



CB 190952

Department of Inspections, Permits, and Licensing
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

Permit No.: B1900 4155

Building Address: 7360 Brauns Bridge Rd.
 City: Fulton State: MD Zip Code: 20771
 Site/Apt. #: _____ SDP/WP/BA #: _____
 Subdivision: _____
 Tax Map: _____ Parcel: _____
 Existing Use: Church dwelling
 Proposed Use: CHURCH
 Estimated Construction Cost: \$ 15,000.00
 Description of Work:
19 lf drain tile
12" wide masonry walls with
3 wall pins
3 Carbon Fibers 1584 sqft
 Occupant/Tenant Name: Change-in-use
 Was tenant space previously occupied? Yes No
 Contact Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Property Owner's Name: MT Zion Parsonage
 Address: 7360 Brauns Bridge Rd
 City: Fulton State: MD Zip Code: 20771
 Phone: 301-423-8244 Fax: _____
 Email: _____
 Applicant's Name & Mailing Address, (If other than stated herein)
 Applicant's Name: JLS (Jamie James)
 Address: 8178 Bethlehem Rd
 City: Monroesville State: LA Zip Code: 70109
 Phone: 703 434 3955 Fax: _____
 Email: james@jeswork.com
 Contractor Company: JLS Construction
 Contact Person: Jamie James
 Address: 8178 Bethlehem Rd
 City: Monroesville State: LA Zip Code: 70109
 License No.: 50237
 Phone: 703 434 3955 Fax: _____
 Email: james@jeswork.com
 Engineer/Architect Company: _____
 Responsible Design Prof.: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Commercial Building Characteristics	Residential Building Characteristics	
Height:	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories:	Depth	Width
Gross area, sq. ft./floor:	1 st floor:	
	2 nd floor:	
Area of construction (sq. ft.):	Basement:	
	<input type="checkbox"/> Finished Basement	
Use group:	<input type="checkbox"/> Unfinished Basement	
	<input type="checkbox"/> Crawl Space	
Construction type:	<input type="checkbox"/> Slab on Grade	
<input type="checkbox"/> Reinforced Concrete	No. of Bedrooms:	
<input type="checkbox"/> Structural Steel	Multi-family Dwelling	
<input type="checkbox"/> Masonry	No. of efficiency units:	
<input type="checkbox"/> Wood Frame	No. of 1 BR units:	
<input type="checkbox"/> State Certified Modular	No. of 2 BR units:	
	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:	
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
Electric:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Water Supply	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Sewage Disposal	
<input checked="" type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Heating System	
<input type="checkbox"/> Electric	<input type="checkbox"/> Oil
<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Propane Gas
<input type="checkbox"/> Other:	
Sprinkler System:	
<input type="checkbox"/> Yes	<input type="checkbox"/> No
Grading Permit Number:	
Building Shell Permit Number:	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: _____
 Print Name: Jamie James
 Email Address: james@jeswork.com
 Date: 12/6/19
 Title/Company: JLS permitting
pick up

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
 PLEASE WRITE NEATLY & LEGIBLY
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
<input checked="" type="checkbox"/> Building Officials		
<input checked="" type="checkbox"/> PSZA (Zoning)		
<input checked="" type="checkbox"/> PSZA (Engineering)		
<input checked="" type="checkbox"/> Health	<u>12/23/19</u>	<u>H. Oswald</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION	
Front:	
Rear:	
Side:	
Side St.:	
All minimum setbacks met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:	
SDP/Red-line approval date:	

Filing Fee	\$
Permit Fee	\$ <u>2000.00</u>
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	# <u>9016</u>

Oswald, Hank

From: Mark Blough <mark.blough@verizon.net>
Sent: Friday, December 20, 2019 2:03 PM
To: Oswald, Hank
Cc: rdcovin@verizon.net
Subject: Re: B19004155_7360 Browns Bridge Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

The parsonage is still setup as a residence; no one is currently residing there, but this remains a possibility.

It is used for a variety of purposes. It is often used for youth meetings for a few hours on Sundays. Also it is used for temporary housing accommodations for church members and guests.

There is no change of use at this time.

Thanks,

Mark Blough
mark.blough@verizon.net

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

From: Oswald, Hank <hoswald@howardcountymd.gov>
To: Mark Blough <mark.blough@verizon.net>
Cc: rdcovin@verizon.net <rdcovin@verizon.net>
Sent: Fri, Dec 20, 2019 11:55 am
Subject: RE: B19004155_7360 Browns Bridge Road

Hi Mr. Blough:

Thanks for the follow-up. I just have a few follow-up questions.

Is the house is still set up as a residence or is it being used for some other purpose? If it's being used for some other purpose, what are those details?

We are just trying to get a current status of the situation since the permit lists change in use.

Thanks in advance,

Hank

From: Mark Blough <mark.blough@verizon.net>
Sent: Friday, December 20, 2019 8:59 AM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Cc: rdcovin@verizon.net; Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: Re: B19004155_7360 Browns Bridge Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

I'm sorry for my slow response, I've been out of town.

JES was contracted to repair/replace the basement concrete block wall that partially collapsed to the previous condition (and hopefully stronger) and nothing more.

There is no change of use.

The water supply is a well and sewage disposal is septic.

Please feel free to contact me on my personal cell 301-633-8244.

Thanks,
Mark Blough
mark.blough@verizon.net

Facilities Manager
Mt. Zion United Methodist Church
12430 Scaggsville Road
Highland, Maryland 20777
301-854-2324

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

From: Oswald, Hank <hoswald@howardcountymd.gov>

To: Mark Blough <mark.blough@verizon.net>

Cc: rdcolvin@verizon.net <rdcolvin@verizon.net>; Williams, Jeffrey <jewilliams@howardcountymd.gov>

Sent: Wed, Dec 18, 2019 2:26 pm

Subject: RE: B19004155_7360 Browns Bridge Road

Hello Mr. Blough:

Attached, please find a copy of the building permit.

Thanks,

Hank

Oswald, Hank

From: Mt Zion Highland Office <office@mtzionhighland.com>
Sent: Wednesday, December 18, 2019 10:56 AM
To: Oswald, Hank
Cc: Mt Zion Highland Office
Subject: Re: B19004155_7360 Browns Bridge Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello,

The building permit is correct. The house no longer is used as a residence for clergy. It is used as a youth center and for Sunday school classrooms on Sunday. Hope this is helpful.

*Dianne Sanna
Administrative Assistant
Mt Zion United Methodist Church
12430 Scaggsville Road
Highland, Maryland 20777*

*phone 301-854-2324
fax 301-854-2326
office@mtzionhighland.com
www.mtzionhighland.com*

On Wed, Dec 18, 2019 at 9:59 AM Oswald, Hank <hoswald@howardcountymd.gov> wrote:

To Whom It May Concern:

I left a message with the facilities manager, Mark. I didn't catch his last name. Anyway, our office is currently reviewing a building permit for foundation work on the parsonage. The building permit seems to indicate a change in use from dwelling to church. Is there a change in use or is the parsonage still being used for members of the clergy?

Thanks in advance for you time.

Hank

Hank Oswald

Licensed Environmental Health Specialist

Howard County Health Department

Bureau of Environmental Health

Well & Septic Program

8930 Stanford Boulevard

Columbia, MD 21045

410.313.1786 (Office)

hoswald@howardcountymd.gov



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Oswald, Hank

From: Williams, Jeffrey
Sent: Monday, December 16, 2019 8:21 AM
To: Oswald, Hank
Subject: RE: B19004155_7360 Browns Bridge Road

Can you reach out to the church (maybe an owner contact on the permit application?) and ask them if the building is still the residential parsonage. It may be that DILP just made them call it commercial because its on the same parcel as the church. If the church is still using it as a residence, we are good. If they are using it for something else, just get them to send you what they are using it for and how frequently and we can review it. We'll probably approve the permit no matter what, but it would be good to have an updated useage.

From: Oswald, Hank
Sent: Monday, December 16, 2019 6:50 AM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: FW: B19004155_7360 Browns Bridge Road

Hi Jeff:

We spoke about this BP regarding the repair to the parsonage foundation on Friday. I received a response from the contractor. See below. Do we need to explore this further with the church before BP approval or does this response suffice? Please advise.

Thanks,

Hank

From: Jim Leeuwrik <jleeuwrik@jeswork.com>
Sent: Friday, December 13, 2019 1:38 PM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Cc: Jamie James <jjames@jeswork.com>
Subject: B19004155_7360 Browns Bridge Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Mr. Oswald:

We are a foundation repair specialty contractor with in-house engineering and have simply been engaged by the Church to repair deterioration/distress to the existing masonry foundation wall of this one structure, including installation of some underslab subsoil drainage, much the same as one would engage a plumber, electrician, roofer, or siding installer to make repairs to those types of existing systems.

It is simply our task to restore the existing masonry wall to its original sound structural condition including proper subsoil drainage. We have no other scope of work than this, and have no involvement in any alterations, or improvements to this, or any of the other buildings. We are not Architects, General Contractors, or Master Planners, and as such would have no involvement in any future planning for this building, or future master planning for the overall campus.

The Church advises us that this building is a "parsonage", which we interpreted to mean residential use by Church staff, and submitted the permit application for the repair work, accordingly. At the Permit Intake Desk, County staff elevated the permit to a commercial status and we complied, but in doing so, the work we were engaged to do remains the same.

Please advise; hopefully, this is sufficient to resolve your questions. If not, we will need to refer your questions to the building owners, as this sort of project review is beyond our area of expertise.

Jim

M. James Leeuwrik, PE
Director of Engineering & QC, Manassas Branch
O: 703.434.3955 | C: 703.963.5621

Groundworks®



From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Friday, December 13, 2019 10:30 AM
To: Jamie James <jjames@jeswork.com>
Subject: B19004155_7360 Browns Bridge Road

Hello Jamie James:

Good morning. I have a couple of follow-up questions regarding the Mt. Zion Parsonage foundation work (B19004155).

1. Is DILP requiring the change-in-use?
2. What's the existing use of the entire property?
 - parsonage building use
 - # pews/seats in the church
 - # of students in school
 - does the kitchen prepare food or is it brought in?
3. What are the proposed changes to the property outside of the foundation work?

Thanks in advance,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045



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12/16/19 L V/M w/ Mark facilitates

manager.

Oswald, Hank

From: Jim Leeuwrik <jleeuwrik@jeswork.com>
Sent: Friday, December 13, 2019 1:38 PM
To: Oswald, Hank
Cc: Jamie James
Subject: B19004155_7360 Browns Bridge Road

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Mr. Oswald:

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Please advise; hopefully, this is sufficient to resolve your questions. If not, we will need to refer your questions to the building owners, as this sort of project review is beyond our area of expertise.

Jim

M. James Leeuwrik, PE
Director of Engineering & QC, Manassas Branch
O: 703.434.3955 | C: 703.963.5621

Groundworks®



From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Friday, December 13, 2019 10:30 AM

To: Jamie James <jjames@jeswork.com>
Subject: B19004155_7360 Browns Bridge Road

Hello Jamie James:

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 - parsonage building use
 - # pews/seats in the church
 - # of students in school
 - does the kitchen prepare food or is it brought in?
3. What are the proposed changes to the property outside of the foundation work?

Thanks in advance,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov



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Oswald, Hank

From: Oswald, Hank
Sent: Friday, December 13, 2019 10:30 AM
To: JJAMES@JESWORK.COM
Subject: B19004155_7360 Browns Bridge Road

Hello Jamie James:

Good morning. I have a couple of follow-up questions regarding the Mt. Zion Parsonage foundation work (B19004155).

- 1.) Is DILP requiring the change-in-use?
- 2.) What's the existing use of the entire property?
 - parsonage building use
 - # pews/seats in the church
 - # of students in school
 - does the kitchen prepare food or is it brought in?
- 3.) What are the proposed changes to the property outside of the foundation work?

Thanks in advance,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov



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Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

DILP 2019 DEC 9 4:01:26
Date Received: _____

Permit No.: B19004154

CB190452

Building Address: 7360 Browns Bridge Rd
City: Fulton State: MD Zip Code: 20707
Suite/Apt. #: _____ SDP/WP/BA #: _____
Subdivision: _____
Lot: _____ Tax Map: _____ Parcel: _____

Existing Use: Church
Proposed Use: Church
Estimated Construction Cost: \$ 15,000.00

Description of Work:
19 lf drain tile
12" wide masonry walls with
4 wall pins
3 Carbon fibers 1584 sqft

Occupant/Tenant Name: _____
Was tenant space previously occupied? Yes No
Contact Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____

Property Owner's Name: MT Zion Parsonage
Address: 7360 Browns Bridge Rd
City: Fulton State: MD Zip Code: 20707
Phone: 501-433-8244 Fax: _____
Email: _____

Applicant's Name & Mailing Address, (if other than stated herein)
Applicant's Name: J.J. James (Jamie James)
Address: 8128 Bethelheim Rd
City: Monroesville State: LA Zip Code: 70109
Phone: 703-424-3995 Fax: _____
Email: jamesj@jeswork.com

Contractor Company: JES construction
Contact Person: Jamie James
Address: 8128 Bethelheim Rd
City: Monroesville State: LA Zip Code: 70109
License No.: 600637
Phone: 703-424-3995 Fax: _____
Email: jamesj@jeswork.com

Engineer/Architect Company: _____
Responsible Design Prof.: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____

Commercial Building Characteristics	Residential Building Characteristics	
Height:	<input checked="" type="checkbox"/> SF Dwelling	<input type="checkbox"/> SF Townhouse
No. of stories:	Depth Width	
Gross area, sq. ft./floor:	1 st floor:	
	2 nd floor:	
Area of construction (sq. ft.):	Basement:	
	<input checked="" type="checkbox"/> Finished Basement	
Use group:	<input type="checkbox"/> Unfinished Basement	
	<input type="checkbox"/> Crawl Space	
Construction type:		
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Slab on Grade	
<input type="checkbox"/> Structural Steel	Multi-family Dwelling	
<input type="checkbox"/> Masonry	No. of efficiency units:	
<input type="checkbox"/> Wood Frame	No. of 1 BR units:	
<input type="checkbox"/> State Certified Modular	No. of 2 BR units:	
	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:	
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
Electric:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Water Supply	
<input checked="" type="checkbox"/> Public	
<input type="checkbox"/> Private	
Sewage Disposal	
<input checked="" type="checkbox"/> Public	
<input type="checkbox"/> Private	
Heating System	
<input type="checkbox"/> Electric	<input type="checkbox"/> Oil
<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Propane Gas
<input type="checkbox"/> Other:	
Sprinkler System:	
<input type="checkbox"/> Yes	<input type="checkbox"/> No
Grading Permit Number:	
Building Shell Permit Number:	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: _____ Print Name: Jamie James
Email Address: jamesj@jeswork.com Date: 12/6/19
Title/Company: JES permitting

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

PLEASE WRITE NEATLY & LEGIBLY
FOR OFFICE USE ONLY

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health		

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION	
Front:	
Rear:	
Side:	
Side St.:	
All minimum setbacks met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:	
SDP/Red-line approval date:	

Filing Fee	\$ <u>200.00</u>
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	# <u>67016</u>

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA



Engineered Solutions • Guaranteed Results
Serving the Entire Mid-Atlantic Region

Foundation/Structural Repairs • Interior/Exterior Waterproofing • Crawlspace Moisture Control

December 6, 2019

Howard County
3430 Court House Drive
Ellicott City, MD 21043

Reference: Engineering Report for Building Permit
Mt. Zion Parsonage Residence (Blough) #108905
7360 Browns Bridge Road,
Fulton, MD 20777

To Whom It May Concern:

JES Construction, LLC (JES) is providing commentary for the installation of an exterior water management system at the above referenced property. For this project, JES will install 19 LF of Drain Tile along the perimeter of the basement as shown on the attached drawing. The Drain Tile will channel water to an existing pump. The discharge line is existing, is not visible by the public eye and the discharged water has not been a public nuisance.

Please feel free to call me should you have any questions or require additional information at 703-434-3955.

Respectfully,

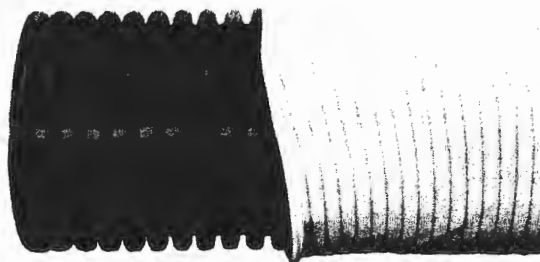
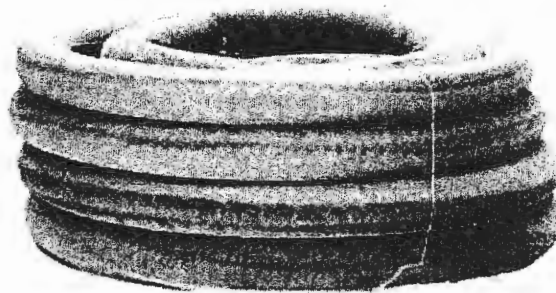
Jamie James

Jamie James
Permit Coordinator
JES Construction, LLC.
8122 Bethlehem Rd.
Manassas, VA 20109
703-434-3955

Hampton Roads	Northern VA Area	Richmond Area
1741 Corporate Landing Pkwy Virginia Beach, VA 23454	8122 Bethlehem Rd. Manassas, VA 20109	2410 Southland Drive Chester, VA 23831



4 INCH DIA CORRUGATED DRAIN



- Installed below grade
- Fabricated from durable, non-corroding materials with a filter fabric ("sock") to prevent fines from the surrounding soils from clogging the pipe
- Allows collected water to be channeled below grade to suitable outfall locations.
- Sections are joined end to end and secured together with section connectors.



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Foundation/Structural Repairs • Interior/Exterior Waterproofing • Crawlspace Moisture Control

November 22, 2019

Howard County
3430 Court House Drive
Ellicott City, MD 21043

**Reference: Engineering Report for Building Permit
Mt. Zion Parsonage Residence (Blough) #108905
7360 Browns Bridge Road,
Fulton, MD 20777**

To Whom It May Concern,

JES Construction, LLC (JES) is providing commentary for the installation of masonry walls and reinforcing steel. For this project, JES will install nineteen (19) linear feet of 12" wide masonry walls, with #4 wall pins spaced at 24" on center, located at the above referenced property. The existing residence consists of a two story, wood frame, and single family home with a CMU basement. The commentary provided here in is intended to provide guidance during the planning and installation phase of the project.

Please feel free to call me should you have any questions or require additional information at 703-434-3955.

The commentary provided herein is intended to provide guidance during the installation phase of the project. If you have any questions or require additional information, do not hesitate to contact me at 703-434-3955.

Respectfully,

M. James Leeuwrik, PE
Director of Engineering & QC
JES Companies - Manassas Branch
703.434.3955



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. 52286, Expiration Date: Feb. 8, 2020

Hampton Roads
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Virginia Beach, VA 23454
877-537-9675

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December 5, 2019

Howard County
3430 Court House Drive
Ellicott City, MD 21043

**Reference: Engineering Report for Building Permit
Mt. Zion Parsonage Residence (Blough) #108905
7360 Browns Bridge Road,
Fulton, MD 20777**

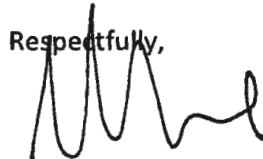
To Whom It May Concern,

As part of the permit application for structural repairs, JES Construction Inc. (JES) is providing engineering commentary relative to the installation of the Carbon Fiber for the above referenced project. The existing residence consists of a single story, wood framed single family residence with a CMU basement. At this time, JES proposes installing three (3) Carbon Fibers to stabilize the lateral movement on the basement wall. The basement wall is approximately 8' high and is supporting approximately 7.5' of backfill. The purpose of the Carbon Fiber will be to stabilize the wall and prevent further inward bowing or other related distress.

For this project, the Carbon Fiber will be installed a maximum tributary span of 3' apart (center-to-center spacing) and approximately 2' (+/- 6") from the corners. See attached sketch for layout. The Carbon Fiber consist of a high strength fiber-reinforced polymer (FRP) composite material used to reinforce concrete block and concrete foundation walls. Technical specifications associated with Carbon Fiber systems are attached.

The commentary provided herein is intended to provide guidance during the planning and installation phases of the project. If you have any questions or require additional information, do not hesitate to contact me at 703-434-3955.

Respectfully,


M. James Leeuwrik, PE
Director of Engineering & QC
JES Companies ~ Manassas Branch
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Chester, VA 23831
800-570-1525

MT. ZION PARSONAGE RESIDENCE #108905
 14405 OAKVALE STREET
 ROCKVILLE, MD 20853

Rhino Product

Width (in)	Th'kness (in)
6	0.0248
F (tens) KSI	133.6



Bowed Wall Repair Design Calculation Sheet

Soil Density	110 pcf
Earth Pressure Coefficient	0.5455
Backfill Ht.	7.5 ft
Wall Height	8 ft
Wall Construction Type [CMU / CIP]	CMU
CMU / CIP Concrete Wall Thickness	11 5/8 in
Trial Spacing of FRP Strap (S)	3.00 ft
Bottom Reaction to Resultant	2.50 L1
Top Reaction to Resultant	5.50 L2
Design Equivalent Lateral Earth Pressure	60.01 pcf
Lateral Earth Pressure at Bottom of Wall	450.04 psf
Resultant Force on Wall	1687.64 lb/ft
Reaction at the Top	527.39 lb
Reaction at the Bottom	1160.25 lb
Service Load Moment (Per LF of wall)	1737.79 ft-lb
Factored Design Moment (REQUIRED)	8341.38 ft-lb
Ultimate Moment Capacity (AVAILABLE)	15074.56 ft-lb
FINAL FRP Strap Design Spacing	3.00

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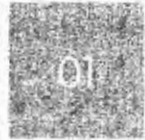


VERSION 6/25/18

TECHNICAL DATA SHEET

Rhino 400 gsm Unidirectional Carbon Fiber | Revision Date 5/01/2017

1633 Thornwood Dr.
Heath, OH 43056 USA
P: +1 888 684 3889
E: info@rhinocarbonfiber.com



01: PRODUCT IDENTIFICATION

RHINO PRODUCTS USA
1633 THORNWOOD DRIVE
HEATH, OH 43056 USA

Product Name: Rhino Unidirectional Bowed Wall Strap

02: DESCRIPTION

Rhino 400 gsm Unidirectional Carbon Fiber is a high strength, unidirectional carbon fiber fabric equipped with weft fibers that keep the fabric stable. The material is field laminated using Rhino Epoxy Adhesive to form a carbon fiber reinforced polymer (CFRP) used to strengthen structural concrete elements.

03: WHERE TO USE:

- Increase load capacity of structural elements (Beams, Slabs, Columns, Walls, Etc.)
- Restore structural integrity of damaged or deteriorated structural elements
- Repair for damaged or missing reinforcing steel/post tensioning
- Improved blast resistance of concrete, masonry, or stone in mining operations
- Additional Reinforcement to repair/withstand seismic events

04: ADVANTAGES

- Used for shear, confinement or flexural strengthening
- Non-corrosive
- Flexible, can be wrapped around complex geometries
- Alkali Resistant
- High Strength
- Low aesthetic impact
- Light Weight
- Economical

05: TYPICAL DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Storage Conditions	Store dry at 40° - 95°F (4° - 35°C)
Shelf Life	2 years from date of production
Color	Black
Primary Fiber Direction	Unidirectional
Areal Weight	400g/m ² (0.124 lbs/ft ²)

FIBER PROPERTIES		
Property	English	Metric
Tensile Strength	710 ksi	4,900 MPa
Tensile Modulus	36.3 Msi	250 GPa
Elongation	2%	2%
Density	.065 lbs/ft ³	1.79 g/cm ³
Nominal Thickness	.013 in	0.33 mm

COMPOSITE PROPERTIES			
Composite Thickness	0.0248 inch	Ultimate Tensile Strength	133,630 psi per ASTM D3039



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TECHNICAL DATA SHEET

Rhino 400 gsm Unidirectional Carbon Fiber | Revision Date 2/01/2017

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06: HOW TO USE: SURFACE PREP

Surface must be clean, sound, and dry. Remove a light layer of concrete from the surface to allow the epoxy to penetrate the substrate. Typical methods include shot blasting or grinding to achieve this open textured surface. Consult the epoxy adhesive data sheets for additional information on surface preparation.

Existing uneven surfaces must be filled with an appropriate repair mortar/hydraulic cement. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ASTM D-4541) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure.

Round all corners to 1/2" radius in certain "contact critical" applications and at the engineers discretion, a thorough cleaning of the substrate using low pressure sand or water blasting may be sufficient.

07: APPLICATION

Apply a prime coat of epoxy to the substrate, work the carbon fiber into the epoxy, then add final layer of epoxy to ensure the material is properly saturated. The fabric may also be pre saturated using accepted industry techniques. In either case, installation of this system should be performed only by a trained contractor. In fiber direction, overlapping of the fabric must be at least 6in or as per the project specifications. Overlapping sections of additional layers should be distributed in location free of other laps.

08: TOOLING & FINISHING

Fabric can be cut to appropriate lengths by using sharp heavy duty shears. Dull or worn cutting implements can damage, weaken or fray the fabric and their use should be avoided.

09: LIMITATIONS

- Design calculations must be made and certified by an independent licensed professional engineer.
- System is a vapor barrier. Concrete should not be fully encapsulated in areas of freeze/thaw.



RHINO
CARBON FIBER REINFORCEMENT PRODUCTS

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TECHNICAL DATA SHEET

Rhino Epoxy Adhesive | Revision Date 11/01/2016

1633 Thornwood Dr.
Heath, OH 43056 USA
P: +1 888 684 3889
E: info@rhinocarbonfiber.com



1. DESCRIPTION

Rhino Epoxy is a two-component, 100% solids, moisture-tolerant, medium viscosity, high strength, multi-purpose liquid epoxy adhesive. It meets the current ASTM C881 and AASHTO M235, Type I, II, IV & V Grade 2, Classes B & C specifications.

2. WHERE TO USE

Use to bond freshly mixed concrete to hardened concrete. Fill voids and cracks in concrete, masonry. Use as a binder in epoxy mortar. Can be used as an anchoring adhesive.

3. ADVANTAGES

- May be used on damp or dry surfaces
- High strength, structural adhesive
- Made in America
- Convenient 1:1 mix ratio by volume
- Rapid cure return to traffic formula
- Agency independent testing lab certification

4. SHELF LIFE / STORAGE

24 month shelf life when stored in unopened containers in dry conditions and stored at 40°F-95°F (4°C-35°C)

5. TECHNICAL DATA

Rhino Epoxy Adhesive Technical Data	
Storage Conditions:	40°F - 95°F (5°C - 35°C)
Condition material to:	65°F - 85°F (18°C - 29°C) before using.
Mix Ratio	1:1 by volume
Viscosity	2,000 cps @77°F
Gel Time (60 g mass)	25 minutes
Tack Free Time (73°F or 23°C)	3 to 5 hours
Tensile Properties (ASTM D638), 7 day cure	
Tensile Strength:	2,800 psi (19.3 MPa)
Tensile Elongation:	40%
Bond Strength (ASTM C882)	
2 day cure:	2,000 psi (13.8 MPa)
14 day cure:	2,800 psi (19.3 MPa)
Compressive Properties (ASTM D695), 7 day cure	
Compressive Strength:	5,000 psi (34.5 MPa)
Compressive Modulus:	110,000 psi (760 MPa)
Compressive Strength (ASTM C579)	
3 hour cure:	1,500 psi (10.3 MPa)
24 hour cure:	5,000 psi (34.5 MPa)
Bond Strength (ASTM C1583/ACI 503R)	300 psi (2.0 MPa)
Flexural Strength (ASTM D790)	3,000 psi (20.9 MPa)
Shrinkage on Cure (ASTM D2566)	0.2%
Thermal Compatibility (ASTM C884)	Pass
Heat Deflection Temperature (ASTM D648)	120°F (49°C)
Water Absorption (ASTM D570)	0.2% (24 hr)
Chloride Ion Permeability (AASHTO T277)	0.0 coulomb

*NOTE: Epoxy cure is affected by temperature. Low temperatures will increase cure time, higher temperatures with decrease cure time.

6. MINIMUM CURING TIME

TEMPURATURE	50°	60°	70°	80°	90°	100°
MINIMUM CURE TIME	24 HRS	12 HRS	8 HRS	6 HRS	4 HRS	2 HRS
CURE TIME	48 HRS	36 HRS	24 HRS	24 HRS	24 HRS	12 HRS



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TECHNICAL DATA SHEET

Rhino Epoxy Adhesive | Revision Date 11/01/2016

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Heath, OH 43056 USA
P: +1 888 684 3889
E: info@rhinocarbonfiber.com

02

7. APPLICATION TEMPERATURE

Substrate and ambient air temperature between 40°F and 100°F (4°C and 38°C)

8. CONDITION PRODUCT

When the work environment or substrate falls below 70 °F (21 °C) condition the product to 70-75 °F (21 °C - 24 °C) prior to use. Temperature will affect the workability and cure time of epoxy.

9. COVERAGE

First Layer: 40 sq ft / gallon (1.0 m² /L); Second Layer: 20 sq ft / gallon (0.5 m² /L)

10. LIMITATIONS & WARNINGS

Minimum substrate temperature is 50°F (10°C). Do not thin. Solvents will prevent proper cure. Use oven-dried aggregate. Material is a vapor barrier after cure.

11. MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

For complete Installation Instructions using Rhino Epoxy Adhesive see Rhino Carbon Fiber Wall Supports on our Website, www.rhinocarbonfiber.com or call Rhino Products for more information at 1-888-684-3889.

12. SURFACE PREPARATION

Rhino Epoxy Adhesive is an ideal bonding agent to multiple surfaces including concrete, brick, stone, block, and metal. Surfaces must be clean and profiled or textured. New concrete must be a minimum of 28 days old. All dirt, oil, debris, wax, grease or dust must be removed. Prepare the surface mechanically using a scarifier, sandblast, shotblast, bushhammer or other equipment that will give the surface profile needed for the application. A roughened surface is imperative to good adhesion.

13. CLEAN UP

Clean tools and equipment with Tough Wipes by Rhino, a biodegradable formula that removes epoxy. Do not allow epoxy to harden on equipment.

14. SAFETY

Please refer to the MSDS for Rhino Epoxy Adhesive published on our Website, www.rhinocarbonfiber.com or call Rhino Products for more information at 1-888-684-3889.

15. WARRANTY

Rhino Products warrants to the Buyer that this product is in good quality and conforms to the manufacturer's specifications in force on the date of manufacture and when used in accordance with the Installation Instructions and when stored as directed in the technical literature.

Manufacturer cannot warrant or guarantee any particular method of use, performance or application under any particular condition and Buyer is responsible for determining the suitability of intended purpose and assumes all risks therein. RCF shall not be liable for any injury, loss, cost of labor or consequential damages either directly, indirectly or incidentally, arising out of the use or misuse of any product sold by RCF or another distributor. If the product is proven to be in nonconformance, the Buyers sole remedy shall be a refund of the purchase price or replacement of product.



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RHINO BOWED WALL INSTRUCTIONS

U.S. Patent No. 8,584,431

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WHAT COMES IN THE BOWED WALL REPAIR KIT?



KIT INCLUDES (TOOLS MAY VARY DEPENDING ON PROJECT)

- (3) 5.5" wide Carbon Fiber Straps (length is determined by kit)
- (2) Tubes of Rhino Epoxy Adhesive
- (2) Static epoxy nozzles
- (3) Sill place brackets
- (6) Bolts and washers
- Gloves and Instructions

PRODUCTS COMMONLY USED WITH BOWED WALL REPAIR



Rhino Dual Epoxy Gun
300/300 ml or 300/150 ml gun



Rhino Fast Curing Epoxy
Used to install with staples

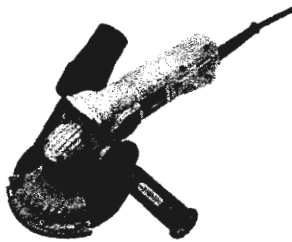


Tough Wipes by Rhino
Removes Epoxy!

RECOMMENDED POWER TOOLS

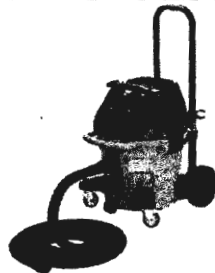
(TOOLS MAY VARY DEPENDING ON PROJECT)

5-Inch Surface Grinding Dust Shroud Kit



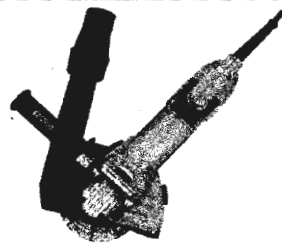
Use for grinding foundation wall
**USE DIAMOND CUP WHEEL

10-Gallon Dust Extractor



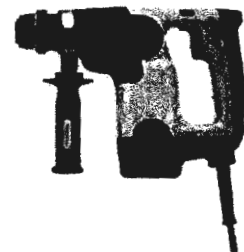
Collects dust while attached to
grinder and shroud tools

Cutting and Tuck Pointing Dust Shroud Tool



Use to tuckpoint the wall
**USE DIAMOND TIP BLADE

Hammer Drill



Use for concrete removal
**USE CHISEL OR SPADE TIP ATTACHMENT

YOU WILL ALSO NEED...

- Safety Goggles
- Respirator Mask
- Epoxy Gun
- Coveralls
- Drop cloth/ plastic
- Scissors
- Marker
- Hard Hat
- Putty Knife
- Measuring Tape
- Power Drill (1/4" Bit)

SAFETY WARNINGS

Please read and follow safety procedures for all tools and wear proper safety equipment during installation

While using power tools follow all EPA/OSHA guidelines for lead paint removal and respiratory protection. For more information visit www.epa.gov or www.osha.gov



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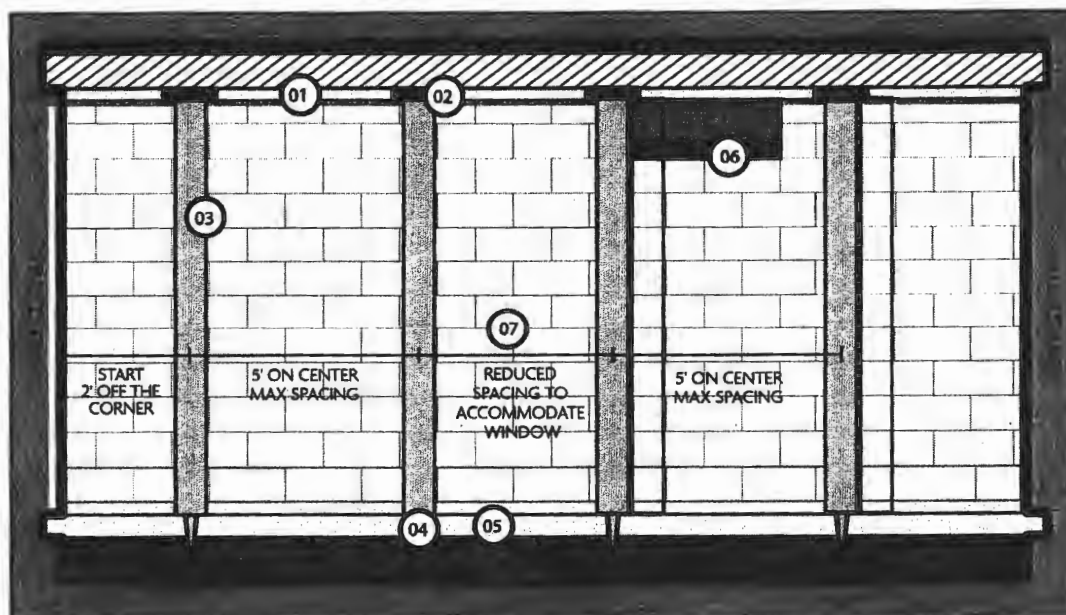
PLEASE READ ALL DIRECTIONS CAREFULLY & WEAR SAFETY GOGGLES DURING INSTALLATION



01 PREP AND GRIND

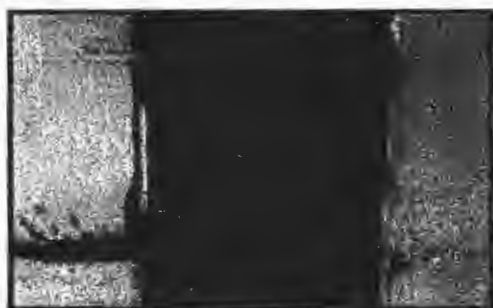
- Lay plastic or drop cloth around work surface
 - Measure and mark locations of the straps
 - Grind the vertical length of the foundation wall where carbon fiber strap will be installed. Remove paint, coatings and glossy surfaces to achieve a "Bare Foundation" (Even uncoated blocks need to be ground to exposes aggregates.)
 - Round top corner of block where strap will be located
 - Carbon Fiber strap should span from sill plate to floor
 - Remove caulk/latex/loose mortar/etc. from mortar joints
 - Use opposing mortar joints as a guide
- *READ AND FOLLOW ALL EPA AND OSHA SAFETY PRACTICES

Tools: Marker, measuring tape, plastic or dropcloth, grinder



- 01: Sill Plate
- 02: Sill Plate Bracket
- 03: Carbon Fiber Strap
- 04: Carbon Fiber Pin
- 05: Concrete Floor
- 06: Obstacle
- 07: Adjust spacing as necessary to avoid obstacles

Max spacing is 2' off corners and 5' on center across the wall.



02 REPAIR CRACKS

- Repair all cracks by using hydraulic cement or Rhino Fast Curing Epoxy before installing carbon fiber
- Wall must be completely bare and clean with cracks/deep mortar joints filled before applying carbon fiber
- Check our Rhino tuck point instruction video on YouTube for reference

Tools: Hammer drill, hydraulic cement or Rhino Fast Curing Epoxy



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03 SILL PLATE AND FOOTING PREP

- Pre-mark drill holes with pencil or pen for the Sill Plate Bracket
- Make sure sill plate bracket is level with top of foundation wall
 - *An uneven Bracket could cause splitting and damage to the sill plate
- Pre-drill holes using a power drill with a 1/4" drill bit
- Pre-drilled holes will ensure a secure connection between the carbon fiber, sill plate bracket and the sill plate

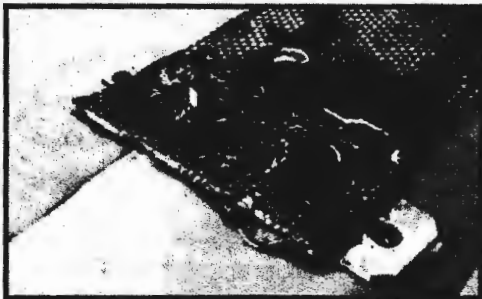
Tools: Pencil/pen, power drill with 1/4" Bit



04 DRILL FOOTING

- Using a hammer drill, pre-drill a 3/4" hole at the center of the prepped carbon fiber location
- Drill hole as close to vertical as possible right against the wall.
- If the floor is sound, pinning to the floor is sufficient.
- If the floor is being removed or is deteriorated, remove floor and pin to the footer.

Tools: Hammer drill,



05 ATTACH SILL PLATE

- TIP: Lay carbon fiber on piece of cardboard
- Apply epoxy to the top 8" of the carbon fiber, spread epoxy so that strap is saturated
 - Lay bracket flush with top of carbon fiber
 - Roll bracket and carbon fiber twice to ensure the wrap is tight

Tools: Tape measure, latex gloves and epoxy gun



06 MOUNT

- Mount saturated carbon fiber covered Sill Plate Bracket
- Check level of Sill Plate Bracket to ensure a secure fit to sill plate
- Fasten Sill Plate Bracket to the sill plate using (2) 3/8" x 2" lag bolts

Tools: Drill, level, lag bolts and flat washers



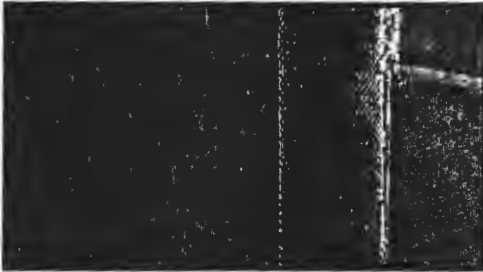
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07 EPOXY

- *Tip: roll carbon fiber and sit on sill plate so that it is out of the way
- Apply epoxy to the wall per the diagram below
- Once a sufficient coating of epoxy is applied to foundation wall, lay the carbon fiber strap over the applied epoxy making sure that the carbon fiber strap is straight and tight
- Apply epoxy on top of the carbon fiber and lightly spread the epoxy with a putty knife

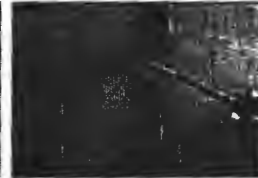
Tools: Putty knife, gloves, epoxy adhesive, epoxy gun, static nozzle



01: Lift carbon fiber strap & apply epoxy to wall



02: Spread epoxy on foundation wall



03: Apply carbon fiber strap & coat with epoxy



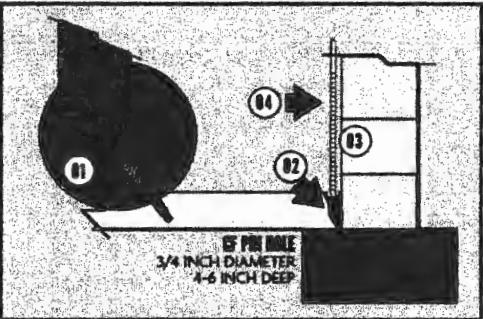
08 ANCHOR

- Secure bottom of the carbon fiber strap as per the diagram below
- If there is extra carbon fiber, cut the excess at this time. Leaving bottom 8" beyond the bottom of the wall
- Fill the hole with epoxy and saturate the remainder of the strap
- Fold bottom of strap to make a point (triangle tip) then twist to create the pin
- Insert pin into hole and top off with epoxy

FINAL STEP

- Use light strokes with putty knife to spread epoxy evenly, focusing on the edges for a clean and secure installation
- Make sure the strap is tightly adhered to the wall all the way to the floor

Tools: Gloves, epoxy gun, putty knife

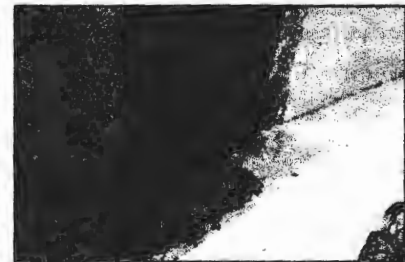


- 01: Fold and twist end of carbon fiber strap to make pin
- 02: Fill hole with epoxy and place carbon fiber twisted pin inside hole
- 03: After pin is inserted, make sure strap is tightly adhered to wall
- 04: Top off hole with epoxy

** When waterproofing, or if floor is deteriorated, the strap can be pinned to the footer.



Apply epoxy to hole

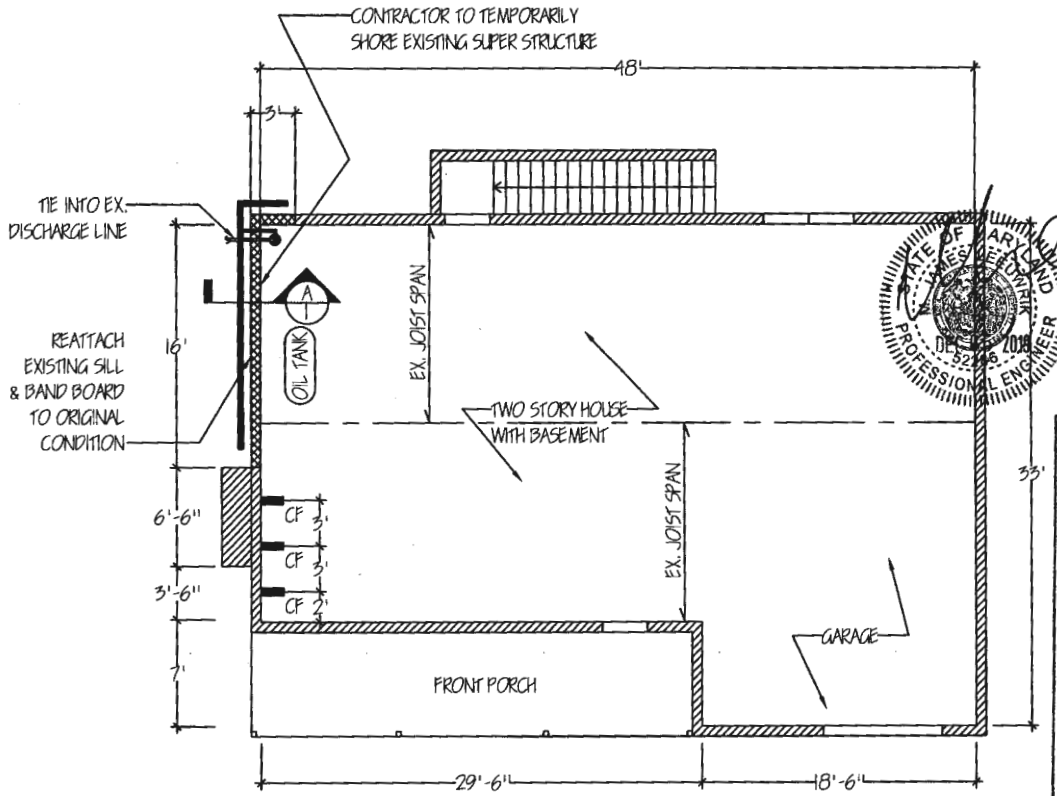
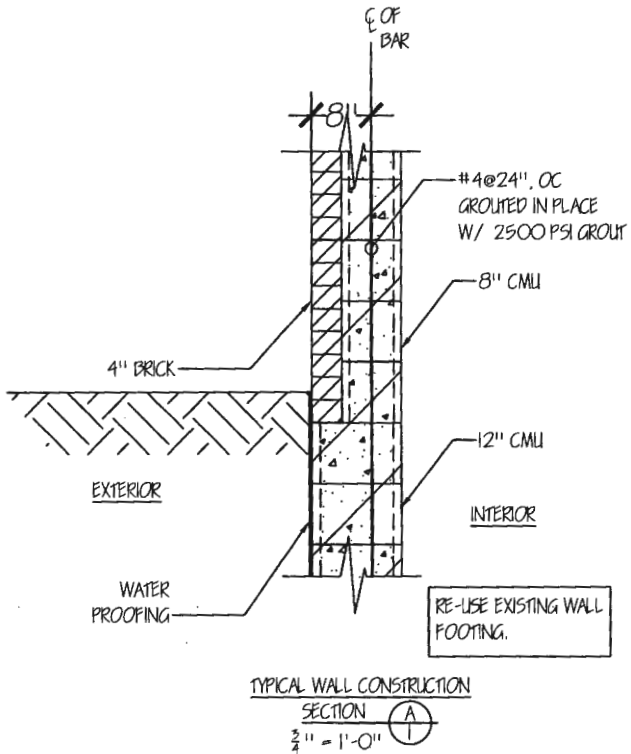


Twist carbon fiber and insert into hole



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- 12" CMU WALL (REBUILD) W/ #4 WALL PINS @ 24" SPACING OC
- CARBON FIBERS
- EXTERIOR DRAIN TILE 19 LF ±
- EX. SUMP PUMP, TO REMAIN

NOTES:
 FOUNDATION TYPE: CMU
 WALL THICKNESS: 12"
 WALL HEIGHT: 8"
 BACK FILL HEIGHT: 7'-6"
 BUILD YEAR: N/A

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. 52286. Expiration Date: Feb. 8, 2020

		DATE	11/20/19	REVISION	<h2 style="margin: 0;">FOUNDATION STABILIZATION</h2> <p style="margin: 0;">ADDRESS: 7360 BROWNS BRIDGE RD FULTON, MD 20777</p> <p style="margin: 0;">CLIENT: MT. ZION PARSONAGE (BLOUGH) RESIDENCE, CUSTOMER #108905</p>	
OF	SCALE	$\frac{1}{8}'' = 1'$	REV. NO.	DATE		
	DRAWN BY	JBG	-	-		
	CHECKED BY	JIM L.	-	-		



NoVA / DC / MD
 8122 Bethlehem Road
 Manassas, VA 20109

On Call Report 12/09/2019 - 12/15/2019

Howard County Health Department - Joseph Cabahug LEHS 001997

12/09/2019: All Quiet

12/10/2019: All Quiet

12/11/2019: Cadaver Pick Up - No Bite

12/12/2019: All Quiet

12/13/2019: All Quiet

12/14/2019: All Quiet

12/15/2019: All Quiet