

HOWARD COMMUNITY COLLEGE WORKFORCE DEVELOPMENT AND TRADES CENTER

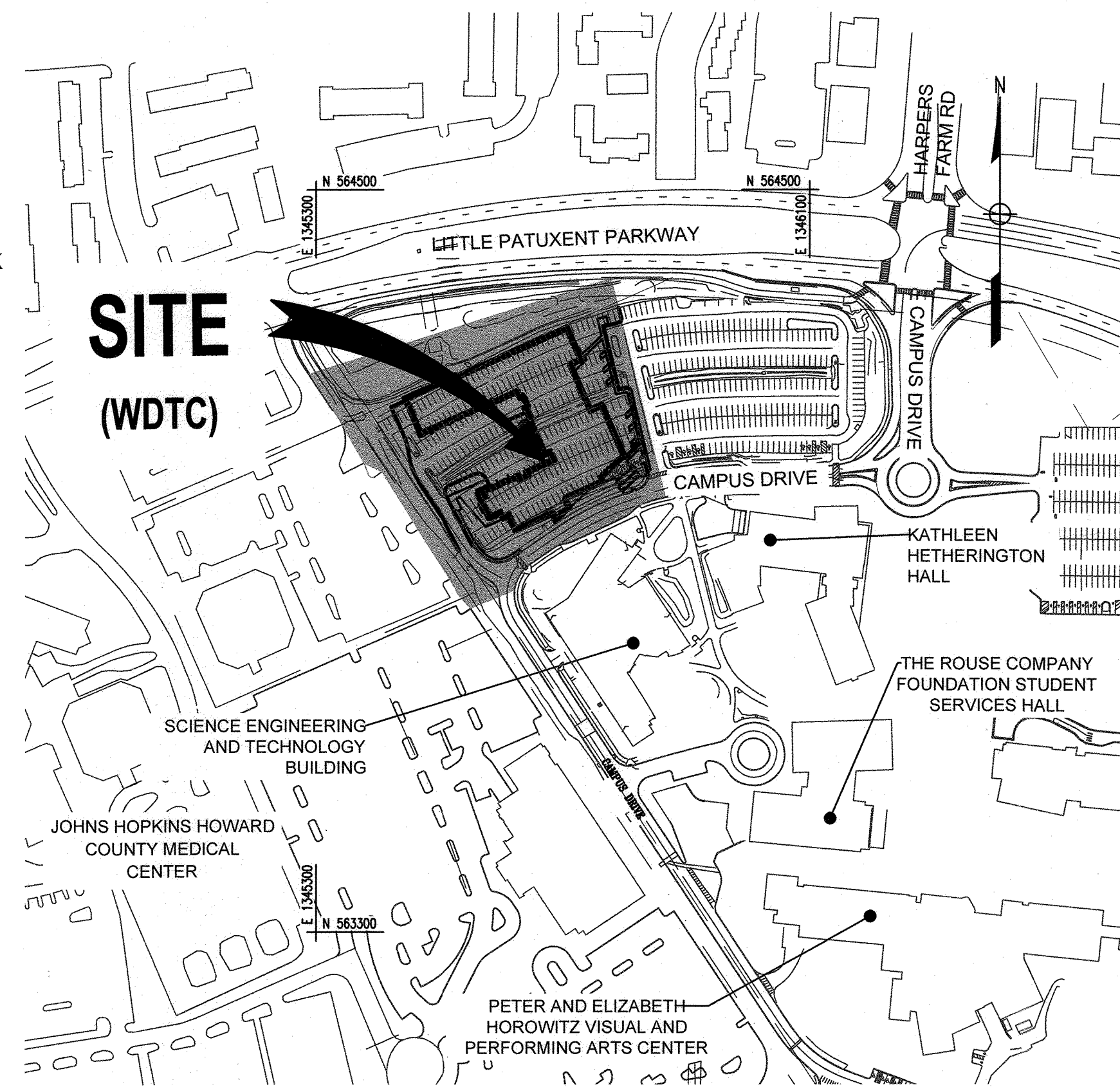
HOWARD COUNTY, MARYLAND
ENVIRONMENTAL CONCEPT PLAN ECP-24-045

SHEET INDEX

- ESD-1 COVER SHEET
- ESD-2 ENVIRONMENTAL CONCEPT PLAN
- ESD-3 OVERALL DRAINAGE AREA MAP EXISTING CONDITIONS
- ESD-4 OVERALL DRAINAGE AREA MAP PROPOSED CONDITIONS
- ESD-5 ESD DRAINAGE AREA MAP
- ESD-6 CONCEPT EROSION AND SEDIMENT CONTROL PLAN

LEGEND

| EXISTING | PROPOSED | DESCRIPTION | EXISTING | PROPOSED | DESCRIPTION |
|-----------|-----------|--|----------|----------|----------------------------------|
| ---114--- | ---114--- | MINOR CONTOUR | --- | --- | BUILDING ROOF LINE |
| ---115--- | ---115--- | MAJOR CONTOUR | --- | --- | ASPHALT PAVING |
| --- | --- | PROPERTY LINE | --- | --- | MILL AND OVERLAY |
| --- | --- | DRAINAGE DIVIDE | --- | --- | CONCRETE HEAVY DUTY PAVING |
| --- | --- | ZONING LINE | --- | --- | CONCRETE PAD/SIDEWALK |
| --- | --- | SETBACK | --- | --- | SWM FACILITY |
| --- | --- | EASEMENT | --- | --- | IMPERVIOUS AREA |
| --- | --- | WATER | --- | --- | SAME DAY STABILIZATION |
| --- | --- | FIRE HYDRANT | --- | --- | DRAINAGE STUDY POINT |
| --- | --- | WATER VALVE | --- | --- | SOIL DIVIDE AND SOIL LABEL |
| --- | --- | WATER METER | --- | --- | STORM DRAIN |
| --- | --- | SWM LIMIT OF DISTURBANCE | --- | --- | BUILDING/SITE FEATURE |
| --- | --- | LIMIT OF WORK | --- | --- | TREELINE |
| --- | --- | SILT FENCE ON PAVEMENT | --- | --- | CHAIN LINK FENCE |
| --- | --- | SUPER SILT FENCE | --- | --- | FENCE GATE |
| --- | --- | SILT FENCE | --- | --- | DOOR |
| --- | --- | DIVERSION FENCE | --- | --- | EDGE OF PAVING |
| --- | --- | SANITARY SEWER | --- | --- | PROPERTY LINE |
| --- | --- | SANITARY MANHOLE | --- | --- | EASEMENT |
| --- | --- | ELECTRIC BOX | --- | --- | TREE |
| --- | --- | FIBER OPTIC | --- | --- | PARKING STRIPING |
| --- | --- | TELEPHONE | --- | --- | ELECTRIC CONDUIT/DUCTBANK |
| --- | --- | NATURAL GAS | --- | --- | OIL/WATER SEPARATOR |
| --- | --- | CTV | --- | --- | INLET PROTECTION |
| --- | --- | UNKNOWN UTILITY | --- | --- | STABILIZED CONSTRUCTION ENTRANCE |
| --- | --- | PASS THROUGH GRATE AND RIPRAP PROTECTION | --- | --- | |
| --- | --- | COMMUNICATION BOX | --- | --- | |
| --- | --- | LIGHT POLE | --- | --- | |
| --- | --- | DIVERSION FENCE FLOW ARROWS | --- | --- | |
| --- | --- | SOIL BORING | --- | --- | |
| --- | --- | STORM DRAIN MANHOLE | --- | --- | |
| --- | --- | STORM DRAIN INLET | --- | --- | |



LOCATION MAP

1" = 200'

GENERAL NOTES

- APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN DOES NOT CONSTITUTE ANY APPROVAL OF SUBSEQUENT SUBDIVISION OR SITE DEVELOPMENT PLANS. ADDITIONAL PLAN COMMENTS MAY BE PROVIDED UPON THE REVIEW OF THE APPLICABLE DEVELOPMENT PLANS IN ACCORDANCE WITH THE LAND DEVELOPMENT AND ZONING REGULATIONS.
- FOREST CONSERVATION OBLIGATIONS FOR THE ENTIRE CAMPUS HAVE BEEN PREVIOUSLY MET WITH 21.318 ACRES OF ON-SITE FOREST CONSERVATION EASEMENTS (SEE F-07-010 PLAT 19049) AND 2.61 ACRES OF OFF-SITE FOREST CONSERVATION EASEMENTS AT THE BELMONT CENTER 9SEE SDP-06-106FC, PLAT NOS 21640 & 21641).

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Cheryl Edwards
CHIEF, DEVELOPMENT ENGINEERING DIVISION
Callie Swann
CHIEF, DIVISION OF LAND DEVELOPMENT

7.11.24
DATE
7/19/24
DATE

BENCHMARK DATA

- 3: N 564330.9127, E 1345714.0185, ELEV. 470.68
4: N 564368.6549, E 1345873.3398, ELEV. 471.08
5: N 564166.0880, E 1345841.4212, ELEV. 461.88

HOWARD COUNTY GEODETIC COORDINATES

- 35C5: N 562148.449, E 1344554.499, ELEV. 451.541
35FA: N 559266.116, E 1344682.707, ELEV. 410.340

SITE ANALYSIS DATA CHART

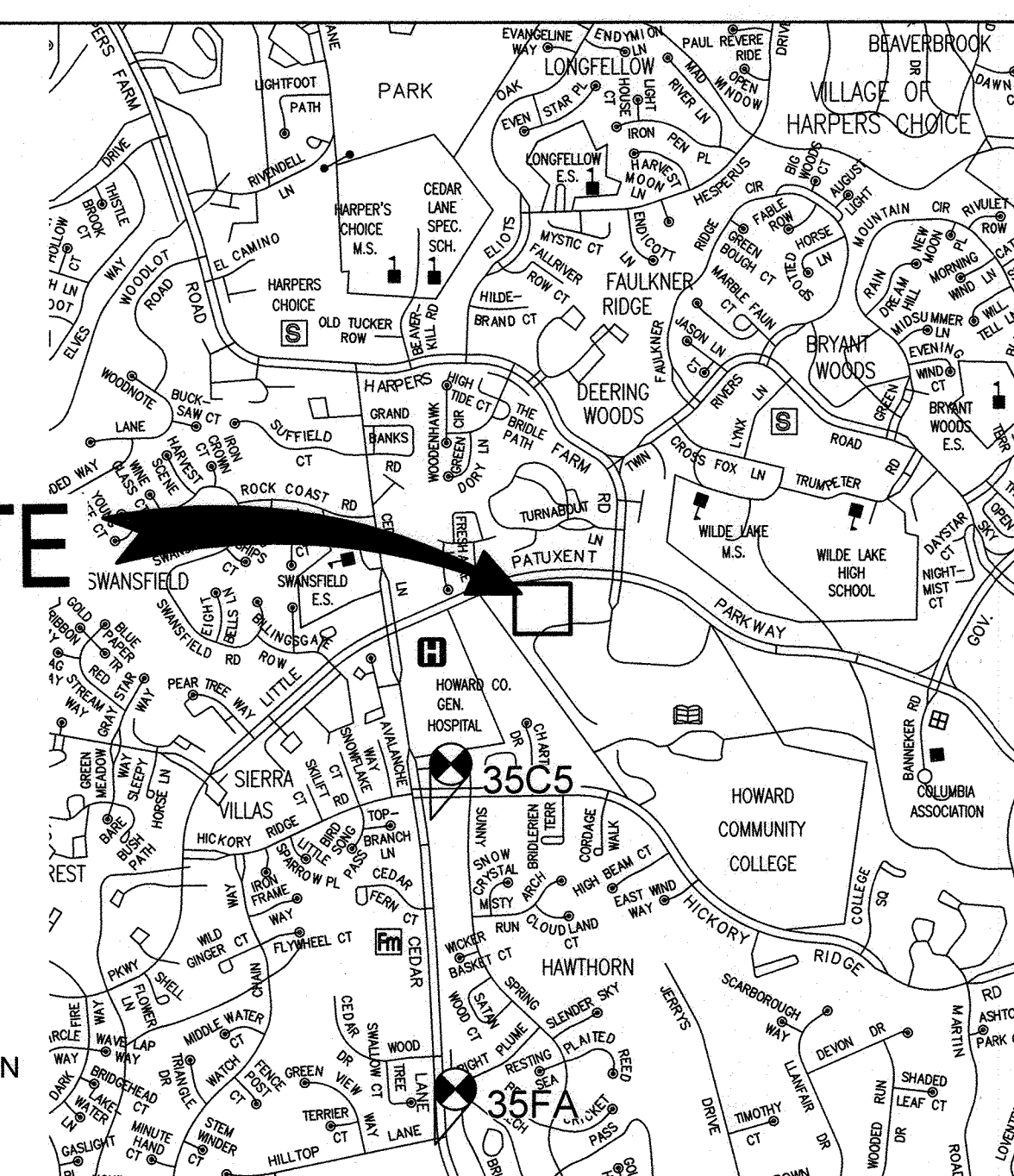
TOTAL PROPERTY AREA: 97.46 ACRES
AREA OF PLAN SUBMISSION: 3.19 ACRES
LIMIT OF DISTURBED AREA (ESC): 3.19 ACRES
LIMIT OF DISTURBED AREA (SWM): 2.91 ACRES
PROPOSED IMPERVIOUS COVER: 2.01 ACRES
ALL AREAS BELOW ARE TAKEN FROM WITHIN THE LOD
STEEP SLOPES AREA: 0 SF
FLOODPLAIN AREA: 0 SF
WETLANDS AREA: 0 SF
STREAM, WETLANDS, OR FLOODPLAIN BUFFER AREA: 0 SF
FORESTS: SEE SIMPLIFIED FOREST STAND DELINEATION PLAN
ERODIBLE SOILS: 0SF

PRESENT ZONING DESIGNATION: POR & NT
PROPOSED USES: EDUCATIONAL BUILDING

WAIVERS: NONE

APPLICABLE DPZ FILE NUMBERS: SDP-03-156, SDP-11-020,
SDP-14-066, GP-09-81

SITE



COPYRIGHT ADC THE MAP PEOPLE
PERMITTED USE NUMBER 21002224

ADC MAP: 26
GRID: D8

VICINITY MAP

1" = 1500'

ENVIRONMENTAL SITE DESIGN/SWM NARRATIVE

THE SITE WAS EVALUATED FOR STORMWATER MANAGEMENT, AS REQUIRED BY THE STORMWATER MANAGEMENT ACT OF 2007 AND THE HOWARD COUNTY DESIGN MANUAL VOLUME I. THESE REGULATIONS REQUIRE THAT ENVIRONMENTAL SITE DESIGN (ESD) BE IMPLEMENTED TO THE MAXIMUM EXTENT PRACTICABLE FOR EVERY NEW PROJECT. ENVIRONMENTAL SITE DESIGN IS A SITE DESIGN STRATEGY TO:

- OPTIMIZE CONSERVATION OF NATURAL FEATURES.
- MINIMIZE IMPERVIOUS SURFACES.
- SLOW DOWN RUNOFF TO MAINTAIN DISCHARGE TIMING AND INCREASE INFILTRATION AND EVAPOTRANSPIRATION.
- USE OTHER NONSTRUCTURAL PRACTICES AND INNOVATIVE TECHNOLOGIES AS APPROVED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE).

BY IMPLEMENTING ESD, THE ULTIMATE GOAL IS TO MAINTAIN THE RUNOFF CHARACTERISTICS OF THE SITE TO MIMIC PREDEVELOPMENT WOODS IN GOOD CONDITION.

IN THIS PROJECT, THE OVERALL PROPOSED DRAINAGE PATTERNS ARE MOSTLY MAINTAINED TO EXISTING DRAINAGE CONDITIONS. THE LIMIT OF DISTURBANCE IS MINIMIZED BY CLUSTERING THE MICRO-BIORETENTION FACILITIES, ADJACENT TO IMPERVIOUS AREAS AND TOWARDS THE INTERIOR OF THE SITE. PAVEMENT WIDTHS ARE REDUCED WHERE POSSIBLE. NO STRUCTURAL STORMWATER MANAGEMENT FACILITIES ARE REQUIRED. HOWARD COUNTY COMMUNITY COLLEGE WILL MAINTAIN ALL OF THE PROPOSED ESD PRACTICES.

THE ENTRANCES TO THE SITE MEET ALL HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS.

***EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED THROUGH A USE OF A STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, INLET PROTECTION, DIVERSION FENCE, AND OTHER APPROVED MEASURES.

THE SITE WILL MAXIMIZE THE USE OF ESD PRACTICES BY INCORPORATING MICRO-BIORETENTION AREAS.

THE VOLUMETRIC REQUIREMENTS FOR REDEVELOPMENT ARE BASED ON A PE OF ONE (1) INCH FOR PROPOSED IMPERVIOUS AREA THAT DOES NOT EXCEED THE EXISTING IMPERVIOUS AREA TOTAL. ANY ADDITIONAL PROPOSED IMPERVIOUS AREA EXCEEDING THE EXISTING IMPERVIOUS AREA IS SUBJECT TO MDE'S NEW DEVELOPMENT CRITERIA. HOWEVER, THE CURRENT SITE LAYOUT CONTAINS LESS IMPERVIOUS AREA THAN EXISTING CONDITIONS. THE PROJECT'S SWM LIMIT OF DISTURBANCE (LOD) IS UTILIZED FOR THE SWM REQUIREMENT CALCULATIONS, WITH UTILITY WORK FOR THE PROJECT THAT WILL NOT RESULT IN A LAND USE CHANGE FROM EXISTING CONDITIONS EXCLUDED FROM THE SWM CALCULATIONS. THESE AREAS ARE NOT INCLUDED IN THE CALCULATIONS BUT ARE INCLUDED AS A LIMIT OF WORK (LOW). A TARGET ESD VOLUME IS THEN CALCULATED FOR THE DRAINAGE AREA BASED ON THE PE AND THE PROPOSED SITE IMPERVIOUS AREAS. THE TARGET ESD VOLUME IS 7,087 CF AND THE TARGET PE VAULE IS 1 INCH.

INDIVIDUAL ESD PRACTICES ARE LOCATED WITHIN THE SITE AND SIZED BASED ON THE DRAINAGE AREA AND IMPERVIOUS AREA FLOWING TO THE PRACTICE. THE TOTAL OF THE ESD VOLUMES CAPTURED BY EACH ESD PRACTICE MEETS THE TARGET ESD VOLUME INITIALLY CALCULATED FOR THE ENTIRE SITE.

BY MEETING THE ESD VOLUME, WATER QUALITY VOLUME (WQV) REQUIREMENTS ARE MET.

FOR THIS PROJECT, A TOTAL OF 3 INDIVIDUAL ESD PRACTICES ARE PROPOSED: 3 MICRO-BIORETENTION FACILITIES.

| ADDRESS CHART | |
|---------------|-------------------------------|
| PARCEL # | STREET ADDRESS |
| 47 | 10901 LITTLE PATUXENT PARKWAY |

| OWNER: | DEVELOPER: | WATER CODE: | SEWER CODE: | BUILDING: | STREET ADDRESS: |
|---|---|--|---------------|---------------|-----------------|
| HOWARD COMMUNITY COLLEGE 10901 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 ATTN: MR. TRAVIS HOPKINS | HOWARD COMMUNITY COLLEGE 10901 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 ATTN: MR. TRAVIS HOPKINS | PUBLIC | PUBLIC | N/A | N/A |
| 443-518-4751 | 443-518-4751 | PROJECT NAME: | SECTION/AREA: | PARCEL: | |
| | | HOWARD COMMUNITY COLLEGE WORKFORCE DEVELOPMENT AND TRADES CENTER | N/A | 47 | |
| | | L/F: | GRID #: | ZONING: | TAX MAP: |
| | | 438/155 | 00468/00224 | POR/NT | 35 |
| | | | | BLOCK: | ELEC. DIST.: |
| | | | | N/A | 5 |
| | | | | CENSUS TRACT: | |
| | | | | | 6056.02 |

| REVISIONS | |
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| | |

OWNER/DEVELOPER

HOWARD
COMMUNITY COLLEGE

10901 LITTLE PATUXENT PARKWAY
COLUMBIA, MD 21044
443-518-1000

**WORKFORCE
DEVELOPMENT AND
TRADES CENTER**

PROPERTY

TAX MAP: 35
GRID: 6
PARCEL: 47
ZONING: POR & NT
ELECTION DISTRICT: NO. 5

GRAPHIC SCALES

0 1500' 3000'
SCALE: 1" = 1500'

0 200' 400'
SCALE: 1" = 200'

SIGNATURE

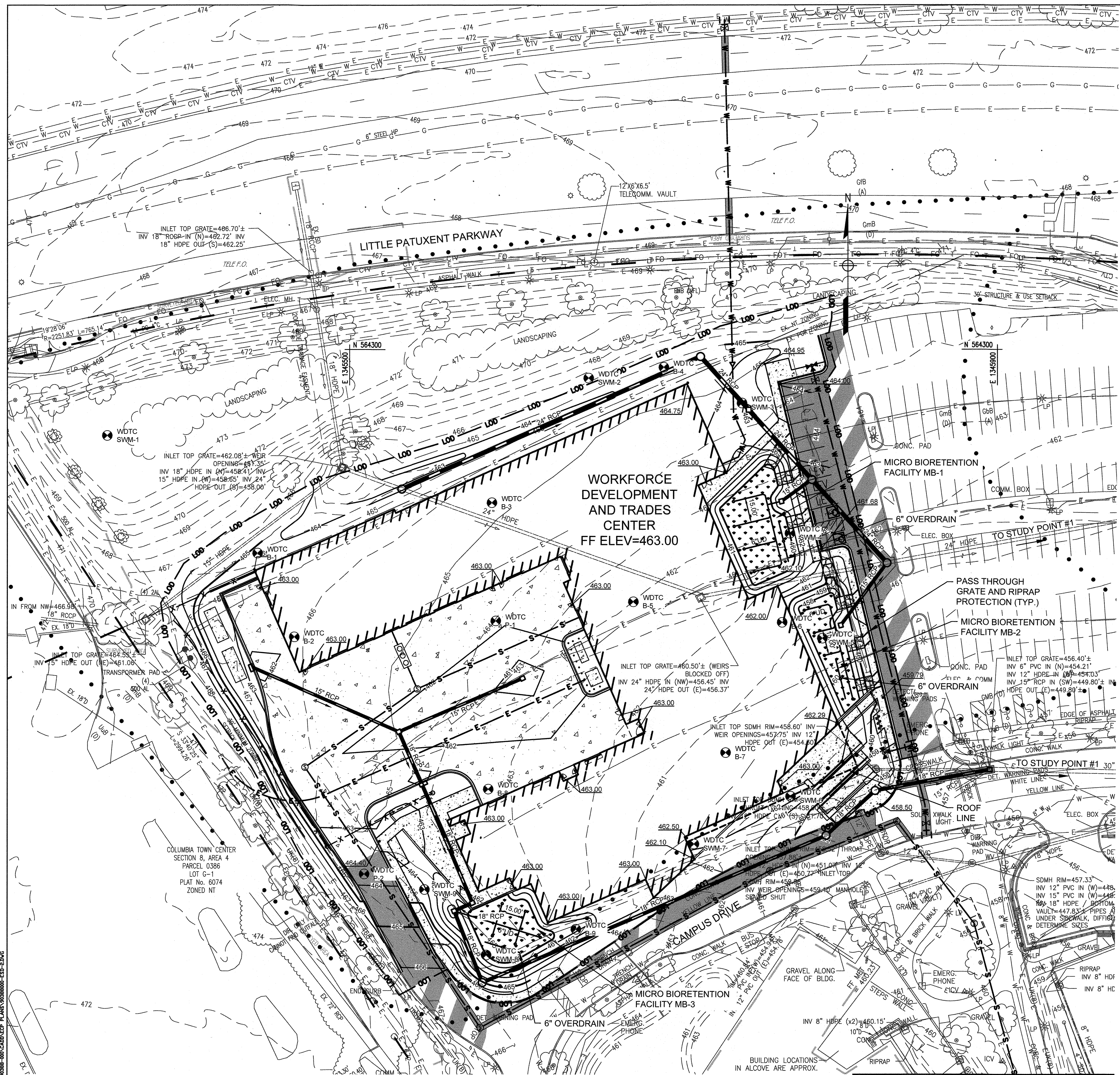
PROFESSIONAL CERTIFICATION.
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
EXPIRATION DATE: 09/22/2025

Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

COVER SHEET

DRAWING NO.
ESD-1

SCALE: AS SHOWN
DATE: 6/26/2024 SHEET 1 OF 6
DES: AKC DRAWN: AKC CHECK: BWJ



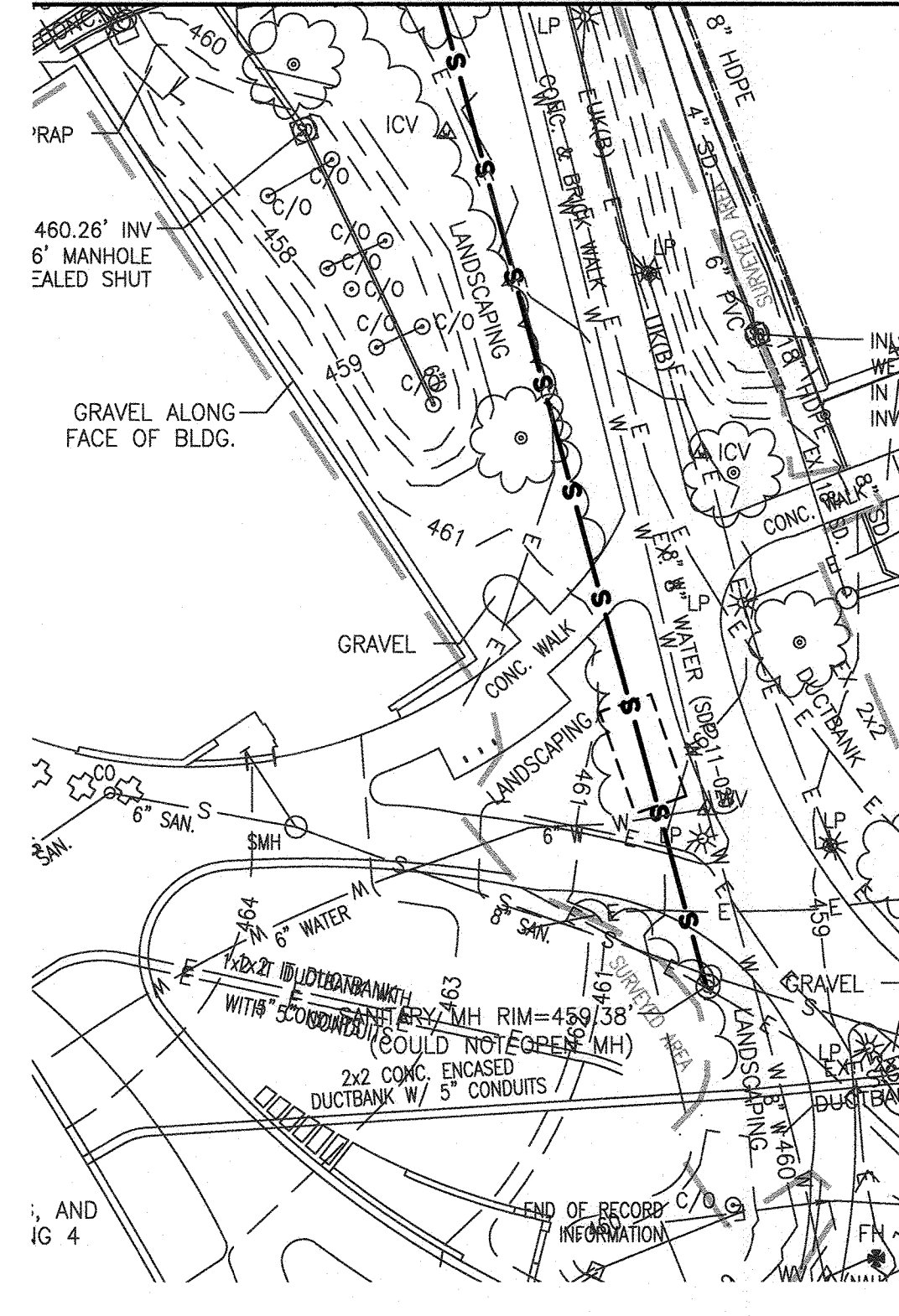
ENVIRONMENTAL CONCEPT PLAN
SCALE: 1"=30'

MATCH LINE - SEE THIS SHEET

LEGEND

- PROPERTY LINE
- EX. NT ZONING
- EX. POR ZONING
- ZONING LINE
- SETBACK
- EASEMENT
- STORM DRAIN
- WATER
- 6" PVC
- 114
- 115
- LOD
- LOW
- ▨ BUILDING FOOTPRINT
- ▨ BUILDING ROOF LINE
- ▨ ASPHALT PAVING
- ▨ MILL AND OVERLAY
- ▨ CONCRETE HEAVY DUTY PAVING
- ▨ CONCRETE PAD/SIDEWALK
- ▨ SWM FACILITY
- SANITARY MANHOLE
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- ⊙ SOIL BORING
- EXISTING TREELINE
- EXISTING TREE
- ▭ PASS THROUGH GRATE AND RIPRAP PROTECTION (TYPICAL DIMENSIONS)
- ▭ OILWATER SEPARATOR

MATCH LINE - SEE THIS SHEET



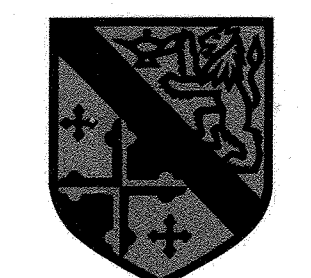
APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad E. Schuman
7/11/24
DATE
Julia Sauer
7/19/24
DATE

REVISIONS

| NO. | DESCRIPTION |
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OWNER/DEVELOPER



HOWARD
COMMUNITY COLLEGE

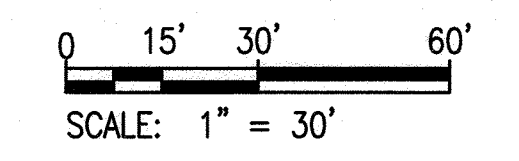
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COLUMBIA, MD 21044
443-518-1000

WORKFORCE DEVELOPMENT AND TRADES CENTER

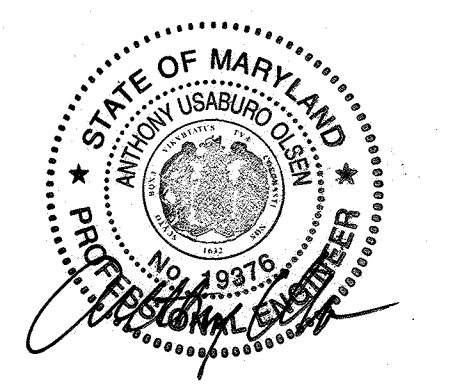
PROPERTY

TAX MAP: 35
GRID: 6
PARCEL: 47
ZONING: POR & NT
ELECTION DISTRICT: NO. 5

GRAPHIC SCALES



SIGNATURE



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EXPIRATION DATE: 09/22/2025



Whitman, Reardon & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-8716

ENVIRONMENTAL CONCEPT PLAN

DRAWING NO.

ESD-2

SCALE: 1"=30'
DATE: 6/26/2024 SHEET 2 OF 6
DES: AKC DRAWN: AKC CHECK: BWJ



EXISTING DRAINAGE AREA MAP
SCALE: 1"=80'

| Soil Symbol | HSG | Soil Description |
|-------------|-----|--|
| GmB | D | Glenview silt loam, 3 to 8 percent slopes |
| GbB | A | Gladstone loam, 3 to 8 percent slopes |
| UuB | D | Urban land-Udorthents, 0 to 8 percent slopes |
| GfB | A | Gladstone loam, 8 to 15 percent slopes |
| BaA | D | Baile silt loam, 0 to 3 percent slopes |
| GbC | A | Gladstone loam, 8 to 15 percent slopes |

| EXISTING DRAINAGE AREA IMPERVIOUS AREA | | | | | | | | | |
|--|-------|----------------------------------|------|---|---------------------------------|------|------------------------------|------|---|
| EXISTING OVERALL DRAINAGE AREA | | EXISTING OVERALL IMPERVIOUS AREA | | EXISTING OVERALL IMPERVIOUS AREA PERCENTAGE | LIMIT OF DISTURBANCE (LOD) AREA | | EXISTING LOD IMPERVIOUS AREA | | EXISTING LOD IMPERVIOUS AREA PERCENTAGE |
| SF | AC | SF | AC | | SF | AC | SF | AC | |
| 700,073 | 16.07 | 399,947 | 9.18 | 57.13% | 126,741 | 2.91 | 92,878 | 2.13 | 73.28% |

DRAINAGE LEGEND

- EXISTING DRAINAGE DIVIDE
- SOIL DIVIDE AND SOIL LABEL
- MINOR EXISTING CONTOUR (1-FT)
- MAJOR EXISTING CONTOUR (5-FT)
- PROPERTY BOUNDARY
- LIMIT OF WORK
- SWM LIMIT OF DISTURBANCE
- OVERALL EXISTING IMPERVIOUS AREA OUTSIDE THE LOD
- EXISTING IMPERVIOUS AREA INSIDE THE LOD, (BASIS OF SWM CALCULATIONS)
- DRAINAGE STUDY POINT

| REVISIONS | |
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OWNER/DEVELOPER

HOWARD
COMMUNITY COLLEGE

10901 LITTLE PATUXENT PARKWAY
COLUMBIA, MD 21044
443-518-1000

WORKFORCE DEVELOPMENT AND TRADES CENTER

PROPERTY

TAX MAP: 35
GRID: 6
PARCEL: 47
ZONING: POR & NT
ELECTION DISTRICT: NO. 5

GRAPHIC SCALES

SCALE: 1" = 80'

SIGNATURE

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OVERALL DRAINAGE AREA MAP
EXISTING CONDITIONS

DRAWING NO.
ESD-3

SCALE: 1"=80'

DATE: 6/26/2024 SHEET 3 OF 6

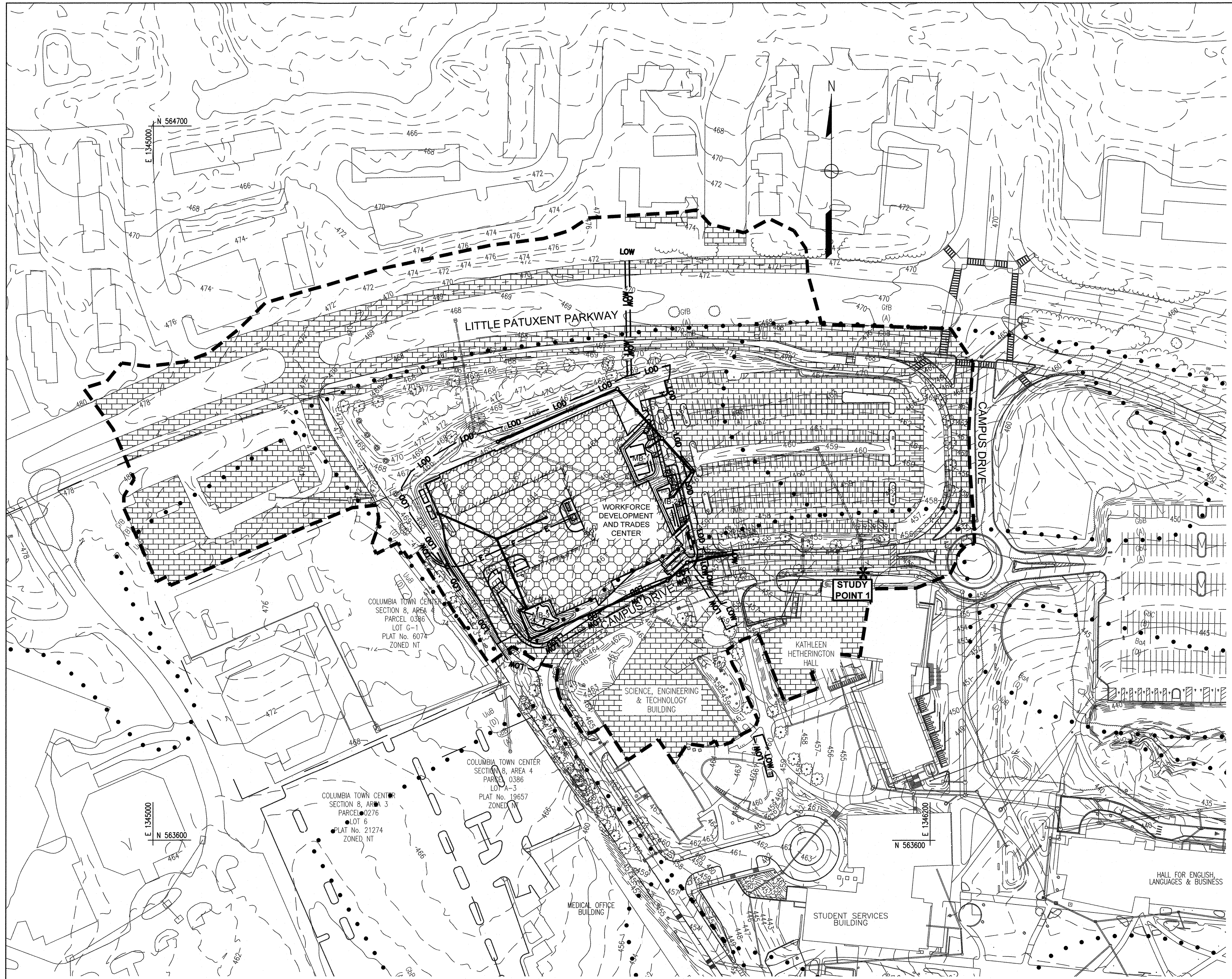
DES: AKC DRAWN: AKC CHECK: BWJ

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DATE: 7-11-24

DATE: 7/19/24

FILENAME: I:\90088-000\CADD\CDP PLANS\90088000-ESD-3.DWG



PROPOSED DRAINAGE AREA MAP
SCALE: 1"=80'

| Soil Symbol | HSG | Soil Description |
|-------------|-----|--|
| GmB | D | Glennville silt loam, 3 to 8 percent slopes |
| GbB | A | Gladstone loam, 3 to 8 percent slopes |
| UuB | D | Urban land-Udorthents, 0 to 8 percent slopes |
| GfB | A | Gladstone loam, 8 to 15 percent slopes |
| BaA | D | Baile silt loam, 0 to 3 percent slopes |
| GbC | A | Gladstone loam, 8 to 15 percent slopes |

| PROPOSED DRAINAGE AREA IMPERVIOUS AREA | | | | | | | | | |
|--|-------|----------------------------------|------|---|---------------------------------|------|------------------------------|------|---|
| PROPOSED OVERALL DRAINAGE AREA | | PROPOSED OVERALL IMPERVIOUS AREA | | PROPOSED OVERALL IMPERVIOUS AREA PERCENTAGE | LIMIT OF DISTURBANCE (LOD) AREA | | PROPOSED LOD IMPERVIOUS AREA | | PROPOSED LOD IMPERVIOUS AREA PERCENTAGE |
| SF | AC | SF | AC | | SF | AC | SF | AC | |
| 700,073 | 16.07 | 394,517 | 9.06 | 56.35% | 126,741 | 2.91 | 87,584 | 2.01 | 69.10% |

DRAINAGE LEGEND

- PROPOSED DRAINAGE DIVIDE
- SOIL DIVIDE AND SOIL LABEL
- MINOR EXISTING CONTOUR (1-FT)
- MAJOR EXISTING CONTOUR (5-FT)
- PROPOSED MINOR CONTOUR (1-FT)
- PROPOSED MAJOR CONTOUR (5-FT)
- PROPERTY BOUNDARY
- LIMIT OF WORK
- SWM LIMIT OF DISTURBANCE
- OVERALL PROPOSED IMPERVIOUS AREA OUTSIDE THE LOD
- PROPOSED IMPERVIOUS AREA INSIDE THE LOD, (BASIS OF SWM CALCULATIONS)
- DRAINAGE STUDY POINT

| REVISIONS | |
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COMMUNITY COLLEGE

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443-518-1000

WORKFORCE DEVELOPMENT AND TRADES CENTER

PROPERTY

TAX MAP: 35
GRID: 6
PARCEL: 47
ZONING: POR & NT
ELECTION DISTRICT: NO. 5

GRAPHIC SCALES

SCALE: 1" = 80'

SIGNATURE

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EXPIRATION DATE: 09/22/2025

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Phone: 410-235-3450 Fax: 410-243-5716

OVERALL DRAINAGE AREA MAP PROPOSED CONDITIONS

DRAWING NO.
ESD-4

SCALE: 1"=80'

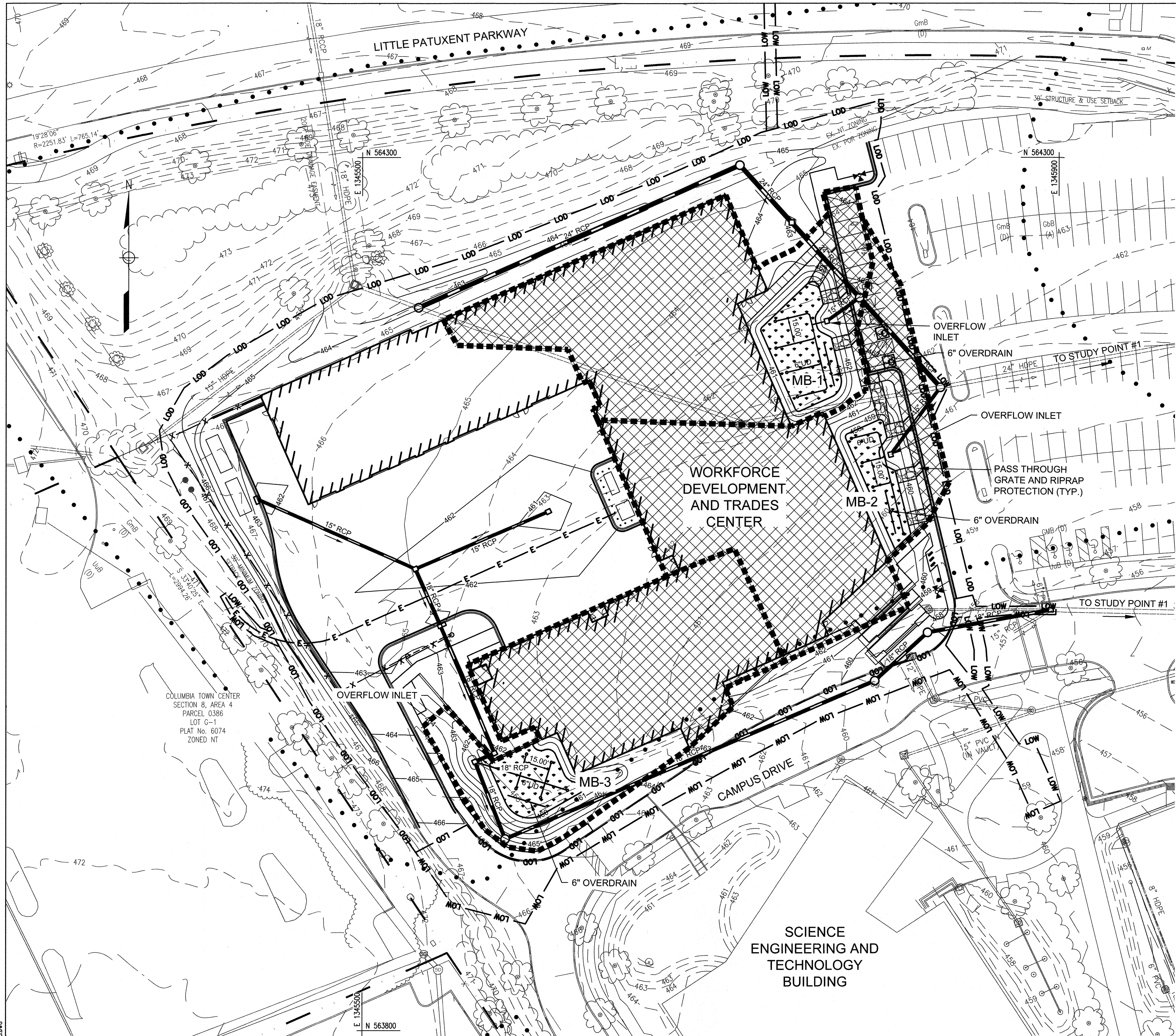
DATE: 6/26/2024 SHEET 4 OF 6
DES: AKC DRAWN: AKC CHECK: BWJ

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DATE: 7.11.24

DATE: 7/19/24

FILENAME: N:\90988-000-CADD\DCP PLANS\90988000-ESD-4.DWG



ENVIRONMENTAL SITE DESIGN DRAINAGE AREA MAP
SCALE: 1"=30'


DRAINAGE LEGEND

- ESD DRAINAGE DIVIDE
- SOIL DIVIDE
- - - - - EX. MINOR CONTOUR (1-FT)
- EX. MAJOR CONTOUR (5-FT)
- MINOR CONTOUR (1-FT)
- MAJOR CONTOUR (5-FT)
- PROPERTY BOUNDARY
- LOD --- SWM LIMIT OF DISTURBANCE
- LOW --- LIMIT OF WORK
- [Cross-hatched] ESD TREATED IMPERVIOUS AREA
- [Dotted] STORMWATER MANAGEMENT ESD FACILITY
- [Hatched] BUILDING FOOTPRINT
- 15" RCP --- STORM DRAIN
- STORM DRAIN INLET
- STORM DRAIN MANHOLE
- [Symbol] PASS THROUGH GRATE AND RIPRAP PROTECTION (TYPICAL DIMENSIONS)

| Soil Symbol | HSG | Soil Description |
|-------------|-----|--|
| GmB | D | Glenville silt loam, 3 to 8 percent slopes |
| GbB | A | Gladstone loam, 3 to 8 percent slopes |
| UuB | D | Urban land-Udorthents, 0 to 8 percent slopes |
| GfB | A | Gladstone loam, 8 to 15 percent slopes |

| REVISIONS | |
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| | |
| | |
| | |

OWNER/DEVELOPER



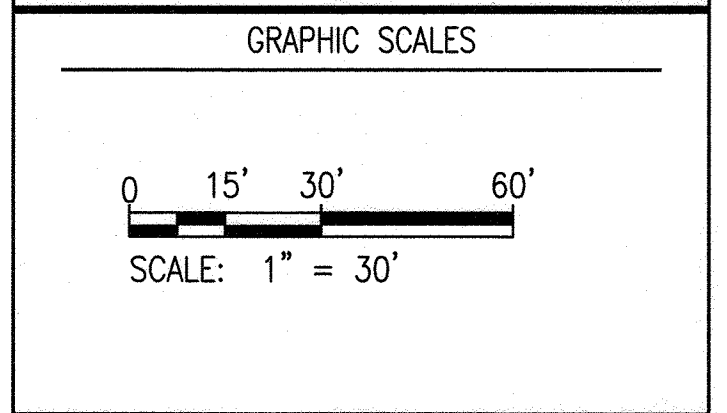
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COMMUNITY COLLEGE

10901 LITTLE PATUXENT PARKWAY
COLUMBIA, MD 21044
443-518-1000

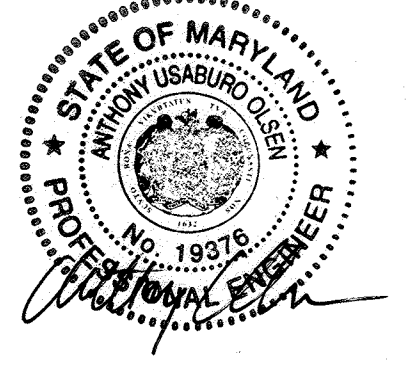
WORKFORCE DEVELOPMENT AND TRADES CENTER

PROPERTY

TAX MAP: 35
GRID: 6
PARCEL: 47
ZONING: POR & NT
ELECTION DISTRICT: NO. 5



SIGNATURE



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EXPIRATION DATE: 09/22/2025



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Phone: 410-235-3450 Fax: 410-243-5716

ESD DRAINAGE AREA MAP

DRAWING NO.

ESD-5

SCALE: 1"=30'

DATE: 6/26/2024 SHEET 5 OF 6

DES: AKC DRAWN: AKC CHECK: BWJ

| HOWARD COMMUNITY COLLEGE WDTC | | | | | | | | | | | |
|-------------------------------|--------------------|--------|-----|------|-----------|---------|-------------|-----------|----|-------|----|
| ESDv PROVIDED SUMMARY | | | | | | | | | | | |
| FACILITY | DESCRIPTION | DA | HSG | %IMP | TARGET Pe | Pe PROV | Target ESDv | ESDv PROV | | | |
| MB-1 | MICRO BIORETENTION | 20,380 | SF | D | 79% | 2.4 | IN | 1,272 | CF | 3,075 | CF |
| MB-2 | MICRO BIORETENTION | 20,334 | SF | D | 84% | 1.4 | IN | 1,357 | CF | 1,879 | CF |
| MB-3 | MICRO BIORETENTION | 17,982 | SF | D | 70% | 2.2 | IN | 999 | CF | 2,222 | CF |
| Total ESDv Provided= | | | | | | | | | | 7,177 | CF |

| SITE ESDv REQUIREMENT | | | | | | | | | | | | | | | |
|---|------|--------------------------|------|----------------------------|-------|---------------------------|--------|--------------------------|--------|----------------------------|----------------------|-----------------|-------|-----------------------|--------------------------|
| LIMIT OF DISTURBANCE (EXCLUDING UTILITY WORK) | | EXISTING IMPERVIOUS AREA | | EXISTING IMPERVIOUS AREA % | | IMPERVIOUS AREA REDUCTION | | PROPOSED IMPERVIOUS AREA | | PROPOSED IMPERVIOUS AREA % | | TARGET Pe | Rv | ESDv REQUIREMENT (cf) | TOTAL ESDv PROVIDED (cf) |
| SF | AC | SF | AC | % | SF | AC | SF | AC | % | INCHES | Rv=0.05 + 0.009 x %I | (Pe)(Rv)(DA)/12 | | | |
| 126,741 | 2.91 | 92,878 | 2.13 | 73.28% | 5,294 | 0.12 | 87,584 | 2.01 | 69.10% | 1.0 | 0.67 | 7,097 | 7,177 | | |

APPROVED: DEPARTMENT OF PLANNING AND ZONING

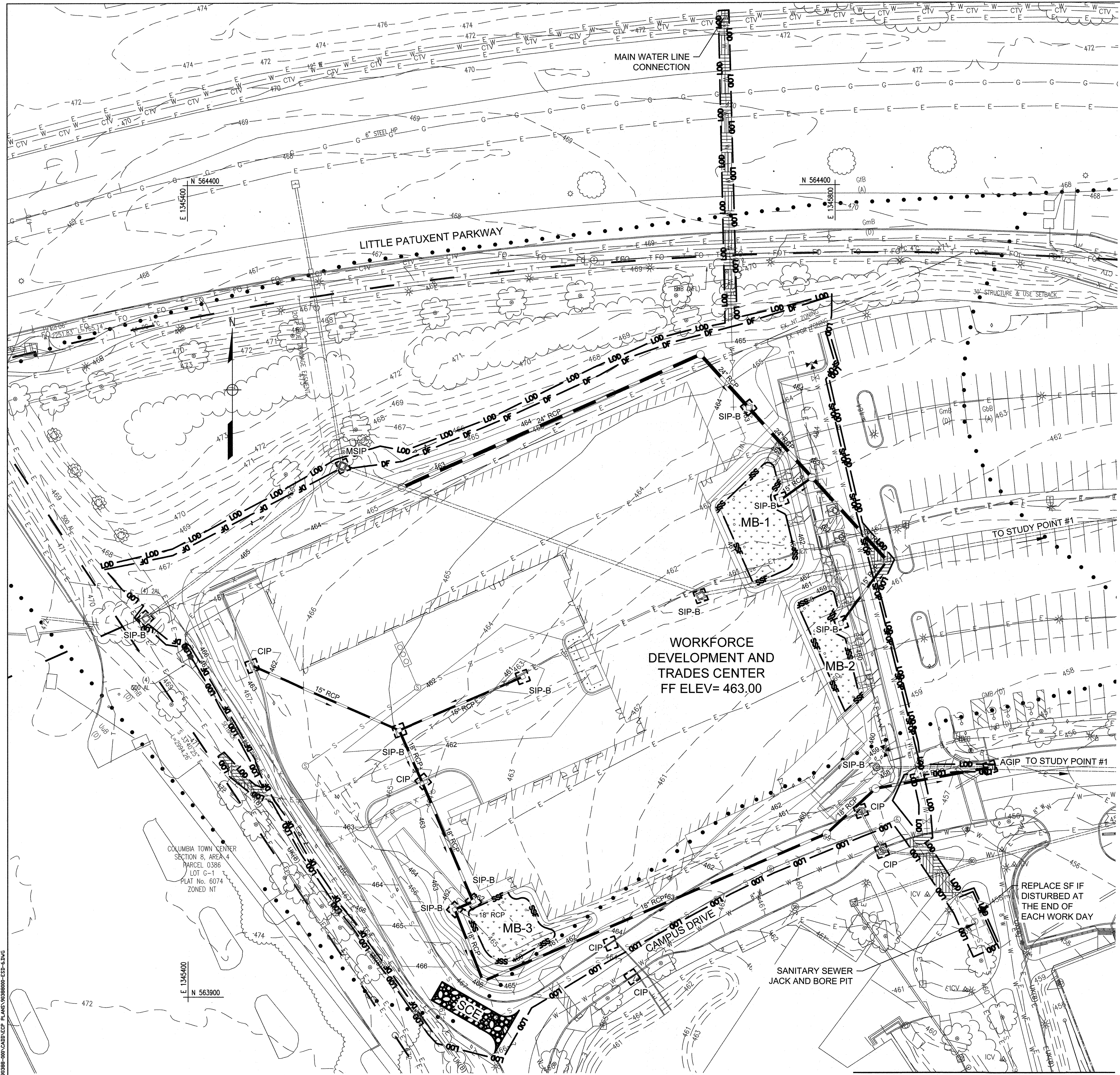
Chad Clark
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Julia Sam
CHIEF, DIVISION OF LAND DEVELOPMENT

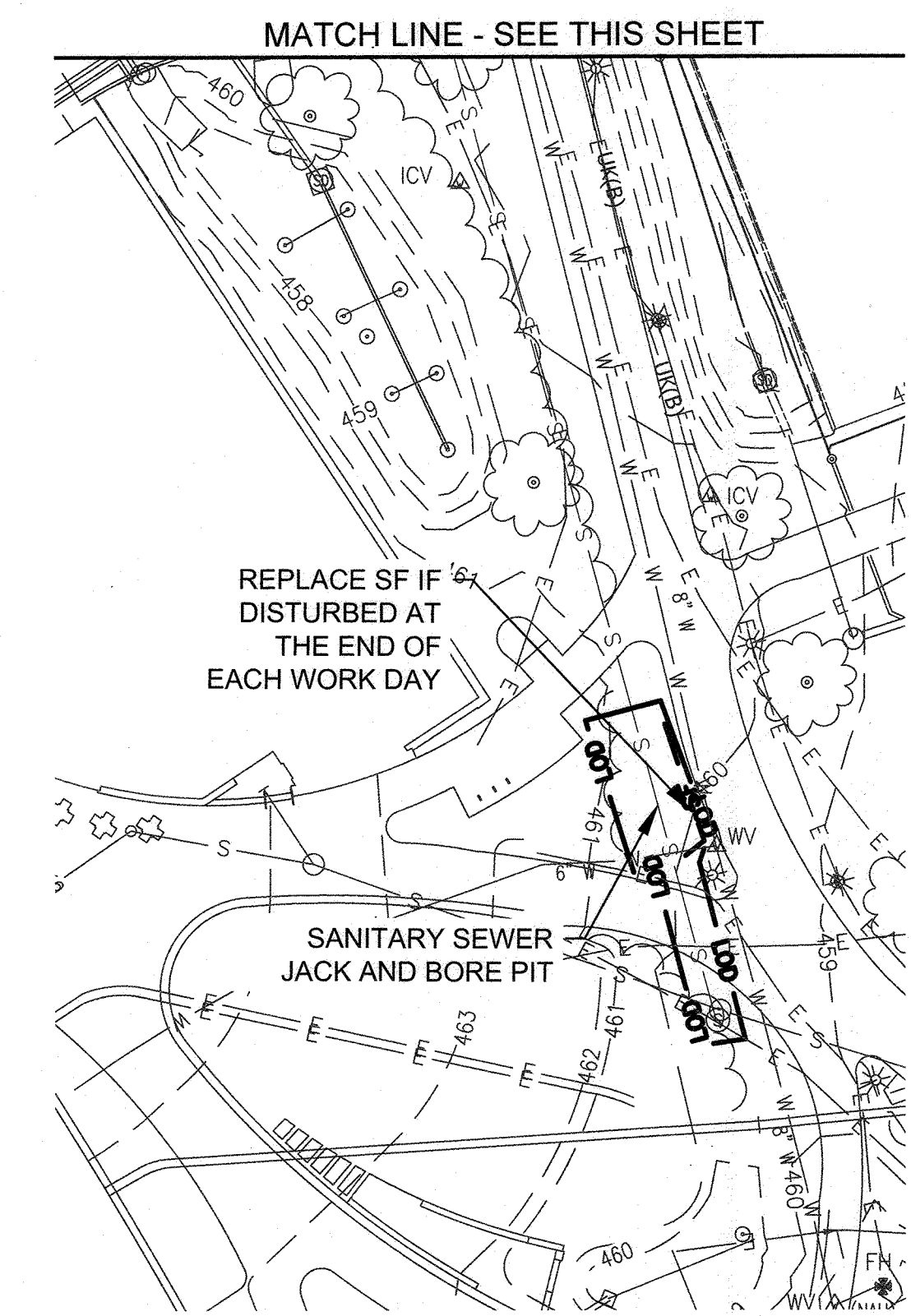
DATE: 7.11.24

DATE: 7/19/24

FILENAME: W:\50886-000\CADD\CDP PLANS\50886000-ESD-5.DWG



CONCEPT EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1"=30'



LEGEND

- LOD** SEDIMENT CONTROL LIMIT OF DISTURBANCE
- SFOP** SILT FENCE ON PAVEMENT
- SSF** SUPER SILT FENCE
- SF** SILT FENCE
- DF** DIVERSION FENCE
- SAME DAY STABILIZATION
- INLET PROTECTION
- SCE** STABILIZED CONSTRUCTION ENTRANCE
- DIVERSION FENCE FLOW ARROWS

STANDARD STABILIZATION NOTE

"SAME-DAY STABILIZATION" MEANS AN EROSION/SEDIMENT CONTROL PROCEDURE IN WHICH THE WORK AREA IS STABILIZED BY THE END OF THE WORK DAY OR WITHIN A 24-HOUR PERIOD FOR AROUND THE CLOCK CONSTRUCTION.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] DATE: 7.11.24
 CHIEF DEVELOPMENT ENGINEERING DIVISION
[Signature] DATE: 7/9/24
 CHIEF DIVISION OF LAND DEVELOPMENT

| REVISIONS | |
|-----------|--|
| | |
| | |
| | |
| | |

OWNER/DEVELOPER

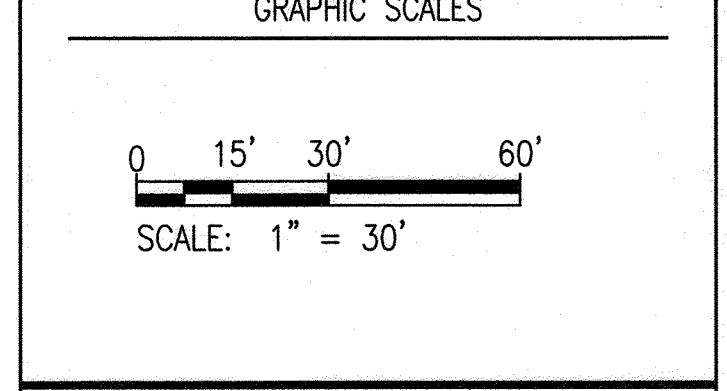
HOWARD
COMMUNITY COLLEGE

19091 LITTLE PATUXENT PARKWAY
COLUMBIA, MD 21044
443-518-1000

WORKFORCE
DEVELOPMENT AND
TRADES CENTER

PROPERTY

TAX MAP: 35
GRID: 6
PARCEL: 47
ZONING: POR & NT
ELECTION DISTRICT: NO. 5



SIGNATURE

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. 19376
EXPIRATION DATE: 09/22/2025

Whitman, Reardon & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

CONCEPT EROSION AND SEDIMENT CONTROL PLAN

DRAWING NO.

ESD-6

SCALE: 1"=30'

DATE: 6/26/2024 SHEET 6 OF 6

DES: AKC DRAWN: AKC CHECK: BWJ

FILENAME: N:\92086-00\CADD\CEP PLANS\9208600-ESD-6.DWG