# City of Charlottesville Neighborhood Development Services

# Memo

**To:** Planning Commission **From:** Ebony Walden

**Date:** May 30, 2014

Re: Appeal of site plan disapproval for 1000-1002 Grove Street

Property Street Address: 1000-1002 Grove Street
Tax Map/Parcel #: Tax Map 53 Parcels 51 and 52
Total Square Footage/Acreage Site: 12,850 (.29 acres)

Comprehensive Plan (Land Use Plan) Designation: Low Density Residential

**Current Zoning Classification:** Planned Unit Development

#### The Applicant's Request for Approval of a Site Plan

1. Ashley Cooper, acting as agent for Dickerson Homes and Development, the prospective buyer and developer, is requesting an appeal of the decision of the director regarding the disapproval of a preliminary site plan dated April 16, 2014 for a PUD approved in 2006 on property located at 1000 and 1002 Grove Street ("Grove Street PUD"). The appeal has been initiated in accordance with the following provision of the City's site plan regulations:

City Code Sec. 34-823 (d): If the director or the commission disapproves a preliminary or final site plan, such action shall be subject to judicial review as provided within Code of Virginia § 15.2-2260. However, if the developer so chooses, he may first appeal a decision of the director to the planning commission, provided that such appeal is submitted in writing to the director within ten (10) days after the date of the director's disapproval. The commission may affirm, reverse or modify, in whole or in part, the decision of the director.

Attached is a copy of the written determination of the director, denying approval of the site plan. This letter was sent to the applicant on May 20, 2104

#### **Background**

1. October 2006 Original PUD Approval. On October 2, 2006 City Council approved a PUD development plan for the Grove Street PUD, allowing for 6 single family units to be established on approximately .29 acres. The plan included 3 single family units to front on 10<sup>th</sup> Street and a triplex (3 attached units) that would front on King and Grove Streets. The overall density is 20 units per acre, with 12 parking spaces and 16% open space. The open space, referred to as a "garden" was configured in a large, central location, and was offered and intended to function, at least in part, as a component of the stormwater management system for the development ("rain garden"). Proffers included tree preservation, green features (to include green roofs) and one affordable unit. (See attached PUD narrative). A copy of the PUD concept plan is attached and labeled as "Original PUD Documents".

- 2. November 2006 Zoning Ordinance Amendment. In November of 2006, City Council approved an amendment to its PUD ordinance, requiring that every PUD have a minimum of 2 acres. This decision did not affect the Grove Street PUD as it was already approved. As a result of the City's approval of the rezoning which approved the 2006 PUD approval, the property owner has a right to proceed with the PUD as it was specifically approved in 2006.
- 3. <u>September 2009 Preliminary Site Plan Approval.</u> In September 2009, the Planning Commission approved a preliminary site plan for the Grove Street PUD. At that time, one minor deviation from the original PUD development plan was authorized: the three dwelling units previously shown as part of a "triplex" were separated, and re-configured as a single family detached unit fronting on King Street and a duplex unit fronting on Grove Street. The applicant did not submit a final plan for approval.
- 4. <u>2014 Application for Amended PUD/ Site Plan.</u> On April 22<sup>nd</sup> 2014, Dickerson Homes and Development submitted a proposed PUD amendment and site plan application for the Grove Street PUD. (See attached narrative and site plan). At this time, ONLY THE PROPOSED SITE PLAN is before you for consideration. The applicant's representative has stated that the applicant is a "prospective buyer and developer."

Attached is a copy of the letter sent to the applicant on May 15, 2014, informing the applicant that the PUD amendment could not be processed because it did not meet the current 2 acre minimum requirement for a PUD. It was also staff's opinion that the amendment did not qualify for a minor PUD amendment pursuit 34-519 because the proposed revisions involve more than a minor deviation from the development layout and design contemplated within the 2006 PUD development plan—in the director's and staff's opinion, the current application materially alters the character and concept of the approved plan of development.

#### **Staff Analysis of Proposed Changes**

Building Design, Location, Access and Frontage

The originally approved plan included buildings with green roofs. The triplex was originally connected by a series of green roofs. The proposed plan has buildings that are designed and configured differently and have eliminated the green roofs. The triplex is now proposed as a single family unit and a duplex. Unit one of the proposed duplex appears to be a land locked parcel with no street frontage. Land locked parcels are not permitted in the city. It is also unclear of how the parcel will have permanent access to parking.

#### The Site Layout

The original plan has the buildings that front onto 10<sup>th</sup> street aligned with a setback that is close to the street. Except for the unit on King Street, parking was approximately 10' wide and relegated to the side of the homes. There was also a small amount of space between the triplex and the adjacent property. The proposed plan has staggered units on 10<sup>th</sup> Street with almost the entirety of the front yards comprised of parking. Not only is this a change from the previous plan, but it's discouraged in the zoning ordinance (see Sec. Sec. 34-972 (a) 3) and in staff's opinion out of character with the neighborhood. The unit that fronts on Grove has also become very close to the adjacent property, providing little buffer.

#### Open Space

The proposed plan has more open space in a slightly different configuration. More open space is an improvement and it also allows for a decentralized storm water management plan. While this is an improvement, it's another feature that makes the proposed plan different from the approved concept.

#### FYI only—Proffer Amendment Application Pending

The proffer amendment is not before you at this time; however, if the applicant decides to proceed with the proffer amendment following your decision on the Site Plan issues, then the proffer amendment will need to be advertised for a public hearing as a zoning amendment.

The applicant seeks to amend the 2006 proffered development conditions to: (i) amend Proffer #2 to eliminate the promise that each house will be constructed with a green roof, and (ii) amend Proffer #4, to replace its original promise "to make every possible effort to save existing trees shown on the site plan," with a new promise "efforts will be made to save existing trees on site as shown on the proposed sit plan dated April 16, 2014, although the existing retaining walls and topography along the right-of-way may jeopardize the preservation efforts." Other changes include greater specificity in the affordable housing proffer and more detail on which trees can be saved.

#### Staff Recommendation

The director's and staff's opinion is reflected in this report, and in our letter dated May 20, 2014 denying approval of the 2104 proposed site plan. It is staff's recommendation that the Planning Commission should reach the same determinations and conclusions as set forth within the letter dated May 20, 2014 and should deny approval of the site plan. However, if any one or more of the changes shown on the proposed site plan materially alters the character or concept of the approved plan of development, approval of the proposed site plan must be denied, pursuant to the Code sections referenced in staff's letter.

*Note:* If you determine that all of the changes proposed by the applicant are minor deviations from the approved PUD development plan, for purposes of site plan approval, the director may also treat the changes as minor deviations to the PUD development plan itself, for purposes of City Code 34-519 (Administrative amendment of a previously-approved PUD).

#### Options for the Planning Commission (expressed as possible motions):

#### **Possible Motions:**

#### > Denial of Site Plan [Consistent with Staff's Previous Denial]:

"I move to deny approval of the April 22, 2014 site plan application, for the reasons stated in staff's letter to the applicant dated May 20, 2014, because I find that the changes to the site layout, to the building design, location, access and frontage, and the configuration and character of the open space materially alter the character or concept of the approved 2006 PUD development plan."

#### > Denial of Site Plan [But Finding That Only One or more Specific Changes are Material]:

"I move to find that the following changes to the 2006 Grove Street PUD layout/ design, as detailed on the proposed April 22, 2014 site plan, materially alter the character or concept of the 2006 approved PUD development plan, and therefore, pursuant to the City Code sections referenced in staff's letter to the applicant dated May 20, 2014, we deny approval of the proposed site plan:

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' <i>'</i>	 	 	 	 	

2)	 
3)	

- > Reverse Staff's Decision, and Refer the Proposed Site Plan for Review and Action [Based on finding that all changes are minor in nature]—2 steps/ motions:
  - "I move that the Planning Commission make a finding that all of the changes to the 2006 Grove Street PUD layout/ design, as detailed on the proposed April 22, 2014 site plan, involve only minor deviations from the 2006 approved PUD development plan:"
  - "Based on our determination that the April 22, 2014 site plan application proposes only minor deviations to the approved PUD development plan, I move that the proposed site plan be placed on the future agenda of our regularly scheduled meeting for review and action."

#### **Attachments**

May 15, 2014 PUD Denial Letter Mary 20, 2104 Site Plan Denial Letter The Applicant's Narrative Preliminary Original PUD Documents Site Plan

#### CITY OF CHARLOTTESVILLE

"A World Class City"

Neighborhood Development Services 610 East Market Street Charlottesville, VA 22902 Telephone 434-970-3182 Fax 434-970-3359 www.charlottesville.org

May 20, 2014

Ashley Cooper, AICP Cooper Planning 304 7th Street SW Charlottesville, VA 22903

Re: Grove Street PUD - Site Plan Application, dated April 16th, 2014

Dear Ashley,

Pursuant to City Code 34-823, this letter shall serve as the written notice of disapproval of the above-referenced proposed Site Plan. The reasons for this disapproval are as follows:

- 1. Failure to adhere to the PUD plan approved on October, 2, 2006 as required by Sec. 34-518 (a) and (b) of the City Code. The proposed Site Plan includes substantial changes to: the design of the buildings, the location, access and frontage of the duplex unit; to the site layout (staggering units, instead of building units to the lot line; change in location and dimensions of parking); change in the nature and configuration of the central rain garden area; and deviations from the approved proffers applicable to the site.
- 2. Any proposed amended PUD development plan, and any proposed site plan submitted to the City for a PUD development, if it contains substantial changes from the October 2, 2006 PUD approval, must go through a new approval process and must comply with current zoning regulations. This development site contains fewer than 2 acres, and therefore cannot meet the requirements of City Code 34-492.

According to 34-823 (d) of the City Code, if you wish to appeal this decision the following procedure applies:

34-823 (d) If the director or the commission disapproves a preliminary or final site plan, such action shall be subject to judicial review as provided within Code of Virginia  $\int 15.2-2260$ . However, if the developer so chooses, he may first appeal a decision of the director to the planning commission, provided that such appeal is submitted in writing to the director within ten (10) days after the date of the director's disapproval. The commission may affirm, reverse or modify, in whole or in part, the decision of the director.

Sincerely yours,

Jean Welden

Ebony Walden Neighborhood Planner On behalf of the Director of NDS

Cc (via email): Jim Tolbert, Director of NDS

Clay Green V.G. Sullivan Beau Dickerson

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May 15, 2014

Ashley Cooper, AICP Cooper Planning 304 7th Street SW Charlottesville, VA 22903

Re: Grove Street PUD - Rezoning Application & Site Plan Application

Dear Ashley,

I am writing to notify you that upon further review of the code with city staff, we have determined that these applications cannot be considered (with the exception of the proposed proffer amendments, see below) because there is now a 2 acre minimum requirement for PUD applications.

In November 20, 2006, shortly after the original Grove Street PUD approval, the City amended its PUD ordinance to require that a PUD site must contain a minimum of two (2) acres, *see* City Code Sec. 34-492. If material changes are proposed to a PUD Plan approved prior to November 20, 2006, the amended PUD Plan must comply with the 2-acre minimum. For the Grove Street PUD, we believe that the applications' proposed changes (i) to the building design (2) to the orientation/frontage of the duplex unit, (iii) to the site layout (staggering units, instead of building units to the lot line), and (iv) the location and dimensions of parking would materially alter the character and concept of the approved (2006) Grove Street PUD Plan. Therefore, we believe that Council may not, in accordance with City Code 34-492, approve a new/ materially altered PUD Plan for this site, because it contains less than 2 acres.

At this time, we offer the following as possible courses of action:

1. Proffer Amendments—We believe that the property owner or his agent may proceed to a public hearing and review by the Planning Commission and City Council, only for the proposed proffer amendment. This would allow Council to consider the request for (i) relief from the requirement for flat, green roofs, and (ii) for change in the language of the tree preservation obligation. Any change in previously-approved proffers requires Council approval, but we do not believe that the nature of these proposed changes, if approved, would trigger the requirement for compliance with the 2-acre minimum PUD acreage requirement.

2. Final Site Plan— Upon further review of Sec. 34-822, we have determined that your previous preliminary site plan is still valid. In order to proceed with the development of the 2006 approved PUD, a final site plan must be submitted and approved, reflecting the contents of the approved PUD Plan. Also, a final stormwater management plan must be submitted and approved in accordance with Chapter 10 of the City Code. It may be possible to achieve stormwater compliance without any material alteration of the 2006 PUD Plan. For example, the purchase of off-site nutrient credits could reduce on-site treatment requirements (see VA Code 62.1-44315:35). It appears to us that the easement conflict you reference within your application could be resolved with a minor adjustment of the location of one unit; this change could be dealt with administratively (as a minor PUD amendment).

Please let us know if the owner or his agent wishes to proceed with the proposed proffer amendment, <u>without</u> amendment of the 2006 PUD Plan. If so, we will refer only the proffer amendment to the Planning Commission and City Council for a public hearing and consideration.

Since, the Rezoning Application cannot go forward and the Site Plan is invalid because it does not conform to the approved PUD plan, we are going to give you a refund. Please let me know the contact information of the person whom the refund should be mail. Your plan was circulated to staff before the rezoning determination was made, thus I will forward your comments.

Sincerely yours,

Ebony Walden

Neighborhood Planner

Cc (via email): Clay Green

V.G. Sullivan Read Brodhead



April 30, 2014

#### **Project Narrative**

**Grove Street PUD Amended Plans** 

Dear Planning Commissioners,

The packet before you is an updated proposal for the Grove Street PUD. The original PUD was approved by City Council on October 2, 2006. Since that time, the preliminary site plan was approved in September of 2009, but no final site plan was submitted. The property has remained undeveloped. Dickerson Development, the prospective buyer and developer, discovered several significant issues with the existing concept plan and site plan during their due diligence process. The existing plans had some engineering problems (water flowing uphill) and also failed to show an existing easement on site. To accomplish a buildable PUD, this packet details the issues encountered and the minimal changes that are necessary to move forward. We have been diligent to maintain the original intent of the Grove Street PUD and to only make changes as required by the conditions and existing easements on site. Thank you for your consideration of this proposal.

Below is a table to help explain the differences and similarities of the approved Grove Street PUD and the proposed PUD as amended:

	Approved PUD	Proposed Amended PUD
Unit Count	6 total units with one duplex	6 total units with one duplex
Duplex Placement	Grove Street frontage	King Street frontage
10 <sup>th</sup> Street Frontage	All units on the property line	Units staggered to account for
		existing easement, creation of
		courtyards and increased privacy.
Open Space	2,096 sq ft plus yards (16%)	2,885 sq ft plus yards (22.4%)
Green Roof	Small green roof areas on units	No green roofs—all landscaping
		on ground level.
Rain Garden	One central garden with drainage going	Three smaller gardens dispersed
	uphill	around site
Landscape Plan	5 existing trees to be saved (directly next to	2 existing trees to be saved and
	new units and under new units)	10% total tree canopy provided
Unit Size & Design	4,091 sq ft of building footprint & Flat roofs	4,196 sq ft of building footprint &
	with siding	sloped roofs with siding

Listed below are the energy efficient and sustainable products that will be used in the construction of the proposed units:

- A) 2 x 4 wall construction wall cavities insulated with open cell foam
- B) Fully foamed roof with up to 6" of open cell foam
- C) Zip System wall and roof panel sheathing
- D) Low E casement windows

- E) 15 SEER Mitsubishi High Velocity ducted Mini-split HVAC (the energy savings and efficiency is equal to 18 SEER traditional HVAC. Further, it has only one rectangular unit outside rather than 2 large units)
- F) NG tankless hot water heaters
- G) All appliances will be "Energy Star" rated
- H) Low flow, dual flush toilets



The image above shows the neighborhood development patterns surrounding the site.

Section 34-490 of the Charlottesville Zoning Ordinance outlines the goals for PUD developments. Beneath each goal is the response included with the approved Grove Street PUD, and any commentary regarding this amendment is included in italics.

(1) TO ENCOURAGE DEVELOPMENTS OF EQUAL OR HIGHER QUALITY THAN OTHERWISE REQUIRED BY THE STRICT APPLICATION OF ZONING DISTRICT REGULATIONS THAT WOULD OTHERWISE GOVERN

As the zoning sits, 2 possibly 3 homes could be erected on the site. With the site plan presented we are able to construct 6 homes on the site, creating density, which the city has encouraged, maintaining open space, cleaning a tremendous amount of water run off, and providing the opportunity for people to purchase new construction homes in the downtown of Charlottesville at a price point that is rare for new construction in Charlottesville.

Amendment meets this same goal and response is applicable.

(2) TO ENCOURAGE INNOVATIVE ARRANGEMENTS OF BUILDINGS AND OPEN SPACES TO PROVIDE EFFICIENT, ATTRACTIVE, FLEXIBLE AND ENVIRONMENTALLY SENSITIVE DESIGN

The Site plan takes an existing parcel and creates a neighborhood gathering spot, is linked to the community at large, the scale of the homes designed gives a wonderful balance of indoor living space flowing into the outdoor living space, which then flows into the common space where native species of trees will be planted as well as some existing trees preserved.

Amendment meets this same goal and response is applicable. The updated plan creates a more dynamic and desirable use of the private yards and common open space on site by staggering the units to create a courtyard effect.

(3) TO PROMOTE A VARIETY OF HOUSING TYPES, OR, WITHIN A DEVELOPMENT CONTAINING ONLY A SINGLE HOUSING TYPE, TO PROMOTE THE INCLUSION OF HOUSES OF VARIOUS SIZES

Different housing types both in size and style have been designed, and a number of exterior elevations can be put with each home. But more importantly the home(s) have been designed in such a way that multiple income levels can be served.

Updated floor plans and elevations are included with this packet. Multiple income levels are being served.

(4) TO ENCOURAGE THE CLUSTERING OF SINGLE-FAMILY DWELLINGS FOR MORE EFFICIENT USE OF LAND AND PRESERVATION OF OPEN SPACE

The site plan is extremely efficient in its use of space. As mentioned before we have designed a neighborhood that promotes density in a very responsible way, using pervious materials, maintaining 22% of the property in open space all of which is located within walking distance of all that Cville has to offer.

Amendment meets this same goal and response is applicable. Because the amended PUD is actually connected now with an engineered site plan, what had been proposed is actually buildable.

(5) TO PROVIDE FOR DEVELOPMENTS DESIGNED TO FUNCTION AS COHESIVE, UNIFIED PROJECTS

Because London Calling has applied the same design values to the entire project, it will function as a community from an aesthetic, environmental, and livability perspective.

Amendment meets this same goal and response is applicable. All units will have a coordinated look and material palette.

(6) TO ENSURE THAT A DEVELOPMENT WILL BE HARMONIOUS WITH THE EXISTING USES AND CHARACTER OF ADJACENT PROPERTY, AND/OR CONSISTENT WITH PATTERNS OF DEVELOPMENT NOTED WITH RESPECT TO SUCH ADJACENT PROPERTY

As noted above, the development was designed as a transition between the more densely developed areas to the north and east, and the small-lot, residential character of the neighborhood to the south and west.

Amendment meets this same goal and response is applicable.

(7) TO ENSURE PRESERVATION OF CULTURAL FEATURES, SCENIC ASSETS AND NATURAL FEATURES SUCH AS TREES, STREAMS AND TOPOGRAPHY

The site plan incorporates the existing topography, using it as an asset to improve home design, views from second floors, storm water management. It preserves some of the existing trees and will add additional native trees to the site.

Amendment meets this same goal and response is applicable.

(8) TO PROVIDE FOR COORDINATION OF ARCHITECTURAL STYLES INTERNALLY WITHIN THE DEVELOPMENT AS WELL AS IN RELATION TO ADJACENT PROPERTIES ALONG THE PERIMETER OF THE DEVELOPMENT

The design presents a cohesive, attractive, updated interpretation of the architectural styles – ranging from cottage to Federal to Victorian, cladded mainly with stucco or lap siding – represented in the surrounding neighborhood. The buildings will be sided in Hardiplank or similar material with an alternating width plank. The rooflines will be gabled or shed.

Amendment meets this same goal and response is applicable. The approved units actually had flat roofs, which is not a common roof type for the neighborhood. The updated plans show a modern interpretation of gable roofs, a more common feature of the area.

(9) TO PROVIDE COORDINATED LINKAGES AMOUNG INTERNAL BUILDINGS AND USES, AND EXTERNAL CONNECTIONS, AT A SCALE APPROPRIATE TO THE DEVELOPMENT AND ADJACENT NEIGHBORHOODS

The design takes advantage of the topography to keep the scale of the development similar to the adjacent properties, while allowing for ample open space and parking. The homes are two story with a maximum height of 27' including the roof which is lower than the majority of neighboring structures. The proposed building footprint is only 610 square feet.

Amendment meets this same goal and response is applicable. Maximum footprint for proposed units is 747 square feet and all units are two-story. The common space provides a visual linkage on site and each unit connects with the street frontage, sidewalks and existing roadway system.

(10) TO FACILITATE ACCESS TO THE DEVELOPMENT BY PUBLIC TRANSIT SERVICES OR OTHER SINGLE VEHICLE-ALTERNATIVE SERVICES, INCLUDING, WITHOUT LIMITATION, PUBLIC PEDESTRIAN SYSTEMS.

1000-1002 Grove Street is ideally situated to facilitate access to public transit systems, bike lanes on the 9th-10th street connector and West Main Street, and safe sidewalks that lead to the university, the corner district, West Main Street, and the downtown mall. The site plan calls for a sidewalk wrapping the corner of 10th and Grove Streets, thus adding a section where none exists on 10th.

Amendment meets this same goal and response is applicable.

SEC. 34-493. REQUIRED OPEN SPACE.

THIS SITE PLAN PROVIDES FOR 16% SHARED OPEN SPACE AS DEFINED IN THE RELEVANT ARTICLE, DESIGNATED AS A "COMMON GARDEN" THAT DUE TO ITS SIZE WILL PRIMARILY PROVIDE A VISUAL AND

AESTHETIC AMENITY TO THE RESIDENTS AND NEIGHBORS OF THE DEVELOPMENT AND AN OPPORTUNITY TO INSTALL ENVIRONMENTAL FEATURES THAT INCREASE STORM-WATER RETENTION ON THE SITE, INCLUDING RAIN GARDENS AND NATIVE PLANT SPECIES. THE COMMON AREA WILL ALLOW FOR QUIET ACTIVITIES SUCH AS READING, PICNICKING, ETC.

The proposed PUD amendment provides 22.4% shared open space. Rain Barrels will also be installed in sequence with multiple Bio-retention areas to provide onsite water quality and storm-water detention.

WHILE NOT INCLUDED IN THE SHARED "OPEN SPACE" AS STRICTLY DEFINED, THE SITE PLAN ALSO PROVIDES PRIVATE YARDS, DECKS, AND PORCHES OPENING ONTO THE SHARED SPACE AND THE SURROUNDING STREETS, AS WELL AS ACCESSIBLE (ONE-STOREY) GREEN ROOFS TO IMPROVE THE COMMUNITY AND PRIVATE LIVES OF THE RESIDENTS AND THE SURROUNDING NEIGHBORHOOD.

Green roofs at such a small scale on small units are not financially feasible due to necessary structural requirements. Because they would have minimal positive impact and reduce the viability and affordability of the units, they have been removed from the plans in order to focus on landscaping at the ground level of the project.

#### **Updated Proffer Statement**

The original proffer statement is attached with this submission. Proffer #1 remains the same offering one of the six units as affordable. Proffer #2 is essentially the same except green roofs have been removed as previously indicated and pervious pavers have been added. Proffer #3 is the same. Proffer #4 still addresses tree protection on site, but duly recognizes the challenges of adding density to a small infill site.

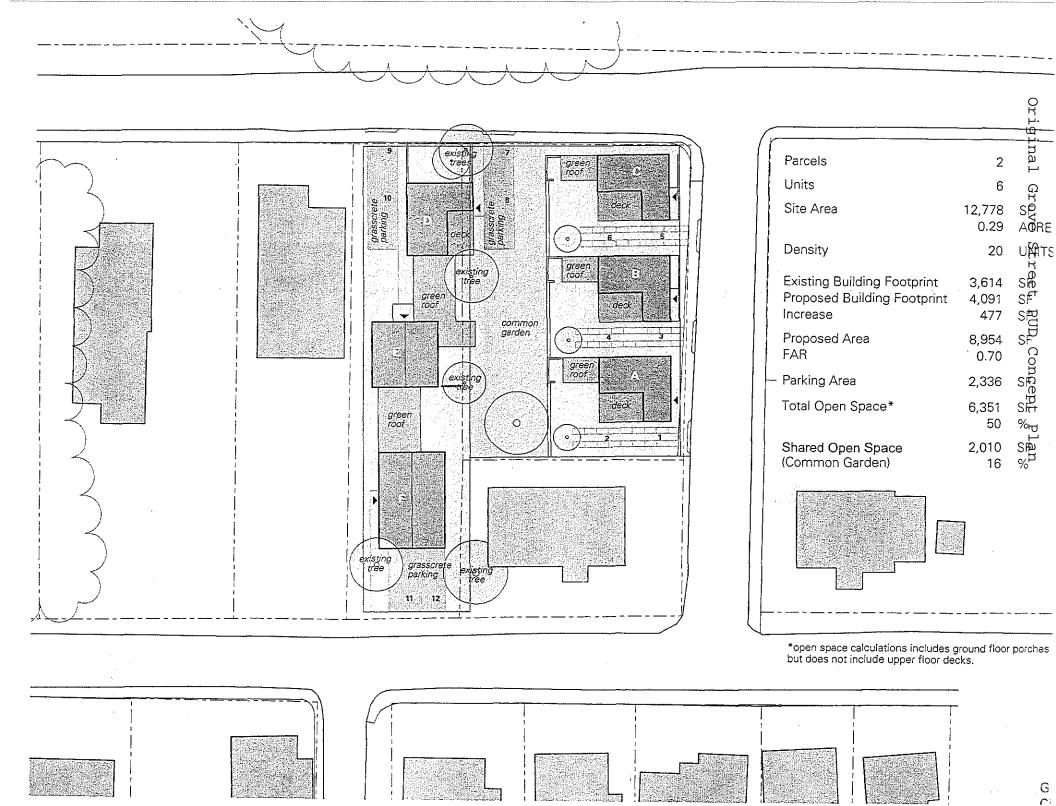
Dickerson Development, offers the following proffers for the Grove Street PUD:

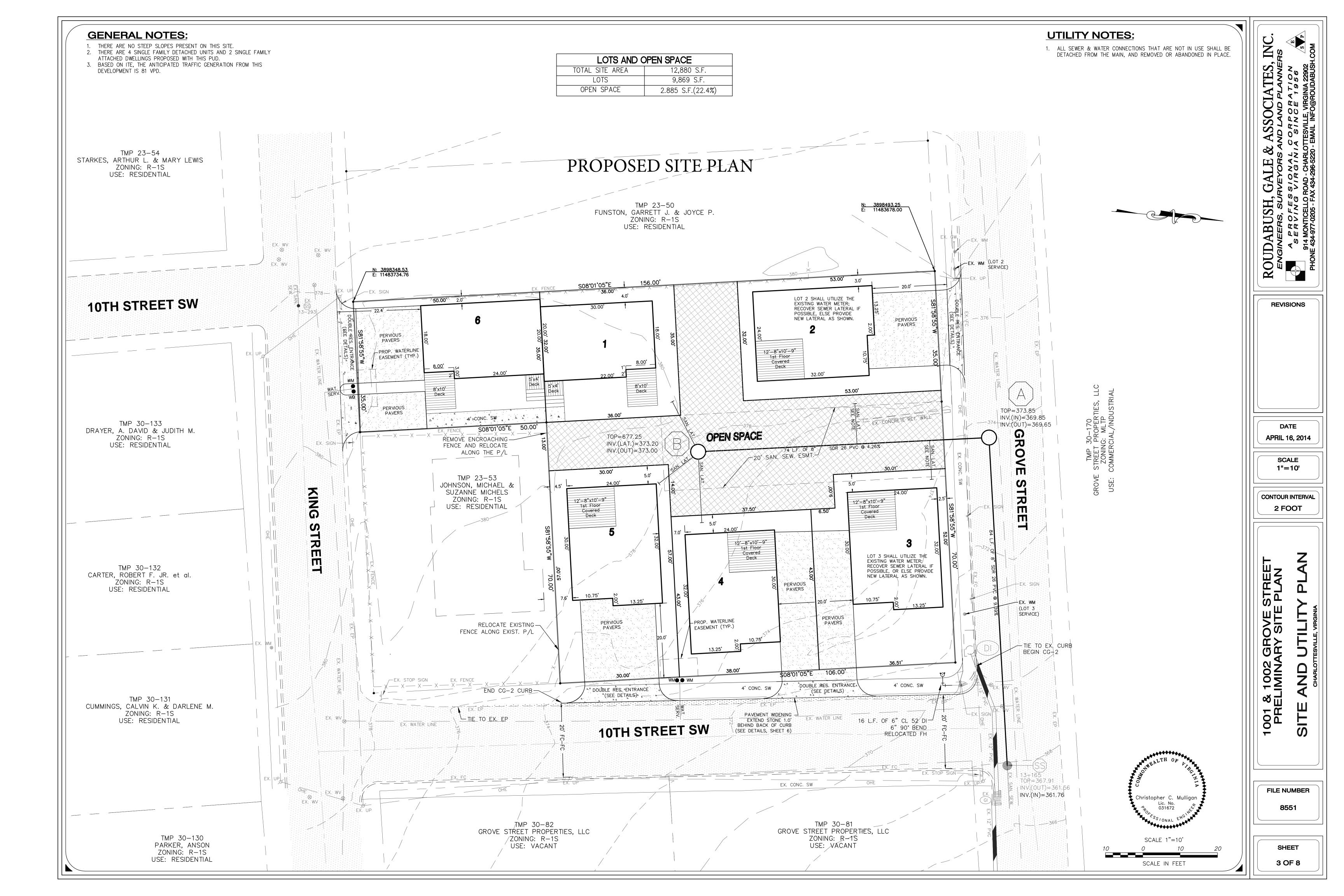
- 1) The owner shall provide one of the six units as an "affordable unit" for sale.
  - a. The affordable unit shall be affordable to households with an income of less than 80% of the gross median income in the City of Charlottesville for the most recent calendar year for which this figure is available.
  - b. The owner will work with Piedmont Housing Alliance or another similar agency to find a qualified buyer.
  - The affordable unit will be offered on the market for a period no shorter than 120 days. If the
    unit is not under contract within that period, the unit will convert to a market rate unit
    without restriction;
- 2) To install environmental features to protect stormwater quality in the City as shown on the proposed site plan dated April 16, 2014, which include rain gardens, rain barrels and pervious pavers;
- 3) To achieve Energy Star or higher efficiency rating for all units including insulation, appliances, hot water heaters and HVAC systems;
- 4) Efforts will be made to save the existing trees onsite as shown on the proposed site plan dated April 16, 2014, although the existing retaining walls and topography along the right-of-way may jeopardize the preservation efforts. Native trees from the City's approved planting list shall be utilized as replacements if necessary.

#### Proffers:

London Calling LLC, as part of the site plan, proffers the following:

- 1) To offer, through a PHA or similar program, one or more of the six units represented in the site plan to a buyer whose family gross income represents 80% or less of the gross median income in the city of Charlottesville for the most recent calendar year for which the figure is available;
- 2) To install environmental features shown on the site plan designed to retain as much storm water as possible, including but not limited to rain gardens, rain barrels, and green roofs on the one-storey sections of the buildings;
- 3) To achieve Energy Star or higher efficiency ratings for all units including insulation, appliances, hot water heaters, and HVAC systems;
- 4) To make every possible effort to save existing trees shown on the site plan, and replace any significant trees lost with native species such as white ash, Appalachian serviceberry, American dogwood, or similar.





#### AN ORDINANCE

# AMENDING AND REENACTING THE ZONING DISTRICT MAP INCORPORATED IN SECTION 34-1 OF THE ZONING ORDINANCE OF THE CODE OF THE CITY OF CHARLOTTESVILLE, 1990, AS AMENDED, BY THE RE-ZONING OF PROPERTY LOCATED AT 1000 and 1002 GROVE STREET FROM "R-1(S)" (RESIDENTIAL) TO "PUD," SUBJECT TO PROFFERS

WHEREAS, the owner(s) of the property located at 1000 and 1002 Grove Street, identified on City Tax Map 23 as Parcels 51 and 52, through their authorized representative ("Applicant"), submitted an application seeking a rezoning of such property from the "R-1(S)" Residential district to the "PUD" district, subject to a PUD development plan dated June 27, 2006 ("PUD Development Plan")) and to certain proffered development conditions set forth within the Applicant's Statement of Preliminary Proffer Conditions, dated as of June 27, 2006 (together, hereinafter the "Proposed Rezoning"); and

WHEREAS, a joint public hearing on the Proposed Rezoning was held before the City Council and Planning Commission on July 11, 2006, following notice to the public and to adjacent property owners as required by law; and

**WHEREAS**, on July 11, 2006 the Planning Commission voted to recommend denial of the Proposed Rezoning to the City Council; and

WHEREAS, the applicant has prepared a Final Proffer Statement dated June 27, 2006, as required by §34-64(c), and the Final Proffer Statement has been submitted and made a part of these proceedings; and

WHEREAS, this Council finds and determines that the public necessity, convenience, general welfare or good zoning practice requires the Proposed Rezoning; that both the existing "R-1(S)" and the proposed "PUD" zoning classifications are reasonable; and that the Proposed Rezoning is consistent with the Comprehensive Plan;

Now, therefore, **BE IT ORDAINED** by the Council of the City of Charlottesville, Virginia that the Zoning District Map Incorporated in Section 34-1 of the Zoning Ordinance of the Code of the City of Charlottesville, 1990, as amended, be and hereby is amended and reenacted as follows:

Section 34-1. Zoning District Map. Rezoning from "R-1(S)" Residential to "PUD", subject to the PUD Development Plan dated June 27, 2006 and to the proffered development conditions set forth within the Final Proffer Statement dated June 27, 2006, all of the property located at 1000 and 1002 Grove Street, identified on City Tax Map 23 as Parcels 51 and 52, consisting, together, of approximately 0.29 acre, having approximately 112 feet of frontage on Grove Street, 105 feet of frontage on 10<sup>th</sup> Street, S.W., and 37 feet of frontage on King Street.

Approved by Council October 2, 2006

lerk of City Council

Fifeville Heights Condominiums

A PUD Application regarding the property at 1000 & 1002 Grove Street & 10<sup>th</sup> St. SW.

Respectfully submitted by:

V. G. Sullivan and Mark H. Saunders on behalf of London Calling, LLC June 27, 2006

#### Narrative Statement

#### Background

London Calling, LLC was formed in the summer of 2005 by three partners, including two Charlottesville city residents, to pursue development opportunities that balance the following objectives:

- Responding to the city's Planned Unit Development initiative, create a small-scale, in-fill development model that improves the urban fabric of
  Charlottesville city neighborhoods and decreases sprawl by upgrading or
  replacing existing housing stock while delivering a reasonable return to
  investors;
- Build architecturally distinctive, high-quality middle-income houses;
- Offer units priced in an under-represented range of the Charlottesville real estate market (roughly \$200,000 \$350,000)
- Use environmentally sensitive building technologies wherever possible, not just as marketing but to lessen environmental impact, including increased storm-water retention and energy efficiency;
- Achieve maximum efficiency in building systems for environmental sustainability and long-term affordability;
- Allow artisan quality construction by acting as General Contractor;
- Preserve viable historic structures and urban forest wherever possible;
- Provide all of the above while acting as responsible community members, not outside "developers" insensitive to the needs of the community

We purchased the two parcels at 1000 and 1002 Grove Street in fall 2005. The parcels attracted us as a possible PUD because of their proximity to U.Va., particularly the hospital complex, and growing retail development along the West Main Street corridor and existing shopping along Cherry Avenue. The houses on the site had been neglected and ill-used and were no longer economically viable due to a variety of issues. The site also seemed ideal for increased density because of its situation at the edge of a residential neighborhood, across the street from a large parking lot and one block from a Piedmont Housing Alliance (PHA) site slated for mixed-use development. We felt that the site, if sensitively developed, could offer a transition between the parking lot and its future use, the 9<sup>th</sup>-10<sup>th</sup> connector, and the older neighborhood behind it. We also approached the owner of 1000 King Street. While he supported our development plans, he did not want to join our project.

#### Designers

In the same month, we approached the Charlottesville Community Design Center with our objective to create a small community on the sites. The CCDC referred us to Christopher Genter and Susanne Schindler of Genter-Schindler/Utile Architects, the winners of the Urban Habitats design competition. The architects embraced the idea of creating a PUD that planners and developers could point to as a successful model from a variety of perspectives. As experts in in-fill development, contextual design, and green building technology, the architects bring strong credentials to the project.

#### **Process**

With the first design in hand—a 7-unit site plan with 3 detached and 4 attached units clustered around a common garden—we came before the planning commission on April 11, 2006. The reaction to the proposal seemed to us largely positive, with more than one commissioner commending the care represented in the preparation of the design. We carried away the following generally constructive feedback:

- There was no consensus regarding detached versus attached houses, with some commissioners advocating single-family detached while others advocated row houses;
- Provide at least one affordable unit: the definition of "affordable" was debated (anywhere between \$120,000 \$292,000 per unit) but a sales price figure pegged to "80% of gross median income" was reported as a standard measure adopted by the city;
- Maintain and enhance the environmental features represented in the design, including replacing areas of turf that could be compacted with rain gardens or other plantings;
- Provide a more pleasant elevation on the King Street side for existing homeowners;
- Provide greater visual access to the common space so that the development does not appear to exclude the neighborhood.

After receiving this feedback, we approached the Fifeville Neighborhood Association with the plan. At a meeting on May 11, 2006, the Fifeville neighbors expressed great concern about what has happened to their neighborhood in the last 5 years—the 9<sup>th</sup>-10<sup>th</sup> connector, Walker Square apartments/condominiums, the threat of new development at the corner of Cherry Avenue and Ridge Street—and there were some neighbors who wanted no new development at all. Responding to the 7-unit site plan, which we passed out at the meeting and made available to the association's e-mail list, some of the neighbors echoed the planning commission's positive reaction to the quality of the design but we perceived the following specific negative reactions:

- The scale of the single attached 4-unit building was too large, creating a "wall" between the development and the existing neighbors
- Preserve as many existing trees as possible, especially a large American holly and a green ash, the largest tree on the site

- The neighbors were not interested in "affordability" as a token gesture in service of greater density
- The design provoked security concerns, including a perceived cut-through along a proposed walkway on the western boundary and easy access to the common area
- The design "turned its back on Grove," not providing a pleasing streetscape or enough "eyes on the street" to provide security
- King Street house design "clashed" with the cottage on the King-10<sup>th</sup> St. corner
- The level of density would create a "wedge" leading to further density in the neighborhood

With these reactions from planners and neighbors in hand, including minutes from a follow-up meeting with neighbors on May 20, 2006, the architects revised the plan in an attempt to balance their client's objectives with the other parties' concerns. The first revised plan incorporated the following:

- Decrease the density from 7 units to 6 detached units;
- Preserve all the important existing trees, including the holly and the ash;
- Add windows to the Grove Street elevations for more "eyes on the street;"
- Break up the walkway perceived as a security issue;
- Move two parking spaces to limit direct access to the common area—perceived as
  a security issue—while providing greater visual access to provide a visual respite
  for passing neighbors;
- Improve King Street elevation, including gabled roof to match neighboring houses

We also met with Peter Loach and Mark Watson of the PHA to learn more about and discuss their initiatives with regard to providing an "affordable unit."

We provided the revised 6-unit plan to the neighborhood association by email, and presented it to the planning commission on June 13, 2006. We did not receive any substantive reaction to the revised plan from the neighbors, although we understand that there is still opposition. From the planners, we received the following constructive feedback:

- Increase the variety of housing types, with one commissioner pushing larger homes up to 2000+ square feet
- Do more with the design of the middle unit E
- Push the environmental features
- Include an affordable unit

At this point, we asked the architects to balance as much as possible the sometimes conflicting reactions/requirements of the three primary interested parties: London Calling; the planning commission; and the Fifeville neighbors. The resulting 6-unit plan reflects what we believe to have been a positive process conducted in good faith by all parties:

- Provides a variety of housing types and sizes, including a 1057-square foot twobedroom cottage at unit E and two large (1658- and 1721-square foot) threebedroom homes with space for a family;
- Modulates units D, E, F with green-roofed one-storey extensions punctuating twoand three-story sections to mitigate the scale of the development
- Adds accessible green roofs to all one-story sections
- Preserves important trees
- Improves King and Grove Street elevations, from aesthetic and security perspectives
- Allows visual but not physical access to common garden

In sum, we believe that the proposed plan reflects our respect for the neighborhood and the goals of the planning commission, and will enhance the City in the long run.

#### Response to Specific Requirements

In response to the PUD "Objectives" as enumerated in Sec. 34-490, our plan meets the specific requirements as follows:

1) To encourage developments of equal or higher quality than otherwise required by the strict application of zoning district regulations that would otherwise govern:

The two structures currently on the site have been neglected to the point that they are derelict, not economically viable for renovation by an investor or a homeowner. Replacing the existing structures with two similar structures would likewise create homes far outside the size, scale, and price range of the surrounding neighborhood.

(2) To encourage innovative arrangements of buildings and open spaces to provide efficient, attractive, flexible and environmentally sensitive design.

The architects have created an attractive, ingenious arrangement of buildings with green roves and permeable parking spaces clustered around a central community space that provides further storm water retention.

(3) To promote a variety of housing types, or, within a development containing only a single housing type, to promote the inclusion of houses of various sizes;

The design offers four different housing sizes and floor plans to accommodate different lifestyles and income levels.

(4) To encourage the clustering of single-family dwellings for more efficient use of land and preservation of open space;

The design mixes single-family detached houses with a row of "attached cottages" linked by single-story extensions with green roofs to increase living space while minimizing the visual impact of the building's scale.

(5) To provide for developments designed to function as cohesive, unified projects;

Because London Calling has applied the same design values to the entire project, it will function as a community from an aesthetic, environmental, and livability perspective.

(6) To ensure that a development will be harmonious with the existing uses and character of adjacent property, and/or consistent with patterns of development noted with respect to such adjacent property;

As noted above, the development was designed as a transition between the more densely developed areas to the north and east, and the small-lot, residential character of the neighborhood to the south and west.

(7) To ensure preservation of cultural features, scenic assets and natural features such as trees, streams and topography;

The site plan incorporates the existing topography, using it as an asset to improve home design, views from upper-storey decks, and storm water management, and explicitly preserves at least five large existing trees and adds additional native species to the site

(8) To provide for coordination of architectural styles internally within the development as well as in relation to adjacent properties along the perimeter of the development; and

The design presents a cohesive, attractive, updated interpretation of the architectural styles—ranging from cottage to federal to Victorian, cladded mainly with stucco or lap siding—represented in the surrounding neighborhood. The buildings will be sided in Hardiplank or similar material with a variety of rooflines, including gabled, flat, and shed.

(9) To provide for coordinated linkages among internal buildings and uses, and external connections, at a scale appropriate to the development and adjacent neighborhoods;

The design takes advantage of the topography to keep the scale of the development similar to the adjacent properties, while allowing for ample open space and parking. The height of the buildings on Grove and King are equal to the existing structures and lower than the majority of neighboring structures, and the proposed building footprint is only 477 square feet (13%) greater than the existing footprint.

(10) To facilitate access to the development by public transit services or other single vehicle-alternative services, including, without limitation, public pedestrian systems.

1000-1002 Grove Street is ideally situated to facilitate access to public transit systems, bike lanes on the 9<sup>th</sup>-10<sup>th</sup> street connector and West Main Street, and safe sidewalks that lead to the University, the Corner district, West Main Street, and the Downtown Mall. The site plan calls for a sidewalk wrapping the corner of 10<sup>th</sup> and Grove Streets, thus adding a section where none exists on 10<sup>th</sup>.

#### Sec. 34-493. Required open space.

The site plan provides for 16% shared open space as defined in the relevant article, designated as a "common garden" that due to its size will primarily provide a visual and aesthetic amenity to the residents and neighbors of the development, and an opportunity to install environmental features that increase storm-water retention on the site, including rain gardens and native plant species. The common area will allow for quiet activities such as reading, picnicking, etc.

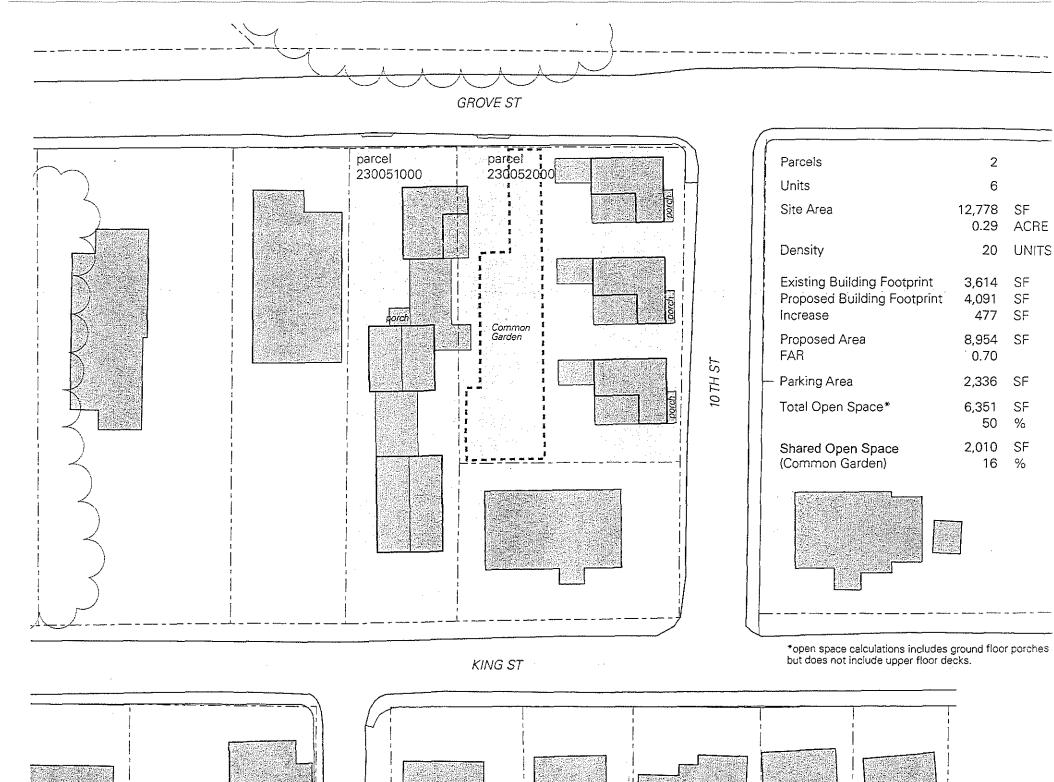
While not included in the shared "open space" as strictly defined, the site plan also provides private yards, decks, and porches opening onto the shared space and the surrounding streets, as well as accessible (one-storey) green roofs to improve the community and private lives of the residents and the surrounding neighborhood.

#### Proffers:

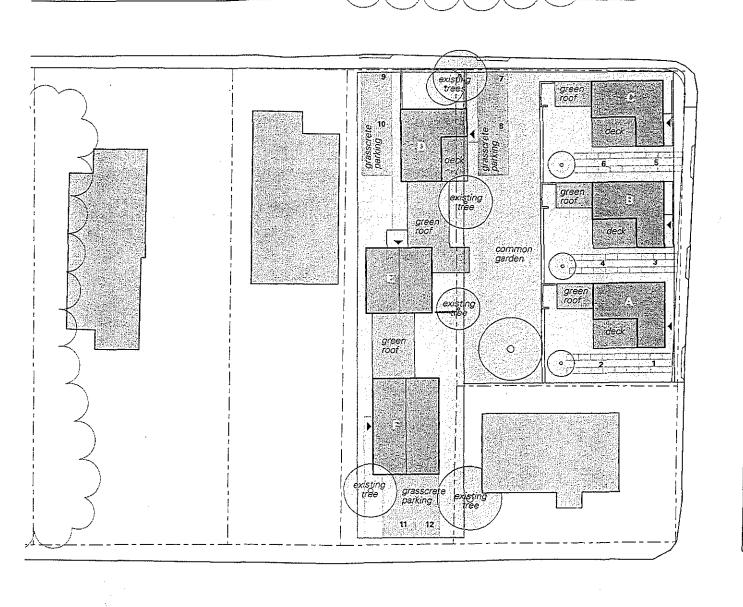
London Calling LLC, as part of the site plan, proffers the following:

- 1) To offer, through a PHA or similar program, one or more of the six units represented in the site plan to a buyer whose family gross income represents 80% or less of the gross median income in the city of Charlottesville for the most recent calendar year for which the figure is available;
- 2) To install environmental features shown on the site plan designed to retain as much storm water as possible, including but not limited to rain gardens, rain barrels, and green roofs on the one-storey sections of the buildings;
- 3) To achieve Energy Star or higher efficiency ratings for all units including insulation, appliances, hot water heaters, and HVAC systems;
- 4) To make every possible effort to save existing trees shown on the site plan, and replace any significant trees lost with native species such as white ash, Appalachian serviceberry, American dogwood, or similar.

Prepared and submitted on behalf of London	Calling LLC by
V. G. Sullivan	Mark H. Saunders

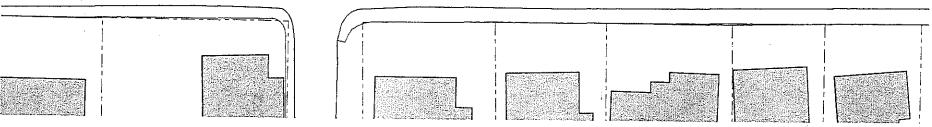


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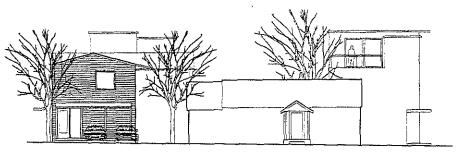
	T	
Parcels	2	
Units	6	
Site Area	12,778 0.29	SF ACRE
Density	20	UNITS
Existing Building Footprint Proposed Building Footprint Increase	3,614 4,091 477	SF
Proposed Area FAR	8,954 0.70	SF
- Parking Area	2,336	SF
Total Open Space*	6,351 50	SF %
Shared Open Space (Common Garden)	2,010 16	SF %

\*open space calculations includes ground floor porches but does not include upper floor decks.





Grove Street



King Street



10 th Street

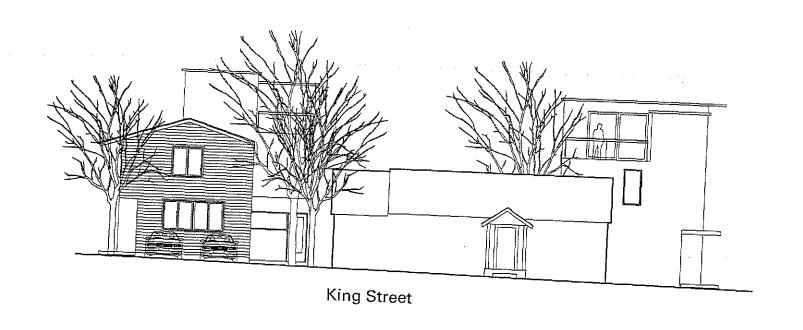
Grove 10th and King Street Charlottesville, VA

prepared for London Calling, LEC by utile

31 May 2006

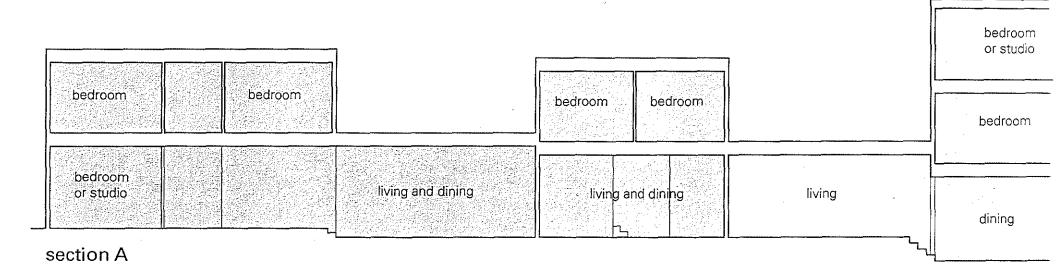


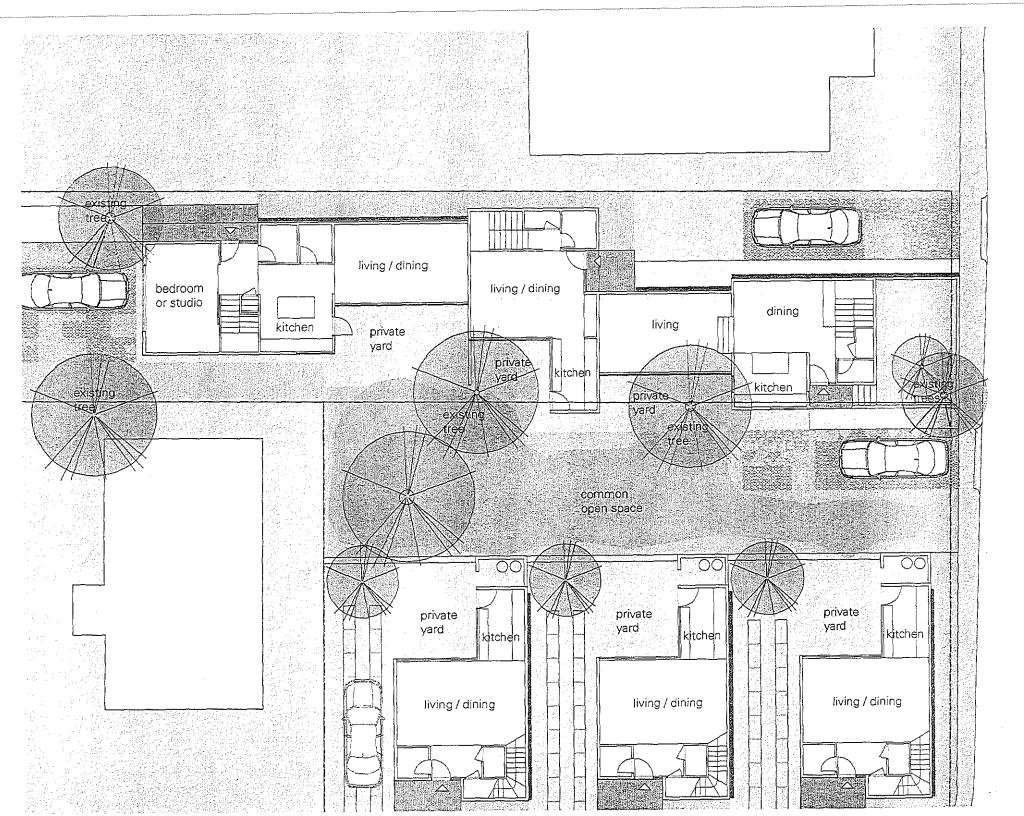
Grove Street



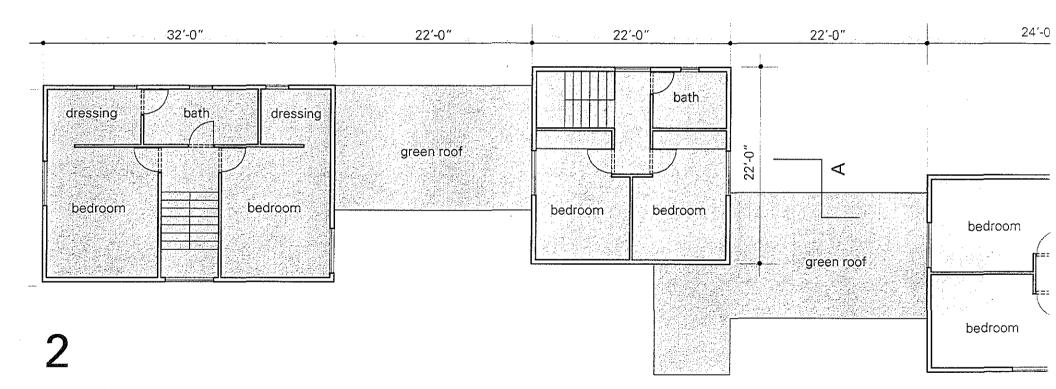


Unit	1	2	3	Total Pa	arking	Deck
Α	591	528	387	1,506	2	69 sf porch, 140 sf deck
В	591	528	387	1,506	2	69 sf porch, 140 sf deck
С	591	528	387	1,506	2	69 sf porch, 140 sf deck
D	791	528	402	1,721	2	28 sf porch, 125 sf deck
. E	573	484				55 sf porch
F	954	704		1,658	. 2	115 sf porch
6.	4,091		,	8,954	12	





Unit	1	2	3	Total	Parking	Deck
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(

# 1001 & 1002 GROVE STREET

# PRELIMINARY SITE PLAN

**Tonsler Magesterial District** 

### **ORIGINAL PROFFERS:**

SUBJECT TO PROFFERS

AN ORDINANCE
AMENDING AND REENACTING THE ZONING DISTRICT MAP INCORPORATED
IN SECTION 34-1 OF THE ZONING ORDINANCE
OF THE CODE OF THE CITY OF CHARLOTTESVILLE, 1990,
AS AMENDED, BY THE REZONING OF PROPERTY LOCATED AT
1000 AND 1002 GROVE STREET
FROM "R-1(S)" (RESIDENTIAL) TO "PUD",

WHEREAS, THE OWNER(S) OF THE PROPERTY LOCATED AT 1000 AND 1002 GROVE STREET, IDENTIFIED ON CITY TAX MAP 23 AS PARCELS 51 AND 52, THROUGH THIER AUTHORIZED REPRESENTATIVE ("APPLICANT"), SUBMITTED AN APPLICATION SEEKING A REZONING OF SUCH PROPERTY FROM THE "R-1(S)" RESIDENTIAL DISTRICT TO THE "PUD" DISTRICT, SUBJECT TO A PUD DEVELOPMENT PLAN DATED JUNE 27, 2006 ("PUD DEVELOPMENT PLAN)) AND TO CERTAIN PROFFERED DEVELOPMENT CONDITIONS SET FORTH WITHIN THE APPLICANT'S STATEMENT OF PRELIMINARY PROFFER CONDITIONS, DATED AS JUNE 27, 2006 (TOGETHER, HEREINAFTER THE "PROPOSED REZONING"). AND

WHEREAS, A JOINT PUBLIC HEARING ON THE PROPOSED REZONING WAS HELD BEFORE THE CITY COUNCIL AND PLANNING COMMISSION ON JULY 11 2006, FOLLOWING NOTICE TO THE PUBLIC AND ADJACENT PROPERTY OWNERS AS REQUIRED BY LAW, AND

WHEREAS, ON JULY 11, 2006 THE PLANNING COMMISSION VOTED TO RECOMMEND DENIAL OF THE PROPOSED REZONING TO THE CITY COUNCIL; AND

WHEREAS, THE APPLICANT HAS PREPARED A FINAL PROFFER STATEMENT DATED JUNE 27, 2006 AS REQUIRED BY §34-64(c), AND THE FINAL PROFFER STATEMENT HAS BEEN SUBMITTED AND MADE PART A OF THESE PROCEEDINGS: AND

WHEREAS, THIS COUNCIL FINDS AND DETERMINES THAT THE PUBLIC NECESSITY, CONVENIENCE, GENERAL WELFARE OR GOOD ZONING PRACTICES REQUIRE THE PROPOSED REZONING; THAT BOTH THE EXISTING "R-1(S)" AND THE PROPOSED "PUD" ZONING CLASSIFICATIONS ARE REASONABLE; AND THAT THE PROPOSED REZONING IS CONSISTENT WITH THE COMPREHENSIVE PLAN;

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF CHARLOTTESVILLE, VIRGINIA THAT THE ZONING DISTRICT MAP INCORPORATED IN SECTION 34-1 OF THE ZONING ORDINANCE OF THE CODE OF THE CITY OF CHARLOTTESVILLE, 1990, AS AMENDED BE AND HEREBY IS AMENDED AND REENACTED AS FOLLOWS:

SECTION 34-1: ZONING DISTRICT MAP. REZONING FROM "R-1(S) RESIDENTIAL TO "PUD", SUBJECT TO THE PUD DEVELOPMENT PLAN DATED JUNE 27, 2006 AND TO THE PROFFERED DEVELOPMENT CONDITIONS SET FORTH WITHIN THE FINAL PROFFER STATEMENT DATED JUNE 27, 2006, ALL OF THE PROPERTY LOCATED AT 1000 AND 1002 GROVE STREET, IDENTIFIED ON CITY TAX MAP 23 AS PARCELS 51 AND 52, CONSISTING TOGETHER OF APPROXIMATELY 0.29 ACRE, HAVING APPROXIMATELY 112 OF FRONTAGE ON GROVE STREET, 105 FEET OF FRONTAGE ON 10TH STREET, S.W. AND 37 FEET OF FRONTAGE ON KING STREET.

Approved by Council -October 2, 2016

Cled of City Council

(10) TO FACILITATE ACCESS TO THE DEVELOPMENT BY PUBLIC TRANSIT SERVICES OR OTHER SINGLE VEHICLE—ALTERNATIVE SERVICES, INCLUDING, WITHOUT LIMITATION, PUBLIC PEDESTRIAN SYSTEMS.

1000-1002 GROVE STREET IS IDEALLY SITUATED TO FACILITATE ACCESS TO PUBLIC TRANSIT SYSTEMS, BIKE LANES ON THE 9TH-10TH STREET CONNECTOR AND WEST MAIN STREET, AND SAFE SIDEWALKS THAT LEAD TO THE UNIVERSITY, THE CORNER DISTRICT, WEST MAIN STREET, AND THE DOWNTOWN MALL. THE SITE PLAN CALLS FOR A SIDEWALK WRAPPING THE CORNER OF 10TH AND GROVE STREETS, THUS ADDING A SECTION WHERE NONE EXISTS ON 10TH.

SEC. 34-493. REQUIRED OPEN SPACE.

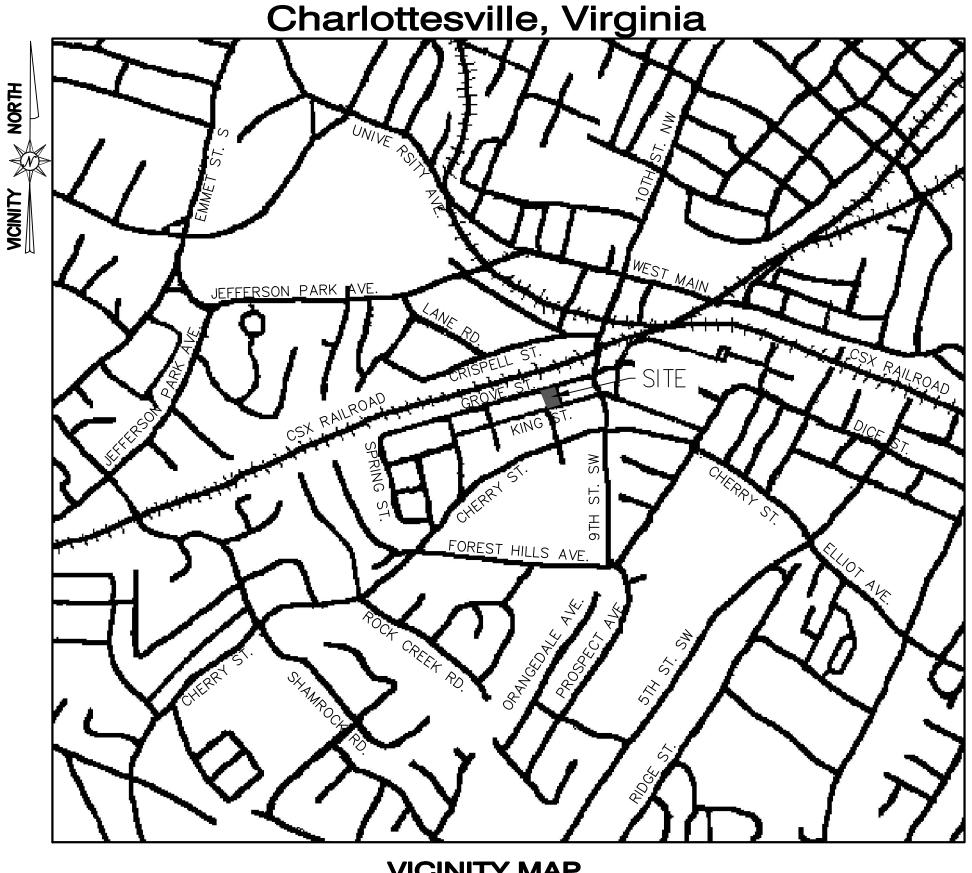
THIS SITE PLAN PROVIDES FOR 16% SHARED OPEN SPACE AS DEFINED IN THE RELEVANT ARTICLE, DESIGNATED AS A "COMMON GARDEN" THAT DUE TO ITS SIZE WILL PRIMARILY PROVIDE A VISUAL AND AESTHETIC AMENITY TO THE RESIDENTS AND NEIGHBORS OF THE DEVELOPMENT AND AN OPPORTUNITY TO INSTALL ENVIRONMENTAL FEATURES THAT INCREASE STORM—WATER RETENTION ON THE SITE, INCLUDING RAIN GARDENS AND NATIVE PLANT SPECIES. THE COMMON AREA WILL ALLOW FOR QUIET ACTIVITIES SUCH AS READING, PICNICKING, ETC.

WHILE NOT INCLUDED IN THE SHARED "OPEN SPACE" AS STRICTLY DEFINED, THE SITE PLAN ALSO PROVIDES PRIVATE YARDS, DECKS, AND PORCHES OPENING ONTO THE SHARED SPACE AND THE SURROUNDING STREETS, AS WELL AS ACCESSIBLE (ONE—STOREY) GREEN ROOFS TO IMPROVE THE COMMUNITY AND PRIVATE LIVES OF THE RESIDENTS AND THE SURROUNDING NEIGHBORHOOD.

## PROFFERS

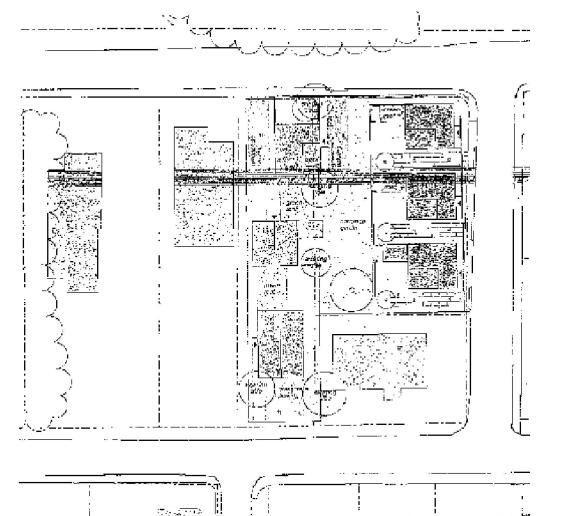
LONDON CALLING LLC, AS PART OF THE SITE PLAN, PROFFERS THE FOLLOWING:

- 1) TO OFFER, THROUGH A PHA OR SIMILAR PROGRAM, ONE OR MORE OF THE SIX UNITS REPRESENTED IN THE SITE PLAN TO A BUYER WHOSE FAMILY GROSS INCOME REPRESENTS 80% OR LESS OF THE GROSS MEDIAN INCOME IN THE CITY OF CHARLOTTESVILLE FOR THE MOST RECENT CALENDAR YEAR FOR WHICH THE FIGURE IS AVAILABLE:
- 2) TO INSTALL ENVIRONMENTAL FEATURES SHOWN ON THE SITE PLAN DESIGNED TO RETAIN AS MUCH STORM WATER AS POSSIBLE, INCLUDING BUT NOT LIMITED TO RAIN GARDENS, RAIN BARRELS, AND GREEN ROOFS ON THE ONE—STORY SECTIONS OF THE BUILDINGS;
- 3) TO ACHIEVE ENERGY STAR OR HIGHER EFFICIENCY RATINGS FOR ALL UNITS INCLUDING INSULATION, APPLIANCES, HOT WATER HEATERS, AND HVAC SYSTEMS;
- 4) TO MAKE EVERY POSSIBLE EFFORT TO SAVE EXISTING TREES SHOWN ON THE SITE PLAN AND REPLACE AND SIGNIFICANT TREE LOST WITH NATIVE SPECIES SUCH AS WHITE ASH, APPALACHIAN SERVICEBERRY, AMERICAN DOGWOOD, OR SIMILAR.



VICINITY MAP 1" = 1000'

# PROFFERS (cont.):



PARCELS	2
UNITS	6
SITE AREA	12,880 SF 0.2957 ACRES
DENSITY	20 UNITS/ACRE
EXISTING BUILDING FOOTPRINT PROPOSED BUILDING FOOTPRINTS (2-STORY UNITS)	3,614 SF 4,236 SF
FOOTPRINT INCREASE:	622 SF
PROPOSED FLOOR AREA F.A.R.	7,847 SF 0.61
SHARED OPEN SPACE (COMMON GARDEN)	2,885 SF 22.4%

### **SITE DATA:**

OWNER/DEVELOPER LONDON CALLING LLC 813 EAST JEFFERSON STREET

CHARLOTTESVILLE VA, 22902

PLAN PREPARER: ROUDABUSH, GALE, & ASSOCIATES 914 MONTICELLO ROAD

CHARLOTTESVILLE, VA. 22902

TAX MAP PARCEL No: 230052000, 230051000
D.B. 1050, Page 863

ZONING: ZONED PUD, OCT. 2, 2006

PROPOSED USE: SINGLE FAMILY RESIDENTIAL
4 SINGLE FAMILY DETACHED UNITS

TOTAL OF 6 UNITS

PARCEL AREA: 0.17 ACRES & 0.125 ACRES

RESIDENTIAL DENSITY: 20 DU/AC

SETBACKS: BUILDING - NONE PARKING - NONE

BUILDING HEIGHT: 2—STORY

PARKING: 6 SPACES REQUIRED (1 SPACE PER UNIT)
11 SPACES PROVIDED ON—SITE (NO ON—STREET PARKING REQUIRED)

WATERSHED: ROCK CREEK TO RIVANNAH RIVER HUC#02080204
THIS SITE IS NOT LOCATED WITHIN A RESERVOIR WATERSHED.

1 SINGLE FAMILY ATTACHED UNIT

TOPOGRAPHY: PROVIDED BY DAVID WYANT, 4686 GARTH ROAD CROZET, VIRGINIA 22932

ORIGINALLY DATED 4-07-09, AND UPDATED ON 1-5-09
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE TOPOGRAPHY
SHOWN FOR THE DEVELOPMENT AREA ON THESE PLANS WAS
ACCURATE AT THE TIME OF THE INITIAL PLAN SUBMITTAL.
FIELD VERIFIED BY ROUDABUSH, GALE & ASSOCIATES, FEB. 2014.

DATUM: VERTICAL — NAVD 88, HORIZONTAL — STATE PLAN COORDINATE SYSTEM, SOUTH ZONE

CRITICAL SLOPES: THERE ARE NO CRITICAL SLOPES ONSITE.

FLOODPLAIN: THIS PROJECT IS NOT LOCATED WITHIN FLOODPLAIN LIMITS AS SHOWN ON

FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 51003C0288B, EFFECTIVE DATE: FEBRUARY 04, 2005.

DISTURBED AREA: APPROXIMATELY 0.3 ACRES OF CLEARING, GRUBBING AND HOUSE CONSTRUCTION.

TRAFFIC: ITE LAND USE CODE: 270
81 TRIPS PER DAY 6 MORNING PEAK TRIPS 7 EVENING PEAK TRIPS

Ln(T)=0.88Ln(X)+2.82 Ln(T)=0.90Ln(X)+0.14 Ln(T)=0.92Ln(X)+0.24 CANOPY COVERAGE: REFER TO THE COMPUTATIONS ON THE LANDSCAPE PLAN, SHEET 8

STORMWATER: REFER TO THE COMPUTATIONS ON THE SWM NARRATIVE AND COMPUTATIONS, SHEET 7.

## **SHEET INDEX**

SHEET 1 ----- COVER SHEET

SHEET 2 ----- DEMO & EXISTING CONDITIONS

SHEET 3 ----- SITE AND UTILITY PLAN
SHEET 4 ----- GRADING AND SWM PLAN

SHEET 5 ----- DRAINAGE ANALYSIS
SHEET 6 ----- NOTES AND DETAILS

SHEET 7 ----- SWM NARRATIVE & COMPUTATIONS

SHEET 8 ----- LANDSCAPING PLAN

PROPOSED LOT COVERAGE							
LOT #	PROP. UNIT FOOTPRINT (S.F.)	ADDITIONAL LOT IMP. COVER (S.F)	DRIVEWAY APRONS (PERVIOUS PAVERS)	LOT AREA (S.F.)			
LOT 1	584 S.F.		370 S.F.	1,260 S.F.			
LOT 2	747 S.F.		395 S.F.	1,696 S.F.			
LOT 3	747 S.F.		400 S.F.	1,840 S.F.			
LOT 4	747 S.F.		400 S.F.	1,613 S.F.			
LOT 5	747 S.F.		468 S.F.	1,710 S.F.			
LOT 6	624 S.F.	144 S.F.	178 S.F.	1,750 S.F.			
OPEN	2,885 S.F.	N/A					
% COVER	32.60%	100% IMPERVIOUS	0% IMPERVIOUS	33.7%			
CATEGORY TOTALS	4,196 S.F.	144 S.F.	2,211 S.F.	9,869 S.F.			



ALE & ASSOCIATES, IN EYORS AND LAND PLANNERS

ENGIN

REVISIONS

DATE
APRIL 16, 2014

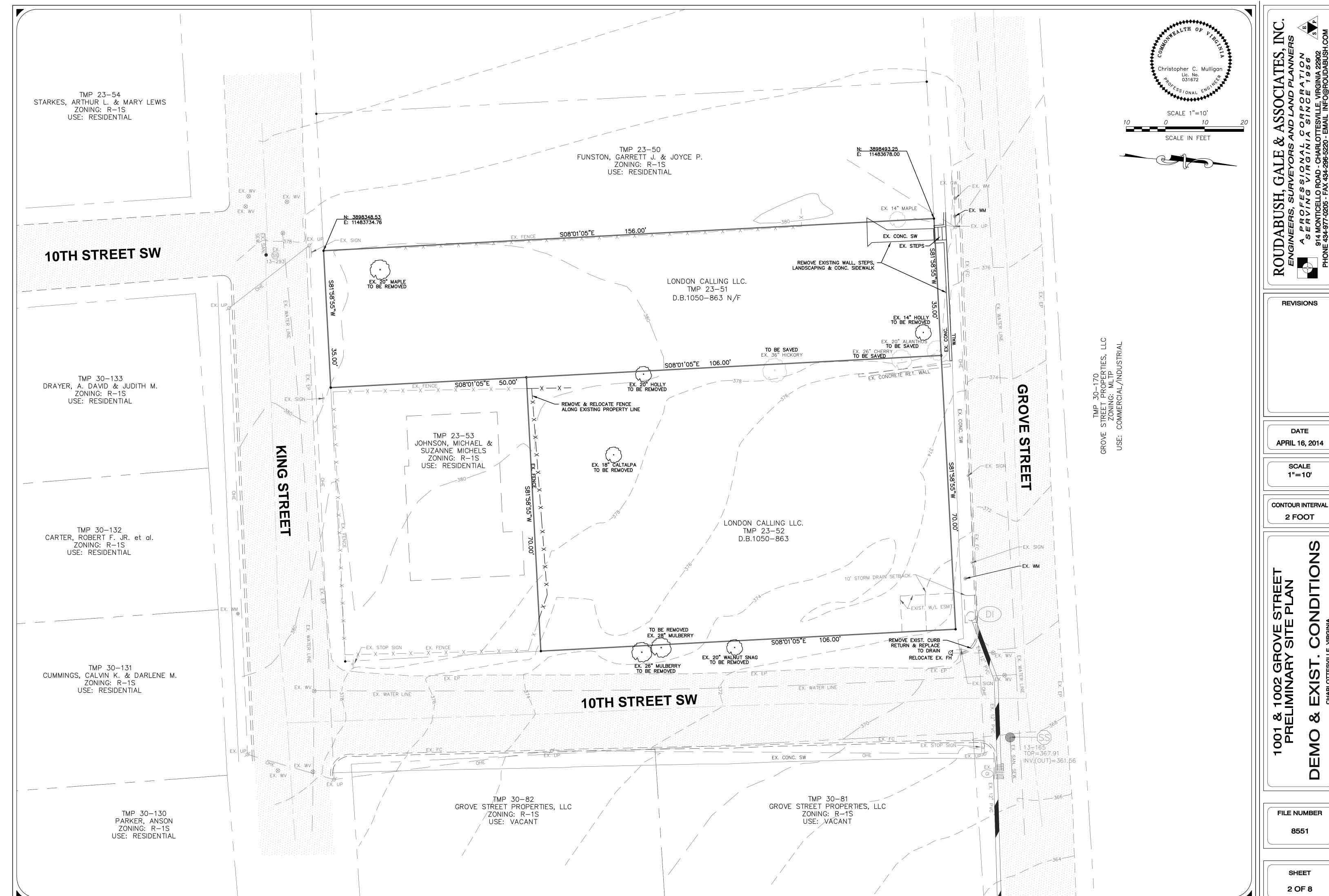
SCALE AS SHOWN

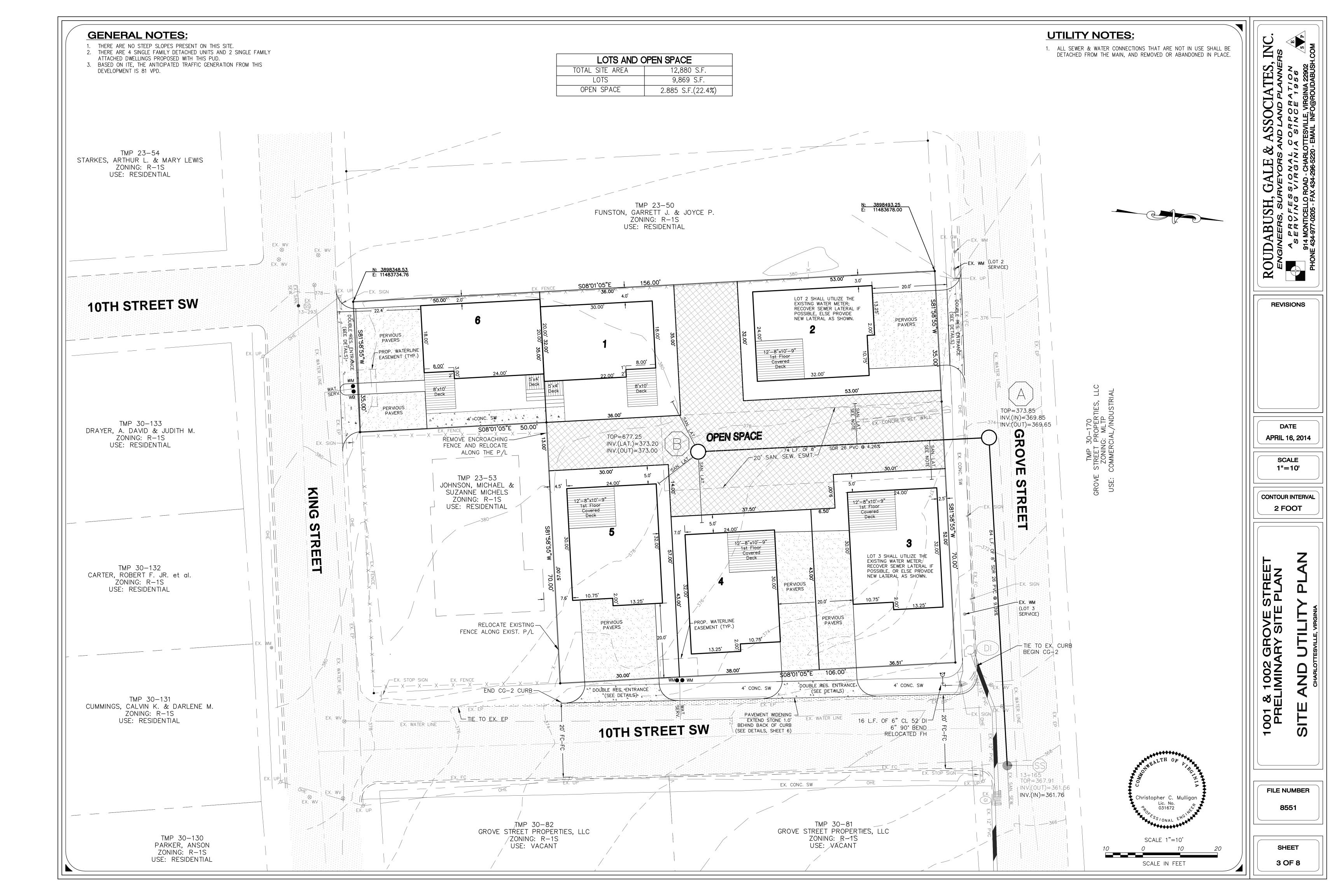
STREET

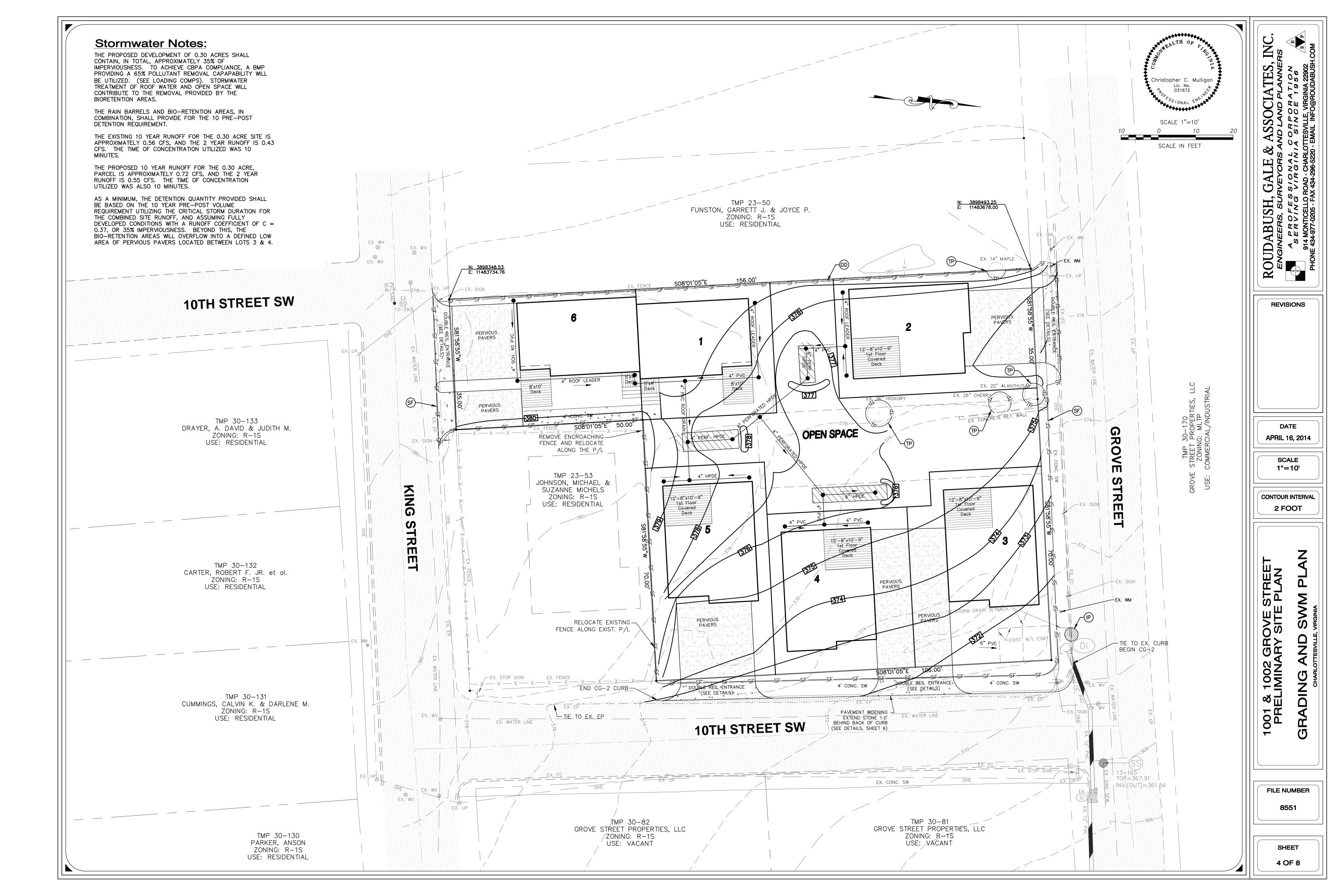
& 1002 GROVE STRI ELIMINARY SITE PLA COVER SHEET

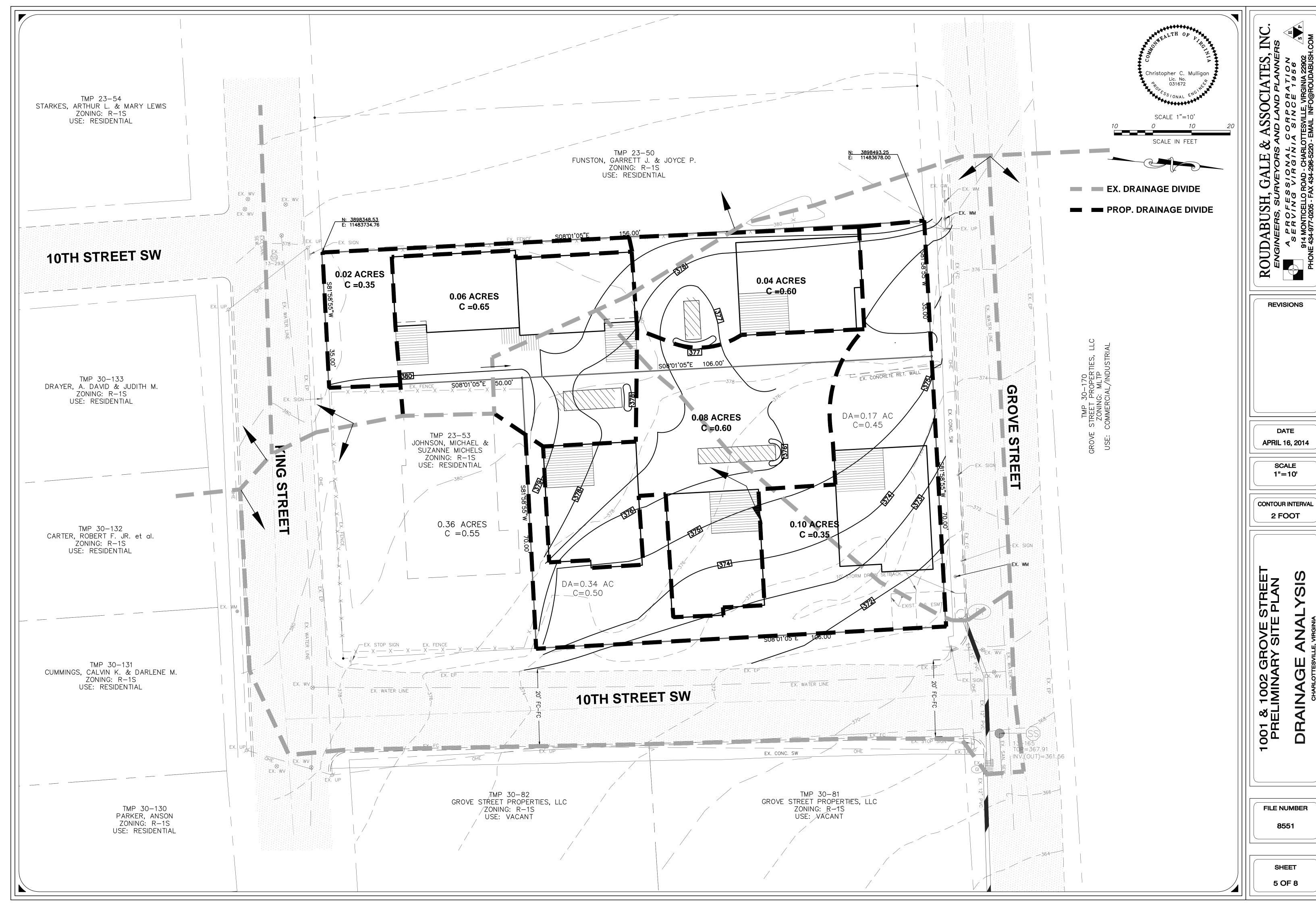
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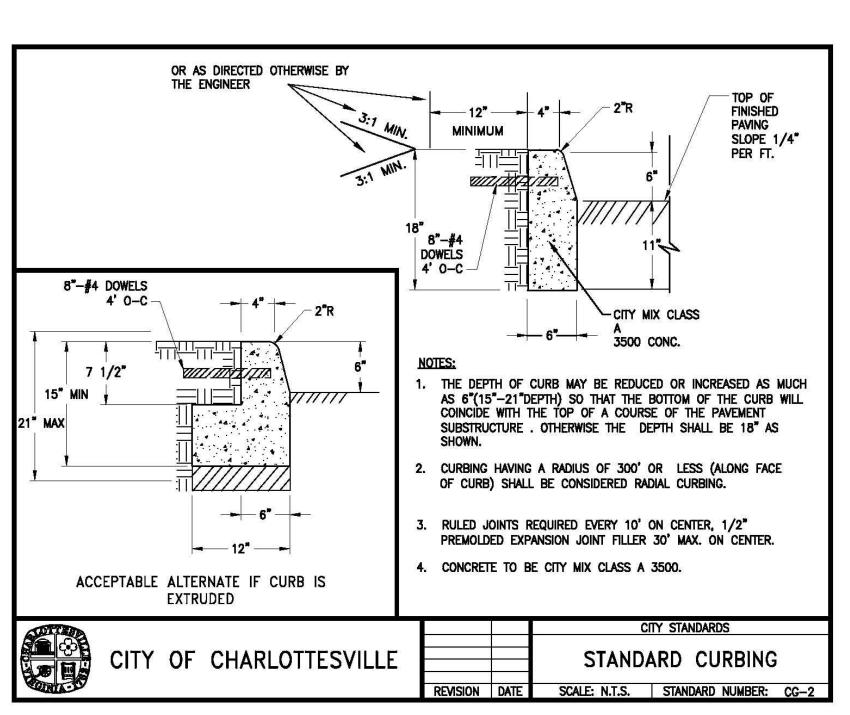
SHEET
1 OF 8

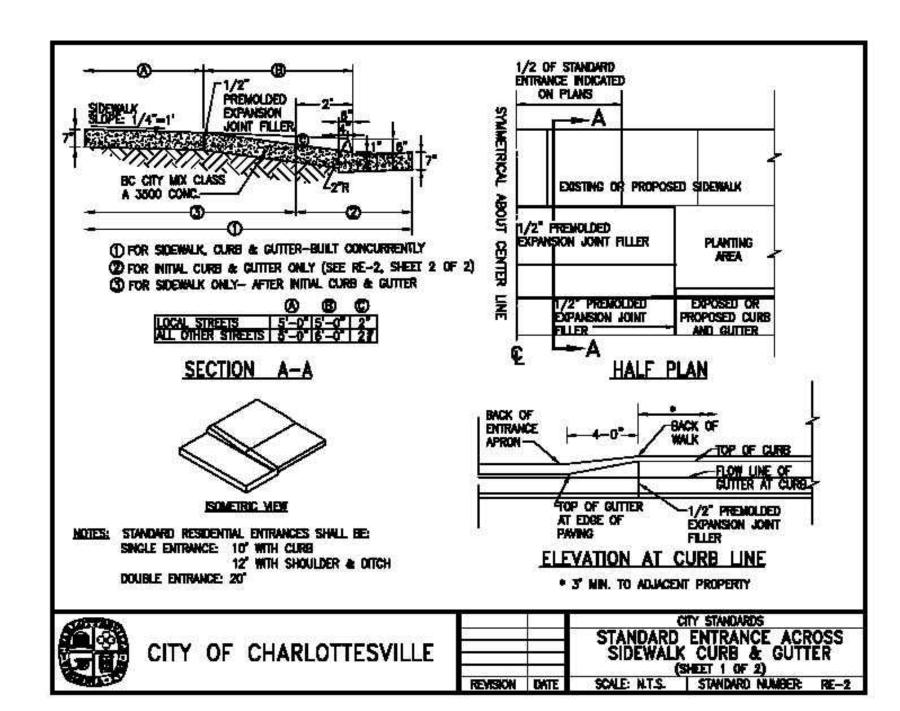


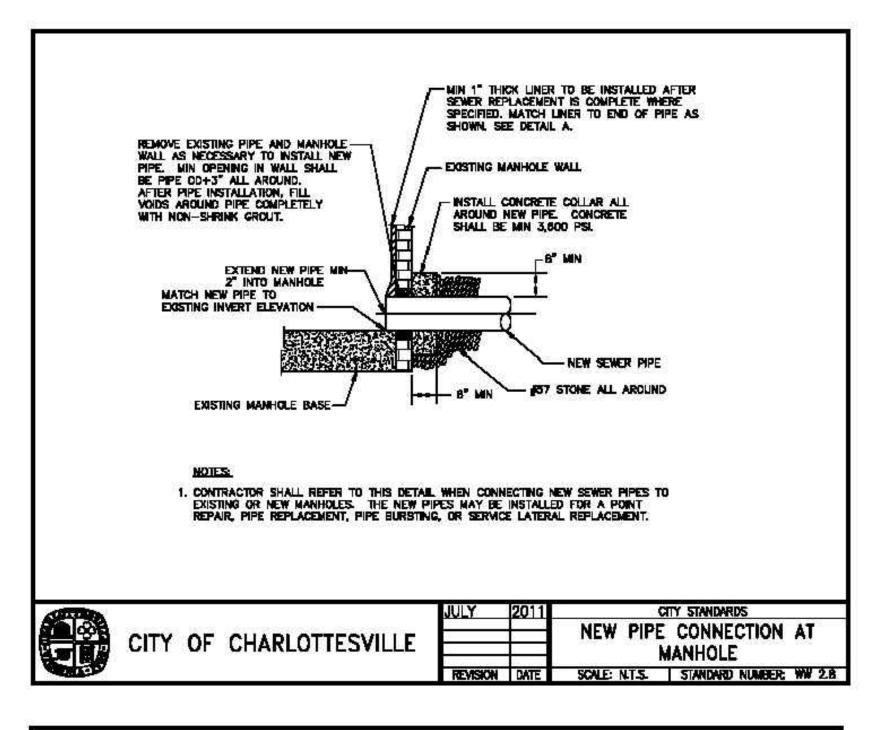


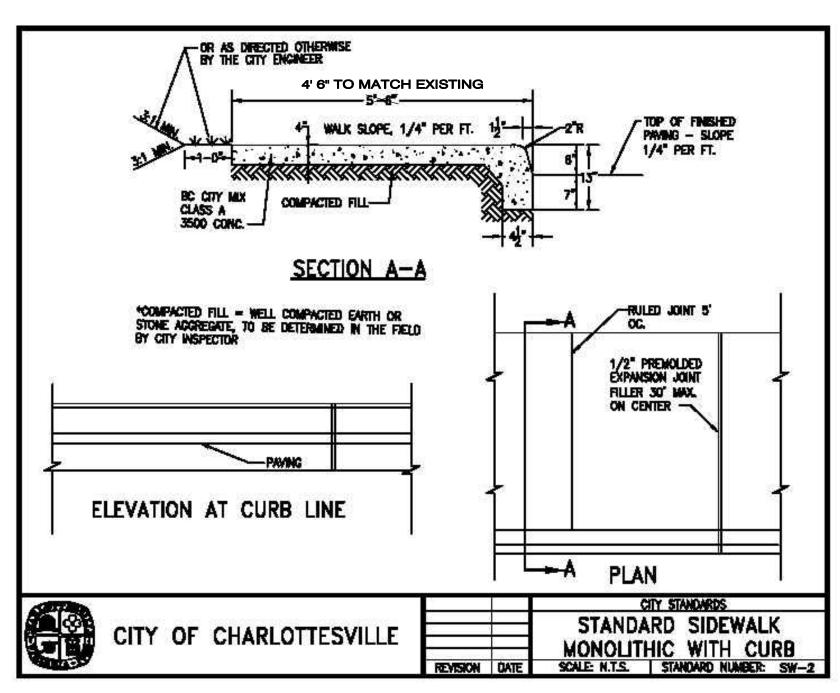


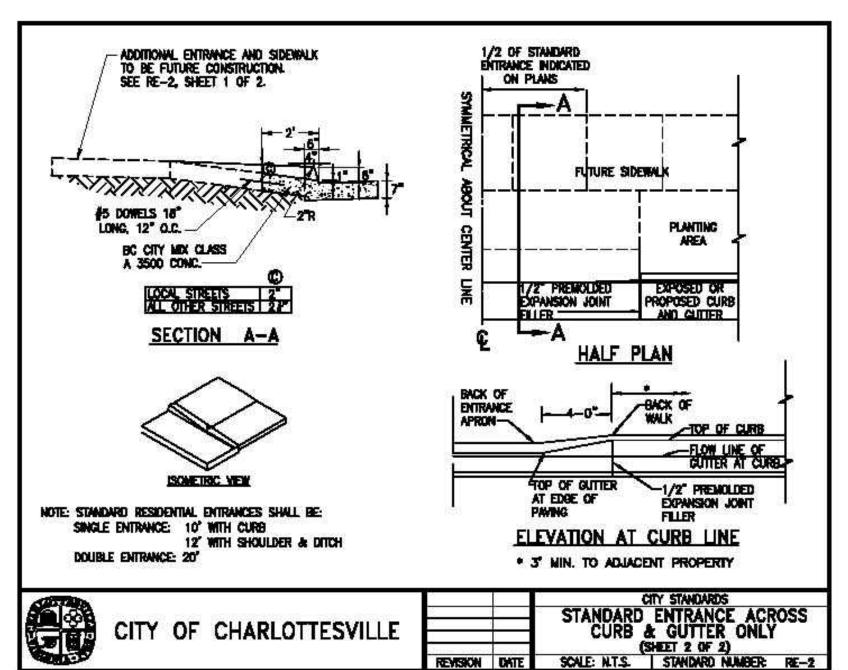


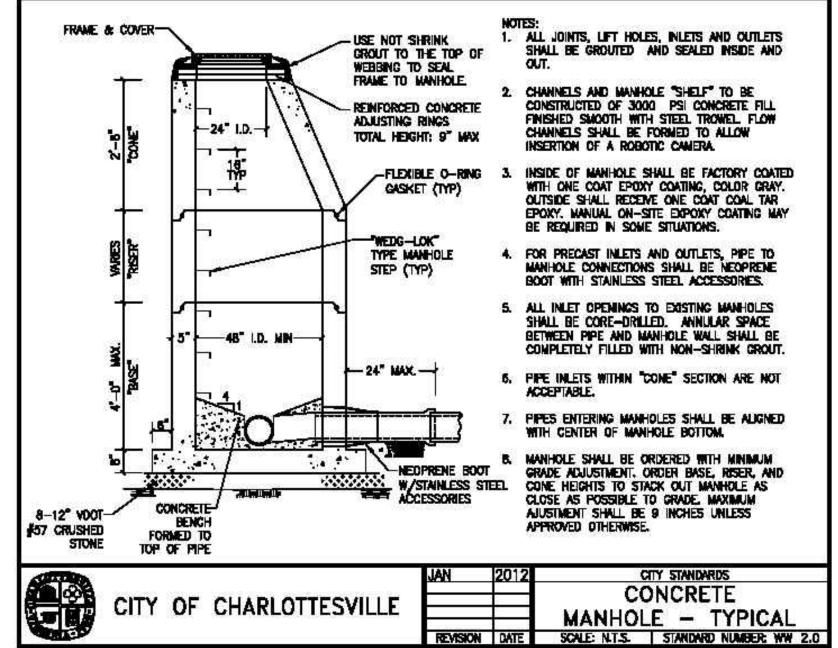


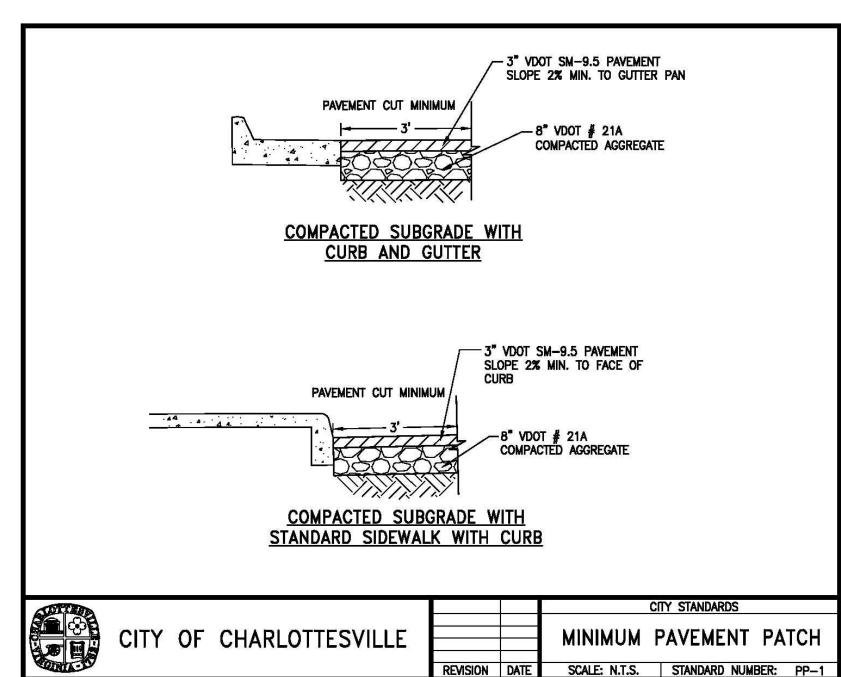


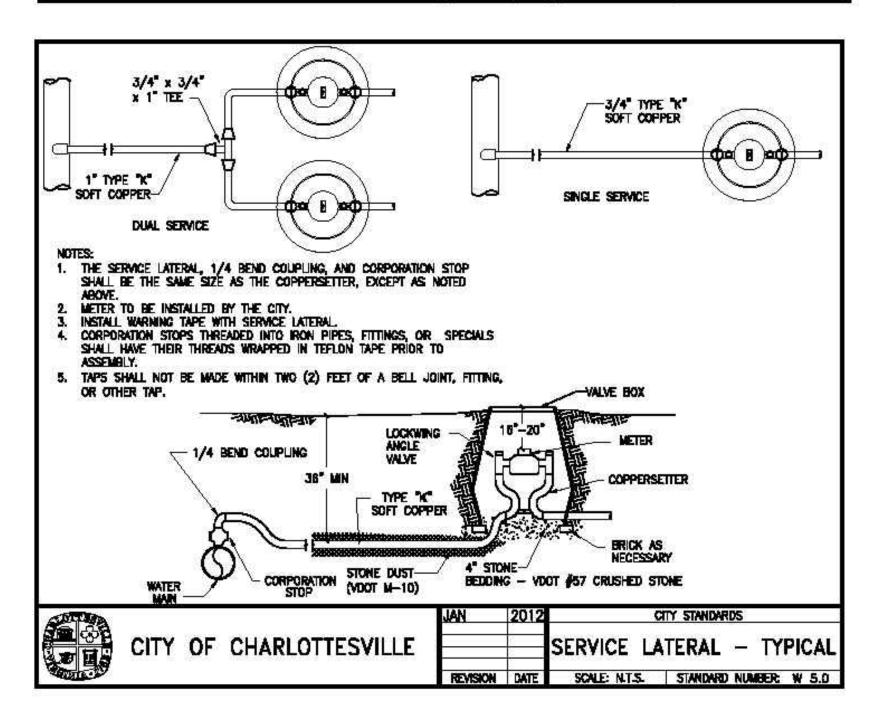


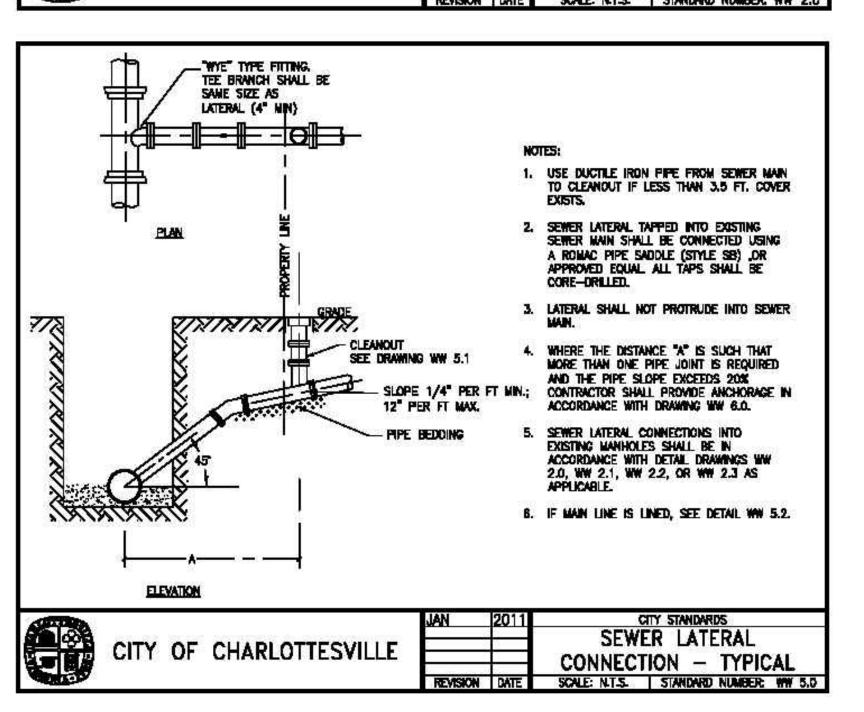














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**REVISIONS** 

DATE

**APRIL 16, 2014** 

SCALE

**AS SHOWN** 

FILE NUMBER 8551

SHEET
6 OF 8

VA-Albemarle County 2-Year Duration=10 min, Inten=4.12 in/hr grove road Prepared by Hewlett-Packard Company Printed 3/26/2014 HydroCAD® 10.00 s/n 08126 © 2013 HydroCAD Software Solutions LLC

#### Summary for Subcatchment 5S: Pre Developed Drainage

0.43 cfs @ 0.17 hrs, Volume= 0.006 af, Depth= 0.24"

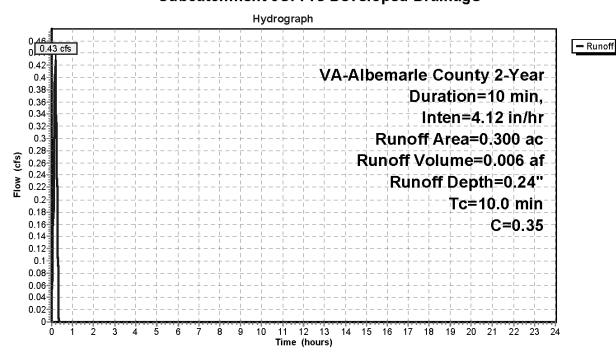
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs VA-Albemarle County 2-Year Duration=10 min, Inten=4.12 in/hr

Area (ac) C Description 0.300 0.35 Exisitng Structure & Drive 100.00% Pervious Area

Tc Length Slope Velocity Capacity Description

#### Subcatchment 5S: Pre Developed Drainage

Direct Entry,



VA-Albemarle County 10-Year Duration=10 min, Inten=5.37 in/hr grove road Prepared by Hewlett-Packard Company Printed 3/26/2014 HydroCAD® 10.00 s/n 08126 © 2013 HydroCAD Software Solutions LLC

#### Summary for Subcatchment 5S: Pre Developed Drainage

0.56 cfs @ 0.17 hrs, Volume= 0.008 af, Depth= 0.31"

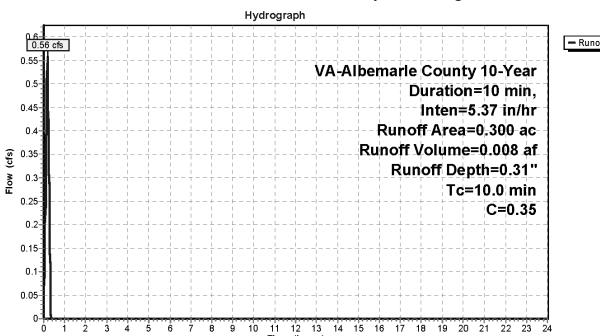
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs VA-Albemarle County 10-Year Duration=10 min, Inten=5.37 in/hr

	Area (ac)	С	Description	
·	0.300	0.35	Exisitng Structure & Drive	
			100 00% Pervious Area	

100.00% Pervious Area Tc Length Slope Velocity Capacity Description

#### Subcatchment 5S: Pre Developed Drainage

Direct Entry,



# **DESCRIPTION:**

THIS PROJECT AND SUBSEQUENT DISTURBANCE AREA OF 0.30 ACRES IS LOCATED 1001 & 1002 GROVE STREET IN CHARLOTTESVILLE. THE DISTURBED AREA CONTAINS A FEW MATURE TREES WHICH WILL BE ATTEMPTED TO SAVE, WHILE SOME MUST BE REMOVED, AS DEPICTED ON THE EXISTING CONDITIONS AND DEMOLITION PLAN. THESE PLANS PROPOSE 6 SINGLE FAMILY RESIDENTIAL UNITS, AND 11 DRIVEWAY SPACES, WHERE THE DRIVES ARE TO BE CONSTRUCTED UTILIZING PERVIOUS PAVERS AND THE ROOF LEADERS ARE TO FEED INTO BIO-RETENTION AREAS. THE DISTURBED AREA CONTAINS A FAIR COVER OF EXISTNG GRASS AND A SMALL CONCRETE WALL THAT WILL BE PARTIALLY REMOVED. MOST OF THE SLOPES WITHIN THE DISTURBED AREA ARE BETWEEN 5% AND 10%, BUT SOME STEEPER SLOPES ARE LOCATED ALONG THE EXISTING RIGHT OF WAY. SPECIAL ATTENTION SHALL BE PLACED UPON STABILIZATION OF THE FILL SLOPES ALONG THE PERIMETER. WHEN COMPLETED, THE PROPOSED RESIDENTIAL LOTS AND SINGLE FAMILY UNITS WILL PROVIDE AN ENHANCEMENT TO THESE DORMANT INFILL LOTS WHILE ALSO PROVIDING WATER QUALITY AND 10 YR PRE-POST DETENTION FOR THEIR POTENTIAL IMPACTS TO THE DOWNSTREAM RIVANNA WATERSHED.

THE SOIL TYPE PRESENT WITHIN THE DISTURBED AREA ONSITE CONSIST SOLELY OF CREEDMOOR FINE SANDY LOAM (8B). THESE SOIL TYPES ARE CONSIDERED MODERATELY WELL DRAINED, AND INCLUDE MODERATELY LOW TO LOW ABSORPTION RATES (Ksat) THE SLOPES WITHIN THE AREA OF LAND DISTURBANCE ARE LESS THAN 5%. THE GRADED AREAS OUTFALL TO MANMADE GRASS LINED CHANNEL, AND ULTIMATELY TO THE WETLANDS AND TRIBUTARIES WHICH CONNECT TO RIVANNA RIVER. BASED UPON ONSITE INFILTRATION TESTS TAKEN AT THE PROPOSED BIORETENTION AREA LOCATIONS, THE DESIGN INFILTRATION RATE OF 6.0 IN/HR SHALL BE UTILIZED, WHERE THE TESTING MEASURED RATES WERE OBSERVED FROM 6.1-8.25 IN/HR.

## **WATER QUALITY:**

THIS SITE IS LOCATED WITHIN THE RIVANNAH CREEK PORTION OF CHESAPEAKE BAY WATERSHED. THREE BIO-RETENTION BMP'S HAVE BEEN DESIGNED AND IMPLEMENTED TO ACCOUNT FOR THE STORM-WATER POLLUTANT REMOVAL AND DETENTION REQUIREMENTS. UTILIZING ROOF LEADERS AND PERVIOUS PAVERS TO REDUCE THE ASSOCIATED STORM-WATER IMPACTS, THE PRIVATELY MAINTAINED DRAINAGE SYSTEM WILL CONNECT INTO THE EXISTING INLET AT THE CORNER OF GROVE AND 10TH STREETS.

# **CONTINUED:**

**EROSION CONTROL MEASURES:** 

ALL OF THE CONSTRUCTION IMPROVEMENTS CAN EASILY CONTROL EROSION WITH A CONSTRUCTION ENTRANCE, SILT FENCE PROTECTION, AND INLET PROTECTION, AS SHOWN. GRADING OPERATIONS INVOLVE PREPARATION OF THE PAD SITES, INSTALLATION OF THE BIO-RETENTION AREAS, AND REMOVAL OF EXISTING TREES IN CONFLICT WITH THE PROPOSED LAYOUT.

grove road

grove road

0 0.72 cfs

Prepared by Hewlett-Packard Company

Area (ac) C Description

HvdroCAD® 10.00 s/n 08126 © 2013 HvdroCAD Software Solutions LLC

= 0.72 cfs @ 0.17 hrs, Volume=

VA-Albemarle County 10-Year Duration=10 min, Inten=5.37 in/hr

100.00% Pervious Area

Tc Length Slope Velocity Capacity Description

0.300 0.45 Townhouses, Drives & sidewalks

Prepared by Hewlett-Packard Company

Area (ac) C Description

HydroCAD® 10.00 s/n 08126 © 2013 HydroCAD Software Solutions LLC

= 0.55 cfs @ 0.17 hrs, Volume=

VA-Albemarle County 2-Year Duration=10 min, Inten=4.12 in/hr

0.300 0.45 Townhouses, Drives & sidewalks

(ft/ft) (ft/sec)

100.00% Pervious Area

Tc Length Slope Velocity Capacity Description

### **DRAINAGE:**

THE LAND DISTURBANCE WITH THIS PLAN IS VERY CONSOLIDATED, AND IS LOCATED WITHIN AN EXISTING RESIDENTIAL AREA. THE DRAINAGE WILL SHEET FLOW ACROSS THE CROWNED PAD SITES AND BE FILTERED BY THE SILT FENCE PRIOR TO EXITING THE SITE. THE PROPOSED DRAINAGE PATTERN SHALL REMAIN SIMILAR TO THE EXISTING AND OUTFALL TO THE ORIGINAL STORM SEWERED LOCATION. THE NET EFFECT TO THE WATERSHED OUTFALL LOCATIONS IS MINIMAL, PARTICULARLY SINCE THE PROPOSED IMPERVIOUSNESS WILL PRIMARILY BE CONTROLLED BY RAIN BARRELS AND CONNECTING BIO-RETENTION AREAS. SEE SUPPORTING HYDROLOGY AND COMPUTATIONS.

## STORMWATER RUN-OFF:

THE EXISTING PARCEL CONSISTS OF 0.30 ACRES, MOST OF WHICH IS COVERED BY MATURE GRASS AND A FEW LARGE TREES. THE EXISTING 2 YEAR RUNOFF FROM THIS SITE IS 0.43 cfs AND THE EXISTING 10 YEAR RUN-OFF FROM THIS SITE IS ABOUT 0.56 cfs. THE IMPROVEMENTS AND RUNOFF ARE BEING MANAGED SO THEY WILL NOT OFFER ANY SIGNIFICANT INCREASE TO THE CURRENT RUN-OFF SCENARIO OUT-FALLED BY THE EXISTING DROP INLET AND STORM SEWER SYSTEM. IN FACT, THERE WILL BE A SIGNIFICANT REDUCTION OF OF RUNOFF FROM THIS SITE TO THE

VA-Albemarle County 2-Year Duration=10 min, Inten=4.12 in/hr

0.008 af, Depth= 0.31"

VA-Albemarle County 2-Year

Duration=10 min.

Runoff Area=0.300 ac

Runoff Depth=0.31"

Runoff Volume=0.008 af

VA-Albemarle County 10-Year Duration=10 min, Inten=5.37 in/hr

0.010 af, Depth= 0.40"

VA-Albemarle County 10-Year

Duration=10 min.

Runoff Area=0.300 ac

Runoff Depth=0.40"

Runoff Volume=0.010 af

Inten≑5.37 in/hı

Tc=10.0 min

C=0.45

Inten=4.12 in/hi

Tc=10.0 min

C=0.45

Printed 3/26/2014

Runoff

Summary for Subcatchment 1S: Post Developed Drainage

Direct Entry,

Subcatchment 1S: Post Developed Drainage

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 Time (hours)

Summary for Subcatchment 1S: Post Developed Drainage

Subcatchment 1S: Post Developed Drainage

Hydrograph

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Hydrograph

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Printed 3/26/2014

# ADJACENT AREAS:

CONTINUED:

THE SITE IS CURRENTLY SURROUNDED BY RESIDENTIAL LOTS CONTAINING GRASS AND LARGE, MATURE TREE GROWTH. ANY CONTRIBUTING DRAINAGE AREAS, THAT ARE UNDISTURBED, MUST BE DIVERTED, AS NECESSARY, TO PREVENT THE INTRODUCTION OF OFFSITE DRAINAGE TO THE NEWLY DISTURBED AREA. PERIMETER EROSION CONTROL MEASURESMUST BE PROPERLY MAINTAINED TO PREVENT UNINTENDED IMPACTS TO ANY OFFSITE AREAS, AND PREVENT ANY SEDIMENT LADEN WATER FROM ENTERING THE OFFSITE WATERSHED.

#### MAINTAINANCE:

THE EROSION CONTROL MEASURES SHALL BE INSPECTED AT EACH SIGNIFICANT RAINFALL EVENT OR BI-WEEKLY AT A MINIMUM TO ENSURE PROPER FUNCTIONALITY OF THE EROSION CONTROL

# Christopher C. Mulligan 031672

### **EROSION AND SEDIMENT CONTROL** MINIMUM STANDARDS

1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. CONTRACTOR SHALL ESTABLISH A STABILIZED SITE, AND NOT ALLOW ANY EROSION OR SEDIMENT TO

2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT

THERE ARE NO SOIL STOCKPILES TO BE LOCATED ONSITE. ALL EXCESS MATERIAL TO BE HAULED TO

AN APPROVED SITE WITH ADEQUATE EROSION CONTROL PROTECTION. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION

CONTRACTOR SHALL ESTABLISH A VEGETATIVE COVER ON ALL DENUDED AREAS. 4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE

TAKES PLACE. SILT FENCE IS LOCATED TO ACCEPT AND PROTECT THE ENTIRE DENUDED AREA FROM CONVEYING

5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES

AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AFTER EACH RAINFALL EVENT. 6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON

THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN DIVERT ALL OF THE UN-DISTURBED AREAS FROM ENTERING THE CONSTRUCTION AREA..

A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE (3.0) ACRES. SEE SIZING TABLE FOR DIMENSIONS

B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A TWENTY-FIVE YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED. THERE ARE NO SEDIMENT TRAPS OR BASINS PROPOSED

7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED

THERE ARE NO CRITICAL AREAS ONSITE. 8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE. RUN-OFF WILL BE REMAIN IN A SHEETFLOW PATTERN AND SHOULD NOT CONCENTRATE.

9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

THERE ARE NO CRITICAL AREAS ONSITE. 10. ALL STORM SEWER INLETS THAT ARE MADE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

THERE ARE NO CRITICAL AREAS ONSITE. 11. BEFORE NEWLY CONSTRUCTED STORM WATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING

CHANNEL. THERE AREA NO CRITICAL AREAS ONSITE. 12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NON-ERODIBLE MATERIAL SHALL BE

FOR THESE STRUCTURES IF ARMORED BY NON-ERODIBLE COVER MATERIALS. THERE ARE NO CRITICAL AREAS ONSITE. 13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF

USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED

NON-ERODIBLE MATERIAL SHALL BE PROVIDED. THERE ARE NO CRITICAL AREAS ONSITE 14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR

CROSSING LIVE WATERCOURSES SHALL BE MET. THERE ARE NO CRITICAL AREAS ONSITE. 15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN

THE WATERCOURSE IS COMPLETED. THERE ARE NO CRITICAL AREAS ONSITE

16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.

B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY

D. MATERIAL USED FOR BACK FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.

F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH. THIS APPLIES TO ALL UTILITY INSTALLATION OPERATIONS INCLUDING WATER, SEWER, POWER, CABLE OR

17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES

CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ADJACENT ROADS CLEAN FROM SOIL BUILD-UP. 18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

CONTRACTOR SHALL STABILIZE SITE, AND OBTAIN INSPECTOR APPROVAL PRIOR TO REMOVING ANY EROSION CONTROL MEASURES.

19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORM WATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:

ALL CONCENTRATED RUN-OFF IS TO SHEETFLOW AND IS DIRECTED TO AN EXISTING STORM SEWER A. CONCENTRATED STORM WATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED

DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.

ALL RUNOFF IS CONVEYED TO THE BIORETENTION AREA, DRAINS INTO THE CONVEYANCE CHANNEL AND KINTO THE EXISTING STORM SEWER SYSTEM. B. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:

(1) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR

(a) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORM WATER WILL NOT OVERTOP THE CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS;

THE CHANGES IN RUN-OFF ASSOCIATED WITH THE DEVELOPMENT ARE QUANTIFIED IN THE HYDROLOGIC ANALYSIS AND SUMMARIZED IN THE NARRATIVE. WITH IMPLEMENTATION OF RAIN BARRELS AND BIORETENTION AREAS CHANGES ARE MINIMAL TO THE OVERALL SITE HYDROLOGY.



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**REVISIONS** 

DATE **APRIL 16, 2014** 

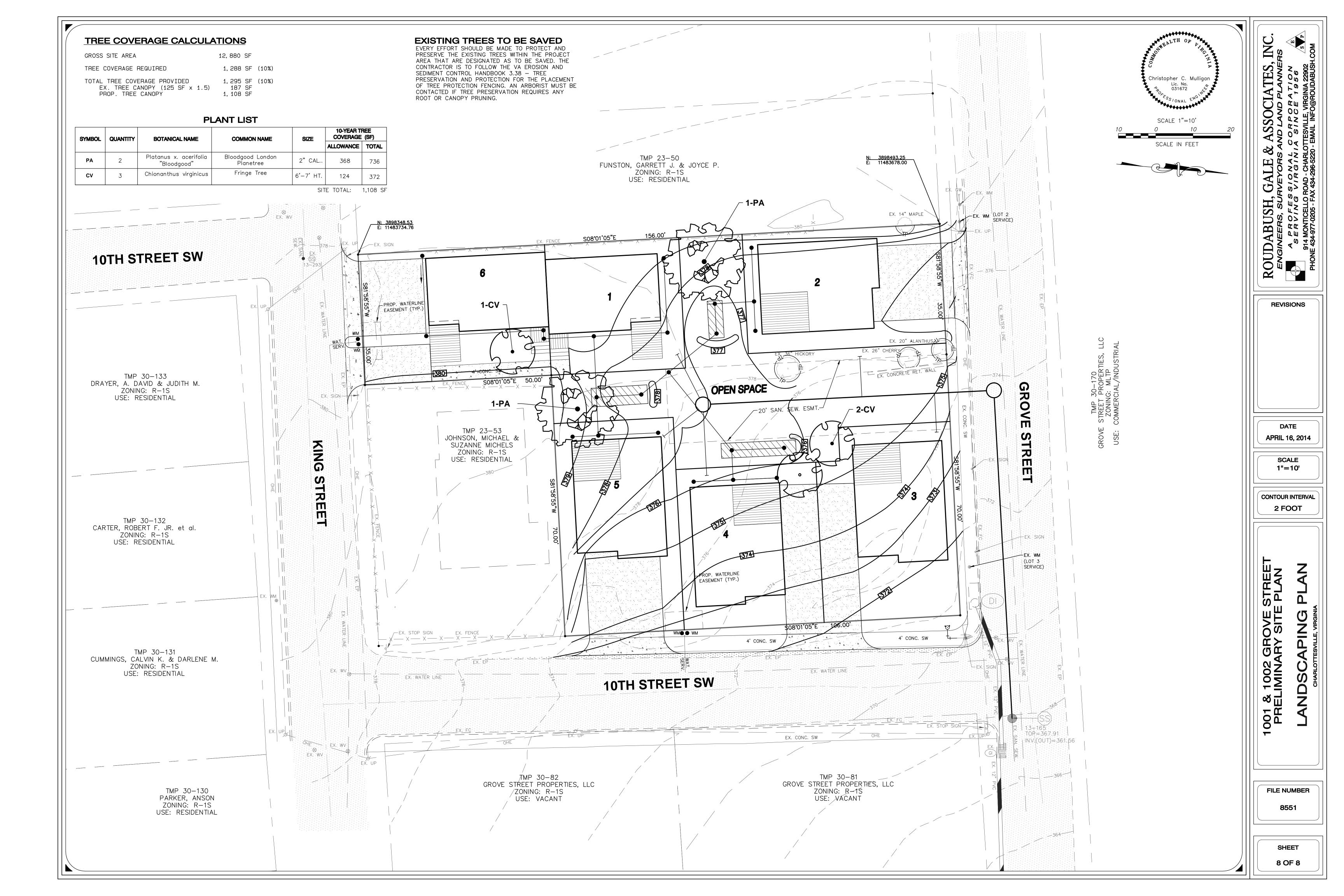
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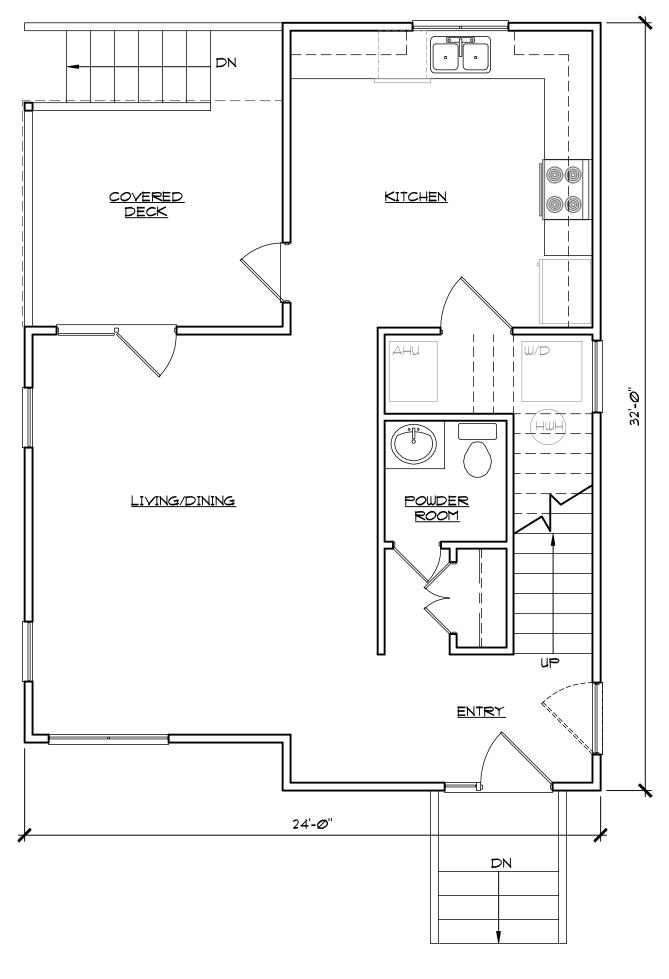
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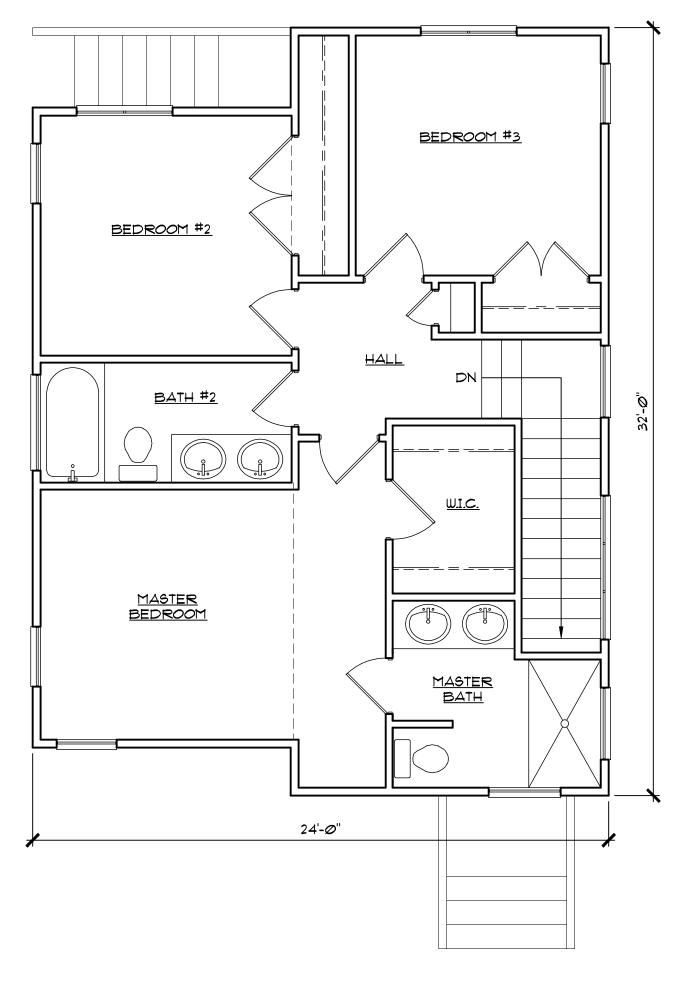
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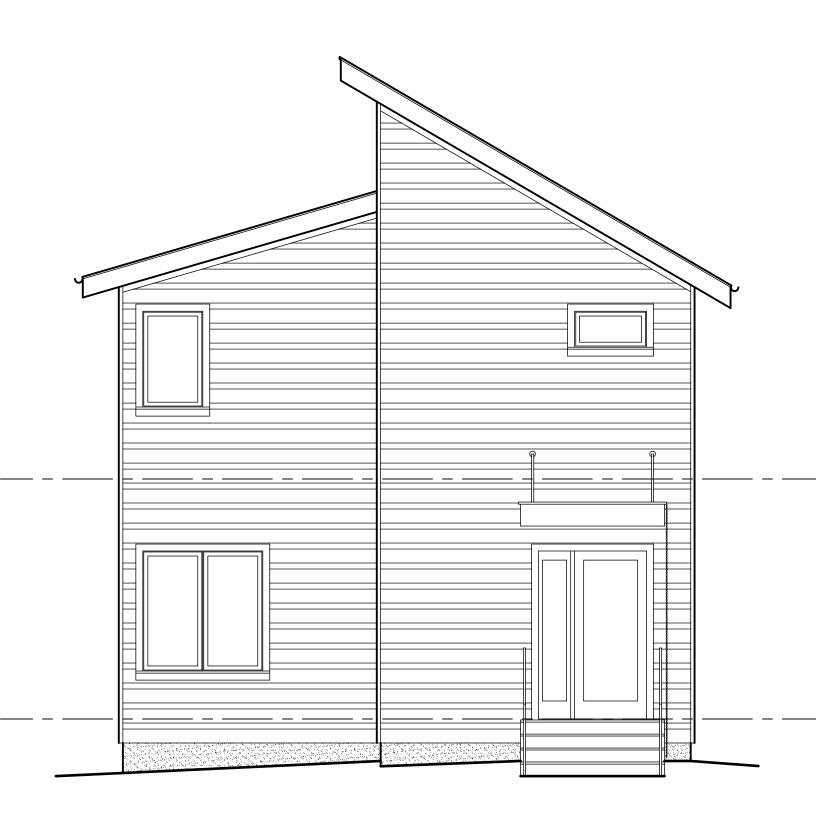
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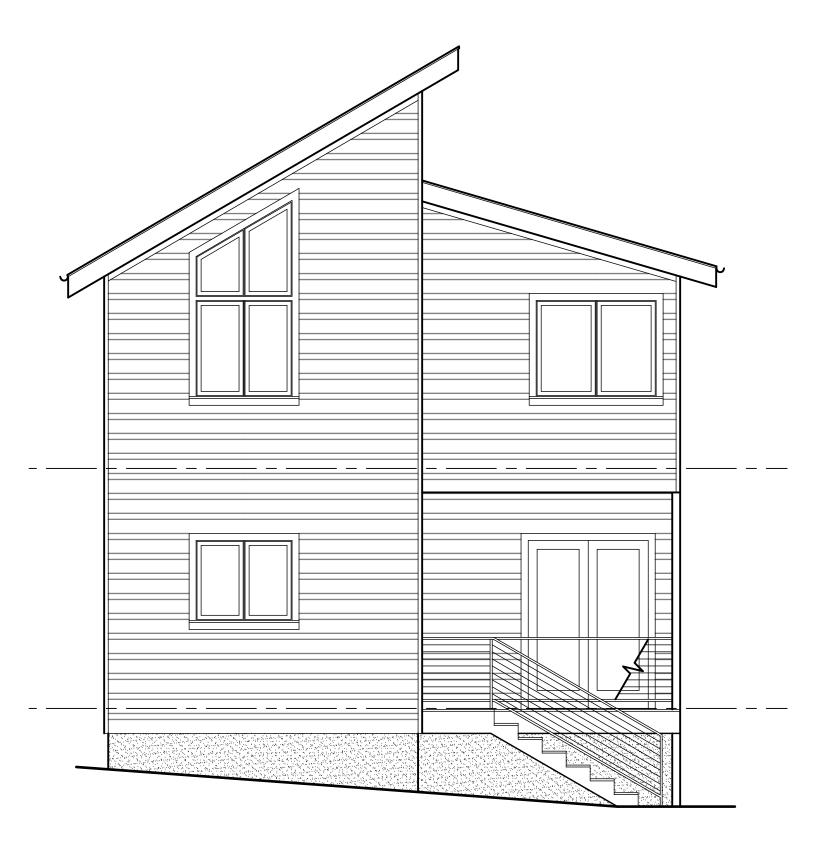




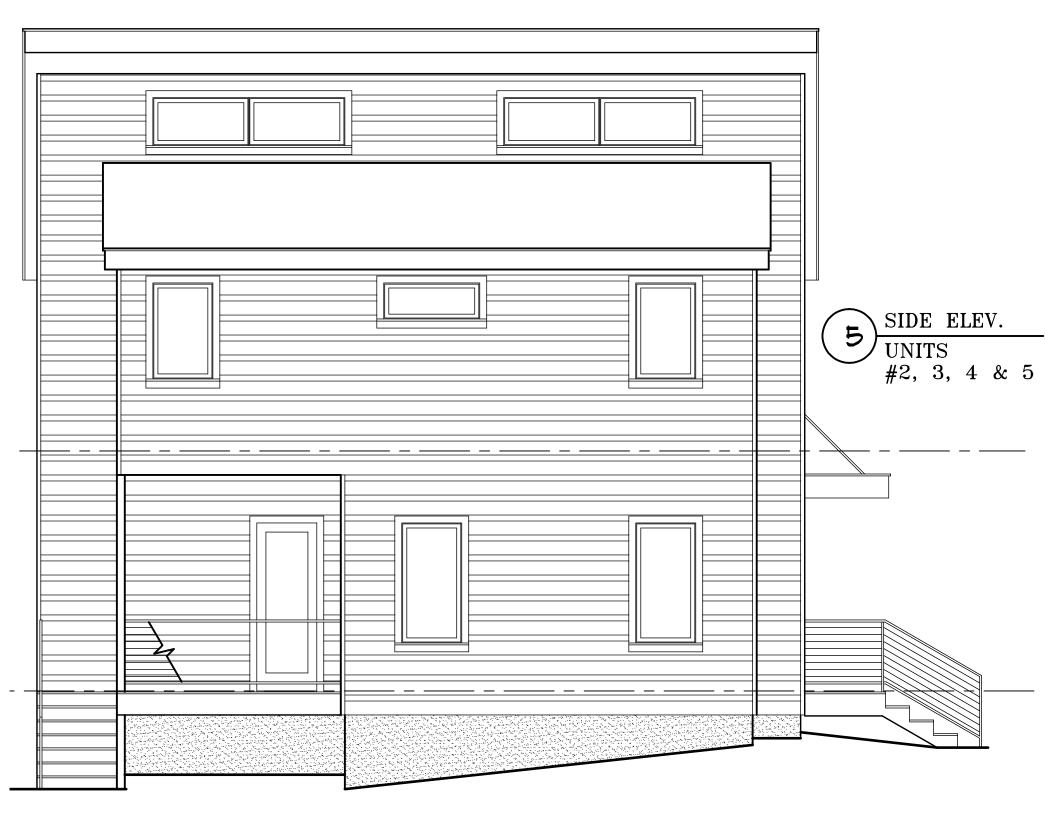
UPPER FLOOR PLAN
7|| 6f
UNITS #2, 3, 4 & 5

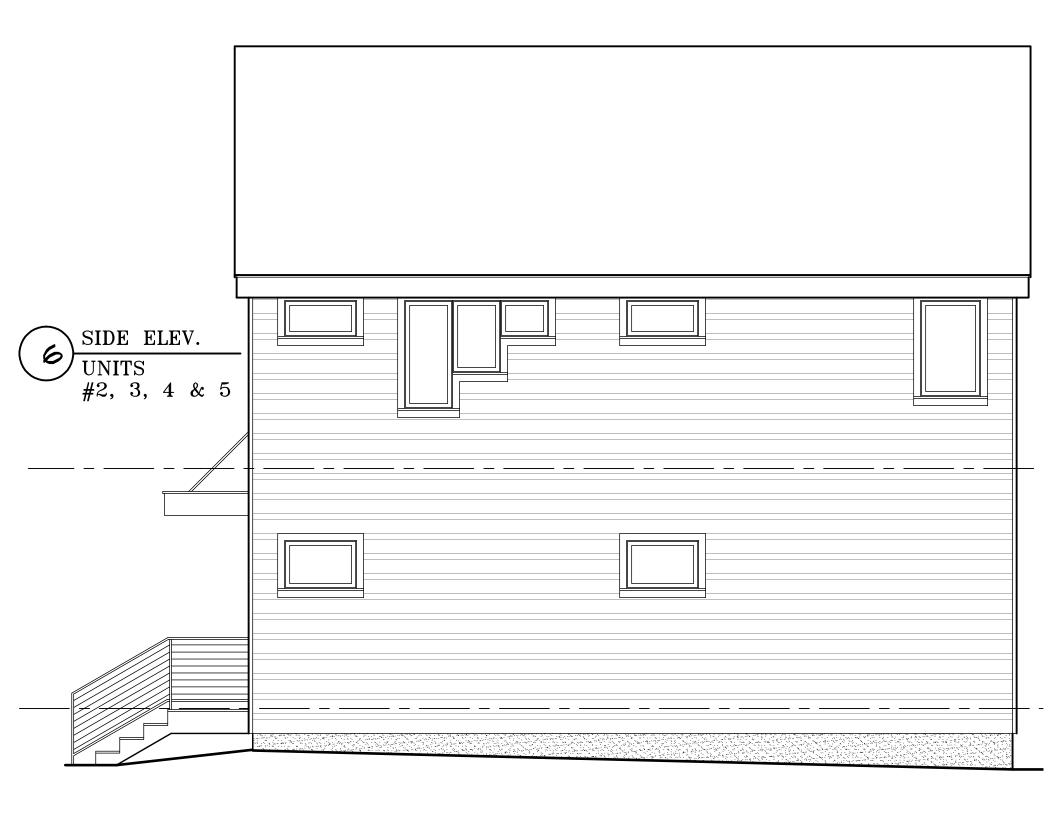


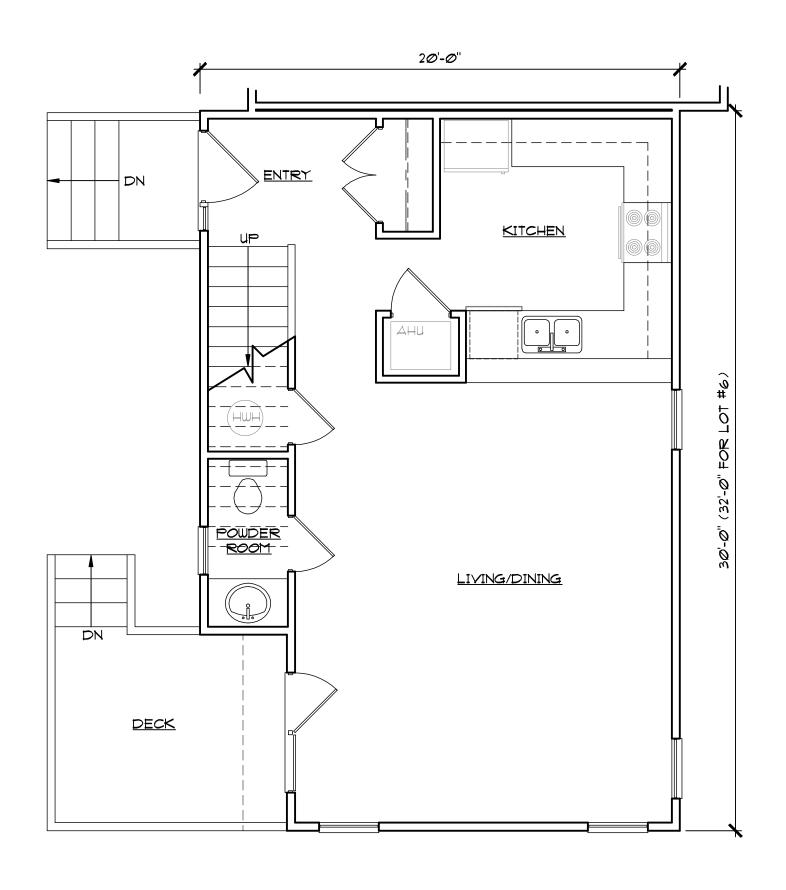
FRONT ELEVATION
UNITS #2, 3, 4 & 5



REAR ELEVATION (COURTYARD)
UNITS #2, 3, 4 & 5



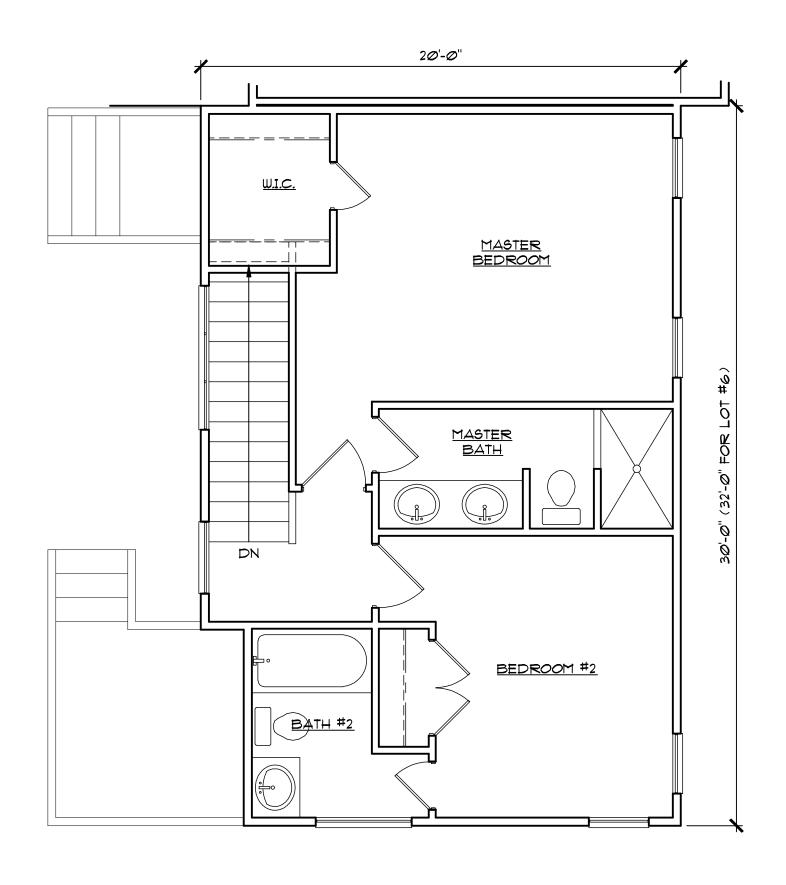




MAIN FLOOR PLAN

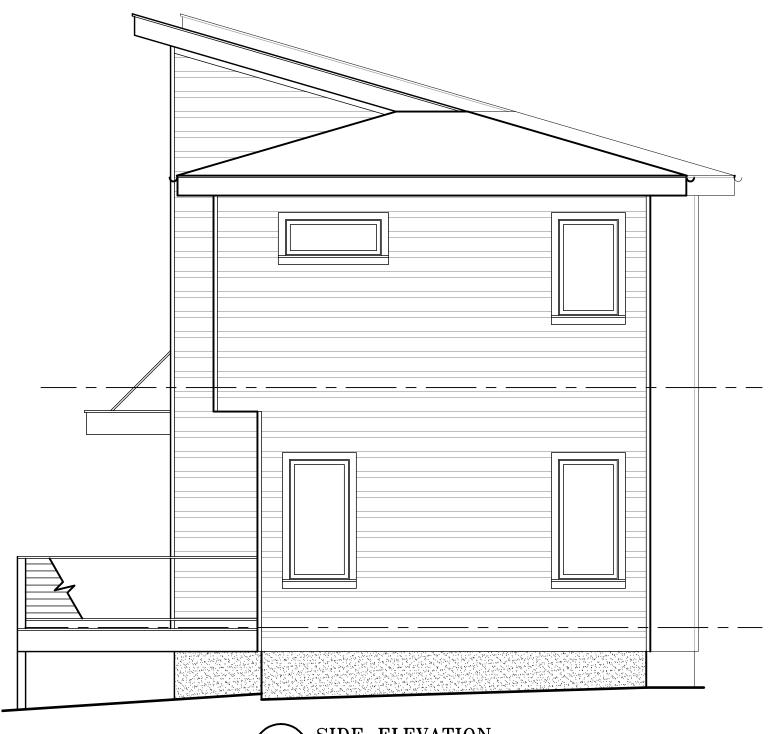
570 sf

UNIT #1 (#6 SIM.)



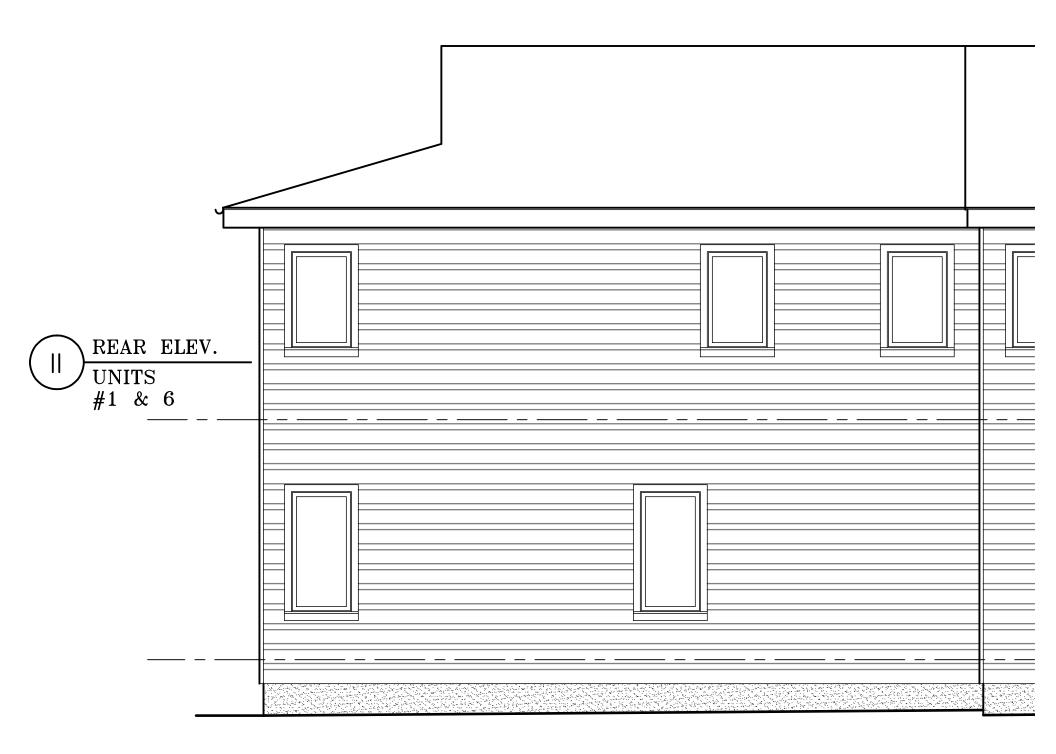
UPPER FLOOR PLAN

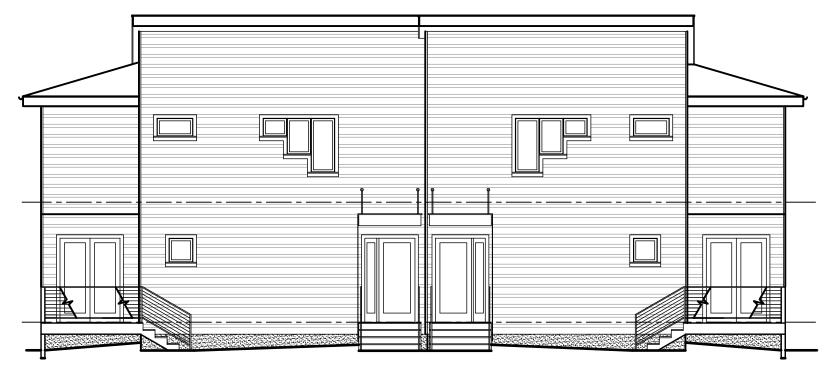
UNIT #1 (#6 SIM.)



SIDE ELEVATION
UNIT #1 (#6 SIM.)







FRONT ELEVATION (1/8" =1'-0")
UNITS #1 & #6



REAR ELEVATION (1/8" =1'-0")
UNITS #1 & #6