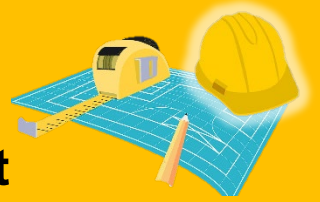




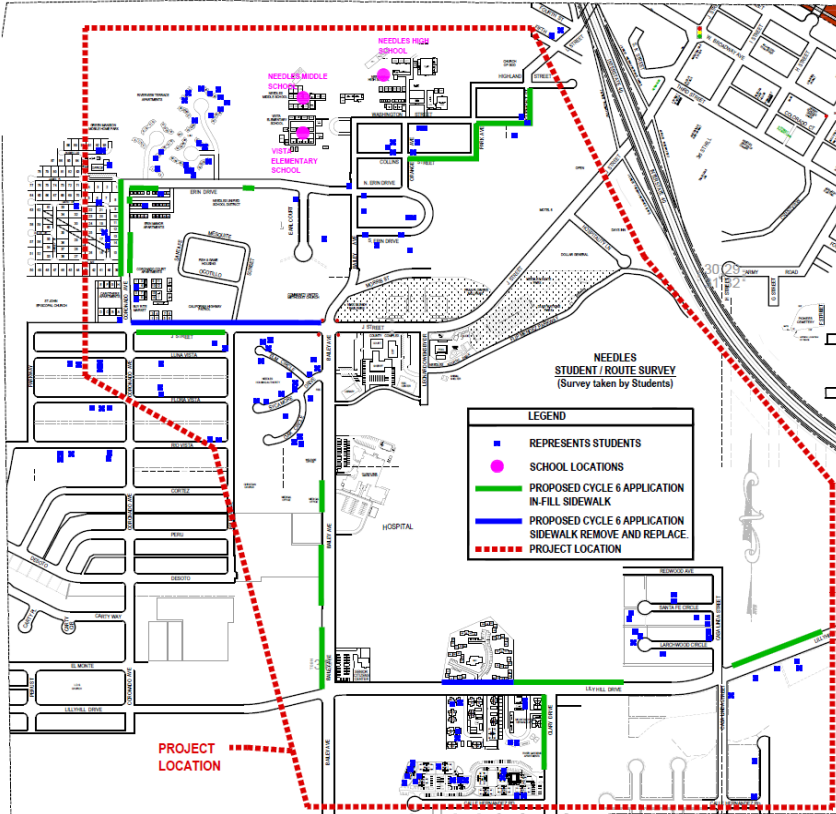
Request for Proposals (RFP)

To Provide Professional Engineering Services for Schools and Seniors' Sidewalk Project

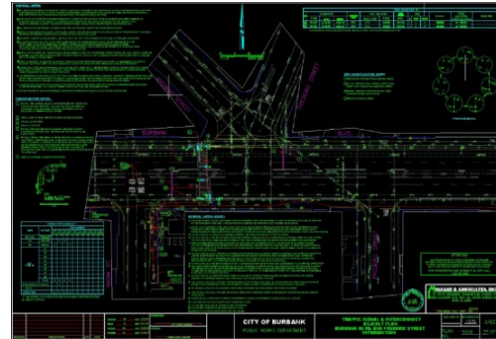


City of Needles, CA

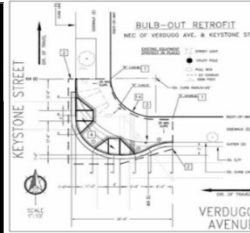
Project Location Map in the City of Needles



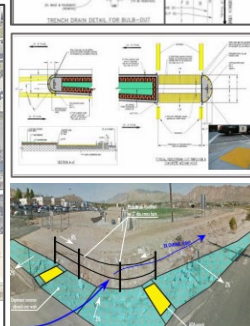
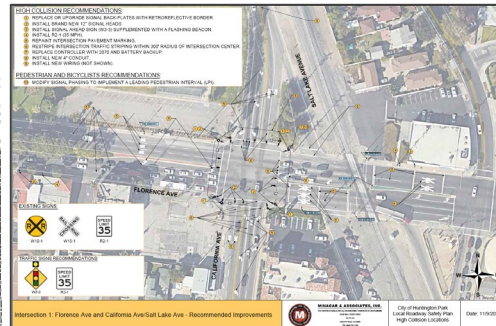
Minagar & Associates, Inc.'s Signing & Striping Plans for the City of Burbank



Minagar & Associates, Inc.'s ADA Ramp Plans



Minagar & Associates, Inc.'s Intersection Improvement Map for the City of Huntington Park



Minagar & Associates, Inc.'s Curb, Gutter, and ADA Ramp Improvements for the City of Yucca Valley's Safe Routes to Schools Project



PREPARED FOR:



CITY OF NEEDLES

Procurement Department
817 Third Street
Needles, CA 92363



PREPARED BY:



MINAGAR & ASSOCIATES, INC.

ITS – Traffic/Civil/Electrical Engineering – Transportation Planning – Homeland Security – CEM
23282 Mill Creek Drive, Suite 120
Laguna Hills, CA 92653



December 6, 2023

PROPOSAL

TO PROVIDE PROFESSIONAL ENGINEERING SERVICES FOR

SCHOOLS AND SENIORS' SIDEWALK PROJECT

FOR THE

CITY OF NEEDLES

PRESENTED TO:



CITY OF NEEDLES

Procurement Department
817 Third Street
Needles, CA 92363

PREPARED BY:



MINAGAR & ASSOCIATES, INC.

ITS – Traffic/Civil/Electrical Engineering – Transportation Planning – Homeland Security – CEM
23282 Mill Creek Drive, East Tower, Suite 120
Laguna Hills, CA 92653
Tel: (949) 707-1199

DECEMBER 6, 2023

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LIST OF APPENDICES

Appendix A: Key Personnel Resumes



Section 1 – Cover Letter

December 6, 2023

Mr. Patrick Martinez
City Manager
City of Needles
Procurement Department
817 Third Street
Needles, CA 92363

Re: **Request for Proposals to Provide Professional Engineering Services for Schools and Seniors' Sidewalk Project**

Dear Mr. Martinez,

On behalf of the Minagar & Associates, Inc. Team, I would like to take this opportunity to present to you our proposal to provide **Professional Engineering Services for Schools and Seniors' Sidewalk Project** in the City of Needles, CA.

Minagar & Associates, Inc. recognizes the City of Needles is seeking a qualified consultant to implementing sidewalk improvements to provide a safer and more welcoming environment for bicyclists and pedestrians in the City. Minagar is greatly experienced with collecting data, conducting analysis for, presenting, and executing safety projects, having [successfully completed 45+ safety projects](#).

Successfully completed safety projects include **Active Transportation Program (ATP), Federal & State Highway Safety Improvement Program (HSIP), Safe Routes to School (SR2S), and Local Roadway Safety Plan (LRSP) Projects**, including:

- **City of Needles' Local Roadway Safety Plan (LRSP)**
- City of Coachella's **ATP Cycle 1** ST-86 PS&E and Engineering Services for Citywide Active Transportation Program
- City of Coachella's **ATP Cycle 2** ST-100 PS&E and Engineering Services for Citywide Active Transportation Program
- City of Burbank's **HSIP Cycle 3** Engineering Services for Verdugo & Keystone
- City of Burbank's **HSIP Cycle 4** Engineering Services for Verdugo Ave Bike Lane Extension
- City of Coachella's **HSIP-5294** (006) Engineering Services for Citywide Traffic Control & Street Name Sign Upgrade
- City of Yucca Valley's **SR2S Engineering and PS&E**
- City of Coachella's **SR2S Cycle 8** PS&E Engineering Services for Citywide Safe Routes to School Improvement Project
- City of Colton's Review as City Traffic Engineer of **Local Roadway Safety Plan (LRSP)**
- City of Huntington Park's **Local Roadway Safety Plan (LRSP)**
- City of Guadalupe's **Local Roadway Safety Plan (LRSP)**
- City of Big Bear Lake's **Local Roadway Safety Plan (LRSP)**





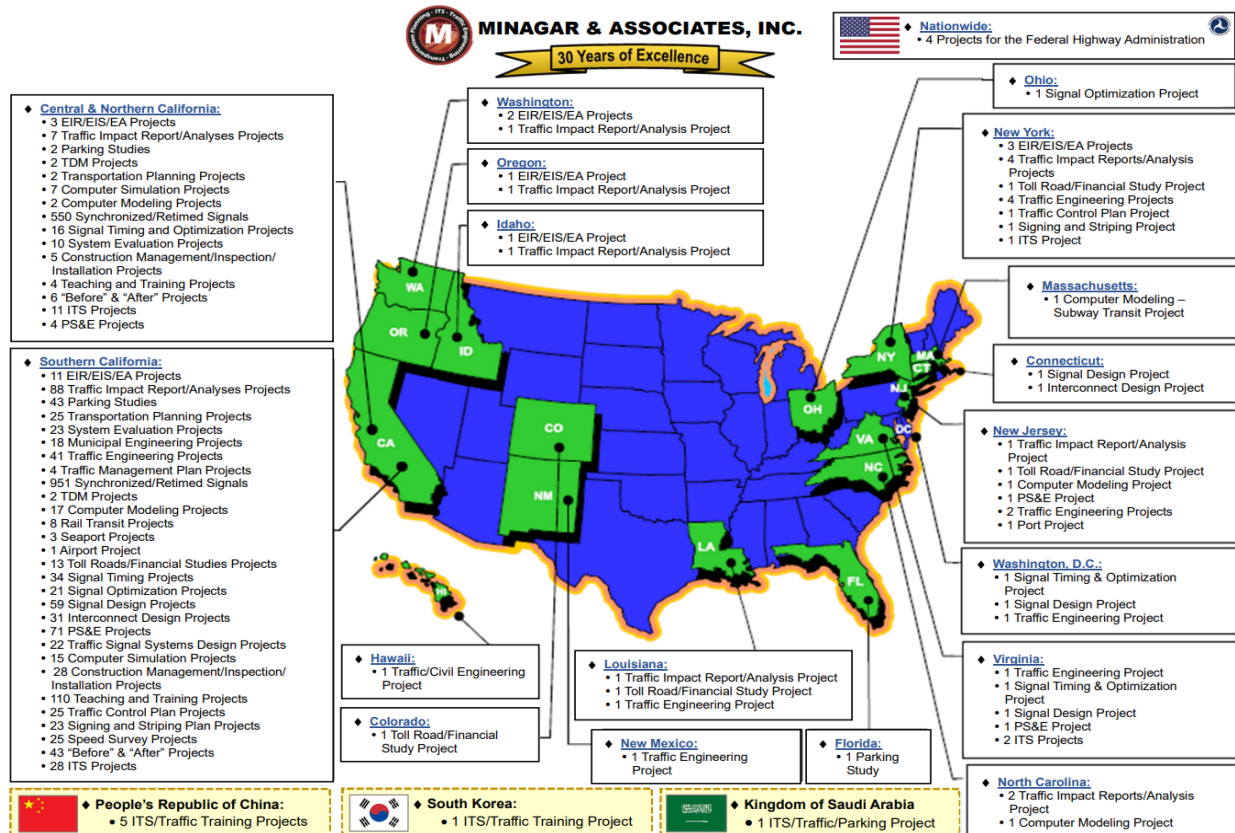
MINAGAR & ASSOCIATES, INC.

Traffic/Civil/Electrical Engineering – ITS – Transportation Planning & CEM



Since 1993, our firm has also completed the following projects:

■ 900+ Nationwide Projects



■ 120+ Traffic Signal Plans, Specifications & Estimates (PS&E) Projects

■ 1600+ Signals' Re-timing & Synchronization

- 951 in Southern California, 550 in Northern California, 107 in other States

■ 400+ Traffic Control Plan (TCP), Traffic Signal & ITS Design Projects

■ 350+ Traffic Studies

■ 50+ Parking Studies

■ 40+ ITS (Intelligent Transportation Systems) Design & Deployment Projects

■ 25 Citywide Engineering and Traffic Speed Surveys (E&TS)

■ 9 Multi-Year Contracts as designated City Traffic Engineer for the following public agencies:

- City of San Bernardino
- City of Colton
- City of Chino Hills
- City of Rancho Santa Margarita
- City of Beaumont
- City of South Pasadena
- City of El Monte
- City of Baldwin Park
- City of Gardena





MINAGAR & ASSOCIATES, INC.

Traffic/Civil/Electrical Engineering – ITS – Transportation Planning & CEM



Minagar & Associates, Inc. combines statewide and region-level expertise in traffic management with local responsiveness and knowledge. Fred brings the technical/political know-how as a **24-year-elected Mayor/Mayor Pro Tem/Council Member and appointed Planning Commission Chairman & Commissioner and Traffic Commission Chairman and Commissioner.**



Minagar & Associates, Inc. has all the resources and skills necessary to provide services for this Project in the City of Needles. All work will be completed directly from the singular office location in Laguna Hills, CA.

As the Officer-in-Charge, I accept all terms and conditions outlined in the RFP and declare we have no exceptions or deviations from the information stated, and affirm that all information submitted in this proposal is true and correct. Minagar & Associates, Inc. acknowledges receipt of the responses to questions and affirms that this proposal is valid in its entirety up to **90 days** from the date of its submittal.

Please feel free to contact me directly with any additional questions you might have at **(949) 707-1199 ext. 2#** or via e-mail at minagarf@minagarinc.com. We look forward to the opportunity to work with staff and the local community in improving conditions for pedestrians and bicyclists.

Sincerely,

MINAGAR & ASSOCIATES, INC. (a State of California SBE firm)



Fred Minagar, MS, RCE, PE, FITE
President/Senior Project Manager



Federal UEI No: ZDF6N7LE3EN9

Federal SAM CAGE CODE: 7RM72

DUNS No: 946106762

California State DGS SBE No:39170





Section 2 – Statement of Interest and Background

Minagar & Associates, Inc. is the right, qualified firm to provide this project for the City of Needles. In addition to our history of successfully delivering safety projects, we have also previously completed projects and services with the City of Needles.

When it comes to care, attention to detail, stretching the clients' dollars, and delivering within schedule and budget, the Minagar & Associates, Inc. Team treats the small and large assignments the same and ensure that its clients' goals are achieved. We will take full responsibility for the quality and accuracy of each deliverable and will ensure that the work is done right the first time. We will not submit incomplete or substandard technical documents and will make sure that all critical and viable comments/concerns are addressed.

We are a team of highly qualified technical staff and former local, regional, and State engineers and managers who have successfully delivered and continue to deliver safety projects, and will do the same for the City of Needles in this School and Seniors' Sidewalk Project.

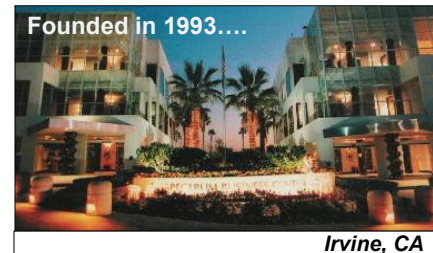
Section 3 – Business Information

Minagar & Associates, Inc. is an established full-service traffic engineering firm and “S” Corporation, headquartered in Laguna Hills, CA. Minagar has 30 years of experience and is specialized in the areas of:

- **Traffic/Civil/Electrical Engineering & Consulting**
- **Transportation Planning**
- **Municipal Engineering Services**
- **Construction Engineering Management (CEM)**
- **Intelligent Transportation Systems (ITS)**
- **Traffic Control Plans (TCP)**

Fred Minagar, the President and Principal of the company, is authorized to legally bind Minagar & Associates, Inc.

Since Minagar & Associates, Inc.'s inception in 1993, the firm has completed over 900 traffic engineering projects in 14 counties and 86 cities in the State of California, as well as 17 other states from Hawaii to New York. Specifics on Minagar & Associates, Inc.'s project experience and expertise is provided in the following section.



Irvine, CA



Irvine, CA

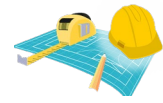


Laguna Hills, CA





**PROPOSAL to Provide Services for
SCHOOLS & SENIORS' SIDEWALK PROJECT**
CITY OF NEEDLES, CA



Section 4 – Experience/Qualifications Information

Minagar is already familiar with the conditions and needs of the vicinity of the City of Needles, having completed projects for the City such as the Local Roadway Safety Plan in 2022.

Minagar & Associates, Inc. has also completed numerous projects for jurisdictions in the Counties of San Bernardino and Riverside, such as the Cities of **Big Bear Lake**, **Yucca Valley**, and **Desert Hot Springs**. Other past clients include the Federal Highway Administration (FHWA) and Caltrans Districts 5, 6, 7, 8, 10, 11, 12, & HQ.



Additionally, Minagar has the skills and experience needed for this Schools and Seniors' Sidewalk Project due to completing the following projects in the past. Some of these projects are detailed further in **Section 6 – References**, accompanied by client contact information.

- City of Coachella's **ATP Cycle 1** ST-86 PS&E and Engineering Services for Citywide Active Transportation Program
- City of Coachella's **ATP Cycle 2** ST-100 PS&E and Engineering Services for Citywide Active Transportation Program
- City of Burbank's **HSIP Cycle 3** Engineering Services for Verdugo & Keystone
- City of Burbank's **HSIP Cycle 4** Engineering Services for Verdugo Ave Bike Lane Extension
- City of Coachella's **HSIP-5294** (006) Engineering Services for Citywide Traffic Control & Street Name Sign Upgrade
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- City of Coachella's **SR2S Cycle 8** PS&E Engineering Services for Citywide Safe Routes to School Improvement Project
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- City of Huntington Park's **Local Roadway Safety Plan (LRSP)**
- City of Guadalupe's **Local Roadway Safety Plan (LRSP)**
- City of Big Bear Lake's **Local Roadway Safety Plan (LRSP)**



Other successfully completed projects include:

- **900+ Nationwide Projects**
- **80+** Plans, Specification & Estimates (PS&E)
- **120+** Traffic Signal Operations Studies & Traffic Impact Analyses (TIA)
- **1,600+** Synchronized & Retimed Signals and System Evaluations
 - 951 in Southern California
 - 550 in Northern California





**PROPOSAL to Provide Services for
SCHOOLS & SENIORS' SIDEWALK PROJECT
CITY OF NEEDLES, CA**



- 107 in other States
 - **40+** ITS Projects
 - **25** Traffic Control Plans (TCP)
 - **25** EIS/EIR Projects
 - **350+** Traffic and Safety Studies
 - **50+** Parking Studies
 - **25+** Citywide Engineering and Traffic Surveys (E&TS)
 - **9** Multi-Year Contracts as designated City Traffic Engineer for the following public agencies:
- ***City of San Bernardino***
 - ***City of Colton***
 - ***City of Chino Hills***
 - ***City of Rancho Santa Margarita***
 - ***City of Beaumont***
 - ***City of South Pasadena***
 - ***City of El Monte***
 - ***City of Baldwin Park***
 - ***City of Gardena***



Additionally, over 85% of the Minagar & Associates, Inc.'s projects are from repeat clients and client referrals. The following figures show some of Minagar & Associates, Inc.'s public and private sector clients over the past 30 years.





**PROPOSAL to Provide Services for
SCHOOLS & SENIORS' SIDEWALK PROJECT
CITY OF NEEDLES, CA**



Representative Private Sector Clients Tree



Minagar & Associates, Inc. is also the recipient of several local, regional, state and national awards in traffic signal timing and ITS. Recent notable awards include:



- Orange County Engineering Council's (**OCEC**) 2019 *Outstanding Engineering Services Award*
- **ASCE's** 2016 Outstanding Civil Engineer in the Private Sector in the State of California Award
- **ASCE** Los Angeles Section's Outstanding Civil Engineer in the Private Sector Award
- **ASCE** Orange County's 2016 *Outstanding Civil Engineer* in Private Sector Award
- Orange County Engineering Council's (**OCEC**) 2016 *Outstanding Engineering Services Award*
- **Cal-EPA/California** Air Resource Board's *Cool California Climate Leader Award* (2012)
- **ASCE's** *Outstanding Private Sector Civil Engineering Project in Metropolitan Los Angeles*
- **L.A. County Metro's** *Award of Excellence* for three separate years
- **Caltrans' Excellence in Transportation Award** in the State of California
- **ASCE's** *Outstanding Public/Private Sector Civil Engineering Project* in Metropolitan L.A.
- **APWA's** *Best Traffic Congestion Mitigation Project of the Year in Southern California*
- **PTI's** *Best Transportation Technology Solutions Award in the United States*
- **ITS-CA's** *Best Return on Investment Project Award in the State of California*

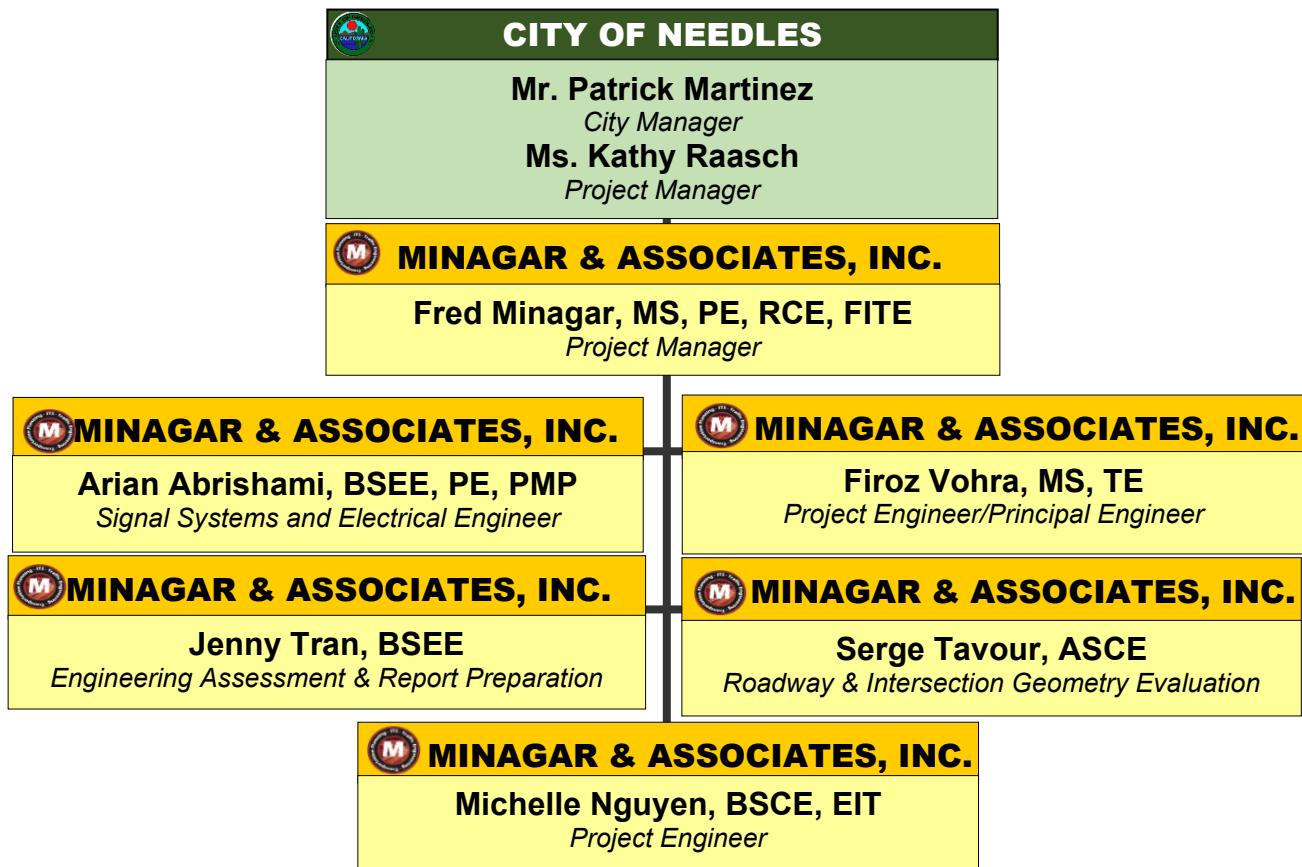




Proposed Project Team

The following Minagar & Associates, Inc. staff members are proposed to provide services for the City of Needles without the assistance of any subconsultants. Minagar acknowledges no members of the key personnel will be modified or removed without written concurrence from the City. Full resumes detailing qualifications and past experience of each project team member are provided in **Appendix A**.

Organization Chart



Key Personnel Responsibility and Availability Chart

Project Team Members	Years of Experience	Percent Available (%)	Experience and Expertise				
			Project Management	Survey & Research, Environmental Clearance & Utilities	Data Collection	Preparation of PS&E	Bidding Assistance & Construction Engineering
Fred Minagar, MS, PE, RCE, FITE	39	65	✓	✓	✓	✓	✓
Arian Abrishami, MSEE, PE, PMP	32	70			✓	✓	✓
Firoz Vohra, MS, TE	37	85	✓	✓	✓	✓	
Serge Tavour, ASCE	37	90		✓			
Jenny Tran, BSEE	4	75	✓	✓	✓		
Michelle Nguyen, BSCE	4	75		✓	✓	✓	✓





Section 5 – Approach/Methodology

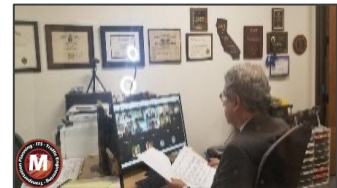
The following sections detail Minagar & Associates, Inc.'s methodology and work plan for preparing the City of Needles' Schools and Seniors' Sidewalk Project. The following proposed tasks and scope of services are subject to change depending on the City's preferences and priorities, and will be finalized following the kick-off meeting.

Phase I – Topographic Survey, Utility Research, & Project Data Collection

Task 1: Project Management

Minagar will initiate the project process with an in-person kick-off meeting with City of Needles staff. At this meeting, the project objectives, budget/funding, schedule, scope of work, and tasks will be finalized.

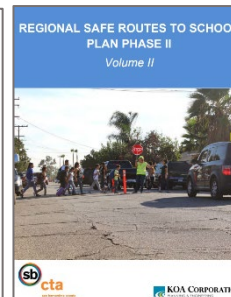
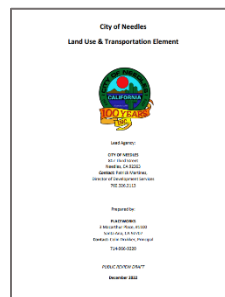
Minagar will prepare a schedule of follow-up progress meetings with City staff to discuss plan updates and address any concerns or issues that may arise. These meetings can be in-person or virtual and monthly, bi-monthly, or as-needed, depending on the City's preference. Minagar's emphasis on clear and consistent communication and updates is the foundation of our successful project deliveries.



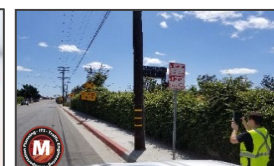
Task 2: Review of Existing Resources & Data Collection

Minagar staff will review relevant existing documents such as the City's existing General Plan, Land Use & Transportation Element, and previous efforts to improve pedestrian and bicyclist facilities by the City and neighboring jurisdictions. This includes:

- City of Needles General Plan
- City of Needles Land Use & Transportation Element
- San Bernardino County Transportation Authority (SBCTA) Regional Safe Routes to School Plan
- San Bernardino County Non-Motorized Transportation Plan



Subsequently, Minagar will perform field surveys to note existing roadway conditions and additional needs. Any areas needing additional improvements from the proposed scope of work will be noted. A 4K drone may be used for optimal field reconnaissance.



Task 3: Topographic Survey & Utility Research

Minagar will perform a topographic survey following the guidelines stated in the RFP. Additionally, right-of-way boundaries will be researched, the location of utilities and utility easements will be





**PROPOSAL to Provide Services for
SCHOOLS & SENIORS' SIDEWALK PROJECT
CITY OF NEEDLES, CA**

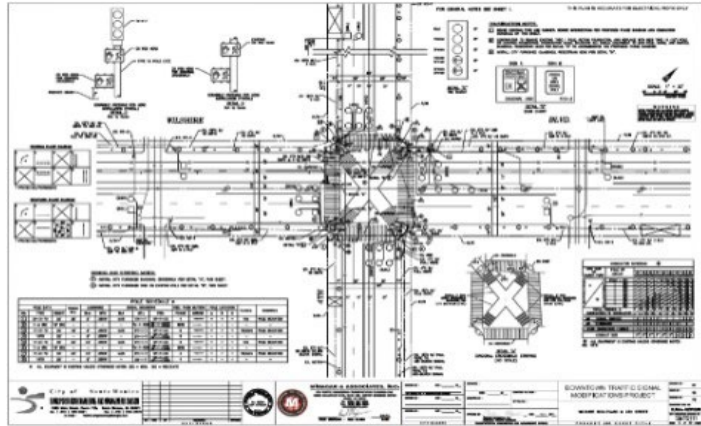


determined, and any affected utility companies will be coordinated with and any conflicts will be resolved. Utility communication will be recorded on a log and provided to City Staff to keep them informed. Detailed survey notes and electronic mapping files will be plotted on AutoCAD and all existing conditions will be identified.

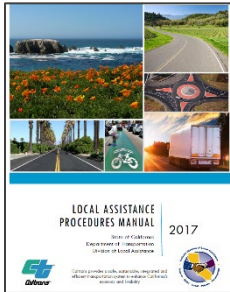
Phase II – Preliminary Design Plan/Environmental

Task 4: Preliminary Concept Design Plans

Minagar will prepare 30% plans for the proposed improvements and identify associated impacts and costs. The concept plans will include the existing and proposed right-of-way, curbs, sidewalks, driveways, striping, signs, centerlines, etc. The 30% plans will minimize right-of-way costs and will be accompanied by a detailed preliminary cost estimate itemizing all construction elements.



Sample Minagar & Associates, Inc. Plans



Task 5: Environmental, Right-of-Way, and Utility Clearance



Minagar will prepare any environmental, right-of-way, and utility clearance documentation to satisfy Caltrans Local Assistance or CEQA guidelines and standards. Any additional technical studies, assessments, consultations or

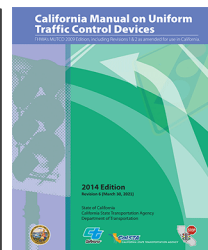
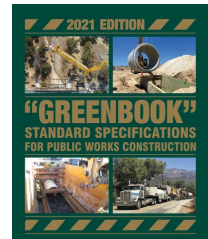
a Notice of Determination will be prepared if necessary.

Phase III – Final Design Plans, Specifications, & Estimates (PS&E)

Task 6: 60%, 90%, and 100% Plans, Specifications, and Estimate (PS&E)

General provisions & technical specifications are prepared with the lead agency's boilerplate specifications. All final plans & specs, signed and sealed by our California Registered Civil engineers, will conform to local (City/County/APWA Greenbook) and/or state (Caltrans) guidelines and plan preparation manuals. Final signed/sealed plans are submitted on 24"X36", 4-millimeter Mylar sheets, or on vellum medium if requested by the agency, at a scale of 1" = 20' or 1" = 40', depending on the type of plan.

All project contract documents and special provisions will be completed in a format consistent with current City projects and guidelines. Additionally, a Resident Engineer's file will be prepared and submitted with plans and specifications,





construction quantities, engineer's estimate, background calculation work sheets, survey data, utility file, right-of-way file, and all relative project information.

Phase IV – Bidding Assistance

Task 7: Bidding Assistance

Minagar will assist the City during project bidding by attending any pre-bid meetings, answering questions, and providing clarification of the contract documents as requested by the city. Minagar can also prepare addenda if needed. Subsequently, Minagar & Associates, Inc. will review bids and provide recommendation for award.



Phase V – Construction Engineering

Task 8: Construction Engineering

Minagar will assist the City in reviewing submittals, requests for information (RFIs), Change Orders, and any disputes that may arise during construction. A survey will be provided to lay out the work in accordance with the plans during construction, and Minagar will provide inspection services as needed at significant intervals such as survey, layout of the work, 25%, 50%, 75%, and 100% construction completion. Finally, Minagar will provide construction punch list at substantial completion of the project.

Quality Assurance/Quality Control

Throughout the entire project process, Minagar & Associates, Inc. will maintain meticulous quality assurance/quality control measures to ensure efficient and effective delivery of the project. Our team will take full responsibility for the quality and accuracy of each deliverable and will ensure that all work is done right the first time. We will not submit incomplete or substandard technical documents and will ensure that all critical comments and concerns are addressed.

When it comes to care, attention to detail, stretching the clients' dollars, and delivering within schedule and budget, the Minagar & Associates, Inc. Team treats the small and large assignments the same and ensure that its clients' goals are achieved. We are a team of highly qualified technical staff and former local, regional, and State transportation agency engineers and managers who have successfully delivered and continue to deliver roadway infrastructure and traffic improvement projects, and will provide the City of Needles with the best quality service for the completion of this project.





**PROPOSAL to Provide Services for
SCHOOLS & SENIORS' SIDEWALK PROJECT**
CITY OF NEEDLES, CA



Proposed Project Schedule

The proposed project schedule is shown below. This schedule is subject to change until its finalization at the kick-off meeting. Minagar & Associates, Inc. is committed to completing this project for the City of Needles in less than 9 months, by the end of September 2024.

Task #	Description	Year	2024																																				
	NTP = <div></div>	Month	JAN			FEB				MAR				APR				MAY				JUN				JUL				AUG				SEP					
		Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
	Phase I - Topographic Survey, Utility Research, and Project Data Collection																																						
1	Project Kick-off Meeting	1W																																					
	Progress Meetings					1W				1W				1W				1W				1W				1W				1W						1W			
2	Review Existing Resources				3W																																		
	Data Collection							4 W																															
3	Topographic Survey, Utility Research								4 W																														
	Phase II - Preliminary Design Plan/Environmental																																						
4	Preliminary 30% Concept Plans									3W		★																											
5	Prepare Environmental, Right-of-Way, and Utility Clearance												6 W																										
	Phase III - Final Design Plans, Specifications, & Estimate (PS&E)																																						
6	60% PS&E																	6 W		★																			
	90% PS&E																								6 W			★											
	100% PS&E																															4 W		★					
	Phase IV - Bidding Assistance																																						
7	Bidding Assistance Services																																						
	Phase V - Construction Engineering																																						
8	Construction Engineering Services																																						
	1 W: Within 1 Week ★ Milestone * Tentative NTP Date																																						



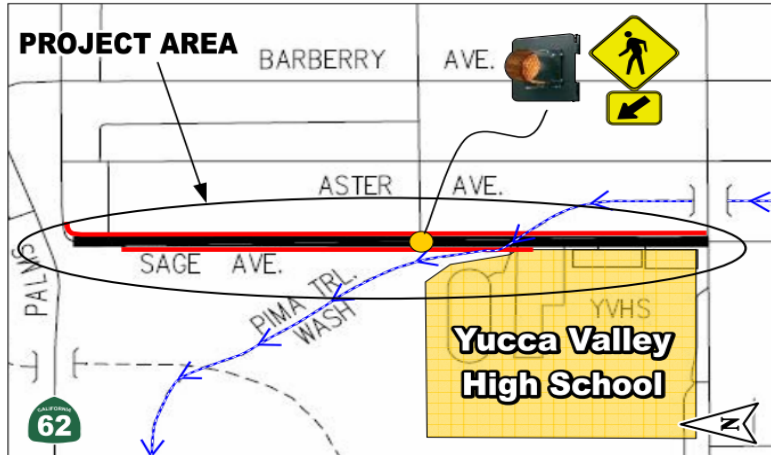


Section 6 - References

Minagar & Associates, Inc.'s relevant project experience is summarized below and on the following pages, accompanied by client contact information.

1

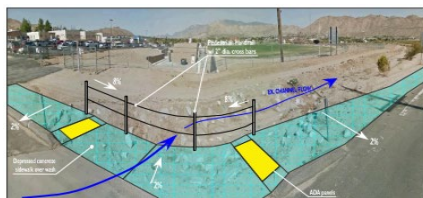
Safe Routes to School (SR2S) Project for the Town of Yucca Valley, County of San Bernardino & Caltrans District 8



PROJECT DESCRIPTION

Minagar & Associates, Inc. prepared a PS&E package for the Town of Yucca Valley and Caltrans District 8 for the Town's Safe Routes to School (SR2S) Project, which included traffic signal, streetscape, and signing & striping improvements for Yucca Valley High School on a 1/2± mile roadway segment on Sage Avenue, in the Town of Yucca Valley in Riverside County.

The project included design and preparation of construction plans (including preparation of plans, details and typical cross sections), development of construction cost estimates, technical specifications/provisions and investigation/documentation of findings for Caltrans environmental clearance (Categorical Exemption/Exclusion). Project features included roadway widening and aligning to construct new curb and gutter (traversable AC and PCC), 5' wide concrete sidewalks adjacent to the existing pavement, relocation of water meter boxes, signage and striping improvements, installation of a new marked crosswalk with pedestrian flashing beacon equipment, modification of the existing cross gutter to provide for a depressed pedestrian sidewalk and handrail system to traverse over the existing wash across Sage Avenue (including cutoff walls and riprap rock slope protection design per Caltrans RSP requirements).



LOCATION

- Yucca Valley, San Bernardino County, CA

SCOPE OF WORK

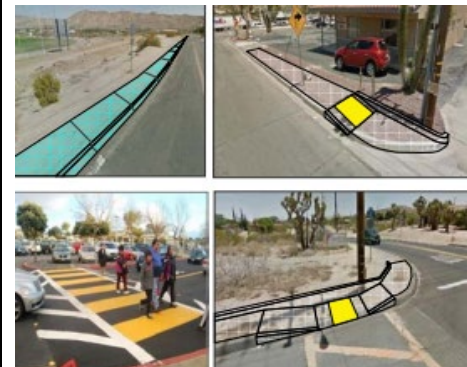
- **Civil Engineering**
 - PCC sidewalk
 - ADA curb ramps
- **Traffic Engineering**
 - Signing & Striping
 - Pavement Markers
- **Electrical Engineering**
 - Signalized Overhead Pedestrian Flashing Beacon
 - Solar-powered Radar Speed Feedback Signs
- **Caltrans Environmental Clearance**

CLIENT

- **Town of Yucca Valley, CA**
Alex Qishta, PE
Director of Public Works
58928 Business Center Drive
(760) 369-1265
aqisht@yucca-valley.org

CONTRACT & COMPLETION DATE

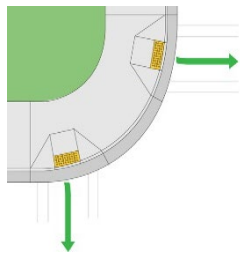
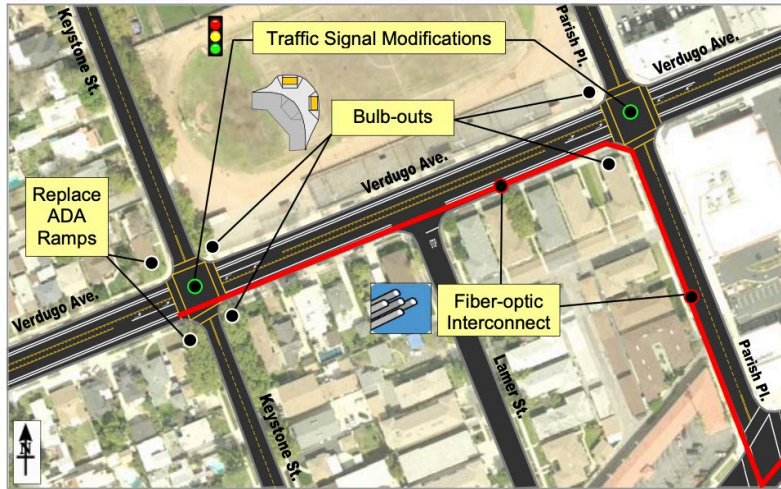
- **2018 - 2019**





2

Burbank's Highway Safety Improvement Project (HSIP-3) on Verdugo Avenue at Keystone Street and Parish Place



PROJECT DESCRIPTION

Minagar & Associates, Inc. prepared a full PS&E package for the City of Burbank to provide traffic signal modifications and pedestrian crossing improvements on Verdugo Avenue at the intersections of Keystone Street and Parish Place. Project features included:

Civil Improvements:

Reconstruction of four (4) intersection corners with "bulb-out" sidewalk extensions to provide:

- Double perpendicular ramps (replacing single ramps)
- Caltrans/ADA-conforming detectable warning surface panels
- Reduction in crossing distance of pedestrians across Verdugo

Traffic Signal/Fiber-Optic Interconnect Improvements:

- Installation of new signal poles, conduit, conductors, vehicle/bicycle DLC and five-section signal heads
- 233 Bi-Trans Full Version program with Battery Back-up System (BBS) within existing 332 traffic signal cabinet
- Installation of 3" HDPE conduit, 12-48 strand Single Mode Fiber-Optic (SMFO) Cable, & fiber-optic pull-boxes (2'x3')
- Removal of existing Type 337 controller cabinet and installation of new 170 controller

LOCATION

- Burbank, Los Angeles County, CA

SCOPE OF WORK

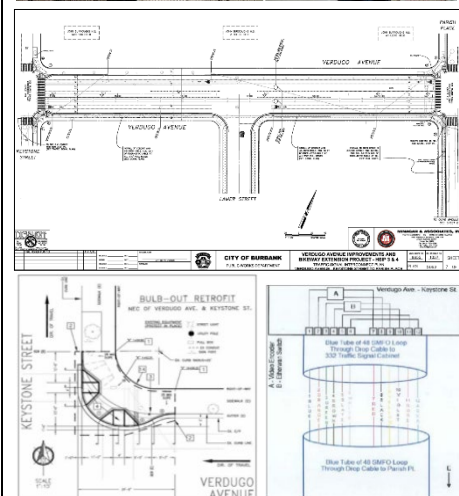
- Field Observations and Identification/Inventory of Existing Infrastructure
- Land/Control Survey
- Preparation of PS&E
- Construction Advertisement Services

CLIENT / AGENCY

- **City of Burbank, CA**
Rabie Rahmani
Principal Engineer (Currently Retired)
275 E Olive Ave
Burbank, CA 91502
(310) 927-0838
rabierahmani@ymail.com

CONTRACT & COMPLETION DATE

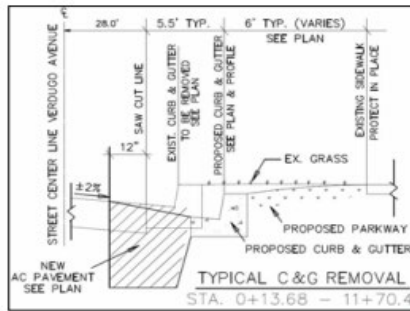
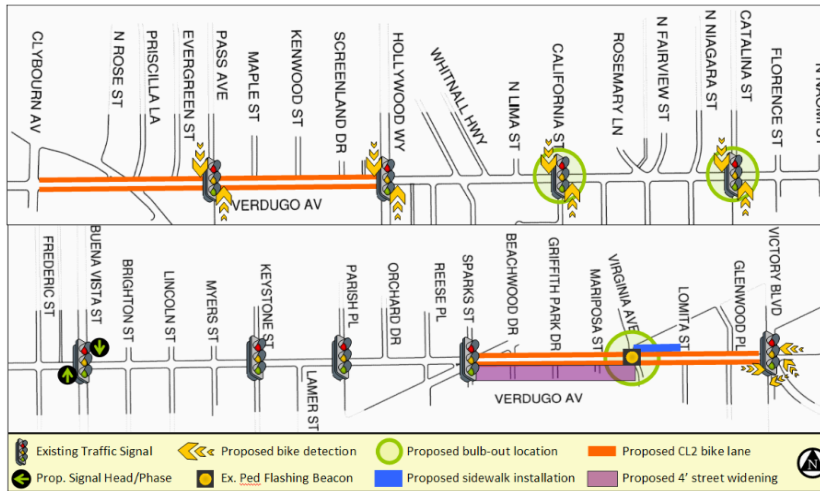
- **2018 - 2018**





3

Burbank's Bike Lane Extension Project on Verdugo Avenue from Clybourn Street to Victory Boulevard



LOCATION

- Burbank, Los Angeles County, CA

SCOPE OF WORK

- Field Observations and Identification/Inventory of Existing Infrastructure
- Land Survey
- Preparation of Plans, Specifications, & Estimates
- Construction Advertisement Services

CLIENT / AGENCY

- City of Burbank, CA
Rabie Rahmani
Principal Engineer (Currently Retired)
275 E Olive Ave
Burbank, CA 91502
(310) 927-0838
rabierahmani@ymail.com

CONTRACT & COMPLETION DATE

- 2019 – 2020

PROJECT DESCRIPTION

Minagar & Associates, Inc. prepared a full PS&E package for the City of Burbank to provide traffic signal modifications for bicycle video detection, and street widening roadway improvements for extended Class II bike lanes at various locations on Verdugo Avenue. Improvements included:

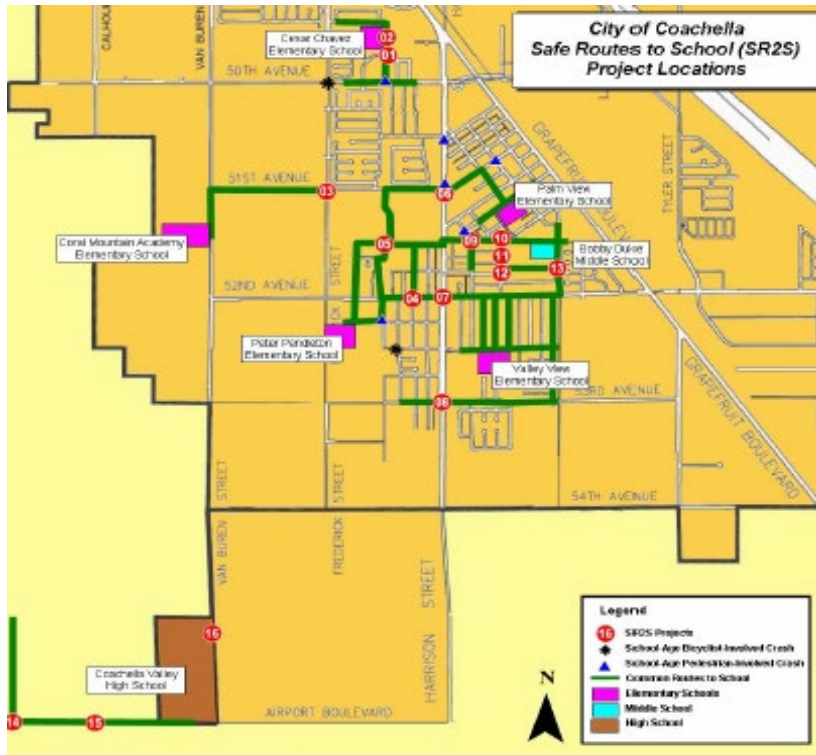
- Construction of bulb-out & crosswalk at existing pedestrian flashing yellow beacon
- Street widening on Verdugo Avenue from Olive Avenue to Virginia Avenue
 - Reconstruct P.C.C. curb & gutter 4' off existing south CF
 - Reconstruct sidewalk
 - Remove and install A.C. pavement with max depth of excavation at gutter of 10"
 - Replace parkway landscaping
- New sidewalk construction on the north side of Verdugo Avenue
 - Remove parkway landscaping and trees
 - Protect utility poles and boxes
- Signage and striping improvements (ladder-type crosswalk markings, bike/parking lanes, reconfiguration of travel lanes to accommodate the proposed CL2 bikeway)





4

Safe Routes to School (SR2S) Project for the City of Coachella, County of Riverside, and Caltrans District 8



LOCATION

➤ Coachella, Riverside County, CA

SCOPE OF WORK

- Preparation of PS&E
- Civil, Traffic, Electrical Engineering
- Environmental Services

CLIENT/AGENCY:

➤ **City of Coachella, CA**

Mark Chappell, PE

Project Manager

1515 6th Street

Coachella, CA 92236

Tel: (760) 398-5744

mc@chandigroupusa.com

➤ **Caltrans District 8**

Savat Khamphou

464 West 4th Street, 6th Floor
San Bernardino, CA 92401

Tel: (909) 383-8368 / (909) 383-4030

savat.khamphou@dot.ca.gov



PROJECT DESCRIPTION

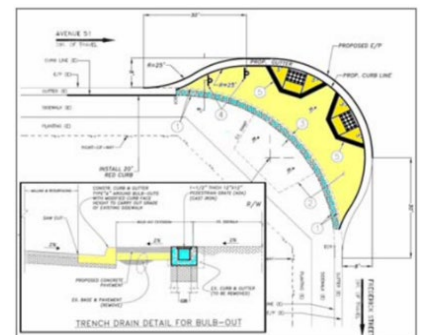
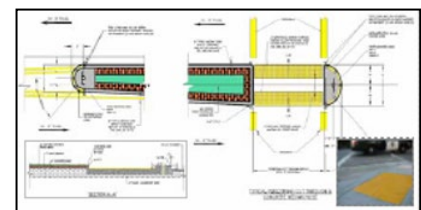
Minagar & Associates, Inc. prepared a complete PS&E package for the City of Coachella and Caltrans District 8 for the City's Safe Routes to School (SR2S) Cycle 8 Project for 7 elementary/middle/high schools in the City of Coachella and Riverside County at 16 signalized and unsignalized intersections. The project included design, preparation of construction cost estimates and provisions for technical specifications for a range of improvements such as:

Civil Improvements:

- ADA compliant curb ramps with high visibility truncated dome detectable warning surface
- 8 Bulb-out/Curb extensions
- 5 Pedestrian refuge island medians
- Sidewalks, driveways, curb & gutter

Electrical Improvements:

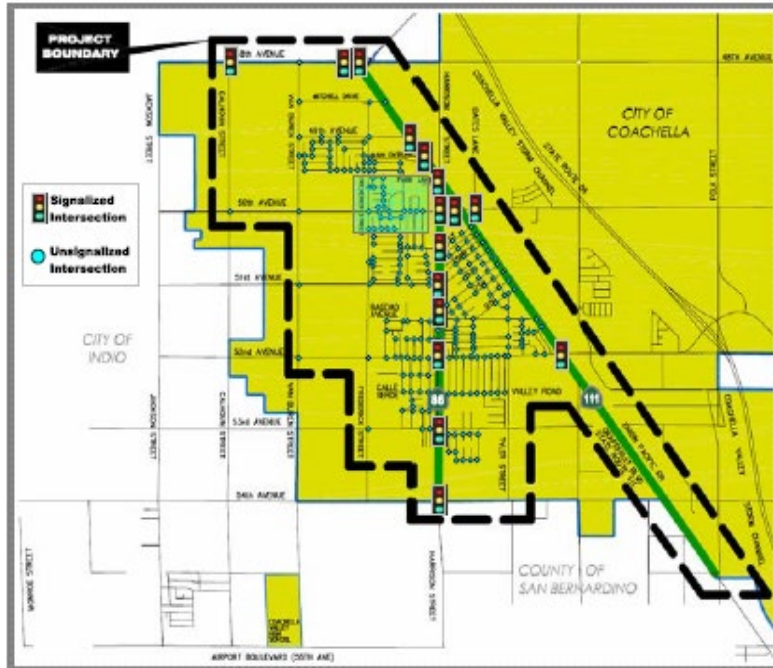
- Countdown pedestrian signal heads
- Audible/accessible pedestrian signals
- Rapid-Flash LED pedestrian Beacons
- PUFFIN pedestrian crossing signals





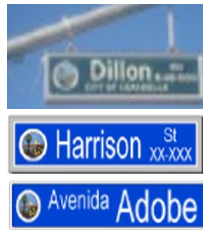
5

Safe Routes to School (SR2S) Project for the City of Coachella, County of Riverside, and Caltrans District 8



PROJECT DESCRIPTION

Minagar & Associates, Inc. prepared a complete PS&E package for the City of Coachella and Caltrans District 8 for the City's Highway Safety Improvement Program (HSIP) Cycle 2 Project. The project included 648 upgraded street name signs at approximately 160 unsignalized intersection, 24 6x8' overhead LED internally-illuminated Street Name Signs (IISNS) at 6 signalized intersections on SR-86, 224 regulatory, warning and guide signs on Harrison Street (SR-86) and Grapefruit Boulevard (SR-111), 13,933 LF of thermoplastic traffic striping, 757 raised pavement markers (RPMs), and 9,625 SF of thermoplastic pavement markings at 27 intersections.



The proposed upgrades were designed to conform with the most recent Manual on Uniform Traffic Control Devices in the State of California (CA MUTCD). The project included preparation of a Preliminary Environmental Study (PES) for Caltrans Review with NEPA/CEQA CE/CE environmental clearance documentation, signing and striping plans, construction cost estimates and quantities, and provision of technical specifications and construction engineering management & inspection services.



LOCATION

Coachella, Riverside County, CA

SCOPE OF WORK

- **Preparation of PS&E Documents**
 - 6 signalized intersections
 - 160 unsignalized intersections
- **Traffic Engineering (Signing and Striping)**
- **Environmental Services**
- **Bid Administration Services**

CLIENT

➤ **City of Coachella, CA**
Mark Chappell, PE
Project Manager
1515 6th Street
Coachella, CA 92236
(Now with Chandig Group)
mc@chandigroupusa.com
(760) 396-9260

CONTRACT & COMPLETION DATE

➤ **2018-2018**





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CITY OF NEEDLES, CA



A more comprehensive summary of Minagar's past project experience is shown in the following tables.



MINAGAR & ASSOCIATES, INC.

ITS - Traffic/Civil/Electrical Engineering - Transportation Planning - Homeland Security - CEM

MUNICIPAL ENGINEERING, TRAFFIC ENGINEERING, TMP, TCP, SIGNING & STRIPING PLANS and SPEED SURVEY PROJECTS

Project	Location	Municipal Engineering	Traffic Engineering	Traffic Management Plan (TMP)	Traffic Control Plan (TCP)	Signing & Striping Plan	Engineering & Traffic "Speed" Survey
♦ Traffic Control Plans for Castaic Lake Water Company's Main Station & Pipelines	Santa Clarita, CA				●		
♦ Stop Sign Installation Design for Olive/Phelan/Blecker	Baldwin Park, CA	●	●			●	
♦ 2004 Citywide Radar Speed Survey (Engineering & Traffic Survey) for 54 Locations	Baldwin Park, CA	●					●
♦ Warrant Assessment for the Installation of a New Traffic Signal at Willow Ave./Badillo St.	Baldwin Park, CA	●	●				
♦ Traffic Signal Installation Warrant Assessment for a Private Driveway at 47th St. E.	Palmdale, CA		●				
♦ Warrant Assessment for a Left-Turn at Ave. K & 32nd St. West for Fieldstone Communities	Lancaster, CA		●				
♦ Investigating Traffic Signal Operations Malfunctions for 2 Signals along Reche Canyon	Colton, CA	●	●				
♦ City of Irvine's FY 2004-2007 On-Call Consulting Services	Irvine, CA	●	●			●	
♦ Traffic Control Plans for the Sandhill 30" Raw Water Conveyance Pipeline	Rialto, CA				●		
♦ Signing & Striping and Traffic Control Plans for 1 New Signal & 2 Signal Modifications	San Clemente, CA		●		●	●	
♦ Traffic Signal Warrant Assessment for Stewart at Baldwin Park Blvd.	Baldwin Park, CA	●	●				
♦ Signing and Striping and Traffic Control Plans for Boeing's Douglas Park Development	Long Beach & Lakewood, CA				●	●	
♦ Signing & Striping Plans, Speed Humps & Speed Limit Assessment, Palmilla Gated Community	Laguna Niguel CA					●	●
♦ Traffic Control Device Design for City's Transfer Station & Signal Warrant Assessment for Puente at Cummings	Baldwin Park, CA	●	●			●	
♦ Signing & Striping Plans for 1,300' on Heacock Street	Moreno Valley, CA	●	●			●	
♦ Signing & Striping and Traffic Control Plans for VTT # 16595 at Lake View & Bastanchury	Yorba Linda, CA					●	
♦ Restriping Plan for the Traffic Signal Modification of Protected Left-turn Lane	Colton, CA	●	●			●	
♦ Traffic Control Plans for the Ultimate Street Improvements of Perris Valley 96" Pipeline	Riverside & Riverside County, CA				●		
♦ Interstate 10 FRWY & Baldwin Park Blvd. Queuing & Traffic Analysis	Baldwin Park, CA	●	●				
♦ Traffic Signal Timing Chart for Baldwin Park Blvd. & Foster	Baldwin Park, CA	●	●				
♦ Traffic Control Plans Preparations for Brea Canyon Road	Diamond Bar, CA			●	●		
♦ Stop Sign Installation Warrant Assessment	Rancho Santa Margarita, CA	●	●				
♦ Traffic Control Plans Preparations for Harbor Blvd. & Westminster Blvd.	Garden Grove, CA Santa Ana, CA			●	●		





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CITY OF NEEDLES, CA



MINAGAR & ASSOCIATES, INC.

ITS - Traffic/Civil/Electrical Engineering - Transportation Planning - Homeland Security - CEM

MUNICIPAL ENGINEERING, TRAFFIC ENGINEERING, TMP, TCP, SIGNING & STRIPING PLANS and SPEED SURVEY PROJECTS

Project	Location	Municipal Engineering	Traffic Engineering	Traffic Management Plan (TMP)	Traffic Control Plan (TCP)	Signing & Striping Plan	Engineering & Traffic "Speed" Survey
Truck Route Feasibility Study for Vulcan Materials Plant	Baldwin Park, CA	●	●				
Sight Distance Assessment for the Proposed Sign Installation at Hacienda Rd. & Whittier Blvd.	La Habra, CA		●				
Left-Turn Lane Feasibility Assessment for Garvey & Lee for a New Starbucks	South El Monte, CA		●				
Restriping Plans for a New AutoZone at Sunnymead Blvd. and Graham St.	Moreno Valley, CA		●			●	
Conducting 2 Stop Signs Installation Assessment at Olive/Center & Center/Benbow	Baldwin Park, CA	●	●				
Traffic Signal/Stop Sign/Flashing Beacon Warrant Assessment for Maine/Ohio	Baldwin Park, CA	●	●				
U-Turn Feasibility Assessments for 2 Locations along Valley Blvd. at Rancho & 3rd	Colton, CA	●	●				
Crystal Cove/Newport Coast's Stop Sign Assessment for Reef Point Dr. at Canyon Club Dr.	Newport Coast, CA		●				
Signing & Striping Plans for 18,000 LF of Roadways for 500 New Pulte Homes	Riverside County, CA					●	
Ave. L & 10th St. W. Signing & Striping and Traffic Control Plans	Lancaster, CA				●	●	
Traffic Control Plans for Newport Coast Community Center at Newport Coast Drive	Newport Beach, CA				●		
Perris Valley 48" Water Pipeline Traffic Control Plans along 13,000' of Cactus Ave. for MWD & EMWD	Moreno Valley, CA		●		●		
Traffic Signal Warrant Assessment for Olive St. & Landis Ave.	Baldwin Park, CA	●	●				
Traffic Design Investigation for Barton/La Cadena	Colton, CA	●	●				
Signing & Striping Plans for 1,400 LF of Lake Forest Dr. Extension	Irvine, CA					●	
Signing & Striping Plans for 1,400 LF along State Highway 111 for Desert Cities Industrial Park	Riverside County, CA					●	
Traffic Control Plans for MWD's 96" Perris Valley Pipe Line between I-215 & Mission Grove	Riverside & Riverside County, CA				●		
Citywide Speed Survey II	Rancho Santa Margarita, CA	●					●
Via Regresso & Via Arribo Traffic Evaluation	Rancho Santa Margarita, CA	●	●				
City of Rancho Santa Margarita Speed Limit Sign Inventory	Rancho Santa Margarita, CA	●				●	●
Engineering & Traffic Survey for Los Flores	Rancho Santa Margarita, CA	●					●
Crosswalk Assessment at the City of Rancho Santa Margarita Beach Club	Rancho Santa Margarita, CA	●	●				
Traffic Control Plans for Irvine Water Ranch District's Dyer Road Facility	Santa Ana, CA				●		
Redondo Beach's Engineering & Traffic Survey for 12 Corridors	Redondo Beach, CA	●					●





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CITY OF NEEDLES, CA**



30 Years of Excellence

MINAGAR & ASSOCIATES, INC.

ITS - Traffic/Civil/Electrical Engineering - Transportation Planning - Homeland Security - CEM

MUNICIPAL ENGINEERING, TRAFFIC ENGINEERING, TMP, TCP, SIGNING & STRIPING PLANS and SPEED SURVEY PROJECTS

Project	Location	Municipal Engineering	Traffic Engineering	Traffic Management Plan (TMP)	Traffic Control Plan (TCP)	Signing & Striping Plan	Engineering & Traffic "Speed" Survey
• Design of an All-Way Stop Sign, Median and Pavement Striping & Signage for Olive/Landis	Baldwin Park, CA	●				●	
• Traffic Study for Press-Telegram's Magnolia Ave./ 6th St.	Long Beach, CA		●				
• Internal Signing & Striping Plans for Irvine Company's Planning Area-18 North Development	Irvine, CA					●	
• Signing & Striping Plans for Irvine Company's Planning Area 18 South Development	Irvine, CA					●	
• Traffic Control Plans for Cactus Ave. 48" Feeder Pipeline under I-215 Interchange	Moreno Valley, CA				●		
• Hawaii's Queen Kaahumanu Highway (19) & Kohala Way's Guard Rail Assessment	North Kona, HI		●				
• Traffic Control Plans for WMWD's Meridian Sewer Pipes along Alessandro Rd. & Sycamore Canyon Blvd.	Riverside & Riverside Cty., CA				●		
• Traffic Control Plans for Sandhill Water Treatment Plant for the Proposed 8" Sewer Lines	Rialto, CA				●		
• Traffic Control Plans for WMWD's Riverside-Corona Feeder 54" Water Pipeline on Van Buren Blvd.	Riverside, CA				●		
• Consulting Traffic Engineering for Avenue R & 5th Street East Intersection Improvement	Palmdale, CA	●	●				
• Traffic Control Plans for Vintage Shores Sr. Apartments on Camino De Estrella	San Clemente, CA	●			●		
• Traffic Control Plans for Neilson Way for Water & Sewer Lines Repair	Santa Monica, CA				●		
• Traffic Control Plans for Huntington Beach's Central Park & Sports Complex	Huntington Beach, CA				●		
• Traffic Signal & Stop Sign Warrant Assessment for 11 Locations	Baldwin Park, CA	●	●				
• Engineering & Traffic Survey Including 9 Radars for 3 Corridors	Redondo Beach, CA	●					●
• Preparing Signing & Striping Plans for Alta Vista & Copper Hill	Los Angeles County, CA					●	
• Governor's Island Ferry Stacking for the U.S. Coast Guard	Manhattan, NY		●		●	●	
• Interstate 80/River Drive Interchange Preliminary Engineering	Northern NJ		●				
• Cross Westchester Expressway (I-287) From Route 120 to I-95	Westchester County, NY		●				
• Traffic Evaluation of the Causeway-Earhart Interchange	New Orleans, LA		●				
• Capital Beltway (I-495) Springfield Interchange Traffic Improvements	Washington, DC		●				
• I-287/New York Thruway/Route 17 Interchange Design Improvements	New York & New Jersey		●				
• Broadway Final Design Traffic Evaluation for NYCDOT	New York, NY		●				
• Virginia Beach's Atlantic Avenue Traffic Study	Virginia Beach, VA		●				





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CITY OF NEEDLES, CA**



MINAGAR & ASSOCIATES, INC.

ITS - Traffic/Civil/Electrical Engineering - Transportation Planning - Homeland Security - CEM

30 Years of Excellence

MUNICIPAL ENGINEERING, TRAFFIC ENGINEERING, TMP, TCP, SIGNING & STRIPING PLANS and SPEED SURVEY PROJECTS

Project	Location	Municipal Engineering	Traffic Engineering	Traffic Management Plan (TMP)	Traffic Control Plan (TCP)	Signing & Striping Plan	Engineering & Traffic "Speed" Survey
• City Traffic Engineering/Municipal Engineering Services	Colton, CA	●	●				
• City Traffic Engineering/Municipal Engineering Services	Baldwin Park, CA	●	●				
• City Traffic Engineering/Municipal Engineering Services	Rancho Santa Margarita, CA	●	●				
• City Traffic Engineering/Municipal Engineering Services	Chino Hills, CA	●	●				
• On-Call Traffic Engineering Services	Palmdale, CA	●	●				
• Caltrans District 12's Interstate 5 & State Route 55 Flyover TMP & TCP	Santa Ana, CA			●	●		
• MTA's Evaluation of RSTI Projects for 7 Agencies	Los Angeles County, CA		●				
• Conducting Signal & Stop Sign Warrant Assessments for 16 Locations	Baldwin Park, CA	●	●			●	
• Assessment of Right-Turn-On-Red for Baldwin Park Blvd. & Dalewood Avenue	Baldwin Park, CA	●	●				
• Peyton Avenue Restriping & Resigning Plans Preparation	Chino Hills, CA	●				●	
• Ruben Ayala High School Internal Circulation Study	Chino Hills, CA	●	●				
• Traffic Control Plans for PCH Sewer Lines Repair & Permit Application for Caltrans D-7	Santa Monica, CA			●	●		
• Santa Monica Pier's Parking Striping Plans	Santa Monica, CA					●	
• Experian Corporation HQ Signal Warrants & Queue Studies- Anton Avenue	Costa Mesa, CA		●				
• City of Tustin's Main Street Water Facility- Traffic Control Plans	Tustin, CA				●		
• On-Call Traffic Engineering/Traffic Control Plans for Anaheim Water Department	Anaheim, CA				●		
• St. Nicholas Parish Traffic Signal Warrant Study	Laguna Woods, CA		●				
• Citywide Speed Survey for 5 Major Arterials- Phase I	Rancho Santa Margarita, CA	●					●
• Long Beach Freeway (710) NB Off-ramp at Imperial Highway Traffic Signal Warrant Assessment	Lynwood, CA		●				
• Traffic Signal Modification Assessment for 7th St. & La Cadena	Colton, CA	●	●				
• San Bernardino Freeway (I-10) WB Off-ramp at 9th St./ Valley Traffic Study	Colton, CA	●	●				
• McBean Parkway & Baywood Lane Signing & Striping Plan	Santa Clarita, CA					●	
• Corona Industrial Park Traffic Signal Warrant & Trip Generation Assessment	Corona, CA		●				





**PROPOSAL to Provide Services for
SCHOOLS & SENIORS' SIDEWALK PROJECT
CITY OF NEEDLES, CA**



MINAGAR & ASSOCIATES, INC.

30 Years of Excellence



◆ **Nationwide:**
• 4 Projects for the Federal Highway Administration



◆ **Central & Northern California:**

- 3 EIR/EIS/EA Projects
- 7 Traffic Impact Report/Analyses Projects
- 2 Parking Studies
- 2 TDM Projects
- 2 Transportation Planning Projects
- 7 Computer Simulation Projects
- 2 Computer Modeling Projects
- 550 Synchronized/Retimed Signals
- 16 Signal Timing and Optimization Projects
- 10 System Evaluation Projects
- 5 Construction Management/Inspection/Installation Projects
- 4 Teaching and Training Projects
- 6 "Before" & "After" Projects
- 11 ITS Projects
- 4 PS&E Projects

◆ **Southern California:**

- 11 EIR/EIS/EA Projects
- 88 Traffic Impact Report/Analyses Projects
- 43 Parking Studies
- 25 Transportation Planning Projects
- 23 System Evaluation Projects
- 18 Municipal Engineering Projects
- 41 Traffic Engineering Projects
- 4 Traffic Management Plan Projects
- 951 Synchronized/Retimed Signals
- 2 TDM Projects
- 17 Computer Modeling Projects
- 8 Rail Transit Projects
- 3 Seaport Projects
- 1 Airport Project
- 13 Toll Roads/Financial Studies Projects
- 34 Signal Timing Projects
- 21 Signal Optimization Projects
- 59 Signal Design Projects
- 31 Interconnect Design Projects
- 71 PS&E Projects
- 22 Traffic Signal Systems Design Projects
- 15 Computer Simulation Projects
- 28 Construction Management/Inspection/Installation Projects
- 110 Teaching and Training Projects
- 25 Traffic Control Plan Projects
- 23 Signing and Striping Plan Projects
- 25 Speed Survey Projects
- 43 "Before" & "After" Projects
- 28 ITS Projects

◆ **Washington:**

- 2 EIR/EIS/EA Projects
- 1 Traffic Impact Report/Analysis Project

◆ **Oregon:**

- 1 EIR/EIS/EA Project
- 1 Traffic Impact Report/Analysis Project

◆ **Idaho:**

- 1 EIR/EIS/EA Project
- 1 Traffic Impact Report/Analysis Project

◆ **Ohio:**

- 1 Signal Optimization Project

◆ **New York:**

- 3 EIR/EIS/EA Projects
- 4 Traffic Impact Reports/Analysis Projects
- 1 Toll Road/Financial Study Project
- 4 Traffic Engineering Projects
- 1 Traffic Control Plan Project
- 1 Signing and Striping Project
- 1 ITS Project

◆ **Massachusetts:**

- 1 Computer Modeling – Subway Transit Project

◆ **Connecticut:**

- 1 Signal Design Project
- 1 Interconnect Design Project

◆ **New Jersey:**

- 1 Traffic Impact Report/Analysis Project
- 1 Toll Road/Financial Study Project
- 1 Computer Modeling Project
- 1 PS&E Project
- 2 Traffic Engineering Projects
- 1 Port Project

◆ **Washington, D.C.:**

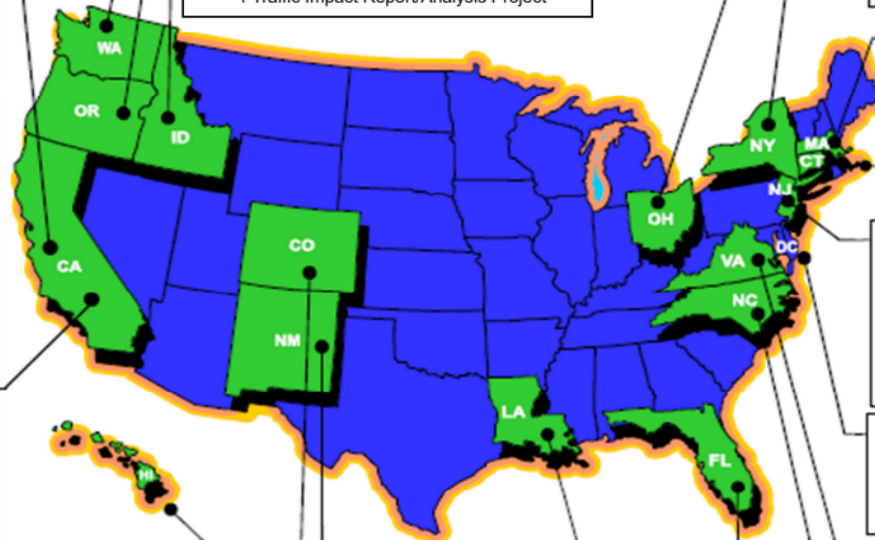
- 1 Signal Timing & Optimization Project
- 1 Signal Design Project
- 1 Traffic Engineering Project

◆ **Virginia:**

- 1 Traffic Engineering Project
- 1 Signal Timing & Optimization Project
- 1 Signal Design Project
- 1 PS&E Project
- 2 ITS Projects

◆ **North Carolina:**

- 2 Traffic Impact Reports/Analysis Project
- 1 Computer Modeling Project



◆ **Hawaii:**

- 1 Traffic/Civil Engineering Project

◆ **Colorado:**

- 1 Toll Road/Financial Study Project

◆ **Louisiana:**

- 1 Traffic Impact Report/Analysis Project
- 1 Toll Road/Financial Study Project
- 1 Traffic Engineering Project

◆ **New Mexico:**

- 1 Traffic Engineering Project

◆ **Florida:**

- 1 Parking Study



◆ **People's Republic of China:**
• 5 ITS/Traffic Training Projects



◆ **South Korea:**
• 1 ITS/Traffic Training Project



◆ **Kingdom of Saudi Arabia**
• 1 ITS/Traffic/Parking Project



MINAGAR & ASSOCIATES, INC.



Section 7 – Cost Proposal

The cost proposal has been submitted separately.



APPENDIX A

Key Personnel Resumes



MINAGAR & ASSOCIATES, INC.

ITS –Traffic/Civil/Electrical Engineering -Transportation Planning – Homeland Security - CEM Consultants

FRED MINAGAR, MS, RCE, PE

EDUCATION

- **Harvard University, John F. Kennedy School of Government**, Cambridge, Massachusetts, Leadership Decision Making, Executive Education Program Diploma
- **The George Washington University**, Washington, D.C., ITS Program Diploma
- **Pepperdine University School of Law**, Malibu, California, Negotiation Skills and Advocacy
- **St. John's University**, New York, New York, Management Diploma
- **New York University**, New York, New York, Management Practice
- **University of Cincinnati**, Cincinnati, Ohio, M.S. Transportation Engineering
- **Thesis and Research** work with computer analysis at Transportation Research Center of Ohio
- **University of Louisiana**, Lafayette, B.S.C.E. Civil Engineering

REGISTRATION

- NATIONAL:
 - **National Council of Examiners for Engineering & Surveying**, No. 9112
- STATE:
 - **California**: Registered Civil Engineering. No. C053466
 - **New Jersey**: Registered Professional Engineer. No. GE33090

EXPERIENCE

- **38 Years** of Professional Public & Private Consulting Experience
- Engineered, Managed & Administered Over 100 ITS and 800 Traffic/Civil/Electrical Engineering, Transportation Planning Projects in Over 17 States

EXPERTISE

- **Traffic Safety, LRSP, HSIP, ATP, SRTS, SR2S, E&TS (Federal & State)**
- **Intelligent Transportation System (ITS)**; ATMS, ATIS, System Communications
- **Traffic Engineering, Computer Modeling/Simulation, Signal & Interconnect Design**
- **Transportation Planning, EIR & EIS, TDM, TMP & TSM Special Studies**

AWARDS/HONORS

- Re-Elected to City Council as Mayor & City Council Member in Nov. 2018, Elected to City Council on Nov. 2014. Served as Mayor in 2017 & 2021. Has served as Planning & Traffic and Transportation Commissions Chairman/Commissioner, City of Laguna Niguel, California, 18 years
- Winner of the ASCE 2007 Outstanding Public/Private Civil Engineering/ITS Project of the Year for Metro & City of Santa Clarita
- Winner of the Best Traffic Congestion Mitigation Award in Los County for the City of Palmdale and Metro's Ave R Traffic Signal Interconnect & CCTV PS&E Project, 2005
- Recipient of the PTI's Best Transportation Technology Solutions for Synchronizing 121 Caltrans, County & City Traffic Signals Award in the U. S., 2003
- Awarded the United States Congressional Order of Merit, 2003 & 2006
- Recipient of the 2002 National Leadership Award
- Recipient of the CAATS' 2002 Award of Excellence for Best California Return on Investment Project
- Recipient of the Los Angeles County MTA's Teamwork Award for the Countywide Signal Systems Training Program, 2000
- Re-appointed to Traffic & Transportation Commissioner by the Mayor & Council of the City of Laguna Niguel, California for 1997-1999, 1999-2001, 2001-2003
- Publicity/Public Relations Chairman, 1st Annual Meeting of California Alliance for Advanced Transportation System (CAATS), Newport Beach, 1995
- Certificates of Appreciation, Western ITE Newsletter Technical Editor, 1990-1994
- Recipient of 1990 ITE International Award, Orlando, Florida, USA
- Recipient of 1989 ITE International Award, San Diego California, USA
- Recipient of 1988 ITE International Award, Vancouver, Canada
- Certificate of Appreciation, ITE Metropolitan Section of New York & New Jersey, 1987 and 1989
- Founded and Organized ITE Student Chapter at University of Cincinnati, 1984
- The Southwestern Award of Merit, 1981
- Outstanding Young Man of America for 1982

MINAGAR & ASSOCIATES, INC.

ITS –Traffic/Civil/Electrical Engineering -Transportation Planning – Homeland Security - CEM Consultants

FRED MINAGAR, MS, RCE, PE, FITE

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SYNOPSIS of PROFESSIONAL EXPERIENCE:

Traffic Safety/LRSP/HSIP/ATP/SRTS/Civil/Traffic Engineering & Transportation Planning

- City of Huntington Park's Citywide **LRSP (Local Roadway Safety Plan)**, Huntington Park, Los Angeles County, CA
- City of Guadalupe's Citywide **LRSP (Local Roadway Safety Plan)**, Guadalupe, Santa Barbara County, CA
- City of Needles' Citywide **LRSP (Local Roadway Safety Plan)**, Needles, San Bernardino County, CA
- City of Big Bear Lake's Citywide **LRSP (Local Roadway Safety Plan)**, Big Bear Lake, San Bernardino County, CA
- City of Colton's Citywide **LRSP (Local Roadway Safety Plan) Review**, Colton, San Bernardino County, CA
- City of Laguna Niguel's Citywide **LRSP (Local Roadway Safety Plan) Review**, LN, Orange County, CA
- City of Signal Hill's Citywide **LRSP (Local Roadway Safety Plan) Review**, Signal Hill, Los Angeles County, CA
- City of Lemoore's Citywide **LRSP (Local Roadway Safety Plan) Review**, Lemoore, Kings County, CA
- City of La Puente's Citywide **Street Name Sign, Traffic Control Devices Inventory & LSRP**, La Puente, CA
- City of South Gate's Citywide Parking Space Asset Inventory and Study, South Gate, CA
- City of Burbank's **HSIP Cycle 3** Engineering Services for Verdugo & Keystone, Burbank, CA
- City of Burbank's **HSIP Cycle 4** Engineering Services for Verdugo Bike Lane Extension, Burbank, CA
- City of Coachella's **HSIP-5294** (006) Engineering Services for **Citywide Traffic Control & Street Name Sign Upgrade**, Coachella, CA
- City of Coachella's **ATP Cycle 1** ST-86 PS&E & Engineering Services for Citywide Active Transportation Plan
- City of Coachella's **ATP Cycle 2** ST-100 PS&E & Engineering Services for Citywide Active Transportation Plan
- City of Coachella's **SR2S Cycle 8** PS&E Engineering Services for Citywide Safe Route To School Improvement
- Los Angeles County MTA's Interstate 210 Freeway Truck Origin-Destination Study, LA, CA
- Los Angeles County MTA's Evaluation of the Santa Monica Freeway/Smart Corridor, L.A., CA
- Los Angeles County MTA's Evaluation of RSTI Projects, Evaluated 10 Major Projects, Los Angeles County, CA
- Los Angeles County MTA's State Routes 57 & 60 Interchange Improvements Feasibility Traffic Study
- Los Angeles County MTA's Countywide Traffic Signal Operation and Maintenance Training Workshops
- Identification of Funding, STIP & CIP Programs for Metrolink Commuter Rail System, Southern CA
- Metrolink's Traffic Engineering Analysis of the New Maintenance Facility Design Requirements for a New Access Road for SCRRA, Los Angeles, CA
- Metrolink's Traffic Engineering and Cost Estimating for local Street Improvement near San Bernardino and Upland Train Stations for SCRRA, Southern CA
- Metrolink Commuter Rail System's Traffic Engineering Design & Study Reports for Chatsworth Train Station and Lassen Grade Crossing for SCRRA, Southern CA
- Los Angeles World Airport-Palmdale Airport Master Plan, Transportation Planning & Computer Modeling Utilizing TRANPLAN & EMME II Computer Models
- Massachusetts Bay Transit Authority's Red Line Subway Systems Computer Modeling, Boston, Beacon Hill and Cambridge, MA
- City of Palmdale's Traffic Impact Fee Assessment a Traffic Model Using TRANPLAN Model, Palmdale, CA
- Rte 24 Extension Traffic Study Utilizing UTPS Computer Model, Morristown, NJ
- North Carolina State University Campus Expansion Traffic Study, Raleigh, North Carolina
- Consultant to FHWA/NAHSC on AHS O&M Components & Institutional Constraints
- Consultant to FHWA/NAHSC on AHS Outreach Program, Conducting Focus Group Meeting in Boston, MA, Denver, CO & Washington, D.C.
- Southern California ITS Deployment Plan for Caltrans District 7, Los Angeles, California
- Caltrans TSM Grant Application Preparation for the City of Oceanside, California
- City of Sacramento's Arden/Arcade Local Area Transportation Study TSM & Traffic Op Studies, Sacramento, CA
- Governor's Island Ferry Stacking TSM Project - U.S. Coast Guard. Manhattan, New York City
- TMP Preparation Including Reg. XV Implementation for the U.S. Army Depot. Sacramento, CA
- Wal-Mart Traffic and Parking Impact Study, Santa Clarita, California
- 720 Paularino Parking Study, Variance, and CUP Application for the City of Costa Mesa, CA
- Rye Canyon Business Park, 3 million SF North South Campus Traffic Parking Impact Studies, Santa Clarita, CA
- Truck Route Feasibility Study for Vulcan Materials Plant in Irwindale for City of Baldwin Park, CA
- Los Angeles Grand Sports Arena Traffic Engineering Feasibility Study for a Private Developer, Downtown LA, CA
- Caltrans AB-680 Highway 118-126 Toll Road, Los Angeles and Ventura Counties, CA
- Denver W-470 Toll Revenue Study for Engineer 470 Partnership, Denver, Colorado
- New Jersey Turnpike Widening Transportation & Toll Plaza Study for the NJ Turnpike Authority
- Port of San Diego B-Street Pier Alignment, Traffic Engrg Study for a New Cruise Ship Terminal, San Diego, CA

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FRED MINAGAR, MS, RCE, PE, FITE

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SYNOPSIS of PROFESSIONAL EXPERIENCE CONTINUED:

Intelligent Transportation System (ITS)

- Caltrans State Route 66 Adaptive Traffic Control Systems, CCTV & Fiber Optic PS&E
- Palmdale's Ave. R Traffic Signal Interconnect & CCTV Design for the City of Palmdale & Metro
- Upgrade of Calabasas Regional Transportation Operations Center & Las Virgenes Corridor Interconnect PS & E
- Santa Clarita's Intelligent Transportation Management Systems Project, Preparation of PS&E for 22 CCTV's, 3 CMS, TOC Design Modification & Fiber Optic Design
- Santa Clarita's Thoroughfare Signal Interconnect PS&E for 30 miles along 22 Corridors & Traffic Signal Synchronization of 93 City, LA County & Caltrans Locations
- Los Angeles County MTA Trainer, Systems Communications, Video Surveillance & Video Detection, Bus Signal Priority, CtNet & QuicNet Systems & Signal Timing, Workshops, 1999-2005
- FHWA Trainer, Freeway Surveillance & Control Training Workshops
- Los Angeles County MTA's Santa Monica Freeway "Smart Corridor" Evaluation of ITS, Operational, Environmental & Energy Components for FHWA, Caltrans D7, Cities of LA, Beverly Hills, Culver City & Santa Monica
- City of Temecula ITS Deployment: TOC, Systems Communications & Fiber Optic Design for the City & Caltrans District 8
- City of Temecula Interconnect Design: Preparing PS & E Package
- City of Modesto's CCTV Expansion of 13 New Cameras for the City and Caltrans District 10
- Modesto CCTV & Ceres ATMS Design and Implementation Project, Northern California
- City of Ceres' CCTV Expansion of 3 New Camera the City and Caltrans District 10
- City of Modesto's 121 Traffic Signal Synchronization for the City and Caltrans District 10
- Consultant to FHWA/NAHSC on AHS Operational & Maintenance Components & Institutional Constraints
- Consultant to FHWA/NAHSC on AHS Outreach Program. Conducting Focus Group Meeting in Boston, MA, Denver, CO & Washington, D.C.
- Southern California ITS Deployment Plan for Caltrans District 7. Los Angeles, California
- 20-Mile Extension of \$90 Million I-95 HOV/TSM, Washington, D.C.
- Santa Monica Freeway (Interstate 10) ITS/CCTV and Fiber Optic Network for Caltrans District 7. Los Angeles, California
- Los Angeles County MTA's Evaluation of Regional Surface Transportation Improvement Projects for 8 Agencies
- Interstate 5 & 405 Confluence "El Toro Y" TSM & Construction Engineering Management, Caltrans District 12. Orange County, California
- Caltrans TSM Grant Application Preparation for the City of Oceanside, California
- City of Sacramento's Arden/Arcade Local Area Transportation Study TSM & Traffic Operations Studies. Sacramento, California
- Governor's Island Ferry Stacking TSM Project for the U.S. Coast Guard. Manhattan, New York City
- Traffic Signal Computerization. Design Implementation, Installation, Fine Tuning & Training City's Staff for 98 Intersection. City of Modesto, Northern California
- Traffic Signal Computerization. Design Implementation, Installation for 17 Intersections. City of Ceres, Northern California
- Traffic Signal Computerization. Design Implementation, Installation, Fine Tuning & Training City's Staff for 16 Intersections. City of Baldwin Park, California
- ITS, Traffic Signal Computerization & Support On-call Services. City of Palmdale, California
- TMP Preparation Including Reg.XV Implementation for the U.S. Army Depot. Sacramento, California
- Dulles International Airport Access Road. Ramp Metering Feasibility to E.B. I-66, Northern Virginia
- City of Temecula's Red Light Camera System Evaluation
- City of Santa Clarita's Red Light Camera System Proposal Evaluation

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SYNOPSIS of PROFESSIONAL EXPERIENCE CONTINUED:

Traffic Signal Design/Timing/Coordination/Synchronization

- Los Angeles County MTA's Countywide Traffic Signal Operation and Maintenance Training Workshops
- Los Angeles County MTA's Countywide Traffic Signal Timing Training Workshops
- Los Angeles County MTA's Countywide Video Detection and Surveillance Training Workshops
- Los Angeles County MTA's Countywide Type 170 Controller Training Workshops
- Los Angeles County MTA's Countywide Systems (Data, Video, and Audio) Communications Training Workshops
- Los Angeles County MTA's Countywide Bus Signal Priority, CtNet & QuicNet Systems Training
- The Governor's Go California Project of Adaptive Traffic Signal Control Systems PS & E for SR 66 for Caltrans District 7
- Synchronization of 144 Caltrans & City of Modesto Traffic Signals, Modesto, CA
- Synchronizing 72 Downtown Traffic Signals for Caltrans District 10, Stanislaus County & the City of Modesto
- Traffic Signal Synchronization, Implementation, and Fine Tuning of 121 Signals for the City of Modesto and Caltrans D-10
- Santa Clarita's Traffic Signal Synchronization for 38 Locations along 3 major Regional Arterials
- City of Modesto Traffic Signal Coordination. Retiming and Upgrade for 98 Locations, City of Modesto, CA
- City of Chino Hills Traffic Signal Plan Check Services
- City of Palmdale Traffic Signal Coordination. Retiming and Fine-tuning for 22 Locations, City of Palmdale, Southern California
- City of Ceres Traffic Signal Coordination & Retiming for 17 Locations, Ceres, Northern California
- Newport Boulevard Traffic Signal System Improvement for the City of Costa Mesa, CA
- Plan Preparation and Design Utilizing Caltrans Standards and AutoCAD for the City of Lancaster, CA
- Burke Lake Road's Signal. Northern Virginia/Washington, D.C.
- Interstate I-95 Service Roads and Local Intersections in Northern Virginia/Wash., D.C.
- U.S. Route 27 Traffic Signal Progression, Cincinnati, Ohio
- U.S. Route 7 Relocation Study. Signal Design & Capacity Analysis for Connecticut Department of Transportation, Norwalk, Connecticut
- Packard/Bambergers Development Traffic Signals Cost Estimating, Hackensack, New Jersey
- Virginia Beach's Traffic Signal Cost Estimating, Virginia Beach, Virginia
- Traffic Signal Retiming, Installation and Fine Tuning for the City of Baldwin Park and LA County
- Pacific Coast Highway and El Camino Real's Traffic Signal for the City of San Clemente
- Traffic Signal Inspection & Construction Engineering Management for the City of Baldwin Park
- Los Angeles County MTA's Evaluation of RSTI Projects
- On-Call Traffic Signal Timing and Design Services for the City of Palmdale
- On-Call Traffic Signal Construction Inspection Services for the City of Colton
- Preparing PS&E Package for New Signals for the City of San Bernardino
- Preparing PS&E for Signal Design Packages for the City of Baldwin Park
- Preparing PS&E Packages for Signals in Colton
- Consulting Design and PS&E Services for Railroad Pre-emption at Sierra Highway and Avenue P&R for Metrolink and the City of Palmdale
- Baldwin Park's Master Interconnect Design and PS&E for the City
- State Route 14 and Avenue S Signal and Striping PS&E Preparation for the City of Palmdale, Los Angeles County, and Caltrans D-7
- Design services for the Interconnect Modification of Avenue R and 5th Street East for the City of Palmdale
- Construction Engineering Management for State Route 14 and Avenue S for the City of Palmdale and Caltrans D-7
- Los Angeles County MTA's Evaluation of the SMART/Santa Monica Freeway ITS Systems

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SYNOPSIS OF PROFESSIONAL EXPERIENCE CONTINUED:

Toll Roads/Financial Studies

- Caltrans AB-680 Highway 118-126 Toll Road, Los Angeles and Ventura Counties, CA
- Denver W-470 Toll Revenue Study for Engineer 470 Partnership, Denver, Colorado
- New Jersey Turnpike Widening Transportation and Toll Plaza Study for the New Jersey Turnpike Authority
- Identification of Funding, STIP and CIP Programs for Metrolink Commuter Rail System, Southern California

Traffic and Parking Impact Studies

- City of San Clemente Traffic Control Plans (TCP) for the Vintage Shores Senior Apartments on Camino De Estrella, San Clemente, California
- City of San Clemente's Traffic Signal Plans, Specifications, and Estimates (PS&E) for El Camino Real and Pacific Coast Highway, San Clemente, California
- City of San Clemente/Kaufman and Broad Coastal, Villa Pacifica's Tract 15870 Traffic Signal Plans, Specifications, and Estimates (PS&E), San Clemente, California
- Honali Plaza Parking Study, Laguna Hills, California
- Wal-Mart Traffic and Parking Impact Study, Santa Clarita, California
- 720 Paularino Parking Study, Variance, and CUP Application for the City of Costa Mesa, California
- Dodge Dealership Traffic and Parking Study, Lompoc, California
- Washington Mutual Bank's Parking Study and Variance Application for the City of Laguna Hills, California
- Rye Canyon Business Park, 3 million SF North and South Campus Traffic and Parking Impact Studies, Santa Clarita, CA
- Truck Route Feasibility Study for Vulcan Materials Plant in Irwindale for the City of Baldwin Park, California
- City of Huntington Beach Traffic Control Plans (TCP) preparation for the Huntington Beach Central Park Sports Complex, Huntington Beach, California
- State Route 55 Fly-over I-5 Freeway Traffic Control Plans and Traffic Management Plan for Caltrans District 12, Santa Ana, California
- Los Angeles Grand Sports Arena Traffic Engineering Feasibility Study for a Private Developer near Downtown Los Angeles, California
- Calabasas Volvo Dealership Traffic Impact Study, Calabasas, CA
- The Gallery Traffic Impact Report, San Clemente, CA
- Lockheed Martin Traffic Impact Analysis, Palmdale, CA
- Palmdale Airport Plaza Traffic Impact Report, Palmdale, CA
- Quartz Hill Traffic & Fee Impact Studies, Palmdale, CA
- North San Diego County Future Urbanizing Area Traffic Study, San Diego, CA
- Village Shopping Center Traffic Impact Report, San Clemente, CA
- Lockheed Martin Aircraft Facility Plant Traffic Study, Palmdale, CA
- Serra Catholic School Traffic Impact Report Review, Rancho Santa Margarita, CA
- GFW's Five Power Plants Traffic Impacts in the Bay Area Air Quality Management District, Contra Costa County, CA
- Port Liberte (Caven Point) Traffic Impact Study, New York Harbor, NY
- Packhard/Bambergers Traffic Impact, Cost Estimating & Alternatives Studies, Hackensack, NY
- California Exposition Center Expansion Draft EIR & Traffic Impact Study, Sacramento, CA
- Arden-Fair Mall Expansion: Fourth Anchor Tenant Traffic Impact & EIR, Sacramento, CA

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SYNOPSIS OF PROFESSIONAL EXPERIENCE CONTINUED:

Port Projects

- Port of San Diego B-Street Pier Alignment, Traffic Engineering Study for a New Cruise Ship Terminal, San Diego, California
- Port of Long Beach's SCAQMD's Grant for Air Quality/Emission Control Improvements at Port's Roadways/Highways, Long Beach, California
- Port Liberte (Caven Point) Traffic Impact Study, Jersey City, New Jersey

Rail Transit

- Metrolink Commuter Rail System's Traffic Engineering Design & Study Reports for Chatsworth Train Station and Lassen Grade Crossing for southern California Regional Rail Authority (SCRRA), Southern California
- Metrolink's Traffic Engineering Analysis Report and Preliminary Conceptual Design on North Main Street Grade separation over Los Angeles River near Downtown Los Angeles for SCRRA, Southern California
- Metrolink's Traffic Engineering Analysis of the New Maintenance Facility Design Requirements for a New Access Road for SCRRA, Los Angeles, California
- Metrolink's Traffic Engineering and Cost Estimating for local Street Improvement near San Bernardino and Upland Train Stations for SCRRA, California

TECHNICAL TRAINING

- Revisions to the Air Quality Management Plan (AQMP) Workshop by South Coast Air Quality Management District (SCAQMD), Newport Beach, California
- Intelligent Vehicle Highway System (IVHS) Training by ITE, Monterey California
- South Coast Air Quality Management District (SCAQMD) TDM/ETC Training and Certification, Santa Ana, California
- Business Development, Marketing and Proposal Preparation Training by Raytheon (Formerly EBASCO)
- Management and Presentation Seminars by URS Consultant
- MinUTP Computer Training by Comsis Corporation and HNTB
- Highway Capacity Training by Polytechnic University of New York

PUBLICATIONS

- Minagar, F. & Baker, D. "IVHS Applications in the United States" Presentation & Technical Paper at the International Conference on Application of New Technology on Transport Systems. Sponsored by Australian Road Research Board Ltd., Melbourne, Australia.
- Minagar, F. "Are LOS and V/C Different at Similar Signalized Intersection in the U.S.?" Presented at the 45th ITE District Six Annual Meeting, Anchorage, Alaska.
- Minagar, F. and Presleigh, J. "Higher Than Standard Trip Generation Volumes at a Regional Shopping Center in Sacramento, California." Presented at the 45th ITE District Six Annual Meeting. Anchorage, Alaska.
- Technical Editor, Western ITE (the Official Publication of ITE District Six)
- Editor & Publisher, Newsletter of ITE Metropolitan Section of New York & New Jersey
- Minagar, F. "Automobile Fuel Consumption in Suburban Signalized Routes." A Thesis Presented to the College of Engineering at the University of Cincinnati.

MINAGAR & ASSOCIATES, INC.

Civil Engineering-Traffic Engineering-Transportation Planning Consultants

FIROZ VOHRA, MS, TE

EDUCATION

- **University of Cincinnati**, Cincinnati, Ohio, MSCR in Transportation Engineering
- **Maharaja Sayajirao University of Baroda**, Baroda, India, BSCE in Highway Engineering

PROFESSIONAL CAPABILITIES/SUMMARY

Firoz Vohra is an experienced traffic engineer with over 34 years of experience. He began his career in the private sector where responsibilities included planning and designing highway alignments, developing traffic demand projections and preparing and analyzing traffic studies. He then moved to the public sector as a City Traffic Engineer for the City of Modesto where he served in that position for 15 years and then served the City as Deputy Director of Public Works for 7 years. The experience and knowledge gained throughout my career presents an invaluable asset to my clients. He is a proven team player with a focus on utilizing his public-service experience to achieve the goals of the clients he serves.

PROFESSIONAL EXPERIENCE

Senior Traffic Engineer for Minagar & Associates, Inc.
Jul 2018 – Present

Senior Engineer for the Public Works Transportation Division of Stockton, CA
2010 – 2018

Responsibilities include administering & managing the recently combined Transportation Engineering Division within the Public Works Department. The purpose is to bring Transportation projects to the County by leveraging Federal & State grant funds with Local transportation dollars; improve traffic flow, enhance safety & reduce congestion by prioritizing projects based on roadway capacity & safety.

Manager III for the Public Works Engineering Support Division of Modesto, CA
2009 – 2010

Responsible for the Development Services, Community Service Districts, Landscape and Lighting Districts, Encroachment and Transportation Permits, County Surveys, Mapping Services and Traffic Engineering Units. Responsibilities include managing and implementing the workload, people and resources of these units. Provide supervision, attend public meetings, develop projects and perform traffic analysis. Duties also include development and maintenance of Development Design Standards and Master Plan Standards. Produce and process annual engineer reports for Community Service Districts, Landscaping and Lighting Districts. Act as County Project Manager on major projects.

Deputy Director for the Public Works Department of Modesto, CA
2002 – 2009

Headed the Streets and Traffic Services Division of the Public Works Department. Reported to Department Director and City Manager. Assumed Acting Director of Public Works role during the Director's absence. Supervised Streets Engineering, Traffic Engineering/Operation and Street Maintenance staff (52 FTEs). Permanent substitute for the City Manager at the StanCOG Technical Advisory Committee. Regularly briefed the Mayor and Council Members on policy issues prior to all StanCOG policy board meetings and offered recommendations. Chaired the City of Modesto's Fees Task Force committee. Developed and monitored division budgets (Operating & CIP) and workflow. Secured CMAQ, STP, SR2S grants for capital projects. Developed the ARRA-2009 (Stimulus Package) projects proposal. Developed county-wide

MINAGAR & ASSOCIATES, INC.

Civil Engineering-Traffic Engineering-Transportation Planning Consultants

FIROZ VOHRA, TE

PROFESSIONAL EXPERIENCE CONTINUED:

Pavement Management System and roadway repair priorities. Developed the SR 99/Pelandale Interchange project concept and led it to PA&ED state through CalTrans District 10. Served on the regional North County Corridor (25 miles long new expressway) project as the Technical Advisory Committee member to the Joint Powers Authority.

City Traffic Engineer for the City of Modesto, CA

1987 – 2002

Reported to Department Director and Deputy Director. Supervised the research, analysis and planning of development projects and other transportation studies which ensure safe and efficient traffic flow and mobility while enabling economic development. Have conducted and overseen research and analysis on development projects; planned and organized transportation planning studies; neighborhood traffic planning and analysis; traffic impact reports for development projects; plans, and environmental review. Developed strategies to build –livable communities by creating new streetscapes that provide maximum safety for pedestrians, bicycles and motorists, while keeping travel speeds low and providing optimum access. Developed traffic management strategies and systems to manage the growing traffic demands by employing state-of-the-art technologies. Prepared and presented a variety of reports; developed division's operating as well as capital improvement budgets.

MINAGAR & ASSOCIATES, INC.

ITS –Traffic/Civil/Electrical Engineering -Transportation Planning – CEM Consultants SERGE S. TAVOUR

EDUCATION

- **Tehran Institute of Technology**, Civil Engineering

PROFESSIONAL EXPERIENCE

- **36 years** of Engineering Land Surveying and Pure Civil Engineering Design

LRSP/TRAFFIC SAFETY EXPERIENCE

- Engineering Assistant for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Guadalupe, Santa Barbara County, CA
- Engineering Assistant for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Huntington Park, Los Angeles County, CA
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Needles, San Bernardino County, CA

LAND SURVEYING EXPERIENCE:

Key projects:

- Surveying work - Topographic surveys, boundary surveys and staking.
- Survey and Street Design – HSIP Federal Project for Verdugo Street, Burbank, CA.
- Survey and Street Design – HSIP State Project for Verdugo Street Bike Lane Extension, Burbank, CA.
- Designed Base project survey for Caltrans - Route 66
- Traffic control plans – Modesto, CA.
- Prepared plans for numerous traffic signal and traffic control applications, signing and striping
- Created plans and profile and design modify curb returns

CIVIL DESIGNER EXPERIENCE:

Key projects:

- Traffic Control Plan – La Habra, Irvine, Laguna Niguel, Brea, Costa Mesa, CA
- Street Improvement Plan – Costa Mesa, CA
- Water Line – La Habra, CA
- Retaining wall- Moulton Parkway
- Utility plans- Caltrans I-5 widening project

Project Designer

Key projects:

- Andalusia Apartment Complex – Mission Viejo, CA
- Sun City Shopping Center – Sun City, CA
- Dos Lagos Golf Course – Corona, CA
- Madison Single Family Housing – Irvine, CA
- Whispering Heights Single Family Housing – Riverside, CA
- Westborne single family housing – Irvine, CA

Project Designer

Key projects:

- Granada Hills Townhouses – Granada Hills, CA
- Housing Tract Project – Riverside, CA
- Townhouse Project - Bellflower, CA
- Talega Golf Course Driving Range – San Clemente, CA
- Royal Cabinets – Pomona, CA
- Commercial Warehouse – City of Industry, CA

TRAFFIC DESIGNER EXPERIENCE:

Project Designer

Key Projects:

- Traffic Signal Interconnect, Modification & Street Improvement plans
- ITS/System Communications Projects
- ATP/SRTS/HSIP/SS4A/LRSP Design Projects
- Railroad track improvement plans and profiles
- Land field grading plans
- Commercial, residential, and industrial precise & rough grading plans
- Street, sewer, and water improvement plans

Senior CADD Operator

- SCRRRA (Metrolink) Commuter Rail Project

MINAGAR & ASSOCIATES, INC.

ITS - Traffic/Civil/Electrical/Mechanical Engineering - Transportation Planning - Homeland Security - CEM

ARI ABRISHAMI, BSEE, PE, PMP

EDUCATION

- **San Diego State University**, San Diego, CA, BSEE, Computer Software Engineering/ Hardware Engineering (Alumni member of Beta Kappa Nu (Electrical) & Tau Beta Pi Engineering Honor Societies)
- **San Diego State University**, San Diego, CA, Core MS Courses in Telecommunications

REGISTRATION

- **California**, Registered Professional Electrical Engineer #14694
- **California**, Project Management Professional #492168
- **California**, Contractors License Electrical C-10 #721267
- **California**, Contractors General Engineering A #721267
- **California**, Contractors General Building B #721267
- **California**, Certified General Electrician #141726
- **OSHA 30**, For Construction Safety, Certified #32-00920905
- HAM Radio and GROL PGGB004108 FRN (#0010904068)

EXPERIENCE

- **40 Years** Professional Public & Private Consulting Experience
- Engineered, Managed and Administered over 150 State and Federal Projects including
 - California Department of Transportation (Caltrans) D-7, D-8, D-12 & HQ's Fiber Optic/Network/Router/Connectivity/ITS Upgrades
 - National Security Administration (NSA) in charge of the IT contract for Command and Control Center for the U.S. Courthouse's Security System, CCTV Cameras (internal & external)

EXPERTISE

- Electrical Engineering
- Computer & Software Engineering
- Preparing PS&E, Project Management & Control, Inspection
- ITS, ATMS, Fiber Optic, Systems Communications Landline & Wireless
- Hirsch/Identify systems hardware access control and intrusion systems training for security agency
- EV Charging Station Design, Planning & Procurement
- Solar System Design & Planning

SOFTWARE

- CISCO CCIE classes and lab (wide area network routers, switches)
- Courses in OSI (networking protocol)
- Microstation (State of CA design software)
- Primavera project management software
- Siemens Delta V software training for validation, commissioning & operation optimization
- Microsoft Office and project
- Changeable Message Sign software and programming
- Siemens Building Management Systems

PROFESSIONAL CAPABILITIES/SUMMARY

Has performed in variety of professional roles from project management to design with a deep knowledge of construction requirements. including Project Manager, Design Manager, Project Engineer of multiple Capital Improvement and Maintenance projects; performing professional electrical engineering tasks in preparation of designs, construction plans, specifications, engineering economic and cost analysis studies, project schedules, contracts and reports for electrical systems and equipment, commercial buildings, associated facilities and equipment; security systems, access control and camera systems; conducting quality assurance and safety and functional testing, inspection and research activities; providing technical direction and support in the licensing, design, construction, installation, maintenance, and operation and inspection of a wide variety of electrical systems and intelligent transportation systems

MINAGAR & ASSOCIATES, INC.

ITS - Traffic/Civil/Electrical/Mechanical Engineering - Transportation Planning - Homeland Security - CEM

ARI ABRISHAMI, BSEE, PE, PMP

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SYNOPSIS of PROFESSIONAL EXPERIENCE CONTINUED:

and access and camera control in Security equipment as well as to proven to be a trouble shooter and problem solver in integrated systems.

PROFESSIONAL EXPERIENCE

Project Management & Engineering *Minagar & Associates, Inc.*

Jan 2010 – Present

Performing design, construction and project management for local government projects regarding CCTV; traffic signal systems; intelligent wireless transportation systems (ITS); wide area network (WAN); fiber optics; CAT5e, CAT6 copper connectivity. Traffic management network revamping and cutovers due to upgrades, and associated security systems associated with the command and control centers and its connectivity with the county government and the State TMCs in order to fulfill the Homeland Security criteria set forth for sharing information amongst agencies.

State of California, Departments of Transportation and Industrial Relations

Jul 1984 – Jan 2010

▪ *Caltrans Senior Transportation Electrical Engineer (Supervisory), Traffic Operations*

Jul 1998 – Jun 2009

Supervised a staff of a dozen office and field engineers (traffic signal operations and design). He was responsible for electrical design and review, operations and inspection of numerous projects for North Los Angeles County and Ventura County; this included lighting systems, traffic signal systems, CCTV and HAR systems and electrical utilities.

▪ *Caltrans System Software Specialist, Information Systems*

Oct 1997 – Jul 1998

Responsible for IT infrastructure to connect 25,000 computers; duties included negotiating contracts with phone companies and DGS which saved more than \$1.2M annually; standardized all computers in the Caltrans system, which saved over \$1M annually, served as the Technical Advisor in Advanced Wireless Technologies & Advanced ITS Networks while coordinating and providing network troubleshooting remote assistance to IT personnel in the four Caltrans off-site locations.

▪ *Caltrans New Technology & Research Program*

Jul 1996 – Oct 1997

Project Manager/System's Designer for Intertie for four southern California sites; responsibilities included installation, operation, and maintenance network devices such as wide-area switches, routers, servers, modems, and network management and their communications software. As the Project Manager I was responsible for Fiber Optic intertie wired and wireless; over \$40M.

▪ *Caltrans Associate Electrical Engineer, Supervisor (Traffic Systems TMC Support)*

Jul 1989 – Jul 1996

Operated and maintained hardware and software for traffic operations center (TMC); reported wiring, specification review for scopes of work, and obtained MOU funding; served as Project Manager,

SYNOPSIS of PROFESSIONAL EXPERIENCE CONTINUED:

Technical Advisor, and Researcher for advanced technology projects (saved more than \$3M). He supervised a staff of ten office administration and engineers.

Caltrans Electrical Engineer Maintenance and Traffic Systems (TMC Support) / Coronado Bridge

Jul 1984 – Jul 1989

Designer and Field Inspector on a variety of transportation projects including highway lighting; ramp metering signals; traffic signals; and highway advisory radios high voltage conversion (5000 to 480) Volt AC for public safety; managed toll collection air monitoring system for toll collectors' safety and reported results to Head Quarters; ensured devices were calibrated and worked properly.

MINAGAR & ASSOCIATES, INC.

ITS - Traffic/Civil/Electrical Engineering - Transportation Planning - Homeland Security - CEM

DON TRAN, BSEE, P.E.

EDUCATION

- **California State University, Long Beach**, B.S. in Electrical Engineering
- **Long Beach City College**, A.A. in Business Management
- **Institute of Transportation, Berkeley**, Traffic Engineering & Systems Engineering Courses

TRAINING

- Applications of TRANSYT, PASSER, NETSIM, Synchro & SimTraffic 11.0 to the Coordination of Actuated Traffic Signals

REGISTRATION

- **California**, Registered Professional Traffic Engineer #2074

EXPERIENCE

- **35 Years** Professional Experience

EXPERTISE

- **Transportation Systems Engineering**
- **Traffic Management Systems**
- **Traffic Signal Design, Modification and Operations**
- **ITS: ATMS, DMS, VMS, CCTV, IEN, RIITS, NTCIP**
- **ATMS (Advanced Traffic Management System) & Central Control Systems:**
Econolite's CENTRACS (Server & Cloud), McCain's TRANSPARITY, Intelight's MAXVIEW, Trafficware's ATMS & Kimley-Horn (KITS)
- **Traffic Signal Controller Hardware:** 170 E, McCain 2070 L & LX, Econolite, Econolite Cobalt, Econolite ATC 2070 E, LX & LX+, Trafficware 2070 E, Antilight 2070 LX & LDX, Advanced Traffic Controllers (ATC): McCain Flex, and Trafficware Commander & NEMA TS1 & TS2 and ITS Cabinets, 332 & ATC Cabinets
- **Traffic Signal Controller/Timing Software for 170, 2070 & NEMA:** (State Caltrans C-8), LA County LACO-1R, LACO-3 & LACO- 4E), Programs 189, 200, 200CA, 200SA, 233, 233 RV2, McCain 2033 & Econolite's EOS, ASC/2 NEMA, ASC/3 NEMA & Adaptive and CAV (Connected & Automated Vehicle)
- **Detection Systems (Video, Radar & Loops):** Automatic Incident Detection Cubic's GRIDSMART, GRIDSMA RT, Iteris' Vantage, Miovision's SmartView, Econolite's Autoscope, Pelco's Video Xpert, BOSCH's Video Management System (BVMS), Sensys's Radar Flex, FLIR's Thermal Imaging FLIR & Traditional Inductive Loops
- **CCTV Systems:** BOSCH (Standard, PTZ & Starlight), Cohu (RISE), PELCO (PTZ & Multi-Sensor) & Econolite's Centracs CCTV
- **Signing & Striping Plans**
- **Traffic Control Plans Preparations per 2019 WATCH & 2016 CA-MUTCD Manuals**

RELATED SKILLS

- Ability to debug and develop traffic signal programs
- Use of various Traffic Engineering and Transportation Planning software: TRANSYT, PASSER, HCS, SYNCHRO, and AUTOCAD
- Ability to troubleshoot, operate, and evaluate the traffic signal controllers and cabinets in either State Type or NEMA

SYNOPSIS of PROFESSIONAL EXPERIENCE

- Project Engineer, City of Modesto: Prepared Synchronization Plans utilizing Synchro & Sim Traffic Computer Models for 121 Signalized Intersections in City of Modesto, and Caltrans D-10 for all the Interchanges of SR 99 at McHenry Blvd, Pelandale Ave, Standiford Ave, Briggsmore Ave, Kansas Ave./SR 132, Maze Blvd/L St.& Crows Landing Rd. Prepared 121 timing charts on BiTran 200SA for the City's 170 Controllers & C8 for the State's Controllers. Installed all the 121 new timing charts in each controller. Completed all the field troubleshooting and optimized based on the field

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- conditions. Performed Before & After Studies to document all the improvements. This project won the Best Transportation Technology Solution Awards in the United States.
- Project Engineer, City of Modesto: Prepared Synchronization Plans utilizing Synchro & Sim Traffic Computer Models. Prepared timing charts on BiTran 200SA & C8 for 141 signalized intersections.
 - Project Engineer for the City of Ceres' Traffic Signal Synchronization Utilizing Synchro & Sim Traffic Microcomputer Models. Prepared Timing Plans for 27 Traffic Signals for the City. Installed the new timing charts for all the 27 locations. Performed trouble shooting for all the locations and field adjusted the timings based on the prevailing conditions. Performed Before and After Studies to document the improvements.
 - Project Engineer for the 18 Traffic Signal Synchronization for the City of Colton.
 - Prepared over 100 Traffic Signal, Fiber Optic/Copper/CoAxial/Wireless Interconnect Plans for the Cities of Baldwin Park, Beaumont, Colton, Temple City, Arcadia, Calabasas, Santa Clarita, Gardena, Santa Monica, Los Angeles, Culver City, Temecula, Palmdale, Chino Hills, South Pasadena, Lancaster, Los Angeles County, Orange County, San Bernardino, Chino, Coachella, Redlands, El Monte, Irvine, Lake Forest, Burbank, Commerce, Yurupa Valley, Huntington Beach, Diamond Bar, Lawndale, Town of Yucca Valley, Ventura, Inglewood, Caltrans District 7, 8, 11 & HQ (Sacramento).
 - Senior & Project Engineer-Advanced Traffic Management System, City of Long Beach, CA: Participated in the development and implementation of the City's Advanced Traffic Management System which controls over 450 traffic signals. The system uses microwaves, direct wires, fiber-optics, radio and telephone lines to 38 outlying areas.
 - Project Engineer-Communication Network to Traffic Management Centers for Caltrans, Cities of Long Beach and Signal Hill, CA: Participated in the process of study, design and initial specification preparation on 91 Freeway traffic surveillance project as portion for California Department of Transportation, Cities of Long Beach and Signal Hill
 - City of Long Beach Signal Operations: Assisted in maintenance and operations of over 400 traffic signals. Project engineer for 12 signal timing optimization projects, using TRANSYT-7F and Passer II, which re-timed over 400 traffic signals. Handled the council and citizens requests for traffic signal timing related matters.
 - Light Rail Vehicle Operations between Los Angeles and Long Beach: Assisted in design, documentation, debugging, and implementation for Light Rail Vehicle software development to integrate Light Rail Vehicles into the local jurisdiction's signal system.
 - Traffic Signal Design: Responsible for the traffic signal design, plans, and specifications for the City's traffic signal modification or new signal installation.
 - Traffic Operations: Experience in all phases of traffic operation. Assignment included traffic control device installation in addition to signals, street lighting designs, and analysis of accident causes at the traffic signal intersections to prepare corrective action to solve the problems. Preparation and design of plans for striping, markings, and signing.
 - Prepared Traffic Signal Timing Plans for the City of Santa Monica's Pico Blvd Phase III for 12 Traffic Signals between 11th St. & 34th St. Pico Blvd. is a major critical east-west commuter route through the City of Santa Monica and west of Los Angeles.
 - Prepared Train Pre-emption & Timing Charts for Los Angeles Metro Gold Line's At-grade Crossing at Mission ST. & Meridian Ave utilizing Bi Trans 233 Rev 2 for the Metro Gold Line Foothill Construction Authority & Hill International.
 - Prepared 3 New Traffic Signal Plans for the City of Irvine and Irvine Company for the intersections of Lake Forest Drive at Bake Parkway, Lake Forest Drive at Romano St Interim and Final Buildouts.
 - Prepared Traffic Signal Modification PS&E Plans for the City of Coachella's Safe Routes to School (SR2S) Cycle 8, City Project 2009-16 State Funded.
 - Prepared PS&E and Timing Charts for Roger Elementary School's New Mid-Block Pedestrian Signal at W. Laurel St. between N. Rancho Ave. & N. Latham St.
 - Prepared PS&E for a Traffic Signal Modification Intersection Re-Striping at Alameda Ave and Victory Blvd for the City of Burbank.
 - Prepared a PS&E Package for a New Traffic Signal at La Cadena Dr. & La Loma Ave. Prepared the Timing Charts for the New Traffic Signal Controller.
 - Prepared a Traffic Signal Modification Plan for Tustin Field II "Tustin Legacy Development" for the Cities of Tustin & Irvine at Harvard Ave. & Moffett Ave/Paseo West Park.

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JENNY TRAN, BSCE

EXPERIENCE

- **3 Years** Professional Experience

EDUCATION

- **University of California, Irvine**, BSC&E Civil & Environmental Engineering

EXPERTISE

- **Traffic & Transportation Engineering**
- **Traffic Impact & Parking Studies**
- **Feasibility Studies**
- **Transportation Planning**
- **Traffic Signal Timing**
- **Highway Capacity**
- **Safety Assessment**
- **VMT & GHG Analysis & Assessment**

RELATED SKILLS

- Use of various Traffic Engineering and Transportation Planning software: HCS, SYNCHRO, SimTraffic
- AUTOCAD & MicroStation
- Advanced Surveying
- Highway Design (InRoads, CaiCe)
- ArcGIS
- MATLAB 2018, SketchUp, SolidWorks 2018, Stella, Spartan

SYNOPSIS of PROFESSIONAL EXPERIENCE

- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Huntington Park in Los Angeles County
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Guadalupe in Santa Barbara County
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Needles in San Bernardino County
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Signal Hill in Los Angeles County
- Engineering Assistant for the Preparation of Traffic Signal Modification, Interconnect Plans and Fiber Optic Systems for the City of Chino. Performed field investigations followed up by utilizing ACAD 2020 computer software for the base Engineering Plans
- Prepared a Left Turn Traffic Signal Warrant Assessment by Utilizing CA MUTCD Standards for the Intersection of Schaefer at Roswell for the City of Chino, CA
- Prepared a Traffic Signal Warrant Assessment by Utilizing CA MUTCD Standards for the Intersection of 7th Street at Valley Blvd. for the City of Colton, CA
- Engineering Assistant for the Evacuation Plan Improvement Traffic Study utilizing Synchro 10.0 Micro-computer Modeling and Sim Traffic Micro-computer Simulation for 5 Wildfire and 1 Tsunami Evacuation Plans via Pacific Coast Highway City of Malibu
- Prepared a Traffic Signal Warrant Assessment by Utilizing CA MUTCD Standards for the Intersection of San Bernardino Ave. at Sycamore Street for the City of Colton, CA
- Prepared a Traffic Signal and Stop Sign Warrant Assessment by Utilizing CA MUTCD Standards for the Intersection of "C" Street at Meridian for the City of Colton, CA
- Prepared a Technical Memo for Federal/State and City ADA Compliance at the Existing Handicap Ramps at the Two Signalized Intersections of Roswell at Schaefer and Pipeline at Schaefer in the City of Chino, CA
- Prepared a Technical Memo for the Establishment of Policies and Procedures for Red-Curb Zones within the Residential and Commercial Areas for the City of Gardena, CA
- Prepared a Traffic Impact Study for the Proposed Retail/Commercial Center at 81933 Indio Blvd for the City of Indio. Analyzed the Potential Impacts of the Proposed Project on the Existing and Future Capacity and Operations of the 6 Existing Signalized Intersections.

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SYNOPSIS of PROFESSIONAL EXPERIENCE CONTINUED:

- Prepared a Traffic Impact Study for the Proposed Retail/Commercial Center at Jefferson Ave at Varner for the City of Indio. Analyzed the Potential Impacts of the Proposed Project on the Existing and Future Capacity and Operations of the 6 Existing Signalized Intersections.
- Prepared a Technical Memo for the Development and Establishment of VMT (Vehicle Miles Travelled) for the Transportation Impact Analysis of the CEQA Requirement based upon the Senate Bill (SB) 743 for the City of Colton, CA
- Prepared a Traffic Impact Study for the Proposed Bloomington Truck Stop within the Bloomington Unincorporated area of San Bernardino County for the County of San Bernardino. Analyzed the Potential Impacts of the Proposed Project on the Existing and Future Capacity and Operations of the 15 Existing Signalized Intersections as well as 4 Future Intersections. Analyzed the Capacity and Operations of the 17 intersections utilizing Synchro 10.0 & HCS 2000+ software.
- Prepared a Traffic Signal Warrant Assessment by Utilizing CA MUTCD Standards for the Intersection of Olive Street at Meridian for the City of Colton
- Prepared a Traffic Impact Study for Commercial Center and a Focused Driveway Feasibility Analysis for the City of Clovis in Central California, Clovis, CA
- Prepared a Traffic Impact Study for the Gateway Plaza for the City of Tracy in Northern California, Tracy, CA
- Prepared the VMT (Vehicle Miles Traveled) Analysis and Assessment for the Pennsylvania Avenue Widening Project for the City of Beaumont, Beaumont, CA
- Assisted in the Preparation of the Traffic Operation Analysis Report (TOAR) document for the Pennsylvania Avenue at I-10 Freeway Interchange Improvements for the State of California Department of Transportation (Caltrans District 8), Beaumont, CA
- Prepared Traffic Control Plans (TCP) for the Metropolitan Water District of Southern California (MWD) Orange County Feeder Extension Pipeline Realignment in the Cities of Costa Mesa and Newport Beach for the Cities of Costa Mesa and Newport Beach and MWD.
- Prepared Traffic Control Plans (TCP) for the Metropolitan Water District of Southern California (MWD) Orange County Feeder Blow-off Valve Rehabilitation – Upper Newport Bay on Jamboree Road for the City of Newport Beach for the City of Newport Beach and MWD.
- Prepared a Traffic Signal Warrant Assessment for the intersection of Magnolia Ave at Vermont Ave. and Union Pacific Railroad Tracks for the Cities of Gardena, Los Angeles and Union Pacific Railroad Company. The project was fully fund by the Los Angeles County MTA (Metro).
- Prepared a Technical Memo for the ADA Requirements and compliance with the City of Chino's New Ordinance, Caltrans and the Federal Requirements of the two intersection of Schaefer Ave at Pipeline and Schaefer Avenue at Roswell Ave for the City of Chino, CA
- Prepared a traffic Impact Study and Parking Survey for the Learning Academy in the City of South Gate, South Gate, CA

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MICHELLE NGUYEN, BSC&E

EXPERIENCE

- **3 Years** Professional Experience

EDUCATION

- **University of California, Irvine, BSC&E Civil & Environmental Engineering**

EXPERTISE

- **Traffic & Transportation Engineering**
- **Signing & Striping**
- **Traffic Control Analysis**
- **Transportation Planning**
- **Traffic Signal Timing**
- **Highway Capacity**
- **Safety Assessment**
- **VTM Analysis & Assessment**

RELATED SKILLS

- Use of Various Traffic Engineering and Transportation Planning Software:
 - HCS
 - Synchro 10
 - SimTraffic
 - TransCAD
- AutoCAD 2020
- ArcGIS
- MATLAB
- SketchUp
- SOLIDWORKS

SYNOPSIS OF PROFESSIONAL EXPERIENCE

- Engineering Assistant for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Guadalupe in Santa Barbara County, CA
- Engineering Assistant for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Huntington Park in Los Angeles County, CA
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Needles in San Bernardino County, CA
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Signal Hill in Los Angeles County, CA
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Big Bear Lake in San Bernardino County, CA
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Lemoore in Kings County, CA
- Prepared the 2020 E & TS Report for 131 street segments the City of Pomona, CA
- Prepared a Traffic Sight Distance Analysis Technical Memorandum for a Proposed New Driveway at 1137 & 1149 West Phillips Blvd per the City of Pomona's Standard Design Plans and AASHTO's Guidelines for the City of Pomona, CA
- Prepared a Technical Memorandum for the Electrical Vehicle (EV) Charging Stations Project for the City of South Gate, CA
- Prepared a PS&E Package for the Electrical Vehicle (EV) Charging Stations Design for 5 Locations for the City of South Gate, CA
- City of Costa Mesa
 - Assessed Current and Potential Speed Humps and Traffic Calming Measures
 - Drafted Signing & Striping Plans for Street Improvement Project Complying with 2014 CA MUTCD and Caltrans Standard Plans & Standard Specification 2018
 - Prepared Work Orders for Street Maintenance
 - Conducted Stop Sign & Traffic Signal Warrant Analysis by Utilizing CA MUTCD
 - Performed Field Investigations into Service Requests Regarding the Operation of Traffic Signals
 - Investigated Citizen Request for Speeding Countermeasures
 - Verified the Recommended Posted Speed for the City's 2018 E&TS
 - Inventoried and Prepared a Citywide Posted Speed Signs Map
 - Prepared an Updated Citywide Average Daily Traffic Map for the Year 2019
 - Prepared an In-Kind Service Report from the Orange County Transportation Authority for funding of a Traffic Signal Synchronization Project for Harbor Blvd.

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- Performed Testing of Emergency Vehicle Preemption (EVPs) at Applicable Intersections Citywide
- City of Anaheim
 - Conducted a Field Survey of road side units and on board units along Harbor Blvd & Anaheim Blvd to Test the Interoperability Among Different Vendors

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Nhi Hoang, BSCE

EDUCATION

- **University of California, Irvine**, BSCE Civil & Environmental Engineering

EXPERIENCE

- **2 Years** Professional Experience

EXPERTISE

- **Engineering & Traffic Survey (E&TS)**
- **Local Roadway Safety Planning (LRSP)**
- **Traffic & Transportation Engineering**
- **Signing & Striping**
- **Traffic Control Analysis**
- **Transportation Planning & Management**
- **Traffic Signal Timing**
- **Highway Capacity**
- **Safety Assessment**
- **Travel Survey & Analysis**
- **VTM Assessments**

RELATED SKILLS

- Use of Various Traffic Engineering and Transportation Planning Software:
 - HCS 6
 - Synchro 11
 - SimTraffic 11
- 3-D Sketch Up
- AutoCAD 2023
- ArcGIS/ArcMAP
- Caltrans PeMS Data Source
- Civil 3D
- Java
- MATLAB
- SolidWorks

SYNOPSIS OF PROFESSIONAL EXPERIENCE

- Project Engineer for the Preparation of 2023 VMT (Vehicle Mile Traveled) Guidelines per CEQA Requirements for the City of Imperial, Imperial, CA
- Project Engineer for the City of Lancaster's VMT Assessment for 44-Unit Garden Walk-up Apartments at 40th Street and Avenue L, Lancaster, CA
- Project Engineer for the City of Perris' Scoping Agreement
- Engineering Assistant for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Needles in San Bernardino County, CA
- Engineering Assistant for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Big Bear Lake in San Bernardino County, CA
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Lemoore in Kings County, CA
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of San Pablo in Contra Costa County, CA
- Project Engineer for the Preparation of the Local Roadway Safety Plan (LRSP) for the City of Big Bear Lake in San Bernardino County, CA
- Project Engineer for the Peer Review of the Local Roadway Safety Plan (LRSP) for the City of Colton in San Bernardino County, CA
- Prepared the 2023 E & TS Report for 21 street segments the City of Needles, CA
- Prepared the 2023 E & TS Report for 29 street segments the City of Solana Beach, CA
- Project Engineer for the City of Beverly Hills' Los Angeles School of Gymnastics Parking & Traffic Study, Beverly Hills, CA
- Project Engineer for the Legal Review of the Traffic Collision Assessment for Ave M/Columbia Way at 20th St. E Street for the City of Palmdale, CA

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