poetic pragmatism

academy of architecture for justice november 2011



maricopa county court tower

phoenix, arizona



VISION Marcus Reinkensmeyer design David Evans focus Thomas Perica

construction Todd McMillen



vision

Marcus Reinkensmeyer



shared vision

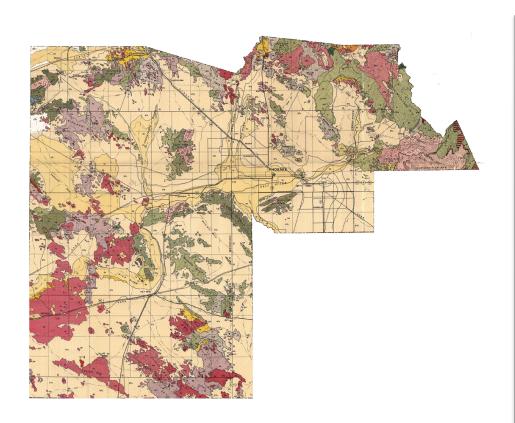


shared vision



functional responsive therapeutic celebratory civic

maricopa county court masterplan

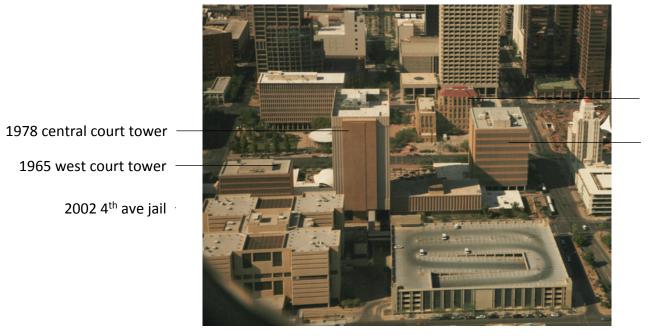


- new downtown court tower
- downtown court campus
 jury assembly
 secure prisoner movement
 secure judicial parking
- synergies of co-location
- enhanced victim services
- leverage of court technologies

1929 population: 150,970



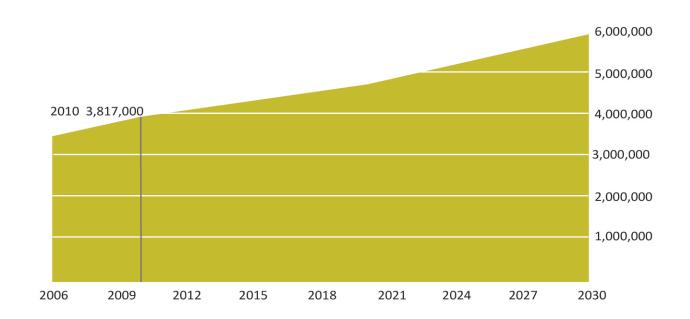
2007 population: 3,700,700



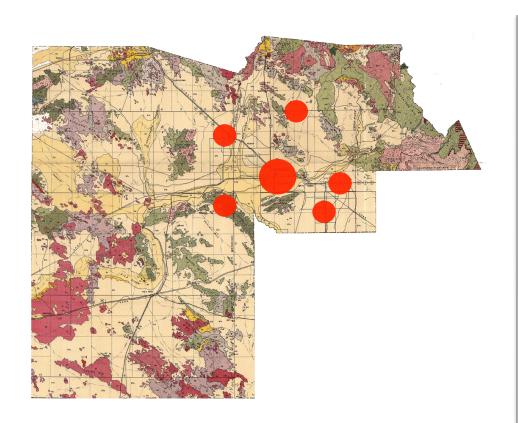
1929 historic courthouse

1965 east court tower

maricopa county population projection

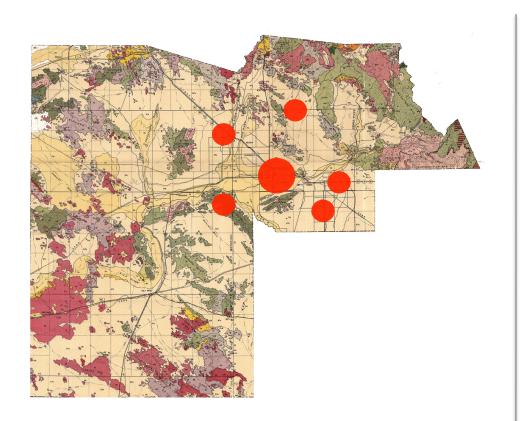


maricopa county court masterplan



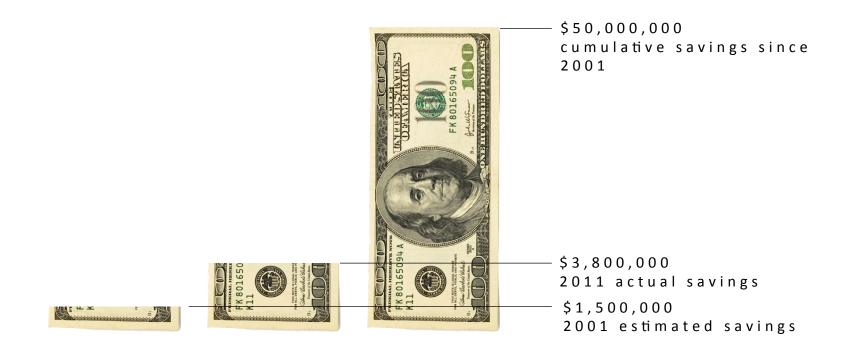
- full service downtown court complex
- regional centers
- collaborative business process re-engineering
 - regional court center rcc
 early disposition court edc

re-engineering tangible results



- rcc or edc: 90% of all felonies
- 60% of cases resolved in rcc or edc 50% of filings
- in 2010 50% of all cases terminated within 28 days compared to 100 days in 2011

re-engineering tangible results

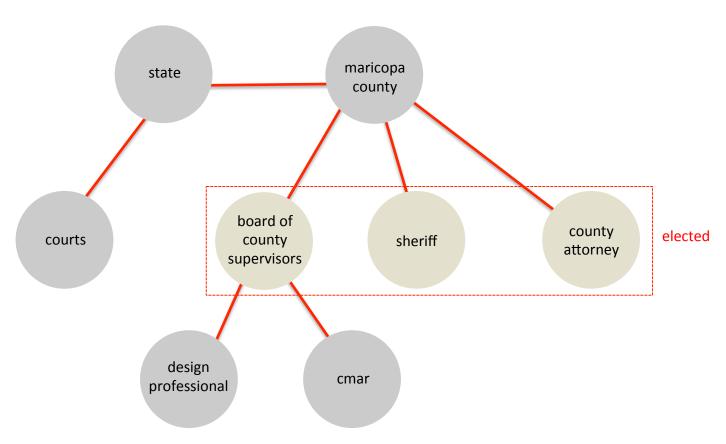


focus

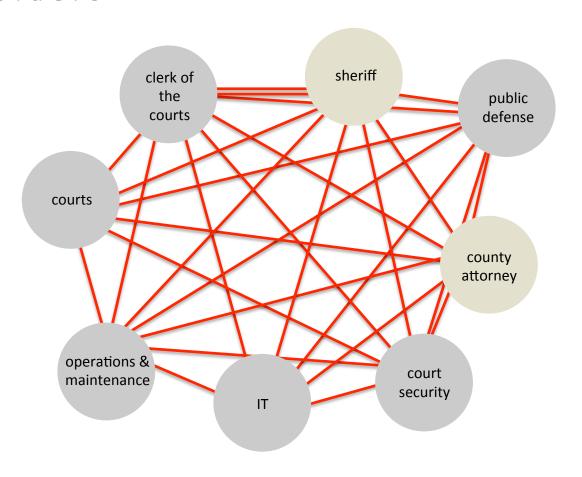
Thomas Perica



political environment



stakeholders



stakeholders



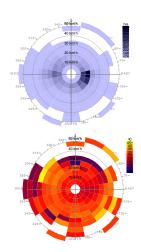




- downtown court tower focus
- inclusive stakeholder meetings

program development





- base building
- best practices & peer review national center for state courts

process re-engineering

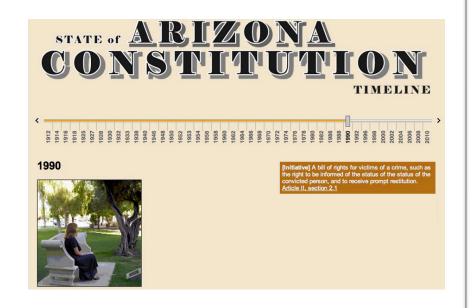
- behavioral research
- high performance systems

program drivers operations



- consolidated rcc/edc court programs
- jury assembly for the downtown court complex
- holding for the downtown court complex
- improved safety
- high performance systems

program drivers victims



• article II, section 2.1 victims bill of rights

program drivers "..environments can calm, reduce stress.."

Psychosocial Value of Space

by Judith Heerwagen

J.H. Heerwagen & Associates, Inc.

What would a building space look and feel like if it were designed to promote psychological and social well-being? How would it affect the senses, the emotions, and the mind? How would it affect behavioral patterns and sense of community?

For insights, it is useful to look not at buildings, but at zoos. Zoo design has gone through a radical transformation in the past several decades. Cages have been replaced by natural habitats and geographic clustering of animals. In some places, the animals are free-ranging and the visitors are enclosed in buses or trains moving through the habitat. Animals now exist in mixed species exhibits more like their natural landscapes. And, as in nature, the animals have much greater control over their behavior. They can be on view if they want, or out of sight. They forage, play, rest, mate, and act like normal animals.





New zoo design has replaced animals in cages with naturalistic habitats and

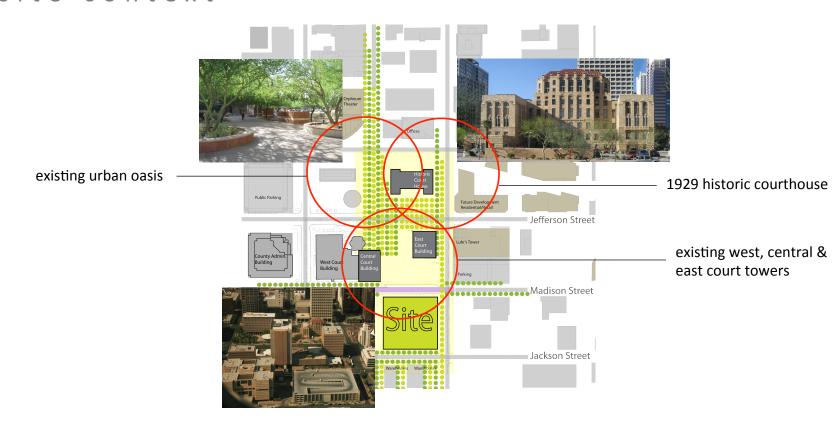
What brought about this transformation in philosophy and design? A key factor was concern over the animals' psychological and social well-being. Zoos could keep animals alive, but they couldn't make them flourish. Caged animals often exhibit neurotic behaviors—pacing, repetitive motions, aggression, and withdrawal. In one famous example, an animal psychologist was hired by the Central Park Zoo to study a polar bear that spent the day swimming in endless figure 8s in its small pool. This was not normal polar bear behavior and the zoo was concerned about it. After several days of observation, the animal psychologist offered a diagnosis. The bear was bored. To compensate for this unfortunate situation, the zoo added amenities and toys to the bear's enclosure to encourage exploration and play.

Are there lessons from the zoo that we can apply to building design? The answer is clearly "yes." Key lessons, applicable to all building types, include the following:

- Look beyond survival to well-being
- Build on "primitive preferences" and connections to nature
- . Design for the senses as well as the body.

- views of nature
- daylight
- exterior views

program drivers site context



key program elements



695,000 gross square feet

32 court rooms

8 rcc/edc

4 initial pre-trial

12 standard

4 large criminal

4 aggravated dui

safety - separate circulation paths for judges, public & in-custody

jury assembly for the entire downtown court complex

sallyport & in-custody holding for 1,337, serves the entire downtown court complex

secure judicial parking

collegial judicial chambers

victims & witness special waiting areas

clear wayfinding & paths for each building and entire court complex

enhanced connections to central and east court towers

design

David Evans



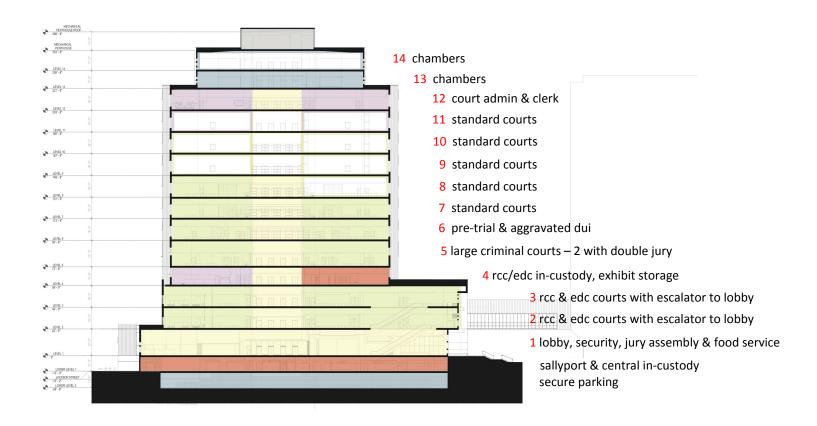


functional responsive therapeutic celebratory civic

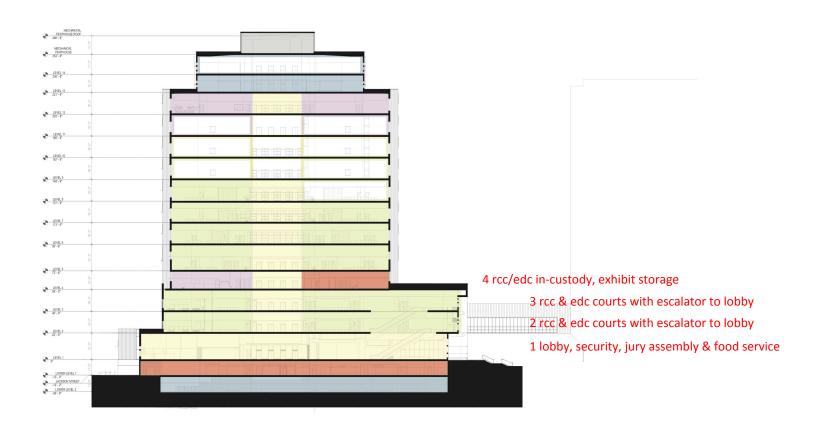


functional

stacking



stacking

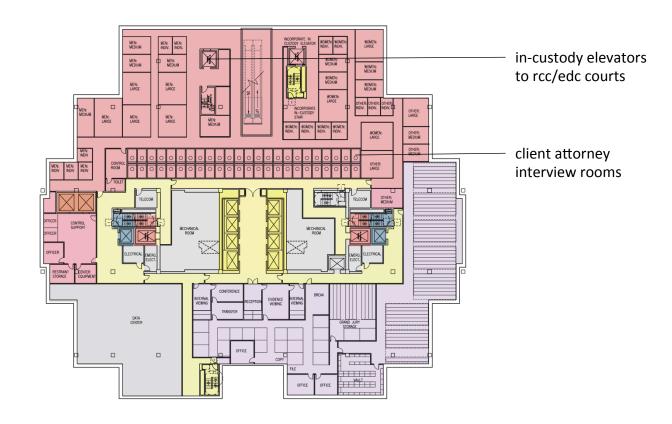




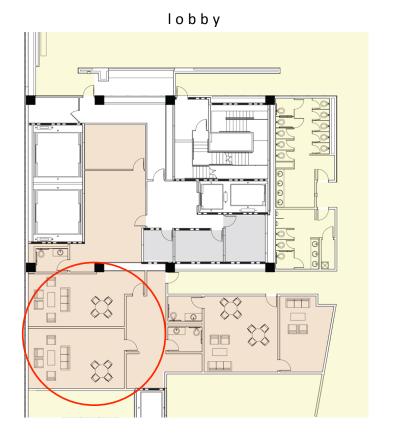
levels 2 & 3: rcc & edc

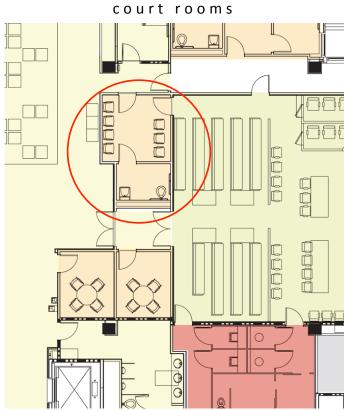


level 4: rcc & edc in-custody level



designing for victims





technology



- state of the art
- improved microphones
- DVD-quality video recording
- electronic exhibit display for jurors to view exhibits simultaneously
- video/telephonic communications for court appearances
- remote interpreter program access in all courtrooms via video



responsive



- building orientation
- use of ingenious materials
- energy modeling 17% reduction in energy usage
- 95% of construction material recycled
- on track for LEED gold



therapeutic

daylight



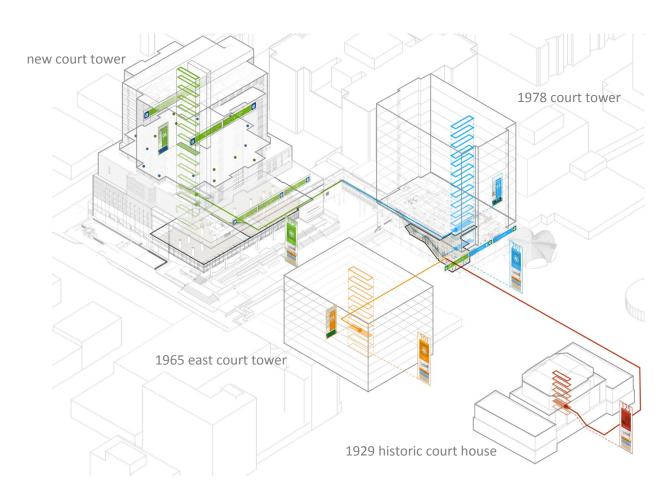




daylight



wayfinding



wayfinding



positive distraction





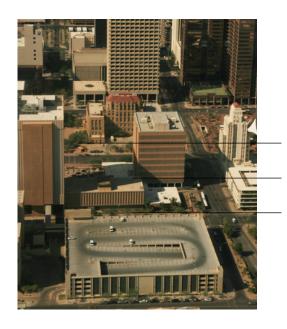




celebratory

civic

open plaza



extend urban oasis
demolition vacant jail
close madison street



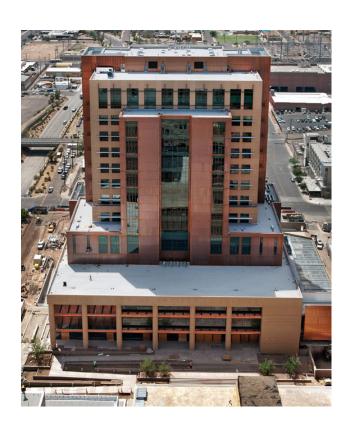


construction

Todd McMillen



project delivery & construction cost



- cmar delivery
- gmp 1 sep 2008
- gmp 6 may 2010
- substantial completion 11.11.11
- 14 february 2012 targeted grand opening
- \$261,000,000 actual construction cost
- \$375/square foot

integrated project delivery

Larry Bryant Preston Bryant Darren Bryce Kevin Bucholz Scott Anderson Julio Mica Gina Poppe Ashlay Smith Alan Smithee Steve Valer Steve Vakelich Angela Womack Kevin Yelton Nora Adams Scott Adams Brien Boucher Nelson Clark Brian Conway Andy Cupples Paul Dana Tom Donaghy Chris Ellersick Terry Drake Greg Drumm Joel Duarte Norman Duarte Jenny Buckley on Buerger-linden Shelly Bunn Ken Burt James Cox Walter Crabtree Chris Craig Mark King Eric Kinser Steve Kintzel Gene Kirkland Omar Lopez Alejandro Lopez Enrique Lopez Andrew Lopez Jose Romero Paul Romero Adam Romine Julia Rosa Larry Stilles Curtis Stoker Talacius Stokes Brian Stokes Amy Rex Joy Rich Jennifer S. Rock Jonathan Anderson Bob Anderson Bernardo Andrade Mariano Becerra Chris Beck Brian Beckles Juan Carlos Flores Luis Flores Jose Flores Ephraim Martinez Frank Martinez Steven Martinez David Middleton Rlaine Nichelso Robert Harriso Mike Hart Lorenzo Mier Luis Miguel-vela Richard Milcke Patrick Nickel Ramona Nicula Jimmie Peace Randy Peck William Pedersen David Ramos Marco Ramos Gregory West Billy West Ruben Westfall Sergio Ramos-zapata Jay Randall Kirk Raphiel Enrique Rascon Jeff Rasmussen Lorenzo Rodriguez Pedro Andrade Todd Harting Rob Irving Rafael Martinez Carlos Nieves Jeffrey Sears Angel Urbalegu Gene Kirkland
Dan Kiska
Joseph Kistner
Matt Kitchen
Jason Anthony Klabis
Kyle Klapproth
Derrick Klassen
Joseph Klee
Kull Klassen Bruce Irwin Jeff Jacka Dale Jacks Margaret Mike Jeffrey Milan Richard Miles Neil Miller Aaron Miller Kirk Stokes John Stone William Stone Derek Storebraker Bob Calhoun arlos Daniel Carrion Alfonso Castillo Steven Hartman Josh Hartman Howard Harvey Edward Martinez Gerardo Martinez Ramon Martinez Robert Nixon Gregory Noland Joe Nonno Jose Pedroza Tim Peech Danny Pehrson Dan Wheeler Landon Whitater Michael Whitater Zamora Andres Canara Porales Tim Rosenow Kelly Roy Michael D. Ryan Patricia Sanderman Genaro Rosales Gerardo Rosales Paul Rose Nathan Rose Marian Catt Yavor Cekov Joe Colaco George Combee Mike Harvey Tedidy Jackson Richard Lonez David Martinez Donaldo Uribe Zecheriha White Ronald Anglada Alvaro Angulo Ismael Angulo Ken Jackson Josef Lopez Ignacio Lopez Juan Lopez Jonathan Ray Elias Raygoza James Raymie Frank Segul Juan Segura Javier Segura Randy Storr Brandon Storr Chris Stoyer George White Josh Whitefoot David Whitehead Ron Saunders Michael Hass Ralph Martinez Thomas Norris Ray Peirson Leonardo Rosendi Brian Vacna Greg Rosky David Ross Jerry Roth Terry Roth Drew Rotherham Travis Rowe Nicole Scheider Patricia Seguin Mark Jacobs Chad Jacobson Rafael Martinez Ivan Martinez Jeffrey Miller Steve Miller Bryce Noyes Octavio Nunez George Peixoto Matt Pelaggi Sylvia Conchos Steve Sheldon Conspcion Angulo Jeff Haymaker Dustten Jagger Karl Klomp Eric Klopf Jim Knapp Michael Knigh Gilbert Lopez Pedro Martinez Casey Miller Rico Nunez David Pellegrino Antonio Recoba Joel Selbel Jody Streeter Francisco Valdez Brandon Whitehorse Larson James Brian James Robert James Fernando Lopez Sam Lopez Ricardo Lopez Jose Martinez Larry Martinez Jose Martinez Francisco Nunez Chris Nunez Tony Pelligrino Thomas Pelsnik Manuel Pena Terry Rector Michael Reddick Brenda Kaloda Sellers Marques Sells Robert Selmo Jeff Sillin Jesus Angulo Juan Valdivia Jackson Whitemark Ward Simpson David Smith Glen Stumm Michael Suedkamp Luis Valencia Oscar Valencia Steven Whitten Jr Shawn Wickershein Paul Smith Vanessa N. Smith Phillip Smith III Correnia Snyder Jose Antonio Sanches Rodolfo Valencia Brad Crane Lynda Cull Vonda Culp Gilbert Apaloca Paul Valentine Robert Aparicio Keith Apses Tad Cybulski Jordan Dacquisto Joe Spada Jose Apuricio Santiago Valle BIII Sparks David Stadik Jason Stadik Kim Stafford Felix Valle Jose Valle Ancelmo Vallejo Chris Van Damme Margarito Araiza Anthony Arambul Juan Arbizu Zach Dal Pra Tom Daley Dave Davis Mark Arbizu Norman J. Davis Rchard De Uriarte Ted Decker John Dlouhy Donald Stapley David Stevens Nicolas Tahtouh James Arbuckle Frank Archuleta Gumaro Arellano Martin Arellano Robert Vance Ronald Vancs William Vanderberg Billy Williamson Rick Williamson Robert Willis Henry Pittner Tracy Puddy Mike Violette Russell Terry
Abe Thomas
Don Thompson
Debbie Thompson
Norbert Tokaroki
Alex Tsuji
Miled Tufel
Stave Tweedy
Neil Urban
Neil Urban Oz Wagner Craig Weitzel Barry Williams David Sissom Denise Fong Shannon Glover Brett Vandermeer Martin Willis Brad Vandermolen Bradley Vandermolen David Vanderpool Samuel Vanegas Gloria D'romero Garren Echols Ron Ecker Jose Areuhs Moises Arias Rogelio Arias Kay Willis Jefferey Wilson Parker Wilson Phil Ellsworth Larzaro Arivzo Gildardo Arizmendri Brian Wilson Laura Eng Cynthia Estrella Tom Ewers Brett Vanvalkenburg Favian Varela Jose Varela Dan Wilson Reid Wilson Erickson Wilson Rickardo Armas Emanuel Armboy Amie M. Schillinge Barth C. Ballard Bo J. Sampson Casare A. Farace Christopher R. Chas Daniel J. Grammier Keely Farrow Lynn Favour Bryan Armenda Victorino Vargas Bryan Wilson Victorino Vargas Christopher Vasquez Mario Vasquez Santos Vasquez Phillip Vasquez Juan Vasquez Christopher Vasquez Arthur Vasquez Bill Vanausdal Kevin Varricchio Rob West Chris Windbigler Thomas Wingo Chris Wise Androw Armoudari Rich Amdt Danny Arnolousser Caren West Kevin Westover Karen Westover Carol Westwood Rebekah W. Francis Jasus Arnold Rosas Krista Wismolor Erkan Bisevac Eva L. Ramos Jessica Gifford Funkhouser Hugh Gallagher Carl Gerchick Frick Arredondo Marco Arreolla Brian Arrowood Shane Wiss Gary A. Brennen Steve Witkowski Gerald D. Hartford J Dan Whelan Von Arthur Adrian Vazquez Greg Witten Gerardo R. Bill White Barry Williams Rhys Williams Julie Williams Martin Vazquez Greg Wolfe Jamett Wolford J. Albert Goncalw Jaime Baltazar Salvador Vazquez Alfredo Vega Gene Guidas Abimael Arvizo Tony Womack Jeff Sena Julie Williams
Max Wilson
Sandi Wilson
Deborah Wilson
Chris Wood
Dustin Woods
Chang-ming Yeh
Dennis Mack James J. Haas Bill Hahn David Hale Matilde Arvizo Abdel Arvizo Jeremy Vega Martin Vega Jose Vega Julio Vela Tim Wood Timothy Wood Aaron Wood Joel G. Palaylay Joey V. Gabuya John R. Moran, III Kenneth Asaro Daniel Hansen Steve Ashdown Daniel Wood Kia A. Pennebake Randy Hansen Kenny Harris Kelly Hartshorn Malcolm Ashley Brian Astleford Salvado Vela Salvador Vela Mario Velazquez Kristopher Baker Logan C. Dorrell Mark D. Hansen Rafael Astorga Unidas Woody Mike Havens Tom Hedges Justin Pascarella Mercado Luis Velo-Legarreta Jerimiah Wooley Kevin Cook Frank Atono Javier Velo-Legameta Michael J. Wilso Eduardo Atlano William Atwell Tom Venberg Luis Ventura Ele Vera Nicki Sparks Paul K. Ericson Shawn Aakhus Faustino Aaoi Ryan Abril David Acevedo Carlos Acevedo Jennifer Heisig Mano Aula Henry Yane Ramona C. Nicula Rafael Avaios Daniel Verbrugge Jose Verdin Aguila Angel Verdoza Robert J. Bolin Jesus Yanez Marc Yankelowitz Luis Avechuco Pi Jeff Hood Chin Huang Jamle Hunter Martin Acosta Jose Avila John Verdugo John Verdugo Sonia Vergel John Yanora Rodney R. Knepke Rogelio G. Huerto Steven M. Tredinnic Derek Anderson Benjamin Gies Daniel Acosta Garcia Cutzberto Acuna Jose Adame Willis Yazzie Earlson Yazzie Willis Yazzie Timothy Verhoever Alfreado Vidal Luis Vidrio Thomas Vieira Jerry Vig Benjamin Vigil Brian Hushek Christopher Adams Francisco Ayalı Casey Adams Zach Adams Jacob Adams Nate Adams Joseph Aysien Jameson Ayze Adam Baber Michael Babota Jose Delcruz Ciro Delfin Ben Demarbieux Chris Demay William Exley
Adam F.
Jorge Facio
Steven Fandrey Manuel Herrera Ramon Herrera Jr Amador Herreras Wayne Herrmann Cody Lazenby Michael Leblanc Femando Lebron Heriberto Ledezma Richard Morquech Greg Morris Jim Morrison Alfred Mort Albert Ortiz Jorge Ortiz Jose Ortiz Albert Ortiz Iv Karjhjm Yazzie Jeremy Yazzie Benjamin Yazzie Uriah Yellowhorse Buford Goff Frances Hook John Kaiser Keith Summer Thomas K. Irvine Donna Isaac Keith Jones Donald Jones Jose Maemoleji Jose Magana Todd McMillan Eladio Garcia Gary Garcia Joel Garcia Daniel Pompa Kris Pompa Abel Ponce Matthew Poole Raul Rivera Cesar Rivera Jacob Rivera Joseph Sanchez Ernesto Sanchez Joshua Sanchez Luís Sanchez Justin Smith Mark Smith Daniel Smith Nathan Toland Brian Tongen Doug Tongen Shawn McMillan Jason McMurren Brad Blair Robert Blakesley Martin Cardenas Andre Cardiel Arthur Carey Oscar Guerrero Patrick Guerrero Sergio Guerrero Michael Jackson Jose Calos Collazo Jesse Magdaleno Michael Magee Cody Jones Juan Collazo George McMurren

design assist



- pre-cast concrete
- copper skin
- glazing
- structural steel
- fire sprinkler
- electrical
- mechanical
- security
- fire alarm

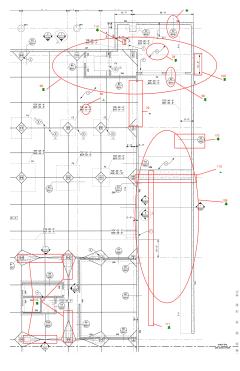
building information modeling



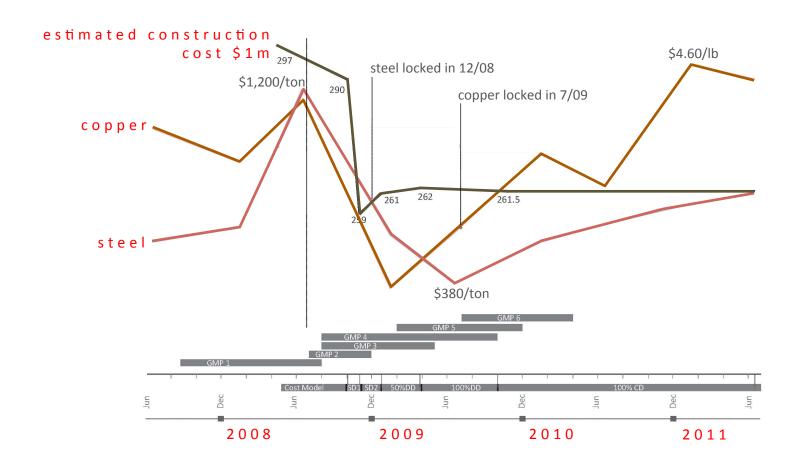


inter-disciplinary document coordination





volatile commodity market



maricopa county court tower - video

phoenix, arizona



