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MEMORANDUM

Date: July 15, 2024
To: Michael Elabarger
From: Jacqueline Thompson, PE
Subject: The Learning Center Rolesville
SDP 23-07, 5th Submittal
Town of Rolesville, NC

This memo summarizes the review of site plan documents submitted by Kimely Horn, dated 09/23/2023 (received 07/04/2024).

Sheet C0.0

1. Please provide an updated stormwater report for review since comments were provided on the 4th Submittal.

Sheet C2.0

2. Please confirm directly with engineering that there is no conflict with the Main Street project for installation of the pedestrian ramp

Sheet C3.0

3. Update the label of the outfall invert of FES-02 from INV IN to INV OUT.
 - a. This comment also applies to sheet C6.0.
4. Label all inverts for CO-1.
5. REPEAT: Verify drainage will function properly between the trench drain and 12" PVC leading to the underground detention at the Old Rogers Road driveway given the inlet and outlet angle at CO-1 is designed to less than 90 degrees.
6. Storm pipes draining from CO-3 and CB-07 to CB-04 are at the same invert. Adjust the storm design as needed to avoid conflicts between pipes, especially with the angle of the pipes shown.
7. Label all inverts for CO-2.
8. Please include a detail for O-Ring Gasketed pipe.
9. REPEAT: The highlighted area appears to be draining off site. It is understood that plans are in review with NCDOT but based on contours, stormwater from new impervious parking lot appears to be draining to adjacent site. Adjust grading or stormwater system in this area to capture stormwater.

- a. This comment will remain until NCDOT has approved the plans.
- 10. REPEAT: Storm structures connecting into NCDOT drainage system will need to be reviewed by NCDOT and Hydraulic Division for flow rate being added into their existing system. NCDOT to provide requirements for encroachment and permitting on storm connection.
 - a. This comment will remain until NCDOT has approved the plans.
- 11. Please include a detail for the trench drain.
- 12. All pipes should have a minimum of 2' cover. Please review and adjust accordingly.

Detail Sheets:

- 13. Updated detail numbers (currently all are "XX").

Sheet C6.0:

- 14. The retaining wall appears to end sooner than the top of wall and bottom of wall elevation labels. Please review and adjust accordingly.

Site Lighting

- 15. The site layout is different than the plans; the lighting plan shows a light in the SCM. Please submit a revised lighting plan that matches the site plan.

Stormwater Impact Analysis

- 16. Provide HGLs for storm network for review of surcharge in relation to underground detention.