SOILS TABLE SYMBOL RATING K FACTOR SOIL MAP # COMMENTS CHILLUM-RUSSETT LOAMS, 2 TO 5% SLOPES 0.37 (B) 24

SWM PRACTICES SCHEDULE REQUIRED ESDV PROVIDED ESDV PROPOSED PRACTICES AREA M-5, (7) DRYWELLS PARCELS 1,034 C.F. 1.053 C.F. N-2, (1) NON-ROOFTOP 731, 732 DISCONNECTION

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D COOPER T. PAPPAS KATHLEEN A. PAPPAS 4587/0589

4636/0124

5458/0437

-ZONED: R-SC

1.21 AC COR 52,493

KINGS ARMS

SEC. 1 AREA (1

R-SC L __ _ _ _ _ _ _

PLAT# 13776 |

PLAI# \13776

EX. 12" W CONTRACT# 24-1226

KINGS ARMS

PLA + 15405-86

PARCEL 732 & 731

LPT 13

KINGS ARMS

, SEC. 2 FPLAT# 15483_86

SITE ANALYSIS DATA:

1. AREA OF THE SITE = 1.21± AC (GROSS) 2. LIMIT OF DISTURBANCE = 36,450 S.F. $(0.84 \text{ AC}\pm)$

AREA OF ROAD DEDICATION = 0

4. AREA OF WETLANDS AND ITS BUFFERS = 0 5. AREA OF 100 YEAR FLOODPLAIN= 0

AREA OF STREAM BUFFER = 0

7. AREA OF STEEP SLOPES (25% OR GREATER AT VERTICAL DISTANCE OF 10 FEET OR MORE = 0

8. AREA OF 15%-24.99% SLOPES = 0

9. AREA OF SLOPES 20% OR GREATER = 0

10. AREA OF FOREST = 0 11. TOTAL ENVIRONMENTAL SENSITIVE AREA = 0

12. AREA OF HIGHLY ERODIBLE SOILS = 52,707 S.F. (1.21 AC±) 13. PROPOSED GREEN OPEN SPACE = 42,740 S.F. (0.98 AC±)

14. ONE (1) NEW SINGLE FAMILY DETACHED RESIDENTIAL UNIT IS PROPOSED.

15. AREA OF PROPOSED IMPERVIOUS= 8,550 SF

SWM CALCULATIONS

ESD REQUIRED LOT AREA = 52,493 SF HOUSE AREA =4,530 SF DRIVEWAY AREA = 4,020 SF

TOTAL IMPERVIOUS AREA = 8,550 SF IMPERVIOUS RATIO = 16.3% SOIL TYPE: B (100%) REQUIRED Pe = 1.2" [TABLE 5.3]

Rv = 0.197REQUIRED ESDv =1,034 CF

DRIVEWAY:
NON-ROOFTOP DISCONNECTIONS AT 1:1 RATIO OF CONTRIBUTING IMPERVIOUS LENGTH TO DISCONNECTION LENGTH AND PERVIOUS LENGTH RATIO TO DISCONNECTION LENGTH OF MORE THAN 0.5:1, (N-1) OF THE MDE DESIGN MANUAL AREA OF N-1 NON-ROOFTOP DISCONNECTION = 4,020 SF ESDV PROVIDED 318 CF

HOUSE: FIVE (5) DRYWELLS AT 126 CF EACH OF STORAGE, DIMENSIONS: (5')(10.5')(7'), (M-5) OF THE MDE DESIGN MANUAL ÈSDV PROVIDED 735 CF

TOTAL ESDV PROVIDED 1,053 CF BY PROVIDING THE NON-ROOFTOP DISCONNECTIONS (N-2), AND DRYWELLS (M-5) THE ENTIRE TARGET RUNOFF HAS BEEN TREATED VIA NON-STRUCTURAL PRACTICES.

<u>LEGEND</u>

MINOR CONTOUR PROPOSED SUPER SILT FENCE

LIMIT OF DISTURBANCE

XXXXXXX

IMPERVIOUS AREA TREATED BY NON-ROOFTOP DISCONNECTION (N-2)

STABILIZED CONSTRUCTION ENTRANCE

NON-ROOFTOP DISCONNECTION (N-2) IMPERVIOUS AREA TREATED BY DRYWELLS (M-5)

OWNERCOOPER T PAPPAS

KATHLEEN A PAPPAS

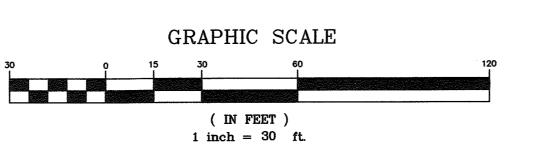
9007 CYGNET PL, LAUREL

MD. 20723

301-725-7680

EXISTING TREE LINE EXISTING OVERHEAD ELECTRIC

DRYWELL (M-5)



SEC. 🗈 🥄

Alai# 15483–86 |

R-SC

KINGS ARMS

SECA 1 AREA

G.=290.83

`YŁAI`≱_13776,

TEMPORARY STOCKPILE

LOT 22

Kingslarasi

Plaï# 15483-86

R-SC

MORGANS LANDING

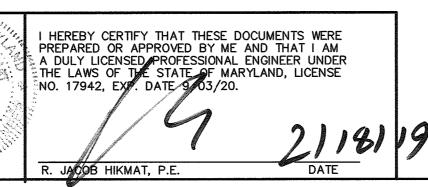
VICTORIA HUTT SCOTI PARCEL 755

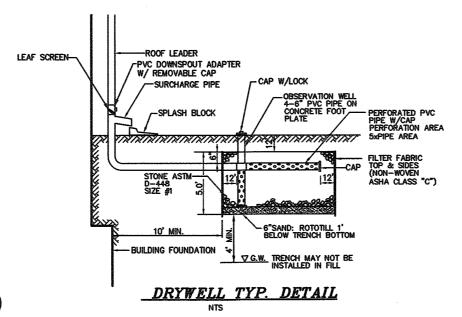
R-SC

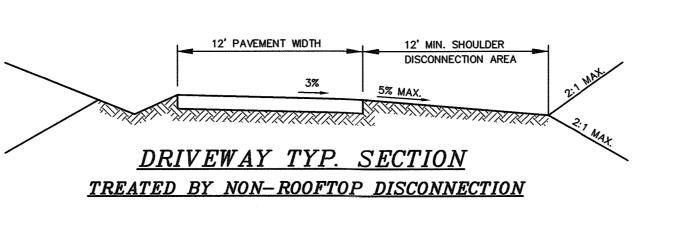
DEVELOPER

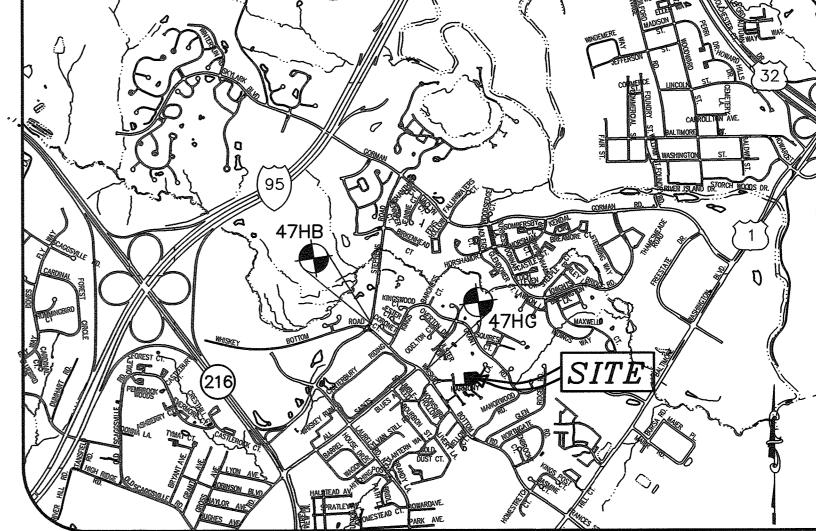
KEITH BUTLER NOW OR LATER CONSULTING SERVICES, LLC 14701 DANTON CT. BOWIE, MD 20721 301-390-5877

APPROVED: DEPARTMENT OF PLANNING AND ZONING 2.26.19 CHIEF. DEVELOPMENT ENGINEERING DIVISION CHIEF, DIVISION OF LAND DEVELOPMENT LAND 2/19/19









VICINITY MAP

NOTES:

1. SITE ANALYSIS DATA: ADDRESS: 9910 HARMONY LANE, LAUREL, MD. 20723 LOCATION: TAX MAP: 47 PARCEL: 731 &732 GRID 22 ELECTION DISTRICT: SIXTH ZONING: R-SC TOTAL AREA: 1.21 AC± TOTAL NUMBER OF UNITS TYPE OF PROPOSED UNIT: SFD PROPOSED USE FOR SITE : RESIDENTIAL.

2. HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 47HG & 47HB STA. No. 47HB EL. 296.82 N 531,895.744 E 1,356,076.346 STA. No. 47HG EL. 294.55 N 531,085.007 E 1,357,060.425

3. PROJECT BOUNDARY IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT OCTOBER, 2018 BY VYFHUIS & ASSOCIATES.

4. ON SITE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PERFORMED ON OR ABOUT OCTOBER, 2018 BY VYFHUIS & ASSOCIATES, OFF SITE IS AS PER 2011 HOWARD COUNTY

5. PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED UNDER CONTRACT # 24-1126-D.

6. NO CEMETERIES EXIST ON SITE.

7. THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT.

8. NO FOREST EXISTS ON-SITE.

9. NO WETLANDS, WETLAND BUFFERS, FLOODPLAIN, STREAM, STREAM BUFFER OR ERODIBLE SOILS EXISTS ON-SITE.

10. APPROVAL OF THIS ECP DOES NOT CONSTITUTE ANY APPROVAL OF SUBSEQUENT SUBDIVISION OR SITE DEVELOPMENT PLANS. FURTHER COMMENTS WILL BE GENERATED UPON REVIEW OF THE APPLICABLE DEVELOPMENT PLANS IN ACCORDANCE WITH THE SUBDIVISION AND ZONING REGULATIONS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

11. THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS (COUNCIL BILL 45-2003). DEVELOPMENT OR CONSTRUCTION OF THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION OR BUILDING/GRADING PERMIT.

12. FOREST CONSERVATION OBLIGATION FOR THIS PROJECT WILL BE PROVIDED VIA A PAYMENT OF FEE-IN-LEIU.

13. THERE IS AN EXISTING SHED TO BE REMOVED.

ESD NARRATIVE

1. THE AREA OF THIS PROJECT IS APPROXIMATELY 1.21 ACRES. NO FOREST, FLOODPLAIN, WETLANDS, WETLAND BUFFER, STREAMS, STREAM BUFFER OR STEEP SLOPES EXIST ON

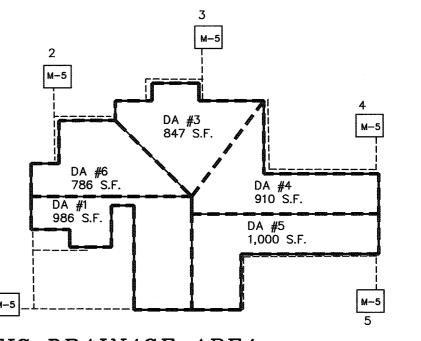
2. THE IMPROVEMENTS AND DEVELOPED AREA WILL MAINTAIN THE EXISTING DRAINAGE PATTERNS AS CLOSELY AS POSSIBLE. NO IMPACT IS PROPOSED THAT WOULD ALTER ANY

3. NON-STRUCTURAL PRACTICES WERE USED TO THE MAXIMUM EXTENT POSSIBLE. DRYWELL (M-5) AND NON-ROOFTOP DISCONNECTIONS (N-2) HAVE BEEN UTILIZED.

4. THE REQUIRED EROSION AND SEDIMENT CONTROL MEASURES WILL BE IN ACCORDANCE WITH THE LATEST MDE STANDARDS AND SPECIFICATIONS. SILT FENCES WILL BE UTILIZED. NO CONCENTRATION FLOW IS PROPOSED. NO SEDIMENT TRAPS OR BASINS ARE REQUIRED.

TABLE 5.2, SUMMARY OF SITE DEVELOPMENT STRATEGIES WAS UTILIZED TO THE EXTENT ALLOWABLE BY THE CURRENT HOWARD COUNTY ZONING AND LAND DEVELOPMENT

6. IN DESIGNING THIS PROJECT, AND AFTER WE PLAN THE PROJECT TO MINIMIZE IMPERVIOUS AREAS, WE UTILIZED ESD MEASURES IN THE FOLLOWING ORDER OF PREFERENCE: A. DISCONNECTION OF NON-ROOFTOP (N-2)



SCHEMATIC DRAINAGE AREA TO DRYWELLS (M-5)

OF 1

ECP-19-020

ADC MAP 40, GRID D-6

SSO

MILDENBERG BOENDER &