



STATEMENT OF QUALIFICATIONS | CONTRACT Nos. 400024927 AND 4400024928

IDIQ CONTRACTS FOR ROADWAY DESIGN SERVICES STATEWIDE

October 4th, **2022**



IDIQ CONTRACTS FOR ROADWAY DESIGN SERVICES STATEWIDE Contract Nos. 4400024927 and 4400024928

Project Manager Babak "Bobby" Naghavi, PE, PhD bnaghavi@hardestyhanover.com 504.605.7970

TEAM

Hardesty & Hanover – Prime Consultant CD&C Inc – Survey Services

Urban Systems – Traffic Services



3850 N. Causeway Boulevard, Suite 1850 • Metairie, LA 70002 504.962.9212

www.hardestyhanover.com

Electronic Submission to: DOTDConsultantAds80@la.gov

October 4, 2022

Hardesty & Hanover (H&H) is excited to present our team's qualifications for your *Roadway Design* Services contracts. Our team is well-qualified with multiple team members with extensive experience in roadway design plans with state, parish, and federal agencies.

Subconsultant/DBE Participation: The H&H Team includes subconsultants with extensive experience in their specialty areas. To meet the 4% DBE participation goal of this contract we have included two highly qualified firms. Civil Design & Construction, Inc. will perform all topographic survey work and Urban Systems Inc. will perform all traffic control design, traffic signal analysis, design work and transportation management plans (TMPs). We have worked with these subconsultants in the past.

Proven Roadway Design Services: H&H's team of highly qualified engineers have extensive experience, are local and available to begin on the project as soon as awarded. Our team of engineers and specialists have decades of roadway and bridge design experience with the Louisiana Department of Transportation and Development. From preparing preliminary and final roadway plans, associated services and beyond, our team is dedicated to meeting and exceeding your expectations through efficiency and skillset.

LADOTD Experience: Our team assigned to these projects have comprehensive experience using LADOTD standards and specifications with several working at LADOTD for over 25 years and/or working on prior LADOTD projects. Because we are thoroughly familiar with LADOTD procedures and design standards, we will be able to work at accurately and swiftly from the beginning of the Roadway Design Services contract. Our staff from H&H meet and exceed all the MPRs required under this contract. H&H would sincerely appreciate an opportunity to work with LADOTD on this important IDIQ Roadway Design Services Contract. We'd appreciate your consideration and look forward to providing top-quality roadway design services. Please do not hesitate to contact us if additional information on our extensive qualifications is needed.

Sincerely, Hardesty & Hanover

Paul Skelton, PE Principal-in-Charge Babak Naghavi, PE, PhD, PH Project Manager and Point of Contact

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

1.	Contract title as shown in the advertisement	IDIQ CONTRACTS FOR ROADWAY DESIGN SERVICES STATEWIDE
2.	Contract number(s) as shown in the advertisement	4400024927 AND 4400024928
3.	State Project Number(s), if shown in the advertisement	N/A
4.	Prime consultant name (as registered with the Louisiana	Hardesty & Hanover, LLC
	Secretary of State where such registration is required by	
	law)	
5.	Prime consultant license number (as registered with the	E.F.0005124
	Louisiana Professional Engineering and Land Surveying	
	Board (LAPELS) if registration is required under	
	Louisiana law)	
6.	Prime consultant mailing address	3850 N. Causeway Boulevard, Ste 1850
		Metairie, LA 70002
7.	Prime consultant physical address (existing or to be	3850 N. Causeway Boulevard, Ste 1850
	established, if location is used as an evaluation criteria)	Metairie, LA 70002
8.	Name, title, phone number, and email address of prime	Babak (Bobby) Naghavi, PhD, PE, PH, Regional Manager 504.605.7940
	consultant's contract point of contact	bnaghavi@hardestyhanover.com
9.	Name, title, phone number, and email address of the	Paul Skelton, PE, Principal
	official with signing authority for this proposal	504.962.9212 pskelton@hardestyhanover.com
10	This is to certify that all information contained herein is	
	accurate and true, and that the team presently has	
	sufficient staff to perform these services within the	
	designated time frame. By submitting this proposal,	
	proposer certifies that it is not engaged in a boycott of	
	Israel and it will, for the duration of its contract	
	obligations, refrain from a boycott of Israel. Proposer	
	also certifies and agrees that the following information	
	is correct: In preparing its response, the proposer has	
	considered all proposals submitted from qualified,	
	potential subcontractors and suppliers, and has not, in	



the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or Signature (shall be the same person as #9): entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person 10/4/2022 or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right Date: to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response. Firm(s)' %: 11. If a Disadvantaged Business Enterprise (DBE) goal has Firm(s): Percentage per firm will be based on individual TO assignments been set for this advertisement, indicate which firm(s) CD&C Inc. 7.5% will be used to meet the DBE goal and each firm(s)' Urban Systems, Inc. 7.5% percentage.



12. Past Performance Evaluation Discipline Table:

Evaluation Discipline(s)	% of Overall Contract	Prime: Hardesty & Hanover	CD&C Inc.	Urban Systems, Inc.	Each Discipline must total 100%
Road	85%	100%			100%
Survey	7.5%		100%		100%
Traffic	7.5%			100%	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.					
Percent of Contract	100%	85%	7.5%	7.5%	

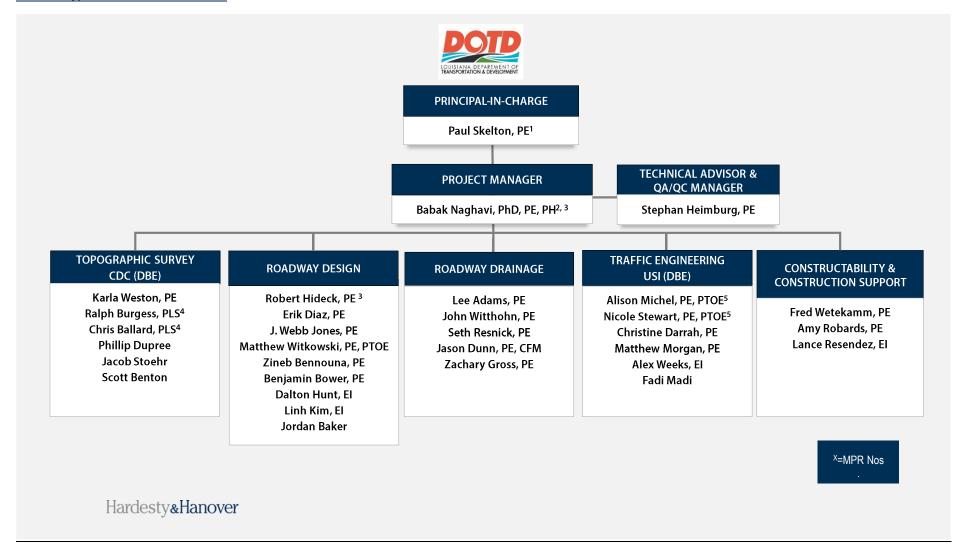


13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Hardesty & Hanover, LLC	Principal	2	12
	Supervisor – Eng	4	20
	Engineer	4	42
	Engineer - Other	6	224
	Inspector - Bridge	0	38
	Supervisor - Arch	0	2
	Supervisor - Other	0	8
	Engineer Intern	3	46
	Designer	1	42
	Administrative	1	28
Civil Design & Construction, Inc.	Supervisor – Eng	1	1
	Engineer Intern	1	1
	Surveyor	2	2
	Party Chief	3	5
	Instrument Man	2	3
	Rodman	2	2
	CADD-Operator	1	1
	Senior Technician	3	5
	Supervisor - Other	1	1
Urban Systems, Inc.	Supervisor – Eng	2	2
	Engineer	2	2
	Engineer - Other	1	1
	Engineer Intern	2	2
	CADD Technician	1	1
	Technician	2	3



14. Organizational Chart:





15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1	Paul Skelton	Hardesty & Hanover	PE (27039)	LA	3/31/2023
2	Babak Naghavi	Hardesty & Hanover	PE (20745)	LA	9/30/2024
3	Babak Naghavi	Hardesty & Hanover	PE (20745)	LA	9/30/2024
3	Robert Hideck	Hardesty & Hanover	PE (41953)	LA	3/31/2024
4	Ralph Burgess	Civil Design & Construction, Inc.	PLS (5040)	LA	09/30/24
4	Chris Ballard	Civil Design & Construction, Inc.	PLS (5033)	LA	09/30/24
5	Alison C. Michel	Urban Systems, Inc.	PE #30261	LA	3/31/2023
		-	PTOE #1023		11/6/2023
5	Nicole H. Stewart	Urban Systems, Inc.	PE #34750	LA	09/30/2023
			PTOE #2923		08/30/2023



Firm	Employed by	Hardesty & Hanover	•		
Name	e	Paul Skelton, PE		Years of relevant experience with this employer	35
Title		Principal-in-Charge		Years of relevant experience with other employer(s)	0
Degree(s) / Years	/ Specialization	1	B.E. / 1985 / M	ech. Engineering / State University of NY at Stony Bro	ok
Active registration	number / state	/ expiration date	Professional En	gineer: 27039 / LA / 3/31/2023	
Year registered	1995	Discipline	Mechanical Eng		
Contract role(s) / b		n of responsibilities		harge – Meets MPR 1	
Experience dates				osed contract; i.e., "designed drainage", "designed gir	ders",
(mm/yy-mm/yy)				d cover the time specified in the applicable MPR(s). abilitation, St. Mary Parish, LA – LADOTD	
06/17-present	distribution and r significant bridge hydraulically actu	elay-based control system was replaced with a new uated slewing (push-pull) c	for this movable bri hydraulically operate ylinders. The projec	electrical design, calculations, and plan preparation of the bridge podge located in St. Mary Parish, LA. Built in 1941, the original histored swing bridge. The new through girder swing-span rotates with t is currently in the post-design phase.	
03/18-present	present which includes developing standard and s rehabilitation of structural, mechanical, an			 Mississippi DOT bascule bridge, as a task-order to the IDIQ Master Bridge Contrals, statewide for MDOT. Scope of work includes inspection and into the bridge, as well as the roadway approaches and development AASHTO, FHWA and MDOT guidelines and specifications. 	
01/20-present	Principal-in-Cha partial replacementhe National Reg and the connectional Reg and the connectional Reg	arge for the bridge assessing the first argument of the Almonaster Averuister of Historic Places briding roads were required to a connecting road including	ment, complete reha nue Bridge and a neo dge revealed that im return this bridge to all drainage structu	ctor Road, New Orleans, LA – Port of New Orleans bilitative engineering design, and road design services required fow connector road. H&H's 2019 assessment of the circa-1920, elign provements to the electrical and mechanical systems, superstruction its full operating capability. The road design services included a neares. H&H also developed a hydraulic study and a site plan that incivices included environmental, geotechnical, and pavement design.	ible for ure, ew luded



01/19-present	Principal-in-Charge for the pre-design inspection, the rehabilitation and widening of the existing four-lane Lapalco Boulevard to provide a facility carrying three lanes of traffic in each direction, and the design of a new three-lane double bascule bridge crossing of Harvey Canal. project includes rehabilitation to the existing four-lane bridge with three lanes of traffic and a new pedestrian/bike lane. The scope of services also includes the design of a new bridge to be constructed as an independent structure immediately adjacent and north of the existing bridge with a new operator house. Improvements to bridge and roadway approaches for eastbound and westbound traffic as well as the development of a Traffic Control Plan is also included in scope.
01/16-10/21	SR-A1A/North Causeway Bridge over ICWW, Fort Pierce, FL - Florida DOT Principal-in-Charge for the 4000-foot-long bridge replacement project which replaces a bascule span with a high-level fixed bridge that has 85-foot vertical clearance over the navigable channel. The preferred replacement fixed bridge alternative includes the FIB superstructure and spans over Old Dixie Hwy and the FEC Railway. In addition, the project includes extending Juanita Ave east from US-1 to Old Dixie Hwy and provisions for a new access roadway for the businesses south and north of the new bridge along SR A1A.
10/15-06/19	Marine Parkway/Gil Hodges Memorial Vertical Lift Bridge Rehabilitation, Brooklyn/Queens, NY – MTA Bridges & Tunnels Principal-in-Charge for bridge rehabilitation services which included a deck replacement study and design. Deck widening was accomplished by relocating the sidewalk with new brackets. Our emphasis on constructability during design and extensive prefabrication strategies facilitated fast-track construction. Work also entailed major electrical upgrades, repainting of the structure, and complete lead abatement. The completed bridge includes a widened modular precast lightweight concrete deck on the deck truss spans, a widened open grating deck on the through trusses and lift span, and a lightweight sidewalk located on the new cantilever brackets extending out from the existing floor beams. The cellular abutments were also repaired and re-decked. Ancillary work included extensive electrical facility design as well as lighting and draining upgrades.
07/16-10/16	Warsaw Road Swing Bridge, St. Peterborough, Ontario, Canada – Public Works and Government Services Canada Principal-in-Charge responsible for rehabilitation of a swing bridge located on Parkhill Road, in the City of Peterborough. It was constructed in 1956. The Warsaw Road Bridge is approximately 31.1m long, unequal arm, through-plate girder swing bridge. The short arm of the bridge is approximately 10.0m, and the long arm is approximately 21.1m. The width of the bridge is approximately 10.3m with a roadway of approximately 7.3m. The work involves structural, electrical, and mechanical rehabilitation of the bridge.
08/08-08/13	Judge Seeber (Claiborne Ave) Vertical Lift Bridge over Industrial Canal Rehabilitation, New Orleans, LA – LA DOTD Principal-in-Charge for bridge rehabilitation services for this Preservation Priority Bridge. Services included vertical lift bridge assessment and rehabilitation design for miscellaneous structural repairs, replacement of the entire electrical system and replacement of the counterweight ropes. The electrical system was replaced in-kind using secondary resistance control operated with a drum switch as preferred by the owner. The vertical lift ropes were replaced using an innovative design connecting the rope socket to the lifting girder. The new socket allows the ropes to be shimmed using a vertically elongated pin hole that allows for rope length adjustment to help ensure equal load distribution to each lifting rope.



	Firm Employed by		Hardesty & Hanover	:				
Name		Babak Naghavi, PhD, PE, PH		Years of relevant experience with this employer 5				
	Title		Regional Manager		Years of relevant experience with other employer(s)	35		
Degree(s) / Years / Specialization Active registration number / state / expiration date				PhD / 1993 / Civil Engineering / Louisiana State University MS / 1982 / Civil Engineering / Louisiana State University BS / 1979 / Civil Engineering / Louisiana State University Professional Engineer: 20745 / LA / 9/30/2024				
				NEPA Transportation Decision Making Workshop ATSSA Traffic Control Supervisor Refresher – ATSSA Flagger Highway Safety Manual Workshop				
Year registe		1983	Discipline		onmental Engineering			
Contract rol			of responsibilities		ger – Meets MPR 2 and 3			
-				qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders",				
dates (mm/y	yy- "c	designed inter	section", etc. Experience	ence dates should	d cover the time specified in the applicable MPR(s).			
mm/yy)		1001400 !!	D : E! D D		ATR			
08/20-prese	I-10 & I-12 College Drive Flyover Ramp Design-Build - LA DOTD Project Quality Manager overseeing design and construction quality control/quality assurance for this flyover ramp design-build project which is located at the I-10 West exit to College Drive, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Responsibilities include the development and implementation of Comprehensive Quality Plan to ensure the design and construction conforms to all specified requirements. H&H will also develop, maintain, and update Contractor Quality Management Plan and provide all necessary qualified Inspectors, material sampling, testing, independent testing labs to ensure contractors and off-site fabrication facilities meet project specifications.					he Plan		
inspection for LADOTD Sidewalk Improvements to Co Boulevard) with US 190 (Gause Boulevard) in the city location 175' North of the intersection of LA 1091 with the PT of the curbing in each direction. The project			for various design service OOTD Sidewalk Improvem S 190 (Gause Boulevard) n of the intersection of LA bing in each direction. Th	s including prelimina ents to Conform to A in the city limits of S 1091 with Country C ne project includes p	A DOTD Ary plans, final plans, construction engineering, project proposal plant ADA Guidelines. The project begins at the intersection of LA 1091 for 2.0+/- microbial Bloom and the survey will extend along LA 1091 for 2.0+/- microbial Boulevard. The survey will extend along all major side roads 5 providing various design services including preliminary plans, fination for LADOTD Sidewalk Improvements to Conform to ADA Guideling	(Robert iles to a 50' from Il plans,		



01/18-present	Lapalco Boulevard Movable Bridge Over Harvey Canal, Westwego, LA – Jefferson Parish DWP Principal-in-Charge for the pre-design inspection, the rehabilitation and widening of the existing four-lane Lapalco Boulevard to provide a facility carrying three lanes of traffic in each direction, and the design of a new three-lane double bascule movable bridge. Project includes rehabilitation to the existing four-lane bridge with three lanes of traffic and a new pedestrian/bike lane. The scope of services also includes the design of a new bridge to be constructed as an independent structure immediately adjacent and north of the existing bridge with a new operator house. Improvements to bridge and roadway approaches for eastbound and westbound traffic as well as the development of a Traffic Control Plan.
05/13-02/17	Glen Oaks Drive (Plank Road to McClelland Drive) – Baton Rouge DPW Project Manager for the \$10M engineering design for the construction of a three-lane concrete curb and gutter roadway with sidewalks and subsurface drainage on Glen Oaks Drive from Plank Road to McClelland Drive. Glen Oaks Drive was a one-mile existing Urban Collector roadway. The project also included improvements to several intersections, full topographic survey, subsurface drainage system and outfalls, and hydrologic and hydraulics analysis for the outfalls.
05/12-11/15	S.P. No. 737-99-1024: Safe Routes to School Project – LA DOTD Project Manager providing design and construction engineering and inspection services for selected projects involving sidewalks and related drainage modifications, curb extensions, signing, and striping. Work included sidewalk, signage, and marking improvements in the vicinity of several school areas including Daspit Elementary School in New Iberia, LA; two schools in DeRidder, LA; three schools in Orleans Parish, LA; Mandeville Elementary School in Mandeville, LA; and Hammond Junior High in Hammond, LA
01/09-08/10	USACE Contract. W912P8-07-D-0055: Causeway Boulevard Overpass Complex - USACE Project Manager for this project that involved the design of north and south roadway approaches for the overpass structures at Causeway Boulevard located at Jefferson Parish, LA. The scope of work included precast concrete piles; cast-in-place pile bent caps and concrete decks; approach slabs; and a storm-water drainage pumping station.
02/81-07/87	Road Design Section, Hydraulics Unit – LA DOTD Senior Hydraulics Engineer responsible for the review and design of the numerous roadway and drainage projects including the drainage design of roadway and bridge structures, scour analysis of bridges; and stabilization of stream banks and shorelines. Also developed the Hydraulic Design Manual and all the hydraulics and hydrologic computer programs that were used by the LADOTD, other government agencies, and the consultant community to design the hydrologic and hydraulic structures.
06/16-02/17	Jefferson Parish Streets Canal Safety Study – Jefferson Parish DPW Project Manager for analysis of safety concerns of canals at Veterans Memorial Boulevard and West Napoleon Avenue. The study included safety study of these two major arterial roads, compiling accident data, developing several corrective measures, recommending solutions, and developing a comprehensive conceptual plan to alleviate safety concerns of these canals. The plan also included the development of a cost estimate for the proposed solutions.



	, ,		Hardesty & Hanover	•		
			Stephan Heimburg	, PE	Years of relevant experience with this employer	13
	Title		Chief Engineer		Years of relevant experience with other employer(s)	25
Degree(s) / Y	/ears / Spe	ecialization		BS / 1984/ Civi	l Engineering / Georgia Institute of Technology	
			xpiration date	Professional En	gineer: 41934/ FL	
Year registere	red	1989	Discipline	Civil Engineeri	ng	
Contract role	(s) / brief	description of	responsibilities)	isor & QA/QC Manager	
Experience da (mm/yy-mm/					osed contract; <i>i.e.</i> , "designed drainage", "designed gird cover the time specified in the applicable MPR(s).	ders",
two-mile roadway improvement project inc 08/16-06/18 to the southbound off-ramp and widening t		rge/Quality Control Office improvement project inclu I off-ramp and widening the tion of this design into a lo	er responsible for pr ded the addition of a e I-75 southbound o ng-term buildout of t	oject oversight of plans preparation and engineering documentation and auxiliary lane for southbound I-75 from south of the Bypass of the framp from one to two lanes. A unique aspect of the design approaches interchange. This project was expedited for construction based	Canal bach	
and service movements. This project include between Orange Blossom Trail and the adj ramps between freeways, an ultimate 10-la connections, and improvement of surface s			responsible for concept de ments. This project include Blossom Trail and the adja eeways, an ultimate 10-lar improvement of surface st	evelopment, coording an evaluation of a scent two limited according typical section of the typical sections with	a's Turnpike Enterprise ation, and project oversight of a complex interchange, including sy a complex interchange that provides both direct and indirect rampin ess highways. Project goal included: construction of direct connect the turnpike, implementation of AET, consideration of express direct two new reliever interchanges. The recommended configuration in djoining interchanges, and new proposed service interchanges.	ng tion ct
· · · · · · · · · · · · · · · · · · ·			esponsible for project over	sight for a study of t	 Pinellas County he severe embankment erosion aggravated by Hurricane Debbie a abilization with geotextiles and final plans to repair the trail. 	along



02/15-06/18	44 th Avenue, E from 45 th Street E to 44 th Avenue Plaze E, Braden River Segment – Manatee County Chief Engineer responsible for oversight of roadway and traffic control plans design. This project includes the design for the reconstruction and extension of 44th Avenue East from 45th Street East to 44th Avenue Plaza East. The design plans include widening from a two-lane roadway to a four-lane divided urban roadway. As part of this project, a new bridge will be designed to cross over the Braden River and the realignment of Morgan Johnson Road and Caruso Road will provide route continuity. Alternative intersection designs, including a roundabout and stage construction were considered.
01/07-03/14	Veterans Expressway (SR 589) Widening from Memorial Highway to Gunn Highway – Florida's Turnpike Enterprise Project Manager, Chief Engineer and Subconsultant responsible for design coordination and maintenance of traffic support. This project included the widening of more than 6.5 miles of a tolled principal urban arterial in northwest Hillsborough County from four to eight lanes, including the addition of express lanes. As part of the expansion, the existing conventional cash toll collection method was converted to an AET collection method. The project included two full interchanges and four partial interchanges. Due to the proximity to the Tampa International Airport, aviation permits were required throughout the project corridor and extensive coordination was required with the FAA and Hillsborough County Aviation Authority (HCAA). This activity included meeting with aviation agency staff and the design team to adjust design element locations and/or elevations for the acquisition of FAA determinations required for HCAA permits. The project also included the milling and resurfacing of the existing roadway, as well as widening and reconstruction.
10/98-12/99	Hurricane Georges Emergency Resigning (PRHTA GEC Contract) – Puerto Rico Highway and Transportation Authority Senior Engineer responsible for leading the development of multiple plan packages, coordination of efforts to ensure replacement signage, and criteria updates based on Manual on Uniform Traffic Control Devices (MUTCD) requirements. This fast-tracked task assignment entailed field inventory for more than 3,100 miles (5,000 kilometers) of roads plus planned production for more than 41,000 signs damaged by Hurricane Georges. The assignment was completed in ten weeks and required collective efforts of 12 offices.
03/12-05/16	Tampa Interstate Express Lane Master Plan – Florida DOT Chief Engineer responsible for conceptual design efforts and criteria development for implementing tolled express lanes for high volume segments of I-275 and I-4, from the Howard Frankland Bridge to 50th Street and SR 60 between I-275 and SR 589. Coordinated interfaces with adjoining segments on I-275 to the west and north and I-4. Florida DOT District 7 initiated development of an express lane master plan that expanded on the geographic limits of express lanes, defined in the TIS FEIS, and changed their operation with the addition of tolls. Conceptual design efforts included a stage construction plan from "starter" projects of individual segments through buildout of three systems interchanges and assessments of new and changed access.
04/11-06/15	SR 211 (Beach Boulevard) Landscaping from St. Johns Bluff Road to San Pablo Road – Florida DOT Chief Engineer responsible for traffic control plans and constructability oversight. The project involved roadway design for over 5.6 miles, including landscaping and irrigation improvements for proposed bold landscaping within existing medians on Beach Boulevard, from St. Johns Bluff Road to San Pablo Road in Jacksonville.



	Firm	Employed by	Hardesty & Hanover	•				
33	Name	e	Robert Hideck, PE		Years of relevant experience with this employer	7		
	Title		Senior Roadway Eng	gineer	Years of relevant experience with other employer(s)	11		
Degree(s) /	Years /	Specialization	l	B.S. / 2002 / Ci	vil Engineering / University of Pittsburgh			
Active regis	stration	number / state	/ expiration date		gineer: 41953 / Louisiana / 3/31/2024			
Year registe	ered	2017	Discipline	Roadway Engir	neering			
Contract rol	le(s) / t	rief description	n of responsibilities	Roadway Desig	gn Engineer – Meets MPR 3			
Experience	dates	Experience an	nd qualifications rele	vant to the prop	osed contract; i.e., "designed drainage", "designed g	girders",		
(mm/yy-mr	n/yy)	"designed inte	ersection", etc. Exper	ience dates shoul	d cover the time specified in the applicable MPR(s).			
					ctor Road, New Orleans, LA – Port of New Orleans			
		, ,	•		ete rehabilitative engineering design, and road design services req			
			replacement of the Almonaster Avenue Bridge and a new connector road. H&H's 2019 assessment of the circa-1920, eligible					
11/20-pres	ent		the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure,					
			ng roads were required to return this bridge to its full operating capability. The road design services included a new connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included					
		•			• • • • • • • • • • • • • • • • • • • •			
		several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design. Districtwide Interstate Program Manager (IPM) – Florida DOT						
		Project Engineer assisting with the development and review of concept designs. This multi-discipline, indefinite quantity contract provided						
01/14-pres	ent	as-needed services to support the Florida DOT work program for all interstate highway improvements in the five-county FDOT District						
		region. The geographic limits include over 150 miles of I-275, I-4, and I-75 and key contributing arterials.						
		SR 75 (US 231) Reconstruction, SR 30A (US 98) to South Pipeline Road, Panama City, FL – Florida DOT						
					ntrol Plans/Engineer of Record responsible for design and prepa	aration of		
04/17-05/2	21			marking, and temporary traffic control plans. H&H is providing design services for the single point urban				
		interchange (SPI	UI) at SR 77 over US 231	and CSX RR improv	ement project. Work includes design for roadway and drainage des	sign of		
			e intersection, lighting design for the entire project, and bridge design for a new 840-foot steel bridge.					
		•	• • • • • • • • • • • • • • • • • • • •	•	ghway to Gunn Highway – Florida's Turnpike Enterprise			
		•		y design, preparation of plans, coordination of subconsultants and multiple disciplines, post-				
03/07-10/	13	•		•	the expansion, the existing conventional cash toll collection method			
00/01/10/					o full interchanges and four partial interchanges. Due to the proxir	•		
		•		•	throughout the project corridor and extensive coordination was rec	•		
		with the FAA. Th	is activity included meeting	g with aviation agend	cy staff and the design team to adjust design element locations and	d/or		



	elevations for the acquisition of FAA determinations required for HCAA permits. The project also included the milling and resurfacing of the existing roadway, as well as widening and reconstruction.
12/13-05/19	Homestead Extension of Florida's Turnpike (SR 821) - S of Killian Parkway to N of Sunset Drive, Miami, FL – Florida's Turnpike Roadway Engineer responsible for roadway and TTC design for Kendall Drive and Sunset Drive and the mainline HEFT. This design-build project comprised the widening of the mainline HEFT (SR 821) from south of Killian Parkway to just north of Sunset Drive. The project also included development of express lanes, relocation of ramp tolling, and operational improvements to the Kendall Drive interchange as well as resurfacing and other minor improvements.
03/15-03/17	Fort Hamer Bridge Approaches, Upper Manatee River Road to Fort Hammer Road, Manatee County, FL – Manatee County Project Roadway Engineer responsible for roadway and temporary traffic control plans. This project included the design of over a mile of approach roadway for a new bridge over the Manatee River, connecting Upper Manatee River Road with Fort Hamer Road. The project was designed for stage construction with the two lanes being delivered with initial construction.
04/17-03/20	SR 75 (US 231) from SR 30A (US 98) to Pipeline Road, Panama City, FL – Florida DOT Roadway, Signing and Pavement Markings, and TTCP Engineer of Record responsible for design and preparation of roadway, signing and pavement marking, and traffic control plans for the single point urban interchange at SR 77 over US 231 and CSX RR improvement project. Work includes bridge, roadway, drainage, and lighting design.
09/15-12/18	44th Avenue E from 45th Street E to 44th Avenue Plaza E, Braden River Segment, Manatee County, FL – Manatee County Roadway Engineer of Record/Senior Roadway Engineer responsible for roadway and traffic control design and plans preparation. Project included the design for the reconstruction and extension of 44th Avenue East from 45th Street East to 44th Avenue Plaza East. The design plans include reconstruction from a two-lane roadway to a four-lane divided urban roadway. A new bridge was designed to cross over the Braden River, as well as a realignment of Morgan Johnson Road and Caruso Road to provide route continuity.
01/16-05/18	I-75 SB Off-Ramp from S of Bypass Canal to EB/WB I-4, Hillsborough County, FL – FDOT Project Engineer responsible for the roadway and temporary traffic control (TTC) design and plans preparation for this two-mile roadway improvement project that included ramp widening, an extension of the ramp to provide off-line queueing, and an extended auxiliary lane on I-75. A unique aspect of the design team's approach was incorporation of operational improvements into a long-term buildout. This project was expedited for construction based on no right-of-way acquisition or impact to Florida Gas Transmission lines.
04/22-present	Orlando South Ultimate Interchange Improvements – Florida's Turnpike Enterprise Project Engineer responsible for concept development, coordination, and project oversight of a complex interchange, including system and service movements. This project includes an evaluation of a complex interchange that provides both direct and indirect ramping between Orange Blossom Trail and the adjacent two limited access highways. Project goal included: construction of direct connection ramps between freeways, an ultimate 10-lane typical section of the turnpike, implementation of AET, consideration of express direct connections, and improvement of surface street operations with two new reliever interchanges. The recommended configuration included improvements to the systems interchange, modification to two adjoining interchanges, and new proposed service interchanges.
03/06-12/07	Starkey Road Final Design – Pinellas County Government Engineering Intern responsible for design and development of plans and development of cross sections. This project included the widening of three segments of Starkey Road from a four-lane rural section roadway to a six-lane urban section roadway for a total length of 10.7 miles.



Firm	m Employed by Hardesty & Hanover		r		
Nam	e	Erik Diaz, PE		Years of relevant experience with this employer	2
Title		Sr. Structural Engine	eer	Years of relevant experience with other employer(s)	11
Degree(s) / Years	/ Specialization	1	B.S., 2008, Civ	il Engineering, Louisiana State University	
Active registration	number / state	/ expiration date	Professional En	gineer: 37712 / LA / 09/30/2023	
		1		Rehabilitation of Historic Bridges (LADOTD)	
Year registered	2013	Discipline	Civil Engineeri		
	brief description	n of responsibilities	Roadway Desig	gn	
Experience dates			vant to the propo	osed contract; i.e., "designed drainage", "designed gir	ders",
(mm/yy-mm/yy)				d cover the time specified in the applicable MPR(s).	,
07/16–07/17	Senior Movable bridge over Lake	Bridge Structural Engin Pontchartrain. Work on the	eer for the comprehens project included the	bilitation, Jefferson and St. Tammany Parishes, LA – LA DOTE ensive rehabilitation of one bascule and replacement of another bane inspection of old spans, the rehabilitation design development for a new south bascule span.	scule
10/14-12/15	Bridge Ratings for 110 Bridges, Statewide – LA DOTD Movable Bridge Structural Engineer responsible for developing spreadsheets and processes for rating bridge substructures. Also performed ratings for bridge superstructures and substructures using AASHTOWare and Excel. Wrote bridge rating reports.			SO,	
12/12-10/15	Movable Bridge	Houma Navigation Canal Bridge Rehabilitation, Houma, LA – LA DOTD Movable Bridge Structural Engineer responsible for performing bridge inspections to identify repairs for rehabilitation as well as providing bridge rating to identify areas for strengthening. Also, designed and detailed various elements for bridge rehabilitation.			
10/08-04/13	Movable Bridge	Structural Engineer resp	ponsible for checking	ty, LA - New Orleans Public Belt Railroad and LA DOTD g and approving shop drawings as well as performing various ening of the bridge including HPL trusses and approaches.	
08/15-02/19	Senior Structura over the Vermillion rehabilitated. Ev	al Engineer for the inspect on River. Work on this pro	tion, rating, and final eject included inspec- tives for strengthenin	lion Parish, LA – LA DOTD I rehabilitation recommendations report for two steel vertical lift brid tion and load rating to identify components of the bridge to being the bridge and increasing vehicular vertical clearance. Produce frecommendations.	



01/20-present	Almonaster Avenue Bridge Rehabilitation and New Connector Road, New Orleans, LA – Port of New Orleans Structural Engineer for the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Avenue Bridge and a new connector road. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.
08/19-present	Lapalco Boulevard Movable Bridge over Harvey Canal, Jefferson Parish, Louisiana – Jefferson Parish DPW Structural Engineer for the pre-design inspection and design of a new three-lane double bascule movable bridge crossing of Harvey Canal and the widening of the existing four-lane Lapalco Boulevard to provide a facility carrying three lanes of traffic in each direction. The new bridge is constructed as an independent structure immediately adjacent and north of the existing bridge with a new operator house. Project includes rehabilitation to the existing four-lane bridge with three lanes of traffic and a new pedestrian/bike lane, improvements to bridge and roadway approaches, and development of a Traffic Control Plan.
11/18-08/19	Comite River Diversion East, Baton Rouge Parish, LA – UPRR & USACE Structural Engineer Representative for KCS Railroad bridge portion of the project that provided flood relief for the Comite River through the construction of a diversion canal connected to the Mississippi River. The project included peer review of plans, calculations and constructability, using AREMA requirements, for a new railroad bridge that intersects with the diversion canal.
11/21-present	Sidewalk Improvements to Conform to ADA Guidelines – LA DOTD Project Engineer for various design services including preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines. The project begins at the intersection of LA 1091 (Robert Boulevard) with US 190 (Gause Boulevard) in the city limits of Slidell, Louisiana, then continues North along LA 1091 for 2.0+/-miles to a location 175' North of the intersection of LA 1091 with Country Club Boulevard. The survey will extend along all major side roads 50' from the PT of the curbing in each direction. The project includes providing various design services including preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines.
11/18-12/19	Lake Pontchartrain Causeway Safety Bay Improvements CE&I – Greater New Orleans Expressway Commission Structural Inspector responsible for providing construction engineering and inspection services required during the safety bay improvement project for fabrication of pre-stressed piles and girders, caps and decks as well as all other construction activities including field monitoring, documentation, preparation of daily reports, participation in construction progress meetings, construction close-out, etc.



	Firm Em	Employed by Hardesty & Hanover		•		
	Name		Matthew Witkowski	, PE, PTOE	Years of relevant experience with this employer	7
	Title		Transportation Plann	ning	Years of relevant experience with other employer(s)	20
Degree(s) /	Years / Sp	pecialization			neering / 1999 / University of Delaware	
Active region	stration nu	ımbar / stata	/ expiration date		Civil Engineering / University of Delaware gineer: 41787 / Louisiana / 9/30/2023	
Year registe		2001	Discipline	Civil Engineeri		
Contract rol			of responsibilities	Roadway Design		
Experience					osed contract; i.e., "designed drainage", "designed g	girders",
(mm/yy-mr					d cover the time specified in the applicable MPR(s).	,
01/16-pres	ca sic de sent Hig ex rep Ex an	raffic Engineer repacity. Three de streets will pevelopment of h ghway sections tisting underlyir pair and placer reception Report and striping plans	in charge of preliminary enew interconnected traffic provide necessary dedicate provide necessary dedicate provide and vertical george were prepared to detail progression of a new overlay. Contact will be developed and sure, traffic signal plans, high	engineering phase for signals as well as the determing lanes as wellerics including 'be proposed roadway late emain and to establing Substandard bmitted to NJDOT away lighting plans ar	Street – New Jersey DOT in \$8 million intersection improvement project to improve operation are widening of approximately One-mile section of Route 38 and adjuvell as appropriate deceleration lane lengths. Design effort includes st fitting' of new Route 38 baseline to minimize right-of-way impacting configurations. Pavement cores were utilized to identify the limits hall limits for full depth pavement reconstruction versus concrete part Design Elements (CSDEs) to remain were identified and a Design Federal Highway for approval. In addition to construction, trafficate required. Traffic control and staging plans will be developed and will also be prepared for the project.	jacent s ts. its of evement in
08/18-pres	sent Trai	raffic Engineer nging from one ork includes de	to four spans, all carry the eck patching of concrete de	idge decks to seven e Rte. 46 mainline o ecks, deck joint repa	- New Jersey DOT structures located within this 2-1/4-mile resurfacing project. Struct ver Rte. 17 NB & SB, NJ Transit railroad, local roadways, and a str irs, and bridge-mounted guide rail upgrades. Responsible for Responding ADA compliant pushbuttons and pedestrian signal heads.	ream.



05/16-07/18	SR-710 / Beeline Highway Interchanges from Northlake Blvd to Blue Heron Blvd – Florida DOT Traffic Engineer responsible for performing a Traffic Signal Warrant analysis using FDOT District 4 and MUTCD standards. Provided oversight for the design and development of traffic signal plans at four (4) intersections and coordination with electrical engineer performing lighting analysis and design. Project involves the expansion and reconstruction of a 3-mile divided suburban highway segment, increasing from 4 to 6 lanes in each direction, incorporating highway widening improvements, upgraded traffic signals, and a new traffic signal at a previously unsignalized location. The Turnpike Bridge over SR-710 will be replaced.
03/15-03/17	Roadway Improvements for County Route 537 Corridor – Monmouth County Lead Traffic Engineer responsible for the redesign of five existing traffic signals. Traffic task manager for federally funded improvements to the CR 537 corridor between Sentinel Road and the U.S. Route 9 Interchange. Provided oversight for the analysis of existing and future conditions and for highway lighting and ITS design initiatives. Project included implementation of ADA facilities fully compliant with Federal ADAAG standards and close coordination with Monmouth County engineering staff.
01/12-11/14	Conceptual and Final Design for I-295 / I-76 / Route 42 Direct Connection – New Jersey DOT Traffic Engineering Task Manager for conceptual design, alternative analysis, environmental document, and final design for this \$900 million project for one of the largest and most congested interchanges in southern New Jersey. Responsible for performing freeway, arterial, and intersection operational analyses for Contract 1. Designed two permanent traffic signals along a County Route and one temporary traffic signal that operated as a two-way, one-lane movement over a bridge under reconstruction. Developed maintenance of traffic plans, including temporary guide signs, and two interim traffic signals. Worked closely with NJDOT Bureau of Traffic Engineering and Resident Engineer to maintain design and construction schedules.
07/08-07/12	Route 30 / 130 Collingswood Circle, Phase B – New Jersey DOT Traffic Engineer responsible for traffic analysis for no build and build condition for multiple intersections along Route 30/130 which included the design of an upgraded traffic signal for the \$40.5 million Cooper River Bridge replacement and improvements at North Park Drive. Included creating a separate northbound right turn lane, minor widening of the east approach to accommodate three standard lanes and the addition of a second receiving lane to the east of the intersection, with minor widening of the west approach to accommodate two standard lanes. Assisted in the development and oversight of maintenance of traffic plans and designed a temporary traffic signal utilizing wood poles and span wires for multiple construction stages.
11/15-02/17	Region 8 Design-Build of Bundled Bridges – New York State DOT Traffic Engineer responsible for providing detour route analyses and temporary signal design services to subconsultant design-build team for six fixed bridge and culvert crossings in rural locations. Detour routes were analyzed for bridge closure alternatives. Synchro/SimTraffic analysis software was used, and traffic signal timing modifications and geometric modifications were recommended for impacted locations. Temporary traffic signals were designed for locations with a projected increase in volume, including multiple two-way, one-lane systems.



		1			
F	irm Employed by	Hardesty & Hanove	r		
N	ame	J. Webb Jones, III, F	PE	Years of relevant experience with this employer	8
T	itle	Senior Highway Eng	gineer	Years of relevant experience with other employer(s)	24
Degree(s) / Ye	ars / Specialization	ı	B.S. / 2001 / Ci	vil Engineering / University of South Florida	
Active registra	tion number / state	e / expiration date	Professional En	gineer: 56950 / Florida / 2/28/2023	
Year registered	1 2001	Discipline	Civil Engineeri	ng	
Contract role(s) / brief description	n of responsibilities	Roadway Design	gn	
Experience dat	es Experience a	nd qualifications rele	vant to the prop	oosed contract; i.e., "designed drainage", "designed g	girders",
(mm/yy-mm/y		ersection", etc. Exper	rience dates shoul	ld cover the time specified in the applicable MPR(s).	
07/14-06/19	interchange that Project goal inclination of implementation of interchanges. The interchanges, ar	provides both direct and in uded: construction of direct of AET, consideration of ex- ne recommended configura- and new proposed service in	ndirect ramping betw t connection ramps to express direct connectation included improventer that the transfer of the transfer	t of alternatives. This project includes an evaluation of a complex veen Orange Blossom Trail and the adjacent two limited access hig between freeways, an ultimate 10-lane typical section of the turnpik tions, and improvement of surface street operations with two new rements to the systems interchange, modification to two adjoining	ke,
01/16-12/17	Project Manage included the add the I-75 southbo	er/Engineer of Record res lition of a new auxiliary lan und off-ramp from one to t ut of the interchange. This	sponsible for project of the for southbound I-7 wo lanes. A unique a	WB I-4, Hillsborough County, FL - Florida DOT coordination and oversight. This two-mile roadway improvement pr 5 from south of the Bypass Canal to the southbound off-ramp and aspect of the design approach was the incorporation of this design ed for construction based on no right-of-way acquisition or impacts	widening into a
01/15-10/17	Roadway Desig roadway design, recommendation analysis and pla	as well as temporary traff ns for improvements, public ns, and construction cost of	ement Marking Eng ic control (TTC) plan c involvement, permi estimates. Both four-	FL – Florida DOT jineer of Record responsible for signing and pavement marking and s. The project included a vibration study of the bridge control hous tting, TTC plans, roadway, drainage, signing and pavement marking lane bridges have 16 spans with pre-stressed American Association and steel beams and a double-leaf trunnion bascule span.	e; design ngs



11/16-02/19	Gateway Express Improvements, Pinellas County, FL – Florida DOT Project Engineer responsible for technical oversight of temporary traffic control plans. This project will deliver limited and controlled access connections from the Bayside Bridge on the north, US 19 on the west, and the St. Pete Clearwater International Airport to I-275 general purpose and new express lanes. H&H's scope on this design build project includes contributing to FDOT's Alternative Technical Concepts (ATC) process; developing temporary traffic control (TTC) plans design for Segments 2 and 4; project tolls design (four sites) for Segments 1, 2 and 4; and structures design for four bridges in Segment 4.
12/13-01/16	Pinellas Trail from Ponce De Leon Blvd. to Woodlawn Ave. – Pinellas County Project Engineer responsible for project oversight for a study of the severe embankment erosion aggravated by Hurricane Debbie along the Pinellas Trail. The study resulted in a recommendation for stabilization with geotextiles and final plans to repair the trail.
01/14-10/17	Gandy Boulevard Bridge Approaches, Pinellas Count, FL - Florida DOT Senior Engineer responsible for QA/QC for the traffic control plans for the construction of a 2.5-mile-long segment of improved grade-separated lanes to increase capacity on the Gandy Bridge approach using design-build delivery. The project is 2.5 miles long, includes three grade separations and is being delivered substantially under budget with design-build delivery.
09/02-11/04	Thomas B. Manuel Bridge Replacement, Martin County, FL – Florida's Turnpike Enterprise Project Engineer responsible for design and preparation of traffic control and roadway plans for new bridge construction over the Okeechobee Waterway. This Florida Turnpike project was delivered as a design-build project.
03/02-09/03	CR 545 Bridge Replacement at I-4, Osceola County, FI – Florida DOT Project Engineer responsible for the design and preparation of temporary traffic control plans. This project included design services for a bridge replacement over I-4. Design included the removal of the existing two-lane bridge and the installation of a new bridge.
04/17-03/20	SR 75 (US 231) from SR 30A (US 98) to Pipeline Road, Panama City, FL – Florida DOT Senior Engineer responsible for preparation of roadway and temporary traffic control plans. The project consists of providing design services for the single point urban interchange (SPUI) at SR 77 over US 231 and CSX RR improvement project. Work includes roadway and drainage design of the intersection, lighting design for the entire project, and design for new 840-foot steel bridge.
05/14-05/20	Districtwide Interstate Program Manager (IPM) – Florida DOT Senior Engineer responsible for concept development and review of plans. This multi-discipline, indefinite quantity contract provided asneeded services to support the Florida DOT work program for all interstate highway improvements in the five-county FDOT District region. The geographic limits include over 150 miles of I-275, I-4, and I-75 and key contributing arterials.



Firm	Employed by	Hardesty & Hanover	r		
Name	e	Zineb Bennouna, PE	B	Years of relevant experience with this employer	6
Title		Roadway Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years	/ Specialization		B.S. / 2015 / Ci	vil Engineering / University of Central Florida	
Active registration	number / state	/ expiration date	Professional En	ngineer: 90952 / Florida / 2/28/2023	
Year registered	2021	Discipline	Civil Engineeri	ng	
Contract role(s) / b		n of responsibilities	Roadway Designation		
Experience dates	Experience an	nd qualifications rele	vant to the prop	posed contract; i.e., "designed drainage", "designed g	;irders",
(mm/yy-mm/yy)	"designed into	ersection", etc. Exper	ience dates shoul	ld cover the time specified in the applicable MPR(s).	
12/16-06/20	Engineering Int project includes a the adjacent two 10-lane typical so street operations	ern responsible for docum an evaluation of a complex limited access highways. ection of the turnpike, impl	enting project altern c interchange that pr Project goal included ementation of AET, rchanges. The recor	Florida's Turnpike Enterprise atives as well as the TOC evaluation for this complex interchange. ovides both direct and indirect ramping between Orange Blossom d: construction of direct connection ramps between freeways, an ul consideration of express direct connections, and improvement of simmended configuration included improvements to the systems inte service interchanges.	Trail and Itimate urface
01/16-12/17	Engineering Int addition of a new southbound off-r	ern responsible for prepar auxiliary lane for southbo amp from one to two lanes terchange. This project wa	ation of roadway destund I-75 from south s. A unique aspect o	NB I-4, Hillsborough County, FL - Florida DOT sign plan sheets. This two-mile roadway improvement project include of the Bypass Canal to the southbound off-ramp and widening the f the design approach was the incorporation of this design into a long struction based on no right-of-way acquisition or impacts to Florida	I-75 ng-term
09/15-12/18	Engineering Int reconstruction ar from a two-lane i Braden River and designs, includin	ern responsible for assisting extension of 44th Avenuto extension of 44th Avenuto extension of 40th Avenutory to a four-lane divided the realignment of Morganical extensions.	ng with roadway des ue East from 45th St ded urban roadway. an Johnson Road an construction were c	aden River Segment -Manatee County Government sign and plans preparation. This project includes the design for the treet East to 44th Avenue Plaza East. The design plans include wid As part of this project, a new bridge will be designed to cross over ad Caruso Road will provide route continuity. Alternative intersection onsidered. Alternative intersection designs, including a roundabout age.	the n



07/14-12/19	I-75/SR 50 Interchange Bridge Replacement and Widening, Hernando County, FL - Florida DOT Engineering Intern provided traffic control support for the design and plan preparation services. This project widened I-75 from a four- to six-lane facility, including complete interchange reconstruction at SR 50 to a single point urban interchange. The project also included the widening and reconstruction of SR 50 to a six-lane urban typical section constructed using concrete pavement.
11/2019-present	SR 789 (Ringling Bridge) Bird Key Drive to Sarasota Harbor West PD&E and Design – Florida DOT Engineering Intern responsible for assisting with roadway design and plans preparation. H&H is providing concurrent PD&E and final design services for the Little Ringling Bridge Replacement Project for FDOT D1. The project involves a PD&E study to evaluate the potential reconstruction or rehabilitation of the SR 789 (Little Ringling) bridges in Sarasota County to address structural and operational deficiencies. The bridges cross the Coon Key Waterway and provides the only connection from downtown Sarasota to St. Armand's Key and Lido Key. The current prestressed stringer bridge is the second bridge that has existed at this location, original replaced in 1958. Several sections of the deck were replaced on the northbound bridge in 2016 along with other repair-type work throughout the years.
08/17-08/20	Sand Lake Road Interchange, Orange County, FL - Florida's Turnpike Enterprise Engineering Intern responsible for plan sheet preparations and revising corrections made by project engineers. As a subconsultant, H&H is currently preparing the temporary traffic control plans design for the construction a new interchange located on the Florida Turnpike and Sand Lake Road (SR 482) in Orange County, Florida. As part of H&H's innovative design, ramp construction will take place early to allow mainline traffic to be diverted during off peak hours while bridge reconstruction over the Turnpike is ongoing. This project also includes coordination with FDOT District 5 for the reconstruction of Sand Lake Road.
04/17-10/21	SR 75 (US 231) from SR 30A to Pipeline Road, Bay County, FL - Florida DOT Engineering Intern providing support for the roadway, drainage, and TTC design and plan preparation. This project involved the improvement design for an 840-foot steel bridge, including a single point urban interchange (SPUI) at SR 75 crossing US 231 and the CSX railroad and roadway approached. H&H also assisted with the development of a 3D model.
11/16-07/18	Beckett Bridge Replacement, Tarpon Springs, FL – Pinellas County Government Engineering Intern responsible for assisting in the design and plan preparations for roadway approaches for this project involved the historic bridge replacement with a new 360-foot single-leaf, rolling-lift, bascule bridge that carries Riverside Drive over Whitcomb Bayou and features two traffic lanes, shoulders, and a sidewalk. Project elements included relay-based control system, approximately a quarter mile of roadway, drainage, bridge architecture, and public involvement.
12/13-05/19	Homestead Extension of Florida's Turnpike (HEFT) (SR821) S of Killian Pkwy to N of Sunset Dr – Florida's Turnpike Enterprise Engineering Intern responsible for assisting with roadway and traffic control design for Kendall Drive, Sunset Drive, and the HEFT mainline. This design-build project comprises the widening of the HEFT mainline from south of Killian Parkway to just north of Sunset Drive. The project included development of express lanes, relocation of ramp tolling, and operational improvements to the Kendall Drive interchange, as well as resurfacing and other minor improvements.



Firm	Employed by	Hardesty & Hanover	r		
Nam	ne	Benjamin Bower, PI	Ξ	Years of relevant experience with this employer	5
Title	•	Engineer I		Years of relevant experience with other employer(s)	0
Degree(s) / Years	/ Specialization	l	B.S. / 2017 / Ci	vil Engineering / University of Central Florida	
Active registratio	n number / state	/ expiration date	Professional En	gineer: 92137 / Florida /	
Year registered	2021	Discipline	Civil Engineeri	ng	
Contract role(s) /	brief description	n of responsibilities	Roadway Design	gn	
Experience dates				oosed contract; i.e., "designed drainage", "designed g	irders",
(mm/yy-mm/yy)				Id cover the time specified in the applicable MPR(s). rnpike) and SR 528 (Beachline Expressway) PD&E Study – Flor	
6/17-03/21	Turnpike Enterp Engineering Int systems intercha freeways, a plan express direct co environment, ad schematic b01/1 New dir Two ne Modification to to	ern responsible for assisting with imbedded service and ultimate 10-lane expression actions, and modification acent major utilities, nearly 6-12/17asis, approximately rect systems ramps, braided we reliver interchanges on the control of the contr	ng with concept deve e movements. Projects typical section of on of service movem by interchanges, and y 249 configurations and ramps and a Collecthe Turnpike and Be- including reconfigur	elopment. H&H was prime consultant for this PD&E study for this contect goals included: construction of direct connection ramps between the Turnpike, implementation of All Electronic Tolling, consideration ents to reduce interchange weaving. Constraints included a development to maintain traffic and tolling operations during construction were analyzed. The recommended configuration includes: ector Distributor Roadway achline Expressway ation of Consulate Drive as a Diverging Diamond Interchange	omplex on of oped
01/16-12/17	Engineering Int addition of a new southbound off-r	ern responsible for assistivaxiliary lane for southboamp from one to two lanesterchange. This project was	ng with design and pound I-75 from south as. A unique aspect of	olans preparation. This two-mile roadway improvement project incluing the of the Bypass Canal to the southbound off-ramp and widening the fithe design approach was the incorporation of this design into a long struction based on no right-of-way acquisition or impacts to Florida	I-75 ng-term
06/21-present	Engineer assist	ng with roadway analysis	and plans developm	nd Lake Rd (MP 257.25) – Florida's Turnpike Enterprise ent. H&H is prime consultant for this complex 4-level interchange in ems ramps, braided ramps, a relocation of SR 528, and modification	



	adjoining interchanges, including a Diverging Diamond interchange on the first level. As part of the design development, the design team worked closely with Turnpike traffic engineers to refine the design to include: • An additional southbound Collector Distributor Road to relocate weaving from the mainline • Reconfiguration of a low-volume ramp to economize the design • Development of a 3-project phasing plan to deliver incremental improvements as needed with packaging less \$200 million, In addition to managing the design of the project, H&H is responsible for roadway, bridge, drainage signing and pavement markings, and toll design, which includes six new All Electronic Tolling Sites
05/21-present	46th Avenue N Sidewalk Design – Pinellas County Engineering Intern responsible for assisting with roadway design and plans preparation. This project consists of reconstruction of the existing roadway, extension of the existing box culvert in both directions, construction of ADA compliant sidewalks, curb ramps and driveways on both sides of road and incidental work along 46th Avenue North, from West of Drainage Outfall along 55th Street North right-of-way corridor to 49th Street North (a length of approximately 0.5 miles). H&H is responsible for roadway/sidewalk design, structural design, traffic control, signing and pavement marking.
02/14-02/17	SR 968/SW 1st Street Bridge at Miami River – Florida DOT Engineering Intern responsible for assisting with roadway approaches and temporary traffic control (TTC) design. SR 968 is an Urban Minor Arterial. This bridge replacement project is along the SW 1st Street corridor from SW 6th Avenue to SW 2nd Avenue. The existing four-lane, one-way bridge was replaced with a new three-lane, one-way bridge, and included roadway improvements east and west of the bridge, bike lanes, sidewalks, and signing and pavement markings. The roadway east and west of the bridge was reconstructed to provide an urban roadway section with a revised profile using new curb, three through lanes, an eight-foot parking lane along both sides, and variable width sidewalks against the back of curb on both sides of the road. This project was located in constrained right-of-way conditions where there could not be impacts to adjacent properties.
11/16-02/19	Gateway Expressway Improvements Design-Build – Florida DOT Engineering Intern responsible for assisting in the development of the preliminary design to this improvement project. For this design-build project H&H is developing TCPs for Segments 2 and 4; TCP coordination among Segments 1 through 4; tolls design for Segments 1, 2, and 4; and structure design for four bridges in Segment 4.
10/19-present	27th Street East – Manatee County Engineering Intern responsible for assisting with roadway design and plans preparation, including signing and pavement marking. This project proposes improvements to 27th Street East between 26th Avenue East and 38th Avenue East along this urban collector by way of pedestrian and bicycle facilities, roadway improvements, turn lanes, lighting, drainage, and signalization improvements.



Firm	Employed by	l by Hardesty & Hanover			
Name	e	Dalton Hunt, EI		Years of relevant experience with this employer	1
Title		Civil Designer		Years of relevant experience with other employer(s)	1
Degree(s) / Years	/ Specialization		B.S. / 2021 / Ci	vil Engineering / Louisiana State University	
Active registration	number / state	/ expiration date	Engineer In Tra	ining: 0035118 / Louisiana / 09/30/2024	
Year registered	2022	Discipline	Civil Engineeri	ng	
Contract role(s) / b	prief description	n of responsibilities	Roadway Desig	gn	
Experience dates (mm/yy–mm/yy)				osed contract; <i>i.e.</i> , "designed drainage", "designed g d cover the time specified in the applicable MPR(s).	irders",
03/22-present	I-10 & I-12 College Drive Flyover Ramp Design- Build - LADOTD Engineer Intern for design and construction quality control/quality assurance for this flyover ramp design-build project which is located at the I-10 West exit to College Drive, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Responsibilities include the development and implementation of Comprehensive Quality Plan to ensure the design and construction conforms to all specified requirements. H&H will develop, maintain, and update Contractor Quality Management Plan and provide qualified Inspectors, material sampling, testing, independent testing labs to ensure contractors and off-site fabrication facilities meet project specifications.				ity bilities ill ctors,
04/22-present	Engineer Intern were designed a	•	ation and considerat paration of the overh	tion of current sidewalk features of Robert Blvd. in Slidell Louisiana haul of sidewalks and adding of ADA compliant handicap ramps and	
02/22-present	Engineer Intern replacement of the National Registe connecting roads the connecting ro	for the bridge assessmen ne Almonaster Avenue Bri r of Historic Places bridge s were required to return the pad including all drainages	t, complete rehabilitadge and a new conn revealed that improvants bridge to its full opstructures. H&H also	ctor Road, New Orleans, LA – Port of New Orleans ative engineering design, and road design services required for the ector road. H&H's 2019 assessment of the circa-1920, eligible for vements to the electrical and mechanical systems, superstructure, a perating capability. The road design services included a new alignment of developed a hydraulic study and a site plan that included several vironmental, geotechnical, and pavement design.	the and the ment for



	Firm I	Employed by	Hardesty & Hanover	•			
35	Name		Linh Kim, EI		Years of relevant experience with this employer	2	
	Title		Civil Designer		Years of relevant experience with other employer(s)	4	
Degree(s) /	Years /	Specialization		B.S. / 2017 / Ci	vil Engineering / University of New Orleans		
Active regis	stration	number / state	/ expiration date	Engineer in Tra	ining: 0033538 / Louisiana / 3/31/2024		
Year registe	ered	2017	Discipline	Civil Engineeri	ng		
Contract rol			n of responsibilities	Roadway Design			
Experience	dates	Experience ar	nd qualifications rele	vant to the prop	osed contract; i.e., "designed drainage", "designed g	irders",	
(mm/yy-mi					d cover the time specified in the applicable MPR(s).		
					ctor Road, New Orleans, LA – Port of New Orleans		
					ative engineering design, and road design services required for the		
00/00		replacement of the Almonaster Avenue Bridge and a new connector road. H&H's 2019 assessment of the circa-1920, eligible for the					
08/20-pres	sent	National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the					
		connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for					
		the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.					
			ge Drive Flyover Ramp [
						cated at	
		Engineer Intern for design and construction quality control/quality assurance for this flyover ramp design-build project which is located at the I-10 West exit to College Drive, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality					
08/20-pres		Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Responsibilities					
		include the development and implementation of Comprehensive Quality Plan to ensure the design and construction conforms to all					
		specified requirements. H&H will also develop, maintain, and update Contractor Quality Management Plan and provide all necessary					
		qualified Inspectors, material sampling, testing, independent testing labs to ensure contractors meet project specifications.					
		Sidewalk Improvements to Conform to ADA Guidelines – LA DOTD					
		Engineer Intern for various design services including preliminary plans, final plans, construction engineering, project proposal plans, and					
		inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines. The project begins at the intersection of LA 1091 (Robert					
11/21-present	sent				Slidell, Louisiana, then continues North along LA 1091 for 2.0+/- r		
				•	Club Boulevard. The survey will extend along all major side roads providing various design services including preliminary plans, fir		
					n for LADOTD Sidewalk Improvements to Conform to ADA Guidelir		
			g, project propoddi	piano, ana mopodio	Tion 2. 15 o 15 old off and improvements to como in to his A odidoni	.00.	



Firm	Employed by	Hardesty & Hanover	:			
Name	Name Jorda			Years of relevant experience with this employer	5	
Title		Designer		Years of relevant experience with other employer(s)	0	
Degree(s) / Years	/ Specialization		B.S. / 2015 / Ci	B.S. / 2015 / Civil Engineering / Widener University		
Active registration	number / state	/ expiration date				
Year registered		Discipline	Civil Engineering	ng		
Contract role(s) / b	orief description	n of responsibilities	Roadway Desig	gner		
Experience dates	Experience an	nd qualifications rele	vant to the prop	posed contract; i.e., "designed drainage", "designed g	girders",	
(mm/yy-mm/yy)		ersection", etc. Exper- nurch Street Intersection		d cover the time specified in the applicable MPR(s).		
04/17-02/18	Engineer Tech during the preliminary engineering phase for an \$8 million intersection improvement project. Three new interconnected traffic signals as well as the widening of an approximately one-mile section of Route 38 and adjacent side streets will provide necessary dedicated turning lanes as well as appropriate deceleration lane lengths. Design effort includes the development of horizontal and vertical geometrics including the 'best-fitting' of new Route 38 baseline to minimize right-of-way impacts. Traffic control and staging plans will be developed and will include a temporary traffic signal. Drainage and utility designs will also be prepared for the project.					
06/18-02/20	SR-710/Beeline Highway Interchanges from Northlake to Blue Heron Boulevards - Florida DOT Engineer Tech for developing engineering design plans for the expansion and reconstruction of a three-mile divided suburban highway segment, increasing from four to six lanes in each direction, incorporating highway widening improvements along the Turnpike and total replacement of the Turnpike Bridge over SR-710.					
06/16-07/18	ADA Central, Contract 1 - New Jersey DOT Engineer Tech for preliminary engineering for the bridge replacement of Route 42 Bridges over Blackwood Railroad Trail. The PPA is to replace the existing bridges with a precast arch system and retaining walls while maintaining traffic in each direction as well as address roadway deficiencies.					
05/15-02/17	CR 537 Corridor Improvements – Monmouth Count Engineer Tech for preliminary engineering phase for improvements to County Route 537 Corridor between Sentinel Road and US Route 9. The project includes the widening of the CR 537 roadway throughout the corridor and the installation of upgraded traffic signals to improve overall operation and safety.					



Firm	Employed by	Hardesty & Hanover	r			
Nam	e	Joseph Lee Adams, PE		Years of relevant experience with this employer	12	
Title		Senior Highway Eng	gineer	Years of relevant experience with other employer(s)	13	
Degree(s) / Years	/ Specialization		BS / 1995/ High	nway Engineer		
Active registration	number / state	/ expiration date	Professional En	gineer: 41739 / LA / 9/30/2023		
Year registered	2017	Discipline	Civil Engineeri	ng		
Contract role(s) /	orief description	n of responsibilities	Roadway Drai	nage		
Experience dates	Experience ar	nd qualifications relev	vant to the propo	osed contract; i.e., "designed drainage", "designed gir	ders",	
(mm/yy-mm/yy)				d cover the time specified in the applicable MPR(s).		
09/16-present	Route 38 & Church Street Intersection Improvements – New Jersey DOT Project Engineer and Lead Design Engineer for hydrology and bridge hydraulics, and stormwater management evaluation. Performed watershed hydrologic analysis for South Branch of the Pennsauken Creek. Performed the evaluation of 11 stormwater management collection systems and designed CMP removal/rehabilitation improvements for each. Evaluated outfall stability, designed roadside swale improvements, conduit outlet protection and ensured gutter spread requirements were satisfied for maintenance of roadway safety. Project involves preliminary engineering of significant intersection capacity improvements for a five-approach arterial and land surface highway intersection adjacent to a fluvial waterway with bridge replacement, widening, and traffic signal upgrades.					
12/12 – 0/13	Rumson – Seabright Bridge Over Shrewsbury River, Monmouth County, NJ – North Jersey Transportation Planning Authority Hydraulics & Hydrology Engineer responsible for evaluating scour vulnerability for the existing Rumson Road Bridge S-32 and several replacement alternatives during the Local Concept Development Phase. Prepared cost estimates for scour countermeasure alternatives and performed field condition inspection of bridges and culverts. Performed hydraulic vulnerability analysis per NJDOT guidance and developed hydraulic modeling per FHWA's HEC-25 guidance. During Preliminary Design, responsible for assessing storm water management NJDEP regulatory requirements, evaluating existing system capacity, and designing stormwater system improvements for the Preliminary Engineering Phase of work. Prepared final design stormwater system improvements and prepared the final bridge hydraulics analysis, including modeling tidal hydraulic conditions during the stages of construction, and supported the engineering effort necessary for NJDEP Waterfront Development, USCG, and USACE permitting.					
05/17 – 12/20	Route 25A Bridge Over Brackett Brook, Grafton County, NH – New Hampshire DOT Supervising Hydraulic Engineer for the rehabilitation or replacement of this NHDOT Red Listed bridge. Responsible for supervising the hydrologic and hydraulic analysis necessary to define the floodplain, floodway, and existing conditions; determine design loads, scour depths; and provide quality control. The two-span concrete deck bridge was in poor condition and was considered scour critical during floods. Scope of work included an engineering feasibility study and report detailing type, span, and location (TS&L); preliminary and final design; permitting; and construction support services.					

Hardesty &Hanover

10/17-10/18	Rehabilitation of Route 202 Bridge over Housatonic River, Litchfield County, CT – Connecticut DOT Lead Hydraulic Engineer for the rehabilitation of the Connecticut DOT Route 202 over Housatonic River. The bridge (#00901) is a single span simply supported Pratt through truss variant carrying two lanes of traffic over the Housatonic River. This steel truss bridge was constructed in 1953 and is comprised of a combination rolled and built-up truss members framed into riveted gusset plates. The site is subject to flood flows that carry woody debris and inundate the span. Mr. Adams assessed the debris loading risk, modeled design flows, and estimated lateral hydraulic forces on the superstructure to assist the structural design team with bridge seat structural rehabilitation design.
02/14 – 08/16	Jersey Avenue over Mill Creek, Jersey City, NJ – NJ Turnpike Authority Hydraulic Engineer responsible for evaluating scour conditions, determining wave height and wave force on superstructure, designing stormwater management improvements for environmental compliance, and design standards. Project involves design of a new single span structure over a tidally influenced tributary of the Upper Hudson Bay, subject to extreme coastal storm conditions. Coastal conditions were evaluated according to FHWA's HEC-25 and HEC-18. Stream stability evaluation performed per HEC-20 guidance. Scour countermeasures designed for wave attack using HEC-23. Hydrologic modeling using TR-55 procedures in HEC-HMS, water surface profiles modeled in HEC-RAS for both design purposes and NJDEP Flood Hazard Area permitting.
07/16-08/18	Route 31 over Peter's Brook, Hunterdon County, NJ – New Jersey DOT Hydraulic Engineer responsible for the hydraulic analysis related to final design engineering services for the superstructure replacement of a 42-foot single span bridge on Route 31 in East Amwell, Hunterdon County, NJ. The bridge crossing is located along a rural but heavily travelled two-lane highway over a small, steep, boulder strewn cut. Extreme event design flows inundate low chord and therefore require hydraulic force estimation for bridge lateral force restraint design. Construction utilized accelerated bridge construction techniques over three to four weekend closures. Mr. Adams was also responsible for soil erosion and sediment control design and permitting which included stream diversions and dewatering operations.
05/16 – 06/20	Bridge Street Bridge over Passaic River, Newark & Harrison, NJ – North Jersey Transportation Planning & Authority Hydraulics & Hydrology Team Leader responsible for evaluating stream stability and coastal site conditions for the existing bridge and replacement alternatives for the federally funded Local Concept Development (LCD) phase for major rehabilitation or replacement of this deteriorating swing span bridge. Mr. Adams also evaluated stormwater management system operation, capacity impacts, and environmental permitting implications for same.
04/16-10/16	Moravia Road Evaluation – Maryland Transportation Authority (MDTA) Project Engineer responsible for investigation/evaluation of the site's substandard highway and safety features. MDTA is assuming maintenance responsibilities from the City of Baltimore for approximately 2.8 miles of interchange roadway on Moravia Road at Pulaski Highway and I-895. Hardesty & Hanover (H&H) inspected the conditions of the site focusing on the major highway infrastructure features. These features include: Geometry, Stormwater Management, Roadside Safety, Highway Lighting, Traffic Signals, Pavement Conditions, and Signing & Striping. Mr. Adams assembled and guided the investigatory design team in the preparation of a report that documents and presents the findings from the field assessment and provides cost estimates for the identified improvements. The report provides data for the MTDA to prioritize, plan, and program necessary improvements for the site.



Firm		Employed by	Hardesty & Hanover	•			
	Name	e	John Witthohn, PE, CME, CFM		Years of relevant experience with this employer	5	
	Title		Highway Engineer		Years of relevant experience with other employer(s)	13	
Degree(s) /	Years /	/ Specialization		BS / 2003 / Civil Engineer			
			/ expiration date	Professional Engineer: 41575 / LA / 9/30/2023			
Year registe		2017	Discipline	Civil Engineering			
Contract rol	le(s) / t		n of responsibilities	Roadway Drainage			
Experience		1	±	1 1	osed contract; i.e., "designed drainage", "designed gir	ders",	
(mm/yy-mi	m/yy)	"designed inte	ersection", etc. Exper	ience dates shoul	d cover the time specified in the applicable MPR(s).		
07/16-pres	sent	Route 38 & Church Street Intersection Improvements – New Jersey DOT Hydraulic Engineer for hydrology and bridge hydraulics, and stormwater management evaluation. Performed watershed hydrologic analysis for South Branch of the Pennsauken Creek. Performed the evaluation of 11 stormwater management collection systems and designed CMP removal/rehabilitation improvements for each. Evaluated outfall stability, designed roadside swale improvements, conduit outlet protection and ensured gutter spread requirements were satisfied for maintenance of roadway safety. Project involves preliminary engineering of significant intersection capacity improvements for a five-approach arterial and land surface highway intersection adjacent to a fluvial waterway with bridge replacement, widening, and traffic signal upgrades.					
05/16-pres	sent	CR 537 Corridor Improvement, Freehold, NJ – New Jersey DOT Hydraulic Engineer for preliminary engineering for improvements to County Route 537 Corridor between Sentinel Road and US Route 9. The project includes widening of CR 537 roadway and upgrades to the existing storm sewer systems to provide added capacity and eliminate existing gutter drainage issues. Existing and proposed conditions stormwater runoff analysis was performed for six existing pipe networks in the 2.4 miles of roadway improvements, including 230 acres of offsite urban land draining directly to the county-owned pipe networks. New storm sewer pipes, inlets, and stormwater management BMPs were designed throughout the project corridor to meet NJDOT and County requirements, and the NJ Stormwater Rules found in N.J.A.C. 7:8. Final Design Phase is anticipated to begin in early 2019.					
12/18-pres	ent	Route 179 Bridge Replacement over Back Brook, Hunterdon County, NJ – New Jersey DOT Hydraulic Engineer for the Conceptual Design of the replacement of Route 179 Bridge over Back Brook. Responsible for hydrologic and hydraulic analysis of existing and proposed bridge hydraulics, and the design of a wider bridge opening to provide natural stream banks and terrestrial species passage in compliance with NJDEP Flood Hazard Area rules on threatened and endangered species in fragmented habitat, in accordance with NJAC 7:13.					



05/17-12/20	Route 25A Bridge Over Brackett Brook, Grafton County, NH – New Hampshire DOT Hydraulic Engineer for the preliminary design of the replacement of Rt 25A Bridge over Brackett Brook. Responsible for hydrologic and hydraulic analysis of existing 45°skewed bridge and two proposed bridge spans alternatives in accordance with NHDOT Bridge Design Manual; the design of a wider bridge opening in compliance with NHDES Stream Crossing Guidelines for wildlife continuity and terrestrial species passage; and scour analysis and countermeasure design on the selected alternative. Also prepared the hydraulic sections of the Rehabilitation Study Report (RSR) and the Type Size & Location (TSL) Study Report, currently under review by NHDOT.
07/15-07/18	NJ Route 17, Sprout Brook Culvert Replacement, Paramus, NJ – New Jersey DOT Hydraulic Engineer responsible for Preliminary Engineering Phase and Final Design Phase of hydrologic and hydraulic analysis of existing and proposed drainage conditions of this bridge replacement and highway widening project, and the design of the proposed stormwater management system. The project involves replacing a pair of three-span, fixed bridges conveying the NB and SB freeways over the former railroad ROW, with a single tunnel structure, in accordance with NJDOT and NJDEP requirements.
02/14-08/16	NJ Route 42 Bridges over Blackwood Railroad Trail, Camden County – New Jersey DOT Hydraulic Engineer responsible for evaluating scour conditions, determining wave height and wave force on superstructure, designing stormwater management improvements for environmental compliance, and design standards. Project involves design of a new single span structure over a tidally influenced tributary of the Upper Hudson Bay, subject to extreme coastal storm conditions. Coastal conditions evaluated according to FHWA's HEC-25 and HEC-18. Stormwater management system and water quality structure improvements designed according to State, local and Turnpike Authority design standards. Two hydrodynamic separator style MTDs were proposed to achieve water quality compliance. Coastal conditions were evaluated according to FHWA's HEC-25 and HEC-18. Stream stability evaluation performed per HEC-20 guidance. Scour countermeasures designed for wave attack using HEC-23. Riverine design flows estimated using TR-55 procedures in HEC-HMS (replaces HEC-1), water surface profiles modeled in HEC-RAS (current HEC-2) for both design purposes and NJDEP Flood Hazard control compliance. Design process included highway storm water drainage spread calculations to determine proper inlet spacing. As part of the Storm Water Management Plan & Report, a low impact development checklist documented alternate Best Management Practices (BMPs).
05/14-06/15	Broadacres Drive Culvert Replacement, Camden County, NJ – Confidential owner Hydraulic Engineer responsible for design replacement of twin 63"x87" CMPA below municipal roadway with pecast box culvert, downstream spillway structure, and stream bank armoring. Performed initial inspection and assessment, developed proposal, and served as project manager during implementation of contract for engineering and design services. Performed all hydraulic analysis and design calculations, development of constructions plans and specifications for municipal, NJEIT, and NJDEP approval. Prepared Flood Hazard Area permit, reports, and plans for NJDEP approval.



	Firm Employed by	Hardesty & Hanover	er -				
	Name	Seth Resnick, PE		Years of relevant experience with this employer	4		
	Title	Highway Engineer		Years of relevant experience with other employer(s)	3		
Degree(s) /	Years / Specialization		BS / 2015/ Civi	BS / 2015/ Civil Engineering			
Active regis	stration number / state	/ expiration date	Professional Engineer: 24GE05708400 / NJ / 4/30/2024				
Year registe	ered 2021	Discipline	Civil Engineering	ng			
Contract rol	e(s) / brief description		Roadway Drai	Ü			
Experience	-	•		osed contract; i.e., "designed drainage", "designed gir	ders",		
(mm/yy-mr	n/yy) "designed inte	ersection", etc. Exper	ience dates shoul	d cover the time specified in the applicable MPR(s).			
		eer for preliminary enginee ject includes widening of t	ering phase for impro	evements to County Route 537 Corridor between Sentinel Road an throughout the corridor and installation of upgraded traffic signals			
01/19-08/	Final Design ADA Central, Various Municipalities - New Jersey DOT Highway Engineer for needs assessment and design of ADA compliant features along numerous state highway corridors. Improvements include design of 675 new ADA ramps, associated sidewalk improvements and ADA upgrades to 50 signalized intersections including provision of PBIs and countdown pedestrian heads. All designs conform to the Federal Americans with Disabilities Act Accessibility Guidelines (ADAAG) and NJDOT Guidance for Americans with Disabilities Act Project Design Standards. Deliverables consist of a completed CED document, Design Exception Request and Preliminary Engineering Submission (plans, construction schedule and engineer's cost estimate.						
12/19-pres	ent Highway Engine Expressways for includes 12 bridg expressways, se	Hunts Point Interstate Access Improvement, Design-Build - New York State DOT Highway Engineer for this three-phase project to improve access between the Hunts Point Peninsula and the Sheridan and Bruckner Expressways for vehicular traffic and to address structural and operations deficiencies related to the existing infrastructure. The project includes 12 bridges and viaduct structures, and the site covers more than 1.5 miles of existing infrastructure, including highways, expressways, services roads and city streets, and parkland, movable bridges, and pedestrian accessways. The project required a full EIS and significant interagency coordination.					



10/19-01/20	Replacement of the Saugus Drawbridge - Massachusetts Bay Transportation Authority Highway Engineer for this project to rehabilitate or replace the Saugus Drawbridge. The H&H led team has completed the initial, conceptual design phase of the rehabilitation or replacement of Saugus River Draw Bridge for MassDOT-MBTA. Services include topographic survey; environmental investigations and planning; bridge inspection, load rating of the bridge structure, alternatives evaluation; conceptual design engineering for structures, track, civil, communications & signals; comparative cost and construction time determination estimates; and coordination with third parties.
01/16-06/18	Pavement Reconstruction for Guide Rail Replacement - STV Incorporated Highway Engineer responsible for managing team members in the completion of the Camden County, NJ pavement reconstruction project and the Burlington County, NJ guide rail replacement project. Seth was responsible for developing roadway plans, profiles, grading, storm water, traffic control, cross sections, and earthwork calculations for Federal and local transportation authorities, including South Jersey Transportation Authority (SJTA); Camden and Burlington Counties; Southeastern Pennsylvania Transportation Authority (SEPTA), Pennsylvania Department of Transportation (PennDOT), and City of Ottawa, PA. He also assisted in structural engineering calculations and reviewing structural shop drawings for submission on SEPTA's Frazier Yard. He performed quantity takeoffs, cost estimates, and field data collections for multiple projects and prepared civil plans and helped in the reconstruction design of several curb ramps to be Americans with Disabilities Act (ADA) compliant for Camden County, NJ. Additionally, Seth provided quality control procedures for roadway plans and calculations and markups and assistance in the CAD drafting phases of highway plans.
07/18-present	Route 42 Bridges over Blackwood Railroad - New Jersey DOT Highway Engineer responsible for the preliminary and final design for the replacement of the EB and WB Route 42 Bridges. The work included the development of a complicated staging scheme required to replace the bridges while keeping 3 lanes of traffic in each direction flowing on a highly congested freeway as well as complicated utility relocations. The work includes the design of a precast concrete arch constructed under the existing bridges without impacting traffic. Then, using six main MPT stages, sequencing filling, and constructing roadway over the arch in sections using temporary side walls and shifting traffic as necessary to complete the work. Work will include the preparation of the final contract documents including plans, specifications, estimate, construction staging schemes coordinating traffic, utility relocation and structural removal.
10/18-present	Final Design for the Replacement of the Gordon Street Bridge over Conrail - County of Union Highway Engineer as a part of the team selected to design a steel stringer approach span as well as provide additional services including traffic signal design and intersection lighting. The key issues on the project include site congestion with overhead utilities, maintenance of traffic and construction staging. There are also significant community involvement concerns including historic preservation and the potential relocation of the original structure.



Firm	Employed by	Hardesty & Hanover				
Nam	e	Jason W. Dunn, PE CFM, ENV SP, LEED AP		Years of relevant experience with this employer	4	
Title		Senior Drainage Eng	gineer	Years of relevant experience with other employer(s)	16	
Degree(s) / Years	/ Specialization		B.S. / 2006 / Ci	vil Engineering / University of Florida		
Active registration				gineer: 65309 / Florida / 2/28/2023		
Year registered	2006	Discipline	Civil Engineering			
Contract role(s) /		n of responsibilities	Roadway Drai			
Experience dates (mm/yy–mm/yy)				posed contract; <i>i.e.</i> , "designed drainage", "designed gld cover the time specified in the applicable MPR(s).	girders",	
0/19-02/22	SR 75 (US 231) Reconstruction, SR 30A (US 98) to South Pipeline Road, Panama City, FL – Florida DOT Drainage Engineer for the new 840-foot steel bridge on SR77 crossing US 231 and the CSX railroad. H&H is providing design service for the single point urban interchange (SPUI) at SR 77 over US 231 and CSX RR improvement project. Work includes design for road and drainage design of the intersection, lighting design for the entire project, and bridge design for new major steel structure.					
03/19-10/20	I-75 SB Off-Ramp from S of Bypass Canal to EB/WB I-4, Hillsborough County, FL – FDOT Drainage Engineer responsible for the post-design of roadway and temporary traffic control (TTC) for this two-mile roadway improvement project that included ramp widening, an extension of the ramp to provide off-line queueing, and an extended auxiliary lane on I-75. A unique aspect of the design team's approach was incorporation of operational improvements into a long-term buildout. This project was expedited for construction based on no right-of-way acquisition or impact to Florida Gas Transmission lines.					
08/20-present	Orlando South Ultimate Interchange at SR 91 (Florida's Turnpike) and SR 528 (Beachline Expressway), Orange County, FL – Florida's Turnpike Enterprise Drainage Engineer of Record responsible for the drainage design and environmental permitting. This interchange reconfiguration project includes the construction of direct connection ramps between freeways, an ultimate 10-lane typical section of the mainline turnpike, implementation of AET, consideration of express direct connections, and improvement of surface street operations. The drainage design includes 16 stormwater management facilities, floodplain analysis, cross drain extensions and storm sewer design.					
10/21-present	35 th St. & 46 th Ave. Railroad Crossing Improvements – Pinellas County Government Project Manager responsible for overseeing roadway design. This project involved developing plans and specifications and performing all other professional engineering design work for reconstruction of the 35th Street & 46th Avenue Railroad Crossings in Pinellas County.					



01/22-resent	Almonaster Avenue Bridge Rehabilitation and New Connector Road, New Orleans, LA – Port of New Orleans Lead Drainage Engineer for the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Avenue Bridge and a new connector road. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and
0 WZZ 1000 M	the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.
12/18-present	46 th Avenue N Sidewalk Design, Pinellas County, FL – Pinellas County Project Manager/Senior Engineer responsible for project management, roadway design, sidewalk alignment, and utility coordination. This project consists of reconstruction of the existing roadway, extension of the existing box culvert in both directions, construction of Americans with Disabilities Act (ADA) compliant sidewalks, curb ramps, and driveways on both sides of the road. The project also involves incidental work along 46th Avenue North, from west of drainage outfall along 55th Street to 49th Street North (a length of approximately 0.5 miles). H&H is responsible for roadway and sidewalk design, structural design, traffic control, and signing and pavement marking.
07/14-06/19	SR 9 (I-95) Overland Bridge Design-Build Replacement, Jacksonville, FL – Florida DOT Drainage Engineer responsible for design, environmental permitting, coordination, and quality control. The primary focus was the design of five stormwater management facilities and urban stormwater collection systems. This project included the reconstruction of 2.5 miles of roadway, bridges, and interchanges in Jacksonville, Florida.
05/15-06/17	Districtwide Miscellaneous Design Contract, Brevard and Lake Counties, FL – Florida DOT Drainage Engineer responsible for miscellaneous drainage engineering services driven by task orders generated from this contract. These services included hydraulic design of highway drainage and water management systems, obtaining environmental and water management district permits, performing hydraulic studies and various survey, geotechnical and video inspection services, preparing plans and compiling contract documents for the rehabilitation, and repairing the existing storm drainage structures and facilities, as well as verifying field conditions. Projects performed under this contract include Town of Melbourne Beach Flooding Evaluations, US 1 and Riverside Drive Stormwater Pond Evaluation, SR 44 and US 27 Drainage Restoration, and the Lake Harris Regional Pond Study.
03/17-11/19	I-95 at Viera Boulevard, Diverging Diamond Interchange, Brevard County, FL – Florida DOT Drainage Engineer responsible for temporary drainage design. This project will deliver limited and controlled access connections from the Bayside Bridge on the north, US 19 on the west, and the St. Pete Clearwater International Airport to I-275 general purpose and new express lanes. H&H's scope on this design-build project includes developing temporary traffic control (TTC) plans design for Segments 2 and 4; project tolls design (four sites) for Segments 1, 2 and 4; and structures design for four bridges in Segment 4.
05/16-08/17	SR 30 (US 98) Widening from CR 457 (Mack Bayou Road) to CR 30A West, Walton County, FL – Florida DOT Drainage Engineer, working as a subconsultant, responsible for the drainage design and permitting requirements. This capacity improvement project involved widening SR 30 from a four-lane roadway to a six-lane roadway. The project also included resurfacing, signalized intersection redesign, stormwater management capacity evaluation, landscaping, and Americans with Disabilities Act upgrades to pedestrian features. The addition of sidewalk and/or multi-use path was analyzed throughout the project limits on both sides of SR 30.



Firm	Firm Employed by		r				
Nam	e	Zachary Gross, PE,	CFM	Years of relevant experience with this employer	2		
Title		Drainage Engineer		Years of relevant experience with other employer(s)	12		
Degree(s) / Years	/ Specialization	l	B.S. / 2009 / Ci	vil Engineering / University of South Florida			
Active registration	number / state	/ expiration date	Professional En	gineer: 77005 / Florida / 2/28/2023			
Year registered	2014	Discipline	Civil Engineeri	ng			
Contract role(s) / l	brief description	n of responsibilities	Roadway Drai	nage			
Experience dates				osed contract; i.e., "designed drainage", "designed g	girders",		
(mm/yy-mm/yy)				d cover the time specified in the applicable MPR(s).			
				SR 528 (Beachline Exp.) PD&E Study – Florida's Turnpike Ente			
				ns preparation. H&H was prime consultant for this PD&E study for			
		•		its. Project goals included: construction of direct connection ramps			
		freeways, a planned ultimate 10-lane express typical section of the Turnpike, implementation of All Electronic Tolling, consideration of					
07/20-present		express direct connections, and modification of service movements to reduce interchange weaving. Constraints included a developed					
'	environment, adjacent major utilities, nearby interchanges, and the need to maintain traffic and tolling operations during construction. On a						
	schematic basis, approximately 249 configurations were analyzed. The recommended configuration includes new direct systems ramps,						
	braided ramps and a Collector Distributor Roadway; two new reliver interchanges on the Turnpike and Beachline Expressway; and						
	modification to two adjoining interchanges, including reconfiguration of Consulate Drive as a Diverging Diamond Interchange						
09/18-03/20	Drainage Engin model for the GC over-all interchal includes the add SR 826 overpass Additionally, the reconstruction.	eer of Record responsible GI-North ERP. This project age has been divided into ition of northbound and so s. The addition of the exponorthbound ramps from N	e for drainage design involved modificatio multiple roadway im uthbound express la ress lanes requires r W 167th St and SR 8	ami-Dade County, FL - Florida's Turnpike Enterprise and Florida and permitting, including updating the FTE portion of the global IC inside to the Golden Glades Interchange (GGI) in Miami-Dade County provement projects. This project is identified as Segment 5. The somes from the Turnpike mainline to the project limits of the I-95 rample econstruction of the ramp bridge carrying traffic to the Turnpike from 326 and the southbound ramp to NW 167th Street will require	CPR4 . The cope ps at the m I-95.		
08/16-12/19	Lead Drainage reviews and Eng	responsible for drainage di ineer of Record for 47th A	esign documentatior venue Bridge Hydra	th Ave (Miramar), Various Counties, FL – Florida's Turnpike Er and drainage plans. Prepared documents and attended meetings ulics Report. The project involved design services for the widening rd-thinking concept of adding managed lanes within an existing toll	and field of a		



	facility. The project will provide eight lanes, three general use lanes, one express lane in each direction west of NW 27th Avenue, and six lanes east to the end of the project at the SR 821/SR 91 interchange. The design also calls for the provision of a planned direct-connect express-bus stop along the northbound SW 27th Avenue exit ramp for the future Miami-Dade Transit Park and Ride lot being developed in the southwest quadrant of the interchange.
07/13-03/15	I-75 Widening from South of North Jones Loop to North of US 17, Punta Gorda, FL – Florida DOT Drainage Engineer responsible for drainage design and permitting, pond siting report, modeling, nutrient removal calculations, floodplain analysis, cross drain analysis, spread, storm sewer design, and drainage plans production. This project involves the widening of approximately four miles of I-75 from south of North Jones Loop Road to the Peace River Bridge. The project involved milling and resurfacing the existing four-lane interstate and adding two new lanes to the median. The existing bridges over North Jones Loop Road and the Seminole Gulf Railway were widened. Services included traffic analysis, roadway design, drainage design, traffic control plans, signing and pavement marking analysis, lighting design, bridge design, environmental permitting, ITS, and noise analysis.
03/15-07/19	I-75/SR 951 interchange Reconstruction, Naples, FL – Florida DOT Drainage Engineer of Record of Pond Siting Report. Responsible for permitting, design documentation and drainage plans as well as preparing documents and attending meetings and field reviews. This project involved providing design services for reconstruction of the existing diamond interchange to a partial cloverleaf interchange with two flyover connection ramps, from and to CR 951 (Collier Boulevard), to provide for the ultimate configuration. New bridges to accommodate ramp traffic will be constructed adjacent to the existing mainline bridges, as well as new bridges on SR 951 to go over Davis Boulevard will be constructed for direct interstate access. Services included roadway, drainage, bridge, signing, and pavement marking, signalization, lighting, and ITS design; environmental permitting; and noise analysis.
05/15-09/19	59th Avenue North Drainage Improvements, Pinellas County, FL – Pinellas County Government Project Manager/Drainage Engineer of Record responsible for project management tasks, drainage design documentation and permitting. Under this General Engineering Consultant for Pinellas County, work consisted of roadway, structural, traffic, and drainage safety improvement projects, as well as drainage flooding studies and permitting. The 59th Avenue North drainage improvements alleviated residential flooding in Pinellas Park, Florida by proposing a shallow swale with DBI collection system along 58th Avenue North as well as ditch grading along 59th Avenue North. The project required a major permit modification of the jointly owned Molex Pond, where runoff from the study area drains into.
01/12-07/18	US 17 Extension, Various, FL – Florida DOT Drainage Engineer responsible for drainage design and permitting, including pond design and modeling, floodplain compensation, ditch design, storm sewer design, cross drains, and plans production. This project involved design services for the new construction of approximately five miles of US 17 from the DeSoto/Hardee County Line to CR 634 (Sweetwater Road). The project involved expanding the existing two-lane facility to a four-lane divided facility with a 64-foot median. The existing bridge over Charlie Creek will be widened and used for the northbound lanes; a new southbound bridge over Charlie Creek will be constructed. The existing bridge over Charlie Creek Overflow was reconstructed and used for the northbound lanes; a new southbound bridge over Charlie Creek Overflow will be constructed. Services included roadway, drainage, bridge, and signing and pavement marking design; environmental permitting; and noise analysis.



Firm	Employed by	Hardesty & Hanover	r		
Name	e	Frederick Wetekamm, PE		Years of relevant experience with this employer	4
Title		Senior Engineer		Years of relevant experience with other employer(s)	30
Degree(s) / Years			ME / 2018 / Construction Engineering Management / University of Alabama - Birmingham BS / 1984 / Civil Engineering / Louisiana State University		
Active registration number / state / expiration date		/ expiration date	Professional Engineer: 25369 / LA / 3/31/2024 FHWA Stream /Stability and Scour at Highway Bridges for Bridge Inspectors ATSSA Traffic Control Supervisor and Flagger		
Year registered	1993	Discipline	Civil Engineerin	ng	
Contract role(s) / l	prief description	n of responsibilities	Constructabili	ty & Construction Services Support	
Experience dates	Experience ar	nd qualifications relev	vant to the propo	osed contract; i.e., "designed drainage", "designed gir	ders",
(mm/yy-mm/yy)	"designed inte	ersection", etc. Exper-	ience dates shoul	d cover the time specified in the applicable MPR(s).	
08/20-present	L H.001498.6; LA 24 and LA 16 Company Canal Vertical Lift Bridge, Bourg, LA – LA DOTD Project Engineer delivering construction engineering and inspection services for a new vertical lift bridge and operator's house. Services include daily monitoring of all construction activities; maintaining all construction field records; coordinating with DOTD, contractor, parish government, and utilities; performing field testing; maintaining records of contractual operations, pay estimates and progress reports; preparing final estimate packages; conducting construction progress meetings; construction close-out, etc.				
01/96-12/07	LADOTD Bridge Maintenance Engineer, LADOTD District 2, LA – LA DOTD Bridge Maintenance Engineer responsible for managing the program for Bridge Inspection, Operations and Maintenance Program, bridge operators, bridge repair crews, and bridge inspectors. The New Orleans Area has over 950 bridges (32 movable bridges), three tunnels, two navigation locks, and three drainage pumping stations. Responsible for creating and distributing repair work orders and coordinating the repairs, materials, equipment, labor, media information, and/or traffic control. Wrote major repair requests and generated project plans and specifications for repair projects and accident damages to the bridges for marine, vehicular, and environmental damages. Lead Coordinator for the projects with LADOTD District/statewide forces, contractors, consultants, public officials, media, property owners, and bridge maintenance supervisors. Provided construction inspection and damage assessments (DIR) for federally reimbursed repairs from hurricanes and tropical storms. Experienced with specialized traffic requirements for the bridge/tunnel couplets, District traffic and marine requirements for temporary bridge closures, and permit load crossings.			three and olic ats	



01/20-present	Almonaster Avenue Bridge Rehabilitation and New Connector Road, New Orleans, LA – Port of New Orleans Sr. Engineer for the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Avenue Bridge and a new connector road. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.
01/19-present	Lapalco Boulevard Movable Bridge over Harvey Canal, Westwego, LA – Jefferson Parish DPW Senior Bridge Engineer for the pre-design inspection, the rehabilitation and widening of the existing four-lane Lapalco Boulevard to provide a facility carrying three lanes of traffic in each direction, and the design of a new three-lane double bascule movable bridge crossing of Harvey Canal. project includes rehabilitation to the existing four-lane bridge with three lanes of traffic and a new pedestrian/bike lane. The scope of services also includes the design of a new bridge to be constructed as an independent structure immediately adjacent and north of the existing bridge with a new operator house. Improvements to bridge and roadway approaches for eastbound and westbound traffic as well as the development of a Traffic Control Plan is also included in scope.
10/19-01/20	Annual Inspection of Almonaster Railroad Bascule Bridge over the Industrial Canal, New Orleans, LA – Port of New Orleans Structural Inspection Team Leader for an annual inspection of the Almonaster Avenue Railroad Bascule, which involved a structural inspection of the fracture critical steel, primary and secondary steel members, an electrical inspection of the electrical systems and controls, and a mechanical inspection of the machinery.
11/21-present	Sidewalk Improvements to Conform to ADA Guidelines, Slidell, LA – LA DOTD Quality Control Engineer is providing various design services including preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines. The project begins at the intersection of LA 1091 (Robert Boulevard) with US 190 (Gause Boulevard) in the city limits of Slidell, Louisiana, then continues North along LA 1091 for 2.0+/- miles to a location 175' North of the intersection of LA 1091 with Country Club Boulevard. The survey will extend along all major side roads 50' from the PT of the curbing in each direction. The project includes providing various design services including preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines.
08/20-present	I-10 & I-12 College Drive Flyover Ramp Design-Build, East Baton Rouge Parish, LA – LADOTD Construction Quality Control Manager for construction of this flyover ramp design-build project which is located at the I-10 West exit to College Drive, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Responsibilities include the development and implementation of Comprehensive Quality Plan to ensure the design and construction contract specifications.



Firm	Employed by	Hardesty & Hanover	•		
Name	e	Amy Robards, PE		Years of relevant experience with this employer	4
Title		Bridge Inspection Te	eam Leader	Years of relevant experience with other employer(s)	7
Degree(s) / Years	/ Specialization		B.S. / 2012 / Ci	vil Engineering / University of New Orleans	
Active registration number / state / expiration date		/ expiration date	Professional Engineer: 41718 / Louisiana / 9/30/2023 FHWA-NHI 130055/53 Safety Inspection of In-Service Bridges / Refresher 2018 ATSSA Traffic Control Supervisor Refresher – ATSSA Flagger DOTD Certified Structural Concrete Inspector / LADOTD / 12/13/2023		
Year registered	2017	Discipline	Civil Engineering	ng	
Contract role(s) / b	orief description	n of responsibilities	NBIS Bridge In	nspection Team Leader	
Experience dates	Experience an	nd qualifications relev	vant to the propo	osed contract; i.e., "designed drainage", "designed gir	ders",
(mm/yy-mm/yy)	"designed into	ersection", etc. Exper	ience dates shoul	d cover the time specified in the applicable MPR(s).	
08/20-present	L H.001498.6; LA 24 and LA 16 Company Canal Vertical Lift Bridge, Bourg, LA – LA DOTD Project Engineer delivering construction engineering and inspection services for a new vertical lift bridge and operator's house. Services include daily monitoring of all construction activities; maintaining all construction field records; coordinating with DOTD, contractor, parish government, and utilities; performing field testing; maintaining records of contractual operations, pay estimates a progress reports; preparing final estimate packages; conducting construction progress meetings; construction close-out, etc.			and	
03/16-10/17	US 190 Mississippi River Bridge CE&I, Baton Rouge, LA – LA DOTD Structural Inspector responsible for providing construction engineering and inspection services required during the repairs to the US 190 Mississippi River Bridge approaches in Baton Rouge, Louisiana. Included in the project were assorted repairs as well as the replacement of anchor bolts at concrete footings and other steel approach spans elements.				
12/15-05/18	Huey P. Long Bridge over the Mississippi River Annual Inspections— New Orleans Public Belt Railroad and LA DOTD Structural Engineer/Inspector providing annual inspection services for the main bridge and railroad approaches of the Huey P. Long Bridge, a 2,400-foot-long cantilevered steel through truss bridge that carries a two-track railroad line and three lanes of US 90, as well as the turntable span and maintenance facilities. Inspected the primary members on the deck truss, main spans, piers, towers, and girders using standard climbing techniques and used technical access (rappelling) to inspect the piers. Contributed to the pre-inspection planning, coordination, and writing the final inspection reports.				
04/18-05/18		dge Inspections and Loa neer/Inspector provided in		e, LA – LA DOTD ation services for 19 complex bridges at various locations througho	out



03/19-10/19	Seabrook Railroad Bridge Annual / In-Depth Bridge Inspection, Port of New Orleans, LA – Port of New Orleans Structural Inspector responsible for conducting annual inspection of the Seabrook Trunnion Bascule Bridge crossing the IHNC in New Orleans, LA. This inspection included a structural inspection of the fracture critical steel, primary and secondary steel members, an electrical inspection of the electrical systems and controls, and an inspection of the mechanical systems and machinery.
10/18-11/18	SR 609 Movable Bascule Bridge over Old Fort Bayou Rehabilitation, Ocean Springs, MS - Mississippi DOT Structural Inspector for the inspection of structural elements for full rehabilitation of SR 609 bascule bridge as a task-order to the IDIQ Master Bridge Contract which includes developing standard and special bridge services statewide for MDOT. The scope of work included inspection and rehabilitation of structural, mechanical, and electrical bridge components, roadway approaches, and development of maintenance and repair plans.
08/18-05/19	William P. Lane Bridge Inspection, Chesapeake Bay, MD – Maryland Transportation Authority Structural Inspector responsible for the biannual inspection of William P. Lane Bridge. This 4.2-mile twin bridge facility carries US 50 / 301 across the Chesapeake Bay. Scope included the hands-on inspection of the three-span suspension span and nine spans of suspended deck truss on the eastbound bridge. Additionally, performed audit inspection of the three-span through truss. Inspected all parts of the deck, substructure, and superstructure including suspension cables, suspender ropes, rocker links and anchorages. Findings and recommendations were input into the owner's asset management system.
12/18-05/19	Thomas J. Hatem Memorial Bridge, Harford County, MD – Maryland Transportation Authority Structural Inspector responsible for the biannual inspection of the Thomas J. Hatem Memorial Bridge. Performed a quality control inspection consisting of the hands-on inspection of 10% of this 10,362-foot-long bridge. Structure is comprised of multiple deck and through-truss configurations, as well as beam/girder spans and floor beam/stringer systems. Coordinated with multiple inspection teams and access vendors simultaneously operating on the bridge. The structure was accessed using bucket trucks, under-bridge inspection vehicles, manlifts and rigging.
08/20-present	I-10 & I-12 College Drive Flyover Ramp Design- Build - LADOTD Inspection Team Leader for construction quality control/quality assurance for this flyover ramp design-build project which is located at the I-10 West exit to College Drive, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Responsibilities include the development and implementation of Comprehensive Quality Plan to ensure the design and construction conforms to all specified requirements. H&H will also develop, maintain, and update Contractor Quality Management Plan and provide all necessary qualified Inspectors, material sampling, testing, independent testing labs to ensure contractors and off-site fabrication facilities meet project specifications.



	Firm Employed by		Hardesty & Hanover	•		
(25)	Name		Lance Resendez, El	[Years of relevant experience with this employer	1
	Title		Civil Designer		Years of relevant experience with other employer(s)	2
Degree(s) /	Years / S	Specialization		B.S. / 2021 / Ci	vil Engineering / Louisiana State University	
Active regis	stration n	umber / state	/ expiration date	Engineer-in-tra	ining: 34896/ Louisiana / 9/30/2023	
Year registe	ered	2021	Discipline	Civil Engineeri	ng	
Contract rol	le(s) / bri	ef description	of responsibilities	Civil Designer		
Experience	dates E	Experience ar	nd qualifications relev	vant to the propo	osed contract; i.e., "designed drainage", "designed gir	ders",
(mm/yy-mr					d cover the time specified in the applicable MPR(s).	
07/22-present lift bridge and operator's house. The sco corridor by realigning approximately 405 During the construction of the new vertice		providing contract administerator's house. The scope ning approximately 405 feruction of the new vertical engineering inspection se	stration and construct of the project include et of L A 316 to the lift bridge and opera revices typically perfo	ction engineering inspection for a newly designed 100-foot-long vertles improving the safety and vehicular movements within the project west to avoid conflict with the new bridge structure and approach stor house, Mr. Resendez is providing construction contract administrated by the DOTO Project Engineer and their staff.	ect slabs.	
04/22-07/2	/22 E	Lakeview North Group C (RR085) – Sewerage and Water Board New Orleans Engineer Intern contributed to the project as a construction inspector. The project consisted of street paving, sidewalks, accessible ramps, driveways, drainage structures, drainage point repairs, and water line replacement within a 38-block range (Robert E Lee to Filmore and West End to Orleans).				
01/22-04/2	22 d T	Octavia Street Project – Department of Public Works, New Orleans Engineer Intern contributed as a construction inspector for the project consisting of the reconstruction of all utilities, the roadway, driveways, and sidewalks for the blocks of Octavia St. from 2300 block to 2900 block. The project is a total footage of about 2400 feet. The project had many characteristics to it from air spading for trees to Type C Adjustments for the catch basins. Mr. Resendez oversav multiple crews daily.) feet.	
10/21-01/2	22 E	Lafitte Greenway Project – Sewerage and Water Board of New Orleans Engineer Intern contributed construction inspection for the destruction and rebuild of a pedestrian bridge on the Lafitte Greenway walking path. The project consisted of complete destruction and replacement of bridge and reconstruction of roadway on south side of Conti Street as well as the addition of adding replacement drains in the area.			•	



Firm employed by	Civil Design & Construction, Inc. (CD&C	<u>(*)</u>		
Name	Karla E. Weston, PE	Years of relevant experience with this employer	17	
Title	President	Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Sp	ecialization	Bachelor of Science / 1999 / Civil Engineering		
Active registration nur	mber / state / expiration date	31010 / Louisiana / March 31, 2024		
Year registered	2004 Discipline	Civil Engineer		
Contract role(s) / brief	description of responsibilities	Mrs. Weston will oversee the firms' role as a sub-consuland make sure the work is completed to LADOTD stan		
Experience dates (mm/yy–mm/yy)		proposed contract; <i>i.e.</i> , "designed drainage", "designed gines should cover the time specified in the applicable MPR(
02/16-09/19	H.003047 Pecue Lane/I-10 Interchange, Baton Rouge, LA: Mrs. Weston's served as Principal-in-Charge for the firm's role as a sub-consult for the engineering design services of the West Bound on Ramp to I-10, the West Bound Off Ramp from I-10, the extension to Rieger Road and Pecue Lane Extension. She has worked to oversee the firms design, coordinate with the prime consultant and government agencies.			
12/13-10/19	H.02960 Gramercy Bridge, St. James Parish, LA: Mrs. Weston served as Principal-in-Charge for the firm's role as a subconsultant for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical Sections, and Graphical Grades for the project			
02/14-02/15	H.010620 I-49 Design Build, Lafayette, LA: Mrs. W Build Project for part of the I-49 South Corridor.	eston provided QA/QC review for the Roadway Design Plans on this I	Design-	
05/13-05/14	sub-consult for the engineering design elements of th	rish, LA: Mrs. Weston served as Principal-in-Charge for the firm's role e plans including Hydraulic Analysis and Design, Typical Sections, an oversee the firms design, coordinate with the prime consultant and		
01/06-12/12	Charge for this project that was approx. 1.25 miles in linear feet of Elm Grove Garden Dr. CD&C designed	hild-Badley Roadway, EBR Parish, LA: Mrs. Weston served as Prin length along Fairchild-Badley Road and also included approximately the upgrade to the existing narrow roadway to a typical section of 2-1 ent sidewalk. This included the design of a new sub-surface drainage	600 1'	



03/12-07/12	H.009104.5 - Sunshine Bridge Phase 2: Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C provided the Traffic Control design plans including detour maps of local road network for the repairs and widening to the Sunshine Bridge.
05/11-04/12	Red River – Jackson Street Bridge, Alexandria, LA: Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C provided the Traffic Control design plans including detour maps of local road network for the replacement of the Jackson Street Bridge over the Red River.
06/12-10/12	H.009986 – Paths 2 Progress. Jefferson, Orleans, Plaquemines, St. Bernard, and St. Tammany Parishes – Group 33 Ms. Weston served as the Principal-in-charge/Project Manager for this roadway rehabilitation project of roads in Jefferson Parish. This included field reconnaissance to determine severity of inundated roadways due to Hurricane Katrina, preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc.
12/11-04/12	H.005902.5 - Consulting Services for the Permanent Repair to Federal Aid Eligible Roads as a Result of Damage due to Hurricane Katrina in 2005. Jefferson, Orleans, Plaquemines, St. Bernard, and St. Tammany Parishes – Group 29 Ms. Weston served as the Principal-in-charge/Project Manager for this project which included survey, field reconnaissance to determine severity of inundated roadways due to Hurricane Katrina in the City of New Orleans, preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc.
01/06-07/06	Picardy Avenue Extension–City/Parish of East Baton Rouge: Mrs. Weston served as Principal-in-Charge for this extension of Picardy Avenue, connecting Bluebonnet Blvd. with I-10 West. Duties included project layout and design as wells as subsurface drainage design for approximately ½ mile.



Firm employed by			Civil Design & Con	structio	on, Inc. (CD&C)	
Name	Ralph Bu	urgess, PLS			Years of relevant experience with this employer	11
Title	Principal	Land	Surveyor		Years of relevant experience with other employer(s)	12
Degree(s) /	Years / Sp	ecializ	ation		BS / 2004 / Industrial Design & Supervision, Southeastern LA	University
Active regis	stration nur	nber /	state / expiration date	;	5040 / Louisiana – September 30, 2024	
Year registe			2010 Disci	pline	Land Surveyor	
Contract rol	le(s) / brief	descri	iption of responsibilit	ies.	Mr. Burgess will serve as the Survey Manager and meets M	IPR 4
Experience	ce dates	Expe	erience and qualification	ons rele	evant to the proposed contract; i.e., "designed drainage", "designed	ed girders",
(mm/yy–1 07/20-0					erience dates should cover the time specified in the applicable M ver Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge, East E	
01/18-01/20		 Parish: Mr. Burgess was the Survey Manager for this project. CD&C as a sub-consultant on this project was responsible for topographic surveying the LA 67 and LA 19 sites of the Comite River Diversion project. This included merging of data from a previous survey on one portion of the site and field verifications of that data. The topographic data for this project was collected traditionally. H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA: Burgess was the surveying Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton 				
Rouge Parish beginning at the start of project along LA 415 including work on		start of th vork on T	he project limits to a point just before the approach of the I-10 Bridge and the ributaries of the Intercoastal Canal. This work included using 3D Scanning for hing every 500' for control verification and incorporation of the Mobile Lidar	e limits of the the bridge at		
Duties included meeting with LADOTD		ADOTD 8	 Anger I-10, Ascension Parish, LA: Mr. Burgess served as Survey Manager for & Cardno, Inc for utility locations, coordination of crews and 3D terrestrial sorms. Special duties were merging of two state projects with project survey for final 	canning crew		
01/16-0	complete topographic survey and drainage of US 190 and Holiday Square Frontage approximately 2.9 miles to a point that is		d drainag Frontage int that is	mmany Parish, LA: Mr. Burgess served as Survey Manager for the project. Duge map for this project including all utility coordination. The survey began at the Road. From this point, the survey proceeded in a northerly direction along 700 feet South of Intersection of US 190 and E. Boston St. in Covington, LA. I utilized 3D Terrestrial Scanning for the main route.	e intersection g US 190 for	



10/15-12/18	H.003184.5 I-10 Texas State Line –East of Coone Gully, Calcasieu Parish, LA: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD, coordination of traditional crews and 3D terrestrial scanning crew, coordination of utility companies on the project, review and verification of drainage crossing I10, merging of existing topographic survey of bridges from LADOTD and final review of all survey data for submittals.
08/16-12/17	H.011235 I-49 South at Verot School Road, Lafayette, LA: Mr. Burgess served as the Survey Manager for the project. Duties included meeting with LADOTD, and all consultants on the team, coordination of both traditional crews and 3D terrestrial scanning crew, coordination of survey crews with Cardno, Inc, utility locations on the project, met and review right of entry with landowners for project, review of drainage map, merging of existing topographic survey of the I-49 Connector project from LADOTD with current survey of project, review of apparent right of way mapping for prime consultant, and final review of all survey data.
07/14-10/15	H.011088.5 I-110 North Street to Plank Road, EBR Parish, LA: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD, coordination of traditional crews and 3D terrestrial scanning crew, review, and verification of drainage map, merging and final review of all survey data for submittals. Other special duties were coordinating with LADOTD District 61 for a rolling lane closure for location of drainage located in the interior of the project along the existing crash wall. Also, coordination with LADOTD Records and EBR City Parish regarding the research of all drainage structures that enter and leave the project area.
04/17-07/17	H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA: Mr. Burgess served as Survey Manager on this project which included a complete topographic survey, utility coordination, channel cross-sections and the scanning of the existing vertical lift bridge for the design of its repairs/replacement. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning and hydrographic surveying.
03/14-06/14	H.008369 Cleo Road Roundabout, St. Tammany Parish, LA: Mr. Burgess served as the project manager for the project. CD&C was responsible for topographic survey from approximately 2400 ft. NW of intersection of I-59 and US Hwy 1090 and ended approximately 1000 ft. NW of intersection of I-59 and US Hwy 1090. The survey included 500 ft. of Cleo Road and 175 ft. of Ave D.
05/13-07/13	H.009288 LA 1 Railroad Bridge at DOW, West Baton Rouge, LA: Survey Manager for this project located in West Baton Rouge Parish. The intent is to create a grade separation at the intersection of LA 1 and the R/R spur for DOW. CD&C is performing all of the topographic survey for this project including utility coordination and R/R coordination and permits so that CD&C can survey the spur and parallel line.
02/14-03/17	H.010620 I-49 Design Build : Mr. Burgess managed and supervised all field work, utility coordination, and review of existing survey data for final topographic survey submittal. CD&C also produced ROW maps for the project. Mr. Burgess's duties for this portion also included title reports, review of property surveys and final submittal of final existing right of way plans.



Firm employed b	oy Civil Desig	gn & Construc	tion, Inc. (CD&C)			
Name	Chris Ballard, P	PLS	Years of relevant experience with this employer	6		
Title	Survey Project	Manager	Years of relevant experience with other employer(s)	19		
Degree(s) / Years	/ Specialization		BS / 2004 / Biological Science / Southeastern LA University	•		
Active registration date	n number / state /	expiration	5033 / Louisiana – September 30, 2024			
Year registered	2010	Discipline	Land Surveyor			
Contract role(s) /	brief description	of	Mr. Ballard will serve as the Survey Project Manager for this project and			
responsibilities.			meets MPR4.			
Experience dates	-		as relevant to the proposed contract; i.e., "designed drainage", "designed			
(mm/yy-mm/yy)			Experience dates should cover the time specified in the applicable MPR	\ /		
09/18-01/20	for this project. Rouge Parish b along LA 415 in @ LA 415 as w	H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA: Mr. Ballard is the Surveying Project Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.				
04/17-07/17	7-07/17 H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA: Mr. Ballard served as the firms Survey Project Manager on this project which included a complete topographic survey, utility coordination, channel cross sections, and the scanning of the existing vertical lift bridge for the design of its repairs/replacement. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning and hydrographic surveying.					
02/19-09/19	this project for I repairs to many	Bridge Replacements in East Feliciana Parish, Rural East Feliciana Parish, LA: Mr. Ballard is serving Survey Project Manager for this project for East Feliciana Parish Police Jury. It includes the replacement of 2 bridges which were damaged from flooding and the repairs to many rural roadways throughout the parish. These projects are being funded thru FEMA and all documentation has to be in accordance with FEMA's policies and procedures.				



0.111= 1011=	
01/17-12/17	East Baton Rouge Parish Bridges, East Baton Rouge Parish, LA: In 2017, CD&C has performed topographic surveys for at least 4
	Bridge Replacement Projects throughout East Baton Rouge Parish. Mr. Ballard served as Survey Project Manager on each of these
	projects which included cross-sectioning and tracing the channel at each location. These included bridges over Dawson Creek, Claycut
	Bayou, Copper Mill Bayou, and Cypress Bayou.
10/16-11/16	H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA: Mr. Ballard served as the Project Manager for this
	Project. Among the duties performed for the project were review of the crew work conditions, review & processing of the survey data,
	verification, and review of final submittal. CD&C completed a topographic survey which included all utilities with depths, all drainage, all
	building information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional
	information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new bridge.
	To utilize data collection of the failed bridge, 3D Terrestrial Scanning was incorporated in conjunction with traditional means to complete
	the topographic survey. Due to the nature of the project being an Emergency Bridge replacement all staff worked on this project non-
	stop until field work was completed in less than 3 weeks.
09/17-09/17	H.012650.5-1 District 62 Bridges, Livingston and Tangipahoa Parishes, LA: Mr. Ballard served as a Survey Project Manager for
	this project which included 5 bridge sites in District 62. In addition to all of the existing data for the bridge and roadway at each site, each
	channel was cross-sectioned both upstream and downstream of the bridge. These included bridges over the US 190 Bridge over Gray's
	creek, 2 bridges on LA 442 both crossing East Hog Branch, LA 1063 over the Natalbany River, and US 51 over Ponchatoula Creek.
	Several of these bridges including the US190 one was surveyed utilizing 3D Terrestrial Scanning.
10/15-12/18	H.003184.5 I-10 Texas State Line - East of Coone Gully, Calcasieu Parish, LA: Mr. Ballard served as the Survey Project Manager
	on this project which is a 6-lane widening of I-10. Duties performed on this project included the review of the survey information from
	crew, verification of project delivery schedule, processing of data and final review of submittal of project. 3D Terrestrial Scanning was
	used in conjunction with traditional means and methods for the completion of this project.
01/16-08/16	H.005733.5 US 190 Superstreet, St. Tammany Parish, LA: Mr. Ballard served as the Survey Project Manager on this project. CD&C
	provided a complete topo survey & drainage map along with utility coordination for the project. Project duties included processing of
	data, review of field notes and weeklies, & performing final punch list. This project also included work in the Abita River utilized 3D
	Terrestrial Scanning for the main route.
10/15-01/16	H.011773 Hanks Dr/Landis Drive Pedestrian Improvements, East Baton Rouge Parish, LA: Mr. Ballard served as the Survey
	Project Manager on this project that included a topographic survey and establishment of the ROW for Hanks Dr. for installation of new
	sidewalk.
06/11-09/13	260-01-0028, H.002372 LA 42 Widening and Improvements, Ascension Parish, LA: Mr. Ballard worked as a PLS on this project
	which included boundary and topography, establishing the existing ROW and acquisition of additional ROW.
07/17-12/18	H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA: Mr. Ballard served as the Survey Project Manager on this
	project that includes a complete topo survey, utility coordination and drainage, along with finish floor elevations of all buildings that fall
	within the survey limits. Project included data collection of the topography via traditional means and methods along with 3D terrestrial
	scanning.



Firm employed by Civil Design			vil Design & C	Construction, 1	Inc. (CD&C)				
Name	Philip	ip Dupree				Years of relevant experience with this employer	10		
Title	Surve	Party Chie	f			Years of relevant experience with other employer(s)	30		
Degree(s) / Yea	rs / Speciali	zation						
	`	ion number		expiration	Nationwide;	ed Survey Technician, Level III, Boundary Cert. No. 079 ATSSA Certified as Registered Flagger Ified Traffic Control Tech & Traffic Control Supervisor			
Year reg	gistered			Discipline		-			
Contrac	t role(s)	/ brief descr	ription o	of	Mr. Dupree is	s the Senior Survey Party chief who will work to oversee	e a crew as		
responsi	ibilities				well as aide in coordinating all crews with Survey PM.				
Experie	nce date	es Experie	ence and	d qualifications	s relevant to th	ne proposed contract; i.e., "designed drainage", "design	ned girders",		
(mm/yy						es should cover the time specified in the applicable MPI			
07/20-0		H.001352.5 and H.002273.5 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge, East Baton Rouge Parish Dupree was the Senior Party Chief & Field Coordinator for this project. CD&C as a sub-consultant on this project was responsible for topographic surveying the LA 67 and LA 19 sites of the Comite River Diversion project. The topographic data for this project was collect traditionally.					ble for		
01/18-0		H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA: Mr. Dupree is the Survey Party Chief for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415.							
07/17-1		H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA: Mr. Dupree is serving as Field coordinator on this project by working specifically to set the control on the job and overseeing field crews as they work to complete the topography.							
10/15-1	H.011235 I-49 South at Verot School Road, Lafayette, LA: Mr. Dupree served as Field coordinator on this project. He resurrected the original control set on the project and oversaw the checking of it. Mr. Dupree was the field coordinator with the R/R and also the SUE contractor on the project. He oversaw all field crews and ensured that the project was completed accurately and timely.								



01/16-08/16	H.005733.5 US 190 Superstreet, St. Tammany Parish, LA: Mr. Dupree served as Field coordinator on this urban roadway topography project that included 3D scanning in addition to traditional topography. He oversaw the daily progress of both traditional field crews and scan crews and completed the project accurately and on schedule.
02/14-03/17	H.010620 I-49 Design Build: Mr. Dupree served as the Senior Party Chief for this project working to collect all field data as required by the project. CD&C also produced ROW maps for the project. Mr. Dupree also was the lead Party Chief for the property surveys on this project.
10/16-11/16	H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA: Mr. Dupree served as Field coordinator on this project. CD&C completed a topographic survey which included all utilities with depths, all drainage, all building information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new bridge. To utilize data collection of the failed bridge, 3D Terrestrial Scanning was incorporated in conjunction with traditional means to complete the topographic survey.
07/14-10/15	H.010319.5 I-110 North St. to Plank Road, Baton Rouge, LA: Mr. Dupree served as Field coordinator on this heavily traveled Interstate project that included 3D scanning in addition to traditional topography. He oversaw the daily progress of both traditional field crews and scan crews and completed the project accurately and on schedule. He also coordinated with the district and state police to oversee the rolling lane closure that was required to obtain the drainage invert data.
05/13-07/13	H.009288 LA 1 Railroad Bridge at DOW, West Baton Rouge, LA: Mr. Dupree served as Senior Party Chief for this project located in West Baton Rouge Parish. The intent is to create a grade separation at the intersection of LA 1 and the R/R spur for DOW. CD&C is performing all of the topographic survey for this project including utility coordination and R/R coordination and permits so that CD&C can survey the spur and parallel line.
10/14-12/14	H.011088.5 West Prien Lake, Lake Charles, LA: Mr. Dupree served as the Senior Party Chief for this project working to collect all field data as required by the project. This project was to provide topographic survey for a new route to be constructed. Topographic survey and DTM was required along the proposed alignment including all utilities and all drainage with the survey limits.



Firm emplo	loyed by Civil Design & Construc			ction	, Inc. (CD&C)	
Name	Jacob S	acob Stoehr			Years of relevant experience with this employer	7
Title	Survey	Party (Chief		Years of relevant experience with other employer(s)	2
Degree(s) /	Years /	Special	ization			
Active regi	stration	number	/ state / expiration date	ATS	SSA TCS, TCT, Flagger	
Year regist	ered		Discipline			
Contract ro		rief des	cription of	topo	Stoehr will serve as a Survey Party Chief managing a crew to graphic data in the field in accordance with LADOTD Locations and methods.	
Experience					nt to the proposed contract; i.e., "designed drainage", "designed drainage",	
(mm/yy-m			<i>.</i>	_	nce dates should cover the time specified in the applicable M	
01/18-01/20	this project. CD&C as a sub-consultant on this project is responsible for			his proj	Id I-12, West and East Baton Rouge, LA: Mr. Stoehr served as a Survey ect is responsible for topographic surveying the portion of I-10 in West Ba just before the approach of the I-10 Bridge and the limits of the project alo	ton Rouge Parish
07/17-12/18					0, Ascension Parish, LA: Mr. Stoehr served as one of the Survey Party ographic data in the field utilizing LADOTD Field Codes.	Chiefs on this
08/16-01/18		H.011235 I-49 Verot School Road, Lafayette, LA: Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a cri in the collecting of topographic data in the field utilizing LADOTD Field Codes.				managing a crew
05/17-07/17		H.011909.5-2 Roundabout US 171 at Boone Street, Vernon Parish, LA: Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.				
01/16-08/16	l l	H.005733.5 US 190 Superstreet, St. Tammany Parish, LA: Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.				roject by
10/15-12/18	·	H.003184.5 I-10 Texas State Line East of Coone Gully: Mr. Stoehr served as one of the Survey Party Chiefs on this project by manacrew in the collecting of topographic data in the field utilizing LADOTD Field Codes.				ect by managing a
10/16-11/16		H.012728.5 LA 443 Emergency Bridge Replacement, Tangipahoa Parish, LA: Mr. Stoehr served as one of the Survey Party Chiefs or project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.				



Firm em	D&C)				
Name	Scott Bent	on		Years of experience with this firm/employer	5
Title	Senior Tec	chnician		Years of experience with other firm(s)/employer(s)	5
Degree(s	s) / Years / S	Specialization			
Active re	egistration n	umber / state / expiration date	ATSSA	Traffic Control Supervisor, Technician & Flagger	
Year reg	gistered	Discipline			
Contract	role(s) / bri	ef description of	Mr. Bei	nton serves as a Senior Technician specializing in 3D Terrestr	ial
responsil				ng, processing, and extraction.	
Experien		Experience and qualifications	relevant t	to the proposed contract; <i>i.e.</i> , "designed drainage", "designed	girders",
(mm/yy-	<u>-mm/yy)</u> 9-01/20	"designed intersection", etc.	no on I 10	and I-12, West and East Baton Rouge, LA: Mr. Benton served as a #3D	Coopping
12/10	Technician for this project. CD&C as			sultant on this project is responsible for topographic surveying the portion of the project limits to a point just before the approach of the I-10 Bridge a	of I-10 in
03/14	4-06/14	survey field data. CD&C was respor	nsible for th	lany Parish, LA: Mr. Benton served as a Senior Technician on this projecte topographic survey that began approximately 2400 ft. NW of intersection. NW of intersection of I-59 and US Hwy 1090. The survey also included 5	on of I-59 and
05/13	a technician on this project processing			It Baton Rouge , LA : Mr. Benton served as a Survey Crew Instrument Marield data. The intent is to create a grade separation at the intersection of the topographic survey for this project including utility coordination and R/R and parallel line.	LA 1 and the
02/13	survey field data. CD&C's responsibil and all office work to produce the final			ed as a Survey Crew Instrument Man and later as a technician on this projected all field work, utility coordination, review of existing survey data provided his includes merging of supplied survey from LADOTD and survey by CD&C by provided by LADOTD to produce an overall deliverable to be utilized in the	d by LADOTD C Performed
10/14	4-12/14		hic survey f	A: Mr. Benton served as Survey technician on this project processing survey and DTM was requidering with the survey limits.	



Firm	Firm Employed by		Urban Systems, Inc.					
Name	e	Alison Michel PE, PTOE, PTP, RSP1		Years of relevant experience with this employer	21			
Title		President / Transportation Engineer		Years of relevant experience with other employer(s)	3			
Degree(s) / Years	/ Specialization		BS / 1997 / C	ivil Engineering				
Active registration	number / state	/ expiration date	30261 / Louis	iiana / 03/31/2023				
Year registered	2002	Discipline	Professional I	Engineer: Civil Engineering				
Active registration	number / state	/ expiration date	1023 / Louisia	ana / 11/06/2023				
Year registered	2002	Discipline Professional		essional Traffic Operations Engineer				
Active registration	number / state	/ expiration date	626 / Louisiana / 11/20/2023					
Year registered	2017	Discipline Professional		Transportation Planner				
Active registration	number / state	/ expiration date	115 / Louisiana / 12/21/2024					
Year registered	2018	Discipline	Road Safety Professional					
Contract role(s) / l	orief description	n of responsibilities	Professional In Charge of Traffic Engineering Tasks					
Ms. Michel is Professional In Charge of Traffic Engir			ering Tasks and	d meets MPR5.				
10/03-10/20					OTD split itting.			



01/06-04/09	LA 385 and (Ryan) Street at Prien Lake Road Intersection Improvements Lake Charles, LA (LADOTD) Ms. Michel was the project manager responsible for the preparation of roadway widening and signal design plans for this LADOTD project. First a CORSIM analysis of various intersection improvement strategies was conducted to determine the optimum lane configuration and signal operations. Once the preferred conceptual layout was identified, construction documents based on LADOTD standards were prepared to add turn lanes to both Ryan Street and Prien Lake Road within limited Right of Way. In addition to the traffic signal modifications, the design included modification to drainage, reconfiguration of driveways, improving corner radii, widening concrete pavement and an asphalt overlay. Preliminary and Final plans, specifications and a cost estimate using LADOTD pay items were prepared under Ms. Michel's direction. The project was constructed successfully.
11/08-11/12	Interstate 10 at LA 44 and LA 44 at Edenborne Pkwy Traffic Signal Design Gonzales, LA (LADOTD & RPCC) Ms. Michel was the Principal in Charge responsible for the management and QA-QC of the design of the new traffic signals for the River Parish Community College (RPCC) based development. The design included interconnection between the signals and connected into LADOTD's mainline fiber network. She coordinated between the developer and the LADOTD District Traffic Engineer to obtain a permit for the construction. This included coordinating with both LADOTD Traffic Engineering Management on use of the latest TSI forms and with the LADOTD Intelligent Transportation System office regarding tying into the fiber optic communication lines along Interstate 10.
01/14-08/19	US 90 (I-49 South) Albertson's Parkway to Ambassador Caffery Design-Build Project, Lafayette Parish, LA (LADOTD) Ms. Michel was a member of the key personnel for this design-build project as the Traffic Engineer. The project included converting US 90 to a controlled access facility by converting at-grade intersections to an interchange. The bridge structure had to span the intersection and a railroad. She supervised the design and analysis and performed QA-QC for temporary and permanent signal plans, permanent signage plans, temporary traffic control plans and the Transportation Management Plan. Signal plans were prepared using the DOTDs latest TSI format. Analysis included developing design hour volumes for the design year and modeling signals in Synchro. Phasing and timing were developed for both permanent and temporary signal operation.



-0	Firm	rm Employed by		Urban Systems, Inc.					
	Name)	Nico	le Stewart, PE, PTC)E	Years of relevant experience with this employer	17		
77.33	Title		Vice Engi	President / Transponeer	ortation	Years of relevant experience with other employer(s)	2		
Degree(s) / `	Years /	Specialization	Į		BS / 2004 / Civ	vil Engineering and BS / 2004 / Physics			
Active regis	tration	number / state	/ expi	ration date	34750 / Louisi	ana / 09/30/2023			
Year registe	red	2009		Discipline	Professional E	ngineer: Civil Engineering			
Active regis	tration	number / state	/ expi	ration date	2923 / Louisia	na / 08/2023			
Year registe	red	2009		Discipline	Professional T	Professional Traffic Operation Engineer			
Contract role	e(s) / b	rief description	of re	sponsibilities	Traffic Engineering/ Design Analysis, and TMPs				
Ms. Stewar	t will l	oe responsible	for th	e Traffic Enginee	ring/Design An	alysis and TMPs for this project and meets MPR	25.		
05/09-07/1	2	Lakefront/Holy Cross Traffic Signal / ITS Signal System New Orleans, LA (City of New Orleans & LADOTD) A system engineering analyses was prepared by Ms. Stewart to determine the requirements for a self-healing fiber network between the traffic signals and video system detectors in the Lakefront and Holy Cross New Orleans neighborhoods. This project included forty-six (46) signalized intersections in two systems, Lakeview/Gentilly and the 9th Ward. Ms. Stewart prepared plans to provide connectivity to the City of New Orleans Department of Public Works (DPW) and the new Regional Traffic Management Center (RTMC). The communications system design included tie-ins to the city's Ethernet network allowing full operation of the system from City Hall. The plans and specs were designed for LADOTD who selected the contractor for the project. Ms. Stewart was also the engineer responsible for construction administration during the project. This included coordinating with the LADOTD District Construction Engineer and submitting the required reports in LADOTD format.							
09/10-08/1 and 03/12-11/1		MacArthur Interchange Signal Modification/ Signage & Striping / Traffic Control Devices Plans Harvey, LA (LADOTD) The traffic study to evaluate the existing and projected operating conditions of the lower Westbank Expressway was prepared by Ms. Stewart. In the Design Phase, Ms. Stewart designed the new traffic signals for the interchange and neighboring intersections. She prepared the striping and signage plans to accommodate the ramp changes and prepared Traffic Control Devices Plans for the various stages of construction.							



05/18-04/19	TMP for I-10: West of 108 to I-210 Interchange: Rubblize and Overlay Lake Charles, LA (LADOTD) As the lead engineer for this Traffic Management Plan, Ms. Stewart was responsible for the preparation of the safety analysis. She conducted the analysis per the guidelines set forth by LADOTD in <i>Guidelines for Crash Data Analysis</i> for this TMP in Lake Charles, LA. She conducted queue analysis to identify when lane closures would be permitted, identified the construction impact area, and reviewed crash data for more than 350 collisions. Ms. Stewart identified trends and calculated crash rates and determined that the section of I-10
01/14-08/19	that was going to be rubblized had a crash rate that was higher than the statewide average and required mitigation. US 90 (I-49 South) Albertson's Parkway to Ambassador Caffery Design-Build Project Lafayette, LA (LADOTD and Design Builder) Ms. Stewart prepared the Traffic Control Device Plans for all phases of construction. Ms. Stewart was responsible for the design of the permanent signage for the new portion of I-49 within the project limits. Traffic Control Devices and Signage plans were prepared to be in accordance with the Manual of Uniform Traffic Control Devices and the most current LADOTD standards. Throughout construction, Ms. Stewart was available to meet with contractor and visit the construction site on an as needed basis. Ms. Stewart provided timely responses to RFI's and prepared plan changes to address concerns raised in the field. She also prepared As-Built plans once the project was complete in August 2019.
02/15-06/16	Bridge Preventative Maintenance District 61 Port Allen, LA (LADOTD) Ms. Stewart was the principal in charge for Traffic Management Plans (TMP) for bridge replacement and repairs for various locations in Louisiana. This included developing various levels of TMP's based on LADOTD EDSM guidelines. Tasks included conducting capacity analysis, safety analysis, detour analysis and developing proposed mitigations where applicable. For the reconstruction of the LA 1 bridge over the Intracoastal Waterway, a detailed Level 3 TMP was prepared. For this TMP, detailed work zone impact management strategies were developed to help minimize the project's impact on mobility.



Firm	Employed by	Urban Systems, Inc.					
Nam	ie	Christine Darrah, PE		Years of relevant experience with this employer	8		
Title	,	Transportation Engineer		Years of relevant experience with other employer(s)	19		
Degree(s) / Years	/ Specialization		BS / 1994 / C	ivil Engineering			
Active registratio	n number / state	/ expiration date	25828 / Louis	siana / 09/30/2023			
Year registered	2009	Discipline	Professional I	Engineer: Civil Engineering			
Contract role(s) /	brief description	n of responsibilities	Transportati	on Engineer/ Design Analysis, and QA/QC			
Mrs. Darrah is a	Γransportation Ε	Engineer and will be respon	nsible for desig	n analysis and QA/QC for this project.			
	signal at the interinterstate ramp to Baton Rouge Pa	rsection of Pecue Lane at Reigo erminal intersection signals wer rish standards. This required cl	er Road. The signare designed per LA lose attention to de	I-10 Interchange traffic signals for the diverging diamond and the plans were prepared on the latest LADOTD TSI format. The DOTD standards and the Reiger Road signal was designed petail given the different equipment requirements and coordinations. She reviewed the opinion of probable cost.	er East		
09/14-12/14	SELA 26 Widening of Florida Ave. Canal Phase II and III New Orleans, LA (LADOTD) Ms. Darrah designed Traffic Control Devices Plans to meet US Army Corps of Engineers, LADOTD and MUTCD standar and specifications included, but were not limited to, the proper placement of temporary Traffic Control Devices (signs, ba drums, roadway markings, etc.) to facilitate traffic safely and efficiently through the traffic control zone. Haul routes were when necessary.				,		
09/15-10/18	Ms. Darrah was the with the prime contequipment for the	onsultant, LADOTD, and East B e permanent signal plans. Signa	traffic signals for thaton Rouge Parishal requirements inc	ADOTD) ne Picardy-Perkins Connector Project. In this role she worked on to design the traffic signal operation and identify locations for soluded video detection, pedestrian accommodations, and advar e 98% plans are currently under review by Baton Rouge City-P	signal nced		



06/21-10/21	MSY Entrance Road Capacity, North Terminal Louis Armstrong New Orleans International Airport, Jefferson Parish, LADOTD) Ms. Darrah prepared temporary and permanent striping and signage plans for the widening of the Southbound Airport Access Roadway, realignment of TNC Road, and widening of Northbound Airport Access Rd. As part of this project, she performed a comprehensive review of the adjacent Airport Access Rd Improvements included in the I-10/Loyola Interchange Improvement project. The proposed improvements required temporary closure of one lane of the airport roundabout, roundabout slip lane and right lane of Northbound Airport Access Rd.
09/14-08/16	LA 415 Stage 0 Corridor Study West Baton Rouge Parish, LA (LADOTD) Ms. Darrah was the team leader for the Stage 0 Corridor study to develop an alternative plan to improve mobility and safety on LA 415 in Port Allen, LA for normal conditions as well as increase the capacity for throughput during an I-10 mainline detour. The study included traffic volume collection, growth rate development, alternative development, modeling, safety analysis, Tier 1 analysis, and report preparation. VISSIM was used to model the corridor. Modeling the alternatives required base model creation, calibration, development of projected model for each alternative. She also managed the sub-consultant who prepared the geometric layouts.
08/19-01/20	Citrus Boulevard Turn Lane Harahan, LA (LADOTD) Ms. Darrah was the lead engineer and project manager for the new turn lane on Citrus Boulevard for the Amazon Distribution Facility in Harahan, Louisiana. The purpose of the project was to provide an eastbound left turn lane and reduce the existing median opening at the facility main entrance. Plans and specifications included typical sections, geometric layout, grading, and required signage and striping. Tasks included design, Auto-turn analysis, construction administration, and coordination with Jefferson Parish, utility companies, surveyors, and geotechnical engineer.
05/21-present	Complete Streets Group C- Bicycle Boulevard Orleans Parish, LA (LADOTD) The striping, signage, and wayfinding plan preparation for new Bicycle Boulevards on 15 corridors in Uptown and Downtown areas of New Orleans were prepared by Ms. Darrah. She oversaw data collection for 48-hour vehicular counts, pedestrian and cyclist counts, and radar speed studies. Ms. Darrah worked closely with the project team and City of New Orleans DPW to evaluate data collected and develop potential improvements to prioritize cyclist on the existing road network. Her final striping and signage designs provide clear, concise direction for cyclist, pedestrian, and motorist



T:	Б 1 11	TT 1	C . I						
Firm	Employed by	Urba	n Systems, Inc.						
Name	e	Matt	hew Morgan, PE		Years of relevant experience with this employer	9			
Title		Trans	sportation Engineer		Years of relevant experience with other employer(s)	0			
Degree(s) / Years	Title Transportation Engine So / Years / Specialization Registration number / state / expiration date Ristered 2022 Discipline Perole(s) / brief description of responsibilities Regan is proficient: PetraPro, TraxPro, MetroCount Poll/19 LA 46- St. Claude Bridge Bicycle Accomm Mr. Morgan developed short term and long-tee the St. Claude Bridge and over the Inner Hard which included sight distance evaluations, ide pedestrians, vehicles, and bicycles using the estimate, and the formation of a technical me		BS / 2009 / Civil Engineering						
Active registration	active registration number / state / expiration dat		ration date	47060 / Louisi	ana / 08/11/2023				
Year registered	2022		Discipline	Professional E	ngineer: Civil Engineering				
Contract role(s) / l	Contract role(s) / brief description of responsibilities			Transportation	on Engineer				
Mr. Morgan is pro	oficient: PetraPr	o, Tra	xPro, MetroCount,	AutoCAD, Syn	chro, HCS, SIDRA, VISSIM, CORSIM, Adobe suite	e.			
01/10-01/19	LA 46- St. Claude Bridge Bicycle Accommodation (Port of New Orleans & LADOTD) Mr. Morgan developed short term and long-term alternatives for safely accommodating bicyclists across the raised portion of LA 46 at the St. Claude Bridge and over the Inner Harbor Navigational Canal lift span. To accomplish this task, he conducted field observations which included sight distance evaluations, identifying existing equipment to be modified/removed, collecting classification data for pedestrians, vehicles, and bicycles using the roadway/lift span, and collecting vehicular speed data. Mr. Morgan assisted with the cost estimate, and the formation of a technical memorandum to implement these alternatives for the Port of New Orleans.								
03/21-01/22									
10/17-12/17	Mr. Morgan led th	ne data roundin	g study area. He assist	Calcasieu Pass TIA	D) A. This data collection included vehicle volume and classificatio gures representing the data, intersection analysis, deliverables				



03/16-present	I-10/Loyola Interchange Improvement IMR New Orleans, LA (LADOTD) Mr. Morgan led data collection efforts on I-10 and surrounding roadways for the I-10/Loyola Interchange improvements. He organized counting roadways and turning movements using video camera and pneumatic tubes. He also assisted in the collection of speed data using hand-held radar devices. Mr. Morgan helped review crashes associated with the project, analyze crash characteristics, and examine trends in crashes for the study years. He assisted with capacity analysis for existing and future alternative conditions using HCS, Synchro, and Vissim analysis software. Mr. Morgan helped write/QAQC reports, and appendixes based on the results of these analyses.
11/20-07/21	Manhattan Signals (Target and Gretna) (Jefferson Parish) Mr. Morgan's participation in the project included temporary and permanent signal design for changes to accommodate an additional northbound travel lane on Manhattan Blvd at the intersections of the Target Driveway and Gretna Blvd. Mr. Morgan helped with the relocation of existing traffic equipment and the addition of new equipment where needed. He helped with the development of plan sheets that would include signal timing and phasing changes as well as present the relocation of old signal equipment.
04/18-07/18	Marconi Dr Traffic Study (Orleans Parish) Mr. Morgan was a team member for a traffic study focused on increasing safety for pedestrians, cyclists, and drivers on Marconi Dr. His role was to evaluate the existing conditions on Marconi Drive including vehicular, bicycle and pedestrian traffic and to identify potential improvements. Mr. Morgan led the acquisition and documentation of traffic data for the study area. He also led the analysis of the study intersections creation of graphic representation of existing and alternative scenarios. Mr. Morgan met schedule deadlines and assisted with the generation of the report and appendix.



Firm	Employed by	Urban Systems, Inc.					
Name	e	Alex Weeks, E.I.		Years of relevant experience with this employer	1		
Title		Engineer Intern		Years of relevant experience with other employer(s)	1		
Degree(s) / Years	/ Specialization		BS / 2020 / Civ	vil Engineering			
Active registration	n number / state	/ expiration date	34593/LA/ 3/3	1/23			
Year registered	2020	Discipline	Civil Engineer	Intern			
Contract role(s) / l	brief descriptior	of responsibilities	Transportation	Engineering – Assisting P.E's			
safety studies, Trasstudies for both co	orridors and inte delines and pay US 90 (Jefferson Ms. Weeks was of Weeks reviewed Weeks also prep	nagement Plans with and varsections, and signal designates. She is proficient using at Causeway Jefferson Paron the USI team to study potentials.	without site-spection. Her signal control of the sing Highway Corish, LA (Jeffersor atial improvements that identified crash	Engineering. Her project experience so far has inceific traffic control devices plans, operational improved lesign project experience included use of LADOTD apacity Software (HCS), Synchro, SIDRA and TruTh Parish & LADOTD to the intersection of US 90 (Jefferson Hwy) at Causeway Blvd diput corrected information into the LADOTD CAT scan tool. In trends, compared the observed crash numbers of vs statewing the statement of the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the observed crash numbers of vs statewing the compared the compare	ement 's TSI raffic.		
11/21-04/22							
03/21-present	Ms. Weeks condi reports, updated	ucted safety analysis for this pr	oject corridor with a	uge, LA (MoveBr & LADOTD) a focus on pedestrian and bicycle crashes. Ms. Weeks reviewed wrote crash descriptions. Ms. Weeks also prepared section			



Firm	n Employed by	Urban	Systems, Inc.			
Nam	ne	Fadi N	Madi (Ontario) P.E	ng	Years of relevant experience with this employer	1
Title	e Transpor		portation Designer	& Analyst	Years of relevant experience with other employer(s)	10
Degree(s) / Years	s / Specialization	ì		B.App.Sc (Hor	nors) / 2011 / Civil Engineering	
Active registration number / state /		/ expir	ation date	100174071/On	tario (Canada)/ 11/30/22	
Year registered	6		Discipline	Civil Engineer	ing	
Contract role(s) /	brief description	n of resp	ponsibilities	Transportation	Engineering – Assisting P.E.'s	
Mr. Madi is a Prothe LADODTD				is proficient in S	Synchro, HCS and TruTraffic Software and complet	ed
10/21-present	Mr. Madi was a lepeak he assisted LA 39 and LA 46 background volu	ead engii I in estim in St. Be mes from	neer for a Traffic Impa lating the proposed ter ernard Parish. Mr. Mac	ct Analysis for the p minal will have incr li developed an exo conducted operatio	ew Orleans & LADOTD) proposed Port of New Orleans Terminal in Violet, Louisiana. A pease to both truck traffic and passenger vehicles on state high pel-based tool to estimate future traffic volumes and separate penal analysis using HCS software to identify when proposed parized the findings	
10/21-present	(MoveBr & LAD Mr. Madi assiste and cyclists. Pote Madi organized t applied it to exist	OTD) ed with a ential intential the collecting volun	study for this portion of ersection and signal importion of peak periods to mes to forecast No Bui	of US 190 (Florida Enprovements, sidew Jurning movement co Id volumes. Mr. Ma	ON Beck Street) - East Baton Rouge Parish, LA Blvd) that was identified as needing improved access for pedes walk connections, and transit stop improvements were consider bunts and field observations. He obtained growth rate data and di developed a methodology to re-route traffic volumes based sing HCS software and summarized the findings in a technical	red. Mr. d on the



10/21-present	Dakin Street Improvements – Jefferson Hwy to Earhart Expressway At Grade Improvements Traffic Study (Jefferson Parish & LADOTD) Mr. Madi was the lead engineer to study the impact of a proposed new off-ramp on Earhart Expressway (LA 3139) Eastbound to US 90 (Jefferson Highway) on the roadway network. Mr. Madi used output from the RPC TransCAD model to estimate traffic volumes. He was responsible for developing alternatives to mitigate adverse impacts to vehicular traffic operation and access on Jefferson Highway. Mr. Madi conducted HCS analysis of the alternatives for comparison and also evaluated the impact on safety. Mr. Madi prepared the report submittals in accordance with LADOTD TEPR guidelines. He also assisted with the design phase and collaborated between Jefferson Parish and LADOTD Traffic Engineers.
11/21-present	Jefferson Hwy @ Corporate (Intersection Improvements) (MoveBr) The traffic engineering for the Jefferson Highway at Corporate Boulevard Intersection Improvements project of extending existing and incorporating additional turning lanes, where necessary, to increase storage length and improve capacity was conducted by Mr. Madi. In addition to turning lane improvements, pedestrian facility (sidewalks, crosswalks, etc.) and driveway access enhancements were considered to improve safety, pedestrian connectivity to transit facilities, and access management. Mr. Madi is responsible for leading the technical analysis and preparation of deliverables.
11/21-02/22	Loyola University Institutional Master Plan – Traffic Impact Analysis Addendum (City of New Orleans & LADOTD) Mr. Madi conducted a traffic study as part of Loyola University's Institutional Master Plan filing with the City of New Orleans, as required by the Comprehensive Zoning Ordinance. An addendum was prepared to supplement the original Traffic Impact Analysis. Mr. Madi estimated the potential impacts of the proposed changes to the original master plan on the surrounding street network. Mr. Madi used the projected volumes from the original study, estimated trip generation and conducted HCS analysis for various scenarios and summarized the findings in a traffic report.



Firm name	Hardesty & Hanover, LLC P				Past Performance Evaluation Discipline(s)* Road				
Project name	I-10 & I-12 Co	I-10 & I-12 College Drive Flyover Ramp Design Build						Firm responsibility (prime or	
							sub?)		
Project number	H.013897		Owner's na	ame	Louisiana Department of Transportation & Develo			opment	
Project location	Baton Rouge	e, LA			Owner's Project Manager Cather			Catherin	ne Mastin
Owner's address	s, phone, email	1201 Ca	pitol Acces	s Road, Bato	n Rouge,	LA 7080	04 225.379.1652 Cath	nerine.mas	stin@la.gov
Services commenced by this firm (mm/yy) 09/20 To				Total const	otal consultant contract cost (\$1,000's)				\$ 2,500
Services completed by this firm (mm/yy) On-going Co					Cost of consultant services provided by this firm (\$1,000's)				\$ 2,000

Hardesty & Hanover is overseeing the project design and plan delivery, and construction quality control/quality assurance, for this flyover ramp design-build project, which is located in Baton Rouge, La at the I-10 West/ I-12 West junction to College Drive.

The project includes the design and construction of a new three lane I-10 West bridge, new two lane I-12 West roadway design, bridge rehabilitation of the flyover bridge from I-12 West exit to I-10 East, connecting ramps and associated roadways, and rehabilitation of the Essen Lane bridge in advance of the project.

H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Responsibilities include the development and implementation of a Comprehensive Quality Management Plan to ensure the design and construction conforms to all specified requirements.



H&H also develops, maintains, and updates the Contractor Quality Management Plan and provides all necessary Qualified Inspectors, Material Sampling and Testing, Independent Testing Labs to ensure that the contractors' work, and off-site fabrication facilities meet project specifications. H&H manages all document control to include daily diaries, collection of material certifications, NCRs, and weekly and monthly project reports.

Key members: Fred Wetekamm, PE; Babak Naghavi, PE; Amy Robards, PE; Linh Kim, EI; Dalton Hunt, EI; Angelo Pecoraro, EI

Performed in LA: 100%



Firm name	Hardesty & Han	Hardesty & Hanover, LLC Pa				Past Performance Evaluation Discipline(s)* Road			
Project name	IDIQ for Sidew	valk Impro	ovements to	Conform to		Firm responsibility (pri	Prime		
	Guidelines (Dis	Guidelines (Districts 02, 61, and 62)							
Project number	4400011199		Owner's na	ame	Louisiana Department of Transportation & Development				ment
Project location	Slidell, LA				Owner's Project Manager Brett F			Brett Bra	oham, PE
Owner's address	, phone, email	1201 Ca	pitol Access	s Rd. Baton	Rouge, LA	70802	2 985.375.0165 brett.	brabham@l	a.gov
Services commenced by this firm (mm/yy) 11/21 To				Total consu	otal consultant contract cost (\$1,000's)			\$	163
Services comple						Cost of consultant services provided by this firm (\$1,000's) \$93			

Project Background

This IDIQ is for to perform all engineering and related services to perform initial site investigation, prepare a scoping report, survey, prepare preliminary and final plans, perform traffic engineering studies, construction proposal, and construction inspection for selected sidewalk improvement and handicapped ramp projects to conform to ADA Guidelines. The majority of these projects are located in Districts 02, 61, and 62. As a part of this IDIQ, Hardesty & Hanover is currently providing these design services for a 2.1 miles long project on LA1091 from US 190 to the Country Club Drive intersection.

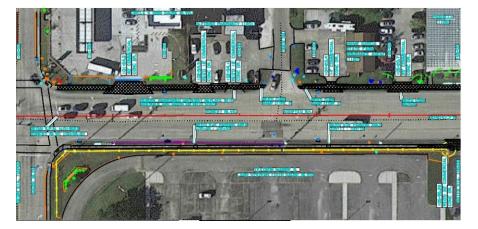
H&H Scope

The project begins at the intersection of LA 1091 (Robert Boulevard) with US 190 (Gause Boulevard) in the city limits of Slidell, Louisiana, then continues North along LA 1091 for 2.0+/- miles to a location 175' North of the intersection of LA 1091 with Country Club Boulevard. The project provides a combination of new and rehabilitated ADA compliant ramps, sidewalks, driveways, and crosswalks. The project includes over 9,000sy of new and rehabilitated sidewalks and driveways in addition to 33 new handicapped ramps, crosswalks, adjustments to manholes, etc.

Key members:

Babak Naghavi, PE; Fred Wetekamm, PE; Erik Diaz, PE; Linh Kim, EI; Dalton Hunt, EI

Performed in LA: 100%





Firm name	Hardesty & Hano	ver, LLC		Past I	st Performance Evaluation Discipline(s)* Road					
Project name	Pinellas County	Roadway	, Drainage,	Firm responsibility (prime or		Prime				
	Traffic Engineering Consulting Services sub?)									
Project number		Owner's name Pinellas Cou						ty Department of Environment & Infrastructure		
Project location	Pinellas Coun	ty, FL			Owner's Project Manager Erin La			Erin La	wson, PE	
Owner's address	, phone, email	400 S F	ort Harrison	Ave Clearw	ater, FL 3	3756 7	27-464-3176 <u>elawson</u>	@pinellas	scounty.org	
Services commenced by this firm (mm/yy) 02/11				Total consu	Total consultant contract cost (\$1,000's)				\$ 875	
Services comple	05/19	Cost of consultant services provided by this firm (\$1,000's) \$68.					\$ 685			

H&H served as a prime consultant for Pinellas County for professional engineering services for planned infrastructure improvements. Under this project, we have completed multiple Task Work Orders. Key projects are noted below.

Pinellas Trail from Ponce De Leon Blvd to Woodlawn Ave: H&H completed a Preliminary Engineering Report and analysis to study the severe embankment erosion along a portion of the Pinellas Trail. The study resulted in H&H preparing the final design plans, drainage plans, and the SWFWMD and COE permit packages. In addition, H&H is currently involved in post-design services for the construction of this project.

35th St & 46th Ave Railroad Crossing Improvements. H&H provided roadway design and plans preparation, including signing and pavement marking. This project involved developing plans and specifications and performing all other professional engineering design work for reconstruction of the 35th Street & 46th Avenue Railroad Crossings in Pinellas County.

This project illustrates H&H's capabilities for:

- IDIQ Projects
- Small Civil Projects Project Management
- Use of owner specified CADD platform
- Ability to work with a diverse group of County Project Managers

East Lake Drive (CR 77) at Hollin Creek Culvert: H&H prepared design plans for the replacement of the Hollin Creek culvert at East Lake Drive. This project also included the preparation of the Storm Water Pollution Prevention Plan and permit packages for three environmental permits, SWFWMD Notice General Permit, USACE Nationwide Permit 3, and FDEP NPDES permit. This project is currently under construction.

Key Personnel: Stephan Heimburg, PE; Jason Dunn, PE; Robert Hideck, PE; J. Webb Jones, PE



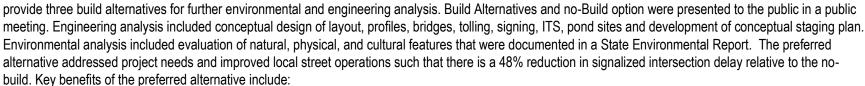
Firm name	Hardesty & Hanover, LI	.C	Past 1	Past Performance Evaluation Discipline(s)* Road				
Project name	Orlando South Ultima	ite Interchang	ge Improven	nents	Firm responsibility (pri	ime or sub?)	Prime	
Project number	C9U63	Owner's n	ame	Florida Depa	la Department of Transportation			
Project location	Orlando, FL			Owner's Project Manager Pame			agot, PE	
Owner's address	, phone, email MP 2	63 Bldg. 5315	, Ocoee, FL	34761 407.264	.3043 Pamela.Nagot@do	ot.state.fl.us		
Services comme	Total const	Total consultant contract cost (\$1,000's)			885,000			
Services comple	ted by this firm (mm/yy) 06/20	Cost of cor	nsultant service	s provided by this firm (\$1	1,000's) \$	3,354	

The Orlando South Interchange connects two toll routes Florida's Turnpike (SR 91) and the Beachline Expressway (SR 528) and provides connections to the surface streets. Originally built in 1964, both principal routes have been widened to 8-lanes. Key deficiencies of the interchange were:

- Substantial truck traffic and nearby intersections allow congestion to propagate into system
- Low speed loop ramps are a safety concern
- Need to replace Beachline bridges over the Turnpike for 10-lane expansion
- Existing double trumpet configuration has less desirable weaving operations
- Lack of direct freeway connections for eight movements

Hardesty & Hanover lead the PD&E effort to develop multiple interchange configurations to address needs. The effort included development and screening of hundreds of schematic components to

PRIME CONSULTANT: HARDESTY & HANOVER



- Systems Continuity and Capacity
 - New Directional ramps connecting the Beachline Expressway and Florida's Turnpike
 - ♦ Future mainline expansion with longer bridges over the Turnpike
- Systems Operations
 - Auxiliary lanes and braided ramps between interchanges
 - Separation of systems and service ramps

- Ramp Safety and Operations
 - Separation of ramps to eliminate weaving
 - ♦ All Electronic Toll (AET) collections with ORT gantries
- Surface Street Capacity and Operations
 - New reliever interchanges to disperse traffic demand
 - Removal of selected ramps to reduce OBT demand
 - Diverging Diamond Interchange at Consulate Dr. ramps

Key members: Stephan Heimburg, PE; J. Webb Jones, PE; Benjamin Bower, PE; Jason Dunn, PE; Robert Hideck, PE; Zachary Gross, PE; Zineb Bennouna, PE



Firm name	Hardesty & Hanov		Past 1	Past Performance Evaluation Discipline(s)* Road					
Project name	Route 38 Church	Street C	CR 607) to F	Firm responsibility (prime or		Prime			
	Intersection Imp	ts	sub?)						
Project number	Z0010038317		Owner's na	ame	New Jersey Department of Transportation				
Project location	Moorestown T	Cownship	, Burlington	County, Ne	y, New Jersey Owner's Project Manager Andre			Andrew	Maevsky
Owner's address	, phone, email	1035 Pa	rkway Ave.	Trenton, NJ	08625	609.530.	2472 Andrew.Maevsk	ky@dot.n	j.gov
Services commenced by this firm (mm/yy) 01/15 To				Total consu	Total consultant contract cost (\$1,000's)				\$ 2,100
Services comple	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `					Cost of consultant services provided by this firm (\$1,000's) \$1,500			

H&H performed Preliminary and Final Engineering Phase for the Route 38 Intersection Improvements, from South Church Street (CR 607) to Fellowship Road (CR 673).

The project location included the 2nd highest ranked signalized intersection on the NJDOT Congestion Management System (CMS). Lack of capacity results in congestion on Route 38 and lengthy queues on S. Church Street and Fellowship Road during the PM peak period. Accident frequency significantly exceeds the statewide average. The project purpose was to improve safety and operation by increasing capacity. The Preliminary Preferred Alternative (PPA) achieved this by widening and resurfacing the intersection approaches to provide more travel lanes.

Milling and resurfacing of the existing roadway surfaces were used to accomplish cross slope modifications and to address existing areas with poor skid resistance, roughness, and surface distress. Full depth pavement was constructed for widened portions of the roadways and to replace existing shoulder areas found to be substandard, based on designs developed in DARWIN. Guide rail designs were prepared to provide protection for clear zone encroachments such as drainage basins.

Construction employed two primary stages In Stage 1, all widening work including installation of new signal equipment and drainage will be completed while existing traffic patterns are maintained. During Stage 2, traffic was shifted onto newly constructed areas to establish off-peak lane closures to complete milling/resurfacing of the existing pavement.

Key Members: Lee Adams, PE; Ray Mankbadi, PE; John Witthohn, PE; Matt Witkowski, PE; Jordan Baker



Firm name	Civil Design & C	Civil Design & Construction, Inc.				Past Performance Evaluation Discipline(s)* Survey				
Project name	I-10 TX State Lin	ne East of Co	one Gully	y	Firm responsibility (prime or sub?) Sub				ib?) Sub	
Project number	H.003184.5		Owner's	s name	LADOTD / Stanley Ard, PLS					
Project location Calcasieu Parish, LA						Owner's Pro	ject Manager	Stanley Ard, Pl	LS	
Owner's address	ss, phone, email	1201 Capita	l Access 1	Rd., Bat	ton Rouge,	LA70802/22	5-379-1232/Star	nley.ard@la.gov		
Services commenced by this firm (mm/yy) 10/15				Total o	Total consultant contract cost (\$1,000's)				N/A	
Services compl	eted by this firm	(mm/yy)	12/18	Cost o	f consultar	nt services pro	vided by this fir	m (\$1,000's)	\$443	

This was a 6-lane widening project on I-10 in Calcasieu Parish. The project limits extended from the foot of the Sabine River Bridge (approximately 0.5 miles east of the state line) to a point approximately 2000 feet east of the beginning of the existing 6lane section (located East of Coone Gully). The survey width of the project was from apparent right of way to apparent right of way and 500 feet past the gore along each of the on and exit ramps.

In 2018, CD&C was supplemented to extend the original limits of this survey approximately 1500' and to pick up several other areas of additional topographic updates.

CD&C performed a complete topographic survey in accordance with the Location and Survey Manual and all current accepted Location and Survey Automation Procedures for this project. A topographic survey was already completed at all bridge sites located within the limits. The survey included all utilities with depths and information, all drainage structures, and all survey DTM and improvement features that fell inside the survey limits. Due to traffic concerns 3D Terrestrial Scanning was utilized for the location of roadways and traditional means and methods were used to complete the topographic survey on this project. The final submittal of the survey was a combination of the supplied data from LADOTD for the bridges with the current survey that was completed for this project.

Members Involved: Karla E. Weston, P.E.; Ralph Burgess, PLS; Chris Ballard, PLS

Performed in LA: 100%







Firm name	Civil Design & O	Civil Design & Construction, Inc.				Past Performance Evaluation Discipline(s)* Survey			
Project name	I-10: LA 415 to	Essen Lane	on I-10 and	d I-12			Firm responsibi	ility (prime or su	b?) Sub
Project number	H.004100								
Project location	ject location West and East Baton Rouge, LA Owner's Project Manager Nicholas Oliv							Nicholas Olivie	er
Owner's address	ss, phone, email	1201 Capit	al Access	Rd, Bato	n Rouge,	LA 70802 / 2	25-379-1232 / N	licholas.olivier@	la.gov
Services commenced by this firm (mm/yy) 01/18 Tot				Total co	Total consultant contract cost (\$1,000's)			N/A	
Services compl	eted by this firm	(mm/yy)	ongoing	Cost of	Cost of consultant services provided by this firm (\$1,000's)			m (\$1,000's)	\$296

This project located in West Baton Rouge and East Baton Rouge Parishes in the cities of Port Allen and Baton Rouge, LA. A complete Topographic survey including all utilities (ASCE 38-02, QL "B") with depths and all drainage is required, along with Finish floor elevations of all buildings that fall within the survey limits. The survey begins 1,500 feet West of the western most entrance/exit ramps of the LA 415 and I-10 Interchange. From the I-10, I-12 split the survey shall proceed in southerly and easterly directions along the existing main alignment of I-10 for approximately 1.5 miles & I-12 for approximately 1.5 miles to end the route limits.

CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.

Members Involved: Karla E. Weston, P.E.; Ralph Burgess, PLS, Christopher Ballard, PLS; Phil Dupree: Jacob Stoehr

Performed in LA: 100%







Firm name	Civil Design & Construction, Inc.				Past Performance Evaluation Discipline(s)* Survey					
Project name	t name Verot School Road					Firm responsibility (prime or sub?)			b?) Sub	
Project number	Project number H.011235 Owner's name				LADOT	TD C				
Project location	ation Lafayette, LA					Owner's Project Manager Thomas Gattle		Thomas Gattle	e (Huval &	
								Assoc.		
Owner's address, phone, email 922 W. Point Des Mouton Rd., L					d., Lafayet	te, LA 70507	/337-234-3798/tg	gattle@huvalass	oc.com	
Services commenced by this firm (mm/yy) 08/1			08/16	Total	consultant contract cost (\$1,000's)				N/A	
Services completed by this firm (mm/yy) 01/18			Cost	of consultant services provided by this firm (\$1,000's)			\$435			

This project is located in Lafayette Parish between Lafayette Regional Airport and Broussard, LA. The project is for the proposed widening of US 90/I-49 South and realignment of Verot School Road. A topographic survey was performed along the entire proposed route as well as an existing drainage map.

CD&C performed a complete topographic survey of the project site by using 3D Terrestrial Scanning in conjunction with traditional means to complete the survey. Control was set for the scanning throughout the project limits. Coordination with Cardno, Inc. (Team member) was necessary for the location of all utilities in the project area. CD&C also coordinated with all the property owners for access to the properties and also meet with safety advisors for the industrial business that were impacted. The survey included coordination with the ongoing I-49 Connector project and merging of that survey to the CD&C survey in order to make a complete project for the area. CD&C also researched and compiled an existing right of way linework for the prime consultant to use for exhibits for the project and is tasked to complete Final ROW Maps. In order to complete the survey CD&C also had to coordinate with BNSF railroad for access to BNSF's rail.



Members Involved: Karla Weston, PE; Ralph Burgess, PLS; Christopher Ballard, PLS; Phil Dupree; Jacob Stoehr

Performed 100% LA

Firm name	Urban Systems, Inc.				P	Past Performance Evaluation Discipline(s)* Traff			Traffic			
Project name	US 90 (I Build	US 90 (I-49 South) Albertson's Parkway to Ambassador Caffery Design / Firm responsibility (prime o sub?)								or	Sub	
Project numb	ber SP H.010620 Owner's name					LADOTD						
Project locati	ion	Lafayette Par	rish, LA			Owner's Project Manager Peggy Jo Paine, P.E.						
Owner's add	Owner's address, phone, email 1201 Capitol Access Road,					ton Roug	ge, Louisiana, 708	02, 225-379	-1065	, peggy.pai	ne@la	a.gov
Services commenced by this firm (mm/yy) 01/14 To					Total consultant contract cost (\$1,000's)			n/a				
Services completed by this firm (mm/yy) 08/19 Co					Cost of consultant services provided by this firm (\$1,000's)			\$232	.6K			

Urban Systems, Inc. was part of the Design/Build team under the engineering task for this project. The project included upgrading a portion of US 90 from a four-lane facility to a six-lane facility with controlled access. The project also included providing a system of frontage roads to provide connectivity. Urban Systems was responsible for a variety of tasks including developing a signage plan, traffic signal plans, temporary traffic control plans (TCDP), traffic analysis and a Level 3 Traffic Management Plan (TMP) based on **LADOTD EDSM VI.1.1.8**.



Signage and Traffic Signal Plans

As part of the definitive design portion of this project, USI developed signage and traffic signal plans based on LADOTD requirements. The traffic signal plans were also developed in the latest LADOTD TSI format. These plans were updated during the construction phase of the project as unforeseen issues arose. USI worked closely with the contractor, team members and local entities throughout the construction phase.

Temporary Traffic Control Plans (TCDP)

Temporary traffic control plans were developed for the various phases of construction. These plans also included temporary traffic signals for some of the phases. These plans were developed to meet the current LADOTD standards. Additional traffic control plans were developed during the construction phase of the project as required by the contractor. Some of these plans involved complicated detours and devices to not affect traffic while completing construction.

Traffic Study and TMP

Traffic analysis was conducted during the project to determine the impact construction and the proposed configuration would have on traffic conditions. Traffic volumes were re-routed for each phase on construction and capacity analysis was conducted for each scenario. A unique part of this TMP is that the initial models developed will continue to be modified throughout construction to analyze the not only each phase of construction, but also for any changes to the originally proposed sequence.

Key members: Alison Michel, PE, PTOE Nicole Stewart. PE, PTOE

Performed 100% in LA



Firm name	Urban Systems, Inc.				Past Performance Evaluation Discipline(s)* Traffic			fic		
Project name	EBR Signals -5b						Firm responsibility (prime or sub?)			Sub
Project number	USI Prj # 20-07	I Prj # 20-075-1 Owner's name Baton Rouge Pari				Rouge Paris	h			
Project location	East Baton Rouge Parish, Louisiana				•	Owner's Project Manager Ingolf Partenh			tenheim	er,
Owner's address, phone, email 225-389-3246										
Services commenced by this firm (mm/yy) 12/16 Tot				Total	otal consultant contract cost (\$1,000's)			n/	⁄a	
Services completed by this firm (mm/yy) 11/20 C				Cost	Cost of consultant services provided by this firm (\$1,000's))'s) \$	109K	

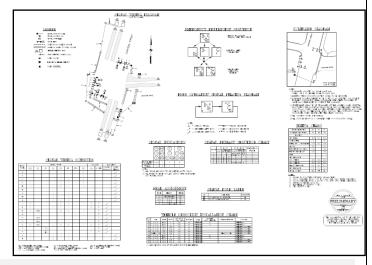
Urban Systems was a sub-consultant tasked with designing traffic signal plans for twenty-four (24) intersections along Choctaw Dr, S. Choctaw Dr and S. Foster Ave in East Baton Rouge Parish, Louisiana. The design consisted of full upgrades for twenty-two (22) of the traffic signals including mast arms and foundations, signal controller and cabinet, video detection, railroad preemption, fiber interconnect, and ADA compliance. The remaining two (2) intersections included the installation of fiber interconnect to the existing signal controller.

The original phase of this project also included data collection and development of new signal phasing and timing for optimum intersection operation. Progression analysis was performed to develop coordination parameters.

After the completion of preliminary plans, this project was put on hold for multiple years due to lack of funding. Upon restarting the project, Urban Systems updated the design plans based on current field conditions and LADOTD/City-Parish requirements.

Multiple field visits were conducted with the prime consultant, LADOTD, the City-Parish and the railroad company to verify existing conditions and identify/confirm locations for new equipment.

Cost estimates and quantities were updated from the LADOTD's 2006 Spec Items to the LADOTD's 2016 Spec Items.



Key members: Alison Michel, PE, PTOE; Nicole Stewart, PE, PTOE Matthew Morgan, PE; Christine Darrah, PE

Performed 100% in LA



Firm name	Urban Systems, Inc.				P	Past Performance Evaluation Discipline(s)* Tr			Traffic			
Project name		Lakefront / Holy Cross Plan Revisions Computerized Traffic Signals Phase II Firm responsibility (prime or so						ub?)	Sub			
Project number	SP No. 700-30-0247 Owner's name Cit				City of	y of New Orleans / LADOTD						
Project location	n Orleans Parish, LA						Owner's Project Manager Karl Rothermo			Rotherme	1	
Owner's addres	s, pl	hone, email	1300 Perd	ido Street Ne	w Orle	ans, LA						
Services commenced by this firm (mm/yy) 06/09 Total					Total	Total consultant contract cost (\$1,000's)				n/a		
Services completed by this firm (mm/yy) 08/10 Cost of consultant services provided by this firm (\$\sqrt{9}\$						firm (\$1,	,000's)	\$58K	, k			

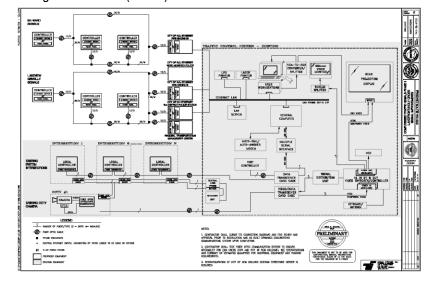
The project included a communications study and plan preparation for the Lakefront and Holy Cross signal systems. The objective of the Communications Study was to determine requirements for a self-healing fiber network between the traffic signals and video system detectors included in this project to the City of New Orleans Department of Public Works (DPW) and the new Regional Traffic Management Center (RTMC).

The project included forty-six (46) signalized intersections in two systems, Lakeview/Gentilly and the 9th Ward, and provided connectivity to DPW and RTMC. The communications system design included tie-ins to the city's ethernet network allowing full operation of the system from City Hall.

Preliminary and Final Plans were prepared for the communications system that included modification to existing traffic signal controller/cabinets. Cost estimates and quantities were updated from the LADOTD's 2006 Spec Items to the LADOTD's 2016 Spec Items.

Key members: Alison Michel, PE, PTOE Nicole Stewart, PE, PTOE

Performed 100% in LA





18. Approach and Methodology:

UNDERSTANDING

Hardesty & Hanover (H&H) understands one of the most valuable contracting tools available to DOTD for project delivery is the statewide IDIQ Contract for Roadway Design Services. It engages our team quickly and easily for time sensitive roadway infrastructure projects. The H&H Team includes sub-consultants that we have worked with in the past with extensive experience in their specialty areas. Civil Design & Construction Inc. (CD&C) will perform all topographic survey and Urban Systems Inc. (USI) will perform all traffic control design, traffic signal analysis, design work and transportation management plans (TMPs). Our team is committed to partnering with DOTD and project stakeholders to create a robust approach and cost-efficient response and delivery. We will be responsive to your needs, looking for innovations and cost savings with all Task Orders (TO) presented to us.

We have a good understanding of the project types that will be included in this IDIQ. Examples of projects that could possibly be administered via this IDIQ include interstate re-surfacing projects, roadway reconstructions, roadway widenings, possible roundabouts, and intersection improvements. Our goal is to team with DOTD as a qualified full-service engineering firm to provide general roadway design engineering services across the state. While services required will vary by project, it is anticipated that commonly required services will include:

- > Topographic Surveys
- > Traffic Control Designs, Traffic Signal Analysis and Designs
- > Roadway Design
- > Hydraulic Analysis and Design

- ➤ Roadway Design Services During the Environmental Process
- Special Provisions
- ➤ TMPs
- Quality Plan Reviews
- > Construction Support

APPROACH

For each TO, our goal is simple: follow Project Delivery Process and the Road Design Manual, coordinate with project stakeholders, deliver quality projects, and understand contracting mechanisms to define TO needs. From this we provide a thoughtful approach, reduce risk for all parties, maximize cost savings, provide quality design & plans, protect people, and complete the project on-time meeting DOTD's schedule. Given our extensive roadway IDIQ contract experience we understand continuity of the project team, adequately staffing the project, depth of project managers, accurate work hour estimates, effective coordination, and communication among the project team, controlling the project costs, and meeting project schedules are the keys to the success of any individual project. Our approach and process to delivering a successful IDIQ contract and completion of TOs is summarized in the following steps:

- > Implement Understanding of DOTD's Needs and Goals
- Execute the Task Order Promptly
- Engage Qualified Team Resources
- Identify and Connect with Stakeholders
- Promote Good Communication

- Manage Critical Path Elements
- Maintain Budget
- Maintain Quality
- Meet Schedules
- Contract Management

METHODOLOGY

H&H has a strong understanding of DOTD's Plan Delivery Process. The methodology for each TO will include:

SCOPING At the onset of any TO, our project Manager will coordinate with the DOTD PM to understand the project completely so that we can develop our Project Management Plan (PMP). Our PMP includes: a detailed scope of the project; a detailed schedule including the number of anticipated milestone submittals, plan review meetings, and project coordination meetings; the project design criteria; the anticipated project delivery milestones; our quality control plan; a project risk

register; identification of any special coordination or utility needs (e.g., railroad crossing, duct banks, transmission lines); our communications plan; and the road design report. This plan allows us to gather all the project information efficiently to review and coordinate with the DOTD PM at the kickoff meeting and will help the design process run more smoothly. This PMP is maintained through the life of the project so that as more information is developed and critical risks or concerns become apparent, they can be documented.

KICKOFF MEETING After the issuance of a TO, the H&H Team will coordinate a kickoff meeting with the DOTD PM and pertinent DOTD technical staff to discuss the primary goals of the project as well as review the PMP that we have already developed. This will be an opportunity for the H&H team and DOTD staff to clarify any questions or concerns from either party so that we can prepare for a smooth design process. This kickoff meeting will also be used as an opportunity to collect any available existing information pertinent to the project, such as: As-built Plans; Feasibility Studies/Traffic Studies; Environmental Documents; and Existing Utility Information. After the minutes from this meeting have been distributed, our team will coordinate with the DOTD PM to make a field visit to the site, and coordinate/meet with the district personnel to discuss their priorities and get any additional information from them once we have our boots on the ground.

DATA COLLECTION/FIELD VISITS During the Data collection phase, our team would begin the process of developing the necessary information on which we will base the design. Our team member CD&C will be responsible for the completion of any survey needed for these projects. CD&C has extensive experience performing DOTD surveys and has completed numerous surveys for various DOTD projects throughout the state. With CD&C's current backlog they are able to take on multiple surveys concurrently, which provides some redundancy if multiple TOs should come out in rapid succession. During this data collection phase, the H&H team will make our first site visit to assess any design risks that need to be mitigated and consider any obstacles that will need to be overcome in the design. Some possible examples of these may be utility access points that have been paved or grown over, significant drainage structures, project clearance issues, proximity to existing R/W or structures, existing drainage problems, areas of damaged pavement indicative of failed base or other structures, pedestrian traffic patterns, etc. This site visit will also give us the opportunity to coordinate directly with the district to get their understanding of the goals of the project. This upfront field investigation allows us to anticipate potential design issues that typically come up at the 95% preliminary Plan-In-Hand meeting and prevent rework later which can impact the schedule. All information from the field will be compiled and anything that needs to be added to the PMP will be tracked to keep a consistent track of all factors.

TRAFFIC ENGINEERING/ SIGNAL PLAN DEVELOPMENT/ TMPs USI's expertise is in Traffic Engineering, and they have been working with LADOTD's **Traffic Engineering Process** since its inception. The USI's staff knowledge of the DOTD's Access Management policies and their experience in developing design techniques to mitigate impacts will result in a project that will enhance the quality of life for the surrounding community. The **Traffic Signal Plans** will be developed based on the latest DOTD Traffic Signal Design and Traffic Engineering Manuals as well as to meet the requirements of the Manual of Uniform Traffic Control Devices. USI's experience with various DOTD projects at all the different phases will prove invaluable during the implementation of the project. USI also has a great deal of experience in the development of **Traffic Management Plans** for various types of projects including interchange modifications. These have included all TMP levels (1, 2, 3, 4). The TMP defines management strategies and describes how they will be used to manage the work zone impacts of a road project. These strategies for a work zone include temporary traffic control measures and devices, public information and outreach, and operational strategies such as travel demand management, signal retiming and traffic incident management.

PRELIMINARY PLAN DEVELOPMENT We anticipate using DOTDs Road Design Manual for all construction plan development and project delivery. As such, we acknowledge the following submittal stages: 30%, 60%, 95%, & 100% Preliminary Plans as well as 60%, 95%, 98%, and 100% Final Plans included in the Road Design Manual. This information as well as discussing the road design report, and what plan sections will be included with each submittal will also be discussed at the kickoff meeting to make sure that all plan delivery expectations are set prior to plan development. Designs will be in accordance with DOTD design criteria including the Road Design Manual, Design Criteria Guidelines, the DOTD Hydraulics Manual, and all other applicable road design manuals. The concept of practical designs will also be leveraged to the benefit of the project and DOTD. This may require utilization of the design exception process, but the H&H team has extensive experience coordinating with DOTD to obtain these approvals. We understand the use of crash modification factors (CMFs) to compare the relative impacts to safety

HH Hardesty &Hanover of different design feature alternatives. If design guidance is needed that is not available via DOTD documentation for a particular issue, H&H leans on our knowledge of the AASHTO "Green Book" for geometrics, the AASHTO Roadside Design Guide for roadside safety issues, the AASHTO Guidelines for Geometric Design of Low-Volume Roads, and the MUTCD for Signing and striping as needed. The H&H Team is proficient in using DOTD's current preferred software including InRoads SelectSeries II, CADConform, and HYDRWin. With the knowledge that Bentley is sunsetting InRoads SelectSeries II, we have already started with its transition to Bentley's OpenRoads platform; a unique advantage once implemented.

60% PRELIMINARY PLANS. This retainer contract may offer an assortment of different types of design that vary from one project to the next depending on the type and scope of each project, but for a typical road design project during the 60% Preliminary Plans phase we may be expected to develop horizontal and vertical geometry, roadway drainage design, preliminary hydraulics report, striping layouts, preliminary required right-of-way locations and 3d modeling. The plan sheets that will be delivered with each submittal stage will follow Figure 1-03 from the Road design Manual. We will also provide any additional sheets early that are requested or are believed to be time critical.

95% & 100% PRELIMINARY PLANS The 95% preliminary plan set is critical for its use in the Plan-In-Hand (PIH) meeting and field visit where we will have an opportunity to go through the plans with DOTD staff to discuss anything they may have questions, comments, or concerns about. This is also an opportunity to directly coordinate with the district on any constructability concerns they may have at this time. If utility companies are present, then we can also coordinate any known impacts at this time. Additional plan sheet development and design will be ongoing at this stage. For 95% preliminary plans we will have developed our preliminary sequence of construction for discussion at the PIH meeting, our master summary of quantities, and have the necessary QA/QC checklists completed. For the 100% Preliminary delivery we will have addressed all comments received to this point, provide our final right-of-way lines (if necessary), provide our engineering cost estimate, provide any permit sketches that have been requested to this point, and have submitted any necessary design exceptions/waivers. The 100% Preliminary Submittal may also contain proposed traffic signal hardware locations and proposed new signal timings if included in the scope of work. A separate 30% Final Plan submittal could also be delivered to accommodate these traffic signal related tasks.

FINAL PLAN DEVELOPMENT Upon receipt of NTP, our team will move into the final plan development. As a kickoff e, our team will redistribute any updated overall project delivery plan information to the DOTD PM and coordinate to cover any updates. This will again establish expectations for the final plans and allow for a smooth and transparent progression to project completion. The final plan stages include 60% Final, 95% Final, and 100% Final plans. The final plans stages will be when we develop our more detailed construction plan sheets and information, and finalize any outstanding permits, and finalize design exceptions.

60% FINAL PLANS For the 60% final plans stage, any outstanding drainage design plans should be included with the set and the finalized hydraulic report should be submitted as well. Additionally, our team will be in the final stages of any detailing sheets necessary for the project such as graphical grades, joint layouts, sequencing notes, and permanent signage and sign structures. For projects including traffic signals, proposed signal wiring, a list of items for signal work, and special foundation designs (if required) will be included with this milestone. we will also be coordinating and attending any Joint Plan Review to coordinate with the final right-of- way maps if any are required for the project.

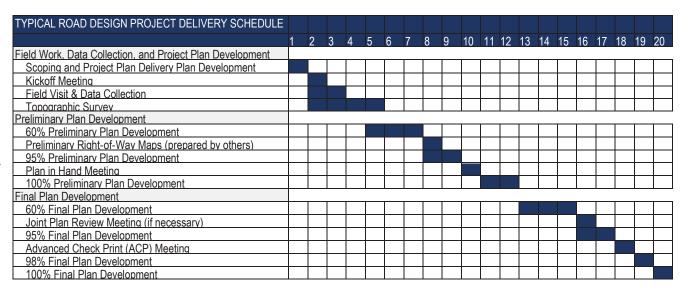
95% (ACP) FINAL PLANS For the 95% final plans stage, all outstanding design and plan development will be completed, and a complete plan set distributed to DOTD. We will attend and assist in coordinating the final Advance Check Prints meeting. We will utilize this opportunity to discuss any final questions or observation with the district personnel, DOTD staff, and any stakeholders that may attend. We will also provide a constructability report if one is desired as well as an ACP meeting. This submittal will also serve as an opportunity for the plans to be reviewed by the plan checker unit if that unit chooses to look at the project. We will also have design exception and design report approvals at this point in the plan delivery process.

98% & 100% FINAL PLANS The 98% final plan submittal will include the complete plan set having addressed all comments received, as well as the engineers final cost estimate and any special provisions necessary for the letting or construction of the project. Similarly, the 100% final submittal will include a complete stamped and signed plan set, stamped hydraulic report, and the final engineering estimate.

HH Hardesty &Hanover

SCHEDULE

We have carefully developed the following example schedule which identifies major milestones necessary to complete the project plans for a typical project, assuming a medium sized project. Smaller projects would likely have a shorter duration and larger projects a longer duration.



QUALITY CONTROL

Quality control is a continual effort. A QA/QC Plan will be prepared by our team and provided to DOTD within 10 business days of award. H&H has committed to fostering the improvement of quality by generating a project specific Quality Management Plan (QMP) for providing guidance to the project team. The objective of the QMP is to provide tools to the project team so that our professional services are performed and delivered in accordance with applicable industry standards of care and to the satisfaction of project scope requirements while remaining within the allocated schedule and budget. The Quality Management Plan includes the H&H standard Quality Assurance and Quality Control Plans. Together these plans form our Quality Management System (QMS) which defines procedures to minimize errors, discrepancies, and omissions in our work products. H&H is continually striving to improve customer satisfaction. Our QMS is a living document that will be continually assessed and revised to reflect best practices and lessons learned. This process includes clarification of design information to support construction or production, correction and prevention of errors and omissions, and response to client feedback.

WHY ARE WE THE RIGHT TEAM FOR THIS CONTRACT?

H&H's team of highly qualified engineers have extensive experience with various roadway design projects including interstate widening projects, roadway rehabilitation projects, and drainage improvements. Our local and available staff are ready to start working on your projects as soon as this IDIQ contract is awarded. H&H is committed to provide quality products and has the additional resources committed to delivering your projects within the allocated schedule and budget.





Page 78 of 96 PRIME CONSULTANT: HARDESTY & HANOVER

19. Workload:

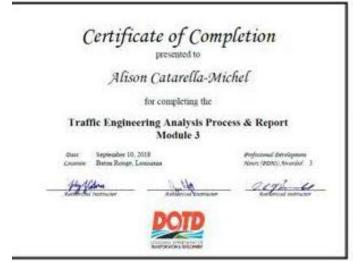
Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Hardesty & Hanover	Bridge	H.002798.6	Bayou Teche Bridge at Oaklawn	\$55,310
	Road	H.014363.5	Sidewalk Improvements to Conform to ADA – Task Order 1 St. Tammany Parish	\$9,000
	CE&I/OV	H.001498.6	LA 24 and LA 316: Company Canal Bridge (CE&I), Terrebonne Parish	\$2,299,834
Civil Design & Construction, Inc.	Survey	4400017091/ TO-2	LWI Statewide Modeling R5 – Task Order #2	6,722
	Survey	4400017091/ TO-3	LWI Statewide Modeling R5 – Task Order #3	227,031
Urban Systems, Inc.	Traffic	H.011309.5	Mac Arthur Final Design	\$30,687
	Traffic	H.012812	US 190: Northshore and Camp Villere	\$5,507
	Traffic	H.004891	Reserve to I-10 Connector	\$23,065



20. Certifications/Licenses:









TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.TM

Ms. Alison Catarella Michel, P.E., PTOE, FITE

Transportation Engineer Urban Systems, Inc.

Business Address (Preferred Mailing Address)

400 N. Peters, Suite 206D New Orleans, LA 70130

USA

T: (504) 523-5511 F: (504) 523-5522

E-Mail: acmichel@urbansystems.com

New Search Refine Search

Transportation Professional Certification Board Inc.

1627 Eye Street, NW, Suite 600, Washington, DC 20006 USA

Telephone: +1 202-785-0060 | Fax: +1 202-785-0609

E-mail: certification@ite.org

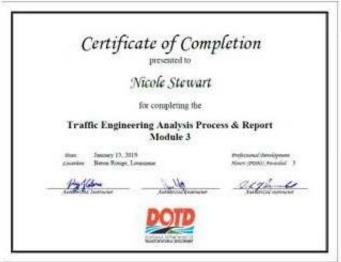
©2008 Transportation Professional Certification Board Inc.

PTOE 1023

Exp. Date 11/06/2023











TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.TM

Mrs. Nicole H. Stewart, P.E., PTOE, MITE

Transportation Engineer

Urban Systems, Inc.

Business Address (Preferred Mailing Address)

400 N. Peters, Suite 206

New Orleans, LA 70130

USA

T: (504) 523-5511

F: (504) 523-5522

E-Mail: nhstewart@urbansystems.com

New Search

Refine Search

Transportation Professional Certification Board Inc.

1627 Eye Street, NW, Suite 600, Washington, DC 20006 USA

Telephone: +1 202-785-0060 | Fax: +1 202-785-0609

E-mail: certification@ite.org

©2008 Transportation Professional Certification Board Inc.

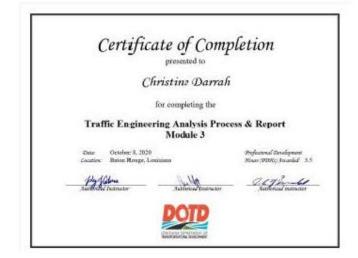
PTOE 2923 -

Expiration date 8/2023



























Office of the Secretary PO Box 94245 | Baton Rouge, LA 70804-9245 PH: 225-379-1200 | FX: 225-379-1851

John Bel Edwards, Governor Shawn D. Wilson, Ph.D., Secretary

April 11, 2022

Civil Design & Construction, Inc. Attn: Karla Weston

PO Box 857 Port Allen, LA 70767

Dear Karla Weston:

The Louisiana Department of Transportation and Development (LADOTD) Compliance Programs Section have received your firm's Disadvantaged Business Enterprise (DBE) and Small Business Element (SBE) annual affidavit. Based on the information, which you provided, it has been confirmed that your firm continues to meet the eligibility requirements of our program and remains certified for only the following specific work categories that fall under the listed NAICS codes:

> NC541330-Engineering Services C05-Structural Engineering C09-Civil Engineering NC541340-Drafting Services C03-Drafting NC541350-Building Inspection Services **C21-Construction Inspections** NC541370-Surveying and Mapping (except Geophysical) Services C06-Land Surveying C12-Right-of-Way 727-Mobilization 740-Construction Layout CSL-Construction Layout Design

Please note that per the federal regulations, suppliers only receive 60% goal credit towards the materials they provide. Also, note that any contractor performing work in excess of \$50,000 with the exception of electrical, mechanical and plumbing requires A Louisiana Contractor's License, which are required to have a license if work is in excess of \$10,000. You may contact the State Licensing Board for Contractors at (225) 765-2301 for more information. All participants of the Louisiana Unified Certification Program will recognize your firm's certification. This includes all entities receiving federal transportation funding within the boundaries of our state.

You will be required to submit an annual affidavit with all supporting documents (Business taxes with all attachments, such as 1098, 1099, K-1's and/or W-2's) stating your firm continues to meet the eligibility requirements of the program. An email informing you to submit the necessary documentation will be forwarded to you approximately six (6) weeks prior to your anniversary date of March 31, 2023. However, should you not receive notification from this office for your annual affidavit; it is your responsibility to contact us. Additionally, you must notify our office immediately regarding any changes, which affect the social and economic disadvantage, size, ownership or control of your firm.

ouisiana Department of Transportation and Development | 1201 Capitol Access Road | Baton Rouge, LA 70802 | 225-379-1200 An Equal Opportunity Employer | A Drug-Free Workplace | Agency of Louisiana.gov | dotd.la.gov

Civil Design & Construction, Inc. April 11, 2022 Page 2

The LADOTD has contracted SJB Group, LLC to provide DBE Supportive Services to all certified DBEs, in the LAUCP, at no cost to you. This consultant can offer your firm assistance and guidance on areas such as marketing, estimating, bidding, financial preparations, etc. Contact Jackie des Bordes or Kenyatta Sparks with the SJB Group, LLC at (225) 769-3400 for any assistance needed to grow your organization.

The Louisiana UCP certifying entity reserves the right to withdraw this certification, if at any time, it is determined that DBE and SBE certifications was knowingly obtained by the submission of false, misleading or incorrect data. The Louisiana UCP certifying entity also reserves the right to request additional information and/or conduct an on-site visit at any time during your certification period.

We are pleased to have you as a participant in the LAUCP and wish you much success.

If you have any questions regarding the content of this letter, contact the LADOTD DBE Certification Unit at (225) 379-1382.

Respectfully.

Rhanda Wallace

Rhonda Wallace DBE/SBE Programs Manager

Enclosure (Certificate)









LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & under the State of Louisiana United Certification Program (LAUCP)

Civil Design & Construction, Inc.

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC541330, NC541340, NC541350, NC541370

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: March 2022 to March 2023

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.



Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development



4/23/2020 Commercial - Search

R. Kyle Ardoin Secretary of State State of Louisiana Secretary of State

COMMERCIAL DIVISION 225.925.4704



<u>Fax Numbers</u>
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

Trade Name Details

Type(s) Registered: TRADE NAME

Registered Name: URBAN SYSTEMS, INC

Applicant: URBAN SYSTEMS ASSOCIATES, INC.

2000 TULANE AVENUE, SUITE 200

NEW ORLEANS, LA 70112

Type Of Business: ENGINEERING FIRM

Book #: 65-5513
Current Status: ACTIVE

Dates

 Registration Date:
 11/13/2014

 Expiration Date:
 11/13/2024

 Date First Used:
 11/13/2014

 Date First Used (in Name of the Park Used)
 11/13/2014

La.):

Current Classes

No Current Classes

Expired Classes

No Expired Classes

Amendments On File

No Amendments on file

Print









LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations
& under the State of Louisiana United Certification Program (LAUCP)

Urban System Associates, Inc.

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC541330, NC541340, NC541990

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: (February 2022 to February 2023)

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development





hereby grants

National Women's Business Enterprise Certification to

URBAN SYSTEMS ASSOCIATES, INC. DBA Urban Systems, Inc.

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE). This certification affirms the business is woman-owned, operated and controlled and is valid through the date herein.

Certification Granted: May 22, 2020 Expiration Date: May 31, 2023 WBENC National Certification Number: WBE2001268 WBENC National WBE Certification was processed and validated by Women's Business Enterprise Council - South, a WBENC Regional Partner Organization.





Authorized by Phala Mire, President Women's Business Enterprise Council - South

NAICS: 541330, 541340 UNSPSC: 70131701, 80101605, 81101500, 81101502, 81101510, 81101524, 81102201



Page 91 of 96





























HEREBY GRANTS WOMAN OWNED SMALL BUSINESS (WOSB) CERTIFICATION TO

URBAN SYSTEMS ASSOCIATES, INC. DBA Urban Systems, Inc.

The identified small business is an eligible WOSB for the WOSB Program, as set forth in 13 C.F.R. part 127 and has been certified as such by an SBA approved Third Party Certifier pursuant to the Third Party Agreement, dated June 30, 2011, and available at www.sba.gov/wosb.

The WOSB Certification expires on the date herein unless there is a change to the SBA's regulation that makes the WOSB ineligible or there is a change in the WOSB that makes the WOSB ineligible. If either occurs, this WOSB Certification is immediately invalid. The WOSB must not misrepresent its certification status to any other party, including any local or State government or contracting official or the Federal government or any of its contracting officials.

Majority Female Owner: ALISON MICHEL	
NAICS: 541330, 541340 UNSPSC: 70131701, 80101605, 81101500, 81101502, 81101510, 81101524, 81102201	
Certification Number: WOSB200724	
Renewal Date: May 31, 2023	
WOSB Regulation Expiration Date: 5/31/2024	



Phala Mire, Women's Business Enterprise Council - South President

Council - South President

Pamela Prince-Easton, WBENC President & CEC

LaKesha White, Vice President, Certification





21. QA/QC Plan and/or Work Plan:

Not Applicable. Will be submitted at time of contract award.



PRIME CONSULTANT: HARDESTY & HANOVER

22. Sub-consultant information:

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Civil Design & Construction, Inc.	P O Box 857 Port Allen, LA 70767 3251 Southern Pacific Road	Karla E. Weston, PE kweston@cdcbr.com	225.765.1802
Urban Systems, Inc.	2000 Tulane Ave. Suite 200 New Orleans, LA 70112	Alison Michel acmichel@urbansystems.com	504.569.3958



PRIME CONSULTANT: **HARDESTY & HANOVER**

23. Location:

Not Applicable



PRIME CONSULTANT: HARDESTY & HANOVER



3850 N. Causeway Blvd, Suite 1850 Metairie, LA 70002 T: 504.962.9212 la@hardestyhanover.com