

Tutor Perini

C O R P O R A T I O N

2018 ANNUAL REPORT



I-74 Mississippi River Bridge, Bettendorf, IA - Moline, IL

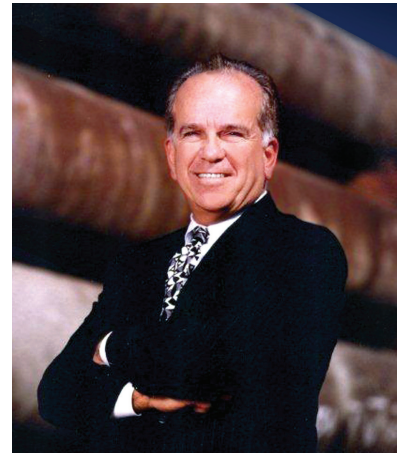
Dear Shareholders,

Tutor Perini experienced a good year in 2018. As a result of solid project execution, we delivered operating income that increased 7% over the prior year and which reflected our highest annual operating margin since 2014. We accomplished this despite a modest revenue decline caused by certain project delays and timing differences between the completion and ramp-up of certain projects. In addition, we were successful in winning various projects that added \$6.5 billion of new awards during the year and resulted in a new record backlog of \$9.3 billion, an increase of 28% compared to the prior year. More than three-quarters of this backlog is comprised of higher-margin civil and specialty projects, a fact that supports our ability to deliver even higher operating margins over the coming years.

Our largest new awards in 2018 included the \$1.4 billion Newark Airport Terminal One project, the \$800 million Minneapolis Southwest Light Rail Transit project, the \$410 million Purple Line Section 3 Tunnels project in Los Angeles, \$311 million of additional funding for a technology building project in northern California, a \$220 million government office building project in Sacramento, a \$121 million water tunnel project in Los Angeles and a \$100 million military facility project in Saudi Arabia.

In addition to our record backlog, we concluded 2018 with more than \$2.5 billion of pending awards, most of which have already been added to backlog in the first quarter of 2019. So, we are already off to a great start in 2019 with strong new award bookings, including the \$1.4 billion Purple Line Section 3 Stations project in Los Angeles, the \$253 million Culver Line Communications-Based Train Control project in New York and the Choctaw Casino and Resort Expansion project in Oklahoma. Consequently, we anticipate that our first quarter 2019 ending backlog will be at another all-time record and we expect 2019 to be another year of backlog growth. Furthermore, we expect that 2019 will be a year of strong, double-digit revenue growth with improved profitability and more substantial operating cash generation.

I am proud of our continued success in winning and executing projects. Fortunately, the strong market demand enables us to be more selective in our project pursuits. Our preference is to bid and execute the largest, most complex projects, as we have a favorable track record of excellent performance and few companies can match our capabilities, experience and financial strength to compete for such projects. The high level of bidding activity we have witnessed over the past two years appears to be accelerating, especially for what



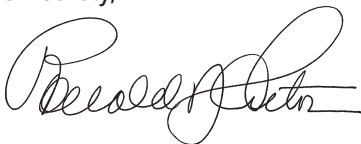
California High-Speed Rail, Central CA

are increasingly larger civil projects, as state and local customers benefiting from new funding sources increase the pace of project bidding activities. Consequently, demand for our services is expected to increase even further over the next several years. As I have previously indicated, much of the civil and specialty work we have been bidding and winning over the past two years has been at notably higher margins compared to projects awarded previously.

As we progress in 2019 and beyond, our focus will continue to be on three things: 1) growing our business profitably through excellence in project execution, 2) winning our share of increasingly larger projects amid what we believe will be a multi-year period of expanding bidding opportunities, and 3) generating improved operating cash as some of our newer large projects accelerate, as well as by resolving various claims and unapproved change orders to collect the substantial cash amounts we are owed. Importantly, we maintain our goal that annual cash flow from operating activities should exceed net income, and this target is linked directly to our executive compensation.

I wish to thank our employees for their commitment to the Company. Without such commitment and a relentless focus on continuous improvement, we would not deliver the industry leading performance for which we are renowned and respected. I also wish to thank our shareholders and our various business partners for your support of Tutor Perini. We look forward to delivering many successful years ahead.

Sincerely,



Ronald N. Tutor
Chairman and Chief Executive Officer



CIVIL SEGMENT



California High-Speed Rail, Central CA

REPRESENTATIVE PROJECTS

- \$3.2B Purple Line Extension Sections 2 and 3, Los Angeles, CA
- \$2.8B East Side Access (multiple projects), New York, NY
- \$1.5B SR 99 Tunnel (Alaskan Way Viaduct Replacement), Seattle, WA
- \$1.5B California High-Speed Rail Project, Central CA
- \$895M Eastern Rail Yard Platform & Amtrak Tunnel, Hudson Yards, New York, NY
- \$835M Third Street Light Rail - Central Subway, San Francisco, CA
- \$800M Minneapolis Southwest Light Rail Transit, Minneapolis, MN
- \$330M I-74 Mississippi River Bridge, Bettendorf, IA - Moline, IL
- \$265M Kemano T2 Project, Kemano, BC
- \$110M I-64/I-264 Interchange Improvements, Richmond, VA

Our Civil segment specializes in public works construction and the replacement and reconstruction of infrastructure across the nation. Our civil contracting services include construction and rehabilitation of highways, bridges, tunnels, mass-transit systems, and water management and wastewater treatment facilities.

The legacy of **Tutor Perini Civil** construction operations dates back to 1894, with the founding of Perini Corporation in Framingham, Massachusetts and further strengthened by the merger with Tutor-Saliba Corporation in 2008. Our ability to complete complex transportation and heavy civil construction projects within budget, on schedule, and with quality and integrity makes us a preferred choice on large, sophisticated infrastructure projects.

The Civil segment is enhanced by subsidiary companies that bring multiple capabilities and geographic reach to Tutor Perini's offerings:

Lunda Construction performs construction of highways, bridges, railroads and other civil structures throughout the midwestern United States. **Frontier-Kemper** builds tunnels for highways, railroads, subways and rapid transit systems, as well as shafts and other facilities for water supply, wastewater transport and hydroelectric projects. Through FKC-Lake Shore, we develop and equip mines with innovative hoisting, elevator and vertical conveyance systems. **Becho** provides drilling, foundation and excavation services for shoring, bridges, piers, tunnels, roads and highway projects across the United States. **Black Construction Corporation** is one of the largest and most experienced construction companies in the Western Pacific, with projects encompassing civil, mechanical, electrical, structural, architectural and multi-disciplined engineering.

In *Engineering News-Record's* 2018 rankings, we were the nation's second largest contractor in the transportation market, third largest domestic heavy contractor and 10th largest contractor overall.

Our Civil segment continues to experience strong demand reflected in a large and growing pipeline of prospective projects and substantial anticipated funding associated with various recently enacted transportation measures, including California's \$52 billion, 10-year transportation program and Los Angeles County's Measure M, which is expected to provide \$120 billion over 40 years.



BUILDING SEGMENT



REPRESENTATIVE PROJECTS

- \$1.5B 10 Hudson Yards, 15 Hudson Yards, Maintenance of Equipment Building, New York, NY
- \$1.4B Newark Airport Terminal One, Newark, NJ
- \$1.0B Technology Office Facility, Northern CA
- \$565M Technology Office Facility, Northern CA
- \$340M Pechanga Resort & Casino Expansion, Temecula, CA
- \$250M El Camino Hospital Integrated Medical Office Building, El Camino, CA
- \$220M Department of Government Services O Street Office Building, Sacramento, CA
- \$175M Rosewood Miramar Beach, Montecito, CA
- \$165M University of California San Francisco Medical Center, Precision Cancer Medical Building, Mission Bay, CA
- \$150M Kaiser Permanente Roseville Riverside-Cirby Medical Office Building, Roseville, CA

Our Building segment provides services to specialized building markets for private and public works customers, including the hospitality and gaming, high-rise residential, transportation, health care, corporate and municipal offices, sports and entertainment, education, correctional, pharmaceutical, industrial and high-tech markets.

The success of the Building segment results from our proven ability to manage and perform large, complex projects with aggressive fast-track schedules, elaborate designs and advanced mechanical, electrical and life safety systems, while providing accurate budgeting and strict quality control. Although price is a key competitive factor, we believe our strong reputation, long-standing customer relationships and significant level of repeat and referral business have enabled us to achieve our leading position.

The Building segment is comprised of four subsidiary companies that provide general contracting, design-build, preconstruction and construction services in various regions of the United States. **Tutor Perini Building Corp.** focuses on large building projects nationwide, including significant projects in the hospitality and gaming, commercial office, education, government facilities and multi-unit residential markets. **Rudolph and Sletten** focuses on projects in California in the health care, commercial office, technology, industrial, education and government facilities markets. **Roy Anderson Corp.** provides building construction services, including rapid response for natural disasters, to public and private customers primarily throughout the southeastern United States. **Perini Management Services** provides diversified construction and design-build services to U.S. military and government agencies, as well as to surety companies and multi-national corporations in the United States and locations overseas. We believe that our national resources and strong résumé of notable projects will position us to win new work and support our future growth given the continuing demand for large building projects.

In its 2018 rankings, *Engineering News-Record* ranked us as the 11th largest domestic building contractor. We are a recognized leader in the hospitality and gaming market, specializing in the construction of high-end resorts and casinos. We work with hotel operators, Native American tribal councils, developers and architectural firms to provide diversified construction services to meet the challenges of new construction and renovation of hotel and resort properties. We believe that our reputation for completing projects on time is a significant competitive advantage, as any delay in project completion could result in significant loss of revenue for the customer.



SPECIALTY CONTRACTORS SEGMENT



SR 99 Tunnel, Seattle, WA

REPRESENTATIVE PROJECTS

- \$880M East Side Access (multiple projects) electrical, mechanical and pneumatically placed concrete subcontracts, New York, NY
- \$455M Hudson Yards (multiple projects) electrical, mechanical and pneumatically placed concrete subcontracts, New York, NY
- \$365M Newark Airport Terminal One electrical and mechanical subcontracts, Newark, NJ
- \$270M Subway Signal System Modernization electrical prime contract, New York, NY
- \$240M NYC Housing Authority, Sandy Recovery Program Restoration, Baruch Houses & Jacob Riis Houses prime contract, New York, NY
- \$235M Transbay Transit Center electrical and mechanical subcontracts, San Francisco, CA
- \$215M SR 99 Tunnel electrical, mechanical and pneumatically placed concrete subcontracts, Seattle, WA
- \$180M Purple Line Section 2 Extension electrical and mechanical subcontracts, Los Angeles, CA
- \$100M NYC Housing Authority Pelham Parkway Houses & Sotomayor Houses Boiler Replacements prime contract, New York, NY
- \$70M City University of New York Baruch College Field Building Renovation prime contract, New York, NY

Our Specialty Contractors segment specializes in electrical; plumbing; heating, ventilation and air conditioning (HVAC); fire protection systems and pneumatically placed concrete for a full range of civil and building construction projects in the industrial, commercial, hospitality and gaming, transportation and mass-transit end markets. Our Specialty Contractors segment is comprised of several subsidiary companies that collectively provide the Company with unique strengths and capabilities to position us as a full-service contractor with greater control over scheduled work, project delivery, and cost and risk management.

Five Star Electric is the largest electrical contractor in New York City providing construction services including power, lighting, fire alarm, security, telecommunications, low voltage and wireless systems. **Fisk Electric** covers many markets in the western and southern United States, with the ability to cover other attractive markets nationwide. Fisk's expertise is in technology design and the development of electrical and technology systems. Both of these electrical contractors are industry leaders performing work in both the public and private sectors, including mass-transit projects, commercial office buildings, residential towers, sports facilities, hospitals, research laboratories, hotels and casinos, convention centers, schools and universities, manufacturing plants, refineries, and water and wastewater treatment facilities.

Our mechanical contractors provide plumbing, HVAC and fire protection services to a range of customers in a wide variety of markets, including transportation, industrial, commercial, residential, hospitality and gaming, health care, education, sports and entertainment. **WDF** serves the New York City metropolitan region, **Nagelbush** operates primarily in Florida and **Desert Mechanical** operates across the western United States.

Superior Gunite specializes in pneumatically placed structural concrete utilized in infrastructure projects nationwide.

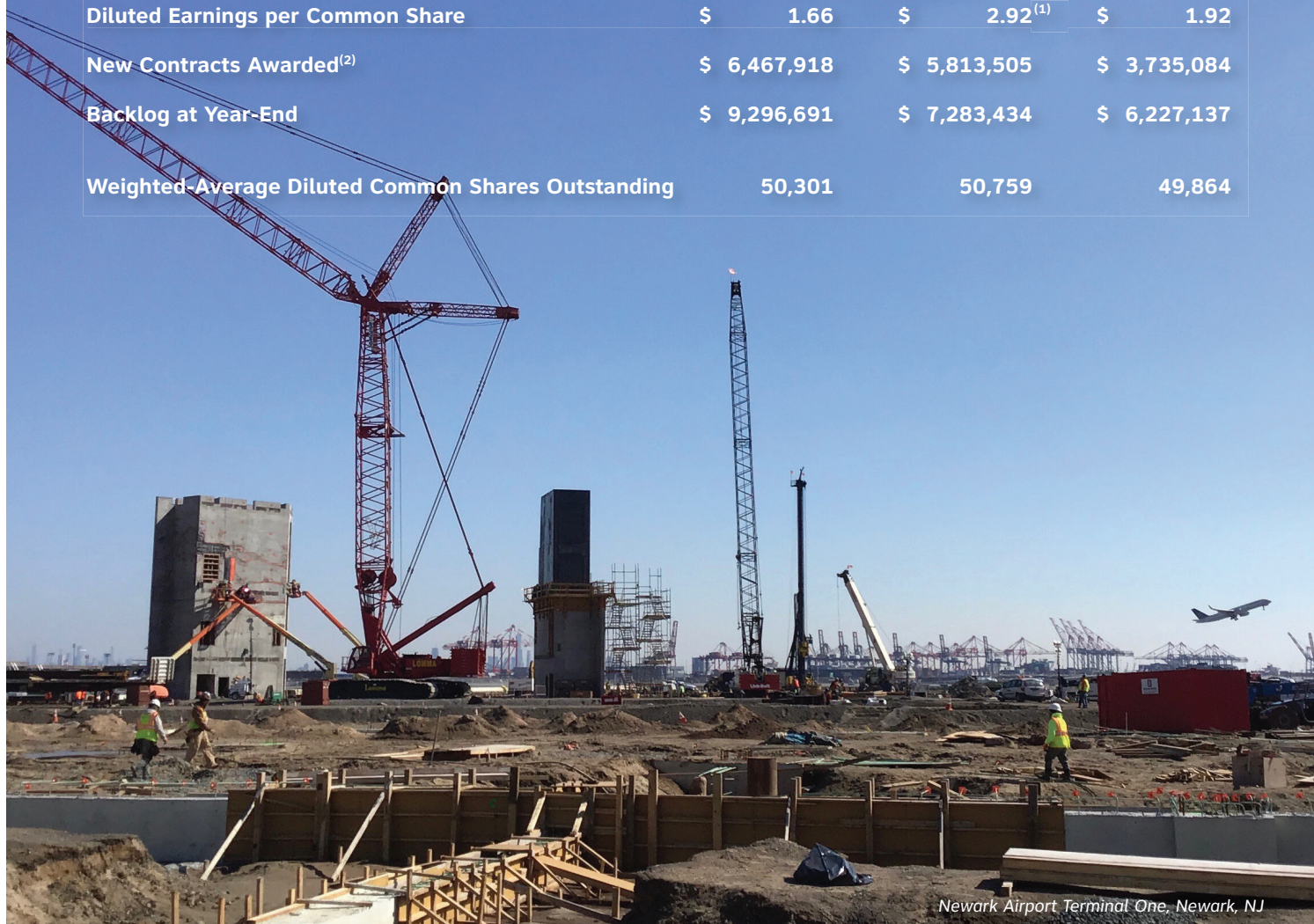
In its 2018 rankings, *Engineering News-Record* ranked us as the fifth largest electrical contractor,* 14th largest mechanical contractor* and 14th largest specialty contractor* in the United States. Through Five Star Electric and WDF collectively, we are also the largest specialty contractor in the New York City metropolitan area.

*This ranking represents the collective revenue of the Company's specialty contracting subsidiaries as reported to *ENR*.



FINANCIAL HIGHLIGHTS

(in thousands, except per share data)	2018	2017	2016
Revenue	\$ 4,454,662	\$ 4,757,208	\$ 4,973,076
Operating Income (Income from Construction Operations)	\$ 191,876	\$ 179,477	\$ 201,920
Pre-Tax Income	\$ 132,613	\$ 153,975	\$ 149,115
Net Income Attributable to Tutor Perini Corporation	\$ 83,436	\$ 148,382 ⁽¹⁾	\$ 95,822
Diluted Earnings per Common Share	\$ 1.66	\$ 2.92 ⁽¹⁾	\$ 1.92
New Contracts Awarded ⁽²⁾	\$ 6,467,918	\$ 5,813,505	\$ 3,735,084
Backlog at Year-End	\$ 9,296,691	\$ 7,283,434	\$ 6,227,137
Weighted-Average Diluted Common Shares Outstanding	50,301	50,759	49,864



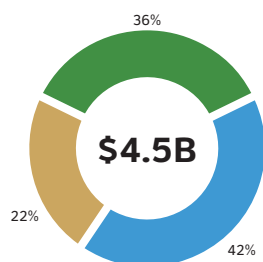
Newark Airport Terminal One, Newark, NJ

(1) Net income for 2017 included a tax benefit of \$53.3 million, or \$1.05 per diluted share, which primarily resulted from the remeasurement of the Company's net deferred tax liabilities due to the enactment of the Tax Cuts and Jobs Act of 2017. Net income for 2017 was also favorably impacted by a gain of \$37 million, or \$0.43 per diluted share, on a legal settlement that was recorded in other income.

(2) Includes adjustments to contract value for existing contracts.

REVENUE

(dollars in millions)

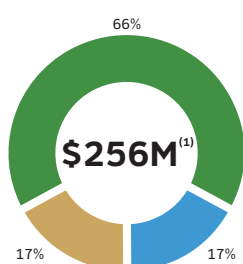


2018

Civil	\$ 1,586.1
Building	1,861.7
Specialty Contractors	1,006.9
Total	\$ 4,454.7

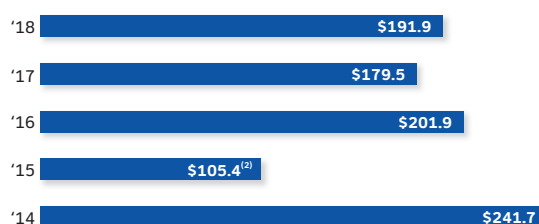


OPERATING INCOME

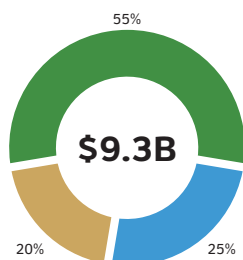


2018

Civil	\$ 168.3
Building	43.9
Specialty Contractors	43.4
Total	\$ 255.6⁽¹⁾

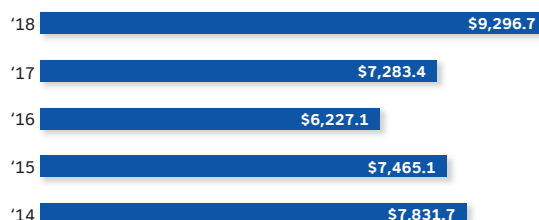


BACKLOG

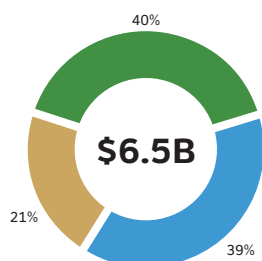


2018

Civil	\$ 5,141.9
Building	2,333.1
Specialty Contractors	1,821.7
Total	\$ 9,296.7

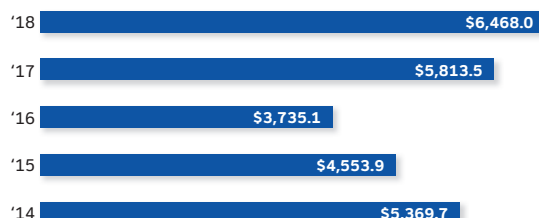


NEW AWARDS



2018

Civil	\$ 2,609.8
Building	2,493.4
Specialty Contractors	1,364.8
Total	\$ 6,468.0



(1) Excludes the impact of \$63.7 million of corporate general and administrative expenses.

(2) Operating income for 2015 included the impact of a non-cash, pre-tax charge of \$23.9 million for an adverse appellate court decision related to a long-standing litigation matter for which the Company, as part of an acquisition in 2011, assumed liability as a minority partner in a joint venture for a project that had already been completed.

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2018
FORM 10-K

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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, DC 20549

FORM 10-K

- Annual Report Pursuant to Section 13 or 15(d) of the Securities Act of 1934.**
For the fiscal year ended December 31, 2018.
- Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934.**
For the transition period from -to-

Commission File No. 1-6314

Tutor Perini Corporation

(Exact name of registrant as specified in its charter)

Massachusetts
(State of Incorporation)

04-1717070
(IRS Employer Identification No.)

15901 Olden Street, Sylmar, California
(Address of principal executive offices)

91342
(Zip Code)

(818) 362-8391
(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class	Name of each exchange on which registered
Common Stock, \$1.00 par value	The New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: **None**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§ 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See definition of "accelerated filer," "large accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer
Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

The aggregate market value of voting Common Stock held by non-affiliates of the registrant was \$725,059,982 as of June 29, 2018, the last business day of the registrant's most recently completed second fiscal quarter.

The number of shares of Common Stock, \$1.00 par value per share, outstanding at February 21, 2019 was 50,103,445.

Documents Incorporated by Reference

The information required by Part III of this Annual Report on Form 10-K, to the extent not set forth herein, is incorporated herein by reference to the registrant's definitive proxy statement relating to the Annual Meeting of Shareholders to be held in 2019, which definitive proxy statement shall be filed with the Securities and Exchange Commission within 120 days after the end of the fiscal year to which this Annual Report on Form 10-K relates.

TUTOR PERINI CORPORATION
2018 ANNUAL REPORT ON FORM 10-K

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PART I

Forward-Looking Statements

The statements contained in this Annual Report on Form 10-K that are not purely historical are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 (the “Securities Act”) and Section 21E of the Securities Exchange Act of 1934 (the “Exchange Act”), including without limitation, statements regarding our management’s expectations, hopes, beliefs, intentions or strategies regarding the future and statements regarding future guidance or estimates and non-historical performance. These forward-looking statements are based on our current expectations and beliefs concerning future developments and their potential effects on us. Our expectations, beliefs and projections are expressed in good faith, and we believe there is a reasonable basis for them. There can be no assurance that future developments affecting us will be those that we have anticipated. These forward-looking statements involve a number of risks, uncertainties (some of which are beyond our control) or other assumptions that may cause actual results or performance to be materially different from those expressed or implied by such forward-looking statements. These risks and uncertainties are listed and discussed in Item 1A. *Risk Factors*, below. We undertake no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as may be required under applicable securities laws.

ITEM 1. BUSINESS

General

Tutor Perini Corporation, formerly known as Perini Corporation, was incorporated in 1918 as a successor to businesses that had been engaged in providing construction services since 1894. Tutor Perini Corporation (together with its consolidated subsidiaries, “Tutor Perini,” the “Company,” “we,” “us,” and “our,” unless the context indicates otherwise) is a leading construction company, based on revenue as ranked by *Engineering News-Record* (“ENR”), offering diversified general contracting, construction management and design-build services to private customers and public agencies throughout the world. Our corporate headquarters are in Los Angeles (Sylmar), California, and we have various other principal offices throughout the United States and its territories (see Item 2. *Properties* for a listing of our major facilities). Our common stock is listed on the New York Stock Exchange under the symbol “TPC.” We are incorporated in the Commonwealth of Massachusetts.

We have established a strong reputation within our markets for executing large, complex projects on time and within budget while adhering to strict quality control measures. We offer general contracting, pre-construction planning and comprehensive project management services, including the planning and scheduling of the manpower, equipment, materials and subcontractors required for a project. We also offer self-performed construction services including site work; concrete forming and placement; steel erection; electrical, mechanical, plumbing, heating, ventilation and air conditioning (HVAC), and fire protection. During 2018, we performed work on approximately 1,400 construction projects.

In 2018, *ENR* ranked Tutor Perini as the tenth largest domestic contractor. We are recognized as one of the leading civil contractors in the United States, as evidenced by our performance on several of the country’s largest mass-transit and transportation projects, such as Newark Liberty International Airport Terminal One (“Newark Airport Terminal One”), the East Side Access project in New York City, the California High-Speed Rail System, the Alaskan Way Viaduct Replacement (SR 99) project in Seattle, major portions of the Red Line and Purple Line segments of the Los Angeles subway system, and the San Francisco Central Subway extension to Chinatown. We are also recognized as one of the leading building contractors in the United States, as evidenced by our performance on several of the country’s largest building development projects, including CityCenter and the Cosmopolitan Resort and Casino in Las Vegas and Hudson Yards in New York City.

Since the 2008 merger between our predecessor companies, Tutor-Saliba Corporation (“Tutor-Saliba”) and Perini Corporation, we have experienced significant growth supported by our increased size, scale, bonding capacity, access to broader geographic regions, expanded management capabilities, complementary assets and particular expertise in large, complex projects. In 2010 and 2011, we expanded vertically and geographically through the strategic acquisitions of seven companies with demonstrated success in their respective markets. These acquisitions further strengthened our geographic presence in our Building and Civil segments and also significantly increased our specialty contracting capabilities.

Our acquisitions have enabled us to provide customers with a vertically integrated service offering. This vertical integration is a unique capability and competitive advantage that allows us to self-perform a greater amount of work than our competitors. Our vertical integration increases our competitiveness in bidding and our efficiency in managing and executing large, complex projects. It also provides us with significant cross-selling opportunities across a broad geographic footprint.

Business Segment Overview

Our business is conducted through three segments: Civil, Building and Specialty Contractors.

Civil Segment

Our Civil segment specializes in public works construction and the replacement and reconstruction of infrastructure across most of the major geographic regions of the United States. Our civil contracting services include construction and rehabilitation of highways, bridges, tunnels, mass-transit systems, and water management and wastewater treatment facilities.

The Civil segment is comprised of the Company's legacy heavy civil construction operations (civil operations of our predecessors, Tutor-Saliba, its subsidiary Black Construction, and Perini Corporation), as well as our acquired companies, Frontier-Kemper, Lunda Construction and Becho. The Company's legacy heavy civil units operate primarily on the West and East Coasts of the United States and are engaged in a variety of large mass-transit, transportation, bridge and highway projects. Frontier-Kemper is a heavy civil contractor engaged in the construction of tunnels for highways, railroads, subways and rapid transit systems; the construction of shafts and other facilities for water supply, wastewater transport and hydroelectric projects; and the development and equipping of mines with innovative hoisting, elevator and vertical conveyance systems. Lunda Construction is a heavy civil contractor specializing in the construction, rehabilitation and maintenance of bridges, railroads and other civil structures throughout the United States. Becho is engaged in drilling, foundation and excavation support for shoring, bridges, piers, roads and highway projects, primarily in the southwestern United States. We believe that the Company has benefitted from these acquisitions by an expanded geographic presence, enhanced civil construction capabilities and the addition of experienced management with proven, successful track records.

Our Civil segment's customers primarily award contracts through one of two methods: the traditional public "competitive bid" method, in which price is the major determining factor, or through a request for proposal, where contracts are awarded based on a combination of technical qualifications, proposed project team, schedule, past performance on similar projects and price.

Traditionally, our Civil segment's customers require each contractor to pre-qualify for construction business by meeting criteria that include technical capabilities and financial strength. Our financial strength and outstanding record of performance on challenging civil works projects often enable us to pre-qualify for projects in situations where smaller, less diversified contractors are unable to meet the qualification requirements. We believe this is a competitive advantage that makes us an attractive partner on the largest, most complex infrastructure projects and on prestigious design-build, DBOM (design-build-operate-maintain) and P3 (public-private partnership) projects.

In its 2018 rankings, *ENR* ranked us as the nation's second largest contractor in the transportation market and third largest domestic heavy contractor.

We believe the Civil segment provides us with significant opportunities for growth due to the age and condition of existing infrastructure coupled with large government funding sources dedicated to the replacement and reconstruction of aging U.S. infrastructure. In addition, infrastructure improvement programs frequently enjoy popular, bipartisan support from the public and elected officials. Funding for major civil infrastructure projects is typically provided through a combination of one or more of the following: local, regional, state and federal loans and grants; other direct allocations sourced through tax revenue; bonds; user fees; and, for certain projects, private capital.

We have been active in civil construction since 1894 and believe we have a particular expertise in large, complex civil construction projects. We have completed, or are currently working on, some of the most significant civil construction projects in the United States. For example, we are currently working on Newark Airport Terminal One, various portions of the East Side Access project in New York City, the first phase of the California High-Speed Rail project, the Purple Line Segments 2 and 3 expansion projects in Los Angeles, and the San Francisco Central Subway extension to Chinatown. We have also completed major projects such as the Alaskan Way Viaduct Replacement (SR 99) in Seattle; the platform over the eastern rail yard at Hudson Yards in New York City; the rehabilitation of the Verrazano-Narrows Bridge in New York; and multiple runway reconstruction projects, including the John F. Kennedy International Airport in New York, Los Angeles International Airport, and Fort Lauderdale-Hollywood International Airport.

Building Segment

Our Building segment has significant experience providing services to a number of specialized building markets for private and public works customers, including hospitality and gaming, transportation, health care, commercial offices, government facilities, sports and entertainment, education, correctional facilities, biotech, pharmaceutical, industrial and high-tech. We believe the success of the Building segment results from our proven ability to manage and perform large, complex projects with aggressive fast-track schedules, elaborate designs, and advanced mechanical, electrical and life safety systems, while providing accurate budgeting and strict quality control. Although price is a key competitive factor, we believe our strong reputation, long-standing customer relationships and significant level of repeat and referral business have enabled us to achieve a leading position in the marketplace.

In its 2018 rankings, *ENR* ranked us as the 11th largest domestic building contractor. We are a recognized leader in the hospitality and gaming market, specializing in the construction of high-end resorts and casinos. We work with hotel operators, Native American tribal councils, developers and architectural firms to provide diversified construction services to meet the challenges of new construction and renovation of hotel and resort properties. We believe that our reputation for completing projects on time is a significant competitive advantage in this market, as any delay in project completion could result in significant loss of revenue for the customer.

The Building segment is comprised of several operating units that provide general contracting, design-build, preconstruction and construction services in various regions of the United States. Tutor Perini Building Corp. focuses on large, complex building projects nationwide, including significant projects in the hospitality and gaming, commercial office, education, government facilities, and multi-unit residential markets. Rudolph and Sletten focuses on large, complex projects in California in the health care, commercial office, technology, industrial, education, and government facilities markets. Roy Anderson Corp. provides general contracting services, including major disaster response support, to public and private customers primarily throughout the southeastern United States. Perini Management Services provides diversified construction and design-build services internationally to U.S. government agencies, as well as to surety companies and multi-national corporations.

We have recently completed, or are currently working on, large private and public building projects across a wide array of building end markets, including commercial offices, multi-unit residential, health care, hospitality and gaming, transportation, education and entertainment. Specific projects include Newark Airport Terminal One in Newark, New Jersey; two large corporate office buildings in northern California for different confidential technology customers; a commercial office tower at 10 Hudson Yards and a multi-unit residential tower at 15 Hudson Yards in New York City; the Washington Hospital expansion in Fremont, California; the Graton Rancheria Resort and Casino in Rohnert Park, California; the Pechanga Resort and Casino expansion in Temecula, California; the Maryland Live! Casino expansion in Hanover, Maryland; Kaiser Hospital Buildings in San Leandro and Redwood City, California; and courthouses in San Bernardino and San Diego, California and Broward County, Florida. As a result of our reputation and track record, we were previously awarded and completed contracts for several marquee projects in the hospitality and gaming market, including the Resorts World New York Casino in Jamaica, New York, as well as CityCenter, the Cosmopolitan Resort and Casino, the Wynn Encore Hotel, Trump International Hotel and Tower, Paris Las Vegas and Planet Hollywood in Las Vegas. These projects span a wide array of building end markets and illustrate our Building segment's résumé of successfully completed large-scale public and private projects.

Specialty Contractors Segment

Our Specialty Contractors segment specializes in electrical, mechanical, plumbing, HVAC, fire protection systems and pneumatically placed concrete for a full range of civil and building construction projects in the industrial, commercial, hospitality and gaming, and mass-transit end markets. This segment provides unique strengths and capabilities that position us as a full-service contractor with greater control over project bids and costs, scheduled work, project delivery and risk management. The majority of work performed by the Specialty Contractors segment is contracted directly with state and local municipal agencies, real estate developers, school districts and other commercial and industrial customers. A growing portion of its work is expected to be performed for our Civil and Building segments in future years.

The Specialty Contractors segment is comprised of several operating units that provide unique services in various regions of the United States. Five Star Electric has established itself as an industry leader and is one of the largest electrical contractors in New York City. Five Star Electric provides construction services in the electrical sector, including power, lighting, fire alarm, security, telecommunications, low voltage and wireless systems to both the public and private sectors. These services are provided across end markets that include multi-unit residential, hotels, commercial offices, industrial, mass transit, education, retail, sports and entertainment, health care and water treatment. Fisk Electric ("Fisk") covers many of the major commercial, transportation and industrial electrical construction markets in California and the southern United States, with the ability to cover other attractive markets nationwide. Fisk's expertise is in technology design and the development of electrical and technology systems for major projects spanning a broad variety of project types, including commercial office buildings, sports arenas, hospitals, research laboratories, hotels and casinos, convention centers, manufacturing plants, refineries, and water and wastewater treatment facilities. WDF, Nagelbush and Desert Mechanical each provide mechanical, plumbing, HVAC and fire protection services to a range of customers in a wide variety of markets, including transportation, commercial/industrial, schools and universities and residential. WDF is one of the largest mechanical contractors servicing the New York City metropolitan region. Nagelbush operates primarily in Florida and Desert Mechanical operates primarily in the western United States. Superior Gunite specializes in pneumatically placed structural concrete utilized in infrastructure projects nationwide, such as bridges, dams, tunnels and retaining walls.

In its 2018 rankings, *ENR* ranked us as the fifth largest electrical contractor¹, 14th largest mechanical contractor¹ and 14th largest specialty contractor¹ in the United States. Through Five Star Electric and WDF, collectively, we are also the largest specialty contractor in the New York City metropolitan area.

¹ This ranking represents the collective revenue of the Company's specialty contracting subsidiaries as reported to *ENR*.

Our Specialty Contractors business units have completed, or are currently working on, various portions of the East Side Access project in New York City, various projects at the World Trade Center and at Hudson Yards in New York City, and electrical work for the new hospital at the University of Texas Southwestern Medical Center in Dallas. The Specialty Contractors segment has also supported, or is currently supporting, several large projects in our Civil and Building segments, including the Alaskan Way Viaduct Replacement (SR 99) project in Seattle; the San Francisco Central Subway extension to Chinatown; the Purple Line Segment 2 expansion project in Los Angeles; Newark Airport Terminal One in Newark, New Jersey; McCarran International Airport Terminal 3 in Las Vegas; and several marquee projects in the hospitality and gaming market, including CityCenter, the Cosmopolitan Resort and Casino, and the Wynn Encore Hotel in Las Vegas.

Backlog

Backlog in our industry is a measure of the total value of work that is remaining to be performed on projects that have been awarded. We include a construction project in our backlog when a contract is awarded or when we have otherwise received written definitive notice that the project has been awarded to us and there are no remaining major uncertainties that the project will proceed (e.g., adequate funding is in place). As a result, we believe our backlog is firm, and although cancellations or scope adjustments may occur, historically they have not been material. We estimate that approximately \$4 billion, or 45%, of our backlog as of December 31, 2018 will be recognized as revenue in 2019. Our backlog by segment, end market and customer type is presented in the following tables:

(in thousands)	As of December 31,			
	2018		2017	
Backlog by business segment:				
Civil	\$ 5,141,863	55 %	\$ 4,118,243	57 %
Building	2,333,127	25 %	1,701,378	23 %
Specialty Contractors	1,821,701	20 %	1,463,813	20 %
Total backlog	\$ 9,296,691	100 %	\$ 7,283,434	100 %

(in thousands)	As of December 31,			
	2018		2017	
Civil segment backlog by end market:				
Mass transit	\$ 3,710,354	72 %	\$ 2,565,066	63 %
Bridges	513,839	10 %	617,084	15 %
Highways	348,589	7 %	471,706	11 %
Tunneling	168,113	3 %	266,727	6 %
Other	400,968	8 %	197,660	5 %
Total Civil segment backlog	\$ 5,141,863	100 %	\$ 4,118,243	100 %

(in thousands)	As of December 31,			
	2018		2017	
Building segment backlog by end market:				
Mass transit	\$ 678,371	29 %	\$ 5,923	— %
Commercial and industrial facilities	518,880	22 %	353,387	21 %
Municipal and government	499,288	21 %	332,073	20 %
Health care facilities	280,354	12 %	377,768	22 %
Education facilities	177,402	8 %	105,585	6 %
Mixed use	61,746	3 %	162,291	10 %
Hospitality and gaming	26,866	1 %	229,220	13 %
Other	90,220	4 %	135,131	8 %
Total Building segment backlog	\$ 2,333,127	100 %	\$ 1,701,378	100 %

(in thousands)	As of December 31,			
	2018		2017	
Specialty Contractors segment backlog by end market:				
Mass transit	\$ 1,132,158	62 %	\$ 780,457	53 %
Multi-unit residential	278,602	15 %	85,339	6 %
Commercial and industrial facilities	100,163	6 %	127,964	9 %
Education facilities	95,360	5 %	96,533	7 %
Mixed use	60,159	3 %	128,669	9 %
Transportation	44,178	2 %	68,990	5 %
Health care facilities	25,296	1 %	66,537	5 %
Other	85,785	6 %	109,324	6 %
Total Specialty Contractors segment backlog	\$ 1,821,701	100 %	\$ 1,463,813	100 %

	As of December 31,	
	2018	2017
Backlog by customer type:		
State and local agencies	72 %	66 %
Federal agencies	8 %	8 %
Private owners	20 %	26 %
Total backlog	100 %	100 %

Fixed price contracts are expected to continue to represent a sizeable percentage of total backlog. Fixed price contracts as a percentage of total backlog grew in 2018 compared to 2017. The composition of backlog by type of contract for 2018 and 2017 is as follows:

	As of December 31,	
	2018	2017
Backlog by contract type:		
Fixed price	80 %	67 %
Guaranteed maximum price	5 %	12 %
Unit price	8 %	13 %
Cost plus fee and other	7 %	8 %
Total backlog	100 %	100 %

For additional information on customer types and contract types, see Note 3 of the Notes to Consolidated Financial Statements.

Competition

While the construction markets include numerous competitors, especially for small to mid-sized projects, much of the work that we target is for larger, more complex projects where there are typically fewer active market participants due to the greater capabilities and resources required to perform the work. In addition to domestic competitors, we have seen certain foreign competitors attempting to grow their presence in the United States over the past several years, particularly through the pursuit of large civil projects. More recently, however, the number of these foreign competitors appears to be diminishing for many of the larger U.S. projects. We believe price, experience, reputation, responsiveness, customer relationships, project completion track record, schedule control, risk management and quality of work are key factors customers consider when awarding contracts.

In our Civil segment, we compete principally with large civil construction firms, including (alphabetically) Dragados USA; Fluor Corporation; Granite Construction; Kiewit Corporation; Skanska USA; Traylor Bros., Inc.; and The Walsh Group. In our Building segment, we compete with a variety of national and regional contractors, including (alphabetically) AECOM (through its acquisitions of Tishman Construction and Hunt Construction Group); Balfour Beatty Construction; Clark Construction Group; DPR Construction; Gilbane, Inc.; Hensel Phelps Construction Co.; McCarthy Building Companies, Inc.; Skanska USA; Suffolk Construction; and Turner Construction Company. In our Specialty Contractors segment, we compete principally with various regional and local electrical, mechanical and plumbing subcontractors.

Construction Costs

If prices for materials, labor or equipment increase excessively, provisions in certain types of contracts often shift all or a major portion of any adverse impact to the customer. In our fixed price contracts, we attempt to insulate ourselves from the unfavorable effects of inflation, when possible, by incorporating escalating wage and price assumptions into our construction cost estimates, by

obtaining firm fixed price quotes from major subcontractors and material suppliers, and by entering into purchase commitments for materials early in the project schedule. Construction and other materials used in our construction activities are generally available locally from multiple sources and have been in adequate supply during recent years. Labor resources for our domestic projects are largely obtained through various labor unions. We have not experienced significant labor shortages in recent years, nor do we expect to in the near future, although a significant, rapid growth in our backlog may lead to situations in which labor resources become constrained. We employ expatriate and local labor in selected overseas areas.

Environmental Matters

Our properties and operations are subject to federal, state and municipal laws and regulations relating to the protection of the environment, including requirements for water discharges; air emissions; the use, management and disposal of solid or hazardous materials or wastes; and the cleanup of contamination. In certain circumstances, we may also be required to hire subcontractors to dispose of hazardous materials encountered on a project in accordance with a plan approved in advance by the owner. We continually evaluate our compliance with all applicable environmental laws and regulations, and believe that we are in substantial compliance with those laws and regulations. However, future requirements or amendments to current laws or regulations imposing more stringent requirements could require us to incur additional costs to maintain or achieve compliance.

In addition, some environmental laws, such as the U.S. federal "Superfund" law and similar state statutes, can impose liability for the entire cost of cleanup of contaminated sites upon any of the current or former owners or operators or upon parties who generated waste at, or sent waste to, these sites, regardless of who owned the site at the time of the release or the lawfulness of the original disposal activity. Contaminants have been detected at some of the sites that we own and where we have worked as a contractor in the past, and we have incurred costs for the investigation and remediation of hazardous substances. We believe that our liabilities for these sites are not material, either individually or in the aggregate. We have pollution liability insurance coverage for such matters, and if applicable, we seek indemnification from customers to cover the risks associated with environmental remediation.

Insurance and Bonding

All of our properties and equipment, as well as those of our joint ventures, are covered by insurance in amounts that we believe are consistent with our risk of loss and industry practice. Our wholly owned subsidiary, PCR Insurance Company, issues policies for default insurance for our subcontractors, auto liability, general liability and workers' compensation insurance, allowing us to centralize our claims and risk management functions to reduce our insurance-related costs.

As a normal part of the construction business, we are often required to provide various types of surety bonds as an additional level of security for our performance. We also require many of our higher-risk subcontractors to provide surety bonds as security for payment of subcontractors and suppliers and to guarantee their performance. As an alternative to traditional surety bonds, we also have purchased subcontractor default insurance for certain construction projects to insure against the risk of subcontractor default.

Employees

The number of our employees varies based on the number of active projects, the type and magnitude of those projects, as well as our position within the lifecycle of those projects. Our total number of employees as of December 31, 2018 was approximately 8,200.

We are signatory to numerous local and regional collective bargaining agreements, both directly and through trade associations, as a union contractor. These agreements cover all necessary union crafts and are subject to various renewal dates. Estimated amounts for wage escalation related to the expiration of union contracts are included in our bids on various projects; accordingly, the expiration of any union contract in the next year is not expected to have any material impact on us. During the past several years, we have not experienced any significant work stoppages caused by our union employees.

Financial information about geographic areas is discussed in Note 14 to the Consolidated Financial Statements under the heading "Geographic Information."

Available Information

Our investor website address is <http://investors.tutorperini.com>. In the "Financial Reports" portion of our investor website, under the subsection "SEC Filings," you may obtain free electronic copies of our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy statements, and all amendments to those reports, as well as reports under Section 16 of the Exchange Act of transactions in our stock by our directors and executive officers. These reports are made available on our website as soon as reasonably practicable after we electronically file them with the Securities and Exchange Commission ("SEC"). These reports, and any amendments to them, are also available at the Internet website of the SEC, www.sec.gov. We also maintain various documents, including our Code of Business Conduct and Ethics, Corporate Governance Guidelines and the charters of the Committees of our Board of Directors in the "Corporate Governance" portion of our investor website.

ITEM 1A. RISK FACTORS

We are subject to a number of known and unknown risks and uncertainties that could have a material adverse effect on our operations. Set forth below, and elsewhere in this report, are descriptions of the risks and uncertainties that could cause our actual results to differ materially from the results contemplated by the forward-looking statements contained in this report and could have a material adverse effect on our financial condition, results of operations and cash flows.

If we are unable to accurately estimate contract risks, revenue or costs, the timing of new awards, or the pace of project execution, we may incur a loss or achieve lower than anticipated profit.

Accounting for contract-related revenue and costs requires management to make significant estimates and assumptions that may change significantly throughout the project lifecycle, which could result in a material impact to our consolidated financial statements. In addition, cost overruns, including unanticipated cost increases on fixed price and guaranteed maximum price contracts, may result in lower profits or losses. Changes in laws, policies or regulations, including tariffs and taxes, could impact the prices for materials or equipment. Further, our results of operations can fluctuate quarterly and annually depending on when new awards occur and the commencement and progress of work on projects already awarded.

We are subject to significant legal proceedings which, if determined adversely to us, could harm our reputation, preclude us from bidding on future projects and/or have a material effect on us. We also may invest significant working capital on projects while legal proceedings are being settled.

We are involved in various lawsuits, including the legal proceedings described under Note 8 of the Notes to Consolidated Financial Statements. Litigation is inherently uncertain, and it is not possible to accurately predict what the final outcome will be of any legal proceeding. We must make certain assumptions and rely on estimates, which are inherently subject to risks and uncertainties, regarding potential outcomes of legal proceedings in order to determine an appropriate contingent liability and charge to income. Any result that is materially different than our estimates could have a material adverse effect on our financial condition, results of operations and cash flows. In addition, any adverse judgments could harm our reputation and preclude us from bidding on future projects.

We may bring claims against project owners for additional cost exceeding the contract price or for amounts not included in the original contract price. When these types of events occur and unresolved claims are pending, we may invest significant working capital in projects to cover cost overruns pending the resolution of the relevant claims. A failure to promptly recover on these types of claims could have a material effect on our liquidity and financial results.

Our contracts require us to perform extra, or change order, work which can result in disputes or claims and adversely affect our working capital, profits and cash flows.

Our contracts generally require us to perform extra, or change order, work as directed by the customer even if the customer has not agreed in advance on the scope and/or price of the work to be performed. This process may result in disputes or claims over whether the work performed is beyond the scope of work directed by the customer and/or exceeds the price the customer is willing to pay for the work performed. To the extent we do not recover our costs for this work or there are delays in the recovery of these costs, our working capital, profits and cash flows could be adversely impacted.

Our actual results could differ from the assumptions and estimates used to prepare our financial statements.

In preparing our financial statements, we are required under generally accepted accounting principles in the United States (“GAAP”) to make estimates and assumptions as of the date of the financial statements. These estimates and assumptions affect the reported values of assets, liabilities, revenue and expenses, and the disclosure of contingent assets and liabilities. Areas requiring significant estimates by our management include, but are not limited to:

- recognition of contract revenue, costs, profits or losses in applying the principles of revenue accounting;
- recognition of revenue related to project incentives or awards we expect to receive;
- recognition of recoveries under contract change orders or claims;
- estimated amounts for expected project losses, warranty costs, contract closeout or other costs;
- collectability of billed and unbilled accounts receivable;
- asset valuations;
- income tax provisions and related valuation allowances;
- determination of expense and potential liabilities under pension and other post-retirement benefit programs; and
- accruals for other estimated liabilities, including litigation and insurance revenue/reserves.

Our actual business and financial results could differ from our estimates of such results, which could have a material negative impact on our financial condition and reported results of operations.

A significant slowdown or decline in economic conditions could adversely affect our operations.

Any significant decline in economic conditions in any of the markets we serve or uncertainty regarding the economic outlook, could result in a decline in demand for infrastructure projects and commercial building developments. In addition, any instability in the financial and credit markets could negatively impact our customers' ability to pay us on a timely basis, or at all, for work on projects already under construction, could cause our customers to delay or cancel construction projects in our backlog or could create difficulties for customers to obtain adequate financing to fund new construction projects. Such consequences could have an adverse impact on our future operating results. Lastly, we are more susceptible to adverse economic conditions in New York and California, as a significant portion of our operations are concentrated in those states.

We may not fully realize the revenue value reported in our backlog due to cancellations or reductions in scope.

As of December 31, 2018, our backlog of uncompleted construction work was approximately \$9.3 billion. The revenue projected in our backlog may not be fully realized and, in some cases, if realized, may not result in profits or may be less profitable than expected. The cancellation or reduction in scope of significant projects included in our backlog could have a material adverse effect on our financial condition, results of operations and cash flows.

Competition for new project awards is intense, and our failure to compete effectively could reduce our market share and profits.

New project awards are determined through either a competitive bid basis or on a negotiated basis. Projects may be awarded based solely upon price, but often take into account other factors, such as technical qualifications, proposed project team, schedule and past performance on similar projects. Within our industry, we compete with many international, regional and local construction firms. Some of these competitors have achieved greater market penetration than we have in the markets in which we compete, and some have greater resources than we do. If we are unable to compete successfully in such markets, our relative market share and profits could be reduced.

The construction services industry is highly schedule driven, and our failure to meet the schedule requirements of our contracts could adversely affect our reputation and/or expose us to financial liability.

Many of our contracts are subject to specific completion schedule requirements. Any failure to meet contractual schedule requirements could subject us to liquidated damages, liability for our customer's actual cost arising out of our delay and damage to our reputation.

In connection with mergers and acquisitions, we have recorded goodwill and other intangible assets that could become impaired and adversely affect our operating results. Assessing whether impairment has occurred requires us to make significant judgments and assumptions about the future, which are inherently subject to risks and uncertainties, and if actual events turn out to be materially less favorable than the judgments we make and the assumptions we use, we may be required to record impairment charges in the future.

We had \$635.4 million of goodwill and indefinite-lived intangible assets recorded on our Consolidated Balance Sheet as of December 31, 2018. We assess these assets for impairment annually, or more often if required. Our assessments involve a number of estimates and assumptions that are inherently subjective, require significant judgment and involve highly uncertain matters that are subject to change. The use of different assumptions or estimates could materially affect the determination as to whether or not an impairment has occurred. In addition, if future events are less favorable than what we assumed or estimated in our impairment analysis, we may be required to record an impairment charge, which could have a material impact on our consolidated financial statements.

We require substantial personnel, including construction and project managers and specialty subcontractor resources to execute and perform our contracts in backlog. The successful execution of our business strategies is also dependent upon our ability to attract and retain our key officers, as well as adequately plan for their succession.

Our ability to execute and perform on our contracts in backlog depends in large part upon our ability to hire and retain highly skilled personnel, including project and construction management and trade labor resources, such as carpenters, masons and other skilled workers. In the event we are unable to attract, hire and retain the requisite personnel and subcontractors necessary to execute and perform our backlog, we may experience delays in completing projects in accordance with project schedules or an increase in expected costs, both of which could have a material adverse effect on our financial results, our reputation and our relationships. In addition, if we lack the personnel and specialty subcontractors necessary to perform on our current contract backlog, we may find it necessary to curtail our pursuit of new projects. A significant, rapid growth in our backlog may lead to situations in which labor resources become constrained.

The execution of our business strategies also substantially depends on our ability to retain several key members of our management. Losing any of these individuals could adversely affect our business. The majority of these key individuals are not bound by employment agreements. Volatility or lack of positive performance in our stock price may adversely affect our ability to retain key individuals to whom we have provided share-based compensation. Additionally, because a substantial portion of our key officers' compensation is placed "at risk" and linked to the performance of our business, when our operating results are negatively impacted, we are at greater risk of employee turnover. If we lose our key officers and do not have qualified successors in place, our operating results would likely be harmed.

We have a substantial amount of indebtedness which could adversely affect our financial position and prevent us from fulfilling our obligations under our debt agreements.

We currently have, and expect to continue to have, a substantial amount of indebtedness. As of December 31, 2018, we had total debt of \$761.5 million. If we are unable to meet the terms of the financial covenants or fail to comply with any of the other restrictions contained in the agreements governing our indebtedness, an event of default could occur, causing the debt related to such agreements to become immediately due. If such acceleration occurs, we may not be able to repay such indebtedness as required. Since indebtedness under our 2017 Credit Facility is secured by substantially all of our assets, acceleration of this debt could result in foreclosure of those assets and a negative impact on our operations. In addition, a failure to meet the terms of our 2017 Credit Facility could result in a reduction of future borrowing capacity under the 2017 Credit Facility, causing a loss of liquidity. A loss of liquidity could adversely impact our ability to execute projects in our backlog, obtain new projects, engage subcontractors, and attract and retain key employees.

The level of federal, state and local government spending for infrastructure and other public projects could adversely affect the number of projects available to us in the future.

The civil construction and public-works building markets are dependent on the amount of work funded by various government agencies, which depends on many factors, including the condition of the existing infrastructure and buildings; the need for new or expanded infrastructure and buildings; and federal, state and local government spending levels. As a result, our future operating results could be negatively impacted by any decrease in demand for public projects or decrease or delay in government funding, which could result from a variety of factors, including extended government shutdowns, delays in the sale of voter-approved bonds, budget shortfalls, credit rating downgrades or long-term impairment in the ability of state and local governments to raise capital in the municipal bond market.

Our participation in construction joint ventures exposes us to liability and/or harm to our reputation for failures by our partners.

As part of our business, we enter into joint venture arrangements typically to jointly bid on and execute particular projects, thereby reducing our risk profile while enhancing the execution capability and financial reward of project teams. Success on these joint projects depends in large part on whether our joint venture partners satisfy their contractual obligations. Generally, we and our joint venture partners are jointly and severally liable for all liabilities and obligations of our joint ventures. If a joint venture partner fails to perform or is financially unable to bear its portion of required capital contributions or other obligations, including liabilities stemming from lawsuits, we could be required to make additional investments, provide additional services or pay more than our proportionate share of a liability to make up for our partner's shortfall. Further, if we are unable to adequately address our partner's performance issues, the customer may terminate the project, which could result in legal liability to us, harm our reputation, reduce our profit on a project or, in some cases, result in a loss.

Systems and information technology interruption and breaches in data security could adversely impact our ability to operate and negatively impact our operating results.

We rely on computer, information and communication technology and other related systems, some of which are hosted by third party providers, for various business processes and activities, including project management, accounting, financial reporting and business development. These systems may be subject to interruptions or damage by a variety of factors including, but not limited to, cyber-attacks, natural disasters, power loss, telecommunications failures, acts of war, computer viruses, obsolescence and physical damage. Such interruptions could result in a loss of critical data, a delay in operations or an unintentional disclosure of client confidential or personally identifiable information, any of which could have a material impact to us and our consolidated financial statements.

In addition, various privacy and security laws require us to protect sensitive and confidential information from disclosure. We dedicate considerable attention and resources to the safeguarding of our information technology systems. Our systems may, nevertheless, continue to be at risk for cyber-attacks. Consequently, we may need to engage significant resources in the future to remediate the impact of, or further mitigate the risk of, such an attack. Any successful cyber-attack could result in the criminal, or otherwise

illegitimate use of, confidential data, including our data or third-party data for which we have the responsibility for safekeeping. Additionally, such an attack could adversely affect our operations, reputation and financial results.

Weather can significantly affect our revenue and profitability.

Inclement weather conditions, such as significant storms and unusual temperatures, can impact our ability to perform work. Adverse weather conditions can cause delays and increases in project costs, resulting in variability in our revenue and profitability.

We are subject to a number of risks as a U.S. government contractor, which could harm our reputation, result in fines or penalties against us and/or adversely impact our financial condition.

Failure to comply with laws and regulations related to government contracts could result in contract termination, suspension or debarment from contracting with the U.S. government, civil fines and criminal prosecution, any of which could adversely affect our operations, reputation and financial results.

Conversion of our outstanding Convertible Notes could dilute ownership interests of existing stockholders and could adversely affect the market price of our common stock.

Based on the terms of the indenture for our 2.875% Convertible Senior Notes due June 15, 2021 (the “Convertible Notes”), we may redeem the Convertible Notes in cash, shares of our common stock or a combination of the two. As a result, a conversion of some or all of the Convertible Notes may dilute the ownership interests of existing stockholders. Any sales in the public market of our common stock issuable upon such conversion of the Convertible Notes could cause the price of our common stock to decline. In addition, the existence of the Convertible Notes may encourage short selling by market participants because a conversion of the Convertible Notes could depress the price of our common stock.

We may need to include the potential dilutive impact of our Convertible Notes in our diluted earnings per share calculation.

We currently intend to pay the principal amount of our Convertible Notes in cash; therefore, we have not included the potential dilutive effect of our Convertible Notes in our diluted earnings per share calculations. If, however, there is a change in future circumstances as a result of a decline in our projected cash flow, available cash/liquidity or other reasons, we may conclude at such time that it will be preferable to use shares to satisfy the Convertible Notes. Such a change in our intentions would result in the inclusion of the potential dilutive impact of the Convertible Notes in our diluted earnings per share calculation, which would result in a decrease in our diluted earnings per share.

Our international operations expose us to economic, political and other risks, as well as uncertainty related to U.S. Government funding, which could adversely affect our revenue and earnings. In addition, we could be adversely affected by violations of the U.S. Foreign Corrupt Practices Act and similar worldwide anti-bribery laws.

For the year ended December 31, 2018, we derived \$274.5 million of revenue from our work on projects located outside of the United States. Our international operations expose us to risks inherent in doing business in certain hostile regions outside the United States, including political risks; risks of loss due to acts of war; unstable economic, financial and market conditions; potential incompatibility with foreign subcontractors and vendors; foreign currency controls and fluctuations; trade restrictions; logistical challenges; variations in taxes; and changes in labor conditions, labor strikes and difficulties in staffing and managing international operations. Failure to successfully manage risks associated with our international operations could result in higher operating costs than anticipated or could delay or limit our ability to generate revenue and income from construction operations in key international markets.

The U.S. federal government has approved various spending bills for the construction of defense- and diplomacy-related projects and has allocated significant funds to the defense of U.S. interests around the world from the threat of terrorism. The federal government has also approved funds for development in conjunction with the relocation of military personnel into Guam. However, federal government funding levels for construction projects in the Middle East have decreased significantly over the past several years as the U.S. government has reduced the number of military troops and support personnel in the region. As a result, we have seen a decrease in the number and size of federal government projects available to us in this region. Any decrease in U.S. federal government funding for projects in Guam or in other U.S. Territories or countries in which we are pursuing work may result in project delays or cancellations, which could reduce our revenue and earnings.

Finally, the U.S. Foreign Corrupt Practices Act, the U.K. Bribery Act of 2010, and similar anti-bribery laws in other jurisdictions generally prohibit companies and their intermediaries from making improper payments for the purpose of obtaining or retaining business. While our policies mandate compliance with these anti-bribery laws, there is no assurance that our policies and procedures will protect us from circumstances or actions that could result in possible criminal penalties or other sanctions, including contract cancellations or debarment and loss of reputation, any of which could have a material adverse impact on our business, financial condition, and results of operations.

Our chairman and chief executive officer could exert influence over the Company due to his position and significant ownership interest.

As of December 31, 2018, our chairman and chief executive officer, Ronald N. Tutor, and three trusts controlled by Mr. Tutor (the “Tutor Group”) owned approximately 17% of the outstanding shares of our common stock. Additionally, one of our current directors was appointed by Mr. Tutor pursuant to his right to nominate one member to our Board of Directors, so long as the Tutor Group owns at least 11.25% of the outstanding shares of our common stock. Accordingly, Mr. Tutor could exert influence over the outcome of a range of corporate matters, including the election of directors and the approval or rejection of other extraordinary transactions, such as a takeover attempt or sale of the Company or its assets.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

We have office facilities and equipment yards in the following locations, which we believe are suitable and adequate for our current needs:

Offices	Owned or Leased by Tutor Perini	Business Segment(s)
Los Angeles (Sylmar), CA	Leased	Corporate, Civil & Specialty Contractors
Barrigada, Guam	Owned	Civil
Black River Falls, WI	Owned	Civil
Evansville, IN	Owned	Civil
Fort Lauderdale, FL	Leased	Building & Specialty Contractors
Framingham, MA	Owned	Building
Gulfport, MS	Owned	Building
Henderson, NV	Owned	Building & Specialty Contractors
Houston, TX	Owned	Specialty Contractors
Jessup, MD	Owned	Civil
Lakeview Terrace, CA	Leased	Specialty Contractors
Mount Vernon, NY	Leased	Specialty Contractors
New Rochelle, NY	Owned	Civil
Ozone Park, NY	Leased	Specialty Contractors
Philadelphia, PA	Leased	Building
San Carlos, CA	Leased	Building

Equipment Yards	Owned or Leased by Tutor Perini	Business Segment(s)
Black River Falls, WI	Owned	Civil
Evansville, IN	Owned	Civil
Fontana, CA	Leased	Civil
Jessup, MD	Owned	Civil
Lakeview Terrace, CA	Leased	Specialty Contractors
Peekskill, NY	Owned	Civil
San Leandro, CA	Leased	Specialty Contractors
Stockton, CA	Owned	Building

ITEM 3. LEGAL PROCEEDINGS

Legal Proceedings are set forth in Note 8 of the Notes to Consolidated Financial Statements and are incorporated herein by reference.

ITEM 4. MINE SAFETY DISCLOSURES

We do not own or operate any mines; however, we may be considered a mine operator under the Federal Mine Safety and Health Act of 1977 because we provide construction services to customers in the mining industry. Accordingly, we provide information regarding mine safety violations and other mining regulation matters in Exhibit 95 to this Form 10-K.

PART II.

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Market Information

Our common stock is traded on the New York Stock Exchange under the symbol "TPC."

Holdings

At February 21, 2019, there were 381 holders of record of our common stock, including holders of record on behalf of an indeterminate number of beneficial owners.

Dividends and Issuer Purchases of Equity Securities

We did not repurchase any of our common stock during the fourth quarter of 2018. We have not historically paid dividends on our common stock and have no immediate plans to do so.

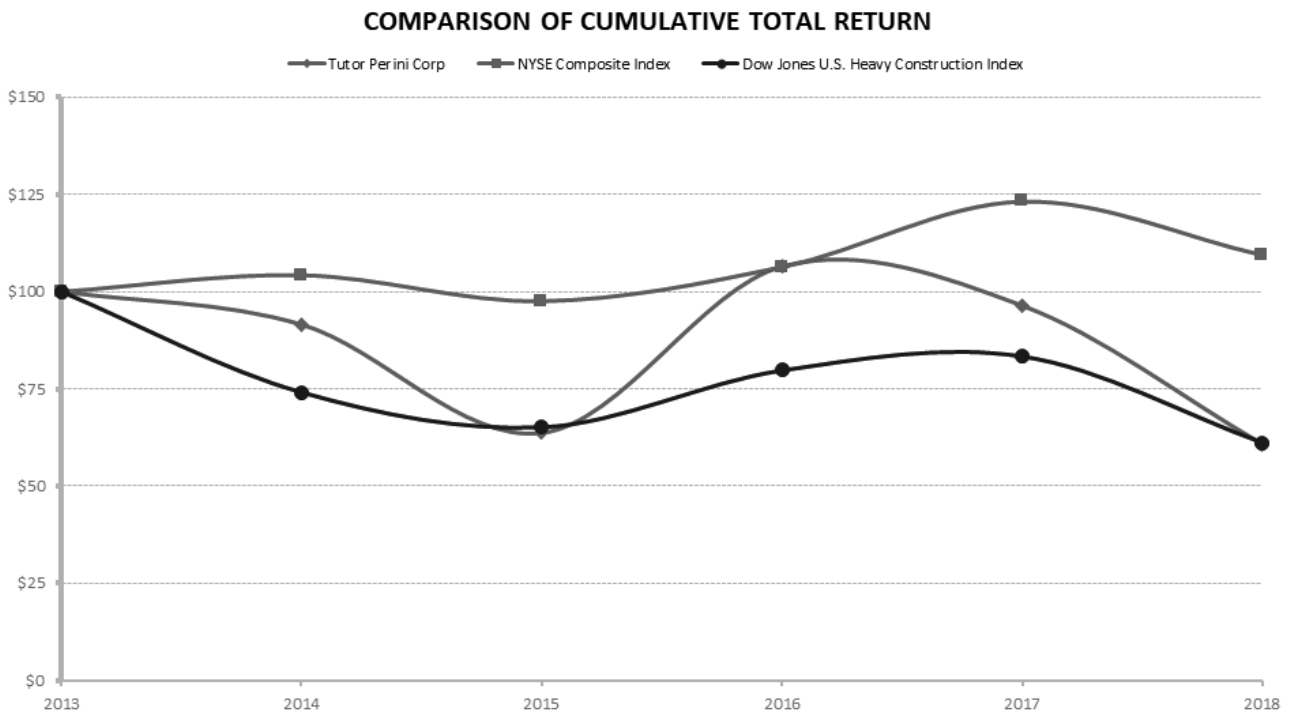
Issuance of Unregistered Securities

None.

Performance Graph

The following graph compares the cumulative five-year total return to shareholders on our common stock relative to the cumulative total returns of the NYSE Composite Index and the Dow Jones U.S. Heavy Construction Index. We selected the Dow Jones U.S. Heavy Construction Index because we believe the index reflects the market conditions within the industry in which we primarily operate. The comparison of total return on investment, defined as the change in year-end stock price plus reinvested dividends, for each of the periods assumes that \$100 was invested on December 31, 2013 in each of our common stock, the NYSE Composite Index and the Dow Jones U.S. Heavy Construction Index, with investment weighted on the basis of market capitalization.

The comparisons in the following graph are based on historical data and are not intended to forecast the possible future performance of our common stock.



ITEM 6. SELECTED FINANCIAL DATA

Selected Consolidated Financial Information

The following tables present selected financial data for the last five years. This selected financial data should be read in conjunction with Item 7. *Management's Discussion and Analysis of Financial Condition and Results of Operations*, Item 15. *Exhibits and Financial Statement Schedules*, and the other information included elsewhere in this Annual Report.

CONSOLIDATED OPERATING RESULTS (In thousands, except per common share data)	Year Ended December 31,				
	2018	2017	2016	2015	2014
Revenue:					
Civil	\$ 1,586,093	\$ 1,602,175	\$ 1,668,963	\$ 1,889,907	\$ 1,687,144
Building	1,861,699	1,941,325	2,069,841	1,802,535	1,503,837
Specialty Contractors	1,006,870	1,213,708	1,234,272	1,228,030	1,301,328
Total	4,454,662	4,757,208	4,973,076	4,920,472	4,492,309
Cost of operations	(4,000,209)	(4,302,803)	(4,515,886)	(4,564,219)	(3,986,867)
Gross profit	454,453	454,405	457,190	356,253	505,442
General and administrative expenses	(262,577)	(274,928)	(255,270)	(250,840)	(263,752)
Income from construction operations ^(a)	191,876	179,477	201,920	105,413	241,690
Other income (expense), net ^(b)	4,256	43,882	6,977	13,569	(8,217)
Interest expense	(63,519)	(69,384)	(59,782)	(45,143)	(46,035)
Income before income taxes	132,613	153,975	149,115	73,839	187,438
Income tax (expense) benefit ^(c)	(34,832)	569	(53,293)	(28,547)	(79,502)
Net income	97,781	154,544	95,822	45,292	107,936
Less: Net income attributable to noncontrolling interests	14,345	6,162	—	—	—
Net income attributable to Tutor Perini Corporation	\$ 83,436	\$ 148,382	\$ 95,822	\$ 45,292	\$ 107,936
Earnings per common share: ^{(a)(b)(c)}					
Basic	\$ 1.67	\$ 2.99	\$ 1.95	\$ 0.92	\$ 2.22
Diluted	\$ 1.66	\$ 2.92	\$ 1.92	\$ 0.91	\$ 2.20
Weighted-average common shares outstanding:					
Basic	49,952	49,647	49,150	48,981	48,562
Diluted	50,301	50,759	49,864	49,666	49,114

- (a) During the year ended December 31, 2018, the Company recorded a charge of \$17.8 million in income from construction operations (\$0.25 per diluted share), which was primarily non-cash, as a result of the unexpected adverse outcome of an arbitration decision related to a subcontract back charge dispute on a Civil segment project in New York that was completed in 2013.

During the year ended December 31, 2015, the Company recorded unfavorable adjustments totaling \$45.6 million to income from construction operations (\$0.53 per diluted share) for various Five Star Electric projects in the Specialty Contractors segment. In addition, that same year there was a decrease of \$24.3 million in income from construction operations (\$0.28 per diluted share) due to unfavorable adjustments to the estimated cost to complete a Building segment project in New York. The Company's 2015 results were also impacted by an unfavorable adjustment for an adverse legal decision related to a long-standing litigation matter in the Civil segment, which resulted in a decrease of \$23.9 million in income from construction operations (\$0.28 per diluted share). Furthermore, the Company recorded favorable adjustments for a Civil segment runway reconstruction project, which resulted in an increase of \$13.7 million in income from construction operations (\$0.16 per diluted share) in 2015.

The Company's results for the year ended December 31, 2014 included a positive impact related to changes in the estimated recoveries for two Civil segment projects and a Building segment hospitality and gaming project. With respect to the two Civil segment projects, there was an increase of \$25.9 million in income from construction operations (\$0.30 per diluted share) and a \$9.4 million decrease in income from construction operations (\$0.11 per diluted share). The Building project change in estimate resulted in an \$11.4 million increase in income from construction operations (\$0.14 per diluted share).

- (b) On June 6, 2017, the Company received \$37.0 million (\$0.43 per diluted share) in a cash settlement with Merrill Lynch, Pierce, Fenner & Smith Incorporated ("Merrill Lynch"), as successor in interest to Banc of America Securities LLC and Bank of America, N.A. (collectively "BofA"). The settlement pertained to litigation, which was filed by the Company in 2011, and related to the purchase by the Company of certain auction-rate securities from BofA. The Company recognized the settlement as a gain during the second quarter of 2017. For additional information, see Note 9 of the Notes to Consolidated Financial Statements.

- (c) In December 2017, the Tax Cuts and Jobs Act of 2017 (“TCJA”) was enacted reducing the U.S. corporate income tax rate from 35% to 21%, effective in 2018. As a result, tax expense in 2018 was positively impacted and in 2017 the Company recognized a favorable tax adjustment of \$53.3 million (\$1.05 per diluted share) primarily due to a one-time revaluation of its deferred tax assets and liabilities in connection with the adoption of the TCJA. For a further discussion of the effect of the TCJA, see Note 5 of the Notes to Consolidated Financial Statements.

(In thousands, except ratios and percentages)	As of and For the Year Ended December 31,				
	2018	2017	2016	2015	2014
CONSOLIDATED FINANCIAL POSITION					
Current assets	\$ 3,175,643	\$ 3,074,392	\$ 2,837,756	\$ 2,608,939	\$ 2,454,594
Current liabilities	1,597,966	1,581,846	1,518,943	1,448,819	1,344,447
Working capital	\$ 1,577,677	\$ 1,492,546	\$ 1,318,813	\$ 1,160,120	\$ 1,110,147
Current ratio	1.99	1.94	1.87	1.80	1.83
Property and equipment, net of accumulated depreciation	\$ 490,669	\$ 467,499	\$ 477,626	\$ 523,525	\$ 527,602
Total assets	4,387,752	4,264,123	4,038,620	3,861,300	3,711,450
Capitalization:					
Total debt	761,504	736,276	759,519	817,684	857,791
Stockholders' equity	1,809,177	1,713,275	1,553,023	1,420,227	1,365,505
Total capitalization	\$ 2,570,681	\$ 2,449,551	\$ 2,312,542	\$ 2,237,911	\$ 2,223,296
Total debt as a percentage of total capitalization	30 %	30 %	33 %	37 %	39 %
Ratio of debt to equity	0.42	0.43	0.49	0.58	0.63
Stockholders' equity per common share	\$ 36.16	\$ 34.42	\$ 31.56	\$ 28.94	\$ 28.06
OTHER DATA					
Backlog at year end	\$ 9,296,691	\$ 7,283,434	\$ 6,227,137	\$ 7,465,129	\$ 7,831,725
New awards	6,467,918	5,813,505	3,735,084	4,553,877	5,369,747
Capital expenditures	77,069	30,280	15,743	35,912	75,829
Net cash provided by (used in) operating activities	21,402	163,550	113,336	14,072	(56,678)
Net cash used in investing activities ^(a)	(70,208)	(87,133)	(13,844)	(30,932)	(25,181)
Net cash provided by (used in) financing activities	(28,979)	(75,376)	(24,190)	(41,788)	99,295

- (a) Prior years were adjusted retrospectively to exclude changes in restricted cash from investing activities in accordance with Accounting Standards Update 2016-18, *Statement of Cash Flows*, as discussed in Note 1 of the Notes to Consolidated Financial Statements.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our Consolidated Financial Statements and the accompanying Notes to Consolidated Financial Statements included in Item 15. *Exhibits and Financial Statement Schedules* in this Annual Report. This discussion contains forward-looking statements, which involve risks and uncertainties. For cautions about relying on such forward-looking statements, please refer to the section entitled “Forward-Looking Statements” at the beginning of this Annual Report immediately prior to Item 1. Our actual results could differ materially from those anticipated in the forward-looking statements as a result of certain factors, including, but not limited to, those discussed in Item 1A. *Risk Factors* and elsewhere in this Annual Report.

Executive Overview

Consolidated revenue for 2018 was \$4.5 billion compared to \$4.8 billion for 2017. The decrease was primarily driven by a mix of Building segment projects in California, including a large technology project that completed in the second quarter of 2018, and various electrical projects in New York within the Specialty Contractors segment, as revenue generated from project execution activities for certain new projects starting up did not fully offset reduced revenue from projects that have completed or are nearing completion.

Consolidated revenue for 2017 was \$4.8 billion compared to \$5.0 billion for 2016. The slight reduction was primarily due to decreased volume in our Building and Civil segments attributed to various projects that were completed or nearing completion. The decrease was partially offset by higher volume on certain Civil segment projects in California and New York, as well as certain Building segment projects in California and Maryland. In addition, revenue in 2017 was negatively impacted by the timing of certain Building and Civil projects that were in ramp-up stages.

Despite the volume reduction, income from construction operations increased 7% in 2018 to \$191.9 million compared to \$179.5 million in 2017. The increase was primarily due to unfavorable adjustments that occurred in 2017 on certain mechanical projects in New York (\$13.1 million in the aggregate, none of which were individually material) and California (which were not material individually or in the aggregate), as well as general and administrative expense savings in 2018 largely related to lower compensation costs. The increase was partially offset by a pre-tax charge in the first quarter of 2018 totaling \$17.8 million, which was attributable to the unexpected adverse outcome of an arbitration decision on a completed Civil segment project in New York.

Income from construction operations for 2017 was \$179.5 million compared to \$201.9 million for 2016. The decrease was driven by the unfavorable adjustments in 2017 related to certain mechanical projects mentioned in the preceding paragraph, the lower volume in 2017 relative to 2016 and higher compensation-related general and administrative expenses in 2017. The decrease was partially offset by work performed on certain higher margin Civil and Building projects.

The effective tax rate was 26.3%, (0.4)% and 35.7% for 2018, 2017 and 2016, respectively. The effective tax rates for 2018 and 2017 were favorably impacted by the enactment of the TCJA, which was signed into law on December 22, 2017. For a further discussion of the effect of the TCJA, see Note 5 of the Notes to Consolidated Financial Statements.

Earnings per diluted share was \$1.66, \$2.92 and \$1.92 in 2018, 2017 and 2016, respectively. The decreased earnings in 2018 were primarily attributable to the \$17.8 million charge mentioned above. The higher earnings in 2017 compared to 2016 were primarily due to the above-mentioned tax benefit of \$53.3 million (\$1.05 per diluted share), as well as the 2017 gain on a \$37.0 million (\$0.43 per diluted share) legal settlement mentioned above (also see Note 9 of the Notes to Consolidated Financial Statements).

Consolidated new awards in 2018 were \$6.5 billion compared to \$5.8 billion in 2017 and \$3.7 billion in 2016. The Civil and Building segments were the predominant contributors of new awards during 2018 and 2016. The Civil segment was the major contributor of new awards during 2017.

Consolidated backlog was \$9.3 billion, \$7.3 billion and \$6.2 billion as of December 31, 2018, 2017 and 2016, respectively. The Company experienced backlog growth of 28% in 2018, driven by various large awards in the Civil and Building segments. As of December 31, 2018, the mix of backlog by segment was 55% for Civil, 25% for Building and 20% for Specialty Contractors. The Company experienced backlog growth of 17% in 2017, driven by various awards in the Civil segment.

Most projects in the Civil segment's backlog typically convert to revenue over a period of three to five years and in the Building and Specialty Contractors segments over a period of one to three years. We estimate that approximately \$4 billion, or 45%, of our backlog as of December 31, 2018 will be recognized as revenue in 2019.

The following table presents the changes in backlog in 2018:

(in millions)	Backlog at December 31, 2017	New Awards in 2018 ^(a)	Revenue Recognized in 2018	Backlog at December 31, in 2018 ^(b)
Civil	\$ 4,118.2	\$ 2,609.8	\$ (1,586.1)	\$ 5,141.9
Building	1,701.4	2,493.4	(1,861.7)	2,333.1
Specialty Contractors	1,463.8	1,364.8	(1,006.9)	1,821.7
Total	\$ 7,283.4	\$ 6,468.0	\$ (4,454.7)	\$ 9,296.7

(a) New awards consist of the original contract price of projects added to our backlog plus or minus subsequent changes to the estimated total contract price of existing contracts.

(b) Backlog may differ from the transaction prices allocated to the remaining performance obligations as disclosed in Note 3 of the Notes to the Consolidated Financial Statements. Such differences relate to the timing of executing a formal contract or receiving a notice to proceed. More specifically, backlog sometimes may include awards for which a contract has not yet been executed or a notice to proceed has not been issued, but for which there are no remaining major uncertainties that the project will proceed (e.g., adequate funding is in place).

The outlook for our Company's growth over the next several years remains favorable, particularly in the Civil and Specialty Contractors segments, although the pace of growth could be moderated by project delays or the timing of project completions and project ramp-up activities. We anticipate that additional significant new awards should benefit these segments based on long-term capital spending plans by state, local and federal customers, as well as bipartisan support for infrastructure investments. In recent years, voters in numerous states approved dozens of long-term transportation funding measures totaling approximately \$200 billion in long-term funding. The largest of these were in Los Angeles County, where Measure M, a half-cent sales tax increase, was approved and is expected to generate \$120 billion of funding over 40 years and in Seattle, Washington, where Sound Transit 3 was passed and is expected to generate \$54 billion of funding over 25 years. In addition, the Trump Administration previously proposed a significant infrastructure investment program. Furthermore, several large, long-duration civil infrastructure programs with which we are already involved are progressing, such as the Purple Line Extension projects in Los Angeles and New York City's East Side Access project.

Planning and permitting activities continue on Amtrak’s Northeast Corridor Improvements, including the Gateway Program, which is expected to rehabilitate an existing tunnel and construct a new rail tunnel beneath the Hudson River to connect service between New Jersey and New York’s Penn Station. Finally, while interest rates have climbed modestly from their historical low levels, they remain relatively low and generally favorable to sustain continued demand and spending by public and private customers on infrastructure projects.

For a more detailed discussion of operating performance of each business segment, corporate general and administrative expenses and other items, see *Results of Segment Operations, Corporate, Tax and Other Matters* and *Liquidity and Capital Resources* below.

Results of Segment Operations

The results of our Civil, Building and Specialty Contractors segments are discussed below:

Civil Segment

Revenue and income from construction operations for the Civil segment are as follows:

(in millions)	Year Ended December 31,		
	2018	2017	2016
Revenue	\$ 1,586.1	\$ 1,602.2	\$ 1,669.0
Income from construction operations	168.3	192.2	172.7

Revenue for 2018 decreased slightly compared to 2017, as the impact of certain large projects that completed or are nearing completion was approximately offset by projects that started or experienced higher volume during 2018. Revenue for 2017 decreased 4% compared to 2016 primarily due to the impact of certain projects in New York, Washington and the Midwest that were completed or nearing completion in 2017. The decrease was partially offset by increased activity on certain mass-transit projects in California and New York that were ramping up.

Income from construction operations decreased 12% in 2018 compared to 2017, principally due to the \$17.8 million charge in the first quarter of 2018 discussed above in the *Executive Overview*. Income from construction operations increased 11% in 2017 compared to 2016, principally due to increased project execution activity on certain higher-margin projects in California and New York.

Operating margin was 10.6% in 2018 compared to 12.0% in 2017 and 10.3% in 2016. The operating margin changes in 2018 and 2017 were primarily due to the reasons discussed above that impacted revenue and income from construction operations.

New awards in the Civil segment totaled \$2.6 billion in 2018, \$3.0 billion in 2017 and \$1.6 billion in 2016. New awards in 2018 included the \$800 million Minneapolis Southwest Light Rail Transit project in Minnesota; the Civil segment’s 50% share of the \$1.4 billion Newark Airport Terminal One project, net of subcontracts awarded to Five Star Electric and WDF in the Specialty Contractors segment (with the remaining 50% share of the project booked in the Building segment’s backlog); a \$410 million mass-transit project in California; a \$121 million water tunnel project in California; a \$93 million bridge project in New York; and an \$82 million aircraft maintenance facility and hangar project in Guam.

New awards in 2017 included a \$1.4 billion joint venture mass-transit project in California; a bridge project in Iowa valued at \$323 million; a mass-transit project in New York worth \$292 million; a joint venture tunnel project for a hydroelectric generating station in British Columbia valued at \$274 million; a bridge project in New York valued at \$189 million; \$97 million of additional scope for a platform project in New York; a joint venture bridge project in Minnesota, for which the Company’s portion is valued at \$90 million; a bridge project in New York valued at \$82 million; a highway project in Maryland worth \$78 million; and a military training range project in Guam worth \$78 million. New awards in 2016 included a \$663 million mass-transit project in New York, approximately \$277 million of new bridge projects in the Midwest, the Company’s share of \$244 million of additional contract scope for a mass-transit project in California, a \$107 million highway project in Virginia and a \$97 million airport terminal expansion project in Guam.

Backlog for the Civil segment was \$5.1 billion as of December 31, 2018, compared to \$4.1 billion as of December 31, 2017 and \$2.7 billion as of December 31, 2016. Civil segment backlog grew 25% year-over-year in 2018 as a result of significant new award activity discussed above. The segment continues to experience strong demand reflected in a large pipeline of prospective projects, substantial anticipated funding from various voter-approved transportation measures and public agencies’ long-term spending plans. The Civil segment is well-positioned to capture its share of these prospective projects. The segment, however, continues to face considerable competition, including periodic aggressive bids from competitors.

Building Segment

Revenue and income from construction operations for the Building segment are as follows:

(in millions)	Year Ended December 31,		
	2018	2017	2016
Revenue	\$ 1,861.7	\$ 1,941.3	\$ 2,069.8
Income from construction operations	43.9	34.2	51.6

Revenue for 2018 decreased modestly compared to 2017. The decrease was primarily driven by the net impact of the completion and ramp-up of various large projects in California, with the biggest contributor being a large technology project that was completed in the second quarter of 2018. Revenue for 2017 decreased slightly compared to 2016, principally due to decreased project execution activity on certain projects in California and Florida that were substantially complete, partially offset by increased activity on certain hospitality and gaming projects and a large technology project.

Despite the slight volume reduction, income from construction operations increased 28% in 2018 compared to 2017, largely due to contributions from the Newark Airport Terminal One project and a favorable closeout adjustment on a courthouse project in California. Income from construction operations decreased 34% in 2017 compared to 2016, primarily due to favorable closeout activities in 2016 on two projects in New York and the volume changes mentioned above. The decrease was partially offset by improved performance on a large technology project in California that was nearing completion.

Operating margin was 2.4% in 2018 compared to 1.8% in 2017 and 2.5% in 2016. The operating margin changes in 2018 and 2017 were due to the factors mentioned above that drove the changes in revenue and income from construction operations.

New awards in the Building segment totaled \$2.5 billion in 2018, \$1.7 billion in 2017 and \$1.3 billion in 2016. New awards in 2018 included the Building segment's 50% share of the \$1.4 billion Newark Airport Terminal One project, net of subcontracts awarded to Five Star Electric and WDF in the Specialty Contractors segment; \$311 million of additional funding for a technology project in California; a government office building project in California valued at \$215 million; a \$100 million military facility project in Saudi Arabia; an \$88 million airport parking garage project in South Carolina; and incremental funding of \$90 million and \$82 million, respectively, for another technology office project and a health care project, both in California.

New awards in 2017 included four health care projects in California collectively worth \$328 million; \$250 million of initial funding for a technology office building in California; additional scope of work valued at \$121 million for another technology office project in California; a U.S. embassy renovation project in Uruguay valued at \$87 million; and an \$80 million military facility project in Saudi Arabia. New awards in 2016 included a hospitality and gaming project in California and another in Maryland, collectively valued at \$372 million; a hospitality project in California valued at \$120 million; and a multi-unit residential project in Florida valued at \$72 million.

Backlog for the Building segment was \$2.3 billion as of December 31, 2018, compared to \$1.7 billion as of December 31, 2017 and \$2.0 billion as of December 31, 2016. The backlog growth in 2018 was primarily due to the award of the Newark Airport Terminal One project. The decline in backlog for 2017 was due to revenue burn that outpaced new awards. The Building segment continues to have a large volume of prospective projects, some of which have already been bid and are expected to be selected and awarded by customers in 2019. Demand for our building services is expected to remain stable due to ongoing customer spending supported by a still favorable interest rate environment.

Specialty Contractors Segment

Revenue and income from construction operations for the Specialty Contractors segment are as follows:

(in millions)	Year Ended December 31,		
	2018	2017	2016
Revenue	\$ 1,006.9	\$ 1,213.7	\$ 1,234.3
Income from construction operations	43.4	18.9	37.9

Revenue for 2018 decreased 17% compared to 2017 primarily due to reduced project execution activities on various electrical projects in New York and a mass-transit project in California. Revenue for 2017 decreased modestly compared to 2016, as decreased activity on various electrical projects in New York was largely offset by increased activity on various electrical projects in the southern U.S. and California.

Despite the volume reduction, income from construction operations increased 130% in 2018 compared to 2017, principally due to the absence of prior year unfavorable adjustments on certain mechanical projects in New York (\$13.1 million in the aggregate, none of which were individually material) and California (which were not material individually or in the aggregate). Overall improvement in

the performance of other mechanical projects in New York also contributed to the increase. Income from construction operations decreased 50% in 2017 compared to 2016, principally due to the impact of the above-mentioned unfavorable project adjustments on certain mechanical projects in New York and California. The decrease was partially offset by improved profitability on various electrical projects in New York and the increased activity mentioned above on various electrical projects.

Operating margin was 4.3% in 2018 compared to 1.6% in 2017 and 3.1% in 2016. The margin changes in both 2018 and 2017 were due to the factors mentioned above that impacted income from construction operations for both years.

New awards in the Specialty Contractors segment totaled \$1.4 billion in 2018, \$1.1 billion in 2017 and \$867 million in 2016. New awards in 2018 included \$364 million of electrical and mechanical subcontracts for the Newark Airport Terminal One project; \$294 million for various electrical projects in New York; \$248 million for various electrical projects in the southern United States and California; and \$243 million for two large mechanical projects in New York.

New awards in 2017 included approximately \$426 million for various electrical projects in the southern United States and California, two electrical subcontracts for mass-transit projects in New York collectively valued at \$158 million, and four mechanical contracts in New York with a total value of \$131 million. New awards in 2016 included various mechanical projects in New York collectively valued at approximately \$146 million, several electrical projects in the southern United States totaling approximately \$93 million and an electrical subcontract for a mass-transit project in New York valued at \$86 million.

Backlog for the Specialty Contractors segment was \$1.8 billion as of December 31, 2018 compared to \$1.5 billion as of December 31, 2017 and \$1.6 billion as of December 31, 2016. The Specialty Contractors segment continues to have a substantial volume of prospective projects with demand increasing because of strong public and private sector spending on civil and building projects. The Specialty Contractors segment is increasingly focused on servicing our growing backlog of large Civil and Building segment projects, but remains well-positioned to capture its share of new projects for external customers, leveraging the size and scale of our business units that operate in New York, Texas, Florida and California and the strong reputation held by these business units for high-quality work on large, complex projects.

Corporate, Tax and Other Matters

Corporate General and Administrative Expenses

Corporate general and administrative expenses were \$63.8 million in 2018, \$65.9 million in 2017 and \$60.2 million in 2016. The 2017 increase in corporate general and administrative expenses compared to 2016 was predominantly due to higher compensation-related expenses pertaining to the employment and retention of certain key executives.

Other Income, Net, Interest Expense and Income Tax (Expense) Benefit

(in millions)	Year Ended December 31,		
	2018	2017	2016
Other income, net	\$ 4.3	\$ 43.9	\$ 7.0
Interest expense	(63.5)	(69.4)	(59.8)
Income tax (expense) benefit	(34.8)	0.6	(53.3)

Other income, net, decreased by \$39.6 million in 2018 compared to 2017, and increased by \$36.9 million in 2017 compared to 2016. The higher balance in 2017 relative to the other years presented was primarily due to a \$37.0 million gain associated with a legal settlement in 2017, as discussed in Note 9 of the Notes to Consolidated Financial Statements.

Interest expense decreased \$5.9 million in 2018 compared to the prior year, principally due to non-cash extinguishment costs recognized in 2017 related to our debt restructuring transactions in April 2017. Interest expense increased \$9.6 million in 2017 compared to 2016 principally due to non-cash extinguishment costs recognized in 2017 related to our debt restructuring transactions, as well as increased non-cash interest charges from the amortization of debt discount and issuance costs.

The effective income tax rate was 26.3% for 2018, (0.4)% for 2017 and 35.7% for 2016. As discussed in the *Executive Overview*, the effective tax rates for 2018 and 2017 were positively impacted by the enactment of the TCJA. The TCJA included a number of provisions including, but not limited to, the reduction of the U.S. corporate tax rate from 35% to 21%, effective January 1, 2018. As a result, our tax expense in 2018 was lower due to the U.S. statutory rate reduction and we recognized a one-time federal income tax benefit of \$53.3 million in 2017 primarily related to the required remeasurement of deferred tax assets and liabilities as of December 31, 2017 with the enactment of the TCJA. Excluding the benefit resulting from the enactment of the TCJA, the effective income tax rate for 2017 would have been 34.3%. For a further discussion of the effect of the TCJA, see Note 5 of the Notes to Consolidated Financial Statements.

Liquidity and Capital Resources

Liquidity is provided by available cash and cash equivalents, cash generated from operations, credit facilities and access to capital markets. We have a committed line of credit totaling \$350 million, which may be used for revolving loans, letters of credit and/or general purposes. We believe that cash generated from operations, along with our unused credit capacity of \$309 million and cash position as of December 31, 2018, will be sufficient to fund any working capital needs for the next 12 months.

Cash and Working Capital

Cash and cash equivalents were \$116.1 million as of December 31, 2018 compared to \$192.9 million as of December 31, 2017. Cash immediately available for general corporate purposes was \$51.7 million and \$94.7 million as of December 31, 2018 and 2017, respectively, with the remainder being our proportionate share of cash held by our unconsolidated joint ventures and also amounts held by our consolidated joint ventures, which, in both cases, were available only for joint venture-related uses, including distributions to joint venture partners. In addition, our restricted cash and restricted investments, held primarily to secure insurance-related contingent obligations, totaled \$61.9 million as of December 31, 2018 compared to \$57.8 million as of December 31, 2017.

During the year ended December 31, 2018, net cash provided by operating activities was \$21.4 million, due primarily to cash generated from income sources mostly offset by changes in net investment in working capital. The change in working capital primarily reflects an increase in costs and estimated earnings in excess of billings, which was partially offset by an increase in billings in excess of costs and estimated earnings. During the year ended December 31, 2017, net cash provided by operating activities was \$163.6 million also due primarily to cash generated from income sources partially offset by changes in net investment in working capital. The change in working capital primarily reflects an increase in accounts receivable and costs and estimated earnings in excess of billings, which was mostly offset by an increase in billings in excess of costs and estimated earnings.

Cash flow from operations for 2018 was \$21.4 million compared to \$163.6 million in 2017 (which was a record high for the Company since the 2008 merger). The decrease primarily reflects a higher net investment in working capital, as costs and estimated earnings in excess of billings increased \$108.6 million more in 2018 than in 2017. In addition, cash flows from operations for 2017 benefited from a \$37.0 million cash settlement associated with a legal matter, as discussed in Note 9 of the Notes to Consolidated Financial Statements. Cash flow from operations for 2017 improved \$50.2 million compared to 2016 and was due to a lower net investment in working capital.

During 2018 and 2017, we used \$70.2 million and \$87.1 million of cash from investing activities, respectively. The net cash used in investing activities in 2018 was primarily due to \$77.1 million of expenditures for the acquisition of property and equipment. The net cash used in investing activities for 2017 was attributable to investments in securities of \$61.0 million and the acquisition of property and equipment of \$30.3 million.

During 2018, we utilized \$29.0 million of cash from financing activities principally due to distributions to noncontrolling interests of \$29.0 million and an earn-out payment related to a 2011 acquisition of \$16.0 million, partially offset by increased net borrowings of \$14.8 million. Net cash used in financing activities for 2017 was \$75.4 million, primarily due to the net paydown of debt, distributions paid to noncontrolling interests of \$17.5 million and the payment of \$15.3 million in debt issuance and extinguishment costs related to debt restructuring transactions.

As of December 31, 2018, we had working capital of \$1.6 billion, a ratio of current assets to current liabilities of 1.99 and a ratio of debt to equity of 0.43 compared to working capital of \$1.5 billion, a ratio of current assets to current liabilities of 1.94 and a ratio of debt to equity of 0.43 at December 31, 2017.

Debt

Summarized below are the key terms of our debt as of December 31, 2018. For additional information, refer to Note 7 of the Notes to Consolidated Financial Statements, as applicable.

2017 Credit Facility

On April 20, 2017, we entered into a credit agreement (the "2017 Credit Facility") with SunTrust Bank as Administrative Agent, Swing Line Lender and L/C Issuer and a syndicate of other lenders. The 2017 Credit Facility provides for a \$350 million revolving credit facility (the "2017 Revolver") and a sublimit for the issuance of letters of credit and swingline loans up to the aggregate amount of \$150 million and \$10 million, respectively, both maturing on April 20, 2022 unless any of the Convertible Notes are outstanding on December 17, 2020, in which case all such borrowings will mature on December 17, 2020 (subject to certain further exceptions). In addition, the 2017 Credit Facility permits additional borrowings in an aggregate amount of \$150 million, which can be in the form of increased capacity on the 2017 Revolver or the establishment of one or more term loans. For additional information regarding the terms of our 2017 Credit Facility, refer to Note 7 of the Notes to Consolidated Financial Statements.

The table below presents our actual and required consolidated fixed charge coverage ratio and consolidated leverage ratio under the 2017 Credit Facility for the period, which are calculated on a rolling four-quarter basis:

	Twelve Months Ended December 31, 2018	
	Actual	Required
Fixed charge coverage ratio	3.19 to 1.00	> or = 1.25 : 1.00
Leverage ratio	2.74 to 1.00	< or = 3.50 : 1.00

As of the filing date of this Form 10-K, we are in compliance and expect to continue to be in compliance with the financial covenants under the 2017 Credit Facility.

2017 Senior Notes

On April 20, 2017, we issued \$500 million in aggregate principal amount of 6.875% Senior Notes due 2025 (the “2017 Senior Notes”) in a private placement. Interest on the 2017 Senior Notes is payable in arrears semi-annually on May 1 and November 1 of each year, beginning on November 1, 2017.

Repurchase and Redemption of Notes and Termination of Credit Facility

We used proceeds from the 2017 Senior Notes and 2017 Revolver to repurchase or redeem our previously outstanding senior notes, to pay off and terminate our previous credit facility which included a term loan and revolver, as well as to pay accrued but unpaid interest and fees.

Convertible Notes

On June 15, 2016, we completed an offering of \$200 million of Convertible Notes. The Convertible Notes are senior unsecured obligations of the Company. Interest on the Convertible Notes is payable on June 15 and December 15 of each year, commencing on December 15, 2016, until the maturity date. Upon conversion, and at the Company’s election, the Company may satisfy its conversion obligation with cash, shares of its common stock or a combination thereof. As of December 31, 2018, none of the conversion provisions of our Convertible Notes have been triggered.

Equipment financing and mortgages

We have certain loans entered into for the purchase of specific property, plant and equipment and secured by the assets purchased. The aggregate balance of equipment financing loans was approximately \$38.6 million and \$61.1 million at December 31, 2018 and 2017, respectively, with interest rates ranging from 2.19% to 3.38% with equal monthly installment payments over periods up to ten years with additional balloon payments of \$12.4 million in 2021 and \$6.3 million in 2022 on the remaining loans outstanding at December 31, 2018. The aggregate balance of mortgage loans was approximately \$12.3 million and \$15.7 million at December 31, 2018 and 2017, respectively, with interest rates ranging from a fixed 3.50% to London Interbank Offered Rate (“LIBOR”) plus 3% and equal monthly installment payments over periods up to ten years with additional balloon payments of \$2.9 million in 2021 and \$7.0 million in 2023.

Contractual Obligations

Our outstanding contractual obligations as of December 31, 2018 are summarized in the following table:

(in thousands)	Total	Payments Due			
		1 year or less	2-3 years	4-5 years	Over 5 years
Debt ^(a)	\$ 796,502	\$ 16,817	\$ 265,150	\$ 14,535	\$ 500,000
Interest on debt ^(a)	240,283	43,804	81,339	69,307	45,833
Operating leases	56,025	14,039	18,170	12,154	11,662
Pension benefit payments ^(b)	6,162	4,862	1,300	—	—
Other	7,388	747	540	48	6,053
Total	\$ 1,106,360	\$ 80,269	\$ 366,499	\$ 96,044	\$ 563,548

- (a) Debt and interest on debt exclude unamortized debt discount and deferred debt issuance costs. Amounts for interest on debt are based on interest rates in effect as of December 31, 2018.
- (b) The Company utilizes current actuarial assumptions in determining the expected minimum contributions to fund our defined benefit pension and other post-retirement plans. Estimated contributions for periods beyond the scope of the actuarial assumptions have not been included because, in management’s judgment, such estimates may not be reliable.

Off-Balance Sheet Arrangements

None.

Critical Accounting Policies

Our discussion and analysis of our financial condition and results of operations is based upon our Consolidated Financial Statements, which have been prepared in accordance with GAAP. Our significant accounting policies are described in Note 1 of the Notes to Consolidated Financial Statements. The preparation of the Consolidated Financial Statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenue and expenses, and related disclosure of contingent assets and liabilities. Estimates are based on information available through the date of the issuance of the financial statements; accordingly, actual results in future periods could differ from these estimates. Effective January 1, 2018, the Company adopted Accounting Standards Codification (“ASC”) 606, *Revenue from Contracts with Customers* (“ASC 606”). See Note 1(d), Note 3 and Note 4 of the Notes to Consolidated Financial Statements for more information. Significant judgments and estimates used in the preparation of the Consolidated Financial Statements apply to the following critical accounting policies:

Method of Accounting for Contracts — Contract revenue is recognized over time using the cost-to-cost method which measures progress towards completion based on the ratio of contract costs incurred to date compared to total estimated costs for each performance obligation. The estimates used in accounting for contracts with customers require judgment and assumptions regarding both future events and the evaluation of contingencies such as the impact of change orders, liability claims, other contract disputes, the achievement of contractual performance standards and potential variances in project schedule and costs. Changes to the total estimated contract cost, either due to unexpected events or revisions to management’s initial estimates, for a given project are recognized in the period in which they are determined.

In certain instances, we provide guaranteed completion dates and/or achievement of other performance criteria. Failure to meet schedule or performance guarantees could result in unrealized incentive fees and/or liquidated damages. In addition, depending on the type of contract, unexpected increases in contract cost may be unrecoverable, resulting in total cost exceeding revenue realized from the projects. The Company generally provides limited warranties for work performed, with warranty periods typically extending for a limited duration following substantial completion of the Company’s work on a project. Historically, warranty claims have not resulted in material costs incurred.

Claims arising from construction contracts have been made against the Company by customers, and the Company has made claims against customers for costs incurred in excess of current contract provisions. The Company recognizes revenue for claims as variable consideration in accordance with ASC 606. Assumptions as to the occurrence of future events and the likelihood and amount of variable consideration are made during the contract performance period. Estimates of variable consideration and determination of whether to include estimated amounts in the transaction price are based largely on an assessment of anticipated performance and all information (historical, current and forecasted) that is reasonably available to management.

Construction Joint Ventures — Certain contracts are executed through joint ventures. The arrangements are often formed for the execution of single contracts or projects and allow the Company to share risks and secure specialty skills required for project execution.

In accordance with ASC 810, *Consolidation* (“ASC 810”) the Company assesses its joint ventures at inception to determine if any meet the qualifications of a variable interest entity (“VIE”). The Company considers a joint venture a VIE if either (a) the total equity investment is not sufficient to permit the entity to finance its activities without additional subordinated financial support, (b) characteristics of a controlling financial interest are missing (either the ability to make decisions through voting or other rights, the obligation to absorb the expected losses of the entity or the right to receive the expected residual returns of the entity), or (c) the voting rights of the equity holders are not proportional to their obligations to absorb the expected losses of the entity and/or their rights to receive the expected residual returns of the entity and substantially all of the entity’s activities either involve or are conducted on behalf of an investor that has disproportionately few voting rights. Upon the occurrence of certain events outlined in ASC 810, the Company reassesses its initial determination of whether the joint venture is a VIE.

The Company also evaluates whether it is the primary beneficiary of each VIE and consolidates the VIE if the Company has both (a) the power to direct the economically significant activities of the entity and (b) the obligation to absorb losses of, or the right to receive benefits from, the entity that could potentially be significant to the VIE. The Company considers the contractual agreements that define the ownership structure, distribution of profits and losses, risks, responsibilities, indebtedness, voting rights and board representation of the respective parties in determining whether it qualifies as the primary beneficiary. The Company also considers all parties that have direct or implicit variable interests when determining whether it is the primary beneficiary. When the Company is determined to be the primary beneficiary, the VIE is consolidated. In accordance with ASC 810, management’s assessment of whether the Company is the primary beneficiary of a VIE is performed continuously.

For construction joint ventures that do not need to be fully consolidated, the Company accounts for its interest in the joint ventures using the proportionate consolidation method, whereby the Company's proportionate share of the joint ventures' assets, liabilities, revenue and cost of operations are included in the appropriate classifications in the Company's consolidated financial statements. Intercompany balances and transactions have been eliminated. See Note 1(b) and Note 13 for additional discussion regarding VIEs.

Recoverability of Goodwill — Goodwill represents the excess of amounts paid over the fair value of net assets acquired from an acquisition. In order to determine the amount of goodwill resulting from an acquisition, we perform an assessment to determine the value of the acquired company's tangible and identifiable intangible assets and liabilities. In our assessment, we determine whether identifiable intangible assets exist, which typically include backlog, customer relationships and trade names.

We test goodwill for impairment annually as of October 1 of each year for our Civil, Building and Specialty Contractors operating segments, which are the same as our reporting units for goodwill impairment analysis. This test requires us to estimate the fair value of each reporting unit, using income and market approaches and to compare the calculated fair value of each reporting unit to its carrying value, which is equal to the reporting unit's net assets. If the calculated fair value of a reporting unit is less than its carrying value, we recognize an impairment charge equal to the difference.

The impairment evaluation process requires assumptions that are subject to a high degree of judgment such as revenue growth rates, profitability levels, discount rates, industry market multiples and weighted average cost of capital (WACC). Changes in these assumptions would impact the results of our impairment tests.

As part of our annual impairment test, we also assess the reasonableness of the estimated fair value of our reporting units by comparing the sum of our reporting units' fair values to our market capitalization and calculating an implied control premium (the excess of the aggregate fair values of our reporting units over our market capitalization). The reasonableness of this implied control premium is evaluated by considering a number of factors including, but not limited to, the following:

- **Market control premium:** We compare our implied control premium to those observed in industry-specific mergers and acquisition transactions over a sustained period of time with an emphasis on more recent transactions.
- **Sensitivity analysis:** We perform a sensitivity analysis to determine the minimum control premium required to recover our carrying value as of our testing date. The minimum control premium required is then compared to the observable market information.
- **Other entity-specific factors:** A significant portion of our common stock is owned by our Chairman and CEO. As a result, our public float, which represents the percentage of our total outstanding shares of common stock that are freely traded by public investors, is significantly lower relative to that of our peers. While this circumstance does not impact the fair value of our reporting units, we believe it leads to an inherent marketability discount impacting our stock price.

During interim periods, including those subsequent to the Company's October 1 annual test date, we evaluate events and circumstances, including, but not limited to, an examination of macroeconomic conditions, cost factors, overall financial performance by each reporting unit, other relevant entity-specific events, and trends in the stock prices of our Company and peers to determine if such factors indicate that it is likely that the goodwill for one or more of our reporting units is impaired, thus warranting the performance of the annual impairment test sooner than the fourth quarter of the year.

During the fourth quarter of 2018, we conducted our annual goodwill impairment test and determined that goodwill was not impaired since the estimated fair value for each of our reporting units exceeded their respective net book values. Further, the implied control premium was consistent with or within a reasonable range of actual premiums paid in industry-specific merger and acquisition transactions observed over a sustained period of time. The estimated fair value of the Civil and Building reporting units were substantially in excess of their carrying value. The estimated fair value of our Specialty Contractors reporting unit exceeded its carrying value, but not by a significant amount. As such, there is a risk of goodwill impairment if future events are less favorable than what we assumed or estimated in our impairment analysis.

The Company considered relevant events and circumstances since the annual goodwill impairment test, including, but not limited to, an examination of macroeconomic conditions, industry and market conditions, cost factors, overall financial performance by each reporting unit, other relevant entity-specific events, and trends in the stock prices of the Company and its peers. The Company has continued to observe significant opportunities in a robust marketplace which have led to sizable new awards and significant growth in backlog for each of the Company's reporting units, including the Specialty Contractors reporting unit, which has backlog margins in excess of historical averages. In considering the totality of qualitative factors known as of the reporting date, we determined that no triggering events occurred or circumstances changed since the date of our October 1 annual test that would more likely than not reduce the fair value of the Company's reporting units below their carrying amounts. Accordingly, an interim impairment test was not required. However, we will continue to monitor circumstances such as a sustained decline in our stock price and market capitalization or other factors, as well as consider entity specific quantitative and qualitative factors to identify potential triggering events that would more likely than not reduce the fair value of the Company's reporting units below their carrying amounts.

New Accounting Pronouncements — For discussion of recently adopted accounting standards and updates, see Note 1 of the Notes to Consolidated Financial Statements.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Interest rate risk is our primary market risk exposure. Borrowing under our 2017 Credit Facility and certain other debt obligations have variable interest rates subject to interest rate risk. As of December 31, 2018, we had approximately \$49.1 million of net borrowings with variable interest rates. If short-term floating interest rates were to increase by 0.50%, the change in interest on these borrowings would increase by approximately \$250,000.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

The Report of Independent Registered Public Accounting Firm, Consolidated Financial Statements and Supplementary Schedules are set forth in Item 15 in this Annual Report on Form 10-K and are incorporated herein by reference.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures — An evaluation of the effectiveness of the design and operation of our disclosure controls and procedures as defined by Rule 13a-15(e) under the Exchange Act, as of December 31, 2018 was made under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer. Based upon that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that, as of December 31, 2018, our disclosure controls and procedures were effective, in that they provide reasonable assurance that information required to be disclosed in our reports filed or submitted under the Exchange Act were recorded, processed, summarized and reported within the time periods specified in the SEC's rules. Our disclosure controls and procedures are designed to ensure that information we are required to disclose in such reports is accumulated and communicated to management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosures.

Management's Report on Internal Control over Financial Reporting — Our management, under the supervision of our Chief Executive Officer and Chief Financial Officer, is responsible for establishing and maintaining an adequate system of internal control over financial reporting as such term is defined in Exchange Act Rules 13a-15(f). In designing and evaluating our system of internal control over financial reporting, we recognize that inherent limitations exist in any control system no matter how well designed and operated, and we can only provide reasonable, not absolute, assurance of achieving the desired control objectives. In making this assessment, management utilized the criteria issued in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this assessment, management concluded that, as of December 31, 2018, our internal control over financial reporting was effective based on those criteria.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. In addition, projections of any evaluation of the effectiveness to future periods are subject to the risk that controls may become inadequate due to changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

Deloitte & Touche LLP, the independent registered public accounting firm that audited our consolidated financial statements included in this Annual Report on Form 10-K, has issued an attestation report on the Company's internal control over financial reporting as of December 31, 2018.

Changes in Internal Control over Financial Reporting — There were no changes in our internal control over financial reporting for the quarter ended December 31, 2018 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of
Tutor Perini Corporation
Sylmar, California

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Tutor Perini Corporation and subsidiaries (the “Company”) as of December 31, 2018, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2018, of the Company and our report dated February 27, 2019, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company’s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management’s Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company’s internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company 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 audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Los Angeles, California

February 27, 2019

ITEM 9B. OTHER INFORMATION

None.

PART III.

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information required by this Item 10 is hereby incorporated by reference from our definitive proxy statement to be filed within 120 days after the end of 2018.

ITEM 11. EXECUTIVE COMPENSATION

The information required by this Item 11 is hereby incorporated by reference from our definitive proxy statement to be filed within 120 days after the end of 2018.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by this Item 12 is hereby incorporated by reference from our definitive proxy statement to be filed within 120 days after the end of 2018.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required by this Item 13 is hereby incorporated by reference from our definitive proxy statement to be filed within 120 days after the end of 2018.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The information required by this Item 14 is hereby incorporated by reference from our definitive proxy statement to be filed within 120 days after the end of 2018.

PART IV.

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

Tutor Perini Corporation and Subsidiaries

(a) List of Documents Filed as a Part of This Report.

1. *Financial Statements:*
Our consolidated financial statements as of December 31, 2018 and 2017 and for each of the three years in the period ended December 31, 2018 and the Notes thereto, together with the report of the independent registered public accounting firm on those consolidated financial statements are hereby filed as part of this Annual Report on Form 10-K, beginning on page F-1.
2. *Financial Statement Schedules:*
All consolidated financial statement schedules are omitted because of the absence of the conditions under which they are required or because the required information is included in the Consolidated Financial Statements and in the Notes thereto.
3. *Exhibits:*
See exhibits listed under Part (b) below.

(b) Exhibits.

EXHIBIT INDEX

The following designated exhibits are, as indicated below, either filed herewith or have heretofore been filed with the SEC under the Securities Act or the Exchange Act and are referred to and incorporated herein by reference to such filings.

Exhibit 3.	Articles of Incorporation and By-laws
3.1	Restated Articles of Organization (incorporated by reference to Exhibit 3.1 to Form 10-K (File No. 001-06314) filed on March 31, 1997).
3.2	Articles of Amendment to the Restated Articles of Organization of Tutor Perini Corporation (incorporated by reference to Exhibit 3.1 to Form 8-K filed on April 12, 2000).
3.3	Articles of Amendment to the Restated Articles of Organization of Tutor Perini Corporation (incorporated by reference to Exhibit 3.1 to Form 8-K filed on September 11, 2008).
3.4	Articles of Amendment to the Restated Articles of Organization of Tutor Perini Corporation (incorporated by reference to Exhibit 3.5 to Form 10-Q filed on August 10, 2009).
3.5	Third Amended and Restated By-laws of Tutor Perini Corporation (incorporated by reference to Exhibit 3.5 to Form 10-Q filed on August 2, 2016).
Exhibit 4.	Instruments Defining the Rights of Security Holders, Including Indentures
4.1	Shareholders Agreement, dated April 2, 2008, by and among Tutor Perini Corporation, Ronald N. Tutor and the shareholders of Tutor-Saliba Corporation signatory thereto (incorporated by reference to Exhibit 4.1 to Form 8-K filed on April 7, 2008).
4.2	Amendment No. 1 to the Shareholders Agreement, dated September 17, 2010, by and between Tutor Perini Corporation and Ronald N. Tutor, as shareholder representative (incorporated by reference to Exhibit 4.1 to Form 8-K filed on September 20, 2010).
4.3	Amendment No. 2 to the Shareholders Agreement, dated June 2, 2011, by and between Tutor Perini Corporation and Ronald N. Tutor, as shareholder representative (incorporated by reference to Exhibit 4.1 to Form 8-K filed on June 6, 2011).
4.4	Amendment No. 3 to the Shareholders Agreement, dated September 13, 2011, by and between Tutor Perini Corporation and Ronald N. Tutor, as shareholder representative (incorporated by reference to Exhibit 4.1 to Form 8-K filed on September 16, 2011).
4.5	Registration Rights Agreement, dated October 20, 2010, by and among Tutor Perini Corporation, certain subsidiary guarantors named therein and the initial purchasers named therein (incorporated by reference to Exhibit 4.2 to Form 8-K filed on October 21, 2010).
4.6	Indenture, dated June 15, 2016, by and between Tutor Perini Corporation and Wilmington Trust, National Association (incorporated by reference to Exhibit 4.1 to Form 8-K filed on June 16, 2016).
4.7	Indenture, dated April 20, 2017, among Tutor Perini Corporation, the guarantors named therein and Wilmington Trust, National Association, as trustee (incorporated by reference to Exhibit 4.1 to Form 8-K filed on April 25, 2017).
Exhibit 10.	Material Contracts
10.1*	Form of Director and Officer Indemnification Agreement (incorporated by reference to Exhibit 10.19 to Amendment No. 1 to Form S-1 (File No. 333-111338) filed on February 10, 2004).
10.2*	2009 General Incentive Compensation Plan (incorporated by reference to Annex B to the Company's Definitive Proxy Statement on Form DEF 14A filed on April 17, 2009).
10.3*	Amended and Restated Tutor Perini Corporation Long-Term Incentive Plan (as amended on October 2, 2014 and included as Exhibit A to the Company's Definitive Proxy Statement on Schedule 14A, filed with the SEC on October 2, 2014 and incorporated herein by reference).
10.4*	Tutor Perini Corporation Incentive Compensation Plan (incorporated by reference to Exhibit 10.1 to Form 8-K filed on May 26, 2017).
10.5*	Amended and Restated Employment Agreement, dated December 22, 2014, by and between Tutor Perini Corporation and Ronald N. Tutor (incorporated by reference to Exhibit 10.1 to Form 8-K filed on December 24, 2014).
10.6*	Amendment No. 1 to Amended and Restated Employment Agreement, dated January 5, 2018, by and between Tutor Perini Corporation and Ronald N. Tutor (incorporated by reference to Exhibit 10.1 to Form 8-K filed on January 8, 2018).
10.7	Commercial Lease Agreement, dated April 18, 2014, by and among Tutor Perini Corporation and Ronald N. Tutor (incorporated by reference to Exhibit 10.1 to Form 10-Q filed on May 7, 2014).
10.8	Industrial Lease Agreement, dated April 18, 2014, by and among Tutor Perini Corporation and Kristra Investments, Ltd. (incorporated by reference to Exhibit 10.2 to Form 10-Q filed on May 7, 2014).

10.9*	Amended and Restated Employment Agreement, dated November 1, 2016, by and between James A. Frost and Tutor Perini Corporation (incorporated by reference to Exhibit 10.1 to Form 10-Q filed on November 2, 2016).
10.10*	Employment Agreement, dated September 6, 2017, by and between Tutor Perini Corporation and Gary G. Smalley (incorporated by reference to Exhibit 10.1 to Form 8-K filed on September 8, 2017).
10.11	Credit Agreement, dated April 20, 2017, by and among Tutor Perini Corporation, the subsidiaries of Tutor Perini Corporation identified therein, SunTrust Bank, as Administrative Agent, Swing Line Lender and L/C Issuer, and the other lenders from time to time party thereto (incorporated by reference to Exhibit 10.1 to Form 8-K filed on April 25, 2017).
10.12*	Employment Offer Letter, dated May 9, 2017, by and between Tutor Perini Corporation and Leonard J. Rejcek (incorporated by reference to Exhibit 10.1 to Form 10-Q filed on May 9, 2018).
10.13*	Amendment to Employment Offer Letter, dated August 11, 2017, by and between Tutor Perini Corporation and Leonard J. Rejcek (incorporated by reference to Exhibit 10.2 to Form 10-Q filed on May 9, 2018).
10.14*	Tutor Perini Corporation Omnibus Incentive Plan (incorporated by reference to Exhibit 10.1 to Form 8-K filed on May 25, 2018).
10.15*	Employment Offer Letter, dated June 12, 2018, by and between Tutor Perini Corporation and Wendy A. Hallgren (incorporated by reference to Exhibit 10.1 to Form 10-Q filed on November 7, 2018).
Exhibit 21	Subsidiaries of Tutor Perini Corporation.
Exhibit 23	Consent of Independent Registered Public Accounting Firm.
Exhibit 24	Power of Attorney executed by members of the Company's Board of Directors allowing Management to sign the Company's Form 10-K on their behalf.
Exhibit 31.1	Certification of Principal Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
Exhibit 31.2	Certification of Principal Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
Exhibit 32.1	Certification of Principal Executive Officer Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
Exhibit 32.2	Certification of Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
Exhibit 95	Mine Safety Disclosure.
Exhibit 101.INS	XBRL Instance Document.
Exhibit 101.SCH	XBRL Taxonomy Extension Schema Document.
Exhibit 101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.
Exhibit 101.LAB	XBRL Taxonomy Extension Label Linkbase Document.
Exhibit 101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.
Exhibit 101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.

* Management contract or compensatory arrangement required to be filed as an exhibit pursuant to Item 15(a)(3) of Form 10-K

ITEM 16. FORM 10-K SUMMARY

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act, the Company has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Tutor Perini Corporation
(Registrant)

Dated: February 27, 2019

By: /s/ Gary G. Smalley
Gary G. Smalley
Executive Vice President and Chief Financial Officer

Pursuant to the requirements of the Securities Exchange Act, this report has been signed below by the following persons on behalf of the Company and in the capacities and on the dates indicated.

Signature	Title	Date
• Principal Executive Officer and Director		
<u>/s/ Ronald N. Tutor</u> Ronald N. Tutor	Chairman and Chief Executive Officer	February 27, 2019
• Principal Financial Officer		
<u>/s/ Gary G. Smalley</u> Gary G. Smalley	Executive Vice President and Chief Financial Officer	February 27, 2019
• Principal Accounting Officer		
<u>/s/ Ryan J. Soroka</u> Ryan J. Soroka	Vice President and Chief Accounting Officer	February 27, 2019
• Other Directors		
Peter Arkley)	
Sidney J. Feltenstein)	
James A. Frost)	
Michael F. Horodniceanu)	<u>/s/ Gary G. Smalley</u>
Michael R. Klein)	Gary G. Smalley
Robert C. Lieber)	Attorney in Fact
Dennis D. Oklak)	
Raymond R. Oneglia)	
Dale A. Reiss)	
Donald D. Snyder)	
Dickran M. Tevrizian, Jr.)	Dated: February 27, 2019

TUTOR PERINI CORPORATION AND SUBSIDIARIES
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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of
Tutor Perini Corporation
Sylmar, California

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Tutor Perini Corporation and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of income, comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 27, 2019, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company 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.

/s/ Deloitte & Touche LLP

Los Angeles, California

February 27, 2019

We have served as the Company's auditor since 2002.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF INCOME

(in thousands, except per common share amounts)	Year Ended December 31,		
	2018	2017	2016
REVENUE	\$ 4,454,662	\$ 4,757,208	\$ 4,973,076
COST OF OPERATIONS	(4,000,209)	(4,302,803)	(4,515,886)
GROSS PROFIT	454,453	454,405	457,190
General and administrative expenses	(262,577)	(274,928)	(255,270)
INCOME FROM CONSTRUCTION OPERATIONS	191,876	179,477	201,920
Other income, net	4,256	43,882	6,977
Interest expense	(63,519)	(69,384)	(59,782)
INCOME BEFORE INCOME TAXES	132,613	153,975	149,115
Income tax (expense) benefit	(34,832)	569	(53,293)
NET INCOME	97,781	154,544	95,822
LESS: NET INCOME ATTRIBUTABLE TO NONCONTROLLING INTERESTS	14,345	6,162	—
NET INCOME ATTRIBUTABLE TO TUTOR PERINI CORPORATION	\$ 83,436	\$ 148,382	\$ 95,822
BASIC EARNINGS PER COMMON SHARE	\$ 1.67	\$ 2.99	\$ 1.95
DILUTED EARNINGS PER COMMON SHARE	\$ 1.66	\$ 2.92	\$ 1.92
WEIGHTED-AVERAGE COMMON SHARES OUTSTANDING:			
BASIC	49,952	49,647	49,150
DILUTED	50,301	50,759	49,864

The accompanying notes are an integral part of these consolidated financial statements.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in thousands)	Year Ended December 31,		
	2018	2017	2016
NET INCOME	\$ 97,781	\$ 154,544	\$ 95,822
OTHER COMPREHENSIVE INCOME (LOSS), NET OF TAX:			
Defined benefit pension plan adjustments	771	1,424	(2,623)
Foreign currency translation adjustments	(2,945)	1,273	(261)
Unrealized loss in fair value of investments	(778)	(2)	(340)
Unrealized loss in fair value of interest rate swap	—	—	(24)
TOTAL OTHER COMPREHENSIVE INCOME (LOSS), NET OF TAX	(2,952)	2,695	(3,248)
COMPREHENSIVE INCOME	94,829	157,239	92,574
LESS: COMPREHENSIVE INCOME ATTRIBUTABLE TO NONCONTROLLING INTERESTS	14,124	6,162	—
COMPREHENSIVE INCOME ATTRIBUTABLE TO TUTOR PERINI CORPORATION	\$ 80,705	\$ 151,077	\$ 92,574

The accompanying notes are an integral part of these consolidated financial statements.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
CONSOLIDATED BALANCE SHEETS

As of December 31,

(in thousands, except share and per share amounts)	2018	2017
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents (\$43,131 and \$53,067 related to VIEs)	\$ 116,075	\$ 192,868
Restricted cash	3,788	4,780
Restricted investments	58,142	53,014
Accounts receivable (\$62,482 and \$30,003 related to VIEs)	1,261,072	1,265,717
Retainage receivable (\$36,724 and \$12,410 related to VIEs)	478,744	535,939
Costs and estimated earnings in excess of billings	1,142,295	932,758
Other current assets (\$30,185 and \$0 related to VIEs)	115,527	89,316
Total current assets	3,175,643	3,074,392
PROPERTY AND EQUIPMENT:		
Land	41,599	41,382
Building and improvements	125,193	125,029
Construction equipment	486,034	477,988
Other equipment	181,578	182,288
	834,404	826,687
Less accumulated depreciation	(343,735)	(359,188)
Total property and equipment, net (\$51,508 and \$11,641 related to VIEs)	490,669	467,499
GOODWILL	585,006	585,006
INTANGIBLE ASSETS, NET	85,911	89,454
OTHER ASSETS	50,523	47,772
TOTAL ASSETS	\$ 4,387,752	\$ 4,264,123
LIABILITIES AND EQUITY		
CURRENT LIABILITIES:		
Current maturities of long-term debt	\$ 16,767	\$ 30,748
Accounts payable (\$18,070 and \$19,243 related to VIEs)	621,728	699,971
Retainage payable	211,956	261,820
Billings in excess of costs and estimated earnings (\$263,764 and \$120,952 related to VIEs)	573,190	456,869
Accrued expenses and other current liabilities (\$34,828 and \$0 related to VIEs)	174,325	132,438
Total current liabilities	1,597,966	1,581,846
LONG-TERM DEBT , less current maturities, net of unamortized discounts and debt issuance costs totaling \$34,998 and \$45,631	744,737	705,528
DEFERRED TAX LIABILITIES	105,521	108,504
OTHER LONG-TERM LIABILITIES	151,639	163,465
TOTAL LIABILITIES	2,599,863	2,559,343
COMMITMENTS AND CONTINGENCIES (Note 8)		
EQUITY		
Stockholders' equity:		
Preferred stock – authorized 1,000,000 shares (\$1 par value), none issued	—	—
Common stock – authorized 75,000,000 shares (\$1 par value), issued and outstanding 50,025,996 and 49,781,010 shares	50,026	49,781
Additional paid-in capital	1,102,919	1,084,205
Retained earnings	701,681	622,007
Accumulated other comprehensive loss	(45,449)	(42,718)
Total stockholders' equity	1,809,177	1,713,275
Noncontrolling interests	(21,288)	(8,495)
TOTAL EQUITY	1,787,889	1,704,780
TOTAL LIABILITIES AND EQUITY	\$ 4,387,752	\$ 4,264,123

The accompanying notes are an integral part of these consolidated financial statements.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in thousands)	Year Ended December 31,		
	2018	2017	2016
Cash Flows from Operating Activities:			
Net income	\$ 97,781	\$ 154,544	\$ 95,822
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation	43,724	48,387	63,759
Amortization of intangible assets	3,543	3,543	3,543
Share-based compensation expense	22,782	21,174	13,423
Excess income tax benefit from share-based compensation	—	—	(269)
Change in debt discounts and deferred debt issuance costs	12,072	17,595	10,968
Deferred income taxes	(449)	(23,096)	(10,169)
Loss on sale of property and equipment	402	1,131	453
Changes in other components of working capital	(156,844)	(60,214)	(90,530)
Other long-term liabilities	(2,007)	3,656	28,210
Other, net	398	(3,170)	(1,874)
NET CASH PROVIDED BY OPERATING ACTIVITIES	21,402	163,550	113,336
Cash Flows from Investing Activities:			
Acquisition of property and equipment	(77,069)	(30,280)	(15,743)
Proceeds from sale of property and equipment	6,387	2,744	1,899
Investments in securities	(20,848)	(60,967)	—
Proceeds from maturities and sales of investments in securities	21,322	1,370	—
NET CASH USED IN INVESTING ACTIVITIES	(70,208)	(87,133)	(13,844)
Cash Flows from Financing Activities:			
Proceeds from debt	1,753,160	2,161,384	1,353,895
Repayment of debt	(1,738,314)	(2,195,068)	(1,562,684)
Business acquisition related payment	(15,951)	—	—
Issuance of convertible notes	—	—	200,000
Cash payments related to share-based compensation	(2,671)	(11,769)	(584)
Excess income tax benefit from share-based compensation	—	—	269
Distributions paid to noncontrolling interests	(29,000)	(17,499)	—
Contributions from noncontrolling interests	3,797	2,842	—
Debt issuance and extinguishment costs	—	(15,266)	(15,086)
NET CASH USED IN FINANCING ACTIVITIES	(28,979)	(75,376)	(24,190)
Net increase (decrease) in cash, cash equivalents and restricted cash	(77,785)	1,041	75,302
Cash, cash equivalents and restricted cash at beginning of year	197,648	196,607	121,305
Cash, cash equivalents and restricted cash at end of year	\$ 119,863	\$ 197,648	\$ 196,607

The accompanying notes are an integral part of these consolidated financial statements.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in thousands)	Common Stock	Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Loss	Noncontrolling Interests	Total
Balance - December 31, 2015	\$ 49,073	\$ 1,035,516	\$ 377,803	\$ (42,165)	\$ —	\$ 1,420,227
Net income	—	—	95,822	—	—	95,822
Other comprehensive loss	—	—	—	(3,248)	—	(3,248)
Tax effect of share-based compensation	—	(457)	—	—	—	(457)
Share-based compensation	—	13,423	—	—	—	13,423
Issuance of common stock, net	138	676	—	—	—	814
Convertible note proceeds allocated to conversion option, net	—	26,442	—	—	—	26,442
Balance - December 31, 2016	\$ 49,211	\$ 1,075,600	\$ 473,625	\$ (45,413)	\$ —	\$ 1,553,023
Net income	—	—	148,382	—	6,162	154,544
Other comprehensive income	—	—	—	2,695	—	2,695
Share-based compensation	—	20,877	—	—	—	20,877
Issuance of common stock, net	570	(12,272)	—	—	—	(11,702)
Contributions from noncontrolling interests	—	—	—	—	2,842	2,842
Distributions to noncontrolling interests	—	—	—	—	(17,499)	(17,499)
Balance - December 31, 2017	\$ 49,781	\$ 1,084,205	\$ 622,007	\$ (42,718)	\$ (8,495)	\$ 1,704,780
Cumulative effect of accounting change	—	—	(3,762)	—	(1,714)	(5,476)
Net income	—	—	83,436	—	14,345	97,781
Other comprehensive loss	—	—	—	(2,731)	(221)	(2,952)
Share-based compensation	—	21,544	—	—	—	21,544
Issuance of common stock, net	245	(2,830)	—	—	—	(2,585)
Contributions from noncontrolling interests	—	—	—	—	3,797	3,797
Distributions to noncontrolling interests	—	—	—	—	(29,000)	(29,000)
Balance - December 31, 2018	\$ 50,026	\$ 1,102,919	\$ 701,681	\$ (45,449)	\$ (21,288)	\$ 1,787,889

The accompanying notes are an integral part of these consolidated financial statements.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. Summary of Significant Accounting Policies

(a) Basis of Presentation

The accompanying consolidated financial statements have been prepared in compliance with generally accepted accounting principles in the United States ("GAAP") as codified in the Financial Accounting Standards Board's ("FASB") Accounting Standards Codification ("ASC").

(b) Principles of Consolidation

The consolidated financial statements include the accounts of Tutor Perini Corporation and its wholly owned subsidiaries (the "Company"). The Company occasionally forms joint ventures with unrelated third parties for the execution of single contracts or projects. The Company assesses its joint ventures at inception to determine if they meet the qualifications of a variable interest entity ("VIE") in accordance with ASC 810, *Consolidation* ("ASC 810"). If a joint venture is a VIE and the Company is the primary beneficiary, the joint venture is fully consolidated (See Note 13 below). For construction joint ventures that do not need to be consolidated, the Company accounts for its interest in the joint ventures using the proportionate consolidation method, whereby the Company's proportionate share of the joint ventures' assets, liabilities, revenue and cost of operations are included in the appropriate classifications in the Company's consolidated financial statements. Intercompany balances and transactions have been eliminated.

(c) Use of Estimates

The preparation of financial statements in accordance with GAAP requires management to make estimates and assumptions that affect reported amounts. These estimates are based on information available through the date of the issuance of the financial statements; therefore, actual results could differ from those estimates.

(d) Revenue Recognition

Implementation of New Revenue Recognition Guidance

In May 2014, the FASB issued Accounting Standards Update ("ASU") 2014-09, *Revenue from Contracts with Customers (Topic 606)*, as amended by subsequent ASUs (collectively, "ASC 606") which amends the existing accounting standards for revenue recognition and establishes principles for recognizing revenue upon the transfer of promised goods or services to customers based on the expected consideration to be received in exchange for those goods or services. The Company adopted this ASU effective January 1, 2018 using the modified retrospective transition method. The Company recognized the cumulative effect of initially applying the new revenue standard to all contracts not yet completed or substantially completed as of January 1, 2018 as an immaterial reduction to beginning retained earnings. The impact of adoption on the Company's opening balance sheet was primarily related to the deferral of costs incurred to fulfill certain contracts that were previously recorded in income in the period incurred, but under the new standard are capitalized and amortized over the period of contract performance. The prior year comparative information has not been restated and continues to be reported under the accounting standards in effect for those periods; however, certain balances have been reclassified to conform to the current year presentation.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The effect of the changes made to the Company's consolidated January 1, 2018 balance sheet for the adoption of ASC 606 were as follows:

BALANCE SHEET (in thousands)	Balance as of December 31, 2017^(a)	Adjustments due to ASC 606	Balance as of January 1, 2018
ASSETS			
Accounts receivable ^(b)	\$ 1,801,656	\$ (535,939)	\$ 1,265,717
Retainage receivable ^(b)	—	535,939	535,939
Other current assets	89,316	32,773	122,089
LIABILITIES			
Accounts payable ^(b)	\$ 961,791	\$ (261,820)	\$ 699,971
Retainage payable ^(b)	—	261,820	261,820
Billings in excess of costs and estimated earnings	456,869	39,785	496,654
Deferred income taxes	108,504	(1,537)	106,967
EQUITY			
Retained earnings	\$ 622,007	\$ (3,762)	\$ 618,245
Noncontrolling interests	(8,495)	(1,714)	(10,209)

(a) Balances as previously reported on the Company's Annual Report on Form 10-K for the year ended December 31, 2017.

(b) Prior to the adoption of ASC 606, retainage receivable and payable balances were included within accounts receivable and accounts payable, respectively.

In accordance with the new revenue standard requirements, the disclosure of the impacts of adoption on the Consolidated Statement of Income and Consolidated Balance Sheet were as follows:

STATEMENT OF INCOME (in thousands)	Year Ended December 31, 2018		
	As Reported	Balance Without Adoption of ASC 606	Effect of Change
REVENUE	\$ 4,454,662	\$ 4,458,668	\$ (4,006)
COST OF OPERATIONS	(4,000,209)	(4,003,959)	3,750
GROSS PROFIT	454,453	454,709	(256)
General and administrative expenses	(262,577)	(262,577)	—
INCOME FROM CONSTRUCTION OPERATIONS	191,876	192,132	(256)
Other income, net	4,256	4,256	—
Interest expense	(63,519)	(63,519)	—
INCOME BEFORE INCOME TAXES	132,613	132,869	(256)
Income tax (expense) benefit	(34,832)	(34,939)	107
NET INCOME	97,781	97,930	(149)
LESS: NET INCOME ATTRIBUTABLE TO NONCONTROLLING INTERESTS	14,345	14,212	133
NET INCOME ATTRIBUTABLE TO TUTOR PERINI CORPORATION	\$ 83,436	\$ 83,718	\$ (282)

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

BALANCE SHEET (in thousands)	As of December 31, 2018		
	As Reported	Balance Without Adoption of ASC 606	Effect of Change
ASSETS			
Accounts receivable ^(a)	\$ 1,261,072	\$ 1,735,414	\$ (474,342)
Retainage receivable ^(a)	478,744	—	478,744
Costs and estimated earnings in excess of billings	1,142,295	1,148,216	(5,921)
Other current assets	115,527	79,004	36,523
LIABILITIES			
Accounts payable ^(a)	\$ 621,728	\$ 833,684	\$ (211,956)
Retainage payable ^(a)	211,956	—	211,956
Billings in excess of costs and estimated earnings	573,190	530,918	42,272
Accrued expenses and other current liabilities	174,325	174,824	(499)
Deferred income taxes	105,521	106,665	(1,144)
EQUITY			
Retained earnings	\$ 701,681	\$ 705,725	\$ (4,044)
Noncontrolling interests	(21,288)	(19,707)	(1,581)

(a) Prior to the adoption of ASC 606, retainage receivable and payable balances were included within accounts receivable and payable, respectively.

The adoption of ASC 606 had no impact on the cash flows provided by operating activities in the Company's Consolidated Statement of Cash Flows.

Revenue Recognition Policy

The Company derives revenue from long-term construction contracts with public and private customers primarily in the United States and its territories and in certain other international locations. The Company's construction contracts are generally each accounted for as a single unit of account (i.e., as a single performance obligation).

Throughout the execution of construction contracts, the Company and its affiliated entities recognize revenue with the continuous transfer of control to the customer. The customer typically controls the asset under construction by either contractual termination clauses or by the Company's rights to payment for work already performed on the asset under construction that does not have an alternative use for the Company.

Because control transfers over time, revenue is recognized to the extent of progress towards completion of the performance obligations. The selection of the method to measure progress towards completion requires judgment and is based on the nature of the products or services provided. The Company generally uses the cost-to-cost method for its contracts, which measures progress towards completion for each performance obligation based on the ratio of costs incurred to date to the total estimated costs at completion for the respective performance obligation. Incurred cost represents work performed, which corresponds with, and thereby best depicts, the transfer of control to the customer. Revenue, including estimated fees or profits, is recorded proportionately as costs are incurred. Cost of operations includes labor, materials, subcontractor costs, and other direct and indirect costs, including depreciation and amortization.

Due to the nature of the work required to be performed on many of the Company's performance obligations, estimating total revenue and cost at completion is complex, subject to many variables and requires significant judgment. Assumptions as to the occurrence of future events and the likelihood and amount of variable consideration, including the impact of change orders, claims, contract disputes and the achievement of contractual performance criteria, and award or other incentive fees are made during the contract performance period. The Company estimates variable consideration at the most likely amount it expects to receive. The Company includes estimated amounts in the transaction price to the extent it is probable that a significant reversal of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is resolved. Estimates of variable consideration and determination of whether to include estimated amounts in the transaction price are based largely on an assessment of anticipated performance and all information (historical, current and forecasted) that is reasonably available to management.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

Changes in Estimates on Construction Contracts

The Company's estimates of contract revenue and cost are highly detailed and many factors change during a contract performance period that result in a change to contract profitability. These factors include, but are not limited to, differing site conditions; availability of skilled contract labor; performance of major material suppliers and subcontractors; on-going subcontractor negotiations and buyout provisions; unusual weather conditions; changes in the timing of scheduled work; change orders; accuracy of the original bid estimate; changes in estimated labor productivity and costs based on experience to date; achievement of incentive-based income targets; and the expected, or actual, resolution terms for claims. The factors that cause changes in estimates vary depending on the maturation of the project within its lifecycle. For example, in the ramp-up phase, these factors typically consist of revisions in anticipated project costs and during the peak and closeout phases, these factors include the impact of change orders and claims, as well as additional revisions in remaining anticipated project costs. Generally, if the contract is at an early stage of completion, the current period impact is smaller than if the same change in estimate is made to the contract at a later stage of completion. Management evaluates changes in estimates on a contract by contract basis and discloses significant changes, if material, in the Notes to the Consolidated Financial Statements. The cumulative catch-up method is used to account for revisions in estimates.

(e) Depreciation of Property and Equipment and Amortization of Long-Lived Intangible Assets

Property and equipment and long-lived intangible assets are generally depreciated or amortized on a straight-line basis over their estimated useful lives ranging from three to forty years.

(f) Recoverability of Long-Lived Assets

Long-lived assets are reviewed for impairment whenever circumstances indicate that the future cash flows generated by the assets might be less than the assets' net carrying value. In such circumstances, an impairment loss will be recognized by the amount the assets' net carrying value exceeds their fair value.

(g) Recoverability of Goodwill

The Company tests goodwill for impairment annually as of October 1 for each reporting unit and between annual tests if events occur or circumstances change which suggest that goodwill should be reevaluated. Such events or circumstances include significant changes in legal factors and business climate, recent losses at a reporting unit, and industry trends, among other factors. The Civil, Building and Specialty Contractors segments each represent a reporting unit. The Company performs its annual quantitative impairment assessment during the fourth quarter of each year using a weighted-average of an income and a market approach. The income approach is based on estimated present value of future cash flows for each reporting unit. The market approach is based on assumptions about how market data relates to each reporting unit. The weighting of these two approaches is based on their individual correlation to the economics of each reporting unit. The quantitative assessment performed in 2018 resulted in an estimated fair value for each of the Company's reporting units that exceeded their respective net book values; therefore, no impairment charge was necessary for 2018.

(h) Recoverability of Non-Amortizable Trade Names

Certain trade names have an estimated indefinite life and are not amortized to earnings, but instead are reviewed for impairment annually, or more often if events occur or circumstances change which suggest that the non-amortizable trade names should be reevaluated. The Company performs its annual quantitative impairment assessment during the fourth quarter of each year using an income approach (relief from royalty method). The quantitative assessment performed in 2018 resulted in an estimated fair value for the non-amortizable trade names that exceeded their respective net book values; therefore, no impairment charge was necessary for 2018.

(i) Income Taxes

Deferred income tax assets and liabilities are recognized for the effects of temporary differences between the financial statement carrying amounts and the income tax basis of assets and liabilities using tax rates expected to be in effect when such differences reverse. Income tax positions must meet a more-likely-than-not threshold to be recognized. The Company recognizes interest and penalties related to uncertain tax positions as a component of the income tax provision.

(j) Earnings Per Common Share (EPS)

Basic EPS and diluted EPS are calculated by dividing net income attributable to Tutor Perini Corporation by the following: for basic EPS, the weighted-average number of common shares outstanding during the period; and for diluted EPS, the sum of the weighted-

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

average number of both outstanding common shares and potentially dilutive securities, which for the Company can include restricted stock units, unexercised stock options and the Convertible Notes, as defined in Note 7. In accordance with ASC 260, *Earnings Per Share*, the settlement of the principal amount of the Convertible Notes has no impact on diluted EPS because the Company has the intent and ability to settle the principal amount in cash. The Company calculates the effect of the potentially dilutive restricted stock units and stock options using the treasury stock method.

(in thousands, except per common share data)	Year Ended December 31,		
	2018	2017	2016
Net income attributable to Tutor Perini Corporation	\$ 83,436	\$ 148,382	\$ 95,822
Weighted-average common shares outstanding, basic	49,952	49,647	49,150
Effect of dilutive restricted stock units and stock options	349	1,112	714
Weighted-average common shares outstanding, diluted	50,301	50,759	49,864
Net income attributable to Tutor Perini Corporation per common share:			
Basic	\$ 1.67	\$ 2.99	\$ 1.95
Diluted	\$ 1.66	\$ 2.92	\$ 1.92
Anti-dilutive securities not included above	2,670	798	1,132

(k) Cash, Cash Equivalents and Restricted Cash

The following table provides a reconciliation of cash, cash equivalents and restricted cash reported within the Consolidated Balance Sheets to the amounts shown in the Consolidated Statements of Cash Flows:

(in thousands)	As of December 31,	
	2018	2017
Cash and cash equivalents available for general corporate purposes	\$ 51,749	\$ 94,713
Joint venture cash and cash equivalents	64,326	98,155
Cash and cash equivalents	116,075	192,868
Restricted cash	3,788	4,780
Total cash, cash equivalents and restricted cash	\$ 119,863	\$ 197,648

Cash equivalents include short-term, highly liquid investments with maturities of three months or less when acquired. Cash and cash equivalents, consist of amounts available for the Company's general purposes, the Company's proportionate share of cash held by the Company's unconsolidated joint ventures and 100% of amounts held by the Company's consolidated joint ventures. In both cases, cash held by joint ventures is available only for joint venture-related uses, including future distributions to joint venture partners.

Amounts included in restricted cash are primarily held as collateral to secure insurance-related contingent obligations, such as insurance claim deductibles, in lieu of letters of credit.

(l) Restricted Investments

The Company has restricted investments primarily held as collateral to secure insurance-related contingent obligations, such as insurance claim deductibles, in lieu of letters of credit. Restricted investments are comprised of investments in corporate debt securities and U.S. government agency securities that are rated A3 or better.

(m) Share-Based Compensation

The Company's long-term incentive plans allow the Company to grant share-based compensation awards in a variety of forms, including restricted and unrestricted stock units and stock options. Restricted stock units and stock options generally vest subject to service and/or performance requirements, with related compensation expense equal to the fair value of the award on the date of grant and recognized on a straight-line basis over the requisite period.

For share-based awards that have a service requirement, the Company accounts for forfeitures upon occurrence, rather than estimating the probability of forfeiture at the date of grant. Accordingly, the Company recognizes the full grant-date fair value of these awards on a straight-line basis throughout the requisite service period, reversing any expense if, and only if, there is a forfeiture.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

For share-based awards that have a performance-based vesting requirement, the Company evaluates the probability of achieving the performance criteria throughout the performance period, and will adjust share-based compensation expense if it estimates that the achievement of the performance criteria is not probable. Certain performance-based awards contain market condition components and are valued on the date of grant using a Monte Carlo simulation model. The fair value of such awards is expensed ratably over the performance period and is not adjusted for actual achievement.

(n) Insurance Liabilities

The Company typically utilizes third-party insurance coverage subject to varying deductible levels with aggregate caps on losses retained. The Company assumes the risk for the amount of the deductible portion of the losses and liabilities primarily associated with workers' compensation and general liability coverage. In addition, on certain projects, the Company assumes the risk for the amount of the deductible portion of losses that arise from any subcontractor defaults. Losses are accrued based upon the Company's estimates of the aggregate liability for claims incurred using historical experience and certain actuarial assumptions followed in the insurance industry. The estimate of insurance liability within the deductible limits includes an estimate of incurred but not reported claims based on data compiled from historical experience.

(o) Other Comprehensive Income (Loss)

ASC 220, *Comprehensive Income*, establishes standards for reporting and displaying comprehensive income and its components in the consolidated financial statements. The Company reports the change in pension benefit plan assets/liabilities, cumulative foreign currency translation, change in fair value of investments and change in fair value of an interest rate swap as components of accumulated other comprehensive loss ("AOCI").

The tax effects of the components of other comprehensive income (loss) for are as follows:

	Year Ended December 31,								
	2018			2017			2016		
	Before-Tax Amount	Tax (Expense) Benefit	Net-of- Tax Amount	Before-Tax Amount	Tax (Expense) Benefit	Net-of- Tax Amount	Before-Tax Amount	Tax Benefit	Net-of- Tax Amount
(in thousands)									
Other comprehensive income (loss):									
Defined benefit pension plan adjustments	\$ 1,079	\$ (308)	\$ 771	\$ 2,416	\$ (992)	\$ 1,424	\$ (4,452)	\$ 1,829	\$ (2,623)
Foreign currency translation adjustment	(4,067)	1,122	(2,945)	2,159	(886)	1,273	(439)	178	(261)
Unrealized gain (loss) in fair value of investments	(1,005)	227	(778)	(4)	2	(2)	(576)	236	(340)
Unrealized gain (loss) in fair value of interest rate swap	—	—	—	—	—	—	(45)	21	(24)
Total other comprehensive income (loss)	\$ (3,993)	\$ 1,041	\$ (2,952)	\$ 4,571	\$ (1,876)	\$ 2,695	\$ (5,512)	\$ 2,264	\$ (3,248)
Less: Other comprehensive income (loss) attributable to noncontrolling interests ^(a)	(221)	—	(221)	—	—	—	—	—	—
Total other comprehensive income (loss) attributable to Tutor Perini Corporation	\$ (3,772)	\$ 1,041	\$ (2,731)	\$ 4,571	\$ (1,876)	\$ 2,695	\$ (5,512)	\$ 2,264	\$ (3,248)

(a) The only component of other comprehensive loss attributable to noncontrolling interests is foreign currency translation.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The changes in AOCI balances by component (after tax) attributable to Tutor Perini Corporation are as follows:

(in thousands)	Defined Benefit Pension Plan	Foreign Currency Translation	Unrealized Gain (Loss) in Fair Value of Investments	Unrealized Gain (Loss) in Fair Value of Interest Rate Swap	Accumulated Other Comprehensive Income (Loss)
Attributable to Tutor Perini Corporation:					
Balance as of December 31, 2015	\$ (38,242)	\$ (4,603)	\$ 656	\$ 24	\$ (42,165)
Other comprehensive loss before reclassifications	(3,722)	(261)	(340)	(24)	(4,347)
Amounts reclassified from AOCI	1,099	—	—	—	1,099
Balance as of December 31, 2016	\$ (40,865)	\$ (4,864)	\$ 316	\$ —	\$ (45,413)
Other comprehensive income (loss) before reclassifications	306	1,273	(2)	—	1,577
Amounts reclassified from AOCI	1,118	—	—	—	1,118
Balance as of December 31, 2017	\$ (39,441)	\$ (3,591)	\$ 314	\$ —	\$ (42,718)
Other comprehensive loss before reclassifications	(695)	(2,724)	(835)	—	(4,254)
Amounts reclassified from AOCI	1,466	—	57	—	1,523
Balance as of December 31, 2018	\$ (38,670)	\$ (6,315)	\$ (464)	\$ —	\$ (45,449)

(p) Recent Accounting Pronouncements

In addition to the implementation of ASC 606 as discussed in 1(d), new accounting pronouncements implemented by the Company during the year ended December 31, 2018 are discussed below.

In November 2016, the FASB issued ASU 2016-18, *Statement of Cash Flows (Topic 230): Restricted Cash*, which requires restricted cash to be included with cash and cash equivalent balances in the statement of cash flows. The Company retrospectively adopted this ASU on January 1, 2018. The adoption of this ASU resulted in an increase of net cash used in investing activities of \$45.7 million for the year ended December 31, 2017 and a decrease of net cash used in investing activities of \$4.7 million for the year ended December 31, 2016.

In January 2017, the FASB issued ASU 2017-04, *Intangibles—Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment* (“ASU 2017-04”). This ASU simplifies the calculation of goodwill impairment by eliminating Step 2 of the impairment test prescribed by ASC 350, *Intangibles—Goodwill and Other*. Step 2 requires companies to calculate the implied fair value of their goodwill by estimating the fair value of their assets, other than goodwill, and liabilities, including unrecognized assets and liabilities, following the procedure that would be required in determining the fair value of assets acquired and liabilities assumed in a business combination. The calculated net fair value of the assets would then be compared to the fair value of the reporting unit to determine the implied fair value of goodwill, and to the extent that the carrying value of goodwill was less than the implied fair value, a loss would be recognized. Under ASU 2017-04, however, goodwill is impaired when the calculated fair value of a reporting unit is less than its carrying value, and the impairment charge will equal that difference (i.e., impairment will be calculated at the reporting unit level and there will be no need to estimate the fair value of individual assets and liabilities). This guidance will be effective for any goodwill impairment tests performed in fiscal years beginning after December 15, 2019; however, early adoption is permitted for tests performed on testing dates after January 1, 2017. The Company adopted this ASU on October 1, 2018. The adoption of this ASU did not have a material impact on the Company’s consolidated financial statements.

In May 2017, the FASB issued ASU 2017-09, *Compensation—Stock Compensation (Topic 718): Scope of Modification Accounting*. This ASU clarifies the scope of modification accounting under Topic 718 with respect to changes to the terms or conditions of a share-based payment award. Under this new guidance, modification accounting would not apply if a change to an award does not affect the total current fair value, vesting conditions or the classification of the award. The Company adopted this ASU effective January 1, 2018. The adoption of this ASU did not have a material impact on the Company’s consolidated financial statements.

In February 2018, the FASB issued ASU 2018-02, *Income Statement—Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from the Accumulated Other Comprehensive Income*. This ASU gives entities the option to reclassify to retained earnings tax effects related to items in accumulated other comprehensive income that the FASB refers to as having been stranded in accumulated other comprehensive income as a result of tax reform. Entities can apply the provisions of this ASU either in the period of adoption or retrospectively. The guidance is effective for interim and annual reporting periods beginning after December 15, 2018, with early adoption permitted. The Company adopted this ASU effective October 1, 2018 and elected to not reclassify the income tax effects of the tax reform from accumulated other comprehensive income to retained earnings.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

In March 2018, the FASB issued ASU 2018-05, *Income Taxes (Topic 740): Amendments to SEC Paragraphs Pursuant to SEC Staff Accounting Bulletin No. 118* (“ASU 2018-05”). This ASU provides guidance for companies that may not have completed their accounting for the income tax effects of the Tax Cut and Jobs Act of 2017 (the “Tax Act”) in the period of enactment. Staff Accounting Bulletin (“SAB”) No. 118 provides for a provisional one year measurement period to finalize the accounting for certain income tax effects related to the Tax Act and requires disclosure of the reasons for incomplete accounting. The Company applied the guidance provided in SAB No. 118 in 2017 and adopted this ASU effective January 1, 2018. The adoption of this ASU did not have a material impact on the Company’s consolidated financial statements.

The following new accounting pronouncement will be implemented in 2019.

In February 2016, the FASB issued ASU 2016-02, *Leases (Topic 842)*, as amended and supplemented by subsequent ASUs (collectively, “ASU 2016-02”). ASU 2016-02 amends the existing guidance in ASC 840, *Leases*. This ASU requires, among other things, the recognition of lease right-of-use assets and lease liabilities by lessees for those leases currently classified as operating leases. ASU 2016-02 allows companies to adopt the new standard by applying either a modified retrospective method to the beginning of the earliest period presented in the financial statements or an optional transition method to initially apply the standard on January 1, 2019 and recognize a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. The Company will adopt the standard using the optional transition method. The Company has implemented changes to certain business processes, systems and internal controls to support adoption of the new standard and the related disclosure requirements, including the implementation of a third-party leasing software solution. Based on the Company’s evaluation of ASU 2016-02, the Company expects the adoption to result in an increase of approximately \$40 million to \$50 million to its assets and liabilities on the consolidated balance sheets with an immaterial impact to its consolidated statements of income or cash flows.

2. Consolidated Statements of Cash Flows

Below are the changes in other components of working capital, as shown in the Consolidated Statements of Cash Flows, and the supplemental disclosure of cash paid for interest and income taxes:

(in thousands)	Year Ended December 31,		
	2018	2017	2016
(Increase) Decrease in:			
Accounts receivable	\$ 3,899	\$ (91,062)	\$ (184,549)
Retainage receivable	56,754	33,453	(85,351)
Costs and estimated earnings in excess of billings	(209,537)	(100,932)	73,349
Other current assets	15,398	(19,718)	39,480
(Decrease) Increase in:			
Accounts payable	(78,243)	(35,751)	3,025
Retainage payable	(49,864)	3,526	53,527
Billings in excess of costs and estimated earnings	76,703	125,757	42,926
Accrued expenses and other current liabilities	28,046	24,513	(32,937)
Changes in other components of working capital	\$ (156,844)	\$ (60,214)	\$ (90,530)
Cash paid during the year for:			
Interest	\$ 51,063	\$ 50,443	\$ 47,403
Income taxes	\$ 13,652	\$ 39,776	\$ 26,908

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

3. Revenue

Disaggregation of Revenue

The following tables disaggregate revenue by end market, customer type and contract type, which the Company believes best depicts how the nature, amount, timing and uncertainty of its revenue and cash flows are affected by economic factors for the year ended December 31, 2018.

(in thousands)	Year Ended December 31, 2018	
Civil segment revenue by end market:		
Mass transit	\$	702,614
Bridges		431,202
Highways		202,423
Tunneling		103,980
Other		145,874
Total Civil segment revenue	\$	1,586,093

(in thousands)	Year Ended December 31, 2018	
Building segment revenue by end market:		
Health care facilities	\$	428,819
Commercial and industrial facilities		374,312
Hospitality and gaming		301,871
Municipal and government		261,496
Mixed use		150,549
Education facilities		145,147
Mass transit		67,588
Other		131,917
Total Building segment revenue	\$	1,861,699

(in thousands)	Year Ended December 31, 2018	
Specialty Contractors segment revenue by end market:		
Mass transit	\$	296,092
Commercial and industrial facilities		189,632
Mixed use		163,308
Education facilities		99,214
Transportation		83,551
Multi-unit residential		81,023
Health care facilities		52,392
Other		41,658
Total Specialty Contractors segment revenue	\$	1,006,870

(in thousands)	Year Ended December 31, 2018			
	Civil	Building	Specialty Contractors	Total
Revenue by customer type:				
State and local agencies	\$ 1,294,630	\$ 617,133	\$ 406,782	\$ 2,318,545
Federal agencies	95,567	201,745	53,335	350,647
Private owners	195,896	1,042,821	546,753	1,785,470
Total revenue	\$ 1,586,093	\$ 1,861,699	\$ 1,006,870	\$ 4,454,662

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

State and local agencies. The Company's state and local government customers include state transportation departments, metropolitan authorities, cities, municipal agencies, school districts and public universities. Services provided to state and local customers are primarily pursuant to contracts awarded through competitive bidding processes. Construction services for state and local government customers have included mass-transit systems, bridges, highways, judicial and correctional facilities, schools and dormitories, health care facilities, convention centers, parking structures and other municipal buildings. The vast majority of the Company's civil contracting and building construction services are provided in locations throughout the United States and its territories.

Federal agencies. The Company's federal government customers include the U.S. State Department, the U.S. Navy, the U.S. Army Corps of Engineers, the U.S. Air Force and the National Park Service. Services provided to federal agencies are typically pursuant to competitively bid contracts for specific or multi-year assignments that involve new construction or infrastructure repairs or improvements. A portion of revenue from federal agencies is derived from projects in overseas locations.

Private owners. The Company's private customers include real estate developers, health care companies, technology companies, hospitality and gaming resort owners, Native American sovereign nations, public corporations and private universities. Services are provided to private customers through negotiated contract arrangements, as well as through competitive bids.

Most federal, state and local government contracts contain provisions that permit the termination of contracts, in whole or in part, for the convenience of government customers, among other reasons.

(in thousands)	Year Ended December 31, 2018			
	Civil	Building	Specialty Contractors	Total
Revenue by contract type:				
Fixed price	\$ 1,054,473	\$ 377,538	\$ 857,742	\$ 2,289,753
Guaranteed maximum price	15,709	1,040,093	62,132	1,117,934
Unit price	469,305	32,468	32,562	534,335
Cost plus fee and other	46,606	411,600	54,434	512,640
Total revenue	\$ 1,586,093	\$ 1,861,699	\$ 1,006,870	\$ 4,454,662

Fixed price. Fixed price or lump sum contracts are most commonly used for projects in the Civil and Specialty Contractors segments and generally commit the Company to provide all of the resources required to complete a project for a fixed sum. Usually, fixed price contracts transfer more risk to the Company, but offer the opportunity for greater profits. Billings on fixed price contracts are typically based on estimated progress against predetermined contractual milestones.

Guaranteed maximum price ("GMP"). GMP contracts provide for a cost plus fee arrangement up to a maximum agreed upon price. These contracts place risks on the Company for amounts in excess of the GMP, but may permit an opportunity for greater profits than under cost plus fee contracts through sharing agreements with the owner on any cost savings that may be realized. Services provided by our Building segment to various private customers are often performed under GMP contracts. Billings on GMP contracts typically occur on a monthly basis and are based on actual costs incurred plus a negotiated margin.

Unit price. Unit price contracts are most prevalent for projects in the Civil and Specialty Contractors segments and generally commit the Company to provide an estimated or undetermined number of units or components that comprise a project at a fixed price per unit. This approach shifts the risk of estimating the quantity of units required to the project owner, but the risk of increased cost per unit is borne by the Company, unless otherwise allowed for in the contract. Billings on unit price contracts typically occur on a monthly basis and are based on actual quantity of work performed or completed during the billing period.

Cost plus fee. Cost plus fee contracts are used for many projects in the Building and Specialty Contractors segments. Cost plus fee contracts include cost plus fixed fee contracts and cost plus award fee contracts. Cost plus fixed fee contracts provide for reimbursement of approved project costs plus a fixed fee. Cost plus award fee contracts provide for reimbursement of the project costs plus a base fee, as well as an incentive fee based on cost and/or schedule performance. Cost plus fee contracts serve to minimize the Company's financial risk, but may also limit profits. Billings on cost plus fee contracts typically occur on a monthly basis based on actual costs incurred plus a negotiated margin.

Changes in Contract Estimates that Impact Revenue

Changes to the total estimated contract revenue or cost, either due to unexpected events or revisions to management's initial estimates, for a given project are recognized in the period in which they are determined. Net revenue recognized during the year ended

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

December 31, 2018 related to performance obligations satisfied (or partially satisfied) in prior periods was \$19.4 million for various projects, none of which was individually material.

Remaining Performance Obligations

Remaining performance obligations represent the transaction price of firm orders for which work has not been performed and exclude unexercised contract options. As of December 31, 2018, the aggregate amounts of the transaction prices allocated to the remaining performance obligations of the Company's construction contracts are \$4.6 billion, \$2.3 billion and \$1.7 billion for the Civil, Building and Specialty Contractors segments, respectively. The Company typically recognizes revenue on Civil segment projects over a period of three to five years, whereas for projects in the Building and Specialty Contractors segments, the Company typically recognizes revenue over a period of one to three years.

4. Contract Assets and Liabilities

Contract assets include amounts due under retainage provisions, costs and estimated earnings in excess of billings and capitalized contract costs. The amounts as included on the Consolidated Balance Sheets consist of the following:

(in thousands)	As of December 31, 2018	As of January 1, 2018
Retainage receivable	\$ 478,744	\$ 535,939
Costs and estimated earnings in excess of billings:		
Claims	698,274	549,849
Unapproved change orders	354,000	296,591
Other unbilled costs and profits	90,021	86,318
Total costs and estimated earnings in excess of billings	1,142,295	932,758
Capitalized contract costs	37,404	32,773
Total contract assets	\$ 1,658,443	\$ 1,501,470

Retainage receivable represents amounts invoiced to customers where payments have been partially withheld pending the completion of certain milestones, satisfaction of other contractual conditions or the completion of the project. Retainage agreements vary from project to project and balances could be outstanding for several months or years depending on a number of circumstances, such as contract-specific terms, project performance and other variables that may arise as the Company makes progress towards completion. As of December 31, 2018, the amount of retainage receivables estimated by management to be collected or remitted beyond one year is approximately 29% of the balance.

Costs and estimated earnings in excess of billings represent the excess of contract costs and profits (or contract revenue) over the amount of contract billings to date and are classified as a current asset. Costs and estimated earnings in excess of billings result when either: 1) the appropriate contract revenue amount has been recognized over time in accordance with ASC 606, but a portion of the revenue recorded cannot be billed currently due to the billing terms defined in the contract, or 2) costs are incurred related to certain claims and unapproved change orders. Claims occur when there is a dispute regarding both a change in the scope of work and the price associated with that change. Unapproved change orders occur when a change in the scope of work results in additional work being performed before the parties have agreed on the corresponding change in the contract price. The Company routinely estimates recovery related to claims and unapproved change orders as a form of variable consideration at the most likely amount it expects to receive and to the extent it is probable that a significant reversal of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is resolved. Claims and unapproved change orders are billable upon the agreement and resolution between the contractual parties and after the execution of contractual amendments. Increases in claims and unapproved change orders typically result from costs being incurred against existing or new positions; decreases normally result from resolutions and subsequent billings. As discussed in Note 8, the resolution of these claims and unapproved change orders may require litigation or other forms of dispute resolution proceedings. Other unbilled costs and profits are billable in accordance with the billing terms of each of the existing contractual arrangements and, as such, the timing of contract billing cycles can cause fluctuations in the balance of unbilled costs and profits. Ultimate resolution of other unbilled costs and profits typically involves incremental progress toward contractual requirements or milestones. The amount of costs and estimated earnings in excess of billings as of December 31, 2018 estimated by management to be collected beyond one year is approximately \$529.3 million.

Capitalized contract costs primarily represent costs to fulfill a contract that (1) directly relate to an existing or anticipated contract, (2) generate or enhance resources that will be used in satisfying performance obligations in the future and (3) are expected to be recovered through the contract, and are included in other current assets. Capitalized contract costs are generally expensed to the associated

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

contract over the period of anticipated use on the project. During the year ended December 31, 2018, \$16.3 million of previously capitalized contract costs were amortized and recognized as expense on the related contracts.

Contract liabilities include amounts owed under retainage provisions and billings in excess of costs and estimated earnings. The amount as reported on the Consolidated Balance Sheets consists of the following:

(in thousands)	As of December 31,		As of January 1,	
	2018		2018	
Retainage payable	\$	211,956	\$	261,820
Billings in excess of costs and estimated earnings		573,190		496,654
Total contract liabilities	\$	785,146	\$	758,474

Retainage payable represents amounts invoiced to the Company by subcontractors where payments have been partially withheld pending the completion of certain milestones, other contractual conditions or upon the completion of the project. Generally, retainage payable is not remitted to subcontractors until the associated retainage receivable from customers is collected. As of December 31, 2018, the amount of retainage payables estimated by management to be collected or remitted beyond one year is approximately 24% of the balance.

Billings in excess of costs and estimated earnings represent the excess of contract billings to date over the amount of contract costs and profits (or contract revenue) recognized to date. The balance may fluctuate depending on the timing of contract billings and the recognition of contract revenue. Revenue recognized during the year ended December 31, 2018 and included in the opening billings in excess of costs and estimated earnings balances totaled \$382.7 million.

5. Income Taxes

Income before taxes is summarized as follows:

(in thousands)	Year Ended December 31,		
	2018	2017	2016
United States operations	\$ 106,222	\$ 135,177	\$ 128,072
Foreign and U.S. territory operations	26,391	18,798	21,043
Total	\$ 132,613	\$ 153,975	\$ 149,115

The income tax expense (benefit) is as follows:

(in thousands)	Year Ended December 31,		
	2018	2017	2016
Current expense:			
Federal	\$ 21,055	\$ 12,329	\$ 43,850
State	8,676	6,763	13,039
Foreign and U.S. territories	5,550	3,435	6,573
Total current expense	35,281	22,527	63,462
Deferred expense (benefit):			
Federal	(1,773)	(30,021)	(3,054)
State	1,278	5,560	(5,302)
Foreign and U.S. territories	46	1,365	(1,813)
Total deferred expense (benefit)	(449)	(23,096)	(10,169)
Total expense (benefit)	\$ 34,832	\$ (569)	\$ 53,293

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The following table is a reconciliation of the Company's income tax provision at the statutory rates to the income tax expense (benefit) at the Company's effective rate:

(dollars in thousands)	Year Ended December 31,					
	2018		2017		2016	
	Amount	Rate	Amount	Rate	Amount	Rate
Federal income tax expense at statutory tax rate	\$ 27,849	21.0 %	\$ 53,892	35.0 %	\$ 52,190	35.0 %
State income taxes, net of federal tax benefit	9,011	6.8	7,753	5.0	4,614	3.1
Impact of federal tax law change	211	0.2	(53,348)	(34.6)	—	—
Officers' compensation	3,078	2.3	2,622	1.7	3,807	2.6
Domestic production activities deduction	—	—	(2,668)	(1.7)	(4,018)	(2.7)
Noncontrolling interest	(3,232)	(2.4)	(2,137)	(1.4)	—	—
Federal R&D credits	(2,658)	(2.0)	(470)	(0.4)	(669)	(0.5)
Reversal of reserve for uncertain tax positions and taxes payable due to statute expirations	(1,958)	(1.5)	(4,337)	(2.8)	—	—
Other	2,531	1.9	(1,876)	(1.2)	(2,631)	(1.8)
Income tax expense (benefit)	\$ 34,832	26.3 %	\$ (569)	(0.4) %	\$ 53,293	35.7 %

On December 22, 2017, the U.S. government enacted the TCJA which made broad and complex changes to the U.S. tax code that impact the Company's financial statements, including, but not limited to, a permanent decrease in the corporate federal statutory income tax rate from 35% to 21%, effective January 1, 2018, and a one-time transition tax from the inclusion of foreign earnings. Future distributions from foreign subsidiaries, however, are no longer subject to federal income tax.

As a result of the TCJA, the Company recognized an income tax benefit of \$53.3 million in 2017, primarily due to the remeasurement of deferred tax assets and liabilities based on the reduced corporate federal statutory income tax rate of 21%.

In accordance with ASU 2018-05, the Company recorded a provisional amount for its one-time transition tax liability in 2017 which was not material. As of December 31, 2018 the Company has completed the accounting for the impacts of the TCJA and there were no material changes to the provisional amounts recorded in 2017.

The following is a summary of the significant components of the deferred tax assets and liabilities:

(in thousands)	As of December 31,	
	2018	2017
Deferred tax assets:		
Timing of expense recognition	\$ 20,832	\$ 22,730
Net operating losses	8,611	8,590
Other, net	18,828	15,618
Deferred tax assets	48,271	46,938
Valuation allowance	(1,150)	(381)
Net deferred tax assets	47,121	46,557
Deferred tax liabilities:		
Intangible assets, due primarily to purchase accounting	(36,862)	(30,019)
Fixed assets, due primarily to purchase accounting	(75,998)	(73,833)
Construction contract accounting	(9,435)	(17,539)
Joint ventures	(9,853)	(11,343)
Other	(20,411)	(22,263)
Deferred tax liabilities	(152,559)	(154,997)
Net deferred tax liabilities	\$ (105,438)	\$ (108,440)

The Company had net operating loss carryforwards in various state tax jurisdictions totaling approximately \$93.9 million as of December 31, 2018, with expiration dates ranging from 2020 to 2035.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The net deferred tax liabilities are presented in the Consolidated Balance Sheets as follows:

(in thousands)	As of December 31,	
	2018	2017
Deferred tax assets	\$ 83	\$ 64
Deferred tax liabilities	(105,521)	(108,504)
Net deferred tax liabilities	\$ (105,438)	\$ (108,440)

Prior to 2017, the Company did not provide for deferred income taxes or foreign withholding tax on basis differences in its non-U.S. subsidiaries that result from undistributed earnings which the Company had the intent and the ability to reinvest in its foreign operations. Due to the enactment of the TCJA, the Company no longer intends to permanently reinvest in its foreign subsidiaries.

The Company's policy is to record interest and penalties on unrecognized tax benefits as an element of income tax expense. The cumulative amounts related to interest and penalties are added to the total unrecognized tax liabilities on the balance sheet. The total amount of gross unrecognized tax benefits as of December 31, 2018 that, if recognized, would affect the effective tax rate is \$5.0 million. During 2018, the Company recognized a net decrease of \$1.5 million in liabilities. The amount of gross unrecognized tax benefits as of December 31, 2017 was \$6.5 million. During 2017, the Company recognized a net decrease of \$1.1 million in liabilities. The amount of gross unrecognized tax benefits as of December 31, 2016 was \$7.6 million. During 2016, the Company recognized a net increase of \$4.0 million in liabilities. The Company does not expect any significant release of unrecognized tax benefits within the next twelve months.

The Company accounts for its uncertain tax positions in accordance with GAAP. The following is a reconciliation of the beginning and ending amounts of these tax benefits for the three years ended December 31, 2018:

(in thousands)	As of December 31,		
	2018	2017	2016
Beginning balance	\$ 6,495	\$ 7,574	\$ 3,612
Change in tax positions of prior years	(302)	(1,207)	3,543
Change in tax positions of current year	763	128	419
Reduction in tax positions for statute expirations	(1,958)	—	—
Ending Balance	\$ 4,998	\$ 6,495	\$ 7,574

The Company conducts business internationally and, as a result, one or more of its subsidiaries files income tax returns in U.S. federal, U.S. state and certain foreign jurisdictions. Accordingly, in the normal course of business, the Company is subject to examination by taxing authorities principally throughout the United States, Guam and Canada. The Company is no longer subject to examination by the taxing authority regarding any U.S. federal income tax returns for years before 2014 while the years open for examination under certain state and local jurisdictions vary.

6. Goodwill and Other Intangible Assets

As of December 31, 2018, 2017 and 2016, the Company had \$585.0 million of goodwill allocated to its reporting units as follows: Civil, \$415.3 million; Building, \$13.5 million; and Specialty Contractors, \$156.2 million. The balances presented include historical accumulated impairment of \$76.7 million for the Civil reporting unit and \$411.3 million for the Building reporting unit.

In addition, as of December 31, 2018 and 2017, the Company had the following: (1) non-amortizable trade names with a carrying value of \$50.4 million; (2) amortizable trade names with a gross carrying value of \$51.1 million and accumulated amortization as of December 31, 2018 and 2017 of \$18.8 million and \$16.3 million, respectively; and (3) amortizable customer relationships with a gross carrying value of \$23.2 million and accumulated amortization as of December 31, 2018 and 2017 of \$20.0 million and \$18.9 million, respectively.

Amortization expense related to amortizable intangible assets was \$3.5 million for each of the years ended December 31, 2018, 2017 and 2016. Future amortization expense related to amortizable intangible assets will be approximately \$3.5 million per year for the years 2019 through 2021, \$2.6 million for the year 2022 and \$2.5 million for the year 2023.

The weighted-average amortization period for amortizable trade names and customer relationships is 20 years and 12 years, respectively.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

7. Financial Commitments

Long-Term Debt

Long-term debt consisted of the following as of the dates of the Consolidated Balance Sheets presented:

(in thousands)	As of December 31,	
	2018	2017
2017 Senior Notes	\$ 493,521	\$ 492,734
Convertible Notes	171,481	161,635
2017 Credit Facility	41,000	—
Equipment financing and mortgages	50,904	76,820
Other indebtedness	4,598	5,087
Total debt	761,504	736,276
Less: Current maturities	16,767	30,748
Long-term debt, net	\$ 744,737	\$ 705,528

The following table reconciles the outstanding debt balance to the reported debt balances as of December 31, 2018 and 2017:

(in thousands)	As of December 31, 2018			As of December 31, 2017		
	Outstanding Long-Term Debt	Unamortized Discount and Issuance Costs	Long-Term Debt, as reported	Outstanding Long-Term Debt	Unamortized Discounts and Issuance Costs	Long-Term Debt, as reported
2017 Senior Notes	\$ 500,000	\$ (6,479)	\$ 493,521	\$ 500,000	\$ (7,266)	\$ 492,734
Convertible Notes	200,000	(28,519)	171,481	200,000	(38,365)	161,635

The unamortized issuance costs related to the 2017 Credit Facility were \$4.8 million and \$6.2 million as of December 31, 2018 and 2017, respectively, and are included in other assets in the Consolidated Balance Sheets.

2017 Senior Notes

On April 20, 2017, the Company issued \$500 million in aggregate principal amount of 6.875% Senior Notes due 2025 (the “2017 Senior Notes”) in a private placement offering. Interest on the 2017 Senior Notes is payable in arrears semi-annually in May and November of each year, beginning in November 2017.

Prior to May 1, 2020, the Company may redeem the 2017 Senior Notes at a redemption price equal to 100% of their principal amount plus a “make-whole” premium described in the indenture. In addition, prior to May 1, 2020, the Company may redeem up to 40% of the original aggregate principal amount of the notes at a redemption price of 106.875% of their principal amount with the proceeds received by the Company from any offering of the Company’s equity. After May 1, 2020, the Company may redeem the 2017 Senior Notes at specified redemption prices described in the indenture. Upon a change of control, holders of the 2017 Senior Notes may require the Company to repurchase all or part of the 2017 Senior Notes at 101% of the principal amount thereof, plus accrued and unpaid interest to the redemption date.

The 2017 Senior Notes are senior unsecured obligations of the Company and are guaranteed by substantially all of the Company’s existing and future subsidiaries that also guarantee obligations under the Company’s 2017 Credit Facility, as defined below. In addition, the indenture for the 2017 Senior Notes provides for customary covenants, including events of default and restrictions on the payment of dividends and share repurchases.

2017 Credit Facility

On April 20, 2017, the Company entered into a credit agreement (the “2017 Credit Facility”) with SunTrust Bank as Administrative Agent, Swing Line Lender and L/C Issuer and a syndicate of other lenders. The 2017 Credit Facility provides for a \$350 million revolving credit facility (the “2017 Revolver”) and a sublimit for the issuance of letters of credit and swingline loans up to the aggregate amount of \$150 million and \$10 million, respectively, both maturing on April 20, 2022, unless any of the Convertible Notes, as defined below, are outstanding on December 17, 2020, in which case all such borrowings will mature on December 17, 2020 (subject to certain further exceptions). In addition, the 2017 Credit Facility permits additional borrowings in an aggregate amount of \$150 million, which can be in the form of increased capacity on the 2017 Revolver or the establishment of one or more term loans.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

Borrowings under the 2017 Revolver bear interest, at the Company's option, at a rate equal to (a) the London Interbank Offered Rate ("LIBOR") plus a margin of between 1.50% and 3.00% or (b) a base rate (determined by reference to the highest of (i) the administrative agent's prime lending rate, (ii) the federal funds effective rate plus 50 basis points, (iii) the LIBOR rate for a one-month interest period plus 100 basis points and (iv) 0%), plus a margin of between 0.50% and 2.00%, in each case based on the Consolidated Leverage Ratio (as defined in the 2017 Credit Facility). In addition to paying interest on outstanding principal under the 2017 Credit Facility, the Company will pay a commitment fee to the lenders under the 2017 Revolver in respect of the unutilized commitments thereunder. The Company will pay customary letter of credit fees. If an event of default occurs and is continuing, the otherwise applicable margin and letter of credit fees will be increased by 2% per annum. The weighted-average annual interest rate on borrowings under the 2017 Revolver was approximately 4.77% during the year ended December 31, 2018.

The 2017 Credit Facility contains customary covenants for credit facilities of this type, including maximum consolidated leverage ratios ranging from 4.00:1.00 to 3.25:1.00 over the life of the facility and a minimum consolidated fixed charge coverage ratio of 1.25:1.00. Substantially all of the Company's subsidiaries unconditionally guarantee the obligations of the Company under the 2017 Credit Facility; additionally, the obligations are secured by a lien on all personal property of the Company and its subsidiaries guaranteeing these obligations.

As of December 31, 2018, there was \$309 million available under the 2017 Revolver, and the Company had not utilized the 2017 Credit Facility for letters of credit. The Company was in compliance with the financial covenants under the 2017 Credit Facility as of December 31, 2018.

Repurchase and Redemption of Notes and Termination of Credit Facility

On April 20, 2017, the Company used proceeds from the 2017 Senior Notes and 2017 Revolver to repurchase or redeem its previously outstanding senior notes (\$300 million of 7.625% Senior Notes due November 1, 2018), to pay off and terminate its previous credit facility (\$300 million revolving credit facility and a \$250 million term loan, both maturing on May 1, 2018), and to pay accrued but unpaid interest and fees.

Convertible Notes

On June 15, 2016, the Company issued \$200 million of 2.875% Convertible Senior Notes due June 15, 2021 (the "Convertible Notes") in a private placement offering. The Convertible Notes are unsecured obligations and do not contain any financial covenants or restrictions on the payments of dividends, the incurrence of indebtedness or the issuance or repurchase of securities by the Company. The Convertible Notes bear interest at a rate of 2.875% per year, payable in cash semi-annually in June and December.

To account for the Convertible Notes, the Company applied the provisions of ASC 470-20, *Debt with Conversion and Other Options* ("ASC 470-20"). ASC 470-20 requires issuers of certain convertible debt instruments that may be settled in cash upon conversion to separately account for the liability (debt) and equity (conversion option) components of the instrument in a manner that reflects the issuer's nonconvertible debt borrowing rate. This is done by allocating the proceeds from issuance to the liability component based on the fair value of the debt instrument excluding the conversion feature, with the residual allocated to the equity component and classified in additional paid in capital. The \$46.8 million difference between the principal amount of the Convertible Notes (\$200.0 million) and the proceeds initially allocated to the liability component (\$153.2 million) is treated as a discount on the Convertible Notes. This difference is being amortized as non-cash interest expense using the interest method, as shown below under *Interest Expense*. The equity component, however, is not subject to amortization nor subsequent remeasurement.

In addition, ASC 470-20 requires that the debt issuance costs associated with a convertible debt instrument be allocated between the liability and equity components in proportion to the allocation of the debt proceeds between these two components. The debt issuance costs attributable to the liability component of the Convertible Notes (\$5.1 million) are also treated as a discount on the Convertible Notes and amortized as non-cash interest expense. The debt issuance costs attributable to the equity component (\$1.5 million) were netted with the equity component and are not amortized.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The following table presents information related to the liability and equity components of the Convertible Notes:

(in thousands)	December 31, 2018	December 31, 2017
Liability component:		
Principal	\$ 200,000	\$ 200,000
Conversion feature	(46,800)	(46,800)
Allocated debt issuance costs	(5,051)	(5,051)
Amortization of discount and debt issuance costs (non-cash interest expense)	23,332	13,486
Net carrying amount	\$ 171,481	\$ 161,635
Equity component:		
Conversion feature	\$ 46,800	\$ 46,800
Allocated debt issuance costs	(1,543)	(1,543)
Deferred taxes	(18,815)	(18,815)
Net carrying amount	\$ 26,442	\$ 26,442

Prior to January 15, 2021, the Convertible Notes will be convertible only under the following circumstances: (1) during the five business day period after any ten consecutive trading day period in which the trading price per \$1,000 principal amount of Convertible Notes for such trading day was less than 98% of the product of the last reported sale price of the Company's common stock and the conversion rate on each such trading day; (2) if the last reported sale price of the common stock for at least 20 trading days (whether or not consecutive) during a period of 30 consecutive trading days ending on the last trading day of the immediately preceding calendar quarter is greater than or equal to 130% of the conversion rate of 33.0579 (or \$39.32) on each applicable trading day; or (3) upon the occurrence of specified corporate events. On or after January 15, 2021 until the close of business on the second scheduled trading day immediately preceding the maturity date, holders may convert all or any portion of their notes, in multiples of \$1,000 principal amount, at the option of the holder regardless of the foregoing circumstances.

The Convertible Notes will be convertible at an initial conversion rate of 33.0579 shares of the Company's common stock per \$1,000 principal amount of the Convertible Notes, which is equivalent to an initial conversion price of approximately \$30.25. The conversion rate will be subject to adjustment for some events but will not be adjusted for any accrued and unpaid interest. In addition, following certain corporate events that occur prior to the maturity date, the Company is required to increase, in certain circumstances, the conversion rate for a holder who elects to convert their Convertible Notes in connection with such a corporate event including customary conversion rate adjustments in connection with a "make-whole fundamental change" described in the indenture. Upon conversion, and at the Company's election, the Company may satisfy its conversion obligation with cash, shares of its common stock or a combination thereof. As of December 31, 2018, the conversion provisions of the Convertible Notes have not been triggered.

Equipment Financing and Mortgages

The Company has certain loans entered into for the purchase of specific property, plant and equipment and secured by the assets purchased. The aggregate balance of equipment financing loans was approximately \$38.6 million and \$61.1 million at December 31, 2018 and 2017, respectively, with interest rates ranging from 2.19% to 3.38% with equal monthly installment payments over periods up to ten years with additional balloon payments of \$12.4 million in 2021 and \$6.3 million in 2022 on the remaining loans outstanding at December 31, 2018. The aggregate balance of mortgage loans was approximately \$12.3 million and \$15.7 million at December 31, 2018 and 2017, respectively, with interest rates ranging from a fixed 3.50% to LIBOR plus 3% and equal monthly installment payments over periods up to ten years with additional balloon payments of \$2.9 million in 2021 and \$7.0 million in 2023.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The following table presents the future principal payments required under all of the Company's debt obligations, discussed above:

Year (in thousands)	
2019	\$ 16,817
2020	46,275
2021	218,875
2022	7,457
2023	7,078
Thereafter	500,000
	796,502
Less: Unamortized discount and issuance costs	(34,998)
Total	\$ 761,504

Interest Expense

Interest expense as reported in the Consolidated Statements of Income consists of the following:

(in thousands)	For the year ended December 31,		
	2018	2017	2016
Cash interest expense:			
Interest on 2017 Senior Notes	\$ 34,375	\$ 23,967	\$ —
Interest on 2017 Credit Facility	8,575	5,517	—
Interest on Convertible Notes	5,750	5,750	3,115
Interest on 2010 Senior Notes	—	6,926	22,875
Interest on 2014 Credit Facility	—	4,455	19,201
Other interest	2,747	3,261	3,623
Cash portion of loss on extinguishment	—	1,913	—
Total cash interest expense	51,447	51,789	48,814
Non-cash interest expense^(a):			
Amortization of discount and debt issuance costs on Convertible Notes	9,846	8,967	4,519
Amortization of debt issuance costs on 2017 Credit Facility	1,439	962	—
Amortization of debt issuance costs on 2017 Senior Notes	787	516	—
Amortization of debt issuance costs on 2014 Credit Facility	—	1,703	5,447
Amortization of discount and debt issuance costs on 2010 Senior Notes	—	308	1,002
Non-cash portion of loss on extinguishment	—	5,139	—
Total non-cash interest expense	12,072	17,595	10,968
Total interest expense	\$ 63,519	\$ 69,384	\$ 59,782

- (a) The combination of cash and non-cash interest expense produces effective interest rates that are higher than contractual rates. Accordingly, the effective interest rates for the 2017 Senior Notes and the Convertible Notes were 7.13% and 9.39%, respectively, for the year ended December 31, 2018.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

Leases

The Company leases certain construction equipment and office space under non-cancellable operating leases, with future minimum rent payments as of December 31, 2018 as follows:

Year (in thousands)	
2019	\$ 14,039
2020	10,706
2021	7,464
2022	6,567
2023	5,587
Thereafter	11,662
	56,025
Less: Sublease rental agreements	(1,398)
Total	\$ 54,627

Rental expense under operating leases of construction equipment, vehicles and office space was \$24.3 million in 2018, \$27.4 million in 2017 and \$28.2 million in 2016.

8. Commitments and Contingencies

The Company and certain of its subsidiaries are involved in litigation and various forms of dispute resolution, and are contingently liable for commitments and performance guarantees arising in the ordinary course of business. In addition, other activities inherent to the Company's business may result in litigation or dispute resolution proceedings when there is a disagreement regarding a change in the scope of work and/or the price associated with that change. In accordance with ASC 606, the Company makes assessments of these types of disputes on a routine basis and estimates and records recovery related to these disputes at the most likely amount it expects to receive, as discussed further in Note 1(d) and Note 4. These assessments require judgments concerning matters such as litigation developments and outcomes, the anticipated outcome of negotiations and the estimated cost of resolving such disputes. In addition, because most contingencies are resolved over long periods of time, assets and liabilities may change in the future due to various factors. Management believes that, based on current information and discussions with the Company's legal counsel, the ultimate resolution of these matters is not expected to have a material adverse effect on the Company's financial position, results of operations or cash flows.

Several matters are in the litigation and dispute resolution processes that include characteristics which management consider to be other than ordinary routine contract performance related issues. The following discussion provides a background and current status of such material matters.

Long Island Expressway/Cross Island Parkway Matter

The Company reconstructed the Long Island Expressway/Cross Island Parkway Interchange ("LIE" Project) for the New York State Department of Transportation ("NYSDOT"). The \$130 million project was substantially complete in January 2004 and was accepted by NYSDOT as complete in February 2006. The Company incurred significant added costs in completing its work and suffered extended schedule costs due to numerous design errors, undisclosed utility conflicts, lack of coordination with local agencies and other interferences for which the Company believes NYSDOT is responsible.

In March 2011, the Company opened a case with the New York State Court of Claims against NYSDOT related to the LIE Project. In May 2011, NYSDOT filed a motion to dismiss the Company's claim on the grounds that the Company had not provided required documentation for project closeout and filing of a claim. In September 2011, the Company reached agreement on final payment with the Comptroller's Office on behalf of NYSDOT, which resulted in an amount of \$0.5 million payable to the Company and formally closed out the project allowing the Company to re-file its claim. In March 2012, the Company filed its formal Verified Claim seeking \$50.7 million in damages. In May 2012, NYSDOT served its answer and asserted counterclaims in the amount of \$151 million alleging fraud in the inducement and punitive damages related to alleged violations of the disadvantaged business enterprise ("DBE") requirements for the project. The Court subsequently ruled that NYSDOT's counterclaims may only be asserted as a defense and offset to the Company's claims and not as affirmative claims. In November 2014, the Appellate Division First Department affirmed the dismissal of NYSDOT's affirmative counterclaims. In June 2018, following additional summary judgment motions, the Court granted the Company's motion to dismiss NYSDOT's affirmative defenses, which eliminated the use of NYSDOT's counterclaim of \$151 million as a defense to the claims of the Company. In October 2018, NYSDOT filed a notice of appeal. A trial date for the appeal has not been set.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

Management has made an estimate of the total anticipated recovery on this project, and such estimate is included in revenue recorded to date. To the extent new facts become known or the final recovery included in the claim settlement varies from the estimate, the impact of the change will be reflected in the consolidated financial statements at that time.

Fontainebleau Matter

Desert Mechanical, Inc. (“DMI”) and Fisk Electric Company (“Fisk”), wholly owned subsidiaries of the Company, were subcontractors on the Fontainebleau project located in Las Vegas, Nevada, a hotel/casino complex with approximately 3,800 rooms (the “Project”). In June 2009, the owners of the Project filed for bankruptcy protection, under Chapter 11 of the U.S. Bankruptcy Code, in the Southern District of Florida.

DMI and Fisk recorded mechanic’s liens against the Project totaling approximately \$44 million, for unpaid labor, materials and equipment it furnished to the Project. Other unaffiliated contractors, subcontractors and suppliers also recorded mechanic’s liens against the Project, subjecting the property to approximately \$550 million in total lien claims by the various lien claimants who furnished labor, materials and equipment to the Project (the “Statutory Lienholders”). In June 2009, DMI filed suit against Turnberry West Construction, Inc., the general contractor, in the Eighth Judicial District Court, Clark County, Nevada, and in May 2010, the court entered an order in favor of DMI for approximately \$45 million.

In January 2010, the Bankruptcy Court approved the sale of the Property to Icahn Nevada Gaming Acquisition, LLC for approximately \$150 million. Certain Project lenders (the “Lenders”) who had recorded deeds of trust as security interests in the property which far exceeded the sale proceeds, filed suit against the Statutory Lienholders, including DMI and Fisk, alleging that all mechanic’s liens were subordinate to the Lenders’ deeds of trust against the property. The Nevada Supreme Court ruled in October 2012 that under Nevada Law, the mechanic’s lien claims had priority over a portion of the deeds of trust, but not all of them.

In October 2013, a comprehensive settlement agreement was reached by and among the Statutory Lienholders and the Lenders to divide the Sale Proceeds such that the Statutory Lienholders would receive approximately \$85 million of the sale proceeds (the “Net Statutory Lienholder Proceeds”) and the Lenders would receive the balance. The Bankruptcy Court appointed a mediator to facilitate a settlement between the Statutory Lienholders as to how the Net Statutory Lienholder Proceeds would be distributed, but after engaging in numerous mediation sessions spanning several years, the parties were unable to reach a resolution. DMI filed a motion seeking permission from the Bankruptcy Court to file an action in Nevada to enforce its lien rights against the Net Statutory Lienholder Proceeds, and the motion was granted. Pursuant to that order, litigation involving all Statutory Lienholders was commenced at the end of November 2017 (the “Nevada Action”).

A determination of each Statutory Lienholder’s rights against the Net Statutory Lienholder Proceeds in the Nevada Action is expected by May 2019, with a pro rata distribution of those monies to follow shortly thereafter.

Management has made an estimate of the total anticipated recovery on this Project, and such estimate is included in revenue recorded to date. To the extent new facts become known or the final recovery included in the claim settlement varies from the estimate, the impact of the change will be reflected in the consolidated financial statements at that time.

Westgate Planet Hollywood Matter

Tutor-Saliba Corporation (“TSC”), a wholly owned subsidiary of the Company, was contracted to construct a timeshare development project in Las Vegas, which was substantially completed in December 2009. The Company’s claims against the owner, Westgate Planet Hollywood Las Vegas, LLC (“WPH”), relate to unresolved owner change orders and other claims. The Company filed a lien on the project in the amount of \$23.2 million and filed its complaint with the District Court, Clark County, Nevada. Several subcontractors have also recorded liens, some of which have been released by bonds and some of which have been released as a result of subsequent payment. WPH has posted a mechanic’s lien release bond for \$22.3 million.

WPH filed a cross-complaint alleging non-conforming and defective work for approximately \$51 million, primarily related to alleged defects, misallocated costs and liquidated damages. WPH revised the amount of their counterclaims to approximately \$45 million.

Following multiple post-trial motions, final judgment was entered in this matter on March 20, 2014. TSC was awarded total judgment in the amount of \$19.7 million on its breach of contract claim, which includes an award of interest up through the date of judgment, plus attorney’s fees and costs. WPH was awarded total judgment in the amount of \$3.1 million on its construction defect claims, which includes interest up through the date of judgment. WPH and its Sureties filed a notice of appeal. TSC filed a notice of appeal on the defect award. In July 2014, the District Court ordered WPH to post an additional supersedeas bond on appeal, in the amount of

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

\$1.7 million, in addition to the lien release bond of \$22.3 million, which increases the security up to \$24.0 million. In May 2017, the Nevada Supreme Court issued its ruling on the appeal by WPH and its Sureties. With only minor adjustments, the Nevada Supreme Court affirmed the District Court's judgment, and following further proceedings in the District Court, the anticipated final recovery to the Company is estimated to exceed \$20 million, including interest and recovery of certain attorneys' fees and costs of which the Company collected more than \$16 million in 2017. In December 2017 and in January 2018, the District Court issued several post-appeal orders confirming its previous rulings. Some of those matters have been appealed and are expected to be resolved in the first half of 2019. Once resolved, TSC will seek an order from the District Court seeking the remaining \$4 million in interest and fees associated with the matter.

The Company does not expect the ultimate resolution of this matter to have a material effect on its consolidated financial statements. Management has made an estimate of the total anticipated recovery on this project and such estimate is included in revenue recorded to date. To the extent new facts become known or the final recovery included in the claim settlement varies from the estimate, the impact of the change will be reflected in the consolidated financial statements at that time.

Five Star Electric Matter

In the third quarter of 2015, Five Star Electric Corp. ("Five Star"), a wholly owned subsidiary of the Company that was acquired in 2011, entered into a tolling agreement (which has since expired) related to an ongoing investigation being conducted by the United States Attorney's Office for the Eastern District of New York ("USAO EDNY"). Five Star has been cooperating with the USAO EDNY since late June 2014, when it was first made aware of the investigation, and has provided information requested by the government related to its use of certain minority-owned, women-owned, small and disadvantaged business enterprises and certain of Five Star's employee compensation, benefit and tax practices.

As of December 31, 2018, the Company cannot predict the ultimate outcome of the investigation and cannot reasonably estimate the potential loss or range of loss that Five Star or the Company may incur or the impact of the results of the investigation on Five Star or the Company.

Alaskan Way Viaduct Matter

In January 2011, Seattle Tunnel Partners ("STP"), a joint venture between Dragados USA, Inc. and the Company, entered into a design-build contract with the Washington State Department of Transportation ("WSDOT") for the construction of a large diameter bored tunnel in downtown Seattle, King County, Washington to replace the Alaskan Way Viaduct, also known as State Route 99.

The construction of the large diameter bored tunnel required the use of a tunnel boring machine ("TBM"). In December 2013, the TBM struck a steel pipe, installed by WSDOT as a well casing for an exploratory well. The TBM was damaged and was required to be shut down for repair. STP has asserted that the steel pipe casing was a differing site condition that WSDOT failed to properly disclose. The Disputes Review Board mandated by the contract to hear disputes issued a decision finding the steel casing was a Type I differing site condition. WSDOT has not accepted that finding.

The TBM was insured under a Builder's Risk Insurance Policy (the "Policy") with Great Lakes Reinsurance (UK) PLC and a consortium of other insurers (the "Insurers"). STP submitted the claims to the Insurers and requested interim payments under the Policy. The Insurers refused to pay and denied coverage. In June 2015, STP filed a lawsuit in the King County Superior Court, State of Washington ("Washington Superior Court") seeking declaratory relief concerning contract interpretation, as well as damages as a result of the Insurers' breach of their obligations under the terms of the Policy. WSDOT is deemed a plaintiff since WSDOT is an insured under the Policy and had filed its own claim for damages. Hitachi Zosen ("Hitachi"), the manufacturer of the TBM, has also joined the case as a plaintiff for costs incurred to repair the damages to the TBM. In September 2018, rulings received on pre-trial motions effectively limited potential recovery under the Policy for STP, WSDOT and Hitachi. However, on December 19, 2018, the Court of Appeal granted the Company's request for a discretionary appeal of those rulings. The appeal is expected to be heard in the second half of 2019. To the extent we are unable to recover damages under the Policy, we can still seek recovery against WSDOT and Hitachi.

In March 2016, WSDOT filed a complaint against STP in Thurston County Superior Court for breach of contract alleging STP's delays and failure to perform and declaratory relief concerning contract interpretation. STP filed its answer to WSDOT's complaint and filed a counterclaim against WSDOT and Hitachi. Trial is scheduled for October 2019.

As of December 31, 2018, the Company has concluded that the potential for a material adverse financial impact due to the Insurers' denial of coverage and WSDOT's legal actions is neither probable nor remote, and the potential loss or range of loss is not reasonably estimable. With respect to STP's claims against the Insurers, WSDOT and Hitachi, management has included an estimate of the total

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

anticipated recovery, concluded to be both probable and reliably estimable, in receivables or costs and estimated earnings in excess of billings recorded to date. To the extent new facts become known or the final recoveries vary from the estimate, the impact of the change will be reflected in the financial statements at that time.

9. Other Income, Net

On May 31, 2017, the Company entered into a settlement agreement with Merrill Lynch, Pierce, Fenner & Smith Incorporated (“Merrill Lynch”), as successor in interest to Banc of America Securities LLC and Bank of America, N.A. (collectively “BofA”), to resolve the pending litigation between the Company and Merrill Lynch. The litigation, which was filed by the Company in 2011, related to the Company’s purchase of certain auction-rate securities from BofA.

On June 6, 2017, the Company received the \$37.0 million cash settlement payment agreed to in the settlement agreement, and the pending litigation was dismissed with prejudice. Neither party made any admission of liability or wrongdoing, and the settlement agreement includes mutual releases of all claims and liabilities related to the subject matter of the pending litigation.

The Company recognized the settlement as a gain and reported it as a component of other income, net in its Consolidated Statement of Income for the year ended December 31, 2017.

10. Share-Based Compensation

On April 10, 2018, the Company adopted the Tutor Perini Corporation Omnibus Incentive Plan (the “Current Plan”), which was approved by the Company’s shareholders on May 23, 2018. The Current Plan effected the merger of the Company’s Amended and Restated Tutor Perini Corporation Long-Term Incentive Plan, as amended and restated on October 2, 2014 (the “2014 Plan”) and the Tutor Perini Corporation Incentive Compensation Plan adopted on April 3, 2017 (the “2017 Plan,” together with the 2014 Plan and the Current Plan, the “Plans”). The Current Plan provides for various types of share-based grants, including restricted and unrestricted stock units and stock options. Restricted and unrestricted stock units give the holder the right to exchange their stock units for shares of the Company’s common stock on a one-for-one basis. Stock options give the holder the right to purchase shares of the Company’s common stock subsequent to the vesting date at a defined exercise price. A stock option exercise price must be equal to or greater than the fair value of the Company’s common stock on the date of the award. Restricted stock units and stock options are usually subject to certain service and performance conditions as well as other restrictions. The term for stock options is limited to 10 years from the date of grant. As of December 31, 2018, there were 800,667 shares of common stock available for grant under the Company’s Current Plan. As of December 31, 2018, the Plans had an aggregate of 4,732,044 of restricted stock units and stock options from outstanding, historical awards that either have not vested or have vested but have not been exercised. Any awards that were granted under the 2014 Plan or the 2017 Plan that are forfeited, cancelled or held back for net settlement will become available to be issued under the Current Plan.

The terms of the Plans give the Company the right to settle the vesting of share-based grants in cash or shares. During the year ended December 31, 2018, the Company did not settle any awards in cash. During the year ended December 31, 2017, the Company paid approximately \$0.6 million to settle share-based awards.

Many of the awards issued under the Plans contain separate tranches, each for a separate performance period and each with a performance target to be established subsequent to the award date; accordingly, the tranches are accounted for under ASC 718, *Stock Compensation* (“ASC 718”) as separate grants, with the grant date being the date the performance targets for a given tranche are established and communicated to the grantee. Similarly, for these awards, compliance with the requirements of the Plans is also based on the number of units granted in a given year, as determined by ASC 718, rather than the number of units awarded in a given year. As a result, as of December 31, 2018, the Company had outstanding awards with 160,000 restricted stock units and 160,000 stock options that had not been granted yet. These units will be granted in 2019 and 2020 when the performance targets for those respective years are established.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The following table summarizes restricted stock unit and stock option activity:

	Restricted Stock Units		Stock Options	
	Number	Weighted-Average Grant Date Fair Value Per Share	Number	Weighted-Average Exercise/ (Strike) Price Per Share
Outstanding as of December 31, 2015	725,597	\$ 25.28	1,998,000	\$ 19.62
Granted	483,387	19.14	274,000	16.20
Vested/exercised	(52,500)	18.74	(97,500)	12.72
Outstanding as of December 31, 2016	1,156,484	\$ 22.64	2,174,500	\$ 19.50
Granted	1,064,000	30.02	539,000	24.54
Expired or cancelled	(20,985)	23.91	(19,466)	26.56
Vested/exercised	(801,515)	19.38	(140,000)	21.41
Outstanding as of December 31, 2017	1,397,984	\$ 30.11	2,554,034	\$ 20.45
Granted	699,000	24.21	664,000	23.20
Expired or cancelled	(240,289)	32.76	(274,990)	22.82
Vested/exercised	(387,695)	28.67	—	—
Outstanding as of December 31, 2018	1,469,000	\$ 27.27	2,943,044	\$ 20.89

The following table summarizes unrestricted stock units, which are generally issued to the non-employee members of the Company's Board of Directors as part of their annual retainer fees:

Year	Unrestricted Stock Units	
	Number	Weighted-Average Grant Date Fair Value Per Share
2016	64,603	\$ 21.67
2017	99,155	26.26
2018	115,420	21.26

The fair value of unrestricted stock units issued during 2018, 2017 and 2016 was approximately \$2.5 million, \$2.6 million and \$1.4 million, respectively.

The fair value of restricted stock units that vested during 2018, 2017 and 2016 was approximately \$7.9 million, \$25.3 million and \$1.0 million, respectively. There were no stock options exercised during 2018. The aggregate intrinsic value, representing the difference between the market value on the date of exercise and the option price of the stock options exercised during 2017 and 2016 was \$1.3 million and \$1.1 million, respectively, with a corresponding tax benefit of \$0.6 million and \$0.5 million, respectively. As of December 31, 2018, the balance of unamortized restricted stock and stock option expense was \$21.4 million and \$6.0 million, respectively, which will be recognized over weighted-average periods of 2.0 years for both restricted stock units and stock options.

The 2,943,044 outstanding stock options as of December 31, 2018 had an intrinsic value of \$2.5 million and a weighted-average remaining contractual life of 4.8 years. Of those outstanding options: (1) 2,034,044 were exercisable with an intrinsic value of \$2.5 million, a weighted-average exercise price of \$19.42 per share and a weighted-average remaining contractual life of 3.1 years; (2) 909,000 have been granted but have not vested with no intrinsic value, a weighted-average exercise price of \$23.92 per share and a weighted-average remaining contractual life of 8.5 years. Of the granted but unvested options, 876,750, are expected to vest.

The fair value of restricted and unrestricted stock units is based on the closing price of the Company's common stock on the New York Stock Exchange on the date of the grant and the fair value of stock options is based on the Black-Scholes model. For certain performance-based awards containing market condition components, the fair value on the grant date is determined using a Monte Carlo simulation model.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The fair value on the grant date and the significant assumptions used in the Black-Scholes option-pricing model are as follows:

	Year Ended December 31,		
	2018	2017	2016
Total stock options granted	664,000	539,000	274,000
Weighted-average grant date fair value	\$ 11.09	\$ 13.11	\$ 5.31
Weighted-average assumptions:			
Risk-free rate	2.6 %	1.8 %	1.2 %
Expected life of options ^(a)	5.8	4.8	4.2
Expected volatility ^(b)	42.2 %	43.1 %	40.6 %
Expected quarterly dividends	\$ —	\$ —	\$ —

(a) Calculated using the simplified method due to the terms of the stock options and the limited pool of grantees.

(b) Calculated using historical volatility of the Company's common stock over periods commensurate with the expected life of the option.

For the respective years ended December 31, 2018, 2017 and 2016, the Company recognized, as part of general and administrative expenses, costs for share-based payment arrangements for employees of \$21.1 million, \$19.6 million and \$13.4 million. Additionally for the same periods, the Company also recognized as part of general and administrative expenses costs for share-based awards to non-employee directors of \$1.7 million, \$1.6 million and \$1.4 million, respectively. The aggregate tax benefits for these awards were approximately \$3.8 million, \$8.7 million and \$6.1 million, for the respective periods.

11. Employee Benefit Plans

Defined Benefit Pension Plan

The Company has a defined benefit pension plan that covers certain of its executive, professional, administrative and clerical employees, subject to certain specified service requirements. The pension plan is noncontributory and benefits are based on an employee's years of service and "final average earnings," as defined by the pension plan. The pension plan provides reduced benefits for early retirement and takes into account offsets for social security benefits. The Company also has an unfunded supplemental retirement plan ("Benefit Equalization Plan") for certain employees whose benefits under the defined benefit pension plan were reduced because of compensation limitations under federal tax laws. Effective June 1, 2004, all benefit accruals under the Company's pension plan and Benefit Equalization Plan were frozen; however, the current vested benefit was preserved. Pension disclosure as presented below includes aggregated amounts for both of the Company's plans, except where otherwise indicated.

The Company historically has used the date of its year-end as its measurement date to determine the funded status of the pension plan.

The long-term investment goals of the Company's pension plan are to manage the assets in accordance with the legal requirements of all applicable laws; produce investment returns which maximize return within reasonable and prudent levels of risks; and achieve a fully funded status with regard to current pension liabilities. Some risk must be assumed in order to achieve the investment goals. Investments with the ability to withstand short and intermediate term variability are considered and some interim fluctuations in market value and rates of return are tolerated in order to achieve the pension plan's longer-term objectives.

The pension plan's assets are managed by a third-party investment manager. The Company monitors investment performance and risk on an ongoing basis.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

A summary of net periodic benefit cost is as follows:

(in thousands)	Year Ended December 31,		
	2018	2017	2016
Interest cost	\$ 3,496	\$ 3,919	\$ 4,153
Service cost	875	850	600
Expected return on plan assets	(4,302)	(4,358)	(4,803)
Recognized net actuarial losses	2,067	1,897	1,745
Net periodic benefit cost	\$ 2,136	\$ 2,308	\$ 1,695
Actuarial assumptions used to determine net cost:			
Discount rate	3.45 %	3.90 %	4.10 %
Expected return on assets	6.00 %	6.00 %	6.00 %
Rate of increase in compensation	N/A	N/A	N/A

The target asset allocation for the Company's pension plan by asset category for 2019 and the actual asset allocation as of December 31, 2018 and 2017 by asset category are as follows:

Asset Category	Percentage of Plan Assets as of December 31,		
	Target Allocation	Actual Allocation	
	2019	2018	2017
Cash	5 %	3 %	3 %
Equity funds:			
Domestic	45	50	41
International	20	27	31
Fixed income funds	30	20	25
Total	100 %	100 %	100 %

As of December 31, 2018 and 2017, pension plan assets included approximately \$16.5 million and \$30.7 million, respectively, of investments in hedge funds and equity partnerships which do not have readily determinable fair values. The underlying holdings of the funds were comprised of a combination of assets for which the estimate of fair value is determined using information provided by fund managers.

The Company expects to contribute approximately \$4.6 million to its defined benefit pension plan in 2019.

Future benefit payments under the plans are estimated as follows:

(in thousands)	
Year ended December 31,	
2019	\$ 6,810
2020	6,779
2021	6,729
2022	6,669
2023	6,590
2024-2028	31,752
Total	\$ 65,329

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The following tables provide a reconciliation of the changes in the fair value of plan assets and plan benefit obligations during 2018 and 2017, and a summary of the funded status as of December 31, 2018 and 2017:

(in thousands)	Year Ended December 31,	
	2018	2017
Change in Fair Value of Plan Assets		
Balance at beginning of year	\$ 71,541	\$ 66,057
Actual return on plan assets	(4,758)	9,224
Company contribution	2,975	2,838
Benefit payments	(6,649)	(6,578)
Balance at end of year	\$ 63,109	\$ 71,541

(in thousands)	Year Ended December 31,	
	2018	2017
Change in Benefit Obligations		
Balance at beginning of year	\$ 106,218	\$ 103,681
Interest cost	3,496	3,919
Service cost	875	850
Assumption change (gain) loss	(7,056)	3,854
Actuarial (gain) loss	(1,014)	492
Benefit payments	(6,650)	(6,578)
Balance at end of year	\$ 95,869	\$ 106,218

(in thousands)	As of December 31,	
	2018	2017
Funded status	\$ (32,760)	\$ (34,677)
Net unfunded amounts recognized in Consolidated Balance Sheets consist of:		
Current liabilities	\$ (262)	\$ (279)
Long-term liabilities	(32,498)	(34,398)
Total net unfunded amount recognized in Consolidated Balance Sheets	\$ (32,760)	\$ (34,677)

Amounts not yet recognized in net periodic benefit cost and included in accumulated other comprehensive loss consist of net actuarial losses before income taxes of \$57.6 million and \$58.7 million as of December 31, 2018 and 2017, respectively.

In 2018, net other comprehensive income of \$1.1 million consisted of reclassification adjustments for the amortization of previously existing actuarial losses and net actuarial gains arising during the period. In 2017, net other comprehensive income of \$2.4 million consisted of reclassification adjustments for the amortization of previously existing actuarial losses and net actuarial gains arising during the period. In 2016, net actuarial losses arising during the year were partially offset by reclassification adjustments for the amortization of previously existing actuarial losses and resulted in net other comprehensive loss of \$4.3 million.

The estimated amount of the net accumulated loss (consisting of net actuarial losses) that will be amortized from accumulated other comprehensive loss into net periodic benefit cost in 2019 is \$1.9 million.

The discount rate used in determining the accumulated post-retirement benefit obligation was 4.1% as of December 31, 2018 and 3.5% as of December 31, 2017. The discount rate used for the accumulated post-retirement obligation was derived using a blend of U.S. Treasury and high-quality corporate bond discount rates.

The expected long-term rate of return on assets assumption was 6.0% for both 2018 and 2017. The expected long-term rate of return on assets assumption was developed considering forward looking capital market assumptions and historical return expectations for each asset class assuming the plans' target asset allocation and full availability of invested assets.

Closely held fund strategies seek to capitalize on inefficiencies identified across different asset classes or markets and include long-short equity and long equity, event-driven, multi-strategy and distressed credit.

Plan assets were measured at fair value. Registered investment companies are public investment vehicles valued using the Net Asset Value ("NAV") of shares held by the pension plan at year-end. Equity and fixed income funds are valued based on quoted market

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

prices in active markets. Closely held funds held by the pension plan, which are only available through private offerings, do not have readily determinable fair values. Estimates of fair value of these funds were determined using the information provided by the fund managers and are generally based on the NAV per share or its equivalent.

The following table sets forth the pension plan assets at fair value in accordance with the fair value hierarchy described in Note 12:

(in thousands)	As of December 31, 2018				As of December 31, 2017			
	Fair Value Hierarchy			Total	Fair Value Hierarchy			Total
	Level 1	Level 2	Level 3		Level 1	Level 2	Level 3	
Cash and cash equivalents	\$ 7,587	\$ —	\$ —	\$ 7,587	\$ 2,390	\$ —	\$ —	\$ 2,390
Fixed income funds	—	2,585	—	2,585	18,031	—	—	18,031
Equity funds	36,436	—	—	36,436	20,372	—	—	20,372
	\$ 44,023	\$ 2,585	\$ —	\$ 46,608	\$ 40,793	\$ —	\$ —	\$ 40,793
Closely held funds ^(a)								
Equity partnerships				5,580				8,711
Hedge fund investments				10,921				22,037
Total closely held funds ^(a)				16,501				30,748
Total	\$ 44,023	\$ 2,585	\$ —	\$ 63,109	\$ 40,793	\$ —	\$ —	\$ 71,541

(a) Closely held funds in private investment were comprised of a combination of Level 1, 2 and 3 investments, but were not categorized in the fair value hierarchy because they were measured at NAV using the practical expedient under ASC 820, *Fair Value Measurement* (“ASC 820”).

The plans have benefit obligations in excess of the fair value of each plan’s assets as follows:

(in thousands)	As of December 31, 2018			As of December 31, 2017		
	Benefit		Total	Benefit		Total
	Pension Plan	Equalization Plan		Pension Plan	Equalization Plan	
Projected benefit obligation	\$ 92,816	\$ 3,053	\$ 95,869	\$ 102,806	\$ 3,412	\$ 106,218
Accumulated benefit obligation	\$ 92,816	\$ 3,053	\$ 95,869	\$ 102,806	\$ 3,412	\$ 106,218
Fair value of plans' assets	63,109	—	63,109	71,541	—	71,541
Projected benefit obligation greater than fair value of plans' assets	\$ 29,707	\$ 3,053	\$ 32,760	\$ 31,265	\$ 3,412	\$ 34,677
Accumulated benefit obligation greater than fair value of plans' assets	\$ 29,707	\$ 3,053	\$ 32,760	\$ 31,265	\$ 3,412	\$ 34,677

Section 401(k) Plan

The Company has a contributory Section 401(k) plan which covers its executive, professional, administrative and clerical employees, subject to certain specified service requirements. The cost recognized by the Company for its 401(k) plan was \$4.2 million in 2018, \$4.2 million in 2017 and \$4.0 million in 2016. The Company’s contribution is based on a non-discretionary match of employees’ contributions, as defined by the plan.

Multiemployer Plans

In addition to the Company’s defined benefit pension and contribution plans discussed above, the Company participates in multiemployer pension plans for its union construction employees. Contributions are based on the hours worked by employees covered under various collective bargaining agreements. Under the Employee Retirement Income Security Act, a contributor to a multiemployer plan is only liable for its proportionate share of a plan’s unfunded vested liability upon termination, or withdrawal from a plan. The Company currently has no intention of withdrawing from any of the multiemployer pension plans in which it participates and, therefore, has not recognized a liability for its proportionate share of any unfunded vested liabilities associated with these plans.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The following table summarizes key information for the plans that the Company made significant contributions to during the three years ended December 31, 2018:

Pension Fund	EIN/Pension Plan Number	Pension Protections Act		FIP/RP	Company Contributions			Surcharge Imposed	Expiration Date of Collective Bargaining Agreement
		Zone Status		Status	(amounts in millions) ^(b)				
		2018	2017	Pending Or Implemented	2018	2017	2016		
The Pension, Hospitalization and Benefit Plan of the Electrical Industry - Pension Trust Fund	13-6123601/001	Green	Green	N/A	\$ 12.2	\$ 16.0	\$ 15.8 ^(a)	No	4/30/2019
Carpenters Pension Trust Fund for Northern California	94-6050970	Red	Red	Implemented	4.9	8.2	4.4	No	6/30/2019
Excavators Union Local 731 Pension Fund	13-1809825/002	Green	Green	N/A	4.1	4.3	4.2	No	4/30/2022
Northern California Electrical Workers Pension Plan	94-6062674	Green	Green	N/A	4.1	5.2	1.5	No	5/31/2022
Laborers Pension Trust Fund for Northern California	94-6277608	Green	Yellow	N/A	3.8	6.6	5.6	No	6/30/2019
Steamfitters Industry Pension Fund	13-6149680/001	Green	Green	N/A	3.5	3.9 ^(a)	3.9 ^(a)	No	6/30/2020

(a) These amounts exceeded 5% of the respective total plan contributions.

(b) The Company's contributions as a percentage of total plan contributions were not available for the 2018 plan year for any of the above pension funds nor the 2017 plan year for The Pension, Hospitalization and Benefit Plan of the Electrical Industry - Pension Trust Fund.

In addition to the individually significant plans described above, the Company also contributed approximately \$29.3 million in 2018, \$27.8 million in 2017 and \$48.3 million in 2016 to other multiemployer pension plans.

12. Fair Value Measurements

The fair value hierarchy established by ASC 820 prioritizes the use of inputs used in valuation techniques into the following three levels:

- Level 1 inputs are observable quoted prices in active markets for identical assets or liabilities
- Level 2 inputs are observable, either directly or indirectly, but are not Level 1 inputs
- Level 3 inputs are unobservable

The following fair value hierarchy table presents the Company's assets that are measured at fair value on a recurring basis as of December 31, 2018 and 2017:

(in thousands)	As of December 31, 2018				As of December 31, 2017			
	Fair Value Hierarchy				Fair Value Hierarchy			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Cash and cash equivalents ^(a)	\$ 116,075	\$ —	\$ —	\$ 116,075	\$ 192,868	\$ —	\$ —	\$ 192,868
Restricted cash ^(a)	3,788	—	—	3,788	4,780	—	—	4,780
Restricted investments ^(b)	—	58,142	—	58,142	—	—	—	—
Investments in lieu of retainage ^(c)	62,858	1,190	—	64,048	69,891	2,405	—	72,296
Total	\$ 182,721	\$ 59,332	\$ —	\$ 242,053	\$ 267,539	\$ 2,405	\$ —	\$ 269,944

(a) Includes money market funds with original maturity dates of three months or less.

(b) During 2018, the Company reclassified its restricted investments from the held-to-maturity category to the available-for-sale category as a result of a change in management's investment strategy. At the time of the transfer, the securities had an aggregate amortized cost of \$60.1 million and an immaterial aggregate unrealized loss. Restricted investments, as of December 31, 2018, consist of investments in corporate debt securities of \$30.4 million and U.S. government agency securities of \$27.7 million with maturities of up to five years, and are valued based on pricing models, which are determined from a compilation of primarily observable market information, broker quotes in non-active markets or similar assets and are therefore classified as Level 2 Assets. As of December 31, 2017, restricted investments consisted of investments in U.S. agency securities of \$26.1 million and corporate debt securities of \$33.0 million. The amortized cost of these securities at December 31, 2018 and 2017 was not materially different from the fair value.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

- (c) Investments in lieu of retainage are included in retainage receivable and as of December 31, 2018 are comprised of money market funds of \$62.9 million and municipal bonds of \$1.2 million. The fair values of the money market funds are measured using quoted market prices; therefore, they are classified as Level 1 assets. The fair values of municipal bonds are measured using readily available pricing sources for comparable instruments; therefore, they are classified as Level 2 assets. As of December 31, 2017, investments in lieu of retainage consisted of money market funds of \$69.9 million and municipal bonds of \$2.4 million. The amortized cost of these available-for-sale securities at December 31, 2018 and 2017 was not materially different from the fair value.

The Company did not have material transfers between Levels 1 and 2 during the years ended December 31, 2018 and 2017.

The carrying values of receivables, payables and other amounts arising out of normal contract activities, including retainage, which may be settled beyond one year, are estimated to approximate fair value. Of the Company's long-term debt, the fair value of the 2017 Senior Notes was \$466.8 million and \$537.5 million as of December 31, 2018 and 2017, respectively. The fair value of the Convertible Notes was \$184.4 million and \$222.2 million as of December 31, 2018 and 2017, respectively. The fair values of the 2017 Senior Notes and Convertible Notes were determined using Level 1 inputs, specifically current observable market prices. The reported value of the Company's remaining borrowings approximates fair value as of December 31, 2018 and 2017.

13. Variable Interest Entities

The Company may form joint ventures or partnerships with third parties for the execution of single contracts or projects. In accordance with ASC 810, the Company assesses its partnerships and joint ventures at inception to determine if any meet the qualifications of a VIE. The Company considers a joint venture a VIE if either (a) the total equity investment is not sufficient to permit the entity to finance its activities without additional subordinated financial support, (b) characteristics of a controlling financial interest are missing (either the ability to make decisions through voting or other rights, the obligation to absorb the expected losses of the entity or the right to receive the expected residual returns of the entity), or (c) the voting rights of the equity holders are not proportional to their obligations to absorb the expected losses of the entity and/or their rights to receive the expected residual returns of the entity, and substantially all of the entity's activities either involve or are conducted on behalf of an investor that has disproportionately few voting rights. Upon the occurrence of certain events outlined in ASC 810, the company reassesses its initial determination of whether the joint venture is a VIE.

ASC 810 also requires the Company to determine whether it is the primary beneficiary of the VIE. The Company concludes that it is the primary beneficiary and consolidates the VIE if the Company has both (a) the power to direct the economically significant activities of the VIE and (b) the obligation to absorb losses of, or the right to receive benefits from, the VIE that could potentially be significant to the VIE. The Company considers the contractual agreements that define the ownership structure, distribution of profits and losses, risks, responsibilities, indebtedness, voting rights and board representation of the respective parties in determining if the Company is the primary beneficiary. The Company also considers all parties that have direct or implicit variable interests when determining whether it is the primary beneficiary. In accordance with ASC 810, management's assessment of whether the Company is the primary beneficiary of a VIE is performed continuously.

As of December 31, 2018, the Company had unconsolidated VIE-related current assets and liabilities of \$4.0 million and \$3.8 million, respectively, included in the Company's Consolidated Balance Sheet. As of December 31, 2017, the Company had unconsolidated VIE-related current assets and liabilities each of \$0.8 million, included in the Company's Consolidated Balance Sheet. The Company's maximum exposure to loss as a result of its investments in unconsolidated VIEs is typically limited to the aggregate of the carrying value of the investment and future funding commitments. There were no future funding requirements for the unconsolidated VIEs as of December 31, 2018.

As of December 31, 2018, the Company's Consolidated Balance Sheet included current and noncurrent assets of \$173.9 million and \$51.5 million, respectively, as well as current liabilities of \$319.9 million related to the operations of its consolidated VIEs. As of December 31, 2017, the Company's Consolidated Balance Sheet included current and noncurrent assets of \$95.5 million and \$11.6 million, respectively, as well as current liabilities of \$140.7 million related to the operations of its consolidated VIEs.

Below is a discussion of some of the Company's more significant or unique VIEs.

The Company established a joint venture to construct the Purple Line Section 2 Extension project, a \$1.4 billion mass-transit project in Los Angeles, California. The Company has a 75% interest in the joint venture with the remaining 25% held by O&G Industries, Inc. ("O&G"). The joint venture was initially financed with contributions from the partners and, per the terms of the joint venture agreement, the partners may be required to provide additional capital contributions in the future. The Company has determined that this joint venture is a VIE for which the Company is the primary beneficiary.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The Company also established a joint venture with Parsons Corporation (“Parsons”) to construct the Newark Liberty International Airport Terminal One project, a \$1.4 billion transportation infrastructure project in Newark, New Jersey. The Company has an 80% interest in the joint venture with the remaining 20% held by Parsons. The joint venture was initially financed with contributions from the partners and, per the terms of the joint venture agreement, the partners may be required to provide additional capital contributions in the future. The Company has determined that this joint venture is a VIE for which the Company is the primary beneficiary.

14. Business Segments

The Company offers general contracting, pre-construction planning and comprehensive project management services, including planning and scheduling of manpower, equipment, materials and subcontractors required for the timely completion of a project in accordance with the terms and specifications contained in a construction contract. The Company also offers self-performed construction services: site work, concrete forming and placement, steel erection, electrical, mechanical, plumbing, and HVAC (heating, ventilation and air conditioning). As described below, the Company’s business is conducted through three segments: Civil, Building and Specialty Contractors. These segments are determined based on how the Company’s Chairman and Chief Executive Officer (chief operating decision maker) aggregates business units when evaluating performance and allocating resources.

The Civil segment specializes in public works construction and the replacement and reconstruction of infrastructure. The contracting services provided by the Civil segment include construction and rehabilitation of highways, bridges, tunnels, mass-transit systems, and water management and wastewater treatment facilities.

The Building segment has significant experience providing services for private and public works customers in a number of specialized building markets, including: high-rise residential, hospitality and gaming, transportation, health care, commercial and government offices, sports and entertainment, education, correctional facilities, biotech, pharmaceutical, industrial and high-tech.

The Specialty Contractors segment specializes in electrical, mechanical, plumbing, HVAC, fire protection systems and pneumatically placed concrete for a full range of civil and building construction projects in the industrial, commercial, hospitality and gaming, and mass-transit end markets. This segment provides the Company with unique strengths and capabilities that allow the Company to position itself as a full-service contractor with greater control over scheduled work, project delivery, and cost and risk management.

To the extent that a contract is co-managed and co-executed among segments, the Company allocates the share of revenues and costs of the contract to each segment to reflect the shared responsibilities in the management and execution of the project.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The following tables set forth certain reportable segment information relating to the Company's operations for the years ended December 31, 2018, 2017 and 2016:

(in thousands)	Reportable Segments				Corporate	Consolidated Total
	Civil	Building	Specialty Contractors	Segment Total		
Year ended December 31, 2018						
Total revenue	\$ 1,810,232	\$ 1,866,902	\$ 1,006,870	\$ 4,684,004	\$ —	\$ 4,684,004
Elimination of intersegment revenue	(224,139)	(5,203)	—	(229,342)	—	(229,342)
Revenue from external customers	\$ 1,586,093	\$ 1,861,699	\$ 1,006,870	\$ 4,454,662	\$ —	\$ 4,454,662
Income (loss) from construction operations ^(a)	\$ 168,256	\$ 43,939	\$ 43,430	\$ 255,625	\$ (63,749) ^(b)	\$ 191,876
Capital expenditures	\$ 73,866	\$ 1,655	\$ 777	\$ 76,298	\$ 771	\$ 77,069
Depreciation and amortization ^(c)	\$ 29,685	\$ 1,956	\$ 4,358	\$ 35,999	\$ 11,268	\$ 47,267
Year ended December 31, 2017						
Total revenue	\$ 1,856,164	\$ 1,982,857	\$ 1,213,708	\$ 5,052,729	\$ —	\$ 5,052,729
Elimination of intersegment revenue	(253,989)	(41,532)	—	(295,521)	—	(295,521)
Revenue from external customers	\$ 1,602,175	\$ 1,941,325	\$ 1,213,708	\$ 4,757,208	\$ —	\$ 4,757,208
Income (loss) from construction operations	\$ 192,207	\$ 34,199	\$ 18,938	\$ 245,344	\$ (65,867) ^(b)	\$ 179,477
Capital expenditures	\$ 27,694	\$ 267	\$ 721	\$ 28,682	\$ 1,598	\$ 30,280
Depreciation and amortization ^(c)	\$ 33,767	\$ 2,021	\$ 4,699	\$ 40,487	\$ 11,443	\$ 51,930
Year ended December 31, 2016						
Total revenue	\$ 1,830,857	\$ 2,146,747	\$ 1,234,272	\$ 5,211,876	\$ —	\$ 5,211,876
Elimination of intersegment revenue	(161,894)	(76,906)	—	(238,800)	—	(238,800)
Revenue from external customers	\$ 1,668,963	\$ 2,069,841	\$ 1,234,272	\$ 4,973,076	\$ —	\$ 4,973,076
Income (loss) from construction operations ^(d)	\$ 172,668	\$ 51,564	\$ 37,908	\$ 262,140	\$ (60,220) ^(b)	\$ 201,920
Capital expenditures	\$ 13,541	\$ 516	\$ 1,005	\$ 15,062	\$ 681	\$ 15,743
Depreciation and amortization ^(c)	\$ 48,561	\$ 2,186	\$ 5,035	\$ 55,782	\$ 11,520	\$ 67,302

- (a) During the year ended December 31, 2018, the Company recorded a charge of \$17.8 million in income from construction operations (an after-tax impact of \$12.8 million, or \$0.25 per diluted share), which was primarily non-cash, as a result of the unexpected outcome of an arbitration decision related to a subcontract back charge dispute on a Civil segment project in New York that was completed in 2013.
- (b) Consists primarily of corporate general and administrative expenses.
- (c) Depreciation and amortization is included in income from construction operations.
- (d) During the year ended December 31, 2016 the Company recorded net favorable adjustments totaling \$3.0 million in income from construction operations (an after-tax impact of \$1.8 million, or \$0.04 per diluted share) for various Five Star Electric projects in New York in the Specialty Contractors segment. The net impact included material adjustments related to two electrical subcontract projects: a favorable adjustment of \$14.0 million for a completed project (an after-tax impact of \$8.2 million, or \$0.17 per diluted share) and an unfavorable adjustment of \$13.8 million for a project that was nearly complete (an after-tax impact of \$8.1 million, or \$0.16 per diluted share).

The above were the only changes in estimates considered material to the Company's results of operations during the periods presented herein.

Total assets by segment are as follows:

(in thousands)	As of December 31,	
	2018	2017
Civil	\$ 2,574,326	\$ 2,452,108
Building	913,746	909,207
Specialty Contractors	745,313	767,807
Corporate and other ^(a)	154,367	135,001
Total assets	\$ 4,387,752	\$ 4,264,123

- (a) Consists principally of cash, equipment, tax-related assets and insurance-related assets, offset by the elimination of assets related to intersegment revenue.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

Geographic Information

Information concerning principal geographic areas is as follows:

(in thousands)	Year Ended December 31,		
	2018	2017	2016
Revenue:			
United States	\$ 4,180,206	\$ 4,613,644	\$ 4,802,393
Foreign and U.S. territories	274,456	143,564	170,683
Total revenue	\$ 4,454,662	\$ 4,757,208	\$ 4,973,076

(in thousands)	As of December 31,	
	2018	2017
Assets:		
United States	\$ 4,225,143	\$ 4,093,673
Foreign and U.S. territories	162,609	170,450
Total assets	\$ 4,387,752	\$ 4,264,123

Reconciliation of Segment Information to Consolidated Amounts

A reconciliation of segment results to the consolidated income before income taxes is as follows:

(in thousands)	Year Ended December 31,		
	2018	2017	2016
Income from construction operations	\$ 191,876	\$ 179,477	\$ 201,920
Other income, net	4,256	43,882	6,977
Interest expense	(63,519)	(69,384)	(59,782)
Income before income taxes	\$ 132,613	\$ 153,975	\$ 149,115

15. Related Party Transactions

The Company leases, at market rates, certain facilities from an entity owned by Ronald N. Tutor, the Company's Chairman and Chief Executive Officer. Under these leases, the Company paid \$3.0 million in 2018 and \$2.8 million in both 2017 and 2016, and recognized expense of \$3.2 million in each of the three years.

Raymond R. Oneglia, Vice Chairman of O&G, is a director of the Company. The Company occasionally forms construction project joint ventures with O&G. During the three years ended December 31, 2018, the Company had active joint ventures with O&G including two infrastructure projects in the northeastern United States that were completed in 2017 and one to construct the Purple Line Section 2 Extension project in Los Angeles, California in which the Company's and O&G's joint venture interests are 75% and 25%, respectively. O&G may provide equipment and services to these joint ventures on customary trade terms; there were no material payments made by these joint ventures to O&G for services and equipment during the years ended December 31, 2018, 2017 and 2016.

Peter Arkley, Senior Managing Director, Construction Services Group, of Alliant Insurance Services, Inc. ("Alliant"), is a director of the Company. The Company uses Alliant for various insurance-related services. The associated expenses for services provided for the years ended December 31, 2018, 2017 and 2016 were \$14.7 million, \$17.6 million and \$8.9 million, respectively. The Company owed Alliant \$4.1 million and \$0.5 million as of December 31, 2018 and 2017, respectively, for services rendered.

TUTOR PERINI CORPORATION AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

16. Unaudited Quarterly Financial Data

The following table presents selected unaudited quarterly financial data for each full quarterly period of 2018 and 2017:

(in thousands, except per common share amounts)

Year Ended December 31, 2018	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Revenue	\$ 1,028,156	\$ 1,120,085	\$ 1,123,137	\$ 1,183,284
Gross profit	67,068	118,640	111,124	157,621
Income (loss) from construction operations	(925)	54,815	47,306	90,680
Income (loss) before income taxes	(15,210)	39,867	32,804	75,152
Net income (loss)	(10,942)	27,896	25,436	55,391
Net income (loss) attributable to Tutor Perini Corporation	(12,124)	24,883	21,272	49,405
Earnings (loss) per common share:				
Basic	\$ (0.24)	\$ 0.50	\$ 0.43	\$ 0.99
Diluted	\$ (0.24)	\$ 0.49	\$ 0.42	\$ 0.98

(in thousands, except per common share amounts)

Year Ended December 31, 2017	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Revenue	\$ 1,117,361	\$ 1,247,274	\$ 1,199,505	\$ 1,193,068
Gross profit	102,720	102,838	118,251	130,596
Income from construction operations	37,017	34,045	49,072	59,343
Income before income taxes	21,870	52,516	34,396	45,193
Net income	13,764	32,633	25,300	82,847
Net income attributable to Tutor Perini Corporation	13,764	30,096	23,584	80,938
Earnings per common share:				
Basic	\$ 0.28	\$ 0.61	\$ 0.47	\$ 1.63
Diluted	\$ 0.27	\$ 0.59	\$ 0.47	\$ 1.60

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DIRECTORS & OFFICERS

SHAREHOLDER INFORMATION

BOARD OF DIRECTORS

Ronald N. Tutor
Chairman & Chief Executive Officer
Director since: 1997

Michael R. Klein (1, 2, 3*)
Lead Independent Director
Vice Chairman
Chairman, CoStar Group, Inc.
Director since: 1997

Peter Arkley (2, 3)
Senior Managing Director,
Alliant Insurance Services, Inc.
Director since: 2000

Sidney J. Feltenstein
Senior Operating Partner
Sentinel Capital Partners
Director since: 2013

James A. Frost
President & Chief Operating Officer
Director since: 2015

Michael F. Horodniceanu (1)
Principal
Urban Advisory Group
Director since: 2018

Robert C. Lieber (1, 3)
Executive Managing Director
Island Capital Group
Director since: 2014

Dennis D. Oklak (1)
Retired Chairman and Chief
Executive Officer
Duke Realty Corp.
Director Since: 2017

Raymond R. Oneglia (3)
Vice Chairman
O&G Industries, Inc.
Director since: 2000

Dale Anne Reiss (1*)
Retired Senior Partner
Ernst & Young LLP
Director since: 2014

Donald D. Snyder (2*, 3)
Retired Business Executive
Director since: 2008

Dickran M. Tevrizian, Jr. (3)
Retired U.S. District Court Judge
Director since: 2011

- (1) Audit Committee
- (2) Compensation Committee
- (3) Corporate Governance & Nominating Committee

(*) Committee Chair

CORPORATE EXECUTIVE OFFICERS

Ronald N. Tutor
Chairman & Chief Executive Officer

James A. Frost
President & Chief Operating
Officer

Gary G. Smalley
Executive Vice President
Chief Financial Officer

Leonard J. Rejcek
President & Chief Executive Officer
Building Group

Wendy A. Hallgren
Executive Vice President
General Counsel

CONSTRUCTION OPERATIONS

Civil Group

Tutor Perini Civil Construction
James A. Frost
Chief Executive Officer, Civil Group

Frontier-Kemper Constructors, Inc.
W. David Rogstad
President & Chief Executive Officer

Lunda Construction Company
Dennis L. Behnke
President & Chief Executive Officer

Black Construction Corporation
Leonard K. Kaae
Senior Vice President &
General Manager

Becho, Inc.
Tim Smith
President

Building Group

Tutor Perini Building Corp.
Leonard J. Rejcek
President & Chief Executive Officer

Rudolph and Sletten, Inc.
Martin B. Sisemore
President & Chief Executive Officer

Roy Anderson Corp.
J. Mark Smith
President & Chief Executive Officer

Perini Management Services, Inc.
Robert Band
President & Chief Executive Officer

Specialty Contractors Group

Five Star Electric Corp.
Robert Saville
President & Chief Executive Officer

WDF, Inc.
Lawrence Roman
President & Chief Executive Officer

Fisk Electric Company
Orvil M. Anthony, Jr.
President & Chief Executive Officer

Nagelbush Mechanical, Inc.
Peter McCann
President

Desert Mechanical, Inc.
Armando Estrada
Vice President of Operations

Superior Gunitex
Steven Crawford
President

Annual Meeting

Please visit the Investor Relations section of our website at www.tutorperini.com and click "Proxy Voting" for information regarding the time and location of our Annual Meeting.

Stock Listing

The Company's Common Stock (trading symbol: TPC) is listed on the New York Stock Exchange.

Compliance with NYSE Corporate Governance Listing Standards

Annually, our Chief Executive Officer is required to certify to the New York Stock Exchange that he is not aware of any violation by the company of NYSE corporate governance listing standards as of the date of that certification, qualifying that certification to the extent necessary.

On June 15, 2018, our Chief Executive Officer submitted such certification, which contained no qualification.

Transfer Agent & Registrar

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P (800) 962-4284
www-us.computershare.com/investor/contact

Shareholder Inquiries

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Tutor Perini

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