Excavators
Purpose: Earth work
Used for all earth work, e.g., digging side-in-grade foundations (not the drilled shaft foundations), dirt removal, sewer installations, and demolition of existing steel structures.

Rough Terrain Crane
Purpose: Lifting
Used for steel erection, rebar installation, track work, and to assist with drilling foundations work, as well as forming and pouring of new foundations and piers.

Vibratory Sheet Installer
Purpose: Safety
Used to install and remove sheet piling, which is installed into the ground temporarily to hold the earth in place and keep construction workers and existing structures safe while performing underground construction. Sheet piling may be used when removing duct banks or while lifting mobile foundations that may be close to an existing structure. It is removed when the portion of construction is completed.

Wheel Loaders
Purpose: Dirt removal
Used for base foundation work (dirt and shale) and demolition of existing structures. Removes dirt from site and moves materials around site.
Compressors
Purpose: Run all pneumatic tools
These provide the forced air that runs pneumatic tools, e.g., jackhammers and small drills. Used during the demolition of existing structures, structural steel, or concrete in the new bypass and rehabilitation of the streets and sidewalks.

Drill Rigs
Purpose: Drill deep foundation shafts
Used to drill micropiles and deep foundation shafts needed to support the bypass structure. The shafts will range from 4 to 8 feet wide and depths ranging from 60 to 77 feet deep.

Skid Steer Loaders
Purpose: Roadway and pavement removal and replacement
Used during roadway and pavement removal, and replacement as well as for other activities that need a small bucket to move materials.

Telescopic Crane
Purpose: Erection of steel
Used for the erection of steel as well as the drilled foundation anchor cage installation.