

**GENERAL NOTES**

- 1.) THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- 2.) THE SUBJECT PROPERTY IS ZONED PGCC PER THE 10-6-2013 COMPREHENSIVE ZONING PLAN.
- 3.) BOUNDARY IS BASED ON RECORD PLAT NO. 24373-24375.
- 4.) THE EXISTING TOPOGRAPHY SHOWN ON THESE LOTS IS BASED ON MASS GRADING AS SHOWN ON APPROVED F-10-086 ROAD CONSTRUCTION PLANS.
- 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. 116B AND 17AB WERE USED FOR THIS PROJECT.
- 6.) WATER IS PUBLIC. THE CONTRACT NUMBER IS 24-4672-D.
- 7.) SEWER IS PUBLIC. THE CONTRACT NUMBER IS 24-4672-D.
- 8.) THIS PROJECT IS LOCATED WITHIN THE METROPOLITAN DISTRICT. THE DRAINAGE AREA IS THE LITTLE PATUXENT.
- 9.) EXISTING UTILITIES SHOWN ARE BASED ON CONTRACT DRAWINGS, AERIAL, AND SOME FIELD SURVEYED LOCATIONS.
- 10.) THERE ARE NO WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, 100-YEAR FLOODPLAIN OR 25% OR GREATER STEEP SLOPES THAT ARE AT LEAST 20,000 S.F. OF CONTIGUOUS AREA LOCATED ON THESE LOTS.
- 11.) TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO BURIAL GROUNDS, CEMETERIES OR HISTORIC STRUCTURES LOCATED ON THESE LOTS.
- 12.) STORMWATER MANAGEMENT FOR THESE LOTS WAS PREVIOUSLY PROVIDED UNDER F-10-086. THE REARS OF LOTS 21-24 ARE TREATED BY DRY SWALE #4. THE REARS OF LOTS 25-29 ARE TREATED BY DRY SWALE #5. THE REARS OF LOTS 103-105 ARE TREATED BY DRY WELLS, THE FRONTS OF LOTS 103-105 AND ALL OF LOTS 107-108 ARE TREATED IN DRY SWALE #1. LOT 106 IS TREATED BY A SHEET-FLOW TO BUFFER CREDIT WITH THE UTILIZATION OF A LEVEL SPREADER. ALL OTHER AREAS ARE TREATED VIA THE REGIONAL SWM POND CONSTRUCTED UNDER SDP-95-121. THIS PROJECT IS NOT SUBJECT TO ESD TO THE MEP.
- 13.) DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - A) WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE).
  - B) SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN.).
  - C) GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE & MIN. 45' TURNING RADIUS.
  - D) STRUCTURES/CULVERTS/BRIDGES - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOAD)
  - E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
  - G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- 14.) FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.03.
- 15.) STREET TREE LANDSCAPING WAS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL UNDER F-10-086. FINANCIAL SURETY WAS POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT. THE STREET TREE ARE TO BE PLANTED UNDER THIS SDP.
- INTERNAL LANDSCAPING FOR THESE SINGLE FAMILY ATTACHED LOTS AND PERIMETER LANDSCAPING (SIDE YARDS TO ROADS) IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL AND SHOWN ON THE CERTIFIED LANDSCAPE PLAN WITHIN THIS SITE DEVELOPMENT PLAN SET. FINANCIAL SURETY SHALL BE POSTED AS PART OF THE GRADING PERMIT.
- 16.) THE REQUIREMENT OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION FOR THESE LOTS WAS PROVIDED UNDER F-10-084.
- 17.) THIS SUBDIVISION IS SUBJECT TO SECTION 18.122B OF THE HOWARD COUNTY CODE. PUBLIC WATER AND/OR SEWER SERVICE HAS BEEN GRANTED UNDER THE TERMS AND PROVISIONS, THEREOF, EFFECTIVE JUNE 5, 2017 ON WHICH DATE DEVELOPER AGREEMENT #F10086/24-4672-D WAS FILED AND ACCEPTED.
- 18.) THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, THE ZONING REGULATIONS EFFECTIVE OCTOBER 6, 2013, AND THE TURF VALLEY RESIDENTIAL SUBDISTRICT FDP, SECOND AMENDMENT, PER SECTION 126(H)(1) OF THE ZONING REGULATIONS, PLANNING BOARD APPROVAL OF THIS SITE DEVELOPMENT PLAN IS REQUIRED.
- 19.) PRIOR TO GRADING PERMIT APPLICATION, THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 16.129 OF THE HOWARD COUNTY CODE.
- 20.) ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDER'S EXPENSE.
- 21.) IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, WINDOW WELLS, ORIELS, VESTIBULES, BALCONIES AND CHIMNEYS MAY ENDOACH 4 FEET INTO ANY SETBACK OR REQUIRED DISTANCE BETWEEN BUILDINGS PROVIDED THE FEATURE HAS A MAXIMUM WIDTH OF 16 FEET. EXTERIOR STAIRWAYS OR RAMPS, ABOVE OR BELOW GROUND LEVEL (EXCLUDING THOSE ATTACHED TO A PORCH OR DECK) MAY ENDOACH 10 FEET INTO A FRONT SETBACK OR A SETBACK FROM A PROJECT BOUNDARY. 16 FEET INTO A REAR SETBACK, 4 FEET INTO A SIDE SETBACK OR REQUIRED DISTANCE BETWEEN BUILDINGS. OPEN OR ENCLOSED PORCHES OR DECKS AND THE STAIRWAYS OR RAMPS ATTACHED THERETO MAY ENDOACH 10 FEET INTO A FRONT OR REAR SETBACK, SETBACK FROM A PROJECT BOUNDARY OR A REQUIRED DISTANCE BETWEEN BUILDINGS.
- 22.) THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 23.) THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

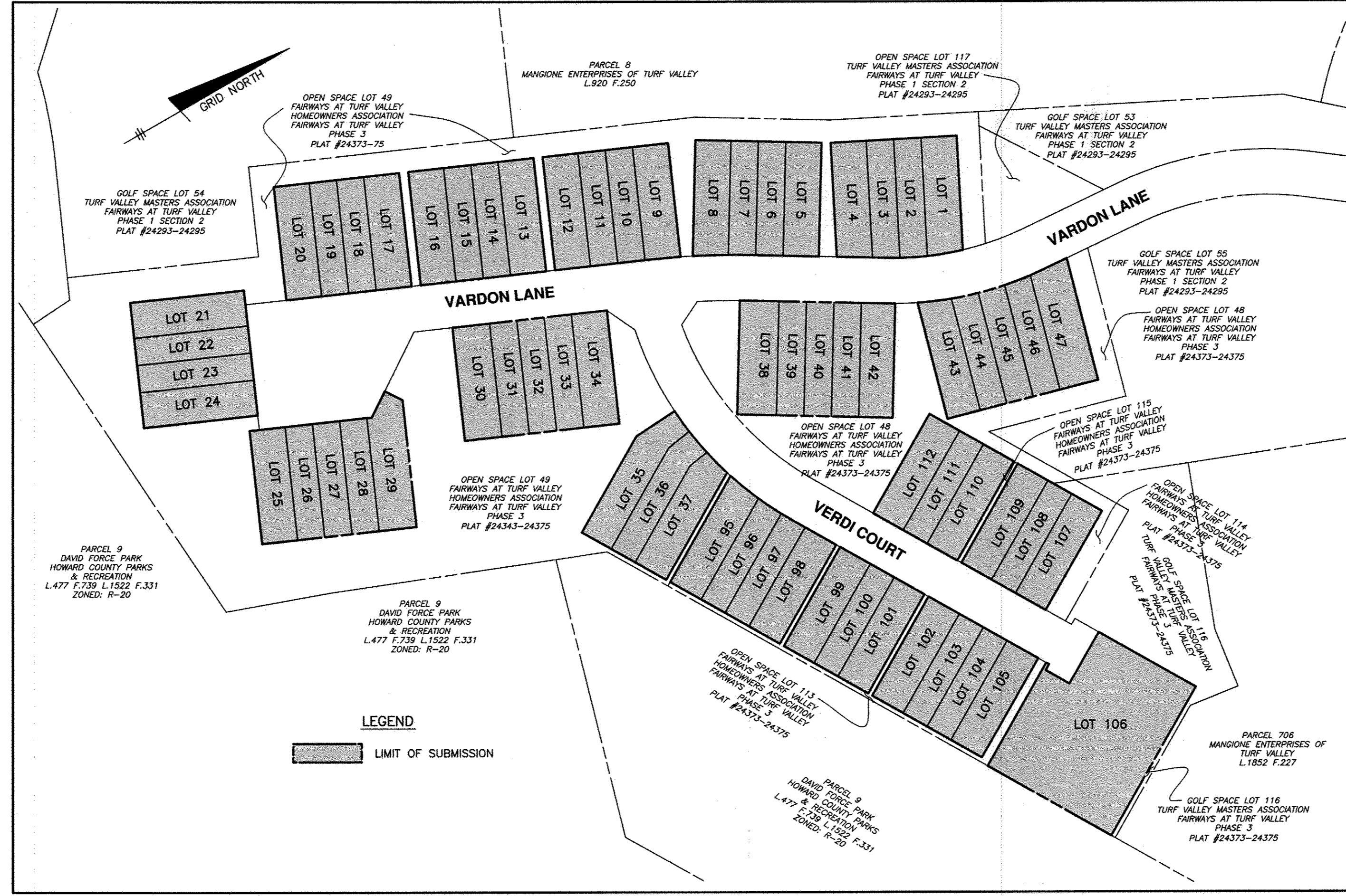
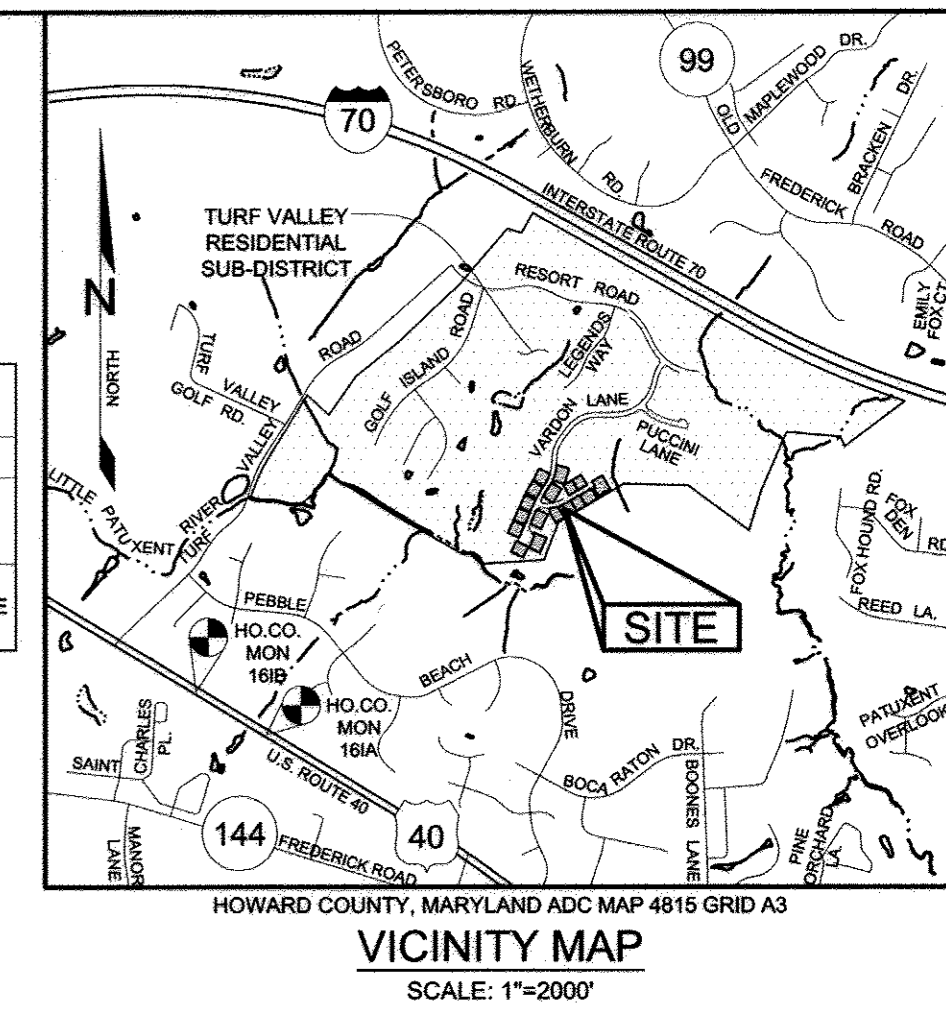
# RESIDENTIAL SITE DEVELOPMENT PLAN

## FAIRWAYS AT TURF VALLEY

### PHASE 3

#### LOTS 1 thru 47 AND 95 thru 112

BENCHMARKS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
16IB	590,475.2538	1,344,753.9350	469.892	11.8' SOUTHWEST OF WBL RT. 40, 20.8' WEST OF PK HALL IN SHOULDER, 66.4' SOUTH OF LAST POST IN GUARDRAIL
17AB	598,435.249	1,348,615.2482	508.469	SE OF INTERSECTION OF RTE. 99 AND WETHERBURN ROAD, 14.8' WEST OF FENCE POST, 35' NE OF MANHOLE

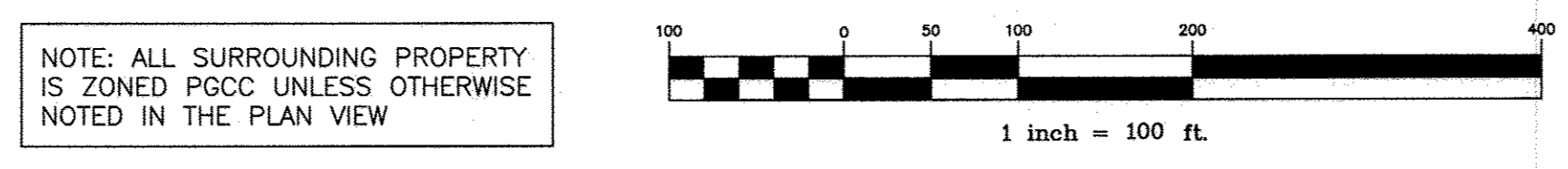


ADDRESS CHART			
LOT	STREET ADDRESS	LOT	STREET ADDRESS
1	2710 VARDON LANE	25	2759 VARDON LANE
2	2712 VARDON LANE	26	2757 VARDON LANE
3	2714 VARDON LANE	27	2755 VARDON LANE
4	2716 VARDON LANE	28	2753 VARDON LANE
5	2720 VARDON LANE	29	2751 VARDON LANE
6	2722 VARDON LANE	30	2749 VARDON LANE
7	2724 VARDON LANE	31	2747 VARDON LANE
8	2726 VARDON LANE	32	2745 VARDON LANE
9	2730 VARDON LANE	33	2743 VARDON LANE
10	2732 VARDON LANE	34	2741 VARDON LANE
11	2734 VARDON LANE	35	2739 VARDON LANE
12	2736 VARDON LANE	36	2737 VARDON LANE
13	2740 VARDON LANE	37	2735 VARDON LANE
14	2742 VARDON LANE	38	2733 VARDON LANE
15	2744 VARDON LANE	39	2731 VARDON LANE
16	2746 VARDON LANE	40	2729 VARDON LANE
17	2750 VARDON LANE	41	2727 VARDON LANE
18	2752 VARDON LANE	42	2725 VARDON LANE
19	2754 VARDON LANE	43	2723 VARDON LANE
20	2756 VARDON LANE	44	2721 VARDON LANE
21	2760 VARDON LANE	45	2719 VARDON LANE
22	2762 VARDON LANE	46	2717 VARDON LANE
23	2764 VARDON LANE	47	2715 VARDON LANE
24	2766 VARDON LANE		
		95	10418 VERDI COURT
		96	10420 VERDI COURT
		97	10422 VERDI COURT
		98	10424 VERDI COURT
		99	10426 VERDI COURT
		100	10428 VERDI COURT
		101	10430 VERDI COURT
		102	10432 VERDI COURT
		103	10434 VERDI COURT
		104	10436 VERDI COURT
		105	10438 VERDI COURT
		106	10440 VERDI COURT
		107	10442 VERDI COURT
		108	10444 VERDI COURT
		109	10446 VERDI COURT
		110	10448 VERDI COURT
		111	10450 VERDI COURT
		112	10452 VERDI COURT

**SITE ANALYSIS DATA CHART**

- TOTAL PROJECT AREA (FAIRWAYS AT TURF VALLEY, PHASE 3) 13.64 acres
- AREA OF PLAN SUBMISSION (BUILDABLE LOTS ONLY) 7.06 acres
- LIMIT OF DISTURBED AREA 10.28 acres
- PRESENT ZONING: PGCC (RESIDENTIAL SUBDISTRICT)
- PROPOSED USE OF SITE: RESIDENTIAL - SINGLE FAMILY ATTACHED AND DETACHED
- FLOOR SPACE ON EACH LEVEL OF BLDG PER USE N/A
- TOTAL NUMBER OF UNITS ALLOWED AS SHOWN ON FINAL PLAT(S) 65
- TOTAL NUMBER OF UNITS PROPOSED 65
- MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE N/A
- NUMBER OF PARKING SPACES REQUIRED BY HO. CO. ZONING REGS AND/OR FDP CRITERIA 163 (65 UNITS x 2.5)
- NUMBER OF PARKING SPACES PROVIDED ONSITE (INCLUDES HANDICAPPED SPACES) PROVIDED UNDER F-10-086
- OPEN SPACE ON-SITE N/A
- AREA OF RECREATIONAL OPEN SPACE REQUIRED N/A  
AREA OF RECREATIONAL OPEN SPACE PROVIDED N/A
- BUILDING COVERAGE OF SITE 3.36 AC. } BASED ON GENERIC BOX  
PERCENTAGE OF GROSS AREA 48.4% }
- APPLICABLE DPZ FILE REFERENCES: F-07-158, F-10-084, F-10-086

SHEET INDEX	
SHEET	TITLE
1	TITLE SHEET
2-3	SITE DEVELOPMENT AND GRADING PLAN
4-5	LANDSCAPE PLAN
6-7	SEDIMENT & EROSION CONTROL PLAN
8	SEDIMENT & EROSION CONTROL NOTES
9	SEDIMENT & EROSION CONTROL DETAILS



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 09/07/2017  
[Signature]

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
[Signature] 11-29-17  
[Signature] 12-6-17  
[Signature] 12-7-17

**BULK REGULATIONS:**  
(per 2nd AMENDMENT TO THE TURF VALLEY, RESIDENTIAL SUBDISTRICT, FDP RECORDED AS PLAT NO. 20288-87)

PERMITTED USES: ALL USES AS PER ABOVE MENTIONED FDP  
PROPOSED USE: SINGLE FAMILY ATTACHED (SFA)  
PERMITTED HEIGHT: SINGLE FAMILY ATTACHED - 34 FEET  
OTHER - 34 FEET  
ACCESSORY STRUCTURES - 15 FEET

LOT COVERAGE: 60%  
MAXIMUM UNITS PER STRUCTURE (SFA): 8 UNITS  
MAXIMUM BUILDING LENGTH (SFA): 120 FEET  
MINIMUM LOT SIZE REQUIREMENTS (SFA): NONE  
MINIMUM LOT WIDTH AT BUILDING RESTRICTION LINE (SFA): NONE

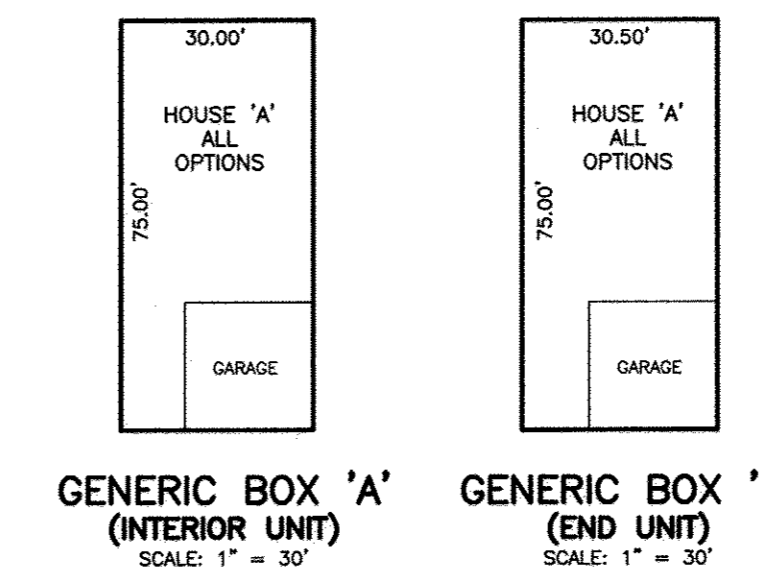
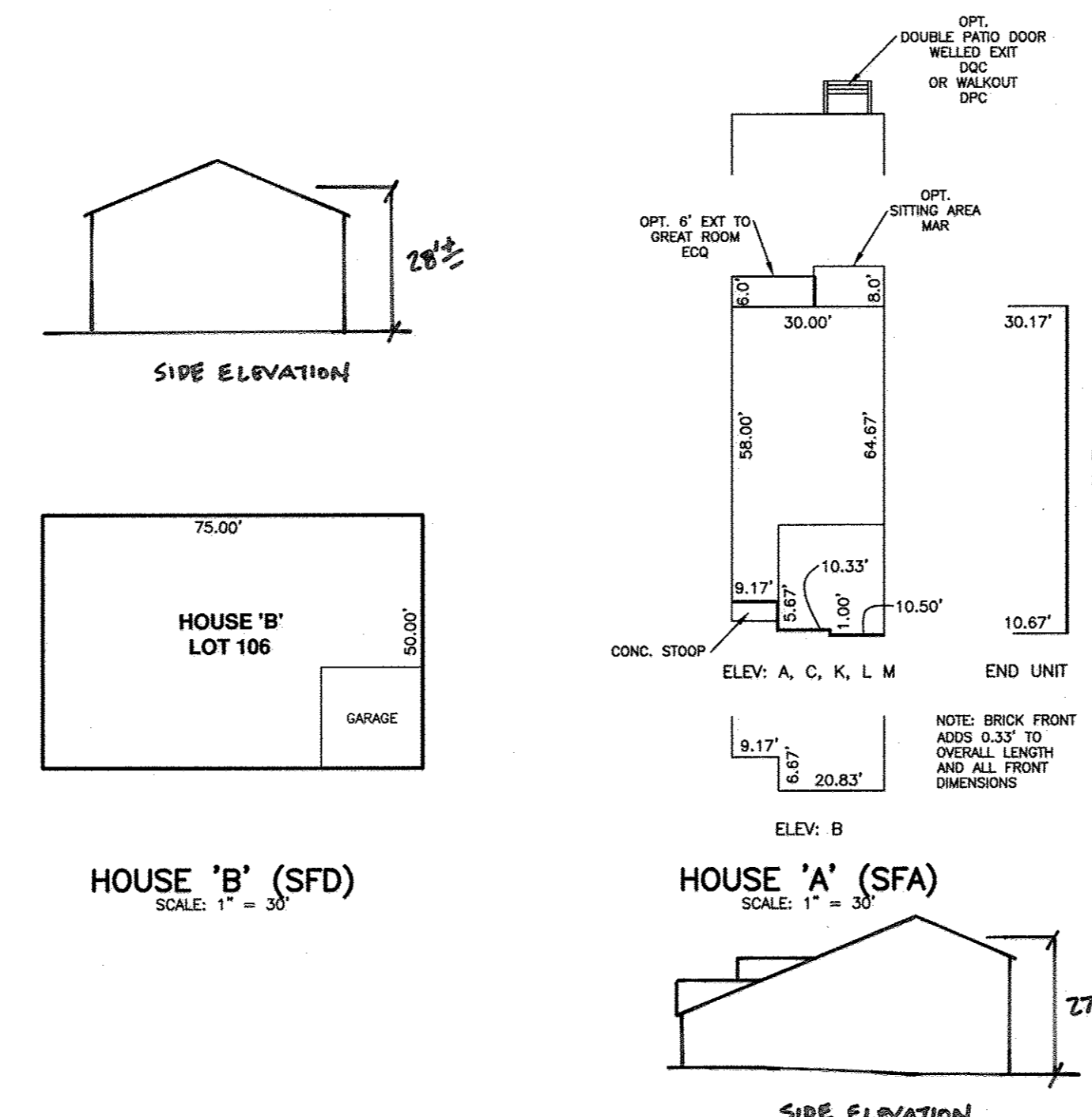
PERMITTED SETBACKS:  
FROM ARTERIAL ROADS:  
RESIDENTIAL STRUCTURES - 50 FEET  
ACCESSORY USES - 30 FEET

FROM COLLECTOR ROADS AND LOCAL STREETS:  
RESIDENTIAL STRUCTURES - 20 FEET  
ACCESSORY USES - 10 FEET

FROM NON-PGCC ADJACENT RESIDENTIAL DISTRICTS:  
RESIDENTIAL STRUCTURES - 30 FEET  
ACCESSORY USES - 10 FEET

FROM NON-PGCC ADJACENT NON-RESIDENTIAL DISTRICTS:  
RESIDENTIAL STRUCTURES - 20 FEET  
ACCESSORY USES - 10 FEET

MINIMUM DISTANCE BETWEEN ATTACHED DWELLING UNITS  
FACE TO FACE - 30 FEET  
FACE TO SIDE/REAR TO SIDE - 30 FEET  
SIDE TO SIDE - 15 FEET  
REAR TO REAR - 60 FEET  
REAR TO FACE - 100 FEET



PERMIT INFORMATION CHART					
SUBDIVISION NAME:		SECTION/AREA:	LOT/PARCEL #		
FAIRWAYS AT TURF VALLEY		PHASE 3	706 AND p/o 8		
PLAT No.	GRID No.	ZONE	TAX MAP NO	ELECTION DISTRICT	CENSUS TRACT
24373-24375	16	PGCC	16	2	602201

16-25-18 REVISE ADDRESS CHART

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
8480 BALTIMORE NATIONAL PIKE SUITE 315 & ELLIOTT CITY, MARYLAND 21043  
(P) 410-485-6105 (F) 410-485-8844  
WWW.BE-ENGINEERING.COM

Professional Certification: 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. 22390, Expiration Date: 6-30-2019

OWNER/BUILDER: MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP  
1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093  
410-825-8400

RESIDENTIAL - SINGLE FAMILY ATTACHED  
**FAIRWAYS AT TURF VALLEY**  
PHASE 3  
LOTS 1 thru 47 AND 95 thru 112

TAX MAP: 16, PARCEL: P/O 8 & 706, GRID: 16  
ELECTION DISTRICT NO. 2, HOWARD COUNTY, MARYLAND  
ZONED: PGCC

**SITE DEVELOPMENT PLAN**  
COVER SHEET

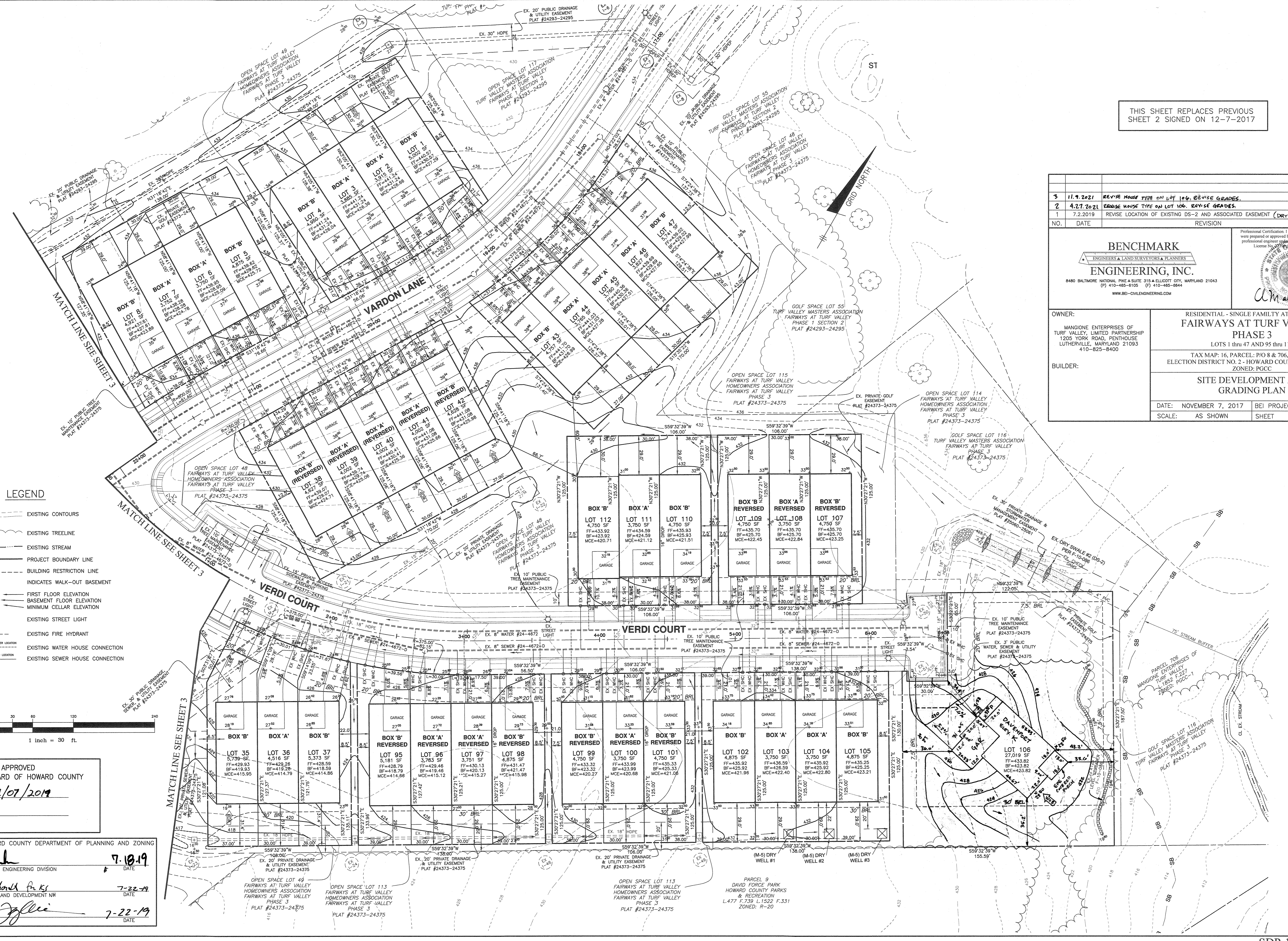
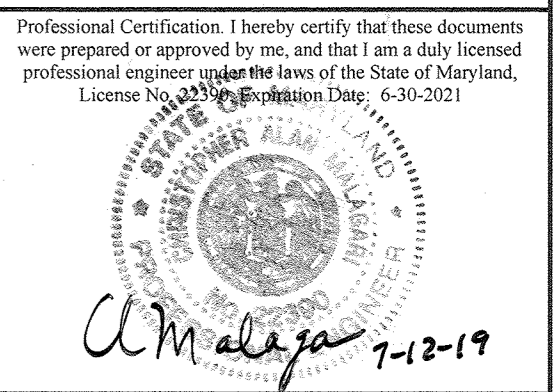
DATE: NOVEMBER 7, 2017 BEI PROJECT NO. 2838  
SCALE: AS SHOWN SHEET 1 OF 9

THIS SHEET REPLACES PREVIOUS SHEET 2 SIGNED ON 12-7-2017

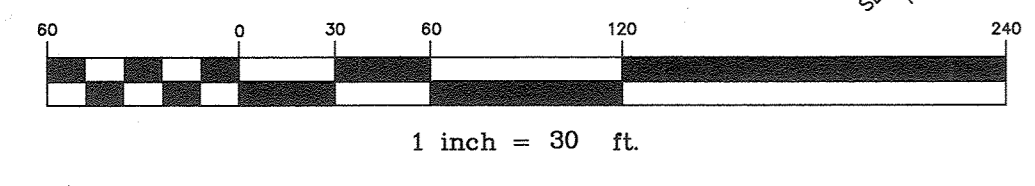
NO.	DATE	REVISION
3	11.9.2021	REVISE HOUSE TYPE ON LOT 106. REVISE GRADES.
2	4.27.2021	REVISE HOUSE TYPE ON LOT 106. REVISE GRADES.
1	7.2.2019	REVISE LOCATION OF EXISTING DS-2 AND ASSOCIATED EASEMENT (DRY SWALE)
NO.	DATE	REVISION

OWNER:	RESIDENTIAL - SINGLE FAMILY ATTACHED <b>FAIRWAYS AT TURF VALLEY</b> PHASE 3 LOTS 1 thru 47 AND 95 thru 112
BUILDER:	TAX MAP: 16, PARCEL: PO 8 & 706, GRID: 16 ELECTION DISTRICT NO. 2 - HOWARD COUNTY, MARYLAND ZONED: PGCC
<b>SITE DEVELOPMENT AND GRADING PLAN</b>	
DATE: NOVEMBER 7, 2017	BEI PROJECT NO. 2838
SCALE: AS SHOWN	SHEET 2 OF 9

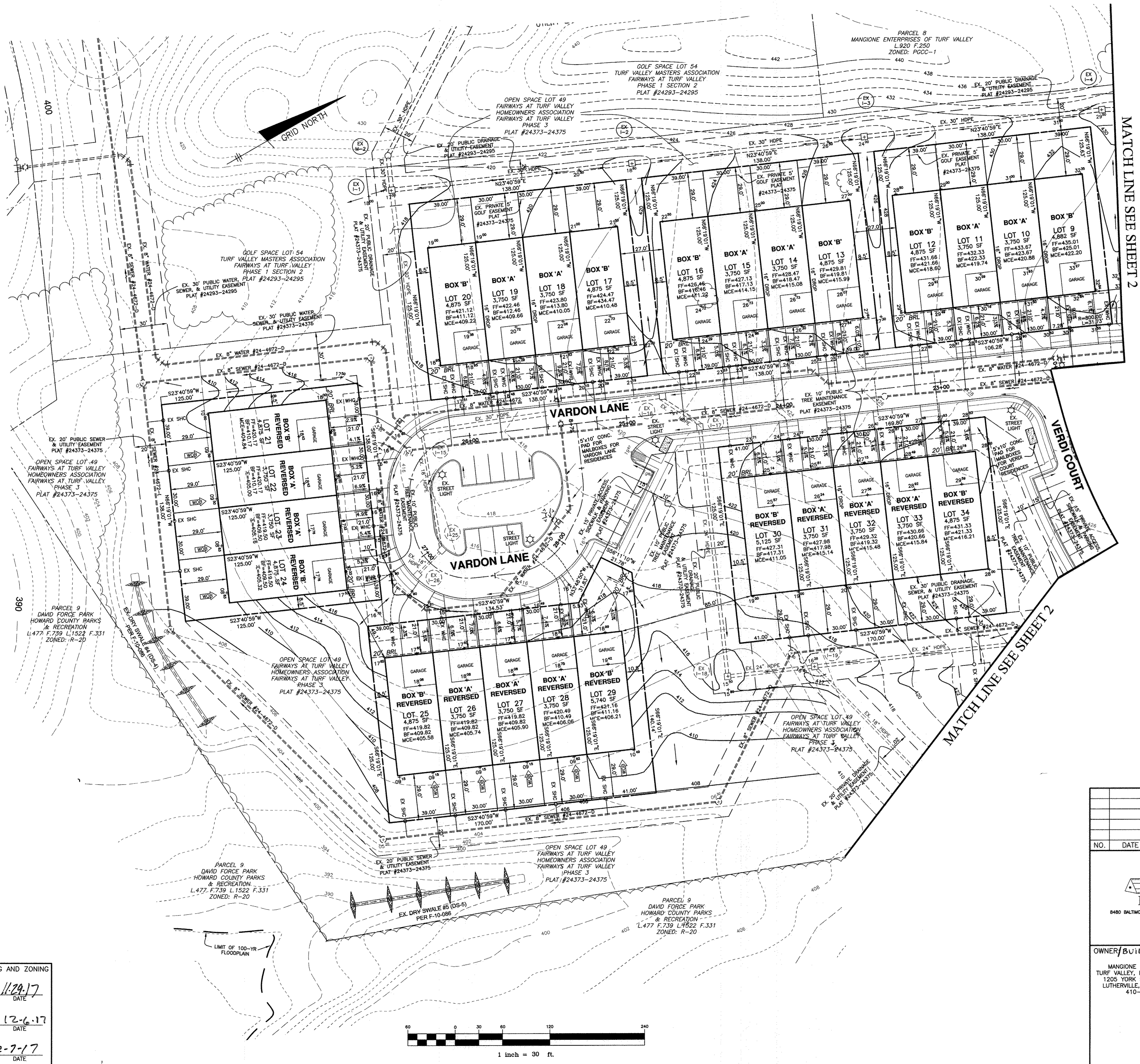


- LEGEND**
- EXISTING CONTOURS
  - EXISTING TREELINE
  - EXISTING STREAM
  - PROJECT BOUNDARY LINE
  - 20' BRL --- BUILDING RESTRICTION LINE
  - INDICATES WALK-OUT BASEMENT
  - FF=XXX.XX --- FIRST FLOOR ELEVATION
  - BF=XXX.XX --- BASEMENT FLOOR ELEVATION
  - MCE=XXX.XX --- MINIMUM CELLAR ELEVATION
  - EXISTING STREET LIGHT
  - EXISTING FIRE HYDRANT
  - EX WHC --- EXISTING WATER HOUSE CONNECTION
  - EX SHC --- EXISTING SEWER HOUSE CONNECTION



APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 09/07/2019

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*U. M. Alajja* 7-10-19  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
*J. Mankoff* 7-22-19  
CHIEF, DIVISION OF LAND DEVELOPMENT NH  
*William J. Jellie* 7-22-19  
DIRECTOR



**LEGEND**

- EXISTING CONTOURS
- EXISTING TREELINE
- EXISTING STREAM
- PROJECT BOUNDARY LINE
- BUILDING RESTRICTION LINE
- INDICATES WALK-OUT BASEMENT
- FIRST FLOOR ELEVATION
- BASEMENT FLOOR ELEVATION
- MINIMUM CELLAR ELEVATION
- EXISTING STREET LIGHT
- EXISTING FIRE HYDRANT
- EXISTING WATER HOUSE CONNECTION
- EXISTING SEWER HOUSE CONNECTION

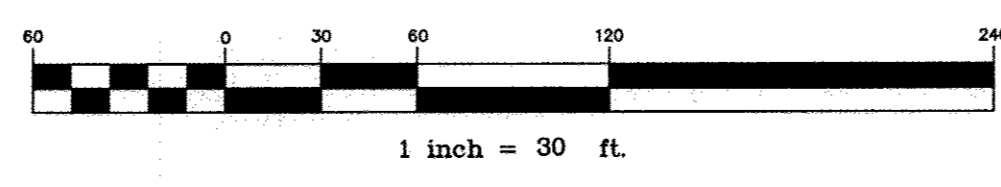
APPROVED  
 PLANNING BOARD OF HOWARD COUNTY  
 DATE 09/07/2017  
*[Signature]*

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 11-29-17  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 12-6-17  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 12-7-17  
 DIRECTOR DATE



NO.	DATE	REVISION

**BENCHMARK**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043  
 (P) 410-483-8100 (F) 410-483-8644  
 WWW.BEI-CIVILENGINEERING.COM

OWNER/BUILDER:  
 MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP  
 1205 YORK ROAD, PENTHOUSE  
 LUTHERVILLE, MARYLAND 21093  
 410-825-8400

RESIDENTIAL - SINGLE FAMILY ATTACHED  
**FAIRWAYS AT TURF VALLEY**  
 PHASE 3  
 LOTS 1 thru 47 AND 95 thru 112  
 TAX MAP: 16, PARCEL: P/O 8 & 706, GRID: 16  
 ELECTION DISTRICT NO. 2 - HOWARD COUNTY, MARYLAND  
 ZONED: PGCC

SITE DEVELOPMENT AND  
 GRADING PLAN

DATE: NOVEMBER 7, 2017  
 SCALE: AS SHOWN

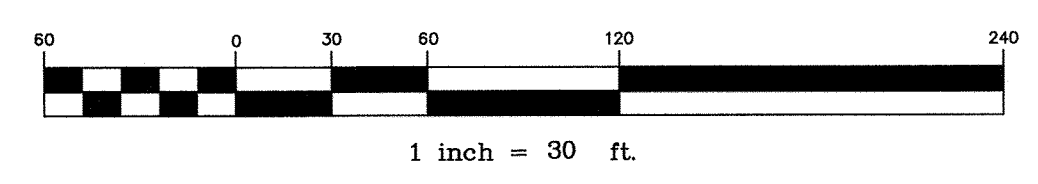
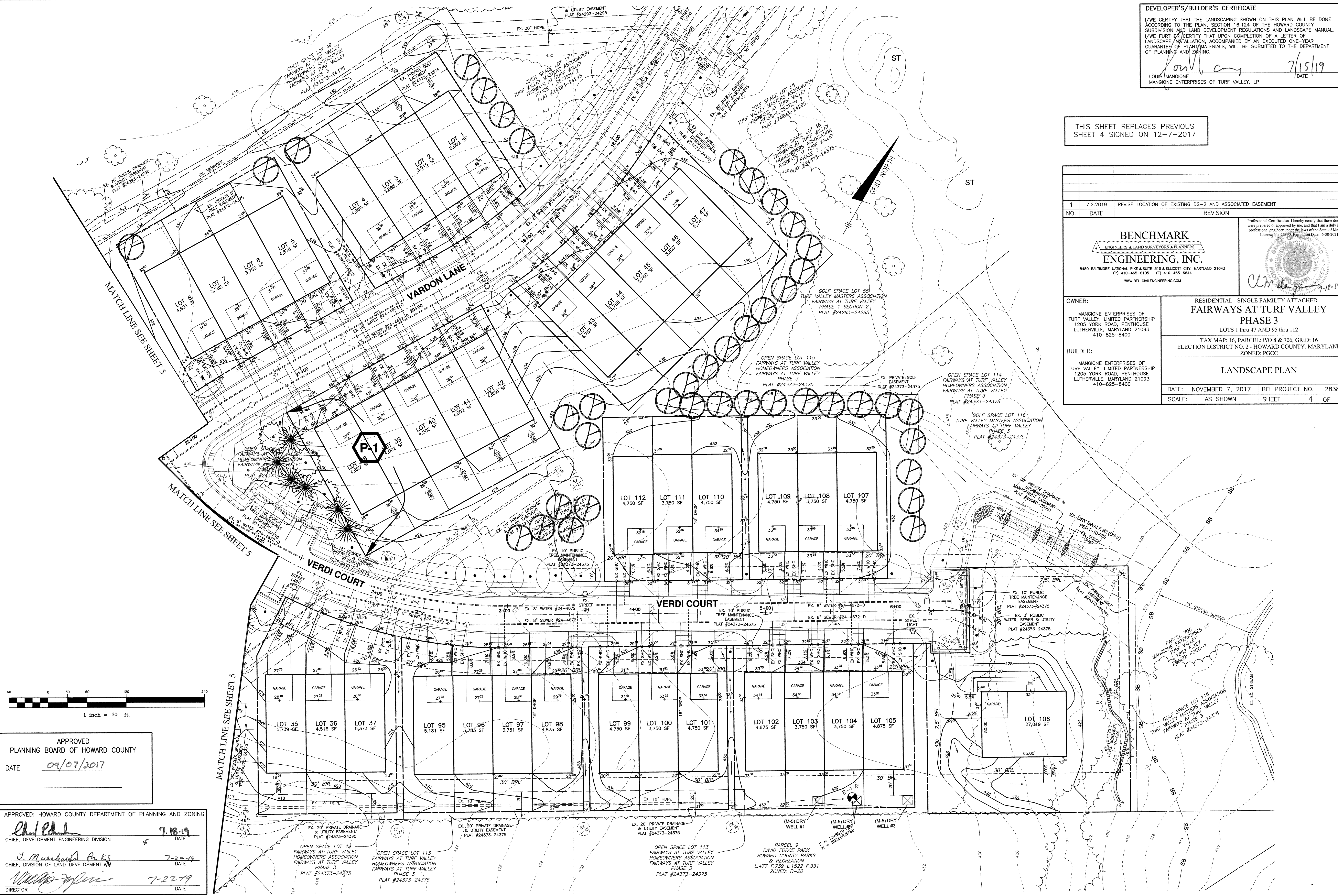
BEI PROJECT NO. 2838  
 SHEET 3 OF 9

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION OF A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*[Signature]* 7/15/19  
 LOUIS MANGIONE DATE  
 MANGIONE ENTERPRISES OF TURF VALLEY, LP

THIS SHEET REPLACES PREVIOUS SHEET 4 SIGNED ON 12-7-2017

1	7.2.2019	REVISE LOCATION OF EXISTING DS-2 AND ASSOCIATED EASEMENT
NO.	DATE	REVISION
<p><b>BENCHMARK ENGINEERING, INC.</b>          ENGINEERS &amp; LAND SURVEYORS &amp; PLANNERS          8480 BALTIMORE NATIONAL PIKE &amp; SUITE 315 • ELLOTT CITY, MARYLAND 21043          (P) 410-465-6105 (F) 410-465-8644          WWW.BEI-CIVILENGINEERING.COM</p>		
<p>OWNER:          MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP          1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093          410-825-8400</p>		<p>RESIDENTIAL - SINGLE FAMILY ATTACHED  <b>FAIRWAYS AT TURF VALLEY PHASE 3</b>          LOTS 1 thru 47 AND 95 thru 112</p>
<p>BUILDER:          MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP          1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093          410-825-8400</p>		<p>TAX MAP: 16, PARCEL: P/O 8 &amp; 706, GRID: 16          ELECTION DISTRICT NO. 2 - HOWARD COUNTY, MARYLAND          ZONED: PGCC</p>
<b>LANDSCAPE PLAN</b>		
DATE: NOVEMBER 7, 2017		BEI PROJECT NO. 2838
SCALE: AS SHOWN		SHEET 4 OF 9



APPROVED  
 PLANNING BOARD OF HOWARD COUNTY  
 DATE 09/07/2017

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 7-18-19  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

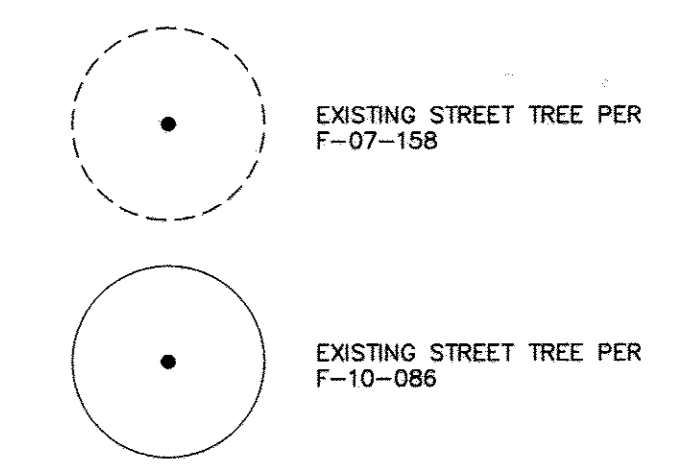
*[Signature]* 7-22-19  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 7-22-19  
 DIRECTOR DATE

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION OF A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*Louis Mangione*  
 LOUIS MANGIONE  
 MANGIONE ENTERPRISES OF TURF VALLEY, LP DATE 11/01/17

- LANDSCAPE NOTES:**
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.
  - STREET TREE LOCATIONS:  
 A. WHEN THE DISTANCE BETWEEN THE CURB AND SIDEWALK IS 6 FEET OR GREATER, THE TREES SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY AND SHALL BE CENTERED BETWEEN THE CURB AND SIDEWALK.  
 B. WHEN THE DISTANCE BETWEEN THE CURB AND SIDEWALK IS LESS THAN 6 FEET, TREES MAY BE PLANTED 3 FEET FROM THE SIDEWALK IN THE DIRECTION AWAY FROM THE ROAD. A 10-FOOT WIDE TREE MAINTENANCE EASEMENT SHALL BE REQUIRED IF THE RIGHT-OF-WAY IS LIMITED.  
 C. TREES SHALL BE PLANTED 6 FEET BEHIND CURB WHEN THERE ARE NO SIDEWALKS.  
 D. TREES TO BE PLANTED MINIMUM 30 FEET FROM SIGNS AND INTERSECTIONS WHEN PLANTED BETWEEN SIDEWALK AND CURB. TREES MAY NOT BE PLANTED WITHIN 5 FEET OF A STORM DRAIN INLET, OPEN SPACE ACCESS STRIP, OR 10 FEET OF A DRIVEWAY.
  - AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATIONS.
  - THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
  - FINANCIAL SURETY FOR THE REQUIRED PERIMETER LANDSCAPING SHALL BE POSTED AS PART OF THE GRADING PERMIT UNDER THIS SITE DEVELOPMENT PLAN.



**PERIMETER LANDSCAPE PLANTING LIST**

SYMBOL	QUANTITY	NAME	REMARKS	DESCRIPTION
	64	TILIA CORDATA 'GREENSPIRE' (Greenspire Littleleaf Linden)	2.5" - 3" cal.	SHADE TREES ALONG PERIMETER EDGES TO BE PROVIDED BY THE BUILDER.
	9	ACER RUBRUM 'RED SUBSET' (Red Sunset Red Maple)	2.5" - 3" cal.	STREET TREES TO BE PLANTED ALONG HILLTOP LANE BY THE DEVELOPER
	16	CUPRESSOCYPARIS LEYLANDI (Leyland Cypress)	5' - 6' ht.	EVERGREEN TREES ALONG PERIMETER EDGES TO BE PROVIDED BY THE DEVELOPER

**SCHEDULE A PERIMETER LANDSCAPE EDGE**

CATEGORY	SFA LOT SIDE TO ROAD (P-1)	SFA LOT SIDE TO ROAD (P-2)	SFA LOT SIDE TO ROAD (P-3)	TOTALS
	C	C	C	
LANDSCAPE TYPE	1:40 shade 1:20 evergreen	1:40 shade 1:20 evergreen	1:40 shade 1:20 evergreen	
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	125'	125'	125'	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	
NUMBER OF PLANTS REQUIRED				
SHADE TREES	3	3	3	9
EVERGREEN TREES	6	6	6	18
OTHER TREES (2:1 SUBSTITUTE)	0	0	0	0
SHRUBS	0	0	0	0
NUMBER OF PLANTS PROVIDED				
SHADE TREES	3	3	3	9
EVERGREEN TREES	6	6	6	18
OTHER TREES (2:1 SUBSTITUTE)	0	0	0	0
SHRUBS (10:1 SUBSTITUTE)	0	0	0	0

**SCHEDULE C RESIDENTIAL DEVELOPMENT INTERNAL LANDSCAPING**

	SFA	APTS
NUMBER OF DWELLING UNITS	64	0
NUMBER OF TREES REQUIRED (1:1 DU SFA; 1:3 DU APTS)	64	0
NUMBER OF TREES PROVIDED		
SHADE TREES	64	0
OTHER (2:1 RATIO)	0	0

NO. DATE REVISION

**BENCHMARK ENGINEERING, INC.**  
 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLIOTT CITY, MARYLAND 21043  
 (P) 410-465-9105 (F) 410-465-6644  
 WWW.BEI-CIVILENGINEERING.COM

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer in the State of Maryland. License No. PE 17000000. Expiration Date: 6-30-2019.

*Alan H. ...*  
 11/1/17

OWNER/BUILDER: MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP  
 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093  
 410-825-8400

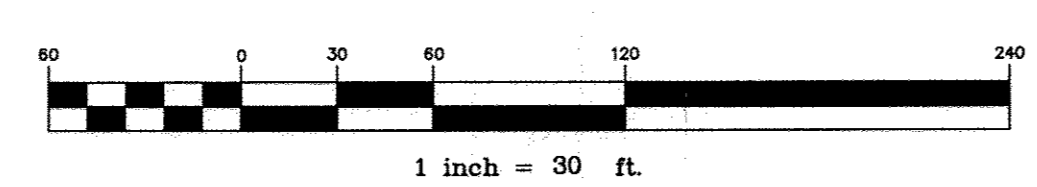
RESIDENTIAL - SINGLE FAMILY ATTACHED FAIRWAYS AT TURF VALLEY PHASE 3  
 LOTS 1 thru 47 AND 95 thru 112  
 TAX MAP: 16, PARCEL: P/O 8 & 706, GRID: 16  
 ELECTION DISTRICT NO. 2 - HOWARD COUNTY, MARYLAND  
 ZONED: PGCC

**LANDSCAPE PLAN**

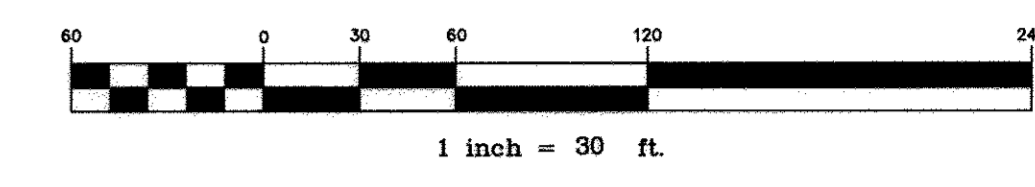
DATE: NOVEMBER 7, 2017 BEI PROJECT NO. 2838  
 SCALE: AS SHOWN SHEET 5 OF 9

APPROVED  
 PLANNING BOARD OF HOWARD COUNTY  
 DATE 09/07/2019  
*[Signature]*

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 11-29-17  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE  
*[Signature]* 12-6-17  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
*[Signature]* 12-7-17  
 DIRECTOR DATE



NRCS SOILS CHART				MAP UNIT NAME
GbA		B	0.28	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES
GbB		B	0.28	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES
GbC		B	0.28	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES
GmB*	YES	C	0.43	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
GnB*	YES	C	0.43	GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES
Ha*	YES	D		HATBORO-CODORUS, 0 TO 3 PERCENT SLOPES



NO.	DATE	REVISION

**BENCHMARK**  
ENGINEERS & LAND SURVEYORS & PLANNERS

**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-8105 (F) 410-465-8644  
WWW.BEI-CIVILENGINEERING.COM

OWNER/BUILDER: MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP  
1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093  
410-825-8400

RESIDENTIAL - SINGLE FAMILY ATTACHED  
**FAIRWAYS AT TURF VALLEY**  
PHASE 3  
LOTS 1 thru 47 AND 95 thru 112

TAX MAP: 16, PARCEL: P/O 8 & 706, GRID: 16  
ELECTION DISTRICT NO. 3 - HOWARD COUNTY, MARYLAND  
ZONED: PGCC

**SEDIMENT AND EROSION CONTROL PLAN**

DATE: NOVEMBER 7, 2017    BEI PROJECT NO. 2838  
SCALE: AS SHOWN    SHEET 6 OF 9

**LEGEND**

- EXISTING TREELINE
- PROJECT BOUNDARY LINE
- LIMIT OF DISTURBANCE
- PERMANENT SOIL STABILIZATION MATTING
- SF - SILT FENCE
- SSF - SUPER SILT FENCE
- DF - DIVERSION FENCE
- SOILS DELINEATION LINE
- BaA** - SOILS TYPE DESIGNATION
- DRAINAGE AREAS
- SCS - STABILIZED CONSTRUCTION ENTRANCE
- AT-GRADE INLET PROTECTION

APPROVED  
PLANNING BOARD OF HOWARD COUNTY

DATE: 09/10/2017  
*EJM*

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*CJ Malagan*    11-14-17    DATE  
ENGINEER

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Louis Mangione*    11/10/17    DATE  
DEVELOPER - LOUIS MANGIONE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

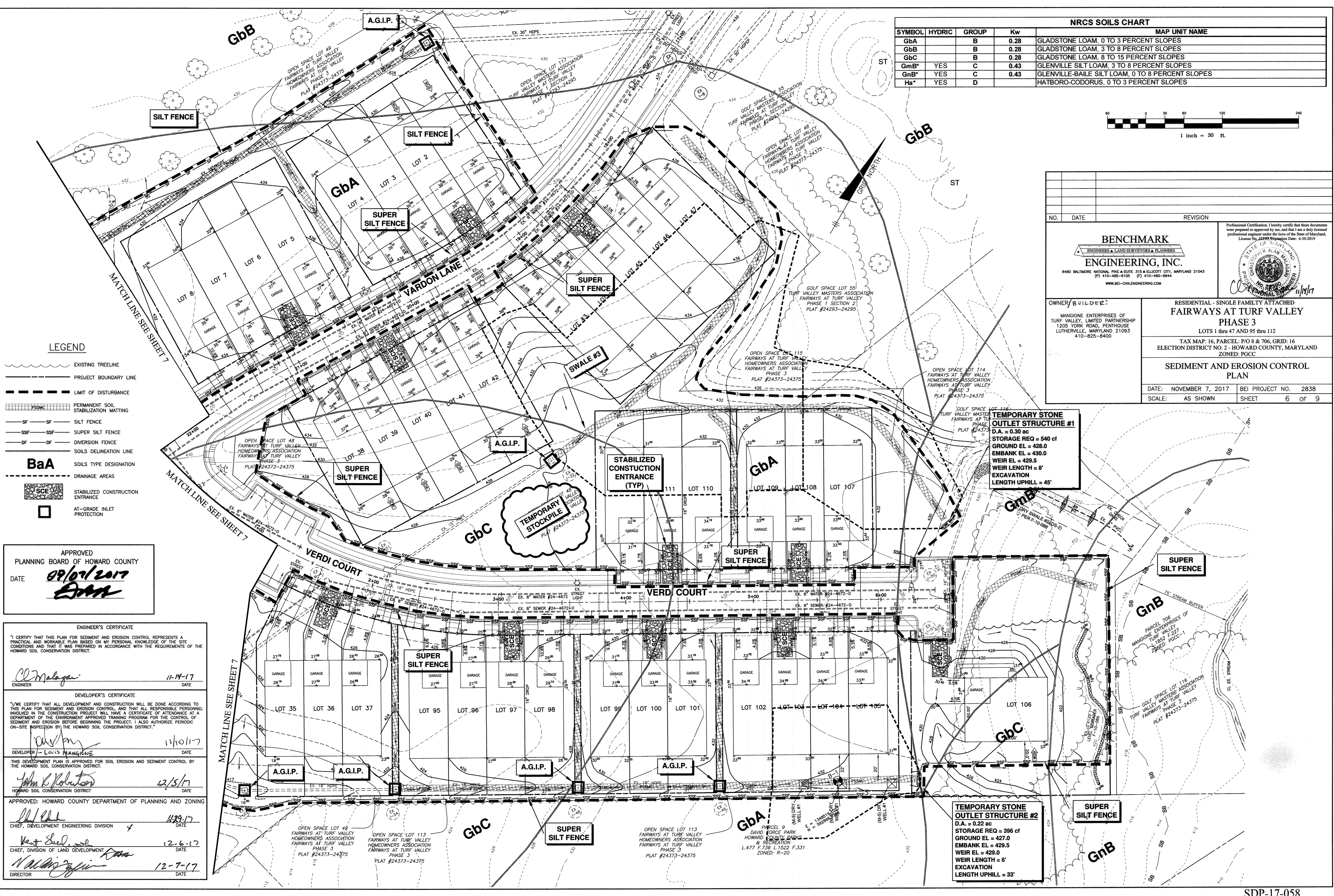
*Wm K. Robertson*    12/3/17    DATE  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*W. J. Che*    11/29/17    DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

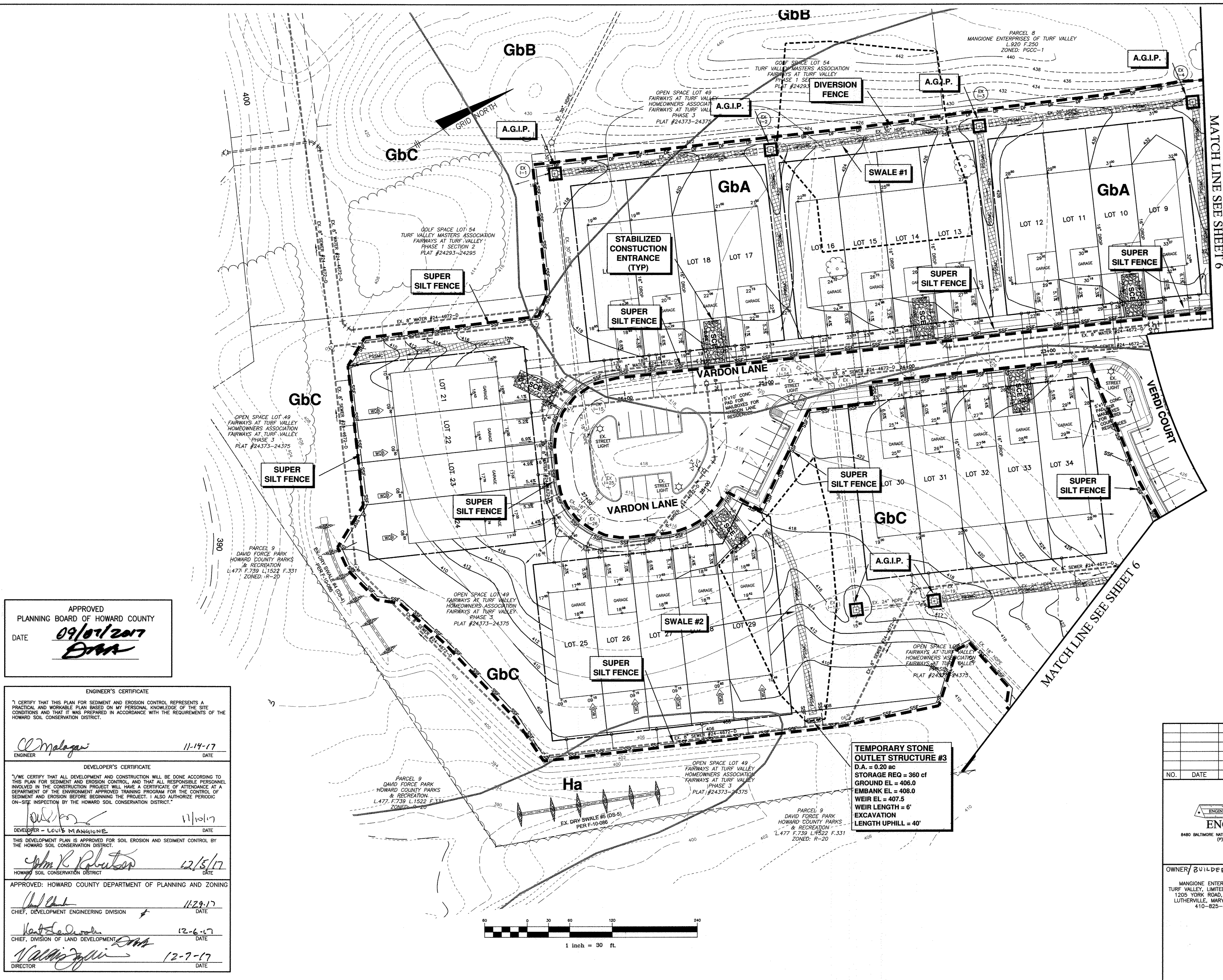
*Ken Siedel*    12-6-17    DATE  
CHIEF, DIVISION OF LAND DEVELOPMENT

*N. Manganione*    12-7-17    DATE  
DIRECTOR



**TEMPORARY STONE OUTLET STRUCTURE #1**  
D.A. = 0.30 ac  
STORAGE REQ = 540 cf  
GROUND EL = 428.0  
EMBANK EL = 430.0  
WEIR EL = 429.5  
WEIR LENGTH = 8'  
EXCAVATION LENGTH UPHILL = 45'

**TEMPORARY STONE OUTLET STRUCTURE #2**  
D.A. = 0.22 ac  
STORAGE REQ = 396 cf  
GROUND EL = 427.0  
EMBANK EL = 429.5  
WEIR EL = 429.0  
WEIR LENGTH = 6'  
EXCAVATION LENGTH UPHILL = 33'



**LEGEND**

- EXISTING TREELINE
- PROJECT BOUNDARY LINE
- LIMIT OF DISTURBANCE
- PERMANENT SOIL STABILIZATION MATTING
- SILT FENCE
- SUPER SILT FENCE
- DIVERSION FENCE
- SOILS DELINEATION LINE
- SOILS TYPE DESIGNATION
- DRAINAGE AREAS
- STABILIZED CONSTRUCTION ENTRANCE
- AT-GRADE INLET PROTECTION

- SEQUENCE OF CONSTRUCTION**
- NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF WORK
  - SEQUENCE PERTAINS TO EACH INDIVIDUAL STICK AS PERMITS ARE ISSUED. NOT ALL BUILDING STICKS WILL BE CONSTRUCTED AT THE SAME TIME.
  - OBTAIN BUILDING/GRADING PERMIT. (DAY 1)
  - HOLD ON-SITE PRECONSTRUCTION MEETING. (DAY 2)
  - INSTALL PERIMETER CONTROLS AROUND THE LOT STICK. (I.E. SUPER SILT FENCES AND STABILIZED CONSTRUCTION ENTRANCE). (DAY 3)
  - EXCAVATE FOR FOUNDATION. (DAY 4-6)
  - POUR FOUNDATION AND BACKFILL. (DAY 7-10)
  - CONSTRUCT HOUSE STICK, INSTALL THE UTILITY CONNECTIONS UP TO EACH HOUSE WITHIN THE STICK (I.E. WATER AND SEWER HOUSE CONNECTIONS, ELECTRIC, ETC.). CONSTRUCT DRIVEWAYS. ONCE ROOFS OF THE HOUSES ARE COMPLETED, INSTALL THE ROOF DRAIN MANIFOLD SYSTEM, IF NECESSARY. (DAY 11-90)
  - CONSTRUCT SIDEWALK IN FRONT OF EACH LOT STICK AND FINAL GRADE LOT STICK AND STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDBED NOTES. (DAY 91-95)
  - UPON APPROVAL FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS. (DAY 96-100)

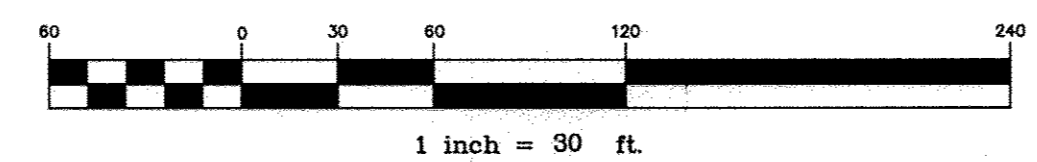
APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 09/07/2017  
*DMA*

ENGINEER'S CERTIFICATE  
I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*C. Malagan* 11-14-17  
ENGINEER DATE

DEVELOPER'S CERTIFICATE  
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Louis Mangione* 11/10/17  
DEVELOPER - LOUIS MANGIONE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John K. Robertson* 12/5/17  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Chief Development Engineering Division* 11-29-17  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE  
*Chief, Division of Land Development* 12-6-17  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
*Director* 12-7-17  
DIRECTOR DATE



NO.	DATE	REVISION

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
8480 BALTIMORE NATIONAL PIKE SUITE 315 & ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-8105 (F) 410-465-8644  
WWW.BE-ENGINEERING.COM

Professional Certification. 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. 22399. Expiration Date: 6-30-2019

**OWNER/BUILDER:**  
MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP  
1205 YORK ROAD, PENTHOUSE  
LUTHERVILLE, MARYLAND 21093  
410-825-8400

**RESIDENTIAL - SINGLE FAMILY ATTACHED FAIRWAYS AT TURF VALLEY PHASE 3**  
LOTS 1 thru 47 AND 95 thru 112  
TAX MAP: 16, PARCEL: P/O 8 & 706, GRID: 16  
ELECTION DISTRICT NO. 2 - HOWARD COUNTY, MARYLAND  
ZONED: PGCC

**SEDIMENT AND EROSION CONTROL PLAN**

DATE: NOVEMBER 7, 2017 BEI PROJECT NO. 2838  
SCALE: AS SHOWN SHEET 7 OF 9

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION. Definition: Using vegetation as cover to protect exposed soil from erosion. Purpose: To promote the establishment of vegetation on exposed soil.

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS. Definition: The process of preparing the soils to sustain adequate vegetative stabilization.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING. Definition: The application of seed and mulch to establish vegetative cover.

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION. Definition: To stabilize disturbed soils with permanent vegetation.

B-4-4 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA. Definition: A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Adequate Vegetative Establishment. Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and seedlings within the planting season.

A. Soil Preparation. 1. Temporary Stabilization. a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment.

A. Seeding. 1. General Use. a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2.

B-4-4 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA. Definition: A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Criteria. 1. The stockpile location and all related sediment and control practices must be clearly indicated on the erosion and sediment control plan.

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION. Definition: Establishment of vegetative cover on cut and fill slopes.

B. Topsoiling. 1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation.

B. Mulching. 1. Mulch Materials (in order of preference). a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color.

1. The stockpile location and all related sediment and control practices must be clearly indicated on the erosion and sediment control plan.

2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.

1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work progresses.

2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications.

ii. Limestone. Limestone (up to 3 tons per acre) may be applied by any one method. Normally, not more than 2 tons are applied by hydroseeding at any one time.

3. Runoff from the stockpile area must drain to a suitable sediment control practice.

4. Access the stockpile area from the upgrade side.

2. Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch.

3. Topsoiling is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

iv. Kentucky Bluegrass/Fine Fescue. Shade Mixture. For use in areas with shade in Bluegrass Lawns. For establishment in high quality, intensively managed turf area.

5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence.

7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.

3. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates originally specified.

4. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition.

v. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniform spread slurry.

8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate leaching. Stockpiles containing contaminated material must be covered with impermeable sheeting.

8. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly, and the next day after each rain event.

4. Maintenance fertilizer rates for permanent seeding are shown in Table B.6.

5. Fertilizer must be uniform in composition, flow freely and suitable for accurate application by appropriate equipment.

vii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry.

9. Tranches for the construction of utilities is limited to three pipe lengths or that which can and shall be back filled and stabilized by the end of each work day, whichever is shorter.

10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction.

5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1000 square feet) prior to the placement of topsoil.

8. WCFM material must not contain elements or compounds at concentration levels that will be phytotoxic.

viii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tack II, Terra Tack AR or other approved equal may be used.

11. Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 acres per grading unit) at 10:00 a.m.

12. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure.

APPROVED PLANNING BOARD OF HOWARD COUNTY DATE: 09/07/2017

ENGINEER'S CERTIFICATE, DEVELOPER'S CERTIFICATE, APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Table with 6 columns: No., Species, Application Rate (lb/ac), Seeding Dates, Seeding Depths, and Lime Rate. Includes rows for Ryegrass and Bluegrass.

Table B.1: Temporary Seeding for Site Stabilization. Columns: Plant Species, Seeding Rate 1/ (lb/acre and lb/1000ft2), Seeding Depth 2/ (inches), Recommended Seeding Dates by Plant Hardiness Zone 3/.

Notes: 1/ Seeding rates for the warm season grasses are in pounds of Pure Live Seed (PLS). Actual planting rates shall be adjusted to reflect percent seed germination and purity, as tested.

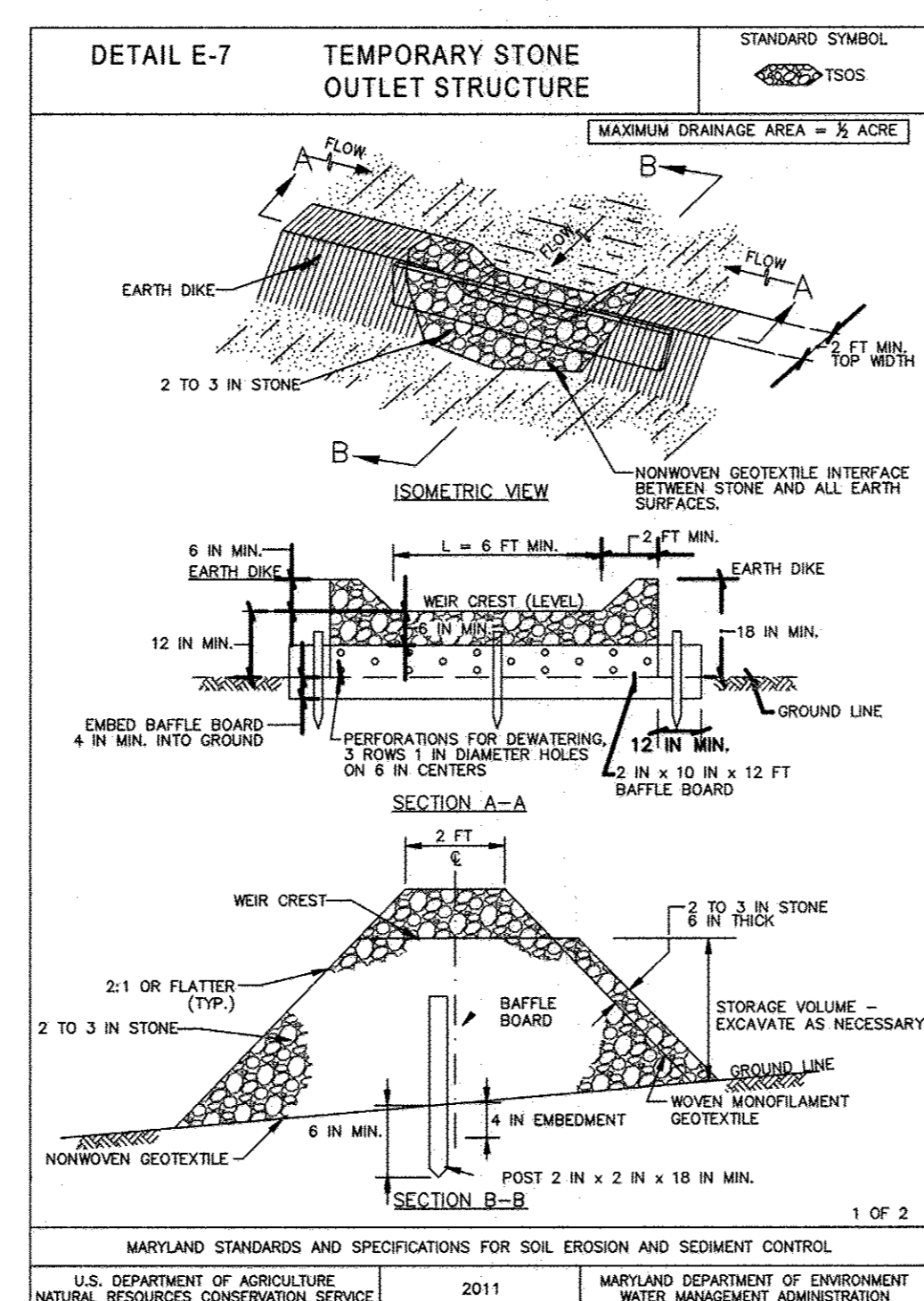
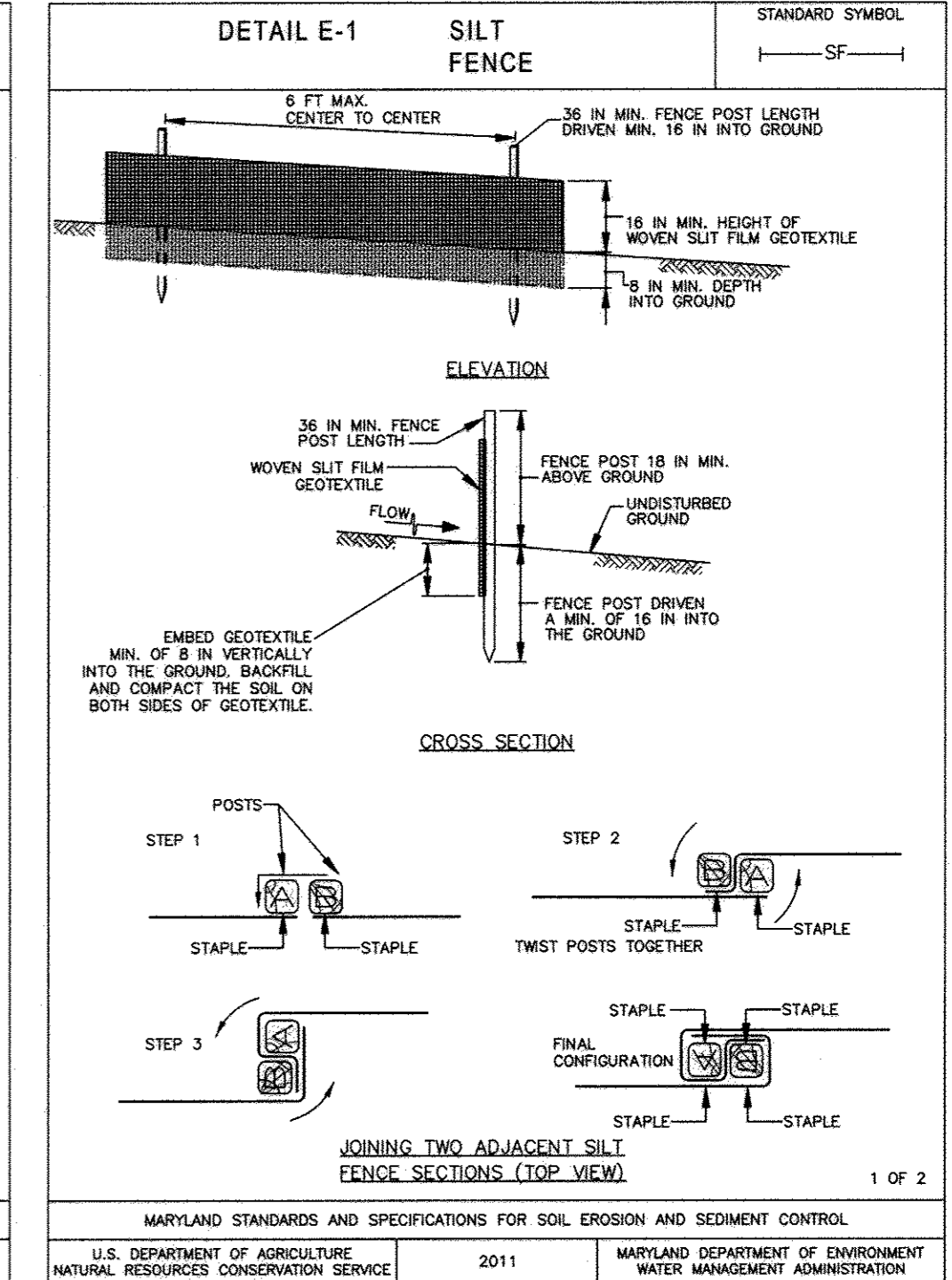
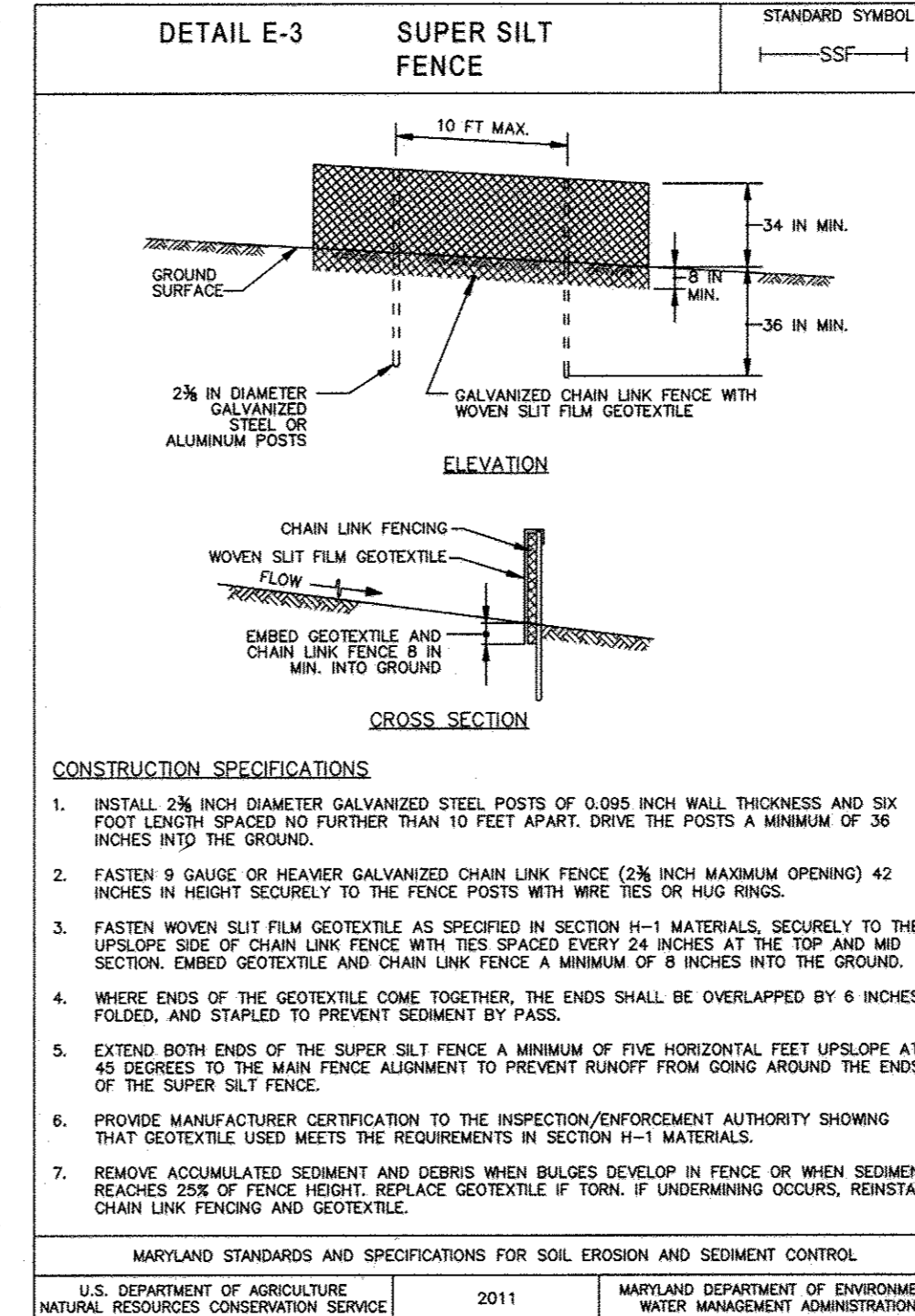
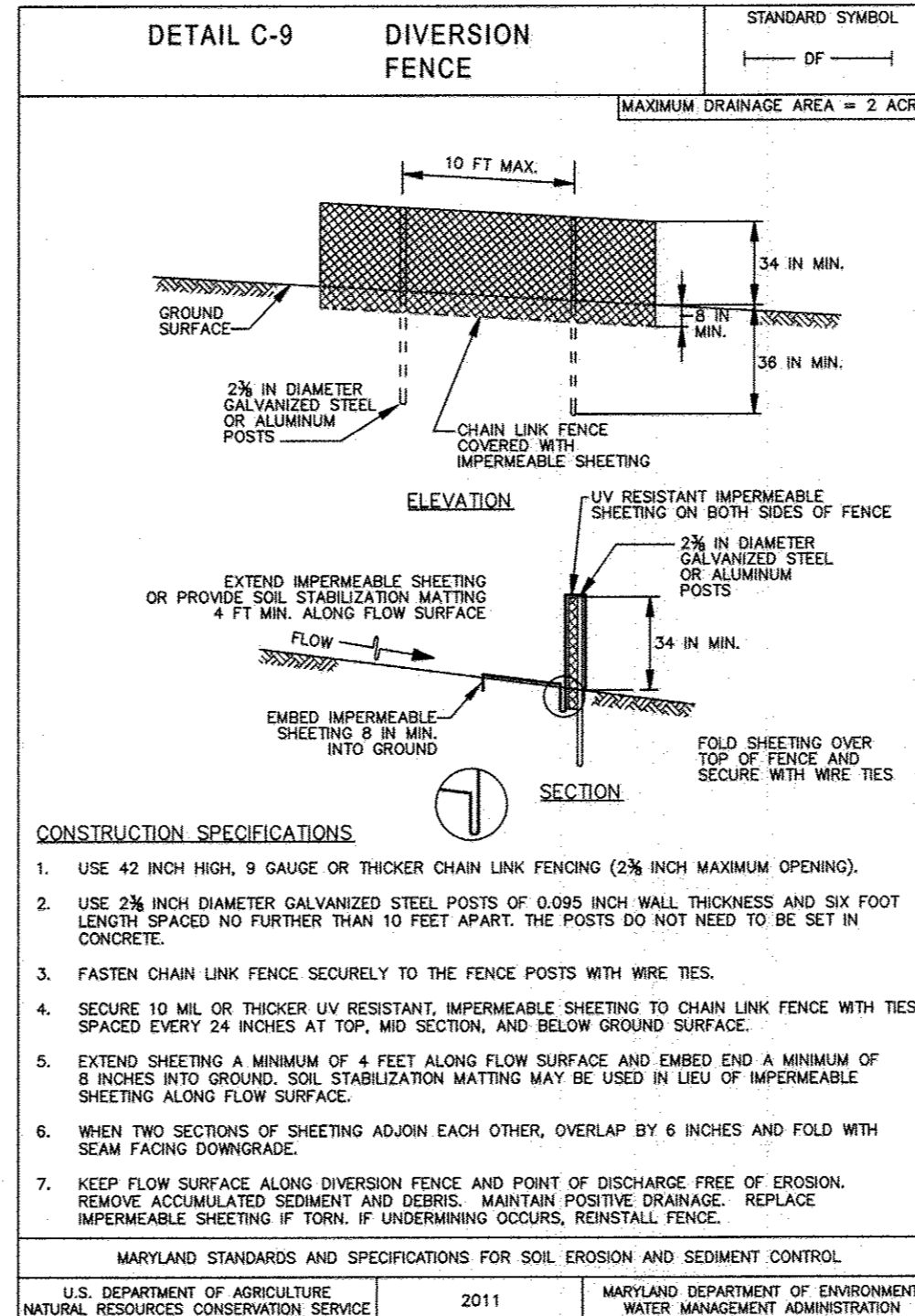
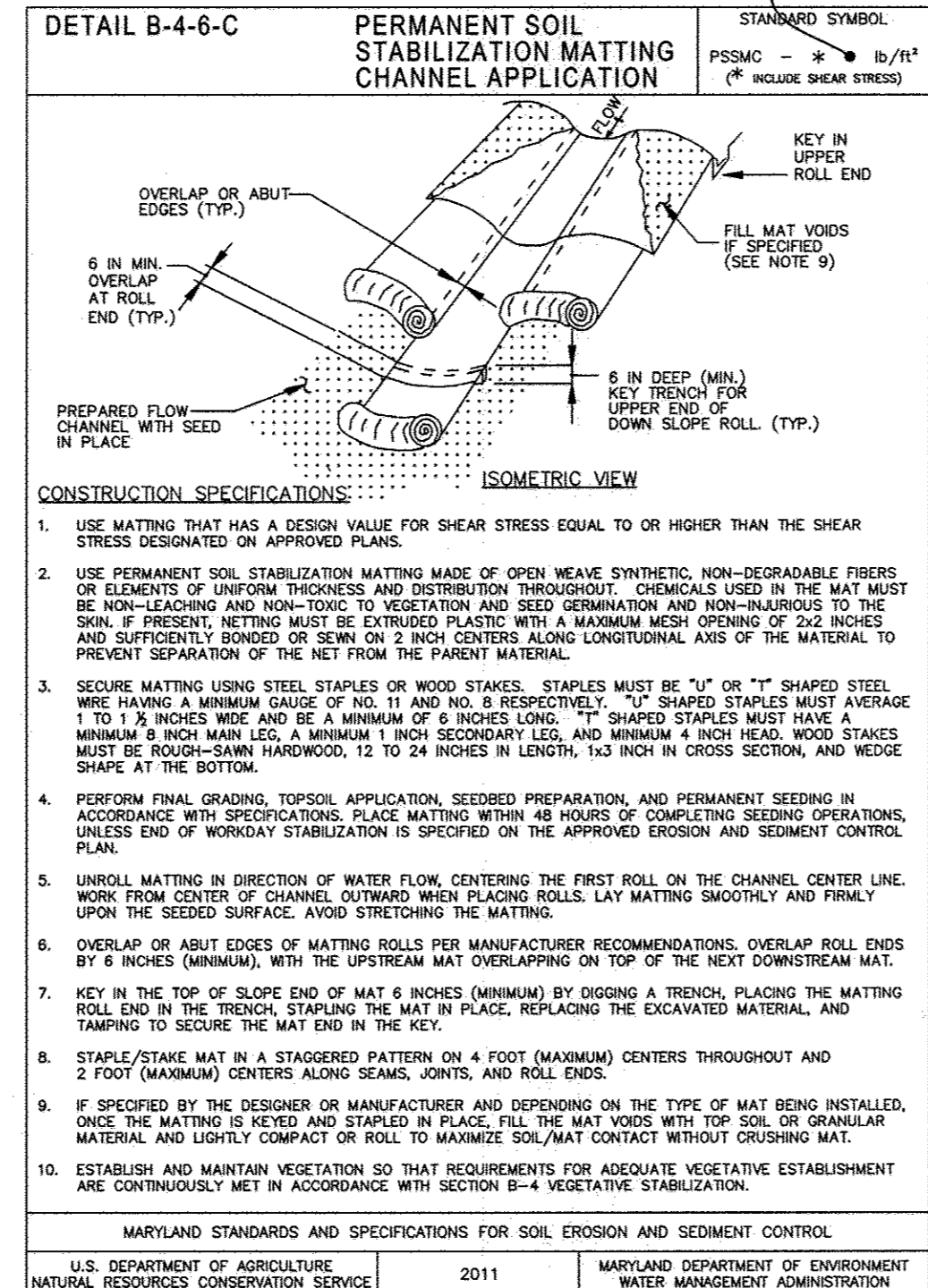
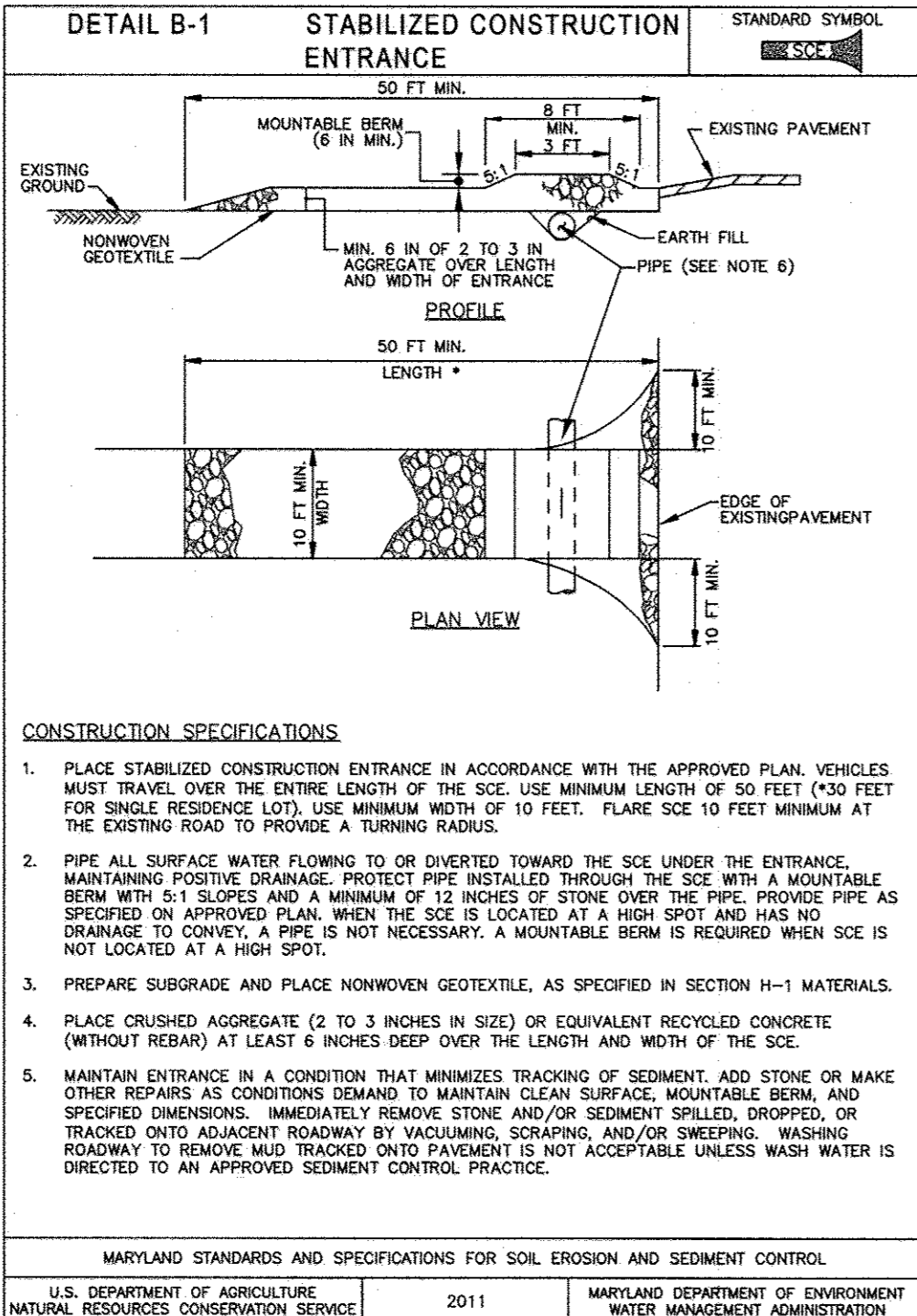
NO. DATE REVISION table for tracking changes to the document.

BENCHMARK ENGINEERING, INC. logo and contact information: 8480 BALTIMORE NATIONAL PIKE APTS. SUITE 315, ELLOTT CITY, MARYLAND 21043

OWNER/BUILDER: MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP. RESIDENTIAL - SINGLE FAMILY ATTACHED FAIRWAYS AT TURF VALLEY PHASE 3.



1.95 lb/ft<sup>2</sup> SWALES IN REAR OF LOTS 1-20  
0.64 lb/ft<sup>2</sup> ALL OTHER SWALES



APPROVED  
PLANNING BOARD OF HOWARD COUNTY  
DATE 09/07/2017  
ETM

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

C. Malagan 11-14-17  
ENGINEER DATE

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Louis Mangione 11/01/17  
DEVELOPER - LOUIS MANGIONE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Roberts 12/15/17  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Elms 11.29.17  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Kent S. Swisher 12-6-17  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

William J. J. J. 12-7-17  
DIRECTOR DATE

NO.	DATE	REVISION

Professional Certification. 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. 22396. Expiration Date: 6-30-2019.

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
8480 BALTIMORE NATIONAL PIKE SUITE 315 & ELLICOTT CITY, MARYLAND 21104  
(P) 410-465-8105 (F) 410-465-8644  
WWW.BEI-CIVILENGINEERING.COM

OWNER/BUILDER: MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP  
1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093  
410-825-8400

RESIDENTIAL - SINGLE FAMILY ATTACHED  
**FAIRWAYS AT TURF VALLEY PHASE 3**  
LOTS 1 thru 47 AND 95 thru 112  
TAX MAP: 16, PARCEL: P/O 8 & 706, GRID: 16  
ELECTION DISTRICT NO. 2 - HOWARD COUNTY, MARYLAND  
ZONED: PGCC

**SEDIMENT AND EROSION CONTROL DETAILS**

DATE: NOVEMBER 7, 2017 BEI PROJECT NO. 2838  
SCALE: AS SHOWN SHEET 9 OF 9

SDP-17-058