	www.howard	Permit No.: 644000	<u> </u>
y:State:	Zip Code:	Property Owner's Name: Address: City: State: Phone: Fax: Email:	
and the second second and the second s	Parcel:	Applicant's Name & Mailing Address, (If other than stated her Applicant's Name: Address: City: State: Phone: Fax: Email: Fax:	: i17.
scription of Work:	wedargenned	Contractor Company:	
	7 🛛 Yes 🗍 No	Engineer/Architect Company: Responsible Design Prof.: Address: City: State: Zip Code: Phone: Fax:	A Materia del
ail:	Residential Building Characteristics SF Dwelling SF Townhouse Depth Width 1st floor: 2nd floor: Basement: SF Townhouse Drink of Basement Unfinished Basement Unfinished Basement Crawl Space Slab on Grade No. of Bedrooms: Multi-family Dwelling No. of efficiency units: No. of 2 BR units: No. of 3 BR units: Other Structure: Dimensions: Footings: Roof: State Certified Modular Manufactured Home	Email: Utilities Electric: Yes @ Papelic No @ Private Sewage Disposal @ Other: Sewage Disposal @ Yes Mo @ Grading Permit Number: Sewage Disposal @ Building Shell Permit Num	
HALL REGULATIONS OF HOWARD COUNTY W	HICH ARE APPLICABLE THERETO; (4) THAT HE/SHE W OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPER Checks Payable to: DIRECTOR OF **PLEASE WRITE N FOR OFFIC	3. 金融、市场建立、加速器、市场、市场、市场、市场、市场、市场、市场、市场、市场、市场、市场、市场、市场、	CRIBED IN

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Here the	Building Perm Howard Cour Department of Inspection 3430 Court H Permits: 410 www.howardo	nty Maryland Is, Licenses and Permits House Drive D-313-2455	51800 <i>315</i> 9
Building Address: 15212 Tor City: <u>WOEXDEINE</u> State:	MD zip Code: <u>Q(M)</u> WP/BA #: <u>GP 18.35</u> Subdivision: <u>AUF and Farm</u> <u>Lot: 28</u> Grid: es:Lot Size: <i>g foure</i> <i>g foure</i> <i>y Stratford Hall 4</i> <i>y Con Side attached grapped</i>	Phone: 410-374 - 5436 Fax:	Drive Zip Code: <u>2.000</u> ix: ther than stated herein) ing Services Zip Code: <u>2.17</u> cvices . com cvices . com Zip Code: <u>2.046</u>
Occupant or Tenant: Was tenant space previously occupied? Contact Name: Address: City: S Phone: Email:	□Yes □No	Email: Cagle & NVR Toc. Engineer/Architect Company:	Zip Code:
Commercial Building Characteristics	Residential Building Characteristics	Utilities	1 Martin Charles
Height:	SF Dwelling SF Townhouse	Water Supply	
No. of stories:	Depth Width		
Gross area, sq. ft./floor:	1 st floor: 54 × 54	- C Private	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
	2 nd floor: 48 x 54	Sewage Disposal	
Area of construction (sq. ft.):	Basement: 54 X 54		
	Finlshed Basement		LIYED
Use group:	Unfinished Basement	Private	
Construction transi	Crawl Space Slab on Grade	Electric: Pres I No SEP	0 4 2018
Construction type:		-III Gast Yes No	
E Reinforced Concrete	No. of Bedrooms: 6	Heating System LICENSE	S & PERMITS
C Structural Steel	Multi-family Dwelling	Diversion Divers	ISION
Masonry	No. of efficiency units:	Natural Gas Propane Gas	
Wood Frame State Certified Modular	No. of 1 BR units: No. of 2 BR units:		
	No. of 3 BR units:	D Other:	
	No. of 3 BR units: Other Structure:	Sprinkler System:	
	Dimensions:	Yes 🗆 No	
> Roadside Tree Project Permit	Footings:		
	Roof:	Grading Permit Number:	6180662
Roadside Tree Project Permit #	State Certified Modular		0.00000
Noaqaide free Ploject Pellint#		Building Shell Permit Number:	
WITH ALL REGULATIONS OF HOWARD COUNTY W	S AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED T HICH ARE APPLICABLE THERETO; (4) THAT HE/SHE NTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PRI	O MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CO WILL PERFORM NO WORK ON THE ABOVE REFERENCED PRO OPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMIT Jim KERWIN Print Name 9/4/2018	PERTY NOT SPECIFICALLY DESC

Email Address

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Date / /

AGENT NV Homes Title/Company

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Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY **PLEASE WRITE NEATLY & LEGIBLY** .

-FOR OFFICE USE ONLY-

DPZ SETBACK INFORMATION

Lot Coverage for New Town Zone: SDP/Red-line approval date:

All minimum setbacks met? Yes No Is Entrance Permit Required? Yes No

□ Yes □No

				•				
	AGENCY	0	DATE	SIGN	ATURE	OF AP	PROVA	1
~	State Highways							
-	Building Officials							
_	PSZA (Zoning)							
	PSZA (Engineering)							
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	Is Sediment Control appr	oval	require	d for is	suancei	P 🗌 Ye	s Lono	5

C CONTINGENCY CONSTRUCTION START

White: Building Officials Green: PSZA,Zoning

Yellow: PSZA, Engineering

Historic District?

Front:

Rear:

Side:

Side St.:

Pink: Health

Check

Filing Fee

Permit Fee

Tech Fee

Excise Tax PSFS

Guaranty Fund

Add'l per Fee

Sub-Total Paid

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Vistribution of Copies:

Hi Dave:

Good morning. These two files were in my inbox this morning. I plan to review them this morning. I will keep you posted.

Thanks,

Hank

From: Dave Harward, III [mailto:DaveH@fcc-eng.com] Sent: Tuesday, September 18, 2018 7:13 AM To: Oswald, Hank Cc: Tony Fertitta Subject: Fairlane Farms Lots 28 & 33

Good Morning Hank,

Re: 15212 Torino Way **B18003159 Lot 28**

1039 Thunderbird Dr B18003160 Lot 33

We need your help on these. These have not been signed off on yet. You had emailed Tony with a question about some angled lines showing outside of the septic area on Lot 33 (which he mentioned to you were structural fill lines, that we normally don't show on the OSDS plans). You suggested to Tony that he label them next time (we'll leave them off from now on). But it sounded like you were going to approve the plan as it was.

Lot 28 we submitted on Aug. 13, and mentioned in the transmittal that we had adjusted the septic tank location and were able to get gravity sewer service for the basement.

Please check on these, since NV is needing this sign-off for their permit.

Thanks Hank,

Dave.

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	Dav	eri@fac.e	rig com	

Oswald, Hank

From:	Dave Harward, III <daveh@fcc-eng.com></daveh@fcc-eng.com>
Sent:	Tuesday, September 18, 2018 8:15 AM
To:	Oswald, Hank
Cc:	Tony Fertitta; Cagle, Clint (ccagle@nvrinc.com)
Subject:	RE: Fairlane Farms Lots 28 & 33

That's great. We will make sure (on Lot 28) that the discharge pipe is installed at least 25 ft. away from the SDA. And I'll let NV Homes know about the basement room issue (and have them pass along that information to the homebuyer's).

Thanks Hank !

From: Oswald, Hank [mailto:hoswald@howardcountymd.gov] Sent: Tuesday, September 18, 2018 8:08 AM To: Dave Harward, III Cc: Tony Fertitta; Cagle, Clint (ccagle@nvrinc.com) Subject: RE: Fairlane Farms Lots 28 & 33

Hello Dave:

Lot 28 – the building permit has been approved but please make sure the invert out/discharge from the bio-retention pond is installed at least 25 feet from the SDA.

Lot 33 - the building permit has been approved but I must mention that if the future homeowners should want to install a wall adjacent the full bathroom in the basement (making it bedroom # 6 with a window), they will have to make upgrades to the system first (since the septic system only sized for 5 bedrooms).

Have a good day.

Hank

From: Dave Harward, III [mailto:DaveH@fcc-eng.com] Sent: Tuesday, September 18, 2018 7:43 AM To: Oswald, Hank Cc: Tony Fertitta Subject: RE: Fairlane Farms Lots 28 & 33

OK, Thank You.

From: Oswald, Hank [mailto:hoswald@howardcountymd.gov] Sent: Tuesday, September 18, 2018 7:42 AM To: Dave Harward, III Cc: Tony Fertitta Subject: RE: Fairlane Farms Lots 28 & 33

B18003159

FINAL STORMWATER MANAGEMENT REPORT Fairlane Farms, Lot 28

<u>GP-18-35</u>

Zoned: RC-DEO Howard County, Maryland Sixth Election District Tax Map #8 Grid 2 & 3 Parcel 8 & 17

Thursday, August 09, 2018

<u>Builder:</u> NV Homes 9720 Patuxent Woods Drive Columbia, MD 21046 410-379-5956

Prepared By:

Fisher, Collins and Carter, Inc. Centennial Square Office Park 10272 Baltimore National Pike Ellicott City, Maryland 21042 410-461-2855 w.o. #12036

Professional Certification: I hereby certify that these documents were prepared by me and that I am a duly Licensed Professional Surveyor under the laws of the State of Maryland. License No. 20748, Expiration Date: 2/22/19.



1

TABLE OF CONTENTS

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II. Chapter 5 Table 5.2 Summary of Site Strategies	6-7
III. Site Data for Project	8-9
IV. Chapter 5 SWM Computations	10-14
V. Conclusion	15-16

I. NARRATIVE

Introduction:

This report will demonstrate how the criteria set forth in the Maryland Stormwater Design Manual, Volumes I and II (effective October 2000, revised May 2009) will be satisfied on this project. The goal of creating hydrology similar to that of "Woods in Good Condition" will be accomplished though the use of the practices contained within Chapter 5 of said manual. The achievement of this goal will remove the requirement of providing Channel Protection Volume.

General Site Conditions:

"This Property is zoned RC-DEO and consist of Parcels 8 & 17 located on both Tax Map 3 & Tax Map 8 of the Howard County, Maryland Tax Map Database System. Parcel 8 which is 69.2 acres in size borders Morgan Station Road and Old Frederick Road. Parcel 17 consist of three separate portions of land. One portion which is 28.0 acres in size is adjacent to the aforementioned Parcel 8 and also borders Old Frederick Road. Located to the northeast of this portion is another area of Parcel 17 that is 4.83 in size. The final piece is 36.71 acres and borders the South Branch of the Patapsco River. These three portions of Parcel 17 total 69.4 acres in size. Parcel 8 and the portion of Parcel 17 that border Old Frederick Road create the developable area where improvements have been proposed. The other portions of Parcel 17 (totaling 41.5) along with a proposed contiguous parcel that meanders through the developable area created by Parcels 8 & 17 (totaling 36.7) are planned to be in presentation by the design of this project. The total area of preservation that is currently proposed by this development is approximately 78.2 acres.

The developable area mostly contains 'B' Soils with some 'C' soils located in the area of the wetland, which no disturbance is proposed. Several existing drainage swales travel from the south to the north and develop into two streams, which discharge into the South Branch of the Patapsco River. "

I. <u>Natural Resource Protection:</u>

To ensure the protection of natural resources located on this site, all buffers will be honored by locating improvements away from environmentally sensitive areas.

II. Maintenance of Natural Flow Patterns:

It is the intent of the proposed design to discharge runoff similar to the characteristics and direction of this site prior to any of the proposed improvements.

III. Reduction of impervious areas through better site design, alternative surfaces and Nonstructural Practices

4

This project maintains the original design provided by F-15-054.

IV. Integration of Erosion and Sediment Controls into Stormwater Strategy:

Erosion Control Matting is being used in the proposed swale and super silt fence as shown on the approved GP plans.

V. <u>Implementation of ESD Planning Techniques and practices to the Maximum</u> <u>Extent Practicable (MEP)</u>

The full required ESD volume is being provided.

VI. <u>Request for Design Manual Waiver:</u> No waivers are expected to be required on this project.

II. CHAPTER 5 TABLE 5.2 SUMMARY OF SITE STRATEGIES

Better Site Design MDE Recommendations Proposed Strategies Technique Streets may be as narrow as 22-feet in neighborhoods serving low traffic volumes; open Using narrower, shorter space designs and clustering will reduce street streets, rights of ways lengths; rights-of-ways can be reduced by N/A and sidewalks minimizing sidewalk width, providing sidewalks on one side of the road, and reducing the border width between the street and sidewalk Allow for smaller radii for turn around as low as 35-feet; use a landscaped island in the center of Cul-de-sacs N/A the Cul-de-sac and design these areas to treat stormwater runoff. Allow grass channels or biofilters for residential N/A Open vegetated channels street drainage and stormwater treatment. Parking ratios should be interpreted as maximum number of spaces; use shared parking Parking ratios, parking arrangements; minimum parking stall width should codes, parking lots, and N/A be less than 9-feet and stall length lass than 18structured parking feet; parking garages are encouraged rather than surface lots. Runoff from proposed roadways will be Open Roadway Runoff Section with offset filter areas located on Open N/A Space Lots. Flexible design criteria should be provided to Open Space developers who wish to use cluster development N/A and open space designs Relax setbacks and allow narrower frontages to N/A Setbacks and frontages reduce total road length; eliminate driveways Allow for shared driveways and alternative Driveways Disconnection impervious surfaces Rooftop runoff Direct to pervious surfaces Micro-bioretention Facility Designate a minimum buffer width and provide N/A Buffer systems mechanisms for long-term protection Clearing, grading, and earth disturbance should be Smaller LOD Clearing and grading limited to that required to develop lot. Provide long-term protection of large tracts of Forest Conservation addressed by F-01 Tree conservation contiguous forested areas; promote the use of 191. native plantings. Provide incentives for conserving natural areas N/A Conservation incentives through density compensation, property tax reduction, and flexibility in the design process.

Table 5.2 Summary of Site Development Strategies

7

III. SITE DATA FOR PROJECT

. LOT 19, STORMWATER MANAGEMENT CONCEPT SUMMARY

Site Data:

Total Site Area: 1.02 acres

LOD (Limit of Disturbance): 28,152 SqFt. or .65 Acres.

Soil Condition: 0% "A", 100% "B", 0% "C", 0% "D"

Measured Impervious Area: 4,459 SqFt. or 0.10 Acres+/-

IV. CHAPTER 5 SWM COMPUTATIONS

Stormwater Management Requirements

· Initial Site Assessment (Site Data):

1. Existing Conditions

Total L.O.D:	28,152sq.ft. or 0.65acres +/-
Soil Types:	100% B Soil
Land Use:	Residential
Lot Size	44,512 sq.ft.

2. Proposed Conditions

Impervious Cover: 4,459 sq.ft. or 0.10 acres +/-. (1,522 sq.ft. Paving + 2,937 sq.ft. Rooftop = 4,459 sq.ft. = 0.10 acre)

RCN's for Wooded Conditions: Target Pe Using Table 5.3

% Impervious: 0.10 acres/0.64 acres (LOD) = "I" = 0.158 USE 16%

Using Table 5.3 and applying 16% Impervious

Pe Target for ESD Practices: 1.0 inches

ESD Targets

Impervious Area 16%

Rv = 0.05 + 0.009 (I)= 0.05 + 0.009 (16) = 0.19

ESDv = (Pe)(Rv)(A)12 = (1.0)(0.19)(28,152)12

Minimum Required ESDv = 455.12

Use 456 cu.ft.

ESDv Provided - Disconnection of Non-Rooftop Runoff

ESDv provided by N-2 (28) Non-Rooftop Runoff Lot : 136 cu.ft.

Determine Treatment for the proposed driveway: 1,522 SqFt. of Driveway A non-rooftop disconnect area has been proposed along the driveway, The following calculations reflect the most extream of the the disconnectuin area. Impervious Ratio = 100.0% Disconnection Length / Impervious Length = 20.0/14.0 Using Table 5.7(page 5.62) the PE treatment provided based on a 1:1 ratio is 1.0" Pervious ratio = Disconnection Length / Contribution Length = N/A Using Table 5.7 (page 5.62) the PE treatment provided based one a 1:1 ratio is 1.0" Using a treated Pe of 1.0" Environmental Site Design has been provided.

ESDv = (Pe)(Rv)(A)12

ESDv Required: (1.0)(0.95)(1,522)/12 = 120.49 cu.ft.

ESDv Provided - Micro Bio retention

ESDv provided by Micro-Bioretention M-6 (1): 336 cu.ft.

Drainage Area: 2937 sq.ft. Impervious Area: 2937 sq.ft. or 100% Impervious

Rv = 0.05 + 0.009 (I)= 0.05 + 0.009 (100) = .95

ESDv = (Pe)(Rv)(A)12
ESDv Required: (1.0)(0.95)(2937)/12 = 232.51 cu.ft.

This Bio Retention Facility has the total storage potential of 336 CuFt. Provided by a surface area of 258 SqFt having a perimeter of 52' and a depth of 1'. This is beyond the required 174.38 CuFt (232.51 CuFt x 0.75) needed to store at least 75% of overall ESDv within the surface area. The remaining 25% of ESDv is accounted for within the stone reservoir at the bottom of the facility. In summary 100% of the required ESDv is being provided within the proposed facility.

Total ESDv required: 456 CuFt.

-ESDv credit provided by N-2 Disconnection of Non-Rooftop Runoff: 136 CuFt.

Total ESDv remaining: 320 Cu.Ft. Required ESDv storage (320 Cu.Ft. x .75) = 240 Cu.Ft.

-ESDv storage provided by M-6 Micro-Bioretention: 336 CuFt.

Total ESDv storage provided 472 CuFt.

VIII. CONCLUSION

VI. <u>Conclusion:</u>

 Contained within this SWM report, we have attempted to demonstrated the ability to mimic the runoff characteristics of "woods in good condition" through approved MDE Chapter V practices. It is this firms opinion that Environmental Site Design (ESD) to the Maximum Extent Practicable (MEP) has been achieved through the use of one micro-bioretention facility & non-rooftop disconnection, to meet and exceed the required ESD volume.

Fairlane Farm Lot 28 15212 Torino Way

STRATFORD HALL

	FULL BASEMENT	
	D DAGG.	
	Ê	
OPTIONS	OP-1	
SPEC SHEET	55-1 55-1	
ELEVATIONS	4	
FOUNDATIONS	14	
FOUNDATION HOLD DOWNS PLUMBING	22, 23, 24, 25 26	
BASEMENT FLOOR PLAN	20 21	
FIRST FLOOR PLAN	29	
SECOND FLOOR PLAN	32.1	
BUILDING SECTIONS	34, 36	
STAIR SECTIONS	38	
KITCHEN - BATHS	41, 42, 43, 44	
BASEMENT ELECTRICAL	45	
FIRST FLOOR ELECTRICAL	47	
SECOND FLOOR ELECTRICAL	50	
FIRST FLOOR FRAMING SECOND FLOOR FRAMING	52	
ROOF FRAMING	54	
TRUSS BRACING	55, 56 61 C	
WALL BRACING LAYOUT		
HVAC LAYOUT	67	
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STANDARD

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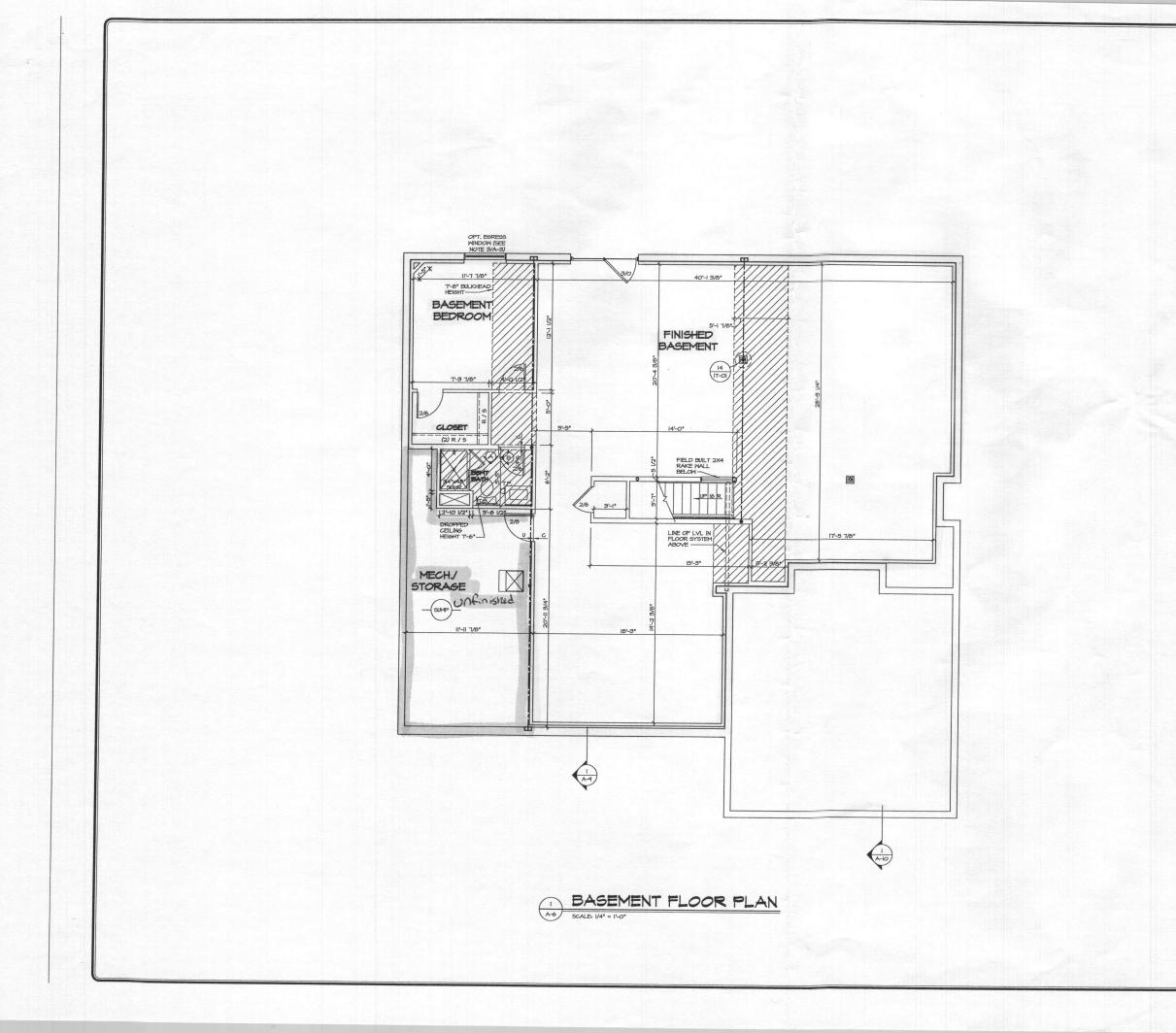
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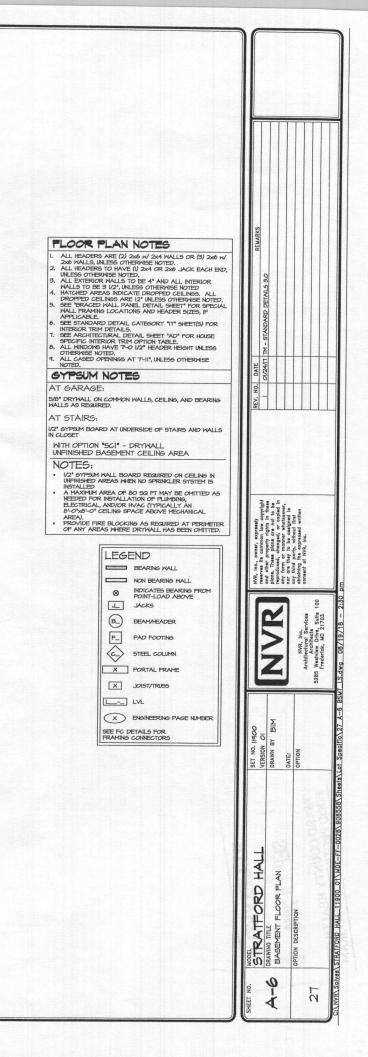
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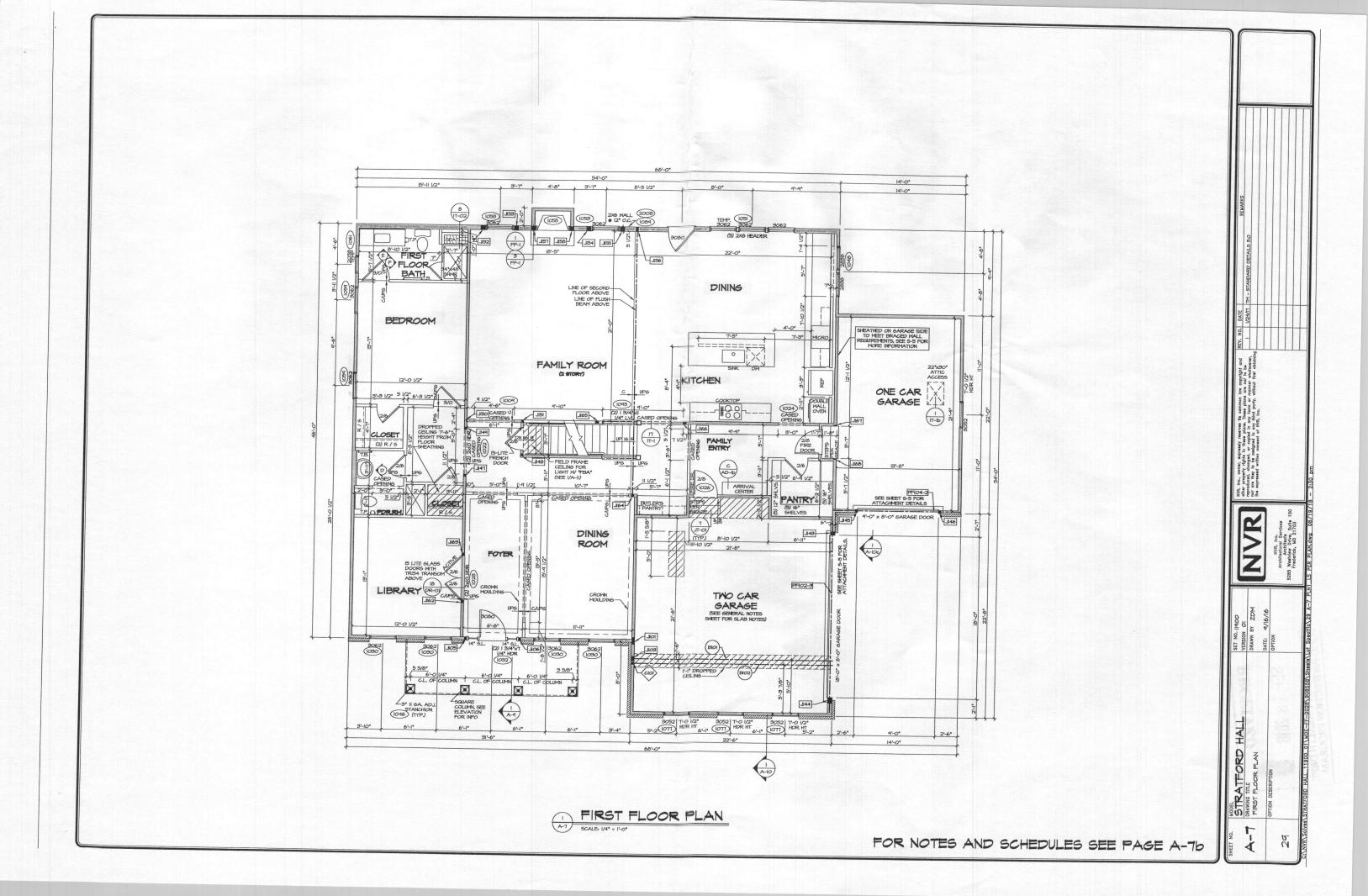
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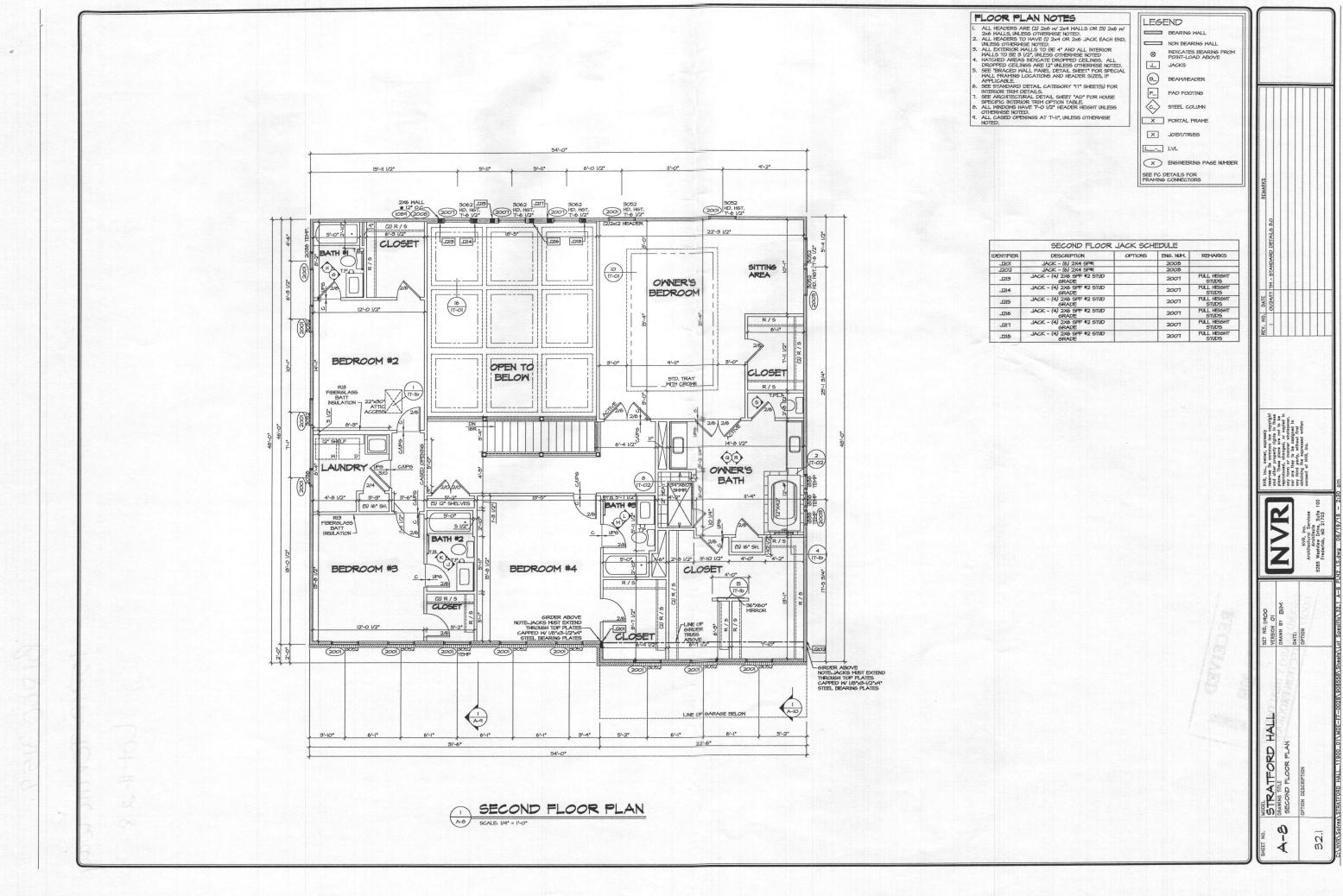
NVR, Inc. Architectural Services Architects 5285 Westview Drive, Suite 100 Frederick, MD 21703

	OOTAGE
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	2151 SF
SECOND FLOOR SQUARE	
DESCRIPTION 2ND FLOOR (BASE SF)	TOTAL SQ. FT.
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DESCRIPTION	TOTAL SQ. FT.
THO CAR GARAGE ELEV. "A" OR "K" OR "R"	501 SF
ONE CAR SIDE ATTACHED GARAGE (ADD. SF)	314 SF
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IACK - (4) 2X6 SPF #2 STUD GRADE		2001	FULL HEIGHT STUDS
IACK - (4) 2X6 SPF #2 STUD GRADE		2007	FULL HEIGHT STUDS
IACK - (4) 2X6 SPF #2 STUD GRADE		2007	FULL HEIGHT STUDS
IACK - (4) 2X6 SPF #2 STUD GRADE		2001	FULL HEIGHT STUDS
JACK - (4) 2X6 SPF #2 STUD GRADE		2001	FULL HEIGHT