

SHEET NUMBER	DESCRIPTION
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3	DEMOLITION PLAN
4	SITE IMPROVEMENT PLAN
5	SITE IMPROVEMENT PLAN
6	GEOMETRY PLAN
7	GEOMETRY PLAN
8	SEDIMENT AND EROSION CONTROL PLAN - STAGE 1
9	SEDIMENT AND EROSION CONTROL PLAN - STAGE 2
10	SEDIMENT AND EROSION CONTROL PLAN - STAGE 3
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12	SOILS AND STORMDRAIN DRAINAGE AREA MAP
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28	PLAN AND PROFILE - BASKET RING ROAD STOPPING SIGHT DISTANCE
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30	PAVEMENT MARKINGS AND SIGNAGE PLAN
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32	STORM DRAIN PROFILES, DETAILS AND STRUCTURE SCHEDULE
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42	PHOTOGRAPHS PLAN
43	PHOTOGRAPHS PLAN
44	BIORETENTION FACILITY FOCAL POINT NOTES

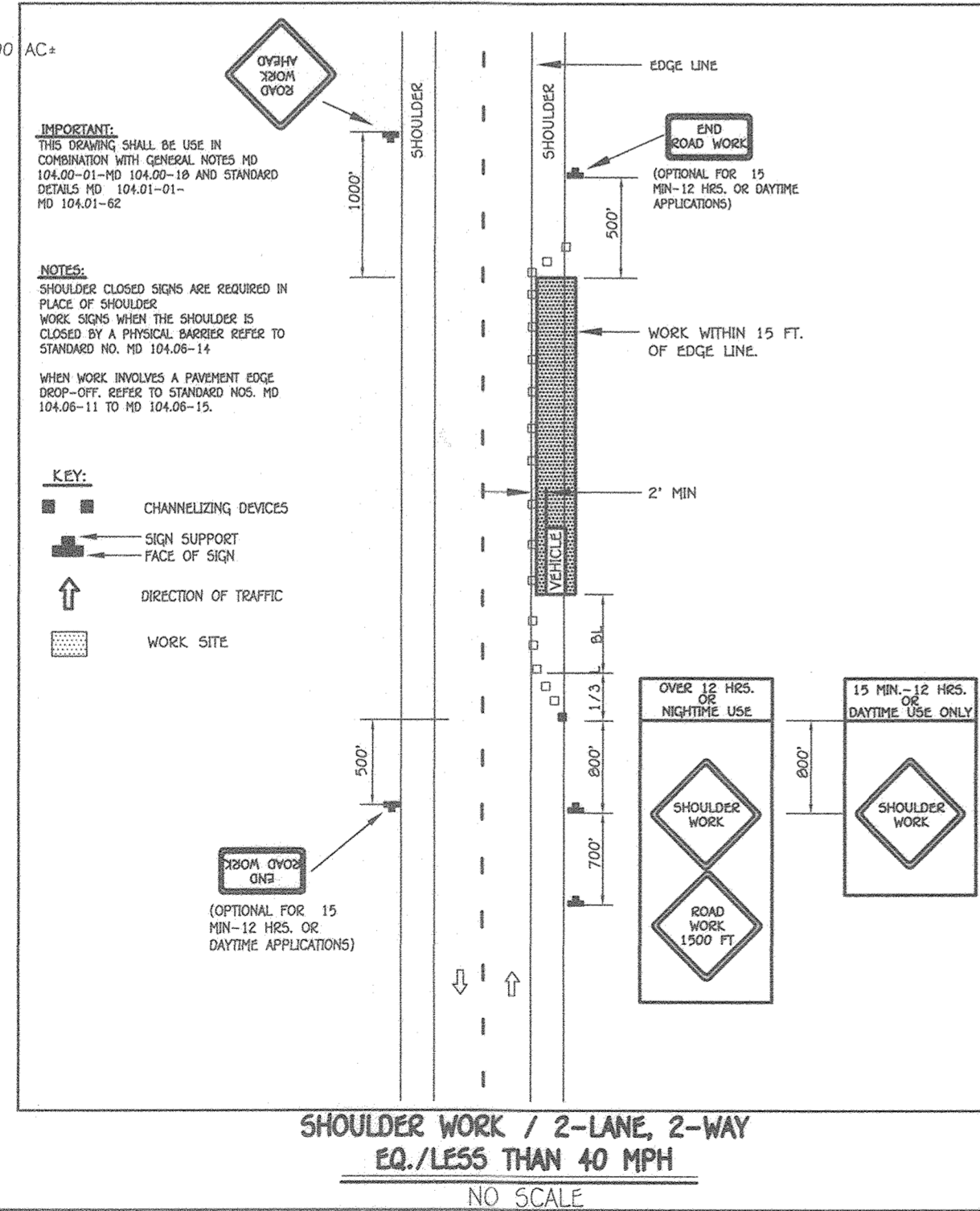
SHEET NUMBER	DESCRIPTION
45	S.W.M.F. #1 PLAN VIEW
46	DEM. F.B.D. CONT. PLAN AND RETAINING WALL
47	RETAINING WALL PROFILE AND DETAILS
48	S.W.M. PROFILES
49	S.W.M. PROFILE & STRUCTURE SCHEDULE

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/CABLE LINE
---	EXISTING GAS 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
---	SOILS DELINEATION
---	SUPER SILT FENCE

### SITE ANALYSIS DATA

- AREA TABULATION:
  - TOTAL PROJECT AREA: 10.0 AC.
  - TOTAL AREA OF C/W DEDICATION: 0 AC.
  - TOTAL AREA OF SITE: 10.0 AC.
  - BUILDING COVERAGE: ELEMENTARY SCHOOL, 60,816 SF (13.96%)
  - TOTAL AREA OF WETLANDS: N/A
  - TOTAL AREA OF FLOODPLAIN: N/A
  - TOTAL AREA OF FLOODPLAIN BUFFERS: N/A
  - TOTAL AREA OF SLOPES 25% AND GREATER: 0.36 ACRES
  - THERE ARE NO ERODIBLE SOILS ON THIS SITE.
  - LIMIT OF DISTURBANCE: 9.9 AC.
  - PROPOSED USE OF SITE OR STRUCTURE: PUBLIC ELEMENTARY SCHOOL
  - ZONED: NEWTOWN (NT) CREDITED OPEN SPACE (8.50 AC.)  
NON-CREDITED OPEN SPACE (1.50 AC.)
- PARKING SPACE DATA:
  - NUMBER OF SPACES PROPOSED UNDER THIS SITE PLAN = 110 (INCLUDING 5 ACCESSIBLE SPACES)
  - TOTAL NUMBER OF BUS STACKING SPACES PROVIDED = 10
- BUILDING COVERAGE PERMITTED: 43,560 SF OR 1.00 AC = 10% OF GROSS TRACT AREA  
 BUILDING COVERAGE EXISTING: ELEMENTARY SCHOOL = 53,942 SF  
 PORTABLE CLASSROOMS = 9,633 SF  
 TOTAL = 63,575 SF (14.59%)  
 BUILDING COVERAGE PROPOSED: ELEMENTARY SCHOOL = 60,816 SF 13.96% OF GROSS TRACT AREA
- BUILDING SQUARE FOOTAGE EXISTING: 63,575 SF TOTAL (53,942 SF SCHOOL, 9,633 SF PORTABLES)  
 BUILDING SQUARE FOOTAGE PROPOSED: 88,229 SF TOTAL (60,816 SF FIRST FLOOR, 27,413 SF SECOND FLOOR)
- OPEN SPACE TABULATION:
  - OPEN SPACE LAND USE (ENTIRE PARCEL): 10.00 AC.
  - OPEN SPACE CREDITED: 8.50 AC.
  - OPEN SPACE NON-CREDITED: 1.50 AC.
  - ACREAGES SHOWN ARE PERMITTED ACREAGES BASED UPON AMENDED FDP-51-A-II CRITERIA



# SITE DEVELOPMENT PLAN

## TALBOTT SPRINGS ELEMENTARY SCHOOL

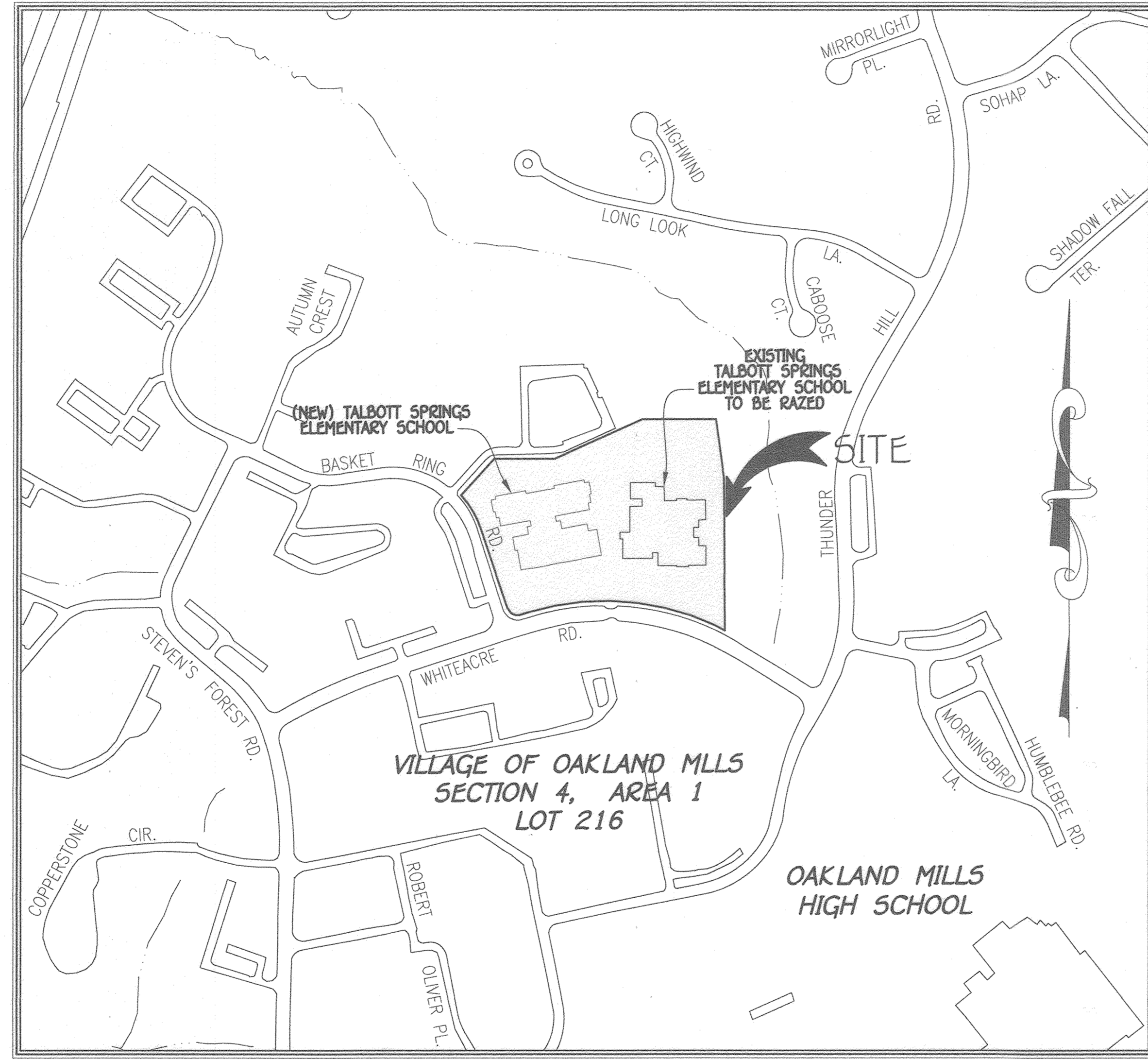
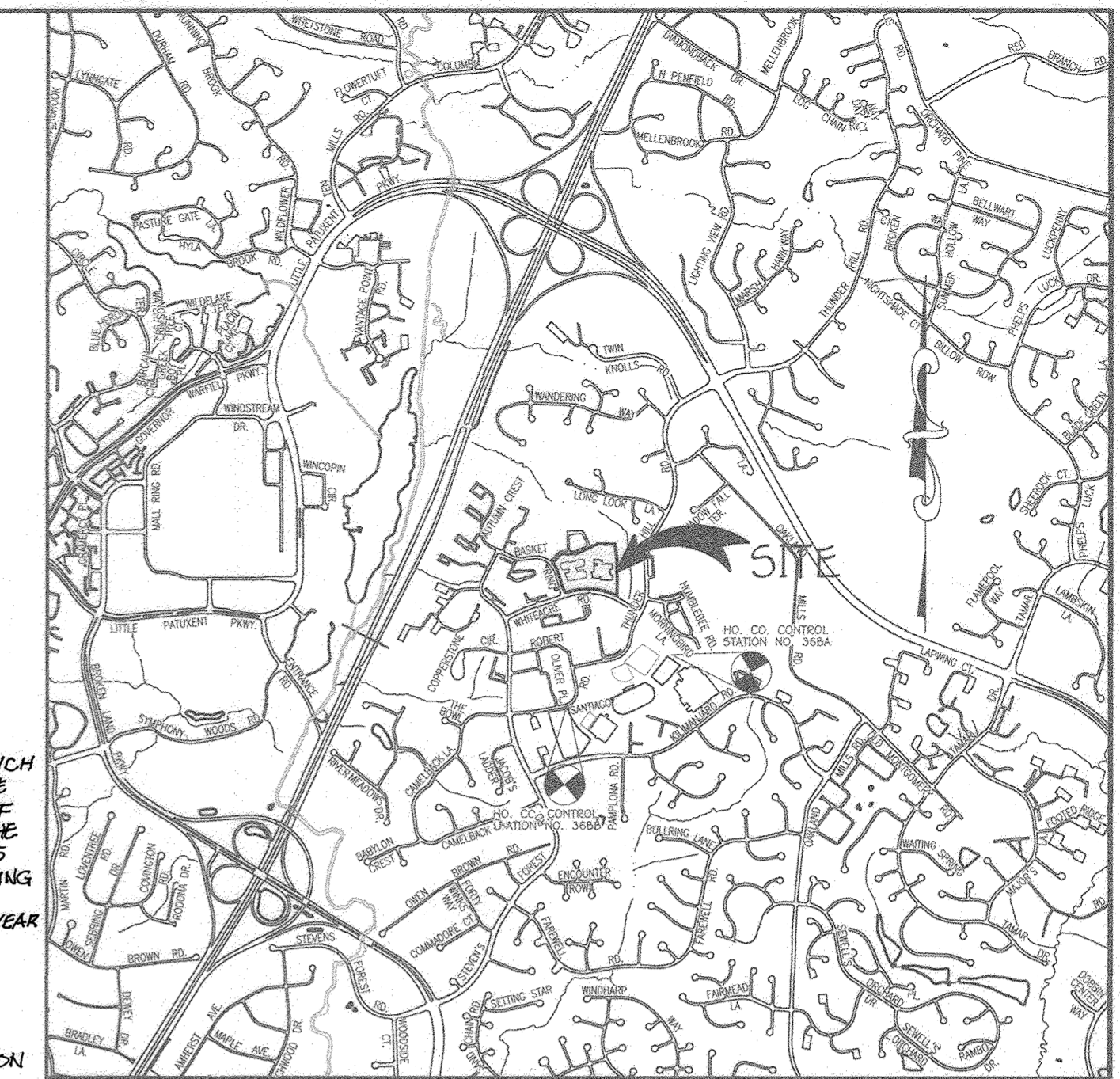
### VILLAGE OF OAKLAND MILLS

#### SECTION 4 AREA 1

#### OPEN SPACE LOT 216

#### TAX MAP No.: 36, GRID No.: 3, PARCEL No.: 283

#### SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND



BENCHMARK INFORMATION	
B.M. #1	HOWARD COUNTY GEODETIC SURVEY CONTROL 368A - HORIZONTAL - (NAD '83) LOCATED 1.5' SOUTH OF THE ASPHALT WALKWAY, NORTH OF BASEBALL BACKSTOP AT OAKLAND MILLS HIGH SCHOOL. NORTHING 562,135.536 EASTING 1,357,571.674 ELEVATION = 416.772 - VERTICAL - (NAVD '88)
B.M. #2	HOWARD COUNTY GEODETIC SURVEY CONTROL 368B - HORIZONTAL - (NAD '83) LOCATED 4.5' WEST OF SANTIAGO ROAD, BETWEEN OAKLAND MILLS INTERPATH CENTER AND OAKLAND MILLS HIGH SCHOOL ATHLETIC FIELDS. NORTHING 561,504.228 EASTING 1,356,203.715 ELEVATION = 409.248 - VERTICAL - (NAVD '88)

**DESIGN MANUAL WAIVER - THE PLANNING DIVISION APPROVED YOUR REQUEST FROM DESIGN MANUAL, VOLUME 1, SECTION 4.1.1.D.2 WHICH REQUIRED THAT THE MINIMUM SIZE OF PIPES SHALL BE 18" A 18" PIPE MAY BE USED FROM AN INLET TO THE SURFACE RUNOFF COLLECTED THROUGH THE OPENING AND/OR GRATE OF THE INLET AT THE SURFACE AND SECTION 4.1.1.D.5 WHICH REQUIRES THAT PIPE SIZES SHALL NOT BE REDUCED IN THE DIRECTION OF FLOW TO ALLOW THE EXISTING 18" PIPE TO BE THE INLET ON THE ADJACENT DOWNSTREAM PROPERTY TO REMAIN IN PLACE. THIS APPROVAL IS DUE TO THE FACT THAT THE 10 YEAR (18.4 cfs) AND 100 YEAR (25.4 cfs) FLOW IN THE RECEIVING 18" PIPE FROM EXISTING INLET 2-1 ON THE HOLLY COURT CONDOMINIUMS APPROVED UNDER SDP-72-122 IS REDUCED TO 6.78 cfs AND 16.43 cfs RESPECTIVELY FROM THE PROPOSED STORMWATER MANAGEMENT FACILITY, THAT THE EXISTING DOWNSTREAM STORM DRAIN SYSTEM IS NOT ADVERSELY IMPACTED BY THE CONNECTION AND THAT THERE ARE NO PUBLIC INFRASTRUCTURE IMPACTS.**

### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE WORKING DAYS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 2 WORKING DAYS PRIOR TO ANY DIGGING AND EXCAVATION WORK.
- PROJECT BACKGROUND: SUBDIVISION NAME: VILLAGE OF OAKLAND MILLS, SECTION 4, AREA 1, OPEN SPACE LOT 216.  
TAX MAP 36, GRID 3, P/O PARCEL NO. 283  
ZONING: THIS PROJECT IS ZONED NEWTOWN, OPEN SPACE CREDITED AND NON CREDITED PER THE COMPREHENSIVE ZONING PLAN DATED OCTOBER 06, 2013 AND FDP-51-A-II.  
ELECTION DISTRICT: SIXTH  
GROSS SITE AREA: 10.00 AC.  
NUMBER OF BUILDABLE PARCELS: 1  
AREA OF PUBLIC ROADWAY TO BE DEDICATED: 0 AC.  
AREA OF FLOODPLAIN: 0 AC.  
AREA OF 25% OR GREATER SLOPES: 0.36 AC.  
NET AREA OF TRACT: 10.00 AC.
- BOUNDARY OUTLINE BASED ON FIELD RUN SURVEY PERFORMED BY FISHER COLLINS AND CARTER, INC. DATED OCTOBER 2017.
- TOPOGRAPHIC CONTOURS BASED ON FIELD RUN SURVEY PERFORMED BY FISHER COLLINS AND CARTER, INC. DATED OCTOBER 2017.
- COORDINATES ARE BASED ON NAD 83 MARYLAND COORDINATES SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.  
368A N 562,135.536 E 1,357,571.674 ELEV. 416.772 368B N 561,504.228 E 1,356,203.715 ELEV. 409.248
- NO TRAFFIC STUDY IS REQUIRED SINCE THIS IS A HOWARD COUNTY BOARD OF EDUCATION PROJECT.
- THIS SDP IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL NO. 45-2003 AND THE AMENDED ZONING REGULATIONS PER COUNCIL BILL NO. 75-2003. DEVELOPMENT OR CONSTRUCTION ON THIS PROPERTY MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT APPLICATIONS.
- PREVIOUS DPZ FILE NUMBERS: SDP-72-178, SDP-00-11, ECP-18-037, FDP-51-A
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- EXISTING WATER IS PUBLIC (CONTRACT NO. C-268 W&S), EXISTING SEWER IS PUBLIC (CONTRACT NO. C-295 W&S). ON-SITE EXTENSIONS 44-5111-0.
- THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES ON THIS SITE BASED ON A VISUAL SITE VISIT AND BASED ON AN EXAMINATION OF THE HOWARD COUNTY CEMETERY INVENTORY MAP.
- ALL PROPOSED UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS AND SPECIFICATIONS.
- THERE IS NO FLOODPLAIN ON THIS SITE.
- STORMWATER MANAGEMENT (SWM) IS PROVIDED IN ACCORDANCE WITH THE CURRENT MDE STORMWATER DESIGN MANUAL (REVISED MAY 2009), VOLUMES I AND II, CHAPTER 3, URBAN BMP DESIGN, AND CHAPTER 5, ENVIRONMENT SITE DESIGN. GROUNDWATER RECHARGE IS STORED IN AGGREGATE RESERVOIRS BENEATH THE BMP UNDERDRAINS. THE REQUIRED 150 VOLUME WILL BE CAPTURED IN BMP'S #1 THRU #7. THESE ARE BIORETENTION FACILITIES (MDE F-6). BMP'S #1, #2, AND #6 AND MICRO-BIORETENTION FACILITIES (M-6), BMP'S #3, #4, #5, AND #7, ARE OWNED AND MAINTAINED BY THE HOWARD COUNTY PUBLIC SCHOOL SYSTEM.
- ANY DAMAGE TO COUNTY AND OR STATE OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- ALL TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY THE HOWARD COUNTY PUBLIC SCHOOL SYSTEM.
- GUTTER PAN OF CURBS SHALL BE PITCHED TO CONFORM TO THE ADJACENT DRAINAGE PATTERNS OF THE ADJOINING PAVING FOR VEHICULAR USE.
- ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS ACCESSIBILITY GUIDELINES. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE TWO PERCENT. PROVIDE A (5'X5') FIVE FOOT BY FIVE FOOT LEVEL LANDING (MAX. SLOPE 2%) AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING ENTRANCES AND EXITS. HANDRAILS SHALL BE PROVIDED ON ALL RAMPS IN ACCORDANCE WITH SECTION 505 OF THE A.D.A. STANDARDS ACCESSIBILITY GUIDELINES.
- ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED. DIMENSIONS ARE MEASURED PERPENDICULAR OR RADIAL BENEATH ITEMS UNLESS OTHERWISE NOTED.
- ALL PROPOSED ON-SITE STORM DRAINS UNDER THIS SITE DEVELOPMENT PLAN ARE PRIVATE AND WILL BE MAINTAINED BY THE HOWARD COUNTY PUBLIC SCHOOL SYSTEM.
- LANDSCAPING IS IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. NO LANDSCAPE SURETY IS REQUIRED SINCE THIS IS A HOWARD COUNTY BOARD OF EDUCATION PROJECT.
- 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 EXTEND MORE THAN TWO "QUICK PUNCH" HOLES ABOVE THE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- THE WATER METER WILL BE INSTALLED INSIDE THE BUILDING. THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC FIRE PREVENTION SPRINKLER SYSTEM.
- A MARYLAND DEPARTMENT OF THE ENVIRONMENT NATIONAL POLLUTANT DISCHARGE NOT PERMIT WILL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS SHOWN ON THIS SDP FOR THE TALBOTT SPRINGS ELEMENTARY SCHOOL. DO NOT EXCEED 0.0 ACRES OF NON-CREDITED OPEN SPACE.
- BUILDING DIMENSIONS ARE SHOWN ON SHEET 18.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS UNLESS THE ACTIVITIES ARE CONSIDERED NECESSARY OR WAIVERS ARE APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING.
- THE CONTRACTOR SHALL NOTIFY MDE, GREEN CONSTRUCTION SERVICES (410-313-2577) ONE WEEK PRIOR TO FINE GRADING AND STABILIZATION OF ANY AREAS ON THE SCHOOL SITE.
- THIS PLAN IS SUBJECT TO THE AMENDED FINAL DEVELOPMENT PLAN CRITERIA IN PHASE FIFTY ONE - A.
- THE PROJECT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BECAUSE THE SITE IS PART OF A PLANNED UTILITY DEVELOPMENT, NEW TOWN COLUMBIA.
- THE AREA OF THE EXISTING PARKING AND EXISTING DRIVE AISLES AT THE TALBOTT SPRINGS ELEMENTARY SCHOOL ALONG WITH THE PROPOSED PARKING AND PROPOSED DRIVE AISLES SHOWN ON THIS SDP FOR THE TALBOTT SPRINGS ELEMENTARY SCHOOL DO NOT EXCEED 0.0 ACRES OF NON-CREDITED OPEN SPACE.
- THE FINAL DEVELOPMENT PLAN PHASE FIFTY ONE RECORDED PLATS WERE RECORDED AS PLAT NUMBERS 25420RU 25430 ON DATE 6/10/20 AMONG THE LAND RECORDS OF HOWARD COUNTY MARYLAND.
- THE KNOX BOX IS REQUIRED TO BE PLACED ON THE FRONT OF THE BUILDING, IT SHALL BE PLACED TO THE RIGHT OF THE MAIN ENTRANCE AT A RANGE OF 4'-5" IN HEIGHT AND NO MORE THAN 6' LATERALLY FROM THE DOOR. THE BOX SHALL BE ELECTRONICALLY SUPERVISED TO NOTIFY THE OWNER THAT IT IS BEING ACCESSSED (INTEGRATED WITH THE FIRE ALARM SYSTEM). NFPA-1.10.12.1.
- HEALTH DEPARTMENT APPROVAL OF THIS SITE DEVELOPMENT PLAN (SDP) DOES NOT ENSURE APPROVAL OF BUILDING PERMIT APPLICATIONS ASSOCIATED WITH THIS PLAN. PERMIT PLANS FOR CERTAIN FACILITIES TO BE CONSTRUCTED WITHIN LIMITS DESCRIBED BY THIS SDP WILL REQUIRE AND APPROVAL BY THE HEALTH DEPARTMENT. SUCH FACILITIES MAY INCLUDE, BUT NOT LIMITED TO, THOSE WHICH HAVE SWIMMING POOLS, OR THAT SELL PREPARED OR PACKAGED FOODS, OR THAT MAY HAVE EQUIPMENT THAT EMITS RADIATION.
- 110 PARKING SPACES WERE PROVIDED BASED ON NEEDS TO SUPPORT STAFFING AND VISITORS. EXISTING PARKING (77 SPACES) WAS NOT ADEQUATE TO SUPPORT STAFFING AND VISITORS.
- ZONING DIVISION HAS DETERMINED THAT THE ATHLETIC FIELD DOES NOT NEED TO COMPLY WITH THE 30' BUILDING RESTRICTION LINE BECAUSE THIS IS CONSIDERED AN OPEN SPACE USE. THE 4' CHAIN LINK FENCE DOES NOT NEED TO COMPLY WITH THE 30' BUILDING RESTRICTION LINE BECAUSE IT IS AN OPEN FENCE (NO SCALPS).

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FIC  
ELLSWORTH CITY, MARYLAND 21142  
(410) 461-2955

APPROVED FOR PUBLIC WATER AND PUBLIC SEWER SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
B. Wilson for Maureen Rossman 9/2/2020  
COUNTY HEALTH OFFICER DATE

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
Stephanie J. Witte, RLA, P.E., LEED AP BC&D 9/1/20  
DATE

DATE	DESCRIPTION
7-7-22	REVISED SHEET INDEX AND SHEET NUMBER
	REVISION BLOCK
10-16-20	Date
10-2-20	Date
10-2-20	Date

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  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELLY  
410-313-8203

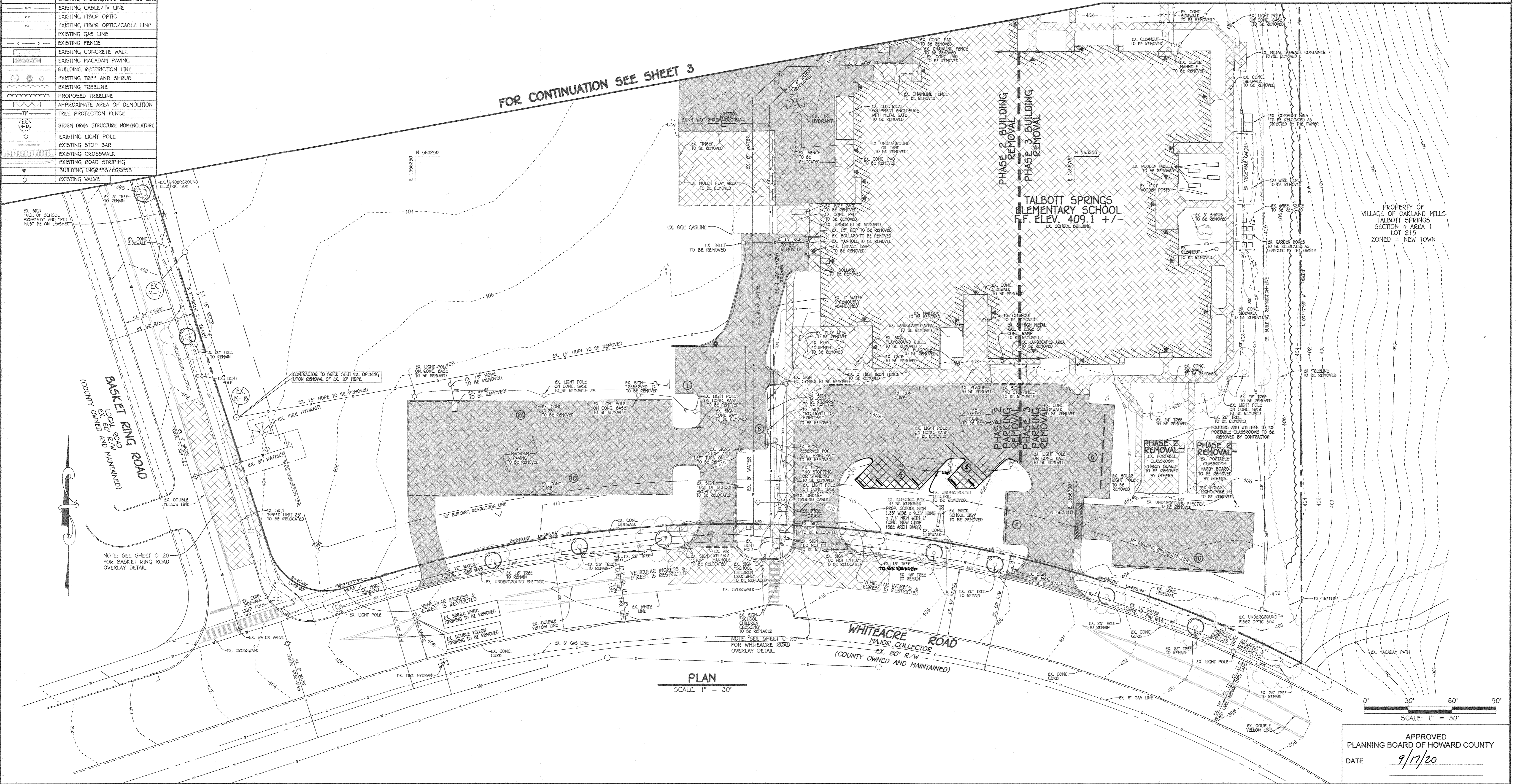
Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
ELEMENTARY SCHOOL	4/1
PLAT NOS.	BLOCK NO.
L. 643/ F. 62	3
ZONE	TAX MAP
NEW TOWN	36
ELEC. DIST.	SIXTH
CENSUS TR.	606603
WATER CODE	E 03
SEWER CODE	5580800

**TITLE SHEET**  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 OPEN SPACE LOT 216  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: AUG. 26, 2020  
 SHEET 1 OF 49

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 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
---	STORM DRAIN STRUCTURE NOMENCLATURE
---	EXISTING LIGHT POLE
---	EXISTING STOP BAR
---	EXISTING CROSSWALK
---	EXISTING ROAD STRIPPING
---	BUILDING INGRESS/EGRESS
---	EXISTING VALVE

FOR CONTINUATION SEE SHEET 3

FOR CONTINUATION SEE SHEET 3



PLAN  
SCALE: 1" = 30'

SCALE: 1" = 30'

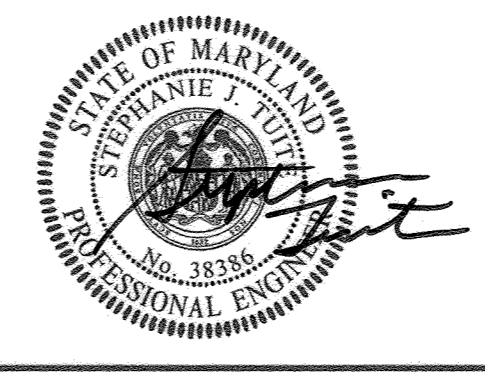
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21041  
(410) 461 - 2895

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuttle*  
STEPHANIE J. TUTTLE, R.L.A., P.E., LEED AP BC&D  
9/1/20  
DATE

7/7/22	REVISED SHEET NUMBER
9/9/21	REVISED PARKING LAYOUT
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Wally Gorn</i>	16-16-20
Director, Department of Planning and Zoning	Date
Chief, Division of Land Development	10/8/20
<i>Phil Chubb</i>	Date
Chief, Development Engineering Division	4

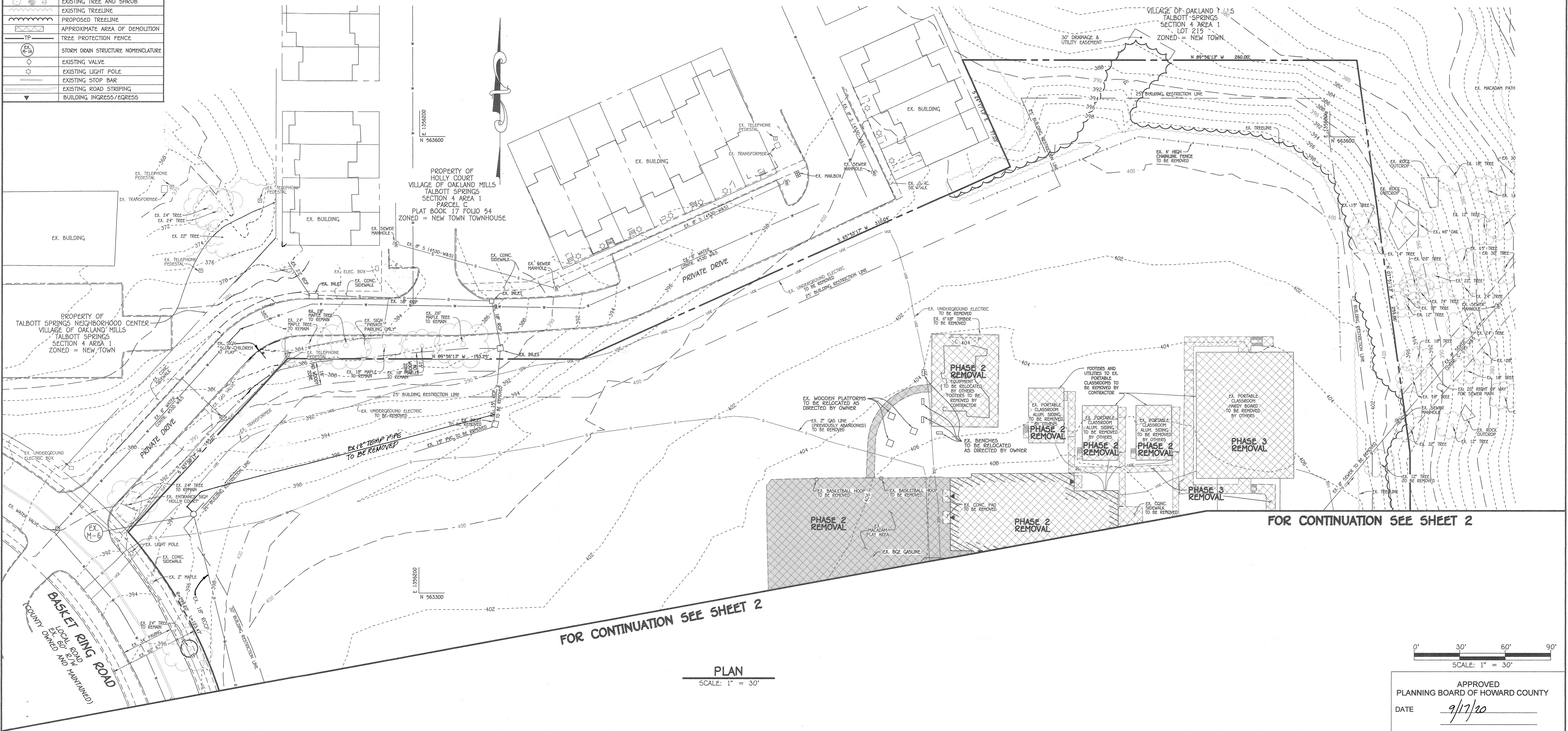
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
ELEMENTARY SCHOOL	4/1
PARCEL	283
PLAT NOS.	BLOCK NO.
L. 643/ F. 62	3
ZONE	TAX MAP
NEW TOWN	36
ELEC. DIST.	CENSUS TR.
SIXTH	606603
WATER CODE	SEWER CODE
E. 03	5580800

DEMOLITION PLAN  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 2 OF 40

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
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	BUILDING RESTRICTION LINE
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	APPROXIMATE AREA OF DEMOLITION
---	TREE PROTECTION FENCE
---	STORM DRAIN STRUCTURE NOMENCLATURE
---	EXISTING VALVE
---	EXISTING LIGHT POLE
---	EXISTING STOP BAR
---	EXISTING ROAD STRIPING
---	BUILDING INGRESS/EGRESS



PLAN  
SCALE: 1" = 30'

SCALE: 1" = 30'

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE: 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK 10772 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21045  
(410) 461-2255

"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie A. Tuite*  
STEPHANIE A. TUITE, R.L.A., P.E., LEED AP BC&D  
DATE: 9/1/20

DATE	DESCRIPTION
7/7/22	REVISED STORM DRAIN OUTFALL AND SHEET NUMBER
8/9/21	REMOVE CU FROM 4 WARD VENDED

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Director: *W. G. ...* 16-16-20  
Date: 10/11/20  
Chief, Division of Land Development: *...*  
Chief, Development Engineering Division: *...* 10-2-20

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203

STATE OF MARYLAND  
STEPHANIE A. TUITE  
LICENSE NO. 38386  
PROFESSIONAL ENGINEER

Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

PROJECT	SECTION/AREA	PARCEL
ELEMENTARY SCHOOL	4/1	283

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603

WATER CODE	SEWER CODE
E 03	5580800

DEMOLITION PLAN  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 3 OF 4

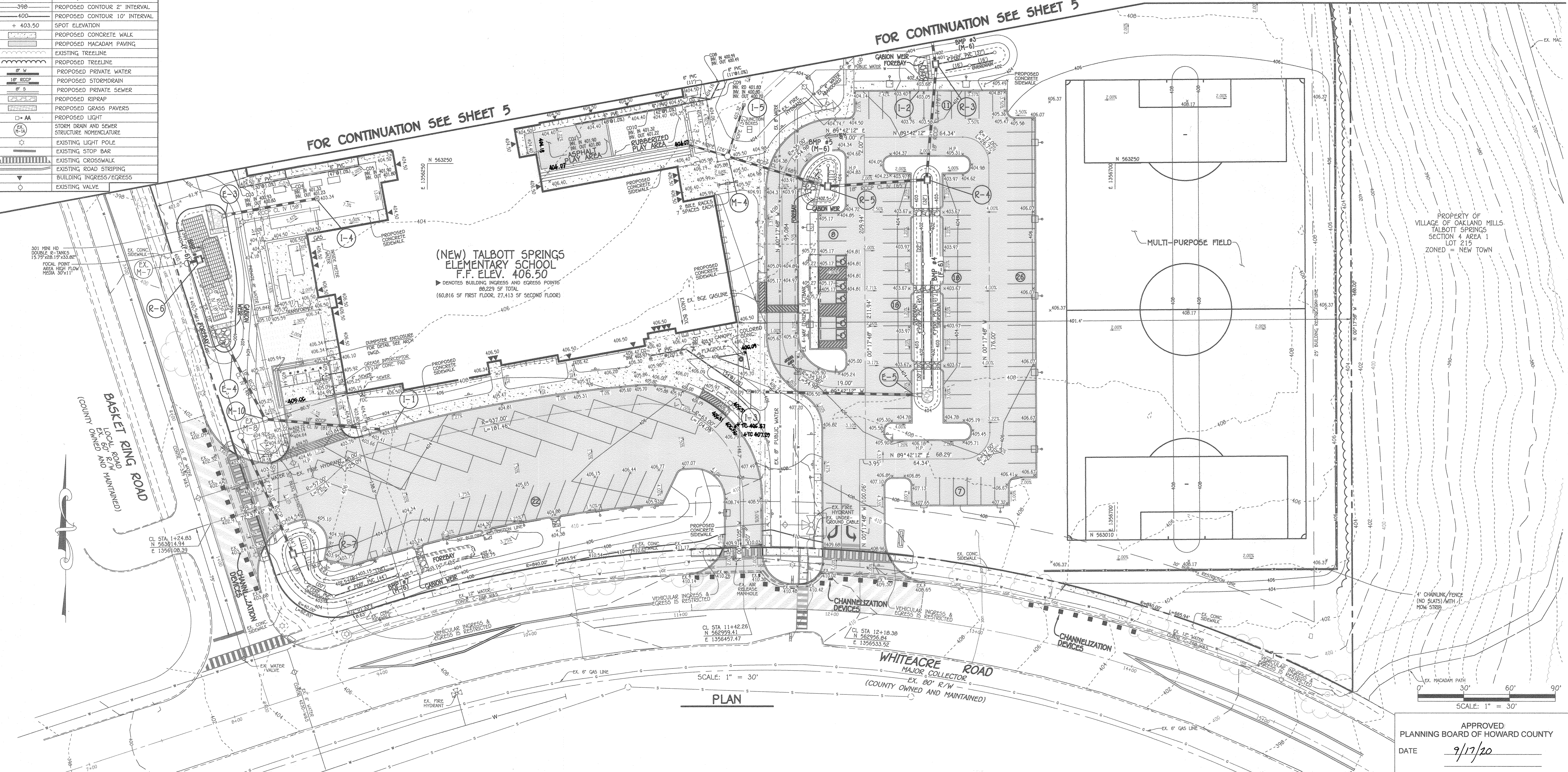
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
- - -	EXISTING SAN. SEWER LINE
- - -	EXISTING STORM DRAIN LINE
- - -	EXISTING WATER LINE
- - -	EXISTING ELECTRIC LINE
- - -	EXISTING CABLE LINE
- - -	EXISTING GAS LINE
- - -	EXISTING FIBER OPTIC
- - -	EXISTING FENCE
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
+ 403.50	SPOT ELEVATION
[Pattern]	PROPOSED CONCRETE WALK
[Pattern]	PROPOSED MACADAM PAVING
[Pattern]	EXISTING TREELINE
[Pattern]	PROPOSED TREELINE
[Symbol]	PROPOSED PRIVATE WATER
[Symbol]	PROPOSED STORMDRAIN
[Symbol]	PROPOSED PRIVATE SEWER
[Symbol]	PROPOSED RIPRAP
[Symbol]	PROPOSED GRASS PAVERS
[Symbol]	PROPOSED LIGHT
[Symbol]	STORM DRAIN AND SEWER STRUCTURE NOMENCLATURE
[Symbol]	EXISTING LIGHT POLE
[Symbol]	EXISTING STOP BAR
[Symbol]	EXISTING CROSSWALK
[Symbol]	EXISTING ROAD STRIPING
[Symbol]	BUILDING INGRESS/EGRESS
[Symbol]	EXISTING VALVE

FOR CONTINUATION SEE SHEET 5

FOR CONTINUATION SEE SHEET 5

FOR CONTINUATION SEE SHEET 5

(NEW) TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
F.F. ELEV. 406.50  
▶ DENOTES BUILDING INGRESS AND EGRESS POINTS  
88,229 SF TOTAL  
(60,816 SF FIRST FLOOR, 27,413 SF SECOND FLOOR)



SCALE: 1" = 30'  
PLAN

SCALE: 1" = 30'

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

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

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuite*  
STEPHANIE J. TUITE, R.L.A., P.E., LEED AP BC&D  
9/1/20  
DATE

7/7/22	REVISED SHEET NUMBER
9/9/21	REVISED GUT ELEV & NAME
DATE	DESCRIPTION
REVISION BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Stephanie Tuite</i>	1676-20 Date
Director, Department of Planning and Zoning	10/16/20 Date
Chief, Division of Land Development	10.16.20 Date
Chief, Development Engineering Division	

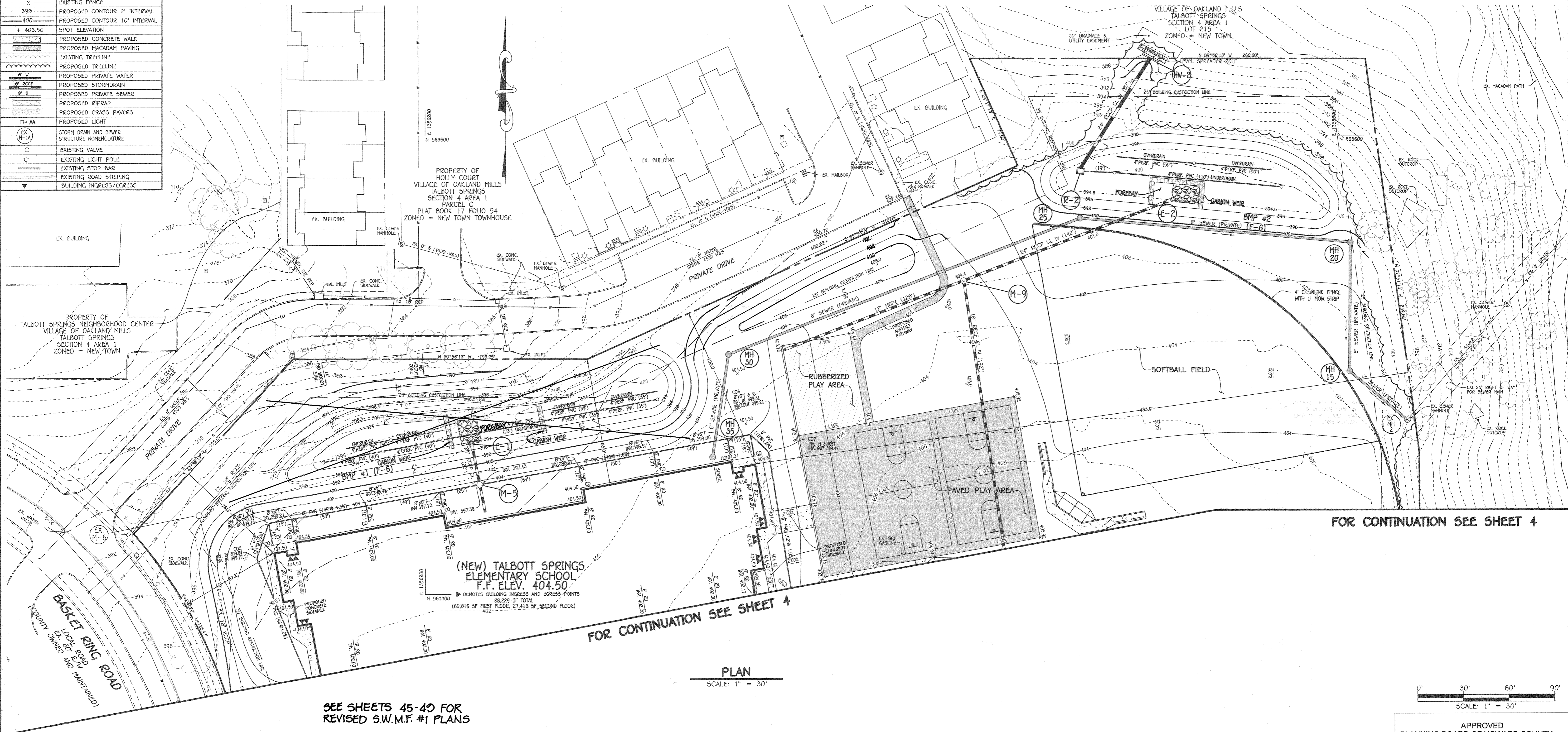
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

**SITE IMPROVEMENT PLAN**  
**VILLAGE OF OAKLAND MILLS**  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
**TALBOTT SPRINGS**  
**ELEMENTARY SCHOOL**  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30" DATE: AUG. 26, 2020  
SHEET 4 OF 42

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING ELECTRIC LINE
---	EXISTING CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FIBER OPTIC
---	EXISTING FENCE
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
+	SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED PRIVATE WATER
---	PROPOSED STORM DRAIN
---	PROPOSED PRIVATE SEWER
---	PROPOSED RIPRAP
---	PROPOSED GRASS PAVERS
---	PROPOSED LIGHT
---	STORM DRAIN AND SEWER STRUCTURE NOMENCLATURE
---	EXISTING VALVE
---	EXISTING LIGHT POLE
---	EXISTING STOP BAR
---	EXISTING ROAD STRIPING
---	BUILDING INGRESS/EGRESS

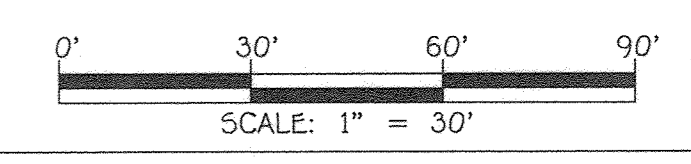


SEE SHEETS 45-49 FOR REVISED S.W.M.F. #1 PLANS

FOR CONTINUATION SEE SHEET 4

FOR CONTINUATION SEE SHEET 4

PLAN  
SCALE: 1" = 30'



APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
(410) 461-3200

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie Tuite*  
STEPHANIE V. TUITE, R.L.A. P.E., LEED AP BCAD  
9/1/20  
DATE

DATE	DESCRIPTION
7/12/22	REVISED STORM DRAIN, SWMF #1 AND SHEET NUMBER
3/9/21	REVISED BMP #1, UNDER, BEAR, GARDEN
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Shy Gerson</i>	10-16-26 Date
Director - Department of Planning and Zoning	
<i>Chief, Division of Land Development</i>	10/16/20 Date
<i>Chief, Development Engineering Division</i>	10-9-20 Date

PREPARED FOR:  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



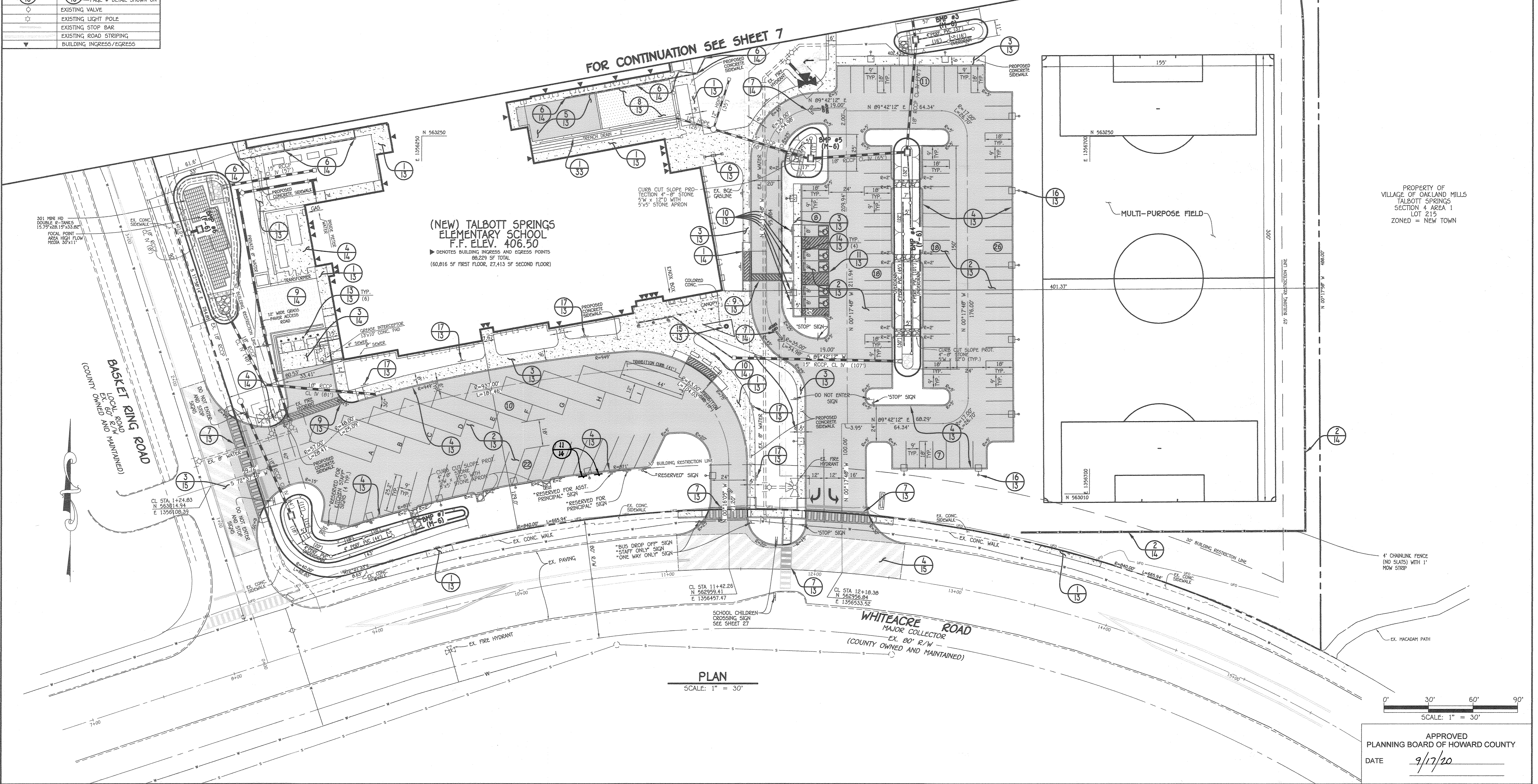
Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA				
ELEMENTARY SCHOOL	4/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

**SITE IMPROVEMENT PLAN**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 5 OF 49

11/2003/03/007/Engineering/Dwg/SDP/03007 SDP SHEET 4-5 SITE DWG, SHEET 5, 8/31/2020 9:27:33 AM, 11

FOR CONTINUATION SEE SHEET 7

LEGEND	
SYMBOL	DESCRIPTION
	BUILDING RESTRICTION LINE
	PROPOSED FENCE
	PROPOSED CONCRETE WALK
	PROPOSED MACADAM PAVING
	PROPOSED LIGHT
	DETAIL #
	PAGE # DETAIL SHOWN ON
	EXISTING VALVE
	EXISTING LIGHT POLE
	EXISTING STOP BAR
	EXISTING ROAD STRIPING
	BUILDING INGRESS/EGRESS



PROPERTY OF  
VILLAGE OF OAKLAND MILLS  
TALBOTT SPRINGS  
SECTION 4 AREA 1  
LOT 215  
ZONED = NEW TOWN

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

GEOMETRY PLAN  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 6 OF 40

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

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 36386, EXPIRATION DATE: JANUARY 12, 2022"

*Stephanie M. Tuite*  
STEPHANIE M. TUITE, RLA, P.E., LEED AP BCAD  
9/1/20  
DATE

7/7/22 REVISED SHEET NUMBER  
9/9/21 HATCHED GRASS IN BUILDING

DATE	DESCRIPTION	REVISION BLOCK
10-16-20		
10-2-20		

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

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203

STATE OF MARYLAND  
STEPHANIE M. TUITE  
PROFESSIONAL ENGINEER  
LICENSE NO. 38386

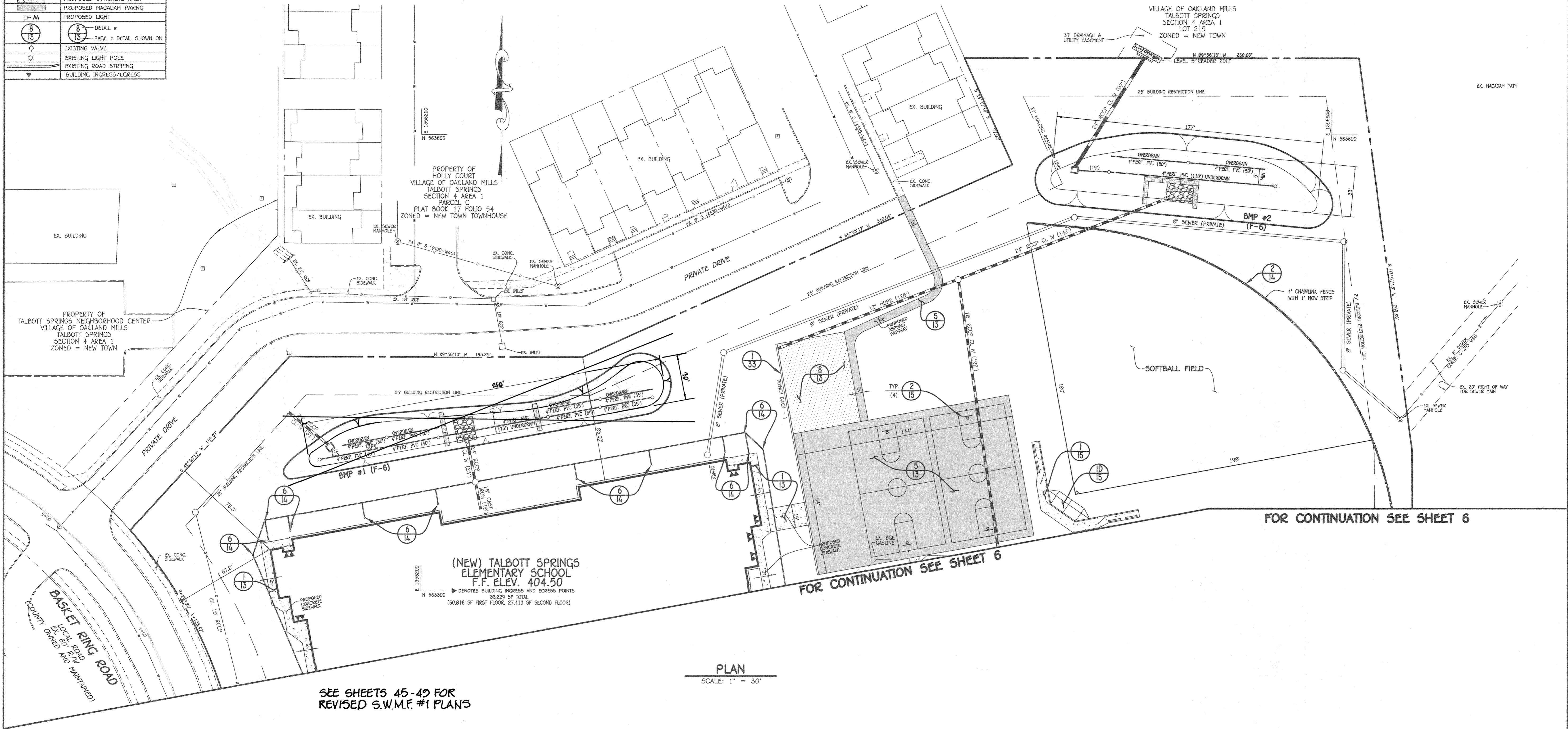
Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

PROJECT	SECTION/AREA	PARCEL
ELEMENTARY SCHOOL	4/1	283

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603

WATER CODE	SEWER CODE
E. 03	5580800

SYMBOL	DESCRIPTION
---	BUILDING RESTRICTION LINE
-x-x-	PROPOSED FENCE
▭	PROPOSED CONCRETE WALK
▭	PROPOSED MACADAM PAVING
□ AA	PROPOSED LIGHT
⊙	DETAIL #
⊙	PAGE # DETAIL SHOWN ON
○	EXISTING VALVE
⊙	EXISTING LIGHT POLE
---	EXISTING ROAD STRIPING
▼	BUILDING INGRESS/EGRESS

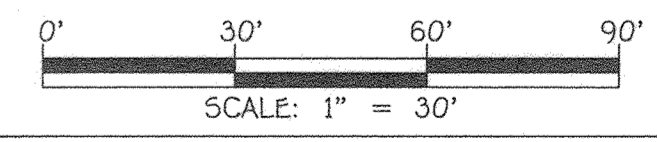


PLAN  
SCALE: 1" = 30'

SEE SHEETS 45-49 FOR REVISED S.W.M.F. #1 PLANS

FOR CONTINUATION SEE SHEET 6

FOR CONTINUATION SEE SHEET 6



APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE: 9/17/20

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

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*Stephanie J. Tuite*  
STEPHANIE J. TUITE, R.L.A. P.E., LEED AP BC&O  
DATE: 9/1/20

DATE	DESCRIPTION
7/12/22	REVISED STORM DRAIN, SWMF #1 AND SHEET NUMBER
9/9/21	KNOWS OLD 9MM OVLING

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Shy Cowan*  
Director - Department of Planning and Zoning  
Date: 10-16-20

*Chad*  
Chief, Division of Land Development  
Date: 10-2-20

*Chad*  
Chief, Development Engineering Division  
Date: 10-2-20

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203

Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

PROJECT	SECTION/AREA	PARCEL
ELEMENTARY SCHOOL	4/1	283

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643 / F. 62	3	NEW TOWN	36	SIXTH	606603

WATER CODE	SEWER CODE
E 03	5580800

GEOMETRY PLAN

VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL

ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 7 OF 49

**PIPE OUTLET SEDIMENT TRAP**

SEDIMENT TRAP #1  
 TRAP TYPE = ST-1  
 DRAINAGE AREA = 1.95 AC.  
 TOTAL STORAGE REQUIRED = 7,020 CU.FT.  
 TOTAL STORAGE PROVIDED = 7,225 CU.FT.  
 WET STORAGE REQUIRED = 3,510 CU.FT.  
 WET STORAGE PROVIDED = 3,672 CU.FT. @ 395.20  
 DRY STORAGE REQUIRED = 3,510 CU.FT.  
 DRY STORAGE PROVIDED = 3,553 CU.FT. @ 395.80  
 BOTTOM OF TRAP ELEV = 394.50  
 BOTTOM OF TRAP DIMENSIONS = 22 FT x 239 FT  
 RISER CREST (DRY STORAGE ELEV) = 395.80  
 CLEANOUT ELEV = 394.85  
 TOP OF EMBANKMENT = 397.00  
 SIDE SLOPES = 2:1  
 EMBANKMENT WIDTH = 6 FT  
 EMBANKMENT HEIGHT = 0.5 FT  
 RISER DIMENSIONS = 4'6" x 4'10" (MODIFIED K INLET)  
 BAFFLES - LENGTH REQUIRED = 2W = 2(22') = 44'  
 FOR TEMPORARY EXISTING INLET, BAFFLES HAVE BEEN ADDED. FOR NEW OUTFALL STRUCTURE BAFFLES NOT REQUIRED (DISTANCE INLET TO OUTFALL EXCEEDS 44')

PROPERTY OF TALBOTT SPRINGS NEIGHBORHOOD CENTER  
 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN

PROPERTY OF TALBOTT SPRINGS NEIGHBORHOOD CENTER  
 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN

PROPERTY OF TALBOTT SPRINGS NEIGHBORHOOD CENTER  
 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
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 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN

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 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN

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 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN

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 TALBOTT SPRINGS SECTION 4 AREA 1  
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 TALBOTT SPRINGS SECTION 4 AREA 1  
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 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN

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 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
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 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
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 TALBOTT SPRINGS SECTION 4 AREA 1  
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PROPERTY OF TALBOTT SPRINGS NEIGHBORHOOD CENTER  
 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN

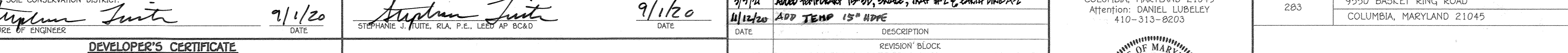
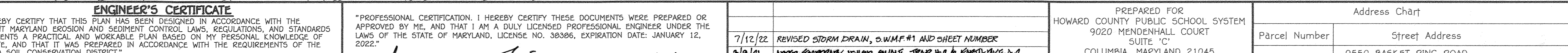
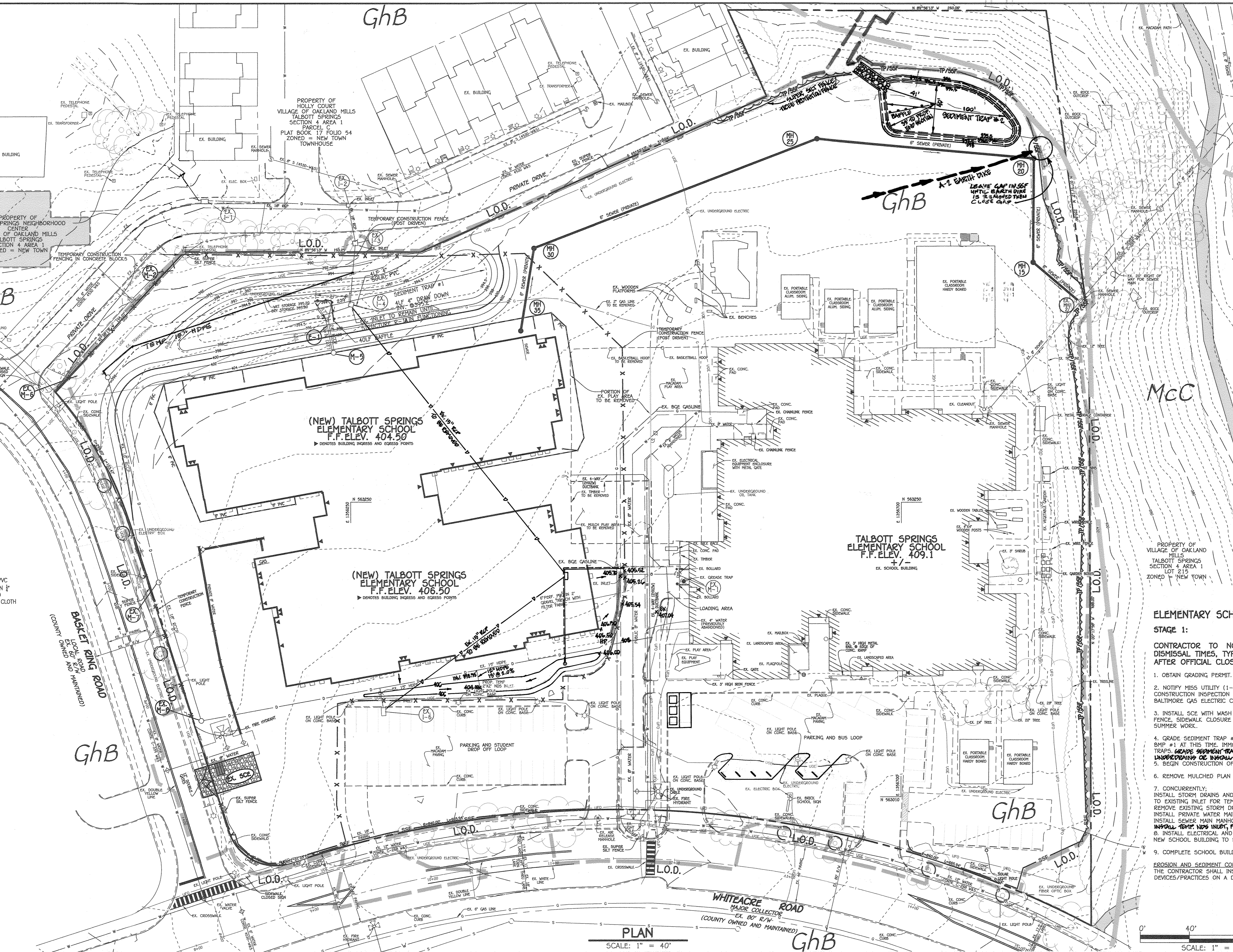
PROPERTY OF TALBOTT SPRINGS NEIGHBORHOOD CENTER  
 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN

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 VILLAGE OF OAKLAND MILLS  
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 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN

PROPERTY OF TALBOTT SPRINGS NEIGHBORHOOD CENTER  
 VILLAGE OF OAKLAND MILLS  
 TALBOTT SPRINGS SECTION 4 AREA 1  
 ZONED = NEW TOWN



**CONSTRUCTION SPECIFICATIONS**

- PERFORATE PIPE WITH 1 INCH DIAMETER PERFORATIONS SPACED 6 INCHES APART LONGITUDINALLY AND RADIALLY OR IN ACCORDANCE WITH APPROVED PLAN.
- WRAP THE PERFORATED PORTION OF THE DRAW-DOWN DEVICE FIRST WITH 3 INCH GALVANIZED HARDWARE CLOTH, THEN WITH NONWOVEN GEOTEXTILE. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS. DO NOT WEAR WITH MORE THAN ONE LAYER OF GEOTEXTILE.
- AS AN ALTERNATE TO STONE ANCHORING, SECURE DRAW-DOWN DEVICE WITH TWO 1 INCH STEEL ANGLES SET 3 FEET MINIMUM INTO THE GROUND ATTACHED TO DRAW-DOWN DEVICE BY A 1 INCH WIRE GALVANIZED STEEL STRAP OR 1/2 INCH GALVANIZED STEEL STRAP OR HEAVIER WIRE.
- REMOVE SEDIMENT WHEN IT ACCUMULATES TO CLEANOUT ELEVATION (SOIL OF THE NET STORAGE DEPTH). DEPOSIT REMOVED SEDIMENT IN AN APPROVED AREA IN A SUCH A MANNER THAT IT WILL NOT ERODE. MAINTAIN WATER TIGHT CONNECTIONS. REPLACE GEOTEXTILE AROUND PERFORATED RISER IF DRY STORAGE VOLUME DOES NOT DRAW DOWN WITHIN 10 HOURS.

**CONSTRUCTION SPECIFICATIONS**

- INSTALL STORM DRAINS AND STRUCTURES M-5 TO E-1. BLOCK EX-1-4 AND CONSTRUCT DRAW DOWN TO EXISTING INLET FOR TEMPORARY OUTFALL. REMOVE EXISTING STORM DRAIN PIPE AND EXISTING ABANDONED GAS MAIN AS SHOWN. INSTALL PRIVATE WATER MAIN TO SCHOOL.
- INSTALL SEWER MAIN MANHOLES MH 15, MH 20, MH 25, MH 30 AND MH 35.
- INSTALL TEMP. WDS INLET PIPING 4 INCH IN FRONT OF BLOCK 4 INLET TEMP. CLEANOUT TRAP & PERFORATE PIPE TO I-5.
- INSTALL ELECTRICAL AND FIBER OPTIC CONDUITS NOT ALREADY INSTALLED UNDER SUMMER WORK. GAS MAIN TO NEW SCHOOL BUILDING TO BE INSTALLED BY BOE.
- COMPLETE SCHOOL BUILDING CONSTRUCTION.

**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.

**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
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED PRIVATE WATER
---	PROPOSED STORM DRAIN
---	PROPOSED PRIVATE SEWER
---	SUPER SILT FENCE, TREE PROTECTION FENCE
---	SUPER SILT FENCE
---	TREE PROTECTION FENCE
---	LIMIT OF DISTURBANCE
---	STABILIZED CONSTRUCTION ENTRANCE
---	EARTH DIKE A-2
---	SOILS DELINEATION
---	STORM DRAIN AND SEWER STRUCTURE NOMENCLATURE

**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature: *Stephanie J. White* DATE: 9/1/20  
 SIGNATURE OF ENGINEER DATE

**DEVELOPER'S CERTIFICATE**  
 I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.  
 Signature: *John P. Blanton* DATE: 9-2-2020  
 SIGNATURE OF DEVELOPER DATE

**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022.  
 Signature: *Stephanie J. White* DATE: 9/1/20  
 STEPHANIE J. WHITE, RIA, P.E., LEAD AP BC&D DATE

**APPROVED**  
 Director, Department of Planning and Zoning  
 Signature: *John P. Blanton* DATE: 9/2/20  
 Chief, Division of Land Development DATE  
 Chief, Development Engineering Division DATE

**REVISIONS**

DATE	DESCRIPTION
7/12/22	REVISED STORM DRAIN, S.W.M.F.#1 AND SHEET NUMBER
9/9/21	ADD STORM DRAIN 18" OD, 24" DIA, TRAP #1 & 2, EARTH DIKE A-2
11/12/20	ADD TEMP 15" HDPE

**APPROVED**  
 Director, Department of Planning and Zoning  
 Signature: *John P. Blanton* DATE: 10-16-20  
 Chief, Division of Land Development DATE  
 Chief, Development Engineering Division DATE

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 'C'  
 COLUMBIA, MARYLAND 21045  
 Attention: DANIEL LUBELEY  
 410-313-8203

**APPROVED**  
 Director, Department of Planning and Zoning  
 Signature: *John P. Blanton* DATE: 10-16-20  
 Chief, Division of Land Development DATE  
 Chief, Development Engineering Division DATE

**Address Chart**

Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

**PROJECT**  
 ELEMENTARY SCHOOL  
 SECTION/AREA 4/1  
 PARCEL 283  
 PLAT NOS. BLOCK NO. ZONE TAX MAP ELEC. DIST. CENSUS TR.  
 L. 643/ F. 62 3 NEW TOWN 36 SIXTH 606603  
 WATER CODE E 03 SEWER CODE 5580800

**SEDIMENT AND EROSION CONTROL PLAN**  
 STAGE 1  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 OPEN SPACE LOT 216  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 40' DATE: AUG. 26, 2020  
 SHEET 8 OF 40

**APPROVED**  
 PLANNING BOARD OF HOWARD COUNTY  
 DATE: 9/17/20

**SEDIMENT BASIN SCHEMATIC HORIZONTAL DRAW-DOWN DEVICE**

**STANDARD SYMBOL**  
 HOOD

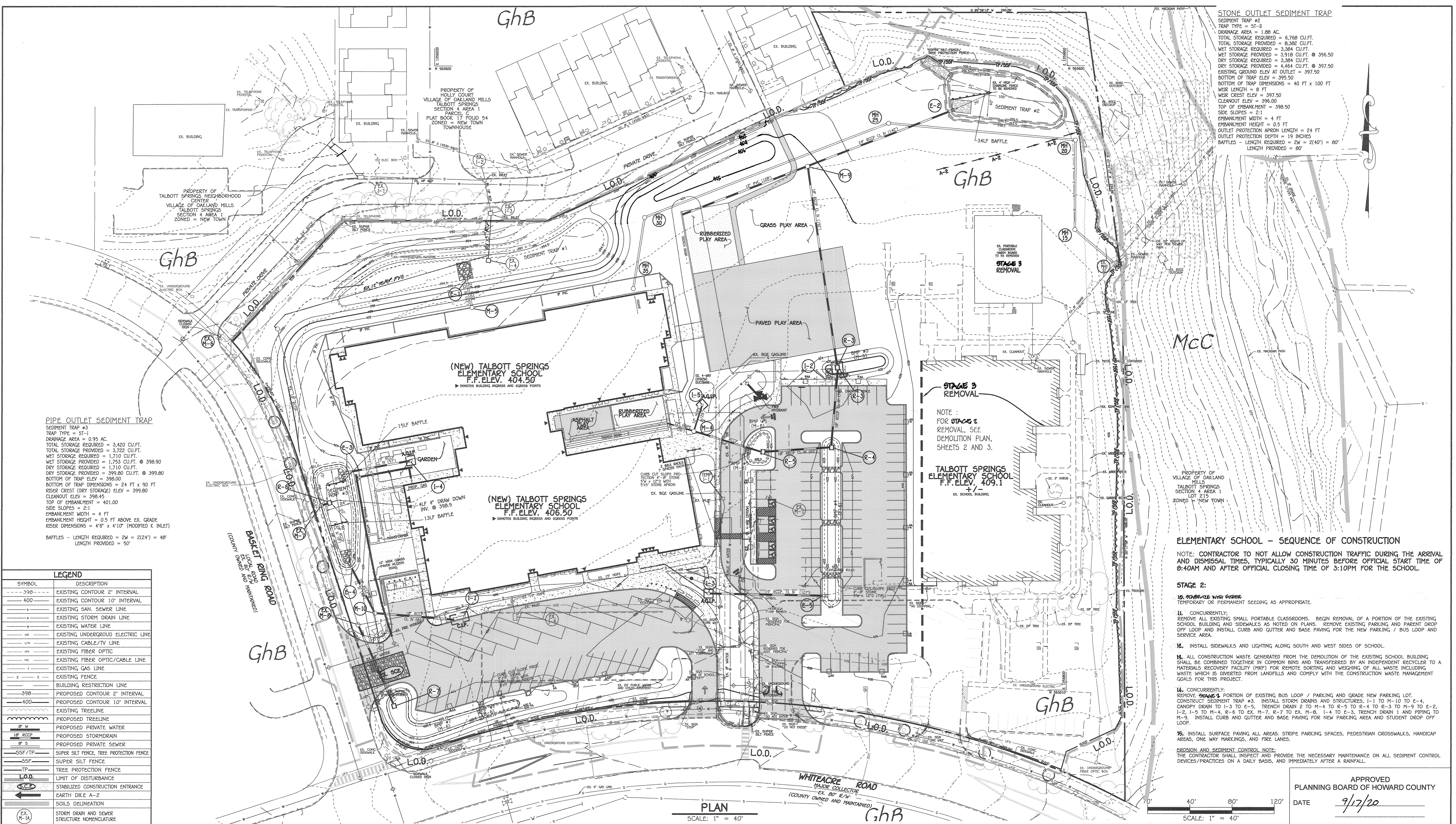
**NOTE:** THIS DETAIL MAY BE USED WITH VARIOUS SPILLWAYS INCLUDING CHIP RISERS, CONCRETE RISERS, AND WEIR WALLS.

**CONSTRUCTION SPECIFICATIONS**

- PERFORATE PIPE WITH 1 INCH DIAMETER PERFORATIONS SPACED 6 INCHES APART LONGITUDINALLY AND RADIALLY OR IN ACCORDANCE WITH APPROVED PLAN.
- WRAP THE PERFORATED PORTION OF THE DRAW-DOWN DEVICE FIRST WITH 3 INCH GALVANIZED HARDWARE CLOTH, THEN WITH NONWOVEN GEOTEXTILE. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS. DO NOT WEAR WITH MORE THAN ONE LAYER OF GEOTEXTILE.
- AS AN ALTERNATE TO STONE ANCHORING, SECURE DRAW-DOWN DEVICE WITH TWO 1 INCH STEEL ANGLES SET 3 FEET MINIMUM INTO THE GROUND ATTACHED TO DRAW-DOWN DEVICE BY A 1 INCH WIRE GALVANIZED STEEL STRAP OR 1/2 INCH GALVANIZED STEEL STRAP OR HEAVIER WIRE.
- REMOVE SEDIMENT WHEN IT ACCUMULATES TO CLEANOUT ELEVATION (SOIL OF THE NET STORAGE DEPTH). DEPOSIT REMOVED SEDIMENT IN AN APPROVED AREA IN A SUCH A MANNER THAT IT WILL NOT ERODE. MAINTAIN WATER TIGHT CONNECTIONS. REPLACE GEOTEXTILE AROUND PERFORATED RISER IF DRY STORAGE VOLUME DOES NOT DRAW DOWN WITHIN 10 HOURS.

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





**STONE OUTLET SEDIMENT TRAP**  
 SEDIMENT TRAP #2  
 TRAP TYPE = ST-II  
 DRAINAGE AREA = 1.88 AC.  
 TOTAL STORAGE REQUIRED = 6,768 CU.FT.  
 TOTAL STORAGE PROVIDED = 8,382 CU.FT.  
 WET STORAGE REQUIRED = 3,384 CU.FT.  
 WET STORAGE PROVIDED = 3,918 CU.FT. @ 398.50  
 DRY STORAGE REQUIRED = 3,384 CU.FT.  
 DRY STORAGE PROVIDED = 4,464 CU.FT. @ 397.50  
 EXISTING GROUND ELEV. AT OUTLET = 397.50  
 BOTTOM OF TRAP DIMENSIONS = 40 FT x 100 FT  
 WEIR LENGTH = 8 FT  
 WEIR CREST ELEV. = 397.50  
 CLEANOUT ELEV. = 396.00  
 TOP OF EMBANKMENT = 398.50  
 SIDE SLOPES = 2:1  
 EMBANKMENT WIDTH = 4 FT  
 EMBANKMENT HEIGHT = 0.5 FT  
 OUTLET PROTECTION APRON LENGTH = 24 FT  
 OUTLET PROTECTION DEPTH = 19 INCHES  
 BAFFLES - LENGTH REQUIRED = 2W = 2(40') = 80'  
 LENGTH PROVIDED = 80'

**PIPE OUTLET SEDIMENT TRAP**  
 SEDIMENT TRAP #3  
 TRAP TYPE = ST-I  
 DRAINAGE AREA = 0.95 AC.  
 TOTAL STORAGE REQUIRED = 3,420 CU.FT.  
 TOTAL STORAGE PROVIDED = 3,722 CU.FT.  
 WET STORAGE REQUIRED = 1,710 CU.FT.  
 WET STORAGE PROVIDED = 1,753 CU.FT. @ 398.90  
 DRY STORAGE REQUIRED = 1,710 CU.FT.  
 DRY STORAGE PROVIDED = 399.00 CU.FT. @ 399.00  
 BOTTOM OF TRAP DIMENSIONS = 24 FT x 90 FT  
 RISER CREST (DRY STORAGE) ELEV. = 399.00  
 CLEANOUT ELEV. = 399.45  
 TOP OF EMBANKMENT = 401.00  
 SIDE SLOPES = 2:1  
 EMBANKMENT WIDTH = 4 FT  
 EMBANKMENT HEIGHT = 0.5 FT ABOVE EX. GRADE  
 RISER DIMENSIONS = 4'6" x 4'10" (MODIFIED K INLET)  
 BAFFLES - LENGTH REQUIRED = 2W = 2(24') = 48'  
 LENGTH PROVIDED = 50'

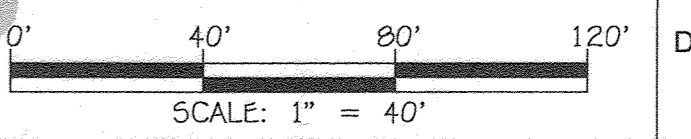
**NOTE:**  
 FOR STAGE 3  
 REMOVAL, SEE  
 DEMOLITION PLAN,  
 SHEETS 2 AND 3.

**ELEMENTARY SCHOOL - SEQUENCE OF CONSTRUCTION**  
 NOTE: CONTRACTOR TO NOT ALLOW CONSTRUCTION TRAFFIC DURING THE ARRIVAL AND DISMISSAL TIMES, TYPICALLY 30 MINUTES BEFORE OFFICIAL START TIME OF 8:40AM AND AFTER OFFICIAL CLOSING TIME OF 3:10PM FOR THE SCHOOL.

- STAGE 2:**
10. STABILIZE WITH GRASS  
 TEMPORARY OR PERMANENT SEEDING AS APPROPRIATE.
  11. CONCURRENTLY:  
 REMOVE ALL EXISTING SMALL PORTABLE CLASSROOMS. BEGIN REMOVAL OF A PORTION OF THE EXISTING SCHOOL BUILDING AND SIDEWALKS AS NOTED ON PLANS. REMOVE EXISTING PARKING AND PARENT DROP OFF LOOP AND INSTALL CURB AND GUTTER AND BASE PAVING FOR THE NEW PARKING / BUS LOOP AND SERVICE AREA.
  12. INSTALL SIDEWALKS AND LIGHTING ALONG SOUTH AND WEST SIDES OF SCHOOL.
  13. ALL CONSTRUCTION WASTE GENERATED FROM THE DEMOLITION OF THE EXISTING SCHOOL BUILDING SHALL BE COMBINED TOGETHER IN COMMON BINS AND TRANSFERRED 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.
  14. CONCURRENTLY:  
 REMOVE STAGE 3 PORTION OF EXISTING BUS LOOP / PARKING AND GRADE NEW PARKING LOT. CONSTRUCT SEDIMENT TRAP #3. INSTALL STORM DRAINS AND STRUCTURES, I-1 TO M-10 TO E-4. CANOPY DRAIN TO I-3 TO E-5. TRENCH DRAIN 2 TO M-4 TO R-5 TO R-4 TO R-3 TO M-9 TO E-2. I-2, I-5 TO M-4, R-6 TO EX. M-7, R-7 TO EX. M-8, I-4 TO E-3. TRENCH DRAIN 1 AND PIPING TO M-9. INSTALL CURB AND GUTTER AND BASE PAVING FOR NEW PARKING AREA AND STUDENT DROP OFF LOOP.
  15. INSTALL SURFACE PAVING ALL AREAS. STRIPE PARKING SPACES, PEDESTRIAN CROSSWALKS, HANDICAP AREAS, ONE WAY MARKINGS, AND FIRE LANES.
- 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.

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SANI. 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
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED PRIVATE WATER
---	PROPOSED STORM DRAIN
---	PROPOSED PRIVATE SEWER
---	SUPER SILT FENCE, TREE PROTECTION FENCE
---	SUPER SILT FENCE
---	TREE PROTECTION FENCE
---	LIMIT OF DISTURBANCE
---	STABILIZED CONSTRUCTION ENTRANCE
---	EARTH DIKE A-2
---	SOILS DELINEATION
---	STORM DRAIN AND SEWER STRUCTURE NOMENCLATURE

**PLAN**  
 SCALE: 1" = 40'



APPROVED  
 PLANNING BOARD OF HOWARD COUNTY  
 DATE 9/17/20  
 SCALE: 1" = 40'

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 1072 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 481-2899

**ENGINEER'S CERTIFICATE**  
 "I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
 Signature: Stephen Tuite  
 DATE: 9/1/20

**DEVELOPER'S CERTIFICATE**  
 "I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR."  
 Signature: James J. Talbot  
 DATE: 9-2-2020

"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
 Signature: Stephen Tuite  
 DATE: 9/1/20

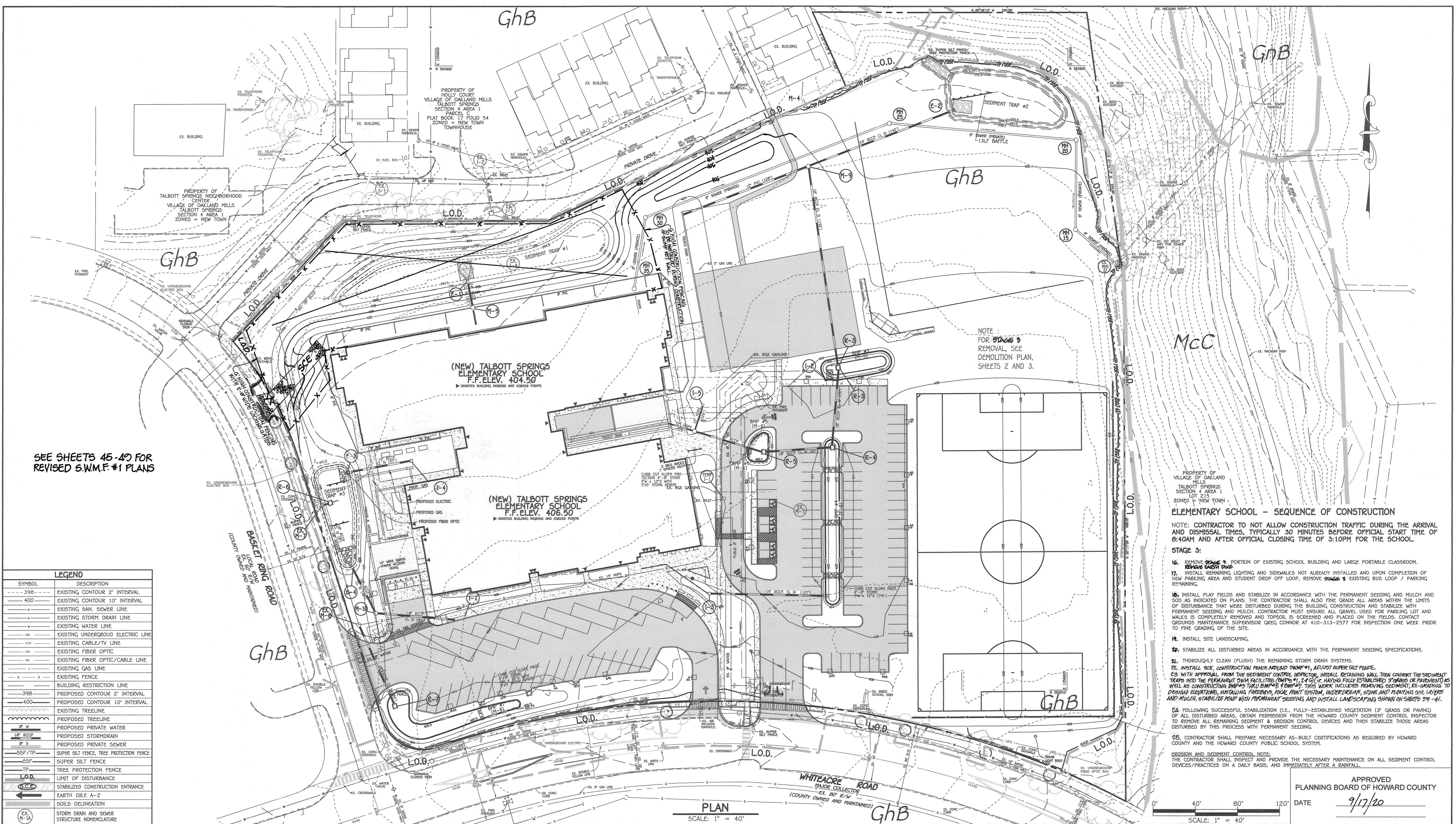
"THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT."  
 Signature: John R. Robertson  
 DATE: 9/2/20

DATE	DESCRIPTION	REVISION BLOCK
7/12/22	REVISED STORM DRAIN, S.W.M.F. #1 AND SHEET NUMBER	
3/9/21	REMOVE BARRIERS AND CHANGED PAGES TO 3006	
	APPROVED: DEPARTMENT OF PLANNING AND ZONING	
	Director - Department of Planning and Zoning	10-16-20
	Chief, Division of Land Development	10-16-20
	Chief, Development Engineering Division	10-18-20

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 'C'  
 COLUMBIA, MARYLAND 21045  
 Attention: DANIEL LUBELEY  
 410-313-8203

PROJECT	SECTION/AREA	PARCEL
ELEMENTARY SCHOOL	4/1	283
PLAT NOS.	BLOCK NO.	ZONE
L. 643/ F. 62	3	NEW TOWN
TAX MAP No.: 36	ELEC. DIST. SIXTH	CENSUS TR. 606603
WATER CODE E 03	SEWER CODE 5580800	

**SEDIMENT AND EROSION CONTROL PLAN**  
**STAGE 2**  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 OPEN SPACE LOT 216  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 40' DATE: AUG. 26, 2020  
 SHEET 9 OF 40



SEE SHEETS 45-49 FOR REVISED S.W.M.F. #1 PLANS

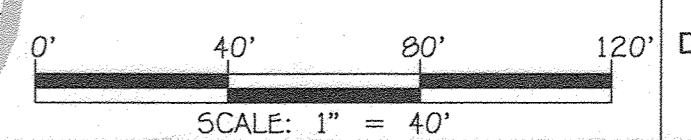
NOTE:  
FOR STAGE 3  
REMOVAL, SEE  
DEMOLITION PLAN,  
SHEETS 2 AND 3.

**ELEMENTARY SCHOOL - SEQUENCE OF CONSTRUCTION**  
NOTE: CONTRACTOR TO NOT ALLOW CONSTRUCTION TRAFFIC DURING THE ARRIVAL AND DISMISSAL TIMES, TYPICALLY 30 MINUTES BEFORE OFFICIAL START TIME OF 8:40AM AND AFTER OFFICIAL CLOSING TIME OF 3:10PM FOR THE SCHOOL.

- STAGE 3:**
16. REMOVE STAGE 3 PORTION OF EXISTING SCHOOL BUILDING AND LARGE PORTABLE CLASSROOM.
  17. INSTALL REMAINING LIGHTING AND SIDEWALKS NOT ALREADY INSTALLED AND UPON COMPLETION OF NEW PARKING AREA AND STUDENT DROP OFF LOOP. REMOVE STAGE 3 EXISTING BUS LOOP / PARKING REMAINING.
  18. INSTALL PLAY FIELDS AND STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDING AND MULCH AND SOD 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 GROUNDING MAINTENANCE SUPERVISOR GREG CONNOR AT 410-313-2577 FOR INSPECTION ONE WEEK PRIOR TO FINE GRADING OF THE SITE.
  19. INSTALL SITE LANDSCAPING.
  20. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS.
  21. THOROUGHLY CLEAN (FLUSH) THE REMAINING STORM DRAIN SYSTEMS.
  22. INSTALL SGE, CONSTRUCTION FENCE AROUND SWMF #1, ADJUST SUPER SILT FENCE.
  23. WITH APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, INSTALL RETAINING WALL THEN CONVERT THE SEDIMENT TRAP INTO THE PERMANENT SWM FACILITIES (BAPS #1, 2 & 3) (E. HAVING FULLY ESTABLISHED STABILIZED OR PAVED) AS WELL AS CONSTRUCTING BMP#5 (TWO BMP#5) (E. HAVING FULLY ESTABLISHED STABILIZED OR PAVED) TO DESIGN ELEVATIONS, INSTALLING PEREBAY'S POOL PAINT SYSTEM, UNDER DRAIN, STONE AND PLANTING SOIL LAYERS AND MULCH, STABILIZE ROAD WITH PERMANENT SEEDING AND INSTALL LANDSCAPING SHOWN ON SHEETS 29 -41.
  24. 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.
  25. CONTRACTOR SHALL PREPARE NECESSARY AS-BUILT CERTIFICATIONS AS REQUIRED BY HOWARD COUNTY AND THE HOWARD COUNTY PUBLIC SCHOOL SYSTEM.
- 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.

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
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---	EXISTING CABLE/TV LINE
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---	EXISTING TREELINE
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---	LIMIT OF DISTURBANCE
---	STABILIZED CONSTRUCTION ENTRANCE
---	EARTH DIKE A-2
---	SOILS DELINEATION
---	STORM DRAIN AND SEWER STRUCTURE NOMENCLATURE

**PLAN**  
SCALE: 1" = 40'



APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE: 9/17/20

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE: PARC - 10722 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
(410) 461-2995

**ENGINEER'S CERTIFICATE**  
"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
Signature: *Stephanie J. Witte* DATE: 9/11/20  
STEPHANIE J. WITTE, R.L.A., P.E., LEED AP-BC&D

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
Signature: *Stephanie J. Witte* DATE: 9/11/20  
STEPHANIE J. WITTE, R.L.A., P.E., LEED AP-BC&D

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Signature: *John P. Rhettan* DATE: 9-2-2020

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
Signature: *John P. Rhettan* DATE: 9/2/20  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Director: *John P. Rhettan* DATE: 10-16-20  
Chief, Division of Planning and Zoning  
Chief, Development Engineering Division: *John P. Rhettan* DATE: 10-2-20

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
ELEMENTARY SCHOOL	4/1
PLAT NOS.	BLOCK NO.
L. 643/ F. 62	3
WATER CODE	SEWER CODE
E 03	550000

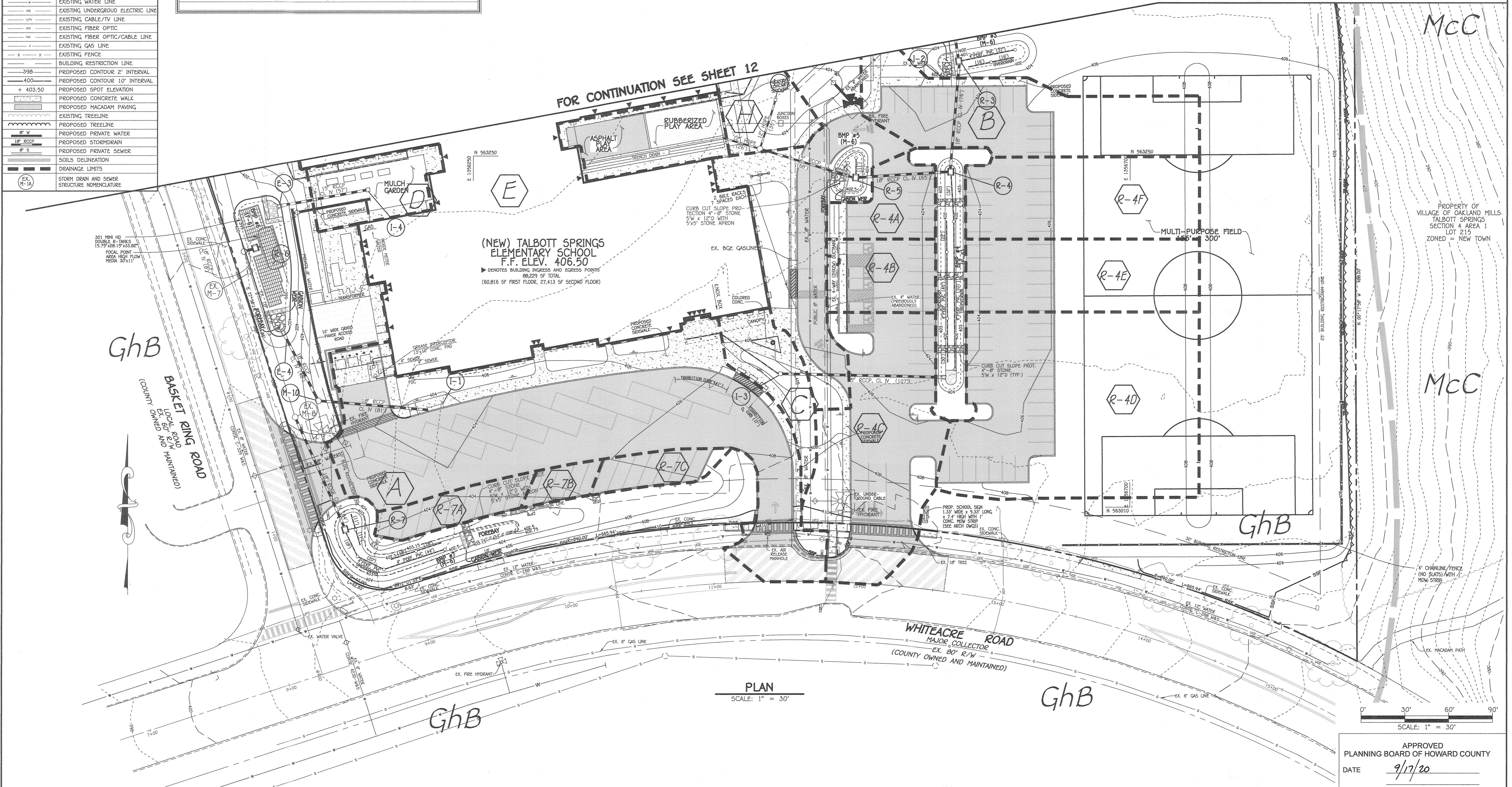
**SEDIMENT AND EROSION CONTROL PLAN**  
**STAGE 3**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 40'  
DATE: AUG. 26, 2020  
SHEET 10 OF 40

**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
---	PROPOSED SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED PRIVATE WATER
---	PROPOSED STORM DRAIN
---	PROPOSED PRIVATE SEWER
---	SOILS DELINEATION
---	DRAINAGE LIMITS
---	STORM DRAIN AND SEWER STRUCTURE NOMENCLATURE

**SOILS LEGEND**

SOIL	NAME	GROUP
GhB	GLENELG URBAN LOAM COMPLEX, 0%-8% SLOPES, K VALUE=0.20	B
Mcc	MANOR CHANNERY LOAM, 8%-15% SLOPES, K VALUE NOT DEFINED BY NRCS	B



**(NEW) TALBOTT SPRINGS  
ELEMENTARY SCHOOL**  
F.F. ELEV. 406.50  
▶ DENOTES BUILDING INGRESS AND EGRESS POINTS  
98,229 SF TOTAL  
(60,816 SF FIRST FLOOR, 27,413 SF SECOND FLOOR)

**PLAN**  
SCALE: 1" = 30'

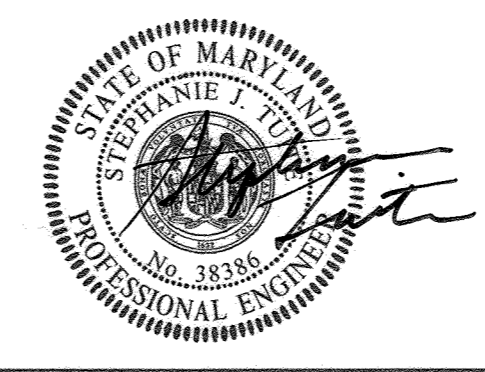
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

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

"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie V. Tuite*  
STEPHANIE V. TUITE, P.L.E., LEED AP BC&D  
9/1/20  
DATE

7/7/22	REVISED SHEET NUMBER
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Stephanie V. Tuite</i>	10-16-20 Date
Director - Department of Planning and Zoning	
<i>W. Tuite</i>	10-3-20 Date
Chief, Development Engineering Division	

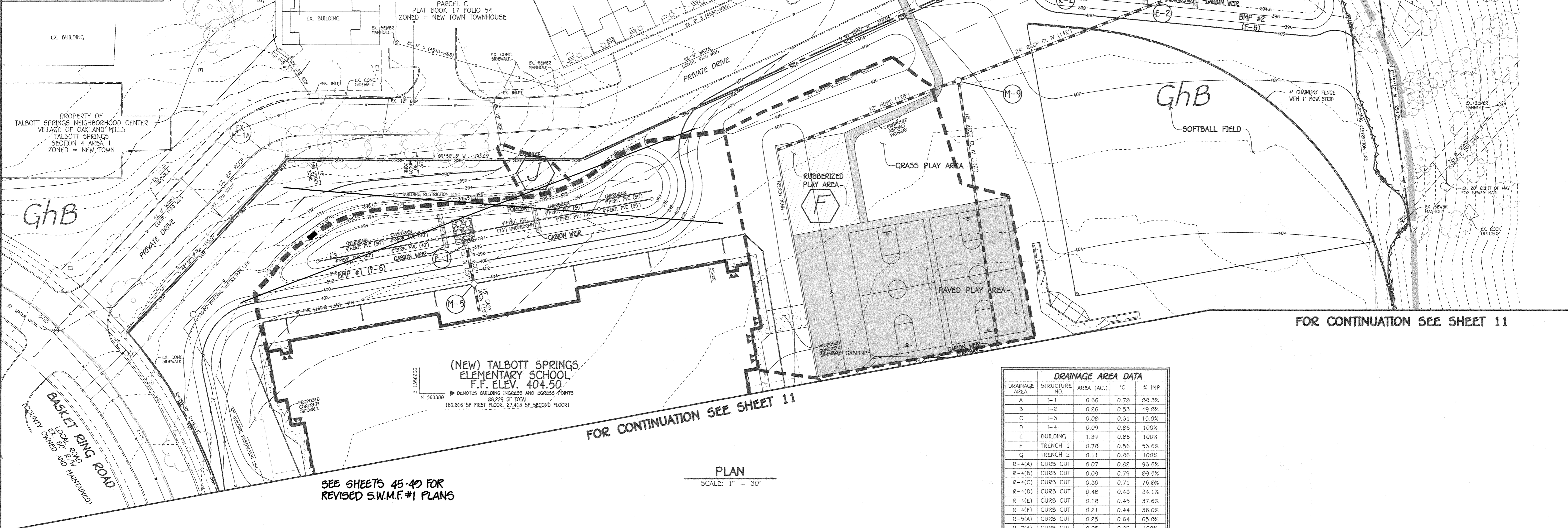
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	
ELEMENTARY SCHOOL	SECTION/AREA 4/1
PLAT NOS. L 643/ F. 62	BLOCK NO. 3
ZONE NEW TOWN	TAX MAP 36
WATER CODE E 03	ELEC. DIST. SIXTH
	CENSUS TR. 606603
	SEWER CODE 5580800

**SOILS AND STORMDRAIN  
DRAINAGE AREA MAP**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 11 OF 42

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
+	PROPOSED SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED PRIVATE WATER
---	PROPOSED STORM DRAIN
---	PROPOSED PRIVATE SEWER
---	SOILS DELINEATION
---	DRAINAGE LIMITS
---	STORM DRAIN AND SEWER STRUCTURE NOMENCLATURE



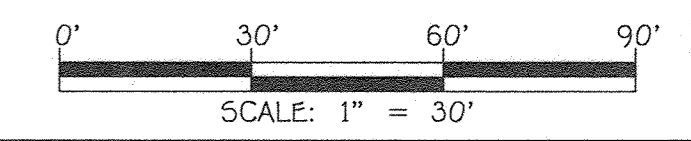
FOR CONTINUATION SEE SHEET 11

PLAN  
SCALE: 1" = 30'

SEE SHEETS 45-49 FOR REVISED S.W.M.F.#1 PLANS

DRAINAGE AREA DATA				
DRAINAGE AREA	STRUCTURE NO.	AREA (AC.)	% C	% IMP.
A	1-1	0.66	0.78	88.3%
B	1-2	0.26	0.53	49.8%
C	1-3	0.08	0.31	15.0%
D	1-4	0.09	0.06	100%
E	BUILDING	1.39	0.86	100%
F	TRENCH 1	0.78	0.56	53.6%
G	TRENCH 2	0.11	0.86	100%
R-4(A)	CURB CUT	0.07	0.82	93.6%
R-4(B)	CURB CUT	0.09	0.79	89.5%
R-4(C)	CURB CUT	0.30	0.71	76.8%
R-4(D)	CURB CUT	0.48	0.43	34.1%
R-4(E)	CURB CUT	0.18	0.45	37.6%
R-4(F)	CURB CUT	0.21	0.44	36.0%
R-5(A)	CURB CUT	0.25	0.64	65.8%
R-7(A)	CURB CUT	0.05	0.86	100%
R-7(B)	CURB CUT	0.02	0.86	100%
R-7(C)	CURB CUT	0.04	0.81	91.6%

SOILS LEGEND		
SOIL	NAME	GROUP
GhB	GLENELG URBAN LOAM COMPLEX, 0%-8% SLOPES, K VALUE=0.20	B
McC	MANOR CHANNERY LOAM, 8%-15% SLOPES, K VALUE NOT DEFINED BY NRCS	B



APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

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CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELKJOTT CITY, MARYLAND 21042  
(410) 461-2995

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9/1/20  
DATE

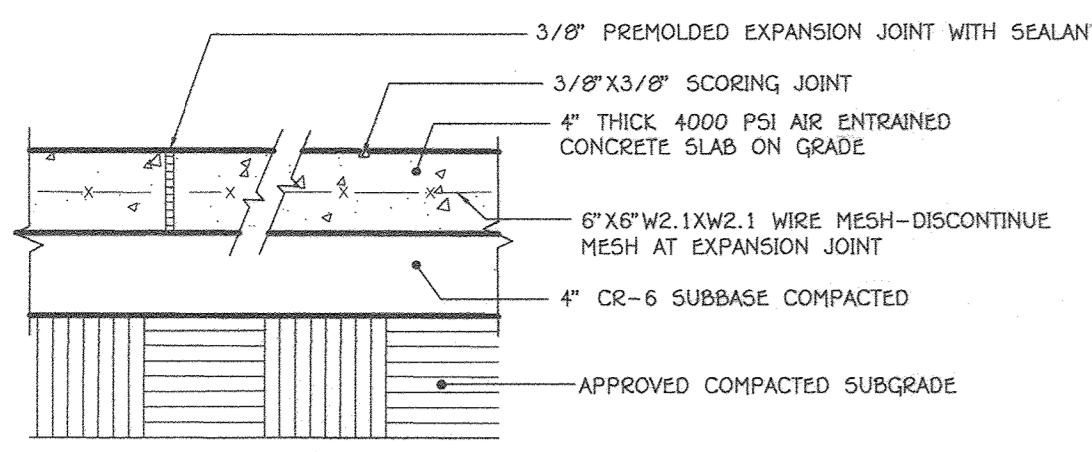
7/12/22	REVISED STORM DRAIN, S.W.M.F.#1 AND SHEET NUMBER
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	10-16-20 Date
Director - Department of Planning and Zoning	
<i>[Signature]</i>	10/2/20 Date
Chief, Division of Land Development	
<i>[Signature]</i>	10/2/20 Date
Chief, Development Engineering Division	

PREPARED FOR:  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
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PROJECT	SECTION/AREA				
ELEMENTARY SCHOOL	4/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E. 03	5580800				

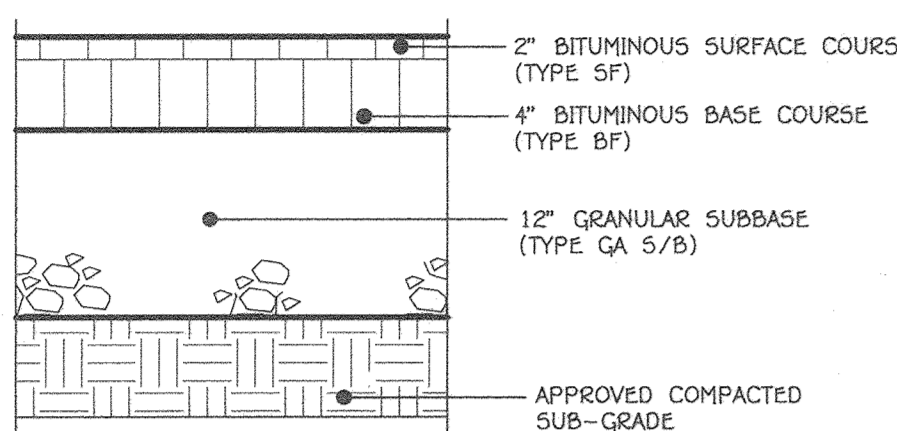
SOILS AND STORM DRAIN DRAINAGE AREA MAP  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL No.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 12 OF 49



NOTE: INSTALL EXPANSION JOINTS AT MAX. 15'-0" O.C. AND INSTALL SCORING JOINTS AT MAX. 5'-0" O.C.  
SLOPE ACROSS SIDEWALK SHALL BE MIN. 1/8" / FT.

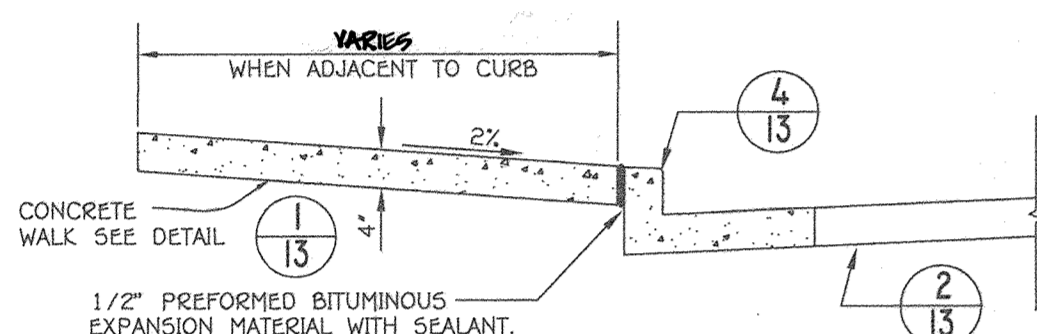
1 CONCRETE WALK DETAIL

NO SCALE



2 HEAVY DUTY ASPHALTIC PAVING DETAIL

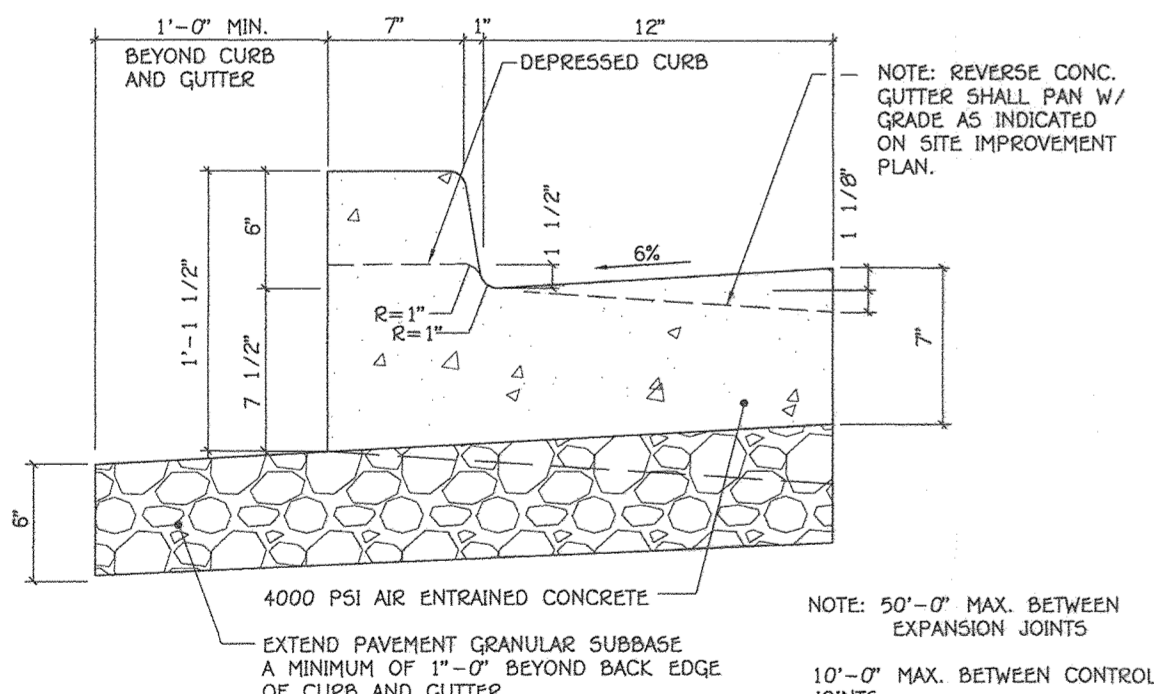
NO SCALE



- 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL WITH SEALANT.
- NOTES:
- SIDEWALK TO BE SCRIBED IN EQUALLY 5'-0" MAXIMUM SQUARES.
  - EXPANSION JOINTS ACROSS THE SIDEWALK NOT TO MORE THAN 15' APART.
  - 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL IN EXPANSION JOINTS TO BE KEPT 1/4" BELOW SURFACE OF SIDEWALK. FILL WITH SEALANT.
  - 4000 PSI AIR ENTRAINED CONCRETE SHALL BE USED.
  - WHEN SIDEWALK ABUTS CURB, WALK SHALL BE 1/4" ABOVE CURB WITH 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL BETWEEN SIDEWALK AND CURB.
  - 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 48 FEET. THE HEADERS SHALL BE PLACED AT EXPANSION JOINT LOCATIONS AND SHALL BE MONOLITHIC WITH THE SIDEWALK.
  - SIDEWALK WIDTH ADJACENT TO CURB SHALL BE 5'-0" MIN.
  - SIDEWALK LOCATED 2' OR MORE FROM CURB MAY BE 4'-0" IN WIDTH WITH A 5' X 5' PAVED SECTION PLACED 200' APART.
  - PROVIDE 1/2" EXPANSION JOINT WHERE WALKS ABOUT EXISTING CONCRETE SURFACES TO REMAIN.

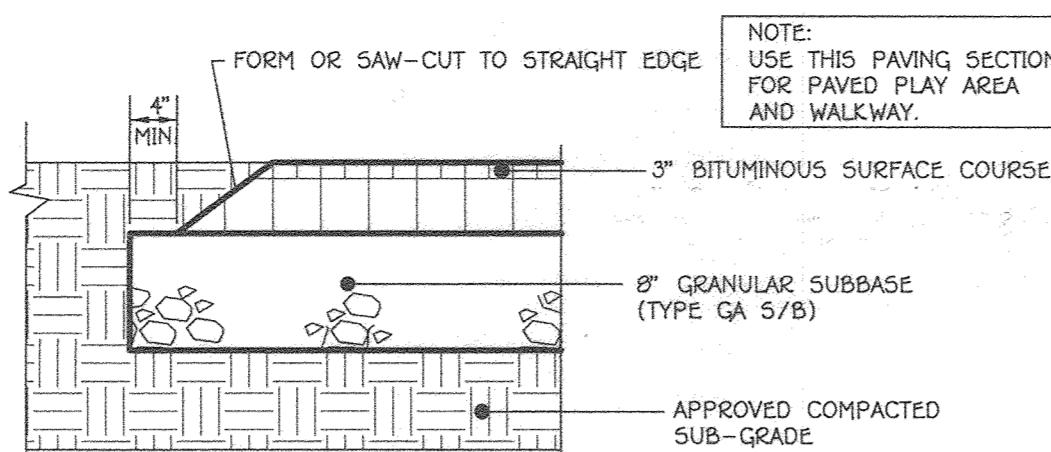
3 CONCRETE SIDEWALK ADJACENT TO CURB DETAIL

HOWARD COUNTY STANDARD DETAIL R-3.05  
NO SCALE



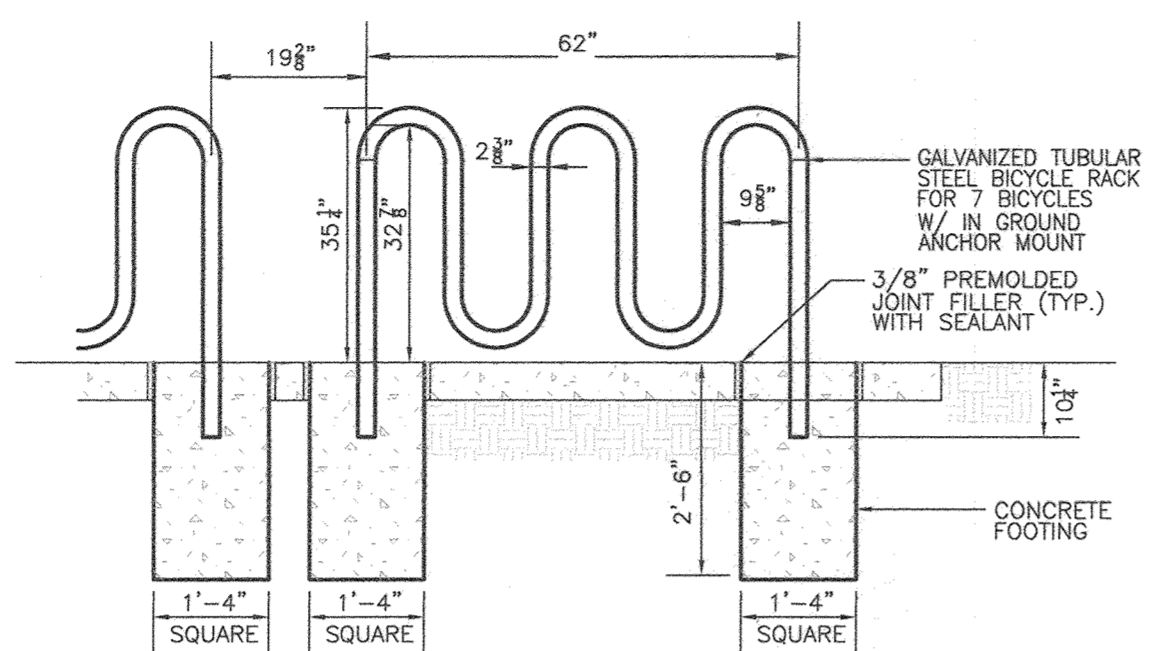
4 STANDARD 6" COMB. CONC. CURB AND GUTTER

HOWARD COUNTY STANDARD DETAIL R-9.01  
NO SCALE



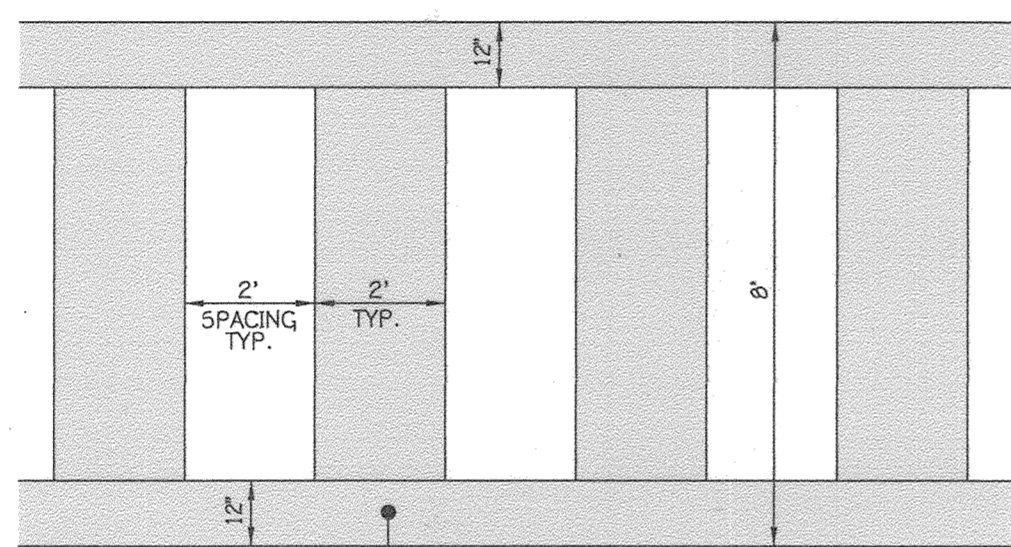
5 PAVED PLAY AREA AND WALKWAY ASPHALTIC PAVING DETAIL

NO SCALE



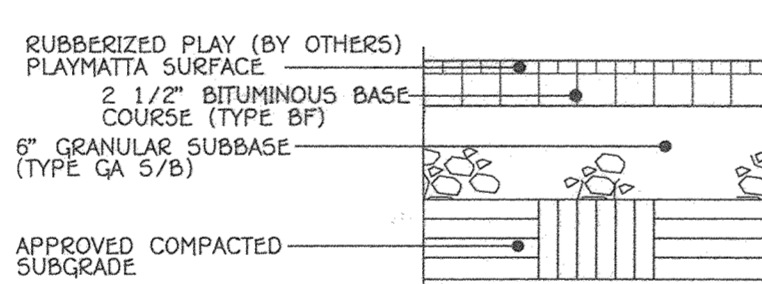
6 BICYCLE RACK DETAIL

NO SCALE



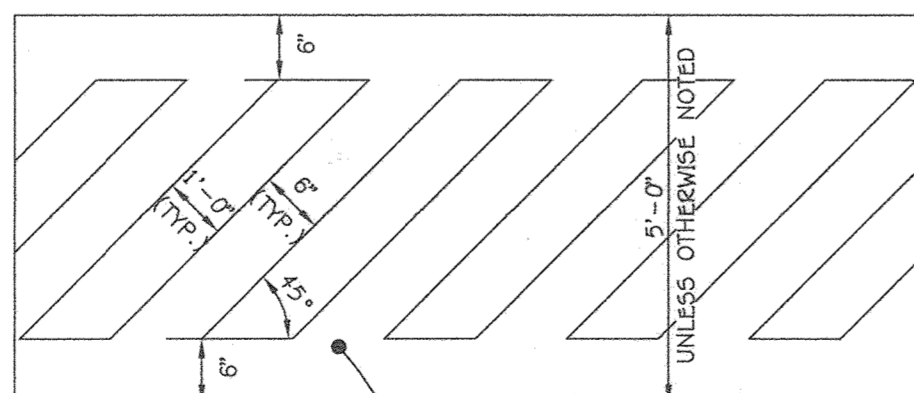
7 PEDESTRIAN CROSSWALK DETAIL

HOWARD COUNTY STANDARD DETAIL T-7.03  
NO SCALE



8 PLAYGROUND PROTECTIVE PLAY SURFACE DETAIL

NO SCALE



9 CROSSWALK DETAIL

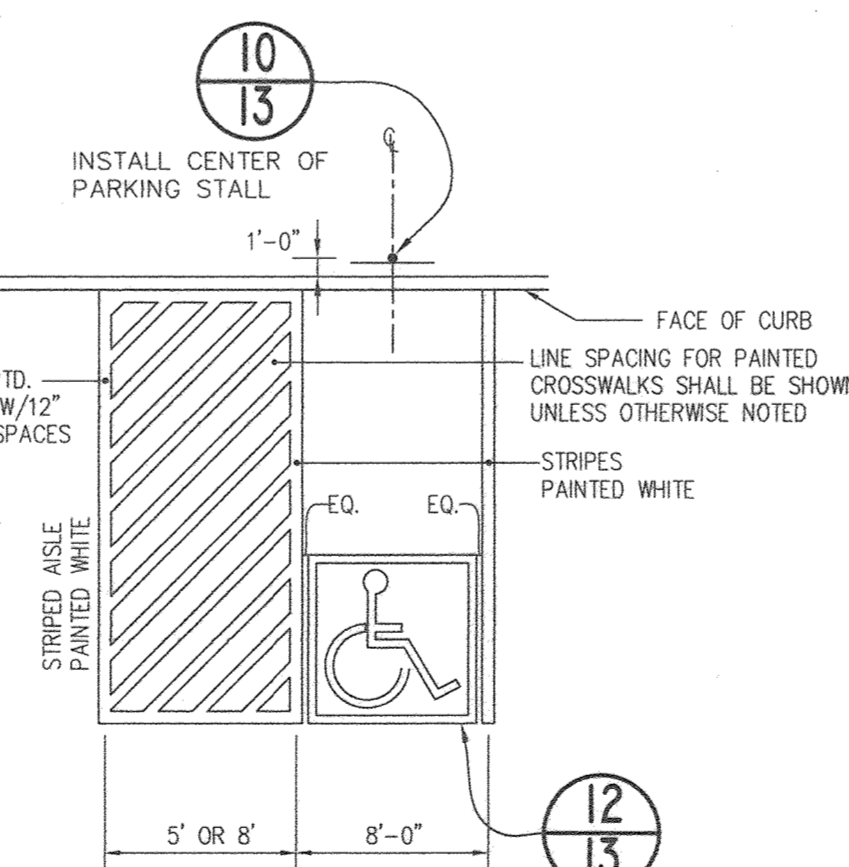
NO SCALE



- GENERAL NOTES:
- SIGNS SHALL MEET DESIGN STANDARDS OF THE FEDERAL HIGHWAY ADMINISTRATION AND CONFORM TO THE STATE OF MARYLAND STANDARD HIGHWAY SIGN BOOKLET DETAIL K7-6.
  - ONE SIGN IS REQUIRED PER SPACE PLACED AS SHOWN ON SITE IMPROVEMENT PLAN.
  - 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.
  - SIGN SHALL BE ATTACHED TO FLANGED SIDE OF POST. POST SHALL EXTEND INTO GROUND 2'-6" MIN.
  - COLORS: LEGEND AND BORDER-GREEN SYMBOL-WHITE ON BLUE BACKGROUND BACKGROUND-WHITE
  - CONTRACTOR SHALL COORDINATE ARROW DIRECTION WITH LOCATION OF ADJACENT AISLE.
  - SPACES INDICATED ON SITE DEVELOPMENT PLANS AS "VAN ACCESSIBLE" SHALL BE SIGNED ACCORDINGLY.

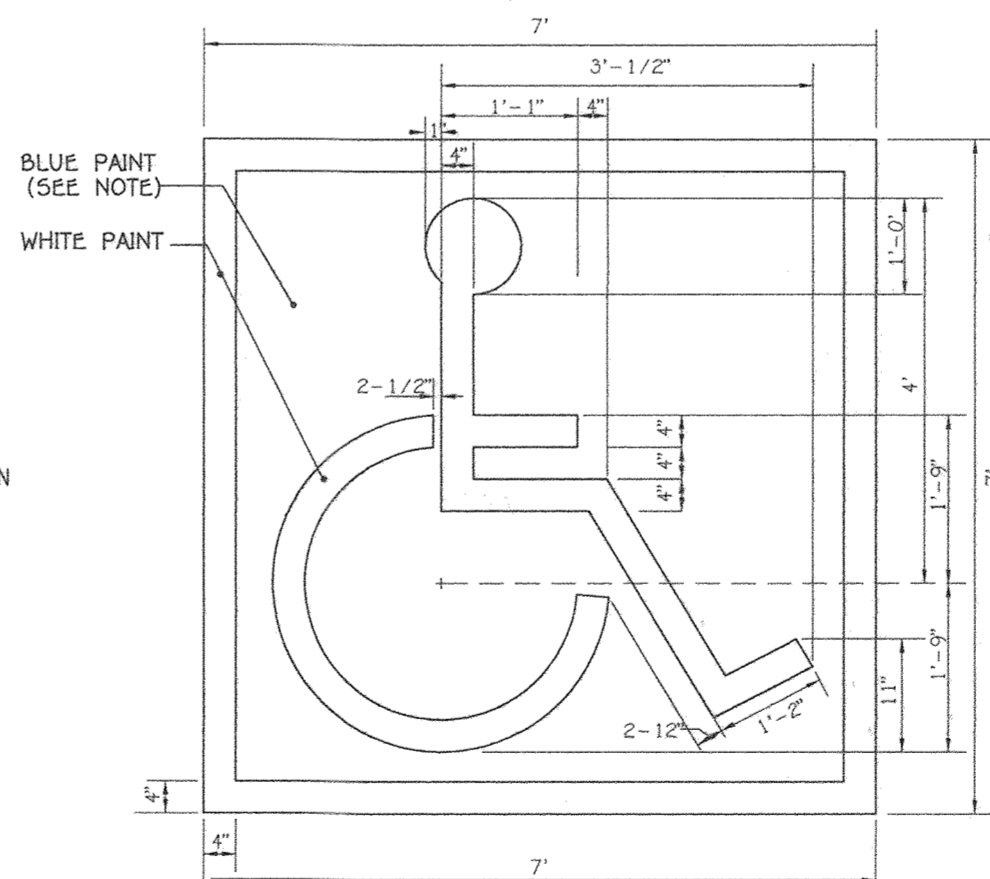
10 HANDICAP PARKING SIGN DETAIL

NOT TO SCALE



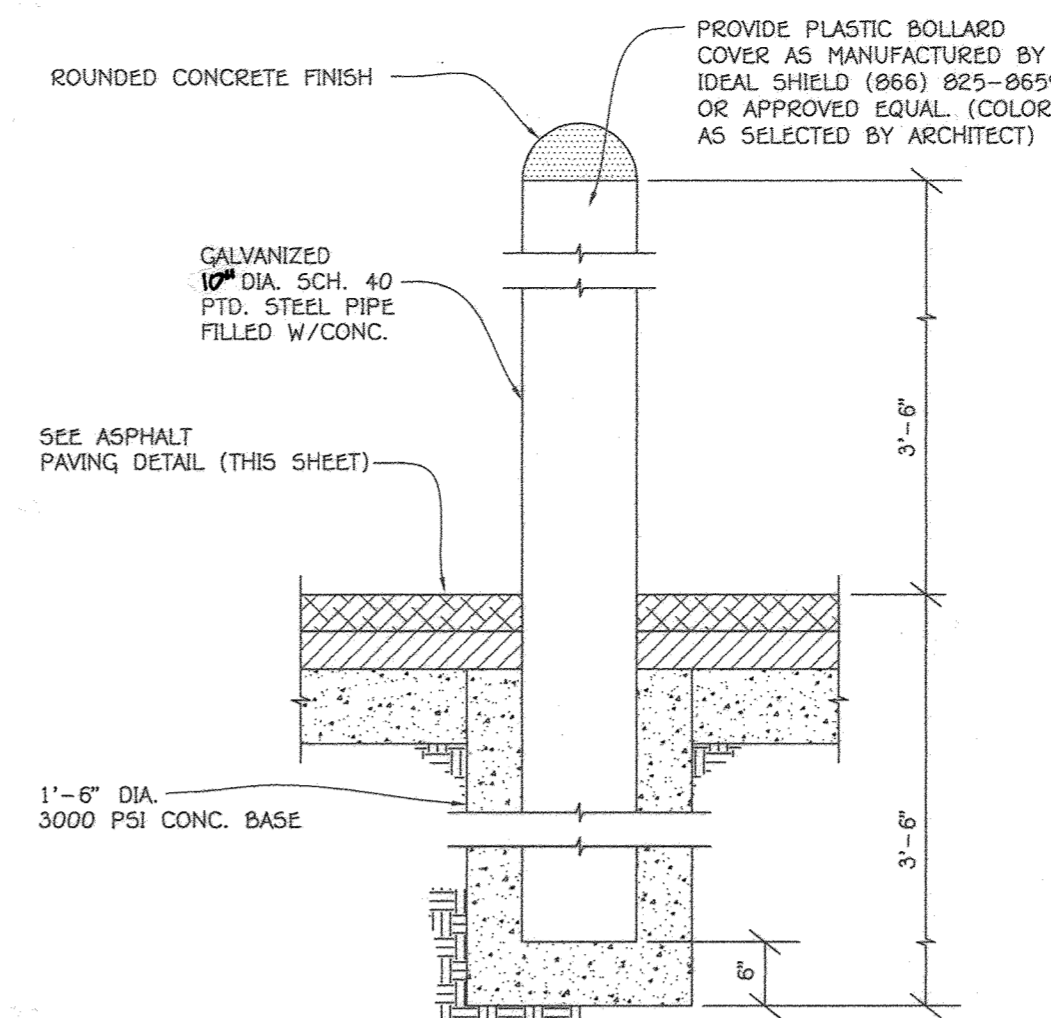
11 ACCESSIBLE SPACE LAYOUT

NO SCALE



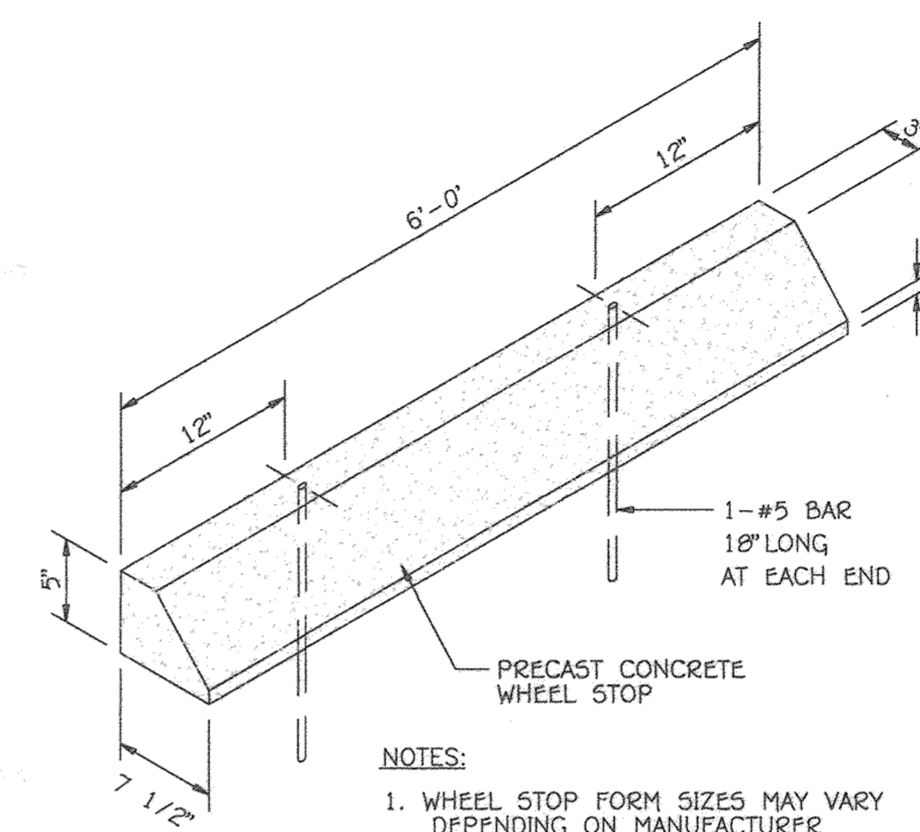
12 HANDICAP SPACE STENCIL LAYOUT

NO SCALE



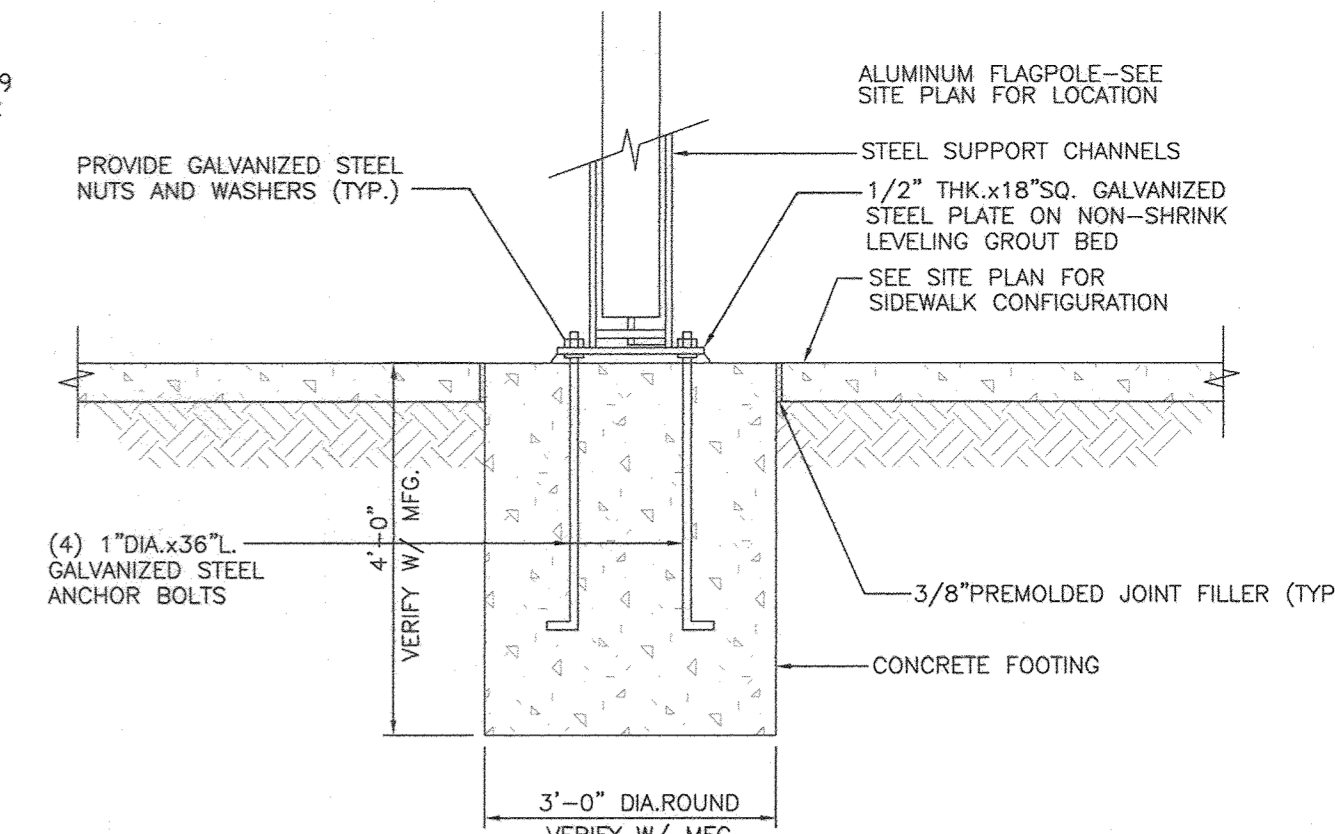
13 BOLLARD DETAIL

NO SCALE



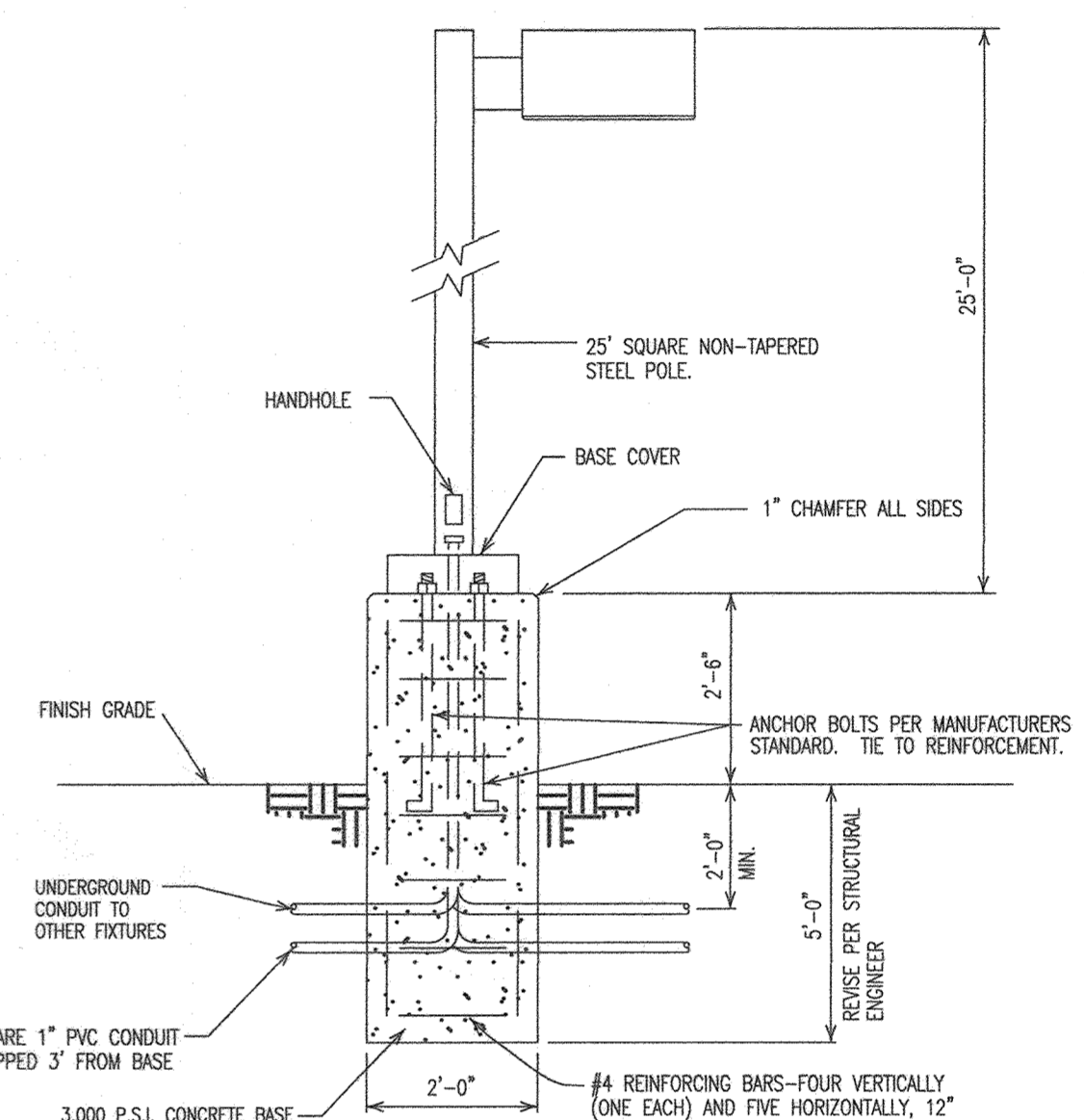
14 WHEEL STOP DETAIL

NO SCALE



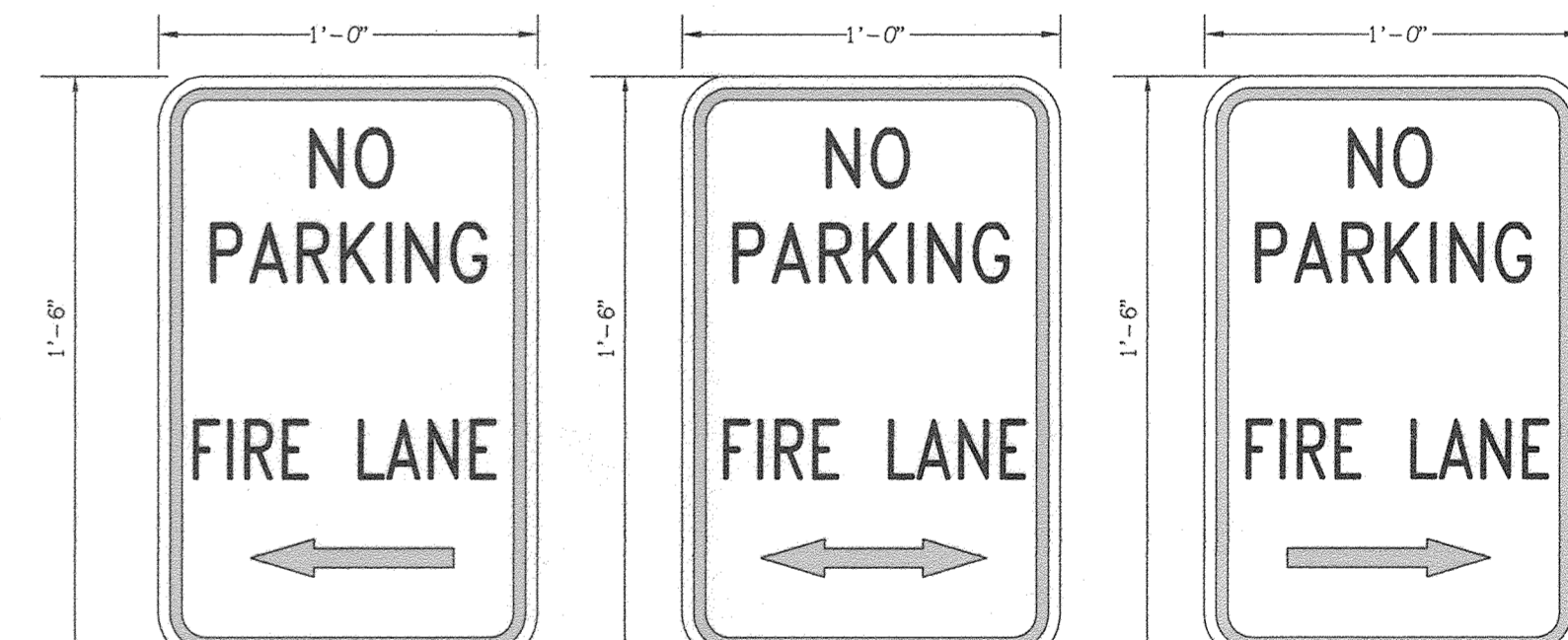
15 TILT FLAGPOLE DETAIL

NO SCALE



16 LIGHTING FIXTURE

SEE ELEC. DETAIL 8/E0.3 FOR INFORMATION  
NO SCALE



17 FIRE LANE SIGN DETAIL

NO SCALE

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

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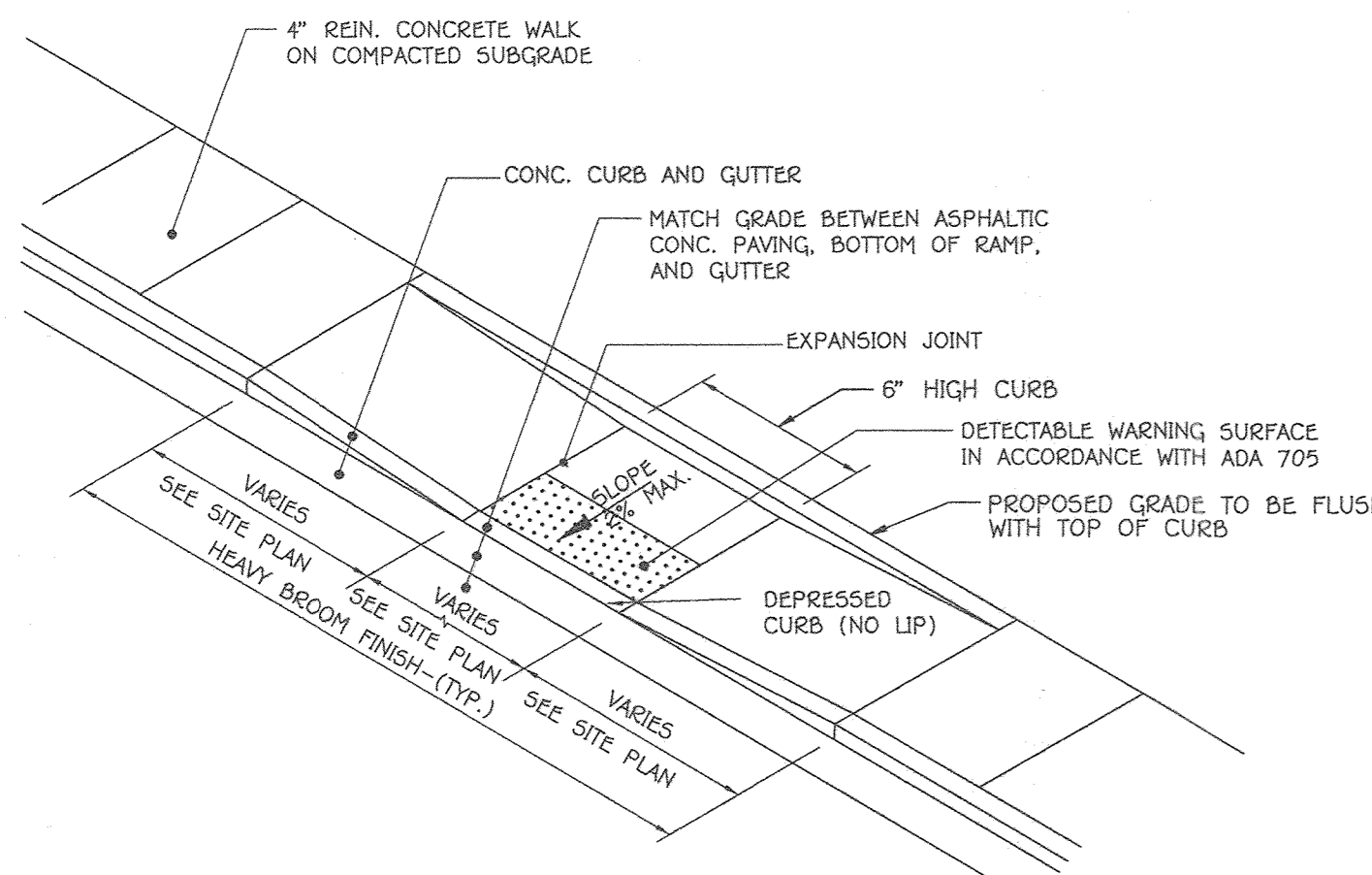
7/7/22	REVISED SHEET NUMBER	
9/9/24	REVISED 9/13, 9/13 & 12/13	
DATE	DESCRIPTION	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	Director, Department of Planning and Zoning	16-16-20 Date
<i>[Signature]</i>	Chief, Division of Land Development	collected Date
<i>[Signature]</i>	Chief, Development Engineering Division	10-2-20 Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
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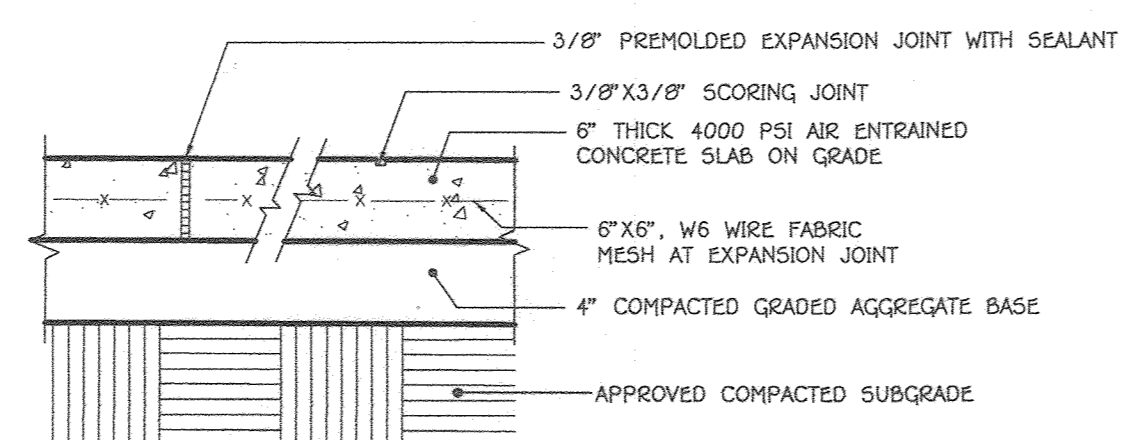


Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
ELEMENTARY SCHOOL	4/1
PLAT NOS.	BLOCK NO.
L 643/ F. 62	3
WATER CODE	SEWER CODE
E 03	5580800

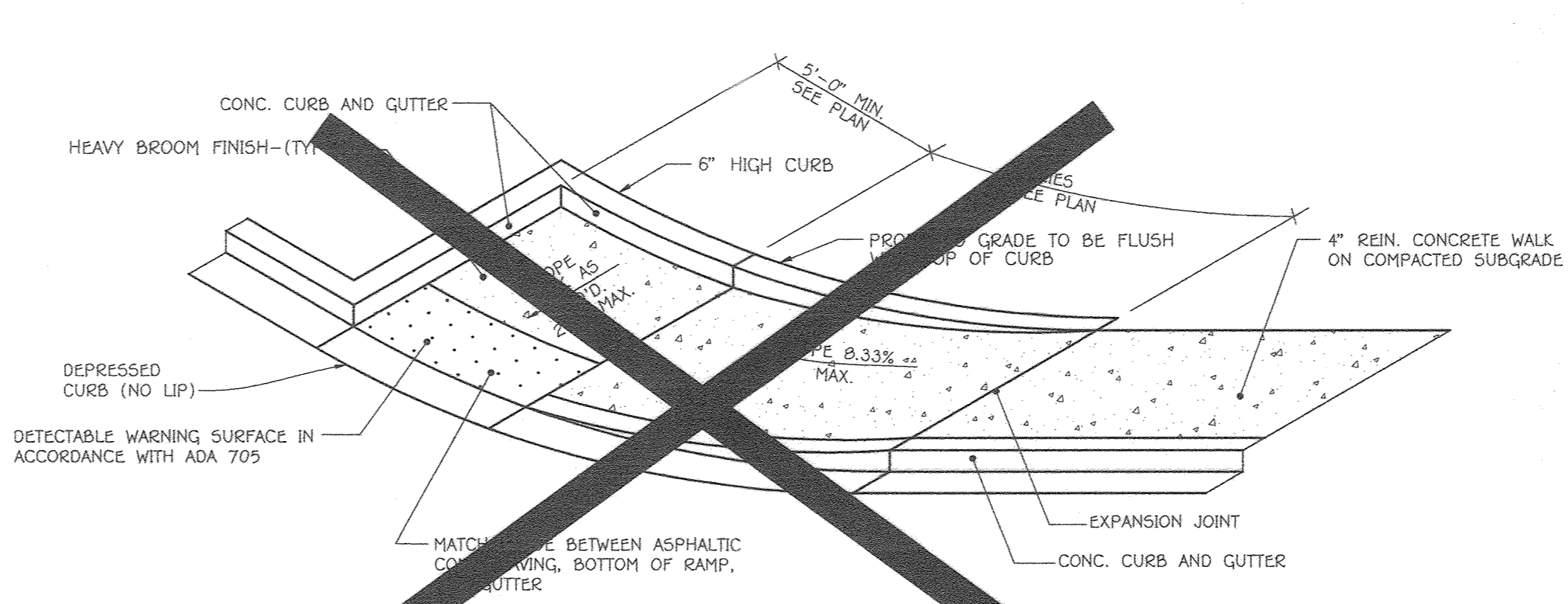
DETAIL SHEET	
VILLAGE OF OAKLAND MILLS SECTION 4 AREA 1 OPEN SPACE LOT 216 TALBOTT SPRINGS ELEMENTARY SCHOOL	
ZONED: NEW TOWN	PARCEL Nos.: 283
TAX MAP No.: 36	GRID No.: 3
SIXTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN	DATE: AUG. 26, 2020
SHEET 13 OF 43	



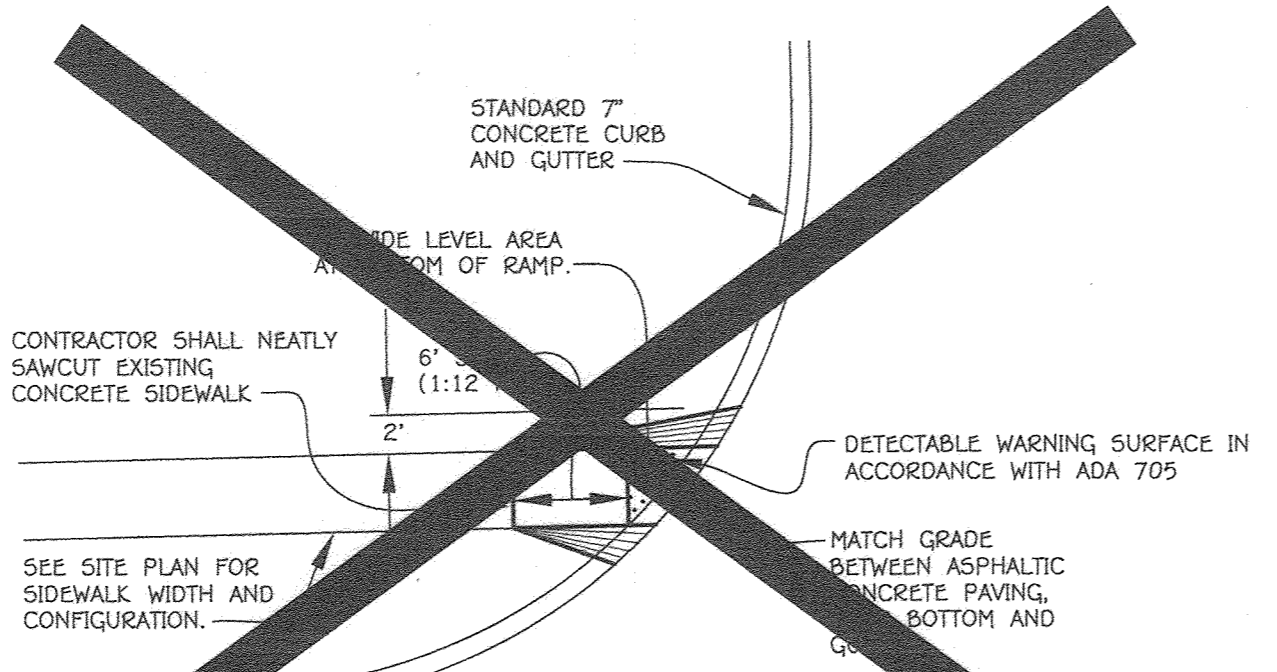
**1**  
14  
**HANDICAP CURB RAMP DETAIL**  
NO SCALE



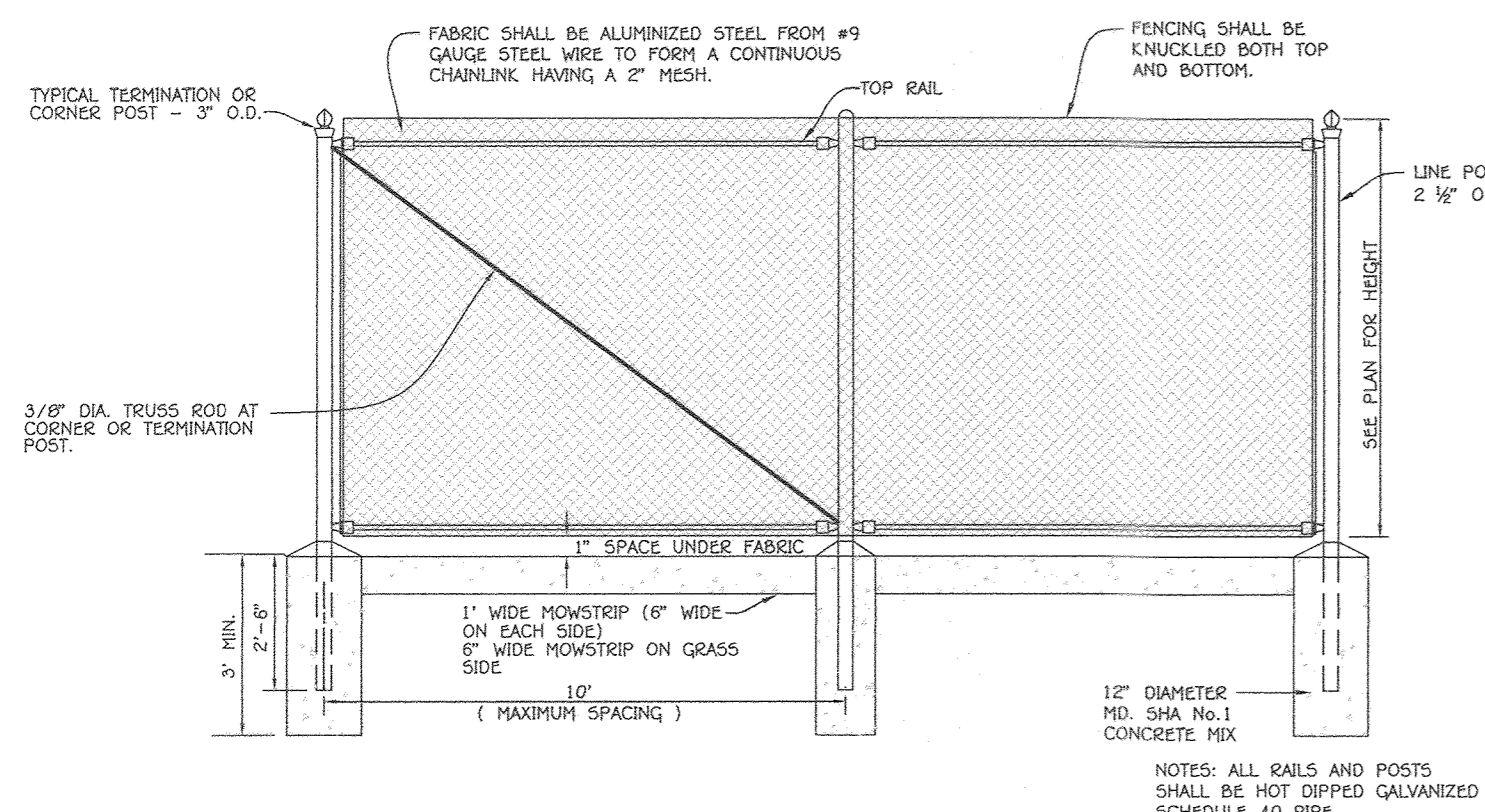
**4**  
14  
**CONCRETE PAVING DETAIL - HEAVY DUTY**  
NO SCALE



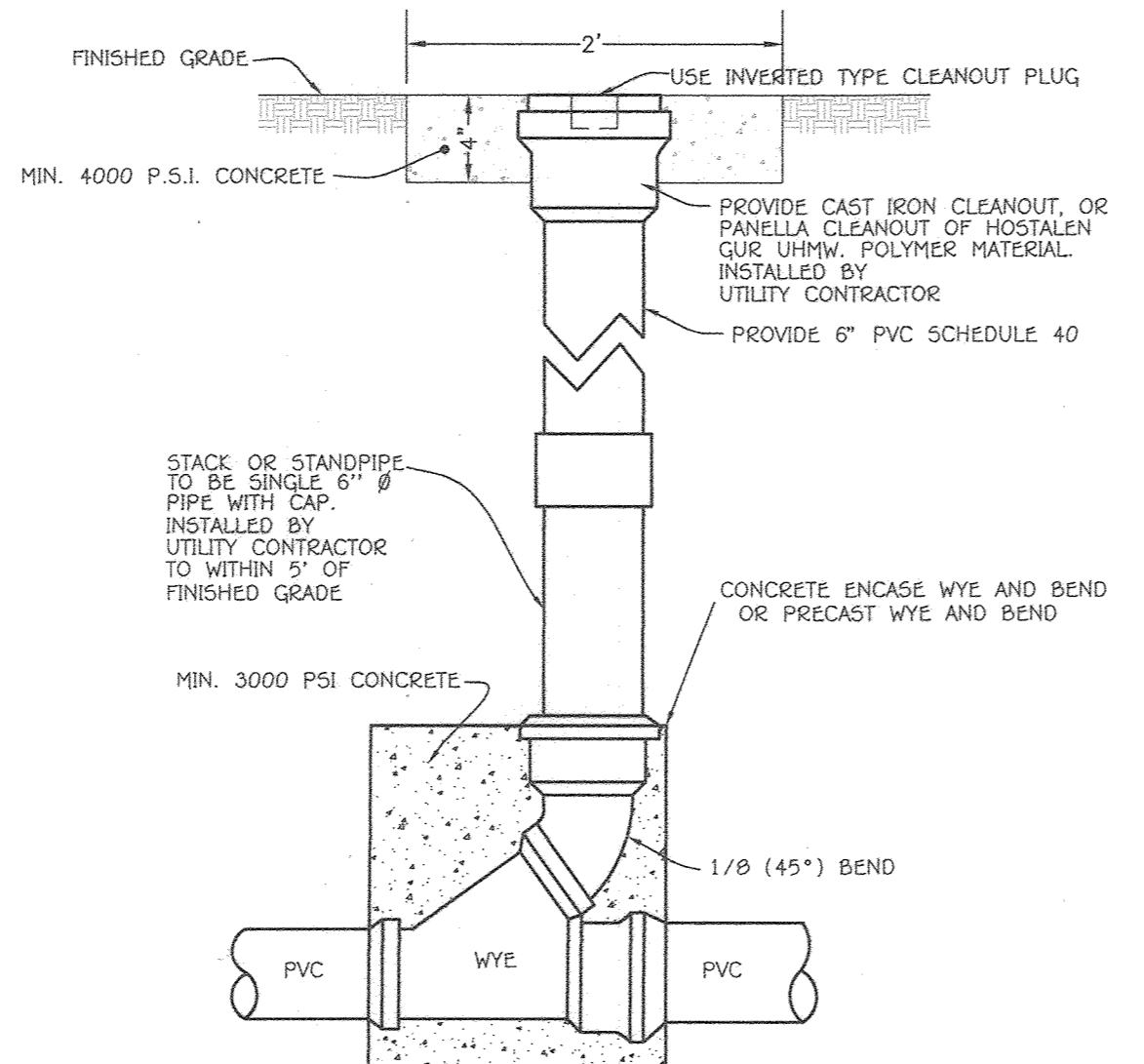
**8**  
14  
**NOT USED**  
NO SCALE



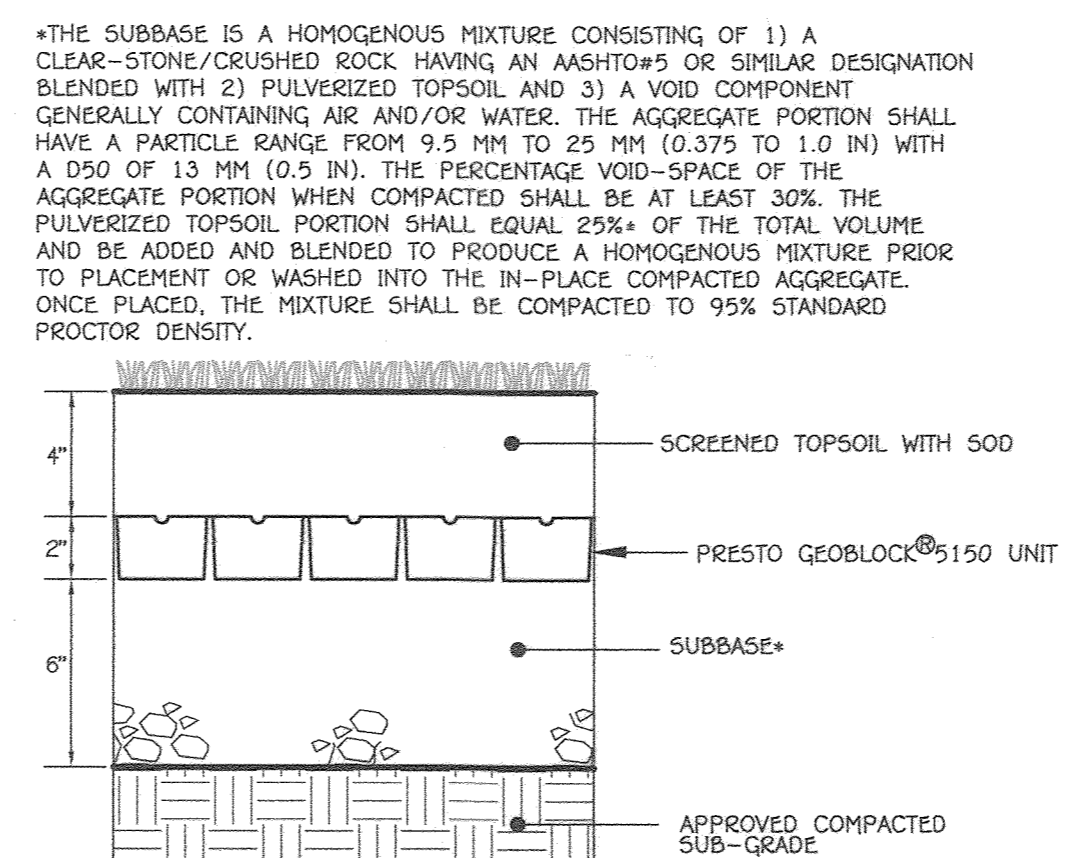
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14  
**NOT USED**  
NO SCALE



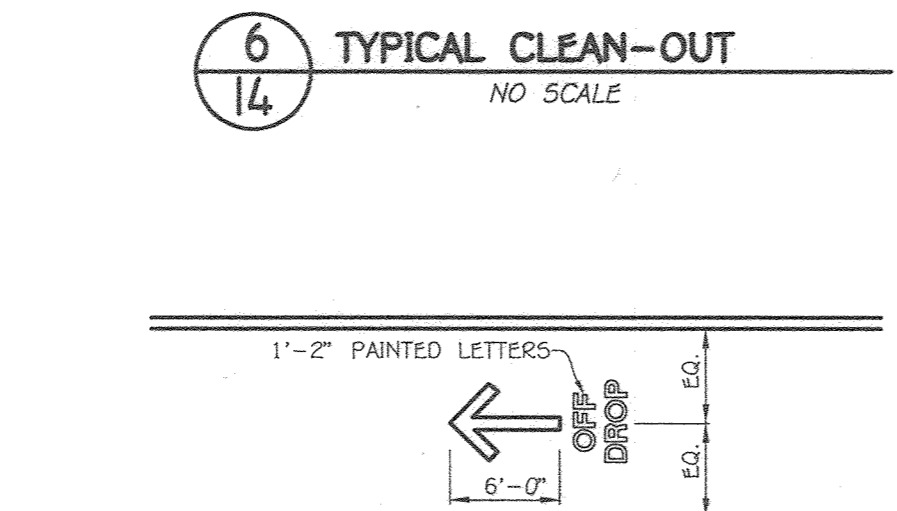
**2**  
14  
**CHAIN LINK FENCE DETAIL**  
NO SCALE



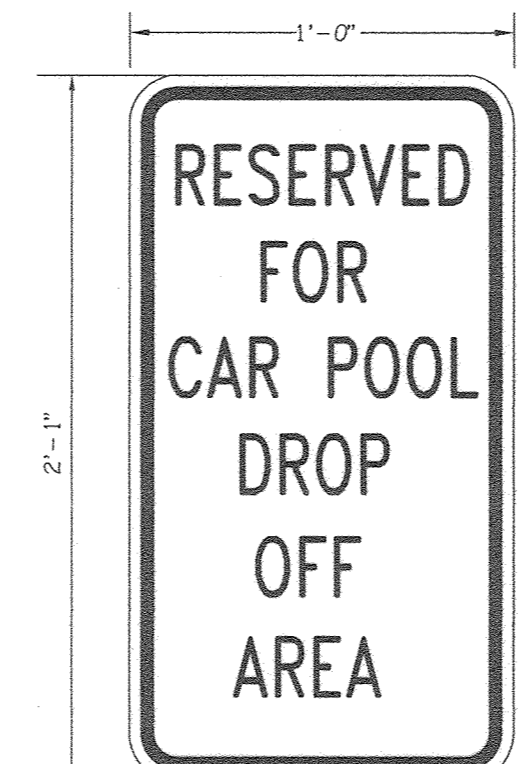
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14  
**TYPICAL CLEAN-OUT**  
NO SCALE



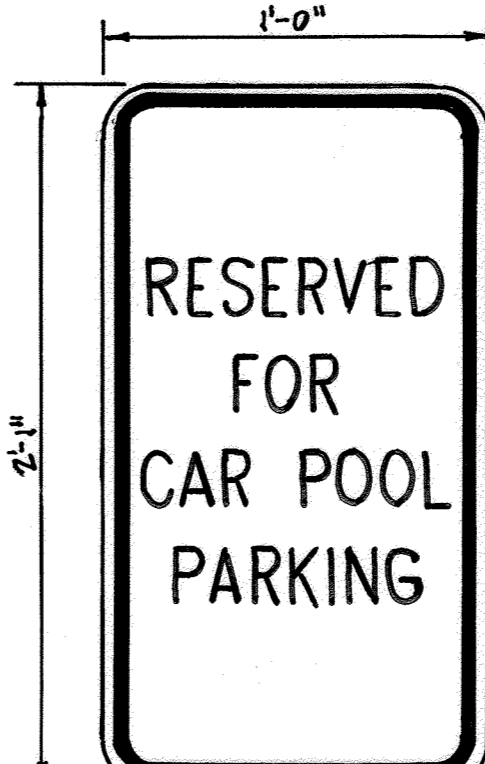
**9**  
14  
**GRASS PAVER SYSTEM  
PRESTO GEOSYSTEMS - GEOBLOCK® 5150**  
NO SCALE



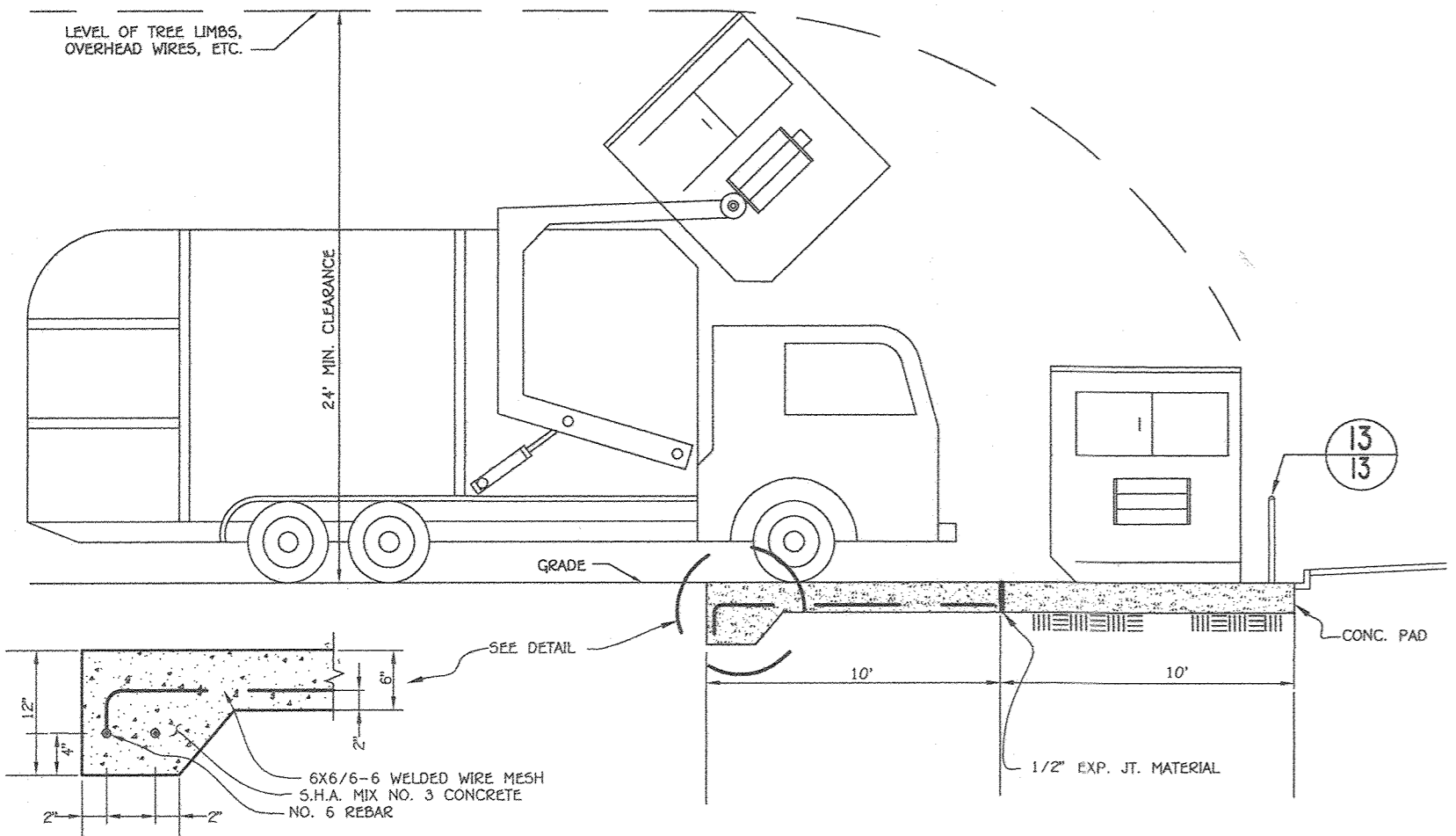
**7**  
14  
**STUDENT DROPOFF DETAIL**  
NO SCALE



**10**  
14  
**CAR POOL DROP OFF SIGN DETAIL**  
NOT TO SCALE



**11**  
14  
**CARPOOL SIGN DETAIL**  
NOT TO SCALE



**3**  
14  
**HEAVY DUTY CONCRETE SECTION  
SOLID WASTE SERVICE DETAIL**  
NOT TO SCALE  
(SEE HO. CO. VOLUME IV DESIGN MANUAL R-8.03)

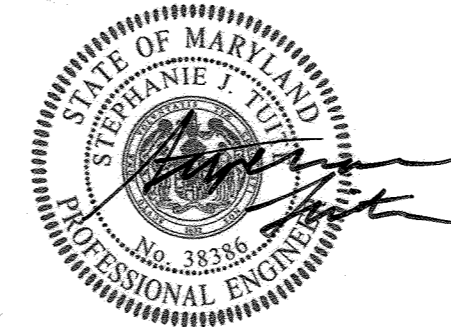
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
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STEPHANIE J. TUITE, R.L.A., P.E., LEED AP BC&D  
9/11/20  
DATE

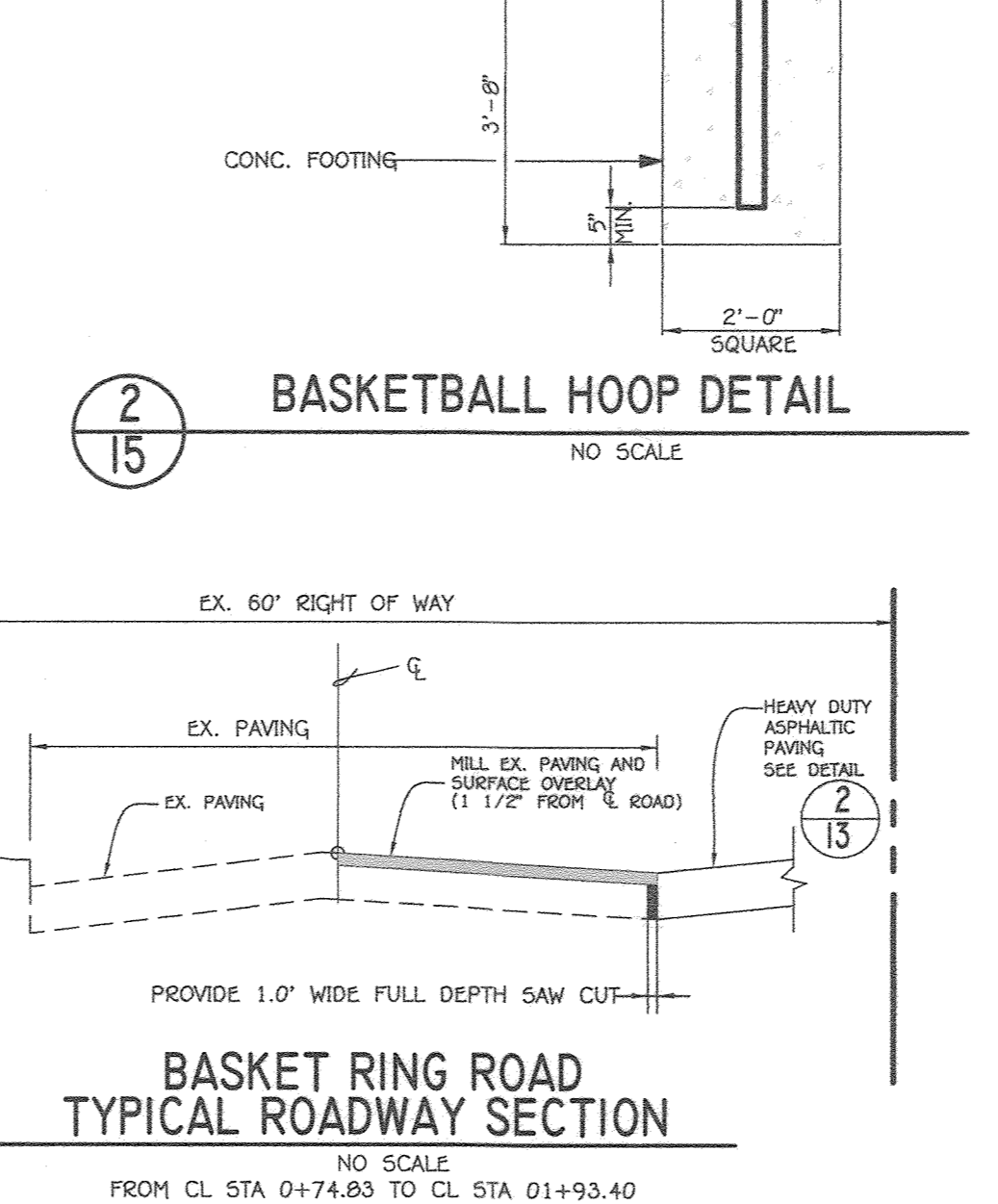
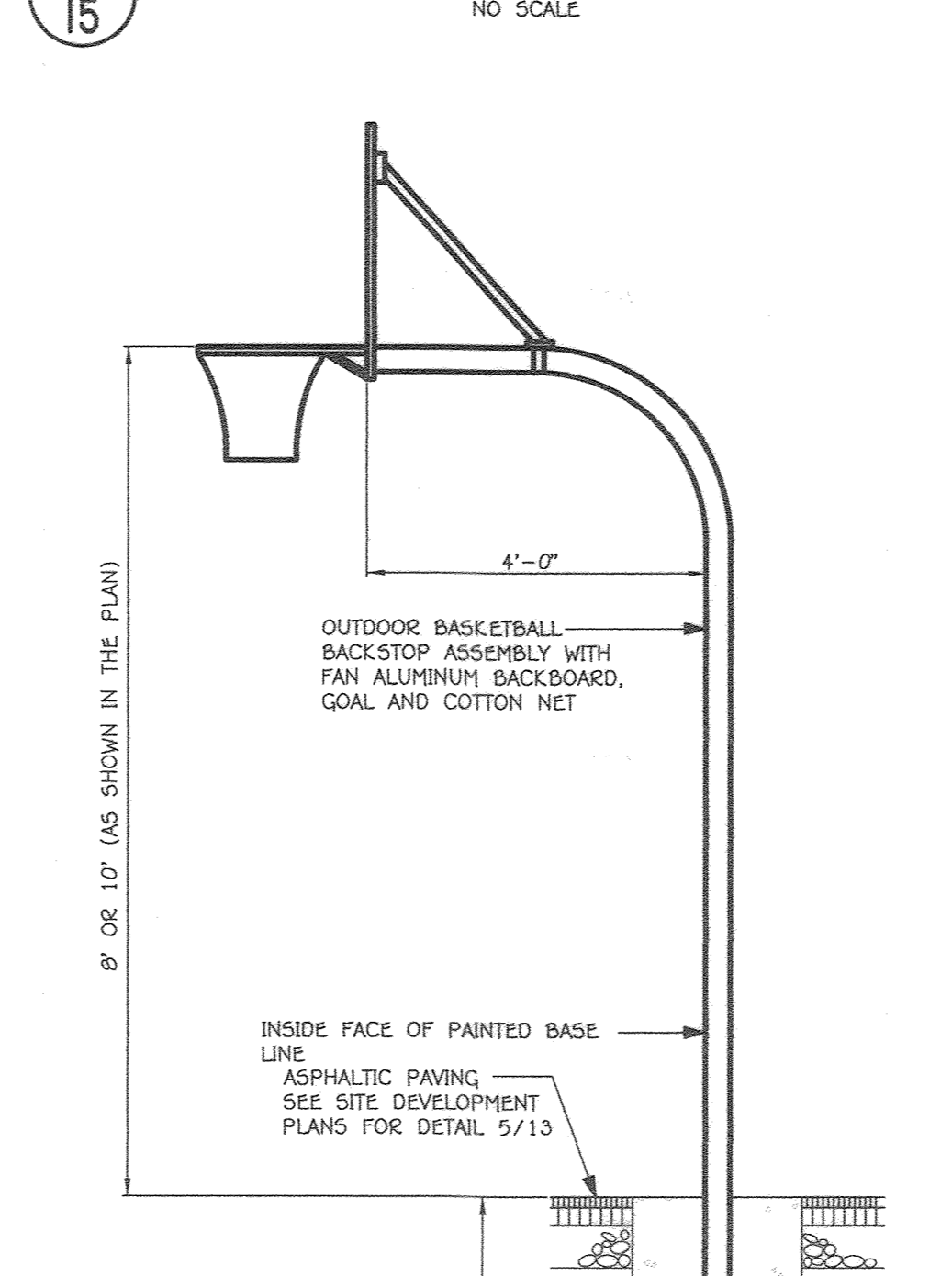
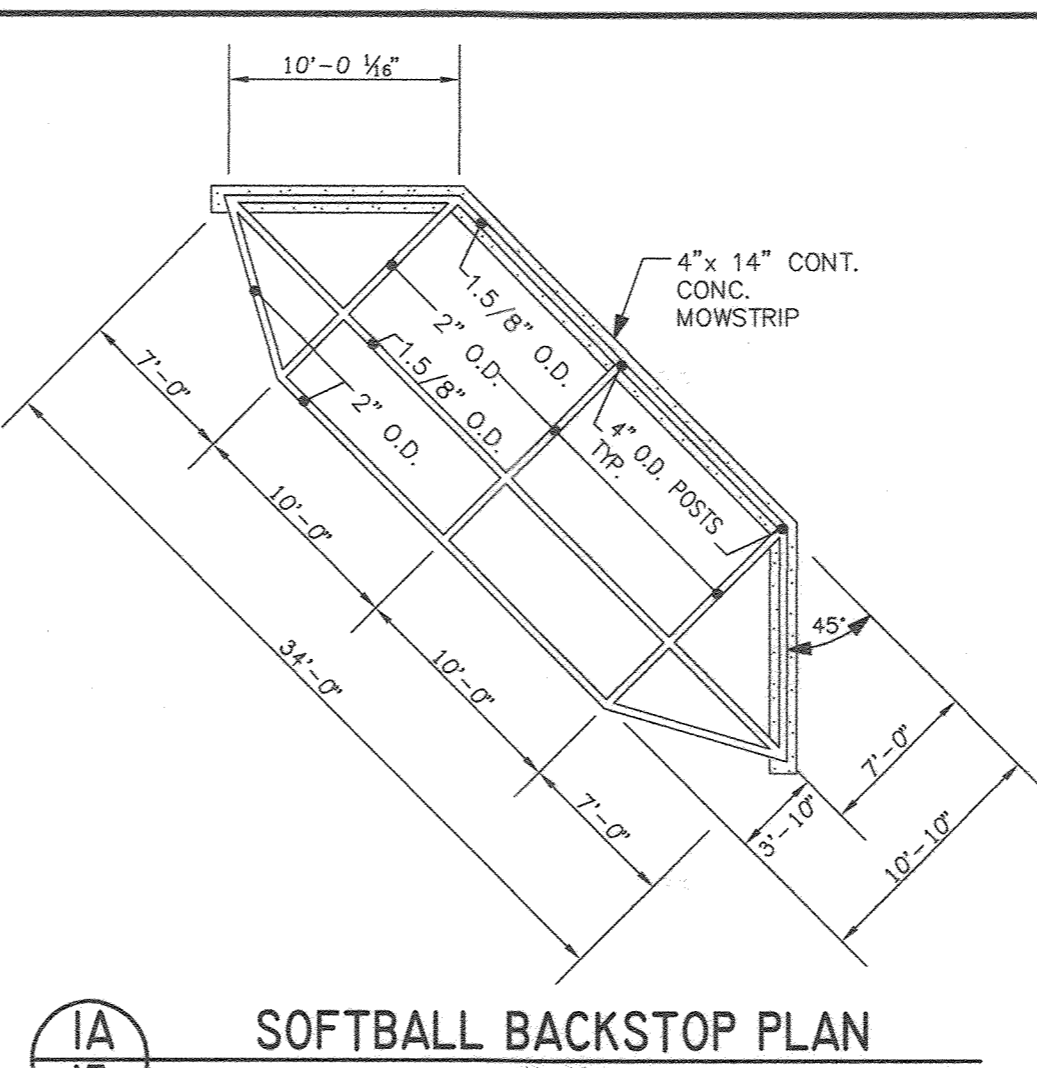
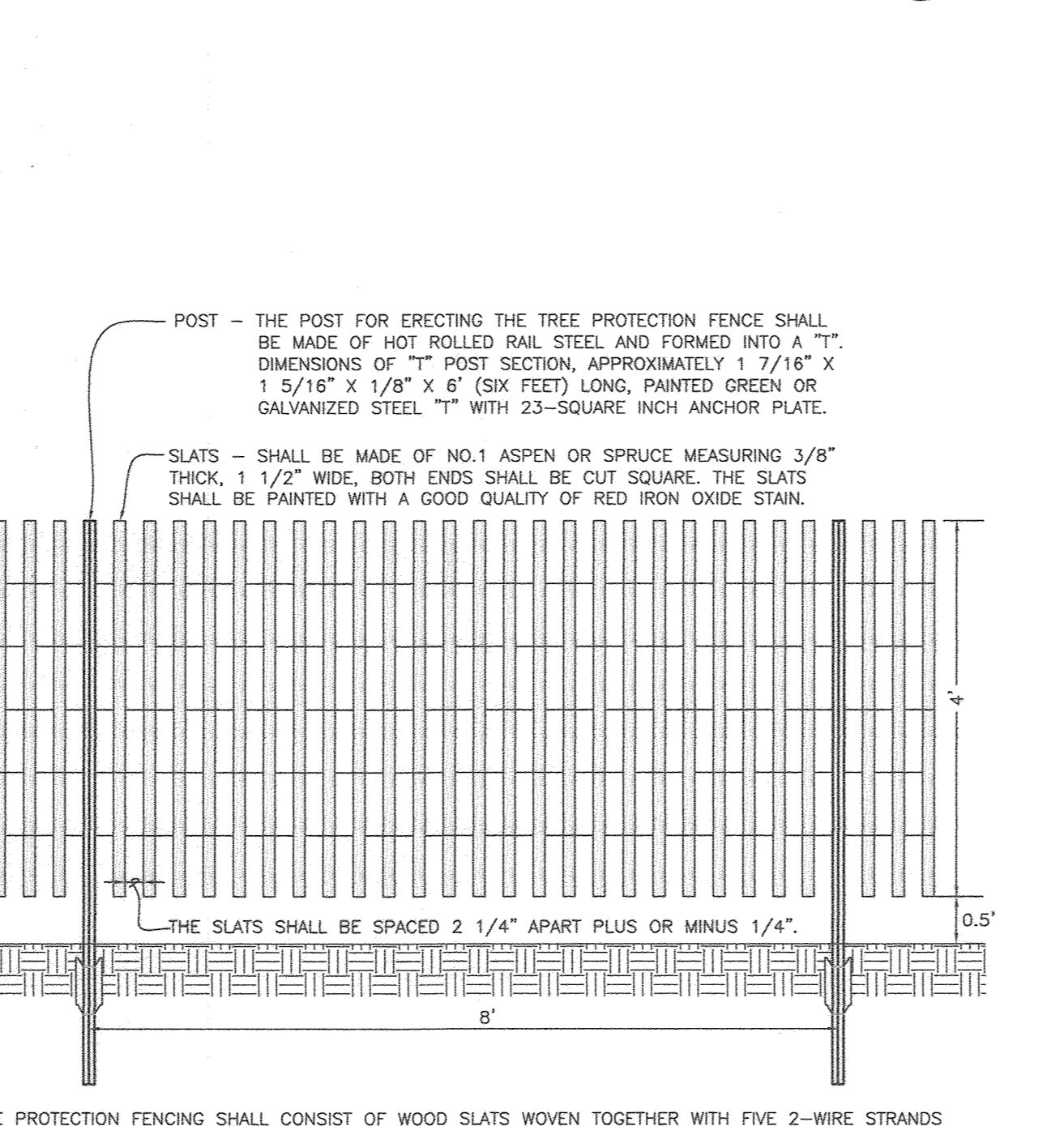
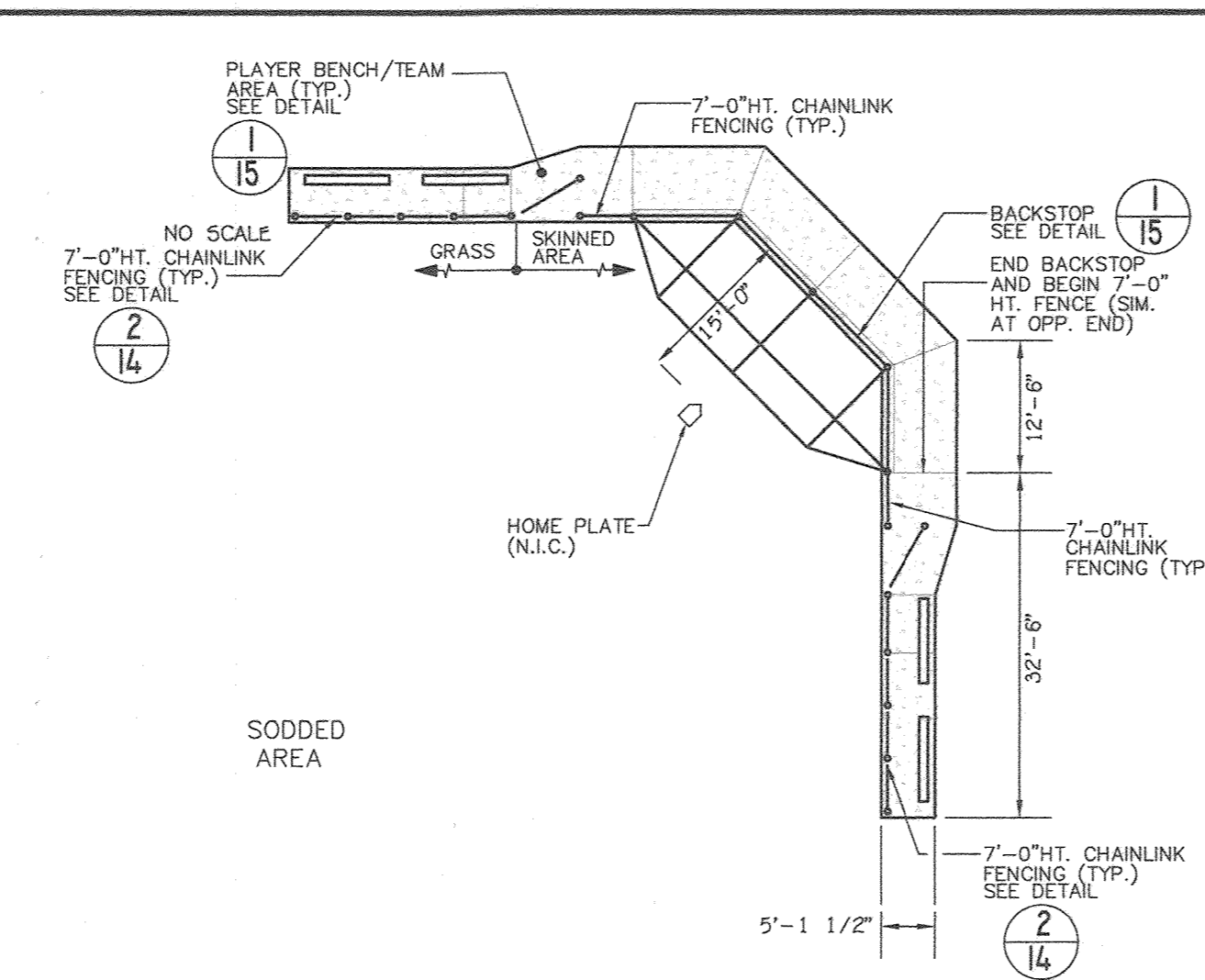
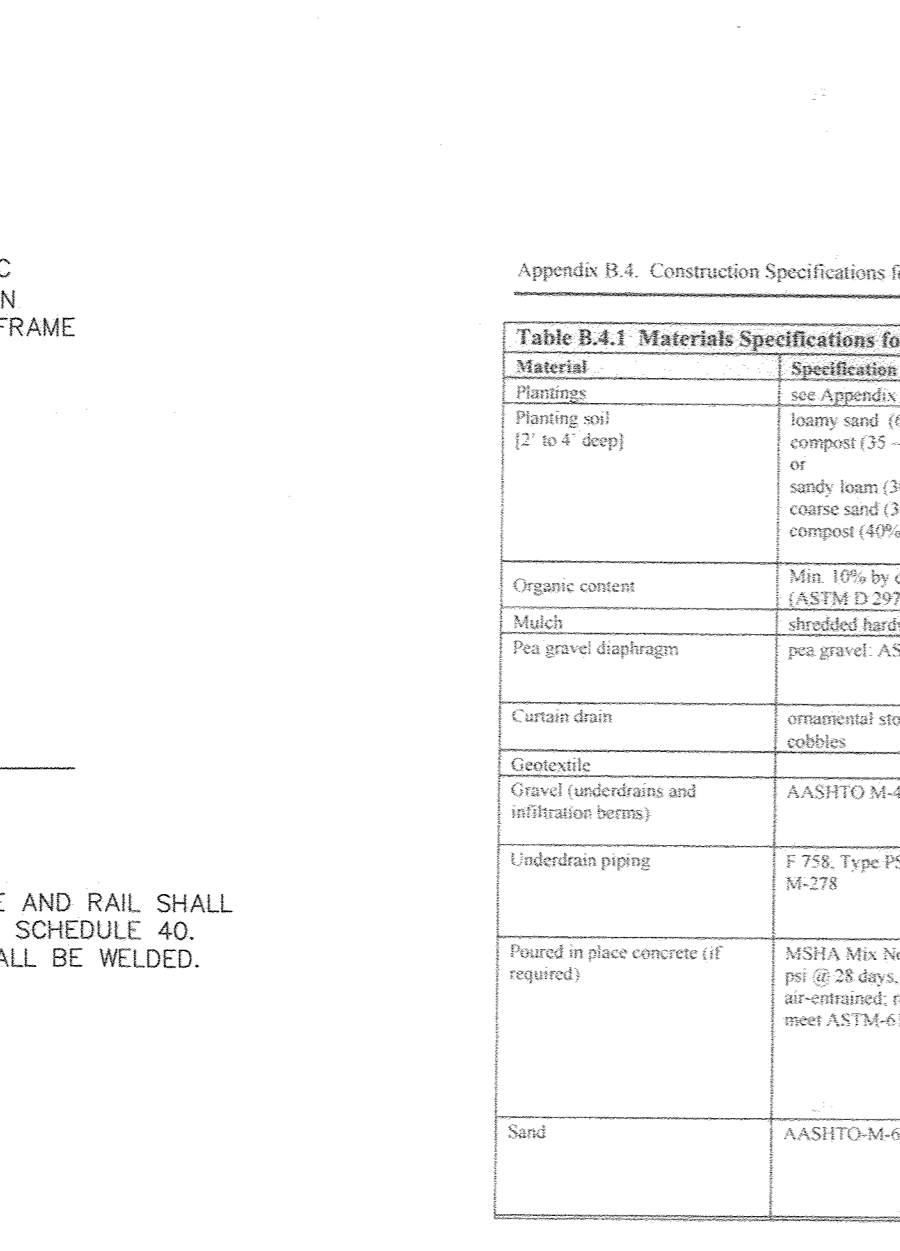
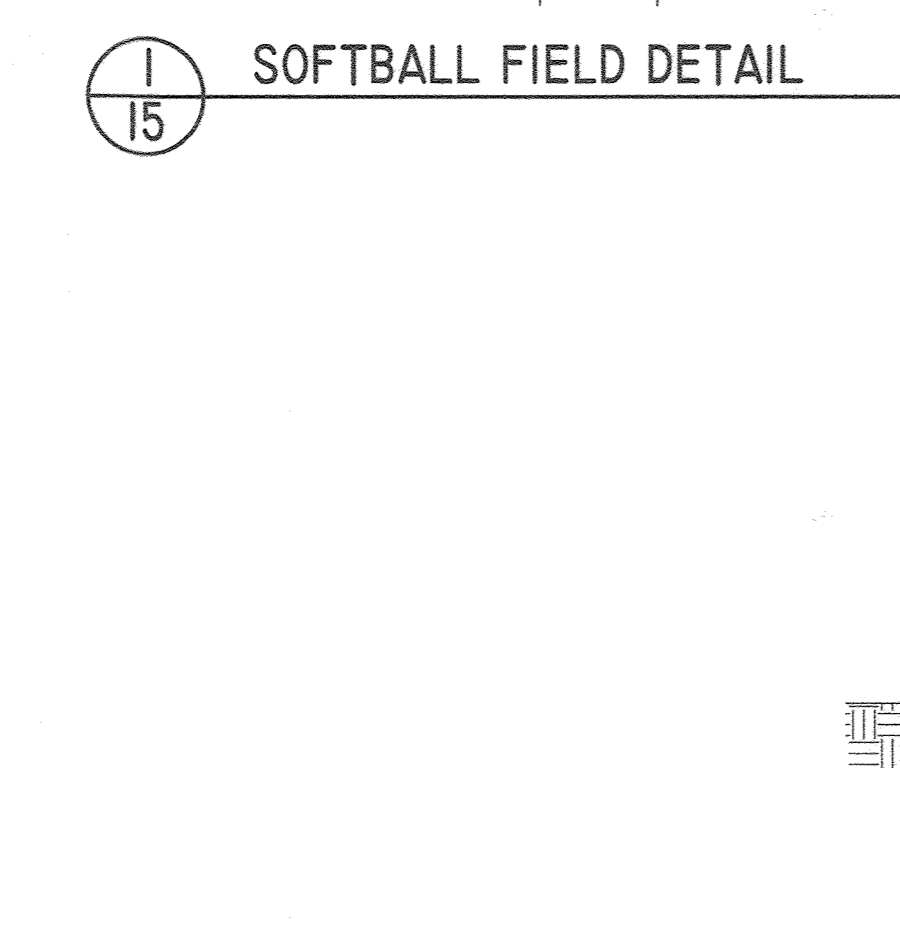
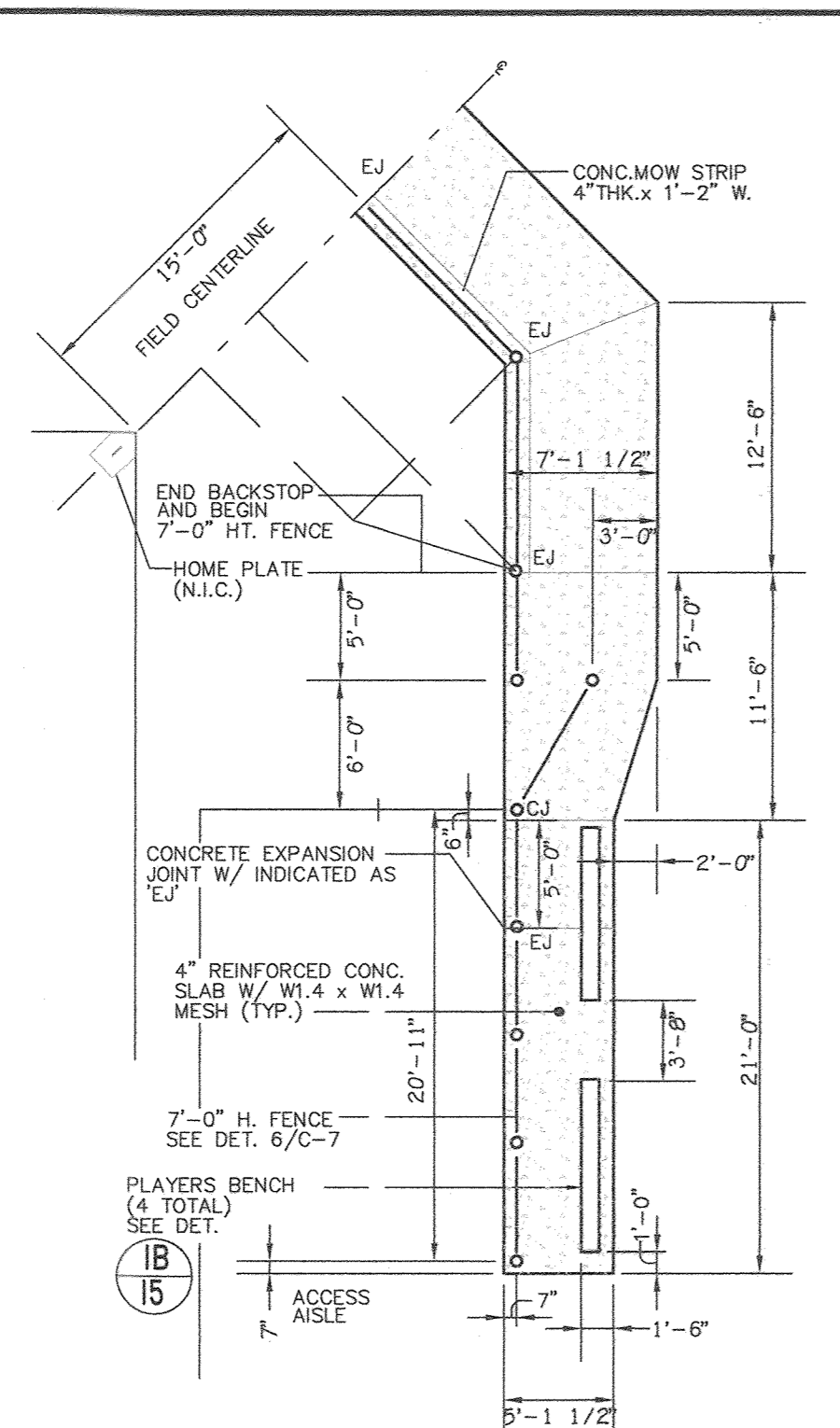
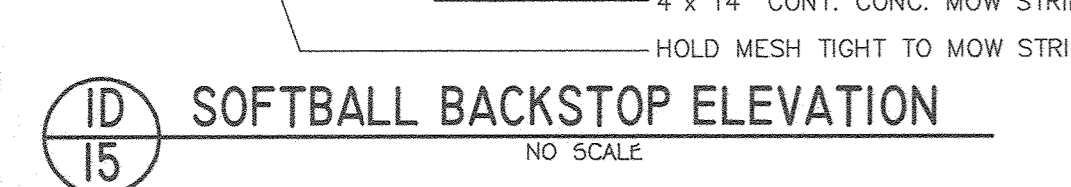
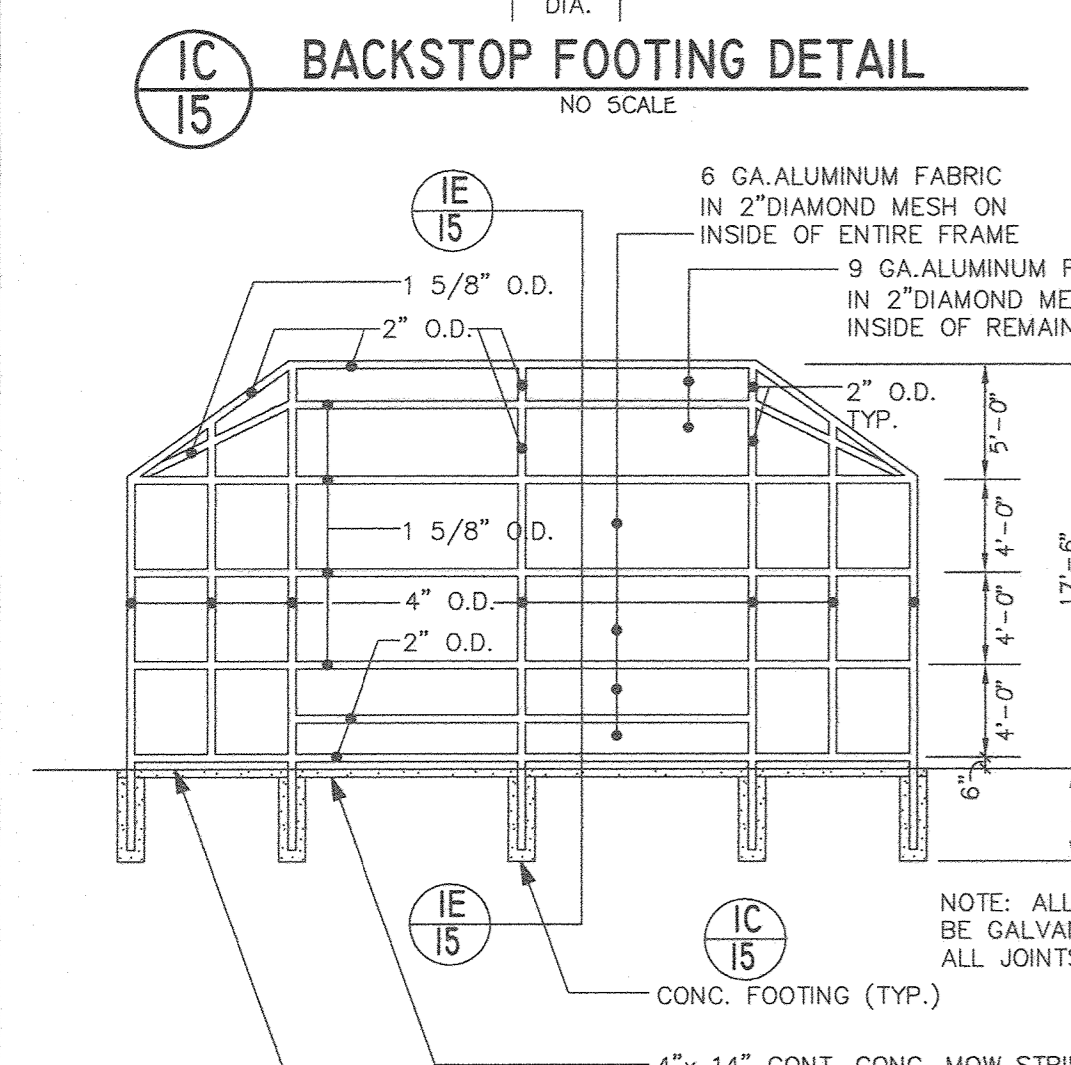
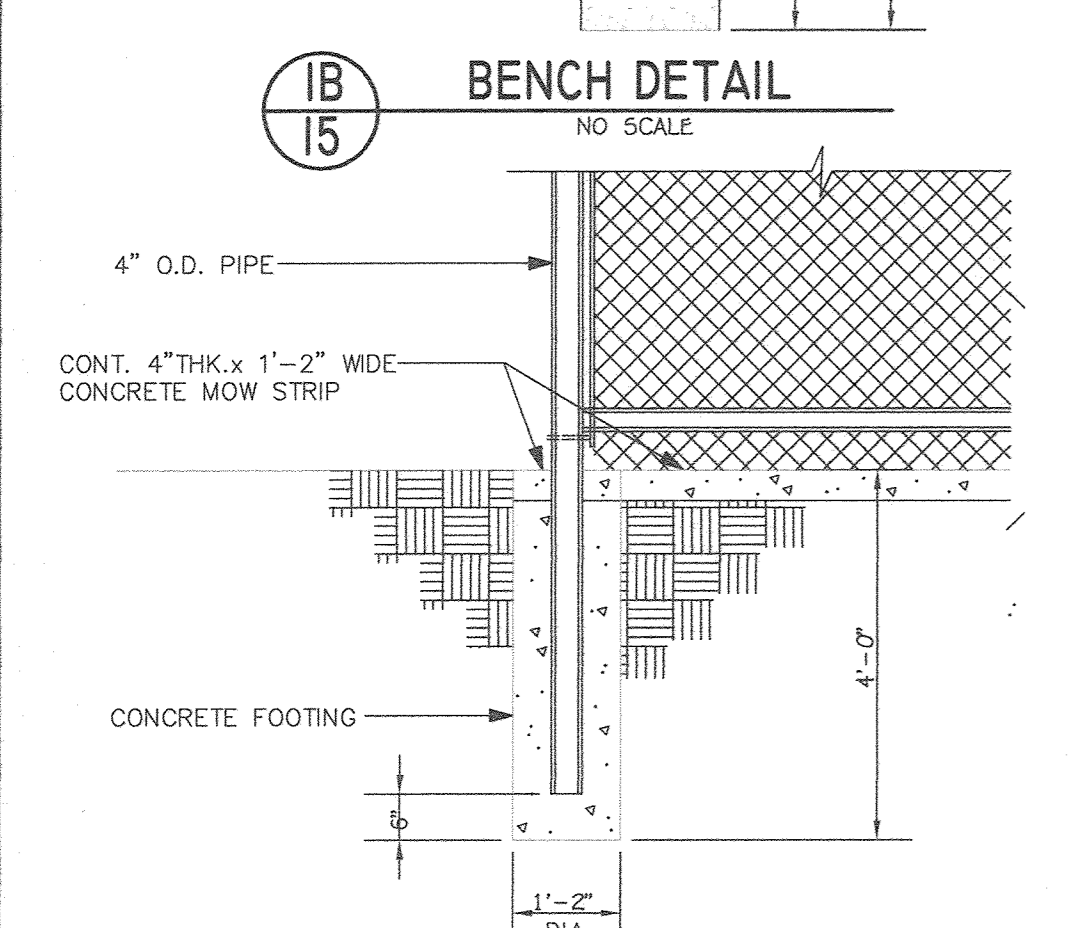
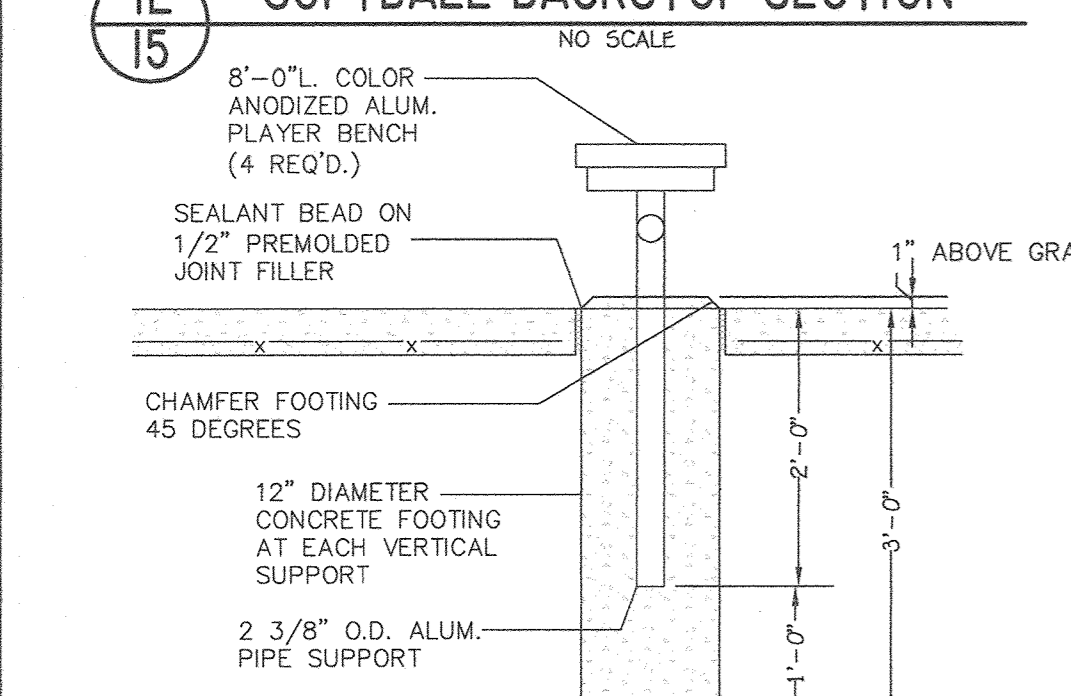
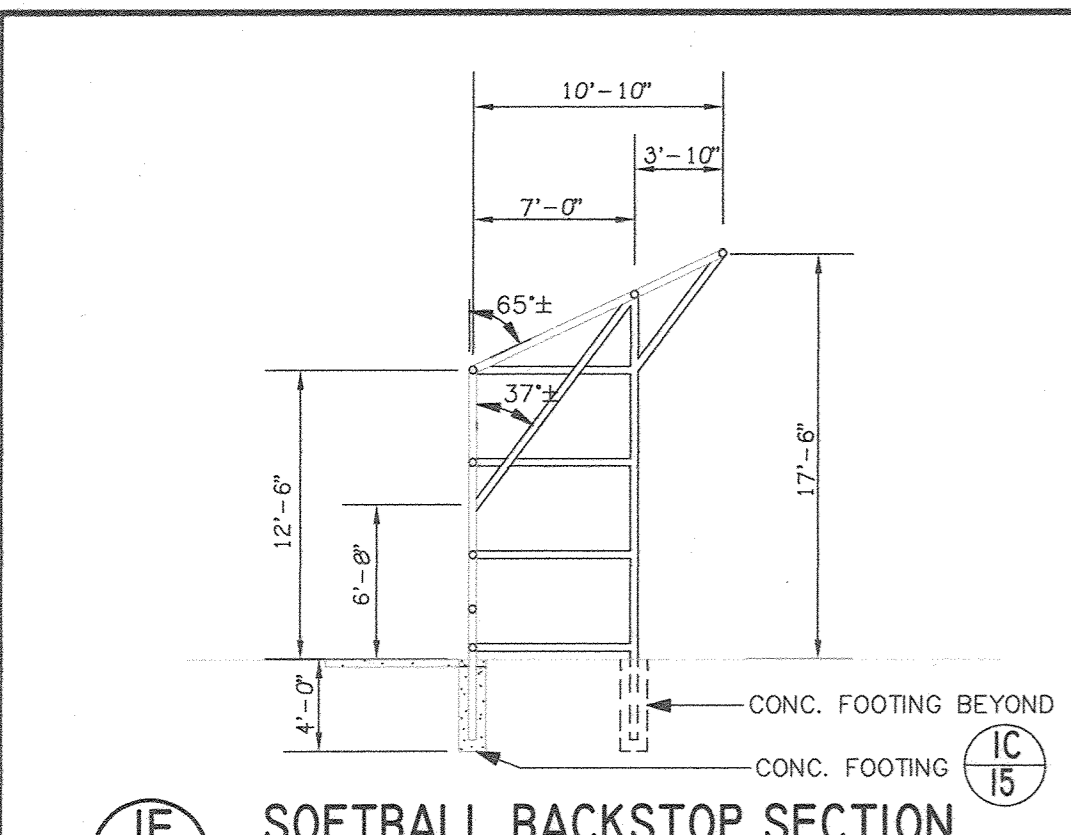
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7/7/22	REVISED SHEET NUMBER
9/9/24	REMOVED 9/14 & ADDED 11/14
DATE	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	10-16-20 Date
Director, Department of Planning and Zoning	
<i>[Signature]</i>	10/11/20 Date
Chief, Department of Land Development	
<i>[Signature]</i>	10-2-20 Date
Chief, Development Engineering Division	

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
ELEMENTARY SCHOOL	4/1
PLAT NOS.	BLOCK NO.
L. 643/ F. 62	3
ZONE	TAX MAP
NEW TOWN	36
ELEC. DIST.	CENSUS TR.
SIXTH	606603
WATER CODE	SEWER CODE
E. 03	5580800

**DETAIL SHEET**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 14 OF 49



Appendix B.4. Construction Specifications for Environmental Site Design Practices

Material	Specification	Size	Notes
Planting soil	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil (2' to 4' deep)	loamy sand (60-65%) & compost (35-40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam, clay content < 5%
Organic content	Min 10% by dry weight (ASTM D 2973)	n/a	aged 6 months, minimum no pine or wood chips
Mulch	shredded hardwood	n/a	
Pea gravel diaphragm	pea gravel, ASTM-D-448	NO. 8 (OR NO. 9 (1 1/8" TO 3/8"))	
Curtain drain	ornamental stone, washed cobbles	stone: 2" to 5"	
Geotextile	n/a	n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 (OR NO. 6 AGGREGATE) (3/8" to 3/4")	
Underdrain piping	F 788, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe, 3/8" perf @ 6" on center, 4 holes per row, minimum of 2' of gravel over pipe, not necessary underneath pipes. Perforated pipe shall be wrapped with 1-inch galvanized hardware cloth.
Precast in place concrete of (required)	MSHA Mix No. 3, f'c = 3500 psi @ 28 days, normal weight, air-entrained, conforming to meet ASTM-C615-60	n/a	28 day strength and slump test, all concrete design (cast-in-place or pre-cast) not using previously approved state or local standard requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland + design to include meeting ACI Code 309 R.9P, vertical loading (1+10 or 1+20); allowable horizontal loading (based on soil pressure); and analysis of potential cracking. Sand substitutes such as Ducrete and Greencrete (AASHTO #10 are not acceptable. No calcium carbide or dolomitic sand substitutes are acceptable. No "rock dust" can be used for sand
Sand	AASHTO M-6 or ASTM-C-33	0.02 to 0.04"	

Appendix B.4. Construction Specifications for Environmental Site Design Practices

**B.4.B Specifications for Permeable Pavements & Reinforced Turf**

These specifications include information on acceptable materials for typical applications and are not exclusive or limiting. The designer is responsible for developing detailed specifications for individual projects and specific conditions.

**1. Pervious Concrete Specifications**

**Design Thickness** - Pervious concrete applications shall be designed so that the thickness of the concrete slab shall support the traffic and vehicle types that will be carried. Applications may be designed using either standard pavement procedures (e.g., AASHTO, ACI 325.9R, ACI 330R) or using structural values derived from flexible pavement design procedures.

**Mix & Installation** - Traditional Portland cements (ASTM C 150, C 1157) may be used in pervious concrete applications. Phosphorus admixtures may also be used. Materials should be tested (e.g., trial batching) prior to construction so that critical properties (e.g., setting time, rate of strength development, porosity, permeability) can be determined.

**Aggregate** - Pervious concrete contains a limited fine aggregate content. Commonly used gradations include ASTM C-33 No. 67 (1/2 in. to No. 4), No. 8 (1/2 in. to No. 16) and No. 89 (1/2 in. to No. 50) sieves. Single-sized aggregate (up to 1 inch) may also be used.

**Water Content** - Water-to-cement ratios between 0.27 and 0.30 are used routinely with proper inclusion of chemical admixtures. Water quality should meet ACI 110. As a general rule, potable water should be used although recycled concrete production water meeting ASTM C 94 or AASHTO M 157 may also be used.

**Admixtures** - Chemical admixtures (e.g., retarders or hydration-stabilizers) are used to obtain special properties in pervious concrete. Use of admixtures should meet ASTM C 494 (chemical admixtures) and ASTM C 260 (air entraining admixtures) and closely follow manufacturer's recommendations.

**Base Course** - The base course shall be AASHTO No. 3 or 4 course aggregate with an assumed open pore space of 30% (n = 0.30).

**2. Permeable Interlocking Concrete Pavements (PICP)**

**Paver Blocks** - Blocks should be either 3 1/2 in. or 4 in. thick, and meet ASTM C 936 or CSA A231.2 requirements. Applications should have 20% or more (40% preferred) of the surface area open. Installation should follow manufacturer's instructions, except that infill and base course materials and dimensions specified in this Appendix shall be followed.

**Infill Materials and Leveling Course** - Openings shall be filled with ASTM C-33 graded sand or sandy loam. PICP blocks shall be placed on a one-inch thick leveling course of ASTM C-33 sand.

Appendix B.4. Construction Specifications for Environmental Site Design Practices

**Base Course** - The base course shall be AASHTO No. 3 or 4 course aggregate with an assumed open pore space of 30% (n = 0.30).

**3. Reinforced Turf**

Reinforced Grass Pavement (RGP) - Whether used with grass or gravel, the RGP thickness shall be at least 1 1/2" thick with a load capacity capable of supporting the traffic and vehicle types that will be carried.

**B.4.C Specifications for Micro-Bioretenion, Rain Gardens, Landscape Infiltration & Infiltration Berms**

**1. Material Specifications**

The allowable materials to be used in these practices are detailed in Table B.4.1.

**2. Filtering Media or Planting Soil**

The soil shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textual analysis is required from the site geologist/topographer. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

The planting soil shall be tested and shall meet the following criteria:

- Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural Classification)
- Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost (40%).
- Clay Content - Media shall have a clay content of less than 5%.
- pH Range - Should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH.

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textual analysis is required from the site geologist/topographer. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

**3. Compaction**

It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove organic soil. If practices are

Appendix B.4. Construction Specifications for Environmental Site Design Practices

excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Recutill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a granulation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grate bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

**4. Plant Material**

Recommended plant material for micro-bioretenion practices can be found in Appendix A, Section A.2.3.

**5. Plant Installation**

Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted to 1/8" of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation.

Appendix B.4. Construction Specifications for Environmental Site Design Practices

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

**6. Underdrains**

Underdrains should meet the following criteria:

- Pipe - Should be 4" to 6" diameter, slotted or perforated rigid plastic pipe (ASTM F 788, Type PS 28, or AASHTO M-278) in a gravel layer. The preferred material is slotted, 4" rigid pipe (e.g., PVC or HDPE).
- Perforations - If perforated pipe is used, perforations should be 3/8" diameter located 6" on center with a minimum of four holes per row. Pipe shall be wrapped with a 1/2" (No. 4 or 4x4) galvanized hardware cloth.
- Gravel - The gravel layer (No. 57 stone preferred) shall be at least 3" thick above and below the underdrain.
- The main collector pipe shall be at a minimum 0.5% slope.
- A rigid, non-perforated observation well must be provided (one per every 1,000 square feet) to provide a clean-out port and monitor performance of the filter.
- A 4" layer of pea gravel (1/2" to 3/4" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24".

The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1000 square feet of surface area).

**7. Miscellaneous**

These practices may not be constructed until all contributing drainage area has been stabilized.

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(410) 461-2099

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*Stephanie J. Juite*  
STEPHANIE J. JUITE, R.L.A., P.E., LEED AP BC&D

9/1/20  
DATE

7/7/22 REVISED SHEET NUMBER

DATE DESCRIPTION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director, Department of Planning and Zoning 10-16-20 Date

Chief, Division of Land Development colljz Date

Chief, Development Engineering Division 10-2-20 Date

PREPARED FOR HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBLEY  
410-313-9203

Address Chart

Parcel Number Street Address

283 9550 BASKET RING ROAD  
COLUMBIA, MARYLAND 21045

PROJECT ELEMENTARY SCHOOL SECTION/AREA 4/1 PARCEL 283

PLAT NOS. BLOCK NO. ZONE TAX MAP ELEC. DIST. CENSUS TR.

L 643/ F. 62 3 NEW TOWN 36 SIXTH 606603

WATER CODE E. 03 SEWER CODE 5580800

APPROVED  
PLANNING BOARD OF HOWARD COUNTY

DATE 9/17/20

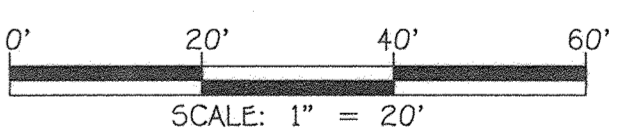
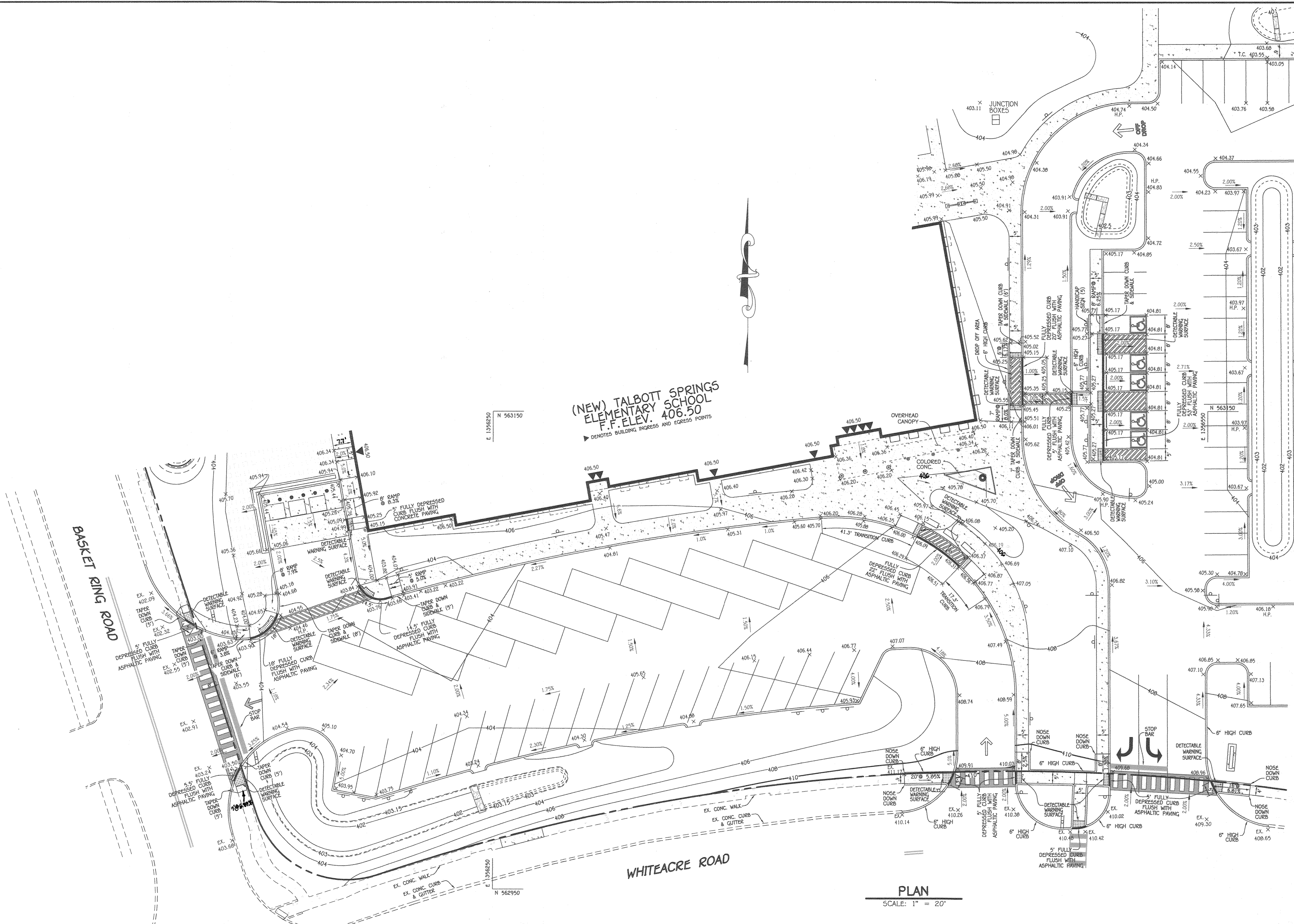
DETAIL SHEET

VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL

ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 15 OF 49

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+ 403.50	PROPOSED SPOT ELEVATION
	PROPOSED CONCRETE WALK
	EX. CONCRETE WALK



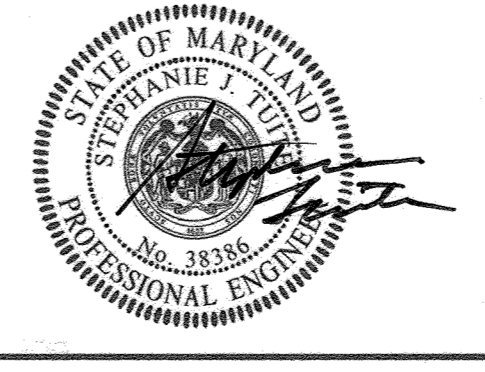
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTHORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2999

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*Stephanie J. Tuite*  
STEPHANIE J. TUITE, R.L.A. P.E., LEED AP BC&D  
9/1/20  
DATE

DATE	DESCRIPTION	REVISION BLOCK
7/7/22	REVISED SHEET NUMBER	
3/9/21	REMOVED SIDEWALK CURB, ADDED CONTOUR NOS.	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>Ally Green</i>	Director - Department of Planning and Zoning	10-16-20 Date
<i>Colleen</i>	Chief, Division of Land Development	10-2-20 Date
<i>Paul</i>	Chief, Development Engineering Division	

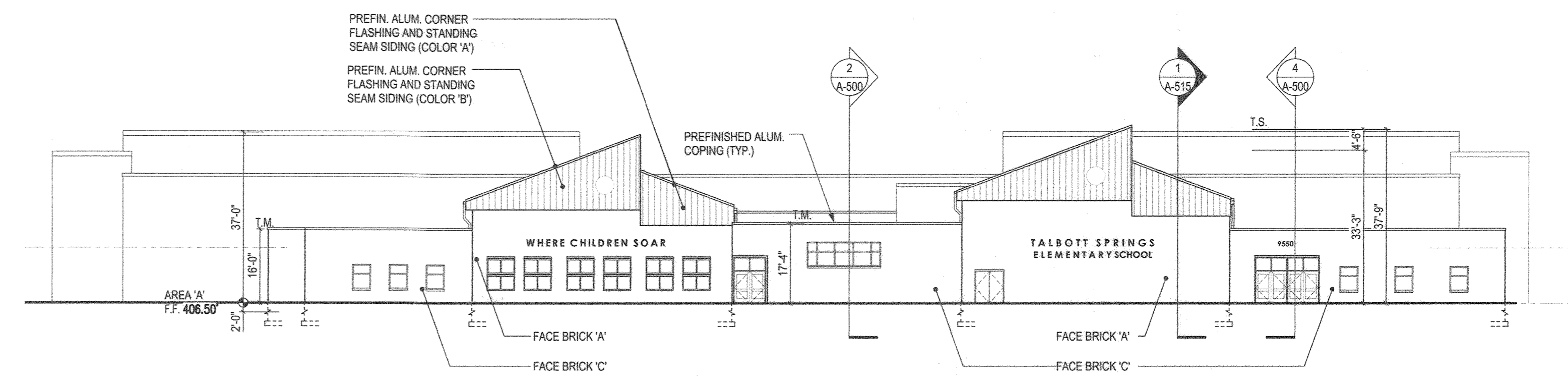
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



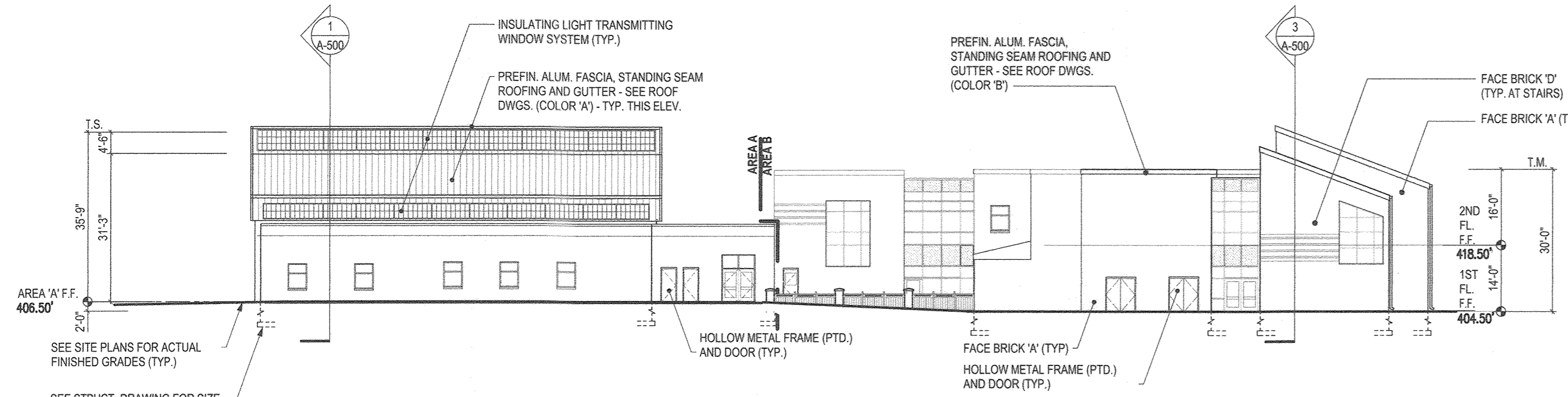
Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E. 03	5580800				

**HANDICAP ACCESS PLAN**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 20' DATE: AUG. 26, 2020  
SHEET 16 OF 49

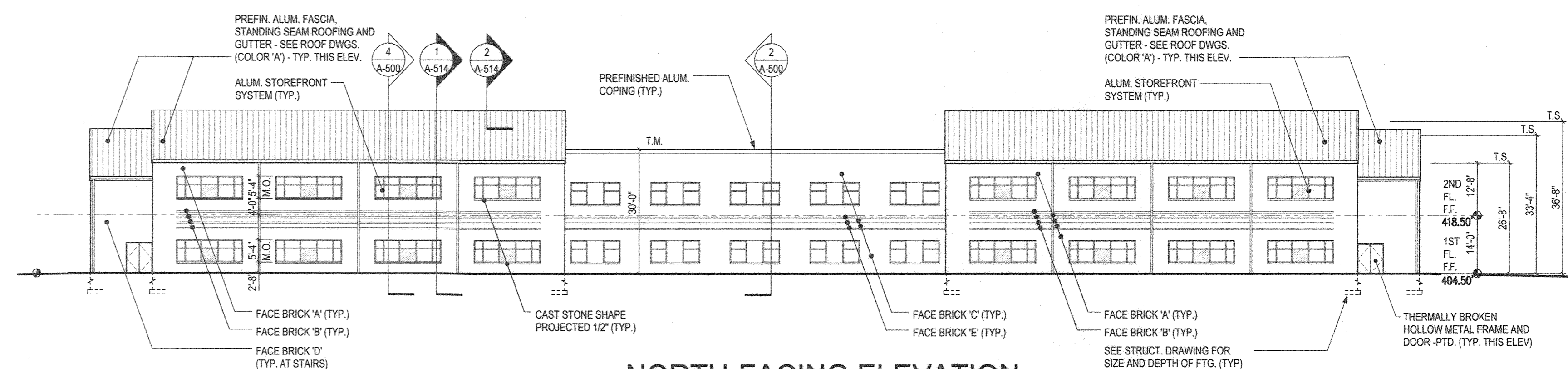




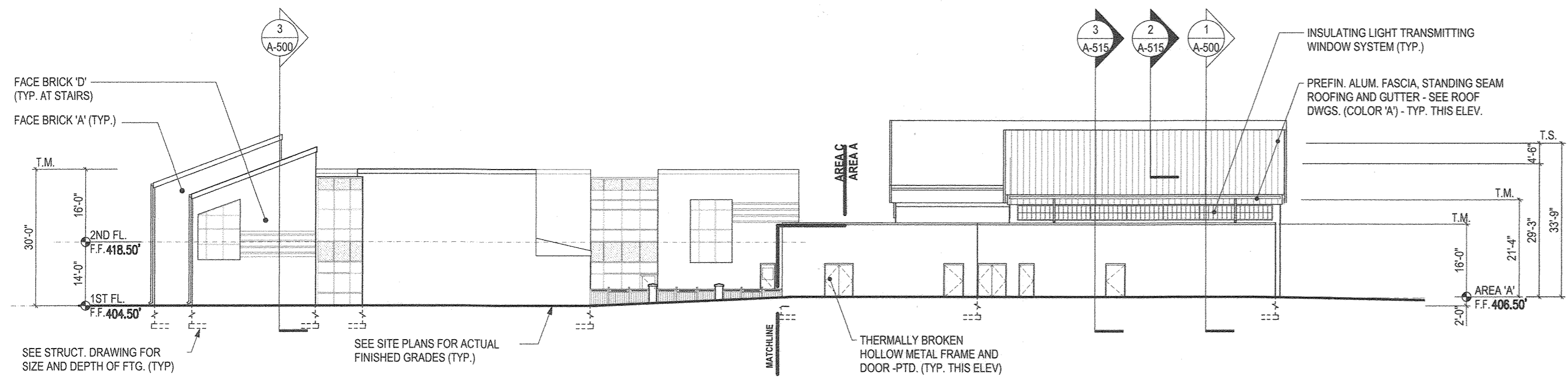
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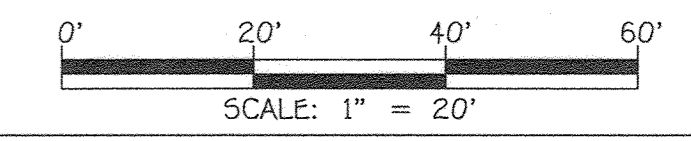
**EAST-FACING ELEVATION**



**NORTH-FACING ELEVATION**



**WEST-FACING ELEVATION**



**BUILDING ELEVATIONS**  
SCALE: 1" = 20"

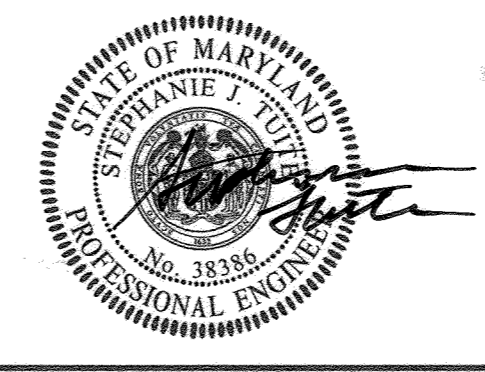
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

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CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
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(410) 461-2892

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*Stephanie J. Tuite*  
STEPHANIE J. TUITE, R.L.A., P.E., LEED AP BCAD  
9/1/20  
DATE

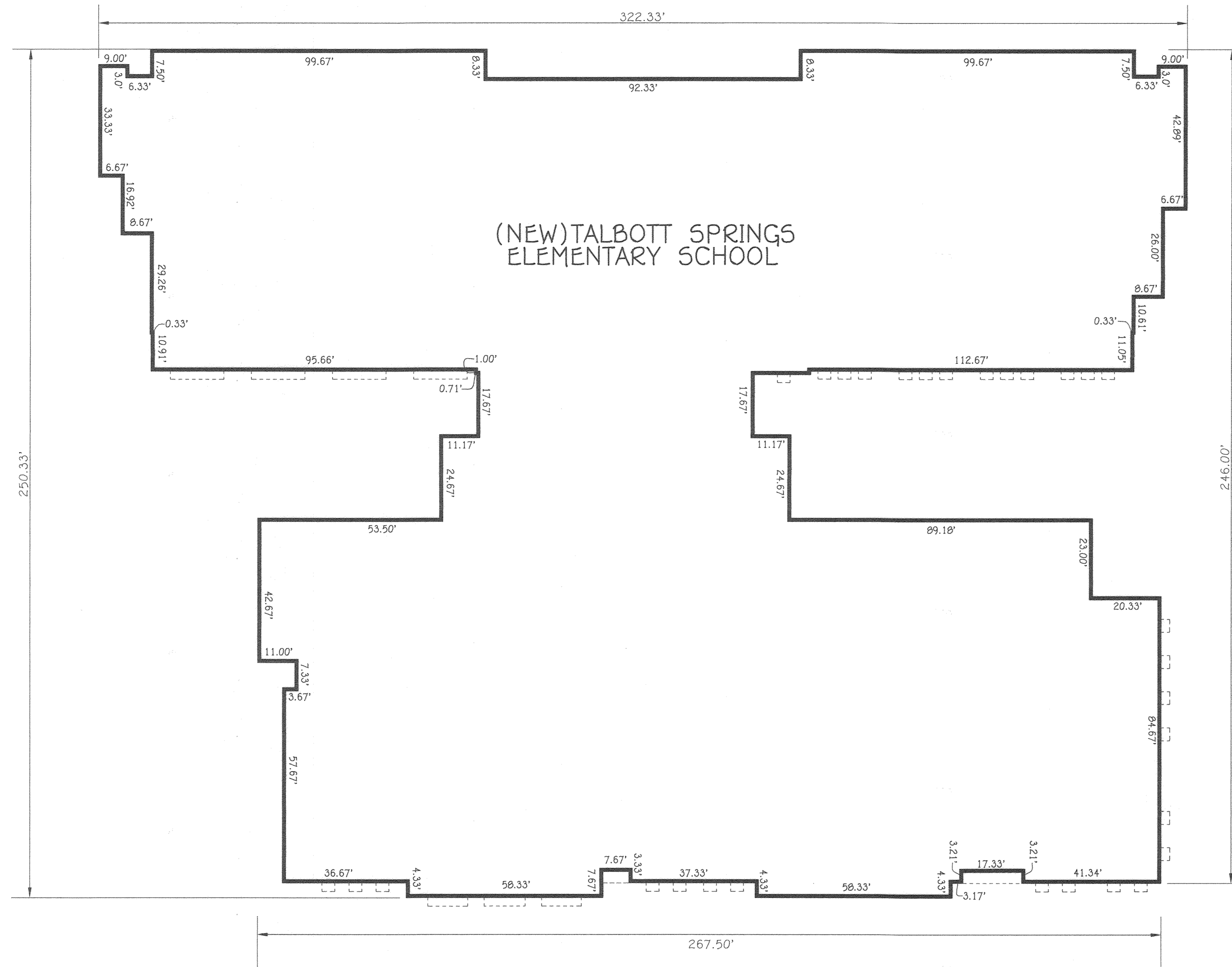
DATE	DESCRIPTION	REVISION BLOCK
7/7/22	REVISED SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>W. J. Gorn</i>	Director - Department of Planning and Zoning	10-16-20 Date
<i>W. J. Gorn</i>	Chief, Division of Land Development	10-27-20 Date
<i>W. J. Gorn</i>	Chief, Development Engineering Division	4 Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



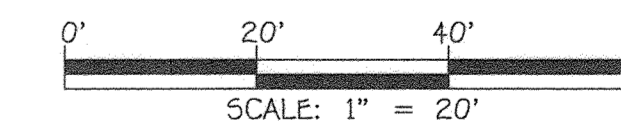
Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT ELEMENTARY SCHOOL	SECTION/AREA 4/1
PLAT NOS. L 643/ F. 62	BLOCK NO. 3
ZONE NEW TOWN	TAX MAP 36
ELEC. DIST. SIXTH	CENSUS TR. 606603
WATER CODE E 03	SEWER CODE 5580800

**BUILDING ELEVATIONS**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 20' DATE: AUG. 26, 2020  
SHEET 17 OF 40



**BUILDING DIMENSIONS**

SCALE: 1" = 20'



APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

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CENTENNIAL SQUARE OFFICE PARK - 10270 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2855

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*Stephanie Tuite*  
STEPHANIE T. TUIE, RLA, P.E., LEED AP BC&D

9/1/20  
DATE

DATE	DESCRIPTION
7/7/22	REVISED SHEET NUMBER
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Stephanie Tuite</i>	10-16-20 Date
Director - Department of Planning and Zoning	
<i>Colleen</i>	10-2-20 Date
Chief, Division of Land and Development	
<i>Stephanie Tuite</i>	
Chief, Development Engineering Division	

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HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
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COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
ELEMENTARY SCHOOL	4/1
PLAT NOS.	BLOCK NO.
L 643/ F. 62	3
ZONE	TAX MAP
NEW TOWN	36
ELEC. DIST.	CENSUS TR.
SIXTH	606603
WATER CODE	SEWER CODE
E 03	5580800

<b>BUILDING DIMENSIONS</b>	
VILLAGE OF OAKLAND MILLS SECTION 4 AREA 1 OPEN SPACE LOT 216 TALBOTT SPRINGS ELEMENTARY SCHOOL	
ZONED: NEW TOWN	PARCEL No.: 283
TAX MAP No.: 36	GRID No.: 3
SIXTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
SCALE: 1" = 20'	DATE: AUG. 26, 2020
SHEET 18 OF 40	

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

A. SOIL PREPARATION
1. TEMPORARY STABILIZATION
A. SEEDING PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT...

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...

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE...
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT...

PERMANENT SEEDING NOTES (B-4-5)

A. SEED MIXTURES
1. GENERAL USE
A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2...

NOTES:

SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND"...

Table with columns: HARDNESS ZONE, SPECIES, APPLICATION RATE (LB./AC), SEEDING DATES, SEEDING DEPTHS, N, P2O5, K2O, and LIME RATE. Includes rows for Tall Fescue, Kentucky Bluegrass, and Turfgrass Mixtures.

PERMANENT SEEDING SUMMARY

Table with columns: HARDNESS ZONE, SEED MIXTURE, APPLICATION RATE, SEEDING DATES, SEEDING DEPTHS, N, P2O5, K2O, and LIME RATE. Summarizes seeding requirements for different zones.

TEMPORARY SEEDING NOTES (B-4-4)

DEFINITION
TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.
PURPOSE
TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

TEMPORARY SEEDING SUMMARY

Table with columns: HARDNESS ZONE, SEED MIXTURE, APPLICATION RATE, SEEDING DATES, SEEDING DEPTHS, N, P2O5, K2O, and LIME RATE. Summarizes temporary seeding requirements.

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

DEFINITION
THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.
PURPOSE
TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

DEFINITION

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.

DEFINITION

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.

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TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1895 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD...
2. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.

DEFINITION

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.

DEFINITION

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DEFINITION

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.

ELEMENTARY SCHOOL - SEQUENCE OF CONSTRUCTION

STAGE ONE:
CONTRACTOR TO NOT ALLOW CONSTRUCTION TRAFFIC DURING THE ARRIVAL AND DISMISSAL TIMES, TYPICALLY 30 MINUTES BEFORE OFFICIAL START TIME OF 8:40AM AND AFTER OFFICIAL CLOSING TIME OF 3:10PM FOR THE SCHOOL.
1. OBTAIN GRADING PERMIT. (1 DAY)

STAGE TWO:

10. REMOVE EXISTING SIDEWALKS AND REPAIR OR REPLACE AS NECESSARY. (1 WEEK)
11. CONCURRENTLY: REMOVE ALL EXISTING SMALL PORTABLE CLASSROOMS. BEGIN REMOVAL OF A PORTION OF THE EXISTING SCHOOL BUILDING AND SIDEWALKS AS NOTED ON PLANS.

STAGE THREE:

16. REMOVE EXISTING PORTION OF EXISTING SCHOOL BUILDING AND LARGE PORTABLE CLASSROOM. (2 MONTHS)
17. INSTALL REMAINING LIGHTING AND SIDEWALKS NOT ALREADY INSTALLED AND UPON COMPLETION OF NEW PARKING AREA AND STUDENT DROP OFF LOOP, REMOVE EXISTING BUS LOOP / PARKING REMAINING. (1 WEEK)

STAGE FOUR:

21. THOROUGHLY CLEAN (FLUSH) THE REMAINING STORM DRAIN SYSTEMS. (1 DAY)
22. WITH APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, CONVERT THE SEDIMENT TRAPS INTO THE PERMANENT SWM FACILITIES (BMP #1, BMP #2, AND #3) (i.e. HAVING FULLY ESTABLISHED 3" GRASS OR PAVEMENT) AS WELL AS CONSTRUCTING BMP #3 THRU BMP #5 & BMP #7. THIS WORK INCLUDES, REMOVING SEDIMENT, RE-GRADING TO DESIGN ELEVATIONS, INSTALLING FOREBAYS, FOCAL POINT SYSTEM, UNDERDRAINS, STONE AND PLANTING SOIL LAYERS AND MULCH, STABILIZE POND WITH PERMANENT SEEDING AND INSTALL SWM LANDSCAPING SHOWN ON SHEETS 39 THRU 41. (3 WEEKS)

STAGE FIVE:

25. FOLLOWING SUCCESSFUL STABILIZATION (I.E. FULLY-ESTABLISHED VEGETATION (3" GRASS OR PAVEMENT) 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.

FISHER, COLLINS & CARTER, INC. ENGINEERING CONSULTANTS & LAND SURVEYORS. ENGINEER'S CERTIFICATE and DEVELOPER'S CERTIFICATE sections.

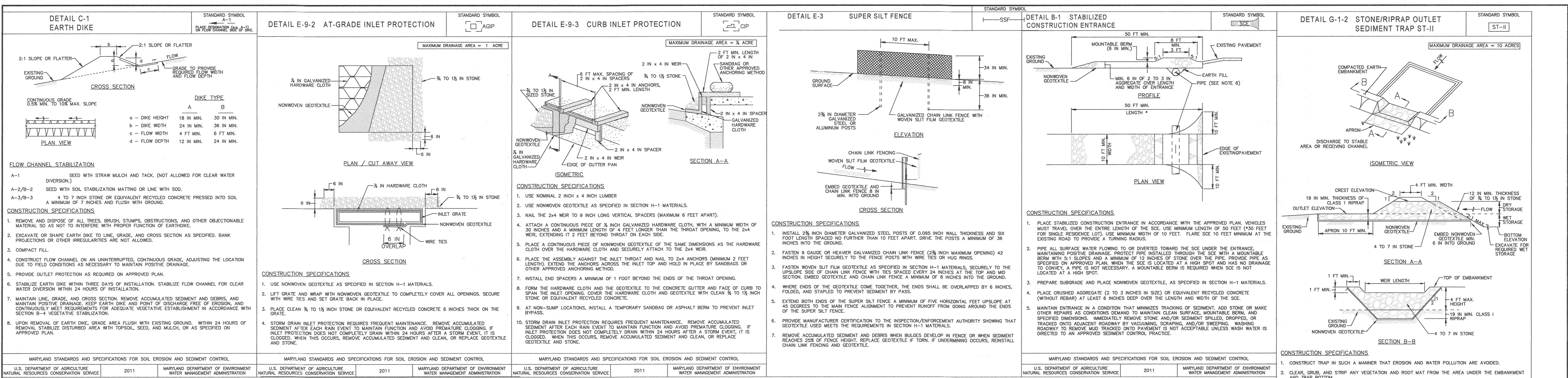
Professional Engineer signature and stamp for Stephanie J. Nutt, R.L.A., P.E., License No. 38386.

Professional Engineer signature and stamp for Stephanie J. Nutt, R.L.A., P.E., License No. 38386.

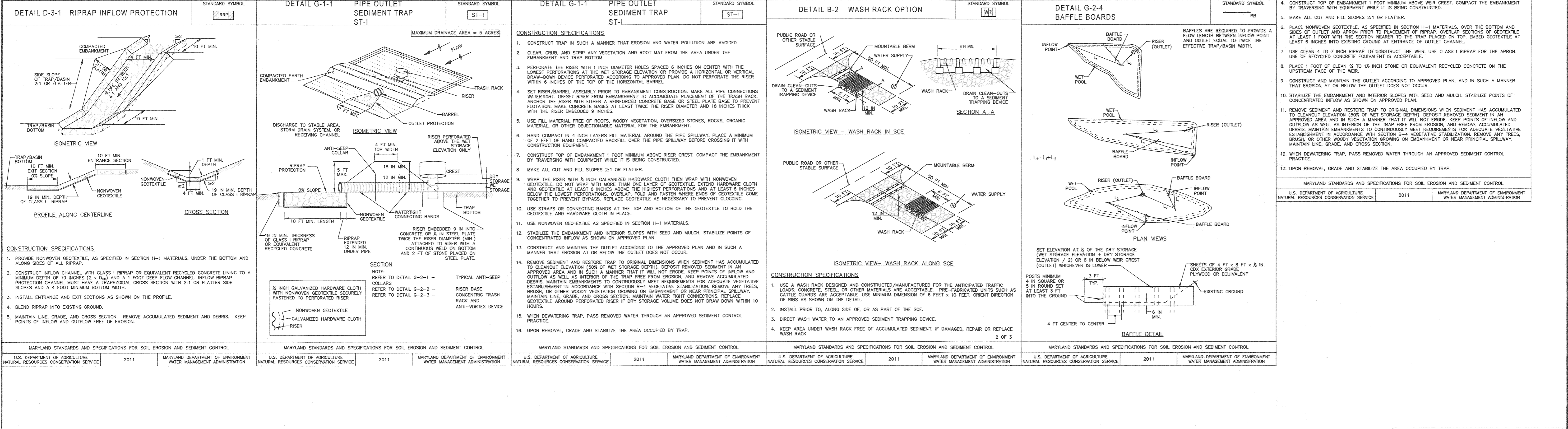
Professional Engineer signature and stamp for Stephanie J. Nutt, R.L.A., P.E., License No. 38386.

Professional Engineer signature and stamp for Stephanie J. Nutt, R.L.A., P.E., License No. 38386.

SEDIMENT AND EROSION CONTROL NOTES AND SEQUENCE OF CONSTRUCTION. Includes site information for Village of Oakland Mills, Section 4 Area 1, Open Space Lot 216, Talbott Springs Elementary School.



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
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MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE: 9/17/20

<b>FISHER, COLLINS &amp; CARTER, INC.</b> CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTRAL SQUARE OFFICE: PARC - 10772 BALDWIN NATIONAL PIKE ELIZOFT CITY, MARYLAND 21042 (410) 461-2995	<b>ENGINEER'S CERTIFICATE</b> "I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT." <i>Stephan J. Witte</i> SIGNATURE OF ENGINEER 9/1/20 DATE	"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022." <i>Stephan J. Witte</i> SIGNATURE 9/1/20 DATE STEPHAN J. WITTE, P.E., R.A., LEED AP BC&D	7/7/22 REVISED SHEET NUMBER DATE DESCRIPTION REVISION BLOCK <i>Algo</i> Director - Department of Planning and Zoning 10-16-20 Date <i>mlw</i> Date 10-2-20 Date Chief, Development Engineering Division	PREPARED FOR HOWARD COUNTY PUBLIC SCHOOL SYSTEM 9020 MENDENHALL COURT SUITE 'C' COLUMBIA, MARYLAND 21045 Attention: DANIEL LUBELEY 410-313-0203	Address Chart Parcel Number: 283 Street Address: 9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045	<b>SEDIMENT AND EROSION CONTROL DETAIL SHEET</b> <b>VILLAGE OF OAKLAND MILLS</b> SECTION 4 AREA 1 OPEN SPACE LOT 216 <b>TALBOTT SPRINGS ELEMENTARY SCHOOL</b> ZONED: NEW TOWN PARCEL Nos.: 283 TAX MAP No.: 36 GRID No.: 3 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: AUG. 26, 2020 SHEET 20 OF 40
	<b>DEVELOPER'S CERTIFICATE</b> "I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE." <i>James Hally</i> SIGNATURE OF DEVELOPER 9-2-2020 DATE	THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT <i>John P. Robertson</i> SIGNATURE 9/10/20 DATE HOWARD SOIL CONSERVATION DISTRICT	PROJECT: ELEMENTARY SCHOOL SECTION/AREA: 4/1 PARCEL: 283 PLAT NOS.: L. 643/ F. 62 BLOCK NO.: 3 ZONE: NEW TOWN TAX MAP: 36 ELEC. DIST.: SIXTH CENSUS TR.: 606603 WATER CODE: E 03 SEWER CODE: 5580800			

Froehling & Robertson, Inc. BORING LOG Boring: SWM-1 (1 of 1)

Project No: 75V0139 Elevation: 399 ±
Client: Howard County Public Schools Total Depth: 13.0'
Project: Talbott Springs Elementary School Boring Location: See Boring Location Plan
City/State: Howard County, MD Date Drilled: 2/21/18
Drilling Method: HSA Hammer Type: Automatic
Driller: N. Bonilla

Boring log table for SWM-1 with columns: Elevation, Depth, Description of Materials (Classification), Sample Blows, Sample Depth (feet), N-Value (blows/ft), Remarks. Includes soil types like FILL, RESIDUUM, and SOFT WEATHERED ROCK.

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

Froehling & Robertson, Inc. BORING LOG Boring: SWM-2 (1 of 1)

Project No: 75V0139 Elevation: 393 ±
Client: Howard County Public Schools Total Depth: 7.0'
Project: Talbott Springs Elementary School Boring Location: See Boring Location Plan
City/State: Howard County, MD Date Drilled: 2/21/18
Drilling Method: HSA Hammer Type: Automatic
Driller: N. Bonilla

Boring log table for SWM-2 with columns: Elevation, Depth, Description of Materials (Classification), Sample Blows, Sample Depth (feet), N-Value (blows/ft), Remarks. Includes soil types like FILL, RESIDUUM, and SOFT WEATHERED ROCK.

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

Froehling & Robertson, Inc. BORING LOG Boring: SWM-3 (1 of 1)

Project No: 75V0139 Elevation: 399 ±
Client: Howard County Public Schools Total Depth: 15.5'
Project: Talbott Springs Elementary School Boring Location: See Boring Location Plan
City/State: Howard County, MD Date Drilled: 2/21/18
Drilling Method: HSA Hammer Type: Automatic
Driller: N. Bonilla

Boring log table for SWM-3 with columns: Elevation, Depth, Description of Materials (Classification), Sample Blows, Sample Depth (feet), N-Value (blows/ft), Remarks. Includes soil types like FILL, RESIDUUM, and SOFT WEATHERED ROCK.

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

Froehling & Robertson, Inc. BORING LOG Boring: SWM-4 (1 of 1)

Project No: 75V0139 Elevation: 404 ±
Client: Howard County Public Schools Total Depth: 20.0'
Project: Talbott Springs Elementary School Boring Location: See Boring Location Plan
City/State: Howard County, MD Date Drilled: 2/20/18
Drilling Method: HSA Hammer Type: Automatic
Driller: N. Bonilla

Boring log table for SWM-4 with columns: Elevation, Depth, Description of Materials (Classification), Sample Blows, Sample Depth (feet), N-Value (blows/ft), Remarks. Includes soil types like FILL, RESIDUUM, and SOFT WEATHERED ROCK.

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

Froehling & Robertson, Inc. BORING LOG Boring: SWM-5 (1 of 1)

Project No: 75V0139 Elevation: 409 ±
Client: Howard County Public Schools Total Depth: 17.0'
Project: Talbott Springs Elementary School Boring Location: See Boring Location Plan
City/State: Howard County, MD Date Drilled: 2/22/18
Drilling Method: HSA Hammer Type: Automatic
Driller: N. Bonilla

Boring log table for SWM-5 with columns: Elevation, Depth, Description of Materials (Classification), Sample Blows, Sample Depth (feet), N-Value (blows/ft), Remarks. Includes soil types like FILL, RESIDUUM, and SOFT WEATHERED ROCK.

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

Froehling & Robertson, Inc. BORING LOG Boring: SWM-6 (1 of 1)

Project No: 75V0139 Elevation: 401 ±
Client: Howard County Public Schools Total Depth: 20.0'
Project: Talbott Springs Elementary School Boring Location: See Boring Location Plan
City/State: Howard County, MD Date Drilled: 2/22/18
Drilling Method: HSA Hammer Type: Automatic
Driller: N. Bonilla

Boring log table for SWM-6 with columns: Elevation, Depth, Description of Materials (Classification), Sample Blows, Sample Depth (feet), N-Value (blows/ft), Remarks. Includes soil types like FILL, RESIDUUM, and SOFT WEATHERED ROCK.

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

Froehling & Robertson, Inc. BORING LOG Boring: SWM-7 (1 of 1)

Project No: 75V0139 Elevation: 402 ±
Client: Howard County Public Schools Total Depth: 16.0'
Project: Talbott Springs Elementary School Boring Location: See Boring Location Plan
City/State: Howard County, MD Date Drilled: 2/22/18
Drilling Method: HSA Hammer Type: Automatic
Driller: N. Bonilla

Boring log table for SWM-7 with columns: Elevation, Depth, Description of Materials (Classification), Sample Blows, Sample Depth (feet), N-Value (blows/ft), Remarks. Includes soil types like FILL, RESIDUUM, and SOFT WEATHERED ROCK.

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

Froehling & Robertson, Inc. BORING LOG Boring: SWM-8 (1 of 1)

Project No: 75V0139 Elevation: 402 ±
Client: Howard County Public Schools Total Depth: 20.0'
Project: Talbott Springs Elementary School Boring Location: See Boring Location Plan
City/State: Howard County, MD Date Drilled: 2/22/18
Drilling Method: HSA Hammer Type: Automatic
Driller: N. Bonilla

Boring log table for SWM-8 with columns: Elevation, Depth, Description of Materials (Classification), Sample Blows, Sample Depth (feet), N-Value (blows/ft), Remarks. Includes soil types like FILL, RESIDUUM, and SOFT WEATHERED ROCK.

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

APPROVED PLANNING BOARD OF HOWARD COUNTY DATE 9/17/20

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21206
(410) 461 - 2955

ENGINEER'S CERTIFICATE: I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS...
Signature of Engineer: Stephanie J. Kute DATE: 9/11/20
DEVELOPER'S CERTIFICATE: I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN...
Signature of Developer: John K. Roberts DATE: 9/22/20

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 36306, EXPIRATION DATE: JANUARY 12, 2022."
Signature: Stephanie J. Kute DATE: 9/11/20
STEPHANIE J. KUTE, P.E., LEED AP BC&D

7/7/22 REVISED SHEET NUMBER
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director: [Signature] DATE: 10-16-20
Chief, Planning and Development: [Signature] DATE: 10-2-20

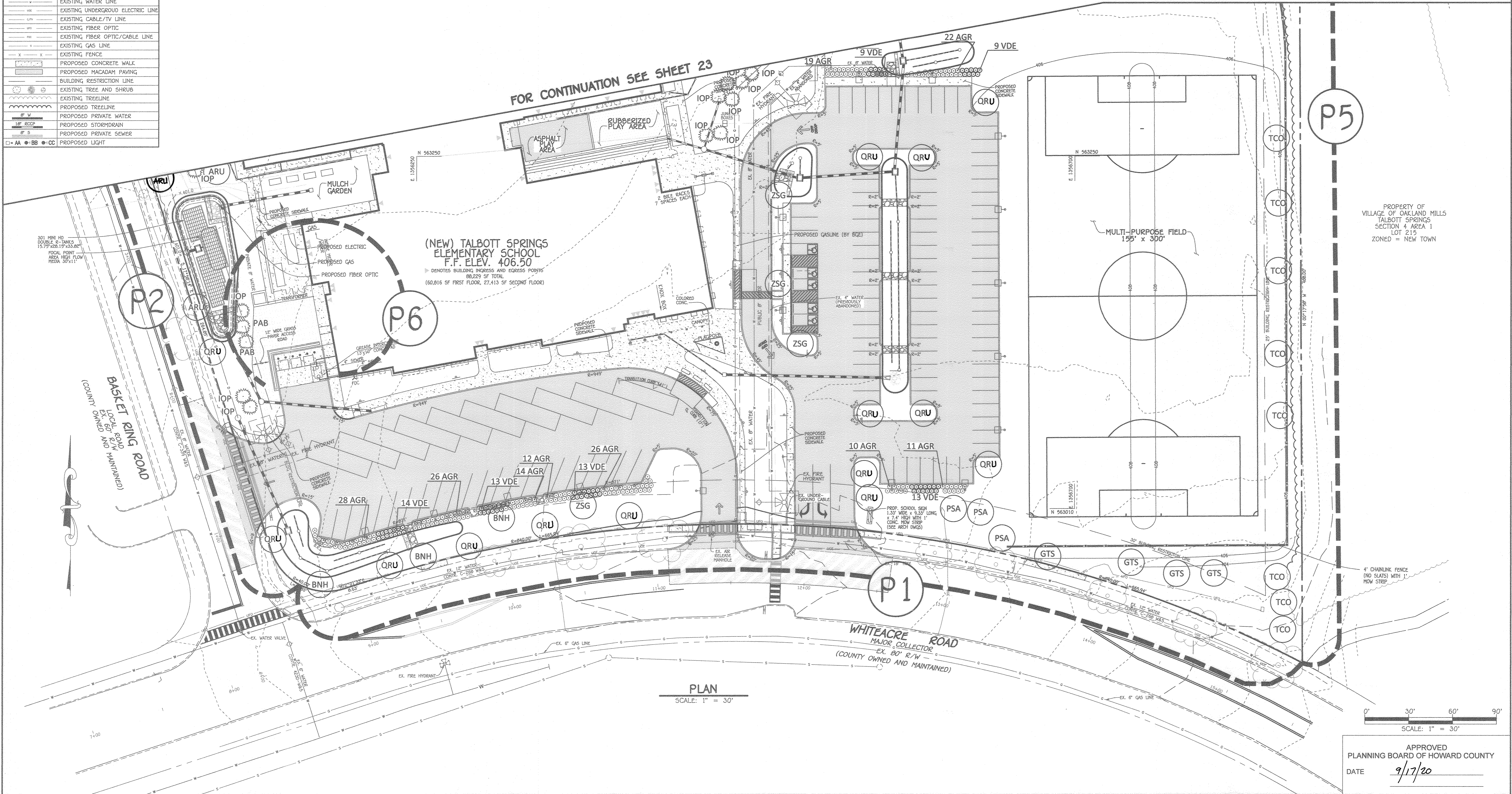
PREPARED FOR HOWARD COUNTY PUBLIC SCHOOL SYSTEM
9020 MENDENHALL COURT SUITE 'C'
COLUMBIA, MARYLAND 21045
Attention: DANIEL LUBELEY 410-313-8203

Address Chart table with columns: Parcel Number, Street Address, SECTION/AREA, PARCEL. Includes parcel 283 and address 9550 BASKET RING ROAD.

BORING LOGS VILLAGE OF OAKLAND MILLS SECTION 4 AREA 1 OPEN SPACE LOT 216 TALBOTT SPRINGS ELEMENTARY SCHOOL
ZONED: NEW TOWN PARCEL Nos.: 283 TAX MAP No.: 36 GRID No.: 3 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: AUG. 26, 2020 SHEET 21 OF 40

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
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	BUILDING RESTRICTION LINE
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED PRIVATE WATER
---	PROPOSED STORM DRAIN
---	PROPOSED PRIVATE SEWER
---	PROPOSED LIGHT

FOR CONTINUATION SEE SHEET 23



PROPERTY OF  
VILLAGE OF OAKLAND MILLS  
TALBOTT SPRINGS  
SECTION 4 AREA 1  
LOT 215  
ZONED = NEW TOWN

PLAN  
SCALE: 1" = 30'

0' 30' 60' 90'  
SCALE: 1" = 30'

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

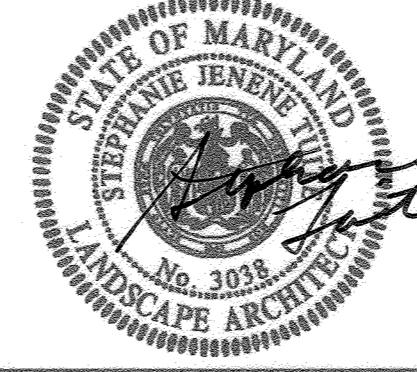
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21144  
(410) 461-2095

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 3038, EXPIRATION DATE: APRIL 17, 2022."  
*Stephanie J. Turte*  
STEPHANIE J. TURTE, RLA, P.E., LEED AP BC&O  
9/1/20  
DATE

DATE	DESCRIPTION	REVISION
7/7/22	REVISED SHEET NUMBER AND TREE TYPES	
9/9/21	REVISED AREA LOCATION TO NEW PROPOSED DESIGN	

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Director - Department of Planning and Zoning  
Date 10-16-20  
Chief, Development  
Date 10-2-20  
Chief, Development Engineering Division

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBBELEY  
410-313-8203



Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

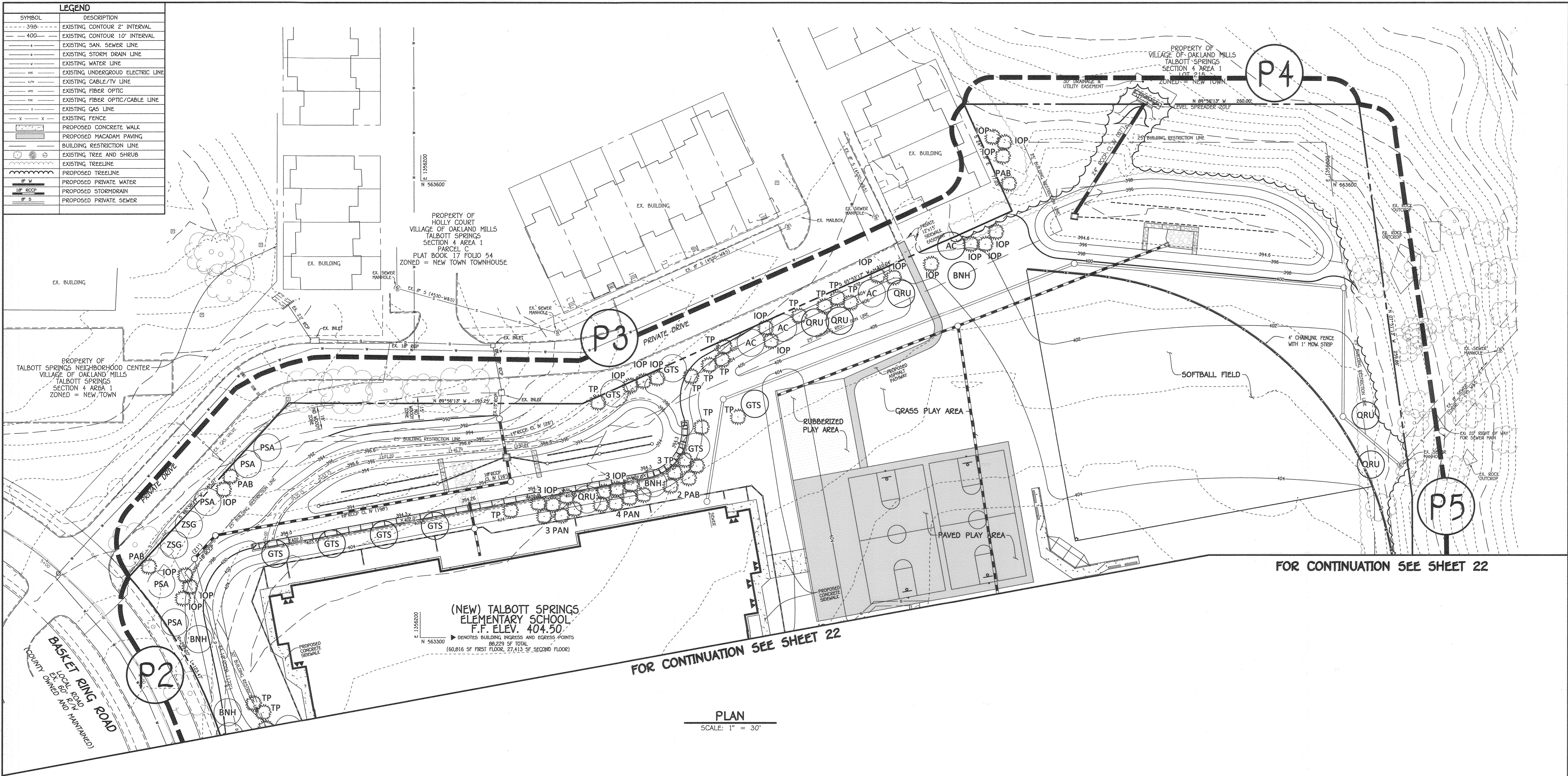
PROJECT	SECTION/AREA	PARCEL
ELEMENTARY SCHOOL	4/1	283

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603

WATER CODE	SEWER CODE
E 03	550800

**LANDSCAPE PLAN**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 22 OF 40

LEGEND	
SYMBOL	DESCRIPTION
--- 390 ---	EXISTING CONTOUR 2' INTERVAL
--- 400 ---	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 CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	BUILDING RESTRICTION LINE
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED PRIVATE WATER
---	PROPOSED STORMDRAIN
---	PROPOSED PRIVATE SEWER

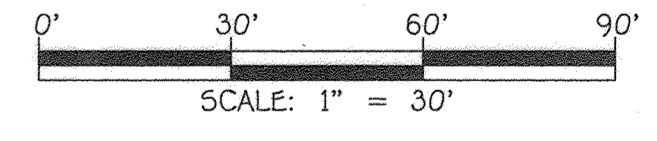


(NEW) TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
F.F. ELEV. 404.50  
DENOTES BUILDING INGRESS AND EGRESS POINTS  
88,229 SF TOTAL  
(60,816 SF FIRST FLOOR, 27,413 SF SECOND FLOOR)

FOR CONTINUATION SEE SHEET 22

PLAN  
SCALE: 1" = 30'

FOR CONTINUATION SEE SHEET 22



**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE: PARC - 10772 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21144  
(410) 461 - 2995

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: JANUARY 25, 2025."  
*Paul G. Cavanaugh*  
PAUL G. CAVANAUGH  
DATE: *July 13, 2022*

7/7/22	REPLACEMENT SHEET
3/9/21	REVISED LOCATION DUE TO NEW STORM DRAIN
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Mary A. Kordal</i>	For Amy Cowan 8/11/22
Director, Department of Planning and Zoning	Date
<i>Chief, Division of Land Development</i>	8/11/22
Chief, Development Engineering Division	Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203

Address Chart				
Parcel Number	Street Address			
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PROJECT	SECTION/AREA	PARCEL		
ELEMENTARY SCHOOL	4/1	283		
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST. CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH 606603
WATER CODE	E. 03	SEWER CODE	5580800	

**REVISED LANDSCAPE PLAN**  
**VILLAGE OF OAKLAND MILLS**  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
**TALBOTT SPRINGS**  
**ELEMENTARY SCHOOL**  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: MAY 31, 2022  
SHEET 23 OF 49

PLANT LIST					
QTY.	KEY	BOTANICAL NAME COMMON NAME	SIZE	CONT.	REMARKS
<b>TREES - DECIDUOUS SHADE</b>					
3	ARU	Acer rubrum 'Red Sunset'	3" - 3-1/2" cal.	B & B	Seedless
		Red Sunset Red Maple			
7	BNH	Betula nigra 'Heritage'	10-12' ht. min.	B & B	Multistem/3 trunks min.
		River Birch			
12	GTS	Gleditsia triacanthos inermis 'Shademaster'	3" - 3-1/2" cal.	B & B	Matched
		Thornless Honeylocust			
8	PSA	Prunus sargentii	3" - 3-1/2" cal.	B & B	
		Sargent Cherry			
0	QR0	Quercus robur 'Fastigiata'	2-1/2" - 3" cal.	B & B	
		Columnar English Oak			
20	QRU	Quercus rubrum	2-1/2" - 3" cal.	B & B	
		Red Oak			
8	TCO	Tilia cordata 'Greenspire'	2-1/2" - 3" cal.	B & B	
		Greenspire Littleleaf Linden			
6	Z5G	Zelkova serrata var. 'Greenvase'	2-1/2" - 3" cal.	B & B	
		Green Vase Zelkova			
6	AC	Amelanchier canadensis	8'-10' Ht.	B & B	
		Shadblow Serviceberry			
<b>TREES - EVERGREEN</b>					
24	TP	Thuja x plicata 'Green Giant'	6'-8'Ht.	B & B	
		Green Giant Arborvitae			
38	IOP	Ilex opaca	6'-8'Ht.	B & B	
		American Holly			
8	PAB	Picea Abies	10'-12'Ht.	B & B	
7	PAN	Norway Spruce	16' HT	B & B	
<b>SHRUBS</b>					
168	AGR	Abelia x grandiflora	24"-30"Ht.	Container	36" o/c
		Glossy Abelia			
71	VDE	Viburnum dentatum 'Christom'	24"-30"Ht.	Container	36" o/c
		Arrowwood Viburnum (Blue Muffin)			

NOTE: SEE SHEETS 22 & 23, LANDSCAPE PLANS, FOR LOCATIONS.

SCHEDULE A PERIMETER LANDSCAPE EDGE (P-1 THRU P-6)						
PERIMETER	P1	P2	P3	P4	P5	P6
CATEGORY	BUFFER - PARKING ADJACENT TO ROADWAY	BUFFER - NON-RESIDENTIAL ADJACENT TO ROADWAY	BUFFER - NON-RESIDENTIAL ADJACENT TO RESIDENTIAL	BUFFER - NON-RESIDENTIAL ADJ. TO NON-RESIDENTIAL	BUFFER - NON-RESIDENTIAL ADJ. TO NON-RESIDENTIAL	Dumpster Screening
LANDSCAPE TYPE	E	B	C	A	A	D
LINEAR FEET OF PERIMETER	706'	420'	736'	260'	748'	65'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	YES, 2 EX. TREES & 30' WIDE x 233' LONG	YES, 2 EX. TREES & 30' WIDE x 90' LONG	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE IF NEEDED)	NO	NO	NO	NO	NO	WALL
NUMBER OF PLANTS REQUIRED						
SHADE TREES	18	9	19	1	9	-
EVERGREEN TREES	-	11	37	-	-	-
SHRUBS	177	-	-	-	-	-
NUMBER OF PLANTS PROVIDED						
SHADE TREES	18	9	24	1	9	-
EVERGREEN TREES	-	11	59	-	-	-
OTHER TREES (2:1 SUBSTITUTION)	-	-	-	-	-	-
SHRUBS (10:1 SUBSTITUTION)	180	-	-	-	-	-
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	-	-	-	-	-	-

NOTE: CREDIT FOR 2 EXISTING TREES ALONG PERIMETER 5.

#### LANDSCAPING NOTES

"At the time of plant installation, all trees listed and approved on the Landscape Plan, shall comply with the proper height requirement in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocations of the required plantings may be made without prior review and approval from the Department of Planning and Zoning.

"The Owner, tenants and/or their agents shall be responsible for maintenance of the required perimeter landscaping. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All the other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced."

#### DEVELOPER'S / BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*[Signature]*  
DANIEL LUBELEY  
DIRECTOR OF SCHOOL PLANNING AND CONSTRUCTION

9-2-2020  
DATE

#### PLANTING NOTES:

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF HOWARD COUNTY CODE AND LANDSCAPE MANUAL AND IS TO BE USED FOR PLANTING ONLY. LANDSCAPING SHALL BE PROVIDED AS SHOWN ON THIS PLAN SHEET. NO SURETY IS REQUIRED SINCE THIS IS A HOWARD COUNTY BOARD OF EDUCATION PROJECT.
- CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK. ALL GENERAL NOTES FROM SHEET 1, SHALL APPLY.
- FIELD VERIFY UNDERGROUND UTILITY LOCATIONS AND EXISTING CONDITIONS BEFORE STARTING PLANTING WORK, EVEN WHERE PLANT LOCATIONS ARE DIMENSIONED. CONTACT CONSTRUCTION MANAGER IF ANY RELOCATION ARE REQUIRED.
- PLANT QUANTITIES SHOWN ON PLANT LIST ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON THE PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL TAKE PRECEDENCE.
- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE A.A.N. SPECIFICATIONS, AND BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES BUT NOT OTHERWISE PLANTED, PAVED OR MULCHED SHALL BE SEEDING IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ALL EXPOSED EARTH WITHIN THE LIMITS OF THE PLANTING BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH PER PLANTING DETAILS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING IF SOIL OR DRAINAGE CONDITIONS ARE ENCOUNTERED WHICH MAY BE DETRIMENTAL TO THE GROWTH OF PLANTS.
- NO SUBSTITUTION SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER OR HIS REPRESENTATIVE.
- REFER TO OTHER SITE DWGS. FOR ADDITIONAL SEEDING REQUIREMENTS.

Note: THERE IS NO LANDSCAPING SURETY REQUIRED FOR THE LANDSCAPE PLAN DUE TO IT BEING A HOWARD COUNTY PUBLIC SCHOOL SYSTEM PROJECT.

NOTE: TREE AND SHRUB TYPES ARE ONLY AN RECOMMENDATION, THESE MAY BE REVISED TO A COUNTY APPROVED EQUIVALENT FROM THE HOWARD COUNTY LANDSCAPE MANUAL. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL."

#### PLANTING SPECIFICATIONS

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

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

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

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

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

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

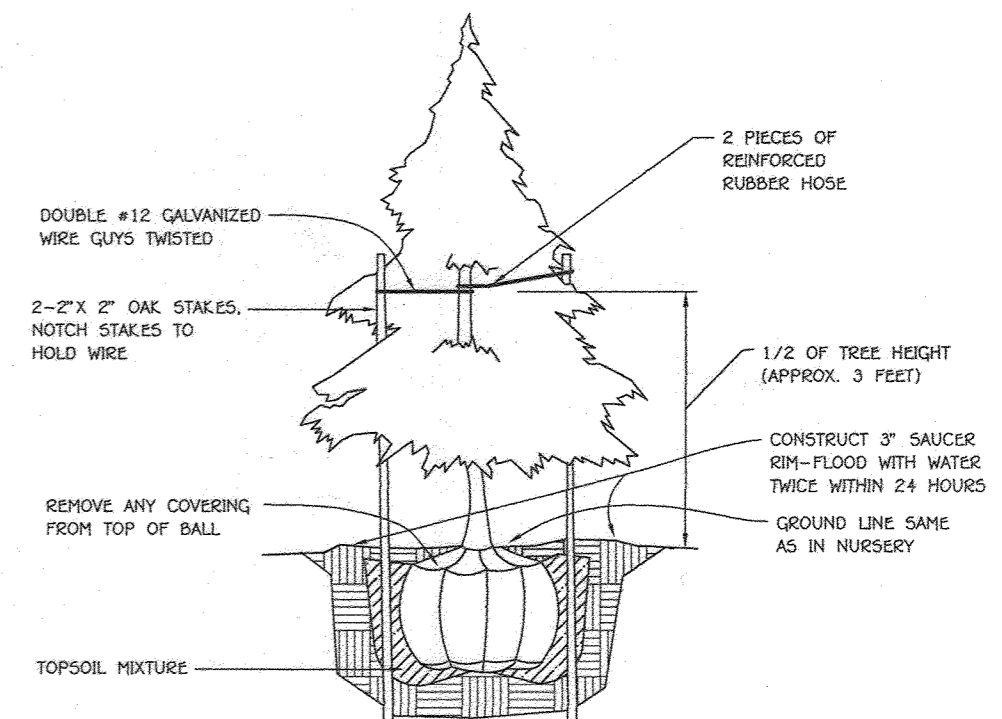
POSITIVE DRAINAGE SHALL BE MAINTAINED IN PLANTING BEDS 2 PERCENT SLOPE).

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

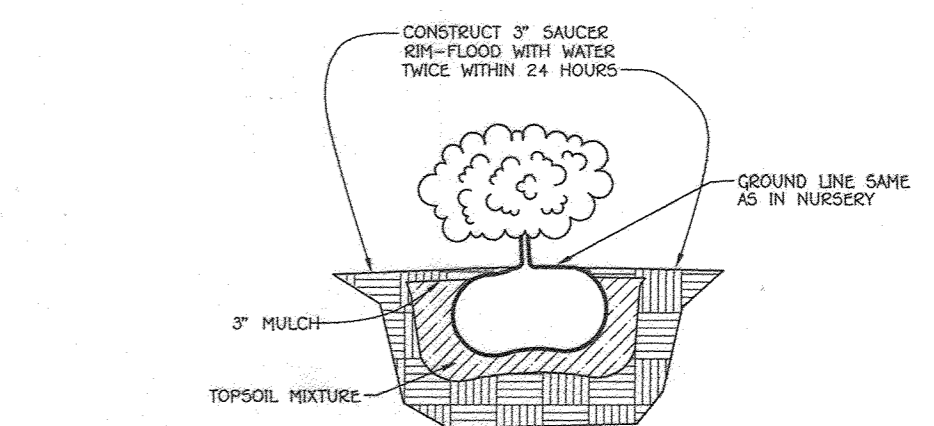
WEED CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL. CAUTION: BE SURE TO CAREFULLY CHECK THE CHEMICAL USED TO ASSURE ITS ADAPTABILITY TO THE SPECIFIC GROUND COVER TO BE TREATED.

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

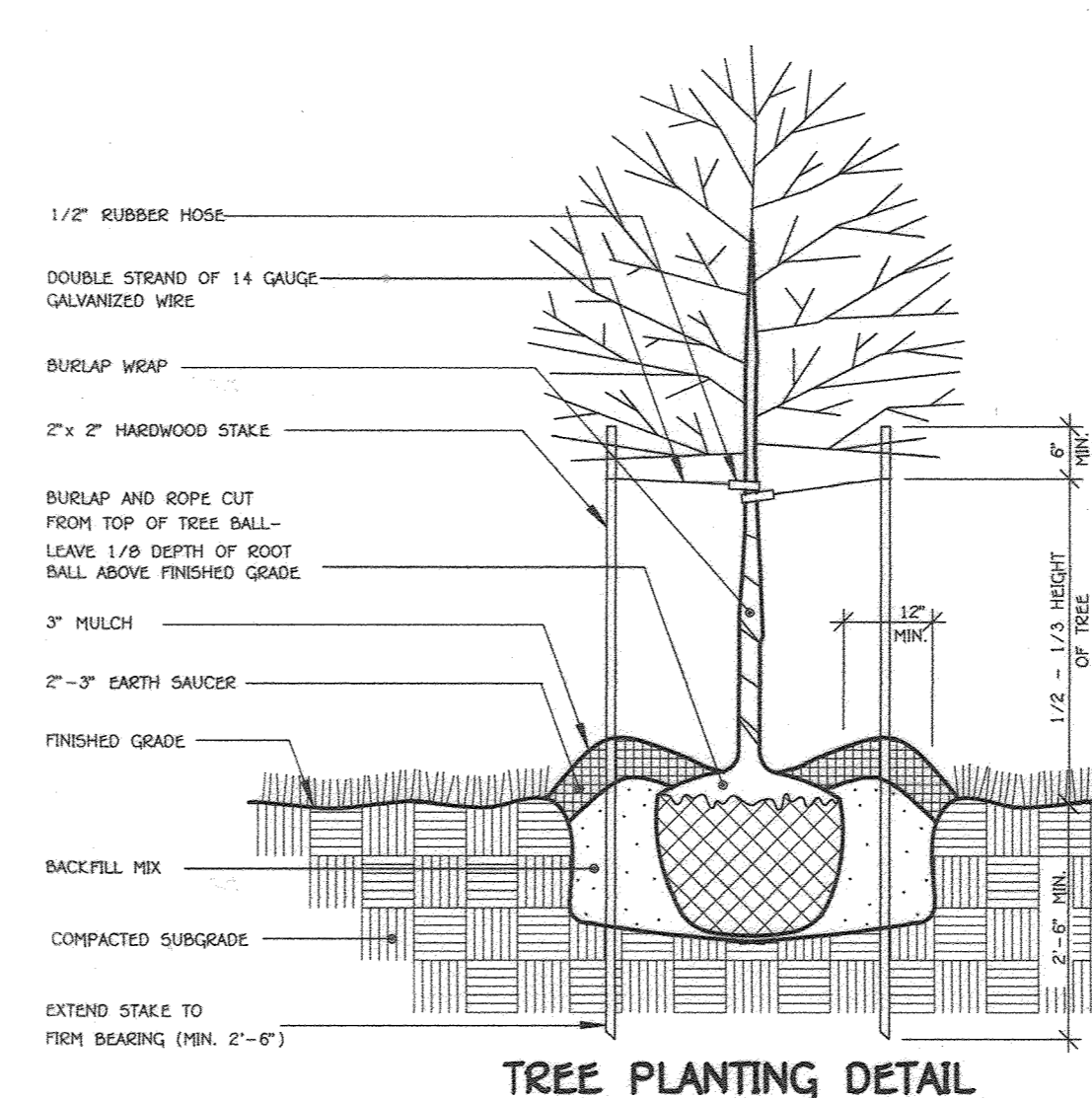
SCHEDULE B PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	110
NUMBER OF TREES REQUIRED (1/20 SP)	6
NUMBER OF TREES PROVIDED	
SHADE TREES	10
OTHER TREES (2:1 SUBSTITUTION)	-



#### EVERGREEN PLANTING DETAIL



#### SHRUB PLANTING DETAIL



#### TREE PLANTING DETAIL

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461 - 2893

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*[Signature]*  
STEPHANIE J. TUTTE, RLA, P.E., LEED AP BCAD  
9/1/20  
DATE

DATE	DESCRIPTION	REVISION BLOCK
7/7/22	REVISED SHEET NUMBER AND PLANT LIST	
10-16-20		
10-8-20		

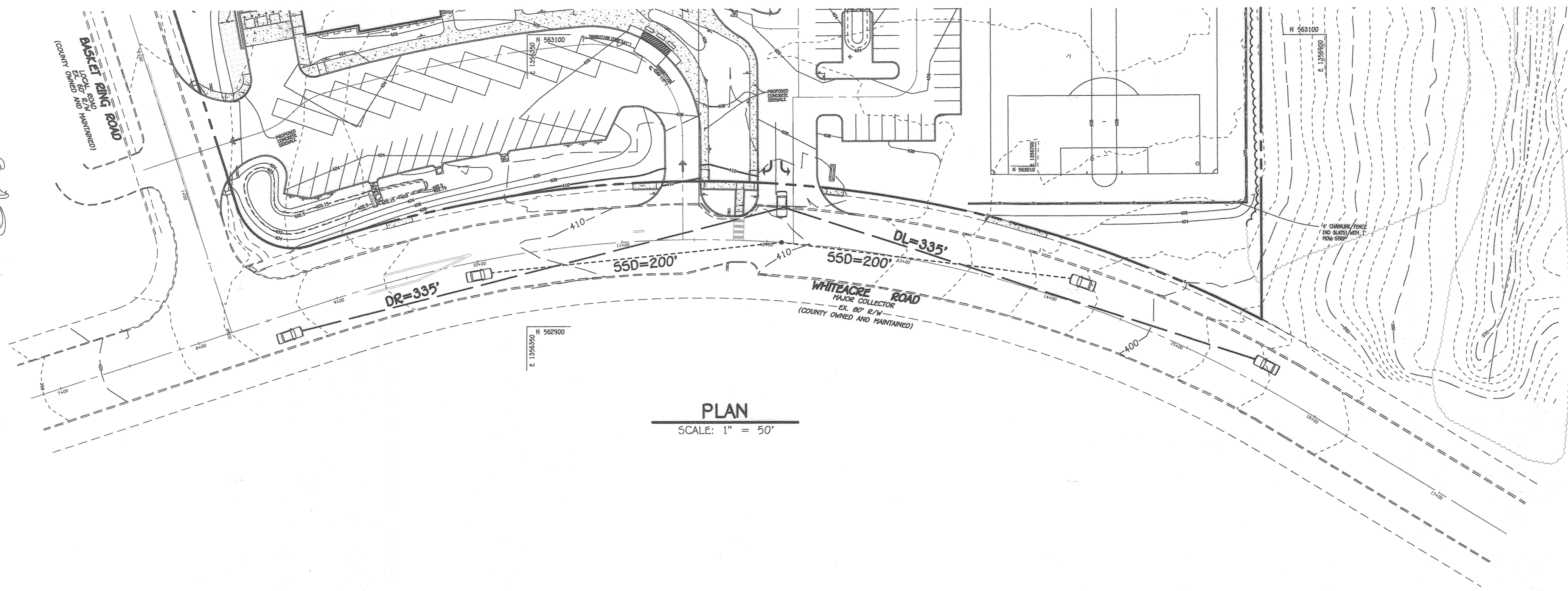
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203

Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA				
ELEMENTARY SCHOOL	4/1				
PARCEL					
283					
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	E. 03	SEWER CODE	5580800		

LANDSCAPE NOTES AND DETAILS  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
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SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 24 OF 40

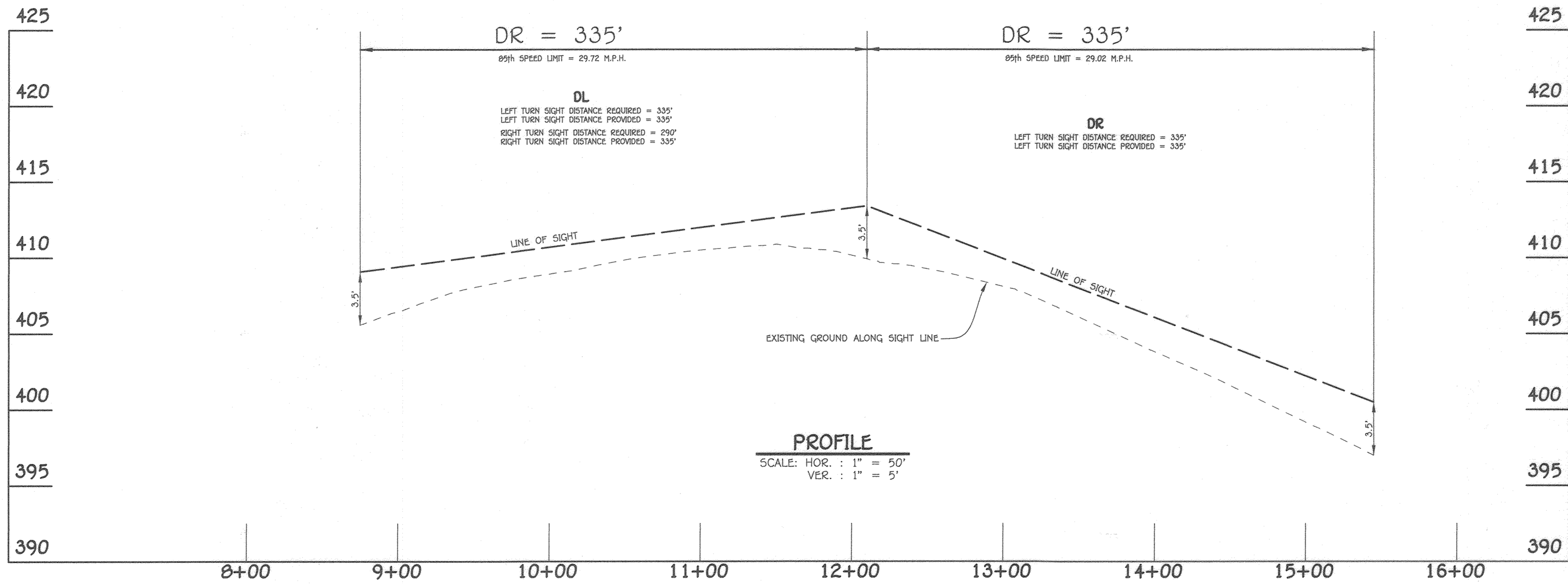


SYMBOL	DESCRIPTION
398	EXISTING CONTOUR 2' INTERVAL
400	EXISTING CONTOUR 10' INTERVAL
	EXISTING SAN. SEWER LINE
	EXISTING STORM DRAIN LINE
	EXISTING WATER LINE
	EXISTING ELECTRIC LINE
	EXISTING CABLE LINE
	EXISTING GAS LINE
	EXISTING FIBER OPTIC
	EXISTING FENCE
398	PROPOSED CONTOUR 2' INTERVAL
400	PROPOSED CONTOUR 10' INTERVAL
+ 403.50	SPOT ELEVATION
	PROPOSED CONCRETE WALK
	PROPOSED MACADAM PAVING
	EXISTING TREELINE
	PROPOSED TREELINE
8" W	PROPOSED PUBLIC WATER
8" W	PROPOSED PRIVATE WATER
18" RCP	PROPOSED STORM DRAIN
18" S	PROPOSED PRIVATE SEWER
8" S	PROPOSED PUBLIC SEWER
	PROPOSED RIPRAP
	PROPOSED GRASS PAVERS
AA	PROPOSED LIGHT POLE

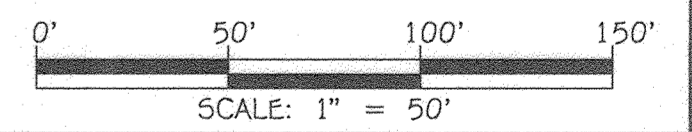


PLAN  
SCALE: 1" = 50'

WHITEACRE ROAD  
MAJOR COLLECTOR  
POSTED SPEED LIMIT = 25 M.P.H.



PROFILE  
SCALE: HOR. : 1" = 50'  
VER. : 1" = 5'



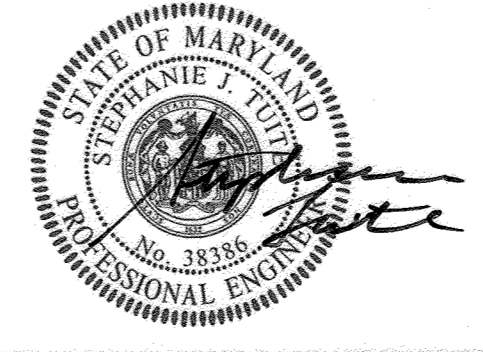
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DATE 9/17/20

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*Stephanie J. Tuitt*  
STEPHANIE J. TUITE, R.L.A., P.E., LEED AP BC&O  
9/17/20  
DATE

7/7/22	REVISED SHEET NUMBER
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	10-16-20 Date
Director, Department of Planning and Zoning	
<i>[Signature]</i>	10-2-20 Date
Chief, Division of Land Development	
<i>[Signature]</i>	10-2-20 Date
Chief, Development Engineering Division	

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
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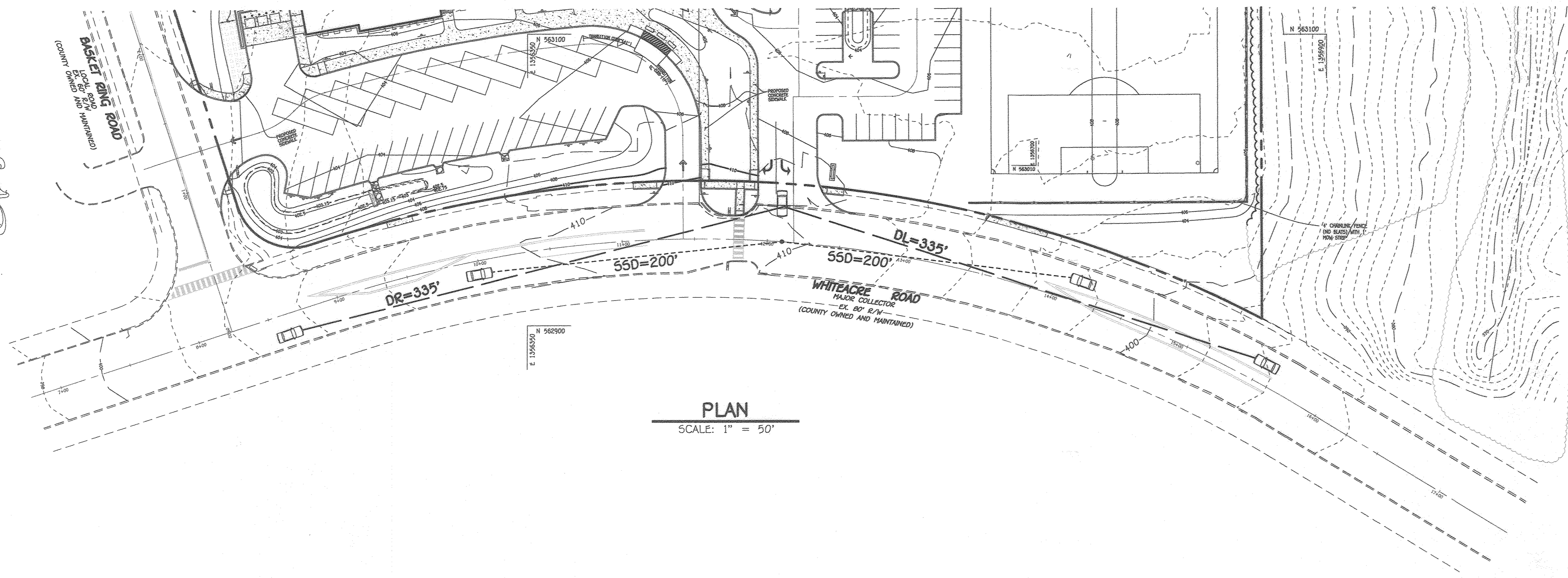


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Parcel Number	Street Address				
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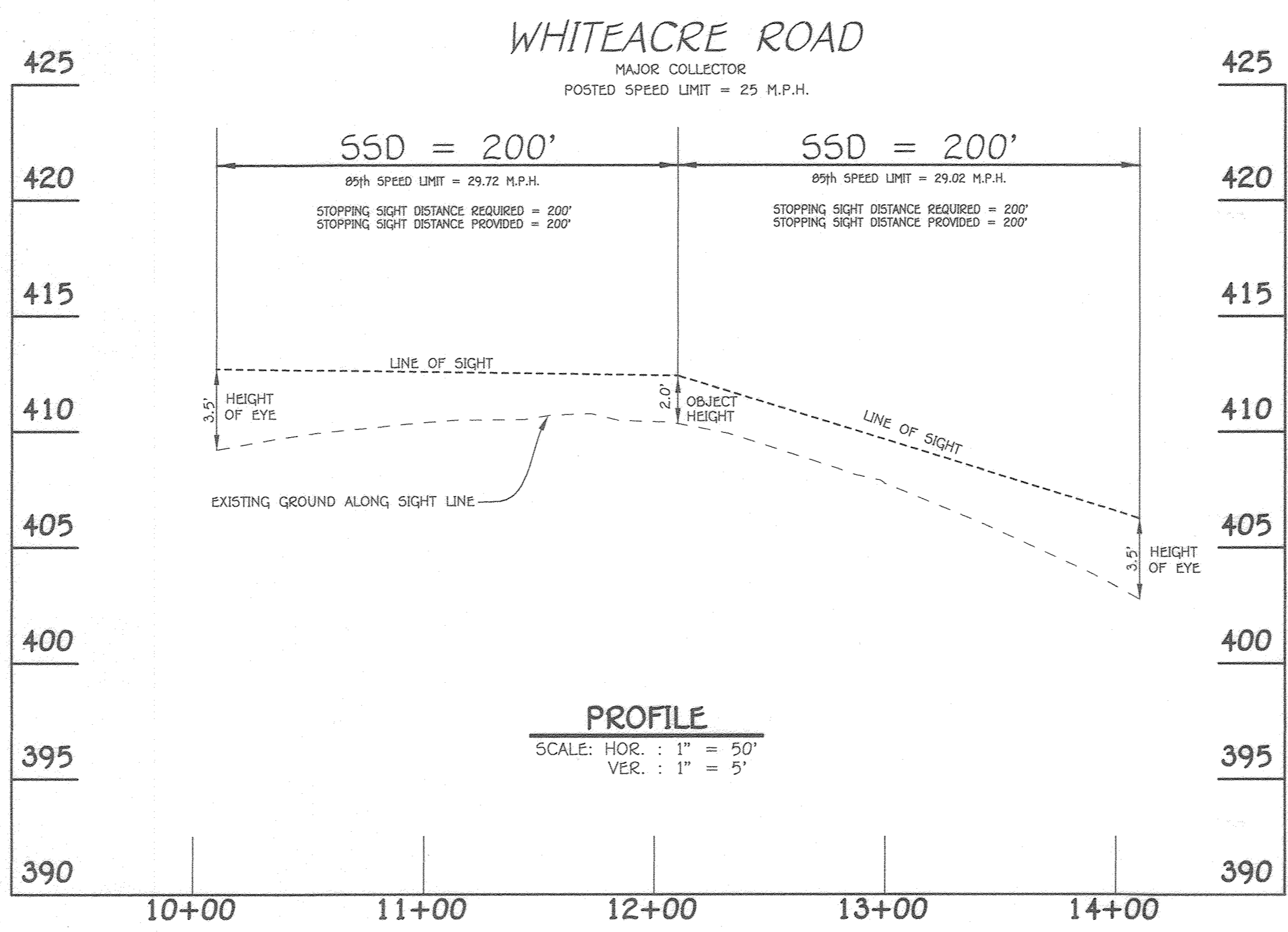
PLAN AND PROFILE - WHITEACRE ROAD  
INTERSECTION SIGHT DISTANCE

VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 25 OF 40

SYMBOL	DESCRIPTION
398	EXISTING CONTOUR 2' INTERVAL
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	PROPOSED TREELINE
8" W	PROPOSED PUBLIC WATER
8" W	PROPOSED PRIVATE WATER
18" RCP	PROPOSED STORM DRAIN
18" S	PROPOSED PRIVATE SEWER
8" S	PROPOSED PUBLIC SEWER
	PROPOSED RIPRAP
	PROPOSED GRASS PAVERS
AA	PROPOSED LIGHT POLE

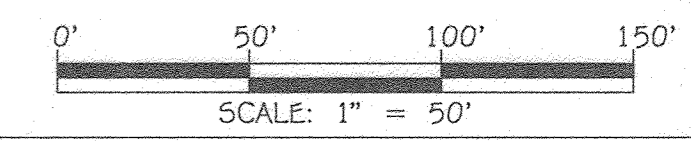


PLAN  
SCALE: 1" = 50'



WHITEACRE ROAD  
MAJOR COLLECTOR  
POSTED SPEED LIMIT = 25 M.P.H.

PROFILE  
SCALE: HOR. : 1" = 50'  
VER. : 1" = 5'



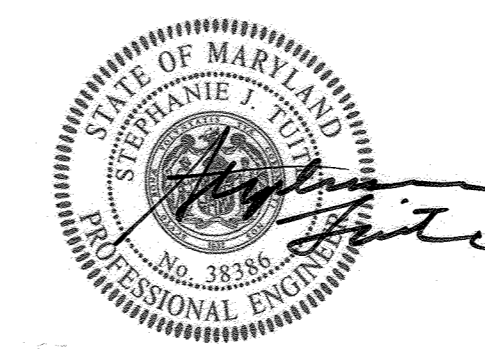
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE: 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21142  
(410) 461-2295

"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuite*  
STEPHANIE J. TUITE, P.L.A., P.E., LEED AP BC&O  
9/17/20  
DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Director - Department of Planning and Zoning  
Chief, Division of Land Development  
Chief, Development Engineering Division  
16-16-20  
10-2-20

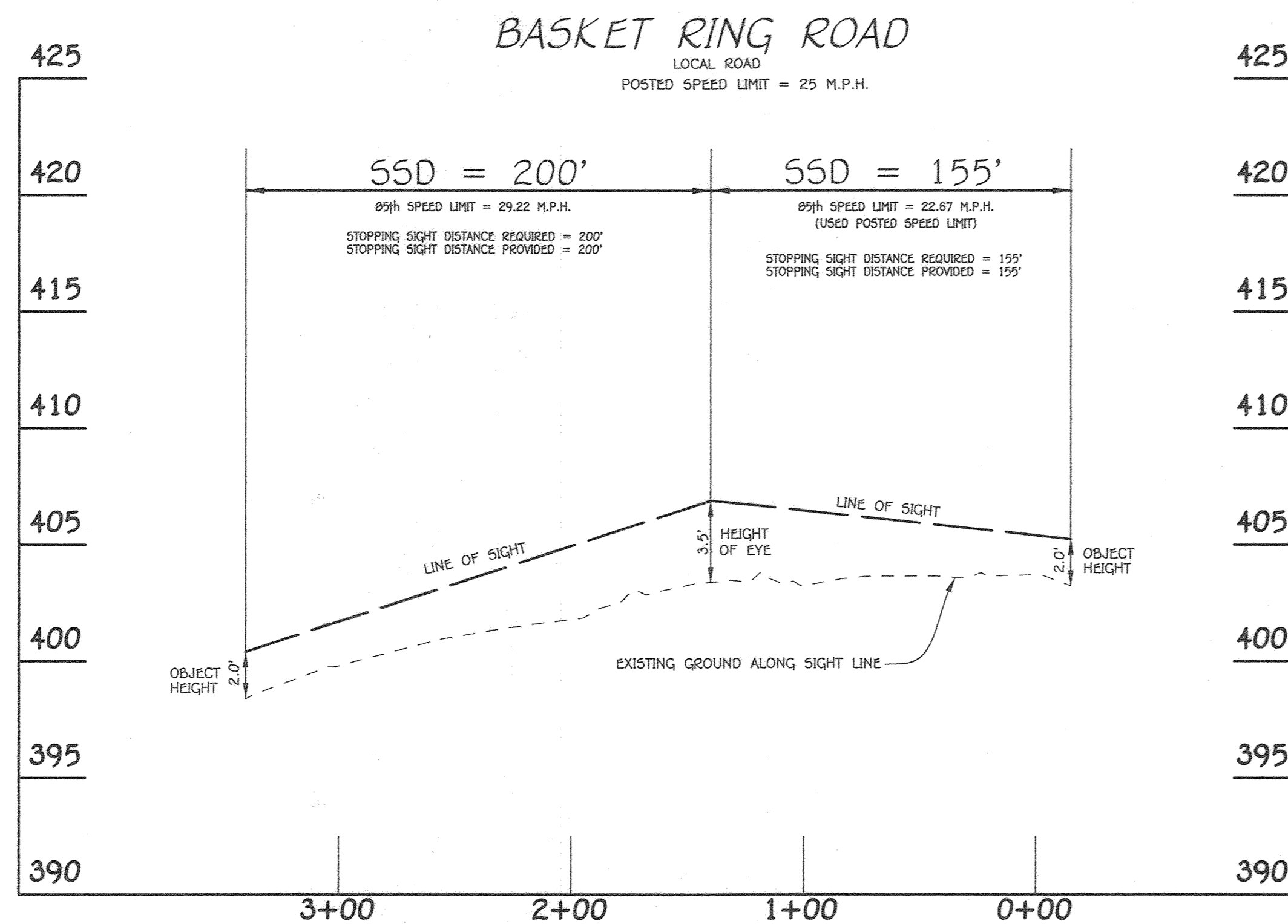
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643 / F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE			SEWER CODE		
E 03			5580800		

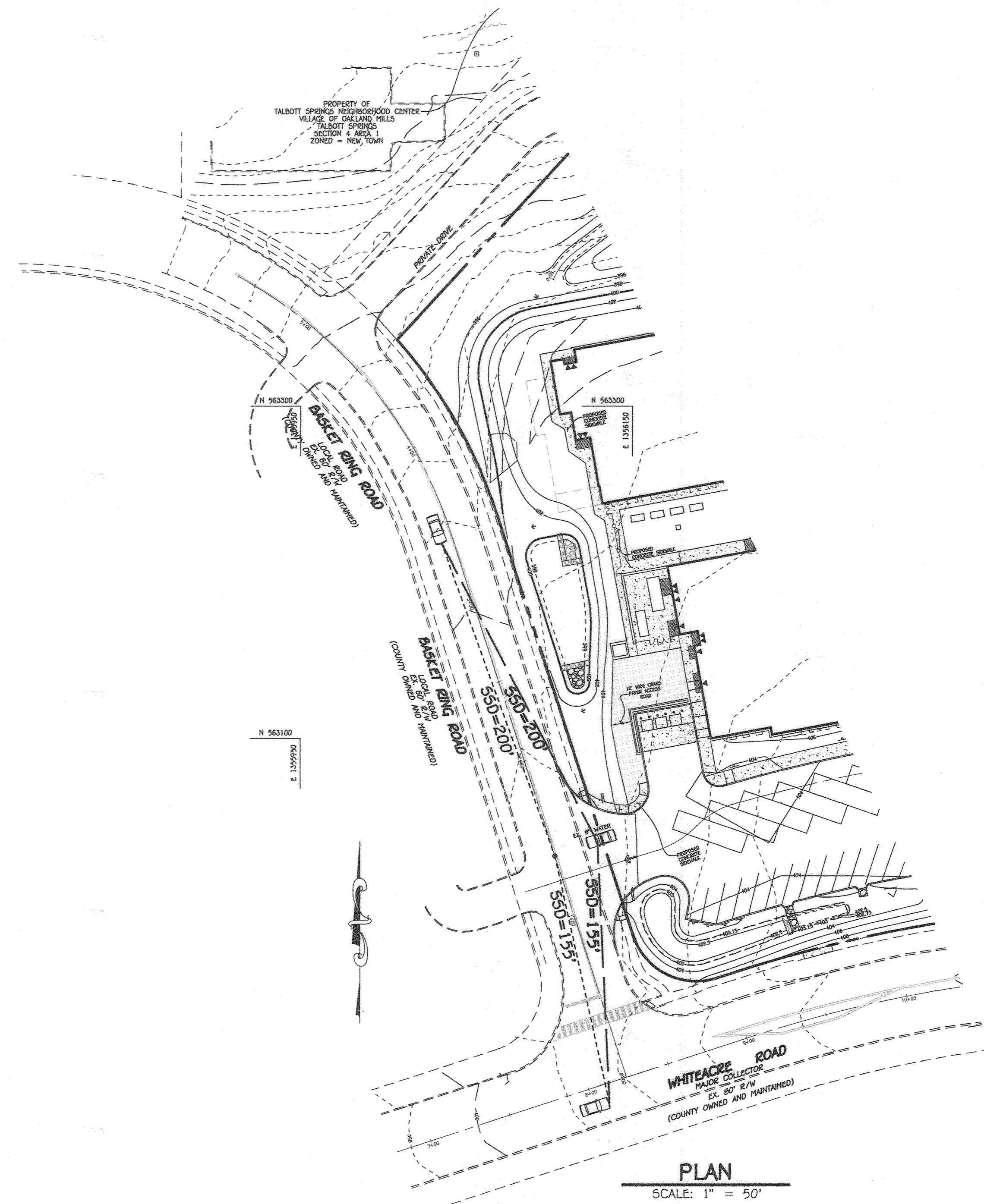
PLAN AND PROFILE - WHITEACRE ROAD  
STOPPING SIGHT DISTANCE  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 26 OF 40

LEGEND	
SYMBOL	DESCRIPTION
398	EXISTING CONTOUR 2' INTERVAL
400	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING ELECTRIC LINE
---	EXISTING CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FIBER OPTIC
---	EXISTING FENCE
398	PROPOSED CONTOUR 2' INTERVAL
400	PROPOSED CONTOUR 10' INTERVAL
+ 403.50	SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
P W	PROPOSED PUBLIC WATER
P W	PROPOSED PRIVATE WATER
18" RCP	PROPOSED STORMDRAIN
P S	PROPOSED PRIVATE SEWER
P S	PROPOSED PUBLIC SEWER
---	PROPOSED RIPRAP
---	PROPOSED GRASS PAVERS
□ AA	PROPOSED LIGHT POLE



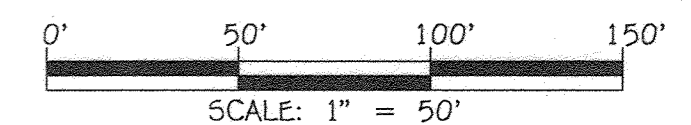
**PROFILE**

SCALE: HOR. : 1" = 50'  
VER. : 1" = 5'



**PLAN**

SCALE: 1" = 50'



APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2855

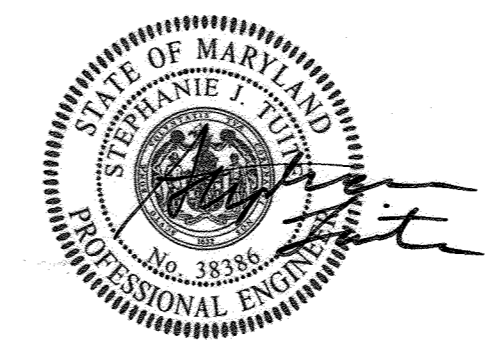
"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: JANUARY 12, 2022."

*Stephanie J. Tuite*  
STEPHANIE J. TUITE, R.L.A., P.E., LEED AP BC&O

9/1/20  
DATE

DATE	DESCRIPTION	REVISION BLOCK
7/7/22	REVISED SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>Stephanie J. Tuite</i>	Director - Department of Planning and Zoning	16-16-20 Date
<i>Daniel Lubeley</i>	Chief, Division of Land Development	10-2-20 Date
<i>Stephanie J. Tuite</i>	Chief, Development Engineering Division	

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203

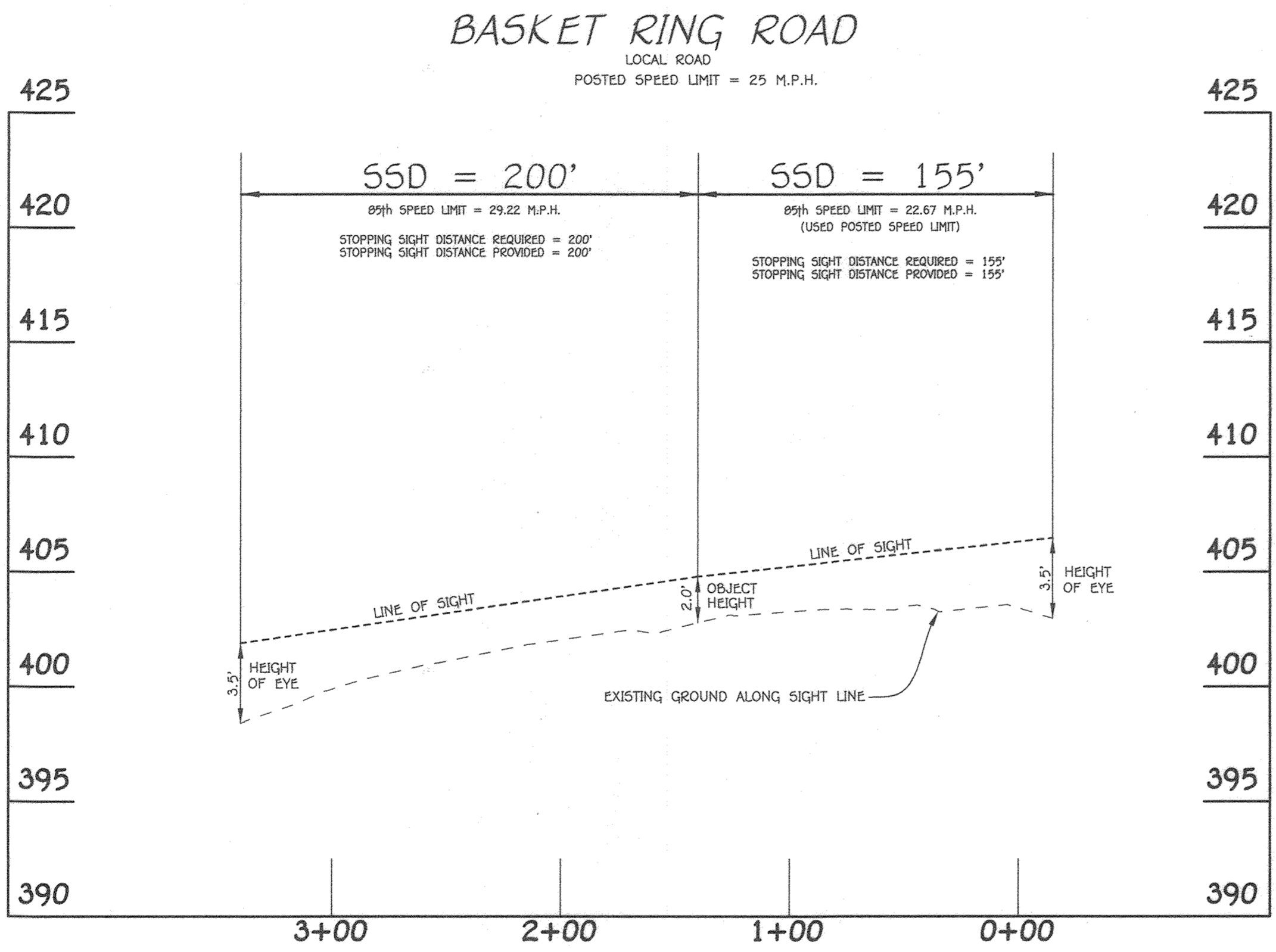
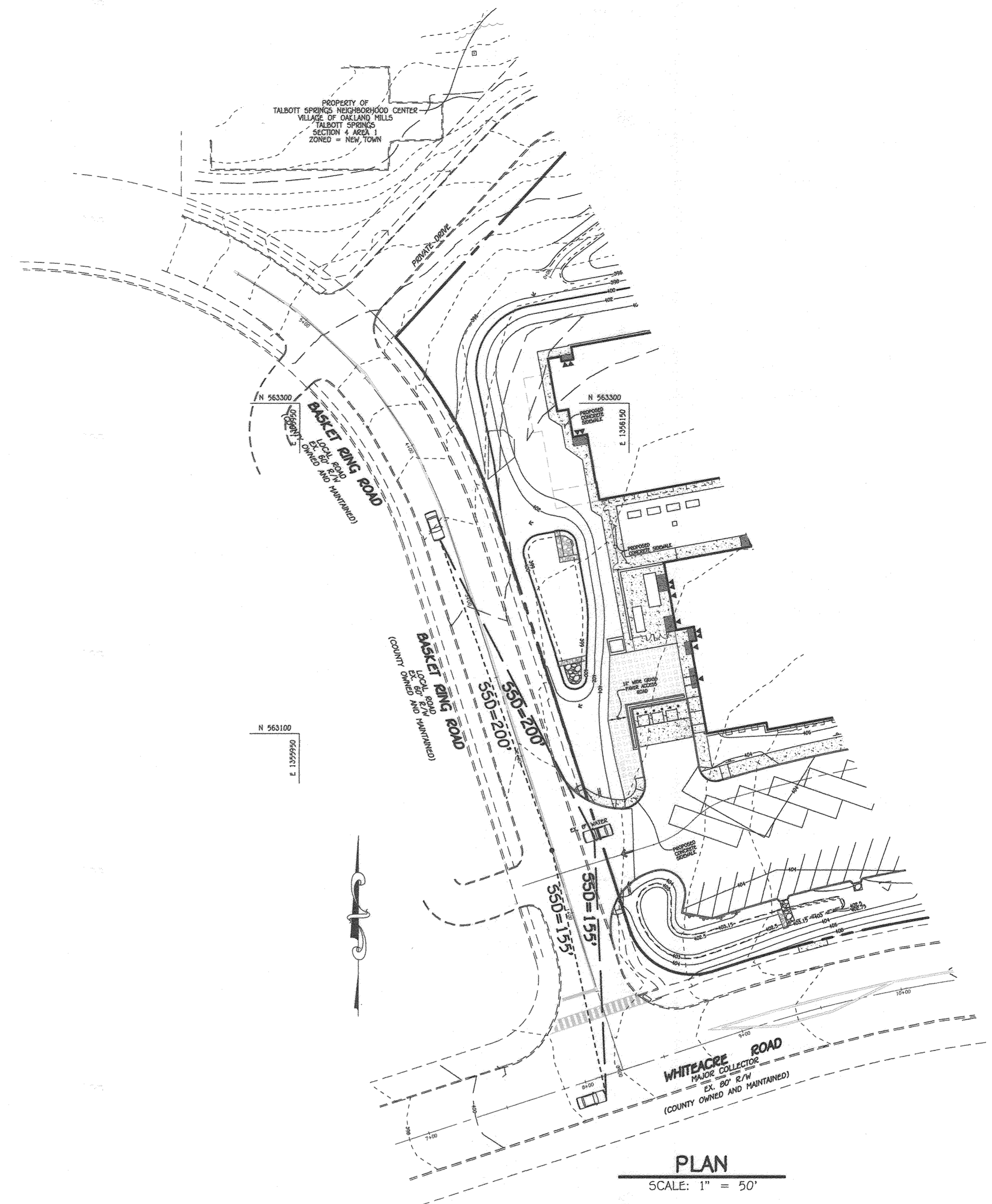


Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA				
ELEMENTARY SCHOOL	4/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	E 03	SEWER CODE	5580800		

**PLAN AND PROFILE - BASKET RING ROAD INTERSECTION SIGHT DISTANCE**

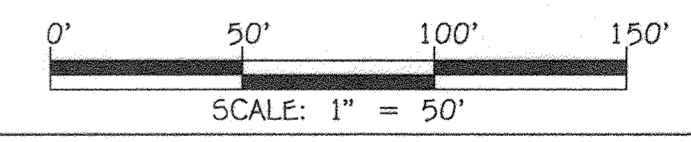
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 27 OF 40

SYMBOL	DESCRIPTION
398	EXISTING CONTOUR 2' INTERVAL
400	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING ELECTRIC LINE
C	EXISTING CABLE LINE
G	EXISTING GAS LINE
FO	EXISTING FIBER OPTIC
---	EXISTING FENCE
398	PROPOSED CONTOUR 2' INTERVAL
400	PROPOSED CONTOUR 10' INTERVAL
+ 403.50	SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
8" W	PROPOSED PUBLIC WATER
8" P	PROPOSED PRIVATE WATER
18" RCP	PROPOSED STORMDRAIN
8" S	PROPOSED PRIVATE SEWER
8" S	PROPOSED PUBLIC SEWER
---	PROPOSED RIPRAP
---	PROPOSED GRASS PAVERS
□+M	PROPOSED LIGHT POLE



**PROFILE**  
SCALE: HOR. : 1" = 50'  
VER. : 1" = 5'

**PLAN**  
SCALE: 1" = 50'



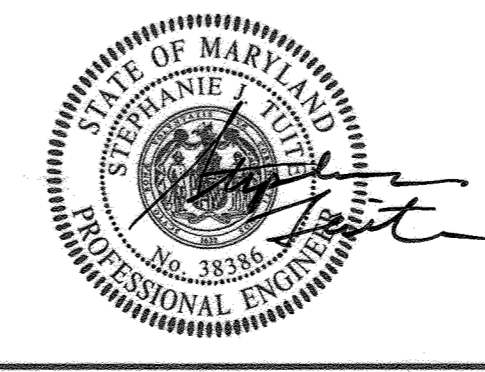
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21045  
(410) 461-2955

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephan Jute*  
STEPHAN J. JUTE, R.L.A., P.E., LEED AP BC&D  
DATE 9/1/20

DATE	DESCRIPTION	REVISION BLOCK
7/7/22	REVISED SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>Allyson</i>	Director, Department of Planning and Zoning	16-16-20 Date
<i>Stephan Jute</i>	Chief, Division of Land Development	10/16/20 Date
<i>Stephan Jute</i>	Chief, Development Engineering Division	10-2-20 Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

**PLAN AND PROFILE - BASKET RING ROAD STOPPING SIGHT DISTANCE**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 28 OF 40

LEGEND	
SYMBOL	DESCRIPTION
	BUILDING RESTRICTION LINE
	PROPOSED FENCE
	PROPOSED CONCRETE WALK
	PROPOSED MACADAM PAVING
	PROPOSED LIGHT POLE
	PROPOSED ROAD OVERLAY
	DETAIL #
	PAGE # DETAIL SHOWN ON

**NOTES:**

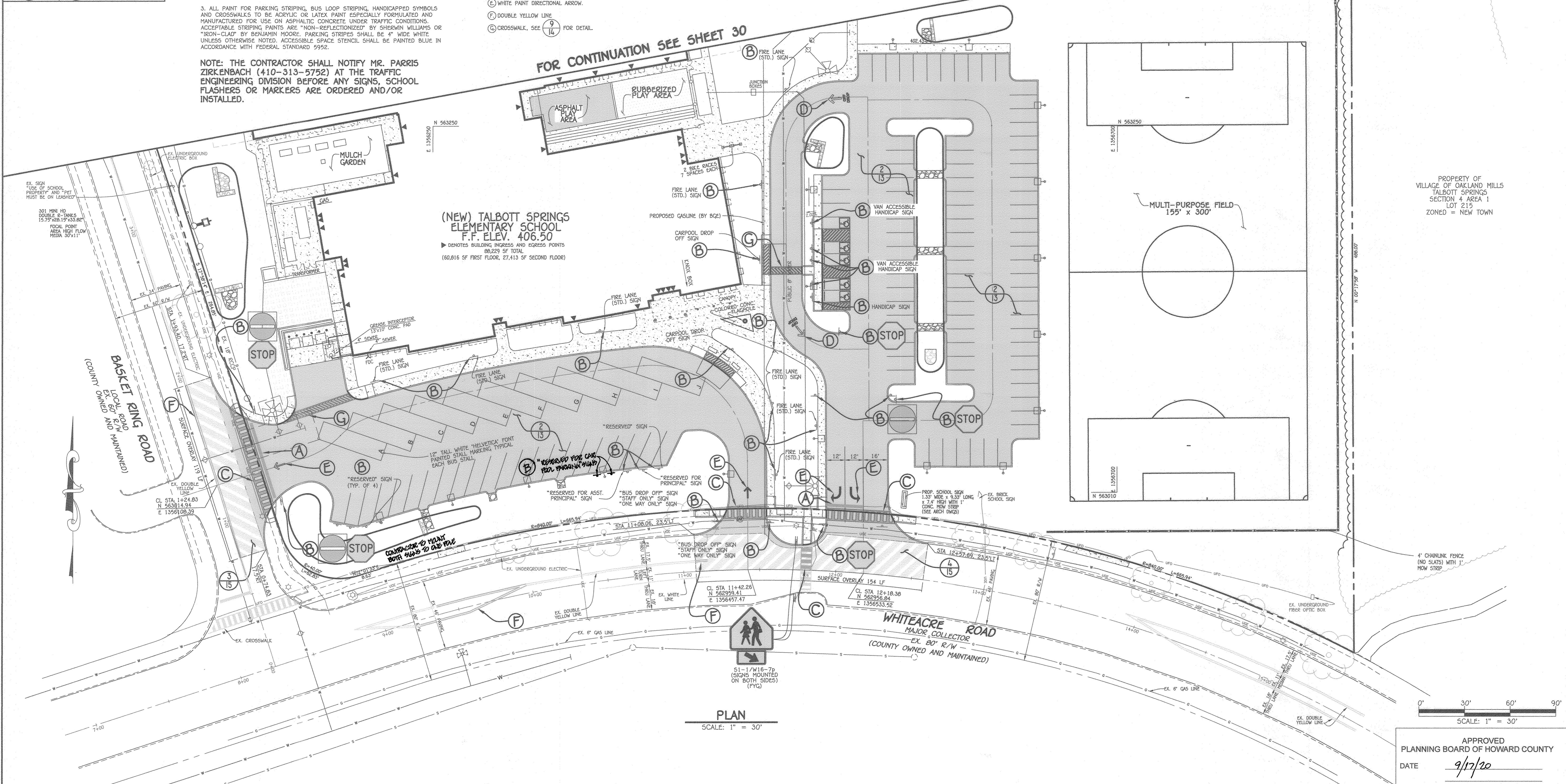
- ALL SIGN LOCATIONS AND PAVEMENT MARKINGS TO BE INSTALLED IN THE COUNTY RIGHT-OF-WAY OR AT A COUNTY INTERSECTION MUST BE APPROVED BY THE HOWARD COUNTY TRAFFIC DIVISION BY MR. PARRIS ZIRKENBACH (410-313-5752).
- ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL 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-REFLECTIONIZED" 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 5992.

NOTE: THE CONTRACTOR SHALL NOTIFY MR. PARRIS ZIRKENBACH (410-313-5752) AT THE TRAFFIC ENGINEERING DIVISION BEFORE ANY SIGNS, SCHOOL FLASHERS OR MARKERS ARE ORDERED AND/OR INSTALLED.

**PAVEMENT MARKING LEGEND**

- (A) INSTALL 24" SOLID WHITE PAVEMENT MARKING FOR STOP BAR.
- (B) INSTALL GROUND MOUNTED SIGN.
- (C) PEDESTRIAN CROSSWALK. THE CROSSWALK SHALL BE INSTALLED WITH THERMOPLASTIC OR PERFORMED, HEAT APPLIED, THERMOPLASTIC.
- SEE 7/13 FOR DETAIL.
- (D) STUDENT DROPOFF, SEE 7/14 FOR DETAIL.
- (E) WHITE PAINT DIRECTIONAL ARROW.
- (F) DOUBLE YELLOW LINE.
- (G) CROSSWALK, SEE 9/16 FOR DETAIL.

FOR CONTINUATION SEE SHEET 30



(NEW) TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
F.F. ELEV. 406.50  
► DENOTES BUILDING INGRESS AND EGRESS POINTS  
00,229 SF TOTAL  
(60,816 SF FIRST FLOOR, 27,413 SF SECOND FLOOR)

PLAN  
SCALE: 1" = 30'

SCALE: 1" = 30'

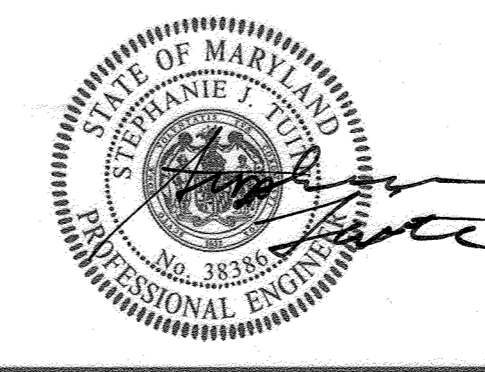
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
DUBLITT CITY, MARYLAND 21046  
(410) 461-2225

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38306, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuite*  
STEPHANIE J. TUITE, R.I.A., P.E., LEED AP BC&D  
9/11/20  
DATE

DATE	DESCRIPTION	REVISION BLOCK
7/7/22	REVISED SHEET NUMBER	
3/9/21	ADDED 24" STOP BAR	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>Stephanie J. Tuite</i>	Director - Department of Planning and Zoning	10-16-20 Date
<i>Stephanie J. Tuite</i>	Chief, Department of Land Development	colutso Date
<i>Stephanie J. Tuite</i>	Chief, Department Engineering Division	10-2-20 Date

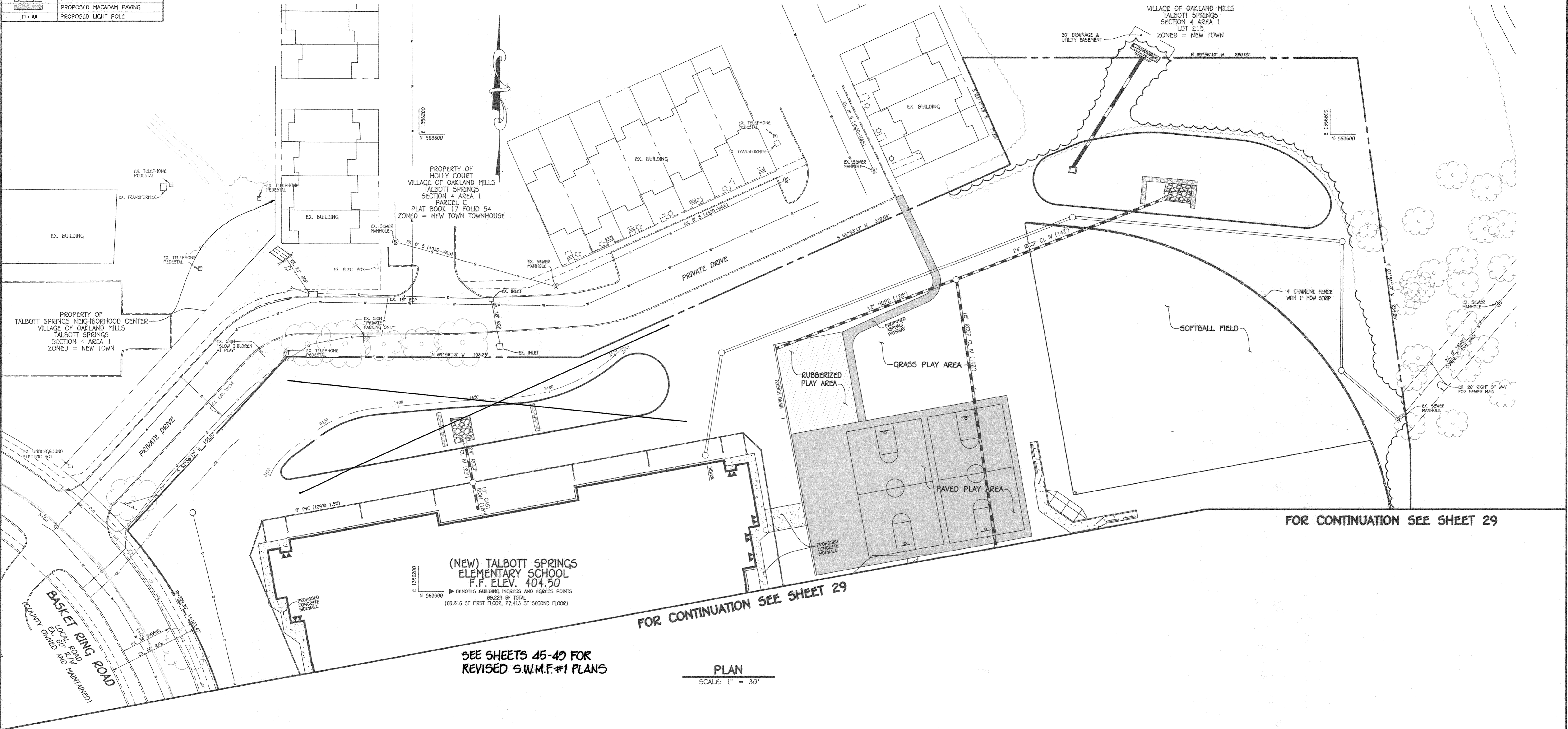
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT: ELEMENTARY SCHOOL	
SECTION/AREA: 4/1	PARCEL: 283
PLAT NOS.: L 643/ F. 62	BLOCK NO.: 3
ZONE: NEW TOWN	TAX MAP: 36
ELEC. DIST.: SIXTH	CENSUS TR.: 606603
WATER CODE: E 03	SEWER CODE: 5508000

PAVEMENT MARKINGS AND SIGNAGE PLAN  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 29 OF 40

SYMBOL	DESCRIPTION
	BUILDING RESTRICTION LINE
	PROPOSED FENCE
	PROPOSED CONCRETE WALK
	PROPOSED MACADAM PAVING
	PROPOSED LIGHT POLE



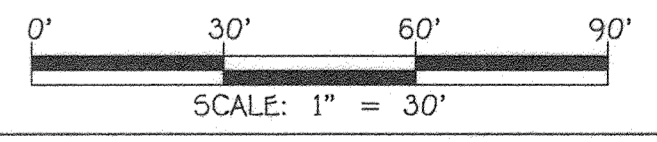
(NEW) TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
F.F. ELEV. 404.50  
98,229 SF TOTAL  
(60,816 SF FIRST FLOOR, 27,413 SF SECOND FLOOR)

FOR CONTINUATION SEE SHEET 29

SEE SHEETS 45-49 FOR  
REVISED S.W.M.F.#1 PLANS

PLAN  
SCALE: 1" = 30'

FOR CONTINUATION SEE SHEET 29



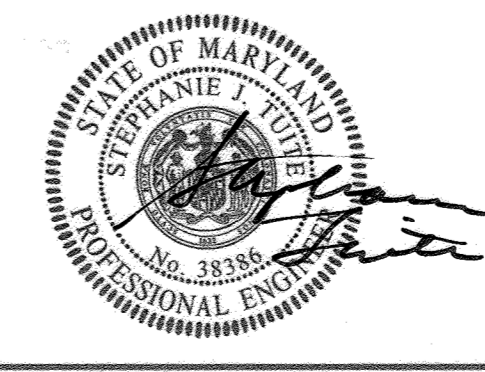
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21041  
(410) 481-2055

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 36386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuttle*  
STEPHANIE J. TUTTLE, RLA, P.E., LEED AP BC&D  
9/1/20  
DATE

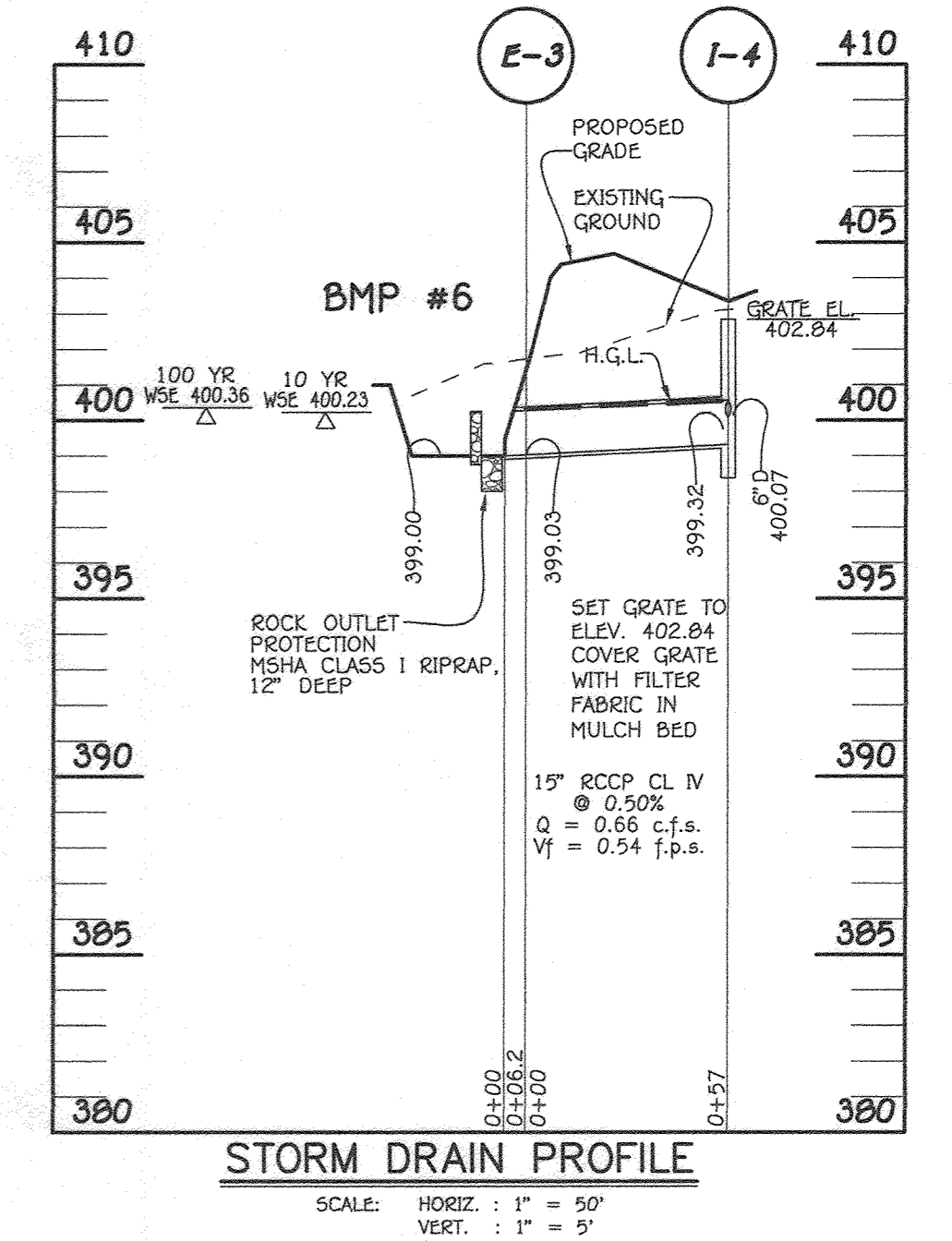
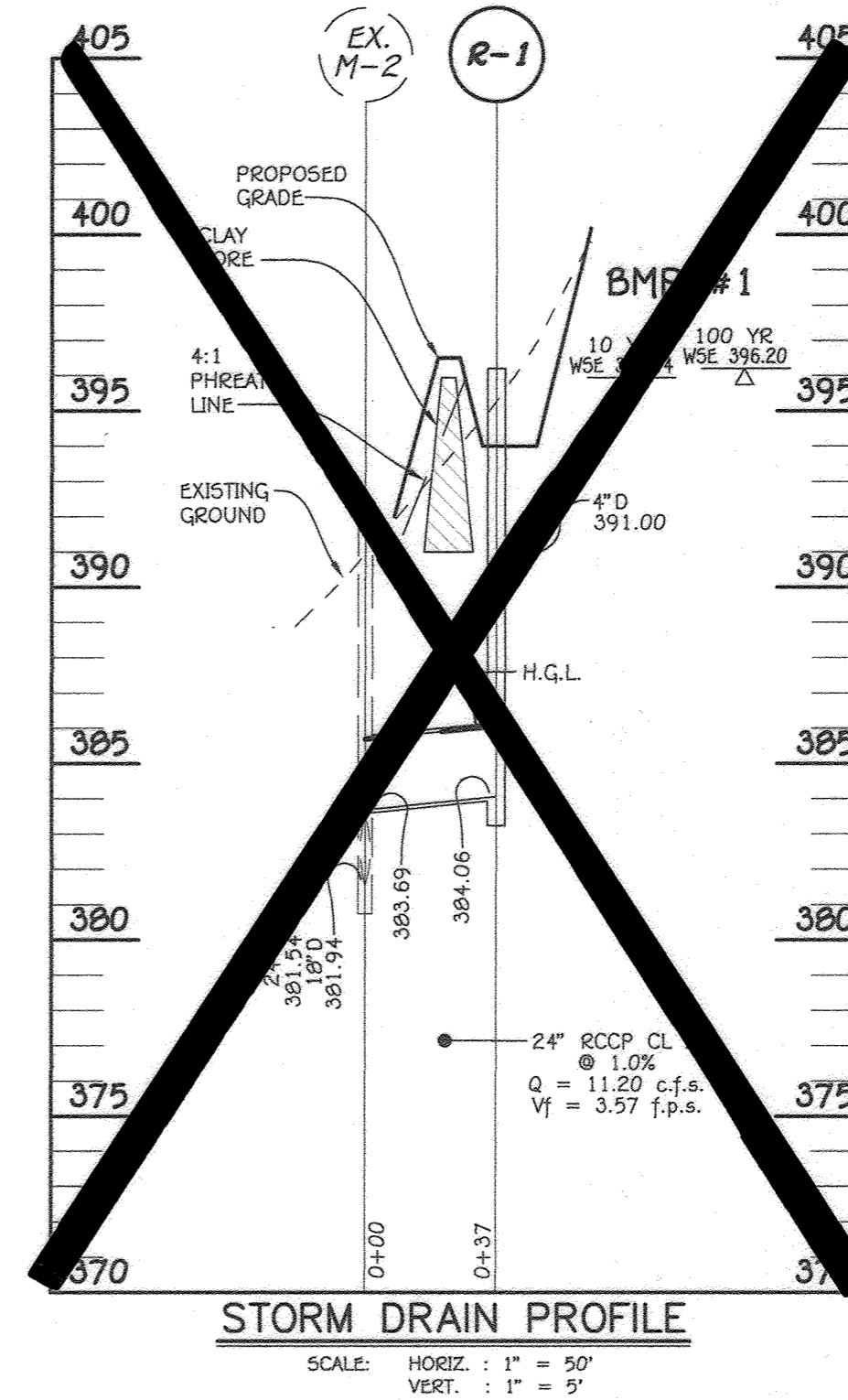
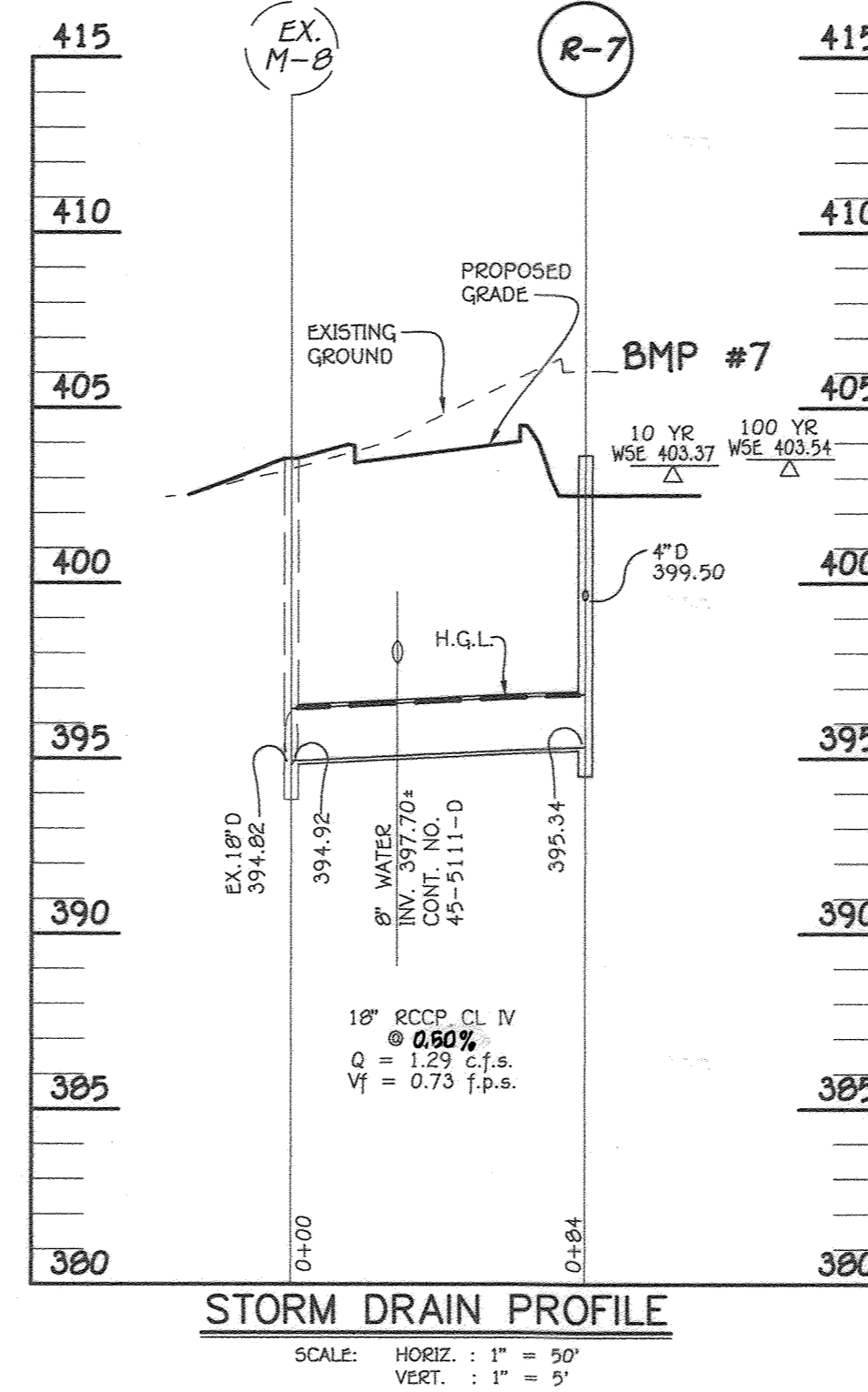
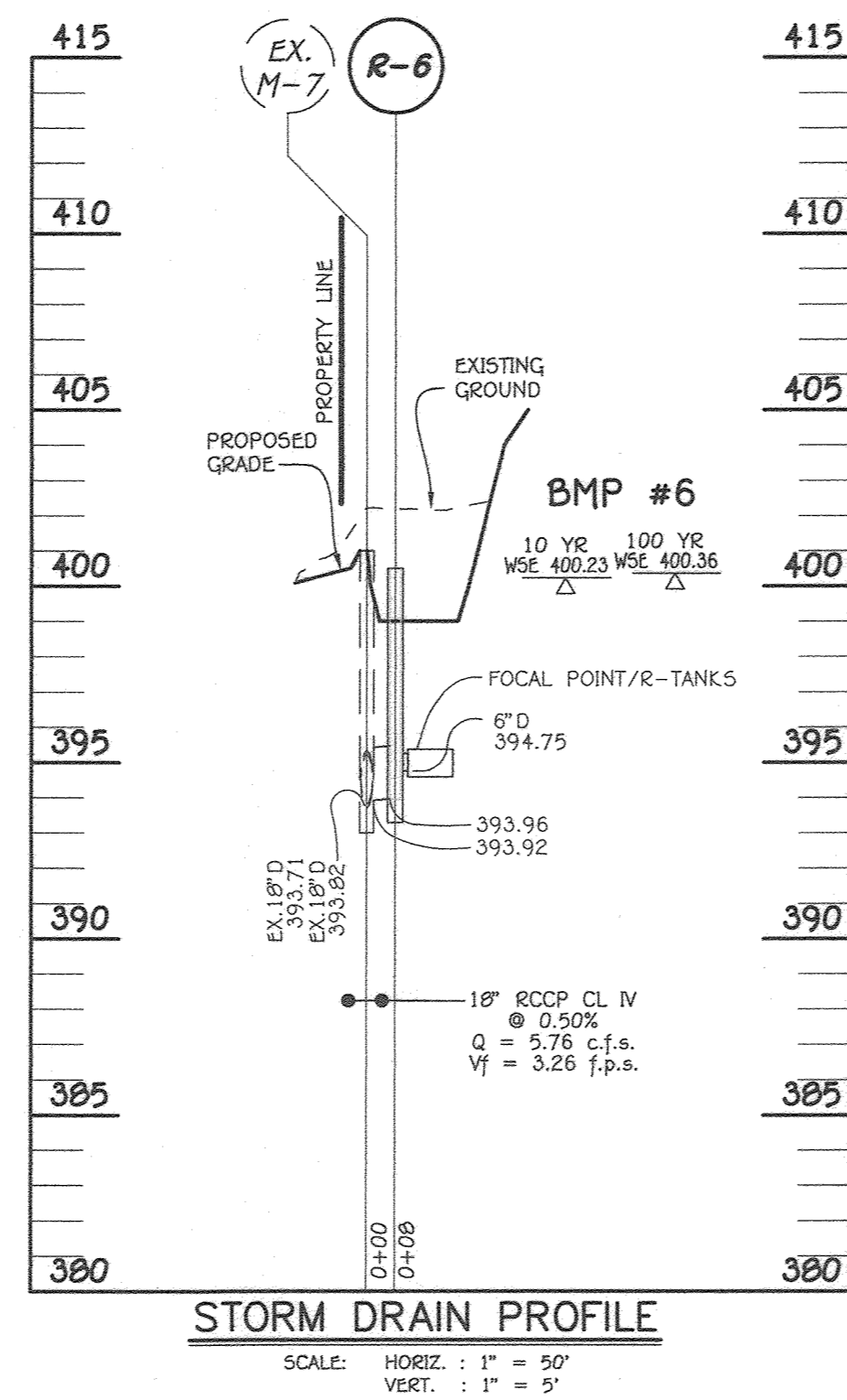
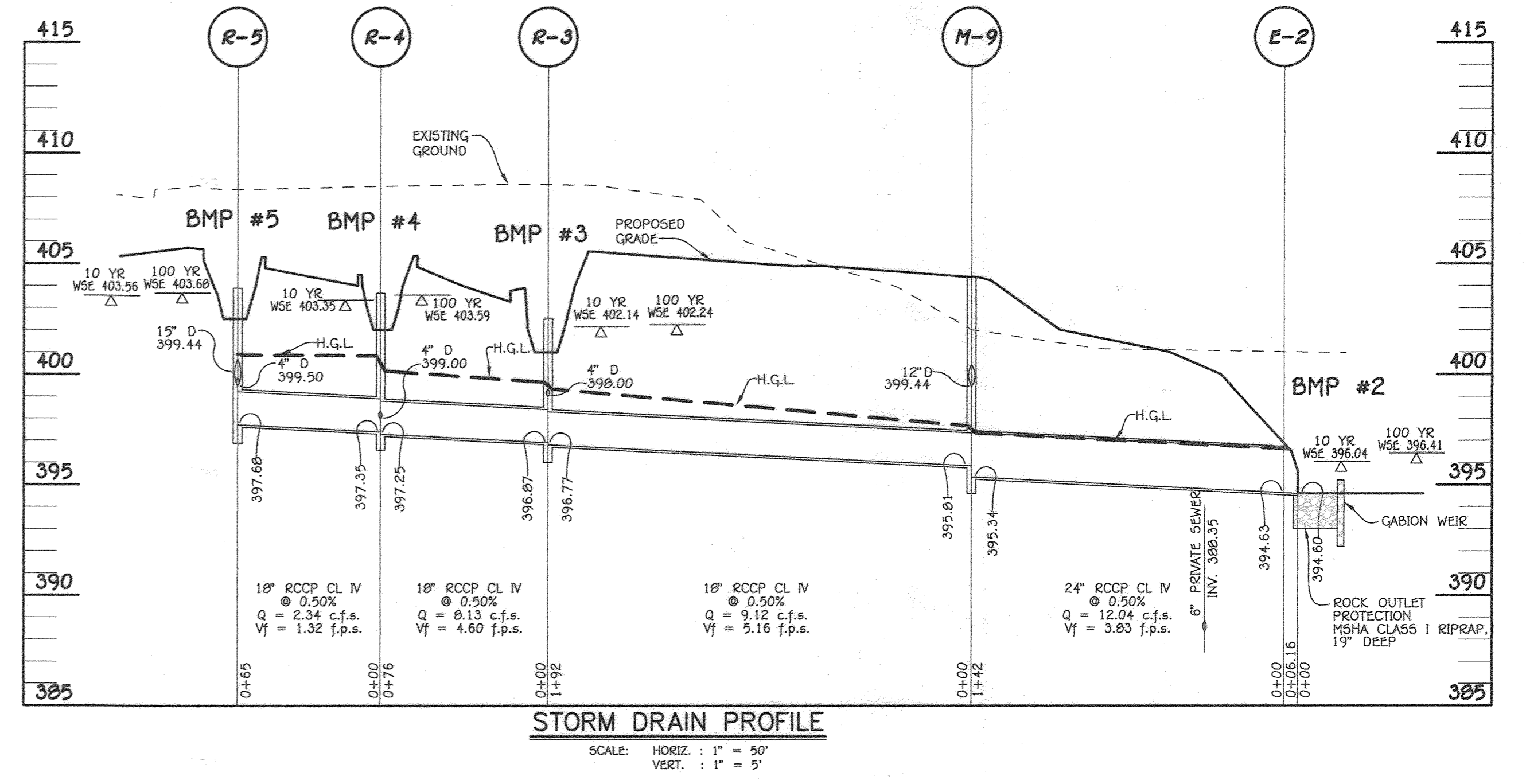
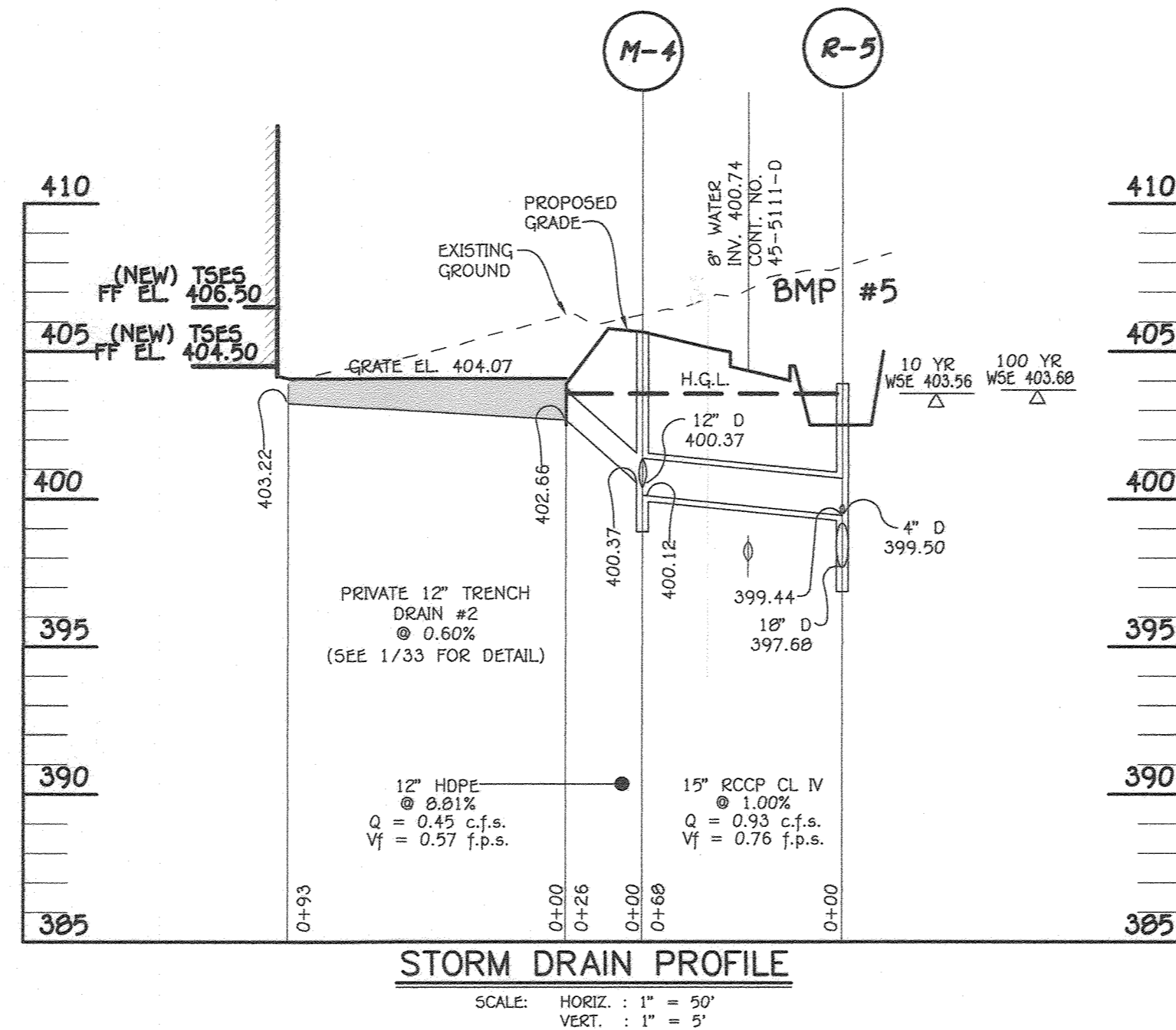
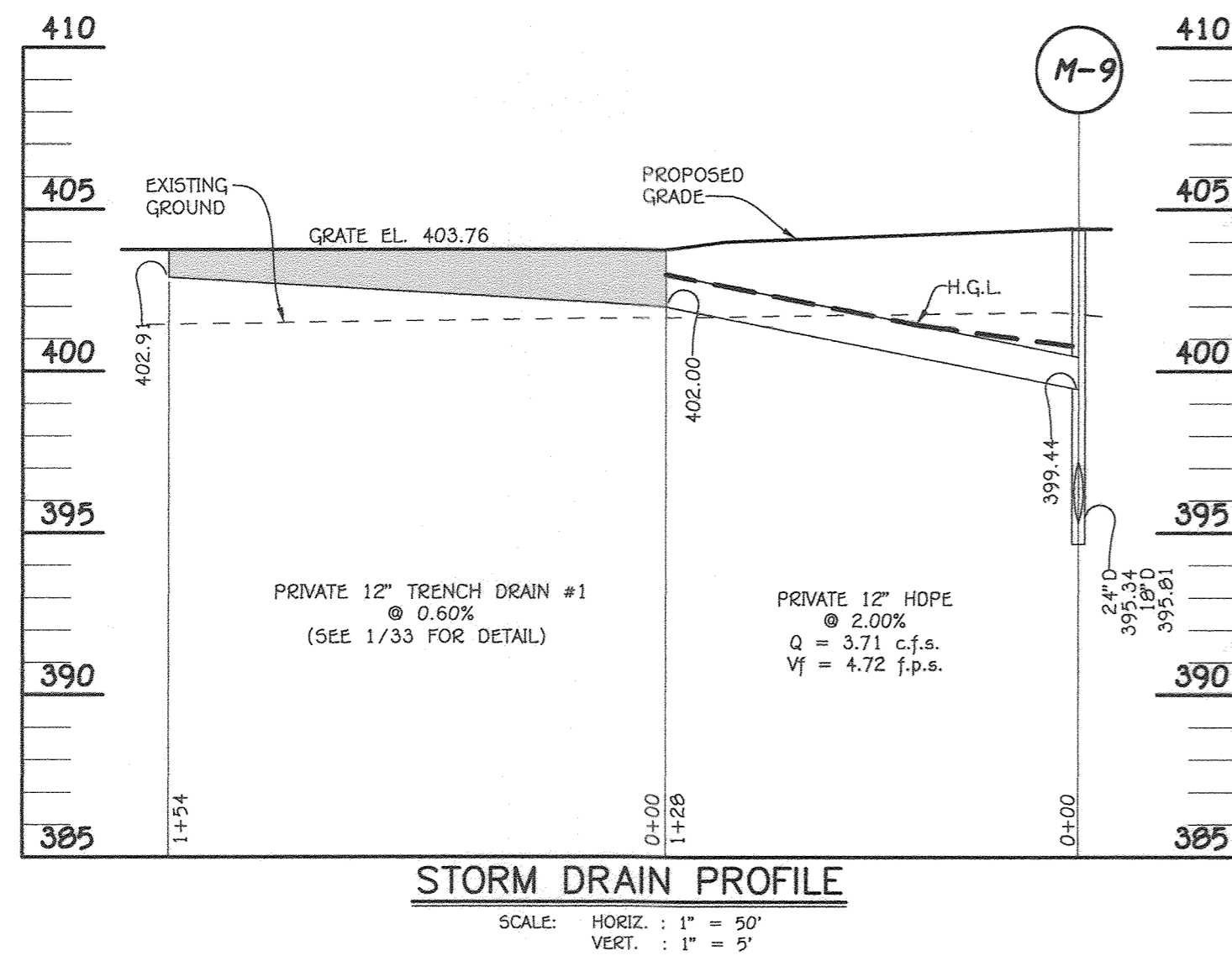
DATE	DESCRIPTION	REVISION BLOCK
7/12/22	REVISED STORM DRAIN OUTFALL AND SHEET NUMBER	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>John Green</i>	Director - Department of Planning and Zoning	10-16-20 Date
<i>John Green</i>	Chief, Division of Land Development	10-2-20 Date
<i>John Green</i>	Chief, Development Engineering Division	

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart			
Parcel Number	Street Address		
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045		
PROJECT	SECTION/AREA	PARCEL	
ELEMENTARY SCHOOL	4/1	283	
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP
L 643/ F. 62	3	NEW TOWN	36
WATER CODE		ELEC. DIST.	CENSUS TR.
E 03		SIXTH	606603
SEWER CODE		5580800	

PAVEMENT MARKINGS AND SIGNAGE PLAN  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 30 OF 40



APPROVED  
 PLANNING BOARD OF HOWARD COUNTY  
 DATE 9/17/20

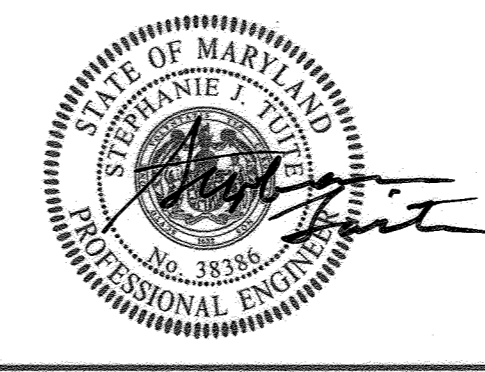
FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21046  
 (410) 461-2855

"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2025"

*Stephan J. Tuite*  
 STEPHAN J. TUITE, RLA, P.E., LEED AP BCSD  
 DATE 9/1/20

DATE	DESCRIPTION	REVISION BLOCK
7/7/22	DELETED PROFILE AND REVISED SHEET NUMBER	
9/9/21	REVISED PIPE SIZES	
	APPROVED: DEPARTMENT OF PLANNING AND ZONING	
	Director, Department of Planning and Zoning	16-16-20
	Chief, Division of Land Development	10-2-20
	Chief, Development Engineering Division	

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 'C'  
 COLUMBIA, MARYLAND 21045  
 Attention: DANIEL LUBELEY  
 410-313-8203

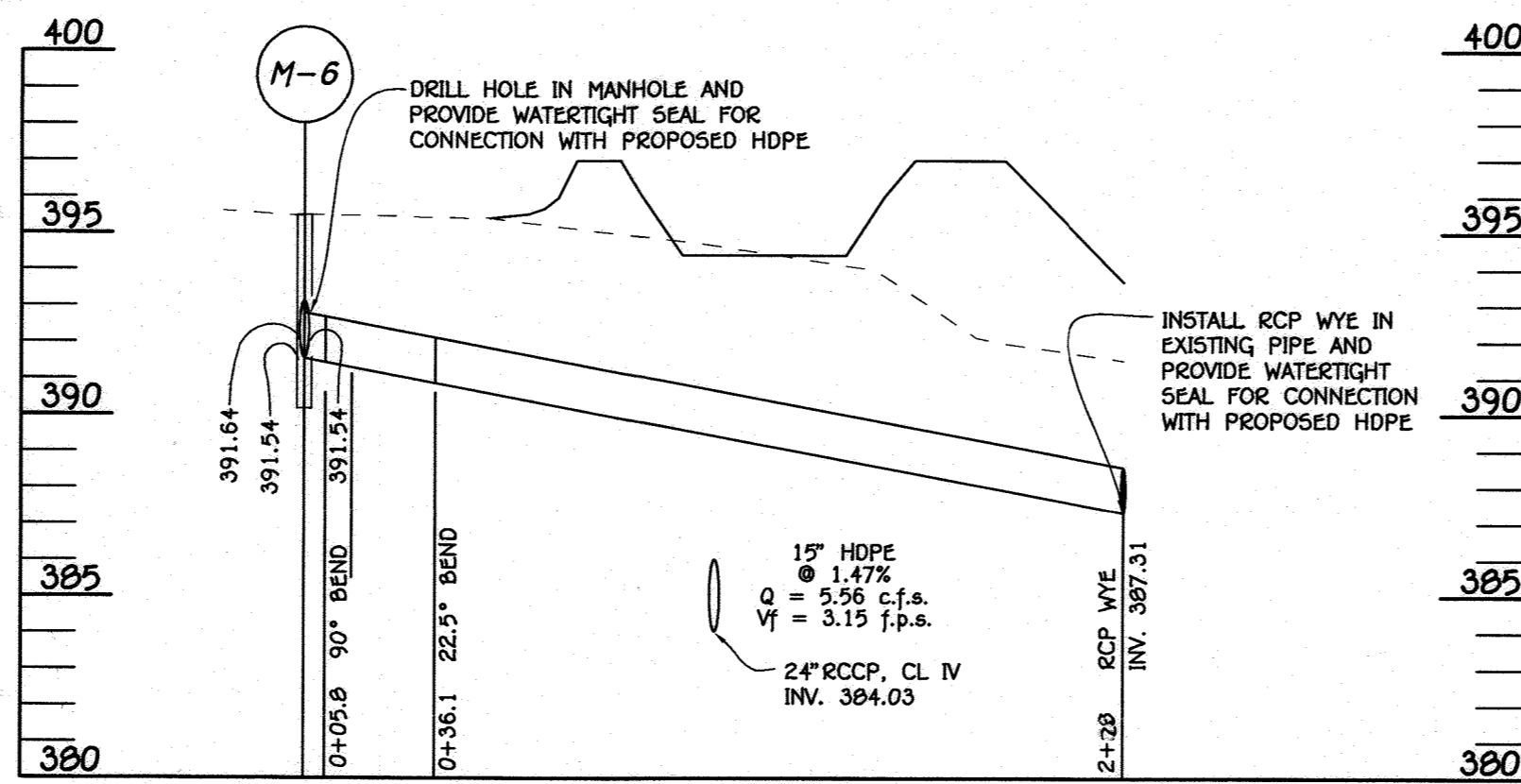


Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA				
ELEMENTARY SCHOOL	4/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

**STORM DRAIN PROFILES**

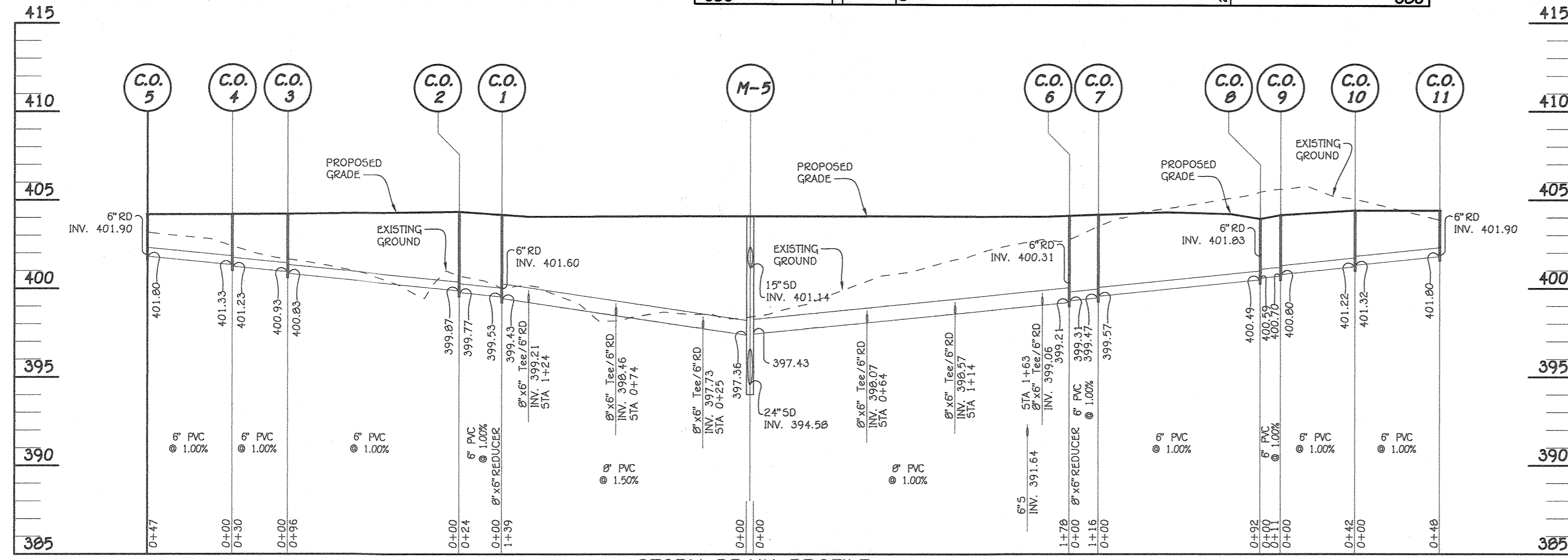
VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 OPEN SPACE LOT 216  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL

ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: AUG. 26, 2020  
 SHEET 31 OF 40



STRUCTURE SCHEDULE									
STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV. IN	INV. OUT	COORDINATES	WIDTH	TYPE	REMARKS	
I-1	PRIVATE	403.72	-	399.78 (18")	N 563076.62 E 1356224.73	3'	A-10 INLET	D-4.03	
I-2	PRIVATE	403.55	403.05 (THROAT), 402.89 (DEPRESSED)	402.49	N 563297.12 E 1356574.52	6'	INLET FLOW THRU	SEE SHEET 33	
I-3	PRIVATE	403.20 *	403.03 (4")	402.57 (19")	N 563101.15 E 1356460.89	2.58'	S INLET	D-4.24	
I-4	PRIVATE	403.34 *	400.07 (8")	399.32 (19")	N 563227.06 E 1356177.74	2.58'	S INLET	D-4.24	
I-5	PRIVATE	403.32	-	400.72 (12")	N 563288.10 E 1356456.98	2.58'	WR INLET	D-4.33 (SINGLE)	
M-4	PRIVATE	405.65	400.37 (12"), 400.37 (12")	400.12 (19")	N 563254.64 E 1356446.39	4"	STD. MANHOLE	G - 5.12	
M-5	PRIVATE	404.50	401.14 (19"), 397.43 (8"), 397.36 (8")	394.98 (24")	N 563371.71 E 1356235.71	4"	STD. MANHOLE	G - 5.12	
M-9	PRIVATE	404.40	399.44 (12"), 395.81 (18")	395.34 (24")	N 563504.97 E 1356553.78	4"	STD. MANHOLE	G - 5.12	
M-10	PRIVATE	405.15	399.37 (18")	399.27 (18")	N 563082.96 E 1356143.93	4"	STD. MANHOLE	G - 5.12	
R-1	PRIVATE	396.88 *	391.88 (4")	388.06 (24")	N 563094.59 E 1356197.00	3'	MOD. K INLET	SEE SHEET 30	
R-2	PRIVATE	396.90 *	391.60 (4")	388.53 (24")	N 563576.86 E 1356630.68	3'	MOD. K INLET	SEE SHEET 30	
R-3	PRIVATE	402.50 *	398.00 (4"), 396.87 (18")	396.77 (18")	N 563314.70 E 1356582.41	3'	MOD. K INLET	SEE SHEET 30	
R-4	PRIVATE	403.67 *	399.00 (4"), 397.35 (18")	397.25 (18")	N 56329.16 E 1356577.08	3'	MOD. K INLET	SEE SHEET 30	
R-5	PRIVATE	403.90 *	399.50 (4"), 399.44 (15")	397.68 (18")	N 56329.01 E 1356512.02	3'	MOD. K INLET	SEE SHEET 30	
R-6	PRIVATE	400.50 *	394.75 (8")	393.96 (18")	N 563173.79 E 1356104.76	3'	MOD. K INLET	SEE SHEET 30	
R-7	PRIVATE	403.65 *	399.50 (4")	395.34 (18")	N 562995.10 E 1356162.39	3'	MOD. K INLET	SEE SHEET 30	
E-1	PRIVATE	-	-	394.00 (24")	N 563303.07 E 1356231.28	24"	CONC. END SECTION	D - 5.41	
E-2	PRIVATE	-	-	394.60 (24")	N 563556.46 E 1356687.10	24"	CONC. END SECTION	D - 5.51	
E-3	PRIVATE	-	-	399.00 (19")	N 563216.91 E 1356122.02	19"	CONC. END SECTION	D - 5.51	
E-4	PRIVATE	-	-	399.00 (18")	N 563125.13 E 1356122.18	18"	CONC. END SECTION	D - 5.51	
E-5	PRIVATE	-	-	402.00 (19")	N 563099.04 E 1356567.70	19"	CONC. END SECTION	D - 5.51	
TRENCH DRAIN #1	PRIVATE	403.76 *	402.91, 402.00	402.00 (12")	N 563462.20 E 1356434.17	-	TRENCH DRAIN	SEE SHEET 33	
TRENCH DRAIN #2	PRIVATE	404.07 *	403.22, 402.66	402.66 (12")	N 563291.91 E 1356481.82	-	TRENCH DRAIN	SEE SHEET 33	
HW-2	PRIVATE	-	-	386.10 (24")	N 563850.96 E 1356676.73	-	CONC. HEADWALL	D - 5.21	

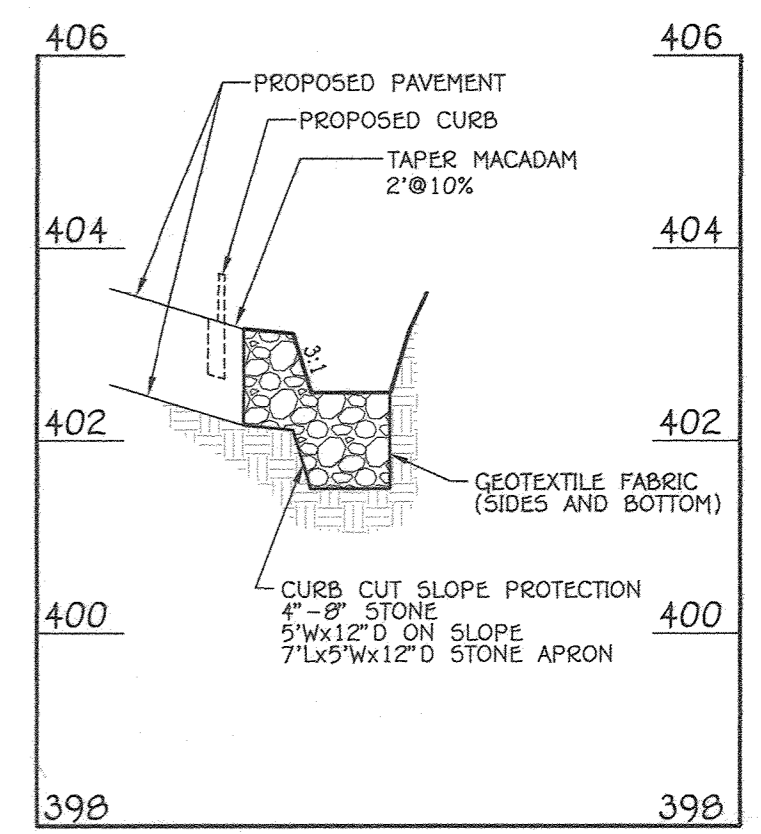
\* - DENOTES GRADE ELEVATION  
 NOTE: COORDINATES ARE TO CENTER OF MH, CENTER OF INLET @ FACE OF CURB, CENTER OF RISER STRUCTURE AND @ MIDDLE OF OUTFALL OF TRENCH DRAIN TO 12" PIPE.  
 FOR ADDITIONAL STRUCTURES SEE SHEET 40



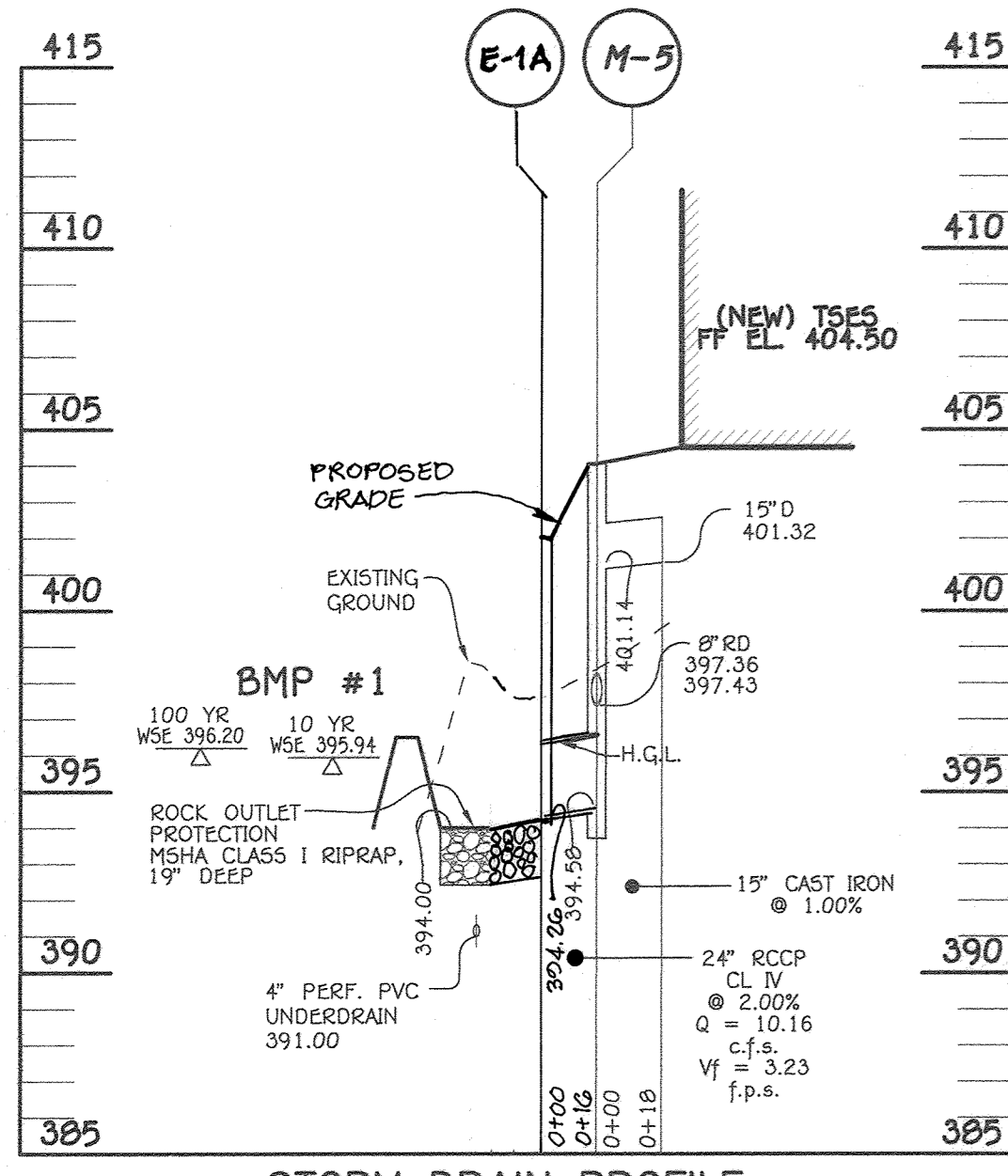
STORM DRAIN PROFILE  
 SCALE: HORIZ. : 1" = 50'  
 VERT. : 1" = 5'

BMP FOREBAY GABION WEIR SCHEDULE (Gabion Basket Quantities)			
FACILITY	SIZE	QUANTITY	WEIR ELEV.
1	3'x1x9'	4	394.6
2	3'x1x4.5'	3	395.2
3	2'x2'x5'	3	401.75
5	2'x2'x5'	5	403.1
6	3'x3'x6'	3	400.25
6	3'x1.5'x12'	2	399.8
7	3'x1'x6'	2	402.75

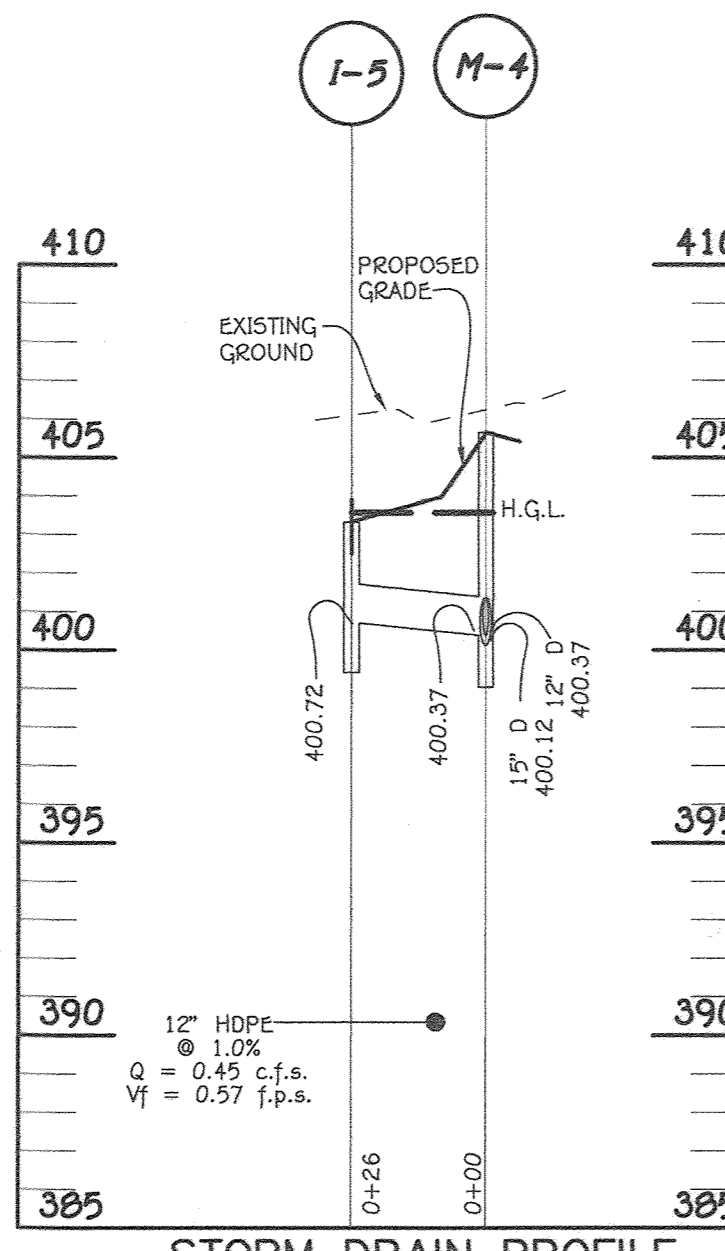
PIPE SCHEDULE (PRIVATE)		
SIZE	CLASS	LENGTH
4"	PERF PVC	1046 LF
4"	PVC SCH 40	74 L.F.
6"	PVC SCH 40	391 LF
8"	PVC SCH 40	490 LF
12"	PVC SCH 40	180 LF
15"	RCCP, CLASS IV	268 LF
18"	RCCP, CLASS IV	768 LF
24"	RCCP, CLASS IV	241 LF
15"	CAST IRON	18 L.F.



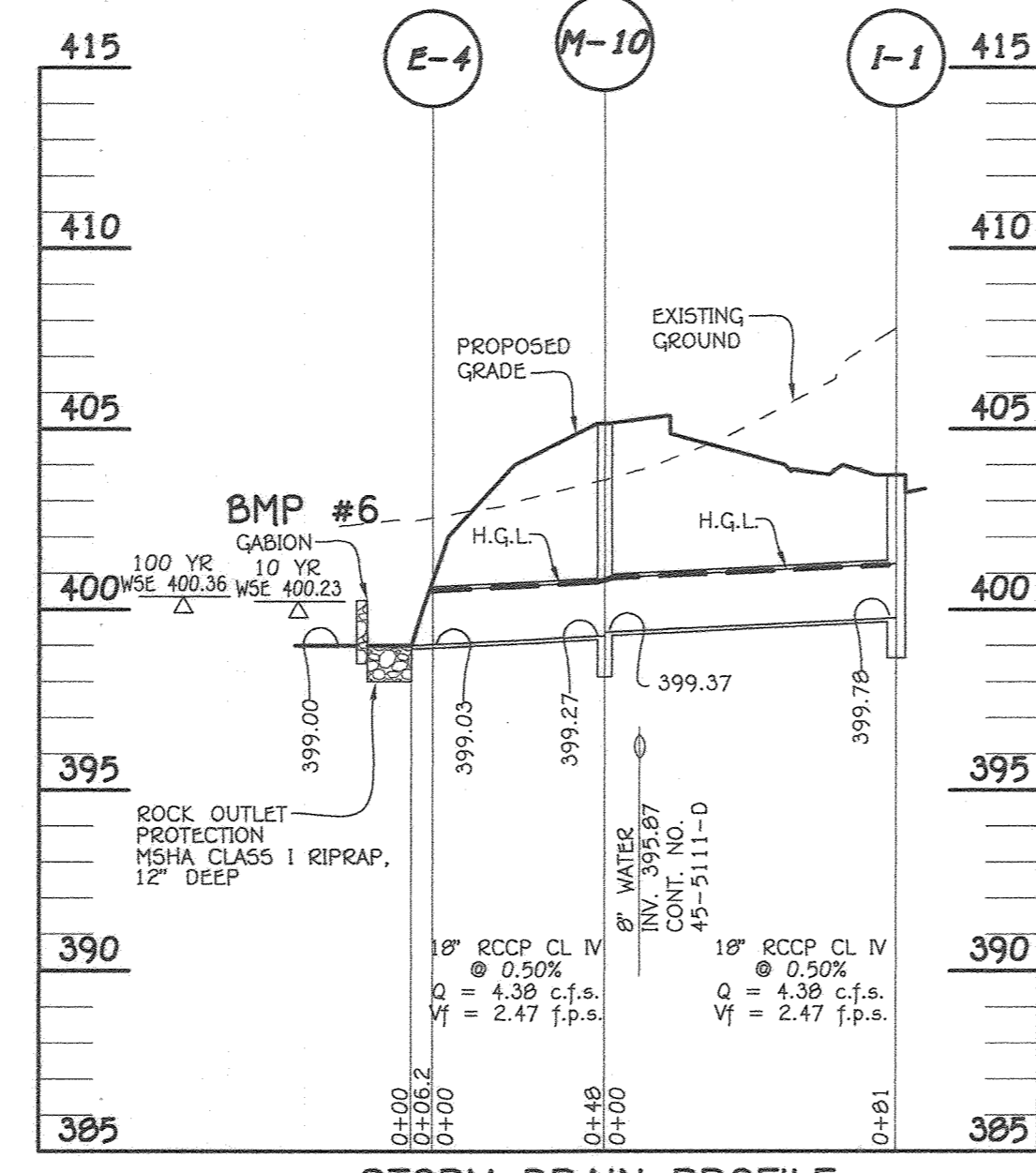
CURB CUT PROFILE BMP #7  
 SCALE: HORIZ. : 1" = 20'  
 VERT. : 1" = 2'



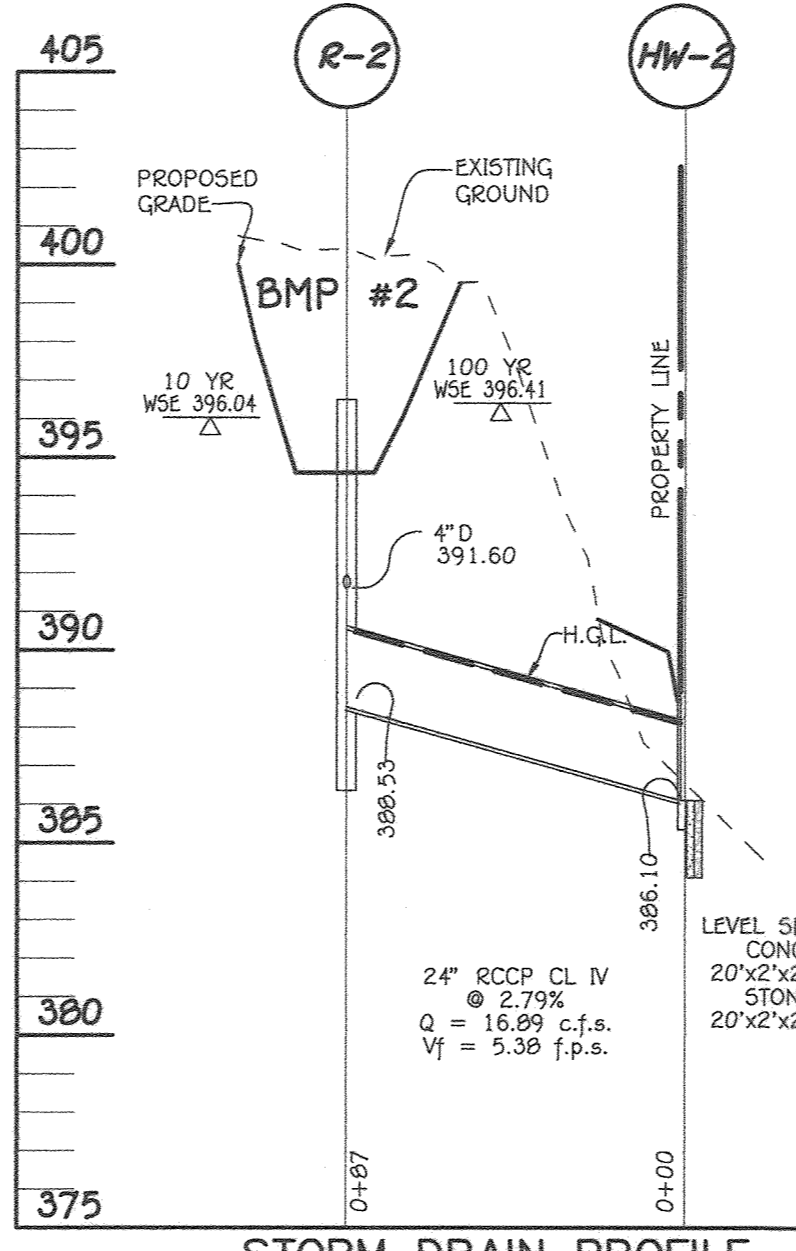
STORM DRAIN PROFILE  
 SCALE: HORIZ. : 1" = 50'  
 VERT. : 1" = 5'



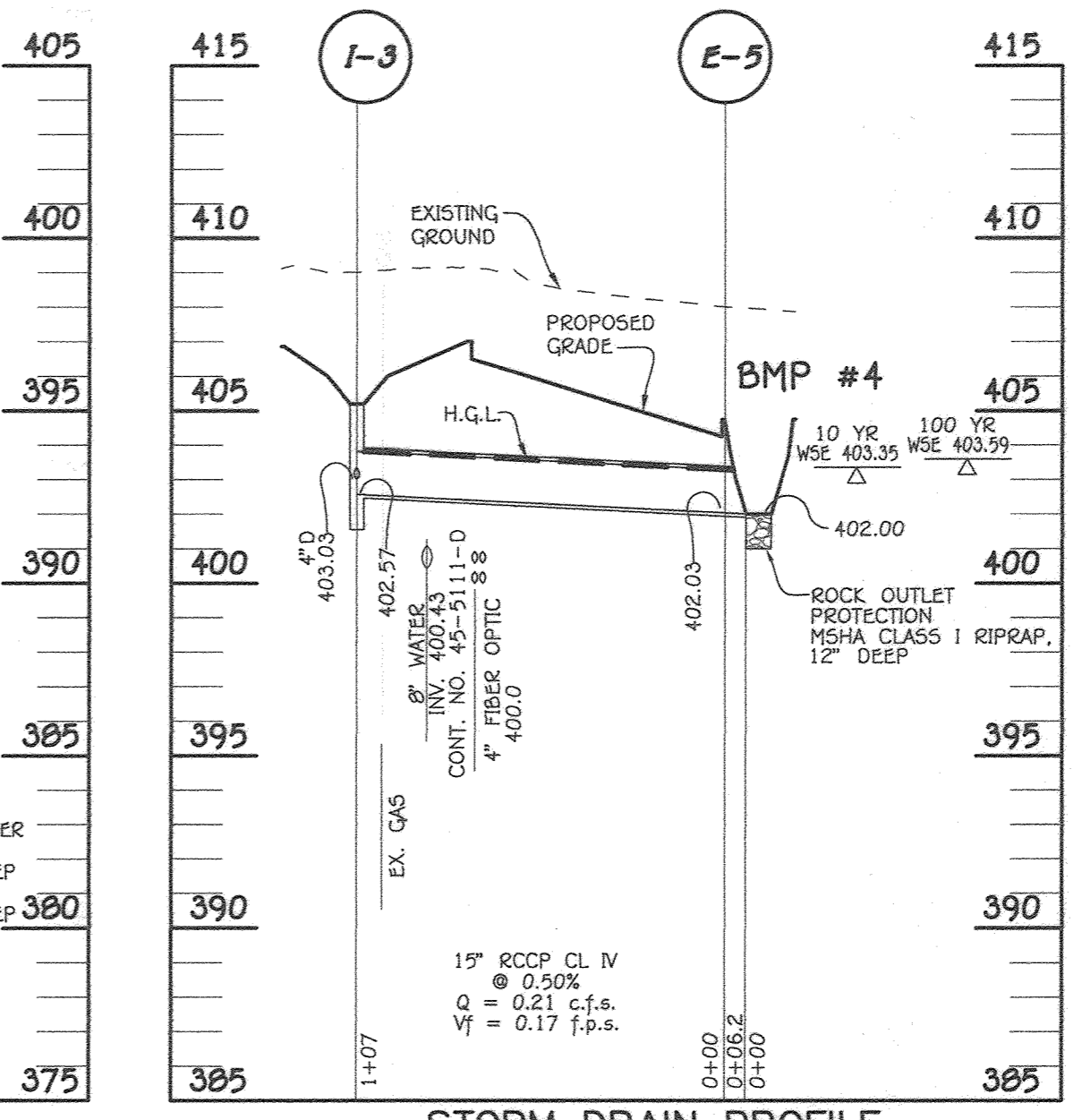
STORM DRAIN PROFILE  
 SCALE: HORIZ. : 1" = 50'  
 VERT. : 1" = 5'



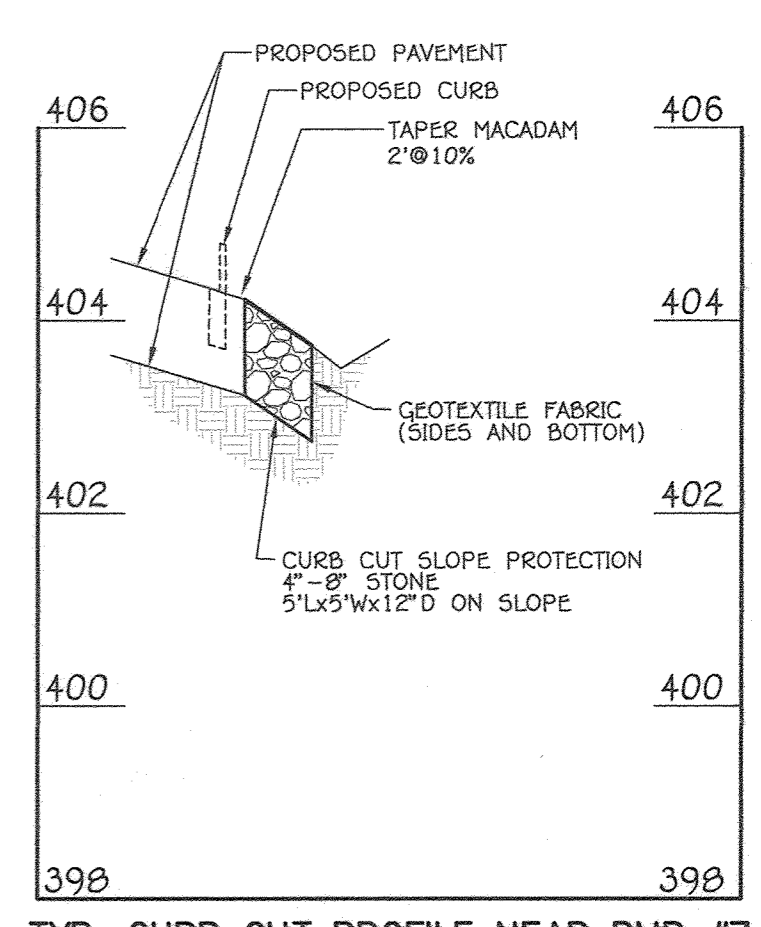
STORM DRAIN PROFILE  
 SCALE: HORIZ. : 1" = 50'  
 VERT. : 1" = 5'



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



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



TYP. CURB CUT PROFILE NEAR BMP #7  
 SCALE: HORIZ. : 1" = 20'  
 VERT. : 1" = 2'

APPROVED  
 PLANNING BOARD OF HOWARD COUNTY  
 DATE: 9/17/20

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10722 BAYBROOK NATIONAL PIKE  
 ELLETTT CITY, MARYLAND 21044  
 (410) 461-2855

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2023."  
 Stephen J. Tuttle, P.E., LEED AP BC&D  
 DATE: 9/1/20

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 'C'  
 COLUMBIA, MARYLAND 21045  
 Attention: DANIEL LUBELEY  
 410-313-8203

7/7/22 REVISED E-1 TO M-6 PROFILE, SCHEDULE AND SHEET NO.  
 3/9/21 REVISED PROFILE SCHEDULE & ADDED PROFILE  
 11/12/20 ADD PROFILE OF TEMP 15" HDPE

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

16-16-20 Date  
 10/16/20 Date  
 10.2.20 Date

Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

PROJECT	SECTION/AREA	PARCEL
ELEMENTARY SCHOOL	4/1	283

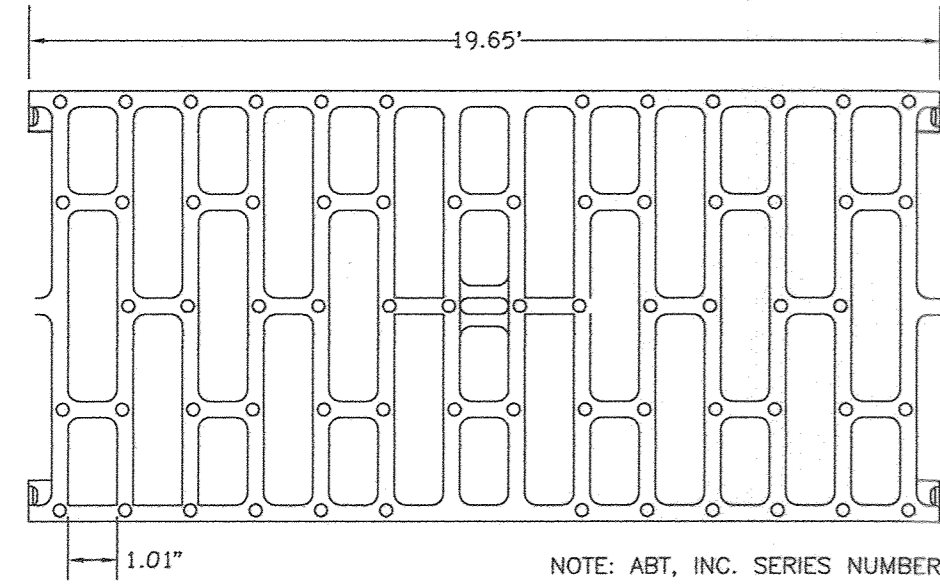
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603

WATER CODE	SEWER CODE
E 03	5580800

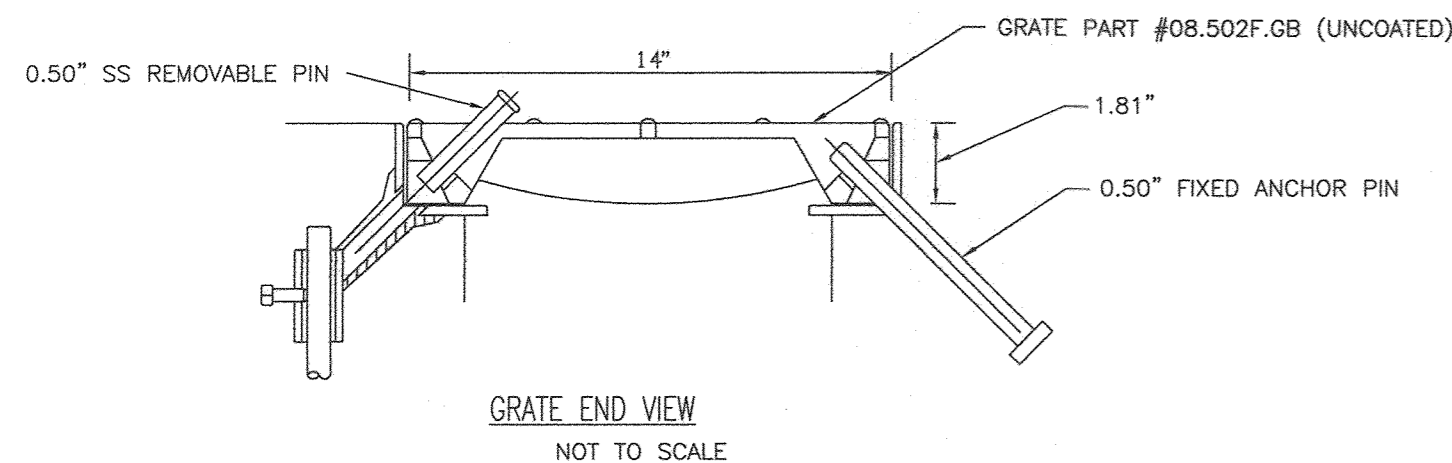
STORM DRAIN PROFILES, DETAILS AND STRUCTURE SCHEDULE  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 OPEN SPACE LOT 216  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: AUG. 26, 2020  
 SHEET 32 OF 40



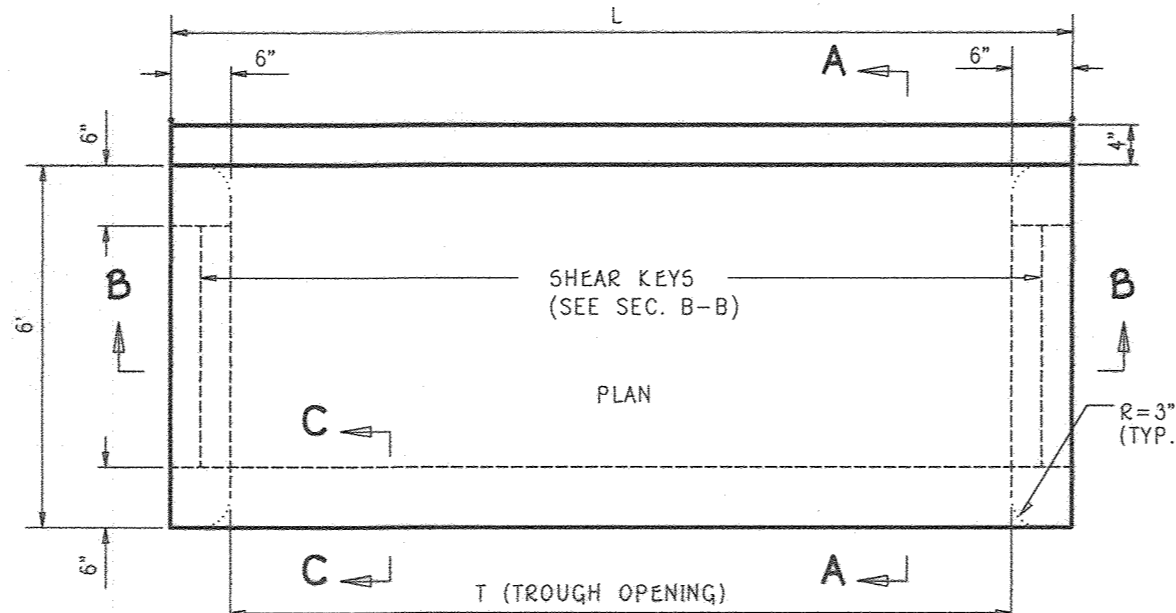
- TRENCH DRAIN PARTS AND DETAILS SHALL CONFORM TO ABT, INC. PRODUCTS.
- GRATING - TR08.B-08.502F.GB-G22E GRATES SHALL COMPLY WITH ALL THE REQUIREMENTS OF AASHTO M306.
- FORMS - TR08.B FORMWORK ASSEMBLY MUST BE PREVENTED FROM FLOATING DURING CONCRETE PLACEMENT WITHOUT PENETRATING THE SUB GRADE. FORMWORK TO BE ANCHORED TO THE EARTH USING STEEL NO-FLOAT LEGS AND AN ANCHOR SLAB POUR. THE WIRES THAT ASSURE CONSTANT FRAME SPACING AND GRATE SEAT DIMENSION TO BE PROVIDED.
- BLACK EPOXY COATED 2.0" x 2.0" x 0.19" STEEL ANGLE CONFORMING TO ASTM A36, STANDARD HEADED CONCRETE ANCHOR STUDS BISECT GRATE RETAINER ANCHOR LUGS PROVIDING A FRAME ANCHORING DEVICE EVERY 9.64". GRATE FRAMES TO PROVIDE A MINIMUM OF 1.25 SQUARE INCHES CONCRETE BEARING WITH 3.25 SQUARE INCHES OF CONCRETE CONTACT PER INCH OF TRENCH LENGTH. GRATES ARE RETAINED NON-RIGIDLY AT ALL CORNERS. NON-THREADED REMOVABLE 0.5" STAINLESS STEEL PINS LOCATED ON 3.28' CENTERS ALONG THE FRAMES BISECTED BY 0.5" NON-REMOVABLE GRATE RETAINING DEVICE ON 3.28' CENTERS. GRATE RETAINER PERFORMANCE SHALL NOT DEGRADE WITH SERVICE LOADS OR THERMAL CYCLING.
- POST CONSTRUCTION INSPECTION: FORMWORK IS TO BE FULLY REMOVED, WITHOUT EXCEPTION, TO ALLOW FOR INSPECTION AND IF NEEDED REPAIR OF ANY VOIDS AND OR CONCRETE CONSOLIDATION ISSUES BELOW FRAME, TRENCH WALLS AND INVERT. GRATE AND GRATE RETAINER SHALL BE PERFORMED TO ENSURE THAT ALL GRATES AND RETAINERS ARE INSTALLED AND ARE PROPERLY SEATED IN PLACE.



GRATE TOP VIEW  
NOTE: ABT, INC. SERIES NUMBER: TR12-12.502E.GB-G22E  
NOT TO SCALE

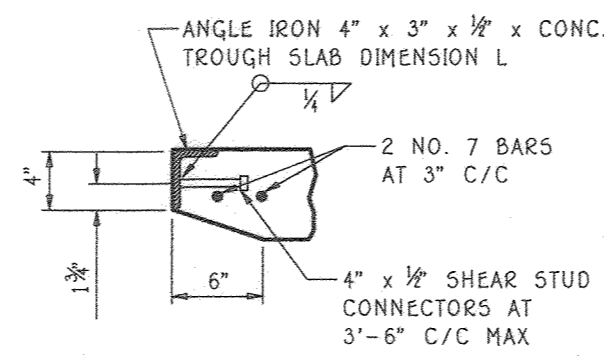


GRATE END VIEW  
NOT TO SCALE

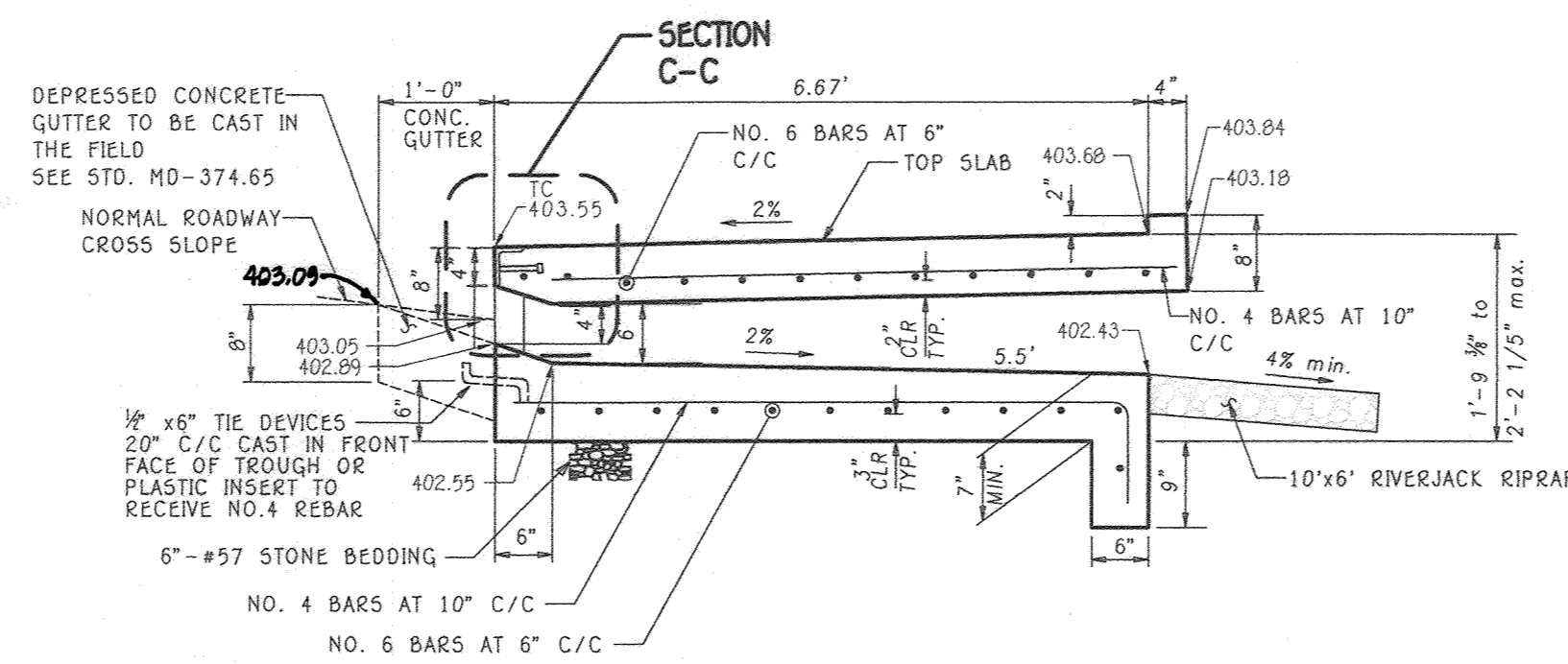


PRECAST CONCRETE TOP SLAB

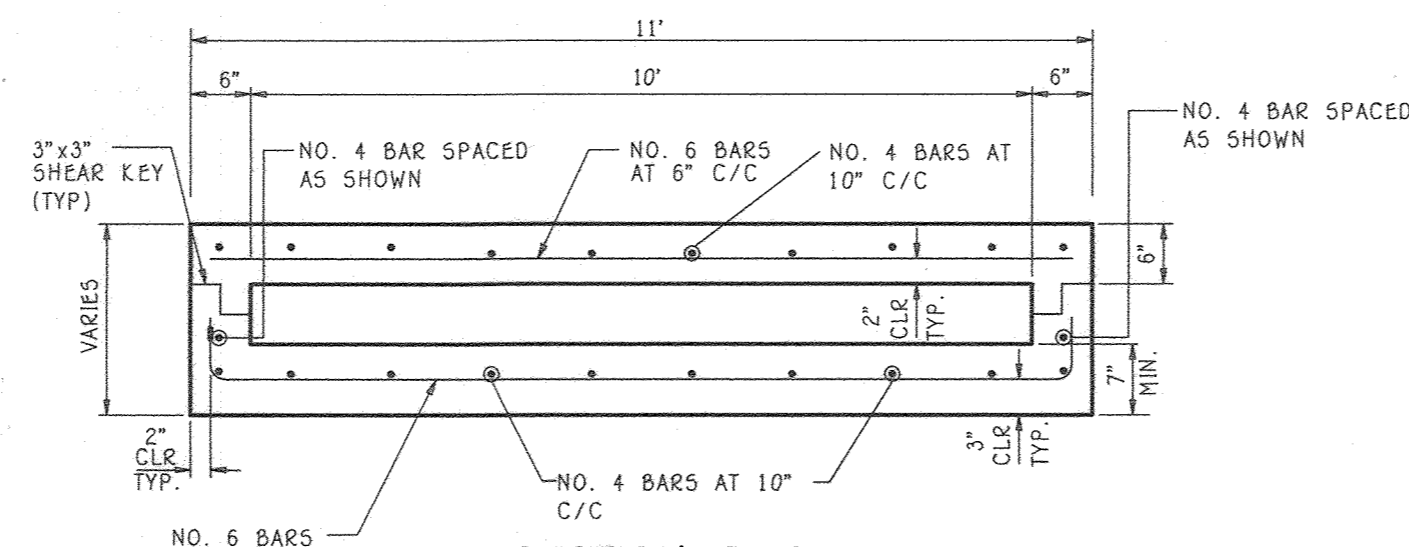
SLAB TYPE	L	T
I	6'-0"	5'-0"
II	11'-0"	10'-0"



SECTION C-C  
NOTE: FOR 6" CURB, SEE NOTE 4 BELOW.



SECTION A-A



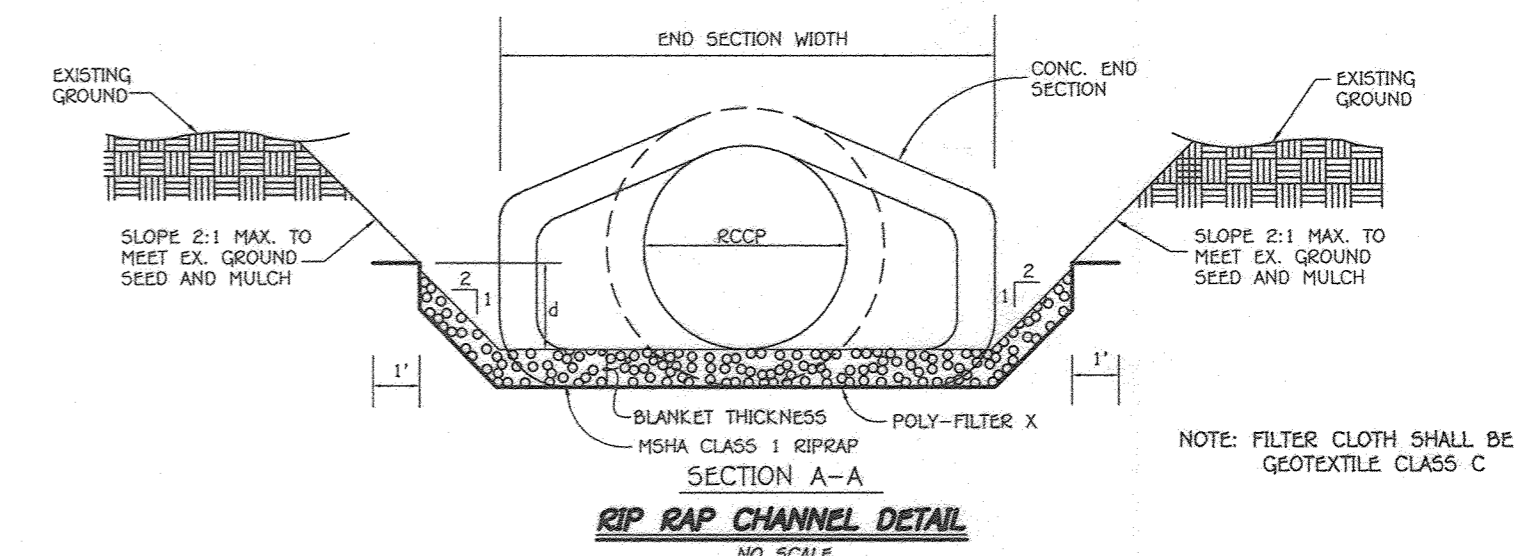
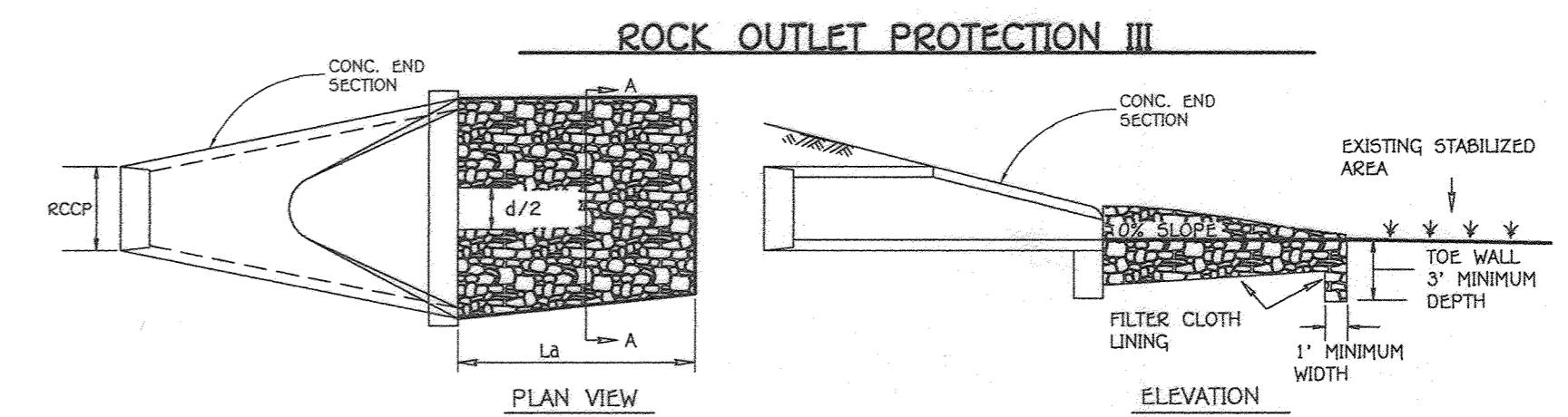
SECTION B-B

NOTES:

- CONCRETE SHALL BE MIX # 6 (4500 PSI).
- REINFORCEMENT STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60.
- ANGLE IRON AND SHEAR STUD CONNECTORS SHALL BE GALVANIZED AFTER WELDING IN ACCORDANCE WITH ASTM A 123.
- FOR 6" CURB, REFER TO MD 374.55-01, SECTIONS C-C AND D-D.
- EROSION PROTECTION TO BE PAID FOR SEPARATELY.

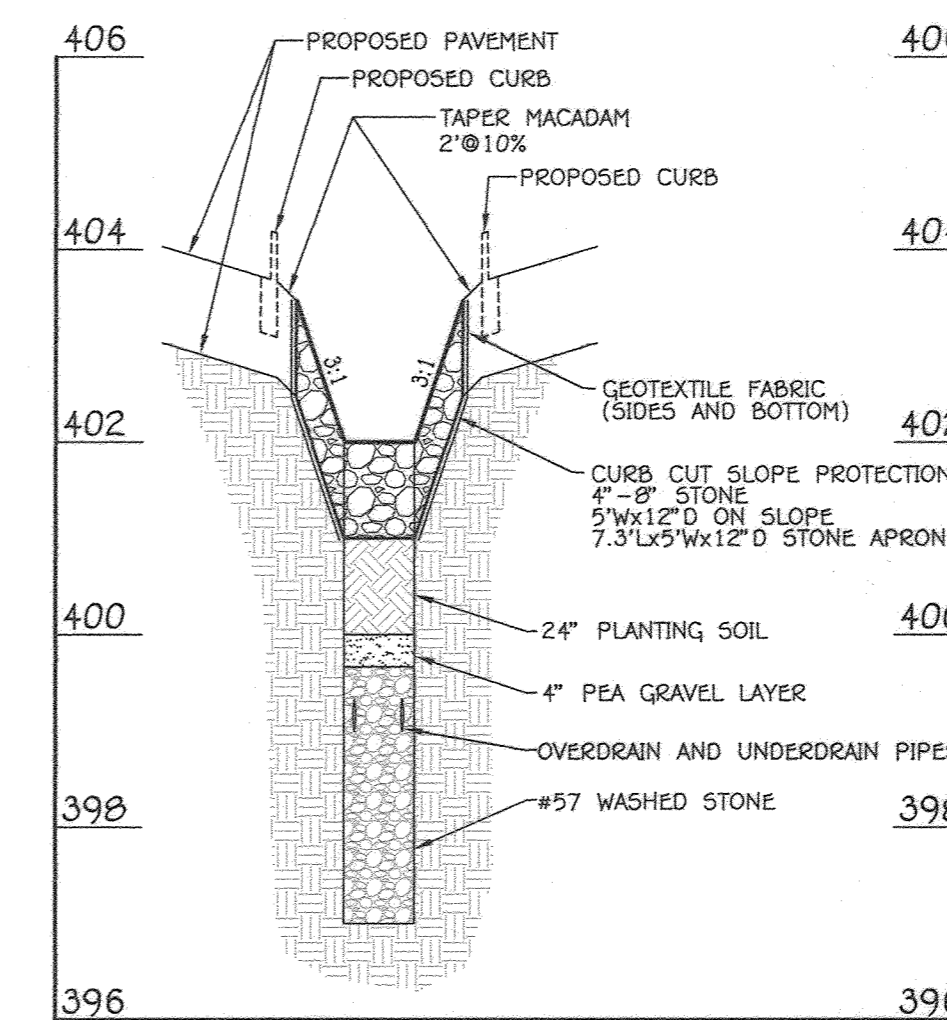
INLET FLOW THROUGH (1-2)

NO SCALE



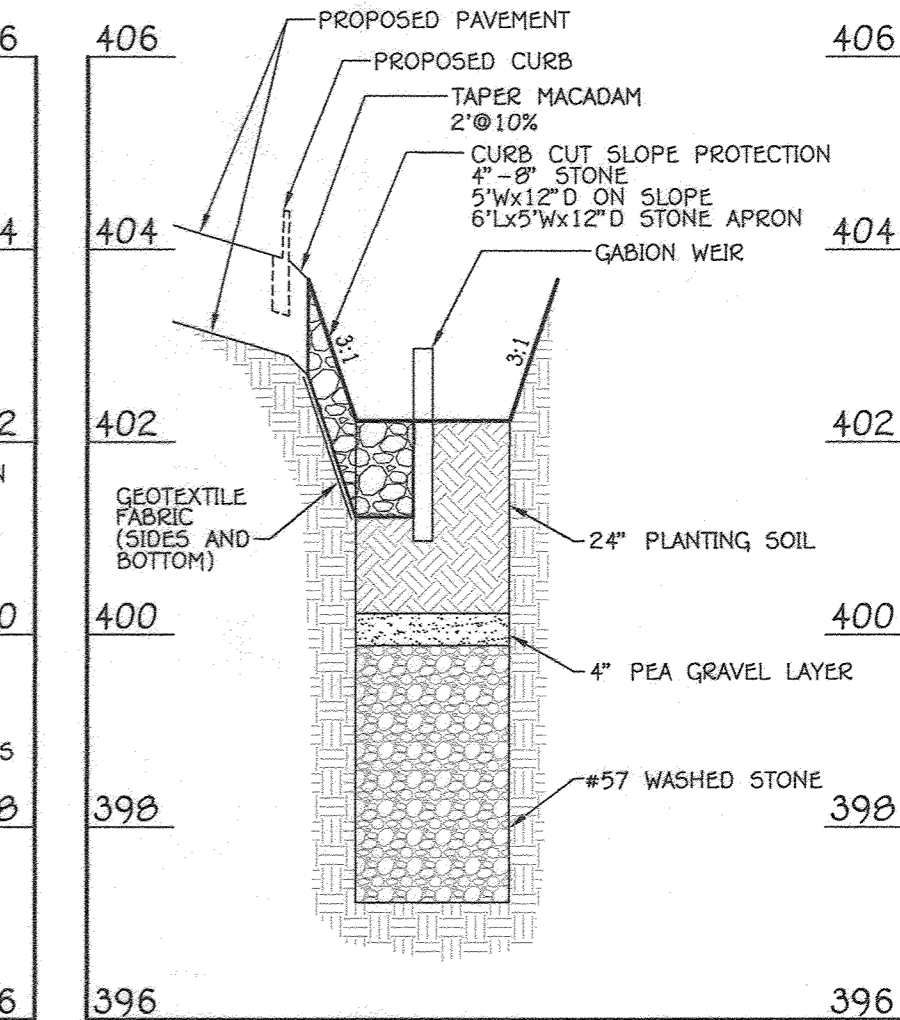
CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS

- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional hole shall be replaced by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the riprap or gabion outlets may be placed by equipment. Both shall each be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogenous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.



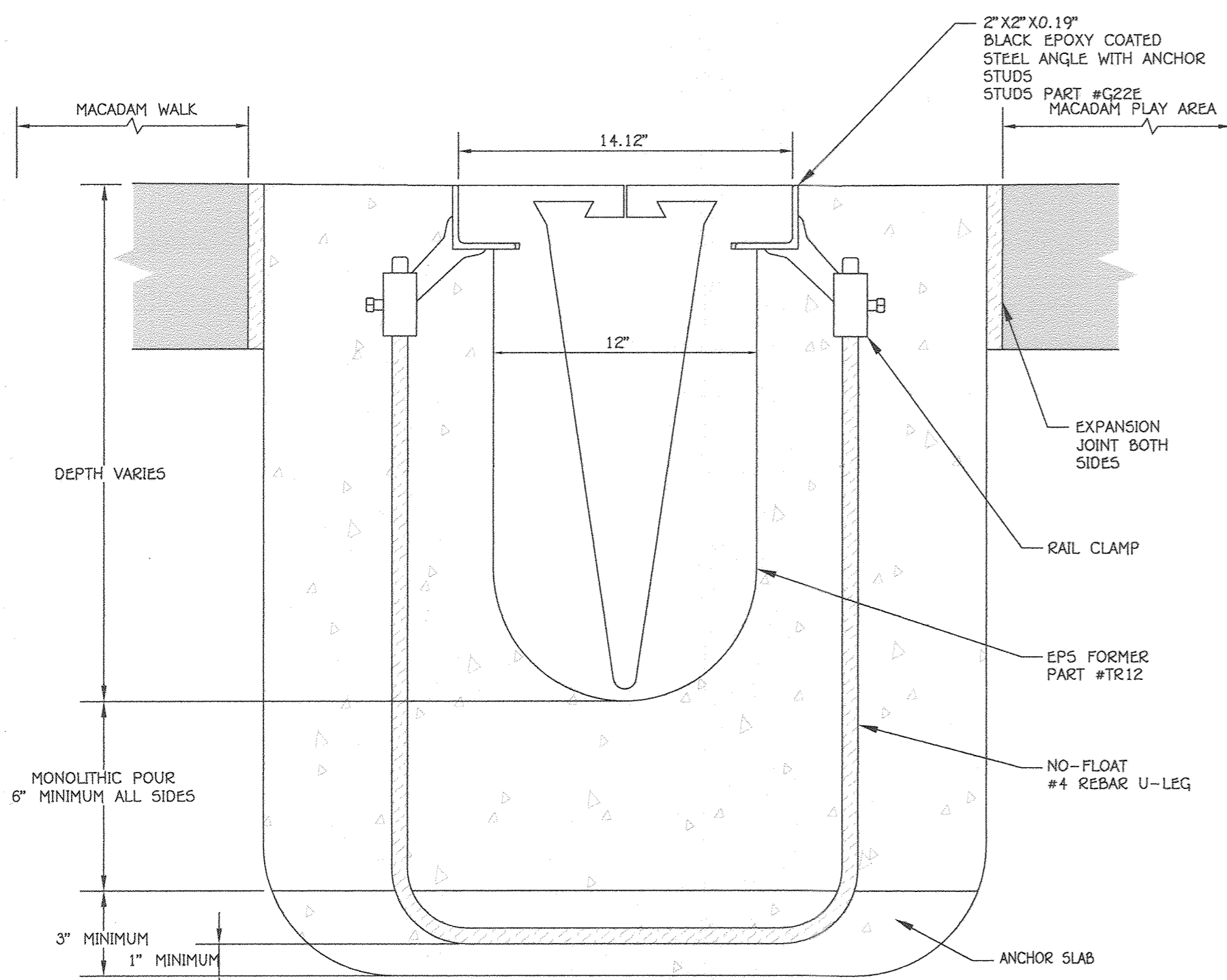
TYPICAL CURB CUT PROFILE BMP #4

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



CURB CUT PROFILE BMP #5

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



TRENCH END SECTION  
NOT TO SCALE  
TRENCH DRAIN  
NO SCALE

33

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL, ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21041  
(410) 461-2855

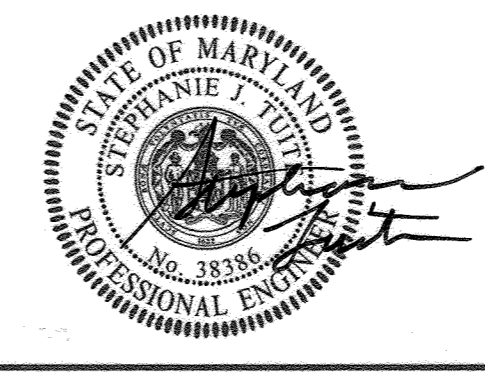
"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: JANUARY 12, 2025."  
*Stephanie Tuite*  
STEPHANIE T. TUITE, RLA, P.E., LEED AP BC&D  
9/16/20  
DATE

DATE	DESCRIPTION	REVISION BLOCK
7/7/22	REVISED SHEET NUMBER	
9/9/21	ADDED ELEV. IN SECTION A-A	

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

16-16-20  
Date  
10-2-20  
Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

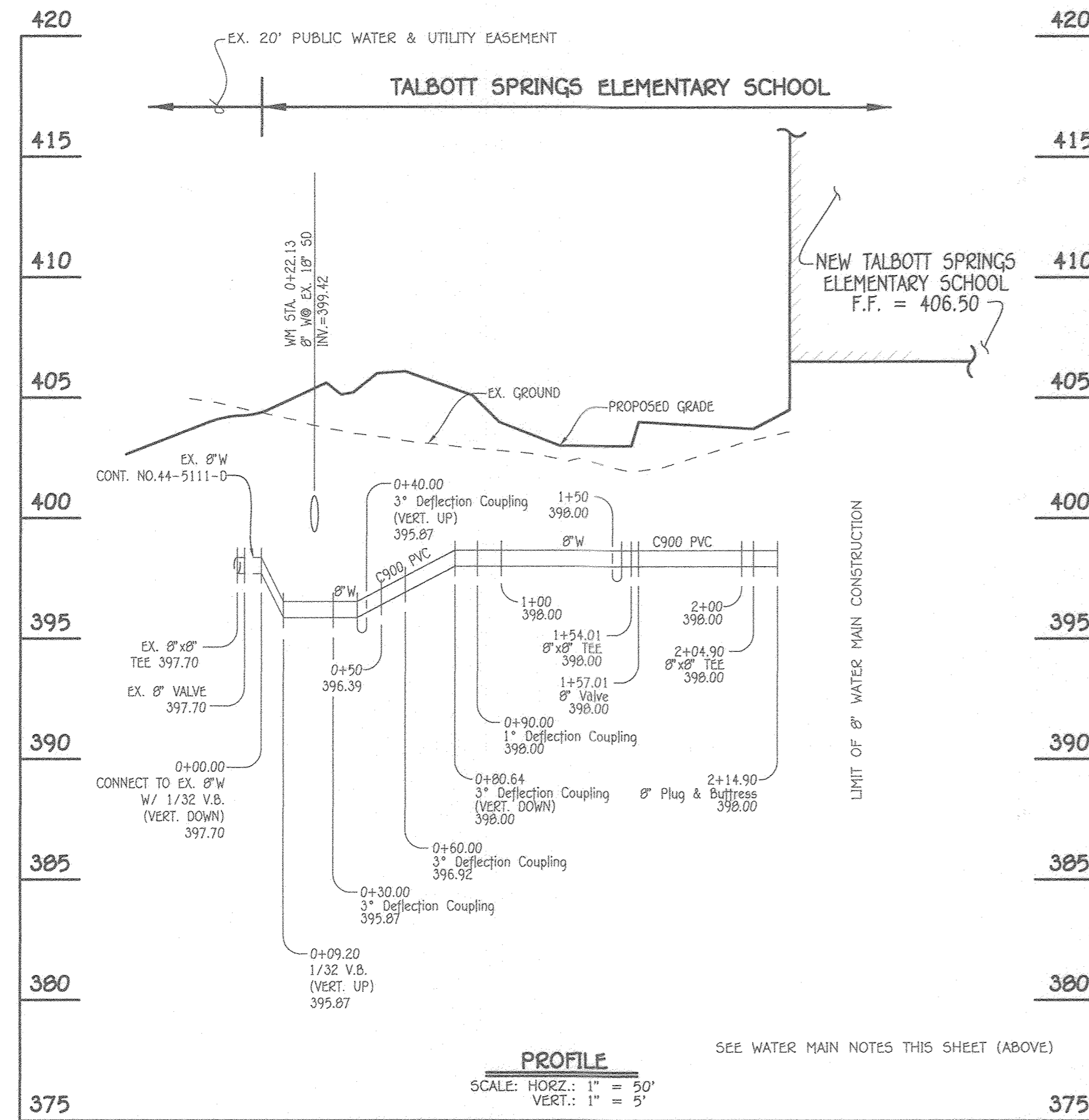
PROJECT	SECTION/AREA	PARCEL
ELEMENTARY SCHOOL	4/1	283

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603

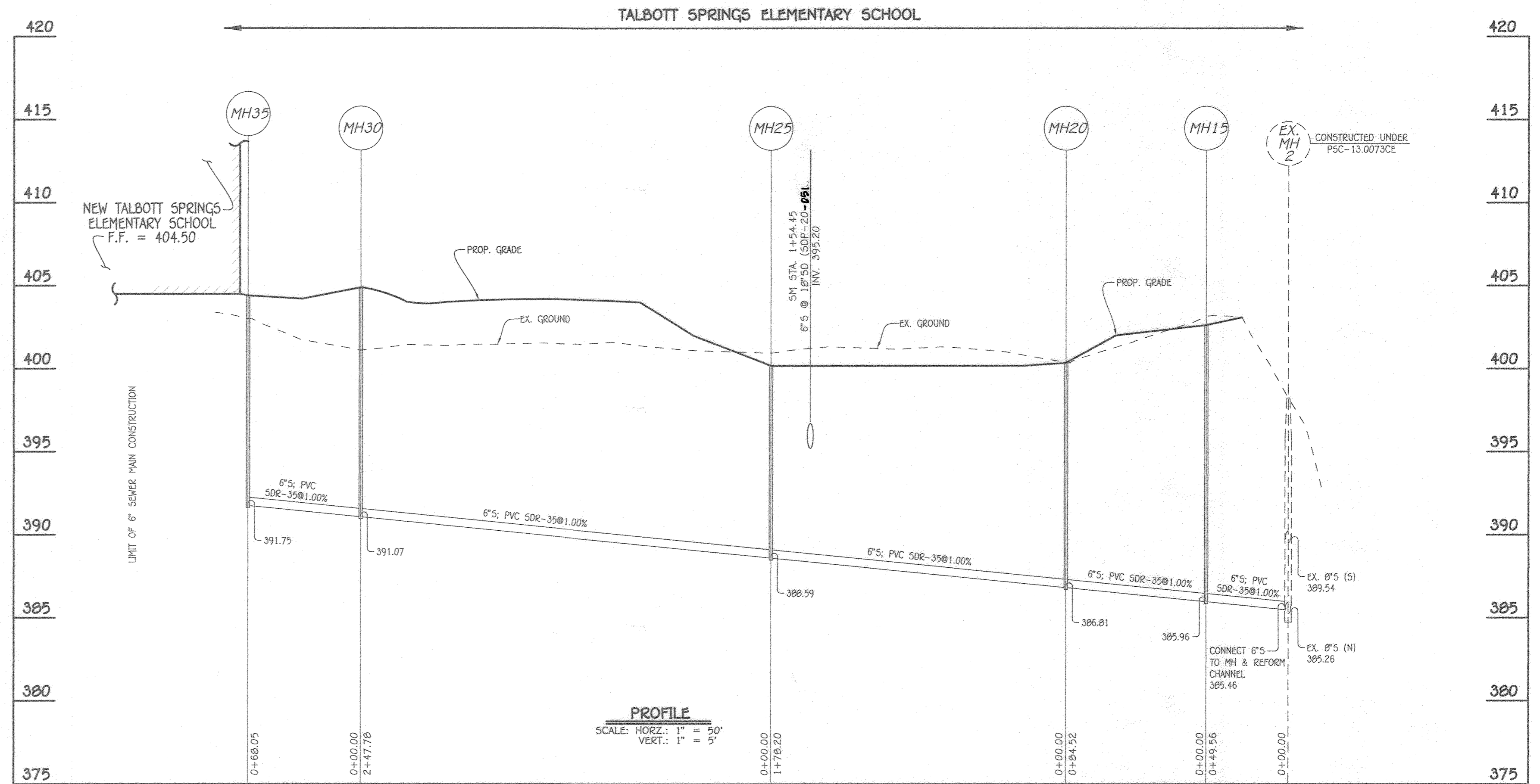
WATER CODE	SEWER CODE
E 03	5580800

STORM DRAIN DETAILS  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 33 OF 40

- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE, DR-18.
  2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
  3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
  4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



**8" PRIVATE WATER MAIN**



**6" SEWER MAIN**

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
PRIVATE 8" WATER MAIN			
0+00.00	1/32 V.B. (DOWN); CONNECT TO EX. 8" W	563,061.09	1,356,160.26
0+09.20	1/32 V.B. (UP)	563,069.86	1,356,197.49
0+30.00	3" DEFLECTION COUPLING	563,089.70	1,356,151.23
0+40.00	3" DEFLECTION COUPLING (VERT. UP)	563,099.38	1,356,148.72
0+60.00	3" DEFLECTION COUPLING	563,118.74	1,356,143.71
0+80.64	3" DEFLECTION COUPLING (VERT. DOWN)	563,138.97	1,356,139.58
0+90.00	1" DEFLECTION COUPLING	563,148.14	1,356,137.72
1+54.01	8" x 8" TEE	563,211.11	1,356,126.22
1+57.01	8" VALVE	563,211.65	1,356,129.18
2+04.90	8" x 8" TEE	563,220.24	1,356,176.28
2+14.90	8" PLUG & BUTTRESS	563,210.41	1,356,178.08

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	TOP ELEVATION
MH 15	563,445.36	1,356,807.50	402.62
MH 20	563,529.88	1,356,807.98	400.34
MH 25	563,545.88	1,356,630.49	400.17
MH 30	563,456.68	1,356,399.33	404.88
MH 35	563,389.46	1,356,388.72	404.40

NOTE: SET MANHOLE FLUSH WITH PROPOSED GRADE.

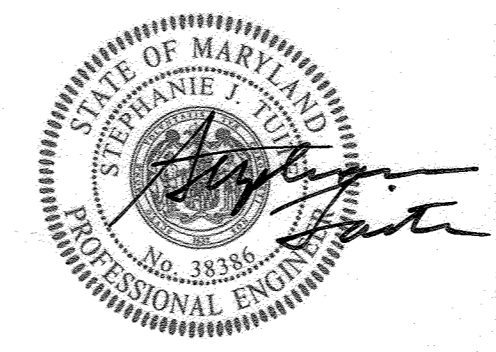
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTONAL SQUARE OFFICE PARK - 10775 BALTIMORE NATIONAL PARK  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2899

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuttle*  
STEPHANIE J. TUTTLE, RLA, P.E., LEED AP BC&D  
DATE 9/11/20

7/7/22 REVISED SHEET NUMBER  
3/9/21 ~~XXXX XX-10-08~~  
DATE DESCRIPTION REVISION BLOCK  
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Director - Department of Planning and Zoning 10-16-20  
Date 10/16/20  
Chief, Division of Land Development 10-2-20  
Date 10-2-20  
Chief, Development Engineering Division

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



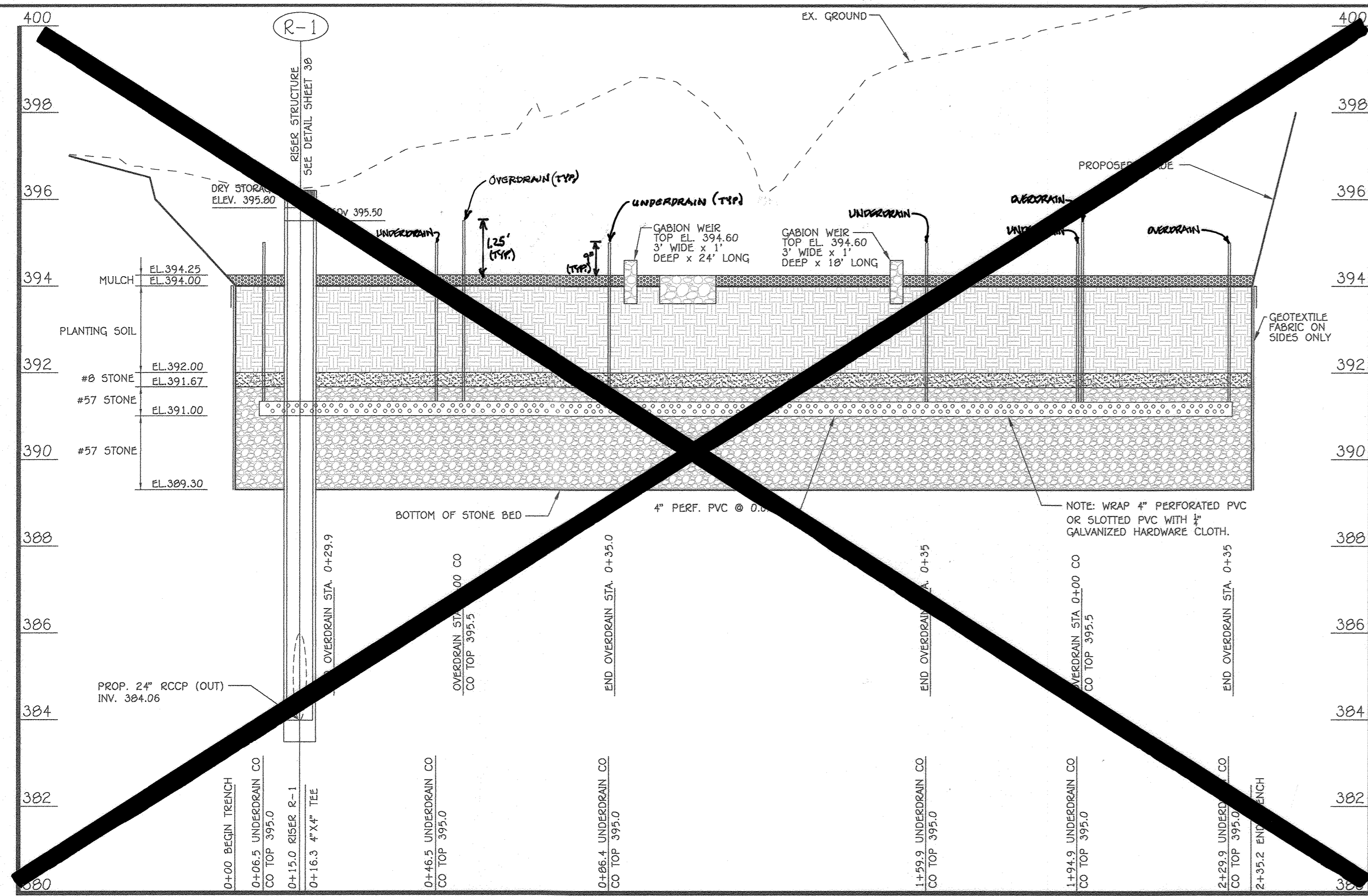
Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

PROJECT	SECTION/AREA	PARCEL
ELEMENTARY SCHOOL	4/1	283

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603

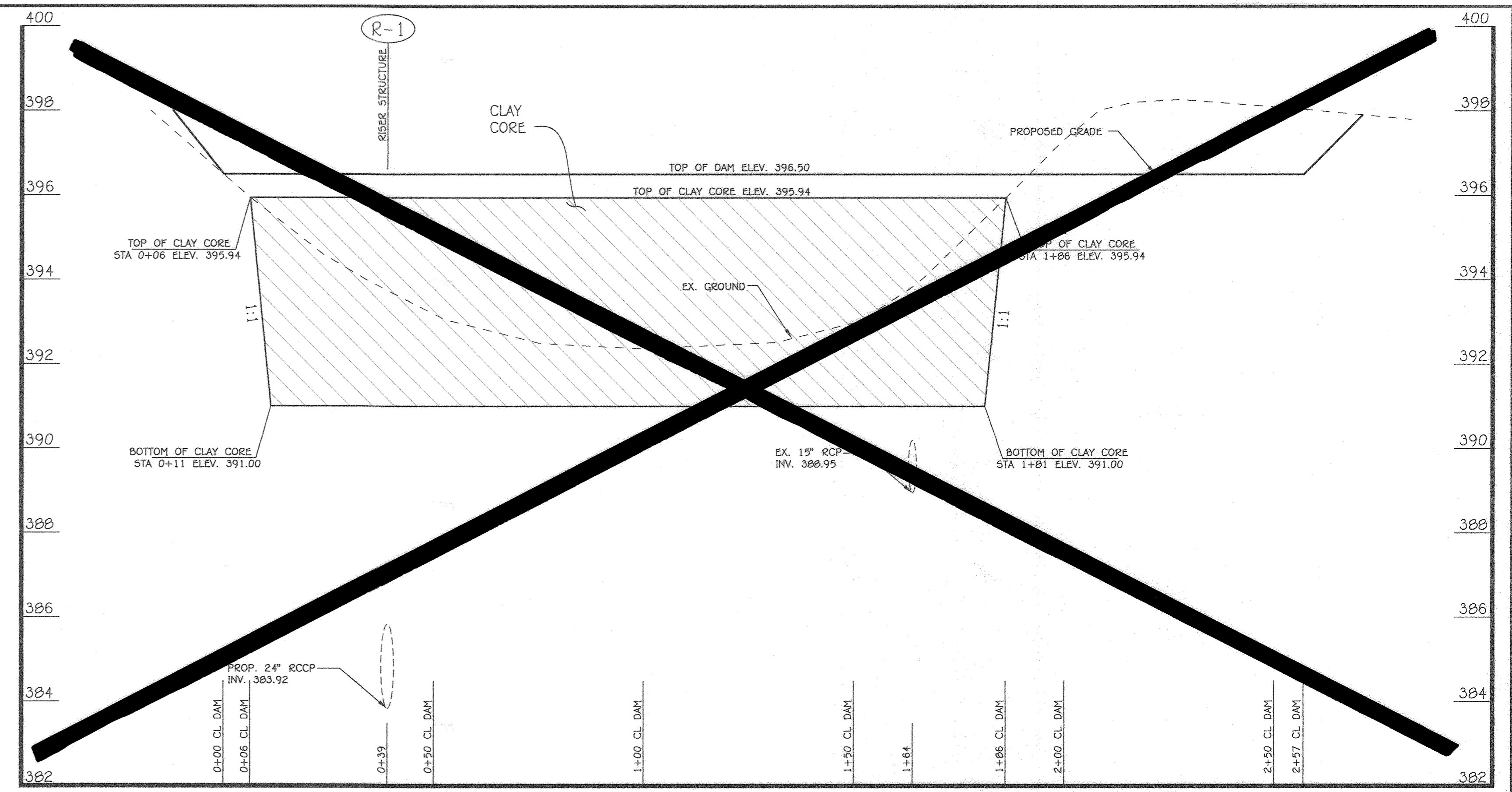
WATER CODE	SEWER CODE
E 03	5580800

**PRIVATE WATER & SEWER MAINS:  
PROFILES AND CHARTS**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 34 OF 42



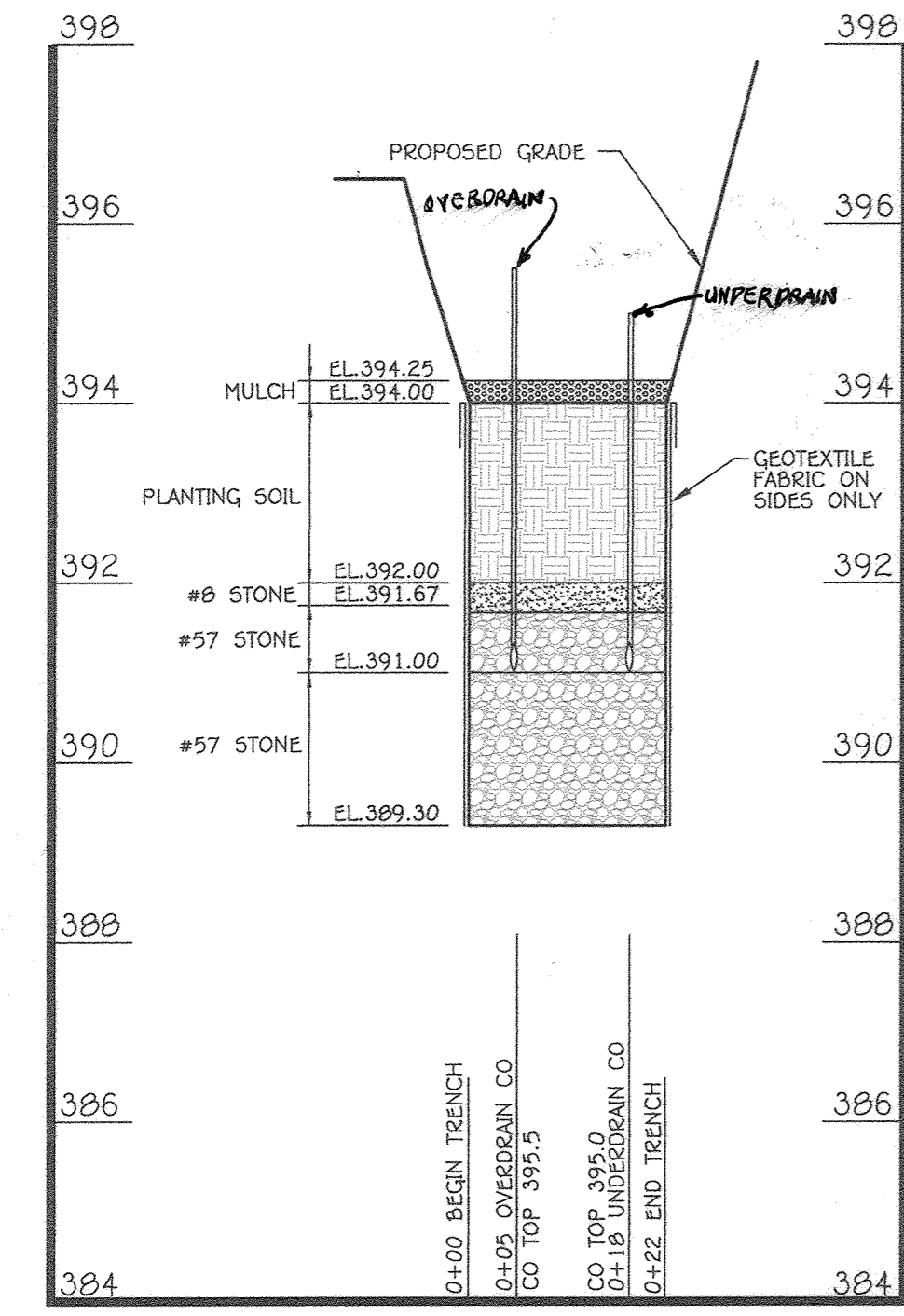
**BMP #1 UNDERDRAIN PROFILE**  
(SECTION A-A)  
SCALE: HORIZ: 1" = 20'  
VERT: 1" = 2'

SEE SHEETS 45-49 FOR REVISED S.W.M.F. #1 PLANS

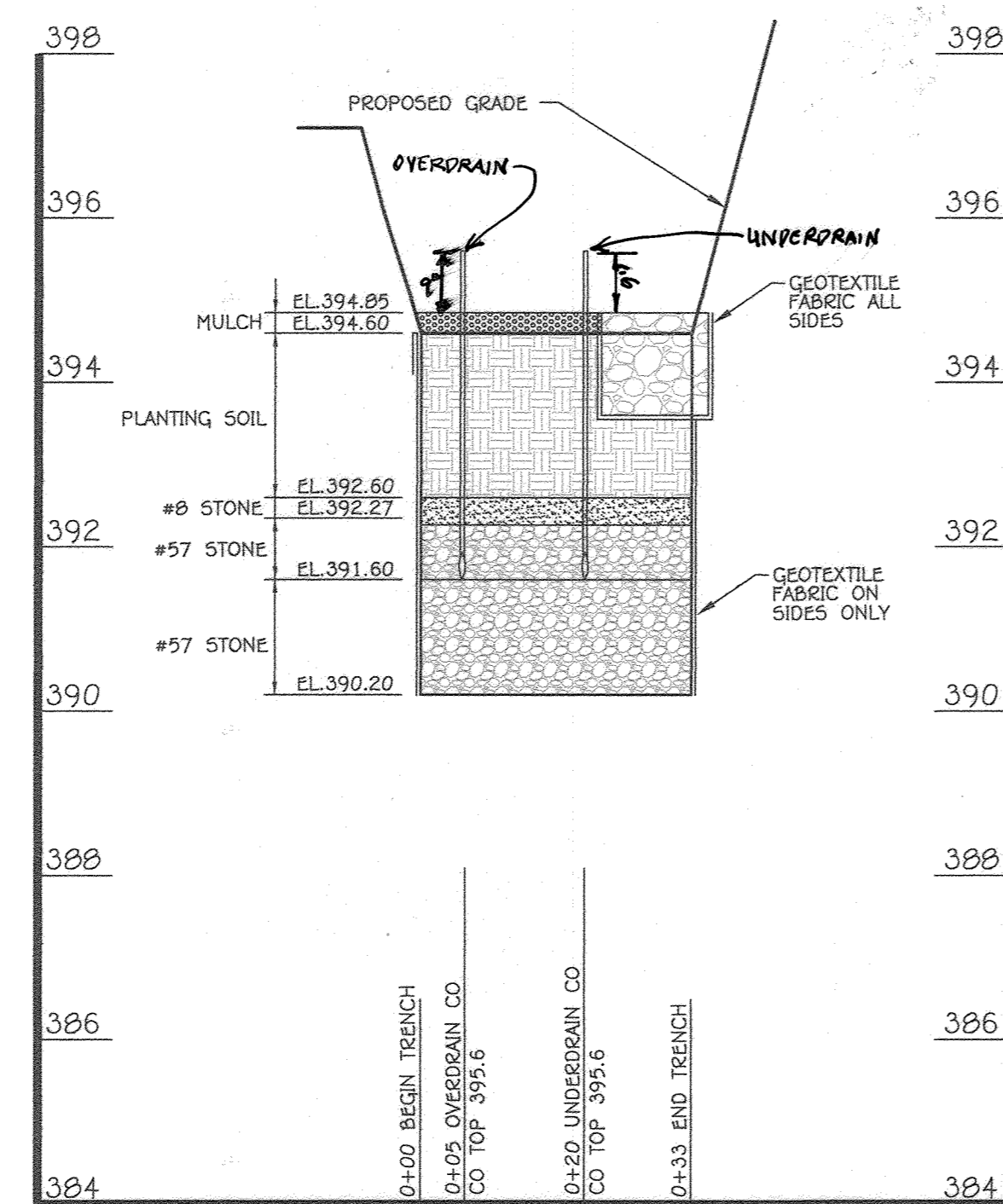


**SEDIMENT TRAP #1 (BMP #1)**  
SCALE: HORIZ: 1" = 20'  
VERT: 1" = 2'

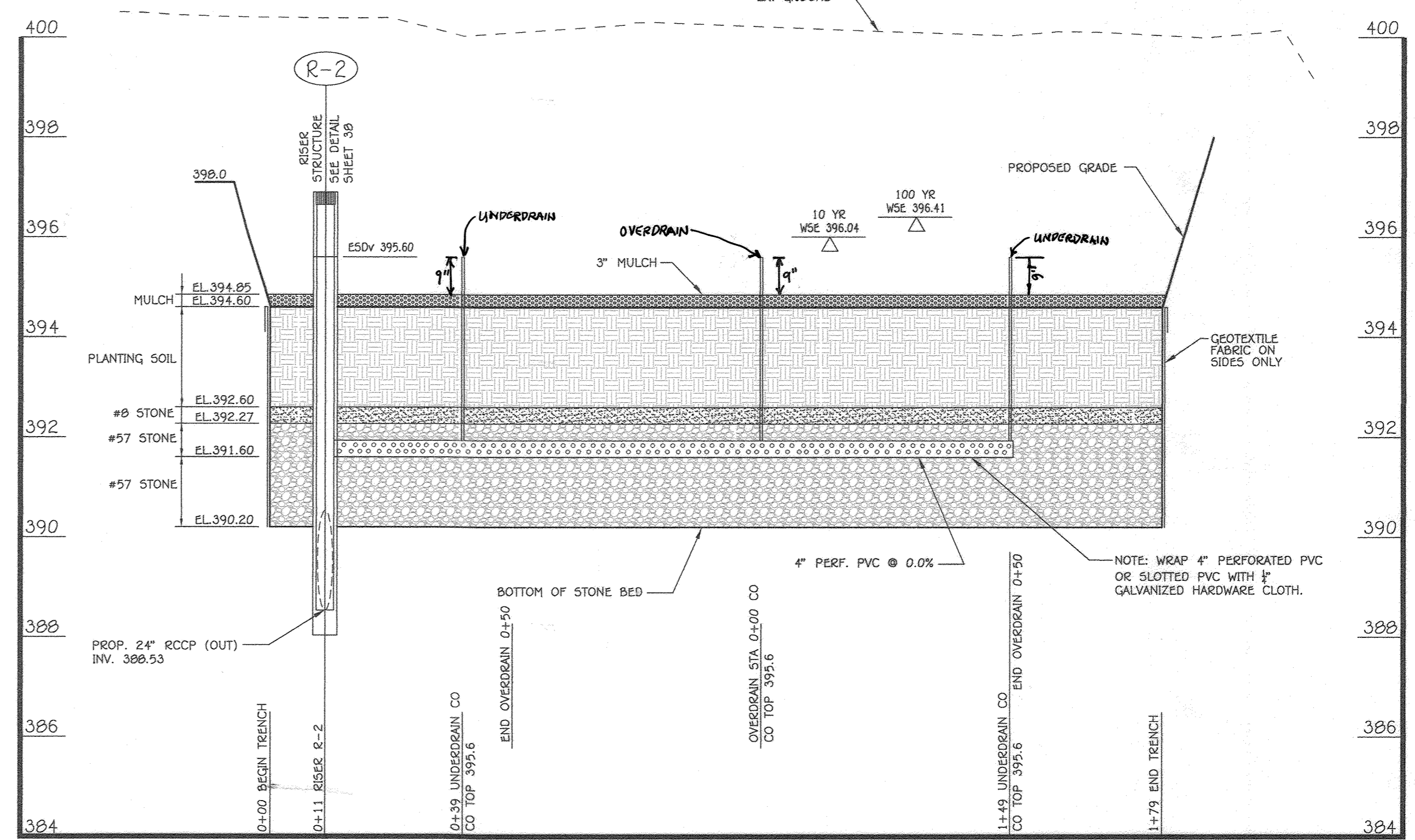
SEE SHEETS 45-49 FOR REVISED S.W.M.F. #1 PLANS



**BMP #1 SECTION A-A PROFILE**  
SCALE: HORIZ: 1" = 20'  
VERT: 1" = 2'



**BMP #2 SECTION B-B PROFILE**  
SCALE: HORIZ: 1" = 20'  
VERT: 1" = 2'



**BMP #2 UNDERDRAIN PROFILE**  
(SECTION B-B)  
SCALE: HORIZ: 1" = 20'  
VERT: 1" = 2'

\* ALL OVERDRAINS TO HAVE ATRIUM CAPS.

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CONTONAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2999

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephen J. Tuite*  
STEPHEN J. TUITE, R.L.A., P.E., LEED AP BC&D  
DATE 9/1/20

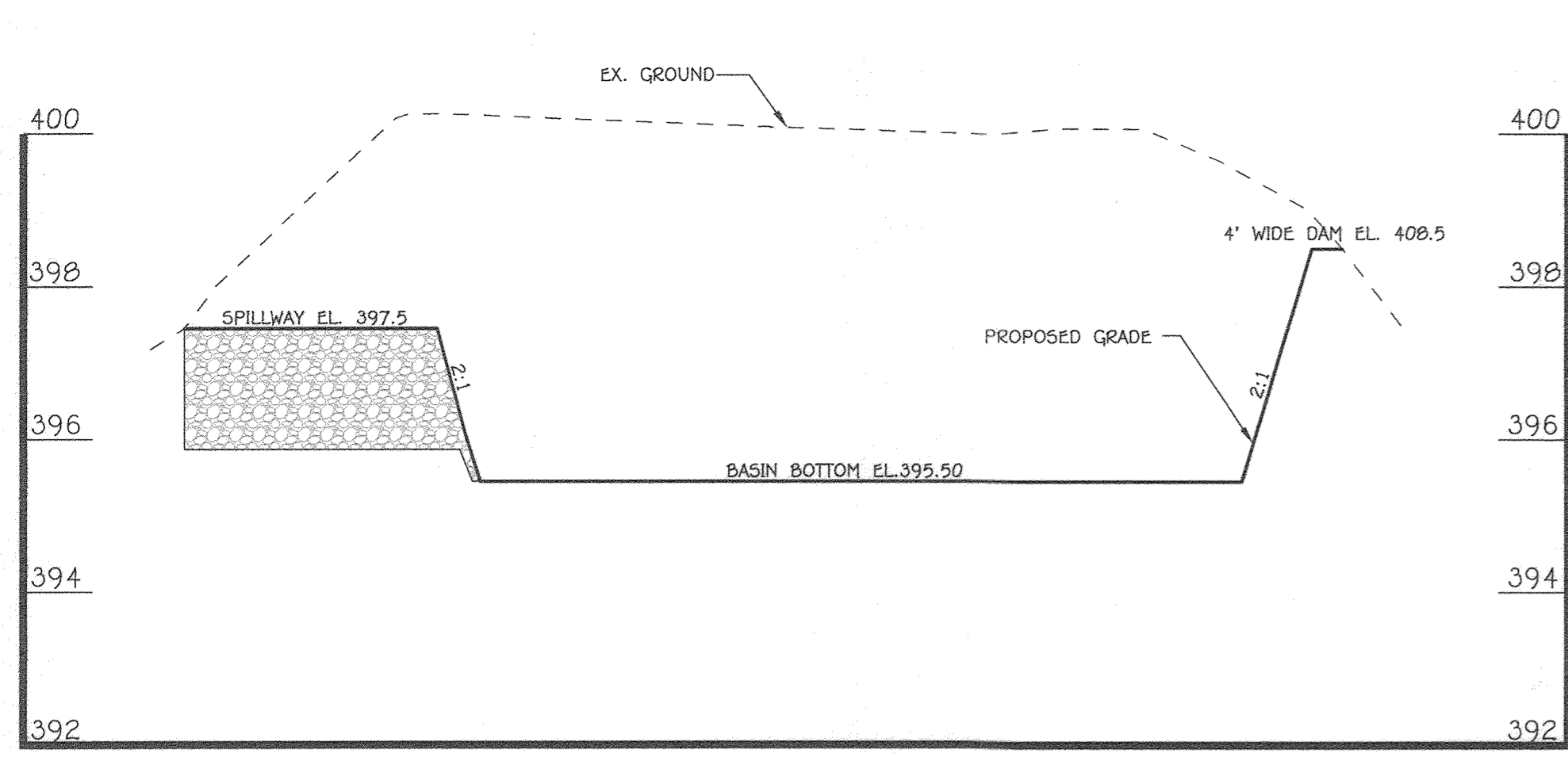
7/7/22	DELETED PROFILES AND REVISED SHEET NUMBER
9/9/21	ADDED DRAIN LABELS & DIMENSIONS
DATE	DESCRIPTION
REVISION BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
Director - Department of Planning and Zoning	<u>10-16-20</u> Date
Chief, Division of Land Development	<u>colulza</u> Date
Chief, Development Engineering Division	<u>10.2.20</u> Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203

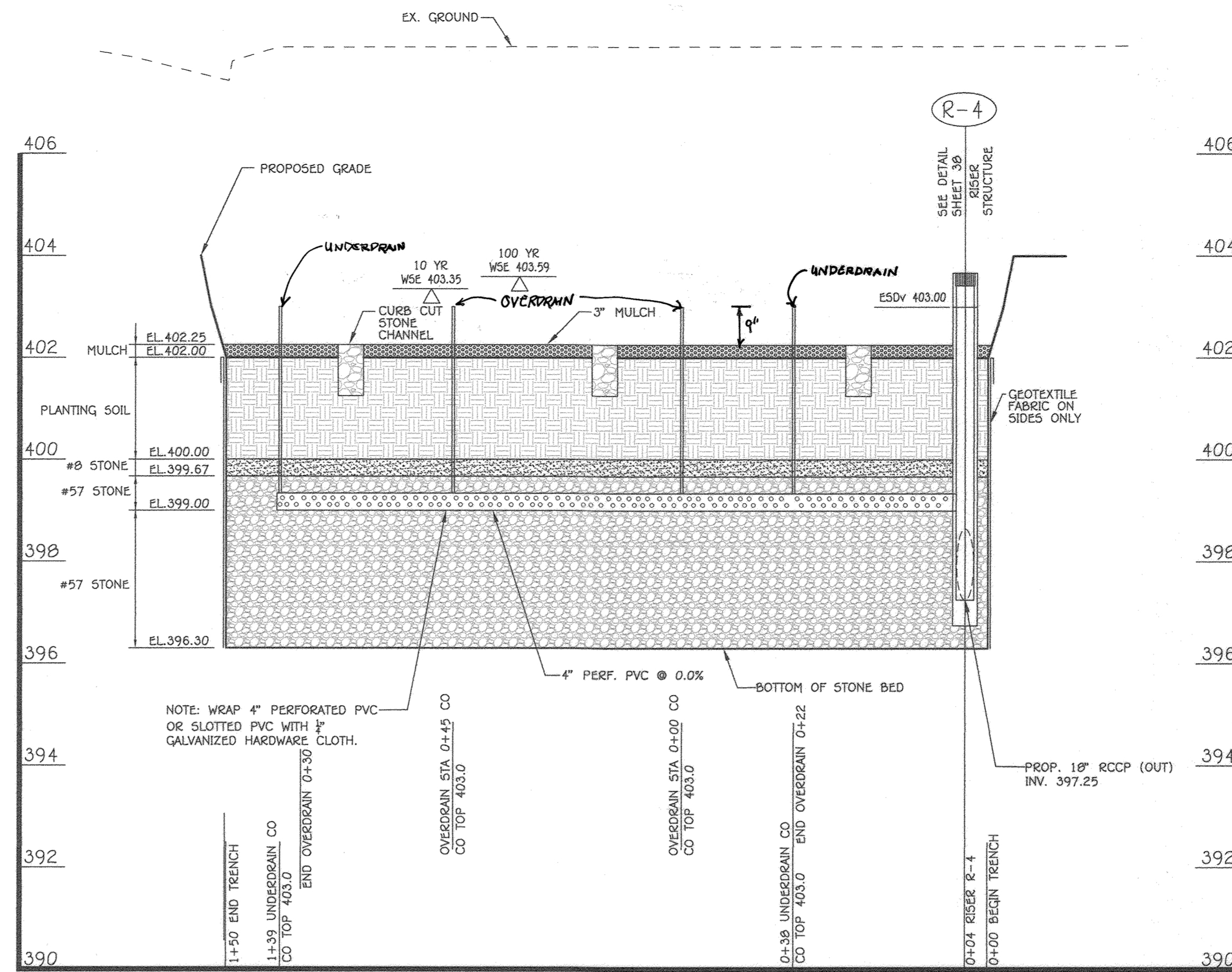


Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

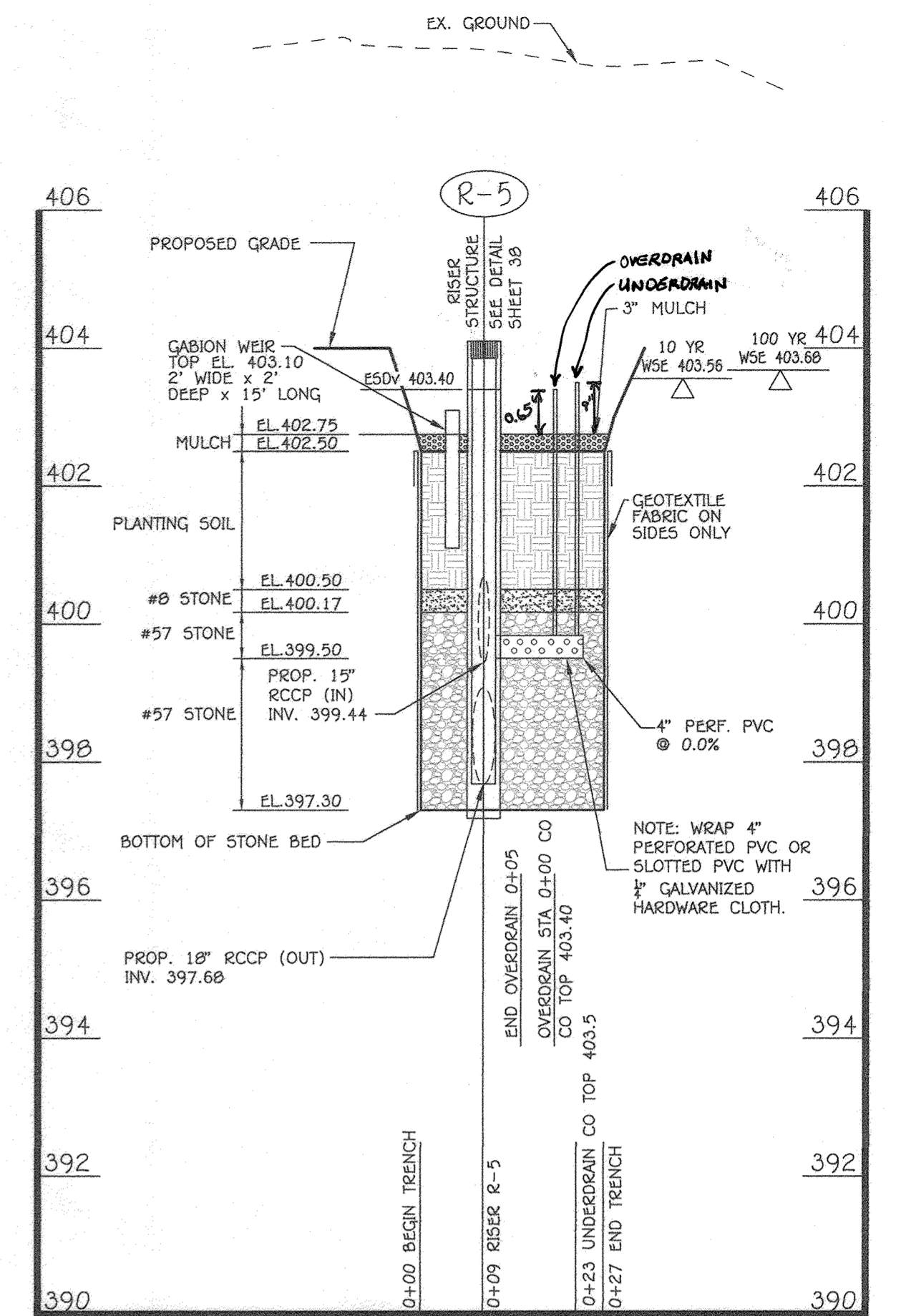
**SWM PROFILES**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 35 OF 40



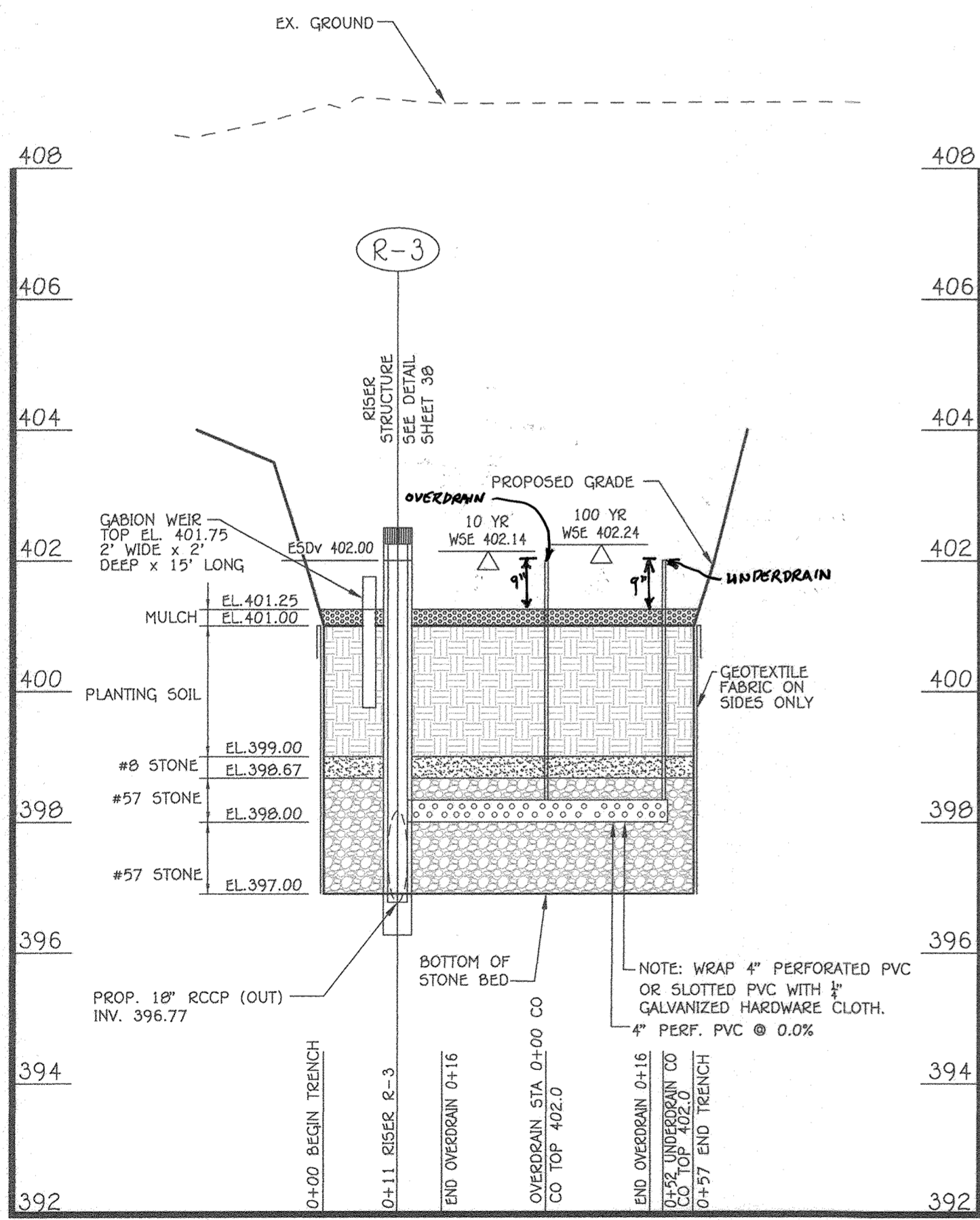
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SCALE: HORZ: 1" = 20'  
VERT: 1" = 2'



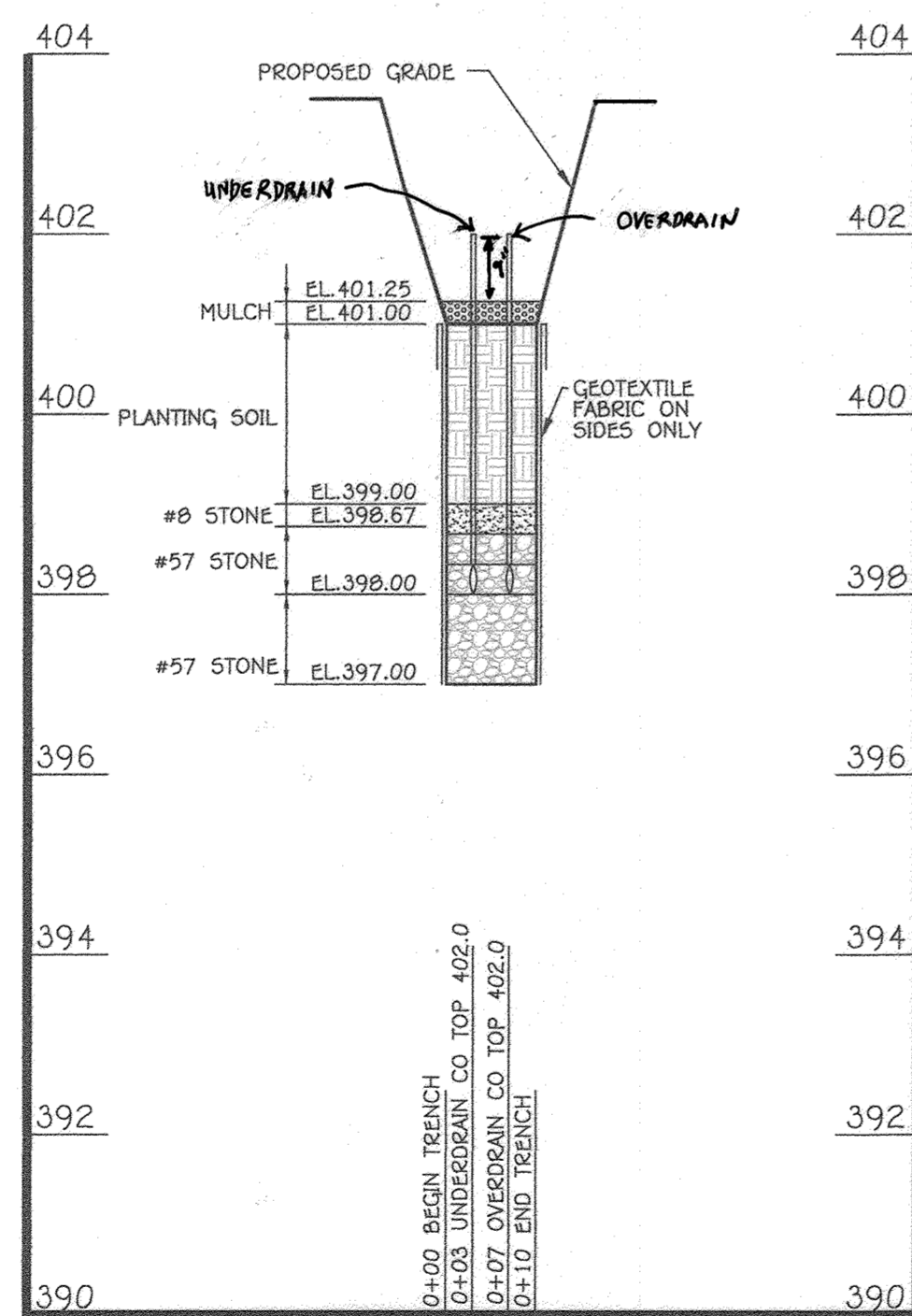
**BMP #4 UNDERDRAIN PROFILE**  
(SECTION D-D)  
SCALE: HORZ: 1" = 20'  
VERT: 1" = 2'



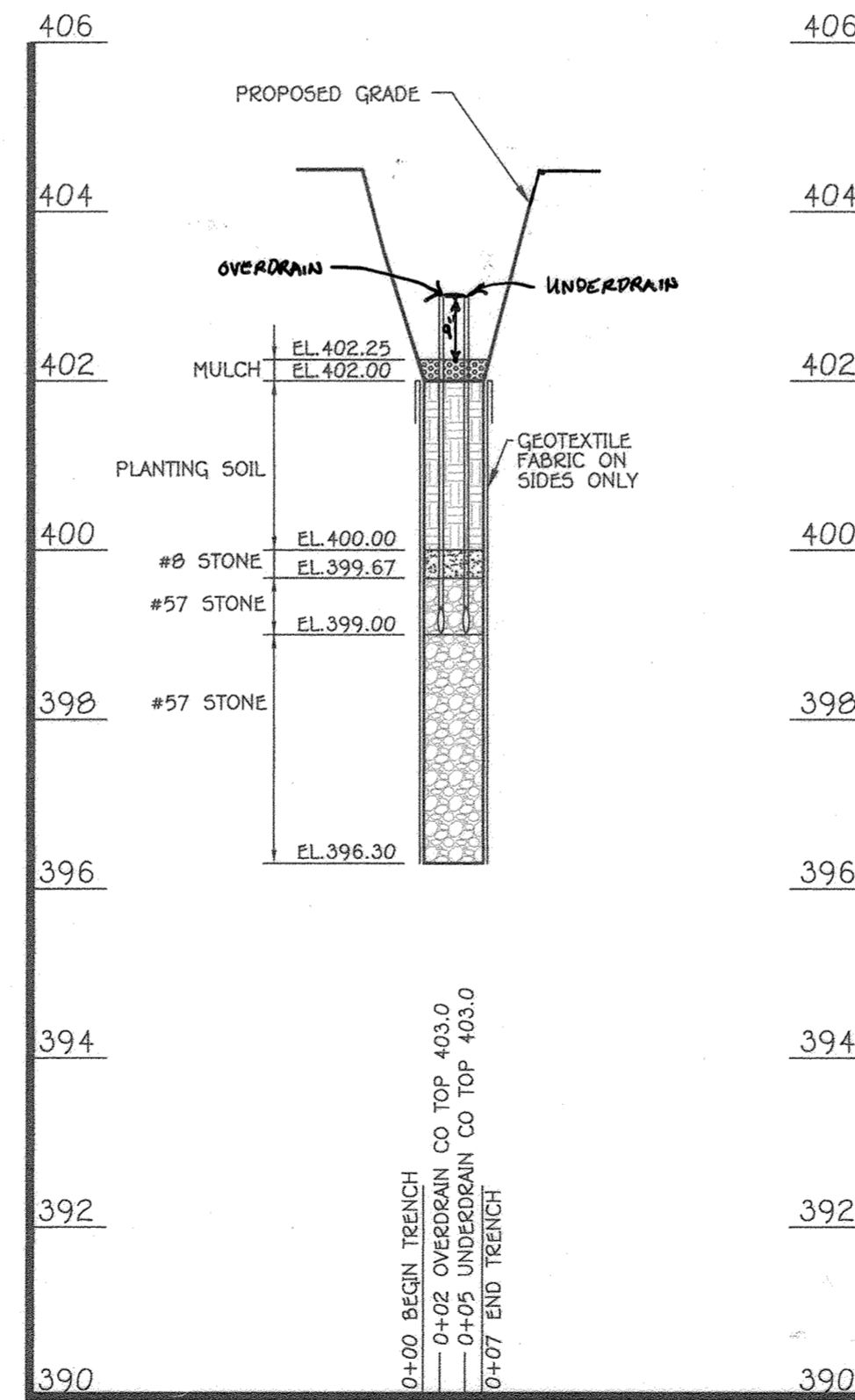
**BMP #5 UNDERDRAIN PROFILE**  
(SECTION E-E)  
SCALE: HORZ: 1" = 20'  
VERT: 1" = 2'



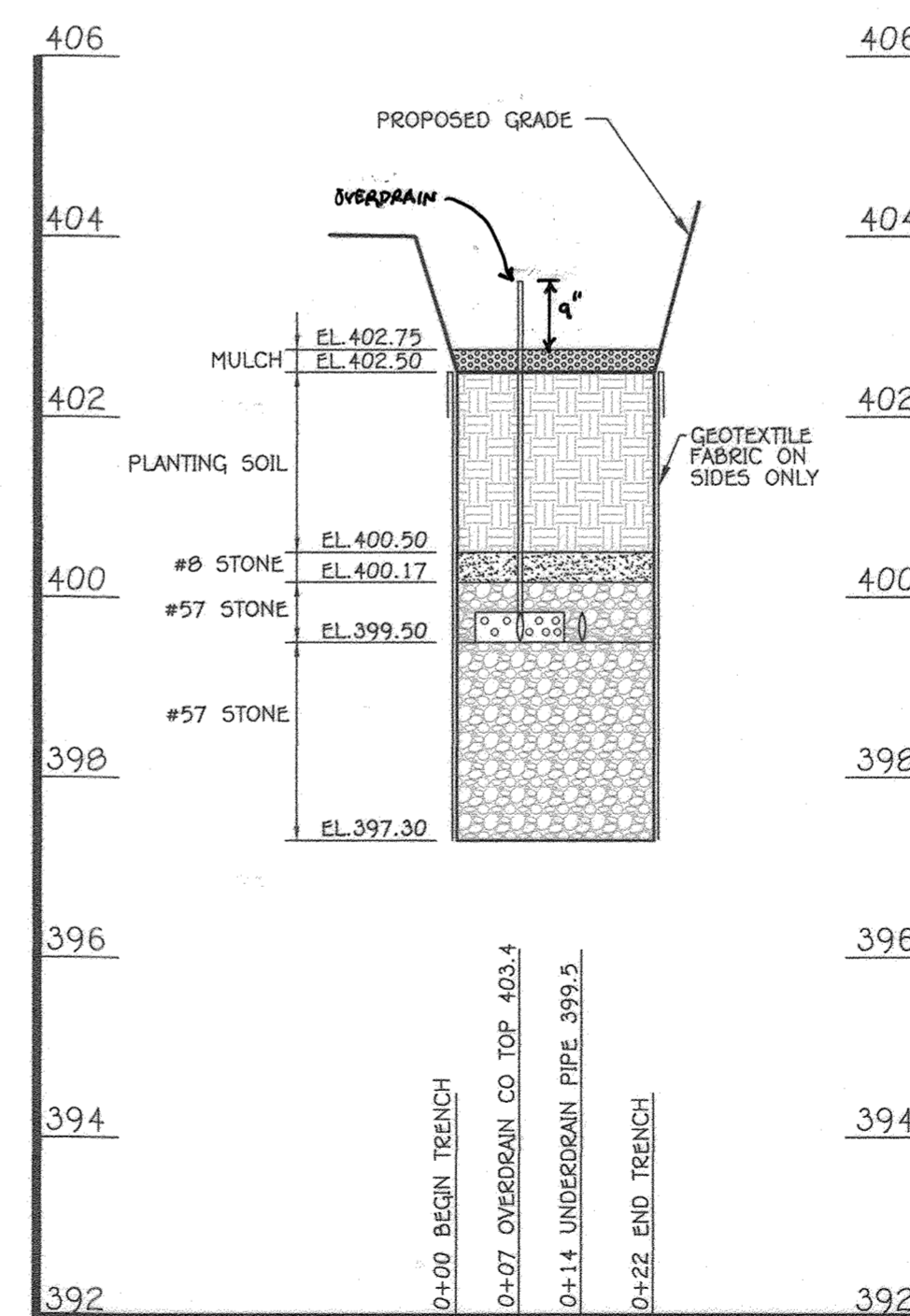
**BMP #3 UNDERDRAIN PROFILE**  
(SECTION C-C)  
SCALE: HORZ: 1" = 20'  
VERT: 1" = 2'



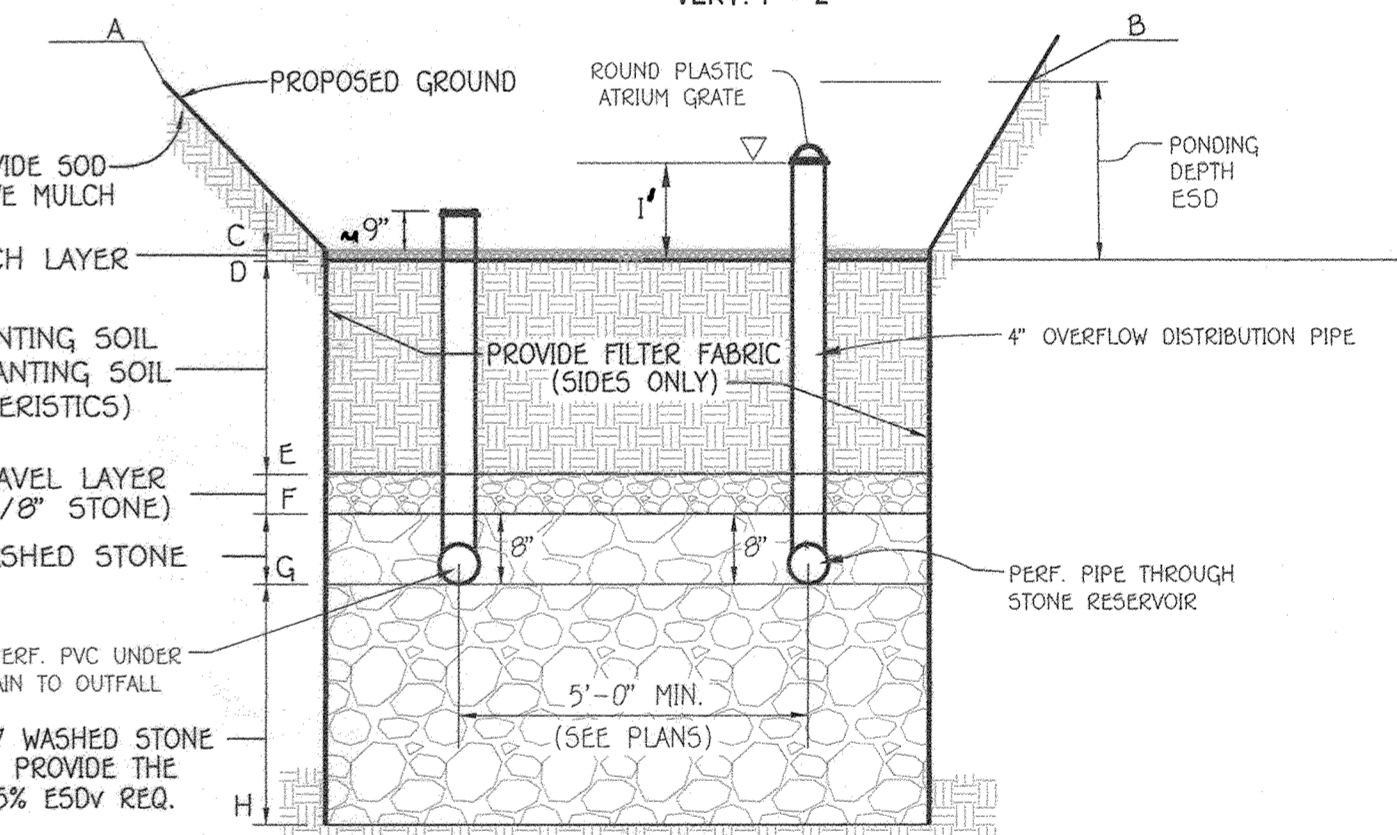
**BMP #3 SECTION C-C PROFILE**  
SCALE: HORZ: 1" = 20'  
VERT: 1" = 2'



**BMP #4 SECTION D-D PROFILE**  
SCALE: HORZ: 1" = 20'  
VERT: 1" = 2'



**BMP #5 SECTION E-E PROFILE**  
SCALE: HORZ: 1" = 20'  
VERT: 1" = 2'



**MICRO-BIORETENTION SECTION WITH 4" OVERFLOW DISTRIBUTION PIPE (#1 THRU #5 & #7)**  
NO SCALE

MICRO-BIORETENTIONS									
MICRO-BIO FILTER	A	B	C	D	E	F	G	H	I
#1	404.50	398.50	394.25	394.00	392.00	391.67	391.00	389.50	1.00%
#2	401.00	396.00	394.00	394.50	392.50	392.27	391.50	389.20	0.95%
#3	404.00	404.00	401.25	401.00	399.00	398.67	398.00	397.00	0.75%
#4	403.67	403.67	402.25	402.00	400.00	399.67	399.00	398.50	0.75%
#5	403.91	405.33	402.75	402.50	400.50	400.17	399.50	397.50	0.65%
#6									
#7	403.24	406.00	402.75	402.50	400.50	400.17	399.50	399.00	0.40%

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE: 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CONTINENTAL SOURCE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2999

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 30386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuite*  
STEPHANIE J. TUITE, R.L.A., P.E., LEED AP BC&D  
9/1/20  
DATE

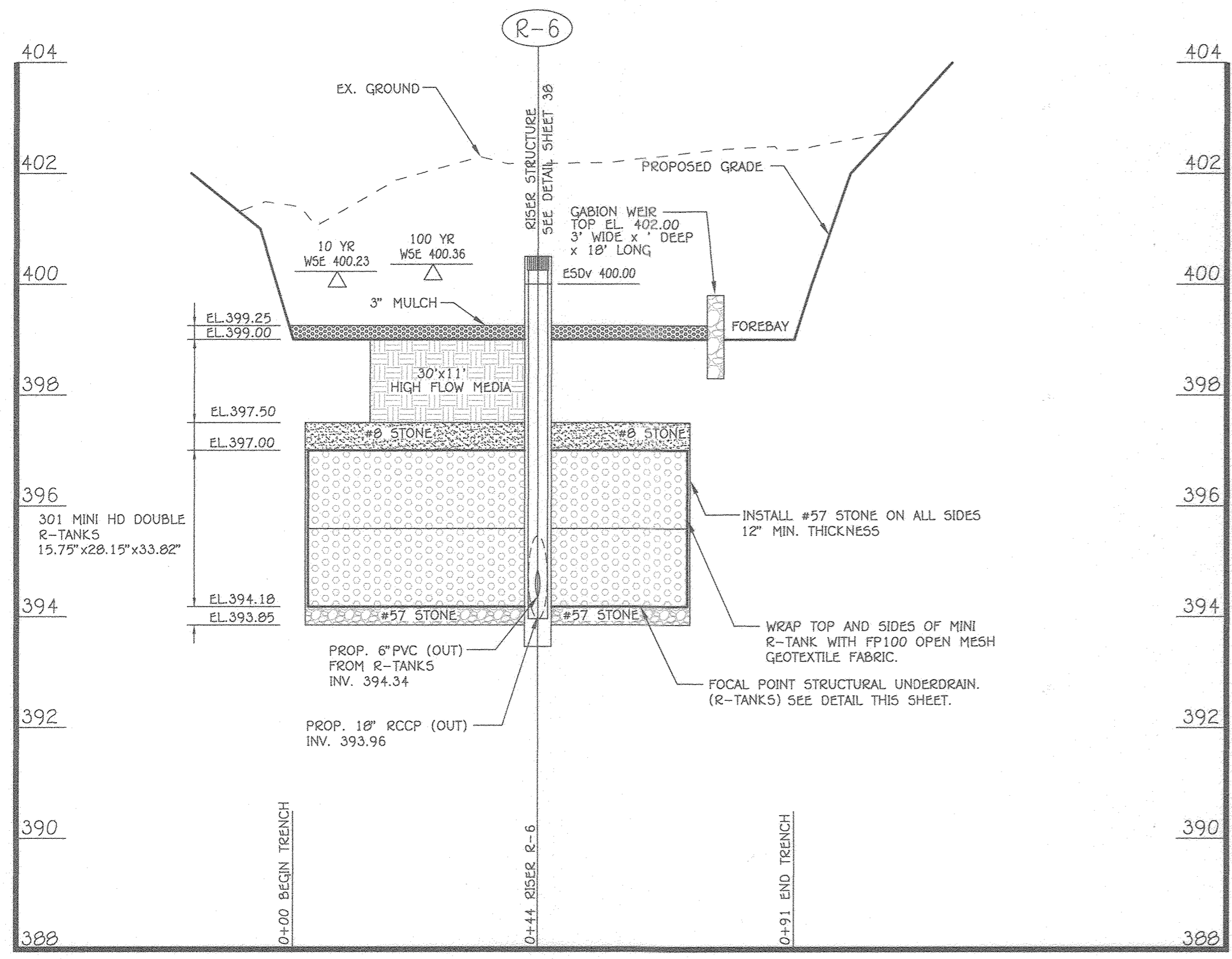
7/7/22 REVISED SHEET NUMBER  
3/2/21 REVISED MICRO-BIORETENTION CAPS  
DATE DESCRIPTION REVISION BLOCK  
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Director - Department of Planning and Zoning 10-16-20  
Date  
Chief, Division of Land Development  
Chief, Development Engineering Division 10-8-20  
Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203

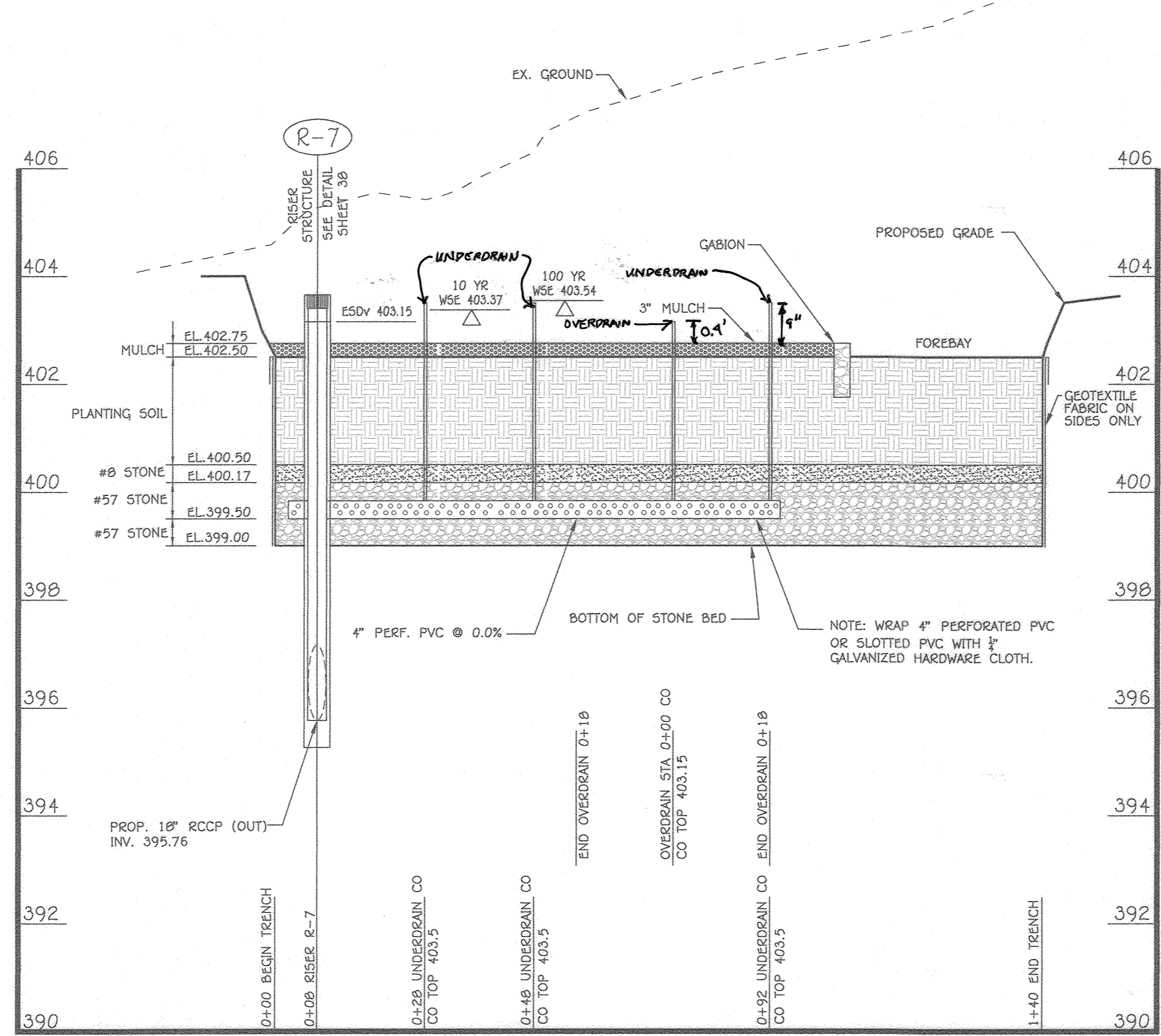


Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA				
ELEMENTARY SCHOOL	4/1				
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E. 03	5580800				

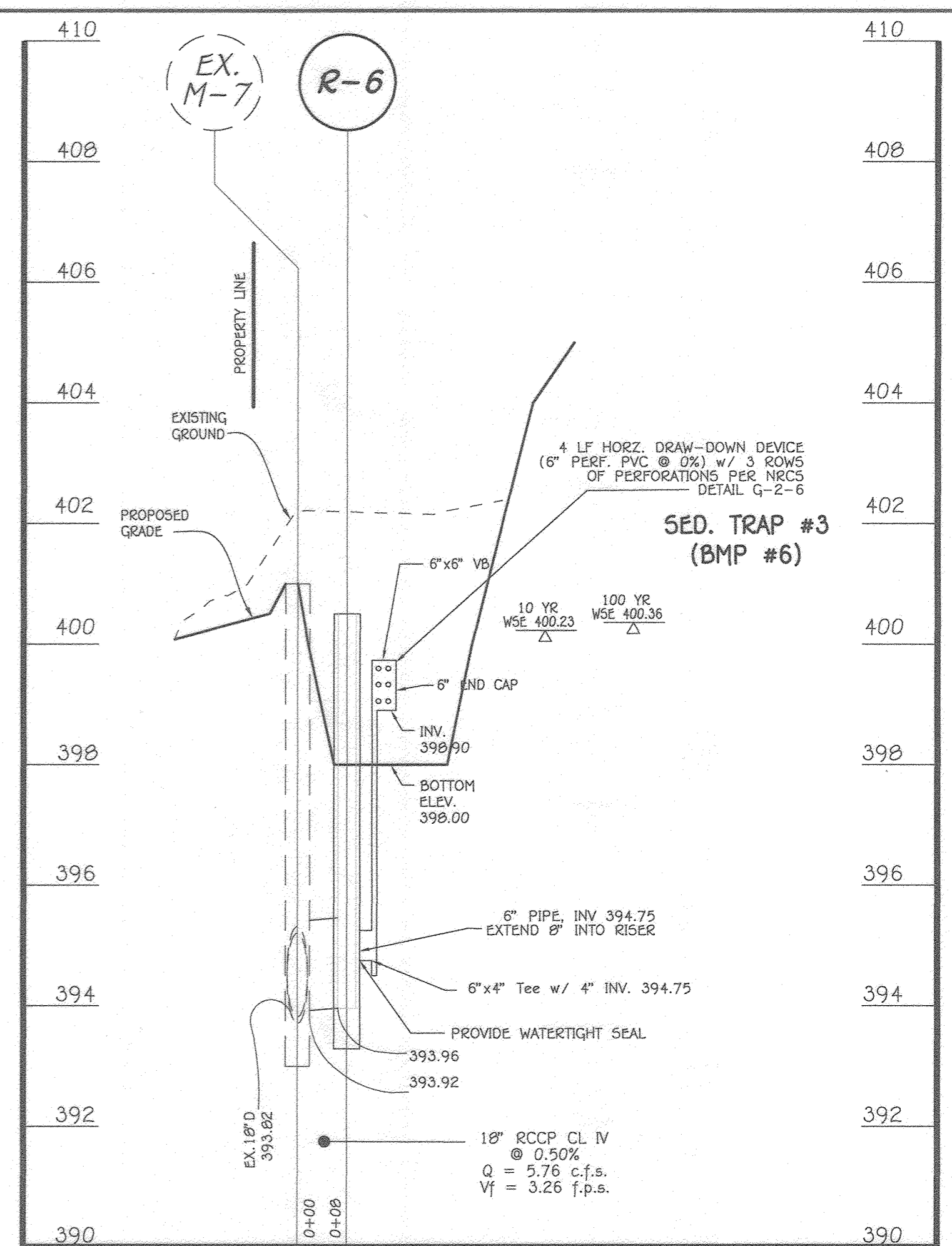
**SWM PROFILES**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 36 OF 49



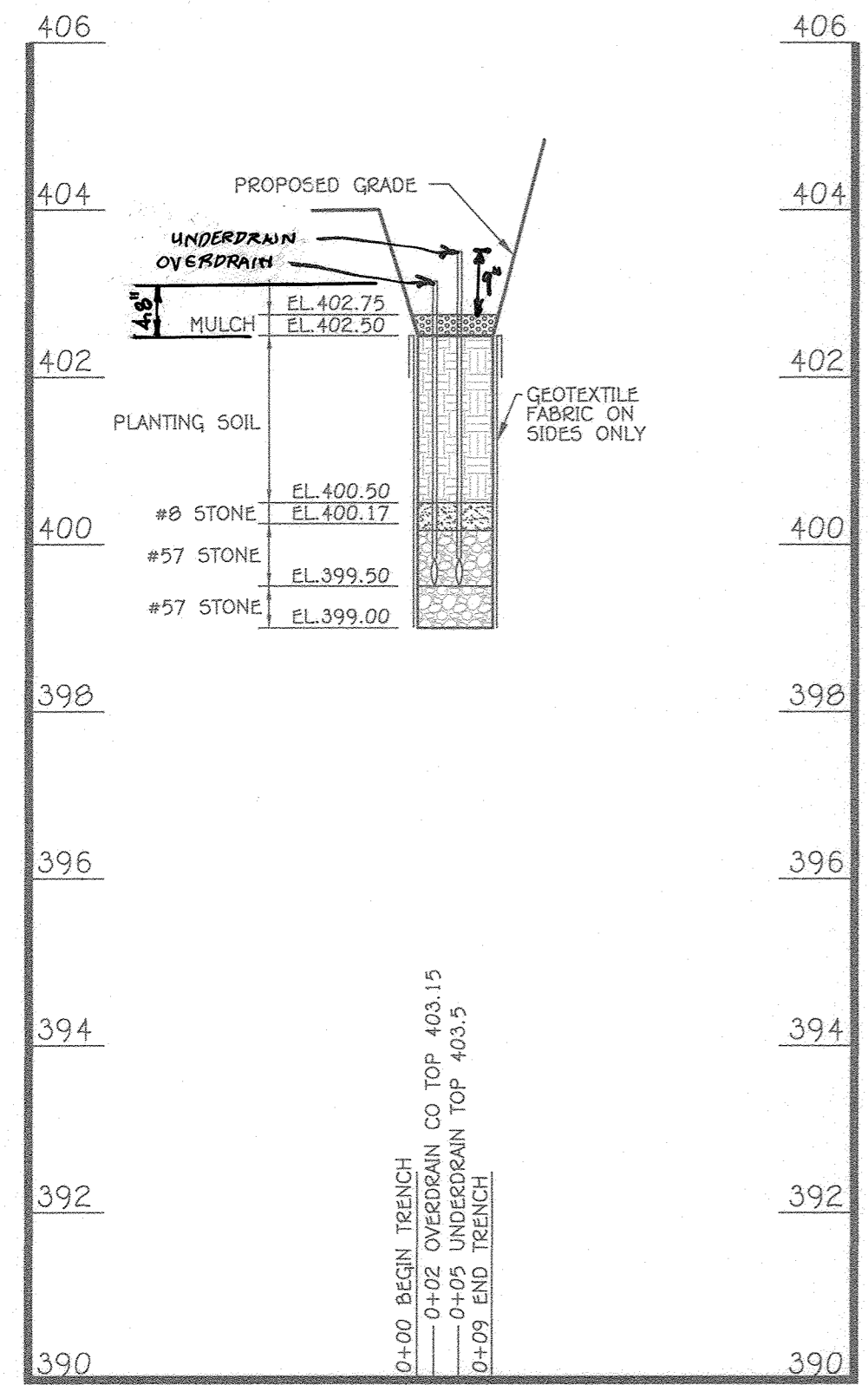
**BMP #6 PROFILE**  
(SECTION F-F)  
SCALE: HORIZ: 1" = 20'  
VERT: 1" = 2'



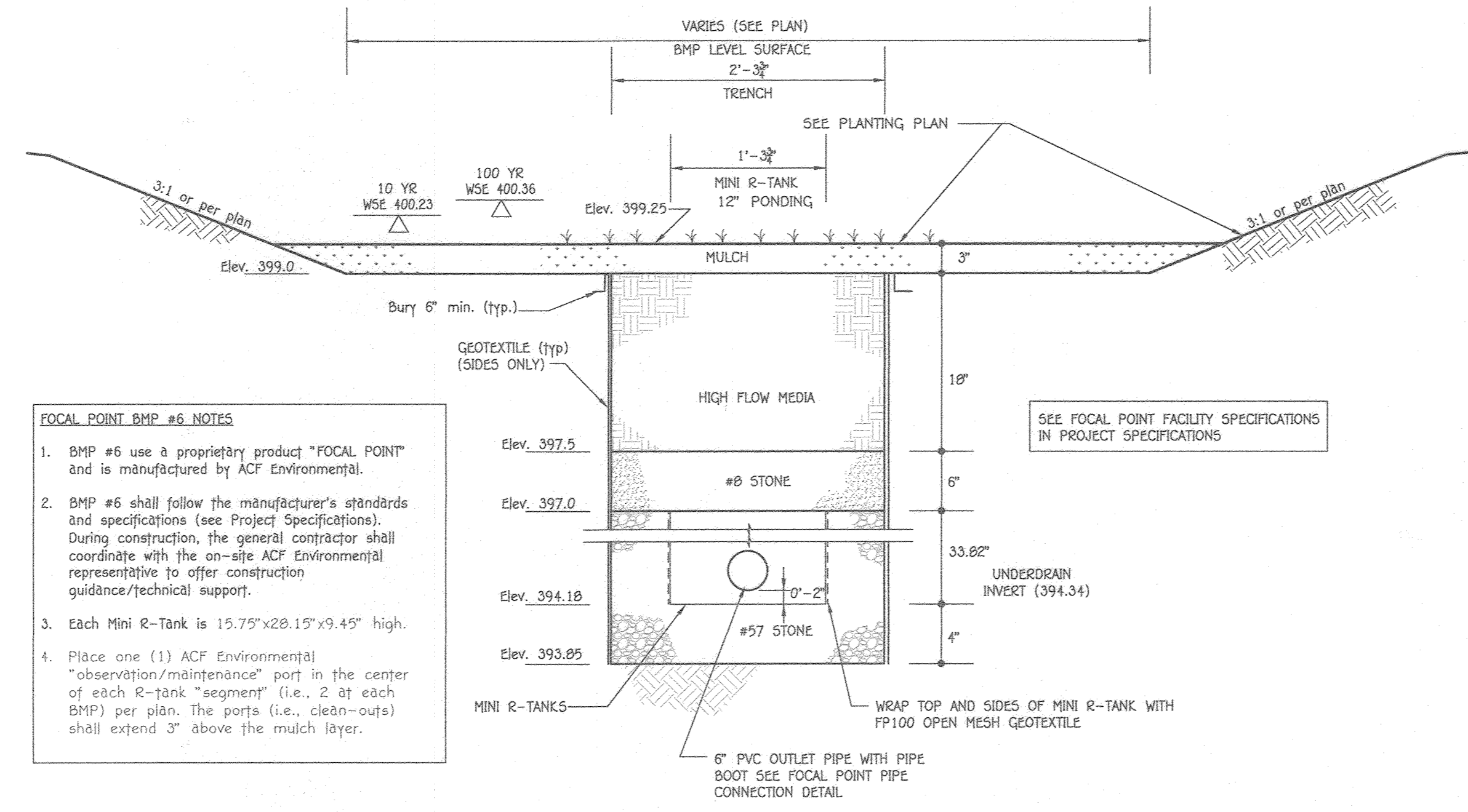
**BMP #7 UNDERDRAIN PROFILE**  
(SECTION G-G)  
SCALE: HORIZ: 1" = 20'  
VERT: 1" = 2'



**SEDIMENT TRAP #3 (BMP #6) SECTION**  
SCALE:  
HORIZ: 1" = 20'  
VERT: 1" = 2'

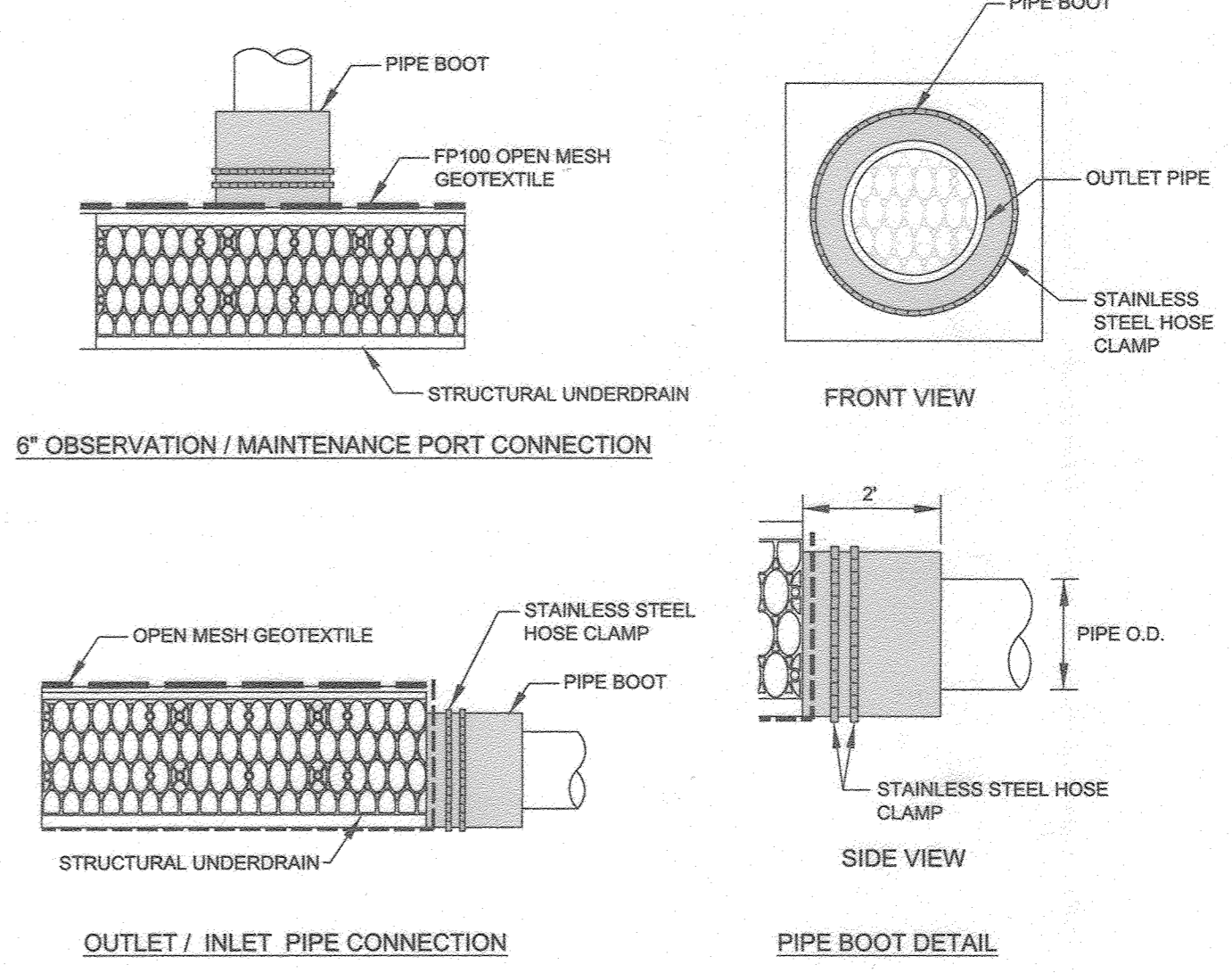


**BMP #7 SECTION G-G PROFILE**  
SCALE:  
HORIZ: 1" = 20'  
VERT: 1" = 2'



**BIORETENTION FACILITY (FOCAL POINT) BMP #6**  
**TYPICAL SECTION**  
NOT TO SCALE

- FOCAL POINT BMP #6 NOTES**
- BMP #6 use a proprietary product "FOCAL POINT" and is manufactured by ACF Environmental.
  - BMP #6 shall follow the manufacturer's standards and specifications (see Project Specifications). During construction, the general contractor shall coordinate with the on-site ACF Environmental representative to offer construction guidance/technical support.
  - Each Mini R-Tank is 15.75"x28.15"x9.45" high.
  - Place one (1) ACF Environmental "observation/maintenance" port in the center of each R-tank "segment" (i.e., 2 at each BMP) per plan. The ports (i.e., clean-outs) shall extend 3" above the mulch layer.



**FOCAL POINT STRUCTURAL UNDERDRAIN PIPE CONNECTION DETAIL**  
NOT TO SCALE

\*ALL OVERDRAINS TO HAVE ATRIUM CAPS.

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE: 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21041  
(410) 461-2995

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 36386, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuttle*  
STEPHANIE J. TUTTLE, P.L.E., LEED AP BC&D  
9/16/20  
DATE

DATE	REVISION	DESCRIPTION
7/7/22	REVISED SHEET NUMBER	
9/9/21	REVISED BMP #7 SECTION G-G PROFILE	

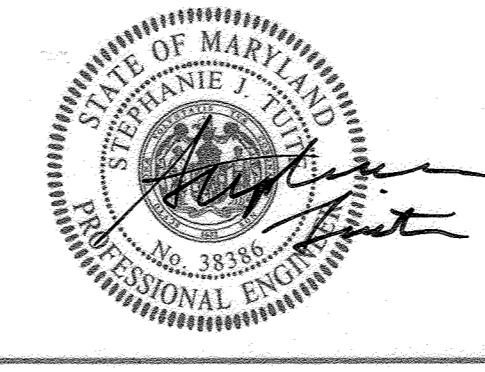
APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director, Department of Planning and Zoning: *10-16-20*  
Date

Chief, Division of Land Development: *10-16-20*  
Date

Chief, Development Engineering Division: *10-16-20*  
Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-0203



Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

PROJECT	SECTION/AREA	PARCEL
ELEMENTARY SCHOOL	4/1	283

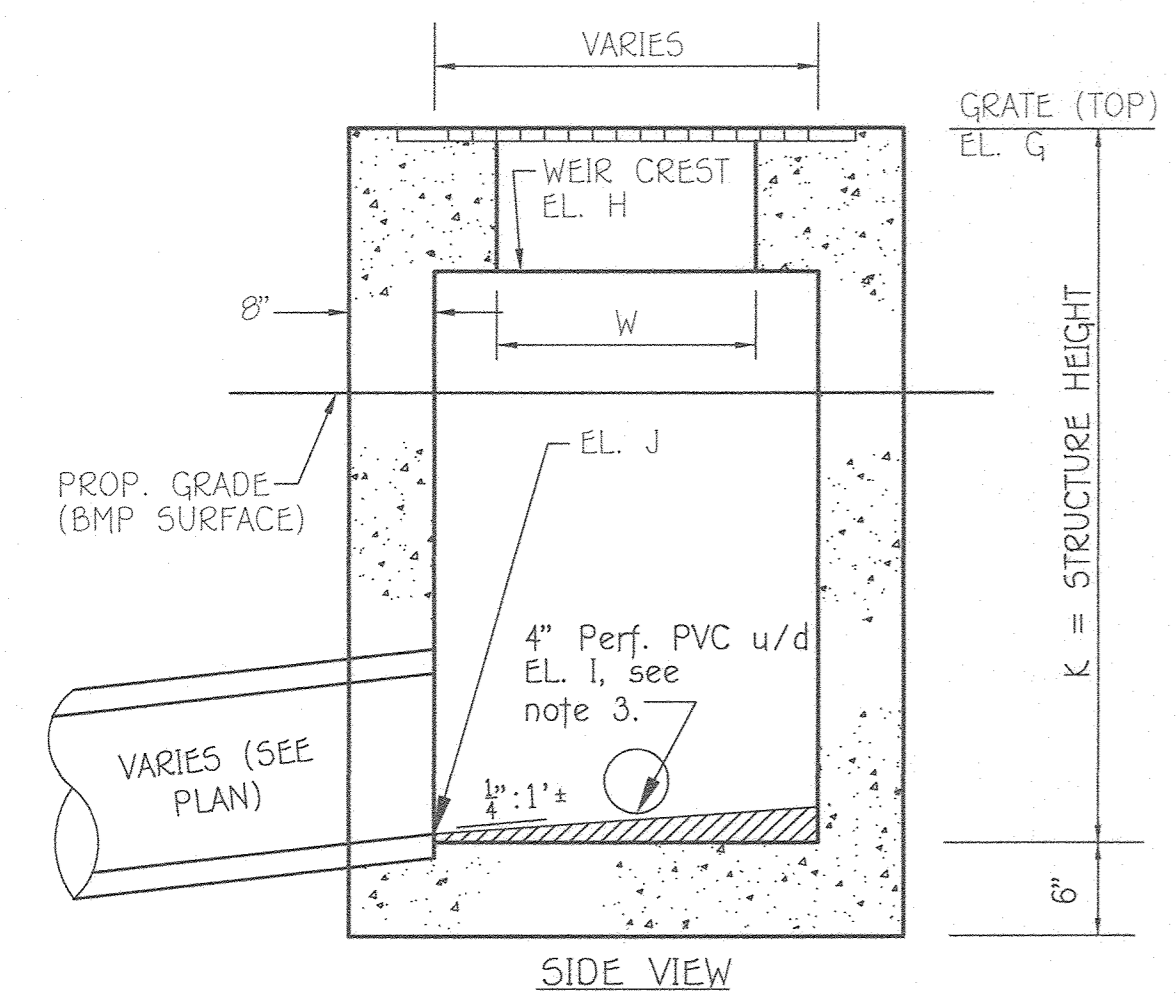
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603

WATER CODE	SEWER CODE
E 03	5580800

**SWM PROFILES AND DETAILS**

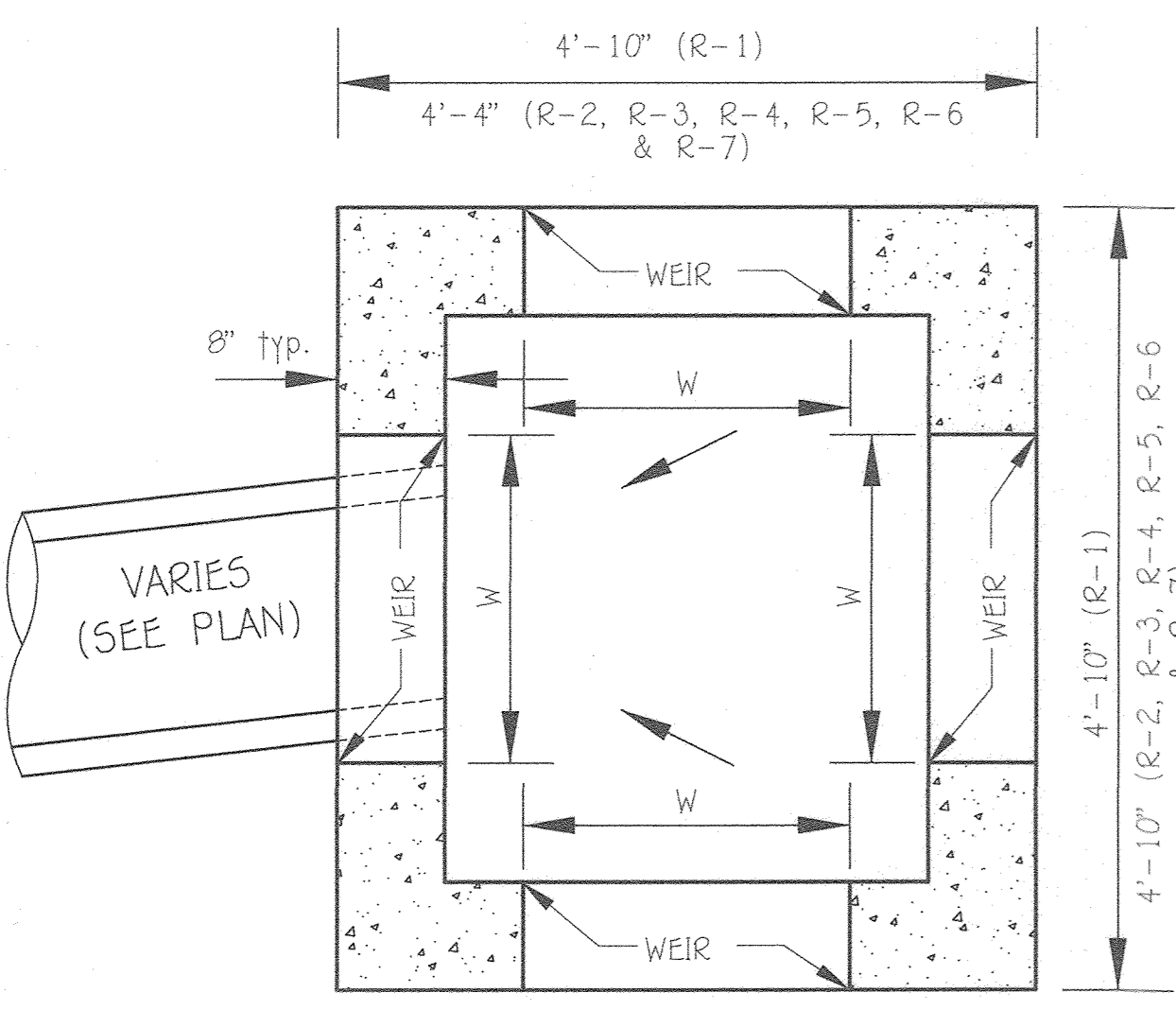
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL

ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 37 OF 40



- NOTES:
1. SEE MSHA STD DETAIL MD-370.11 FOR DETAILS NOT SHOWN ABOVE.
  2. ALL STRUCTURAL REQUIREMENTS SHALL CONFORM TO THE D-INLET HO. CO. STD. (DETAIL D-4.10) REQUIREMENTS DUE TO THE INCREASED INLET DEPTH, OR AS CERTIFIED BY A PROFESSIONAL ENGINEER ON THE SHOP DRAWING.
  3. NO CONCRETE GUTTER APPROACHES ARE USED FOR THESE STRUCTURES.
  4. SLOPE RISER INVERT  $\frac{1}{2}$ :1 TOWARD RCCP OUTFALL. USE  $2\frac{1}{2}$ " MIN. MORTAR THICKNESS.
  5. PROVIDE STEPS PER HOCC STD. DETAIL G-5.21.
  6. CHAMFER EXPOSED EDGES  $\frac{1}{2}$ " x  $\frac{1}{2}$ ", INCLUDING WEIR CRESTS.
  7. ORIENT INLET AS SHOWN ON SDP (GRATE SUPPORT WALL IS HATCHED).
  8. SEE PLAN FOR LOCATION OF 4" UNDERDRAIN CONNECTION TO INLET.

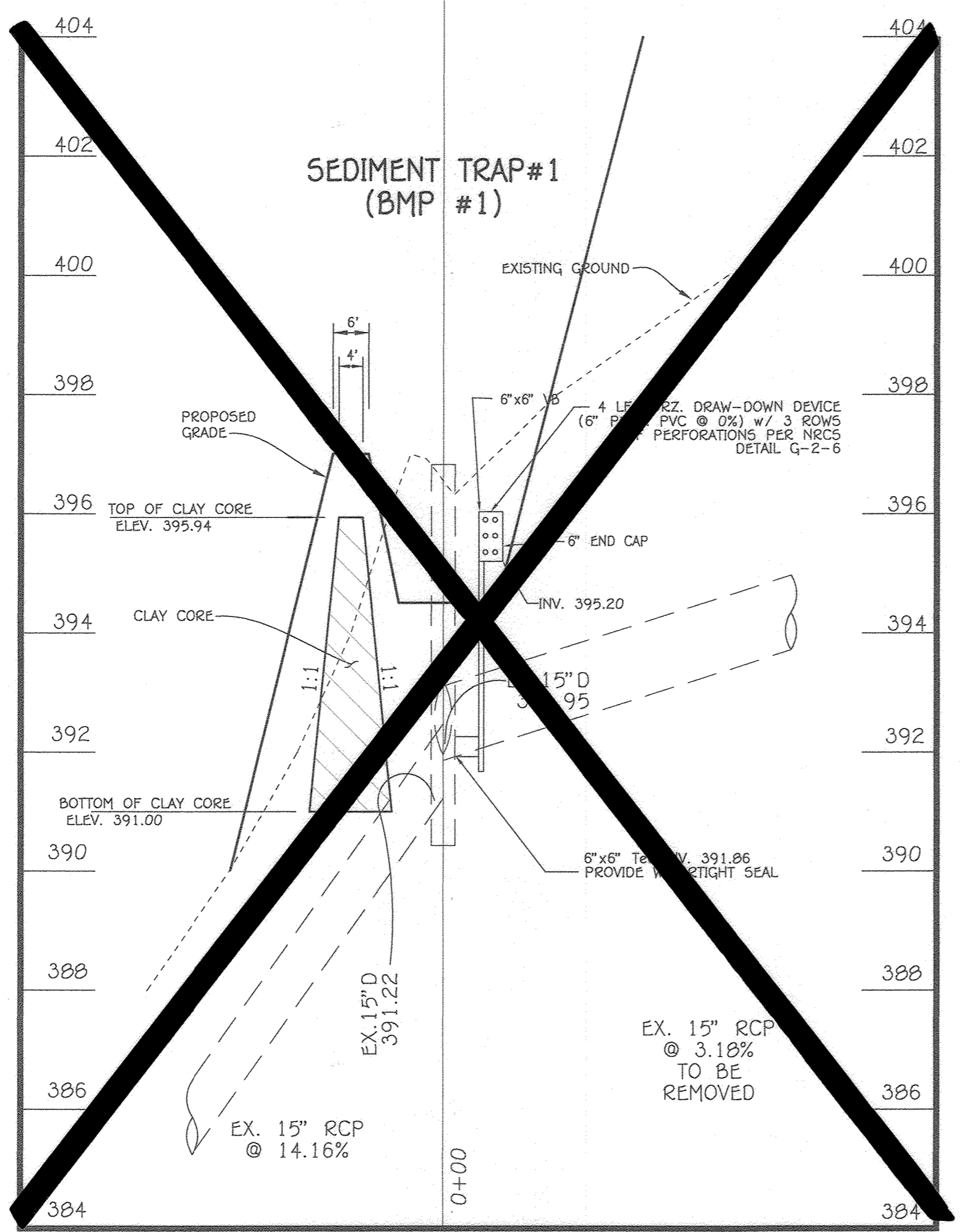
**BMP RISER STRUCTURE TYPICAL SECTION (MODIFIED K-INLET) NTS**



**PLAN VIEW NTS**

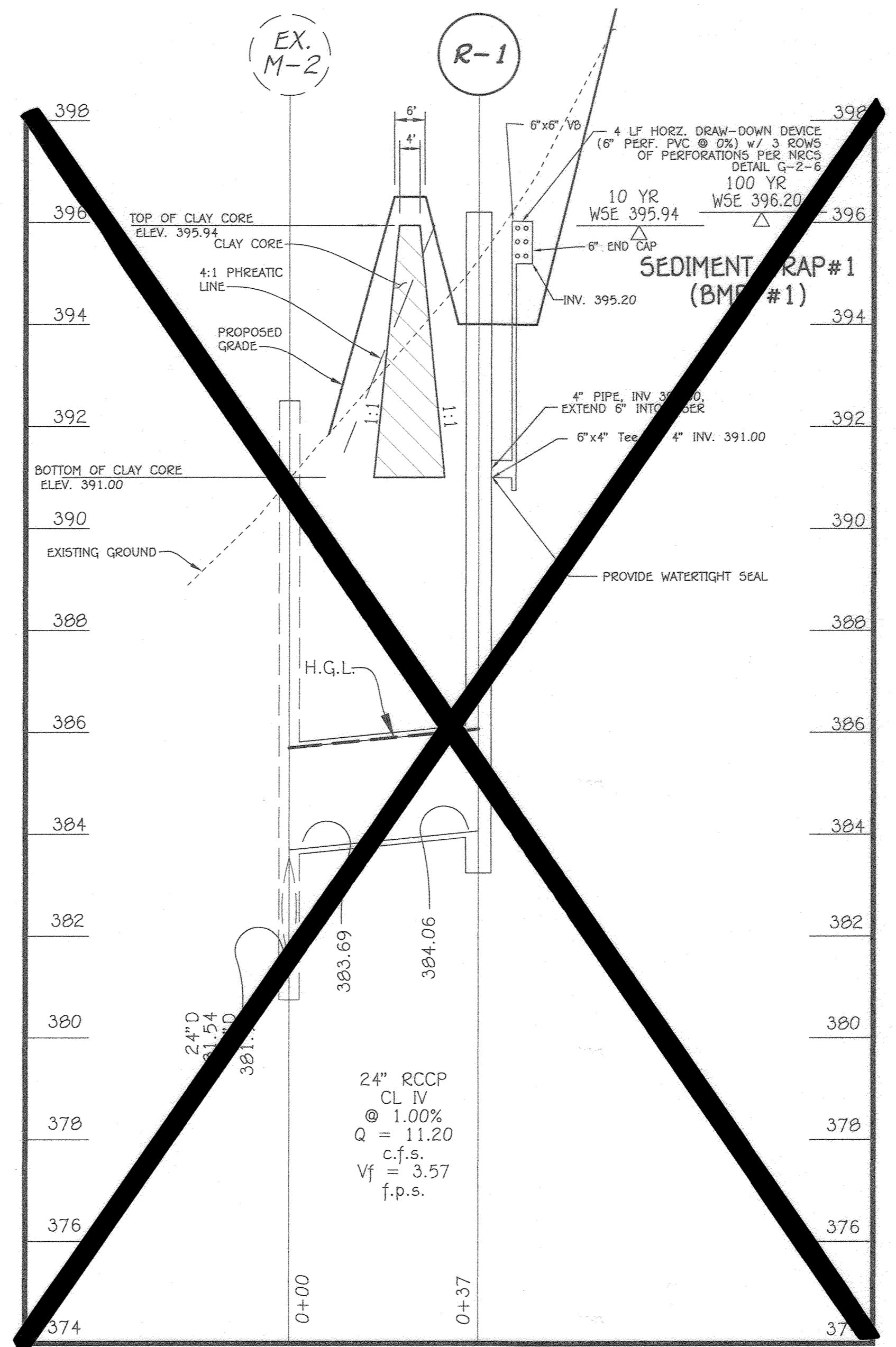
NOTE: GRATE NOT SHOWN IN ORDER TO SHOW DIMENSIONS.

	BMP #1 R-1	BMP #2 R-2	BMP #3 R-3	BMP #4 R-4	BMP #5 R-5	BMP #6 R-6	BMP #7 R-7
ELEV. G TOP OF GRATE	396.00	396.90	402.50	403.67	403.90	400.50	403.65
ELEV. H WEIR CREST	395.50	395.60	402.00	403.00	403.40	400.00	403.15
INV. 4" U/D	391.00	391.60	398.00	399.00	399.50	395.88 (6")	399.50
ELEV. J RCCP INV. OUT	386.99	388.53	396.77	397.25	397.88	393.96	395.76
W WEIR WIDTH	3.0' ON 4 SIDES	2.0' ON 4 SIDES	2.0' ON 4 SIDES	2.5' ON 4 SIDES	2.0' ON 4 SIDES	2.0' ON 3 SIDES(N,S,E)	2.0' ON 2 SIDES(N,S)
K STR. HEIGHT	2.01'	0.37'	5.73'	6.42'	6.22'	6.54'	7.89'



**SEDIMENT TRAP #1 (TEMPORARY) SECTION**

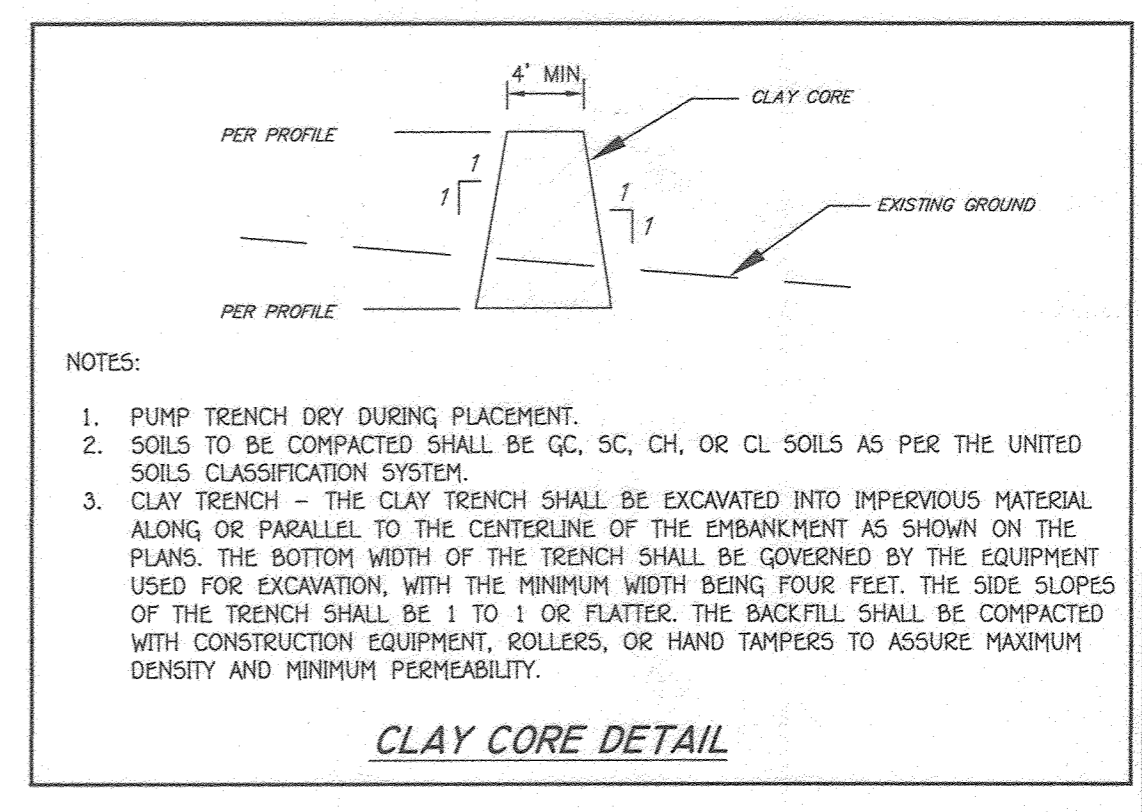
SEE SHEETS 45-49 FOR REVISED S.W.M.F. #1 PLANS



**SEDIMENT TRAP #1 (BMP #1) SECTION**

- OPERATION AND MAINTENANCE SCHEDULE FOR BIORETENTION BMPs #1 THRU #7**
- 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:
1. 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.
  2. 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.
  3. 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.
  4. SPILLWAY OUTFALL, INTERIOR SLOPES: ERODED AREAS SHALL BE REPAIRED (FILLED IN AND SEEDED) AS NEEDED. BARE AREAS SHALL BE TREATED AND RE-SEEDED.
  5. INLET: REPAIR CRACKS, DAMAGED CONCRETE, ETC. AS NECESSARY.
  6. REMOVE AND PROPERLY DISPOSE ACCUMULATED SEDIMENT GREATER THAN ONE (1) INCH.
- NOTES:
1. IF SPECIFIC PLANTS ARE NOT SURVIVING, THE PLANT TYPE SHOULD CHANGED TO BETTER-SUITED SPECIES.
  2. PLANT WATERING MAY BE NEEDED DURING PROLONGED DRY PERIODS.
- BIORETENTION FACILITY NOTES AND SPECIFICATIONS**
1. REFER TO THE LATEST MARYLAND SWM DESIGN MANUAL FOR BIORETENTION SPECIFICATIONS FOR INFORMATION NOT LISTED HEREIN AND FOR ADDITIONAL INFORMATION.
  2. THE BIORETENTION BMP MATERIALS ARE AS FOLLOWS:
    - PLANTING SOIL: PER PLANTING SOIL SPECIFICATIONS OUTLINED IN MDE'S 2000 SWM MANUAL, APPENDIX B.4. AND INCLUDED ON THIS SHEET. DO NOT MECHANICALLY COMPACT PLANTING SOIL. HOWEVER, SOIL CAN BE WATERED/FLOODED TO FACILITATE SETTLING.
    - PVC UNDERDRAIN PIPE OUTSIDE BMP: SCHEDULE 40 SOLID PIPE WITH MINIMUM SLOPE OF 0.5% OR AS PER PLAN.
    - PVC UNDERDRAIN WITHIN BMP: SCHEDULE 40 AND PERFORATED WITH 0.5" HOLES. WRAP UNDERDRAIN WITH GALVANIZED 1/4" HARDWARE CLOTH (WELDED WIRE MESH). PROVIDE 3 - 0.5" HOLES EVENLY SPACED AROUND THE 4" UNDERDRAIN PIPE CIRCUMFERENCE. SPACE PERFORATIONS ALONG PIPE AT 6" ON CENTER. ADJACENT SETS OF PERFORATIONS SHALL BE STAGGERED AT 60°. PERFORATIONS SHALL TOTAL 1.18 sq. inch PER LF OF 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 MIRAFIT 140N.
    - MULCH: SHREDDED, WELL-AGED (6-12 MONTHS) HARDWOOD MULCH; NO WOOD CHIPS OR PINE MULCH.
  3. THE CONTRACTOR SHALL UNDER NO CIRCUMSTANCES ALLOW SURFACE DRAINAGE INTO THE MICRO-BIORETENTION BMPs (FACILITIES WITH PLANTING SOIL) UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED (I.E., PAVED, OR HAVE WELL-ESTABLISHED VEGETATION).
  4. BOARDS SHALL NOT BE LEFT IN PLACE DURING THE CONSTRUCTION OF THE BIORETENTION BMPs.
  5. THE CONTRACTOR SHALL UNDER NO CIRCUMSTANCES ALLOW SURFACE DRAINAGE INTO THE MICRO-BIORETENTION BMPs (FACILITIES WITH PLANTING SOIL) UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED (I.E., PAVED, OR HAVE WELL-ESTABLISHED VEGETATION).
  6. THE CONTRACTOR SHALL PROVIDE TO THE OWNER AN INDEPENDENT CERTIFICATION THAT THE PLANTING SOILS AND OTHER BIORETENTION MATERIALS MEET THE SPECIFICATIONS.
  7. THE BIORETENTION FACILITIES SHALL BE VEGETATED (TOP LEVEL SURFACE ONLY) IN ACCORDANCE WITH THE PLANTING PLAN AND THE BMP SPECIFICATIONS IN MDE'S CURRENT STORMWATER MANAGEMENT DESIGN MANUAL.
  8. FOR UNDERDRAINS, USE PERFORATED PVC PIPE INSIDE THE BIORETENTION FACILITIES AND WRAP PERFORATED PIPE WITH 1/2" HARDWARE CLOTH TO PREVENT AGGREGATE FROM ENTERING THE PERFORATIONS.
  9. INSTALL CLEANOUTS (SOLID PVC PIPE) AS SHOWN. THE CLEANOUT TOP SHALL EXTEND 9" ABOVE TOP OF MULCH.
  10. THE LIMIT OF THE TYPICAL SECTION (I.E., PLANTING SOIL, AGGREGATE, ETC.) IS THE ENTIRE LEVEL SURFACE OF THE BIORETENTION FACILITY EXCLUDING FOREBAY AND 2' FROM THE FOREBAY GABIONS.
- GENERAL STORMWATER MANAGEMENT NOTES**
1. STORMWATER MANAGEMENT HAS BEEN PROVIDED WITH FOUR (4) BIORETENTION BMPs (F-6); THREE (3) MICRO-BIORETENTION BMPs (M-6). PLEASE REFER TO THE STORMWATER MANAGEMENT REPORT PREPARED BY FISHER, COLLINS, & CARTER, INC. DATED OCTOBER 21, 2019.
  2. 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.
  3. 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.
  4. 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.
  5. 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.
  6. 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.
  7. 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).
  8. THE STORMWATER MANAGEMENT BIORETENTION BMPs FOR THIS PROJECT WILL BE PRIVATELY OWNED AND MAINTAINED BY THE HOWARD COUNTY PUBLIC SCHOOL SYSTEM.
  9. THE BMPs SHALL BE AT LEAST 10 FT FROM THE SCHOOL BUILDING AS MEASURED FROM THE 1 ft DEPTH WATER SURFACE ELEVATION TO THE BUILDING.

- GENERAL STORMWATER MANAGEMENT NOTES**
1. STORMWATER MANAGEMENT HAS BEEN PROVIDED WITH FOUR (4) BIORETENTION BMPs (F-6); THREE (3) MICRO-BIORETENTION BMPs (M-6). PLEASE REFER TO THE STORMWATER MANAGEMENT REPORT PREPARED BY FISHER, COLLINS, & CARTER, INC. DATED OCTOBER 21, 2019.
  2. 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.
  3. 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.
  4. 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.
  5. 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.
  6. 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.
  7. 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).
  8. THE STORMWATER MANAGEMENT BIORETENTION BMPs FOR THIS PROJECT WILL BE PRIVATELY OWNED AND MAINTAINED BY THE HOWARD COUNTY PUBLIC SCHOOL SYSTEM.
  9. THE BMPs SHALL BE AT LEAST 10 FT FROM THE SCHOOL BUILDING AS MEASURED FROM THE 1 ft DEPTH WATER SURFACE ELEVATION TO THE BUILDING.



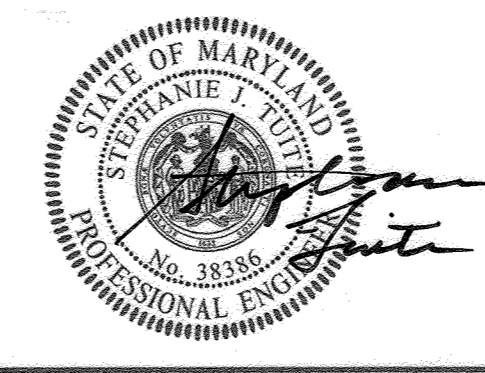
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE: 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
(410) 461-1299

\*PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022.\*  
*Stephanie Tuite*  
STEPHANIE TUITE, R.L.A. P.E., LEED AP BC&D  
9/11/20  
DATE

7/7/22	DELETED PROFILES AND REVISED SHEET NUMBER	
9/9/21	REMOVED BIORETENTION FACILITY STRUCTURE ELEVATION TABLE	
DATE	DESCRIPTION	
	REVISION BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	Director - Department of Planning and Zoning	10-16-20 Date
<i>[Signature]</i>	Chief, Division of Land Development	10-21-20 Date
<i>[Signature]</i>	Chief, Development Engineering Division	

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203

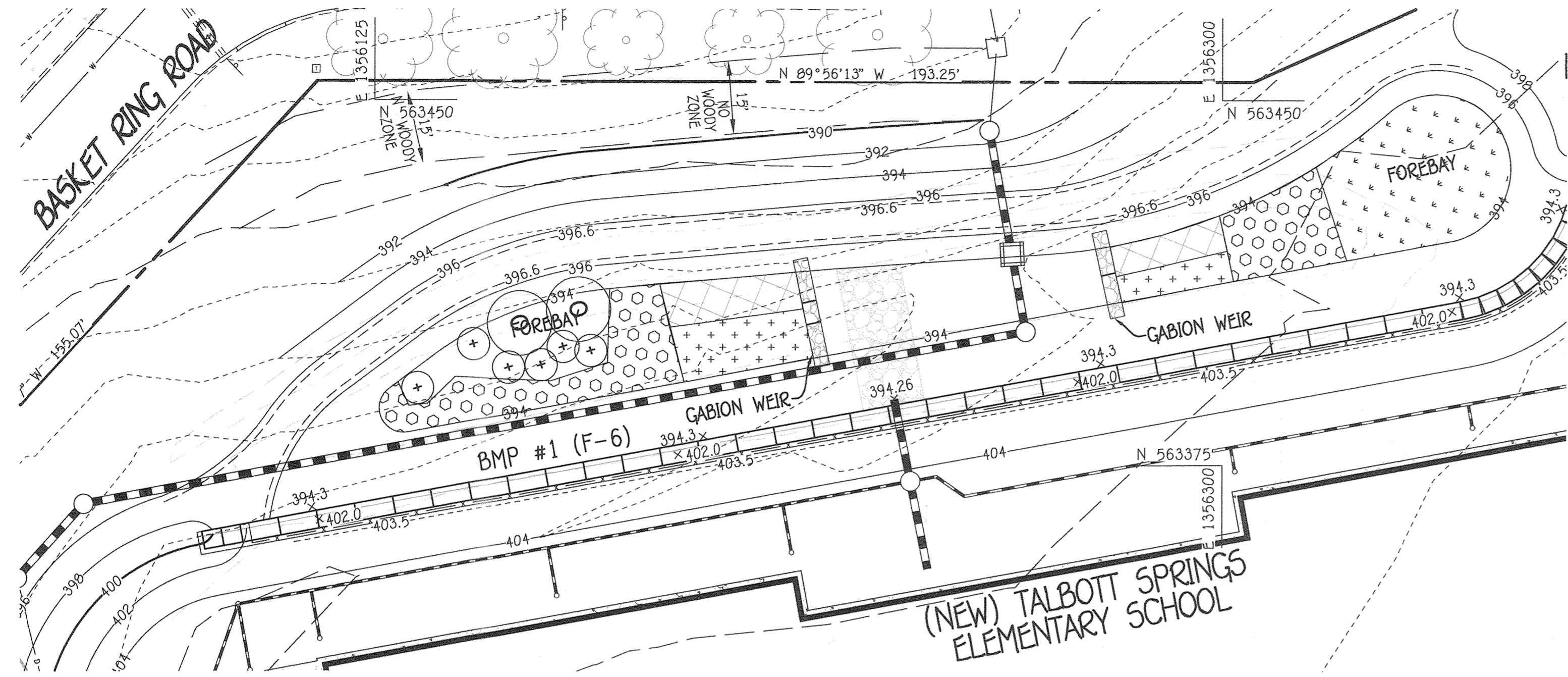


Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
ELEMENTARY SCHOOL	4/1
PLAT NOS.	BLOCK NO.
L 643/ F. 62	3
WATER CODE	SEWER CODE
E 03	5580800

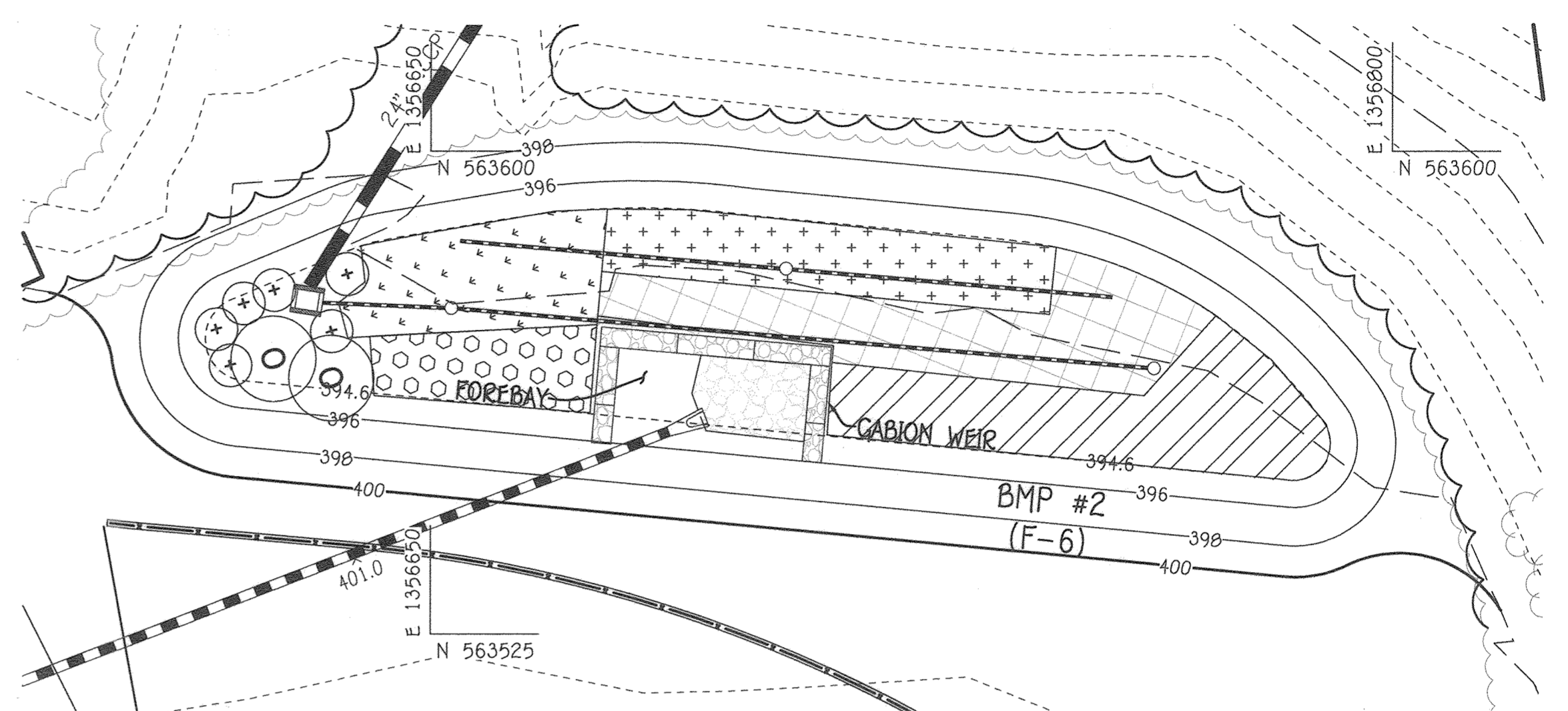
**SWM SPECIFICATIONS, NOTES & DETAILS**

VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL

ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 38 OF 42



**BMP #1 PLANTING PLAN**  
SCALE: 1"=20'



**BMP #2 PLANTING PLAN**  
SCALE: 1"=20'

BIORETENTION FACILITY (BMP#1) PLANTING SCHEDULE					
KEY	PLANT NAME	MIN. SIZE	BMP #1 QUANTITY	NOTES	SYMBOL
SG	SWITCH GRASS ( <i>Panicum virgatum</i> )	1 qt	80	Grass @ 3' c/c min.	[Symbol]
TS	TUSOCK SEDGE ( <i>Carex stricta</i> )	1 qt	60	Grass @ 3' c/c min.	[Symbol]
CC	CUTLEAF CONEFLOWER ( <i>Rudbeckia laciniata</i> )	1 qt	40	Flower @ 3' c/c min.	[Symbol]
BB	BEEBALM ( <i>Monarda didyma</i> )	1 qt	75 & 40	Flower @ 4' c/c min.	[Symbol]
JP	JOE PYE WEED ( <i>Eupatorium maculatum</i> 'Gateway')	1 gal	6	Perennial @ 5' c/c min.	[Symbol]
ROD	RED OSIER DOGWOOD ( <i>Cornus sericea</i> )	2 gal	2	Shrub @ 7' c/c.	[Symbol]
TOTAL			303		

**PLANTING SPECIFICATIONS:**  
1. PLANT INSTALLATION SHALL BE PER MDE SPECIFICATIONS IN THE 2000 STORMWATER DESIGN MANUAL PER THE PROJECT SPECIFICATIONS, AND AS BELOW.

**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 PLANT MAINTENANCE AND GUARANTEE IN ACCORDANCE WITH THE PROJECT LANDSCAPING SPECIFICATIONS.

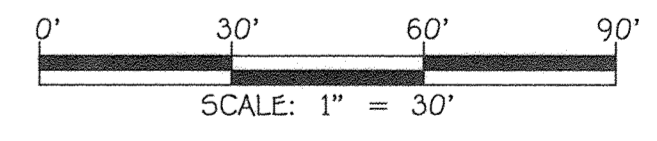
3. PLANT MATERIAL SHALL CONFORM TO THE U.S. STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

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 1.5 FT OF THE FOREBAY WEIR SPLASH APRONS AND IN THE NO PLANTING ZONE NEAR THE RISER.

BIORETENTION FACILITY (BMP#2) PLANTING SCHEDULE					
KEY	PLANT NAME	MIN. SIZE	BMP #2 QUANTITY	NOTES	SYMBOL
SG	SWITCH GRASS ( <i>Panicum virgatum</i> )	1 qt	75	Grass @ 3' c/c min.	[Symbol]
TS	TUSOCK SEDGE ( <i>Carex stricta</i> )	1 qt	120	Grass @ 3' c/c min.	[Symbol]
CC	CUTLEAF CONEFLOWER ( <i>Rudbeckia laciniata</i> )	1 qt	80	Flower @ 3' c/c min.	[Symbol]
BB	BEEBALM ( <i>Monarda didyma</i> )	1 qt	45	Flower @ 4' c/c min.	[Symbol]
NEA	NEW ENGLAND ASTER ( <i>Aster novae angliae</i> )	1 qt	130	Grass @ 3' c/c min.	[Symbol]
JP	JOE PYE WEED ( <i>Eupatorium maculatum</i> 'Gateway')	1 gal	4	Perennial @ 5' c/c min.	[Symbol]
ROD	RED OSIER DOGWOOD ( <i>Cornus sericea</i> )	2 gal	1	Shrub @ 7' c/c.	[Symbol]
TOTAL			455		



**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21144  
(410) 461-2895

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: JANUARY 25, 2024."  
*Paul G. Cavanaugh*  
PAUL G. CAVANAUGH  
July 12, 2022  
DATE

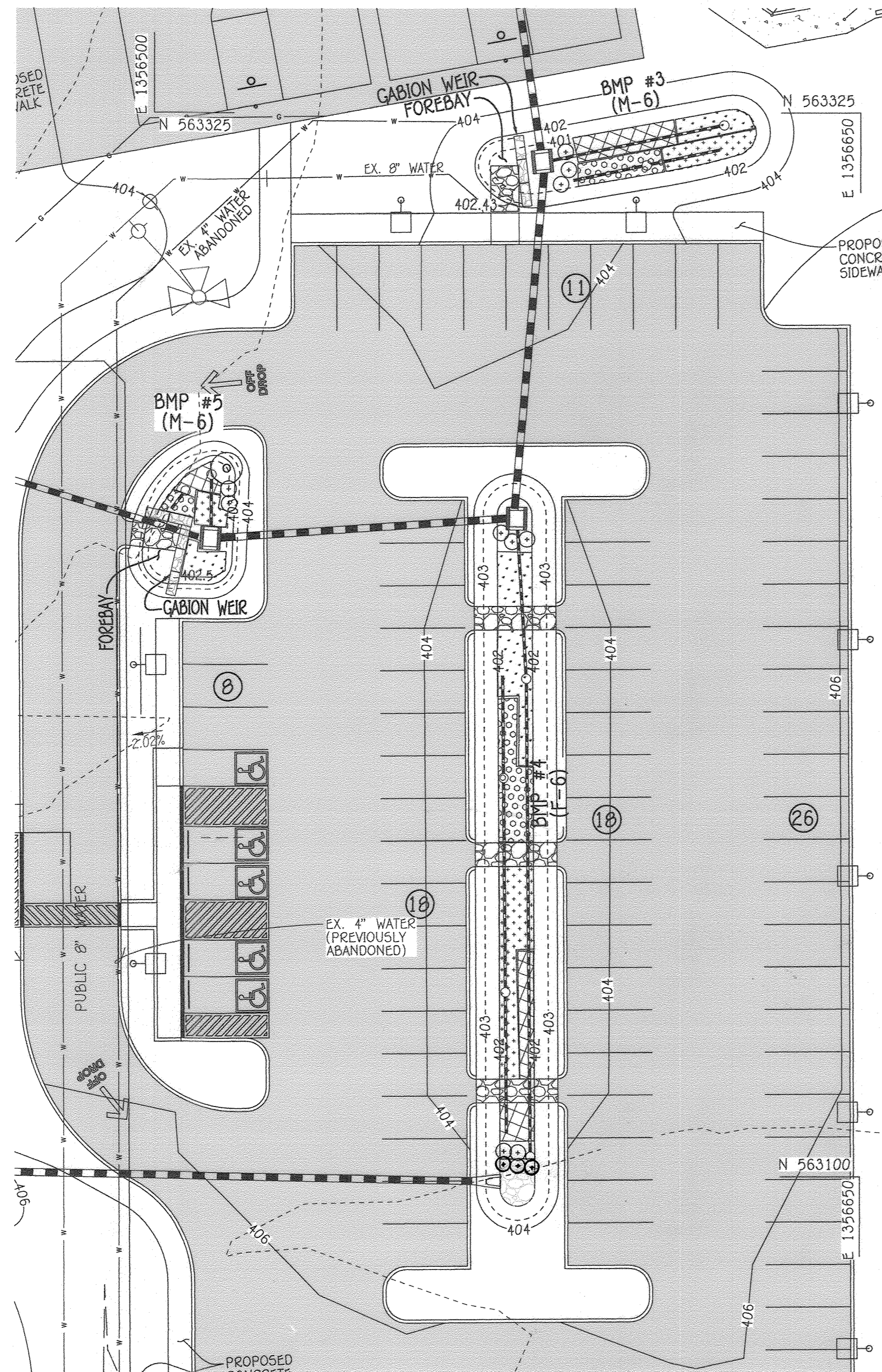
7/17/22	REPLACEMENT SHEET	
3/9/21	REVISED LOCATION DUE TO NEW STORM DRAIN	
DATE	DESCRIPTION	
	REVISION BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>Mary A. Kendall</i>	for Amy Gowan	8/11/22
Director	Department of Planning and Zoning	Date
<i>[Signature]</i>	Chief, Division of Land Development	8/11/22
	Chief, Development Engineering Division	Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

**REVISED SWM LANDSCAPING PLAN AND SPECIFICATIONS**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 20' DATE: MAY 31, 2022  
SHEET 39 OF 49



**BMP #3, #4, & #5 PLANTING PLAN**  
SCALE: 1"=20'

BIORETENTION FACILITY (BMP#3) PLANTING SCHEDULE					
KEY	PLANT NAME	MIN. SIZE	BMP #3 QUANTITY	NOTES	SYMBOL
SG	SWITCH GRASS ( <i>Panicum virgatum</i> )	1 qt	8	Grass @ 3' c/c min.	[Symbol]
TS	TUSOCK SEDGE ( <i>Carex Stricta</i> )	1 qt	14	Grass @ 3' c/c min.	[Symbol]
CC	CUTLEAF CONEFLOWER ( <i>Rudbeckia laciniata</i> )	1 qt	10	Flower @ 3' c/c min.	[Symbol]
BB	BEEBALM ( <i>Monarda didyma</i> )	1 qt	10	Flower @ 4' c/c min.	[Symbol]
JP	JOE PYE WEED ( <i>Eupatorium maculatum</i> 'Gateway')	1 gal	3	Perennial @ 5' c/c min.	[Symbol]
ROD	RED OSIER DOGWOOD ( <i>Cornus sericea</i> )	2 gal	0	Shrub @ 7' c/c.	[Symbol]
TOTAL			45		

BIORETENTION FACILITY (BMP#4) PLANTING SCHEDULE					
KEY	PLANT NAME	MIN. SIZE	BMP #4 QUANTITY	NOTES	SYMBOL
SG	SWITCH GRASS ( <i>Panicum virgatum</i> )	1 qt	30	Grass @ 3' c/c min.	[Symbol]
TS	TUSOCK SEDGE ( <i>Carex Stricta</i> )	1 qt	30	Grass @ 3' c/c min.	[Symbol]
CC	CUTLEAF CONEFLOWER ( <i>Rudbeckia laciniata</i> )	1 qt	30	Flower @ 3' c/c min.	[Symbol]
BB	BEEBALM ( <i>Monarda didyma</i> )	1 qt	20	Flower @ 4' c/c min.	[Symbol]
JP	JOE PYE WEED ( <i>Eupatorium maculatum</i> 'Gateway')	1 gal	5	Perennial @ 5' c/c min.	[Symbol]
ROD	RED OSIER DOGWOOD ( <i>Cornus sericea</i> )	2 gal	1	Shrub @ 7' c/c.	[Symbol]
TOTAL			119		

BIORETENTION FACILITY (BMP#5) PLANTING SCHEDULE					
KEY	PLANT NAME	MIN. SIZE	BMP #5 QUANTITY	NOTES	SYMBOL
SG	SWITCH GRASS ( <i>Panicum virgatum</i> )	1 qt	6	Grass @ 3' c/c min.	[Symbol]
TS	TUSOCK SEDGE ( <i>Carex Stricta</i> )	1 qt	6	Grass @ 3' c/c min.	[Symbol]
CC	CUTLEAF CONEFLOWER ( <i>Rudbeckia laciniata</i> )	1 qt	5	Flower @ 3' c/c min.	[Symbol]
BB	BEEBALM ( <i>Monarda didyma</i> )	1 qt	5	Flower @ 4' c/c min.	[Symbol]
JP	JOE PYE WEED ( <i>Eupatorium maculatum</i> 'Gateway')	1 gal	2	Perennial @ 5' c/c min.	[Symbol]
ROD	RED OSIER DOGWOOD ( <i>Cornus sericea</i> )	2 gal	1	Shrub @ 7' c/c.	[Symbol]
TOTAL			25		

**PLANTING SPECIFICATIONS:**  
1. PLANT INSTALLATION SHALL BE PER MDE SPECIFICATIONS IN THE 2000 STORMWATER DESIGN MANUAL, PER THE PROJECT SPECIFICATIONS, AND AS BELOW.

**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 PLANT MAINTENANCE AND GUARANTEE IN ACCORDANCE WITH THE PROJECT LANDSCAPING SPECIFICATIONS.  
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 1.5 FT OF THE FOREBAY WEIR SPLASH APRONS AND IN THE NO PLANTING ZONE NEAR THE RISER.

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 15276 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2895

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 36396, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuite*  
STEPHANIE J. TUITE, R.L.A. P.E., LEED AP BC&D  
9/1/20  
DATE

7/7/22 REVISED SHEET NUMBER  
9/9/21 REVISED BMP #4 PLANTING SCHEDULE  
DATE DESCRIPTION REVISION BLOCK  
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Director, Department of Planning and Zoning 16-16-20 Date  
Chief, Division of Land Development 10/16/20 Date  
Chief, Development Engineering Division 10-2-20 Date

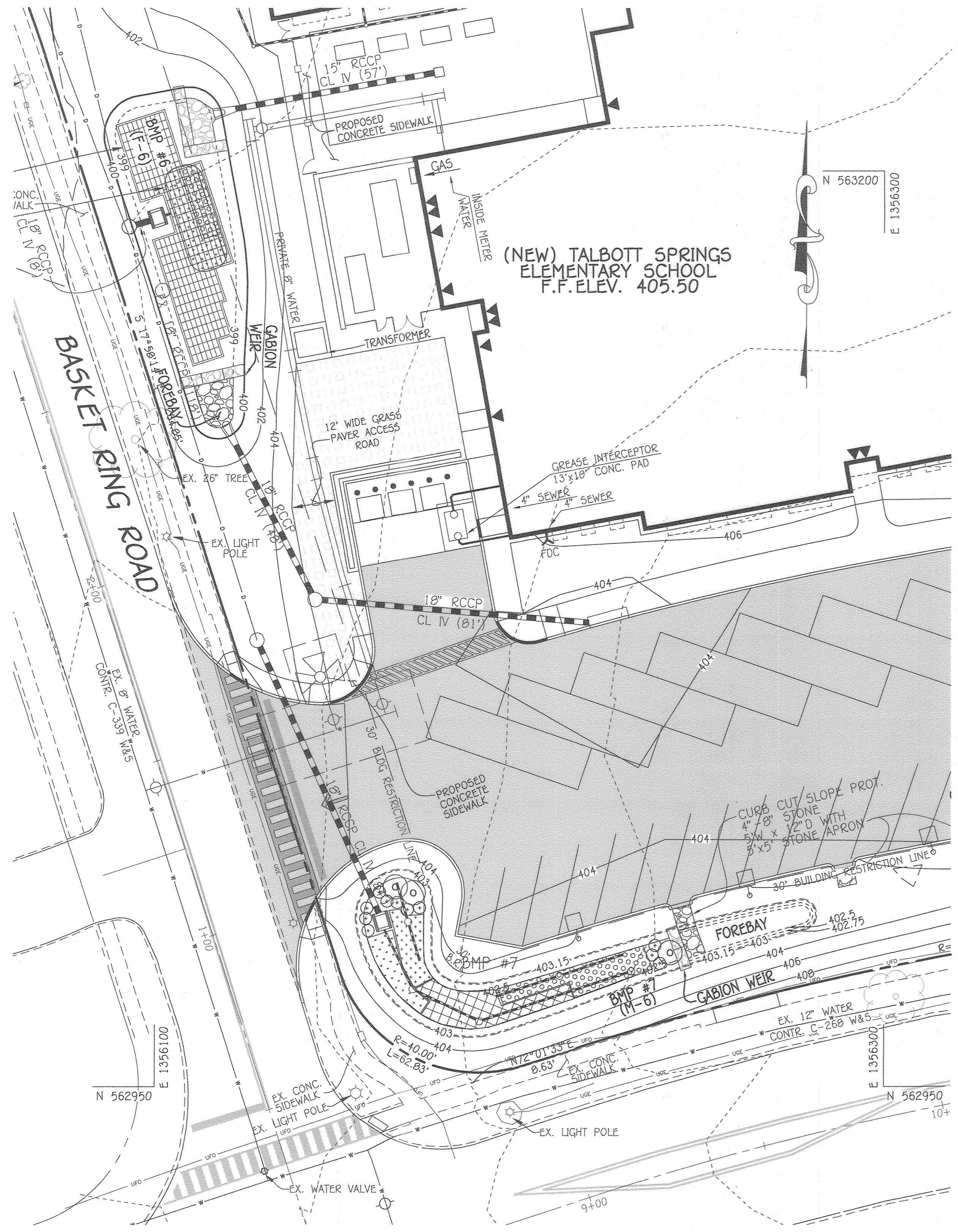
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

**SWM LANDSCAPING PLAN AND SPECIFICATIONS**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 20' DATE: AUG. 26, 2020  
SHEET 40 OF 49





**BMP #6 & #7 PLANTING PLAN**  
SCALE: 1"=20'

BIORETENTION FACILITY (BMP#6) PLANTING SCHEDULE					
KEY	PLANT NAME	MIN. SIZE	BMP #6 QUANTITY	NOTES	SYMBOL
CC	CUTLEAF CONEFLOWER ( <i>Rudbeckia laciniata</i> )	1 qt	20	Flower @ 3' c/c min.	+
BB	BEEBALM ( <i>Monarda didyma</i> )	1 qt	15	Flower @ 4' c/c min.	○
TOTAL			35		

BIORETENTION FACILITY (BMP#7) PLANTING SCHEDULE					
KEY	PLANT NAME	MIN. SIZE	BMP #7 QUANTITY	NOTES	SYMBOL
SG	SWITCH GRASS ( <i>Panicum virgatum</i> )	1 qt	15	Grass @ 3' c/c min.	•
TS	TUSsock SEDGE ( <i>Carex stricta</i> )	1 qt	35	Grass @ 3' c/c min.	•
CC	CUTLEAF CONEFLOWER ( <i>Rudbeckia laciniata</i> )	1 qt	15	Flower @ 3' c/c min.	+
BB	BEEBALM ( <i>Monarda didyma</i> )	1 qt	30	Flower @ 4' c/c min.	○
JP	JOE PYE WEED ( <i>Eupatorium maculatum</i> "Gateway")	1 gal	11	Perennial @ 5' c/c min.	+
ROD	RED OSIER DOGWOOD ( <i>Cornus sericea</i> )	2 gal	3	Shrub @ 7' c/c.	○
TOTAL			109		

- PLANTING SPECIFICATIONS:**
- PLANT INSTALLATION SHALL BE PER MDE SPECIFICATIONS IN THE 2000 STORMWATER DESIGN MANUAL, PER THE PROJECT SPECIFICATIONS, AND AS BELOW.
- ADDITIONAL SPECIFICATIONS:**
- 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 MATING. WATER AS NECESSARY UNTIL ESTABLISHED VEGETATION.
  - THE CONTRACTOR SHALL PROVIDE PLANT MAINTENANCE AND GUARANTEE IN ACCORDANCE WITH THE PROJECT LANDSCAPING SPECIFICATIONS.
  - PLANT MATERIAL SHALL CONFORM TO THE U.S. STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
  - 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.
  - ALL PLANTS MUST BE THOROUGHLY AND REGULARLY WATERED PRIOR TO ACCEPTANCE.
  - DO NOT PLANT VEGETATION WITHIN 1.5 FT OF THE FOREBAY WEIR SPLASH APRONS AND IN THE NO PLANTING ZONE NEAR THE RISER.

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SOURCE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21041  
(410) 461-2895

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."

*Stephanie Tuite*  
STEPHANIE TUITE, RLA, P.E., LEED AP BC&D  
DATE 9/1/20

7/7/22 REVISED SHEET NUMBER

DATE	DESCRIPTION
	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director, Department of Planning and Zoning 16-16-20 Date

Chief, Division of Land Development collette Date

Chief, Development Engineering Division 10-2-20 Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE:	E 03	SEWER CODE:	5580800		

**SWM LANDSCAPING PLAN AND SPECIFICATIONS**

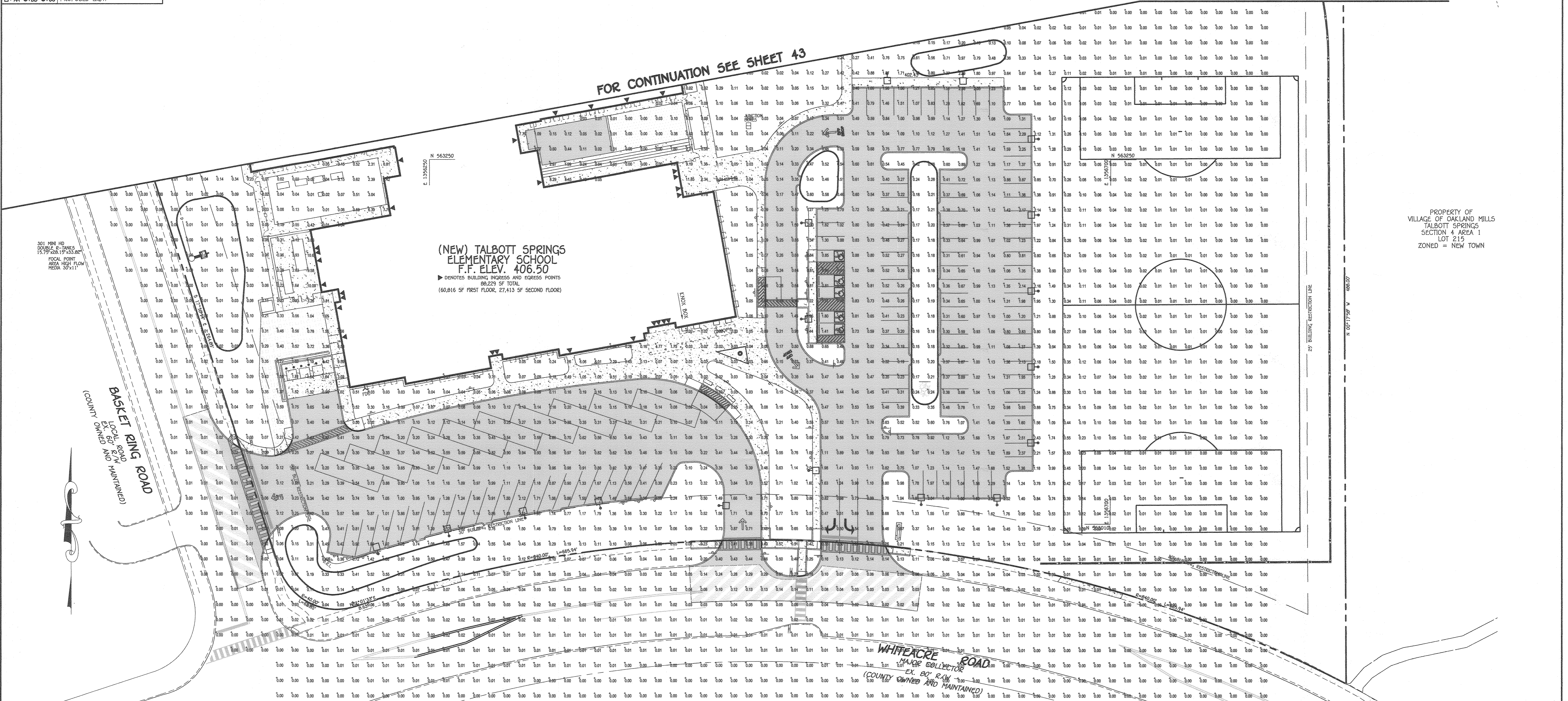
**VILLAGE OF OAKLAND MILLS**  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
**TALBOTT SPRINGS**  
**ELEMENTARY SCHOOL**

ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 20' DATE: AUG. 26, 2020  
SHEET 41 OF 42

LEGEND	
SYMBOL	DESCRIPTION
	BUILDING RESTRICTION LINE
	PROPOSED FENCE
	PROPOSED CONCRETE WALK
	PROPOSED MACADAM PAVING
	PROPOSED LIGHT

FOR CONTINUATION SEE SHEET 43

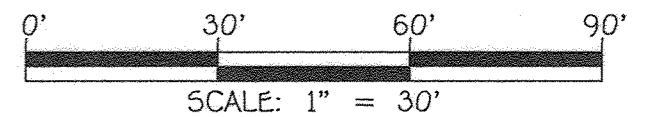
FOR CONTINUATION SEE SHEET 43



(NEW) TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
F.F. ELEV. 406.50  
► DENOTES BUILDING INGRESS AND EGRESS POINTS  
89,229 SF TOTAL  
(60,816 SF FIRST FLOOR, 27,413 SF SECOND FLOOR)

PROPERTY OF  
VILLAGE OF OAKLAND MILLS  
TALBOTT SPRINGS  
SECTION 4 AREA 1  
LOT 215  
ZONED = NEW TOWN

PLAN  
SCALE: 1" = 30'



APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

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

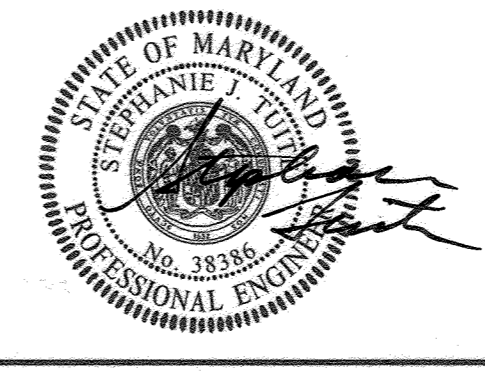
**James Posey Associates**  
Engineering Your Vision

Mechanical & Electrical  
Consulting Engineers  
11155 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38396, EXPIRATION DATE: JANUARY 12, 2022."  
*Stephanie J. Tuite*  
STEPHANIE J. TUITE, R.L.A., P.E., LEED AP BCAD  
9/1/20  
DATE

7/7/22	REVISED SHEET NUMBER
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
Director	10-16-20 Date
Chief, Division of Land Development	10/2/20 Date
Chief, Development Engineering Division	10-2-20 Date

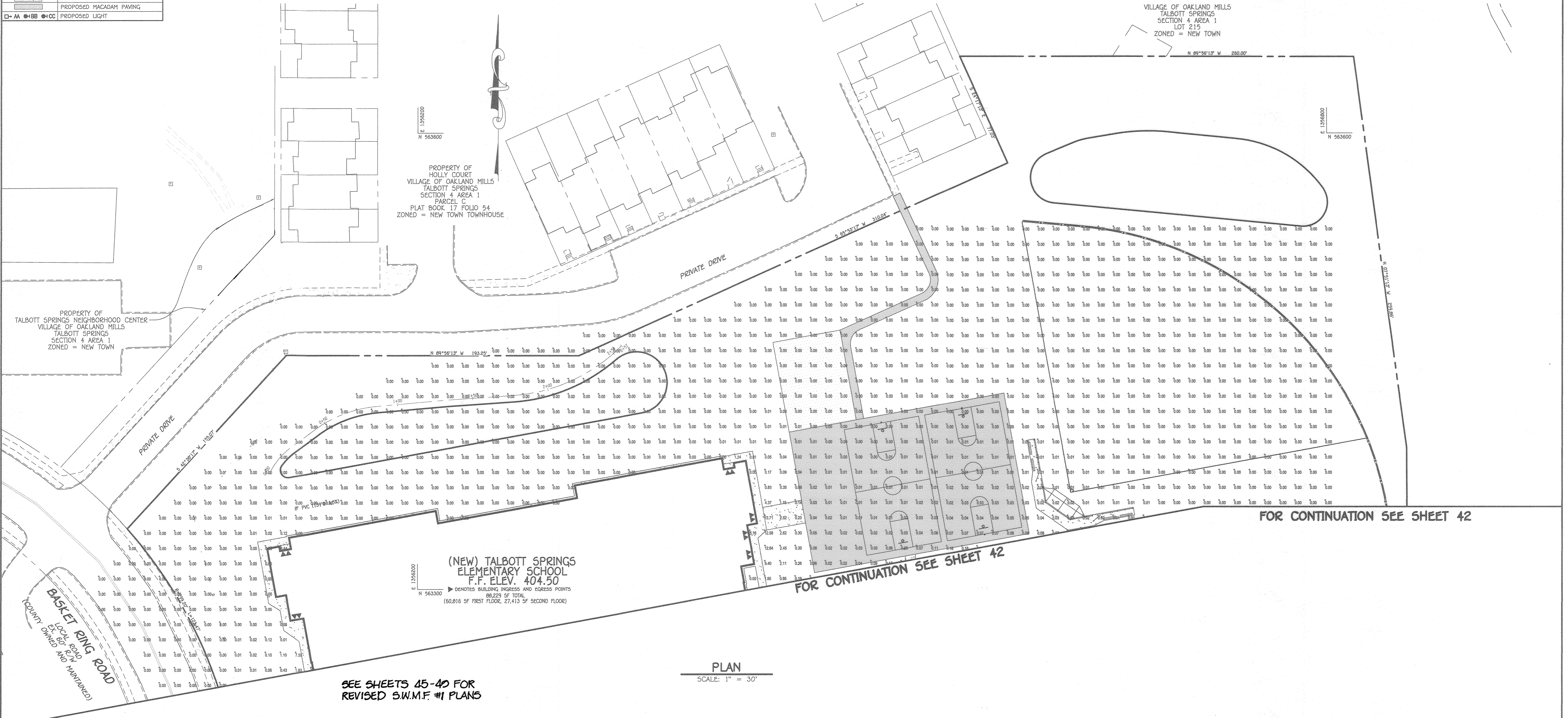
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

**PHOTOMETRICS PLAN**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 42 OF 49

LEGEND	
SYMBOL	DESCRIPTION
	BUILDING RESTRICTION LINE
	PROPOSED FENCE
	PROPOSED CONCRETE WALK
	PROPOSED MACADAM PAVING
	PROPOSED LIGHT



FOR CONTINUATION SEE SHEET 42

FOR CONTINUATION SEE SHEET 42

PLAN  
SCALE: 1" = 30'

SEE SHEETS 45-49 FOR  
REVISED S.W.M.F. #1 PLANS

0' 30' 60' 90'  
SCALE: 1" = 30'

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 12272 BALTIMORE NATIONAL PIKE  
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11155 Red Run Boulevard, Suite 310  
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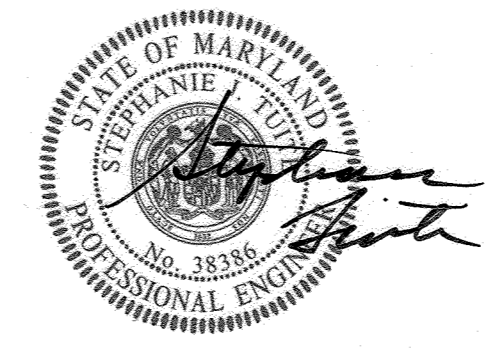
"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: JANUARY 12, 2022."

*Stephanie J. Tuite*  
STEPHANIE J. TUITE, RLA, P.E., LEED AP BC&D

9/1/20  
DATE

7/7/20	REVISED STORM DRAIN AND SHEET NUMBER
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Ally Green</i>	10-16-20 Date
Director, Department of Planning and Zoning	
<i>Colin Tuite</i>	10-2-20 Date
Chief, Division of Land Development	
<i>Ally Green</i>	
Chief, Development Engineering Division	

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



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L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

**PHOTOMETRICS PLAN**  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: AUG. 26, 2020  
SHEET 43 OF 49

**SPECIFICATION  
HIGH PERFORMANCE MODULAR BIOFILTRATION SYSTEM (HPMBS)  
MATERIAL, PERFORMANCE AND INSTALLATION SPECIFICATION**

**I. SUMMARY**

THE FOLLOWING GENERAL SPECIFICATIONS DESCRIBE THE COMPONENTS AND INSTALLATION REQUIREMENTS FOR A VOLUME BASED HIGH PERFORMANCE MODULAR BIOFILTRATION SYSTEM (HPMBS) THAT UTILIZES PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS OF A SOIL, PLANT AND MICROBE COMPLEX TO REMOVE POLLUTANTS TYPICALLY FOUND IN URBAN STORM WATER RUNOFF. THE MODULAR TREATMENT SYSTEM IN WHICH THE BIOLOGICALLY ACTIVE BIOFILTRATION MEDIA IS USED SHALL BE A COMPLETE, INTEGRATED SYSTEM DESIGNED TO BE PLACED IN SQUARE FOOT OR LINEAR FOOT INCREMENTS PER THE APPROVED DRAWINGS TO TREAT CONTAMINATED RUNOFF FROM IMPERVIOUS SURFACES.

- THE HIGH PERFORMANCE MODULAR BIOFILTRATION SYSTEM (HPMBS) IS COMPOSED OF THE FOLLOWING COMPONENTS:
- A. PLANT COMPONENT
    - 1. MANUFACTURER SHALL PROVIDE A REGIONALIZED LIST OF ACCEPTABLE PLANTS.
    - 2. PLANTS, AS SPECIFIED IN THE APPROVED DRAWINGS/MANUFACTURER'S PLANT LIST, SHALL BE INSTALLED AT THE TIME THE HPMBS IS COMMISSIONED FOR USE.
    - 3. PLANTS AND PLANTING ARE TYPICALLY INCLUDED IN LANDSCAPE CONTRACT.
  - B. BIOFILTER COMPONENT
    - 1. THIS COMPONENT EMPLOYS A HIGH PERFORMANCE CROSS-SECTION IN WHICH EACH ELEMENT IS HIGHLY DEPENDENT ON THE OTHERS TO MEET THE PERFORMANCE SPECIFICATION FOR THE COMPLETE SYSTEM. IT IS IMPORTANT THAT THIS ENTIRE CROSS-SECTION BE PROVIDED AS A COMPLETE SYSTEM, AND NOT AS INDIVIDUAL PARTS.
    - 2. AS INDICATED IN THE APPROVED DRAWINGS, THE ELEMENTS OF THE BIOFILTER INCLUDE:
      - a. A WIDE PERFORATED MESH LAYER (IF SPECIFIED)
      - b. AN ADVANCED HIGH INFILTRATION RATE BIOFILTRATION PLANTING MEDIA BED WHICH UTILIZES PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS OF THE SOIL, PLANT, AND MICROBE COMPLEX TO REMOVE POLLUTANTS FOUND IN STORM WATER RUNOFF.
      - c. A SEPARATION LAYER WHICH UTILIZES THE CONCEPT OF "BEDDING" TO SEPARATE THE BIOFILTRATION MEDIA FROM THE UNDERDRAIN WITHOUT THE USE OF GEOTEXTILE FABRICS.
      - d. A WIDE PERFORATED MESH LAYER UTILIZED TO PREVENT BEDDING STONE FROM ENTERING THE UNDERDRAIN/STORAGE ELEMENT.
      - e. A MODULAR HIGH INFILTRATION RATE "PILE" STYLE UNDERDRAIN/STORAGE SYSTEM WHICH IS DESIGNED TO DIRECTLY INFILTRATE OR EXFILTRATE WATER THROUGH ITS SURFACE. THE MODULAR UNDERDRAIN MUST PROVIDE A MINIMUM OF 95% VOID SPACE.
  - C. ENERGY DISSIPATION COMPONENT
    - 1. AN ENERGY DISSIPATION COMPONENT IS TYPICALLY SPECIFIED TO SLOW AND SPREAD OUT WATER AS IT ENTERS THE SYSTEM. THIS COMPONENT IS DEPENDENT UPON THE DESIGN IN THE APPROVED DRAWINGS, BUT TYPICALLY CONSISTS OF A ROCK GABION, ROCK FILTER DAM OR DENSE VEGETATION ELEMENT, SUCH AS NATIVE GRASSES, EITHER SURROUNDING THE BIOFILTRATION COMPONENT OR LOCATED IMMEDIATELY UPSTREAM OF IT.
  - D. PRETREATMENT COMPONENT
    - 1. PRETREATMENT, WHEN SPECIFIED, IS TYPICALLY ACCOMPLISHED BY LOCATING THE BIOFILTRATION COMPONENT WITHIN A TRADITIONAL VEGETATED BMP SUCH AS A VEGETATED SWALE, VEGETATED DEPRESSION, TRADITIONAL BIORETENTION SYSTEM, VEGETATED FILTER STRIP, SEDIMENT FOREBAY, ETC. THESE BMP'S PROVIDE PRIMARY TSS REMOVAL WHEN DESIGNEABLE.
  - E. OBSERVATION AND MAINTENANCE COMPONENT
    - 1. AN OBSERVATION AND MAINTENANCE PORT SHALL BE INSTALLED PER THE APPROVED DRAWINGS TO PROVIDE FOR EASY INSPECTION OF THE UNDERDRAIN/STORAGE ELEMENT, AND CLEANOUT ACCESS IF NEEDED.
  - F. EXTREME EVENT OVERFLOW (EVO) OTHERS
    - 1. AN EXTREME EVENT OVERFLOW SHOULD BE LOCATED EXTERNAL TO, BUT NEAR THE BIOFILTRATION ELEMENT TO PROVIDE BYPASS WHEN NEEDED. THIS MAY BE AN OVERLAND FLOW BYPASS STRUCTURE, BEHIVE OVERFLOW GRATE STRUCTURE, OR EQUIVALENT THAT SERVES THE PURPOSE. IF BEHIVE OVERFLOW STRUCTURES IS UTILIZED IT SHOULD INCLUDE A REMOVABLE FILTER INSERT TO PROVIDE A MINIMUM OF 50% TSS REMOVAL AND CONTROL OF GROSS POLLUTANTS, TRASH AND FLOATABLES.

**II. QUALITY ASSURANCE AND PERFORMANCE SPECIFICATIONS**

THE QUALITY AND COMPOSITION OF ALL SYSTEM COMPONENTS AND ALL OTHER APPURTENANCES AND THEIR ASSEMBLY PROCESS SHALL BE SUBJECT TO INSPECTION UPON DELIVERY OF THE SYSTEM TO THE WORK SITE.

INSTALLATION IS TO BE PERFORMED ONLY BY SKILLED WORK PEOPLE WITH SATISFACTORY RECORD OF PERFORMANCE ON EARTHWORKS, PIPE, CHAMBER, OR POND/LANDFILL CONSTRUCTION PROJECTS OF COMPARABLE SIZE AND QUALITY.

- A. PLANTS
  - 1. PLANTS MUST BE COMPATIBLE WITH THE HPMBS MEDIA AND THE ASSOCIATED HIGHLY VARIABLE HYDROLOGIC REGIME. PLANTS ARE TYPICALLY FACULTATIVE WITH FIBROUS ROOT SYSTEMS SUCH AS NATIVE GRASSES AND SHRUBS.
  - 2. MANUFACTURER SHALL PROVIDE A REGIONALIZED LIST OF ACCEPTABLE PLANTS.
  - 3. ALL PLANT MATERIAL SHALL COMPLY WITH THE TYPE AND SIZE REQUIRED BY THE APPROVED DRAWINGS AND SHALL BE ALIVE AND FREE OF OBVIOUS SIGNS OF DISEASE.
- B. MULCH
  - 1. MULCH, TYPICALLY DOUBLE SHROUDED HARDWOOD (NON-FLOATABLE), SHALL COMPLY WITH THE TYPE AND SIZE REQUIRED BY THE APPROVED DRAWINGS, AND SHALL BE SCREENED TO MINIMIZE FINES.
- C. BIOFILTRATION MEDIA
  - 1. BIOLOGICALLY ACTIVE BIOFILTRATION MEDIA SHALL BE VISUALLY INSPECTED TO ENSURE APPROPRIATE VOLUME, TEXTURE AND CONSISTENCY WITH THE APPROVED DRAWINGS, AND MUST BEAR A BATCH NUMBER MARKING FROM THE MANUFACTURER WHICH CERTIFIES PERFORMANCE TESTING OF THE BATCH TO MEET OR EXCEED THE REQUIRED INFILTRATION RATE (100 IN/HOUR). A THIRD PARTY LABORATORY TEST MUST BE PROVIDED TO VERIFY THE 100 IN/HOUR RATE.
  - 2. WITHIN 90 DAYS AFTER PROJECT COMPLETION, THE INFILTRATION RATE SHALL BE CONFIRMED AT THE MANUFACTURER'S EXPENSE, BY A WETTED CONDITION HYDRAULIC CONDUCTIVITY TEST.
    - a. FAILURE TO PASS THIS TEST WILL RESULT IN REMOVAL AND REPLACEMENT OF ALL MEDIA IN THE SYSTEM AT NO COST TO THE PROJECT OWNER/OPERATOR.
    - b. TEST MUST UTILIZE THE EQUIPMENT AND FOLLOW THE STANDARD OPERATING PROCEDURES FOUND IN THE HARRIS COUNTY TEXAS MANUAL ENTITLED, LOW IMPACT DEVELOPMENT & GREEN INFRASTRUCTURE DESIGN CRITERIA FOR STORM WATER MANAGEMENT (2011).
    - c. REQUIRING MEDIA, IF REQUIRED, MUST BE TAKEN FROM A DIFFERENT BATCH THAN THE ORIGINAL.
  - 3. MANUFACTURER SHALL PROVIDE, AT NO ADDITIONAL COST TO THE PROJECT OWNER/OPERATOR, MAINTENANCE OF THE BIOFILTRATION SYSTEM FOR A PERIOD OF ONE YEAR.
  - 4. POLLUTANT REMOVAL PERFORMANCE, COMPOSITION AND CHARACTERISTICS OF THE BIOFILTRATION MEDIA MUST MEET OR EXCEED THE FOLLOWING MINIMUM STANDARDS AS DEMONSTRATED BY TESTING ACCEPTABLE TO THE PROJECT ENGINEER:
    - POLLUTANT & REMOVAL EFFICIENCY: TSS 91% PHOSPHORUS 66% NITROGEN 48%

**COMPOSITION & CHARACTERISTICS:** SAND - FINE < 5% SAND - MEDIUM 10% - 15% SAND - COARSE 15% - 25% SAND - VERY COARSE 40% - 45% GRAVEL 10% - 20% INFILTRATION RATE=100 INCHES PER HOUR PEAT MOSS +5% - 15% PEAT MOSS SPECIFICATION LISTED BY ORGANIC MATERIALS REVIEW INSTITUTE - 100% NATURAL PEAT AND COMPOSTED SLUDGE (WEDG OR LEAF WASTE) TOTAL CARBON >95% CARBON TO NITROGEN RATIO 15:1 TO 23:1 LIGNIN CONTENT 4% TO 52% HUMIC ACID >16% PH 6.0 TO 7.0 MOISTURE CONTENT 30% TO 50% 95% TO 100% PASSING 2.0MM SIEVE > 80% PASSING 1.0MM SIEVE

- D. UNDERDRAIN/STORAGE SYSTEM
  - 1. UNDERDRAIN/STORAGE COMPONENTS SHALL BE MANUFACTURED IN AN ISO CERTIFIED FACILITY AND BE MANUFACTURED FROM AT LEAST 90% POST CONSUMER RECYCLED MATERIALS.
  - 2. UNDERDRAIN/STORAGE COMPONENTS SHALL MEET OR EXCEED THE FOLLOWING CHARACTERISTICS:
    - PROPERTY VALUE SURFACE VOID AREA: 85% VOLUME WEIGHT 3.25 LBS/CF SERVICE TEMPERATURE -14° TO 167° UNCONTAINED CRUSH STRENGTH 32.48 PSI @ 180 DAY CREEP TEST LOAD APPLIED - INITIAL AND SUSTAINED 11.16 PSF CREEP SUSTAINED - AFTER 180 DAYS 2.20 INCHES CREEP SUSTAINED - AFTER 180 DAYS 1.13 INCHES PROJECTED CREEP - 40 YEARS 1.22 INCHES
- E. SEPARATION MESH
  - 1. SEPARATION MESH SHALL BE COMPOSED OF HIGH-TENACITY MONOFILAMENT POLYPROPYLENE YARNS THAT ARE WOVEN TOGETHER TO PRODUCE AN OPEN MESH GEOTEXTILE WHICH SHALL BE INERT TO BIOLOGICAL DEGRADATION AND RESISTANT TO NATURALLY ENCOUNTERED CHEMICALS, ALKALIS AND ACIDS. THE MESH SHALL MEET OR EXCEED THE FOLLOWING CHARACTERISTICS:
    - PROPERTIES TEST METHOD UNIT MIN AVE. ROLL VALUE MOD TENSILE STRENGTH ASTM D4959K1/M (LBS/FT)21 (144)25.3 (173)CREEP REDUCED STRENGTH ASTM D5628K1/M (LBS/FT)6.9 (47)18.3 (56)LONG TERM ALLOWABLE DESIGN LOAD GRI GQ-KN/M (LBS/FT)3.9 (407)7.2 (490)U RESISTANCE (AT 500 HOURS)-X STRENGTH RETAINED 90% APERTURE SIZE (MACHINE DIRECTION)-MM (IN)2 (0.08) APERTURE SIZE (CROSS MACHINE DIRECTION)-MM (IN)2 (0.08) MASS/UNIT AREA ASTM D5616/G16 (OZ/YS)197 (5.8)
  - F. BEDDING STONE
    - 1. BEDDING STONE SHALL BE 3/8" PEA GRAVEL OR OTHER DIAMETER SIZED TO PREVENT MIGRATION OF FILTER MEDIA, AS SPECIFIED BY MANUFACTURER.
    - 2. STONE MUST BE WASHED AND FREE FROM SEDIMENT, SOIL AND CONTAMINANTS.

- III. DELIVERY, STORAGE AND HANDLING
  - A. PROTECT ALL MATERIALS FROM DAMAGE DURING DELIVERY AND STORE UV SENSITIVE MATERIALS UNDER TARP TO PROTECT FROM SUNLIGHT INCLUDING ALL PLASTICS, WHEN THE FROM DELIVERY TO INSTALLATION EXCEEDS ONE WEEK. STORAGE SHOULD OCCUR ON SMOOTH SURFACES, FREE FROM DIRT, MUD AND DEBRIS.
  - B. BIOFILTRATION MEDIA SHALL BE SEGREGATED FROM ANY OTHER AGGREGATE MATERIALS AND SHALL BE PROTECTED AGAINST CONTAMINATION, INCLUDING CONTAMINATION FROM ANY STORMWATER RUNOFF FROM AREAS OF THE SITE WHICH ARE NOT STABILIZED.

- IV. SUBMITTALS
  - A. PRODUCT DATA
    - 1. SUBMIT MANUFACTURER'S PRODUCT DATA AND APPROVED INSTALLATION MANUAL AS WELL AS MANUFACTURER'S OPERATIONS AND MAINTENANCE MANUAL FOR THE SYSTEM. IT WILL BE THE RESPONSIBILITY OF THE SYSTEM OWNER/OPERATOR OR THEIR CONTRACTOR TO ENSURE THE SYSTEM IS OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUAL.
  - B. CERTIFICATION
    - 1. MANUFACTURER SHALL SUBMIT A LETTER OF CERTIFICATION THAT THE COMPLETE SYSTEM MEETS OR EXCEEDS ALL TECHNICAL AND PACKAGING REQUIREMENTS. BIOFILTRATION MEDIA PACKAGING MUST BEAR A BATCH NUMBER MARKING FROM THE MANUFACTURER WHICH MATCHES A LETTER FROM THE MANUFACTURER CERTIFYING PERFORMANCE TESTING OF THE BATCH TO MEET OR EXCEED THE REQUIRED INFILTRATION RATE.
  - C. DRAWINGS
    - 1. MANUFACTURER SHALL PROVIDE DIMENSIONAL DRAWINGS INCLUDING DETAILS FOR CONSTRUCTION, MATERIALS, SPECIFICATIONS AND PIPE CONNECTIONS.
    - 2. MANUFACTURER'S WARRANTY
      - 1. MANUFACTURER SHALL PROVIDE A WARRANTY FOR ALL COMPONENTS OF THE HPMBS FOR A PERIOD OF ONE YEAR PROVIDED THE UNIT IS INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUAL. IMPROPER OPERATION, MAINTENANCE OR ACCIDENTAL OR ILLEGAL ACTIVITIES (E.G. DUMPING OF POLLUTANTS, VANDALISM, ETC.) WILL VOID THE WARRANTY. BIOFILTRATION MEDIA SHALL BE WARRANTED TO PASS THE POST-INSTALLATION INFILTRATION TEST DESCRIBED IN THIS DOCUMENT.

- E. DESIGN COMPUTATIONS
  - 1. THE HPMBS MUST BE SIZED USING THE WIDE SIZING CRITERIA AND DEMONSTRATE THAT DEPENDING ON WHETHER NEW DEVELOPMENT, REDEVELOPMENT OR RETROFIT THAT ALL APPLICABLE WATER QUALITY (WQ), CHANNEL PROTECTION (CP) AND RECHARGE (REV) REQUIREMENTS HAVE BEEN MET. IF LOCAL REGULATIONS HAVE THE SYSTEM APPROVED BASED ON AN ALTERNATIVE SIZING CRITERIA THE LARGER OF THE TWO COMPUTED SIZES WILL GOVERN.
- F. SUBSTITUTIONS
  - 1. ANY PROPOSED EQUAL ALTERNATIVE PRODUCT SUBSTITUTION TO THIS SPECIFICATION MUST BE SUBMITTED FOR REVIEW AND APPROVED PRIOR TO BID OPENING. REVIEW PACKAGE SHOULD INCLUDE THIRD PARTY REVIEWED PERFORMANCE DATA FOR BOTH FLOW RATE AND POLLUTANT REMOVAL OF BIOFILTRATION MEDIA. POLLUTANT REMOVAL DATA MUST FOLLOW SPECIFIED PROTOCOLS. ALL COMPONENTS MUST MEET OR EXCEED QUALITY ASSURANCE AND PERFORMANCE CRITERIA INDICATED HEREIN.
- V. PRODUCT CONDITIONS
  - A. REVIEW MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND COORDINATE INSTALLATION WITH OTHER WORK AFFECTED, SUCH AS GRADING, EXCAVATION, UTILITIES, CONSTRUCTION ACCESS AND EROSION CONTROL TO PREVENT ALL NON-INSTALLATION RELATED CONSTRUCTION TRAFFIC OVER THE COMPLETED HPMBS.
  - B. COLD WEATHER
    - 1. DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST.
    - 2. DO NOT BUILD ON FROZEN GROUND OR WET, SATURATED OR MUDDY SUBGRADE.
    - 3. CARE MUST BE TAKEN WHEN HANDLING PLASTICS WHEN AIR TEMPERATURE IS AT 40 DEGREES OR BELOW AS PLASTIC BECOMES BRITTLE.
  - C. PROTECT PARTIALLY COMPLETED INSTALLATION AGAINST DAMAGE FROM OTHER CONSTRUCTION TRAFFIC WHICH IS IN PROGRESS AND FOLLOWING COMPLETION OF BACKFILL BY ESTABLISHING A PERIMETER WITH HIGHLY VISIBLE CONSTRUCTION TAPE, FENCING, OR OTHER MEANS UNTIL CONSTRUCTION IS COMPLETE.
  - D. SOIL STABILIZATION OF THE SURROUNDING SITE MUST BE COMPLETE BEFORE THE BIOFILTRATION SYSTEM CAN BE BROUGHT ONLINE. SOIL STABILIZATION OCCURS WHEN 90% OF THE SITE HAS BEEN PAVED OR VEGETATED. TEMPORARY EROSION CONTROL AND/OR SEDIMENTATION PREVENTION MEASURES SHALL BE IMPLEMENTED TO REDUCE THE POSSIBILITY OF SEDIMENTS BEING TRANSPORTED INTO THE BIOFILTRATION SYSTEM PRIOR TO FULL STABILIZATION OF THE SITE. SIGNIFICANT SEDIMENT LOADS CAN DAMAGE THE HPMBS AND LEAD TO FAILURE IF NOT PREVENTED OR REMEDIATED PROMPTLY.
- VI. PRODUCTS
  - A. ACCEPTABLE HPMBS
    - 1. FOCALPOINT HIGH PERFORMANCE BIOFILTRATION SYSTEM
    - 2. ACCEPTABLE BEHIVE OVERFLOW GRATE STRUCTURE (OPTIONAL)
    - 3. ACCEPTABLE MANUFACTURER
  - B. MANUFACTURER: CONVERGENT WATER TECHNOLOGIES, INC. (800)711-5428 WWW.CONVERGENTWATER.COM
  - C. AUTHORIZED VALUE ADDED RESELLER
    - 1. ACE ENVIRONMENTAL (800)449-3638 WWW.ACEENVIRONMENTAL.COM
- VII. PACKAGING
  - A. HPMBS IS ASSEMBLED ON SITE.
  - B. MODULAR UNDERDRAIN/STORAGE UNIT IS SHIPPED FLAT AND MODULES ARE ASSEMBLED PRIOR TO INSTALLATION.
  - C. BIOFILTRATION MEDIA IS DELIVERED IN ONE TON SUPER SACKS EACH LABELED WITH MANUFACTURER'S BATCH NUMBER AND/OR IN BULK WITH ACCOMPANYING MANUFACTURER'S CERTIFICATION.
  - D. OTHER COMPONENTS ARE DELIVERED IN BULK OR SUPER SACKS.
- VIII. EXECUTION
  - A. EXCAVATION AND BACKFILL
    - 1. BASE OF EXCAVATION SHALL BE SMOOTH, LEVEL AND FREE OF LUMPS OR DEBRIS, AND COMPACTED UNLESS INFILTRATION OF STORM WATER INTO SUBGRADE IS DESIRED. A THIN LAYER (3") OF COMPACTED BASE MATERIAL IS RECOMMENDED TO ESTABLISH A LEVEL WORKING PLATFORM (MAY NOT BE NEEDED IN SANDY SOILS). IF THE BASE OF THE EXCAVATION IS PUMPING OR APPEARS EXCESSIVELY SOFT, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED FOR ADVICE. IN MANY CASES, A STABILIZATION GEOTEXTILE AND 6" OF COMPACTABLE MATERIAL THAT DRAINS WELL WILL BE SUFFICIENT TO AMEND THE BEARING CAPACITY OF THE SOIL.
    - 2. MOST APPLICATIONS REQUIRE 8 OZ NON-WOVEN GEOTEXTILE OR EQUIVALENT NONWOVEN GEOTEXTILE WITH A NOMINAL WEIGHT OF 8 OZ PER SQUARE YARD TO LINE THE EXCAVATION TO SEPARATE IN SITU SOILS AND THE HPMBS. (APPLICATIONS REQUIRING WATER TO INFILTRATE IN SITU SUB-SOILS SHOULD USE A BEDDING STONE RATHER THAN GEOTEXTILE TO PROVIDE A SEPARATION LAYER BETWEEN THE HPMBS AND THE IN SITU SOILS). GEOTEXTILE, WHEN UTILIZED, SHOULD BE PLACED ON THE BOTTOM AND UP THE SIDES OF THE EXCAVATION. ABSOLUTELY NO GEOTEXTILES SHOULD BE USED IN THE WATER COLUMN. IF AN IMPERMEABLE LINER IS SPECIFIED, IT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
    - 3. SPECIFIED BACKFILL MATERIAL MUST BE FREE FROM LUMPS, DEBRIS AND ANY SHARP OBJECTS THAT COULD PENETRATE THE GEOTEXTILE. MATERIAL IS USED FOR BACKFILL ALONG THE SIDES OF THE SYSTEM AS INDICATED IN ENGINEERING DETAIL DRAWINGS.
  - B. INSPECTION
    - 1. EXAMINE PREPARED EXCAVATION FOR SMOOTHNESS, COMPACTION AND LEVEL. CHECK FOR PRESENCE OF HIGH WATER TABLE, WHICH MUST BE KEPT AT LEVELS BELOW THE BOTTOM OF THE UNDER DRAIN STRUCTURE AT ALL TIMES. IF THE BASE IS PUMPING OR APPEARS EXCESSIVELY SOFT, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED FOR ADVICE.
    - 2. INSTALLATION COMMENCEMENT CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE. IF EXISTING CONDITIONS ARE FOUND TO BE UNSATISFACTORY, CONTACT PROJECT MANAGER OR ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.
- IX. CLEANUP AND PROTECTION DURING ONGOING CONSTRUCTION ACTIVITY
  - A. PERFORM CLEANING DURING THE INSTALLATION AND UPON COMPLETION OF THE WORK.
  - B. REMOVE FROM SITE ALL EXCESS MATERIALS, DEBRIS, AND EQUIPMENT. REPAIR ANY DAMAGE TO ADJACENT MATERIALS AND SURFACES RESULTING FROM INSTALLATION.
  - C. IF SURROUNDING DRAINAGE AREA IS NOT FULLY STABILIZED, A PROTECTIVE COVERING OF GEOTEXTILE FABRIC SHOULD BE SECURELY PLACED TO PROTECT THE BIOFILTRATION MEDIA.
  - D. CONSTRUCTION PHASE EROSION AND SEDIMENTATION CONTROLS SHALL BE PLACED TO PROTECT THE INLETS TO THE BIOFILTRATION SYSTEM. EXCESSIVE SEDIMENTATION, PARTICULARLY PRIOR TO ESTABLISHMENT OF PLANTS MAY DAMAGE THE HPMBS.
  - E. STRICTLY FOLLOW MANUFACTURER'S GUIDELINES WITH RESPECT TO PROTECTION OF THE HPMBS BETWEEN INSTALLATION AND COMMISSIONING PHASES.
- X. COMMISSIONING
  - A. COMMISSIONING SHOULD ONLY BE CARRIED OUT ONCE THE CONTRIBUTING DRAINAGE AREA IS FULLY STABILIZED. IF COMMISSIONING MUST BE CARRIED OUT SOONER, IT IS IMPERATIVE THAT APPROPRIATE EROSION AND SEDIMENT CONTROLS BE PLACED TO PREVENT THE ENTRY OF EXCESSIVE SEDIMENT/POLLUTANT LOADS INTO THE SYSTEM.
  - B. COMMISSIONING DETAILS REMOVING THE PROTECTIVE COVERING FROM THE BIOFILTRATION MEDIA, PLANTING THE PLANT MATERIAL IN ACCORDANCE WITH THE APPROVED DRAWINGS, AND PLACING MULCH IF SPECIFIED.
    - 1. DIG PLANTING HOLES THE DEPTH OF THE ROOT BALL AND TWO TO THREE TIMES AS WIDE AS THE ROOT BALL. WIDE HOLES ENCOURAGE HORIZONTAL ROOT GROWTH THAT PLANTS NATURALLY PRODUCE.
    - 2. WITH TREES, YOU MUST ENSURE YOU ARE NOT PLANTING TOO DEEP. DON'T DIG HOLES DEEPER THAN ROOT BALLS. THE MEDIA SHOULD BE PLACED AT THE ROOT COLLAR, NOT ABOVE THE ROOT COLLAR. OTHERWISE THE STEM WILL BE VULNERABLE TO DISEASE.
    - 3. STRICTLY FOLLOW MANUFACTURER'S PLANTING GUIDANCE.
  - C. COVER THE EXPOSED ROOT BALL TOP WITH MULCH. MULCH SHOULD NOT TOUCH THE PLANT BASE BECAUSE IT CAN HOLD TOO MUCH MOISTURE AND INVITE DISEASE AND INSECTS. EVENLY PLACE 3 INCHES OF DOUBLE-SHROUDED HARDWOOD MULCH (IF SPECIFIED) ON THE SURFACE OF THE MEDIA.
  - D. PLANTINGS SHALL BE WATERED-IN AT INSTALLATION AND TEMPORARY IRRIGATIONS SHALL BE PROVIDED, IF SPECIFIED.
- XI. USING THE HPMBS
  - A. MAINTENANCE REQUIREMENTS
    - 1. EACH CORRECTLY INSTALLED HPMBS IS TO BE MAINTAINED BY THE MANUFACTURER FOR A MINIMUM PERIOD OF ONE YEAR. THE COST OF THIS SERVICE IS TO BE INCLUDED IN THE MANUFACTURER'S PRICE OF THE SYSTEM.
    - 2. ANNUAL MAINTENANCE CONSISTS OF TWO (2) SCHEDULED VISITS UNLESS OTHERWISE SPECIFIED.
      - COMPLETE SYSTEM INSPECTION
      - REMOVAL OF FOREIGN DEBRIS, SILT, PLANT MATERIAL, TRASH AND MULCH (IF NEEDED)
      - EVALUATION OF BIOFILTRATION MEDIA
      - EVALUATION OF PLANT HEALTH
      - INSPECTION OF UNDERDRAIN/STORAGE SYSTEM VIA OBSERVATION/MAINTENANCE PORT
      - PROPERLY SERVICED OF ALL MAINTENANCE REFUSE ITEMS (TRASH, MULCH, ETC.)
      - TAKE PHOTOGRAPHS DOCUMENTING PLANT GROWTH AND GENERAL SYSTEM HEALTH
      - UPDATE AND STORE MAINTENANCE RECORDS
      - TO ENSURE LONG TERM PERFORMANCE OF THE HPMBS, CONTINUING ANNUAL MAINTENANCE SHOULD BE PERFORMED PER THE MANUFACTURER'S OPERATIONS AND MAINTENANCE MANUAL.
    - 3. IF SEDIMENT ACCUMULATES BEYOND AN ACCEPTABLE LEVEL IN THE UNDERDRAIN/STORAGE SYSTEM, IT WILL BE NECESSARY TO FLUSH THE UNDERDRAIN. THIS CAN BE DONE BY PUMPING WATER INTO THE OBSERVATION/MAINTENANCE PORT OR ADJACENT OVERFLOW STRUCTURE, ALLOWING THE TURBULENT FLOWS THROUGH THE UNDERDRAIN TO RE-SUSPEND THE FINE SEDIMENTS. IF MULTIPLE OBSERVATION/MAINTENANCE PORTS HAVE BEEN INSTALLED, WATER SHOULD BE PUMPED INTO EACH PORT TO MAXIMIZE FLUSHING EFFICIENCY.
      - SEDIMENT-LADEN WATER CAN BE PUMPED OUT AND EITHER CAPTURED FOR DISPOSAL OR FILTERED THROUGH A DIRTBAG FILTER BAG, IF PERMITTED BY THE LOCALITY.
  - B. MEASUREMENT AND PAYMENT
    - 1. GIVEN THE INTEGRATED NATURE OF THE HPMBS, MEASUREMENT AND PAYMENT WILL BE BASED NOT ON THE INDIVIDUAL COMPONENT PRICES, BUT ON THE SIZE OF THE BIOFILTRATION MEDIA BED. THE EXTERNAL DIMENSION AS INDICATED IN THE APPROVED PLANS AND EXECUTED IN THE INSTALLATION WILL BE MEASURED IN SQUARE FEET AND PAYMENT WILL BE MADE PER HPMBS SYSTEM.
    - 2. MEASUREMENT AND PAYMENT OF BEHIVE OVERFLOW GRATE STRUCTURE WITH REMOVABLE FILTER INSERT WILL BE BASED ON PER UNIT PRICE.

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2022."

*Stephanie J. Tuite*  
STEPHANIE J. TUITE, P.L.A., P.E., LEED AP BC&O  
DATE 9/17/20

1/7/22	REVISED SHEET NUMBER
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Stephanie J. Tuite</i>	10-16-20 Date
Director, Department of Planning and Zoning	
<i>Stephanie J. Tuite</i>	10/16/20 Date
Chief, Division of Land Development	
<i>Stephanie J. Tuite</i>	10-2-20 Date
Chief, Development Engineering Division	

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5508000				

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 9/17/20

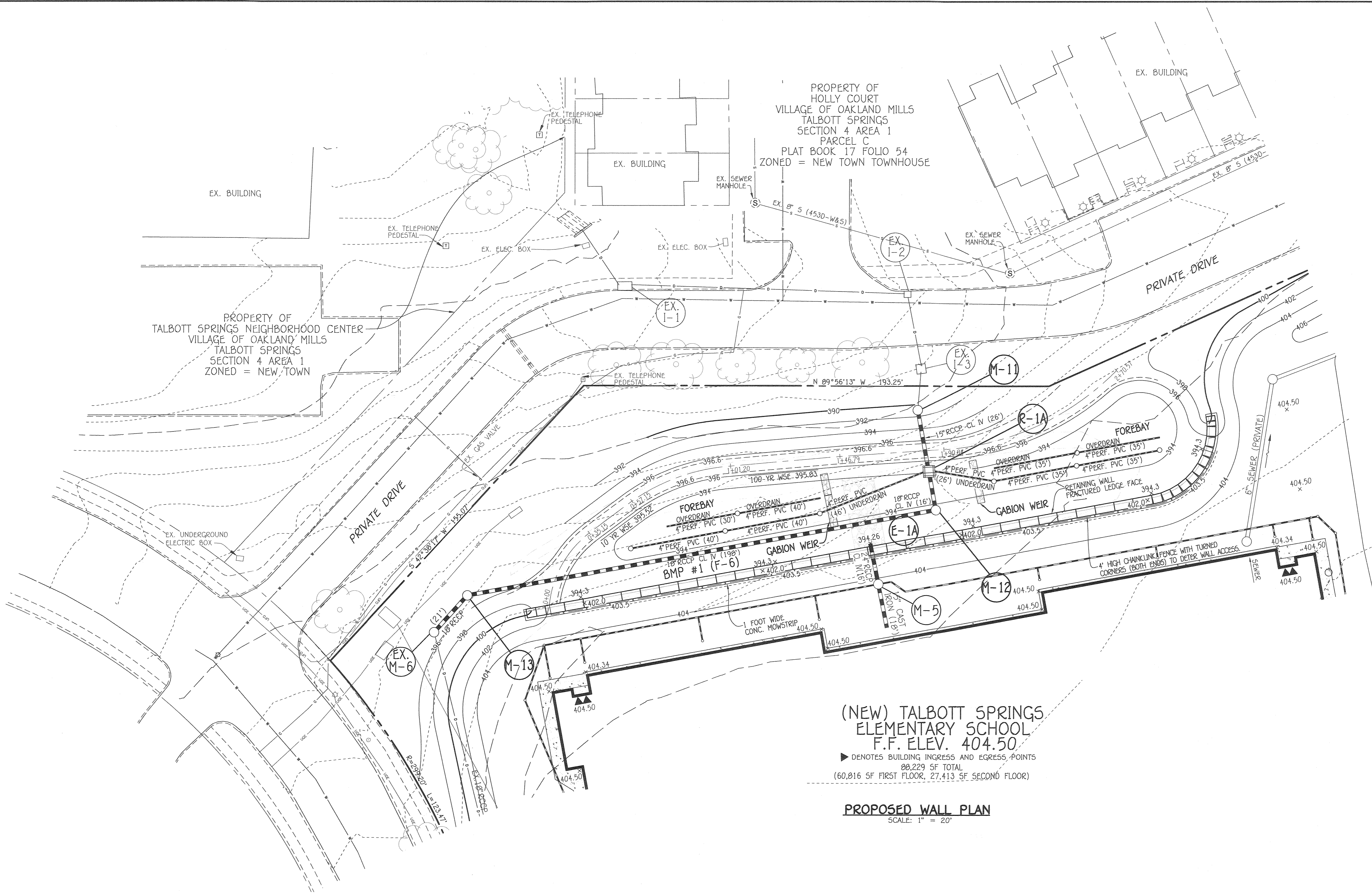
**BIORETENTION FACILITY FOCAL POINT NOTES**

**VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
OPEN SPACE LOT 216  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL**

ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUG. 26, 2020  
SHEET 44 OF 40

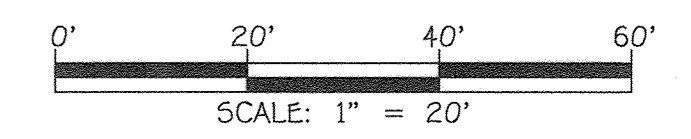


LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING ELECTRIC LINE
---	EXISTING CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FIBER OPTIC
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
+	SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED STORMDRAIN
---	PROPOSED PRIVATE SEWER
---	PROPOSED RIPRAP
(EX. M-1A)	STORM DRAIN AND SEWER STRUCTURE NOMENCLATURE
○	EXISTING VALVE
○	EXISTING LIGHT POLE
▼	BUILDING INGRESS/EGRESS



(NEW) TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
F.F. ELEV. 404.50  
 ▶ DENOTES BUILDING INGRESS AND EGRESS POINTS  
 88,229 SF TOTAL  
 (60,816 SF FIRST FLOOR, 27,413 SF SECOND FLOOR)

**PROPOSED WALL PLAN**  
SCALE: 1" = 20'



**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELKLOTT CITY, MARYLAND 21042  
 (410) 461-1295

\*PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: JANUARY 25, 2024.  
*Paul G. Cavanaugh*  
 PAUL G. Cavanaugh  
 July 19, 2022  
 DATE

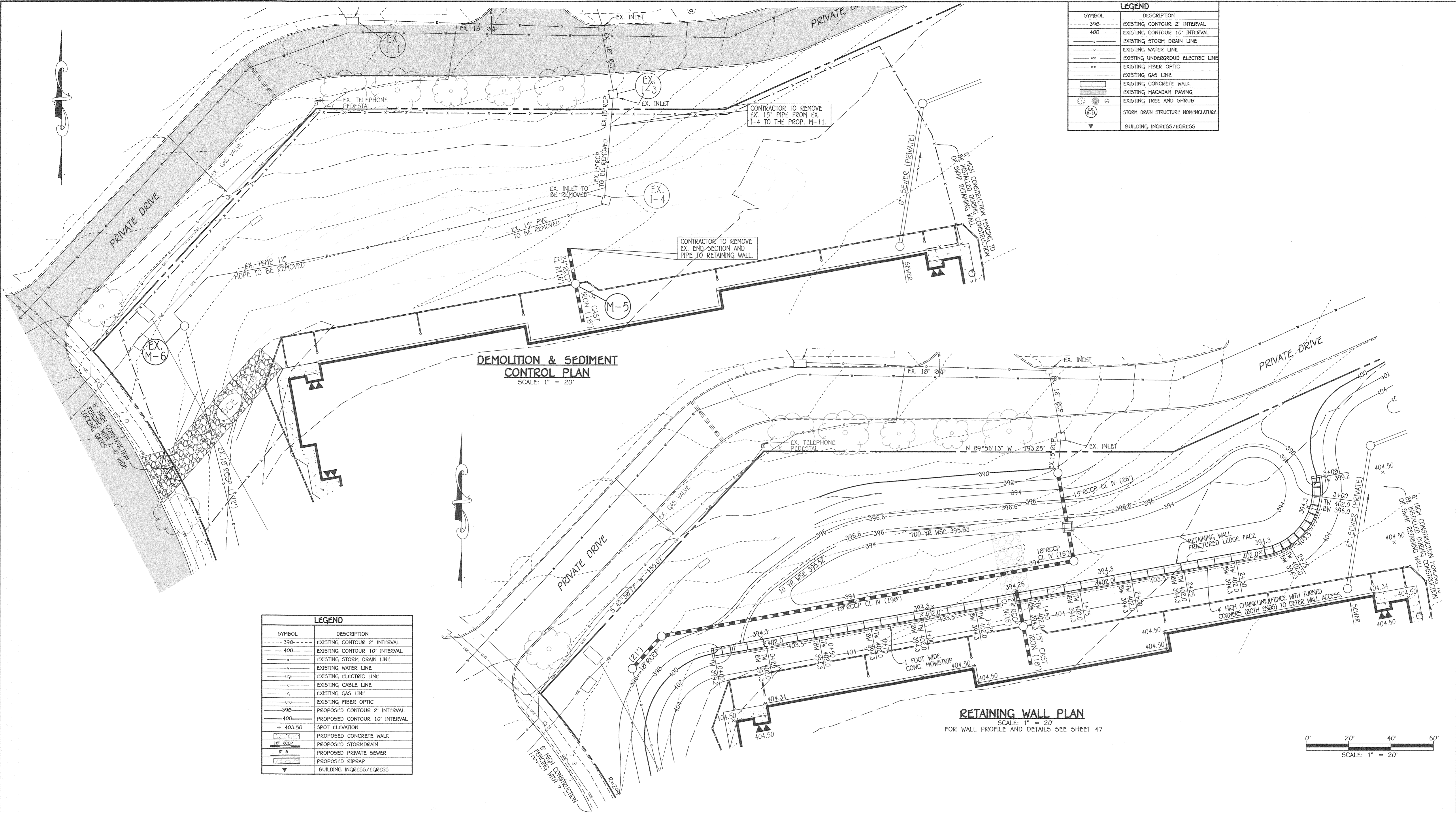
7/7/22	ADDED THIS SHEET TO SET
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Mary A. Kendall for Amy Cowan</i>	8/11/22
Director, Department of Planning and Zoning	Date
<i>[Signature]</i>	8/11/22
Chief, Division of Land Development	Date
<i>[Signature]</i>	8/22
Chief, Development Engineering Division	Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE "C"  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELY  
410-313-8203



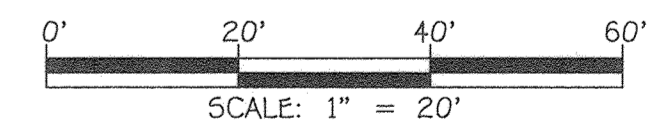
Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E. 03	5580800				

**S.W.M.F. #1 PLAN VIEW**  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 OPEN SPACE LOT 216  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 20' DATE: MAY 31, 2022  
 SHEET 45 OF 49



SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING FIBER OPTIC
---	EXISTING GAS LINE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
---	EXISTING TREE AND SHRUB
---	STORM DRAIN STRUCTURE NOMENCLATURE
---	BUILDING INGRESS/EGRESS

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING ELECTRIC LINE
---	EXISTING CABLE LINE
---	EXISTING GAS LINE
---	EXISTING FIBER OPTIC
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
+	SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED STORMDRAIN
---	PROPOSED PRIVATE SEWER
---	PROPOSED RIPRAP
---	BUILDING INGRESS/EGRESS



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 ELLSWORTH CITY, MARYLAND 21042  
 (410) 461-3295

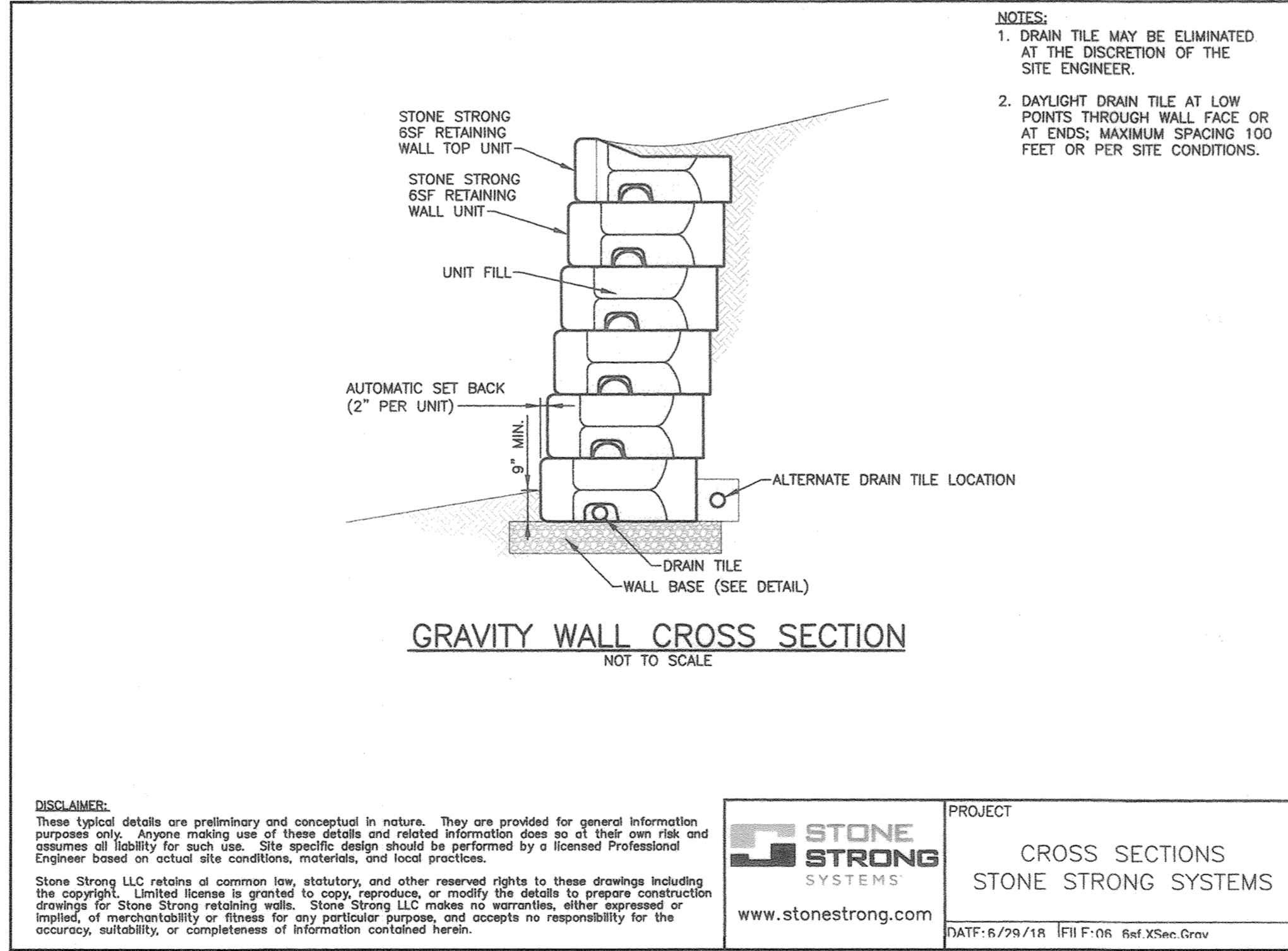
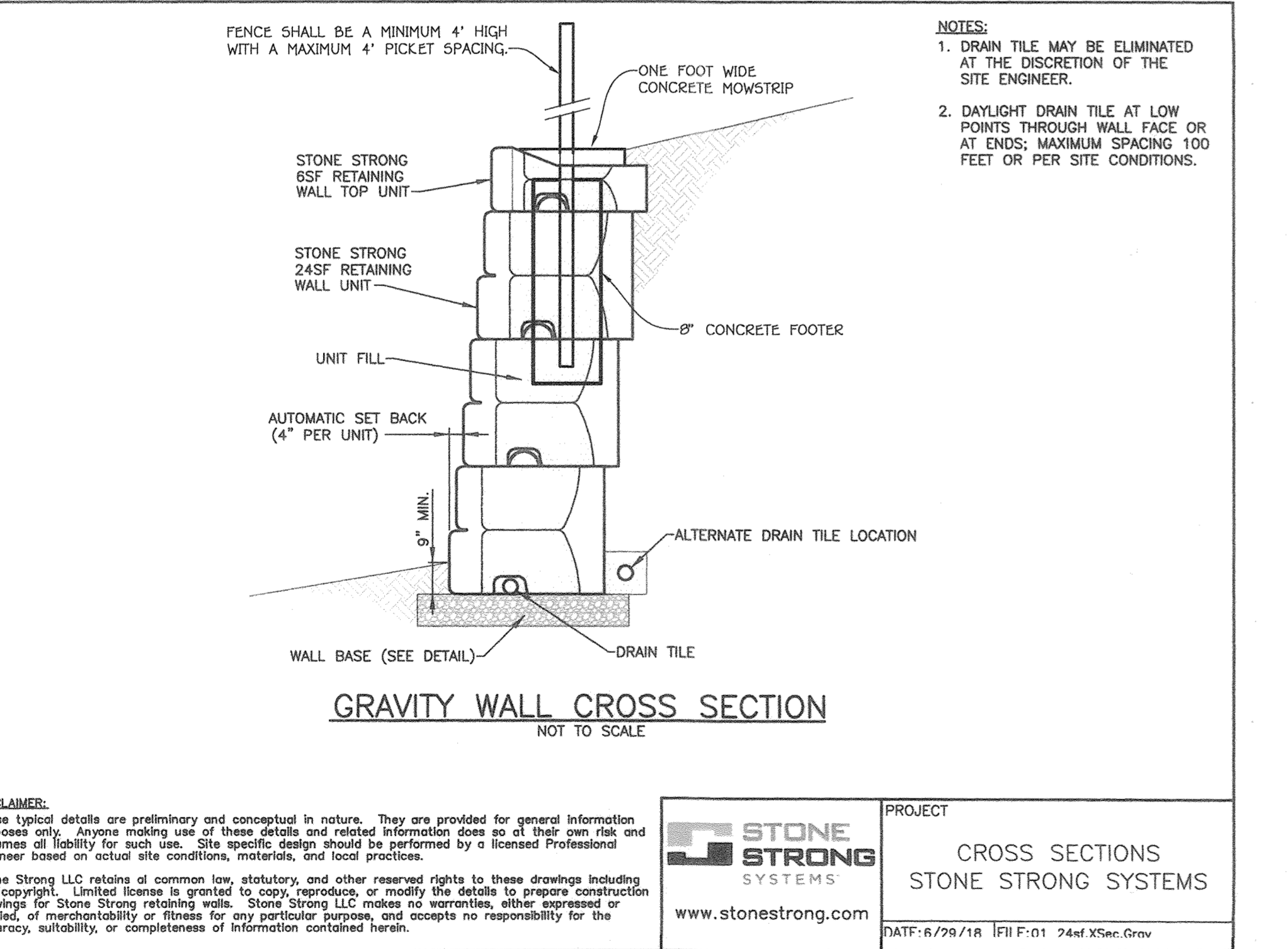
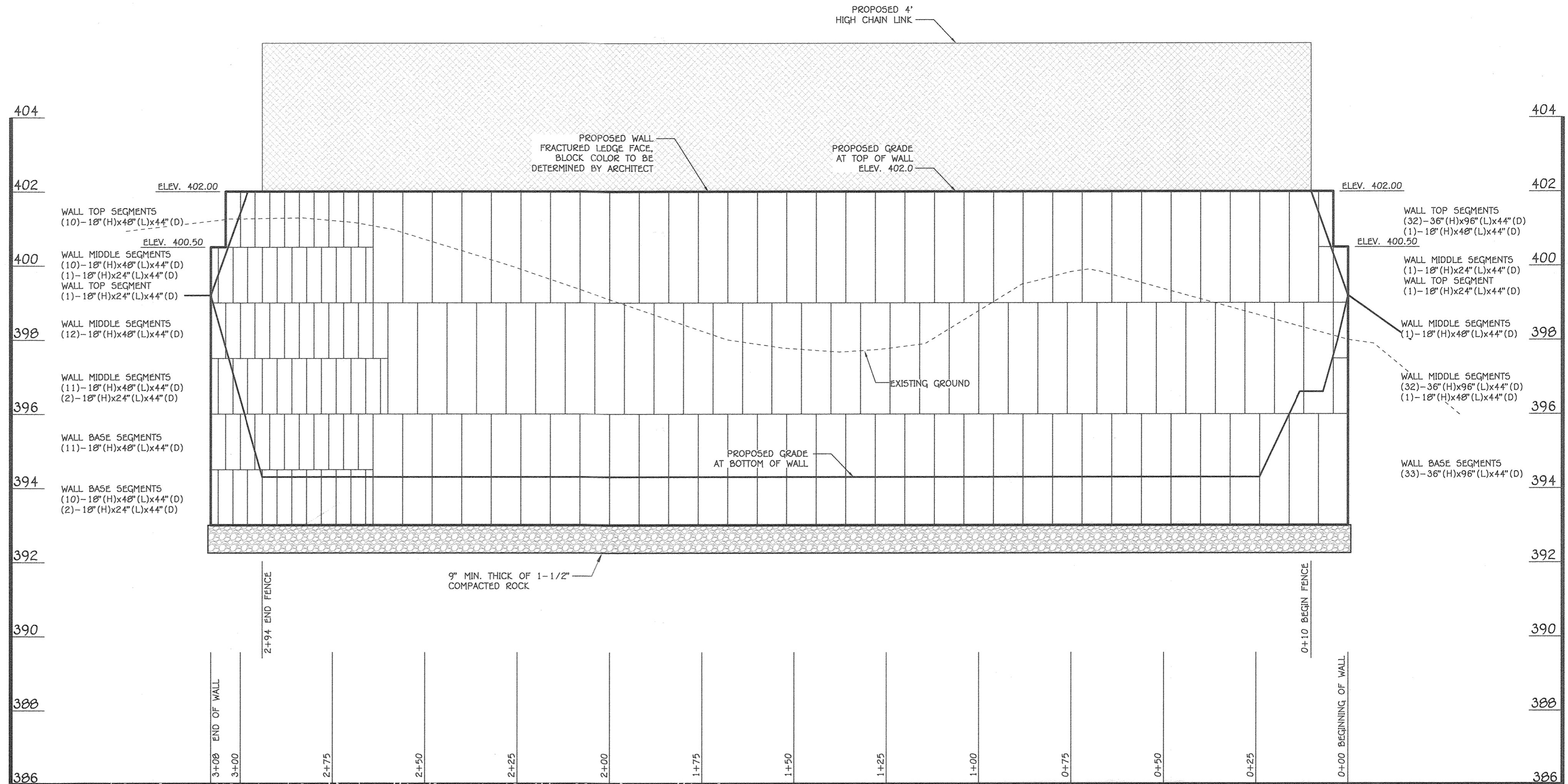
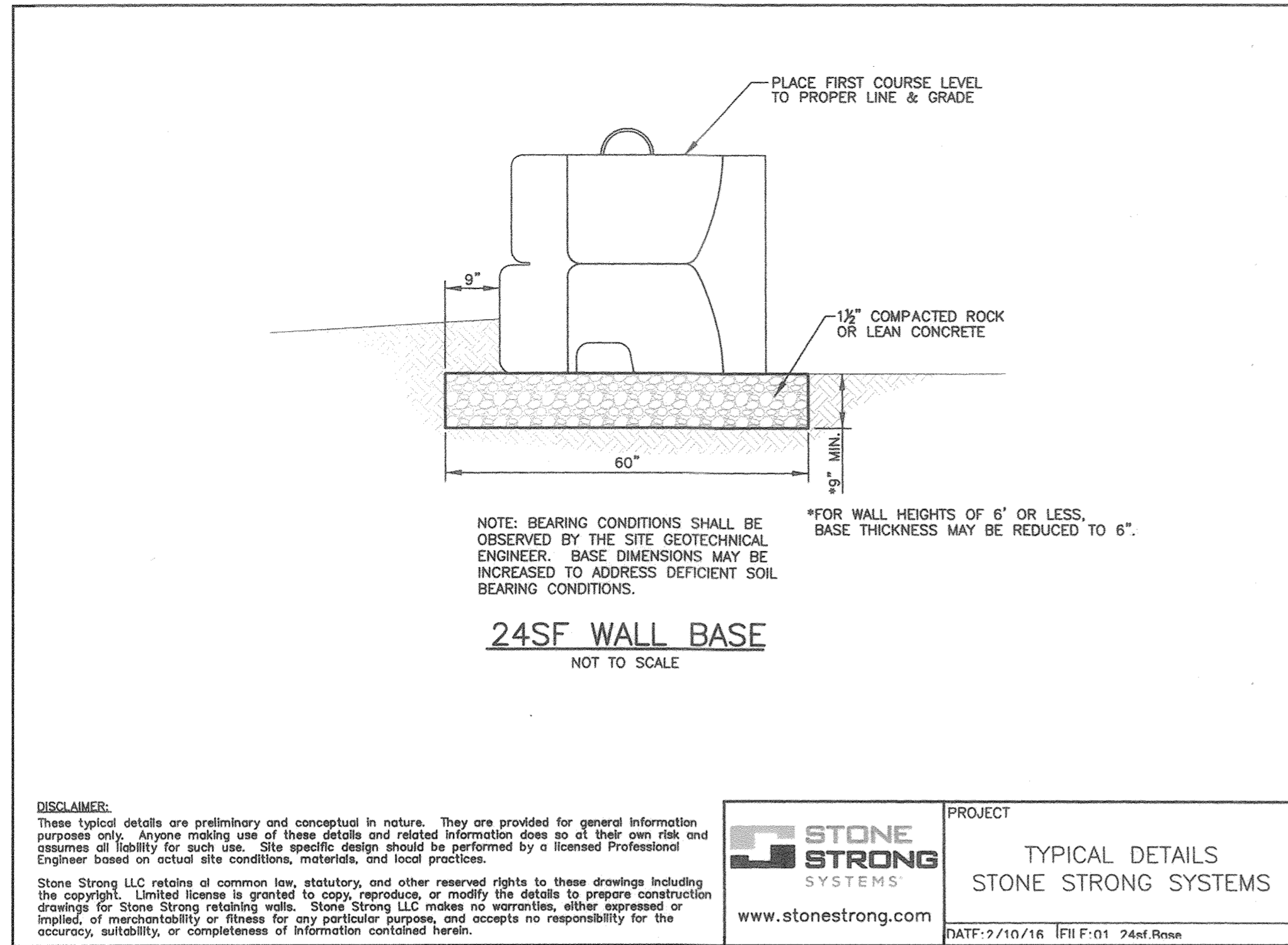
\*PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 27020, EXPIRATION DATE: JANUARY 25, 2024.  
*Paul G. Kavanaugh*  
 PAUL G. KAVANAUGH  
 July 12, 2022  
 DATE

7/7/22 ADDED THIS SHEET TO SET  
 DATE DESCRIPTION  
 REVISION BLOCK  
 APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Mary A. Kendall* For Amy Bowman 8/11/22  
 Director Department of Planning and Zoning  
 Chief, Division of Land Development  
 Chief, Development Engineering Division

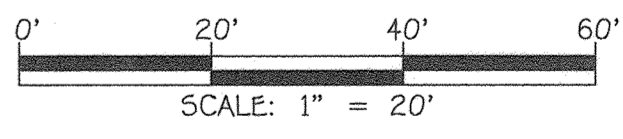
PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 101  
 COLUMBIA, MARYLAND 21045  
 Attention: DANIEL LUBELEY  
 410-313-8203

Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
ELEMENTARY SCHOOL	4/1
PLAT NOS.	BLOCK NO.
L 643/ F. 62	3
WATER CODE	SEWER CODE
E. 03	5580800

**DEMOLITION PLAN AND RETAINING WALL PLAN**  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 OPEN SPACE LOT 216  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 20" DATE: MAY 31, 2022  
 SHEET 46 OF 49



FRACTURED LEDGE FACE RETAINING WALL PROFILE



FISHER, COLLINS & CARTER, INC.  
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 ELIJAH CITY, MARYLAND 21042  
 (410) 461-1295

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: JANUARY 25, 2024."  
 Paul G. Cavanaugh  
 July 19, 2022  
 DATE

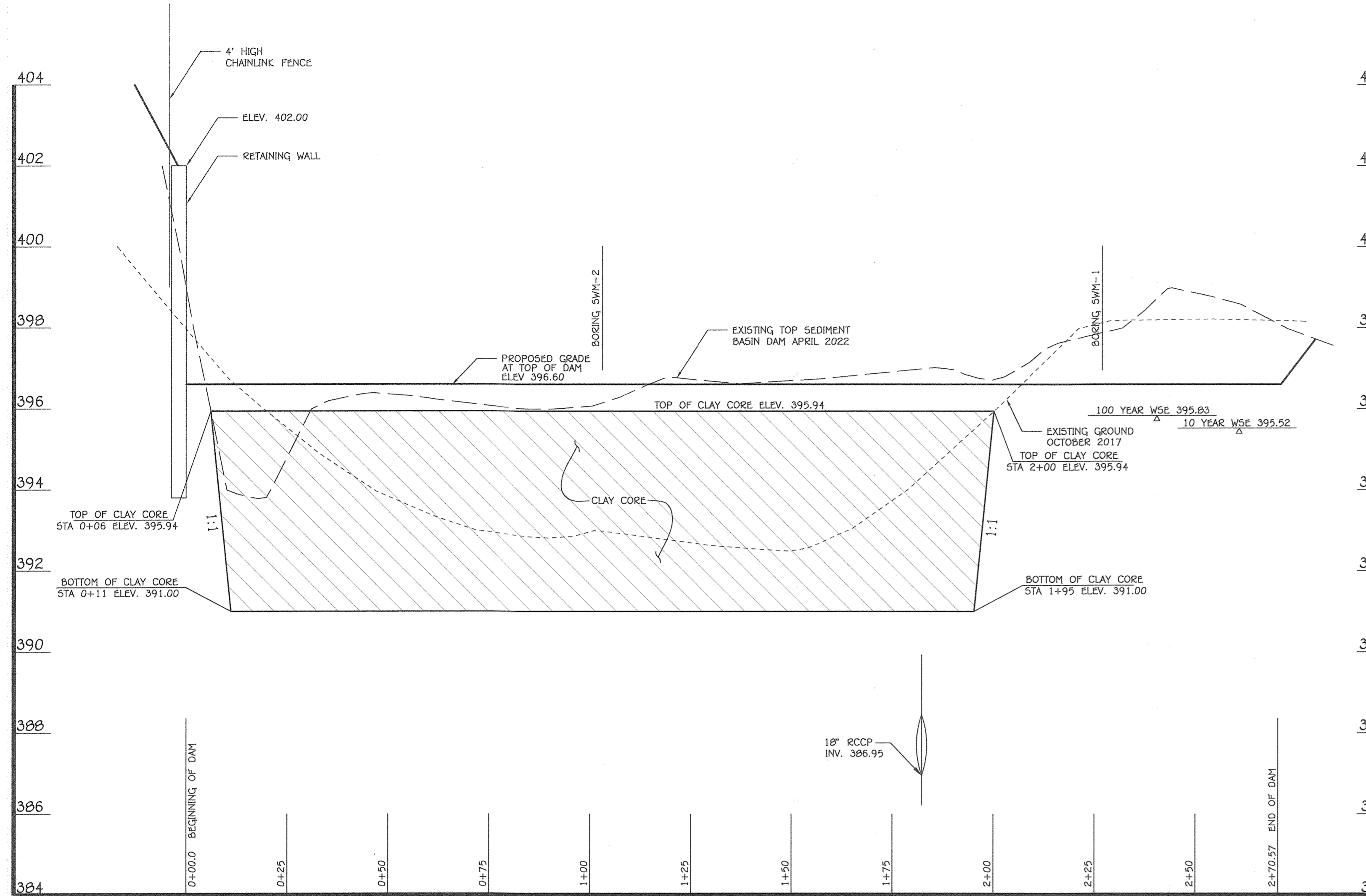
7/7/22	ADDED THIS SHEET TO SET
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
Mary Kendall	8/11/22
Director - Department of Planning and Zoning	Date
Chief, Division of Land Development	8/1/22
Chief, Development Engineering Division	Date

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 'C'  
 COLUMBIA, MARYLAND 21045  
 Attention: DANIEL LUBELEY  
 410-313-8203

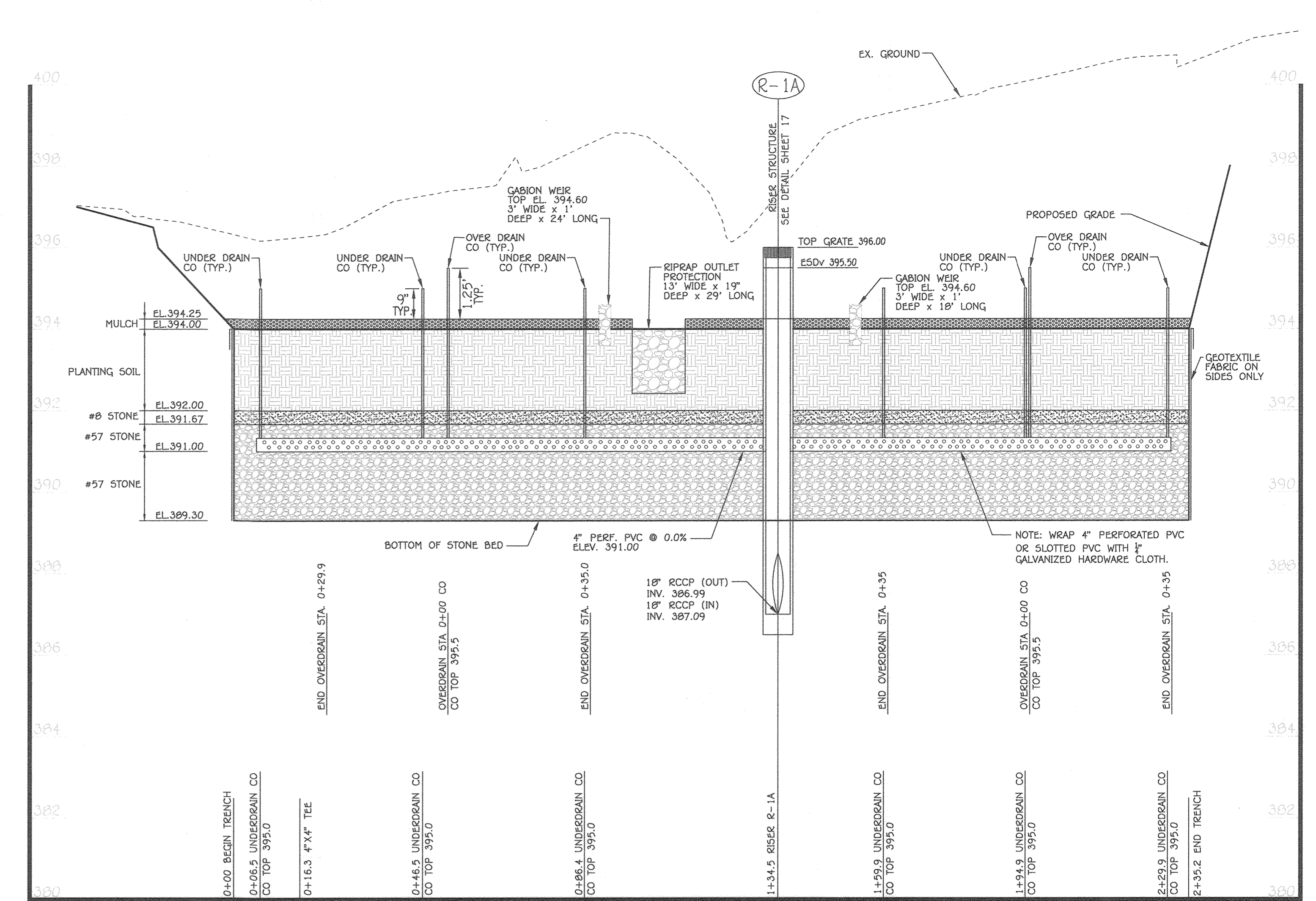


Address Chart	
Parcel Number	Street Address
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
ELEMENTARY SCHOOL	4/1
PLAT NOS.	BLOCK NO.
L. 643/ F. 62	3
WATER CODE	SEWER CODE
E. 03	5580800

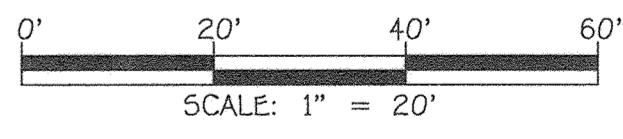
RETAINING WALL PROFILE AND DETAILS  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 OPEN SPACE LOT 216  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 20'  
 DATE: MAY 31, 2022  
 SHEET 47 OF 49



**PROFILE ALONG EMBANKMENT**  
 SCALE: HORIZ. : 1" = 20'  
 VERT. : 1" = 2'



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



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 ELIJAH CITY, MARYLAND 21042  
 (410) 461-2895

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*Paul G. Cavanaugh*  
 PAUL G. CAVANAUGH  
 DATE: *July 13, 2022*

7/7/22	ADDED THIS SHEET TO SET
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Maryland Fox</i>	<i>8/11/22</i>
Director - Department of Planning and Zoning	Date
<i>bluz</i>	
Chief, Division of Land Development	Date
<i>MTA</i>	
Chief, Development Engineering Division	Date

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 'C'  
 COLUMBIA, MARYLAND 21045  
 Attention: DANIEL LUBELEY  
 410-313-8203

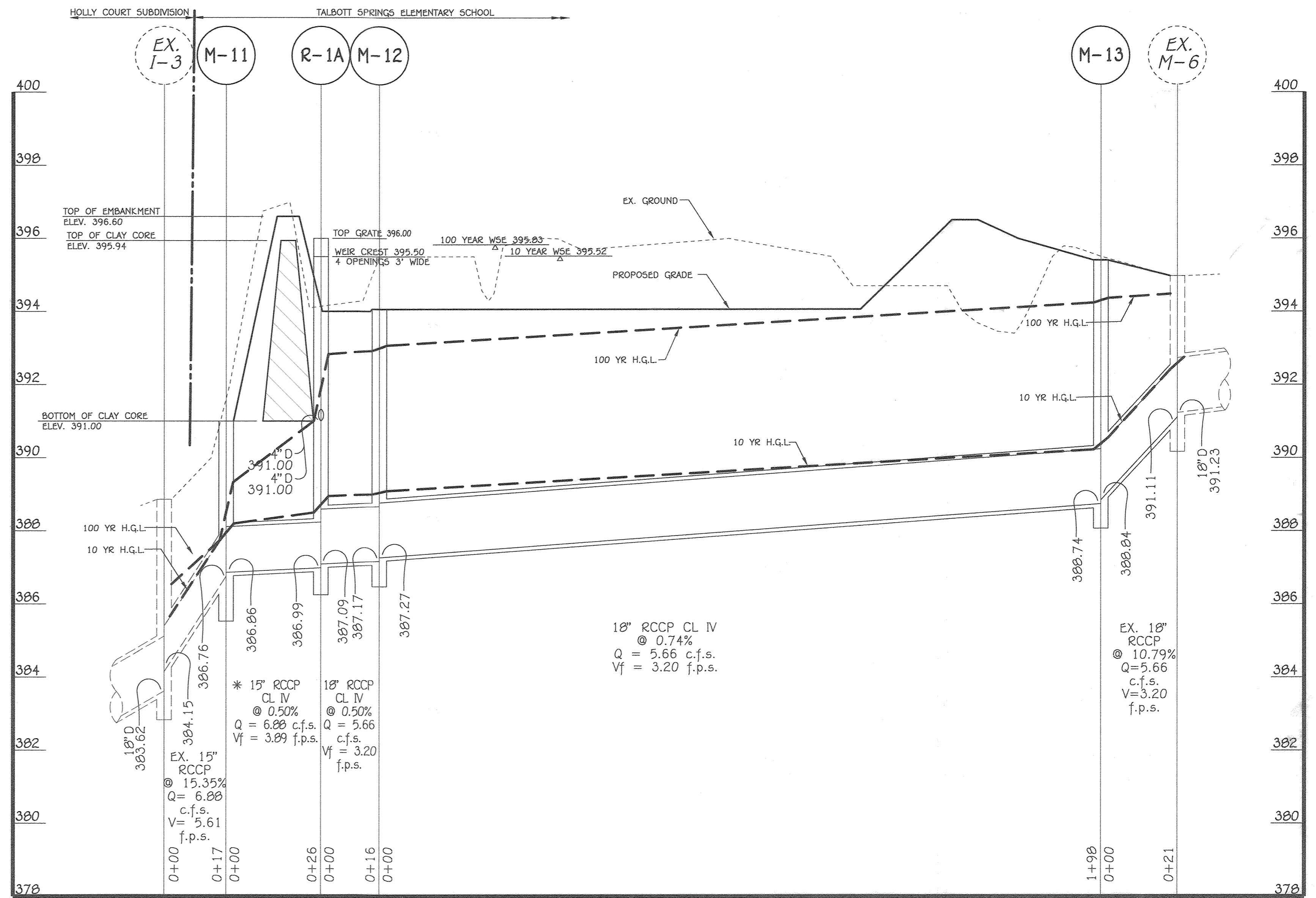


Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	E. 03	SEWER CODE	5580800		

**S.W.M. PROFILES**  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 OPEN SPACE LOT 216  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 20' DATE: MAY 31, 2022  
 SHEET 48 OF 49

I:\2003\03007\Engineering\Drawings\SDP SHEET 48 SWM PROFILES AND DETAIL.dwg, SHEET 46, 7/7/2022 12:34:51 PM, 1-1





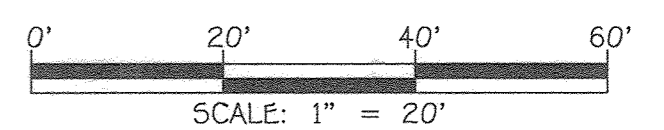
\* INCLUDES ROUTED 1.22 10 YEAR C.F.S. FROM BMP #1

**PROFILE THRU EMBANKMENT**

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

STRUCTURE SCHEDULE								
STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV.IN	INV.OUT	COORDINATES	WIDTH	TYPE	REMARKS
M-11	PRIVATE	391.00	386.86 (18")	386.76 (15")	N 563443.79 E 1356251.96	4'	STD. MANHOLE	G - 5.12
M-12	PRIVATE	394.06	387.27 (18")	387.17 (18")	N 563402.46 E 1356259.50	4'	STD. MANHOLE	G - 5.12
M-13	PRIVATE	395.40	388.84 (18")	388.74 (18")	N 563366.97 E 1356064.99	4'	STD. MANHOLE	G - 5.12
R-1A	PRIVATE	396.00 *	387.09 (18"), 391.00 (4"), 391.00 (4")	386.99 (18")	N 563418.41 E 1356256.68	3.5'	MOD. K INLET	SEE SHEET C-17

\* - DENOTES GRATE ELEVATION  
NOTE: COORDINATES ARE TO CENTER OF MH, CENTER OF INLET @ FACE OF CURB, CENTER OF RISER STRUCTURE.



**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
(410) 461-3999

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: JANUARY 25, 2024."

*Paul G. Cavanaugh*  
PAUL G. Cavanaugh

*July 19, 2022*  
DATE

7/7/22	ADDED THIS SHEET TO SET
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Maura Kendall</i>	<i>8/11/22</i>
Director, Department of Planning and Zoning	Date
<i>Allyson</i>	<i>8/11/22</i>
Chief, Division of Land Development	Date
<i>Allyson</i>	<i>8/11/22</i>
Chief, Development Engineering Division	Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: DANIEL LUBELEY  
410-313-8203



Address Chart					
Parcel Number	Street Address				
283	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045				
PROJECT	SECTION/AREA	PARCEL			
ELEMENTARY SCHOOL	4/1	283			
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	NEW TOWN	36	SIXTH	606603
WATER CODE	SEWER CODE				
E 03	5580800				

**S.W.M. PROFILE AND STRUCTURE SCHEDULE**  
**VILLAGE OF OAKLAND MILLS SECTION 4 AREA 1 OPEN SPACE LOT 216 TALBOTT SPRINGS ELEMENTARY SCHOOL**  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 20' DATE: MAY 31, 2022  
SHEET 49 OF 49