND SEDIMENT BASIN @ TSWM POND #1 OUTFALL PROFILE
 SCALE:
 HORIZ: 1" = 20'
 VERT: 1" = 2'

No SWM AS-BUILT INFO REQ'D

AS-BUILT CERTIFICATION
 I HEREBY CERTIFY, BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND THAT THIS PLAN MEETS THE APPROVED PLAN AND SPECIFICATIONS.
 SIGNATURE: *[Signature]* DATE: 01/22/18
 NAME: DENNIS A. DORSEY MD. LICENSE NO.: 45261 EXP. DATE: 01/10/20



[Signature]
 01/22/18



APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FILE
 ELIJAH CITY, MARYLAND 21046
 (410) 461 - 2895

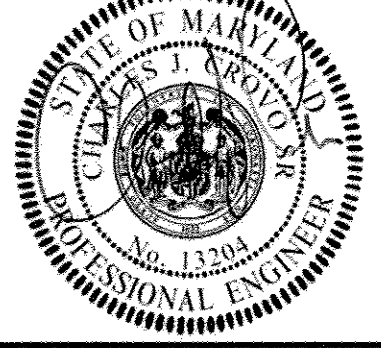
ENGINEER'S CERTIFICATE
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature of Engineer: *[Signature]* Date: 1/27/15
DEVELOPER'S CERTIFICATE
 "I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Signature of Developer: *[Signature]* Date: 1/27/15

"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. 13204, Expiration Date: November 3, 2016."
 Signature: *[Signature]* Date: 1/27/15
 CHARLES J. CROVO, SR., P.E.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *[Signature]* Date: 1/27/15
 John P. Blum, Howard SCD

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Signature: *[Signature]* Date: 2-11-15
 Director - Department of Planning and Zoning
 Signature: *[Signature]* Date: 2-11-15
 Chief, Division of Land Development
 Signature: *[Signature]* Date: 2-5-15
 Chief, Development Engineering Division

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart

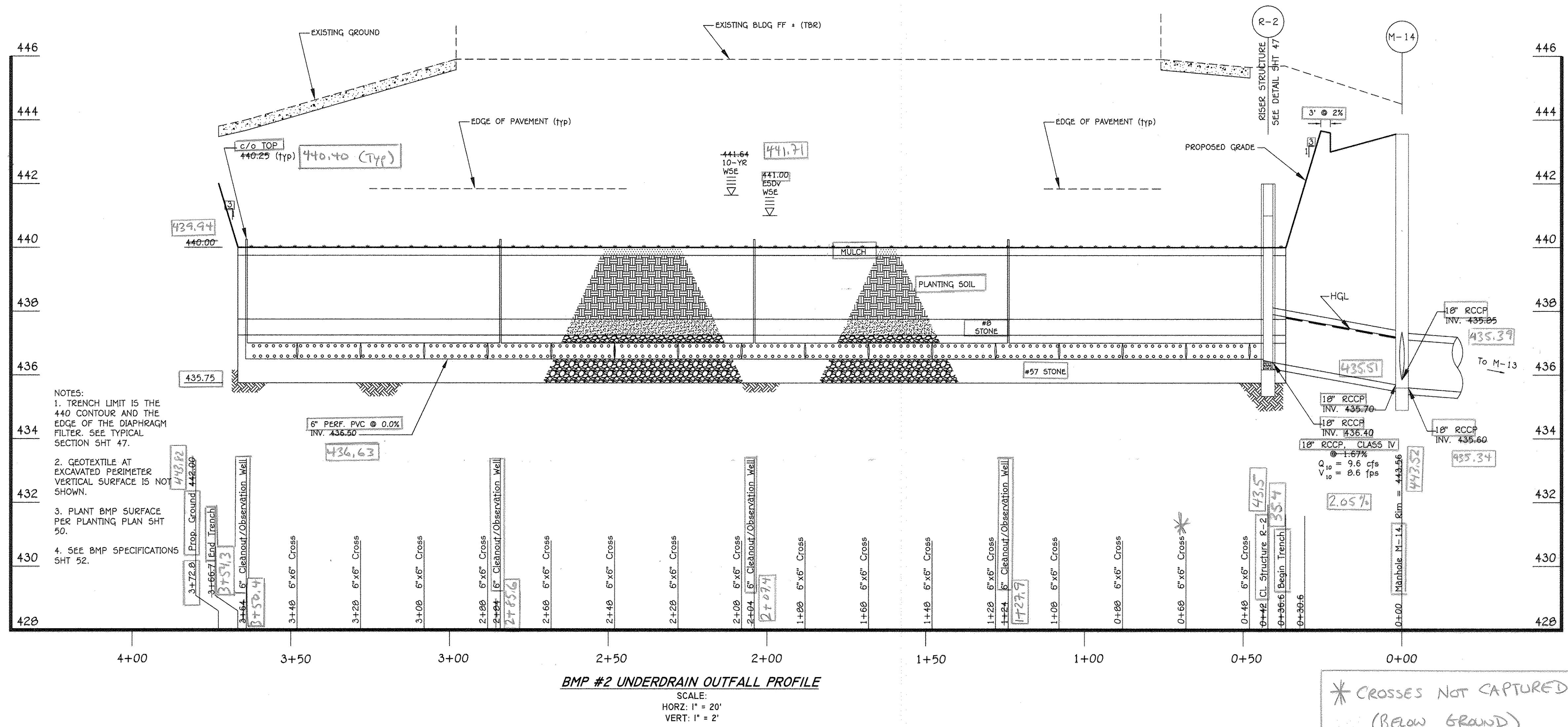
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24.6	NT	29.35	FIFTH	6054

WATER CODE: E-30 SEWER CODE: 5523900

BMP #1 UNDERDRAIN PROFILE & TEMPORARY SWM POND #1 OUTFALL PROFILE
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 20' DATE: JANUARY 30, 2015
 SHEET 41 OF 54

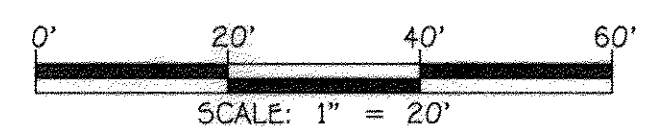


AS-BUILT CERTIFICATION

I HEREBY CERTIFY, BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND THAT THIS PLAN MEETS THE APPROVED PLAN AND SPECIFICATIONS.

SIGNATURE: *[Signature]* DATE: 04/27/15

NAME: DENNIS A. DODSON, MD. LICENSE NO. 45261 EXP. DATE: 04/10/20



APPROVED
 PLANNING BOARD OF HOWARD COUNTY

DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELIJAH CITY, MARYLAND 21046
 (410) 461-2999

"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. 13204, Expiration Date: November 3, 2016."

[Signature]
 CHARLES J. PROVO, SR., P.E.
 DATE: 1/27/15

11/01/10	REVISION SHEET NUMBER	
01/11/10	REVISION SHEET NUMBER	
DATE	DESCRIPTION	
REVISION BLOCK		
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	2-11-15	Date
Director - Department of Planning and Zoning		
<i>[Signature]</i>	2-11-15	Date
Chief, Division of Land Development		
<i>[Signature]</i>	2-5-15	Date
Chief, Development Engineering Division		

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



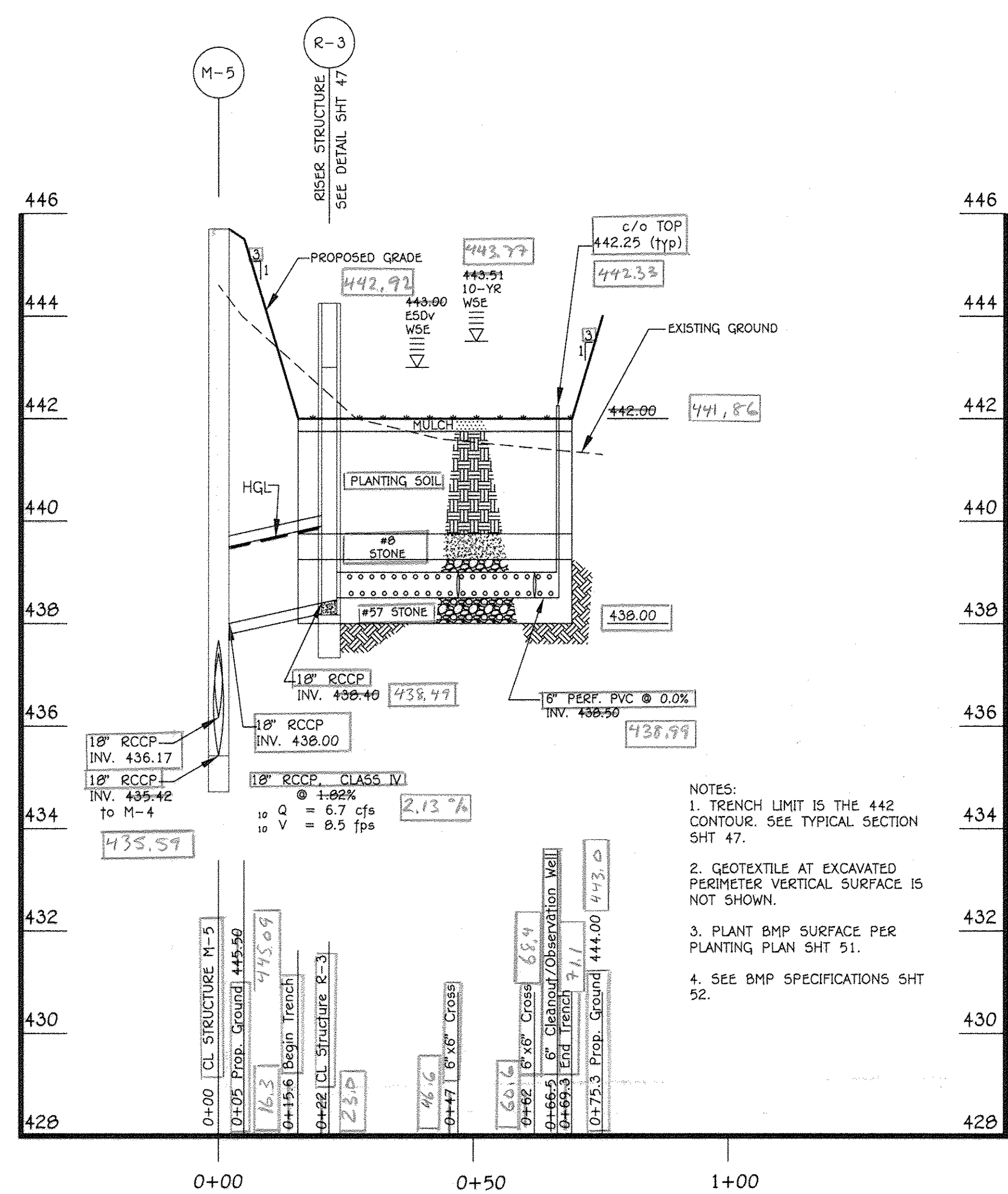
Address Chart					
Parcel Number	Street Address				
280	10401 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA	PARCEL			
WILDE LAKE MIDDLE SCHOOL	11/1	280			
PLAT NOS. 23161-23163 L 15/F 90&91	BLOCK NO. 24,6	ZONE NT	TAX MAP 29.35	ELEC. DIST. FIFTH	CENSUS TR. 6054
WATER CODE E-30	SEWER CODE 5523900				

BMP #2 UNDERDRAIN OUTFALL PROFILE

AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
WILDE LAKE MIDDLE SCHOOL

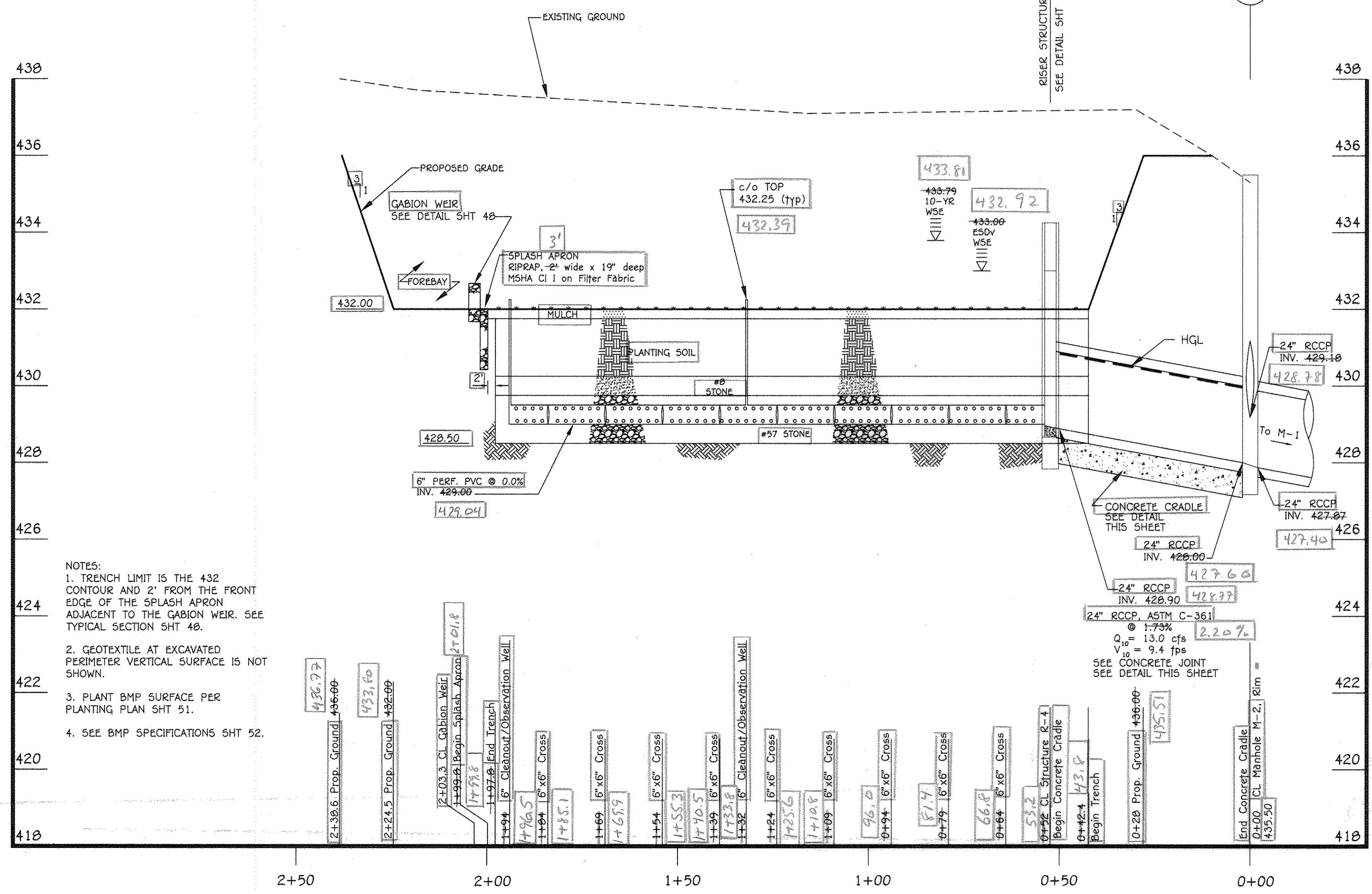
ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 20' DATE: JANUARY 30, 2015

SHEET 42 OF 54



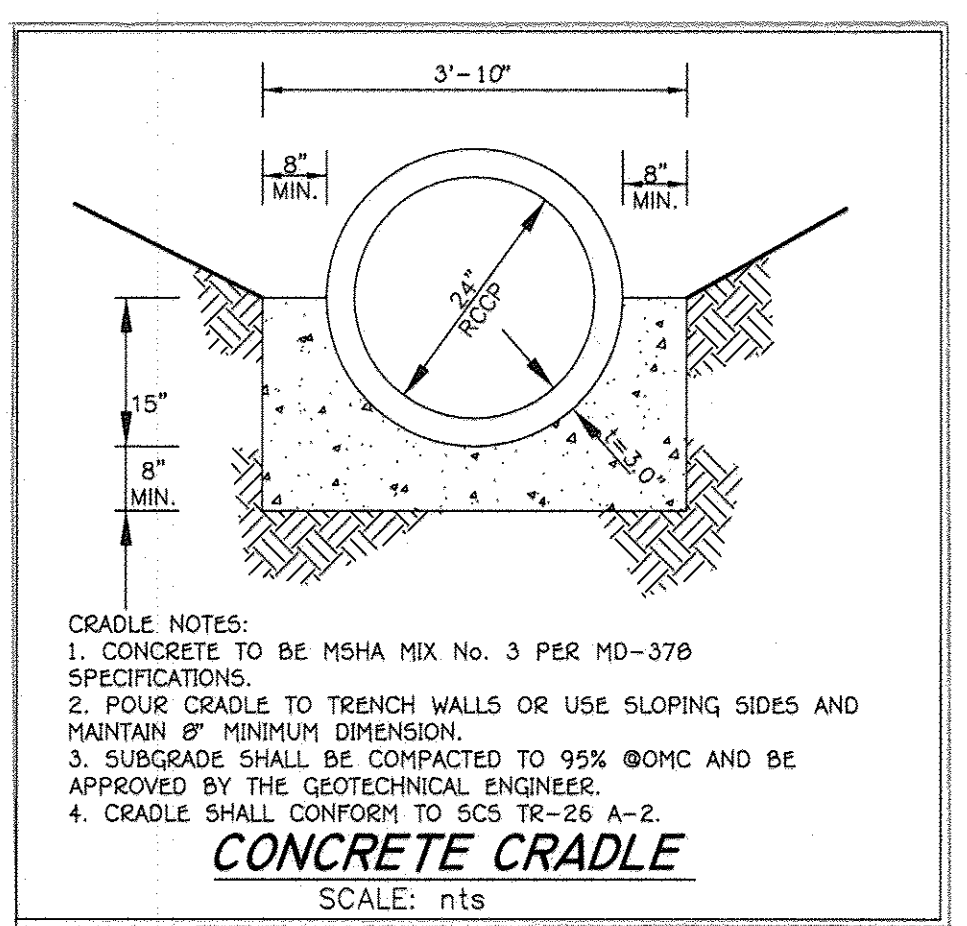
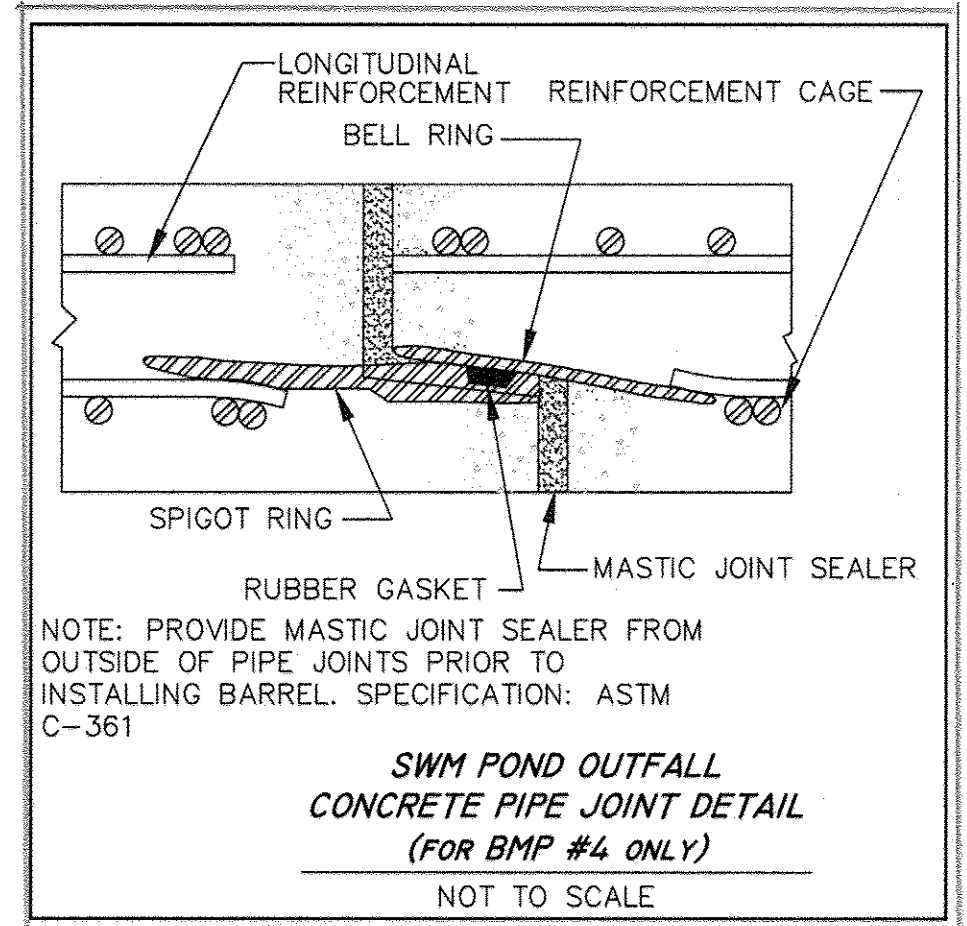
BMP #3 UNDERDRAIN OUTFALL PROFILE

SCALE:
HORIZ: 1" = 20'
VERT: 1" = 2'



BMP #4 UNDERDRAIN OUTFALL PROFILE

SCALE:
HORIZ: 1" = 20'
VERT: 1" = 2'

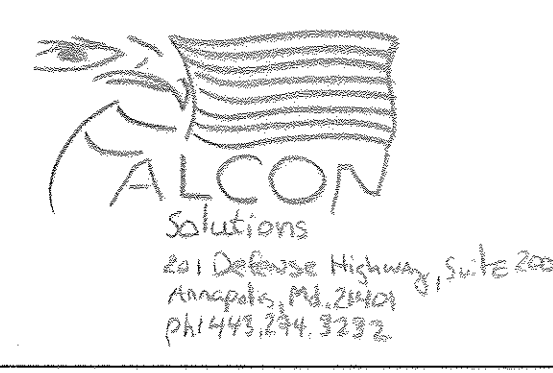


AS-BUILT CERTIFICATION

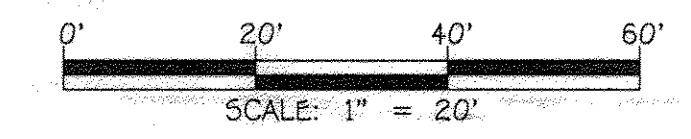
I HEREBY CERTIFY, BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND THAT THIS PLAN MEETS THE APPROVED PLAN AND SPECIFICATIONS.

SIGNATURE: *[Signature]* DATE: 04/27/16

NAME: DENISA A. DORSET MD LICENSE NO. 48261 EXP. DATE: 04/10/20



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014



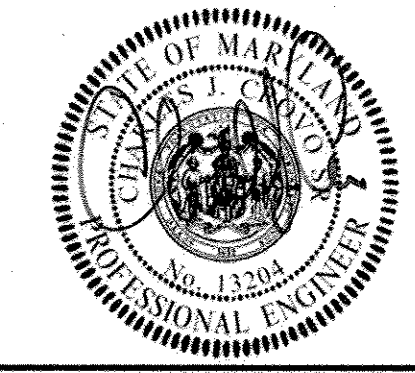
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLIOTT CITY, MARYLAND 21114
(410) 461-2895

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2016."

[Signature]
CHARLES J. PROVO, SR., P.E.
DATE: 1/27/15

11/21/16	REVISION SHEET NUMBER	
9/11/15	REVISION SHEET NUMBER	
DATE	DESCRIPTION	
	REVISION BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	2-11-15	Date
Director - Department of Planning and Zoning		
<i>[Signature]</i>	2-11-15	Date
Chief, Division of Land Development		
<i>[Signature]</i>	2-5-15	Date
Chief, Development Engineering Division		

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



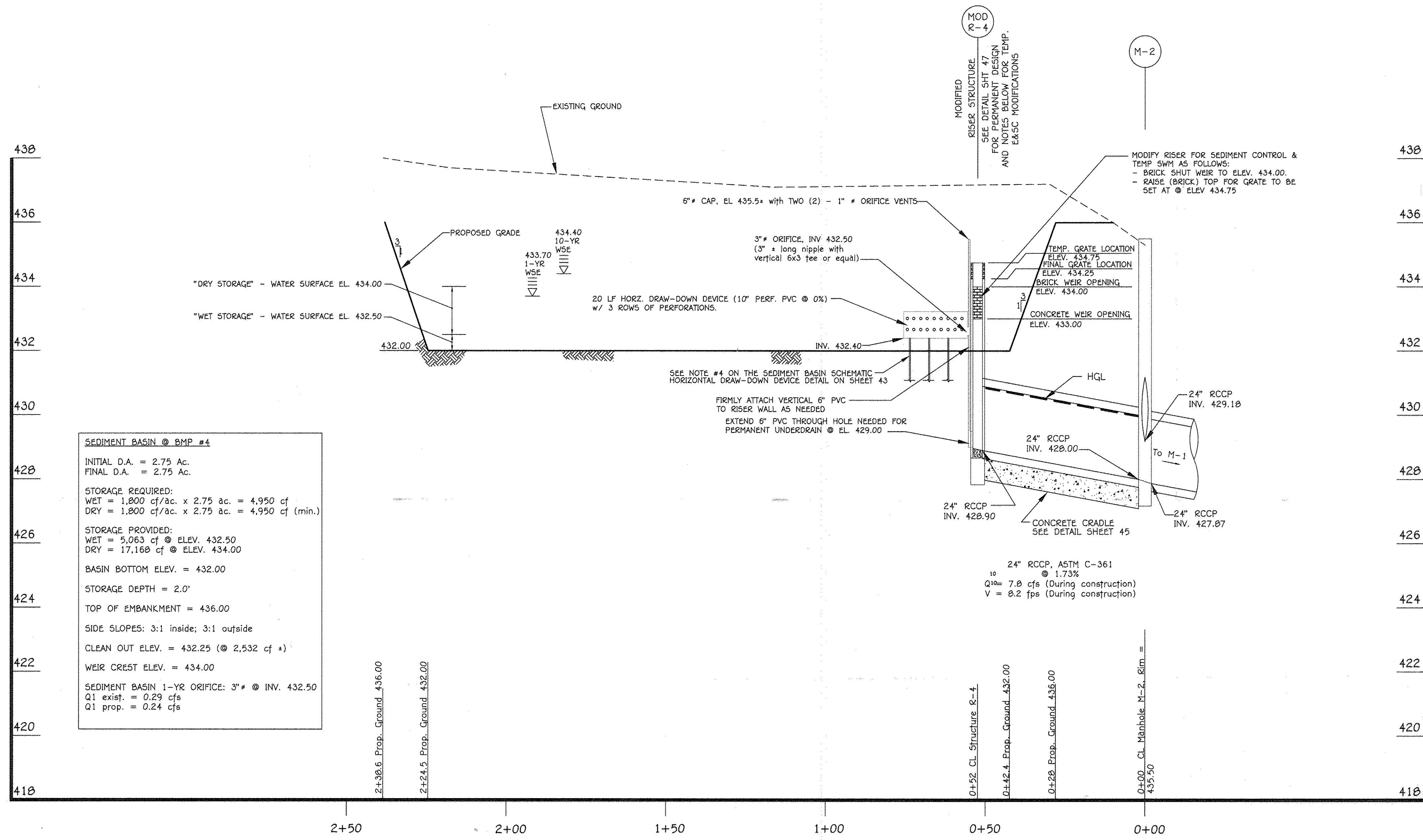
Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PARCEL	280				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90891	24.6	NT	29.35	FIFTH	6054
WATER CODE	E-30	SEWER CODE	5523900		

BMP #3 & BMP #4 UNDERDRAIN OUTFALL PROFILES

As-Built VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY 30, 2015

SHEET 43 OF 54



SEDIMENT BASIN @ BMP #4
 INITIAL D.A. = 2.75 Ac.
 FINAL D.A. = 2.75 Ac.

STORAGE REQUIRED:
 WET = 1,800 cf/ac. x 2.75 ac. = 4,950 cf
 DRY = 1,800 cf/ac. x 2.75 ac. = 4,950 cf (min.)

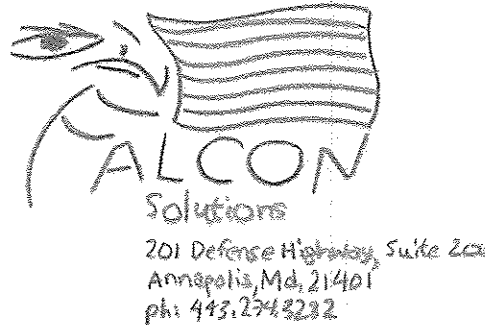
STORAGE PROVIDED:
 WET = 5,063 cf @ ELEV. 432.50
 DRY = 17,168 cf @ ELEV. 434.00

BASIN BOTTOM ELEV. = 432.00
 STORAGE DEPTH = 2.0'
 TOP OF EMBANKMENT = 436.00
 SIDE SLOPES: 3:1 inside; 3:1 outside
 CLEAN OUT ELEV. = 432.25 (2,532 cf @)
 WEIR CREST ELEV. = 434.00

SEDIMENT BASIN 1-YR ORIFICE: 3" @ INV. 432.50
 Q1 exist. = 0.29 cfs
 Q1 prop. = 0.24 cfs

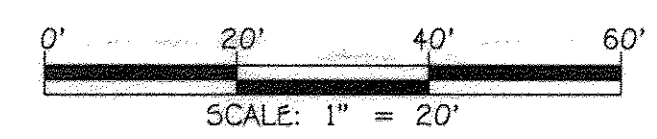
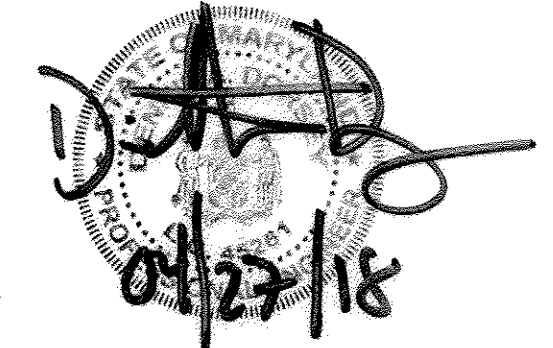
**SEDIMENT BASIN @ BMP #4 w/ TEMPORARY SWM
 OUTFALL PROFILE**

SCALE:
 HORIZ: 1" = 20'
 VERT: 1" = 2'



AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

SIGNATURE: *[Signature]* DATE: 04/27/18
 NAME: DENNIS A. DORSEY MD LICENSE NO. 45261
 EXP. DATE: 07/10/20



APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2299

ENGINEER'S CERTIFICATE
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer: *[Signature]* DATE: 1/27/15

"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. 13204. Expiration Date: November 3, 2016."

Signature: *[Signature]* DATE: 1/27/15
 CHARLES J. CROKO, SR., P.E.

DEVELOPER'S CERTIFICATE
 "I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *[Signature]* DATE: 1/27/15

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* DATE: 1/27/15
 Howard SCD

DATE	REVISION	DESCRIPTION
1/21/15	REVISE SHEET NUMBER	
2/11/15	REVISE SHEET NUMBERS	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Director - Department of Planning and Zoning: *[Signature]* DATE: 2-11-15
 Chief, Division of Land Development: *[Signature]* DATE: 2-11-15
 Chief, Development Engineering Division: *[Signature]* DATE: 2-5-15

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23181-23183 L15/F.90&91	24.6	NT	29.35	FIFTH	6054

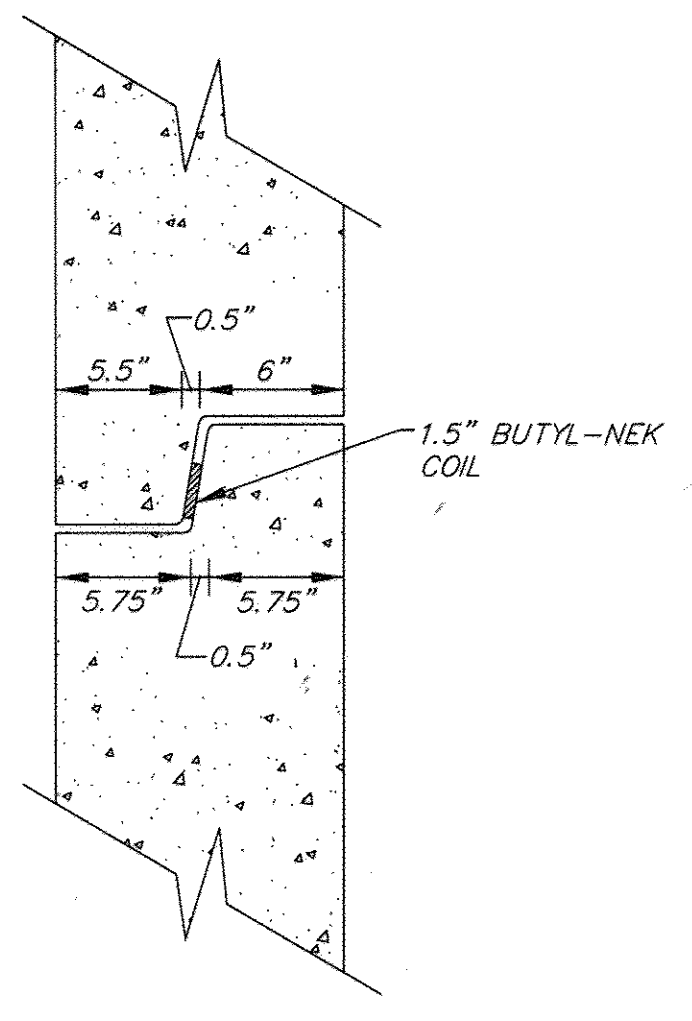
WATER CODE: E-30 SEWER CODE: 5523900

**TEMPORARY STORMWATER MANAGEMENT
 AT BMP #4 OUTFALL PROFILE**

AS-Built VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
 WILDE LAKE MIDDLE SCHOOL

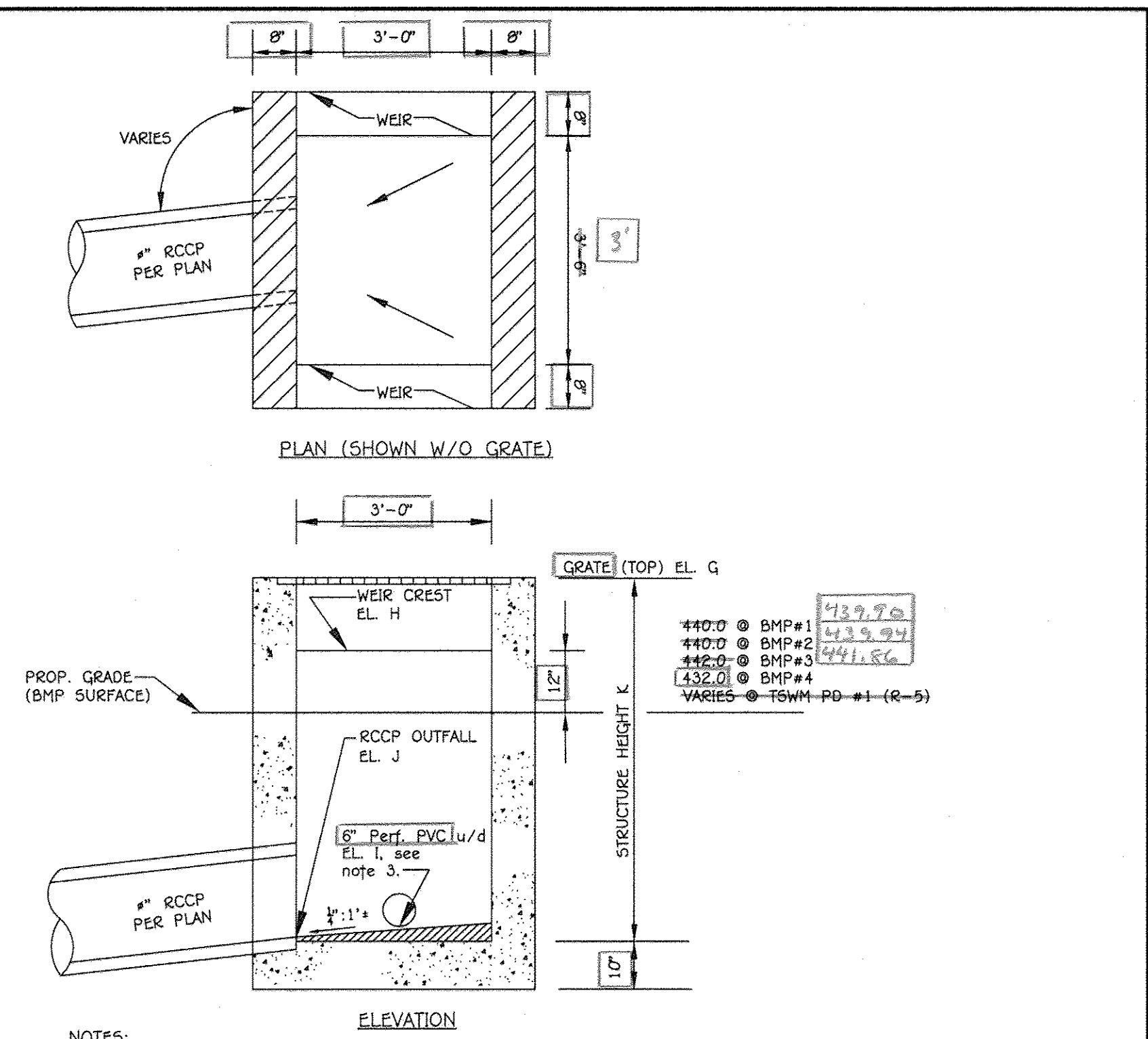
ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 20' DATE: JANUARY 30, 2015

SHEET 44 OF 54



RISER JOINT DETAIL
NTS

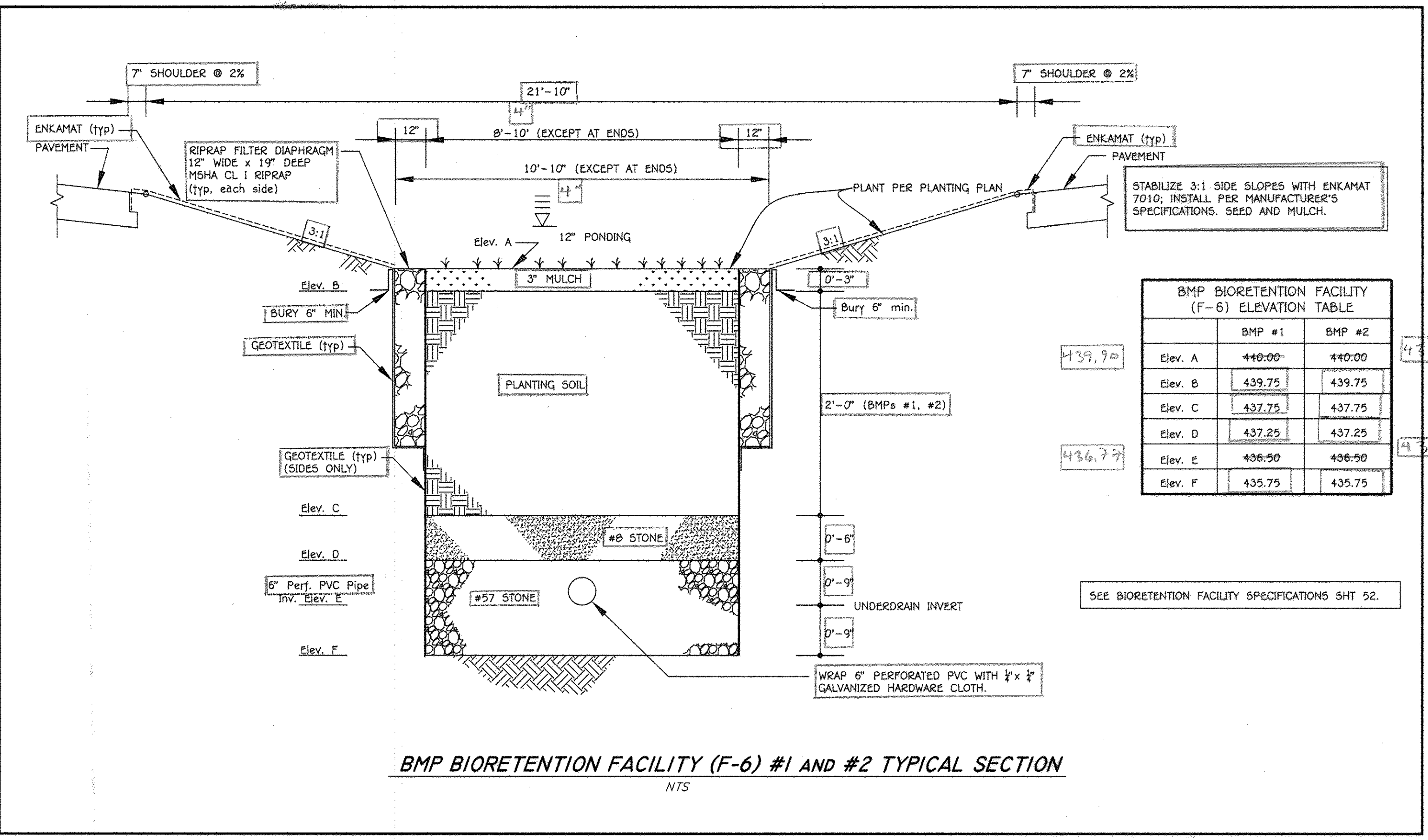
- NOTES:
1. Riser joints shall join evenly and be watertight. Parge joints after installation.
 2. The referenced joint and joint sealant material is used by Frederick Precast, Inc. Similar joints may be used with shop drawing approval by the engineer.



- NOTES:
1. SEE MSHA STD DETAIL MD-370.11 FOR DETAILS NOT SHOWN ABOVE.
 2. USE DOUBLE OPENING WITH NO CONCRETE GUTTER APPROACHES.
 3. PVC UNDERDRAIN MAY ENTER INLET AT AN ANGLE TO MAINTAIN IN CENTER OF BMP. SEE SITE DEVELOPMENT PLAN FOR UNDERDRAIN ENTRANCE WALL LOCATION.
 4. SLOPE RISER INVERT 1/2" TOWARD RCP OUTFALL.

	R-1 (BMP #1)	R-2 (BMP #2)	R-3 (BMP #3)	R-4 (BMP #4)	R-5 (TSWM POND #1)	
ELEV. G	442.00	442.00	442.25	444.25	438.20	Top of Grate
ELEV. H	441.00	441.00	443.00	433.00	437.20	Weir Crest
ELEV. I	436.50	436.50	438.50	429.00	435.50	Inv. 6" Perfor. w/d R-1 thru R-4
ELEV. J	436.40	436.40	438.40	428.90	434.00	RCP Invert Out
ELEV. K	5'-10"	5'-10"	6'-6"	5'-6"	4'-5"	Structure Height

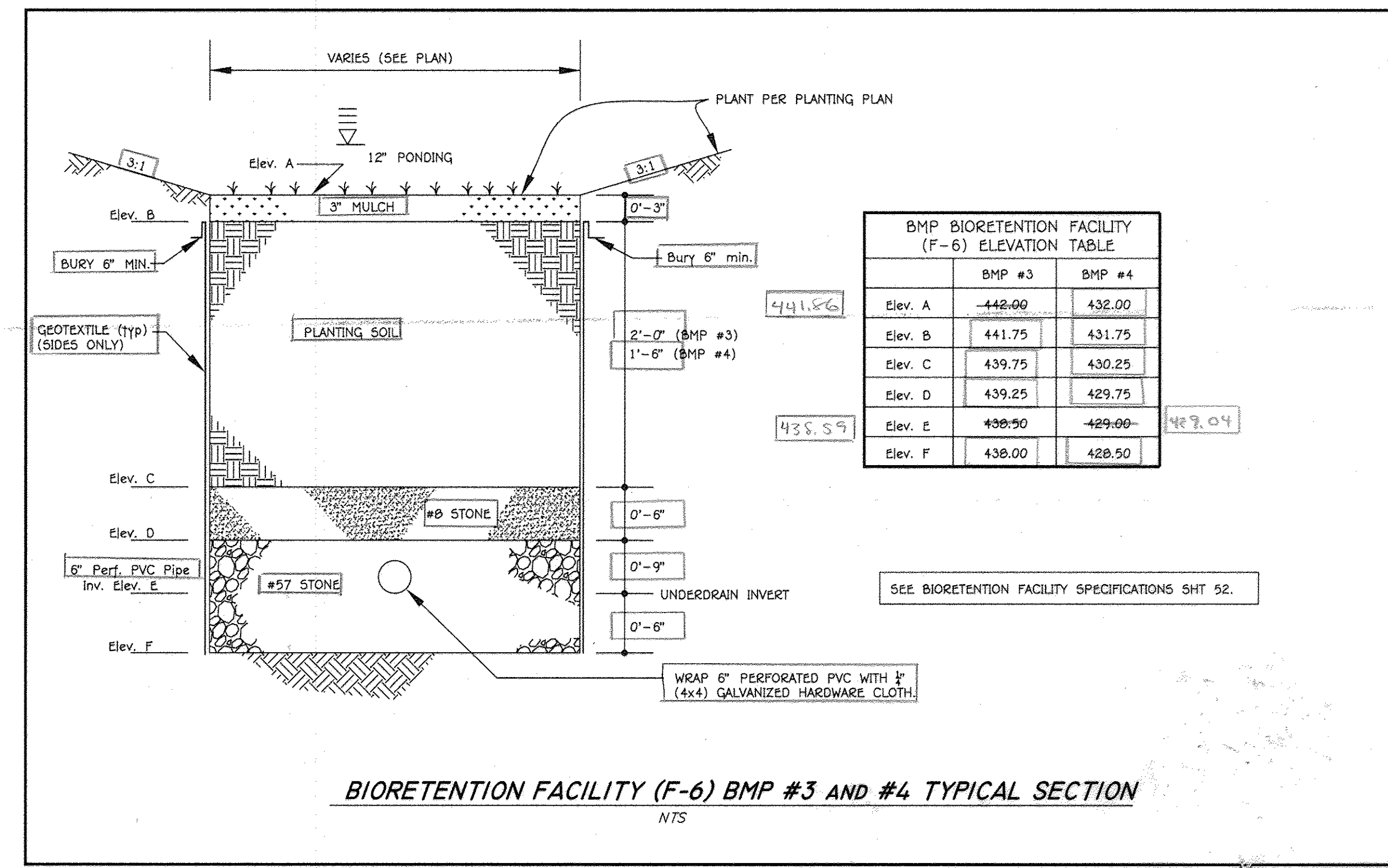
MODIFIED K-INLET TYPICAL SECTION FOR STRUCTURES R-1, R-2, R-3, R-4 & R-5
NTS



BMP BIORETENTION FACILITY (F-6) #1 AND #2 TYPICAL SECTION
NTS

	BMP #1	BMP #2
Elev. A	440.00	440.00
Elev. B	439.75	439.75
Elev. C	437.75	437.75
Elev. D	437.25	437.25
Elev. E	436.50	436.50
Elev. F	435.75	435.75

SEE BIORETENTION FACILITY SPECIFICATIONS SHT 52.



BIORETENTION FACILITY (F-6) BMP #3 AND #4 TYPICAL SECTION
NTS

	BMP #3	BMP #4
Elev. A	442.00	432.00
Elev. B	441.75	431.75
Elev. C	439.75	430.25
Elev. D	439.25	429.75
Elev. E	438.50	429.00
Elev. F	438.00	428.50

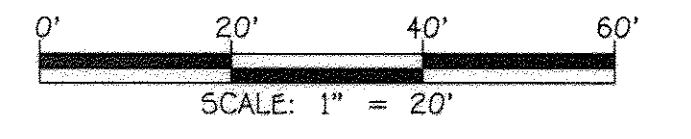
SEE BIORETENTION FACILITY SPECIFICATIONS SHT 52.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY, BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLAN AND THAT THIS PLAN MEETS THE APPROVED PLAN AND SPECIFICATIONS.

SIGNATURE: *D. Dorsey* DATE: 04/27/16

NAME: DENNIS A. DORSEY MD. LICENSE NO. 45261 EXP. DATE: 04/10/20



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
10772 BALTIMORE NATIONAL PIKE
ELKROTT CITY, MARYLAND 21042
(410) 461-2899

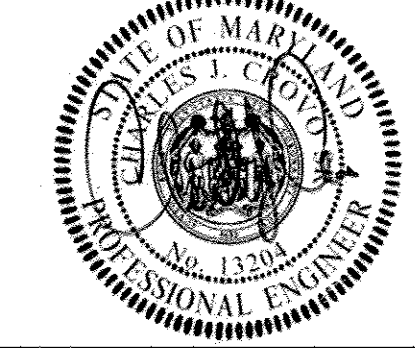
"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2016."

Charles J. Grovo 1/27/15
CHARLES J. GROVO, SR., P.E. DATE

DATE	REVISION	DESCRIPTION
11/01/16	REVISE SHEET NUMBER	
01/11/16	REVISE SHEET NUMBER	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director - Department of Planning and Zoning
William A. Maden 2-11-15
Date
Chief, Division of Land Development
Walter A. Dore 2-11-15
Date
Chief, Development Engineering Division
John E. H. 2-5-15
Date

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90891	24.6	NT	29.35	FIFTH	6054

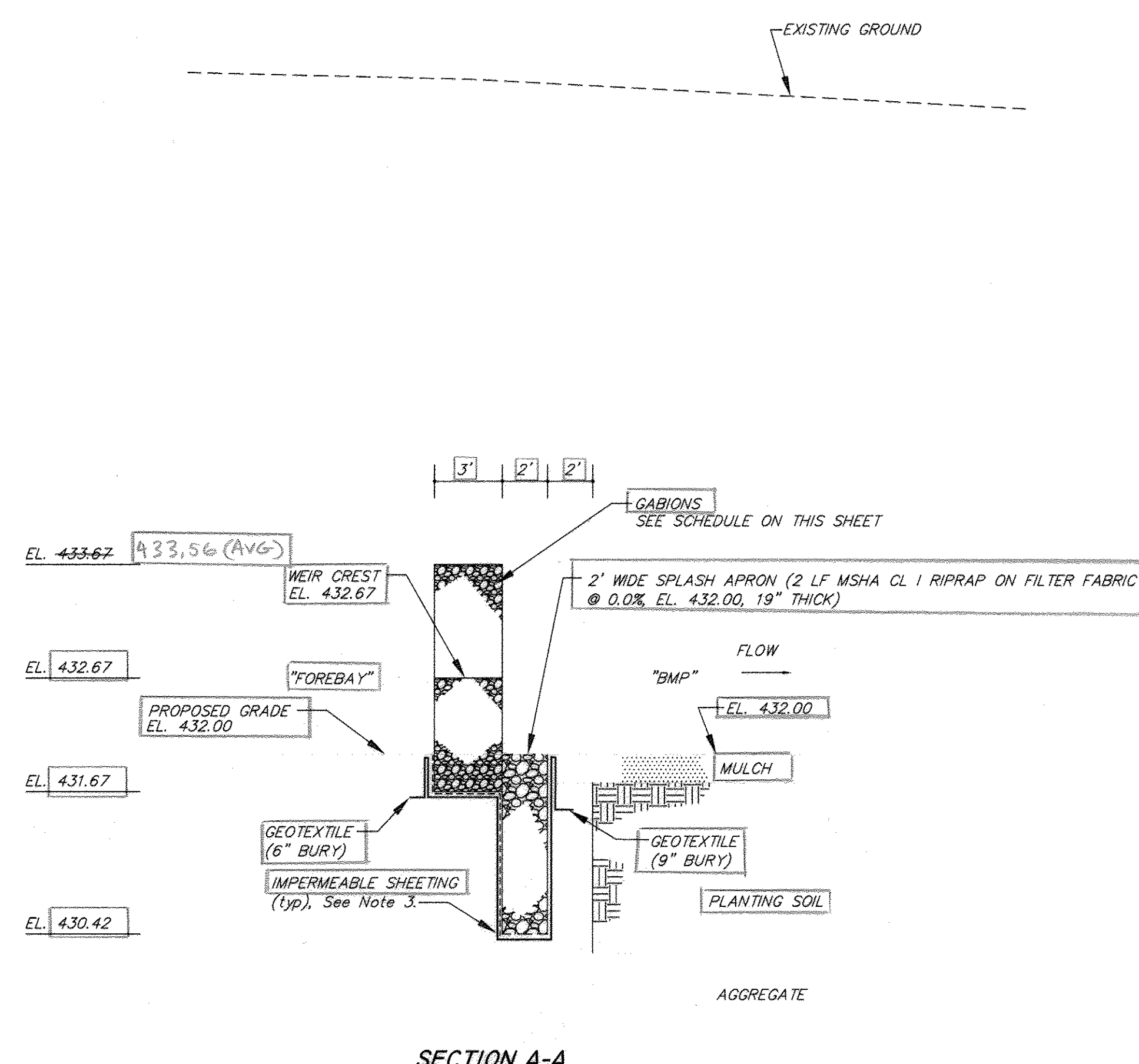
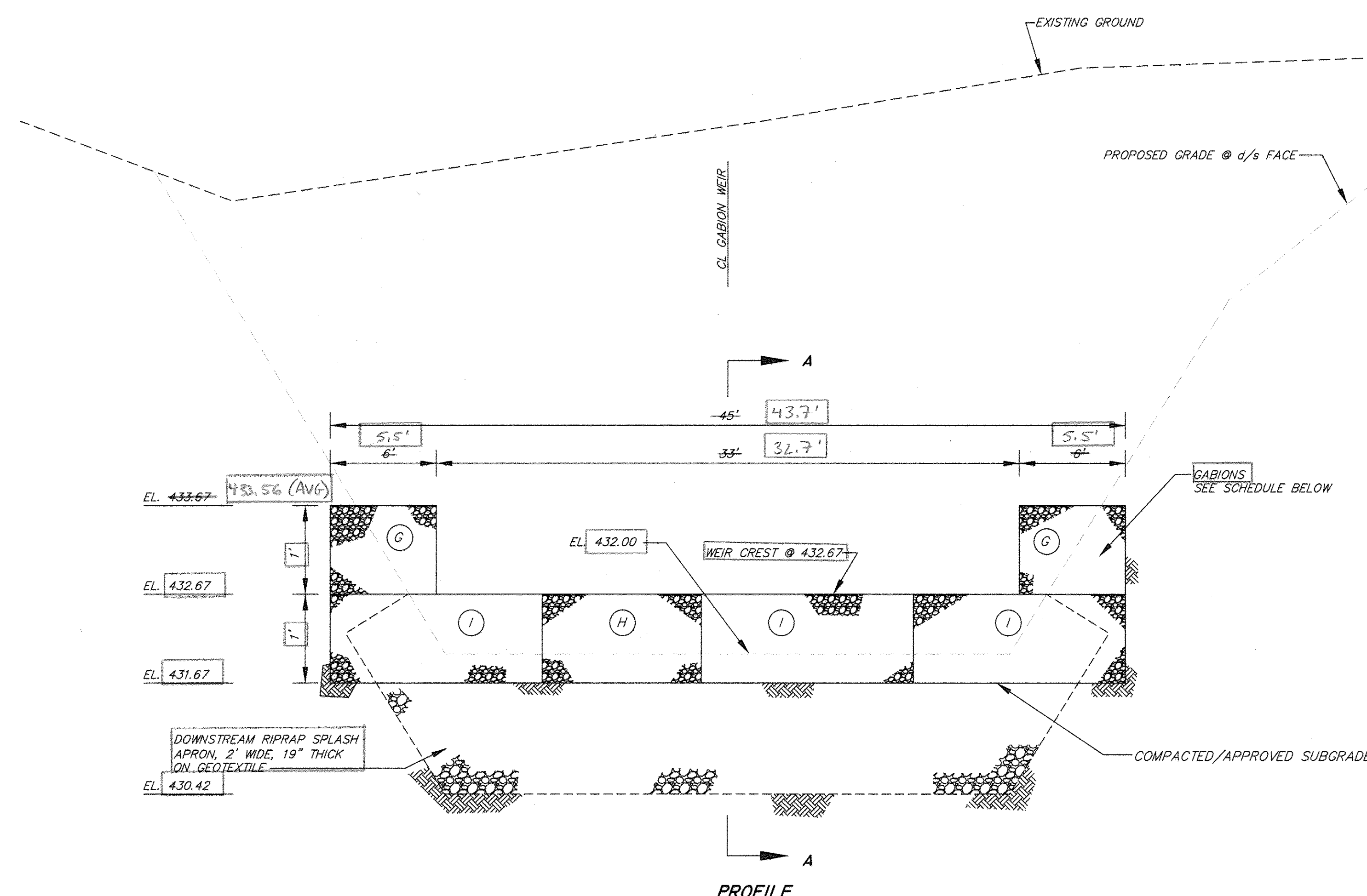
WATER CODE: E-30 SEWER CODE: 5523900

STORMWATER MANAGEMENT BMP DETAILS

VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY 30, 2015

SHEET 49 OF 54



GABION/FOREBAY WEIR OUTFALL NOTES

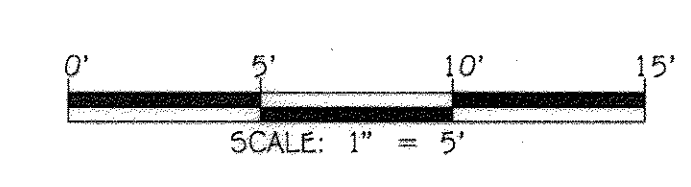
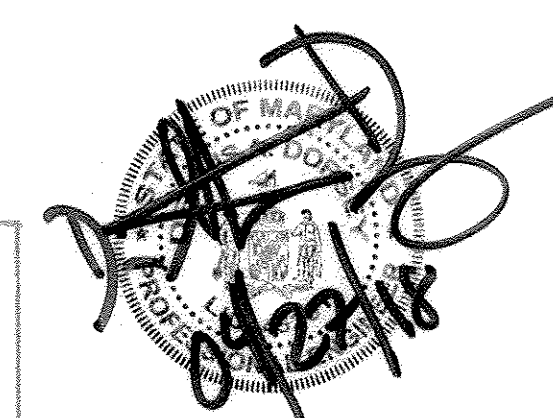
- Gabions shall be manufactured by Maccaferri Gabions Inc. or approved equal. The installation shall follow the manufacturer's specifications and installation guidelines.
- The gabion baskets shall be PVC coated and filled with clean 4" - 7" stone. Gabion stone shall be carefully placed as to create a tight interlocking stone wall with minimal voids.
- One sheet of 8 mil or greater vinyl/plastic sheeting, MIRAFI MCF-1212, or equal shall be placed on the buried upstream (forebay side) face of the gabion baskets next to the filter fabric. Use 2 ft overlap where applicable.
- Geotextile fabric (Mirafi 600x or approved equal) shall be placed against all buried gabions (including the buried top of gabions) including the impermeable layer on the upstream buried face.
- Gabions shall be carefully placed with no damaged wire. Earth foundation shall be firm. Fill soil around gabions shall be well-compacted (95%).
- Gabions shall be fastened together with lacing or rings per manufacturer's recommendations/specifications. Rings shall be per ASTM A975-97 section 6.3. Spacing shall not exceed 6". See Maccaferri's gabion installation guide.
- Minimum Gabion embedment into side slope is a 1'-0" bury at top of upper gabion.
- If additional gabions are needed to meet the minimum embedment into the side slopes, gabions can be "nested".

BMP #4 FOREBAY GABION WEIR SCHEDULE (Gabion Basket Quantities)		
MANUFACTURER'S LETTER CODE/DIMENSIONS	QUANTITY	
G 6'x3'x1'	2	
H 9'x3'x1'	1	
I 12'x3'x1'	3	

**BMP #4
FOREBAY GABION WEIR DETAIL**
SCALE:
HORZ: 1" = 5'
VERT: 1" = 1'



AS-BUILT CERTIFICATION
I HEREBY CERTIFY BY MY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS "AS-BUILT" PLAN AND THAT THIS PLAN MEETS THE APPROVED PLAN AND SPECIFICATIONS.
SIGNATURE: *[Signature]* DATE: 01/23/18
NAME: DENISE A. DORSEY MD LICENSE NO. 45261 EXP. DATE: 11/10/20



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

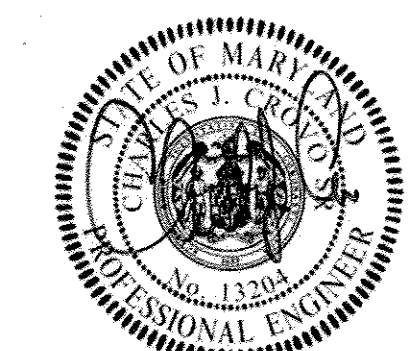
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10732 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2900

"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. 13204, Expiration Date: November 3, 2016."
[Signature]
CHARLES J. CERVINO, SR., P.E. 1/27/15 DATE

DATE	REVISION SHEET NUMBER	DESCRIPTION
11/21/16	01	ISSUE SHEET NUMBER
01/11/18	02	REVISED SHEET NUMBER
		REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director - Department of Planning and Zoning: *[Signature]* 2-11-15 Date
Chief, Division of Land Development: *[Signature]* 2-11-15 Date
Chief, Development Engineering Division: *[Signature]* 2-5-15 Date

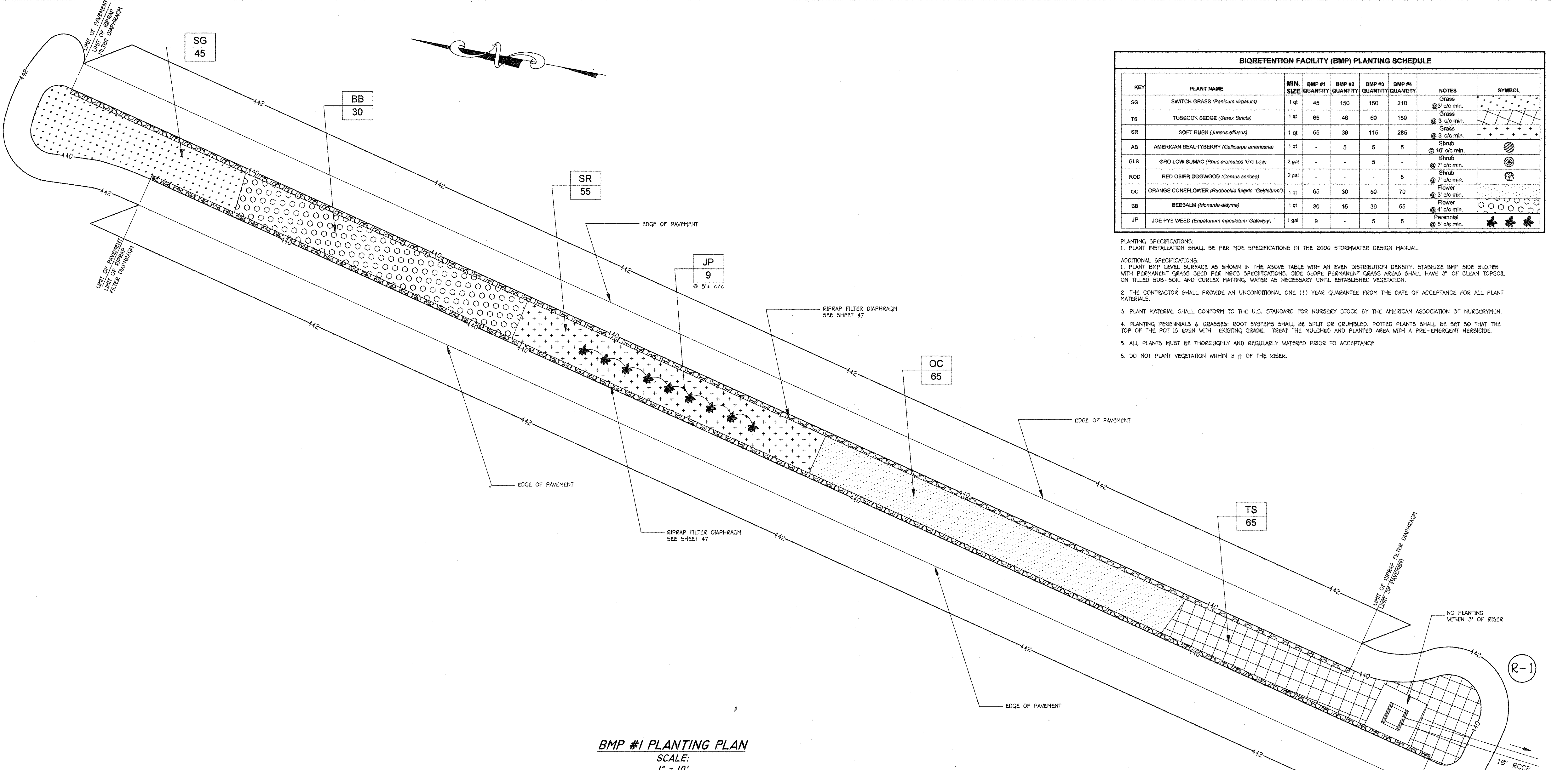
PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044
PROJECT	SECTION/AREA
WILDE LAKE MIDDLE SCHOOL	11/1
PLAT NOS. 23161-23163 L.15/F.90&91	BLOCK NO. 24.6
ZONE NT	TAX MAP 29.35
ELEC. DIST. FIFTH	CENSUS TR. 6054
WATER CODE E-30	SEWER CODE 5523900

**STORMWATER MANAGEMENT BMP #4
FOREBAY DETAIL**

AS-BUILT VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 5' DATE: JANUARY 30, 2015
SHEET 46 OF 54



BIORETENTION FACILITY (BMP) PLANTING SCHEDULE								
KEY	PLANT NAME	MIN. SIZE	BMP #1 QUANTITY	BMP #2 QUANTITY	BMP #3 QUANTITY	BMP #4 QUANTITY	NOTES	SYMBOL
SG	SWITCH GRASS (<i>Panicum virgatum</i>)	1 qt	45	150	150	210	Grass @ 3' c/c min.	[Symbol]
TS	TUSsock SEDGE (<i>Carex Stricta</i>)	1 qt	65	40	80	150	Grass @ 3' c/c min.	[Symbol]
SR	SOFT RUSH (<i>Juncus effusus</i>)	1 qt	55	30	115	285	Grass @ 3' c/c min.	[Symbol]
AB	AMERICAN BEAUTYBERRY (<i>Callicarpa americana</i>)	1 qt	-	5	5	5	Shrub @ 10' c/c min.	[Symbol]
GLS	GRO LOW SUMAC (<i>Rhus aromatica 'Gro Low'</i>)	2 gal	-	-	5	-	Shrub @ 7' c/c min.	[Symbol]
ROD	RED OSIER DOGWOOD (<i>Cornus sericea</i>)	2 gal	-	-	-	5	Shrub @ 7' c/c min.	[Symbol]
OC	ORANGE CONEFLOWER (<i>Rudbeckia fulgida 'Goldsturm'</i>)	1 qt	65	30	50	70	Flower @ 3' c/c min.	[Symbol]
BB	BEEBALM (<i>Monarda didyma</i>)	1 qt	30	15	30	55	Flower @ 4' c/c min.	[Symbol]
JP	JOE PYE WEED (<i>Eupatorium maculatum 'Gateway'</i>)	1 gal	9	-	5	5	Perennial @ 5' c/c min.	[Symbol]

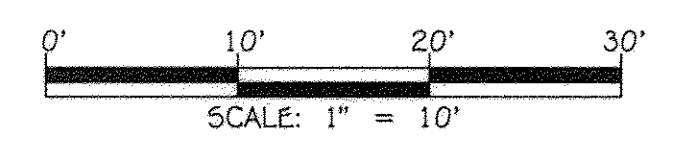
- PLANTING SPECIFICATIONS:
 1. PLANT INSTALLATION SHALL BE PER MDE SPECIFICATIONS IN THE 2000 STORMWATER DESIGN MANUAL.
- ADDITIONAL SPECIFICATIONS:
 1. PLANT BMP LEVEL SURFACE AS SHOWN IN THE ABOVE TABLE WITH AN EVEN DISTRIBUTION DENSITY. STABILIZE BMP SIDE SLOPES WITH PERMANENT GRASS SEED PER NRCS SPECIFICATIONS. SIDE SLOPE PERMANENT GRASS AREAS SHALL HAVE 3" OF CLEAN TOPSOIL ON TILLED SUB-SOIL AND CURLEX MATTING, WATER AS NECESSARY UNTIL ESTABLISHED VEGETATION.
 2. THE CONTRACTOR SHALL PROVIDE AN UNCONDITIONAL ONE (1) YEAR GUARANTEE FROM THE DATE OF ACCEPTANCE FOR ALL PLANT MATERIALS.
 3. PLANT MATERIAL SHALL CONFORM TO THE U.S. STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 4. PLANTING PERENNIALS & GRASSES: ROOT SYSTEMS SHALL BE SPLIT OR CRUMBLED. POTTED PLANTS SHALL BE SET SO THAT THE TOP OF THE POT IS EVEN WITH EXISTING GRADE. TREAT THE MULCHED AND PLANTED AREA WITH A PRE-EMERGENT HERBICIDE.
 5. ALL PLANTS MUST BE THOROUGHLY AND REGULARLY WATERED PRIOR TO ACCEPTANCE.
 6. DO NOT PLANT VEGETATION WITHIN 3 FT OF THE RISER.

BMP #1 PLANTING PLAN
 SCALE: 1" = 10'

AS-BUILT CERTIFICATION
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
 SIGNATURE: *[Signature]* DATE: 04/27/18
 NAME: DENNIS A. DORSEY MD. LICENSE NO. 45261
 EXP. DATE: 04/10/25



APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: DEC. 11, 2014



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

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2016."
 CHARLES J. GROVO, SR., P.E. 1/27/15 DATE

DATE	REVISION SHEET NUMBER	DESCRIPTION
11/21/16	REVISION SHEET NUMBER	
9/11/16	REVISION SHEET NUMBER	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Director - Department of Planning and Zoning: 2-11-15 Date
 Chief, Division of Land Development: 2-11-15 Date
 Chief, Development Engineering Division: 2-6-15 Date

PREPARED FOR
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HARRIET TUBMAN BUILDING
 2045 HARRIET TUBMAN LANE
 COLUMBIA, MARYLAND 21044
 Attention: SCOTT WASHINGTON
 410-313-6805



Address Chart

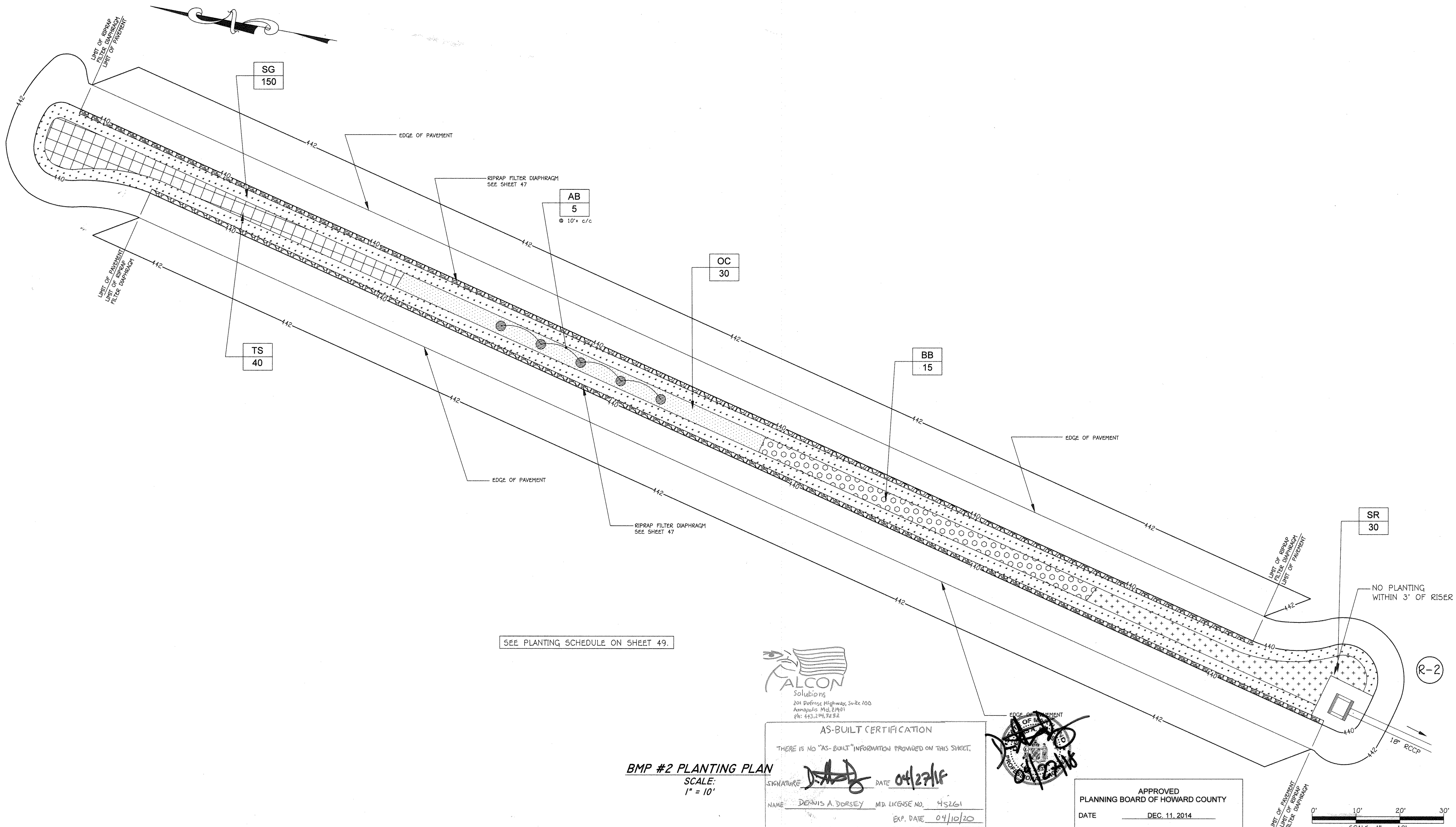
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90891	24.6	NT	29.35	FIFTH	6054

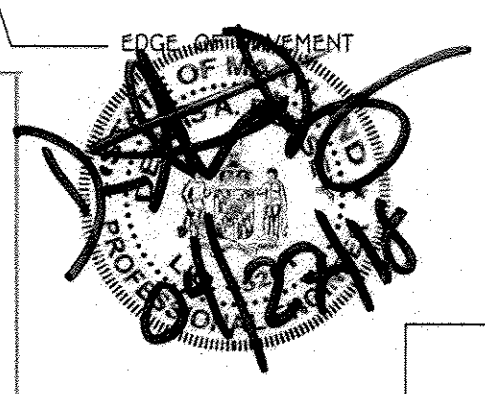
WATER CODE	SEWER CODE
E-30	5523900

STORMWATER MANAGEMENT BMP #1 PLANTING PLAN
 AS-BUILT VILLAGE OF WILDE LAKE
 SECTION 11 AREA 1
 LOT 1
WILDE LAKE MIDDLE SCHOOL
 ZONED: NT PARCEL No.: 280
 TAX MAP No.: 29 GRID No.: 24
 TAX MAP No.: 35 GRID No.: 6
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 20' DATE: JANUARY 30, 2015
 SHEET 47 OF 54



ALCON
Solutions
204 Duffridge Highway, Suite 200
Annapolis, Md. 21401
Ph: 443.279.7232

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *[Signature]* DATE: 04/27/16
NAME: DENNIS A. DORSEY MD LICENSE NO. 45261
EXP. DATE: 04/10/20



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

BMP #2 PLANTING PLAN
SCALE: 1" = 10'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELIJAH CITY, MARYLAND 21044
(410) 451-2000

"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. 13204, Expiration Date: November 3, 2016."
[Signature] 1/27/15
CHARLES J. GROVO, SR., P.E. DATE

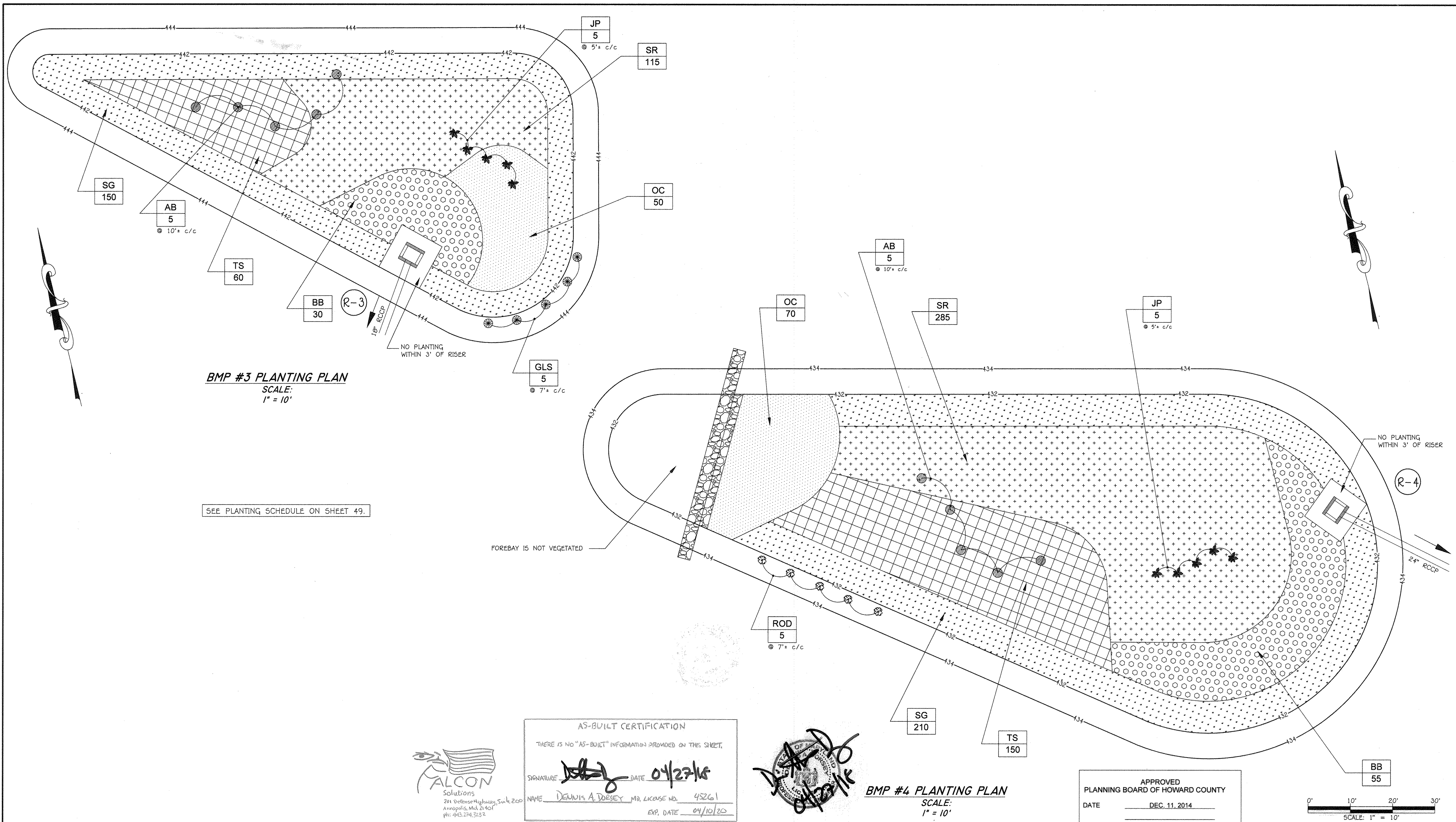
DATE	DESCRIPTION	REVISION BLOCK
11/21/10	REVISE SHEET NUMBER	
9/11/10	REVISE SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	2-11-15	Date
Director - Department of Planning and Zoning		
<i>[Signature]</i>	2-11-15	Date
Chief, Division of Land Development		
<i>[Signature]</i>	2-5-15	Date
Chief, Development Engineering Division		

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.908&91	24,6	NT	29,35	FIFTH	6054
WATER CODE	SEWER CODE				
E-30	5523900				

STORMWATER MANAGEMENT BMP #2
PLANTING PLAN
As-Built VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 10' DATE: JANUARY 30, 2015
SHEET 48 OF 54



BMP #3 PLANTING PLAN
SCALE:
1" = 10'

SEE PLANTING SCHEDULE ON SHEET 49.

AS-BUILT CERTIFICATION

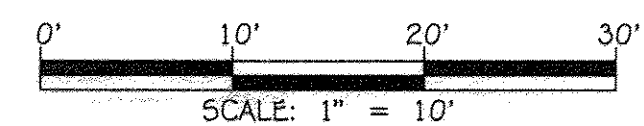
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

SIGNATURE: *[Signature]* DATE: 04/27/15
 NAME: DENNIS A. DOBNEY, MR. LICENSE NO. 45261
 EXP. DATE: 04/10/20



BMP #4 PLANTING PLAN
SCALE:
1" = 10'

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014



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

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2016."

[Signature] 1/27/15
CHARLES J. GROVO, SR., P.E. DATE

DATE	DESCRIPTION	REVISION BLOCK
11/24/10	REVISE SHEET NUMBER	
9/11/15	REVISE SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	2-11-15	Date
Director - Department of Planning and Zoning		
<i>[Signature]</i>	2-11-15	Date
Chief, Division of Land Development		
<i>[Signature]</i>	2-5-15	Date
Chief, Development Engineering Division		

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT					
WILDE LAKE MIDDLE SCHOOL	SECTION/AREA 11/1 PARCEL 280				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24.6	NT	29.35	FIFTH	6054
WATER CODE		SEWER CODE			
E-30		5523900			

STORMWATER MANAGEMENT BMP'S #3 & #4 PLANTING PLANS

As-Built VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 10' DATE: JANUARY 30, 2015

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BMP BIORETENTION FACILITY NOTES AND SPECIFICATIONS

- REFER TO THE LATEST MARYLAND SWM DESIGN MANUAL FOR BIORETENTION SPECIFICATIONS FOR INFORMATION NOT LISTED HEREIN AND FOR ADDITIONAL INFORMATION.
- THE BIORETENTION BMP MATERIALS ARE AS FOLLOWS:
 - PLANTING SOIL: PER PLANTING SOIL SPECIFICATIONS OUTLINED IN MDE'S 2000 SWM MANUAL, APPENDIX B.4. DO NOT MECHANICALLY COMPACT PLANTING SOIL, BUT CAN BE "WATERED" TO FACILITATE SETTLING.
 - PVC UNDERDRAIN PIPE OUTSIDE BMP: SCHEDULE 40, SOLID PIPE WITH MINIMUM SLOPE OF 0.5% OR AS PER PLAN.
 - PVC UNDERDRAIN IN BMP: SCHEDULE 40 AND PERFORATED WITH 3/8" HOLES. WRAP UNDERDRAIN WITH GALVANIZED 1/4" HARDWARE CLOTH (WELDED WIRE MESH). PROVIDE 4 - 3/4" HOLES EVENLY SPACED AROUND THE 6" UNDERDRAIN PIPE CIRCUMFERENCE. SPACE PERFORATIONS ALONG PIPE AT 4" ON CENTER. ADJACENT SETS OF PERFORATIONS SHALL BE STAGGERED AT 45'. PERFORATIONS MUST TOTAL 1.30 sq. inch MIN. PER LF OF 6" PIPE.
 - STONE AGGREGATE: MSHA SPECIFICATIONS AS SHOWN ON TYPICAL SECTION; AGGREGATE MUST WASHED, AND BE FREE OF FINES, SAND, DIRT & DEBRIS.
 - GEOTEXTILE: PER MDE SWM MANUAL, OR MIRAFI 140N.
 - MULCH: SHREDDED, WELL-AGED (6-12 MONTHS) HARDWOOD MULCH; NO WOOD CHIPS OR PINE MULCH.
- THE CONTRACTOR SHALL UNDER NO CIRCUMSTANCES ALLOW SURFACE DRAINAGE INTO THE MICRO-BIORETENTION BMPs UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED (i.e., PAVED, OR HAVE WELL-ESTABLISHED VEGETATION).
- BOARDS SHALL NOT BE LEFT IN PLACE DURING THE CONSTRUCTION OF THE BIORETENTION BMP.
- GEOTEXTILE (FILTER FABRIC) SHALL BE PLACED AGAINST EXCAVATED VERTICAL SURFACES. SCARIFY EARTH PRIOR TO GEOTEXTILE PLACEMENT. INSTALL GEOTEXTILE PER MANUFACTURER'S SPECIFICATIONS/RECOMMENDATIONS AND USE A 2 FT MINIMUM OVERLAP AND NOTCH ENDS WITH A 6" MINIMUM BURY OR EQUIVALENT ANCHORING METHOD.
- THE CONTRACTOR SHALL PROVIDE TO THE OWNER INDEPENDENT CERTIFICATION THAT THE PLANTING SOILS AND OTHER BIORETENTION MATERIALS MEET THE SPECIFICATIONS.
- THE BIORETENTION FACILITIES SHALL BE VEGETATED (TOP LEVEL SURFACE ONLY) IN ACCORDANCE WITH THE PLANTING PLAN AND THE BMP M-6 SPECIFICATIONS IN MDE'S CURRENT STORMWATER MANAGEMENT DESIGN MANUAL.
- FOR UNDERDRAINS, USE PERFORATED PVC PIPE INSIDE THE BIORETENTION FACILITIES AND WRAP PERFORATED PIPE WITH 1/4" x 1/4" HARDWARE CLOTH TO PREVENT AGGREGATE FROM ENTERING THE PERFORATIONS.
- INSTALL CLEANOUTS (SOLID PVC PIPE) AS SHOWN. THE CLEANOUT TOP SHALL EXTEND 3" ABOVE TOP OF MULCH.
- THE LIMIT OF THE TYPICAL SECTION (i.e., PLANTING SOIL, AGGREGATE, ETC.) IS THE ENTIRE LEVEL SURFACE OF THE BIORETENTION FACILITY EXCLUDING FOREBAY AREA AND GABION WEIR, IF PROPOSED.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORMWATER MANAGEMENT PONDS

ROUTINE MAINTENANCE

- Facility shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the pond is functioning properly.
- Top and side slopes of the embankment shall be mowed a minimum of two (2) times a year, once in June and once in September. Other side slopes and maintenance access should be mowed as needed.
- Debris and litter shall be removed during regular mowing operations and as needed.
- Visible signs of erosion in the pond embankment as well as the rip-rap or gabion outlet area shall be repaired as soon as it is noticed.

NON-ROUTINE MAINTENANCE

- Structural components of the pond such as the dam, the riser, and the pipes shall be repaired immediately upon the detection of any damage. The components shall be inspected during routine maintenance operations.
- Sediment shall be removed from the micro-pool and forebay when either one is half full of sediment, or when deemed necessary for aesthetic reasons, upon approval from the Department of Public Works.

Pond MD-378: N.R.C.S. - JANUARY 2000 CONSTRUCTION SPECIFICATIONS FOR SMALL EARTHEN DAMS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1. All trees shall be cleared and grubbed within 15 feet of the toe of the embankment. Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush, and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 25-foot radius around the inlet structure shall be cleared. All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Earth Fill

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment, and cut off trench shall conform to Unified Soil Classification CC, SC, CH, or CL and must have at least 30% passing the #200 sieve. Consideration may be given to the use of other materials in the embankment if designed by a geotechnical engineer. Such special designs must have construction supervised by a geotechnical engineer. Materials used in the outer shell of the embankment must have the capability to support vegetation of the quality required to prevent erosion of the embankment. Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into the embankment. Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of heavy equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble, yet not be so wet that water can be squeezed out. The minimum required density shall not be less than 95% of maximum dry density with a moisture content within ±2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99 (Standard Proctor). Cut Off Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability. Embankment Core - The core shall be parallel to the centerline of the embankment as shown on the plans. The top width of the core shall be a minimum of four feet. The height shall extend up to at least the 10 year water elevation or as shown on the plans. The side slopes shall be 1 to 1 or flatter. The core shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability. In addition, the core shall be placed concurrently with the outer shell of the embankment.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe. Structure backfill may be flowable fill meeting the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 313 as modified. The mixture shall have a 100-200 psi, 28 day unconfined compressive strength. The flowable fill shall have a minimum pH of 4.0 and a minimum resistivity of 2,000 ohm-cm. Material shall be placed such that a minimum of 6" (measured perpendicular to the outside of the pipe) of flowable fill shall be under (bedding), over and, on the sides of the pipe. It only needs to extend up to the spring line for rigid conduits. Average slump of the fill shall be 7" to assure flowability of the material. Adequate measures shall be taken (sand bags, etc.) to prevent floating the pipe. When using flowable fill, all metal pipe shall be bituminous coated. Any adjoining soil fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material shall completely fill all voids adjacent to the flowable fill zone. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a structure or pipe unless there is a compacted fill of 24" or greater over the structure or pipe. Backfill material outside the structural backfill (flowable fill) zone shall be of the type and quality conforming to that specified for the core of the embankment or other embankment materials.

Pipe Conduits

- All pipes shall be circular in cross section.
- Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:
- Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM C-361.
 - Bedding - Reinforced concrete pipe conduits shall be laid in a concrete bedding / cradle for their entire length. This bedding / cradle shall consist of high slump concrete not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material shall completely fill all voids adjacent to the pipe and the pipe at least 30% of its outside diameter with a minimum thickness of 6 inches. Where a concrete cradle is not needed for structural reasons, flowable fill may be used as described in the "Structure Backfill" section of this standard. Gravel bedding is not permitted.
 - Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 4 feet from the riser.
 - Backfilling shall conform to "Structure Backfill".
 - Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.
- Plastic Pipe - The following criteria shall apply for plastic pipe:
- Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241. Corrugated High Density Polyethylene (HDPE) pipe, couplings and fittings shall conform to the following: 4" - 10" inch pipe shall meet the requirements of AASHTO M252 Type S, and 12" through 24" inch shall meet the requirements of AASHTO M294 Type S.
 - Joints and connections to anti-seep collars shall be completely watertight.
 - Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
 - Backfilling shall conform to "Structure Backfill".
 - Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.
- Drainage Diaphragms - When a drainage diaphragm is used, a registered professional engineer will supervise the design and construction inspection.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 414, Mix No. 3.

Rock Riprap

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 311.

Care of Water During Construction

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from various parts of the work and for maintaining the excavations, foundations, and other parts of the work free of water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water pumps from which the water shall be pumped.

Stabilization

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Natural Resources Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the ac-companing drawings.

Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures.

OPERATION AND MAINTENANCE SCHEDULE FOR BIORETENTION BMPs #1 - #4

THE BIORETENTION FACILITIES SHALL BE INSPECTED AT LEAST TWICE PER YEAR (ONCE EACH IN THE SPRING AND FALL) AND AFTER HEAVY STORMS. THE OWNER IS RESPONSIBLE FOR MAINTAINING A DETAILED LOG OF THE MAINTENANCE INSPECTION FINDINGS AND A HISTORY OF THE COMPLETED WORK. THE LOG SHALL BE MADE AVAILABLE TO HOWARD COUNTY DPZ AND/OR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UPON REQUEST.

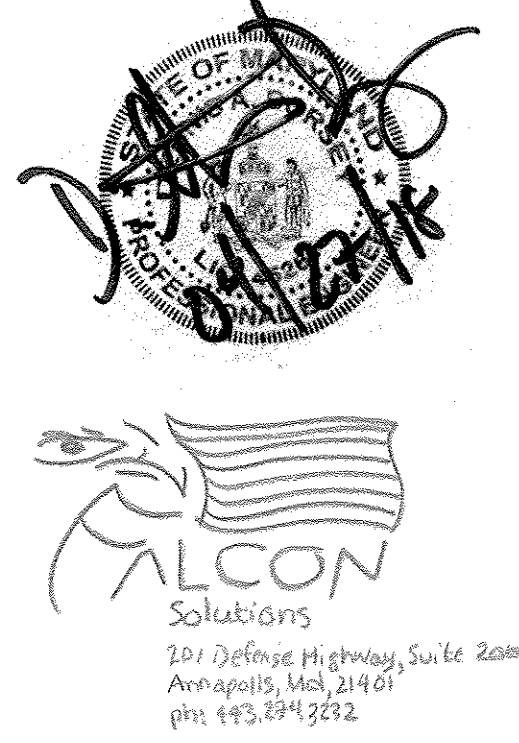
MICRO-BIORETENTION FACILITY COMPONENTS TO BE INSPECTED AND MAINTAINED INCLUDE THE ITEMS AS FOLLOWS:

- PLANT MATERIAL: PLANTS SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION. REMOVE AND REPLACE DEAD OR DYING VEGETATION CONSIDERED BEYOND TREATMENT (SEE NOTE BELOW). MAINTENANCE ALSO INCLUDES PRUNING, AND REPLACEMENT OF DEFICIENT STAKES AND WIRE.
- MULCH LAYER: SHALL BE REPLACED ONCE EVERY SPRING DUE TO THE HEAVY METALS GENERATED FROM THE PARKING LOT. THE OWNER SHALL PROPERLY DISPOSE OF THE OLD MULCH SO AS NOT TO CAUSE STORMWATER CONTAMINATION ELSEWHERE. WASHED OUT AREAS SHALL BE REPAIRED AS NECESSARY.
- SOIL LAYER: SHOULD STORMWATER POND FOR MORE THE 48 HOURS, THE TOP 6 INCHES (MINIMUM) OF THE SOIL LAYER SHALL BE REPLACED. THE OLD SOILS SHALL BE PROPERLY DISPOSED.
- SPILLWAY OUTFALL, INTERIOR SLOPES: ERODED AREAS SHALL BE REPAIRED (FILLED IN AND SEEDED) AS NEEDED. BARE AREAS SHALL BE TREATED AND RE-SEED.
- INLET: REPAIR CRACKS, DAMAGED CONCRETE, ETC. AS NECESSARY.
- REMOVE AND PROPERLY DISPOSE ACCUMULATED SEDIMENT GREATER THAN ONE (1) INCH.

- NOTES:
- IF SPECIFIC PLANTS ARE NOT SURVIVING; THE PLANT TYPE SHOULD CHANGED TO BETTER SUITED SPECIES.
 - PLANT WATERING MAY BE NEEDED DURING PROLONGED DRY PERIODS.

GENERAL STORMWATER MANAGEMENT NOTES

- STORMWATER MANAGEMENT HAS BEEN PROVIDED WITH FOUR (4) BIORETENTION FACILITIES. PLEASE REFER TO THE SWM REPORT PREPARED BY FISHER, COLLINS, & CARTER, INC. DATED AUGUST 15, 2014.
- ALL CONSTRUCTION SHALL MEET THE LATEST EDITION OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS, SMALL EARTHEN DAM SPECIFICATION MD-378, AND THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S CURRENT STORMWATER DESIGN MANUAL, OR AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONSULT THE ENGINEER SHOULD THERE BE ANY DISCREPANCIES. SEE MICRO-BIORETENTION FACILITY SPECIFICATIONS ON THIS SHEET.
- THE UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL TEST PIT ALL KNOWN EXISTING UTILITIES TO VERIFY, SIZE, SHAPE, LOCATION, AND TYPE PRIOR TO PERFORMING CONSTRUCTION. ANY UTILITY DAMAGED DUE TO CONSTRUCTION MUST BE REPAIRED IMMEDIATELY.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. IF THE CONTRACTOR MAKES FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- CONTRACTOR SHALL NOTIFY MISS UTILITY 1-800-257-7777 AND THE HOWARD COUNTY DEPARTMENT OF INSPECTION LICENSES & PERMITS THREE (3) WORKING DAYS BEFORE BEGINNING CONSTRUCTION.
- FISHER, COLLINS & CARTER, INC. IS NOT RESPONSIBLE FOR THE CONTRACTOR'S UTILIZATION OF MEN, MATERIALS, EQUIPMENT, OR SAFETY MEASURES IN THE PERFORMANCE OF ANY WORK FOR THIS PROJECT. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PERFORMING THE WORK CORRECTLY AND IN CONFORMANCE WITH CODE/SPECIFICATION REQUIREMENTS.
- THE BMPs MAY BE GRADED, HOWEVER, THE PLANTING SOIL IN THE BMPs SHALL NOT BE INSTALLED UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED (i.e., THICK GRASS COVER, OR PAVED).
- THE STORMWATER MANAGEMENT BIORETENTION BMPs FOR THIS PROJECT WILL BE PRIVATELY OWNED AND MAINTAINED.
- THE BMPs SHALL BE AT LEAST 10 FT FROM THE SCHOOL BUILDING (TEMPORARY BUILDINGS EXCLUDED) AS MEASURED FROM THE 1 FT DEPTH WATER SURFACE ELEVATION TO THE BUILDING.

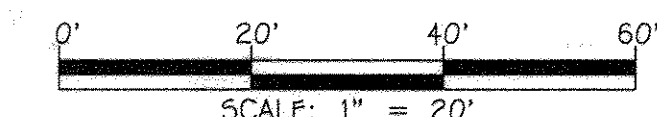


AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

SIGNATURE: *[Signature]* DATE: 04/27/16

NAME: DENNIS A. DORSEY MD. LICENSE NO. 45261 EXP. DATE: 01/10/20



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014



ENGINEER'S CERTIFICATE

"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer: *[Signature]* DATE: 1/27/15

DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *[Signature]* DATE: 1/27/15

"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. 13204, Expiration Date: November 3, 2016."

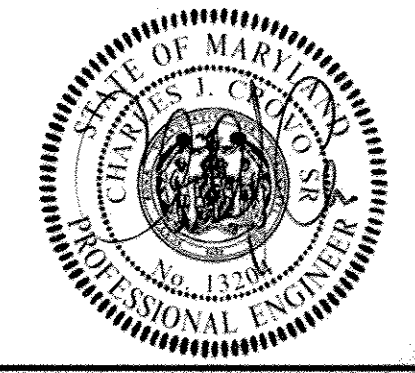
Signature: *[Signature]* DATE: 1/27/15
CHARLES J. ORSIVO, SR., P.E.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* DATE: 1/27/15
Howard SCD

DATE	REVISION	DESCRIPTION
11/21/16	REVISION SHEET NUMBER	
9/11/15	REVISION SHEET NUMBER	
REVISION BLOCK		
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i> 2-11-15 Date		
Director - Department of Planning and Zoning		
<i>[Signature]</i> 2-11-15 Date		
Chief, Division of Land Development		
<i>[Signature]</i> 2-5-15 Date		
Chief, Development Engineering Division		

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805



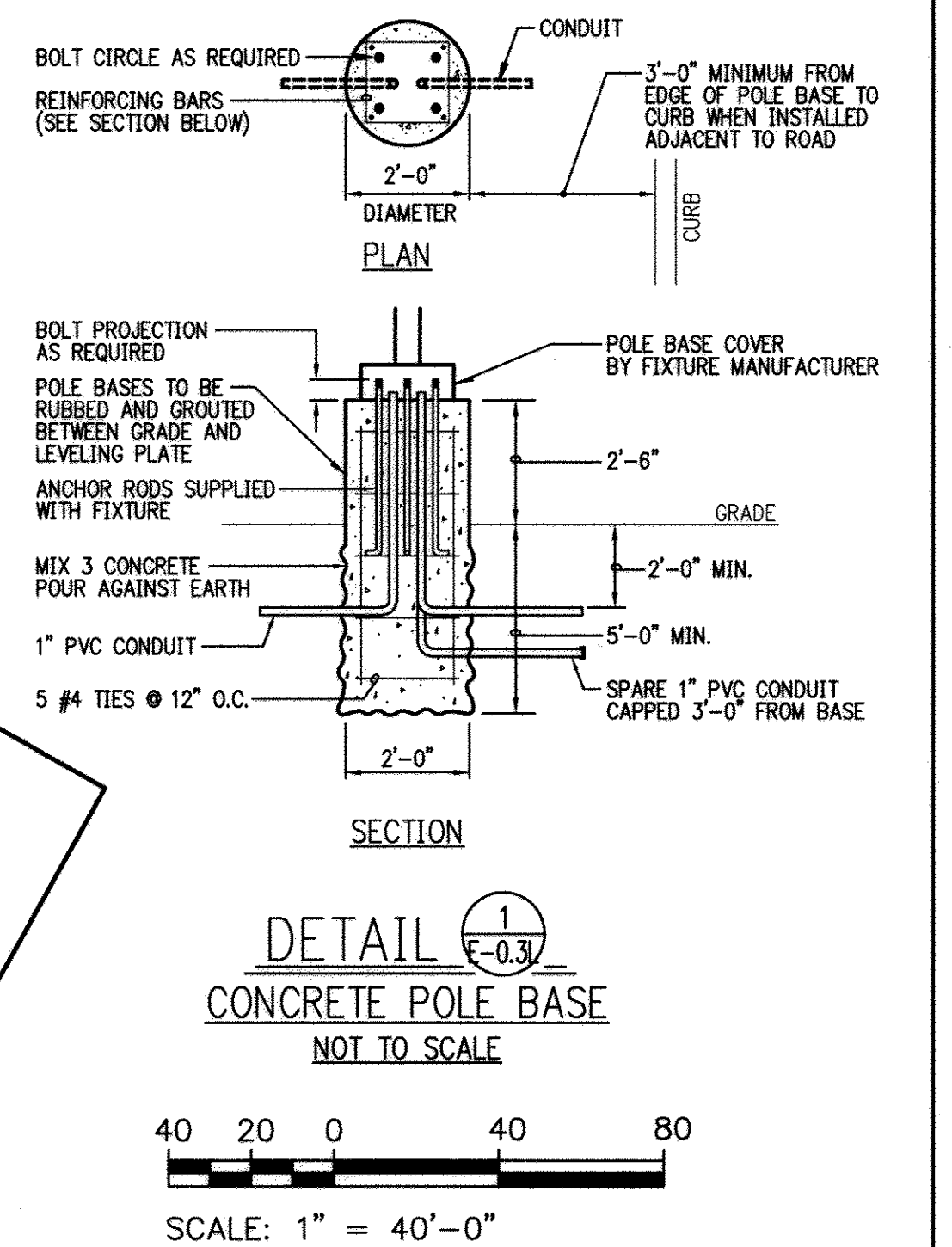
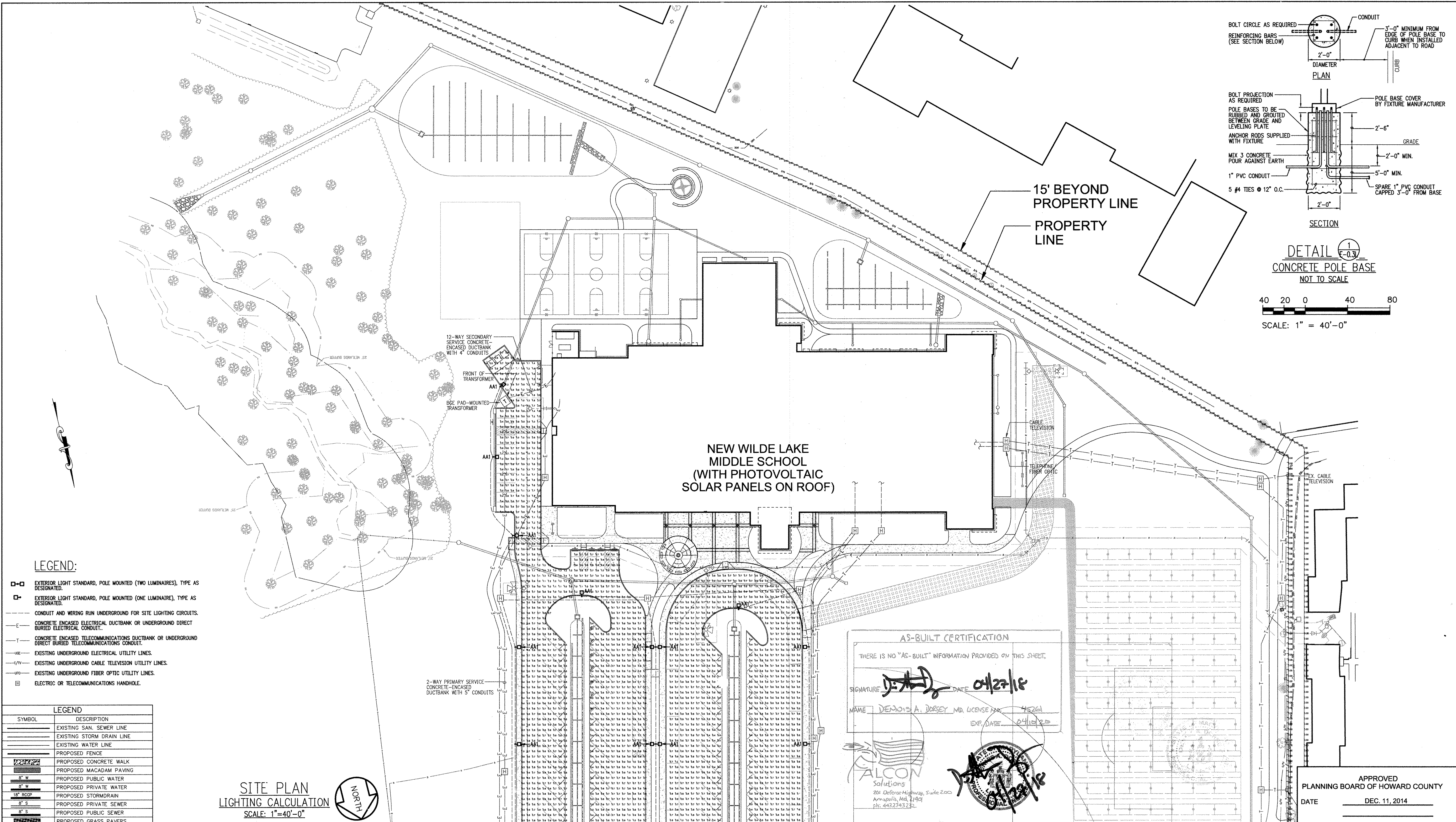
Address Chart					
Parcel Number	Street Address				
280	10481 CROSS FOX LANE COLUMBIA, MD 21044				
PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F/90891	24.6	NT	29,35	FIFTH	6054
WATER CODE	SEWER CODE				
E-30	523900				

STORMWATER MANAGEMENT SPECIFICATIONS & NOTES

VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY 30, 2015

SHEET 50 OF 54



- LEGEND:**
- EXTERIOR LIGHT STANDARD, POLE MOUNTED (TWO LUMINAIRES), TYPE AS DESIGNATED.
 - EXTERIOR LIGHT STANDARD, POLE MOUNTED (ONE LUMINAIRE), TYPE AS DESIGNATED.
 - CONDUIT AND WIRING RUN UNDERGROUND FOR SITE LIGHTING CIRCUITS.
 - CONCRETE ENCASED ELECTRICAL DUCTBANK OR UNDERGROUND DIRECT BURIED ELECTRICAL CONDUIT.
 - CONCRETE ENCASED TELECOMMUNICATIONS DUCTBANK OR UNDERGROUND DIRECT BURIED TELECOMMUNICATIONS CONDUIT.
 - EXISTING UNDERGROUND ELECTRICAL UTILITY LINES.
 - EXISTING UNDERGROUND CABLE TELEVISION UTILITY LINES.
 - EXISTING UNDERGROUND FIBER OPTIC UTILITY LINES.
 - ELECTRIC OR TELECOMMUNICATIONS HANDHOLE.

SYMBOL	DESCRIPTION
	EXISTING SANITARY SEWER LINE
	EXISTING STORM DRAIN LINE
	EXISTING WATER LINE
	PROPOSED FENCE
	PROPOSED CONCRETE WALK
	PROPOSED MACADAM PAVING
	PROPOSED PRIVATE WATER
	PROPOSED STORM DRAIN
	PROPOSED PRIVATE SEWER
	PROPOSED PUBLIC SEWER
	PROPOSED GRASS PAVERS

SITE PLAN LIGHTING CALCULATION
SCALE: 1" = 40'-0"

AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *[Signature]* DATE: 01/27/15
NAME: DEBORAH A. DORSEY MD LICENSE NO: 45261 EXP. DATE: 04/15/20
ALCON Solutions
201 Defense Highway, Suite 200
Annapolis, MD, 21401
ph: 443.274.3232

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
BLADYVILLE CITY, MARYLAND 21044
(410) 481-3300

James Posey Associates
Engineering Your Vision
Mechanical & Electrical Consulting Engineers
3112 Lord Baltimore Drive
Baltimore, MD 21244
tel: 410-265-6100 fax: 410-268-9820 jamesposey.com

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805

DATE	DESCRIPTION	DATE
11/20/14	ISSUE SHEET NUMBER	
2/11/15	REVISION SHEET NUMBER	

DATE	DESCRIPTION	DATE
2-11-15		
2-11-15		
2-5-15		

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director: *[Signature]* 2-11-15
Chief, Division of Land Development: *[Signature]* 2-11-15
Chief, Development Engineering Division: *[Signature]* 2-5-15

Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
216A, 216C & 216D	24, 6	NT	29.35	FIFTH	6054

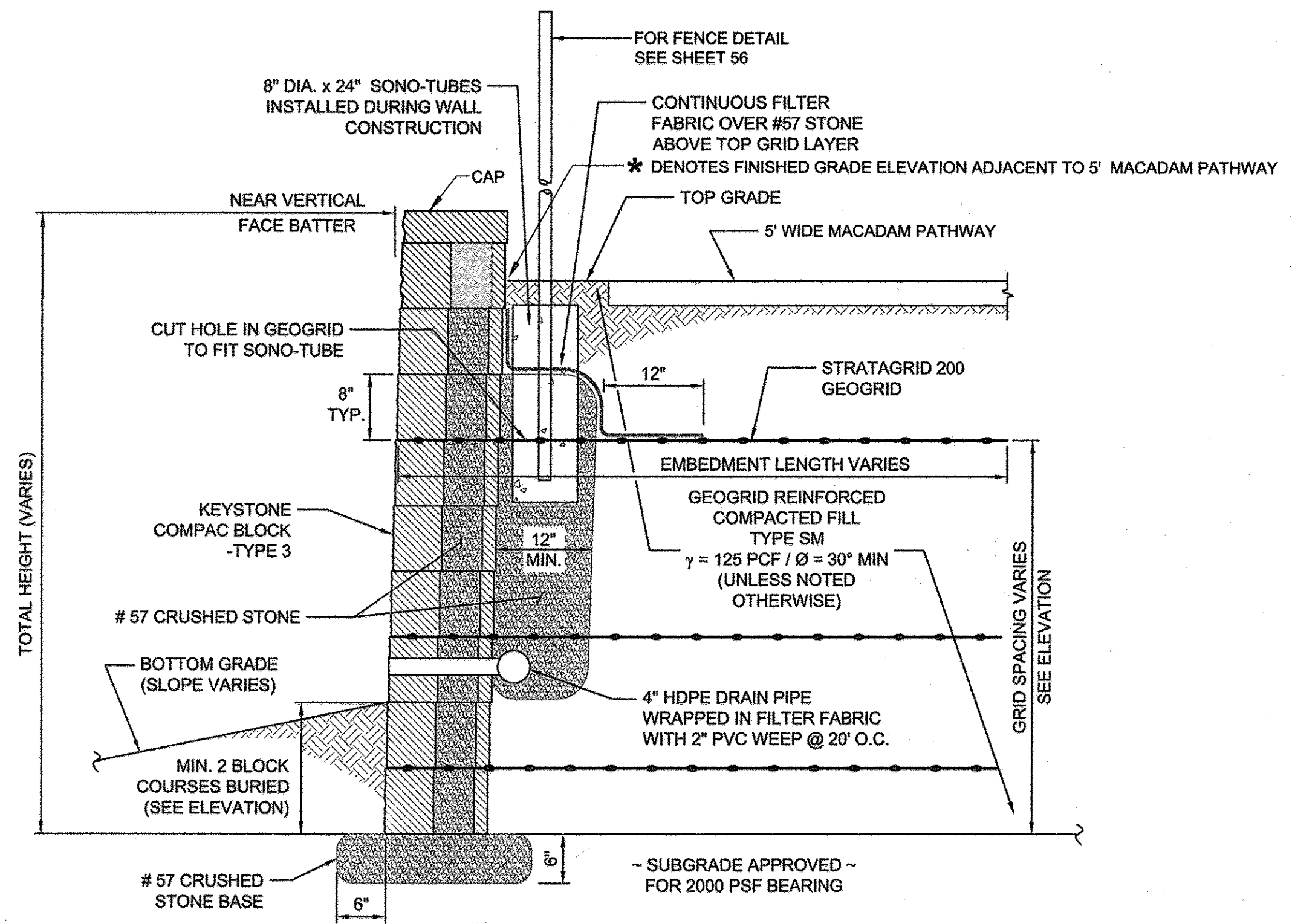
WATER CODE	SEWER CODE
E-30	S523900

AS-BUILT PHOTOMETRICS PLAN
VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: DECEMBER 11, 2014

SHEET 52 OF 54

December 09, 2014 3:28 p.m.
Drawing: 1. VCD00-14-CE-DRAWINGS\CD00-14-CE-DRAWING



TYPICAL WALL SECTION
N.T.S.

- GENERAL NOTES:**
- No trees shall be planted within 10 feet of the top of the retaining wall.
 - Retaining walls shall only be constructed under the observation of a registered professional engineer and a (NICET, WACEL, or equiv.) certified soils technician.
 - The required bearing pressure beneath the wall system shall be verified in the field by a certified soils technician. Testing documentation must be provided to the Howard County Inspector prior to start of construction. The required bearing test shall be the Dynamic Cone Penetrometer test ASTM STP-399.
 - The suitability of fill material shall be confirmed by the on-site soils technician. Each 8" lift must be compacted to a minimum 95% standard proctor density and the testing report shall be made available to the Howard County Inspector upon completion of construction.
 - Walls shall not be constructed on uncertified fill materials.
 - Walls shall not be constructed within a Howard Co. right-of-way or easement.

SPECIFICATIONS
MODULAR CONCRETE BLOCK RETAINING WALL

- PART 1: GENERAL**
- 1.01 DESCRIPTION**
- WORK SHALL CONSIST OF FURNISHING AND CONSTRUCTION OF A MODULAR RETAINING WALL SYSTEM IN ACCORDANCE WITH THESE SPECIFICATIONS AND IN REASONABLY CLOSE CONFORMITY WITH THE LINES, GRADES, DESIGN, AND DIMENSIONS SHOWN ON THE PLANS.
 - WORK INCLUDES PREPARING FOUNDATION SOIL, FURNISHING AND INSTALLING LEVELING PAD, UNIT DRAINAGE FILL AND BACKFILL TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS.
 - WORK INCLUDES FURNISHING AND INSTALLING GEOGRID SOIL REINFORCEMENT OF THE TYPE, SIZE, LOCATION, AND LENGTHS DESIGNATED ON THE CONSTRUCTION DRAWINGS.
- 1.02 DELIVERY, STORAGE AND HANDLING**
- CONTRACTOR SHALL CHECK ALL MATERIALS UPON DELIVERY TO ASSURE THAT THE PROPER TYPE, GRADE, COLOR, AND CERTIFICATION HAS BEEN RECEIVED.
 - CONTRACTOR SHALL PROTECT ALL MATERIALS FROM DAMAGE DUE TO JOB SITE CONDITIONS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DAMAGED MATERIALS SHALL NOT BE INCORPORATED INTO THE WORK.
- PART 2: PRODUCTS**
- 2.01 MODULAR CONCRETE RETAINING WALL UNITS**
- MODULAR CONCRETE UNITS SHALL CONFORM TO THE FOLLOWING ARCHITECTURAL REQUIREMENTS:
FACE COLOR - COLOR SHALL BE SELECTED BY ARCHITECT.
FACE FINISH - SCULPTURED ROCK FACE IN ANGULAR TRI-PLANE OR FLAT CONFIGURATION. OTHER FACE FINISHES WILL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL OF OWNER.
BOND CONFIGURATION - RUNNING WITH BONDS NOMINALLY LOCATED AT MIDPOINT VERTICALLY ADJACENT UNITS, IN BOTH STRAIGHT AND CURVED ALIGNMENTS.
EXPOSED SURFACES OF UNITS SHALL BE FREE OF CHIPS, CRACKS OR OTHER IMPERFECTIONS WHEN VIEWED FROM A DISTANCE OF 10 FEET UNDER DIFFUSED LIGHTING.
 - MODULAR CONCRETE MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C1372 - STANDARD SPECIFICATIONS FOR SEGMENTAL RETAINING WALL UNITS.
 - MODULAR CONCRETE UNITS SHALL CONFORM TO THE FOLLOWING STRUCTURAL AND GEOMETRIC REQUIREMENTS MEASURED IN ACCORDANCE WITH APPROPRIATE REFERENCES:
COMPRESSIVE STRENGTH = 3000 PSI MINIMUM; ABSORPTION = 8% MAXIMUM (6% IN NORTHERN STATES) FOR STANDARD WEIGHT AGGREGATES;
DIMENSIONAL TOLERANCES = ±1/8" FROM NOMINAL UNIT DIMENSIONS NOT INCLUDING ROUGH SPLIT FACE, ±1/16"
UNIT HEIGHT - TOP AND BOTTOM PLANES; UNIT SIZE - 8" (H) X 18" (W) X 12" (D) MINIMUM;
UNIT WEIGHT - 75 LBS/UNIT MINIMUM FOR STANDARD WEIGHT AGGREGATES;
INTER-UNIT SHEAR STRENGTH - 1000 PLF MINIMUM AT 2 PSI NORMAL PRESSURE; AT 2 PSI NORMAL FORCE.
GEOGRID/UNIT PEAK CONNECTION STRENGTH - 1000 PLF MINIMUM
 - MODULAR CONCRETE UNITS SHALL CONFORM TO THE FOLLOWING CONSTRUCTION REQUIREMENTS:
VERTICAL SETBACK = 1/8" PER COURSE (NEAR VERTICAL) OR 1" PER COURSE PER THE DESIGN; ALIGNMENT AND GRID POSITIONING MECHANISM - FIBERGLASS PINS, TWO PER UNIT MINIMUM;
MAXIMUM HORIZONTAL GAP BETWEEN ERECTED UNITS SHALL BE - 1/2 INCH.
- 2.02 SHEAR CONNECTORS**
- SHEAR CONNECTORS SHALL BE 1/2 INCH DIAMETER THERMOSET ISOPHTHALIC POLYESTER REINFORCED FIBERGLASS REINFORCEMENT RODS OR EQUIVALENT TO PROVIDE CONNECTION BETWEEN VERTICALLY AND
- 2.03 BASE LEVELING PAD MATERIAL**
- MATERIAL SHALL CONSIST OF A COMPACTED #57 CRUSHED STONE BASE AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- 2.04 UNIT DRAINAGE FILL**
- UNIT DRAINAGE FILL SHALL CONSIST OF #57 CRUSHED STONE
- 2.05 REINFORCED BACKFILL**
- REINFORCED BACKFILL SHALL TYPE SM, BE FREE OF DEBRIS AND MEET THE FOLLOWING GRADATION TESTED IN ACCORDANCE WITH ASTM D-422 AND MEET OTHER PROPERTIES SHOWN ON THE PLAN.
- | SIEVE SIZE | PERCENT PASSING |
|------------|-----------------|
| 2 INCH | 100-75 |
| 3/4 INCH | 100-75 |
| NO. 40 | 0-60 |
| NO. 200 | 0-35 |
- PLASTICITY INDEX (PI) <10 AND LIQUID LIMIT <35 PER ASTM D-4318.
 - MATERIAL CAN BE SITE EXCAVATED SOILS WHERE THE ABOVE REQUIREMENTS CAN BE MET. UNSUITABLE SOILS FOR BACKFILL (HIGH PLASTIC CLAYS OR ORGANIC SOILS) SHALL NOT BE USED IN THE REINFORCED SOIL MASS.

2.06 GEOGRID SOIL REINFORCEMENT

 - GEOSYNTHETIC REINFORCEMENT SHALL CONSIST OF GEOGRIDS MANUFACTURED SPECIFICALLY FOR SOIL REINFORCEMENT APPLICATIONS AND SHALL BE MANUFACTURED FROM HIGH TENACITY POLYESTER YARN.

2.07 DRAINAGE PIPE

 - THE DRAINAGE PIPE SHALL BE PERFORATED CORRUGATED HDPE PIPE MANUFACTURED IN ACCORDANCE WITH ASTM D-1248.

PART 3 EXECUTION

3.01 EXCAVATION

 - CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS. OWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSPECTING AND APPROVING THE EXCAVATION PRIOR TO PLACEMENT OF LEVELING MATERIAL OR FILL SOILS.

3.02 BASE LEVELING PAD

 - LEVELING PAD MATERIAL SHALL BE PLACED TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS, TO A MINIMUM THICKNESS OF 6 INCHES AND EXTEND LATERALLY A MINIMUM OF 6" IN FRONT AND BEHIND THE MODULAR WALL UNIT.
 - LEVELING PAD SHALL BE PREPARED TO INSURE FULL CONTACT TO THE BASE SURFACE OF THE CONCRETE UNITS.

3.03 MODULAR UNIT INSTALLATION

 - FIRST COURSE OF UNITS SHALL BE PLACED ON THE LEVELING PAD AT THE APPROPRIATE LINE AND GRADE. ALIGNMENT AND LEVEL SHALL BE CHECKED IN ALL DIRECTIONS AND INSURE THAT ALL UNITS ARE IN FULL CONTACT WITH THE BASE AND PROPERLY SEATED.
 - PLACE THE FRONT OF UNITS SIDE-BY-SIDE. DO NOT LEAVE GAPS BETWEEN ADJACENT UNITS. LAYOUT OF CORNERS AND CURVES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - INSTALL SHEAR/CONNECTING DEVICES PER MANUFACTURER'S RECOMMENDATIONS.
 - PLACE AND COMPACT DRAINAGE FILL WITHIN AND BEHIND WALL UNITS. PLACE AND COMPACT BACKFILL SOIL BEHIND DRAINAGE FILL. FOLLOW WALL ERECTION AND DRAINAGE FILL CLOSELY WITH STRUCTURE BACKFILL.

3.04 STRUCTURAL GEOGRID INSTALLATION

 - GEOGRID SHALL BE ORIENTED WITH THE HIGHEST STRENGTH AXIS PERPENDICULAR TO THE WALL ALIGNMENT.
 - GEOGRID REINFORCEMENT SHALL BE PLACED AT THE STRENGTHS, LENGTHS, AND ELEVATIONS SHOWN ON THE CONSTRUCTION DESIGN DRAWINGS OR AS DIRECTED BY THE ENGINEER.
 - THE GEOGRID SHALL BE LAID HORIZONTALLY ON COMPACTED BACKFILL AND ATTACHED TO THE MODULAR WALL UNITS. PLACE THE NEXT COURSE OF MODULAR CONCRETE UNITS OVER THE GEOGRID. THE GEOGRID SHALL BE PULLED TAUT, AND ANCHORED PRIOR TO BACKFILL PLACEMENT ON THE GEOGRID.
 - GEOGRID REINFORCEMENTS SHALL BE CONTINUOUS THROUGHOUT THEIR EMBEDMENT LENGTHS AND PLACED SIDE-BY-SIDE TO PROVIDE 100% COVERAGE AT EACH LEVEL. SPLICED CONNECTIONS BETWEEN SHORTER PIECES OF GEOGRID OR GAPS BETWEEN ADJACENT PIECES OF GEOGRID ARE NOT PERMITTED.

3.05 REINFORCED BACKFILL PLACEMENT

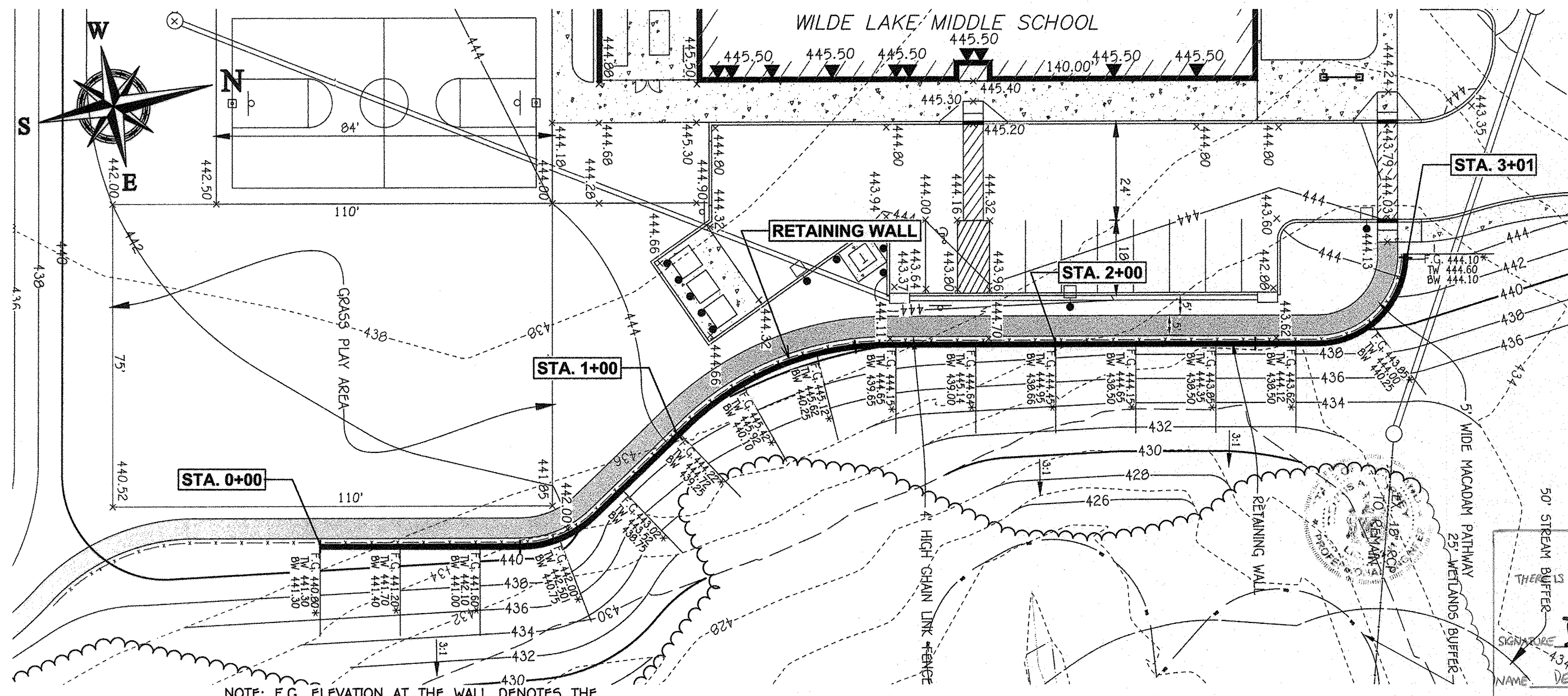
 - REINFORCED BACKFILL SHALL BE PLACED, SPREAD, AND COMPACTED IN SUCH A MANNER THAT MINIMIZES THE DEVELOPMENT OF SLACK IN THE GEOGRID AND INSTALLATION DAMAGE.
 - REINFORCED BACKFILL SHALL BE PLACED AND COMPACTED IN LIFTS NOT TO EXCEED 6 INCHES WHERE HAND COMPACTION IS USED, OR 8 - 10 INCHES WHERE HEAVY COMPACTION EQUIPMENT IS USED. LIFT THICKNESS SHALL BE DECREASED TO ACHIEVE THE REQUIRED DENSITY AS REQUIRED.
 - REINFORCED BACKFILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698. THE MOISTURE CONTENT OF THE BACKFILL MATERIAL PRIOR TO AND DURING COMPACTION SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT EACH LAYER AND SHALL BE 3% TO 3% OF OPTIMUM.
 - ONLY LIGHTWEIGHT HAND-OPERATED EQUIPMENT SHALL BE ALLOWED WITHIN 3 FEET FROM THE TAIL OF THE MODULAR CONCRETE UNIT.
 - TRACKED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY UPON THE GEOGRID REINFORCEMENT. A MINIMUM FILL THICKNESS OF 6 INCHES IS REQUIRED PRIOR TO OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. TRACKED VEHICLE TURNING SHOULD BE KEPT TO A MINIMUM TO PREVENT TRACKS FROM DISPLACING THE FILL AND DAMAGING THE GEOGRID.
 - RUBBER Tired EQUIPMENT MAY PASS OVER GEOGRID REINFORCEMENT AT SLOW SPEEDS, LESS THAN 10 MPH. SUDDEN BRAKING AND SHARP TURNING SHALL BE AVOIDED.
 - AT THE END OF EACH DAY'S OPERATION, THE CONTRACTOR SHALL SLOPE THE LAST LIFT OF REINFORCED BACKFILL AWAY FROM THE WALL UNITS TO DIRECT RUNOFF AWAY FROM WALL FACE. THE CONTRACTOR SHALL NOT ALLOW SURFACE RUNOFF FROM ADJACENT AREAS TO ENTER THE WALL CONSTRUCTION SITE.

3.06 CAP INSTALLATION

 - CAP UNITS SHALL BE GLUED TO UNDERLYING UNITS WITH AN ALL-WEATHER ADHESIVE RECOMMENDED BY THE MANUFACTURER.

3.07 FIELD QUALITY CONTROL

 - THE OWNER SHALL ENGAGE INSPECTION AND TESTING SERVICES, INCLUDING INDEPENDENT LABORATORIES, TO PROVIDE QUALITY ASSURANCE AND TESTING SERVICES DURING CONSTRUCTION.
 - AS A MINIMUM, QUALITY ASSURANCE TESTING SHOULD INCLUDE FOUNDATION SOIL, INSPECTION SOIL AND BACKFILL TESTING, VERIFICATION OF DESIGN PARAMETERS, AND OBSERVATION OF CONSTRUCTION FOR GENERAL COMPLIANCE WITH DESIGN DRAWINGS AND SPECIFICATIONS.



WALL LOCATION PLAN
1" = 20'

AS-BUILT CERTIFICATION

THIS IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

SIGNATURE: *D. J. Dorsey* DATE: 04/22/15

NAME: DENNIS A. DORSEY MD, LICENSE NO. 45261 EXP. DATE: 04/12/20

FALCON Solutions

201 Defense Highway, Suite 200
Annapolis, Md, 21401
ph: 410.279.3232

04/22/15

SCALE: 1" = 20'

NOTE: THE PURPOSE OF THIS PLAN IS TO ADD A 5 FOOT WIDE MACADAM PATHWAY, RETAINING WALL AND DETAILS.

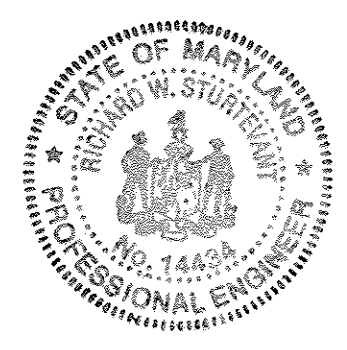
APPROVED
PLANNING BOARD OF HOWARD COUNTY

DATE: DEC. 11, 2014

HILLIS-CARNES
ENGINEERING ASSOCIATES

10975 Guilford Road, Suite A Annapolis Junction, Maryland
(410) 880-4788 WWW.HCEA.COM Fax: (410) 880-4088

HCEA PROJECT # 14311-A



"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. 14434, Expiration Date: May 13, 2015."

Richard W. Sturtevant, P.E. 3/11/15
DATE

DATE	REVISION SHEET NUMBER	DESCRIPTION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

James A. Lewis 2/3/15
Director - Department of Planning and Zoning Date

Keith Sheleff 3-17-15
Chief, Division of Land Development Date

John Sheleff 3-16-15
Chief, Development Engineering Division Date

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
Attention: SCOTT WASHINGTON
410-313-6805

Address Chart	
Parcel Number	Street Address
280	10481 CROSS FOX LANE COLUMBIA, MD 21044

PROJECT	SECTION/AREA	PARCEL
WILDE LAKE MIDDLE SCHOOL	11/1	280

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F-908/91	24.6	NT	29.35	FIFTH	6054

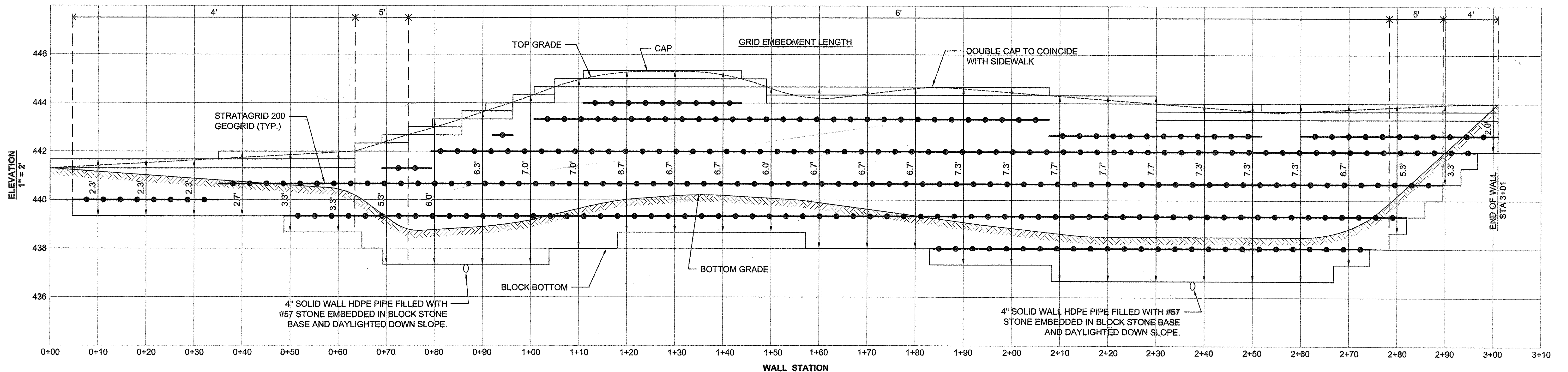
WATER CODE	SEWER CODE
E-30	5523900

RETAINING WALL PLAN AND DETAILS

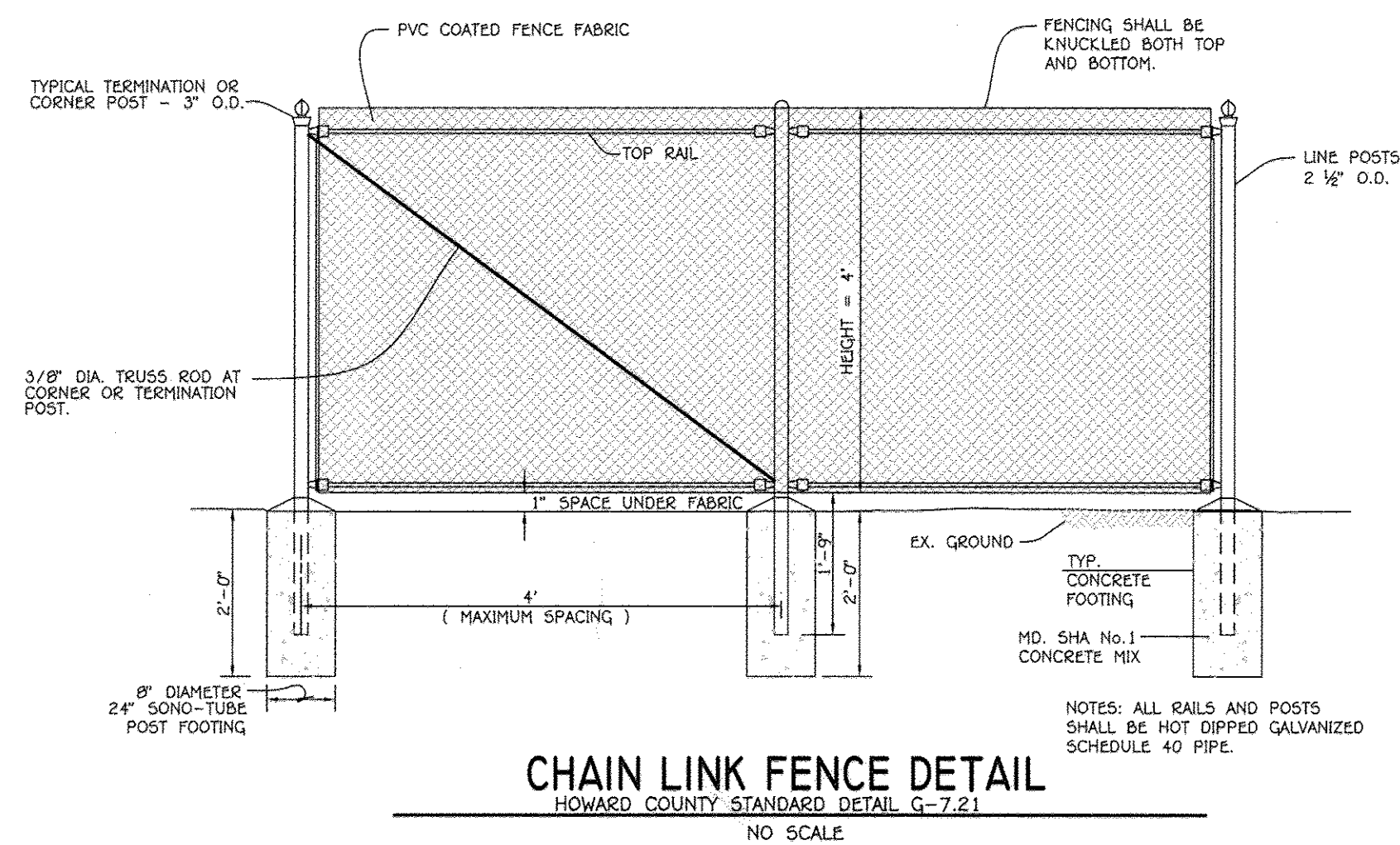
"REVISED SITE DEVELOPMENT PLAN"
AS-BUILT VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL

ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
TAX MAP No.: 35 GRID No.: 6

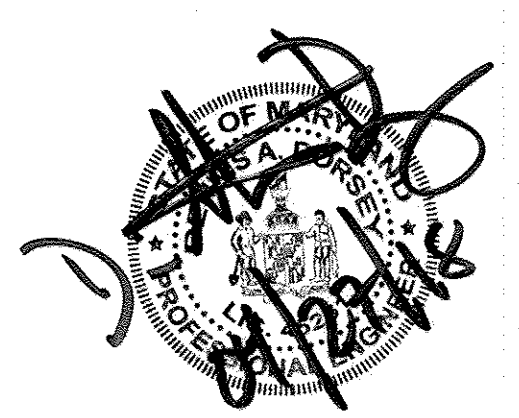
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 20' DATE: JANUARY 30, 2015
SHEET 53 OF 54



WALL ELEVATION

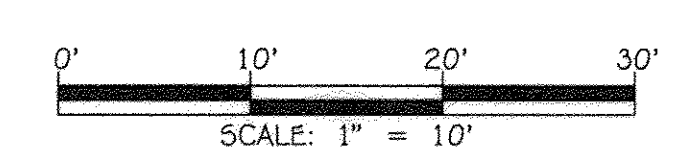


CHAIN LINK FENCE DETAIL
HOWARD COUNTY STANDARD DETAIL G-7.21
NO SCALE



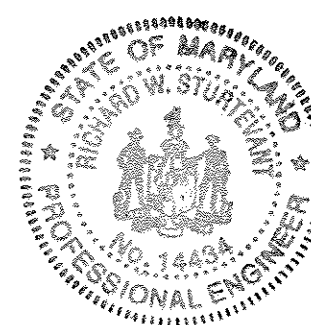
AS-BUILT CERTIFICATION
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.
SIGNATURE: *D.A.D.* DATE: 04/27/15
NAME: DEANUS A. DORSEY MD. LICENSE NO. 45261
EXP. DATE: 04/10/20

NOTE: THE PURPOSE OF THIS PLAN IS TO ADD THE RETAINING WALL ELEVATION AND FENCE DETAIL.



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC. 11, 2014

HILLIS-CARNES
ENGINEERING ASSOCIATES
10975 Guilford Road, Suite A Annapolis Junction, Maryland
(410) 880-4788 WWW.HCEA.COM Fax: (410) 880-4098
HCEA PROJECT #14311-A



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R.W. Sturtevant
Richard W. Sturtevant, P.E. 3/11/15
DATE

4/21/15	REVISE SHEET NUMBER
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>David A. Gagle</i>	3/13/15
Director - Department of Planning and Zoning	Date
<i>Scott Washington</i>	3-17-15
Chief, Division of Land Development	Date
<i>Richard W. Sturtevant</i>	3-11-15
Chief, Development Engineering Division	Date

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HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE
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Address Chart					
Parcel Number	Street Address				
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PROJECT	SECTION/AREA				
WILDE LAKE MIDDLE SCHOOL	11/1				
PARCEL	280				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
23161-23163 L15/F.90&91	24,6	NT	29,35	FIFTH	6054
WATER CODE	E-30	SEWER CODE	S523900		

RETAINING WALL ELEVATION AND FENCE DETAIL
"REVISED SITE DEVELOPMENT PLAN"
VILLAGE OF WILDE LAKE
SECTION 11 AREA 1
LOT 1
WILDE LAKE MIDDLE SCHOOL
ZONED: NT PARCEL No.: 280
TAX MAP No.: 29 GRID No.: 24
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FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 20' DATE: JANUARY 30, 2015
SHEET 54 OF 54