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Mott MacDonald is pleased to submit this proposal to amend our existing contract through which we are supporting the Town of West Orange to address compliance issues related to the MS4 permit. Mott MacDonald has completed the scope of work related to stormwater asset mapping as defined by the original contract under Items 7, 11a, and 12. However, the Town's stormwater assets greatly exceeded the initial estimates that were used to establish the original scope of work and additional work is required to meet the NJDEP requirements. This amendment addresses additional inspections of stormwater inlets, catch basins, and outfalls (hereafter referred to as Phase 2) that were not included in the original contract scope of work, herein after referred to as Phase 1. Costs will be billed monthly for time and materials similarly to Phase 1. We expect to start this work in the fall and complete it by the end of 2024.

The scope of work for Phase 2 includes the three tasks listed below. They are identified by the item number in the original contract. The proposed cost for Phase 2 is listed in the table at the end of the proposal.

Item 7 (Catch Basin Inspection and Maintenance - Part IV.B.5.b.ii)

Under this task, Mott MacDonald will conduct a field survey of the estimated remaining 2,300 Township inlets and catch basins (assets) located within the municipal public right of way that were included in the Phase 1 scope of work. For each asset, we will record the location and inspection data in accordance with the requirements of the permit, as in Phase 1.

Mott MacDonald will inspect assets as required by the NJDEP2018 MS4 permit accordingly. We will not field inspect assets located in private parking lots or along private roads, and will not inspect County or State owned assets. If any Township owned assets requiring inspections are located in easements outside of the municipal right of way, Mott MacDonald will require a Town employee accompany our field crews to help locate assets and coordinate access.

Mott MacDonald previously located and inspected 1,578 assets in Phase 1. Based on a review of the prior field survey and the historic stormwater maps, we estimate

the number of assets remaining as noted above. However, if there are significantly more asset to inspect than anticipated, we will inform the Town and provide a revised cost.

Item 11a Outfall Pipe Mapping and Inspections

Under this task we will conduct inspections of the estimated remaining 225 MS4 outfalls that discharge into public waterways that were not inspected under the Phase 1 scope of work.

Mott MacDonald inspected 74 outfalls in Phase 1. Based on the productivity of the prior field effort and a review of the 2009 outfall map we determined the estimated number of remaining outfalls to be inspected in Phase 2 as noted above. The same data will be collected for each outfall as in Phase 1. Similar to the Item 7 task, if there are significantly more outfalls to inspect than anticipated, we will inform the Town and provide a revised cost.

Item 12 (Outfall Pipe Stream Scouring - Part IV.B.6.b)

Under this task Mott MacDonald will inspect the surrounding area of each outfall located under Item 11a for scour and erosion. This task will be completed concurrently with the Item 11a task, as it was in Phase 1. The associated effort for this task is included in the Item 11a labor cost.

Project Team and Procedures

Field work will be conducted under the supervision of William DiBartolo, PLS. The Project Manager will be Kirk Barrett. Quality Control Review will be provided by Duane Chapman. All fieldwork on this project will be performed by Mott MacDonald personnel.

The survey and inspections will be conducted using internet enabled tablets running ESRI Field Maps data collection software and an attached Leica FLX100 GPS/GNSS antenna to enable more accurate X,Y locations of the surveyed assets then the standard smartphone or tablet GPS.

Following the field survey and inspections, we will load the data collected into a GIS database and our standardized QA/QC procedures will be applied to ensure features are valid, domain attributes are followed, and inspections forms are complete with associated attributes and photos attached. At the conclusion of the project the GIS data will be transmitted to the Town.

Assumptions

1. Mott MacDonald assumes that all storm assets will be accessible and readily identifiable within the public right-of way. It is also assumed that Township employees will be available to assist with locating, opening, and accessing assets.
2. Traffic control, if required, will be provided by the Township police department and any associated fees will be paid by the Township directly.
3. Our scope does not include the inspection of assets and/or outfalls located along County of State right-of ways, in private parking lots, or along private roads. We can perform these services under additional authorization from the Township.

Anticipated Labor Effort

Task	Hours	Cost
Inlet Inspections	313	\$36,100
Outlet Inspection	90	\$10,445
Data Processing	270	\$49,730
Project Management	40	\$8,274
Expenses -- mileage	NA	\$2,698
Total	712	\$107,247

This would increase the contract from its current value of \$88,500 (original contract of \$74,000 plus previous amendment of \$14,500 for the SPPP) to \$195,747.

If this is acceptable, please sign below to so indicate and return to us by email.

Finally, we would be happy to discuss providing additional services to the Township should you require it.

Regards,



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Accepted by the Township of West Orange

By (print name) _____ Position _____

Signature _____ Date _____