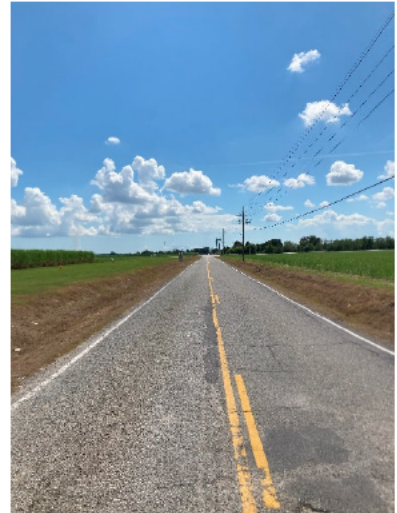


CONTRACT NO. 4400030048
STATE PROJECT NO. H.012867.6

S LARRIVIERE RD: LA 92 – CHEMIN
METAIRIE (CE&I)

OCTOBER 10, 2024



SUBMITTED BY:
HORIZON ENGINEERING, LLC



1013 N. CAUSEWAY BLVD., SUITE 201
METAIRIE, LOUISIANA 70001

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

(Revised September 17, 2024)

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

1. Contract Name as shown in the advertisement	S LARRIVIERE RD: LA 92 – CHEMIN METAIRIE (CE&I)
2. Contract Number(s) as shown in the advertisement	4400030048
3. State Project Number(s), if shown in the advertisement	H.012867.6
4. Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	Horizon Engineering, LLC
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0007715
6. Prime consultant mailing address	1013 N. Causeway Blvd., Suite 201 Metairie, LA 70001
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1013 N. Causeway Blvd., Suite 201 Metairie, LA 70001
8. Name, title, phone number, and email address of prime consultant's contract point of contact	John Karlin, SE, PE, Co-Founder and Principal (504) 270-1830 jkarlin@horizonengineeringllc.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	John Karlin, SE, PE, Co-Founder and Principal (504) 270-1830 jkarlin@horizonengineeringllc.com

Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

HORIZON ENGINEERING, LLC

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 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 or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right 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.



Signature above shall be the same person listed in Section 9:

October 10, 2024

Date:

Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.


Firm(s):
N/A

Firm(s)' %:
N/A

12. Past Performance Evaluation Discipline Table:

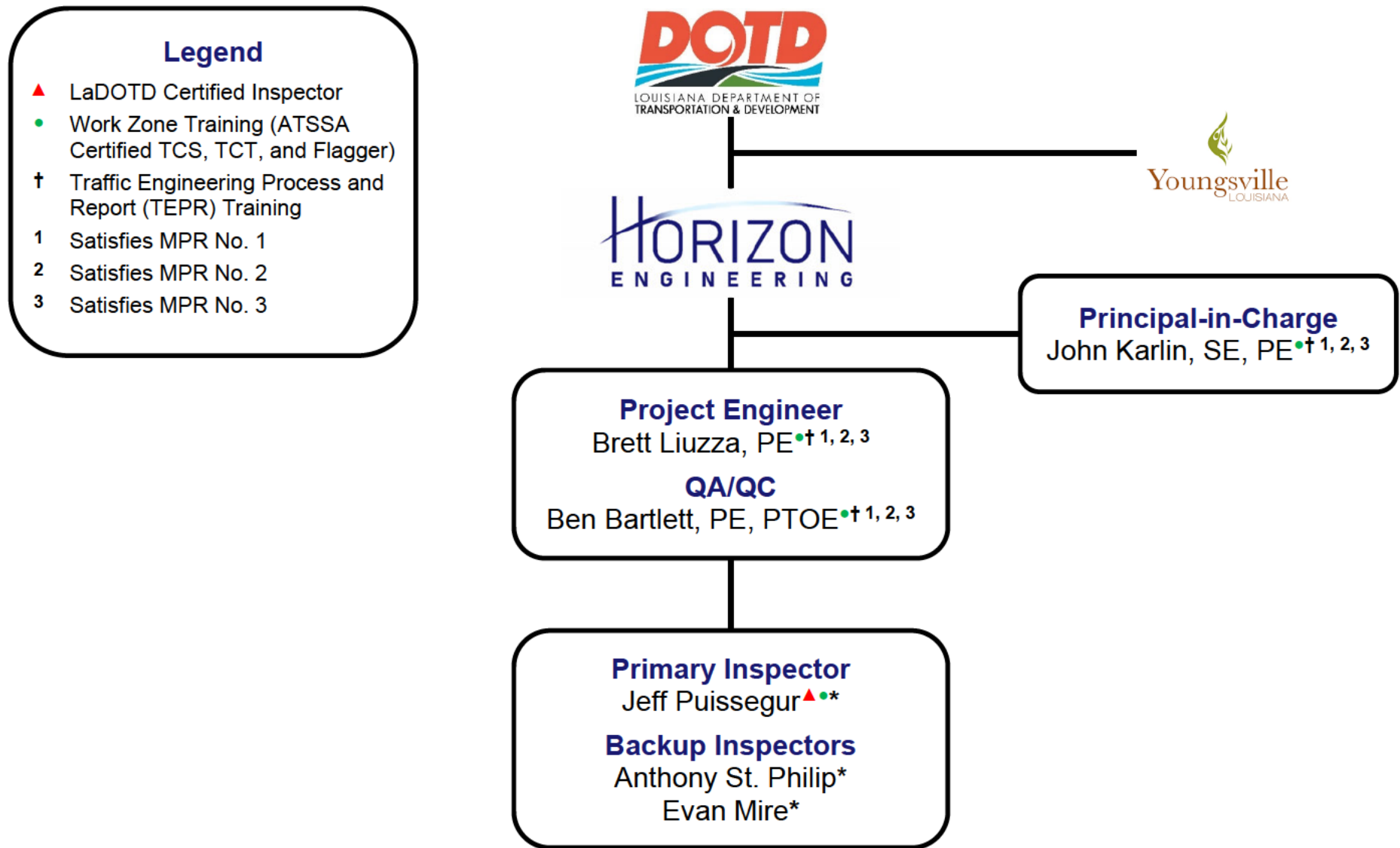
Past Performance Evaluation Discipline(s)	% of Overall Contract	Horizon Engineering, LLC (Prime)	Each Discipline must total to 100%
CE&I/OV	100%	100%	100%
Percent of Contract	100%	100%	100%

13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel <u>committed to this contract</u>	Total number of personnel available in this DOTD Job Classification (if needed)
	Principal	1	3
	Supervisor - Eng	1	3
	Engineer	1	3
	Inspector - Lead	1	1
	Inspector	2*	4

*Based on the project's scope of work, we anticipate that only one full-time certified inspector will be required; however, we can provide two additional uncertified inspectors to assist with field and office tasks, such as inspections and SiteManager duties, if necessary due to the contractor's manpower allocation, construction schedule, work hours, and other similar factors.

14. Organizational Chart:



*Contract Employee

15. Minimum Personnel Requirements:

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 and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	John Karlin, SE, PE	Horizon Engineering, LLC	PE #44795 – Civil and Structural SE #081-008511 – Structural	LA IL	3/31/2025 11/30/2024
2	Brett Liuzza, PE	Horizon Engineering, LLC	PE #37753 – Civil	LA	9/30/2025
	Ben Bartlett, PE, PTOE	Horizon Engineering, LLC	PE #38980 – Civil PTOE #4020 – Traffic Operations	LA USA	9/30/2026 3/29/2025
3	Brett Liuzza, PE	Horizon Engineering, LLC	PE #37753 – Civil	LA	9/30/2025
	Ben Bartlett, PE, PTOE	Horizon Engineering, LLC	PE #38980 – Civil PTOE #4020 – Traffic Operations	LA USA	9/30/2026 3/29/2025

16. Staff Experience:

Firm employed by Horizon Engineering, LLC			
Name	Brett Liuzza, PE		Years of relevant experience with this employer
Title	Co-Founder and Principal		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Bachelor of Science / 2008 / Civil Engineering	
Active registration number / state / expiration date		37753 / LA / 9/30/2025	
Year registered	2013	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities		Role: Project Engineer (Satisfies MPRs 1, 2, and 3) Responsibilities: Construction administration (including SiteManager duties), construction engineering, management of inspectors, and coordination with City of Youngsville and DOTD.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
05/08 – Present	<ul style="list-style-type: none"> Over 16 years of construction administration and construction engineering experience, including many recent LaDOTD LPA CE&I road projects. Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger. Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course. Completed Louisiana State Civil Service CPTP SCS Cybersecurity WBT. 		
10/18 – 10/23	S.P. No. H.007271.6 Canal Blvd (R.E. Lee – Amethyst) Owner: City of New Orleans (LaDOTD LPA project). Scope: Replacement of asphalt roadway (including curb, driveways, sidewalks, and curb ramps) and drainage, sewer, and water, improvements. Cost: ≈\$4,500,000. Role: Project Manager and Lead Construction Engineer. Managed 2 inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; developed adjustments to drop inlets, manholes, and other drainage structures in the roadway; performed SiteManager duties; coordinated construction materials testing; prepared change orders; and prepared project closeout documentation.		
07/21 – 01/24	S.P. No. H.007273.6 Magazine St (Leake Ave to East Drive) Owner: City of New Orleans (LaDOTD LPA project). Scope: Replacement of asphalt roadway with PCC pavement roadway (including curb, driveways, sidewalks, and curb ramps) and drainage, sewer, and water improvements. Cost: ≈\$4,500,000. Role: Project Manager and Lead Construction Engineer. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; developed adjustments to utilities and drop inlets, manholes, and other drainage structures in the roadway; performed Site Manager duties; coordinated construction materials testing; prepared change orders; and prepared project closeout documentation.		
09/20 – 07/22	Milneburg Group B (FRC) Streets Owner: City of New Orleans. Scope: Replacement of asphaltic concrete roadway and drainage, sewer, and water improvements. Cost: ≈\$7,400,000. Role: Project Manager and Lead Construction Engineer. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.		

Brett Liuzza, PE (Continued)

05/23 – 01/24	S.P. No. H.014315.6 Grafton Drive Pavement Rehabilitation Owner: City of Slidell (LaDOTD LPA project). Scope: Repair/replacement of deficient PCC pavement panels, curbs, driveways, and curb ramps. Cost: ≈\$1,000,000. Role: Project Manager and Lead Construction Engineer. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; performed SiteManager duties; coordinated construction materials testing; developed adjustments to drop inlets, manholes, and other drainage structures in the roadway; prepared change orders; and prepared project closeout documentation.
10/23 – 01/24	S.P. No. H.014317.6 Carey St. Pavement Rehabilitation Owner: City of Slidell (LaDOTD LPA project). Scope: Repair/replacement of deficient PCC pavement panels, curbs, driveways, and curb ramps. Cost: ≈\$970,000. Role: Project Manager and Lead Construction Engineer. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; performed SiteManager duties; coordinated construction materials testing; developed adjustments to drop inlets, manholes, and other drainage structures in the roadway; prepared change orders; and prepared project closeout documentation.
07/23 – 01/24	S.P. No. H.011779.6 Power Blvd Median Improvements Owner: City of Kenner (LaDOTD LPA project). Scope: Installation of a multi-use path and landscaping in the median of Power Blvd. as well as a pedestrian/bicyclist truss bridge over Canal No. 1. Cost: ≈\$3,400,000. Role: Construction Engineer. Performed inspections; reviewed RFIs, submittals, and pay applications; performed Site Manager duties; coordinated construction materials testing; and prepared change orders.
07/13 – 04/16	Jefferson Parish Submerged Roadways Program Owner: Jefferson Parish. Scope: Evaluation of Hurricane Katrina related roadway damage and repair/replacement of deficient roadways (85 PCC pavement streets and 8 miles of asphaltic concrete roadway). Cost: ≈\$50,000,000. Role: Construction Engineer. Evaluated roadway damage; performed inspections; managed inspectors; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.
05/21 – 12/22	RR122 and RR123 Marlyville-Fontainbleau Groups G and H (FRC) Owner: City of New Orleans. Scope: Roadway reconstruction, including drainage, sewer, and water lines and curbs, driveways, sidewalks and curb ramps. Cost: ≈\$23,000,000 (est.). Role: Project Manager and Lead Civil Engineer. Designed roadway, driveway, and sidewalk geometric layout, asphaltic concrete pavement, concrete curb and gutter, 15” to 30” RCP, and sewer and water mains, valves, fittings, offsets, and house connections. Prepared plans, specifications, and opinion of probable construction cost. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.
07/13 – 05/22	Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B) Owner: SLFPA-E. Scope: Fortification of the Lake Pontchartrain seawall and roadway, drainage, and lighting improvements (5.2 miles long). Cost: ≈\$50,000,000. Role: Project Manager and Lead Construction Engineer. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.

16. Staff Experience:

Firm employed by Horizon Engineering, LLC			
Name	Ben Bartlett, PE, PTOE		Years of relevant experience with this employer
Title	Co-Founder and Principal		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Master of Civil Engineering / 2010 / Civil Engineering Bachelor of Science / 2008 / Civil/Environmental Engineering	
Active registration number / state / expiration date		PE: 38980 / LA / 9/30/2026 PTOE: 4020 / USA / 3/29/2025	
Year registered	PE: 2014 PTOE: 2016	Discipline	Civil Engineer Professional Traffic Operations Engineer
Contract role(s) / brief description of responsibilities		Role: Quality Assurance/Quality Control (Satisfies MPRs 1, 2, and 3) Responsibilities: QA/QC of construction administration, construction engineering, inspection, and temporary traffic control.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
06/10 – Present	<ul style="list-style-type: none"> Over 15 years of construction administration and construction engineering experience, including many recent LaDOTD LPA CE&I road projects. Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger. Licensed Professional Traffic Operations Engineer with significant experience coordinating, designing, inspecting, and adjusting temporary traffic control to promote motorist, pedestrian, and worker safety within active construction zones. Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course. Completed Louisiana State Civil Service CPTP SCS Cybersecurity WBT. 		
05/23 – 01/24	S.P. No. H.011779.6 Power Blvd Median Improvements Owner: City of Kenner (LaDOTD LPA project). Scope: Installation of a multi-use path and landscaping in the median of Power Blvd. as well as a pedestrian/bicyclist truss bridge over Canal No. 1. Cost: ≈\$3,400,000. Role: Project Manager and Lead Construction Engineer. Led construction engineering and inspection. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; performed SiteManager duties; coordinated construction materials testing; and prepared change orders. During construction, re-evaluated the location of a pedestrian crossing at Vintage Dr. and prepared a report that identified an improved crossing location based on vehicular and pedestrian traffic data as well as existing site features.		
03/21 – 01/24	S.P. No. H.013939.6 Veterans Blvd Transit Signal Priority Owner: Jefferson Parish (LaDOTD LPA project). Scope: Installation of new traffic signal controllers and a transit signal priority system along Veterans Blvd. (32 intersections between Loyola Dr. in Jefferson Parish and Pontchartrain Blvd. in Orleans Parish and 22 Jefferson Parish Transit buses). Cost: ≈\$510,000. Role: Project Manager and Lead Construction Engineer. Managed inspectors; reviewed RFIs, submittals, and pay applications; performed SiteManager duties; coordinated priority system testing; advised on priority system requirements and operational gaps; and prepared change orders.		

Ben Bartlett, PE, PTOE (Continued)

10/23 – 01/24	<p>S.P. No. H.014317.6 Carey St. Pavement Rehabilitation Owner: City of Slidell (LaDOTD LPA project). Scope: Repair/replacement of deficient PCC pavement panels, curbs, driveways, and handicap ramps. Cost: ≈\$970,000. Role: Construction Engineer. Managed inspectors; reviewed RFIs, submittals, and pay applications; reviewed construction materials testing; developed adjustments to handicap ramps based on existing site conditions; reviewed change orders; and reviewed project closeout documentation.</p>
06/10 – 09/14	<p>St. Charles Parish Road Maintenance Program Owner: St. Charles Parish. Scope: Annual inspection of all St. Charles Parish owned roadways for the repair/replacement of deficient roadways. Cost: ≈\$1,500,000 annually. Role: Program Manager and Lead Construction Engineer. Led inspections and updated the Parish's roadway inventory database. Developed roadway repair/replacement priority lists for the verifiable expenditure of state/federal funds. Designed asphaltic concrete pavement mill/overlay and patching, PCC pavement panel replacement, sidewalk modifications, ADA compliant ramps, and utility adjustments. Managed inspectors; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.</p>
01/21 – 06/23	<p>Rehabilitation of Ramps 6, 7, and Overpass of Causeway Boulevard at Airline Drive Owner: Jefferson Parish. Scope: Structural inspection and rehabilitation of 1950s elevated interchange (2 ramps and 4 lane overpass). Cost: ≈\$13,000,000. Role: Construction Engineer. Managed 4 inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; coordinated construction materials testing; assisted with the development of adjustments to post-installed adhesive anchor and reinforcing bar positions to avoid conflicts with existing reinforcement; coordinated emergency concrete barrier rail repairs; coordinated and developed field adjustments for emergency deck repairs to replace failed expansion joint with only weekend road closures; prepared change orders; and prepared project closeout documentation.</p>
03/19 – 09/21	<p>Lake Pontchartrain Causeway Southbound Bridge Rail Improvements Owner: GNOEC. Scope: Installation of enhanced steel bridge rails and other miscellaneous repairs (48 miles of steel rail) while maintaining ADT of over 20,000. Cost: ≈\$40,000,000. Role: Project Manager and Lead Construction Engineer. Led construction engineering and inspection. Inspected temporary lane closures of over 10 miles long and provided suggested modifications to improve motorist safety. Managed 10 inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; managed inventory for ≈\$19,000,000 of stockpiled raw materials; inspected fabricated steel posts and rails prior to installation; coordinated construction materials testing; prepared change orders; and prepared project closeout documentation.</p>
05/20 – 01/24	<p>Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue) Owner: Jefferson Parish. Scope: Widening of existing 4-lane roadway and area-wide drainage improvements (1.0 miles of roadway and drainage). Cost: ≈\$19,000,000 (est.). Role: Project Manager and Lead Civil Engineer. Designed 15-inch to 72-inch RCP drainage system, tie-ins to surrounding drainage system, asphalt pavement, concrete curb and gutter, pavement markings, sequence of construction, and temporary traffic control plan while accounting for site-related challenges, such as significant traffic demands, limited right-of-way, congestion of existing drainage and utilities, and the need to sequence construction to minimize disruptions to traffic. Prepared plans, specifications, and opinions of probable construction cost.</p>

16. Staff Experience:

Firm employed by Horizon Engineering, LLC			
Name	John Karlin, SE, PE		Years of relevant experience with this employer
Title	Co-Founder and Principal		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization	Master of Science / 2017 / Civil (Structural) Engineering Bachelor of Science / 2016 / Civil Engineering		
Active registration number / state / expiration date	PE: 44795 / LA / 3/31/2025 SE: 081-008511 / IL / 11/30/2024		
Year registered	PE: 2020 SE: 2020	Discipline	Civil Engineer and Structural Engineer Structural Engineer
Contract role(s) / brief description of responsibilities	Role: Principal-in-Charge (Satisfies MPRs 1, 2, and 3) Responsibilities: Contract administration and coordination with City of Youngsville and DOTD.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/17 – Present	<ul style="list-style-type: none"> Over 7 years of construction administration and construction engineering experience. Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger. Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course. 		
07/21 – 12/22	S.P. No. H.013897 I-10 and I-12 College Flyover Ramp Design-Build Owner: LaDOTD. Scope: Replacement of I-10 WB flyover ramp; widening and rehabilitation of I-10 WB bridge over Ward Creek; and rehabilitation of I-12 to I-10 EB ramp and Essen Lane bridge over I-12. Cost: ≈\$52,000,000. Role: Lead Structural Independent Technical Reviewer. Reviewed plans and specifications; analyzed reinforced concrete deck and barriers, 360’ skewed continuous steel plate girders, steel cross frames, PPC girders, reinforced concrete diaphragms, rolled steel girders, steel diaphragms, reinforced concrete bents, drilled shafts, and PPC piles; and identified potential design and constructability issues.		
10/23 – 01/24	S.P. No. H.004791 Belle Chasse Bridge and Tunnel Replacement (Public-Private Partnership Project) Owner: United States Army Corps of Engineers (USACE)/LaDOTD. Scope: Replacement of 2-lane vertical lift Judge Perez Bridge and 2-lane Belle Chasse Tunnel with 4-lane fixed bridge over GIWW. Cost: ≈\$134,000,000. Role: Safety Assurance Review (SAR) Panel Lead Structural Reviewer. Led structural review in accordance with USACE SAR requirements. Visited site; reviewed plans, specifications, and structural analyses/calculations for vertical lift bridge demolition, tunnel decommissioning, and replacement of tunnel flood gates with permanent floodwalls considering the effect of construction on nearby existing levees and floodwalls; and identified potential public safety issues.		
04/20 – 03/22	Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B) Owner: SLFPA-E. Scope: Fortification of the Lake Pontchartrain seawall and roadway, drainage, and lighting improvements (5.2 miles long). Cost: ≈\$50,000,000. Role: Construction Engineer. Performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.		

John Karlin, SE, PE (Continued)

01/21 – 06/23	Rehabilitation of Ramps 6, 7, and Overpass of Causeway Boulevard at Airline Drive Owner: Jefferson Parish. Scope: Structural inspection and evaluation and rehabilitation of 1950s elevated interchange (2 ramps and 4 lane overpass). Cost: ≈\$13,000,000. Role: Project Manager and Lead Construction Engineer. Managed 4 inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; coordinated construction materials testing; developed adjustments to post-installed adhesive anchor and reinforcing bar positions to avoid conflicts with existing reinforcement; coordinated emergency concrete barrier rail repairs; designed, coordinated, and developed field adjustments for emergency deck repairs to replace failed expansion joint with only weekend road closures; prepared change orders; and prepared project closeout documentation.
05/19 – 09/21	Lake Pontchartrain Causeway Southbound Bridge Rail Improvements Owner: GNOEC. Scope: Installation of enhanced steel bridge rails and other miscellaneous repairs (48 miles of steel rail) while maintaining ADT of over 20,000. Cost: ≈\$40,000,000. Role: Construction Engineer. Inspected temporary lane closures of over 10 miles long. Managed 10 inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; managed inventory for ≈\$19,000,000 of stockpiled raw materials; inspected fabricated steel posts and rails prior to installation; coordinated construction materials testing; prepared change orders; and prepared project closeout documentation.
12/21 – 01/24	Nashville Avenue Wharf “A” Substructure Repairs Phase 2 (CMAR) Owner: Port of New Orleans. Scope: Structural inspection and evaluation and rehabilitation of 1960s wharf along Mississippi River (5,375 steel piles, approximately 1,000,000 square foot reinforced concrete deck, and 2,400 foot long reinforced concrete bulkhead). Cost: ≈\$25,000,000 (est.). Role: Project Manager and Lead Structural Engineer. Led above water and underwater inspections. Managed 10 inspectors and 4 divers; evaluated CMAR contractor value engineering proposals; performed inspections; and reviewed RFIs and submittals.
04/19 – 07/20	St. Andrew Street Wharf Erosion Mitigation Project Owner: Port of New Orleans. Scope: Installation of bulkhead consisting of 50-foot long steel sheet pile wall and reinforced concrete pile cap and PCC pavement roadway repairs along the Mississippi River (1,600 feet long). Cost: ≈\$3,800,000. Role: Project Manager and Lead Construction Engineer. Led construction engineering and inspection. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.
04/23 – 01/24	US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Traffic Study Owner: Jefferson Parish. Scope: Traffic study in accordance with LADOTD TEPR requirements (14 volume count, 12 turning movement count, and 17 driveway/median opening count locations). Fee: ≈\$190,000. Role: Project Manager and Traffic Engineer. Led coordination with Jefferson Parish, LaDOTD Traffic Engineering Division, RPC, JPSO, and LSP. Prepared scope of work; managed 6 field personnel for volume count, turning movement count, and driveway/median opening count equipment installation, peak period observations, and geometric field review; and reviewed peak period, peak hour, unmet demand, balanced volumes, and unbalanced and balanced volume maps.

16. Staff Experience:

Firm employed by Horizon Engineering, LLC			
Name	Jeff Puissegur		Years of relevant experience with this employer
Title	Senior Inspector		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Bachelor of Arts / 1999 / Social Science Associate of Arts / 1996 / Business Management	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Role: Primary Inspector Responsibilities: Inspection and construction documentation (including HeadLight and SiteManager duties).	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
2008 – Present	<ul style="list-style-type: none"> Over 16 years of inspection experience, including many recent LaDOTD LPA CE&I road projects. Certified by LaDOTD in HMA (Asphalt Concrete) Paving, Embankment and Base Course, and PCC Paving Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger. 		
05/19 – 08/20	S.P. No. H.011798.6 Airline Park Blvd (Camphor – W Napoleon) Owner: Jefferson Parish (LaDOTD LPA project). Scope: Replacement of asphalt roadway and PCC pavement roadway (including curb, driveways, sidewalks, and curb ramps); drainage, sewer, and water improvements; and installation of drainage pump station and associated canal bank sheeting and riprap. Cost: ≈\$6,000,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily work records (DWRs); assisted with materials sampling and coordination of construction materials testing; assisted with the review of RFIs; assisted with the development of adjustments to utilities and drop inlets, manholes, and other drainage structures in the roadway; prepared redline as-built plans; and assisted with the preparation of project closeout documentation.		
06/23 – 12/23	S.P. No. H.014315.6 Grafton Drive Pavement Rehabilitation Owner: City of Slidell (LaDOTD LPA project). Scope: Repair/replacement of deficient PCC pavement panels, curb, driveways, and curb ramps. Cost: ≈\$1,000,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily work records (DWRs); assisted with materials sampling and coordination of construction materials testing; assisted with the review of RFIs; assisted with the development of adjustments to drop inlets, manholes, and other drainage structures in the roadway; prepared redline as-built plans; and assisted with the preparation of project closeout documentation.		
11/23 – 02/24	S.P. No. H.014317.6 Carey St. Pavement Rehabilitation Owner: City of Slidell (LaDOTD LPA project). Scope: Repair/replacement of deficient PCC pavement panels, curb, driveways, and curb ramps. Cost: ≈\$970,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily work records (DWRs); assisted with materials sampling and coordination of construction materials testing; assisted with the review of RFIs; assisted with the development of adjustments to drop inlets, manholes, and other drainage structures in the roadway; prepared redline as-built plans; and assisted with the preparation of project closeout documentation.		

Jeff Puissegur (Continued)

01/22 – 02/23	<p>S.P. No. H.007273.6 – Magazine St (Leake Ave to East Drive) Owner: City of New Orleans (LaDOTD LPA project). Scope: Replacement of asphalt roadway with PCC pavement roadway (including curb, driveways, sidewalks, and curb ramps) and drainage, sewer, and water improvements. Cost: ≈\$4,500,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily work records (DWRs); assisted with materials sampling and coordination of construction materials testing; assisted with the review of RFIs; assisted with the development of adjustments to utilities and drop inlets, manholes, and other drainage structures in the roadway; prepared redline as-built plans; and assisted with the preparation of project closeout documentation.</p>
01/13 – 04/16	<p>Jefferson Parish Submerged Roadways Program Owner: Jefferson Parish. Scope: Evaluation of Hurricane Katrina related roadway damage and repair/replacement of deficient roadways (85 PCC pavement streets and 8 miles of asphaltic concrete roadway). Cost: ≈\$50,000,000. Role: Inspector. Performed inspections; reviewed quantities; prepared daily work records (DWRs); assisted with coordination of construction materials testing; assisted with the review of RFIs; assisted with the development of adjustments to drop inlets, manholes, and other drainage structures in the roadway; and assisted with the preparation of project closeout documentation.</p>
09/16 – 02/17	<p>S.P. No. H.007277.6 Lake Forest Boulevard Owner: City of New Orleans (LaDOTD LPA project). Scope: Replacement of PCC pavement roadway; asphalt roadway milling and overlay; and drainage, sewer, and water improvements. Cost: ≈\$490,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily work records (DWRs); assisted with materials sampling and coordination of construction materials testing; assisted with the review of RFIs; assisted with the development of adjustments to utilities and drop inlets, manholes, and other drainage structures in the roadway; prepared redline as-built plans; and assisted with the preparation of project closeout documentation.</p>
01/21 – 12/21	<p>Milneburg Group B (FRC) Streets Owner: City of New Orleans. Scope: Replacement of asphalt roadway and drainage, sewer, and water improvements. Cost: ≈\$7,400,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily work records (DWRs); assisted with materials sampling and coordination of construction materials testing; assisted with the review of RFIs; assisted with the development of adjustments to utilities and drop inlets, manholes, and other drainage structures in the roadway; prepared redline as-built plans; and assisted with the preparation of project closeout documentation.</p>
07/16 – 05/20	<p>Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B) Owner: SLFPA-E. Scope: Fortification of the Lake Pontchartrain seawall and roadway, drainage, and lighting improvements (5.2 miles long). Cost: ≈\$50,000,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily work records (DWRs); assisted with coordination of construction materials testing; assisted with the review of RFIs; and assisted with the preparation of project closeout documentation.</p>

16. Staff Experience:

Firm employed by Horizon Engineering, LLC				
Name	Anthony St. Philip		Years of relevant experience with this employer	<1
Title	Senior Inspector		Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization			Bachelor of Science / 1980 / Industrial Management Technology	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Role: Backup Inspector Responsibilities: Assist Primary Inspector with inspection and construction documentation.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 – Ongoing	RR 215: Dillard Group A & B (RR031/RR032) Owner: City of New Orleans. Scope: Road reconstruction, asphalt milling and overlay, road patching, and associated drainage, sewer, and water improvements for 188 city blocks in the vicinity of Dillard University. Cost: ≈\$40,000,000. Role: Lead Inspector. Inspected base course installation, PCC pavement installation, asphalt milling and overlay, asphalt patching, PCC pavement patching; drainage pipe, drainage structure, curb, driveway, and sidewalk installation; and pavement marking installation. Reviewed quantities; prepared daily reports; assisted with coordination of construction materials testing; assisted with the review of RFIs; and assisted with the preparation of project closeout documentation.			
06/21 – 12/21	Milneburg Group B (FRC) Streets Owner: City of New Orleans. Scope: Replacement of asphalt roadway and drainage, sewer, and water improvements. Cost: ≈\$7,400,000. Role: Inspector. Performed inspections; reviewed quantities; prepared daily reports; assisted with materials sampling and coordination of construction materials testing; assisted with the review of RFIs; assisted with the development of adjustments to utilities and drop inlets, manholes, and other drainage structures in the roadway; prepared redline as-built plans; and assisted with the preparation of project closeout documentation.			
05/20 – 06/21	Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B) Owner: SLFPA-E. Scope: Fortification of the Lake Pontchartrain seawall and roadway, drainage, and lighting improvements (5.2 miles long). Cost: ≈\$50,000,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily reports; assisted with coordination of construction materials testing; assisted with the review of RFIs; and assisted with the preparation of project closeout documentation.			
05/10 – 05/14	Tidewater Road Reconstruction Owner: Plaquemines Parish. Scope: Construction of new 12” concrete road outside of flood protection (3 feet higher than original road to reduce flooding), detour road, and waterline relocation (≈2.5 miles long). Cost: ≈\$20,000,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily work records (DWRs); assisted with coordination of construction materials testing; assisted with the review of RFIs; and assisted with the preparation of project closeout documentation.			

Anthony St. Philip (Continued)

06/21 – 02/22	RR133 and RR136 Pines Village Group A and Plum Orchard Group D Waterline Replacement Program Owner: SWBNO. Scope: Replacement of water mains and house connections (8,000' of 8" diameter and 2,400' of 12" diameter water mains). Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily reports; assisted with coordination of construction materials testing; assisted with the review of RFIs; and assisted with the preparation of project closeout documentation.
09/05 – 09/07	17th Street Canal Floodwall Breach Repairs (Emergency, Interim, and Permanent) Owner: USACE. Scope: Emergency closure of floodwall breach, interim sheet pile at Old Hammond Highway Bridge and breach, interim pump station (2,500 CFS to 4,000 CFS to 7,500 CFS in 3 phases), and permanent T-wall to replace breached I-wall, all under a significantly compressed schedule. Cost: ≈\$150,000,000. Role: Lead Inspector. Performed inspections; reviewed quantities; prepared daily reports; assisted with coordination of construction materials testing; assisted with the review of RFIs; and assisted with the preparation of project closeout documentation.
02/22 – 06/22	Nashville Avenue Wharf "A" Substructure Repairs Phase 2 (CMAR) Owner: Port of New Orleans. Scope: Structural inspection and rehabilitation of 1960s wharf along Mississippi River (5,375 steel piles, approximately 1,000,000 square foot reinforced concrete deck, and 2,400 foot long reinforced concrete bulkhead). Cost: ≈\$25,000,000 (est.). Role: Inspector and Quality Assurance Reviewer. Inspected steel pipe piles, H-piles, tube piles, and associated bracing; grouted FRP pile jackets and concrete pile jackets; reinforced concrete drop panels, pile caps, bottom of deck, and bulkhead; and timber fender piles from both land and water in accordance with ASCE MOP 130 and project specific criteria. Performed quality assurance review of inspection data, including damage ratings, photos, and notes.

16. Staff Experience:

Firm employed by Horizon Engineering, LLC				
Name	Evan Mire		Years of relevant experience with this employer	<1
Title	Inspector		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			Bachelor of General Studies / 2013	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Role: Backup Inspector Responsibilities: Assist Primary Inspector with inspection and construction documentation.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/21 – 02/23	Rehabilitation of Ramps 6, 7, and Overpass of Causeway Boulevard at Airline Drive Owner: Jefferson Parish. Scope: Structural inspection and evaluation and rehabilitation of 1950s elevated interchange (2 ramps and 4 lane overpass). Cost: ≈\$13,000,000. Role: Inspector. Performed inspections; reviewed quantities; prepared daily reports; assisted with coordination of construction materials testing; assisted with the review of RFIs; assisted with the development of adjustments to post-installed adhesive anchor and reinforcing bar positions to avoid conflicts with existing reinforcement; assisted with the inspection, coordination, and development of field adjustments for emergency deck repairs to replace failed expansion joint with only weekend road closures; and assisted with the preparation of project closeout documentation.			
10/19 – 01/21	Lake Pontchartrain Causeway Southbound Bridge Rail Improvements Owner: GNOEC. Scope: Installation of enhanced steel bridge rails and other miscellaneous repairs (48 miles of steel rail) while maintaining ADT of over 20,000. Cost: ≈\$40,000,000. Role: Inspector. Inspected temporary lane closures of over 10 miles long; performed inspections; reviewed quantities; prepared daily reports; assisted with coordination of construction materials testing; and assisted with the review of RFIs.			
05/22 – 06/22	Nashville Avenue Wharf “A” Substructure Repairs Phase 2 (CMAR) Owner: Port of New Orleans. Scope: Structural inspection and evaluation and rehabilitation of 1960s wharf along Mississippi River (5,375 steel piles, approximately 1,000,000 square foot reinforced concrete deck, and 2,400 foot long reinforced concrete bulkhead). Cost: ≈\$25,000,000 (est.). Role: Inspector. Inspected steel pipe piles, H-piles, tube piles, and associated bracing; grouted FRP pile jackets and concrete pile jackets; reinforced concrete drop panels, pile caps, and bottom of deck; and timber fender piles from both land and water in accordance with ASCE MOP 130 and project specific criteria.			
04/23 – 05/23	US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Traffic Study Owner: Jefferson Parish. Scope: Traffic study in accordance with LADOTD TEPR requirements (14 volume count, 12 turning movement count, and 17 driveway/median opening count locations). Fee: ≈\$195,000. Role: Field Technician. Installed and removed volume count, turning movement count, and driveway/median opening count equipment.			

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Past Performance Evaluation Discipline(s)*	CE&I/OV	
Project name	Independent Technical Review of Lakefront Airport Pump Station Temporary Retaining Structure Design			Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	RNGD		
Project location	New Orleans, Louisiana		Owner's Project Manager	Stephen Abadie	
Owner's address, phone, email	1730 Tchoupitoulas Street, New Orleans, LA 70130 / (504) 620-8022 / sabadie@rngd.com				
Services commenced by this firm (mm/yy)	05/24	Total consultant contract cost (\$1,000's)			22
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)			22

Horizon Engineering, LLC (Horizon) performed an independent technical review (ITR) of the Lakefront Airport pump station temporary retaining structure (TRS) design. The TRS is required to facilitate construction of an approximately 123'x43'x28' deep reinforced concrete reservoir for a future 600 CFS pump station. The TRS is used to stabilize a 45' deep excavation in soft clays outside of flood protection prior to construction of the seal slab and reservoir. Horizon reviewed the TRS design and calculations and associated plans, specifications, geotechnical report, and construction phase geotechnical investigation information. Horizon prepared independent calculations for approximate TRS force effects and TRS components, including sheeting, walers, and struts, and a report summarizing the independent technical review. Horizon is currently performing an ITR of the revised TRS design.

Firm Members Involved: John Karlin and Ben Bartlett

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	Zellwood Station Phase 3			Firm responsibility (prime or sub?) Prime
Project number	N/A	Owner's name	Zellwood Development Group, LLC	
Project location	Zellwood, Florida		Owner's Project Manager	Steve MacGeorge
Owner's address, phone, email	2893 Upland Ridge, Chuluota, FL 32766 / (321) 356-1802 / stevemacgeorge@smacgeorge.com			
Services commenced by this firm (mm/yy)	03/24	Total consultant contract cost (\$1,000's)		72
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		72

The Zellwood Site consists of approximately 10.4 acres and is located on the east side of W. Orange Blossom Trail (US 441). Horizon Engineering, LLC (Horizon) prepared a conceptual planning study to investigate the subdivision of the site, drainage requirements, and improvements to access from US 441 and is currently completing the final design. Horizon's duties included:

- Review of site zoning information/maps, topographic and boundary surveys, traffic studies, and geotechnical investigations and reports.
- Preparation of preliminary site plans illustrating potential configurations of commercial lots within the site.
- Hydrologic and hydraulic modeling, analysis, and design to determine subsurface drainage and detention pond requirements for multiple configurations of the site.
- Coordination with the Florida Department of Transportation (FDOT), Federal Aviation Administration (FAA), and St. Johns River Water Management District.
- Investigation of potential improvements to access from US 441, including the feasibility of widening the existing shared driveway and adding new driveways, turn lanes, and/or a signalized intersection.
- Coordination and relocation of utilities.
- Permitting assistance.
- Preparation of final plans and specifications, including site grading; subsurface drainage and detention pond; widening of existing driveway, new Portland Cement Concrete (PCC) pavement driveway, concrete curbs, sidewalks, curb ramps, and pavement markings; potential signalized intersection and associated median modifications; and other miscellaneous features.
- Construction support.

Firm Members Involved: Brett Liuzza, Ben Bartlett, and John Karlin

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	Zellwood Station Phase 3 Traffic Study			Firm responsibility (prime or sub?) Prime
Project number	N/A	Owner's name	Zellwood Development Group, LLC	
Project location	Zellwood, Florida		Owner's Project Manager	Steve MacGeorge
Owner's address, phone, email	2893 Upland Ridge, Chuluota, FL 32766 / (321) 356-1802 / stevemacgeorge@smacgeorge.com			
Services commenced by this firm (mm/yy)	08/24	Total consultant contract cost (\$1,000's)		54
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		54

The Zellwood Site consists of approximately 10.4 acres and is located on the east side of W. Orange Blossom Trail (US 441). Horizon Engineering, LLC (Horizon) is currently completing a traffic study to evaluate access to the site from US 441 in accordance with Florida Department of Transportation (FDOT) requirements. Horizon's duties include:

- Review existing volume counts, turning movement counts, and driveway/median opening counts along US 441
- Review crash data along US 441, perform crash data analysis, and prepare collision diagrams
- Perform traffic signal warrant analysis
- Estimate increased traffic volume due to development of site
- Evaluate sight distance requirements
- Prepare conceptual layouts for multiple alternatives, including signalized intersection with new left turn lane from US 441, median openings, driveways, and adjustments to timing of adjacent traffic signals
- Prepare preliminary temporary traffic control plans, highway and driveway plan and profile, and cross sections
- Prepare preliminary drainage calculations
- Coordinate with FDOT
- Perform Intersection Control Evaluation (ICE)

Firm Members Involved: Ben Bartlett, Brett Liuzza, and John Karlin

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Past Performance Evaluation Discipline(s)*	CE&I/OV	
Project name	Hogshead Road Temporary Facilities			Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	S. A. Casey Construction		
Project location	Apopka, Florida		Owner's Project Manager	Shawn Casey	
Owner's address, phone, email	2822 Commerce Park Drive, Suite 400, Orlando, FL 32819 / (407) 240-6775 / scasey@sacaseyconstruction.com				
Services commenced by this firm (mm/yy)	05/24	Total consultant contract cost (\$1,000's)			2
Services completed by this firm (mm/yy)	05/24	Cost of consultant services provided by this firm (\$1,000's)			2

Horizon Engineering, LLC prepared site plans for the installation of temporary facilities for construction on an approximately 3-acre site, including field office, utilities (including 28,000-gallon water tank), storage, and parking. The site plans were used to facilitate permitting for the project.

Firm Members Involved: Brett Liuzza

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Past Performance Evaluation Discipline(s)*	[REDACTED]	
Project name	N/A			Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	N/A		
Project location	N/A		Owner's Project Manager	N/A	
Owner's address, phone, email	N/A				
Services commenced by this firm (mm/yy)	N/A	Total consultant contract cost (\$1,000's)			N/A
Services completed by this firm (mm/yy)	N/A	Cost of consultant services provided by this firm (\$1,000's)			N/A

18. Approach and Methodology:

S. Larriviere Rd. is a major corridor that provides access to Southside High School and serves as the only access to many residential properties. State Project No. H.012867 (S Larriviere Rd: LA 92 – Chemin Metairie) will reconstruct/widen approximately 1.20 miles of this important asphalt road from Young St./LA 92-1 to Chemin Metairie Pkwy. to provide a center turn lane. Tree removal, installation of curb and gutter, replacement of ditches with subsurface drainage, and guard rail replacement will be necessary. Additionally, utility adjustments and lowering of the road to facilitate drainage from adjacent properties may also be necessary. Horizon Engineering, LLC (Horizon) has already visited the project site and identified the following challenges that will need to be addressed during construction to deliver a successful project.

1. LIMITED RIGHT-OF-WAY

S. Larriviere Rd. is extremely narrow, with ditches on either side; obstructions, such as power poles and trees, at the north end; Southside High School at the south end; many residential driveways; and a bridge crossing LaSalle Coulee (see Figure 1). Each of these features presents potential safety concerns that must be reviewed during progress meetings and daily JSAs.



Figure 1: Limited Right-of-Way

Night work with flaggers and/or temporary traffic signals will likely be required when one lane of traffic must be closed. Temporary protective measures, such as barriers, may also be required at the bridge crossing LaSalle Coulee after the guard rails have been removed until they have been replaced. Additionally, many utilities are present within the right-of-way, including overhead power lines, water, sewer, telecommunications, and natural gas liquid (NGL) pipelines (see Figure 2).



Figure 2: Utilities – Telecommunications (Left) and NGL Pipelines (Right)

Horizon will emphasize to the Contractor the importance of careful operation of equipment and proper implementation of temporary traffic control, including the proper use of flaggers and/or temporary traffic signals if necessary, to maintain safety of the public and avoid damage to existing utilities.

2. CONSTRUCTION QUALITY

The quality of construction of an asphalt road has a major impact on its durability, longevity, and rideability. Two common factors that must be considered are:

- Potholes and other similar localized failures typically occur due to underlying base issues, such as poor compaction and

inadequate drainage. Depressions and cracking can also occur due to poor asphalt compaction and joint construction. Horizon will review the borrow pit testing reports, verify that approved materials are delivered to the site, inspect base installation and compaction (including performing compaction testing), and inspect asphalt laying and compaction.

- Delamination, slippage, and other similar bond failures typically occur due to poor adhesion between the wearing course and binder course. After sweeping, and immediately prior to tack coat application and laying of the wearing course, Horizon will inspect the binder course surface to ensure that it is dry and has been adequately prepared/cleaned to remove debris and other bond-inhibiting contaminants.

3. EQUIPMENT LOADS

Large asphalt laying equipment, such as sweepers, dump trucks, pavers, and rollers, will be required to lay the asphalt road. Due to the narrow road width and presence of ditches and buried utilities on each side, the Contractor will need to exercise extreme caution when operating their equipment to avoid slope failures and/or utility damage. Horizon will closely observe the Contractor's equipment usage and inspect the ground surface for any significant changes to its preexisting condition.

4. PROPERTY ACCESS AND TRAFFIC

Many residential and some commercial properties are accessed solely via Larriviere Rd.; therefore, a well-designed sequence of construction and temporary traffic control plan (likely including night work, flaggers, and/or temporary traffic signals), will be required to minimize disruptions to the public. Additionally,

a major driveway for Southside High School is located near the south end of the road. Temporary driveway access will need to be provided to all properties within the project limits. If the Contractor plans to temporarily close the entire road during night shifts, provisions will be required to open the road to emergency vehicles if necessary. Detours within the project limits may be possible; however, they are not preferred since they would direct traffic through primarily residential areas. Horizon will assist the Contractor and City of Youngsville with notifying impacted properties of the anticipated start date, duration, and impacts of the work and issuing timely lane/road closure notices. Horizon will also assist with continuous coordination with Southside High School to minimize disruptions to school drop-off and pick-up. Additionally, Horizon will inspect the temporary traffic control signs and devices to ensure that they are correctly implemented, monitored, and maintained.

5. DRAINAGE

During construction, portions of the existing ditches (see Figure 3) will be obstructed; therefore, temporary bypass pumps will likely be required to maintain drainage. Horizon will verify that bypass pumps are adequate and operational and that additional precautionary measures are taken in advance of anticipated inclement weather.

STAFFING PLAN

Horizon's Project Engineer, Brett Liuzza, has recently worked on many DOTD LPA CE&I road projects, including coordinating with businesses and residents and adjusting drainage and utilities. He will direct a primary certified inspector for the project, with two backup uncertified inspectors available if needed to accommodate the Contractor's manpower allocation, construction schedule, work hours, and other similar factors. He will remain in constant contact with the

inspector(s) and always be available to visit the site if needed. Horizon's Primary Inspector, Jeff Puissegur, is certified by DOTD in Embankment and Base Course, HMA (Asphalt Concrete) Paving, and PCC Paving and has worked with Brett Liuzza on many recent asphalt road projects, including DOTD LPA CE&I road projects.



Figure 3: Existing Drainage

CE&I SCOPE OF WORK

Horizon fully understands the scope of work and will complete all 23 tasks listed in Attachment A of the Advertisement in accordance with project specific requirements, such as the Specifications and Sampling Plan, and applicable DOTD standards, procedures, and requirements, such as Consultant Contract Services Manual, Local Public Agencies Manual, Construction Contract Administration Manual, Materials Sampling Manual, Testing Procedures Manual, Quality Assurance Manuals, and EDSMs. Horizon will implement the following approach and methodology, which highlights the major tasks required but is not all-inclusive, to complete the project safely, correctly, on time, and in accordance with City of Youngsville and DOTD's requirements:

PRE-CONSTRUCTION PHASE

- **Submit QA/QC Plan:** Submit Horizon's QA/QC plan to City of Youngsville and DOTD.
- **HeadLight and SiteManager Access:** Set up access to HeadLight and SiteManager for all engineers and inspectors. All inspectors will be equipped with an iPad and laptop with cellular data for field access to HeadLight and SiteManager, respectively.
- **Document Review:** Review the Construction Contract, Plans, Specifications, Sampling Plan, permits, and all other applicable specifications, standards, manuals, testing procedures, and EDSMs.
- **Project Set-Up Meeting:** Meet with City of Youngsville's Responsible Charge and Project Manager and DOTD's Project Coordinator and District 03 Lab Engineer to review roles, responsibilities, and expectations; Entity-State Agreement and Construction Contract; compliance goals; Construction Contract Administration Manual; HeadLight and SiteManager; Sampling Plan and QA/QC materials testing requirements; preconstruction conference schedule and agenda; progress schedule review procedure; inspection requirements; final audit checklist; partial estimates and change orders; and Notice to Proceed requirements.
- **Preconstruction Conference:** Meet with City of Youngsville's Responsible Charge and Project Manager; DOTD's Project Coordinator, Compliance Office, District 03 Utility Specialist, and District 03 Lab Engineer; FHWA; Engineer of Record; Contractor and subcontractors; utility companies; and other pertinent stakeholders in accordance with DOTD EDSM III.1.1.7. Prepare agenda and meeting minutes and distribute meeting minutes to all attendees.

CONSTRUCTION PHASE

- **General Inspection:** Continuously inspect construction operations to ensure that work is completed using approved materials in accordance with the Plans, Specifications, and change orders/field changes (if applicable).
- **TTC Inspection:** Inspect temporary traffic control signs and devices for conformance with the approved Traffic Control Plan (TCP), DOTD Standard Plans, and MUTCD.
- **Erosion Control Inspection:** Inspect erosion control devices for conformance with DOTD Standard Plans.
- **Precast Materials Inspection:** Inspect precast materials (if any), such as drainage structures, for any damage occurring during transportation.
- **Inspection Documentation:** All inspection observations, including photos and notes, will be recorded using HeadLight and uploaded to SiteManager in accordance with DOTD procedures. Any deficiencies and associated corrections made by the Contractor will be documented.
- **Materials Sampling and Testing:** Obtain material samples in accordance with the Sampling Plan, Materials Sampling Manual, and pertinent Quality Assurance Manuals. Log all samples, material tickets, and reports into HeadLight and SiteManager as applicable and submit samples to the DOTD District 03 Testing Laboratory for testing. Horizon has access to a qualified, third-party independent testing laboratory. If requested by DOTD, our testing laboratory will test samples in accordance with applicable DOTD testing procedures and as required by the Specifications.
- **Daily Work Records (DWRs):** Prepare detailed DWRs, including on non-working days, describing the Contractor's personnel

and equipment; Horizon's personnel; completed tasks/quantities, accepted work, and nonconforming work; condition of TTC signs and devices and erosion control devices; material tickets, samples obtained, field tests performed, and field test results; utility conflicts; charging of Contract Time and weather conditions; safety violations; and significant out of the ordinary events (e.g., accidents). The Contractor will be immediately notified of any safety violations or nonconforming work. Depending on the severity of any safety violations, work will be shut down immediately to avoid further danger to the public or property damage. All DWRs will be prepared using HeadLight and uploaded to SiteManager.

- **Clarifications of Plans and Specifications:** Verify that the Contractor has a current set of Plans and Specifications with all relevant addenda, RFIs, submittals, change orders, and other supplemental guidance. Assist the Contractor with the interpretation of the Plans and Specifications and notify the Contractor immediately of nonconforming work.
- **Permit Compliance:** Maintain copies of all permits on the project site and review the Contractor's operations for conformance with such permits.
- **Utility Relocations:** Coordinate the relocation of utilities that conflict with the work with the Contractor, respective utility company, and City of Youngsville.
- **Coordination:** Continuously coordinate with stakeholders, including the preconstruction conference attendees. Meet with City of Youngsville and DOTD when requested at their offices or on the project site. Coordinate with the Contractor to distribute lane/road closure notifications to local media outlets upon approval by City of Youngsville.

- **Monthly Progress Reports:** Prepare monthly progress reports describing the construction progress to date, Contract Time elapsed, and the number and value of approved change orders.
- **Bi-Weekly Progress Meetings:** Meet with project team members, including the preconstruction conference attendees as applicable. Prepare agenda and meeting minutes and distribute meeting minutes to all attendees within five (5) days of the applicable progress meeting.
- **Requests for Information (RFIs) and Submittals:** Review RFIs and submittals and forward them to other parties, such as City of Youngsville and the Engineer of Record, for input if necessary. Maintain logs of all RFIs and submittals with information such as the date submitted, number, description, status, and date resolved (if applicable).
- **Email Correspondence:** Coordinate with other parties to prepare email distribution lists for different aspects of the work. Horizon will be included on all email distribution lists to allow for all email correspondence to be properly logged into the official project record for future access by DOTD.
- **Testing Reports:** Review all testing reports and evaluate the conformance of materials to the Plans and Specifications. Testing reports, as well as notices of nonconformance if necessary, will be distributed to all relevant parties.
- **Notices of Nonconformance:** Identify work that does not conform with the Plans and/or Specifications and notify City of Youngsville. Prepare and distribute notices of nonconformance and monitor remediation efforts to ensure that nonconforming work is repaired or replaced to the satisfaction of City of Youngsville.

- **Baseline and Progress Schedules:** Review the Contractor's baseline schedule for conformance to the Specifications and feasibility. Review the Contractor's progress schedules to determine if they accurately reflect the work progress and identify potential delays to construction due to the sequence of the work or inadequate progress on critical path items.
- **Monthly Pay Estimates:** Verify all completed quantities, including the dates of completion. Review monthly pay estimates for conformance with the Specifications and consistency with the actual work correctly completed. Horizon's Project Engineer and inspector(s) will review completed quantities and their applicable specification provisions as part of continuous coordination between the office and field to ensure proper payment for completed work.
- **Field Changes:** Coordinate field changes with City of Youngsville, the Engineer of Record, and the Contractor. Maintain detailed records documenting all changes or variations from the Plans and Specifications and redline Plans to document such changes/variations.
- **Change Orders:** If necessary, review change order requests to determine if they contain adequate supporting documentation and

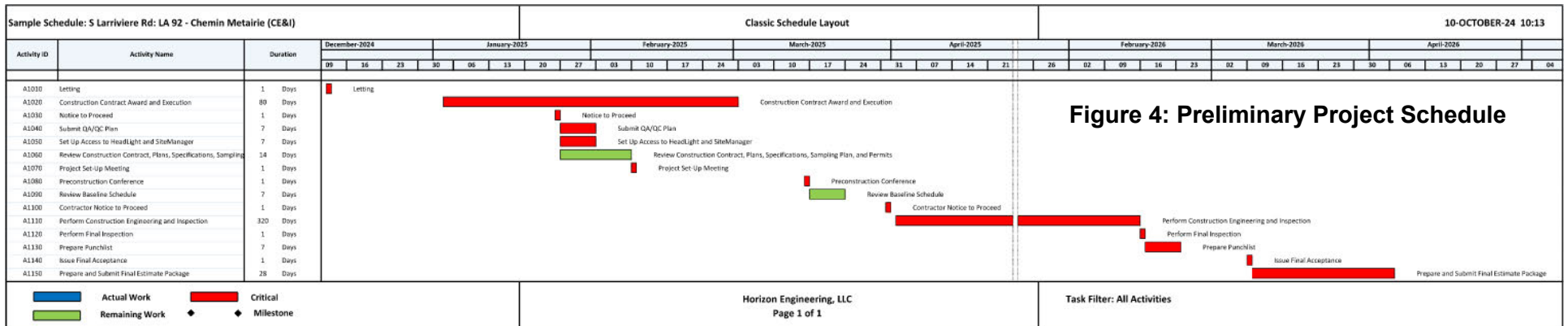
justification of additional labor, materials, equipment, tools, incidentals, overhead, and profit costs and additional contract time. Prepare description of change orders, upload change orders with backup documentation to SiteManager, and forward requests to City of Youngsville and DOTD for approval.

- **Claims:** Monitor, document, and review claims from the Contractor and provide recommendations to City of Youngsville and DOTD regarding the disposition of claims.
- **Compliance:** Review documents, such as certified payrolls and 1391 Form (Contractor's Annual EEO Report) if applicable, to ensure compliance with federal requirements.

POST-CONSTRUCTION PHASE

- **Final Inspection:** Upon notification from the Contractor of project completion, perform final inspection with the Contractor, City of Youngsville, and DOTD.
- **Punchlist:** Prepare detailed punchlist indicating deficient and/or incomplete work that must be corrected and/or completed prior to final acceptance.
- **Final Acceptance:** Upon correct completion of punchlist work, issue final acceptance in consultation with City of Youngsville and DOTD and in accordance with EDSM III.5.1.5.

- **As-Built Plans:** Prepare as-built plans using 746-12 Tuscan red pencil on plan sheets, noting modifications from the original plans incorporated via change order or field change.
- **Contract Materials Audit Report (2059):** Prepare Contract Materials Audit Report (2059), including summary report from SiteManager Materials, Sampling Plan, Errors and Omissions Report, Disposition of Failing Samples, Job Mix Formulas/Concrete Mix Designs (including lot percentage pay data and cores/cylinders report) as applicable, Independent Assurance Sampling and Testing report as applicable, Reinforcing Steel Bar Data as applicable, and Striping Reflectivity Test Report as applicable. Address any failed tests by indicating reasons that affected materials are acceptable (e.g., additional testing performed, change order issued, etc.).
- **Final Estimate Package:** Within 60 days of final acceptance, prepare the final estimate package and submit to DOTD's Construction Audit Section, including the schedule of work items; recap of weather and working days; all field observations/notes and DWRs; as-built plans; all project correspondence (in and out); construction layout; Contract Materials Audit Report (2059); change orders; final acceptance letter; traffic control log; and transmittal sheet.

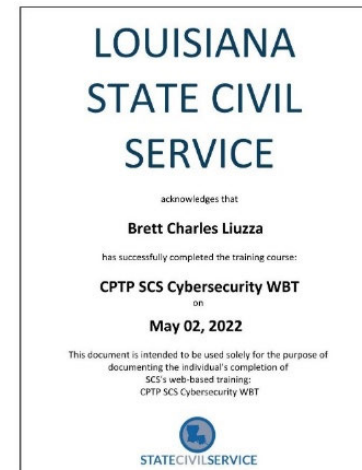
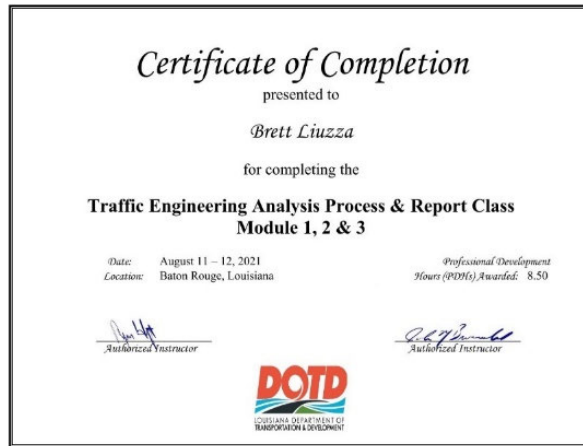


19. Workload:

Firm(s) <u>ALL FIRMS</u> MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Horizon Engineering, LLC	N/A	N/A	N/A	N/A

20. Certifications/Licenses:

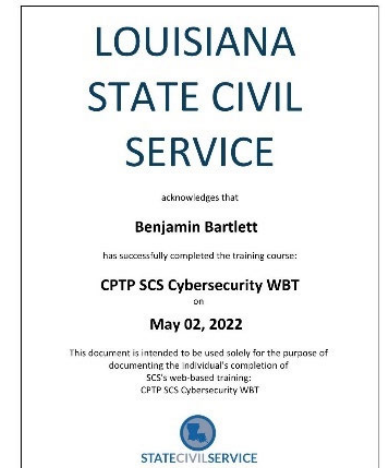
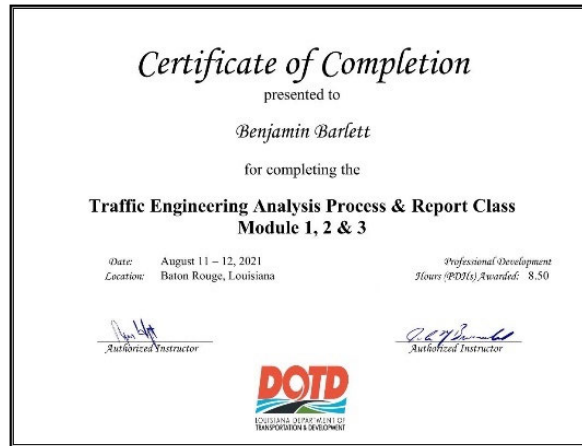
Brett Liuzza, PE



HORIZON ENGINEERING, LLC

20. Certifications/Licenses:

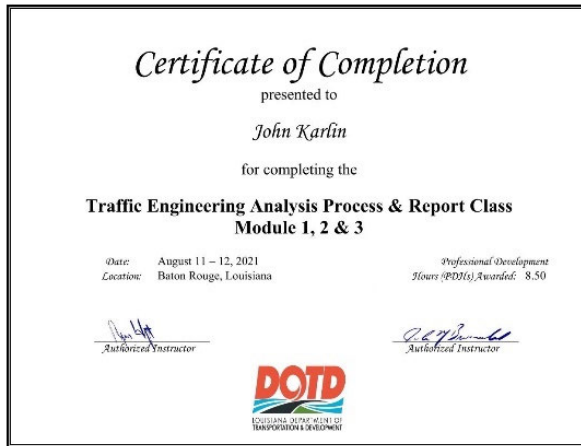
Ben Bartlett, PE, PTOE



HORIZON ENGINEERING, LLC

20. Certifications/Licenses:

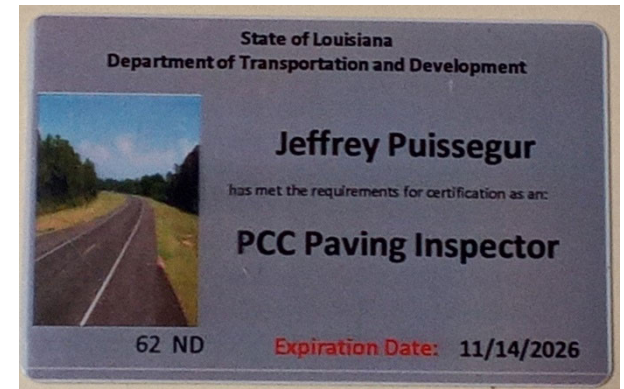
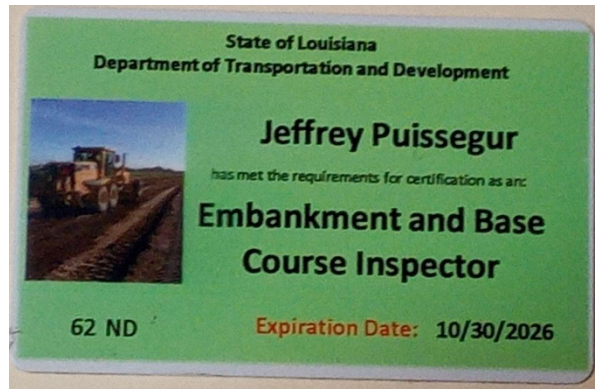
John Karlin, SE, PE



HORIZON ENGINEERING, LLC

20. Certifications/Licenses:

Jeff Puissegur



20. Certifications/Licenses:

Firm Registration with Louisiana Secretary of State



Louisiana

SECRETARY OF STATE

NANCY LANDRY



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Name	Type	City	Status
HORIZON ENGINEERING, LLC	Limited Liability Company	METAIRIE	Active

Previous Names

Business: HORIZON ENGINEERING, LLC

Charter Number: 45713383K

Registration Date: 12/14/2023

Domicile Address

1013 N. CAUSEWAY BLVD.

STE 201

METAIRIE, LA 70001

Mailing Address

1013 N. CAUSEWAY BLVD.

STE 201

METAIRIE, LA 70001

Status

Status: Active

Annual Report Status: In Good Standing

File Date: 12/14/2023

Last Report Filed: N/A

Type: Limited Liability Company

Horizon Engineering, LLC

HORIZON ENGINEERING, LLC

21. QA/QC Plan:

If the advertisement requires submission of a QA/QC plan, include it here. **Otherwise, leave this section blank. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted.**

22. Sub-consultant information:

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

Firm Name (Name must match exactly as registered with Louisiana's Secretary of State (SOS): including punctuation, include screenshot(s) from SOS at the end of Section 20)	Address	Point of Contact and email address	Phone Number

(Add rows as needed)

23. Location:

If location is an evaluation criterion for this advertisement (see page 2) and the prime consultant intends to establish a local presence, describe the plan for doing so. **Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the Evaluation Criteria section of the advertisement.**