

September 18, 2017

Kristin Kassner, Planning Director
Town of Burlington
Burlington Town Hall Annex
25 Center Street
Burlington, MA 01803

803 Summer Street
Boston, MA 02127

Tel: 617-896-4300
800-288-8123

www.bscgroup.com

RE: Application for Minor Engineering Change
Desktop Metals, Inc. site
63 3rd Avenue, Burlington MA

Dear Kristin,

BSC Group Inc., on behalf of our Client, Desktop Metals, Inc., provides this letter and the accompanying supporting materials to the Burlington Planning Board as an application for a Minor Engineering Change in accordance with Town's Site Plan Regulations, for the proposed modifications of the approved site plans at 63 Third Ave in Burlington, MA.

As you are aware, the partial reoccupation of the former vacant building at 63 Third Ave by Desktop Metals, Inc., has been the subject of a Minor Engineering Change which was previously approved by the Planning Board. The current modifications to the approved site plans are the result of an expansion of Desktop Metals to occupy the entire building at 63 Third Ave.

The following revisions and modifications have been proposed for the approved Site Plans for the 63 Third Avenue site. These changes are the result of the expansion of Desktop Metals' operation within the building and to improve access to the fire pump room from the exterior of the building. As these proposed improvements increase the amount of onsite impervious area by about 260 square feet, excess pavement, in the amount of approximately 350 square feet is being removed to insure there is no net increase of impervious area on the site. The 100-year flood elevation on the site is at elevation 140.0. Impacts below this elevation which result in a loss of existing flood storage volume will need to be mitigated on a one foot vertical increment basis (i.e. flood losses between elevation 139 to 140 must be fully mitigated within that elevation increment. The specific modifications as shown on the red-lined site plans accompanying this letter, and described in the attached materials are summarized as follows:

- 1. Proposed Sidewalk and stair access to fire pump room** –in consultation with the staff of the Burlington Fire Department, the applicant proposed to construct a new sidewalk stairs, and an exterior door to allow access to the fire pump room from the southern side of the building. The sidewalk and stairs result in a small increase in impervious area. As the new sidewalk, will be set level with the existing grade, and the new stair will be located in an existing area that is currently at or just above elevation 140.0, there will be no impact to onsite flood storage volumes.
- 2. Proposed Dust Collectors** – Due to the operation of the processes within the interior of the building, three new dust collector units will be required. These three units will be located outside and adjacent to the southern side of the building. They will be self-contained units, mounted on concrete pads. These dust collector units result in a small increase in impervious area of approximately 192 sf. As with the stairs, a portion of

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existing grade within the footprint of the three dust collectors is at or above the 100-year flood elevation. The concrete pads upon which the dust collectors will be set, will be set at about 6-inches above the existing curb, and extend back to the wall of the existing building. Within this pad footprint, the existing grade will be excavated to the top of the concrete pad. Portions of this pad will impact and cause a loss of flood storage, while portions of these pad will create flood storage.

3. **New Dumpster Enclosure** – A new enclosed dumpster is located at the southern edge of the existing parking lot, taking up two existing parking spaces. This dumpster and enclosure is in a previous impervious area and outside of the 100-year flood limits, so there are no impacts to the onsite existing flood storage or impervious area.
4. **Impervious Area and Flood Plain storage volume impacts** – As noted under items 1 and 2 above, the proposed site modifications will result in small impacts to onsite impervious area and flood storage volume. Please see the information on the revised red-lined site, as detailed below.

Onsite Impervious Area Impacts:

- Increase of impervious area due to proposed sidewalk, stairs and dust collectors: 260 sf.
- Compensatory reduction in onsite impervious area (see area of pavement removal at southwest corner of the red-lined site plan); decrease in impervious area: 353 sf.
- Overall, the onsite impervious area will be decreased by 90 sf.

Onsite Flood Plain storage volume impacts:

- Flood plain storage lost, elevation increment 138.0 to 139.0: 16 cubic feet (cf)
- Flood plain storage lost, elevation increment 139.0 to 140.0: 56 cf.
- Flood plain storage provided, elevation increment 138.0 to 139.0: 128 cf.
- Flood plain storage provided, elevation increment 139.0 to 140.0: 60 cf.
- Overall flood plain storage increase provided for elevation increment 138.0 to 139.0 is 72 cf, and for elevation increment 139.0 to 140.0 is 4 cf.

Please do not hesitate to contact our office at your convenience should you have any questions or comments on this letter and the accompanying materials. Should you so desire, we would be happy to meet with you, the Planning staff or other Town staff to discuss the project.

On behalf of our Client and myself, I thank the Planning Board and its staff for the consideration and assistance you have afforded to us on this project.

Sincerely,

BSC GROUP, INC.

Francis D. DiPietro, P.E.,
Senior Project Manager, Senior Associate

Attachments