Sampling Water from Turf Fields

21. Prior to construction of the new field, three locations for testing distributed across the turf field area shall be specified by the Commission. Prior to construction the Applicant shall evaluate seasonal high groundwater levels and percolation rates using the specified locations. This work shall be witnessed by the Medfield Conservation Agent. The applicant shall inform the Conservation Commission two weeks in advance of planned groundwater infiltration rate testing to provide an opportunity for the Conservation Agent to witness the testing.

22. A location for water sampling is to be provided as part of synthetic turf field construction. The location will be designated for sampling surface water runoff from the turf field on the discharge piping exiting the turf fields.

23. One round of samples shall be collected from the sample location to establish a baseline condition for total and dissolved benzene, arsenic, styrene, cadmium, chromium, copper, lead, silica, the 6 PFAS regulated under Massachusetts drinking water regulations. Detailed reports including analytical results shall be submitted to the Commission or its Agent upon receipt from the analytical lab. Water samples are to be collected two times each calendar year while there is runoff flow during or immediately following any 24-hours rain event of greater than 1 inch. Detailed reports including analytical results shall be submitted to the Commission or its Administrator upon receipt. The Applicant may suspend sampling if three consecutive sets of analytical results report levels of the parameters listed in Condition 30 within 50% of or lower than the average of initial baseline levels, or if the Commission deems further sampling unnecessary. If three consecutive sets of analytical results show the sum of the 6 measured PFAS exceeds the average baseline sum of the six measured PFAS by 100% or more, the Applicant shall evaluate the source of the elevated levels with the goal of restoring baseline conditions. An investigation to evaluate the source of the elevated levels shall commence within 90 days of the exceedance.

Operation and Maintenance

24. The Applicant shall submit for approval a protocol and plan for monitoring any migration of infill materials and turf blade material from the synthetic turf field within the buffer zone. The protocol shall include at least three transects from the edge of the field toward wetlands with proposed sampling locations. At these location soil samples should be sieved and fill and synthetic grass blade particles counted. Monitoring shall be done annually to determine if the fill from the field does migrate toward or into the wetland. Monitoring for fill particles may be suspended after three years with the approval of the Conservation Commission upon written request from the Applicant documenting that there has been little or no migration of fill or synthetic grass blade particles from the field.

25. The Applicant shall submit to the Commission for review and approval a protocol and plan for monitoring any migration of infill material and synthetic grass blades from the synthetic turf field to the wetland buffer zone via stormwater flow. The plan shall include installation of screens in the stormwater system below grade in the sump on the 12” common outlet line carrying drainage from the synthetic turf fields to intercept the infill material and synthetic grass blades for monitoring and quantification. Monitoring shall be done three times during significant rain events (forecast rainfall of greater than 2 inches) during the first year of field operation. The screens are to be left in-place for a period that is a minimum of 48 hours, selected to include peak rainfall from the storm during the first year of operation. The frequency of monitoring after the first year of operation shall be determined by the Commission based on the first-year results and may be less frequent or discontinued if the migration of material is found to be insignificant. Maintenance of the screens shall be performed according to the vendor's standard maintenance practices. Detailed reports shall be submitted to the Commission or its Agent within one week of monitoring.

26. The Applicant shall maintain the synthetic turf field in accordance with the approved synthetic turf field Operation and Maintenance Plan, including regular inspection of the turf.

27. Consistent with the Operation and Maintenance Manual, the turf field shall not be plowed (for snow removal) by either mechanical methods or hand shoveling in any way that allows the blade to contact the turf field.

28. Pervious surfaces shown on the project plans shall be maintained and not be replaced by impervious surfaces.

29. All mitigation measures proposed as part of this project shall remain in perpetuity. The approved planting areas, invasive removal areas, the rain garden, and the stormwater system shall remain in perpetuity and if replacement is necessary, shall be subject to the approval of the Commission. This shall be a continuing condition that survives the expiration of this permit / Order and shall be included in any Certificate of Compliance as a continuing condition in perpetuity.

Field Replacement

30. When the proposed artificial turf field is to be replaced, the Applicant shall file a new Notice of Intent with the Conservation Commission. This shall be a continuing condition that survives the expiration of this permit / Order and shall be included in any Certificate of Compliance as a continuing condition in perpetuity.

31. This Order of Conditions shall apply to any successor in interest or successor in control of this property. The Conservation Commission shall be notified in writing at the time of such transfer, or any transfer in title for all or part of the property that occurs prior to the issuance of the Certificate of Compliance. Prior to any transfer of title, the Order of Conditions shall be filed at the Registry of Deeds. A lack of such required written notification to the Conservation Commission shall delay the issuance of the Certificate of Compliance.

Environmental Monitor

32. The applicant shall retain a wetland scientist who will serve as the project's Environmental Monitor (EM). This person shall be competent in wetland ecology, soil science and have a minimum of five (5) years of experience in erosion control and general construction practices. Prior to the pre-construction meeting, the applicant shall provide the Medfield Conservation Commission (MCC) with the name(s), address(es) and telephone number(s) of EM and their alternate including their qualifications and contact information for MCC's approval. The EM or their backup shall be available on a 24- hour basis.

33. The EM shall be responsible for overseeing all activities within Riverfront, the 100-Foot Buffer Zone to Bordering Vegetated Wetlands (BVW) and the locally protected 50-foot No Distrub Zone on the project site, including, but not limited to: FILL IN . The EM shall also be responsible for regular inspections and replacement of erosion control devices

34. The EM shall monitor the site during and/or immediately after precipitation events of 0.5" or greater in a 24-hour period, or immediately after a winter snowmelt. The EM shall have the authority to modify existing erosion and sedimentation controls or require additional controls if they deem it necessary. The EM shall have the authority to stop construction for erosion control purposes and shall immediately notify MCC if any discharges to a wetland resource area occur.

35. Maintenance of the screens shall be performed according to the vendor's standard maintenance practices. Detailed reports shall be submitted to MassDEP within 72 hours of monitoring. In the event that the screens are clogged with infill material or synthetic grass blades, the Applicant shall evaluate methods to control the migration of infill material or

synthetic grass blades. These recommendations shall be submitted to MCC for review and approval within 90 days of the observation.

36. The EM shall submit weekly reports to MCC immediately upon the start of work. These reports shall summarize the site activities within the 100-foot Buffer Zone to BVW and Bank and shall confirm that all activities are in compliance with the conditions of this Order. The reports shall include, but are not limited to, a description of construction status and activities; overall site conditions; the condition of erosion and sedimentation controls; Buffer Zone activities; and reports of any erosion, sedimentation, or pollution problems and how they were corrected, along with recommendations on how to prevent similar problems in the future. The EM shall immediately report any unauthorized discharges of sediments to, and the applicant shall take immediate steps to correct the problem.

37. Upon completion of construction, the EM shall submit monthly reports to MCC to indicate whether the site is in compliance with the conditions of this Order. These monthly reports shall be submitted until such time that erosion is no longer a concern due to seasonal conditions and the applicant submits a written request to MCC to temporarily cease monitoring. The monthly monitoring reports shall include, but are not limited to, a description of overall site conditions; the condition of erosion and sedimentation controls; and actions taken to address problems and any other recommendations for site management. The EM shall immediately report any unauthorized discharges of sediments to MCC, and the applicant shall take immediate steps to correct the problem.

Restoration and Replication Plantings

38. This Order of Conditions shall apply to any successor in interest or successor in control of this property. The Conservation Commission shall be notified in writing at the time of such transfer, or any transfer in title for all or part of the property that occurs prior to the issuance of the Certificate of Compliance. Prior to any transfer of title, the Order of Conditions shall be filed at the Registry of Deeds. A lack of such required written notification to the Conservation Commission shall delay the issuance of the Certificate of Compliance.

39. The Medfield Conservation Commission shall be notified no less than one week prior to the initiation of any wetland replication or restoration activities. At its discretion, the Commission may require a pre-construction meeting with the contractor and any subcontractors executing the work, to review the wetland replication and restoration plans and conditions.

40. The Medfield Conservation Commission or its representative may also conduct construction monitoring inspections at any time during wetland replication or restoration construction activities.

41. All wetland replication and restoration monitoring and reporting shall be conducted by a qualified wetland scientist or restoration ecologist.

42. Upon completion of native seed application and nursery planting installations, the Permittee shall prepare and submit a Baseline Monitoring Report demonstrating compliance with the Restoration/Replication Plans.

43. Monitoring inspections shall be conducted twice per year (spring and fall) during the first three (3) full growing seasons following completion of wetland replication and restoration construction activities (including seeding and plantings). If wetland conditions have not been successfully established in any of the replication or restoration areas, the Conservation

Commission may require remedial actions and additional monitoring beyond the initial three year period.

44. The qualified wetland monitor shall prepare and submit Wetland Replication and Restoration Monitoring Reports to the Conservation Commission following each monitoring inspection.

- Spring monitoring shall be conducted annually between April 15th and May 30th. The Spring Monitoring Report shall be submitted to the Conservation Commission no later than June 15th annually.

- Fall monitoring shall be conducted annually between September 1st and October 15th. The Fall Monitoring Report shall be submitted to the Conservation Commission no later than November 1st annually.

45. All Wetland Replication and Restoration Monitoring Reports shall include the following information for each wetland replication and restoration area:

- Soil stabilization (percent groundcover of graminoid and herbaceous species)

- Plant species composition (species list and percent cover)

- Plant health (detail of any observed mortality, stress, health and vigor of nursery plantings)

- Invasive species (locations, abundance and percent cover)

- Hydrology indicators

- Soils

- Site photographs

- Appraisal of compliance with permit conditions

- Management Recommendations / Remedial Actions Required (if applicable)

46. Prior to issuance of a Certificate of Compliance, the performance standards listed below must be met after the end of the first three (3) growing seasons following the completion of construction activities :

- Soil stabilization within wetland replication and restoration areas shall be considered successful if each area has achieved no less than 80% vegetative cover comprised of native wetland species.

- Plant health shall be considered successful if there has been no greater than 10% mortality of the nursery stock native plantings. Plantings shall be replaced as needed during each growing season to maintain a minimum 90% total survival rate for the specified plantings. This condition applies to all nursery plantings specified for wetland replication areas, wetland restoration areas, and the 100-foot Buffer Zone.

- Invasive species management shall be considered successful if no greater than 10% invasive species by cover exists within (1) each wetland replication and restoration area and (2) areas specified on the site plans for invasive species management.

- The wetland replication area must be delineated by a qualified wetland scientist, survey located and plotted to an As-Built Plan in verification that the replication meets the Massachusetts Wetlands Protection Act definition of Bordering Vegetated Wetland (BVW) and that the extent of the wetland replication is no less in surface area than required per this Order of Conditions.

47. Unless specifically authorized by the Medfield Conservation Commission, no future disturbance (including cutting, mowing, or any kind of vegetation management) is allowed within the wetland replication and restoration areas. Any activities related to the management of invasive species shall require prior review and authorization by the Conservation Commission through submittal of an Invasive Species Management Plan (ISMP).

48. The use of herbicides for the management of invasive species must be performed by a Massachusetts-licensed Herbicide Applicator. The licensed Herbicide Applicator will be responsible for generating an Invasive Species Management Plan (ISMP) to include such details as:

- Target invasive species
- Specific location(s) of any proposed herbicide application and documentation of the invasive species within those areas (including estimate of % cover of the target invasive species in the area).
- Type and dilution of herbicide to be used
- Application method. All applications of herbicide must be performed via direct target-specific methods to minimize impacts to non-target native species.
- Proposed frequency and duration of applications
- Toxicological information for any proposed herbicide

The ISMP shall be submitted for review and approval of the Conservation Commission prior to any application of herbicide in areas which are jurisdictional under the Massachusetts Wetlands Protection Act.