

Falling Green  
# 23157

2011 HAWP



## HISTORIC PRESERVATION COMMISSION

Isiah Leggett  
County Executive

Thomas Jester  
Chairperson

Date: 2/10/11

### MEMORANDUM

TO: Carla Reid, Director  
Department of Permitting Services

FROM: Anne Fothergill *AF*  
Planner Coordinator  
Historic Preservation Section-Planning Department  
Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit #557967—addition and alterations to building

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The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP) and this application was **approved** by the HPC on February 9, 2011.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: Olney Boys and Girls Community Sports Association  
Address: 4501 Olney-Laytonsville Road, Olney

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once the work is completed the applicant will contact the staff person assigned to this application at 301-563-3400 to schedule a follow-up site visit.





RETURN TO DEPARTMENT OF PERMITTING SERVICES  
255 ROCKVILLE PIKE 2ND FLOOR ROCKVILLE MD 20850  
240-771-1377

DPS - #8

**HISTORIC PRESERVATION COMMISSION**  
**301/563-3400**

**APPLICATION FOR**  
**HISTORIC AREA WORK PERMIT**

Contact Person: Kathy Lyons  
Daytime Phone No.: 301-570-5577

Tax Account No.: 31047658

Name of Property Owner: Olney Boys and Girls Daytime Phone No.: 301-570-7049  
Address: PO Box 2 Community Sports Association MD 20830  
Street Number City State Zip Code

Contractor: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Contractor Registration No.: \_\_\_\_\_

Agent for Owner: Craig Moloney, AIA, CEM Design Daytime Phone No.: 301-294-0682

**LOCATION OF BUILDING/PREMISE**

House Number: 4501 Street: Olney Laytonsville Road  
Town/City: Olney Nearest Cross Street: Olney Mill Road  
Lot: 5 Block: \_\_\_\_\_ Subdivision: Brooke Farms  
Liber: \_\_\_\_\_ Folio: \_\_\_\_\_ Parcel: \_\_\_\_\_

**PART ONE: TYPE OF PERMIT ACTION AND USE**

- 1A. CHECK ALL APPLICABLE:
- |                                    |   |  |  |                                    |   |   |                               |                               |
|------------------------------------|---|--|--|------------------------------------|---|---|-------------------------------|-------------------------------|
| <input type="checkbox"/> Construct | <input checked="" type="checkbox"/> Extend  | <input checked="" type="checkbox"/> Alter/Renovate | <input checked="" type="checkbox"/> AC                   | <input type="checkbox"/> Slab      | <input checked="" type="checkbox"/> Room Addition | <input checked="" type="checkbox"/> Porch | <input type="checkbox"/> Deck | <input type="checkbox"/> Shed |
| <input type="checkbox"/> Move      | <input checked="" type="checkbox"/> Install | <input type="checkbox"/> Wreck/Raze                | <input type="checkbox"/> Solar                           | <input type="checkbox"/> Fireplace | <input type="checkbox"/> Woodburning Stove        | <input type="checkbox"/> Single Family    |                               |                               |
| <input type="checkbox"/> Revision  | <input checked="" type="checkbox"/> Repair  | <input type="checkbox"/> Revocable                 | <input type="checkbox"/> Fence/Wall (complete Section 4) |                                    | <input type="checkbox"/> Other: _____             |   |                               |                               |
- 1B. Construction cost estimate: \$ 250,000-300,000; Renovation of Main House \$ 600,000-900,000.
- 1C. If this is a revision of a previously approved active permit, see Permit # 208287, 266785 23/57-00A, 379107

**PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTEND/ADDITIONS**

- 2A. Type of sewage disposal: 01  WSSC 02  Septic 03  Other: \_\_\_\_\_
- 2B. Type of water supply: 01  WSSC 02  Well 03  Other: \_\_\_\_\_

**PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL**

- 3A. Height \_\_\_\_\_ feet \_\_\_\_\_ inches
- 3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:
- On party line/property line  Entirely on land of owner  On public right of way/easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

[Signature] \_\_\_\_\_ Date: 1/4/11  
Signature of owner or authorized agent

Approved: [Signature] \_\_\_\_\_  
Chairperson, Historic Preservation Commission

Disapproved: \_\_\_\_\_ Date: 2/10/11  
Signature

Application/Permit No.: 557967 Date Filed: \_\_\_\_\_ Date Issued: \_\_\_\_\_

**SEE REVERSE SIDE FOR INSTRUCTIONS**

# CEM DESIGN

520 Anderson Avenue, Rockville, MD 20850, 301-294-0682

December 4, 2012

Anne Fothergill  
Historic Preservation Section-Planning Department  
Maryland-National Capital Park & Planning Commission  
8787 Georgia Avenue  
Silver Spring, MD 20910

Re: Restoration and Addition to Falling Green Manor House  
4501 Olney-Laytonsville Road, Olney, MD

Dear Ms. Fothergill,

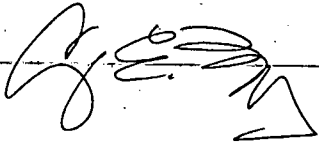
Built as a residence in the 1760's, Falling Green is a locally important property with an unparalleled degree of fabric integrity, both interior and exterior. The current owner, Olney Boys and Girls Community Sports Association (OBGC), has applied for a permit to restore the original building and build an addition to the rear. The first floor of the original building will be used as offices for OBGC. The addition will house the required restrooms, kitchen, new systems, and access to the second floor caretaker's apartment. One of the bedrooms on the second floor of the original building will be used as a living room for the caretaker's apartment, which is fire-separated from the balance of the original building. This work was approved by the Maryland Historic Trust Easement Committee and the Montgomery County Historic Preservation Commission.

In a pre-submission meeting with the Montgomery County Department of Permitting Services, it was agreed that the building could be re-used for business and residential use under certain conditions. One of those conditions is that the second floor of the existing building could not be permanently occupied by the business use, which precludes the need to rebuild the original stairs and rails to current code standards, eliminates the need to build a fire-separating wall in the foyer around the stairs, or to create a new door in the original masonry wall at the second floor level and build a new exterior fire exit stair. Neither the basement nor the attic is occupiable, and both will remain unfinished.

A second condition is that the building occupancy be limited to no more than 25-people, and that it be equipped throughout with an interconnected fire and smoke detection and alarm system with a battery backup. We were told these two provisions, and the support of the Easement Committee and the HPC, will preclude the need for a sprinkler system. Installation of an exposed sprinkler system will visually detract from the experience of the original building. Installation of a hidden sprinkler system will destroy the intact original goat-hair plaster on hand-split wood lath and wood trim, and may impair the integrity of the floor structural system. As the plans detail, the building has three means of egress from the business use on the first floor of the original building, one of which is accessible, and a fourth means of egress from the business use in the new addition, which is also accessible. We have provided the code required fire separation between uses.

The construction documents have been modified to comply with the Department of Permitting Services (DPS) requisite provisions as discussed above. The DPS suggested that we request a letter from the MHT Easement Committee and the HPC confirming the desire of each institution to preserve the integrity of this historic resource, and providing support for our approach to its restoration and re-use. We would appreciate if you could generate such a letter for OBGC. Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'Craig Moloney', is written over a horizontal line that spans the width of the page.

Craig Moloney, AIA, LEED AP  
CEM Design

## Fothergill, Anne

---

**From:** Fothergill, Anne  
**Sent:** Monday, February 13, 2012 3:52 PM  
**To:** kmhlyons@aol.com  
**Cc:** OBGDEAL@aol.com  
**Subject:** RE: Civil Engineering Plans - Falling Green

The changes are consistent with the approved Historic Area Work Permit and do not need further review by our office or the HPC. You are all set to move forward. thanks, Anne \_\_\_\_\_

**From:** [kmhlyons@aol.com](mailto:kmhlyons@aol.com) [[kmhlyons@aol.com](mailto:kmhlyons@aol.com)]  
**Sent:** Friday, February 10, 2012 12:48 PM  
**To:** Fothergill, Anne  
**Cc:** [OBGCDEAL@aol.com](mailto:OBGCDEAL@aol.com)  
**Subject:** Civil Engineering Plans - Falling Green

Anne,

Hello, Elisabeth asked me to follow up with you on questions regarding OBGC's submission of civil engineering plans for Falling Green. I tried to reach you by phone, but must have hit lunch time as no one picked up the main number. To address your question from your email below regarding exterior changes; there will be no modifications to Craig's plans for the house, but in addition to the areas addressed in his plans, there will be excavation for a main plumbing/electrical line over the front lawn, the parking lot has had to be modified slightly and rain gardens have been added to meet county requirements and the geothermal wells will have plates/caps on them. There will be no fencing or other structural changes to the exterior other than those identified in CEM's plans. MHT required approval due to ground disturbance on easement property. I checked with Scott to ascertain whether HPC also needed to approve and he had thought you did, so we sent in the application. If we can include this civil engineering work under the previously approved HAWP, that would be wonderful. We just want to make sure nothing slips through the cracks as we prepare for construction.

By the way, should these plans have to have separate approval, will we need a representative from OBGC and/or the civil engineer to attend the February 22 meeting?

Thank you for your attention to this matter, Kathy Lyons

-Original Message-----

**From:** Fothergill, Anne  
<[Anne.Fothergill@montgomeryplanning.org](mailto:Anne.Fothergill@montgomeryplanning.org)<<mailto:Anne.Fothergill@montgomeryplanning.org>>>  
**To:** CEM Design <[cemdesign@mindspring.com](mailto:cemdesign@mindspring.com)<<mailto:cemdesign@mindspring.com>>>; [obgcdeal@obgcdeal@aol.com](mailto:obgcdeal@obgcdeal@aol.com)<<mailto:obgcdeal@obgcdeal@aol.com>>>  
**Sent:** Thu, Feb 9, 2012 1:56 pm  
**Subject:** RE: Falling Green Review permit 557987

I received your packet and am thinking this may not need a new HAWP. In January 2011 the parking spaces were approved by the HPC. What other exterior changes are shown in this plan? Does the geothermal well have a wall around it or anything above ground? Please advise so I can understand what exactly has changed from the last review. Thanks, Anne



HISTORIC PRESERVATION COMMISSION  
301/563-3400

# APPLICATION FOR HISTORIC AREA WORK PERMIT

Contact Email: obcc.Deal @ AOL.com Contact Person: Elisabeth Deal  
Daytime Phone No.: 301-570-7049

Tax Account No.: 23-7608610

Name of Property Owner: Olney Boys + Girls Comm Sports (0860) Daytime Phone No.: 301-570-7049

Address: PO BOX 2 Olney MD 20830  
Street Number City State Zip Code

Contractor: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Contractor Registration No.: \_\_\_\_\_

Agent for Owner: Craig Moloney, AIA, CEM Design Daytime Phone No.: 301-294-0682

**LOCATION OF BUILDING/PREMISE**

House Number: 4501 Street: Olney-Laytonsville Rd  
Town/City: Olney Nearest Cross Street: Olney Mill Rd  
Lot: \_\_\_\_\_ Block: \_\_\_\_\_ Subdivision: \_\_\_\_\_  
Liber: \_\_\_\_\_ Folio: \_\_\_\_\_ Parcel: \_\_\_\_\_

**PART ONE: TYPE OF PERMIT ACTION AND USE**

- 1A. CHECK ALL APPLICABLE:
- |                                    |                                  |  |  |  |  |  |                               |                               |
|------------------------------------|----------------------------------|--|--|--|--|--|-------------------------------|-------------------------------|
| <input type="checkbox"/> Construct | <input type="checkbox"/> Extend  | <input checked="" type="checkbox"/> Alter/Renovate | <input type="checkbox"/> A/C                             | <input type="checkbox"/> Slab                            | <input type="checkbox"/> Room Addition     | <input type="checkbox"/> Porch         | <input type="checkbox"/> Deck | <input type="checkbox"/> Shed |
| <input type="checkbox"/> Move      | <input type="checkbox"/> Install | <input type="checkbox"/> Wreck/Raze                | <input type="checkbox"/> Solar                           | <input type="checkbox"/> Fireplace                       | <input type="checkbox"/> Woodburning Stove | <input type="checkbox"/> Single Family |                               |                               |
| <input type="checkbox"/> Revision  | <input type="checkbox"/> Repair  | <input type="checkbox"/> Revocable                 | <input type="checkbox"/> Fence/Wall (complete Section 4) | <input type="checkbox"/> Other: <u>Civil Engineering</u> |  |  |                               |                               |

1B. Construction cost estimate: \$ \_\_\_\_\_

1C. If this is a revision of a previously approved active permit, see Permit # #557967

**PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTEND/ADDITIONS**

- 2A. Type of sewage disposal: 01  WSSC 02  Septic 03  Other: \_\_\_\_\_
- 2B. Type of water supply: 01  WSSC 02  Well 03  Other: \_\_\_\_\_

**PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL**

- 3A. Height \_\_\_\_\_ feet \_\_\_\_\_ inches
- 3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:
- On party line/property line  Entirely on land of owner  On public right of way/easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

[Signature] \_\_\_\_\_ 2/6/12 \_\_\_\_\_  
Signature of owner or authorized agent Date

Approved: \_\_\_\_\_ For Chairperson, Historic Preservation Commission

Disapproved: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Application/Permit No.: \_\_\_\_\_ Date Filed: \_\_\_\_\_ Date Issued: \_\_\_\_\_

SEE REVERSE SIDE FOR INSTRUCTIONS

APPLICANT'S NAME: \_\_\_\_\_ DATE: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

2. Number of copies of application: \_\_\_\_\_  
\_\_\_\_\_

3. This form is to be filled out by the applicant and should be submitted with the application fee and the required photographs.

4. I am applying for membership in the \_\_\_\_\_  
\_\_\_\_\_

**APPLICANT'S INFORMATION**

5. I am applying for membership in the \_\_\_\_\_  
\_\_\_\_\_

**APPLICANT'S INFORMATION**

6. I am applying for membership in the \_\_\_\_\_  
\_\_\_\_\_

7. I am applying for membership in the \_\_\_\_\_  
\_\_\_\_\_

**APPLICANT'S INFORMATION**

8. I am applying for membership in the \_\_\_\_\_  
\_\_\_\_\_

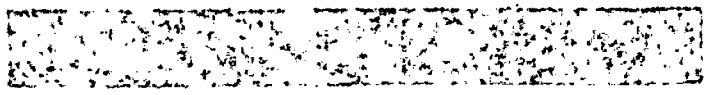
**APPLICANT'S INFORMATION**

9. I am applying for membership in the \_\_\_\_\_  
\_\_\_\_\_

**HISTORIC NEW YORK BEER AND  
BREWERY FOUNDATION**

300-991-1000

HISTORIC PRESERVATION COMMISSION





**THE FOLLOWING ITEMS MUST BE COMPLETED AND THE REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.**

**1. WRITTEN DESCRIPTION OF PROJECT**

a. Description of existing structure(s) and environmental setting, including their historical features and significance.

See "Belling Green Rehabilitation Recommendations" dated 6/13/03 on file.

b. General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district.

**2. SITE PLAN**

Site and environmental setting, drawn to scale. You may use your plot. Your site plan must include:

a. the scale, north arrow, and date;

b. dimensions of all existing and proposed structures; and

c. site features such as walkways, driveways, fences, ponds, streams, trash dumpsters, mechanical equipment, and landscaping.

**3. PLANS AND ELEVATIONS**

You must submit 2 copies of plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" paper are preferred.

a. Schematic construction plans, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.

b. Elevations (facades), with marked dimensions, clearly indicating proposed work in relation to existing construction and, when appropriate, context. All materials and fixtures proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

**4. MATERIALS SPECIFICATIONS**

General description of materials and manufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

**5. PHOTOGRAPHS**

a. Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.

b. Clearly label photographic prints of the resource as viewed from the public right-of-way and of the adjoining properties. All labels should be placed on the front of photographs.

**6. TREE SURVEY**

If you are proposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree of at least that dimension.

**7. ADDRESSES OF ADJACENT AND CONFRONTING PROPERTY OWNERS**

For all projects, provide an accurate list of adjacent and confronting property owners (not tenants), including names, addresses, and zip codes. This list should include the owners of all lots or parcels which adjoin the parcel in question, as well as the owner(s) of lot(s) or parcel(s) which lie directly across the street/highway from the parcel in question. You can obtain this information from the Department of Assessments and Taxation, 51 Monroe Street, Rockville, (301/279-1355).

PLEASE PRINT (IN BLUE OR BLACK INK) OR TYPE THIS INFORMATION ON THE FOLLOWING PAGE.  
PLEASE STAY WITHIN THE GUIDES OF THE TEMPLATE, AS THIS WILL BE PHOTOCOPIED DIRECTLY ONTO MAILING LABELS.



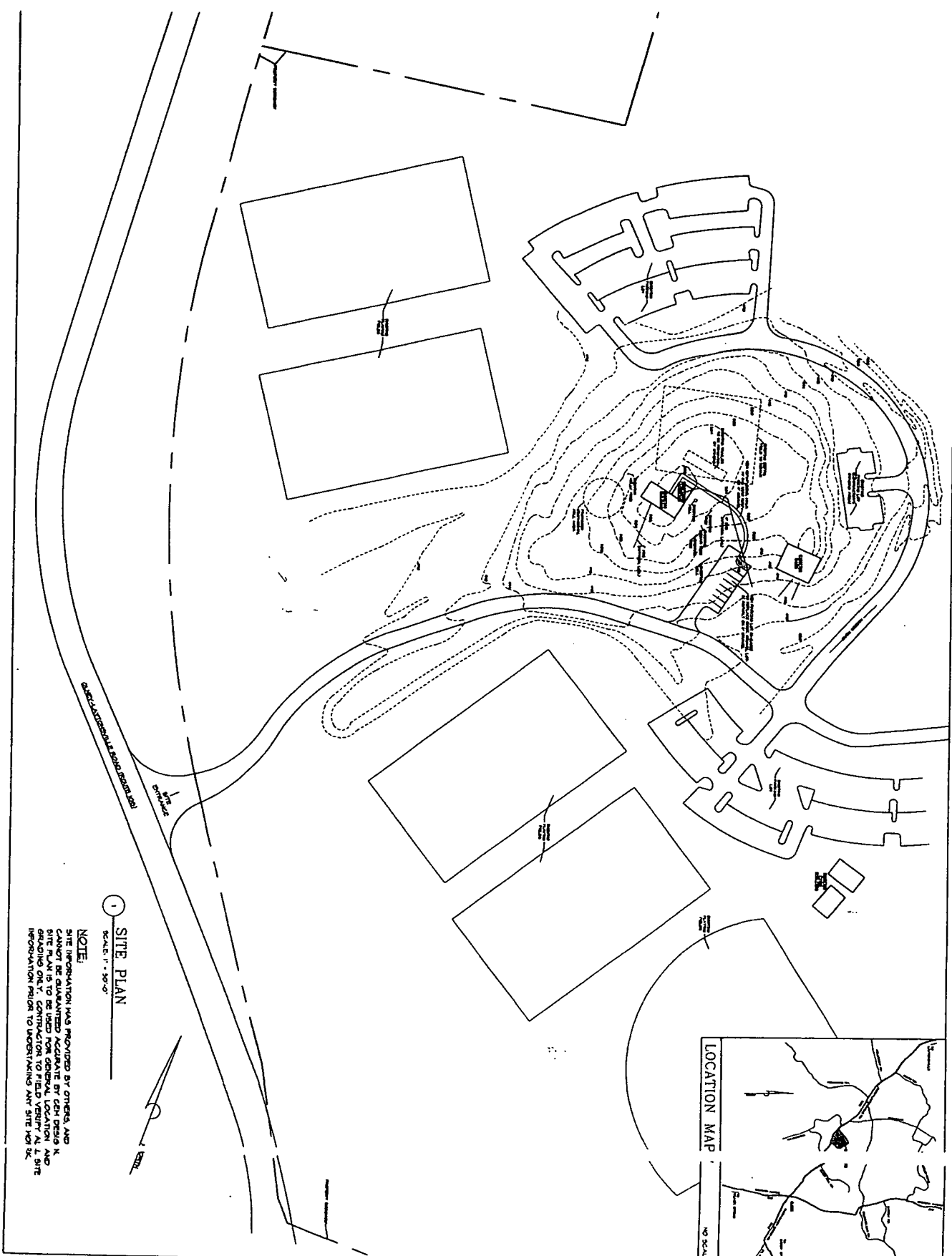
**HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFYING**  
**[Owner, Owner's Agent, Adjacent and Confronting Property Owners]**

*HPC Staff has information on addresses.*

<b>Owner's mailing address</b>	<b>Owner's Agent's mailing address</b>
<b>Adjacent and confronting Property Owners mailing addresses</b>	

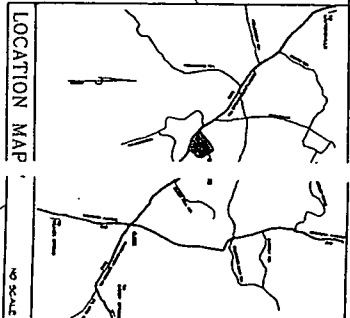
[OWNER, OWNER'S AGENT ADDRESS AND CORRESPONDING PROPERTY OWNERS] <b>HUMB APPLICATION: MORTGAGE ADDRESSES FOR MORTGAGE</b>	
OWNER'S MORTGAGE ADDRESS	OWNER'S AGENT'S MORTGAGE ADDRESS
[OWNER, OWNER'S AGENT ADDRESS AND CORRESPONDING PROPERTY OWNERS] <b>HUMB APPLICATION: MORTGAGE ADDRESSES FOR MORTGAGE</b>	

7.



1 SITE PLAN  
SCALE: 1" = 300'

**NOTE**  
SITE INFORMATION WAS PROVIDED BY OTHERS, AND CANNOT BE GUARANTEED ACCURATE BY CEM DESIGN. THIS SITE PLAN IS TO BE USED FOR GENERAL LOCATION AND INFORMATION PURPOSES TO IDENTIFY THE SITE FOR USE.



SP.1.1  
SHEET 1 OF 1

NO.	DATE	DESCRIPTION	BY	CHECKED
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

**Falling Green**  
Restoration and Addition  
4501 Olney-Laytonville Road, Olney, MD 20832

**CEM DESIGN**  
CORPORATION  
10000 WOODBURN ROAD  
SUIT 100  
DALLAS, TEXAS 75243  
TEL: (214) 343-1111  
FAX: (214) 343-1112  
WWW.CEMDESIGN.COM



*Maryland Department of Planning  
Maryland Historical Trust*

*Martin O'Malley  
Governor  
Anthony G. Brown  
Lt. Governor*

*Richard Eberhart Ha  
Secretary  
Matthew J. Power  
Deputy Secretary*

October 12, 2011

Elisabeth Deal  
Executive Director, Olney Boys & Girls  
P.O. Box 2  
Olney, Maryland 20830

Re: Falling Green, Montgomery County – Change/Alteration  
Maryland Historical Trust Preservation Easement

Dear Ms. Deal:

The Maryland Historical Trust (MHT) is in receipt of your application, dated September 27, 2011, requesting approval of the Civil Engineering Plans and scope of archeology as it relates to the new proposed geothermal well, asphalt parking lot, concrete sidewalks, rain gardens, and new water and sewer locations. The MHT Easement Committee (Committee) reviewed the application at its meeting on October 4, 2011.

Based upon the review and recommendation of the Committee, I approve of the Civil Engineering plans and scope of archeology as it relates to the new proposed geothermal well, asphalt parking lot, concrete sidewalk, rain gardens and new water and sewer locations conditioned upon compliance with the enclosed comments by Dr. Charlie Hall. This work is consistent with The Secretary of the Interior's *Standards for the Treatment of Historic Properties, General Rehabilitation Standard 8*.

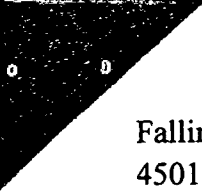
Approval is valid for a period of six months from the date of this letter. Should you require additional time to complete the work, make any changes to the scope of work as approved, or have any questions regarding this letter, please contact Amy Skinner, Easement Administrator, at (410) 514-7632 or by email at [askinner@mdp.state.md.us](mailto:askinner@mdp.state.md.us).

Sincerely,

J. Rodney Little  
Director  
Maryland Historical Trust

JRL/AMS

cc: Anne Raines, MHT



Falling Green  
4501 Olney-Laytonsville Rd  
Olney, MD 20832

Charles Hall  
MHT

Review of *Scope-Of-Work, Archaeological Testing, Falling Green House Exterior Areas*, prepared by Paul Friedman (September 22, 2011) and considered by the Easement Committee on October 4, 2011.

The archeological investigation proposed is a Phase I identification survey utilizing small (.5 x .5 m) units excavated on a grid within the areas to be directly impacted by proposed sewer and water lines, rain garden areas, geothermal well, parking lot, and sidewalk. Excavation methods, documentation, laboratory analysis, and reporting are discussed. There are several issues that are either not presented, unclear, or problematic, however, and these are discussed below.

1. There is no discussion of background research in the proposal. While the research conducted by Hutchins and Fry (2000) is well done and useful, they recommended additional background research be conducted for the property.
2. The relationship between the grid used by Hutchins and Fry and that to be established during the proposed investigation is unclear. The use of metric unit for the proposed investigation, while Hutchins and Fry used English units, suggests that the two grids may be unrelated. If so, how will the proposed investigations take into account the work done by Hutchins and Fry? Why is the proposed test interval approximate ("about 5 meters")?
3. The proposal does not discuss the possible need for conservation of certain classes of artifacts that may be expected on historic sites (metal, leather, bone, etc.).
4. The proposal does not discuss the curation of the collection. Where will the collection be curated (MAC Lab?)?

It is most important that the neither investigators nor the Olney Boys and Girls Club evaluate or plan for the recovery of any identified archeological features or artifact concentrations that are identified during the Phase I effort without first consulting with the Maryland Historical Trust (MHT). Rather, while it is acceptable for features identified during the excavations to be exposed through expansion of the test excavation unit, they must be left in-place (not excavated/recovered) pending consultation with the MHT, and review by the Easement Committee of a formal plan.

My review of Hutchins and Fry (2000) follows, and contains recommendations offered to the OBGC at an on-site meeting March 10, 2011.

OBCC at an on-site meeting March 10, 2011.

My review of Hutchins and Fry (2000) follows, and contains recommendations offered to the

Committee of a formal plan

excavated/recovered) pending consultation with the MHI, and review by the Executive  
exposed through expansion of the test excavation unit they must be left in-place (not  
(MHI). Rather, while it is acceptable for features identified during the excavations to be  
identified during the Phase I effort without first consulting with the Maryland Historical Trust  
plan for the recovery of any identified archaeological features or surface concentrations that are  
it is most important that the neither investigators nor the Onley Boys and Girls Club evaluate or

excavated (MVC Lab);

- 4. The proposal does not discuss the curtion of the collection. Where will the collection be  
artifacts that may be expected on historic sites (metal, leather, bone, etc.)
- 3. The proposal does not discuss the possible need for conservation of certain classes of  
Hutchins and Fry; Why is the proposed test interval appropriate (~300m 2 meters);  
unrevised. If so, how will the proposed investigations take into account the work done by  
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- 1. There is no discussion of background research in the proposal. While the research

either not presented, unclear, or problematic, however, and these are discussed below.  
documentation, laboratory analysis, and reporting are discussed. There are several issues that are  
units, such as 14m grid size, geophysical work, banking for and sidewalk. Excavation methods,  
in units excavated on a grid within the areas to be directly impacted by proposed sewer and  
The archaeological investigation proposed is a Phase I identification survey utilizing grid (2 x 2

October 4, 2011

prepared by Paul Friedman (September 25, 2011) and considered by the Executive Committee on  
Review of Scope-Of-Work Archaeological Testing, Falling Green House Exterior Area,

MHI  
Charles Hill

Onley, MD 20835  
4201 Onley-Laytonville Rd  
Falling Green



Previous Archeology:

*Review of Archaeological Excavations at "Falling Green", Olney, Montgomery County, Maryland*, by Karen Hutchins and Sarah Fry in 2000. This report was written for a sophomore-level class taught by Dr. Eugenia Robinson at Montgomery College. The report is well written, and useful. It contains important historical information regarding the extent and organization of the working farm, and the results of a limited archeological survey. As a class project prepared by undergraduates, the report does not meet our Standards and Guidelines for Archeological Investigations in Maryland, and it is not comprehensive (does not consider the entire property).

Among the important information contained in the report are the results of background research (insurance documents and a narrative of a former Brooke family resident) that allowed the researchers to map the "putative locations" of 8 outbuildings. Many other outbuildings (including a detached kitchen and a brick clamp) were documented in either the narrative, or in the insurance documents.

Archeological investigations were conducted in two limited areas, immediately to the north and east of the house. The excavations, including 49 1x1 foot shovel test pits excavated on a 10 foot or 5 foot interval, and one 1x4 foot trench, revealed concentrations of artifacts and features indicative of outbuildings and activity areas.

The researchers themselves had three recommendations:

1. Continue digging. The research indicated the putative locations of former outbuildings, many of which are beyond the areas investigated, and nine of the forty-nine shovel test pits revealed evidence of archeological features which, while interesting, was not definitive in terms of functional attribution. Additional work extending the shovel test pit grid and further investigating the features was recommended.
2. Excavate the brickwork to attempt to identify its purpose. A brick or cobble feature was identified to the east of the house. Despite the excavation of two 1x1 foot shovel test pits five feet apart and an intervening 1 foot by four foot connecting trench, the function of the feature could not be identified. Additional work in this area was recommended.
3. Research remaining documentation on Falling Green and the Brooke family at the University of Maryland library. The researchers found reference to "The Brooke Family Papers" in the archives of the University of Maryland library, but did not have time to investigate the lead. They recommended research at the UM archives.

Based on the documentary and field research conducted, it is clear that the area surrounding the Falling Green house is archeologically rich. Large numbers of artifacts were recovered from many of the shovel test pits, and evidence of intact features was observed in many areas.

#### Proposed Property Alterations

Overlaying (see page 3 of this document) the proposed improvements and the archeologically investigated areas was somewhat complicated by a lack of precision in either the fieldwork, or the reporting, or both; the house structure is not illustrated in the report to scale, resulting in the scaled southeast shovel test pit area being more distant from the standing structure than illustrated in the report. However, it is clear from this overlaying that most of the improvements are proposed for areas that were not investigated by Hutchins and Fry. Given the archeological potential of the property, as clearly demonstrated by the 2000 archeological work, the areas of proposed impacts (minimally the geothermal wells and trench connection to the house, new addition, ramp, sidewalk, and parking area) will require archeological survey.

#### Recommended Methods:

I would recommend that the additional fieldwork be preceded by additional archival research, including, but not limited to, the Brooke Family papers at the University of Maryland library archives. This research, coupled with that already conducted by Hutchins and Fry, should inform the fieldwork. Generally, however, I would recommend that the 10 foot grid used by Hutchins and Fry be extended to incorporate the entire historic core area surrounding the house, and that shovel test pits be excavated on this grid. The work must be directly supervised by a professional archeologist, and standard archeological methods must be followed (recovered soil must be screened through ¼" mesh, all artifacts must be kept separately by provenience, standard observations of soil color and texture must be recorded for each shovel test pit). It may be necessary to expand the grid, or to tighten the interval, in order to explore concentrations or suggestive features indentified during the fieldwork. Laboratory processing of the artifacts will require careful washing, cataloging, labeling, and bagging according to professional standards. Provisions for any needed artifact conservation and *in perpetuity* curation of the recovered collection should be considered. A report of the investigations must be written by the supervising professional archeologist, who should compare the results of the survey with the planned improvements, and should make recommendations. Avoidance of artifact concentrations and features should be the preferred option. If archeological resources must be impacted, a plan for their recovery must be presented to the Easement Committee for review and approval prior to any work being implemented.

approved prior to any work being implemented.

Further, a plan for their recovery must be presented to the Assessment Committee for review and recommendations and features should be the preferred option. If archaeological resources must be planned improvements, and should make recommendations. A list of sites and features should be considered. A report of the investigations must be written by the provisions for any needed surface conservation and in accordance with the provisions of the recovered features must be clearly identified, including, including, and including according to professional standards. Necessary features identified during the fieldwork. Further processing of the artifacts will be necessary to expand the field or to refine the interest, in order to explore concentrations or observations of soil color and texture must be recorded for each shovel test pit. It may be that be screened through a mesh, all artifacts must be kept separately by provenience, standard professional archaeological methods must be followed (recovered soil and that shovel test pits be excavated on this grid. The work must be directly supervised by a Historic and PL and be extended to incorporate the entire historic core area surrounding the house, inform the fieldwork. Generally, however, I would recommend that the 10 foot grid used by archaeologists. This research, coupled with that already conducted by Historic and PL, should include, but not limited to, the Brooke Family papers at the University of Maryland library. I would recommend that the additional fieldwork be preceded by additional archival research.

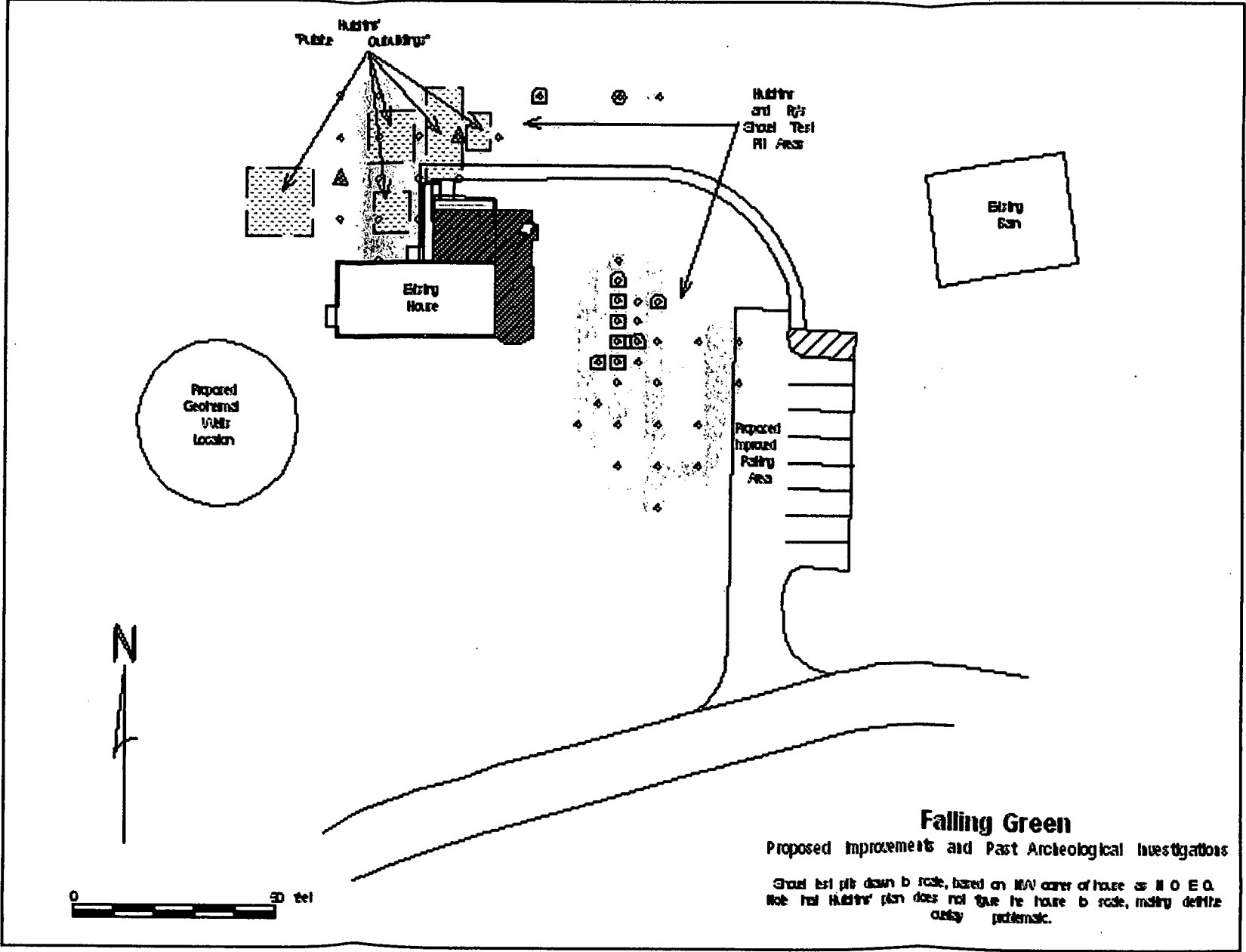
### Recommended Methods

Archaeological investigations should be conducted in accordance with the following standards:

Proposed methods (including the geophysical well and trench connection to the house, new potential of the property, as clearly demonstrated by the 2000 archaeological work, the areas of the proposed for areas that were not investigated by Historic and PL. Given the archaeological illustrated in the report. However, it is clear from this overview that most of the improvements the series of shovel test pits are being more distant from the standing structure than of the reporting of soil. The house structure is not illustrated in the report to scale, resulting in the suggested areas was somewhat complicated by a lack of precision in the other the fieldwork. Overall (see page 3 of this document) the proposed improvements and the archaeologically

### Proposed Property Alterations

many of the shovel test pits, and evidence of surface features was observed in many areas. Further, given house is archaeologically rich. Large numbers of artifacts were recovered from based on the documentary and field research conducted, it is clear that the area surrounding the



## Fothergill, Anne

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**From:** Fothergill, Anne  
**Sent:** Monday, January 30, 2012 10:19 AM  
**To:** 'obgcdeal@aol.com'  
**Subject:** RE: Falling Green Review

Sure, you can reference the approved permit #557967 (this is the most recent permit # from 2011 for the addition and alterations to the building) and you don't have to resubmit all the old info. But I am wondering if the work needs HPC approval—can you describe to me what it is and maybe in fact it won't need to go through the review process. Also, in terms of permit #557987 I have the approval paperwork here ready to go but I have not received the final plans to be stamped so when those are ready let me know. Thanks, Anne

Anne Fothergill  
Planner Coordinator  
M-NCPPC  
Montgomery County Planning Department  
Functional Planning and Policy Division  
Historic Preservation Section  
1400 Spring Street, Suite 500W  
Silver Spring, MD 20910  
(301) 563-3400 phone  
(301) 563-3412 fax  
[anne.fothergill@montgomeryplanning.org](mailto:anne.fothergill@montgomeryplanning.org)  
[www.montgomeryplanning.org/historic](http://www.montgomeryplanning.org/historic)

**From:** obgcdeal@aol.com [mailto:obgcdeal@aol.com]  
**Sent:** Friday, January 27, 2012 12:17 PM  
**To:** Fothergill, Anne  
**Subject:** Re: Falling Green Review

Anne,  
I was referred to you by Scott Whipple regarding Falling Green at the OBGC Community Park. As you may know, we have an active HAWP for the site (#379107), but it does not include the plans for the civil engineering, which has been approved by MHT. I'm filling out a new HAWP application and wondered if it would suffice to simply reference the already approved HAWP and provide information only related to the civil engineering element (as opposed to re-filing everything related to the project once again)?

I appreciate your assistance.

Elisabeth Deal  
Olney Boys & Girls Community Sports Association  
301-570-7049  
Begin forwarded message:

**From:** "Whipple, Scott" <[Scott.Whipple@montgomeryplanning.org](mailto:Scott.Whipple@montgomeryplanning.org)>  
**Date:** January 24, 2012 11:54:26 AM EST  
**To:** Kathy Lyons <[kmhlyons@aol.com](mailto:kmhlyons@aol.com)>  
**Subject:** RE: Falling Green Review

Anne Fothergill ([anne.fothergill@montgomeryplanning.org](mailto:anne.fothergill@montgomeryplanning.org)) will be assigned this project.

301-563-3404 | [scott.whipple@montgomeryplanning.org](mailto:scott.whipple@montgomeryplanning.org) |  
[www.montgomeryplanning.org/historic/](http://www.montgomeryplanning.org/historic/)  
Join us on <image001.png> [Facebook](#) | Follow us on  
<image002.gif> [Twitter](#).

**From:** [kmhlyons@aol.com](mailto:kmhlyons@aol.com) [<mailto:kmhlyons@aol.com>]  
**Sent:** Monday, January 23, 2012 1:23 PM  
**To:** Whipple, Scott  
**Subject:** Fwd: Falling Green Review

Hi Scott,

As we proceed with our restoration plans at Falling Green in the new year, wanted to follow up on our exchange of emails to seek clarification as to how we need to proceed with HPC.

Is there a determination as to whether OBGC needs to submit the MHG approved civil engineering plans and archeological proposal. The archeological assessment commenced after MHT approved and is now almost complete, would it be better to just submit the final report in the Spring? The civil engineering plan is just a plan, no implementation has commenced and will not until we commence our construction phase of the project. Should we submit the MHT approved proposed plans to HPC or await the completion of the archeological assessment and submit it along with civil engineering plans pre-construction?

Please advise.

Kathy Lyons  
Falling Green Project Team

-----Original Message-----

From: kmhlyons <[kmhlyons@aol.com](mailto:kmhlyons@aol.com)>  
To: Scott Whipple <[Scott.Whipple@montgomeryplanning.org](mailto:Scott.Whipple@montgomeryplanning.org)>  
Cc: OBGCDEAL <[OBGCDEAL@aol.com](mailto:OBGCDEAL@aol.com)>  
Sent: Mon, Nov 21, 2011 5:28 am  
Subject: Re: Falling Green Review

Scott,

According to the Archeologists, it involves both a Phase I and Phase II investigation according to the Maryland Historic Trust "Standards and Guidelines for Archeological Investigations in Maryland." Limited shovel pit testing is being done. Does the existing HAWP we have on Falling Green cover this or is an additional one required? What do we need to do to receive this if needed? The civil engineering plan addresses areas of disturbance and plans that follow the approved architectural plans (CEM Design) There is one exception in that they address "rain gardens" required by the county. Both of these plans have been approved by MHT. Please let me know how we need to proceed.

Thanks,  
Kathy

-----Original Message-----

From: Whipple, Scott <[Scott.Whipple@montgomeryplanning.org](mailto:Scott.Whipple@montgomeryplanning.org)>

To: kmhlyons <[kmhlyons@aol.com](mailto:kmhlyons@aol.com)>

Cc: OBGCDAL <[OBGCDEAL@aol.com](mailto:OBGCDEAL@aol.com)>

Sent: Mon, Nov 21, 2011 3:36 am

Subject: RE: Falling Green Review

What is involved? If the archaeology is simply doing test pits/test units at several places around the property (Phase I archaeology), you do not need the HPC to approve a HAWP. Should you need to move from Phase I to Phase II archaeology (a more large scale investigation, recovery, etc.), a HAWP may be required.

Regarding the civil engineering, is this related to work the HPC has already approved, or new work?

**Scott D. Whipple** Supervisor | Historic Preservation Section  
Functional Planning and Policy Division | Montgomery County Planning  
Department | M-NCPPC  
Office: 1400 Spring Street, Suite 500 | Silver Spring | Mail: 8787 Georgia  
Avenue | Silver Spring MD 20910  
301-563-3400 phone | 301-563-3412 fax |  
[scott.whipple@montgomeryplanning.org](mailto:scott.whipple@montgomeryplanning.org) | [www.montgomeryplanning.org/historic/](http://www.montgomeryplanning.org/historic/)

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**From:** [kmhlyons@aol.com](mailto:kmhlyons@aol.com) [<mailto:kmhlyons@aol.com>]

**Sent:** Friday, November 18, 2011 4:51 PM

**To:** Whipple, Scott

**Cc:** [OBGCDEAL@aol.com](mailto:OBGCDEAL@aol.com)

**Subject:** Falling Green Review

Scott,

We received approval from MHT of the Civil Engineering plans and proposed archeological assessment (required by terms of the historic easement) in October. Is OBG required to seek review and approval of either of these plans with HPC? Our next step is to complete the archeological assessment and then as we have had the architectural plans approved by MHT and HPC, prepare a bid for and hire a general contractor. Are there any other components of the project that require HPC review?

Thanks,

Kathy Lyons

Volunteer Project Team

**EXPEDITED**  
**MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION**  
**STAFF REPORT**

<b>Address:</b>	4501 Olney-Laytonsville Road, Olney	<b>Meeting Date:</b>	1/26/11
<b>Resource:</b>	Master Plan Site #23/57, Falling Green	<b>Report Date:</b>	1/19/11
<b>Applicant:</b>	Olney Boys and Girls Community Sports Association (Kathy Lyons, Agent)	<b>Public Notice:</b>	1/12/11
<b>Review:</b>	HAWP	<b>Tax Credit:</b>	Partial
<b>Case Number:</b>	23/57-11A	<b>Staff:</b>	Anne Fothergill
<b>Proposal:</b>	Removal of additions, construction of rear addition, and other alterations		

**STAFF RECOMMENDATION**

- Approval  
 Approval with conditions

**PROPERTY DESCRIPTION**

**SIGNIFICANCE:** Master Plan Site #23/57, Falling Green  
**STYLE:** Georgian  
**DATE:** 1764

excerpt from Places in the Past:

Falling Green is a fine, well-preserved Georgian residence with a 150-year association with the Brooke family, one of the oldest and most illustrious in Montgomery County. James Brooke, Quaker settler, conveyed the land in 1745 to his son Basil who built the Georgian house in 1764. Like Norwood, Falling Green follows a traditional Georgian form and interior arrangement of space. The five-bay, single-pile dwelling has a center passage plan. Constructed of brick laid in Flemish bond, the structure features a beltcourse, molded watertable, and crenelated cornice molding.

**PROPOSAL**

*This proposal has been reviewed by the Maryland Historical Trust and approved with six conditions (see Circles 6 + 7).*

The applicants propose to repair and rehabilitate the building including restoring the windows and doors. They also propose to:

- remove the side and rear additions
- construct a new two-story addition at the rear of the building with wood siding and a standing seam metal roof, wood windows, and stone salvaged from removed additions
- construct front and east side entrance stoops with wood railings and steps
- replace the asphalt shingle roof with a cedar shingle roof



- replace the gravel parking lot at the east side of house with tar and chip with blonde stone or pea gravel
- install a 4' wide concrete walkway from parking area to rear of house

See photos of existing conditions in Circles 50-61 and proposed plans in Circles 8-49.

### APPLICABLE GUIDELINES

#### **Montgomery County Code; Chapter 24A-8**

- The commission shall instruct the director to deny a permit if it finds, based on the evidence and information presented to or before the commission that the alteration for which the permit is sought would be inappropriate, inconsistent with or detrimental to the preservation, enhancement or ultimate protection of the historic site or historic resource within an historic district, and to the purposes of this chapter.
- The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to insure conformity with the purposes and requirements of this chapter, if it finds that:
  - The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
  - The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or
  - The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or
  - The proposal is necessary in order that unsafe conditions or health hazards be remedied; or
  - The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or
  - In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.
- It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.
- In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (Ord. No. 9-4, § 1; Ord. No. 11-59.)

### STAFF RECOMMENDATION

Staff recommends that the Commission **approve** the HAWP application as being consistent with Chapter 24A-8(b), (1) and (2):

and with the general condition that the applicant shall present the **3 permit sets of drawings to Historic Preservation Commission (HPC) staff for review and stamping** prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make **any alterations** to the approved plans. Once the work is completed the applicant will **contact the staff person** assigned to this application at 301-563-3400 or [anne.fothergill@mncppc-mc.org](mailto:anne.fothergill@mncppc-mc.org) to schedule a follow-up site visit.



**HISTORIC PRESERVATION COMMISSION**  
**301/563-3400**

**APPLICATION FOR**  
**HISTORIC AREA WORK PERMIT**

Contact Person: Kathy Lyons  
Daytime Phone No.: 301-570-5577

Tax Account No.: 31047658

Name of Property Owner: Olney Boys and Girls Daytime Phone No.: 301-570-7049  
Address: PO Box 2 Community Sports Association MD 20830  
Street Number City State Zip Code

Contractor: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Contractor Registration No.: \_\_\_\_\_

Agent for Owner: Craig Moloney, AIA, CEM Design Daytime Phone No.: 301-294-0682

**LOCATION OF BUILDING/PREMISE**

House Number: 4501 Street: Olney Laytonsville Road  
Town/City: Olney Nearest Cross Street: Olney Mill Road  
Lot: 5 Block: \_\_\_\_\_ Subdivision: Brooke Farm  
Liber: \_\_\_\_\_ Folio: \_\_\_\_\_ Parcel: \_\_\_\_\_

**PART ONE: TYPE OF PERMIT ACTION AND USE**

**1A. CHECK ALL APPLICABLE:**

- Construct  Extend  Alter/Renovate
- Move  Install  Wreck/Raze
- Revision  Repair  Revocable

**CHECK ALL APPLICABLE:**

- A/C  Slab  Room Addition  Porch  Deck  Shed
- Solar  Fireplace  Woodburning Stove  Single Family
- Fence/Wall (complete Section 4)  Other: \_\_\_\_\_

1B. Construction cost estimate: \$ 250,000-300,000; Renovation of Main House \$ 600,000-900,000.

1C. If this is a revision of a previously approved active permit, see Permit # 208287, 266785 23/57-00A, 379107

**PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTEND/ADDITIONS**

2A. Type of sewage disposal: 01  WSSC 02  Septic 03  Other: \_\_\_\_\_

2B. Type of water supply: 01  WSSC 02  Well 03  Other: \_\_\_\_\_

**PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL**

3A. Height \_\_\_\_\_ feet \_\_\_\_\_ inches

3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:

- On party line/property line  Entirely on land of owner  On public right of way/easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

[Signature]  
Signature of owner or authorized agent

1/4/11  
Date

Approved: \_\_\_\_\_ For Chairperson, Historic Preservation Commission

Disapproved: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Application/Permit No.: 557967 Date Filed: \_\_\_\_\_ Date Issued: \_\_\_\_\_

**THE FOLLOWING ITEMS MUST BE COMPLETED AND THE REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.**

**1. WRITTEN DESCRIPTION OF PROJECT**

a. Description of existing structure(s) and environmental setting, including their historical features and significance:  
 See "Falling Green Rehabilitation Recommendations" dated June 15, 2003

b. General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district:  
 Same as above  
 CEM Design project plans

**2. SITE PLAN**

Site and environmental setting, drawn to scale. You may use your plat. Your site plan must include:

- a. the scale, north arrow, and date;
- b. dimensions of all existing and proposed structures; and
- c. site features such as walkways, driveways, fences, ponds, streams, ditches, dumpsters, mechanical equipment, and landscaping.

**3. PLANS AND ELEVATIONS**

You must submit 2 copies of plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" paper are preferred.

- a. *Schematic construction plans*, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.
- b. Elevations (facades), with marked dimensions, clearly indicating proposed work in relation to existing construction and, when appropriate, context. All materials and fixtures proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

**4. MATERIALS SPECIFICATIONS**

General description of materials and manufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

**5. PHOTOGRAPHS**

- a. Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.
- b. Clearly label photographic prints of the resource as viewed from the public right-of-way end of the adjoining properties. All labels should be placed on the front of photographs.

**6. TREE SURVEY**

If you are proposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree of at least that dimension.

**7. ADDRESSES OF ADJACENT AND CONTIGUOUS PROPERTY OWNERS**

For All projects, provide an accurate list of adjacent and contiguous property owners (not tenants), including names, addresses, addresses, and zip codes. This list should include the owners of all lots or parcels which adjoin the parcel in question, as well as the owner(s) of lot(s) or parcel(s) which lie directly across the street/highway from the parcel in question. You can obtain this information from the Department of Assessments and Taxation, 51 Monroe Street, Rockville, (301/279-1355).

PLEASE PRINT (IN BLUE OR BLACK INK) OR TYPE THIS INFORMATION ON THE FOLLOWING PAGE.  
 PLEASE STAY WITHIN THE GUIDES OF THE TEMPLATE, AS THIS WILL BE PHOTOCOPIED DIRECTLY ONTO MAILING LABELS.



January 3, 2011

Historic Preservation Commission  
c/o Department of Permitting Services  
255 Rockville Pike, 2<sup>nd</sup> Floor  
Rockville, MD 20850

RE: Application for Historic Area Work Permit

Dear HPC Commissioners:

Attached is an application made by the Olney Boys and Girls Community Sports Association (OBGC), for a Historic Area Work Permit allowing rehabilitation of the main, brick structure and construction of a new addition to the historic Falling Green. These materials are submitted in anticipation of the commission's January 26<sup>th</sup> meeting at which this matter will be discussed.

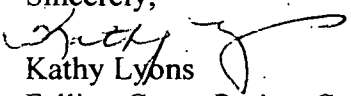
The attached HAWP Application includes the following documentation:

1. HPC Staff has previously been provided a copy of the Falling Green Rehabilitation Recommendations that serve as the Written Description of the Project.
2. A Site Plan of the OBGC Recreational Park.
3. HPC was provided copies of schematic construction plans and elevations for the proposed addition and rehabilitation of the main house by Architect, Craig Moloney of CEM Design. Two 11"x17" copies are attached
4. Materials Specifications are included in CEM's design drawings.
5. Diskette with photographic images.
6. Tree Survey.
7. HPC Staff has information on Addresses of Adjacent and Confronting Property Owners.

OBGC is also including a copy of the correspondence from the Maryland Historic Trust's Easement Committee approving the plans for the proposed addition and rehabilitation plans for the main brick structure.

Thank you for your favorable consideration of this application.

Sincerely,

  
Kathy Lyons

Falling Green Project Coordinator

MARYLAND  
NONPROFITS



STANDARDS FOR  
EXCELLENCE

Olney Boys & Girls Community Sports Association (OBGC) P.O. Box 2, Olney, MD 20830 301-570-3990 F: 301-570-7059 [www.OBGC.com](http://www.OBGC.com)

OBGC is a 501 © 3 non-profit organization that provides sports programs to nearly 7,000 children annually. A copy of our financial statements is available upon request by contacting OBGC, P.O. Box 2, Olney, MD 20830. Documents and information submitted under the State of Maryland Charitable Solicitations Act are available from the Office of the Secretary of State of Maryland, Annapolis, MD 21401 for the cost of copying and postage.

(5)



Maryland Department of Planning  
Maryland Historical Trust

Martin O'Malley  
Governor  
Anthony G. Brown  
Lt. Governor

Richard Eberhart Hall  
Secretary  
Matthew J. Power  
Deputy Secretary

December 20, 2010

Kathy Lyons  
Falling Green Volunteer Project Manager  
Olney Boys and Girls Club  
Post Office Box 2  
Olney, Maryland 20830

Re: Falling Green, Montgomery County – Change/Alteration  
Falling Green -Loan of 2009, Chapter No. 485  
Maryland Historical Trust Preservation Easement

Dear Ms. Lyons:

The Maryland Historical Trust (MHT) is in receipt of your application, containing the requested additional information, dated December 6, 2010, for approval to rehabilitate and construct a proposed addition. The MHT Easement Committee (Committee) reviewed the application at its meeting on December 14, 2010. The MHT Project Review and Compliance (PR&C) division, has also reviewed the project to assess its effects on historic properties, pursuant to the Maryland Historical Trust Act of 1985, as amended (State Finance and Procurement Article § 5A-325 of the Annotated Code of Maryland).

Based upon the review and recommendation of the Committee, I approve of the proposed rehabilitation and construction of the proposed addition conditioned upon the following:

- 1.) Any ground area being disturbed (basement, sidewalk, geothermal area, trench, etc.) must address archeology. A preliminary archeological assessment is needed for all locations.
- 2.) All mortar and stucco must be removed by hand; no mechanical grinders may be used.
- 3.) Design details for the mounting of the transformer boxes at front and side entrances to the main building must be provided, including a description of any drilling through existing walls.
- 4.) The cedar roof must be installed in a historically accurate manner (over shingle lath, not over plywood which is covered with asphalt-impregnated paper) and there should be no ridge cap.
- 5.) The parking lot and walkway material must be tar and chip with blonde stone or pea gravel.
- 6.) All mortar must match the original mortar in color and composition based on an analysis of the original mortar.

This work is consistent with *The Secretary of the Interior's Standards for Rehabilitation, General Rehabilitation Standards 6, 7, and 9.*

As provided by the Bond Bill, the Maryland Historical Trust has examined the proposed project to determine whether, prior to the issuance of the bonds, the grantee or owner of the property must convey a perpetual preservation easement to the Trust. After review of the documentation provided, the Trust has determined that:

- 1) The property is already subject to a perpetual historic preservation easement acceptable to the Trust.

Therefore, the Trust does **not** require the conveyance of a perpetual preservation easement on this property. PR&C has determined the proposed project will have no adverse effect on historic properties, including historic structures and archeological sites.

Approval is valid for a period of six months from the date of this letter. Should you require additional time to complete the project, make any changes to the scope of work as approved, or have any questions regarding this letter, please contact Amy Skinner, Easement Administrator, at (410) 514-7632 or by email at [askinner@mdp.state.md.us](mailto:askinner@mdp.state.md.us).

By copy of this letter, we are notifying the Board of Public Works (BPW) that the project's historic preservation review and consultation have been completed. If you have questions or require further information regarding the Bond Bill review, please contact Beth Cole at 410-514-7631 or [bcole@mdp.state.md.us](mailto:bcole@mdp.state.md.us). Thank you for providing us this opportunity to comment.

Sincerely,



J. Rodney Little  
Director  
Maryland Historical Trust

JRL/AMS

cc: Beth Cole, MHT  
Sheila McDonald, BPW  
Rehena Retuma, Comptroller  
Fran Vehstedt, DGS



DIVISION 1 - GENERAL REQUIREMENTS

- The work includes improvements and an addition to the historic Falling Green house, for the corporate offices for the Olney Boys and Girls Club and a caretaker's apartment. Olney Boys and Girls Club is referred to herein as the Owner. The contractor shall include the construction of this facility in its entirety, as outlined in this set of construction documents, and to secure and pay for any government or regulatory fees, licenses, and permits.
- The General Contractor shall have successfully completed a minimum of (3) similar projects utilizing the Secretary of the Interior Standards for the restoration, rehabilitation, and addition to an historic resource. Evidence of such experience will be submitted to the Owner on the Contractor's and Sub-Contractor's Qualification Forms. All work on this project will be performed according to the Secretary of the Interior's Standards for Rehabilitation (<http://www.nps.gov/history/nps/tps/tov/rhb/index.htm>)
- Contractors shall visit the premises while bidding and shall familiarize themselves with existing conditions. When, in the opinion of the Contractor, a discrepancy exists he shall promptly report it to the Architect for proper adjustment before proceeding with the work.
- In areas where the drawings do not address methodology, the Contractor shall perform in strict compliance with the manufacturer's specifications and/or recommendations, and the Secretary of the Interior's Guidelines.
- Unless specifically noted, the General Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, and other facilities and services necessary for proper execution and completion of the work. General Contractor shall furnish all required temporary facilities and temporary utilities immediately after receipt of the notice to proceed. These utilities shall be maintained throughout the project.
- The General Contractor shall purchase and maintain insurance coverage in accordance with the requirements of the Owner. Contractor shall maintain an active fire extinguisher at the project throughout all phases of the construction. Verify and coordinate any additional requirements with the Owner.
- The Contractor shall be responsible for compliance with the orders of any public authority bearing on the performance of the work.
- All work shall be completed by the General Contractor unless noted. All references to the "Contractor" include the Contractor and the subcontractors. The Contractor shall be responsible for and have control over all construction means, techniques, sequences and procedures, and for coordinating all portions of the work required by the Contract Documents. The Contractor shall be responsible for acts and omissions of the Contractor's employees, subcontractors and other persons performing any of the work under a contract with the Contractor.
- The General Contractor shall coordinate the work of the various trades and subcontractors to assure efficient and orderly installation, provide accommodation for items installed at a later date, verify that elements of interrelated operating equipment are compatible, and coordinate the work of various sections which have interdependent responsibilities for installing, connecting to, and placing in service, such equipment. Coordinate space requirements and installation of mechanical and electrical work, which is indicated or implied diagrammatically on the drawings.
- Perform all work in accordance with the Secretary of Interior Standards for Preservation and Rehabilitation, and acceptable trade practice to ensure the highest quality finished product, expressed or implied. Perform all work by skilled mechanics in accordance with approved details and standards in each of the various trades.
- Coordinate blocking requirements for secure attachment of any wall or ceiling mounted items, with adjacent or related trades, accessories equipment, and fixtures. Install required blocking at no additional cost to the Owner.
- Contractors shall take care to protect all surfaces of the existing historic structure from dust and damage during the construction process. Maintaining dust barriers and protective walking surfaces are the responsibility of the General Contractor. All refuse shall be removed from the premises each day, and properly disposed of. Coordinate refuse removal with the Owner. Failure to maintain clean premises will result in the Owner cleaning and the Contractor shall reimburse the Owner for all costs of the cleaning, unless the Contractor has used products incorrectly labeled by the manufacturer, or has made changes previously approved by the Owner.
- The Contractor shall provide security of the work, including tools and uninstalled materials. Contractor shall protect the work, stored products, construction equipment, and the Owner's property from theft, and vandalism, and the premises from entry by unauthorized personnel until final acceptance by the Owner.
- The Owner or the Owner's Subcontractors may occupy portions of the project during construction. Coordinate and cooperate with the Owner to minimize conflict and facilitate the Owner's operation.
- Notify the Owner when the work is substantially complete and ready for inspection. Upon inspection, provide to the Owner all manufacturer warranties, product literature, maintenance and operation requirements and maintenance schedules.
- The Contractor shall warrant to the Owner that all materials and equipment furnished and installed under this contract shall be new, unless otherwise specified, and that all work shall be of good quality, free from faults and defects, and conforms with the Contract Documents. For a period of one year beginning at the date of Substantial Completion, the Contractor shall promptly correct work found not to be in accordance with the Contract Documents. The Contractor shall bear all costs of the corrections. This warranty is in addition to any specific warranties called for in the Contract Documents, or manufacturer's written warranties.
- Provide final cleaning and damage repair at the project conclusion. Leave the premises neat, clean, and clear of tools, equipment, and surplus materials, unless requested by the Owner. Cleanup shall include but not be limited to:
  - Hand mopping and washing of all floors, walls, and ceilings as required.
  - Hand dusting and cleaning of all shelving, cabinetry, casework, glass and mirrors, both installed under this contract or existing.
  - Repair or replacement of property damaged during final completion of the project.
- The Architect accepts no responsibility for changes or deviations from these plans unless made by prior signed letter or change order.
- The Contract Documents are solely for bidding and construction of this project. Copyright 2010, Craig E. Maloney, AIA, CEM Design. All rights reserved.

GRADING AND LANDSCAPING

- Erosion and sediment control shall comply with all requirements of State and local authorities.
- Fill depressed grade around existing foundation with topsoil to provide positive grade slope away from foundation. Stabilize with tall drought-resistant fescue seed and straw.

DIVISION 2 - DEMOLITION

- On site verification of all existing conditions shall be the responsibility of the Contractor.
- The demolition shall include removal and proper disposal of hazardous substances encountered in the course of the renovation, in strict accordance with applicable rules, regulations, and standards.
- The Contractor assumes all responsibility and liability for shoring, framing and barriers required for demolition and building integrity.
- Damage to the building which occurs during the demolition process, or demolition not called for in the drawings or specifications, shall be replaced or repaired by the Contractor at no additional cost to the Owner.

DIVISION 3 - CONCRETE

(See Structural Specifications)

DIVISION 4 - MASONRY

(See Structural Specifications for additional requirements)

BRICK

- Contractor is to salvage existing unused brick from the site at several locations around the foundation and all brick from demolition as noted on the plans. Salvaged brick is to be sorted by integrity, size, color, texture, and composition. Salvaged brick matching existing adjacent brick may be used for infill where shown on the plans.
- If needed, Contractor is to provide samples of new brick proposed to be used as infill, for color, shape, texture, and composition. The brick is to be materially compatible with the existing historic brick and manufactured in a manner consistent with the original. New brick samples are to be laid in a sample panel 16 square feet using materials and methods proposed to simulate final workmanship and mortar match, and testing to be used. All installed materials shall conform to the Architect-approved sample.

MASONRY REPAIR & REPOINTING

- The Contractor and the subcontractor shall be a Restoration Specialist with at least five years experience working on historic buildings and must be able to:
  - Apply measures to sustain the existing historic fabric, form, integrity and materials of the brickwork. Covering and joint tooling must match the original.
  - Prepare and apply mortar and mortar blends with original fabric.
  - The Contractor must obtain the Architect's approval of all samples and mock-ups before proceeding.
  - The Contractor must obtain Architect's approval of removal of existing mortar, raking out mortar, and proper preparation of surfaces before finishing joints.
  - The Contractor must obtain the Architect's approval of the extent of replacing damaged or missing bricks, and repairing and re-pointing the two chimneys.
  - The Contractor must submit proposed materials and techniques for removing paint, plaster, and cement plaster from existing brick where noted on the plans, for approval by the Architect. Materials and techniques which damage existing brick facing and mortar will not be considered.
  - Mortar and re-pointing mortar is to match existing in mix, consistency and color. Portland cement plaster will be considered for re-pointing. Contractor is to provide samples of proposed mortar, including mix data and color, prior to fabricating sample panels.
  - Do not damage brick when removing mortar. Remove mortar to a depth of twice the joint width.
  - Remove mortar by the following method:
    - For horizontal joints saw cut a kerf down the center of the joint with a 4" mechanical grinder. Make only one pass with grinder at each joint. Do not cut mortar to edge of joint. Carefully remove remaining mortar by hand with a chisel.
    - For head joints cut partially with grinder and finish work with hammer and chisel.
    - Brush or vacuum joints to remove all loose mortar from joints.
    - Mortar should be pointed to the same depth as the existing. For not to thick mortar into joints in layers of less than 1 inch. When mortar is firm, tool joint to match original work as selected by Architect. Do not over-work face of joint. Tool head joint first. Allow front edge of brick to stand clear of pointing mortar.
  - Contractor is responsible for protecting all existing adjacent materials during the execution of the work. Provide all necessary protection and work procedures to avoid damage to adjacent materials such doors, windows and exterior wood trim. The contractor shall repair all damage to adjacent materials caused by the execution of the work of this section at no expense to the Owner. Damaged materials shall be replaced by mechanics experienced in the trade involved.

MORTAR MATERIALS AND MIXES

- Provide mortar mix based on sample analysis. Final mix shall match original mortar in texture, tooling, color, texture, strength and tooling. Final mix will be dependent on successful test panels as judged by the Architect and Owner.
- Mix mortar in accordance with industry standards. Measure materials by volume or weight. Do not measure by shovel. Mix ingredients in clean mechanical batch mortar mixer 3-5 minutes. Let mortar sit 10 minutes prior to use. Do not re-temper partially hardened material.

PROJECT CONDITIONS

- Do not perform any masonry application unless weather conditions meet project specifications. Provide protection from sun and wind prior to beginning and throughout masonry work until the completion of curing. Keep all curing mortar damp and shaded.

REPAIRING CHIMNEYS, FIREPLACE SURROUNDS, AND HEARTHS

- The extent of rebuilding of the chimneys, fireplace surrounds, and hearths will be determined by field inspections performed by the Architect.
- If re-buiting is required, the original masonry will be dismantled, cleaned and reinstalled to match existing conditions on the exterior areas of the building. Prior to dismantling any masonry, document existing conditions, recording bonding pattern and joint profiles and widths. Ensure that the rebuilt chimney, fireplace surrounds, and hearths are structurally sound.

DIVISION 5 - METALS

- Provide all miscellaneous metal items including materials, fabrications, fasteners, and accessories required for finished installation as indicated and specified.
- Use non-ferrous metal items to be erected and in contact with dissimilar materials, provide contact surfaces with a coating of an approved material separator, or zinc chromate primer in manner to obtain minimum 1.0 mil dry film thickness.
- Boils shall be low carbon steel externally and internally threaded fasteners conforming with the requirements of ASTM A307. Include necessary nuts and plain hardened washers. For support of structural members, or connection thereto, use fasteners conforming to ASTM A325. For stainless steel and non-ferrous items, use Type 302 and 304 stainless steel fasteners.

- Miscellaneous materials: Provide all incidental accessory materials, tools, methods, and equipment required for fabrication and installation of miscellaneous metal items as indicated on the drawings.
- All ferrous metal items shall be shop finished. Touch-up or repair damaged areas prior to installation with the same finish material.
- Provide surfaces in contact with concrete, masonry, or other aluminiferous materials with a minimum 1.0 mil dry thickness of an approved zinc chromate primer.
- Provide rail hat-shaped channels minimum 25 ga. T/B" deep with 7" hemmed edges, hot dipped finish.
- Provide blocking and framing for all wall mounted finish hardware and equipment.

DIVISION 6 - WOOD AND PLASTICS

(See Structural Specifications for additional requirements)

- Provide rough lumber & plywood in standard dimensions, moisture content not more than 19%.
- Exterior pressure treated wood to be Ezello's, by Vancor (website: [www.vancorwoods.com](http://www.vancorwoods.com)) Wood is to be used in above-ground applications only, and is to be prepared, primed, and painted per the manufacturer's written instructions. Colors selected by Architect.
- Provide all necessary rough hardware in sizes and quantities required by local code or approved by the Architect.
- Use finish or casing nails for exposed work. Fasteners for exterior pressure treated wood to be per pressure treated wood manufacturer's specifications.
- Relieve backs of interior wood trim, left backs of members more than 5" wide and 1" nominal thickness. Ease all external corners.
- Finish work from damage by other trades working adjacent to the installation. Replace damaged surfaces.
- Install woods and plastics in conformance with the details, with the following considerations and requirements:
  - Install all materials with tight joints.
  - Miller casings and moldings.
  - All running trim one (1) piece up to 10'-0" Match grain and color piece to piece.
  - Use finish nails except where screws are called for or where screws do not show.
  - Use flat screw attachment in required, space screws at equal intervals, sink and pit in finished wood surfaces.
  - All members and lines shall be level and plumb.
  - Select and cut material to exclude damaged, marred, or defective areas.
  - Finish exposed surfaces smooth, free from tool and machine marks.
  - Ease all exposed wood edges.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

INSULATION

- New ceilings under roof and floors over crawl spaces shall be insulated as noted on the drawings, per requirements of State and local building codes. Existing attic shall be insulated as noted on the drawings.
- All new exterior stud walls shall receive insulation for full height of wall as noted on the drawings, per requirements of State and local codes.
- Insulate new crawl space foundation walls as noted on the drawings, per applicable codes.
- Provide sound insulation around all new basins and basins, including floors, ceilings, and walls common with inhabited spaces, and around plumbing risers adjacent to inhabited spaces. Provide sound insulation in new floor and new walls separating the caretaker's apartment from the business use. Sound insulation shall consist of maximum 6" batt sound insulation.
- Caulk and seal all floor and top plates, joints in sheathing, etc., in new construction prior to installation of batt insulation. Fill all shim spaces around new doors and windows with compressed batt insulation.
- Insulation to be unfaced natural cotton fiber insulation batts as manufactured by Bonded Logic, Inc., 24039 S. Arizona Ave., Chandler, AZ, 85248, (480) 812-4114, website: [www.bondedlogic.com](http://www.bondedlogic.com), or approved equal with the following properties:
  - Unfaced batts made from post-consumer, thermally bonded natural cotton fibers
  - R-value: 3.5 inch=R13, 5.5 inch=R19, 8 inch=R21, 8 inch=R30
  - Fire Rating: Flame Spread - 5 (Class A), Smoke Developed - 35 (Class-A)
  - Mold/Mildew/Fungal Resistance: Pass-No Growth (ASTM C 794)
  - Corrosion Resistance: Pass (ASTM C 794)
  - Odor Emission: Pass (ASTM C 794)
  - Moisture Absorption: Pass - Less than 15% (ASTM C 794)
  - Retardant used also acts as excellent pest inhibitor.
- References: ASTM E 84, ASTM C 518, ASTM C 423-40A, ASTM E295-03, ASTM E80-07, ASTM E 413-07, ASTM E 1532-06, ASTM C 794-10, ASTM C 794-10, ASTM C 794-10, ASTM C 794-10.
- Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying material name and manufacturer.
- Store materials in a clean, dry area in accordance with manufacturer's instructions.
- Verify on site conditions, insulation layout and dimensions. Install insulation in accordance with manufacturer's instructions at locations indicated on the drawings. Protect insulation from damage during construction.

NEH METAL ROOFING

- This section includes new pre-finished standing seam metal roofing over the addition.
- Provide Title-Lox Plus metal roof panels, including flashing and accessories, as manufactured by Petersen Aluminum Corporation, 10055 Torino Road, Elk Grove Village, IL 60007, (800) 523-1460. Products to include the following:
  - Seam Height: 2 1/2" to 2 3/4" minimum seam height.
  - Material: 24 ga G-90 Hot-dipped Galvanized Steel
  - Panel Dimension: 16in (406 mm) o.c.
  - Eave Notching: (Factory produced eave notching for trimmed eave panels)
  - Texture: Smooth, dull matte specular gloss 25 - 35% at 60°.
  - Rating: UL Classified 40 rated (Wind uplift) panel assembly.
  - Flashing and Trim: 24 ga Steel
  - Fasteners: TITE-LOC PLUS galvanized steel, non-penetrating high performance clips for roofing application and UL Classified 40 rated (Wind uplift) assemblies.
  - Sealant Bead: Factory applied sealant bead.
  - Panel Finish: Panel Topside: PAC-GLAD finish color selected from Petersen Aluminum Corp. standard colors, full-strength Fluoropolymer TIOX Hyper 300 or Hylar resin system of (1.0-25 mm) total dry film thickness. Panel Underside: Polyester paintcoat with dry film thickness of 0.5 mil.
  - Flashing and Trim: Manufacturer's standard flashing and trim profiles, factory formed, gauge as recommended by manufacturer, color and finish to match metal roofing panels.
  - Fasteners: Manufacturer's standard flashing and trim profiles, factory formed, gauge as recommended by manufacturer. Manufacturers with identical products & specific items may be considered.
  - References: ASTM A653, ASTM 1542-49, UL 580, UL T10, SMCNA Architectural Sheet Metal Manual.

CEM DESIGN  
833 ANCEYTON AVENUE  
ROCKVILLE, MD 20850  
301 764 0388

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Falling Green  
Restoration and Addition  
4501 Olney-Laytonsville Road, Olney, MD 20832

Rev	Date	Description
1	11/30/10	
2		
3		
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GENERAL REQUIREMENTS

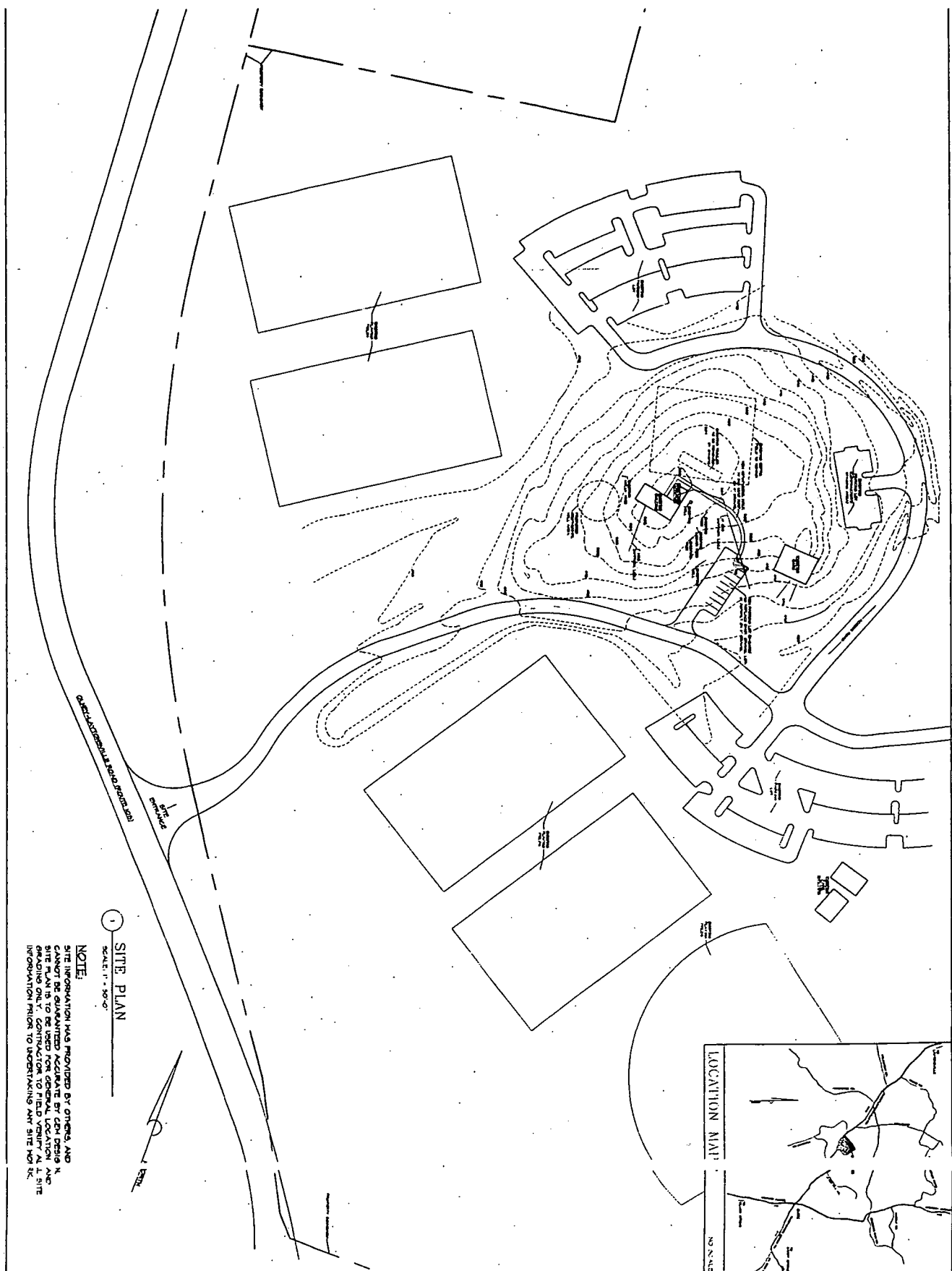
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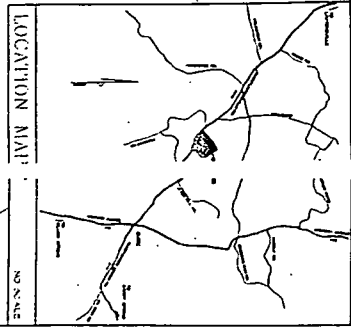






1 SITE PLAN  
SCALE: 1" = 50'-0"

**NOTE:**  
SITE INFORMATION WAS PROVIDED BY OTHERS, AND CANNOT BE GUARANTEED ACCURATE BY CDM DESIGN. THIS SITE PLAN IS TO BE USED FOR GENERAL LOCATION AND PROPOSED CONSTRUCTION TO BE DETERMINED BY THE CONTRACTOR. INFORMATION FROM THIS SITE PLAN IS TO BE USED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS FROM THE LOCAL, STATE, AND FEDERAL GOVERNMENTS.



SPI.1  
SHEET 1 OF 1

NO.	DESCRIPTION	DATE	BY

**Falling Green**  
Restoration and Addition  
4501 Olney-Laytonsville Road, Olney, MD 20832

**CDM DESIGN**  
1000 WASHINGTON AVENUE  
SUITE 200  
BETHESDA, MD 20814  
TEL: 301-461-1000  
FAX: 301-461-1001

DEM DESIGN  
 400 ANDREWS AVENUE  
 SUITE 100  
 ANNAPOLIS, MD 21403  
 TEL: 410-291-1000



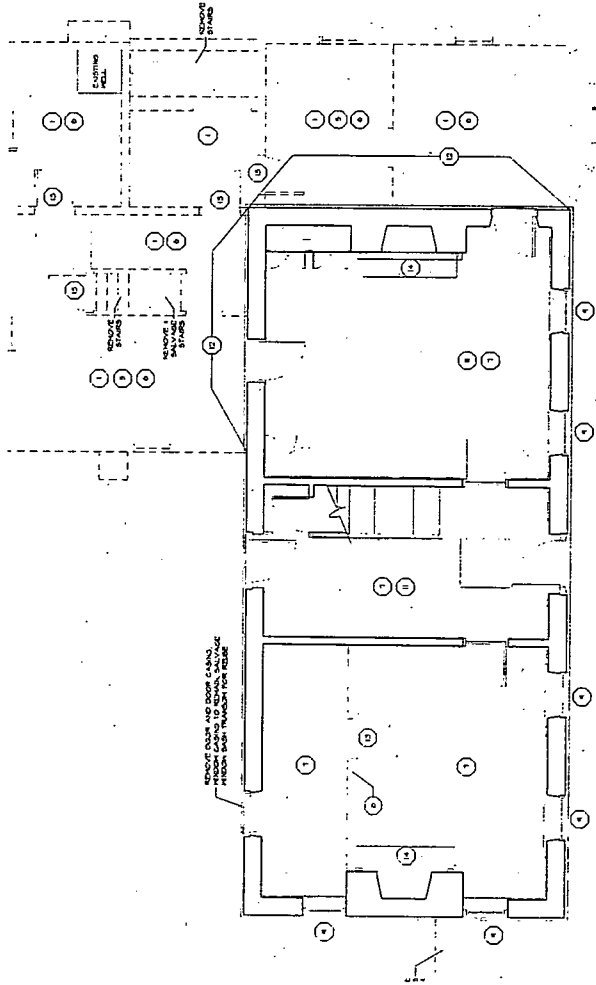
THIS PLAN, SPECIFICATIONS, CONTRACT DOCUMENTS, AND ALL INFORMATION AND MATERIALS HEREON SHALL BE THE PROPERTY OF DEM DESIGN AND SHALL BE KEPT IN CONFIDENCE BY THE CONTRACTOR.

Falling Green  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

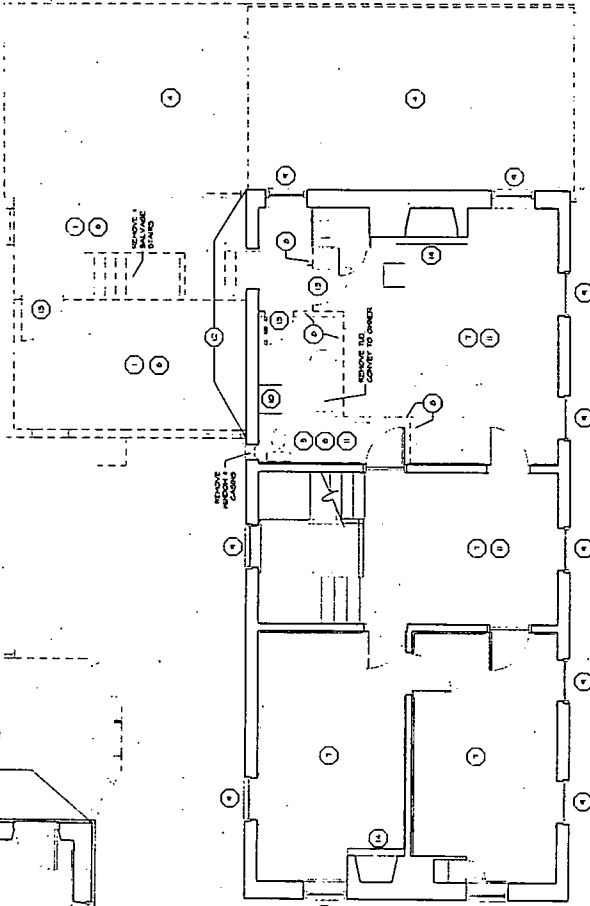
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D1.1  
 SHEET 1 OF 2

- DEMOLITION SCHEDULE**
- EXISTING TO REMAIN
  - - - - - EXISTING TO BE REMOVED
- DEMOLITION NOTES**
- 1 - REMOVE FLOOR WALLS, CEILING FINISHES AND FINISHES, PARTITION, GYPSUM BOARD, AND BRICK.
  - 2 - REMOVE AND SALVAGE STONE FOUNDATION FOR ROSE HOUSE PLANNING AND ROSE PLANNING.
  - 3 - REMOVE PLUMBING FIXTURES, GAPS, ETC.
  - 4 - REMOVE ELECTRICAL FIXTURES, DEVICES, AND CONDUIT.
  - 5 - REMOVE SURFACE MOUNTED CASE, CONDUIT, DEVICES AND DEVICES.
  - 6 - REMOVE PARTITIONS WHERE SHOWN.
  - 7 - REMOVE AND SALVAGE STONE FOUNDATION FOR ROSE HOUSE PLANNING AND ROSE PLANNING.
  - 8 - REMOVE FLOOR FINISHES.
  - 9 - REMOVE PLASTER, GYPSUM BOARD, OR PAINT HIGH DUSTING PAINT.
  - 10 - REMOVE DOOR AND FRAME.
  - 11 - REMOVE INTERIORS COVER.
  - 12 - REMOVE CERAMIC.



1 FIRST FLOOR PLAN - DEMOLITION  
 SCALE: 1/4" = 1'-0"



2 SECOND FLOOR PLAN - DEMOLITION  
 SCALE: 1/4" = 1'-0"

14



THE CLIENT, CONTRACTOR, AND ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND THE LOCAL JURISDICTION IN WHICH THE PROJECT IS TO BE CONDUCTED.

Falling Green  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

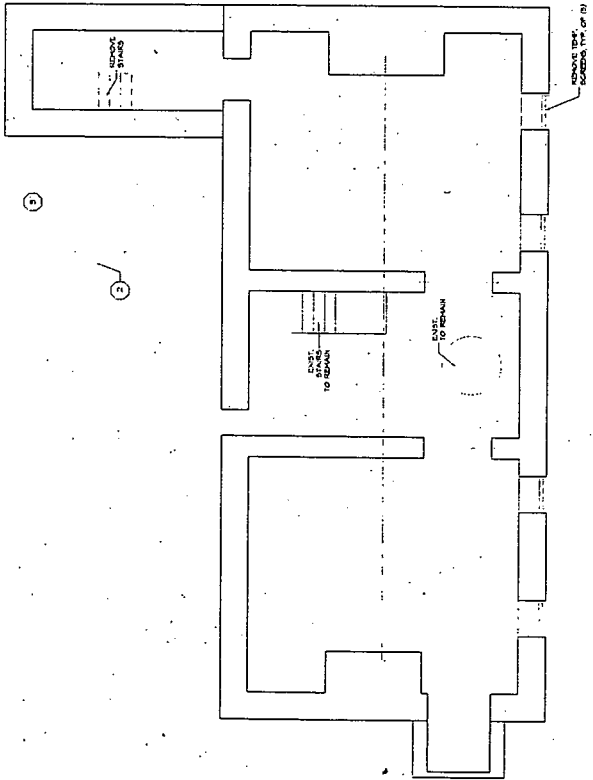
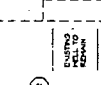
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DEMOLITION SCHEDULE

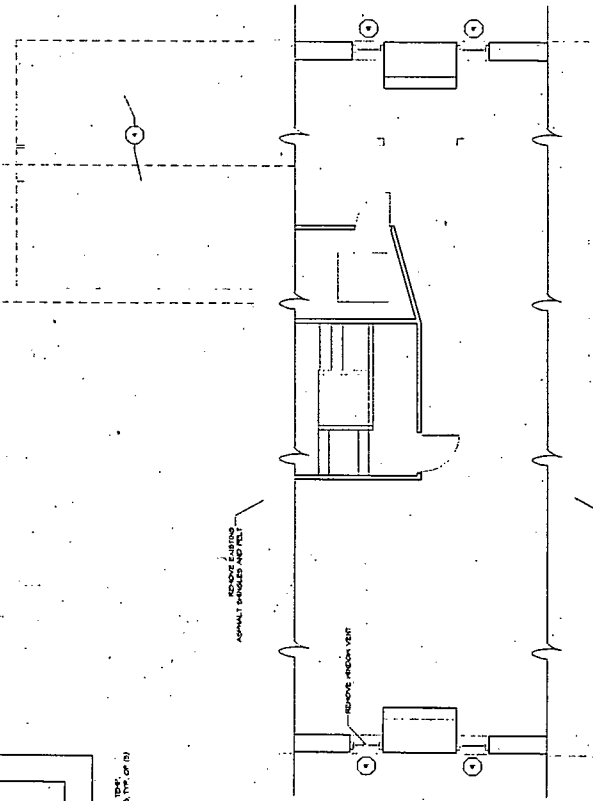
- 1 REMOVE FLOOR FINISH, LETS, PARTS AND PRODUCT
- 2 REMOVE EXISTING CONCRETE, FLOOR FINISH, PARTS AND PRODUCT
- 3 REMOVE AND SAVE STONE FOUNDATION FOR REUSE
- 4 REMOVE EXISTING AND NEW FOUNDATION
- 5 REMOVE PLUMBING FIXTURES, SUPPLIES, AND PARTS FROM EXISTING STRUCTURE
- 6 REMOVE EXISTING MASONRY, BRICK, BLOCK, AND CONCRETE
- 7 REMOVE EXISTING ROOFING, SHEATHING, TRUSS, AND JOIST
- 8 REMOVE EXISTING ROOFING, SHEATHING, TRUSS, AND JOIST
- 9 REMOVE EXISTING ROOFING, SHEATHING, TRUSS, AND JOIST
- 10 REMOVE EXISTING ROOFING, SHEATHING, TRUSS, AND JOIST
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- 12 REMOVE EXISTING ROOFING, SHEATHING, TRUSS, AND JOIST
- 13 REMOVE EXISTING ROOFING, SHEATHING, TRUSS, AND JOIST
- 14 REMOVE EXISTING ROOFING, SHEATHING, TRUSS, AND JOIST
- 15 REMOVE EXISTING ROOFING, SHEATHING, TRUSS, AND JOIST

DEMOLITION SCHEDULE

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED

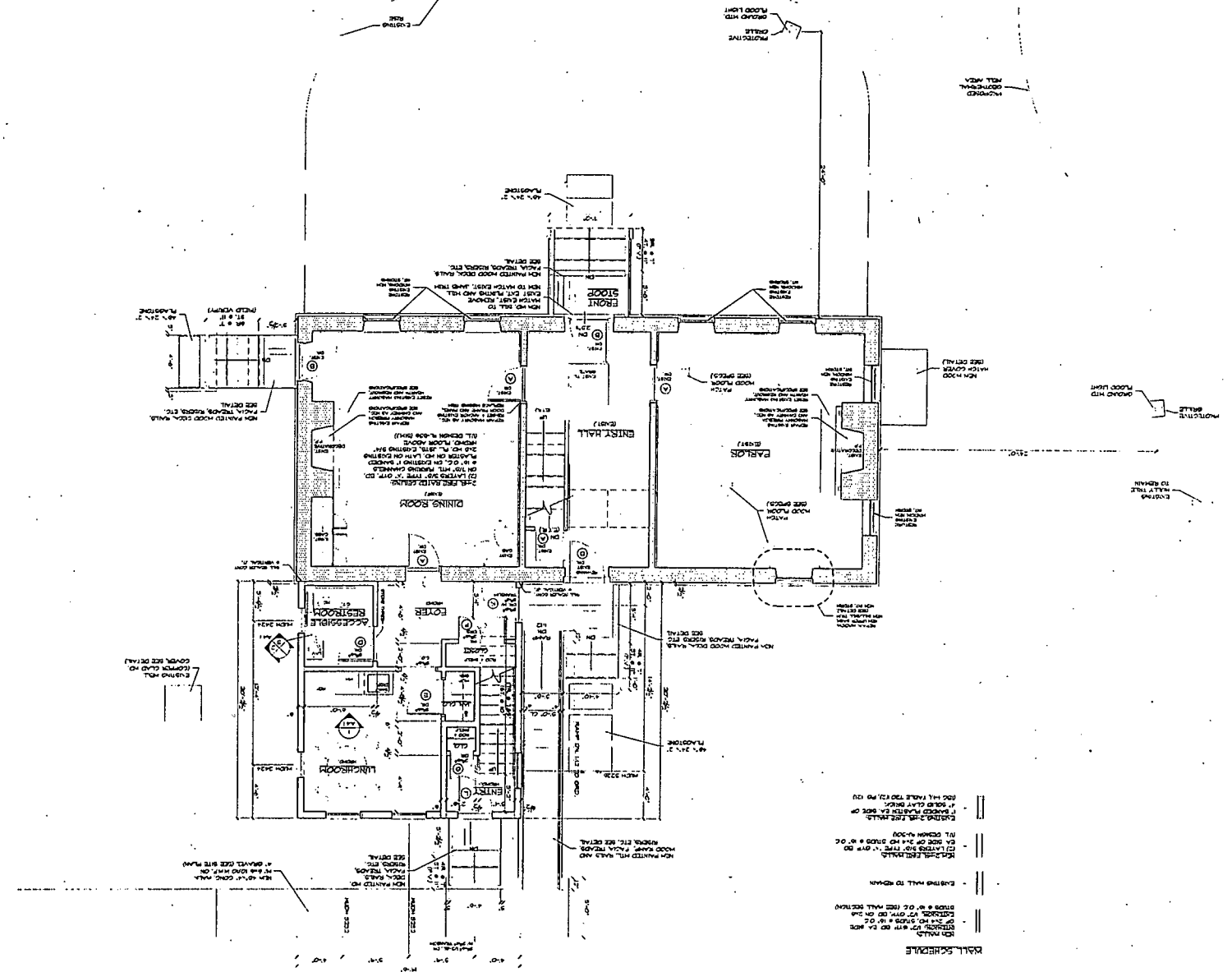


1 BASEMENT FLOOR PLAN - DEMOLITION  
 SCALE: 1/4" = 1'-0"

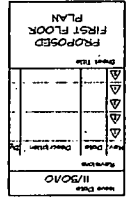


2 ATTIC FLOOR PLAN - DEMOLITION  
 SCALE: 1/4" = 1'-0"

1 FIRST FLOOR PLAN - PROPOSED



11/20/00  
 SHEET 1 OF 3  
 A1.1



Falling Green  
 Restoration and Addition  
 4501 Olney-Laytonville Road, Olney, MD 20832

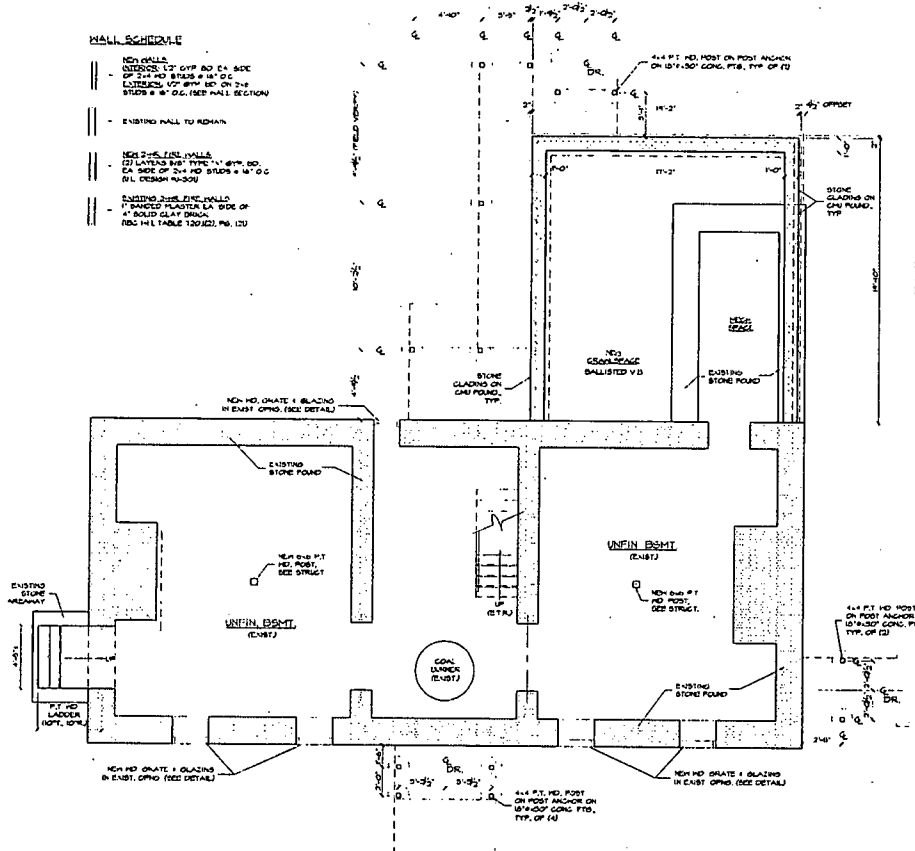
CEM DESIGN  
 100 HARBOR AVENUE  
 ANNAPOLIS, MARYLAND  
 21403-5000  
 410.294.0000  
 410.294.0000



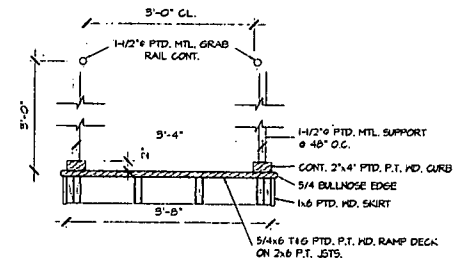


**WALL SCHEDULE**

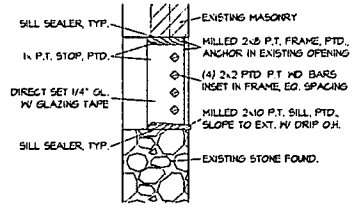
- NEW WALLS: (1) 2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C. (2) 1/2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C. (3) 1/2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C. (4) 1/2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C. (5) 1/2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C.
- EXISTING WALL TO REMAIN
- NEW STONE VENEER: (1) 2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C. (2) 1/2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C. (3) 1/2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C. (4) 1/2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C. (5) 1/2" GYP BO 1/2" CA SIDE OF 2" HD BRKS @ 16" O.C.
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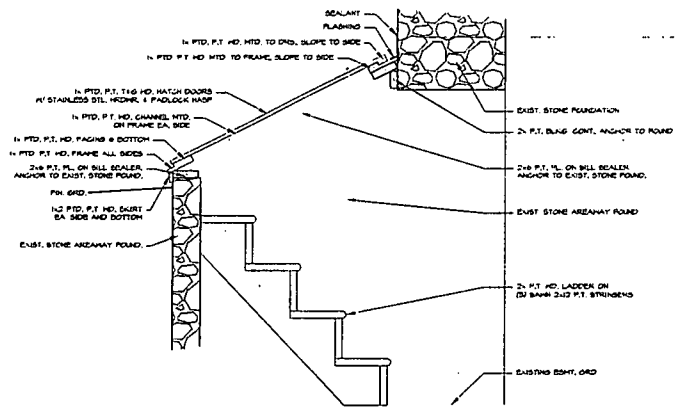
**1 BASEMENT FLOOR PLAN - PROPOSED**  
SCALE: 1/4" = 1'-0"



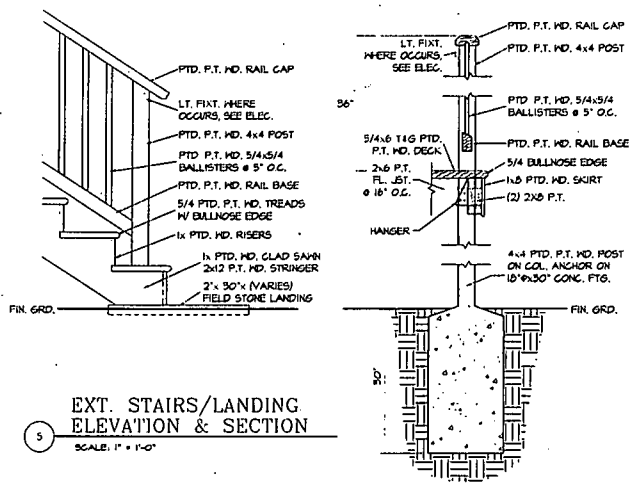
**4 EXT. ACCESS RAMP SECTION**  
SCALE: 1" = 1'-0"



**2 BASEMENT WINDOW GRATE DETAIL**  
SCALE: 1" = 1'-0"



**3 BASEMENT AREAWAY DETAIL**  
SCALE: 1" = 1'-0"



**5 EXT. STAIRS/LANDING ELEVATION & SECTION**  
SCALE: 1" = 1'-0"

**CEM DESIGN**  
535 ANDERSON AVENUE  
ROCKVILLE, MARYLAND  
20850

DESIGNER'S CERTIFICATION  
I, THE DESIGNER, HEREBY  
CERTIFY THAT I AM A  
LICENSED PROFESSIONAL  
ENGINEER IN THE STATE OF  
MARYLAND, AND THAT I  
AM THE DESIGNER OF THE  
WORK SHOWN ON THESE  
PLANS AND SPECIFICATIONS.

**Falling Green**  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

Rev.	Date	Description
1		
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**A1.3**  
SHEET 3 OF 8

18

CEM DESIGN  
 800 ANDERSON AVENUE  
 SUITE 200  
 BETHESDA, MD 20814

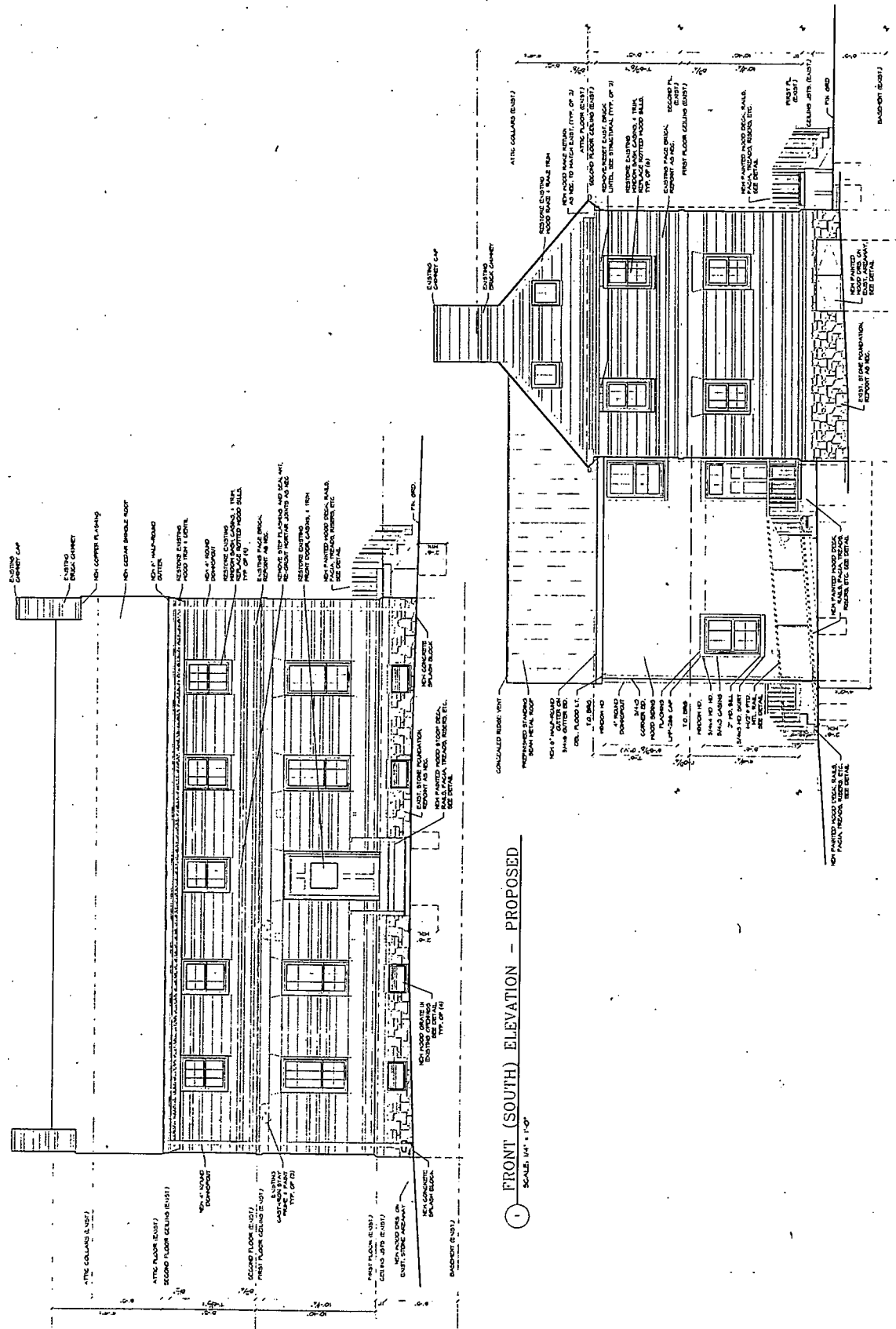
PROJECT NO. 11/30/10

PROPOSED ELEVATIONS  
 SHEET 4 OF 6

Falling Green  
 Restoration and Addition  
 4501 Olney-Laytonville Road, Olney, MD 20832

Rev	Date	Description
1	11/30/10	

A2.1  
 SHEET 4 OF 6



1 FRONT (SOUTH) ELEVATION - PROPOSED  
 SCALE: 1/4" = 1'-0"

2 SIDE (WEST) ELEVATION - PROPOSED  
 SCALE: 1/4" = 1'-0"

19

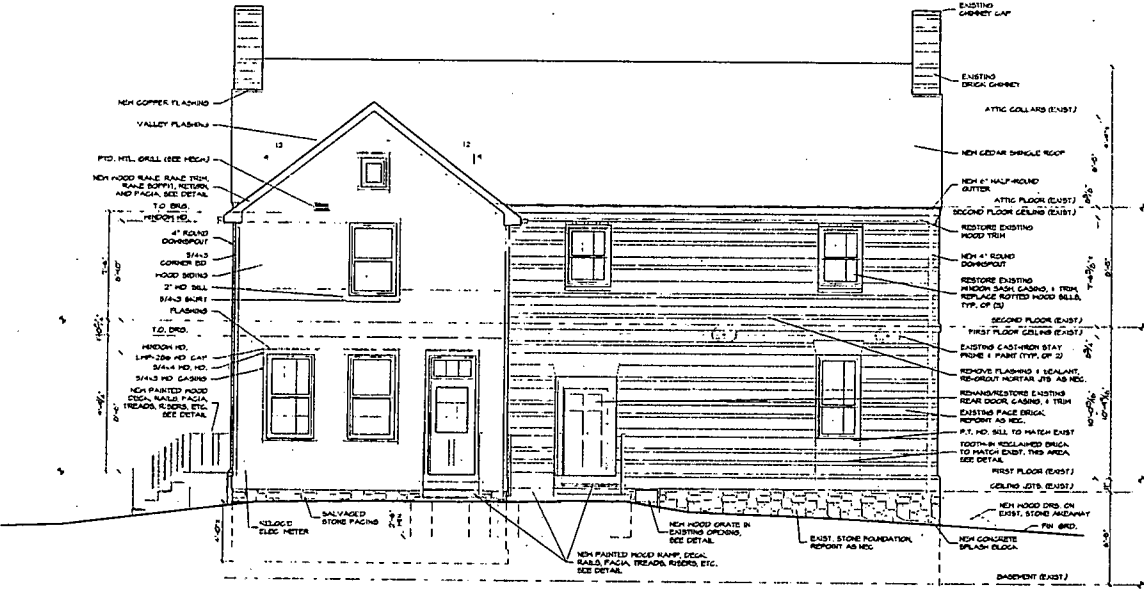
PROFESSIONAL ENGINEER  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL ARCHITECT  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL INTERIOR DESIGNER  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL PLANNING  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL SURVEYOR  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL ENGINEER  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL ARCHITECT  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL INTERIOR DESIGNER  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL PLANNING  
 LICENSE NO. 15010  
 REGISTERED PROFESSIONAL SURVEYOR  
 LICENSE NO. 15010

Falling Green  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

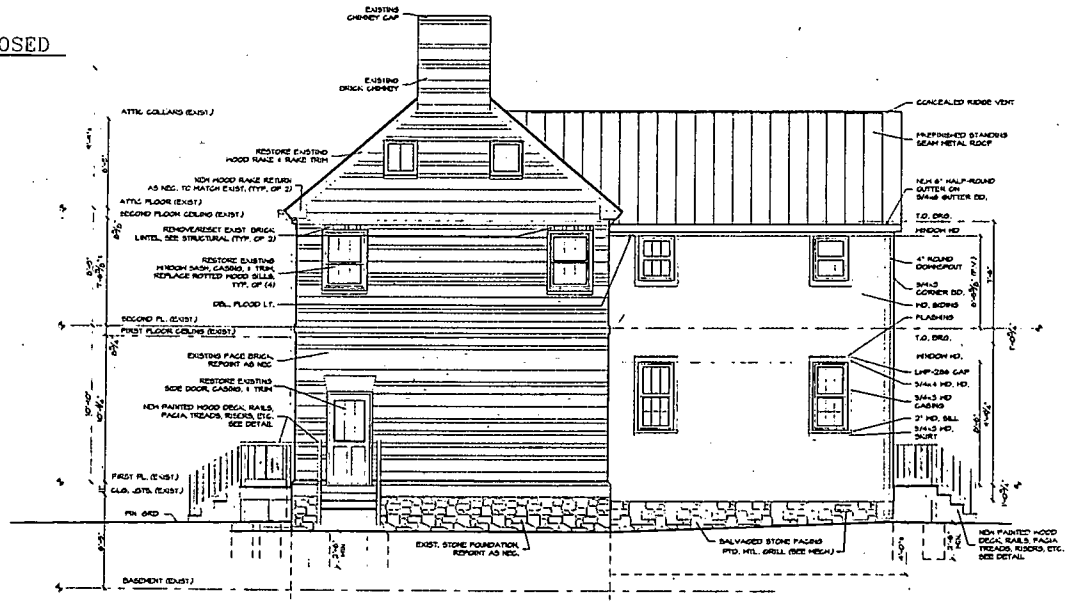
Issue Date: 11/30/10

Rev.	Date	Description

Sheet Title: PROPOSED EXTERIOR ELEVATIONS



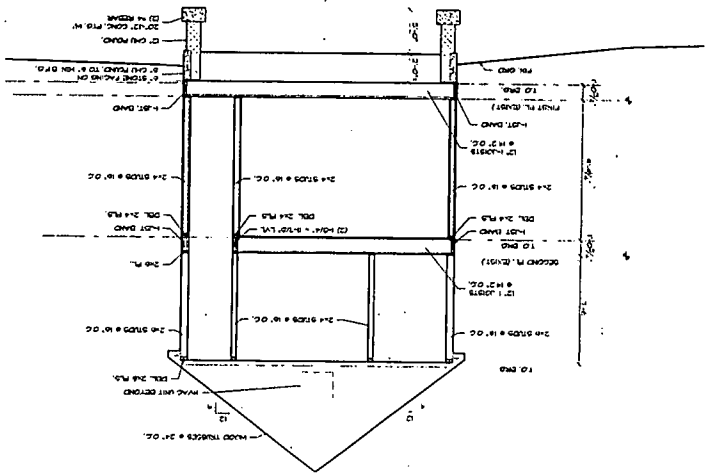
1 REAR (NORTH) ELEVATION - PROPOSED  
 SCALE: 1/4" = 1'-0"



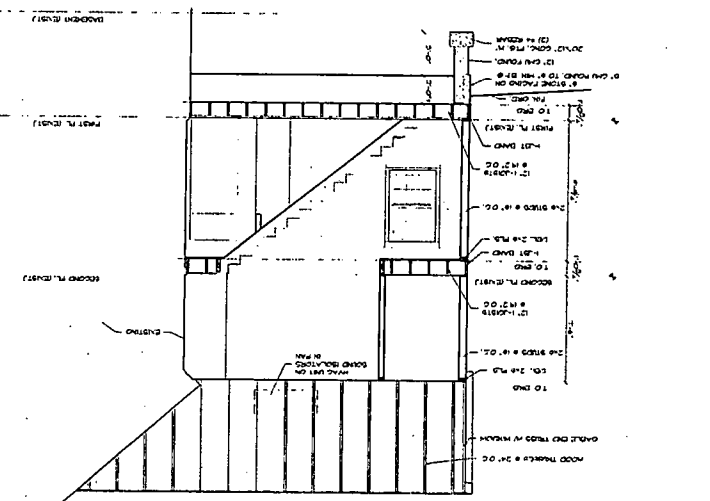
2 SIDE (EAST) ELEVATION - PROPOSED  
 SCALE: 1/4" = 1'-0"

20

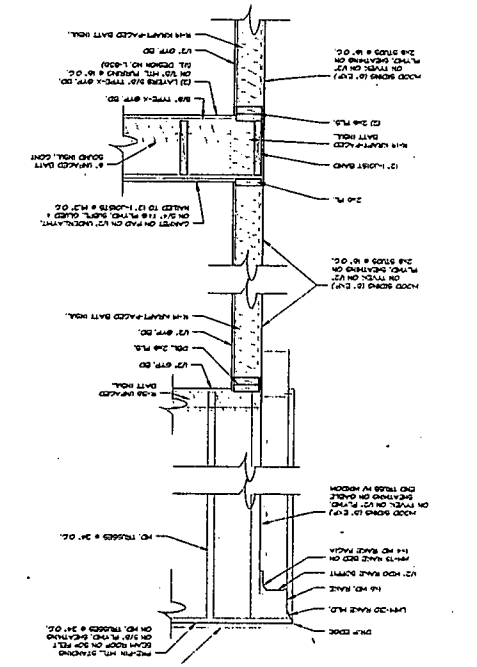
2 E/W SECTION THROUGH PROPOSED ADDITION  
SCALE: 1/4" = 1'-0"



1 N/S SECTION THROUGH PROPOSED ADDITION  
SCALE: 1/4" = 1'-0"

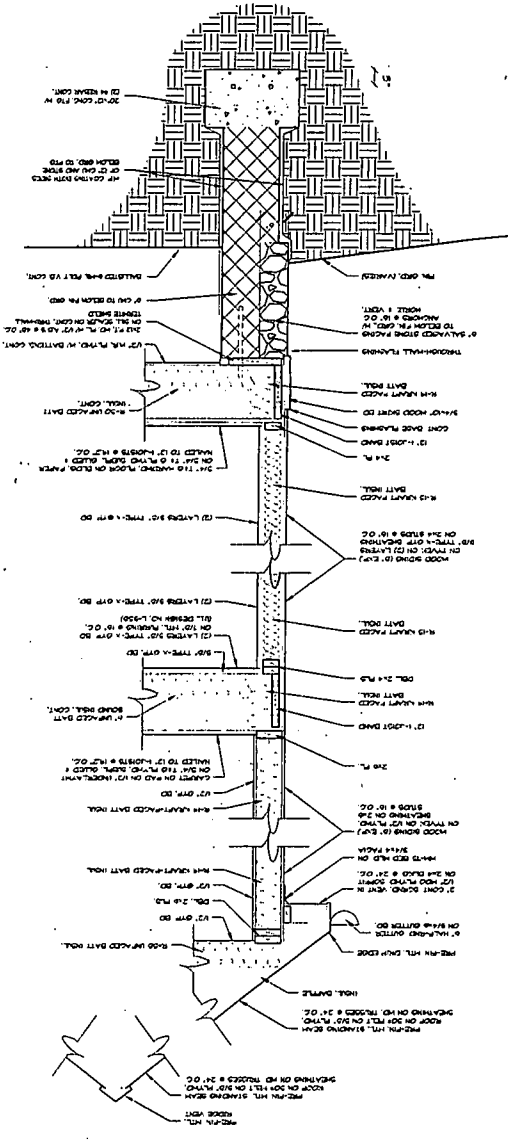


3 GABLE SECTION @ PROPOSED ADDITION  
SCALE: 1/4" = 1'-0"



FIRE RATED FLOOR/RAIL SEPARATE  
ALL LATHING SHALL BE TYPE 'L' OR 'D'.  
ALL JOISTS SHALL BE TYPE 'L' OR 'D'.  
ALL STUDS SHALL BE TYPE 'L' OR 'D'.  
ALL RAFTERS SHALL BE TYPE 'L' OR 'D'.  
ALL SHEATHING SHALL BE TYPE 'L' OR 'D'.  
ALL DIMENSIONS IN PARENTHESSES ARE MINIMUMS.  
ALL DIMENSIONS IN SQUARES ARE MINIMUMS.  
ALL DIMENSIONS IN CIRCLES ARE MINIMUMS.  
ALL DIMENSIONS IN TRIANGLES ARE MINIMUMS.  
ALL DIMENSIONS IN DIAMETERS ARE MINIMUMS.  
ALL DIMENSIONS IN ROUNDED SQUARES ARE MINIMUMS.  
ALL DIMENSIONS IN ROUNDED TRIANGLES ARE MINIMUMS.  
ALL DIMENSIONS IN ROUNDED CIRCLES ARE MINIMUMS.  
ALL DIMENSIONS IN ROUNDED DIAMETERS ARE MINIMUMS.

4 WALL SECTION @ PROPOSED ADDITION  
SCALE: 1/4" = 1'-0"

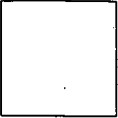


Section	Scale	Notes
1	1/4" = 1'-0"	N/S SECTION THROUGH PROPOSED ADDITION
2	1/4" = 1'-0"	E/W SECTION THROUGH PROPOSED ADDITION
3	1/4" = 1'-0"	GABLE SECTION @ PROPOSED ADDITION
4	1/4" = 1'-0"	WALL SECTION @ PROPOSED ADDITION

Falling Green  
Restoration and Addition  
4501 Oney-Laytonville Road, Oney, MD 20832

CEM DESIGN  
100 ANDERSON AVENUE  
ROCKVILLE, MARYLAND  
20850  
TEL: 301-584-8800  
WWW.CEMDESIGN.COM



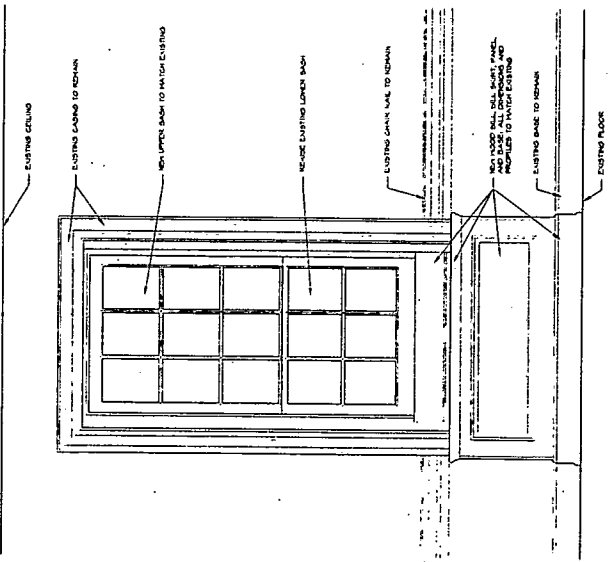


THESE PLANS, SPECIFICATIONS, AND CONDITIONS SHALL BE READ IN CONJUNCTION WITH THE GENERAL CONDITIONS OF CONTRACT AND THE SUPPLEMENTAL SPECIFICATIONS TO THE GENERAL CONDITIONS OF CONTRACT WHICH ARE ATTACHED TO THESE PLANS.

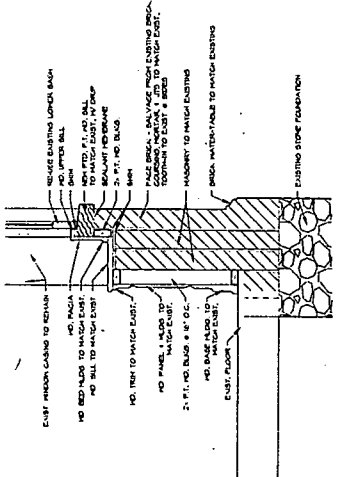
Falling Green  
 Restoration and Addition  
 4501 Olney-Laytonville Road, Olney, MD 20832

Revision	Date	Description
1	11/30/10	
2		
3		
4		

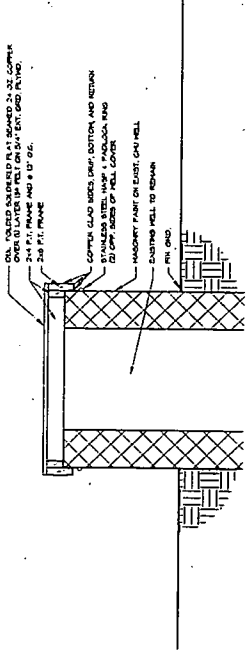
SECTION AND DETAILS



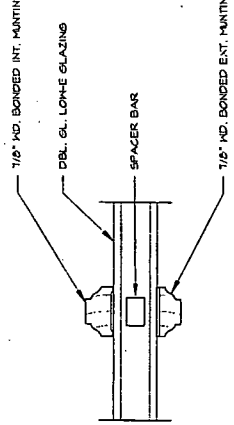
1 ELEVATION @ NEW SILL PANEL  
 SCALE: 1/4" = 1'-0"



2 SECTION @ NEW SILL PANEL  
 SCALE: 1/4" = 1'-0"



3 WELL CAP DETAIL SECTION  
 SCALE: 1/4" = 1'-0"



4 NEW WINDOW MUNTIN DETAIL  
 SCALE: 1/4" = 1'-0"

**DESIGN CRITERIA**

**BUILDING CODE**

INTERNATIONAL RESIDENTIAL CODE 2009 (IRC 2009)  
INTERNATIONAL BUILDING CODE 2009 (IBC 2009)  
MONTGOMERY COUNTY BUILDING CODE AMENDMENTS

**LOADS**

WOOD FRAMED FLOOR w/ PLYWOOD DECK + MEP 15 PSF  
WOOD FRAMED ROOF w/ PLYWOOD DECK + SHINGLES + MEP 15 PSF

**LIVE LOADS**

MINIMUM LOADS:  
ROOF 30 PSF  
ALL INTERIOR WALLS AND PARTITIONS SHALL BE DESIGNED TO RESIST A MINIMUM HORIZONTAL LOAD 5 PSF

OFFICE (TABLE 1607.1) OFFICES 50 PSF

RESIDENTIAL (TABLE R301.5)  
ATTICS WITH STORAGE 20 PSF  
ATTICS WITHOUT STORAGE 10 PSF  
DECKS 40 PSF  
EXTERIOR BALCONIES 60 PSF  
FIRE ESCAPES 40 PSF  
PASSENGER VEHICLE GARAGES 50 PSF  
ROOMS OTHER THAN SLEEPING ROOMS 40 PSF  
SLEEPING ROOMS 30 PSF  
STAIRS 40 PSF

**SNOW LOAD**

P<sub>g</sub> (GROUND SNOW LOAD) = 25 PSF  
S = 1.0  
C<sub>e</sub> = 1.0  
C<sub>t</sub> = 1.0  
P<sub>f</sub> (FLAT-ROOF SNOW LOAD) = 20 PSF

**HANDRAILS / GUARDRAILS**

- HANDRAILS AND GUARDRAILS SHALL BE DESIGNED TO RESIST A LOAD OF 50 PLF APPLIED IN ANY DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE STRUCTURE.
- HANDRAIL AND GUARDRAIL ASSEMBLIES SHALL BE ABLE TO RESIST A SINGLE CONCENTRATED LOAD OF 200 LBS APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP, AND HAVE ATTACHMENT DEVICES AND SUPPORTING STRUCTURE TO TRANSFER THIS LOADING TO APPROPRIATE STRUCTURAL ELEMENTS OF THE BUILDING (THIS LOADING NEED NOT ACT CONCURRENTLY WITH THE LOADS SPECIFIED ABOVE).
- INTERMEDIATE RAILS, BALUSTERS, AND PANEL FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 LBS.

**WIND LOAD**

V<sub>3s</sub> = 90 MPH  
I = 1.0  
EXPOSURE = B  
G<sub>z</sub> = -1.038  
MINIMUM WIND LOAD = 20 PSF

**CASTING**

S<sub>cs</sub> = 1.0  
S<sub>cs</sub> = 0.91  
SITE CLASS = D  
SEISMIC DESIGN CATEGORY = B

DETACHED ONE AND TWO FAMILY DWELLING LOCATED IN SEISMIC DESIGN CATEGORY C ARE EXEMPT FROM THE SEISMIC REQUIREMENTS OF THIS CODE.

**GENERAL**

- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE STABILITY AND SAFETY DURING CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO, THE ADDITION OF SHEETING, SHORING, TEMPORARY BRACING, GUYS, AND TIEDOWNS. THE CONTRACTOR SHALL PROVIDE SHORING AND BRACING NECESSARY TO PROTECT EXISTING AND ADJACENT STRUCTURES.
- STRUCTURAL DOCUMENTS SHALL BE USED WITH OTHER CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, M/E/P, AND SITE DOCUMENTS. COORDINATE WITH THESE DOCUMENTS, ALL FLOOR AND ROOF OPENINGS, DEPRESSIONS, DIMENSIONS, AND SLOPES, ETC. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING CONSTRUCTION LOADS SUCH THAT THESE LOADS DO NOT EXCEED THE DESIGN LIVE LOADS NOTED ABOVE. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED DURING CONSTRUCTION TO SUPPORT CONSTRUCTION LOADS UNTIL SUCH TIME THAT THE STRUCTURE IS ABLE TO SUPPORT THE DESIGN LIVE LOADS NOTED.
- SECTIONS AND DETAILS SHOWN ON THE STRUCTURAL DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS THAT DO NOT HAVE A SPECIFIC SECTION INDICATED.
- TYPICAL DETAILS APPLY AT ALL APPROPRIATE LOCATIONS AND ARE NOT GENERALLY CUT ON PLANS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TYPICAL DETAIL APPLICATIONS.
- FOR INCONSISTENCIES BETWEEN GENERAL NOTES, SPECIFICATIONS AND CONSTRUCTION DOCUMENTS, THE STRICTER REQUIREMENT SHALL APPLY, AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND MISCELLANEOUS ITEMS INCLUDING BUT NOT LIMITED TO CLIPS, INSERTS, TIES, ANCHOR STRAPS, HANGERS, BOLTS, AND OTHER FASTENERS REQUIRED TO COMPLETE THE WORK.

**FOUNDATIONS**

- FOUNDATION DESIGN IS BASED ON THE PRESCRIPTIVE VALUES OF THE INTERNATIONAL BUILDING CODE (IBC 2009) TABLE 1601.1 AND TABLE 1804.2 WITH ONE OF THE ASSUMED GROUP 1 SOIL TYPES OF EITHER SV, SP, SM, SC, GM OR GC. SOIL CLASSIFICATION SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER OR QUALIFIED SOILS TECHNICIAN PRIOR TO COMMENCEMENT OF ANY FOUNDATION WORK. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR THE DESIGN.
- ASSUMED SOIL BEARING VALUE OF 1,500' PSF TO BE VERIFIED BY GEOTECHNICAL ENGINEER OR QUALIFIED SOILS TECHNICIAN.
- FOUNDATION WALLS HAVE BEEN DESIGNED USING THE FOLLOWING PROPERTIES:  
PASSIVE PRESSURE 150 PSF/FT  
AT-REST PRESSURE 60 PSF/FT  
ACTIVE PRESSURE 45 PSF/FT  
COEFFICIENT OF FRICTION 0.25  
HORIZONTAL SURCHARGE 35 PSF
- ON-SITE SOILS TYPES OF EITHER OL, MH, CH, OH ARE NOT PERMITTED TO BE USED AS BACKFILL MATERIAL. BACKFILL FOR FOUNDATION WALLS AND SITE RETAINING WALLS SHALL BE PLACED IN MAXIMUM 8 INCH LOOSE HORIZONTAL LIFTS AND CONSIST OF GRANULAR (SP, SM, SC) SOIL TYPES. BACKFILL DENSITY SHOULD BE HELD WITHIN THE RANGE OF 90 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557). SOILS USED IN COMPACTED FILLS SHOULD ALSO BE FREE OF DEBRIS AND FIBROUS ORGANIC MATERIAL. THEY SHOULD HAVE A LIQUID LIMIT LESS THAN 45 AND A PLASTIC INDEX LESS THAN 20. PARTICLES LARGER THAN 4 INCHES IN DIAMETER SHOULD NOT BE INCLUDED IN THE COMPACTED FILL.
- ALL FOOTINGS SHALL PROJECT AT LEAST 1'-0" INTO UNDISTURBED NATURAL SOIL OR COMPACTED CONTROLLED FILL HAVING A BEARING VALUE AT LEAST EQUAL TO THAT SPECIFIED ABOVE.
- BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 2'-6" BELOW FINISHED GRADE OR AS REQUIRED BY LOCAL CODE REQUIREMENTS. FOOTING ELEVATIONS INDICATED ON DRAWINGS HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION PROVIDED BY OTHERS AND MAY NOT VIOLATE CRITERIA ESTABLISHED ABOVE. FOOTING ELEVATIONS SHALL BE LOWERED AS SITE CONDITIONS WARRANT FOR POOR SOIL CONDITIONS OR AS REQUIRED TO FACILITATE SITE UTILITIES OR EXISTING CONDITIONS.
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, WALL FOOTINGS SHALL BE 12" DEEP AND PROJECT BEYOND EACH FACE OF WALL. FOOTINGS SUPPORTING MASONRY WALLS ARE TO BE REINFORCED WITH 3#5 LONGITUDINAL CONTINUOUS BOTTOM BARS.
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, FOUNDATION DRAINS SHALL RUN THE ENTIRE BUILDING FOOTPRINT AND SHALL BE CONSTRUCTED USING A 4" DIA. PERFORATED PIPE WRAPPED WITH 12"x12" OF CRUSHED STONE AND FILTER FABRIC.
- ALL DISTURBED EARTH UNDER FOOTINGS SHALL BE REPLACED WITH LEAN CONCRETE.
- ALL BEARING STRATA SHALL BE ADEQUATELY UNRAINED BEFORE FOUNDATION CONCRETE IS PLACED.
- NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (2 HORIZONTAL TO ONE VERTICAL) TO AN EXISTING FOOTING OR STRUCTURE WALL.
- DO NOT PLACE CONCRETE OVER FROZEN SOIL.
- CENTERLINE OF FOOTING SHALL MATCH CENTERLINE OF COLUMN, PEBESTAL AND/OR PIER UNLESS SHOWN OTHERWISE.

**UNDERPINNING**

- METHOD OF UNDERPINNING SHALL BE DETERMINED AND INSTALLED BY A SPECIALTY CONTRACTOR EXPERIENCED IN THIS TYPE OF WORK.
- UNDERPINNING SHALL BE PERFORMED AT EXISTING FOUNDATIONS AS REQUIRED BY SITE CONDITIONS TO LOWER EXISTING FOUNDATIONS. SPECIALTY CONTRACTOR SHALL DETERMINE EXTENT AND APPROPRIATE SEQUENCES BASED ON FIELD CONDITIONS AND PROPOSED CONSTRUCTION.
- FIELD VERIFY ELEVATIONS OF EXISTING FOOTINGS, UTILITIES, ETC. PRIOR TO PREPARING UNDERPINNING PLAN, OR ADJUST IN FIELD DURING CONSTRUCTION AS FIELD CONDITIONS ARE EXPOSED.
- UNDERPINNING PIERS SHALL EXTEND A MINIMUM OF 1'-0" BELOW BOTTOM OF NEW SLAB OR FOUNDATION ELEVATION OR AS INDICATED ON DRAWINGS. ALTERNATE METHODS OF UNDERPINNING MAY HAVE DIFFERENT CRITERIA.
- UNDERPINNING PIERS SHALL BE INSTALLED IN 4'-0" ± ALTERNATE SECTIONS OR AS INDICATED ON UNDERPINNING DRAWINGS. NO OPEN UNDERPINNING PIT SHALL BE CLOSER THAN 12'-0" TO ANOTHER OPEN PIT. FULLY DRYPACK BETWEEN TOP OF PIER AND BOTTOM OF EXISTING FOUNDATION PRIOR TO EXCAVATION OF NEXT PIER IN SEQUENCE. OPEN EXCAVATION SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER OR QUALIFIED SOILS TECHNICIAN PRIOR TO PLACING CONCRETE.
- EXCEPT AS INDICATED OTHERWISE, UNDERPINNING CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH  $f'_c = 2500$  PSI.
- UNDERPINNING SHOP DRAWINGS BEARING THE SEAL AND SIGNATURE OF THE RESPONSIBLE DESIGNER SHALL BE SUBMITTED FOR APPROVAL.

**CONCRETE**

- ALL CONCRETE CONSTRUCTION INCLUDING DETAILING, FABRICATION, PLACEMENT OF REINFORCING, MIXING, HANDLING, PLACING, FINISHING, AND CURING SHALL CONFORM TO ACI 'STRUCTURAL CONCRETE FOR BUILDINGS' (ACI 301), ACI 'MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES' (ACI-315), AND 'ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI-318).
- ALL CONCRETE SHALL CONFORM TO ASTM C94. MINIMUM COMPRESSIVE STRENGTH AND MAXIMUM WATER/CEMENT RATIO SHALL BE AS FOLLOWS:

CONCRETE PROPERTIES				
STRUCTURE TYPE	$f'_c$ 28 DAY MINIMUM COMPRESSIVE STRENGTH (PSI)	WATER/CEMENT RATIO (AIR ENTRAINMENT)	AIR CONTENT (PERCENT)	WATER/CEMENT RATIO (NON-AIR ENTRAINMENT)
FOUNDATIONS	3,000	0.59	6% ± 1%	-
INTERIOR SLAB ON GRADE, INTERIOR WALLS & PIERS	3,000	0.59	4% ± 1%	0.68
EXTERIOR SLAB ON GRADE & PADS	4,500	0.45	6% ± 1%	-
EXTERIOR FOOTINGS, EXTERIOR WALLS, BASEMENT WALLS, GARAGE SLABS ON GRADE, & UNDERPINNING	3,500	0.50	6% ± 1%	-

**NOTES:**

A. CONCRETE TO RECEIVE A SMOOTH, DENSE, HARD-TROWLED FINISH SHALL NOT BE AIR ENTRAINMENT

- CONTRACTOR SHALL PROVIDE CONCRETE MIX DESIGN DATA CONFORMING TO CHAPTER 5 OF ACI 318 FOR EACH TYPE AND STRENGTH OF CONCRETE SPECIFIED. MIX DESIGN DATA SHALL INCLUDE CONCRETE STRENGTH, SLUMP, AIR ENTRAINMENT, PROPOSED AGGREGATES, ADMIXTURES, POZZOLANS AND LABORATORY TEST DATA.
- MATERIALS USED IN CONCRETE MIXES SHALL CONFORM TO THE FOLLOWING STANDARDS:  
• PORTLAND CEMENT CONFORMING TO ASTM C150  
• FLY ASH CLASS C & F CONFORMING TO ASTM C618. FLY ASH SHALL BE LIMITED TO A MAXIMUM OF 20% OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT AND SHALL NOT BE USED IN COLD WEATHER AND EXTERIOR APPLICATIONS.  
• GROUND GRANULATED BLAST-FURNACE SLAG GRADE 100 & 120 CONFORMING TO ASTM C999. SLAG SHALL BE LIMITED TO A MAXIMUM OF 50% OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IN TYPICAL APPLICATIONS AND 25% IN COLD WEATHER AND EXTERIOR APPLICATIONS.  
• AIR-ENTRAINED ADMIXTURES CONFORMING TO ASTM C260  
• ADDITIONAL ADMIXTURES SHALL CONFORM TO ASTM C494 AND ASTM C1017
- CONCRETE AGGREGATES SHALL CONFORM TO THE FOLLOWING:  
• AGGREGATES USED IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C330  
• AGGREGATES USED IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C330  
• MAXIMUM AGGREGATE SIZE FOR CONCRETE 1 IN.  
• MAXIMUM AGGREGATE SIZE FOR PEA-GRAVEL CONCRETE 3/8 IN.
- PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP OF 3/8 IN. ± 1 IN. AT THE POINT OF PLACEMENT. CONCRETE CONTAINING HIGH-RANGE WATER REDUCERS (HRWR) SHALL HAVE A SLUMP OF 4 IN. TO 8 IN.
- PROVIDE 1 IN. MINIMUM VERTICAL EXPANSION JOINTS AT 100 FT. OC. AND VERTICAL CONTROL JOINTS AT 25 FT. OC. AT ALL EXPOSED CONCRETE WALLS (EXCEPT BASEMENT WALLS). COORDINATE JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- OWNER SHALL RETAIN THE SERVICES OF A QUALIFIED TESTING AGENCY TO PROVIDE TESTING OF CONCRETE TO INCLUDE COMPRESSIVE STRENGTH, TEMPERATURE, SLUMP AND AIR ENTRAINMENT.
- ALL STRUCTURAL MEMBERS SHALL BE POURED TO THEIR FULL DEPTHS IN ONE OPERATION. CONTRACTOR SHALL PROVIDE LOCATIONS OF CONSTRUCTION JOINT LOCATIONS FOR REVIEW.

**REINFORCEMENT STEEL**

- CONCRETE REINFORCING SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:  
• DEFORMED BARS ASTM A615, GRADE 60  
• DEFORMED BARS (WELDABLE) ASTM A706  
• DEFORMED BARS (EPOXY-COATED) ASTM A775 & A615, GR. 60  
• BARS WELDED WIRE MESH ASTM A185
- FABRICATE AND PROVIDE STANDARD SUPPORTING ACCESSORIES IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315.
- UNLESS NOTED OTHERWISE, REINFORCING SHALL BE CONTINUOUS WITH CLASS B LAP SPLICES. HOOKS SHALL BE STANDARD HOOKS, AND WALL INTERSECTIONS SHALL HAVE CORNER/L-BARS. LAP WELDED WIRE MESH SUCH THAT THE OVERLAP OF THE OUTERMOST CROSS-VIERS OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS-VIERS PLUS 2 IN. UNDO. REFER TO TYPICAL DETAILS FOR ADDITIONAL DETAILING REQUIREMENTS.
- ALL TOP REINFORCING STEEL AND BEAM STIRRUPS IN BALCONIES, PARKING SLABS AND WEATHER-EXPOSED LOCATIONS SHALL BE EPOXY COATED.
- CONCRETE PROTECTION FOR REINFORCEMENT:  
• CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 IN.  
• CONCRETE EXPOSED TO EARTH OR WEATHER 2 IN.  
• NO. 6 AND LARGER 2 IN.  
• NO. 5 AND SMALLER 1 1/2 IN.  
• FRAMED SLABS, PARKING SLAB TOP BARS W/ EPOXY COATING, AND JOISTS 3/4 IN.  
• BEAM PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS 1 1/2 IN.  
• INTERIOR FACES OF WALLS 1 IN.  
• COLUMN PRIMARY REINFORCEMENT 2 IN.  
• SLABS ON GRADE TOP THIRD OF THICKNESS
- CONTRACTOR MAY SUBSTITUTE WELDED WIRE MESH AT SLABS ON GRADE AND DECK SUPPORTED SLABS WITH SYNTHETIC FIBER, STEEL FIBER OR A BLENDED SYNTHETIC/STEEL FIBER MIX. CONTRACTOR SHALL SUBMIT PRODUCT DATA AND MANUFACTURER'S RECOMMENDATION FOR REVIEW AND APPROVAL. SUBSTITUTION IS NOT PERMITTED AT EXPOSED CONCRETE SURFACES AND SURFACES TO RECEIVE A HARD-TROWLED FINISH.

**CEM DESIGN**  
430 ANDERSON AVENUE  
ROCKVILLE, MARYLAND  
301 984 0883

PROFESSIONAL ENGINEER  
I HAVE REVIEWED THIS SET OF DRAWINGS  
AND I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER  
IN THE STATE OF MARYLAND AND I AM THE  
DESIGNER OF THE WORK SHOWN ON THESE DRAWINGS.  
DATE: \_\_\_\_\_

**Falling Green**  
Restoration and Addition  
4501 Olney-Laytonsville Road, Olney, MD 20832

Issue Date: 11/30/10

Rev.	Date	Description
1		
2		
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Sheet Title: **STRUCTURAL SPECIFICATIONS**

**S0.1**  
SHEET 1 OF 6

24

**SLABS ON GRADE**

- EXCEPT WHERE OTHERWISE NOTED, SLAB ON GRADES SHALL HAVE THE FOLLOWING PROPERTIES:
  - THICKNESS 4 IN
  - REINFORCING 6x6 W/LA/M/LA (TOP THIRD OF THICKNESS)
  - BASE COURSE SUBGRADE 4 IN WASHED GRAVEL
  - POLYETHYLENE VAPOR BARRIER 6 MIL (JOINTS LAPPED A MINIMUM OF 6 IN)
- PROVIDE CONTROL JOINTS AT MAXIMUM 15'-0" OC SPACING EACH WAY IN ALL SLABS ON GRADE. CONTROL JOINTS SHALL BE SAW CUT WITHIN 4 HOURS AFTER FINISHING OR SHALL BE A PRE-FABRICATED MECHANICAL JOINT.
- PROVIDE ADDITIONAL (2) #5 6'-0" REINFORCING AT ALL RE-ENTRANT CORNERS.
- THE CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATIONS OF DEPRESSIONS, OPENINGS, HOUSEKEEPING SLABS AND FINISHES WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- REFER TO GEO TECHNICAL REPORT FOR RECOMMENDATIONS RELATIVE TO SUBGRADE PREPARATION.

**CONCRETE MASONRY**

- CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530, AND "SPECIFICATIONS FOR MASONRY STRUCTURES", ACI 301
- MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY UNIT SHALL BE:
  - TYPICAL 1900 PSI (MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY, F'M SHALL BE 1500 PSI)
- CONCRETE MASONRY SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C90.
- METAL REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO THE FOLLOWING STANDARDS:
  - DEFORMED BARS ASTM A615, GRADE 60
  - DEFORMED BARS (WEL DABLE) ASTM A706
  - DEFORMED BARS (EPOXY COATED) ASTM A775
  - JOINT REINFORCEMENT ASTM A951
  - DEFORMED WIRE ASTM A496
  - WIRE FABRIC ASTM A185
  - ANCHORS, TIES AND ACCESSORIES
    - STRUCTURAL STEEL ASTM A36
    - PLAIN STEEL WIRE ASTM A82
    - COLD-ROLLED CARBON STEEL SHEET ASTM A366
    - STAINLESS STEEL ASTM A167, TYPE 304
- WELDING, WELDING ELECTRODES, AND FLUXES SHALL CONFORM TO AWS D1.4 'STRUCTURAL WELDING CODE - REINFORCED STEEL'
- GROUT SHALL CONFORM TO ASTM C476, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. TESTING SHALL CONFORM TO ASTM C1019. PROVIDE FINE AND COARSE GROUTS APPROPRIATE FOR SIZE OF VOID BEING FILLED. GROUT SHALL HAVE A MINIMUM SLUMP OF 8 INCHES PROVIDED BY SUFFICIENT WATER CONTENT. WATER-REDUCING ADMIXTURES ARE NOT PERMITTED.
- MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S. PCL OR MORTAR CEMENT, MASONRY CEMENT IS NOT PERMITTED FOR CONCRETE MASONRY UNITS (CMU). MORTAR USED BELOW GRADE SHALL BE TYPE 'M'
- CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND WITH 100% SOLID 'FULL' MORTAR JOINTS (INCLUDING CROSS WEBS), UNQ. PLASTERS SHALL BE BONDED, UNQ. STACK BOND IS NOT PERMITTED.
- REINFORCED CELLS, AND NON-REINFORCED CELLS SPECIFIED TO BE GROUTED SHALL BE FILLED SOLID WITH GROUT. STOP POURS 1/2 INCHES BELOW THE BED JOINT TO FORM A KEY AT FOUR JOINTS CELLS TO RECEIVE REINFORCING SHALL BE CLEAN OF MORTAR DROPPINGS.
- REFER TO TYPICAL DETAILS FOR REINFORCING MINIMUM LAP SPlice LENGTHS. LAP DEFORMED BARS 50 DIA., UNQ.
- HORIZONTAL LADDER-TYPE REINFORCEMENT SHALL BE FABRICATED FROM GALVANIZED COLD-DRAWN STEEL WIRE CONFORMING TO ASTM A82 WITH 3/8" DIA SIDE RODS AND 9 GA. CROSS RODS. PROVIDE AS FOLLOWS:
  - TYPICAL 16 INCHES ON CENTER, UNQ
  - AT BELOW GRADE WALLS 8 INCHES ON CENTER
  - AT PARAPETS 8 INCHES ON CENTER
  - AT WALL OPENINGS PROVIDE ADD'L REINF. NOT MORE THAN 8 INCHES ABOVE AND BELOW OPENING. TERMINATE 2 FT. BEYOND OPENING
- PROVIDE CONTINUITY AT INTERSECTIONS AND CORNERS USING PREFABRICATED T-SHAPED AND L-SHAPED UNITS. LAP JOINT REINFORCING A MINIMUM OF 6 INCHES.
- TIES, ANCHORS, METAL ACCESSORIES AND JOINT REINFORCEMENT SHALL BE PROTECTED FROM CORROSION AS FOLLOWS:
  - JOINT REINFORCEMENT GALVANIZED IN ACCORDANCE WITH ASTM A951
  - METAL ACCESSORIES IN EXTERIOR WALLS HOT DIPPED GALVANIZED WITH 1.5 OUNCES PER SQ. FOOT MINIMUM COATING IN ACCORDANCE WITH ASTM A153
  - METAL ACCESSORIES IN INTERIOR WALLS MILL GALVANIZED WITH 0.1 OUNCE PER SQ. FOOT MINIMUM COATING IN ACCORDANCE WITH ASTM A641
  - ALL SHEET METAL ANCHORS AND TIES GALVANIZED CLASS G-60
  - ANCHORS, WALL TIES AND METAL ACCESSORIES TYPE 304 STAINLESS STEEL COMPLYING WITH ASTM A167
- VERTICAL CONTROL JOINTS IN CMU WALLS SHALL BE PROVIDED AT 30 FEET ON CENTER MAX, UNLESS NOTED OTHERWISE.
- SIDES, TOPS AND BASES OF ALL LOAD BEARING AND NON-LOAD BEARING CMU WALLS SHALL BE ANCHORED TO STRUCTURE. REFER TO TYPICAL DETAILS AND SECTIONS FOR ADDITIONAL INFORMATION.

**CONCRETE MASONRY**

- PROVIDE MINIMUM VERTICAL WALL REINFORCING AS FOLLOWS, UNQ:
  - EXTERIOR WALLS #5 @32 INCHES ON CENTER
  - INTERIOR BEARING WALLS #4 @48 INCHES ON CENTER
  - STAIR AND ELEVATOR TOWER WALLS #5 @32 INCHES ON CENTER
 REINFORCE THE FIRST CELL AT CORNERS, ENDS OF WALLS AND INTERSECTIONS WITH A MINIMUM OF (1) #5 VERTICAL.
- PROVIDE A MINIMUM OF ONE COURSE 100% SOLID BLOCK, OR A CONTINUOUS BOND BEAM AT BEARING OF JOISTS, BEARING WALLS OR SUPPORTED SLABS.
  - BEAM UNITS SHALL BE OPEN CELL UNITS THAT PERMIT VERTICAL REINFORCING TO PASS THROUGH, WHERE BOND BEAMS COURSES STEP DUE TO SLOPING CONDITIONS. LAP REINFORCING A MINIMUM OF 4 FEET. PROVIDE MINIMUM BOND BEAM REINFORCING AS FOLLOWS, UNQ:
    - EXTERIOR WALLS (2) #4 xCONT BELOW EACH FRAMING LEVEL
    - INTERIOR BEARING WALLS (1) #5 xCONT BELOW EACH FRAMING LEVEL
    - INTERIOR NON-LOAD BEARING WALLS (2) #4 xCONT BELOW EACH FRAMING LEVEL
- PROVIDE LINTELS AT ALL MASONRY OPENINGS LARGER THAN 12 IN. PROVIDE SLEEVES AT ALL PIPE PENETRATIONS. MULTIPLE SLEEVE PENETRATIONS SHALL BE SPACED A MINIMUM OF 24 IN. OC AND A MINIMUM OF 4 FT. FROM WALL ENDS.
- PROVIDE DAMP-PROOFING ON EXTERIOR FACE OF MASONRY WALLS BELOW GRADE.
- ALL PORTIONS OF BEARING WALLS HAVING A HORIZONTAL CROSS SECTION OF 4 SQUARE FEET OR LESS SHALL BE OF SOLID MASONRY DOWN TO FOOTINGS.
- USE BUCKETS TO MEASURE MATERIALS FOR MIXING MORTAR. GROUT SHALL BE SAND AND CEMENT, 8 BAGS OF CEMENT PER CUBIC YARD.

**STONE VENEER**

- REFER TO ARCHITECTURAL DRAWINGS FOR VENEER DETAILS INCLUDING, BUT NOT LIMITED TO STONE TYPE, LAYOUT, COURSING, SUPPORT ELEVATIONS, FLASHING, WATERPROOFING AND CONTROL JOINTS.
- MORTAR SHALL CONFORM TO ASTM C270, TYPE N, PCL OR MORTAR CEMENT. PROVIDE FULL MORTAR BEDS AT ALL JOINTS.
- GROUT USED IN COLLAR JOINTS SHALL BE FINE TYPE, CONFORM TO ASTM C476, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- UNLESS OTHERWISE SPECIFIED, AT STONE OR FACE CMU VENEER, PROVIDE A STEEL ANGLE LINTEL AT ALL MASONRY OPENINGS FOR EACH 4 IN. OF WALL THICKNESS AS FOLLOWS:
  - 1/2"x3/8"x3/4" (LLV) FOR OPENINGS UP TO 4'-0"
  - 1/2"x3/8"x3/4" (LLV) FOR OPENINGS 4'-1" TO 6'-0"
  - 1/2"x3/8"x3/4" (LLV) FOR OPENINGS 6'-1" TO 8'-0"
 PROVIDE 6 IN. OF BEARING EACH END. STEEL LINTELS USED IN EXTERIOR WALLS SHALL BE HOT DIPPED GALVANIZED.
- THE DESIGN OF ARCHITECTURAL PRECAST ELEMENTS INTEGRATED WITH STONE VENEER INCLUDING LINTELS AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONNECTIONS INCLUDED IN STRUCTURAL SECTIONS SHALL BE CONSIDERED SCHEMATIC CONCEPTS ONLY. CONTRACTOR SHALL SUBMIT PRECAST SHAPE DRAWINGS, CONNECTIONS AND DESIGN CALCULATIONS FOR REVIEW.
- STONE VENEER SHALL BE ANCHORED TO STRUCTURAL BACKING SYSTEMS PER ACI 530 AND WITH THE FOLLOWING GUIDELINES:
  - MAXIMUM DISTANCE BETWEEN INSIDE FACE OF VENEER AND STRUCTURAL STUD OR CMU IS LESS THAN OR EQUAL TO 4 1/2 IN.
    - ONE GALVANIZED ANCHOR PER 24" SQ. FT. OF WALL AREA
    - MAXIMUM VERTICAL SPACING OF 18 IN. OC.
    - MAXIMUM HORIZONTAL SPACING OF 32 IN. OC.
    - PLACE ANCHORS WITHIN 12 IN. OF OPENINGS
  - CONTRACTOR SHALL SUBMIT MANUF. PRODUCT DATA SUPPORTING THE ANCHORS MEET OR EXCEED DESIGN LOAD CRITERIA AND SPECIFICATIONS OF ACI 530
  - MASONRY TIE ASSEMBLIES SHALL BE SCREWED (NOT NAILED) TO WOOD AND LIGHTGAUGE STUD BACKUP.
  - PROVIDE DOVETAIL ANCHOR SLOTS AT 24" OC. WHERE MASONRY ABUTS CONCRETE.
  - MAXIMUM DISTANCE BETWEEN INSIDE FACE OF VENEER AND STRUCTURAL STUD OR CMU EXCEEDS 4 1/2 IN.
    - CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT MANUFACTURER PRODUCT DATA INCLUDING SPACING CRITERIA, CALCULATIONS, TESTING DATA, AND INSTALLATION RECOMMENDATIONS THAT ANCHORS MEET OR EXCEED DESIGN LOAD CRITERIA.
- CONTRACTOR SHALL COORDINATE EXPANSION JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS. REFER TO THE FOLLOWING GUIDELINES FOR EXPANSION JOINT PLACEMENT (EXPANSION JOINTS SHALL BE CONTINUOUS FOR FULL HEIGHT OF WALL):
  - MAXIMUM SPACING OF 20 FT. OC. (SYMMETRICAL PLACEMENT AROUND OPENINGS)
  - WITHIN 2 FT. OF CORNERS
  - AT RE-ENTRANT CORNERS
  - AT OFFSETS AND SETBACKS
  - CHANGES OF WALL HEIGHTS
  - CHANGES IN SUPPORT ELEVATIONS
  - WALL INTERSECTIONS
  - TRANSITIONS FROM INTERIOR TO EXTERIOR CONDITIONS

**WOOD I-JOISTS**

- I-JOISTS SHALL BE AN 'I' SHAPED MEMBER PREFABRICATED USING SAWN OR STRUCTURAL COMPOSITE LUMBER FLANGES AND STRUCTURAL-USE PANEL WEBS BONDED TOGETHER WITH EXTERIOR ADHESIVES. I-JOISTS SHALL BE MANUFACTURED IN A PLANT ADHERING TO THE QUALITY STANDARDS OF ENGINEERED WOOD SYSTEMS (EWS), UNDER THE SUPERVISION OF A THIRD-PARTY INSPECTION AGENCY.
- I-JOISTS AND CONNECTORS SHALL BE SELECTED BASED ON MANUFACTURER PRODUCT CAPACITIES MEETING THE SPECIFIED PERFORMANCE CRITERIA NOTED ON THE PLANS INCLUDING MEMBER DEPTH, SPACING, SPAN AND DESIGN LOADS. MEMBERS SHALL MEET THE FOLLOWING DEFLECTION CRITERIA:
  - ROOF RAFTERS: DEAD + LIVE L/240  
LIVE L/360
  - FLOOR JOISTS: DEAD + LIVE L/360  
LIVE L/480  
LIVE (W/ STONE OR CERAMIC)/720
- SUBMIT SHOP DRAWINGS INDICATING MEMBER LAYOUTS, DESIGN SPANS, DESIGN LOADS AND DESIGN CATALOGUES PRIOR TO FABRICATION.
- I-JOISTS SHALL BE SHIPPED AND STORED PER MANUFACTURER'S RECOMMENDATIONS.
- I-JOISTS SHALL NOT BE USED IN APPLICATIONS PERMANENTLY EXPOSED TO WEATHER. I-JOISTS SHALL NOT BE INSTALLED WHERE THEY WILL REMAIN IN DIRECT CONTACT WITH CONCRETE OR MASONRY.
- I-JOISTS INSTALLED BENEATH BEARING WALLS SHALL HAVE FULL DEPTH BLOCKING PANELS OR SQUASH BLOCKS TO TRANSFER WALL LOADS.
- INSTALL WEB STIFFENERS AT ALL INTERIOR SUPPORTS, HANGERS, AND BLARING LOCATIONS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE CONTINUOUS SOLID BLOCKING OR CROSS-BRIDGING LINES AT 8'-0" OC MAX. ONE LINE MINIMUM. PROVIDE ADDITIONAL BRIDGING FOR MANUFACTURED WOOD PRODUCTS AS SPECIFIED BY MANUFACTURER.
- ATTACH SOLID BLOCKING AT 4'-0" OC MAX (FOR 2 BAYS), AT ALL EXTERIOR/INTERIOR WALLS PARALLEL WITH FLOOR/ROOF FRAMING. MEMBERS DIRECTLY BENEATH WALLS PARALLEL WITH FLOOR/ROOF FRAMING SHALL BE SOLID MEMBERS MATCHING THE SPECIFIED DEPTH. I-JOISTS SHALL NOT BE USED.
- PROVIDE SOLID BLOCKING OR CRIPPLE STUDS BELOW ALL COLUMNS/POSTS, TO TRANSFER LOAD DIRECTLY TO FRAMING.
- PROVIDE DOUBLE I-JOISTS UNDER ALL PARTITIONS PARALLEL TO JOIST SPAN. PROVIDE DOUBLE JOISTS AROUND ALL FLOOR AND ROOF OPENINGS, UNQ.
- PENETRATIONS & NOTCHES IN JOISTS, ARE NOT PERMITTED WITHOUT APPROVAL OF MANUFACTURER.

**GLUED LAMINATED STRUCTURAL MEMBERS**

- MATERIALS, MANUFACTURE, AND QUALITY CONTROL SHALL BE IN ACCORDANCE WITH THE PROPOSED COMMERCIAL STANDARD 'STRUCTURAL GLUED LAMINATED TIMBER' OF THE AITC AND CURRENT WCLA GLUED LAMINATED STANDARDS.
- ADHESIVE SHALL MEET THE REQUIREMENTS FOR WEI SERVICE CONDITION. APPEARANCE OF MEMBERS SHALL BE 'ARCHITECTURAL APPEARANCE GRADE'.
- A COAT OF END SEALER SHALL BE SUPPLIED TO ENDS OF ALL MEMBERS AS SOON AS PRACTICAL AFTER END TRIMMING.
- SURFACES OF MEMBERS SHALL BE SEALED WITH PENETRATING SEALER AND MEMBERS SHALL BE INDIVIDUALLY WRAPPED.
- THE FABRICATOR SHALL FURNISH CONNECTING AND SUPPORTING HARDWARE AND ALL OTHER ACCESSORIES NECESSARY FOR THE SYSTEM TO PERFORM AS INDICATED.
- SUBMIT COMPLETE SHOP DRAWINGS FOR APPROVAL.

**CEM DESIGN**  
830 ANDERSON AVENUE  
ROCKFORD, ILL. 61103  
301.984.0882

PROFESSIONAL SEAL  
I, THE SIGNATURE OF THE ENGINEER  
HEREON, IS A TRUE AND CORRECT  
STATEMENT OF THE DESIGN AND  
CALCULATIONS FOR THE STRUCTURE  
HEREON, AND I AM A LICENSED ENGINEER  
UNDER THE LAWS OF THE STATE  
OF MARYLAND, LICENSE NO. 10080  
EXPIRATION DATE

**Falling Green**  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

Issue Date	11/30/10	
Revision	Date	Description
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STRUCTURAL SPECIFICATIONS, cont.

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SHEET 2 OF 6

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**STRUCTURAL WOOD FRAMING**

- STRUCTURAL LUMBER SHALL CONFORM TO AFPA'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, WITH SUPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION". LUMBER GRADING INFORMATION SHALL COMPLY WITH PROCEDURES OF DOC PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD".
- STRUCTURAL LUMBER SHALL HAVE 19% MAXIMUM MOISTURE CONTENT WITH THE FOLLOWING MINIMUM PROPERTIES:
  - WALL PLATES: SOUTHERN PINE NO.2 (OR APPROVED ALTERNATE), VISUALLY GRADED, WITH THE FOLLOWING MINIMUM PROPERTIES:  
F<sub>b</sub> = 1,500 PSI, E = 1,600,000 PSI, F<sub>c</sub> (PERP) = 565 PSI, F<sub>v</sub> = 175 PSI
  - ALL OTHER CONDITIONS: SPRUCE PINE FIR NO.1/NO.2 (OR APPROVED ALTERNATE), VISUALLY GRADED, WITH THE FOLLOWING MINIMUM PROPERTIES:  
F<sub>b</sub> = 875 PSI, E = 1,400,000 PSI, F<sub>c</sub> = 1,150 PSI, F<sub>v</sub> = 135 PSI
- LAMINATED VENEER LUMBER (LVL) SHALL BE AS MANUFACTURED BY TRUS JOIST, OR EQUIVALENT. LVL'S SHALL NOT BE USED IN EXTERIOR APPLICATIONS AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:  
F<sub>b</sub> = 2,600 PSI, E = 1,900,000 PSI, F<sub>v</sub> = 285 PSI.
- PARALLEL STRAND LUMBER (PSL) SHALL BE AS MANUFACTURED BY TRUS JOIST, OR EQUIVALENT. PSL'S SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:  
(BEAMS AND STRINGERS) F<sub>b</sub> = 2,900 PSI, E = 2,000,000 PSI, F<sub>v</sub> = 290 PSI  
(POSTS AND TIMBERS) F<sub>b</sub> = 2,400 PSI, E = 1,800,000 PSI, F<sub>c</sub> = 2,500 PSI  
EXPOSED PSL'S SHALL BE VULCANIZED (CREATED) TO MEET THE FOLLOWING APPLICATIONS:
  - SERVICE LEVEL 1: TREATED MATERIAL USED IN DRY SERVICE (16% MAXIMUM MOISTURE CONTENT)
  - SERVICE LEVEL 2: EXTERIOR APPLICATION IN ABOVE GROUND SERVICE.
  - SERVICE LEVEL 3: EXTERIOR APPLICATION IN CONTACT WITH GROUND OR SATURATED USE.
- LAMINATED STRAND LUMBER (LSL) SHALL BE MANUFACTURED BY TRUS JOIST, OR EQUIVALENT. LSL'S SHALL BE USED IN DRY-USE NON-TREATED APPLICATIONS AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:  
(13C FIBERSTRAND) F<sub>b</sub> = 1,700 PSI, E = 1,300,000 PSI, F<sub>v</sub> = 400 PSI (BEAM ORIENTATION)  
F<sub>v</sub> = 150 PSI (PLANK ORIENTATION)
- PLYWOOD SHALL CONFORM TO APA'S "PLYWOOD DESIGN SPECIFICATION", AND DOC PS 1 "CONSTRUCTION AND INDUSTRIAL PLYWOOD". UNLESS NOTED OTHERWISE, PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION ACROSS SUPPORTS (INCLUDING EXTERIOR WALLS):
  - PLYWOOD FLOOR SHEATHING SHALL BE 3/4" STURD-I-FLOOR, EXPOSURE 1, WITH TONGUE AND GROOVE EDGES, GLUE AND ATTACH SHEATHING ALONG PANEL EDGES WITH 100 NAILS AT 6" OC AND ALONG INTERMEDIATE FRAMING MEMBERS AT 12" OC. FIELD-GLUE SHALL CONFORM TO APA SPECIFICATION ATG-01.
  - PLYWOOD ROOF SHEATHING SHALL BE 3/4" STRUCTURAL 1, EXPOSURE 1, ATTACH SHEATHING ALONG PANEL EDGES WITH 80 NAILS AT 6" OC AND ALONG INTERMEDIATE FRAMING MEMBERS AT 12" OC. PROVIDE PANEL CLIPS AT UNSUPPORTED EDGES AT 12" OC. DO NOT PROVIDE PANEL CLIPS ON ROOFS TO RECEIVE A METAL FINISH. ROOF SHEATHING SHALL BE INSTALLED ON MAIN ROOF MEMBERS PRIOR TO THE INSTALLATION OF OVERFRAMING MEMBERS.
  - PLYWOOD WALL SHEATHING SHALL BE 1/2" STRUCTURAL 1, EXPOSURE 1, EXTERIOR WALLS AND INTERIOR SHEAR WALLS SHALL HAVE 2x BLOCKING AT 4 FEET OC (PANEL EDGES). ATTACH SHEATHING ALONG PANEL EDGES WITH 80 NAILS AT 6" OC AND ALONG INTERMEDIATE FRAMING MEMBERS AT 12" OC.
    - AT EXTERIOR WALLS, EXTEND A SINGLE PLYWOOD PANEL A MINIMUM OF 12" ABOVE AND BELOW DEPTH OF FLOOR ENVELOPE TO SERVE AS A TIE BETWEEN FLOORS.
    - PLYWOOD PANELS AT INTERIOR SHEAR WALLS SHALL HAVE SHEATHING THAT EXTENDS TO THE UNDERSIDE OF THE FLOOR SHEATHING ABOVE. "TOOTH" PLYWOOD AROUND JOISTS/BLOCKING AS NECESSARY.
- FASTENERS SHALL CONFORM TO THE FOLLOWING MINIMUM PROPERTIES:
  - THRU BOLTS SHALL CONFORM WITH ANSI/AISC B18.21 WITH A MINIMUM BENDING YIELD STRENGTH F<sub>y</sub> = 45 KSI (OR ASTM A307)
  - COMMON WIRE NAILS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1667
 

6d	0113" SHANK DIA. 2" LONG	F <sub>y</sub> = 100 KSI
8d	0131" SHANK DIA. 2 1/2" LONG	F <sub>y</sub> = 100 KSI
10d	0148" SHANK DIA. 3" LONG	F <sub>y</sub> = 90 KSI
12d	0148" SHANK DIA. 3 1/2" LONG	F <sub>y</sub> = 90 KSI
16d	0162" SHANK DIA. 3 3/4" LONG	F <sub>y</sub> = 90 KSI
20d	0192" SHANK DIA. 4" LONG	F <sub>y</sub> = 80 KSI
30d	0207" SHANK DIA. 4 1/2" LONG	F <sub>y</sub> = 80 KSI
  - CUSTOM STEEL PLATE CONNECTIONS SHALL CONFORM TO ASTM A36, 1/2" INCH MINIMUM THICKNESS, UND.
  - FASTENERS USED WITH PREFABRICATED CONNECTORS SHALL FOLLOW MANUFACTURER LITERATURE AND RECOMMENDATIONS.
  - CUSTOM STEEL SHEET CONNECTIONS SHALL CONFORM TO ASTM A653, GRADE 33.
  - WOOD SCREWS
 

60	0138" SHANK DIA.	F <sub>y</sub> = 100 KSI
70	0151" SHANK DIA.	F <sub>y</sub> = 90 KSI
80	0164" SHANK DIA.	F <sub>y</sub> = 90 KSI
90	0177" SHANK DIA.	F <sub>y</sub> = 90 KSI
100	0190" SHANK DIA.	F <sub>y</sub> = 80 KSI
120	0216" SHANK DIA.	F <sub>y</sub> = 80 KSI
140	0242" SHANK DIA.	F <sub>y</sub> = 70 KSI
160	0268" SHANK DIA.	F <sub>y</sub> = 70 KSI
180	0294" SHANK DIA.	F <sub>y</sub> = 60 KSI
200	0320" SHANK DIA.	F <sub>y</sub> = 60 KSI
240	0372" SHANK DIA.	F <sub>y</sub> = 45 KSI
- ALL FASTENERS AND PREFABRICATED CONNECTORS (HARDWARE) USED WITH PRESERVATIVE TREATED WOOD SHALL HAVE EITHER A HOT-DIP GALVANIZING GIBS COATING ACCORDING TO ASTM A153 AND A153 OR SHALL BE STAINLESS STEEL TYPE 304 AND 316.
- MINIMUM FASTENING SHALL CONFORM TO IRC TABLE R602.3(1), "FASTENING SCHEDULE".
- WALL TOP AND BOTTOM PLATES ARE DESIGNED AS CONTINUOUS.
  - STAGGER SPLICE LOCATIONS OF MULTIPLE MEMBER PLATES
  - PLATES SHALL BE LAPPED AT ALL BEARING/SHEAR WALL CORNERS
  - PROVIDE 16 GA COVER PLATES AT WALL INTERSECTIONS, CORNERS AND SPLICE LOCATIONS

**STRUCTURAL WOOD FRAMING**

- PRESSURE TREATED LUMBER AND PLYWOOD SHALL BE IMPREGNATED WITH PRESERVATIVE SYSTEMS HAVING MINIMAL RETENTION LEVELS CONFORMING TO AMERICAN WOOD PRESERVERS ASSOCIATION AWPA STANDARD U1-06 (2006 BOOK OF STANDARDS). PRESERVATIVE PRESSURE TREATED (PT) MATERIAL SHALL CONFORM TO AWPA "USE CATEGORY SYSTEM" (UC) AND SHALL BE USED IN THE FOLLOWING CONDITIONS:
  - SILL/TOP PLATES IN CONTACT WITH CONCRETE AND MASONRY: UC3B - A
  - EXPOSED LUMBER NOT IN CONTACT WITH GROUND: UC3B - A
  - EXPOSED LUMBER IN CONTACT WITH GROUND: UC4A - A
  - EXPOSED POSTS: UC4A - A
  - LUMBER AND PLYWOOD USED ABOVE CRAWL SPACES: UC2 - A & F
  - LUMBER & PLYWOOD WITH HEAVY HAZARD OF TERMITE DAMAGE: UC2 - A & F
  - INTERIOR LUMBER & PLYWOOD INTENDED FOR FIRE PROTECTION: UC4A - H
  - EXTERIOR LUMBER & PLYWOOD INTENDED FOR FIRE PROTECTION: UC4B - H
  - LUMBER & PLYWOOD USED IN WOOD FOUNDATIONS: UC4B - A
  - PROVIDE END SEALER AT ALL PT LUMBER IN CONTACT WITH GRADE.
- CONNECTIONS SHALL BE MADE USING PREFABRICATED CONNECTORS MANUFACTURED BY SIMPSON STRONG TIE OR APPROVED EQUIVALENT. INSTALL CONNECTIONS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS AND RECOMMENDATIONS. PROVIDE MINIMUM PREFABRICATED CONNECTORS AS FOLLOWS (UNLESS NOTED OTHERWISE, ON DOCUMENTS):
  - BEAM TO GIRDER CONNECTORS (FLUSH CONDITIONS): HEAVY DUTY CONNECTOR FOR REACTIONS SPECIFIED ON DOCUMENTS
  - ROOF JOIST TO TOP PLATE: SIMPSON H25A CLIP
  - FLOOR/ROOF JOISTS TO LEDGERS AND GIRDERS (FLUSH CONDITIONS): SIMPSON HANGERS TO MEMB MATCH SIZE & CAPACITY
  - 2x TOP PLATE AND 2x WALL STUDS TO STEEL (MAX. STEEL THICK 3/4"): SIMPSON TB14755 SELF-TAPPING SCREW AT 16" OC (STAGGERED TO AVOID SPLITTING)
  - COLUMN CAPS: SIMPSON CCO & ECCO CAPS TO MATCH MEMB SIZE
  - EXTERIOR COLUMN BASES: SIMPSON ABJ TO MATCH MEMB SIZE
  - SHEAR WALL TIES BETWEEN FLOORS (EA END): (2) SIMPSON HD5A
  - SHEAR WALL HD BOLTS AT FOUNDATIONS (EA END): SIMPSON HD5S-SDS23 WITH 3/4" DIA SSTB ANCHOR
- MULTIPLE PLY (BUILT-UP) MEMBERS SHALL BE ATTACHED TOGETHER (ENTIRE LENGTH) WITH THE MINIMUM FASTENER GUIDELINES:
  - 12 PLY 2x STUDS ONE ROW OF STAGGERED 10d NAILS, EACH FACE, AT 6" OC (1" EDGE DISTANCE)
  - 3 PLY 2x STUDS TWO ROWS OF STAGGERED 30d NAILS, EACH FACE AT 8" OC (1 1/2" EDGE DISTANCE)
  - 2 PLY 2x STUDS TWO ROWS OF 10d NAILS AT 12" OC (2" EDGE DISTANCE)
  - 3 PLY 2x & LVL BEAMS: THREE ROWS OF 12d NAILS, EA FACE, AT 12" OC (2" EDGE DISTANCE)
  - 2x PLY 2x & LVL BEAMS LOADED SINGLE FACE: TWO ROWS OF 3/4" DIA THRU-BOLTS (2" EDGE DISTANCE)
  - 3 PLY LVL BEAMS: TWO ROWS OF 1/2" DIA THRU-BOLTS AT 12" (24") OC (2" EDGE DISTANCE)
- PROVIDE CONTINUOUS SOLID BRIDGING OR CROSS-BRIDGING LINES AT 8'-0" OC MAX, ONE LINE MINIMUM. PROVIDE ADDITIONAL BRIDGING FOR MANUFACTURED WOOD PRODUCTS AS SPECIFIED BY MANUFACTURER.
- ATTACH SOLID BLOCKING AT 4'-0" OC MAX (FOR 2 BAYS), AT ALL EXTERIOR/INTERIOR WALLS PARALLEL WITH FLOOR/ROOF FRAMING
- PROVIDE SOLID BRIDGING OR CRIPPLE STUDS BELOW ALL COLUMNS/POSTS, TO TRANSFER LOAD DIRECTLY TO FRAMING.
- PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS PARALLEL TO JOIST SPAN. PROVIDE DOUBLE JOISTS AROUND ALL FLOOR AND ROOF OPENINGS, UNL.
- PENETRATIONS & NOTCHES IN JOISTS, STUDS, BEAMS AND HEADERS ARE NOT PERMITTED WITHOUT APPROVAL OF ENGINEER.
- HEADERS AT NON LOAD BEARING PARTITIONS SHALL BE AS FOLLOWS:
  - 2x 4 VALLS
    - OPENINGS > 4'-0" (2) 2x8 w/ 1/2" PLYWOOD FILLER
    - OPENINGS > 4'-0" TO 6'-0" (2) 2x10 w/ 1/2" PLYWOOD FILLER
    - OPENINGS > 6'-0" TO 9'-0" (2) 2x12 w/ 1/2" PLYWOOD FILLER
  - 2x 6 VALLS
    - OPENINGS UP TO 4'-0" (3) 2x8 w/ 1/2" PLYWOOD FILLER (2 LAYERS)
    - OPENINGS > 4'-0" TO 6'-0" (3) 2x10 w/ 1/2" PLYWOOD FILLER (2 LAYERS)
    - OPENINGS > 6'-0" TO 9'-0" (3) 2x12 w/ 1/2" PLYWOOD FILLER (2 LAYERS)

PROVIDE A MINIMUM OF ONE 2x JACK STUD AT OPENINGS UP TO 6'-0" AND TWO 2x JACK STUDS AT OPENINGS UP TO 9'-0".

**STRUCTURAL STEEL**

- STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTION DESIGN SHALL CONFORM TO AISC'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" MANUAL OF STEEL CONSTRUCTION (THIRTEENTH EDITION, 2005)
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:
  - STRUCTURAL STEEL WF SHAPES: ASTM A992
  - PLATES, CHANNELS, ANGLES AND BARS: ASTM A36
  - ROUND PIPE: ASTM A53, GRADE B
  - HSS RECTANGULAR/SQUARE STRUCTURAL TUBING: ASTM A500, GRADE B - 46 KSI
  - HSS ROUND STRUCTURAL TUBING: ASTM A500, GRADE B - 42 KSI
- BOLTED CONNECTIONS SHALL CONFORM TO RCSC'S "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." BOLTS SHALL BE A MINIMUM 3/4" IN DIAMETER AND SHALL CONFORM TO THE FOLLOWING DESIGNATIONS, UNL:
  - HIGH STRENGTH BOLTS: ASTM A325 OR ASTM A490
  - ANCHOR RODS: ASTM F1554, GRADE 55, WELDABLE.
- WELDING, WELDING ELECTRODES, AND FLUXES SHALL CONFORM TO AWS D11 "STRUCTURAL WELDING".
  - CODE-STEEL WELDS SHALL BE INSTALLED BY WELDERS QUALIFIED IN ACCORDANCE WITH AWS PROCEDURES
  - FOR WELDER QUALIFICATION: ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI (E70XX) FILLER WELDS SHALL BE 3/4" MINIMUM UNLESS NOTED OTHERWISE.
- SHEAR CONNECTORS (HEADED STEEL STUDS) SHALL CONFORM TO ASTM A108, GRADES 1015 THROUGH 1020 (60 KSI TENSILE STRENGTH) AND CONFORM TO AWS D11. SHEAR CONNECTORS SHALL BE WELDED BY AUTOMATIC EQUIPMENT.
- BOLTED CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING GUIDELINES A. EXCEPT AS NOTED, BOLTS SHALL BE BEARING TYPE AND INSTALLED SNUG TIGHT.
- STANDARD CONNECTIONS SHALL BE DETAILED IN ACCORDANCE WITH THE AISC "MANUAL OF STEEL CONSTRUCTION". CONNECTIONS SHALL BE DESIGNED BASED ON THE FOLLOWING CONTROLLING CRITERIA:
  - SERVICE LOAD REACTIONS NOTED ON STRUCTURAL DRAWINGS. FOR STEEL MEMBERS WHOSE REACTIONS ARE NOT SHOWN, THE DESIGN REACTION SHOULD BE HALF OF THE ALLOWABLE BEAM LOAD FOUND IN AISC TABLES (MINIMUM OF 100).
  - MINIMUM LENGTH OF SHEAR CONNECTION SHALL BE 1/2 WHERE IT IS THE DISTANCE BETWEEN WEB TOES OF FILLETS AT TOP AND AT BOTTOM OF WEB. (1=2K)
  - FULL LENGTH SHEAR CONNECTIONS AT BEAM/GIRDER TO COLUMNS.
  - REFERENCE TYPICAL DETAILS FOR ADDITIONAL CONNECTION CRITERIA
- PRIOR TO DETAILING CONNECTIONS FOR THE STRUCTURAL STEEL, THE STEEL FABRICATOR SHALL SUBMIT FOR APPROVAL REPRESENTATIVE DETAILS AND CALCULATIONS FOR EACH TYPE OF STRUCTURAL STEEL CONNECTION TO BE UTILIZED. DETAILS SHALL INCLUDE DESIGN CAPACITIES.
- GROUT UNDER STEEL PLATES SHALL BE NONMETALLIC, SHRINKAGE-RESISTANT GROUT CONFORMING TO ASTM C1107 HAVING A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 5,000 PSI.
- SPLICING AND PENETRATIONS OF STRUCTURAL STEEL MEMBERS IS NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- STEEL SHALL BE FINISHED/PROTECTED AS FOLLOWS, UNL:
  - HOT DIPPED GALVANIZED IN ACCORDANCE TO ASTM A153
  - EXTERIOR STEEL EXPOSED TO WEATHER
  - LINTELS IN EXTERIOR WALL CAVITIES
  - BRICK RELIEF/SHELF ANGLES
  - PAINT WITH ONE COAT OF STANDARD PRIMER PAINT ALL STRUCTURAL STEEL EXCEPT THOSE TO BE GALVANIZED, AREAS TO BE FIELD WELDED, AREAS TO RECEIVE FIRE-PROOFING AND AREAS TO BE EMBEDDED IN CONCRETE
- PROVIDE COLUMN CAP PLATES AS FOLLOWS, UNL:
  - FOR DECK BEARING: 1/2" THICK (PROVIDE WHERE BEAMS DO NOT FRAME INTO BOTH SIDES OF WEB)
  - FOR BEAM BEARING: SEE TYPICAL DETAILS, 3/4" THICK MIN.
  - MOMENT CONNECTIONS: SEE TYPICAL DETAILS
- REFER TO ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS

**CEM DESIGN**  
320 ANDREWS AVENUE  
ROCKVILLE, MD 20850  
TEL: 301-983-0885

PROVIDE SPECIFIC CONNECTIONS, DETAILS AND CALCULATIONS FOR EACH TYPE OF CONNECTION TO BE UTILIZED. DETAILS SHALL INCLUDE DESIGN CAPACITIES. APPROVED BY ME, AND MUST BE DRAWN BY LICENSED ENGINEER UNDER THE SEAL OF THE STATE OF MARYLAND. EXPIRES 06/30/2010

Falling Green  
Restoration and Addition  
4501 Olney-Laytonsville Road, Olney, MD 20832

Issue Date: 11/30/10			
Revisions:			
Rev	Date Description By		
Sheet Title:			
STRUCTURAL SPECIFICATIONS, cont.			

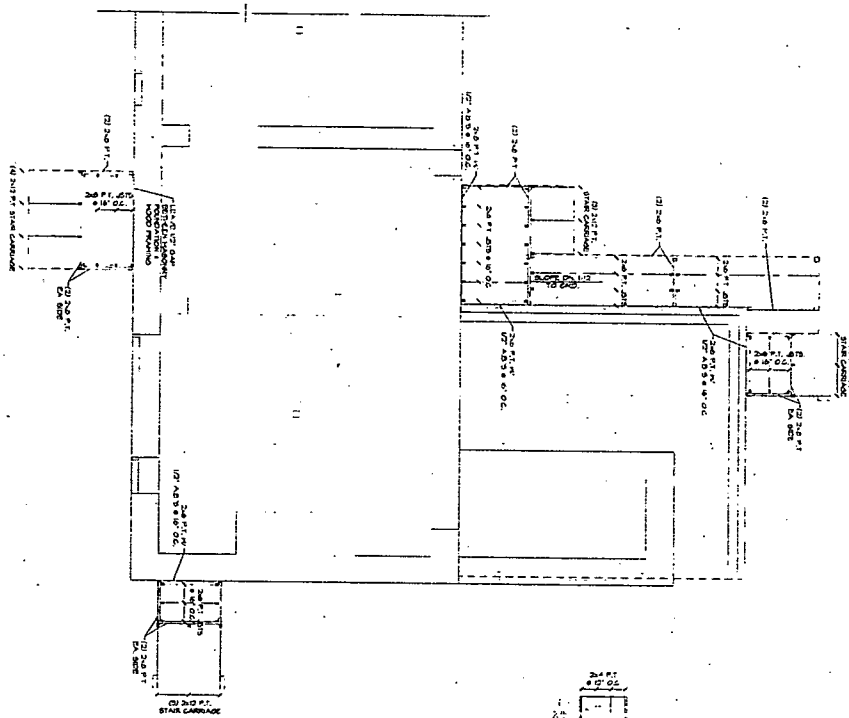
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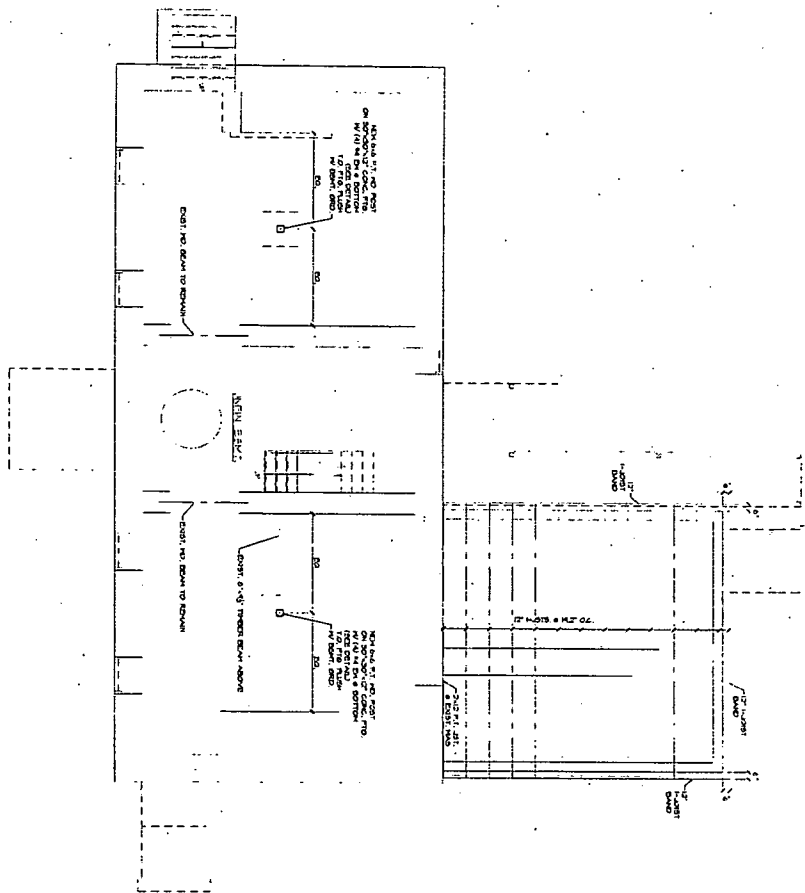
1 FIRST FLOOR DECKS, STAIRS, & RAMP FRAMING PLANS

SCALE: 1/4" = 1'-0"



2 FIRST FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"



S1.1  
SHEET 5 OF 6

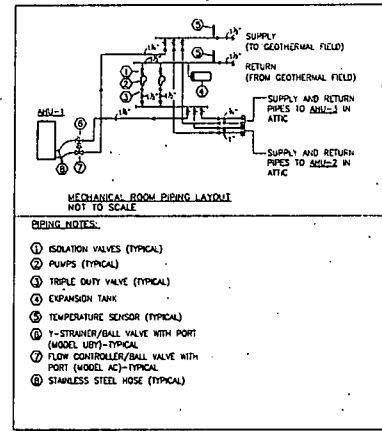
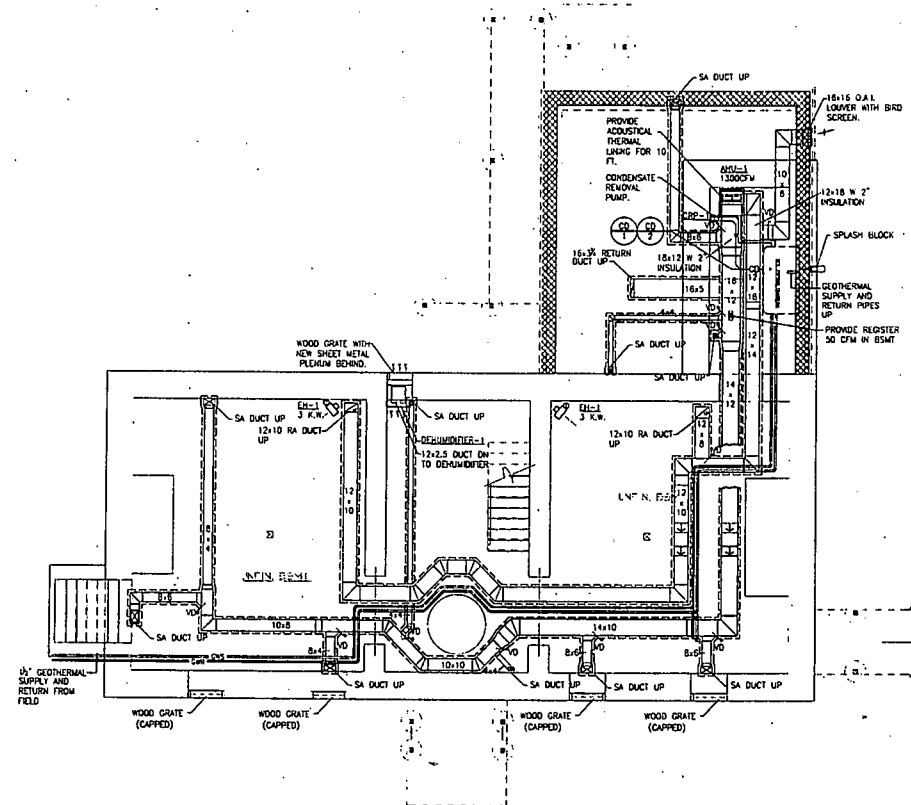
NO.	DATE	DESCRIPTION

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 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

FOR INFORMATION ONLY  
 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION  
 WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT

CEM DESIGN  
 200 ANDERSON AVENUE  
 SUITE 100  
 ANNAPOLIS, MD 21403  
 410.291.1000





**BASEMENT FLOOR PLAN HVAC**  
 SCALE 1/4"=1'-0"

Rev.	Date	Description	By
1	11/30/10		
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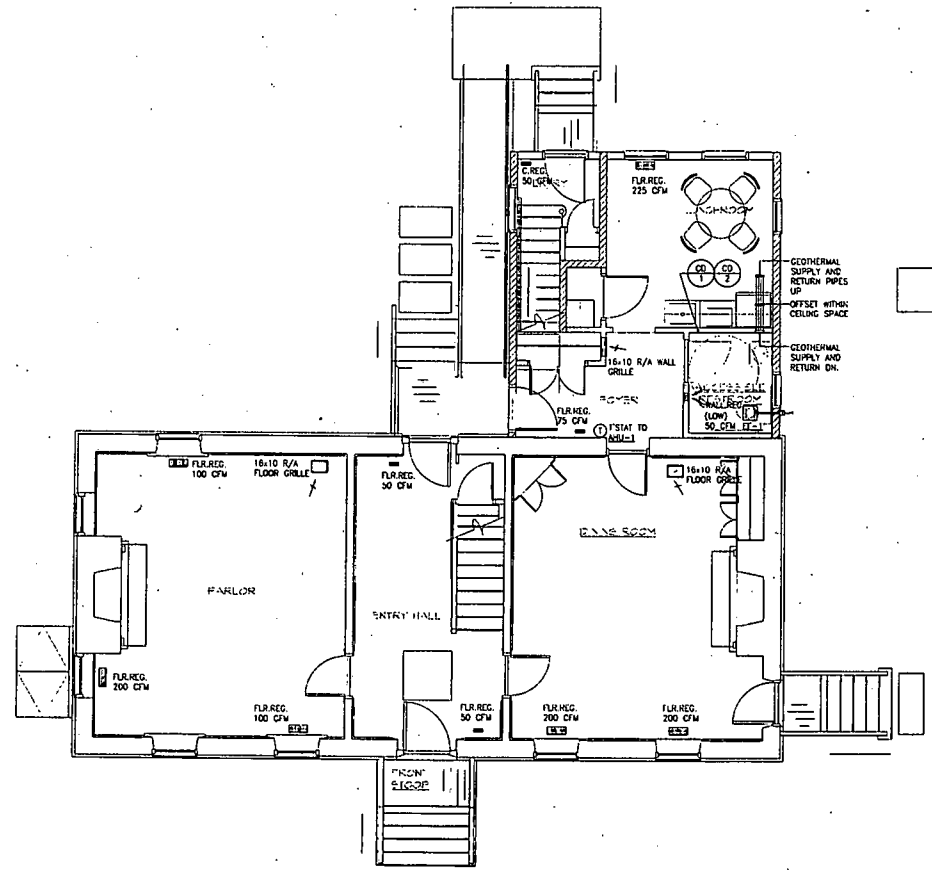
Sheet Title  
**BASEMENT FLOOR PLAN HVAC**

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, license No. 1407, expiration date: 10/28/12.

**MENDOZA, RIBAS, FARINAS & ASSOC.**  
 CONSULTING ENGINEERS  
 6285 Executive Boulevard, Rockville, Maryland 20852  
 (301) 488-8862 (301) 770-5267 (301) 770-5267

M-01  
 SHEET OF

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GROUND FLOOR PLAN HVAC  
 SCALE 1/4"=1'-0"

Issue Date: 11/30/10

Revisions:

Rev.	Date	Description	By
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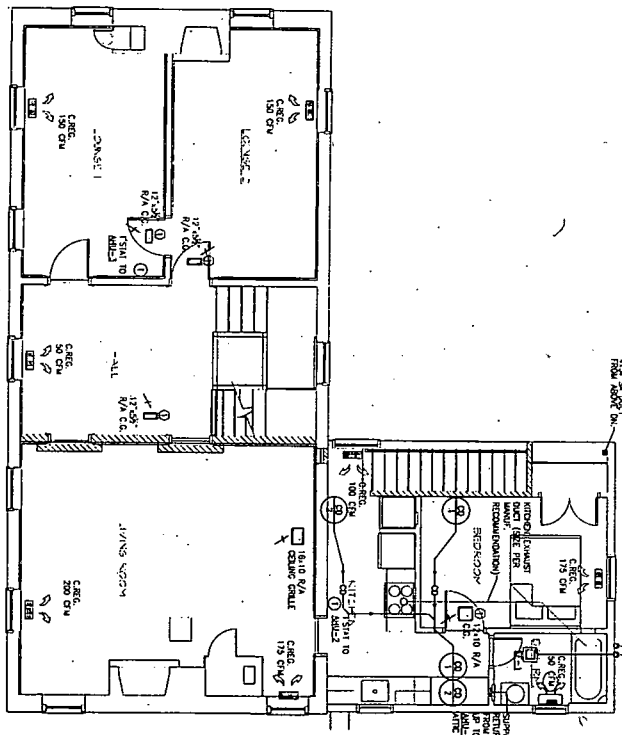
Sheet Title: GROUND FLOOR PLAN HVAC

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 CONSULTING ENGINEERS  
 6265 Executive Boulevard, Rockville, Maryland 20852  
 (301) 488-8868 (703) 377-7527 (1102) 9427-1 Fax

31

32



SECOND FLOOR PLAN HVAC  
SCALE 1/4"=1'-0"

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed member in good standing of the State of Maryland, and that my license expires on 10/31/2012.

MENDIOLA, RIBAS, FARRINAS & ASSOC.  
CONSULTING ENGINEERS  
6035 Executive Boulevard, Rockville, Maryland 20853  
(301) 444-4444 (301) 444-4444 (301) 444-4444

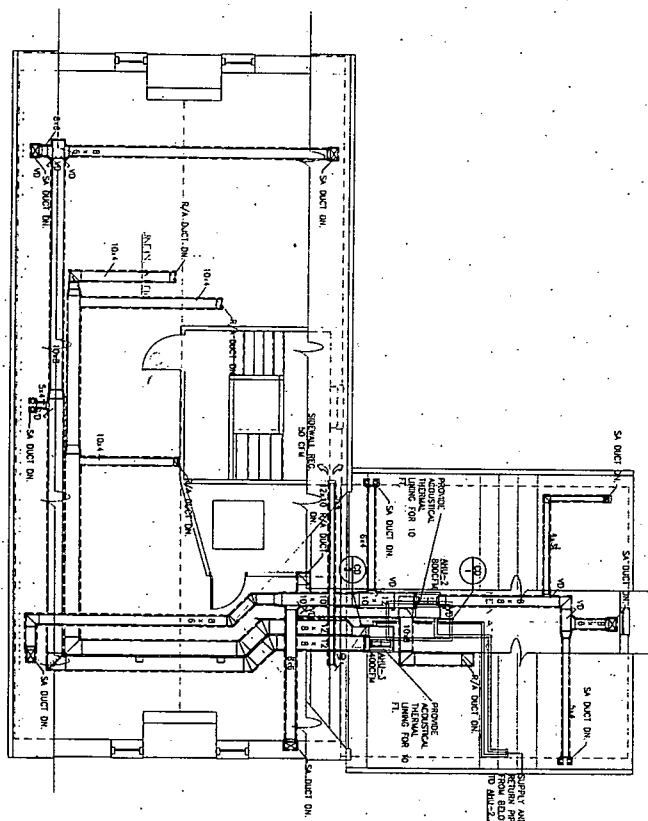
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SHEET OF

Revised	Date	By	Description

Falling Green  
Restoration and Addition  
4501 Olney-Laytonsville Road, Olney, MD 20832

PROJECT: Falling Green Restoration and Addition  
DATE: 10/12/11  
DRAWN BY: J. MENDIOLA  
CHECKED BY: J. MENDIOLA

CEM DESIGN  
100 ANNEAPOLIS AVENUE  
ANNAPOLIS, MD 21403  
TEL: 410.291.4444  
WWW.CEMDESIGN.COM



ATTIC FLOOR PLAN HVAC  
SCALE 1/4"=1'-0"

Professional certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer in the State of Maryland, License No. 1107, expiration date: 10/30/12.

**MENDOZA, RIBAS, FARINAS & ASSOC.**  
CONSULTING ENGINEERS  
6805 Executive Boulevard, Reston, Maryland 20186  
(703) 791-1100 (703) 791-1101 (703) 791-1102

M-04  
SHEET OF

Revision	Date	Description
1	11/20/10	Issue
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Sheet Title  
ATTIC FLOOR PLAN HVAC

Falling Green  
Restoration and Addition  
4501 Olney-Laytonville Road, Olney, MD 20832

MECHANICAL DESIGN CONSULTANTS, INC.  
10000 WOODBURN AVENUE  
SUIT 100  
BETHESDA, MD 20814  
(301) 440-1100

**CEM DESIGN**  
1800 WILMINGTON AVENUE  
SUITE 200  
BETHESDA, MD 20814  
(301) 291-0000



**GEOHERMAL WATER SOURCE HEAT PUMP SCHEDULE**

TAG	Qty	MCCQAY Model	Voltage	Cooling										Heating										REMARKS						
				MCA (Amps)	MCA (Amps)	ESP (kW/20)	BHP (HP)	Water Pump (HP)	Flow Rate (GPM)	WDB (H <sub>2</sub> O)	Cycle Type	Control	EW (°F)	LW (°F)	EW (°F)	LW (°F)	EW (°F)	LW (°F)	EW (°F)	LW (°F)	Total (kW/20)	Sensible (kW/20)	Heat of Pump (Btu/Hr)		EER	EW (°F)	LW (°F)	EW (°F)	LW (°F)	Total (kW/20)
ASH-1	1	HYCIC1036	208-230/50/1	25.80	40.0	1.200	0.87	0.0	0.500	3.50	11.30	Heater	0.0	55.0	55.4	60.0	61.0	56.7	56.6	11079	32217	48937	17.84	70.0	61.9	70.0	102.7	15830	37373	5.13
ASH-2	1	HYCIC1074	208-230/50/1	18.10	30.0	800	0.41	0.0	0.168	2.80	11.50	Heater	0.0	55.0	55.0	60.0	67.0	57.2	58.8	24731	19388	28520	17.51	70.0	61.9	70.0	101.6	27111	22800	5.36
ASH-3	1	HYCIC1012	208-230/50/1	16.30	19.0	100	0.42	0.0	0.170	1.00	11.40	Heater	0.0	55.0	55.0	60.0	67.0	58.8	57.1	12023	9000	14585	14.87	70.0	62.1	70.0	103.8	11553	11854	4.75

PROVIDE UNITS WITH AS FOLLOWS:  
 ① 7 DAY PROGRAMMABLE THERMOSTAT TWO STAGE HEAT/COOL.  
 ② FLOW CONTROL SUPPLY AND RETURN WATER HOSES

**CONDENSATE DRAIN REMOVAL PUMP**  
 COP-1: BY LITTLE GUY MODEL INCH=SOULST 65 GPM WITH SAFETY SWITCH AND TUBING 1/50 HP MOTOR

**SYMBOLS & ABBREVIATIONS**

	INSULATED DUCTWORK
	TRANSITION ROUND TO RECTANGULAR FLEXIBLE DUCTWORK
	90° ELBOW WITH GUIDING TURNING VANES
	MANUAL VOLUME BALANCING DAMPER
	SUPPLY REGISTER
	RETURN AIR GRILLE
	THERMOSTAT
	EXHAUST FAN
	CONDENSATE DRAIN
	GEOHERMAL WATER SUPPLY
	GEOHERMAL RETURN PIPES
	SPLASH BLOCK

**CEM DESIGN**  
 822 4102 POND AVENUE  
 ROCKVILLE MARYLAND  
 301-994-0667

**ELECTRIC HEATER SCHEDULE**

NO.	SERVING THE AREA	CAPACITY		CFM	VOLTAGE	WT. LBS	TYPE	MFG. & MODEL NO.
		BTUH	KW					
EH-1	BASEMENT	10236	3.0	250	208/1/50	42	UNIT HEATER	SCENTHELEBAHN-03041

ACCESSORIES: 1. RECESSED 2. TAMPER PROOF FSAT 3. THERMAL CUT-OFF 4. DISCONNECT SWITCH 5. BUILT-IN FSAT  
 6. SET AT 60° 7. SET @ 50°

**SUPPLY AIR REGISTER SCHEDULE**

NO.	CFM RANGE	INSIDE DIMENSION	OUTSIDE DIMENSION	MFG. & MODEL NO.
2	51-100	8" x 4"	10" x 5 1/2"	SCROLL TYPE
3	101-125	10" x 4"	12" x 5 1/2"	WHITE FINISH FOR CEILING WOOD FINISH FOR FLOORS (TO MATCH FUR)
4	126-150	10" x 4"	12" x 5 1/2"	
5	151-175	10" x 6"	12" x 6"	
6	176-250	8" x 8"	10" x 10"	

**RETURN AIR REGISTER GRILLE**

NO.	CFM RANGE	INSIDE DIMENSION	OUTSIDE DIMENSION	MFG. & MODEL NO.
2	126-150	10" x 4"	12" x 5 1/2"	SCROLL TYPE
3	151-175	10" x 6"	12" x 6"	WHITE FINISH FOR CEILING WOOD FINISH FOR FLOORS (TO MATCH FUR)
4	176-250	8" x 8"	10" x 10"	
5	251-325	10" x 8"	12" x 10"	
6	326-400	12" x 8"	14" x 10"	
7	400+	12" x 10"	16" x 10"	

**PUMP SCHEDULE**

TO BE DETERMINED ONCE GEOHERMAL LOOP HAS BEEN DESIGNED

**FAN SCHEDULE**

NO.	AREA SERVED	TOTAL CFM	S.P. IN. W.C.	FAN RPM	HP (WATTS)	VOLTAGE	TYPE	SOUND	WT. LBS	CONTROL	DAMPEN	DR. SUPPLY	MFG.	DAH MODEL NO.

ACCESSORIES: 1-BELT DRIVE 2-BACKDRIFT DAMPER 3-DRAIN CONNECTION 4. ENERGY STAR RATED 5. HUMIDISTAT

**DEHUMIDIFIER SCHEDULE**

NO.	SERVING THE AREA	CFM	VOLTAGE	WATTS	TYPE	MFG. & MODEL NO.

LEAD PROVIDED FROM THE UNIT 1. HUMIDISTAT SETTING SET AT 50% (ADJUSTABLE) 2. FAN SPEED CONTROLLER FOR BEST RESULTS  
 - IN THE SUMMER SET THE SPEED CONTROL ON MED - LOW  
 - IN THE WINTER SET THE SPEED CONTROL ON MED - LOW

**GENERAL NOTES HVAC**

- ALL HVAC DUCTS SHALL BE INSULATED WITH 2 INCH, 1 LB. DENSITY, U/L APPROVED FIBERGLASS WITH VAPOR BARRIER.
- ALL DUCTS SHALL BE FABRICATED FROM FIELD TAKEN DIMENSIONS. DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
- SUPPLY AND RETURN AIR DUCTWORK SHALL BE OF LOW PRESSURE SHEET METAL CONSTRUCTION. DUCT SIZES INDICATED ON DRAWINGS SHALL BE INCREASED TO COMPENSATE FOR THE THICKNESS OF LINING WHEN LINING IS SHOWN.
- ALL THERMOSTATS SHALL BE OF THE HEAT PUMP TYPE. THERMOSTATS SHALL BE PROVIDED BY AIR CONDITIONING UNIT MANUFACTURER.
- ALL AIR OUTLETS SHALL BE OF COLS SPECIFIED AND VERIFIED WITH ARCHITECT. REGISTERS AND GRILLES SHALL BE REGGIO OR APPROVED EQUAL.
- CONTRACTOR SHALL AIR BALANCE COMPLETE AIR CONDITIONING SYSTEM AND PROVIDE WRITTEN REPORT.
- SUBMIT SIX (6) COPIES OF ALL HVAC EQUIPMENT FOR APPROVAL BY ENGINEER.
- CONTRACTOR SHALL PROVIDE MESH WIRE SCREEN TO OUTSIDE AIR INTAKE LOUVERS AND DISCHARGE POINTS RESPECTIVELY.
- RETURN AIR PLENUM AND RETURN AIR DUCTS SHALL HAVE 1" SOUND LINING EXTENDED 10 FT.
- ALL DUCT DIMENSIONS SHOWN ARE INSIDE DIMENSIONS.
- PROVIDE FLEXIBLE CONNECTION BETWEEN AIR CONDITIONING UNIT, FANS, ETC. AND DUCTWORK.
- ALL NEW FLEXIBLE AIR DUCT CONNECTIONS TO EXISTING SHEET METAL DUCTS SHALL BE OF THE SPIN IN TYPE WITH MANUAL BALANCING DAMPER.
- CONTRACTOR SHALL VISIT SITE TO FIELD VERIFY POINTS OF CONNECTIONS TO EXISTING FACILITIES AND SYSTEMS. DRAWINGS WERE PREPARED BASED ON EXISTING DRAWINGS AVAILABLE. FOR NOTE ON REMOVAL, CONSTRUCTION SCHEDULE AND ADDITIONAL REQUIREMENTS, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LANDLORD REQUIREMENTS.
- LENGTH OF ALL NEW FLEXIBLE DUCTS SHALL NOT EXCEED 10 FEET.

- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK TO BE DONE AND SHALL EXAMINE THE SITE AND CONSIDER THE CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE IN THE PERFORMANCE OF THE CONTRACT WORK. NO ALLOWANCES SHALL BE MADE SUBSEQUENTLY IN THIS CONNECTION, FOR ANY ERRORS THROUGH NEGLIGENCE ON HIS PART. THE CONTRACTOR IS HEREBY ADVISED THAT HE WILL BE REQUIRED TO OBSERVE ALL RECOMMENDED PRACTICES OF FIRE AND SAFETY PRECAUTIONS FOR THE PROTECTION OF THE NEW FACILITY.
- ALL SUPPLY AND RETURN DUCT TURNS SHALL HAVE TURNING VANES.
- PROVIDE PVC PIPE FOR CONDENSATE DRAIN FROM PUMP TO POINT OF DISCHARGE.
- ALL NEW SUPPLY AND RETURN WATER PIPES SERVING HEAT PUMPS SHALL BE TYPE "L" COPPER WITH 95 5 SOLDER JOINTS. FLEXIBLE STAINLESS STEEL HOSE BY MANUFACTURER TO BE USED ALONG WITH FLOW CONTROLLER/BALL VALVE AT RETURN CONNECTION AND Y-STRAINER/BALL VALVE WITH PORT AT SUPPLY CONNECTION.
- ALL PIPE PENETRATIONS THROUGH FLOORS OR WALLS SHALL BE CALKED AND FIRE SEALED. THE CONTRACTOR SHALL NOT CUT STRUCTURAL COMPONENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER.
- PROVIDE PIPE BRACKETS AND SUPPORTS FOR ALL WALL MOUNTED HEATING/COOLING LINES. SUPPORTS SHALL BE PROVIDED EVERY 6 FEET FOR PIPES 3/4 INCH IN DIAMETER, 8 FEET FOR 1 INCH AND DIRECTION.
- ALL WORK SHALL BE COORDINATED WITH OWNER TO MAINTAIN PREMISES IN ORDER AND CLEAN FROM DEBRIS. SWITCHOVER FOR HEATING FROM NEW MAINS SHALL BE DONE AT TIME TO MINIMIZE DURATION OF SWITCHOVER. OWNER SHALL BE NOTIFIED IN ADVANCE AND INTERRUPTION OF THE HEATING SYSTEM SHALL BE MINIMIZED.
- COORDINATE LOCATION OF CEILING REGISTERS WITH LIGHTS.
- PROVIDE COMPLETE TEMPERATURE CONTROLS WITH SUMMER/WINTER THERMOSTAT "AUTO ON OFF" BY MCCOY.
- ALL DUCTWORK SHALL BE FABRICATED FROM FIELD TAKEN DIMENSION AND NOT FROM DRAWING. CUTTING CLEARANCES, PRIOR TO DUCT FABRICATION, SHALL BE VERIFIED WITH EXISTING STRUCTURE, PIPES, DUCTS, ELECTRICAL CONDUITS, ETC., AND ALL NEW ELECTRICAL, PLUMBING AND ARCHITECTURAL WORK. REVISIONS TO DUCTWORK WILL BE MADE AS REQUIRED PER ABOVE AT NO ADDITIONAL COST TO THE OWNER.
- INASMUCH AS THE REMODELING OF AN EXISTING BUILDING REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED WITHOUT SPENDING LARGE SUMS OF MONEY, OR DESTROYING OTHERWISE ADEQUATE, OR SERVICABLE PORTIONS OF THE BUILDING, IT MUST BE UNDERSTOOD THAT FIELD CONDITIONS MIGHT VARY FROM WHAT IS SHOWN ON THE PLANS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO UNDERTAKING ANY WORK, AND NOTIFY THE ARCHITECT IF THERE ARE SUBSTANTIAL DIFFERENCES THAT MIGHT REQUIRE DESIGN MODIFICATIONS.
- ALL MECHANICAL PLAN DIMENSIONS AND DRAWING'S SCALES SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS.
- PROVIDE FIRE DAMPERS WHERE DUCTS PENETRATE FIRE PARTITIONS.

- AHU AIR HANDLING UNIT  
 BDD BACK DRAFT DAMPER  
 CFM CUBIC FEET PER MINUTE  
 CR CEILING REGISTER  
 COP CONDENSATE REMOVAL PUMP  
 EF EXHAUST FAN  
 ESP EXTERNAL STATIC PRESSURE  
 FLA FULL LOAD AMPS  
 HP HORSE POWER OR HEAT PUMP  
 MBH THOUSANDS BTU PER HOUR  
 MCA MINIMUM CIRCUIT AMPS  
 MOCP MAXIMUM OVER CURRENT PROTECTION FUSE SIZE  
 RA RETURN AIR  
 RAG RETURN AIR GRILLE  
 RLA RATED LOAD AMPS  
 RPM REVOLUTION PER MINUTE  
 SL SOUNDLINING  
 WT WEIGHT

**Falling Green**  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

Issue Date: 11/30/10

Rev.	Date	Description	By
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Sheet Title: HVAC SCHEDULES, DETAILS & NOTES

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 7497, expiration date 10/28/12.

**MENDOZA, RIBAS, FARINAS & ASSOC.**  
 CONSULTING ENGINEERS  
 6265 Executive Boulevard, Rockville, Maryland 20852  
 (301) 486-8862 (703) 770-5347 (301) 929-1200

M-05

SHEET OF

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## ELECTRICAL GENERAL NOTES:

- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ORCUT NUMBERS SHOWN ARE FOR IDENTIFICATION ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BALANCE ALL PHASES IN THE PANELBOARD. (BALANCE LOAD).
- SEE MECHANICAL PLANS FOR EXACT LOCATION OF ALL MOTORS AND OTHER EQUIPMENT BEFORE ROUGH-IN.
- WHERE WIRE SIZES ARE INDICATED ON THE PLANS FOR INDIVIDUAL CIRCUITS, THE INDICATED WIRE SIZE SHALL APPLY TO THE COMPLETE CIRCUIT UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT NOT FURNISHED UNDER THIS SECTION BEFORE ROUGH-IN.
- SEE ARCHITECTURAL PLANS FOR LOCATION OF BUILDING EQUIPMENT BEFORE ROUGH-IN.
- CONDUIT RUNS ARE SHOWN SCHEMATICALLY. BUILDING CONDITIONS WILL DETERMINE THE ACTUAL CONDUIT RUN.
- ALL ELECTRICAL SERVICE EQUIPMENT SHALL BE READILY ACCESSIBLE, AND HAVE A CLEAN AND DRY LOCATION. PROVIDE CLEAR WORKING SPACE AROUND EQUIPMENT.
- COLOR CODE AND IDENTIFY ALL WIRES.
- PANELBOARD SHALL HAVE LOCKING DOOR AND BE KEVED.
- PROVIDE EXPANSION JOINTS FITTING WHERE RACEWAY CROSSES EXPANSION JOINTS (IF REQUIRED).
- ALL JUNCTION BOXES SHALL BE OF CORR. GAUGE AND OF THE SIZE REQUIRED TO ACCOMMODATE CONDUCTORS SHOWN.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION BEFORE ROUGH-IN.
- CONTRACTOR SHALL VERIFY WITH MANUFACTURER THE EXACT LOCATION OF CONNECTION BOX TO MECHANICAL EQUIPMENT BEFORE ROUGH-IN.
- ALL MOTOR CONNECTIONS OUTSIDE SHALL BE DONE WITH FLEXIBLE SEMI-RIG CONDUIT.
- THE CONTRACTOR MUST ASSURE EQUIPMENT GROUNDING SYSTEM CONTINUITY.
- ALL WIREMANSHIP, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF AREA BY OWNER.
- PANELBOARD SHALL BE THE CIRCUIT BREAKER TYPE AS MANUFACTURED BY SQUARE D CO. OUTLET HANDBOOK/PANELHOUSE, OR SIMENS.
- ALL WIRE SHALL BE COPPER WITH 600 VOLT INSULATION, MINIMUM SIZE SHALL BE NO. 12 AWG.
- ALL RACEWAY SHALL BE CONCEALED WHERE POSSIBLE. WHERE RACEWAY CANNOT BE CONCEALED IT SHALL BE INSTALLED IN WREVOID TO MATCH THE WALL COLOR.
- PANELBOARD AND DISCONNECT SWITCHES SHALL HAVE COPPER BUS AND APPURTENANCES.
- CONDUITS INSTALLED IN EARTH OR BELOW VAPOR BARRIERS SHALL BE PAINTED TWO COATS OF BLACK ASPHALTUM.
- ALL RACEWAYS SHALL BE CAPPED UNTIL CONDUCTORS ARE INSTALLED.
- ALL ELECTRICAL, OUTLETS AND ACCESSORIES FURNISHED WITH EQUIPMENT SHALL BE CONNECTED AND ENERGIZED BY THE ELECTRICAL CONTRACTOR.
- THE CONTRACTOR AND LUMINAIRE MANUFACTURER ARE RESPONSIBLE FOR PROVIDING PROPER TRIM, MOUNTINGS, ETC., TO SUIT ACTUAL ARCHITECTURAL CEILINGS INSTALLED.
- THE CONTRACTOR SHALL RESTORE ALL AREAS AND SYSTEMS DISTURBED BY HIS WORK TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND CERTIFICATES OF INSPECTION INCLUDING THE COST OF SAME IN HIS CONTRACT.
- ALL MATERIALS FURNISHED FOR THIS PROJECT SHALL BE NEW AND SHALL BE LISTED BY THE UNDERWRITERS' LABORATORIES, INC.
- ALL BRANCH CONDUITS 100 FEET OR LONGER SHALL BE A MINIMUM OF NO. 10 AWG.
- ALL DISCONNECT SWITCHES FROM "30" AMPS TO "1200" AMPS SHALL BE "ON/OFF" TYPE. ALL DISCONNECT SWITCHES IN PUBLIC AREAS SHALL BE FURNISHED WITH PROVISIONS TO BE LOCKED IN CLOSED POSITION.
- ALL PHOTOCELLS SHALL BE WEATHERPROOF, FLUSH MOUNTED WITH CORROSION PROOF PLATE AND SHALL BE MANUFACTURED BY CROUSE HINDS, BRYANT OR TORK CO.
- THE GROUND SYSTEM SHALL BE CONTINUOUSLY IDENTIFIED THROUGHOUT THE SYSTEM TO AVOID ERROR CONNECTIONS.

## LIGHTING FIXTURE SCHEDULE

FIX. TYPE	DESCRIPTION	CATALOG NUMBER(S)	VOLTS	LAMP(S)	MOUNTING	LOCATION
A1	CERAMIC LAMPHOLDER	CERAMIC BASE, COMP. FL. (A-19) (250)	120	COMP. FL.	SURFACE	BASEMENT, ATIC
B1	FLOURESCENT	SEA QULL LIGHTING, 4950-15, WHIT.	120	(2) T8W 18	SURFACE	JANITOR'S CLOSET
C1	UNDERCABINET LIGHT	LIGHTOLIER, P27W13Z120P19W18W18	120	(1) 13W 12	SURFACE	LUMINOUS ROOM
D1	VANITY FIXTURE	SEA QULL LIGHTING, 4950QLE-15, WHIT.	120	(2) T8W 18	WALL	BATHROOM
E1	BATTERY PACK L.I.	LIGHTOLIER, EG-W	120	INCLUDED	WALL +Y-0	BASEMENT
E2	EXIT SIGN	LIGHTOLIER, LI-W-U-R-W-7 W/ REMOTE CAPABILITY	120	LED	UNIVERSAL	THROUGHOUT
E3	EXIT SIGN/BATH, PACK	LIGHTOLIER, LLE-U-R-W	120	LED	UNIVERSAL	THROUGHOUT
P1		SELECTED BY ARCHITECT	120	---	SURFACE	DRINK ROOM
P2		SELECTED BY ARCHITECT	120	---	SURFACE	ENTRY HALL
P3		SELECTED BY ARCHITECT	120	---	SURFACE	FORUM
R1	RECESSED DOWNLIGHT	LIGHTOLIER, 1000MM REFLECTOR TRIM LIGHTOLIER, 1004 F265 FRAME IN KIT	120	(1) 28W TROUBLE TUBE CFL	RECESSED	FOYER, LUMINOUS KITCHEN
S1	EXT. SCORDE	WENNA-LAMBERT, ARDRIA COURT FAMILY 72023-79-PA	120	(1) 13W 00-24 SPIRAL	WALL +Y-6	REAR PORCHES
S2	STAR LIGHT	OUTDOOR LIGHTING, 100-08 LED PRISMATIC REMOTE WEATHERPROOF TRANSFORMER	120	LED	SURFACE	FRONT & SID PORCHES
W1	SPOT LIGHT	UTRULICOR, WIZZPOQUIT	120	(2) 150W HALOGEN	WALL	ATIC & EXTERIOR SOFFIT
W2	SPOT LIGHT		120		N-GROUND	EXTERIOR

## EQUIPMENT SCHEDULE

ITEM	DESCRIPTION
①	ELECTRIC HEATER (HLS) 3.0 KW PROVIDE WITH BUILT-IN DISCONNECT SWITCH
②	DISCONNECT SW. 33 A PROVIDE 120V 20 AMP CONVENIENCE OUTLET.
③	WATER SOURCE HEAL PUMP WSPR-1 - 200V 1/2 SUPPLY FAN: 1/2 HP MCA: 23.9 AMPS MOPP: 40.0 AMPS PROVIDE 20-30 AMP NEMA 1 FUSED DISCONNECT SWITCH WITH 40.0 AMP FUSES MOUNTED NEAR UNIT.
④	WATER SOURCE HEAL PUMP WSPR-2 - 200V 1/2 SUPPLY FAN: 1/6 HP MCA: 10.1 AMPS MOPP: 30.0 AMPS PROVIDE 20-30 AMP NEMA 1 FUSED DISCONNECT SWITCH WITH 30.0 AMP FUSES MOUNTED NEAR UNIT.
⑤	WATER SOURCE HEAL PUMP WSPR-3 - 200V 1/2 SUPPLY FAN: 1/8 HP MCA: 6.8 AMPS MOPP: 15.0 AMPS PROVIDE 20-30 AMP NEMA 1 FUSED DISCONNECT SWITCH WITH 15.0 AMP FUSES MOUNTED NEAR UNIT.
⑥	SWAP FUSE 1/2 HP PROVIDE 120V 20 AMP CONVENIENCE OUTLET.

## SYMBOL LIST

- LIGHTING FIXTURE.  
 EXIT LIGHT (ARROWS AS REQUIRED)  
 CEILING FAN WITH LIGHT (SELECTED BY OWNER)  
 SINGLE POLE TOGGLE SWITCH 120V 20 AMP +48'A.F.F.  
 THREE WAY SWITCH 120V 20 AMP +48'A.F.F.  
 OCCUPANCY SENSOR SWITCH 120V 125V +48'A.F.F.  
 DUPLEX RECEPTACLE 125V 20 AMP WITH BUILT-IN GROUND FAULT PROTECTION +44' A.F.F.  
 DUPLEX RECEPTACLE 125V 20 AMP +18'A.F.F.  
 DUPLEX RECEPTACLE 125V 20 AMP +48'A.F.F. U.O.N.  
 DOUBLE DUPLEX RECEPTACLE 125V 20 AMP +18'A.F.F. U.O.N.  
 DUPLEX RECEPTACLE 125V 20 AMP WITH BUILT-IN GROUND FAULT PROTECTION & WEATHER PROOF COVER 125V 20 AMP MOUNTED AT UNIT BASE OR +18'A.F.F.  
 FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE 125V 20AMP  
 SINGLE RECEPTACLE 125V 20 AMP +18' A.F.F. U.O.N.  
 SINGLE RECEPTACLE 250V 50 AMP +18' A.F.F. U.O.N.  
 TELEPHONE OUTLET +18" AFF U.O.N. PROVIDE 3/4" EMPTY CONDUIT WITH PULL WIRE TO CEILING SPACE TERMINATED W/ INSULATED BUSHING.  
 DATA OUTLET +18" AFF U.O.N. PROVIDE 3/4" EMPTY CONDUIT WITH PULL WIRE TO CEILING SPACE TERMINATED W/ INSULATED BUSHING.  
 TELEPHONE/DATA OUTLET +18" AFF U.O.N. PROVIDE 1" EMPTY CONDUIT WITH PULL WIRE TO CEILING SPACE TERMINATED W/ INSULATED BUSHING.  
 CABLE TV OUTLET +18" A.F.F. U.O.N. PROVIDE 3/4" EMPTY CONDUIT WITH PULL WIRE TO CEILING SPACE TERMINATED W/ INSULATED BUSHING.  
 JUNCTION BOX - SIZE AS REQUIRED.  
 MOTOR STARTER/DISCONNECT SWITCH - SIZE AS REQUIRED.  
 BUILT-IN MOTOR STARTER/DISCONNECT SWITCH - SIZE AS REQUIRED.  
 CONDUIT TURNING UP.  
 CONDUIT TURNING DOWN.  
 BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.  
 HOME-RUN TO PANEL BOARD, ARROWHEADS DENOTE NUMBER OF CIRCUITS. CROSS MARKS DENOTE NUMBER OF CONDUCTORS WHEN MORE THAN TWO. X DENOTE EXPLOSION PROOF SEAL.  
 MECHANICAL EQUIPMENT DESIGNATION - SEE SCHEDULE.  
 FAN MOTOR CONNECTION  
 NON-ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR, 120V W/ BATTERY BACK-UP AND TANDEM CONNECTION.  
 MOTORIZED DAMPER CONNECTION  
 WEATHERPROOF REMOTE TRANSFORMER  
 WEATHER PROOF  
 A.F.F. ABOVE FINISHED FLOOR  
 U.O.N. UNLESS OTHERWISE NOTED

CEM DESIGN  
200 HIGHLAND AVENUE  
ROCKVILLE, MARYLAND  
201 984 0007 3000

Member, I.A.S.E. & I.A.A.E.  
I.A.S.E. License No. 12345  
I.A.A.E. License No. 67890  
141 (1/10) 000007  
REV 01/10/05

Falling Green  
 Restoration and Addition  
 4501 Olney-Laytonville Road, Olney, MD 20832

Issue Date:	11/30/10		
Revision:			
Rev. No.	Date	Description	By
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Sheet Title			

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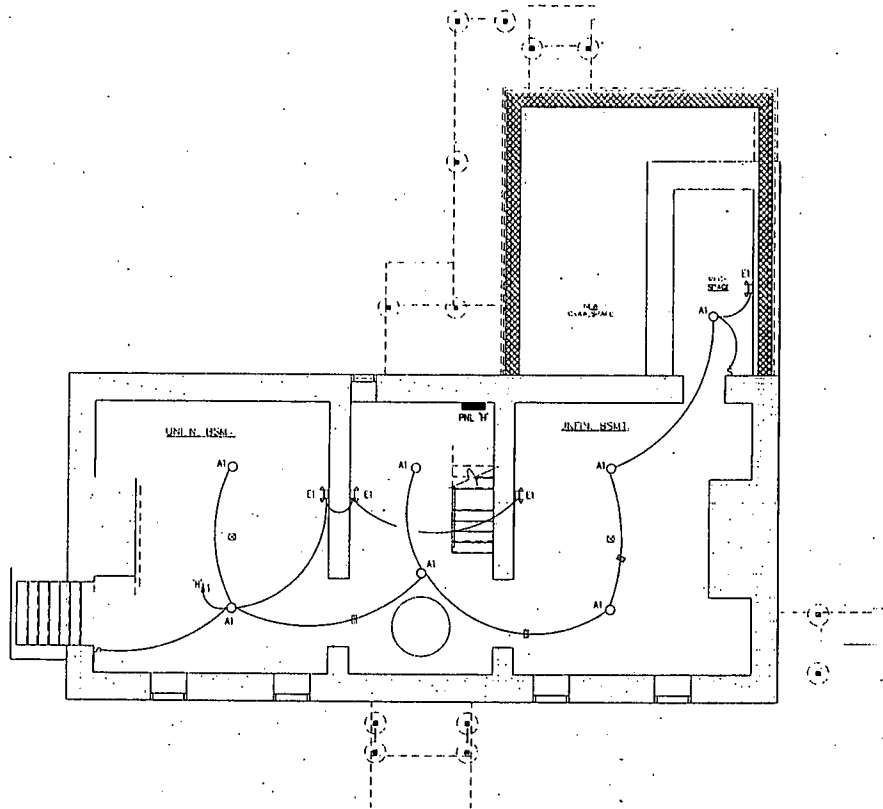
MENDOZA, RIBAS, FARINAS & ASSOC.  
 CONSULTING ENGINEERS  
 6265 Executive Boulevard, Rockville, Maryland 20852  
 (301) 468-8882 (770) 770-5367 (410) 978-1000

E-01

SHEET OF

36

37



BASEMENT FLOOR PLAN - LIGHTING  
 SCALE: 1/4" = 1'-0"

**DEM DESIGN**  
 300 ANDERSON AVENUE  
 ROCKVILLE, MARYLAND  
 20154-0002 70355

Member, AIA, IASME, and ASCE  
 2015 Anderson Blvd  
 Rockville, MD 20850  
 Tel: (301) 978-1247  
 Fax: (301) 978-1247

**Falling Green**  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

Name Date	
11/30/10	
Revisions	
No.	Date Description
1	
2	
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4	
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Sheet Title	
BASEMENT FLOOR PLAN - LIGHTING	

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 CONSULTING ENGINEERS  
 6265 Executive Boulevard, Rockville, Maryland 20852  
 (703) 448-8882 (703) 479-2267 (202) 993-1100

**E-02A**  
 SHEET OF

REM DESIGN  
 1000 W. PATENT AVENUE  
 ANNAPOLIS, MARYLAND 21403  
 TEL: (410) 291-1000

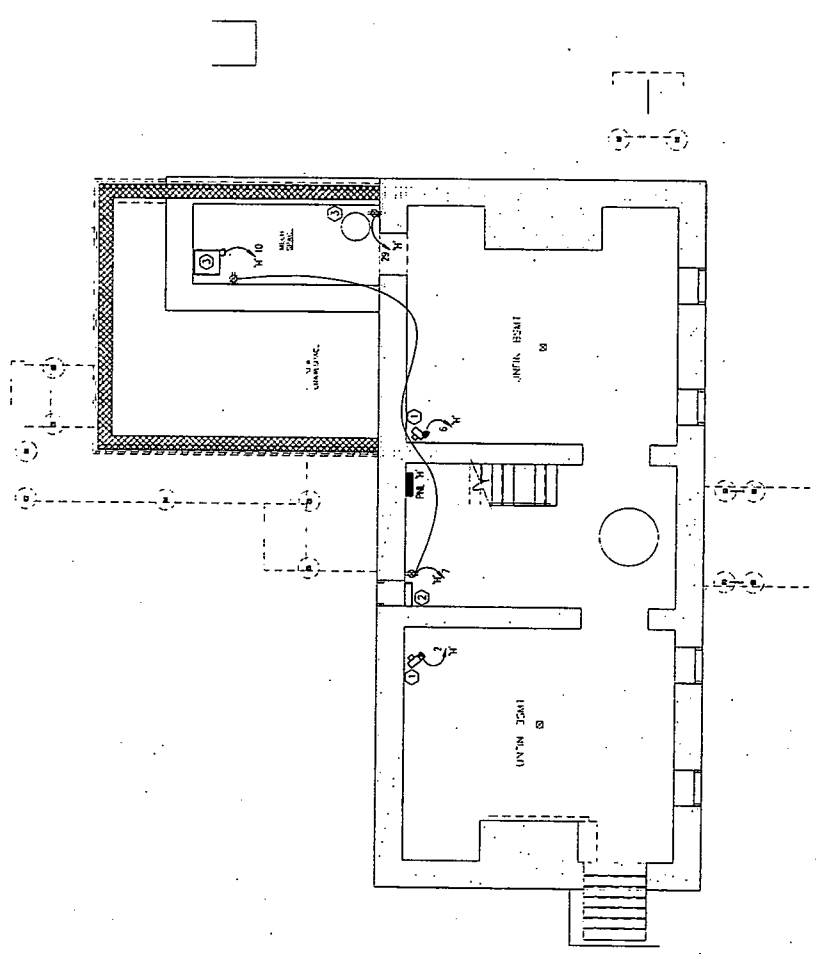
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 CONSULTING ENGINEERS  
 6585 EXECUTIVE BOULEVARD, ROCKVILLE, MARYLAND 20852  
 TEL: (301) 791-8200

Falling Green  
 Restoration and Addition  
 4501 Olney-Laytonville Road, Olney, MD 20832

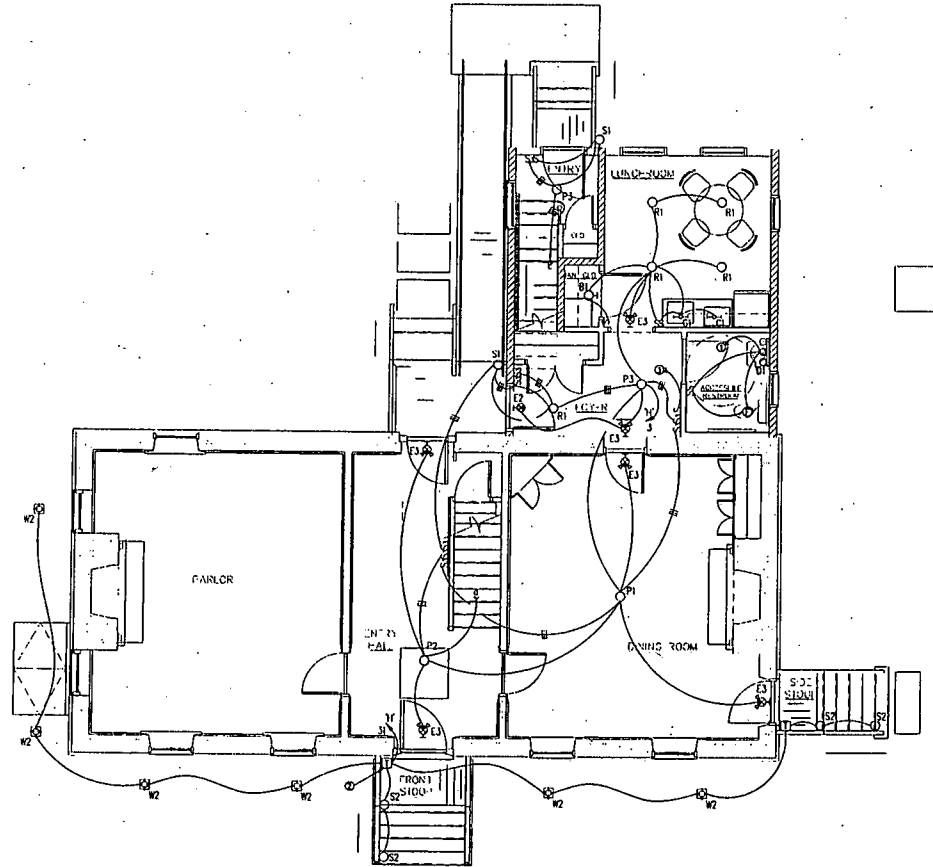
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E-02B  
 SHEET OF  
 BASEMENT FLOOR PLAN - POWER

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 CONSULTING ENGINEERS  
 6585 Executive Boulevard, Rockville, Maryland 20852  
 (301) 791-8200 (FAX) (301) 791-8200 (Cellular)



BASEMENT FLOOR PLAN - POWER  
 SCALE: 1/4" = 1'-0"



**GROUND FLOOR PLAN - LIGHTING**  
SCALE: 1/4" = 1'-0"

- DRAWING NOTES**
- ① CONNECTION TO BATHROOM CIRCUIT #5 IN PANEL 'H'
  - ② REMOTE WEATHERPROOF TRANSFORMER LOCATED BELOW PORCH STOOD.
  - ③ CONNECTION TO THE W1 LIGHT FIXTURES LOCATED AT ATTIC EXTERIOR SOFFIT.

**CEM DESIGN**  
820 ANDERSON AVENUE  
ROCKVILLE, MARYLAND  
301.794.0887 20850

Master's Plan, Licensed and Sealed  
Professional Engineer  
No. 1457, State of Maryland  
Exp. 06/30/12

**Falling Green**  
Restoration and Addition  
4501 Olney-Laytonsville Road, Olney, MD 20832

Issue Date			
11/30/10			
Revisions			
No.	Date	Description	By
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4			
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Sheet Title

**GROUND FLOOR PLAN - LIGHTING**

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6265 Executive Boulevard, Rockville, Maryland 20852  
(703) 440-8882 (703) 770-1247 (E) mendozaf@comcast.net

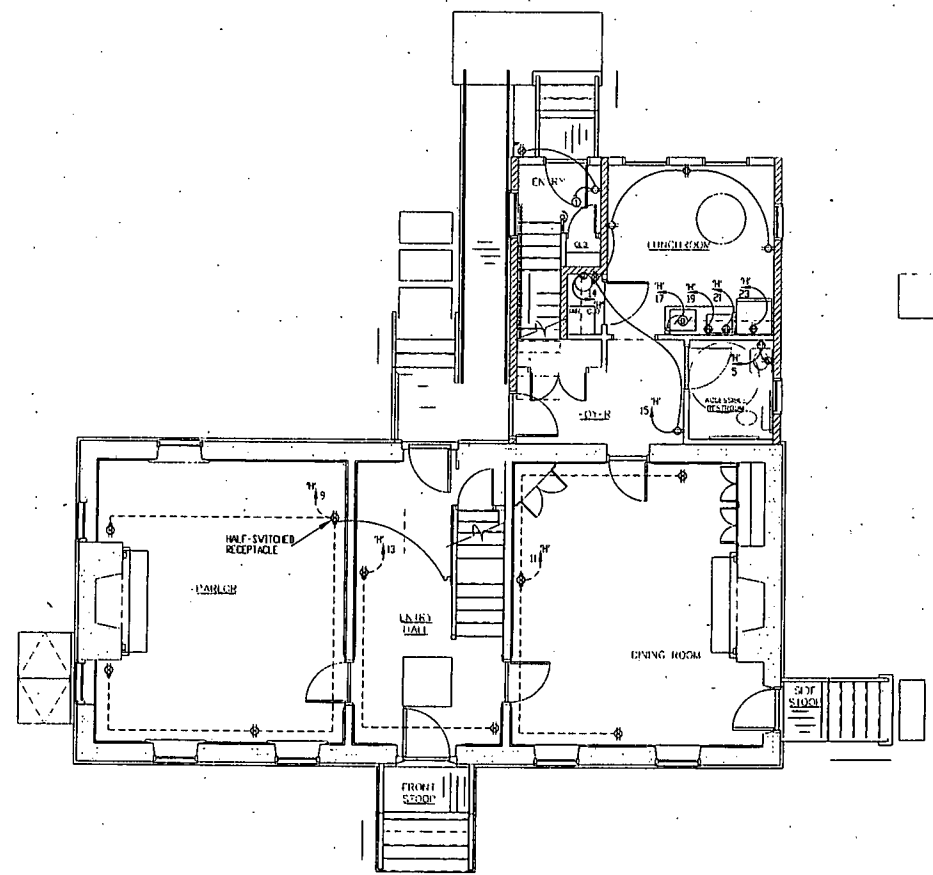
**E-03A**  
SHEET 01'

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**CEM DESIGN**  
 820 ANSELBORNE AVENUE  
 ROCKVILLE, MARYLAND 20850  
 301-294-0887 20850

**MENDOZA, RIBAS, FARINAS & ASSOC.**  
 CONSULTING ENGINEERS  
 6265 EXECUTIVE BOULEVARD  
 ROCKVILLE, MARYLAND 20852  
 TEL: (301) 583-8800  
 FAX: (301) 778-2107

**Falling Green**  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832



**GROUND FLOOR PLAN - POWER**  
 SCALE: 1/4" = 1'-0"

**DRAWING NOTES:**  
 Ⓞ CONNECTION TO RECEPTACLE CIRCUIT #3 IN PANEL 'A'

Issue Date: 11/30/10

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Sheet Title:  
**GROUND FLOOR PLAN - POWER**

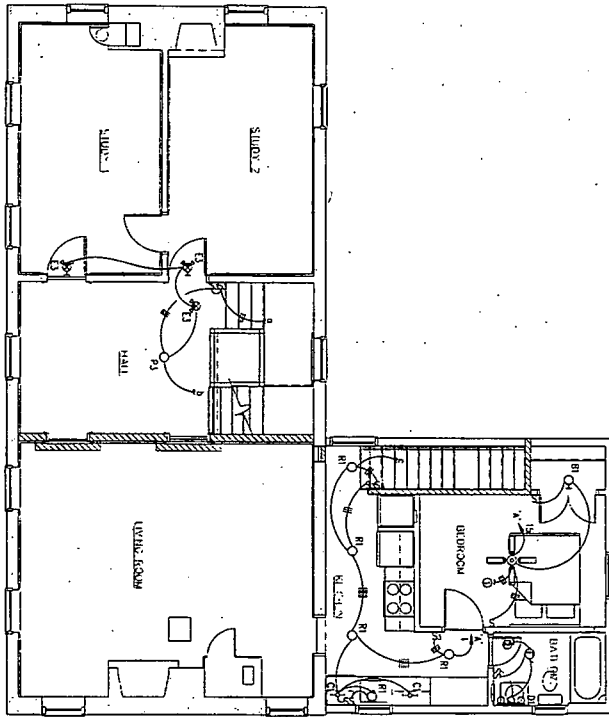
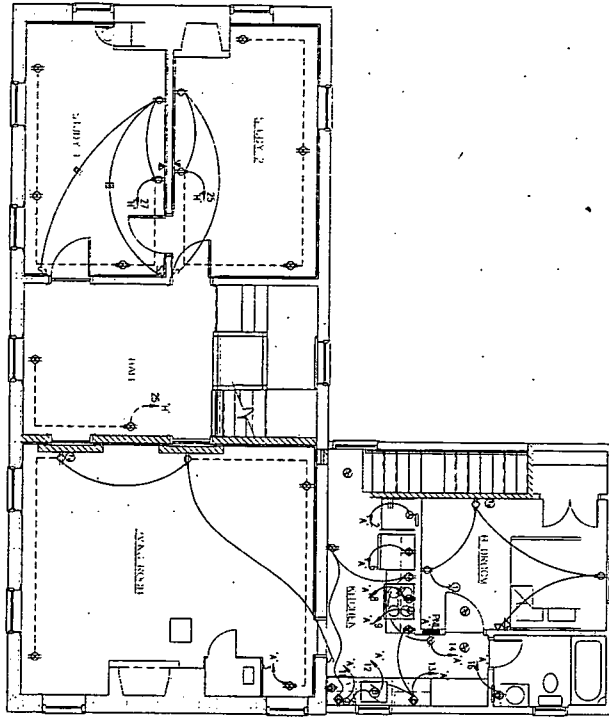
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 (301) 583-8800 (770) 778-2107 (301) 778-2107

**E-03B**  
 SHEET OF

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14



**Falling Green**  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

PROJECT NO. 10-012  
 DATE: 10/20/10  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]

**CEM DESIGN**  
 CONSULTING ENGINEERS  
 2000 W. BELT ROAD  
 SUITE 100  
 ROCKVILLE, MD 20851

Rev.	Date	Description
1	10/20/10	ISSUED FOR PERMIT

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 4501 Executive Boulevard, Rockville, Maryland 20851  
 (301) 948-8888  
 www.cemdesign.com

**E-04**  
 SHEET OF

**SECOND FLOOR ELECTRICAL**



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**MENDOZA, RIHAS & ASSOC.**  
CONSULTING ENGINEERS  
2025 Executive Boulevard, Rockville, Maryland 20850  
(301) 477-0112

SHEET OF  
**E-05**

ATTIC PLANS - ELECTRICAL

Sheet No.	Description	Date
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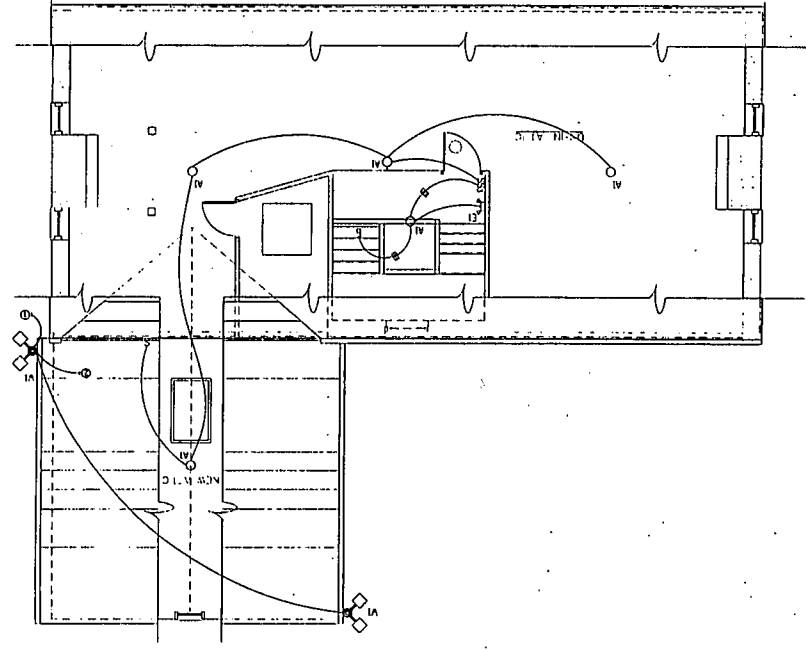
**Falling Green**  
Restoration and Addition  
4501 Olney-Laytonsville Road, Olney, MD 20832

Architect: A. Kelly, P. Kelly, and A. Kelly  
1000 Northpointe Drive  
Rockville, MD 20850  
Tel: (301) 778-2300

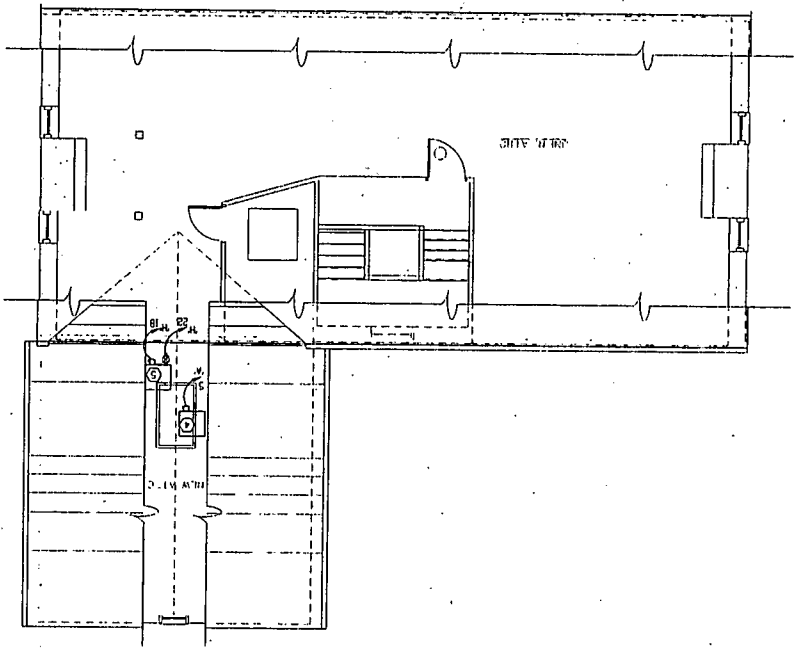
**DEM DESIGN**  
300 Northpointe Drive  
Rockville, Maryland 20850  
301 778-2300

**ATTIC PLAN - LIGHTING**  
SCALE: 1/4" = 1'-0"

**DRAWING NOTES:**  
① CONNECT TO EXTERIOR LIGHTING CIRCUIT #31 IN PANEL "M"  
② CONNECTION TO THE WALL SWITCH LOCATED IN GROUND FLOOR PORCH.



**ATTIC PLAN - POWER**  
SCALE: 1/4" = 1'-0"



PANEL NO.: H (BASEMENT)				AC RATING: 22,000							
PANEL TYPE: 120/240V 1Ø 3W				MARR: 400 AMP M.C.D.							
NO. OF POLES: 42				PANEL MOUNTING: SURFACE							
DESCRIPTION	WIRE/CABLE	CONNECTED LOAD		Ckt. No.	TRIP	FRAME	Ckt. No.	TRIP	FRAME	WIRE/CABLE	DESCRIPTION
		A	B								
BASEMENT LIGHTING	#12/2 MC	0.70	1.10	100	20	1	2	20	100	#12/2 MC	EH-1
1ST FLOOR LIGHTING	#12/2 MC	0.80	1.10	100	20	3	4	1	1	#12/2 MC	EH-1
RESID ROOM	#12/2 MC	0.80	1.10	100	20	5	6	20	100	#12/2 MC	EH-1
BASEMENT RECS.	#12/2 MC	0.54	0.54	100	20	7	8	1	1	#12/2 MC	EH-1
PARLOR RECS.	#12/2 MC	1.08	1.08	100	20	9	10	40	100	#12/2 MC	EH-1
DINING ROOM RECS.	#12/2 MC	0.72	0.72	100	20	11	12	1	1	#12/2 MC	EH-1
ENTRY HALL RECS.	#12/2 MC	0.54	0.54	100	20	13	14	30	100	#12/2 MC	EH-1
FOYER RECS.	#12/2 MC	0.72	0.72	100	20	15	16	1	1	#12/2 MC	EH-1
GARBAGE DISPOSAL	#12/2 MC	1.66	1.66	100	20	17	18	15	100	#12/2 MC	EH-1
SMALL APPLIANCES	#12/2 MC	1.50	1.50	100	20	19	20	1	1	#12/2 MC	EH-1
SMALL APPLIANCES	#12/2 MC	1.30	1.30	100	20	21	22	20	100	#12/2 MC	EH-1
REFRIGERATOR	#12/2 MC	1.20	1.20	100	20	23	24	20	100	#12/2 MC	EH-1
OFFICE RECS.	#12/2 MC	0.90	0.90	100	20	25	26	125	200	#12/2 MC	EH-1
OFFICE RECS.	#12/2 MC	0.90	0.90	100	20	27	28	1	1	#12/2 MC	EH-1
SUMP PUMP	#12/2 MC	1.18	1.18	100	20	29	30	20	100	#12/2 MC	EH-1
EXTERIOR LIGHTING	#12/2 MC	0.80	0.80	100	20	31	32	20	100	#12/2 MC	EH-1
SPARE	---	---	---	100	20	33	34	20	100	#12/2 MC	EH-1
SPARE	---	---	---	100	20	35	36	20	100	#12/2 MC	EH-1
SPACE ONLY	---	---	---	100	20	37	38	1	100	#12/2 MC	EH-1
SPACE ONLY	---	---	---	100	20	39	40	1	100	#12/2 MC	EH-1
SPACE ONLY	---	---	---	100	20	41	42	1	100	#12/2 MC	EH-1
SUB-TOTAL		8.36	7.48								

LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND FACTOR	TOTAL
LIGHTS	2,600	Ø 125%	3,250 VA
RECIPIALES	11,120	1ST 10 KVA @ 100%	10,000 VA
		REMAINING @ 50%	560 VA
HVAC	12,827	Ø 100%	12,827 VA
MISCELLANEOUS	22,422	Ø 100%	22,422 VA
	53,971		54,061 VA
			(229.3 AMPS)

\* CIRCUIT CONTROLLED TO TURN ON/OFF VIA ASTRONOMIC TIMECLOCK.

PANEL NO.: A (SECOND FLOOR)				AC RATING: 10,000							
PANEL TYPE: 120/240V 1Ø 3W				MARR: 125 AMP M.L.O.							
NO. OF POLES: 20				PANEL MOUNTING: FLUSH							
DESCRIPTION	WIRE/CABLE	CONNECTED LOAD		Ckt. No.	TRIP	FRAME	Ckt. No.	TRIP	FRAME	WIRE/CABLE	DESCRIPTION
		A	B								
LIGHTING (AFC)	#12/2 NM	0.80	1.26	100	15	1	2	30	100	#10/3 MC	WASHER/DRYER
LIVING ROOM RECS. (AFC)	#12/2 NM	1.88	1.88	100	15	3	4	1	1	#12/2 NM	REFRIGERATOR
WSP-2	#10/2 MC	1.68	1.68	100	30	5	6	20	100	#12/2 NM	REFRIGERATOR
RANGE HOOD/ MICROWAVE	#12/2 NM	1.20	1.20	100	20	7	8	50	100	#12/2 NM	ELECTRIC RANGE
DISHWASHER	#12/2 NM	1.20	1.20	100	20	11	12	20	100	#12/2 NM	GARBAGE DISPOSAL
SMALL APPLIANCES	#12/2 NM	1.50	1.50	100	20	13	14	20	100	#12/2 NM	SMALL APPLIANCES
BEDROOM (AFC)	#12/2 NM	1.20	1.20	100	15	15	16	20	100	#12/2 NM	BATHROOM
SPARE	---	---	---	100	15	17	18	15	100	#12/2 NM	SMOKE DETECTORS
SPARE	---	---	---	100	15	19	20	15	100	---	SPARE
SUB-TOTAL		5.38	5.54							9.40	8.96

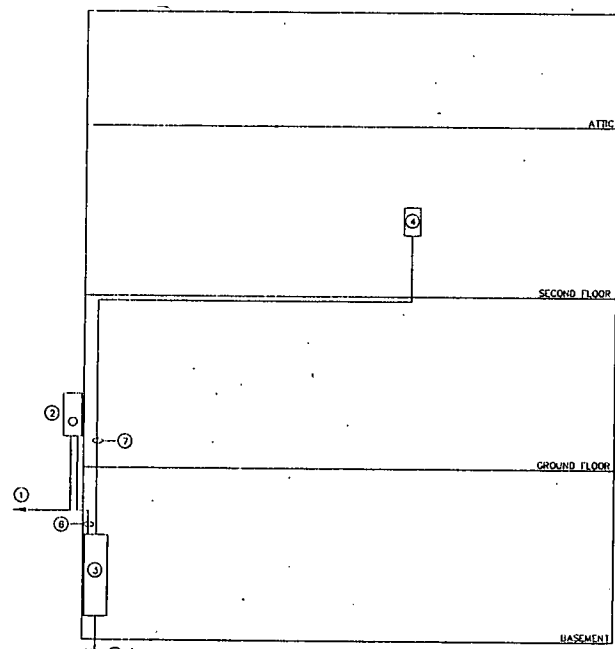
  

LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND FACTOR	TOTAL
GENERAL LIGHTING	25,320	1ST 10 KVA @ 100%	10,000 VA
		REMAINING @ 40%	6,128 VA
HVAC	3,765	Ø 100%	3,765 VA
MISCELLANEOUS	29,285	Ø 100%	29,285 VA
			20,093 VA
			(83.7 AMPS)

DEM DESIGN  
50 ANNECHON AVENUE  
ROCKVILLE, MARYLAND  
20850

MECHANICAL, ELECTRICAL AND PLUMBING  
DESIGN AND CONSTRUCTION  
SERVICES  
1400 WOODBURN DRIVE  
FREDERICK, MARYLAND  
21704-3800  
TEL: (301) 798-8800

Falling Green  
Restoration and Addition  
4501 Olney-Laytonville Road, Olney, MD 20832



POWER RISER DIAGRAM  
SCALE: 1/4" = 1'-0"

ITEM	DESCRIPTION
①	NEW 400 AMP 120/240V 1Ø 3W UNDERGROUND INCOMING ELECTRICAL SERVICE. REUSE EXISTING 4" PVC CONDUIT PRESENTLY SERVING THIS BUILDING. THE EXISTING 200 AMP 120/240V 1Ø 3W ELECTRIC SERVICE IS TO BE REMOVED. CONTRACTOR SHALL FULLY COORDINATE NEW ELECTRIC SERVICE WITH PERCO PRIOR TO COMMENCEMENT OF WORK.
②	NEW 120/240V 1Ø 3W 400 AMP TRANSOCKET IN NEMA 3R ENCLOSURE. REMOVE AND REPLACE THE EXISTING 200 AMP 120/240V 1Ø 3W METER IN SAME LOCATION.
③	NEW 400 AMP 120/240V 1Ø 3W PANEL 'H' WITH 400 AMP MCB. REFER TO PANEL SCHEDULE. PANEL SHALL BE LISTED AND LABELED FOR USE AS SERVICE EQUIPMENT.
④	NEW 125 AMP 120/240V 1Ø 3W LOADCENTER 'A'. REFER TO LOADCENTER SCHEDULE.
⑤	GROUND PER NEC - PROVIDE #1/0 AWG COPPER TO TWO 5/8" X 10' GROUND RODS. BOND WITH #1/0 AWG COPPER TO INCOMING WATER SERVICE.
⑥	3/500 KCM THRM/HHN IN 3" CONDUIT
⑦	#1/3 SER CABLE

Rev.	Date	Description

Sheet No: **PANEL SCHEDULES & POWER RISER DIAGRAM**

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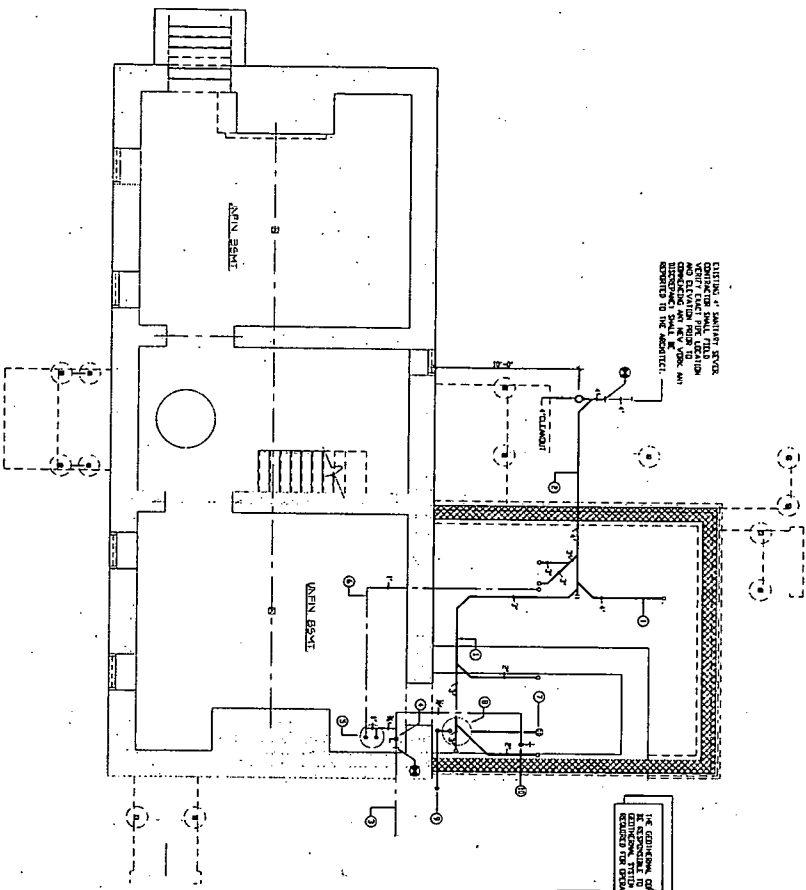
**MENDOZA, HIBAS, FARINAS & ASSOC.**  
CONSULTING ENGINEERS  
6265 Executive Boulevard, Rockville, Maryland 20852  
(703) 468-8882 (703) 775-2247 (301) 978-1100

E-06  
SHEET OF

43

lh

BASMENT FLOOR PLAN - PLUMBING



- DRAWING NOTES**
1. WASTEWATER SHALL BE DISCHARGED TO THE STREET THROUGH THE SEWER MAIN LINE.
  2. WASTEWATER SHALL BE DISCHARGED TO THE STREET THROUGH THE SEWER MAIN LINE.
  3. WASTEWATER SHALL BE DISCHARGED TO THE STREET THROUGH THE SEWER MAIN LINE.
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  10. WASTEWATER SHALL BE DISCHARGED TO THE STREET THROUGH THE SEWER MAIN LINE.

- PLUMBING NOTES**
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS.
  2. CONTRACTOR SHALL VERIFY ALL LOCAL CONDITIONS BEFORE BEGINNING WORK.
  3. CONTRACTOR SHALL VERIFY ALL LOCAL CONDITIONS BEFORE BEGINNING WORK.
  4. ALL SINK, TUB, AND SHOWER SHALL BE PERmitted TO BE USED.
  5. CONTRACTOR SHALL VERIFY ALL LOCAL CONDITIONS BEFORE BEGINNING WORK.
  6. CONTRACTOR SHALL VERIFY ALL LOCAL CONDITIONS BEFORE BEGINNING WORK.
  7. CONTRACTOR SHALL VERIFY ALL LOCAL CONDITIONS BEFORE BEGINNING WORK.
  8. CONTRACTOR SHALL VERIFY ALL LOCAL CONDITIONS BEFORE BEGINNING WORK.
  9. CONTRACTOR SHALL VERIFY ALL LOCAL CONDITIONS BEFORE BEGINNING WORK.
  10. CONTRACTOR SHALL VERIFY ALL LOCAL CONDITIONS BEFORE BEGINNING WORK.

Professional Registration. I hereby certify that these drawings were prepared or approved by me, and that I am a duly licensed Professional Engineer in the State of Maryland. License No. 39777 - Mechanical. EXPIRES: 12/31/2012

**MENDOZA, RIBAS, FARIÑAS & ASSOC.**  
CONSULTING ENGINEERS  
6050 Executive Boulevard, Rockville, Maryland 20850  
(301) 314-4444 (301) 314-4444 FAX

P-01  
SHEET 01 OF

Revision Table

No.	Date	Description
1		As Shown
2		
3		
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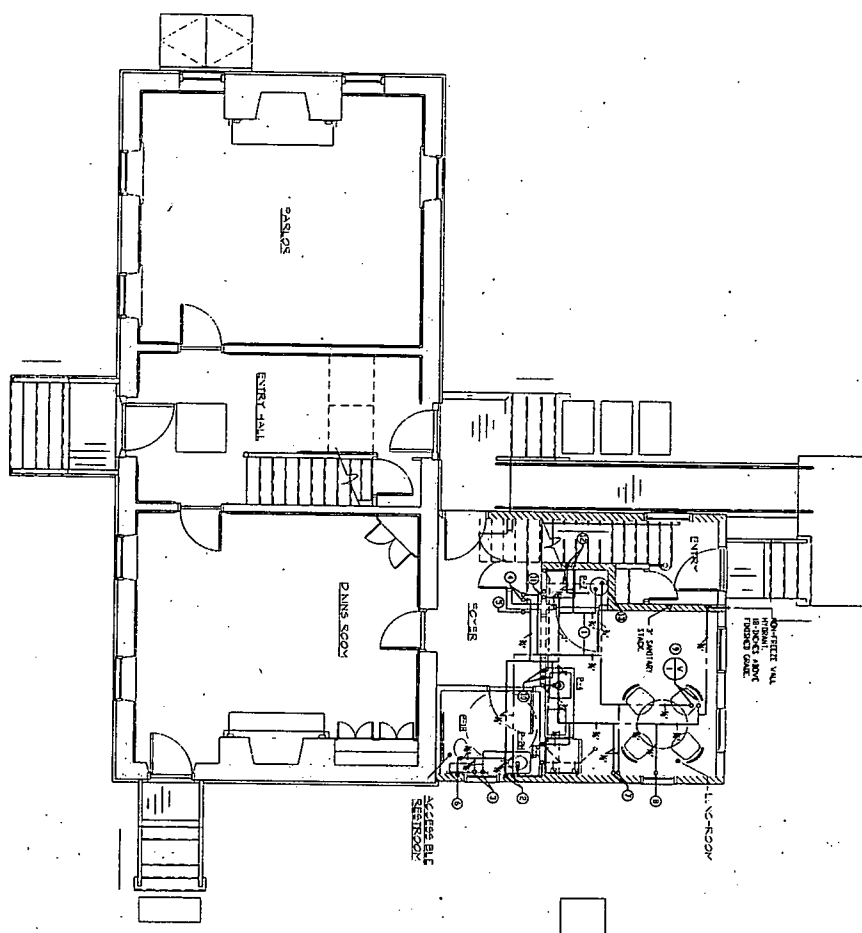
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Checked By: [Blank]  
Title: BASMENT FLOOR PLAN - PLUMBING

**Falling Green**  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

Project No. 11/2010  
 Date: 11/2010  
 Scale: As Shown  
 Drawing No. P-01

**CEM DESIGN**  
 605 ANDERSON AVENUE  
 SUITE 200  
 ROCKVILLE, MD 20850

sh



FIRST FLOOR PLAN - PLUMBING

- DRAWING NOTES**
1. SEE ALL NOTES ON SHEET P-01.
  2. SEE ALL NOTES ON SHEET P-02.
  3. SEE ALL NOTES ON SHEET P-03.
  4. SEE ALL NOTES ON SHEET P-04.
  5. SEE ALL NOTES ON SHEET P-05.
  6. SEE ALL NOTES ON SHEET P-06.
  7. SEE ALL NOTES ON SHEET P-07.
  8. SEE ALL NOTES ON SHEET P-08.
  9. SEE ALL NOTES ON SHEET P-09.
  10. SEE ALL NOTES ON SHEET P-10.
  11. SEE ALL NOTES ON SHEET P-11.
  12. SEE ALL NOTES ON SHEET P-12.
  13. SEE ALL NOTES ON SHEET P-13.
  14. SEE ALL NOTES ON SHEET P-14.
  15. SEE ALL NOTES ON SHEET P-15.
  16. SEE ALL NOTES ON SHEET P-16.
  17. SEE ALL NOTES ON SHEET P-17.
  18. SEE ALL NOTES ON SHEET P-18.
  19. SEE ALL NOTES ON SHEET P-19.
  20. SEE ALL NOTES ON SHEET P-20.

Professional Engineer's Seal  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer in the State of Maryland.  
 License No. 1193010  
 My commission expires on 09/01/2016

**MENDOZA, RIBAS, FARRAS & ASSOC.**  
 CONSULTING ENGINEERS  
 6636 Executive Boulevard, Rockville, Maryland 20852  
 (301) 440-4444 (703) 776-3474 (301) 440-4444

P-02  
 SHEET OP

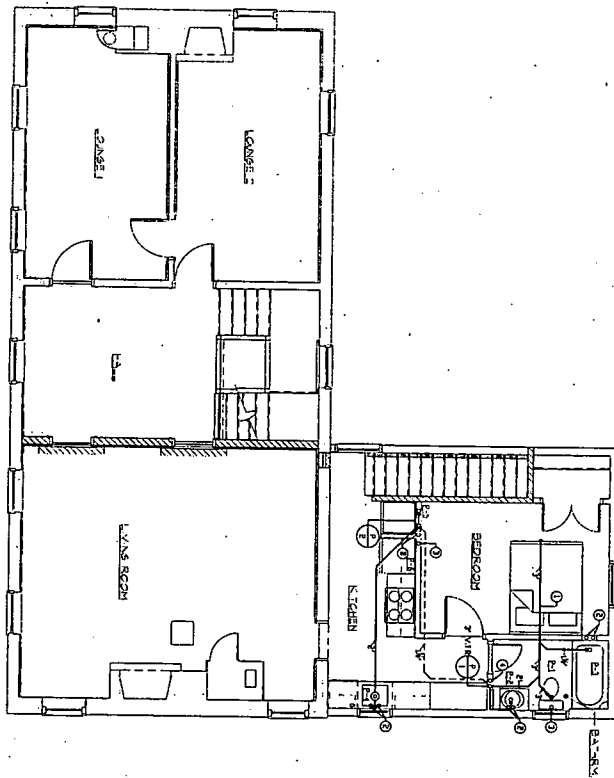
Sheet No.	Date	Revision	Description
1	11/30/10		1st Issue
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**Falling Green**  
 Restoration and Addition  
 4501 Olney-Laytonville Road, Olney, MD 20832

DATE PLOTTED: 11/30/10  
 PLOTTER: HP DesignJet 2400  
 PLOT SCALE: 1/8" = 1'-0"

**CEM DESIGN**  
 520 WALTERS ROAD, SUITE 200  
 ROCKVILLE, MD 20850  
 (301) 440-4444  
 FAX: (301) 440-4444  
 WWW.CEMDESIGN.COM

9h



SECOND FLOOR PLAN - PLUMBING

- DRAWING NOTES**
- 1. DRAWING NOT FOR CONSTRUCTION
  - 2. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND THE NATIONAL FIRE ALARM AND SIGNAL CODE.
  - 3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL FIRE ALARM AND SIGNAL CODE.
  - 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL MECHANICAL CODE AND THE NATIONAL FIRE ALARM AND SIGNAL CODE.

Professional registration is hereby certifying that these documents were prepared or approved by me, and that I am a duly licensed professional engineer in the State of Maryland.

**MENDOZA, RIBAS, FARIÑAS & ASSOC.**  
CONSULTING ENGINEERS  
8820 Executive Boulevard, Rockville, Maryland 20852  
Tel: 301-981-1000 Fax: 301-981-1001

P-03  
SHEET 01 OF 01

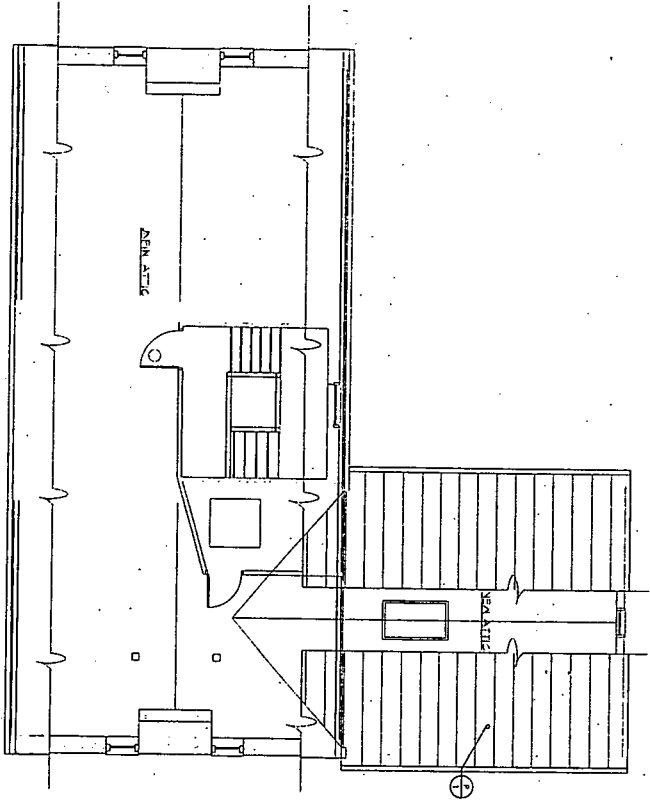
Revised	Date	By	Description

**Falling Green**  
Restoration and Addition  
4501 Olney-Laytonsville Road, Olney, MD 20832

Vertical Scale: 1/8" = 1'-0"  
Horizontal Scale: 1/8" = 1'-0"  
Date: 11/20/10  
Drawing No: P-03

**CEM DESIGN**  
800 ANDERSON AVENUE  
SUITE 200  
ROCKVILLE, MD 20850  
TEL: 301-771-0000  
FAX: 301-771-0001

th



ATTIC FLOOR PLAN - PLUMBING

Professional Engineering - I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer in the State of Maryland, License No. 10-012, expiration date: 09/30/10.

**MENDOZA, RIBAS, FARIÑAS & ASSOC.**  
CONSULTING ENGINEERS  
6245 Executive Boulevard, Rockville, Maryland 20852  
(301) 761-3300 (301) 761-3307 (301) 761-3308

P-04  
SHEET OF

No.	Revised	Description	By	Check
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**Falling Green**  
Restoration and Addition  
4501 Olney-Laytonville Road, Olney, MD 20832

NOTED: SEE SHEET P-03 FOR  
REVISIONS TO THIS SHEET  
DATE: 09/30/10

**CEM DESIGN**  
320 ANDERSON AVENUE  
507 2ND FLOOR  
BETHESDA, MD 20814

**CEM DESIGN**  
 530 ANDERSON AVENUE  
 ROCKVILLE, MARYLAND  
 20154-0087 30830

Member, RIBAS, FARINAS & ASSOC.  
 4501 OLNEY ROAD, SUITE 20832  
 ROCKVILLE, MD 20852  
 TEL: (301) 441-8800  
 FAX: (301) 770-0587

**Falling Green**  
 Restoration and Addition  
 4501 Olney-Laytonsville Road, Olney, MD 20832

Issue Date: 11/30/10

Rev.	Date	Description	By
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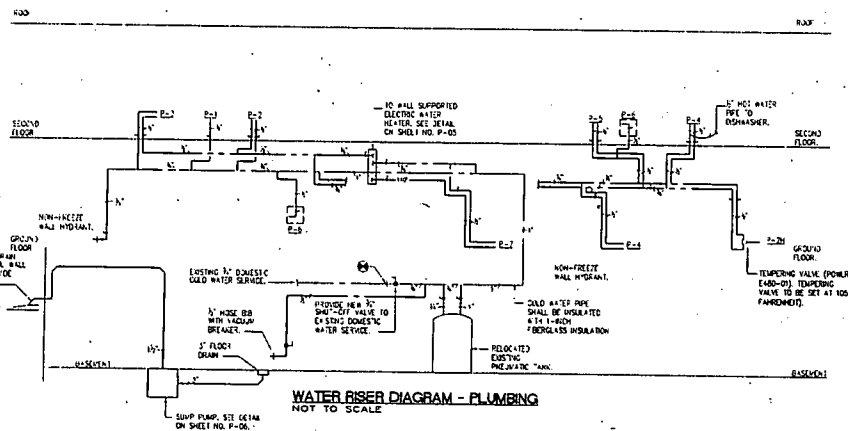
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**P-05**

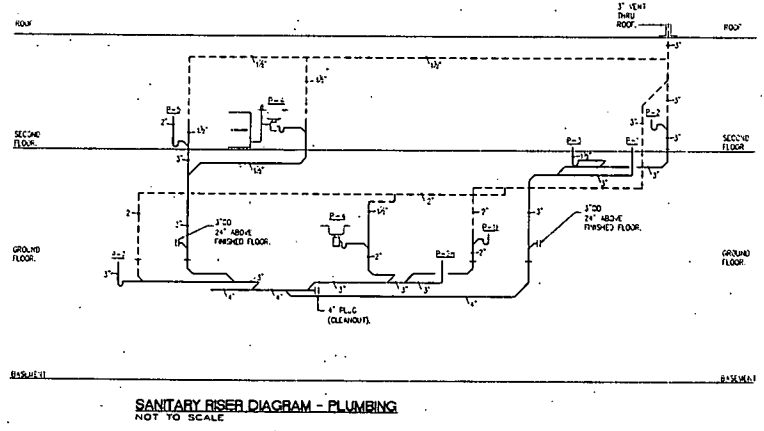
SHEET OF

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, license No. 7497, expiration date: 10/20/12.

**MENDOZA, RIBAS, FARINAS & ASSOC.**  
 CONSULTING ENGINEERS  
 6265 Executive Boulevard, Rockville, Maryland 20852  
 (301) 441-8800 (301) 770-0587 (301) 770-0587



**WATER RISER DIAGRAM - PLUMBING**  
 NOT TO SCALE

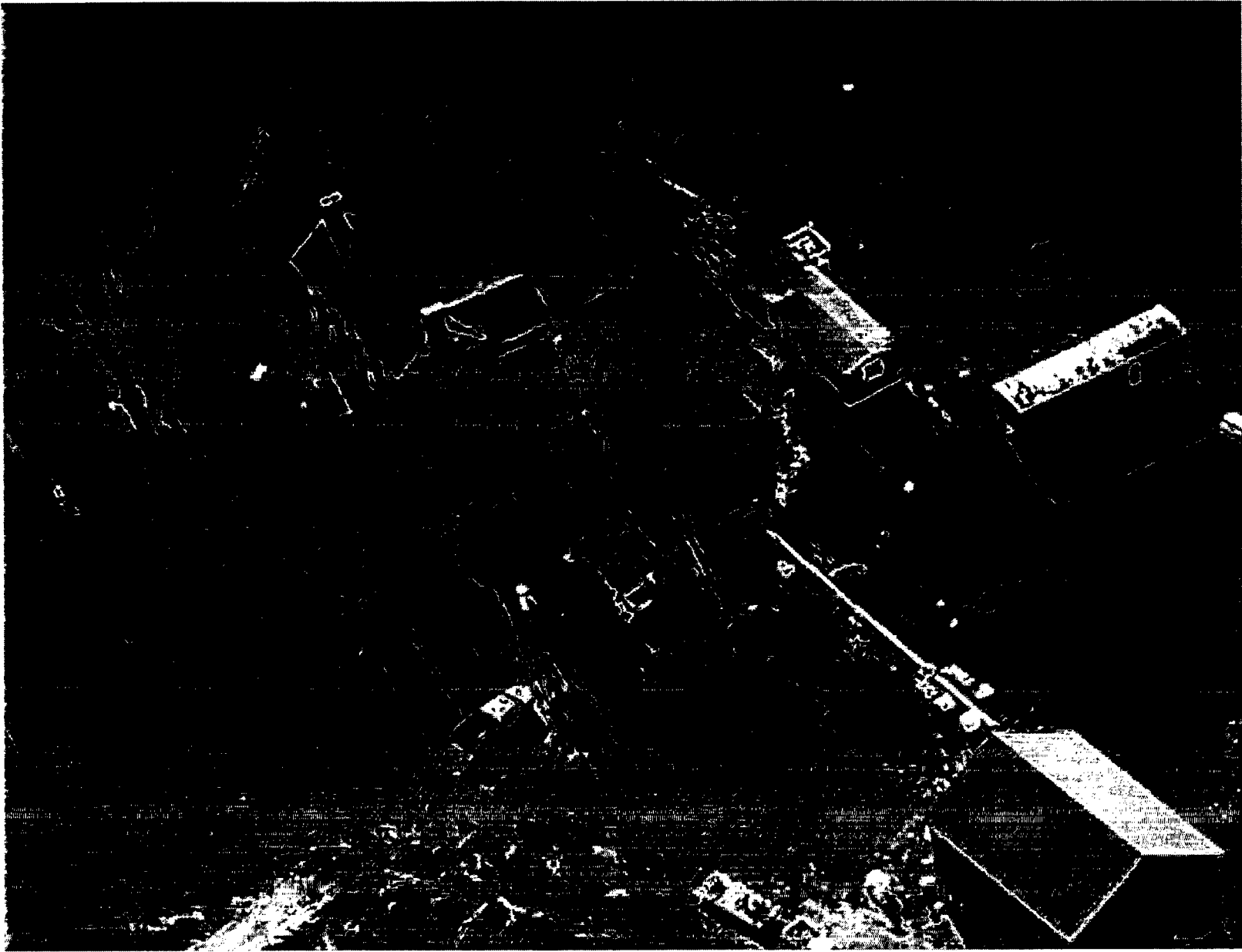


**SANITARY RISER DIAGRAM - PLUMBING**  
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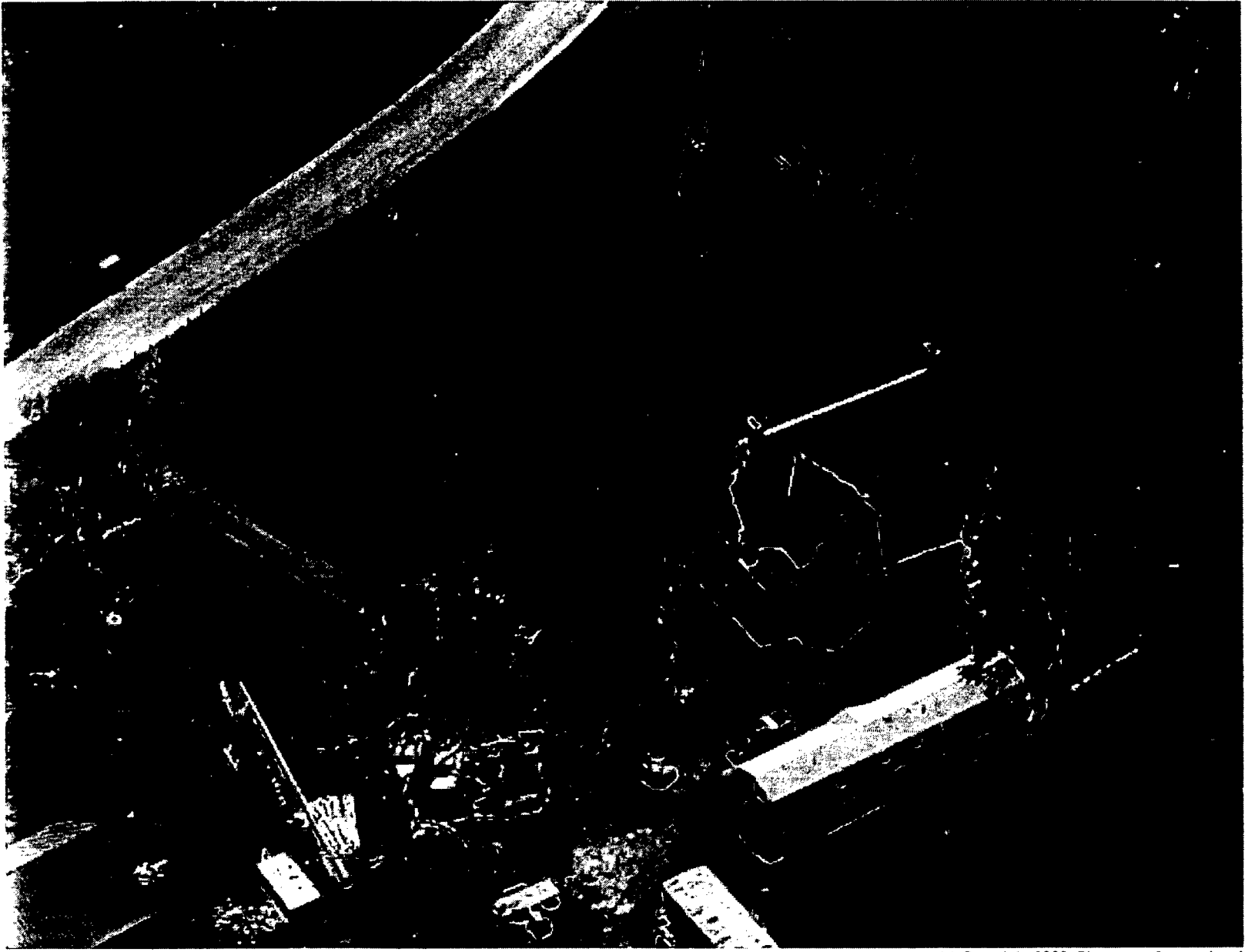
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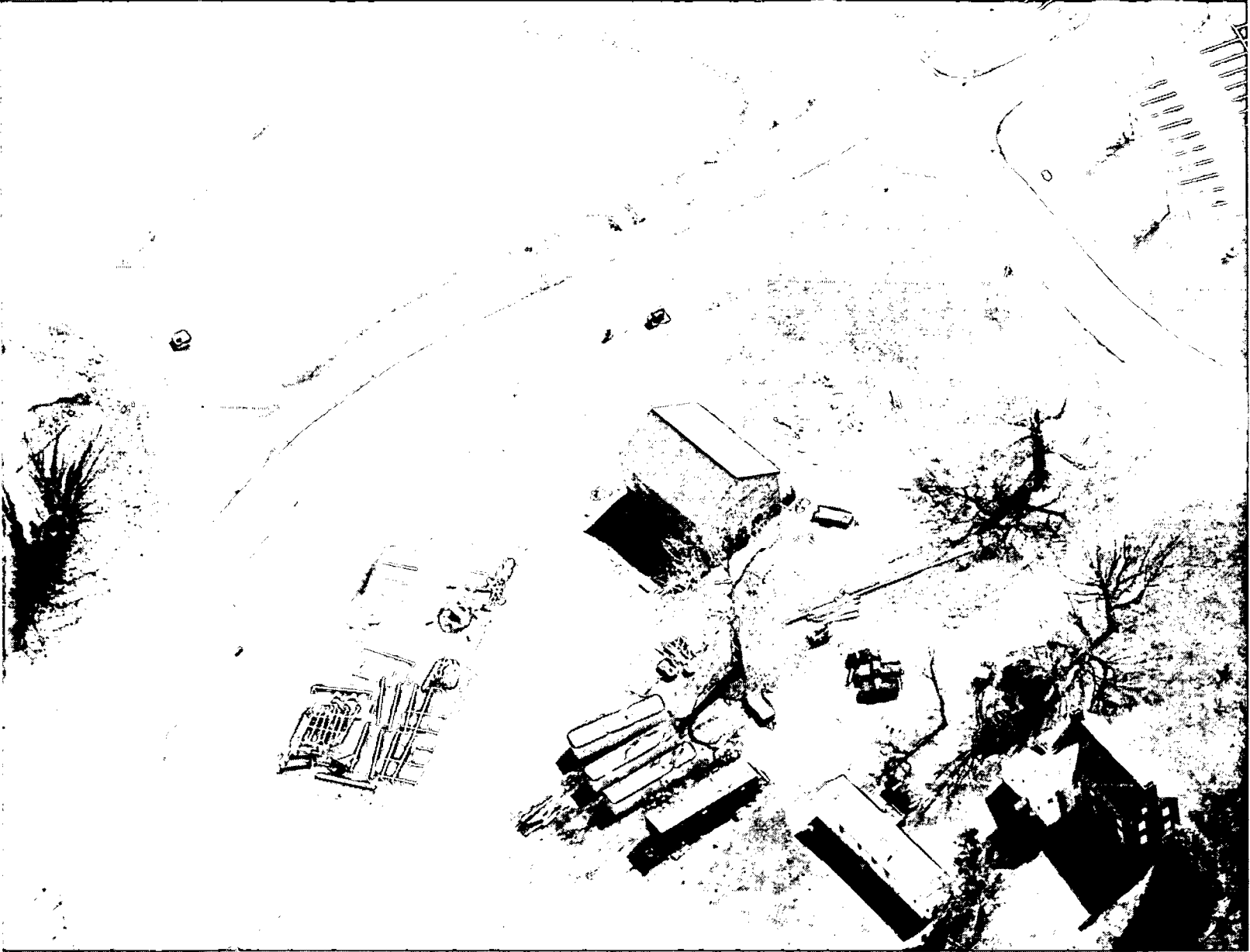




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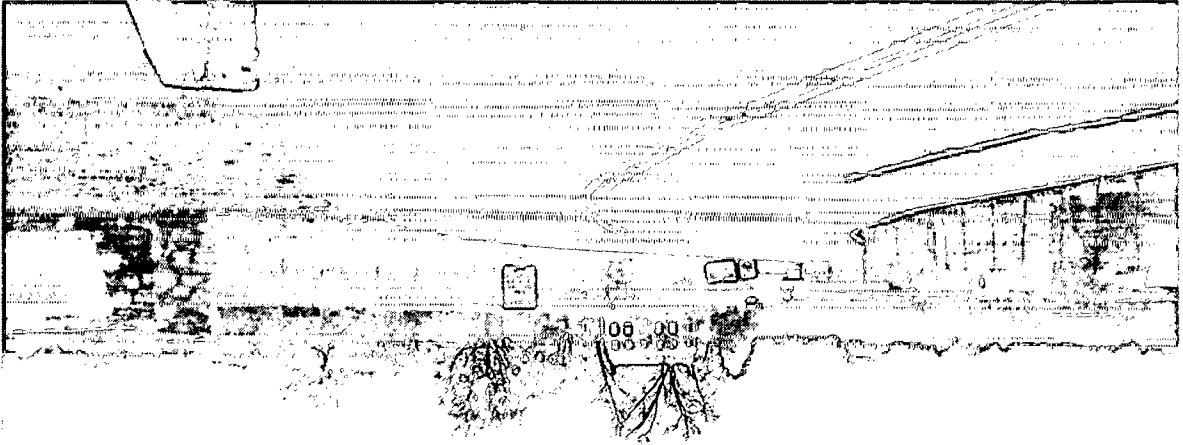


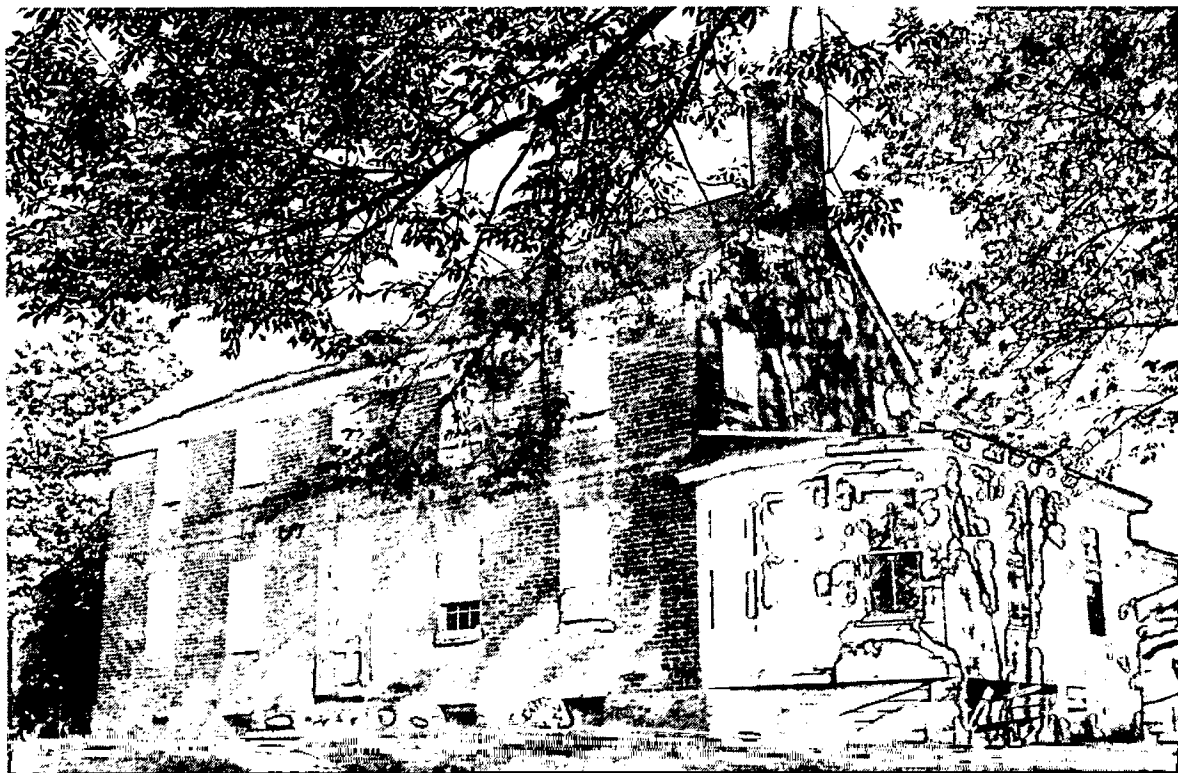
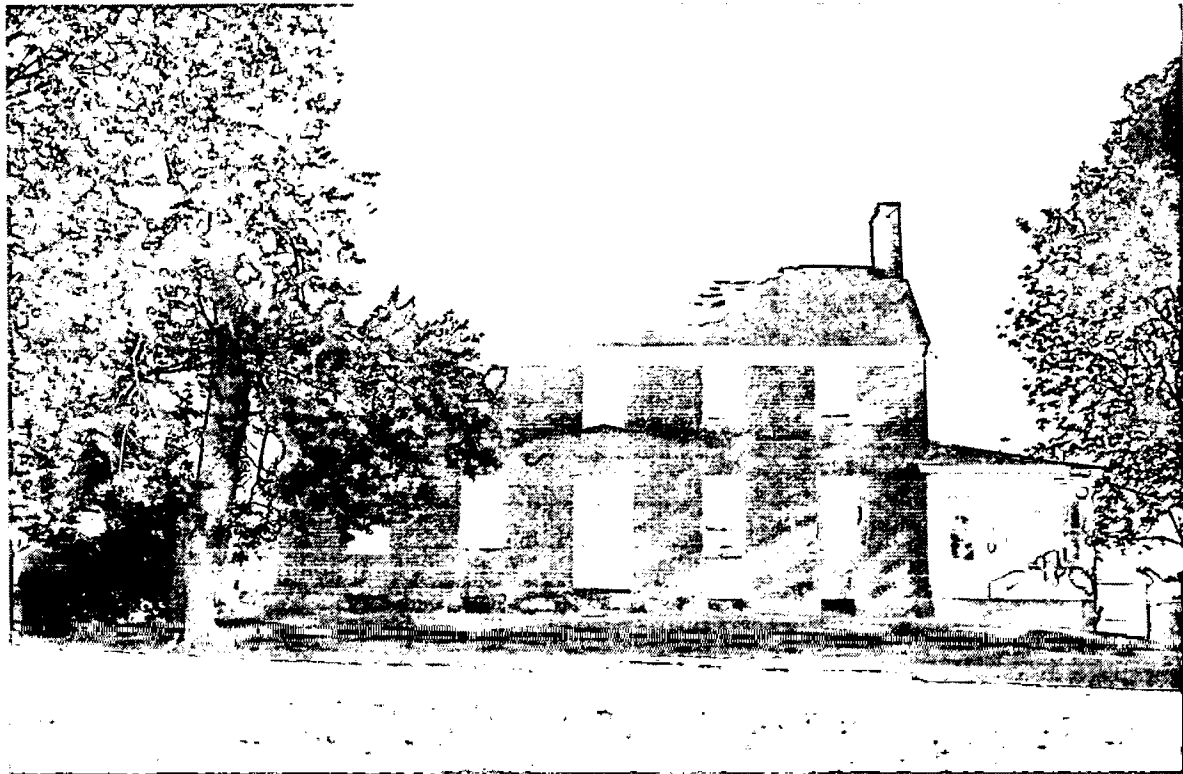
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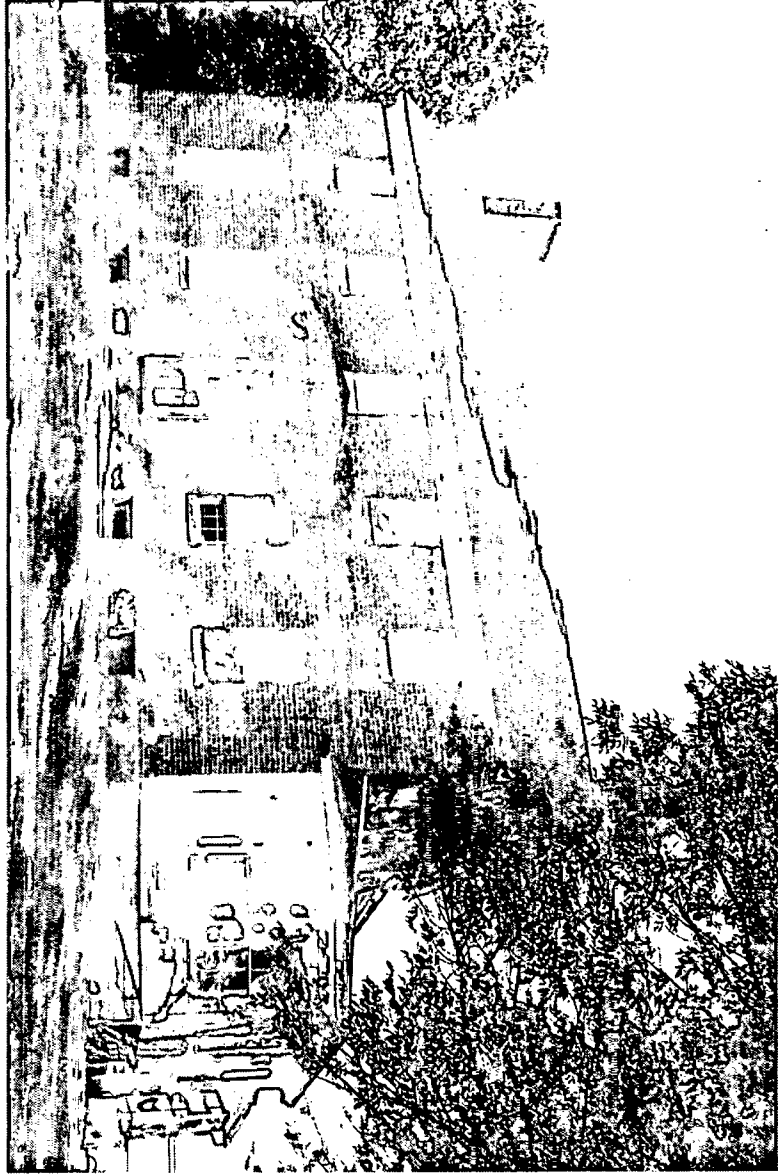


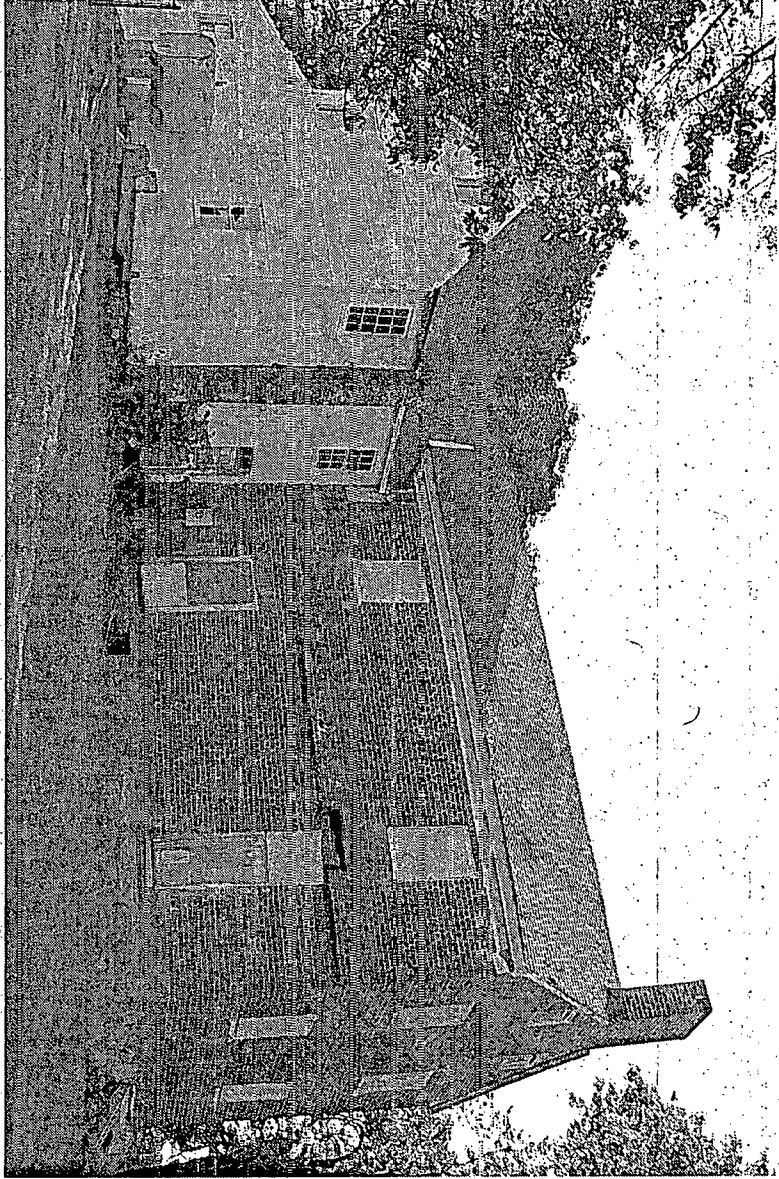
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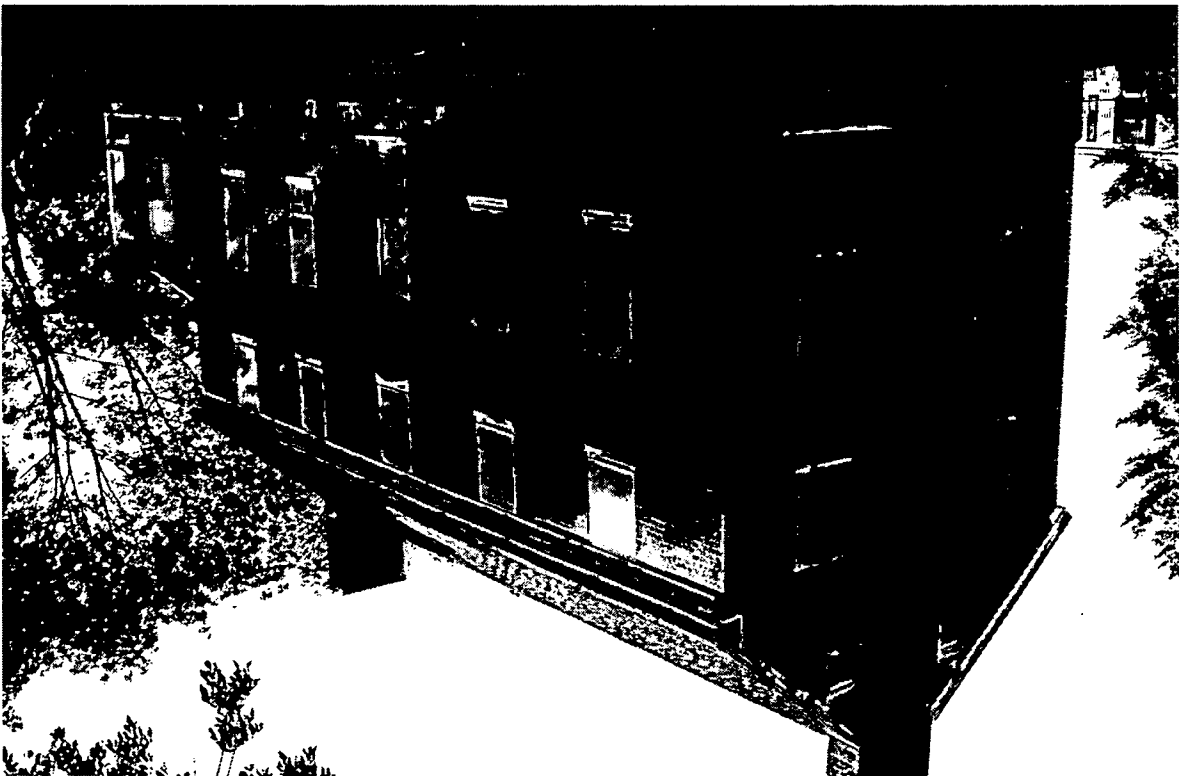


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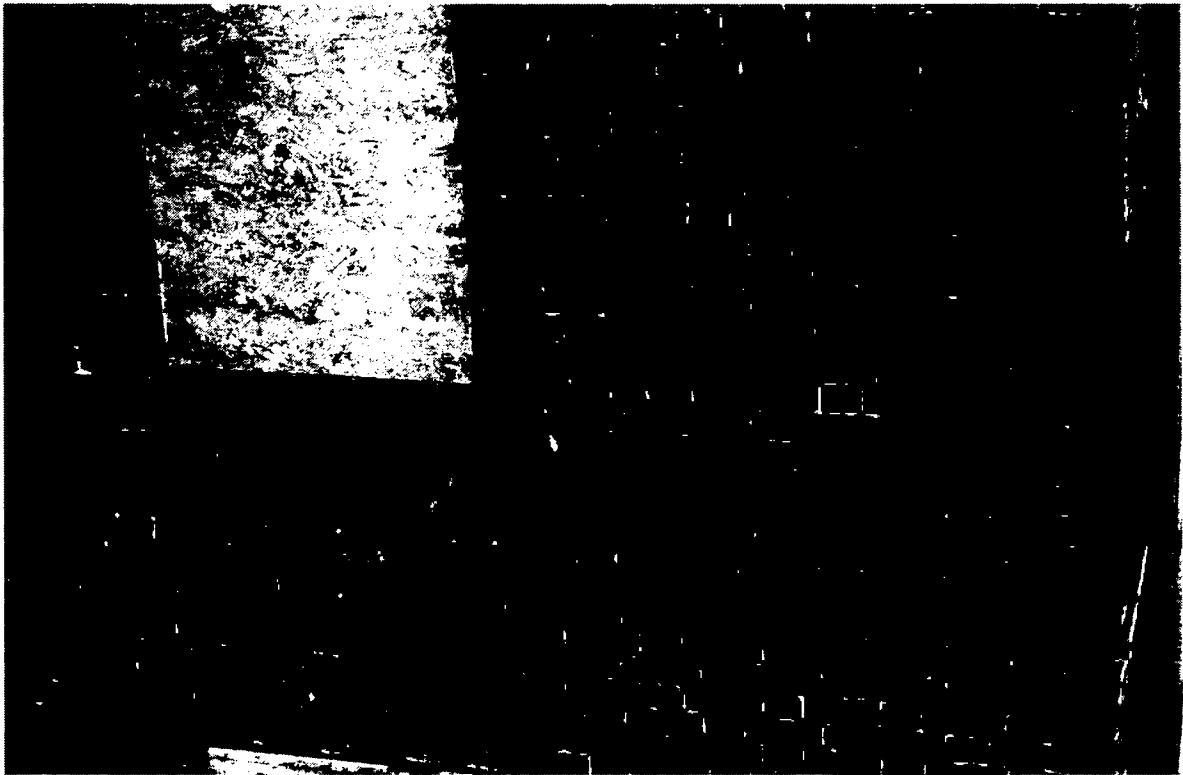


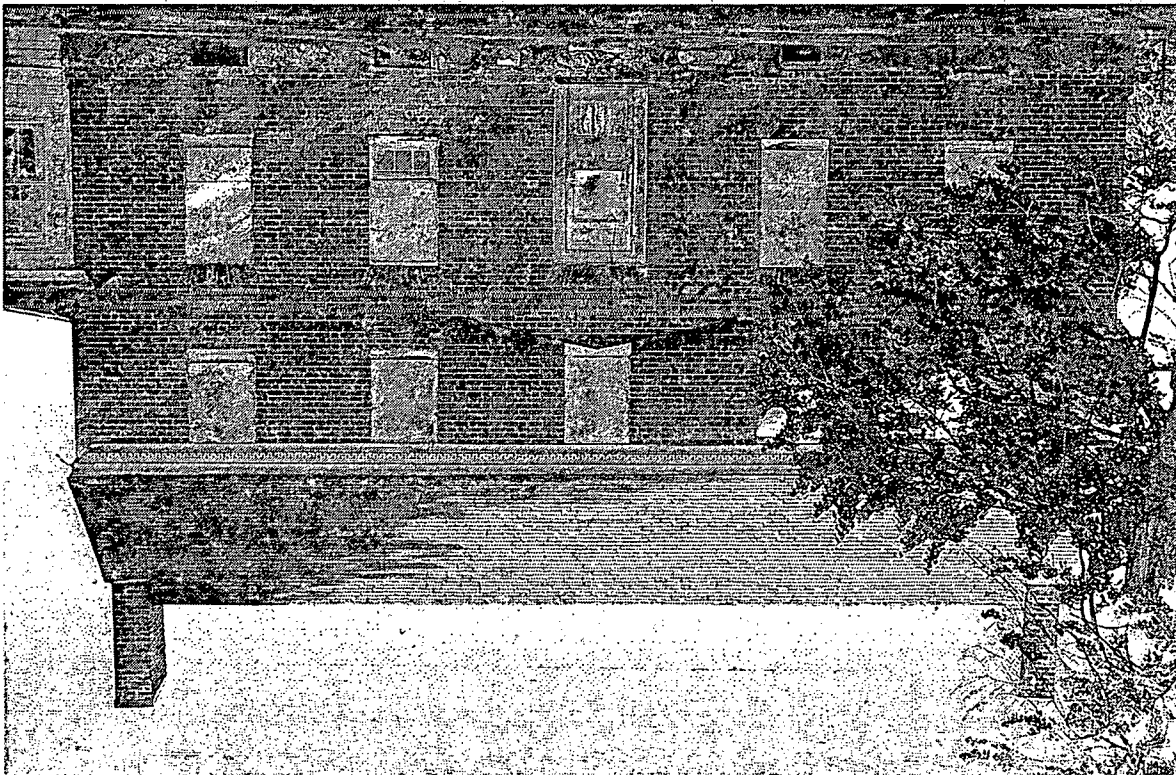


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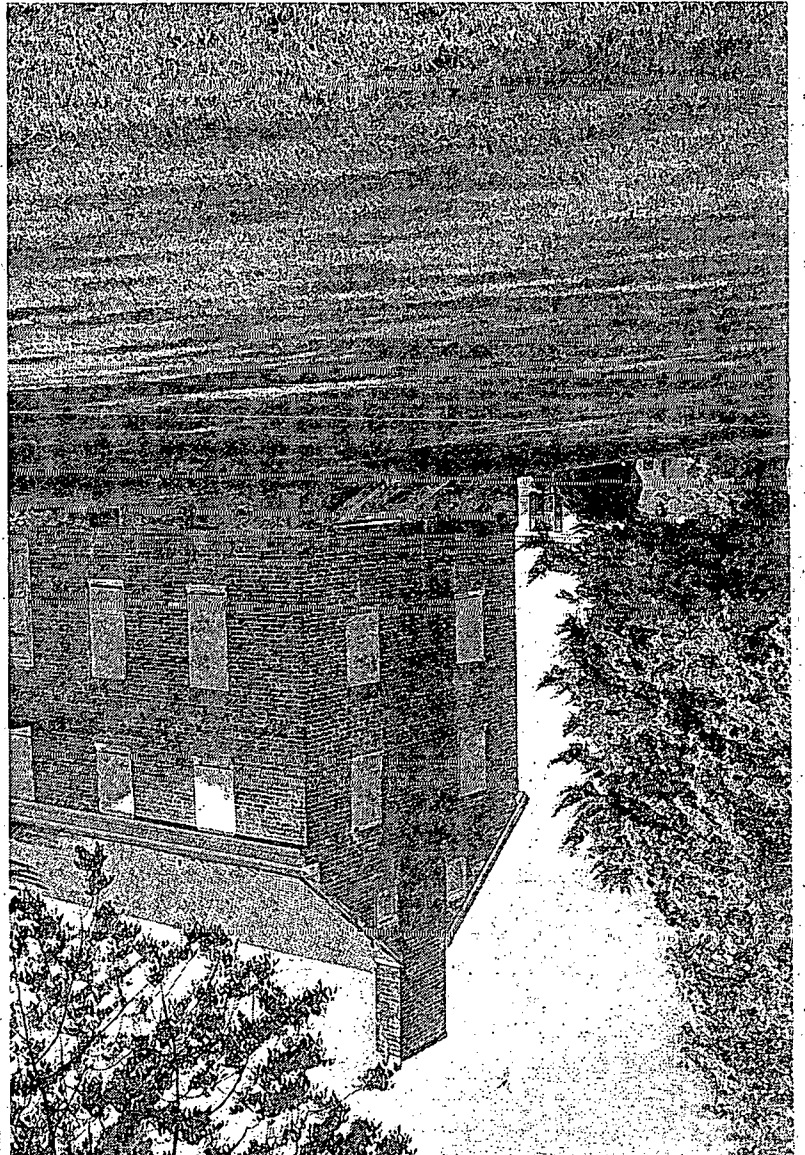
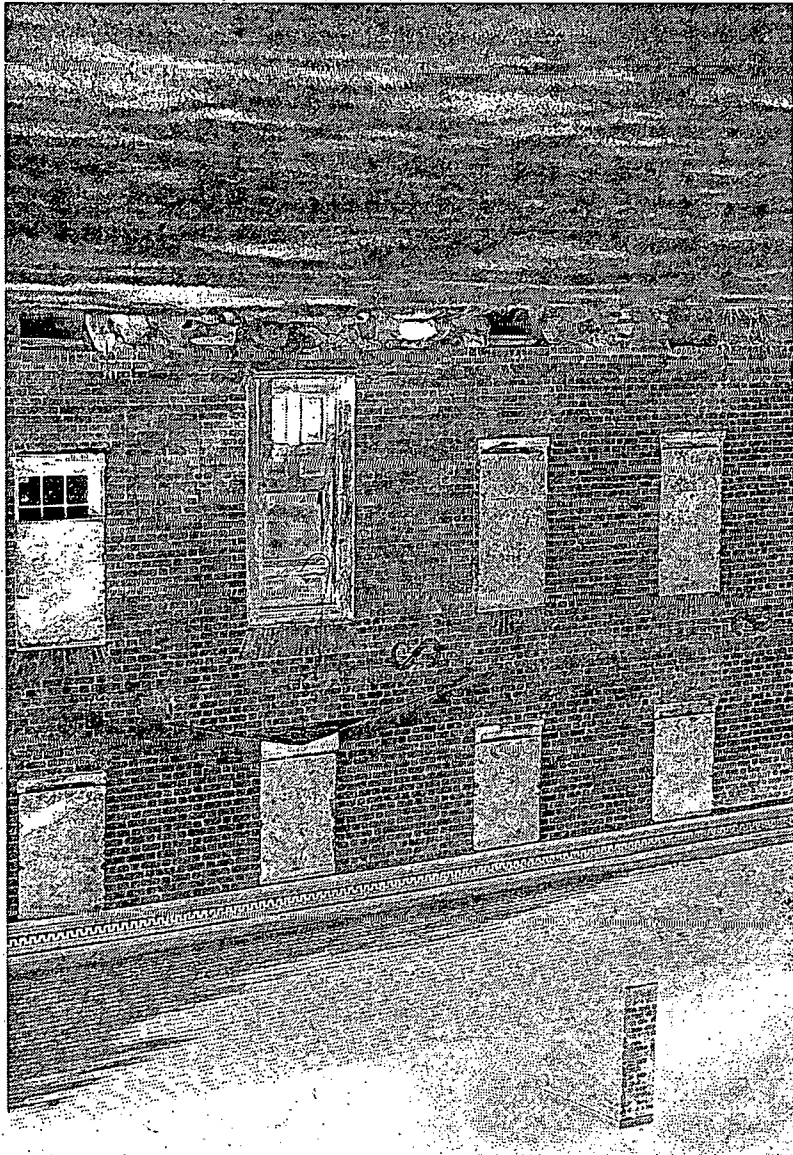


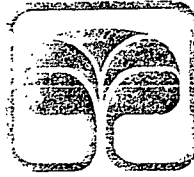
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19





**Lew Bloch**  
Bloch Consulting Group

April 1, 2005

Ms. Kathy Lyons  
Olney boys and Girls Club  
16301 Batchellors Forest Road  
Olney, Md. 20832

RE: Tree Study at Olney boys and Girls Club Community Park

As you requested, I made a site visit inspection at the above mentioned property at 4501 Olney-Laytonsville Road, Olney, Md. The purpose of this inspection was to ascertain the health and condition of the trees around the existing old house, to measure the size of them and locate them on a plan that you provided to me, and to comment on any impact to them from the proposed new construction that you described to me.

I am enclosing the plan that you provided with the trees marked A through L and have listed them below with their species, size and condition.

A	Red maple	29"	Very poor
B	Norway maple	45"	Fair
C	American holly	24"	Good
D	Norway spruce	12"	Fair
E	Norway maple	32"	Poor
F	Norway maple	20"	Poor
G	Red maple	21"	Poor
H	Sycamore	60"	Very poor
I	Red cedar	13"	poor
J	Norway maple	22"	poor
K	Norway maple	12"	Fair
L	Norway maple	35"	Poor

As you can see, most of the trees in this area are in poor or very poor condition. There is a considerable amount of dead and weak wood in them and they need a thorough crown cleaning and crown thinning. Furthermore, there is a lot of trunk damage and root damage in many of them. As to the large sycamore, I submitted a report on this tree on September 20, 2003.

It is my opinion that none of these trees will be affected adversely enough to cause serious problems from the proposed new construction as it was described to me.

I certify that the statements made in this report to be true and correct to the best of my knowledge. The opinions expressed are my personal, unbiased professional opinions and conclusions, and I have no present or prospective interest in the vegetation that is the subject of this report. I have no personal interest or biases with respect to the parties involved, and have based my report on the situation as I have seen it.

My compensation is not contingent on the reporting, the attainment of a stipulated result, or the occurrence of a subsequent event.

My opinions and conclusions were developed, and this report prepared in conformity with standard arboricultural practices, and my expertise and experience as a consulting arborist.

I further certify that I made a personal inspection of the property, and no one provided any significant professional assistance to this report.

As an arborist, I am a tree specialist and use my knowledge, education, training and experience to examine trees, recommend measures to enhance their beauty and health, and attempt to reduce the risk of living near trees. As the client, you may choose to accept or disregard these recommendations, or seek additional advice.

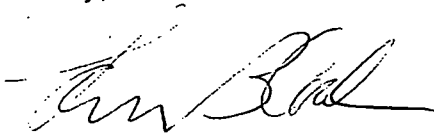
An arborist cannot detect every condition that could possibly lead to a tree or limb failure. Trees are living organisms that may fail in many ways we do not fully understand. Conditions are often hidden within the trees and below the ground. As arborists, we cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Sometimes trees may appear "healthy," but may be structurally unsound. Likewise, remedial treatment, like any medicine, cannot be guaranteed.

Furthermore, certain trees are borderline cases as to whether they should remain or be removed. Also conditions change, and a tree may need further monitoring in the future to determine its health and structure. Of course the only really safe option is removal.

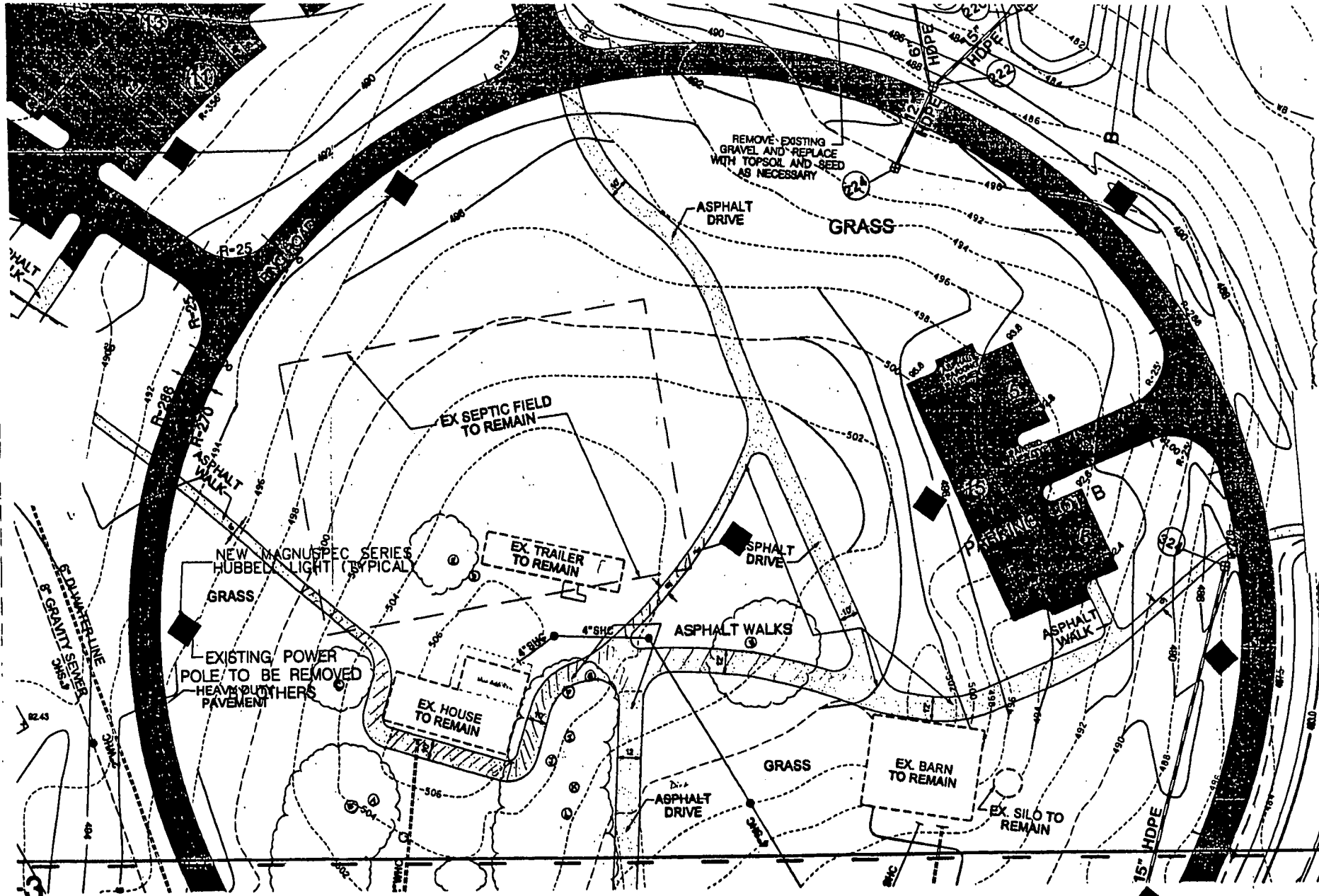
*Trees can be managed, but they cannot be controlled, and to live near a tree is to accept some degree of risk. The only way to eliminate all risks is to remove all trees.*

Thank you for the opportunity to be of service and if you have any questions do not hesitate to call.

Sincerely,



Lew Bloch, Registered Consulting Arborist



MISSISSIPPI  
 MISSISSIPPI  
 MISSISSIPPI

MISS UTILITY NOTE  
 ADD OR REMOVE FROM PLAN AS NECESSARY

AS BUILT  
 DATE OF AS BUILT  
 1/1/00  
 1/1/00

64

June 15, 2003

Mr. J. Rodney Little  
Director  
Maryland Department of Housing and Community Development  
Division of Historical and Cultural Programs  
100 Community Place  
Crownsville, Maryland 21032

Dear Mr. Little:

In accordance with your letter dated January 16, 2003 to Mr. Douglas Datt, and under the terms of the Maryland Historical Trust Historic Preservation Easement, enclosed is The Olney Boys and Girls Community Sports Association's Rehabilitation Plans for Falling Green. These are being submitted within the extended timeframe allowed and prior to the deadline of July 16, 2003.

We hope that the submission meets with your approval. The plans were drafted in a format recommended by Mr. Richard Brand of your office, who assisted OBGC in completing the renovation of the 1880's barn on the property.

My name is Kathy Lyons. I am the OBGC volunteer who drafted the recommendations. I am a former business executive who is also a member, and prior Board Member of Montgomery Preservation. In 1996, I defined and oversaw the renovation of historic Willow Grove, circa 1850, in Montgomery County. Willow Grove is my home. A complete renovation was undertaken as well as an addition added in the rehabilitation of the home. Since that time, the house and its addition as well as a renovated hay barn and springhouse on the property have won Montgomery County Historic Preservation Awards. I am an advocate for preservation and have volunteered my time to OBGC to assist them in this wonderful and significant preservation project.

Please advise me as to the next steps in the process and whether any additional information is required by The Trust's Easement Committee in order for these recommendations to be acceptable under the terms and conditions of the easement. I will be on travel out of the country from June 19 through July 3, if something significant is required before my return, please contact Elizabeth Deal in the OBGC offices.

Sincerely,

Kathy Lyons  
OBGC Volunteer Preservationist

65



# Falling Green Rehabilitation Recommendations

Olney Boys and Girls Community Sports Association  
P.O. Box 2  
Olney, Maryland 20832  
301-570-3990

Submission Prepared By:  
Kathy Lyons, OBGC Volunteer Preservationist  
301-570-5577  
KMHLyons@aol.com

June 15, 2003

In accordance with the Deed of Preservation Easement, Section 3(D)(vii)(b) between the Maryland Historic Trust and the Olney Boys and Girls Community Sports Association (OBGC), "Grantor shall supply Grantee with plans and specifications for the rehabilitation of the main house acceptable to the Director..." and as per a letter dated January 16, 2003, from J. Rodney Little, Director, extending the deadline for said rehabilitation plans to July 16, 2003; contained in this document are OBGC's recommendations to meet these requirements. The content of these recommendations was defined based on a conversation between OBGC and Mr. Richard Brand of the Maryland Historic Trust.

## INTRODUCTION

More than ten years ago, OBGC in an effort to accommodate their expanding membership, began an extensive search for a "Field of Dreams." OBGC has offered after-school sports and recreational programs since 1969 to thousands of children, and has been a member of the Olney community longer than the vast majority of its residents, businesses, and local services. The OBGC Board's diligence paid off with the purchase of Falling Green, a 118-acre parcel of land that was well suited to the construction of youth athletic fields and facilities, while preserving a key part of Montgomery County's historic past. The original owners of this property, the Brooke family, have a long and prestigious history in Olney, Montgomery County and the State of Maryland. The property includes the original Brooke Family estate built in circa 1770, and a barn originally constructed in 1880. The barn was recently restored in keeping with building methods employed in the late 1800's and its craftsmanship and renovation techniques were recognized with a 2003 Montgomery County Award for Historic Preservation.

OBGC is in the process of incorporating the history associated with this site into its usage for the future - "Preserving Our Past, Preparing Our Future" - which it believes embodies all that it represents as an organization. Retaining the historic home and barn on this site is critical to keeping the rich history of OBGC and the community alive.

From the beginning, OBGC has been working closely with the state and local agencies, local businesses and community leaders, and OBGC members to help ensure the project's success and design a recreational park that meets environmental, historic and community demands. OBGC retained the services of a highly regarded engineering and development firm and a design and architecture firm to assure minimal impact on the environment while maintaining the property's historic significance. This philosophy was carried forward in the barn restoration and in this proposal for rehabilitation of the house.

The property known as Falling Green is a remnant of an 18th-century farm located in northeastern Montgomery County, Maryland, west of Olney. The property, including the two-story, pre-Revolutionary brick dwelling, was owned by several generations of the Brooke family, having been passed down from James Brooke, a Quaker and founding member of the Sandy Spring Meeting. The house, in its present condition, has not been occupied for some eight to ten years. The structure sited at the top of a gently sloping hill and facing south towards Route 108, was named Falling Green in the early 19th century by Mary Briggs Brooke, wife of Richard Brooke. Falling Green is a large and gracious two-story, five-bay, brick dwelling constructed circa 1770. The dwelling sits upon a rubble stone

foundation, has brick walls laid in Flemish bond and a gable roof with slab end chimneys. The windows have original 9/6 and 6/6 sash with gauged and rubbed brick jack arches on the first story. An early 20th century single-story wood frame addition projects from the east side of the house, while a two-story, gable-roofed frame wing, a product of several building campaigns, projects from the rear. A shed-roof porch addition extends this wing and connects to the east side projecting bay (for purposes of this document, this addition is considered part of the "Side Addition.") The brick structure survives as an excellent example of its type, with refined brickwork, high-quality craftsmanship, and sophisticated interior detailing.

In addition to the complete restoration/rebuilding of the circa 1880 barn, the house has had remedial work done to include repair of openings between the exterior wall and fascia boards; windows boarded up to protect them from vandalism; attic window replaced with vented insert to provide adequate airflow; basement support beams scraped of old insect damage and mildew and treated with a Timbor solution to stave off further deterioration; perimeter treatment to prevent termite infestation; repair of side addition roofing that came loose with winter snows; and a general cleaning of the house to remove debris and items that might attract unwanted rodents or other varmints. All work performed to date on the house has been provided by OBGC volunteers or on a pro bono basis from professionals in the trades.

The structure of this report will be as follows: OBGC's Plan for Usage of the House, Recommendations for Rehabilitation of the structure - - Disposition of the two additions to the brick structure, and Scope of Work/General Rehabilitation to bring the house back to full usage.

#### **OBGC'S PLAN FOR USAGE OF THE HOUSE**

Noting the historic significance of the brick structure and the survival through the years of many period details on the interior of the house, OBGC would like to preserve the structure to maintain an appearance and usage similar to that of its history. The organization would like to preserve these significant features and make minimal changes to the interior of the structure.

*OBGC Offices on the first floor* - It is suggested in the *Annals of Sandy Spring*, vol. IV., p. 278, that Edith Brooke, and her husband, Dr. William F. Green, closed their home in Brookeville and after making some alterations on the west side, moved to Falling Green in 1917. It is thought that Dr. Green saw patients and operated his practice from the home for a period of time after they moved and prior to his death. In keeping with this use of the home, OBGC would like to use the downstairs portion of the house as offices for the several staff members that it employs and to have meeting space for the Board. It would be OBGC's intent to have all office furniture as standalone pieces with standalone partitions if needed. No office furniture would attach to the walls or floor of the structure.

*Rented living space for caretaker on second floor* - The usage of this home as a residence is well documented and long-standing. The Brooke family lived in the dwelling for more than 200 years beginning with Basil Brooke, his wife Elizabeth, and their family, and ending with the two sisters Edith Brooke Green and Mary Brooke, who after selling the farm in 1949 remained as tenants, sometimes along with other renters, well into this century. OBGC has identified that it will need a caretaker on site to maintain the property and to groom the facility's many recreational fields as well as to provide a presence on the property to deter trespassing and potential property damage. At the present time, a caretaker leases the mobile home/trailer on site. The movement of the caretaker into rental space on the second floor would continue this concept that has already been employed.

## RECOMMENDATIONS FOR THE ADDITIONS TO FALLING GREEN

OBGC recommends that both the side and rear additions to Falling Green be removed. It is further recommended that a new 1 1/2 to 2 story addition be constructed to the back of the brick dwelling to house a kitchen for the home and bathroom for the office workers downstairs and a full bathroom/laundry room upstairs for the caretaker. The addition would also serve the purpose of creating viable space to run plumbing for the house and serve as the area of origin to run other whole house systems. It would be intended that a sufficient crawl space be designed for this service. It is recommended that the new addition either be designed and built so as not to be seen when facing the historic brick home (a porch or some other structure did previously attach to the back - see Attachment 1) or to salvage the remaining foundation from the rear addition and rebuild it to serve as the foundation for the new addition; thereby rebuilding using the same approximately 16 by 17 foot blueprint as this 20th century addition (see Attachment 2 - floor plan of Falling Green.) Architectural renderings and/or design and layout documents have not been developed pending Maryland Historic Trust's concurrence with this recommendation.

In discussions with Montgomery County Historic Preservation Staff in the early stages of the Park's development, there was concurrence on removal of the rear addition and agreement that if a period style addition were constructed, that the side addition did not possess historical significance to merit its remaining a part of the structure.

The recommendation to remove both the side and rear additions is supported when performing a structural analysis. Both of the additions to the brick dwelling have severely compromised structural integrity. Both have been assessed by a structural engineer and a building inspector whose conclusions were the same as Attachment 3 - Home-Tech Residential Inspection Summary. Additionally, a local building contractor who specializes in preservation and restoration work has encouraged the removal of the additions and construction of a new structure to house systems, a kitchen and bathrooms.

As the building inspector and structural engineer's report indicates, the side addition's main floor joist support beam is cracked in two and the brick footers that serve as the structure's foundation are deteriorating. The interior flooring falls away at a grade that is not conducive to supporting kitchen appliances and would have to be greatly reinforced to level it off. A verbal assessment made by Insulators of Maryland roofing company, indicates that the roof is pulling away from the ledger board along the house on the side addition resulting in water seepage into the walls and ceiling of the structure. As mentioned in the introduction, a temporary fix was made to this problem, but the roofer has indicated that the entire roofing system is compromised and would have to be completely replaced.

The rear addition is recommended for removal as the structural integrity is so greatly compromised that it is a safety hazard. As the attached report indicates and is supported by the structural engineer's assessment, the foundation of the structure is severely deteriorated and undermined. The exterior of the structure is severely damaged and covered in asbestos shingles. The chimney on the west side of the structure has become detached and is deteriorating. The interior of the rear addition is severely deteriorated due to openings in the wall and has extensive rotted wood.

Kim Prothro Williams, formerly of the Montgomery County Historic Preservation Commission staff and current HPC Commissioner and Architectural Historian and Preservation Consultant, who prepared a Historic Architectural Assessment Report on Falling Green, has also recommended the removal of both the side and back additions to preserve the historic integrity of the brick house. Attachment 4 is a letter containing her assessment and professional perspective.

In her report, Ms. Williams indicates that in December 1882, a frame conservatory was built to the dwelling house. This serves as the side addition today. Based upon historic photographs, (see Attachment 5) the conservatory was a shed-roof frame structure located on the east side of the house. This conservatory was replaced, probably around 1917-1918 by the present single-story projecting bay wing with 2/2 windows. According to Ms. Williams the side addition's one-story height and overall dimensions are not compatible with side wings commonly found attached to 18th and 19th-century dwellings. She purports that stylistically, the additions evokes a different period of construction outside of the period for which Falling Green is significant - - the side addition is clearly a 20th-century period addition to an 18th-century building. The side addition she contends, therefore, lacks historic integrity.

In her discussion of the rear addition, Ms. Williams recounts that the structure, originally built in 1863, but raised in 1891 and significantly reworked in 1917/1918, is a product of numerous building campaigns. She remarks that the interior, in particularly deteriorated condition, has exposed studs and ceiling joists that reveal 20th-century construction details, namely circular saw marks and machine cut wood lathe. The finishes, including vinyl tile floors are also a product of the 20th century. She stresses that the rear kitchen wing lacks historic integrity, as described in the *National Register of Historic Places, Bulletin 16A*. The rear addition, Ms. Williams comments, no longer retains the physical materials, design features or aspects of construction for which the property has gained significance. She further assesses that the rear addition lacks the workmanship, feeling, association, materials and design qualities that give the property its integrity.

Ms. Williams has encouraged OBGC to retain the enclosed stair found in the rear addition and to reuse it in a new addition. OBGC would salvage whatever materials to include flooring and recycle it to use it in the newly constructed addition as well.

Due to the extent and severity of damage and deterioration to the structural integrity of the side and rear addition, it is OBGC's contention that building a period style addition that complements the historic nature of the brick structure is the recommended proposal.

## SCOPE OF REHABILITATION

As OBGC is recommending the removal of both the side and rear additions, this scope of rehabilitation work to bring the house back to full usage pertains to the brick structure only; assuming construction of a new addition. The specific plans for the new addition, other than the usage discussed above, will be addressed once approval of the recommendations is granted. However, the structure will be period style frame construction 1 1/2 - 2 story, designed not to compete with the brick structure. The foundation will be cement block faced with stone from the raised rear addition foundation. Windows in the structure will be 6/6 wood, divided light, with mullions the same size as on the brick structure. Roofing materials will differ from, but compliment the historic nature of the home. Where possible, materials salvaged from the two additions, including windows, will be reused in the addition. A specific effort will be made to reuse the existing staircase that is housed in the rear addition.

### *Structural Systems*

Basement Floor Joists and Support Beams - A structural engineer has indicated that the beams in the basement will need to be reinforced due to old insect damage and to support office use on the first floor. Depending on code requirements, OBGC understands that support columns may also be required in the basement.

Foundation Sill - There is some rot of the sill in the basement over the windows. These areas will need to be replaced or reinforced.

Fireplace Chimneys - The chimneys from the attic up appear to have been rebuilt at some point in time. Repointing of brick as required would be done to the exterior and attic revealed portions of the chimneys. OBGC does not intend to use the fireplaces for wood fires. The fireplaces, however, need the fireboxes repaired, especially the main parlor/living room one, to patch or replace deteriorating brick. The hearths would also be repaired in similar manner, as would any structural problems detected by a certified Chimney Sweep.

Whole House Systems - Falling Green has not been occupied for at least 8 - 10 years and, therefore, none of the systems in the house are functional and/or do not meet present code requirements.

Electrical System - Although there is electrical service to the house with a 150 Amp panel box that meets present code requirements, a Master Electrician's assessment of the wiring in the house is that none of it is up to County code requirements and the interior would have to be completely rewired. His assessment is Attachment 6. To make installation easier, he recommends removal of the first floor ceiling. OBGC would replace the ceiling with wall board and skim coat it with plaster, if this recommendation is employed.

HVAC System - There is no heating or air conditioning system in existence at Falling Green. The original heat source, a coal burner in the basement, is not an option for heating the home. OBGC would propose installing a new heating and/or air conditioning system. The system would be one designed to be retrofitted into old homes with minimal if any duct work. The system would either originate from the new addition or be housed in either or both the attic and basement.

Plumbing System - The plumbing is not functional in the house. The brick dwelling does have a connection to the WSSC water line that was installed for the Park and sewer access is within a short distance of the home on the Park property. The house will need to be replumbed. It is recommended that all plumbing be laid through the new addition with the kitchen and bathrooms contained within that new structure. This will eliminate or minimize the need for plumbing going through the historic home.

#### Exterior Renovation

Roofing System - The roofing system and asphalt shingles are structurally sound. OBGC does not recommend replacing the roof in the initial restoration.

Brick Exterior Structure - The brickwork on the exterior of the structure is in good repair. OBGC does not recommend repointing or any other work be done to the exterior. Depending on where the new addition is sited, paint may need to be removed from the exterior brick that presently create an interior wall of the rear addition.

Gutter System - The house at present does not have a gutter and downspout system. Gutters and downspouts will need to be installed to prevent damage to the stone foundation. Additionally, the entire perimeter will require regrading to assist in moving water away from the house's foundation.

Soffit and Fascia Boards - All soffit and fascia boards as well as the original dental molding will need to be repaired and repainted.

Entrance Doors - All entrance doors will have to be rehung to close securely and be repainted to endure the weather.

Front Porch - OBGC would plan to rebuild the front porch as it would have existed originally, per the architectural historian's assessment: a single-bay wood porch with a gable roof to grace the front entrance. See

picture as Attachment 7.

### ***Interior Renovation***

The interior originally offered a central-passage, single-pile plan with two rooms on the first floor and four rooms above. In addition to the rear wing that was added for the kitchen service area, and the side wing that was originally the conservatory, several partition walls were built to accommodate a bathroom and to divide one room into two rooms. OBGC intends to retain the craftsmanship and sophisticated interior detailing that exists in this historic structure. Minimal modification will be made to the present layout; in fact, the only modifications being recommended are designed to restore the structure to its original floor plan.

#### **Whole House Renovations**

**Flooring** - All old vinyl will be stripped from the floors and the original tongue and groove hardwood floors will be cleaned, sanded and refinished.

**Walls and ceilings (plasterwork)** - Unless otherwise stipulated, all walls and ceilings will be preserved. Any channels created to aid in rewiring the house or for other whole house system accommodation will be repaired with drywall board and skim coated with plaster. The wallpaper that remains is in very poor condition and would either be repapered over or be stripped and the walls skim coated and painted. The Master Electrician recommended removing the entire ceiling from the downstairs to provide free access for rewiring and possibly running ductwork for HVAC system. OBGC intends to defer a recommendation on this possibility until a determination is made as to what form of HVAC system will be employed. Should the ceilings be torn down, they would be replaced with drywall board and skim coated with plaster.

**Original trim work, doors, baseboards and moldings** - Throughout the house all original embellishments will be retained and repaired. They and all doors will be scraped, sanded and painted with two coats of oil-based paint for lead abatement.

**Windows** - All windows throughout the house will be reglazed as needed and panes will be replaced. They will be repainted using oil-based paint as a lead abatement measure.

#### ***First Floor/OBGC Office Space***

**Entry Hall** - The main, central entry door opens into a wide entry passage. The eight-paneled front door will be reworked to close and lock securely. The six-paneled rear door will either become the entrance to the new addition (if "hidden" behind the house) or will be used for OBGC staff entry. The straight flight, closed stringer stair built against the east interior wall will be preserved and carefully cleaned. The treads and risers will be refinished in a fashion similar to the flooring throughout the house. There is a door behind this main staircase, originally leading to cellar stairs (now missing.) New cellar stairs will be installed to restore access to the basement from the main house.

**Dining Room (Parlor to the right/eastside of the main hall)** - This room will be used for either office space or a conference/meeting room. Other than as addressed heretofore in whole house renovations, no additional renovations are planned for this room.

**Parlor (Left/Westside of main hall)** - OBGC is recommending the removal of the partition wall to the back of the room. This will restore the room to its original size and character and allow more light into a room that will be used for either office space or a conference/meeting room. The fireplace would have the remnants of a wood burning stove opening removed and be restored to reveal the hearth as in all other fireplaces in the house.

**Basement** - The basement will be kept as a dirt floored cellar. If the HVAC system is not placed in the basement, an appropriate dehumidifier will be installed to remove moisture from the area. OBGC plans to leave the large furnace located in the center room in its place. It is inscribed:

NO. 500

LYON CONKLIN & CO., INC.  
LYON HEATER ONE PIPE  
BALTIMORE & WASHINGTON  
1921

*Second Floor/Caretaker Rental Space*

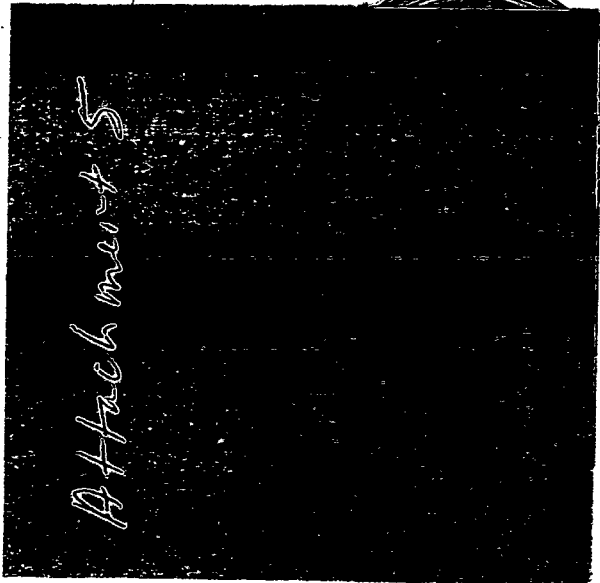
Eastside Bedroom - It is recommended that this room be retained as it is. It is likely that the bathroom built to the back of the room will be converted into a large closet and passageway from the hall into the bathroom/laundry room that will be on the second level of the addition. The late 19th century clawfoot tub will be reused in the main bathroom or in the downstairs bathroom as decoration.

Westside Bedrooms - The wall separating these rooms needs to be reinforced, but will be retained to keep the two room design and additional options for use by the caretaker. The door opening will be retained unless it is determined that it needs to be closed off to provide greater structural support for the wall. The wood stove hole apparent in the front bedroom will be patched over.

Attic - The attic is unfinished space and may be used for the HVAC system. It will be retained in its present state. The rafter and roofing systems that will be impacted by the removal of the rear addition will be replaced and the roofline restored as needed. As recommended in the Home Inspector's report, the rafters near the chimney will be reinforced or repaired.

**SUMMARY**

OBGC's recommendations/plans for the renovation of Falling Green contain minimal changes to the original character and integrity of the historic home. The need for a new structure to house a kitchen and bathrooms/laundry room and serve as access for major systems is apparent. We request Maryland Historic Trust's consideration and concurrence with these recommendations.



*Attachment 5*

OBGC Falling Green  
Manor House





Maryland Department of Planning  
Maryland Historical Trust

Martin O'Malley  
Governor

Anthony G. Brown  
Lt. Governor

Richard Eberhart Hall  
Secretary

Matthew J. Power  
Deputy Secretary

December 20, 2010

Kathy Lyons  
Falling Green Volunteer Project Manager  
Olney Boys and Girls Club  
Post Office Box 2  
Olney, Maryland 20830

Re: Falling Green, Montgomery County – Change/Alteration  
Falling Green -Loan of 2009, Chapter No. 485  
Maryland Historical Trust Preservation Easement

Dear Ms. Lyons:

The Maryland Historical Trust (MHT) is in receipt of your application, containing the requested additional information, dated December 6, 2010, for approval to rehabilitate and construct a proposed addition. The MHT Easement Committee (Committee) reviewed the application at its meeting on December 14, 2010. The MHT Project Review and Compliance (PR&C) division, has also reviewed the project to assess its effects on historic properties, pursuant to the Maryland Historical Trust Act of 1985, as amended (State Finance and Procurement Article § 5A-325 of the Annotated Code of Maryland).

Based upon the review and recommendation of the Committee, I approve of the proposed rehabilitation and construction of the proposed addition conditioned upon the following:

- 1.) Any ground area being disturbed (basement, sidewalk, geothermal area, trench, etc.) must address archeology. A preliminary archeological assessment is needed for all locations.
- 2.) All mortar and stucco must be removed by hand; no mechanical grinders may be used.
- 3.) Design details for the mounting of the transformer boxes at front and side entrances to the main building must be provided, including a description of any drilling through existing walls.
- 4.) The cedar roof must be installed in a historically accurate manner (over shingle lath, not over plywood which is covered with asphalt-impregnated paper) and there should be no ridge cap.
- 5.) The parking lot and walkway material must be tar and chip with blonde stone or pea gravel.
- 6.) All mortar must match the original mortar in color and composition based on an analysis of the original mortar.

This work is consistent with *The Secretary of the Interior's Standards for Rehabilitation, General Rehabilitation Standards 6, 7, and 9.*

As provided by the Bond Bill, the Maryland Historical Trust has examined the proposed project to determine whether, prior to the issuance of the bonds, the grantee or owner of the property must convey a perpetual preservation easement to the Trust. After review of the documentation provided, the Trust has determined that:

- 1) The property is already subject to a perpetual historic preservation easement acceptable to the Trust.

Therefore, the Trust does not require the conveyance of a perpetual preservation easement on this property. PR&C has determined the proposed project will have no adverse effect on historic properties, including historic structures and archeological sites.

Approval is valid for a period of six months from the date of this letter. Should you require additional time to complete the project, make any changes to the scope of work as approved, or have any questions regarding this letter, please contact Amy Skinner, Easement Administrator, at (410) 514-7632 or by email at [askinner@mdp.state.md.us](mailto:askinner@mdp.state.md.us).

By copy of this letter, we are notifying the Board of Public Works (BPW) that the project's historic preservation review and consultation have been completed. If you have questions or require further information regarding the Bond Bill review, please contact Beth Cole at 410-514-7631 or [bcole@mdp.state.md.us](mailto:bcole@mdp.state.md.us). Thank you for providing us this opportunity to comment.

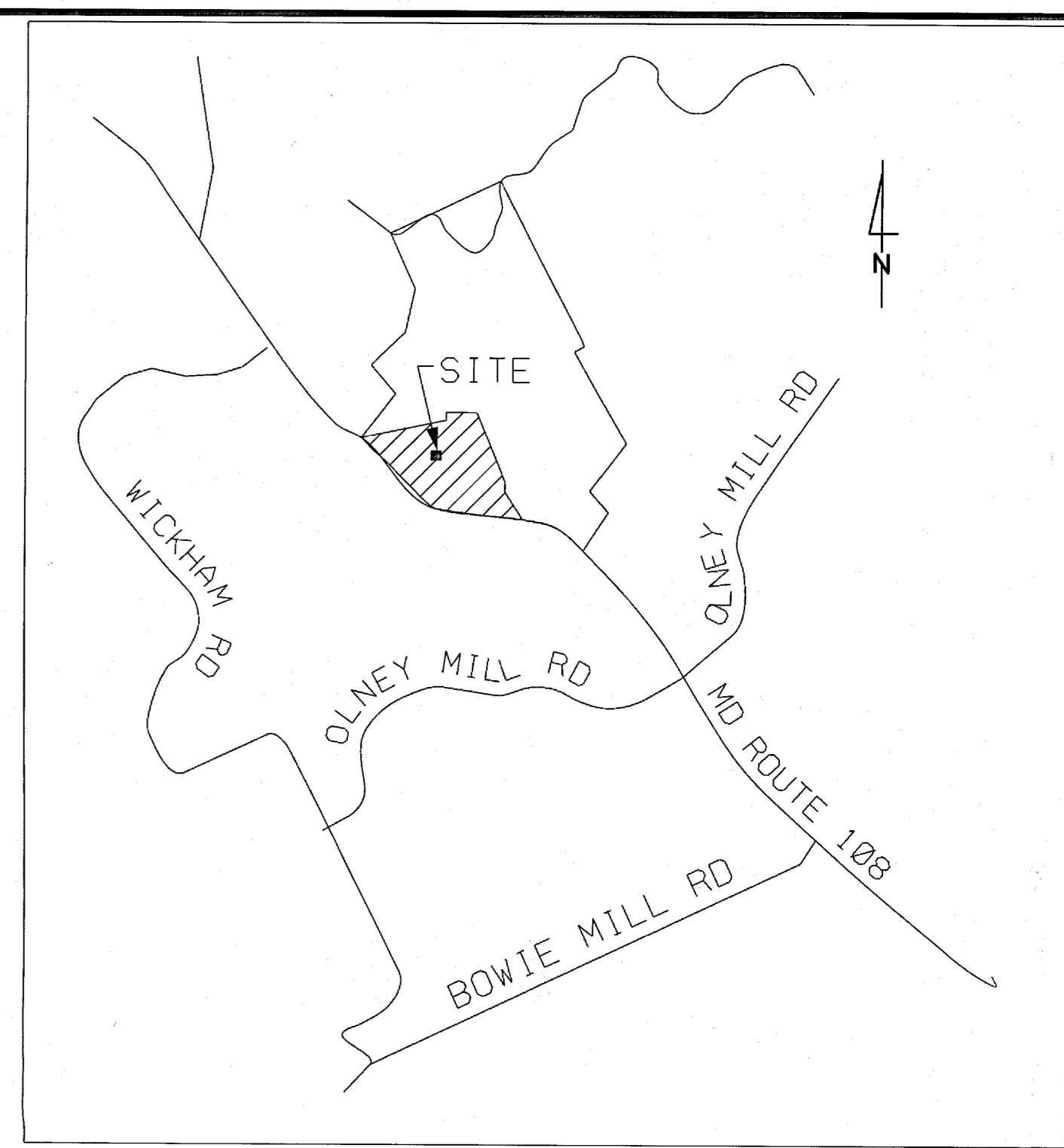
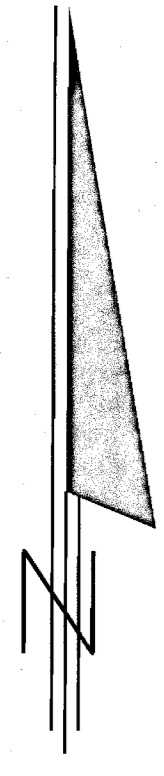
Sincerely,



J. Rodney Little  
Director  
Maryland Historical Trust

JRL/AMS

cc: Beth Cole, MHT  
Sheila McDonald, BPW  
Rehena Retuma, Comptroller  
Fran Vehstedt, DGS



VICINITY MAP  
SCALE 1" = 2000'



GENERAL NOTES:

1. THE SUBJECT PROPERTY IS SHOWN AS LOT 5 BROOKE FARM ON RECORDED PLAT # 19584 THE SITE AREA IS 118.18 AC.
2. ZONING IS ROT, RURAL DENSITY TRANSFER. THE MINIMUM LOT SIZE IS 40,000 SF.
3. BOUNDARY INFORMATION IS FROM RECORDED RECORD PLAT NO. 19584 DATED JAN 1995.
4. TOPOGRAPHIC INFORMATION IS FROM A FIELD SURVEY BY POTOMAC VALLEY SURVEYS IN JUNE 2011. THE CONTOUR INTERVAL IS TWO-FOOT.
5. LOT IS SERVED BY AN ON SITE WATER AND SEWER SYSTEM.
6. THERE IS NO 100 YEAR FLOODPLAIN OR CONSERVATION EASEMENT WITHIN THE HISTORIC PRESERVATION EASEMENT.
7. MINIMUM SETBACKS MAIN BUILDING:  
MINIMUM LOT WIDTH - MEASURED ALONG FRONT BUILDING LINE --- 125'  
MINIMUM LOT WIDTH - MEASURED ALONG FRONT STREET LINE --- 25'  
MINIMUM FROM A STREET --- 50'  
SIDE YARD --- 20' MINIMUM, 40' TOTAL  
REAR YARD --- 35'  
MINIMUM SETBACKS ACCESSORY BUILDING:  
MINIMUM FROM A STREET --- 80'  
SIDE YARD --- 15' MINIMUM.  
REAR YARD --- 10'
8. MAX. LOT COVERAGE - BY BUILDING - 10%.  
MAX. BUILDING HEIGHT - 50'
9. THIS LOT IS SUBJECT TO A DEED OF PRESERVATION EASEMENT AS RECORDED IN LIBER 18949 AT FOLIO 338
10. THIS SITE IS SUBJECT TO APPROVED SPECIAL EXCEPTION S-2385
11. THIS SITE IS LISTED IN THE OLNEY MASTER PLAN AND THE MASTER PLAN FOR HISTORIC PRESERVATION AS SITE NUMBER: 23/57-00 FALLING GREEN.
12. A CERTIFIED ARBORIST WILL EVALUATE THE EXISTING TREES AND PROVIDE MEASURES TO LIMIT IMPACT TO THE TREES SUCH AS ROOT PRUNING.
13. PARKING PROPOSED: 7 STANDARD SPACES @ 8.5' X 18'  
1 VAN ACCESSIBLE HANDICAP SPACE  
@ 8.5' X 18' WITH AN 8' WIDE AISLE.

LEGEND

- LIMITS OF DISTURBANCE
- EX. TREE TO REMAIN
- DRIVEWAY PAVING
- PARKING AND SIDEWALK PAVING

**MISS UTILITY NOTE**  
INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION.  
CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

**OWNER/DEVELOPER**  
OBGC COMMUNITY CENTER  
OLNEY BOYS AND GIRLS CLUB  
C/O DANIEL DIONISIO  
17400 ASHTON GREEN  
SANDY SPRING, MD 20860  
301-259-2065

PRINTED ON  
AUG 15 2011  
PETRA ENGINEERING LLC

**PETRA ENGINEERING LLC**  
5840 BANNEKER ROAD, SUITE 100  
COLUMBIA, MARYLAND 21044  
OFFICE (443) 276-0310  
FAX (443) 276-0319

DATE	JULY 2011		
DESIGNED	DJW		
TECHNICIAN	DJW		
CHECKED	MMF		
NO.	REVISION	BY	DATE
1			

SCALE	1" = 30'
JOB NO.	1046
PLAN LOCATION	P:\1046\ENG\SECCON\1SECCON.SHT
PEN TABLE	X
LEVEL SYMBOLLOGY	

SITE GRADING PLAN

SITE GRADING PLAN  
BROOKE FARM  
**OBGC FALLING GREEN**  
8TH (OLNEY) ELECTION DISTRICT  
MONTGOMERY COUNTY, MARYLAND

SHEET  
1 OF  
2

OFFICE (443) 276-0310  
FAX (443) 276-0319

TECHNICIAN	DJW		
CHECKED	MMF		
NO.	REVISION	BY	DATE
1			

SCALE	1" = 30'
JOB NO.	1046
PLAN LOCATION	P:\1046\ENG\SECCON\1SECCON.SHT
PEN TABLE	X
LEVEL SYMBOLLOGY	

**OBGC FALLING GREEN**  
8TH (OLNEY) ELECTION DISTRICT  
MONTGOMERY COUNTY, MARYLAND

TOTAL SHEETS IN SET 2