

Engineering has reviewed the plans for the St. Marks Catholic Church and Mayfaire II Entrance project submitted July 11, 2018 for TRC review and have the following comments:

1. This project is proposing the construction of on-site newly constructed impervious surface greater than 10,000 sf, therefore the project is subject to full stormwater review. Permitting process to be discussed at TRC.
2. It appears that the future impervious allocation provided by the existing St. Mark's SW permit (City Permit No. 2011026R1) will be exceeded. Please verify.
3. Piped collection systems shall be designed for the 10-year frequency storm event and analyzed for the 50-year frequency storm event to check the system for flooding. Assign an appropriate tailwater to the analysis.
4. Please provide spread calculations for curb inlets within the proposed public rights-of-way. Curb inlets shall be located such that the gutter flow spread doesn't exceed eight (8) feet or 1/3 of the street width, whichever is less, during a 10-year storm event (TSSM, Ch. V.D.2.b.Inlet Locations).
5. Provide an inlet drainage area map with each inlet area labelled, delineated and listed.
6. Provide sizes, lengths, inverts and slopes for all existing and proposed pipes.
7. Provide road profiles for the public roads.
8. Appropriately sized public drainage easements are needed where public water is being conveyed outside of the public r/w.
9. The right in/right out access needs to have a city standard commercial driveway. Removal of the crosswalk is needed as well.
10. The multi-use path and sidewalk within the public r/w need to be against the r/w line.
11. Any portion of sidewalk along public roads that is outside of the r/w will need to be in a public pedestrian access easement.
12. The mid-block crosswalk needs to be moved closer to the roundabout.
13. The curb ramps in the MUP must be reconfigured. Coordinate with Traffic Engineering.
14. Provide all appropriate details to support stormwater management systems.
15. Provide all appropriate city standard details. City details shall be the most recent pdf version downloaded from the city website. City details must have the City titleblock.
16. Headwalls or flared end sections shall be required at the inlet and outlet of all pipe systems. See TSSM, Ch. V.D.1.i.
17. Energy dissipaters shall be designed and constructed at the outlets of all pipe systems. See TSSM, Ch. V.D.1.j.

Please call or email if there are any questions. Thank you.