

Mr. Tim McKinney  
Facility Services Director  
211 S. Hamilton Street  
High Point, NC 27260

Arcadis G&M of North Carolina,  
Inc.  
7029 Albert Pick Road  
Suite 101  
Greensboro  
North Carolina 27409  
Tel 336 292 2271

Subject:  
City of High Point, NC  
Proposal for Engineering Services  
Facilities Services: 2020 Arc Flash Hazard Assessment

WATER

Dear Mr. McKinney:

Date:  
April 29, 2020

Arcadis G&M of North Carolina, Inc. (Arcadis) is pleased to provide this proposal for engineering services for the Facilities Services: 2020 Arc Flash Hazard Assessments.

Contact:  
Dennis Kachmarsky

## SCOPE OF SERVICES

Phone:  
704 996 9561

Conducting an Arc Flash Hazard study is crucial to the safe operation and maintenance of electrical power distribution equipment. Arcadis' overall goal will be to update previously assessed potential hazards and re-label the equipment (as necessary) so that personnel will be aware of the incident energy levels at the equipment. With this information available, staff can be fitted with the appropriate personal protective equipment (PPE) to maintain OSHA compliance when servicing the equipment.

Email:  
dennis.kachmarsky  
@arcadis.com

The scope of the project generally includes data collection of the existing electrical system at the facilities; analysis and modeling of the data collected using SKM Power Tools for Windows software; and, the delivery and installation of professionally printed arc flash labels. This work is essentially an update of previous modeling and analysis.

**ARCADIS G&M of North Carolina, Inc.**

NC Engineering License # C-1869  
NC Surveying License # C-1869

### **The arc flash analysis will be performed for the facilities listed in the attached spreadsheet.**

The arc flash analysis will evaluate the existing short circuit current contributors and the existing overcurrent protective device settings within the facilities. The software then calculates the available incident energy hazard at each node of the system. These calculations will be provided in accordance with NFPA 70E and IEEE 1584 standards, latest editions. The results of the available incident energy

hazard calculations will be provided on a permanent adhesive label that will be installed on the relevant electrical equipment with our guidance. Each label will illustrate the incident energy at that location.

### Responsibilities of the City

It is Arcadis' understanding that the City will be responsible for the following:

1. Furnish available information pertinent to the project to allow Arcadis to provide the scope of services contained herein. Specifically, City of High Point Electric Utility incoming power characteristics for each site will be provided.
2. Provide personnel to identify and open electrical panels. If facility personnel are unavailable and Arcadis staff is permitted to open panels, then Arcadis should be advised of any known interlocks that may cause disruption to power and/or control when the panel is opened.
3. Arrange safe access onto public and private property for Arcadis to perform the scope of services. Arcadis staff will follow City of High Point or Arcadis safety requirements, whichever are stricter, when on site at any City-owned facilities.

### ENGINEERING FEE

Arcadis will perform the scope of services for a total lump sum fee of \$110,000, distributed as follows.

- Facilities (City Hall, Misc.) \$35,500
- Police \$ 5,000
- Fire \$14,000
- Parks & Recreation \$48,000
- New Facilities \$ 7,500 (Fee estimated by the City)

We look forward to assisting the City of High Point in performing this Arc Flash Hazard Assessment. Please feel free to give me a call if you have any questions regarding this proposal.

Sincerely,

Arcadis G&M of North Carolina, Inc.



Dennis J. Kachmarsky, PE  
Project Manager

Copies:

Bobby Sharpe, PE

*This proposal and its contents shall not be duplicated, used or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.*

**ARCADIS G&M of North Carolina, Inc.**  
**Facilities Services: 2020 Arc Flash Hazard Assessment**

GROUP NAME	BUILDINGS IN GROUP	STREET ADDRESS	LUMP SUM FEE
<b>CITY HALL</b>	City Hall	301 E Commerce St	<b>\$10,000</b>
<b>MISCELLANEOUS</b>			<b>\$25,500</b>
	501 E. Commerce St. Radio Tower	211 S. Hamilton Street	
	Safe Haven	203 Fourth Street	
	Communication/Radio Shop	301 E. Commerce Street	
	Idol Street Property	607 Idol Street	
	Riverdale Radio Tower	5898 Riverdale Road	
	Sunnyvale Radio Tower	7530 Sunnyvale Road	
	Facilities Services Administration	1000 Rotary Dr	
	High Point Public Library	910 N. Main St.	
	High Point Museum	Haley House - 1859 E. Lexington Ave.	
	High Point Theatre		
	High Point Train Station		
	Broad Street Parking Garage		
	Commerce/High St Parking Garage		
	Main Street Parking Garage		
<b>POLICE DEPARTMENT BUILDINGS</b>			<b>\$5,000</b>
Police Administration	Administration		
	Auxiliary Police		
	Evidence Storage Facility		
	Fleet Services	3524 Triangle Lake Rd	
	Signal & Sign Shop	3534 Triangle Lake Rd	
	Environmental Services	3514 Triangle Lake Rd	
Police Firing Range	Command Tower	completed in 2019	<b>NOT INCLUDED</b>
	K-9 Training Building	James Parvin deleted	
	Picnic Shelter	completed in 2019	
	Property Room Storage Building	James Parvin deleted	
	Shoothouse	completed in 2019	
<b>FIRE DEPARTMENT BUILDINGS</b>			<b>\$14,000</b>
Administration	Headquarters Fire Station	434 S. Elm Street	
Maintenance	Fire Maintenance Facility	213 Fisher Avenue	
Training	Fire Training Facility	1035 W. Ward Street	
	Fire Training Tower	1035 W. Ward Street	

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GROUP NAME	BUILDINGS IN GROUP	STREET ADDRESS	LUMP SUM FEE
Fire Stations	Fire Station No. 1 Fire Station No. 3 Fire Station No. 4 Fire Station No. 5 Fire Station No. 6 Fire Station No. 7 Fire Station No. 8 Fire Station No. 9 Fire Station No. 10 Fire Station No. 11 Fire Station No. 12 Fire Station No. 13 Fire Station No. 26	508 W. Centennial Street 1309 Chestnut Street 930 Old Winston Road 3828 N. Johnson Street 110 E. Springfield Road 1116 Gordon Street 208 Prospect Avenue 2707 Triangle Lake Road 2419 Whites Mill Road 2604 Morris Farm Road 4538 Barrow Road 2414 Ambassador Ct. 2127 Sandy Ridge Road	\$48,000
PARKS & RECREATION			
Arrmstrong Park	Restroom Youth Baseball Field (Lighted)		
City Lake Park	all		
Deep River Park	all		
Harvel Park	Restroom		
Oak Hollow Park	Campground Bathhouse #1 Campground Bathhouse #2 Campground Office Building/Store Campground Sites (115 Electric Sites) Campground Swimming Pool Pump H Golf Course Cart Storage Building Golf Course Chemical Storage Building Golf Couse Clubhouse Marina Boat House Marina Office Buildings/Store Tennis Center Tennis Center Clubhouse Tennis Center Courts (10 Lighted) Tennis Center Indoor Courts (4 Lighted)	3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street 3415 N. Centennial Street	
Southside Park	Recreation Center Splash Pad		

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<b>GROUP NAME</b>	<b>BUILDINGS IN GROUP</b>	<b>STREET ADDRESS</b>	<b>LUMP SUM FEE</b>
Washington Terrace Park	all		
Johnson St Sports Complex	all		
High Point Athletic Complex	all		
Administration	Administration Building	136 N. Point Drive	
	Maintenance Facility	1041 W. Ward Avenue	
	Storage/Office Facility	1560 N. Main Street	
Allen Jay Park	Baseball Field (2 Lighted)	1073 E. Springfield Road	
	Baseball/Softball Field (3 Lighted)	1073 E. Springfield Road	
	Basketball Court (Lighted)	1073 E. Springfield Road	
	Recreation Center	1073 E. Springfield Road	
	Restroom #1	1073 E. Springfield Road	
	Restroom #2	1073 E. Springfield Road	
	Tennis Court (2 Lighted)	1073 E. Springfield Road	
	Youth Baseball Field (Lighted)	1073 E. Springfield Road	
Blair Park	Golf Course Clubhouse	1901 S. Main Street	
	Golf Course Maintenance Building (3)	1901 S. Main Street	
	Golf Course Shed	1901 S. Main Street	
Brentwood Park	Maintenance Complex	1401 Brentwood Street	
	Soccer Field (Irrigation)	1401 Brentwood Street	
Burnett Park	Restrooms	1105 Montlieu Avenue	
	Soccer Field (Lighted)	1105 Montlieu Avenue	
	Softball Field (Lighted)	1105 Montlieu Avenue	
Cedrow Park	Baseball/Softball Field (Lighted)	1712 Cedrow Drive	
	Restroom	1712 Cedrow Drive	
Festival Park	Picnic Shelter (6)	1841 Eastchester Drive	
	Restroom North Overlook	1841 Eastchester Drive	
	Restroom North Ramp	1841 Eastchester Drive	
Macedonia Park	Restroom/Concession Building	306 Wise Avenue	
Morehead Park	Recreation Center	101 Price Street	
Oakview Park	Baseball/Softball Fields (Lighted)	503 James Road	
	Recreation Center	503 James Road	
	Tennis Court (2 Lighted)	503 James Road	

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Phillips Park	Restroom/Office Building	550 Hedgecock Street	
Piedmont Env. Services	Administration Building	1220 Penny Rd	
	Amphitheatre	1220 Penny Rd	
	Greenhouse	1220 Penny Rd	
	Storage Building	1220 Penny Rd	
Roy B. Culler Center	Senior Center	600 N. Hamilton Street	
Westend Park	Restroom	1701 Edgewood Dr	
<b>NEW FACILITIES (Fee estimated by the City)</b>			<b>\$7,500</b>
BB&T Stadium			
Public Library Plaza			
<b>TOTAL</b>			<b>\$110,000</b>