BUILDING THE FUTURE
BUILDING YOUR FUTURE

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Wilshire Grand – Los Angeles, CA
PNB118 – Kuala Lumpur, Malaysia
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THE WORLD AS WE KNOW IT TODAY
WHAT IS THIS MOMENT IN TIME TEACHING US…

Anything can happen at any time…be prepared

While you may be prepared, nothing is certain…be adaptable and flexible / embrace change

Anxiety can keep you down or it can propel you forward… Choose to focus on the positives

Spend this time to evaluate the values you bring not through your major but rather through your experiences. Explore the various options that exist.
HOW DO WE USE THIS TIME TO SHAPE OUR TOMORROW – Focus on the positives

Dramatic satellite footage shows drop in air pollution over Italy

LA's Air Quality Is Better Than It's Been in Decades

NPS: With no visitors, bears in Yosemite are thriving
FUTURE WORLD VISION
Infrastructure Reimagined

https://www.futureworldvision.org/
WHAT IS THE FUTURE OF THE AEC INDUSTRY

PREFABRICATION

SAFETY

INTRODUCING

SMART CITIES

SUSTAINABILITY

A.I.
WHAT IS THE FUTURE OF THE AEC INDUSTRY

The Growing World of Design-Build

Design-build (DB) will comprise 44% of construction spending between 2018 and 2021. During this time, DB construction spending will grow by 18% and reach over $320 billion.

Integrated Project Delivery (IPD)

The Growing World of Design-Build

OWNER’S BUSINESS CASE

- COMMISSIONING & PERFORMANCE
- ARCHITECTURE/ENGINEERING
- PROJECT MANAGEMENT
- CONSTRUCTION MEANS & METHODS
- Estimating/Purchasing
The Top Contractors in General Building

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ACROSS THE COUNTRY

WORLD TRADE CENTER 2

OBAMA PRESIDENTIAL CENTER

LA RAMS STADIUM

NY YANKEES STADIUM
OTHER HIGHLIGHTS: DIVERSITY & INCLUSION

10,000 STAFF
46 OFFICES
INTERNATIONAL DIVISION
ACTIVE WORK ON
EDGEWOOD CAMPUS

250K SF Cancer Care Center
3-Story C-Tower Overbuild
500+ Car Parking Garage
SICU Expansion

$130M+
OUR CLIENTS / PARTNERS / FRIENDS

LEVERAGING OUR RESOURCES TO BUILD A BETTER FUTURE
BUILDING MORE EFFICIENTLY: PREFABRICATION / MODULARIZATION

Helping our clients optimize their project
HELP THE BAHAMAS NOW

BUILDING MORE EFFICIENTLY: DISASTER RELIEF

Helping our communities get back on their feet
Members of the SBP Team

Turner is helping SPB, a nonprofit disaster relief organization, bring families home 25% faster while improving the buildability, affordability, and adaptability of new home construction.

Three working groups emerged from our New Orleans SBP workshop. An update on each is provided below.

Group One: Warehouse Optimization – The warehouse is the hub of the SBP’s operations but the team identified that it was largely being underutilized. Group one focused on optimizing this space: applying a 5S approach, they designed an efficient floorplan that includes dedicated production space for panel prefabrication. This enhancement will enable SPB to utilize volunteers to build panels safely and efficiently within the controlled warehouse environment.

Group Two: Panel and Prefab Process Improvement – Group two designed and built prefabricated wall panel jigs that can be used across SBP’s existing home designs, accelerating the home building process, and empowering their volunteer workforce. SBP has since established prefab units within their warehouse and tested the new panel jigs with volunteers. Group two will be meeting with SBP to review the results of these initial tests and identify next steps.

Group Three: Program Plan Efficiencies Alignment – Group three worked on optimizing the design of future homes. They reviewed and challenged existing designs, identified program requirements, and developed a ‘basis of design’ document that SBP can adjust to future needs and market conditions. Since the workshop, SBP developed a new home design using plan examples and the basis of design document created with the Turner team. Group three will be meeting with SBP to review the new home design and identify next steps.
BUILDING MORE EFFICIENTLY: DISASTER RELIEF

Working TOGETHER to make a difference
BUILDING SAFER: SAFETY – PPE (Personal Protective Equipment)
BUILDING SAFER: SAFETY – SMART GARMENTS

E-TEXTILES / RESPONSIVE CLOTHING
COLOR CHANGING GLOVES
SARCOS FULL BODY EXOSKELETON: Battery-powered, lasts 8 hours, lets users lift 200 pounds
Turner is redefining sustainability and elevating what it means to be a “green” builder.

We will utilize our technical expertise to create a healthy, prosperous and sustainable future for our people, clients and the environment.

Three pillars support achievement of this vision.

**Environmental Efficiency**
We will be responsible in the use and protection of natural resources.
We commit to reduce the greenhouse gas emissions and water consumption of our on-site construction operations by 50 percent by 2030.

**Resiliency**
We will protect and promote personal health and safety during the construction process.
We will increase our technical expertise in resiliency to support critical decision-making to provide for the long-term comfort, livability and sustainability of buildings and communities.

**Green Building**
We will achieve the environmental goals for our projects.
Our people will continue to learn and grow their knowledge and experience in innovative green technologies and processes.
SUSTAINABILITY: NET ZERO

FIRST NET-ZERO PROJECT IN THE REGION

COMPLETED IN 2010

TURKEYFOOT MIDDLE SCHOOL
EDGEWOOD, KENTUCKY
SUSTAINABILITY: NET ZERO → NET POSITIVE

ONE OF THE WORLD’S FIRST CERTIFIED LIVING BUILDINGS BY LBC

Received a four-star rating -- the highest level of recognition -- from the Sustainable Site Initiative (SITES)

LEED PLATINUM CERTIFICATION

PHIPPS CONSERVATORY – CENTER FOR SUSTAINABLE LANDSCAPES PITTSBURGH, PA

Turner
Building the Future
SUSTAINABILITY: NET ZERO → NET POSITIVE

NET POSITIVE + LEED PLATINUM

4,900 SF

Returns approximately 14,000 kW hours / year back to the grid = enough energy to power a 1,600-square-foot house for a year

PNC BANK BRANCH
MIAMI, FLORIDA
BUILDING SMARTER BUILDINGS THRU TECHNOLOGY: HABITABLE COMPUTERS
BUILDING SMARTER BUILDINGS THRU TECHNOLOGY: DIGITAL ENERGY DASHBOARDS

INFORM & INFLUENCE    MONITOR & ADJUST    INFLUENCE & CHANGE
SUSTAINABILITY: CIRCULAR ECONOMY

“A WORLD WITHOUT WASTE”

Linear Economy

take → make → use → dispose

Technical

Biological

Circular Economy

Technical + Biological Nutrients mixed up
Energy From Finite Resources

Living Systems
Energy From Renewable Resources

PARTNERING WITH: ARUP + Google
"BUILD THE BUILDING NOT ONLY OF RECYCLED MATERIAL BUT CONSTRUCT IT IN A WAY THAT THE BUILDING ITSELF IS RECYCLABLE"
BUILDING SMARTER BUILDINGS: Materials

Transforming buildings into air scrubbers
Coca-Cola Philippines in collaboration with World Wide Fund For Nature (WWF) unveiled the first ever billboard designed to tackle air pollution. The billboard is 60X60-feet and it towers over the city at a perfect height to make a difference.

Fukien tea plants cover the billboard’s surface area. The billboard on the whole can absorb 46,800 pounds of carbon dioxide. This means a drastic decrease in the number of illnesses related to inhaling pollutants. The truly amazing part of the structure is that it is made entirely from recyclable materials. Old Coca-Cola bottles were used to act as the support or to serve as pots for the plants, attaching them to the frame.
BUILDING SMARTER BUILDINGS: INDOOR ENVIRONMENT
Will Autonomous Vehicles Usher in a Spotless Future?
BUILDING SMARTER COMMUNITIES: The Power of Wi-fi

INTRODUCING PALO

Creating Open Place
BUILDING SMARTER: SOLAR POWERED WI-FI

Drones with 82-foot wingspan
INCUBATE INNOVATION
BUILDING THE FUTURE: Emerging Intelligence

Virtual Reality

Artificial Intelligence
NYU launches center for construction innovation at Brooklyn campus

By ALI ORIAKU • March 1, 2019

Construction companies have had a history of resisting change and new technologies, especially when it comes to financial and safety concerns. But within the past few years, advancements in construction technology have pushed companies toward modernizing their practices, integrating 3D printing, data analytics, artificial intelligence, laser scanning, modularization, and robotics into their latest projects and developments.
QUOTES FOR BUSINESS + SELF

SEEK TO ‘BEND’ THE INDUSTRY

LOVE THE PROBLEM, NOT THE SOLUTION

CREATE MORE WITH LESS

EXPERIMENT – HYPOTHESIS, EXPERIMENT, CONCLUSION

STRETCH YOURSELF - GREATNESS BEGINS BEYOND THE COMFORT ZONE

SEIZE THE VALUE YOU BRING TO THE TEAM
BUILD YOUR CAREER

The amazing things you will do and see
BUILD YOUR CAREER

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The amazing things you will do and see
WHAT ARE YOU LOOKING FOR?

1. Innovation
2. A creative and dynamic work environment
3. Leaders who will support my development
4. Professional training and development
5. Inspiring purpose
6. Leadership opportunities
7. Secure employment
8. High future earnings
9. Respect for its people
10. Clear path for advancement
I entered the world in the wake of 9/11.
I graduated during a pandemic.
I am more empathetic than other generations.
I am independent and inclusive.
I am hopeful but yet realistic and I see the world for what it is.
I understand that the celebrations will have to wait and I am ok with that.
I am mature beyond my years.
I am proud of who I am.
YOU WILL TAKE ON THE WORLD
AND WE CAN’T WAIT TO WATCH IT HAPPEN
COME JOIN OUR TEAM

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