T 800.426.4262 T 207.774.2112 F 207.774.6635

MEMORANDUM



TO:Jean Fraser, PlannerFROM:David Senus, P.E.DATE:July 6, 2015RE:1342 Congress Street Neighborhood Center, Final Level III Site Plan Application

Woodard & Curran has reviewed the response to comments and Final Level III Site Plan Application submittal for the for the proposed Neighborhood Center at 1342 Congress Street. The project involves the construction of a 19,300 SF building with associated site improvements that include a surface parking lot, stormwater management system, utilities, site lighting, and landscaping. The project will disturb approximately 85,000 SF and result in 12,500 SF of additional impervious area.

Documents Reviewed by Woodard & Curran

- Response to Comments letter dated June 24, 2015, prepared by Tighe & Bond, on behalf of the Jewish Community Alliance of Southern Maine.
- Revised Drainage Study for the Proposed Neighborhood Center located at 1342 Congress Street, revision date June 23, 2015, prepared by Tighe & Bond on behalf of the Jewish Community Alliance of Southern Maine.
- Engineering Plans, Sheets C-1 through C-10, rev dated June 23, 2015, prepared by Tighe & Bond, on behalf of the Jewish Community Alliance of Southern Maine.

Comments

- 1. The Applicant has noted that they are currently working on completing a Temporary Construction Agreement with the abutting landowner at 60 Willow Lane for the installation of permanent stormwater conveyance features on the abutter's property, to be owned and maintained by the abutter, and will submit this agreement to the Planning Board prior to the meeting.
- 2. All previous review comments provided by Woodard & Curran have been adequately addressed.

T 800.426.4262 T 207.774.2112 F 207.774.6635

MEMORANDUM



TO:Jean Fraser, PlannerFROM:David Senus, P.E.DATE:April 22, 2015RE:1342 Congress Street Neighborhood Center, Preliminary Level III Site Plan Application

Woodard & Curran has reviewed the Preliminary Level III Site Plan Application for the proposed Neighborhood Center located at 1342 Congress Street in Portland, Maine. The project involves the construction of a 19,300 SF building with associated site improvements that include a surface parking lot, stormwater management system, utilities, site lighting, and landscaping. The project will disturb approximately 85,000 SF and result in 12,500 SF of additional impervious area.

Documents Reviewed by Woodard & Curran

- Preliminary Level III Site Plan Application and attachments, dated April 3, 2015, prepared by Tighe & Bond, on behalf of the Jewish Community Alliance of Southern Maine.
- Engineering Plans, Sheets C-1 through C-9, dated April 3, 2015, prepared by Tighe & Bond, on behalf of the Jewish Community Alliance of Southern Maine.

Comments

- 1) The project will disturb more than one acre of area and will therefore require filing a notice of intent to comply with the Maine Construction General Permit with the MaineDEP.
- 2) The application is preliminary. As such, additional documents will be submitted for the final application, including letters from utilities confirming capacity to serve the proposed development and a Construction Management Plan. Woodard & Curran will perform a review of the Final Application upon receipt of those documents.
- 3) In accordance with Section 5 of the City of Portland Technical Manual, a Level III development project is required to submit a stormwater management plan pursuant to the regulations of MaineDEP Chapter 500 Stormwater Management Rules, including conformance with the Basic, General, and Flooding Standards. We offer the following comments:
 - a) Basic Standards: Plans, notes, and details have been provided to address erosion and sediment control requirements, inspection and maintenance requirements, and good housekeeping practices in general accordance with Appendix A, B, & C of MaineDEP Chapter 500.
 - b) General Standards: The project will result in a net increase in impervious area of approximately 12,500 square feet. As such, the project is required to include stormwater management features for water quality control. The Applicant is proposing an underdrained soil filter to meet the General Standards. The following comments should be addressed:
 - i) The Applicant has requested a waiver from the requirement for pre-treatment of runoff directed to filter BMPs due to topographic and geometric constraints of the site. Pre-treatment is particularly important for filter systems to ensure that sediment does not clog the filter and impede its function. It appears that there is ample space on the southern portion of the site to provide the MaineDEP recommended forebay area. We recommend that the applicant include a sediment forebay at the inlet point to the filter.
 - ii) The Applicant should provide calculations demonstrating that an area equivalent to 95% of the new impervious area will be treated by the Underdrained Soil Filter system in accordance with the General Standards.
 - iii) Per Chapter 7.1 of Volume III of the MaineDEP Stormwater BMP Manual, the Applicant should provide appropriate sizing calculations, including treatment volumes, filter area, and peak water quality storage depths, for the proposed Underdrained Soil Filter system.

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c) Flooding Standard: The project will result in net increase in impervious area of approximately 12,500 square feet. As such, the project is required to include stormwater management features to



control the rate of stormwater runoff from the site. The Applicant has provided HydroCAD Reports to demonstrate compliance with the Flooding Standard. The following comments should be addressed:

- i) Without site-specific soil infiltration testing data, the HydroCAD model cannot include the discarding of flow by means of infiltration within the soil filter area.
- ii) Future submittals should include details for the outlet control structures associated with the soil filter and the StormTech Chamber system, including orifices and weirs.
- iii) Future submittals should identify key elevations for the StormTech Chamber detail matching to the elevations utilized in the HydroCAD model.
- iv) The Pre-Development Watershed Plan (WS-1) indicates that runoff from the existing building roof is part of catchments WS-1 and WS-2; however, runoff from some of these roof areas is collected in downspouts that enter into the ground and which do not appear to flow to PA-1 and PA-2. The Applicant should determine the discharge location for the building's roof downspouts and re-evaluate the catchment areas and stormwater model based on their findings.
- v) The Applicant has proposed to discharge the majority of the site's drainage to a new outfall located at the southwest edge of the site, adjacent to an existing drainage ditch that flows across a residential property located south of the site. Although the pre/post stormwater analysis is intended to show that the flow at this study point will not increase in the 2, 10 and 25 year storm event conditions, there will be a new outfall with a concentrated discharge at this location. We recommend that the Applicant work with the adjacent property owner to determine if there are existing concerns over drainage in this area, and based on input from that property owner, determine if improvements can or should be made to the drainage ditch as part of this project.
- 4) The Long Term Operations & Maintenance Plan for stormwater management systems should include a reference to Chapter 32 of the City of Portland Code of Ordinances related to annual reporting requirements.
- 5) The proposed Underdrained Soil Filter Bed detail refers to a Rain Garden Planting Plan for proposed plantings; however, it does not appear that this plan has been provided at this time.
- 6) The proposed Vertical Granite Curb, Concrete Sidewalk, and Utility Trench details should be revised to comply with the City of Portland Technical Manual for work within the City Right-of-Way.

T 800.426.4262 T 207.774.2112 F 207.774.6635

MEMORANDUM



TO:Jean Fraser, PlannerFROM:David Senus, P.E.DATE:May 13, 2015RE:1342 Congress Street Neighborhood Center, Preliminary Level III Site Plan Application

Woodard & Curran has reviewed the Preliminary Level III Site Plan Application response to comments submittal for the for the proposed Neighborhood Center at 1342 Congress Street. The project involves the construction of a 19,300 SF building with associated site improvements that include a surface parking lot, stormwater management system, utilities, site lighting, and landscaping. The project will disturb approximately 85,000 SF and result in 12,500 SF of additional impervious area.

Documents Reviewed by Woodard & Curran

- Response to Comments Memorandum dated May 8, 2015, prepared by Tighe & Bond, on behalf of the Jewish Community Alliance of Southern Maine.
- Revised Drainage Study for the Proposed Neighborhood Center located at 1342 Congress Street, revision date May 5, 2015, prepared by Tighe & Bond on behalf of the Jewish Community Alliance of Southern Maine.
- Engineering Plans, Sheets C-2A through C-9, rev dated May 8, 2015, prepared by Tighe & Bond, on behalf of the Jewish Community Alliance of Southern Maine.

Comments (Previous review comment with update in **bold**)

 The project will disturb more than one acre of area and will therefore require filing a notice of intent to comply with the Maine Construction General Permit with the MaineDEP.

Acknowledged by Applicant.

2) The application is preliminary. As such, additional documents will be submitted for the final application, including letters from utilities confirming capacity to serve the proposed development and a Construction Management Plan. Woodard & Curran will perform a review of the Final Application upon receipt of those documents.

Acknowledged by Applicant.

- 3) In accordance with Section 5 of the City of Portland Technical Manual, a Level III development project is required to submit a stormwater management plan pursuant to the regulations of MaineDEP Chapter 500 Stormwater Management Rules, including conformance with the Basic, General, and Flooding Standards. We offer the following comments:
 - a) Basic Standards: Plans, notes, and details have been provided to address erosion and sediment control requirements, inspection and maintenance requirements, and good housekeeping practices in general accordance with Appendix A, B, & C of MaineDEP Chapter 500.

Acknowledged by Applicant.

- b) General Standards: The project will result in a net increase in impervious area of approximately 12,500 square feet. As such, the project is required to include stormwater management features for water quality control. The Applicant is proposing an underdrained soil filter to meet the General Standards. The following comments should be addressed:
 - i) The Applicant has requested a waiver from the requirement for pre-treatment of runoff directed to filter BMPs due to topographic and geometric constraints of the site. Pre-treatment is particularly important for filter systems to ensure that sediment does not clog the filter and impede its function. It appears that there is ample space on the southern portion of the site to provide the MaineDEP recommended forebay area. We recommend that the applicant include a sediment forebay at the inlet point to the filter.

Comment adequately addressed - A sediment forebay has been added to design.



ii) The Applicant should provide calculations demonstrating that an area equivalent to 95% of the new impervious area will be treated by the Underdrained Soil Filter system in accordance with the General Standards.

Comment adequately addressed – Calculations have been provided. An adequate area will be treated and the soil filter system is designed to detain and treat the water quality volume in accordance with the General Standards.

- iii) Per Chapter 7.1 of Volume III of the MaineDEP Stormwater BMP Manual, the Applicant should provide appropriate sizing calculations, including treatment volumes, filter area, and peak water quality storage depths, for the proposed Underdrained Soil Filter system.
 Comment adeguately addressed Calculations have been provided.
- c) Flooding Standard: The project will result in net increase in impervious area of approximately 12,500 square feet. As such, the project is required to include stormwater management features to control the rate of stormwater runoff from the site. The Applicant has provided HydroCAD Reports to demonstrate compliance with the Flooding Standard. The following comments should be addressed:
 - i) Without site-specific soil infiltration testing data, the HydroCAD model cannot include the discarding of flow by means of infiltration within the soil filter area.

Comment adequately addressed – Model has been revised.

- Future submittals should include details for the outlet control structures associated with the soil filter and the StormTech Chamber system, including orifices and weirs.
 Comment adequately addressed – Details provided.
- iii) Future submittals should identify key elevations for the StormTech Chamber detail matching to the elevations utilized in the HydroCAD model.

Comment adequately addressed – Details provided.

iv) The Pre-Development Watershed Plan (WS-1) indicates that runoff from the existing building roof is part of catchments WS-1 and WS-2; however, runoff from some of these roof areas is collected in downspouts that enter into the ground and which do not appear to flow to PA-1 and PA-2. The Applicant should determine the discharge location for the building's roof downspouts and re-evaluate the catchment areas and stormwater model based on their findings.

The Applicant's engineer has stated that they are actively working with the Owner to determine the outlet locations of the roof drains. As part of the future, final submittal, the Applicant will revise the Pre- Development Watershed Plan (WS-1) and drainage design (if needed) to account for updated roof drainage information.

v) The Applicant has proposed to discharge the majority of the site's drainage to a new outfall located at the southwest edge of the site, adjacent to an existing drainage ditch that flows across a residential property located south of the site. Although the pre/post stormwater analysis is intended to show that the flow at this study point will not increase in the 2, 10 and 25 year storm event conditions, there will be a new outfall with a concentrated discharge at this location. We recommend that the Applicant work with the adjacent property owner to determine if there are existing concerns over drainage in this area, and based on input from that property owner, determine if improvements can or should be made to the drainage ditch as part of this project.

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The Applicant has acknowledged that they will work with the adjacent property owner to determine if there are any existing concerns over drainage in this area and determine if improvements are necessary. Information regarding these discussions/decisions should be provided with the final submittal.

4) Sheet C-2b depicts snow storage along the east edge of the rear parking lot, adjacent to several residential properties. The grading plan (C-3) indicates that runoff from this area would potentially flow onto these properties. The Applicant should limit snow storage in this area and should revisit the



proposed grading to ensure that runoff from the project property is not directed onto these abutting residential lots.

Comment adequately addressed - The grading plan has been revised to provide for a shallow swale on the project property.

5) The Long Term Operations & Maintenance Plan for stormwater management systems should include a reference to Chapter 32 of the City of Portland Code of Ordinances related to annual reporting requirements.

Comment adequately addressed – Annual reporting requirements per Chapter 32 added to O&M Plan.

- 6) The proposed Underdrained Soil Filter Bed detail refers to a Rain Garden Planting Plan for proposed plantings; however, it does not appear that this plan has been provided at this time. The Applicant has acknowledged that the Landscape Plan, Sheet L-1, will be updated to include an appropriate planting plan for the Underdrained Soil Filter with the Final Site Plan Submission.
- 7) The proposed Vertical Granite Curb, Concrete Sidewalk, and Utility Trench details should be revised to comply with the City of Portland Technical Manual for work within the City Right-of-Way. Comment adequately addressed – Details provided.

T 800.426.4262 T 207.774.2112 F 207.774.6635

MEMORANDUM

TO:

RE:



Jean Fraser, Planner FROM: David Senus, P.E. DATE: May 1, 2015 1342 Congress Street Neighborhood Center, Preliminary Level III Site Plan Application

Woodard & Curran has reviewed the Preliminary Level III Site Plan Application for the proposed Neighborhood Center located at 1342 Congress Street in Portland, Maine. The project involves the construction of a 19,300 SF building with associated site improvements that include a surface parking lot, stormwater management system, utilities, site lighting, and landscaping. The project will disturb approximately 85,000 SF and result in 12,500 SF of additional impervious area.

Documents Reviewed by Woodard & Curran

- Preliminary Level III Site Plan Application and attachments, dated April 3, 2015, prepared by Tighe • & Bond, on behalf of the Jewish Community Alliance of Southern Maine.
- Engineering Plans, Sheets C-1 through C-9, dated April 3, 2015, prepared by Tighe & Bond, on • behalf of the Jewish Community Alliance of Southern Maine.

Comments

- The project will disturb more than one acre of area and will therefore require filing a notice of intent to 1) comply with the Maine Construction General Permit with the MaineDEP.
- 2) The application is preliminary. As such, additional documents will be submitted for the final application, including letters from utilities confirming capacity to serve the proposed development and a Construction Management Plan. Woodard & Curran will perform a review of the Final Application upon receipt of those documents.
- 3) In accordance with Section 5 of the City of Portland Technical Manual, a Level III development project is required to submit a stormwater management plan pursuant to the regulations of MaineDEP Chapter 500 Stormwater Management Rules, including conformance with the Basic, General, and Flooding Standards. We offer the following comments:
 - Basic Standards: Plans, notes, and details have been provided to address erosion and sediment a) control requirements, inspection and maintenance requirements, and good housekeeping practices in general accordance with Appendix A, B, & C of MaineDEP Chapter 500.
 - b) General Standards: The project will result in a net increase in impervious area of approximately 12,500 square feet. As such, the project is required to include stormwater management features for water quality control. The Applicant is proposing an underdrained soil filter to meet the General Standards. The following comments should be addressed:
 - The Applicant has requested a waiver from the requirement for pre-treatment of runoff directed i) to filter BMPs due to topographic and geometric constraints of the site. Pre-treatment is particularly important for filter systems to ensure that sediment does not clog the filter and impede its function. It appears that there is ample space on the southern portion of the site to provide the MaineDEP recommended forebay area. We recommend that the applicant include a sediment forebay at the inlet point to the filter.
 - ii) The Applicant should provide calculations demonstrating that an area equivalent to 95% of the new impervious area will be treated by the Underdrained Soil Filter system in accordance with the General Standards.
 - iii) Per Chapter 7.1 of Volume III of the MaineDEP Stormwater BMP Manual, the Applicant should provide appropriate sizing calculations, including treatment volumes, filter area, and peak water quality storage depths, for the proposed Underdrained Soil Filter system.

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Flooding Standard: The project will result in net increase in impervious area of approximately C) 12,500 square feet. As such, the project is required to include stormwater management features to



control the rate of stormwater runoff from the site. The Applicant has provided HydroCAD Reports to demonstrate compliance with the Flooding Standard. The following comments should be addressed:

- i) Without site-specific soil infiltration testing data, the HydroCAD model cannot include the discarding of flow by means of infiltration within the soil filter area.
- ii) Future submittals should include details for the outlet control structures associated with the soil filter and the StormTech Chamber system, including orifices and weirs.
- iii) Future submittals should identify key elevations for the StormTech Chamber detail matching to the elevations utilized in the HydroCAD model.
- iv) The Pre-Development Watershed Plan (WS-1) indicates that runoff from the existing building roof is part of catchments WS-1 and WS-2; however, runoff from some of these roof areas is collected in downspouts that enter into the ground and which do not appear to flow to PA-1 and PA-2. The Applicant should determine the discharge location for the building's roof downspouts and re-evaluate the catchment areas and stormwater model based on their findings.
- v) The Applicant has proposed to discharge the majority of the site's drainage to a new outfall located at the southwest edge of the site, adjacent to an existing drainage ditch that flows across a residential property located south of the site. Although the pre/post stormwater analysis is intended to show that the flow at this study point will not increase in the 2, 10 and 25 year storm event conditions, there will be a new outfall with a concentrated discharge at this location. We recommend that the Applicant work with the adjacent property owner to determine if there are existing concerns over drainage in this area, and based on input from that property owner, determine if improvements can or should be made to the drainage ditch as part of this project.
- 4) Sheet C-2b depicts snow storage along the east edge of the rear parking lot, adjacent to several residential properties. The grading plan (C-3) indicates that runoff from this area would potentially flow onto these properties. The Applicant should limit snow storage in this area and should revisit the proposed grading to ensure that runoff from the project property is not directed onto these abutting residential lots.
- 5) The Long Term Operations & Maintenance Plan for stormwater management systems should include a reference to Chapter 32 of the City of Portland Code of Ordinances related to annual reporting requirements.
- 6) The proposed Underdrained Soil Filter Bed detail refers to a Rain Garden Planting Plan for proposed plantings; however, it does not appear that this plan has been provided at this time.
- 7) The proposed Vertical Granite Curb, Concrete Sidewalk, and Utility Trench details should be revised to comply with the City of Portland Technical Manual for work within the City Right-of-Way.