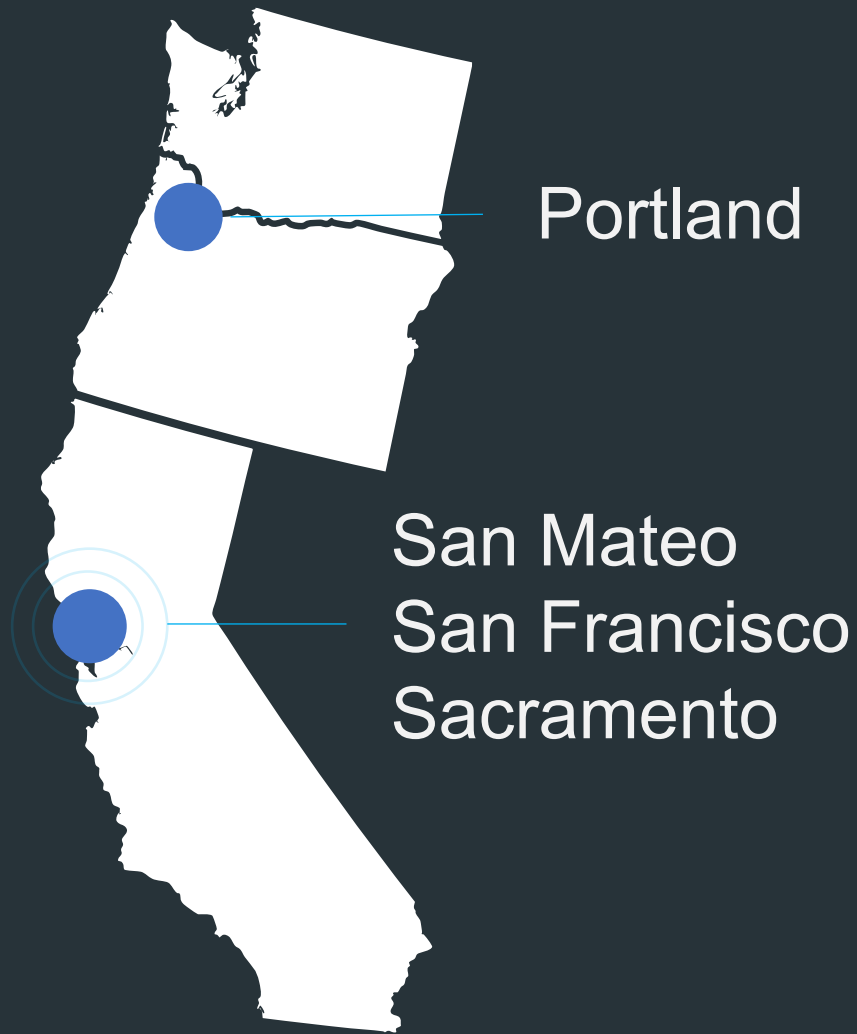


The Art & Science of Conceptual Estimating



The Art & Science of Conceptual Estimating

Introduction to
Truebeck Construction



FULL-SERVICE GC

-  Preconstruction
-  Technology + Innovation
-  Progressive Delivery Methods
-  QA/QC
-  MEP Expertise
-  Self-Perform
-  Safety Management

MARKETS

Education

Life Sciences

Healthcare / OSHPD

Multi Family

Mixed Use

Commercial Office

Workplace

Mission Critical

Corporate Campus

LEADERS IN SAFETY



EMR: 0.62



\$800 Million
Annual Revenue



550+

TRUEBECK

Preconstruction

HQ in Bay Area

Innovation

Client Service

30+

Estimators /
Cost Engineers

Historical Cost Dashboard

1. Choose Filter Parameters

Use filters to narrow down the list of historical projects (shown on right)

Approved Estimates for PowerBI ☒



Estimate Properties

Market Sector	▼
Zip Code	▼
Client Name	▼
Architect	▼
Structural Engineer	▼
Civil Engineer	▼
Electrical Engineer	▼
Mechanical Engineer	▼

Building Features

Building Structure	▼
Foundation Type	▼
Deep Foundation Type	▼
Roof Type	▼

Contract Information

Contract Type	▼
Level of Detail	▼
Construction Type	▼
LEED Rating	▼
Minority	▼

Internal Team

Lead Estimator	▼
Support Estimator	▼
Mechanical Estimator	▼
Electrical Estimator	▼

2. Choose Estimates to Compare

Use features on the left to filter down estimates. Dashboard performs best with maximum of 6-8 projects.

Estimate Information

Estimate Name	▼
Version Name	▼

Estimate Systems

Estimate System	▼
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Template Conceptual Estimates by Market Segment

- Fill Out Area Summary
- Answer Project Tab Questions
- Align Project Expectations with Owner/Design Team
- Populates line items for detailed Estimate
- 80% of Estimate is done and ready for review

Estimate

▲ Base Estimate

System ▲ Group ▲ Phase ▲

Item Number ▲	Description ▲	Quantity	Unit of Me...	Formula
▲ Warm Shell				
▲ 02.000 FOUNDATIONS				
▲ 02.010 Layout and Survey				
	Layout and Survey	0.00	sqft	WS Ground Floor
		0.00	mnth	WS Dewatering Mos
		0.00	Isum	WS Piles
		0.00	lnft	WS Deep Foundations
		0.00	Isum	WS Piles
		0.00	cuyd	WS Foundation Spoils
		0.00	sqft	WS Ground Improvement
		0.00	cuyd	WS Spread
		0.00	lb	175 * WS Spread
		0.00	cuyd	WS GB
		0.00	lb	150* WS GB
		0.00	cuyd	WS PC GB
		0.00	lb	175 * WS PC GB

Warm Shell - Use WS Area Study Tab, WS Finishes Tab & Answer the Following:

FOUNDATIONS:

Deep Foundation Type: None pick from list

Deep Foundation Length (each): 0 LNFT

Deep Foundation Diameter (excavation): 0 INCH

Foundation Type: Mat Foundation pick from list

Grade Beams: 0 LNFT

Column, Shear Wall, BRB Foundation Sizes: 0 LNFT

Dewatering Duration: 0 MONTH

Mud Slab Needed?: No pick from list

Shoring Needed: None pick from list

Shoring Depth: 0 LNFT

Shoring Length: 0 LNFT

Hazardous Soils Class: Clean pick from list

Slab on Grade: Slab on Grade pick from list

Subdrainage System Needed?: No pick from list

Methane Mitigation: None pick from list

Floor Area Ground Floor: 0

Ground Floor Perimeter: 0

Total Perimeter Above Grade: 0

SUPERSTRUCTURE:

Superstructure Type: Steel with Concrete SOMD pick from list

Column Count Ground Floor (Steel or Concrete): 0 EACH

Total Concrete Column Count: 0 EACH

Steel LB/SF: 0

BRB Count Total: 0

BRB Count Ground Floor: 0

Shear Wall Ground Floor: 0

Shear Wall Total: 0

MISC:

Lobby Area: 0

Lobby Interior Perimeter: 0

Drywall - Takeoff Available? (Default No): 0

Soffit Material: 0

Penthouse Wall Material: 0

Roof Screen Length: 0

Roof Screen Height: 0

Green Roof? If so, SQFT: 0

Count of Exterior Overhead Doors?: 0

Total sqft of Exterior OH Doors?: 0

Tower Crane?: 0

Tower Crane Duration: 0

Mobile Crane?: 0

Manlift Required Above Grade?: 0

How many cabs?: 0

Manlift Required Below Grade?: 0

How many cabs?: 0

Personnel Hoist Duration: 0

Window Washing System?: 0

Loading Dock Stalls: 0

Fire Water Tank?: 0

IT INTO CHART (CELL F34)

Auto Formula from Area Study

Auto Formula from Area Study

Auto Formula from Area Study

Mark 0 if steel building

Below Grade Levels		Building				Exterior Skin								
Above Grade Levels		Floor				Basement Wall	Total Skin Area	Soffit Area	Glass Single Door	Glass Double Door	Glass Railings (left)	HM Single Door	HM Double Door	Stairs
Above Grade	Below Grade	Height	Peri	Area	Terrace									
	P-4	0.00	0.00	0		0								
	P-3	0.00	0.00	0		0								
	P-2	0.00	0.00	0		0								
	P-1	0.00	0.00	0		0								
Level1		0.00	0.00	0		0								
Level2		0.00	0.00	0		0								
Level3		0.00	0.00	0		0								
Level4		0.00	0.00	0		0								
Level5		0.00	0.00	0		0								
Level6		0.00	0.00	0		0								
Level7		0.00	0.00	0		0								
Level8		0.00	0.00	0		0								
Level9		0.00	0.00	0		0								
Level10		0.00	0.00	0		0								
Level11		0.00	0.00	0		0								
Level12		0.00	0.00	0		0								
Roof Area (Full Roof)		0.00	0.00	0		0								
Penthouse		0.00	0.00	0		0								
GSF TOTALS					0	0	0	0	0	0	0	0	0	0
BELOW GRADE					0	0	0	0	0	0	0	0	0	0
ABOVE GRADE					0	0	0	0	0	0	0	0	0	0

Structure Area: 0 SQFT

Roof Area: 0 SQFT

Superstructure Area: 0 SQFT

Superstructure Perimeter: 0 LNFT

Total Height AG: 0 LNFT

Total Height BG: 0 LNFT

Penthouse /: 0 SQFT

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Introduction to
The Beck Group

Company Overview

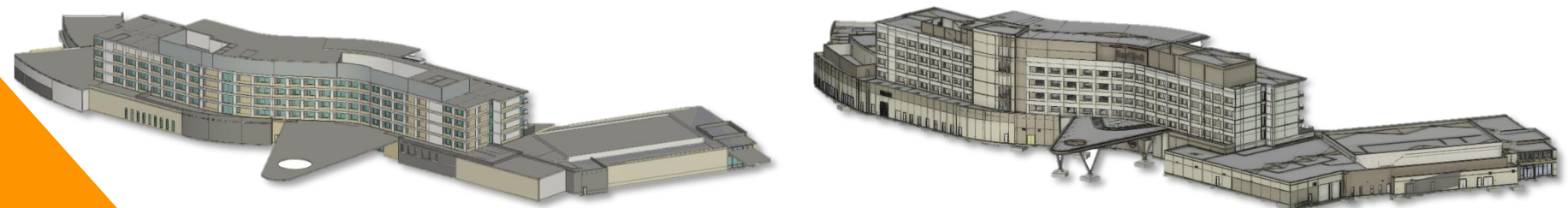
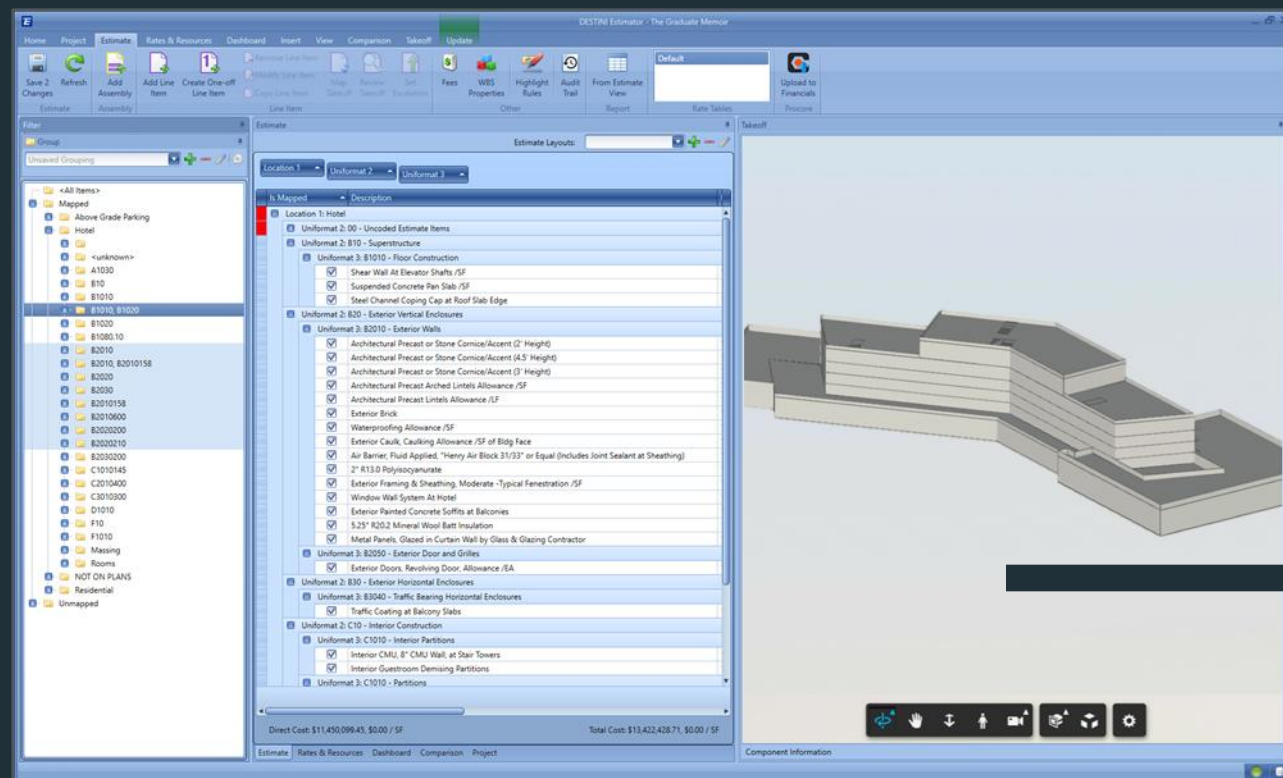
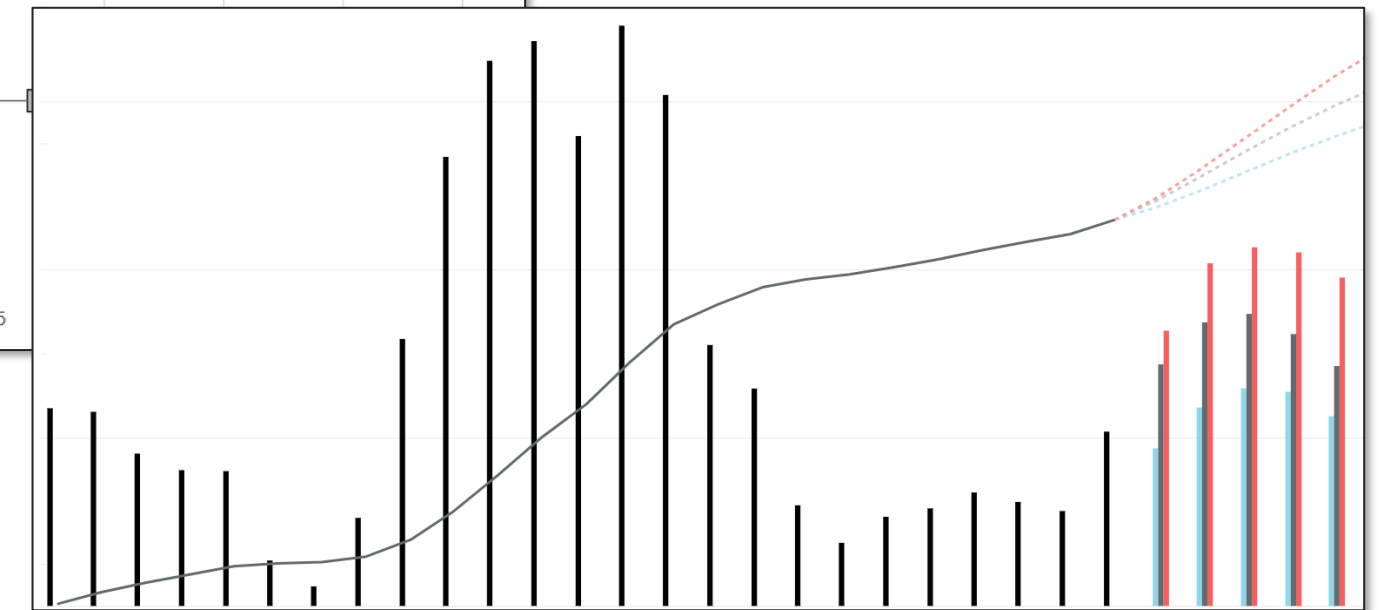
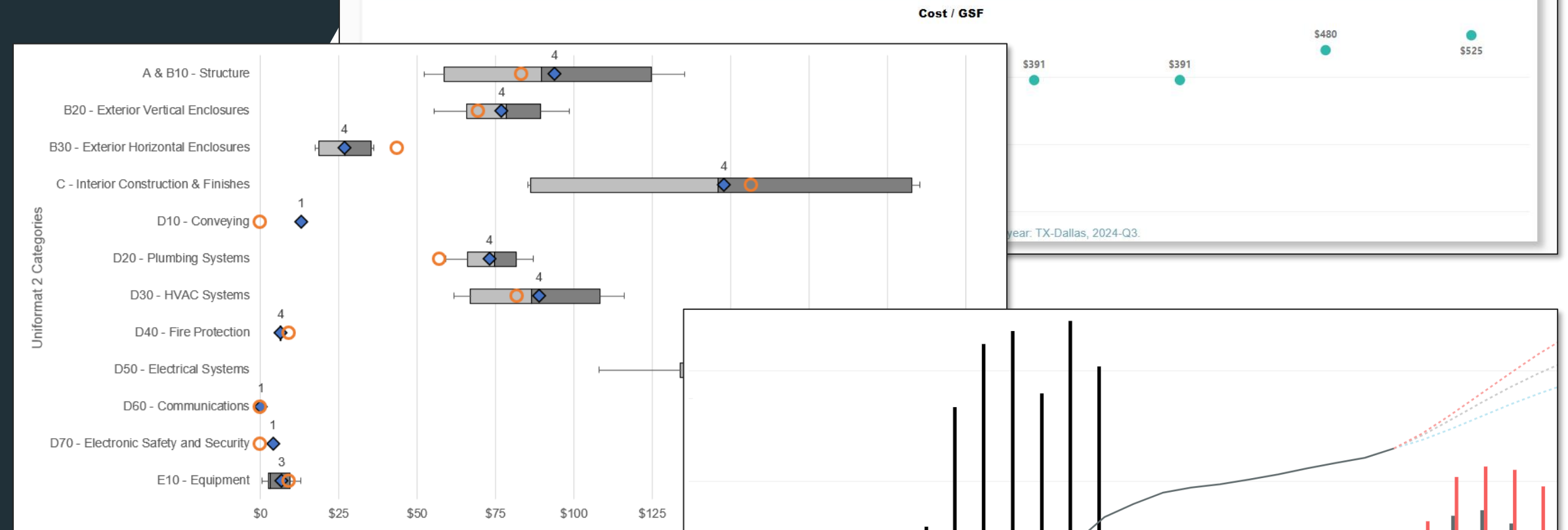
- Diverse Market Sector Expertise
- 110+ Years of Construction
- 30+ Year Partner with Beck Tech
- 25+ Years with Architecture
- 1,000+ Employees in USA & Mexico
- 200+ Architecture & Design Staff
- 6 National Precon Staff
- 30 Regional Precon Staff



Conceptual Tools

- Component Benchmarking
- System Benchmarking
- Escalation Forecasting
- Integrated Estimating Process Revit + Estimator

 Regis Univ. DeSmet Hall Addition Student Housing Building S/Area \$525 /GSF Area 39,900 GSF Adj Cost \$20.9 M Job Length 16.3 Mo Location Denver, CO Start Year 2019	 Baylor East Village Teal Residential College (North Building) S/Area \$391 /GSF Area 119,200 GSF Adj Cost \$46.6 M Job Length 7.2 Mo Location Waco, TX Start Year 2012	 Baylor East Village Earle Hall (South Building) S/Area \$391 /GSF Area 119,515 GSF Adj Cost \$46.8 M Job Length 7.2 Mo Location Waco, TX Start Year 2012	 USF St. Pete Student Housing & Dining Dorm Building S/Area \$328 /GSF Area 134,093 GSF Adj Cost \$44.0 M Job Length 16.3 Mo Location St. Petersburg, FL Start Year 2019	 TCU Colby Hall Renovation Dorm Building S/Area \$305 /GSF Area 74,522 GSF Adj Cost \$22.7 M Job Length 13.2 Mo Location Ft Worth, TX Start Year 2014	 TCU Worth Hills Village Phase I Dormitory Building S/Area \$385 /GSF Area 148,032 GSF Adj Cost \$57.1 M Job Length 14 Mo Location Ft Worth, TX Start Year 2012	 TCU Worth Hills Village Phase 2 Building 3 S/Area \$364 /GSF Area 65,938 GSF Adj Cost \$24.0 M Job Length 12.5 Mo Location Ft Worth, TX Start Year 2013	 TCU Worth Hills Village Phase 5 Dormitory Buildings S/Area \$480 /GSF Area 233,830 GSF Adj Cost \$112.3 M Job Length 17.2 Mo Location Fort Worth, TX Start Year 2016
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The Art & Science of Conceptual Estimating

Introduction to
Holder Construction

Quick Points



Company

- GC/CM
- Main markets are data and aviation
- Also Public Assembly, Higher Education, Science and Tech, Office, and Interiors
- One company – national footprint
- 95%+ Repeat clients
- ~\$8.5B this year
- ~2000 associates

Preconstruction

- 110+
- National department – presence in every office
- Focus shift from generalist to specialist



The Art & Science of Conceptual Estimating

Introduction to
Sundt Construction

Who We Are HISTORY

*Founded in 1890 in Las Vegas,
New Mexico by Mauritz M Sundt,
we have grown to become one of
the nation's largest and most
innovative general contractors.*



Skill. Grit. Purpose.®

Who We Are TIMELINE



1890

M.M. Sundt
Contractor Building



1950s

Titan 2 Missile Silos
Vandenberg AFB



1966

Launchpad 39-A
Cape Canaveral, FL



1976

Reunion Tower
Dallas, TX



2005

Biodesign Building B
LEED Platinum



2016

Sellwood Bridge
Portland, OR



1943

Los Alamos, NM
built in 14 months



1965

Kitt Peak National
Observatory



1972

London Bridge,
Relocated to Lake
Havasu, AZ



1999

Sundt Foundation
Founded



2008

Butler Water
Reclamation Facility



2018

APS Four Corners



SUNDT IS 100% EMPLOYEE-OWNED

When every employee is also an owner, every decision is built on value, purpose and pride in a job well done.



WATER & WASEWATER



BUILDING



HEAVY INDUSTRIAL & MINING

What We Do
**WHAT
WE BUILD**



CONCRETE



TRANSPORTATION



ADVANCED FACILITIES



RENEWABLES

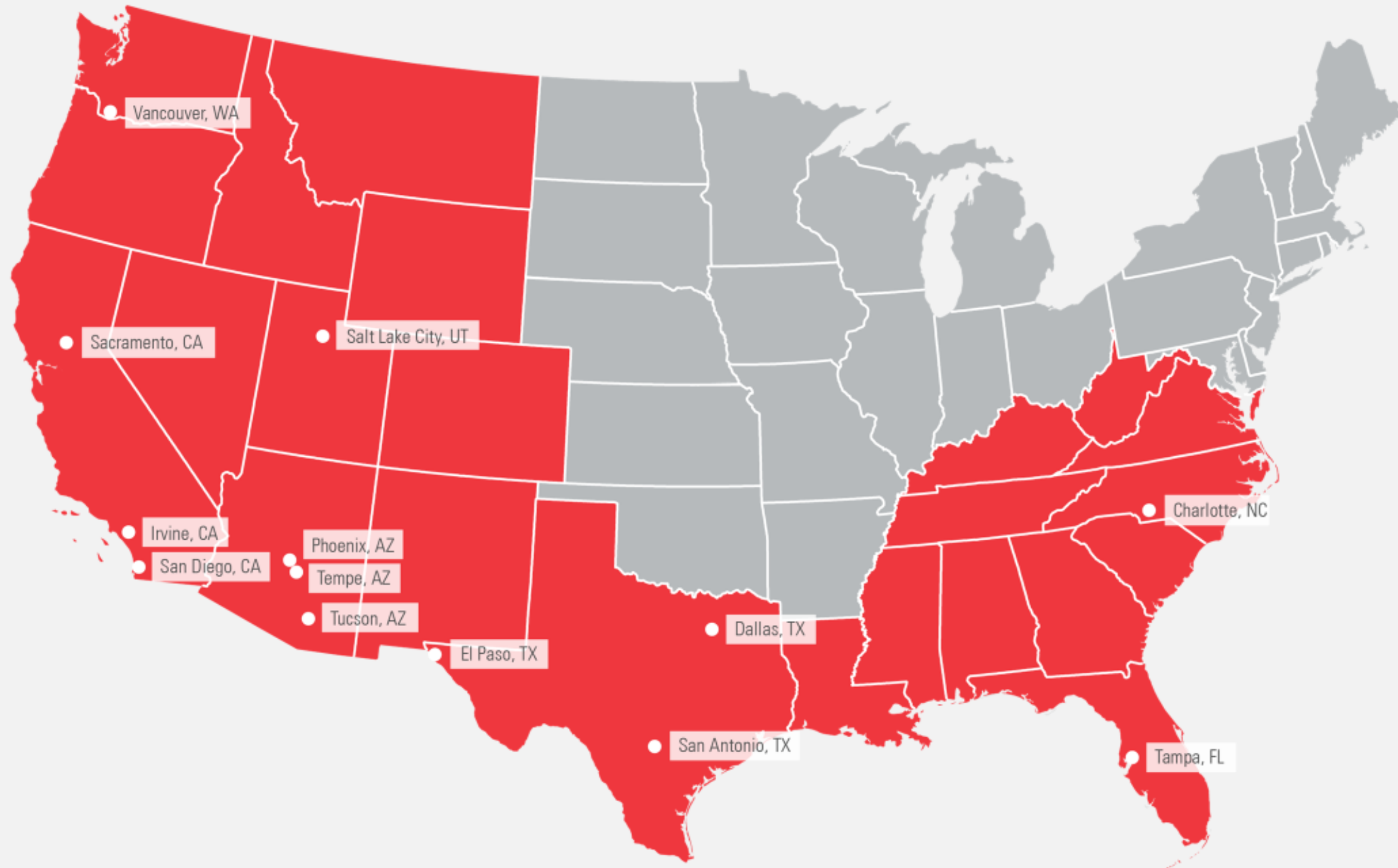
What We Do
SELF-PERFORM

Our self-perform capabilities include:

- Civil
- Commissioning & Startup Services
- Concrete
- Concrete Paving
- Electrical
- Mechanical
- Pipe Fitting
- Pipe Welding
- Quality Assurance and Quality Control
- Structural Steel



OFFICE LOCATIONS



Company
RANKINGS

46TH

*Engineering News Record
Top 400 contractors in
the nation*

41ST

*Engineering News Record
Top 100 Design-Build Firms*

2ND

*Largest Employee-Owned
Construction Company*



Safety



Quality



Integrity



Service



Accountability



Innovation



INNOVATION

We strive every day to better our tools, our processes and ourselves to build better. As our clients evolve, we pioneer new approaches to meet and anticipate their needs.

TOOLS

SUNDT CMT

- ***OUR*** Historical Data
- Compares Similar Project Costs
 - Based on Project Sub Types
 - Mixed Use
- Escalates for Time & Location
- Cost Models & Baseline

