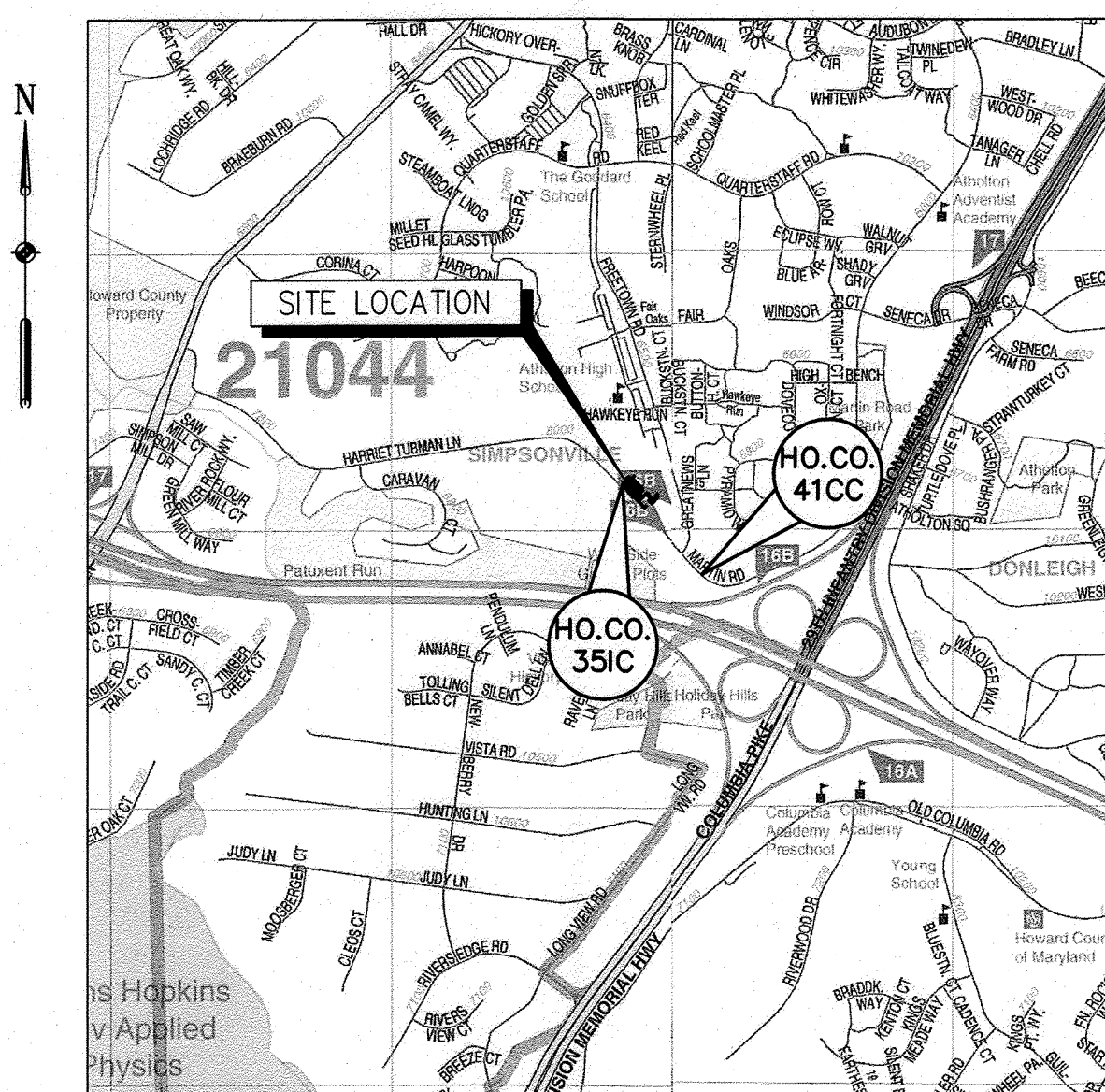


ENVIRONMENTAL CONCEPT PLAN

Auditorium Renovations

Harriet Tubman Building

8045 HARRIET TUBMAN LANE
COLUMBIA, MARYLAND 21044
5th ELECTION DISTRICT



VICINITY MAP
SCALE: 1"=2000'

HOWARD COUNTY ADC MAP 37 (F5) & 38 (A5)
Permitted Use No. BJE071327

HOWARD COUNTY REFERENCE DRAWINGS:
WATER: CONTRACT 34-3273, 24-3265
SEWER: CMP 1784/75
SDP-06-137, SDP-01-116, SDP-89-028

PROPERTY AREA TOTAL	2.04 AC.	
LIMIT OF DISTURBANCE (LOD)	0.90 AC.±	
PROPOSED USE	RECREATIONAL BUILDING	
GREEN OPEN AREA (LOD)	0.34 AC.	
IMPERVIOUS AREA (LOD)	0.56 AC.	
STREAM BUFFER	0.00 AC. (W/I LOD)	0.00 AC. (OVERALL PROPERTY)
WETLANDS	0.00 AC. (W/I LOD)	0.00 AC. (OVERALL PROPERTY)
WETLANDS BUFFER	0.00 AC. (W/I LOD)	0.00 AC. (OVERALL PROPERTY)
100-YEAR FLOODPLAIN	0.00 AC. (W/I LOD)	0.00 AC. (OVERALL PROPERTY)
FOREST CONSERVATION AREA	0.00 AC. (W/I LOD)	0.00 AC. (OVERALL PROPERTY)
STEEP SLOPE (15% - 24.9%) AREA	88 SQ. FT. (W/I LOD)	2,266 SQ. FT. (OVERALL PROPERTY)
ERODIBLE SOILS		
STEEP SLOPE (25% & GREATER) AREA	0 SQ. FT. (W/I LOD)	0 SQ. FT. (OVERALL PROPERTY)
ERODIBLE SOILS		

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	ECP COVERSHEET
2	EXISTING CONDITIONS PLAN
3	ENVIRONMENTAL CONCEPT PLAN
4	ECP EROSION & SEDIMENT CONTROL PLANS
5	ECP STORMWATER MANAGEMENT PLAN

NATURAL RESOURCE PROTECTION

NATURAL RESOURCES PROTECTION WILL BE MET BY MINIMIZING THE AMOUNT OF TREE REMOVAL TO THE EXTENT PRACTICAL. IN ADDITION, THERE ARE NO FOREST CONSERVATION EASEMENTS, WETLANDS, WETLAND BUFFER, STREAMS, STREAM BUFFER AREAS OR 100-YEAR FLOODPLAIN ON THE SITE, SO NONE WILL BE IMPACTED. STEEP SLOPES ARE MINIMAL AND ONLY EXIST AT THE SWALE ALONG HARRIET TUBMAN LANE. PLANTED AREAS ARE PROPOSED THROUGHOUT THE SITE TO PROVIDE HABITAT AND GREEN SPACE. THE MODULAR WETLANDS SYSTEM WILL CONTRIBUTE TO GREEN SPACE BY ADDING QUALITY AND QUANTITY CONTROL TO POTENTIALLY PROTECT SURROUNDING DOWNSTREAM AREAS.

MAINTENANCE OF NATURAL FLOW PATTERNS

NATURAL DRAINAGE PATTERNS WILL BE MAINTAINED WHERE PRACTICAL. IT IS THE INTENT TO RETAIN THE EXISTING DRAINAGE PATTERNS, IN ORDER, TO MAINTAIN OR REDUCE DISCHARGES. THE USE OF PROPOSED STORMWATER MANAGEMENT (SWM) FACILITIES WILL ASSIST TO MINIMIZE PROPOSED DISCHARGE RATE AND WITH REMOVAL OF POLLUTANTS.

REDUCTION OF IMPERVIOUS AREA

THE NEW PARKING LOT INCREASES THE OVERALL SITE IMPERVIOUS BY 2,123 S.F. HOWEVER, THROUGH THE USE OF STORMWATER MANAGEMENT FACILITIES AND STORAGE PIPING, THE HIGH RUNOFF RATE WILL BE ATTENUATED FOR THE 1-YR, 10-YR AND 100-YR RAIN EVENTS.

INTEGRATION OF EROSION AND SEDIMENT CONTROLS INTO STORMWATER MANAGEMENT STRATEGY

PREPARATION OF EROSION & SEDIMENT CONTROL PLANS WILL BE PER THE 'MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL'. THE INTENT OF THE DESIGN IS TO PROTECT DOWNSTREAM NATURAL FEATURES FROM EROSION, CAPTURE SEDIMENT ON-SITE, AND MEET APPLICABLE GUIDELINES AND REQUIREMENTS. THE FINAL DESIGNS INCLUDE INDIVIDUAL CONTROL DEVICES SUCH AS STABILIZED CONSTRUCTION ENTRANCES, SUPER SILT FENCE AND OTHER MEASURES AS NEEDED.

IMPLEMENTATION OF ESD PLANNING AND PRACTICES TO THE MEP

MODULAR WETLANDS SYSTEMS WILL BE THE ESD TO THE MEP PRACTICE UTILIZED FOR THIS PROJECT. THE ESD FACILITY HAS BEEN STRATEGICALLY PLACED ON THE SITE TO CAPTURE IMPERVIOUS SURFACE RUNOFF TO THE MOST EXTENT POSSIBLE. CHANNEL PROTECTION (CPV) REQUIREMENTS WILL AUTOMATICALLY BE MET WITH THE ESD FACILITIES RECHARGE REQUIREMENT THAT WILL BE PROVIDED IN STONE BEDS BELOW THE ESD.

DESIGN MANUAL AND WAIVER PETITIONS

A DESIGN MANUAL AND ALTERNATIVE COMPLIANCE FOR ENVIRONMENTAL AND STORMWATER DESIGN WILL NOT BE REQUIRED.

GENERAL NOTES

- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN TOPOGRAPHICAL SURVEY WITH ONE FOOT CONTOUR INTERVALS PREPARED BY A/I/DATE, DATED MAY 2020. ADDITIONAL INFORMATION ON UTILITIES, BUILDINGS, AND HARDSCAPE LOCATIONS ARE BASED UPON COUNTY GIS, AS-BUILT DRAWINGS, UTILITY LOCATION AND FIELD OBSERVATION.
- ALL HORIZONTAL SURVEY DATA SHOWN HEREON ARE REFERENCED TO THE MARYLAND COORDINATE SYSTEM NAD83 (NA2011), AND ALL VERTICAL SURVEY DATA SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AS DERIVED FROM THE FOLLOWING POINTS PROVIDED BY THE HOWARD COUNTY BUREAU OF ENGINEERING:

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
35IA	555450.56	1346039.78	412.30	CONC MONUMENT
35IC	553504.39	1346160.58	414.35	CONC MONUMENT
41CC	552494.25	1347062.46	399.99	CONC MONUMENT
- SITE IS CURRENTLY SERVED BY PUBLIC WATER AND SANITARY.
- ALL STORMWATER MANAGEMENT PRACTICES SHALL BE BASED ON CURRENT STATE OF MARYLAND REQUIREMENTS. STORMWATER MANAGEMENT QUALITY CONTROLS WILL MOST LIKELY BE PROVIDED BY THE IMPLEMENTATION OF MODULAR WETLANDS SYSTEMS (MWS) OR OTHER APPROVED ENVIRONMENTALLY SENSITIVE DESIGN PRACTICES THROUGHOUT THE SITE.
- THE HARRIET TUBMAN BUILDING IS NOT WITHIN WETLANDS, WETLANDS BUFFERS, STREAM, STREAM BUFFERS OR 100-YEAR FLOODPLAIN. THE PROJECT AREA DOES NOT CONTAIN STEEP SLOPES 15% AND GREATER.
- THIS PROJECT IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS UNDER SECTION 16.1202.(B)(1)(ii) OF THE MANUAL.
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR RED-LINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.
- HOWARD COUNTY REFERENCE DRAWINGS: SDP-06-137, SDP-89-028, F-18-002

APPROVED:
DEPARTMENT OF PLANNING AND ZONING

[Signature] 2/17/21
DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 2/15/21
DATE

CHIEF, DIVISION OF LAND DEVELOPMENT

USE	STREET ADDRESS
RECREATIONAL BUILDING	8045 HARRIET TUBMAN LANE

SUBDIVISION NAME	SECTION/AREA	LOT/ PARCEL NO.
ATHLTON HIGH SCHOOL	N/A	2/0282
24451-53	0024	R-SC 0035 5th Ed.

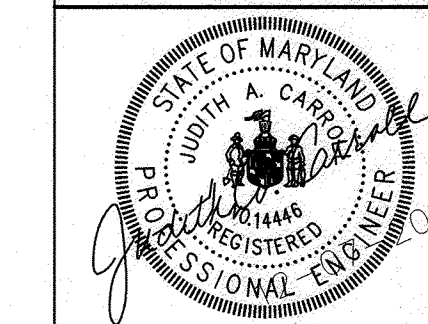
OWNER/DEVELOPER
HOWARD COUNTY RECREATION AND PARKS
CONTACT: MICHAEL KAMINETZ, 410-313-5781
8045 HARRIET TUBMAN LANE
COLUMBIA, MD 21044

Murphy & Dittenhafer
ARCHITECTS

228 West Market Street, York, Pennsylvania 17401
410-662-6623 voice 410-662-6674 fax

800 North Chelms Street, Baltimore, Maryland 21201
410-625-6623 voice 410-662-6674 fax

Description	Date	Mark



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No.: 14446 EXP. DATE: 5/25/22

PROJECT NO.: 18104

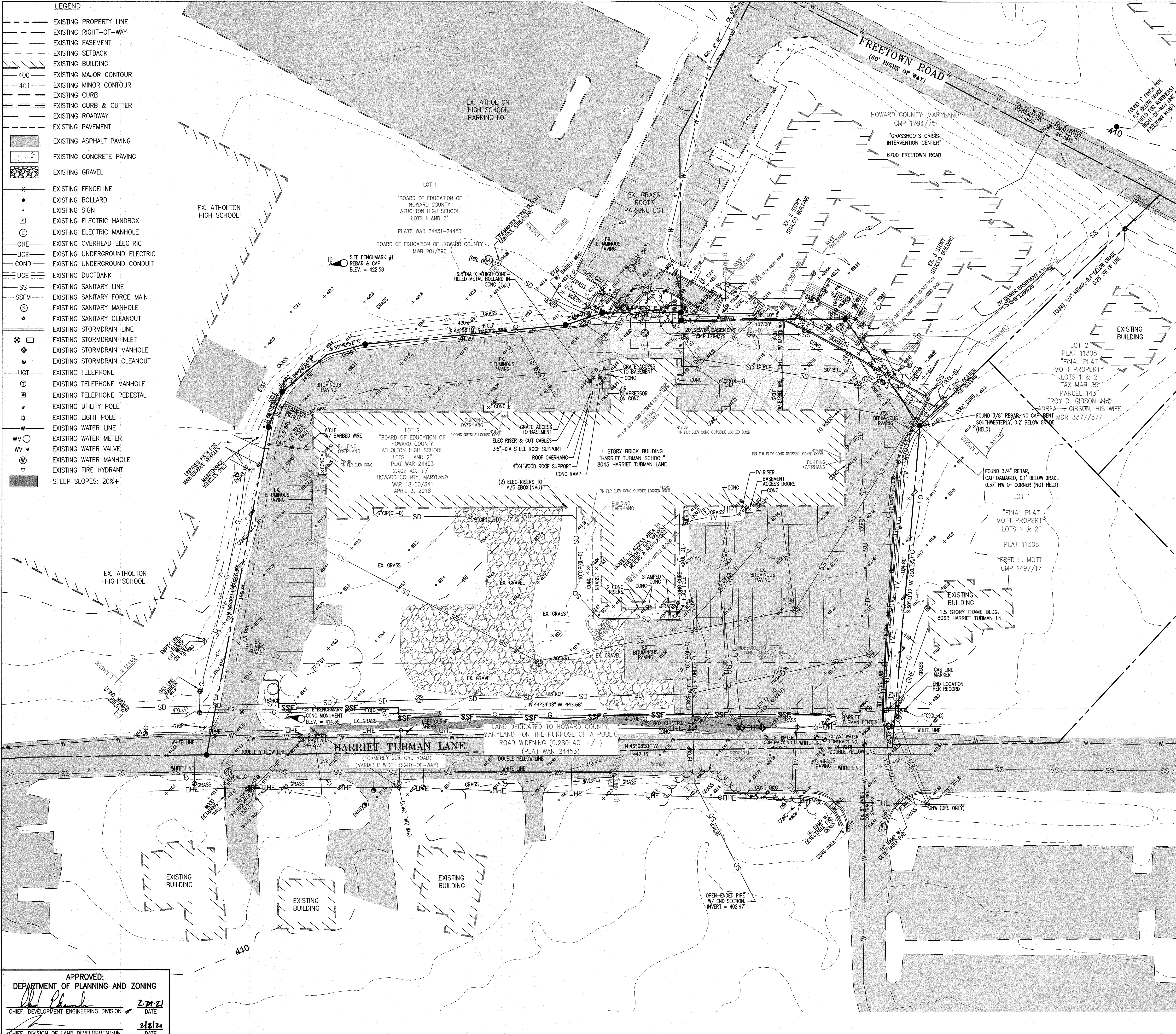
DRAWN BY: DWM

CHECKED BY: DWM

SHEET NAME:
ECP COVERSHEET

SHEET NO.:
1

AUDITORIUM RENOVATIONS
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE, COLUMBIA MARYLAND



- LEGEND**
- EXISTING PROPERTY LINE
 - EXISTING RIGHT-OF-WAY
 - EXISTING EASEMENT
 - EXISTING SETBACK
 - EXISTING BUILDING
 - 400 --- EXISTING MAJOR CONTOUR
 - 401 --- EXISTING MINOR CONTOUR
 - EXISTING CURB
 - EXISTING CURB & GUTTER
 - EXISTING ROADWAY
 - EXISTING PAVEMENT
 - EXISTING ASPHALT PAVING
 - EXISTING CONCRETE PAVING
 - EXISTING GRAVEL
 - EXISTING FENCELINE
 - EXISTING BOLLARD
 - ▲ EXISTING SIGN
 - ☒ EXISTING ELECTRIC HANDBOX
 - ⊙ EXISTING ELECTRIC MANHOLE
 - OHE EXISTING OVERHEAD ELECTRIC
 - UGE EXISTING UNDERGROUND ELECTRIC
 - COND EXISTING UNDERGROUND CONDUIT
 - UGE EXISTING DUCTBANK
 - SS EXISTING SANITARY LINE
 - SSFM EXISTING SANITARY FORCE MAIN
 - ⊙ EXISTING SANITARY MANHOLE
 - ⊙ EXISTING SANITARY CLEANOUT
 - ⊙ EXISTING STORMDRAIN LINE
 - ⊙ EXISTING STORMDRAIN INLET
 - ⊙ EXISTING STORMDRAIN MANHOLE
 - ⊙ EXISTING STORMDRAIN CLEANOUT
 - UGT EXISTING TELEPHONE
 - ⊙ EXISTING TELEPHONE MANHOLE
 - EXISTING TELEPHONE PEDESTAL
 - EXISTING UTILITY POLE
 - EXISTING LIGHT POLE
 - EXISTING WATER LINE
 - WM ○ EXISTING WATER METER
 - WV ○ EXISTING WATER VALVE
 - ⊙ EXISTING WATER MANHOLE
 - ⊙ EXISTING FIRE HYDRANT
 - STEEP SLOPES: 20%+

GENERAL NOTES:

- FIELD RUN TOPOGRAPHICAL AND BOUNDARY SURVEY PERFORMED BY A/I/DA, DATED APRIL/MAY 2020. ADDITIONAL INFORMATION ON UTILITIES, BUILDINGS, AND HARDSCAPES LOCATIONS ARE BASED UPON COUNTY GIS DATA, AS-BUILT DRAWINGS, UTILITY LOCATION AND FIELD OBSERVATION AND IS NOT GUARANTEED TRUE & CORRECT.
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35IC	553504.39	1346160.58	414.35	CONC MONUMENT
41CC	552494.25	1347062.46	399.99	CONC MONUMENT
- EXISTING UNDERGROUND UTILITIES DESIGNATED ON THE PLANS ARE BASED ON CURRENTLY AVAILABLE INFORMATION AND ARE SHOWN FOR REFERENCE ONLY. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SAID INFORMATION BEYOND THE DESIGNATION INDICATED. THE QUALITY LEVEL DESIGNATED IS IN ACCORDANCE WITH ASCE "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" (CI/ASCE 38-02). THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THESE STANDARDS PRIOR TO ANY RELIANCE ON THE INFORMATION SHOWN ON THESE PLANS. PRIOR TO ANY EXCAVATION, IN THE ABSENCE OF QUALITY LEVEL A OR B DESIGNATION, THE CONTRACTOR SHALL VERIFY, TO HIS OWN SATISFACTION, THE EXISTENCE, DEPTH, SIZE, MATERIAL, AND LOCATION OF ALL UNDERGROUND UTILITIES, AND DETERMINE WHETHER THOSE UTILITIES ARE LIVE. ANY EARTHWORK IN LOCATIONS WHERE UTILITIES ARE POSSIBLE SHALL BE DONE WITH EXTREME CAUTION. THE GIVING OF INFORMATION ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO SUPPORT AND PROTECT ALL DESIGNATED OR UNDESIGNATED EXISTING UTILITIES AND APPURTENANCES. SHOULD ANY EXISTING UTILITY BE DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE DAMAGE CAUSED TO THE UTILITY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
- LIVE UNDERGROUND UTILITIES MAY EXIST WITHIN THE WORK AREA. CONTRACTOR SHALL USE EXTREME CAUTION AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- INFORMATION SHOWN ON THIS DRAWING HAS BEEN PROVIDED AS A GUIDE TO ASSIST THE CONTRACTOR IN ESTABLISHING THE LOCATIONS OF PROPOSED CONSTRUCTION WITH RESPECT TO EXISTING SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL CONSTRUCTION SURVEY STAKEOUT REQUIRED AND TO FIELD VERIFY ALL GRADES, ELEVATIONS, DIMENSIONS, ETC. PRIOR TO STARTING CONSTRUCTION.

SURVEY CONTROL TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	553552.00	1346115.84	415.45	REBAR & CAP
101	553609.88	1346380.45	422.58	REBAR & CAP
102	553347.92	1346598.24	413.99	REBAR & CAP
103	553229.75	1346445.86	408.87	REBAR & CAP

UTILITY DESIGNATION DESCRIPTION:

QUALITY LEVEL D (QL-D):
INCLUDES UTILITIES DESIGNATED THROUGH RECORD DOCUMENTS. THIS DATA COULD BE DIGITAL RECORDS, PAPER RECORDS, OR GIS DATA. THE AVAILABLE DATA COULD BE LIMITED AND NOT PRODUCE A COMPLETE PICTURE OF WHAT IS ON SITE. THE SOURCE OF SOME DATA MAY BE UNKNOWN, THE COMPLETENESS AND ACCURACY OF THE INFORMATION COULD BE COMPROMISED. HOWEVER, THE DATA COLLECTED IS SHOWN AND DESIGNATED SO AS TO REFLECT THE POTENTIAL FOR THE EXISTENCE OF UTILITIES.

QUALITY LEVEL C (QL-C):
INCLUDES UTILITIES DESIGNATED THROUGH THE PROCESS OF SURVEYING THE VISIBLE UTILITY SURFACE FEATURES. THIS DATA IS COMPILED WITH THE QUALITY LEVEL D DATA TO PROVIDED AN INCREASED, NOT ABSOLUTE, LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE, QUALITY LEVEL D INFORMATION.

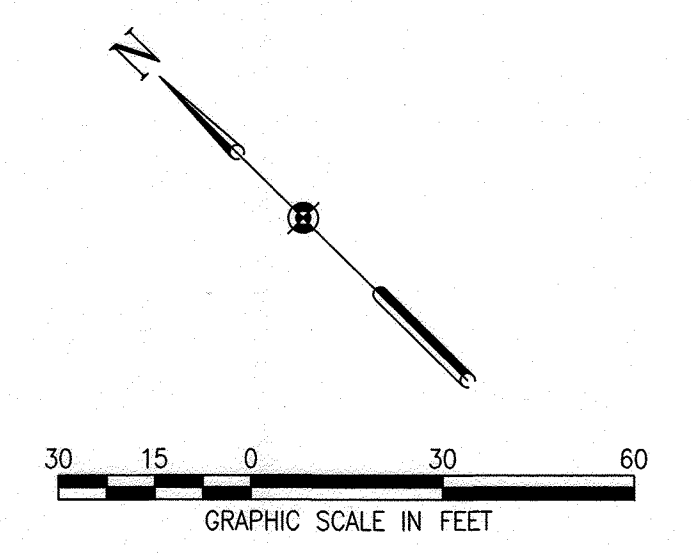
QUALITY LEVEL B (QL-B):
INCLUDES DESIGNATING THE UNDERGROUND UTILITIES BY MARKINGS PROVIDED THROUGH AN 811 CALL, BY CONTACTING AN INDIVIDUAL UTILITY COMPANY, OR PERFORMING TRACING OR GROUND PENETRATING RADAR. THE DESIGNATED UTILITY MARKINGS ARE THEN SURVEYED AND ADDED TO THE DRAWING. THIS DATA IS ADDED TO THE DATA COLLECTED FROM QUALITY LEVELS D AND C TO PROVIDE AN INCREASED LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE UTILITIES.

QUALITY LEVEL A (QL-A):
INVOLVES PHYSICALLY LOCATING THE ACTUAL UTILITY BY MEANS OF TEST PITTING OR OTHER METHODS OF EXPOSURE. ONCE THE UTILITY IS EXPOSED IT IS LOCATED HORIZONTALLY AND VERTICALLY BY SURVEY MEASUREMENTS.

AUDITORIUM RENOVATIONS
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE, COLUMBIA MARYLAND

Murphy & Dittmerhafer
A R C H I T E C T S
208 West Market Street, York, Pennsylvania 17401
717-846-8057 voice 717-846-5458 fax

Description	Date	Mark



APPROVED:
DEPARTMENT OF PLANNING AND ZONING
2-21-21
DATE

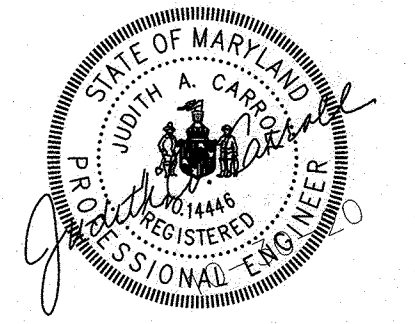
ADDRESS CHART

USE	STREET ADDRESS
RECREATIONAL BUILDING	8045 HARRIET TUBMAN LANE

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NO.
ATHOLTON HIGH SCHOOL	N/A	2/2992

PLAT OR L/P	ORIG	ZONING	USE	TAX MAP	ELECTR. DISTR.	CENSUS TRACT
24481-53	0024	R-3C	0005	4th ED.	-	-

OWNER/DEVELOPER
HOWARD COUNTY RECREATION AND PARKS
CONTACT: MICHAEL KAMINETZ, 410-313-5781
8045 HARRIET TUBMAN LANE
COLUMBIA, MD 21044



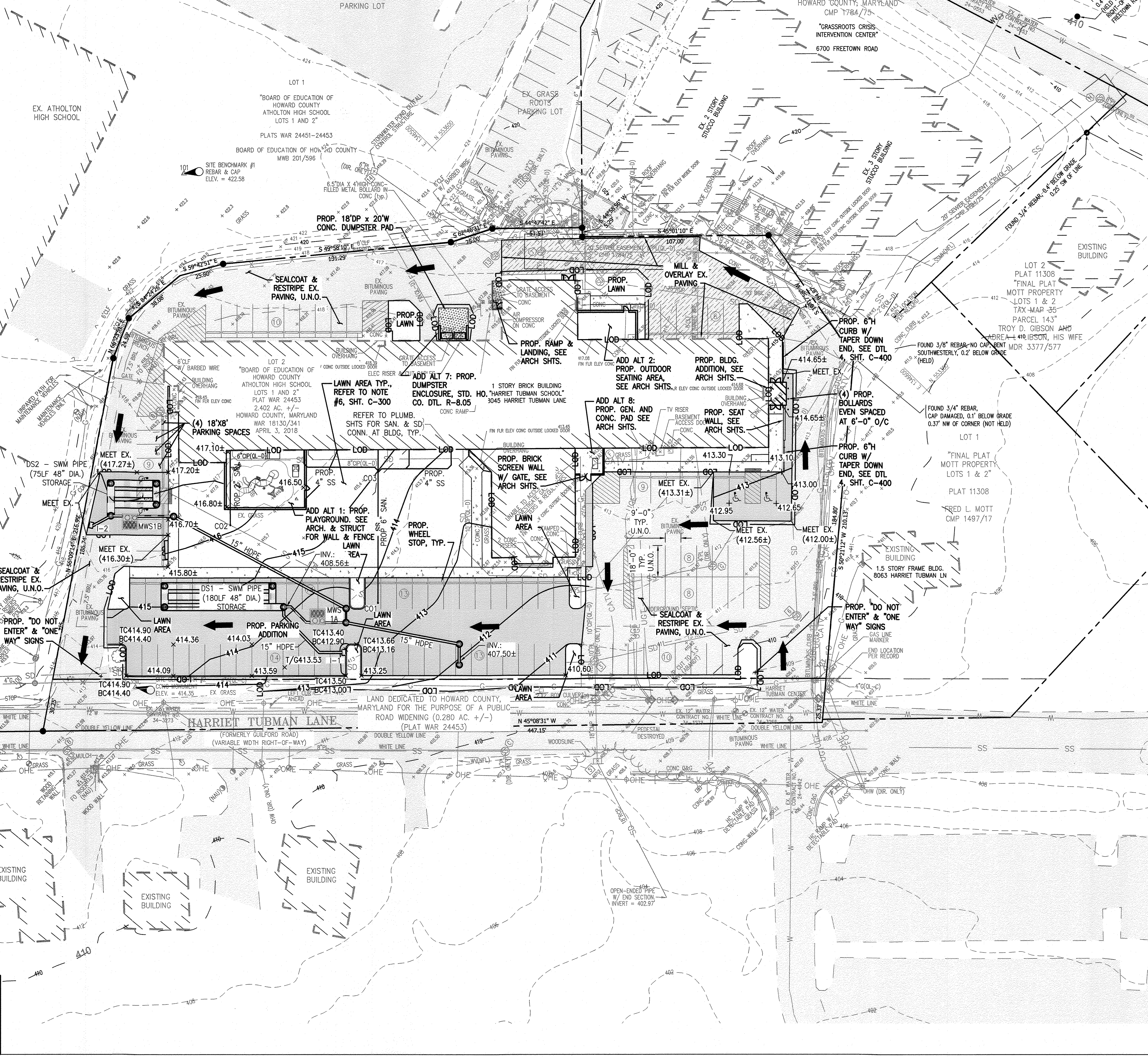
PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE No.: 14446 EXP. DATE: 5/25/21
PROJECT NO.: 18104
DRAWN BY: DWM
CHECKED BY: DWM
SHEET NAME:
EXISTING CONDITIONS PLAN
SHEET NO.
2

LEGEND

- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- EXISTING SETBACK
- EXISTING BUILDING
- 400 EXISTING MAJOR CONTOUR
- 401 EXISTING MINOR CONTOUR
- EXISTING CURB
- EXISTING CURB & GUTTER
- EXISTING ROADWAY
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- EXISTING CONCRETE PAVING
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- COND EXISTING UNDERGROUND CONDUIT
- UGE EXISTING DUCTBANK
- EXISTING COMM HANDBOLE
- COMM EXISTING COMMUNICATION
- CATV EXISTING CABLE TELEVISION
- FO EXISTING FIBER OPTIC
- FA EXISTING FIRE ALARM
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- EXISTING LIGHT POLE
- W EXISTING WATER LINE
- WM EXISTING WATER METER
- WW EXISTING WATER VALVE
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT

- PROPOSED BUILDING
- MWS PROPOSED BIODEGRADABLE MODULAR WETLANDS SYSTEM (SWM)
- PROPOSED CONCRETE WALK
- PROPOSED CONCRETE PAD
- PROPOSED ASPHALT PAVING
- PROPOSED MILL & OVERLAY

- EXISTING ASPHALT PAVING
- EXISTING CONCRETE PAVING
- EXISTING GRAVEL
- EXISTING FENCELINE
- EXISTING BOLLARD
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GENERAL NOTES:

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- UNDERGROUND UTILITIES MAY EXIST WITHIN THE WORK AREA. CONTRACTOR SHALL USE EXTREME CAUTION AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- INFORMATION SHOWN ON THIS DRAWING HAS BEEN PROVIDED AS A GUIDE TO ASSIST THE CONTRACTOR IN ESTABLISHING THE LOCATIONS OF PROPOSED CONSTRUCTION WITH RESPECT TO EXISTING SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL CONSTRUCTION SURVEY STAKEOUT REQUIRED AND TO FIELD VERIFY ALL GRADES, ELEVATIONS, DIMENSIONS, ETC. PRIOR TO STARTING CONSTRUCTION.

UTILITY DESIGNATION DESCRIPTION:

QUALITY LEVEL D (QI-D):
INCLUDES UTILITIES DESIGNATED THROUGH RECORD DOCUMENTS. THIS DATA COULD BE DIGITAL RECORDS, PAPER RECORDS, OR GIS DATA. THE AVAILABLE DATA COULD BE LIMITED AND NOT PRODUCE A COMPLETE PICTURE OF WHAT IS ONSITE. THE SOURCE OF SOME DATA MAY BE UNKNOWN, THE COMPLETENESS AND ACCURACY OF THE INFORMATION COULD BE COMPROMISED, HOWEVER, THE DATA COLLECTED IS SHOWN AND DESIGNATED SO AS TO REFLECT THE POTENTIAL FOR THE EXISTENCE OF UTILITIES.

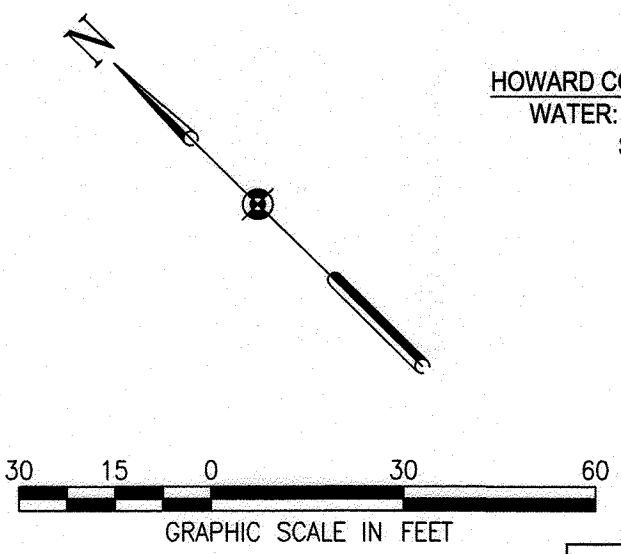
QUALITY LEVEL C (QI-C):
INCLUDES UTILITIES DESIGNATED THROUGH THE PROCESS OF SURVEYING THE VISIBLE UTILITY SURFACE FEATURES. THIS DATA IS COMPILED WITH THE QUALITY LEVEL D DATA TO PROVIDED AN INCREASED, LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE, QUALITY LEVEL D INFORMATION.

QUALITY LEVEL B (QI-B):
INCLUDES DESIGNATING THE UNDERGROUND UTILITIES BY MARKINGS PROVIDED THROUGH AN 811 CALL, BY CONTACTING AN INDIVIDUAL UTILITY COMPANY, OR PERFORMING TRACING OR GROUND PENETRATING RADAR. THE DESIGNATED UTILITY MARKINGS ARE THEN SURVEYED AND ADDED TO THE DRAWING. THIS DATA IS ADDED TO THE DATA COLLECTED FROM QUALITY LEVELS B AND C TO PROVIDE AN INCREASED LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE UTILITIES.

QUALITY LEVEL A (QI-A):
INVOLVES PHYSICALLY LOCATING THE ACTUAL UTILITY BY MEANS OF TEST PITTING OR OTHER METHODS OF EXPOSURE. ONCE THE UTILITY IS EXPOSED IT IS LOCATED HORIZONTALLY AND VERTICALLY BY SURVEY MEASUREMENTS.

SURVEY CONTROL TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
100	553552.00	1346115.84	415.45 REBAR & CAP
101	553590.88	1346389.45	422.58 REBAR & CAP
102	553347.92	1346598.24	413.99 REBAR & CAP
103	553229.75	1346445.86	408.87 REBAR & CAP

SOIL TYPE		
SYMBOL	DESCRIPTION	HSG
UuB	URBAN LAND-UDOTHTENTS COMPLEX	D



HOWARD COUNTY REFERENCE DRAWINGS:
 WATER: CONTRACT 34-3273, 24-3265
 SEWER: CMP 1784/75
 SDP-06-137
 SDP-01-116
 SDP-88-028

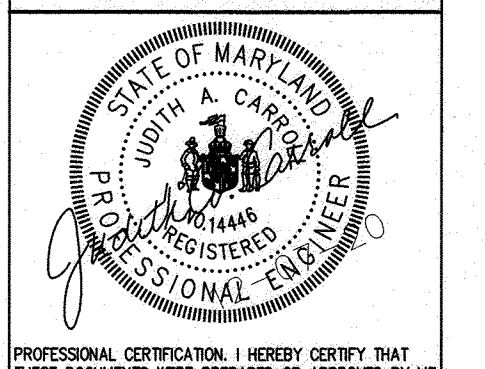
ADDRESS CHART	
USE	STREET ADDRESS
RECREATIONAL BUILDING	8045 HARRIET TUBMAN LANE

OWNER/DEVELOPER	SECTION/AREA	LOT/ PARCEL NO.
HOWARD COUNTY RECREATION AND PARKS CONTACT: MICHAEL KAMINETZ, 410-313-5781 8045 HARRIET TUBMAN LANE COLUMBIA, MD 21044	N/A	2/0292

AUDITORIUM RENOVATIONS
HARRIET TUBMAN BUILDING
 8045 HARRIET TUBMAN LANE, COLUMBIA MARYLAND

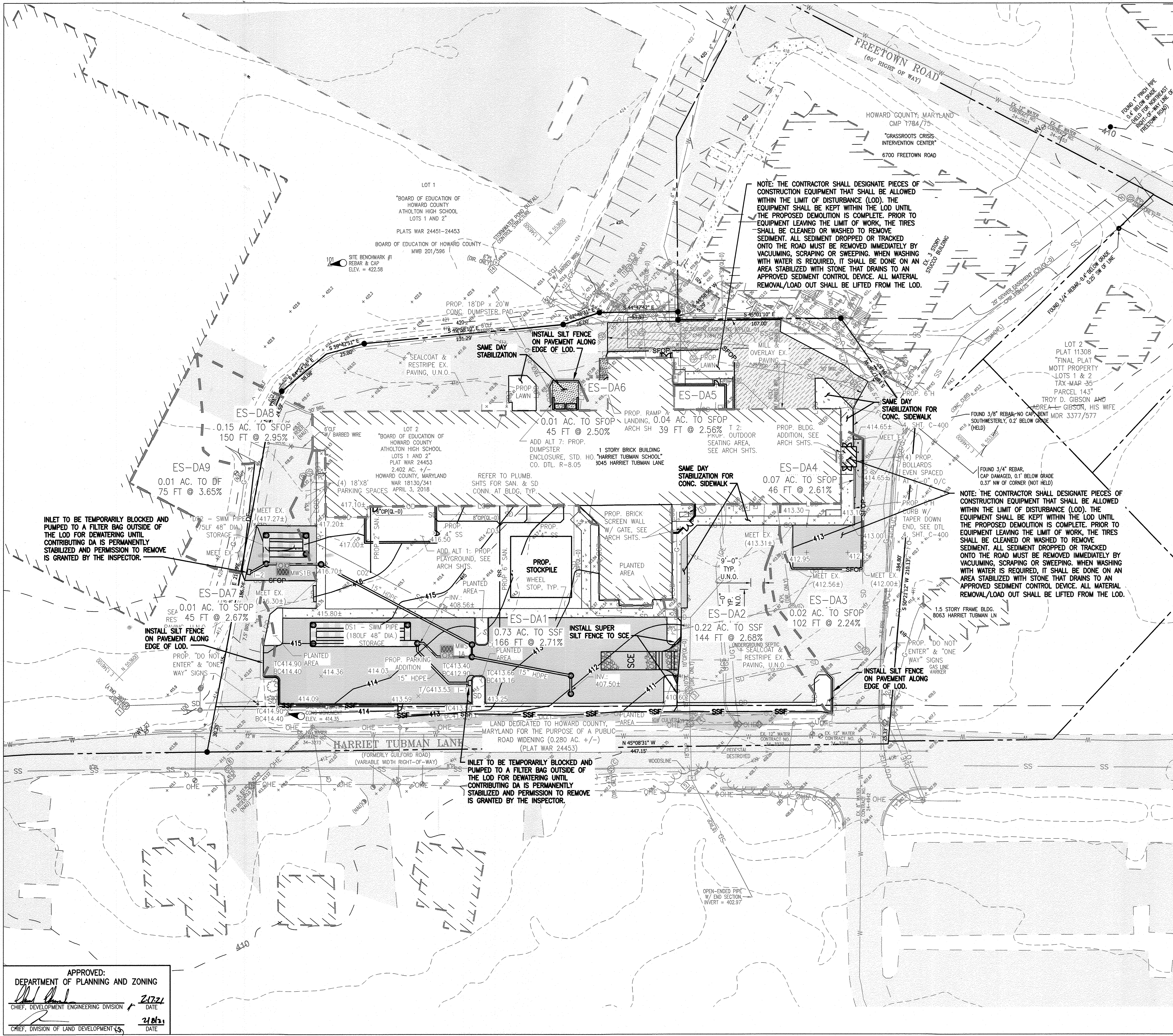
Murphy & Dittenhafer
 ARCHITECTS
 805 North Charles Street, Baltimore, Maryland 21201
 410-525-8525 voice 410-525-6074 fax
 228 West Market Street, York, Pennsylvania 17401
 717-663-3468 fax

Description	Date	Mark



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE No.: 14446 EXP. DATE: 5/25/21
PROJECT NO: 18104
DRAWN BY: DWM
CHECKED BY: DWM
ENVIRONMENTAL CONCEPT PLAN
 SHEET NO.
3

APPROVED:
 DEPARTMENT OF PLANNING AND ZONING
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 2/17/21
 [Signature]
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 2/18/21



- LEGEND**
- EXISTING PROPERTY LINE
 - EXISTING RIGHT-OF-WAY
 - - - EXISTING EASEMENT
 - - - EXISTING SETBACK
 - EXISTING BUILDING
 - 400 EXISTING MAJOR CONTOUR
 - 401 EXISTING MINOR CONTOUR
 - EXISTING CURB
 - EXISTING CURB & GUTTER
 - EXISTING ROADWAY
 - EXISTING PAVEMENT
 - [Hatched Box] EXISTING ASPHALT PAVING
 - [Dotted Box] EXISTING CONCRETE PAVING
 - [Cross-hatched Box] EXISTING GRAVEL
 - X EXISTING FENCELINE
 - EXISTING BOLLARD
 - ▲ EXISTING SIGN
 - EXISTING ELECTRIC HANDBOX
 - ⊖ EXISTING ELECTRIC MANHOLE
 - E EXISTING OVERHEAD ELECTRIC
 - UGE EXISTING UNDERGROUND ELECTRIC
 - COND EXISTING UNDERGROUND CONDUIT
 - UGE EXISTING DUCTBANK
 - EXISTING COMM HANDBOX
 - COMM EXISTING COMMUNICATION
 - EXISTING CABLE TELEVISION
 - FO EXISTING FIBER OPTIC
 - FA EXISTING FIRE ALARM
 - GV EXISTING GAS LINE
 - CV EXISTING GAS VALVE
 - SS EXISTING SANITARY LINE
 - SSFM EXISTING SANITARY FORCE MAIN
 - ⊖ EXISTING SANITARY MANHOLE
 - ⊖ EXISTING SANITARY CLEANOUT
 - ST EXISTING STEAM LINE
 - EXISTING STORMDRAIN LINE
 - EXISTING STORMDRAIN INLET
 - ⊖ EXISTING STORMDRAIN MANHOLE
 - ⊖ EXISTING STORMDRAIN CLEANOUT
 - UGT EXISTING TELEPHONE
 - ⊖ EXISTING TELEPHONE MANHOLE
 - ⊖ EXISTING TELEPHONE PEDESTAL
 - EXISTING UTILITY POLE
 - EXISTING LIGHT POLE
 - EXISTING WATER LINE
 - WM EXISTING WATER METER
 - WM EXISTING WATER VALVE
 - ⊖ EXISTING WATER MANHOLE
 - ⊖ EXISTING FIRE HYDRANT
 - [Hatched Box] PROPOSED BUILDING
 - [Dotted Box] PROPOSED BIOCLEAN MODULAR WETLANDS SYSTEM (SWM)
 - [Hatched Box] PROPOSED CONCRETE WALK
 - [Dotted Box] PROPOSED CONCRETE PAD
 - [Hatched Box] PROPOSED ASPHALT PAVING
 - [Hatched Box] PROPOSED MILL & OVERLAY
 - DF DIVERSION FENCE
 - LOD LIMIT OF DISTURBANCE
 - SSF SUPER SILT FENCE
 - SFOP SILT FENCE ON PAVEMENT
 - DA DRAINAGE AREA DELINEATION
 - [Symbol] STABILIZED CONSTRUCTION ENTRANCE

AUDITORIUM RENOVATIONS HARRIET TUBMAN BUILDING

8045 HARRIET TUBMAN LANE, COLUMBIA MARYLAND

Murphy & Dittenhafer

A R C H I T E C T S

238 West Market Street, York, Pennsylvania 17401
410-362-8622 voice 410-362-3488 fax

800 North Chimes Street, Baltimore, Maryland 21201
410-525-6625 voice 410-525-6674 fax

Description	Date	Mark



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No.: 14446 EXP. DATE: 5/25/21

PROJECT NO.: 18104

DRAWN BY: DWM

CHECKED BY: DWM

SHEET NAME: ECP EROSION & SEDIMENT CONTROL PLAN

SHEET NO.: 4

ECP-20-052

APPROVED:
DEPARTMENT OF PLANNING AND ZONING

[Signature] 2/27/21
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 2/18/21
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

ADDRESS CHART

USE	STREET ADDRESS
RECREATIONAL BUILDING	8045 HARRIET TUBMAN LANE

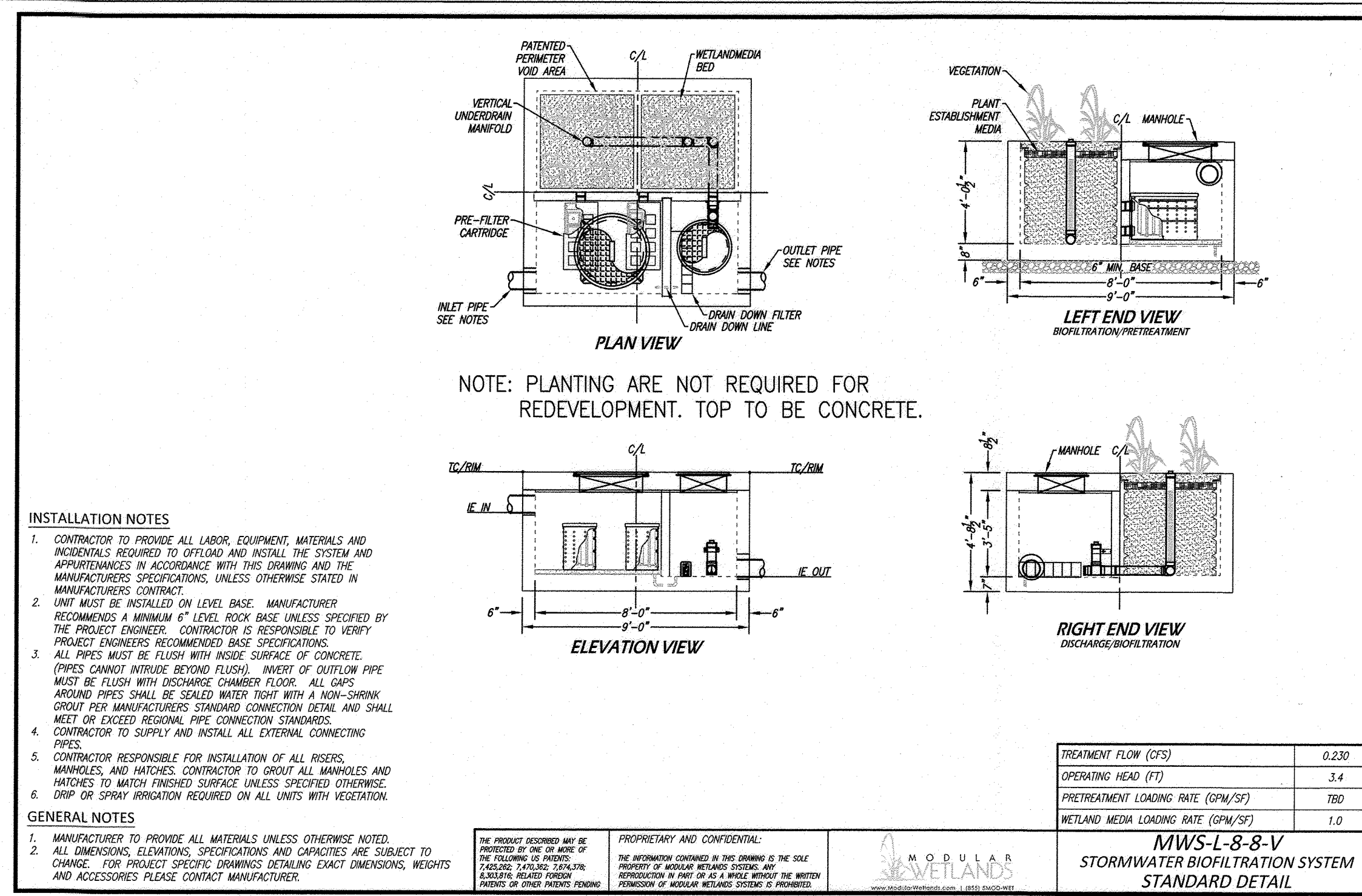
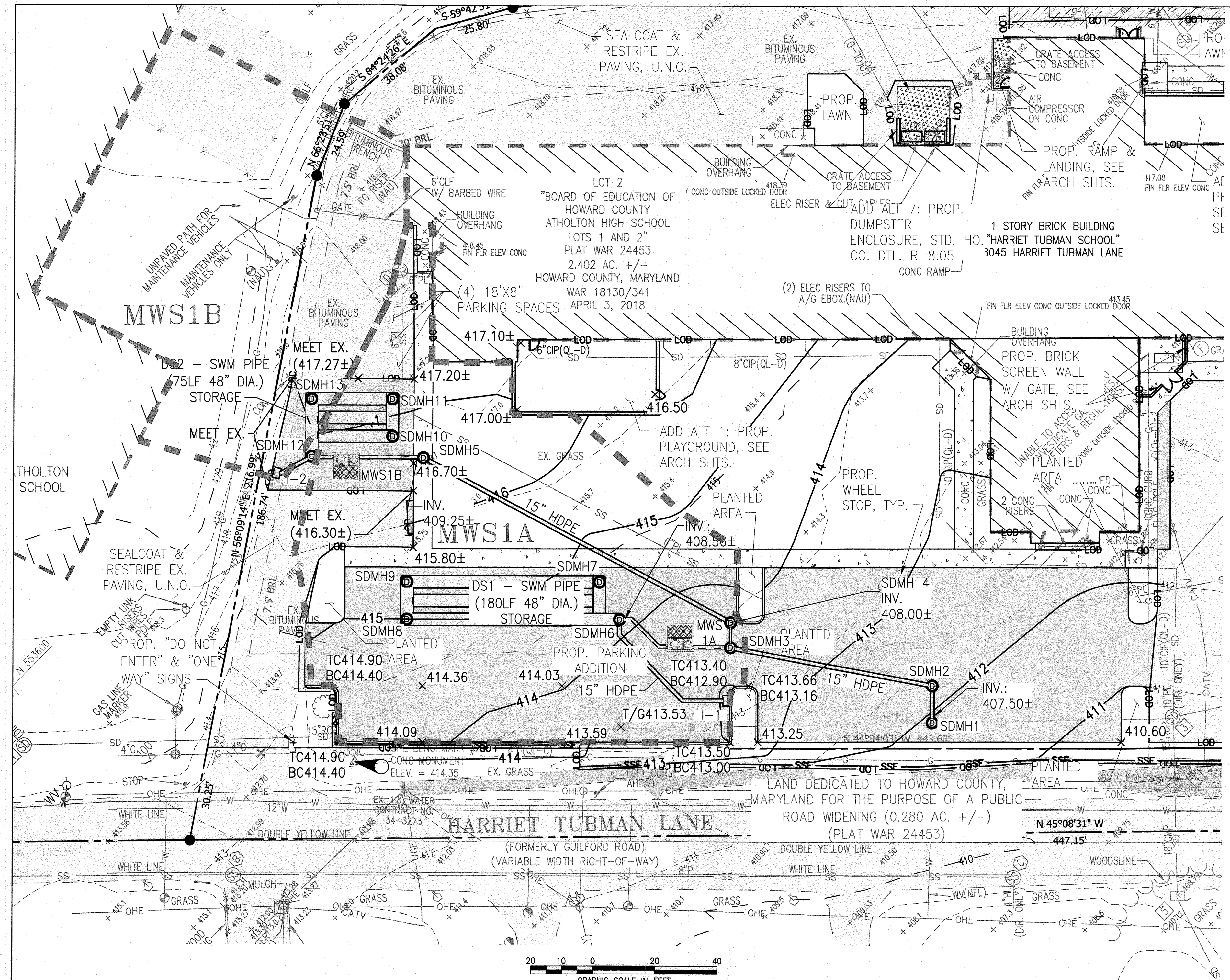
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NO.
ATHOLTON HIGH SCHOOL	N/A	2/0292
24451-53	0024	R-SC 2005
		4th E.D.

OWNER/DEVELOPER
HOWARD COUNTY RECREATION AND PARKS
CONTACT: MICHAEL KAMINETZ, 410-313-5781
8045 HARRIET TUBMAN LANE
COLUMBIA, MD 21044

AUDITORIUM RENOVATIONS
HARRIET TUBMAN BUILDING
8045 HARRIET TUBMAN LANE, COLUMBIA MARYLAND

Murphy & Dittenhafer
ARCHITECTS

228 West Market Street, York, Pennsylvania 17401
800 North Charles Street, Baltimore, Maryland 21201
410-625-4833 voice 410-625-4874 fax



GENERAL NOTES

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OUTFIELD AND INSTALL THE SYSTEM AND APPOINTMENTS IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
- UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL CAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARDS CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL ROSES, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE. DIRT OR STORM IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.

LEGEND

- EXISTING PROPERTY LINE
- - - EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- EXISTING SETBACK
- EXISTING BUILDING
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- EXISTING CURB
- EXISTING CURB & GUTTER
- EXISTING ROADWAY
- EXISTING PAVEMENT
- EXISTING ASPHALT PAVING
- EXISTING CONCRETE PAVING
- EXISTING GRAVEL
- x EXISTING FENCELINE
- o EXISTING BOLLARD
- ▲ EXISTING SIGN
- EXISTING ELECTRIC HANDBOX
- EXISTING ELECTRIC MANHOLE
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- COND- EXISTING UNDERGROUND CONDUIT
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- SS- EXISTING SANITARY LINE
- SSFM- EXISTING SANITARY FORCE MAIN
- EXISTING SANITARY MANHOLE
- o EXISTING SANITARY CLEANOUT
- ST- EXISTING STEAM LINE
- EXISTING STORMDRAIN LINE
- EXISTING STORMDRAIN INLET
- EXISTING STORMDRAIN MANHOLE
- o EXISTING STORMDRAIN CLEANOUT
- UGT- EXISTING TELEPHONE
- EXISTING TELEPHONE MANHOLE
- EXISTING TELEPHONE PEDESTAL
- o EXISTING UTILITY POLE
- o EXISTING LIGHT POLE
- EXISTING WATER LINE
- WM○ EXISTING WATER METER
- WV○ EXISTING WATER VALVE
- ⊕ EXISTING WATER MANHOLE
- o EXISTING FIRE HYDRANT
- PROPOSED CONCRETE WALK
- PROPOSED ASPHALT PAVING
- STORMWATER MANAGEMENT DRAINAGE AREA

ADDRESS CHART

USE	STREET ADDRESS
RECREATIONAL BUILDING	8045 HARRIET TUBMAN LANE

OWNER/DEVELOPER
HOWARD COUNTY RECREATION AND PARKS
CONTACT: MICHAEL KAMINETZ, 410-313-5781
8045 HARRIET TUBMAN LANE
COLUMBIA, MD 21044

	DRAINAGE AREA	PERVIOUS AREA	IMPERVIOUS	ES v REQUIRED	ES v PROVIDED
MWS1A, MODULAR WETLANDS SYSTEM #1A	14561 SQ. FT.	10894 SQ. FT.	3667 SQ. FT.	886 cu. ft. (75% = 664 cu. ft.)	1187 cu. ft.
MWS1B, MODULAR WETLANDS SYSTEM #1B	10559 SQ. FT.	3830 SQ. FT.	6729 SQ. FT.	334 cu. ft. (75% = 251 cu. ft.)	651 cu. ft.

Drainage Area #1 (DA-1) to Study Point 1 (SP-1)	Drainage Area #2 (DA-2) to Study Point 2 (SP-2)
Total Area = 89,470 s.f. LOD Area = 32,846 s.f.	Total Area = 75,036 s.f. LOD Area = 6,454 s.f.
Existing Condition Impervious Area = 16,017 s.f.	Existing Condition Impervious Area = 6,312 s.f.
Proposed Condition Impervious Area = 20,308 s.f.	Proposed Condition Impervious Area = 4,144 s.f.
Proposed Condition Pervious Area = 12,538 s.f.	Proposed Condition Pervious Area = 2,310 s.f.
New Impervious Area = 8,736 s.f.	New Impervious Area = 25 s.f.
Reconstructed Existing Impervious Area = 11,572 s.f.	Reconstructed Existing Impervious Area = 4,119 s.f.
Existing Impervious Area Removed = 4,445 s.f.	Existing Impervious Area Removed = 2,193 s.f.
Existing Pervious Area to Remain = 8,093 s.f.	Existing Pervious Area to Remain = 117 s.f.
(0.5)(Ex. Cond Imp)+(Prop. Cond Imp - Ex. Cond Imp) = 12,300 s.f.	(0.5)(Ex. Cond Imp)+(Prop. Cond Imp - Ex. Cond Imp) = 988 s.f.

APPROVED:
DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 7/21/21
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 7/21/21

Description	Date	Mark



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NO.
ATHOLTON HIGH SCHOOL	N/A	17028

OWNER/DEVELOPER
HOWARD COUNTY RECREATION AND PARKS
CONTACT: MICHAEL KAMINETZ, 410-313-5781
8045 HARRIET TUBMAN LANE
COLUMBIA, MD 21044

PROJECT NO: 18104
DRAWN BY: DWM
CHECKED BY: DWM

SHEET NAME:
ECP STORMWATER MANAGEMENT PLAN

SHEET NO:
5