

| To: | John Baczek | Attn: | Praveen Kaini Medhavi Shah | | |
|----------|--|-------|-------------------------------|-----|------|
| From: | Steve Travia | By: | Giancarlo Gierbolini | | |
| Subject: | Structure Geotechnical Report* Culverts – various locations | | 1. | 11. | _ll. |
| Date: | September 2, 2020 | | 1 | 1 | |
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*Route:FAP 346 (United States Route 41)Location:over unnamed creeksSection:2019-049-TCounty:LakeContract:62J26

The IDOT District One Geotechnical Unit has reviewed the Structure Geotechnical Report (SGR) prepared by GSG Consultants, Inc., dated September 1, 2020 for the above-referenced project. The report was revised based on comments from IDOT, dated August 12, 2020, and provides geotechnical recommendations for several culverts under US 41 at various locations in Lake County.

A total of four existing culverts will be repaired as part of this project. The following table provides the structure numbers and US 41 station locations.

| Structure Number | Location (US 41 Station) | |
|------------------|--------------------------|--|
| 049-0228 | STA 50+01 | |
| 049-2016 | STA 379+99 | |
| 049-2015 | STA 393+60 | |
| 049-0575 | STA 70+00 | |

The carry unnamed creeks under US 41. The proposed repairs covered in the SGR generally consist of the replacement of the ends of each culvert and the associated wing walls. The report provides recommended bearing capacity values for the culvert and lateral resistance parameters for temporary soil retention systems.

After reviewing the SGR, the report is approved with no additional comments.

If you have any questions regarding this review, please contact Robert Claussen, P.E. at (847)705-4735 or Giancarlo Gierbolini, P.E. at (847) 705-4003.

Cc: IDOT Soil Inspector