

7NT-INDYGo

The Three Pillars: **Integrity, Reliability and Performance** are the Cornerstones of 7NT. We at 7NT believe that these values relate to those of IndyGo's, where **Accountability, Diversity, Safety, Excellence, Teamwork and Respect** are its mainstay.

7NT possesses both the technical and managerial proficiency required to deliver quality services for the successful completion of IndyGo's project – regardless of the magnitude or complexity. We honor the commitments we make with our Communities and Partners by leveraging innovation and best practices in order to deliver timely and cost-conscious products in a manner that adds value and exceeds expectations. In aligning with IndyGo's perspective and goals, 7NT understands the importance of pursuing and maximizing partnerships and are grateful for the opportunities and looks forward to years of collaboration.

7NT CAPABILITY STATEMENT

7NT is a certified MBE professional engineering firm providing design, field and construction management services for the public works sector. 7NT is comprised of 58 employees, with office locations in 6 states. The Indianapolis Office with 25 professionals serves communities in Indiana, including IndyGo; Department of Public Works, City of Indianapolis; Citizens Energy Group, Indianapolis Airport Authority and other stakeholders in Central Indiana. While our operation has expanded, our commitment to work ethics and excellence is demonstrated through our continued growth, and professional multi-state accomplishments, and client satisfaction.

Our experienced team specializes in providing the following technical services:

- ❖ Professional Geotechnical Engineering
- ❖ Geotechnical and Environmental Drilling
- ❖ Independent Laboratory Testing
- ❖ Stormwater/Wastewater Design Engineering
- ❖ Construction Inspection
- ❖ Construction Materials Testing

7NT's staff includes a diverse workforce of professional engineers, inspectors, engineering technicians, and surveyors, all of whom are specialists in their fields and certified and/or accredited by the following organizations:

- ❖ State Board of Registration for Professional Engineers and Surveyors
- ❖ American Concrete Institute (ACI)
- ❖ Indiana Department of Transportation (INDOT)
- ❖ National Institute for Certification in Engineering Technologies (NICET)
- ❖ Occupational Safety & Health Administration (OSHA)
- ❖ American Association of State Highway & Transportation Officials (AASHTO)
- ❖ U. S. Army Corps of Engineers (USACE)



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RED LINE BRT CONSTRUCTION MANAGEMENT



The 2016 Central Indiana Transit Plan was proposed to improve existing transit systems and creating new ones in Central Indiana, including Indianapolis. The transit planning was coordinated in a partnership with Indianapolis Metropolitan Planning Organization, the Indianapolis Public Transportation Corporation (IndyGo), and Central Indiana Regional Transportation Association, which are referred to as Indy Connect. The Transit Plan was a multi-phase project, starting with the Red Line Phase I Construction.

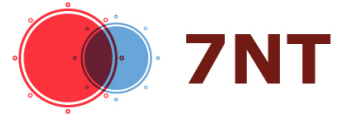


Red Line Phase I Construction began on May 31st, 2018 led by IndyGo. The Red Line is Indiana's first Bus Rapid Transit (BRT) line, and one of the first all-electric battery BRTs in the country. Major aspects of this project included dedicated lanes, center and curbside stations with level boarding, seating, and wind screens. The first phase was completed and the Red Line was opened on September 1, 2019. There were 28 stations built which runs 13.1 miles, starting from Broad Ripple through downtown Indy and ending at the University of Indianapolis.



7NT Engineering was contracted by HNTB Corporation to do quality control testing and inspection for Red Line BRT Construction. 7NT had inspectors onsite to inspect and perform compaction and density testing on the backfill materials and subgrade treatments. 7NT inspectors also perform concrete testing including slump, air content, unit weight, yield, water/cement ratio, temperature tests, and concrete strength testing. 7NT then monitored the concrete placements of curbs, sidewalks, bus station platforms, etc. Finally, 7NT Steel Inspectors performed visual inspections of the welds for the frameworks at the bus stops. 7NT made daily reports for all inspections which included all testing results for the project.

BLUE LINE BRT GEOTECHNICAL DESIGN



The Blue Line Rapid Transit design started in 2018 led by IndyGo. The Blue Line provided a fast, frequent, and reliable transit service throughout Indianapolis, IN. Major aspects of this rapid transit project include dedicated lanes, center and curbside stations with level boarding, seating, and wind screens. The Blue Line is 24-mile bus route which travels through the east and west central corridor of downtown Indianapolis.



7NT Engineering was contracted by WSP on the Blue Line BRT construction to perform eighty-seven pavement cores and fifty-one soil borings to characterize the soil conditions at planned stations, new signal poles, and full depth reconstructed areas of the roadway. The soil borings were drilled with a truck-mounted drill rig and soil samples were taken at

intervals directed by WSP. Depth to groundwater was measured in the open boring during drilling and 24 hours after completion, prior to backfilling. A bulk sample of soil was collected at each boring for laboratory testing consisting of moisture contents, Atterberg limits, sieve analysis, unconfined compressive strength, soil classification, pH, LOI, standard proctor test, and subgrade resilient modulus. A laboratory testing data report was then submitted to WSP with the results from testing.

