

c. An as-built topographic plan signed and stamped by a professional land surveyor registered in Massachusetts to complete the public record. This plan will include as-built elevations of all drainage structures constructed within 100 feet of any wetland, distances to all structures and elevations within 100 feet of wetlands.

d.N/A A letter from a qualified wetland scientist certifying compliance with state regulations is also required for all wetland replication or restoration areas. Wetland replication areas shall be in-kind replication, i.e., forested to forested or shrub to shrub or meadow to meadow, etc., and be built to function in the same way that the filled area functioned. Replication areas shall be monitored through two growing seasons to achieve the standards required.

27. Prior to the commencement of construction, applicant shall have in hand all other required City permits, including, but not limited to, Building, Street Opening, Sidewalk Crossing and Utility Connection permits. Should the approved plans change as a result of the issuance of other permits, the Commission shall be notified and a new plan presented for review prior to commencement of construction.

28. The storage of materials and sediment in the floodplain is prohibited. All dumpsters, piles of lumber, pipe and other materials shall take place outside of the floodplain. All stockpiled soils shall be located outside of the floodplain and appropriate erosion controls must be applied to ensure that sediments do not erode or blow into the wetland resource area.

Order of Conditions/B - Newton Special Conditions

29. Conditions have been incorporated into the plan to try to ensure that crumb rubber cannot migrate into the adjacent bordering vegetated wetland (or into the storm drain system) in any quantity. The applicant has incorporated in-line catch basins with sumps along the entire length of the proposed trench drain. The applicant and Environmental Planner together shall inspect the trench drain and in-line catch basins every 6-months for a period of 18-months for rubber granules. If rubber granules are found, the rubber granules will be removed and placed back within the limits of the synthetic turf field.

The applicant has also incorporated vinyl screening on the proposed 4' high chain link fence in proximity of the bordering vegetated wetland. The applicant and Environmental Planner shall together inspect the vinyl screening every 6-months for a period of 18-months for rubber granules. If rubber granules are found, these rubber granules will be removed and placed back within the limits of the synthetic turf field.

If rubber granules are found within the trench drain and/or at the base of the vinyl screen, the Commission may require that testing shall be done along the wetland line at 6-month periods for a period of 18 months to detect rubber granules. If rubber granules are detected, the applicant shall take steps satisfactory to the Commission to further prevent the rubber granules from reaching the wetland.

30. The applicant shall perform an EPA approved lead wipe test on the installed synthetic turf to determine the amount of lead dust or bio-availability of the lead in the specified products. Lead wipe tests are performed to determine the amount of lead that can be transferred by touch from hand to mouth. The synthetic turf products installed shall meet or exceed the lead wipe testing standards adopted by the EPA for "bare soil in children's play areas," and shall be less than or equal to 400 micrograms of lead per square foot of surface area ($\mu\text{g}/\text{sq. ft.}$).

31. No herbicides, pesticides, or insecticides shall be used on the fields within the 100 ft buffer zone, except with the prior written permission of the Commission.

32. Prior to the start of work, the City of Newton shall collect no less than three (3) grab samples of substrate from the bordering vegetated wetland adjacent to the proposed work in the buffer zone. These samples shall be analyzed by EPA-approved methods and by an EPA-certified laboratory for the presence and concentration of heavy metals, to include: including zinc, iron, manganese, barium, lead and chromium.

* * * * *

Inspectional Services: *Prior to the issuance of a Building Permit*, please be sure the applicant has complied with Conditions # 9, 17, 19, 24, 27, 28, _____.

conditions\40 Brandeis Rd-NSHS-59 cond