

Strawberry Park Electrical Committee

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Final Committee Recommendations on Electrical Work-Timbers/Pear Place and Tangerine Trail

Noank Electric submitted a bid and scope of work on March 23, 2023 for \$83,573.64 for the proposed phase 1 electrical work to rectify the current electrical problems effecting the Tangerine trail sites 329G to 329M and Timbers sites 274 to 266. The Tangerine sites had 2 line failures and needed a temporary jumper installed on 3 sites. The switchgear at the intersection of Pear Place and Tangerine Trail was electrically destroyed and a temporary splice box was installed but has since sustained serious damage from vehicles in the road.

The Timbers sites experienced 1 burnout and continues to experience low voltage issues most likely caused by other unknown feeder damages yet discovered.

Under the proposed bid from Noank Electric, a new set of parallel feeders will be run in compliance with NEC 2017 from the switchgear located at Transformer site 327 up on the South part of Tangerine Trail to the new switchgear to be installed at the intersection of Pear Place and Tangerine Trail. This switchgear will be elevated on a foundation to eliminate any intrusion of water. From that switchgear several sets of feeders will be run across Tangerine Trail to sites 329M, continue and end at 329G. Each site will have a splice box located either at road side or close to their existing pedestal. Each site will have its own dedicated circuit breaker at the new switchgear located at Pear Place/Tangerine.

All these sites will then be removed from the current 400A Breaker located at the transformer at the beginning of Tangerine Trail and the existing damaged line dead Ended. This new feeder will remediate all voltage problems and temporary jumpers in the 329 series, sites G-M

Another set of new feeders will be run from the Bathhouse Transformer across Pear Place and connected to the existing circuits located at sites 274 and 277 and temporarily connected there feeding sites 274 to 266 and sites 277 to 285. The existing feeds the Tangerine transformer circuit feeding sites 274-266 will be removed from the 400A Tangerine breaker circuit and dead ended at the new installed switchgear. The feeders from the site 327 Transformer will be dead ended at site 285 once the new feeders are connected. Both of these new circuits will be sized and utilized to feed both sides of the Timbers (NEC 2017) once phase two renovations commence in October 2023. Final connections and feeds will be completed at that time. Most of the West side of the Timbers will require new pedestals that will have to be figured into the Phase two renovations. There are several pedestals on the East side of Timbers that will also need replacement along with pedestals at 329 N,O,P and 328F.

Future renovations, most likely part of phase 2-3 will also occur in the Meadows 150 series and 140 series and it appears that these sites will need some electrical upgrades, feeders, pedestals as well; and will need to be evaluated further prior to commencement of that work.

The Electrical Committee concludes that the proposed electrical work is needed and recommends the approval of the current remediation's under the Noank Electric bid.

Approved 3-0