

SITE DEVELOPMENT PLAN STELLA GLEN II - LOTS 8, 12 & 13

(SFD RESIDENTIAL)
HOWARD COUNTY, MARYLAND

GENERAL NOTES

1. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY STANDARDS AND SPECIFICATIONS IF APPLICABLE.
3. THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 - VERIZON TELEPHONE COMPANY: 1-800-257-7777
 - MISS UTILITY: 1-410-954-6281
 - HOWARD COUNTY BUREAU OF UTILITIES: 410-313-2366
 - AT&T CABLE LOCATION: 410-954-6283
 - B.G. & E. CO. CONTRACTOR SERVICES: 410-850-4620
 - B.G. & E. CO. UNDERGROUND DAMAGE CONTROL: 410-787-4620
 - STATE HIGHWAY ADMINISTRATION: 410-531-5533
4. THIS SITE DEVELOPMENT PLAN IS SUBJECT TO THE FOLLOWING DPZ FILES: ECP-13-024, CONT. #24-3108, WP-13-138, SP-13-009, F-14-049, SDP-14-070, CONT. 14-4794, APPROXIMATE DATED 01/13/15, F-15-105, WP-15-138, SP-15-009, F-16-049, SDP-16-070, CONT. 16-4794, APPROXIMATE DATED 01/13/16, F-17-105, WP-17-138, SP-17-009, F-18-049, SDP-18-070, CONT. 18-4794, APPROXIMATE DATED 01/13/17, F-19-105, WP-19-138, SP-19-009, F-20-049, SDP-20-070, CONT. 20-4794, APPROXIMATE DATED 01/13/18, F-21-105, WP-21-138, SP-21-009, F-22-049, SDP-22-070, CONT. 22-4794, APPROXIMATE DATED 01/13/19, F-23-105, WP-23-138, SP-23-009, F-24-049, SDP-24-070, CONT. 24-4794, APPROXIMATE DATED 01/13/20, F-25-105, WP-25-138, SP-25-009, F-26-049, SDP-26-070, CONT. 26-4794, APPROXIMATE DATED 01/13/21, F-27-105, WP-27-138, SP-27-009, F-28-049, SDP-28-070, CONT. 28-4794, APPROXIMATE DATED 01/13/22, F-29-105, WP-29-138, SP-29-009, F-30-049, SDP-30-070, CONT. 30-4794, APPROXIMATE DATED 01/13/23, F-31-105, WP-31-138, SP-31-009, F-32-049, SDP-32-070, CONT. 32-4794, APPROXIMATE DATED 01/13/24, F-33-105, WP-33-138, SP-33-009, F-34-049, SDP-34-070, CONT. 34-4794, APPROXIMATE DATED 01/13/25, F-35-105, WP-35-138, SP-35-009, F-36-049, SDP-36-070, CONT. 36-4794, APPROXIMATE DATED 01/13/26, F-37-105, WP-37-138, SP-37-009, F-38-049, SDP-38-070, CONT. 38-4794, APPROXIMATE DATED 01/13/27, F-39-105, WP-39-138, SP-39-009, F-40-049, SDP-40-070, CONT. 40-4794, APPROXIMATE DATED 01/13/28, F-41-105, WP-41-138, SP-41-009, F-42-049, SDP-42-070, CONT. 42-4794, APPROXIMATE DATED 01/13/29, F-43-105, WP-43-138, SP-43-009, F-44-049, SDP-44-070, CONT. 44-4794, APPROXIMATE DATED 01/13/30, F-45-105, WP-45-138, SP-45-009, F-46-049, SDP-46-070, CONT. 46-4794, APPROXIMATE DATED 01/13/31, F-47-105, WP-47-138, SP-47-009, F-48-049, SDP-48-070, CONT. 48-4794, APPROXIMATE DATED 01/13/32, F-49-105, WP-49-138, SP-49-009, F-50-049, SDP-50-070, CONT. 50-4794, APPROXIMATE DATED 01/13/33, F-51-105, WP-51-138, SP-51-009, F-52-049, SDP-52-070, CONT. 52-4794, APPROXIMATE DATED 01/13/34, F-53-105, WP-53-138, SP-53-009, F-54-049, SDP-54-070, CONT. 54-4794, APPROXIMATE DATED 01/13/35, F-55-105, WP-55-138, SP-55-009, F-56-049, SDP-56-070, CONT. 56-4794, APPROXIMATE DATED 01/13/36, F-57-105, WP-57-138, SP-57-009, F-58-049, SDP-58-070, CONT. 58-4794, APPROXIMATE DATED 01/13/37, F-59-105, WP-59-138, SP-59-009, F-60-049, SDP-60-070, CONT. 60-4794, APPROXIMATE DATED 01/13/38, F-61-105, WP-61-138, SP-61-009, F-62-049, SDP-62-070, CONT. 62-4794, APPROXIMATE DATED 01/13/39, F-63-105, WP-63-138, SP-63-009, F-64-049, SDP-64-070, CONT. 64-4794, APPROXIMATE DATED 01/13/40, F-65-105, WP-65-138, SP-65-009, F-66-049, SDP-66-070, CONT. 66-4794, APPROXIMATE DATED 01/13/41, F-67-105, WP-67-138, SP-67-009, F-68-049, SDP-68-070, CONT. 68-4794, APPROXIMATE DATED 01/13/42, F-69-105, WP-69-138, SP-69-009, F-70-049, SDP-70-070, CONT. 70-4794, APPROXIMATE DATED 01/13/43, F-71-105, WP-71-138, SP-71-009, F-72-049, SDP-72-070, CONT. 72-4794, APPROXIMATE DATED 01/13/44, F-73-105, WP-73-138, SP-73-009, F-74-049, SDP-74-070, CONT. 74-4794, APPROXIMATE DATED 01/13/45, F-75-105, WP-75-138, SP-75-009, F-76-049, SDP-76-070, CONT. 76-4794, APPROXIMATE DATED 01/13/46, F-77-105, WP-77-138, SP-77-009, F-78-049, SDP-78-070, CONT. 78-4794, APPROXIMATE DATED 01/13/47, F-79-105, WP-79-138, SP-79-009, F-80-049, SDP-80-070, CONT. 80-4794, APPROXIMATE DATED 01/13/48, F-81-105, WP-81-138, SP-81-009, F-82-049, SDP-82-070, CONT. 82-4794, APPROXIMATE DATED 01/13/49, F-83-105, WP-83-138, SP-83-009, F-84-049, SDP-84-070, CONT. 84-4794, APPROXIMATE DATED 01/13/50, F-85-105, WP-85-138, SP-85-009, F-86-049, SDP-86-070, CONT. 86-4794, APPROXIMATE DATED 01/13/51, F-87-105, WP-87-138, SP-87-009, F-88-049, SDP-88-070, CONT. 88-4794, APPROXIMATE DATED 01/13/52, F-89-105, WP-89-138, SP-89-009, F-90-049, SDP-90-070, CONT. 90-4794, APPROXIMATE DATED 01/13/53, F-91-105, WP-91-138, SP-91-009, F-92-049, SDP-92-070, CONT. 92-4794, APPROXIMATE DATED 01/13/54, F-93-105, WP-93-138, SP-93-009, F-94-049, SDP-94-070, CONT. 94-4794, APPROXIMATE DATED 01/13/55, F-95-105, WP-95-138, SP-95-009, F-96-049, SDP-96-070, CONT. 96-4794, APPROXIMATE DATED 01/13/56, F-97-105, WP-97-138, SP-97-009, F-98-049, SDP-98-070, CONT. 98-4794, APPROXIMATE DATED 01/13/57, F-99-105, WP-99-138, SP-99-009, F-100-049, SDP-100-070, CONT. 100-4794, APPROXIMATE DATED 01/13/58, F-101-105, WP-101-138, SP-101-009, F-102-049, SDP-102-070, CONT. 102-4794, APPROXIMATE DATED 01/13/59, F-103-105, WP-103-138, SP-103-009, F-104-049, SDP-104-070, CONT. 104-4794, APPROXIMATE DATED 01/13/60, F-105-105, WP-105-138, SP-105-009, F-106-049, SDP-106-070, CONT. 106-4794, APPROXIMATE DATED 01/13/61, F-107-105, WP-107-138, SP-107-009, F-108-049, SDP-108-070, CONT. 108-4794, APPROXIMATE DATED 01/13/62, F-109-105, WP-109-138, SP-109-009, F-110-049, SDP-110-070, CONT. 110-4794, APPROXIMATE DATED 01/13/63, F-111-105, WP-111-138, SP-111-009, F-112-049, SDP-112-070, CONT. 112-4794, APPROXIMATE DATED 01/13/64, F-113-105, WP-113-138, SP-113-009, F-114-049, SDP-114-070, CONT. 114-4794, APPROXIMATE DATED 01/13/65, F-115-105, WP-115-138, SP-115-009, F-116-049, SDP-116-070, CONT. 116-4794, APPROXIMATE DATED 01/13/66, F-117-105, WP-117-138, SP-117-009, F-118-049, SDP-118-070, CONT. 118-4794, APPROXIMATE DATED 01/13/67, F-119-105, WP-119-138, SP-119-009, F-120-049, SDP-120-070, CONT. 120-4794, APPROXIMATE DATED 01/13/68, F-121-105, WP-121-138, SP-121-009, F-122-049, SDP-122-070, CONT. 122-4794, APPROXIMATE DATED 01/13/69, F-123-105, WP-123-138, SP-123-009, F-124-049, SDP-124-070, CONT. 124-4794, APPROXIMATE DATED 01/13/70, F-125-105, WP-125-138, SP-125-009, F-126-049, SDP-126-070, CONT. 126-4794, APPROXIMATE DATED 01/13/71, F-127-105, WP-127-138, SP-127-009, F-128-049, SDP-128-070, CONT. 128-4794, APPROXIMATE DATED 01/13/72, F-129-105, WP-129-138, SP-129-009, F-130-049, SDP-130-070, CONT. 130-4794, APPROXIMATE DATED 01/13/73, F-131-105, WP-131-138, SP-131-009, F-132-049, SDP-132-070, CONT. 132-4794, APPROXIMATE DATED 01/13/74, F-133-105, WP-133-138, SP-133-009, F-134-049, SDP-134-070, CONT. 134-4794, APPROXIMATE DATED 01/13/75, F-135-105, WP-135-138, SP-135-009, F-136-049, SDP-136-070, CONT. 136-4794, APPROXIMATE DATED 01/13/76, F-137-105, WP-137-138, SP-137-009, F-138-049, SDP-138-070, CONT. 138-4794, APPROXIMATE DATED 01/13/77, F-139-105, WP-139-138, SP-139-009, F-140-049, SDP-140-070, CONT. 140-4794, APPROXIMATE DATED 01/13/78, F-141-105, WP-141-138, SP-141-009, F-142-049, SDP-142-070, CONT. 142-4794, APPROXIMATE DATED 01/13/79, F-143-105, WP-143-138, SP-143-009, F-144-049, SDP-144-070, CONT. 144-4794, APPROXIMATE DATED 01/13/80, F-145-105, WP-145-138, SP-145-009, F-146-049, SDP-146-070, CONT. 146-4794, APPROXIMATE DATED 01/13/81, F-147-105, WP-147-138, SP-147-009, F-148-049, SDP-148-070, CONT. 148-4794, APPROXIMATE DATED 01/13/82, F-149-105, WP-149-138, SP-149-009, F-150-049, SDP-150-070, CONT. 150-4794, APPROXIMATE DATED 01/13/83, F-151-105, WP-151-138, SP-151-009, F-152-049, SDP-152-070, CONT. 152-4794, APPROXIMATE DATED 01/13/84, F-153-105, WP-153-138, SP-153-009, F-154-049, SDP-154-070, CONT. 154-4794, APPROXIMATE DATED 01/13/85, F-155-105, WP-155-138, SP-155-009, F-156-049, SDP-156-070, CONT. 156-4794, APPROXIMATE DATED 01/13/86, F-157-105, WP-157-138, SP-157-009, F-158-049, SDP-158-070, CONT. 158-4794, APPROXIMATE DATED 01/13/87, F-159-105, WP-159-138, SP-159-009, F-160-049, SDP-160-070, CONT. 160-4794, APPROXIMATE DATED 01/13/88, F-161-105, WP-161-138, SP-161-009, F-162-049, SDP-162-070, CONT. 162-4794, APPROXIMATE DATED 01/13/89, F-163-105, WP-163-138, SP-163-009, F-164-049, SDP-164-070, CONT. 164-4794, APPROXIMATE DATED 01/13/90, F-165-105, WP-165-138, SP-165-009, F-166-049, SDP-166-070, CONT. 166-4794, APPROXIMATE DATED 01/13/91, F-167-105, WP-167-138, SP-167-009, F-168-049, SDP-168-070, CONT. 168-4794, APPROXIMATE DATED 01/13/92, F-169-105, WP-169-138, SP-169-009, F-170-049, SDP-170-070, CONT. 170-4794, APPROXIMATE DATED 01/13/93, F-171-105, WP-171-138, SP-171-009, F-172-049, SDP-172-070, CONT. 172-4794, APPROXIMATE DATED 01/13/94, F-173-105, WP-173-138, SP-173-009, F-174-049, SDP-174-070, CONT. 174-4794, APPROXIMATE DATED 01/13/95, F-175-105, WP-175-138, SP-175-009, F-176-049, SDP-176-070, CONT. 176-4794, APPROXIMATE DATED 01/13/96, F-177-105, WP-177-138, SP-177-009, F-178-049, SDP-178-070, CONT. 178-4794, APPROXIMATE DATED 01/13/97, F-179-105, WP-179-138, SP-179-009, F-180-049, SDP-180-070, CONT. 180-4794, APPROXIMATE DATED 01/13/98, F-181-105, WP-181-138, SP-181-009, F-182-049, SDP-182-070, CONT. 182-4794, APPROXIMATE DATED 01/13/99, F-183-105, WP-183-138, SP-183-009, F-184-049, SDP-184-070, CONT. 184-4794, APPROXIMATE DATED 01/13/100, F-185-105, WP-185-138, SP-185-009, F-186-049, SDP-186-070, CONT. 186-4794, APPROXIMATE DATED 01/13/101, F-187-105, WP-187-138, SP-187-009, F-188-049, SDP-188-070, CONT. 188-4794, APPROXIMATE DATED 01/13/102, F-189-105, WP-189-138, SP-189-009, F-190-049, SDP-190-070, CONT. 190-4794, APPROXIMATE DATED 01/13/103, F-191-105, WP-191-138, SP-191-009, F-192-049, SDP-192-070, CONT. 192-4794, APPROXIMATE DATED 01/13/104, F-193-105, WP-193-138, SP-193-009, F-194-049, SDP-194-070, CONT. 194-4794, APPROXIMATE DATED 01/13/105, F-195-105, WP-195-138, SP-195-009, F-196-049, SDP-196-070, CONT. 196-4794, APPROXIMATE DATED 01/13/106, F-197-105, WP-197-138, SP-197-009, F-198-049, SDP-198-070, CONT. 198-4794, APPROXIMATE DATED 01/13/107, F-199-105, WP-199-138, SP-199-009, F-200-049, SDP-200-070, CONT. 200-4794, APPROXIMATE DATED 01/13/108, F-201-105, WP-201-138, SP-201-009, F-202-049, SDP-202-070, CONT. 202-4794, APPROXIMATE DATED 01/13/109, F-203-105, WP-203-138, SP-203-009, F-204-049, SDP-204-070, CONT. 204-4794, APPROXIMATE DATED 01/13/110, F-205-105, WP-205-138, SP-205-009, F-206-049, SDP-206-070, CONT. 206-4794, APPROXIMATE DATED 01/13/111, F-207-105, WP-207-138, SP-207-009, F-208-049, SDP-208-070, CONT. 208-4794, APPROXIMATE DATED 01/13/112, F-209-105, WP-209-138, SP-209-009, F-210-049, SDP-210-070, CONT. 210-4794, APPROXIMATE DATED 01/13/113, F-211-105, WP-211-138, SP-211-009, F-212-049, SDP-212-070, CONT. 212-4794, APPROXIMATE DATED 01/13/114, F-213-105, WP-213-138, SP-213-009, F-214-049, SDP-214-070, CONT. 214-4794, APPROXIMATE DATED 01/13/115, F-215-105, WP-215-138, SP-215-009, F-216-049, SDP-216-070, CONT. 216-4794, APPROXIMATE DATED 01/13/116, F-217-105, WP-217-138, SP-217-009, F-218-049, SDP-218-070, CONT. 218-4794, APPROXIMATE DATED 01/13/117, F-219-105, WP-219-138, SP-219-009, F-220-049, SDP-220-070, CONT. 220-4794, APPROXIMATE DATED 01/13/118, F-221-105, WP-221-138, SP-221-009, F-222-049, SDP-222-070, CONT. 222-4794, APPROXIMATE DATED 01/13/119, F-223-105, WP-223-138, SP-223-009, F-224-049, SDP-224-070, CONT. 224-4794, APPROXIMATE DATED 01/13/120, F-225-105, WP-225-138, SP-225-009, F-226-049, SDP-226-070, CONT. 226-4794, APPROXIMATE DATED 01/13/121, F-227-105, WP-227-138, SP-227-009, F-228-049, SDP-228-070, CONT. 228-4794, APPROXIMATE DATED 01/13/122, F-229-105, WP-229-138, SP-229-009, F-230-049, SDP-230-070, CONT. 230-4794, APPROXIMATE DATED 01/13/123, F-231-105, WP-231-138, SP-231-009, F-232-049, SDP-232-070, CONT. 232-4794, APPROXIMATE DATED 01/13/124, F-233-105, WP-233-138, SP-233-009, F-234-049, SDP-234-070, CONT. 234-4794, APPROXIMATE DATED 01/13/125, F-235-105, WP-235-138, SP-235-009, F-236-049, SDP-236-070, CONT. 236-4794, APPROXIMATE DATED 01/13/126, F-237-105, WP-237-138, SP-237-009, F-238-049, SDP-238-070, CONT. 238-4794, APPROXIMATE DATED 01/13/127, F-239-105, WP-239-138, SP-239-009, F-240-049, SDP-240-070, CONT. 240-4794, APPROXIMATE DATED 01/13/128, F-241-105, WP-241-138, SP-241-009, F-242-049, SDP-242-070, CONT. 242-4794, APPROXIMATE DATED 01/13/129, F-243-105, WP-243-138, SP-243-009, F-244-049, SDP-244-070, CONT. 244-4794, APPROXIMATE DATED 01/13/130, F-245-105, WP-245-138, SP-245-009, F-246-049, SDP-246-070, CONT. 246-4794, APPROXIMATE DATED 01/13/131, F-247-105, WP-247-138, SP-247-009, F-248-049, SDP-248-070, CONT. 248-4794, APPROXIMATE DATED 01/13/132, F-249-105, WP-249-138, SP-249-009, F-250-049, SDP-250-070, CONT. 250-4794, APPROXIMATE DATED 01/13/133, F-251-105, WP-251-138, SP-251-009, F-252-049, SDP-252-070, CONT. 252-4794, APPROXIMATE DATED 01/13/134, F-253-105, WP-253-138, SP-253-009, F-254-049, SDP-254-070, CONT. 254-4794, APPROXIMATE DATED 01/13/135, F-255-105, WP-255-138, SP-255-009, F-256-049, SDP-256-070, CONT. 256-4794, APPROXIMATE DATED 01/13/136, F-257-105, WP-257-138, SP-257-009, F-258-049, SDP-258-070, CONT. 258-4794, APPROXIMATE DATED 01/13/137, F-259-105, WP-259-138, SP-259-009, F-260-049, SDP-260-070, CONT. 260-4794, APPROXIMATE DATED 01/13/138, F-261-105, WP-261-138, SP-261-009, F-262-049, SDP-262-070, CONT. 262-4794, APPROXIMATE DATED 01/13/139, F-263-105, WP-263-138, SP-263-009, F-264-049, SDP-264-070, CONT. 264-4794, APPROXIMATE DATED 01/13/140, F-265-105, WP-265-138, SP-265-009, F-266-049, SDP-266-070, CONT. 266-4794, APPROXIMATE DATED 01/13/141, 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DETAIL E-8-1 STANDARD INLET PROTECTION

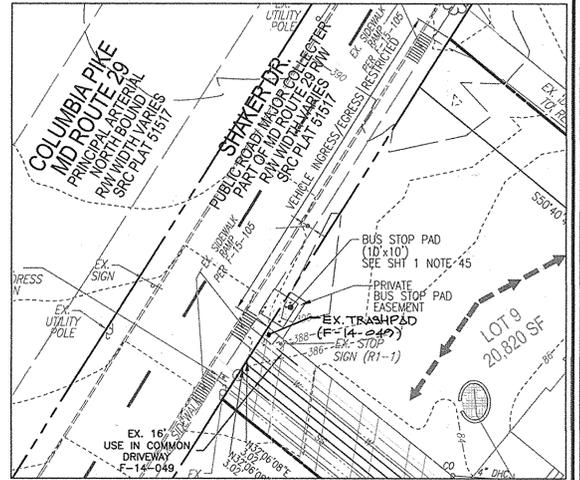
CONSTRUCTION SPECIFICATIONS

- USE ROCK CURB FROM GEOTECH AS SPECIFIED IN SECTION H-1 MATERIALS.
- CONCRETE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE WOTCH ELEVATION.
- USE TYPE 1.5 SAND FILL UNDER 1/4" SIEVE AND 3/4" SAND FILL UNDER 20" SIEVE. PLACE 18" MIN. OF SAND ON TOP OF CURB AND 18" MIN. OF SAND UNDER THE INLET. PLACE 18" MIN. OF SAND UNDER THE INLET. PLACE 18" MIN. OF SAND UNDER THE INLET. PLACE 18" MIN. OF SAND UNDER THE INLET.

APPROVED: *John P. Patten* 3/15/16

STELLA 2 (F15-105)
STORMWATER TEST PITS

TEST PIT	SURFACE ELEVATION	BORING DEPTH	DUG	CONDITION
TP1	369.1	9.5	9.5	DRY
TP2	387.9	8.3	8.3	DRY
TP3	389.9	10	10	DRY
TP4	379.2	7.5	7.5	DRY



NOTE: EITHER PERMANENT OR TEMPORARY STABILIZATION IS TO BE APPLIED IN THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR REGARDLESS OF DAYS/DATES IN THE STANDARD SEDIMENT CONTROL NOTES AND/OR SEEDING SPECIFICATIONS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

5-9-16
5-10-16
5-11-16

SOILS LEGEND
SOIL MAP# 24

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	SILT/SAND RATIO	EROSION POTENTIAL
GFB	GLADSTONE-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES	B	0.20	NO	NO
GUB	GLENNVILLE-URBAN LAND-UDORMENTS COMPLEX, 0 TO 8 PERCENT SLOPES	C	0.37	YES	YES
UW	UDORMENTS, HIGHWAY, 0 TO 85 PERCENT SLOPES	-	-	-	-

NOTE: HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

GRADING PLAN
SCALE: 1"=30'

NOTE: - SILT FENCE IS TO BE REPLACED WITH SUPER SILT FENCE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.
- SILT FENCE SHALL BE CURLED UPHILL. NO MORE THAN 35 FEET APART.
- DOUBLE ROWS OF SUPER SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

LEGEND:

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVING
- EXISTING WETLANDS
- EXISTING WETLAND BUFFER
- EX. VARIABLE WIDTH PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR LOTS 1-7 (PLAT 22836)
- PROP. VARIABLE WIDTH PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR LOTS 9-17
- EX. 30' PUBLIC SEWER, WATER, & UTILITY EASEMENT (PLAT 22836)
- EX. 20' PRIVATE DRAINAGE & UTILITY EASEMENT (PLAT 22836)
- EX. PUBLIC SEWER & UTILITY EASEMENT PLAT MOR 9987
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING MAILBOX
- EXISTING SIGN
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY LINE
- EXISTING CLEANOUT
- EXISTING FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING TRENCH
- EXISTING TREES
- EXISTING FENCE
- PROPOSED STORMDRAIN
- PROPOSED SIDEWALK
- EXISTING TRENCH
- EXISTING CONTOUR
- SOILS
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED TEST PIT
- SILT FENCE
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
GRADING & SOIL EROSION AND SEDIMENT CONTROL PLAN
AND SOILS MAP

STELLA GLEN II - LOTS 8, 12 & 13

TAX MAP: 36 GRID: 19
6TH ELECTION DISTRICT
DPZ REF'S: SEE GENERAL NOTE #4 ON COVER SHEET

ZONED: R-20
PARCEL: 346
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET
ELLICOTT CITY, MD 21043
TEL: 410-461-7666
FAX: 410-461-8961

OWNER: MARY THERESA PFAU
3675 PARK AVE., SUITE 301
ELLICOTT CITY, MD 21043
(410) 480-0023

DEVELOPER: TRINITY QUALITY HOMES, INC.
3675 PARK AVE., SUITE 301
ELLICOTT CITY, MD 21043
(410) 480-0023

DESIGN BY: RHW/EDS
DRAWN BY: JMR/MDL
CHECKED BY: RHW
DATE: FEBRUARY 2016
SCALE: AS SHOWN
W.O. NO.: 14-37

PROFESSIONAL CERTIFICATE:
I HEREBY CERTIFY THAT THESE DOCUMENTS 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. 16193 EXPIRATION DATE: 09-27-2016

2 OF 4

APPENDIX B.4.C SPECIFICATIONS FOR MICRO-BIOTRETION, RAIN GARDEN, LANDSCAPE INFILTRATION & INFILTRATION BERMS

- 1. MATERIAL SPECIFICATIONS**
THE ALLOWABLE MATERIALS TO BE USED IN THESE PRACTICES ARE DETAILED IN TABLE B.4.1.
- 2. FILTERING MEDIA OR PLANTING SOIL**
THE SOIL SHALL BE A UNIFORM MIX. FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DOWNED WITHIN THE MICRO-BIOTRETION PRACTICE THAT WOULD BE HARMFUL TO PLANT GROWTH OR PROVIDE AN OBSTACLE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, OR OTHER NOXIOUS WEEDS AS SPECIFIED UNDER COMAR 15.08.01.05.
THE PLANTING SOIL SHALL BE TESTED AND SHALL MEET THE FOLLOWING CRITERIA:
• SOIL COMPONENT - LOAMY SAND OR SANDY LOAM (USDA SOIL TEXTURAL CLASSIFICATION)
• ORGANIC CONTENT - MINIMUM 10% BY DRY WEIGHT (ASTM D 2974). IN GENERAL, THIS CAN BE MET WITH A MIXTURE OF LOAMY SAND (60%-65%) AND COMPOST (35% TO 40%) OR SANDY LOAM (LOAM), COARSE SAND (20%), AND COMPOST (40%).
• CLAY CONTENT - MEDIA SHALL HAVE A CLAY CONTENT OF LESS THAN 5%.
• PH RANGE - SHOULD BE BETWEEN 5.5 - 7.0. AMENDMENTS (E.G., LIME, NON-SULFATE SULFUR) MAY BE MIXED IN TO THE SOIL TO INCREASE OR DECREASE PH.
THERE SHALL BE AT LEAST ONE SOIL TEST PER PROJECT. EACH TEST SHALL CONSIST OF BOTH THE STANDARD SOIL TEST FOR PH, AND ADDITIONAL TESTS OF ORGANIC MATTER, AND SOLUBLE SALTS. A TEXTURAL ANALYSIS IS REQUIRED FROM THE SITE STOCKPILED TOPSOIL. IF TOPSOIL IS IMPORTED, THEN A TEXTURAL ANALYSIS SHALL BE PERFORMED FOR EACH LOCATION WHERE THE TOPSOIL WAS EXCAVATED.

- 3. COMPACTION**
IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF BIOTRETION PRACTICES AND THE REQUIRED BACKFILL. WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL. IF PRACTICES ARE EXCAVATED USING LOADERS, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARCH TRACK EQUIPMENT, OR LIGHT EQUIPMENT WITH TURF TIRE TRES. USE OF EQUIPMENT WITH NARROW TRACKS OR NARROW TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH-PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION RESULTING IN REDUCED INFILTRATION RATES AND IS NOT ACCEPTABLE. COMPACTION WILL SIGNIFICANTLY CONTRIBUTE TO TRENCH FAILURE.
COMPACTION CAN BE ALLEVATED AT THE BASE OF THE BIOTRETION FACILITY BY USING A PRIMARY TILLING OPERATION SUCH AS CHESEL PLOW, RIPPER, OR SUBSOILER. THESE TILLING OPERATIONS ARE TO RESTRUCTURE THE SOIL PROFILE THROUGHOUT THE 12 INCH COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER. ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENOUGH TO REMOVE THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT.
ROTOTILL 2 TO 3 INCHES OF SAND INTO THE BASE OF THE BIOTRETION FACILITY BEFORE BACKFILLING THE OPTIONAL SAND LAYER. PUMP ANY PORED WATER BEFORE PREPARING (ROTOTILLING) BASE.
WHEN BACKFILLING THE TOPSOIL OVER THE SAND LAYER, FIRST PLACE 3 TO 4 INCHES OF TOPSOIL OVER THE SAND, THEN ROTOTILL THE SAND/TOPSOIL TO CREATE A GRADATION ZONE. BACKFILL THE REMAINDER OF THE TOPSOIL TO FINAL GRADE.

- 4. PLANT MATERIAL**
RECOMMENDED PLANT MATERIAL FOR MICRO-BIOTRETION PRACTICES CAN BE FOUND IN APPENDIX A, SECTION A.2.3.

- 5. PLANT INSTALLATION**
COMPOST IS A BETTER ORGANIC MATERIAL SOURCE, IS LESS LIKELY TO FLOAT, AND SHOULD BE PLACED IN THE INVERT AND OTHER LOW AREAS. MULCH SHOULD BE PLACED IN SURROUNDING TO A UNIFORM THICKNESS OF 2" TO 3". SHREDDED OR CHIPPED HARDWOOD MULCH IS THE ONLY ACCEPTED MULCH. PINE MULCH AND WOOD CHIPS WILL FLOAT AND MOVE TO THE PERIMETER OF THE BIOTRETION AREA DURING A STORM EVENT AND ARE NOT ACCEPTABLE. SHREDDED MULCH MUST BE WELL AGED (6 TO 12 MONTHS) FOR ACCEPTANCE.
ROOTSTOCK OF THE PLANT MATERIAL SHALL BE KEPT MOIST DURING TRANSPORT AND ON-SITE STORAGE. THE PLANT ROOT BALL SHOULD BE PLANTED 3/8" TO 1" FROM THE BALL TO ABOVE FINAL GROUND SURFACE. THE DIAMETER OF THE PLANTING PIT SHALL BE AT LEAST SIX INCHES LARGER THAN THE DIAMETER OF THE PLANTING BALL. SET AND MAINTAIN THE PLANT STRAIGHT DURING THE ENTIRE PLANTING PROCESS. THOROUGHLY WATER GROUND BED COVER AFTER INSTALLATION. TREES SHALL BE BRACED USING 2" BY 2" STAKES ONLY AS NECESSARY AND FOR THE FIRST GROWING SEASON ONLY. STAKES ARE TO BE EQUALLY SPACED ON THE OUTSIDE OF THE TREE BALL.
GRASSES AND LEGUME SEED SHOULD BE DRILLED INTO THE SOIL TO A DEPTH OF AT LEAST ONE INCH. GRASS AND LEGUME PLUGS SHALL BE PLANTED FOLLOWING THE NON-GRASS GROUND COVER PLANTING SPECIFICATIONS.

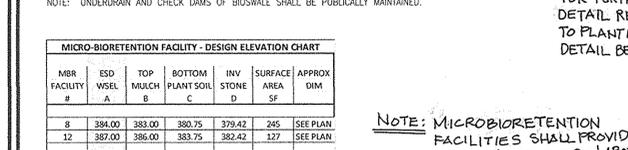
- 6. UNDERDRAINS**
UNDERDRAINS SHOULD MEET THE FOLLOWING CRITERIA:
• PIPE - SHOULD BE 4" TO 6" DIAMETER, SLOTTED OR PERFORATED RIGID PLASTIC PIPE (ASTM F756, TYPE PS 28, OR ASTM M-278) IN A GRAVEL LAYER. THE PERFORATED MATERIAL IS SLOTTED, 4" RIGID PIPE (E.G., PVC OF HOPE).
• PERFORATIONS - IF PERFORATED PIPE IS USED, PERFORATIONS SHOULD BE 3/8" DIAMETER LOCATED 6" ON CENTER WITH A MINIMUM OF FOUR HOLES PER ROW. PIPE SHALL BE WRAPPED WITH A 1/4" (NO. 4 OR 4A) GALVANIZED HARDWARE CLOTH.
• GRAVEL - THE GRAVEL LAYER (NO. 57 STONE PREFERRED) SHALL BE AT LEAST 3" THICK ABOVE AND BELOW THE UNDERDRAIN.
• THE MAIN COLLECTOR PIPE SHALL BE AT A MINIMUM 0.5% SLOPE.
• A RIGID, NON-PERFORATED OBSERVATION WELL MUST BE PROVIDED (ONE PER EVERY 1,000 SQUARE FEET) TO PROVIDE A CLEAN-OUT PORT AND MONITOR PERFORMANCE OF THE FILTER.
• A 4" LAYER OF PEA GRAVEL (1/8" TO 3/8" STONE) SHALL BE LOCATED BETWEEN THE FILTER MEDIA AND UNDERDRAIN TO PREVENT MIGRATION OF FINES IN TO THE UNDERDRAIN. THIS LAYER MAY BE CONSIDERED PART OF THE FILTER BED WHEN BED THICKNESS EXCEEDS 24".
THIS MAIN COLLECTOR PIPE FOR UNDERDRAIN SYSTEMS SHALL BE CONSTRUCTED AT A MINIMUM SLOPE OF 0.5%. OBSERVATION WELLS AND/OR CLEAN-OUT PIPES MUST BE PROVIDED (ONE MINIMUM PER EVERY 1,000 SQUARE FEET OF SURFACE AREA).

- 7. MISCELLANEOUS**
THESE PRACTICES MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

- OPERATION AND MAINTENANCE SCHEDULE FOR M-6, M-7 AND M-8 AREAS**
- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
 - SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DEFICIENT STAKES AND WIRES.
 - MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
 - SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.
 - FILTER MATERIAL MUST BE REPLACED WHEN WATER REMAINS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 24 HOURS FOLLOWING A 1- OR 2-YEAR STORM EVENT OR MORE THAN 48 HOURS FOLLOWING A 10-YEAR STORM EVENT.
- NOTE: UNDERDRAIN AND CHECK DAMS OF BIOSWALE SHALL BE PUBLICLY MAINTAINED.

MICRO-BIOTRETION FACILITY - DESIGN ELEVATION CHART

MBR FACILITY #	ESD WSEL	TOP MULCH	BOTTOM PLANT	INV. STONE	SURFACE AREA SF	APPROX DIM
8	384.00	383.00	380.75	379.42	245	SEE PLAN
12	387.00	386.00	383.75	382.42	127	SEE PLAN



RAIN GARDEN LOT 12 PLANTING SCHEDULE

QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
10	CONVALARIJA MAJALIS 'LICK-OF-THE-VALLEY'	1 OT.	12" O.C.
10	ACORUS GRAMINEUS 'O20N' GOLDEN VAREGATED SWEET FLAG	1 OT.	12" O.C.

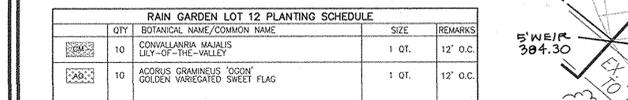
127 SF X 75% X .0229 STEMS PER SQUARE FOOT = 2 PLANTS REQUIRED
2 PROVIDED



RAIN GARDEN LOT 8 PLANTING SCHEDULE

QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
10	CONVALARIJA MAJALIS 'LICK-OF-THE-VALLEY'	1 OT.	12" O.C.
10	ACORUS GRAMINEUS 'O20N' GOLDEN VAREGATED SWEET FLAG	1 OT.	12" O.C.

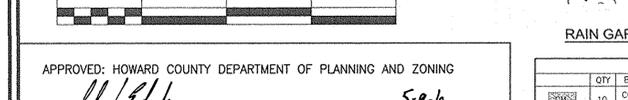
245 SF X 75% X .0229 STEMS PER SQUARE FOOT = 4 PLANTS REQUIRED
4 PROVIDED



RAIN GARDEN LOT 13 PLANTING SCHEDULE

QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
10	CONVALARIJA MAJALIS 'LICK-OF-THE-VALLEY'	1 OT.	12" O.C.
10	ACORUS GRAMINEUS 'O20N' GOLDEN VAREGATED SWEET FLAG	1 OT.	12" O.C.

245 SF X 75% X .0229 STEMS PER SQUARE FOOT = 4 PLANTS REQUIRED
4 PROVIDED



RAIN GARDEN LOT 13 PLANTING SCHEDULE

QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
10	CONVALARIJA MAJALIS 'LICK-OF-THE-VALLEY'	1 OT.	12" O.C.
10	ACORUS GRAMINEUS 'O20N' GOLDEN VAREGATED SWEET FLAG	1 OT.	12" O.C.

245 SF X 75% X .0229 STEMS PER SQUARE FOOT = 4 PLANTS REQUIRED
4 PROVIDED

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 5-9-16

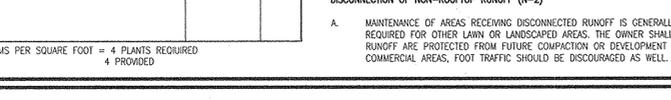
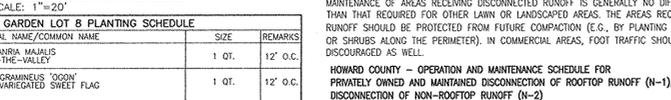
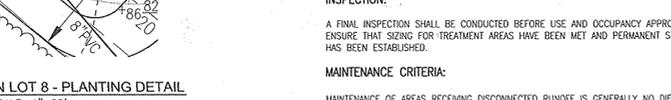
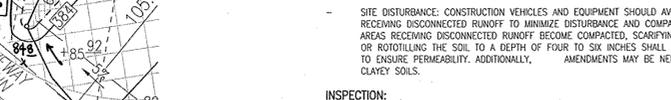
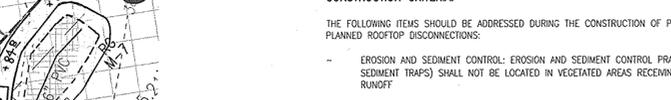
CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 5-10-16

DIRECTOR DATE: 5-11-16

Appendix B.4. Construction Specifications for Environmental Site Design Practices

Table B.4.1 Materials Specifications for Micro-Biotretion, Rain Gardens & Landscape Infiltration-

Material	Specification	Size	Notes
Planting soil	see Appendix A, Table A.1	n/a	plantings are site-specific
Plastic pipe	loamy sand (60-65%) & compost (35-40%) or sandy loam (30%) & coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile	n/a	n/a	PE Type I nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underdrain pipes. Perforated pipe shall be wrapped with 1/4-inch galvanized hardware cloth.
Poured in place concrete (if required)	MSHA Mix No. 3; F _c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM A-615-40	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350 R/89; vertical loading (H-10 or H-20); allowable horizontal loading (based on soil pressures); and analysis of potential cracking.
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

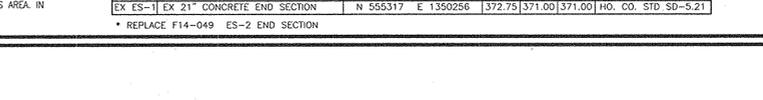
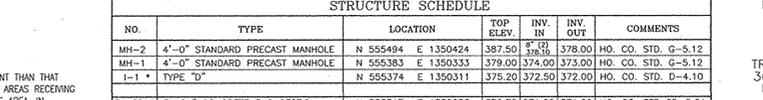
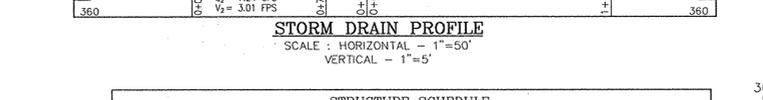
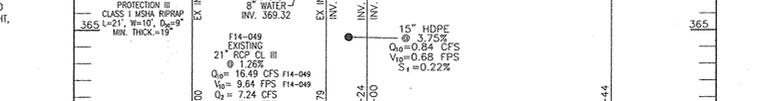
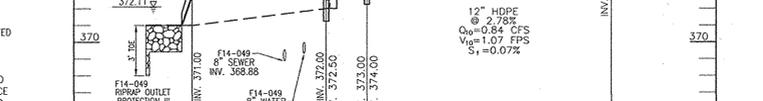
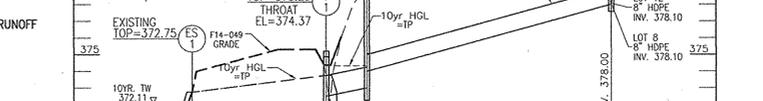
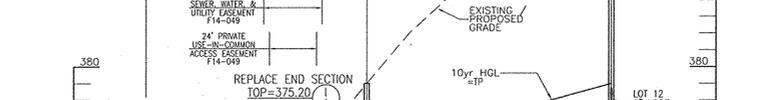
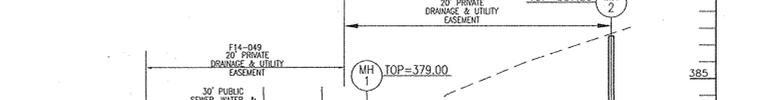
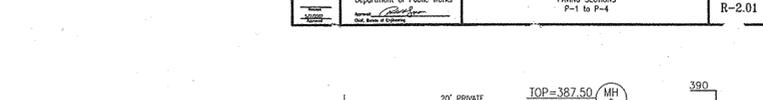
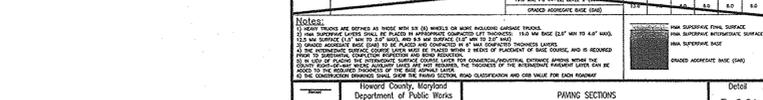
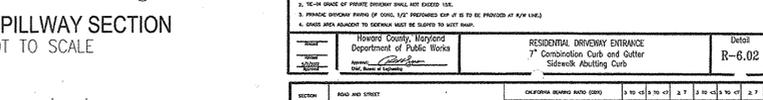
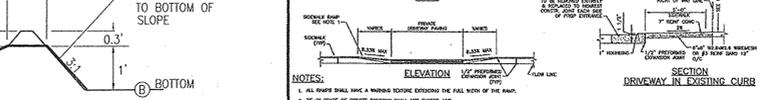
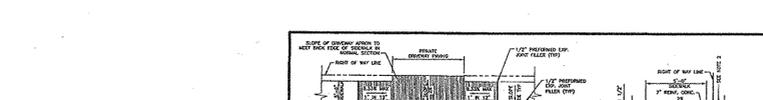
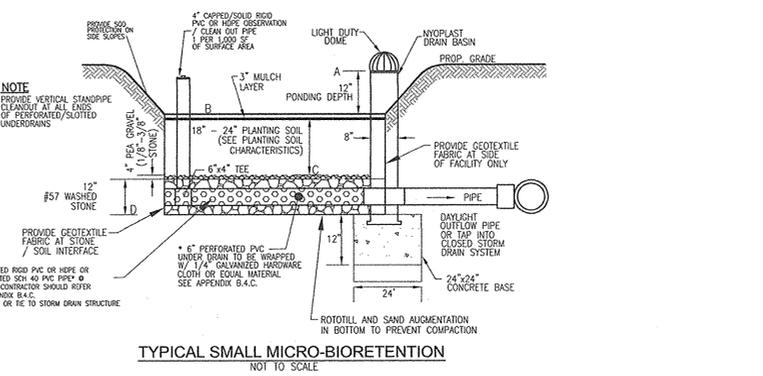


APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

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CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 5-10-16

DIRECTOR DATE: 5-11-16

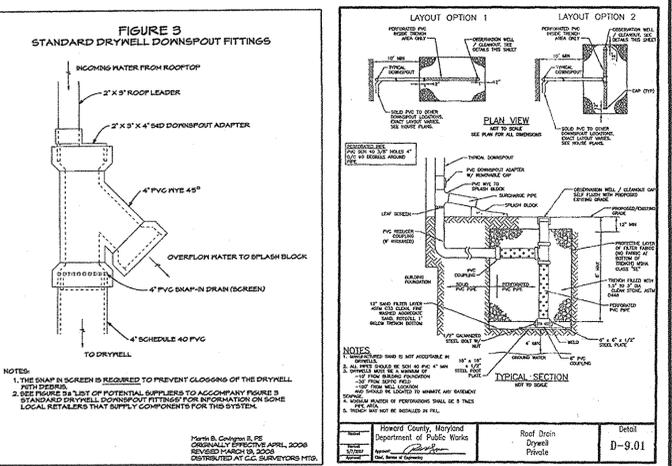


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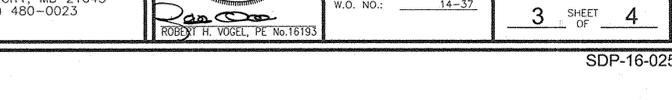
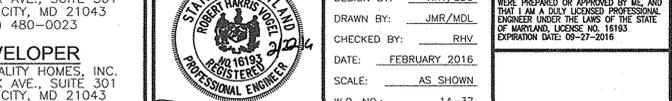
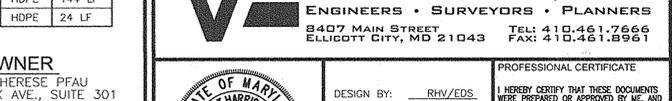
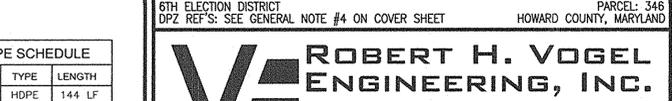
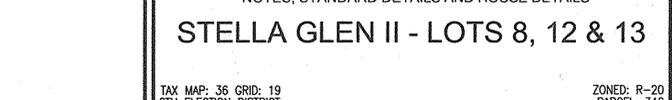
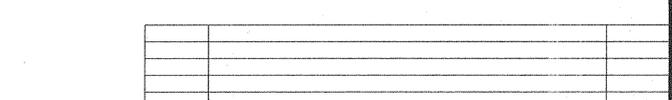
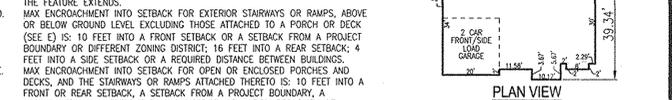
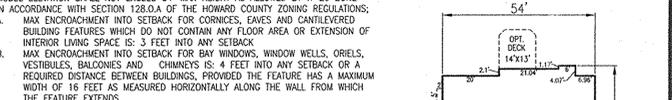
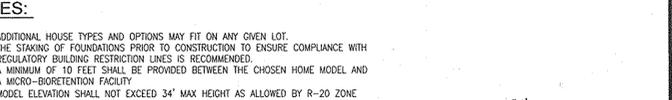
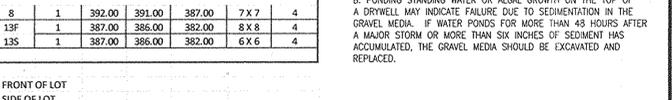
CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 5-10-16

DIRECTOR DATE: 5-11-16



ON-LOT DRYWELL - DESIGN ELEVATION CHART

DW #	NUMBER OF DWS	PROP OVER	TOP STONE	INV. STONE	SURFACE SIZE FT X FT	DEPTH FT
8	1	392.00	391.00	387.00	7 X 7	4
13F	1	387.00	386.00	382.00	8 X 8	4
13S	1	387.00	386.00	382.00	6 X 6	4



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**HOWARD SOIL CONSERVATION DISTRICT
STANDARD SEDIMENT CONTROL NOTES**

- A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (DOD), 410-313-1855 AFTER THE FUTURE LOU AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 16 HOURS NOTICE IS REQUIRED AT THE FOLLOWING STAGES:
 - PRIOR TO THE START OF EARTH DISTURBANCE.
 - UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
 - PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.
 - PRIOR TO THE REMOVAL OF MODIFICATION OF SEDIMENT CONTROL STRUCTURES.

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

DEFINITION	PURPOSE	CONDITIONS WHERE PRACTICE APPLIES
TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.	TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.	EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.
GENERAL USE	SEED MIXTURES	GENERAL USE
1. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3) AND BASED ON THE SOIL AND SPRING SEEDING DATES. IF THE GROUND IS FROZEN, INTERSEED MIXTURES, INCLUDING SEEDS OF WINTER RYE, SHALL BE USED.	A. SEED MIXTURES	1. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3) AND BASED ON THE SOIL AND SPRING SEEDING DATES. IF THE GROUND IS FROZEN, INTERSEED MIXTURES, INCLUDING SEEDS OF WINTER RYE, SHALL BE USED.
2. ADDITIONAL PLANNING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN HOWARD COUNTY TECHNICAL FIELD OFFICE, SECTION 342 - CRITICAL AREA PLANNING.	B. ADDITIONAL PLANNING SPECIFICATIONS	2. ADDITIONAL PLANNING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN HOWARD COUNTY TECHNICAL FIELD OFFICE, SECTION 342 - CRITICAL AREA PLANNING.

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY SEEDING SUMMARY

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY SEEDING SUMMARY

TOPSOILING SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:

- A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPLICABLE AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSTRATES AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CONCRETES, STONES, CLAY FRAGMENTS, DRAGL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER.
- TOPSOIL MUST BE FREE OF NOxious WEEDS OR PLANT PARTS SUCH AS BERBERIS, GRASS, GRASS SEEDS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPLICABLE AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
- EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
- UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SOODING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL TOPSOIL. SOIL PREPARATION AND TOPSOILING ARE TO BE PERFORMED IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POOLS.
- TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MILDLY CONDITION WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETERMINED TO PROTECT GROUNDING AND SEEDING PREPARATION.

SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

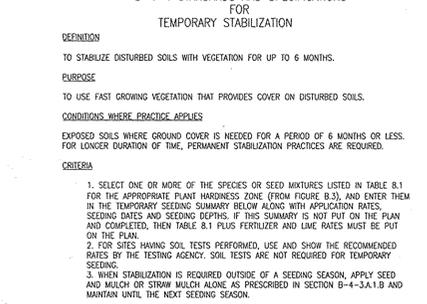
- SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FINE FLOTTING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZERS IF APPROVED BY THE APPLICABLE AUTHORITY. FERTILIZERS MUST BE APPLIED TO THE APPLICABLE LIMS AND MUST BEAR THE SITE, TRADE NAME OR TRADEMARK AND THE DATE OF APPLICATION.
- LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME) MAY BE SUBSTITUTED EXCEPT WHEN HYDROXYGENOUS WHICH CONTAINS AT LEAST 50 PERCENT ANHYDRUS (OR 80 PERCENT WATER) LIME. LIME SHOULD BE APPLIED TO THE SURFACE TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
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B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY SEEDING SUMMARY

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



DETAIL E-3 SUPER SILT FENCE



CONSTRUCTION SPECIFICATIONS

CONSTRUCTION SPECIFICATIONS