ENVIRONMENTAL CONCEPT PLAN HOWARD COMMUNITY COLLEGE

FOREST CONSERVATION

EASEMENT AREA EL

PLAT NO. 16125

LIBRARY

SCIENCE

TECHNOLOGY

BUILDING F

ENVIRONMENTAL

BUTTER AREA

CONSERVATION

EASEMENT AREA J

-PLAT NO 19050-

HALL FOR ENGLISH

PATRICK AND JILL

EASEMENT AREA HI-

THEA FOREST CONSERVATION

FOREST CONSERVATION

EASEMENT AREA III

ATHLETIC &

FITNESS

CENTER

ARTS CENTER

OFFICE BUILDING

HICKORY RIDG

BUILDING

.ANGUAGES & BUSINESS

5 85'0'40' E

PROPOSED HEALTH SCIENCE BUILDING 5TH ELECTION DISTRICT HOWARD COUNTY, MD

AREAS OF PROPOSED NORK

FOREST CONSERVATION

EASEMENT AREA 'D'

PLAT NO. 16125

ENVIRONMENTAL

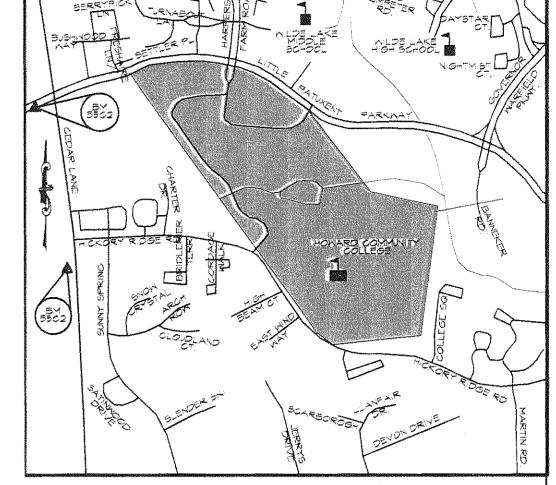
BUFFER AREA

FOREST CONSERVATION

FOREST CONSERVATION

EASEMENT AREA "A-1" PLATNO! 19050

BENCHMARK DATA HORIZONTAL NAPOSAMI AND VERTICAL (NEVERS) CONTROL BASED ON CONTROL BASED ON CONTROL BASED ON CONTROL BASED ON 35C2 HON 68 MON 565920 454304 472 464 155



VICINITY MAP

SCALE I" = 1000' ADC MAP COORDINATES: 15-D6

INDEX OF DRAWINGS

- OVERALL EXISTING IMPERVIOUS AREA MAP EXISTING CONDITIONS SITE LOD / IMPERVIOUS AREA MAP

PROPOSED CONDITIONS SITE LOD / IMPERVIOUS AREA MAP CONCEPTUAL ENVIRONMENTAL SITE DESIGN PLAN CONCEPTUAL EROSION & SEDIMENT CONTROL PLAN

SITE ANALYSIS DATA SHEET

1. SITE ADDRESS: 10901 LITTLE PATUXENT PKWY
COLUMBIA, MD 21044

2. OWNER/APPLICANT: BOARD OF TRUSTEES OF

HOWARD COUNTY COMMUNITY COLLEGE

3. TAX ACCOUNT NO.: 15-045868

4. PROPERTY REFERENCE: MAP 35

PLAT 16125 BLOCK 6 LOT 47, PARCEL B ELECTION DISTRICT NO.5

EXISTING USE:

PARKING LOT PROPOSED USE: EDUCATIONAL BUILDING

6. AREA OF TOTAL SITE: 117.85 ACRES

TOTAL PROJECT AREA, 6.34 ACRES

PROPOSED IMPERVIOUS AREA WITHIN THE LOD = 5.55 AC.

PROPOSED OPEN SPACE WITHIN THE LOD = 2.49 AC.

THERE ARE NO WETLANDS, FLOOD PLAINS, FOREST CONSERVATION,

FOREST CONSERVATION OBLIGATIONS FOR THE ENTIRE COMMUNITY COLLEGE CAMPUS WERE ADDRESSED UNDER SOP-OI-58 AND REVISED UNDER SDP-03-156 (PLAT NO'S 16125, AND 16126; DELETING FOREST CONSERVATION EASEMENT 'G'). PARTS OF FOREST CONSERVATION EASEMENTS 'A', 'B', 'C' AND 'U' WERE ABANDONED (56,950 SQ. FT.) AND PAYMENT OF ABANDONMENT FEE MADE UNDER F-07-10 (PLAT NO'S 19049, 19050 AND 19051).

APPROVAL OF THIS PLAN IS FOR EROSION & SEDIMENT CONTROL YEASURES ONLY. ALL COUNTY AND STATE REQUIREMENTS FOR development on this site and compliance with applicable SUBDIVISION AND ZONING REGULATIONS WILL BE FURTHER REVIEWED UNDER THE APPROPRIATE SUBDIVISION AND/OR SITE DEVELOPMENT PLAN SUBMISSION.

LEGEND

EX. SANITARY MANHOLE EX. STORM DRAIN MANHOLE

EX, ELECTRIC MANHOLE

EX. LIGHT POLE

EX. WATER METER

EX. SIGN

EX. UTILITY POLE

EX. BOLLARD POST

EX. DECIDIOUS TREE

EX. CONIFEROUS TREE

EX. GAS VALVE EX. GUY WIRE

EX. WATER YALVE

EX. FIRE HYDRANT

EX. CLEANOUT EX. PLANTING AREA

ex. Electric box

EX. STORM PIPE

EX. SANITARY PIPE

FOREST CONSERVATION

ENVIRONMENTAL BUFFER AREAS

PROPERTY LINE

AYERS

SAIN

ARCHITECTS + PLANNERS

1040 Hull Street, Suite 100

Baltimore, MD 21230 p.410.347.8500 f.410.347.8419

Rev: Date: Description: By: | Prepared For and Owner: APPROVED: Howard County Department of Planning & Zoning Howard Community College 10901 Little Patuxent Parkway Columbia, Maryland 21044 Chief, Division of Land Development and See

LOCATION MAP

ELECTION DISTRICT NO.5

Howard Community College
Health Sciences Building **ENVIRONMENTAL CONCEPT PLAN**

PARCEL 47, TAX MAP 35, GRID 6 TAX ACCOUNT # 045868 HOWARD COUNTY, MARYLAND Tax Map-Grid: 35-6

15 NOV 2010 1" = 200' Designed By: SMC GAH / FTK Approved By: RLB Project No: 20961

N 561,750

FOREST

CONSERVATION

EASEMENT AREA 'C-T'

PLAT NO. 19050

Sheet Title: **ENVIRONMENTAL CONCEPT PLAN** TITLE SHEET

EXPIRATION DATE: 11/21/12. OF MARL

CONAL EN 12-6

SHEET 1 OF 6 ECP-1

STORMWATER MANAGEMENT APPROACH THE "STORMWATER MANAGEMENT ACT OF 200T" REQUIRES THE IMPLEMENTATION OF AN ENVIRONMENTAL SITE DESIGN TO THE MAXIMUM EXTENT PRACTICAL, ENVIRONMENTAL SITE DESIGN TECHNIQUES PROMOTE GROUNDWATER RECHARGE BY TARGETING RUNOFF CHARACTERISTICS TO MIMIC WOODS IN A GOOD CONDITION AFTER DEVELOPMENT OF THE SITE NATURAL RESOURCES: THE PROPOSED HEALTH SCIENCES BUILDING, ON THE HOWARD COMMUNITY COLLEGE CAMPUS WILL BE PLACED IN A PRE-DEVELOPED AREA THAT IS CURRENTLY BEING USED AS A PAYED PARKING LOT. SELECTION OF THIS SITE FOR THE PROPOSED IMPROVEMENTS PRESERVES NATURAL FEATURES SUCH AS STREAMS AND WOODLANDS THAT EXIST ON THE CAMPUS. ALTHOUGH THE PROJECT PROPOSES MINIMAL ENCROACHMENT INTO A WOODED AREA PROTECTIVE MEASURES ARE BEING PROPOSED TO PRESERVE THE EXISTING WOODS. INDIVIDUAL TREES WERE LOCATED AND INDENTIFIED. TREE REMOVAL WILL ONLY OCCUR IN AREAS WHERE IT 5 ABSOLUTELY NECESSARY FOR THE EFFECTIVE DEVELOPMENT OF THE SITE. RETAINING WALLS ARE BEING PROPOSED AS A PROTECTIVE MEASURE TO PRESERVE THE MOODED AREA. NO STEEP SLOPES, WETLANDS, FLOODPLAINS, STREAMS, ETC. WILL BE IMPACTED BY THIS PROJECT WITURAL FLOW PATTERNS: EXISTING DRAINAGE PATTERNS WILL REMAIN UNCHANGED IN THE PROPOSED CONDITION. A LOSED STORM DRAIN SYSTEM CURRENTLY CONVEYS FLOWS THROUGH THE SITE TO AN EXISTING STREAM WEST OF THE SITE. A PORTION OF THIS STORM DRAIN WILL BE RELOCATED TO ACCOMMODATE THE NEW BUILDING FOOTPRINT, HOWEVER THE EXISTING OUTFALL WILL REMAIN ADISTURBED. SINCE THE OVERALL DRAINAGE AREA TO THE CLOSED SYSTEM REMAINS ANCHANGED AND THE PROPOSED IMPROVEMENTS REDUCE THE EXISTING IMPERVIOUS AREA NITHIN THE LOD. FOR THE PROJECT BY APPROXIMATELY I PERCENT, DISCHARGES AT THE JUTFALL TO THE EXISTING STREAM WILL DECREASE. HEET FLOW FROM OPEN SECTION WALKWAYS, GRASS BUFFER AREAS AND ALTERNATIVE JURFACES ARE ELEMENTS THAT HAVE BEEN INCLUDED IN THE SITE DESIGN TO ENHANCE WATER JUALITY TREATMENT, REQUIREMENTS FOR THE NON-ROOFTOP DISCONNECT CREDIT HAVE BEEN LET BY APPROXIMATELY 13,000 SQUARE FEET OF IMPERVIOUS WALKWAY AREA. POROUS JONGRETE PAVEMENT IS BEING PROPOSED FOR USE IN A LOADING AREA, TRAFFIC CIRCLE AND A WALKWAY AT THE EASTERN LOT STUDENT DROP OFF AREA, ALL TOTALING 6038 S.F. APPROXIMATELY 9,9485 S.F. OF IMPERVIOUS AREA IS BEING PROPOSED FOR TREATMENT BY THIS PRACTICE AND ANOTHER 4,793 S.F. IS BEING TREATED BY SIMILAR MEANS OF FILTERING THROUGH A LAYER OF PLANTING MEDIUM TO A STONE RESERVOIR. ALTHOUGH THE SOILS SHOWN WITHIN THE POROUS PAVEMENT AREAS ARE MOSTLY HSG 'D', THESE AREAS ARE LOCATED NEAR THE DIVIDING LINE BETWEEN HSG B' & 'C' SOILS. ADDITIONAL SOIL TESTING WILL BE REQUIRED TO DETERMINE IF ADEQUATE INFILTRATABLE MATERIAL IS AVAILABLE BENEATH THE PROPOSED POROUS CONCRETE AREAS TO SUPPORT THIS ALTERNATIVE SURFACE PRACTICE. EROSION & SEDIMENT CONTROL: A CONCEPTUAL EROSION & SEDIMENT CONTROL PLAN IS BEING PROVIDED TO DEMONSTRATE

THAT SEDIMENT CONTROL PRACTICES WILL BE PROVIDED TO EFFECTIVELY TREAT SEDIMENT LADEN RUNOFF DURING CONSTRUCTION WITHOUT IMPACTING THE MICRO-SCALE FACILITIES THAT ARE BEING PROPOSED FOR PERMANENT RUNOFF TREATMENT.

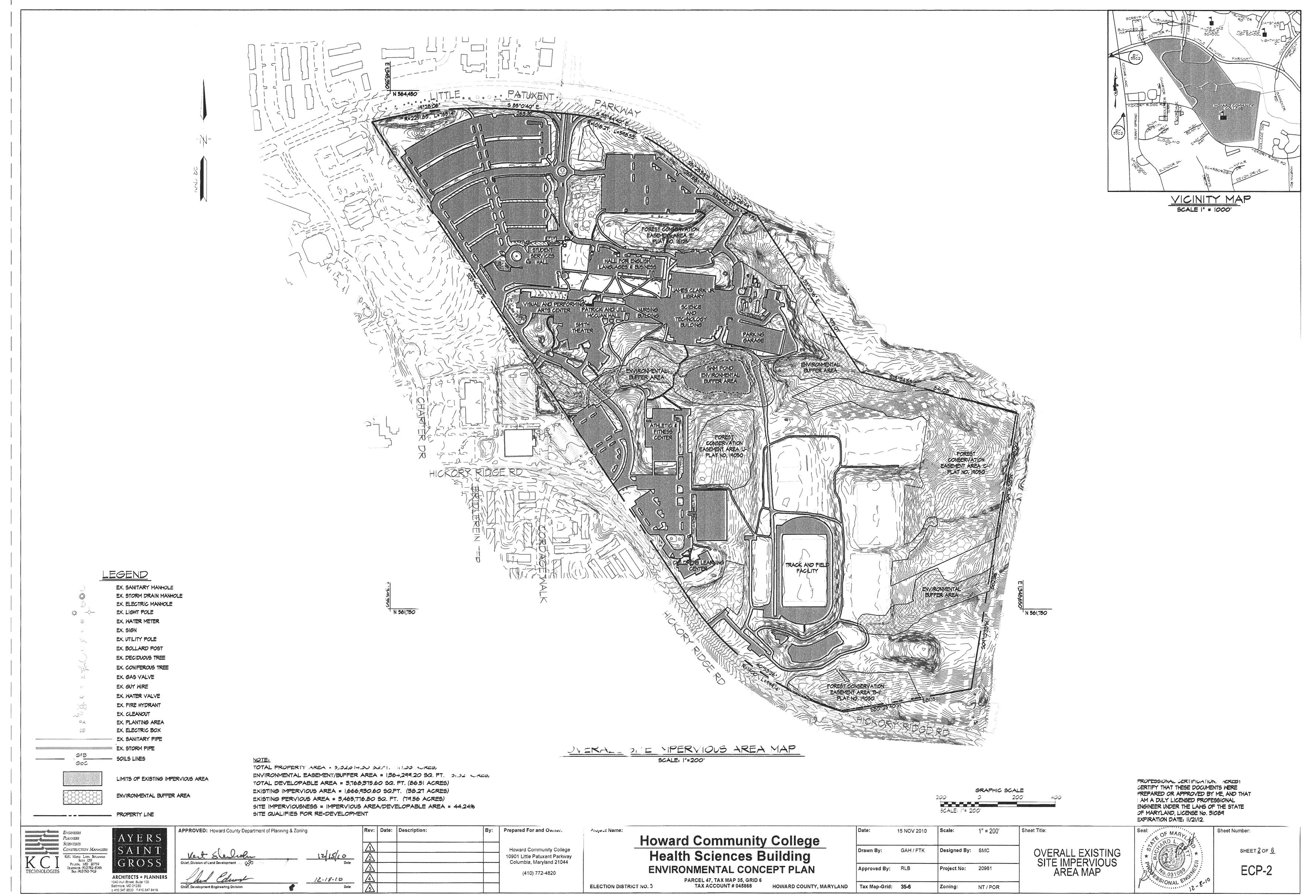
WATER AND BECOME A NJISANCE.

ESD PLANNING TECHNIQUES: ENVIRONMENTAL SITE DESIGN IS BEING ACHIEVED THROUGH THE APPLICATION OF ALTERNATIVE SURFACES, NON-STRUCTURAL PRACTICES AND MICRO-SCALE PRACTICES. MICRO-BIO-RETENTION FACILITIES ARE BEING PROPOSED TO CONTRIBUTE TO MEETING ESD VOLUME REQUIFTEMENTS FOR THE SITE. HYDROLOGIC SOIL GROUP 'D' SOILS LIMITED THE SELECTION OF MICRO-SCALE PRACTICES THAT COULD BE USED. BIO-RETENTION FACILITIES WERE SELECTED DUE TO THE

UNDER DRAIN SYSTEM THAT PROVIDES SOME ASSURANCE THAT THE FACILITIES WILL NOT RETAIN

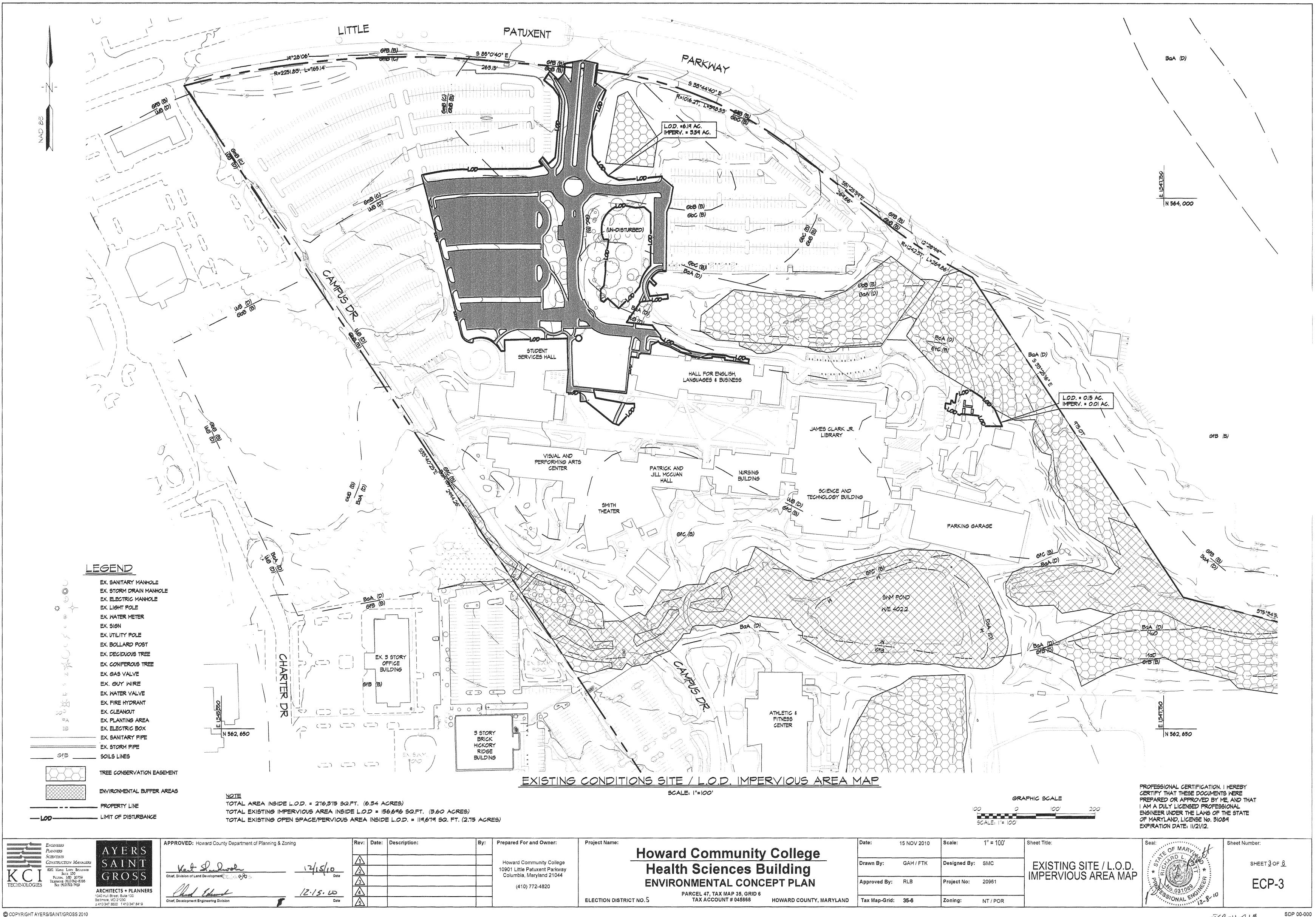
(IN FEET) 1 inch = 200 ft.

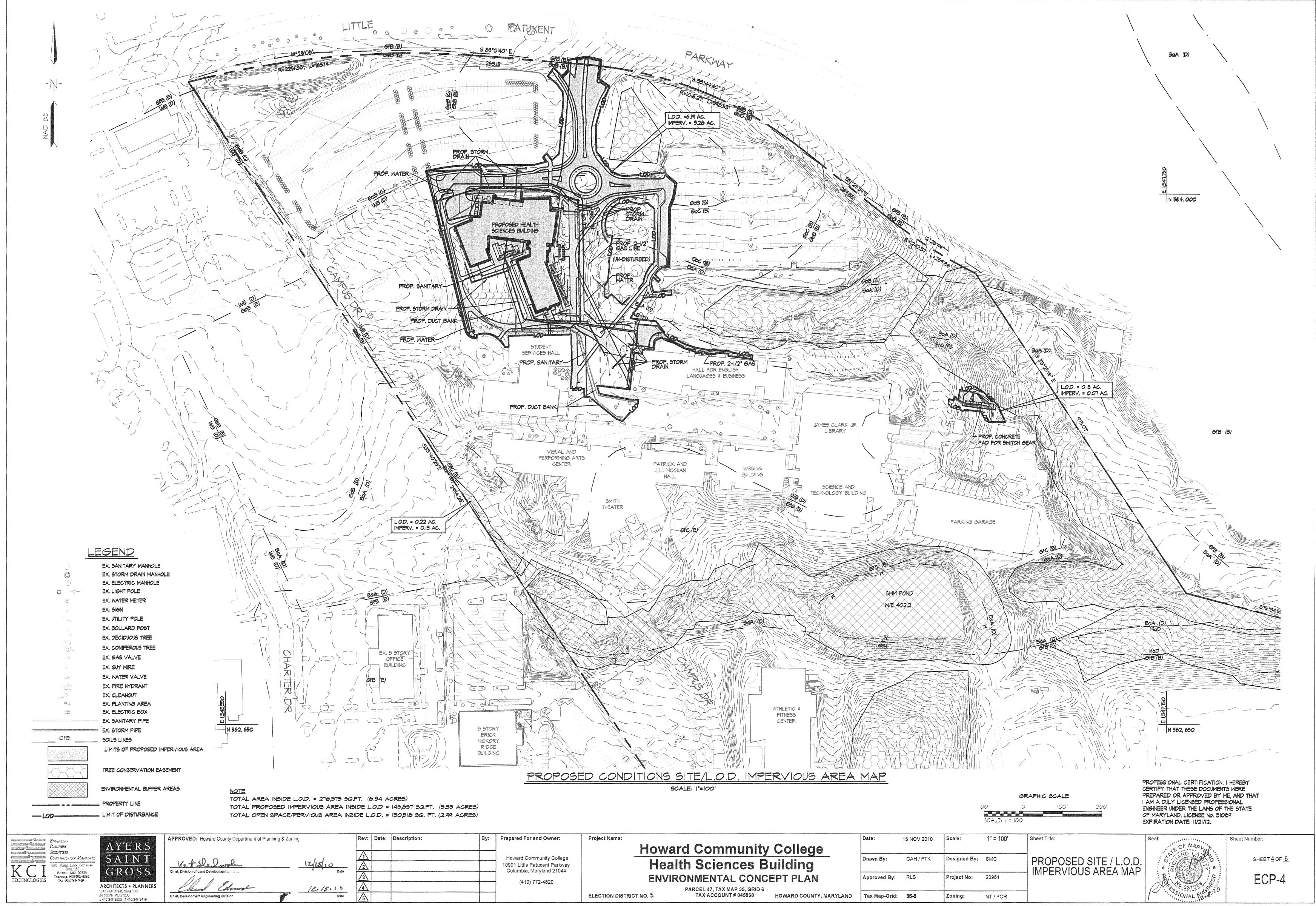
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Planners
Scientists
Construction Managers



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