SOILS LEGEND NAME/DESCRIPTION K VALUE GROUP RUB RUSSETT AND BELTSVILLE SOIL, 2 TO 5 PRECENT SLOPES ENVIRONMENTAL CONCEPT PLAN APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN JRBAN LAND-FALLSINGTON COMPLEX, O TO 5 PRECENT SLOPES APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED URBAN LAND-UDORTHENTS COMPLEX, 0 TO 15 PRECENT SLOPES SUBDIVISION PLAN, SITE DEVELOPMENT PLAN, OR GRADING OR BUILDING PERMIT PLAN. REVIEW OF THIS DORSEY CENTER, PARCEL R

APARTMENT BUILDING

1ST ELECTION DISTRICT PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS BASED ON USDA NRCS WEB SOIL NATIONAL COOPERATIVE SOIL SURVEY. SEE HOWARD COUNTY SOIL SURVEY MAP NO. 25. SHALL OCCUR AT THE SUBDIVISION, SITE DEVELOPMENT PLAN, OR GRADING AND BUILDING PERMIT STAGES. **ECP Site Analysis Data Sheet** HOWARD COUNTY, MARYLAND 4.43 ac 0.75 ac 100уг Floodplain Slopes 15% or Greater 0.00 ac 0.00 ac Wetlands Buffer 0.00 ac 616 If 1.27 ac Forested Area(Excluding Floodplain) 0.64 ac Erodable Soils('D'Soil) 1.84 ac **DESIGN NARRITIVE** Limit of Disturbance 4.10 ac 2.30 ac Impervious Area The Dorsey Center Parcel 'R' is an approximately 4.43 acres parcel of land located in the southeast quadrant of the intersection of U.S. Route 1 and Maryland Route 1.80 ac Green Space(Within LOD) BENCH MARKS-(NAD'83) 100. It is located between Deerpath Road and Dorsey Road, at the west end of Deerpath *All areas are approximate. Road. The property is zoned TOD (Transit Oriented District) and is within the Route 1 TRAV. PT. 1 EL.157.73
TRV. MAG; 18.0' NORTHEAST OF CONC.
CURB OF SOUTHEASTBOUND LANE OF
DEERPATH ROAD; 20,3' NORTH OF EX. INLET
N 553,149.12 E 1,381,844.44 EXISTING BUILDING Manual area. The property currently contains an existing floodplain that terminates at the property boundaries. Existing streams enters the site at two locations, from under Dorsey ----Road via an underground culvert and from the neighboring property (i.e., a Best Western Hotel) via an underground culvert. These two intermittent streams converge to form a Yshape in the western portion of the site and exit the site as a single intermittent via an underground culvert. The site is mostly wooded with an existing house and barn on the TRAV. PT. 2 EL.154.64
TFLY MAG; 3.1' NORTHEAST OF CONC. area of the property fronting Dorsey Road. The site is classified as both Hydrologic CURB OF SOUTHEASTBOUND LANE OF DEERPATH ROAD; 20.3' NORTH OF EX. INLET N 553,037.81 E 1,381,953.46 The proposed development is for an apartment building consisting of approximately 150 to 200 units. The parking for the building will be located below the building. The existing stream is to be diverted around the site vis a storm drain bypass system. Stormwater management (SWM) for this site impervious area is to be controlled **GENERAL NOTES** by Bio-retention. The facilities are located along the north entrance of the site adjacent to Deerpath Road. The facilities will outfall at the eastern bypass discharge. In addition to the required ESD management of the 10 year and 100 year is required is required since 1. THE SUBJECT PROPERTY IS ZONED TOD PER THE 10/06/13 COMPREHENSIVE this site drains to a tributary to the Deep Run above a railroad stream crossing per the 30' RESIDENTIAL DISTRICT ALL STRUCTURE AND USE SETBACK Design Manual Volume I, Section 5.2.1. This is proposed by means of underground storage pipe. This site falls within the Patapsco River Lower North Branch (2130906) 2. THERE IS A FLOODPLAIN ON THIS SITE AND IS SHOWN AS RECORDED PER-PLAT 6729. 3. THERE ARE NO WETLANDS ON THIS SITE. THIS IS BASED ON THE WETLAND STUDY watershed designation 02-13-09. PROVIDED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. DATED JULY 12, 2004 AND As a result of addressing the stormwater management by use of ESDs to the MEP VERIFIED BY ECO-SCIENCE PROFESSIONALS, INC. DATED AUGUST 2014. the land conditions have theoretically been returned to woods in good condition and . THE CONTOURS SHOWN HEREON HAVE BEEN TAKEN FROM FIELD RUN TOPOGRAPHIC SURVEYS AT therefore reduced the overall run-off for the I-year storm. A reduction in impervious area 2' INTERVALS PREPARED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JUNE, 2006. with the use of bioretention practices makes for a better site design as well as maintaining the original drainage patterns. 5. VERTICAL CONTROL AND HORIZONTAL CONTROL BASED UPON HOWARD COUNTY NAD '83 CONTROL, Sediment and erosion control shall comply with the latest edition of the MDE . THIS PROPERTY IS WITHIN THE METROPOLITAN WATER AND SEWER DISTRICT. Standards and Specifications for Sediment Control and has been limited to the areas **EXISTIN** 7. WATER AND SEWER SERVICE FOR THIS SUBDIVISION IS PUBLIC. THE PUBLIC SEWER IS PROVIDED necessary to conduct ESD practices and onsite functionality. BY CONTRACT 14-1521-D. THE PUBLIC WATER IS PROVIDED BY CONTRACT 14-1447-D. THIS SUBDIVISION FALLS WITHIN THE PATAPSCO DRAINAGE AREA. BUILDIN It is concluded that all ESD to the MEP requirements as defined in the Stormwater Management Act of 2007 have been met for the proposed development. The 8. EXISTING UTILITIES SHOWN WERE LOCATED BY RECORD DRAWINGS AND FIELD LOCATIONS. Water Quality has been provided by the implementation bioretention facilities (M-6) to 9. THE BOUNDARY SHOWN HEREON IS TAKEN FROM THE BOUNDARY SURVEY PREPARED BY BENCHMARK treat all of the proposed impervious onsite. ENGINEERING, INC., ON OR ABOUT JUNE, 2006. Implementation of the proposed development would require piping of the existing 10. PREVIOUS DEPARTMENT OF PLANNING AND ZONING REFERENCE NUMBERS: SDP-05-29, F-86-109 & F-07-80, SDP-07-016, WP-15-131 onsite stream. The piping would have minimal impact on aquatic resources given the limited opportunity that the stream currently provides. It is reasonable to conclude that MABEY BRIDGE & SHORE IN TAX MAP 37 PARCEL 674 LIBER 6496 FOLIO 665 11. THE FOREST CONSERVATION ACT REQUIREMENTS FOR 1.09 ACRES OF REQUIRED REFORESTATION HAVE BEEN MET THROUGH THE PAYMENT OF A FEE-IN-LIEU. THE AMOUNT piping the stream channel will have little to no negative resource impact and in some RO RO RO RO cases may actually help improve overall water quality of the system. This work, combined with a mitigation program could certainly enhance the water quality and aquatic resources of the area. 12. THIS PLAN IS SUBJECT TO WP-15-131 APPROVED MAY 21, 2015 TO SECTION 16.116(a)(2)(i) PROHIBITING GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW ATOK YOTA CONSTRUCTION WITHIN 50' OF AM INTERMITTENT STREAM BANK BUFFER, AND SECTION 16.115(c)(2) PROHIBITING CLEARING, EXCAVATION, FILLING, ALTERING DRAINAGE OR IMPERVIOUS PAVING IN A FLOODPLAIN, FOR CONSTRUCTION OF A 65,000 SQ.ST. APARTMENT BUILDING, RELATED PARKING AND AMENITIES AREA. APPROVAL OF THE REQUESTED WAIVERS IS SUBJECT 1. MARYLAND DEPARTMENT OF THE ENVIRONMENT AND ARMY CORP. OF ENGINEER PERMIT ORSEY BUSINESS CENTER LEGEND ntermittent stream bank buffers and filling of the 100 year flood plain area SPEEDWAY ROCK, LLC. ON PARCEL R OF THE DORSEY CENTER SUBDIVISION. ALL OTHER COUNTY AND STATE PARCEL 'A' PERMITS ARE REQUIRED AS APPLICABLE. A NOTE SHALL BE ADDED TO THE SITE ZONED: TOD DEVELOPMENT PLAN INDICATING ALL PERMIT NUMBERS, DATE AND ACTION TAKEN. ---<u>452</u>__--EX. OFFICE BUILDING . PROVIDING SAFE CONVEYANCE, WITHOUT ADVERSELY IMPACTING DOWNSTREAM EXISTING CONTOURS PROPERTIES, OF THE 100 YEAR DISCHARGE OF 397.3 CFS TO THE EXISTING DOWNSTREAM STORMWATER MANAGEMENT POND. THE 100 YEAR CFS IS BASED ON THE COMPUTATIONS RECEIVED AT THE ENVIRONMENTAL CONCEPT PLAN: Q=CIA=0.89x12.75x35=397.2. **EXISTING TREELINE** 3. COMPLIANCE WITH THE COMMENTS DATED MAY 20, 2015 FROM THE DEVELOPMENT 4. ALL CONSTRUCTION ON PARCEL R SHALL BE SUBJECT TO REQUIREMENTS OF THE PROPOSED TREELINE www.... HOWARD COUNTY BUILDING CODE, MITIGATION OF THE APPROVAL OF THE WAIVER REQUESTS FOR THE PROPOSED ON-SITE STREAM DIVERSION VIA A STORM DRAIN BYPASS SYSTEM WILL REQUIRE THE RESTORATION OF THE SECTION OF DEEP RUN STREAM SEGMENT BY EXISTING STREAM THE APPLICANT AS INDICATED IN THE WAIVER PETITION APPLICATION JUSTIFICATION. A SITE DEVELOPMENT PLAN SHALL BE SUBMITTED FOR THE OFF-SITE STREAM RESTORATION PROJECT PRIOR TO FINAL SIGNATURE APPROVAL OF THE SITE DEVELOPMENT PLAN FOR EXISTING STREAM BUFFE APPROXIMATE 100 YEAR FLOODPLAIN LIMITS **EXISTING STRUCTURE** GRAPHIC SCALE (IN FEET) 1 inch = 50 ft.BUILDING Professional Certification. I hereby certify that these document 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. 22390, Expiration Date: 6.30.17. BENCHMARK ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS ENGINEERING, INC 8480 BALTIMORE NATIONAL PIKE A SUITE 315 A ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM STORAGE CHART PROPOSED RUNOFF STORAGE REQUIRED STORAGE PROVIDED EXISTING RUNOFF STORM | 10 YEAR 18,295 cf 18,295 cf **DORSEY CENTER** 100 YEAR 22.29 cfs 39.33 cfs 24,394 cf 24,394 cf PARKWAY ROCK LLC PARCEL R 6800 DEERPATH ROAD **ESD SUMMARY TABLE** SUITE 100 Pe= 1.9 inches LOCATION: ELKRIDGE, MARYLAND PARCEL 375 - GRID 24 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 410.579.2242 1st ELECTION DISTRICT Required Provided Af Min. | Provided | Pe(Provided) | Required | Provided | Own HOWARD COUNTY, MARYLAND Ket Shenhood 33,500 33,500 4243 4307 33,500 PARKWAY ROCK LLC 33,500 4243 4342 PASS 1.00 5789 CHIEF, DIVISION OF LAND DEVELOPMEN ENVIRONMENTAL CONCEPT PLAN 6800 DEERPATH ROAD M-6 33.500 4313 4243 PASS 1.00 5039 5751 SUITE 100 **EXISTING CONDITIONS PLAN** TOTAL TREATED 100,500 100,500 12,730 | 12,962 15,849 | 17,283 2.1 ELKRIDGE, MARYLAND SITE TOTAL 192.970 100.500 PROJECT NO. 1959 410.579.2242 CHIEF, DEVELOPMENT ENGINEERING DIVISION Design: JCO | Draft: JCO | Check: CAM DRAWING 1 OF 2 SCALE: AS SHOWN ECP-15-017

