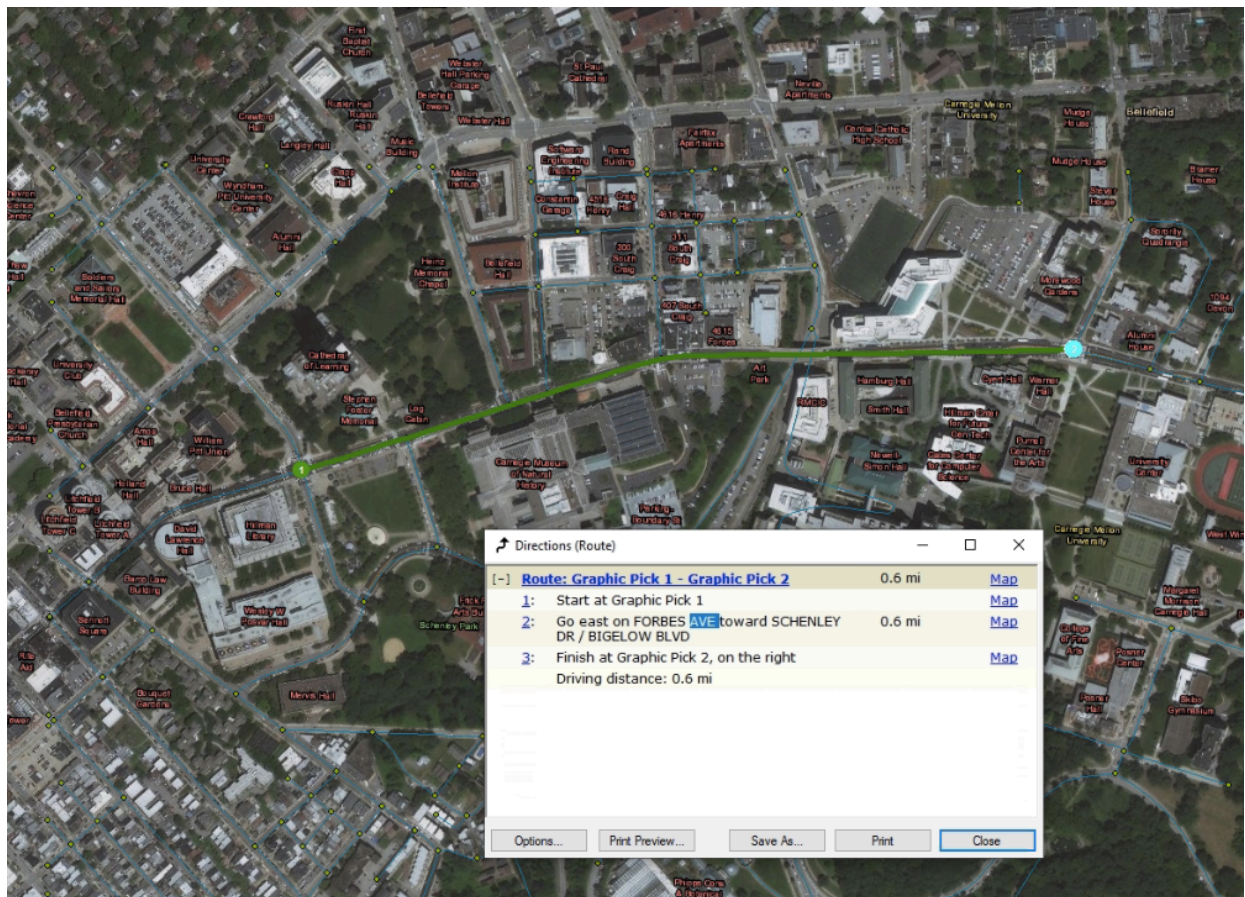


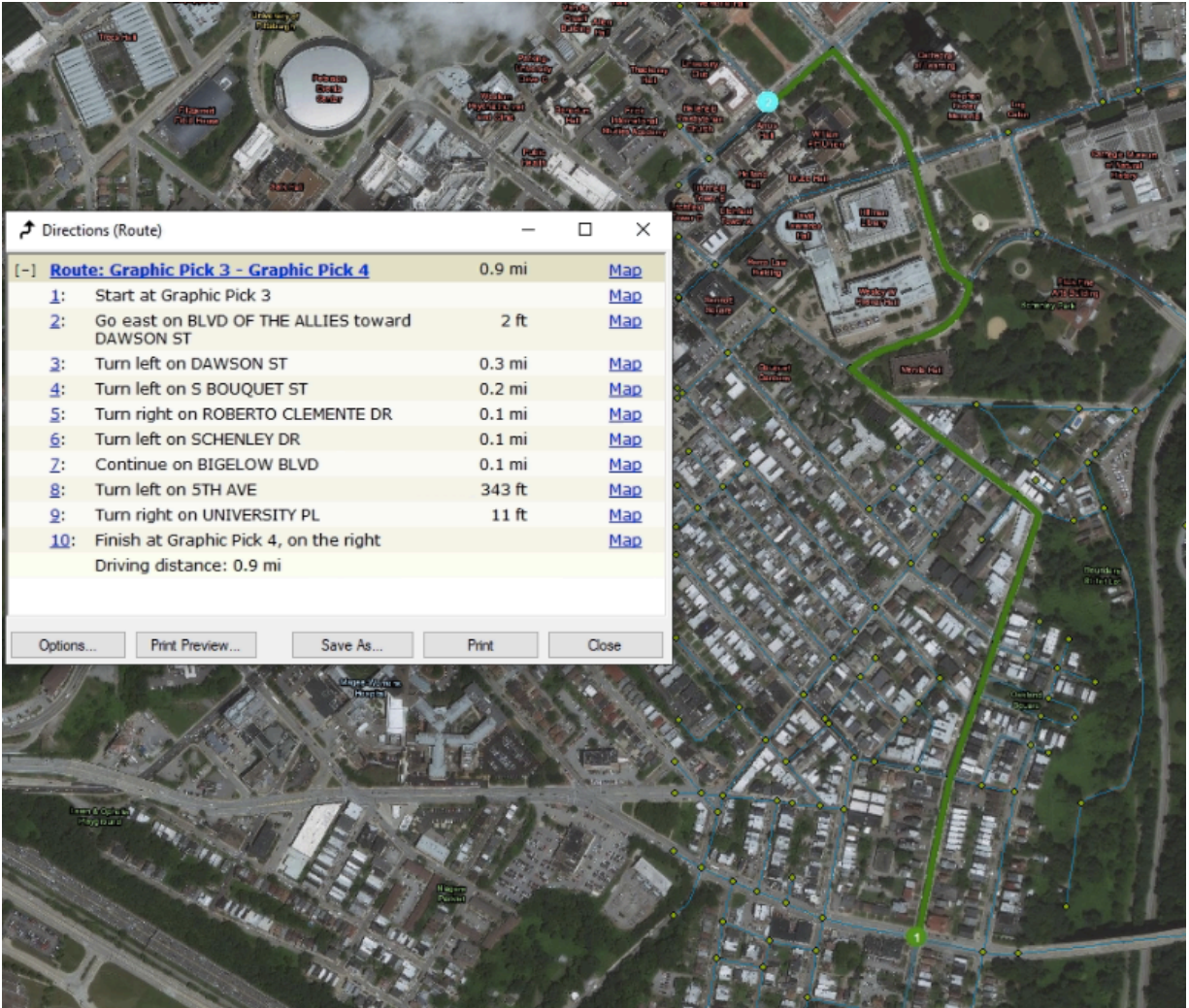
Test Case 1

From Node: 197 ['FORBES AVE', 'SCHENLEY DR', 'BIGELOW BLVD']	
To Node 27 ['FORBES AVE', 'MOREWOOD AVE']	
DISTANCE: 3009 FEET	
Shortest Path	
197	['FORBES AVE', 'SCHENLEY DR', 'BIGELOW BLVD']
198	['FORBES AVE', 'SCHENLEY DR EXT']
303	['FORBES AVE', 'S BELLEFIELD AVE']
293	['S DITHRIDGE ST', 'FORBES AVE']
142	['S CRAIG ST', 'FORBES AVE']
26	['FORBES AVE', 'BORDER']
27	['FORBES AVE', 'MOREWOOD AVE']



Test Case 2

From Node: 65 ['BLVD OF THE ALLIES', 'DAWSON ST']	
To Node 280 ['5TH AVE', 'UNIVERSITY PL']	
DISTANCE: 4923 FEET	
Shortest Path	
65	['BLVD OF THE ALLIES', 'DAWSON ST']
216	['DAWSON ST', 'SEMPLE ST']
116	['DAWSON ST', 'ATWOOD ST']
117	['DAWSON ST', 'OAKLAND SQ']
201	['DAWSON ST', 'OAKLAND SQ']
274	['OAKLAND AVE', 'DAWSON ST', 'OAKLAND WAY']
326	['S BOUQUET ST', 'DAWSON ST', 'DIULUS WAY']
24	['S BOUQUET ST', 'DIMLING WAY']
23	['S BOUQUET ST', 'DIMLING WAY']
125	['PIER ST', 'S BOUQUET ST']
140	['S BOUQUET ST', 'JONCAIRE ST']
203	['S BOUQUET ST', 'ROBERTO CLEMENTE DR']
167	['SCHENLEY DR', 'ROBERTO CLEMENTE DR']
197	['FORBES AVE', 'SCHENLEY DR', 'BIGELOW BLVD']
192	['BIGELOW BLVD', '5TH AVE']
280	['5TH AVE', 'UNIVERSITY PL']



Test Case 3

From Node: 187 ['PARKVIEW AVE', 'CHILDS ST']	
To Node: 68 ['FAIR OAKS ST', 'WIGHTMAN ST']	
DISTANCE: 11199 FEET	
Shortest Path	
187	['PARKVIEW AVE', 'CHILDS ST']
238	['PARKVIEW AVE', 'SWINBURNE ST']
229	['COLLINSON PL', 'PARKVIEW AVE']
231	['BLVD OF THE ALLIES', 'PARKVIEW AVE']
264	['BLVD OF THE ALLIES', 'BORDER']
247	['BLVD OF THE ALLIES', 'BORDER']
17	['BLVD OF THE ALLIES', 'OVERLOOK DR']
18	['PANTHER HOLLOW RD', 'BLVD OF THE ALLIES', 'PANTHER HOLLOW BRG']
242	['PANTHER HOLLOW BRG', 'PANTHER HOLLOW RD']
158	['SCHENLEY DR', 'FRANK CURTO DR', 'PANTHER HOLLOW RD']
77	['SCHENLEY DR', 'W CIRCUIT RD']
78	['SCHENLEY DR', 'TECH ST']
136	['TECH ST', 'FREW ST']
137	['TECH ST', 'MARGARET MORRISON ST']
332	['MARGARET MORRISON ST', 'SKIBO DR']
70	['ROSELAWN TER', 'MARGARET MORRISON ST']
134	['MARGARET MORRISON ST', 'FORBES AVE']
176	['TECHVIEW TER', 'FORBES AVE']
269	['FORBES AVE', 'BEELER ST']
286	['PENTON RD', 'BEELER ST']
300	['BEELER ST', 'UNGER LN']
318	['BEELER ST', 'GATEWOOD DR']
290	['OLYMPIA PL', 'BEELER ST']
302	['BEELER ST', 'BEELERMONT PL']
323	['WILKINS AVE', 'BEELER ST']
277	['FAIR OAKS ST', 'WILKINS AVE']
175	['ANNETTE WAY', 'FAIR OAKS ST', 'KIPLING RD']
68	['FAIR OAKS ST', 'WIGHTMAN ST']

