

## RESPONSE TO CITY OF LAGRANGE PLAN REVIEW COMMENTS

### PLAN REVIEW COMMENTS:

- Add inlet or outlet protection at the ends of culverts near the trenches. *The culverts are existing and do not appear to need additional outlet protection. (See attached photographs on next page). At the trench for the stream crossing, slope stabilization matting is to be placed over the backfilled trench (slope stabilization BMP was just added) and a stone check dam is to be placed over the trench crossing with the check dam just downstream of the trench. This could be replaced with storm drain outlet protection if preferred.*
- Add Check dams in the ditches just downstream of the trenches. *On both sides of Busch drive, there are perennial streams (not just trenches). I have had the plans reviewed and approved by EPD for a Stream Buffer Variance. I don't think that they would want check dams in the creek. I did show a check dam at the pipe trench crossing on the east side of the road as mentioned in the comment above. Also mentioned above, I can replace that check dam with rip rap storm drain outlet protection if preferred.*
- Add Construction exits at each end of each road crossing. *Construction outlets were added to the east side of Busch drive, but the west side of the road does not lend itself to providing complete full sized construction outlets due to the location of the creek being so close to the road. In lieu of construction outlets on that side of the road, Special Silt & Erosion Control Notes were added on Sheet G-4 stating that soil removed from the west side trenches are to be placed on the uphill side which will be partially on the roadway pavement, and it is also noted that at the end of each day the soil is to be backfilled into the trenches and a street sweeper is to be employed to remove soil residue from the pavement.*

*To help in the review of the plans, photographs of the entire project with the proposed sewer drawn in are provided in a separate document.*

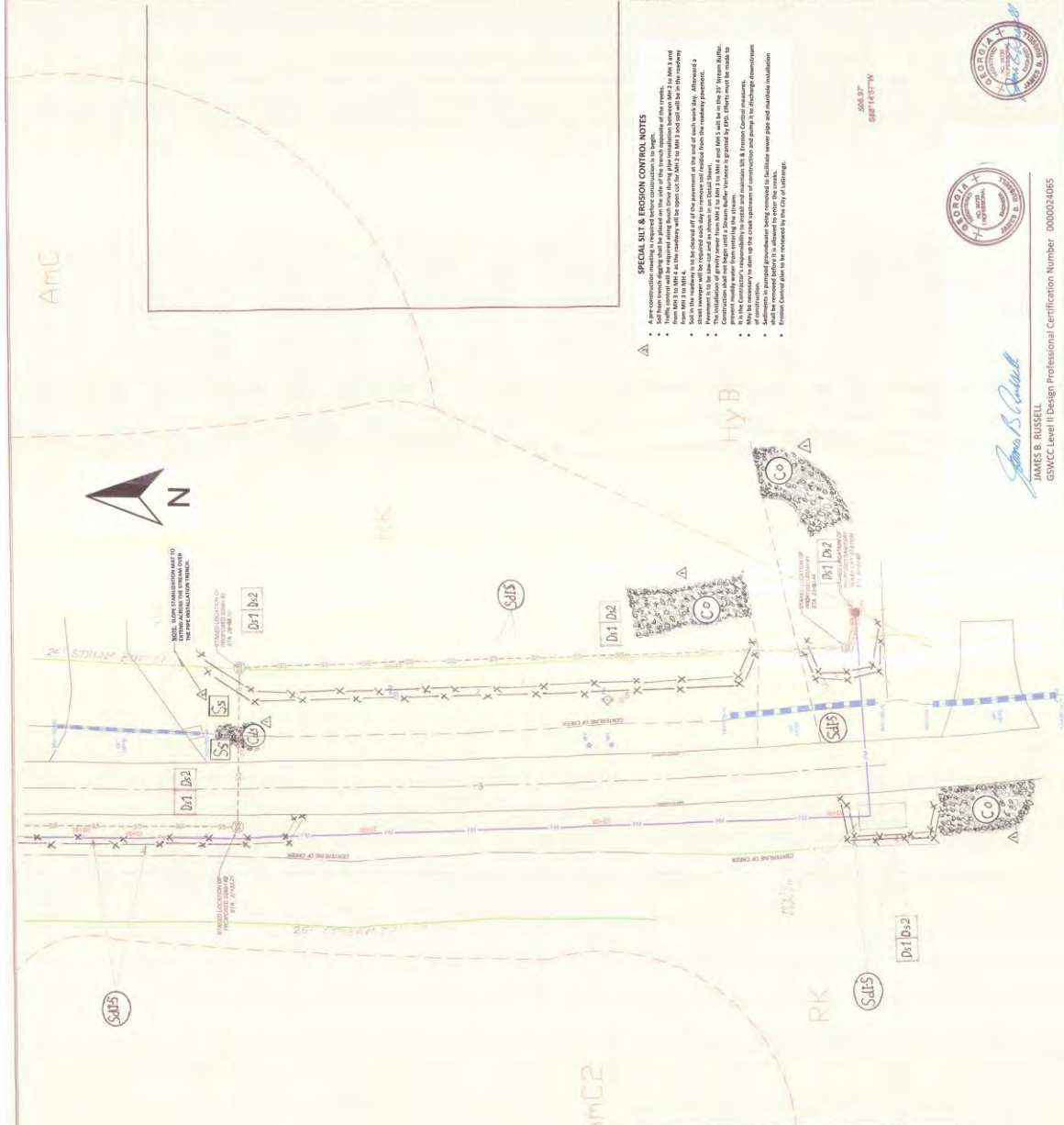


*Culvert located just upstream of line MH#2 to MH#3 stream crossing*



*Location of stream crossing location for Line MH#2 to MH#3*

DATE	DESCRIPTION
7-12-22	REVISED PER COMMENTS
7-12-22	REVISED PER COMMENTS
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7-12-22	REVISED PER COMMENTS



**EROSION AND SEDIMENT CONTROL LEGEND**

<b>S1-S5</b> SEDIMENT BARRIERS - SILT FENCE TYPE SENSITIVE DOUBLE END	<b>D1-D3</b> DISTURBED AREA STABILIZATION MALCHING ONLY
<b>D1-D3</b> INLET SEDIMENT TRAP	<b>D1-D3</b> DISTURBED AREA STABILIZATION TEMPORARY GRASSING
<b>C1-C3</b> ROCK DAM - STONE AS REQUIRED	<b>D1-D3</b> DISTURBED AREA STABILIZATION PERMANENT VEGETATION AS REQUIRED
<b>S1</b> SLOPE STABILIZATION AS REQUIRED	

NOTES: 1. THE ENGINEER HAS AUTHORITY TO REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS DEPICTED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PREVENT AND CONTROL EROSION AND SEDIMENT CONTROL.

**NOTES**

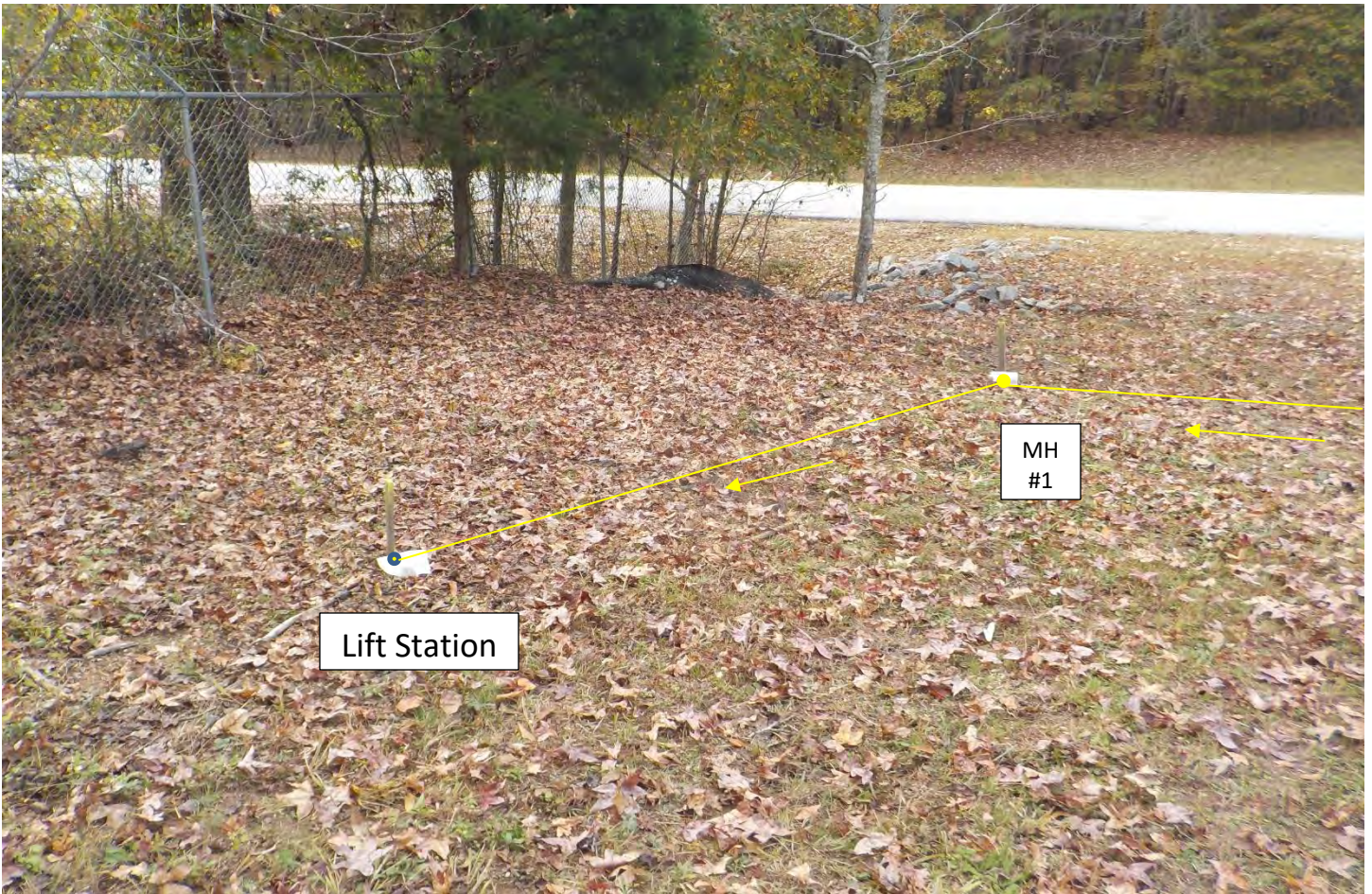
- ALL DISTURBED AREAS REQUIRE D11. SEE EROSION CONTROL NOTES, PARTS G-11 & G-12.
- SEE EROSION CONTROL NOTES, PARTS G-11 & G-12.

**SPECIAL SILT & EROSION CONTROL NOTES**

- All concrete retaining walls to be placed on the side of the trench opposite of the creek.
- The contractor shall be responsible for the removal of all debris from the trench and the trench shall be cleaned out and the trench shall be backfilled with clean sand and gravel to the original ground level.
- Silt to 10 MPH is to be placed at the end of the pavement at the end of each work day. A minimum of 100' of silt fence shall be placed at the end of each work day.
- The installation of silt fence from MH2 to MH1 to MH4 and MH5 will be in the 25' stream buffer.
- The contractor shall be responsible for the removal of all debris from the trench and the trench shall be cleaned out and the trench shall be backfilled with clean sand and gravel to the original ground level.
- Any necessary to clean up the trench pavement of materials and debris shall be removed from the trench.
- Disturbed areas shall be stabilized with mulch or grass seed and erosion control blankets.
- Temporary silt fence shall be replaced by the day of planting.



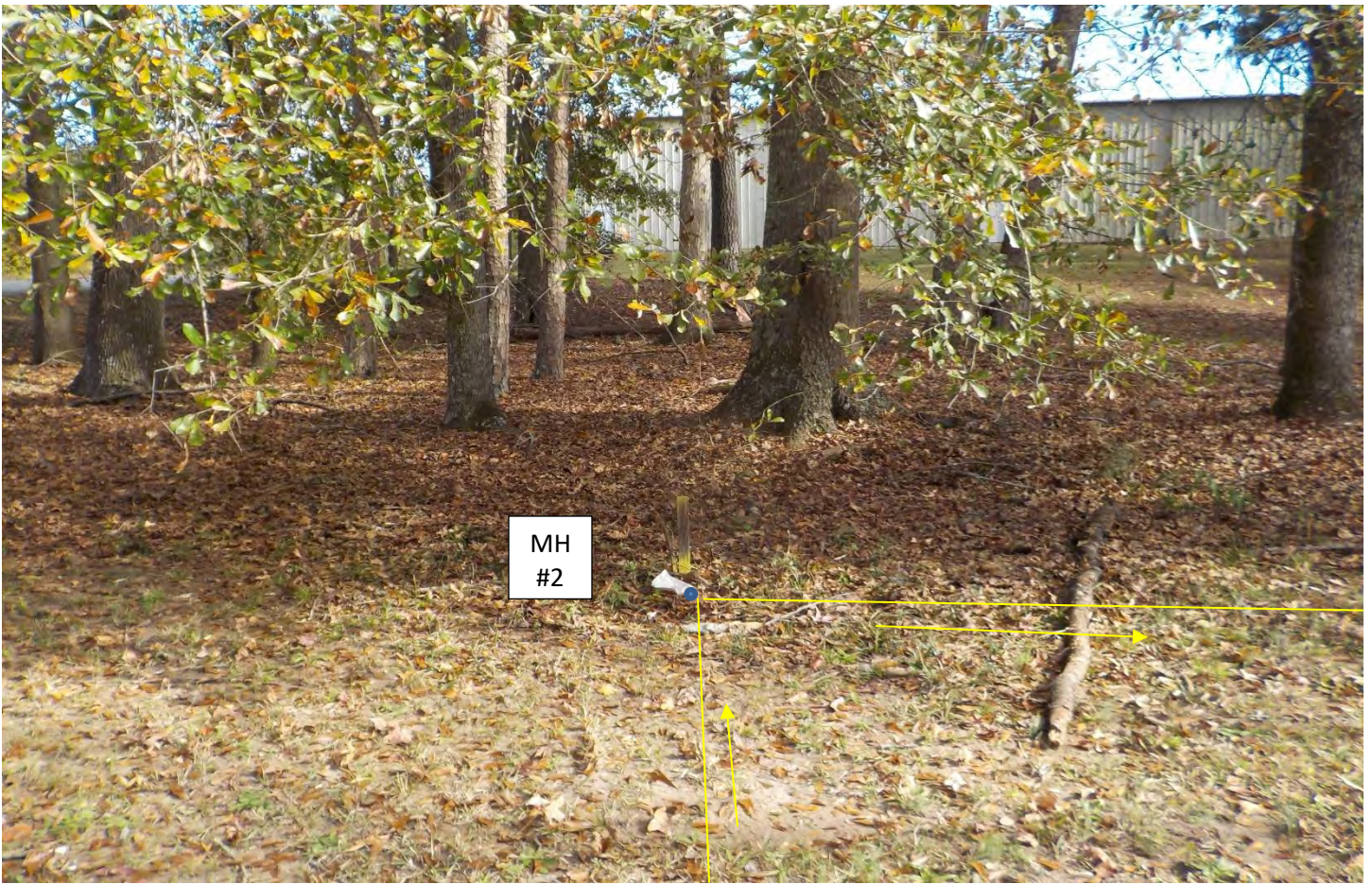
*James B. Russell*  
 JAMES B. RUSSELL  
 GSWCC Level II Design Professional Certification Number: 0000024065



MH #1 to Lift Station



MH #3 to MH #2 to MH #1



MH #3 to MH #2 to MH #1



MH #4 to MH #3 to MH #2



MH #4 to MH #3 to MH #2

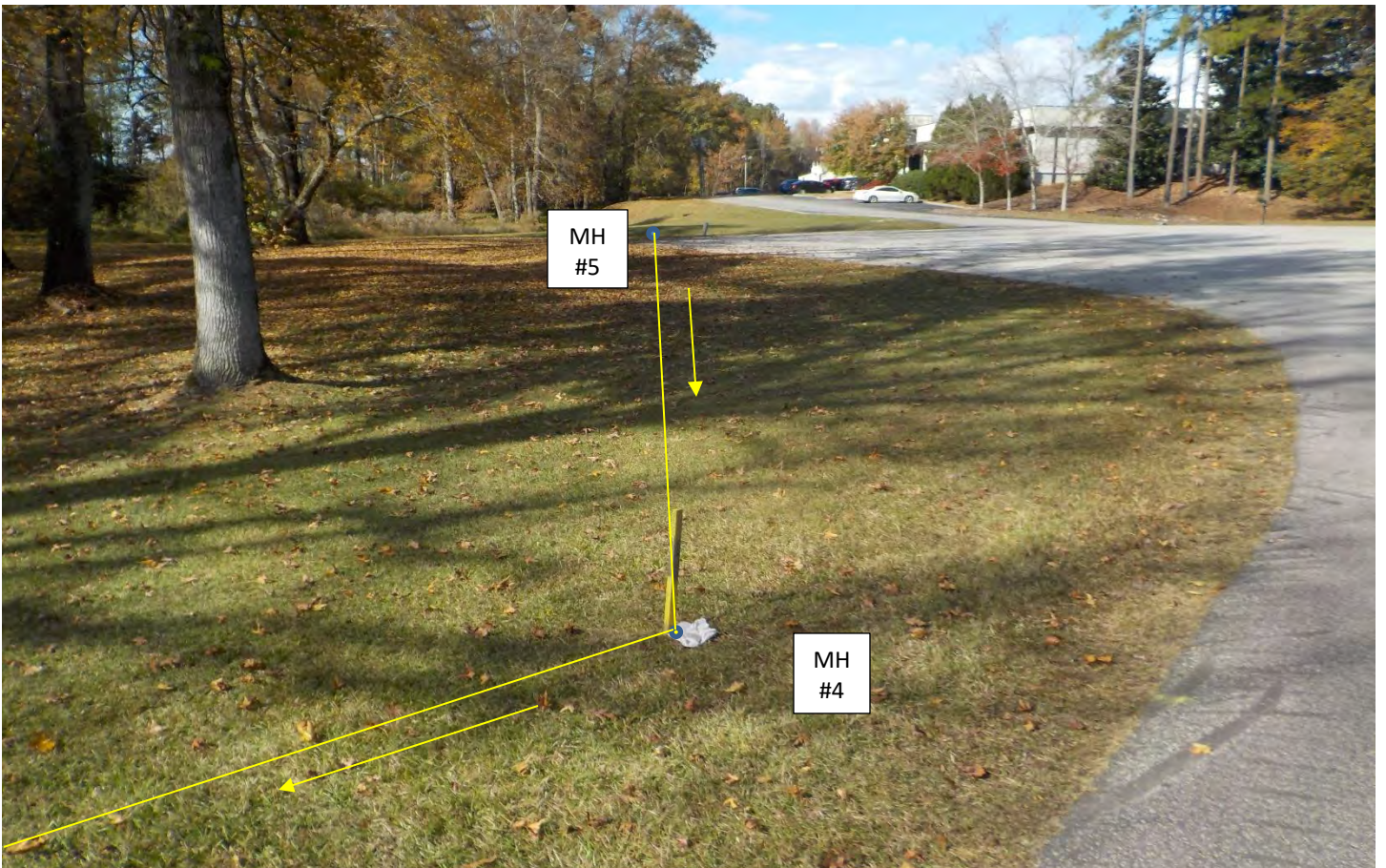


MH #4 to MH #3 to MH #2

MH #5 to MH #4 to MH #3



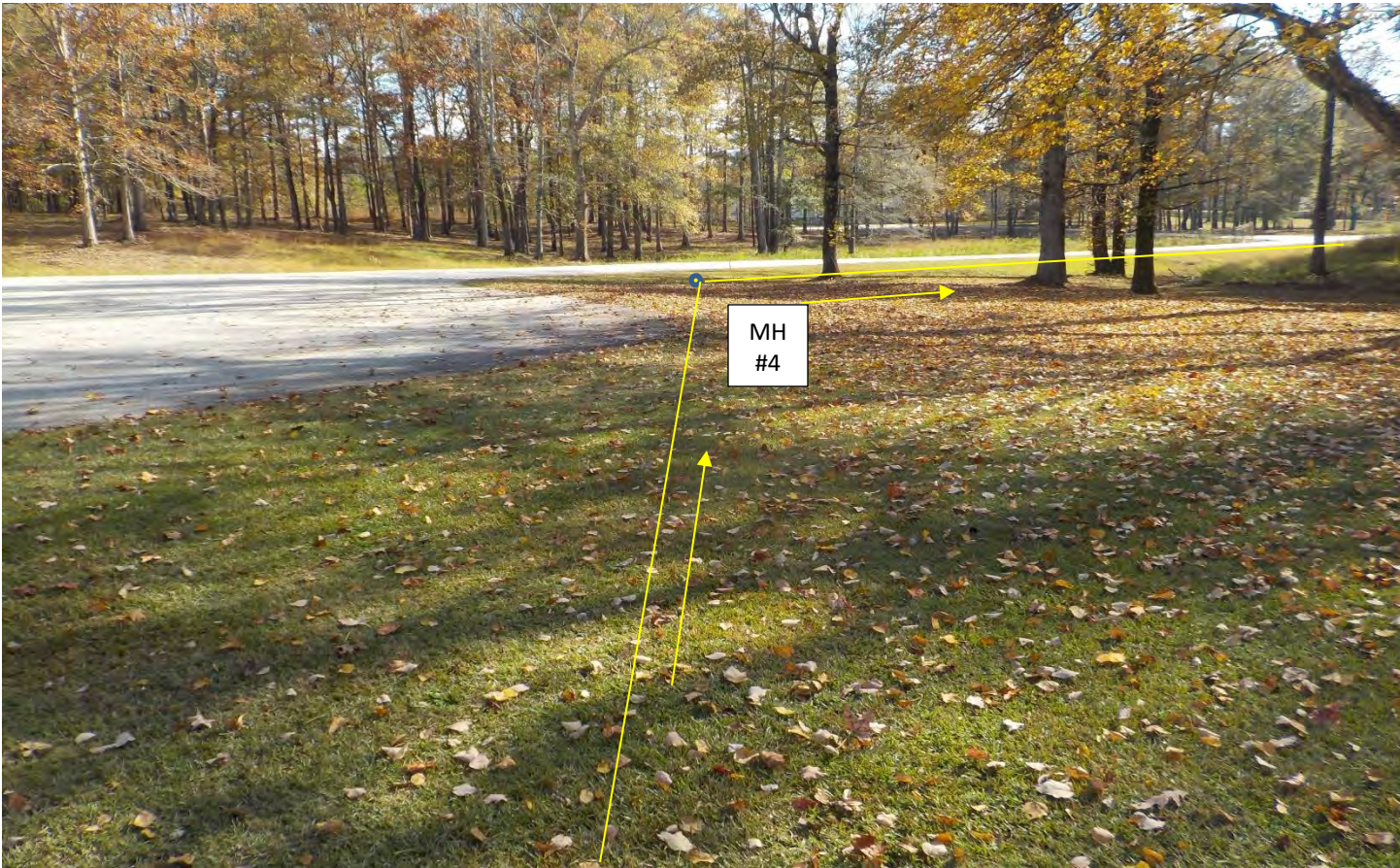
MH #5 to MH #4 to MH #3



MH #5 to MH #4 to MH #3



MH #5 to MH #4



MH #5 to MH #4 to MH #3





MH #5 to MH #4 to MH #3