

DESIGN-DRAWINGS-CALCULATIONS- CONSTRUCTION MANAGEMENT

INTELLIGENT 4D BUILDING-INSPECTION

Architectural Engineering-Structural Engineering-Civil Engineering-Mechanical Engineering

Electrical Engineering-Plumbing Engineering-Environmental Engineering

Health Care Facilities-Aeronautical/Aerospace Engineering-Mineral Plant

Naval architectural & Marine Engineering-Nuclear Energy Engineering-Chemical Plant

Geotechnical & Testing-Fire Sprinkler System-Industrial-Commercial-Residential

Highway Bridge Traffic Engineering-Plant-Power Plant- Green Energy

Water & Waste Water Treatment Plant-Science & Technology-Naval/Marine/Aviation



Bijan Abidian, MS, EI, CGC, HI

CGC 061918

HI 5625

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**Structural/Architectural/Civil/Mechanical/Electrical/Plumbing/Aviation/Marine/Environmental/
Health Care Facilities-Petroleum/Nuclear/Traffic/Fire Sprinkler/Industrial /Technology
Scale Modeling Prototype Project/Construction Management**

AREA OF SPECIALIZATION:

Complete engineering design, drafting, details, 3D, analysis, calculations, value engineering, & inspections for commercial, residential, industrial all type project.

Structural: Industrial, Commercial, Industrial, Highway Bridge, High-rise, Temporary Structures.

Geo-Structural: Foundation, Piling, Sheet Pile, Retaining Wall, Earthwork, Bracing, & Tieback.

Geotechnical: Subsurface Investigation, Soil Testing, Excavation, Settlement, Sinkhole, & Mitigation.

Mechanical: Industrial, HVAC, Plumbing, Utilities, Facilities, Material Handling, Fire Sprinkler.

Electrical: Power, Wiring, Lighting, Utilities, Facilities, Protection, & Photometric.

Site: Storm Water, Water CAD Modeling, Sanitary, Septic, Water, Fire Hydrant, Paving, & Road.

Civil: Water & Waste Water Treatment, Land Development, Environmental, & Traffic Engineering.

Aviation & Marine: Vessel, Shipyard, Docking, Airport, Aircraft Hanger.

Industrial: Power Plant, Chemical Plant, Cement Plant, Mineral Plant, Solar & Wind Turbine Energy.

Inspection: Special, Structural, Building, Forensic, Home, MEP & Facilities.

Petroleum/Nuclear: Power Plant, Steam Turbine System, Marine, Condensing System, Damage Control.

Standard Code: FBC, ICC, AISC, ACI, ASCE 7, NDS, AASHTO, FDOT, IBC, NEC, NFPA, ASHRAE.

Product Approval: Door, Window, Roof, Shutter, Awning, Canopy, Railing, & Innovation.

Presentation Project: AutoCAD, Revit A/S/MEP, Sketch Up, MicroStation, SolidWork, Civil 3D, BIM, NavisWorks, 3D Analysis, MathCAD, RAM, EnerCalc, STAAD, RISA 3D, ETAB, SAP, Elite, GeoStudio, Word, Excel, MS Project, Primavera, CPM, Power Point, Photoshop, & 3D studio.

Consulting Engineering, Construction Management, Design/Build, Solving Problems, Estimating, Scheduling & Value Engineering.

Atlantic Construction Engineers, LLC, Florida, Vice President

August 2023 to Present

A & A Design Group, Inc., Florida, Vice President

May 2010 to Present

American Design Construction Inspection LLC, President

February 2017 to Present

VLC ONE, INC., Project Director

October 2019 to Present

B.P. Taurinski Structural Engineers, Project Consulting

March 2015 to Present

Prepared architectural, structural, civil, & mechanical, electrical, plumbing, coastal, marine, bridge, geotechnical, environmental, & green engineering design, calculation, drafting, estimating, scheduling, construction management & special inspection all type commercial, industrial, residential, & infrastructures project. Please see my portfolio.

Crain Atlantis Engineering, Inc., Florida, Project Engineer

March, 2002 to May 2010

I was responsible to structural, civil, & MEPF engineering design, calculation, drafting, estimating, scheduling, construction management & special inspection all type commercial, industrial, residential, & infrastructures project. Please see my portfolio.

Entege Engineering Tech. Group & Global Tech, Inc., Florida

Oct. 2001 to April 2003

I was responsible to structural & civil engineering design, calculation, drafting, & inspection of public work project, and water & wastewater treatment plant.

Kelly Engineering Resources & Batkin Association, Florida

Oct. 2000 to Oct. 2001

I was responsible to structural & civil engineering design, calculation, drawing, build & special inspection all type commercial, industrial, residential, & public work Palm Beach County project.

Park Structures Inc., Florida **May 1998 to Oct.. 2000**
I was responsible to park recreation and playground structural design, drafting, calculation, & testing.

American Building Engineers Inc., Florida **Jan. 1993 to May 1998**
I was responsible to structural, civil, & MEP engineering design, calculation, drafting, build & special inspections all type commercial, industrial, & residential building.

Wartsial Marine Manufactures Technology **1995 to 1997**
Director of transfer technology from Wartsila Finland to Iran.
Prepared negation with Wartsila Company for Iran facility for 100% design and production ship engines.

Chemical Rubber Industries **1991 to 1993**
Director of Facilities for Production, Maintenance, & Development.
Director of Factories facilities production Plastic, Rubber, Shows, etc.
Development new machineries for future production.

Mineral & Industries Ministry **1989 to 1991**
Project Engineer Advance Technology for Ore & Copper Plan
Research and development ore and copper mineral plan involve with German technology.
Design engineering plant, shovel machine, material handling, silo, dust collector, mixer, centrifugal consternating system, and separation system.

Ship Manufactures, Persian Gulf **1987 to 1989**
Director of Design & Build Facilities and Development
Research and development ship and submarine manufacture at Kish, Chah Bahar, and Abbass Port.
Design engineering plant.

Procter & Gamble Chemical Pant, Tehran, Iran **1985 to 1987**
Project Director Engineer for Facilities and Development Project.
Management production and maintenance chemical production lien
Design and Build new production detergent include, silo, material handling, dust and gas collectors, towers, reactor, mixer, high pressure pump plump, and packaging system.

Electric Industries, Tehran, Iran **1982 to 1985**
Project Director Engineer for Maintenance and Development Project.
Management production line and facilities of manufacture over 5000 employees.
Design development manufacture for new TV and Computer production line.

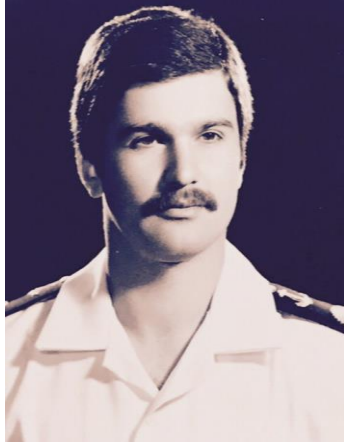
Iran Aviation, Tehran, Iran **1977 to 1982**
Project and Maintenance Engineer for Airports and Aviation.
Teaching Aeronautical and Aerospace Technology at Science & Technology Aviation Collage.
Management for installation airports power plant, utilities, building, runway and taxiway.
Teaching technical courses aircraft design evening at Aviation Collage.

Ceramic Industries, Tehran, Iran **1976 to 1977**
Project Engineer for Maintenance and Development Project.
Design and Installation ceramic production line, silo, material handling, mixer, dust collector, presses, heating room, packaging system.

USA/IRAN NAVY, Persian Gulf

1974 to 1976

Chief Damage Control Commander all Ships, Naval, Battle Ships, Vessel, Ports, and Docking maintenance and Development Projects. Management maintenance all battle ships, aircraft carrier, submarines, docking vessels, Boilers, Turbines, Engines, Distillation Systems, Damage Control, Shipyard Manufactures, Development Ship Manufactures.



USS BATTLESHIP-PERSIAN GULF 1974-1976

PROFESSIONAL CERTIFICATIONS & LICENSES:

NCEES approved for Architectural Engineering P.E. Exam October 2024 (AE/SE/ME/EE/FP)
Florida State Certified Engineer Intern, EIT – General (Civil-Structural-Mechanical-Electrical)
Florida State Certified General Contractor & License CGC 061918
Florida State Certified Home Inspection & License HI5625
Infrared Thermography Imaging Certification
Design Floating Offshore Oil and Gas Certification –SNAME
ISO 9000 & 9001 Quality and Production Management systems Certification
OSHA Construction Industries Health & Safety Certification
LEED AP Qualified / In Progress
IPEMA Certification Playground and Park Recreation

EDUCATION:

University of Florida, M.S. Graduate Courses Civil Engineering
Norwich University, M.S. Graduate Courses Marine Engineering
Florida Atlantic University, Graduate Courses Structural Engineering
Rochville University, M.S. Civil Engineering
University of Science and Technology, B.S. Mechanical Engineering
German Institute of Technology, Engineering
LEED and Green Building Design Courses-USGBC

PROFESSIONAL AFFILIATIONS:

American Institute of Architects (AIA)
American Society of Civil Engineers (ASCE)
Structural Engineering Institute (SEI)
Architectural Engineering Institute (AEI)
Institute of Transportation Engineers (ITE)
Society Naval Architects & Marine Engineers (SNAME)
Association of State Dam Safety Officials (ASDDO)
American Institute Building Design (AIBD)
National Fire Protection Association (NFPA)
Society of Fire Protection Engineers (SFPE)
American Nuclear Society (ANS)
Society of Petroleum Engineers (SPE)

AWARDS:

Design-Inspection: Structural Integrity Building, PCA.
Design-Inspection: Post tension, PCA.
Design-Inspection: Engineering Mass Concrete Structures, PCA.

GRADUATE PAPER & PROJECT:

Master Report Project: **BIO FUEL PLANT ENGINEERING & CONSTRUCTION MANAGEMENT.**
Master Paper: **INFRASTRUCTURES HIGHWAY BRIDGE DESIGN PRESERVATION MANAGMENT**
Master Paper: **DESIGN OFFSHORE OIL & GAS FACILITIES**
Master Design Project: **HIGHWAY CONCRETE BRIDGE, 120 FT SINGLE SPAN & 4 LANE**
Master CEM Project: **TILT-UP WALL CONSTRUCTION ESTIMATING & SCHEDULING MANAGENT**
Master Traffic Engineering Project: **TRAFFIC IMPACT ANALYSIS WALMART SUPERCENTER**
Master Paper: **WIND ENERGY FOR GREEN POWER**
Master Project: **DRINKING WATER FROM WASTEWATER TREATMENT PLANT**

GRADUATE COURSES

Florida Atlantic University:

Advance Structural Analysis
Finite Element Design
Prestressed Concrete Design
Highway Bridge Design
Marine Structural Design
Waste Management
Water & Wastewater Treatment Design
The Science of Energy from GreatCourses.com
Nuclear Physics Engineering from GreatCourses.com

University of Florida:

Temporary Structural Design
Geo I & Geo II Design
Traffic Engineering
Engineering/Construction Project Management I & II,
Public Work and Land Development Management I & II
Construction Planning & Scheduling

FORENSIC INVESTIGATION EXPERIENCE:

Extensive experience forensic investigation working with public adjusters, architects, engineers, developer, general contractors, subcontractors, and Owners follow below items:

Sinkhole, Wind pressure, Seismic, Settlement, Structural cracks, Moisture weather, Electromagnetic field, Radiation, Fire, Expulsion, Geo, Lightening, Up lift & lateral, Flooding, Seepage & Water table, Wave, Machinery, Facilities, Utilities, Design failure, Corrosion, Vibration, Impact, & Pollution damages.

PROFESSIONAL REFERENCES:

- | | | |
|-------------------------|-------------------------------|--------------|
| 1. Reza Javidan, P.E. | Florida Engineering & Testing | 561-460-3473 |
| 2. Jorge Pomerantz P.E. | ING Consulting | 954-583-5197 |
| 3. Vandin Calitu P.E. | VLC ONE, INC. | 954-864-2775 |
| 4. Abe Borujerdi | American Building Engineers | 954-261-1204 |
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INNOVATION:

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| <p>American Design Construction Inspection, LLC New Building Technology USA REDUCE CONSTRUCTION COST & TIME 50%</p>  <p>PRECAST CONCRETE & CONTAINER BUILDING</p>  <p>561-706-5161 PERMIT SOLUTION</p>  <p>Suite Studio Loft USA</p>  <p>Bijan Abidian, MS, EI, CGC, HI CGC 061918 HI 5625</p> | <p>American Design Construction Inspection, LLC Suite Studio Loft USA DESIGN/PERMIT/BUILD/INSPECTION</p>  <p>4D SENSIBLE PRECAST CONCRETE & CONTAINER BUILDING</p>    <p>RENEWABLE SOLAR & WIND ENERGY</p> <p>Suite Studio Loft USA Advantage:</p> <ul style="list-style-type: none"> • Reduce Construction Cost & Maintenance over 50% • Reduce DESIGN/BUILD/CONSTRUCTION Time over 50% • Green USA LEED DESIGN/BUILD • Fast Build after Hurricane/Earthquake/Disaster • Precast Concrete Building <p>561-706-5161 DESIGN/BUILD PERMIT SOLUTION</p> <p>Bijan Abidian, MS, EI, CGC, HI CGC 061918 HI 5625 bijanabidian@yahoo.com</p> | |
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Bijan Abidian, MS, EI, CGC, HI
Deign, Drafting, Calculation, Inspection, & Construction Management
 Feature Projects: Architectural, Structural, Civil, Mechanical, & Electrical
 Phone: 561-706-5161, Email: bijanabidian@yahoo.com



Residential



Residential



Residential



Residential



Residential



Healthcare



Parking Garage



Shopping Center



Industrial



Industrial



Hotel



Townhouses



Condominium



Condominium



Educational



Retail Store



Healthcare



Townhouses



Hotel



Condominium



Restaurant



Industrial



Office



Sopping Center



Industrial



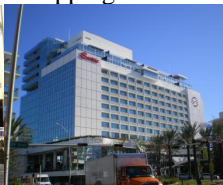
Hotel



Retail store



Restaurant



Hotel



Residential



Office



Recreational



Condominium



Condominium



Office



Entertainment



Educational



Townhouses



Recreational

**FORENSIC INVESTIGATION:
Feature Projects: Residential, Commercial, & Industrial**



Lightening & Fire



Hurricane & Storm



Structural Testing



Building Restoration



Design Failure



Impact



Pollution



Post Tension









Lateral & Soil



Moisture Weather

FEATURED PROJECTS:

Architectural, Structural, Civil, Mechanical, Electrical, Plumbing, Fire Sprinkler, and Industrials.

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|  | <p>Project Name: Beecroft Residence Project Location: Deerfield Beach, Florida Architect: Bali Design, Inc. Design, Calculations, Drawings-AE, SE, MEP by: Bijan Abidian General Contractor: Greco Builders, Inc. DATE: 2006 Value of Project \$10M</p> |
|  | <p>Project Name: Deerfield Park Professional Center Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2006 Value of Project \$40M</p> |
|  | <p>Project Name: Deerfield Park Professional Center Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2006 Value of Project \$40M</p> |
|  | <p>Project Name: Deerfield Park Professional Center, Building #6 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2006 Value of Project \$40M</p> |
|  | <p>Project Name: Bed Bath & Beyond Store Project Location: Miami, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE by: Bijan Abidian General Contractor: Kennedy Contractors, Inc. DATE: 2005 Value of Project \$10M</p> |
|  | <p>Project Name: Precast Property Wall Project: Wall Way USA Manufacturing Design, Calculations, Drawings-AE, SE by: Bijan Abidian</p> |

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|  | <p> Project Name: Corea Residence Project Location: Fort Lauderdale, Florida Architect: M Architects Design, Calculations, Drawings-AE, SE by: Bijan Abidian General Contractor: Construction, Inc. DATE: 2005 Value of Project \$6M </p> |
|  | <p> Project Name: Corea Residence Project Location: Fort Lauderdale, Florida Architect: M Architects Design, Calculations, Drawings-AE, SE by: Bijan Abidian General Contractor: Construction, Inc. DATE: 2005 Value of Project \$6M </p> |
|  | <p> Project Name: Johnson & Wales University -Cooling Towers Structure Project Location: North Miami, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE by: Bijan Abidian General Contractor: JWR Construction, Inc. DATE: 2003 Value of Project \$2M </p> |
|  | <p> Project Name: South Dade Out Parcel Project Location: Miami, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: JA Construction, Inc. DATE: 2006 Value of Project \$3M </p> |
|  | <p> Project Name: Townsend Square Shopping Center Project Location: Deerfield Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Head Construction, Inc. DATE: 2005 Value of Project \$5M </p> |
|  | <p> Project Name: Gulf Reflections Project Location: Fort Mayer, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE by: Bijan Abidian General Contractor: JWR Construction, Inc. DATE: 2003 Value of Project \$100M </p> |

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|  | <p>Project Name: Hypoluxo Professional Building Project Location: Boynton Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE by: Bijan Abidian General Contractor: Lebolo Construction, Inc. DATE: 2005 Value of Project \$3M</p> |
|  | <p>Project Name: Home Banc Project Location: Deerfield Beach, Florida Architect: Gallo Architects Construction Special Inspector AE, SE by: Bijan Abidian General Contractor: Head Construction, Inc. DATE: 2005 Value of Project \$20M</p> |
|  | <p>Project Name: Stone Medical Group Project Location: Delray Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE by: Bijan Abidian General Contractor: Lebolo Construction, Inc. DATE: 2005 Value of Project \$2M</p> |
|  | <p>Project Name: Custom Estate House Project Location: Pompano Beach, Florida Architect: American Building Engineers, Inc. Design, Calculations, Drawings-AE, SE, CE, MEP: Bijan Abidian General Contractor: American Building Engineers, Inc. DATE: 1998 Value of Project \$4M</p> |
|  | <p>Project Name: Ligi Tools Project Location: Deerfield Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2002 Value of Project \$30M</p> |
|  | <p>Project Name: Levy Residence Project Location: Boca Raton, Florida Construction Special Inspector AE, SE by: Bijan Abidian General Contractor: Greco Builders, Inc. DATE: 2009 Value of Project \$8M</p> |
|  | <p>Project Name: Arbor Green Project Location: Deerfield Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: JWR, Inc. DATE: 2002-2003 Value of Project \$16M</p> |

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|  | <p> Project Name: Lighter Residence Project Location: Lighthouse Point, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, by: Bijan Abidian General Contractor: MKS Builders, Inc. DATE: 2004 Value of Project \$2M </p> |
|  | <p> Project Name: Fetta Auto Center Project Location: Pompano Beach Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Construction, Inc. DATE: 2003 Value of Project \$6M </p> |
|  | <p> Project Name: Lindgren Residence Project Location: Pompano Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE by: Bijan Abidian General Contractor: Lebolo Construction, Inc. DATE: 2005 Value of Project \$4M </p> |
|  | <p> Project Name: Colonial palm Town Houses Project Location: Deerfield Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE by: Bijan Abidian General Contractor: Logic Builders, Inc. DATE: 2007 Value of Project \$10M </p> |
|  | <p> Project Name: Lona Rosa Cafe Project Location: Deerfield Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, by: Bijan Abidian General Contractor: Builders, Inc. DATE: 2002 Value of Project \$1M </p> |
|  | <p> Project Name: Young Israel Project Location: Deerfield, Florida Special Inspection by: Bijan Abidian General Contractor: Berger Construction DATE: 2004 Value of Project \$20M </p> |

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|  | <p> Project Name: Aquatic Center Project Location: North Miami Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, by: Bijan Abidian General Contractor: Arellano Construction, Inc. DATE: 2007 Value of Project \$6M </p> |
|  | <p> Project Name: Amphitheater Project Location: North Miami Beach, Florida Architect: N/A Design, Calculations, Drawings-AE, SE, by: Bijan Abidian General Contractor: Construction, Inc. DATE: 2007 Value of Project \$3M </p> |
|  | <p> Project Name: Lona Rosa Cafe Project Location: Deerfield Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, by: Bijan Abidian General Contractor: Builders, Inc. DATE: 2002 Value of Project \$1M </p> |
|  | <p> Project Name: Lowes Lake Bridge Project Location: Charlotte, North Carolina Pre-Structure Design by: Bijan Abidian General Contractor: Design Land DATE: 2009 Value of Project \$2M </p> |
|  | <p> Project Name: Alexander Condominium Project Location: Miami Beach, Florida General Contractor: Coast to Coast Construction, Inc. Structural Engineer Special Inspector: Bijan Abidian DATE: 2007 to 2009 </p> |
|  | <p> Project Name: Antilla Plaza Project Location: Deerfield Beach, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, by: Bijan Abidian General Contractor: Henson Construction, Inc. DATE: 2004 Value of Project \$5M </p> |



Project Name: Celentano House
Project Location: Hillsboro Beach, Florida
Design, Calculations, Drawings-AE, SE by: Bijan Abidian
General Contractor: Celentano Construction
DATE: 2007-2008
Value of Project \$14M



Project Name: Corea Residence Model from Castle in U.K. 17 Century



Project Name: Corea Residence
Project Location: Fort Lauderdale, Florida
Architect: M Architects
Design, Calculations, Drawings-AE, SE by: Bijan Abidian
General Contractor: Construction, Inc.
DATE: 2007
Value of Project \$6M



Project Name: Corea Residence
Project Location: Fort Lauderdale, Florida
Architect: M Architects
Design, Calculations, Drawings-AE, SE by: Bijan Abidian
General Contractor: Construction, Inc.
DATE: 2007
Value of Project \$6M



Project Name: Howard Johnson Restaurant
Project Location: Deerfield Beach, Florida
Architect: Gallo Architects
Design, Calculations, Drawings-AE, SE by: Bijan Abidian
General Contractor: Shakman Construction, Inc.
DATE: 2008
Value of Project \$2M



Project Name: Holy Cross Hospital-Parking Garage
Project Location: Fort Lauderdale, Florida
Structural Preservation: Bijan Abidian
DATE: 2008
Value of Project \$40M



Project Name: Coronado Towers
Project Location: Highland Beach, Florida
Post-Tension Structural Engineer Inspector: Bijan Abidian
General Contractor: Paint Master Construction, Inc.
DATE: 2006-2007





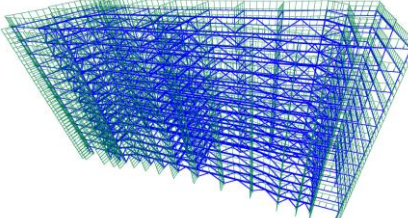

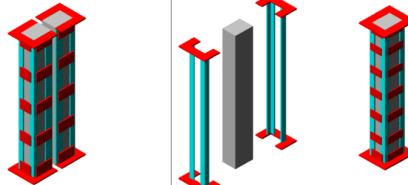

Project Name: Sunrise East Condominium
Project Location: Fort Lauderdale, Florida
Structural Engineer Inspector: Bijan Abidian
DATE: 2008








Project Name: Luxury Towers
Project Location: Boca Raton, Florida
SE, CE, ME Reviewer: Bijan Abidian
DATE: 2007-2008

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|  | <p> Project Name: Siville Hotel Project Location: Miami Beach, Florida Architect: Revuelta-Vega-Leon, P.A. Design, Calculations, Drawings Shoring by: Bijan Abidian General Contractor: KMC Construction, Inc. DATE: 2008 Value of Project \$60M </p> |
|  | <p> Project Name: Deerfield Park Professional Center, Building #6 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2005-2006 Building 6 </p> |
|  | <p> Project Name: Deerfield Park Professional Center, Building #5 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2005-2006 Building 5 </p> |
|  | <p> Project Name: Deerfield Park Professional Center, Building #7 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2005-2006 Building 7 </p> |
|  | <p> Project Name: Deerfield Park Professional Center, Building #8 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2005-2006 Building 8 </p> |

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|  | <p> Project Name: Deerfield Park Professional Center, Building #4 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2005-2006 Building 4 </p> |
|  | <p> Project Name: Deerfield Park Professional Center, Building #3 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2005-2006 Building 3 </p> |
|  | <p> Project Name: Deerfield Park Professional Center, Building #2 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2005-2006 Building 2 </p> |
|  | <p> Project Name: Deerfield Park Professional Center, Building #1 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2005-2006 Building 1 </p> |
|  | <p> Project Name: Deerfield Park Professional Center, Building #9 Project Location: Deerfield Beach, Florida Architect: Kenneth Carlson Architect, PA Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: Bomar Builders, Inc. DATE: 2005-2006 Building 9 </p> |

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|  | <p> Project Name: Sands Pointe Ocean Club Project Location: North Miami Beach, Florida Architect: Smith & Smith Design Design, Calculations, Drawings-MEP Pool SPA by: Bijan Abidian General Contractor: IDG Builders, LLC DATE: 2010 </p> |
|  | <p> Project Name: Waste Management Project Location: South Florida Design, Calculations, Drawings-SE, CE, MEP by: Bijan Abidian DATE: 2002 to Present </p> |
|  | <p> Project Name: Seville Hotel-Existing Building Analysis Project Location: Miami Beach, Florida Architect: Revuelta-Vega-Leon, P.A. Design, Calculations, Drawings-SE by: Bijan Abidian General Contractor: MOSS Construction, Inc. DATE: 2008 </p> |
|  | <p> Project Name: Holy Cross Hospital-Parking Garage Project Location: Fort Lauderdale, Florida Structural Preservation, Innovation: Bijan Abidian DATE: 2008 </p> |
|  | <p> Project Name: Melrose Building (Johnson & Wales University) Project Location: Miami, Florida Structural Preservation, Innovation: Bijan Abidian DATE: 2004 </p> |
|  | <p> Project Name: Vistalmar Townhouses Project Location: Lake Worth, Florida Architect: Bali Design Design, Calculations, Drawings-AE, SE, MEP by: Bijan Abidian General Contractor: DATE: 2007 Value of Project: \$4M </p> |

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|  | <p> Project Name: Beecroft Residence Project Location: Deerfield Beach, Florida Architect: Bali Design, Inc. Design, Calculations, Drawings-AE, SE, MEP by: Bijan Abidian General Contractor: Greco Builders, Inc. DATE: 2009 Value of Project \$10M </p> |
|  | <p> Project Name: Hemingway Condominiums Project Location: Deerfield Beach, Florida Architect: Studio K Architects Special Inspection by: Bijan Abidian General Contractor: Boca Construction & Development DATE: 2009 Value of Project \$16M </p> |
|  | <p> Project Name: CAE Headquarter Building for LEED-EB Project Location: Deerfield Beach, Florida Consulting Engineering by: Bijan Abidian DATE: 2009 Value of Project \$1.6M </p> |
|  | <p> Project Name: Home Banc Project Location: Deerfield Beach, Florida Architect: Gallo Architects Construction Special Inspector AE, SE by: Bijan Abidian General Contractor: Head Construction, Inc. DATE: 2005 Value of Project \$20M </p> |
|  | <p> Project Name: Johnson & Wales University-Melrose Building Project Location: North Miami, Florida Architect: Gallo Architects Design, Calculations, Drawings-AE, SE, CE by: Bijan Abidian General Contractor: JWR Construction, Inc. DATE: 2004 Value of Project \$18M </p> |
|  | <p> Project Name: Tiara East Condo Project Location: Deerfield Beach, Florida Design, Calculations, Drawings, Inspection-SE, CE by: Bijan Abidian DATE: 2007 & 2009 Value of Project \$20M </p> |

| | |
|---|---|
|  | <p> Project Name: Penthouse Beach Club Project Location: Tampa, Florida Design & Special Inspector AE, SE by: Bijan Abidian General Contractor: All Phase Construction, Inc. DATE: 2009 Value of Project \$12M </p> |
|  | <p> Project Name: HSIAO Residence Project Location: Plantation, Florida Design & Special Inspector AE, SE, CE, MEP by: Bijan Abidian General Contractor: IDG BUILDERS, LLC. DATE: 2010-2011 Value of Project \$5M </p> |
|  | <p> Project Name: HSIAO Workshop Project Location: Plantation, Florida Design & Special Inspector AE, SE, CE, MEP by: Bijan Abidian General Contractor: IDG BUILDERS, LLC DATE: 2010-2011 Value of Project \$2M </p> |
|  | <p> Project Name: Ramsook Residence Project Location: Plantation, Florida Design & Special Inspector AE, SE, CE, MEP by: Bijan Abidian General Contractor: IDG BUILDERS, LLC. DATE: 2011 Value of Project \$4M </p> |
|  | <p> Project Name: William R. Nash, Inc. Project Location: Medley, Florida Construction Special Inspector SE, CE: Bijan Abidian General Contractor: RMB-General Contractor DATE: 2011 Value of Project \$10M </p> |

| | |
|---|--|
|  | <p> Project Name: Zolfaghari Residence Project Location: West Palm Beach, Florida Design: AE, SE, CE, MEP by: Bijan Abidian General Contractor: Owner Builder DATE: 2010-2011 Value of Project \$6M </p> |
|  | <p> Project Name: Hollywood Beach Golf Club Project Location: Hollywood, Florida Design & Inspection: Sheet pile by Bijan Abidian General Contractor: Atlantic Icon DATE: 2011 Value of Project \$2M </p> |
|  | <p> Project Name: Legal-Eze Project Location: Fort Lauderdale, Florida Architect: ARCURB Design, Drawings, & Calculation SE, MEP by: Bijan Abidian DATE: 2011 Value of Project \$8M </p> |
|  | <p> Project Name: Crescent Garden Interior Buildout Project Location: Miami, Florida Design, Drawings, & Calculation AE, SE, MEP by: Bijan Abidian DATE: 2011 Value of Project \$1M </p> |
|  | <p> Project Name: Wellington Pharmacy Project Location: Palm Beach, Florida Architect & General Contractor: Cannatelli Builders Design, Drawings, & Calculation SE, MEP by: Bijan Abidian DATE: 2011 Value of Project \$2M </p> |



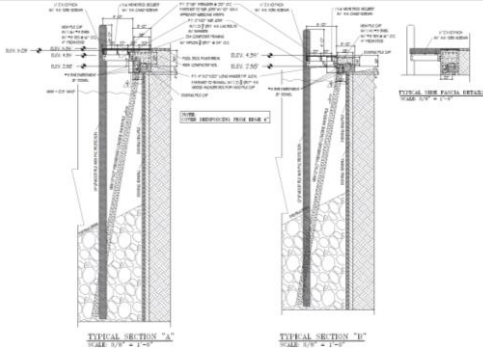
Project Name: Wind Turbine Power
Project Location: Fort Lauderdale, Florida
General Contractor: Greco Builders
Design, Drawings, & Calculation SE, MEP by: Bijan Abidian
DATE: 2010
Value of Project \$1M



Project Name: TRUMP TOWERS and PINNACLE TOWER
Project Location: Sunny Isles, Florida
Building and Units Renovations
Design, Drawings, & Calculation AE, SE, MEP by: Bijan Abidian

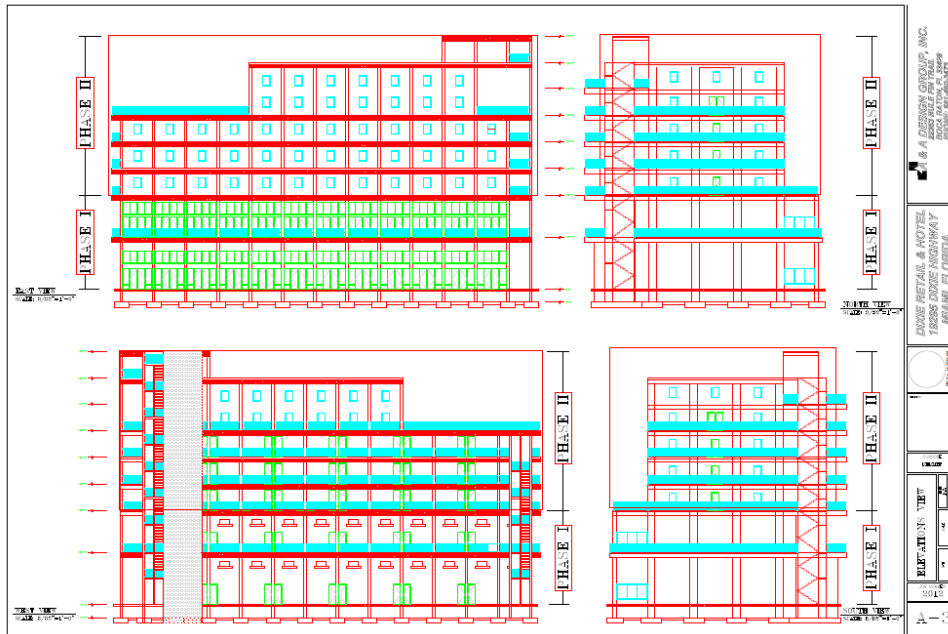


Project: Sea Wall and Boat Dock
Project Location: Golden Surf Towers, Hallandale Beach
Design, Drawings, & Calculation by: Bijan Abidian

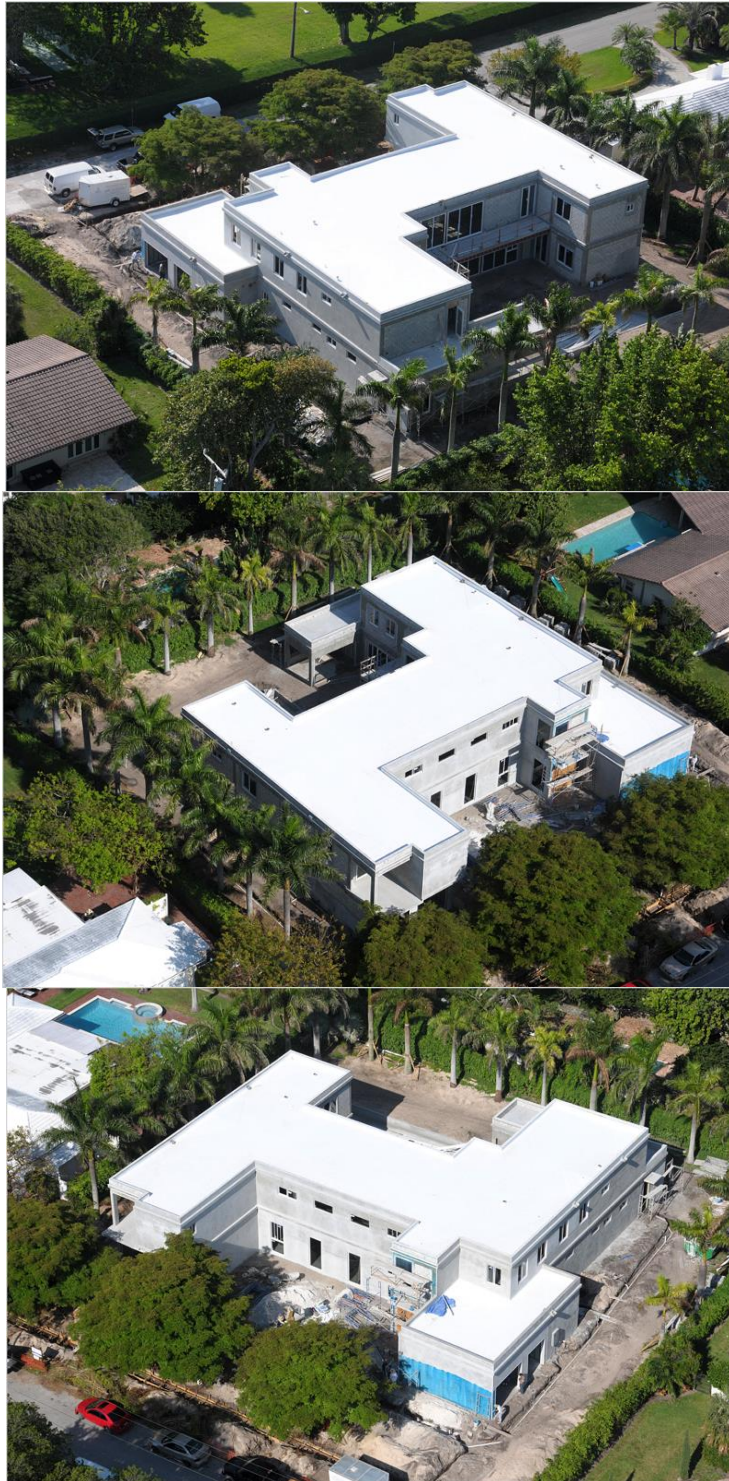




Project Name: NEXUS SHOOTING RANGES
Project Location: Davie, Florida
General Contractor: IDG Builders
Design, Drawings, & Calculation CE, SE by: Bijan Abidian
DATE: 2012-2013
Value of Project: \$20M



Project Name: DIXIE HOTEL & SHOPPING CENTER
Project Location: Miami, Florida
General Contractor: Bijan Abidian
Design, Drawings, & Calculation CE, SE, MEP by: Bijan Abidian
DATE: 2013-2014
Value of Project: \$40M



Project Name: Sam Avny Residence
Project Location: Boca Raton, Florida
Design, Drawings, Calculation CE, AE, SE, MEP, inspection, and Construction Administration by: Bijan Abidian
DATE: 2013-2014
Value of Project \$12M



Project Name: Sam Avny Residence
Project Location: Boca Raton, Florida
Design, Drawings, Calculation CE, AE, SE, MEP, inspection, and Construction Administration by: Bijan Abidian
DATE: 2013-2014
Value of Project \$12M



Project Name: Custom House
Project Location: Miami, Florida
Design by: Bijan Abidian
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2014-2015
Value of Project \$3M



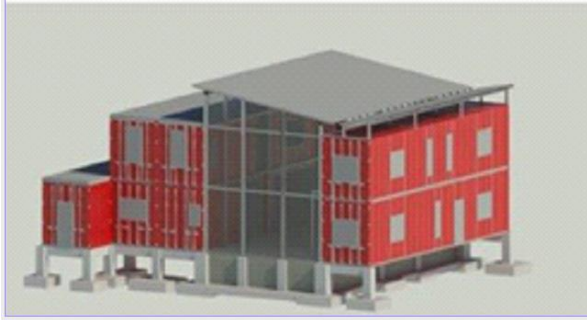
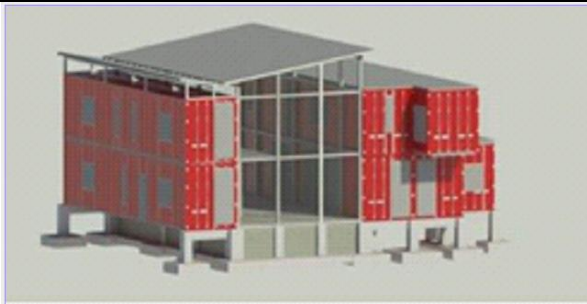
Project Name: SALON & SPA
Project Location: Coral Springs, Florida
Design by: Bijan Abidian
Design, Drawings, & Calculation CE, SE, & MEP: Bijan Abidian
DATE: 2013-2014
Value of Project \$2M



Project Name: Griffin Retail Stores
Project Location: Davie, Florida
Design by: Bijan Abidian
Design, Drawings, Calculation CE, SE, & MEP: Bijan Abidian
DATE: 2014-2015
Value of Project \$5M



Project Name: Innovation build house with waste container and green house
Project Location: Miami, Florida
Design, Drawings, Calculation CE, SE, MEP, inspection, and Construction Administration by: Bijan Abidian
DATE: 2014-15



Project Name: Two Stories Container House
Project Location: Miami, Florida
Design, Drawings, Calculation CE, AE, and MEP by: Bijan Abidian
DATE: 2021



Project Name: Gulfstream Park-Walking Ring Platforms
Project Location: Hallandale Beach, Florida
Design by: Bijan Abidian
Design, Drawings, Calculation SE, & MEP: Bijan Abidian
DATE: 2013-2014



Project Name: Custom House
Project Location: Boca Raton, Florida
Design by: Bijan Abidian
Design, Drawings, Calculation AE, SE, : Bijan Abidian
DATE: 2014



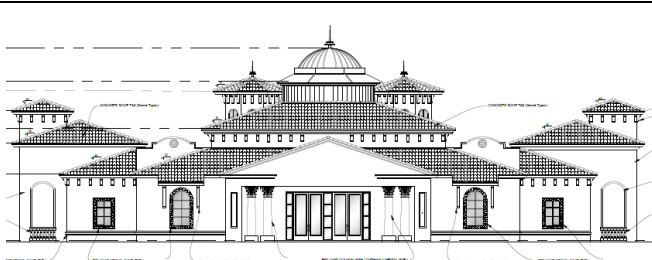
Project Name: Griffin Center
Project Location: Davie, Florida
Design by: Bijan Abidian
Design, Drawings, Calculation SE, & MEP: Bijan Abidian
DATE: 2014-2015



Project Name: Popeyes
Project Location: Oakland Park, Florida
Design, Drawings, Calculation Structural Engineering
By: Bijan Abidian
DATE: 2015



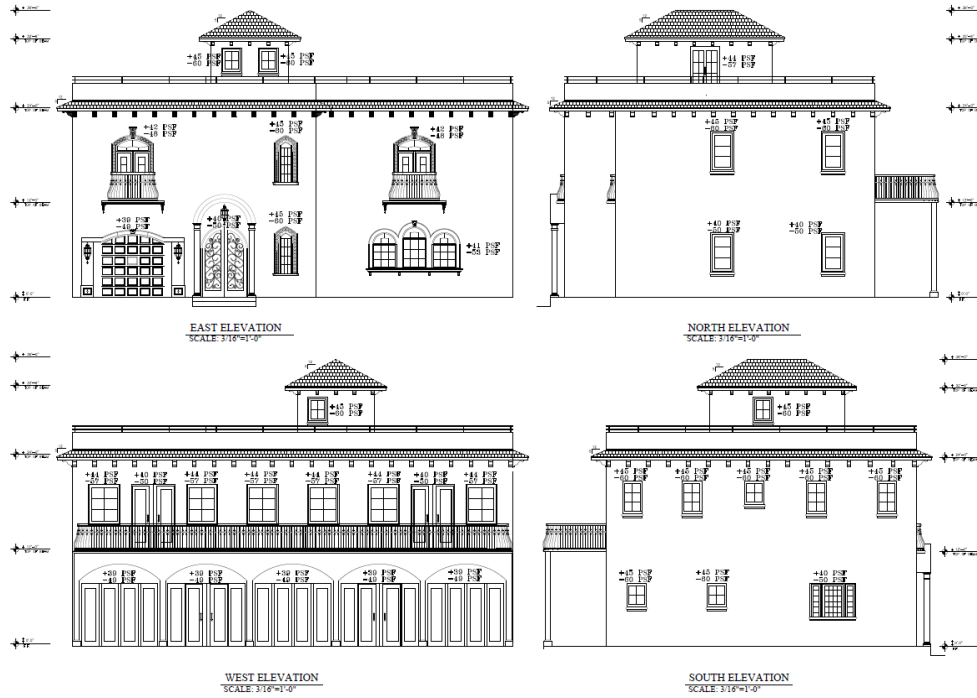
Project Name: Satori Tower
Project Location: Miami Downtown
Review plans and consulting preconstruction meeting
By: Bijan Abidian
DATE: 2015



Project Name: Medical Center
Project Location: Orange City-Orlando
Design, Drawings, Calculation AE, SE, & MEPF
By: Bijan Abidian
DATE: 2015-2016



Project Name: New Modern House
Project Location: Victoria Parks, Florida
Design by: Bijan Abidian
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2016-2017
Value of Project \$2M



Project Name: New Modern House
Project Location: Hollywood Beach, Florida
Design by: Bijan Abidian
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2016-2017
Value of Project \$5M



Project Name: Marina Fuel Tank
Project Location: Dania Beach, Florida
Design by: Bijan Abidian
DATE: 2017



Project Name: TIKI BAR
Project Location: Hollywood Beach, Florida
Design by: Bijan Abidian
DATE: 2016



Project Name: Dialysis Center Facilities
Project Location: Daytona Beach, Orlando, Boca Raton
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2015-2017



Project Name: YUM-YUM YOGURT STORE
Project Location: Miami
Design, Drawings, & Calculation MEP by: Bijan Abidian
DATE: 2013



Project Name: 341 SE 12th Street
Project Location: Pompano Beach
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2011



Project Name: Walgreen Stores
Project Location: Nation Wide
Design, Drawings, & Calculation SE, & MEP by: Bijan Abidian
DATE: 2015



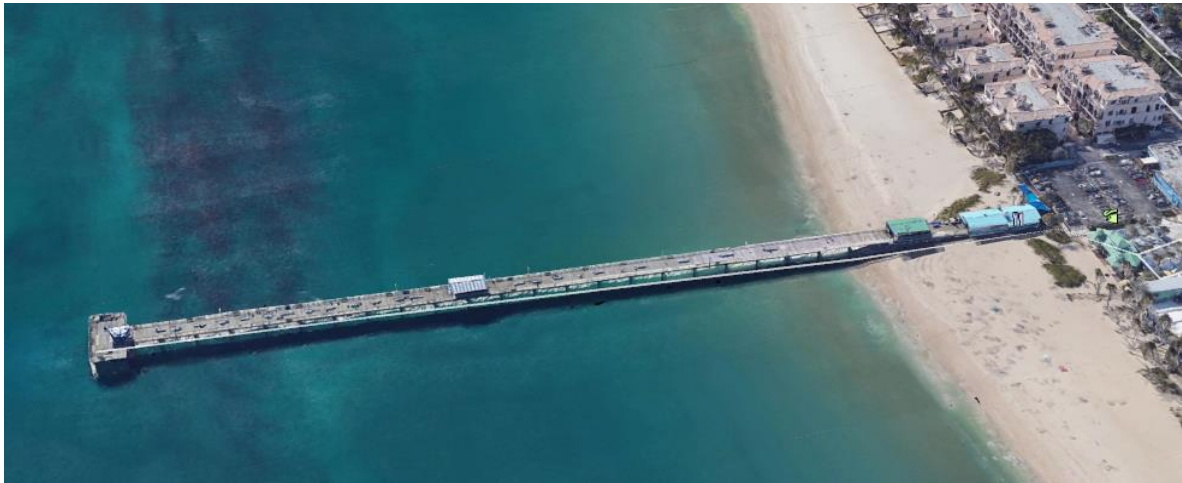
Project Name: Gulfstream Performance Art Center
Project Location: Hallandale Beach, Florida
Design by: Bijan Abidian
Design, Drawings, Calculation SE: Bijan Abidian
DATE: 2013-2014



Project Name: Office Building
Project Location: Fort Lauderdale
Design, Drawings, & Calculations: CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2017



**Project Name: 2680 Arbor Drive
Fort Lauderdale, FL 33312
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2017**



**Project Name: Lauderdale-By-Sea Pier
Renovation & Repair Pier and Restaurant
2 East Commercial Blvd.
Lauderdale-By-Sea, FL 33308
General Contractor: Angelica Construction, Inc.
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2016**



Project Name: **Sunny Isles Beach Residence**
 18950 North Bay Road
 Sunny Isles Beach, FL 33160
 Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
 DATE: 2016-2019



Project Name: **Broward Math & Science School**
 Renovation & Remodeling-Interior Alteration
 6101 N.W. 31st Street
 Margate, FL 33063
 General Contractor: Blue Ocean Construction, Inc.
 Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
 DATE: 2016-2017



Project Name: **PORTOFINO + SOUTH POINT TOWER**
300 South Point Drive
Miami Beach, FL 33139
Design, Drawings, & Calculation CE & MEP by: Bijan Abidian
DATE: 2017-2018



Project Name: **ACTAVIS PHARMACY FACILITIES**
4955 Griffin Road
Fort Lauderdale, Florida
Design, Drawings, & Calculation Structural & Mechanical by: Bijan Abidian
DATE: 2014



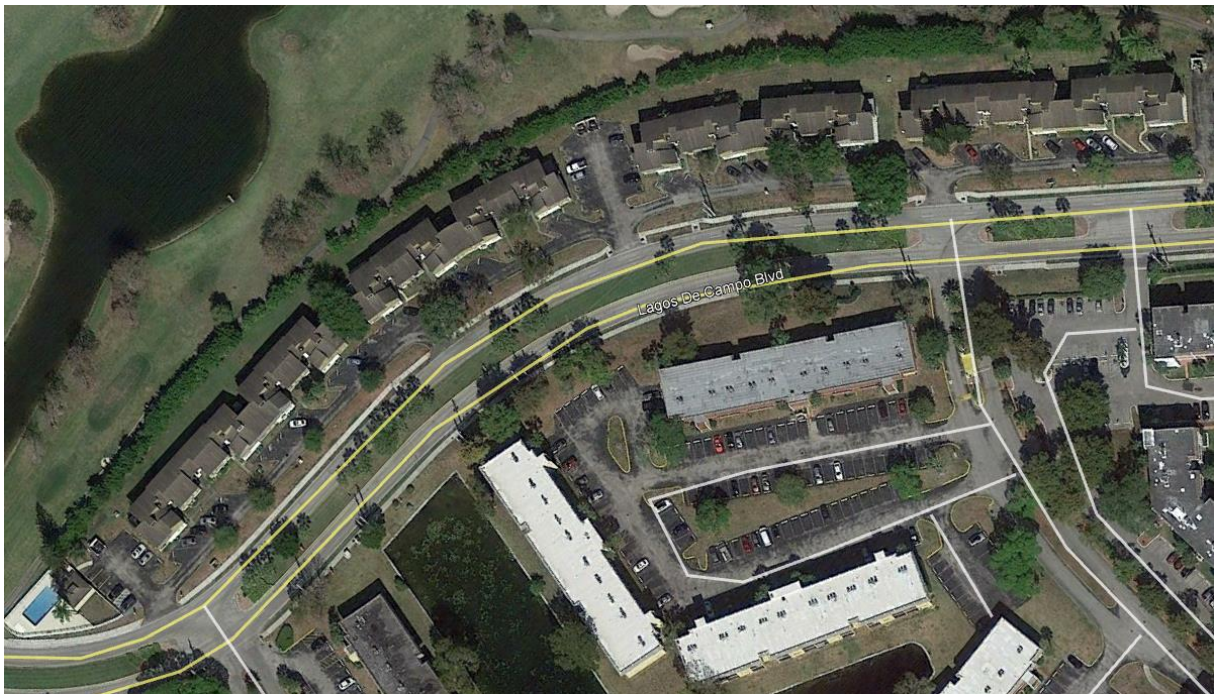
Project Name: **Dania Beach Boat Club**
Dania Beach, Florida
Design, Drawings, & Calculation Fuel Systems, Restaurant, Office by: **Bijan Abidian**
DATE: 2016-2017



Project Name: **Margarita Ville Hollywood Beach**
Hollywood Beach, Florida
Design, Drawings, & Calculations all outdoor Tiki structures by: **Bijan Abidian**
DATE: 2015-2016



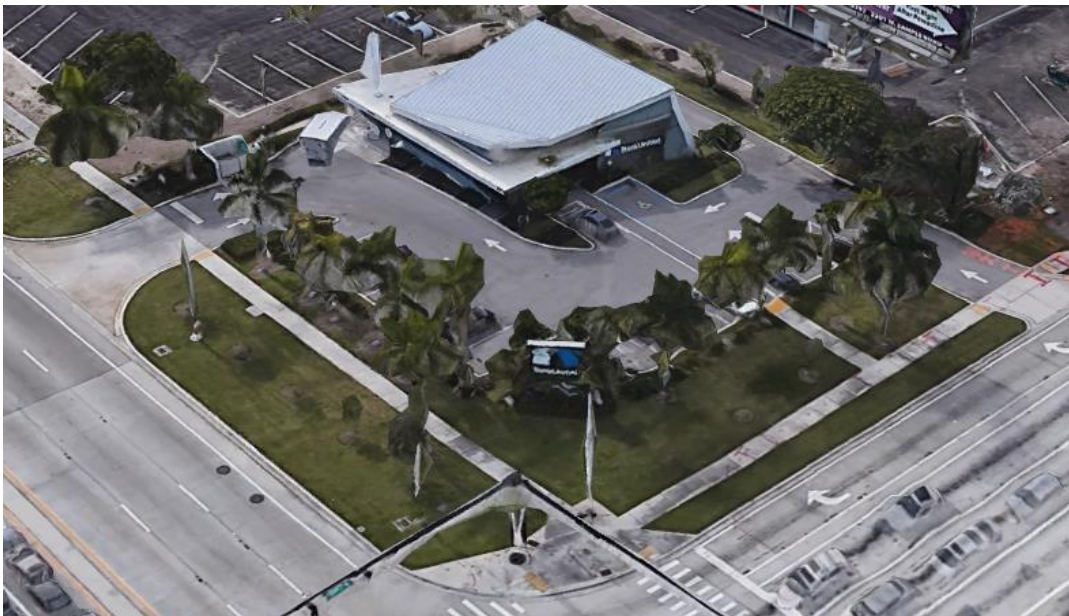
Project Name: The Carriage House Condominium
Miami Beach, Florida
Design, Drawings, & Calculations Party Building by: Bijan Abidian
DATE: 2017





**Sandpebbles Townhouse Condominium
8001-8153 Lagos De Camp Blvd.
Tamarac, FL 33321**

**40 years re-certification inspection restoration and renovation design, drawings, & inspection by: Bijan Abidian
DATE: 2017-2018**



**Project Name: Bank United
Pompano Beach, Florida
Design, Drawings, & Calculations Lighting Photometric by: Bijan Abidian
DATE: 2014**



Project Name: Shooters Restaurant
Fort Lauderdale, Florida
Design, Drawings, & Calculations Structural Remodeling by: Bijan Abidian
DATE: 2014



Project Name: Deer Creek Country Club Ballroom
Deerfield Beach, Florida
Design, Drawings, & Calculations Structural Remodeling by: Bijan Abidian
DATE: 2014



Project Name: **Circle House Coffee Shop**
Fort Lauderdale, Florida
Design, Drawings, & Calculations AE/SE/MEP/CE by: **Bijan Abidian**
DATE: 2018



Project Name: **CHABAD JEWISH CENTER**



SEVERAL DESIGN/BUILD CONTAINER BUILDING AT MIAMI



Project Name: Green House Bazaar
Greenacres, Florida
Design, Drawings, & Calculations MEP/CE by: Bijan Abidian
DATE: 2011



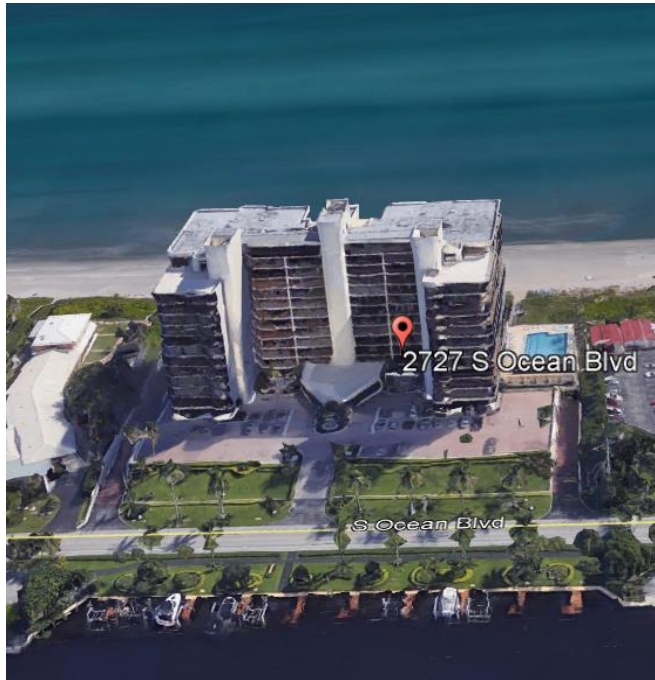
Project Name: Fort Lauderdale Marina
Fort Lauderdale, Florida
Design, Drawings, & Calculations MEP/CE/SE by: Bijan Abidian
DATE: 2018



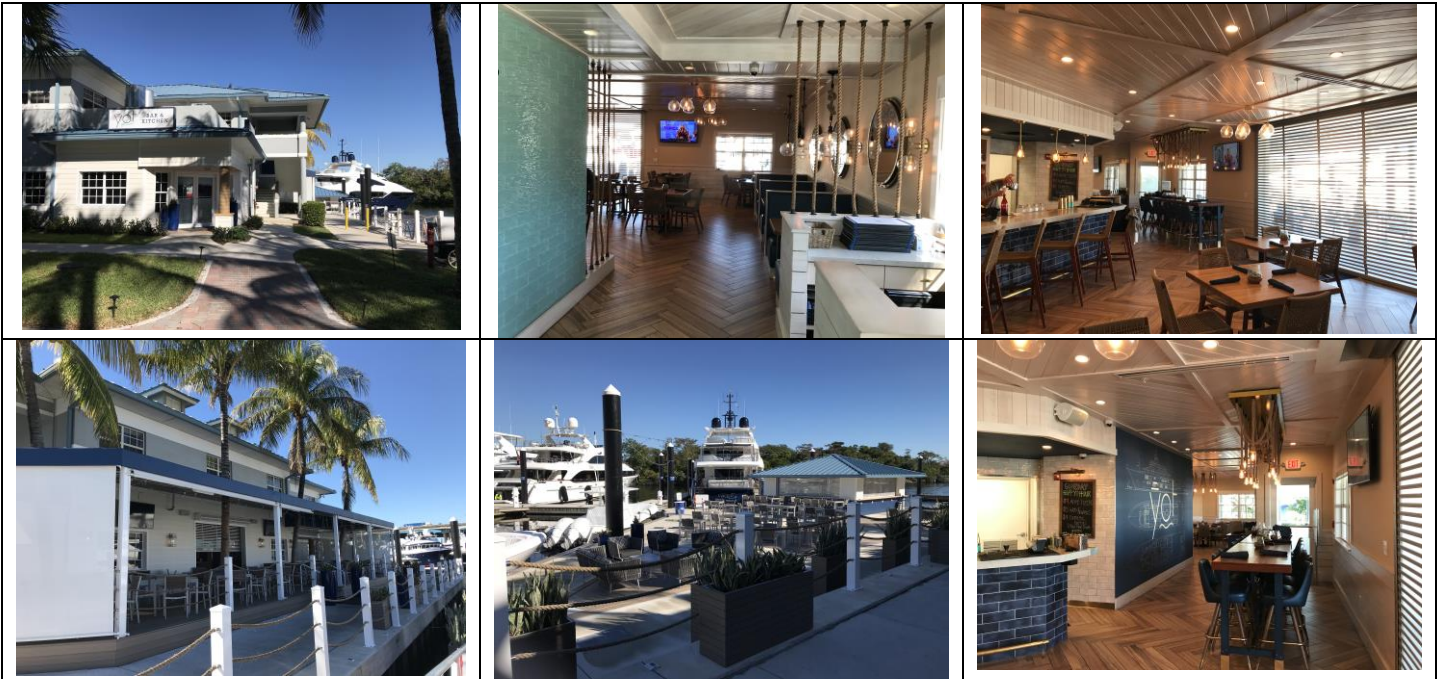
Project Name: **Satellite Dish**
Fort Lauderdale, Florida
Design, Drawings, & Calculations SE/MEP by: **Bijan Abidian**
DATE: 2018



Project Name: **Tamiami Trail Bridge**
Miami, Florida
Design, Drawings, & Calculations Sewer Systyem by: **Bijan Abidian**
DATE: 2018



Project Name: **Villa Magana**
Highland Beach, Florida
Design, Drawings, & Calculations SE/MEP by: Bijan Abidian
DATE: 2018



Project Name: **YOT BAR RESTAURANT MARINA**
Fort Lauderdale, Florida
Design, Drawings, & Calculations SE/MEP by: Bijan Abidian
DATE: 2019-2020



Project Name: **DENNY'S RESTAURANT**
West Palm Beach, Florida
Design, Drawings, & Calculations SE/MEP by: Bijan Abidian
DATE: 2020



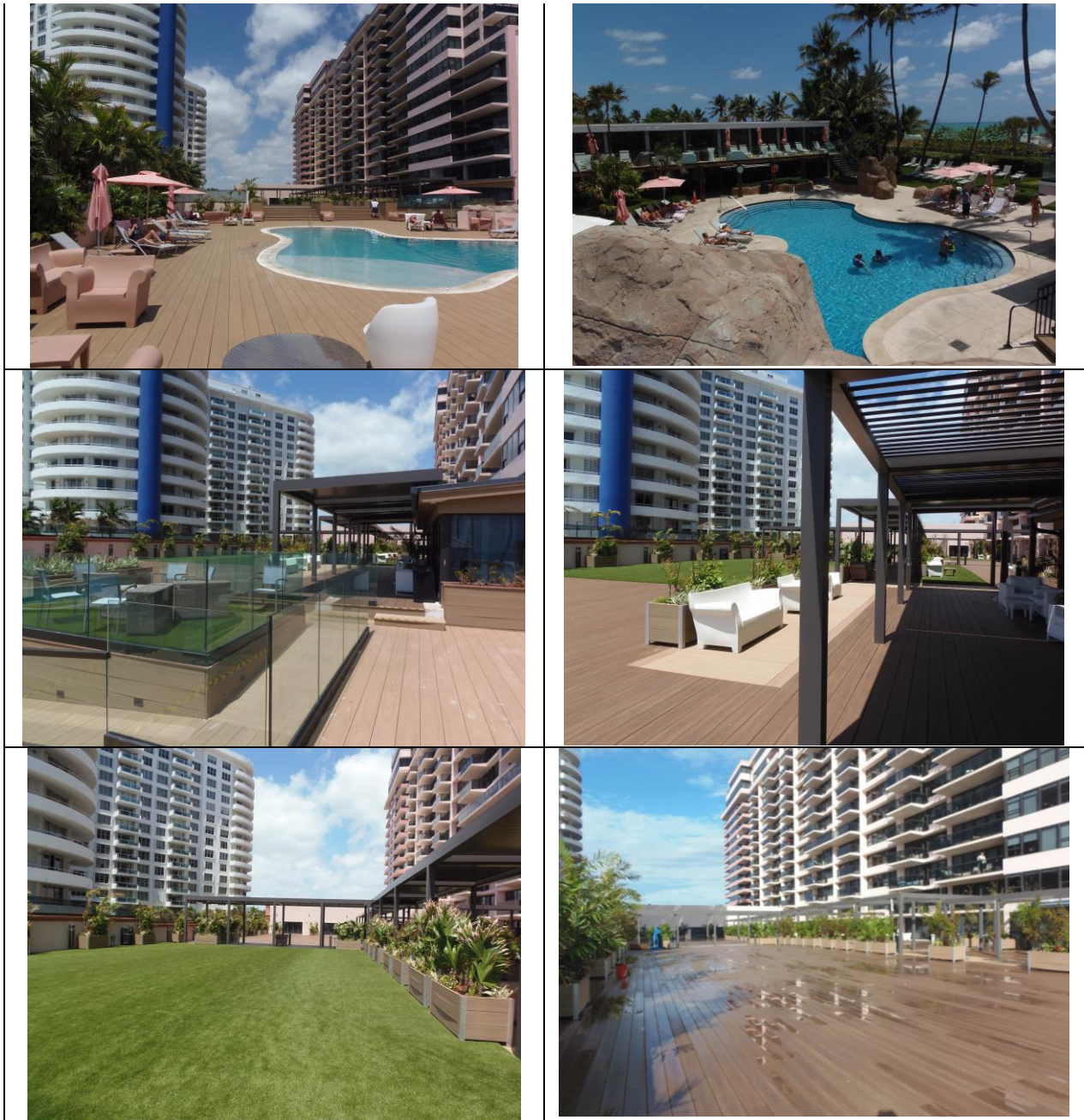
Project Name: **DENNY'S RESTAURANT**
Sanford, Florida
Design, Drawings, & Calculations SE/MEP by: Bijan Abidian
DATE: 2020



Project Name: **Remodeling and Renovation MECE Preschool and Kindergarten First United Methodist Church**
Boca Raton, Florida
Design, Drawings, & Calculations SE/MEP by: Bijan Abidian
DATE: 2020



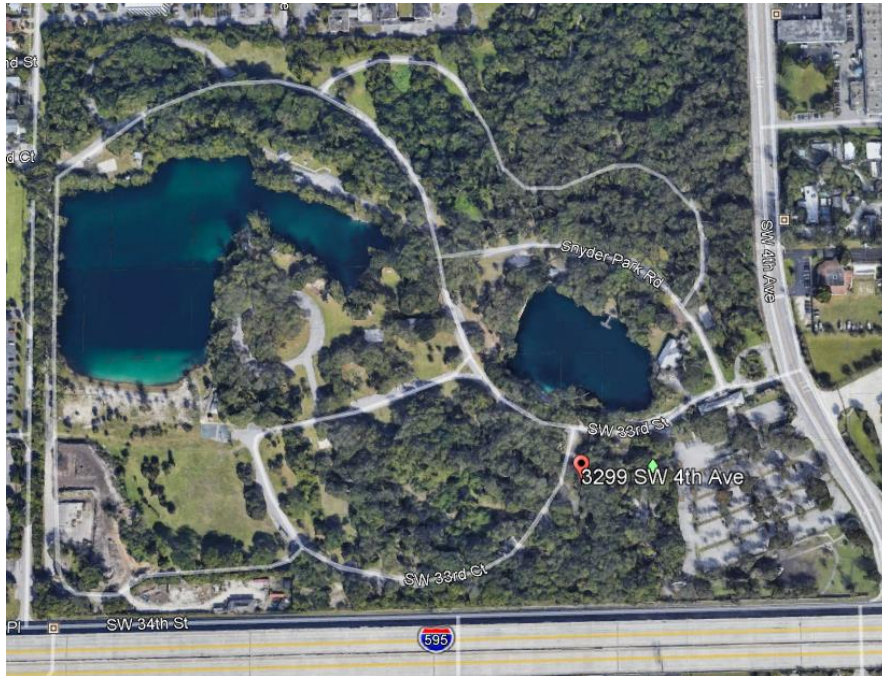
**Project Name: Alexander Resort and Hotel
Outdoor Pools and Decks
Miami Beach
Design, Drawings, & Calculation
Architectural, Structural, Mechanical, Electrical, and Plumbing
By: Bijan Abidian
DATE: 2021 and 2022**



**Project Name: Alexander Resort and Hotel
Outdoor Pools and Decks
Miami Beach
Design, Drawings, & Calculation
Architectural, Structural, Mechanical, Electrical, and Plumbing
By: Bijan Abidian
DATE: 2021 and 2022**



Project Name: FAMASI USA
Medical Distribution Center
10780 N.W. 27th Street, Doral, FL 33172
Design, Drawings, & Calculation Civil, Architectural, Structural, Mechanical, Electrical, Plumbing, & Fire Sprinkler
By: Bijan Abidian
DATE: 2021



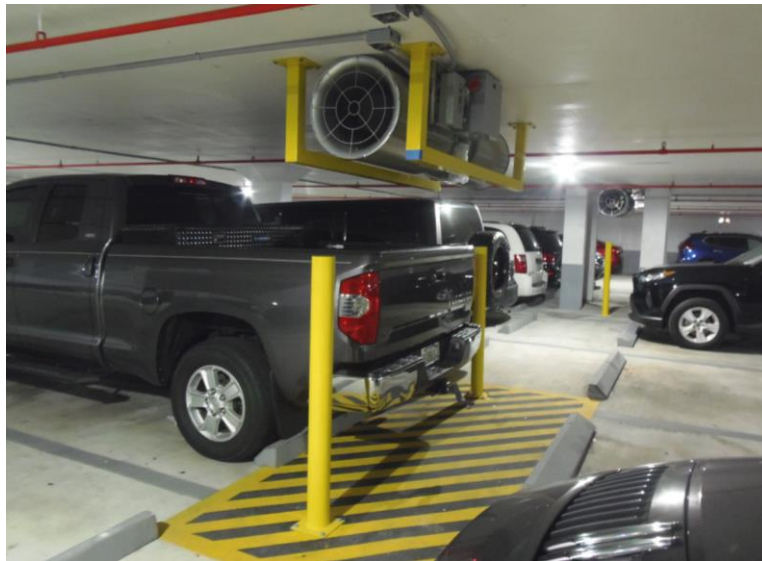
Project Name: SNYDER PARK
Fort Lauderdale, Florida
Design, Drawings, & Calculation Bike Wood Deck Track by: Bijan Abidian
DATE: 2017



NAVAL & SHIP MANUFACTURES
 Persian Gulf-1974 to 1977 & 1986 to
 1988



ORE / MINE INDUSTRIAL
 GOLGOHAR-1989 to 1992



Project Name: **PORTOFINO + SOUTH POINT TOWER**
 300 South Point Drive
 Miami Beach, FL 33139
 Design, Drawings, & Calculations parking garage ventilations systems by: **Bijan Abidian**
 DATE: 2021



Project Name: **NSID RECORD BUILDING**
9700 NW 52th Street
Coral Springs, FL 33071
Design, Drawings, & Calculations Civil-Architectural-Structural-Mechanical-Electrical-Plumbing by: Bijan Abidian
DATE: 2021



Project Name: **WATER TREATMENT PLANT IMPROVEMENTS**
9700 NW 52th Street
Coral Springs, FL 33071
Design, Drawings, & Calculations Architectural-Structural-Environmental-Mechanical-Electrical-Plumbing by: Bijan Abidian
DATE: 2021



Project Name: New Modern House
Project Location: Plantation, Florida
Design by: Bijan Abidian
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2021
Value of Project \$2.5M



Project Name: New Modern Houses
Project Location: Victoria, Florida
Design by: Bijan Abidian
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2021
Value of Project \$5.5M



Project Name: New Modern House
Project Location: Fort Lauderdale, Florida
Design by: Bijan Abidian
Design, Drawings, & Calculation CE, AE, SE, & MEP by: Bijan Abidian
DATE: 2022
Value of Project \$3.5M

**ENGINEERING CALCULATIONS
ARCHITECTURAL ENGINEERING CONSTRUCTION PROJECTS**



STRUCTURAL



CONSTRUCTION



GEOTECHNICAL



TRANSPORTATION



MECHANICAL



ELECTRICAL



ENVIROMENTAL



FIRE PROTECTION



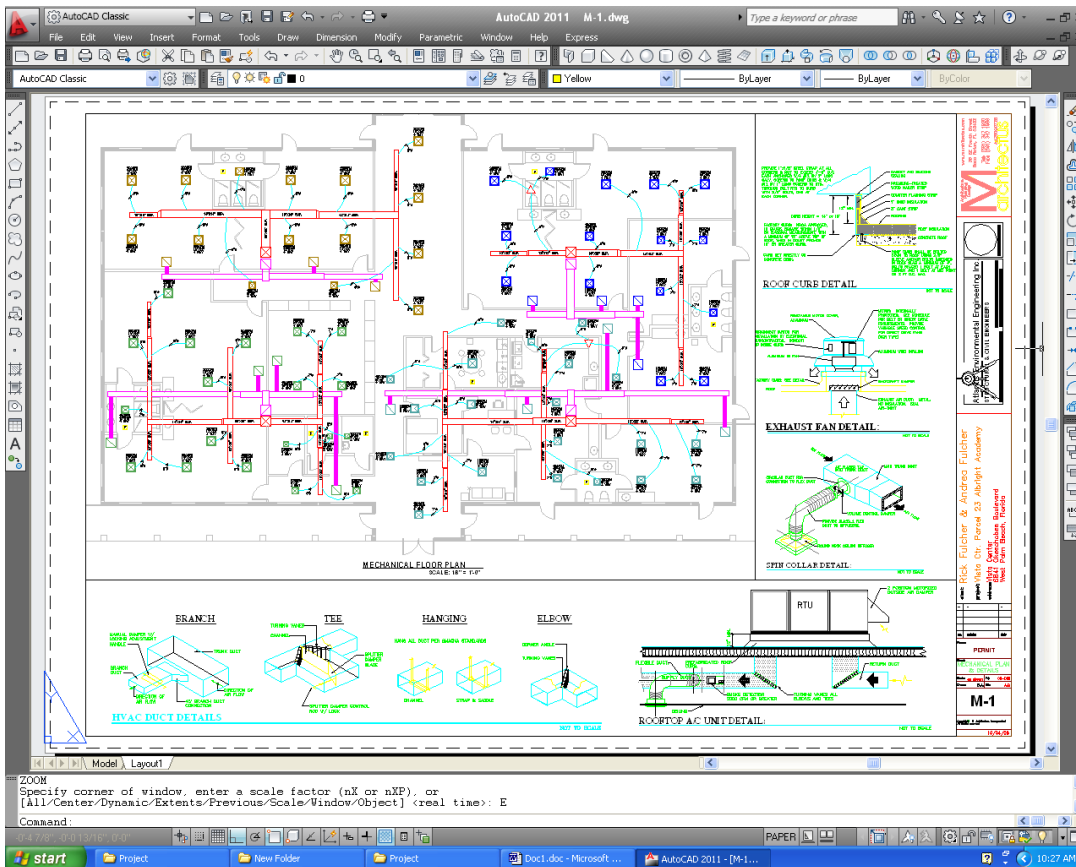
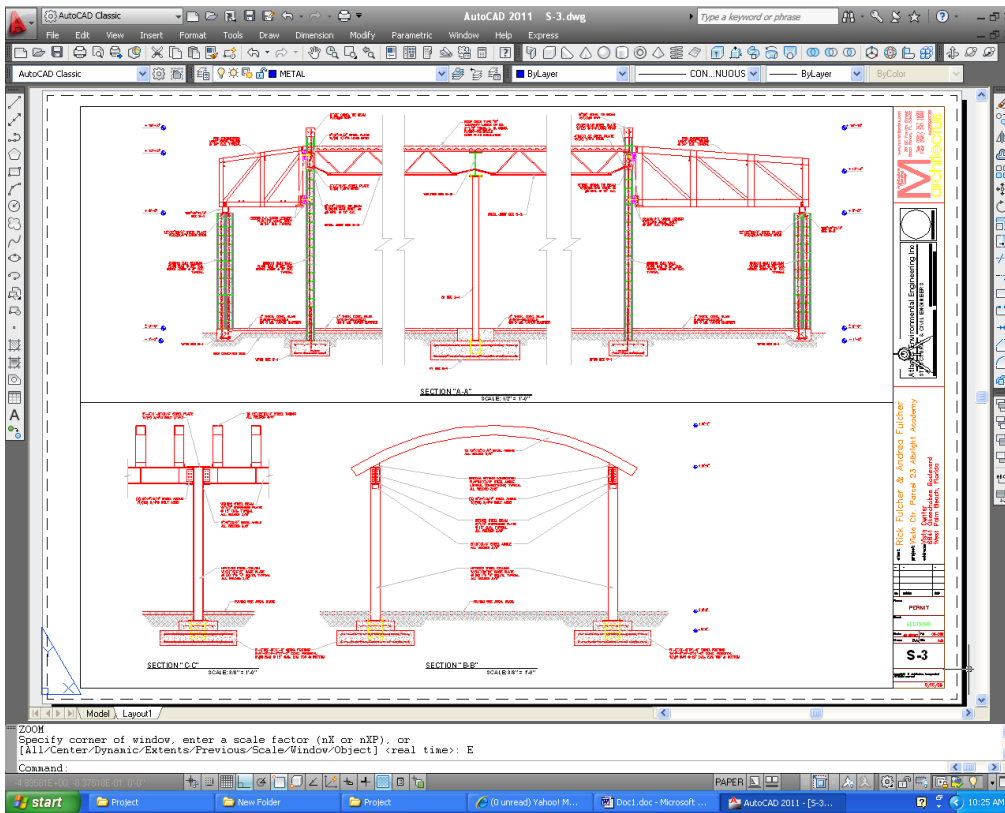
MARINE

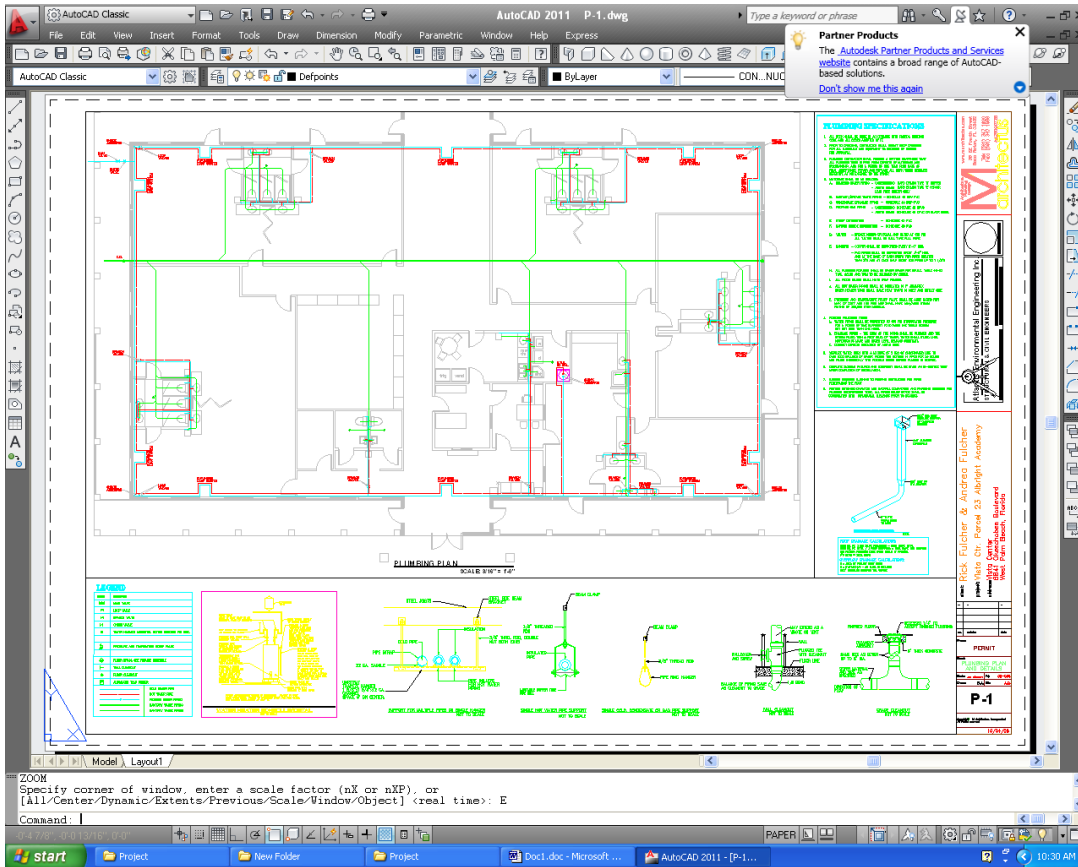
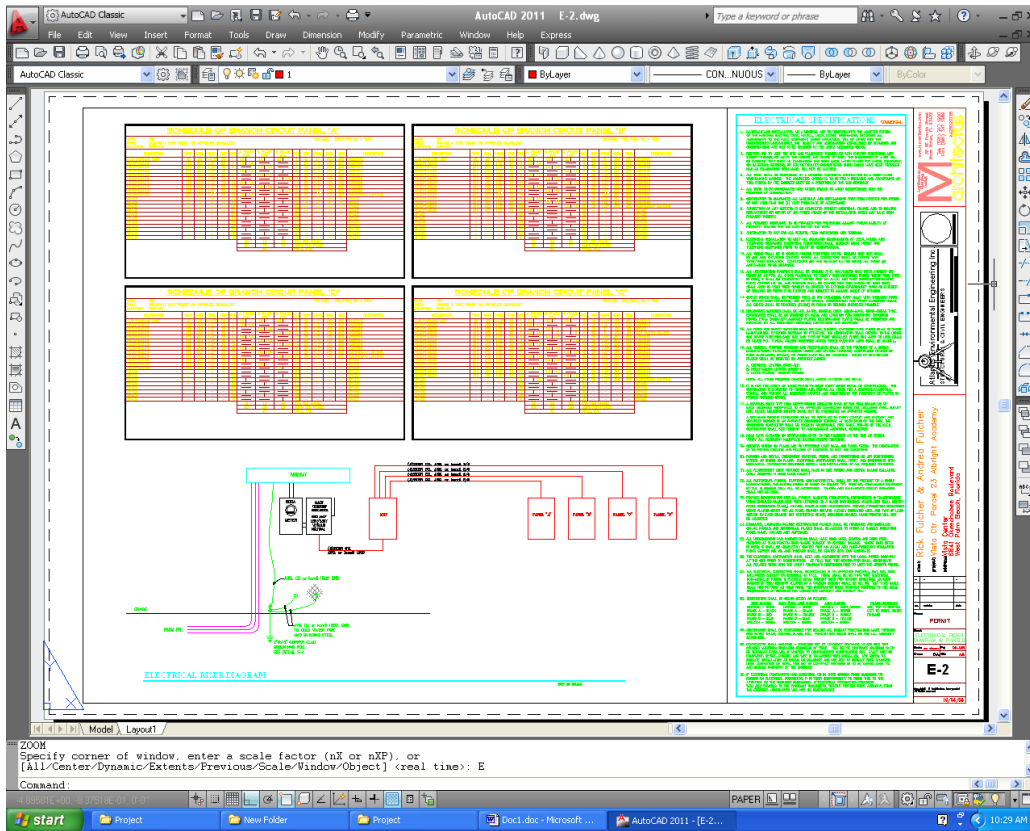


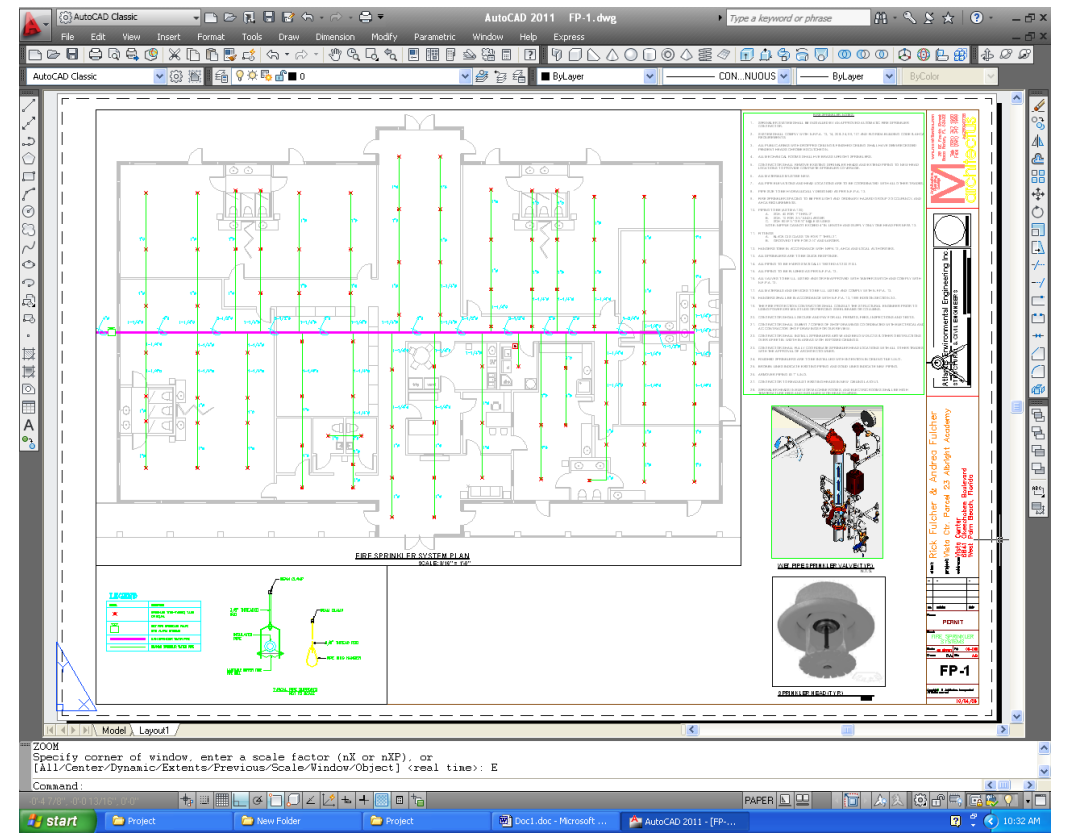
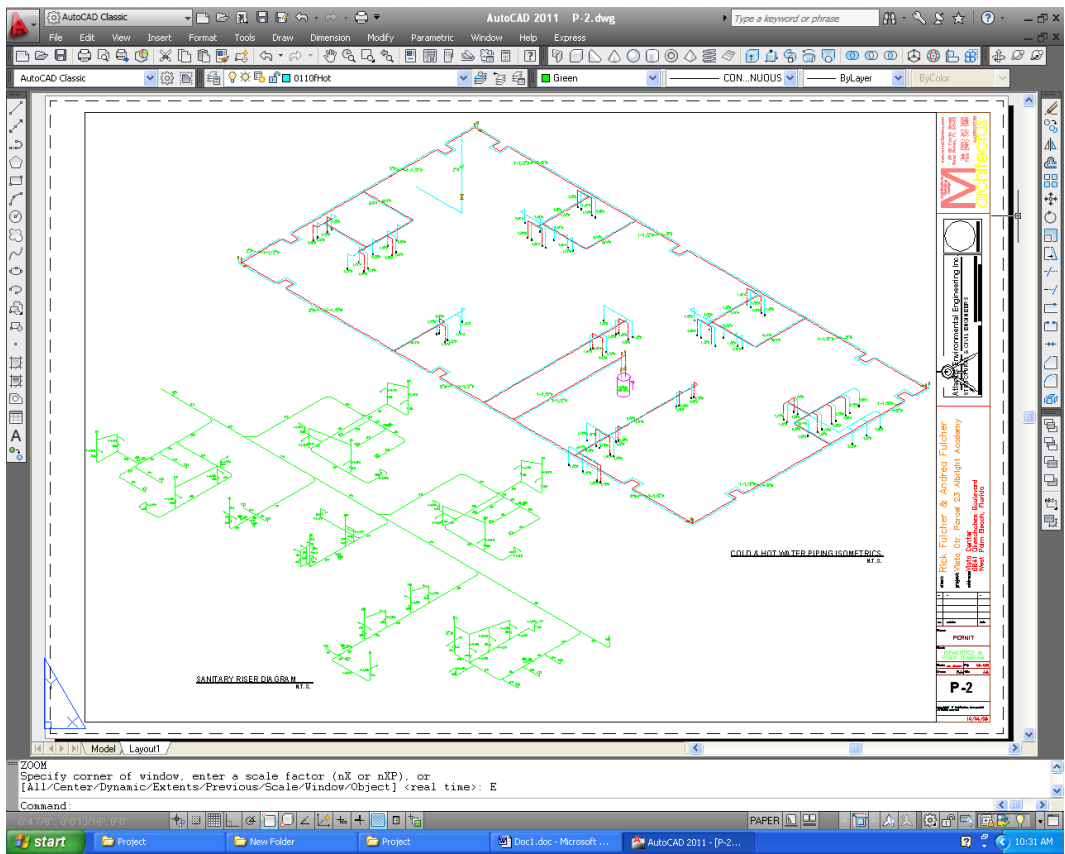
CIVIL

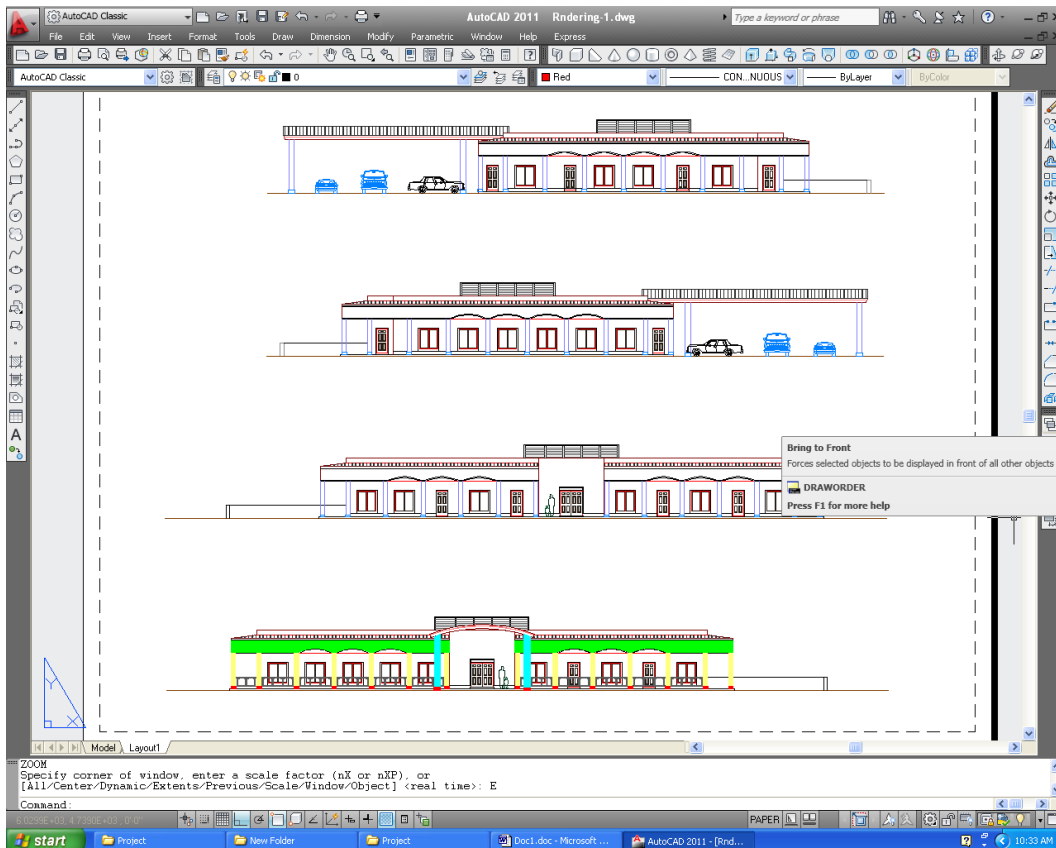
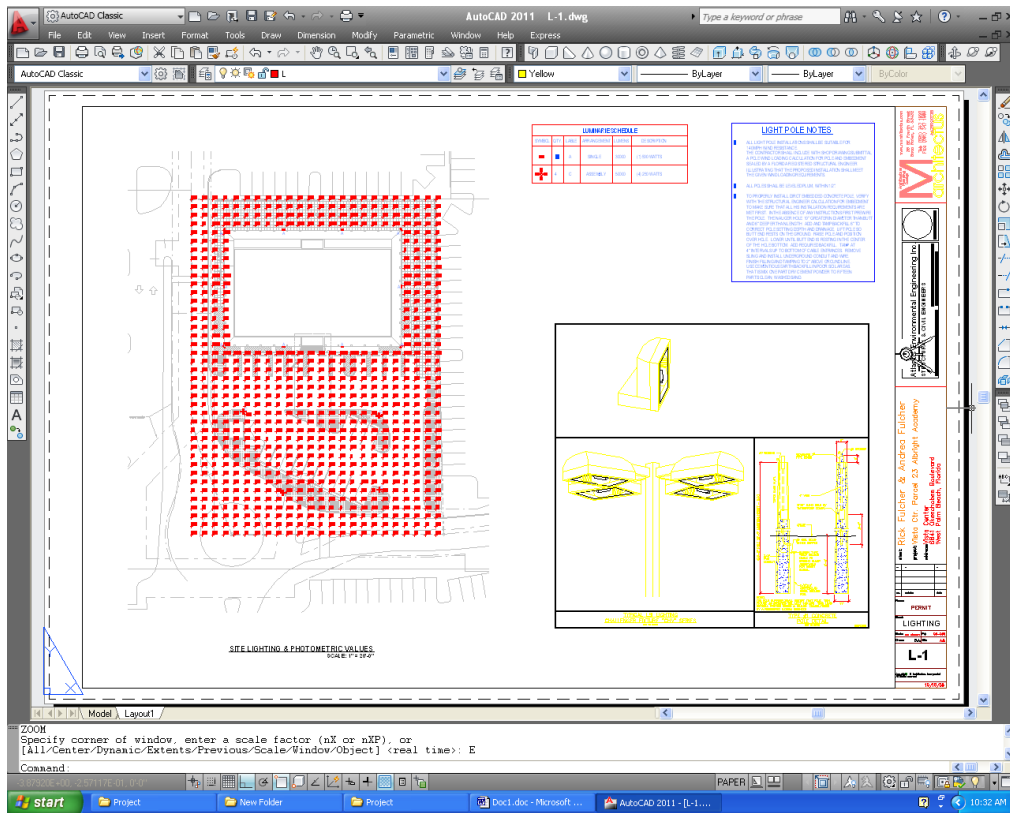
Project Name: TIKI HUT
Design by: Bijan Abidian

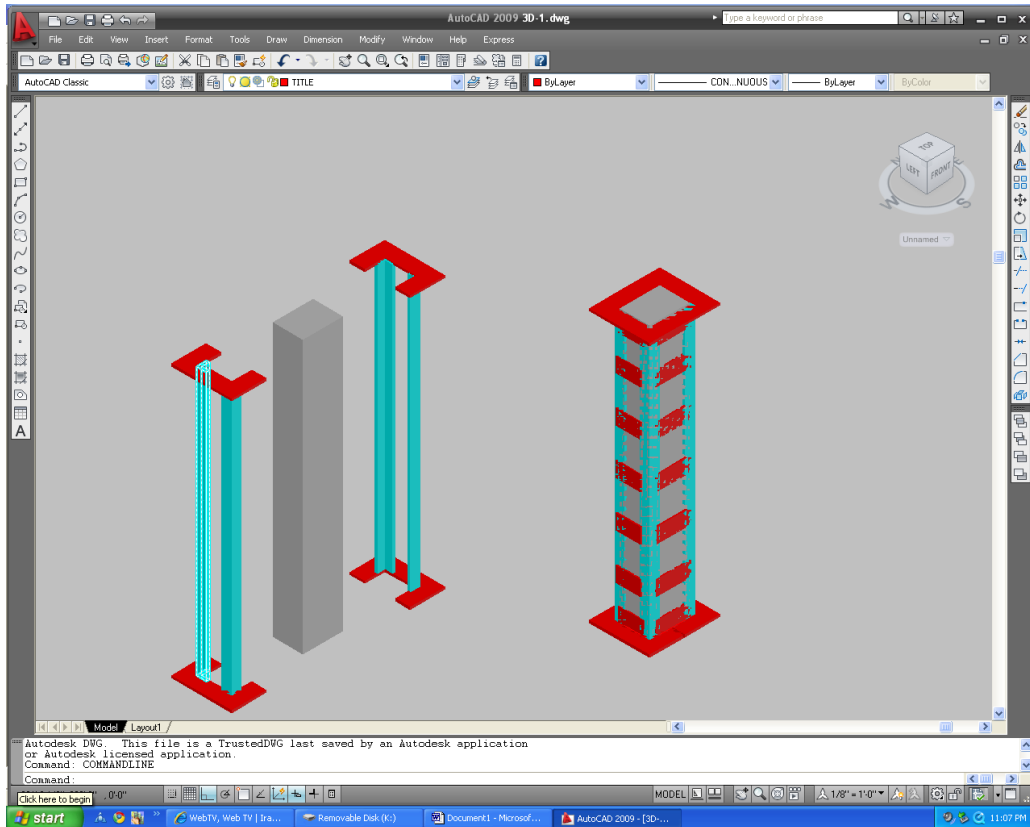
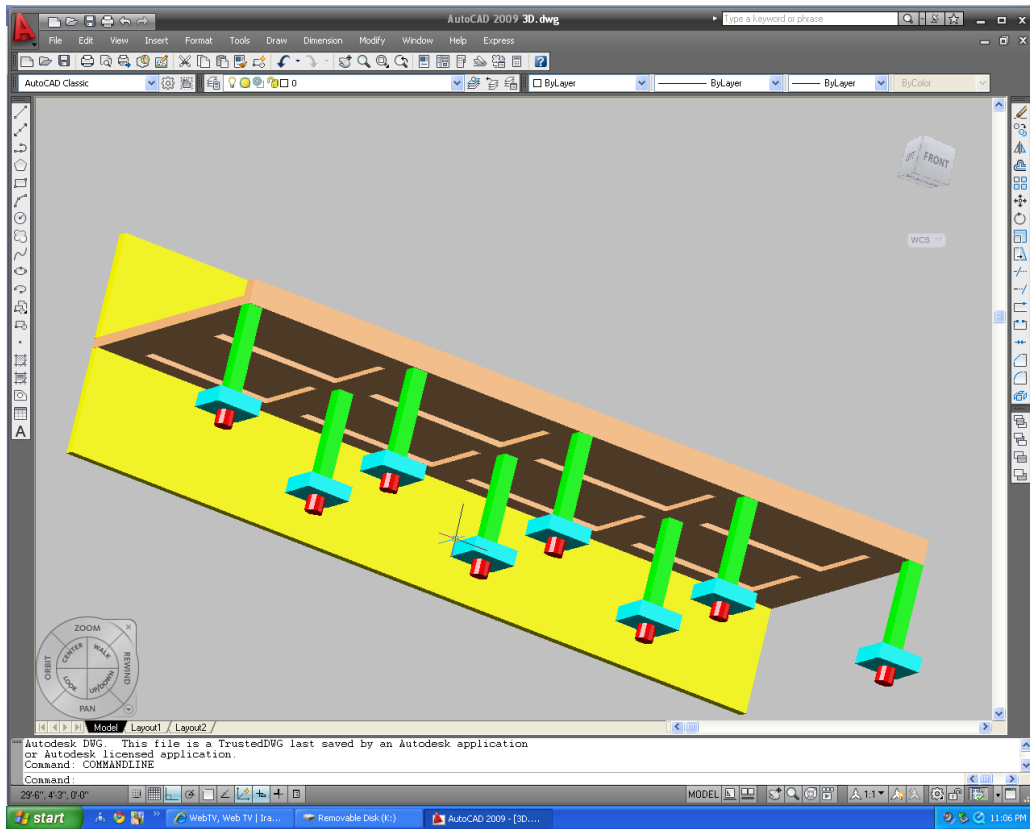


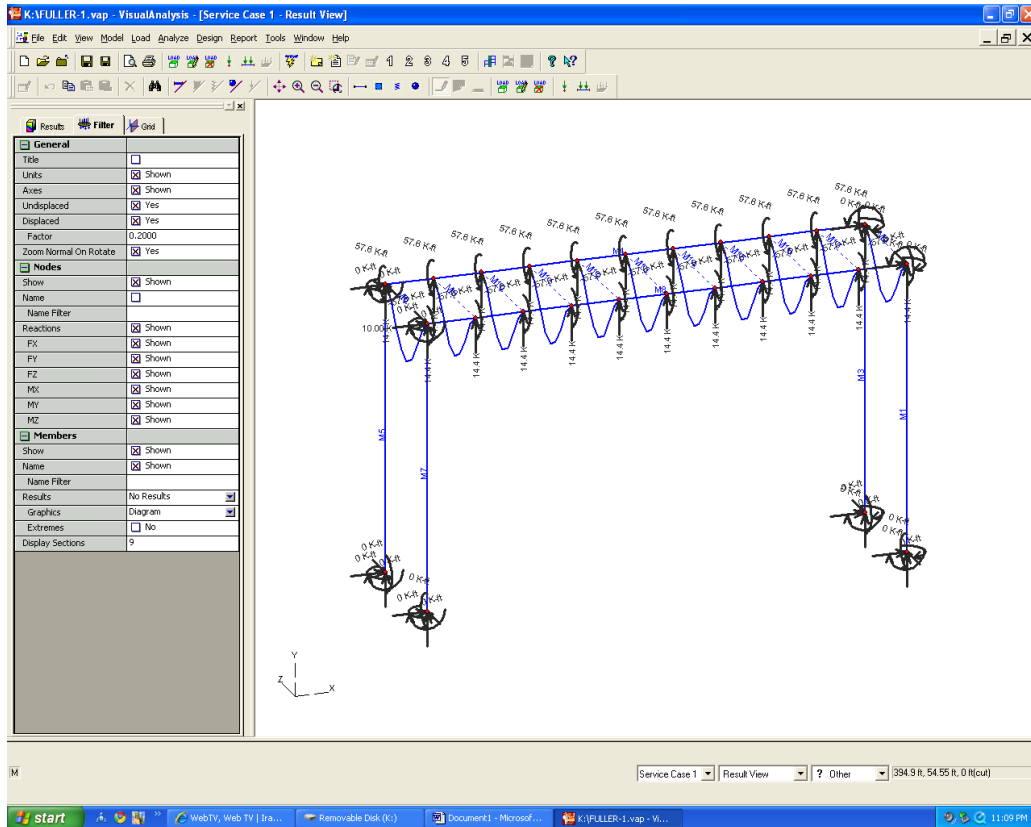
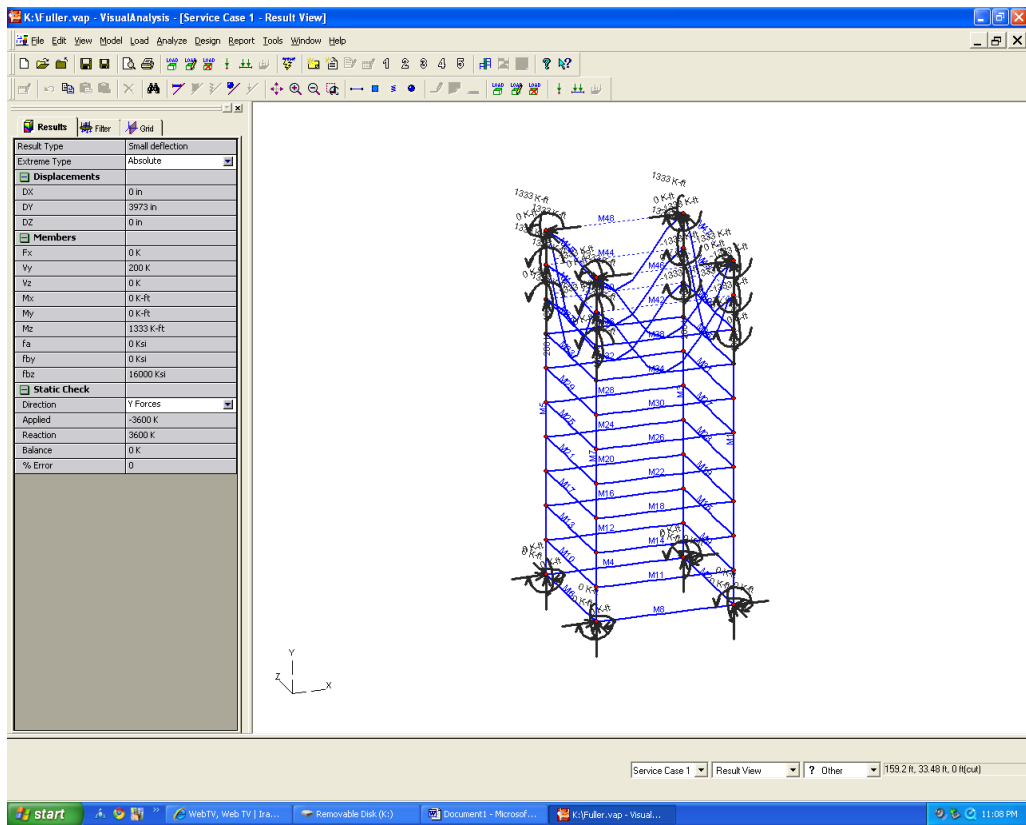


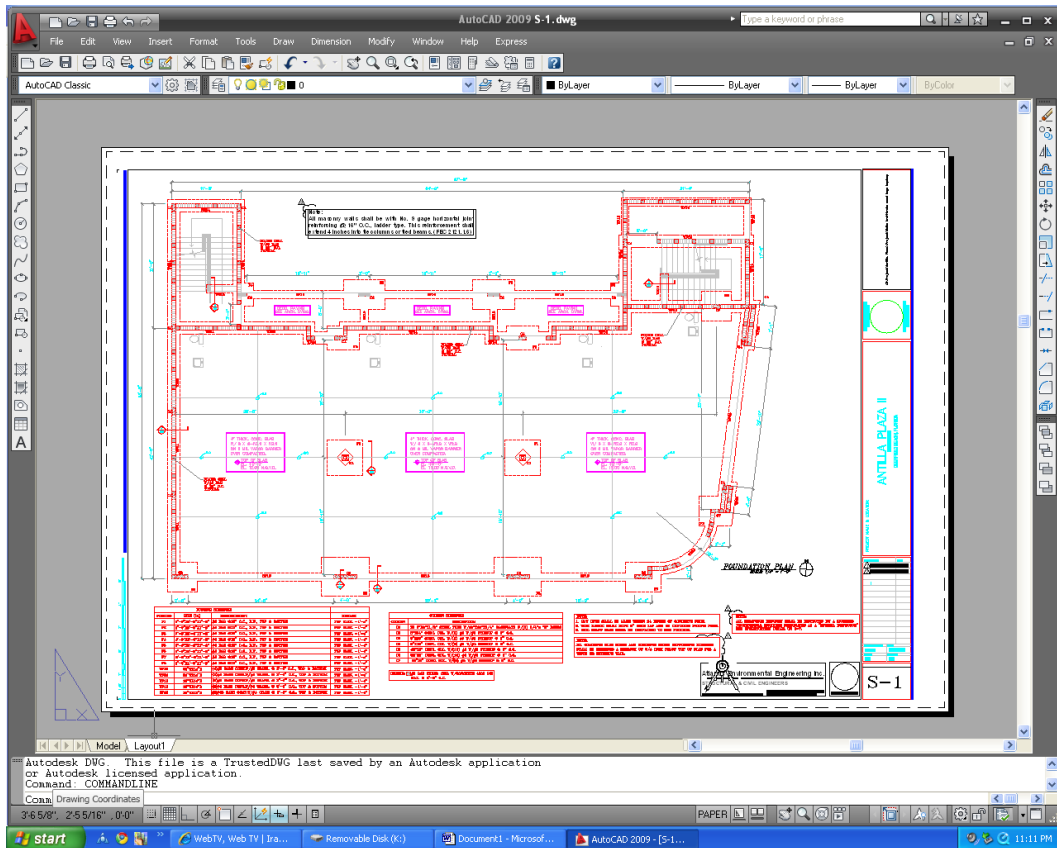
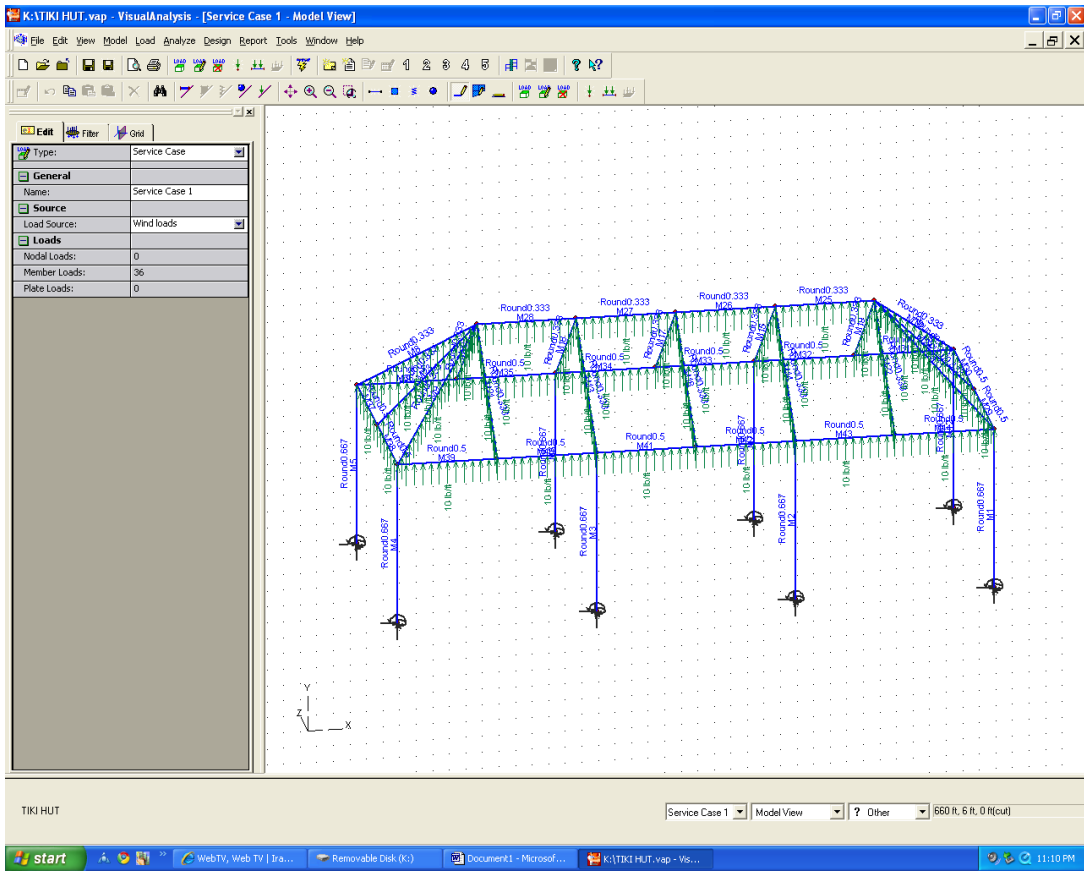


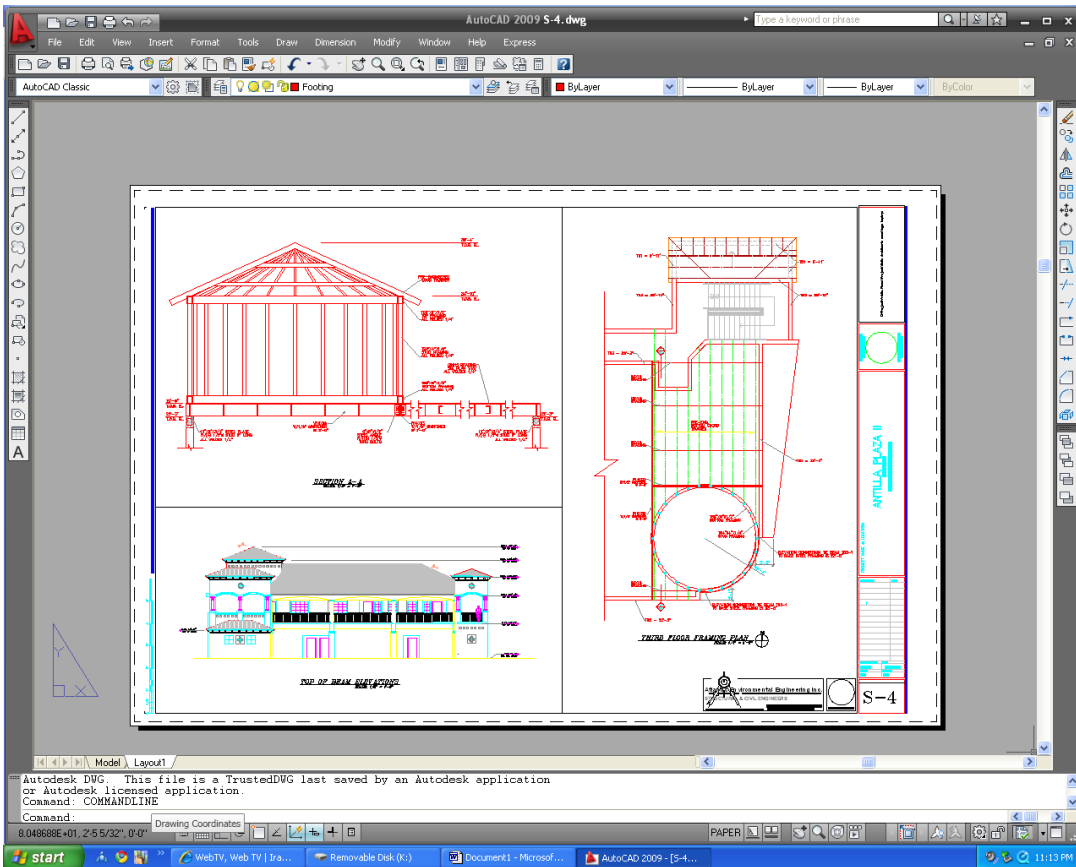
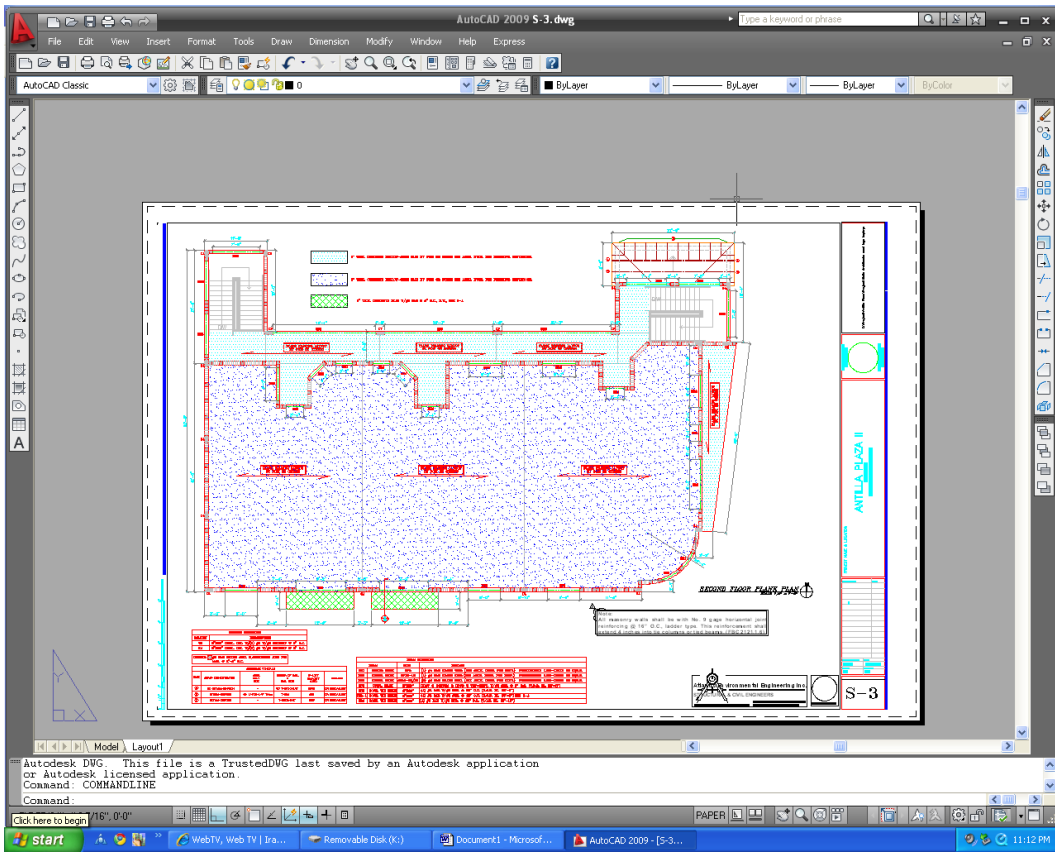


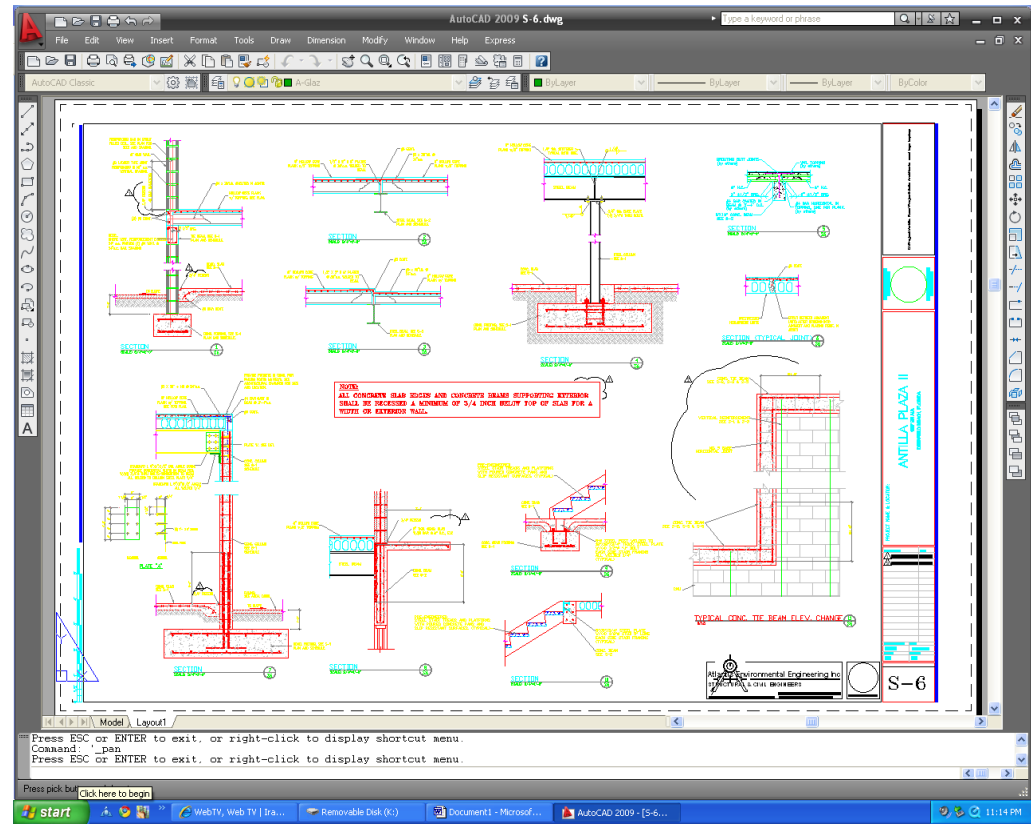
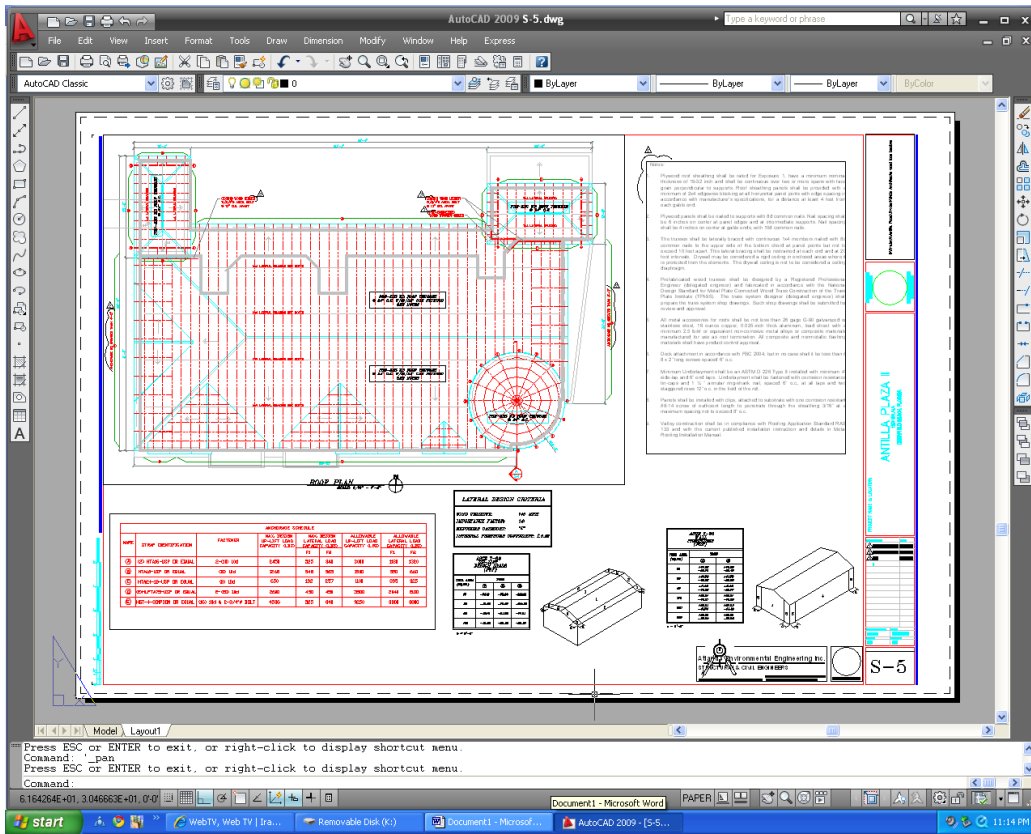






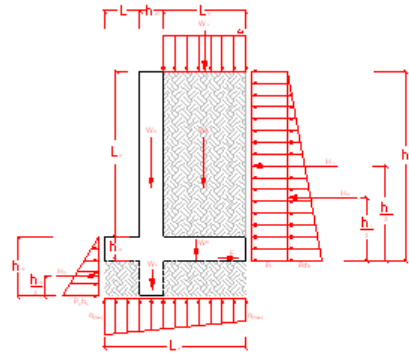






Project:
Pinnacle Village
Retaining Wall Calculations & Design

$PA := 30 \frac{\text{lb}}{\text{ft}^2}$
 $hT := 17\text{-ft}$
 $h := 1\text{-ft}$ Live Load Surcharge
 Backfill Lateral Pressure:
 $HA := \frac{PA \cdot hT^2}{2}$
 $HA = 4.335 \times 10^3 \text{ lbf}$
 Surcharge Lateral Pressure:
 $HL := PA \cdot hT \cdot h$
 $HL = 510 \text{ lbf}$



Taking moments about the toe gives:

$Mo := \frac{HA \cdot hT}{3} + \frac{HL \cdot hT}{2}$
 $Mo = 2.89 \times 10^4 \text{ ft} \cdot \text{lbf}$

The gravity loads acting are:

$wc := 150 \frac{\text{lb}}{\text{ft}^3}$
 $hw := 1.5\text{-ft}$
 $Lw := 15\text{-ft}$
 $hk := 4\text{-ft}$
 $hB := 2.0\text{-ft}$

$Ww := (wc \cdot hw \cdot Lw) \cdot (1\text{-ft})$
 $Ww = \text{# lbf}$
 $Wk := [wc \cdot (hk - hB) \cdot (hw)] \cdot (1\text{-ft})$
 $Wk = \text{# lbf}$
 $LB := 10\text{-ft}$
 $WB := (wc \cdot hB \cdot LB) \cdot (1\text{-ft})$
 $WB = \text{# lbf}$
 $W := 120 \frac{\text{lb}}{\text{ft}}$

Greek

| | | | | | |
|----------|------------|------------|----------|------------|----------|
| α | β | γ | δ | ϵ | ζ |
| η | θ | ι | κ | λ | μ |
| ν | ξ | \omicron | π | ρ | σ |
| τ | υ | ϕ | χ | ψ | ω |
| A | B | Γ | Δ | E | Z |
| H | Θ | I | K | Λ | M |
| N | Ξ | \O | Π | P | Σ |
| T | Y | Φ | X | Ψ | Ω |

Boolean

| | | | |
|--------|----------|--------------|----------|
| = | < | > | \leq |
| \geq | \neq | \downarrow | \wedge |
| \vee | \oplus | | |

Math

| | | | |
|---------------|----------------|--------|----------------|
| $x =$ | $\frac{d}{dx}$ | \int | $\frac{d}{dx}$ |
| $\alpha\beta$ | | | |

Calculator

| | | | | |
|-------------------|---------------|-----|----------------|-------------------|
| sin | cos | tan | ln | log |
| n! | i | x | $\sqrt{\quad}$ | $\sqrt[n]{\quad}$ |
| e^x | $\frac{1}{x}$ | () | \times^2 | \times^y |
| π | 7 | 8 | 9 | / |
| $\frac{1}{\quad}$ | 4 | 5 | 6 | \times |
| \div | 1 | 2 | 3 | + |
| \div | . | 0 | - | = |