#### **GENERAL NOTES**

- 1. THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS.
- 2. THE EXISTING TOPOGRAPHY IS A SURVEY OF FIELD RUN TOPO PREPARED BY MORRIS AND RITCHIE ASSOCIATES, INC. DATED 11/16/2017, HOWARD COUNTY GIS TOPO (CIRCA 2011) HAS BEEN SHOWN TO SUPPLEMENT THE PLAN.
- 3. BOUNDARY INFORMATION IS BASED ON A FIELD RUN BOUNDARY SURVEY PERFORMED BY MORRIS AND RITCHIE ASSOCIATES, INC. DATED NOVEMBER 16, 2017.
- 4. EXISTING UTILITIES ARE BASED UPON FIELD RUN SURVEY PERFORMED BY MORRIS AND RITCHIE ASSOCIATES, INC. DATED 11/16/2017 AND SUPPLEMENTED BY ACCUMARK DATA COLLECTED ON 11/01/2017.
- 5. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS, 48AM1 AND 43GM1 WERE USED FOR THIS PROJECT
- 6. THIS PROJECT UTILIZES ENVIRONMENTAL SITE DESIGN FOR ALL SWM PRACTICES, ALL SWM DEVICES WILL BE PRIVATELY OWNED AND MAINTAINED.
- 7. THERE IS NO FLOODPLAIN ON THIS SITE. 8. THERE ARE NO STREAMS OR WETLANDS ON THIS SITE. STEEP SLOPES EXIST ALONG THE BOUNDARY ADJACENT TO
- THE RAIL LINES.
- 9. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY TRAFFIC CONCEPTS, INC. DATED OCTOBER 26, 2017.
- 10. NO NOISE STUDY REQUIRED FOR THIS PROJECT.
- 11. GEOTECHNICAL REPORT WAS PREPARED BY GEO-TECHINICAL ASSOCIATES, DATED MAY 11, 2018.
- 12. PHASE 1 ENVIRONMENTAL SITE ASSESSMENT REPORT WAS PREPARED BY ECS, DATE SEPTEMBER 18, 2014.
- 13. THE FOREST CONSERVATION WORKSHEET IS TO BE FURTHER EVALUATED BY HOWARD COUNTY WITH THE SUBMITTAL OF THE SITE DEVELOPMENT PLAN.
- 14. THE APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) DOES NOT CONSTITUTE ANY APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAT/PLAN AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAT/PLAN AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR RED-LINE REVISION PLAN PROCESS. THEREFORE THE APPLICAN 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.
- 15. THE CORRECTNESS OR COMPLETENESS OF EXISTING INFORMATION SHOWN ON THE DRAWINGS IS NOT WARRANTED OR GUARANTEED. THE CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITIES AND UNDERGROUND FACILITIES, BY TEST PITS OR OTHER METHODS APPROVED BY THE OWNER'S REPRESENTATIVE, AS REQUIRED TO VERIFY EXACT LOCATIONS AND DEPTHS WITHIN THE LIMIT OF DISTURBANCE. ALL DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND THAT VERIFIED IN THE FIELD SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.

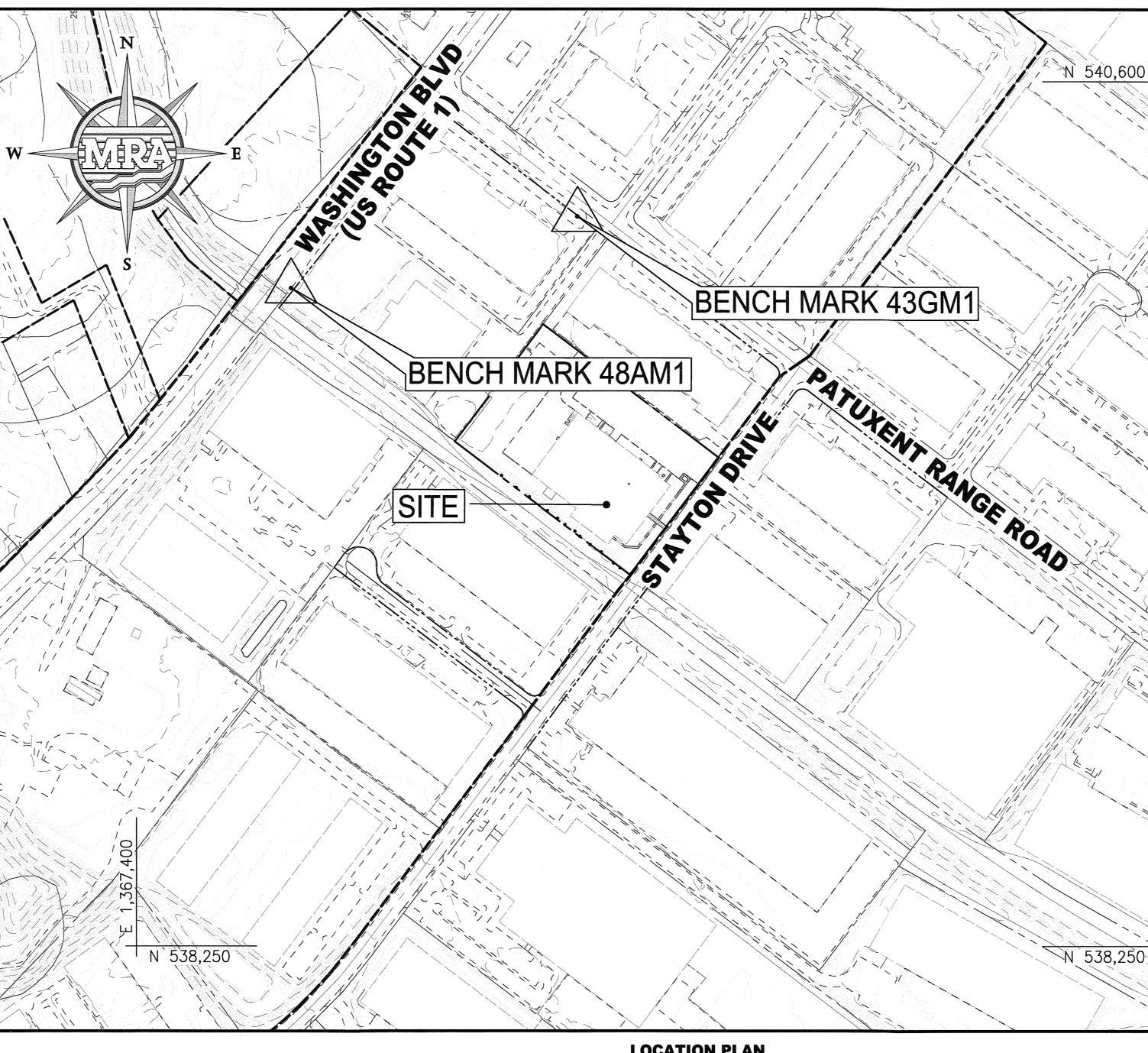
#### **DESIGN NARRATIVE**

#### NATURAL AREA PRESERVATIONS

- THE PROPERTY (5.51 ACRES) IS LOCATED IN AN EXISTING DEVELOPED AREA (3.51 ACRES OF IMPERVIOUS), WHERE MANY OF THE NATURAL RESOURCES THAT WOULD EXIST ON UNDEVELOPED LAND (I.E. WETLANDS, STREAMS, FORESTED AREAS, FLOODPLAINS AND THEIR RESPECTIVE BUFFERS) ARE NO LONGER PRESENT ON SITE. FLOWS FROM THE SITE DISCHARGE INTO AN EXISTING STORM DRAIN SYSTEM, WHICH ULTIMATELY OUTFALLS INTO THE LITTLE PATUXENT RIVER. EVERY EFFORT WAS MADE TO CONSERVE AND ENHANCE THE DRAINAGE PATTERNS FROM PRE TO POST CONDITION.
- ESD STORMWATER REQUIREMENTS AND ACHIEVEMENT THE STORM WATER MANAGEMENT REQUIREMENT FOR THIS 5.51 ACRE SITE AND 2.78 ACRE LIMIT OF DISTURBANCE IS MET THROUGH THE IMPLEMENTATION OF ESD TO THE MEP. THE EXISTING SITE IMPERVIOUS IS GREATER THAN 40%. THEREFORE. THE PROJECT IS SUBJECT TO REDEVELOPMENT REQUIREMENTS. THE TARGET RAINFALL AMOUNT FOR WATER QUALITY TREATMENT OF A REDEVELOPMENT PROJECT WITH NO INCREASE IN IMPERVIOUS AREA IS A PE OF 1.0 INCH. THERE IS AN INCREASE IN IMPERVIOUS AREA OF 0.57 ACRES, THEREFORE THE PROJECT IS SUBJECT TO NEW DEVELOPMENT REQUIREMENTS. THE TARGET RAINFALL AMOUNT FOR WATER QUALITY TREATMENT OF A REDEVELOPMENT PROJECT WITH 0.57 ACRES INCREASE IN IMPERVIOUS AREA IS A PE OF 1.8 INCH. THE REQUIRED ESDV OF 5,749 CF, AND A FILTER AREA (AF) OF 2,070 S.F. IS ACHIEVED BY USING THE MICRO-SCALE PRACTICE OF MICRO-BIORETENTION (M-6) AND AN UNDERGROUND SAND FILTER (F-2).
- PROPOSED STORMWATER MANAGEMENT PRACTICES WITHIN THE LIMIT OF DISTURBANCE WILL USE THE MICRO-SCALE PRACTICE OF MICRO-BIORETENTION (M-6) AND UNDERGROUND SAND FILTER (F-2). ALL THE MICRO-BIORETENTION (M-6) FACILITIES WILL HAVE OVERFLOW INLETS TO CONVEY PEAK FLOWS TO THE SITE OUTFALL AT A NON-EROSIVE VELOCITY. THE ESD MICRO-SCALE PRACTICES ARE DESIGNED TO MEET THE STORM WATER MANAGEMENT REQUIREMENT OF ESD TO THE MEP.
- 4. CONSTRUCTION ON SITE WILL BE DONE TO MINIMIZE THE EFFECT OF SEDIMENT EROSION ON THE SITE. THE BUILDING AND TRUCK CORRAL AREAS WILL BE CONSTRUCTED, WITH PERIMETER SEDIMENT AND EROSION CONTROL MEASURES. INLET PROTECTION WILL PROTECT THE EXISTING STORM DRAIN SYSTEM FROM BEING FILLED WITH FINE SOIL PARTICI FS.

LOT	r / PARCEL #			STREET ADDRESS	5	
P	PAR A / 130 8106 STAYTON DRIVE					
PERI	MIT INFORMA	τιοι	N CHA	ART		
RECORD	PLAT: PB 17 Pg 68					
		GRID	ZONING	TAX MAP NO. 48	ELECT. DIST. 6TH	CENSUS TRAC 606901
DADOEL		GRID				
PARCEL 130	DEED REFERENCE (L/F) 15893/00438		CE-CLI			
130 PARI	15893/00438					77

PROPOSED PARKING	62*		
*A PARKING NEEDS ANALYSIS WILL BE SUBMITTED WITH THE SITE DEV	ELOPMENT PLAN.		
<b>APPROVED: DEPARTMENT</b>	OF PLANNIN	G AND ZONING	
Ph. C.			
Chil Columbia		11.27.18	
CHIEF, DEVELOPMENT ENGINEERING DIVISION $$		DATE	
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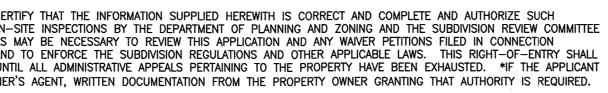
# ENVIRONMENTAL CONCEPT PLAN WAREHOUSE EXPANSION 8106 STAYTON DRIVE HOWARD COUNTY, MARYLAND

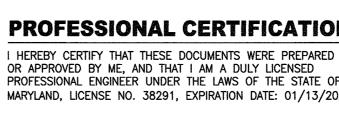
LOCATION PLAN SCALE: 1"=200'

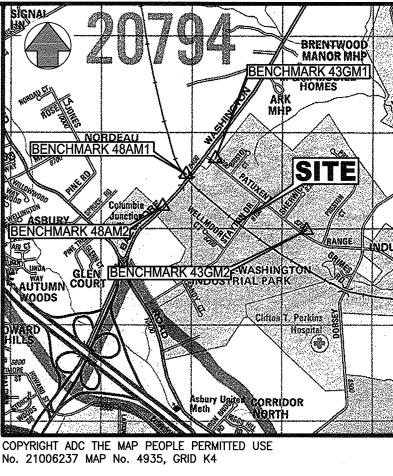
## **GRAPHIC SCALE**

( IN FEET ) 1 INCH = 200 FT.









**VICINITY MAP** 1"=2,000'

#### **BENCHMARKS**

BM 43GM1

3/4" REBAR AT CORNER OF PATUXTENT RANGE ROAD AND US ROUTE NAD 83 NAVD 88 ELEV. 82.923

<u>BM 48AM1</u>

CONCRETE MONUMENT AT US ROUTE 1 EAST OF RAILROAD CROSSING NAD 83 NAVD 88 ELEV. 86.468

#### SITE ANALYSIS DATA CHART

1. TOTAL PROJECT AREA	5.51 ACRES (240,016 SF)
2. AREA OF PLAN SUBMISSION	2.78 ACRES (121,202 SF)
3. LIMIT OF DISTURBANCE	2.78 ACRES (121,202 SF)
4. PRESENT ZONING	CE-CLI
5. PROPOSED USE	WAREHOUSE
6. PROPOSED FLOOR SPACE	38,331 SF
7. TOTAL FLOOR SPACE	110,478 SF
8. TOTAL PARKING SPACES REQUIRED 9. PARKING SPACES PROVIDED	(SEE CHART THIS SHEET)
9. PARKING SPACES PROVIDED	(SEE CHART THIS SHEET)
10. DPZ FILE REFERENCES	SDP-74-070, SDP-70-022
11. SANITARY SEWER / WATER SERVICE	PUBLIC/PUBLIC
12. TAX MAP/ PARCEL NO.	48 / 130
13. ELECTION DISTRICT	6
14. COUNCIL DISTRICT	3
15. EX. STEEP SLOPES >15%	0.21 Ac.
16. EX. IMPERVIOUS AREA (ON-SITE)	3.51 Ac.
17. EX. OPEN SPACE (ON-SITE)	2.00 Ac. 4.08 Ac.
18. PR. IMPERVIOUS (ON-SITE)	
19. PR. OPEN SPACE (ON-SITE)	1.43 Ac.
20. EX. IMPERVIOUS AREA (W/IN LOD)	1.28 Ac.
21.EX. OPEN SPACE (W/IN LOD)	1.12 Ac.
22. PR. IMPERVIOUS AREA (W/IN LOD)	
23. PR. OPEN SPACE (W/IN LOD)	0.55 Ac.
24. EXISTING FOREST ON-SITE	0.00 Ac.
25. ERODIBLE SOILS ON–SITE (GuB) 26. EXISTING WETLANDS AND BUFFER AREA	0.00 Ac.
27. EXISTING WEILANDS AND BUFFER AREA 27. EXISTING FLOODPLAIN & BUFFER AREA	0.00 Ac. 0.00 Ac.
27. EXISTING FLOODPLAIN & DUFFER AREA	0.00 AC.
QUEET MINEV	
SHEET INDEX	
1. COVER SHEET	
2. EXISTING CONDITIONS & NATURAL RESOURCES MAP	

ISTING CONDITIONS & NATURAL RESOURCES MAI

3. DEVELOPMENT CONCEPT PLAN 4. PROPOSED DRAINAGE AREA MAP

#### LEGEND

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EX. EDGE OF PAVEMENT EX. CURB AND GUTTER EX. CONCRETE WALK EX. C/L ROAD EX. ADJACENT PROPERTY LINE EX. PROPERTY LINE EX. RIGHT OF WAY EX. UTILITY EASEMENT EX. BUILDING/STRUCTURE EX. 2' CONTOUR EX. 10' CONTOUR \_\_\_\_\_

EX. ZONING

### ECP-1

MORRIS & RITCHIE ASSOCIATES, INC. ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS 1220-C EAST JOPPA ROAD, SUITE 505 TOWSON, MARYLAND 21286 (410) 821-1690 FAX (410) 821-1748 Copyright 2018 Morris & Ritchie Associates, Inc. ENVIRONMENTAL CONCEPT PLAN WAREHOUSE EXPANSION **8106 STAYTON DRIVE COVER SHEET** TAX MAP 48 ~ GRID 1 ~ PARCEL 130 ~ ZONING CE-CLI TAX ASSESSMENT DISTRICT 81 ~ 6th ELECTION DISTRICT 8106 STAYTON DRIVE, HOWARD COUNTY, MARYLAND DATE REVISIONS 19637X0 JOB NO.: SCALE: AS SHOWN DATE: 11/13/2018 DRAWN BY: DESIGN BY:

#### DATUM

DESIGN & DRAWING BASED ON MARYLAND COORDINATE SYSTEM: HORIZONTAL NAD 83 (1991) VERTICAL NAVD 88

**OWNER/DEVELOPER** 

SW PROPERTIES LLP 8106 STAYTON DRIVE JESSUP, MD 20794 ATTN: ALVIN LEE PHONE: (213)-944-4448

#### **PROFESSIONAL CERTIFICATION**

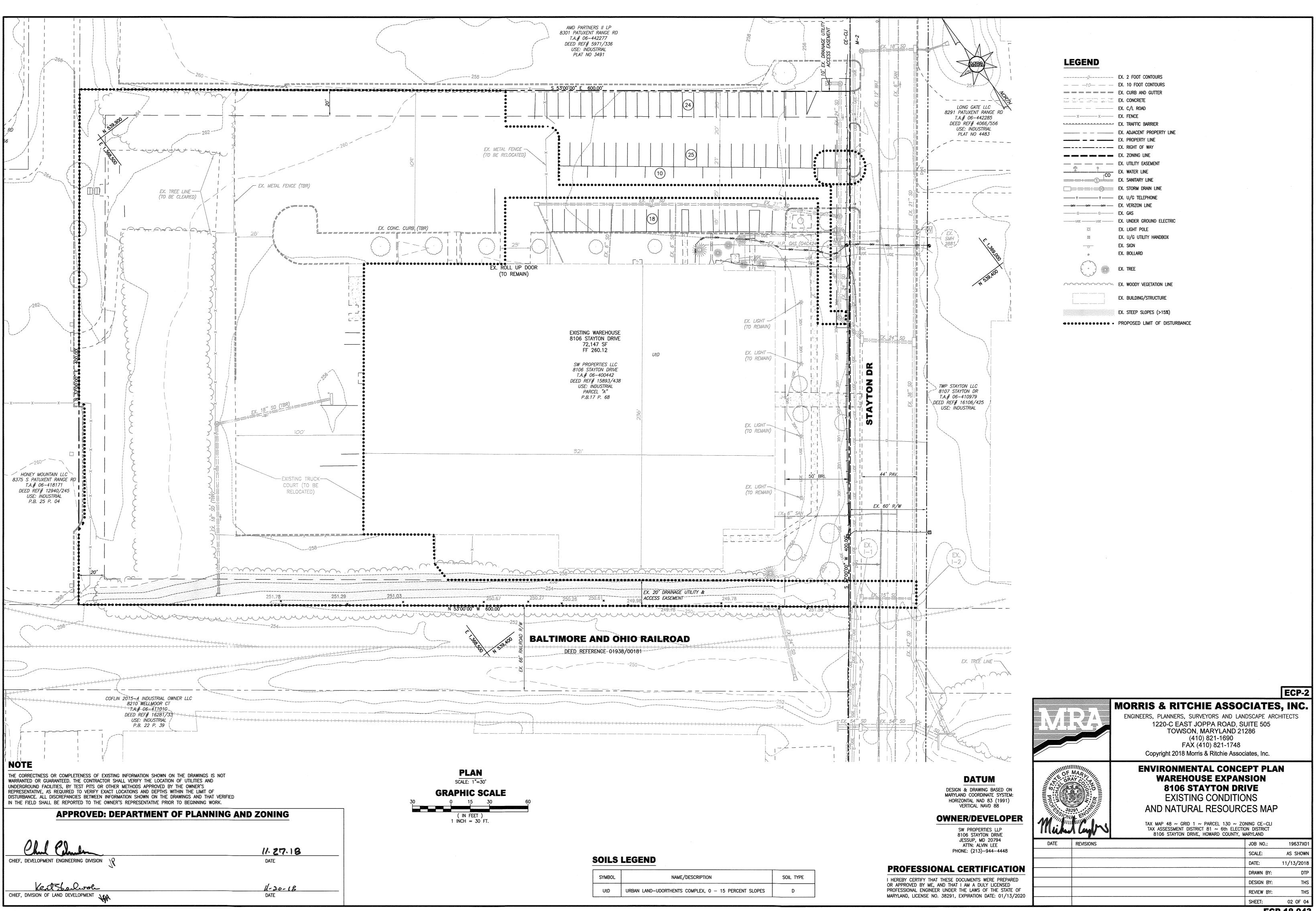
OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38291, EXPIRATION DATE: 01/13/2020

#### ECP-18-043

01 OF 04

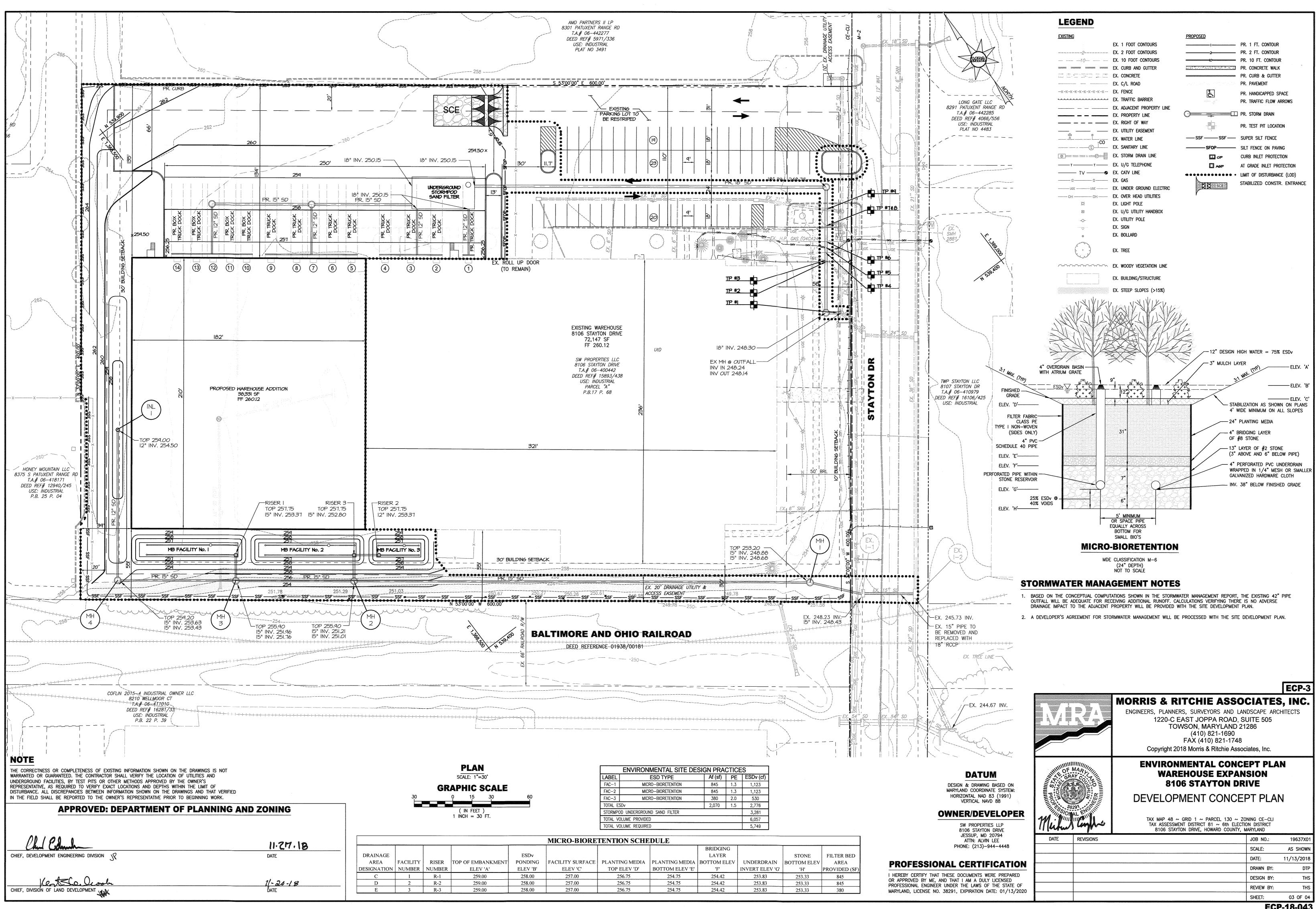
REVIEW BY:

SHEET:



SYMBOL	NAME/DESCRIPTION	SOIL TYPE	
UtD	URBAN LAND-UDORTHENTS COMPLEX, 0 - 15 PERCENT SLOPES	D	

_	·	Sec. 1		1.1.1.1.1			
	E	C	P	-1	8	-0	4



ECP-18-043

