

Record Detail * (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Residential/Misc/Pool Spa	B22001708	05/03/2022
Description of Work		
SFTH / INSTALL 8' X 8' HOT TUB ON CONCRETE		

[check spelling](#)

Address * (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type
12401	BENSON BRANCH	RD
Unit Type	Unit #	X Coordinate
--Select--		-76.94579
		Y Coordinate
		39.2755
City	State	Zip Code
ELLICOTT CITY	MD	21042
	Primary	
	Yes	

Parcel * (This section is required.)

Search Reset Clear Get Address & Owner

GIS ID *	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Plan Area
898480	520	5.77	280700	1114200	833500	RURAL
Legal Description						
IMPSLOT 5 5.777 AR S 12[]12401 BENSON BRANCH RD[]WOODMARK						

[check spelling](#)

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
	5	603000	5				
Plan Area	State Tax Id	Subdivision Name					
	1403304884						
Section	Area	Tax Map					
		22					
Grid	Zoning District	ADC Map					
22-6	RR-DEO	4813-J6					
SDP No.	Final Plan No.	WP File No.					
Record Plat No.	WS Contract No.	FDP No.	Primary				
			Yes				
Owner Occupied	Year Built	Historic District					
<input type="radio"/> Yes <input type="radio"/> No	2008	<input type="radio"/> Yes <input checked="" type="radio"/> No					
Historic District Registry No.	Stat Area	Flood Plain					
	3-08A	<input type="radio"/> Yes <input checked="" type="radio"/> No					
Building No							

Owner * (This section is required.)

Search Reset Clear

Name *

NELSON CHAD P

Address Line 1

12401 BENSON BRANCH RD

Address Line 2

Address Line 3

Mail City	Mail State	Mail Zip Code
ELLICOTT CITY	MD	21042
Phone	Primary	
443-414-1882	Yes	
E-mail		
Cell Number	Fax Number	

Professionals (This section is not required.)

Search Reset Clear

License # *
 08010001377
License Type *
 MHIC Ind
Primary
 Yes

Business Name
 BROWNING CONSTRUCTION COMPANY INC
First Name **Middle Name** **Last Name**
 CHARLES
Address Line 1
 23731 RIDGE ROAD
Address Line 2

City **State** **ZIP Code**
 GERMANTOWN MD 20876-0000
Phone 1 **Phone 2** **Fax**
 8007230200 3015409646
E-mail
 CHARLES@BROWNINGPOOLS.COM

Applicant (This section is not required.)

Search As Owner As Lic. Prof As Contact

Type *
 Applicant
Relationship
 Applicant
Primary
 Yes

First Name **MI** **Last Name**
 CHARLES BROWNING
Full Name
 Organization Name
 BROWNING CONSTRUCTION COMPANY INC
Street Address
 23731 RIDGE ROAD
Address Line 2

City **State** **Zip Code**
 GERMANTOWN MD 20876-0000
Phone **Cell** **Fax**
 8007230200 3015409646
E-mail *
 CHARLES@BROWNINGPOOLS.COM

Addl Info

Est Construction Cost * **Housing Units *** **Number of Buildings *** **Public Owned**
 10000 0 0 No

Construction Type
 434 - Additions, Alterations and Conversions - Residential

POOL INFORMATION

MISCELLANEOUS POOL INFORMATION

Capital Project-No Fee * **Capital Project Number** **Fee Exempt *** **Water Supply *** **Sewage Disposal ***
 Yes No Yes No Private Private

Existing Use **Type of Pool or Spa *** **Pool Safety Device *** **Electrical Permit Number** **Expiration Date**
 SFD Hot Tub Fence 11/21/2022

PAYMENT INFORMATION

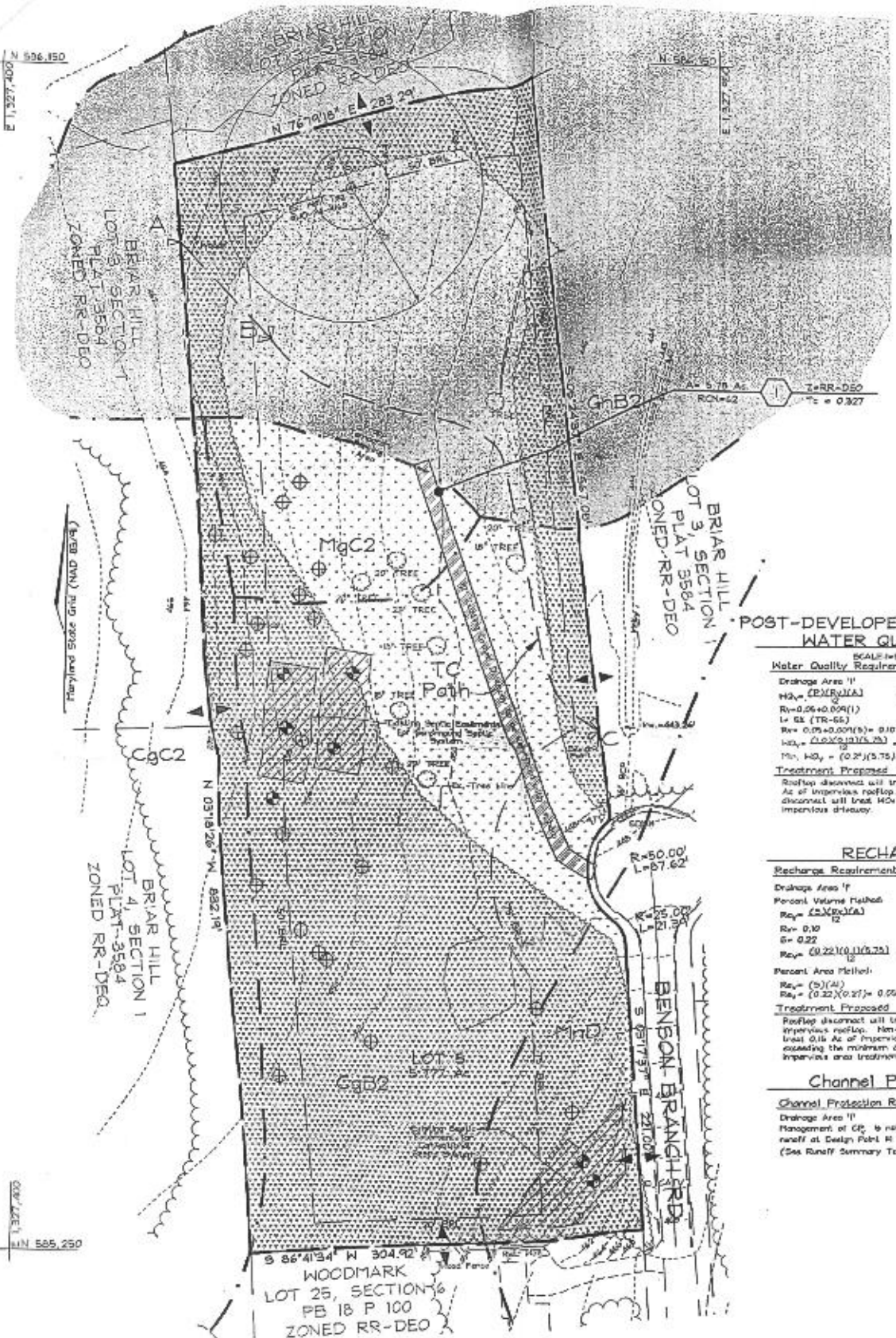
Check 1 **Payee 1** **SAP Doc No** **SAP Entered**

Related Records

Showing 1-2 of 2

Permit Number	Record Type Alias	Status	Number	Street Name	Opened Date	Description
B22001708	Residential Pool or Spa Permit	Review In Process	12401	BENSON BRANCH	05/03/2022	SFTH / INSTALL 8' X 8' HOT TUB ON CONCRETE
E22002276	Residential	Issued	12401	BENSON	05/03/2022	Wiring of

Submit Cancel



EXISTING CONDITIONS
SCALE: 1/8" = 1'-0"

EXISTING FLOW PATH			
PATH	LENGTH	DESCRIPTION	SLOPE
A-B	100'	Sheet Flow	3.7%
B-C	250'	Shallow Concentrated Flow	2.0%

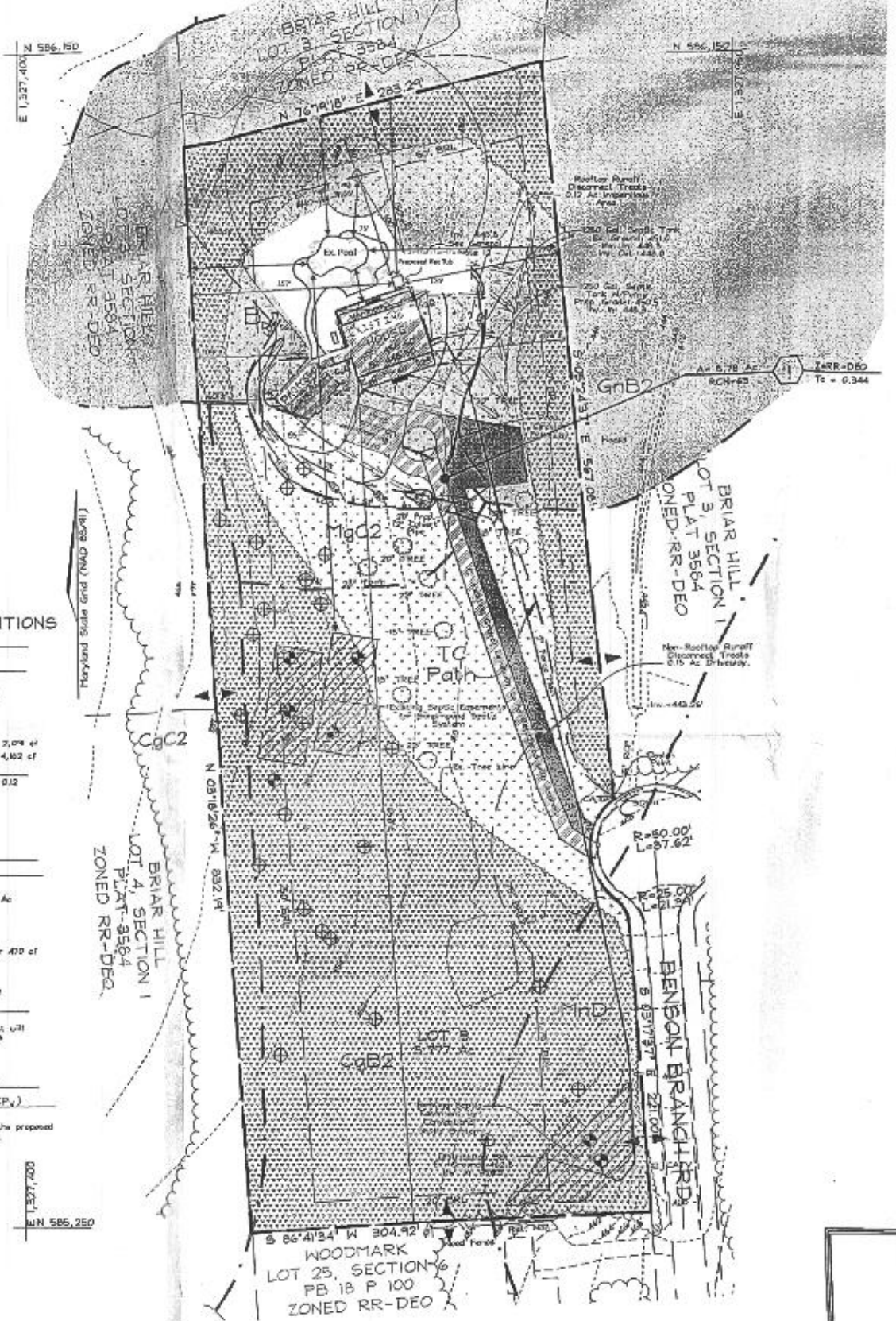
POST-DEVELOPED CONDITIONS
WATER QUALITY

SCALE: 1/8" = 1'-0"
Water Quality Requirements (WQv)
Drainage Area I'
M₂ = (E)(R)(M)A Area = 5.75 Ac
R_v = 0.06 + 0.004(1)
L = 0.5 (TR-55)
R_v = 0.06 + 0.004(1) = 0.10
M₂ = (0.02)(5.75)(2.3) = 0.26 Ac of I₂ or 2.0% of
M₂ = (0.27)(5.75)/12 = 1.29% of 4,162 cf
Treatment Proposed
Rooftop disconnect will treat 0.12 Ac of impervious rooftop. Non-rooftop disconnect will treat M₂ for 0.15 Ac of impervious driveway.

RECHARGE
Recharge Requirements (R_v)
Drainage Area I'
Percent Volume Method Area = 5.56 Ac
R_v = (S)(R)(M)A
R_v = 0.10
S = 0.22
R_v = (0.22)(10)(5.56) = 0.005 Ac² or 470 cf
Percent Area Method
R_v = (S)(A)
R_v = (0.22)(0.27) = 0.059 Ac or 2,670 cf
Treatment Proposed
Rooftop disconnect will treat 0.12 Ac of impervious rooftop. Non-rooftop disconnect will treat 0.15 Ac of impervious driveway, less exceeding the minimum of 0.56 Ac of impervious area treatment.

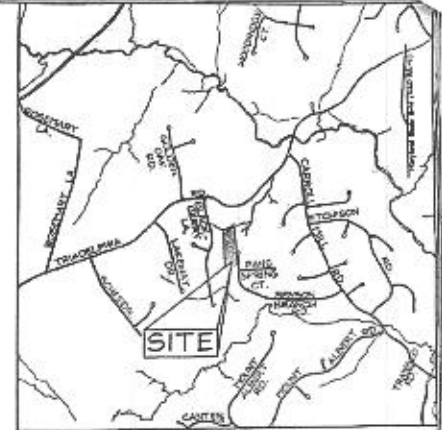
Channel Protection
Channel Protection Requirements (CP_v)
Drainage Area I'
Management of CP_v is not required since the proposed runoff at Design Point II is less than 2cfs (See Runoff Summary Table)

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	SOIL GROUP	
CgC2	Coarser gravelly silt loam, 5 to 15 percent slopes, moderately eroded	USDA: UH	
CgB2	Coarser gravelly silt loam, 5 to 15 percent slopes, moderately eroded	USDA: UH	
CgD	Clayey silt loam, 5 to 8 percent slopes, moderately eroded	USDA: UH	
MgD	Clayey gravelly loam, 5 to 15 percent slopes, moderately eroded	USDA: UH	
MgD	Clayey very stony loam, 5 to 25 percent slopes	USDA: UH	



POST-DEVELOPED CONDITIONS (WQv, CP_v, Rev)
SCALE: 1/8" = 1'-0"

POST-DEVELOPED FLOW PATH			
PATH	LENGTH	DESCRIPTION	SLOPE
A-B	100'	Sheet Flow	3.7%
B-C	250'	Shallow Concentrated Flow	2.0%

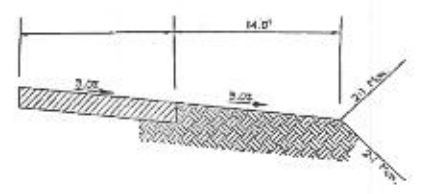


VICINITY MAP
SCALE: 1" = 200'

- LEGEND
- Existing Contour
 - Proposed Contour
 - Existing Spot Elevation
 - Proposed Spot Elevation
 - Direction of Flow
 - Existing Trees to Remain
 - Existing Percolation Test (Passed)
 - Existing Percolation Test (Failed)
 - Drainage Area Line
 - Sett Line
 - 75' Rooftop Runoff Disconnects
 - Non-Rooftop Disconnects

- LAND USE LEGEND
- Woods
 - Law
 - Impervious

- SOILS LEGEND
- CgC2
 - CgB2
 - MgC2
 - MgD
 - CgD



TYPICAL NON-ROOFTOP DISCONNECT
NOT TO SCALE

OWNER
Chad P. Hanson
Angelique A. Roberts
12408 Benson Branch Road
Ellicott City, MD 21043

STORMWATER MANAGEMENT
DRAINAGE AREA MAP
WOODMARK PROPERTY

TAX MAP 22 GRID 12
3RD ELECTION DISTRICT

PARCEL 520
HOWARD COUNTY, MARYLAND

DESIGN BY: JZF
DRAWN BY: CD
CHECKED BY: SA
SCALE: AS SHOWN
DATE: Jun 25, 2008
I.D. No.: 2421
SHEET No.: 1 OF 1

FSH Associates
Engineers Planners Surveyors
8318 Forest Glen Ellicott City, MD 21043
Tel: 410-750-2251 Fax: 410-750-7350
E-mail: info@fshe.com