- General Notes:
- 1 All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA
- standards and specifications if applicable,
- 2. 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.
- 3. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work being
- 4. Traffic control devices, markings and signing shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Devices (MJTCD). All street and regulatory signs shall be in place prior to the placement of any
- Street light placement and the type of fixture and pole shall be in accordance with the Howard County Design Manual, Volume III (1993) and as modified by "Guidelines for Street Lights in Residential Developments (June 1993)." A minimum spacing of 20' shall be maintained between any streetlight and any tree.
- 6. All sign posts used for traffic control signs installed in the County right-of-way shall be mounted on a 2° galvanized steel, perforated, square tube sleeve (12 gague) 3' long. A galvanized steel pole cap shall be mounted on top of each post.
- 7. 95% compaction in road fill areas shall meet AASHTO T-180 reavirements.
- 8. Zoning: Site is being developed under the Amended 5th Edition of the Subdivision and Land development Regulations for RA-15 (including the Supplementary Regulations for Traditional Residential neighborhoods). This plan is subject to the Amended Zoning Regulations per ZRA-65.
- 9. Applicable DPZ File Reference: 5 04-09, WP 04-105, P-06-001, F-06-019, WP 06-045, ZRA-65, F-07-043. 10. This project is in conformance with the latest Howard County standards unless waivers have been approved (MP 06-045 see Note 31 below).
- II. Boundary information is from boundary surveys by Gutschick, Little, and Weber, P.A., dated May, 2003.
- 12. Harizontal and vertical datum is based on Howard Country Control Stations: 3IGA, 3TA4
- 13. Aerial topography by McKenzle Snyder, Inc. on 3/23/03. Topography NN of Md Route 108 provided by Ho. Co. 14. Wetland and stream delineation by Exploration Research, inc. submitted and approved under Sketch Plan S 04-09 dated 2/15/05, Jurisdictional determination and verification of delineation of waters of the U.S. by U.S. Army Corps of Engineers on 3/28/03. No clearing, grading or construction is permitted within wetlands, streams or their required buffers, miless approved by DPZ as necessary disturbances or waivers have been approved. The Department of Planning and Zoning has determined that the proposed road crossing located within the environmental features and buffers are considered necessary road disturbances in accordance with Section 16.116(c) of the Howard County Subdivision and Land Development Regulations.
- 15. The Cemetery Inventory Maps do not show any cemeteries within the project limits. However, a cemetery does exist on the northern corner of the adjacent Curtis Property.
- 16. The Scenic Roads Map does not indicate any scenic roads within or adjacent to the project limits.
- 17. Existing utilities were taken from available Howard County records. 18. This property is within the Metropolitan District.
- 19. Water and Sever are Public per Contract No. 24-4334-D and are with the Little Patuxent Severage Area
- 20. 100-Year Flood plain prepared by Gutschick, Little, and Weber, P.A was submitted and approved as a part of F 06-019
- 21. Traffic Sludy and Traffic Signal Warrant Analysis by The Traffic Group, dated Jan. 26, 2004. 22. Vehicular ingress & egress to MD Route 108 is prohibited except as indicated. Vehicular ingress and egress to
- Snowden River Parkway and MD Route 100 is prohibited. 23. The minimum width of Common Open Space Lots that contain alleys shall be 24 feet. The minimum width of alley drive lance shall be 16 feet.
- 24. All public streets within this development shall have sidewalks on both sides of the roadway. SFA lots may not be encompered with sidewalks and/or sidewalk easements. 25. A Sight Distance Analysis for the entrance from MD State Route 108 was provided and approved with the Sketch
- Plan 5 04-09 on October 7, 2002. 26. Common Open Area Lot C-138 is for the purpose of common ingress/egress and utility construction and maintenance. An easement for ingress/egress, maintenance and various public utilities (gas, telephone, electric,
- etc.) construction and maintenance will be overlayed with those lots as part of the final plat process. 27. Noise study by, Hyle Laboratories, dated May 12, 2005 and updated July 12, 2005
- 28. A Forest Stand Delineation Plan was submitted and approved for the area covered by this plan under 5 04-09 February 15, 2005. A Forest Conservation Plan was submitted and approved for the area covered by this plan under F 06-019
- 29. To fulfill the forest conservation requirements of this site, at least 10.04 acres of forest conservation easement is required. This requirement is addressed by providing 8.74 acres of easement area on-site that is comprised of 1.48 acres of net tract forest retention, 1.57 acres of non-credited forest retention within the floodplain and 5.74 acres of on-site afforestation. 2.13 ac. of the total 5.74 ac. of afforestation is in FCE #5 on Non-buildable Parcel D on the approved F-06-019 FCP, and the easement for 2.13 ac. afforestation FCE #5 is to be recorded on the tyture resubdivision plat for Non-buildable Parcel D. Additionally, 1.30 acres of easement area off-site is to be provided comprised of forest conservation banking.
- 30. Where referred to herein, "Lot(s)" includes lot(s) and, where appropriate, land condominium unit(s).
- In July 14, 2004, WP 04-105, a waiver of Section 16.120.c.(4) was granted which requires single family attached lots to have at least 15' of frontage onto a public road right-of-way. Section 16.119.e.(5), which requires truncation of oublic road right-of-way boundaries where public roads intersect (at corner lots); and Section 16.116.a.2.(1) which prohibits disturbance to streams and stream buffers, to allow construction of two pedestrian bridges to cross the streams. Subject to the following 2 conditions in the approval letter:
- 1. The disturbance to the stream and stream buffer related to the pedestrian bridges shall be minimized. The Preliminary Plan shall show the limit of disturbance and proposed grading associated with the bridges, and shall be subject to review and approval by the Subdivision Review Committee. 2. If it is determined by the DED that staht distance is inadequate at the intersections for which truncation as wayed, then the appropriate easements must be added to the plan/plat.
- On march 23, 2006, MP-06-45, approved the waivers for the following: Section 16.116(a)(1) request to be permitted to grade within 25 feet of a wetland; Section 16.116(a)(2)(11), request to be permitted to grade within 75 feet of a perennial stream, Section 16.119(f)(), request to be permitted to obtain vehicular access from minor arterial road instead of a lesser classification road for a proposed subdivision that fronts on minor and principle arterial roads and local road, Section 16,120(c)(1), request to be permitted to create commercial and apartment/multifamily parcels without a minimum of 60 feet of frontage on an approved public road, and Section 16.114.(f) request to be permitted to not submit and obtain approval of the required preliminary plan for a major subdivision before submitting the required final plan/plat. Subject to the following 4 conditions in the approval letter:
- I. Compliance with the DED comments of 2/14/06 2. The stream and wetland buffers shall be afforested in accordance with the forest conservation plan for final
- plan/plat, F-06-19. 3. The applicant must obtain all required State/COE permits. 4. The stream and wetland buffer disturbances shall not exceed the one shown on the MP-06-45 exhibit of 2/2/06.
- 32. All Open Space Lots and Common Open Space Lots are to be conveyed to the Shipley's Grant Homeowner's
- 33. The maximum allowed mean height of a principal structure in the R-A-15 Zone shall be 55-feet and the mean height of accessory structures shall be 15-feet.
- As indicated in the legend, there are parking spaces that are provided to meet the parking requirement of the Zoning Ordinance for this phase of the subdivision. These parking spaces are lot specific, as indicated on the plan, and shall be reserved by signage or other methods as approved by Howard County. Spaces not reserved by signage are to be used for quest/overflow parking
- 35. During the 2006 legislative session, the County Council of Howard County introduced Bill ZRA-65 to amend the Howard County Zoning Regulations pertaining to Traditional Residential Neighborhoods by expanding the applicability of the regulations to B-1 and POR zoning districts, changing setback requirements, and changing maximum lot coverage, under certain circumstances. The effective date of the amended Zoning Regulations is April 10, 2006.

9-10-07

9/12/07

LOT	S	C-	.73	Annual Annua	ſŲ

- Water Quality and Channel Protection for Phase II is provided by existing SWM-Facility 'B' approved under F-06-019. The Recharge (Rev) Requirement Phase II (4.51 acres) is provided by an infiltration system (Rev5 and Rev6). This system consists of a 'CON/STORM' precast storage vault (Rev6). Water draining to this Storage vault is to be pretreated by a VortSentry V640 Water Filtration device (Rev5).
- Rev Area provided by Facility/System Rev56 = 4.51 acres Rev requirement per F-06-019 = 103 cu-ft/acre of developed land. Rev Storage Requirement = 3170 cu-ft. Rev Storage Provided = 3240 cu-ft.
- Rev56 is to be privately owned and maintained.
- THE APPROVED SKETCH AND PRELIMINARY PLANS FOR THIS SUBDIVISION/PROJECT INDICATED THE 50' AND 15' STREAM BUFFERS REFRENCED FROM THE CENTERLINES OF THE STREAMS, WHICH DID NOT CAUSE THE STREAM BUFFERS TO BE LOCATED ON ANY RESIDENTIAL LOTS. A DPZ AND HSCD POLICY DECISION WAS MADE AT THE FINAL PLAT AND SITE DEVELOPMENT PLAN STAGES OF THIS SUBDIVISION/PROJECT INDICATE THE 50' AND 75' STREAM BUFFERS REFERENCED FROM THE STREAMBANKS. TO ALLOW THE STREAM BUFFERS ON RESIDENTIAL LOTS LESS THAN IO ACRES IS SIZE, AND TO NOT REQUIRE THE 35" STRUCTURE SETBACK REFRENCED FROM A STREAM BUFFER LOCATED ON A RESIDENTIAL LOT AS NORMIALLY REQUIRED BY SUBDIVISION SECTION 16.120(b)(4)(III). THIS "GRANDFATHERING" POLICY WAS BASED ON EARLIER APPROVALS OF THE RELATED SKETCH AND PRELIMINARY PLANS FOR THIS SUBDIVISION/PROJECT.

-		/	and the last a second second state of scheme back	and the second second second
	PHASE NO.	CO. FILE No.	6R035	K FLO
	PHASE I	P 06-001/ F-01-043	13.63 AC.	1
	PHASE II	P 06-004/ F-07-059	5.81 AC.	
	CUM	LATIVE TOTAL	19.44 AC.	
	* *	PARCELS 'A' AN	ID 'B' PREV	IOUSI

VOTES:	

- I. MINIMUM REQUIRED OPEN SPACE (
- 2. PERCENT OPEN SPACE PROVIDED
- 3. MINIMUM REQUIRED RECREATION 4. MINIMUM REQUIRED TRADITIONAL

= 10-0000

REVISION

	Y	Ì.	M	/Gi	FTSC	HIC	κI	.ITT)	LE 8	٤W	EBE	r, p.a.	
ML.	EN	GINI	ERS,	LAND	SURVE	YORS	, LAN) PLAN	INERS	, LAN	DSCAP	E ARCHITE	CTS
. 1	·	. '	3909	NATION	and have added		ITE 250		C 90 112 CE		FICE PAR	K	

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

TAMA

<u> Recharded and a start and a start a </u>

145

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Witter 7. Mahall.

Chief, Bureau of Highways

Chief, Division of Lond Development

Chief, Development Engineering Division

Cindy

- C

TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

\Drawings\03006\PHASEII\FINALS\03006_02F-CS.dwg DES. BJM DRN. BJM CHK. mit

OWNER PARCEL E' BA WATERLOO CONDOMINIUM, LLC c/o BOZZUTO HOMES, INC. 1850 WALKER DRIVE, SUITE 400 GREENBELT, MARYLAND 20TTO ATTN: BOB ANDREMS

CO-11-10

DATE

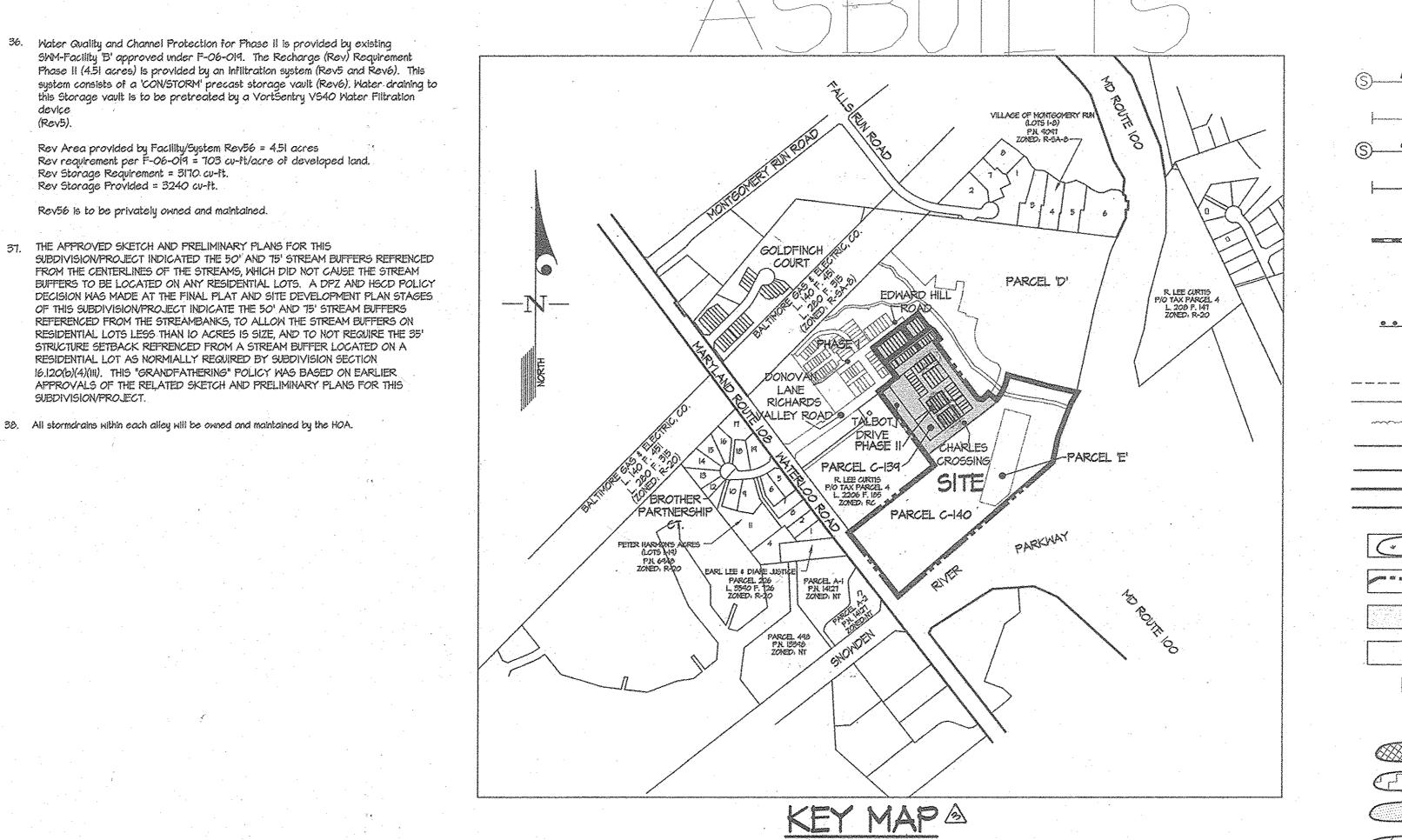
PHONE: 301-623-3638

tuigening		
		· .

>	Update Property Lines Per Pl.	
	a a a a a a a a a a a a a a a a a a a	NAME OF COMPANY
	τ · · · · · · · · · · · · · · · · · · ·	

FINAL PLAN SHIPLEY'S GRANT C-99, C-106 thru C-126, C-238 thru C-243 and C-244 thru C-255, ÓPEN SPACE LOTS C-135 thru C-137 COMMON OPEN SPACE LOT C-138, BUILDABLE PARCELS C-139 & C-140 AND NON BUILDABLE PARCEL E

A RESUBDIVISION OF BUILDABLE PARCELS "C-70" THRU "C-72", SHIPLEY'S GRANT PHASE 1, PLAT NOS. 19232 THRU 19234 AND A REVISION TO NON-BUILDABLE PARCEL "E"; PLAT Nos. 18736 & 18737



SCALE: 1" = 500'

DEVELOPMENT TRACKING CHART AND SITE ANALYSIS

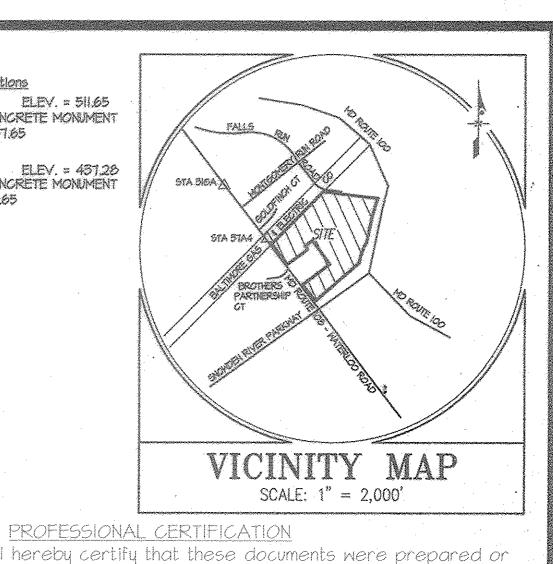
**************************************			& & & & & & & & & & & & & & & & & & &	R-A-	-15 ZONE AREAS	2.		****	900/990 90	######################################	, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·		B-1 ZC
100 YR.	6 (January	SFA	MIN.	CREDITED	NON-CREDITED	TOTAL O/S	MIN. REQ'D.	REC. 0/5	MIN. REQ'D.	TND 0/S	APT.	PUBLIC	PRIVATE	GRO
LOOD PLAIN	NET	LOTS	REQ'D. 0/5	0/S PROV. 2	0/S PROVIDED	PROVIDED	REC. 0/5 ³	PROVIDED	TND 0/54	PROVIDED	PARCELS	ROADS	ROADS	ACRE
1.36 AC.	12.27 AC.	2.15 AC.	3.4 AC.	8.2 AC. (60%)	0.4 AC.	8.6 AC.	24,800 S.F.	56,477 S.F.	0.7 AC./29,612 S.F.	0.9 AC/39,810 S.F.	O AC.	2.0 AC.	0.9 AC.	4.2/
O Ac.	5.81 AC.	2.34 AC.	15 AC.	0.6 AC. (10%)	0.1 AC.	0.7 AC.	24,800 S.F.	28,248 S.F.	0.3 AC/13,068 S.F.	0.9 AC./40,144 S.F.	O AC.	2.1 AC.	0.7 AC.	01
1.36 AC.	18.08 AC.	4.49 AC.	4.9 AC.	8.8 AC. (45%)	0.5 AC.	9.3 AC.	49,600 S.F.	85,493 S.F.	1.0 AC/42,680 S.F.	1.8 AC/719,954 S.F.	O AC.	4.1 AC.	1.6 AC.	4.2 /
USLY RECOR	DED UNDER	RF 06-01	4		«			*******			. .	,		

			R-/	4-15 UNIT TAE	WLATION				
		MAXIMUM NUMBER OF UNITS PERMITTED				PROPOSED R-A-15 UNITS			
E (O/S) IS CALCULATED AS 25% OF THE GROSS AREA. ED IS OF THE GROSS AREA.	PHASE No.	NET	MAX. UNIT DENSITY (15 UNITS/NET AC.)	REQUIRED MIHU'S @ 10%	1	MIHU SFA UNITS	APT. UNITS	TOTAL UNITS	p
	PHASE I	12.27 AC.	184	6.2	52	10	0	62	
N OPEN SPACE (ROS) IS CALCULATED AS 400 S.F. PER UNIT. L NEIGHBORHOOD 0/S IS CALCULATED AS 20% OF THE REQUIRED OPEN SPACE.	PHASE II	5.81 AC.	81	6.2	56	6	0	62	10
		18.08 AC.	271	12.4	108	16	0	124	6

			PREPARED FOR AND OWNER PARCELS C-70 THRU C-72:	
			BA WATERLOO TOWNHOMES, LLC	A SI
			c/o BOZZUTO HOMES, INC. 7850 WALKER DRIVE SUITE 400	Loto C-73 thru C-00, C-100
₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩			GREENBELT, MARYLAND 20770	Loto C-73 thru C-90, C-100 C-244 thru C-255, Open Space Lo BUILDABLE PARCELS
	L way		ATTN: BOB ANDREWS 301-6233638	A RESUBDIVISION OF BUILDABLE PARCE
	I BY	APP'R.		ELECTION DISTRICT No. 1 AND A REVISION T

Howard County Control Stations ELEV. = 511.65 STANDARD DISC ON CONCRETE MONUMENT N 564925,75, E 1367,067,65

31A4 ELEV. = 431.28 STANDARD DISC ON CONCRETE MONUMENT N 563,835.91, E 1,367,971.65



approved by me, and that I am a duly licensed professional

engineer under the laws of the State of Maryland, License

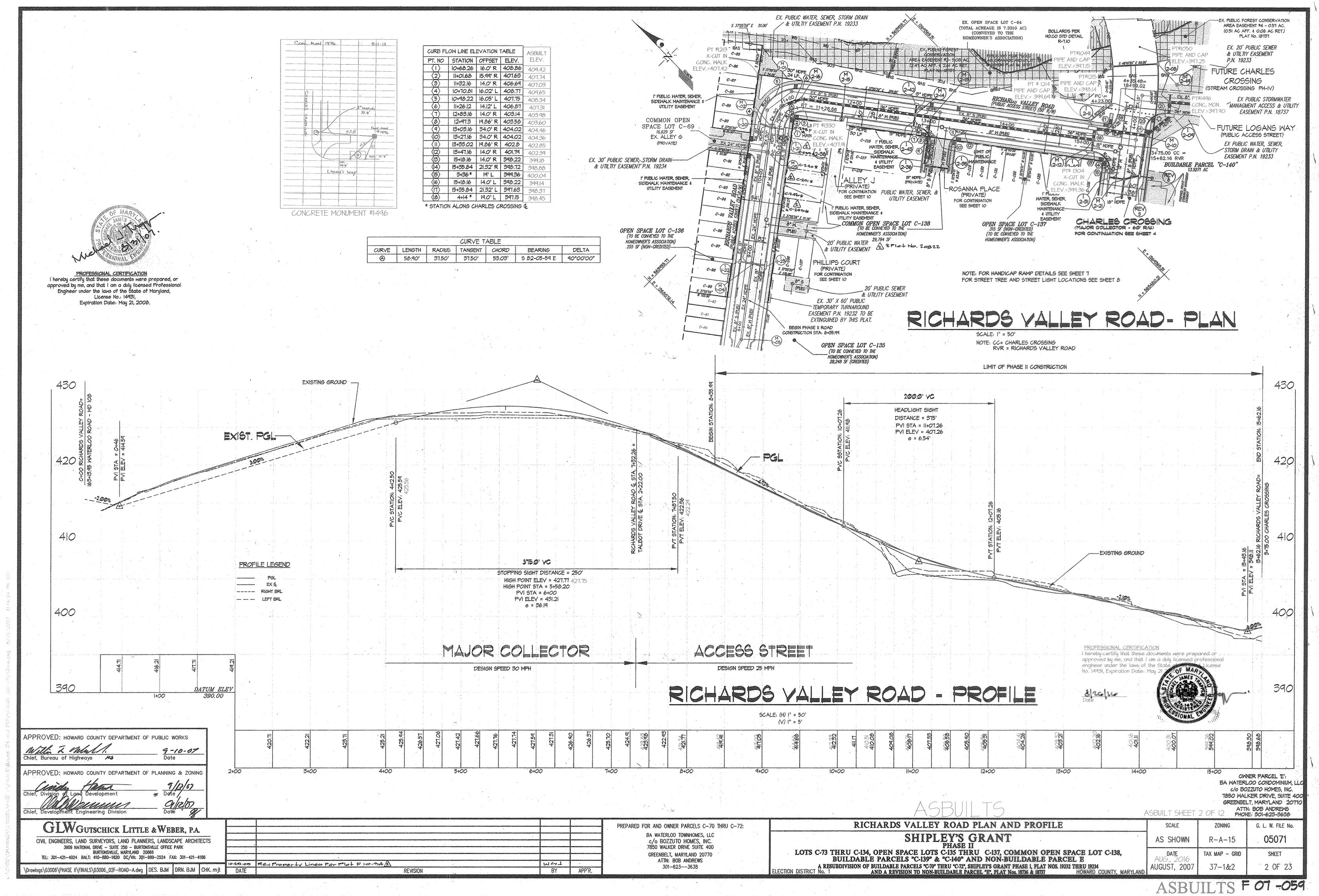
LEGEND

EGEND			ngineer under the laws of th 5. 14931, Expiration Date: M			Maryli	and, L	icense
an a	EXIST. CURB & GUTTER/PAVEMEN	IT			STREET CF	MAR		. ,
الم	STANDARD CURB & GUTTER		4 		SISA	2012	3	
	PROPOSED REVERSE		Station	M			lel/	e .
EX. 8" S.	TEMPORARY BITUMINOUS CURB CURB & GU	UTTER	ale			YA9DO	i inte Steinte	er
S)(S)	EXISTING SEVER MAIN			3	The sing	NAL		4931
- - - - - - - - - - - - - - - -	EXISTING WATER MAIN		IEDT KINTY				•	
S <u>8" S.</u> S	PROPOSED SEVER MAIN		IEET INDEX					
φ. <i>8" W</i> .	PROPOSED WATER MAIN		Cover Sheet RICHARDS VALLEY ROAD PLAN		ROFILE			
EX. 18"SD	EXISTING STORM DRAIN	3 4 5	TALBOT DRIVE PLAN AND PROF CHARLES CROSSING PLAN AND				•	
	PROPOSED STORM DRAIN	6	ROAD DETAILS ROAD DETAILS			•	· · · ·	
	PROPOSED SIDEWALK	7 8 9	HANDICAP RAMP DETAILS PAVING MARKING - SIGNAGE - SEDIMENT & EROSION CONTROL			id light	ING PLA	N
(4)	NUMBER OF PARKING SPACES		SEDIMENT & EROSION CONTROL GRADING & SEDIMENT CONTROL GRADING & SEDIMENT CONTROL	PLAN	127X		· ·	
	PROP. BARRICADE	€ 12 13	GRADING & SEDIMENT CONTROL GRADING & SEDIMENT CONTROL SEDIMENT EROSION CONTROL D	PLAN	AND NOT	ES		
(MH 20)	STRUCTURE NUMBER	● 14● 15	STORM DRAIN PROFILES STORM DRAIN PROFILES	nne e z 315energet T	and (3964)			- - - - - -
\bigcirc	EXISTING CONTOUR	●16 IT	STORM DRAIN PROFILES STORM DRAIN DRAINAGE AREA	MAP				
	PROP. CONTOUR	18 19	STORM DRAIN'DRAINAGE AREA MD-108 IMPROVEMENT AND SEC	MAP	ONTROI	PLAN		
• • •	EXISTING TREELINE	20		ENT CON	ITROL PL	AN AND		3
	25' KETLAND BUFFER	22	MD-100 PAVING DELINEATION -	STRIPIN				DETAILS
	STREAM BUFFER	23	EXISTING SHA SIGNAGE PHOTOS	>				
underlingenen med ander sollter eine sollter eine sollter sollter eine sollter sollter sollter sollter sollter R de	CENTERLINE OF STREAM							
	WETLAND		SFA PARKING ANA	LYSI	9			
	LIMIT OF SUBMISSION		Total Parking Required: 62 units x 2 s Garages: 112 Spaces (2 Car Garag		nt = 124	Spaces		· · · · · ·
			6 Spaces (12 Cor Garage 6 Spaces (1 Car Garage 12 Spaces Off-Street Pi	> - MH化的	5)			• •
	PROPOSED / EXISTING EASEMENT	*	Total: 130 Spaces	va ran ng		• .		
	PROPOSED PAVEMENT		Overflow/Guest Parking Requirements (2.8.2)
C-135	MIHU OFF-STREET PARKING SPAC (LOT SPECIFIC)		Parking Required: 62 units x 0.3 sp Overflow/Guest Parking available: :	илсь ре 29 Space	es (On-Si	reet Pa	rking)	
\odot	STREET TREE			ACAPACITIES				s.
	ON-SITE AFFORESTATION AREA I	252 5.06.014				(Sean	M	. *
CTTTP	FLOODPLAIN FOREST RETENTION (NO CREDIT FOR RETENTION)				ED.			
	NET TRACT FOREST RETENTION PI	ER F-06-019		A P	A SP	by.	-··.	
TITT			Ar all	1010 VO	intersection			
Malanni da cana	AFFORESTATION AREA IN THE FLO NATURAL FOREST REGENERATION		-06-019 I hereby certify		<u>l CERTIF</u> e docume		prepare	d, or
	FOREST REMOVAL AREA IN THE FL			and that ler the la	i am a di We of the	viy license State ol	ed Protes	ssionai
B-I ZONE POR ZONE	· · · ·		۳»	Licen	se No.: 14 7ate: May	1931,	÷.	*
GROSS GROSS			A	SBU	LTS	HEE	TIC	DF 12
ACREAGE ACREAGE		EXISTING FOREST	CONSERVATION EASEMENT AREA TABULATION	ON (SEE F	-06-19)	۵٬۹۶۰٬۱۰۰٬۱۰۰٬۱۰۰٬۱۰۰٬۱۰۰٬۱۰۰٬۱۰۰٬۱۰۰٬۱۰۰٬۱	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
0 Ac. 0 AC.		andra talayik ay ay ang	ION EASEMENT (FCE) AREA	1	2	3	4	
4.2 AC. 0 AC.	۲. 	PARCEL WHERE FCE		c	l c	l c	C C	TOTAL
		an a	ETENTION AREA ON NET TRACT (IN AC.)	N/A	1.40	0.08	N/A	1.48
1hiter		د. مەنەر ئەرىمە مەرەمە يەرەمە يەرەپىيە يەرەپىيە يەرەپىيە بىرىمە يەرەپىيە يەرەپىيە يەرەپىيە يەرەپىيە يەرەپىيە يەرەپ يەرەپىرى يەرەپىيە يەر	EST RETENTION AREA IN FLOODPLAIN (IN AC.)	N/A	1.21	0.30	0.06	1.57
UNITS DTAL PROPOSED UNIT		ani, (yeraitere) tekana menerinti a terdirteren jost	REA OUTSIDE THE FLOODPLAIN (IN AC.)	0.27	2.33	0.32	0.46	3.38
NITS DENSITY		, 	IREA WITHIN THE FLOODPLAIN (IN AC.)	N/A	0.14	0.04	0.05	0.23
62 5 UNITS / NET AC		ىمىرى يېرىكى بىرى بىرى بىرى بىرى بىرى بىرى بىرى	AFFORESTATION PROVIDED (IN AC.)	0.27	2.47	0.36	0.03	3.61
62 10.7 UNITS / NET A	<u><u> </u></u>	ĸĮčenum, karų, daro žaubydaiteženomu, žennišymas – spežitarovininkų petrič	TION AREA (IN AC.)		**************************************	en utana antara antara antara		
24 6.9 UNITS / NET AC			AIRT AREA (IN AL.)	N/A	N/A	N/A	N/A	N/A

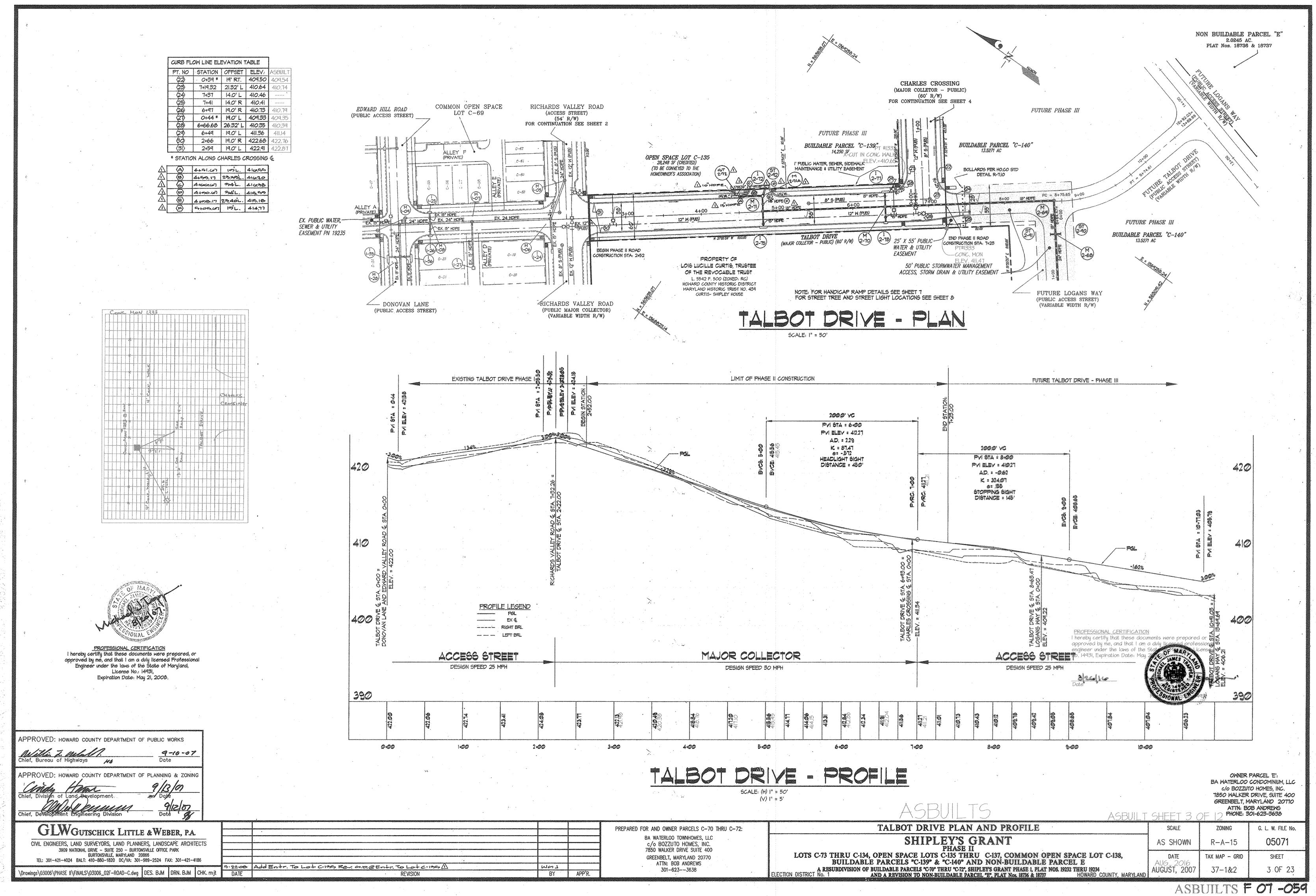
	A CASTA
3	Section Constant
	S. S
	The second se

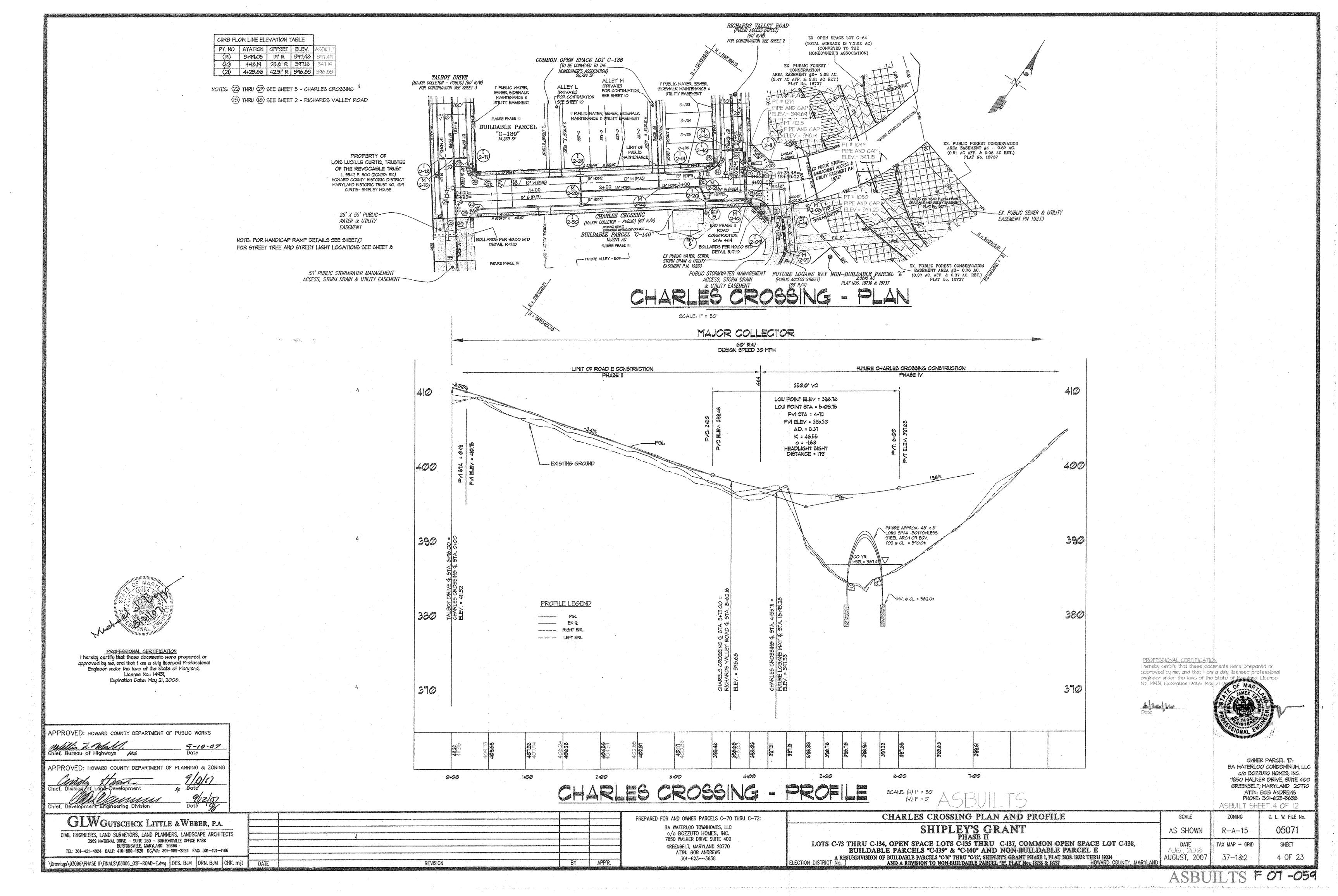
ASBUILT SHEET | OF ACRE 4.2 ON EASEMENT AREA TABULATION (SEE F-06-19) 0, (FCE) AREA 2 42 TOTAL C Ç C ON NET TRACT (IN AC.) N/A | 1.40 80.0 N/A AREA IN FLOODPLAIN (IN AC. 1.21 0.30 N/A 0.06 THE FLOODPLAIN (IN AC.) 0.27 2.33 0.32 0.46 3.38 N/A 0.14 0.04 0.05 0.23 FLOODPLAIN (IN AC.) 0.27 2.47 0.36 0.51 PROVIDED (IN AC.) 3.61 N/A N/A N/A N/A N/A MINIMUM TOTAL AREA IN CONSERVATION EASEMENT (IN AC.) 0.27 5.08 0.74 0.57 6.66 COVER SHEET G. L. W. FILE NO. SCALE ZONING HIPLEY'S GRANT - Phase II ato thru c-126, c-238 thru c-243 and ato C-135 thru C-137, Common Open Space Lot C-138 05071 AS SHOWN R-A-15 DATE TAX MAP - GRID SHEET C-139" & "C-140" AND NON-BUILDABLE PARCEL E ELS °C-70° THRU °C-72°. SHIPLEY'S GRANT PHASE 1, PLAT NOS. 19232 THRU 19234 **AUGUST**, 2007 37-1&2 1 OF 23 O NON-BUILDABLE PARCEL "E", PLAT Nos. 18736 & 18737 HOWARD COUNTY, MARYLAND

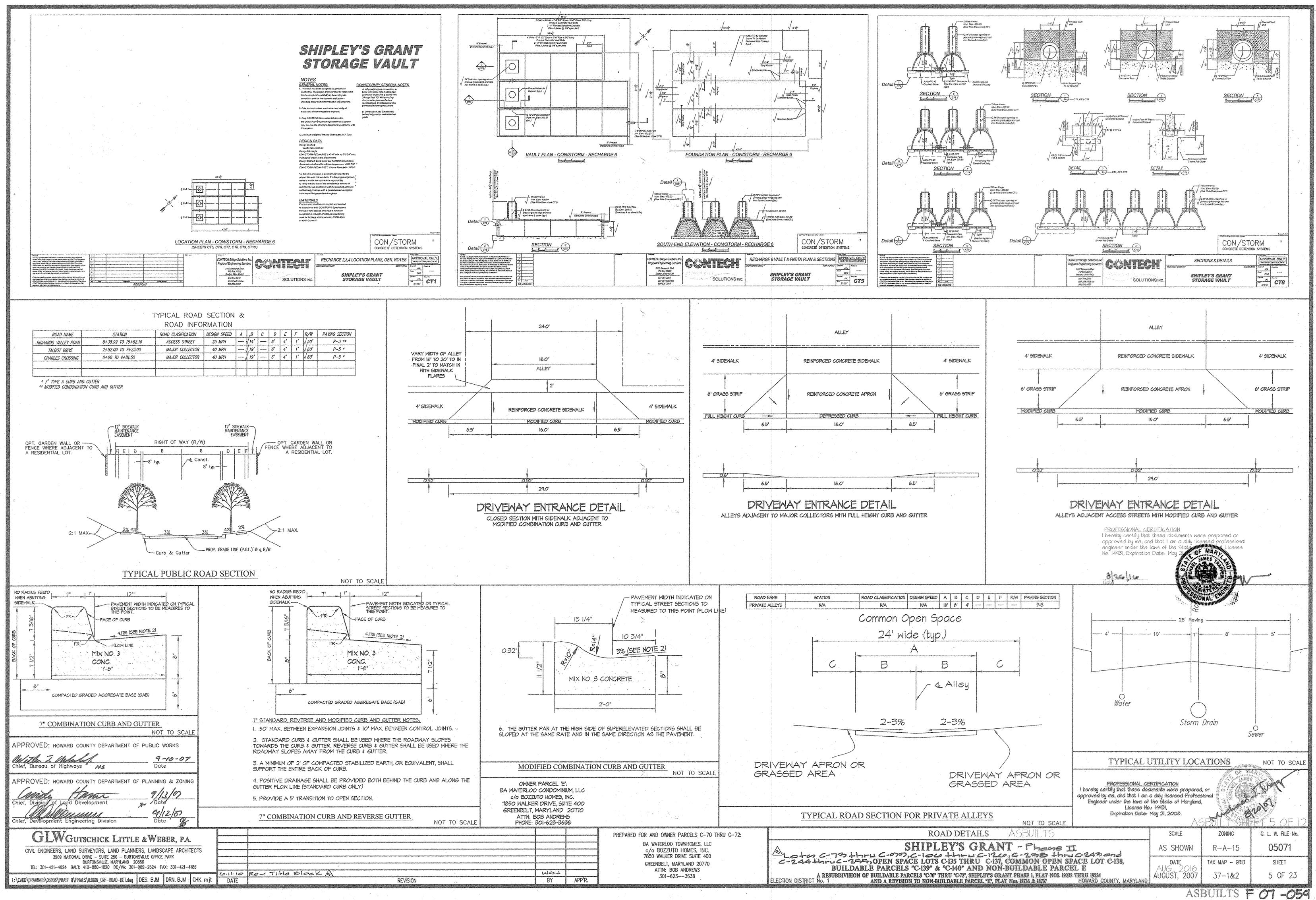
ASBUILTS F 01 -059

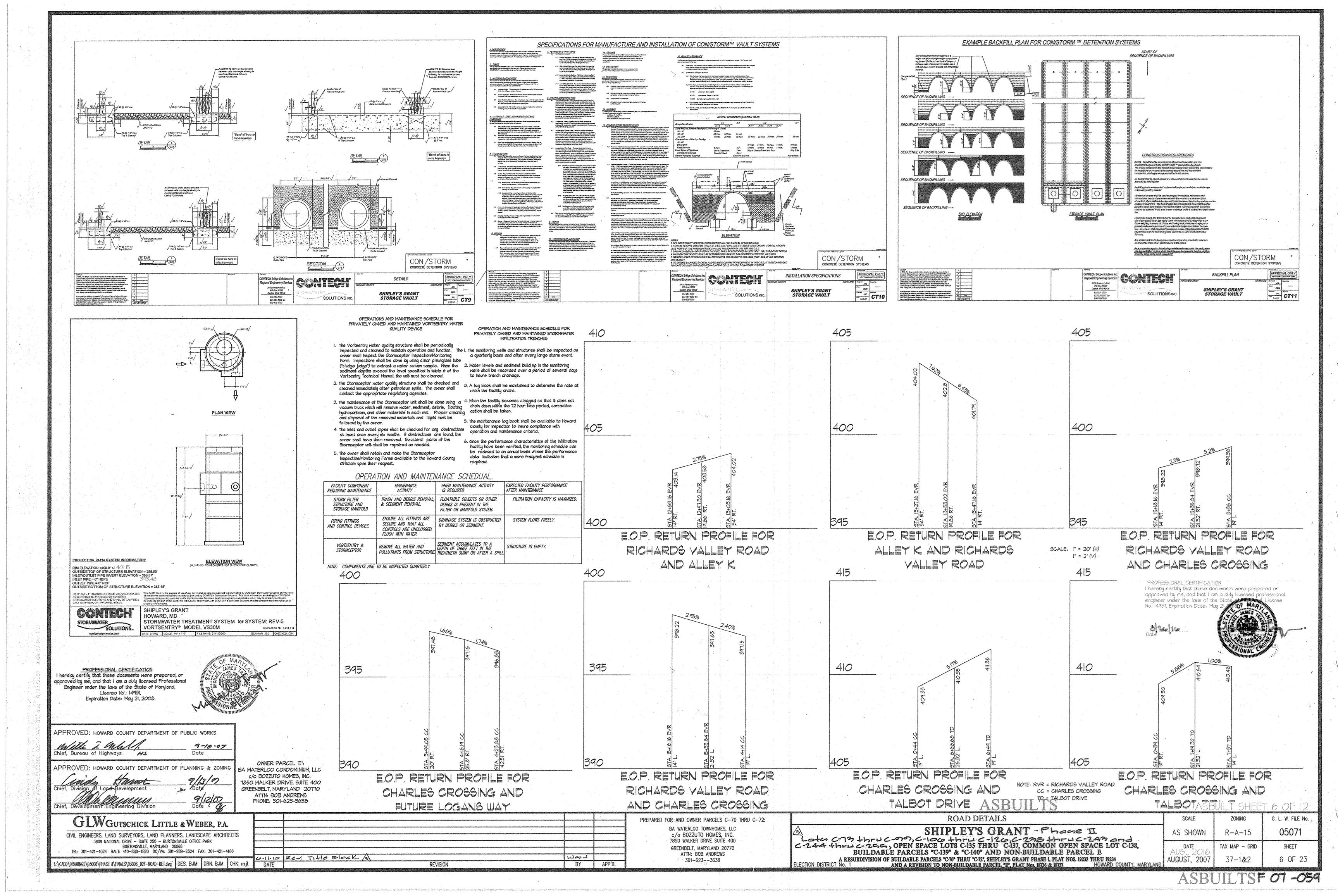


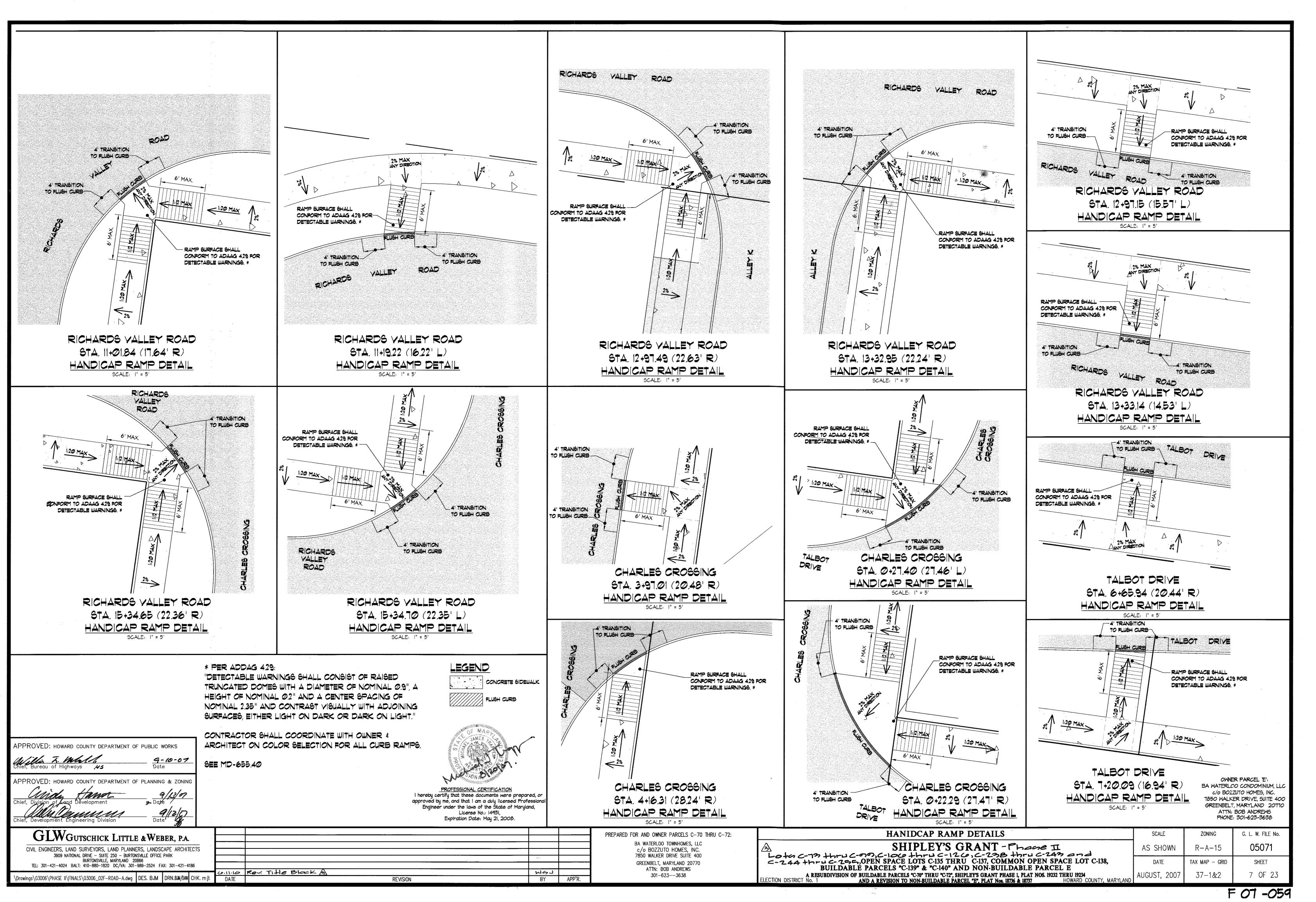
		2	BUILDAI	8L.	e pa	R
· · ·		A	RESUBDIVISION	OF	BUILD	AB
3 CATIAN	NATIONAT	4.5				

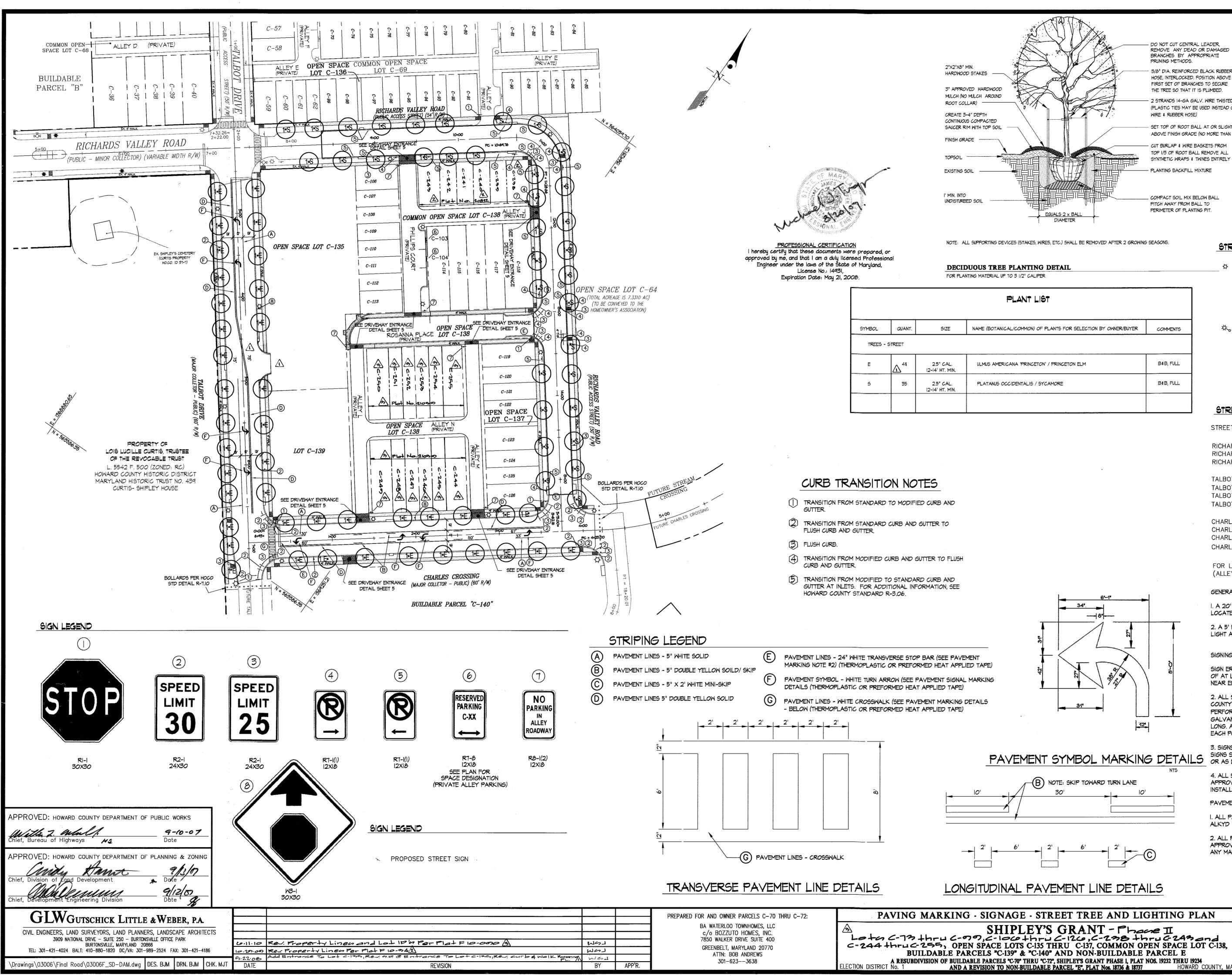












DO NOT OUT CENTRAL LEADER. REMOVE ANY DEAD OR DAMAGED BRANCHES BY APPROPRIATE PRUNING METHODS.

3/8" DIA. REINFORCED BLACK RUBBER HOSE, INTERLOCKED. POSITION ABOVE FIRST SET OF BRANCHES TO SECURE THE TREE SO THAT IT IS PLUMBED.

2 STRANDS 14-GA GALV. WIRE TWISTED (PLASTIC TIES MAY BE USED INSTEAD OF WIRE & RUBBER HOSE)

SET TOP OF ROOT BALL AT OR SLIGHTLY ABOVE FINISH GRADE (NO MORE THAN 3"). CUT BURLAP & WIRE BASKETS FROM TOP 1/3 OF ROOT BALL REMOVE ALL

PLANTING BACKFILL MIXTURE

COMPACT SOIL MIX BELOW BALL PITCH AWAY FROM BALL TO PERIMETER OF PLANTING PIT.

STREET TREE SCHEDUL	
LINEAR FEET OF CURBLINE	2730 L.F.
NUMBER OF STREET TREES REQUIRED: STREET TREES (1:40)	68
NUMBER OF STREET TREES PROVIDED STREET TREES OTHER TREES (2:1 SUBSTITUTION)	†1 0

STREET LIGHT LEGEND

PLANT LIST	
ICAL/COMMON) OF PLANTS FOR SELECTION BY OWNER/BUYER	COMMENTS
	· .
RICANA 'PRINCETON' / PRINCETON ELM	B¢B, FULL
OCCIDENTALIS / SYCAMORE	B\$B, FULL

100 WATT HIGH PRESSURE SODIUM VAPOR TRADITIONAIRE POST TOP FIXTURE MOUNTED ON A 14-FOOT BLACK FIBERGLASS EMBEDDED POLE

☆。 PROPOSED STREET LIGHT 250 WATT HIGH PRESSURE (LOCATED 4' BEHIND THE BACK OF CURB) SODIUM VAPOR COBRA STYLE FIXTURE (CUT OFF OPTICS) MOUNTED AT A HEIGHT OF 30' ON A BREAK AWAY TRANSFORMER BASE STREET LIGHT POLE WITH A 12' ARM

STREET LIGHT LOCATIONS

STREET	STATION	OFFSET
RICHARDS VALLEY ROAD	9+17	19 RIGHT
RICHARDS VALLEY ROAD	10+99	19 LEFT
RICHARDS VALLEY ROAD	13+48	19 RIGHT
TALBOT DRIVE	2+94	22 RIGHT
TALBOT DRIVE	4+12	22 LEFT
TALBOT DRIVE	5+30	22 RIGHT
TALBOT DRIVE	6+54	22 RIGHT
CHARLES CROSSING	0+39	22 RIGHT
CHARLES CROSSING	1+50	22 LEFT
CHARLES CROSSING	2+88	22 LEFT
CHARLES CROSSING	4+14	22 LEFT

FOR LOCATIONS OF PRIVATE STREET LIGHTS SEE PLAN (ALLEY H).

GENERAL NOTES:

I. A 20' MINIMUM DISTANCE SHALL BE MAINTAINED BETWEEN ANY TREES LOCATED ALONG THE CURB LINE AND ANY STREET LIGHT.

2. A 5' MINIMUM DISTANCE SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND A FIRE HYDRANT.

SIGNING NOTES:

SIGN ERECTED AT THE SIDE OF THE ROAD SHALL BE MOUNTED AT A HEIGHT OF AT LEAST 7 FEET MEASURES FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVING.

2. ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1//2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.

3. SIGNS SHALL BE 12" TO 18" FROM EDGE OF SIGN TO CURBLINE. STOP SIGNS SHALL BE LOCATED 15' BACK FROM INTERSECTING STREET CURB LINE OR AS DIRECTED BY HOWARD COUNTY TRAFFIC DIVISION.

4. ALL SIGN LOCATIONS WITHIN THE PUBLIC RIGHT OF WAY SHALL BE APPROVED BY THE HOWARD COUNTY TRAFFIC DIVISION PRIOR TO ANY INSTALLATIONS.

PAVEMENT MARKING NOTES

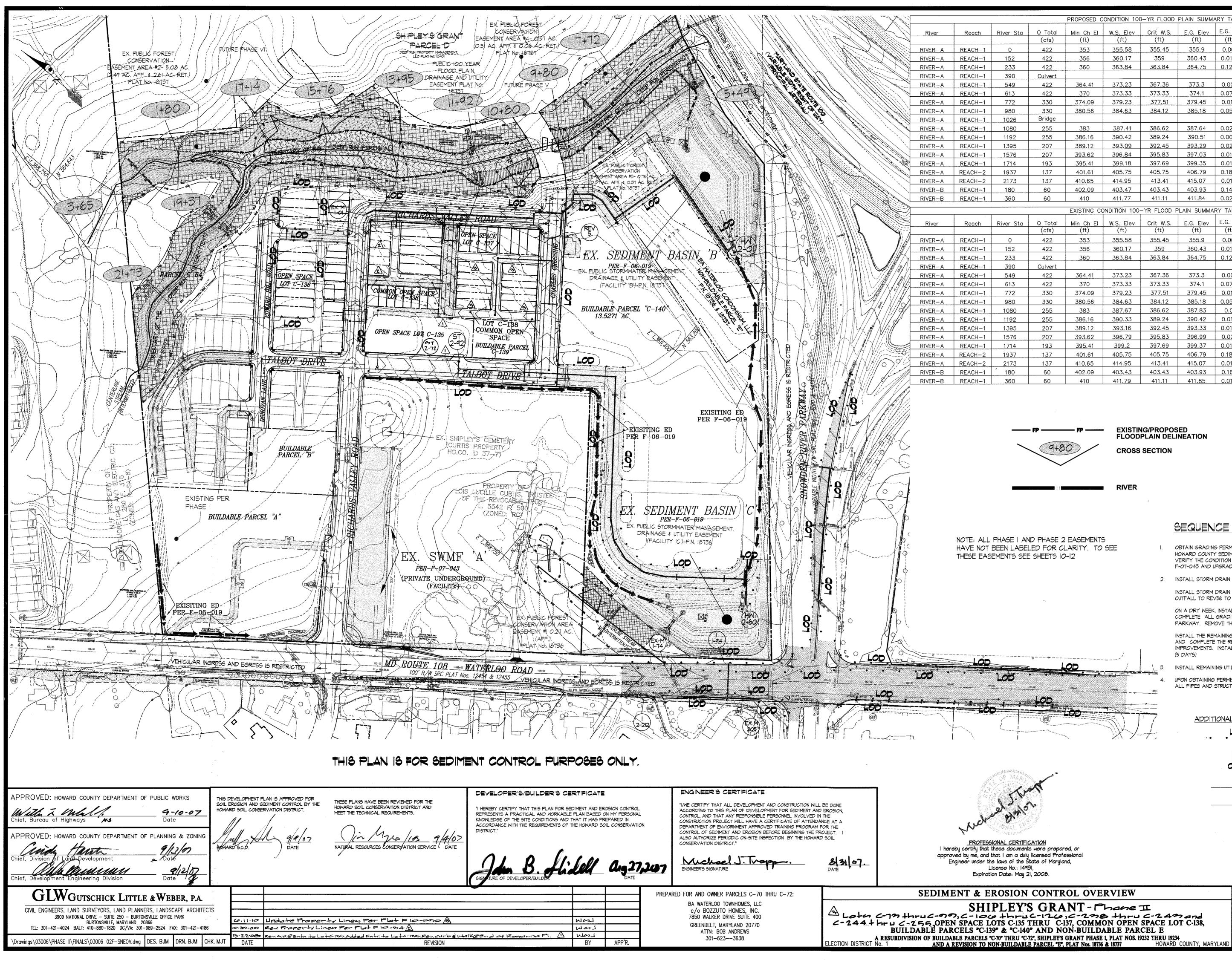
I. ALL PAVEMENT MARKINGS TO BE APPLIED USING "SETFAST PREMIUM ALKYD TRAFFIC PAINT" BY SHERWIN WILLIAMS OR APPROVED EQUAL.

2. ALL PAVEMENT MARKINGS ARE TO BE EITHER LOCATED OR APPROVED BY THE TRAFFIC DIVISION PRIOR TO THE PLACEMENT OF ANY MARKINGS

OWNER PARCEL 'E': BA WATERLOO CONDOMINIUM, LLC c/o BOZZUTO HOMES, INC.

1850 WALKER DRIVE, SUITE 400 GREENBELT, MARYLAND 20170

			08 ANDREWS 301-623-3638
NAGE - STREET TREE AND LIGHTING PLAN	SCALE	ZONING	G. L. W. FILE No.
HPLEY'S GRANT - Phane II 100+hru C-126, C-238+hru C-243 and	1"= 50'	R-A-15	05071
LOTS C-135 THRU C-137, COMMON OPEN SPACE LOT C-138, C-139" & "C-140" AND NON-BUILDABLE PARCEL E	DATE	TAX MAP – GRID	SHEET
LS *C-70* THRU *C-72*, SHIPLEY'S GRANT PHASE 1, PLAT NOS. 19232 THRU 19234 TO NON-BUILDABLE PARCEL *E*, PLAT Nos. 18736 & 18737 HOWARD COUNTY, MARYLAND	AUGUST, 2007	37–1&2	8 OF 23



		ENGINEER'S CERTIFICATE			Developer's/Builder's Cei	Ι
l hereby cer approved by Engineer	PEROSION, I THE NOCE AT A FOR THE ROJECT. I	"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AN CONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED I CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTEND DEPARTMENT OF ENVIORMENT APPROVED TRAINING PROGRAM CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE F ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWAF CONSERVATION DISTRICT."	Y PERSONAL RED IN	PLAN BASED C THAT IT WAS PR THE HOWARD SO	"I HEREBY CERTIFY THAT THIS PLAN FOR SET REPRESENTS A PRACTICAL AND WORKABLE KNOWLEDGE OF THE SITE CONDITIONS AND T ACCORDANCE WITH THE REQUIREMENTS OF T DISTRICT."	>
SEDIMENT		RED FOR AND OWNER PARCELS C-70 THRU C-72:	PREPA			
ニーファン・トーロン・のの、こ ファロン・255、OPEN SPA BUILDABLE PARCEL RESUBDIVISION OF BUILDABLE PA 0.1 AND A REVISI	2-244++	BA WATERLOO TOWNHOMES, LLC c/o BOZZUTO HOMES, INC. 7850 WALKER DRIVE SUITE 400 GREENBELT, MARYLAND 20770 ATTN: BOB ANDREWS 301-6233638	APP'R.	Wend Wend Wend BY	Keend of Romanna Pl. A	

			PROPOSED C	ONDITION 100)-YR FLOOD	PLAIN SUMMA	ARY TABLE		• •		
					_					T 147-141-	Froude #
Reach	River Sta	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	<u>Crit W.S.</u> (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Chl
		422		355.58	355.45	355.9	0.06065	5.93	107.65	107	0.72
EACH-1 EACH-1	0 152	422	353 356	360.17	359	360.43	0.08085	4.32	112.77	51.57	0.72
ACH-1	233	422	360	36 <u>3</u> .84	363.84	364.75	0.126958	7.67	55.03	30.57	1.01
ACH-1	390	Culvert	000	505.04	505.0+	504.75	0.120300	7.07	00.00	00.07	
ACH-1	549	422	364.41	373.23	367.36	373.3	0.002181	2.06	205.13	26	0.13
ACH-1	613	422	370	373.33	373.33	374.1	0.077367	7.55	68.68	49.95	0.84
ACH-1	772	330	374.09	379.23	377.51	379.45	0.016113	3.98	100.73	56.91	0.38
ACH-1	980	330	380.56	384.63	384.12	385.18	0.053494	6.11	64.05	57.88	0.67
EACH-1	1026	Bridge									
ACH-1	1080	255	. 383	387.41	386.62	387.64	0.020992	4.26	91.5	78.16	0.43
ACH-1	1192	255	386.16	390.42	389.24	390.51	0.009464	3.15	141.37	99.18	0.29
ACH-1	1395	207	389.12	393.09	392.45	393.29	0.022789	4	75.58	86.86	0.43
ACH-1	1576	207	393.62	396.84	395.83	397.03	0.018583	3.57	69.3	48.27	0.4
ACH-1	1714	193	395.41	399.18	397.69	399.35	0.015496	3.43	70.52	58.25	0.36
ACH-2	1937	137	401.61	405.75	405.75	406.79	0.185837	8.17	16.77	8.1	1
ACH-2	2173	137	410.65	414.95	413.41	415.07	0.014152	3.09	67.7	57.93	0.33
ACH-1	180	60	402.09	403.47	403.43	403.93	0.143224	5.44	11.04	10.94	0.95
ACH-1	360	60	410	411.77	411.11	411.84	0.020565	2.12	28.26	27.91	0.37
			EXISTING CO	NDITION 100-	-YR FLOOD F	LAIN SUMMA	RY TABLE				
Jonah	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
Reach	Kiver Stu	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
EACH-1	0	422	353	355.58	355.45	355.9	0.06065	5.93	107.65	107	0.72
EACH-1	152	422	356	360.17	359	360.43	0.018387	4.32	112.77	51.57	0.43
EACH-1	233	422	360	363.84	363.84	364.75	0.126958	7.67	55.03	30.57	1.01
EACH-1	390	Culvert									
EACH-1	549	422	364.41	373.23	367.36	373.3	0.002181	2.06	205.13	26	0.13
EACH-1	613	422	370	373.33	373.33	374.1	0.077367	7.55	68.68	49.95	0.84
EACH-1	772	330	374.09	379.23	377.51	379.45	0.016113	3.98	100.73	56.91	0.38
EACH-1	980	330	380.56	384.63	384.12	385.18	0.053494	6.11	64.05	57.88	0.67
ACH-1	1080	255	383	387.67	386.62	387.83	0.0138	3.65	113.07	89.48	0.36
EACH-1	1192	255	386.16	390.33	389.24	390.42	0.011019	3.34	132.37	95.66	0.31
ACH-1	1395	207	389.12	393.16	392.45	393.33	0.019853	3.8	81.84	90.68	0.4
ACH-1	1576	207	393.62	396.79	395.83	396.99	0.020211	3.67	66.9	47.06	0.42
ACH-1	1714	193	395.41	399.2	397.69	399.37	0.014945	3.39	71.91	59.28	0.35
ACH-2	1937	137	401.61	405.75	405.75	406.79	0.185837	8.17	16.77	8.1	1
ACH-2	2173	137	410.65	414.95	413.41	415.07	0.014152	3.09	67.7	57.93	0.33
ACH-1	<u>í 180</u>	60	402.09	403.43	403.43	403.93	0.161133	5.67	10.59	10.78	1.01
ACH-1	360	60	410	411.79	411.11	411.85	0.019716	2.09	28.7	28.12	0.36

EXISTING/PROPOSED FLOODPLAIN DELINEATION

SEQUENCE OF CONSTRUCTION

OBTAIN GRADING PERMIT AND ARRANGE THE PRE-CONSTRUCTION MEETING WITH THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR (SCI). (I DAY) VERIFY THE CONDITION OF THE EXISTING SEDIMENT CONTROLS FROM F-06-19 AND F-07-043 AND UPGRADE AND REPAIR AS NECESSARY.

2. INSTALL STORM DRAIN FROM HW-2-60 TO ST-2-92 (5 DAYS)

INSTALL STORM DRAIN FROM HW-2-01 TO EX-MH-1-01. (5 DAYS) OUTFALL TO REV56 TO REMAIN BLOCKED UNTIL PERMISSION OF SCI IS OBTAINED.

ON A DRY WEEK, INSTALL STORMORAIN FROM 1-2-212 TO EX-M-205 & 1-1-94 AND COMPLETE ALL GRADING IN THE MD-108 RIGHT OF WAY EAST OF SNOWDEN RIVER PARKWAY. REMOVE THE 15" TEMPORARY PIPE AND BLOCK OPENING AT MH-I-74. (5 DAYS)

INSTALL THE REMAINING STORMORAIN ALONG MO-108 AND SNOWDEN RIVER PARKWAY, AND COMPLETE THE REMAINING MD-108 AND SNOWDEN RIVER PARKWAY IMPROVEMENTS. INSTALL INLET PROTECTION ON ALL INLETS AS SHOWN ON SHEETS 19\$20 (5 DAYS)

INSTALL REMAINING UTILITIES, PAVEMENT, AND STABILIZE THE SITE. (2 WEEKS)

UPON OBTAINING PERMISSION OF THE SCI, FLUSH ALL STORM DRAIN AND PUMP CLEAN ALL PIPES AND STRUCTURES AND UNBLOCK OUTFALL TO REV 5.

	ADDITIONAL	LEGEND FO	OR SEDIMEN	IT CONTRO	L FEATURES
	· • • •		IMIT OF DI	STURBANCE	
<u>ر</u>	 c	and the second	NLET PROTI BEE DETAIL		; ·
T I I I I I I I I I I I I I I I I I I I	,	- SSF E	EX. SUPER S	ILT FENCE	
		SSF F	ROPOSED	SUPER SIL1	FENCE
<u>vTION</u> were prepared, or censed Professional te of Maryland, 2008.		BA WATERL c/o BO 1850 WALI GREENBEL ATTN	NER PARCEL S .00 CONDOMI ZZUTO HOMES KER DRIVE, S .T, MARYLAND I.: BOB ANDRE	NIUM, LLC , INC. UITE 400 > 20770 EWS	
CONTROL OVERVIEW		SCALE	E: 301-623-3	zoning	G. L. W. FILE No.
GRANT-Phane II		1"=100		-A-15	05071

DATE

AUGUST, 2007

F 07 -059

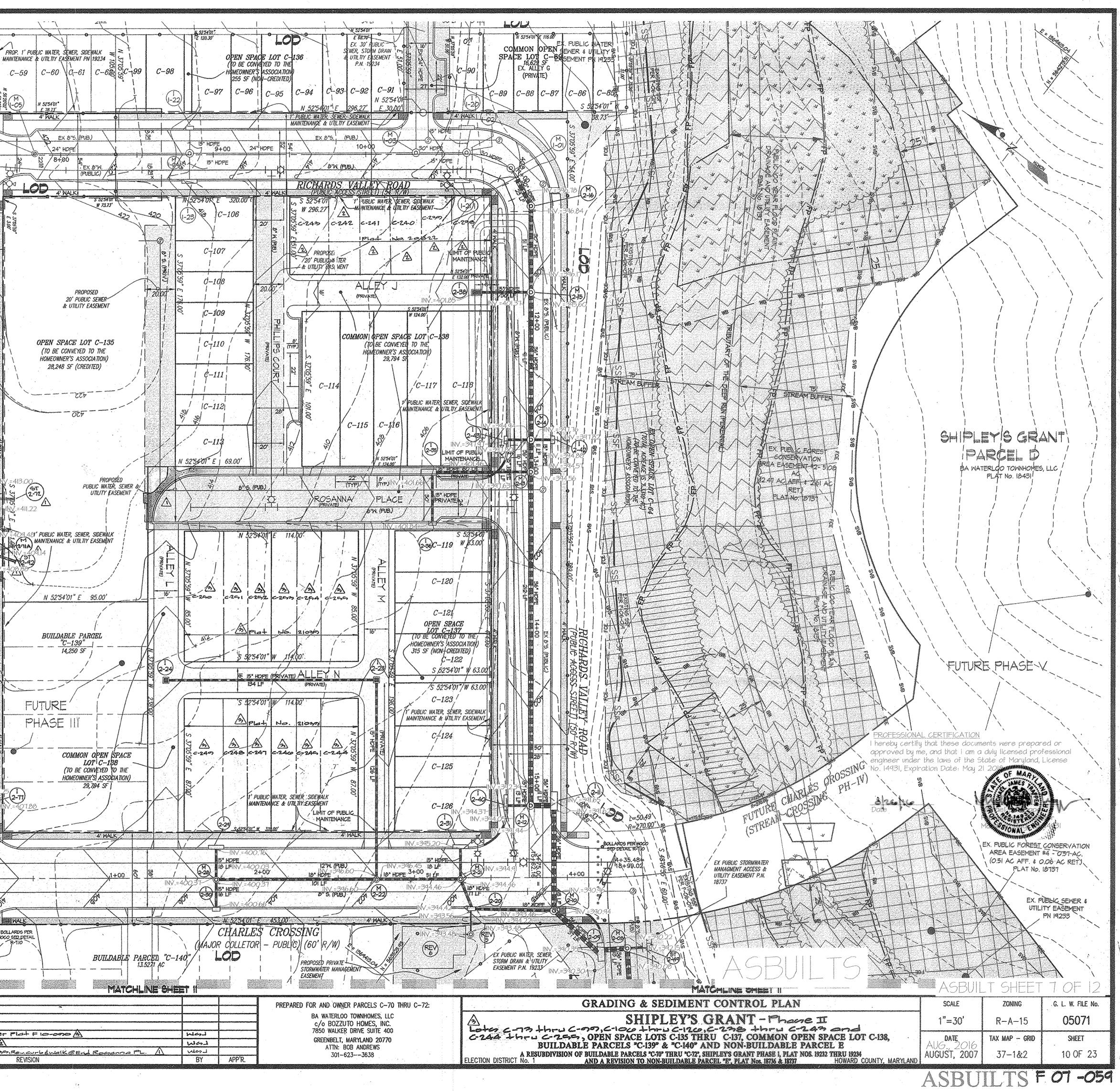
SHEET

9 OF 23

TAX MAP – GRID

37–1&2

BUILDABLE C-38 C-39 C-36 -C-37 PARCEL 32.549 SF OR 0.7472 AC. C-59 (ZONED: B-1)(-24A) (1-24) 4' WALK 2761× 2546 2532 15" HDPE A LEX STD. T'CIO / EX 8"S. PUBLIC -06) Q 7+32.26= ,7+00 2711 HP EX 12"W. FUBLIC Q15+00 L EX RICHARDS VALLEY ROAD CEX SID. T' CH (VARIABLE WIDTH R/W) -10D-<u>S 52'54'01" W 334.19"</u> S 52'54'01" W 170.00' 4' WALK 4' WALK 1832 1 EX. SHIPLEY'S CEMETERY 439 TOURTIS PROPERTY TALBOT OR COLLETOR HO.CO. 10 37-7) DRUVE - PUBLIC 428 - OPEN SPACE LOT C-65 40,551 SF OR 0.9309-AC (TO BE CONVEXED TO THE HOMEOWNER'S ASSOCIATION) EX. PRIVATE STORMWATER MANAGEMENT EASEMENT PLAT No. 19232. 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, 418 -License No.: 14931, Expiration Date: May 21, 2008 ENGINEER'S CERTIFICATE I HEREBY 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 000 600 O INV Michael J. Trapp. 8/31/07. PROPERTY OF LOIS LUCILLE CURTIS, TRUSTEE OF THE REVOCABLE TRUST HOWARD COUNTY HISTORIC DISTRICT / DEVELOPER'S/BUILDER'S CERTIFICATE MARYLAND HISTORIC TRUST NO. 439 L. 5542 F. 500 (ZONED: RC) "IWE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION, CONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIORMMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT." 327,2000 FUTURE PHASE II THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS. NATURAL RESOURCES CONSERVATION SERVICE THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. OWNER PARCEL 'E' BA WATERLOO CONDOMINIUM, LLC c/o BOZZUTO HOMES, INC. 1850 WALKER DRIVE, SUITE 400 GREENBELT, MARYLAND 20110 V6+93= <u>2</u>@-APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS ATTN: BOB ANDREWS PHONE: 301-623-3638 Millin Z. Mall. Chief, Bureau of Highways 45 9-10-07 25' x 55' PUBLIC WATER & MANWALK UTILITY EASEMENT BOLLARDS PER HOCO STEDETAN R-T.IO APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING 9/13/0 50' PUBLIC STORMWATER S WUNT MANAGEMENT ACCESS, STORM Chief. Land Developmen DRAIN & UTILITY EASEMENT 7/12/17 Chief, Development GLWGUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK 6.11.10 [Update Property Linewand Lot 10% Per Plat F 10-000/ BURTONSVILLE, MARYLAND 20866 10.20.00 Rev. Property Lines Per Plat 10-0432 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 5-22.08 Res 0.0. EENtr To Lot C-190, Addentr. To Lot C-190, Res. Curbéwaik@End Roganno PL. A DATE OFINION \Drowings\03006\PHASE II\FINALS\03006_02F-GRADING.dwg DES. BJM DRN. BJM CHK. mit

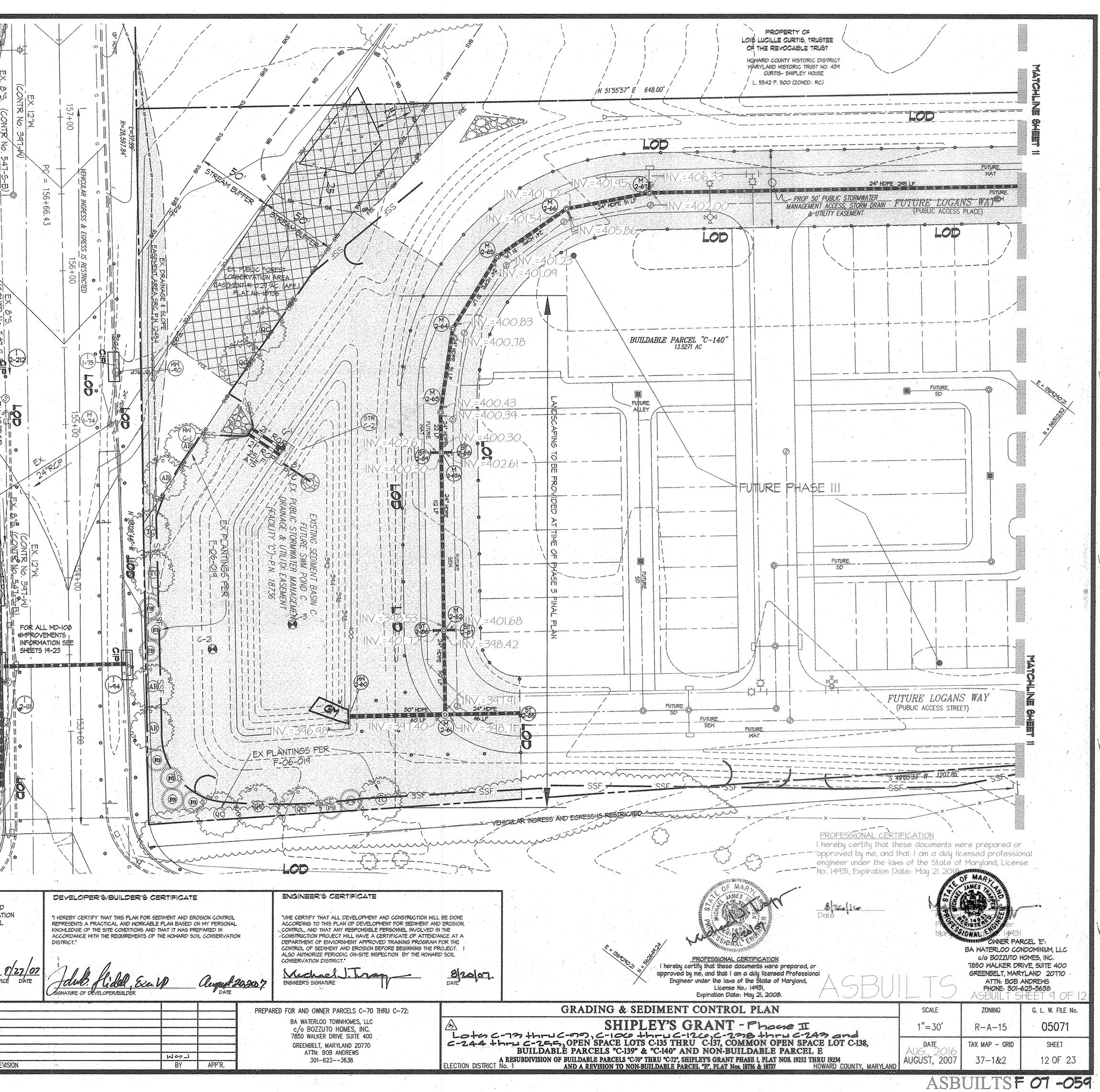


PROPERTY OF LOIS LUCILLE CURTIS, TRUSTEE OF THE REVOCABLE TRUST	
HOWARD COUNTY HISTORIC DISTRICT SEE	
HOWARD COUNTY HISTORIC DISTRICT UN SO DEFINITION OF A COUNTY HISTORIC TRUSTING 4800 UN	
STITUEN STORE	
	FUTURE PHASE IN
NV = 403.61	90/ / /
	FUTURE PHASE
INV.=404.8	
FUTURE PHASE IK	NS. M.
	I I Charter I Charter
	TUTURE ACCESS STREET
	State / Aller
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
R CONTRACTOR	
	EX PER F-08-013
E	S 4925'33" W 112(37 SSF
£	SSF SSF
H 1207.86'	
5 4905 33"W 1207.86	VEHICULAR INGRESSIONE
Assamman	
$\left[\begin{array}{c} 1\\ 1\\ 1\\ 1\\ 1\end{array}\right]$	
	man and the second s
APPROVED HOWARD COUNTY DEPARTMENT OF RUBLIC WORKS	
Melettan Z. Melell. 9-10-07 APPR	DEVELOPMENT PLAN IS OVED FOR SOIL EROSION AND THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL
Chief, Bureau of Highways Ma Date Soil of	IENT CONTROL BY THE HOWARD DISTRICT AND MEET THE TECHNICAL CONSERVATION DISTRICT. REQUIREMENTS.
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	The first of the second
Chief, Division of Lend Development	Mr. 4. 8/27/07 (102 /1yers/08 8/27/07
Chief, Development Engineering Division 9/12/07 Date 9	U JULU DATE · NATURAL REDOURCES CONDERVATION SERVICE DATE
GLWGUTSCHICK LITTLE & WEBER, P.A.	
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK	
BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186	G.II.10 Rey, TITLE BLOCK A
\Drawings\03006\PHASE II\FINALS\03006_02F-GRADING.dwg DES. BJM DRN. BJM CHK. mjt	DATE REVISION

MATCHLINE SHEET 10 B'S (PUBLIC) O EX PUBLIC WATER, SEWER, STORM ORAIN & UTILITY EASEMENT P.M. 11 manere where areas and an areas and and and a second a second EX PUBLIC STORMWATER MANAGMENT ACCESS & UTILITX EASEMENT P.N 18737 BUILDABLE PARCEL "C-140" \sim EX PUBLIC STORMWATER MANAGEMENT ACCESS_STORM DRAIN & UTILITY EASEMENT roj PN 18737 PROPOSED PUBLIC STORMWATER MANAGMENT, ACCESS, STORMDRAIN & UTILITY EASEMENT °S $\langle \rangle$ INV. , 5' PUBLIC STORMDRAIN NV SHIPLEY'S GRANT NON BUILDABLE PARCEL 'E' BA WATERLOØ CONDOMINIUM, LLC PLAT No. 18736 & 18737 Ø OY 1 B-3 (2-02) EX PLANTINGS PER F-06-019_ hand hand ÷. - 8-53 S ENGINEER'S CERTIFICATE DEVELOPER'S/BUILDER'S CERTIFICATE "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION, "I HEREBY 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." CONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIORMENT 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." PROFESSIONAL CERTIFICATIO I hereby certify that these documents wer approved by me, and that I am a duly licens Engineer under the laws of the State of Machael J. Mar. 8/20107. DATE august 20,207 License No.: 14931, Expiration Date: May 21, 20 XENATURE OF DEVELOPER/BUILDER. GRADING PREPARED FOR AND OWNER PARCELS C-70 THRU C-72: BA WATERLOO TOWNHOMES, LLC SH c/o BOZZUTO HOMES, INC. 7850 WALKER DRIVE SUITE 400 Loto C-73 thru C-00, C-10 C-244 thru C-255, OPEN SPACE I BUILDABLE PARCELS °C-1 A RESUBDIVISION OF BUILDABLE PARCELS ELECTION DISTRICT No. 1 AND A REVISION TO 1 GREENBELT, MARYLAND 20770 ATTN: BOB ANDREWS Mari 301-623--3638 BY APP'R.

MAI		10 ++ 1 1 1		, I			 _
A A A A A A A A A A A A A A A A A A A			The sole	`, AREA	C FOREST CONSEL EASEMENT 44 - 01 C AFF. & 0.00 AC	57 AC.	×
					PLAT NO. 18737		
		54			EX. PUBLIC S UTILITY EAS PN 1925	EMENT	
FUBLIG FOREST CONSER	JARTON V KOV		to and the	T	1 1	YS GR	ANT
ASEMENT AREA #3-0.76 751 AC. AFFI & 0.37 AC. PLAT NO. 18737	Add VI 2000		1) 22 (1) 22		BA WATE	RCEL &	
A CONTRACTOR	and the second			I TT	III:		
Tes 1							
	88 1 1 1 1 1 1 1					HT 3	
		A CONTRACT	HAR.		N Ha	× 30'09'56' × 30'09'56' 63.28'	
	Repland						
	BIS SINT		H	John Mary	ATT I		
EX.PLANTIN		AR	S 2170/29 × W 215/05/				
	CC Survive Manual						
		STILLES MO					
		NOUTH MOST					
TC +						-0	
						D.A.	
					204		T T T
					and the second sec		
					- 20-10-184-1-24		
- 25 44							
	DOSECCIÓNN					AD OF	
	A hereby certify the formation of the second	and that I am le laws of the	a duly licensed State of Marula	pared or X professional and, License	Pr JA		
	No. 14931, Expirat	ion Date: May	21 2018 OF MAR	2			
	Date 16			Ph/			
IION were prepared, or censed Protessional 🔨		*	MCM STON ALC	m o, 1 4931	BA WATE c/o E	WNER PARCEL E RLOO CONDOMIN XOZZUTO HOMES, ALKER DRIVE, SUI	UM, LLC NC.
te of Maryland,	SBC ODMAN		ASI		B OF 12 PH	ELT, MARYLAND TN: BOB ANDREM DNE: 301-623-36	20710 15 38
& SEDIMENT	RANT-PL	nace TL	3 and	SCAL 1"=3	0' R-A	-15	. W. FILE No.
E LOTS C-135 THRU C-139" & "C-140" AN ELS *C-70" THRU *C-72", SHI TO NON-BUILDABLE PARC	D NON-BUILDA D NON-BUILDA PLEY'S GRANT PHASE 1, EL "E", PLAT Nos. 18736 &	N OPEN SPAC BLE PARCEL PLAT NOS 19232 TH 18737	E LUT C-138, E RU 19234 IOWARD COUNTY, MAI		2016 2007 37-		SHEET 11 OF 23
				A	SBUIL	TSF0	7 -059

 \mathbb{C} SHEETS 19-23 0. ______ FOR ALL MD-108 INFORMATION SEE SHEETS 19-23 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS THIS DEVELOPMENT PLAN IS THESE PLANS HAVE BEEN REVIEWED Chief, Bureau of Highways 45 APPROVED FOR SOIL EROSION AND FOR THE HOWARD SOIL CONSERVATION 9-10-07 SEDIMENT CONTROL BY THE HOWARD DISTRICT AND MEET THE TECHNICAL Date SOIL CONSERVATION DISTRICT. REQUIREMENTS. APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING Ktent-Maas Chief. Division of Land Development NATURAL RESOURCES CONSERVATION SERVICE DATE g/p/oz ZUUUU hief. iineerina Division GLWGUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 DATE ROY TITLE BLOCK A \Drawings\03006\PHASE II\FINALS\03006_02F-GRADING.dwg DES. BJM DRN. BJM CHK. mjt REVISION



- LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0
- 2) ACCEPTABLE APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT)

ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT OR HIGHER, USE 348 GAL PER ACRE (8

COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (410) 313-1855.

WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR

SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDING AND MULCHING (SEC. G).

ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY

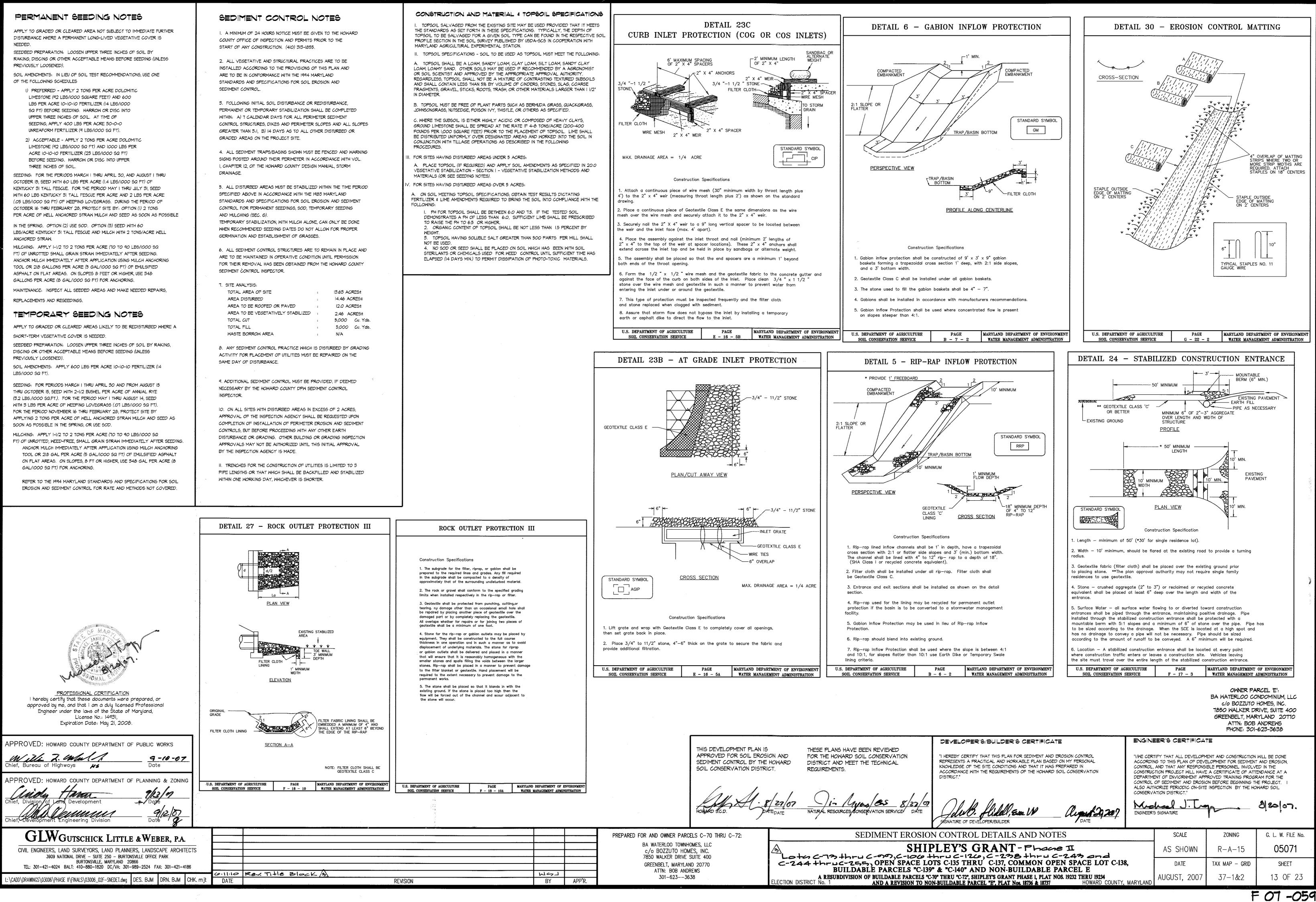
٦.	SITE	AN/	ALYSIS	ò:	
	TOT			~-	C 177

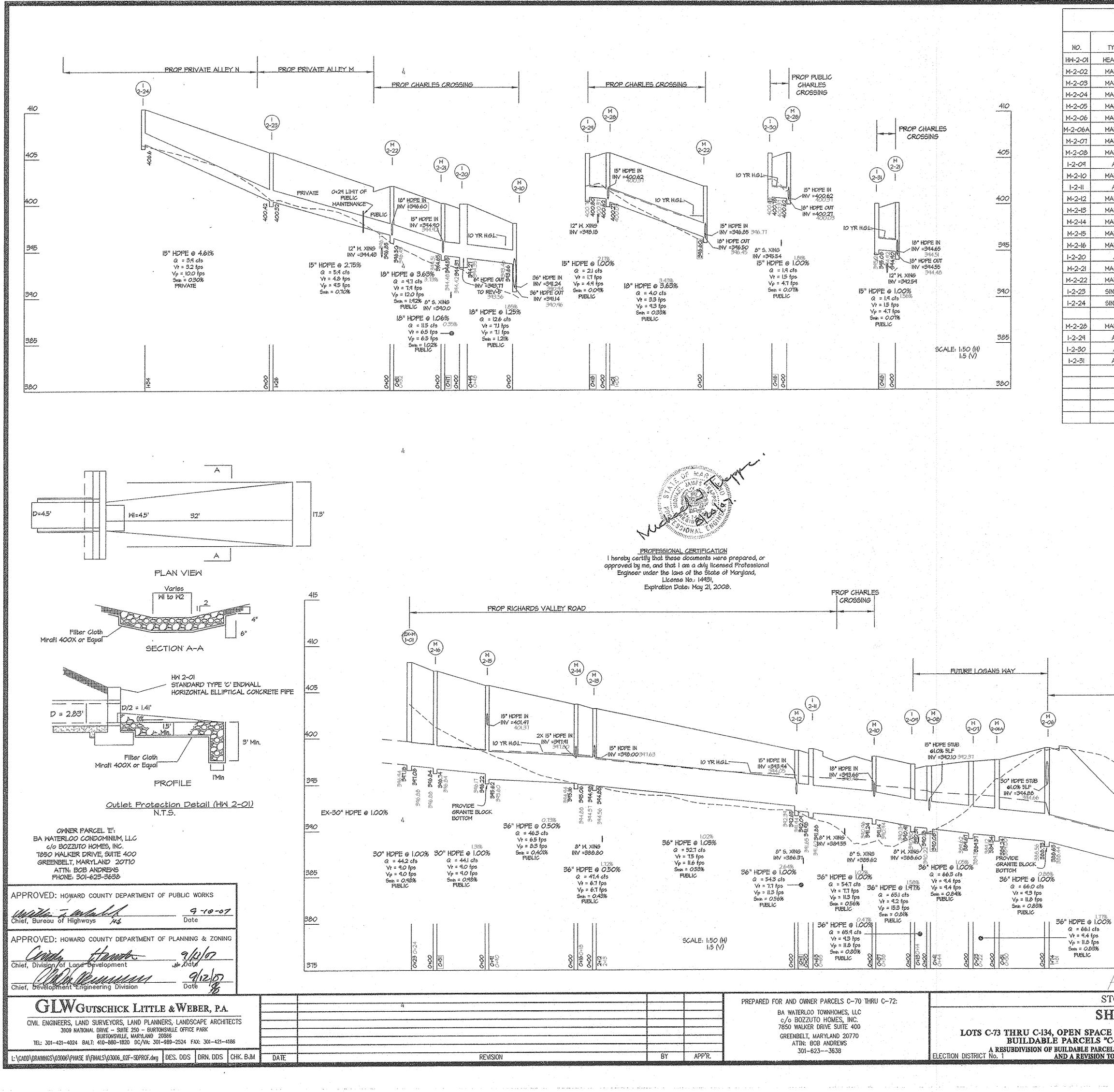
TOTAL AREA OF SITE	:	13.63 ACRE	2
AREA DISTURBED	:	14.46 ACR	Ξ
AREA TO BE ROOFED OR PAVED	:	12.0 ACRE	2
AREA TO BE VEGETATIVELY STABILIZED	:	2.46 ACRI	E
TOTAL CUT	:	5,000 0	2
TOTAL FILL	:	5,000 0	1
WAGTE RODDOW ADEA		N/A	

NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.

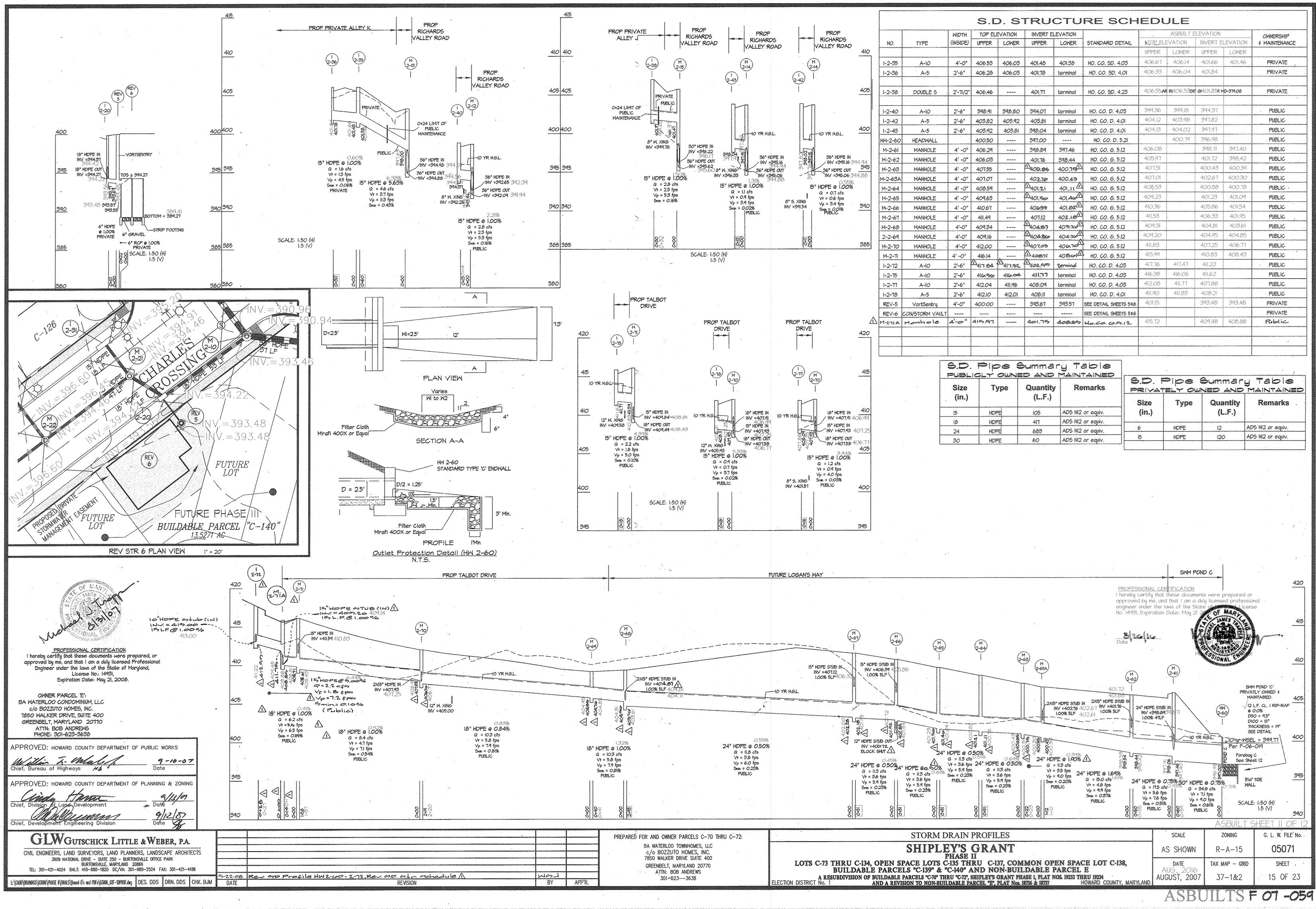
APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL

WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



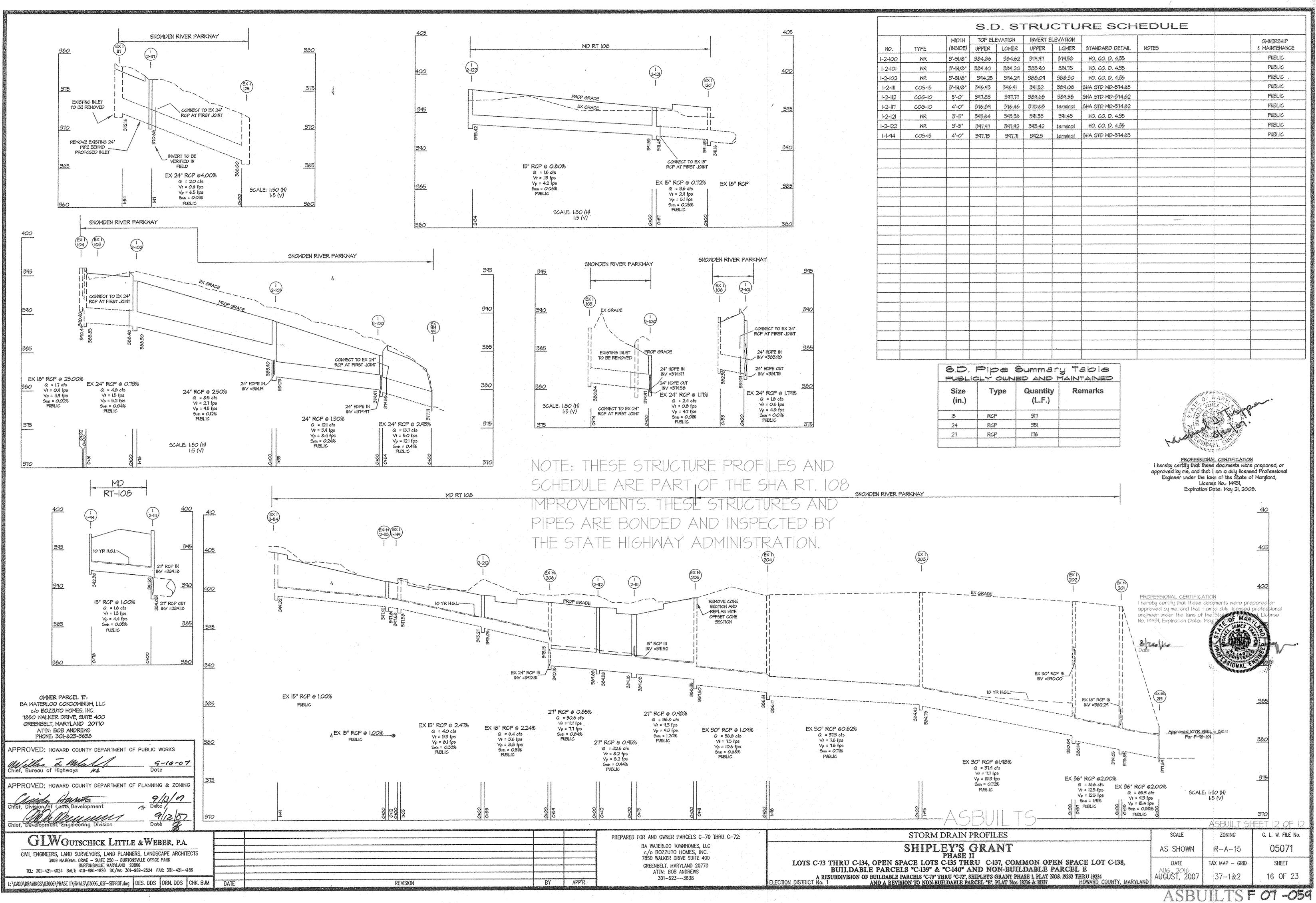


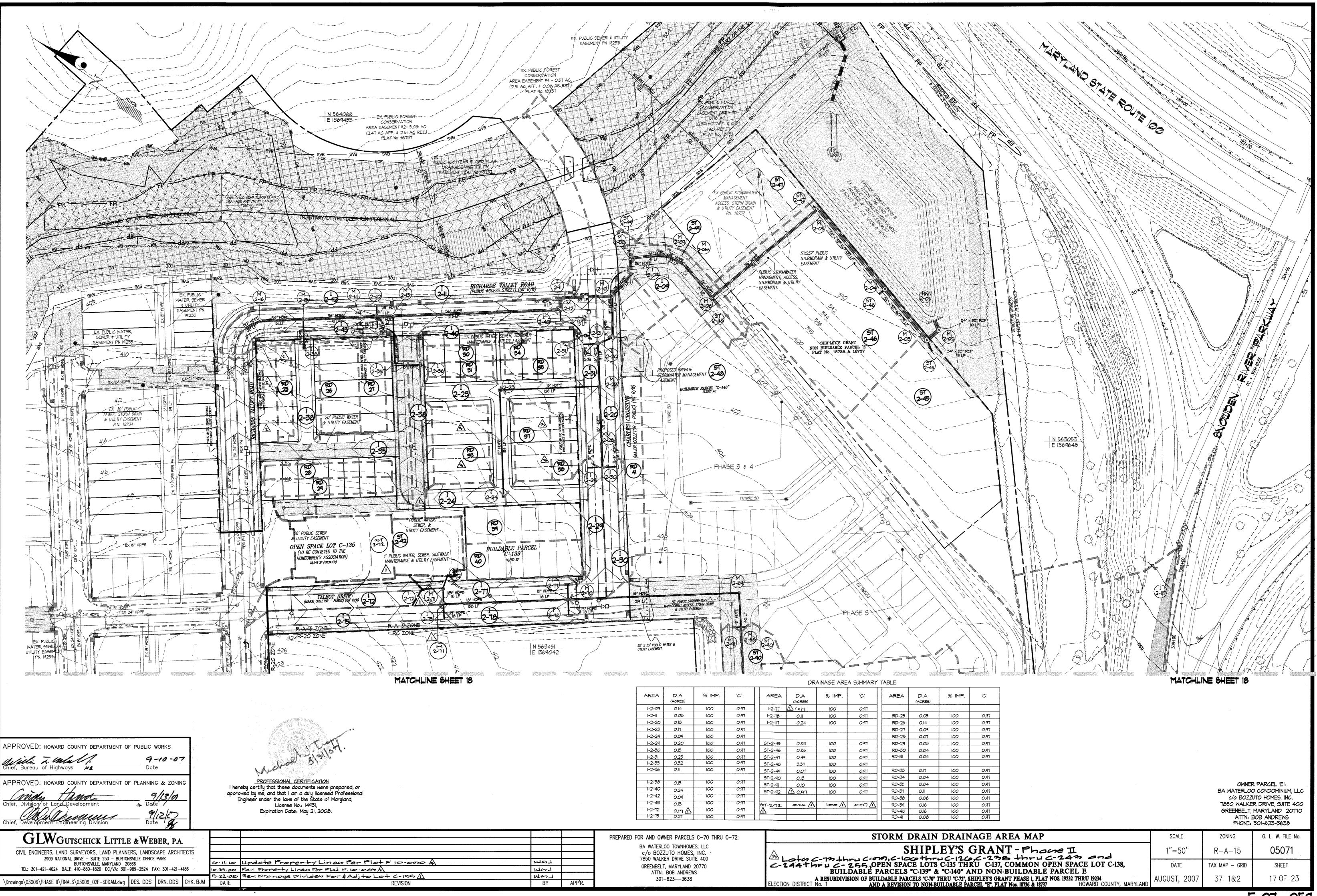
		Massard in Sing		مناشرة بعد المراجع	and a second	RE SCH	IEDU	JLE			·
	WIDTH	نج نب ب ب ب ب ب ب ب						ASBUILT ELE		2	ANERSHIP
TYPE	(INSIDE)	UPPER	LOWER	UPPER	LOWER	STANDARD DETAIL	UPPER 386.05		UPPER L1 381.94	OWER 4 M	AINTENANCE
EADWALL		386.00		382.00	382.00	SHA STD MD-355.02	387.65			32.02	PUBLIC
MANHOLE	6'-0" T'-0"	387.50 389.00	****	382.19 383.13	382.09 382.30	HO. CO. G. 5.13 HO. CO. G. 5.13	389.40	+		82.15	PUBLIC
MANHOLE MANHOLE	1-0" 6'-0"	389.00	ده مع به به 	384.40	382.97	HO. CO. G. 5.13	389.04	<u> </u>		32.97	PUBLIC
MANHOLE	6'-0"	390.00		385.50	383.90	HO. CO. 6. 5.13	384.56			83.81	PUBLIC
MANHOLE	5'-0"	400.04		394.88	388.63	HO. CO. G. 5.13	400.16			38.44	PUBLIC
MANHOLE	5'-0"	398.80	****	389.34	389.24	HO. CO. G. 5.13	348,72	<u></u>		59.00	PUBLIC
MANHOLE	5'-0"	398.19		389.67	389.57	HO. CO. G. 5.13	398.27		389.62 3	89.51	PUBLIC
MANHOLE	5' -0"	397.32		392.10	390.08	HO. CO. G. 5.13	347,35			i0.08	PUBLIC
A-10	2'-6*	397,68	397.43	390.41	. 390.31	HO. CO. D. 4.03	397.61	397.58	390:35 34	10.30	PUBLIC
MANHOLE	5'-0"	398.35		393,66	391.14	HO, CO, G. 5.13	398,36		393,46 30	10.94	PUBLIC
A-10	4-6"	399.01	398.80	391.98	398,88	HO. CO. D. 4.03	399.43	399.15	391.65 3	91.62	PUBLIC
MANHOLE	5 ¹ ~0 ⁿ	398.65		393.94	392.09	HO. CO. 6. 5.13	399,19		394 <i>.0</i> \$ 3	91.94	PUBLIC
MANHOLE	5' -0"	403.21		398.00	394.88	HO. CO. G. 5.13	403.58		397.63 3	14.56	FUBLIC
MANHOLE	5'-0*	403.65		397.91	395.06	HO. CO. G. 5.13	403.94		397.80 39	14.88	PUBLIC
MANHOLE	5'-0*	405,12		401.47	395.62	HO. CO. G. 5,13	405.72	<u></u>		15.60	PUBLIC
MANHOLE	5'-0"	407.29		396.84	396.74	HO. CO. G. 5,13	401.40	<u></u>		16.84	PUBLIC
A-5	2'-6"	400,01	399.84	394.37	393.77	HO, CO. D. 4,01	400.13			14.22	PUBLIC
MANHOLE	4' -0"	400,11		394,65	394.55	HO. CO. 6. 5.12	400.13			14,46	PUBLIC
MANHOLE	4' -0"	402.00		396.85	396.50	HO. CO. G. 5.12	402.02	اليبيني والمراجع	the second se	16.45	PUBLIC
SINGLE S	2'-71/2"	405,61		400.42	400.32	HO. CO. D. 4.22	· [R REPLACEMENT 6			PRIVATE
SINGLE S	2'-71/2"	410,35		406.60	terminal	HO. CO. D. 4.22	RECTICULAR	REPLACEMENT G	RATE PER MD-3	9.08 1	PRIVATE
وم ر معرفة معرفة مركزة مركزة مركزة م رتب							1 1 1 1 1 1 1	and the second			
MANHOLE	4'- 0"	405.57		400,62	400.21	HO. CO. G. 5.12	405.53				PUBLIC
A-10	2'-6"	405.80	405.46	400.80	terminal	HO. CO. D. 4.03	405.82	<u> </u>	400.76		PUBLIC
A-5	2'-6"	405.12	405.55	400.18	terminal	HO, CO, D. 4.01	405.68		400.66 3a5 2à		PUBLIC
A-10	2'-6"	400.34	400.00	395.08	terminal	HO. CO. D. 4.03	400,38	400.07	395.20		PUBLIC
								******		······································	
••••••••••••••••••••••••••••••••••••••											
[.]						,	1				
									n senten an andre senten senten S	· · ·	
			1	I	<u>]</u>	<u></u>		*** *********************************		L	
	4	*				able					
	PUBL	<u>IGLY</u>	OUNE	<u>d and</u>	MAIN			Pipe	Summ	ary Ta	able
	Size	T	уре	Quantity	y Re						JTAINED
	(in.)			(L.F.)	State and a second second		Size	-	Quant		marks
	15	HDI		52	ADS NO	or equiv.	(in.)	Туре	L.F.	* } .	GAIDIN
	15	HDI	*****	52 216	- and the second se	or equiv.	3***· <i>j</i>		(L		المراجع والمحافظة وال
-	30	HDI		210 74	,	or equiv.	15	HOPE	260	ADS NI2	or equiv.
	36	HD		132		or equiv.	Į.				
	34 X 53	RCI	**************************************	232	ELIPTICA				1		
. 1										· ·	
							· .				
	-					· · ·					
. •	- - -										
									Al restriction		415
									<		
									-		
					·				a se an		410
								· ·	a se a seconda e de seconda e de seconda e		410
								· · ·	a se a substantia sera a consegur persona seran a consecu		410
	•		· ·					SWM	n en		410
			· · ·	PARCEL	<u>.</u>			SWM POND B	and the second		<u>410</u> 405
				PARCEL.	Ę				understandingenerations. 		<u>410</u> <u>405</u>
	-			PARCEL	<u>***</u>	PR					<u>410</u> <u>405</u>
· · · · · · · · · · · · · · · · · · ·				PARCEL	<u>F</u>	l he	rebu certify	POND B	cuments were	prepared or	<u>410</u> <u>405</u>
•				PARCEL	<u>177</u>	l he app enc	reby certify proved by me jineer under	POND B <u>CERTIFICATI</u> that these do s, and that I ar the laws of th	cuments were m a duly licen e State	prepared or sed profession	<u>410</u> <u>405</u>
				PARCEL	E	l he app enc	reby certify proved by me jineer under	POND B	cuments were m a duly licen e State	prepared or red profession license	<u>410</u> 405
				PARCEL.	F	l he app enc	reby certify proved by me jineer under	POND B <u>CERTIFICATI</u> that these do s, and that I ar the laws of th	cuments were m a duly licen e State	prepared or sed profession Manual Jcense	<u>410</u> 405
				PARCEL	Ę	l he app enc	reby certify proved by me jineer under	POND B <u>CERTIFICATI</u> that these do s, and that I ar the laws of th	cuments were m a duly licen e State	prepared or red profession License	410 405 2 10 10 10 10 10 10 10 10 10 10 10 10 10
				PARCEL	F	l he app enc	reby certify proved by me jineer under	POND B <u>CERTIFICATI</u> that these do s, and that I ar the laws of th	cuments were m a duly licen e State	prepared or ed profession license	6
			(M) 2-05	PARCEL	1	l he app enc	reby certify proved by me jineer under	POND B <u>CERTIFICATI</u> that these do s, and that I ar the laws of th	cuments were m a duly licen e State zy 21 30 30 30 30 30 30 30 30 30 30 30 30 30	MAR Icense	6
			(M) 2-05	PARCEL	<u>E</u>	l he app enc	reby certify proved by me jineer under	POND B <u>CERTIFICATI</u> that these do s, and that I ar the laws of th	cuments were m a duly licen e State 21 230 Barela Ma Solo State State	MA WES HERE	6
			(H) 2-05)	PARCEL	E	l he app enc	reby certify proved by me jineer under	POND B <u>CERTIFICATI</u> that these do s, and that I ar the laws of th	cuments were m a duly licen e State zy 21 30 30 30 30 30 30 30 30 30 30 30 30 30	MA WES HERE	6
			(M) 2-05 L	PARCEL	E	l he app enc	reby certify proved by me jineer under	POND B <u>CERTIFICATI</u> that these do s, and that I ar the laws of th	cuments were m a duly licen e State 21 230 Barela Ma Solo State State	MA WES HERE	395
			(M 05)	PE STUB IN	E	I he app end No. Dat 204 I	reby certify proved by me ineer under 14931, Expire	POND B <u>CERTIFICATI</u> that these do s, and that I and the laws of the ation Date: Mo	cuments were m a duly licen e State 21 230 Barela Ma Solo State State	AL AL AL AL AL AL AL AL AL AL	395 390 . cl. 1 RIP-RAP
			1 010		YR HGL	I he opp end No. Dat (M) (2:04) I I I I I I I I I I I I I I I I I I I	reby certify proved by me ineer under 14931, Expire 14931, Expire 14931, Expire	POND B <u>CERTIFICATI</u> that these do s, and that I and the laws of the ation Date: Mo	cuments were m a duly licen e State 30 21 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 10 9 9 10 9 9 10 9 9 10 9 9 10 9 9 10 9 9 10 9 9 10 9 9 10 9 10 9 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	AL AL AL AL AL AL AL AL AL AL	395 390 . cl. 1 RIP-RAP 6
			1 010	FE STUB LQ	YR HGL	I he opp end No. Dat 2-04 Id: HOPE STUR 01.0% SEF INV =304.40	reby certify proved by me ineer under 14931, Expire 1990 1990 1990 1990 1990 1990 1990 199	POND B <u>CERTIFICATI</u> that these do s, and that I and the laws of the ation Date: Mo	cuments were m a duly licen e State ay 21 180	MA ICENSE MA ICENSE	395 390 . CL. I RIP-RAP 45' = 15' NESS = 19' 385
				FE STUB LQ	YR HGL	I he opp end No. Dat (M) (2:04) I I I I I I I I I I I I I I I I I I I	reby certify proved by me ineer under 14931, Expire 1990 1990 1990 1990 1990 1990 1990 199	POND B	cuments were m a duly licen e State 30 21 30 au 21 30 au 21 30 au 21 30 au 20 au 20	ALLES AL	395 390 . CL. I RIP-RAP 45' = 15' NESS = 19' 385
				FE STUB LQ	YR HGL	I he opp eng No. Dat (M) (M) (M) (M) (M) (M) (M) (M) (M) (M)	reby certify proved by me ineer under 14931, Expire 1990 1990 1990 1990 1990 1990 1990 199	POND B	cuments were m a duly licen e State ay 21 000 ay 21 000 ay 21 000 Building Swm Pri PublicLY Por F-06-0 a	MA ND B OKNED 1 AINTAINED. 32 LF © 0.00 D50 = 385.75 DIO0 FMICKI SEE DI	395 390 . CL. I RIP-RAP 45' = 15' NESS = 19' 385
	36" HDPE @			FE STUB LQ	YR HGL	I he opp eng No. Dat (M) (M) (M) (M) (M) (M) (M) (M) (M) (M)	reby certify roved by me ineer under 14931, Expire 14931, Expire 14931, Expire 14931, Expire 14931, Expire 18° HDRE STUE 10% 51.F 10% 51.F 10% 51.F	POND B	cuments were m a duly licen e State 30 21 30 au 21 30 au 21 30 au 21 30 au 20 au 20	MA MA ICENSE	395 . CL. I RIP-RAP 45° = 15^{\circ} NESS = 19^{\circ} . 385 ETAIL 0.75%
	Q = 883 (VI = 125 fg	2.65% cts ps		PE STUB LO % 51.F 38550385,82	TR HGL	I he app end No. Dat (204)	reby certify roved by me ineer under 14431, Expire 14431, Expire 14441,	POND B	Cuments were in a duly licen e State 3 21 30 ay 20 ay	M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M	395 390 . cl. I RIP-RAP 45' = 15" NESS = 19" 385 ETAIL P @ 0.90% I.4 cfs 380
28	Q = 883 c VI = 125 fy Vp = 18.4 f	2.05% cts ps ps		FE STUB LO % 5LF 38550385,82 34×53° Q	TR HGL TR HGL RCP @ 0.64 = 90.9 cfs = 95 fps	I he app eng No. Dat (204) (2	reby certify roved by me ineer under 14431, Expire 14431, Expire 14441,	POND B	cuments were m a duly licen e State ay 21 000 ay 21 000 ay 21 000 Building Swm Pri PublicLY Por F-06-0 a	MA MA ICENSE MA ICENSE ICENSE MA ICENSE	395 . cl., 1 RIP-RAP 8 9.5 15 15 15 255 = 19 257 25 14 cfs 250 25 fps 25 fps 25
28	Q = 883 (VI = 125 fg	2.05% cts ps ps		PE STUB LQ % 5LF 38550385,82 34×53° Q VI VP Smi	TR HGL TR HGL RCP \oplus 0.64 = 90.4 cfs = 95 fps = 95 fps = 9.69%	I he app eng No. Dat (M) (M	reby certify proved by me ineer under 14431, Expire 14431, Expire 14451,	POND B	Cuments were m a duly licen e State 3 21 300 Show Postor Postor Show Postor Show Postor	M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	395 . cl., 1 RIP-RAP 45° = 15" NESS = 19" 3855 ETAIL P @ 0.90% 1.4 cfs 5 fps 5 fps 5 fps
2%	Q = 883 c VI = 125 fy Vp = 18.4 f Smn = 1.49	2.05% cts ps ps		PE STUB LQ % 5LF 38550385,82 34×53° Q VI VP Smi	TR HGL TR HGL RCP @ 0.64 = 90.9 cfs = 95 fps = 95 fps = 95 fps	I he app end No. Dat (M + Q) = Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q + Q (Q + Q) = Q + Q + Q + Q + Q + Q + Q + Q + Q + Q	reby certify proved by me ineer under 14931, Expire 14931, Expire 14931, Expire 14931, Expire 14931, Expire 19365 19369 19369 19369 19369	POND B	Cuments were m a duly licen e State 30 21 Show Posticut Show Problicut Show Problicut Show Problicut Show Problicut Show Problecut Show Problecut	AL SEC SEC SEC SEC SEC SEC SEC SEC	$\frac{395}{390}$. CL. I RIP-RAP 45' = 15' NESS = 19' 385 ETAIL $2 \oplus 0.90\%$ 1.4 cfs 380 15 fps 25 fps 55 fps 26% LIC
28	Q = 883 c VI = 125 fy Vp = 18.4 f Smn = 1.49	2.05% cts ps ps		PE STUB LQ % 5LF 38550385,82 34×53° Q VI VP Smi	TR HGL TR HGL RCP \oplus 0.64 = 90.4 cfs = 95 fps = 95 fps = 9.69%	I he app eng No. Dat (2^{-04}) $(2^$	reby certify proved by me ineer under 14931, Expire 14931, Expire 1993, Expire 1993, Expire 10% 51.F 10% 51.F 10% 51.F 10% 51.F 10% 51.F 10% 51.F 10% 95.5 cfs 1.00% 95.5 cfs 1.00% 9.5 fs 1.00%	POND B	Cuments were m a duly licen e State g 21 Show Show Postor Show Postor Show Postor Show Show Postor Show S	$34\times53^{\text{H}} \text{ RCAL}$	395 . cl., 1 RIP-RAP 45° = 15" NESS = 19" 3855 ETAIL P @ 0.90% 1.4 cfs 5 fps 5 fps 5 fps
	Q = 883 c VI = 125 fy Vp = 18.4 f Smn = 1.49	2.05% cts ps ps		PE STUB LQ % 5LF 38550385,82 34×53° Q VI VP Smi	TR HGL TR HGL RCP \oplus 0.64 = 90.4 cfs = 95 fps = 95 fps = 9.69%	I he app end No. Dat (M + Q) = Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q + Q (Q + Q) = Q + Q + Q + Q + Q + Q + Q + Q + Q + Q	reby certify proved by me ineer under 14931, Expire 14931, Expire 14931, Expire 14931, Expire 14931, Expire 1993, 60 1933, 60 1934, 60 1935, 60 193	POND B	Cuments were m a duly licen e State 3 21 3 21 3 30 10-ur MSEL Per F-06-0 5 Forebay B Sxl' To WALL 34X53" RCF Q = 10 VF = 10 Smn = 0 PUBL	$\begin{array}{c} 34\times53^{\text{H}} \text{ RCH}\\ Q = 10\\ Q = 365.75\\ Q = 10\\ Q = 1$	395 390 390 390 390 $95' = 15'$ $15' = 19' = 385$ $14 cfs = 380$ $5 fps = 55' fps = 55'$
AC	Q = 883 c VI = 125 fy Vp = 18.4 f Smn = 1.49	2.05% cts ps ps		PE STUB LQ % 5LF 38550385,82 34×53° Q VI VP Smi	TR HGL TR HGL RCP \oplus 0.64 = 90.4 cfs = 95 fps = 95 fps = 9.69%	I he app end No. Dat (M + Q) = Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q + Q (Q + Q) = Q + Q + Q + Q + Q + Q + Q + Q + Q + Q	reby certify proved by me ineer under 14931, Expire 14931, Expire 14931, Expire 14931, Expire 14931, Expire 1993, 60 1933, 60 1934, 60 1935, 60 193	POND B	Cuments were m a duly licen e State 3 21 3 21 3 30 10-ur MSEL Per F-06-0 5 Forebay B Sxl' To WALL 34X53" RCF Q = 10 VF = 10 Smn = 0 PUBL	$\begin{array}{c} 34\times53^{\text{H}} \text{ RCH}\\ Q = 10\\ Q = 365.75\\ Q = 10\\ Q = 1$	$\frac{395}{390}$. CL. I RIP-RAP 45' = 15' NESS = 19' 385 ETAIL $2 \oplus 0.90\%$ 1.4 cfs 380 15 fps 25 fps 55 fps 26% LIC
AC	Q = 883 c VI = 125 fy Vp = 18.4 f Smn = 1.49	2.65% cite ps ps %		PE STUB LQ % 5LF 38550385,82 34×53° Q VI VP Smi	TR HGL TR HGL RCP \oplus 0.64 = 90.4 cfs = 95 fps = 95 fps = 9.69%	I he app end No. Dat (M + Q) = Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q + Q (Q + Q) = Q + Q + Q + Q + Q + Q + Q + Q + Q + Q	reby certify proved by me ineer under 14931, Expire 14931, Expire 14931, Expire 14931, Expire 14931, Expire 1993, 60 1933, 60 1934, 60 1935, 60 193	POND B	Cuments were m a duly licen e State 3 21 3 21 3 30 10-ur MSEL Per F-06-0 5 Forebay B Sxl' To WALL 34X53" RCF Q = 10 VF = 10 Smn = 0 PUBL	$34\times53^{\circ} \text{ RCAL}$	395 390 390 390 390 $95' = 15'$ $15' = 19' = 385$ $14 cfs = 380$ $5 fps = 55' fps = 55'$
AC STORM	Q = 883 c VI = 125 fJ Vp = 18.4 fJ Smn = 1.49 PUBLIC	2.65% cfs ps %		PE STUB LQ % 5LF 38550385,82 34×53° Q VI VP Smi	TR HGL TR HGL RCP \oplus 0.64 = 90.4 cfs = 95 fps = 95 fps = 9.69%	I he app end No. Dat (M + Q) = Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q (Q + Q) = Q + Q + Q + Q (Q + Q) = Q + Q + Q + Q + Q + Q + Q + Q + Q + Q	reby certify proved by me ineer under 14931, Expire 14931, Expire 18* HOPE STUE 18* HO	POND B CERTIFICATI that these do s, and that I at the laws of the ation Date: Mo Magnetic Magnetic Magnetic SCALE	Cuments were in a duly licen e State 30 21 Solution Solution Solution Forebay B Salt To Wall 34X53" RCF Q = 10 Vf = 10 Vf = 10 Vf = 10 Constant Consta	$34\times53^{n} \text{ Rch}$ $34\times53^{n} \text{ Rch}$ 2 L,F 300 B $34\times53^{n} \text{ Rch}$ 2 C $34\times53^{n} \text{ Rch}$ 2 R $34\times53^{n} \text{ Rch}$ 2 R $34\times53^{n} \text{ Rch}$ 2 R $34\times53^{n} $	395 390 CL. I RIP-RAP 45' = 15' NESS = 19' 385 ETAIL 0.73% P @ 0.90% 1.4 cfs 380 5 fps 380 5 fps 380 5 fps 380 5 fps 375 ET 10 OF 12 L. W. FILE No.
AC STORM HIPL	a = 883 a VI = 125 fy Vp = 184 f Smn = 144 PUBLIC DRAIN EY'S PHASE	265% cfs ps ps f PROFII GRA	NT	FE STUB _10 % 51.F 38550385,82 34×53* Q Vi Vp Smi F	TR HGL TR HGL RCP \oplus 0.64 = 90.9 cfs = 95 fps = 9.5 fps = 0.69% UBLIC	I he app end No. Dat (2^{-04}) I I I I I I I I I I I I I I I I I I I	reby certify proved by me ineer under 14931, Expire 14931, Expire 18* HOPE STUE 18* HO	POND B	Cuments were m a duly licen e State 3 21 Soft Show Problect Per F-06-0 Show Problect Per F-06-0 Per F-06-0	HAT SHE CASE STATES TO THE CASE STATES STATE	395 390 CL. I RIP-RAP 45' = 15' NEBS = 19' 385 ETAIL 2 0 0.90% 14 cfs 380 5 fps 380 5 fps 380 5 fps 380 15 fps 380 16 ft 10 0F 12 L. W. FILE No. 05071
AC STORM HIPL	a = 883 a VI = 125 fy Vp = 184 f Smn = 144 PUBLIC DRAIN EY'S PHASE	265% cfs ps ps f PROFII GRA	NT	FE STUB _10 % 51.F 38550385,82 34×53* Q Vi Vp Smi F	TR HGL TR HGL RCP \oplus 0.64 = 90.9 cfs = 95 fps = 9.5 fps = 0.69% UBLIC	I he app end No. Dat (2^{-04}) I I I I I I I I I I I I I I I I I I I	reby certify proved by me ineer under 14931, Expire 14931, Expire 14931, Expire 1990, 511 100, 511 100	POND B	Cuments were in a duly licen e State 30 21 Solution Solution Solution Forebay B Salt To Wall 34X53" RCF Q = 10 Vf = 10 Vf = 10 Vf = 10 Constant Consta	HAT SHE CASE STATES TO THE CASE STATES STATE	395 390 CL. I RIP-RAP 45' = 15' NESS = 19' 385 ETAIL 0.73% P @ 0.90% 1.4 cfs 380 5 fps 380 5 fps 380 5 fps 380 5 fps 375 ET 10 OF 12 L. W. FILE No.
TORM HIPL E LOTS C-139" & ELS "C70"	Q = 883 c VI = 125 fy Vp = 184 f Smn = 144 PUBLIC DRAIN DRAIN EY'S PHASE C-135 TH 2 "C-140" A THRU "C-72", 1	265% cfs ps ps f profil GRA II RU C-1 ND NO SHIPLEYS	eio NY =	FE STUB 8 5LF 38550385,82 34×53° Q Vi Vp Smi F MON OP DABLE SE L PLAT 1	PEN SPAC PARCEL NOS. 19232 TH	LOT C-138, E LOT C-138, E INU 19234	reby certify proved by me ineer under 14931, Expire 14931, Expire 18* HOPE STUE 18* HO	POND B	Cuments were in a duly licen e State aj 21 Solution Solution Forebay B Shirt To WALL 34X53" RCF Q = 10 VF = 10 VF = 10 VF = 10 VF = 10 Construction Constr	MASS ³¹ RCI Q Q Q Q Q Q Q Q Q Q	395 390 CL. I RIP-RAP 45' = 15' NEBS = 19' 385 ETAIL 2 0 0.90% 14 cfs 380 5 fps 380 5 fps 380 5 fps 380 15 fps 380 16 ft 10 0F 12 L. W. FILE No. 05071
TORM HIPL E LOTS C-139" & ELS "C70"	Q = 883 c VI = 125 fy Vp = 184 f Smn = 1.44 PUBLIC DRAIN EY'S PHASE C-135 TH 2 "C-140" A	265% cfs ps ps f profil GRA II RU C-1 ND NO SHIPLEYS	eio NY =	FE STUB 8 5LF 38550385,82 34×53° Q Vi Vp Smi F MON OP DABLE SE L PLAT 1	PEN SPAC PARCEL NOS. 19232 TH	CE LOT C-138, E	reby certify proved by me ineer under 14931, Expire 14931, Expire 18* HOPE STUE 18* HO	POND B CERTIFICATI that these do s, and that I at the laws of the ation Date: Mo Magnetic SCALE S SHOWN DATE JG., 2016	Cuments were in a duly licen e State aj 21 Solution Solution Forebay B Shirt To WALL 34X53" RCF Q = 10 VF = 10 VF = 10 VF = 10 VF = 10 Construction Constr	MASS ³¹ RCI Q Q Q Q Q Q Q Q Q Q	390 CL. I RIP-RAP 45' = 15' NESS = 19' 385 ETAIL P @ 0.90% 1.4 cfs 380 5 fps 380
TORM HIPL E LOTS C-139" & ELS "C70"	Q = 883 c VI = 125 fy Vp = 184 f Smn = 144 PUBLIC DRAIN DRAIN EY'S PHASE C-135 TH 2 "C-140" A THRU "C-72", 1	265% cfs ps ps f profil GRA II RU C-1 ND NO SHIPLEYS	eio NY =	FE STUB 8 5LF 38550385,82 34×53° Q Vi Vp Smi F MON OP DABLE SE L PLAT 1	PEN SPAC PARCEL NOS. 19232 TH	LOT C-138, E LOT C-138, E INU 19234	reby certify proved by me ineer under 14931, Expire 14931, Expire 18* HOPE STUE 18* HO	POND B CERTIFICATI that these do s, and that I at the laws of the ation Date: Mo Magnetic SCALE S SHOWN DATE JG., 2016	Cuments were in a duly licen e State aj 21 Solution Solution Forebay B Shirt To WALL 34X53" RCF Q = 10 VF = 10 VF = 10 VF = 10 VF = 10 Construction Constr	MASS ³¹ RCI Q Q Q Q Q Q Q Q Q Q	390 CL. I RIP-RAP 45' = 15' NESS = 19' 385 ETAIL P @ 0.90% 1.4 cfs 380 5 fps 380
TORM HIPL E LOTS C-139" & ELS "C70"	Q = 883 c VI = 125 fy Vp = 184 f Smn = 144 PUBLIC DRAIN DRAIN EY'S PHASE C-135 TH 2 "C-140" A THRU "C-72", 1	265% cfs ps ps f profil GRA II RU C-1 ND NO SHIPLEYS	eio NY =	FE STUB 8 5LF 38550385,82 34×53° Q Vi Vp Smi F MON OP DABLE SE L PLAT 1	PEN SPAC PARCEL NOS. 19232 TH	LOT C-138, E LOT C-138, E INU 19234	reby certify proved by me ineer under 14931, Expire 14931, Expire 18* HOPE STUE 18* HO	POND B CERTIFICATI that these do s, and that I at the laws of the ation Date: Mo Magnetic SCALE S SHOWN DATE JG., 2016	Cuments were in a duly licen e State aj 21 Solution Solution Forebay B Shirt To WALL 34X53" RCF Q = 10 VF = 10 VF = 10 VF = 10 VF = 10 Construction Constr	MASS ³¹ RCI Q Q Q Q Q Q Q Q Q Q	390 CL. I RIP-RAP 45' = 15' NESS = 19' 385 ETAIL P @ 0.90% 1.4 cfs 380 5 fps 380
TORM HIPL E LOTS C-139" & ELS "C-70"	Q = 883 c VI = 125 fy Vp = 184 f Smn = 144 PUBLIC DRAIN DRAIN EY'S PHASE C-135 TH 2 "C-140" A THRU "C-72", 1	265% cfs ps ps f profil GRA II RU C-1 ND NO SHIPLEYS	eio NY =	FE STUB 8 5LF 38550385,82 34×53° Q Vi Vp Smi F MON OP DABLE SE L PLAT 1	PEN SPAC PARCEL NOS. 19232 TH	LOT C-138, E LOT C-138, E INU 19234	reby certify proved by me ineer under 14931, Expire 14931, Expire 18* HOPE STUE 18* HO	POND B CERTIFICATI that these do s, and that I at the laws of the ation Date: Mo Magnetic SCALE S SHOWN DATE JG., 2016	Cuments were in a duly licen e State aj 21 Solution Solution Forebay B Shirt To WALL 34X53" RCF Q = 10 VF = 10 VF = 10 VF = 10 VF = 10 Construction Constr	MASS ³¹ RCI Q Q Q Q Q Q Q Q Q Q	390 CL. I RIP-RAP 45' = 15' NESS = 19' 385 ETAIL P @ 0.90% 1.4 cfs 380 5 fps 380



	WIDTH	TOP ELI	EVATION	INVERT E	LEVATION			ASBUILT E	LEVATION		OWNERSHIP
TYPE	(INSIDE)	UPPER	LOWER	UPPER	LOWER	STANDARD DETAIL	NIQE_ELL	EVATION	INVERT E	LEVATION	& MAINTENANCI
							UPPER	LOWER	UPPER	LOWER	
A-10	4'-0"	406.53	406.03	401.48	401.38	HO. CO. 5D. 4.03	406.67	. 406.14	401.66	401.46	PRIVATE
A-5	2'-6"	406.28	406.03	401.78	terminal	HO. CO. SD. 4.01	406.33	406.04	401.84		PRIVATE
*							, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1				
DOUBLES .	2'-71/2"	406,46	****	401.77	terminal	HO. CO. SD. 4.23	406.55 A	RI406.53EN	61401.85× N	D-379.08	PRIVATE
A-10	2'-6"	398.91	398.80	394.07	terminal	HO. CO. D. 4.03	349,36	399.18	394,37		PUBLIC
A-5	2'-6"	403.82	403.92	403,81	terminal	HO. CO. D. 4.01	404.12	403.98	397.82		PUBLIC
A-5	2'-6"	403.92	403.81	398.04	terminal	HO. CO. D. 4.01	404.13	404.02	397.97		PUBLIC
HEADWALL		400.50	****	397.00		HO. CO. D. 5.21	*	400.79	396,98		PUBLIC
MANHOLE	4' -0"	406.29	****	398.89	397.46	HO. CO. G. 5.12	406.08		398,71	397.40	PUBLIC
MANHOLE	4' -0"	406.03		401.76	398.44	HO. CO. G. 5,12	405.97		401.72	398.42	PUBLIC
MANHOLE	4' -0"	401.55	948 M 107 407	400.85	400.75	HO. CO. G. 5.12	407.51		400.43	400.39	PUBLIC
MANHOLE	4' -0"	407.07	em an est est.	402.36	400.43	HO. CO. G. 5.12	407.01		402.67	400.30	PUBLIC
MANHOLE	4' -0"	408.59	~~~~	401.21	401.11 A	HO. CO. G. 5.12	408.53		400.88	400.78	PUBLIC .
MANHOLE	4'-0"	409.63		\$401.500	401.40	HO. CO. G. 5.12	409.23		401.23	.401.09	PUBLIC
MANHOLE	4' -0"	410.67	***	40639	401.62	HO. CO. G. 5.12	410.36		405.86	401:54	PUBLIC
MANHOLE	4'-0"	411.49		401,12	402.18	1 ···· · · · · · · · · · · · · · · · ·	411.53		406.33	401.95	PUBLIC
MANHOLE	4'-0"	409.34		404.87	403.70	HO. CO. G. 5.12	409,31		404,81	403.61	PUBLIC
MANHOLE	4'-0"	409,16		104.800	404.70	HO. CO. G. 5.12	409:20		404.95	404,85	FUBLIC
MANHOLE .	4'-0"	412.00		A407.03	406.70	HO. CO. G. 5.12	411.83		407.25	406.TT	PUBLIC
MANHOLE	4' -0"	416.14		A408.11	408.01	HO, CO, G. 5.12	415,99		410.83	408.43	PUBLIC
A-10	2'-6"	417.84	417.52	402.597	terminal	HO. CO. D. 4.03	417.76	417.47	411.22		PUBLIC
A-10	2'-6"	416.360	46.04	411,77	terminal	HO. CO. D. 4,03	416,38	416.06	411.62		PUBLIC
A-10	2'-6"	412.04	411.96	408.09	terminal	HO. CO. D. 4.03	412.08	411.77	407.88		PUBLIC
A-5	2'-6"	412.10	412.01	408.11	terminal	HO. CO. D. 4.01	411.90	411.83	408.21		PUBLIC
VortSentry	4'-0"	400.00		393.61	393.57	SEE DETAIL SHEETS 546	401.15		393.48	393.48	PRIVATE
STORM VAULT					*****	SEE DETAIL SHEETS 546					PRIVATE
anhole	4'-0"	419.97		401.75	408.85	Ho.Co. 6.5.12	415.72		409.48	408.88	Rublic

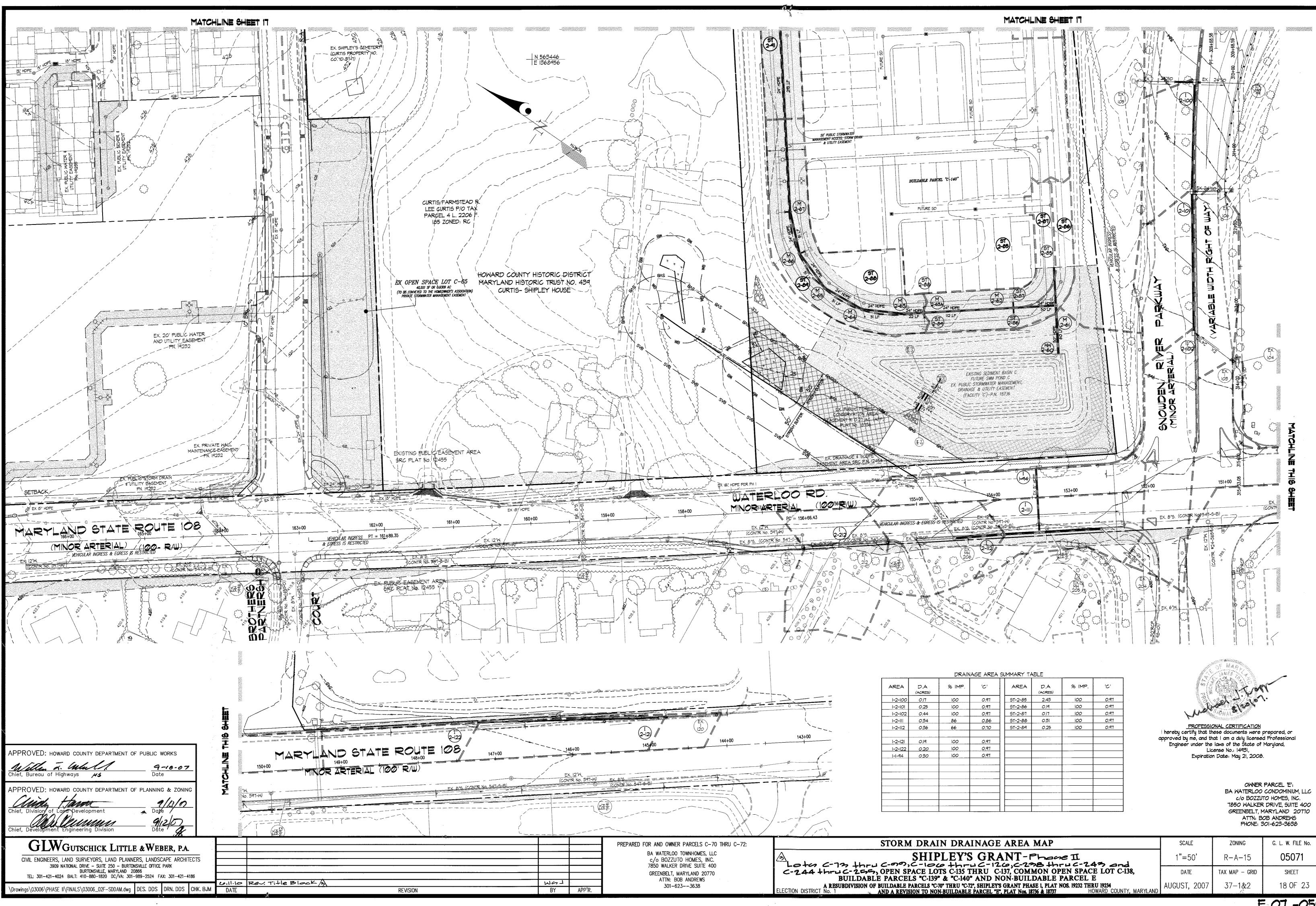
Size	Туре	Quantity	Remarks	S.D. Pipe Summary Table PRIVATELY OWNED AND MAINTAIN				
(in.)		(L.F.)		Size	Туре	Quantity	Remarks	
15	HDPE	105	ADS NIZ or equiv.	(in.)		(L.F.)		
18	HOPE	411	ADS NI2 or equiv.					
24	HOPE	683	ADS N12 or equiv.	6	HDPE	12	ADS NI2 or equiv.	
30	HDPE	60	ADS NI2 or equiv.	15	HDPE	120	ADS NI2 or equiv.	





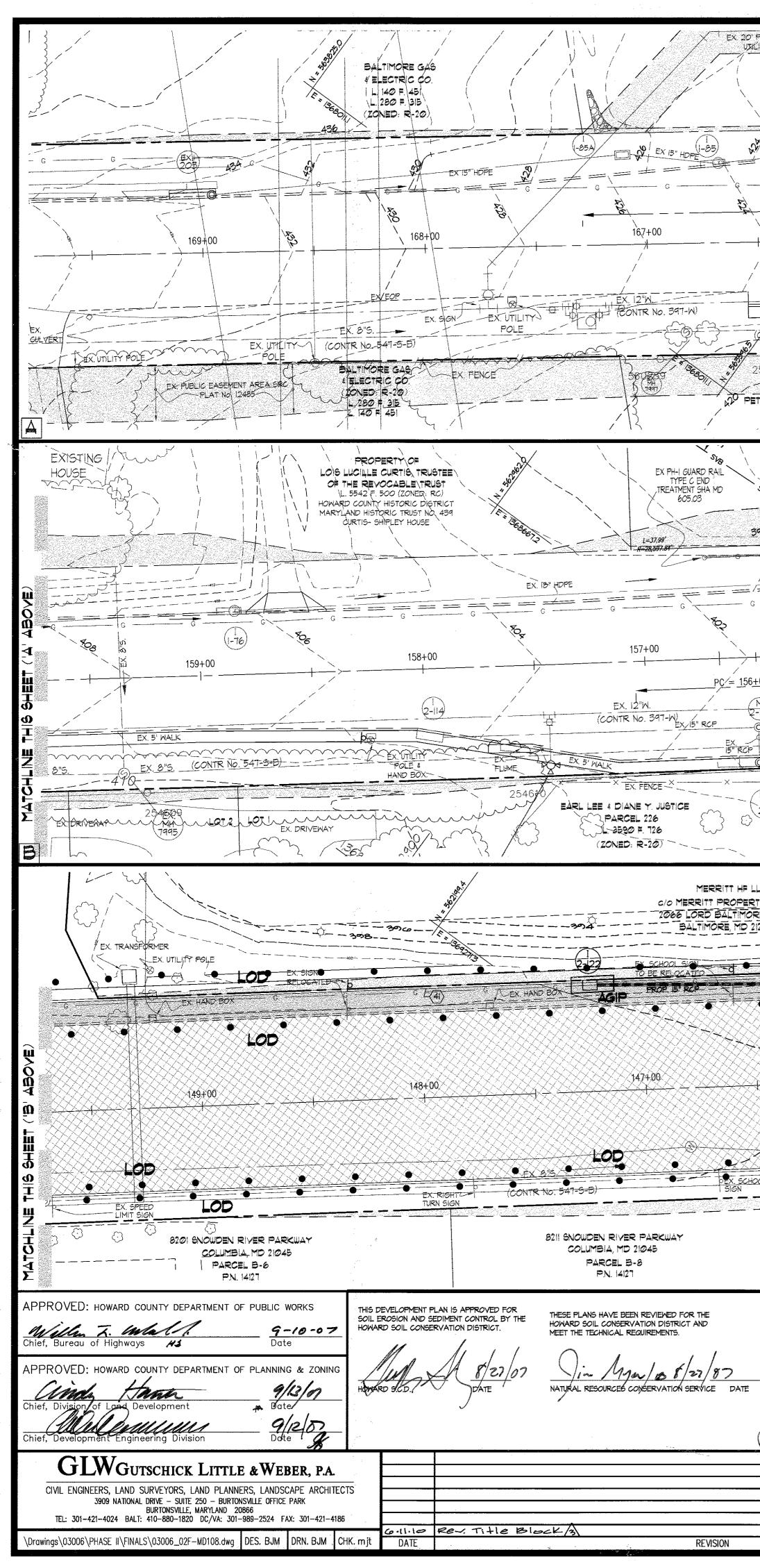
			PREPARED FOR AND OWNER PARCELS C-70 THRU C-72:	STORM
			BA WATERLOO TOWNHOMES, LLC c/o BOZZUTO HOMES, INC.	
A	LOU		7850 WALKER DRIVE SUITE 400 GREENBELT, MARYLAND 20770	C-244thru C-255, OPEN SE BUILDABLE PARCE
	BY BY	APP'R.	ATTN: BOB ANDREWS 301-6233638	A RESUBDIVISION OF BUILDABLE I ELECTION DISTRICT No. 1 AND A REVIS

4	D.A (ACRES)	% IMP.	'ئ					
							:	
25	0.05	100	0.97					
26	0.14	100	0.97					
27	0.09	100	0.91					
28	0.07	100	0.91					
29	0.08	100	0.97					
30	0.04	100	0.91					
3	0.04	100	0.97					
3	0.17	100	0.97					
4	0.04	100	0.97					
5	0.04	100	0.97					R PARCEL 'E':
7	0.11	100	0.47					D CONDOMINIUM, LLC
8	0.06	100	0.97					JTO HOMES, INC.
9	0.16	100	0.97					R DRIVE, SUITE 400
0	0.16	100	0.97					MARYLAND 20770
-1	0.08	100	0.97					30B ANDREWS
							PHONE:	301-623-3638
[]	DRAIN	DRAIN	IAGE A	REA MAP		SCALE	ZONING	G. L. W. FILE No.
SHIPLEY'S GRANT - Phone II						1"=50'	R-A-15	05071
ACE LOTS C-12CO, C-238 + H- J C-243 and ACE LOTS C-135 THRU C-137, COMMON OPEN SPACE LOT C-138,						DATE	TAX MAP – GRID	SHEET



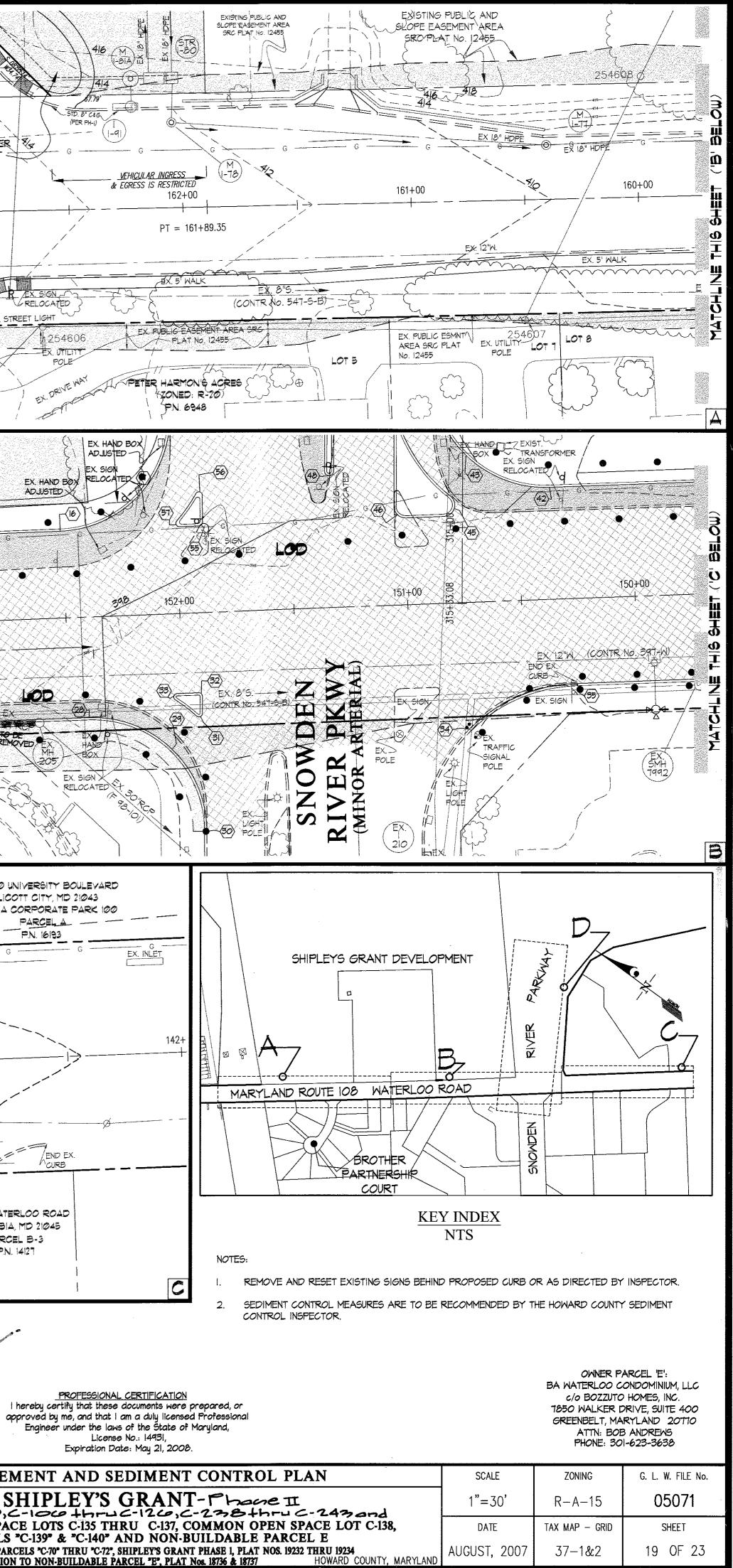
	DRAIN	AGE AREA	SUMMARY TA	BLE		
4 ES)	% IMP.	^י ڪ'	AREA	D.A (ACRES)	% IMP.	'C'
1	100	0.97	ST-2-85	2.43	100	0.97
5	100	0.97	ST-2-86	0.19	100	0.97
4	100	0.97	ST-2-87	0.17	100	0.97
54	86	0.86	ST-2-88	0.31	100	0.97
6	66	07.0	ST-2-89	0.25	100	0.97
7	100	0.97				
0	100	0.97				
0	100	0.97				
			ļ			
						.

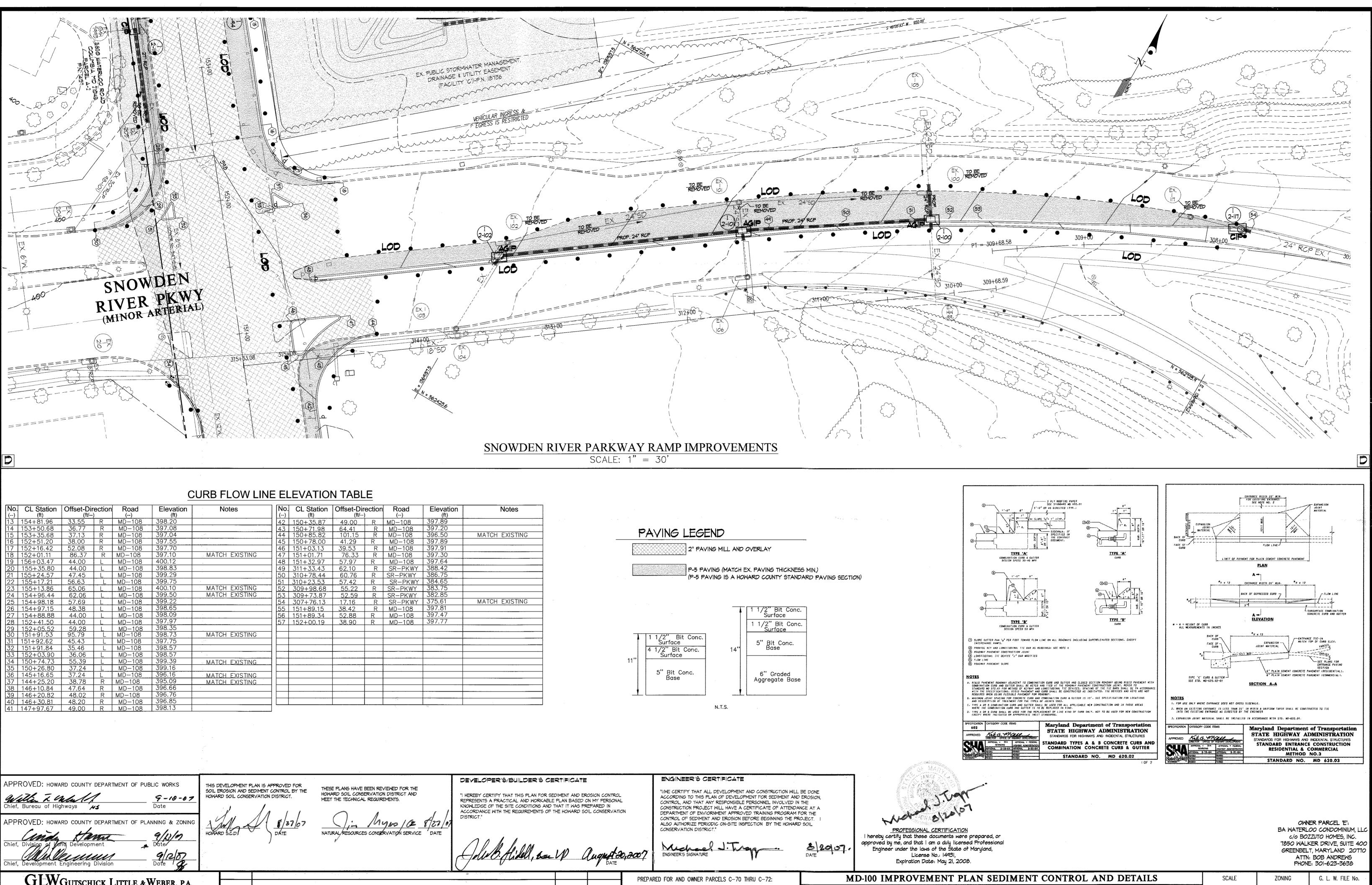
RAIN DRAINAGE AREA MAP	SCALE	ZONING	G. L. W. FILE No.
HIPLEY'S GRANT-Phane II	1"=50'	R-A-15	05071
E LOTS C-135 THRU C-137, COMMON OPEN SPACE LOT C-138, C-139" & "C-140" AND NON-BUILDABLE PARCEL E	DATE	TAX MAP — GRID	SHEET
	AUGUST, 2007	37–1&2	18 OF 23



いがりの人の図み 概念では人できりりお人をきょうが、国人所おきたたうではないなが、ためにでき、などに「人どうなと」「ないない」

PUBLIC WATER AND ITY EASEMENT PN. 19232 EXISTING PUBLIC AND SLOPE-EASEMENT AREA	BUILDABLE PARCEL "A" 3.3839 ÁC - (ZONED: B-1)	EX. PRIVATE M 	SEMENT SO 174 //	ARDS VALLEY ROAD
SRC PLAT No. 12455	<u>N 3705'59" W 538.86'</u> EX 15" HDPE ====================================	EX 15" HDPE	-82 FX PE	RIVATE SRTORMWATER
6 6 6 6 6 6 6 6 7	C - C - EX. PUBLIC STORM I AND UTILITY EASEI PLAT No. 1923: & EGRESS IS RESTRICTED \165+00	MENT	G Ko MAN	AGEMENT EASEMENT = PLAT No. 19232 163+00
	EX. CURB		s (−150)	-00 = 3+13.95
EX. 8"3 EX. 5' WALK	100' RAWSRC PLATMOS 12454 & 1		EX. RCP	EX. B.W. (CONTR No. X X X X X X X X X X X X X X X X X X X
54604 TER HARMON'S ACRES PN. 6848 (ZONED: R-20)	FOLE 2 FOLE 2 FOLE 2 FEX FIEL	254605 PLAT No. 12455		BROTHERS ARTNERSHIF COURT
EX. PUBLIC FOREST CONSERVATION EASEMENT AREA #I 0.27 AC. (AFF.) No PLAT No. 18736 EX. DRAINAGE & SLOPE	(HA) (-90) (EX. PUBLIC STORMWATER DRAINAGE & UTILITY I (FACILITY 'C')-P.N.	MANAGEMENT, EASEMENT 18736 PROP. TREATMENT SHA MD 605.03	
48 EX. DIXANIMOL SRC P.N. 12454 398 EX. PH-1. GUARD RAIL	ROPE DOD 13 + FROP GUAR	EDBAIL • LOB	M 3970844" W 427.93" (5) (14) 0 1 (5) CIP (1-94)	• • • •
G G G G G G G G G G G G G G G G G G G		39 154+00		
66.43 VEHICULAR INGRESS & EGRESS IS RESTRICTED		MD ROUTE 108 - WATERLOO 100' R/W SRC PLAT Nos. 12454 & EX. 12"W. (CONTR NO. 397-W) EX. 8"5.	ROAD EX 12455	
EX-15"RGP	21P (27) 21 (27) 20 (21) (25) (26) (26) (26) (26) (27) (20) (21) (25) (26) (26) (26) (26) (27) (27) (27) (27) (27) (27) (27) (27	EX. SIGN	AND BOX CIP	21" RCP REP REP
EX. POLE RELOCATED () ROUTE 108 CONPERCIAL SECTION 1, AREA (ZONED: NT) CONSTRUCTION 1, AREA CONSTRUCTION 1, AREA CONSTRUCTION 1, AREA	EX. SMH Tag4 Ta	ROUTE 108 COMMERCIAL O ECTION I, AREA I (ZONED: NT)		2 HATERLOO ROAD KUMBIA, MD 21045 PARCEL A-2 PN 14121
$\frac{169 \text{ LLC}}{244} = \frac{1}{2} = $		EX. POAD Sign	IL	6000 I Ellic Columbia
EX. INLET TO BE REMOVED				<u> </u>
			× × 	143+00
EX 12"W (CONTRING, 39T-1/40			× ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	×
	END ER/ CIRBY SIGN	EX. INLET		/
EX. MH 1991	8221 SNOWDEN RIVER PARKWAY Columbia, MD 21045 Parcel B-9 PN, 14121		LEX. CURB ROUTE 108 COMMERCIAL SECTION I, ARE (ZONED: NT)	
DEVELOPER'S/BUILDER'S CERTIFICATE "I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON I KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREP, ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL DISTRICT."	ION CONTROL AY PERSONAL ARED IN CONSERVATION CONSERVATION ACCORDING TO THIS PL CONTROL, AND THAT AN CONSTRUCTION PROJEC DEPARTMENT OF ENVIO CONTROL OF SEDIMENT	L DEVELOPMENT AND CONSTRUCTION WILL BE LAN OF DEVELOPMENT FOR SEDIMENT AND ERA NY RESPONSIBLE PERSONNEL INVOLVED IN THE TWILL HAVE A CERTIFICATE OF ATTENDANCE ORNMENT APPROVED TRAINING PROGRAM FOR AND EROSION BEFORE BEGINNING THE PROJE DDIC ON-SITE INSPECTION BY THE HOWARD SC	OSION, AT A THE CT.	
Adul filel, Ene VP au	Michael DATE	J.Topp.	<u>8/20/07.</u>	ONAL
	PREPARED FOR AND OWNER P/ BA WATERLOO TOV c/o BOZZUTO H 7850 WALKER DRI' GREENBELT, MARY ATTN: BOB A	WNHOMES, LLC HOMES, INC. IVE SUITE 400 YLAND 20770 ANDREWS	Loto C-73 + C-244 +hruc-21 BUILI	DABLE PARCELS
BY	APP'R. 301-623	-3638 El		ION OF BUILDABLE PAI AND A REVISIO

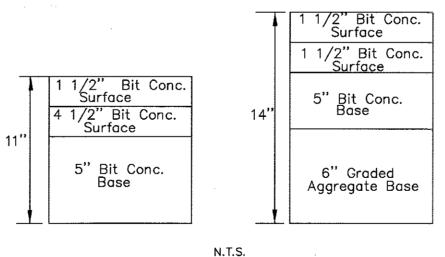




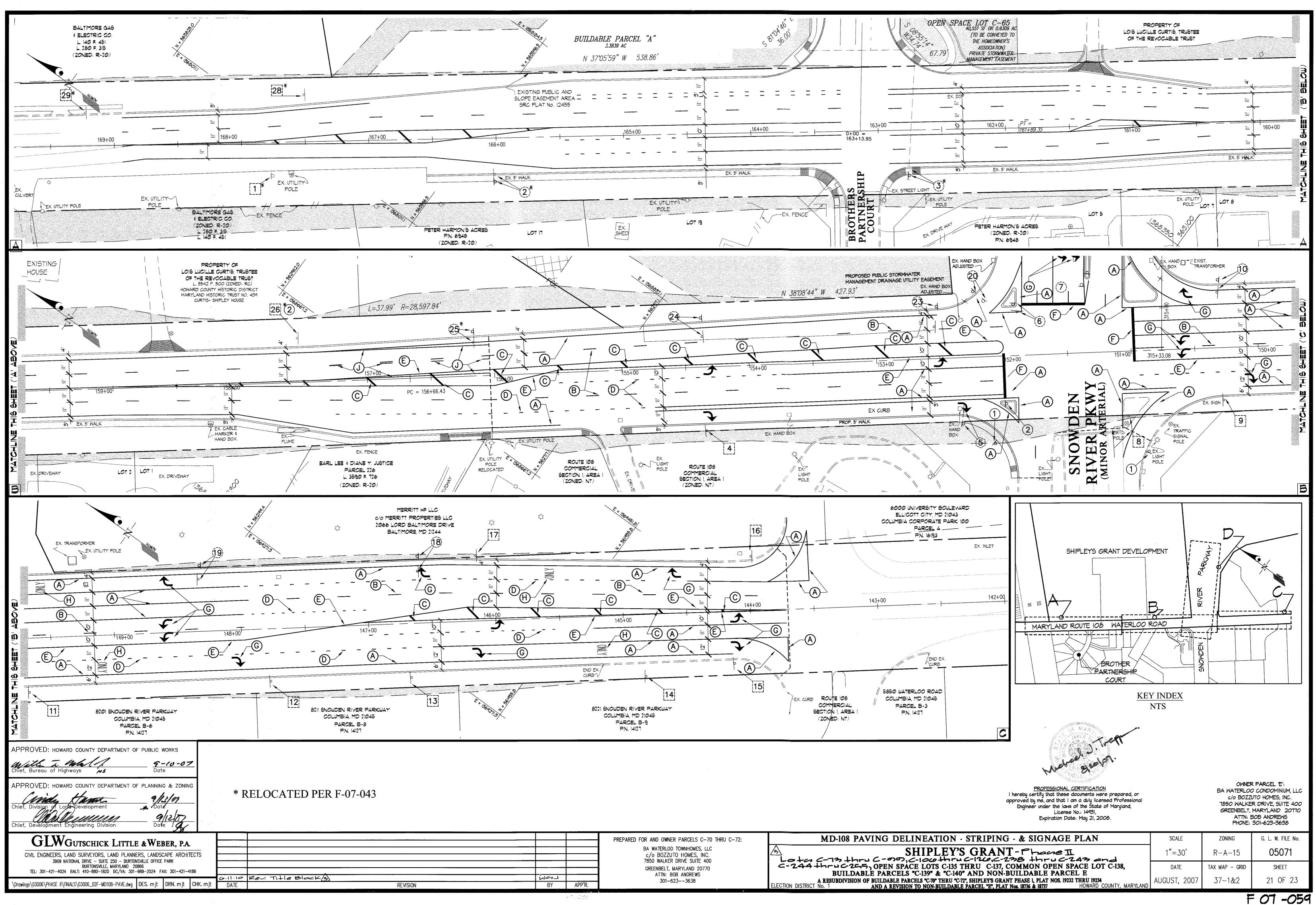
()	(ft)	Offset-Dir		Road	Elevation (ft)	Notes	No.	CL Station	Offset-Dir		Road	Elevat
	154+81.96	33.55	R	MD-108	398.20	• • •	-142	150+35.87	49.00	R	MD-108	397.89
	153+50.68	36.77	R	MD-108	397.08		$\frac{1}{43}$	150+71.98	64.41	R	MD-108	397.20
	153+35.68	37.13	R	MD-108	397.04		-144	150+85.82	101.15	R	MD-108	396.50
16	152+51.20	38.00	R	MD-108	397.55		45	150+78.00	41.29	R	MD-108	397.89
17	152+16.42	52.08	R	MD-108	397.70	· · · · · · · · · · · · · · · · · · ·	46	151+03.13	39.53	R	MD-108	397.91
	152+01.11	86.37	R	MD-108	397.10	MATCH EXISTING	47	151+01.71	76.33	R	MD-108	397.30
	156+03.47	44.00	L	MD-108	400.12	•	48	151+32.97	57.97	R	MD-108	397.64
	155+35.80	44.00	L	MD-108	398.83		49	311+33.43	62.10	R	SR-PKWY	388.42
	155+24.57	47.45	L	MD-108	399.29	•	50	310+78.44	60.76	R	SR-PKWY	386.75
	155+17.21	56.63	L	MD-108	399.75	1	51	310+23.53	57.42	R	SR-PKWY	384.65
23	155+13.86	65.06	L	MD-108	400.10	MATCH EXISTING	52	309+98.68	55.22	R	SR-PKWY	383.75
	154+96.44	62.06	Ļ	MD-108	399.50	MATCH EXISTING	53	309+73.87	52.59	R	SR-PKWY	382.85
25	154+98.18	57.69	L	MD-108	399.22		54	307+76.13	17.16	R	SR-PKWY	375.61
	154+97.15	48.38	L	MD-108	398.65		55	151+89.15	38.42	R	MD-108	397.81
	154+88.88	44.00		MD-108	398.09		56	151+89.34	52.88	R	MD-108	397.47
28	152+41.50	44.00	L	MD-108	397.97		57	152+00.19	38.90	R	MD-108	397.77
29	152+05.52	59.28	L	MD-108	398.35	,						
30	151+91.53	95.79	L	MD-108	398.73	MATCH EXISTING						
	151+92.62	45.43	L	MD-108	397.75							
	151+91.84	35.46	L	MD-108	398.57							
	152+03.90	36.06	L	MD-108	398.57	:						
	150+74.73	55.39	L	MD-108	399.39	MATCH EXISTING						
35	150+26.80	37.24	L	MD-108	399.16				-			
36	145+16.65	37.24	L.	MD-108	396.16	MATCH EXISTING						
	144+25.20	38.78	R	MD-108	395.09	MATCH EXISTING						
	146+10.84	47.64	R	MD-108	396.66	•						
	146+20.82	48.02	R	MD-108	396.76							15
	146+30.81	48.20	R	MD-108	396.85						1.4	
41	147+97.67	49.00	R	MD-108	398.13		·				·.	19. 19.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	SOIL EROSION AND	PLAN IS APPROVED FOR SEDIMENT CONTROL BY THE SERVATION DISTRICT.	THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.	DEVELOPER'S/BUILDER'S CERTIFICA "I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND REPRESENTS A PRACTICAL AND WORKABLE PLAN BASE KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD DISTRICT."	EROSION CONTRO ED ON MY PERSON 5 PREPARED IN	ACCONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDA DEPARTMENT OF ENVIORNMENT APPROVED TRAINING PROGRAM I CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PR ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD CONSERVATION DISTRICT."	2 EROSION, I THE NOE AT A FOR THE ROJECT. I	PROFESSIONAL CERT A proved by me, and that I am a Engineer under the laws of th License No.: Expiration Date: Ma
GLWGUTSCHICK LITTLE & WEBER, P.A.						PREPARED FOR AND OWNER PARCELS C-70 THRU C-72:	M	D-100 IMPROVEMEN
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECT 3909 NATIONAL DRIVE – SUITE 250 – BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186						BA WATERLOO TOWNHOMES, LLC c/o BOZZUTO HOMES, INC. 7850 WALKER DRIVE SUITE 400 GREENBELT, MARYLAND 20770 ATTN: BOB ANDREWS		-7か +hru C-のの、C -hru C-255,OPEN SP BUILDABLE PARCEI
\Drawings\03006\PHASE II\FINALS\03006_02F-MD108.dwg DES. BJM DRN. BJM CH		Rev. Title Bla	REVISION	BY	APP'R.	301-6233638	ELECTION DISTRICT	A RESUBDIVISION OF BUILDABLE P. No. 1 AND A REVIS

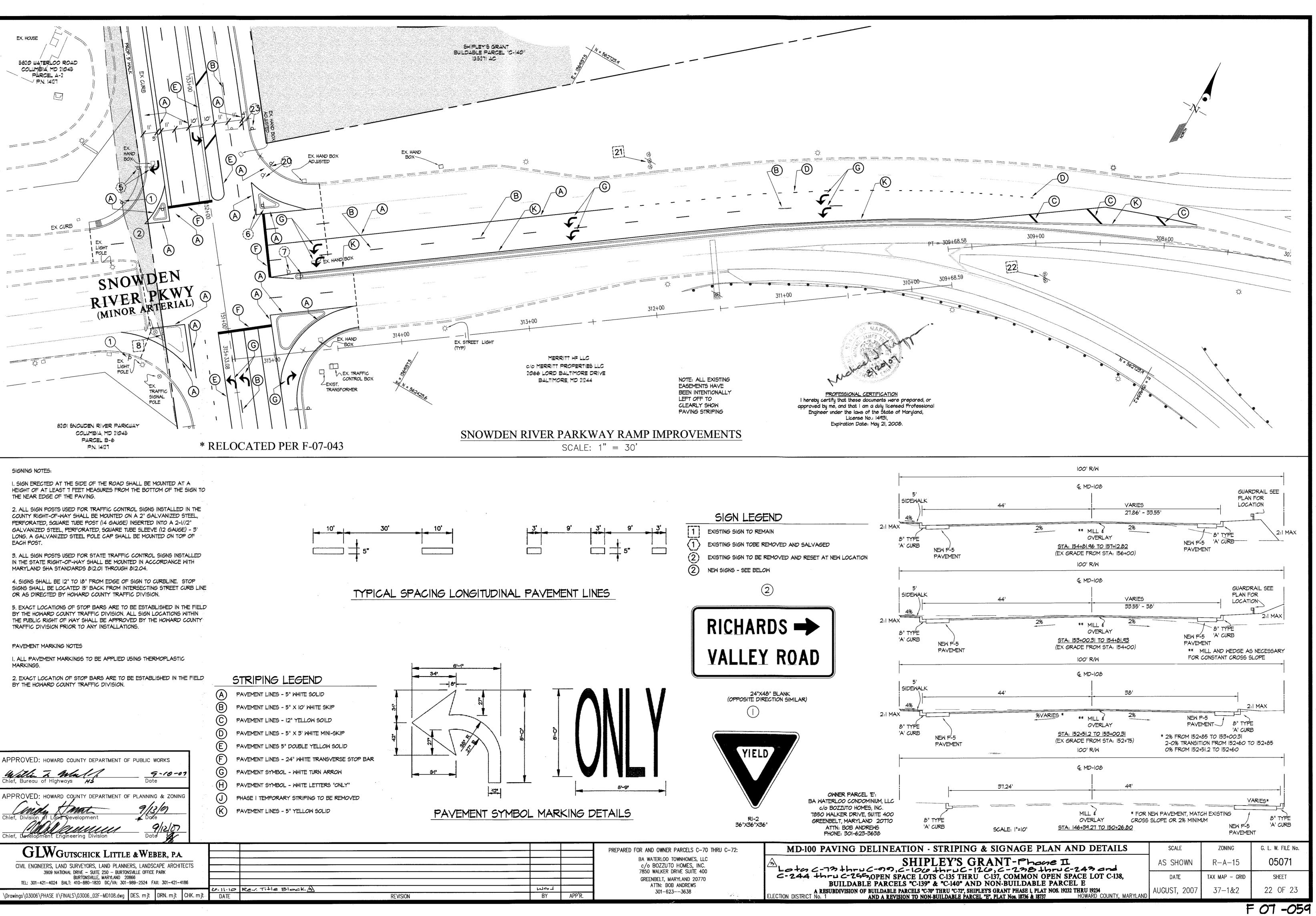
÷



SHIPLEY'S GRANT-Phane II 05071 AS SHOWN R-A-15 PACE LOTS C-135 THRU C-137, COMMON OPEN SPACE LOT C-138, DATE SHEET TAX MAP - GRID LS "C-139" & "C-140" AND NON-BUILDABLE PARCEL E 37-1&2 20 OF 23 PARCELS *C-70" THRU *C-72", SHIPLEY'S GRANT PHASE 1, PLAT NOS. 19232 THRU 19234 SION TO NON-BUILDABLE PARCEL *E", PLAT Nos. 18736 & 18737 HOWARD C AUGUST, 2007 HOWARD COUNTY, MARYLAND



		PREPARED FOR AND OWNER PARCELS C-70 THRU C-72:	MD-108 PAVING DELI
		BA WATERLOO TOWNHOMES, LLC c/o BOZZUTO HOMES, INC. 7850 WALKER DRIVE SUITE 400	A Starberg C-73 thru C-00,C
		GREENBELT, MARYLAND 20770 ATTN: BOB ANDREWS	C=244 thru C-00, C- BUILDABLE PARCELS *C
BY	APP'R.	301-6233638	A RESUBDIVISION OF BUILDABLE PARCE ELECTION DISTRICT No. 1 AND A REVISION T
		a	



	C	PAVEMENT LINES - 12" YELLOW SOILD	
	D	PAVEMENT LINES - 5" X 3' WHITE MINI-SKIP	5
	. E	PAVEMENT LINES 5" DOUBLE YELLOW SOLID	n an ang the second
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	F	PAVEMENT LINES - 24" WHITE TRANSVERSE STOP BAR	
Wittin T. Mall. 9-10-07	G	PAVEMENT SYMBOL - WHITE TURN ARROW	
Chief, Bureau of Highways H3 Date		PAVEMENT SYMBOL - WHITE LETTERS "ONLY"	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	J	PHASE I TEMPORARY STRIPING TO BE REMOVED	
Chief, Division of Land Development	K	PAVEMENT LINES - 5" YELLOW SOLID	
Chief, Development Engineering Division 9/12/07 Date			
GLWGUTSCHICK LITTLE & WEBER, P.A.			
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECT 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK	TS		
BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186			
\Drawings\0.3006\PHASE II\FINALS\0.3006 02F-MD108.dwg DES. mit DRN. mit CHI	د. ۱۱۰۱، K. mit DATE	O Rev. Title Block B	REVISION

