

MAINSTREET BANCSHARES, INC.
 10089 FAIRFAX BLVD
 FAIRFAX, VA 22030

VOTE BY INTERNET - www.proxyvote.com

Use the Internet to transmit your voting instructions and for electronic delivery of information. Vote by 11:59 P.M. ET on 05/15/2018. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

ELECTRONIC DELIVERY OF FUTURE PROXY MATERIALS

If you would like to reduce the costs incurred by our company in mailing proxy materials, you can consent to receiving all future proxy statements, proxy cards and annual reports electronically via e-mail or the Internet. To sign up for electronic delivery, please follow the instructions above to vote using the Internet and, when prompted, indicate that you agree to receive or access proxy materials electronically in future years.

VOTE BY PHONE - 1-800-690-6903

Use any touch-tone telephone to transmit your voting instructions. Vote by 11:59 P.M. ET on 05/15/2018. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

VOTE BY MAIL

Mark, sign and date your proxy card and return it in the postage-paid envelope we have provided or return it to Vote Processing, c/o Broadridge, 51 Mercedes Way, Edgewood, NY 11717.

TO VOTE, MARK BLOCKS BELOW IN BLUE OR BLACK INK AS FOLLOWS:

KEEP THIS PORTION FOR YOUR RECORDS
 DETACH AND RETURN THIS PORTION ONLY

THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED.

The Board of Directors recommends you vote FOR
 Proposals 1, 2 and 3:

For All Withhold All For All Except

To withhold authority to vote for any individual nominee(s), mark "For All Except" and write the number(s) of the nominee(s) on the line below.

1. Nominees for Three-Year Terms

Nominees

01 Thomas J. Chmelik. 02 Patsy I. Rust 03 Charles C. Brockett

2 Amendment to the Articles of Incorporation to increase the number of authorized shares of Common Stock from 7,500,000 to 10,000,000.

For Against Abstain

3 The ratification of the appointment of Yount, Hyde & Barbour, P.C. as the Company's independent auditor for the fiscal year ending December 31, 2018.

For Against Abstain

NOTE: Such other business as may properly come before the meeting or any adjournment thereof.

Please sign exactly as your name(s) appear(s) hereon. When signing as attorney, executor, administrator, or other fiduciary, please give full title as such. Joint owners should each sign personally. All holders must sign. If a corporation or partnership, please sign in full corporate or partnership name, by authorized officer.

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Signature [PLEASE SIGN WITHIN BOX] Date

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Signature (Joint Owners) Date

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Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting: The Annual Report, Notice and Proxy Statement are available at https://www.mstreetbank.com/corporate_information.

**MAINSTREET BANCSHARES, INC.
Annual Meeting of Shareholders
May 16, 2018, 11:00 AM
This proxy is solicited by the Board of Directors**

The undersigned shareholder(s) hereby appoint(s) Terry Saeger and Elizabeth S. Bennett, or either of them, as proxies, each with the power to appoint (his/her) substitute, and hereby authorizes them to represent and to vote, as designated on the reverse side of this Proxy, all of the shares of Common stock of MAINSTREET BANCSHARES, INC. that the shareholder(s) is/are entitled to vote at the Annual Meeting of Shareholder(s) to be held at 11:00 AM, EDT on May 16, 2018, at the MainStreet Bank headquarters, 10089 Fairfax Blvd, Fairfax, VA 22030, and any adjournment or postponement thereof.

This proxy, when properly executed, will be voted in the manner directed herein. If no such direction is made, this proxy will be voted in "For" Proposals 1, 2 and 3. If any other business is presented as to which this proxy confers discretionary authority, this proxy will be voted as determined by a majority of the Board of Directors. You may revoke this proxy at any time before it is voted at the Annual Meeting.

THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" ALL THE BOARD NOMINEES (PROPOSAL 1), "FOR" AMENDING THE ARTICLES (PROPOSAL 2), AND "FOR" RATIFICATION OF APPOINTMENT OF INDEPENDENT AUDITOR (PROPOSAL 3).

Continued and to be signed on reverse side