

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
<b>Ed Roethlein</b>	<b>Architecture</b>	<b>38</b>	<b>9</b>

15. FIRM NAME AND LOCATION (City and State)  
**WRA Whitman, Requardt & Associates, LLP, Baltimore, Maryland**

16. EDUCATION (DEGREE AND SPECIALIZATION) AS – Architectural Drafting and Design/Pittsburgh Technical Institute/1986	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) 1993 – Architecture Washington DC
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 2007 – LEED Accredited Professional

Ed has 38 years' professional experience in design and construction projects, with particular expertise in transit and public sector facilities. He is currently serving as the Project Manager on the On-Call Architectural Contract for Pittsburgh Regional Transit and MTA's Eastern Bus Division Redevelopment Project. He also served as Project Manager for recently completed Ocean City Public Works and Transit Facility that was completed on time and on budget with >0.7% in design change orders.

### 19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Eastern Bus Division Redevelopment, MTA, Baltimore, MD</b>	PROFESSIONAL SERVICES 2029 Projected	CONSTRUCTION (If applicable) 2029 Projected
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Building Design Project manager for redevelopment project that includes clearing the site, demolishing existing buildings, and expanding the site to approximately 8.5 acres by closing and relocating Ponca Street.  New facilities include a 2-story 77,000 square foot building that will house the Transportation and Maintenance functions, a 4000 square foot electric substation building that will house incoming power and distribution equipment, and a 181,600 square foot facility that will provide covered storage for 184 buses. The bus storage facility includes an operations area with three lanes for fare collection, bus servicing, and wash facilities. The campus is designed to accommodate a mixed fleet of diesel and BEB's as MTA transitions to a full electric fleet. The Transportation and Maintenance Building is registered with the US Green Building Council seeking LEED Silver Certification.  Employees will park on a 93,000 square foot parking deck on top of bus storage (approximately 190 spaces) and a surface lot adjacent to the Transportation and Maintenance Building (approximately 30 spaces) for administration and visitors.		
<b>Maintenance of Way, Vehicle Maintenance Facility, PRT, Pittsburgh, PA</b>	PROFESSIONAL SERVICES 2025 Projected	CONSTRUCTION (If applicable) 2025 Projected
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Project Manager for Maintenance of Way (MOW) track machine maintenance facility to be located along the Authority's East Busway. In this facility, the Authority will store and maintain light rail track maintenance vehicles such as a Tamper, Overhead Maintenance Vehicle, Regulator, Road-Rail Loader, and Speed Swing. The 10,000SF maintenance area includes 3 maintenance bays with a clear span bridge crane, and jib-style Fall Restraint System with an in-ground pit, to facilitate maintenance on top and bottom of equipment. The 7,000SF full service shop/support space includes an open shop area, small parts and bulk storage, indoor contact wire storage, lubrication systems, and personnel support including toilets, lockers, office and break area. Additional functions in the facility include a 2000SF Emergency Vehicle Garage, 1200SF Bus Operator Relief Station, and Salt Storage.		
<b>On-Call Architectural Contract, PRT, Pittsburgh Pennsylvania</b>	PROFESSIONAL SERVICES On-going	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Project Manager for contract more than 45 multi-discipline work orders at virtually every Authority facility consisting of projects that included maintenance equipment, architectural and general building improvements, and mechanical/electrical upgrades. Maintenance equipment projects include bus washers with water reclaim and cyclone vacuum systems, body shop upgrades including various sized paint booths from small components booths to full size booths for articulated buses and light rail vehicles, an engine test facility that includes a sound attenuated test room. Architectural work includes the Authority's downtown customer service center, administrative office and main lobby renovations, rehabilitation of metal membrane roofing, renovations to police areas and holding cells at Pitt Tower, escalator upgrades at downtown subway stations, and architectural lighting at the Authority's downtown subway stations. Mechanical and electrical upgrades include comprehensive building mechanical		

upgrades, major emergency power upgrades and infrastructure for Battery Electric Buses, security cameras and access control, and LED lighting upgrades at many of their main garages and facilities.

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
<b>Transit Facility Upgrades, Ocean City Public Works and Transit Facilities, Ocean City Maryland</b>	PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> 2021

(3) BRIEF DESCRIPTION *(Brief scope size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

c. Project Manager - This \$25 million Public Works and Transit Facility for the town of Ocean City includes a 36,000 square foot administration building housing multiple department staff and operations including transportation, purchasing and parts storage, and public works; a 7000 square foot Public Safety Support Building for public safety equipment and vehicles, police storage, emergency response storage, and beach patrol.

Ocean City's new articulated buses will be serviced in new maintenance bays and a new drive-through bus wash specifically design for their use in addition to the existing coach fleet. A new 41000 square foot Bus Storage Building that will house 70 buses is designed with architectural features and landscaping that provide an enhanced view from an adjacent marina and high-end condominiums.

The project site is designed to accommodate Ocean City's expanding bus fleet with articulated buses and a variety of public works vehicles. Transit operations were reorganized and optimized for safe and efficient circulation throughout the constrained site. New fuel islands for all vehicle types will align with new site circulation patterns while accommodating cleaning and maintenance procedures, such as topping off fluids during the fueling process. Fueling and cash handling operations are supported in a 3200 square foot building designed with secured facilities for cash handling operations.

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
<b>Stage II Light Rail System, PRT, Pittsburgh Pennsylvania</b>	PROFESSIONAL SERVICES 2001	CONSTRUCTION <i>(If applicable)</i> 2005

(3) BRIEF DESCRIPTION *(Brief scope size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

d. The Stage II Light Rail project includes reconstruction of the Blue Line in Pittsburgh with construction of eight new high level light rail transit stations, renovation of three existing subway stations and six existing line stations on the existing rail, expanded Operations Control Center and new rail theater. The project also included design and construction of the South Hills Village Intermodal facility that reconstructed a light rail station to accommodate the high volume of transit passengers boarding and alighting during stadium events in Pittsburgh. The station is designed as an inter-modal facility providing a transfer point for light rail, bus, and passenger vehicles The design includes a 2,200 space, seven-tier parking structure, site improvements, and traffic mitigation at six intersections. Mr. Roethlein served as the project manager for the Operations Control Center, Intermodal Station and Parking Structure, and was responsible for leading the architectural and interdiscipline design coordination and construction administration of all disciplines for work associated with station designs along the light rail line.

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
<b>Maintenance, Service, and Storage Facility, Centre Area Transit Authority, State College, Pennsylvania</b>	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> 2015

(3) BRIEF DESCRIPTION *(Brief scope size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

e. This \$30 million project expands and reconstructs every component of CATA's facility, including maintenance, vehicle storage, fueling and wash, operations and administration. The facility design is flexible with equipment that can accommodate all sizes of vehicles from cars to 60-foot articulating buses and multiple fuel types including gasoline, diesel, and CNG. Employee parking is accommodated in a four-story parking structure. The facility design is developed with phasing that will allow construction to occur without interruption to CATA's operations.