

NARRATIVE

THE BUILDING 28 SITE WILL INCLUDE AN APPROXIMATELY 400,000 GSF BUILDING WITH ASSOCIATED PARKING SPACES, LOADING DOCKS, AND A SOUTH GREEN PARK AREA, WITH A SEPARATE PARKING LOT TO THE WEST. THE EXISTING BUILDING 28 SITE DRAINS TOWARD EXISTING BASIN B AND BASIN C ON THE JHU/APL CAMPUS. THIS PROJECT IS LOCATED WITHIN THE PATUXENT RIVER WATERSHED. NEITHER FOREST CONSERVATION EASEMENTS NOR FLOODPLAINS EXIST WITHIN THE PROJECT LIMITS.

TO ACHIEVE STORMWATER MANAGEMENT REQUIREMENTS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) AND HOWARD COUNTY, THE USE OF ENVIRONMENTAL SITE DESIGN (ESD) TO THE MAXIMUM EXTENT PRACTICABLE (MEP) WILL BE IMPLEMENTED, WHICH WILL RETURN THE POST-DEVELOPMENT PROJECT SITE TO THE HYDROLOGIC CHARACTERISTICS OF WOODS IN GOOD CONDITION.

STORMWATER MANAGEMENT REQUIREMENTS WILL BE ACHIEVED WITH FIVE MICRO-BIORETENTION FACILITIES, TEN FOCAL POINT FACILITIES, AND NINE PERMEABLE PAVEMENT AREAS. REQUIRED GROUNDWATER RECHARGE VOLUMES (R_g) STORAGE WILL BE PROVIDED IN STONE RESERVOIRS LOCATED BENEATH THE MICRO-BIORETENTION AND PERMEABLE PAVEMENT FACILITIES. QUANTITY CONTROL REQUIREMENTS ARE MET THROUGH EXISTING BASIN B AND BASIN C ON CAMPUS, AND SUPPLEMENTED WITH PROPOSED R-TANK SYSTEMS AND UNDERGROUND DETENTION VAULTS TO PROVIDE ADDITIONAL QUANTITY CONTROL CAPACITY TO PREVENT EXISTING BASINS FROM EXCEEDING EXISTING AND/OR ULTIMATE FLOWRATES. THROUGH THE USE OF THESE STORMWATER MANAGEMENT QUALITY CONTROL AND QUANTITY CONTROL ESD DEVICES, ESD TO THE MEP IS ACHIEVED.

PURPOSE STATEMENT

THE PURPOSE OF THESE PLANS IS TO PROVIDE INFORMATION ON EXISTING SITE CONDITIONS AND PROPOSED IMPROVEMENTS FOR A 400,000 GSF BUILDING AND A 263-SPACE PARKING LOT.

GENERAL NOTES

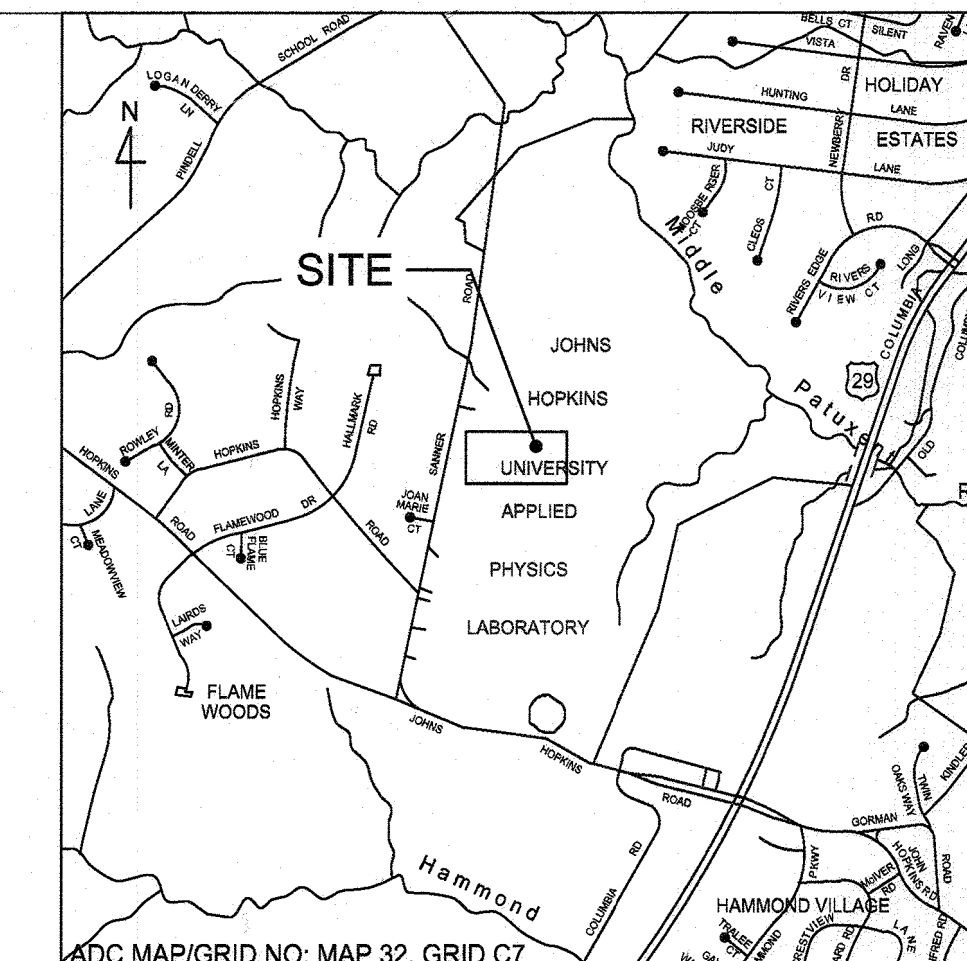
- THE SUBJECT PROPERTY ZONED PEC (PLANNED EMPLOYMENT CENTER) PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- COORDINATES, BEARINGS AND DISTANCES SHOWN HEREON ARE REFERRED TO THE MARYLAND COORDINATE SYSTEM (NAD83/2011). ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NAVD83 DATUM.
- TOPOGRAPHIC AND SURFACE INFORMATION SHOWN WAS OBTAINED FROM FIELD SURVEY BY RK&K, COMPLETED DECEMBER 23, 2021. UTILITY INFORMATION SHOWN WAS PROVIDED BY AJJDATA ON FEBRUARY 4, 2022.
- NO CEMETERIES EXIST ON THIS SITE BASED ON A SITE VISIT AND ON AN EXAMINATION OF THE HOWARD COUNTY CEMETERY INVENTORY MAP.
- NO HISTORIC STRUCTURES EXIST ON THE SUBJECT PROPERTY.
- THERE ARE NO EXISTING DWELLINGS ON THIS SITE.
- PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS:
SDP-04-78: SERVICES AREA COMPLEX
F-02-40: SWM BASIN 'A', APFO, FOREST CONSERVATION
SDP-04-133: BASIN 'C' SWM FACILITIES AND LAYDOWN AREA
SDP-05-042: JHU/LIBRARIES SERVICES CENTER (FOREST CONSERVATION & WETLANDS UPDATES)
SDP-03-043: SANNER ROAD IMPROVEMENTS (NEW APFO NUMBER: 4,600)
F-04-188: FOREST CONSERVATION EASEMENTS RE-PLAT
F-07-035: FOREST CONSERVATION, RE-PLAT EASEMENT
SDP-08-084: SERVICES AND SUPPORT AREA INFRASTRUCTURE FACILITY PHASE I
F-02-077: FINAL PLAN STORMWATER MANAGEMENT FACILITIES DRAINAGE AREA B AS-BUILT
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- THE PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- EXISTING WATER WITHIN THE PROPERTY BOUNDARIES IS PRIVATE. EXISTING SEWER WITHIN THE PROPERTY BOUNDARIES IS PRIVATE.
- SOILS INFORMATION TAKEN FROM NRCS WEB SOIL SURVEY DATED AUGUST 10, 2022.
- STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH THE 2010 MDE, CHAPTER 5 REGULATIONS (ESD TO MEP) AND THE LATEST HOWARD COUNTY DESIGN MANUAL, VOL. 1, CHAPTER 8, ADOPTED ON OR ABOUT OCTOBER 7, 2019. RECHARGE VOLUME WILL BE PROVIDED THROUGH THE USE OF A STONE RESERVOIRS. STORMWATER MANAGEMENT FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED BY JOHNS HOPKINS UNIVERSITY.
- THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY F-02-40, F-04-188, AND F-07-035. FOREST CONSERVATION OBLIGATION WAS FULFILLED UNDER F-04-188 AND F-07-035.
- HEALTH DEPARTMENT APPROVAL OF THIS DEVELOPMENT PLAN DOES NOT ENSURE APPROVAL OF BUILDING PERMIT APPLICATIONS ASSOCIATED WITH THIS PLAN. PLANS FOR CERTAIN FACILITIES TO BE CONSTRUCTED WITHIN THE LIMITS DESCRIBED BY THIS PLAN WILL REQUIRE REVIEW AND APPROVAL BY THE HEALTH DEPARTMENT. SUCH FACILITIES MAY INCLUDE, BUT ARE NOT LIMITED TO, THOSE WHICH HAVE SWIMMING POOLS, OR THAT SELL PREPARED OR PACKAGED FOODS, OR THAT MAY HAVE EQUIPMENT THAT EMITS RADIATION.
- TRAFFIC CONTROL DEVICES:
a) THE R1-1 ("STOP") SIGN AND THE STREET NAME SIGN (SNS) ASSEMBLY FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING IS COMPLETE.
b) THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES.
c) ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
d) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED ("QUICK PUNCH"), SQUARE TUBE POST (1/4 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.
- NO WORK IS PROPOSED IN THE COUNTY RIGHT-OF-WAY. ALL PROPOSED WORK IS INTERIOR TO THE SITE.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURES AND POLES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (2006), SECTION 5.5.A. A MINIMUM OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
- TWENTY-THREE (23) ESD PRACTICES SHALL BE USED TO ADDRESS THE SITE P_e AND ESD_v.
- THE USE OF RC-6 FOR AGGREGATE BASE MATERIAL SHALL BE APPROVED BY THE GEO-TECHNICAL ENGINEER.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MD-SHA 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 (5) WORKING DAYS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THERE ARE NO FLOODPLAIN, WETLANDS, OR STREAMS ON SITE.
- STEEP SLOPES (GREATER THAN 15%) EXIST ON SITE. SEE SITE ANALYSIS DATA SHEET.
- TRASH PICK UP WILL BE PRIVATELY MAINTAINED.
- NO OFF-SITE ACTIVITIES ARE PROPOSED FOR THIS PROJECT.
- THE SITE IS NOT IN THE AIRPORT ZONE.
- THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
- ALL GRADING AND EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT AND INSPECTED BY A GEOTECHNICAL ENGINEER.
- CONSTRUCTION OF SUBGRADE, UNDERDRAINS, AND PAVING SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- EXISTING UTILITIES WHICH ARE NOT TO BE REMOVED OR ABANDONED SHALL REMAIN OPERATIONAL AT ALL TIMES. APPROPRIATE EXISTING UTILITIES SHALL REMAIN IN SERVICE UNTIL REPLACEMENT/RELOCATED UTILITIES ARE OPERATIONAL.
- ALL DISTURBED AREAS NOT STABILIZED WITH STRUCTURES, PAVING, AND/OR PLANTINGS SHALL BE STABILIZED WITH FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATERED TO ESTABLISH AN ADEQUATE GROWTH OF GRASS AS SPECIFIED ON THE EROSION AND SEDIMENT CONTROL PLANS.
- NUMERICAL DIMENSIONS AND ELEVATIONS SHOWN SHALL SUPERSEDE ANY DISCREPANCY IN THE SCALING ON THE DRAWINGS.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL EXISTING AND PROPOSED BUILDING ENTRANCES DURING ALL PHASES OF CONSTRUCTION, UNLESS OTHERWISE NOTED IN THESE DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER IF EXISTING OR PROPOSED CONDITIONS RESTRICT ABILITY TO ACHIEVE POSITIVE DRAINAGE FROM BUILDINGS PRIOR TO THE START OF CONSTRUCTION.
- PERIMETER LANDSCAPING IS NOT REQUIRED WITH THIS SDP BECAUSE THE PROPOSED BUILDING IS LOCATED INTERNAL TO THE SITE.
- NO WAIVERS OR ALTERNATIVE COMPLIANCE ARE REQUESTED.
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN, SITE DEVELOPMENT PLAN, OR GRADING OR BUILDING PERMIT PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION, SITE DEVELOPMENT PLAN, OR GRADING AND BUILDING PERMIT STAGES. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY BUILDING 28



GEODETIC CONTROL

0002: N 544836.502 E 1340825.389 NGVD ELEV. 444.479
41CA: N550124.832 E 1342296.880 NGVD ELEV. 295.393



VICINITY MAP
SCALE: 1"=2000'

SHEET INDEX

PAGE NUMBER	SHEET NUMBER	SHEET NAME
1	C-001	ECP COVER SHEET
2	C-002	KEY SHEET
3	C-003	TABLES & LEGEND
4 - 11	C-101 - C-108	CONCEPT PLAN
12 - 14	C-600A - C-600C	EROSION AND SEDIMENT CONTROL CONCEPT

SITE ANALYSIS DATA SHEET

ENVIRONMENTAL AREAS	TOTAL PROJECT AREA	SITE AREAS
WETLANDS / BUFFERS	NONE	TOTAL PROJECT AREA 357,976 acres
FLOODPLAIN / BUFFERS	NONE	LOD AREA 9.16 acres
FORESTS	NONE	PROPOSED SITE USE OFFICE & LAB SPACE
STEEP SLOPES	0.75 acres	GREEN OPEN AREA 2.37 acres
ERODIBLE SOILS	0.75 acres	IMPERVIOUS AREA 6.79 acres

NOTE: INFORMATION IS FOR WORK IN THE PROPOSED LOD ONLY. HIGHLY ERODIBLE SOILS CRITERIA ARE: SLOPE > 15% OR K-FACTOR = Kw-FACTOR > 0.35 WITH SLOPES > 5%.

SITE ANALYSIS DATA CHART

TOTAL PROJECT AREA: 357,976 AC.
AREA OF PLAN SUBMISSION: 9.48 AC.
LIMIT OF DISTURBANCE: 9.48 AC.
PRESENT ZONING: PEC
PROPOSED USE: OFFICE & LAB SPACE
EXISTING NUMBER OF JHU/APL EMPLOYEES: 4,600
EXISTING MAXIMUM NUMBER OF PARKING SPACES REQUIRED BY ZONING: 2,850 (SDP-05-133)
EXISTING ONSITE PARKING SPACES: 4,799 (SDP 05-133)
PROPOSED ONSITE PARKING SPACES: 5,081

CASE NUMBERS APPLICABLE:
F-04-188, SDP-04-133, F-078-035

SANITARY SEWER / WATER SERVICE:
PRIVATE ONSITE SYSTEM, PUBLIC CONNECTION

EXISTING TOTAL BUILDING COVERAGE:
26.57 ACRES (7.1%)

PROPOSED BUILDING COVERAGE:
2.3 ACRES (101,000 SF)

TOTAL PROPOSED BUILDING COVERAGE:
27.87 ACRES (7.8%)

NO FLOODPLAINS OR FOREST CONSERVATION EASEMENTS PRESENT WITHIN THE LIMITS OF DISTURBANCE.

EXISTING OPEN SPACE AREA: 278.89 ACRES (77.9% OF TOTAL LOT AREA)
PROPOSED OPEN SPACE AREA: 274.61 ACRES (76.7% OF TOTAL LOT AREA)

NATURAL STEEP SLOPES (>15%) = 0.75 ACRES
HIGHLY ERODIBLE SOILS = 0.75 ACRES

ESD SUMMARY TABLE

Facility ID	Facility Type	Drainage Area (SF)	Impervious Area (SF)	ESDv Required (CF)	ESDv Provided (CF)	IART (SF)	IAT (SF)	Rev Target (CF)	Rev Provided (CF)	P _t Target (IN)	P _t Provided (IN)
MB-1	Micro-Bio-retention	12,611	10,732		1,715		10,732		25	2.0	
MB-2	Micro-Bio-retention	17,481	16,428		1,758		16,428		66	1.3	
MB-3	Micro-Bio-retention	23,133	16,915		1,577		16,915		46	1.2	
MB-4	Micro-Bio-retention	20,167	17,099		2,778		17,099		40	2.0	
MB-5	Micro-Bio-retention	6,958	3,942		584		3,942		14	2.0	
PP-1	Permeable Pavement	11,843	11,843		1,219		11,843		521	1.8	
PP-2	Permeable Pavement	6,241	6,083		627		6,083		317	1.8	
PP-3	Permeable Pavement	2,668	2,581		266		2,581		78	1.8	
PP-4	Permeable Pavement	1,853	1,648		171		1,648		52	1.8	
PP-5	Permeable Pavement	4,140	4,140		426		4,140		368	1.8	
PP-6	Permeable Pavement	7,562	6,883		712		6,883		425	1.8	
PP-7	Permeable Pavement	8,562	7,257	19,909	754	245,923	7,257	1,658	425	1.8	
PP-8	Permeable Pavement	6,843	6,271		648		6,271		486	1.8	
PP-9	Permeable Pavement	6,944	6,672		688		6,672		365	1.8	
FP-1	Focal Point	19,293	19,293		1,986		19,293		-	1.8	
FP-2	Focal Point	20,000	20,000		2,058		20,000		-	1.8	
FP-3	Focal Point	20,000	20,000		2,058		20,000		-	1.8	
FP-4	Focal Point	20,000	20,000		2,058		20,000		-	1.8	
FP-5	Focal Point	20,000	20,000		2,058		20,000		-	1.8	
FP-6	Focal Point	16,662	4,106		491		4,106		-	1.8	
FP-7	Focal Point	21,374	11,436		1,231		11,436		-	1.8	
FP-8	Focal Point	35,856	4,784		661		4,784		-	1.8	
FP-9	Focal Point	12,081	2,529		312		2,529		-	1.8	
FP-10	Focal Point	11,660	5,336		583		5,336		-	1.3	
TOTAL		333,932	245,978	19,909	27,421	245,923	245,978	1,658	3,228	1.8	1.38*

* REMAINING TREATMENT PROVIDED BY REGIONAL STORMWATER FACILITIES IN BASIN B AND BASIN C.

ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
1/123	11100 JOHNS HOPKINS ROAD

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NO	
N/A	N/A	1/123	
PLAT # or L/F	GRID #	ZONING	TAX MAP NO.
16969	18	PEC	41
			ELECT DISTRICT
			5
			CENSUS TRACT
			805102
WATER CODE	SEWER CODE		
E21	6480000		

DESIGN BY: EKW/ECM			
DRAWN BY: EKW/ECM			
CHECKED BY: KDE			
DATE: 02/10/2023	BY	NO.	REVISION
			DATE

OWNER / DEVELOPER:
APL
JOHNS HOPKINS
APPLIED PHYSICS LABORATORY
11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-0099
CONTACT: NICHOLAS LASWELL, PE PHONE: 240-592-2014

ECP COVER SHEET
JOHNS HOPKINS UNIVERSITY
APPLIED PHYSICS LABORATORY
BUILDING 28
11100 JOHNS HOPKINS ROAD
TAX MAP: 41 PARCEL: 123 GRID: 18 ZONED: PEC
ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
ECP-23-022 SHEET 1 OF 14

RK&K PROJECT NUMBER
21243
SCALE:
As Shown

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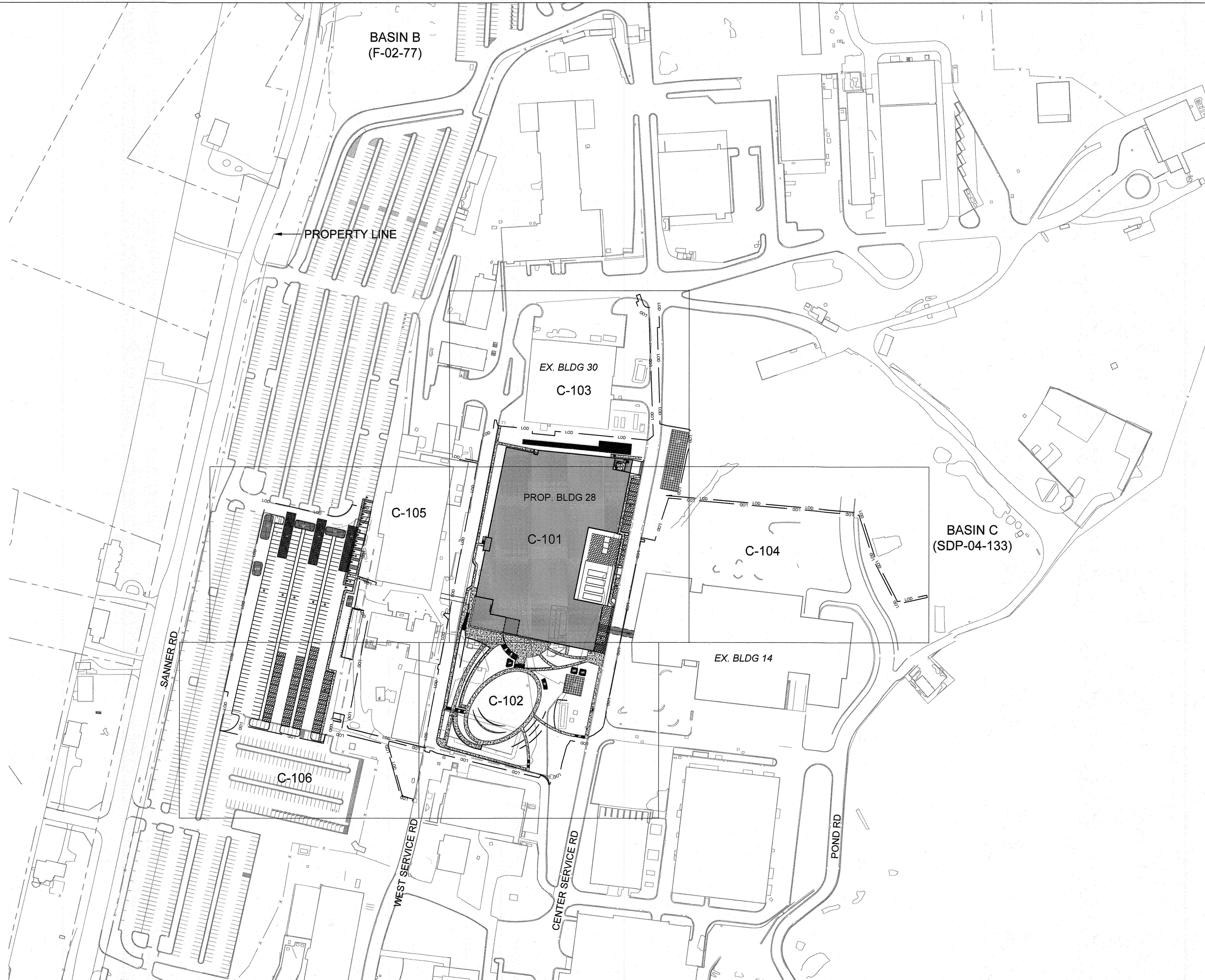
APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division
Date: 2/10/23

Chief, Division of Land Development
Date: 2/10/23

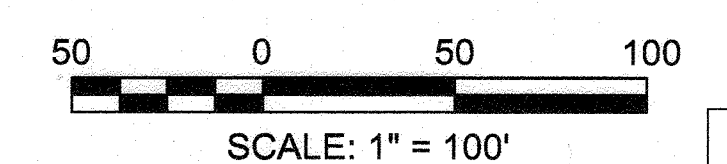
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700 E. Pratt Street, Suite 500 | Baltimore, MD 21202
Engineers | Construction Managers | Planners | Scientists
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PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 49432, EXPIRATION DATE: 05/31/24



ACRONYMS AND ABBREVIATIONS

BLDG	BUILDING
CONC.	CONCRETE
D.O.	DIRECTION ONLY
DATR	DRAWN ACCORDING TO RECORD
DIP	DUCTILE IRON PIPE
EMH	ELECTRIC MANHOLE
F.F. ELEV	FIRST FLOOR ELEVATION
G	GAS
MR	MICRO-BIORETENTION
NAU	NO ASSOCIATED UTILITY
NFL	NOT FIELD LOCATABLE
PP	PERMEABLE PAVEMENT
QLC	QUALITY LEVEL C
QLD	QUALITY LEVEL D
RT	R-TANK
W	WATER



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 DATE STAMP: 8/1/2023 10:26 AM

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *PS* *5/3/23*
 Date

Chief, Division of Land Development *AL* *5/2/23*
 Date

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PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 48432, EXPIRATION DATE: 09/31/24

DESIGN BY:	EKW/ECM		
DRAWN BY:	EKW/ECM		
CHECKED BY:	KDE		
DATE:	02/10/2023	BY	NO.
		REVISION	DATE

OWNER / DEVELOPER:

APL **JOHNS HOPKINS**
APPLIED PHYSICS LABORATORY
 11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-6099
 CONTACT: NICHOLAS LASWELL, PE PHONE: 240-692-2014

CIVIL KEY SHEET
 JOHNS HOPKINS UNIVERSITY
 APPLIED PHYSICS LABORATORY
BUILDING 28
 11100 JOHNS HOPKINS ROAD
 TAX MAP: 41 PARCEL: 925 GRID: 16 ZONED: PEC
 ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
 ECP-23-022 SHEET 2 OF 14

C-002
 RK&K PROJECT NUMBER 21243
 SCALE: As Shown

Existing Storm Drain Structure Table				
No.	Description	Elevation		Notes
1	Inlet	Top	410.90'	
	12" RCP	Invert	408.82'	N
2	Inlet	Top	407.48'	
	18" RCP	Invert	395.69'	S
	12" RCP	Invert	399.72'	E
3	Inlet	Top	407.08'	
	18" RCP	Invert	396.42'	E
	24" RCP	Invert	396.26'	N
4	Inlet	Top	407.05'	
	15" RCP	Invert	397.43'	N
	18" RCP	Invert	397.24'	W
5	Inlet	Top	405.44'	
	15" RCP	Invert	397.76'	S
6	Inlet	Top	401.69'	
	12" RCP	Invert	397.45'	E
7	Inlet	Top	401.54'	
	15" RCP	Invert	395.75'	N
	12" RCP	Invert	397.15'	W
8	Inlet	Top	399.43'	
	15" RCP	Invert	393.59'	N
	18" RCP	Invert	393.72'	W
9	Inlet	Top	399.42'	
	18" RCP	Invert	395.04'	S
	18" RCP	Invert	395.00'	E
10	Inlet	Top	399.37'	
	18" RCP	Invert	395.53'	N
11	Manhole	Unknown		
12	Inlet	Top	399.43'	
	15" RCP	Invert	394.01'	N
	8" PVC	Invert	395.27'	E
	15" RCP	Invert	393.82'	S
13	Inlet	Unknown		
14	Manhole	Top	394.80'	
	24" PVC	Invert	388.87'	
15	Manhole	Top	396.56'	
	Manhole	Top	393.25'	
16	Manhole	Top	400.17'	
	Inlet	Top	400.83'	
	15" RCP	Invert	396.62'	S
	12" RCP	Invert	396.83'	W
17	Manhole	Top	396.50'	
	15" RCP	Invert	396.50'	N
18	Inlet	Top	400.77'	
	12" RCP	Invert	396.57'	E
	12" RCP	Invert	396.57'	E
19	Inlet	Top	404.34'	
	15" RCP	Invert	400.34'	S
	12" RCP	Invert	400.34'	W
	15" RCP	Invert	400.07'	N
20	Inlet	Top	404.36'	
	12" RCP	Invert	401.65'	E

22	Inlet	Top	408.36'	
	12" RCP	Invert	404.04'	W
	15" RCP	Invert	403.54'	N
23	Inlet	Top	408.26'	
	12" RCP	Invert	403.49'	E
24	Inlet	Top	406.15'	
	18" RCP	Invert	400.31'	E
25	Inlet	Top	406.16'	
	12" RCP	Invert	400.11'	E
	18" RCP	Invert	399.93'	W
26	Inlet	Top	404.61'	
	12" RCP	Invert	400.13'	E
27	Manhole	Top	401.18'	Full of sediment, cannot get inverts.
28	Manhole	Top	388.07'	
29	Manhole	Top	388.64'	
30	Inlet	Top	381.80'	
31	Inlet	Top	385.57'	
32	Inlet	Top	385.20'	
33	Inlet	Top	378.93'	
34	Inlet	Top	379.17'	
35	Inlet	Top	379.24'	
36	Manhole	Top	375.19'	
37	Manhole	Top		
38	Manhole	Top	382.99'	
39	Manhole	Top	371.99'	
40	Inlet	Top	371.29'	
41	Manhole	Top	360.41'	
42	Manhole	Top	374.58'	
43	Inlet	Top	376.68'	
44	Inlet	Top	376.69'	
45	Manhole	Top	376.19'	
46	Inlet	Top	381.25'	
47	Inlet	Top	380.58'	
48	Inlet	Top	404.20'	
49	Inlet	Top	404.28'	
50	Inlet	Top	404.74'	
51	Manhole	Top	400.76'	
52	Manhole	Top	403.38'	
53	Manhole	Top	404.13'	
54	Manhole	Top	404.51'	
55	Inlet	Top	402.06'	

Existing Sanitary Sewer Structure Table				
No.	Description	Elevation		Notes
1	Manhole	Top	416.15'	
	6" PVC	Invert	403.75'	W
	6" PVC	Invert	410.90'	NW
	6" PVC	Invert	403.75'	E
2	Manhole	Top	60.47'	
	8" PVC	Invert	401.00'	W
	8" PVC	Invert	400.95'	E
3	Manhole	Top	405.63'	
	8" PVC	Invert	396.33'	N
	8" PVC	Invert	396.13'	S
4	Manhole	Top	403.28'	
	8" PVC	Invert	389.95'	S
	8" PVC	Invert	395.73'	N
	8" PVC	Invert	390.13'	NE
5	Manhole	Unknown		
	8" PVC	Invert	389.83'	W
6	Manhole	Top	397.69'	
	6" PVC	Invert	392.54'	SW
	8" PVC	Invert	392.17'	N
7	Manhole	Top	415.71'	
	6" PVC	Invert	399.19'	S
	6" PVC	Invert	398.95'	NE
	6" Steel	Invert	399.28'	SW
8	Manhole	Top	410.85'	
	6" Steel	Invert	404.95'	S
	6" Steel	Invert	405.40'	NE
	6" Steel	Invert	404.80'	SW
9	Manhole	Unknown		
10	Manhole	Unknown		
11	Manhole	Top	429.82'	
	6" PVC	Invert	423.72'	E
	6" PVC	Invert	423.52'	W
	6" PVC	Invert	423.42'	NW
12	Manhole	Top	419.08'	
	6" PVC	Invert	413.13'	S
	6" Steel	Invert	413.08'	N
13	Manhole	Top	425.83'	
	6" PVC	Invert	417.63'	W
	6" PVC	Invert	419.63'	NW
	6" PVC	Invert	417.83'	N

GENERAL NOTES

- TOPOGRAPHIC AND SURFACE INFORMATION SHOWN WAS OBTAINED FROM FIELD SURVEY BY RK&K, COMPLETED DECEMBER 23, 2021. UTILITY INFORMATION SHOWN WAS PROVIDED BY AII/DATA ON FEBRUARY 4, 2022.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.
- BEARINGS AND HORIZONTAL COORDINATES SHOWN ON THIS PLAN ARE BASED UPON MARYLAND STATE PLANE COORDINATE SYSTEM NAD83. VERTICAL ELEVATIONS SHOWN ARE BASED UPON VERTICAL DATUM NAVD83.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY, BASED UPON FIELD OBSERVATIONS AND RECORD DOCUMENTS. THEY HAVE NOT BEEN COMPARED TO OR VERIFIED WITH FIELD TEST PITS. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY TO HIS OWN SATISFACTION THE EXACT LOCATION, SIZE AND TYPE OF ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY WORK. THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANIES INVOLVED PRIOR TO THE START OF THE WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR THE COST OF ANY AND ALL DAMAGES WHICH OCCUR AS A RESULT OF A FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES TO REMAIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 FIVE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY INVERTS AND CLEARANCES FROM NEW WORK PRIOR TO START OF ANY WORK.
- THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF ALL NEW CONSTRUCTION AND VERIFY ALL JURISDICTIONAL SETBACKS AND BUFFERS PRIOR TO START OF ANY WORK.
- EXISTING UTILITIES WHICH ARE NOT TO BE REMOVED OR ABANDONED SHALL REMAIN OPERATIONAL AT ALL TIMES. APPROPRIATE EXISTING UTILITIES SHALL REMAIN IN SERVICE UNTIL REPLACEMENT/RELOCATED UTILITIES ARE OPERATIONAL.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL EXISTING AND PROPOSED BUILDING ENTRANCES DURING ALL PHASES OF CONSTRUCTION, UNLESS OTHERWISE NOTED IN THESE DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER IF EXISTING OR PROPOSED CONDITIONS RESTRICT ABILITY TO ACHIEVE POSITIVE DRAINAGE FROM BUILDINGS PRIOR TO THE START OF CONSTRUCTION.

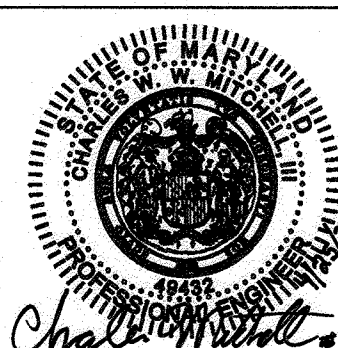
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 DATE STAMP: 01/20/22 10:26 AM

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 Chief, Division of Land Development



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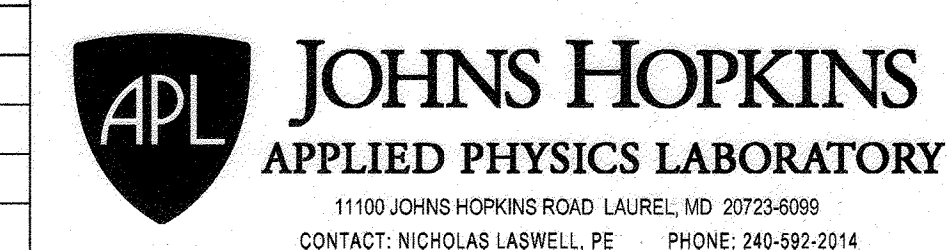


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DESIGN BY: EKW/ECM
 DRAWN BY: EKW/ECM
 CHECKED BY: KDE
 DATE: 02/10/2023

BY	NO.	REVISION	DATE

OWNER / DEVELOPER:



TABLES & LEGEND
 JOHNS HOPKINS UNIVERSITY
 APPLIED PHYSICS LABORATORY
BUILDING 28

11100 JOHNS HOPKINS ROAD
 ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND

ECP-23-022

SHEET 3 OF 14

C-003

RK&K PROJECT NUMBER 21243

SCALE: As Shown

MATCHLINE - SEE SHEET C-105

MATCHLINE - SEE SHEET C-104

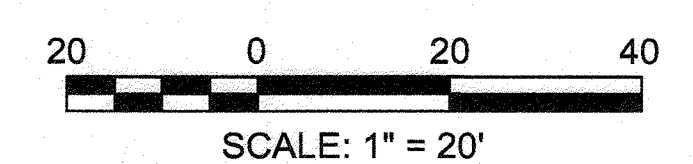


EXISTING LEGEND

- BUILDING
- CURB AND GUTTER
- TREE / BUSH
- MAJOR CONTOUR
- MINOR CONTOUR
- DITCH
- ELECTRIC
- COMMUNICATIONS
- GAS
- STORM
- SANITARY
- WATER
- ELECTRIC POLE / LIGHT POLE
- ELECTRIC MANHOLE
- ELECTRIC HANDHOLE
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS HANDHOLE
- STORM MANHOLE AND IDENTIFIER
- STORM INLET AND IDENTIFIER
- STORM CLEAN OUT
- SANITARY MANHOLE AND IDENTIFIER
- WATER VALVE
- WATER STRUCTURE
- FIRE HYDRANT
- GAS VALVE

PROPOSED LEGEND

- LIMITS OF DISTURBANCE (LOD)
- BUILDING
- RETAINING WALL/SCREEN WALL
- CURB AND GUTTER
- ADA PARKING
- PARKING COUNT
- CONCRETE SIDEWALK
- CROSSWALK
- MICRO-BIORETENTION
- PERMEABLE PAVEMENT
- FOCAL POINT FACILITY (SURFACE STORAGE & FOCAL POINT BED)
- UNDERGROUND DETENTION VAULT
- R-TANK SYSTEM
- MAJOR CONTOUR
- MINOR CONTOUR
- SPOT ELEVATION
- SLOPE
- COMMUNICATIONS
- COMMUNICATIONS VAULT
- ELECTRIC
- ELECTRIC DUCT BANK
- ELECTRIC HANDBOX
- ELECTRIC MANHOLE
- LIGHT POLE
- STORM DRAIN
- 48" STORM MANHOLE
- TRENCH DRAIN
- STORM INLET
- SANITARY
- 48" SANITARY MANHOLE
- WATER



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Chief, Development Engineering Division *PSD* 5/3/23 Date

Chief, Division of Land Development *JK* 5/2/23 Date

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CHECKED BY: KDE			
DATE: 02/10/2023	BY	NO.	REVISION
			DATE

OWNER / DEVELOPER:

APL **JOHNS HOPKINS**
APPLIED PHYSICS LABORATORY

11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-0999
CONTACT: NICHOLAS LASWELL, PE PHONE: 240-592-2014

CONCEPT PLAN
JOHNS HOPKINS UNIVERSITY
APPLIED PHYSICS LABORATORY
BUILDING 28

TAX MAP: 41 11100 JOHNS HOPKINS ROAD ZONED: PEC
PARCEL: 123 GRID: 18 ELECTION DISTRICT 5 HOWARD COUNTY, MARYLAND

ECP-23-022 SHEET 4 OF 14

C-101

RK&K PROJECT NUMBER
21243

SCALE:
As Shown

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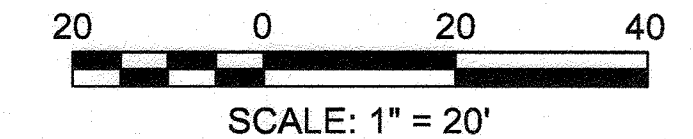


EXISTING LEGEND

- BUILDING
- CURB AND GUTTER
- TREE LINE / BRUSH LINE
- TREE / BUSH
- MAJOR CONTOUR
- MINOR CONTOUR
- DITCH
- ELECTRIC
- COMMUNICATIONS
- GAS
- STORM
- SANITARY
- WATER
- ⊕ ELECTRIC POLE / LIGHT POLE
- ⊕ ELECTRIC MANHOLE
- ⊕ ELECTRIC HANDHOLE
- ⊕ COMMUNICATIONS MANHOLE
- ⊕ COMMUNICATIONS HANDHOLE
- ⊕ STORM MANHOLE AND IDENTIFIER
- ⊕ STORM INLET AND IDENTIFIER
- ⊕ STORM CLEAN OUT
- ⊕ SANITARY MANHOLE AND IDENTIFIER
- ⊕ WATER VALVE
- ⊕ WATER STRUCTURE
- ⊕ FIRE HYDRANT
- ⊕ GAS VALVE

PROPOSED LEGEND

- LIMITS OF DISTURBANCE (LOD)
- BUILDING
- RETAINING WALL/SCREEN WALL
- CURB AND GUTTER
- ⊕ ADA PARKING
- ⊕ PARKING COUNT
- CONCRETE SIDEWALK
- CROSSWALK
- MICRO-BIORETENTION
- PERMEABLE PAVEMENT
- FOCAL POINT FACILITY (SURFACE STORAGE & FOCAL POINT BED)
- UNDERGROUND DETENTION VAULT
- R-TANK SYSTEM
- MAJOR CONTOUR
- MINOR CONTOUR
- SPOT ELEVATION
- SLOPE
- COMMUNICATIONS
- COMMUNICATIONS VAULT
- ELECTRIC
- ELECTRIC DUCT BANK
- ELECTRIC HANDBOX
- ELECTRIC MANHOLE
- LIGHT POLE
- STORM DRAIN
- 48" STORM MANHOLE
- TRENCH DRAIN
- STORM INLET
- SANITARY
- 48" SANITARY MANHOLE
- WATER



MATCHLINE - SEE SHEET C-106

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 Chief, Division of Land Development

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REVISION	
DATE	

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APPLIED PHYSICS LABORATORY
 11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-6099
 CONTACT: NICHOLAS LASWELL, PE PHONE: 240-692-2014

CONCEPT PLAN
 JOHNS HOPKINS UNIVERSITY
 APPLIED PHYSICS LABORATORY
BUILDING 28
 11100 JOHNS HOPKINS ROAD
 PARCEL: 123 GRID: 15 ZONED: PEC
 ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
 ECP-23-022 SHEET 5 OF 14

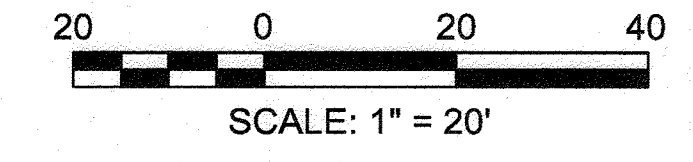
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- EXISTING LEGEND**
- BUILDING
 - CURB AND GUTTER
 - TREE LINE / BRUSH LINE
 - TREE / BUSH
 - 405 MAJOR CONTOUR
 - 404 MINOR CONTOUR
 - DITCH
 - E ELECTRIC
 - T COMMUNICATIONS
 - G GAS
 - SD STORM
 - S SANITARY
 - W WATER
 - ⊕ ELECTRIC POLE / LIGHT POLE
 - ⊖ ELECTRIC MANHOLE
 - ⊖ ELECTRIC HANDBOX
 - ⊖ COMMUNICATIONS MANHOLE
 - ⊖ COMMUNICATIONS HANDBOX
 - ⊖ STORM MANHOLE AND IDENTIFIER
 - ⊖ STORM INLET AND IDENTIFIER
 - ⊖ STORM CLEAN OUT
 - ⊖ SANITARY MANHOLE AND IDENTIFIER
 - ⊖ WATER VALVE
 - ⊖ WATER STRUCTURE
 - ⊖ FIRE HYDRANT
 - ⊖ GAS VALVE

- PROPOSED LEGEND**
- 100 LIMITS OF DISTURBANCE (LOD)
 - BUILDING
 - RETAINING WALL/SCREEN WALL
 - CURB AND GUTTER
 - ⊖ ADA PARKING
 - ⊖ PARKING COUNT
 - CONCRETE SIDEWALK
 - CROSSWALK
 - MB-# MICRO-BIORETENTION
 - PP-# PERMEABLE PAVEMENT
 - FP-# FOCAL POINT FACILITY (SURFACE STORAGE & FOCAL POINT BED)
 - DV-# UNDERGROUND DETENTION VAULT
 - RT-# R-TANK SYSTEM
 - 420 MAJOR CONTOUR
 - 421 MINOR CONTOUR
 - ⊖ X406.04 SPOT ELEVATION
 - 3.5% SLOPE
 - C COMMUNICATIONS
 - C COMMUNICATIONS VAULT
 - E ELECTRIC
 - E ELECTRIC DUCT BANK
 - E ELECTRIC HANDBOX
 - E ELECTRIC MANHOLE
 - ⊖ LIGHT POLE
 - SD STORM DRAIN
 - ⊖ 48" STORM MANHOLE
 - TRENCH DRAIN
 - STORM INLET
 - S SANITARY
 - ⊖ 48" SANITARY MANHOLE
 - W WATER



MATCHLINE - SEE SHEET C-101

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Chief, Division of Land Development *[Signature]* Date: 5/2/23

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CONCEPT PLAN
 JOHNS HOPKINS UNIVERSITY
 APPLIED PHYSICS LABORATORY
BUILDING 28

TAX MAP: 41 PARCEL: 23 GRID: 18 ZONED: PEC
 ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND

ECP-23-022 SHEET 6 OF 14

C-103

RK&K PROJECT NUMBER 21243

SCALE: As Shown

MATCHLINE - SEE SHEET C-101

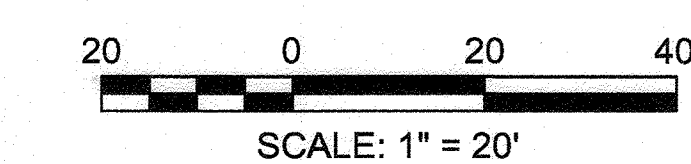


EXISTING LEGEND

	BUILDING
	CURB AND GUTTER
	TREE / BUSH
	MAJOR CONTOUR
	MINOR CONTOUR
	DITCH
	ELECTRIC
	COMMUNICATIONS
	GAS
	STORM
	SANITARY
	WATER
	ELECTRIC POLE / LIGHT POLE
	ELECTRIC MANHOLE
	COMMUNICATIONS MANHOLE
	COMMUNICATIONS HANDHOLE
	STORM MANHOLE AND IDENTIFIER
	STORM INLET AND IDENTIFIER
	STORM CLEAN OUT
	SANITARY MANHOLE AND IDENTIFIER
	WATER VALVE
	WATER STRUCTURE
	FIRE HYDRANT
	GAS VALVE

PROPOSED LEGEND

	LIMITS OF DISTURBANCE (LOD)
	BUILDING
	RETAINING WALL/SCREEN WALL
	CURB AND GUTTER
	ADA PARKING
	PARKING COUNT
	CONCRETE SIDEWALK
	CROSSWALK
	MICRO-BIORETENTION
	PERMEABLE PAVEMENT
	FOCAL POINT FACILITY (SURFACE STORAGE & FOCAL POINT BED)
	UNDERGROUND DETENTION VAULT
	R-TANK SYSTEM
	420 MAJOR CONTOUR
	421 MINOR CONTOUR
	X406.04 SPOT ELEVATION
	3.5% SLOPE
	COMMUNICATIONS VAULT
	ELECTRIC
	ELECTRIC DUCT BANK
	ELECTRIC HANDBOX
	ELECTRIC MANHOLE
	LIGHT POLE
	STORM DRAIN



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 Chief, Division of Land Development

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Chad [Signature]

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 CONTACT: NICHOLAS LASWELL, PE PHONE: 240-592-2014

CONCEPT PLAN
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 APPLIED PHYSICS LABORATORY
BUILDING 28
 TAX MAP: 41 PARCEL: 123 GRID: 18 ZONED: PEC
 ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
 ECP-23-022 SHEET 7 OF 14

C-104
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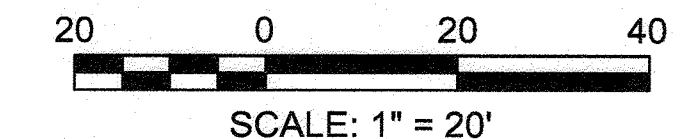


EXISTING LEGEND

[Symbol]	BUILDING
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[Symbol]	TREE LINE / BRUSH LINE
[Symbol]	TREE / BUSH
[Symbol]	MAJOR CONTOUR
[Symbol]	MINOR CONTOUR
[Symbol]	DITCH
[Symbol]	ELECTRIC
[Symbol]	COMMUNICATIONS
[Symbol]	GAS
[Symbol]	STORM
[Symbol]	SANITARY
[Symbol]	WATER
[Symbol]	ELECTRIC POLE / LIGHT POLE
[Symbol]	ELECTRIC MANHOLE
[Symbol]	ELECTRIC HANDHOLE
[Symbol]	COMMUNICATIONS MANHOLE
[Symbol]	COMMUNICATIONS HANDHOLE
[Symbol]	STORM MANHOLE AND IDENTIFIER
[Symbol]	STORM INLET AND IDENTIFIER
[Symbol]	STORM CLEAN OUT
[Symbol]	SANITARY MANHOLE AND IDENTIFIER
[Symbol]	WATER VALVE
[Symbol]	WATER STRUCTURE
[Symbol]	FIRE HYDRANT
[Symbol]	GAS VALVE

PROPOSED LEGEND

[Symbol]	LIMITS OF DISTURBANCE (LOD)
[Symbol]	BUILDING
[Symbol]	RETAINING WALL/SCREEN WALL
[Symbol]	CURB AND GUTTER
[Symbol]	ADA PARKING
[Symbol]	PARKING COUNT
[Symbol]	CONCRETE SIDEWALK
[Symbol]	CROSSWALK
[Symbol]	MICRO-BIORETENTION
[Symbol]	PERMEABLE PAVEMENT
[Symbol]	FOCAL POINT FACILITY (SURFACE STORAGE & FOCAL POINT BED)
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[Symbol]	R-TANK SYSTEM
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[Symbol]	COMMUNICATIONS VAULT
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[Symbol]	ELECTRIC MANHOLE
[Symbol]	LIGHT POLE
[Symbol]	STORM DRAIN
[Symbol]	48" STORM MANHOLE
[Symbol]	TRENCH DRAIN
[Symbol]	STORM INLET
[Symbol]	SANITARY
[Symbol]	48" SANITARY MANHOLE
[Symbol]	WATER



MATCHLINE - SEE SHEET C-101

MATCHLINE - SEE SHEET C-106

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Chief, Development Engineering Division
Date: 5/3/23
Chief, Division of Land Development
Date: 5/2/23

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DATE:	02/10/2023				

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APPLIED PHYSICS LABORATORY
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CONTACT: NICHOLAS LASWELL, PE PHONE: 240-592-2014

CONCEPT PLAN
JOHNS HOPKINS UNIVERSITY
APPLIED PHYSICS LABORATORY
BUILDING 28
11100 JOHNS HOPKINS ROAD
PARCEL: 123 GRID: 10 ZONED: PEC
ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
ECP-23-022 SHEET 9 OF 14

C-105
RK&K PROJECT NUMBER 21243
SCALE: As Shown

MATCHLINE - SEE SHEET C-105

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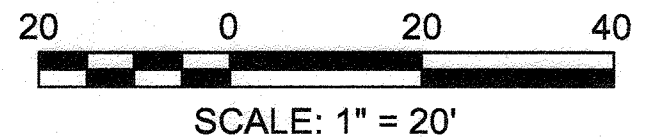


EXISTING LEGEND

- BUILDING
- CURB AND GUTTER
- TREE LINE / BRUSH LINE
- TREE / BUSH
- 406 MAJOR CONTOUR
- 404 MINOR CONTOUR
- DITCH
- E ELECTRIC
- T COMMUNICATIONS
- G GAS
- SD STORM
- SS SANITARY
- W WATER
- ELECTRIC POLE / LIGHT POLE
- ELECTRIC MANHOLE
- ELECTRIC HANDHOLE
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS HANDHOLE
- STORM MANHOLE AND IDENTIFIER
- STORM INLET AND IDENTIFIER
- STORM CLEAN OUT
- SANITARY MANHOLE AND IDENTIFIER
- WATER VALVE
- WATER STRUCTURE
- FIRE HYDRANT
- GAS VALVE

PROPOSED LEGEND

- 100 LIMITS OF DISTURBANCE (LOD)
- BUILDING
- RETAINING WALL/SCREEN WALL
- CURB AND GUTTER
- ADA PARKING
- PARKING COUNT
- CONCRETE SIDEWALK
- CROSSWALK
- MB-# MICRO-BIORETENTION
- PP-# PERMEABLE PAVEMENT
- FP-# FOCAL POINT FACILITY (SURFACE STORAGE & FOCAL POINT BED)
- DV-# UNDERGROUND DETENTION VAULT
- RT-# R-TANK SYSTEM
- 420 MAJOR CONTOUR
- 421 MINOR CONTOUR
- X406.04 SPOT ELEVATION
- 3.5% SLOPE
- C COMMUNICATIONS
- COMMUNICATIONS VAULT
- E ELECTRIC
- ELECTRIC DUCT BANK
- ELECTRIC HANDBOX
- ELECTRIC MANHOLE
- LIGHT POLE
- SD STORM DRAIN
- 48" STORM MANHOLE
- TRENCH DRAIN
- STORM INLET
- S SANITARY
- 48" SANITARY MANHOLE
- W WATER



FILE PATH: \\AD.RK.COM\SC\PROJECTS\2021\12\140_APL\B28\CONCEPT PLAN\CONCEPT PLAN WEST PARKING LOT.DWG
USER NAME: ENISEL
DATE STAMP: 01/10/2022 10:26 AM

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *1B* 5/3/23
Date

Chief, Division of Land Development *HL* 5/12/23
Date

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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. 49432, EXPIRATION DATE: 09/31/24

DESIGN BY: EKW/ECM			
DRAWN BY: EKW/ECM			
CHECKED BY: KDE			
DATE: 02/10/2023	BY NO.	REVISION	DATE

OWNER / DEVELOPER:

APL **JOHNS HOPKINS**
APPLIED PHYSICS LABORATORY
11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-6099
CONTACT: NICHOLAS LASWELL, PE PHONE: 240-592-2014

CONCEPT PLAN
JOHNS HOPKINS UNIVERSITY
APPLIED PHYSICS LABORATORY
BUILDING 28
11100 JOHNS HOPKINS ROAD
TAX MAP: 41 PARCEL: 123 GRID: 115 ZONED: PEC
ELECTION DISTRICT 5 HOWARD COUNTY, MARYLAND
ECP-23-022 SHEET 10 OF 14

C-106
RK&K PROJECT NUMBER 21243
SCALE: As Shown



DRAINAGE AREA LEGEND

— LOD — SITE AREA

--- DRAINAGE AREA TO BASIN C

- - - DRAINAGE AREA TO BASIN B

· · · · · EXISTING SOIL BOUNDARY

FILE PATH: \\AD.RK&K.COM\X\PROJECTS\2023\12143_APL\EXHIBIT\LANDSCAPE\107 DRAINAGE AREA MAP.DWG
 USER NAME: ENNSEL
 DATE STAMP: 8/17/2023 10:26 AM

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *PD* 5/3/23
 Date

Chief, Division of Land Development *H* 5/2/23
 Date

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DRAWN BY:	EKW/ECM		
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DATE:	02/10/2023	BY	NO.
			REVISION
			DATE

OWNER / DEVELOPER:

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APPLIED PHYSICS LABORATORY
 11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-0099
 CONTACT: NICHOLAS LASWELL, PE PHONE: 240-592-2014

EX. DRAINAGE AREA MAP
 JOHNS HOPKINS UNIVERSITY
 APPLIED PHYSICS LABORATORY
BUILDING 28
 11100 JOHNS HOPKINS ROAD
 TAX MAP: 41 PARCEL: 123 GRID: 18 ZONED: PEC
 ELECTION DISTRICT 5 HOWARD COUNTY, MARYLAND
 ECP-23-022 SHEET 10 OF 14

C-107
 RK&K PROJECT NUMBER 21243
 SCALE: As Shown



DRAINAGE AREA LEGEND

- SITE AREA
- - - DRAINAGE AREA TO BASIN C
- - - DRAINAGE AREA TO BASIN B
- - - EXISTING SOIL BOUNDARY

FILE PATH: \\A:\B\K\COMPS\CLIPDR\PROJECTS\2012\12143_APL\B\K\CLIPDR\ANSI\ECP-107 (DRAINAGE AREA MAP).DWG
 USER NAME: EWESSEL
 DATE STAMP: 01/20/22 10:25 AM

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *PSD*
 Date: 5/3/23

Chief, Division of Land Development *bc*
 Date: 5/2/23

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STATE OF MARYLAND
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Charles A. ...

DESIGN BY:	EKWECM		
DRAWN BY:	EKWECM		
CHECKED BY:	KDE		
DATE:	02/10/2023	BY	NO.
		REVISION	DATE

OWNER / DEVELOPER:

APL **JOHNS HOPKINS**
APPLIED PHYSICS LABORATORY
 11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-6099
 CONTACT: NICHOLAS LASWELL, PE PHONE: 246-692-2014

PROP. DRAINAGE AREA MAP
 JOHNS HOPKINS UNIVERSITY
 APPLIED PHYSICS LABORATORY
BUILDING 28
 11100 JOHNS HOPKINS ROAD
 TAX MAP: 41 PARCEL: 123 GRID: 16 ZONED: PEC
 ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
 ECP-23-022 SHEET 11 OF 14

C-108
 RK&K PROJECT NUMBER 21243
 SCALE: As Shown

GENERAL NOTES

1. TOPOGRAPHIC AND SURFACE INFORMATION SHOWN WAS OBTAINED FROM FIELD SURVEY BY RK&K, COMPLETED DECEMBER 23, 2021. UTILITY INFORMATION SHOWN WAS PROVIDED BY AJD/ATA ON FEBRUARY 4, 2022.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.
3. BEARINGS AND HORIZONTAL COORDINATES SHOWN ON THIS PLAN ARE BASED UPON MARYLAND STATE PLANE COORDINATE SYSTEM NAD83. VERTICAL ELEVATIONS SHOWN ARE BASED UPON VERTICAL DATUM NAVD83.
4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY, BASED UPON FIELD OBSERVATIONS AND RECORD DOCUMENTS. THEY HAVE NOT BEEN COMPARED TO OR VERIFIED WITH FIELD TEST PITS. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY TO HIS OWN SATISFACTION THE EXACT LOCATION, SIZE AND TYPE OF ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY WORK. THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANIES INVOLVED PRIOR TO THE START OF THE WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR THE COST OF ANY AND ALL DAMAGES WHICH OCCUR AS A RESULT OF A FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES TO REMAIN.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 FIVE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.
6. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY INVERTS AND CLEARANCES FROM NEW WORK PRIOR TO START OF ANY WORK.
7. THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF ALL NEW CONSTRUCTION AND VERIFY ALL JURISDICTIONAL SETBACKS AND BUFFERS PRIOR TO START OF ANY WORK.
8. EXISTING UTILITIES WHICH ARE NOT TO BE REMOVED OR ABANDONED SHALL REMAIN OPERATIONAL AT ALL TIMES. APPROPRIATE EXISTING UTILITIES SHALL REMAIN IN SERVICE UNTIL REPLACEMENT/RELOCATED UTILITIES ARE OPERATIONAL.
9. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL EXISTING AND PROPOSED BUILDING ENTRANCES DURING ALL PHASES OF CONSTRUCTION, UNLESS OTHERWISE NOTED IN THESE DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER IF EXISTING OR PROPOSED CONDITIONS RESTRICT ABILITY TO ACHIEVE POSITIVE DRAINAGE FROM BUILDINGS PRIOR TO THE START OF CONSTRUCTION.
10. SEE SHEET C-003 FOR FULL EXISTING AND PROPOSED FEATURES LEGEND

STANDARD STABILIZATION NOTE:

Following initial soil disturbance or re-disturbance, seeding for permanent or temporary stabilization shall be completed within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading. Once vegetation is established, the site shall have 95% groundcover to be considered adequately stabilized.

SITE SOILS SUMMARY TABLE					
NAME	UNIT	Slope	HSG	HYDRIC	K FACTOR
Urban land-Udorthefts complex	UdD	8-25%	D	No	Unrated
Manor loam	MaB	3-8%	B	No	0.24
Manor loam	MaC	8-15%	B	No	0.28
Glenville silt loam	GmB	3-8%	C/D	No	0.37

EROSION AND SEDIMENT CONTROL LEGEND

- LIMIT OF DISTURBANCE (OFFSET 3FT FOR CLARITY)
- DRAINAGE AREA
- SUPER SILT FENCE
- SILT FENCE ON PAVEMENT
- DIVERSION FENCE
- TEMPORARY ASPHALT BERM
- STABILIZED CONSTRUCTION ENTRANCE
- COMBINATION INLET PROTECTION
- CURB INLET PROTECTION
- AT-GRADE INLET PROTECTION
- TEMPORARY GABION OUTLET STRUCTURE
- SEDIMENT TRAP
- EARTH DIKE
- SAME DAY STABILIZATION
- FEATURE TO BE REMOVED
- STOCKPILE AREA
- SILT FENCE
- CONSTRUCTION FENCE (OFFSET 4FT FOR CLARITY)
- SOIL BOUNDARY
- EXISTING STEEP SLOPES (>15%)

SCALE: 1" = 60'

C-600A



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development

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DESIGN BY:	EKWECM	BY	NO.	REVISION	DATE
DRAWN BY:	EKWECM				
CHECKED BY:	KDE				
DATE:	02/10/2023				

OWNER / DEVELOPER:
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APPLIED PHYSICS LABORATORY
 1100 JOHNS HOPKINS ROAD LAUREL, MD 20723-6099
 CONTACT: NICHOLAS LASWELL, PE PHONE: 240-592-2014

EROSION AND SEDIMENT CONTROL - PHASE A LIMITS
 JOHNS HOPKINS UNIVERSITY
 APPLIED PHYSICS LABORATORY
BUILDING 28
 TAX MAP: 4 PARCEL: 123 GRID: 18 ZONED: PEC
 ELECTION DISTRICT 5 HOWARD COUNTY, MARYLAND
 ECP-23-022 SHEET 12 OF 14

RK&K PROJECT NUMBER
 21243
 SCALE:
 As Shown

FILE PATH: \\AS.RK.COM\PROJECTS\2023\121343_PLDRCAD\PLANS\C-600A_EROSION AND SEDIMENT CONTROL - PLAN - GENERAL LIMITS - PHASE A.DWG
 USER NAME: EMANNO
 DATE STAMP: 02/10/2023 10:26 AM

GENERAL NOTES

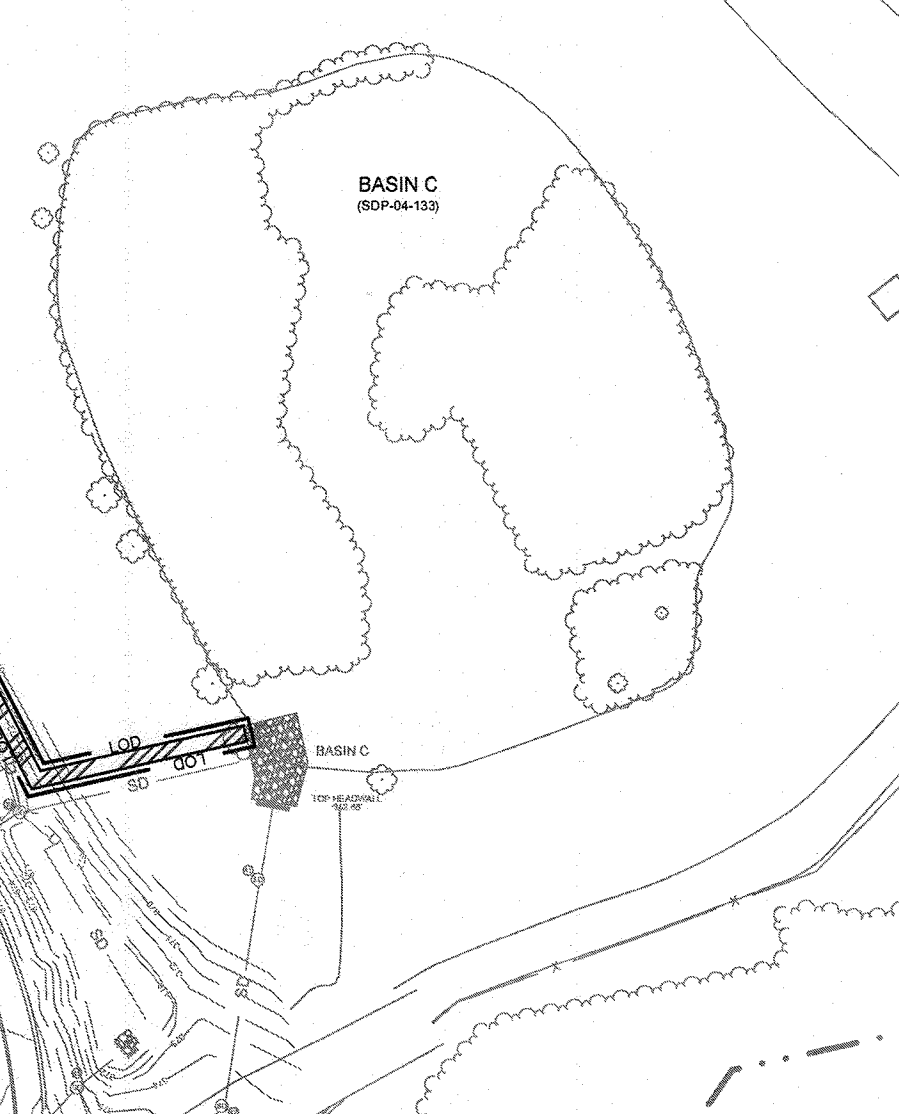
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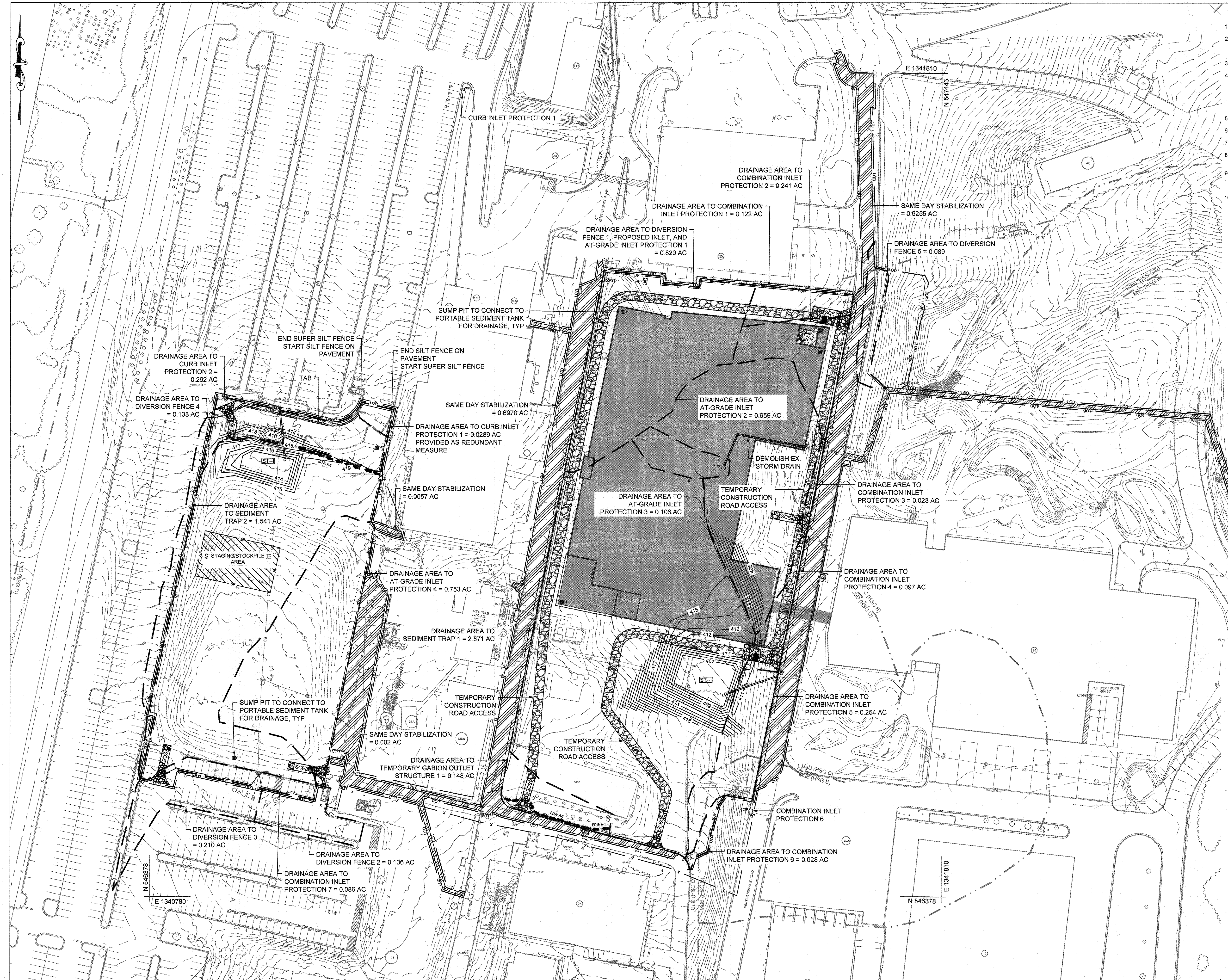
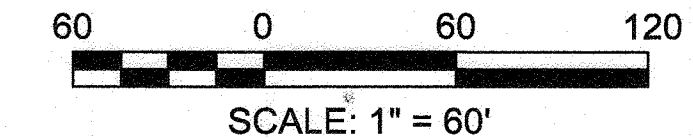
SITE SOILS SUMMARY TABLE

NAME	UNIT	Slope	HSG	HYDRIC	K FACTOR
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Manor loam	MaC	8-15%	B	No	0.28
Glenville silt loam	GmB	3-8%	C/D	No	0.37



EROSION AND SEDIMENT CONTROL LEGEND

- LOD LIMIT OF DISTURBANCE (OFFSET 3FT FOR CLARITY)
- DA DRAINAGE AREA
- SSF SUPER SILT FENCE
- SFP SILT FENCE ON PAVEMENT
- DF DIVERSION FENCE
- TAB TEMPORARY ASPHALT BERM
- SCE STABILIZED CONSTRUCTION ENTRANCE
- COIP COMBINATION INLET PROTECTION
- CIP CURB INLET PROTECTION
- AGIP AT-GRADE INLET PROTECTION
- TGOS TEMPORARY GABION OUTLET STRUCTURE
- ST SEDIMENT TRAP
- ED EARTH DIKE
- SD SAME DAY STABILIZATION
- FCR FEATURE TO BE REMOVED CONSTRUCTION FENCE
- UuD (HSG D) SOIL BOUNDARY
- MaB (HSG B)



FILE PATH: \\V:\RK\COMPS\CADD\PROJECTS\2021\12\143_APL\2021\CADD\PHASE B\0000 - EROSION AND SEDIMENT CONTROL - PLAN - GENERAL LIMITS - PHASE B.DWG
 USER NAME: EMANNO
 DATE STAMP: 01/20/22 10:26 AM

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *[Signature]* 5/3/23
 Chief, Division of Land Development *[Signature]* 5/2/23

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[Signature]

DESIGN BY:	EKW/ECM	BY	NO.	REVISION	DATE
DRAWN BY:	EKW/ECM				
CHECKED BY:	KDE				
DATE:	02/10/2023				

OWNER / DEVELOPER:

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APPLIED PHYSICS LABORATORY
 11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-6099
 CONTACT: NICHOLAS LASWELL, PE PHONE: 240-592-2014

EROSION AND SEDIMENT CONTROL - PHASE B LIMITS
 JOHNS HOPKINS UNIVERSITY
 APPLIED PHYSICS LABORATORY
BUILDING 28
 TAX MAP: 41 PARCEL: 123 GRU: 15 ZONED: PEC
 ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
 ECP-23-022 SHEET 13 OF 14

C-600B
 RK&K PROJECT NUMBER 21243
 SCALE: As Shown

