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January 24, 2008

Mr. John FitzGerald
Project Manager
Boston Redevelopment Authority
One City Hall Square
Boston, MA 02201-1007

Re: Boston College Institutional Master Plan Notification Form /
Project Notification Form

Dear Mr. FitzGerald:

The Boston Water and Sewer Commission (Commission) has reviewed the Institutional Master Plan Notification Form / Project Notification Form (IMPNF / PNF) for Boston College. This letter provides the Commission's comments on the IMPNF / PNF.

The Master Plan presents plans for the physical development of Boston College's Chestnut Hill Center, University Center, and fine arts center, parking, student housing, and renovations of existing buildings are proposed.

The Commission has the following comments regarding the IMPNF:

General

storm drainage systems serve the campus and the water and sewer systems are adequate to meet future project demands. Evaluation of the capacity of existing systems on the campus to meet future project needs, and a discussion of any currently anticipated plans for any changes to these systems, must be provided in the Master Plan.

development must be designed and constructed at Boston College's expense and in accordance with the Commission's Sewer Use and Water Distribution System Regulations. Boston College must coordinate with the Commission



3. Boston College must submit site plans and General Service Applications to the Commission for individual construction projects as they are proposed. Site plans must include the locations of proposed water mains, sanitary sewers and storm drains serving project sites, as well as the locations of proposed service connections. Site plans must also provide a detailed and updated estimate of water demand, sanitary sewer flows and stormwater runoff generation for the proposed project. The amount of potable water required for landscape irrigation must be quantified and provided separately.

As plans progress and are finalized, the Commission will require drawings of public and private water, sewer and storm drainage systems. Boston College should submit drawings when project designs are 50 percent complete.

5. As plans progress and are finalized, the Commission will require drawings of public and private water, sewer and storm drainage systems. Boston College should submit drawings when project designs are 50 percent complete.
6. Requirements. Boston College must then complete a Termination Verification Approval Form for a Demolition Permit, available from the Commission, and submit the completed form to the City of Boston's Inspectional Services Department before a demolition permit will be issued.

7. Boston College should be aware that the US Environmental Protection Agency issued a draft Remediation General Permit (RGP) for Groundwater Remediation, Contaminated Construction Dewatering, and Miscellaneous Surface Water Discharges. If groundwater contaminated with petroleum products, for example, is encountered, Boston College will be required to apply for a RGP to cover these discharges.

Sewage / Drainage --

1. The Brighton campus is served by separate sewers and storm drains. Separate sanitary and storm drain services must be provided from new buildings constructed to the respective pipe in the street and on the campus.

2. Site plans must show how stormwater from building roofs and from other impervious areas will be managed. Roof runoff and other stormwater runoff must be conveyed separately from sanitary waste at all times.



The Department of Environmental Protection (DEP) in cooperation with the

Massachusetts Water Resources Authority (MWRA) and its member communities, are

implementing a combined approach to reduce infiltration/inflow (I/I)

in the system. In this regard, DEP has been routinely requiring proponents proposing to add significant new wastewater flow to assist in the I/I reduction effort to ensure that the additional wastewater flows are offset by the removal of I/I. Currently, DEP is typically using a minimum 4:1 ratio for I/I removal to new wastewater.

Boston College is required to develop a consistent inflow reduction plan.

4. Boston College must fully investigate methods for retaining stormwater on project sites

and not discharge additional stormwater to the

environment. A feasibility assessment for retaining stormwater on site must be submitted with each site plan.

5. The discharge of dewatering drainage to a sanitary sewer is prohibited by the

Commission. It is advised that the discharge of any construction site

Drainage Discharge Permit from the Commission and the Environmental Protection Agency (EPA).

6. Boston College is advised that a Drainage Discharge Permit is also required for the long term (permanent) discharge to a drainage system of infiltrated groundwater collected via an underdrain system, such as those that are commonly installed in below-grade parking garages.

7. For each phase of construction covering one acre or more, Boston College will be required to obtain coverage under the EPA's NPDES General Permit for Construction. A copy of the Notice of Intent and the pollution prevention plan prepared pursuant to the Permit should be provided to the Commission prior to the commencement of construction.

8. In conjunction with each site plan and General Service Application submitted, Boston College must submit to the Commission's Engineering Customer Service Department a detailed stormwater management plan. Each plan must:

identify best management practices for erosion and for preventing the discharge of sediment and contaminated groundwater or stormwater runoff to the



includes a site map which shows, at a minimum, existing drainage patterns and areas
construction.

pollutants in stormwater after construction is completed.

9. Any uncovered parking or paved areas that are built, require particle separators on all
drains that will collect the runoff from these areas. Specifications for particle separators
are provided in the Commission's Requirements for Site Plans.

10. The Commission requests that Boston College install a permanent casting station
"Don't Dump, Drain to Charles River" next to any catch basin installed. Boston
College should be responsible for the purchase of the castings.

11. The Commission encourages Boston College to explore additional opportunities for
reducing the use of deicing chemicals, pesticides, and fertilizers.

12. Oil traps are required on all drains discharging from all new and existing enclosed
parking garages. Discharges from garage drains must be directed to a building sewer and
not to a building storm drain. The requirement for oil traps are provided in the
Commission's Requirements for Site Plans.

13. Grease traps are required in all new and existing cafeteria or kitchen facilities in
accordance with the Commission's Sewer Use Regulations. Boston College is advised to
consult with Mr. Richard Fowler, Deputy Superintendent of Field Operations prior to
preparing plans for grease traps.

14. Boston College should note Article V of the Commission's Sewer Use Regulations as it
pertains to medical and laboratory facilities.

Water

Where a new water meter is needed, the Commission will provide a Meter
Transmitter Unit (MTU) and connect the device to the meter. For information regarding
the installation of MTUs, Boston College should contact the Commission's Meter
Installation Department.



measures in addition to those required by the State Plumbing Code. In particular, Boston College should consider outdoor landscaping which requires minimal use of water to contribute to water conservation. If Boston College plans to install in-ground sprinkler systems, the Commission recommends that timers, soil moisture indicators and rainfall sensors be installed. The use of sensor-operated faucets and toilets in common areas of buildings should also be considered.

Thank you for the opportunity to contribute to this project.

Yours truly,

John P. Sullivan, P.E.
Chief Engineer

JPS/cj

- c: T. Keady, Boston College
- J. Levesque, Boston College
- H. Muise, Vanasse Hangen Brustlin
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- K. Pedersen, BRA
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