



## CAPITAL & CONSTRUCTION COMMITTEE

Monday October 2, 2017 @ 4:30 P.M.

### Memorandum

Present: Committee Chair Steve Pittman, Committee Members Marilyn Anderson and Eric Hand, Board Members Michael Shaver and Carl Mills, Engineering Manager Wes Merkle, District Engineer Ryan Hartman, Legal Counsel Scott Wyatt

Mr. Pittman called the meeting to order at 4:40 p.m.

Public Comments – There were no public comments.

#1505 WWTP Odor Control Project Change Order – Mr. Merkle reported the WWTP Odor Control project is nearly complete. The system passed performance testing in September and crews are finishing up punch list items. Below is a list of changes made to the scope of work during construction that will all be captured in a final change order. Unused allowance items will be zeroed out as credits to the contract amount. Mr. Merkle explained that the last item on the list regarding the reimbursement to CTRWD was due to the three-month delay in receiving the large fiberglass vessel and the air duct that feeds it. Because of this delay, the District paid over \$38,000 to continue using chemicals to reduce odor. Contractor Graves Plumbing will work separately with their supplier to recover that cost. The District is pleased with the work that Graves Plumbing did and would like to work with them in the future.

The Committee will recommend the Board approve Change Order 1 for a credit in the amount of \$35,838.

#1602 Springmill Parallel Interceptor Project Change Order – Mr. Merkle reported to date one change order has been executed for placing flowable fill where the new sewer crosses 106th Street. Like the odor control project a final change order will capture remaining changes that had to be made as the project moved forward. Changes included removal and replacement of bad soils encountered during excavation, additional granular backfill, joint restrains on the nearby water main, remobilization after a two month delay beyond control of staff or contractor, relocation of remaining sewer work after another utility installed infrastructure in the way, and repairs to Springmill Road pavement. Mr. Shaver asked about recovering costs incurred by Carmel. Mr. Wyatt replied that it was not likely that any of these costs could be recoverable however, it would take some research and may require litigation. Mr. Hand asked if it would be prudent to at least document the situation as it relates to Carmel's culpability. Mr. Merkle replied that staff tries to maintain a good working relationship with Carmel and that is critical with so much work going on in our service area. Staff will continue to work with Carmel to recover incurred costs through other projects.

The Committee will recommend the Board approve Change Order 2 for the Springmill Parallel Interceptor project construction contract with Gradex, Inc., increasing the contract price by \$164,644.99 and adding 70 days to the contract time.

Spring Mill Road Rate Ordinance – Mr. Hartman presented the Spring Mill Rate Ordinance to establish the local construction cost for parcels within the Spring Mill Place and Spring Mill Heights subdivisions that can connect to the new Springmill Road Interceptor. The proposed rate will cover the cost of the lateral stub that was installed for each parcel. It does not split the large cost of the interceptor project among a handful of properties because the interceptor project benefits everyone in the central part of our service area, not just those properties. Unlike other neighborhood rate ordinances, it adds an interceptor fee. This will result in these properties paying roughly the same amount as the residents within the subdivision who could be serviced by a low-pressure sewer extension project in the future. Mr. Pittman asked for clarification of the location of the lines and Mr. Hartman said that the lines would be contained within the Springmill Place Subdivision. Mr. Shaver asked how interceptor fees are calculated. Mr. Wyatt replied that interceptor fees are already defined in an existing ordinance.

The Committee recommends a first reading of the Spring Mill Rate Ordinance 10-9-2017 at the October 10, 2017 Board of Trustees meeting.

Service Capacity Study – Mr. Merkle and Mr. Hartman presented preliminary studies on extending service to areas north and west of existing Basin 14. This effort was performed following receipt of service requests for parcels outside our current service area. Preliminary results show the District could service additional area, approximately 500 acres, north of 146th Street and a smaller area west of Michigan Road using existing infrastructure. Serving any more area than that would require substantial improvements to downstream infrastructure. Serving areas further north towards State Road 32 would require construction a lift station and forcemain. In the short-term flows would be pumped to Lift Station 14 and on to the Michigan Road WWTP, but eventually a new plant would have to be built to serve that area. The final studies are expected later next week and staff will follow up at future meetings. Impact on fees and rates was discussed, as was proposed development and rapid growth in Zionsville.

#### Other Business

Drew is at the WEFTEC Operators Challenge this week in Chicago. He mentioned that he met a gentleman named Ian Stiff who is with the US Department of Commerce, and he is from Indianapolis. He was very interested in watching our team perform. Mr. Merkle mentioned the response to IDEM that Drew mailed out to Board Members this week.

Mr. Merkle updated the committee on the compliance issue at the plant. The higher than normal numbers have been traced down to Lift Station 10, located in Ashbrook behind Home Depot, which serves commercial properties along Michigan Road including a new microbrewery. The elevated numbers have dropped, over the past month. Staff was also suspicious that some of the monitoring equipment may be causing errors in the test results. The issues are being resolved and IDEM is satisfied with the progress.

## UPDATES

#1505 - WWTP Odor Control Upgrades – Performance testing; punch list items remain.

#1601 - 106<sup>th</sup> Street Parallel Force Main – Most of the 18,000 feet of pipe installation is complete. Crews continue to work on restoration. Work remains at the valve vault at Ditch Road and at the Michigan Road WWTP. There was a two week delay in the delivery of valves, but now that they have arrived the rest of the assembly can be completed.

#1602 - Springmill Parallel Interceptor – Testing and punch list items should be complete in October. Reith-Riley has taken over the area for Carmel's roundabout project and path work.

#1701 - WWTP Post-Treatment Improvements – Staff is still waiting to submit permits until concerns of property owners are resolved.

#1702 - Keystone/96<sup>th</sup> Street Sewer & Force Main Relocation – This project will be bid and constructed once Carmel acquires right of way and easements to complete their work and ours. Bidding could happen later this year or next year.

#1705 – 99<sup>th</sup> Street Sewer Extension & Lift Station 6 Elimination – This project is still on hold until there is movement on the part of the developer. Additionally, down the road construction work will be contingent upon further movement by the developer.

#1707 – Multiple Neighborhood Sewer Projects – The design is ongoing. Staff will meet with the engineers on Tuesday of this week. Mr. Merkle handed out a spreadsheet that summarizes the un-sewered neighborhoods left in the District's service area.

#1801 – Lift Station 4 Elimination – Staff is working with Jackson's Grant to get one of two portions of the sewer completed. The other portion will be designed and built under a separate project; this portion crosses the Book property and ties into the lift station. The work should be complete next year, allowing Lift Station 4 to be taken offline.

Mr. Merkle thanked the Committee for staying late in order to get a good understanding of the District's projects.

The meeting was adjourned at 6:30 p.m.

Date and time for next meeting: Monday November 6, 2017 at 4:30 p.m.

Respectfully submitted,



Wes Merkle  
Engineering Manager





## MEMORANDUM

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**To:** C&C Committee  
**From:** Wes Merkle  
**Date:** September 29, 2017  
**Subject:** #1602 Springmill Parallel Interceptor  
Project Change Order 2

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To date one change order has been executed for placing flowable fill where the new sewer crosses 106<sup>th</sup> Street. This was done in place of compacted granular backfill, which was required per plan and approved by Carmel. A Carmel inspector demanded the contractor make this change while work was under way, presumably unaware that his department had already approved our plans. The following additional changes will be captured in a separate final change order:

- Removal and replacement of unsuitable soils for pipe bedding, additional pipe bedding, additional pavement replacement, and an additional lateral stub (\$43,886.42). Unsuitable soils were discovered while pipe installation was underway. In areas the new sewer had to be located closer to Springmill Road due to conflicts with existing utilities that were not properly marked during the design phase, requiring additional granular backfill. Also due to the westward shift in sewer alignment additional pavement had to be replaced near Spring Ridge Drive. Additional quantities were tracked by the contractor and inspector and paid at the unit prices provided in the contractor's bid. The additional lateral stub was added at Carmel's request, as Carmel negotiated to acquire property for right of way at 111<sup>th</sup> Street. This right of way was also needed for sewer installation on this project.
- Installation of joint restraints on the Carmel Utilities water main (\$8,816.88). This main ran along the east side of Springmill Road for much of the jobsite. Crews had to expose the water main on multiple occasions to install sewer, requiring installation of restraints on exposed pipe joints to maintain stability of the line. This was approved by Carmel Utilities. It is standard construction practice.
- Remobilization and sewer relocation at 111<sup>th</sup> Street (\$30,441.69 plus 70 days). The final length of sewer could not be installed until work by others was complete at this intersection for Carmel's roundabout work. Our contractor was delayed by over two months. The planned location of remaining sewer had to be changed at the eleventh hour because Carmel did not coordinate relocation efforts of utilities involved, and another utility was allowed to install new infrastructure in a location conflicting with our plans.
- Springmill Road repairs (\$81,500). This work was required because of unsuitable soils found during construction as well as installing sewer closer to the road as previously discussed. This destabilized the road base and damaged pavement despite efforts by the contractor to prevent pavement damage. Staff notes that roughly half of the road repair work was not attributable to these efforts. Damage caused by lacking efforts to protect pavement from damage by heavy trucks and equipment will be absorbed by the contractor.

**Recommended Action:** Approve Change Order 2 for the Springmill Parallel Interceptor project construction contract with Gradex, Inc., increasing the contract price by \$164,644.99 and adding 70 days to the contract time.

## Neighborhood Sewer Extension Project Information

Last updated: September 26, 2017

	Project Completion Year/Anticipated	Total Lots	Properties connected or requesting service	Percent connected or requesting service	Unsewered properties with known septic issues
1 Cedar Point	2016	82	7	9	N/A
2 Queens Manor	2017	43	5	12	N/A
3 Estancia	2017	7	2	29	N/A
4 Spring Hill Place/Spring Hill Heights	2018	37	5	14	1
5 Williams Creek Manor	2018	8	2	25	1
6 Autumn Woods Farms	2018	8	4	50	2
7 Lakewood Gardens	2019	60	12	20	1
8 Williams Creek Farms	2019	13	2	15	0
9 Crossfields	2019	33	6	18	0
10 Larkspur	2020	17	2	12	0
11 Oaktree	2020	13	1	8	0
12 Brandywine	2020	30	1	3	0
13 Woodhaven	2021	25	4	16	0
14 Timber Ridge	2021	15	0	0	0
15 Long Brook	2021	12	0	0	0
16 Bridlewood	2022	16	1	6	0
17 Countrywood	2022	48	0	0	0
18 Lacoma Estates	2023	13	0	0	0
19 North Augusta	2023	40	4	10	1

Unsewered subdivisions	16
Properties within unsewered subdivisions	388

Key:
Green = project complete
Blue = project in design or construction
Red = future project, schedule TBD