Memorandum

To: Programs, Projects and Operations Subcommittee
From: Amanda Grint, Water Resources Engineer
Date: June 5, 2013
Re: Amendment #2 to Papillion Creek Watershed Partnership’s Stage IV Services – Update of Papillion Creek Watershed Plan Agreement with HDR Engineering

Since 2007, HDR Engineering has provided professional engineering services for the study of the Papillion Creek Watershed as authorized by the Papillion Creek Watershed Partnership (PCWP). The Stage IV study, completed in 2009, included a technical report covering details of peak flow reduction modeling using various combination scenarios with regional reservoirs and low impact development strategies as well as associated water quality impacts. HDR took direction from the Partnership, public meetings and several elected officials meetings to define a Watershed Management Plan and Implementation Plan for storm water quality and quantity. In 2009, the Partnership communities adopted the Implementation Plan and Watershed Management Plan as part of the 2009 Papillion Creek Watershed Interlocal Agreement.

The five year Papillion Creek Watershed Interlocal Agreement will need to be renewed by June 2014. There are several integral parts to the interlocal including a new Stormwater Management Plan for the Partnership members NPDES Phase 2 Stormwater permits, a new agreement and an updated Implementation Plan. In order to have adequate time for the Partnership communities to review and consider for adoption through their Boards and Councils, it is planned to have the interlocal agreement documents ready by the end of 2013. The Partnership recommends that the attached contract amendment with HDR Engineering be approved to provide the necessary services to update the Implementation Plan. The major tasks are summarized below:

- Project Management including attendance and presentations at PCWP meetings, NRD Board meetings and stakeholder meetings.
- Provide analysis and documentation to update estimated capital costs for structural plan elements and evaluate the timing and adequacy of available revenue streams.
- Prepare Implementation Plan with input from Partnership members and stakeholders to identify priority structures.

The Stage IV Services- Update of Papillion Creek Watershed Plan Agreement for Professional Services Amendment No. 2 proposes to provide the services to achieve the items noted above for a fee not to exceed $99,600. The contract and scope of services has been presented to and reviewed by the Partnership members. At the May 23, 2013 Partnership meeting, the member communities voted to approve the contract amendment (voting sheet attached).

Management recommends that the Subcommittee recommend to the Board that the General Manager as Administering Agent of the Papillion Creek Watershed Partnership be authorized to execute the Stage IV Services – Update of Papillion Creek Watershed Plan Agreement for Professional Services Amendment No. 2 with HDR Engineering, Inc. in the amount of $99,600, subject to changes deemed necessary by the General Manager and approval as to form by District Legal Counsel.
Record of Vote
May 23, 2013 - 10:00 AM to 12:00 PM – Board Room
Natural Resources Center, 8901 S. 154th Street, Omaha, NE

Vote to Approve HDR Engineering, Inc. Contract Scope of Work to Update the Partnership Implementation Plan

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June 5, 2013

John Winkler
General Manager
Papio-Missouri River Natural Resources District
8901 S. 154th Street
Omaha, NE 68138-3621

RE: Stage IV Services – Update of Papillion Creek Watershed Plan Agreement for Professional Services Amendment No. 2

Dear John:

Enclosed is Amendment No. 2 that outlines modified professional services to be performed in connection with the Papillion Creek Watershed Plan Update. Amendment No. 2 adds $99,600 to Stage IV to cover the addition of new services and project time through December 31, 2013. Therefore, the amended agreement is not to exceed the original Agreement (dated June 6, 2007) in the amount of $349,900 + Amendment No. 1 at $116,500 + Amendment No. 2 at $99,600 = $566,000. The purpose of Amendment No. 2 is to modify the scope of work to accommodate the recent desires of the P-MRN RD and the rest of the Partnership to the extent possible.

Please sign both copies of the Agreement and retain one copy for your records and return the other signed copy for our files.

If you have any questions, please contact me at 402-399-1329 at your convenience.

Very truly yours,

HDR ENGINEERING, INC.

Lyle R. Christensen, P.E.
Senior Project Manager

Enclosure
AMENDMENT NO. 2 TO AGREEMENT
FOR
ENGINEERING SERVICES

WHEREAS:

HDR ENGINEERING, INC. ("HDR") entered into an Agreement on June 6, 2007 to perform engineering services in connection with development of a Papillion Creek Watershed Plan (Stage IV Services) ("Project");

Papio-Missouri River Natural Resources District (OWNER) desires to amend this Agreement in order for HDR to perform services beyond those previously contemplated;

HDR is willing to amend the agreement and perform the additional engineering services.

NOW, THEREFORE, HDR and OWNER do hereby agree:

The Agreement and the terms and conditions therein shall remain unchanged other than those sections and exhibits listed below:

Exhibit SR-A, “Further Description of Services, Responsibilities, Time, and Related Matters,” shall be amended to include Exhibit SR-A2.

Exhibit SR-C, “Reimbursable Expenses Schedule,” shall be amended to include Exhibit SR-C2.

Attachment A, “Fee Estimate, Stage IV Services,” shall be amended to include Attachment A-2. The additional fee shall not exceed $99,600 without further authorization.

Attachment B, “Schedule, Stage IV Services,” shall be amended to include Attachment B-1.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment as of the day and year written below:

HDR ENGINEERING, INC. ("HDR")  PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT ("OWNER")

By:  

By:  

By: Ron Sova, P.E.  By: John Winkler

Title: Vice President  Title: General Manager

Date: June 5, 2013  Date:  
EXHIBIT SR-A2 – AMENDMENT NO. 2 SCOPE OF WORK

For Updating the Stage IV Papillion Creek Watershed Management Plan, April 2009
For Papillion Creek Watershed

BACKGROUND AND BASIS OF PROPOSAL

The purpose of Amendment No. 2 is to modify the existing Agreement for Stage IV services in order to provide a technical and administrative update to the April 2009 Watershed Management Plan (Plan Update) for the Papillion Creek Watershed Partnership (PCWP), as administered by the Papio-Missouri River Natural Resources District (P-MRNRD).

SCOPE OF SERVICES

The basic objectives of this Plan Update are:
- Provide participation in PCWP and P-MRN RD meetings.
- Update the capital and cash flow analyses, including an evaluation of the adequacy of current developer fees and other revenue streams needed to finance remaining Watershed low impact development (LID) water quality enhancement and remaining flood control projects.
- Facilitate and present the updated financial analyses at a joint financial/planning stakeholder meeting.
- Provide meeting and Plan Update deliverables.

The original Agreement and Amendment No. 1 thereto were segmented into a series of tasks. The tasks that will specifically apply to the proposed Plan Update services are as follows:

- Task Series 100 Project Management
  - Task 110 Internal Project Management
  - Task 120 PCWP and P-MRN RD Board Meetings
- Task Series 400 Technical Materials and Watershed Plan Report
  - Task 420 Prepare Watershed Plan Report
- Task Series 500 Financial Analyses and Implementation
  - Task 520 Capital and Cash-Flow Analyses
  - Task 530 Implementation Plan
  - Task 540 Grant Funding
- Task Series 600 On-Call Services – additional Plan Update services that only apply as designated by and at discretion of the P-MRN RD.

Details of the proposed services are provided as follows:
**TASK SERIES 100 – PROJECT MANAGEMENT**

Additional project management activities including general administration and meetings will be conducted.

**Task Objective:** Confirm that Project elements are being completed as needed.

**Task 110 Internal Project Management.** This Task includes scheduling, administration, coordination, and quality control activities within the HDR project team. Internal HDR project team meetings will be conducted as necessary to discuss tasks, provide project updates, review deliverables, etc.

**Task 120 PCWP Meetings.** It is assumed that the work under this Task 120 will require ten (10) meetings as follows:

- Five (5) PCWP meetings (regular and sub-committee meetings in combination).
- One (1) financial/planning stakeholder meeting. This meeting will involve presentation of the Task Series 500 – Financial Analysis and Implementation work. Attendees, at the invitation of the P-MRNRD, are anticipated to include MOBA, MAPA, the Home Builders Association of Greater Omaha, financial and development planning experts, and representatives from the PCWP and P-MRNRD. The purpose of the meeting will be to review estimated land consumption trends, project timing, and the financial elements of the Plan Update, including capital costs and needed revenue streams.
- Two (2) P-MRNRD sub-committee meetings and two (2) P-MRNRD Board meetings in combination.

**Task Deliverables:**

- Monthly project status reports (to be attached to HDR invoices).
- Assistance in preparing meeting agenda and presentation items related to the other Task Series below.
- Written review comments for draft meeting minutes prepared by the P-MRNRD.
- Hand-outs in electronic format for printing by the P-MRNRD staff for the designated P-MRNRD meetings. For the final P-MRNRD Board meeting it is assumed that a brief PowerPoint slide presentation will be needed.
- Miscellaneous meeting materials not otherwise specifically described by other Tasks herein.

**Key Understandings:**

HDR will participate in the number of meetings outlined above, unless otherwise directed. The number of meetings can be reduced or increased at the discretion of the P-MRNRD. An increase in the number of meetings will be covered under Task Series 600 under On-Call Services, but compensating reductions in basic services may be necessary in order to remain within the project budget.
TASK SERIES 400 – TECHNICAL MATERIALS AND WATERSHED PLAN REPORT

Task Objective: Provide a draft and final Plan Update report in electronic format that summarizes the work elements described in Task 420 below.

Task 420 Prepare Watershed Plan Report. This Task 420 is intended to cover the draft and final versions of the Watershed Management Plan Update. As such, it will incorporate the elements listed below and further described in Task Series 500. The completed Task 420 services will include:

- A summary and status of hydrologic/hydraulic (H&H) issues since the original 2009 Stage IV Report.
- A summary of pertinent surface water quality regulatory changes that have occurred since the 2009 Report. This summary will be tabular in format and will include a map of impaired stream segments and water impoundments, similar to Table 2-1 and Figure 2-1, respectively, in the 2009 Report. The map will also include the locations of the current stream gauging stations and water quality sampling sites identified by the P-MRNRD.
- A full set of the current policies will be included in the Appendix to the Plan Update report as a matter of convenience; no changes will be made.
- Updated financial analyses from Task Series 500 for near-term and long-term structural elements within the Watershed.
- Supporting Plan Update maps. It is anticipated that two (2) additional maps will be required:
  - Updated “Watershed Management Plan for Full Build-Out Conditions” (Reference Figure 5-1 in 2009 Report).
  - Updated “Implementation Plan – Structural Components, Program Projects” (Reference Figure 6-1 in 2009 Report).
- Supporting digital graphic – suitable for a display board or a brochure. The graphic will depict the key Plan Update components desired by the PCWP.
- Electronic draft and final copies of the updated Plan Report in PDF format.

Task Deliverables: Submit draft and final Plan Update reports.

Key Understandings:

The report deliverables are to be furnished in electronic format to the P-MRNRD for printing, binding, and distribution. The report is not intended to include other technical deliverables that may be furnished for various meetings, unless they are suitable for direct incorporation into the Report without further modifications. Such additional technical deliverables are intended to be covered under Task Series 600, commensurate with the remaining overall budget.
Task Objective: Provide analyses and documentation necessary to update estimated time-dependent capital costs for construction of designated structural Plan elements and evaluate the estimated timing and adequacy of the various available revenue streams: PCWP tax-based fund contributions through inter-local agreements, P-MRN RD bonds, short-term loans, and developer fees administered through Sanitary and Improvement District S&ID) agreements assessed via building permits.

Task 520 Cash-Flow Analysis. Update the cash-flow analysis previously prepared under the April 2009 Plan. This will involve the following basic steps, subject to the availability of pertinent information:

- Population Projections. In the anticipated absence of updated input from the University of Nebraska’s Bureau of Business Research (BBR) that was previously made available for the 2009 Plan via the City of Omaha Planning Department, the overall population projections within the Watershed beginning in 2010 as a base year and continuing through 2050 in 10-year increments must be updated by information obtained by the P-MRN RD from the Planning Departments for the City of Omaha and Sarpy County. Planning staff have previously indicated that they desire to furnish their own projections based on revised land use practices, rather than making a percentage of error correction to the former BBR projections for 2010 and then essentially paralleling the former projection curve shapes for the remaining years. Therefore, in order to avoid project delays and extra project expense, it will be necessary to obtain those projections preferably by the end of June 2013 or by mid-July 2013 at the very latest.

- Land Use Maps. Similar to above, the Planning Departments for the City of Omaha and Sarpy County will also need to furnish any intended updates to the previous land use maps for Douglas and Sarpy Counties, respectively, since the April 2009 Plan through the P-MRN RD under the same time frame stipulated above in order to avoid project delays and the possibility of additional project expenses. In the absence of new, timely updates in land use mapping, the former land use maps applicable to the April 2009 Plan will have to be used with manual mark-ups. Updated land use maps should be preferably made available to HDR in GIS format; otherwise the use of scanned images may result in mapping distortion.

- Aerial Maps. HDR will arrange to directly obtain the most recent electronic aerial maps of Douglas and Sarpy Counties through the above-mentioned Planning Departments. It is assumed that there will be no cost to HDR for the map data.

- Population Allocations and Land Consumption. Previously developed GIS-based maps that delineate the major Papillion Creek tributary sub-watersheds and the most recent aerial photography will be overlain on GIS-based 2010 Census Tract boundaries. This methodology, along with the land use maps and aerial maps mentioned above will be used to estimate 2010 base year populations within the various sub-watershed boundaries. Population allocations and supplemental housing start data, building permit data, and other pertinent data and input from
Planning Department staff, will be used to develop estimates of changes in the rates of near-term and long-term future land use consumption and spatial distributions of development for each of the decades from 2010 through 2050 since the April 2009 Plan. For residential land use, due consideration will be made for the current remaining housing and vacant lot surplus and suppressed economic conditions that have occurred since the April 2009 Plan. There will be no attempt to adjust the spatial distribution and overall rates of land use consumption for commercial and industrial land uses, unless appropriate building permit or other predictive data are furnished by the Planning Departments mentioned above in electronic tabular or GIS format.

- **Project Ranking.** With feedback from the PCWP, update the priority ranking for near-term Program Projects and other remaining structural components within the Plan.

- **Capital Costs.** Update capital cost estimates for near-term Program Projects and other remaining structural components within the Plan based on a combination of recent land prices and project construction costs, projected indices from RS Means *Sitework and Landscape Cost Data*, and/or other rate of inflation projection tools.

- **Cash-Flow Projections.** Compare previous cash-flow projections to the actual cash flow that has occurred. With this comparison and the other informational inputs listed above, update the cash-flow projections in the 2009 Plan accordingly.

- **Revenue Stream Adequacy and Project Timing.** Review the apparent adequacy of developer fees and other revenue streams and the current and projected cash balance within the Watershed Management Fund; with due consideration being given to the P-MRN RD’s current and likely bonded indebtedness and tax mill levy. The implementation timing for proposed structural projects may have to be adjusted as the primary way to deal with any apparent funding shortfalls.

**Task 530 Implementation Plan.** Identify key components of the previous implementation Plan that may need to be revised in order to meet technical requirements and financial limitations. Prepare the implementation schedule for priority structural projects with feedback from the PCWP, P-MRN RD, and financial/planning stakeholders.

**Task 540 Grant Funding.** As a prerequisite to securing EPA/NDEQ 319 funding, the watershed management planning document must follow 9-point program guidance. The objective of this Task 540 will be to identify any apparent current deficiencies that may exist with respect to NDEQ’s and EPA’s 9-point program guidance in order to qualify for such funding. HDR will prepare a tabular index of where such 9-point program requirements should likely be met within the text of the April 2009 Plan and Plan Update, as well as identifying probable remaining program deficiencies. It is anticipated that consultation with NDEQ will be necessary. Such consultation will be in the form of inviting NDEQ to one of the PCWP meetings or via a conference call. The results of the 319 grant funding analysis will be summarized in the Plan Update report. It shall be understood that the work under this Task 540 will not include direct assistance in applying for such grant funding.
**Task Deliverables:** Draft tabular and graphical summaries and other associated hand-out materials in electronic format for printing and distribution by the P-MRNIRD for various meetings. Such deliverables will subsequently be incorporated into the Plan Update report to the extent appropriate.

**Key Understandings:** The previously described work elements are intended to provide adequate documentation for important near-term and long-term financial decisions. Such work element technical approaches may be adjusted if deemed necessary by the P-MRNIRD commensurate with the available project budget. In particular, due to the uncertain nature of the adequacy of the data that is to be obtained under Task 520, it may be necessary to simplify the land use consumption calculations by making broader-based assumptions and/or supplementing the estimated hours for Task 520 with hours otherwise allocated to Task 600. The goal will be to provide well-documented land use consumption estimates, subject to the overall budget constraints.

**TASK SERIES 600 – ON-CALL SERVICES**

**Task Objective:** This Task Series 600 is intended to provide as-needed, on-call assistance within the confines of the Amendment No. 2 Plan Update budget remaining beyond that may be already incurred or projected to fulfill Task Series 100 through 500 work described above. It shall be understood that the Task Series 600 cost allocation is subject to the Key Understandings for Task Series 100 through 500. That is, it is recognized that the PCWP and P-MRNIRD may authorize additional efforts within Task Series 100 through 500 beyond that originally estimated in order to better fulfill desired needs. That is, the purpose of Task Series 600 is to provide contingency funds for HDR assistance for such things as additional stakeholder meetings and additional technical assistance to analyze issues in more detail beyond that assumed in other task series above. The following task descriptions are solely offered for the purpose of examples for potential on-call service assistance. The P-MRNIRD may redefine and reallocate any and all remaining budget at the time of a request as it sees fit, provided that adequate budget remains to fulfill other previously assigned work elements.

**Task 610 Additional Meetings.** HDR will provide as-needed, on-call technical advisory and/or meeting facilitation services for additional meetings that may be scheduled by the PCWP or P-MRNIRD in addition to the meetings identified under Task 120 above. In that regard, HDR is prepared to provide PowerPoint slides, hand-outs, and other digital graphics in electronic format for printing and distribution by the P-MRNIRD.

**Task 620 Other Technical Assistance.** This Task is intended to include any other as-needed, on-call technical assistance deemed necessary by the PCWP and P-MRNIRD that is not otherwise included with preparation for and participation in Task 610 meetings or to supplement any of the Task 100 through Task 500 work elements.

**Task Deliverables:**
• Handout materials to support Task 610 meetings, if applicable.
• Other technical materials for other Task 620 technical assistance.
• Appropriate materials will be included in modified Task 420 reporting activities as directed by the P-MRNRD.

Key Understandings:

• A nominal budget allowance has been provided in the Fee Estimate as a part of Attachment "A-2" to cover as-needed, on-call work under this Task Series. The P-MRNRD may re-allocate both work activities and budget within this Task Series to meet the particular needs desired, provided that sufficient remaining budget exists to sustain previously assigned Task Series 100 through 500 work.
• HDR will prepare a series of cursory cost estimates for providing Task Series 600 on-call work in advance of the desired work for review and authorization by the P-MRNRD. That is, HDR will maintain on-going cost tracking of all work efforts and will outline the estimated level of on-call and other previously assigned services that can be provided within the remaining budget.
• It is assumed that on-going authorizations can be in the form of written email, letters, and/or meeting minutes, prior to services rendered rather than requiring prior separate P-MRNRD Board action.
• It is to be understood that the HDR will not be expected to incur labor and expenses beyond the remaining budget for this Task Series without an additional amendment to the Agreement for Stage IV services. To this end, the P-MRNRD shall make every effort to minimize budget over-runs through the careful consideration of services requested.
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[1] Administrative fees for reimbursable expenses and subconsultants: 10%
[2] Assumes a project duration of seven (7) months for basic services.
[3] Assumes a base level of ten (10) meetings: 5 PCWP meetings + 1 financial planning stakeholder meeting + 2 P-MNMRD Sub-Committee meetings + 2 P-MNMRD Board meetings; the final of which includes a PowerPoint presentation.
[4] At P-MNMRD discretion, for example only, assumes four (4) additional meetings.
[5] At P-MNMRD discretion, for example only for additional technical assistance.
## ATTACHMENT "B-2"

Papio-Missouri River Natural Resources District
Papillion Creek Watershed, Stage IV Amendment No. 2

### ESTIMATED SCHEDULE

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<tbody>
<tr>
<td><strong>TASK 100 - PROJECT MANAGEMENT</strong></td>
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<td>Task 110 Internal Project Management</td>
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<tr>
<td>Task 120 PCWP Meetings</td>
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<td>Task 130 P-MRNRD Board and Sub-Committee Meetings</td>
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<tr>
<td><strong>TASK 400 - TECHNICAL MATERIALS AND WATERSHED PLAN REPORT</strong></td>
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<td>Task 420 Prepare Watershed Plan Report - UPDATE</td>
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<td><strong>TASK 500 - FINANCIAL ANALYSIS AND IMPLEMENTATION</strong></td>
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<td>Task 520 Capital and Cash-Flow Analyses - UPDATE</td>
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<td>Task 530 Implementation Plan - UPDATE</td>
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<td>Task 540 Grant Funding Research - NEW</td>
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<td>Task 550 Financial/Planning Stakeholder Meeting - NEW</td>
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<td><strong>TASK 600 - ON-CALL SERVICES</strong></td>
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<td>Task 610 Additional PCWP/Stakeholder Meetings</td>
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<td>Task 620 Other Technical Assistance (6)</td>
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**Legend**

- **PM**: Estimated time required for task.
- **Bo**: Denotes a Partnership meeting attended by HDR Project Team.
- **Ed**: Denotes a P-MRNRD Board meeting attended by HDR Project Team.
- **Re**: Denotes a P-MRNRD Sub-Committee meeting attended by HDR Project Team with a brief PowerPoint presentation.
- **St**: Denotes stakeholder meeting.
### EXHIBIT SR-C2
Papio-Missouri River Natural Resources District
Papillion Creek Watershed, Stage IV Amendment No. 2
Reimbursable Expenses Schedule

<table>
<thead>
<tr>
<th>Description</th>
<th>Est. Cost</th>
<th>Unit</th>
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<tbody>
<tr>
<td>Technology Fee</td>
<td>$3.70</td>
<td>Direct Labor Hr</td>
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<tr>
<td>Meals (lunch) per coordination meeting</td>
<td>$45</td>
<td>per meeting</td>
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<tr>
<td>Ground Travel</td>
<td>$0.565</td>
<td>per mile</td>
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<tr>
<td>Report Covers and Binders (depend on size/kind)</td>
<td>$1.60 to</td>
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<tr>
<td>Printing, B/W, Letter Size</td>
<td>$2.60</td>
<td>per copy</td>
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<td>Printing, B/W, 11&quot; x 17&quot; Size</td>
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<td>per sheet</td>
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<tr>
<td>Printing, Color, Letter Size</td>
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<tr>
<td>Printing, Color, 11&quot; x 17&quot; Size</td>
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<td>per sheet</td>
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<tr>
<td>Printing, Print Shop Report Tab Indexes</td>
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<td>each</td>
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<tr>
<td>CD-ROM Production + Label and Case</td>
<td>$25</td>
<td>per disc</td>
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<tr>
<td>Presentation Boards (plot and mount)</td>
<td>$175</td>
<td>each</td>
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<tr>
<td>Color Plotting for Maps</td>
<td>$0.95</td>
<td>per Sq. Ft.</td>
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