Construction Industry Snapshot

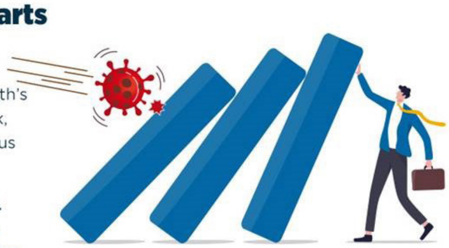
Issued: August 2020
(based on July 2020 Starts Stats)

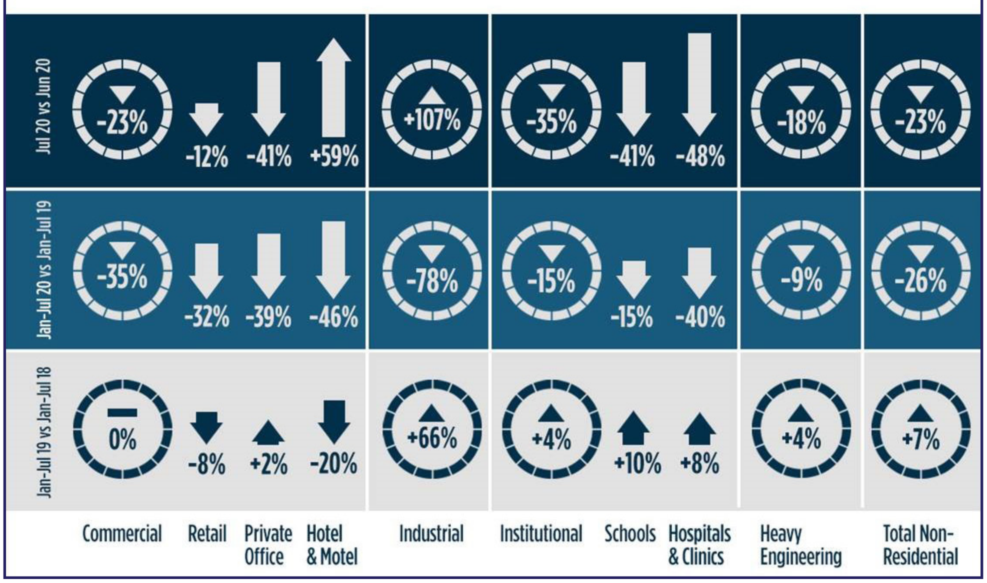
constructconnect. Marketing Analytics Team

July Nonresidential Construction Starts Down by a Quarter Both M/M & Ytd

ConstructConnect announced today that the latest month's volume of construction starts, excluding residential work, was $28.6 billion, down nearly one-quarter (-23.1%) versus June's figure of $37.2 billion.

July 2020 versus July 2019 was a jaw-dropping -44.0%. July year to date has been -25.5%. The negative effects of the coronavirus crisis have overwhelmed usual positive summer seasonality.





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July's Notable Points

- July 2020's -44.0% performance of total nonresidential construction starts relative to July 2019 (y/y) resulted from all four type-of-structure categories being in the hole: industrial, -88.2%; commercial, -59.5%; institutional, -35.8%; and engineering, -14.8%.
- The one-quarter (-25.5%) year-to-date decline in July was also a joint 'effort' by all type-of-structure categories, with industrial -77.5%; commercial, -34.6%; institutional, -15.0%; and engineering, -9.4%. (The ytd percent changes are for Jan-Jul 2020 versus Jan-Jul 2019.)

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Sidebar Casualty of the Coronavirus Crisis — Mega Projects

ConstructConnect announced today that the latest month's volume of construction starts, excluding residential work, was $28.6 billion *(green shaded box, Table 6, page 8)*, down nearly one-quarter (-23.1%) versus June's figure of $37.2 billion (originally reported as $37.6 billion).

July 2020 nonresidential starts versus July 2019 were a jaw-dropping -44.0%. Measures to combat COVID-19 have not only depressed general economic activity, including new construction undertakings, they have seriously suppressed go-aheads for mega projects (i.e., jobs valued at $1 billion or more each).

There was only one mega project start-up in July of this year — $1.4 billion in rapid transit work in San Dimas California, east of Las Angeles *(see page 5)*. Year to date in 2020, there have been only five mega project groundbreakings, summing to $9.45 billion. In July of last year alone, four mega projects were greenlighted for a combined $8.7 billion. (The largest was the Calcasieu Pass LNG facility in Louisiana, $4.5 billion).

A recovery in starts is sure to gain momentum as 2020 wanes and a fresh new year, 2021, begins to unfold. It seems unlikely, however, that 2019's strength in mega projects will be duplicated anytime soon. The first seven months of 2019 featured 19 mega projects totaling $45.0 billion. Full-year 2019 included 35 mega project start-ups adding to $79.1 billion. To demonstrate how unique 2019 was for mega projects, 2018 saw just 20 such initiatives for $47.2 billion.

In 2020 year-to-date starts, the privately-financed categories of construction have been weakest — commercial, at -34.6%, and industrial, -77.5% — while public/government works have fallen into shallower pits — institutional, -15.0%, and engineering, -9.4%.

Q2's Unprecedented Quarterly GDP Drop

As Graph 1 clearly illustrates, there's been nothing like 2020's Q2 gross domestic product collapse (-32.9% quarter to quarter annualized) in the history of data compiled by the Bureau of Economic Analysis (BEA) dating back to 1947. The second worse result was -10.0% (less than one-third as steep) in Q1 of 1958.

The decline in economic activity in the Spring of this year became most apparent in the jobs market. March-April's combined drop in total employment was a staggering -20.5 million positions. Since April, 7.6 million jobs have been recovered, although it has been a struggle. Lockdowns in many states were gradually eased, but re-openings also allowed the coronavirus to spread more easily, especially in the South and West of America. A 4.8-million-jobs surge in total employment in June shrank to 1.8 million in July.

TABLE 1: VALUE OF UNITED STATES CONSTRUCTION STARTS — JULY 2020 (ConstructConnect®)

	Jan-Jul 2020 ($ billions)	% Change Jan-Jul 20 vs Jan-Jul 19	% Change Jul 20 vs Jul 19	% Change Jul 20 vs Jun 20
Hotel/Motel	7.143	-45.8%	-49.7%	58.9%
Retail/Shopping	7.252	-32.1%	-26.2%	-11.6%
Parking Garage	1.077	-50.4%	-74.3%	-36.6%
Amusement	3.683	-20.8%	-74.6%	-39.7%
Private Office	12.120	-39.2%	-73.6%	-40.8%
Government Office	5.878	-12.2%	-44.9%	11.8%
Laboratory	1.232	11.5%	59.1%	-11.5%
Warehouse	12.263	-2.4%	-44.8%	-55.5%
Miscellaneous Commercial *	4.188	-67.6%	-74.9%	6.8%
COMMERCIAL (big subset)	**54.836**	**-34.6%**	**-59.5%**	**-22.6%**
INDUSTRIAL (Manufacturing)	**7.884**	**-77.5%**	**-88.2%**	**107.2%**
Religious	0.886	-23.5%	-44.0%	-17.0%
Hospital/Clinic	6.460	-39.5%	-84.0%	-48.3%
Nursing/Assisted Living	3.422	-43.5%	-61.1%	-28.9%
Library/Museum	2.770	17.6%	-52.3%	-24.3%
Fire/Police/Courthouse/Prison	3.939	13.4%	7.4%	-9.7%
Military	5.350	154.6%	107.3%	39.8%
School/College	43.515	-14.7%	-19.2%	-40.5%
Miscellaneous Medical	3.738	-33.5%	-56.9%	-34.9%
INSTITUTIONAL	**70.081**	**-15.0%**	**-35.8%**	**-35.3%**
Miscellaneous Non-residential	3.082	-24.2%	-38.6%	-23.8%
NONRESIDENTIAL BUILDING	**135.882**	**-33.9%**	**-57.3%**	**-27.4%**
Airport	3.420	-21.7%	-22.9%	-9.4%
Road/Highway	40.511	-2.6%	-26.1%	-18.8%
Bridge	15.249	-21.8%	-14.4%	-36.9%
Dam/Marine	4.688	-7.5%	-23.2%	-35.8%
Water/Sewage	18.686	-0.2%	-10.9%	-20.9%
Miscellaneous Civil (power, pipelines, etc.)	14.525	-18.7%	43.1%	22.4%
HEAVY ENGINEERING (Civil)	**97.079**	**-9.4%**	**-14.8%**	**-17.9%**
TOTAL NONRESIDENTIAL	**232.960**	**-25.5%**	**-44.0%**	**-23.1%**

* Includes transportation terminals and sports arenas.

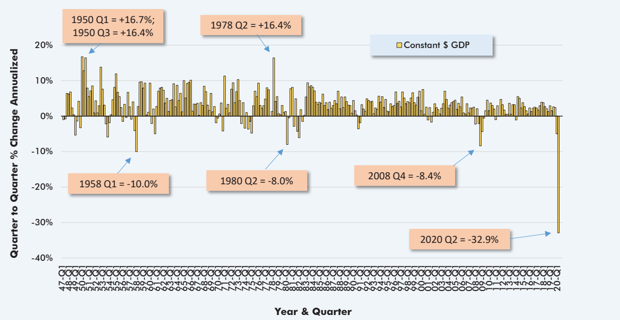
Source: ConstructConnect Research Group/Table: ConstructConnect.

Construction Among Leading Sectors for Jobs Retention

The far-right column in Table 2 records jobs recovery ratios — also referred to as 'claw-back' ratios — for the total economy and key industrial sectors. The claw-back ratio is the number of jobs re-instated through July versus April divided by March-April's 'big drop'. Economy-wide, a little more than one-third (37.3%) of the severe early-Spring jobs loss has been retrieved. Among industrial sectors, construction has the second-best record, with a claw-back ratio of 54.5%, trailing only retail trade, 56.7%.

Worth noting, though, is that construction's jobs gain in the standalone month of July was only +20,000 compared with the +1.8 million employment

GRAPH 1: U.S. 'REAL' GDP GROWTH, QUARTER-TO-QUARTER % CHANGE ANNUALIZED SINCE 1947 (i.e., BEGINNING OF BEA DATA)



"Real" is after adjustment by price indices (2012 = 100.0).

Data source: U.S. Bureau of Economic Analysis (BEA)/Chart: ConstructConnect.

TABLE 2: MONITORING THE U.S. EMPLOYMENT RECOVERY — JULY 2020

The Big Drop			Change in Number of Jobs (Millions)		% Change			
April 2020 vs Feb 2020 (Feb was the last month unaffected by COVID-19)			Jul vs Feb 2020 (Feb was the last month unaffected by COVID-19)	Jul vs Jun 2020 (i.e., vs previous month)	Jul vs Feb 2020 (Feb was the last month unaffected by COVID-19)	Jul vs Jun 2020 (i.e., vs previous month)	Jobs Recovery (since April)	Claw Back
-20.500	-13.5%	Grand Total	-12.860	1.763	-8.4%	1.3%	7.640	37.3%
-17.200	-15.9%	Private Services-Providing	-10.458	1.423	-9.6%	1.5%	6.742	39.2%
-1.330	-10.4%	Manufacturing	-0.740	0.026	-5.8%	0.2%	0.590	44.4%
-0.975	-12.8%	Construction	-0.444	0.020	-5.8%	0.3%	0.531	54.5%
-2.107	-13.5%	Retail Trade	-0.913	0.259	-5.8%	1.8%	1.194	56.7%
-0.584	-10.3%	Transportation & Warehouse	-0.470	0.038	-8.3%	0.7%	0.114	19.5%
-0.262	-3.0%	Financial Activities	-0.216	0.021	-2.4%	0.2%	0.046	17.6%
-2.128	-9.9%	Professional & Business	-1.627	0.170	-7.6%	0.9%	0.501	23.5%
-0.254	-8.8%	Information Services	-0.330	-0.015	-11.4%	-0.6%	-0.076	n/a
-2.544	-10.4%	Education and Health	-1.611	0.215	-6.6%	0.9%	0.933	36.7%
-7.653	-46.8%	Leisure & Hospitality	-4.340	0.592	-25.7%	5.0%	3.313	43.3%
-0.980	-4.3%	Government	-1.125	0.301	-4.9%	1.4%	-0.145	n/a

Data source: Bureau of Labor Statistics (BLS)/Table: ConstructConnect.

Continued on page 3

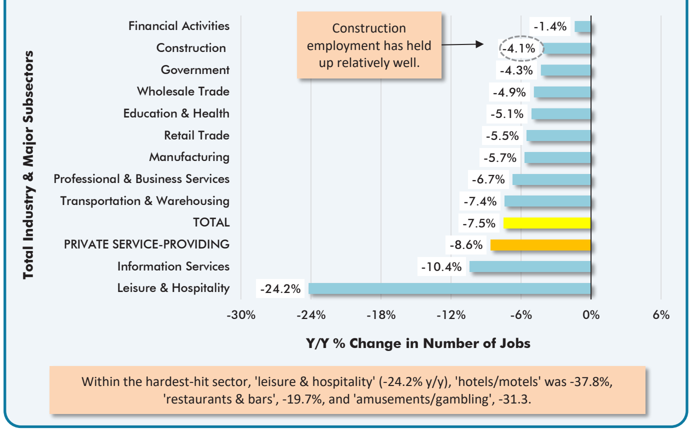
Continued from page 2

climb for the entire economy. Also know that the weighting of construction's July jobs increase was entirely towards residential work, with non-residential staffing modestly declining.

As for construction employment presently compared with a year ago, Graph 2 highlights that the sector is doing comparatively well. Again, it's in second place, at -4.1% y/y, this time behind only financial services, -1.4%. Manufacturing jobs are -5.7% y/y; 'total' employment is -7.5%. Standing out for its extraordinary degree of jobs distress is the 'leisure and hospitality' sector, with employment at -24.2% (or nearly minus one-quarter) year over year.

U.S. construction's not seasonally adjusted (NSA) unemployment rate in July was 8.9%, better than June's 10.1% and vastly superior to April's 16.6%. Of course, a year ago, in July 2019, it had been much tighter, at only 3.8%.

GRAPH 2: Y/Y JOBS CHANGE, U.S. TOTAL INDUSTRY & MAJOR SUBSECTORS – JULY 2020 (BASED ON SEASONALLY ADJUSTED PAYROLL DATA)



Data source: Payroll Survey, U.S. Bureau of Labor Statistics (Dept of Labor)/Chart: ConstructConnect.

Not All Trend Graphs Committed to Deep Slide

All the twelve-month moving average trend lines in the first four graphs on page 6 are displaying downward shifting tendencies. 'Private office buildings' and 'retail' are in the most distress. The engineering sub-category trend lines (Graphs 7 and 8) aren't as obviously committed to deep slides. 'Bridges' and 'miscellaneous civil' appear to be hovering to see what will come next. The 'roads/highways' designation has been knocked off its stride only in the latest month and 'water/sewage' is keeping its composure.

Compensation for Construction Workers Remains So-So

Tables B-3 and B-8 of the monthly *Employment Situation* report record average hourly and average weekly wages for industry sectors. B-3 is for all employees (i.e., including bosses) on non-farm payrolls. B-8 is for 'production and non-supervisory personnel' only (i.e., it excludes bosses). For 'all jobs' and construction, there are eight relevant percentage changes to consider.

From Table B-3 (including supervisory personnel) 'all-jobs' earnings y/y in July were +4.8% hourly and +5.4% weekly. Construction workers weren't so fortunate: +3.2% hourly and +2.7% weekly. From Table B-8 (excluding bosses), the 'all jobs' pay increases were +4.6% hourly and +6.2% weekly. Again, construction workers didn't catch the slipstream: +3.0% hourly and +2.4% weekly.

Engineering Starts have been Least Cringeworthy During Pandemic

July's nearly one-quarter (-23.1%) pull-back in total nonresidential starts compared with June (m/m) originated mainly in the institutional type-of-structure category (-35.3%), with commercial (-22.6%) and heavy engineering/civil (-17.9%) also failing to provide any support. Only industrial managed an uptick (+107.2), but it was achieved on top of a low base figure. Still, it's noteworthy that industrial in July included a Subaru car plant expansion in Tippecanoe County, Indiana.

July 2020's -44.0% performance of total nonresidential construction starts relative to July 2019 (y/y) resulted from all four type-of-structure categories being in the hole: industrial, -88.2%; commercial, -59.5%; institutional, -35.8%; and engineering, -14.8%.

The one-quarter (-25.5%) year-to-date decline in July was also a joint 'effort' by all type-of-structure categories, with industrial -77.5%; commercial, -34.6%; institutional, -15.0%; and engineering, -9.4%. (The ytd percent changes are for Jan-Jul 2020 versus Jan-Jul 2019.)

An Occasional Ray of Light in Year-to-date Starts

The 'school/college' sub-category within institutional has accounted for the largest dollar volume of total nonresidential starts so far in 2020. The three percentage-change metrics for education facilities have been: -40.5% m/m; -19.2% y/y; and -14.7% ytd.

Usually important within institutional are health care starts. Presently, though, the medical facility designation — as the combination of 'hospital/clinic', 'nursing/assisted living' and 'miscellaneous medical' — lies comatose on a gurney: -40.8% m/m; -76.5% y/y; and -39.1% ytd.

Second behind schools for dollar volume of starts within total nonresidential so far this year is the sub-category 'road/highway'. Street starts have maintained good momentum on a year-to-date basis (-2.6%), although in July they were -18.8% m/m and -26.1% y/y.

Within commercial starts, the major sub-categories were all down significantly year to date in July ('hotel/motel', -45.8%; 'private office building', -39.2%; and 'retail/shopping', -32.1%), except for 'warehouse', where the pull-back was to a minor degree (-2.4%).

Only four sub-categories of nonresidential starts have been positive on a year-to-date basis. One is within commercial ('laboratory', +11.5%) and three are within institutional ('library/museum', +17.6%; 'fire/police/courthouse/prison', +13.4%; and 'military', +154.6%). Only 'military' has also had gains both m/m (+39.8%) and y/y (+107.3%).

Mention should also be made of 'water/sewage' starts which were almost flat year to date in July (-0.2%), although they were -20.9% m/m and -10.9% y/y.

3 PPI Construction Costing Series — 2 Advances; 1 Retreat

July 2020's y/y results for three BLS Producer Price Index (PPI) series were as follows: 'construction materials special index', +0.2% (up from June's -0.5%); 'inputs to new construction index, excluding capital investment, labor and imports', -0.3% (less negative than June's -1.5%); and 'final demand construction', +2.1% (down from June's +2.2%).

The value of construction starts each month is derived from ConstructConnect's database of all active construction projects in the U.S. Missing project values are estimated with the help of RSMeans' building cost models. ConstructConnect's non-residential construction starts series, because it is comprised of total-value estimates for individual projects, some of which are super-large, has a history of being more volatile than many other leading indicators for the economy.

'Grand Total' Starts -20.4% Ytd

From Table 6 on page 8 of this report, ConstructConnect's total residential starts in July were -13.0% m/m, -20.6% y/y and -11.0% ytd. The latest month's multi-unit starts were -21.4% m/m, -34.3% y/y and -22.0% ytd. Single-family starts were -10.3% m/m, -15.8% y/y, and -6.2% ytd. Combining residential and nonresidential, 'Grand Total' construction starts in July 2020 were -19.3% m/m, -36.3% y/y and -20.4% ytd.♦

Alex Carrick

ConstructConnect has moved to a better-targeted and research-assigned 'start' date. (Prior to January 2017, the 'start' date was recorded as occurring within 30 to 60 days of the announced bid date.) In concept, a 'start' is equivalent to ground being broken for a project to proceed. If work is abandoned or re-bid, the 'start' date is revised to reflect the new information.

Alex Carrick is Chief Economist for ConstructConnect. He has delivered presentations throughout North America on the U.S., Canadian and world construction outlooks. Mr. Carrick has been with the company since 1985. Links to his numerous articles are featured on Twitter @ConstructConnx, which has 50,000 followers.

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TABLE 3: VALUE OF UNITED STATES CONSTRUCTION STARTS — ConstructConnect® INSIGHT VERSION — JULY 2020 ARRANGED TO MATCH THE ALPHABETICAL CATEGORY DROP-DOWN MENUS IN INSIGHT

	Jan-Jul 2020 ($ billions)	% Change Jan-Jul 20 vs Jan-Jul 19	% Change Jul 20 vs Jul 19	% Change Jul 20 vs Jun 20
Summary				
CIVIL	97.079	-9.4%	-14.8%	-17.9%
NONRESIDENTIAL BUILDING	135.882	-33.9%	-57.3%	-27.4%
RESIDENTIAL	147.984	-11.0%	-20.6%	-13.0%
GRAND TOTAL	380.944	-20.4%	-36.3%	-19.3%
Verticals				
Airport	3.420	-21.7%	-22.9%	-9.4%
All Other Civil	12.342	11.9%	129.1%	36.1%
Bridges	15.249	-21.8%	-14.4%	-36.9%
Dams / Canals / Marine Work	4.688	-7.5%	-23.2%	-35.8%
Power Infrastructure	2.183	-68.0%	-83.3%	-59.6%
Roads	40.511	-2.6%	-26.1%	-18.8%
Water and Sewage Treatment	18.686	-0.2%	-10.9%	-20.9%
CIVIL	97.079	-9.4%	-14.8%	-17.9%
Offices (private)	12.120	-39.2%	-73.6%	-40.8%
Parking Garages	1.077	-50.4%	-74.3%	-36.6%
Transportation Terminals	1.356	-83.3%	-92.6%	-46.6%
Commercial (small subset)	14.552	-51.8%	-79.5%	-41.2%
Amusement	3.683	-20.8%	-74.6%	-39.7%
Libraries / Museums	2.770	17.6%	-52.3%	-24.3%
Religious	0.886	-23.5%	-44.0%	-17.0%
Sports Arenas / Convention Centers	2.831	-41.0%	-47.7%	36.4%
Community	10.170	-21.5%	-59.5%	-10.5%
College / University	10.574	-12.9%	22.9%	-15.5%
Elementary / Pre School	13.829	-8.6%	-30.0%	-58.5%
Jr / Sr High School	18.036	-19.7%	-27.7%	-34.5%
Special / Vocational	1.076	-15.4%	-54.0%	-64.2%
Educational	43.515	-14.7%	-19.2%	-40.5%
Courthouses	0.998	63.7%	-26.5%	5.8%
Fire and Police Stations	1.779	-3.5%	42.2%	29.4%
Government Offices	5.878	-12.2%	-44.9%	11.8%
Prisons	1.162	14.0%	-9.2%	-48.8%
Government	9.818	-3.4%	-34.7%	3.9%
Industrial Labs / Labs / School Labs	1.232	11.5%	59.1%	-11.5%
Manufacturing	7.884	-77.5%	-88.2%	107.2%
Warehouses	12.263	-2.4%	-44.8%	-55.5%
Industrial	21.378	-56.1%	-79.8%	-23.0%
Hospitals / Clinics	6.460	-39.5%	-84.0%	-48.3%
Medical Misc.	3.738	-33.5%	-56.9%	-34.9%
Nursing Homes	3.422	-43.5%	-61.1%	-28.9%
Medical	13.621	-39.1%	-76.5%	-40.8%
Military	5.350	154.6%	107.3%	39.8%
Hotels	7.143	-45.8%	-49.7%	58.9%
Retail Misc.	3.082	-24.2%	-38.6%	-23.8%
Shopping	7.252	-32.1%	-26.2%	-11.6%
Retail	17.477	-37.4%	-39.2%	2.8%
NONRESIDENTIAL BUILDING	135.882	-33.9%	-57.3%	-27.4%
Multi-Family	39.445	-22.0%	-34.3%	-21.4%
Single-Family	108.539	-6.2%	-15.8%	-10.3%
RESIDENTIAL	147.984	-11.0%	-20.6%	-13.0%
NONRESIDENTIAL	232.960	-25.5%	-44.0%	-23.1%
GRAND TOTAL	380.944	-20.4%	-36.3%	-19.3%

Table 1 conforms to the type-of-structure ordering adopted by many firms and organizations in the industry. Specifically, it breaks nonresidential building into ICI work (i.e., industrial, commercial and institutional), since each has its own set of economic and demographic drivers. Table 3 presents an alternative, perhaps more user-friendly and intuitive type-of-structure ordering that matches how the data appears in ConstructConnect's on-line product 'Insight'.

Source: ConstructConnect/Table: ConstructConnect.

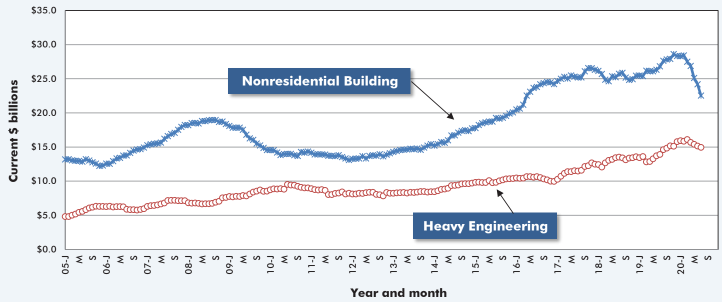
TABLE 4: ConstructConnect's TOP 10 PROJECT STARTS IN JULY 2020

LOCATION (EAST TO WEST)	TYPE OF CONSTRUCTION	DESCRIPTION	SQUARE FEET 000S*	DOLLARS 000,000S
Massachusetts				
East Weymouth	Institutional	Maria Weston Chapman Middle School Project (2 structures) 1051 Commercial St Town of Weymouth - Purchasing Department	252	$128
Connecticut				
Storrs Mansfield	Institutional	University of Connecticut New STEM Research Center - Northwest Quad Project (2 structures) 115 N Eagleville Rd University of Connecticut	200	$198
North Carolina				
Durham	Residential	Alta Davis (1 structure; 4 stories; 403 units) 4701 Hopson Rd Wood Partners LLC / Headquarters	1,099	$152
Florida				
Miami	Residential	Mr. C Mixed-Use Condominium Tower (Coconut Grove) (5 structures; 20 stories; 303 units) 2655 S Bayshore Dr The Terra Group	606	$185
Kentucky				
Lexington	Residential	Blackford Property Phase 4 (3 structures; 324 units) 6600 Man O War Blvd Ball Homes - Main Office (Central Kentucky)	884	$122
Indiana				
Lafayette	Industrial	Subaru of Indiana Automotive Expansion / Lafayette (1 structure) 5500 IN-38 Subaru of Indiana Automotive, Inc.	1,037	$158
Missouri				
Saint Louis	Commercial	Major League Soccer Stadium / Saint Louis (2 structures; 22,530 seats) Market St & Union Station City of Saint Louis Office of City Mayor	1,000	$400
Louisiana				
Sulphur	Civil/Engineering	I-10: Texas State Line - E. Of Coone Gullly (7 structures) I-10 Louisiana Department of Transportation and Development (LaDOTD)	*	$152
California				
San Dimas	Civil/Engineering	Foothill Gold Line Light Rail Extension - Glendora to Montclair - Foothill Gold LIne Construction Authority (2 structures) Multiple Locations Metro Gold Line Foothill Extension Construction Authority	*	$1,400
Oakland	Industrial	International Boulevard Industrial Development (1 structure; 1 story) 5441 International Blvd Bridge Development Partners - California	540	$290
TOTALS:			**5,618**	**$3,185**

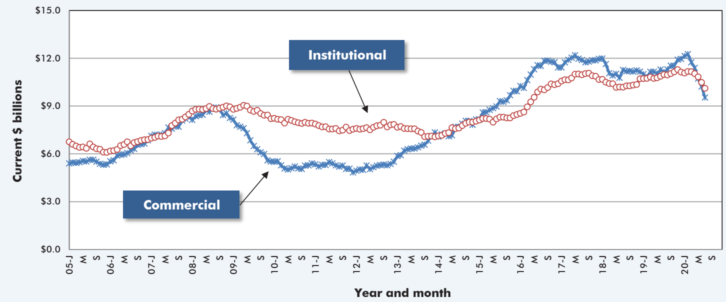
*A square footage measure does not apply for alteration, some forms of industrial (e.g., petrochemical) and most engineering/civil work.

Source: ConstructConnect/Table: ConstructConnect.

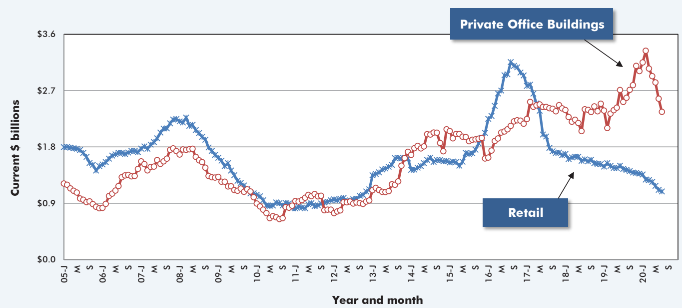
GRAPH 3: U.S. NONRESIDENTIAL CONSTRUCTION STARTS — ConstructConnect® (12-MONTH MOVING AVERAGES)



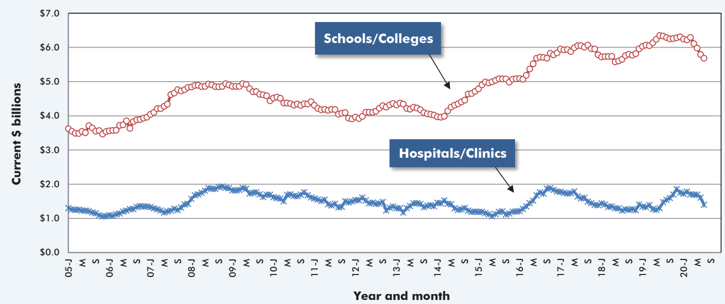
GRAPH 4: U.S. COMMERCIAL AND INSTITUTIONAL CONSTRUCTION STARTS — ConstructConnect® (12-MONTH MOVING AVERAGES)



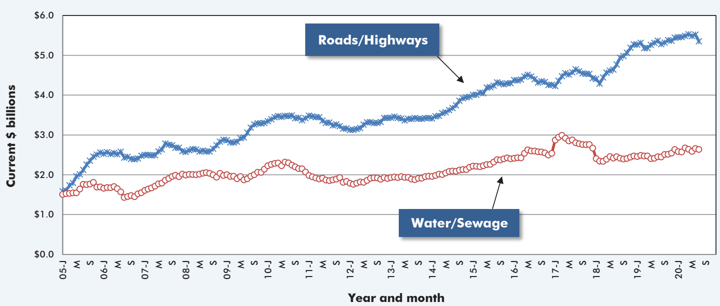
GRAPH 5: U.S. RETAIL AND PRIVATE OFFICE BUILDING CONSTRUCTION STARTS — ConstructConnect® (12-MONTH MOVING AVERAGES)



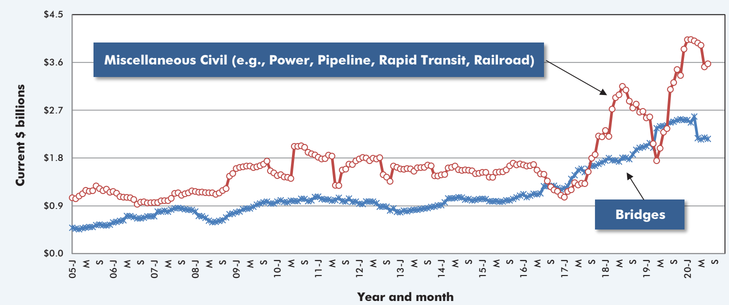
GRAPH 6: U.S. HOSPITAL/CLINIC AND SCHOOL/COLLEGE CONSTRUCTION STARTS — ConstructConnect® (12-MONTH MOVING AVERAGES)



GRAPH 7: U.S. ROAD/HIGHWAY AND WATER/SEWAGE CONSTRUCTION STARTS — ConstructConnect® (12-MONTH MOVING AVERAGES)



GRAPH 8: U.S. BRIDGES AND MISCELLANEOUS CIVIL CONSTRUCTION STARTS — ConstructConnect® (12-MONTH MOVING AVERAGES)



The last data points in all the graphs on this page are for July, 2020.

Source: ConstructConnect/Charts: ConstructConnect.

TABLE 5: U.S. YEAR-TO-DATE REGIONAL STARTS
NONRESIDENTIAL CONSTRUCTION* — ConstructConnect®

	Jan-Jul 2019	Jan-Jul 2020	% Change
Connecticut	$3,674,262,830	$2,308,211,734	-37.2%
Maine	$1,134,917,790	$1,002,628,466	-11.7%
Massachusetts	$8,251,934,918	$5,092,443,402	-38.3%
New Hampshire	$969,657,247	$610,549,289	-37.0%
Rhode Island	$634,738,443	$460,318,632	-27.5%
Vermont	$268,181,442	$421,509,080	57.2%
Total New England	$14,933,692,670	$9,895,660,603	-33.7%
New Jersey	$4,415,578,144	$4,143,733,347	-6.2%
New York	$14,204,223,177	$11,755,417,263	-17.2%
Pennsylvania	$10,533,706,760	$6,060,951,356	-42.5%
Total Middle Atlantic	$29,153,508,081	$21,960,101,966	-24.7%
TOTAL NORTHEAST	$44,087,200,751	$31,855,762,569	-27.7%
Illinois	$8,687,163,591	$9,665,764,655	11.3%
Indiana	$4,940,608,798	$4,922,097,424	-0.4%
Michigan	$5,808,405,849	$4,544,331,536	-21.8%
Ohio	$9,020,939,192	$7,127,079,724	-21.0%
Wisconsin	$6,740,227,592	$5,542,751,089	-17.8%
Total East North Central	$35,197,345,022	$31,802,024,428	-9.6%
Iowa	$3,327,595,389	$3,534,406,041	6.2%
Kansas	$3,267,363,970	$2,605,053,027	-20.3%
Minnesota	$7,506,857,771	$5,288,860,241	-29.5%
Missouri	$5,558,586,129	$7,150,338,198	28.6%
Nebraska	$2,522,472,880	$2,950,768,770	17.0%
North Dakota	$1,432,284,787	$1,394,813,618	-2.6%
South Dakota	$1,245,007,008	$868,670,143	-30.2%
Total West North Central	$24,860,167,934	$23,792,910,038	-4.3%
TOTAL MIDWEST	$60,057,512,956	$55,594,934,466	-7.4%
Delaware	$751,247,444	$841,917,883	12.1%
District of Columbia	$1,378,513,014	$517,673,778	-62.4%
Florida	$18,351,383,318	$13,175,834,635	-28.2%
Georgia	$12,767,069,730	$6,271,153,978	-50.9%
Maryland	$4,705,415,811	$4,546,299,157	-3.4%
North Carolina	$8,516,233,203	$6,232,363,612	-26.8%
South Carolina	$4,386,631,485	$3,063,175,925	-30.2%
Virginia	$10,005,974,126	$6,491,889,571	-35.1%
West Virginia	$1,054,284,482	$1,651,851,532	56.7%
Total South Atlantic	$61,916,752,613	$42,792,160,071	-30.9%
Alabama	$6,483,747,523	$3,137,987,959	-51.6%
Kentucky	$4,274,739,096	$1,914,670,265	-55.2%
Mississippi	$1,661,966,230	$1,859,698,810	11.9%
Tennessee	$5,559,208,992	$4,560,536,377	-18.0%
Total East South Central	$17,979,661,841	$11,472,893,411	-36.2%
Arkansas	$2,039,788,285	$2,310,970,716	13.3%
Louisiana	$6,827,825,304	$2,610,953,865	-61.8%
Oklahoma	$3,290,196,953	$2,279,591,885	-30.7%
Texas	$48,508,826,041	$26,223,465,604	-45.9%
Total West South Central	$60,666,636,583	$33,424,982,070	-44.9%
TOTAL SOUTH	$140,563,051,037	$87,690,035,552	-37.6%
Arizona	$5,533,948,093	$4,911,382,861	-11.2%
Colorado	$5,992,468,460	$4,240,118,093	-29.2%
Idaho	$1,473,729,976	$922,313,645	-37.4%
Montana	$882,296,471	$900,049,558	2.0%
Nevada	$3,902,632,047	$2,416,304,697	-38.1%
New Mexico	$894,736,417	$1,503,850,330	68.1%
Utah	$3,588,915,135	$4,350,733,079	21.2%
Wyoming	$3,789,098,641	$744,243,967	-80.4%
Total Mountain	$26,057,825,240	$19,988,996,230	-23.3%
Alaska	$732,057,529	$777,865,926	6.3%
California	$24,646,907,418	$23,810,727,691	-3.4%
Hawaii	$1,583,531,834	$1,098,355,518	-30.6%
Oregon	$3,695,838,889	$2,789,207,751	-24.5%
Washington	$11,162,429,749	$9,354,210,045	-16.2%
Total Pacific	$41,820,765,419	$37,830,366,931	-9.5%
TOTAL WEST	$67,878,590,659	$57,819,363,161	-14.8%
TOTAL U.S.	$312,586,355,403	$232,960,095,748	-25.5%

*Figures above are comprised of non-res building and engineering (i.e., residential is omitted).

Source: ConstructConnect/Table: ConstructConnect.

TABLE 6: VALUE OF U.S. NATIONAL CONSTRUCTION STARTS — JULY 2020 — ConstructConnect®
BILLIONS OF CURRENT $S, NOT SEASONALLY ADJUSTED (NSA)

	Latest month actuals			Moving averages (placed in end month)						Year to Date.	
				3-months			12-months			Jan-Jul	Jan-Jul
	May 20	Jun 20	Jul 20	May 20	Jun 20	Jul 20	May 20	Jun 20	Jul 20	2019	2020
Single Family	13.998	17.224	15.445	14.726	14.925	15.556	16.286	16.211	15.970	115.683	108.539
month-over-month % change	3.3%	23.0%	-10.3%	-5.2%	1.4%	4.2%	-1.6%	-0.5%	-1.5%		
year-over-year % change	-18.2%	-5.0%	-15.8%	-14.0%	-16.2%	-12.9%	0.6%	0.5%	-1.1%	-7.0%	-6.2%
Apartment	5.342	5.447	4.283	5.529	5.223	5.024	7.679	7.467	7.281	50.553	39.445
month-over-month % change	9.5%	2.0%	-21.4%	-3.2%	-5.5%	-3.8%	-0.3%	-2.8%	-2.5%		
year-over-year % change	-5.1%	-31.8%	-34.3%	-22.6%	-27.8%	-25.2%	-1.3%	-3.1%	-4.4%	-5.2%	-22.0%
TOTAL RESIDENTIAL	19.340	22.670	19.728	20.255	20.148	20.580	23.965	23.678	23.250	166.235	147.984
month-over-month % change	4.9%	17.2%	-13.0%	-4.7%	-0.5%	2.1%	-1.2%	-1.2%	-1.8%		
year-over-year % change	-15.0%	-13.2%	-20.6%	-16.5%	-19.5%	-16.2%	0.0%	-0.7%	-2.1%	-6.5%	-11.0%
Hotel/Motel	0.431	0.485	0.771	0.826	0.618	0.562	1.629	1.514	1.450	13.174	7.143
month-over-month % change	-54.0%	12.5%	58.9%	-36.8%	-25.2%	-9.0%	-6.1%	-7.1%	-4.2%		
year-over-year % change	-74.5%	-74.1%	-49.7%	-61.5%	-66.3%	-66.9%	-14.8%	-21.4%	-24.0%	-20.3%	-45.8%
Retail/Shopping	0.926	1.001	0.885	1.125	1.033	0.937	1.178	1.113	1.086	10.683	7.252
month-over-month % change	-21.0%	8.1%	-11.6%	3.2%	-8.2%	-9.3%	-5.0%	-5.5%	-2.3%		
year-over-year % change	-44.3%	-43.8%	-26.2%	-26.1%	-37.6%	-39.4%	-19.5%	-25.7%	-25.0%	-8.0%	-32.1%
Parking Garages	0.204	0.144	0.091	0.139	0.140	0.147	0.210	0.194	0.172	2.170	1.077
month-over-month % change	186.5%	-29.6%	-36.6%	45.2%	0.4%	4.8%	-6.4%	-7.7%	-11.3%		
year-over-year % change	-45.7%	-57.4%	-74.3%	-60.4%	-59.3%	-58.9%	-18.5%	-28.8%	-39.2%	32.4%	-50.4%
Amusement	0.342	0.513	0.309	0.541	0.517	0.388	0.645	0.627	0.551	4.648	3.683
month-over-month % change	-50.9%	50.2%	-39.7%	-10.5%	-4.4%	-24.9%	-2.1%	-2.9%	-12.1%		
year-over-year % change	-32.7%	-30.2%	-74.6%	-4.9%	-16.2%	-52.7%	-1.7%	-2.4%	-21.9%	-2.0%	-20.8%
Office	0.764	1.523	0.901	1.205	1.358	1.063	2.830	2.569	2.360	19.925	12.120
month-over-month % change	-57.3%	99.4%	-40.8%	-41.0%	12.7%	-21.8%	-3.4%	-9.2%	-8.1%		
year-over-year % change	-60.9%	-67.3%	-73.6%	-62.8%	-58.6%	-68.2%	16.7%	-5.2%	-6.3%	1.7%	-39.2%
Governmental Offices	0.779	0.850	0.950	0.906	0.845	0.860	0.982	0.964	0.899	6.693	5.878
month-over-month % change	-14.0%	9.0%	11.8%	4.2%	-6.7%	1.8%	-1.0%	-1.9%	-6.7%		
year-over-year % change	-13.3%	-20.4%	-44.9%	7.5%	-12.9%	-30.1%	6.7%	4.7%	-9.6%	15.8%	-12.2%
Laboratories	0.076	0.181	0.161	0.101	0.109	0.139	0.198	0.205	0.210	1.105	1.232
month-over-month % change	11.2%	138.0%	-11.5%	-19.0%	7.2%	28.2%	-4.9%	3.2%	2.4%		
year-over-year % change	-61.9%	73.9%	59.1%	-51.5%	-34.6%	3.1%	-12.8%	-6.1%	16.7%	-40.4%	11.5%
Warehouse	1.940	1.907	0.848	1.828	2.038	1.565	1.910	1.883	1.826	12.563	12.263
month-over-month % change	-14.4%	-1.7%	-55.5%	17.5%	11.5%	-23.2%	1.5%	-1.4%	-3.0%		
year-over-year % change	21.2%	-14.2%	-44.8%	-9.5%	-11.0%	-12.4%	6.0%	1.6%	1.7%	-1.6%	-2.4%
Misc Commercial	0.370	0.654	0.698	0.491	0.488	0.574	1.142	1.154	0.980	12.924	4.188
month-over-month % change	-15.8%	76.5%	6.8%	-14.0%	-0.6%	17.6%	-25.2%	1.0%	-15.0%		
year-over-year % change	-92.6%	27.9%	-74.9%	-79.4%	-76.6%	-79.2%	-17.0%	-7.1%	-24.5%	34.2%	-67.6%
TOTAL COMMERCIAL	5.833	7.257	5.615	7.163	7.145	6.235	10.724	10.222	9.535	83.884	54.836
month-over-month % change	-30.1%	24.4%	-22.6%	-13.3%	-0.2%	-12.7%	-5.9%	-4.7%	-6.7%		
year-over-year % change	-58.0%	-45.4%	-59.5%	-46.1%	-46.1%	-54.4%	-2.9%	-9.4%	-14.3%	-0.3%	-34.6%
TOTAL INDUSTRIAL (Manufacturing)	2.157	0.460	0.954	1.160	1.087	1.190	2.962	2.919	2.326	35.056	7.884
month-over-month % change	235.4%	-78.7%	107.2%	20.6%	-6.3%	9.5%	-22.7%	-1.5%	-20.3%		
year-over-year % change	-82.9%	-52.9%	-88.2%	-82.6%	-79.1%	-83.5%	-19.5%	-18.4%	-43.9%	65.8%	-77.5%
Religious	0.123	0.095	0.079	0.156	0.096	0.099	0.149	0.139	0.134	1.157	0.886
month-over-month % change	73.7%	-22.6%	-17.0%	3.1%	-38.0%	2.9%	-3.8%	-6.3%	-3.7%		
year-over-year % change	-36.6%	-54.3%	-44.0%	-6.6%	-47.3%	-45.3%	-16.6%	-18.5%	-21.7%	-10.3%	-23.5%
Hosptials/Clinics	1.146	0.916	0.474	0.815	0.917	0.845	1.694	1.609	1.401	10.678	6.460
month-over-month % change	66.3%	-20.1%	-48.3%	-12.1%	12.4%	-7.8%	0.1%	-5.0%	-12.9%		
year-over-year % change	1.7%	-52.7%	-84.0%	-30.7%	-29.1%	-58.0%	35.5%	23.6%	-4.9%	8.1%	-39.5%
Nursing/Assisted Living	0.473	0.372	0.264	0.537	0.486	0.369	0.631	0.611	0.577	6.061	3.422
month-over-month % change	-23.1%	-21.4%	-28.9%	4.4%	-9.5%	-24.0%	-5.8%	-3.2%	-5.6%		
year-over-year % change	-49.8%	-39.7%	-61.1%	-43.3%	-39.6%	-50.4%	-28.8%	-28.9%	-32.1%	-6.5%	-43.5%
Libraries/Museums	0.347	0.296	0.224	0.264	0.301	0.289	0.397	0.392	0.371	2.354	2.770
month-over-month % change	33.6%	-14.6%	-24.3%	-33.1%	14.0%	-3.9%	-3.5%	-1.2%	-5.2%		
year-over-year % change	-33.3%	-16.4%	-52.3%	-34.5%	-24.5%	-35.5%	50.1%	43.9%	25.2%	52.4%	17.6%
Fire/Police/Courthouse/Prison	0.424	0.499	0.451	0.542	0.482	0.458	0.621	0.612	0.614	3.473	3.939
month-over-month % change	-18.8%	17.8%	-9.7%	-0.6%	-11.1%	-4.9%	-2.1%	-1.5%	0.4%		
year-over-year % change	-27.2%	-18.4%	7.4%	0.8%	-16.8%	-14.9%	-4.7%	-4.4%	2.1%	-20.5%	13.4%
Military	0.488	0.530	0.742	1.044	0.991	0.587	0.655	0.669	0.701	2.101	5.350
month-over-month % change	-75.1%	8.7%	39.8%	6.2%	-5.1%	-40.8%	2.7%	2.2%	4.8%		
year-over-year % change	75.6%	47.8%	107.3%	234.7%	244.0%	77.0%	57.0%	60.5%	68.7%	-10.5%	154.6%
Schools/Colleges	7.034	9.264	5.511	6.674	7.405	7.269	5.980	5.795	5.686	51.010	43.515
month-over-month % change	18.9%	31.7%	-40.5%	17.3%	10.9%	-1.8%	-2.1%	-3.1%	-1.9%		
year-over-year % change	-18.2%	-19.4%	-19.2%	-12.6%	-21.3%	-18.9%	-4.1%	-8.7%	-10.2%	9.6%	-14.7%
Misc Medical	0.786	0.409	0.266	0.684	0.594	0.487	0.705	0.650	0.621	5.621	3.738
month-over-month % change	34.1%	-48.0%	-34.9%	21.2%	-13.1%	-18.0%	-3.1%	-7.8%	-4.5%		
year-over-year % change	-25.7%	-61.6%	-56.9%	-21.7%	-41.9%	-46.7%	-20.6%	-24.3%	-25.5%	-18.2%	-33.5%
TOTAL INSTITUTIONAL	10.820	12.381	8.010	10.716	11.272	10.404	10.831	10.477	10.105	82.456	70.081
month-over-month % change	1.9%	14.4%	-35.3%	9.7%	5.2%	-7.7%	-1.9%	-3.3%	-3.5%		
year-over-year % change	-18.6%	-25.6%	-35.8%	-11.1%	-19.4%	-26.4%	0.5%	-3.6%	-7.9%	4.0%	-15.0%
Misc Non Residential	0.370	0.484	0.369	0.412	0.419	0.408	0.585	0.574	0.555	4.067	3.082
month-over-month % change	-7.8%	30.7%	-23.8%	-4.5%	1.7%	-2.6%	-3.1%	-1.9%	-3.4%		
year-over-year % change	-38.0%	-21.3%	-38.6%	-32.5%	-33.6%	-32.5%	-2.3%	-1.3%	-1.8%	-9.5%	-24.2%
TOTAL NON-RES BUILDING	19.180	20.583	14.948	19.450	19.923	18.237	25.102	24.191	22.520	205.463	135.882
month-over-month % change	-4.1%	7.3%	-27.4%	0.1%	2.4%	-8.5%	-6.6%	-3.6%	-6.9%		
year-over-year % change	-52.5%	-34.7%	-57.3%	-40.4%	-39.7%	-48.8%	-3.8%	-8.0%	-16.0%	8.7%	-33.9%
Airports	0.539	0.886	0.803	0.461	0.578	0.743	0.532	0.556	0.536	4.369	3.420
month-over-month % change	74.4%	64.3%	-9.4%	34.5%	25.3%	28.5%	-2.1%	4.6%	-3.6%		
year-over-year % change	-20.6%	49.9%	-22.9%	-9.8%	-4.2%	-3.6%	-5.3%	-3.6%	-12.3%	1.7%	-21.7%
Roads/Highways	6.774	7.159	5.816	6.665	7.201	6.583	5.482	5.521	5.349	41.603	40.511
month-over-month % change	-11.7%	5.7%	-18.8%	18.0%	8.0%	-8.6%	-0.9%	0.7%	-3.1%		
year-over-year % change	-7.8%	7.0%	-26.1%	1.5%	2.1%	-9.9%	4.2%	3.9%	-0.3%	2.8%	-2.6%
Bridges	1.981	2.715	1.712	2.229	2.143	2.136	2.148	2.184	2.160	19.510	15.249
month-over-month % change	14.3%	37.1%	-36.9%	0.9%	-3.8%	-0.3%	-1.1%	1.7%	-1.1%		
year-over-year % change	-12.3%	18.9%	-14.4%	-36.5%	-42.4%	-2.1%	-10.3%	-8.9%	-10.5%	33.7%	-21.8%
Dams/Marine	0.885	0.663	0.426	0.781	0.785	0.658	0.728	0.692	0.681	5.068	4.688
month-over-month % change	9.7%	-25.1%	-35.8%	33.3%	0.6%	-16.2%	-11.9%	-5.0%	-1.5%		
year-over-year % change	-57.0%	-39.9%	-23.2%	-13.2%	-33.3%	-46.9%	11.1%	-3.2%	-5.0%	62.8%	-7.5%
Water/Sewage	2.297	3.425	2.709	2.815	2.897	2.811	2.589	2.660	2.633	18.715	18.686
month-over-month % change	-22.6%	49.1%	-20.9%	3.2%	2.9%	-3.0%	-1.9%	2.8%	-1.0%		
year-over-year % change	-21.0%	33.5%	-10.9%	2.2%	-1.6%	-1.0%	7.7%	10.2%	7.5%	-1.3%	-0.2%
Misc Civil (Power, etc.)	3.809	1.795	2.198	2.228	2.285	2.601	3.921	3.516	3.572	17.859	14.525
month-over-month % change	204.6%	-52.9%	22.4%	73.4%	2.6%	13.8%	-1.1%	-10.3%	1.6%		
year-over-year % change	-11.8%	-73.0%	43.1%	-16.2%	-46.1%	-37.6%	97.8%	54.0%	51.8%	-17.9%	-18.7%
TOTAL ENGINEERING (Civil)	16.285	16.644	13.665	15.179	15.888	15.531	15.400	15.130	14.931	107.123	97.079
month-over-month % change	10.5%	2.2%	-17.9%	18.6%	4.7%	-2.2%	-1.7%	-1.8%	-1.3%		
year-over-year % change	-16.8%	-16.3%	-14.8%	-10.2%	-19.5%	-16.1%	16.2%	10.4%	7.3%	3.8%	-9.4%
GRAND TOTAL	54.805	59.897	48.340	54.884	55.959	54.348	64.467	62.999	60.701	478.822	380.944
month-over-month % change	3.1%	9.3%	-19.3%	2.6%	2.0%	-2.9%	-3.5%	-2.3%	-3.6%		
year-over-year % change	-33.7%	-22.7%	-36.3%	-25.6%	-28.1%	-30.9%	1.8%	-1.3%	-5.9%	1.9%	-20.4%
NON-RES BLDG + ENGINEERING	***35.465***	***37.227***	***28.612***	***34.629***	***35.811***	***33.768***	***40.502***	***39.321***	***37.451***	***312.586***	***232.960***
month-over-month % change	***2.1%***	***5.0%***	***-23.1%***	***7.5%***	***3.4%***	***-5.7%***	***-4.8%***	***-2.9%***	***-4.8%***		
year-over-year % change	***-40.8%***	***-27.6%***	***-44.0%***	***-30.1%***	***-32.2%***	***-37.6%***	***2.9%***	***-1.7%***	***-8.0%***	***6.9%***	***-25.5%***

Source: ConstructConnect/Table: ConstructConnect.