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**Section 1: 11-K (UMB 2019 11-K)**

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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**FORM 11-K**

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**ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the fiscal year ended December 31, 2019

**TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission file number 001-38481

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**A. Full title of the plan:**

UMB Profit Sharing and 401(k) Savings Plan

**B. Name of the issuer of the securities held pursuant to the plan and the address of its principal executive office:**

UMB Financial Corporation  
1010 Grand Boulevard  
Kansas City, Missouri 64106

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**UMB PROFIT SHARING AND 401(k) SAVINGS PLAN  
FINANCIAL STATEMENTS  
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**Report of Independent  
Registered Public Accounting Firm**

Audit Committee of UMB Financial Corporation and Plan Participants of  
UMB Profit Sharing and 401(k) Savings Plan  
Kansas City, Missouri

**Opinion On The Financial Statements**

We have audited the accompanying statement of net assets available for benefits of UMB Profit Sharing and 401(k) Savings Plan (the Plan) as of December 31, 2019 and 2018, and the related statement of changes in net assets available for benefits for the years then ended, and related notes (collectively referred to as the financial statements). In our opinion, the financial statements present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2019 and 2018, and the changes in net assets available for benefits for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

**Basis For Opinion**

These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on the Plan's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Plan in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

**Supplemental Information**

The supplemental schedule of assets held at end of year as of December 31, 2019 has been subjected to audit procedures performed in conjunction with the audit of the Plan's financial statements. The supplemental information is the responsibility of the Plan's management. Our audit procedures included determining whether the supplemental information reconciles to the financial statements or the underlying accounting and other records, as applicable, and performing procedures to test the completeness and accuracy of the information presented in the supplemental information. In forming our opinion on the supplemental information, we evaluated whether the supplemental information, including its form and content, are presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. In our opinion, the supplemental information is fairly stated, in all material respects, in relation to the financial statements as a whole.

/s/ RubinBrown LLP

We have served as the Plan's auditor since 2010.

Kansas City, Missouri  
June 19, 2020

**UMB PROFIT SHARING AND 401(k) SAVINGS PLAN  
STATEMENT OF NET ASSETS AVAILABLE FOR BENEFITS**

	<b>December 31,</b>	
	<b>2019</b>	<b>2018</b>
<b>Assets:</b>		
<b>Investments, at fair value:</b>		
Share of net assets of UMB Retirement Master Trust	\$ 446,322,464	\$ 356,593,742
<b>Receivables:</b>		
Employer contributions	1,539,099	1,250,895
Notes receivable from participants	8,254,369	7,673,954
<b>Total receivables</b>	<b>9,793,468</b>	<b>8,924,849</b>
<b>Net assets available for benefits</b>	<b>\$ 456,115,932</b>	<b>\$ 365,518,591</b>

See accompanying Notes to Financial Statements.

**UMB PROFIT SHARING AND 401(k) SAVINGS PLAN  
STATEMENT OF CHANGES IN NET ASSETS  
AVAILABLE FOR BENEFITS**

	<b>Year Ended December 31,</b>	
	<b>2019</b>	<b>2018</b>
<b>Additions to net assets attributed to:</b>		
<b>Contributions</b>		
Employer contributions	\$ 11,280,789	\$ 10,335,658
Employee contributions	25,367,417	23,560,015
Rollover contributions	5,735,512	2,693,026
<b>Total contributions</b>	<u>42,383,718</u>	<u>36,588,699</u>
<b>Deductions from net assets attributed to:</b>		
Benefits paid directly to participants	34,848,940	39,989,100
Administrative expenses	117,190	117,373
<b>Total deductions</b>	<u>34,966,130</u>	<u>40,106,473</u>
<b>Investment income (loss)</b>		
Plan interest in UMB Retirement Master Trust investment income (loss)	82,772,893	(17,337,402)
<b>Interest income on notes receivable from participants</b>	<u>358,123</u>	<u>288,079</u>
<b>Increase (decrease) in net assets available for benefits before transfers</b>	90,548,604	(20,567,097)
<b>Transfers from The ESOP of UMB</b>	<u>48,737</u>	<u>552,927</u>
<b>Increase (decrease) in net assets available for benefits</b>	90,597,341	(20,014,170)
<b>Net assets available for benefits - beginning of year</b>	<u>365,518,591</u>	<u>385,532,761</u>
<b>Net assets available for benefits - end of year</b>	<u>\$ 456,115,932</u>	<u>\$ 365,518,591</u>

See accompanying Notes to Financial Statements.

**UMB PROFIT SHARING AND 401(k) SAVINGS PLAN**  
**NOTES TO FINANCIAL STATEMENTS**  
**December 31, 2019 and 2018**

**1. Description of the Plan**

The following description of the UMB Profit Sharing and 401(k) Savings Plan (the Plan) provides only general information. Participants should refer to the Plan Agreement for a more complete description of the Plan's provisions.

**General**

The Plan is a defined contribution profit sharing plan covering substantially all employees of UMB Financial Corporation and affiliates (collectively, the Company or UMB) and provides for retirement, disability and death benefits. It is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA), as amended.

**Eligibility and Participation**

Employees are eligible to make elective deferral contributions and receive the Company matching contribution upon the first of the month following one month of employment. The Plan provides that employees with one year of service and 1,000 hours of service each year become eligible to participate in the profit sharing portion of the Plan. Employees are eligible to receive the Company profit sharing contribution on the earlier of the first day of the Plan year or the first day of the seventh month of the Plan year after satisfying eligibility requirements. With limited exceptions, participants must be actively employed on the last day of the Plan year to share in any Company profit sharing contributions.

**Contributions**

Contributions are subject to certain Internal Revenue Code (IRC) limitations.

*Employee Contributions:*

Each year, participants may contribute up to 50 percent of their annual compensation as defined in the Plan Agreement. In addition, all employees who are eligible to make elective deferral contributions under the Plan and have attained age 50 shall be eligible to make catch-up contributions in accordance with the Plan Agreement. Participants may also contribute amounts representing distributions from other qualified defined benefit or defined contribution plans.

All employees of UMB hired on or after January 1, 2008 who are otherwise eligible for the Plan, are subject to an "automatic election," under which the Company will withhold 3 percent of compensation from the new employee's paycheck each payroll period. That amount is contributed to the Plan as an elective deferral contribution, unless these employees complete a salary deferral agreement electing a different percentage. The automatic election is withheld from the paycheck following the employee's completion of eligibility for the Plan, which is the first of the month following completion of one month of service. The automatic salary deferral will be invested in the Vanguard Balanced Index Fund unless otherwise directed by the employee. The employee may modify the automatic election at any time to elect an alternative deferral amount or elect not to defer into the Plan.

*Employer Matching Contributions:*

The Company will determine each year the amount, if any, that will be contributed to the Plan. The Company allows for matching contributions determined annually by the Chairman of the Board of Directors of the Company at his discretion. The matching contribution is based on the participant's eligible compensation for each payroll period and is funded during the year. The Company may make an additional discretionary matching contribution equal to the true-up contribution that would be required as if the matching contribution was based on the participant's eligible annual compensation. After satisfying eligibility requirements, the Company matched 50 percent of the first 8 percent of a participant's contributions. For the 2019 plan year, the Company contributed \$10,280,789, of which \$539,099 was included in employer contributions receivable at December 31, 2019. For the 2018 plan year, the Company contributed \$9,588,925, of which \$500,895 was included in employer contributions receivable at December 31, 2018.

### *Employer Profit Sharing Contributions:*

The Plan allows for profit sharing contributions by the Company to be determined annually by the Chairman of the Board of Directors of the Company at his discretion. The Company made total profit sharing contributions of \$2,000,000 and \$1,500,000 related to the 2019 and 2018 plan years, respectively. Company profit sharing contributions, as determined above, are divided between the Plan and The ESOP of UMB (the ESOP), at the discretion of the Board of Directors of the Company. Profit sharing contributions to the Plan amounted to \$1,000,000 and \$750,000 for plan years 2019 and 2018, respectively. As of December 31, 2019 and 2018, \$1,000,000 and \$750,000 was included in employer contributions receivable, respectively.

### **Participant Accounts**

A separate account is maintained for each participant in the Plan. Each participant's account is credited with the participant's contributions and allocations of (1) the Company's contributions, (2) forfeitures of terminated participants' nonvested accounts, and (3) Plan earnings, and charged with an allocation of Plan losses and administrative expenses. Allocations are based on participant earnings, participant elective deferrals or account balances, as defined and subject to certain limits. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account. Qualified participants are able to transfer a portion of their account balances from the ESOP to the Plan.

### **Notes Receivable from Participants**

Participants may borrow from their accounts a minimum of \$500 up to a maximum equal to the lesser of \$50,000 or 50 percent of their vested account balance. The loans are secured by the balance in the participant's account. Additionally, all loans are made for a period not to exceed five years unless proceeds of such loan are exclusively used for the acquisition of a dwelling unit to be used as the principal residence of the participant. Interest rates for residential loans are BMO Harris Bank NA's 15-year mortgage rate. Interest rates for all other loans are the greater of BMO Harris Bank NA's prime rate or BMO Harris Bank NA's five-year CD rate plus 2 percent. Principal and interest is paid ratably through payroll deductions. The loans bear interest ranging from 2.75 percent to 9.00 percent, with maturity dates through August 2039.

### **Vesting and Forfeitures**

Participants are vested immediately in their contributions and the Company matching contribution plus actual earnings thereon. For profit sharing contributions participants are 50 percent vested after two years of service and 100 percent vested after three years of service.

The Company, at its discretion, determines how forfeited nonvested accounts will be used in accordance with the Plan. At December 31, 2019 and 2018, available forfeited nonvested accounts totaled \$3,521 and \$7,703, respectively. The Company allocated \$40,952 of forfeited balances during 2019 to remaining participant accounts. There were no forfeited balances utilized in 2018.

### **Benefits**

The account balance, to the extent it is vested, will be paid upon request to participants who have become disabled, retired or otherwise left the Company. Employees are not allowed to withdraw any portion of the Company contributions prior to age 59½; however, subject to the Plan's restrictions, participants may withdraw all or a portion of their account balances from certain sources while remaining employed.

The Plan also provides that when a participant terminates their employment and the participant's interest in the Plan, if the vested account balance, excluding amounts attributable to any rollovers, does not exceed \$5,000, a lump sum distribution will be made to the participant. If the deferred vested account balance is less than \$1,000, the balance will be distributed to the participant in cash. If the deferred vested account balance is between \$1,000 and \$5,000, the participant's balance will be rolled over to a BMO Harris Bank NA money market IRA, if the participant does not make a distribution election.

### **Participant Hardship Withdrawals**

A participant may withdraw all or a portion of their contributions subject to hardship withdrawal provisions.

## **2. Summary of Significant Accounting Policies**

### **Basis of Accounting and Use of Estimates**

The financial statements of the Plan are prepared using the accrual method of accounting. The preparation of financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates that affect the financial statements and accompanying notes. Actual results could differ from those estimates.

### **Risks and Uncertainties**

The Plan, via the UMB Retirement Master Trust, invests in various investment securities. Investment securities, in general, are exposed to various risks, such as interest rate, credit, and overall market volatility. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the financial statements.

### **Valuation of Investments**

Investments in the UMB Retirement Master Trust are stated at fair value. Securities traded in public markets are valued at their quoted market prices. Participants do not have beneficial ownership in specific underlying securities or other assets in the various funds, but have an interest therein represented by units valued as of the last business day of the period. The various funds earn dividends and interest which are automatically reinvested in additional units. Generally, contributions to and withdrawal payments from each fund are converted to units by dividing the amounts of such transactions by the unit values as last determined, and the participants' accounts are charged or credited with the number of units properly attributable to each participant.

### **Recognition of Investment Income**

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation or depreciation includes the Plan's gains and losses on investments bought and sold, as well as held during the year.

### **Notes Receivable from Participants**

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Related fees are recorded as administrative expenses and are expensed when they are incurred. No allowance for credit losses has been recorded as of December 31, 2019 or 2018. If a participant ceases to make loan repayments and the Plan Administrator deems the participant loan to be in default, the participant loan balance is reduced and a benefit payment is recorded.

### **Payment of Benefits**

Benefit payments to participants are recorded when paid.

### **Costs and Expenses**

Fees related to certain terminated participant accounts, administration of notes receivable from participants and distributions are charged directly to the participant's account and are included in administrative expenses. Investment related expenses are included in investment income. The Plan used \$200,321 and \$195,072 of proceeds from a revenue sharing arrangement, which are held in a BMO Harris Bank NA money market fund, to pay administrative fees in 2019 and 2018, respectively. Any proceeds remaining from the revenue sharing arrangement at the end of the year are allocated on a pro-rata basis to participant accounts in the Plan.



### 3. UMB Retirement Master Trust

The assets of the Plan and the ESOP are combined into the UMB Retirement Master Trust (the Master Trust), a master trust established by the Company and administered by BMO Harris Bank NA (the Trustee). Use of the Master Trust permits the commingling of Plan assets with the assets of the ESOP for investment and administrative purposes. At December 31, 2019 and 2018, the Plan's assets relate to its share of the allocated net assets of the Master Trust. Although assets of both plans are commingled in the Master Trust, the Trustee maintains supporting records for the purpose of allocating investment income or loss to the participating plans. The net investment income or loss of the investment assets is allocated by the Trustee to each participating plan on a basis proportionate to the Plan's share of net assets. All other activity is recorded in the Plan based on the elections of the individual participants in the Plan.

The following table presents the net assets of the Master Trust and the Plan's interest in the net assets of the Master Trust at December 31, 2019 and 2018:

	2019		2018	
	Master Trust	Plan's Interest in Master Trust	Master Trust	Plan's Interest in Master Trust
Investments, at fair value:				
Mutual funds	\$ 411,226,626	\$ 411,226,626	\$ 327,432,021	\$ 327,432,021
UMB Company Stock Fund	73,894,978	12,419,481	70,775,033	11,871,437
Money market funds	22,574,841	22,574,841	17,189,362	17,189,362
Total investments	<u>507,696,445</u>	<u>446,220,948</u>	<u>415,396,416</u>	<u>356,492,820</u>
Receivables:				
Other	101,516	101,516	100,922	100,922
Net assets	<u>\$ 507,797,961</u>	<u>\$ 446,322,464</u>	<u>\$ 415,497,338</u>	<u>\$ 356,593,742</u>

Income of the Master Trust includes net appreciation or depreciation in the fair value of investments and dividend and interest income. Net appreciation or depreciation in the fair value of its investments consists of the realized gains or losses and the unrealized appreciation or depreciation of those investments.

The following are changes in net assets for the Master Trust for the years ended December 31, 2019 and 2018:

	2019	2018
Total transfers in	\$ 47,054,550	\$ 50,232,187
Total transfers out	(45,658,806)	(55,338,602)
Net transfers	1,395,744	(5,106,415)
Dividend and interest income	15,324,724	18,622,776
Net appreciation (depreciation) in fair value of investments	75,709,435	(45,012,574)
Administrative expenses	(129,280)	(131,740)
Increase (decrease) in net assets	<u>92,300,623</u>	<u>(31,627,953)</u>
Net assets:		
Beginning of year	415,497,338	447,125,291
End of year	<u>\$ 507,797,961</u>	<u>\$ 415,497,338</u>

### 4. Fair Value Measurements

The Master Trust utilizes an established framework for measuring fair value. That framework provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority

to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of the fair value hierarchy are described below:

Level 1 Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Master Trust has the ability to access.

Level 2 Inputs to the valuation methodology include:

- Quoted prices for similar assets or liabilities in active markets;
- Quoted prices for identical or similar assets or liabilities in inactive markets;
- Inputs other than quoted prices that are observable for the asset or liability;
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Level 3 Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The asset's or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

Following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2019 or 2018.

#### Mutual Funds and Money Market Funds

Mutual funds and money market funds are valued at the daily closing price as reported by the fund. Mutual funds and money market funds held by the Master Trust are open end mutual funds and money market funds that are registered with the Securities and Exchange Commission. These funds are required to publish their daily net asset value (NAV) and to transact at that price. The mutual funds and money market funds held by the Master Trust are deemed to be actively traded.

#### UMB Company Stock Fund

The UMB Company Stock Fund is valued at the NAV of shares held by the Master Trust at year end, which is used as a practical expedient to estimate fair value. The NAV is determined by dividing the net assets of the UMB Company Stock Fund by the number of units outstanding on the day of valuation. The UMB Company Stock Fund is comprised of assets that are traded on an active market and cash equivalents.

The following table sets forth by level, within the fair value hierarchy, the Master Trust's assets measured at fair value on a recurring basis as of December 31, 2019:

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Mutual funds	\$ 411,226,626	\$ —	\$ —	\$ 411,226,626
Money market funds	22,574,841	—	—	22,574,841
Total assets in the fair value hierarchy	<u>\$ 433,801,467</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 433,801,467</u>
UMB Company Stock Fund <sup>(1)</sup>				73,894,978
Total investments at fair value				<u>\$ 507,696,445</u>

The following table sets forth by level, within the fair value hierarchy, the Master Trust's assets measured at fair value on a recurring basis as of December 31, 2018:

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Mutual funds	\$ 327,432,021	\$ —	\$ —	\$ 327,432,021
Money market funds	17,189,362	—	—	17,189,362
Total assets in the fair value hierarchy	<u>\$ 344,621,383</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 344,621,383</u>
UMB Company Stock Fund <sup>(1)</sup>				70,775,033
Total investments at fair value				<u>\$ 415,396,416</u>

(1) Certain investments that are measured at fair value using the NAV per share (or its equivalent) practical expedient have not been categorized in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented in Note 3.

## 5. Plan Termination

Although it has not expressed any intention to do so, the Board of Directors of UMB has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions set forth in ERISA. In the event that the Plan is terminated, participants become 100 percent vested in their accounts and the Plan provides that its net assets be used to pay all expenses and benefits due and will distribute the remaining assets among the Plan participants based upon their account balance.

## 6. Tax Status

The Plan uses a prototype document sponsored by BMO Harris Bank NA. BMO Harris Bank NA received an opinion letter from the Internal Revenue Service (IRS) dated January 27, 2015, which states that the prototype document satisfies the applicable requirements of the Internal Revenue Code (Code). The Plan itself has not received a determination letter from the IRS. However, the Plan's management believes that the Plan is currently designed and being operated in compliance with the applicable requirements of the Code. Therefore, no provision for income taxes has been included in the Plan's financial statements. The Plan is subject to routine audits by taxing jurisdictions; however there are currently no audits for any tax period in progress. The Plan's federal tax returns for tax years 2016 and later remain subject to examination by taxing authorities.

## 7. Related Party and Party In Interest Transactions

At December 31, 2019 and 2018, included in the Plan's share of net assets of the Master Trust, via the UMB Company Stock Fund, are 180,017 and 193,645 shares, respectively, of UMB's common stock at a fair value of \$12,356,368 and \$11,806,562, respectively. All of the above transactions are exempt party in interest transactions under ERISA.

## 8. Transfers from The ESOP of UMB

The ESOP allows participants to diversify their investment in Company stock by transferring a portion of their investment in Company stock from the ESOP into other investment options offered by the Plan. Participants who are at least age 50 with at least 10 years of service may elect to transfer a portion of their ESOP account balance to the Plan. A participant may diversify up to 25 percent of the number of shares allocated to their account, less any shares previously diversified. Upon attaining age 60, the percentage changes to 50 percent.

## 9. Subsequent Events

On March 27, 2020, the Coronavirus Aid, Relief and Economic Security, or CARES, Act was passed into law. The CARES Act outlines special rules for use of retirement funds for those affected by COVID-19 that temporarily allow for the following: tax-favored withdrawals, increased loan limits to \$100,000, suspension of repayment of loans for up to a year, and delay of minimum required distributions. The Plan has adopted these provisions.

**UMB PROFIT SHARING AND 401(k) SAVINGS PLAN**

**EIN: 43-0903811 PLAN NUMBER: 001  
SCHEDULE OF ASSETS (HELD AT END OF YEAR)  
DECEMBER 31, 2019**

(a)	(b)	(c)	(d)	(e)
<b>Identity of Issue, Borrower, Lessor or Similar Party</b>		<b>Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value</b>	<b>Cost**</b>	<b>Current Value</b>
*	Participant Loans	Promissory notes, interest rates from 2.75% to 9.00%; maturity dates through August 2039		\$ 8,254,369
				<u>\$ 8,254,369</u>

\* Represents party-in-interest to the Plan.

\*\* Cost not required for participant directed investments.

The above information is required for disclosure for Form 5500, Schedule H, Part IV, line 4i.

**SIGNATURE**

*The Plan.* Pursuant to the requirements of the Securities Exchange Act of 1934, the trustees (or other persons who administer the employee benefit plan) have duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

UMB Profit Sharing and 401(k) Savings Plan

Date: June 19, 2020

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/s/ Shannon A. Johnson  
Shannon A. Johnson  
Executive Vice President &  
Chief Administrative Officer

## EXHIBIT INDEX

Exhibit No.	Description
23	<a href="#">Consent of Independent Registered Public Accounting Firm</a>

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## Section 2: EX-23 (EX-23)

**Exhibit 23**

### **Consent Of Independent Registered Public Accounting Firm**

We hereby consent to the incorporation by reference in the Registration Statement on Form S-8 (No. 333-65807) of UMB Financial Corporation of our report dated June 19, 2020, with respect to the statement of net assets available for benefits of the UMB Profit Sharing and 401(k) Savings Plan as of December 31, 2019 and 2018, the related statement of changes in net assets available for benefits for the years ended December 31, 2019 and 2018 and the related notes, and the supplemental schedule of Schedule H, line 4i - Schedule of Assets (Held at End of Year) as of December 31, 2019, which report appears in the December 31, 2019 annual report on Form 11-K of the UMB Profit Sharing and 401(k) Savings Plan.  
/s/ RubinBrown LLP

Kansas City, Missouri  
June 19, 2020

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