



9801 Renner Boulevard,
Suite 300
Lenexa, KS 66219

February 20, 2020

City of Lee's Summit, MO
220 SE Green Street
Lee's Summit, MO 64063

RE: PL2019333 – Paragon Star Public Off-Site Water Main Extension

We have received your comments dated October 21, 2019 for the above referenced project. Our responses follow each comment. The comment responses have been organized by the review section they pertain to.

Engineering Review

1. General:

- Include Erosion and sediment control to the plan set.
GBA Response: Erosion and sediment control plans have been added to the plan set.
- Submit an Engineer's Estimate of Probable Construction Costs.
GBA Response: An Engineer's Estimate of Probable Construction Costs has been included with this submittal.

2. Sheet 1: Include a Summary of Quantities table on this sheet or elsewhere in the plan set.

GBA Response: A Summary of Quantities has been added to the cover sheet.

3. Sheet 2: Revise to reference Lee's Summit requirements, not KCMO, on this sheet and throughout the plan set.

GBA Response: References to KCMO's requirements have been updated to Lee's Summit.

4. Sheets 3-7:

- Show the existing 18" storm sewer crossing at approximate Sta. 0+64 in the Profile view.
GBA Response: The 18" storm sewer crossing at Sta. 0+64 has been shown.
- Show and label bends at approximate Sta. 0+84 and Sta. 45+40 in the Plan view.
GBA Response: Bends have been labeled.
- The 4" PVC Cleanout label at approximate Sta. 5+40 is scaled back like existing features. Please revise.
GBA Response: Cleanout label has been darkened for readability.
- Please include horizontal and vertical curve data to determine if bends are required.
GBA Response: Addition Horizontal curve data has been shown. Vertical bends have been labeled, along with deflections that can be handled by deflections at joints. Attached is a production information sheet showing that 1° deflection can occur every 20 feet of pipe.
- Locate straddle blocks as required by design and Construction manual Section 6901.D.6.
GBA Response: Additional straddle blocks have been added based on Section 6901.D.6.

- Locate valves as required by Design and Construction manual Section 6901.E.1.
GBA Response: Additional valves have been added around the T-connections along Line A.
- The north air release assembly stationing shown in the Plan and Profile views don't match.
Please revise as needed.
GBA Response: The stationing has been revised.

5. Sheet 8: The Gravel Drive Typical Section specifies a rock size range. Is a gradation also required? If so, please add it to the detail.

GBA Response: It is not required.

In addition, based on meetings between KCMO and Lee's Summit, the stationing where the waterline changes from Lee's Summit to KC Water has moved north. This change has been reflected in the plans.

We believe we have addressed all comments on this project. If you have any additional questions or concerns, please feel free to contact us.

Sincerely,

GEORGE BUTLER ASSOCIATES, INC.

Clint Loumaster, P.E.