

**CITY OF RAMSEY LAND USE APPLICATION
TECHNICAL REVIEW FILE**

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|--------------------------------|---|------------------------|---|
| DATE | DECEMBER 12, 2018 | PROJECT ADDRESS | WEST OF GERMANIUM STREET, NORTH OF 172 ND LANE (NEW) |
| PROJECT. TITLE | COVENANT MEADOWS | | |
| ESCROW # | | | |
| DEPARTMENT: | Engineering | | |
| TECHNICAL REVIEWER: | Name: Leonard Linton Phone: 763 433-9834 Email: llinton@ci.ramsey.mn.us | | |

Covenant Meadows subdivision was approved and constructed in 2017. The Engineering Department reviewed and approved the plans for the project and provided inspection services during construction.

An adjacent resident was not happy about the project going in. Staff worked with him to try to address his concerns. The Developer also performed extra work to address his concerns.

Staff brought forward plans for reconstruction of Germanium Street which serves this area at the November 13, 2018 City Council meeting in a public hearing to consider approving the feasibility study for reconstruction of the streets in this area. The resident made statements that the drainage for Covenant Meadows was wrong and should not have been approved.

Review of Drainage

Staff has analyzed the pre-development and post development conditions related to the resident's lot. Two exhibits were prepared showing these conditions.

The pre-development conditions were 11.125 acres draining towards this property. The runoff for the 2, 10 and 100 year storms is 0, 0.1 and 3.1 cfs respectively.

The post-development conditions are 1.306 acres draining towards this property. The runoff for the 2, 10 and 100 year storms is 0, 0.02 and 0.75 cfs respectively.

The Covenant Meadows project intercepted 9.819 acres of runoff and directed it to two stormwater ponds constructed on the site. The ponds were designed to hold back to back 100 year storms, with the net effect that there would not be runoff from the site for the 100 year storm.

*Review File: Covenant Meadows
Resident Drainage Concerns
Engineering Review
December 11, 2018
Page 2 of 2*

Staff also prepared an Existing Residence Detail Map. The backyard is extremely flat and was not modified by the new project. A permit was not obtained for constructing the garage at the back of the property. The access road for the garage was dedicated right-of-way, it was not paved so water would infiltrate after a rain event. The road was most likely lower than the adjacent property so water would pool there rather than on the lot.

The new road was designed to drain from the new development to Germanium Street. Grades were raised to meet the minimum slope required by City Code for new streets. The outer edges of the ditches were probably raised above the existing grades. It may be possible to check the capacity of the ditches and lower the outside edge to provide drainage from the lot to the ditch.