



WORK ORDER NO. 090908

In accordance with the Agreement for Professional Services between **City of Gahanna** ("Client"), and **URS Corporation – Ohio** ("URS"), an **Ohio** corporation, dated **July 25, 2006**, this Work Order describes the Services, Schedule, and Payment Conditions for URS Services on the Project known as:

City of Gahanna – McKenna Creek Stormwater Study – Phase 2

Client Authorized

Representative: Terrance A. Emery, Service Director
Address: Service Department, 200 South Hamilton Road
Gahanna, Ohio 43230
Telephone No.: 614-342-4000

URS Authorized

Representative: Gregory A. Otey, Vice President
Address: 277 West Nationwide Boulevard
Columbus, Ohio 43215
Telephone No.: 614-464-4500

SERVICES. The Services shall be described in **Attachment A** to this Work Order.

SCHEDULE. The Estimated Schedule shall be set forth in **Attachment A** to this Work Order. Because of the uncertainties inherent in the Services, Schedules are estimated and are subject to revision unless otherwise specifically described herein.

PAYMENT AND EQUITABLE ADJUSTMENTS. This is a lump sum Work Order. URS' lump sum compensation and provisions for progress and final payments are specified in **Attachment A** to this Work Order. Payment of **\$0** is due upon signature of this Work Order and will be applied against the final invoice for this Work Order. URS shall give Client prompt written notice of unanticipated conditions or conditions which are materially different from those anticipated by URS at the time the lump sum compensation was agreed upon. If Client wishes URS to proceed, URS' lump sum compensation shall be subject to equitable adjustment for such conditions.

TERMS AND CONDITIONS. The terms and conditions of the Agreement referenced above shall apply to this Work Order, except as expressly modified herein.

ACCEPTANCE of the terms of this Work Order is acknowledged by the following signatures of the Authorized Representatives.

CITY OF GAHANNA

Signature
Terrance A. Emery, Service Director

Typed Name/Title

Date of Signature

URS CORPORATION – OHIO

Signature
Gregory A. Otey, Vice President

Typed Name/Title
9-22-08

Date of Signature



**Attachment A
To
Work Order No. 090908**

City of Gahanna - McKenna Creek Stormwater Study - Phase 2

SCOPE OF WORK

Background – URS conducted an evaluation of the McKenna Creek Watershed and prepared a report of findings and recommendations in May of 2008. This Study concluded, in part, that a large share of the stormwater related problems experienced in the lower reaches of the watershed stem from the northern parts of the watershed which are located in the City of Columbus. The McKenna Creek watershed model was built based on several assumptions for the northern sections of the watershed. Very little data was available for the runoff and transport systems in this area.

The City of Gahanna would like to further investigate the portion of the watershed located in Columbus and develop additional alternatives to help solve flooding/erosion problems in the lower reaches of McKenna Creek. The scope of work included under this work order is as shown below.

TASK 1 – DATA COLLECTION

URS will collect City of Columbus Atlas Maps showing storm sewer layouts and construction drawings of developments located within the city limits of Columbus. Field inspections will be conducted to verify the existing field conditions of stormwater structures for conformance with the planned facilities.

TASK 2 – UPDATE MODEL

Based on the data collected in Task 1, URS will review the maps and plans and update the SWMM model to reflect conditions and storm sewer configurations as represented on the mapping. Rerun model for existing baseline conditions (10-yr, 25-yr and 100-yr design storms).

TASK 3 - DATA ANALYSIS

Based on the model runs in Task 2, develop additional alternatives, such as on-site detention of runoff at individual sites (i.e. Kohl's, Stein Mart development, Home Depot, etc.). Also, additional in-line or off-line detention will be investigated at property owned by the Ohio State University and other property located in the Hamilton Road/Beecher Road area. Green infrastructure initiative will also be investigated, as well as stormwater credits to those developments in the City of Columbus for the implantation of such improvements.

TASK 4 - DELIVERABLE

URS will prepare a Technical Memorandum which will serve as an Addendum to the May 2008 McKenna Creek Study Report. The Memo will include a discussion of model updates, possible improvements to existing stormwater conveyance systems, possible new detention basins and/or modifications to existing detention basin, possible new storm sewer conduits and other possible stormwater detention techniques that could help improve flooding issues downstream in the watershed.

SCHEDULE

URS proposes to complete this study within three (3) months after Notice to Proceed is issued.

FEE

The lump sum fee for completing the work as outlined in Tasks 1 through 4 shall be Nineteen Thousand Seven Hundred Dollars (\$19,700). URS shall submit monthly invoices based on the estimated percentage complete for the project.