SITE PLAN REVIEW TECHNICAL ADVISORY COMMITTEE PORTSMOUTH, NEW HAMPSHIRE

CONFERENCE ROOM A CITY HALL, MUNICIPAL COMPLEX, 1 JUNKINS AVENUE

Members of the public also have the option to join the meeting over Zoom (See below for more details)*

2:00 PM

December 6, 2022

AGENDA

I. APPROVAL OF MINUTES

A. Approval of minutes from the November 17, 2022 Site Plan Review Technical Advisory Committee Meeting.

II. OLD BUSINESS

- A. REQUEST TO POSTPONE The application of Banfield Realty, LLC, (Owner), for property located at 375 Banfield Road requesting Site Plan review approval to demolish two existing commercial buildings and an existing shed and construct a 75,000 s.f. industrial warehouse building with 75 parking spaces as well as associated paving, stormwater management, lighting, utilities and landscaping. Said property is shown on Assessor Map 266 Lot 7 and lies within the Industrial (I) District. (LU-20-259) REQUEST TO POSTPONE
- B. The request of Frederick J. Bailey III & Joyce Nelson (Owners), and Tuck Realty Corporation (Applicant), for properties located at 212, 214, and 216 Woodbury Avenue requesting Preliminary and Final Subdivision Approval for a Lot Line Relocation to create the following lots: Proposed Lot 1 to be 60,025 square feet of lot area where 26,012 square feet are existing, Proposed Lot 2 to be 12,477 square feet of lot area where 29,571 square feet are existing, and Proposed Lot 3 to be 7,917 square feet of lot area where 24,836 square feet are existing. No changes in street frontage are proposed. Said properties are located on Assessor Map 175 Lots 1, 2, and 3 and lie within the General Residence A (GRA) District. (LU-22-129)
- C. The request of Frederick J. Bailey III & Joyce Nelson (Owners), and Tuck Realty Corporation (Owner and Applicant), for properties located at 212 Woodbury Avenue requesting Site Plan Approval for the construction of an eight-unit condominium development consisting of four (4) single living-unit structures, two (2) two-unit structures, 18 parking spaces where are 13 required, and associated stormwater, utility

and site improvements with access to the development from Boyd Street. Said properties are located on Assessor Map 175 Lot 1 and lies within the General Residence A (GRA) District. (LU-22-129)

- D. The request of Jonanthan Watson Sobel Revocable Trust (Owner), for property located at 49 Sheafe Street requesting preliminary and final subdivision approval to subdivide one (1) lot with an area of 5,402 s.f. and 50.55 ft. of continuous street frontage on Sheafe Street and 22.93 feet of frontage on Custom House Court into two (2) lots as follows: Proposed lot 1 with an area of 1,855 s.f. and 22.93 ft. of continuous street frontage on Custom House Court; and Proposed Lot 2 with an area of 3,548 s.f. and 50.55 ft of continuous street frontage on Sheafe Street frontage on Sheafe Street. Said property is shown on Assessor Map 107 Lot 21 and lies within the CD4 and Historic Districts. (LU-22-179)
- E. The request of One Market Square LLC (Owner), for property located at 1 Congress Street requesting Site Plan Review approval for the partial demolition and expansion of the existing structure to construct a 3-story building with 58,780 square feet of gross floor area, 12,080 square foot building footprint, 13 parking spaces, and associated onsite and offsite improvements. Said property is shown on Assessor Map 117 Lot 14 and lies within the Character District 4 (CD4), Character District 5 (CD5), Downtown Overlay (DOD), and Historic District. (LU-22-12)

III. NEW BUSINESS

- A. The request of Brady J. Byrd and Brian L. Neste (Owner), for property located at 184 Walker Bungalow Road & 27 Shaw Road requesting lot line relocation to convey 3,834 square feet of area and 26 feet of frontage from lot 223/18 to lot 223/19. Said property is located on Assessor Map 223 Lot 19 and lies within the Single Residence B (SRB) District. (LU-22-224)
- B. The request of Torrington Brown LLC and Single Venture LLC (Owners), for property located at 132 & 134 Middle Street requesting a Conditional Use Permit Approval to provide 7 parking spaces where 17 spaces are required as permitted under Section 10.1112.62 of the Zoning Ordinance Said property is shown on Assessor Map 127 Lots 11, 12 and is located within the Character District 4-L1 (CD4-L1) and Historic Districts. (LU-22-232)

IV. OTHER BUSINESS

V. ADJOURNMENT

https://us06web.zoom.us/webinar/register/WN_F_FhQtT8QWmmGIvUnmt4xg

SITE PLAN REVIEW TECHNICAL ADVISORY COMMITTEE PORTSMOUTH, NEW HAMPSHIRE

CONFERENCE ROOM A CITY HALL, MUNICIPAL COMPLEX, 1 JUNKINS AVENUE

2:00 PM

November 1, 2022

MINUTES

MEMBERS PRESENT:

Peter Stith, Chairperson, Principal Planner; David
Desfosses, Construction Technician Supervisor; Patrick
Howe, Deputy Fire Chief; Shanti Wolph, Chief Building
Inspector; Peter Britz, Environmental Planner; Zachary
Cronin, Assistant City Engineer, Eric Eby, Parking and
Transportation Engineer, Michael Maloney, Deputy Police
Chief, Nicholas Cracknell, Principal Planner;

MEMBERS ABSENT:

ADDITIONAL STAFF PRESENT: Beverly M. Zendt, Planning Director; Stefanie Casella, Planner 1

[] Brackets denote timestamps in recording.

[6:20] Chair Stith opened the meeting.

[6:42] Chair Stith acknowledged that there were two postponements, one for 375 Banfield Road and one for 212 Woodbury Avenue, these were listed as items A, D, and E under Old Business.

I. APPROVAL OF MINUTES

A. Approval of minutes from the October 4, 2022 Site Plan Review Technical Advisory Committee Meeting.

[7:29] Mr. Britz made a motion to approve the minutes from the October 4th, 2022, meeting. The motion was seconded by Mr. Wolph. The motion passed unanimously.

II. OLD BUSINESS

- A. REQUEST TO POSTPONE The application of Banfield Realty, LLC, (Owner), for property located at 375 Banfield Road requesting Site Plan review approval to demolish two existing commercial buildings and an existing shed and construct a 75,000 s.f. industrial warehouse building with 75 parking spaces as well as associated paving, stormwater management, lighting, utilities and landscaping. Said property is shown on Assessor Map 266 Lot 7 and lies within the Industrial (I) District. REQUEST TO POSTPONE (LU-20-259)
- **B.** The request of **Port Harbor Land, LLC (Owner and Applicant),** for property located at **2 Russell Street** requesting Lot Line Revision Approval to adjust the boundary lines on three lots to create one lot with 18,237 square feet (0.418 acres) of lot area, one lot with 52,651 square feet (1.209 acres) of lot area, and one lot with 19,141 square feet (0.429 acres) of lot area. Said properties are located on Assessor Map 118 Lot 28, Map 124 Lot 12, and Map 125 Lot 21 and lie within the Character District 5 (CD5), North End Incentive Overlay District, Historic District, and the Downtown Overlay District. (LU-22-111)

*Please see item C

- C. The request of Port Harbor Land, LLC (Owner and Applicant), for property located at **2 Russell Street** requesting Site Plan Approval for the construction of 84 residential units, commercial space, and parking in three buildings with associated community space, paving, utilizes, landscaping, and other site improvements including three proposed land transfers to allow for the realignment of the Russell Street & Deer Street intersection and for the City's future construction of a roundabout at Russell Street and Market Street (Land transfer area 1 is proposed from Map 119 Lot 4 to the City of Portsmouth. Land transfer areas 2 and 3 are from Map 119 Lot 1-1C to the City of Portsmouth); Conditional Use Permit Approval to provide 334 parking spaces on separate lots where 341 spaces are required as permitted under Section 10.1112.62 of the Zoning Ordinance; and Conditional Use Permit Approval to allow a 40,000 square foot building footprint within the CD5 as permitted under 10.5A43.43 of the Zoning Ordinance. Said properties are located on Assessor Map 118 Lot 28, Map 124 Lot 12, Map 125 Lot 21, Map 119 Lot 4, and Map 119 Lot 1-1C and lie within the Character District 5 (CD5), North End Incentive Overlay District, Historic District, and the Downtown Overlay District. (LU-22-111)
- [7:38] Chair Stith introduced this application.

SPEAKING TO THE APPLICATION

[9:58] Neil Hansen and Patrick Crimmins from Tighe & Bond along with Ryan Plummer from Two International Group spoke to this application. First, Mr. Hansen responded to the latest round of comments from staff and peer reviews.

[10:41]

1. Peer review comments will be read at the end.

2. They will make the speed bump a hump.

3. A revised version of a building footprint was provided via paper copy which the staff will need to review.

4. The specified parking space will be illuminated.

5. The building with proposed revisions would have to be moved out of the existing sewer easement but they will instead be leaving it as is and will take care of moving the sewer across the railroad so that the building could be left where it was originally intended.

6. They acknowledge that they will have to work with the Trees and Greenery Committee to approve the tree grades, planting details and planting species.

7. They acknowledge that they will need approval from the Parking and Traffic Safety Committee along with City Council for on-street parking changes.

8. They acknowledge that they will be repaying Deer and Russell Street.

9. They are fine with revising the crosswalk for Deer Street at Portwalk Place to make it a high visibility, at grade crosswalk with RRFBs.

10. They are fine revising the streetlight locations in terms of their proximity to crosswalks.

11. They will provide sharrow markings every 100 feet.

12. They will add a ONE-WAY sign with the DO NOT ENTER sign at the shared roadway onto the plan set.

13. They will be removing the left/through pavement arrow on Deer Street at Russell Street.

[17:02] Mr. Hansen proceeded to go over peer review comments received from TEC.

- 1. They will be adding a stop sign at the northerly end of Green Street.
- 2. They will be adding details to the RRFBs and push buttons for the crosswalk from Portwalk Place.
- 3. They will be copying DPW on all communications with the railroad company.
- 4. They have added the fence alongside the railroad side. TEC raised concerns about snow storage to which Mr. Hansen mentioned that they will be hauling snow off site.
- 5. Lastly, TEC recommended gated access between buildings two and three or a no public parking sign. Mr. Hansen said that they will be adding a sign and not a gate.

[19:29] Mr. Hansen proceeded to go over stormwater comments they had received from CMA.

- 1. They were asked to provide supporting documentation on the elevation of the onsite ledge to which Mr. Hansen said they have in a ledge-profile plan which they will provide.
- 2. The last CMA comment was regarding further infiltration at the site to which Mr. Hansen noted that they were not interested in infiltration due to the proximity of the buildings and foundations on the site.

[25:28] Mr. Hansen responded to comments from Mr. Desfosses that they will be adding a construction access easement to their plan so that there will be construction access for the roundabout construction in the future.

PUBLIC HEARING

[27:31] Chair Stith opened the public comment portion of the hearing. No one spoke. The public hearing was closed.

DISCUSSION AND DECISION OF THE BOARD

[28:17] Ms. Zendt mentioned that there were several outstanding revisions that needed to be completed. These included the sewer main needed to be located, the crosswalk will need to be revised, the final locations for the streetlights need to be finalized, sharrow markings need to be set, a ONE-WAY sign needs to be added along with multiple smaller notes, easement plan updates and plan additions. Ms. Zendt would like to see the plans again, especially to confirm the parking plans.

[31:15] The attorney for the project, John Lyons, spoke to the parking plan with a letter in response to the letter provided by the attorney for the neighboring condo association, Mr. Gormley about the 58 deeded parking spaces. He noted that his client would honor those parking spaces and that they would not be stacked parking systems.

[39:36] Mr. Eby made a motion to recommend approval of the project to the Planning Board with the following conditions:

Conditions to be satisfied prior to the Planning Board Submittal date:

1. Applicant will update the access easement plan to provide a temporary construction access easement across the entirety of map 119 lot 4.

2. Applicant will provide a letter with their next submission addressing the changes that have been made to the plan set as a result of the TAC stipulations of approval or further project development.

Mr. Desfosses seconded the motion. The motion passed unanimously.

D. REQUEST TO POSTPONE The request of Frederick J. Bailey III & Joyce Nelson (Owners), and Tuck Realty Corporation (Applicant), for properties located at 212, 214, and 216 Woodbury Avenue requesting Preliminary and Final Subdivision Approval for a Lot Line Relocation to create the following lots: Proposed Lot 1 to be 60,025 square feet of lot area where 26,012 square feet are existing, Proposed Lot 2 to be 12,477 square feet of lot area where 29,571 square feet are existing, and Proposed Lot 3 to be 7,917 square feet of lot area where 24,836 square feet are existing. No changes in street frontage are proposed. Said properties are located on Assessor Map 175 Lots 1, 2, and 3 and lie within the General Residence A (GRA) District. REQUEST TO POSTPONE (LU-22-129)

- E. REQUEST TO POSTPONE The request of Frederick J. Bailey III & Joyce Nelson (Owners), and Tuck Realty Corporation (Owner and Applicant), for properties located at 212 Woodbury Avenue requesting Site Plan Approval for the construction of an eight-unit condominium development consisting of four (4) single living-unit structures, two (2) two-unit structures, 18 parking spaces where are 13 required, and associated stormwater, utility and site improvements with access to the development from Boyd Street. Said properties are located on Assessor Map 175 Lot 1 and lies within the General Residence A (GRA) District. REQUEST TO POSTPONE (LU-22-129)
- F. The request of Tom Balon and EightKPH, LLC (Owner and Applicant), for property located at 161 Deer Street requesting Site Plan Review approval for the construction of a four (4) story building to include a penthouse, commercial space, 19 dwelling units, and associated site improvements. Said property is shown on Assessor Map 125 Lot 17-3 and lies within the Character District 5 (CD5), Downtown Overlay, North End Incentive, and Historic Districts. (LU-22-173)

[40:31] Chair Stith introduced this project.

SPEAKING TO THE APPLICATION

[41:11] John Chagnon of Ambit Engineering, Carla Goodnight the project architect, Terrence Parker of Terra Firma and the landowner/applicant presented this application.

[42:15] Mr. Chagnon spoke to the comments they had received from staff.

- 1. The applicant has been working with Jamie McCarty to pick a new address due to 88 Maplewood not being available. The applicant has settled on 70 Maplewood Avenue being the new address.
- 2. The number of street trees being proposed is keeping with the zoning ordinance. The area in the northern corner of the property is near electrical lines and equipment, making it difficult to place trees but one additional tree has been added to the updated plans. They will work with Eversource on where they can locate more trees.
- 3. They did submit a TAC response letter on September 6th and will do that going forward.
- 4. The former driveway plan that would exit off Maplewood has been changed to now exit from the west side of the building.
- 5. The community space and park has been redesigned and connected to Deer Street on the west side. The calculations have been updated.
- 6. The demo plan now shows that there will be no need to cut into Deer Street to cap the existing utility services. The6" sewer line will need to be terminated at the main.
- 7. On Sheet C3 they have added a new location for the wayfinding sign, and they will have to coordinate with the Trees and Greenery Committee.
- 8. On Sheet C4 they have extended the sprinkler room.
- 9. The streetlight is currently shown being connected to the Eversource box. They will insert a pole box right next to the structure and run a new pole box right into the light fixture across the street.

- 10. On Sheet C5 they have updated the note to say extend existing water stubs to building.
- 11. They will add City standard lighting details to the plan set.
- 12. They have submitted a turning template in the most recent submission.
- 13. They will pay the stated contribution for the corridor signal system.
- 14. Mr. Parker met with the Trees and Greenery Committee on September 14th to go over the tree and tree grate details and they approved of what was proposed.

[56:47] Mr. Desfosses expressed concern for the width of the garage door as it pertains to the turning templates. The applicant will work with Mr. Eby to determine the minimum width needed for the entrance.

[57:58] Mr. Chagnon mentioned that they are proposing on the utility plan that they will be placing another junction manhole on the 163 Deer Street property.

[58:53] Mr. Chagnon said that there will be a second easement put into place for an Eversource manhole that will be for pulling wires through for the new transformer in the northeast corner. This will be the second easement for Eversource, and it will be noted in the plan.

[1:00:05] Mr. Parker gave an overview of the community space and what it will look like. It will be defined by a historical-themed metal screen that will replicate the urban renewal history of the west end of Portsmouth. It will be a passive urban park with many trees, a stormwater infiltration area and three different sitting areas. It will be ADA accessible.

[1:03:32] Mr. Cracknell shared his concerns about how the current design of the metal screen might not be very inviting to a passerby. This could be fixed by reducing the length of the screen so that it does not wrap around three sides and by making it easier to walk through. This public pocket park needs to be obvious to passersby that it is public access space.

[1:05:15] Mr. Parker stated that they had discussed using poly-wrap on the transformers with Eversource, but they rejected that idea and said it was not allowed in this area. This would have screened the transformers. They are open to redesigning the edge of the walkway to cut into some of the greenspace and round the corner so there is a better view of the park from the outside.

[1:13:21] Mr. Eby brought up that the driveway needs some sort of device to let traffic and pedestrians know that someone is exiting the driveway and entering traffic.

PUBLIC HEARING

[1:14:03] Chair Stith opened the public comment portion of the hearing. No one spoke. The public hearing was closed.

DISCUSSION AND DECISION OF THE BOARD

[1:19:01] Mr. Desfosses made a motion to recommend this project to the Planning Board with the following conditions:

Conditions to be satisfied prior to the Planning Board Submittal date:

1. Applicant will update plan set to reflect proposed 70 Maplewood address.

2. Applicant will update landscaping plan to add additional tree to northern corner of the property as presented to TAC at the 11/1 meeting.

3. Applicant will update the demolition plan to show existing water and sewer service is terminated at the main. Updates to be reviewed by Department of Public Works.

4. New proposed location of wayfinding sign (Sheet C-3) will be reviewed and approved by Department of Public Works.

5. New layout of the sprinkler room will be reviewed and approved by Department of Public Works.

6. Applicant will update street lighting circuit to originate from a streetlight or street light pull box for Department of Public Works review and approval.

7. Updated language pertaining to extending existing water stubs to building (call out box in southern corner of proposed building, sheet C-5) will be reviewed and approved by DPW.

8. Applicant will update standard light pole detail to be consistent with the City standard pole detail for Department of Public Works review and approval.

9. Applicant will work with Eric Eby to determine proper width of parking level entrance. 10. Applicant will make a \$50,000 contribution to the Maplewood Avenue corridor video detection signal system.

11. Applicant will include all approvals from Trees and Greenery with the updated submission 12. Applicant will update plans to include revised existing easement and proposed easement(s) with Eversource and will coordinate with the Department of Public Works to create a new easement around the drain line to the west of the building if needed. Applicant will also confirm how access rights are being provided across adjacent lot and provide an access easement if needed. If total number of easements equals 3 or more, applicant will provide an easement plan with unique identifiers and corresponding table.

13. Applicant will update plans, related notes, and detail sheets to include a pedestrian and vehicle warning at the garage entrance to be reviewed and approved by Department of public works.

14. Applicant will present a redesign of the pocket park entrance at Maplewood Avenue to increase radii of walkway and encourage better pedestrian circulation to Nick Cracknell in the Planning Department.

15. Applicant will provide a letter with their next submission addressing the changes that have been made to the plan set as a result of the TAC stipulations of approval or further project development.

Mr. Howe seconded the motion. The motion passed unanimously.

G. The request of **Seaport Realty LLC (Owner)**, for property located at **85 Daniel Street** requesting Site Plan Approval to add a two-story rear addition and convert the existing structure into a four unit building consisting 2 apartments and 2 live/work units with associated stormwater, utility and site improvements. Said property is shown on Assessor Map 107 as Lot 8 and lies within the Character District 4 (CD4) and Historic Districts. (LU-22-75)

[1:20:30] Chair Stith introduced this project.

SPEAKING TO THE APPLICATION

[1:20:59] Chris Mulligan from Bosen and Associates, Mark Gianniny and Richard Desjardins from McHenry Architecture and the owner of the property Nate Cheney. Mr. Mulligan stated that the significant changes that occurred since the previous TAC meeting include what is shown in the new site plans. They are proposing to install parking lifts in the covered garage to meet a total of six off street parking spaces. They have reworked the basement egress stairway to bring it into compliance. The other changes requested were addressed in the submission and were relatively minor. They provided hard copies to TAC members during the meeting that showed greater detail on the proposed parking lifts.

[1:24:23] Mr. Cracknell asked the applicants why the garage stepped down from the ceiling.

Mr. Gianniny responded that it is likely for allowing drainage of the deck space above.

[1:24:45] Mr. Cracknell asked if there was a sensor proposed for the ceiling of the garage to prevent the car lifts from hitting the ceiling.

Mr. Gianniny responded that he hadn't looked that far into the specifications of the controls.

[2:25:37] Mr. Eby asked how people were supposed to enter the garage, whether through the garage or internally.

Mr. Gianniny responded that it would be either the garage door or the one leading from the center corridor internally.

[1:26:05] Mr. Howe asked if they planned for twenty inches on either side of the slip machine.

Mr. Gianniny responded that he did not know off the top of his head.

[1:27:05] Mr. Wolph expressed his concern that vehicle owners will only have twenty inches to spare to get out of their vehicle and get into the apartment. It was clarified that it would only be twenty inches in one area between the hydraulic post and the wall.

[1:27:47] Mr. Howe asked what the width was from the edge of the post to the edge of the ramp.

[1:28:10] Mr. Desjardins responded that it is another added foot roughly from the runaways.

[1:33:51] Mr. Cracknell asked if the units were going to be apartments or condos.

Mr. Cheney responded that they will be apartments to begin with and then will likely turn to condos. His intention is to rent out each unit.

[1:34:31] Mr. Wolph asked for clarification on the spacing inside the garage with the car lift system centered. He raised a concern for space that residents have upon entering the garage and having potentially only ten inches between themselves and the lift system.

[1:36:04] Mr. Cracknell asked how the garage door would open and close and where it would ultimately slide, stating that they may need a hinge or barn-style door.

[1:39:15] Mr. Wolph noted that the lift needs to meet the most recent international building code standards that apply.

PUBLIC HEARING

[1:39:48] Chair Stith opened the public comment portion of the hearing. No one spoke. The public hearing was closed.

DISCUSSION AND DECISION OF THE BOARD

[1:44:08] Mr. Howe made a motion to recommend approval to the Planning Board with the following condition:

To be satisfied prior to the Planning Board submittal date:

1. Applicant will work with Fire and Building department to confirm proposed lift system is compliant with building and life safety codes or will request a parking Conditional Use Permit.

Mr. Britz seconded the motion. The vote was unanimous.

III. NEW BUSINESS

A. The request of Jonanthan Watson Sobel Revocable Trust (Owner), for property located at 49 Sheafe Street requesting preliminary and final subdivision approval to subdivide one (1) lot with an area of 5,402 s.f. and 50.55 ft. of continuous street frontage on Sheafe Street and 22.93 feet of frontage on Custom House Court into two (2) lots as follows: Proposed lot 1 with an area of 1,855 s.f. and 22.93 ft. of continuous street frontage on Custom House Court; and Proposed Lot 2 with an area of 3,548 s.f. and 50.55 ft of continuous street frontage on Sheafe Street frontage on Sheafe Street. Said property is shown on Assessor Map 107 Lot 21 and lies within the CD4 and Historic Districts. (LU-22-179)

[1:44:36] Chair Stith introduced this project.

SPEAKING TO THE APPLICATION

[1:45:35] John Chagnon of Ambit Engineering and Chris Mulligan of Bosen and Associates presented this application with the property owner, Johnathan Sobel attending virtually. This application came from a work session with TAC, and they have worked through previous comments to incorporate changes into their newest plans. They have included dimensional

requirements in note seven, all proposed easements in an easement plan, and a new water service plan.

[1:49:07] Mr. Howe asked the applicant if they have explored the addressing issue and mentioned that one lot should be a Custom House Court address.

Mr. Chagnon responded that the address issue had been addressed and that Lot 1 would still have a Sheafe Street address.

[1:52:19] Mr. Howe asked that a note be added to the plans that says that addressing will be discussed by DPW and the fire department.

[1:57:10] Mr. Cracknell suggested that the address be moved after the approval from the Planning Board but prior to recordation and then there would be no zoning violation.

Further discussion commenced on the reasons for a new address being needed, including safety issues and police/fire access along with setback requirements.

[2:13:29] Ms. Zendt announced that TAC will be recommending a site walk for this application.

[2:14:25] Mr. Cracknell made a motion to continue consideration to the December TAC meeting in order to conduct a site walk. Mr. Desfosses seconded the motion. The vote was unanimous.

DISCUSSION AND DECISION OF THE BOARD

B. The request of **One Market Square LLC (Owner)**, for property located at **1 Congress Street** requesting Site Plan Review approval for the partial demolition and expansion of the existing structure to construct a 3-story building with 58,780 square feet of gross floor area, 12,080 square foot building footprint, 13 parking spaces, and associated onsite and offsite improvements. Said property is shown on Assessor Map 117 Lot 14 and lies within the Character District 4 (CD4), Character District 5 (CD5), Downtown Overlay (DOD), and Historic District. (LU-22-12)

[2:16:34] Chair Stith introduced this project.

SPEAKING TO THE APPLICATION

[2:17:16] John Chagnon of Ambit Engineering, Mark McNabb the developer, Tracy Kozak the project architect and Terrence Parker the landscape architect came to present this application. Mr. Chagnon went over the comments received the day prior from staff.

- 1. They are expecting that this project will require a CMMP plan and the only license agreements they see will be the awnings on the sidewalk.
- 2. The catenary lights over the streets would be some form of an easement or license.
- 3. They do not anticipate any licensing needed for street work.
- 4. They will be closing High Street to do underground utility work on the street.

5. The applicant is waiting on City staff to inform them of off-site improvements needed and they are proposing to get rid of the curbs on High Street and make it similar to Chestnut Street.

[2:25:13] Mr. Cracknell asked Mr. McNabb if he was still considering off-site improvements to Ladd Street.

Mr. McNabb responded that they were still considering it, but their main concern is that they have tried all year to get feedback from the City and they would like to improve it. At some point Mr. McNabb needs to move forward with none of the off-site improvements.

[2:26:34] Mr. Cracknell assured Mr. McNabb that the City will gather a group to address these issues that will convene to work through the proposed plans quickly and be in contact with Mr. McNabb. He also confirmed that the new street would eventually be handed over to the City for long term maintenance like how Chestnut Street was handled.

[2:28:42] Mr. Desfosses expressed his concern for the staircase that leads down to Fleet Street because there would be no place to clear or store snow.

Mr. McNabb responded that he is willing to take care of the snow storage and removal in that area.

[2:30:20] Mr. Chagnon continued listing off and responding to the comments from staff. He stated that they will provide an updated average grade plan and building height plan. In response to the comment about dumpster placement, Mr. McNabb said they are open to moving the dumpster locations. They will meet separately with DPW to discuss some items, including lighting options. They intend to meet ADA compliance with the serpentine handrail in the alleyway.

[2:39:57] Mr. Cracknell reminded the applicant that they need to go back to the Historic District Commission for the modifications.

Mr. McNabb responded that they have refiled their application with the HDC.

PUBLIC HEARING

[2:41:12] Chair Stith opened the public comment portion of the hearing. No one spoke. The public hearing was closed.

DISCUSSION AND DECISION OF THE BOARD

[2:41:27] Mr. Cracknell made a motion to continue this application to the next TAC meeting. Mr. Cronin seconded the motion.

IV. OTHER BUSINESS

V. ADJOURNMENT

[2:41:38] Mr. Cronin made a motion to adjourn the meeting. The motion was seconded by Mr. Desfosses. The vote was unanimous.

The meeting adjourned at 4:42 pm.

Respectfully submitted,

Kate E. Homet Secretary for the Technical Advisory Committee

AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS

200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

1 November 2022

Peter Stith, TAC Committee Chair City of Portsmouth 1 Junkins Avenue Portsmouth, NH 03801

RE: Application for Subdivision Approval, Tax Map 107, Lot 21, 49 Sheafe Street

Dear Mr. Stith and TAC Members:

On behalf of the Jonathan Watson Sobel Revocable Trust, we are pleased to submit the attached Response to Comments Letter based on the October 31, 2022, email from the Planning Department. The project plans have been revised to reflect changes were noted below. The comments are listed below with our response in **bold text**:

- 1. Note 7 needs to include dimensional requirements. Note this is a requirement of both the subdivision checklist and the subdivision regulations. Note 7 has been updated to include important dimensional requirements.
- 2. Please identify the mechanism for creating easements for lots under common ownership. Attached are the proposed deeds of conveyance.
- 3. Please clarify which statements in Note 8 go to each easement on the Easement Plan. The Easement Plan has been revised to include specific Notes 10 and 11.
- 4. Applicant must show new water service servicing Lot 1 on plan for City to approve location. Existing line servicing Lot 1 to be abandoned. **Please find attached a proposed Water Service Plan with addition to Note 12 on Subdivision Plan.**

We look forward to the review of this submission and Staff / City Department input on this project.

Sincerely,

John Chagnon

John R. Chagnon, PE CC: Jonathan Sobel, Attorney John Bosen

Lot 1 Proposed Deed

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS, that **Jonathan W. Sobel, Trustee of the Jonathan Watson Sobel Revocable Trust**, having an address of 49 Sheafe Street, Portsmouth, New Hampshire 03801, grants to ______, having an address of ______, all right, title and interest in and to the following property:

A certain tract or parcel of land in Portsmouth, Rockingham County, New Hampshire, depicted as Lot 1 on a plan entitled "Subdivision Plan, Tax Map 107 – Lot 21, Land Of: The Jonathan Watson Sobel Revocable Trust, Property Located At: 49 Sheafe Street, City of Portsmouth, County of Rockingham, State of New Hampshire" prepared by Ambit Engineering, Inc., dated July 2022, and recorded at the Rockingham County Registry of Deeds as Plan D- ______ (the "Plan"). The said Lot 1 is more particularly bounded and described on the Plan as follows:

Beginning at a point along the brick sidewalk running along the northerly sideline of Sheafe Street at the easterly corner of land now or formerly of Thomas M. Bertrand; Thence running North 24°22'58" West a distance of 49.15 feet to a point at the northerly

corner of land now or formerly of Thomas M. Bertrand;

Thence turning and running South 68°17'52" West a distance of 49.75 feet to an iron rod with "Easterly" cap found, up 5";

Thence turning and running North 47°40'34" West a distance of 12.95 feet to an iron rod with cap found, flush;

Thence turning and running North 20°27'33" West a distance of 9.98 feet to an iron rod with cap found, flush;

Thence turning and running North 63°48'07" East a distance of 23.44 feet to an iron rod with "Easterly" cap found, up 2";

Thence turning and running North 20°41'15" West a distance of 7.62 feet to an iron rod with "Easterly" cap found, up 5";

Thence turning and running North 66°15'33" East along land now or formerly of Karen P. Wiese a distance of 30.40 feet to a point;

Thence turning and running South 23°57'53" East along land now or formerly of JTM Realty LLC a distance of 11.70 feet to a point;

Thence turning and running North 66°40'36" East along land now or formerly of JTM Realty LLC, a distance of 6.75 feet to a point;

Thence turning and running South 23°28'10" East along Lot 2 as shown on the Plan a distance of 19.34 feet to a point;

Thence turning and running South 19°51'30" East along Lot 2 as shown on the Plan a distance of 20.92 feet to a point;

Thence turning and running South 21°44'25" East along Lot 2 as shown on the Plan a distance of 29.73 feet to a point;

Thence turning and running South 71°49'01" West a distance of 3.54 feet to the easterly corner of land now or formerly of Thomas M. Bertrand and the point and place of beginning.

Conveyed TOGETHER WITH a Building Maintenance Easement as shown on the Plan. The easement area is depicted as "Proposed Building Maintenance Easement – 77 S.F." on a plan entitled "Easement Plan, Tax Map 107 – Lot 21, Land Of: The Jonathan Watson Sobel Revocable Trust, Property Located At: 49 Sheafe Street, City of Portsmouth, County of Rockingham, State of New Hampshire" prepared by Ambit Engineering, Inc., dated September 2022, and recorded at the Rockingham County Registry of Deeds as Plan D-______ (the "Easement Plan"). The easement area is more particularly bounded and departition on the Easement Plan as follows:

and described on the Easement Plan as follows:

Beginning at the northwesterly corner of Lot 2 as shown on the Easement Plan; Thence turning and running North 66°40'36" East a distance of 3.15 feet to a point; Thence turning and running South 23°28'10" East a distance of 24.30 feet to a point; Thence turning and running South 0°08'30" West a distance of 3.46 feet to a point; Thence turning and running North 19°51'30" West a distance of 4.76 feet to a point; Thence turning and running North 23°28'10" West a distance of 19.34 feet to the northwesterly corner of Lot 2 and the point and place of beginning.

Conveyed SUBJECT TO that certain Building Maintenance, Access & Utility Easement depicted as "Proposed Building Maintenance, Access & Utility Easement – 161 S.F." on the Easement Plan. The easement area is more particularly bounded and described on the Easement Plan as follows:

Beginning at a point at the southerly corner of Lot 2 as shown on the Easement Plan; Thence running South 71°49'01" West a distance of 3.54 feet to a point; Thence turning dan running North 24°22'58" West a distance of 36.33 feet to a point; Thence turning and running North 63°24'58" East a distance of 5.47 feet to a point; Thence turning and running South 19°51'30" East a distance of 7.25 feet to a point; Thence turning and running South 21°44'25" East a distance of 29.73 feet to the southerly corner of Lot 2 and the point and place of beginning.

Meaning and intending to describe and convey (i) a portion only of the property conveyed to Jonathan W. Sobel, Trustee of The Jonathan Watson Sobel Revocable Trust by Fiduciary Deed of Bernard W. Pelech and Robert W. Brewster, co-Executors of the Estate of Jay M. Smith, dated March 14, 2003, and recorded at the Rockingham County Registry of Deeds at Book 3947, Page 2066; and (ii) all and the same property conveyed to Jonathan W. Sobel, Trustee of The Jonathan Watson Sobel Revocable Trust by Quitclaim Deed of John C. Russo, dated August 11, 2006, and recorded at the Rockingham County Registry of Deeds at Book 4712, Page 398.

HOMESTEAD PROPERTY?

TRUSTEE CERTIFICATE

The undersigned, Jonathan W. Sobel, in his capacity as Trustee of The Jonathan Watson Sobel Revocable Trust, established by Agreement dated _______, has full and absolute power under said Trust Agreement to convey any interest in real estate and improvements thereon held in said Trust and no purchaser or third party shall be bound to inquire whether the Trustee has said power or is properly exercising said power or to see to the application of any Trust asset paid to the Trustee for a conveyance thereof.

Witness my hand this _____ day of _____ 2022.

The Jonathan Watson Sobel Revocable Trust

By:

Jonathan W. Sobel, Trustee

STATE OF NEW HAMPSHIRE COUNTY OF ROCKINGHAM

The foregoing instrument was acknowledged before me on ______, 2022, by Jonathan W. Sobel, Trustee of The Jonathan Watson Sobel Revocable Trust.

NOTARY PUBLIC My Commission Expires:

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS, that **Jonathan W. Sobel, Trustee of the Jonathan Watson Sobel Revocable Trust**, having an address of 49 Sheafe Street, Portsmouth, New Hampshire 03801, grants to ______, having an address of ______, all right, title and interest in and to the following property:

A certain tract or parcel of land in Portsmouth, Rockingham County, New Hampshire, depicted as Lot 2 on a plan entitled "Subdivision Plan, Tax Map 107 – Lot 21, Land Of: The Jonathan Watson Sobel Revocable Trust, Property Located At: 49 Sheafe Street, City of Portsmouth, County of Rockingham, State of New Hampshire" prepared by Ambit Engineering, Inc., dated July 2022, and recorded at the Rockingham County Registry of Deeds as Plan D- _____ (the "Plan"). The said Lot 2 is more particularly bounded and described on the Plan as follows:

Beginning at a point along the brick sidewalk running along the northerly sideline of Sheafe Street at the southerly corner of the said Lot 2;

Thence running North 21°44'25" West a distance of 29.73 feet to a point; Thence turning and running North 19°51'30" West a distance of 20.92 feet to a point; Thence turning and running North 23°28'10" West a distance of 19.34 feet to a point; Thence turning and running North 66°40'36" East along land now or formerly of JTM Realty LLC, a distance of 37.51 feet to a point;

Thence turning and running North 70°52'21" East along land now or formerly of 117-123 Daniel Street Condominium, a distance of 11.58 feet to a drill hole found in a concrete wall; Thence turning and running South 20°09'47" East a distance of 17.51 feet to a point; Thence turning and running South 23°32'21" East a distance of 56.14 feet to a point; Thence turning and running South 71°49'01" West along a brick sidewalk running along the northerly sideline of Sheafe Street to the point and place of beginning.

SUBJECT TO a Building Maintenance Easement for the benefit of Lot 1 as shown on the Plan. The easement area is depicted as "Proposed Building Maintenance Easement – 77 S.F." on a plan entitled "Easement Plan, Tax Map 107 – Lot 21, Land Of: The Jonathan Watson Sobel Revocable Trust, Property Located At: 49 Sheafe Street, City of Portsmouth, County of Rockingham, State of New Hampshire" prepared by Ambit Engineering, Inc., dated September 2022, and recorded at the Rockingham County Registry of Deeds as Plan D-_____ (the "Easement Plan"). This easement is a no-build easement and the owner of the property conveyed herein shall not build any structures within the easement area. The easement area is more particularly bounded and described on the Easement Plan as follows:

Beginning at the northwesterly corner of Lot 2 as shown on the Easement Plan; Thence turning and running North $66^{\circ}40'36''$ East a distance of 3.15 feet to a point; Thence turning and running South $23^{\circ}28'10''$ East a distance of 24.30 feet to a point; Thence turning and running South $0^{\circ}08'30''$ West a distance of 3.46 feet to a point; Thence turning and running North $19^{\circ}51'30''$ West a distance of 4.76 feet to a point; Thence turning and running North $23^{\circ}28'10''$ West a distance of 19.34 feet to the northwesterly corner of Lot 2 and the point and place of beginning.

Also conveyed TOGETHER WITH that certain Building Maintenance, Access & Utility Easement depicted as "Proposed Building Maintenance, Access & Utility Easement – 161 S.F." on the Easement Plan. The easement area is more particularly bounded and described on the Easement Plan as follows:

Beginning at a point at the southerly corner of Lot 2 as shown on the Easement Plan; Thence running South 71°49'01" West a distance of 3.54 feet to a point; Thence turning dan running North 24°22'58" West a distance of 36.33 feet to a point; Thence turning and running North 63°24'58" East a distance of 5.47 feet to a point; Thence turning and running South 19°51'30" East a distance of 7.25 feet to a point; Thence turning and running South 21°44'25" East a distance of 29.73 feet to the southerly corner of Lot 2 and the point and place of beginning.

Meaning and intending to describe and convey a portion only of the property conveyed to Jonathan W. Sobel, Trustee of The Jonathan Watson Sobel Revocable Trust by Fiduciary Deed of Bernard W. Pelech and Robert W. Brewster, co-Executors of the Estate of Jay M. Smith, dated March 14, 2003, and recorded at the Rockingham County Registry of Deeds at Book 3947, Page 2066.

HOMESTEAD PROPERTY?

TRUSTEE CERTIFICATE

The undersigned, Jonathan W. Sobel, in his capacity as Trustee of The Jonathan Watson Sobel Revocable Trust, established by Agreement dated ______, has full and absolute power under said Trust Agreement to convey any interest in real estate and improvements thereon held in said Trust and no purchaser or third party shall be bound to inquire whether the Trustee has said power or is properly exercising said power or to see to the application of any Trust asset paid to the Trustee for a conveyance thereof.

Witness my hand this _____ day of _____ 2022.

The Jonathan Watson Sobel Revocable Trust

By:

Jonathan W. Sobel, Trustee

STATE OF NEW HAMPSHIRE COUNTY OF ROCKINGHAM

The foregoing instrument was acknowledged before me on _____, 2022, by Jonathan W. Sobel, Trustee of The Jonathan Watson Sobel Revocable Trust.

NOTARY PUBLIC My Commission Expires:

NOTES:

mmmmm

NEWHA

1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.

2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).









EASEMENT LENGTH TABLE

₫. ₫

5' WOOD 4

⊲ ⊽

#37

ROOF

F		
LINE	BEARING	DISTANCE
E1	S71°49'01"W	3.54'
E2	N24°22'58"W	36.33'
E3	N63°24'58"E	5.47'
E4	S19°51'30"E	7.25'
E5	S21°44'25"E	29.73 '
E6	N66°40'36"E	3.15'
E7	S23°28'10"E	24.30'
E8	S70°08'30"W	3.46'
E9	N19°51'30"W	4.76'
E10	N23°28'10"W	19.34'





JOHN R. CHAGNON, LLS #738

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

DATE

DATE



NORTH MAD83(2011)	AMBIT ENGINEERING, I Civil Engineers & Land Surveyo 200 Griffin Road - Unit 3- Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315	NC.
CRID WHSPC	NOTES: 1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOT 21. 2) OWNERS OF RECORD: JONATHAN WATSON SOBEL REVOCABLE TRUST	
	JONATHAN W. SOBEL TRUSTEE 49 SHEAFE STREET PORTSMOUTH, NH 03801 4712/0398 & 3947/2066 D-34170	
	 a) PARCEL IS NOT IN A FLOOD HAZARD ZONE AS SON FIRM PANEL 33015C0259F. EFFECTIVE DATE 1/29 4) EXISTING LOT AREA: 	/2021.
	5,402 S.F. 0.1240 ACRES 5) PROPOSED LOT AREAS:	
	LOT Z. 1,855 S.F. 3,548 S.F. 0.0426 ACRES 0.0814 ACRES 6) PARCEL IS LOCATED IN (CD4) CHARACTER DISTRICT	CT 4.
	 7) DIMENSIONAL REQUIREMENTS: SEE CITY OF PORTSMOUTH ZONING ORDINANG 	CE
	8) THE PURPOSE OF THIS PLAN IS TO SHOW THE LOCATION OF PROPOSED BUILDING MAINTENANCE, ACC UTILITY EASEMENTS ON ASSESSORS MAP 107 LOT 21 SUBDIVIDED.	ESS & AS
	10) BUILDING MAINTENANCE, ACCESS & UTILITY EASEN OVER ASSESSOR'S MAP 107 LOT 21-01 TO BENEFIT ASSESSOR'S MAP 107 LOT 21-00.	I ENT
	11) BUILDING MAINTENANCE EASEMENT OVER ASSESSO MAP 107 LOT 21-00 TO BENEFIT ASSESSOR'S MAP LOT 21-01.	DR'S 107
•		
	1ABUTTERS, NOTES100ISSUED FOR COMMENT9/NODESCRIPTION	/28/22 /26/22
	REVISIONS	DAIL
	EASEMENT PLAN TAX MAP 107 - LOT 21	
	THE JONATHAN WATSON SOBEL REVOCABLE TRUS	I T
	PROPERTY LOCATED AT: 49 SHEAFE STREET CITY OF PORTSMOUTH	
	COUNTY OF ROCKINGHAM STATE OF NEW HAMPSHIRE	F 2022
	FB 411 PG 6	3480

AMBIT ENGINEERING, INC.

CIVIL ENGINEERS AND LAND SURVEYORS

200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

18 October 2022

Peter Stith, TAC Committee Chair City of Portsmouth 1 Junkins Avenue Portsmouth, NH 03801

RE: Request for Site Plan Approval at 1 Congress Street, Proposed Site Development

Dear Mr. Stith and TAC Members:

On behalf of Mark McNabb and One Market Square, LLC we are pleased to submit the attached plan set for <u>Site Plan</u> review for the above-mentioned project and request that we be placed on the agenda for your <u>November 1, 2022</u> TAC Meeting. The project includes the re-use of the existing commercial buildings at 1 and 3 Congress Street, some existing building demolition, and proposed new construction of a 3 Story Structure with Attic Hip Top Mansard Roof to the rear of the existing building is currently a surface parking lot. The surface parking will be lowered to below street level and be included with the new construction.

The plans show the elimination of raised curbs in High Street, similar to what was accomplished on Chestnut Street. The developer also recognizes that the project will require utility and drainage infrastructure improvements on High Street. The Haven Court / Alley to Fleet Street corridor is also shown as being improved at the developer's expense. The use of this corridor as a pedestrian walkway is a benefit to both the city and the developer; and the developer is willing to include all of the improvements as a part of this site plan proposal.

The following plans are included in our submission:

- Cover Sheet This shows the Development Team, Legend, Site Location, and Site Zoning.
- Standard Boundary Survey Plan This plan shows the existing property boundaries. The survey was performed before the lot merger; the lots have been officially merged. The site is still bifurcated by a Zoning District boundary line along the old property line.
- Existing Conditions Plan C1 This plan shows the existing site conditions in detail.
- Demolition Plan C2 This plan shows portions of the existing buildings and other site features which will be removed.
- Project Site Plan C3 This plan shows the site development and proposed building placement. The plan shows contemplated changes to High Street. High Street currently has a width that does not allow for sufficient sidewalks on both sides. The project proposes to eliminate parking, lower the curbs, and create pedestrian friendly wide sidewalks.
- Architectural Plans These are Floor Plans, Roof Plan, Building Elevations and Rendered Views of the proposed building.

- Landscape Plans These plans shows proposed features for the public spaces both high street and the pedestrian alley; with lighting and details.
- Utility Plan C4 This plan shows proposed site utilities. High Street is contemplated to have new utilities constructed since there will be a complete street makeover.
- Grading Plan C5 This plan shows proposed site grading. High Street is shown as being brought all to one surface level similar to Chestnut Street. The Haven Court alley is graded as it is today.
- Parking Level Plan C6 This plan shows the layout of the parking (basement) level with required parking calculations.
- Offsite Utility Plan Alley C7 This plan shows a proposed off-site gas utility connection.
- Offsite Grading Alley C8 This plan shows grading on Haven Court.
- Detail Sheets D1 D6 These plans show site details.

Also please find attached the following in support of the Application:

- Letter of Authorization
- Site Plan Checklist
- Construction Cost Estimate
- Dimensional Conformance Tables
- Building Area Summary
- Green Building Statement
- Parking Summary
- Proposed Planting List
- Gas Service Will Serve Letter
- Complete Drainage Analysis

We look forward to the review of this submission and Staff / City Department input on this project.

Sincerely,

John Chagnon

John R. Chagnon, PE CC: Mark McNabb, Tracy Kozak, Terrance Parker, FX Bruton



December 27, 2021

AUTHORIZATION One Market Square, LLC One Congress Street, Portsmouth New Hampshire 03801

I, Mark A. McNabb, manager and member of One Market Square, LLC, as owner of two parcels of land located in the City of Portsmouth on Tax Assessor Map U117 Lot 14 and Lot 15, hereby authorize Tracy Kozak from Arcove, LLC., as project architect, and John Chagnon from Ambit Engineering, to represent our interests before land use boards of the City of Portsmouth and any State of New Hampshire or federal agency necessary to obtain regulatory approvals and permits and to submit any applications and materials related to the above referenced property on our behalf.

Mark A. McNabb, Manager & Member

Date: December 27, 2021



City of Portsmouth, New Hampshire

Site Plan Application Checklist

This site plan application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Planning Board review. The checklist is required to be completed and uploaded to the Site Plan application in the City's online permitting system. A preapplication conference with a member of the planning department is strongly encouraged as additional project information may be required depending on the size and scope. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all site plan review requirements. Please refer to the Site Plan review regulations for full details.

Applicant Responsibilities (Section 2.5.2): Applicable fees are due upon application submittal along with required attachments. The application shall be complete as submitted and provide adequate information for evaluation of the proposed site development. Waiver requests must be submitted in writing with appropriate justification.

Name of Applicant: One Market Square, LLC Date Submitted: 10/18/2022

Application # (in City's online permitting): _____

Site Address: 1 Congress Street

_____ Map: 117 __ Lot: 14 & 15

	Application Requirements				
Ŋ	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)	Waiver Requested		
	Complete <u>application</u> form submitted via the City's web-based permitting program (2.5.2.1 (2.5.2.3A)	Online	N/A		
	All application documents, plans, supporting documentation and other materials uploaded to the application form in viewpoint in digital Portable Document Format (PDF). One hard copy of all plans and materials shall be submitted to the Planning Department by the published deadline. (2.5.2.8)	Online	N/A		

	Site Plan Review Application Required Information				
Ŋ	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested		
	Statement that lists and describes "green" building components and systems. (2.5.3.1B)	See Letter			
	Existing and proposed gross floor area and dimensions of all buildings and statement of uses and floor area for each floor. (2.5.3.1C)	Sheet C3	N/A		
	Tax map and lot number, and current zoning of all parcels under Site Plan Review. (2.5.3.1D)	Cover Sheet	N/A		

	Site Plan Review Application Required Info	Site Plan Review Application Required Information				
Ŋ	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested			
	Owner's name, address, telephone number, and signature. Name, address, and telephone number of applicant if different from owner. (2.5.3.1E)	Cover Sheet	N/A			
	Names and addresses (including Tax Map and Lot number and zoning districts) of all direct abutting property owners (including properties located across abutting streets) and holders of existing conservation, preservation or agricultural preservation restrictions affecting the subject property. (2.5.3.1F)	Boundary Survey	N/A			
	Names, addresses and telephone numbers of all professionals involved in the site plan design. (2.5.3.1G)	Cover Sheet	N/A			
	List of reference plans. (2.5.3.1H)	Boundary Survey	N/A			
	List of names and contact information of all public or private utilities servicing the site. (2.5.3.1)	Cover Sheet	N/A			

	Site Plan Specifications				
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested		
	Full size plans shall not be larger than 22 inches by 34 inches with match lines as required, unless approved by the Planning Director (2.5.4.1A)	Required on all plan sheets	N/A		
	Scale: Not less than 1 inch = 60 feet and a graphic bar scale shall be included on all plans. (2.5.4.1B)	Required on all plan sheets	N/A		
	GIS data should be referenced to the coordinate system New Hampshire State Plane, NAD83 (1996), with units in feet. (2.5.4.1C)	Boundary Survey Plan	N/A		
	Plans shall be drawn to scale and stamped by a NH licensed civil engineer. (2.5.4.1D)	Required on all plan sheets	N/A		
	Wetlands shall be delineated by a NH certified wetlands scientist and so stamped. (2.5.4.1E)	N/A	N/A		
	Title (name of development project), north point, scale, legend. (2.5.4.2A)	Cover Sheet	N/A		
	Date plans first submitted, date and explanation of revisions. (2.5.4.2B)	Each Sheet	N/A		
	Individual plan sheet title that clearly describes the information that is displayed. (2.5.4.2C)	Required on all plan sheets	N/A		
	Source and date of data displayed on the plan. (2.5.4.2D)	Sheet C1	N/A		

	Site Plan Specifications – Required Exhibits and Data				
Ŋ	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested		
	 Existing Conditions: (2.5.4.3A) Surveyed plan of site showing existing natural and built features; Existing building footprints and gross floor area; Existing parking areas and number of parking spaces provided; Zoning district boundaries; Existing, required, and proposed dimensional zoning requirements including building and open space coverage, yards and/or setbacks, and dwelling units per acre; Existing impervious and disturbed areas; Limits and type of existing vegetation; Wetland delineation, wetland function and value assessment (including vernal pools); SFHA, 100-year flood elevation line and BFE data, as required. 	Sheet C1			
	 2. Buildings and Structures: (2.5.4.3B) Plan view: Use, size, dimensions, footings, overhangs, 1st fl. elevation; Elevations: Height, massing, placement, materials, lighting, façade treatments; Total Floor Area; Number of Usable Floors; Gross floor area by floor and use. 	Sheet C3 & Architects Plans			
	 Access and Circulation: (2.5.4.3C) Location/width of access ways within site; Location of curbing, right of ways, edge of pavement and sidewalks; Location, type, size and design of traffic signing (pavement markings); Names/layout of existing abutting streets; Driveway curb cuts for abutting prop. and public roads; If subdivision; Names of all roads, right of way lines and easements noted; AASHTO truck turning templates, description of minimum vehicle allowed being a WB-50 (unless otherwise approved by TAC). 	Sheet C3			
	 4. Parking and Loading: (2.5.4.3D) Location of off street parking/loading areas, landscaped areas/buffers; Parking Calculations (# required and the # provided). 	Sheet C6			
	 5. Water Infrastructure: (2.5.4.3E) Size, type and location of water mains, shut-offs, hydrants & Engineering data; Location of wells and monitoring wells (include protective radii). 	Sheet C4			
	 6. Sewer Infrastructure: (2.5.4.3F) Size, type and location of sanitary sewage facilities & Engineering data, including any onsite temporary facilities during construction period. 	Sheet C4			

7. Utilities: (2.5.4.3G)	Shoot C4	
• The size, type and location of all above & below ground utilities;	Sheet C4	
 Size type and location of generator pads, transformers and other fixtures 		
8. Solid Waste Facilities: (2.5.4.3H)		
• The size, type and location of solid waste facilities.	Sheet C6	
9. Storm water Management: (2.5.4.3I)		
• The location, elevation and layout of all storm-water drainage.		
 The location of onsite snow storage areas and/or proposed off- site snow removal provisions. 	Sheet C5	
 Location and containment measures for any salt storage facilities 		
 Location of proposed temporary and permanent material storage 		
locations and distance from wetlands, water bodies, and		
stormwater structures.		
10. Outdoor Lighting: (2.5.4.3J)	Sheet C3	
 Type and placement of all lighting (exterior of building, parking lot and any other areas of the site) and at structure place 		
and any other areas of the site) and photometric plan.		
heen implemented (10.1)	N/A	
12. Landscaping: (2.5.4.3K)		
 Identify all undisturbed area, existing vegetation and that 	Landagana Plana	
which is to be retained;	Lanuscape Plans	
 Location of any irrigation system and water source. 		
13. Contours and Elevation: (2.5.4.3L)		
• Existing/Proposed contours (2 foot minimum) and finished	Sheet C5	
grade elevations.		
14. Open Space: (2.5.4.3M)	Sheet C3	
 Type, extent and location of all existing/proposed open space. 	Sheet 05	
15. All easements, deed restrictions and non-public rights of	Boundary Survey Plan	
ways. (2.5.4.3N)		
16. Character/Civic District (All following information shall be		
included): (2.5.4.3P)		
• Applicable Building Height (10.5A21.20 & 10.5A43.30);	Sheet C3	
Applicable Special Requirements (10.5A21.30);		
Proposed building form/ type (10.5A43);		
• Proposed community space (10.5A46).		
17. Special Flood Hazard Areas (2.5.4.3Q)		
• The proposed development is consistent with the need to		
minimize flood damage;	Ν/Α	
All public utilities and facilities are located and construction to		
minimize or eliminate flood damage;		
 Adequate drainage is provided so as to reduce exposure to fload basards 		
nood nazards.		

	Other Required Information				
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested		
	Traffic Impact Study or Trip Generation Report, as required. (3.2.1-2)	Report on file			
	Indicate where Low Impact Development Design practices have been incorporated. (7.1)	Drain Study			
	Indicate whether the proposed development is located in a wellhead protection or aquifer protection area. Such determination shall be approved by the Director of the Dept. of Public Works. (7.3.1)	N/A			
	Stormwater Management and Erosion Control Plan. (7.4)	Sheet D1			
	Inspection and Maintenance Plan (7.6.5)	Drain Study			

	Final Site Plan Approval Required Infor	mation	
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	 All local approvals, permits, easements and licenses required, including but not limited to: Waivers; Driveway permits; Special exceptions; Variances granted; Easements; Licenses. (2.5.3.2A) Exhibits, data, reports or studies that may have been required as part of the approval process, including but not limited to: Calculations relating to stormwater runoff; Information on composition and quantity of water demand and wastewater generated; Information on air, water or land pollutants to be discharged, including standards, quantity, treatment and/or controls; Estimates of traffic generation and counts pre- and post- construction; Estimates of noise generation; A Stormwater Management and Erosion Control Plan; Endangered species and archaeological / historical studies; Wetland and water body (coastal and inland) delineations; Environmental impact studies. 	Cover Sheet Drainage Analysis Other submitted studies	
	A document from each of the required private utility service providers indicating approval of the proposed site plan and indicating an ability to provide all required private utilities to the site. (2.5.3.2D)	To be provided	

	Final Site Plan Approval Required Infor	mation	
Ŋ	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	A list of any required state and federal permit applications required for the project and the status of same. (2.5.3.2E)	Cover Sheet	
	A note shall be provided on the Site Plan stating: "All conditions on this Plan shall remain in effect in perpetuity pursuant to the requirements of the Site Plan Review Regulations." (2.5.4.2E)	Cover Sheet & C3	N/A
	For site plans that involve land designated as "Special Flood Hazard Areas" (SFHA) by the National Flood Insurance Program (NFIP) confirmation that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334. (2.5.4.2F)	N/A	
	 Plan sheets submitted for recording shall include the following notes: a. "This Site Plan shall be recorded in the Rockingham County Registry of Deeds." b. "All improvements shown on this Site Plan shall be constructed and maintained in accordance with the Plan by the property owner and all future property owners. No changes shall be made to this Site Plan without the express approval of the Portsmouth Planning Director." (2.13.3) 	Sheet C3	N/A

Applicant's Signature: John Chagnon _____ Date: ______

Construction Cost Estimate

Ambit Engineering

Date:October 18, 2022Project:McNabb Properties, Ltd - 1 Congress STJob No: 3406Location:1 Congress Street, Portsmouth, NHScope:Site Cost Estimate

ITEM NO	DESCRIPTION	UNIT	AMOUNT	UNIT COST	TOTAL
Demolitio	n				
1	Building Demolition / Temporary Shoring	LS	1	\$50,000.00	\$50,000.00
2	Site Demolition	LS	1	\$10,000.00	\$10,000.00
Foundatio	on Prep				
3	Common Excavation	CY	4000	\$25.00	\$100,000.00
4	Foundation Base Preparation	CY	186	\$25.00	\$4,650.00
5	Shoring	LF	310	\$100.00	\$31,000.00
Sidewalk	& Street				
6	Congress Street Sidewalk Redo	SY	160	\$96.00	\$15,360.00
7	Brick Sidewalk	SY	307	\$150.00	\$46,050.00
8	Street Pavers	SY	758	\$225.00	\$170,550.00
9	Back Alley Brick	SY	138	\$150.00	\$20,700.00
10	Re-Set Curbing	LF	610	\$25.00	\$15,250.00
11	Re-Set Tip Down	LS	2	\$3,000.00	\$6,000.00
12	Landscape Areas	LS	1	\$10,000.00	\$10,000.00
Utilities					
13	Underground Electric / Conduit	LF	486	\$55.00	\$26,730.00
14	Light Pole	EA	3	\$6,000.00	\$18,000.00
15	Sewer Manhole	EA	2	\$6,500.00	\$13,000.00
16	Water Main and Services	LF	240	\$180.00	\$43,200.00
17	Communication Service	LF	80	\$55.00	\$4,400.00
18	Sewer Main and Service	LF	270	\$120.00	\$32,400.00
19	Gas Service	LF	212	\$85.00	\$18,020.00
20	Grease Trap	LS	1	\$9,000.00	\$9,000.00
Drainage					
21	Drain Lines	LF	132	\$80.00	\$10,560.00
22	Erosion Control	LS	1	\$2,500.00	\$2,500.00
23	Catch Basin	EA	3	\$6,500.00	\$19,500.00
	TOTAL				\$676,870

Note: This is an estimate of construction costs based upon various sources

ZONING DEVELOPMENT STANDARD cd4 (cd-4, dod, hdc): character district 4						
Height	2 stories with short 3rd = 35'	n/a	40' - 7 3/4"			
Penthouses	may exceed bldg height by 2'	n/a	n/a			
Roof appurtenance	may exceed bldg height by 10'	n/a	7' - 5 3/4"			
Façade Types	shopfront	n/a	yes			
	commercial, live-work, mixed use, flex					
Building Types	space & community.	n/a	mixed use (retail, office, apartments)			
	* 10.5A42.12 Yards may be increased					
	above the max permitted for truncated					
	corners or other subtractive massing					
	techniques, alleys, vehicular accessways,					
	increased sidewalk width or community					
Setbacks (ft) *	spaces.					
Front (principle) max	10	n/a	0'-0"			
Front (secondary) max	15	n/a	2'-4"			
Side	NR	n/a	n/a			
Rear, min	>of: 5' from rear line or 10' from cl alley	n/a	11' 2"			
Front lotline buildout	50% min	n/a	100.00%			
Lot area (sf)	NR		8,840			
LOT area per dwelling	NR	0	n/a			
Coverage, maximum	90%	0	65.6%			
Footprint, max*						
10.5a43.40	15,000	0	5,686			
*10.5A43.43 increase for						
indoor parking if >50%						
gr.floor parking & 30%						
lot is community space	30,000 ground (20,000 upper)		0			
Ground floor area per						
use, max	15,000		5,686			
Open space, minimum	10%		34.4%			
Permitted uses (cd4 &	multifamily, live/work, office, retail,					
cd5)	restaurant (<500occ)	surface parking lot	commercial retail			
Block length, max (ft)	200	n/a	168' - 0 3/4"			
Façade modulation						
length, max (ft)	80	n/a	77' - 3 7/8"			
Entrance spacing, max						
(ft)	50	n/a	39' - 10 3/8"			
Floor height above						
sidewalk, max	36"	n/a	16"			
Ground floor height, min	12'	n/a	13' 5 5/8"			
Second floor height, min	10'	n/a	11'-3"			
Glazing, shopfront, min	70%	n/a	70%			
Glazing, other	20%-50%	n/a	25%			
	flat, gable (6:12-12:12), hip(>3:12),					
Roof types(pitch)	gambrel/mansard(6:12-30:12)	n/a	hipped mansard			
	when >20 spaces, max spaces = 120%					
	min required. 10.1112.60 mixed used -					
Parking, off-street; DOD*	some shared spaces allowed.	19	12			
	UNIT<500SF=.5 space/unit; 500-750sf=1					
	space/unit; >750sf=1.3 space/unit. (+1					
Residential (dwellings)	visitor space/5 units)	N/A	10			
Professional office	NA in DOD	N/A	N/A			
* see CD-5 zoning chart for	or remainder of parking spaces					

ZONING	DEVEL	OPMENT	STANDARD
--------	-------	---------------	----------

ZONING DEVELOPMENT STANDARD						
CD5 (CD-5, DOD, HDC): CHARACTER DISTRICT 5						
	REQUIRED	EXISTING	PROPOSED			
Height	2-3 stories with short 4th = 45'	45' - 5 1/4"	40' - 7 3/4"			
Penthouses	may exceed bldg height by 2'	n/a	n/a			
Roof appurtenance	may exceed bldg height by 10'	8' 0 3/4"	7' - 5 3/4"			
Façade Types	shop front	yes	yes			
	commercial, live-work, mixed use, flex					
Building Types	space & community.	mixed use (retail, restaurant, office, apartments)	mixed use (retail, office, apartments)			
	* 10.5A42.12 Yards may be increased					
	above the max permitted for truncated					
	corners or other subtractive massing					
	techniques, alleys, vehicular accessways,					
a .1 1 (6) 4	increased sidewalk width or community					
Setbacks (ft) *	spaces.					
Front (principle) max	5	0'-0"	0'-0"			
Front (secondary) max	5	0'-0"	1'-6"			
Side	NR	0:-0"	N/R			
Poor min	Soft 5' from root line or 10' from al allow	0' 2'	0.00			
Rear, min	201: 5 from rear line or 10 from cralley	0-3	0.00			
	NR	100%	2 240			
LOT area por dwolling		7,200	8,840			
	05%	11/d 27 520/	00.19/			
Footprint max*	55%	57.52%	89.1%			
10 5a43 40	20.000	2 726	3 701			
10.5845.40	20,000	2,720	3,701			
*10 5A43 43 increase for						
indoor parking if >50%						
gr.floor parking & 30%						
lot is community space	50.000 ground (30.000 upper)	0	0			
Ground floor area per		-				
use, max	15,000	2,726	3,701			
Open space, minimum	5%	62.48%	10.9%			
	commercial, live/work, mixed-use, flex					
Permitted uses (cd4 &	space, community, office, retail,					
cd5)	restaurant (<500occ)	commercial, mixed use, office, retail & restaurant	COMMERCIAL (retail, restaurant, hotel lobby)			
Block length, max (ft)	225	168' - 0 3/4"	168' - 0 3/4"			
Façade modulation						
length, max (ft)	100	62' - 1 1/8"	22' - 11 1/8"			
Entrance spacing, max						
(ft)	50	49' - 7 1/4"	31' - 6 1/4"			
Floor height above						
sidewalk, max	36"	4"	4"			
Conversion of the second state of the	121					
Ground floor neight, min	12	12' - 8 3/8"	13' 5 5/8"			
Second floor boight min	10'	11' 3"	11' 2"			
Glazing shonfront min	70%	21%	520 <u>/</u>			
Glazing, shoph onc, min	20%-50%	20%	24%			
Glazing, other	flat_gable (6:12-12:12) hin(>3:12)	20%	24/0			
Roof types(pitch)	gambrel/mansard(6:12-30:12)	hinned mansard and gable	hipped mansard			
	when >20 spaces, max spaces = 120%	mpped mandatu and game	inpped mansard			
	min required. 10.1112.60 mixed used -					
Parking, off-street: DOD*	some shared spaces allowed.	0	11			
0,						
	space/unit: >750sf=1.2 space/unit / 1					
Posidontial (dwallings)	space/unit, >/ousi=1.3 space/unit. (+1	-	0			
Professional office	NA in DOD	5 N/A	8 N/A			
* see CD-4 zoning chart for	or remainder of parking spaces	IV/A	IN/A			
See CD-4 Zoming chart in	or remainder of parking spaces		l			
Schematic Area Summary

10/18/2022

	gsf	use	use
new construction	total new	existing	proposed
4th floor	7,812	n/a	residential
3rd floor	9,355	n/a	residential
2nd floor	9,355	n/a	office
1st floor (footprint)	9,355	n/a	retail/restaurant
basement	9,581	n/a	parking & support
total new	45,458		
evisting to remain and he renovated		evisting	nronosed
Ath floor 18.2 Congross St	2 4 2 2	rocidontial	rocidontial
	2,422	residential	residential
3rd floor - 1&3 Congress St	2,725	residential	residential
2nd floor - 1&3 Congress St	2,725	office	office
1st floor - 1&3 Congress St (footprint)			
• • • • •	2,725	office&retail	restaurant&retail
basement - 1&3 Congress	2,725 2,725	office&retail storage/mech	restaurant&retail storage/support
basement - 1&3 Congress total renovation	2,725 2,725 13,322	office&retail storage/mech	restaurant&retail storage/support
basement - 1&3 Congress	2,725 2,725 13,322	office&retail storage/mech	restaurant&retail storage/support
basement - 1&3 Congress total renovation TOTAL FOOTPRINT new + reno	2,725 2,725 13,322 12,080	office&retail storage/mech	restaurant&retail storage/support
basement - 1&3 Congress total renovation TOTAL FOOTPRINT new + reno TOTAL BUILDING new + reno	2,725 2,725 13,322 12,080 58,780	office&retail storage/mech	restaurant&retail storage/support



WV engineering associates, pa. WWW.WVengineering.com 11 king court, keene, new hampshire 03431 t: 603.352.7007

October 14, 2022

Ms. Lynn Kramer

McNabb Properties, LTD. 3 Pleasant Street, Suite 400 Portsmouth, NH 03801

Re: Market Square One Congress Street Portsmouth, New Hampshire WVA Project No. 21208

Dear Lynn:

We offer the following energy efficiency design standards as part of the 1 Congress Street Green Building Standard:

Plumbing

- Utilize low flow EPA Water Sense rated plumbing fixtures.
- Utilize 2018 International Energy Conservation Code (IECC) domestic hot water recirculation and piping insulation.
- Utilize condensing gas efficiency domestic hot water heaters at centralized domestic hot water plant for commercial and residential tenants.

Mechanical

- Utilize centralized commercial 3-phase VRF heat recovery air source heat pumps.
- Utilize minimum 65% efficiency energy recovery ventilators to provide 2018 International Mechanical Code required ventilation and exhaust to commercial and residential tenants.
- Utilized high supply/low return air distribution where possible to maximize ventilation efficiency.

October 14, 2022 WVA Project No. 21208

Electrical

- Utilize Energy Star or Design Light Consortium rated LED light fixtures.
- Utilize 2018 IECC day light dimming, occupancy and vacancy sensors to minimize lighting energy use.

Sincerely,

WV Engineering Associates, PA

Tell Plat

Richard A. Parks, III, PE

cc: Tracy Kozak ARCove Architects



1 Congress Street

One Market Square LLC

Schematic Area Summary 10/18/2022

TOTAL required, rounded up

	gsf	use	use
new construction	total new	existing	proposed
4th floor	7,812	n/a	residentia
3rd floor	9,355	n/a	residentia
2nd floor	9,355	n/a	office
1st floor (footprint)	9,355	n/a	retail/restaurant
basement	9,581	n/a	parking & support
total new	45,458		
existing to remain and be renovated		existing	proposed
existing to remain and be renovated		existing	proposed
4th floor - 1&3 Congress St	2,422	residential	residentia
3rd floor - 1&3 Congress St	2,725	residential	residentia
2nd floor - 1&3 Congress St	2,725	office	office
1st floor - 1&3 Congress St (footprint)	2,725	office&retail	restaurant&retai
basement - 1&3 Congress	2,725	storage/mech	storage/support
total renovation	13,322		
			i i
TOTAL FOOTPRINT new + reno	12,080		
TOTAL BUILDING new + reno	58,780		l
roof decks	889		

existing to be demolished (& replace	d		
by new construction)		existing	proposed
4th floor	0	n/a	n/a
3rd floor	0	n/a	n/a
2nd floor	2,094	storage	n/a
1st floor	3,502	restaurant & kitchen	n/a
basement	3,502	storage	n/a
total to be demo'd & replaced	9,098		

Residential Vehicular Parking	Qty	parking per unit	parking required	parking available
units > 750 sf	16	1.30	20.80	
units 500-750 sf	1	1.00	1.00	
Units <500 sf	1	0.50	0.50	
resident units total	18		22.30	
DOD deduct			-4.00	
1 visitor space for every 5 units			3.6	
TOTAL			21.90	23.00

U	nit NO.	BR's	SF	parking/unit	parking available
	301	2	1,067	1.3	
	302	1	885	1.3	
	303	1	925	1.3	
	304	1	574	1.0	
	305	1	1,014	1.3	
	306	1	986	1.3	
	307	1	982	1.3	
	308	1	913	1.3	
	309	2	1,324	1.3	
	401	2	946	1.3	
	402	1	851	1.3	
	403	1	894	1.3	
	404	st	343	0.5	
	405	1	1.023	1.3	
	406	1	838	1.3	
	407	1	894	1.3	
	408	1	906	1.3	
	409	2	1,200	1.3	
resident units total			16,565	22.3	
DOD deduct				-4.0	
1 visitor space for every 5 units				3.6	
TOTAL parking				21.90	23
Bicycle Parking					
One space for every 5 units				3.6	
resident units total DOD deduct 1 visitor space for every 5 units TOTAL parking Bicycle Parking One space for every 5 units	409	2	1,200 16,565	1.3 22.3 -4.0 3.6 21.90 3.6	

4

Groundcovers, Grasses, and Ferns

Sym	Qty	Common Name / Botanical Name	Size	Remarl	(
AU	15	Arctostaphylos uva-ursi / Bearberry	30" OC				
ABV	7	Astilbe 'Bridal Veil' / Late White Astilbe	Cont.	2 QT	24" OC		
BC	5	Bergenia cordifolia / Bergenia	Cont.	2 QT			
СРХ	25	Carex pensylvanica / Pennsylvania Sedg	ge	Cont.	1 Gal.	15″ OC	
DWF	20	Dryopteris championii / Champion's W	ood Fer	n	Cont.	2 QT	24" OC
GO	32	Galium odoratum / Sweet Woodruff	Cont.	1 QT	12" OC		
GMB	24	Geranium macrorrhizum 'Bevans's Varie	ety'/C	ranesbill	Cont.	2 Qt	24" OC
HAD	6	Heuchera a. 'Dale's Variety' / Native	Coral Be	lls	Cont.	1 QT	
НСН	6	Heuchera 'Chatterbox / Pink Coral Be	ells	Cont.	1 QT		
HMA	3	Hosta m. 'Aureomarginata' / Aureoma	arginata	Hosta	Cont.	2 QT	24" OC
ONT	12	Oenothera fruticosa / Evening Primro	se	Cont.	2 QT		
РХ	22	Polystichum acrostichoides / Christm	as fern	Cont.	2 QT	18" OC	
PRD	14	Pulmonaria 'Roy Davidson' / Speckled	d Lungw	ort	Cont.	1 QT	
SSX	25	Sedum 'sexangulare', / Stonecrop	Cont.	2 QT	Mix		
SSK	20	Sedum 'kamtshaticum ' / Stonecrop	Cont.	2 QT	Mix		
SJC	25	Sedum 'John Creech'/ Stonecrop	Cont.	2 QT	Mix		
SRA	11	Sedum reflexum 'Anagelina'/ Stonecro	р	Cont.	2 QT	Mix	
TIA	18	Tiarella cordifolia / Foamflower	Cont.	1 QT	12" OC		
VIO	12	Viola labradorica / Perennial Violet	Cont.	2 QT			
WAL	16	Waldsteinia ternata / Siberian Barren S	Strawbe	rry	Cont.	2 QT	24" OC

DRAINAGE ANALYSIS

COMMERCIAL DEVELOPMENT

1 CONGRESS STREET PORTSMOUTH, NH



PREPARED FOR ONE MARKET SQUARE, LLC

18 OCTOBER 2022





200 Griffin Road, Unit 3 Portsmouth, NH 03801 Phone: 603.430.9282; Fax: 603.436.2315 E-mail: <u>jrc@ambitengineering.com</u> (Ambit Job Number 3406)

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ATTACHMENTS

Existing Subcatchment Plan Proposed Subcatchment Plan

APPENDIX

Vicinity (Tax) Map	А
Tables, Charts, Etc.	В
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EXECUTIVE SUMMARY

This drainage analysis examines the pre-development (existing) and post-development (proposed) stormwater drainage patterns for the Commercial Development at the property known as 1 Congress Street in Portsmouth, NH. The site is shown on the City of Portsmouth Assessor's Tax Map 117 as Lots 14 and 15. The total size of the associated drainage area is 15,377± square-feet (0.353 acres). The total size of the lot is 16,106± square-feet (0.353 acres). The total redevelopment area of the project is 24,218± square-feet (0.556 acres). The City of Portsmouth specifies a 15,000 square-foot disturbed area and 40% impervious existing area threshold that would qualify the proposed site as a Redevelopment project, creating additional treatment requirements for the proposed structure.

The development will provide for a new commercial building. The development has the potential to increase stormwater pollutants to City infrastructure, and therefore must be designed in a manner to prevent that occurrence. This will be done primarily by capturing stormwater runoff and routing it through appropriate stormwater facilities, designed to ensure that there will be no increase in pollutants from the site as a result of this project.

The hydrologic modeling utilized for this analysis uses the "Extreme Precipitation" values for rainfall from The Northeast Regional Climate Center (Cornell University), with a 15% increase to comply with local ordinance.

INTRODUCTION / PROJECT DESCRIPTION

This drainage report is designed to assist the owner, contractor, regulatory reviewer, and others in understanding the impact of the proposed development project on local surface water runoff and quality. The project site is shown on the City of Portsmouth, NH Assessor's Tax Map 117 as Lots 14 and 15. Bounding the site to the north is Haven Court. Bounding the site to the east is High Street. Bounding the site to the South is Congress Street. Bounding the site to the west are multi-story commercial buildings. A vicinity map is included in the Appendix to this report.

The proposed development will include a commercial building with utilities. This report includes information about the existing site and the proposed expansion necessary to analyze stormwater runoff and to design any required mitigation. The report includes maps of pre-development and post-development watersheds, subcatchment areas and calculations of runoff. The report will provide a narrative of the stormwater runoff and describe numerically and graphically the surface water runoff patterns for this site. Proposed stormwater management methods will also be described, as well as erosion and sediment control practices. To fully understand the proposed site development the reader should also review a complete site plan set in addition to this report.

METHODOLOGY

"Extreme Precipitation" values from The Northeast Regional Climate Center (Cornell University) have been used for modeling purposes. These values have been used in this analysis, with a 15% addition to comply with local ordinances. The unadjusted table is appended to this report.

This report uses the US Soil Conservation Service (SCS) Method for estimating stormwater runoff. The SCS method is published in The National Engineering Handbook (NEH), Section 4 "Hydrology" and includes the Technical Release No. 20, (TR-20) "Computer Program for Project Formulation Hydrology", and Technical Release No. 55 (TR-55) "Urban Hydrology for Small Watersheds" methods. This report uses the HydroCAD version 10.20 program, written by HydroCAD Software Solutions LLC, Chocorua, N.H., to apply these methods for

- 2 -

the calculation of runoff and for pond modeling. Rainfall data and runoff curve numbers are taken from "The Stormwater Management and Erosion Control Handbook for Urban and Developing Areas in New Hampshire."

Time of Concentration (Tc) is calculated by entering measured flow path data such as flow path type, length, slope and surface characteristics into the HydroCAD program. For the purposes of this report, a minimum time of concentration of 5 minutes is used. The storm events used for the calculations in this report are the 2-year, 10-year, 25-year, and 50-year (24-hour) storms. Watershed basin boundaries have been delineated using topographic maps prepared by Ambit Engineering and field observations to confirm.

SITE SPECIFIC INFORMATION

Based on the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), Soil Survey of Rockingham County, New Hampshire the site is made up of one soil type:

Soil Symbol	Soil Name and Slopes
699	Urban Land

Urban Land does not have any recorded geological features, including depth to bedrock or depth to water table. The Hydraulic Soil Grade is assumed to be type D.

The physical characteristics of the site not containing buildings consist of gently sloped (0-8%) grades that generally slope from the west of the lot to the east. Elevations on the site range from 27 to 32 feet above sea level. The existing site is developed with multi-story commercial buildings and associated parking.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) number 33015C0259F (effective date January 29, 2021), the proposed development is located in Zone X and is determined to be outside of the 0.2% annual chance floodplain. A copy of the FIRM map is included in the Appendix.

- 3 -

PRE-DEVELOPMENT DRAINAGE

In the pre-development condition, the site has been analyzed as two subcatchment basins (E1 and E1a) based on localized topography and discharge location. Subcatchment E1 contains the entirety of the lot as well as part of the runoff from adjacent roads, and flows to the north to discharge point DP1, represented as Catch Basin 1 (CB1) on the plan set. Subcatchment E1a contains the flow from an adjacent alleyway (Haven Court) and flows to a trench drain, before flowing to DP1.

Table 1: Pre-Development Watershed Basin Summary

Watershed	Basin	Тс	CN	10-Year	50-Year	То
Basin ID	Area (SF)	(MIN)		Runoff (CFS)	Runoff (CFS)	Design
						Point
E1	13,745	5.0	97	2.53	3.85	DP1
E1a	1,632	5.0	98	0.30	0.46	DP1

POST-DEVELOPMENT DRAINAGE

The proposed development has been designed to match the pre-development drainage patterns to the greatest extent feasible. In the post-development condition, the site has been analyzed as one subcatchment basin, (P1). The subcatchment matches the combined area of subcatchments E1 and E1a, and drain to Discharge Point DP1. Subcatchment P1 contains the new development and drains in part through a roof drain filter and then to DP1.

Table 2: Post-Development Watershed Basin Summary

Watershed	Basin Area	Tc (MIN)	CN	10-Year	50-Year	Design
Basin ID	(SF)			Runoff	Runoff (CFS)	Point
				(CFS)		
P1	15,377	5.0	98	2.84	4.32	DP1

The overall impervious coverage of the subcatchment areas analyzed in this report **increases** from 0.337 acres (95.50%) in the pre-development condition to 0.353 acres

(100.00%) in the post-development condition. The City of Portsmouth specifies that 30% of existing impervious cover in addition to 100% of additional proposed impervious cover is treated in a Redevelopment project. These conditions are exceeded by treating the proposed 9,400 sf rooftop with the roof drain filter.

(100%)(692 sf pervious) + (30%)(14,685 sf impervious) = 5,098 sf required treatment Table 3 shows a summary of the comparison between pre-developed flows and postdeveloped flows for the design point. The comparison shows approximately equivalent flows between the existing and proposed conditions, with a minimal increase of 0.02 cfs resultant from the minor increase in impervious surfaces on the site.

Table 3: Pre-Development to Post-Development Comparison

	Q2 (CFS)		Q10 (CFS)		Q50 (CFS)		
Design	Pre	Post	Pre	Post	Pre	Post	Description
Point							
DP1	1.84	1.86	2.83	2.84	4.31	4.32	Catch Basin 1

Note that all post-development peak discharges are either equivalent or less than the existing peak discharges.

OFFSITE INFRASTRUCTURE CAPACITY

Due to slight increase of impervious surfaces in the proposed plan, the impacts to the local infrastructure receptors were measured. The receiving catch basin was estimated to be designed for a 10-year storm event, neglecting the 15% increase in rainfall specified in current regulations. By the original design standard, there would be a depth increase of 0.03 feet in the receiving catch basin, but would not overflow. Using the updated standard, the catch basin in the existing condition overflows during the 10-year storm.

EROSION AND SEDIMENT CONTROL PRACTICES

The erosion potential for this site as it exists is moderate due to the presence of existing impervious surfaces. During construction, the major potential for erosion is wind and stormwater runoff. The contractor will be required to inspect and maintain all necessary erosion control measures, as well as installing any additional measures as required. All erosion control practices shall conform to "The Stormwater Management and Erosion Control Handbook for Urban and Developing Areas in New Hampshire." Some examples of erosion and sediment control measures to be utilized for this project during construction may include:

- Catch basin filter baskets
- Stabilized construction entrance at access point to the site (FODS)
- Temporary mulching and seeding for disturbed areas
- Spraying water over disturbed areas to minimize wind erosion

After construction, permanent stabilization will be accomplished by surfacing the access drives and walkways as shown on the plans.

CONCLUSION

The proposed development has been designed to match the pre-development drainage patterns to the greatest extent feasible. With the design of the roof drain filter, the postdevelopment runoff is treated sufficiently. Erosion and sediment control practices will be implemented for both the temporary condition during construction and for final stabilization after construction. Therefore, there are no negative impacts to downstream receptors or adjacent properties anticipated as a result of this project.

REFERENCES

- Comprehensive Environmental Inc. and New Hampshire Department of Environmental Services. *New Hampshire Stormwater Manual (Volumes 1, 2 and 3)*, December 2008 (Revision 1.0).
- Minnick, E.L. and H.T. Marshall. Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire, prepared by Rockingham County Conservation District, prepared for New Hampshire Department of Environmental Services, in cooperation with USDA Soil Conservation Service, August 1992.
- 3. HydroCAD Software Solution, LLC. *HydroCAD Stormwater Modeling System Version 10.20* copyright 2013.

AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

COMMERCIAL DEVELOPMENT 1 CONGRESS STREET PORTSMOUTH, NEW HAMPSHIRE

Existing Subcatchments

JOB NUMBER: 3406 SCALE: 1" = 30' SUBMITTED: 10-18-2022





Proposed Subcatchments

COMMERCIAL DEVELOPMENT 1 CONGRESS STREET PORTSMOUTH, NEW HAMPSHIRE JOB NUMBER: 3406 SCALE: 1" = 50' SUBMITTED: 10-18-2022



APPENDIX A

VICINITY (TAX) MAP

Vicinity Map

JOB NUMBER: 3406 SCALE: 1" = 60' SUBMITTED: 10-18-2022



COMMERCIAL DEVELOPMENT 1 CONGRESS STREET PORTSMOUTH, NEW HAMPSHIRE





COMMERCIAL DEVELOPMENT 1 CONGRESS STREET PORTSMOUTH, NEW HAMPSHIRE

Aerial Photography

JOB NUMBER: 3406 SCALE: 1" = 60' SUBMITTED: 10-18-2022



APPENDIX B

TABLES, CHARTS, ETC.

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Smoothing	Yes
State	New Hampshire
Location	
Longitude	70.758 degrees West
Latitude	43.077 degrees North
Elevation	0 feet
Date/Time	Tue, 01 Feb 2022 09:49:16 -0500

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.26	0.40	0.50	0.65	0.81	1.04	1yr	0.70	0.98	1.21	1.56	2.03	2.65	2.92	1yr	2.35	2.81	3.22	3.94	4.54	1yr
2yr	0.32	0.50	0.62	0.81	1.02	1.30	2yr	0.88	1.18	1.52	1.94	2.48	3.20	3.57	2yr	2.84	3.43	3.93	4.67	5.32	2yr
5yr	0.37	0.58	0.73	0.97	1.25	1.61	5yr	1.08	1.47	1.89	2.43	3.14	4.06	4.57	5yr	3.59	4.40	5.03	5.93	6.69	5yr
10yr	0.41	0.65	0.82	1.11	1.45	1.89	10yr	1.25	1.73	2.23	2.89	3.74	4.86	5.52	10yr	4.30	5.31	6.07	7.09	7.96	10yr
25yr	0.48	0.76	0.97	1.34	1.77	2.34	25yr	1.53	2.14	2.78	3.63	4.73	6.16	7.09	25yr	5.45	6.81	7.79	9.00	10.03	25yr
50yr	0.54	0.86	1.10	1.54	2.07	2.76	50yr	1.79	2.53	3.29	4.32	5.65	7.37	8.57	50yr	6.52	8.24	9.40	10.79	11.95	50yr
100yr	0.60	0.97	1.25	1.77	2.42	3.26	100yr	2.09	2.98	3.90	5.15	6.76	8.83	10.36	100yr	7.81	9.96	11.35	12.93	14.24	100yr
200yr	0.67	1.10	1.43	2.05	2.82	3.83	200yr	2.44	3.51	4.61	6.12	8.07	10.58	12.52	200yr	9.36	12.04	13.72	15.50	16.97	200yr
500yr	0.80	1.31	1.71	2.48	3.48	4.76	500yr	3.00	4.38	5.76	7.70	10.20	13.44	16.10	500yr	11.90	15.48	17.62	19.72	21.43	500yr

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.23	0.36	0.44	0.59	0.73	0.88	1yr	0.63	0.86	0.93	1.33	1.68	2.23	2.47	1yr	1.98	2.38	2.86	3.19	3.89	1yr
2yr	0.31	0.49	0.60	0.81	1.00	1.19	2yr	0.86	1.16	1.37	1.82	2.34	3.05	3.44	2yr	2.70	3.31	3.82	4.54	5.08	2yr
5yr	0.35	0.54	0.67	0.92	1.17	1.40	5yr	1.01	1.37	1.61	2.12	2.73	3.78	4.17	5yr	3.34	4.01	4.71	5.52	6.22	5yr
10yr	0.38	0.59	0.73	1.02	1.32	1.60	10yr	1.14	1.56	1.80	2.39	3.06	4.36	4.84	10yr	3.86	4.65	5.42	6.39	7.17	10yr
25yr	0.44	0.67	0.83	1.18	1.56	1.90	25yr	1.35	1.86	2.10	2.75	3.53	4.71	5.86	25yr	4.17	5.63	6.61	7.75	8.64	25yr
50yr	0.48	0.73	0.91	1.31	1.76	2.16	50yr	1.52	2.12	2.34	3.07	3.92	5.32	6.75	50yr	4.71	6.50	7.67	8.99	9.97	50yr
100yr	0.53	0.81	1.01	1.46	2.00	2.47	100yr	1.73	2.41	2.62	3.41	4.34	5.98	7.79	100yr	5.30	7.49	8.89	10.43	11.50	100yr
200yr	0.59	0.89	1.12	1.63	2.27	2.81	200yr	1.96	2.75	2.93	3.78	4.78	6.71	8.97	200yr	5.93	8.63	10.30	12.13	13.29	200yr
500yr	0.68	1.01	1.31	1.90	2.70	3.36	500yr	2.33	3.28	3.41	4.31	5.43	7.80	10.82	500yr	6.90	10.41	12.52	14.82	16.09	500yr

Upper Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.28	0.44	0.54	0.72	0.89	1.08	1yr	0.77	1.06	1.26	1.74	2.20	2.98	3.16	1yr	2.63	3.04	3.57	4.37	5.03	1yr
2yr	0.34	0.52	0.64	0.86	1.07	1.27	2yr	0.92	1.24	1.48	1.96	2.52	3.42	3.70	2yr	3.02	3.56	4.09	4.84	5.62	2yr
5yr	0.40	0.62	0.76	1.05	1.34	1.62	5yr	1.15	1.58	1.88	2.54	3.25	4.33	4.96	5yr	3.84	4.77	5.37	6.37	7.15	5yr
10yr	0.47	0.72	0.89	1.24	1.61	1.98	10yr	1.39	1.93	2.28	3.11	3.96	5.33	6.21	10yr	4.72	5.97	6.83	7.84	8.75	10yr
25yr	0.58	0.88	1.09	1.56	2.05	2.57	25yr	1.77	2.51	2.96	4.07	5.16	7.76	8.35	25yr	6.87	8.03	9.17	10.34	11.41	25yr
50yr	0.67	1.02	1.27	1.83	2.46	3.13	50yr	2.12	3.06	3.60	5.00	6.33	9.71	10.48	50yr	8.60	10.08	11.48	12.73	13.97	50yr
100yr	0.79	1.19	1.50	2.16	2.96	3.81	100yr	2.56	3.73	4.38	6.16	7.78	12.15	13.14	100yr	10.75	12.64	14.37	15.71	17.10	100yr
200yr	0.92	1.39	1.76	2.55	3.56	4.65	200yr	3.07	4.55	5.34	7.59	9.56	15.24	16.50	200yr	13.49	15.86	18.02	19.37	20.93	200yr
500yr	1.15	1.71	2.20	3.19	4.54	6.04	500yr	3.92	5.90	6.94	10.03	12.60	20.59	22.29	500yr	18.23	21.44	24.31	25.55	27.36	500yr



<u>APPENDIX C</u>

HYDROCAD DRAINAGE

ANALYSIS CALCULATIONS



Project Notes

Defined 5 rainfall events from output (32) IDF

Event#	Event	Storm Type	Curve	Mode	Duration	B/B	Depth	AMC
	Name				(hours)		(inches)	
1	2-yr	Type II 24-hr		Default	24.00	1	3.68	2
2	10-yr	Type II 24-hr		Default	24.00	1	5.59	2
3	25-yr	Type II 24-hr		Default	24.00	1	7.08	2
4	50-yr	Type II 24-hr		Default	24.00	1	8.48	2

Rainfall Events Listing (selected events)

Area Listing (all nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
0.016	80	>75% Grass cover, Good, HSG D (E1)
0.196	98	Paved parking, HSG D (E1, E1a)
0.141	98	Roofs, HSG D (E1)
0.353	97	TOTAL AREA

Soil Listing (all nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.353	HSG D	E1, E1a
0.000	Other	
0.353		TOTAL AREA

Ground Covers (all nodes)

HSG-A	HSG-B	HSG-C	HSG-D	Other	Total	Ground	Subcatchment
 (acres)	(acres)	(acres)	(acres)	(acres)	(acres)	Cover	Numbers
0.000	0.000	0.000	0.016	0.000	0.016	>75% Grass cover, Good	E1
0.000	0.000	0.000	0.196	0.000	0.196	Paved parking	E1, E1a
0.000	0.000	0.000	0.141	0.000	0.141	Roofs	E1
0.000	0.000	0.000	0.353	0.000	0.353	TOTAL AREA	

Line	# Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
	1 CB1	22.75	22.10	17.2	0.0378	0.013	0.0	8.0	0.0
:	2 CB3	25.30	23.10	38.4	0.0573	0.013	0.0	6.0	0.0

Pipe Listing (all nodes)

2022-02-01 Existing Condi Prepared by Ambit Engineerin HydroCAD® 10.20-2f s/n 00801 ©	tions David T g 2022 HydroCAD Software Solutions LLC	Type II 24-hr2-yr Rainfall=3.68"Printed2022-10-14CPage 8
Time Runoff Reach routing by S	span=5.00-20.00 hrs, dt=0.05 hrs, 30 by SCS TR-20 method, UH=SCS, We Stor-Ind+Trans method - Pond routir	01 points eighted-CN ng by Stor-Ind method
SubcatchmentE1:	Runoff Area=13,745 sf 94 Tc=5.0	4.97% Impervious Runoff Depth>3.10" min CN=97 Runoff=1.65 cfs 0.081 af
Subcatchment E1a:	Runoff Area=1,632 sf 100 Tc=5.0	0.00% Impervious Runoff Depth>3.18" min CN=98 Runoff=0.20 cfs 0.010 af
Pond CB1: DP1, 25.25 Rim	Peak 8.0" Round Culvert n=0.013 L=17.2' \$	k Elev=24.29' Inflow=1.84 cfs 0.091 af S=0.0378 '/' Outflow=1.84 cfs 0.091 af
Pond CB3: Trench Drain, 26.47	Rim Peak 6.0" Round Culvert n=0.013 L=38.4' S	k Elev=25.57' Inflow=0.20 cfs 0.010 af S=0.0573 '/' Outflow=0.20 cfs 0.010 af
Total Runoff Are	a = 0.353 ac Runoff Volume = 0.09 4.50% Pervious = 0.016	91 af Average Runoff Depth = 3.11" ac 95.50% Impervious = 0.337 ac

0.081 af, Depth> 3.10"

Summary for Subcatchment E1:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 1.65 cfs @ 11.95 hrs, Volume= Routed to Pond CB1 : DP1, 25.25 Rim

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 2-yr Rainfall=3.68"

Area (sf)	CN	Description							
6,899	98	Paved parking, HSG D							
1,018	98	Roofs, HSG D							
628	98	Roofs, HSG D							
2,672	98	Roofs, HSG D							
1,210	98	.oofs, HSG D							
615	80	75% Grass cover, Good, HSG D							
77	80	>75% Grass cover, Good, HSG D							
626	98	Roofs, HSG D							
13,745	97	Weighted Average							
692		5.03% Pervious Area							
13,053		94.97% Impervious Area							
Tc Length	Slop	e Velocity Capacity Description							
(min) (feet)	(ft/	ft) (ft/sec) (cfs)							
5.0		Direct Entry.							

Summary for Subcatchment E1a:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.20 cfs @ 11.95 hrs, Volume= 0.010 af, Depth> 3.18" Routed to Pond CB3 : Trench Drain, 26.47 Rim

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 2-yr Rainfall=3.68"

Α	rea (sf)	CN	N Description								
	1,632	98	8 Paved parking, HSG D								
	1,632		100.00% Impervious Area								
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description						
5.0					Direct Entry,						

Summary for Pond CB1: DP1, 25.25 Rim

[82] Warning: Early inflow requires earlier time span[57] Hint: Peaked at 24.29' (Flood elevation advised)[79] Warning: Submerged Pond CB3 Primary device # 1 OUTLET by 1.19'

Inflow Area	ı =	0.353 ac,	95.50% Imp	ervious,	Inflow Depth >	3.11"	for 2-yr	event
Inflow	=	1.84 cfs @	11.95 hrs,	Volume	= 0.091	af	-	
Outflow	=	1.84 cfs @	11.95 hrs,	Volume	= 0.091	af, At	tten= 0%,	Lag= 0.0 min
Primary	=	1.84 cfs @	11.95 hrs,	Volume	= 0.091	af		-

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 24.29' @ 11.95 hrs

#1 Primary 22.75' 8.0" Round Culvert L= 17.2' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 22.75' / 22.10' S= 0.0378 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf	

Primary OutFlow Max=1.84 cfs @ 11.95 hrs HW=24.28' (Free Discharge) **1=Culvert** (Inlet Controls 1.84 cfs @ 5.28 fps)

Summary for Pond CB3: Trench Drain, 26.47 Rim

[82] Warning: Early inflow requires earlier time span [57] Hint: Peaked at 25.57' (Flood elevation advised)

Inflow Area	=	0.037 ac,10	0.00% Impe	ervious, Inflow D	epth > 3.	18" for 2-y	r event
Inflow	=	0.20 cfs @	11.95 hrs,	Volume=	0.010 af	-	
Outflow	=	0.20 cfs @	11.95 hrs,	Volume=	0.010 af,	Atten= 0%,	Lag= 0.0 min
Primary	=	0.20 cfs @	11.95 hrs,	Volume=	0.010 af		-
Routed	to Pond	CB1 : DP1, 2	25.25 Rim				

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 25.57' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	25.30'	6.0" Round Culvert L= 38.4' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 25.30' / 23.10' S= 0.0573 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf

```
Primary OutFlow Max=0.20 cfs @ 11.95 hrs HW=25.57' (Free Discharge)

-1=Culvert (Inlet Controls 0.20 cfs @ 1.79 fps)
```

2022-02-01 Existing Condi	tions David T	Type II 24-hr 10-yr Rainfall=5.59"
Prepared by Ambit Engineerin	g	Printed 2022-10-14
HydroCAD® 10.20-2f s/n 00801 ©	2022 HydroCAD Software Solutions L	LC Page 11
Time Runoff Reach routing by S	span=5.00-20.00 hrs, dt=0.05 hrs, by SCS TR-20 method, UH=SCS, Stor-Ind+Trans method - Pond rou	301 points Weighted-CN uting by Stor-Ind method
Subcatchment E1:	Runoff Area=13 745 sf	94 97% Impervious Runoff Depth>4 83"
Subcatchinent E 1.	Tc=5	.0 min CN=97 Runoff=2.53 cfs 0.127 af
	-	
Subcatchment E1a:	Runoff Area=1,632 sf	100.00% Impervious Runoff Depth>4.90"
	Tc=5	.0 min CN=98 Runoff=0.30 cfs 0.015 af
Pond CB1: DP1, 25.25 Rim	P(eak Elev=25.92' Inflow=2.83 cfs 0.142 af
	8.0" Round Culvert n=0.013 L=17.2	2' S=0.0378 '/' Outflow=2.83 cfs 0.142 af
Dand CP2: Tranch Drain 26 47	Dim D	ook Elov-25.65' Inflow-0.30 ofc. 0.015 of
Pond CB3: Trench Drain, 26.47	6.0" Round Culvert n=0.013 L=38 /	L' S=0.0573 '/' Outflow=0.30 cfs 0.015 af
Total Runoff Are	a = 0.353 ac Runoff Volume = 0 4.50% Pervious = 0.0	.142 af Average Runoff Depth = 4.84" 16 ac 95.50% Impervious = 0.337 ac

Summary for Subcatchment E1:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 2.53 cfs @ 11.95 hrs, Volume= Routed to Pond CB1 : DP1, 25.25 Rim 0.127 af, Depth> 4.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 10-yr Rainfall=5.59"

A	rea (sf)	CN	Description			
	6,899	98	Paved park	ing, HSG D)	
	1,018	98	Roofs, HSC	βĎ		
	628	98	Roofs, HSG	6 D		
	2,672	98	Roofs, HSG	6 D		
	1,210	98	Roofs, HSG	6 D		
	615	80	>75% Gras	s cover, Go	ood, HSG D	
	77	80	>75% Gras	s cover, Go	ood, HSG D	
	626	98	Roofs, HSG	6 D		
	13,745	97	Weighted A	verage		
	692		5.03% Perv	ious Area		
	13,053		94.97% Imp	pervious Are	ea	
Тс	Length	Slop	e Velocity	Capacity	Description	
(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)		
5.0					Direct Entry,	
					•	

Summary for Subcatchment E1a:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.30 cfs @ 11.95 hrs, Volume= 0.015 af, Depth> 4.90" Routed to Pond CB3 : Trench Drain, 26.47 Rim

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 10-yr Rainfall=5.59"

Α	rea (sf)	CN	Description		
	1,632	98	Paved park	ing, HSG D)
	1,632		100.00% In	npervious A	Area
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Pond CB1: DP1, 25.25 Rim

[82] Warning: Early inflow requires earlier time span
[57] Hint: Peaked at 25.92' (Flood elevation advised)
[81] Warning: Exceeded Pond CB3 by 0.26' @ 11.95 hrs

Inflow Area	=	0.353 ac,	95.50% Impe	ervious,	Inflow Dep	oth >	4.84"	for 10-	yr event	
Inflow	=	2.83 cfs @	11.95 hrs,	Volume	= (0.142 a	af		-	
Outflow	=	2.83 cfs @	11.95 hrs,	Volume	= (0.142 a	af, Atte	en= 0%,	Lag= 0.0	min
Primary	=	2.83 cfs @	11.95 hrs,	Volume	= (0.142 a	af			

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 25.92' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	22.75'	8.0" Round Culvert L= 17.2' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 22.75' / 22.10' S= 0.0378 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=2.83 cfs @ 11.95 hrs HW=25.92' (Free Discharge) **1=Culvert** (Inlet Controls 2.83 cfs @ 8.10 fps)

Summary for Pond CB3: Trench Drain, 26.47 Rim

[82] Warning: Early inflow requires earlier time span [57] Hint: Peaked at 25.65' (Flood elevation advised)

Inflow Area	=	0.037 ac,10	0.00% Impe	ervious, Inflow De	epth > 4.9	0" for 10-yr ev	ent
Inflow	=	0.30 cfs @	11.95 hrs,	Volume=	0.015 af	•	
Outflow	=	0.30 cfs @	11.95 hrs,	Volume=	0.015 af,	Atten= 0%, Lag	= 0.0 min
Primary	=	0.30 cfs @	11.95 hrs,	Volume=	0.015 af	-	
Routed	to Pond	CB1 : DP1, 2	25.25 Rim				

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 25.65' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	25.30'	6.0" Round Culvert L= 38.4' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 25.30' / 23.10' S= 0.0573 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf

```
Primary OutFlow Max=0.30 cfs @ 11.95 hrs HW=25.65' (Free Discharge) 

←1=Culvert (Inlet Controls 0.30 cfs @ 2.03 fps)
```

2022-02-01 Existing Condi	tions David T	Type II 24-hr 25-yr Rainfall=7.08"					
Prepared by Ambit Engineerin	g	Printed 2022-10-14					
HydroCAD® 10.20-2f s/n 00801 ©	2022 HydroCAD Software Solutions LL	<u>_C Page 14</u>					
Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method							
SubcatchmentE1:	Runoff Area=13,745 sf Tc=5.0	94.97% Impervious Runoff Depth>6.17" 0 min CN=97 Runoff=3.21 cfs 0.162 af					
Subcatchment E1a:	Runoff Area=1,632 sf 1 Tc=5.0	00.00% Impervious Runoff Depth>6.24" 0 min CN=98 Runoff=0.38 cfs 0.019 af					
Pond CB1: DP1, 25.25 Rim	Pea 8.0" Round Culvert n=0.013 L=17.2'	ak Elev=27.66' Inflow=3.59 cfs 0.182 af S=0.0378 '/' Outflow=3.59 cfs 0.182 af					
Pond CB3: Trench Drain, 26.47	Rim Pea 6.0" Round Culvert n=0.013 L=38.4'	ak Elev=25.72' Inflow=0.38 cfs 0.019 af S=0.0573 '/' Outflow=0.38 cfs 0.019 af					
Total Runoff Are	a = 0.353 ac Runoff Volume = 0.′ 4.50% Pervious = 0.01	182 afAverage Runoff Depth = 6.18"6 ac95.50% Impervious = 0.337 ac					
Summary for Subcatchment E1:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 3.21 cfs @ 11.95 hrs, Volume= Routed to Pond CB1 : DP1, 25.25 Rim 0.162 af, Depth> 6.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 25-yr Rainfall=7.08"

A	rea (sf)	CN	Description			
	6,899	98	Paved park	ing, HSG D)	
	1,018	98	Roofs, HSC	6 D		
	628	98	Roofs, HSG	6 D		
	2,672	98	Roofs, HSG	6 D		
	1,210	98	Roofs, HSG	6 D		
	615	80	>75% Gras	s cover, Go	ood, HSG D	
	77	80	>75% Gras	s cover, Go	ood, HSG D	
	626	98	Roofs, HSG	6 D		
	13,745	97	Weighted A	verage		
	692		5.03% Perv	ious Area		
	13,053		94.97% Imp	ervious Are	ea	
Тс	Length	Slop	e Velocity	Capacity	Description	
(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)		
5.0					Direct Entry,	
					•	

Summary for Subcatchment E1a:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.38 cfs @ 11.95 hrs, Volume= 0.019 af, Depth> 6.24" Routed to Pond CB3 : Trench Drain, 26.47 Rim

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 25-yr Rainfall=7.08"

Α	rea (sf)	CN	Description		
	1,632	98	Paved park	ing, HSG D)
	1,632		100.00% In	npervious A	Area
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Pond CB1: DP1, 25.25 Rim

[82] Warning: Early inflow requires earlier time span
[57] Hint: Peaked at 27.66' (Flood elevation advised)
[81] Warning: Exceeded Pond CB3 by 1.94' @ 11.95 hrs

Inflow Area	a =	0.353 ac, 9	95.50% Impe	ervious,	Inflow Depth >	6.18"	for 25-	yr event	
Inflow	=	3.59 cfs @	11.95 hrs,	Volume	= 0.182	2 af		-	
Outflow	=	3.59 cfs @	11.95 hrs,	Volume	= 0.182	2 af, Att	ten= 0%,	Lag= 0.0 r	min
Primary	=	3.59 cfs @	11.95 hrs,	Volume	= 0.182	2 af		-	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 27.66' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	22.75'	8.0" Round Culvert L= 17.2' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 22.75' / 22.10' S= 0.0378 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=3.59 cfs @ 11.95 hrs HW=27.66' (Free Discharge) **1=Culvert** (Inlet Controls 3.59 cfs @ 10.30 fps)

Summary for Pond CB3: Trench Drain, 26.47 Rim

[82] Warning: Early inflow requires earlier time span [57] Hint: Peaked at 25.72' (Flood elevation advised)

Inflow Area	=	0.037 ac,10	0.00% Impe	ervious, Inflow D	epth > 6.	24" for 25-	yr event
Inflow	=	0.38 cfs @	11.95 hrs,	Volume=	0.019 af		-
Outflow	=	0.38 cfs @	11.95 hrs,	Volume=	0.019 af,	, Atten= 0%,	Lag= 0.0 min
Primary	=	0.38 cfs @	11.95 hrs,	Volume=	0.019 af		-
Routed 1	to Pond	CB1 : DP1, 2	25.25 Rim				

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 25.72' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	25.30'	6.0" Round Culvert L= 38.4' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 25.30' / 23.10' S= 0.0573 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf

```
Primary OutFlow Max=0.38 cfs @ 11.95 hrs HW=25.72' (Free Discharge)

-1=Culvert (Inlet Controls 0.38 cfs @ 2.19 fps)
```

2022-02-01 Existing Condi	tions David T	Type II 24-hr 50-yr Rainfall=8.48"
Prepared by Ambit Engineerin	g	Printed 2022-10-14
HydroCAD® 10.20-2f s/n 00801 ©	2022 HydroCAD Software Solutions LL	LC Page 17
Time Runoff Reach routing by S	span=5.00-20.00 hrs, dt=0.05 hrs, 3 by SCS TR-20 method, UH=SCS, V Stor-Ind+Trans method - Pond rout	301 points Veighted-CN ting by Stor-Ind method
SubcatchmentE1:	Runoff Area=13,745 sf Tc=5.0	94.97% Impervious Runoff Depth>7.43" 0 min CN=97 Runoff=3.85 cfs 0.195 af
Subcatchment E1a:	Runoff Area=1,632 sf 1 Tc=5.0	00.00% Impervious Runoff Depth>7.49" 0 min CN=98 Runoff=0.46 cfs 0.023 af
Pond CB1: DP1 25 25 Rim	Pe	ak Elev=29.67' Inflow=4.31 cfs_0.219 af
	8.0" Round Culvert n=0.013 L=17.2'	S=0.0378 '/' Outflow=4.31 cfs 0.219 af
Pond CB3: Trench Drain, 26,47	Rim Pe	ak Elev=25.78' Inflow=0.46 cfs 0.023 af
	6.0" Round Culvert n=0.013 L=38.4'	S=0.0573 '/' Outflow=0.46 cfs 0.023 af
Total Runoff Are	a = 0.353 ac Runoff Volume = 0.3 4.50% Pervious = 0.01	219 afAverage Runoff Depth = 7.44"6 ac95.50% Impervious = 0.337 ac

Summary for Subcatchment E1:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 3.85 cfs @ 11.95 hrs, Volume= Routed to Pond CB1 : DP1, 25.25 Rim

0.195 af, Depth> 7.43"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 50-yr Rainfall=8.48"

A	rea (sf)	CN	Description			
	6,899	98	Paved park	ing, HSG D)	
	1,018	98	Roofs, HSC	6 D		
	628	98	Roofs, HSG	6 D		
	2,672	98	Roofs, HSG	6 D		
	1,210	98	Roofs, HSG	6 D		
	615	80	>75% Gras	s cover, Go	ood, HSG D	
	77	80	>75% Gras	s cover, Go	ood, HSG D	
	626	98	Roofs, HSG	6 D		
	13,745	97	Weighted A	verage		
	692		5.03% Perv	ious Area		
	13,053		94.97% Imp	pervious Are	ea	
Tc	Length	Slop	e Velocity	Capacity	Description	
(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)		
5.0					Direct Entry,	
					•	

Summary for Subcatchment E1a:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.46 cfs @ 11.95 hrs, Volume= 0.023 af, Depth> 7.49" Routed to Pond CB3 : Trench Drain, 26.47 Rim

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 50-yr Rainfall=8.48"

Α	rea (sf)	CN	Description		
	1,632	98	Paved park	ing, HSG D)
	1,632		100.00% In	npervious A	Area
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Pond CB1: DP1, 25.25 Rim

[82] Warning: Early inflow requires earlier time span
[57] Hint: Peaked at 29.67' (Flood elevation advised)
[81] Warning: Exceeded Pond CB3 by 3.88' @ 11.95 hrs

Inflow Area	=	0.353 ac,	95.50% Impe	ervious,	Inflow Depth >	> 7.44"	for 50-	yr event
Inflow	=	4.31 cfs @	11.95 hrs,	Volume	= 0.21	9 af		
Outflow	=	4.31 cfs @	11.95 hrs,	Volume	= 0.21	9 af, At	tten= 0%,	Lag= 0.0 min
Primary	=	4.31 cfs @	11.95 hrs,	Volume	= 0.21	9 af		-

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 29.67' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	22.75'	8.0" Round Culvert L= 17.2' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 22.75' / 22.10' S= 0.0378 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=4.31 cfs @ 11.95 hrs HW=29.66' (Free Discharge) **1=Culvert** (Inlet Controls 4.31 cfs @ 12.35 fps)

Summary for Pond CB3: Trench Drain, 26.47 Rim

[82] Warning: Early inflow requires earlier time span [57] Hint: Peaked at 25.78' (Flood elevation advised)

Inflow Area	=	0.037 ac,10	0.00% Impe	ervious, Inflow D	Depth > 7.4	49" for 50-	yr event
Inflow	=	0.46 cfs @	11.95 hrs,	Volume=	0.023 af		
Outflow	=	0.46 cfs @	11.95 hrs,	Volume=	0.023 af,	Atten= 0%,	Lag= 0.0 min
Primary	=	0.46 cfs @	11.95 hrs,	Volume=	0.023 af		
Routed	to Pond	CB1 : DP1, 2	25.25 Rim				

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 25.78' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	25.30'	6.0" Round Culvert L= 38.4' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 25.30' / 23.10' S= 0.0573 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf

```
Primary OutFlow Max=0.46 cfs @ 11.95 hrs HW=25.78' (Free Discharge)

-1=Culvert (Inlet Controls 0.46 cfs @ 2.36 fps)
```



Project Notes

Defined 5 rainfall events from output (32) IDF

Event#	Event	Storm Type	Curve	Mode	Duration	B/B	Depth	AMC
	Name				(hours)		(inches)	
1	2-yr	Type II 24-hr		Default	24.00	1	3.68	2
2	10-yr	Type II 24-hr		Default	24.00	1	5.59	2
3	25-yr	Type II 24-hr		Default	24.00	1	7.08	2
4	50-yr	Type II 24-hr		Default	24.00	1	8.48	2

Rainfall Events Listing (selected events)

Area Listing (selected nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
0.196	98	Paved parking, HSG D (P1)
0.157	98	Roofs, HSG D (P1)
0.353	98	TOTAL AREA

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Soil Listing (selected nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.353	HSG D	P1
0.000	Other	
0.353		TOTAL AREA

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Ground Covers (selected nodes)

HSG-A	HSG-B	HSG-C	HSG-D	Other	Total	Ground	Subcatchment
 (acres)	(acres)	(acres)	(acres)	(acres)	(acres)	Cover	Numbers
 0.000	0.000	0.000	0.196	0.000	0.196	Paved parking	P1
0.000	0.000	0.000	0.157	0.000	0.157	Roofs	P1
0.000	0.000	0.000	0.353	0.000	0.353	TOTAL AREA	

2022-10-14 Proposed Conditions David T

Prepared by Ambi	t Enginee	ring	
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Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	CB1	22.75	22.10	17.2	0.0378	0.013	0.0	8.0	0.0

Pipe Listing (selected nodes)

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

> Runoff Area=15,377 sf 100.00% Impervious Runoff Depth>3.18" Tc=5.0 min CN=98 Runoff=1.86 cfs 0.094 af

Pond CB1: DP1, 25.25 Rim

Subcatchment P1:

Peak Elev=24.31' Inflow=1.86 cfs 0.094 af 8.0" Round Culvert n=0.013 L=17.2' S=0.0378 '/' Outflow=1.86 cfs 0.094 af

Total Runoff Area = 0.353 ac Runoff Volume = 0.094 af Average Runoff Depth = 3.18" 0.00% Pervious = 0.000 ac 100.00% Impervious = 0.353 ac

Summary for Subcatchment P1:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 1.86 cfs @ 11.95 hrs, Volume= Routed to Pond CB1 : DP1, 25.25 Rim 0.094 af, Depth> 3.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 2-yr Rainfall=3.68"

A	rea (sf)	CN	Description			
	6,899	98	Paved park	ing, HSG D		
	1,018	98	Roofs, HSC	G D		
	628	98	Roofs, HSC	G D		
	2,672	98	Roofs, HSC	G D		
	1,210	98	Roofs, HSC	G D		
	615	98	Roofs, HSC	G D		
	77	98	Roofs, HSC	G D		
	626	98	Roofs, HSC	G D		
	1,632	98	Paved park	ing, HSG D		
	15,377	98	Weighted A	verage		
	15,377		100.00% In	npervious A	rea	
Tc	Length	Slop	e Velocity	Capacity	Description	
(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)		
5.0					Direct Entry,	

Summary for Pond CB1: DP1, 25.25 Rim

[82] Warning: Early inflow requires earlier time span [57] Hint: Peaked at 24.31' (Flood elevation advised)

Inflow Area	=	0.353 ac,10	0.00% Impe	ervious, Inflow De	epth > 3.18	3" for 2-yr	event
Inflow	=	1.86 cfs @	11.95 hrs,	Volume=	0.094 af		
Outflow	=	1.86 cfs @	11.95 hrs,	Volume=	0.094 af, A	Atten= 0%,	Lag= 0.0 min
Primary	=	1.86 cfs @	11.95 hrs,	Volume=	0.094 af		

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 24.31' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	22.75'	8.0" Round Culvert L= 17.2' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 22.75' / 22.10' S= 0.0378 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.86 cfs @ 11.95 hrs HW=24.31' (Free Discharge) -1=Culvert (Inlet Controls 1.86 cfs @ 5.33 fps) Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

> Runoff Area=15,377 sf 100.00% Impervious Runoff Depth>4.90" Tc=5.0 min CN=98 Runoff=2.84 cfs 0.144 af

Pond CB1: DP1, 25.25 Rim

Subcatchment P1:

Peak Elev=25.94' Inflow=2.84 cfs 0.144 af 8.0" Round Culvert n=0.013 L=17.2' S=0.0378 '/' Outflow=2.84 cfs 0.144 af

Total Runoff Area = 0.353 ac Runoff Volume = 0.144 af Average Runoff Depth = 4.90" 0.00% Pervious = 0.000 ac 100.00% Impervious = 0.353 ac

Summary for Subcatchment P1:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 2.84 cfs @ 11.95 hrs, Volume= Routed to Pond CB1 : DP1, 25.25 Rim 0.144 af, Depth> 4.90"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 10-yr Rainfall=5.59"

A	rea (sf)	CN	Description			
	6,899	98	Paved park	ing, HSG D		
	1,018	98	Roofs, HSC	θĎ		
	628	98	Roofs, HSC	G D		
	2,672	98	Roofs, HSC	G D		
	1,210	98	Roofs, HSC	G D		
	615	98	Roofs, HSC	G D		
	77	98	Roofs, HSC	G D		
	626	98	Roofs, HSC	G D		
	1,632	98	Paved park	ing, HSG D		
	15,377	98	Weighted A	verage		
	15,377		100.00% In	npervious A	ea	
				-		
Тс	Length	Slop	e Velocity	Capacity	Description	
(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)		
5.0					Direct Entry,	

Summary for Pond CB1: DP1, 25.25 Rim

[82] Warning: Early inflow requires earlier time span [57] Hint: Peaked at 25.94' (Flood elevation advised)

Inflow Area	=	0.353 ac,10	0.00% Impe	ervious, Inflov	v Depth > 4	.90" for	10-yr event
Inflow	=	2.84 cfs @	11.95 hrs,	Volume=	0.144 af	:	
Outflow	=	2.84 cfs @	11.95 hrs,	Volume=	0.144 af	, Atten= 0)%, Lag= 0.0 min
Primary	=	2.84 cfs @	11.95 hrs,	Volume=	0.144 af		

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 25.94' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	22.75'	8.0" Round Culvert L= 17.2' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 22.75' / 22.10' S= 0.0378 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=2.84 cfs @ 11.95 hrs HW=25.94' (Free Discharge) -1=Culvert (Inlet Controls 2.84 cfs @ 8.14 fps) Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

> Runoff Area=15,377 sf 100.00% Impervious Runoff Depth>6.24" Tc=5.0 min CN=98 Runoff=3.60 cfs 0.183 af

Pond CB1: DP1, 25.25 Rim

Subcatchment P1:

Peak Elev=27.68' Inflow=3.60 cfs 0.183 af 8.0" Round Culvert n=0.013 L=17.2' S=0.0378 '/' Outflow=3.60 cfs 0.183 af

Total Runoff Area = 0.353 ac Runoff Volume = 0.183 af Average Runoff Depth = 6.24" 0.00% Pervious = 0.000 ac 100.00% Impervious = 0.353 ac

Summary for Subcatchment P1:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 3.60 cfs @ 11.95 hrs, Volume= Routed to Pond CB1 : DP1, 25.25 Rim 0.183 af, Depth> 6.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 25-yr Rainfall=7.08"

A	rea (sf)	CN	Description			
	6,899	98	Paved park	ing, HSG D)	
	1,018	98	Roofs, HSC	G D		
	628	98	Roofs, HSC	G D		
	2,672	98	Roofs, HSC	G D		
	1,210	98	Roofs, HSC	G D		
	615	98	Roofs, HSC	G D		
	77	98	Roofs, HSC	G D		
	626	98	Roofs, HSC	G D		
	1,632	98	Paved park	ing, HSG D)	
	15,377	98	Weighted A	verage		
	15,377		100.00% In	npervious A	Area	
				-		
Tc	Length	Slop	e Velocity	Capacity	Description	
(min)	(feet)	(ft/1	t) (ft/sec)	(cfs)		
5.0					Direct Entry,	

Summary for Pond CB1: DP1, 25.25 Rim

[82] Warning: Early inflow requires earlier time span [57] Hint: Peaked at 27.68' (Flood elevation advised)

Inflow Area	a =	0.353 ac,10	0.00% Imperviou	is, Inflow Depth >	> 6.24" f	or 25-yr event
Inflow	=	3.60 cfs @	11.95 hrs, Volui	me= 0.18	3 af	
Outflow	=	3.60 cfs @	11.95 hrs, Volui	me= 0.18	3 af, Atten	= 0%, Lag= 0.0 min
Primary	=	3.60 cfs @	11.95 hrs, Volui	me= 0.18	3 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 27.68' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	22.75'	8.0" Round Culvert L= 17.2' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 22.75' / 22.10' S= 0.0378 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=3.60 cfs @ 11.95 hrs HW=27.68' (Free Discharge) -1=Culvert (Inlet Controls 3.60 cfs @ 10.32 fps) Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

> Runoff Area=15,377 sf 100.00% Impervious Runoff Depth>7.49" Tc=5.0 min CN=98 Runoff=4.32 cfs 0.220 af

Pond CB1: DP1, 25.25 Rim

Subcatchment P1:

Peak Elev=29.69' Inflow=4.32 cfs 0.220 af 8.0" Round Culvert n=0.013 L=17.2' S=0.0378 '/' Outflow=4.32 cfs 0.220 af

Total Runoff Area = 0.353 ac Runoff Volume = 0.220 af Average Runoff Depth = 7.49" 0.00% Pervious = 0.000 ac 100.00% Impervious = 0.353 ac

Summary for Subcatchment P1:

[49] Hint: Tc<2dt may require smaller dt

Runoff = 4.32 cfs @ 11.95 hrs, Volume= Routed to Pond CB1 : DP1, 25.25 Rim 0.220 af, Depth> 7.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type II 24-hr 50-yr Rainfall=8.48"

A	rea (sf)	CN	Description			
	6,899	98	Paved park	ing, HSG D		
	1,018	98	Roofs, HSG	6 D		
	628	98	Roofs, HSC	6 D		
	2,672	98	Roofs, HSG	6 D		
	1,210	98	Roofs, HSG	6 D		
	615	98	Roofs, HSC	6 D		
	77	98	Roofs, HSC	6 D		
	626	98	Roofs, HSG	6 D		
	1,632	98	Paved park	ing, HSG D		
	15,377	98	Weighted A	verage		
	15,377		100.00% In	npervious A	rea	
				-		
Тс	Length	Slop	e Velocity	Capacity	Description	
(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)		
5.0					Direct Entry,	
					• •	

Summary for Pond CB1: DP1, 25.25 Rim

[82] Warning: Early inflow requires earlier time span [57] Hint: Peaked at 29.69' (Flood elevation advised)

Inflow Area	ı =	0.353 ac,10	0.00% Imperviou	s, Inflow Depth >	7.49" for	50-yr event
Inflow	=	4.32 cfs @	11.95 hrs, Volun	ne= 0.220) af	-
Outflow	=	4.32 cfs @	11.95 hrs, Volun	ne= 0.220) af, Atten= 0	%, Lag= 0.0 min
Primary	=	4.32 cfs @	11.95 hrs, Volun	ne= 0.220) af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 29.69' @ 11.95 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	22.75'	8.0" Round Culvert L= 17.2' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 22.75' / 22.10' S= 0.0378 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=4.32 cfs @ 11.95 hrs HW=29.69' (Free Discharge) -1=Culvert (Inlet Controls 4.32 cfs @ 12.37 fps)

APPENDIX D

SOIL SURVEY INFORMATION



United States Department of Agriculture

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource Report for Rockingham County, New Hampshire





	MAP L	EGEND		MAP INFORMATION
Area of Inte	rest (AOI)	100	Spoil Area	The soil surveys that comprise your AOI were mapped at
	Area of Interest (AOI)	۵	Stony Spot	1:24,000.
Soils	Coll Mars Halt Dalaman	0	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
		Ŷ	Wet Spot	······································
~	Soli Map Unit Lines	Δ	Other	Enlargement of maps beyond the scale of mapping can cause
	Soil Map Unit Points		Special Line Features	line placement. The maps do not show the small areas of
Special P	Special Point Features Blowout		tures	contrasting soils that could have been shown at a more detailed scale
9	Blowout		Streams and Canals	
×		Transporta	ation	Please rely on the bar scale on each map sheet for map
英		+++	Rails	measurements.
<u>ہ</u>	Closed Depression	~	Interstate Highways	Source of Map: Natural Resources Conservation Service
X	Gravel Pit	~	US Routes	Web Soil Survey URL:
00	Gravelly Spot	\sim	Major Roads	Coordinate System: Web Mercator (EPSG:3857)
Ø	Landfill	\sim	Local Roads	Maps from the Web Soil Survey are based on the Web Mercator
A.	Lava Flow	Backgrou	nd	projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the
عله	Marsh or swamp	Ma.	Aerial Photography	Albers equal-area conic projection, should be used if more
Ŕ	Mine or Quarry			accurate calculations of distance or area are required.
0	Miscellaneous Water			This product is generated from the USDA-NRCS certified data as
0	Perennial Water			of the version date(s) listed below.
\vee	Rock Outcrop			Soil Survey Area: Rockingham County, New Hampshire
+	Saline Spot			Survey Area Data: Version 24, Aug 31, 2021
	Sandy Spot			Soil man units are labeled (as space allows) for man scales
-	Severely Eroded Spot			1:50,000 or larger.
۵	Sinkhole			Date(s) aerial images were photographed: Dec 31 2000 Son
Š.	Slide or Slip			9, 2017
ø	Sodic Spot			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
699	Urban land	0.4	100.0%
Totals for Area of Interest		0.4	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Rockingham County, New Hampshire

699—Urban land

Map Unit Composition

Urban land: 85 percent *Minor components:* 15 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Minor Components

Not named

Percent of map unit: 15 percent Hydric soil rating: No

<u>APPENDIX E</u>

FEMA FIRM MAP

National Flood Hazard Layer FIRMette



Legend



<u>APPENDIX F</u>

INSPECTION & LONG TERM

MAINTENANCE PLAN

AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

INSPECTION & LONG-TERM MAINTENANCE PLAN FOR COMMERCIAL DEVELOPMENT

1 CONGRESS STREET PORTSMOUTH, NH

Introduction

The intent of this plan is to provide the One Market Square, LLC (herein referred to as "owner") with a list of procedures that document the inspection and maintenance requirements of the stormwater management system for this development. Specifically, the proposed roof drain filter (collectively referred to as the "Stormwater Management System"). The contact information for the owner shall be kept current, and if there is a change of ownership of the property this plan must be transferred to the new owner.

The following inspection and maintenance program is necessary to keep the stormwater management system functioning properly and will help in maintaining a high quality of stormwater runoff to minimize potential environmental impacts. By following the enclosed procedures, the owner will be able to maintain the functional design of the stormwater management system and maximize its ability to remove sediment and other contaminants from site generated stormwater runoff.

<u>Annual Report</u>

The owner shall prepare an annual Inspection & Maintenance Report. The report shall include a summary of the system's maintenance and repair by transmission of the Inspection & Maintenance Log and other information as required. A copy of the report shall be delivered annually to the Portsmouth DPW, if required.

Inspection & Maintenance Checklist/Log

The following pages contain the Stormwater Management System Inspection & Maintenance Requirements and a blank copy of the Stormwater Management System Inspection & Maintenance Log. These forms are provided to the owner as a guideline for performing the inspection and maintenance of the Stormwater Management System. This is a guideline and should be periodically reviewed for conformance with current practice and standards.

Stormwater Management System Components

The Stormwater Management System is designed to mitigate the quality of site-generated stormwater runoff. As a result, the design includes the following elements:

Non-Structural BMPs

Non-Structural best management practices (BMP's) include temporary and permanent measures that typically require less labor and capital inputs and are intended to provide protection against erosion of soils. Examples of non-structural BMP's on this project may include but are not limited to:

- Dust control
- Sediment barriers
- Stabilized construction entrance
- Catch basin basket
- Dewatering control

Structural BMPs

Structural BMPs are more labor and capital-intensive structures or installations that require more specialized personnel to install. Examples on this project include but are not limited to:

- Bio Clean Downspout Filter
- Closed Drainage System

Inspection and Maintenance Requirements

The following summarizes the inspection and maintenance requirements for the various BMP's that may be found on this project.

- 1. **Bio Clean Downspout Filter:** Refer to the manufacturer's Operation and Maintenance manual for guidance, included herewith.
- 2. Storm Drains: Monitor accumulation of debris in drainage structures monthly or after significant rain events. Remove sediments when they accumulate within the outlet pipe. During construction, maintain inlet protection until all areas have been stabilized. Prior to the end of construction, inspect the drains and basins for accumulations and remove and clean by jet-vacuuming.

Pollution Prevention

The following pollution prevention activities shall be undertaken to minimize potential impacts on stormwater runoff quality. The Contractor is responsible for all activities during construction. The Owner is responsible thereafter.

Spill Procedures

Any discharge of waste oil or other pollutant shall be reported immediately to the New Hampshire Department of Environmental Services (NHDES). The Contractor/Owner will be responsible for any incident of groundwater contamination resulting from the improper discharge of pollutants to the stormwater system, and may be required by NHDES to remediate incidents that may impact groundwater quality. If the property ownership is transferred, the new owner will be informed of the legal responsibilities associated with operation of the stormwater system, as indicated above.

Sanitary Facilities

Sanitary facilities shall be provided during all phases of construction.

Material Storage

No on site trash facility is provided until homes are constructed. The contractors are required to remove trash from the site. Hazardous material storage is prohibited.

Material Disposal

All waste material, trash, sediment, and debris shall be removed from the site and disposed of in accordance with applicable local, state, and federal guidelines and regulations. Removed sediments shall be if necessary dewatered prior to disposal.



TOOLS AND EQUIPMENT NEEDED:

DETAIL OF PARTS

- 1. Medium size flat scred driver
- 2. BioSorb hydrocarbon boom. 25-1/2" X 2" dia. (Call Bio Clean to order)
- 3. Trash container or bag
- 4. Wooden dowel approx. 3' x 1/2' dia.



P.O. BOX 869, Oceanside, Ca. 92049 (760) 433-7640 Fax (760) 433-3176 www.biocleanenvironmental.net

PAGE 1 OF 5



PAGE 2 OF 5



P.O. BOX 869, Oceanaide, Ca. 92049 (760) 433-7640 Fax (760) 433-3176 www.biocleanenvironmental.net



REPLACING FILTER INSERT


REPLACING FILTER



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APPROPRIATE INSTALLATION



FILTER CENTERED BETWEEN PIPES WITH EVEN GAPS ON TOP AND BOTTOM



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CATCH BASIN BASKET CONSTRUCTION MAINTENANCE SHEET

INSPECTION REQUIREMENTS			
ACTION TAKEN FREQUENCY MAINTENANCE REQUIREMENTS			
-Check for damage to basket -Remove sediment from basket	Within 24 hours of rainfall, Daily during extended rainfall	-Repair basket as necessary to prevent particles from reaching drainage system, or to prevent flooding. -Empty basket after every storm, or if clogged.	

MAINTENANCE LOG		
INSPECTOR CONTACT INFO		
REASON FOR INSPECTION		
□LARGE STORM EVENT □PERIODIC CHECK-IN		
DESCRIBE ANY PROBLEMS, NEEDED MAINTENANCE		
PERFORMED BY		

CLOSED DRAINAGE STRUCTURE LONG-TERM MAINTENANCE SHEET

INSPECTION REQUIREMENTS		
ACTION TAKEN	FREQUENCY	MAINTENANCE REQUIREMENTS
-Outlet Control Structures -Drain Manholes -Catch Basins	Every other Month	Check for erosion or short-circuiting Check for sediment accumulation Check for floatable contaminants
-Drainage Pipes	1 time per 2 years	Check for sediment accumulation/clogging, or soiled runoff. Check for erosion at outlets.

MAINTENANCE LOG			
PROJECT NAME			
INSPECTOR NAME	INSPECTOR CONTACT INFO		
DATE OF INSPECTION	REASON FOR INSPECTION		
	LARGE STORM EVENT PERIODIC CHECK-IN		
IS CORRECTIVE ACTION NEEDED?	DESCRIBE ANY PROBLEMS, NEEDED MAINTENANCE		
□YES □NO			
DATE OF MAINTENANCE	PERFORMED BY		
NOTES			

STABILIZED CONSTRUCTION ENTRANCE CONSTRUCTION MAINTENANCE SHEET

INSPECTION REQUIREMENTS			
ACTION TAKEN	FREQUENCY	MAINTENANCE REQUIREMENTS	
ENTRANCE SURFACE -Check for sediment accumulation/clogging of stone -Check Vegetative filter strips	After heavy rains, as necessary	-Top dress pad with new stone. -Replace stone completely if completely clogged. -Maintain vigorous stand of vegetation.	
WASHING FACILITIES (if applicable) -Monitor Sediment Accumulation	As often as necessary	-Remove Sediments from traps.	

MAINTENANCE LOG		
PROJECT NAME		
INSPECTOR NAME	INSPECTOR CONTACT INFO	
DATE OF INSPECTION	REASON FOR INSPECTION	
	□LARGE STORM EVENT □PERIODIC CHECK-IN	
IS CORRECTIVE ACTION NEEDED?	DESCRIBE ANY PROBLEMS, NEEDED MAINTENANCE	
□YES □NO		
DATE OF MAINTENANCE	PERFORMED BY	
NOTES		



Methods for Disposing Non-Native Invasive Plants

Prepared by the Invasives Species Outreach Group, volunteers interested in helping people control invasive plants. Assistance provided by the Piscataquog Land Conservancy and the NH Invasives Species Committee. Edited by Karen Bennett, Extension Forestry Professor and Specialist.



Tatarian honeysuckle Lonicera tatarica USDA-NRCS PLANTS Database / Britton, N.L., and A. Brown. 1913. An illustrated flora of the northern United States, Canada and the British Possessions. Vol. 3: 282.

Non-native invasive plants crowd out natives in natural and managed landscapes. They cost taxpayers billions of dollars each year from lost agricultural and forest crops, decreased biodiversity, impacts to natural resources and the environment, and the cost to control and eradicate them.

Invasive plants grow well even in less than desirable conditions such as sandy soils along roadsides, shaded wooded areas, and in wetlands. In ideal conditions, they grow and spread even faster. There are many ways to remove these nonnative invasives, but once removed, care is needed to dispose the removed plant material so the plants don't grow where disposed.

Knowing how a particular plant reproduces indicates its method of spread and helps determine

the appropriate disposal method. Most are spread by seed and are dispersed by wind, water, animals, or people. Some reproduce by vegetative means from pieces of stems or roots forming new plants. Others spread through both seed and vegetative means.

Because movement and disposal of viable plant parts is restricted (see NH Regulations), viable invasive parts can't be brought to most transfer stations in the state. Check with your transfer station to see if there is an approved, designated area for invasives disposal. This fact sheet gives recommendations for rendering plant parts nonviable.

Control of invasives is beyond the scope of this fact sheet. For information about control visit <u>www.nhinvasives.org</u> or contact your UNH Cooperative Extension office.

New Hampshire Regulations

Prohibited invasive species shall only be disposed of in a manner that renders them nonliving and nonviable. (Agr. 3802.04)

No person shall collect, transport, import, export, move, buy, sell, distribute, propagate or transplant any living and viable portion of any plant species, which includes all of their cultivars and varieties, listed in Table 3800.1 of the New Hampshire prohibited invasive species list. (Agr 3802.01)

How and When to Dispose of Invasives?

To prevent seed from spreading remove invasive plants before seeds are set (produced). Some plants continue to grow, flower and set seed even after pulling or cutting. Seeds can remain viable in the ground for many years. If the plant has flowers or seeds, place the flowers and seeds in a heavy plastic bag "head first" at the weeding site and transport to the disposal site. The following are general descriptions of disposal methods. See the chart for recommendations by species.

Burning: Large woody branches and trunks can be used as firewood or burned in piles. For outside burning, a written fire permit from the local forest fire warden is required unless the ground is covered in snow. Brush larger than 5 inches in diameter can't be burned. Invasive plants with easily airborne seeds like black swallow-wort with mature seed pods (indicated by their brown color) shouldn't be burned as the seeds may disperse by the hot air created by the fire.

Bagging (solarization): Use this technique with softertissue plants. Use heavy black or clear plastic bags (contractor grade), making sure that no parts of the plants poke through. Allow the bags to sit in the sun for several weeks and on dark pavement for the best effect.

Tarping and Drying: Pile material on a sheet of plastic



Japanese knotweed Polygonum cuspidatum USDA-NRCS PLANTS Database / Britton, N.L., and A. Brown. 1913. An illustrated flora of the northern United States, Canada and the British Possessions. Vol. 1: 676.

and cover with a tarp, fastening the tarp to the ground and monitoring it for escapes. Let the material dry for several weeks, or until it is clearly nonviable.

Chipping: Use this method for woody plants that don't reproduce vegetatively.

Burying: This is risky, but can be done with watchful diligence. Lay thick plastic in a deep pit before placing the cut up plant material in the hole. Place the material away from the edge of the plastic before covering it with more heavy plastic. Eliminate as much air as possible and toss in soil to weight down the material in the pit. Note that the top of the buried material should be at least three feet underground. Japanese knotweed should be at least 5 feet underground!

Drowning: Fill a large barrel with water and place soft-tissue plants in the water. Check after a few weeks and look for rotted plant material (roots, stems, leaves, flowers). Well-rotted plant material may be composted. A word of caution- seeds may still be viable after using this method. Do this before seeds are set. This method isn't used often. Be prepared for an awful stink!

Composting: Invasive plants can take root in compost. Don't compost any invasives unless you know there is no viable (living) plant material left. Use one of the above techniques (bagging, tarping, drying, chipping, or drowning) to render the plants nonviable before composting. Closely examine the plant before composting and avoid composting seeds.

Be diligent looking for seedlings for years in areas where removal and disposal took place.

Suggested Disposal Methods for Non-Native Invasive Plants

This table provides information concerning the disposal of removed invasive plant material. If the infestation is treated with herbicide and left in place, these guidelines don't apply. Don't bring invasives to a local transfer station, unless there is a designated area for their disposal, or they have been rendered non-viable. This listing includes wetland and upland plants from the New Hampshire Prohibited Invasive Species List. The disposal of aquatic plants isn't addressed.

Woody Plants	Method of Reproducing	Methods of Disposal
Norway maple (Acer platanoides) European barberry (Berberis vulgaris) Japanese barberry (Berberis thunbergii) autumn olive (Elaeagnus umbellata) burning bush (Euonymus alatus)	Fruit and Seeds	 Prior to fruit/seed ripening Seedlings and small plants Pull or cut and leave on site with roots exposed. No special care needed. Larger plants Use as firewood. Make a brush pile. Chip. Burn.
Morrow's honeysuckle (Lonicera morrowii) Tatarian honeysuckle (Lonicera tatarica) showy bush honeysuckle (Lonicera x bella) common buckthorn (Rhamnus cathartica) glossy buckthorn (Frangula alnus)		 After fruit/seed is ripe Don't remove from site. Burn. Make a covered brush pile. Chip once all fruit has dropped from branches. Leave resulting chips on site and monitor.
oriental bittersweet (Celastrus orbiculatus) multiflora rose (Rosa multiflora)	Fruits, Seeds, Plant Fragments	 Prior to fruit/seed ripening Seedlings and small plants Pull or cut and leave on site with roots exposed. No special care needed. Larger plants Make a brush pile. Burn.
	V	 After fruit/seed is ripe Don't remove from site. Burn. Make a covered brush pile. Chip – only after material has fully dried (1 year) and all fruit has dropped from branches. Leave resulting chips on site and monitor.

Non-Woody Plants	Method of Reproducing	Methods of Disposal
<pre>garlic mustard (Alliaria petiolata) spotted knapweed (Centaurea maculosa) • Sap of related knapweed can cause skin irritation and tumors. Wear gloves when handling. black swallow-wort (Cynanchum nigrum) • May cause skin rash. Wear gloves and long sleeves when handling. pale swallow-wort (Cynanchum rossicum) giant hogweed (Heracleum mantegazzianum) • Can cause major skin rash. Wear gloves and long sleeves when handling. dame's rocket (Hesperis matronalis) perennial pepperweed (Lepidium latifolium) purple loosestrife (Lythrum salicaria) Japanese stilt grass (Microstegium vimineum) mile-a-minute weed (Polygonum perfoliatum)</pre>	Fruits and Seeds	 Prior to flowering Depends on scale of infestation Small infestation Pull or cut plant and leave on site with roots exposed. Large infestation Pull or cut plant and pile. (You can pile onto or cover with plastic sheeting). Monitor. Remove any re-sprouting material. During and following flowering Do nothing until the following year or remove flowering heads and bag and let rot. Small infestation Pull or cut plant and leave on site with roots exposed. Large infestation Pull or cut plant and pile remaining material. (You can pile onto plastic or cover with plastic sheeting). Monitor. Remove any re-sprouting material. (You can pile onto plastic or cover with plastic sheeting). Monitor. Remove any re-sprouting material.
common reed (<i>Phragmites australis</i>) Japanese knotweed (<i>Polygonum cuspidatum</i>) Bohemian knotweed (<i>Polygonum x bohemicum</i>)	Fruits, Seeds, Plant Fragments Primary means of spread in these species is by plant parts. Although all care should be given to preventing the dispersal of seed during control activities, the presence of seed doesn't materially influence disposal activities.	 Small infestation Bag all plant material and let rot. Never pile and use resulting material as compost. Burn. Large infestation Remove material to unsuitable habitat (dry, hot and sunny or dry and shaded location) and scatter or pile. Monitor and remove any sprouting material. Pile, let dry, and burn.

January 2010

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October 18th, 2022

John Chagnon, PE, LLS Ambit Engineering 200 Griffin Road Unit 3 Portsmouth, NH 03801

Natural Gas to 1 Congress Street Portsmouth, NH

Hi John,

Unitil/Northern Utilities Natural Gas Division has reviewed the requested site for natural gas service:

Unitil hereby confirms that natural gas is available for the proposed building at 1 Congress Street, Portsmouth, NH

If you have any questions, please contact me at 603-534-2379.

Sincerely,

M

Dave MacLean Senior Business Development Rep

T 603.294.5261 M 603.534.2379 F 603.294.5264 Email macleand@unitil.com

OWNER:

ONE MARKET SQUARE LLC 3 PLEASANT STREET SUITE #400 PORTSMOUTH, NH 03801 TEL. (603) 427-0725

LAND SURVEYOR & CIVIL **ENGINEER:**

AMBIT ENGINEERING, INC. 200 GRIFFIN ROAD, UNIT 3 PORTSMOUTH, N.H. 03801 Tel. (603) 430-9282 Fax (603) 436-2315

ARCHITECT:

ARCOVE LLC 3 CONGRESS STREET SUITE 1 PORTSMOUTH, NH 03801 TEL. (603) 731-5187

LANDSCAPE ARCHITECT:

TERRA FIRMA LANDSCAPE ARCHITECTURE

163A COURT STREET PORTSMOUTH, NH 03801 TEL. (603) 430-8388

GEOTECHNICAL:

GEOTECHNICAL SERVICES INC. 18 COTE AVENUE, UNIT 11 GOFFSTOWN, N.H. 03045 Tel. (603) 624-2722

LAND USE ATTORNEY:

BRUTON & BERUBE, PLLC 601 CENTRAL AVENUE DOVER, N.H. 03820 Tel. (603) 749-4529





PORTSMOUTH APPROVAL CONDITIONS NOTE: ALL CONDITIONS ON THIS PLAN SET SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE CITY OF PORTSMOUTH SITE PLAN REVIEW REGULATIONS.

APPROVED BY THE PORTSMOUTH PLANNING BOARD

		9 B			
Map 10.5A21A					
C	haracter	Districts			
â	and Civic	Districts			
Lege	Legend				
	Downtow	n Overlay District			
	Historic [District			
Chara	cter Dist	ricts			
	CD5	Character District 5			
	CD4	Character District 4			
	CD4-W	Character District 4-W			
	CD4-L1	Character District 4-L1			
	CD4-L2	Character District 4-L2			
Civic I	District				
	Civic District				
Municipal District					
Municipal District					



INDEX OF SHEETS

C1	EXISTIN
C2	DEMOLI
C3	PROJEC
<u> </u>	ARCHITE
	LANDSCA
C4	UTILITY
C5	GRADIN
C6	PARKIN
C7	UTILITY
C8	OFFSITE
D1-D6	DETAILS

CHAIRMAN

DATE

COMMERCIAL DEVELOPMENT **1 CONGRESS STREET** PORTSMOUTH, NEW HAMPSHIRE SITE PERMIT PLANS

HIGH /HANOVER

PARKING FACILITY



BOUNDARY PLAN NG CONDITIONS PLAN ITION PLAN CT SITE PLAN ECTURAL PLANS CAPE PLANS PLAN NG PLAN NG LEVEL PLAN PLAN- ALLEY E GRADING- ALLEY

UTILITY CONTACTS

ELECTRIC: EVERSOURCE 1700 LAFAYETTE ROAD PORTSMOUTH, N.H. 03801 Tel. (603) 436-7708, Ext. 555.5678 ATTN: MICHAEL BUSBY, P.E. (MANAGER)

SEWER & WATER: PORTSMOUTH DEPARTMENT OF PUBLIC WORKS 680 PEVERLY HILL ROAD PORTSMOUTH, N.H. 03801 Tel. (603) 427-1530 ATTN: JIM TOW

NATURAL GAS: UNITIL 325 WEST ROAD PORTSMOUTH, N.H. 03801 Tel. (603) 294-5144 ATTN: DAVE BEAULIEU

COMMUNICATIONS: FAIRPOINT COMMUNICATIONS JOE CONSIDINE 1575 GREENLAND ROAD GREENLAND, N.H. 03840 Tel. (603) 427-5525

CABLE: COMCAST 155 COMMERCE WAY PORTSMOUTH, N.H. 03801 Tel. (603) 679-5695 (X1037) ATTN: MIKE COLLINS

PERMIT LIST: NHDES SEWER DISCHARGE PERMIT: TO BE SUBMITTED PORTSMOUTH HDC: PENDING PORTSMOUTH SITE PLAN: PENDING

100

98x0

-0-

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LEGEND:



PROPOSED

97x3

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NSO GSO

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PM

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RCP

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VC

FP

EL

FF

INV

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TBM

TYP

DIG SAFE

NSO GSO +++ CB **O**TMH (14)TBD CI COP DI PVC RCP -----VC EP EL. FF

PROPERTY LINE SETBACK SEWER PIPE SEWER LATERAL GAS LINE STORM DRAIN WATER LINE WATER SERVICE UNDERGROUND ELECTRIC OVERHEAD ELECTRIC/WIRES FOUNDATION DRAIN EDGE OF PAVEMENT (EP) CONTOUR SPOT ELEVATION UTILITY POLE

WALL MOUNTED EXTERIOR LIGHTS TRANSFORMER ON CONCRETE PAD

ELECTRIC HANDHOLD

SHUT OFFS (WATER/GAS)

GATE VALVE

HYDRANT

CATCH BASIN

SEWER MANHOLE

DRAIN MANHOLE TELEPHONE MANHOLE

PARKING SPACE COUNT

PARKING METER

LANDSCAPED AREA

TO BE DETERMINED CAST IRON PIPE COPPER PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE REINFORCED CONCRETE PIPE ASBESTOS CEMENT PIPE VITRIFIED CLAY PIPE EDGE OF PAVEMENT ELEVATION FINISHED FLOOR INVERT SLOPE FT/FT TEMPORARY BENCH MARK TYPICAL

SITE PERMIT PLANS COMMERCIAL DEVELOPMENT **1 CONGRESS STREET** PORTSMOUTH, N.H.

INV

S =

TBM

TYP



AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors 200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315

PLAN SET SUBMITTAL DATE: 18 OCTOBER 2022



LEGEND:

N/F RP	NOW OR FORMERLY RECORD OF PROBATE
RCRD	ROCKINGHAM COUNTY
	REGISTRY OF DEEDS
RR SPK	RAILROAD SPIKE
$\begin{pmatrix} 11\\ 21 \end{pmatrix}$	MAP 11/LOT 21
OIR FND	IRON ROD FOUND
O IP FND	IRON PIPE FOUND
• IR SET	IRON ROD SET
◉DH FND	DRILL HOLE FOUND
O DH SET	DRILL HOLE SET
● NHHB	NHDOT BOUND FOUND
•тв	TOWN BOUND
●BND w/DH	BOUND WITH DRILL HOLE
●ST BND w/DH	STONE BOUND WITH DRILL HOLE

LENGTH TABLE

LINE	BEARING	DISTANCE
L1	S57°27'42"W	18.36'
L2	N28°53'22"W	15.00'
L3	N61°07'46"E	18.19'
L4	S29°05'39"E	5.28'

PLAN REFERENCES:

1) PLAN OF A LOT OF LAND IN PORTSMOUTH N.H. BELONGING TO THE ESTATE OF CHAS. H. MENDUM, SCALE: 1 IN = 20 FT, DATED JULY 1, 1908, PREPARED BY WM. A. GROVER CIVIL ENGINEER, RCRD 00469.

2) LAND ON HAVEN COURT PORTSMOUTH, N.H., F.W. HARTFORD TO HISLOP GARAGE CO., SCALE: 1IN. = 20FT., DATED FEB. 1926, PREPARED BY JOHN W. DURGIN CIVIL ENGINEER, RCRD 00376.

3) LOT PLAN NOS. 7–13 CONGRESS ST. PORTSMOUTH, N.H., SCALE: 1/4 INCH = 1 FOOT, DATED MAR. 1937, PREPARED BY JOHN W. DURGIN CIVIL ENGINEER, NOT RECORDED.
4) PLAN OF LOT NOS. 173 – 181 FLEET ST. PORTSMOUOTH, N.H., SCALE: 1IN. = 20FT., DATED NOV. 1945, PREPARED BY JOHN W. DURGIN CIVIL ENGINEER, NOT RECORDED
5) LAND IN PORTSMOUTH, N.H., RALPH T. WOOD & IRA A. NEWICK TO J.J. NEWBERRY CO., SCALE: 1IN. = 20FT., DATED MAY 1946, PREPARED BY JOHN W. DURGIN CIVIL ENGINEER, RCRD 01243.

6) PLAN OF LOT PORTSMOUTH, N.H., NEWICK & WOOD INC. TO CITY OF PORTSMOUTH, SCALE 1IN. = 40FT., DATED MAR. 1956, PREPARED BY JOHN W. DURGIN CIVIL ENGINEERS, RCRD 02537

7) PLAN OF LOT 26 – 30 HIGH ST. PORTSMOUTH, N.H., SCALE: 1IN. = 10FT., DATED OCT. 1961, PREPARED BY JOHN W. DURGIN CIVIL ENGINEERS, NOT RECORDED 8) PLAN OF LAND FOR RICHARD A. CABRAL & BRUCE E. NADEAU CONGRESS/FLEET ST. COUNTY OF ROCKINGHAM PORTSMOUTH, N.H., SCALE: 1" = 20', DATED JANUARY 1987, PREPARED BY RICHARD P. MILLETTE AND ASSOCIATED, RCRD C-16161 9) SUBDIVISION OF ASSESSOR'S PARCEL 117/12, LAND OF WENBERRY ASSOCIATES, LLC, FLEET STREET & HAVEN COURT PORTSMOUTH, NEW HAMPSHIRE FOR CITY OF PORTSMOUTH, N.H., SCALE: 1" = 20', DATED 11/22/05, PREPARED BY JAMES VERRA AND ASSOCIATES, INC., RCRD C-34500.

CONCRETE

RETAINING

- CLEANOUT

ELEET STREET

APPROXIMATE

BUILDING LOCATION

WALL

6' H. CHAIN

LINK FENCE

- BOLLARD

I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000.



JOHN R. CHAGNON, LLS 738

.26.22 DATE





DEMOLITION NOTES

- A) THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE DESIGNER. IT IS THE CONTRACTORS' RESPONSIBILITY TO LOCATE UTILITIES AND ANTICIPATE CONFLICTS. CONTRACTOR SHALL REPAIR EXISTING UTILITIES DAMAGED BY THEIR WORK AND RELOCATE EXISTING UTILITIES THAT ARE REQUIRED TO BE RELOCATED PRIOR TO COMMENCING ANY WORK IN THE IMPACTED AREA OF THE PROJECT.
- B) ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTORS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES. THE CONTRACTOR SHALL COORDINATE REMOVAL, RELOCATION, DISPOSAL, OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
- C) ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION / DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO THE ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- D) THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
- E) SAWCUT AND REMOVE PAVEMENT ONE FOOT OFF PROPOSED EDGE OF PAVEMENT TRENCH IN AREAS WHERE PAVEMENT IS TO BE REMOVED.
- F) IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL THE PERMIT APPROVALS.
- G) THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL CONSTRUCTION PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR ANY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK.
- H) THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE, UTILITIES, VEGETATION, PAVEMENT, AND CONTAMINATED SOIL WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ANY EXISTING DOMESTIC / IRRIGATION SERVICE WELLS IN THE PROJECT AREA IDENTIFIED DURING THE CONSTRUCTION AND NOT CALLED OUT ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER FOR PROPER CAPPING / RE-USE.
-) ALL WORK WITHIN THE CITY OF PORTSMOUTH RIGHT OF WAY SHALL BE COORDINATED WITH THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS (DPW).
-) REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND REMOVE ALL SLUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF-SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
- K) CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED, THE CONTRACTOR SHALL EMPLOY A NH LICENSED LAND SURVEYOR TO REPLACE THEM.
- L) PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS WITHIN CONSTRUCTION LIMITS AND MAINTAIN FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE HIGH FLOW SILT SACK BY ACF ENVIRONMENTAL OR APPROVED EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH RAIN OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF WARRANTED OR FABRIC BECOMES CLOGGED. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
- M) THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFELY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION
- N) ANY CONTAMINATED MATERIAL REMOVED DURING THE COURSE OF THE WORK WILL REQUIRE HANDLING IN ACCORDANCE WITH NHDES REGULATIONS. CONTRACTOR SHALL HAVE A HEALTH AND SAFETY PLAN IN PLACE, AND COMPLY WITH ALL APPLICABLE PERMITS, APPROVALS, AUTHORIZATIONS, AND REGULATIONS











AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

200 Griffin Road – Unit 3 Portsmouth, N.H. 03801–7114 Tel (603) 430-9282 Fax (603) 436-2315

NOTES:

1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.

2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

COMMERCIAL DEVELOPMENT ONE CONGRESS STREET PORTSMOUTH, N.H.

0 ISSUED FOR COMMENT 9/6/22 NO. DESCRIPTION DATE REVISIONS



DEMOLITION

PLAN

FB 309 PG 15



10/18/2022			
	gsf	use	
new construction	total new	existing	pr
4th floor	7,812	n/a	res
3rd floor	9,355	n/a	resi
2nd floor	9,355	n/a	
1st floor (footprint)	9,355	n/a	retail/rest
basement	9,581	n/a	parking & s
total new	45,458		
evisting to remain and he renovated		ovisting	
existing to remain and be renovated	2.422	existing	pr
existing to remain and be renovated 4th floor - 1&3 Congress St	2,422	existing residential	pr resi
existing to remain and be renovated 4th floor - 1&3 Congress St 3rd floor - 1&3 Congress St	2,422 2,725	existing residential residential	pr resi resi
existing to remain and be renovated 4th floor - 1&3 Congress St 3rd floor - 1&3 Congress St 2nd floor - 1&3 Congress St	2,422 2,725 2,725	existing residential residential office	pr resi resi
existing to remain and be renovated 4th floor - 1&3 Congress St 3rd floor - 1&3 Congress St 2nd floor - 1&3 Congress St 1st floor - 1&3 Congress St (footprint)	2,422 2,725 2,725 2,725 2,725	existing residential residential office office&retail	pr resi restaurant
existing to remain and be renovated 4th floor - 1&3 Congress St 3rd floor - 1&3 Congress St 2nd floor - 1&3 Congress St 1st floor - 1&3 Congress St (footprint) basement - 1&3 Congress	2,422 2,725 2,725 2,725 2,725 2,725	existing residential residential office office&retail storage/mech	pr resi restaurant storage/s
existing to remain and be renovated 4th floor - 1&3 Congress St 3rd floor - 1&3 Congress St 2nd floor - 1&3 Congress St 1st floor - 1&3 Congress St (footprint) basement - 1&3 Congress total renovation	2,422 2,725 2,725 2,725 2,725 2,725 13,322	existing residential residential office office&retail storage/mech	pr resi restaurant storage/s
existing to remain and be renovated 4th floor - 1&3 Congress St 3rd floor - 1&3 Congress St 2nd floor - 1&3 Congress St 1st floor - 1&3 Congress St (footprint) basement - 1&3 Congress total renovation	2,422 2,725 2,725 2,725 2,725 13,322 12,080	existing residential residential office office&retail storage/mech	pr resi restaurant storage/s
existing to remain and be renovated 4th floor - 1&3 Congress St 3rd floor - 1&3 Congress St 2nd floor - 1&3 Congress St 1st floor - 1&3 Congress St (footprint) basement - 1&3 Congress total renovation TOTAL FOOTPRINT new + reno TOTAL BUILDING new + reno	2,422 2,725 2,725 2,725 2,725 13,322 12,080 58,780	existing residential residential office office&retail storage/mech	pr resi restaurant storage/s

ZONING DATA: SEE SUBMISSION PACKAGE

THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.

ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

DATE







Ambit Engineering Inc Civil Engineering 200 Griffin Rd Unit 3 Portsmouth NH 03801 (603) 430-9282 ambitengineering.com

Terra Firma Landscape Landscape Architecture 163a Court St Portsmouth NH 03801 (603) 531-9109 terrafirmalandarch.com

1 CONGRESS STREET

PORTSMOUTH, NH

ONE MARKET SQUARE

Scale: Date:		1/8" = 1'-0" 10/18/2022
Projec	t Number:	1002
	REVISIONS	
NO.	DESCRIPTION	DATE

SITE PLAN REVIEW

BASEMENT FLOOR PLAN







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1 CONGRESS STREET

PORTSMOUTH, NH

ONE MARKET SQUARE

Scale:		1/8" = 1'-0"
Date:		10/18/2022
Projec	t Number:	1002
	REVISIONS	
NO.	DESCRIPTION	DATE









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1 CONGRESS STREET

PORTSMOUTH, NH

ONE MARKET SQUARE

Project Number:	1002	
Date:	10/18/2022	
Scale:	1/8" = 1'-0"	

REVISIONS		
NO.	DESCRIPTION	DATE

SITE PLAN REVIEW

SECOND FLOOR PLAN







Ambit Engineering Inc Civil Engineering 200 Griffin Rd Unit 3 Portsmouth NH 03801 (603) 430-9282 ambitengineering.com

Terra Firma Landscape Landscape Architecture 163a Court St Portsmouth NH 03801 (603) 531-9109 terrafirmalandarch.com

1 CONGRESS STREET

PORTSMOUTH, NH

ONE MARKET SQUARE

Project Number:	1002
Date:	10/18/2022
Scale:	1/8" = 1'-0"

REVISIONS		
NO.	DESCRIPTION	DATE

SITE PLAN REVIEW

THIRD FLOOR PLAN







Ambit Engineering Inc Civil Engineering 200 Griffin Rd Unit 3 Portsmouth NH 03801 (603) 430-9282 ambitengineering.com

Terra Firma Landscape Landscape Architecture 163a Court St Portsmouth NH 03801 (603) 531-9109 terrafirmalandarch.com

1 CONGRESS STREET

PORTSMOUTH, NH

ONE MARKET SQUARE

Scale: Date:	1/8" = 1'-0" 10/18/2022
Project Number:	1002

REVISIONS		
NO. DESCRIPTION DATE		

SITE PLAN REVIEW

FOURTH FLOOR PLAN





HIP TOP MANSARD ROOF

1 Congress Street	
SLOPED ROOF AREAS	10/13/2022
STEEP ROOF AREA A	4,590
STEEP ROOF AREA B	1,603
Total	6,193
MECHANICAL AREA A	2,793
MECHANICAL AREA B	2,586
Total	5,379
TOTAL ROOF AREA	11,572
Slope roof % of total	53.52%
Flat roof % of total	46.48%



3 Congress St, Ste 1 PORTSMOUTH, NH 03801 T 603.731.5187 arcove.com

Ambit Engineering Inc Civil Engineering 200 Griffin Rd Unit 3 Portsmouth NH 03801 (603) 430-9282 ambitengineering.com

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1 CONGRESS STREET

PORTSMOUTH, NH

ONE MARKET SQUARE

Scale:		1/8" = 1'-0"
Date:		10/18/2022
Project Number:		1002
REVISIONS		

SITE PLAN REVIEW

ROOF PLAN



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2 PROPOSED ELEVATION - NW HAVEN COURT







3 Congress St, Ste 1 PORTSMOUTH, NH 03801 T 603.731.5187 arcove.com

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1 CONGRESS STREET

PORTSMOUTH, NH

ONE MARKET SQUARE LLC

Scale: Date:	1/16" = 1'-0" 10/18/2022
Project Number:	1002
REVISIONS	3

NO. DESCRIPTION

DATE

SITE PLAN REVIEW

ELEVATIONS



VIEW FROM LADD STREET

VIEW FROM HAVEN COURT AT NEWBERRY'S





VIEW FROM MARKET SQUARE



VIEW FROM HIGH STREET AT LADD STREET



Ambit Engineering Inc Civil Engineering 200 Griffin Rd Unit 3 Portsmouth NH 03801 (603) 430-9282 ambitengineering.com

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1 CONGRESS STREET

PORTSMOUTH, NH

ONE MARKET SQUARE LLC

Scale: Date: Project	Number:	10/18/2022 1002
	REVISIONS	
NO.	DESCRIPTION	DATE

SITE PLAN REVIEW

3D VIEWS







LANDSCAPE NOTES:

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. 2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS. 3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

4. ALL PLANT SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT. 5. ALL PLANT MATERIALS SHALL BE EXACTLY AS SPECIFIED BY THE LANDSCAPE ARCHITECT. IF PLANT SPECIES CULTIVARS ARE FOUND TO VARY FROM THAT SPECIFIED AT ANY TIME DURING THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO HAVE THE CONTRACTOR REPLACE THAT PLANT MATERIAL. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANT DELIVERED TO THE SITE FOR AESTHETIC REASONS BEFORE PLANTING. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE QUALITY FOR ALL THE PLANTS. 6. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY OR AT THE JOB SITE WHILE WORK IS ON-GOING TO CONFORMITY TO SPECIFIED QUALITY, SIZE AND VARIETY.

7. PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE AT LEAST ONE (1) GROWING SEASON. ROOT-BOUND PLANTS OR INADEQUATELY SIZED CONTAINERS TO SUPPORT THE PLANT MAY BE DEEMED UNACCEPTABLE. 8. NO PLANT SHALL BE PUT IN THE GROUND BEFORE GRADING HAS BEEN FINISHED AND APPROVED BY THE LANDSCAPE ARCHITECT. 9. ALL PLANTS SHALL BE INSTALLED AND DETAILED PER PROJECT SPECIFICATIONS. 10. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN IF NECESSARY, DURING THE FIRST GROWING SEASON. 11. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR NOT LESS THAN ONE FULL YEAR FROM THE TIME OF PROVISIONAL ACCEPTANCE. DURING THIS TIME, THE OWNER SHALL MAINTAIN ALL PLANT MATERIALS IN THE ABOVE MANNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PLANTS TO ENSURE PROPER CARE. IF THE CONTRACTOR IS DISSATISFIED WITH THE CARE GIVEN, HE SHALL IMMEDIATELY, AND IN SUFFICIENT TIME TO PERMIT THE CONDITION TO BE RECTIFIED, NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OR OTHERWISE FORFEIT HIS CLAIM. LANDSCAPE CONTRACTOR SHALL PRUNE PLANTINGS OF DEAD LIMBS OR TWIGS DURING THE FIRST YEAR OF GROWTH. 12. FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT WILL BE MADE UPON THE CONTRACTOR'S REQUEST AFTER ALL CORRECTIVE WORK HAS BEEN COMPLETED.

13. LANDSCAPE CONTRACTOR SHOULD REPLACE DEAD PLANTINGS IMMEDIATELY UPON OWNER DIRECTION WITHIN THE WARRANTY PERIOD AND AGAIN AT THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL HAVE REPLACED ANY PLANT MATERIAL THAT IS MISSING, NOT TRUE TO SIZE AS SPECIFIED, THAT HAVE DIED, THAT HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES, EXCESSIVE PRUNING OR INADEQUATE OR IMPROPER CARE, OR THAT ARE, IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN UNHEALTHY OR UNSIGHTLY CONDITION. 14. ALL LANDSCAPE AREAS TO BE GRASS COMMON TO REGION EXCEPT FOR INTERIOR LANDSCAPED ISLANDS OR WHERE OTHER PLANT MATERIAL IS CALLED FOR.

15. ALL TREES AND SHRUBS TO BE PLANTED IN MULCH BEDS WITH DEFINED AND CUT EDGES TO SEPARATE TURF GRASS AREAS. 16. FOR ANY LANDSCAPE AREA SO DESIGNATED TO REMAIN, WHETHER ON OR OFF-SITE, REMOVE WEEDS, ROCKS, CONSTRUCTION ITEMS, ETC., THEN

APPLY GRASS SEED OR PINE BARK MULCH AS DEPICTED ON PLANS. 17. LANDSCAPE CONTRACTOR SHALL FEED AND PRUNE EX. TREES, ON OR JUST OFF SITE, THAT HAVE EXPERIENCED ROOT BASE INTRUSION OR DAMAGE DURING CONSTRUCTION IMMEDIATELY AND FOR THE DURATION OF THE WARRANTY PERIOD AT THE DIRECTION OF THE LANDSCAPE ARCHITECT. 18. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY SNOW FENCING AT THE EDGE OF THE EX. TREE CANOPY THE CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS WITHIN THE LANDSCAPED AREAS. ANY DAMAGE TO EXISTING TREES, SHRUBS OR LAWN SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

19. ALL MULCH AREAS SHALL RECEIVE A 2" LAYER OF SHREDDED PINE BARK MULCH. 20. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.

0	10	20



PLEASE NOTE: THIS SHEET IS SCALED FOR 22 BY 34 PAPER, DO NOT REDUCE OR ENLARGE.

30	40 FT	

Date By **Revision Notes** Date Issue Notes Design Firm Name Design Firm Address ONE CONGRESS STREET LANDSCAPE PLAN - CONCEPT ONE CONGRESS STREET Project Manager 1:120 L-01B 10/18/2022 _____ of ____ SRESS10142



6











CUT WIRE BASKET & REMOVE BURLAP

SOIL MIX TO BE 3 PARTS EXISTING SCREENED LOAM WITH 1 PART AGED ORGANIC COMPOST.

ADD MYCOR TREE W/ TERA SORB









-COMPACT SUBGRADE

PAVING DETAIL SCALE: 1"=1'-0"

PLEASE NOTE: THIS SHEET IS SCALED FOR 22 BY 34 PAPER, DO NOT REDUCE OR ENLARGE.

No.	Date	By	Revision Notes		
	No. Date Issue Notes				
Design Firm Design Firm Name Design Firm Address					
Project Title ONE CONGRESS STREET					
Sheet Title					
Project Mar Proj	ject Mana	ger	ONE CONGRESS STREET		
Drawn By			Scale AS NOTED		
Reviewed t Date	0/17/2022		Sheet No.		
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-					

Volta OR EQUAL **Catenary Cable Installation Instructions**

Warnings

CAUTION-risk of fire and this product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

Suitable for wet locations.

Mounting orientation must have light source facing down. Electrical service must be disconnected during installation.

Proper grounding is required to protect against shock and proper operation.

Tools Required

9/64" Allen wrench for 8-32 socket cap screws. 7/16" wrench for jam nuts and coupling nuts. 4' level

Installation

Step 1: Install exterior power supply at remote location up to 40' away.

Step 2: Place clamp assembly in the top of the ring with the carriage bolt in the built-in fixture track. Slide assembly to approximate mounting location.

Step 3: Mount fixture to cables in approximate desired location by placing the cable clamp around the catenary cable. Position power cable from luminaire to nearest point of power supply along steel cable.

Step 4: Move fixture to final desired position. Ensure that clamp arm is perpendicular to cable and fixture. Fully tighten coupling nut and cable clamp screws to torque spec of 8ft-lbs.

Step 5: Adjust turnbuckles to level the fixture horizontally. Turnbuckles have 3" of adjustment length.

Step 6: Tighten jam nuts to secure turnbuckles using 7/16" wrench and metal pin through turnbuckle. Tighten jam nuts to 8ft-lbs.

Step 7: Connect exterior connector from fixture to wire whip. Connect whip to 24V side of power supply. Secure wire to cable with standard cable ties.

Suitable for indoor or outdoor use. Horizontal or vertical mounting. End and side knockout locations of 7/8" (1/2" trade size"). When installing multiple power supplies, separate the enclosures by at least 3" of space from edge to edge to prevent a rise of ambient temperature between the power supplies.

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DESIGN INFORMATION

Critical Information

- All span lengths (B)
- Cable sag (if greater than 5%) (C)
- Minimum fixture height (D)
- Cable angles (E)
- Luminaire center location from the pole (Fx)
- Spec of Structura luminaires (size/shape)(G)

After all of the critical information is obtained by Structura: 1-2 Weeks:

- Preliminary Engineering Approximate sizing for poles and cables without full analysis. Layout Drawings - Visual representation
- of Structura's interpretation of the critical information. · Bill of Materials - List of what will and will not be provided by Structura.
- Budget Quote Pricing for everything Structura will provide in the BOM as well as the Engineering Fee.

Structura, Inc. | 9635 Widmer Rd., Lenexa, KS 66215 | 913.390.8787 | www.structura.com

CATENARY LIGHT DETAIL SCALE: NTS

STRUCTURA

9635 Widmer Rd. Lenexa, KS 66215 projects@structura.com (913) 390-8787 https://structura.com/

2' DIA. SINGLE LAMP PHOTOMETRIC

When designing catenary systems, each site has unique information that needs to be provided to ensure the proper sizing of the system components. The below information needs to be supplied before we can begin preliminary engineering or the quoting process.

After Engineering Fee is paid or Purchase Order placed: 3-4 Weeks:

- Final Engineering Post-analysis sizing for cables and poles. Includes reaction forces. PRICING AND SIZING ARE SUBJECT TO CHANGE UNTIL FINAL ENGINEERING IS COMPLETED!
- Final Quote Pricing for everything Structura will provide based on Final Engineering.
- Approval Drawings Layout, pole, and/or luminaire drawings that must be approved and reviewed prior to release.

After Approval Drawings are returned and deposit (50% of order) is received:

- <1 Week:
- Production Structura can begin
- production for all ordered materials. Cables – 2-4 Weeks
- Luminaires 8-10 Weeks
- Poles 10+ Weeks (Depends on size, quantity, shop capacity, etc.)

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Volta Ring - Direct Lighting

	Standard	Output	Medium	Output	High O	utput		
Dia.	Lumens ⁽²⁾	Watts	Lumens ⁽²⁾	Watts	Lumens ⁽²⁾	Watts	Weight ⁽³⁾	EPA ⁽³⁾
2'	627	9	1139	18	1593	29	16lbs.	.69ft ²
4′	1299	18	2360	36	3301	60	32lbs,	1.24ft ²
6'	1980	28	3597	55	5032	91	49lbs.	1.81ft ²
8'	2671	37	4851	74	6787	123	64lbs.	2.36ft ²

NOTE: CONSULT MANUFACTURER'S DESIGN SPECIALISTS AND INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

5 5 р ц G ÷ _ Date By **Revision Notes** lo. Date Issue Notes Design Firm Name

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PLEASE NOTE: THIS SHEET IS SCALED FOR 22 BY 34 PAPER, DO NOT REDUCE OR ENLARGE.

LANDSCAPE DETAILS ONE CONGRESS STREET Project Manager AS NOTED TP L-04 10/18/2022 _____ of _____ GRESS101422 9

Design Firm Address

ONE CONGRESS STREET

4

L-5

HAVEN COURT STEP DETAIL SCALE: 1/4"=1'-0"

- OF WATER AND SEWER SERVICES. 11) ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND

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AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors G 200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 RID Fax (603) 436-2315 NOTES: 1) PARCELS ARE SHOWN ON THE CITY OF PORTSMOUTH ASSESSORS MAP 117 AS LOTS 14 AND 15. 2) OWNER OF RECORD: ONE MARKET SQUARE, LLC 3 PLEASANT STREET, SUITE 400 PORTSMOUTH, NH 03801 6363/31 PARCEL 1 & PARCEL 2 3) THE PURPOSE OF THIS PLAN IS TO SHOW THE PARKING FOR THE PROPOSED SITE DEVELOPMENT ON ASSESSORS MAP 117 AS LOTS 14 AND 15. IN THE CITY OF PORTSMOUTH. 4) REQUIRED PARKING: PROPOSED USE: RETAIL, OFFICE, RESIDENTIAL. FIRST FLOOR: EXEMPT FROM REQUIREMENT. 2ND FLOOR: OFFICE- NOT REQUIRED. UPPER FLOORS: 18 RESIDENTIAL UNITS REQUIRED PARKING: 27 (SEE TABLE). DOD CREDIT: <4> TOTAL REQUIRED: 23 PROVIDED: 23 HANDICAP ACCESS AISLE NO PARKING COMMERCIAL K-4438 12" x 18" SIGN ON POST DEVELOPMENT SIGNAGE ONE CONGRESS STREET PORTSMOUTH, N.H. -handicap access aisle `NO PARKING SIGN -----NOTES: 10/18/22 BUILDING FOOTPRINT 1) SYMBOL TO BE PAINTED IN ALL 9/6/22 ISSUED FOR COMMENT HANDICAPPED SPACES. DESCRIPTION DATE NO. 2) SYMBOL, PAINT AND SIGNAGE TO CONFORM TO REVISIONS AMERICANS WITH DISABILITIES ACT (ADA). 3) ALL VAN ACCESSIBLE SPACES SHALL HAVE "VAN ACCESSIBLE" PLATE INSTALLED ON SIGN POST JOH BELOW HANDICAP SIGN. CHAGNON No. 7651 SEPTEMBER 2022 SCALE 1'' = 10'PARKING LEVEL C6 PLAN FB 309 PG 15 3406

CLEANOUT

UTILITY NOTES:

1) SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.

2) COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY.

3) SEE GRADING AND DRAINAGE PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.

4) ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, POLYWRAPPED, CEMENT LINED DUCTILE IRON PIPE. 5) ALL WATERMAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION AND BEFORE ACTIVATING THE SYSTEM. CONTRACTOR

SHALL COORDINATE WITH THE CITY OF PORTSMOUTH.

6) ALL SEWER PIPE SHALL BE PVC SDR 35 UNLESS OTHERWISE STATED.

7) ALL WORK WITHIN CITY R.O.W. SHALL BE COORDINATED WITH CITY OF PORTSMOUTH

HAVEN COURT

8) CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ABUTTING PROPERTIES THROUGHOUT CONSTRUCTION.

9) ANY CONNECTION TO EXISTING WATERMAIN SHALL BE CONSTRUCTED BY THE CITY OF PORTSMOUTH.

10) EXISTING UTILITIES TO BE REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES. 11) ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL

PROPOSED 2" HIGH PRESSURE GAS SERVICE

CODES. 12) THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH BUILDING DRAWINGS AND UTILITY COMPANIES.

13) ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE. 14) ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.

15) THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATED TO THE OWNER PRIOR TO THE COMPLETION OF PROJECT.

16) THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED IN THESE DRAWING TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL. 17) CONTRACTOR SHALL PROVIDE EXCAVATION, BEDDING, BACKFILL AND COMPACTION FOR NATURAL GAS SERVICES.

18) A 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS WATER ABOVE SEWER. 19) SAWCUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.

20) GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE CITY OF PORTSMOUTH.

21) COORDINATE TESTING OF SEWER CONSTRUCTION WITH THE CITY OF PORTSMOUTH.

22) ALL SEWER PIPES WITH LESS THAN 6' COVER SHALL BE INSULATED.

23) CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY. 24) CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION, PARTICULARLY WATER MAIN AND GAS MAIN CONSTRUCTION AS TO MAINTAIN CONTINUOUS SERVICE TO ABUTTING PROPERTIES. CONTRACTOR SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH UTILITY COMPANY AND AFFECTED ABUTTER.

> APPROXIMATE BUILDING LOCATION -

LINE OF BRICK BUILDING ABOVE

PROPOSED

& METERS

GAS REGULATOR

PARKING GARAGE

ABANDONED CONDUITS (NO OHW)

 $\mathbf{D2}$

GRAPHIC SCALE

EROSION CONTROL NOTES

CONSTRUCTION SEQUENCE

DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.

IF REQUIRED THE CONTRACTOR SHALL OBTAIN AN NPDES PHASE II STORMWATER PERMIT AND SUBMIT A NOTICE OF INTENT (N.O.I) BEFORE BEGINNING CONSTRUCTION AND SHALL HAVE ON SITE A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) AVAILABLE FOR INSPECTION BY THE PERMITTING AUTHORITY DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE S.W.P.P.P. AND INSPECTING AND MAINTAINING ALL BMP'S CALLED FOR BY THE PLAN. THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (N.O.T.) FORM TO THE REGIONAL EPA OFFICE WITHIN 30 DAYS OF FINAL STABILIZATION OF THE ENTIRE SITE OR TURNING OVER CONTROL OF THE SITE TO ANOTHER OPERATOR.

INSTALL PERIMETER CONTROLS, i.e., SILTSOXX AND CATCH BASIN PROTECTION AROUND THE LIMITS OF DISTURBANCE BEFORE ANY EARTH MOVING OPERATIONS. THE USE OF HAYBALES IS NOT ALLOWED.

PLACE FODS AS NEEDED.

CUT AND GRUB ALL TREES, SHRUBS, SAPLINGS, BRUSH, VINES AND REMOVE OTHER DEBRIS AND RUBBISH AS REQUIRED. DEMOLISH BUILDINGS AND FENCES AS NEEDED. REMOVE WALL AND STORE.

ROUGH GRADE SITE.

LAYOUT AND INSTALL ALL BURIED UTILITIES AND SERVICES UP TO 10' OF THE PROPOSED BUILDING FOUNDATIONS. CAP AND MARK TERMINATIONS OR LOG SWING TIES.

CONSTRUCT BUILDING.

CONNECT UTILITIES.

PLACE BINDER LAYER OF PAVEMENT FOR SIDEWALKS.

PLANT LANDSCAPING IN AREAS OUT OF WAY OF BUILDING CONSTRUCTION. PREPARE AND STABILIZE FINAL SITE GRADING BY ADDING TOPSOIL, SEED, MULCH AND FERTILIZER.

AFTER BUILDINGS ARE COMPLETED, FINISH ALL REMAINING LANDSCAPED WORK.

CONSTRUCT SIDEWALKS.

REMOVE TRAPPED SEDIMENTS FROM COLLECTION DEVICES AS APPROPRIATE, AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF FINAL STABILIZATION OF THE SITE.

GENERAL CONSTRUCTION NOTES

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE". THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR MORE THAN 45 DAYS

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

SILT FENCES AND SILTSOXX SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. ALL DAMAGED SILT FENCES AND SILTSOXX SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS

ADDITIONAL TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS--CONSTRUCT SILT FENCE OR SILTSOXX AROUND TOPSOIL STOCKPILE.

AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL. STUMPS SHALL BE DISPOSED OF IN AN APPROVED FACILITY.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT. SUBSIDENCE OR OTHER RELATED PROBLEMS.

ALL NON-STRUCTURAL, SITE-FILL SHALL BE PLACED AND COMPACTED TO 90% MODIFIED PROCTOR DENSITY IN LAYERS NOT EXCEEDING 18 INCHES IN THICKNESS UNLESS OTHERWISE NOTED.

FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL, TRASH, WOODY DEBRIS. LEAVES, BRUSH OR ANY DELETERIOUS MATTER SHALL NOT BE INCORPORATED INTO FILLS.

FILL MATERIAL SHALL NOT BE PLACED ON FROZEN FOUNDATION SUBGRADE.

DURING CONSTRUCTION AND UNTIL ALL DEVELOPED AREAS ARE FULLY STABILIZED, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH ONE HALF INCH OF RAINFALL.

THE CONTRACTOR SHALL MODIFY OR ADD EROSION CONTROL MEASURES AS NECESSARY TO ACCOMMODATE PROJECT CONSTRUCTION.

ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: - BASE COURSE GRAVELS HAVE BEEN INSTALLED ON AREAS TO BE PAVED
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED - EROSION CONTROL BLANKETS HAVE BEEN INSTALLED

VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER	PROPORTIO	<u>DN</u> <u>SEEDING RATE</u>
CREEPING RED FESCUE KENTUCKY BLUEGRASS	50% 50%	100 LBS/ACRE
SLOPE SEED (USED ON AL	L SLOPES	GREATER THAN OR EQUA

CREEPING RED FESCUE	42%		
TALL FESCUE	42%	48 LBS/ACRE	
BIRDSFOOT TREFOIL	16%		

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PROTECTION OF DISTURBED AREAS: MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:

PERENNIAL RYE: 0.7 LBS/1,000 S.F. MULCH: 1.5 TONS/ACRE

MAINTENANCE AND PROTECTION

THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.

TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT.

SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.

THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.

THE SILT FENCE OR SILTSOXX BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL

SILT FENCING AND SILTSOXX SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE AND SILTSOXX REMOVAL SHALL BE PERMANENTLY SEEDED

WINTER NOTES

ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

NOTE: THAT HIGH STREET SHALL BE SWEEPED DAILY DURING THE EXCAVATION PHASE OF THE BUILDING CONSTRUCTION.

 FB	309	PG	15

NTS

AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315

NOTES

1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN FNGINFFR.

3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

4) HIGH AND LADD STREETS SHALL BE SWEEPED DAILY DURING EXCAVATION PHASE OF THE BUILDING CONSTRUCTION.

COMMERCIAL DEVELOPMENT PORTSMOUTH, N.H.

1	DETAIL C	10/18/22
C	ISSUED FOR COMMENT	9/6/22
0.	DESCRIPTION	DATE

SCALE: AS SHOWN

SEPTEMBER 2022

3406

CONCRETE BLOCKS

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AMBIT ENGINEERING, INC.

Civil Engineers & Land Surveyors

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COMMERCIAL DEVELOPMENT ONE CONGRESS STREET PORTSMOUTH, N.H.

ISSUED FOR COMMENT 9/6/22 DESCRIPTION DATE REVISIONS

SCALE: AS SHOWN

SEPTEMBER 2022

DETAILS

D2

FB 309 PG 15

3406












AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

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COMMERCIAL DEVELOPMENT ONE CONGRESS STREET PORTSMOUTH, N.H.

1	DETAIL M	10/18/22
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NO.	DESCRIPTION	DATE
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SCALE: AS SHOWN

AUGUST 2022

DETAILS

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		FOR P	IPE INST	ALLATION	N IN RO	CK		
		U	P TO 150 P.S	I. WORKING P	RESSURE		1	T
	PIPE SIZE	TEE OR TAP SLEEVE	90* BEND	45⁺ BEND	22 1/2 [•] BEND	11 1/4 [•] BEND		PIPE SIZE
*	0.22	H L	H L	HL	H L	H L		4"
T	4"	0'-9" 1'-0"	0'-9" 1'-0"	0'-9" 1'-0"	0'-9" 1'-0"	0'-9" 1'-0"		6"
	6"	0'-9" 1'-0"	0'-9" 1'-0"	0'-9" 1'-0"	0'-9" 1'-0"	0'-9" 1'-0"		8"
	8"	1'-2" 1'-2"	1'-2" 1'-2"	1'-0" 1'-0"	0'-9" 1'-0"	0'-9" 1'-0"	1	10"
	10"	1'-4" 1'-4"	1'-4" 1'-4"	1'-0" 1'-0"	0'-9" 1'-0"	0'-9" 1'-0'		12"
	12"	1'-8" 1'-8"	1'-8" 1'-8"	1'-3" 1'-3"	1'-0" 1'-0"	0'-9" 1'-0"	1	
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	6	1 - 0 2 - 0	$1 - 0^{\circ} 2 - 0^{\circ}$	$1 - 0^{-1} - 4^{-1}$	0 - 9 1' - 0''	$0^{\circ}-6^{\circ}$ $1^{\circ}-0^{\circ}$	I	
	8	1 - 4 2 - 8	$1^{-4^{-2}}$ $2^{-8^{-2}}$	$1^{-4^{"}} 1^{-6^{"}}$	$1^{\circ}-0^{\circ}$ $1^{\circ}-0^{\circ}$	0'-9'' 1'-0''		
	10	1 - 8 3 - 4	$1^{-8^{-3}}$ $3^{-4^{-3}}$	$1^{\circ}-8^{\circ}2^{\circ}-0^{\circ}$	$1^{\circ}-3^{\circ}$ $1^{\circ}-3^{\circ}$	$1^{-0^{\prime\prime}}$ $1^{-0^{\prime\prime}}$	Ι.	
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Ś	SUCH A	PRESSURE,	THE TABLE DO	ES NOT APPLY	•			
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b	С	DIA.	a	b	с	ROD	
-3"	1'-6"	3/4"	2'-0"	2'-0"	1'-6"	DIA.	
-3"	1'-6"	3/4"	2'-0"	2'-0"	1'-6"	3/4"	
-0"	1'-9"	3/4"	2'-6"	2'-6"	1'-3"	3/4"	
-3"	2'-0"	3/4"	2'-9"	2'-9"	1'-6"	3/4"	
0"	2' 6"	3/4"	z' z"	Z' Z"	1' 0"	Z / A"	



FB 309 PG 15





AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315

NOTES:

1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

COMMERCIAL DEVELOPMENT ONE CONGRESS STREET PORTSMOUTH, N.H.

		1.
1	ISSUED FOR APPROVAL	10/18/22
0	ISSUED FOR COMMENT	9/6/22
NO.	DESCRIPTION	DATE
	REVISIONS	



SCALE: AS SHOWN

AUGUST 2022

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DETAILS

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100% PASSING	1 INCH SCREEN
0%-100% PASSING	3/4 INCH SCREEN
20%- 55% PASSING	3/8 INCH SCREEN
0%- 10% PASSING	#4 SIEVE
0%- 5% PASSING	#8 SIEVE

ASTM STANDARDS	GENERIC PIPE MATERIAL	SIZES APPROVED	
D3034 F679 F794 AWWA C900	*PVC (SOLID WALL) PVC (SOLID WALL) PVC (RIBBED WALL) PVC (SOLID WALL)	8" THROUGH 15 18" THROUGH 27 8" THROUGH 36 8" THROUGH 18	,")" 3"
*PVC:	POLYVINYL CHLORIDE		

2. JOINT SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212 AND SHALL BE PUSH-ON

4) JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR AT THE FOUNDATION WALL, APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED.

5) HOUSE SEWER INSTALLATION: THE PIPE SHALL BE HANDLED, PLACED AND JOINTED IN ACCORDANCE WITH INSTALLATION GUIDES OF THE APPROPRIATE MANUFACTURER. IT SHALL BE CAREFULLY BEDDED ON A 4 INCH LAYER OF CRUSHED STONE AND/OR GRAVEL AS SPECIFIED IN NOTE 10. BEDDING AND REFILL FOR DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY AND THOROUGHLY TAMPED BY HAND OR WITH APPROPRIATE MECHANICAL DEVICES.

6) THE PIPE SHALL BE LAID AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEWER CONNECTION TO THE FOUNDATION AT A GRADE OF NOT LESS THAN 1/4 INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DEWATER THE TRENCH.

7) TESTING: WHEN REQUIRED BY THE GOVERNING AUTHORITY, TESTING SHALL CONFORM TO ENV-WQ 704.09.

8) ILLEGAL CONNECTIONS: NOTHING BUT SANITARY WASTE FLOW FROM HOUSE TOILETS, SINKS, LAUNDRY ETC. SHALL BE PÉRMITTED. ROOF LEADERS, FOOTING DRAINS, SUMP PUMPS OR OTHER SIMILAR CONNECTIONS CARRYING RAIN WATER,

9) HOUSE WATER SERVICE SHALL NOT BE LAID IN SAME TRENCH AS SEWER SERVICE, UNLESS IT IS ON A SHELF 12"

10) BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE, FREE FROM CLAY, LOAM, ORGANIC MATTER AND

100%	PASSING	1 INCH SCREEN
90%-100%	PASSING	3/4 INCH SCREEN
20%- 55%	PASSING	3/8 INCH SCREEN
0%- 10%	PASSING	#4 SIEVE
0%– 5%	PASSING	#8 SIEVE

11) LOCATION: THE LOCATION OF THE TEE OR WYE SHALL BE RECORDED AND FILED IN THE MUNICIPAL RECORDS. IN ADDITION, A FERROUS METAL ROD OR PIPE SHALL BE PLACED OVER THE TEE OR WYE AS DESCRIBED IN THE TYPICAL

12) CAST-IN-PLACE CONCRETE: SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 PSI) CONCRETE OF THE

13) BACKFILL UP TO SUBBASE GRAVEL SHALL BE WITH EXCAVATED SOIL FROM TRENCHING OPERATIONS. COMPACT IN 8" LIFTS WITH VIBRATORY PLATE COMPACTORS TO 90% OF MODIFIED PROCTOR DENSITY. IF FINE-GRAINED, COMPACT WITH POGO STICKS OR SHEEPSFOOT ROLLERS. PLACE NO LARGE ROCKS WITHIN 24" OF PIPE, TRENCHES THAT ARE NOT ADEQUATELY COMPACTED SHALL BE RE-EXCAVATED AND BACKFILLED UNDER THE SUPERVISION OF THE DESIGN ENGINEER OR GOVERNING BODY. UNSUITABLE BACKFILL MATERIAL INCLUDES CHUNKS OF PAVEMENT, TOPSOIL, ROCKS OVER 6" IN SIZE, MUCK, PEAT OR

14) THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB-SITE SAFETY AND COMPLIANCE WITH GOVERNING REGULATIONS. 15) ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE. REFILL WITH BEDDING MATERIAL. FOR TRENCH WIDTH

16) SAND BLANKET: CLEAN SAND, FREE FROM ORGANIC MATTER, SO GRADED THAT 90% - 100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A #200 SIEVE. BLANKET MAY BE OMITTED FOR DUCTILE IRON AND REINFORCED CONCRETE PIPE PROVIDED THAT NO STONE LARGER THAN 2 INCHES IS IN CONTACT WITH THE PIPE.

17) BASE COURSE GRAVEL, IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

18) IF FULL ENCASEMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MIN.) BLOCK SUPPORT

19) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO

20) THE PURPOSE OF THIS PLAN IS TO SHOW STANDARDS FOR SEWER CONSTRUCTION.

21) ALL WORK SHALL BE IN COMPLIANCE WITH NHDES CODE OF ADMINISTRATIVE RULES PART ENV-WQ 704 DESIGN OF

(SDR 35) (T-1 & T-2)





AMBIT ENGINEERING, INC. **Civil Engineers & Land Surveyors**

200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315

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COMMERCIAL DEVELOPMENT ONE CONGRESS STREET PORTSMOUTH, N.H.

(SEE NOTE





SCALE: AS SHOWN

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AUGUST 2022



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AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS

200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

17 November 2022

Peter Stith, Technical Advisory Committee Chair City of Portsmouth 1 Junkins Avenue Portsmouth, NH 03801

RE: Lot Line Relocation Application at 184 Walker Bungalow Road and 27 Shaw Road, Tax Map 223 / Lots 18 and 19

Dear Mr. Stith:

On behalf of Brian Neste, Brady Byrd, and Austin Repair and Renovation, LLC we hereby submit the attached and enclosed Lot Line Relocation Plan for a proposed minor revision to the property line between **184 Walker Bungalow Road and 27 Shaw Road**. The project consists of the transfer of 3,834 Square feet of land from Tax Map 223 Lot 18 to Tax Map 223 Lot 19. No new construction is contemplated at this time; but construction will occur in the future. We hereby request that we be placed on the Agenda for **Technical Advisory Committee Review** at the **TAC Meeting of December 6, 2022**.

The proposed change does not result in any dimensional deficiencies in the revised parcels, while making one of the parcels more conforming as it will now meet the lot area requirement. The Shaw Road parcel, Tax Map 223 Lot 18, was recently subdivided, and the plan recorded at RCRD D-43498. The approved subdivision plan created a drainage easement on the parcel; shown on the lot line relocation plan submitted herewith. In the future lot development, there is planned to be a drainage pond constructed partially on the area of the 27 Shaw Road parcel that is intended to be conveyed to 184 Walker Bungalow Road. In order to preserve the future right of the 27 Shaw Road (or other) property owner to construct the drainage feature the attached Lot Line Relocation plan shows the area as a *Future Drainage Pond*. That area of the conveyed property will be conveyed subject to a deed reservation for that purpose. In accordance with the city approval requirements TAC review of the proposed easement is required. We hereby submit for that purpose.

We look forward to the TAC review of this submission. If there are any questions or comments, please feel free to reach out to me. We look forward to an in-person presentation at the December TAC Meeting.

Sincerely,

John R. Chagnon

John R. Chagnon, PE CC: Project Team





	AMBIT ENGINEERING, Civil Engineers & Land Surve, 200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315	INC. ^{yors}
NAD83(2C	NOTES: 1) PARCELS ARE SHOWN ON THE CITY OF PORTSM ASSESSOR'S MAP 223 AS LOTS 18 & 19	OUTH
GRID MHSPC	2) OWNERS OF RECORD: <u>LOT 18</u> AUSTIN REPAIR AND RENOVATION LLC 4609 RIDGE OAK DRIVE AUSTIN, TX 78731 6349/2486	
	<u>LOT 19</u> BRIAN L. NESTE & BRADY J. BYRD 184 WALKER BUNGALOW ROAD PORTSMOUTH, NH 03801 3960/629	
	3) PARCEL IS NOT IN A FLOOD HAZARD ZONE AS ON FIRM PANEL 33015C0286F. EFFECTIVE DATE JAN 29, 2021.	SHOWN UARY
	4) EXISTING LOT AREAS: <u>LOT 18</u> 34,205 S.F. 14,489 S.F. 0.7852 ACRES 0.3326 ACRES	
	PROPOSED LOT AREAS: LOT 19 30,370 S.F. 18,323 S.F. 0.6972 ACRES 0.4206 ACRES	
	5) PARCEL IS LOCATED IN THE SINGLE RESIDENCE (SRB) ZONING DISTRICT.	В
/ N/F BRYANT S. BEACH & LISA M. BEACH / 201 WALKER BUNGALOW ROAD DODTSMOUTH NH 03801	6) DIMENSIONAL REQUIREMENTS: MIN. LOT AREA: 15,000 SQ.FT. MIN. FRONTAGE: 100 FEET MIN. DEPTH: 100 FEET SETBACKS: FRONT 30 FEET SIDE 10 FEET REAR 30 FEET	
4017/517	MAXIMUM BUILDING HEIGHT: SLOPED ROOF 35 FLAT ROOF 30 MAXIMUM STRUCTURE COVERAGE: 20%	FEET) FEET
NAIL SET NAIL SET NAIL SET NAIL	7) THE PURPOSE OF THIS PLAN IS TO SHOW A PE LOT LINE RELOCATION BETWEEN LOTS 18 AND 19 O ASSESSOR'S MAP 223	ROPOSED N
	8) PER THE CITY OF PORTSMOUTH LEGAL DEPARTME MEMORANDUM DATED APRIL 30, 2021 SHAW ROAD IS PUBLIC WAY ESTABLISHED BY PRESCRIPTION.	INT S A
PSNH 113/4	9) THE AREA TO BE CONVEYED IS SUBJECT TO A RESERVATION FOR USE AS A DRAINAGE POND.	
	2 NOTES 8–10 11	/17/22
	OISSUED FOR COMMENT4	/22/22
	NO. DESCRIPTION REVISIONS	DATE
	LOT LINE RELOCATION PL	AN
	TAX MAP 223 LOTS 18 &	19
	RENOVATION LLC	
	AND RRIAN I NIFSTF &	
ΓΙΕΝΩΤΗ ΤΔΡΙΕΙ	BRADY J. BYRD	
	27 SHAW ROAD &	
2/36 E 26.00'	184 WALKER BUNGALOW ROA	٩D
D BEARING DELTA ANGLE 1'49"E 43°33'01"	COUNTY OF ROCKINGHAM STATE OF NEW HAMPSHIRE SCALE: 1"=20'	н 2022
	EB 220 PC 74	1802

AMBIT ENGINEERING, INC.

CIVIL ENGINEERS AND LAND SURVEYORS

200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

22 November 2022

Rick Chellman, Planning Board Chair City of Portsmouth 1 Junkins Avenue Portsmouth, NH 03801

RE: Application for Parking CUP Approval, Tax Map 127, Lots 11 & 12, 132-134 Middle Street

Dear Chair Chellman and Planning Board members:

On behalf of Torrington Properties, we herewith submit a **Parking Conditional Use Permit** application for approval at the above-mentioned site. Please find the attached informational package in support thereof.

Currently the combined property has a three-story building with 20 residential units and one commercial unit. The proposed plan is to convert the commercial unit of the 134 Middle Street building to a residential unit. Although the prior commercial use creates a higher parking demand, the change of use triggers the need for a Parking CUP under the Portsmouth Ordinance.

Thank you for your time and attention to this proposal.

Sincerely,

John R. Chagnon

John R. Chagnon, PE CC: 132-134 Middle Street Team

AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS

200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

22 November, 2022

Proposed Parking Demand Building Remodeling 132-134 Middle Street Portsmouth, NH

The purpose of this calculation is to identify the proposed parking demand under the Portsmouth Ordinance generated by the building remodeling at 132-134 Middle Street. Currently the combined property has a three-story building with 20 residential and one commercial units. The proposed plan is to convert the commercial unit of the 134 Middle Street building to a residential unit. Although the prior commercial use creates a higher parking demand, the change of use triggers the need for a Parking CUP under the Portsmouth Ordinance.

In developing the expected parking demand Ambit Engineering considered the standard rates as outlined in the City of Portsmouth Zoning Ordinance under Section 10.1112.31 *Parking Requirements for Residential Uses*. Also, this application will look at demand based on ITE industry data, as a back-up. The parking demand, based upon the number size of the dwelling units in the buildings are summarized below:

Parking	Demand	Portsmouth	Ordinance
I unking	Domana	1 of tofflouth	Orumanee

Unit Size	Parking Spaces Required	# of units	Parking Spaces Required
< 500 SF	0.5 per unit	17	8.5
500 to 750 SF	1 per unit	4	4
Over 750 SF	1.3 per unit	0	0
Visitor	0.2 per unit	21	4.2
	-		

Total required:

17 Spaces

Based on the calculation there is an anticipated requirement for 17 parked vehicles with this project. U.S. Census Bureau information on means of travel for residence of Portsmouth shows that approximately 7.7 percent of Portsmouth residents travel to work via walking or biking and 1.4 percent of Portsmouth residents utilize public transit services to travel to/from work. We can assume that some of this population may not have, or need to have, a vehicle. Based on this data a reduction of 9 % in parking demand could be expected, thus reducing the actual demand to 14 vehicles.

Parking Demand ITE

In developing the expected Parking Demand Ambit Engineering considered the standard Parking Demand rates and equations published in the Institute of Transportation Engineers (ITE) Parking Generation Manual, 5th Edition. The land use category that best correlates with the proposed use is Multifamily Housing (Low Rise) (ITE Land Use Code 220). Please note that the ITE Rates are for peak periods of demand; the residential being 10:00 PM to 6:00 AM time period, where surrounding available parking is at its peak availability. The parking demand, based upon the number of dwelling units in the building is summarized below for the **Average Peak Period of Parking Demand**:

Parking Demand Summary - PROPOSED

Peak Period of Demand	
Multifamily Housing (Low Rise) (1.21 / unit)	1.21 x 21 units = 25 vehicles
Total Parking Spaces required	25 vehicles

The attached site plan shows that the site is set up to support seven vehicles in off-street parking locations, leaving the site 7-10 / 18 spaces short of meeting the Portsmouth Ordinance / ITE Calculations. As allowed in the Ordinance the applicant can seek permission, in an application to the Planning Board for a Conditional Use Permit, for the amount of provided parking for a proposed use to be less than the ordinance requirement. This letter is in support of such an application.

The applicant is making a minor revision; the conversion of a small section of the building to residential use, increasing the unit count by one unit. This is a minor addition to an existing situation. While the relief seems large, it is actually quite small in that the conversion creates the need for only one additional space, per the Ordinance, and it could be argued that an intensive commercial re-use may require more parking. Also, give the desire for affordable residential apartments in the City's urban core, granting the relief will serve the purpose of allowing one more apartment in the city's urban core.

The applicant believes that the provided parking is sufficient for the proposed use. Efforts will be undertaken to increase the available parking in nearby locations by requesting shared uses with abutting business parking lots or possibly providing residents with passes to park in the Foundry Place garage.

We submit that the application conforms to the Portsmouth Ordinance Sections, repeated below with comments in **bold** text, as follows:

<u>Section 10.1112.141</u>: An application for a conditional use permit under this section shall include a parking demand analysis demonstrating that the proposed number of off-street parking spaces is sufficient for the proposed use. **The Parking Space Calculations** (**Demand Analysis**) on the attached Site plan show that the parking demand at the property is being decreased with the conversion of the commercial space to a residential unit. The actual increase in demand, under the Portsmouth Ordinance, is one parking space; though there will be a reduction in supplied parking due to the need to eliminate one non-conforming parking space located in the front setback in violation of the ordinance. This minor increase in demand is de minimis.

<u>Section 10.1112.142</u>: An application for a conditional use permit under this section shall identify permanent evidence-based measures to reduce parking demand, including but not limited to provision of rideshare/micro transit services or bike share station(s) servicing the property, proximity to public transit, car/van-pool incentives, alternative transit subsidies, provisions for teleworking, and shared parking on a separate lot subject to the requirements of 10.1112.62. The location of the proposed dwelling unit, in close proximity to public transportation and urban core amenities, with current work at home available infrastructure, complies with this section.

<u>Section 10.1112.143</u>: The Planning Board may grant a conditional use permit only if it finds that the number of off-street parking spaces required or allowed by the permit will be adequate and appropriate for the proposed use of the property. In making this determination, the Board may accept, modify or reject the findings of the applicant's parking demand analysis. Since the existing parking supply is currently sufficient for the existing residential use, and the conversion of the commercial unit to residential use only adds one unit, we submit that the available parking is adequate for this conversion.

<u>Section 10.1112.144</u>: At its discretion, the Planning Board may require more off-street parking spaces than the minimum number requested by the applicant or may allow fewer spaces than the maximum number requested by the applicant. **The application requests approval as presented; the maximum available given the existing site configuration.**

The proposed conversion to add one residential dwelling unit will result in a decreased Portsmouth ordinance demand for parking over the current building use and configuration. For the reasons stated above, the Parking CUP application should be granted. Denial would be in contrast to the Portsmouth Master Plan, since the use revision creates additional housing in the urban core, a stated goal. Therefore, we ask that the Planning Board grant the Parking Conditional Use Permit finding that the available parking conforms to the intent of the ordinance provisions. Please feel free to call if you have any questions or comments.

Sincerely,

John R. Chagnon

John R. Chagnon, Project Manager Ambit Engineering, Inc. 603-430-9282

Land Use: 220 Multifamily Housing (Low-Rise)

Description

Low-rise multifamily housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and with one or two levels (floors) of residence. Multifamily housing (mid-rise) (Land Use 221), multifamily housing (high-rise) (Land Use 222), and affordable housing (Land Use 223) are related land uses.

Time of Day Distribution for Parking Demand

The following table presents a time-of-day distribution of parking demand (1) on a weekday (10 study sites) and a Saturday (11 study sites) in a general urban/suburban setting and (2) on a weekday (three study sites) and a Saturday (three study sites) in a dense multi-use urban setting.

	Percent of Peak Parking Demand				
	General Urb	an/Suburban	Dense Multi-Use Urban		
Hour Beginning	Weekday	Saturday	Weekday	Saturday	
12:00–4:00 a.m.	100	93	86	100	
5:00 a.m.	97	100	100	94	
6:00 a.m.	90	98	94	91	
7:00 a.m.	77	96	81	85	
8:00 a.m.	56	92	58	79	
9:00 a.m.	45	80	56	76	
10:00 a.m.	40	78	53	71	
11:00 a.m.	37	71	58	74	
12:00 p.m.	36	68	56	68	
1:00 p.m.	36	66	53	68	
2:00 p.m.	37	65	47	68	
3:00 p.m.	43	68	56	56	
4:00 p.m.	45	70	53	59	
5:00 p.m.	55	73	61	53	
6:00 p.m.	66	77	81	50	
7:00 p.m.	73	81	67	56	
8:00 p.m.	77	82	61	65	
9:00 p.m.	86	86	64	74	
10:00 p.m.	92	87	75	85	
11:00 p.m.	97	92	86	91	

Multifamily Housing (Low-Rise) (220)

Peak Period Parking Demand vs: Dwelling Units

On a: Weekday (Monday - Friday)

Setting/Location: General Urban/Suburban (no nearby rail transit)

Peak Period of Parking Demand: 11:00 p.m. - 6:00 a.m.

Number of Studies: 119

Avg. Num. of Dwelling Units: 156

Peak Period Parking Demand per Dwelling Unit

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
1.21	0.58 - 2.50	1.03 / 1.52	1.16 - 1.26	0.27(22%)

Data Plot and Equation



AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS

200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

22 November, 2022

Trip Generation Proposed Renovations – Conversion of Commercial Space to Housing 132 – 134 Middle Street Portsmouth, NH

On behalf of Torrington Properties, we hereby submit this Trip Generation in support of the applicant's filing with the Portsmouth Planning Board for a Conditional Use Permit as allowed in the Portsmouth Zoning Ordinance. The Conditional Use Permit seeks to provide 7 parking spaces (some stacked) where 17 are required. The project involves the conversion of a commercial unit to a residential unit in an existing structure at 132-134 Middle Street. The site is actually two abutting properties, however the building, which straddles the property line, is one building, therefore we are treating the request in this application as a single request. The structure is currently 20 dwelling units and 1 commercial unit. The proposed use will be 21 residential units. The applicant seeks to perform this work in accordance with the requirements of the City; hence this application for a Conditional Use Permit submitted herewith based on the revised use.

The base trip generation for the proposed 21-unit building is based on a review of the Institute of Transportation Engineers (ITE), *Trip Generation* Manual, 10th Edition. The land use code (LUC) that best resembles the proposed use is LUC 220 –Apartment. Using that description, the proposed use the site generates the following peak hour trips:

Weekday Trip Ends: 139 Trips (50% entering; 50% exiting) Weekday Morning Peak Hour: 11 Trips (16% entering; 84% exiting) Weekday Evening Peak Hour: 13 Trips (67% entering; 33% exiting) Saturday Trips: 134 Trips (50% entering; 50% exiting)

The location of the building, adjacent to the downtown Portsmouth, allows the residents to be within easy walking distance to jobs and amenities. The location of the building, near public transportation, also allows residents access to the wider transportation network. The expectation is that actual trip generation (and parking demand) would therefore be reduced due to the resident's use of bicycles, walking, and available transit.

U.S. Census Bureau information on means of travel for residents of Portsmouth shows that approximately 7.7 percent of Portsmouth residents travel to work via walking or biking and 1.4 percent of Portsmouth residents utilize public transit services to travel to/from work. Based on this data a reduction of 9 % in trip generation could be expected.

The applicant has added two locations for bicycle parking, which is a suitable transportation mode given the urban location of the site. There is a COAST bus stop in close proximity to the site. There is also on-street parking on State Street, accessed via an access easement.

The applicant believes that the added trip generation from the site re-use is not excessive, will not impact the adjacent street networks, and respectfully requests that the Planning Board grant the Conditional Use Permit as submitted.

Please feel free to call if you have any questions or comments about this application.

Sincerely,

John R. Chagnon

John R. Chagnon, PE Ambit Engineering, Inc.



DBS3\JN 3100's\3150's\3155\2022 Permits\Plans & Specs\Site\3155 Site 2022.dwg, 11/21/2022 3:31:25 PM, Canon TX-

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BEDROOM COUNT			
	BEDS		
EXISTING			
ONE BEDROOM	19		
TWO BEDROOM (1)	2		
TOTAL	21		
PROPOSED			
ONE BEDROOM	19		
TWO BEDROOM (1)	2		
THREE BEDROOM (1)	3		
TOTAL	24		



AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors 200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315

NOTES:

1) PARCELS ARE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 127 AS LOTS 11 &12.

- 2) OWNERS OF RECORD: MAP 127 LOT 11 TORRINGTON BROWN LLC SINGLE VENTURE LLC QB SALEM HOLDING LLC 60 K STREET, SUITE 302 BOSTON, MA 6417/1365
 - MAP 127 LOT 12 TORRINGTON BROWN LLC SINGLE VENTURE LLC QB SALEM HOLDING LLC 60 K STREET, SUITE 302 BOSTON, MA 6417/1365

3) THE PURPOSE OF THIS PLAN IS TO SHOW THE SITE CONDITIONS FOR THE PARKING CONDITIONAL USE PERMIT ON MAP 127 LOTS 11 & 12.

4) PARCEL IS LOCATED IN THE CHARACTER DISTRICT 4 -LIMITED (CD4-L1) AND THE HISTORIC DISTRICT.

- 5) EXISTING/PROPOSED USE:
- LOT 11: (134 MIDDLE STREET) EXISTING: 9 RESIDENTIAL & 1 COMMERCIAL UNIT PROPOSED: 10 RESIDENTIAL UNITS LOT AREA: 5,902 S.F.
- LOT 12: (132 MIDDLE STREET) EXISTING: 11 RESIDENTIAL PROPOSED: 11 RESIDENTIAL UNITS LOT AREA: 5,499 S.F.

6) NO CHANGE IN THE BUILDING COVERAGE OR OPEN SPACE IS PROPOSED, EXCEPT THE ELIMINATION OF A NON-CONFORMING PARKING SPACE IN THE FRONT YARD (AS SHOWN).

PROPOSED RENOVATIONS 132 & 134MIDDLE STREET PORTSMOUTH, N.H.





PARKING CONDITIONAL USE PERMIT PLAN

3155

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