



- ASSUMPTIONS:**
- 1) MAXIMUM LOT IMPERVIOUS AREA: 25%
  - 2) PROPOSED LOT AREA: 128,512 SF
  - 3) SOIL TYPE (NRCS SOIL SURVEY): TYPE C
  - 4) INFILTRATION RATE (MPCA): 0.2 IN/HR
  - 5) MAXIMUM DRAW DOWN TIME: 48 HRS
  - 6) 1 IN OVER INCREASE IN IMPERVIOUS AREA.

- IMPERVIOUS AREA SUMMARY:**
- 1) PROPOSED ROADWAY: 32,582 SF
  - 2) LOT AREA: 32,128 SF
  - 3) TOTAL AREA: 64,710 SF

- INFILTRATION BASIN SIZING:**
- 1) STORAGE: 64,170 SF x ( $\frac{1}{12}$ ) FT = 5,392.5 CF
  - 2) TOP AREA: 4,475 SF
  - 3) BOTTOM AREA: 2,943 SF
  - 4) MAX DEPTH: 1.5 FT
  - 5) CUMULATIVE VOLUME: 5,563.5 CF > 5,392.5 CF

- LEGEND:**
- LOT AREA 
- PROPOSED ROADWAY 

PROPOSED INFILTRATION BASIN  
KELLEY SHORES  
VERGAS, MN

|             |          |
|-------------|----------|
| PROJECT No. | 21456    |
| DATE:       | 04.20.22 |
| REVISED:    | -        |
| DRAFTER:    | JCR      |
| REVIEWER:   | TJH      |

