MEETING NOTICE

THERE WILL BE A MEETING OF THE LITTLE CALUMET RIVER BASIN DEVELOPMENT COMMISSION
AT 6:00 P.M. THURSDAY, FEBRUARY 7, 2002
AT THE COMMISSION OFFICE
6100 SOUTHPORT ROAD
PORTAGE, IN

WORK STUDY SESSION - 5:00 P.M.

AGENDA

1. Call to Order by Chairman William Tanke
2. Pledge of Allegiance
3. Recognition of Visitors and Guests
4. Approval of Minutes of January 3, 2002
5. Chairman’s Report
   - Committees organization for year 2002
   - Report on meeting with new Deputy District Engineer Ray Coughenour
5. Executive Director’s Report
   - Report on meeting in Indianapolis January 16th with Governor O’Bannon’s staff
   - Project Mitigation Status Update
     - Letter from Shirley Heinze Environmental Fund
     - Recommendation regarding agreement with IDNR to perform Hobart Marsh acquisition
   - Report on public meeting for Stage VII (Northcote to Columbia) held January 30th at Wicker Memorial Park Social Center
   - Presentation by staff at Sand Creek for regional trails meeting
7. Standing Committees
   A. Land Acquisition/Management Committee - Arlene Colvin, Chairperson
      • Appraisals, offers, acquisitions, recommended actions
      • COE Real Estate meeting held on January 24th
      • O&M issues – Gary Sanitary District ongoing concerns
      • Thank you letter to Gary Sanitary District
      • Other issues
   
   B. Project Engineering Committee – Bob Huffman, Chairman
      • Status of engineering cost savings items
      • Status of requests to the COE re outstanding issues
      • Commission response to INDOT request for review of their project impact to Little Cal project
      • Other issues
   
   C. Legislative Committee – George Carlson, Chairman
      • Update of status on legislative session
      • Other Issues
   
   D. Recreational Development Committee – Curtis Vosti, Chairman
      • Recreation features currently on hold
      • Other issues
   
   E. Marina Development Committee – Bill Tanke, Chairman
      • Receipt of marina build out cost figures and financial report for year 2001
      • Other issues
   
   F. Finance/Policy Committee – Curt Vosti, Chairman
      • Financial status report
      • Approval of claims for February 2002
      • State Board of Accounts audit in process for years 1997-98-99-00
      • Other issues

   G. Minority Contracting Committee – Marion Williams, Chairman

8. Old Business
   • Notification to west reach communities of 75’ drainage easement
   • Issue of residents Mr. & Mrs. Stotz’ drainage ditch
   • Krosan encroachment on drainage easement

9. New Business

10. Statements to the Board from the Floor

11. Set date for next meeting
MINUTES OF THE LITTLE CALUMET RIVER BASIN DEVELOPMENT COMMISSION
HELD AT 6:00 P.M. THURSDAY, JANUARY 3, 2002
6100 SOUTHPORT ROAD
PORTAGE, INDIANA

Chairman William Tanke called the meeting to order at 6:10 p.m. All eleven (11) Commissioners were present. Pledge of Allegiance was recited. Quorum was declared and guests were recognized.

Development Commissioners:
George Carlson
Emerson Delaney
Mark Reshkin
William Tanke
Steve Davis
Bob Huffman
Curt Vosti
John Mroczkowski
Arlene Colvin
Marion Williams
Robert Marszalek

Visitors:
Bill Petrites – Highland resident
Don Ewoldt – Lake Erie Land Company
Jomary Crary – IDNR, Div. of Water
Matt Boller – IDNR, Div. of Water
Sandy O’Brien - Hobart
Jim Flora – R.W. ARMSTRONG CO.
Mark Lopez – Congressman’s office
Deb Lawrence - IDNR
D. Taborski – Black Oak resident
Glenn & Pat Stotz – Black Oak residents

Staff:
Dan Gardner
Sandy Mordus
Jim Pokrajac
Judy Vamos
Lorraine Kray
Lou Casale

Commissioner Bob Huffman made a motion to approve the minutes of December 6, 2001 after a correction was made showing that Deb Lawrence attended that meeting; motion seconded by Curt Vosti; motion passed unanimously.

Chairman’s Report – Chairman Tanke asked for a report from the Nominating Committee (Emerson Delaney, Chair; Arlene Colvin, and Steve Davis). Nominating Committee Chairman Delaney reported that they had met and decided that, in light of the fact the officers’ terms used to be for 2 years, and some consistency should be given in dealing with the financial situation of the Commission down state, and with a year going by so quickly that as soon as you are comfortable with the officer position, the year is up, it was decided that the current officers should serve a second year term. The committee felt that this would serve the best interest of the Commission as a whole. Two Commissioners adamantly opposed – George Carlson and Curt Vosti. Mr. Vosti, who currently serves as Treasurer, withdrew his name for a second term. Mr. Carlson opposed because he felt that the officer positions and the committee chairman positions should be spread as evenly as possible among the Board members. He stated that Mr. Tanke has served as chairman six times prior to this time and no other Commission member has served over two terms. After much discussion, the nominations proceeded. Mr. Delaney nominated Bill Tanke as Chairman; nomination seconded by Bob Huffman. Mr. Carlson nominated Bob Huffman as Chairman; nomination seconded by Curt Vosti. Marion Williams nominated George Carlson as Chairman but Mr.
Carlson declined the nomination based on his hearing problem. There being no further nominations for Chairman, nominations closed. Discussion followed. Arlene Colvin supported the position that the Nominating Committee has taken, citing that there is no set policy, a two year term would give a member added knowledge and confidence to his position, and experience from serving a two year term would be valuable. Mr. Vosti added that this is an issue that the Finance/Policy Committee needs to review. Mark Reshkin added that both candidates are qualified and he would be happy with either one of them thereby making it difficult to vote. Mr. Vosti made a motion to proceed with a roll call vote; motion seconded by John Mroczkowski; motion passed unanimously. Mr. Gardner called the roll and took the vote; the results being 6 votes for Bill Tanke and 5 votes for Bob Huffman. Mr. Vosti made a motion that Mr. Tanke be elected chairman by acclamation; motion seconded by Marion Williams; motion passed unanimously. There being no other nominations for Vice Chairman, Mr. Vosti made a motion to elect Bob Huffman as Vice Chairman; motion seconded by John Mroczkowski; motion passed unanimously. Since Mr. Vosti withdrew as Treasurer and there were no other nominations for this position, he will continue to serve in this capacity until a replacement is elected at the next meeting. There being no other nominations for Secretary, Mr. Vosti made a motion to elect John Mroczkowski as Secretary by acclamation; motion seconded by Bob Huffman; motion passed unanimously. After some further discussion, Arlene Colvin made a motion to formally adopt some rules relating to serving on the Board and add this to the list of policy items that need to be addressed by the Finance/Policy Committee; motion seconded by Bob Huffman; motion passed unanimously. Mr. Vosti stated that before the next meeting, the Finance/Policy Committee will meet to address some of these issues. Chairman Tanke added that if there was anything else that needed to be added, let staff know. Mr. Carlson noted that he was happy with how the election went and that it was probably the most democratic election we've had.

Chairman Tanke referred to the appointment letter for Robert Marszalek and welcomed him to the Commission and also referred to the reappointment letter for George Carlson for an additional 4 year term.

Executive Director's Report - Executive Director Dan Gardner referred to the handout flyer on the new deputy district director Ray Coughenour. He has offered to come to our next meeting in February so he can meet the Commissioners.

Mr. Gardner informed the Board members that two meetings had been held on December 12th and 18th with the COE, IDNR, National Lakeshore, SHEF and the LCRBDC regarding the mitigation issue. SHEF is meeting tonight in executive session to discuss this issue. At this time, we do not know whether they want compensation. It was discussed with the National Lakeshore that they may have some properties that could be used for mitigation. Mr. Gardner distributed a memo from IDNR that offers their help in the acquisition process. They have expressed a clear desire to help us move this process forward. Once we know where SHEF stands, we will know how to proceed.

Mr. Gardner announced another public meeting will be held for Stage VII (Columbia to Northcote). Plans for that segment will be available at the meeting and a question and answer period will follow. All Commissioners are invited.

Land Acquisition/Management Committee - Committee Chairperson Arlene Colvin gave the committee report. She reported that there were no increased offers and she proceeded to make a motion authorizing condemnation on DC59, 209, 210, 211, 212, 213, 213A; motion seconded by Bob Huffman;
Judy Vamos responded to Mr. Vosti's question on where the properties were located and why they were being condemned. Motion passed with 10-1 with Steve Davis abstaining.

Project Engineering Committee – Committee Chairman Bob Huffman gave the engineering report. He reported that we received a letter from INDOT consultant, Hanson Professional Services, regarding their upcoming construction on I-80/94 and asked for our input regarding their project. One concern we have is the runoff from construction into wetlands areas along the corridor, especially Carlson-OxBow Park. Staff will transmit that concern to Hanson.

Staff has submitted a letter to the COE regarding value engineering items regarding project construction that we feel would save on project costs. It would entail re-engineering and for that reason, the COE may reject these ideas. No response has been received yet. If we would receive a favorable go-ahead from the COE, we would have R. W. Armstrong Co. do an economic justification analysis of those items.

Mr. Huffman also reported that a pre construction meeting conducted by Lake County Highway Dept. was held today regarding Hohman Avenue bridge project.

Mr. Huffman reported that a lengthy discussion was held in the Work Study Session on the issue of WIND reimbursement costs they have submitted to us. Staff and attorney are reviewing.

Chairman Tanke directed staff to compile a list of outstanding issues that have not been addressed or resolved by the COE and have a report for our next meeting.

Legislative Committee – Committee Chairman George Carlson gave the legislative report. He reported that the special legislative session starts Monday and according to the media, it appears that the raising of taxes will be the solution to the state’s funding problems. The concern is that if the State has funding problems, then the Commission has funding problems. We still have $2.5 million down state that has been allocated to the Commission.

Mr. Carlson reported that Mr. Gardner and attorney Casale are meeting with the Governor’s staff on January 16th. They will report back.

Recreational Development Committee – Committee Chairman Curt Vosti gave the Recreation Report. There is no activity in recreation at this time. He reported that staff will be setting up a meeting with NICETD to talk about proposed trail alignment along the old Monon railroad crossing in Hammond. Commissioners Vosti, Delaney and Huffman requested they would like to be notified of the meeting.

Marina Committee – Committee Chairman Bill Tanke stated that a meeting has not been scheduled yet with the city. We have received no costs estimates for marina build-out at this point and those numbers are needed to proceed to any other level. Mr. Vosti questioned the length of time we have been waiting for a meeting with the city and suggested that another approach may be necessary. Attorney Casale said he would contact the city attorney to see how to proceed.

Finance/Policy Committee – Treasurer Curt Vosti gave the Finance report. Mr. Vosti referred to the revised claim sheet and proceeded to read off the additions/changes from the claim sheet that was in the agenda packet. He asked that, in the future, staff separate out the revised figures from the original claim sheet so the changes can be readily reviewed. Mr. Vosti made a motion to approve the monthly financial report and the revised claim sheet in the amount of $61,513.98; motion seconded by Arlene Colvin; motion passed unanimously. Mr. Vosti reported that a committee meeting will be held within the next 2 weeks to continue discussion on policy issues that need to be addressed. Staff will inform all Board members when that meeting is scheduled.
Minority Contracting Committee – Committee Chairman Marion Williams reported that we continue to receive minority reports from the COE. He added that he felt the committee needs to set some clear goals and objectives in the near future and share this with all Commissioners.

Other Business – Chairman Bill Tanke asked Commission members to submit a committee preference sheet to Sandy.
Chairman Tanke proceeded to share a few thoughts with fellow Board members. He stated that he thinks the Commission has done a good job during this past year in their cooperative efforts with the State and with the COE. Meetings down state have been informative and successful and we will continue working with them. He stressed the need to continue to make our best efforts to approach legislators for continued support in this year. He felt that O&M funding is still a big issue and it needs to be an ongoing item of discussion. An accounting of present state cash on hand needs to be done and identified on the best way to spend those monies. With the state funding situation such as it is, he feels a plan is needed on how to keep this Commission going to see the project through to its completion. He also feels that closer cooperation with the mayors of Hammond and Gary needs to happen. One item he would like to change on the Commission agenda is that he feels it would be a good idea to list out unfinished items each month that are ongoing and require staff follow-up.
Bob Huffman commented that this was the first time in a long time that the Commission has had 100% attendance and hopes that it continues. He then thanked his fellow Board members for their support and vote but was completely comfortable with Mr. Tanke being chairman for another year.
Mr. Huffman also welcomed newest member, Bob Marszalek to the Commission.
Arlene Colvin reminded the Commissioners that Bob Huffman will carry the Olympic torch on January 4th. He will accept the torch at 23rd & Broadway in Gary. If interested, be there at 11:30 a.m.

Statements to the Board – Sandy O’Brien, Hobart, stated she was glad that we were concerned about road runoff into the river during interstate construction and also brought to our attention her concern about runoff from the Flying J Truck Stop in Gary. She also commented that she has been following the Commission’s progress regarding mitigation for about 3 years now and is concerned about Hobart Marsh land being bought up and not being available when we are ready to proceed and still thinks we need to pursue in getting financial help from one of the agencies that buy land and hold it for you.
Chairman Tanke thanked Mark Lopez for his attendance tonight.
Mr. and Mrs. Stotz, who live in Black Oak between Calhoun and Colfax, expressed concern about their remaining property that we have an easement on and their non-ability to access it for mowing. The ditch on that easement prevents them from accessing that area. Staff will look into it and report back at the next meeting.
The next meeting was scheduled for Thursday, February 7th at 6:00 p.m.

/sjm
January 24, 2002

Mr. Dan Gardner, Executive Director
Little Calumet River Basin Development Commission
6100 Southport Road
Portage, IN 46368

Dear Mr. Gardner:

The Heinze Fund is pleased to see progress being made in the mitigation project in Hobart Marsh, and I want to reiterate my organization’s desire to be helpful in facilitating that process.

The Heinze Fund’s role in the project will, however, have to be altered from that originally envisioned. We have been informed by the U.S. Fish & Wildlife Service that properties acquired with the use of federal funds under the North American Wetlands Conservation Act and those offered as match in the application for grants under the Act cannot be used for mitigation projects such as that proposed in Hobart Marsh. This effectively precludes the use of all major properties firmly under Heinze Fund ownership, i.e. Bur Oak Woods, Spangler, Cedano, Sammy.

We do, however, wish to demonstrate our commitment to mitigation in Hobart Marsh by serving as landowner for properties newly acquired for the project. To that end, I propose we resume negotiations on an agreement that would govern that relationship. We also note enthusiastically the similar offer made by the DNR as another positive step in moving this project forward. We look forward to accepting the Commission’s offer to make its contracted real estate expert available to complete necessary land acquisition requirements and conduct negotiations.

I can assure you that Heinze Fund properties in Hobart Marsh will be maintained as natural areas, even though they may not be part of the mitigation project. We will continue to enhance these properties to the extent permitted by our resources and ability to acquire grants. We look forward to working together with the DNR, the National Lakeshore, and the Commission on long-term management issues for this important natural area.

Sincerely,

Ron Trigg
Executive Director

cc: Hon. Peter Visclosky, Jeff Viohl, Dale Engquist, Col. Mark Roncoli, Imad Samara, John Bacon, Bill Maudlin, Marty Maupin, Greg Moore

Dedicated to the Preservation of Land in the Indiana Dunes since 1981

444 BARKER ROAD MICHIGAN CITY, IN 46360 (219) 879-4725 FAX (219) 879-4618 www.heinzefund.org
January 2, 2002

Mr. Dan Gardner, Executive Director
Little Calumet River Basin
Development Commission
6100 Southport Road
Portage, Indiana 46368

Dear Mr. Gardner:

I was pleased to learn that there is significant progress being made regarding the startup of the Hobart Marsh mitigation project. As you know, the Department of Natural Resources has been committed to providing assistance in whatever way we can. While you continue to explore ways to cooperate with other partners on some of the needed mitigation acreage, I'd like to follow up on the progress made at the December 18, 2001 meeting, which was attended by staff from the Indiana Dunes National Lakeshore, Little Calumet River Basin Development Commission, U. S. Army Corps of Engineers, Shirley Heinze Environmental Fund, and the Indiana Department of Natural Resources.

The Department of Natural Resources would like to offer our land acquisition assistance on certain parcels within the Hobart Marsh Project Area. These parcels are adjacent to land owned and managed by the Indiana Dunes National Lakeshore (Kim, Cedano, and 3 parcels owned by Nozrik – see attached map). We would like to take LCRBDC up on the offer of the services of Judy Vamos to contact landowners and negotiate with willing sellers to get the tracts ready for acquisition. Her assistance is especially relevant since she is already working with one of the owners (Nozrik) on another tract within the Little Calumet floodplain. Since you now have some funds available for this purpose and if Judy can get the parcels ready, we are offering to furnish the necessary documents, take title, and hold them in the short term. The National Lakeshore is willing to commit to the eventual ownership and management of these parcels, if they receive the necessary authorization, and we would plan to transfer these lands to them once they were able to accept them.
We are all excited by the possibility of actually getting started on this important mitigation project. As you continue to negotiate with other partners and further implement the mitigation plan for this area, please let us know when we can be of assistance.

Sincerely,

[Signature]

John M. Davis, Deputy Director

CC: Jeff Viohl, Office of the Governor
    Honorable Peter J. Viscloskey
    Dale Engquist, Indiana Dunes National Lakeshore
    Ron Trigg, Shirley Heinze Environmental Fund
    Colonel Mark A. Roncoli, Corps of Engineers
    Imad N. Samara, Corps of Engineers

Attachment: map
LITTLE CALUMET RIVER FLOOD CONTROL RECREATION PROJECT

PUBLIC MEETING STAGE VII
(Columbia Avenue to Northcote Avenue)

WICKER PARK SOCIAL CENTER
30 JANUARY 2002  6:30 pm

AGENDA

I. Little Calumet River Flood and Recreation Project
   Executive Director Dan Gardner will introduce tonight's guests
   and explain the purpose and timetable of the project.

II. Video Presentation of the Project (seven minute video)
   This short video presents project accomplishments to date.

III. Army Corps of Engineers
    Little Calumet River Project Manager Imad Samara will present
    a general review of the flood control and recreation project.

IV. Army Corps Consultant/Contractor Earth Tech, Inc.
   Earth-Tech, Inc. Vice-President Meley Pond will explain the
   contractor's design approach and general overview of the plans.

V. Question and Answer Period

VI. Adjourn: Meeting attendees may view maps at the side table.

* The Little Calumet River Basin Development Commission and the United States Army Corps of Engineers thank everyone who attended tonight's meeting. Please take a hand-out and phone list for future reference.
Leaders push to bridge Chicago to Indiana bike paths

BY KIM CHIEVRE
Times Business Writer

CHESTERTON — An experienced cyclist climbs on his bike in Portage and ends up in... Chicago? It's not such a farfetched notion, according to some of those working to link the local bicycle trails in Northwest Indiana and the Chicago area.

About 200 people met Saturday morning at Sand Creek Country Club in Chesterton to represent groups interested in developing and ultimately linking the bicycle trails that crisscross Michigan, Indiana, and Illinois, including six "rails to trails" projects in Northwest Indiana.

"Mayor (Richard) Daley is a big fan of bicycling," said Luan Hamilton, director of transportation development for the city of Chicago. "He always wants us to find longer routes."

Hamilton said Chicago was working to extend its lakefront bicycle trail into Indiana. That trail now ends south of Chicago's 71st Street, but Hamilton said city officials would like to see it connect to the Erie Lackawanna / Conrail bike trail that cuts diagonally through Lake County from rural Crown Point through Munster.

While munching on a health-conscious fruit and muffin breakfast, the planners, environmentalists and cycling enthusiasts studied maps of the suggested trails. The gap between Illinois and Northwest Indiana bicycle paths is just one of several gaps that keep cyclists from being able to ride a continuous trail from the Dunes State Park to Chicago or Schererville. An example is the Oak-Savannah Trail, which would run along Main Street connecting Griffith to the Prairie-Duneland Trail that veers northeast to Chesterton. But the Oak-Savannah has three gaps that are each at least a mile long.

In some cases, the bike path gaps represent projects for which local communities ran short of funding. Dan Gardner, deputy director for the Northwestern Indiana Regional Planning Commission, said his agency would like to see a trail developed along the flood-control levees of the Little Calumet River, which might ultimately connect to a planned Grand Calumet River trail that follows the curve of the lake.

"We're struggling for money, especially at the state level," he said. "We've been working on this for 20 years. After the pyramids, it might be the longest construction project in history."
**CASH POSITION - JANUARY 1, 2001**

| CHECKING ACCOUNT | | |
|------------------|------------------|
| LAND ACQUISITION | 541,068.11 |
| GENERAL FUND | 45,902.53 |
| TAX FUND | 0.00 |
| INVESTMENTS | 2,556,730.36 |
| ESCROW ACCOUNT INTEREST | 21,478.77 |
| **TOTAL** | **3,238,775.65** |

**RECEIPTS - JANUARY 1, 2001 - DECEMBER 31, 2001**

| | | |
|------------------|------------------|
| LEASE RENTS | 50,715.24 |
| INTEREST INCOME FROM CHECKING & CALUMET BANK | 68,611.27 |
| LAND ACQUISITION | 1,875,383.13 |
| ESCROW ACCOUNT INTEREST (YEAR TO DATE) | 314.66 |
| MISC INCOME | 499,043.93 |
| ANERTECH | 16,746.91 |
| EMERSON DAILY | 100.00 |
| MERIDIAN TITLE | 406.99 |
| MERIDIAN TITLE | 495.16 |
| TICOR | 549.00 |
| CALUMET BANK | 167,855.35 |
| LE L.MONEY BANK ONE | 12,931.42 |
| MARINA BOND FUND | 20,020.00 |
| L. C. AUDITOR | 675.00 |
| TOWN OF HIGHLAND | 239,272.00 |
| INTEREST FROM ESCROW CERTIFICATE DUE 10/1/01 | 118,677.83 |
| INTEREST FROM ESCROW CHECKING(SPE 5/1/01) | 13,515.86 |
| INCREASED REIMBURSEMENT RE: TELEPHONE CHARGES | 1,977.38 |
| PROCEEDS FROM VOIDED CHECKS | 23,626.00 |
| **TOTAL RECEIPTS** | **2,077,733.74** |

**DISBURSEMENTS - JANUARY 1, 2001 - DECEMBER 31, 2001**

| | | |
|------------------|------------------|
| ADMINISTRATIVE EXPENSES PAID IN 2001 | 179,794.72 |
| LEGAL SERVICES | 7,350.00 |
| TRAVEL & MEALS | 120,650.45 |
| PRINTING & ADVERTISING | 2,437.78 |
| BONDS & INSURANCE | 5,642.83 |
| TELEPHONE EXPENSE | 6,826.84 |
| MEETING EXPENSE | 5,151.82 |
| LAND ACQUISITION | 63,046.70 |
| APPRAISAL SERVICES | 130,050.00 |
| LEGAL SERVICES | 7,914.46 |
| TRAVEL & MEALS | 4,737.04 |
| PRINTING & ADVERTISING | 2,437.78 |
| BONDS & INSURANCE | 5,642.83 |
| TELEPHONE EXPENSE | 6,826.84 |
| MEETING EXPENSE | 5,151.82 |
| TAXES | 18,250.00 |
| PROPERTY & STRUCTURE INSURANCE | 3,114.53 |
| UTILITY RELOCATION SERVICES | 8,651.50 |
| LAND CAPITAL IMPROVEMENT | 97,564.45 |
| STRUCTURAL CAPITAL IMPROVEMENTS | 134,977.75 |
| PURCHASE CERTIFICATE CALUMET BANK | 2,963.70 |
| PURCHASE MONEY MARKET BANK ONE | 21,500.00 |
| PURCHASE MONEY MARKET BANK ONE | 293,040.41 |
| PURCHASE MONEY MARKET BANK ONE | 162,859.25 |
| PURCHASE MONEY MARKET BANK ONE | 12,931.42 |
| DEPOSIT INTO BANKONE MONEY MARKET | 1,500.00 |
| PURCHASE MONEY MARKET FIRST NATIONAL | 46,000.00 |
| TOTAL DISBURSEMENTS | 2,322,467.56 |

**CASH POSITION - DECEMBER 31, 2001**

| CHECKING ACCOUNT | | |
|------------------|------------------|
| LAND ACQUISITION | 14,521.85 |
| GENERAL FUND | 175,753.88 |
| TAX FUND | 172,164.60 |

| INVESTMENTS | | |
|------------------|------------------|
| FIRST NATIONAL BANK | 700,000.00 |
| FIRST NATIONAL BANK | 70,000.00 |
| FIRST NATIONAL BANK | 60,000.00 |
| BANK ONE | 157,495.39 |
| BANK ONE | 140,749.63 |
| BANK ONE | 22,556.52 |
| BANK ONE | 386,869.56 |
| **TOTAL INVESTMENTS** | **1,599,599.10** |

<p>| ESCROW ACCOUNT INTEREST | 100.00 |
| <strong>TOTAL</strong> | <strong>1,716,753.40</strong> |</p>
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**TOTAL** 48,638.31
WORK STUDY SESSION
ENGINEERING COMMITTEE
FEBRUARY 7, 2002

Bob Huffman, Committee Chairman

1. A meeting was held with the COE on February 1, 2002 to review the V.E. proposals submitted by the LCRBDC.
   - Refer to the handout
2. Outstanding issues not resolved with the COE as submitted to them on January 14, 2002.
   - Received COE responses on February 7, 2002
   - Need to complete review, assign follow-up tasks, and have appropriate meetings to resolve.
3. INDOT request for LCRBDC review of their plans for upcoming construction on I-80/94 from west of the Illinois State line to Clay Street. (Response letter attached)
   - We requested information on their design to address environmental runoff.
   - We requested no drainage changes for flow going to our culverts or sluice gates.
   - We wanted assurance that at no time would our line of protection be degraded.
January 31, 2002

Mr. Ronald E. Webb
Hanson Professional Services Inc.
3125 Dandy Trail, Suite 100
Indianapolis, Indiana 46214-1402

Dear Mr. Webb:

Thank you for submitting us information regarding your plans with INDOT for improving the Borman Expressway from the Illinois state line past Clay Street in Indiana. As Executive Director for the Little Calumet River Basin Development Commission (LCRBDC), I have enclosed some information to familiarize you with the Little Calumet River Flood Control/Recreation project. We have been working with the Army Corps of Engineers (COE) since 1986. We are the local sponsor who has the responsibility to purchase lands, easements, rights-of-way; accomplish utility relocations required; accomplish any highway/bridge modifications needed for the project; to provide 5% cash contribution of the total construction cost. In addition, we are required to assume responsibility for operations and maintenance of the flood control project upon its completion. The Corps has the responsibility to provide design and oversee construction of the project. Currently, we have substantially completed the construction from Cline Avenue eastward to I-65. The construction from Cline Avenue to the Illinois state line is scheduled to start in the fall of 2003 and be completed in the fall of 2010 based upon state funding. This new construction will start at Cline Avenue and work westward to the state line in a series of six (6) contracts and will also include complete rehabilitation of a series of existing pump stations along the river.

We would ask that you coordinate all engineering with the Chicago Army Corps of Engineers through their project manager:

Imad Samara, Project Manager
U.S. Army Corps of Engineers
111 N. Canal Street
Chicago, Illinois 60606-7206
Phone 1/312-353-6400 Ext. 1809
Fax # 1/312-353-4256
Email: imad.samara@usace.army.mil
In a very general response we have, concerns east of Cline Avenue at a series of interchanges, or overpasses, where we have already completed our line of protection and need to assure that at no time during construction will you ever degrade this construction to any lower elevation, or interrupt drainage flow to any of the culverts or sluice gates. It may also be necessary to coordinate with the COE field personnel to assure that when you have completed construction for the Borman Expressway, we could participate in the inspections to assure that the flood protection system is in at least the same condition as when you entered onto the sites.

Grant Street and Broadway Street interchanges are both tied into our system, and we currently have levees tied into Harrison Street, Georgia Street (as well as the new culverts installed under the Borman east of Georgia Street), and Martin Luther King Drive. There may be other impacts along your right-of-way with drainage issues that will need hydrology coordination with the COE.

We also have a local concern regarding drainage runoff from the highway and the quality of this water that would include petroleum products. We have landscaped and coordinated mitigation enhancements with the IDNR and IDEM to encourage wildlife and wetland restoration in adjacent areas to your right-of-way and we are concerned what design and precautions will be done to prevent environmental contamination throughout our project area. One particular concern is the potential impact to the Carlson-Oxbow Park from runoff. This park is a joint Federal/state/local effort and unacceptable runoff would severely impact the natural features and wetlands park. We need to know your particular design details that addresses this concern. The particular person raising some of these concerns is one of the Commission board members, Curt Vosti, who is also the Hammond Parks Administrator – the managing agency of the park. We look forward to a response to our concerns.

If we may be of any further assistance, or answer any questions, please contact myself or Jim Pokrajac at 219/763-0696.

Sincerely,

Dan Gardner
Executive Director

/sjm
encl.
ce: Imad Samara, COE
DRAFT

LCRBDC TRAVEL POLICY

The following policies shall be used in authorizing travel by Commissioners and staff of the Little Calumet River Basin Development Commission:

It is understood that final approval of all claims related to travel are subject to approval of the full Commission, as are all claims, per the 1980 State Enabling Act authorizing and empowering this Commission.

A. Definitions

1. Area Business – automobile travel, no overnight stay.
2. Indianapolis Business – for pertinent State legislative, executive or regulatory business; overnight stay not required but may be allowed.
3. Annual Conferences – as authorized by the Commission as a whole.
4. Special Travel – as determined by the Commission as a whole.
5. Emergency Travel – as needed, to be used only in situations where other authorization scenarios can't apply for reasons of time.

B. Authorization to Travel

1. Staff shall be authorized to travel on Area Business as deemed necessary by the Executive Director. Commissioners are authorized to travel on Area Business that is pertinent to their Committee work, as directed by Committee Chairman or Chairwoman.
2. Staff shall be authorized to travel on Indianapolis Business as deemed necessary by the Executive Director. Commissioners are authorized to travel on Indianapolis Business as pertinent to their Committee work, as directed by Committee Chairman or Chairwoman.
3. Staff and Commissioners shall be authorized to travel to Annual Conferences as determined by the Commission as a whole.
4. Staff and Commissioners shall be authorized for Special Travel as determined by the Commission as a whole.
5. Staff and Commissioners shall be authorized for Emergency travel as determined by the Executive Director with approval of two Commission officers.
C. Authorization for Reimbursement

Reimbursable expenses shall be subject state law and to the following guidelines:

1. For area business: State law on mileage reimbursement shall apply to Area Travel directed by Executive Director. Commissioners shall be reimbursed pursuant to state law for Area Travel to only if related to Committee work as directed by Committee Chairman or Chairwoman.

2. For Indianapolis business: State law on mileage shall apply. Other expenses of staff and any Commissioners related to meals, entertainment and/or per diem shall be subject to appropriate state law and Commission policy as enumerated later in this policy or in subsequent policies. Overnight stay allowed upon determination by Executive Director with approval of two Commission Officers.

3. For Annual Conferences: State law and Commission policy as enumerated later in this policy or subsequent policies shall apply.

4. For Special trips and Emergencies: As authorized by state law and the Commission as enumerated later in this policy or subsequent policies.

D. Particular Travel-Related Expenses

Other travel related expenses are to be reimbursed in accordance with state law and Commission policy as enumerated in this and subsequent Commission policies.

1. Registration fees for attendance at events related to authorized travel shall be reimbursed when supported by receipts. If Staff or Commissioner fails without valid reason as determined by the Commission as a whole - to attend an event at which pre-registration fee was paid, that Commissioner or staff shall be liable for any non-refundable portion of the fee.

2. Airline, bus, rail or other travel fees for Authorized Travel will be reimbursed at prevailing “coach” or “tourist” rate when supported by receipts. If pre-paid travel is cancelled without a valid reason – as determined by the Commission as a whole – the staff or Commissioner will be liable for the non-refundable portion of the pre-paid fee.
3. Taxi fees, parking, and/or tolls as related to authorized travel will be reimbursed when supported by receipts.
4. Automobile travel for authorized travel will be reimbursed at the current state-authorized rate.

TRAVEL POLICY
p. 3

5. Rental cars expenses for authorized travel will be reimbursed when supported by receipts upon the approval of the Commission as a whole.
6. Lodging expenses at the Single Occupancy rate for authorized travel will be reimbursed when supported by receipts. Lodging costs shall include room costs, taxes, and necessary, business-related phone charges.
7. Meal expenses when supported by receipts related to authorized travel will be reimbursed at the maximum allowable rate as determined by state law.
8. In addition to allowable meal and travel expenses, Commissioners shall receive a per diem salary as enumerated in applicable State Law.
DEPARTMENT OF THE ARMY
CHICAGO DISTRICT, CORPS OF ENGINEERS
111 NORTH CANAL STREET
CHICAGO, IL 60606-7269

REPLY TO
ATTENTION OF
February 7, 2002
Planning, Program and Project
Management Branch

Mr. Dan Gardner, Director
Little Calumet River Basin Development Commission
6100 Southport Road
Portage, IN 46368

Dear Mr. Gardner:

As noted in your letters dated September 6, 2001 and November 14, 2001, there are a few outstanding issues relating to requests made by the Gary Sanitary District. Responses to the five issues have been completed and are addressed below.

1. Ironwood Circle Pump Station Concerns. (Item 9)
   ◆ What is the level of interior flooding anticipated for various flood events?

The Ironwood Circle pump station is located downstream of the old Penn Central Railroad Embankment, essentially beyond the limits of the original project authorization. No flood control levees have been constructed east of the Penn Central RR, excluding the Marshalltown Levees, which do not provide any protection to the Ironwood Circle. Consequently, the Ironwood Circle Pump Station, and the surrounding area are subject directly to river stages, not interior stages.

Based on the results of the hydraulic modeling of the Little Calumet River for the East Reach Remediation Report, simulated stages for a range of frequency events at Martin Luther King, Drive, is contained in the following table. These stages are representative of the reach between the downstream side of the Penn Central Culverts and Martin Luther King Jr. Drive, including Ironwood Circle for the full range of frequency events.

Table 1 - Maximum River Stages at RM. 29.128

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<tr>
<th>% Chance Exceedance Event</th>
<th>Frequency Event (years)</th>
<th>Maximum Stage Existing Conditions (ft. NGVD)</th>
<th>Maximum Stage Full Project Conditions (ft. NGVD)</th>
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<td>50</td>
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</tr>
<tr>
<td></td>
<td>0.5</td>
<td>200</td>
<td>595.3</td>
</tr>
</tbody>
</table>

1 Hydrologic and Hydraulic modeling based on pre-construction conditions
2 Hydrologic and Hydraulic modeling include full project conditions with Marshalltown Levees
Are electrical controls, access road and adjacent homes to the north above this level?

The elevation of the electrical controls are set at 601.0 feet NGVD, according to the Stage II-4 contract drawings. Access to the pump station via the Levee and Railroad embankment is also set at elevation 601 ft. NGVD. Access from Ironwood Circle is approximately at grade.

Project aerial mapping shows the elevation of Ironwood Circle at around 594 ft NGVD. The elevation of 24th Avenue is between 596.5 and 598 ft. NGVD. Access via Ironwood Circle to the pump station may be possible for events up to the 50-year event. Access for less frequent events is available from the levee/railroad embankment.


See current status on attached Gary Sanitary District Issues, Updated Status dated 7-19-2001. When will this work be scheduled and completed?

The district is waiting for comments from the sponsor on the second submittal of the O&M Manual. This second submittal, which incorporated comments on the Draft O&M Manual was provided to the Commission. To date, no response has been received. In order to facilitate the completion of the manuals, we would like to schedule a meeting to discuss completion of the sponsor review and the finalization of the manuals. It is essential that we complete an O&M manual for the East Reach, since the construction of that section of the project will be completed next summer. We can schedule a meeting on this topic at your earliest convenience.

3. East Reach Remediation

See comment for Item 12a. Please provide the Corps response to the water tightness of structures issue.

Comment 12: Water Stop Conflict with rebar: To further clarify our original response, it is our policy to provide keyed joints with water stops in structures that are built in the line of protection.

Since the East Reach Remediation structures are exposed to relatively low head conditions the full water stoppage capabilities of the water stops are not needed given the presence of the keyway.

So in this case we feel the keyed joint and the notched water stop provide adequate protection from water infiltration. In general the water stops are “notched” by slicing the stop up to the level of the rebar and then the stop is slipped over the rebar. I don’t feel that slicing the water stop every 6 to 12” along its length decreases its effectiveness by much if any in this situation.

Comment 14: Water Tightness around the CMPs entering the inlet and outlet boxes: This comment was originally addressed with the response “Comment noted. No design change is planned at this time.” Primarily the comment was address this way because the comment did not request a specific design change, point to a specific addressable problem, or point out a definite error or omission. It was just a statement that the reviewer thought that water tightness around the CMP would be difficult. So noted. Since the pipe is corrugated I don’t believe there will be a problem with water tightness. Again this is a low head structure, plus it does not pass through our constructed line of protection. Next time around I would suggest that the reviewer provide comments that can be tied to
specific outcomes such as "Water tightness around the CMP will be difficult... please provide a hydrophilic water stop at this location" or even a less specific comment "... additional water infiltration protection is needed." Granted, a seepage path could form right at the bottom of the pipe and the top of the base slab, but if it did I doubt it would be a major leak. I don't see any major problems here.

Please provide the basis for sizing interior pump station.


B. Per the referenced enclosure, the Hydraulic Engineering section performed a Period of Record (POR) analysis of the Marshalltown interior drainage model, as well as synthetic events (10 year and 100 year) in July 1999. The drainage model utilized information provided by Greeley and Hansen (elevation-storage), as well as precipitation and river stage data previously developed for the project modeling. Conservative assumptions were made for the modeling runs. Results of the runs are contained in the following table.

Table 2 - Interior Stages for Marshalltown Levee

<table>
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<th>Synthetic Event</th>
<th>Scenario Number</th>
<th>Max Interior Elevation (ft NGVD)</th>
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<td>10 year</td>
<td>1</td>
<td>589.7</td>
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<tr>
<td>100 year</td>
<td>1</td>
<td>590.1</td>
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<tr>
<td>10 year</td>
<td>2</td>
<td>592.1</td>
</tr>
<tr>
<td>100 year</td>
<td>2</td>
<td>593.6</td>
</tr>
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*A description of the model parameters utilized in each of the two scenarios is included in enclosure 1.*

C. Based on the simulations, even under the highly exaggerated conditions of scenario 2 (no runoff losses, 15 time greater seepage, and higher exterior river stages), the interior elevations do not exceed the critical elevations 593.8 (for the GSD Marshalltown Pump Station) or 594.0 (first floor elevations in Marshalltown). However, because it was anticipated that ponded water in the lateral drainage ditches would be a nuisance, minimal pumping of 1,000 gpm was recommended so that the ditches could be drawn down.

Please provide date when the pump station contract will be let.

The contract for the pump station will be awarded in September 2002.

Regarding comment for Item 12c, would you please provide the LCRBDC with an additional copy of the topographic map with the 200-year flood contour?

The requested mapping is provided.
4. Stage III Remediation: Please provide and updated status and anticipated bid date for:
- Field tile pump station and resolution of flooding around gatewell between Chase and Grant Street
- New pump station at the I-wall west of Grant Street
- Gatewell/I-wall modifications east of Grant Street to accommodate the Johnson Street Pump Station Discharge.

The issues raised in this item were incorporated in the Design and Plans and Specifications for the Stage III Drainage Remediation contract. The Commission has just completed review of the final plans and specifications, and comments have been received. It is anticipated that the contract will be awarded for this work in September 2002.

5. Other Issues
- Regarding current status and comment for Item 14b, when will copies of correspondence to/from USEPA/IDEM regarding Gary project be provided?

Correspondence relating to the Little Calumet River Project through the design phases to regulatory agencies was obtained from the Planning Division files. The correspondence includes standard review letters for compliance with NEPA, as well as some correspondence related to permits for construction. See enclosure 2.

- Regarding current status and comment 14cc, when will documentation requested be received?

Copies of the Environmental Protection Plans and Notice of Intent (NOI) for each of the construction projects in Gary was duplicated and is provided here. The Environmental Protection Plans (EPP) detailed the measures that contractors stated they would take to minimize impacts on water quality due to soil erosion. The Contractor's Quality Control personnel were responsible for implementing all features of the EPP. See enclosure 3.

If you have any additional questions please contact me at 312-353-6400 ext. 1809.

Sincerely,

[Signature]

Imad Samara
Project Manager

Enclosures
February 7, 2002

Dear Mr. Gardner:

This is a response to your letter dated January 14, 2002. Your letter would indicate, to someone who is not involved in the day-to-day business of this project, that there is a lack of communications between the Little Calumet River Basin Development Commission (LCRBDC) and the Corps of Engineers (COE). I do not feel that this is entirely true. I feel that there has been a steady and open communication flow between the LCRBDC representatives and this office, at least until I received your letter. I attend your Commissioner meetings regularly and was recently present at four consecutive monthly meetings until missing the January 2002 meeting. At these meetings I never got a sense that the Commissioner’s felt a strong frustration with the COE handling of the project. I meet with you and your staff regularly, and I talk to them on the phone often. In addition, Mr. Pokrajac is on the phone with either my team or myself frequently. Your letter also illustrates the Commissioner’s frustration in getting resolutions to project issues. It distress me to hear this since your letter mentions several issues that have already been addressed by the COE and, in my opinion, some issues that are still unresolved because you either have not agreed with or did not like the resolution the COE provided.

As project manager I have to take all the blame for your frustration. It was my mistake to assume that a verbal response to an issue was satisfactory. In the future issues will be resolved in writing with a letter of explanation. Let me assure you that the COE team will work hard to resolve all outstanding issues. If a resolution cannot be obtained between us then I will bring it up to the Project Review Board (PRB) for resolution. I distributed your letter to the team and along with myself we are providing responses to your comments and concerns.

Mr. Ray Coughenour and myself will be coming to your office on February 7, 2002. We will discuss these responses with you and anyone you feel need to be at the meeting. If you have any questions please contact me at 312-353-6400 ext. 1809.

Sincerely,

Imad N. Samara
Project Manager
1. Utility relocation coordination

- This office mailed a letter on January 16, 2002 to Mr. James E. Pokrajac with the available data for utilities relocations in Stage VI, Phases 1 and 2. The removal of the Buckeye Pipe Line Company 8-inch pipeline east of the Kennedy Avenue is the only utility work needed before project construction can begin. Mr. William R. Serra, from the Buckeye Pipeline Company informed us that the estimate is ready and on the way to our office. Our Cost Estimating engineers will review this estimate and upon completion of their review the estimate will be forwarded to your office. Similarly, we are still waiting for the Ameritech's review of a cable relocation cost ($1,298.45), that was provided to us on 09/19/2000. NIES Engineering Inc., on behalf of the City of Hammond Water Department, provided us with plan sheets depicting the existing water main locations for the Stage VI project. We are still waiting for a response from NIPSCO. Mr. Pokrajac has offered to send a generic letter to all the utility owners in the project area. The letter will contain general information about the project along with an explanation of the procedures that have to be followed before construction work can begin. Extensive utility relocation coordination was done for Stage V-2. The documentation of this coordination was forwarded to your office, following our review of it, on February 2, 2001. On August 20, 2001 we sent you a NIPSCO plan and cost estimates for relocations of electric and gas distribution systems for Stage V-2. Rani Engineering managed stage VI, Phase 2 and I have sent to Mr. Pokrajac all the correspondence that I have received from Rani.

2. Stage V Phase 2 Pipeline elevation and location:

- Tim Kroll from our Civil Design Section (LRC-ED-DC) wrote the original Scope of Work (SOW) for the utility survey. He delivered it to the project manager Imad Samara (PP-PM) on 24 Jan 2001 and Mr. Samara sent it on to Jim Pokrajac for implementation. The SOW contained two specific primary directions. First, the surveyor was to expose the utility lines, using non-destructive means, for the purposes of his location survey. Second, to use the survey points that were specifically requested. These points were at the location of the intersections of the centerline of the two lines-of-protection (on each side of the river) with each of the utility pipelines.

Great Lakes Engineering (GLE) performed the survey. However, per Jim Pokrajac's instructions, GLE did not follow the criteria outlined in our SOW. The results of the survey were given to the COE on 17 Sept 2001. Tim Kroll reviewed the results and determined that they did not meet the SOW criteria so he contacted Jim Pokrajac on 20 Sept 2001 to discuss GLE's results. Mr. Pokrajac informed Mr. Kroll that GLE had acted per Mr. Pokrajac's instructions. Mr. Pokrajac stated to Mr. Kroll that he was concerned about the liability associated with directing the surveyor's subcontractor to excavate through the middle of the existing river embankments, through which the centerlines of the new lines of protections will run. Mr. Pokrajac instructed GLE to move off the existing embankments, therefore GLE provided elevations for the pipelines at locations far from the points that were requested; in many cases the elevations received were as far as 30' away from the location that the SOW required.
The location of the survey points were import for obtaining the required vertical information since the pipelines do not maintain a uniform slope, but instead "dip" beneath the Little Cal River. Therefore, the vertical data points obtained by the surveyor were not useful in checking the accuracy of the previous survey data due to the unknown and changing elevation of the pipelines. They certainly could not be cited as a final authority on the positions of those utility lines. Due to Mr. Pokrajac's change most of the survey data obtained was unusable. However, the horizontal information provided by the surveyor should be acceptable since a "dip" in the pipeline should not affect these points. The COE asked that the Surveyor go back out and obtain data that would be useful, since the first survey data was not usable. GLE was directed to obtain utility pipeline survey shots at a uniform distance on both sides of the staked centerline that ran through the existing embankments. In this manner, locations at the landside and riverside toes of the existing earthen embankments were obtained, and excavation of the existing earthen embankment was avoided.

The extra costs associated with the second survey were not the result of actions by the COE but by the action of Mr. Pokrajac and GLE. Most of the subsequent problems and extra survey costs would have been avoided if Mr. Pokrajac or GLE had thought to contact the COE prior to discarding the SOW that the COE had developed to obtain the required information. The LCRBDC is incorrect in asserting that LRC-ED-DC changed the SOW and caused additional expenses to be incurred. The LCRBDC passed up an opportunity to revise the SOW in advance of the work being performed, and then subsequently directed the surveyor to ignore the SOW without any coordination with LRC-ED-DC. By doing this, the LCRBDC failed to acquire the survey data necessary to satisfy the various Utility Company's concerns. To meet these concerns, subsequent survey data was requested, and the LCRBDC agreed to carry out this work.

- In regards to the Philips Pipeline relocation the COE asked you in a letter dated May 19, 2000, to go ahead and request the needed Philips design analysis and action plan for the directional drilling. Directional drilling has been determined to be preferable and substantially safer method of relocation. We informed you that upon final submittal of the relocation plan and approval of the directional method of drilling we would render decision on the credit approval.

3. **IndOT project at Indianapolis Blvd in the Tri-State area:**
   - Information provided to you January 18, 2002.

4. **Engineering review of plans and specifications**
   - In several recent sets of plans and specifications, the LCRBDC was given very incomplete sets of drawings to be reviewed for comments: It is assumed that the Local Sponsors do not want to wait for the final set submittal before making comments, therefore they will receive sets that are not complete to review since sets are generally submitted at the 35%, 50%, 100% completion level and then a Final set is submitted. The 35% set is reviewed during a design meeting with the design A/E or the COE design team. The 35% set, as the name should imply, is very minimal and shows only major elements and in the case of A/E we get a chance to make sure that their basic drawing
presentation meets our CADD standards and that the project is on the right track. At the 50% level all the major elements should be finalized, dimensioned and designed. However, it is not expected that all the details have been worked out or shown on the drawings. The specifications will be a first draft or in outline format. At this point the main thrust of the review is to make sure everybody is in agreement on the project features. At times sheets are inserted into the set with little or no information on them as place holders for sheet accounting and also to let the review know that the designer is planning to do to avoid comments. The 100% set should be the finished project minus any outstanding issues that have not been resolved due to the indecision or the lack of action by people making decisions outside of the design team. By the time the final set is submitted all these issues should be worked out and the set is ready for advertisement.

- **These include Stage VII as well as Stage VI Phase 2:** Since the Stage VII 100% set has not been submitted yet its no wonder you haven’t seen a complete set yet. The Stage VI –2 was unique in two respects. First, it was not covered in the FDM, the only design document given to the A/E to work from was memorandum from our Hydraulics Branch outlining project features. Secondly, it was decided that since this was a small reach that a 35% “mid” design meeting would not be necessary. In hindsight this was a mistake given the first point. The COE sent back the first 50% submittal as unacceptable. The A/E sent in a second initial submittal, which was reviewed. Many comments were received from the Local Sponsor (LS) many of which the A/E could not answer because of the lack of general project information in the area of Stage VI-2 and a bust between the LS and COE on what should have been in the A/E’s SOW. During the review meeting we tried to address as many LS issues as possible even at the expense of in-house review issues. However as happens at many of these meeting the LS representative gets on a topic and won’t let go thus taking precious time away from other issues from both the LS and in-house team. For Stage VI-2 meeting it was the Sandalwood Subdivision and the Cline Ave. trail crossing. Therefore, when the 100% rolled around some of the LS issues were not incorporated because they were never resolved. Also, some features, such as the borrow site and the recreation trail path were not detailed in the 100% because the COE told the A/E to go no further since we could not get a timely resolution to these issues and since this project will not be built for a number of years we felt that the chance of things changing was great and we did not want to waste the effort now.

- **When we addressed concerns regarding this design, many of these issues were not addressed in the 100% plans and specifications for final review:** The only issues not addressed in the 100% set were those that the A/E could not get a clear and final resolution on. Since the bulk of the Stage VI-2 review meeting was taken up talking about Sandalwood and the Cline Ave. crossing the LS representative should have been aware that not all the LS were discussed and resolved. In the future, if at a meeting, or any time, the LS does not get a chance to discuss a particular issue or the issue is left unresolved I suggest that the LS submit a “Position Paper” on the issue clearly stating what the issue is, its impacts, and more importantly what the LS would like to see as an outcome or what they see as the answer. It is very hard for in-house designers and technical coordinators to understand what it is the LS hoping to achieve from a one or two line bullet comment from a product review. Nobody consciously ignores LS issues, but sometimes they get lost in the shuffle when trying to finish a product with in budget and schedule. If we can’t understand or answer it after the first go around then its likely to be shoved aside until all other issues are addressed and incorporated and we can get back to it. We need to work in house to have a “Champion” who follows LS issues so they don’t get lost in the shuffle.
We feel that we should not be given any plans and specifications until the set is complete in its entirety in order that, not only the LCRBDC but local communities and utilities would have the opportunity to accurately give you their input: This is a rehash of your first comment under this topic. To add to the response above, we have to get the local communities involved before the design is complete to avoid having a finish product that nobody wants. It makes no sense to finish the set and then go to the local communities for input. It should be an ongoing process. For utilities, many times we can't finish the set until we get input from them. As with the community input, we don't want to complete a set only to find that some utility won't let us build it because we waited to a finish product before we got their input.

Important issues have been answered by the words “discuss” or discuss with Corps”, and that is the last we have heard of the issue until we raise the same issue at the next plan review: Not true, we always give the LS a chance to discuss their issues at the project design meetings. We always ask the LS for input for developing the agenda, however we rarely get a response. For the Stage VI-2 we had a review meeting following the 50% submittal to cover the issues even if the LS don’t seem to remember attending the meeting, they did sign in on the attendance sheet. Please see the response above for more on this.

Unresponsiveness results in a 100% set of plans which may need significant revision to become a final set of plans when all the comments are finally addressed and resolved: Unresponsiveness by who? Please see above discussion.

Unresponsiveness results in added project cost because comments are not addressed at the time when changes in the plans would be easiest: Again, not always true. First, we don't pay A/E extra money to get it right. We expect them to incorporate every comment within reason as long as we give them direction in a reasonable amount of time. However, many issues can't be resolved with in the A/E's contract schedule. Thus they have to be table to a later date. In any event more follow through by both the COE and the LS would help alleviate some of these problems.

5. Remaining East Reach Recreation features:

- This item has been discussed with Mr. Jim Pokrajac numerous times. The Project Manager (PM) has informed Mr. Pokrajac that all recreation items that still need to be completed in the east reach will be included in the second and final recreation contract. The PM also informed Mr. Pokrajac that the reasons for dropping the east reach recreation items from the Stage III Remediation Contract and postponing them is that the recreation design and construction cost is funded 50% Federal and 50% Non-Federal. The Commission is faced with a funding shortage. The Non-Federal funding is better spent on acquiring lands in the west reach than on east reach recreation features. Other priorities on this project, such as South Grant Pump Station and the Stage III Remediation design work, prevent us from pursuing a feasibility study to determine the most cost effective way to cross Grant Street and Cline Avenue. During this fiscal year we will work on completing this feasibility study. These road crossings are the only remaining recreation features in the east reach. All other recreation features were completed in the first recreation contract. Scheduling this work is dependant on the availability of Local Sponsor funding. This work is planned to be ready in FY 06.
6. Project Borrow Sites

- During the April 2001 Stage VI-2 Design review meeting the location of the borrow site along with many other Local Sponsor issues were discussed. During the borrow site discussions the Project Manager (PM) indicated that to eliminate the Clark and Chase Borrow site from use in the project all you had to do was send a letter to him informing him that the Commission did not want the Clark & Chase borrow site used. The PM assumed that a response to your letter was not necessary since he requested you to send your letter in the first place. Therefore, to clear this up, your request not to use the Clark and Chase borrow site has been accepted. Also, as you know the only contract left in the east reach is the Burr Street Betterment Levee Phase II. The clay quantity for that contract can be handled by allowing the contractor to furnish the clay himself.

7. Project Concerns (On Going)

- **Creditable Cost Versus project cost**
  
  - The PM is not aware that a trend has developed were by various tasks are classified as creditable rather than as project costs. Generally, only utility relocation tasks and survey tasks for real estate and land acquisition are creditable. The PM does not know of any other task other than a recent request by the Gary Sanitary District asking that fencing be provided around the pump station area. The request came in after the pump station contract was complete. For the sake of simplicity, and cost savings, the LCRBDC agreed to take on and administer a small contract to accomplish this task. At any time the LCRBDC believes that the task they are performing are not in accordance to the Local Cooperation Agreement (LCA), they should make the COE aware of it. Everything should be done in accordance to the LCA that the COE and the LCRBDC signed.

- **Scheduling**
  
  - The LCA states that the schedule should correspond to Federal spending and the Non-Federal spending should match the Federal spending. My schedule is based on the Office of Management and Budget (OMB) out years ceiling for the project. So to answer your question, yes the schedule does coordinate with funding, Federal Funding.
• The original time allowed for product review was 3 weeks. Over the past several years this has slipped to 5 to 6 weeks. It seems to the Project Manager (PM) that the Local Sponsors (LS) ask for additional time on almost every review they undertake. The COE has always tried to accommodate the Local Sponsor’s request for additional review time and in every case that the LS requested it they have got it. Occasionally, however, we need to meet a tight deadline, especially when we are awarding a construction contracts, so we may ask for the LS to provide their review quickly.

• The last 2 bullets in your letter are addressed in the following paragraph. We complete projects such as Stage VII and Stage VIII so for in advance of the anticipated construction period to give you all the time you need to complete the real estate acquisition and the utility coordination. Just as you said in your letter “Adequate time should be included for real estate acquisition and utility relocation”. As we all know the acquisition and utility relocation activities require a lot of time. We learned this from completing these tasks in the east reach portion of the project. I reiterate that the designs need to be completed in sufficient time so that we can complete these hard and time consuming tasks especially the task of coordinating with local entities and landowners.

1. Outstanding technical issues

   • Quarterly Technical Review Meetings

   • I remember when I became the project manager I started the quarterly technical meetings to resolve issues that were brought up in the BCOE review process. At the start there were a lot of issues that needed to be resolved and we did resolve most of them such as the recreation trail placement, gate wells for pipes under 36” and others. The problem that I feel we ran into that some of these issues were more philosophical differences than technical differences. Such one is the overflow protection and the decorative concrete finish and more. I’m a great advocate of holding technical meetings. But, last year FY 2001 our effort was concentrated on supporting the local sponsor in getting the local funding that is needed. I did attend quarterly meetings with the local sponsor and congressman Viscloskey’s office. That effort took away from the technical meetings. What I would like to ask for is a list of technical issues that needs to be resolved so that we can start the technical meetings again.
• The project manager is the conduit for the Commission to the COE, when issues are brought up the project manager will determine the personal that should attend. I do know that Mr. Pokrajac is constantly in contact with the PDT members when he needs a clarification to some items. In addition he contacts the area office in Griffith for construction updates such as field changes and local coordination. When a request is received to resolve a concern I bring the personal necessary to discuss and resolve these concerns. As I said above if the commission provides a list of technical concerns I will work on setting up the first technical meeting this FY.

• **Sheet Piling Issues**

  • **Potential damage to adjacent property during sheet pile driving:** This potential problem has only been an issue since we got into the Stage 7 and 8 project areas. These projects are still under design so the final resolution to this issue is still open. This issue has been discussed with the Local Sponsor’s representatives at several design review meetings for the two projects. Based, in part, on input from the Local Sponsor’s representatives language is being developed by the Stage 7 A/E for incorporation into their 100% BCQE submittal. It was decided at the last Stage 7 meeting that the A/E would incorporate language in the 100% BCQE submittal specifications requiring the contractor to do a condition survey of adjacent properties and also language dealing with protection of houses in the driving area. When the set is submitted for BCQE the Local Sponsor is encouraged to review the document and provide value added comments.

  • **Useful life for sheet pile where it is not encased in concrete and subject to a corrosive condition, such as the first few feet of soil:** This issue has been raised several times since Stage 4-1 South construction constraints required the use of a sheet pile wall instead of our standard concrete I-wall. We have addressed the corrosion issue every time it has been raised and we will repeat our response here again. We feel corrosion will not be a problem and the useful life of the piling is the life of the project. We don’t believe that the piling is being exposed to an overly corrosive environment. Nothing has been presented to us, that shows conclusively that the Little Calumet River environment is abnormally corrosive to sheet pile. Further testing of the soil would be a Local Sponsor expense. Sam Doak’s 12 September 2000 memorandum covering Stage 7 sheet pile issues, which has been transmitted previously to the Local Sponsor’s representative, addresses corrosion of sheet piling in the first few feet of soil. For stages 7 & 8 loss of capacity of the sheet pile section due to alleged possible corrosion is not a problem due to the non-structural nature of the cut off wall. For Stage 4-1 south we could not build our standard concrete I-Wall due to excavation limitations in the area so the sheet pile was driven in undisturbed soil. As Mr. Doak’s memo points out corrosion in the first several feet of undisturbed soil is virtually non-existent due to the rapid loss of oxygen. I have discussed SSP corrosion with both the District's Design Branch Chief and the Chief of Engineering
Division, who has taught sheet pile design courses for the COE in the past. Neither Chief feels that corrosion, in general, is an issue for sheet pile on the Little Calumet River project. The real issue here is why the Local Sponsor feels that corrosion is a problem. If they have specific information or documented cases of corrosion of SSP in this area then we would gladly review the information.

- **Overflow Section Issue:** Since the terrain adjacent to the levees provides few natural tie-backs to high ground, it appears that any overflow of the overflow section which causes it to wash out will result in widespread flooding on the landside of the levee. Note: This is a technical issue LCRBDC has had with the COE dating back to 1997. Although we have discussed this a number of times at our Technical Review meetings and received a number of responses, the COE has not actually said there is no concern for failure at these locations without armoring. Do other COE Districts use this type of overflow without armoring or do they use overflow sections at all? What is the risk of armoring an overflow section? Are unarmored overflow sections likely to wash-out any time any significant amount of water overflow?

**Hydraulic Engineering Response**

As noted in the comment, this has been an ongoing issue since 1997. In actuality, ED-HH has addressed this issue in a number of memoranda dating back to 1994. The most recent memoranda dated 23 July 1997 specifically addresses the issues of armoring, including the risks involved, and references current Corps of Engineers guidance related to the design of overflow sections.

As noted in the 1997 memorandum, Engineering Technical Letter (ETL) 1110-2-299 provides general guidance on designing levees for events that exceed the design level of protection. For the Little Calumet River levees, which are designed to protect from riverine flooding from a 200-year event, exceedance events would fall in the range of even less frequent events such as the Standard Project Flood (SPF). The SPF has been estimated to have a recurrence interval of between 500 and 1000 years (SPF Guidance). A 500-year event has a 0.2 percent chance of occurring in any one year, and an 18 percent chance of occurring once in 100 years. (ETL 1110-2-299). Consequently, events where flow will actually begin to spill over the designed overflow sections are quite rare.

Per ETL 1110-2-2999, the design goals for overtopping are as follows: first, to select the least hazardous location for initial inundation of the interior. Areas typically selected for overtopping include: golf courses, oxbow lakes, ponding areas, less developed areas and/or a downstream reach. The overflow segments in the Little Calumet River levees are typically located parks, golf courses and generally undeveloped areas. Per the guidance, a good overtopping design can force overtopping in a selected reach with the following benefits:
- Control the initial overtopping to reduce the impact of sudden overtopping failure;
- Provides an initial cushion of water in interior areas to lessen overtopping impacts in other levee reaches;
- Reduces the chance of overtopping in less desirable areas;
- Reduce project maintenance and replacement costs.
The designed overflow sections on the Little Calumet River project are long reaches of the earthen levee with a crown elevation approximately 0.5 feet below the top of the adjacent levee segments. Locations and lengths are listed in table A-17 of FDM 5, and reproduced below in the Table 1.

Table 1, Overflow Locations and Crest Elevations

<table>
<thead>
<tr>
<th>Overflow Location</th>
<th>River Mile</th>
<th>Levee Crest Elevation (ft NGVD)</th>
<th>Overflow Elevation (ft NGVD)</th>
<th>Length of Overflow Section (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riverside Park</td>
<td>18.102</td>
<td>601.0</td>
<td>600.5</td>
<td>1,450</td>
</tr>
<tr>
<td>Wicker Park CC</td>
<td>19.239</td>
<td>604.2</td>
<td>603.7</td>
<td>1,400</td>
</tr>
<tr>
<td>Woodmar CC</td>
<td>19.239</td>
<td>604.2</td>
<td>603.7</td>
<td>1,100</td>
</tr>
<tr>
<td>Kennedy/Cline N</td>
<td>20.610</td>
<td>603.4</td>
<td>602.9</td>
<td>1,430</td>
</tr>
<tr>
<td>Kennedy/Cline S</td>
<td>21.630</td>
<td>603.4</td>
<td>602.9</td>
<td>1,600</td>
</tr>
<tr>
<td>Lake Etta</td>
<td>24.030</td>
<td>602.3</td>
<td>601.6</td>
<td>1,540</td>
</tr>
<tr>
<td>Gleason Park</td>
<td>26.580</td>
<td>602.3</td>
<td>601.8</td>
<td>1,410</td>
</tr>
</tbody>
</table>

Once the water levels in the Little Calumet River reach the elevation of the overflow section, and a sufficient hydraulic head has developed, then flow will start to overtop the levee. The overflow section will behave like a weir under these conditions. As such, computations were performed to develop flow and velocity over the weir for a 1,100-foot overflow section (minimum section) and a 1,500-foot overflow section. Those computations are contained in Table 2.

Table 2 – Typical Overflow Section Crown Flows and Velocities

<table>
<thead>
<tr>
<th>Overflow Depth (feet)</th>
<th>Flow (cfs)</th>
<th>Velocity (fps)</th>
<th>Flow (cfs)</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,100 Foot Overflow</td>
<td>1,500 Foot Overflow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>94</td>
<td>0.9</td>
<td>128</td>
<td>0.9</td>
</tr>
<tr>
<td>0.2</td>
<td>266</td>
<td>1.2</td>
<td>362</td>
<td>1.2</td>
</tr>
<tr>
<td>0.3</td>
<td>488</td>
<td>1.5</td>
<td>665</td>
<td>1.5</td>
</tr>
<tr>
<td>0.4</td>
<td>751</td>
<td>1.7</td>
<td>1024</td>
<td>1.7</td>
</tr>
<tr>
<td>0.5</td>
<td>1050</td>
<td>1.9</td>
<td>1432</td>
<td>1.9</td>
</tr>
</tbody>
</table>

Flow velocities will increase as the flow extends down the interior slope of the overflow section based on the slope of the embankment. The velocities expected over the crown of the embankment should not cause significant erosion. High velocities on the order of 7 fps or more can be anticipated at the toe of the structure. It is these erosive velocities that can start to erode away at the toe of the embankment, and provide a mechanism for embankment failure. Consequently, in the event that the overflow sections are overtopped, there is a potential for embankment failure. Maintenance of well-established vegetative cover (i.e. grasses) on the interior slope and toe of the levee can provide some resistance to the erosive forces. It is noted in Soil and Water Conservation Engineering, Appendix L, that for vegetated channels with permanent turf reinforcement matting, the permissible flow velocity shall not exceed 8 fps.
Armoring of an overflow could serve to protect the crown of the section and the interior slope from erosion if the overtopping flow had sufficient velocity to erode away the grass and gravel surface. However, the inclusion of armoring on an overflow section reduces the potential for failure at these carefully selected locations. This then increases the risk that an embankment will overtop or fail at less desirable, i.e. dense residential areas. The ETL does not recommend armoring of the overflows.

In the flood warning and response plan, warning plans were developed to include evacuation of the interior once flow began to exceed the overflow structures. An analysis of overtopping scenarios by ED-HH was documented in a memorandum dated 17 April 1995. In the memorandum, an analysis of the mechanisms for overtopping, based on rainfall and river stages, was developed. For this analysis, a 1.46 Ratio of the 200-year, 24 hour storm was used. It should be noted that overflow overtopping locations and elevations was developed based on a 1.44 Ratio of the 200 year storm (FDM 5). Using the 1.46 ratio storm overflow locations and the timing of the overtopping was developed. Table 1 from that memorandum is reproduced below as table 3.

Table 3 – Overtopping Timing for the 1.46 Ratio of the 200-year Design Event

<table>
<thead>
<tr>
<th>Overflow Location</th>
<th>River Mile</th>
<th>Overflow Elevation (ft NGVD)</th>
<th>Time of Overflow (Day/Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois-Indiana State Line</td>
<td>16.043</td>
<td>598.0</td>
<td>Day 1/2300</td>
</tr>
<tr>
<td>Riverside Park</td>
<td>18.102</td>
<td>600.5</td>
<td>Day 2/1900</td>
</tr>
<tr>
<td>West of Hart Ditch/South</td>
<td>19.146</td>
<td>601.6</td>
<td>Day 3/2000</td>
</tr>
<tr>
<td>Lake Etta</td>
<td>24.030</td>
<td>601.6</td>
<td>Day 3/2300</td>
</tr>
</tbody>
</table>

Based on the storm event beginning at 0000 hours on Day 1.

A similar analysis was developed regarding the overtopping associated with a Standard Project Flood (on the order of a 500 to 1000 year storm) in the 17 April 1995 memorandum. Table 2 from that memorandum is reproduced below as Table 4. Also included in the 17 April 1995 memorandum was an analysis of the amount of precipitation required to generate an overflow. Table 3 from that memorandum is reproduced below as Table 5. The timing and rainfall amounts, along with the mapping that shows the area of anticipated inundation due to overtopping were intended to be utilized in the event the project level of protection was exceeded. Evacuation of the interior areas is recommended once flows overtop near the Illinois-Indiana State-Line and are expected to exceed the overflow section at Riverside Park. The 17 April memorandum contains anticipated inundation limits based on the overtopping sequences for the 1.46 Ratio and the SPF.
Table 4 – Overtopping Timing for the Standard Project Flood (SPF)

<table>
<thead>
<tr>
<th>Overflow Location</th>
<th>River Mile</th>
<th>Overflow Elevation (ft NGVD)</th>
<th>Time of Overflow (Day/Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois-Indiana State Line</td>
<td>16.043</td>
<td>598.0</td>
<td>Day 3/1800</td>
</tr>
<tr>
<td>Riverside Park</td>
<td>18.102</td>
<td>600.5</td>
<td>Day 3/1900</td>
</tr>
<tr>
<td>West of Hart Ditch/South</td>
<td>19.146</td>
<td>601.6</td>
<td>Day 3/2000</td>
</tr>
<tr>
<td>Wicker Park GC (south)</td>
<td>19.239</td>
<td>603.7</td>
<td>Day 3/2200</td>
</tr>
<tr>
<td>Woodmar CC (north)</td>
<td>19.239</td>
<td>603.9</td>
<td>Day 4/0000</td>
</tr>
<tr>
<td>Kennedy / Cline Overflow</td>
<td>20.610</td>
<td>602.9</td>
<td>Day 4/0200</td>
</tr>
<tr>
<td>Lake Etta</td>
<td>24.030</td>
<td>601.6</td>
<td>Day 5/0000</td>
</tr>
<tr>
<td>Gleason Park</td>
<td>26.580</td>
<td>601.8</td>
<td>Day 5/1200</td>
</tr>
</tbody>
</table>

Table 5 – Precipitation Values Estimated for Overtopping

<table>
<thead>
<tr>
<th>Overflow Location</th>
<th>Reference Gage</th>
<th>Rainfall (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 Hour Event</td>
<td>6 Hour Event</td>
</tr>
<tr>
<td>Illinois-Indiana State Line</td>
<td>Munster</td>
<td>4.5</td>
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<td>Riverside Park</td>
<td>Munster</td>
<td>6.0</td>
</tr>
<tr>
<td>West of Hart Ditch/South</td>
<td>Munster</td>
<td>7.0</td>
</tr>
<tr>
<td>Hart Ditch North &amp; South</td>
<td>Burr</td>
<td>9.0</td>
</tr>
<tr>
<td>Kennedy Cline Overflow</td>
<td>Burr</td>
<td>7.5</td>
</tr>
<tr>
<td>Lake Etta</td>
<td>Burr</td>
<td>&gt;12.0</td>
</tr>
<tr>
<td>Gleason Park</td>
<td>Burr</td>
<td></td>
</tr>
</tbody>
</table>

Overflow sections were designed in accordance with Corps of Engineers guidance (ETL 1110-2-299) as well as on the availability of open lands suitable for overtopping. Armoring is not recommended because it reduces the functionality of the levee system and puts residential areas at risk. As requested in the comment, we contacted other districts. Per Mr. Pat Foley with the St. Paul District, their practice is the set the height of the levee using the superiority methods recommended in the ETL. Once that minimal level is set where overtopping will occur under specified conditions, then the remainder of the levee freeboard is set at heights above that minimum elevation in order to control the overtopping. They do not armor the overflow sections as the overtopping occurs at levels beyond the level of protection provided by the project. This approach is consistent with the approach utilized here at the District for the Little Calumet River project, and is consistent with current Corps of Engineers guidance.
January 30, 2002

Programs and Project Management

Mr. Dan Gardner, Executive Director
Little Calumet River Basin Development Commission
6100 Southport Road
Portage, Indiana 46368

Dear Mr. Gardner,

As requested in your letter dated 6 December 2001, our Engineering Staff has reviewed the Tentative List of Cost Savings Items reviewed by your Engineering Committee. The responses include an evaluation of the proposal by the various technical specialist, as well as recommendations and further technical requirements to implement the suggested changes.

I would suggest that once your Engineering Committee and staff members have had a chance to review the responses prepared by our technical staff, that you contact me at 312-353-6400 ext. 1809 so that we can set up a meeting to discuss these items.

Sincerely,

[Signature]

Imad N. Samara
Project Manager

Enclosures
Summary of Recommendations/Issues

A synopsis of the Chicago District Review of the Conceptual VE study presented by the Little Calumet River Basin Development Commission’s Engineering Committee is presented in the first two pages of this response. The following pages include detailed responses from the technical disciplines on each of the four VE issues.

VE Issue (1)-Stage VI. Realignment of levee with possible levee construction in the channel, with possible dredging, with possible material removal from the Old Highland Dump.

Summary of Recommendations
(1) Construction of a levee section into the channel is not recommended based on several factors:
- Steepness of the existing banks and channel slopes.
- Fill into or dredging of the channel would require permits and likely new NEPA coordination.
- Sediment is polluted and may require special handling (including de-watering) prior to disposal in a landfill. Extensive testing may be required for dredging as well as disposal.
- Disposal costs are local sponsor costs.

(2) Intrusion into the Old Highland Dump site is not recommended based on several factors:
- Groundwater contamination was determined based on recent testing at the site (QST/COE 1997)
- Material removed may require special disposal.
- Disposal costs are local sponsor costs.

VE Issue (2)- Stage VIII Levee Alignment.

Summary of Recommendations
(1) Recommend that the 4 homes west of Hohman Avenue be removed from consideration within this study, as this issue is already being addressed through separate correspondence with the Commission.
(2) Do not concur that levee behind Southmoor homes should be replaced by fill to bring the embankment height up to the top of levee elevation.
(3) Concur that the levee alignment/choice of materials for Stage VIII should be re-evaluated and other reasonable options considered.

VE Issue (3) - Stage V-2, Woodmar Country Club - tie-back levee and easements instead of riverbank levee.
Summary of Recommendations

The VE concept may warrant further investigation by the Sponsor’s Committee, but there may be little or no cost savings associated with this plan.

1. Tie-back levees of around 1 mile would be required to replace the riverbank levees.
2. Real Estate would be required from Woodmar CC to construct the tie-back levees.
3. A flowage easement would likely be required up to elevation 604 - the height of induced flooding with the project and Control Structure in Place.

VE Issue (4) Clay Borrow.

Summary of Recommendations

1. Concur with the recommendation to utilize Doughman borrow site with reservations noted in enclosed detailed responses.
from the river bank in many areas.

Vertical crest, fronds and other debris was observed producing
vertically. The wing bank slope near the water's edge is essential.

The river bank slopes near the water's edge is essential. In several areas, the portion of the
soil portion taken in 1979 along the wetlands proposed
by the results of the 1979 portion of the
1979 portion, the handpicks appear to be
located and located adjacent to the south

The consequences of the sedimentation are not "clean".

Adverse consequences of the sedimentation are not "clean".
deposits and having costs, testing of sediments,
the south river bank will raise other issues, e.g., execution
of North Drive, Kenwood Avenue and Duport Avenue.
Excavation at the end of
residential structures and the river (2.e. at the end of
inundation areas). Where there is not much room between
excavation of the south side can induce potential slope

Similar concerns pertain to moving the bank into the river.

Suggest river bank deposition.

Suggest river bank deposition.

Due to the general, soft organic consistency of the
steep river banks along several portions of this reach, and
channel widening toward the river due to the presence of
slope stabilization concerns will increase when the levee

Match #1, Levee Bush (ED-67)

Response:

Response:

Change without disturbing landfills materials.

Channel widening does not require to determine if we could re-
channel widening would not soil portions of
consistent channel with the consistent cross section, what is the
and excavate into the south side to maintain a

Reoccur the levee into the channel on the north side,

Comment/Suggested Action:

Comment/Suggested Action:

Reference: Map #1

Location: Stage VI-1, north and south levee alignments

Committee:

Product: Recommendations from ICORP, Engineering, Technical

V3 Issue 1

CONCEPTUAL VS COMMENT, RESPONSE, RESOLUTION
Recommendations:
PDT Member: Leslie Bush (ED-GT)
(3) Consider other alternatives to shifting the levee alignment into the river channel, such as, incorporating the use of sheet piling and additional impervious fill to bring existing embankment to a design flood elevation, as well as provide continuous access along the alignment for O&M maintenance and flood fighting.
(2) Minimize fill and excavation in the channel
(3) Due to the presence of landfill materials and associated environmental issues, do not excavate into the south riverbank at the Old Highland Dump. Retain the current levee alignment.

Technical Requirements:
(3) In the event of moving the levee toe towards or into the river, slope stability analysis will be required to evaluate riverward slopes. Soil borings and laboratory testing will likely be required in some areas.
(2) Reinforced earthen embankment (sheet pile & impervious fill added to existing levee) designs would need to be developed.
(3) Evaluation of potential disposal sites required for material excavated from the channel or the south river bank in the vicinity of the Old Highland Dump. Disposal costs are part of LERRD’s.
(4) Geotechnical design analyses would need to be performed for any alignment change to evaluate levee foundation conditions and embankment seepage and settlement conditions, in addition to stability concerns. Structural design analyses would need to be performed for the floodwall alternative.
(5) Evaluation of structural interaction and stability will be required for the options of incorporating sheet piling into existing embankment structures and use of a floodwall.

Response:
PDT Member: Susanne Davis (ED-HH)

Relocation of the north levee in this reach into the channel generates a number of concerns in terms of the channel cross section. Because of the steep in-stream slopes, and the great depth of the channel invert, it would be difficult to construct the levee along the north bank
without a great deal of fill. Even then, as noted by ED-GT, there would be concerns about the levee slope stability. The addition of a large amount of fill into the channel would require excavation of a similar volume on the south bank. In some reaches, specifically at the west end of this reach, there is insufficient area available on the south bank to serve as compensatory area. A cross section plot of the channel (from the UNET hydraulics model is attached.) Utilizing the existing cross section plot, a typical levee section was overlayed (enclosure 1) to illustrate the increased fill and excavation volume requirements associated with this alternative.

Recommendations:
PDT Member: Susanne Davis (ED-HH)

(3) Fill into and excavation of the channel is not recommended.

Technical Requirements:

If an alternative levee alignment which places the north levee into the channel, and requires removal of material from the south bank of the Little Calumet River, then the following steps would need to be taken.  
(1) Obtain detailed cross section data from Cline Avenue to the SE Hesseville discharge in those reaches where realignment will be considered. Section should be obtained every 500 feet.  
(2) Develop new cross sections for the UNET hydraulics model that contain the fill and cut information associated with the new alignment.  
(3) Run the UNET model simulations for a range of with-project and with-modified project conditions to determine the impact of the alignment change, if any, on project performance.  
(4) Optimize the configuration of the channel cross sections in order to minimize any impacts on project performance.  
(5) Revise O&M Manual to include periodic dredging in this reach in order to maintain the optimal project cross section.

Response:
PDT Member: Kirston Buczak, Don Walsh, (ED-HE)
As noted in the revised HTRW assessment include in FDM 5, Appendix H, there are a number of concerns associated with excavation at the Old Highland Dump Site, as well as the dredging and disposal of channel sediments. In addition to the technical issues regarding the quality of the materials to be excavated, the proposed modifications to the levee alignment (i.e. move the levee into the channel on the north side, and remove material from the south, including the old Highland Dump Site) would require modification of the EIS, including review, and the procurement of appropriate state permits for fill placement and dredging operations.

Issue (1) - Sediment Quality.

Based on assessment of sediment quality (SEEEO, 1979), the channel sediments in the reach between Cline Avenue and the SE Hesseville discharge contain heavy metals, Volatile Organic Carbons, and pesticides, Chlordane and Heptachlor Epoxide. The presence of these pollutants would likely require handling, dewatering and disposal. The sediments would likely need to be dewatered in a controlled manner that included capture and treatment of the effluent prior to disposal. Real Estate would need to be obtained for the sediment dewatering operation.

Issue (2) - Excavation into the Old Highland Dump.

Based on the HTRW report, the Old Highland Dump was an unregulated landfill for approximately 20 years. Over time, municipal as well as industrial waste was dumped there. Samples taken from the landfill in 1997 show that numerous contaminants are present in the groundwater at the landfill including Cadmium, Arsenic, Chromium, Mercury, and Benzene. (QST, 1997) The levels of these contaminants violated IDEM’s residential and non-residential use standards. Material excavated from the bank along the dump might be classified as special waste, which would require special disposal.

Also, any excavation at the landfill would need to be carried out in such a way as to minimize any erosion into the channel (in accordance with a fully approved Storm Water Pollution Prevention Plan). Erosion protection will have to be installed, and because of the steepness of the existing bank, the erosion protection will be difficult to install and maintain.

Technical Requirements:
(3) If dredging will occur, current sediment sampling and analysis (chemical, physical characteristics, and biological toxicity testing would be required in order to determine the appropriate dredging, disposal and dewatering techniques. Also, this information would be required for the additional permits required. (2) If the material is removed from the Old Highland Dump, an appropriate HASP would be required. Since the Old Highland Dump is currently capped, it is unlikely that the excavated material could be disposed of onsite. Sampling and testing of the excavated material would be required in accordance with the disposal landfill's requirements. If levels of contaminants in the excavated material are high, then the material may need to go to a special waste landfill. Disposal costs are part of LERRD's.

Recommendations for further Study:
(3) Assess the potential for utilizing a sheetpile and impervious fill core and the existing riverbank levees.
(2) Evaluate the locations on the north and south bank where this change in the levee configuration is applicable.
(3) Determine the cost for the revised levee configuration in terms of increased construction versus reduced real estate costs.
CONCEPTUAL VE COMMENT, RESPONSE, RESOLUTION
VE Issue 2

PROJECT: Little Calumet River, Indiana

PRODUCT: Review

LOCATION: Stage VIII - Illinois-Indiana Stateline to Columbia Avenue

Reference: Map #2A

Comment/Suggested Action:
A. Reconsideration of the acquisition and/or flood protection design west of the former L&N RR (West Lake Corridor) and north of I-80/94.
B. Facts and Questions to be addressed.
   1. Facts to be considered:
      ➢ Illinois levee crest is 598.0
      ➢ Proposed Indiana levee at 601. End around flooding from Illinois is possible from state-line to L&N embankment.
      ➢ Table 1 from FDM 5.
   2. Questions:
      ➢ Schedule for completion of CMD and Thorn Creek Reservoir compared to Stage VIII?
      ➢ Any plans to raise the Illinois Levees?
   C. Minor river channel realignment to allow use of earthen embankment rather than floodwall (Stage VIII and others?)
      ➢ Harrison Street - realign the north levee and eliminate over 500 feet of I-wall on the south levee.
   1. Facts to be considered:
      ➢ Typical levee ($400/lf) v. Typical floodwall ($1500/lf)
      ➢ It appears that by minor shifts in the river channel, sheet pile could be replaced by earthen levee.
   2. Questions:
      ➢ If the channel is shifted, is there adequate space to construct earthen levee rather than sheet pile wall?
      ➢ What is required to shift the channel? Permits needed?
      ➢ What is the potential savings if change to earthen levee is implemented?
Response/Action Taken:

PDT Member: Leslie Bush (ED-GT)
A.
(1) Foundation soil information provided in soil borings taken in this vicinity along the I-80/94 embankment toe during 1991 is not adequate to base a design evaluation of potential flood control structures to be located between the houses and the river. Foundation soil information would be required.
(2) With respect to the Southmoor Section, foundation preparation will dictate the removal of all vegetation along the riverbank for this option. The existing, tall, steep hillslopes between Southmoor residents and the river will dictate the import of substantial quantities of material for an earthen levee option. Constructibility issues may be more complicated for an earthen versus floodwall structure in Southmoor.

Recommendations:
PDT Member: Leslie Bush (ED-GT)
For the Southmoor section, consider other alternative to use of an earth levee such as incorporating the use of sheet piling and impervious fill to bring existing embankments up to a design flood elevation.

Technical Requirements:
PDT Member: Leslie Bush (ED-GT)
(1) Subsurface investigations through the use of soil borings and laboratory testing would be necessary in the Southmoor and Harrison Street vicinity.
(2) Geotechnical design analyses would need to be performed for any alignment change to evaluate levee foundation conditions and embankment seepage and settlement conditions, in addition to stability concerns.
(3) Evaluation of structural interaction and stability will be required for the options of incorporating sheet piling into existing embankment structures and the use of a floodwall.

Response/Action Taken:

PDT Member: Susanne J. Davis (ED-HH)

A. Acquisition of the four homes west of Hohman, as included in FDM 5, was based on concerns for safety of the
residents and rescue personnel during a large rainfall event. These concerns were raised by the Community and the Local Sponsor during the completion of FDM 5. Currently, a surveyor has been secured to survey the profile of River Drive as well as each driveway. Elevation data will be used in further assessment of the safety issues associated with the structures. This issue will be handled through separate correspondence from Project Management.

Regarding the elimination of a constructed floodwall at Southmoor and replacement with minimal fill to regrade the backyards to the top of proposed levee height. Less than full level of protection (provided by a designed levee to the full freeboard height) will provide these residents with a lower level of protection from riverine flooding than the remainder of the project.

B. (1) Facts. Facts are noted. ED-HH has consistently advised that there will be end around flooding from Illinois when the Illinois levee is overtopped. (See FDM5 and FWPP). Completion of the Thorn Creek Reservoir project reduces the impact of the lower Illinois levees, however, freeboard is only maintained at 0.8 feet above the 200-year from end around flooding (Table 1, FDM5, Main Report).

(2) Questions.

➢ Thorn Creek Reservoir (Stage I) is under construction and expected to be online in late 2002. Cady Marsh Ditch project is under design at present.

➢ There are no plans to raise the Illinois levees. There are, however, issues with the structural integrity of some of those levees that need to be addressed with improved maintenance. (J. McHenry, 1994). The bottom line – the level of protection at the state line may be at or below 598 ft NGVD depending on the reliability of those levees.

➢ The State of Illinois is pursuing remapping of the Little Calumet River (Illinois) Flood Plain based on the operation of the Thorn Creek Reservoir project. As noted, rehab/maintenance of the Illinois levees is also an issue with the flood plain remapping that will be pursued once the Thorn Creek Reservoir is online.

C. Minor Channel realignment to allow the use of earthen embankment versus floodwall.

(1) Facts: Concur that there is a large difference between earthen levee and floodwall costs. Additional evaluation would be required before it can be determined if there
would be net cost savings from moving channel and relocating the levee.

(2) Questions:
➤ This question would need to be addressed on a case by case basis, utilizing cross section cuts as well as the plan views included with this proposal, to determine if there is sufficient space for an earthen cross section. Other issues that must be considered are real estate constraints as well as the constructability. We concur that there is merit in re-evaluating the levee/floodwall determination in Stage VIII.

➤ As discussed in response to the first VE issue (Stage VI), the sediments in the Little Calumet River would likely require special disposal. Permits would be required for dredging into the channel as well as for disposal or any material (this includes levee construction) into the channel. The local sponsor would have to apply for the permits. It is also likely that another Supplemental EIS would need to be prepared which would include public comment and review periods.
➤ What are the potential savings? Calculations of the changes in the alignment would need to address the cheaper earthen section, but would have to include redesign costs, additional coordination costs, and dredging, disposal, and dewatering costs.

Recommendations:
PDT Member: Susanne J. Davis (ED-HH)
(1) Review the selection of the type of protection (i.e. earthen levee vs. concrete floodwall) in Stage VIII, based on cross section information as well as plan views.
(2) Determine if there will be an encroachment beyond the existing levee cross section into the conveyance area with a revised (earthen) section. The revised section should take into account drainage swales and/or sewer connections as coordinated with the Town of Munster.
(3) Encroachment of the levee section into the channel should not be pursued.

Technical Requirements:
PDT Member: Susanne J. Davis (ED-HH)
(1) Changed cross section/levee alignments must be checked to insure that there is no reduction in the conveyance area
CONCEPTUAL VE COMMENT, RESPONSE, RESOLUTION
VE Issue 3

PROJECT: Little Calumet River, Indiana

PRODUCT: Review current levee alignment

LOCATION: Stage V-3 (Woodmar Country Club)

Reference: Map #3

Comment/Suggested Action: Review current levee alignment. A. Facts:
(1) Acquisition of Woodmar will be extremely expensive
(2) Levee construction will disrupt golf course operation for almost 18 months.
B. Questions:
(1) Is project flood protection needed for the golf course? How many days per year is the course flooded versus the estimated days it will shut down for levee construction?
Note: The 100 year flood (595.1) goes approximately 1/4 mile from the river, approximately 2/3 of the way to the clubhouse.
(2) From a project standpoint, would it be cheaper to construct tie-back levees on the east and west side of Woodmar and pay Woodmar for slightly increased flood elevations and durations?

Response/Action Taken:

PDT Member: Leslie Bush(ED-GT)
(1) General geotechnical design analyses would need to be performed to evaluate levee foundation conditions and embankment stability, seepage and settlement conditions.

Recommendations: None

Technical Requirements:
(1) Perform subsurface investigations through use of soil borings and laboratory testing, and perform geotechnical design analyses and make associated levee cross-section design recommendations.
Response/Action Taken:

PDT Member: Susanne Davis (ED-HH)

Reconstruction of the levee located on the Woodmar Country Club serves two project purposes. First, as noted in the VE proposal, the levee protects the golf course from damages associated with flooding (i.e. lost playtime, damage to the course, etc.). In addition, because of the proximity of the confluence of Hart Ditch and the Little Calumet River, the Control Structure is located in this reach of levee. As noted in FDM 5, (1994) and the Phase II GDM, (1986) the Control Structure minimizes downstream impacts to the State of Illinois. Without the inclusion of the Control Structure as a project feature, flows, flood volumes and flood stages downstream of the project exceed regulatory constraints. Installation of tie back levees around Woodmar could facilitate construction of the Control Structure. However, those levees would need to extend to elevation 604.9 on the upstream end and 604.0 on the downstream end of the control structure. This would require construction of the tie-back levee ranging in height from 6 to 12 feet (without overbuild for settlement), with a footprint of 40 to 70 feet along the east side of Northcote (presumably on the Woodmar side of the residences) and along the abandoned L&N RR embankment. Based on the site topography, these levees would tie into the I-80/94 embankment.

Regarding concerns about the impact of construction on the golf. Construction of the levee project within Woodmar may be possible within a single construction season, thus reducing the potential impact from 18 months (as noted above) to 9 months (March to November). The contract would have to be awarded far enough ahead of the start of the construction season so that the contractor would be ready to start construction at the beginning of the season.

Recommendations:

PDT Member: Susanne Davis (ED-HH)

(1) Replacement of the riverine levees with tie-back levees would require a tie-in at the I-80/94 embankment. This would result in nearly 1 mile (5,100 feet) of embankment.
There would be significant impacts to the functionality of the Country Club.

Technical Requirements:

PDT Member: Susanne Davis (ED-HH)

(1) The tie-back levees would need to be laid out on current topographic mapping. The project mapping currently does not extend upland away from the levee alignment, so new mapping would need to be developed, consistent with the remainder of the project mapping.

(2) Revised Real Estate drawings would need to be developed to determine the requirements for the tie-back construction as well as the limits of the flowage easement which will extend to elevation 604.0 ft NGVD (the elevation of induced flooding).

(3) Develop a cost comparison between the existing levee construction plan and the proposed tie-back with larger flowage easement.
CONCEPTUAL VE COMMENT, RESPONSE, RESOLUTION  
WE Issue 4

PROJECT: Little Calumet River, Indiana

PRODUCT: Clay Borrow

LOCATION: Clark & north of Ridge

Reference: VE proposal

Comment/Suggested Action: Utilize clay borrow from the Doughman site for the remainder of the project.

Response/Action Taken:

PDT Member: Leslie Bush (ED-GT)
(1) Based on the use of numerous quantities of clayey soil from this site, it is known there are occasional pockets of silt and wet clayey soils. These conditions are manageable by not accepting the silt and using earthwork techniques to reduce the moisture of the soils during placement.
(2) Standard borrow material selection laboratory testing will be required per construction contract to verify the proposed are of borrow material satisfies levee material criteria.
(3) It is likely that Mr. Doughman will willingly expand the lateral extent of the borrow site, should the clay quantity requirements increase (i.e. levees replace floodwalls.)

Recommendations: Maximize use of this site.

Technical Requirements: Perform a subsurface investigation through use of soil borings and laboratory testing to verify the existence and engineering properties of the potential clayey soils (borrow) for the remainder of the project.

Response/Action Taken:

PDT Member: Imad Samara (PM-PM)
We concur that having an established borrow site similar to Big Maple Lake has the potential to reduce project costs.
In order to accomplish this, the sponsor has been advised by Project Management to obtain an easement for the Doughman property. The government cannot require a contractor to purchase material from a single source, however, if an easement was procured, then the government's contractor could be directed to removed the clay from that location. The landowner would be receive compensation based on before and after appraisals performed for the easement.

**Recommendations:**

If all of the technical requirements (see comments from Leslie Bush, above) including an HTRW assessment have been meet and the local sponsor obtains an easement to allow the COE contractor to remove the clay, then we recommend that this VE proposal be accepted.
CONCEPTUAL VE COMMENT, RESPONSE, RESOLUTION

PROJECT: Little Calumet River, Indiana

PRODUCT: Review

LOCATION: All

Reference:

Comment/Suggested Action: Proposed VE study to be performed by the Local Sponsor

Response/Action Taken:

PDT Member: Bob Behrns ED-DC

The Local Sponsor at this point has not identified an appropriate VE team to conduct this study. The disciplines that the Corps requires for its team are senior level individuals in the following areas: one certified value specialist, geotechnical engineer, environmental engineer, civil engineer, and cost engineer. It is imperative that all study team members have significant experience and be well-versed in hydrology, wetlands, and civil design. Any soil borings and soil samples taken shall meet Corps standards in order to be acceptable. Concur with Sue Davis' comments.
OVERVIEW OF CONCEPTUAL VE STUDY
LITTLE CALUMET RIVER FLOOD CONTROL
AND RECREATION PROJECT

SYNOPSIS OF MEETING
2 FEBRUARY 2002

VE ISSUE 1
Location: Stage VI
Issues Addressed:
> Relocate north levee into channel.
  Minimize Real Estate requirements
  Impacts: Excavate in/near Highland Dump
  Fill into Channel
Results of Discussion:
> Eliminate any incursion into Highland Dump
  Disposal Issues, Permitting Issues
> Fill in channel not recommended; not economically feasible
  Wide, deep section would require large amounts of fill
  New permits required for work in channel
> Corps evaluating potential for minimizing levee footprint in Stage VI
  Evaluating retaining wall on landside toe
  Minimize Real Estate in vicinity of Hotels
  Commission to check on status of Burger King property
> Krosan Property
  Commission to address through legal channels (75 foot easement)
  Commission awaiting response from Krosan per Real Estate requirements
  Corps to provide minimal footprint requirements for this location.

VE ISSUE 2
Location Stage VIII
Issues Addressed:
> Four Homes West of Hohman Avenue
> Levee Protection at Southmoor
> Type of Protection (Levee vs. Floodwall) including location (in channel)
Results of Discussion:
> Four Homes
  Survey of River Drive and driveways completed
  Water levels for 100 and 200 year storms (with full project) compared to survey data
  Commission to receive letter from District
  Commission with coordinate with Munster regarding public safety issues
  Evacuation of residents could be initiated as part of the Flood Warning Plan
  Investigate a potential road raise of River Drive

> Southmoor Estates Levee
  Small earthen berm on top of existing embankment not recommended, full section would be required. Thus the Corps recommendation of short floodwall.
  Citizen concerns about the need for any protection discussed.
Discussion centered on ways to minimize construction easements/impacts
Geotech issues would need to be addressed (including stability/watertightness of existing embankment)
Corps indicated it would be available for discussions with residents.
End around flooding will still occur for certain events (greater than 100 year)
Investigate potential innovative construction methods to construct this segment from the riverside.

Type of Protection
Corps indicated it would continue to pursue optimization of alignment through it’s Contractor and in-house staff
Commission indicated it may do it’s own evaluation of in-channel fill versus floodwall after the Corps analysis is complete.

Contractual Update
SEH contract may be put on hold do to budgetary constraints. Stage VIII issues will be addressed, but it may be in the future.

VE Issue 3
Location: Woodmar Country Club
Issues Addressed:
➤ Tie-back levee and easement versus riverbank levee
➤ Length of Construction time (i.e. impacts on club operation)
Results of Discussion:
➤ Tie back levees would need to extend to elevation 604.9 (I-80/94 embankment).
➤ Tie backs would extend about 5000 feet
➤ Flowage easement would likely need to extend to 604.9 (induced water level)
➤ Construction per field office could be completed in one season
➤ Potential for bonus/liquidated damages in Corps contract discussed
➤ After the evaluation of construction impacts is complete, the appraisal will need to be reviewed and possibly redone.

VE Issue 4
Location/Issue: Doughman Borrow Site
Issue Addressed:
➤ Dedicated use of Doughman site for west reach levees
Results of Discussion:
➤ Corps cannot recommend use of Doughman as sole source
➤ Potential issues with use/timing of work on Hartsdale Pond
➤ Commission to provide storage/elevation info for Hartsdale Pond
➤ Easement at Doughman discussed/rejected – not profitable for Doughman
➤ Corps indicated that additional sources will not need to be identified as Doughman and/or Hartsdale Pond should provide sufficient material for the West Reach levees.
January 14, 2002

Mr. Imad Samara
U.S. Army Corps of Engineers
111 N. Canal Street
Chicago, Illinois  60606-7206

Dear Imad:

Enclosed are a number of items that have been brought to your attention either recently or within the last several years regarding various issues we feel are critical to the project. We have listed these in order of their importance. Priority “A” (p.1) must be dealt with immediately. Priority “B” (p.2-3) are important issues which we have previously submitted but have never received a response and we feel are critical to helping move the project along in a timely and efficient manner. Ongoing Project Concerns (p.4) and the Outstanding Technical Issues (p.5) are not a priority but have been previously submitted or discussed and we never received a response or resolution. We also listed several outstanding technical issues that we feel need more discussion.

As we have previously discussed with you regarding these issues, we have been instructed by our Board of Commissioners at the January 3rd Board meeting to have answers to these issues or at least the status of what has been done, and when they will be responded to. We understand that at the upcoming Commission meeting on February 7, Deputy District Engineer Ray Coughenour will be attending and we think these issues will be one of the main topic of discussion at that meeting.

Please call so we may coordinate with you for the upcoming meeting with Ray and our Board members.

Sincerely,

Dan Gardner
Executive Director

Cc: Ray Coughenour
LCRBDC members
Jim Flora, R. W. Armstrong
LITTLE CALUMET RIVER BASIN DEVELOPMENT COMMISSION
OUTSTANDING ISSUES
January 14, 2002

"A" PRIORITY ITEMS" (Need immediate response)

1. Responses to the five (5) outstanding Gary Sanitary District’s (GSD) concerns
   - Most recent correspondence: Dan Gardner's letter of November 14, 2001
     reminding the Corps that we are still awaiting responses to the five (5) issues
     attached to a letter transmitted on September 6, 2001.
   - Many of the GSD issues go back to 1998.
   - Status: Still awaiting Corps response to September 6, 2001 letter and issues list.
   - This is critical because neither the city of Gary nor the GSD will discuss anything
     with the LCRBDC regarding operation and maintenance until we receive answers
     to these 5 questions.
   - Upon receipt of your responses, the LCRBDC will preliminarily coordinate with
     the city of Gary to discuss your responses.
   - The final step would be to have a coordination meeting with LCRBDC, ACOE,
     and representatives from the city of Gary to not only address these concerns but
     also to discuss the possibility of Gary accepting any of the operation or
     maintenance for East Reach construction.

2. Cost savings engineering (value engineering issues)
   - The list of cost savings items was transmitted to the Corps, along with all maps
     and information, with Dan Gardner's letter of December 6, 2001, which was a
     follow-up to a conference call with Imad Samara on November 30, 2001.
   - We believe the next step in evaluating these items was for various Corps staff to
     review the items, give them some thought and then be ready to meet with us and
     discuss them. The purpose of the meeting would be to determine feasibility of
     each item along with the likelihood that pursuit of the item would result in
     significant cost saving. Those items judged to be worthy of further analysis would
     then be developed in more detail along with a cost estimate to compare to the
     current design and cost.
   - Upon receiving your comments, the LCRBDC would then work with the ACOE
     to obtain cost information in order that R. W. Armstrong (Jim Flora) may prepare
     a cost evaluation to determine if modifying existing design would be beneficial to
     your project.
"B" PRIORITY ITEMS (Important to project, previously submitted or discussed, received no response)

1. Utility relocation coordination
   • We requested from you in a letter dated November 15th a list of all utility relocations, including costs, location and engineering, for all of the relocations in Stage VI Phase 1 and Stage VI Phase 2 in order that we would be able to proceed with the necessary agreements.
   • The A/E's for Stages V-2, V-3 and VI-1 made substantial efforts on utility relocation, but did not obtain acceptable relocation plans and cost estimates.
   • The A/E utility relocation efforts on V-2, V-3 and VI-1 were made about 5 years ago. Consequently, with change in personnel at the utility companies, current utility relocation efforts have almost been like starting over.

2. Stage V Phase 2 pipeline elevations and locations
   • As per your request, we provided you with some information regarding the location and elevations of the pipelines in the corridor west of Kennedy Avenue.
   • We were requested to get additional information in order to finalize your engineering drawings for Stage V Phase 2 (which we feel should have been part of the scope of work for Stanley & Associates in their original contract).
   • We have received costs from our surveyor, as well as from Badger Daylighting, indicating that if we provide this information, it could cost the LCRBDC up to $40,000 which, although being creditable, would defer money that we feel could be more beneficial to the project in purchasing lands or doing utility relocations in Stage VI Phase 1.
   • Directional boring – Phillips Pipeline
     > Very old issue – 4 or 5 years old
     > Phillips Pipeline requested $25,000 to provide additional engineering information requested by Corps.
     > Still waiting on written authorization that allows this cost to be creditable.

3. INDOT project at Indianapolis Blvd. in the Tri-State area
   • A meeting was held with INDOT, North Township, Highland, COE, and LCRBDC on June 14, 2001 to review drainage concerns in this area that will be changed due to the INDOT project. The COE agreed, at this meeting, to provide hydrology information to INDOT to help them calculate pump station capacity. INDOT does not have this information to date.
   • Your letter of May 24, 2001 indicated to INDOT that it would be in the best interest of the community if the upland drainage changes were to include a pumping unit at the site of our 48” outlet.
   • We have a meeting scheduled for January 23, 2002 with INDOT, North Township, town of Highland, LCRBDC, and the ACOE to review drainage concerns regarding the additional flow of water that will be brought into this area due to INDOT’s project.
   • Please provide us information regarding the drainage for the North Township property which includes the Wicker Park golf course in order that INDOT can complete their calculations and design for their project.
   • According to INDOT, this project is currently scheduled for advertisement in February 2003, award in March 2003, and construction start in May 2003.
4. **Engineering review of plans and specifications**
   - In several recent sets of plans and specifications, the LCRBDC was given very incomplete sets of drawings to be reviewed for comments.
   - These include Stage VII as well as Stage VI Phase 2.
   - When we addressed concerns regarding this design, many of these issues were not addressed in the 100% plans and specifications for final review.
   - We feel that we should not be given any plans and specifications until the set is completed in its entirety in order that, not only the LCRBDC but local communities and utilities would have the opportunity to accurately give you their input.
   - Important issues have been answered by the words “discuss” or “discuss with Corps”, and that is the last that we have heard of the issue until we raise the same issue at the next plan review.
   - Unresponsiveness results in a 100% set of plans which may need significant revision to become a final set of plans when all the comments are finally addressed and resolved.
   - Unresponsiveness results in added project cost because comments are not addressed at a time when changes in the plans would be easiest.

5. **Remaining East Reach recreation features**
   - We requested from you a list indicating the schedule and proposal for the remaining recreation features in the East Reach.
   - This would include the modified Grant Street and Broadway trail crossings.
   - Would the recreational trail crossing over the EJ&E RR (east of Cline Avenue) be included as a feature recreation project or would it be part of another construction phase?
   - Will the Stage VI Phase 2 recreation features be included with that contract or will those trail modifications be included with a different project?
   - Was that scope of work to be included as part of the engineering fee by RANI Engineering? If so, we are concerned that we would be paying double to have the ACOE do the engineering for that recreation segment.

6. **Project borrow sites**
   - We submitted a letter to you on December 12th requesting that you remove the Clark/Chase borrow site as the presently-designated site for clay.
   - Please indicate to us in writing if this is acceptable to the ACOE.
PROJECT CONCERNS (ONGOING)

1. **Creditable cost versus project cost**
   a. It seems like there is a trend to have LCRBDC do various tasks and classify them as creditable rather than structuring the task so that it can be done as a project cost.
   b. LCRBDC pays more for creditable costs (100% local) than they do for project costs (25% local). Now that LCRBDC’s funding sources are so tight, this is an important issue.

2. **Scheduling**
   • Project schedule should coordinate with funding.
   • Schedule should allow adequate time for local review.
   • Adequate time should be included for real estate acquisition and utility relocation (coordination, agreement and construction).
   • Projects continue to be designed too far in advance of actual construction — Example: Stage VII and VIII.

3. **Compensability**
   • Has the issue of whether utility relocation in a public right-of-way is creditable been resolved?
OUTSTANDING TECHNICAL ISSUES

1. Quarterly Technical Review meetings
   • For the past several years, we have only averaged two technical meetings and
generally, we review many of the same items that have not been answered or
addressed directly as per our requests.
   • We would request that we do have quarterly technical review meetings to not only
address outstanding issues, but to help both you and us to address other
outstanding engineering or project concerns.
   • It affords the LCRBDC the opportunity to meet, not only with the project
manager, but also with departmental heads or other engineering representatives
that normally do not attend meetings that we have locally.

2. Sheet piling issues
   • There are two primary issues associated with sheet piling.
     ▶ Potential damage to adjacent property during sheet pile driving.
     ▶ Useful life of sheet pile where it is not encased in concrete and subject to a
corrosive condition, such as the first few feet of soil.
   • The above issues have been raised a number of times. Most recently, with Stage
VII and VIII plan reviews.

3. Overflow Section
   • What is the risk of armoring an overflow section?
   • Are unarmored overflow sections likely to wash-out any time any significant
amount of water overflows?
   • Since the terrain adjacent to the levees provides few natural tie-backs to high
ground, it appears that any overflow of the overflow section which causes it to
wash out will result in widespread flooding on the landside of the levee.

   Note: This is a technical issue LCRBDC has had with the Coe dating back
to 1997. Although we have discussed this a number of times at our
Technical Review meetings and received a number of responses, the COE
has not actually said there is no concern for failure at these locations
without armoring. Do other COE Districts use this type of overflow
without armoring, or do they use overflow sections at all?
WORK STUDY SESSION
ENGINEERING COMMITTEE
FEBRUARY 7, 2002

Bob Huffman, Committee Chairman

1. A meeting was held with the COE on February 1, 2002 to review the V.E. proposals submitted by the LCRBDC.
   - Refer to the handout
2. Outstanding issues not resolved with the COE as submitted to them on January 14, 2002.
   - Received COE responses on February 7, 2002
   - Need to complete review, assign follow-up tasks, and have appropriate meetings to resolve.
3. INDOT request for LCRBDC review of their plans for upcoming construction on I-80/94 from west of the Illinois State line to Clay Street. (Response letter attached)
   - We requested information on their design to address environmental runoff.
   - We requested no drainage changes for flow going to our culverts or sluice gates.
   - We wanted assurance that at no time would our line of protection be degraded.
RESULTS OF REAL ESTATE MEETING HELD 24 JANUARY 2002
THE ARMY CORPS OF ENGINEERS and
LITTLE CALUMET RIVER FLOOD CONTROL & RECREATION PROJECT

IN ATTENDANCE:  

LCRBDC  COE
Dan Gardner  Imad Samara
Lou Casale  Chrystal Spokane
Angie Ogrenzt  
Jim Pokrajac  
Judy Vamos  

1. CREDITING

a. Discussion was held on the LCRBDC 75 foot drainage easement. Judy asked the Corps if crediting of the 75 ft. drainage easement is feasible. She has spoken with Dale and he said the land has value. She suggested that an appraisal could be completed. Lou has researched, however, and found that the easement does not carry full easement authority but does have a limited value which could affect appraisals. Chrystal requested that Lou send a letter to the Corps (attorney Don Valk) requesting an answer about the crediting. Current LCRBDC mapping does not show the easement. LCRBDC will have a staff meeting in the next few days to discuss how surveys should be changed to show the drainage easement.

(ACTION: Don Valk/COE and Lou, LCRBDC staff/LCRBDC)

2.) FOUNDATION INSPECTIONS IN STAGE VII

Sheet-piling may cause vibration damage to the homes in Stage VII and the contractor is considering video-taping the exterior and interiors before and after the construction for real or personal property damage. Chrystal suggests that a Right-of-Entry to video-tape be obtained from the landowner before the taping is done. That ROE document should be mailed together with the Uniform Land Offer. She has done this before and states "it works." Chrystal will get the legal language. Everyone agreed. Lou will research if compensation is due to the landowner.

(ACTION: Chrystal/COE and Lou/LCRBDC)

3.). RIGHTS-OF-ENTRY FOR FOUR HOUSES WEST OF HOHMAN IN STAGE VIII

Judy reported that she has obtained three of the four rights-of-entries for the houses west of Hohman. Corps wants to conduct topography and structural studies to eliminate or not eliminate the houses from the project. The remaining landowner, Mr. Gleason, will return his ROE on 1/24/02.

(ACTION: Judy/LCRBDC)
4.) **PUBLIC MEETING FOR STAGE VII ON 30 JANUARY 2002**
   a. Judy reported that 210 letters were mailed on 1/18/02 to residents affected by the flood project. She's been receiving calls about the meeting and project. A particular resident has called saying the meeting could be contentious. Landowners are particularly sensitive about loosing their trees. Dan said the theme to the meeting should be "We'll do as little damage as possible." Everyone agreed.
   (ACTION: COE and LCRBDC)

5.) **RIGHT-OF-ENTRIES FOR MITIGATION AND STAGE III REMEDIATION**
   a. There is a discrepancy in the acreage listed on the Mitigation Right-of-Entry map and the acreage needed as stated in the Mitigation Plan approved by the IN DNR. Acreage problems:

<table>
<thead>
<tr>
<th>Plan</th>
<th>Right-of-Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 acres+</td>
<td>17 acres</td>
</tr>
</tbody>
</table>

   29th and Hanley
   Clark to Chase North
   Clark to Chase South

   Imad stated that the acreage increases are for work limits and he will speak with Greg Moore about defining permanent and temporary work area limits on a new map.
   (ACTION: Imad/COE)

   b. Stage III Remediation
   There is a problem with this ROE. Jim had asked the Corps to consider moving a pipeline farther north to allow more land in this area to be available for development. The current ROE map does not show this. Imad will check.
   (ACTION: Imad/COE)

6.) **ACQUISITION STATUS**
   a. 29th and Hanley – a map of 29th and Hanley was included in the Mitigation ROE. Chrystal said it was included for LCRBDC to "throw out." She asked Dan to write her a letter stating his objections to having mitigation completed on 29th and Hanley and Corps will respond with an approval to eliminate 29th and Hanley.
   (ACTION: Dan/LCRBDC)

   b. Burr Street Betterment Levee – Judy reported that eight (8) acquisitions are left. Seven of these are for offers already made to landowners. Problem – Burr Street is not creditable. Dan said that at the 1/16/02 meeting in Indianapolis he was told once again that no invoices for Burr Street will be honored. Legislators expect him to go to Gary and get its support. Dan and Lou will meet with Jim Meyer, Attorney for Gary, to explain and discuss the "environmental justice" aspect of the problem.
   (ACTION: Dan and Lou/LCRBDC)
c. Stages V and VI – Judy reported that no offers are going out on Stage V-2. It is not a priority, however, Stage VI-1 is. Sixteen offers (16) offers went out last week to the East Reach Remediation Area and to Stage VI-1.

7.) **STATUS OF COST-SAVINGS FOR KENNEDY INDUSTRIAL PARK**
Jim and Jim Flora have presented a cost-savings plan to the Corps to possibly avoid taking large easements behind the 20 corporate landowners in the Kennedy Industrial Park. Imad reported that the Corps has reviewed their suggestions and will discuss the issues at an engineering coordination meeting on 1 February 2002.

(ACTION: COE and LCRBDC)

8.) **MATCH LINES DO NOT ON STAGE VI-1 AND VI-2 DRAWINGS**
Judy reported that the match lines on mapping for Stage VI-1 and Stage VI-2 do not "match." In one instance one lot is separated in the middle, one side on Stage VI-1 and the other side in Stage VI-2. Imad said engineering was having a problem deciding where to draw stage boundaries. He will speak with Murphy O'Reilly in engineering before O'Reilly is transferred to his next assignment.

(ACTION: Imad/COE)

9.) **MITIGATION – HOBART MARSH UPDATE**
a. A discussion was held about the "Phil Bernstein Letter to Dan." Imad said he had not read the letter before it went out. LCRBDC staff agreed that a response is required.

(ACTION: LCRBDC)

b. Dan reported that Shirley Heinz Environmental Foundation (SHEF) is having a meeting on 24 January and will discuss whether their initial 200 acres should be donated to the Little Cal or require re-imbursement from the Little Cal. President of SHEF Ron Trigg will speak with Dan on the 25th of January about SHEF's decision and Dan does not have high hopes for a positive outcome. He does, however, feel confident that cooperation with the DNR and the National Lakeshore are definite possibilities. The Hammond Park Department may also have some land available for mitigation.

(ACTION: Dan/LCRBDC)

c. A conference call will be held on 25 January with Deb Lawrence and land acquisition staff from the DNR to formalize their cooperation.

10.) **NEXT MEETING**
21 February 2002, 9:30 am, LCRBDC offices
January 30, 2002

Programs and Project Management

Mr. Dan Gardner, Executive Director
Little Calumet River Basin Development Commission
6100 Southport Road
Portage, Indiana 46368

Dear Mr. Gardner,

As requested in your letter dated 6 December 2001, our Engineering Staff has reviewed the Tentative List of Cost Savings Items reviewed by your Engineering Committee. The responses include an evaluation of the proposal by the various technical specialist, as well as recommendations and further technical requirements to implement the suggested changes.

I would suggest that once your Engineering Committee and staff members have had a chance to review the responses prepared by our technical staff, that you contact me at 312-353-6400 ext. 1809 so that we can set up a meeting to discuss these items.

Sincerely,

[Signature]

Imad N. Samara
Project Manager

Enclosures
Summary of Recommendations/Issues

A synopsis of the Chicago District Review of the Conceptual VE study presented by the Little Calumet River Basin Development Commission’s Engineering Committee is presented in the first two pages of this response. The following pages include detailed responses from the technical disciplines on each of the four VE issues.

VE Issue (1)—Stage VI. Realignment of levee with possible levee construction in the channel, with possible dredging, with possible material removal from the Old Highland Dump.

Summary of Recommendations
(1) Construction of a levee section into the channel is not recommended based on several factors:
- Steepness of the existing banks and channel slopes.
- Fill into or dredging of the channel would require permits and likely new NEPA coordination.
- Sediment is polluted and may require special handling (including de-watering) prior to disposal in a landfill. Extensive testing may be required for dredging as well as disposal.
- Disposal costs are local sponsor costs.

(2) Intrusion into the Old Highland Dump site is not recommended based on several factors:
- Groundwater contamination was determined based on recent testing at the site (QST/COE 1997)
- Material removed may require special disposal.
- Disposal costs are local sponsor costs.

VE Issue (2)—Stage VIII Levee Alignment.

Summary of Recommendations
(1) Recommend that the 4 homes west of Hohman Avenue be removed from consideration within this study, as this issue is already being addressed through separate correspondence with the Commission.

(2) Do not concur that levee behind Southmoor homes should be replaced by fill to bring the embankment height up to the top of levee elevation.

(3) Concur that the levee alignment/choice of materials for Stage VIII should be re-evaluated and other reasonable options considered.

VE Issue (3) — Stage V-2, Woodmar Country Club — tie-back levee and easements instead of riverbank levee.
Summary of Recommendations/Issues

Summary of Recommendations
The VE concept may warrant further investigation by the Sponsor's Committee, but there may be little or no cost savings associated with this plan. 
(1) Tie-back levees of around 1 mile would be required to replace the riverbank levees.
(2) Real Estate would be required from Woodmar CC to construct the tie-back levees.
(3) A flowage easement would likely be required up to elevation 604 - the height of induced flooding with the project and Control Structure in Place.

VE Issue (4) Clay Borrow.

Summary of Recommendations
(1) Concur with the recommendation to utilize Doughman borrow site with reservations noted in enclosed detailed responses.
CONCEPTUAL VE COMMENT, RESPONSE, RESOLUTION

VE Issue 1

PROJECT: Little Calumet River, Indiana

PRODUCT: Recommendations from LCRBDC Engineering, Technical Committee.

LOCATION: Stage VI-1, north and south levee alignments

Reference: Map #1

Comment/Suggested Action:
(3) Relocate the levee into the channel on the north side, and excavate into the south side to maintain a consistent channel cross section. What is the critical channel width? Would soil borings of Highland Dump be required to determine if we could re-channel without disturbing landfill materials?

Response:
PDT Member: Leslie Bush (ED-GT)
Slope stability concerns will increase when the levee alignment is moved toward the river due to the presence of steep riverbanks along several portions of this reach, and (due) to the general, soft organic consistency of the surficial riverbank deposits.

Similar concerns pertain to moving the bank into the river. Excavation of the south side can induce potential slope instability especially where there is minimal room between residential structures and the river (i.e. at the end of North Drive, Kenwood Avenue and Duluth Avenue). Excavation of the south riverbank will raise other issues (e.g., disposal site and hauling costs, testing of sediments, adverse consequences if the sediments are not "clean").

Soil borings taken in 1991 along the initially proposed levee alignment and located adjacent to the south riverbank verified the presence of a landfill. Based on the results of the 1991 borings, the landfill appears to be about 15 feet thick. In several areas, the portion of the riverbank slope near the water’s edge is essentially vertical. Trash and other debris was observed protruding from the river bank in many areas.
Recommendations:
PDT Member: Leslie Bush (ED-GT)
(3) Consider other alternatives to shifting the levee alignment into the river channel, such as, incorporating the use of sheet piling and additional impervious fill to bring existing embankment to a design flood elevation, as well as provide continuous access along the alignment for O&M maintenance and flood fighting.
(2) Minimize fill and excavation in the channel
(3) Due to the presence of landfill materials and associated environmental issues, do not excavate into the south riverbank at the Old Highland Dump. Retain the current levee alignment.

Technical Requirements:
(3) In the event of moving the levee toe towards or into the river, slope stability analysis will be required to evaluate riverward slopes. Soil borings and laboratory testing will likely be required in some areas.
(2) Reinforced earthen embankment (sheet pile & impervious fill added to existing levee) designs would need to be developed.
(3) Evaluation of potential disposal sites required for material excavated from the channel or the south river bank in the vicinity of the Old Highland Dump. Disposal costs are part of LERRD's.
(4) Geotechnical design analyses would need to be performed for any alignment change to evaluate levee foundation conditions and embankment seepage and settlement conditions, in addition to stability concerns. Structural design analyses would need to be performed for the floodwall alternative.
(5) Evaluation of structural interaction and stability will be required for the options of incorporating sheet piling into existing embankment structures and use of a floodwall.

Response:
PDT Member: Susanne Davis (ED-HH)

Relocation of the north levee in this reach into the channel generates a number of concerns in terms of the channel cross section. Because of the steep in-stream slopes, and the great depth of the channel invert, it would be difficult to construct the levee along the north bank
without a great deal of fill. Even then, as noted by ED-GT, there would be concerns about the levee slope stability. The addition of a large amount of fill into the channel would require excavation of a similar volume on the south bank. In some reaches, specifically at the west end of this reach, there is insufficient area available on the south bank to serve as compensatory area. A cross section plot of the channel (from the UNET hydraulics model is attached.) Utilizing the existing cross section plot, a typical levee section was overlayed (enclosure 1) to illustrate the increased fill and excavation volume requirements associated with this alternative.

Recommendations:
PDT Member: Susanne Davis (ED-HH)

(3) Fill into and excavation of the channel is not recommended.

Technical Requirements:

If an alternative levee alignment which places the north levee into the channel, and requires removal of material from the south bank of the Little Calumet River, then the following steps would need to be taken.
(1) Obtain detailed cross section data from Cline Avenue to the SE Hesseville discharge in those reaches where realignment will be considered. Section should be obtained every 500 feet.
(2) Develop new cross sections for the UNET hydraulics model that contain the fill and cut information associated with the new alignment.
(3) Run the UNET model simulations for a range of with-project and with-modified project conditions to determine the impact of the alignment change, if any, on project performance.
(4) Optimize the configuration of the channel cross sections in order to minimize any impacts on project performance.
(5) Revise O&M Manual to include periodic dredging in this reach in order to maintain the optimal project cross section.

Response:
PDT Member: Kirston Buczak, Don Walsh, (ED-HE)
As noted in the revised HTRW assessment include in FDM 5, Appendix H, there are a number of concerns associated with excavation at the Old Highland Dump Site, as well as the dredging and disposal of channel sediments. In addition to the technical issues regarding the quality of the materials to be excavated, the proposed modifications to the levee alignment (i.e. move the levee into the channel on the north side, and remove material from the south, including the old Highland Dump Site) would require modification of the EIS, including review, and the procurement of appropriate state permits for fill placement and dredging operations.

Issue (1) - Sediment Quality.

Based on assessment of sediment quality (SEECCO, 1979), the channel sediments in the reach between Cline Avenue and the SE Hesseville discharge contain heavy metals, Volatile Organic Carbons, and pesticides, Chlordane and Heptachlor Epoxide. The presence of these pollutants would likely require handling, dewatering and disposal. The sediments would likely need to be dewatered in a controlled manner that included capture and treatment of the effluent prior to disposal. Real Estate would need to be obtained for the sediment dewatering operation.

Issue (2) - Excavation into the Old Highland Dump.

Based on the HTRW report, the Old Highland Dump was an unregulated landfill for approximately 20 years. Over time, municipal as well as industrial waste was dumped there. Samples taken from the landfill in 1997 show that numerous contaminants are present in the groundwater at the landfill including Cadmium, Arsenic, Chromium, Mercury, and Benzene. (QST, 1997) The levels of these contaminants violated IDEM's residential and non-residential use standards. Material excavated from the bank along the dump might be classified as special waste, which would require special disposal.

Also, any excavation at the landfill would need to be carried out in such a way as to minimize any erosion into the channel (in accordance with a fully approved Storm Water Pollution Prevention Plan). Erosion protection will have to be installed, and because of the steepness of the existing bank, the erosion protection will be difficult to install and maintain.

Technical Requirements:
(3) If dredging will occur, current sediment sampling and analysis (chemical, physical characteristics, and biological toxicity testing would be required in order to determine the appropriate dredging, disposal and dewatering techniques. Also, this information would be required for the additional permits required.

(2) If the material is removed from the Old Highland Dump, an appropriate HASP would be required. Since the Old Highland Dump is currently capped, it is unlikely that the excavated material could be disposed of onsite. Sampling and testing of the excavated material would be required in accordance with the disposal landfill's requirements. If levels of contaminants in the excavated material are high, then the material may need to go to a special waste landfill. Disposal costs are part of LERRD's.

Recommendations for further Study:

(3) Assess the potential for utilizing a sheetpile and impervious fill core and the existing riverbank levees.

(2) Evaluate the locations on the north and south bank where this change in the levee configuration is applicable.

(3) Determine the cost for the revised levee configuration in terms of increased construction versus reduced real estate costs.
CONCEPTUAL VE COMMENT, RESPONSE, RESOLUTION
VE Issue 2

PROJECT: Little Calumet River, Indiana

PRODUCT: Review

LOCATION: Stage VIII - Illinois-Indiana Stateline to Columbia Avenue

Reference: Map #2A

Comment/Suggested Action:
A. Reconsideration of the acquisition and/or flood protection design west of the former L&N RR (West Lake Corridor) and north of I-80/94.
B. Facts and Questions to be addressed.
1. Facts to be considered:
   > Illinois levee crest is 598.0
   > Proposed Indiana levee at 601. End around flooding from Illinois is possible from state-line to L&N embankment.
   > Table 1 from FDM 5.
2. Questions:
   > Schedule for completion of CMD and Thorn Creek Reservoir compared to Stage VIII?
   > Any plans to raise the Illinois Levees?
C. Minor river channel realignment to allow use of earthen embankment rather than floodwall (Stage VIII and others?)
   > Harrison Street - realign the north levee and eliminate over 500 feet of I-wall on the south levee.
1. Facts to be considered:
   > Typical levee ($400/lf) v. Typical floodwall ($1500/lf)
   > It appears that by minor shifts in the river channel, sheet pile could be replaced by earthen levee.
2. Questions:
   > If the channel is shifted, is there adequate space to construct earthen levee rather than sheet pile wall?
   > What is required to shift the channel? Permits needed?
   > What is the potential savings if change to earthen levee is implemented?
Response/Action Taken:

PDT Member: Leslie Bush (ED-GT)
A.  
(1) Foundation soil information provided in soil borings taken in this vicinity along the I-80/94 embankment toe during 1991 is not adequate to base a design evaluation of potential flood control structures to be located between the houses and the river. Foundation soil information would be required.  
(2) With respect to the Southmoor Section, foundation preparation will dictate the removal of all vegetation along the riverbank for this option. The existing, tall, steep hillslopes between Southmoor residents and the river will dictate the import of substantial quantities of material for an earthen levee option. Constructibility issues may be more complicated for an earthen versus floodwall structure in Southmoor.

Recommendations:  
PDT Member: Leslie Bush (ED-GT)  
For the Southmoor section, consider other alternative to use of an earth levee such as incorporating the use of sheet piling and impervious fill to bring existing embankments up to a design flood elevation.

Technical Requirements:  
PDT Member: Leslie Bush (ED-GT)  
(1) Subsurface investigations through the use of soil borings and laboratory testing would be necessary in the Southmoor and Harrison Street vicinity.  
(2) Geotechnical design analyses would need to be performed for any alignment change to evaluate levee foundation conditions and embankment seepage and settlement conditions, in addition to stability concerns.  
(3) Evaluation of structural interaction and stability will be required for the options of incorporating sheet piling into existing embankment structures and the use of a floodwall.

Response/Action Taken:  
PDT Member: Susanne J. Davis (ED-HH)  
A. Acquisition of the four homes west of Hohman, as included in FDM 5, was based on concerns for safety of the
residents and rescue personnel during a large rainfall event. These concerns were raised by the Community and the Local Sponsor during the completion of FDM 5. Currently, a surveyor has been secured to survey the profile of River Drive as well as each driveway. Elevation data will be used in further assessment of the safety issues associated with the structures. This issue will be handled through separate correspondence from Project Management.

Regarding the elimination of a constructed floodwall at Southmoor and replacement with minimal fill to regrade the backyards to the top of proposed levee height. Less than full level of protection (provided by a designed levee to the full freeboard height) will provide these residents with a lower level of protection from riverine flooding than the remainder of the project.

B. (1) Facts. Facts are noted. ED-HH has consistently advised that there will be end around flooding from Illinois when the Illinois levee is overtopped. (See FDM5 and FWPP). Completion of the Thorn Creek Reservoir project reduces the impact of the lower Illinois levees, however, freeboard is only maintained at 0.8 feet above the 200-year from end around flooding (Table 1, FDM5, Main Report).

(2) Questions.
  ▶ Thorn Creek Reservoir (Stage I) is under construction and expected to be online in late 2002. Cady Marsh Ditch project is under design at present.
  ▶ There are no plans to raise the Illinois levees. There are, however, issues with the structural integrity of some of those levees that need to be addressed with improved maintenance. (J. McHenry, 1994). The bottom line - the level of protection at the state line may be at or below 598 ft NGVD depending on the reliability of those levees.
  ▶ The State of Illinois is pursuing remapping of the Little Calumet River (Illinois) Flood Plain based on the operation of the Thorn Creek Reservoir project. As noted, rehab/maintenance of the Illinois levees is also an issue with the flood plain remapping that will be pursued once the Thorn Creek Reservoir is online.

C. Minor Channel realignment to allow the use of earthen embankment versus floodwall.
(1) Facts: Concur that there is a large difference between earthen levee and floodwall costs. Additional evaluation would be required before it can be determined if there
would be net cost savings from moving channel and relocating the levee.

(2) Questions:

➢ This question would need to be addressed on a case by case basis, utilizing cross section cuts as well as the plan views included with this proposal, to determine if there is sufficient space for an earthen cross section. Other issues that must be considered are real estate constraints as well as the constructability. We concur that there is merit in re-evaluating the levee/floodwall determination in Stage VIII.

➢ As discussed in response to the first VE issue (Stage VI), the sediments in the Little Calumet River would likely require special disposal. Permits would be required for dredging into the channel as well as for disposal or any material (this includes levee construction) into the channel. The local sponsor would have to apply for the permits. It is also likely that another Supplemental EIS would need to be prepared which would include public comment and review periods.

➢ What are the potential savings? Calculations of the changes in the alignment would need to address the cheaper earthen section, but would have to include redesign costs, additional coordination costs, and dredging, disposal, and dewatering costs.

Recommendations:

PDT Member: Susanne J. Davis (ED-HH)

(1) Review the selection of the type of protection (i.e. earthen levee vs. concrete floodwall) in Stage VIII, based on cross section information as well as plan views.

(2) Determine if there will be an encroachment beyond the existing levee cross section into the conveyance area with a revised (earthen) section. The revised section should take into account drainage swales and/or sewer connections as coordinated with the Town of Munster.

(3) Encroachment of the levee section into the channel should not be pursued.

Technical Requirements:

PDT Member: Susanne J. Davis (ED-HH)

(1) Changed cross section/levee alignments must be checked to insure that there is no reduction in the conveyance area
CONCEPTUAL VE COMMENT, RESPONSE, RESOLUTION
VE Issue 3

PROJECT: Little Calumet River, Indiana

PRODUCT: Review current levee alignment

LOCATION: Stage V-3 (Woodmar Country Club)

Reference: Map #3

Comment/Suggested Action: Review current levee alignment.
A. Facts:
(1) Acquisition of Woodmar will be extremely expensive
(2) Levee construction will disrupt golf course operation for almost 18 months.
B. Questions:
(1) Is project flood protection needed for the golf course? How many days per year is the course flooded versus the estimated days it will shut down for levee construction? Note: The 100 year flood (595.1) goes approximately ¼ mile from the river, approximately 2/3 of the way to the clubhouse.
(2) From a project standpoint, would it be cheaper to construct tie-back levees on the east and west side of Woodmar and pay Woodmar for slightly increased flood elevations and durations?

Response/Action Taken:

PDT Member: Leslie Bush (ED-GT)
(1) General geotechnical design analyses would need to be performed to evaluate levee foundation conditions and embankment stability, seepage and settlement conditions.

Recommendations: None

Technical Requirements:
(1) Perform subsurface investigations through use of soil borings and laboratory testing, and perform geotechnical design analyses and make associated levee cross-section design recommendations.
Response/Action Taken:

PDT Member: Susanne Davis (ED-HH)

Reconstruction of the levee located on the Woodmar Country Club serves two project purposes. First, as noted in the VE proposal, the levee protects the golf course from damages associated with flooding (i.e. lost playtime, damage to the course, etc.). In addition, because of the proximity of the confluence of Hart Ditch and the Little Calumet River, the Control Structure is located in this reach of levee. As noted in FDM 5, (1994) and the Phase II GDM, (1986) the Control Structure minimizes downstream impacts to the State of Illinois. Without the inclusion of the Control Structure as a project feature, flows, flood volumes and flood stages downstream of the project exceed regulatory constraints. Installation of tie back levees around Woodmar could facilitate construction of the Control Structure. However, those levees would need to extend to elevation 604.9 on the upstream end and 604.0 on the downstream end of the control structure. This would require construction of the tie-back levee ranging in height from 6 to 12 feet (without overbuild for settlement), with a footprint of 40 to 70 feet along the east side of Northcote (presumably on the Woodmar side of the residences) and along the abandoned L&N RR embankment. Based on the site topography, these levees would tie into the I-80/94 embankment.

Regarding concerns about the impact of construction on the golf. Construction of the levee project within Woodmar may be possible within a single construction season, thus reducing the potential impact from 18 months (as noted above) to 9 months (March to November). The contract would have to be awarded far enough ahead of the start of the construction season so that the contractor would be ready to start construction at the beginning of the season.

Recommendations:

PDT Member: Susanne Davis (ED-HH)

(1) Replacement of the riverine levees with tie-back levees would require a tie-in at the I-80/94 embankment. This would result in nearly 1 mile (5,100 feet) of embankment.
There would be significant impacts to the functionality of the Country Club.

Technical Requirements:

PDT Member: Susanne Davis (ED-HH)

(1) The tie-back levees would need to be layed out on current topographic mapping. The project mapping currently does not extend upland away from the levee alignment, so new mapping would need to be developed, consistent with the remainder of the project mapping.
(2) Revised Real Estate drawings would need to be developed to determine the requirements for the tie-back construction as well as the limits of the flowage easement which will extend to elevation 604.0 ft NGVD (the elevation of induced flooding).
(3) Develop a cost comparison between the existing levee construction plan and the proposed tie-back with larger flowage easement.
CONCEPTUAL VE COMMENT, RESPONSE, RESOLUTION
VE Issue 4

PROJECT: Little Calumet River, Indiana

PRODUCT: Clay Borrow

LOCATION: Clark & north of Ridge

Reference: VE proposal

Comment/Suggested Action: Utilize clay borrow from the Doughman site for the remainder of the project.

Response/Action Taken:

PDT Member: Leslie Bush (ED-GT)
(1) Based on the use of numerous quantities of clayey soil from this site, it is known there are occasional pockets of silt and wet clayey soils. These conditions are manageable by not accepting the silt and using earthwork techniques to reduce the moisture of the soils during placement.
(2) Standard borrow material selection laboratory testing will be required per construction contract to verify the proposed are of borrow material satisfies levee material criteria.
(3) It is likely that Mr. Doughman will willingly expand the lateral extent of the borrow site, should the clay quantity requirements increase (i.e. levees replace floodwalls.)

Recommendations: Maximize use of this site.

Technical Requirements: Perform a subsurface investigation through use of soil borings and laboratory testing to verify the existence and engineering properties of the potential clayey soils (borrow) for the remainder of the project.

Response/Action Taken:

PDT Member: Imad Samara (PM-PM)
We concur that having an established borrow site similar to Big Maple Lake has the potential to reduce project costs.
In order to accomplish this, the sponsor has been advised by Project Management to obtain an easement for the Doughman property. The government cannot require a contractor to purchase material from a single source, however, if an easement was procured, then the government’s contractor could be directed to removed the clay from that location. The landowner would be receive compensation based on before and after appraisals performed for the easement.

**Recommendations:**

If all of the technical requirements (see comments from Leslie Bush, above) including an HTRW assessment have been meet and the local sponsor obtains an easement to allow the COE contractor to remove the clay, then we recommend that this VE proposal be accepted.
CONCEPTUAL VE COMMENT, RESPONSE, RESOLUTION

PROJECT: Little Calumet River, Indiana

PRODUCT: Review

LOCATION: All

Reference:

Comment/Suggested Action: Proposed VE study to be performed by the Local Sponsor

Response/Action Taken:

PDT Member: Bob Behrns ED-DC

The Local Sponsor at this point has not identified an appropriate VE team to conduct this study. The disciplines that the Corps requires for its team are senior level individuals in the following areas: one certified value specialist, geotechnical engineer, environmental engineer, civil engineer, and cost engineer. It is imperative that all study team members have significant experience and be well-versed in hydrology, wetlands and civil design. Any soil borings and soil samples taken shall meet Corps standards in order to be acceptable. Concur with Sue Davis' comments.
CREDITED
Cash escrow – construction $6,363,000
IDNR properties $1,225,000
Commission lands $1,559,678
Engineering/survey credit $760,829
Utility Relocation (thru 1999) $922,011
Borrow Sites $144,910
Legal costs $575,745
Administrative credit $597,396
$12,148,569

CURRENTLY SUBMITTED/UNDER REVIEW
Commission lands (by Lorraine) $811,727
Engineering/Real Estate costs-submitted
To Chrystal on 10/30/01 (thru 00) $345,108
Administrative (by Sandy) $273,944
$1,430,779

CREDITED
SECTION 104 $1,667,200
$1,667,200

NON-CREDITABLE ITEMS
Base Capital invested $700,000
Burr Street escrow $1,703,000
Burr St. costs incurred $406,049
Misc. Betterment escrow $191,000
(Lake Etta & Deep River)
IDNR expenditures $4,715,650
Marina costs incurred $1,069,000
Lake Etta costs incurred $568,478
$9,353,177

TO BE RE-SUBMITTED
Borrow Sites (difference of what we submitted & what you credited) $35,040
Difference on Hohman Avenue pumping (Sec.104) of what they spent & what you credited $290,762
$325,802

DENIED CREDIT
Property Liability Insurance $254,591
COSTS NEEDING TO BE REVIEWED
Highway Bridge issue $ 7-8 million
Burr Street Betterment Levee $ 4.5 million

TO BE SUBMITTED IN THE FUTURE/
CURRENTLY BEING DOCUMENTED
Environmental costs
Partial maintenance
Recreation costs
Land capital improvements
IDNR gaging stations
NIPSCO pumping charges
Dan's salary
Sandy's salary
Overhead

February 7, 2002
CREDITED
Cash escrow – construction $6,363,000
IDNR properties $1,200,000
Commission lands $1,212,654
Administrative/engineering credit $1,684,903 (Since last update)
Utility Relocation (thru 1999) $922,011
$11,382,568

CREDITED
SECTION 104 $1,667,200
$1,667,200

NON-CREDITABLE ITEMS
Base Capital invested $700,000
Burr Street escrow $1,703,000
Burr St. costs incurred $406,049
Misc. Betterment escrow $191,000
(Lake Etta & Deep River)
IDNR expenditures $4,715,650
Marina costs incurred $1,069,000
Lake Etta costs incurred $568,478
$9,353,177

CURRENTLY SUBMITTED/UNDER REVIEW
Commission lands (by Lorraine) $428,417
Administrative (by Sandy) $233,146
Engineering/Lands submitted (thru 99) $558,159
Survey costs submitted (thru 99) $119,089
Property Liability Insurance $254,591
$1,593,402

TO BE RE-SUBMITTED
Borrow Sites (difference of what we submitted & what you credited) $35,040
Difference on Hohman Avenue pumping (Sec.104) of what they spent & what you credited $290,762
$325,802

COSTS NEEDING TO BE REVIEWED
Highway Bridge issue $7-8 million
Burr Street Betterment Levee $4.5 million

11-1-01
LAND ACQUISITION REPORT
For meeting on Thursday, February 73, 2002
(Information in this report is from December 27, 2001 – February 2, 2002)

STATUS (Stage II Phase I) – Harrison to Broadway – North Levee:

STATUS (Stage II Phase II) – Grant to Harrison – North Levee:
1. Project completed December 1, 1993

STATUS (Stage II, Phase 3A (8A) – Georgia to Martin Luther King – South Levee:

STATUS (Stage II, Phase 4) – Broadway to MLK Drive – North Levee:

STATUS (Stage II, Phase 3B) – Harrison to Georgia – South Levee:
1. Project currently 98% complete.
2. Additional land will be required to temporarily extend a recreation trail along both the sidewalks east and west of Broadway to allow recreation trail continuation. (Refer to Recreation Report.)
   • Upon completion of I.U. Northwest modifications on, and adjacent to, Broadway, we will install a permanent trail crossing south of the river and along the line of flood protection, as originally proposed by the COE.

STATUS (Stage II, Phase 3C2) – Grant to Harrison:
1. Completion and turnover of O&M manuals was done on November 21, 2000.
2. The re-location of the recreation trail would require agreements with the city of Gary to be able to cross Grant St. at the light at 32nd Ave.
   • We will be receiving a letter from the COE requesting that we postpone Broadway and Grant Street recreation trail re-locations, and that they be included in the next recreation contract. (See Recreation Report.)
   • A meeting was held on April 12, 2001, to review our proposals for trails at Broadway & East of Grant. (See Recreation Report)
   • We received a response from the city of Gary on July 11 (From Roland Elvambuena, City Engineer) indicating their concurrence to our proposed re-location. (Refer to Recreation Report).

STATUS (Stage III) – Chase to Grant:
2. Final acquisitions for flowage easements east of Chase and north of the river are ongoing (DC209 to DC213). Appraisals are being reviewed by COE.
   • A letter was sent to Otho Lyles (DC213) on January 10, 2002 instructing him to clean up all various and sundry materials he illegally dumped prior to our acquisition.
   • A list of these items to be addressed for this process were sent to Attorney Spivak on January 17, 2002.
STATUS (Stage III) – REMEDIATION
Pumping west of Grant Street
1. We received a request for ROE from the COE on January 8, 2002.

STATUS (Stage IV – Phase 1-North) – Cline to Burr (North of the Norfolk Southern RR):
1. Construction is complete. Final inspection was held on August 30th, 2001, with minor turnover items & “as-built” drawings due to the LCRBDC.

STATUS (Stage IV – Phase 1-South) – Cline to Burr (South of the Norfolk Southern RR):
1. Bids were reviewed and Dyer Construction is the contractor. Work started on May 23rd, 2000 – 450 days to complete project. Project currently 85% complete.

STATUS (Stage IV – Phase 2A) – Lake Etta – Burr to Clark:
1. Construction is complete.

STATUS (Stage IV – Phase 2B) – Clark to Chase:
1. Construction is complete.

STATUS (Stage V – Phase 1) – Wicker Park Manor:
1. Project completed September 14, 1995

STATUS (Stage V – Phase 2) – Indianapolis to Kennedy – North Levee:
1. Wicker Park appraiser John Snell has received the hydrology information from the COE.
   - Mr. Snell made last visit to Wicker Park in week of 1/14/02. Letter was sent 1/31/02 to finish appraisal so LCRBDC can submit for COE review.
2. North Township owns the property west of Hart Ditch to Hawthorne Street. North Township has mentioned a possible relocation of the levee onto this parcel.
   - Meeting was held on 7/19/01 with COE, Munster, and North Township trustee Greg Cvitkovich. COE is reluctant to relocate the levee due to re-design costs.

STATUS (Stage V – Phase 3) – Northcote to Indianapolis – (Woodmar Country Club):
1. Woodmar preliminary figures are in from appraiser Dale Kleszynski. Since Woodmar Construction is 2-3 years in the future, Woodmar acquisition is not a priority.

STATUS (Stage VI-Phase 1) – Cline to Kennedy – North of the river, and Kennedy to Liable – South of the River:
1. We sent a letter along with information to the COE on December 6th, 2001, requesting their review of our proposals for cost savings issues. Engineering review meeting was held on 2/1/02. Results to be discussed at Commission meeting.
2. A letter was sent to Krosan Enterprises on November 28th, 2001, requesting information on how much area they need for traffic flow south of their building. No response to date.
3. Dale Kleszynski, appraiser of Kennedy Industrial Park, met with LCRBDC on December 26th, 2001. He was informed of the 75’ easement and thinks that acquisition costs will be considerably reduced by using the easement figures.
4. Ten (10) offers to landowners were sent in January 2002.
STATUS (Stage VI – Phase 2) Liable to Cline – South of the River:
1. We had a recreation coordination meeting with Highland and Griffith to determine trail relocation which allow us to cross at Cline Avenue at Highway Avenue. (Refer to Recreation Report)
   • A field meeting was held with Griffith on June 27th, 2001, to review possible routes East of Cline. Information will be provided to the COE to review and implement.

STATUS (Stage VII) – Northcote to Columbia:
1. A public meeting for affected landowners was held scheduled for Wednesday, January 30th, 2002, 6:30 pm at the Wicker Park Social Center in Highland. In spite of snowy weather, 81 were in attendance. Times and Post Tribune covered the meeting.

STATUS (Stage VIII – Columbia to State Line (Both Sides of River))
1. A public meeting was held November 28th, 2001, at Wicker Park Social Center for landowners and those adjacent owners affected by the project. Several landowners in Stage VIII attended the Stage VII meeting.
2. Rights-of-entry were mailed on 1/8/02 to the four landowners west of Hohman. The R/E's will allow COE to conduct topography and structural studies to eliminate or floodproof the houses. All R/E's were returned and sent to COE by 1/24/02.

STATUS (Betterment Levee – Phase 1) E.J. & E. Railroad to, and including, Colfax North of the NIPSCO R/W – Ditch is South of NIPSCO R/W from Arbogast to Colfax.
1. Construction has been completed and the final inspection was held on August 30th, 2001. Minor turnover items and "as-built" drawings are due to the LCRBDC.

STATUS (Betterment Levee – Phase 2) Colfax to Burr Street, then North N.S. RR, then East (North of RR R/2) ½ between Burr and Clark, back over the RR, then South approx. 1,400 feet:
1. Acquisition deadline of October 2001 has been extended to summer of 2002.
2. Appraisal addendums for two corporate landowners – Mansard Apartments and I-80/94 Auto Parts are complete. Offers, however, will not be sent because Burr Street levee costs are not creditable.

EAST REACH REMEDIATION AREA – (NORTH OF I-80/94, MLK TO I-65):
1. LCRBDC sent a letter to attorney on 10/16/01 to begin acquisition of properties on the tax sale. Attorney sent letter to Lake County Commissioners on 11/29/01 requesting 10 properties.

MITIGATION
1. We received a letter from Shirley Heinze president, Ron Trigg, on 1/24/02. It seems that the 200 acres are off the negotiating table but SHEF would like to work with us on acquiring new properties in the Hobart Marsh area.
2. We received a request for ROE for "in project" lands from the COE on 1/8/02. Acreages listed on the ROE maps do not define permanent and temporary work area easements. We have asked the COE to give us those dimensions before we sign the ROE.
January 10, 2002

Via Certified Mail

Otho Lyles
1843 West 15th Avenue
Gary, Indiana 46404

Otho Lyles
C/o Calvin D. Hawkins
Attorney at Law
P.O. Box M859
4858 Broadway
Gary, Indiana 46401

Clean Earth, Inc.
2927 Chase Street
Gary, Indiana 46404

RE: Lots 12 and 13 Rolleston Club – First Edition, Lake County, City of Gary:
Commonly Known as 2927 Chase Street, Gary, Indiana 46404

Dear Mr. Lyles:

I am attaching a copy of the letter which I sent to you on May 24, 2001 in relation to the above referenced properties. In addition to the issues addressed in that May 24, 2001 correspondence, I would also like to bring to your attention the following:

As you will recall, on October 30, 2000, the Little Calumet River Basin Development Commission was contacted by a Mr. Lampret from the Indiana Department of Environmental Management informing them that sections of railing along Chase Street, which were adjacent to Lots 12 and 13, had been removed, broken down and then a culvert had been placed in the adjoining ditch which allowed access to the subject properties. In addition, a large backhoe was in the process of digging on those lots. Pursuant to subsequent investigation, it was determined that you had removed the railing, damaging same in the process, and that you were the individual responsible for placing the culvert in the ditch, and for the digging on the subject properties.

On November 3, 2000, I was contacted by the Gary Police Department and informed that you were on the site and that the officers had detained you there. I subsequently arrived at the site and you informed me that you owned the subject properties and produced a deed which had been executed by you transferring the
properties to Clean Earth, Inc. The Quit Claim Deed was recorded under Tax Key Nos. 49-443-12 and 49-443-13. On that November 3, 2000 date, you indicated to me that you were going to put a wood chipping facility on the subject properties, although the property was zoned R2, single family dwellings, and F1, flood plane. As I informed you on that November 3, 2000 date, your action of entering onto the property and placing the culvert in the ditch was in violation of the Agreed Order entered by the Court under Cause No. 45D04-9505-CP-00544, on September 16, 1997 where it was agreed that in order to prevent further dumping or placement of materials on the said properties, the culvert and access drive adjoining Chase Street was to be removed and a barrier of sufficient permanency was to be erected. This in fact was done, and as you can see from the attached photographs, a steel railing was placed along Chase Street. Without permission from the State of Indiana, or the City of Gary, you removed portions of that permanent railing and placed a culvert in the ditch. When you again removed the culvert, you placed all these items back onto the lots along with various and sundry other items.

As you are aware, the State of Indiana, Little Calumet River Basin Development Commission is in the process of acquiring flowage easements in this area and it is necessary to remove all these various and sundry materials from those lots prior to acquisition. Please contact my office within ten (10) days of receipt of this correspondence in order to make arrangements for the removal of those items from Lots 12 and 13. If I do not hear back from you within the prescribed time, my client has directed me to pursue these matters legally.

Please govern yourself accordingly,

Sincerely,

[Signature]

James M. Spivak

cc:    Judy Vamos
       Jim Pokrajac
OTHO LYLES (DC-213)
CLEAN-UP ON PROPERTY

Following are items that need to be addressed and/or coordinated with LYLES.

1. Have a preliminary meeting on the site to discuss all that is required to do.
2. Prior to starting any work, LYLES is required to obtain all necessary permits and pay any fees to the city, county, or state.
3. Remove and replace guardrails to gain access to this property — if the guardrail has been damaged from his previous access, he shall replace it in kind or pay the LCRBDC the equivalent amount for material, and the cost to install.
4. Temporary access may be required to cross the ditch to get to this property to remove culverts and materials illegally dumped.
   - Drainage ditch flow should not be interrupted and LYLES may temporarily use the culverts previously dumped on this property.
5. LYLES shall remove both concrete and CMP culverts, end sections, miscellaneous stone and debris as directed on site by the LCRBDC.
   - We are required by the Federal government to provide clean lands.
6. All material removed from the site shall be disposed of in a legal manner at a licensed landfill and Mr. Lyles shall provide manifest forms and pay for all disposal.
7. LYLES shall notify the LCRBDC at least 24 hours prior to starting this work in order to assure all material to be removed shall be removed.
8. After all material is removed, LYLES shall contact the LCRBDC for a site inspection.
9. No money will be paid to LYLES for his property until after the final site inspection is completed to the satisfaction of the LCRBDC.
10. All of this work shall be done no later than April 15, 2002.
DEPARTMENT OF THE ARMY
CHICAGO DISTRICT, CORPS OF ENGINEERS
111 NORTH CANAL STREET
CHICAGO, ILLINOIS 60606-7206

REPLY TO
ATTENTION OF:

January 8, 2002

Real Estate Division

SUBJECT:  Authorization for Entry for Construction and Attorney's Certification
Little Calumet River Flood Protection and Recreation Project
Mitigation and Stage III

Mr. Dan Gardner, Executive Director
Little Calumet River Basin Development Commission
6100 Southport Road
Portage, Indiana 46368

Dear Mr. Gardner:

Enclosed you will find a Right of Entry for the mitigation and a Right of Entry for Stage III; maps accompany the Rights of Entry. Please sign the Rights of Entry, have Lou Casale also sign the documents, and return them to me immediately. I will stamp a Department of the Army Civil Works number on them, and return a copy of each Right of Entry to you.

If you need any additional information or have any questions, please contact me at (312) 353-6400 Ext. 5002.

Sincerely,

Steve Hughes

Copies furnished:
Imad Samara, Project Manager
Chrystal Spokane, RE Team Lead
31 January 2002

Mr. John Snell
Snell Real Estate Evaluation Co., Inc.
Five Parkwood Crossing
510 East 96th Street  Suite 195
Indianapolis, IN 46240

Dear Mr. Snell:

RE: Completion of the Wicker Park Appraisal
Fax Delivered: 317-816-3393 (hard copy in mail)

Thank you for calling me on 1/25/02 and discussing the problems concerning the completion of the Wicker Park Appraisal. Thank you also for your patience in waiting for my letter.

As we discussed this letter respectfully asks you to complete the entire appraisal with the information you have and submit an invoice for the remaining balance. The appraisal will be forwarded to the Army Corps for review. The Army Corps Appraisal Reviewer, Chris Borton, will probably contact you directly if he has questions about the appraisal, however, if an update is needed in the future or if Corps plans are altered, I will contact you about changes.

If you have questions about my letter please call me at 219-763-0696. I send my grateful thanks for your cooperation, understanding, and patience on this assignment.

Respectfully,

Judith (Judy) Vamos, Land Acquisition Agent
Little Calumet River Basin Development Commission
January 15, 2002

Mr. Daniel Gardner
Executive Director
Little Calumet River Basin
Development Commission
6100 Southport Road
Portage, Indiana 46368

Re: 75-Foot Drainage Easement
Various Locations
Lake County, Indiana

Dear Mr. Gardner:

On December 26, 2001, I met with Ms. Judith Vamos of your office to discuss various issues related to the acquisition of property by the Little Calumet River Basin Development Commission. During the course of that meeting I was informed that a 75-foot “drainage easement” currently exists on all property within the project along either side of the Little Calumet River. Ms. Vamos requested that I determine if the easement has an identifiable value.

After completion of my initial research, I conclude that the “drainage easement” carries a monetary value that should be considered by the Army Corps of Engineers and the Little Calumet River Basin Development Commission. The extent of the value, however, would be determined by considering the rights of use associated with the easement and the analysis of the impact the easement has on the completion of the project. Although I cannot determine the value of the easement at this time, it is safe to say that the property (land) rights owned by the Little Calumet River Basin Commission through this easement have an identifiable value. If you have any questions please call.

Very truly yours,

Dale J. Kieszynski, MAI, SRA
President
Plan to strengthen levees unveiled

Steel sheet pilings used on waterway from Northcote to Columbia avenues

BY JIM MASTERS
Times Correspondent

HAMMOND — The Little Calumet River Basin Development Commission detailed a new plan to strengthen levees and control flooding along the river during a meeting Wednesday at the Wicker Park Social Center.

Dan Gardner, the commission's executive director, told the crowd of more than 100 that steel sheet pilings will be driven into the existing levee line along an area of the Little Calumet River running from Northcote to Columbia avenues.

He said the next phase of the flood control project represents a U-turn from the original plan to build a knee-high wall on top of the levee.

The flooding primarily concerned itself with the seventh phase of the project, which runs through Hammond, Munster and Highland. The eighth and final phase would take the project to the state line. Construction began in 1990 near Interstate 65 in Gary to protect more than 3,500 acres of land from flooding.

So far, approximately 12 one-mile segments have been completed.

An additional section in Highland was completed early after a devastating flood of the Wicker Park neighborhood in 1990 left residents unable to rebuild their homes until a flood plain restriction was lifted as a result of the levee's completion in that area.

Levees

Continued from B1

Gardner said the Federal Emergency Management Administration will lift flood plain restrictions as certain segments of the project are completed, and only then will residents no longer be required to purchase flood insurance.

However, progress is not going as fast as hoped because of a lack of state funds, which requires a 25 percent match to federal funds, Gardner said.

He encouraged those in the crowd to write their local legislators requesting funding in the upcoming biennial budget.

The commission received $5.5 million from the state during its last session, but $13 million is needed to get the project going west of Eighth Avenue, he said.

Because of funding issues, construction on the Northcote-Columbia phase wouldn't begin for another five to six years. In the interim, the commission will work to secure easements from land owners abutting the levees.

Residents expressed concern over how much of their backyards they would be required to give up.

Gardner said the loss would be minimal because the new plan will leave as much of the natural land amenities in place, and he pledged fair compensation to anyone who loses property. Also, easements required for construction would be returned to the property owners in the prior state.

Driving steel sheets into the levees on either side of the river would offer several benefits over the build-up of the levees, according to Melcy Pond, vice president of Earth-Tech Inc., the U.S. Army Corps of Engineers' consulting contractor for the entire project.

Aesthetics along the Little Calumet will be improved, as the plan calls for a walking path along the north side of the river and minimal impact on natural areas and animal habitats, Pond said. There would also be less property required to strengthen levees resulting in less impact to residents.

The cost of the entire project, which is currently estimated at $187 million, also will drop, she said.

To squelch some of the noise associated with driving the pilings into the earth, she said a vibratory hammer will be used, and its use monitored by a seismograph.

"We want to make this fair, and we want to make this as painless as possible," Gardner said.

During a question-and-answer session that followed the commission's presentation, residents asked how the levees could hold water back if they weren't going to any higher than they are now.

Inad Samara, the Corps' project manager, said the levees would be slightly higher. The strength of the sheet pilings is designed to be effective for at least 100 years and made to withstand a 200-year flood.

The existing levees just aren't strong enough, that those within the flood plain are on borrowed time, Gardner added.

Water flow down river will be diverted to Lake Michigan and the banks cleaned and obstructions removed. The new bridge over Indianapolis Boulevard is an example of improving a structure that was impeding water flow, Gardner said.

Bridging is not part of the overall plan, however.

Frank Macik, who resides on River Drive in Munster, said he preferred the plan to use sheet pilings, but he and his wife, Beverly, were still unsure how much land they could lose.

"I heard rumors that there were going to be bike paths on both sides of the river," Beverly Macik said. "I was relieved when I heard it was only going to be on the other side."
10 January 2002

Mr. Terrence Savage
27 River Drive
Munster, IN 46321

Dear Mr. Savage:

RE: Right-of-Entry for the Army Corps of Engineers

As we discussed on 4 January 2002 I'm sending you a Right-of-Entry (R/E) from and for the United States Army Corps of Engineers to conduct field studies on your property. The studies are for survey and exploration of topography and structures to determine the eligibility of your property in the Little Calumet River Flood Control and Recreation Project.

Please sign the attached Right-of-Entry at the arrow indicator and mail it back to me in the enclosed self-addressed stamped envelope.

After the Corps counter-signs the document I will mail you a completed copy.

I send my thanks for your cooperation and ask that you call me at 219-763-0696 ex. 113 if you have questions.

Respectfully,

Judith (Judy) Vamos
Land Acquisition Agent
Little Calumet River Flood Control and Recreation Project

Attachment
DEPARTMENT OF THE ARMY
Right-of-Entry for Survey and Exploration

Little Calumet River
Flood Control/Recreation Project
(Project, Installation of Activity)

Terrence Savage
27 River Drive
Munster, Indiana 46321
(Tract Number or Other Property Identification)

The undersigned, hereinafter called the "Owner", hereby grants to the UNITED STATES OF AMERICA, its representatives and contractors, hereinafter called the "Government", a permit or right-of-entry upon the following terms and conditions:

1. The Owner hereby grants to the Government an irrevocable right to enter upon the lands hereinafter described at any time within a period of 12 months from date of this instrument, in order to survey, make test borings, and carry out such other exploratory work as may be necessary to complete the investigation being made of said lands by the Government.

2. The permit includes the right of ingress and egress on other lands of the Owner not described below, provided such ingress and egress is necessary and not otherwise conveniently available to the Government.

3. All tools, equipment, and other property taken upon or placed upon the land by the Government shall remain the property of the Government and may be removed by the Government at any time within a reasonable period after the expiration of this permit or right-of-entry.

4. If any action of the Government's employees or agents in the exercise of the right-of-entry results in damage to the real property, the Government will, at its option, either repair such damage or make an appropriate settlement with the Owner. In no event shall such repair or settlement exceed the fair market value of the fee interest of the real property at the time immediately preceding such damage. The Government's liability under this clause may not exceed appropriations available for such payment and nothing contained in this agreement may be considered as implying that Congress will at a later date appropriate funds sufficient to meet any deficiencies. The provisions of this clause are without prejudice to any rights the Owner may have to make a claim under applicable laws for any other damages than provided herein.

5. The land affected by this permit or right-of-entry is located in the State of Indiana, County of Lake, and is described as follows: See maps attached hereto marked Exhibit A, and by reference made a permanent part thereof.

WITNESS MY HAND AND SEAL this _____ day of ________________, 2002

BY:

__________________________
Terrence Savage

UNITED STATES OF AMERICA

BY:

__________________________
January 24, 2002

Mr. Dan Gardner, Executive Director
Little Calumet River Basin Development Commission
6100 Southport Road
Portage, IN 46368

Dear Mr. Gardner:

The Heinze Fund is pleased to see progress being made in the mitigation project in Hobart Marsh, and I want to reiterate my organization's desire to be helpful in facilitating that process.

The Heinze Fund's role in the project will, however, have to be altered from that originally envisioned. We have been informed by the U.S. Fish & Wildlife Service that properties acquired with the use of federal funds under the North American Wetlands Conservation Act and those offered as match in the application for grants under the Act cannot be used for mitigation projects such as that proposed in Hobart Marsh. This effectively precludes the use of all major properties firmly under Heinze Fund ownership, i.e. But Oak Woods, Spangler, Cedano, Sammy.

We do, however, wish to demonstrate our commitment to mitigation in Hobart Marsh by serving as landowner for properties newly acquired for the project. To that end, I propose we resume negotiations on an agreement that would govern that relationship. We also note enthusiastically the similar offer made by the DNR as another positive step in moving this project forward. We look forward to accepting the Commission's offer to make its contracted real estate expert available to complete necessary land acquisition requirements and conduct negotiations.

I can assure you that Heinze Fund properties in Hobart Marsh will be maintained as natural areas, even though they may not be part of the mitigation project. We will continue to enhance these properties to the extent permitted by our resources and ability to acquire grants. We look forward to working together with the DNR, the National Lakeshore, and the Commission on long-term management issues for this important natural area.

Sincerely,

Ron Trigg
Executive Director

cc: Hon. Peter Vis欙sky, Jeff Viohl, Dale Engquist, Col. Mark Roncoli, Imad Samara, John Bacome, Bill Maudlin, Marty Maupin, Greg Moore

Dedicated to the Preservation of Land in the Indiana Dunes since 1981
LAND MANAGEMENT REPORT
For meeting on Thursday, February 7, 2002
(Information in this report is from December 27, 2001 – February 2, 2002)

NON-PROJECT LAND MANAGEMENT
A. Handicapped-Accessible Park
   1. The remaining segment of Charles Agnew Park will probably be completed next year and
      a dedication ceremony held in the summer.
B. Gleason Park-Driving Range
   1. A meeting was held with Gary Parks and Recreation on June 19th, 2001, to review and
      discuss scheduling, funding, and scope of work for a driving range North of 30th Ave.,
      West of Broadway.
      - We have received no correspondence about this issue from Gary Parks &
        Recreation.

PROJECT RELATED LAND MANAGEMENT
A. O&M (Project manual review/accepting completed segments)
   1. It is anticipated to start accepting levee segments (after inspections are completed
      and found acceptable) as early as February, 2002.
   2. The LCRBDC agreed that we would initially inspect and accept the projects on an
      individual basis to relieve the contractor of his obligations. However, we will require
      a procedure to mutually sign off with the COE to accept O & M responsibility. (COE
      currently working on this procedure.)
   3. LCRBDC is currently working on O&M responsibility tables to establish each task
      and who will do each item.
      - A spreadsheet for Gary has been completed that shows all tasks, frequency of
        tasks, and locations.
      - We are currently gathering information for costs and who might accept
        responsibility for each task.
B. Mitigation (entire project area)
   1. Dan is waiting for a letter from Gary Mayor Scott King to state Gary’s position on
      accepting a large parcel of land for mitigation at 29th and Hanley or if Gary would rather
      see more economic development in that area.
   2. We received a right-of-entry for LCRBDC to sign for in-project mitigation. COE
      stated at 1/24/02 Real Estate meeting that staff should write a letter outlining
      Commission’s objections to include 29th & Hanley and COE will eliminate the
      parcel.
C. Emergency Management/River Monitoring
   1. It is our understanding that the GSD is currently monitoring river levels as part of the
      emergency response participation plan.
      - Currently, the LCRBDC has completed review of GSD/WREP concerns that have
        not been addressed and submitted these to the COE for their input.
      - Refer to Item “F” in this Report regarding operations and maintenance.
2. LCRBDC has reviewed COE mapping which shows locations of road closings, sandbagging, and emergency response locations. A plan to coordinate each community flood event response is currently being formulated with information received from the COE in the final O&M Manual received on November 1st, 2001. (Ongoing)

3. A letter of thanks was sent to Carmen Wilson, GSD Director, for their help in cleaning out the closure structure trenches and reorganizing the storage of these materials.

4. We received a script for closure structure video from Gene Kellar on January 9, 2002 to review and edit.

D. Lake Erie Land Company (The Great Konomick)
   1. No next meeting date has been scheduled.

E. LAMAR Advertising Company
   1. LCRBDC received a phone call from Lamar on December 18th, 2001, asking if the LCRBDC would approve them building these signs on our property if they could get Gary approval. **Discussion about this at the 2/7/02 meeting.**

F. Gary Sanitary District (White River Environmental Partners (WREP)) O&M
   1. LCRBDC has gathered information from the COE to address both engineering and maintenance questions raised by GSD/WREP. We completed a current status sheet that will be reviewed & forwarded to them for discussion as part of an agenda to turn over O&M to them.
      * We wrote a letter to the COE on November 14th, 2001, enclosing our request to them dated September 6th, 2001, addressing the 5 remaining GSD/WREP concerns that have not been answered in writing. We cannot proceed with any O&M issues nor accept any levee segments until these issues are addressed.
      * **We received another letter from Greeley and Hansen (representing the Gary Sanitary District) on January 23, 2002 reiterating concerns related to our project and stating that these issues need to be resolved before any O&M can be implemented.**

G. The Griffith levee west of the EJ&E RR to Cline Avenue has been completed as well as the Colfax road raise. We will be scheduling a meeting with Griffith to discuss their participation in maintaining and operating these items future no later than mid-December.

H. Portions of west reach pump stations in Hammond and Highland are being turned over to their respective communities. Representatives of the Hammond and Highland Sanitary Districts are inspecting with the COE and Contractor and signing off as owner.
   1. Currently working with Highland (John Bach/Mike Griffen) to put together an agreement whereby the community/LCRBDC/COE can mutually sign off for construction acceptance, but the community assumes O&M responsibility. (Ongoing)
      * Submitted to Attorney Casale on October 5, 2001 for review & comments.

**General Items:**

* Crediting – Lands acquired before the 9/26/90 signing date of the Local Cooperation Agreement need to be appraised to that 9/26/90 value. Certified appraisers will be contracted to appraise those lands. Crediting will continue.
January 8, 2002

Mr. Carmen Wilson, Director
Gary Sanitary District
8600 West 3rd
Gary, Indiana 46404

Dear Carmen:

We would like to thank you again for your cooperation in helping us clean out the closure structure trenches on both 55th Street and Chase Street. We met with your personnel on December 18 and 19 and they cleaned both trenches as well as helped us reorganize the closure materials in our storage room at 55th and Chase.

The cleaning of these trenches was critical to remove all debris, water, or any other materials that would hinder the installation of these panels during a flood emergency situation. In the event of a major occurrence, you will be notified in advance to mobilize as part of our emergency response flood control plan. When we finalize all of this information for the city of Gary, you will be involved in a final review of our methods, procedures, or to provide any additional information that would be part of the flood protection for the city of Gary during this occurrence.

If you have any questions regarding this, please contact me at the above number, ext. 112.

Sincerely,

[Signature]

James E. Pokrajac, Agent
Land Management/Engineering

/sjm
cc:  Jeff Miller  
     Jeff Kumorek  
     Dean Button  
     Cass Villiein  
     Imad Samara  
     Tom Deja  
     Roland Elvambuena  
     Garnett Watson  
     Carmen Wilson  
     Melvin Hatten Jr.  
     Arlene Colvin
January 23, 2002

Mr. Dan Gardner  
Executive Director  
Little Calumet River Basin Development Commission  
6100 Southport Road  
Portage, IN 46368

Subject: Little Calumet River Indiana  
Local Flood Protection and Recreation Project.

Dear Mr. Gardner:

The Gary Sanitary District’s (GSD) issues and concerns related to the subject project have been discussed with representatives of the Little Calumet River Basin Development Commission (LCRBDC) and the United States Army Corps of Engineers (USACOE) both in person and via various correspondences during the last few years. Some of the issues and concerns raised in our discussions and correspondence with you have been addressed. However, several other issues require attention.

The issues remaining to be addressed include:

- The capacity of the permitted outfalls at Broadway and Louisiana Street will be impacted by increased water surface elevations in the Little Calumet River which GSD has recently been advised may be as much as six (6) inches. GSD has advised the USACOE of their remediation expectations and provided a conceptual plan with project elements and costs to LCRBDC and USACOE. Please advise of the status of the potential involvement and funding capacity of LCRBDC and USACOE to mitigate the impacts caused by the project.

- GSD has identified issues that need to be resolved prior to GSD accepting ownership and responsibility for the operation of the Grant Street and North Burr Street Storm Water Pumping Stations. Please advise of the status of the resolution of these issues.

- GSD has identified the need to install a radio telemetry system at each of the pumping stations. What is the resolution of this issue?

- Concerns relating to the Ironwood Circle Storm Water Pumping Station will need to be addressed include:
Mr. Dan Gardner

- 2 -

January 23, 2002

- Need to provide a suitable access road to the facility.
- Need to provide security fencing.
- Need to provide lockouts on the disconnect switch.
- Need to provide electrical equipment above the design flood elevations.

○ LCRBDC needs to send copies of the Agreements with NIPSCO to the GSD Director and advise GSD as to how the payback program is to be implemented.

○ GSD reiterates that responsibility and liability for the operation and maintenance of the Broadway and Ironwood Circle Storm Water Pumping Stations remains with LCRBDC until GSD accepts the pump stations. In light of the delay in resolving the issues that are still pending, LCRBDC may wish to consider arranging for interim operation and maintenance by others until that time.

○ The following comments on the Flood Protection Project Operations and Maintenance Manual remain to be addressed:
  - The current manual is a draft and should be finalized to reflect the actual project as constructed when the project is complete. LCRBDC is responsible for updating and submitting the final O&M manual following the completion of the project.
  - The current manual appears to be internally inconsistent regarding the number of pump stations and naming thereof.
  - The current opinion of operation and maintenance costs appears to be missing items and specific pump station names (rather than generic designations) need to be included in the final tabulation. Costs for manning the pump stations during flood events should be included in light of the August 12, 1999 correspondence. For these reasons and due to the passage of time, LCRBDC is requested to provide a revised opinion of the operation and maintenance costs for the Gary reach of the system.

The issues regarding the impact of the levee project on the GSD's collection system at the Marshalltown and Grant Street outfalls are scheduled to be resolved by the LCRBDC. We have recently provided comments on improvements at these locations to address long standing GSD issues. Your ongoing efforts in attempting to resolve these issues are noted and appreciated by the GSD.

However, the issues at the Broadway and Chase Street outfalls remain to be addressed. GSD is currently working on an upgrade of the 27th & Chase Street Pump Station and has discovered the following problems: Based on the USACOE Stage III
Levee Record Drawings dated 7/27/92, the gate structure at the Chase Street outfall has an invert elevation of 590.9, which is 2.9 feet above the invert of the associated drainage ditch which it controls. Why is the invert of this outlet structure higher than the ditch? The higher elevation of this gate structure prohibits effective drainage and causes standing water to be retained in the ditch on the landside of the levee. This ditch is also an NPDES permitted CSO outfall which increases the concerns caused by the standing water. Since the invert elevation of the gate installed as part of the project precludes the proper drainage that existed prior to the LCRBDC modifications, this issue should be addressed by the LCRBDC and the USACOE.

We offer two suggestions for solving this problem: 1. Construct a pump station with the appropriate inlet invert elevation to lift the water over the levee at all times, or 2. Lower the invert of gate structure so that water may flow from the ditch by gravity through the gates while the river is low and construct a pump station as stated in item 1 which lifts the water over the levee when the river is too high to permit gravity flow.

The GSD is cognizant of the challenges and constraints (financial and schedule) associated with the project. However, the GSD is also aware that on completion of construction of the project GSD will be requested to accept ownership and operation and maintenance responsibilities for portions of the project. The GSD needs to be in a position to believe it can carry out those responsibilities in an appropriate manner. We respectfully submit that the above stated concerns be addressed before that can occur.

Yours very truly,

GREELEY AND HANSEN LLC

[Signature]

Paul J. Vogel

Cc
Honorable Mayor Scott L King
Honorable Sanitary District Board of Commissioners
Mr. Carmen Wilson, GSD Director
Mr. James B. Meyer, GSD Attorney
Ms Arlene Colvin, Esq, City of Gary Chief of Staff
Mr. Charles (Spike) Peller, City of Gary Director of Public Works
Mr. Imad Samara, USACOE Project Manager
MEMO

TO: Lorraine Kray, Crediting
FROM: Judy Vamos, Land Acquisition
DATE: 15 January 2002
SUBJ: Contract Appraisals for Land Acquired Before 9/26/90

Thanks for your MEMO of 1/16/02 asking about outside (contract) appraisers to appraise land acquired before 9/26/90. Certified Appraisers must be used to appraise those lands valued at $5,000 or more.

This afternoon I called Ed Rich and Tim Harris of Professional Appraisal Services. Mr. Rich and Mr. Harris are both Certified Residential Appraisers and have already been approved by the Army Corps to complete appraisals on residential, vacant, and bulk land. In our call I explained to them the situation that:

1.) The LCRBDC and Army Corps signed a Local Cooperation Agreement on 9/26/90. LCRBDC lands acquired before 9/26/90 can receive credit for the acquisition cost only. (Title costs, survey and appraisal fees, recording fees, etc. are not creditable.)

2.) Appraisal values for lands acquired before 9/26/90 must be set at the 9/26/90 value. Land valued at $5,000 or under can be appraised in-house with Informal Value Estimates. Land valued at more than $5,000 must be appraised by a Certified Appraiser. Both kinds of appraisals must be reviewed and approved by the Corps.

3.) I’ve contacted Chrystal Spokane of the Corps to determine what appraisal format to use on the 9/26/90 values. (i.e. form appraisal, narrative appraisal, before and after appraisal, etc.)

4.) When the appraisal format is determined you and I can meet with Mr. Harris and Mr. Rich to begin assignments. They agree.

With this new procedure in place crediting submissions can keep rolling along as they are now. Please contact me if you have questions, and thanks again, Lorraine, for your attention to this matter!
Committee preferences for 2002:

**Land Acquisition/Management**
Arlene Colvin
Mark Reshkin

**Project Engineering**
Marion Williams
Bob Huffman
Mark Reshkin
Emerson Delaney

**Legislative**
John Mroczkowski
Arlene Colvin
George Carlson

**Finance/Policy**
John Mroczkowski
Arlene Colvin
George Carlson

**Marina**
Marion Williams
Steve Davis
Emerson Delaney

**Minority Contracting**
Arlene Colvin
Steve Davis

**Recreation**
Bob Huffman
Steve Davis
Emerson Delaney

--- I’ve faxed a new committee sheet to Curt. He has not responded yet. I will let you know as soon as I know. ---

--- I’m waiting for a confirmation from Bob Marszalek. I think he will be on Land Acquisition and Recreation. I will let you know as soon as he confirms. Besides you, the other 8 are accounted for.
Bill Tanke started the meeting by stating his reasoning for the special session. He felt that the members needed to discuss the Little Calme meeting carefully and rationally. He felt that the actions of some of the members at the last meeting could have compounded the Commission's credibility down. The members should be aware of the issues. The Commission is facing some problems this year that should be of great concern to all of us but it seems like it is the small problems that appear to be more of a concern to some members and that keep surfacing year after year. He stressed the importance of discussing the issues, resolving them, putting them behind us and go forward to concentrate on the larger problems at hand. He proceeded to define the 7 committees we now have and the role they should play in 2002.

Land Acquisition/Management - Should play an important role this year since the 7 committees we now have and the role they should play in 2002.

Recreation - With minimal construction, this committee should have a good chance to review plans for the remaining segments.

Marina - This committee has not had much success these last two years; it is dependent on our financial report from the City so we can proceed.

Finance - This year, this committee should concentrate on a comprehensive review of our financial condition, ways to save money, the effect of Lake Erie Land Company, and how to finance O&M. We may need a written policy on our procedures.

Legislative - Need to review best methods to present our case (we have the newspaper, minimal personal contact with area legislators). We not only have budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget problems, but face a budget problem to continue operation after budget
New levee plan aims to allay fears

Assurances given on Little Calumet project, still five or six years away.

BY MICHELLE L. QUINN
Post-Tribune correspondent

HIGHLAND—The construction for Phase 7 of the Little Calumet River Flood Control/Recreation project is at least five to six years away, but the method by which the project will proceed may have become much less invasive.

At the second of several public meetings discussing the project, the Little Calumet River Basin Development Commission unveiled the new plan for the section of levee from Northcote to Columbia avenues in Hammond and Munster to more than 100 people.

Instead of building concrete walls on top of the existing levees as originally planned, steel sheet pilings will be driven into the levees as reinforcement.

While not eliminating construction altogether, the new plan aims to lessen the impact on the affected homeowners, said Dan Gardener, the commission's executive director.

"Since the first meeting, we had heard there were a lot of fears" regarding potential damage to property, he said. "But I think if we do this right, and we meet the assurances we've made to the homeowners, everything will be fine."

Meicy Pond, vice president of Earth-Tech Inc., the U.S. Army Corps of Engineers' consultant and contractor for the project, said with this method there will be less construction involved and they will be able to preserve more natural areas and animal habitats.

There also will be shorter construction times, and reduced impact on roads and less property needed for the project.

"We have to acquire some of what an easement to allow construction crews access to their equipment," said Judy Vamos, the real estate agent handling land acquisition for the project.

The cost of the entire project, currently estimated at $187 million, also will drop, Pond said.

The project, sponsored by the Corps of Engineers and the commission, aims to provide a 200-year level of protection and improved terms along the Little Calumet from Interstate 65 to the Indiana-Illinois border.
**NAME OF MEETING: LERBOC**  
**DATE: 2-7-02**

**LOCATION: 6100 Southwater Pk, Portage**  
**CHAIRMAN: William Tonde**

**PLEASE SIGN IN**

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WORK STUDY SESSION  
7 February 2002  

LAND ACQUISITION / LAND MANAGEMENT  
ARLENE COLVIN, CHAIRPERSON  

1.) INCREASED OFFERS:  
DC 715 $530 for easement increased to $1500 for fee take  
DC 786 $690 for easement increased to $1800 for fee take  
DC 765 $530 for easement increased to $2000 for fee take  
DC 754 $680 for easement increased to $2200 for fee take  

NO CONDEMNATIONS  

2.) In-Project Mitigation Right-of-Entry (ROE):  
There is a difference in the Mitigation Plan and Mitigation Right-of-Entry:  

| Area          | Original request | ROE request |  |
|---------------|------------------|-------------|
| Black Oak site| 36 acres         | 58 acres    |  |
| Clark to Chase south | 53 acres | 98 acres    |  |

This increased acreage amount is on LEL lease-option land. Corps and LCRBDC are working towards an agreement to solve the problem. 

3.) At January meeting Mr. & Mrs. Glen Stotz had questions about cleaning the Colfax to Calhoun ditch and mowing the land remnant between the ditch and railroad:  

It is suggested that the land between the ditch and railroad be included in the next levee mowing contract for the summer of 2002 and the ditch be cleaned of sloughed material in the spring. Perhaps this area should be included in the Operation and Maintenance Manual. Since the property is still in private ownership an extension of the easement will probably be necessary.
PROJECT ENGINEERING
MONTHLY STATUS REPORT
For meeting on Thursday, February 7, 2002

(Information in this report is from December 27, 2001 – February 2, 2002)

STATUS (Stage II Phase 1) Harrison to Broadway – North Levee:
   Dyer Construction – Contract price $365,524
2. Harrison Street – INDOT raising of bridge over I-80/94 approx. 7' at the bridge.
   A. We submitted a ROE to INDOT on January 16th, 2002 for a temporary easement on our property South of I-80/94 and East of Harrison St. to allow them to construct their bridge raise.

STATUS (Stage II Phase II) Grant to Harrison – South Levee:
1. Project completed on December 1, 1993.
   Dyer/Ellas Construction – Contract price $1,220,386

STATUS (Stage II Phase 3A) Georgia to Martin Luther King – South Levee:
   Ramirez & Marsch Construction – Contract price $2,275,023

Landscaping Contract (This contract includes all completed levee segments – installing, planting zones, seeding, and landscaping):
1. Dyer Construction – Final contract cost $1,292,066
   • Overrun (over original bid) $200,016
   Project completed June 11, 1999

STATUS (Stage II Phase 3B) Harrison to Georgia – South Levee:
1. Rausch Construction started on 11/20/95. (Construction is approx. 98% complete)
   • Current contract amount - $3,477,249.66
   • Original contract amount - $3,293,968.00
   • Amount overrun - $183,281.66 (5.6%)
2. A final inspection with the LCRBDC and the COE will be scheduled for this entire portion of the project no later than February of 2002.

STATUS (Stage II Phase 3C2) Grant to Harrison: (8A contract)
1. The final inspection, and punch list items have been completed. We received a letter from the COE on November 22nd, 2000, indicating Webb Construction has completed this work in accordance with the provisions of the plans and specs.
   • Currently, $3,915,178.36 has been spent on this project.
   • Overrun (over original bid) $463,196
STATUS (Stage II Phase 4) Broadway to MLK Drive – North Levee:
1. Project is completed.
   • Current contract amount - $4,186,070.75
   • Original contract amount - $3,089,692.00
   • Amount overrun - $1,096,378 (36%)
2. A final inspection will be scheduled with the LCRBDC and the COE for this entire project, including the Ironwood stormwater pumping station, no later than February, 2002.

STATUS (STAGE III) Chase to Grant Street:
   Kiewit Construction – Contract price $6,564,520.

STAGE III DRAINAGE REMEDIATION PLAN.
1. COE estimates approx. $1 million to do this work. $800,000 for ditches and pumps, $50,000 to engineer an 18,500 GPM pump station West of Grant St. & remainder toward work with the City of Gary.
2. The scope of this project is to include the following:
   A. Lift stations West of Grant to remediate drainage problems due to Stage III construction
   B. East Reach remediation lift station for interior drainage
      • We received comments from the GSD on December 4th, 2001, that were submitted to the COE for their review.
      • Issue #19 questions the COE design of 1500 GPM sufficient. They feel good GPM would be needed. (This could be a $600,000 difference in cost.)
   C. East Reach remediation demolition
   D. Extending the combination sewer East of Grant Street, North to our line of protection
3. Tentative schedule is to advertise January 2002 and start construction in May of 2002.
4. Met with NIPSCO on January 30, 2002 to give them engineering drawings for review. We need their comments prior to signing a ROE (See Land Acq. Report for ROE info)

STATUS (Stage IV Phase 1 - North) Cline to Burr (North of the Norfolk Southern Railroad):
1. IV-1 (North) The drainage system from Colfax to Burr Street North of the Norfolk Southern RR.
   • Current contract amount - $3,013,910.52
   • Original contract amount - $2,708,720.00
   • Amount overrun - $305,109 (11%)
2. The final inspection was held on August 30th, 2001, and tools & manuals were given to the LCRBDC.
3. Will still require “as-built” drawings, and minor punch list items need to be completed.
STATUS (Stage IV Phase 1 – South) (South of the N.S. RR.)
1. Dyer Construction was low bidder. Given 450 days to complete
   • Current contract amount - $4,218,104.53
   • Original contract amount - $3,862,736.65
   • Amount overrun - $359,292 (9.3%)
2. Overall construction is now complete. The COE did a preliminary walk-thru with the contractor on October 17th, 2001, to get a preliminary punch list.
   • When these items are completed, we will do a final inspection of this segment – anticipate this in December, 2001
   • An inspection is anticipated for Fall, 2001
3. WIND Radio facilities:
   A. Three outstanding issues need to be addressed that are new or existing.
      1. WIND has damaged the completed levee segment and suggest that the cost to repair this could be done as part of the expense of repairing their ground system.
         • We received a cost estimate from the COE (Arzumanian Nursery) to do all repairs in the amount of $4,975.00
         • The contractor completed their responsibility and the COE suggests we take
      2. We received a letter from WIND on November 29th, 2001, along with receipts and cost breakdowns, requesting an increase for this utility re-locate from their original estimate of $37,960.70 to $53,900.
         • We sent a letter to the COE and to Lou Casale on December 13th, 2001, suggesting coordination to resolve these issues.
      3. The remaining issue concerns their letter of September 17th, 2001, requesting that we fence an “open pond” we created for drainage as well as fencing to secure their property from trespassers to get river access.
         • We sent a letter to WIND on January 10th, 2002, indicating we would only fence the pond and we would get quotes.
      4. We received an email from Paul Easter on January 30th indicating they would accept fence, charge $53,900 for grounding, and want us to pay $4,975 for levee repairs.
4. We received modification #16 for a supplemental cost to the contract in the amount of $3,472.65 on December 19, 2001, which increases the total contract to $4,222,029.93.

STATUS (Stage IV Phase 2A) Burr to Clark – Lake Etta:
1. Dyer Construction-95% complete.
   • Current contract amount - $3,329,463.66
   • Original contract amount - $2,473,311.50
   • Amount overrun - $856,152 (34%)
2. We received a change order from the COE on December 20th, 2001, with final estimated quantities which will decrease the current contract by $174,982.14 (Copy available upon request.)
3. The North Burr Street stormwater pumping station has been completed.
   A. A meeting was held on February 8th, 2000, with the COE and GSD to review design and installation of auxiliary power hook-up with a portable generator.
B. All electric has been completed, the metal building is installed, and the total project is done except for some minor trench settling. We will be scheduling an inspection with GSD/WREP in early January 2002.

C. Austgen Electric is the contractor.

**STATUS (Stage IV Phase 2B) Clark to Chase**

1. The final inspection was held with the COE and Dyer Construction on July 23rd, 2001, and we received the O&M Manuals.

2. **We received a request for a change order to increase a cost of $9,015.03 for gatewell repairs on December 20th, 2001, increasing the total current contract to $1,948,053.31. (Copy available upon request.)**

3. Project money status:
   - Current contract amount - $1,948,053.31
   - Original contract amount - $1,530,357.50
   - Amount overrun - $417,696 (27%)

**STATUS (Betterment Levee – Phase 1) E.J. & E. Railroad to, and including Colfax North of the NIPSCO R/W (Drainage from Arborgast to Colfax, South of NIPSCO R/W):**

1. The bid opening was held on May 9th, 2000
   - The low bidder is Dyer Construction.
   - Current contract amount - $2,228,652.16
   - Original contract amount - $2,074,072.70
   - Amount overrun - $113,604.62 (6%)

2. The final inspection was held on August 30th, 2001, with minor punch list items to be completed. Manuals and tools, and “as-built” drawings will be turned over to LCRBDC.

3. The drainage ditch north of the Mansards is having sloughing problems that should be corrected when Burr Street Phase II is completed.

**STATUS (Betterment Levee – Phase 2) Colfax to Burr Street, then North NSRR, then East (North of RR R/W) ½ between Burr and Clark, back over the RR, then South approx. 1,400 feet:**

1. We wrote a letter to the COE on May 21st, 2001, requesting final information for all utility re-locates in order that we may proceed with agreements.
   - We received an email from the COE on November 20th, 2001, indicating that this project is currently on hold and that they are concentrating their efforts on other segments.

2. The projected government estimate for this project is approximately $3.6 million.
   - LCRBDC needs to review spending through 2003 (this biennium) to establish priorities. The $5.5 million may not allow this construction if land acquisition and utility re-locates in the West Reach exceed original cost estimates.
   - We included the Land Acq., utility re-locates, and our portion for construction into this biennium, but are pursuing the possibility of making this project part of the flood control project (not a betterment).
STATUS (Stage V Phase 1) Wicker Park Manor:
1. Project completed on September 14, 1995.
   Dyer Construction – Contract price $998,630
2. Phillips Pipeline directional bore under the existing levee is currently being engineered
   • As of March 23, 2001, a temporary hold has been put on this engineering request due
     to current funding restrictions. This will be done at a later date as part of the V-2
     construction.

STATUS (Stage V Phase 2):
1. With the approved $5.5 million for this biennium and with $5.5 million assumed for the
   next biennium, we project a fall, 2005 advertising date.
2. A utility coordination meeting was held on November 16th, 2000 with all pipelines,
   utilities, etc. that will be impacted in the NIPSCO corridor West of Kennedy Ave.
   A. We have received cost information from the pipeline companies to do the work
      necessary to accommodate I-walls. The total cost in this corridor and for 2 directional
      bores west of the RR will total approximately $1.1 million.
   B. We made a request to NIPSCO on August 22nd for copies of all subordinated
      agreements with other pipelines to allow our attorney to review their responsibilities
      to repair or modify their pipelines.
      • We received copies of (3) of the (9) different pipelines on August 31st.
3. We received a letter of request from North Township on July 9th, 2001 to re-align the
   levees adjacent to Hart Ditch further Westward to allow more room to develop property
   on the Wicker Park Golf Course.
   • Currently, the design will require 300’ between center lines of levees, the layout has
     the levee on Wicker Park approx. 220’ East of Hart Ditch and the levee on the
     Munster side approx. 80’ West of Hart Ditch.
   • This is due, on the Munster side, to the limitations of real estate, and to the proximity
     of residential dwellings.
   • The meeting with Munster and North Township was held on July 19th, 2001. It
     appears North Township will try to minimize impacts to the Munster side if the COE
     might do some considerations.
4. We requested an email from Highland/COE regarding drainage concerns with INDOT in
   the area around and adjacent to the Tri-State Bus terminal.
   A. A meeting was held with the COE, INDOT, LCRBDC, North Township and
      Highland on June 14th, 2001, to review these drainage concerns.
      • A potential exists to partner between Highland, North Township and INDOT to
        build a pump station in the ditch area West of Tri-State.
   B. We received a letter from the COE dated May 24th, 2001 (on July 3rd) indicating to
      INDOT that the ponding in this area is likely to be substantially greater and it would be
      in the best interest of the community if they would include a pumping unit.
      • We received the hydrology information for the area around the Wicker Park
        Golf Course from the COE on January 18th, 2002.
C. We received a call from North Township (Greg Cvitkovich) on December 19th, 2001, requesting a meeting with the COE, INDOT, and Highland to review and discuss the status of INDOT’s proposal in this area.

- A meeting was scheduled for January 23, 2002.
- We received a call from the INDOT Project Manager on January 17th, 2002, saying they didn’t think a meeting would be productive. He will send a letter to all parties indicating their intent to tie into a proposed Highland culvert that drains to the 81st St. pump station in lieu of constructing a pump station.

5. We received a request from the COE on September 26th, 2001, to obtain additional information on the pipeline corridor for locations and elevations.

- We received a quote from GLE for the survey work at a cost not to exceed $3500.
- We met Badger Daylighting on October 18th, 2001, to review scope of work. We received a letter on November 12th, 2001, indicating they could do the pipe exposing for $12,200 during dry conditions and $37,000 in wet conditions.

STATUS (Stage V Phase 3) Woodmar Country Club:

1. Refer to Land Acquisition report for status of appraisal process and revised schedule.

- As per our June 7th, 2000 partnering meeting, the schedule shows a March 2002 advertising date. This date will be pushed back due to funding restrictions even if we get the $5.5 million for this biennium. The construction sequence due to hydrology will push construction back in the schedule.

2. Appraisal work ongoing (refer to Land Acquisition report).

3. This project will be done after all other construction between Cline Ave. and Northcote is completed due to hydrology concerns with installing the control structure as part of the project.

STATUS Stage VI – Phase 1 (Cline to Kennedy – North of the river, and Kennedy to Liable, South of the river.):

1. The COE is currently planning to advertise this project in October, 2003, award in February of 2004, and start construction in April, 2004. This will probably be advertised at the same time as Stage VI-2. The contract estimate for Stage VI-1 in 1998 was $7.7 million.

2. Legal descriptions North of the river have been completed by GLE, and legals South of the river have been completed by DLZ.
   A. Legals have been done for Hammond, HSD, and Hammond Parks between the Highlands Apartments and the S.E. Hessville Pump Station.
      - These lands include approx. 62 acres of ownership and when the appraisal is completed, we will coordinate with Hammond for turnover of these lands for our project.
   B. Highland properties were completed (plats & legals) by DLZ and given to Dale Kleszynski (appraiser) at our July 19th, 2001 Real Estate meeting. (Approx. 62 acres.) See Land Acq. Report.
   C. Appraisal work has been completed for the Kennedy Industrial Park area (see Land Acq. Report).
3. A letter was sent to the COE on November 15th, 2001, requesting a list of all utilities, locations, costs, etc. in order that we may proceed with utility re-location agreements in a timely manner.
   - We received a list of all re-locations, utilities, points of contact, what actions were taken, on January 14th, 2002, but not locations, costs, or information necessary to begin our utility re-location process.

4. A letter was sent to Krosan Enterprises on January 28, 2002, requesting a written response to indicate how much area would be needed to allow traffic flow South of his building.

STATUS Stage VI – Phase 2 (Liable to Cline – South of the River):
1. Rani Engineering was awarded the A/E contract by the COE in January 2000. (They are out of St. Paul, Minnesota.)
2. It is the intent of the COE to advertise this segment simultaneously and separately from Stage VI-1. The anticipated schedule is to advertise in October, 2003, award in February of 2004, and start construction in April, 2004.
3. We received a letter from INDOT to Rani Engineering on January 8, 2001 indicating their concerns regarding culverts & recreational proposals.
   A. A meeting was held with RANI, the COE, INDOT, and the LCRBDC on April 11, 2001 to review these and other engineering issues.
      - INDOT agreed we could cross Cline Avenue at the existing light at Highway Avenue. (See Recreation Report).
   B. We responded to their 100% submittal on January 10th, 2002, and indicated that many of the 50% comments were not addressed or considered. (Responses available upon request.)

STATUS (Stage VII) Northcote to Columbia:
1. The final contract with Earth Tech to do the A/E work for this stage/phase of construction was signed and submitted by the COE on December 21st, 1999.
2. We sent a letter to the COE on February 1 with comments to their 75% submittal indicating a number of concerns and requesting another review opportunity prior to the 100% review.
3. A public meeting was held with Hammond and Munster on January 30, 2002 at the Wicker Park Social Center.

STATUS (Stage VIII) Columbia to the Illinois State Line:
1. The A/E award was given to S.E.H. (Short, Elliot & Henderson Inc.)
2. A public meeting was held at the Wicker Park Social Center for Hammond and Munster on November 28th, 2001, to gather public information and to answer questions.
3. A letter was sent to the Lake County Highway Dept. on November 20th, 2001, requesting that our concrete closure slab on Hohman Ave. be incorporated into their bridge project which is scheduled to start on April 1st, 2002.
   - We received minutes of the pre-construction meeting on January 3rd, 2002.
• The COE is in the process of obtaining information for N.W. Engineering so they can modify their contract. This includes details on the concrete slab, cross-referencing the Corps project system with the INDOT stationing, and locations and sections of clay. (This was completed on January 30, 2002).
  * We received a letter from NICTD dated October 9th, 2001 with the engineering/recreational design concerns in the area under I-80/94.
  * We have been working on a meeting with NICTD and the COE to discuss their letter of October 9th, 2001.

East Reach Remediation Area – North of I-80/94, MLK to I-65:

1. Project cost information
   • Current contract amount - $1,873,784.68
   • Current contract amount - $1,657,913.00
   • Amount overrun - $215,971 (13%)

2. A final inspection was held with the COE and Dyer Construction on July 23rd, 2001 and we received copies of the O&M manuals.
   • We received “as-built” drawings from the COE on June 25th and distributed to the city of Gary on June 27th.

Mitigation (Construction Portion) for “In Project” Lands:

1. The COE is anticipating to advertise this portion of construction in December 2001, and start construction in May of 2002.

2. This includes 29th & Hanley, areas between levees West of Chase and East of Clark.
   • There may be potential to eliminate 29th & Hanley due to economic justification or zoning objections by the City of Gary. (See Land Acq. Report.)

3. They are proposing to use the most qualified contractor rather than bidding it out. The contractor will need a botanist.
   • This is projected to be a $1 million contract – our portion at 25% is $250,000, and the Corps anticipates we need to contribute 60% this biennium (approx. $150,000).

4. Met with NIPSCO on January 30, 2002 to give them the engineering drawings for review. We need their comments prior to signing a ROE. (See Land Acq. Report for ROE info)

West Reach Pump Stations – Phase 1A:

1. The four (4) pump stations that are included in this initial West Reach pump station project are Baring, Walnut, S. Kennedy, andHohman/Munster.

2. Low bidder was Overstreet Construction. Notice to proceed was given on November 7th, 2000 – 700 work days to complete (Oct. 2002)
   • Current contract amount - $4,697,178.47
   • Original contract amount - $4,638,400.00
   • Amount overrun – $58,778.40 (1%)

3. A pre-construction meeting was held on November 27th, 2000, to discuss scheduling, establish points of contact, and coordination.
4. **Baring Pump Station**
   - 5% complete
   - 2 pumps on site
   - Concrete work starting

**Walnut Pump Station**
- 6% complete
- 3 pumps currently being re-built
- Electric demolition begun

**S. Kennedy Pump Station**
- 5% complete
- One pump being re-built
- Concrete pads being constructed

**Hohman/Munster Pump Station**
- 5% complete
- Electric demolition ongoing
- 2 pumps installed and ready for operation
- 2 additional pumps received and ready for installation

5. We received the last status report from the COE on **January 28, 2002**.

6. A coordination meeting was held on December 18th, 2001, **with the COE, LCRBDC, NIPSCO, HSD and Overstreet to review service upgrades for each pump station.**
   - NIPSCO will engineer each station, provide a cost estimate, enter into agreements with HSD for upgrades & with the LCRBDC for any utility re-locates.

7. Received (3) administrative changes for additional money available for payment in the amount of $1,100,000 – money now available $2,152,865.97.

8. **We received a change order for an additional $21,773.47 for differing site conditions on December 18th, 2001, increasing the total contract cost to $4,697,178.47. (Copy available upon request.)**

**West Reach Pump Stations – Phase 1B:**

1. The Two (2) pump stations included in this contract are S.E. Hessville (Hammond), and 81st Street (Highland). Overall project is 99% complete.
   A. A final inspection was held for both stations on September 18th, 2001. We received a letter that day listing key turnover items.
   B. We received an email from the COE on November 7th, 2001, indicating that we will be receiving the final O&M Manuals in the near future.

2. Thieneman Construction from Griffith, IN was the successful bidder.
   - Current contract amount - $2,120,730.12
   - Original contract amount - $1,963,400.00
   - Amount overrun - $157,330 (9%)

3. We received the last status report from the COE on **January 28, 2002**.
North Fifth Avenue Pump Station:

1. The low bidder was Overstreet Construction
   - Current contract amount - $2,387,500.00
   - Original contract amount - $2,387,500.00
   - Amount overrun - none

2. A pre-construction meeting was held on May 21st with Overstreet Construction, town of Highland, COE, NIPSCO, and the LCRBDC.
   - There are currently 10 pumps and all of these will be replaced with new and will be coordinated with the town of Highland.

3. We received the last status report from the COE on January 28, 2002.
4. We received a request for an administrative change in the amount of $500,000 on January 14th, 2002, which makes money available for payment $750,000.

GENERAL:

1. Utility Re-locations:
   A. On June 20, 2001, a utility coordination meeting was held with the LCRBDC and the COE to discuss utility status and how to track each relocation.
   - An email was sent to the COE on January 11th, 2002, repeating what we need from the COE for VI-1, VI-2, and V-2 to proceed with our agreements.
   - We received all the information the COE had on utilities for VI-1 and VI-2 on January 22, 2002 and the LCRBDC will attempt to write individual letters to each to get more specific information.

2. The Gary Sanitary District/White River Environmental Group has had engineering/hydrology and maintenance concerns with our design and installation for flood protection that they feel needs to be addressed prior to them agreeing to any O&M responsibility. (See Land Management Report.)
   - The COE was requested to answer these final (5) issues in early September, 2001 – no reports as of December 27th, 2001.
   - We received another letter from Greeley & Hansen (GSD engineering consultant) on January 23rd, 2002, requesting answers again. (See Land Mgmt. report.)

3. An Engineering Committee meeting was held on November 13th, 2001, to review a tentative list of cost savings issues for our project.
   A. These included reviews of our rights and entitlements of our 75’ drainage easement, re-channelling of the river to lessen impacts to property owners, hydrology changes near the state line due to Cady Marsh modifications and the Thornton Quarry, and re-consideration of our approach to Woodmar Country Club.
   B. We sent a letter to the COE on December 6th, 2001 enclosing information, maps, sketches, and some FDM 5 data that are pertinent to our “tentative list of cost saving items”.
     - We asked the COE to review these and then to provide “VE” information to Jim Flora to allow us to provide economic justification.
   C. We have been requested by SEH Engineering (A/E for Stage VIII) about reimbursing utilities/communities for their engineering costs to provide details for the COE to complete their plans. Note: this will apply to all West Reach segments.
4. We received a letter from INDOT Consultant, Hanson Professional Services, Inc., on December 13th, 2001, regarding their upcoming construction for I-80/94 and asked for our comments and concerns.
   A. We responded to this request on January 31, 2002, and also addressed an additional concern for runoff and what precautions will be taken to handle environmental concerns.

5. At our January 3rd, 2002 public board meeting, the commissioners requested that staff compile a list of outstanding issues that have accumulated and not been addressed and submit this to the COE for action.
   A. This letter and those items were sent to the COE on January 14th, 2002 (all commissioners copied)
   B. The COE responded on January 31, 2002 – we had a meeting to discuss with the COE in Chicago on February 1st, 2002. (Handouts will be distributed at our Board meeting and will be part of the discussion at the Work Study Session).
January 16, 2002

Mr. Greg Kicinski  
Design/Build Project Manager  
INDOT  
100 North Senate Avenue  
Room N601  
Indianapolis, Indiana 46204-2216

Dear Greg:

Enclosed are four (4) sets of the right-of-entry for the land east of Harrison Street and south of I-80/94 as you have requested. If they meet your approval, please sign all 4 sets and return them to our office for counter signature. We will then return 2 sets back to you for your files. You may consider them as your notice to proceed.

As stipulated in the attached right-of-entry, we need to assure that your contractor will return the condition of this property to its original condition that will include final re-grading, seeding, fencing, and returning the slope of the driveways to their original grade or less. We pointed this out in Item #4 of the right-of-entry also indicating that we need to have an inspection upon completion of your work by the Army Corps of Engineers to assure that the levee meets their standards.

If you have any questions regarding this subject, please contact me at the above number, ext. 116.

Sincerely,

James E. Polkrajc  
Agent  
Land Management/Engineering

/sjm
encl.
cc:  Imad Samara, ACOE  
Tom Deja, ACOE  
Lou Casale, LCRBDC attorney
January 10, 2002

Mr. Paul Easter  
WIND Radio  
625 North Michigan  
Suite 300  
Chicago, Illinois 606011

Dear Paul:

We reviewed your letter dated September 7, 2001 requesting that we fence not only the “pond” area but also the river access that would secure your entire property. We presented this proposal to our Board members at our October board meeting and they concurred that it should be our responsibility to fence just the pond and no other area on your property. We have provided a gate at Colfax to restrict vehicular traffic from driving on your property. We also talked to the Army Corps of Engineers and they suggested that from an operation and maintenance perspective, that the Little Calumet River Basin Development Commission should get several quotes to fence the pond area and provide the money to you. This would allow WIND to facilitate getting this installed as well as to accept the responsibility for all future maintenance for the fencing. However, the LCRBDC will have the ongoing responsibility for operations, maintenance, and inspections of only those items that are part of our flood control project. If you have any further comments regarding this issue or any other questions, please contact me at the above number, ext. 112.

Sincerely,

[Signature]

James E. Pokrajac, Agent  
Land Management/Engineering

/cc:  Imad Samara, USACOE  
Tom Deja, USACOE  
Lou Casale, LCRBDC attorney  
Bob Huffman, LCRBDC
Payment of the invoice we recently sent.

The invoice you received represents the expenses WIND has incurred replacing the ground system that was removed for the installation of the levee. This also included a detailed report of the construction activities that occurred at the WIND site to replace the ground system.

The second issue is the condition of the soil and grass following replacement of our copper radials, as brought to our attention by Ed Karwatka.

This could not be avoided. We waited until Dyer construction gave us the go ahead before starting.

When we got started, the weather was very bad.

Because of almost constant rain, mud and the steepness of the levee, more soil and grass was disturbed than we’d expected. This probably explains the Army Corps misunderstanding.

The project also took longer and was more expensive.

We originally attempted get the radials installed with the tractor we’d planned and ended up using a track drive bulldozer. The tractor could not get through the mud or up the steep slopes of the muddy levee. We had to constantly pump water to keep the area workable. Essentially we were working in a river bed.

CBC, under the circumstances made the best of the situation and got it done. We are required by the FCC to maintain this ground system, it is part of our antenna system. The WIND signal is back to normal. If there are repairs that need to be done to the levee, please do this as part of the expense of repairing our ground system. We are done with the repairs to the ground system that would go over the levee.

All things considered we have been happy with the cooperation enjoyed during this project and hope we can help wrap this up soon.

Thanks,

Paul Easter
Sandy Mordus

From: "Paul Easter" <paulaste@pobox.com>
To: "Jim Pokrajac" <littlecal@nrpc.org>
Cc: "Daisy Weiner" <dweiner@hispanicbroadcasting.com>
Sent: Wednesday, January 30, 2002 6:24 PM
Subject: Letter you requested

Jim,

I am resending the original letter I sent you in December.

If there are any remaining "issues" please call me or email me ASAP so we can get this resolved. We need our money!

We worked closely with Dyer and made the best of the situation.

We asked Dyer specifically if we could install the radials before the grass was planted and the asked us to wait.

We started as soon as they said we could.

The fence proposal you sent is fine. We just need to be clear on what you are willing to pay for.

Some of the road between the two towers closest to the building was added to.

We covered the new radials and copper strap with crushed stone.

This was cheaper than digging up the road and risking further damage to the ground systems or cables that might have caused us off air time.

Paul Easter
Dear Mr. Pokrajak,

I have asked Harold Snure of CBC Engineering to call you in regards to any issues that may be outstanding regarding the ground system replacement at the WIND site on the Little Calumet River. CBC made numerous photos of the project while it was in progress.

If there are any issues remaining that might delay the payment of our invoice, or you do not hear from Harold please call or email me immediately.

Sincerely,

Paul Easter
January 28, 2002

Mr. D. L. Santacaterina
KROSAN ENTERPRISES
8412 S. Wilmette, Suite D
Darien, Illinois 60561

Dear Mr. Santacaterina: 

In response to your letter of January 8, 2002, please forward information regarding how much room you will require south of your existing building to allow adequate traffic flow. This information is needed by the Development Commission and the Army Corps of Engineers to determine whether or not a modification to the Corps project construction adjacent to your property will be economically and technically feasible. Upon completion of our analysis, you will be advised of the results.

If you have any questions regarding this request, please contact me at the above number.

Sincerely,

[Signature]

James E. Pokrajac, Agent
Land Management/Engineering

/sjm

cc: Lou Casale, LCRBDC attorney
Imad Samara, COE
January 10, 2002

Mr. Imad Samara
Programs & Project Management Division
Project Management Branch
Corps of Engineers
111 North Canal Street
Chicago, IL 60606-7206

Re: Stage VI – Phase 2
100% BCOE Plans and Specifications

Dear Mr. Samara:

We have reviewed the 100% BCOE Plans and Specifications with Mr. James Pokrajac of LCRBDC. As you will recall we submitted comments on the 50% plans for this project on December 28, 2000. Most of those comments have not been adequately answered. Unfortunately the 100% set of plans was developed from the 50% plans without addressing or considering our comments. Therefore not only do our December 28, 2000 comments still need to be resolved, but our new additional attached comments also need to be adequately answered. Resolution of our comments will very likely result in some significant changes in the plans.

Regarding our December 28, 2000 comments, we received responses to them on February 27, 2001 (copy attached). Unfortunately 29 of our 50 comments were responded to with the words "Discuss" or "Discuss with the Corps". In a letter dated March 8, 2001 (copy attached). Mr. Pokrajac reported this deficiency to you and indicated that "many of these issues need to be addressed prior to proceeding to the 100% BCOE Stage of design". This was not done. In the last nine-plus months, there has not been a single telephone discussion or meeting to discuss our comments. Mr. Pokrajac’s March 8, 2001 letter also listed four (4) specific items that were not adequately addressed by February 27, 2001 response. These four items have also not been discussed further.
It is also unclear to us how the Town of Highland August 20, 2001 (attached) request for reconsideration of a number of the responses to their comments on the 50% plans have been resolved.

It appears to us that immediate action needs to be taken to fully resolve unanswered 50% comments. After that, the plans can be revised to reflect a true 100% BCOE set of plans which we would be happy to review and comment on.

Very truly yours,

R. W. ARMSTRONG & ASSOCIATES, INC.

James J. Flora, Jr., P.E.
Vice President

JLF:kf

cc: Dan Gardner, LCRBDC
    Jim Pokrajac, LCRBDC

V:Samara Lr-StaVI-Ph.2.1-10-02
MINUTES OF PRECONSTRUCTION CONFERENCE FOR BRIDGE ON HOHMAN AVENUE OVER LITTLE CALUMET RIVER, INDOT CONTRACT NO. B25403 ON JANUARY 3, 2001 AT 1:00 P.M. AT LAKE COUNTY HIGHWAY DEPARTMENT

Present: Larry Koebcke Area Engineer, INDOT
Duane Alversen Highway Eng., Lake County Highway Dept.
Verge Gillam BEO Officer, INDOT
Stan Dostani City Engineer, Hammond
Scott Mitchell Hammond Sanitary District (Sewer)
Arthur Rundzaitis U.S. Army Corps. of Engineers
Ed Karwatka U.S. Army Corps. of Engineers
Chuck Childs Short Elliot Hendrickson, Inc.
Jim Pokrajac LCRBDC
Jim Fitzner NIPSCO
Aravind Muzumdar North-West Engineering Co., Inc.
Ravindranath Chigurupati North-West Engineering Co., Inc.
Thomas Weinmann North-West Engineering Co., Inc.
Roxanne McGrone North-West Engineering Co., Inc.
Neal Carboneau Kankakee Valley Corp.
Joe Kequgh Hawk Enterprises
Greg Neulieb Hawk Enterprises

At the outset all those present introduced themselves.

Mr. Jim Pokrajac of LCRBDC has explained that an impervious clay liner and sandbag structures need to be constructed across the roadway on both sides of the river under the flood control levee project. Instead of trying to close the road for traffic at that time (construction of levee projects) it is proposed to install these structures now. A copy of the bridge drawings are handed over to USACE. The exact extent of work needs to be determined based on the new bridge elevation. A meeting will be set up later to determine the exact extent of work. Based on this contractor will be asked to work out a price for the change order. Later a pay mechanism can be worked out based on input from NIRPC and INDOT (Bob Rhoades).

Later the chain of command among Lake County Highway Department, North-West Engineering, INDOT has been explained by Ravindranath Chigurupati. At this time Mr. Neal Carboneau has handed over a package containing signature, affidavit, list of subcontractors, schedule. A set of unusual conditions on the project has been explained to the contractor by Mr. Chigurupati.
a) The contractor is requested to videotape the house on the NE corner before the construction and after the construction.

b) Also it has been explained about the steps that need to be taken to protect the fence on the NE corner. Also the contractor's attention has been invited to the special provisions in the agreement.

Neal Carboneau has explained that Kankakee Valley Corp. will predrill the holes for the piling for Northern abutment.

Ch. Ravindranath had explained that Town of Munster had requested for emergency vehicle detection system and traffic signal heads to be LED (Light Emitting Diode). Mr. Larry Koebecke said that INDOT does entertain such requests from Local Public Agencies. However it is up to the Lake County, NIRPC to determine the funding Mechanism.

Hammond Sanitary District's representative Mr. Scott Mitchell has explained that the sewer Main which is abandoned needs to be filled with flowable mortar or removed. Mr. Stan Dostatni has explained that any dewatering methods should discharge water into storm sewer i.e. Structure No. 114 (opposite to the Hammond Pump Station). As the combined sewer along the Eastern Right of Way is running up to its full capacity, hence the dewatering water can not be discharged into this sewer. He also explained that the contractor needs to obtain a permit from Hammond Sanitary District before discharging into Structure No. 114. The contact person is Jeff Masey at the Hammond Sanitary District to obtain the permit. It was explained that the fire hydrant can be raised under the existing contract as a change order or the Water Department of the City can be reimbursed by the State.

Mr. Chigurupati explained that he will read the Hammond Sewer Design Manual and explain to the contractor all the pertinent tests that needs to be carried. Stan Dostatni and Scott Mitchell will explain in the field before commencing of any work on the sewers and how the entire sewer system runs so that any potential problems can be avoided.

Mr. Ch. Ravindranath has explained about the erosion control requirements of the job site and Mr. Neal Carboneau has explained that the silt fence will be installed by the subcontractor, Slussers Green Thumb Inc. and it will be maintained by KVC. Mr. Ch. Ravindranath has also explained about the payrolls that needs to be submitted to the state and also about the plants that needs to be inspected by the State before planting them. At this time the issue of form PR 1391 was discussed. It was explained by the EEO officer that now PR 1391 does not concern the Project Engineer. He also explained that KVC is enrolled in pilot training program and handed over the necessary posters that need to be displayed on the bulletin board.

Mr. Jim Fitzer with NIPSCO has explained that there are no conflicts with the utility. However there are a couple of power poles on both sides of the sidewalk that may need to be removed. However Mr. Stan Dostatni has requested that the existing lighting needs to be maintained till the new lighting system is in place.
It was explained by Stan Dostatni that a request for closure of road needs to be approved by Board of Public Works and the board meets every Thursday at 9 o'clock. Any request for closure needs to be received by his office at least 2 days in advance. It was explained by Chigurupati that no representative of Ameritech will be attending the meeting, as they do not have any conflict.

At this time Mr. Neal Carbeneau has requested that he would like to close the road for traffic early sometime in February so that the entire project can be completed early. Mr. Koebcke has advised that such request should be in writing and must be approved by INDOT in writing before commencement of work. The road closure days will still remain the same. Mr. Stan Dostatni, Duane Alverson, Larry Koebcke have expressed no problems with the above idea unless the Town of Munster has any reservations. However Mr. Larry Koebcke has informed that issues with USACE needs to be resolved before demolition of bridge.

Mr. Neal Carbeneau has stated that he will pass on all the pertinent details for piling so that it can be reviewed by INDOT Geotechnical Division before commencement of any piling work.

Minutes prepared by Ravindranath Chigurupati.
Sandy Mordus

From: "Samara, Imad LRC" <Imad.Samara@lrc02.usace.army.mil>
To: "Littlecal" <littlecal@nirpc.org>; "Samara, Imad LRC" <Imad.Samara@lrc02.usace.army.mil>
Sent: Monday, January 28, 2002 3:47 PM
Subject: RE: Hohman Ave. Bridge

The hang up Jim is how we can pay for it. I was under the impression that we can give the engineering plans to N W Engineering to incorporate it in a modification JUST LIKE WE DID AT BURR STREET. Well, I was reminded that at Burr Street we modified Dyer Contract at Stage IV-1A and Dyer hired the INDOT contractor to do the work. At Homan we don't have a contractor next to that work. We have 2 things we are working on the technical drawing is one. And the other is a way to contract this. One option is to hire the Lake County contractor as a sole source, another is to go into agreement with Lake County like we have done with INDOT (this one may take time) and pay them that way.

The technical drawing and specification are almost done. How we are to contract this I'm still not sure at this time. I will talk to the Contracting folks and the are office. I will get you an answer tomorrow. This would be considered construction cost for this project and not Lake County.

-----Original Message-----
From: Littlecal [mailto:littlecal@nirpc.org]
Sent: Monday, January 28, 2002 12:15 PM
To: Samara, Imad LRC
Subject: Re: Hohman Ave. Bridge

Imad:

I received a call on Friday Jan. 26th from Duane Alverson from the Lake County Highway Department asking what the status was on obtaining the engineering information that they need to proceed with our portion of work on the Hohman Avenue bridge. We've discussed this previously and you mentioned that people are working on it. With the Highway Dept. possibly starting construction as early as February 11th, they need this information immediately in order that they can get costs from their contractor and help coordinate their construction in a timely manner. My understanding from Duane Alverson is that the Hohman Avenue bridge project is 80% federally funded and 20% locally funded. I also understand that our portion of the work on their project would only require us to pay the 20% portion, whereby the Feds would pick up the 80% portion. What procedure should we follow to reimburse their contractor for that 20% portion?

Jim Pokrajac

----- Original Message ----- 
From: Samara, Imad LRC 
To: Little Calumet (E-mail)
Sent: Thursday, January 17, 2002 3:35 PM
Subject: FW: Hohman Ave. Bridge

Jim I guess the team is on top of it.
-----Original Message-----
From: Karwatka, Edmund J LRC
Sent: Thursday, January 17, 2002 3:23 PM
To: Samara, Imad LRC; O'riley, James M LRC; Deja, Tom LRC; maneesha@aci.com
Cc: Davis, Susanne J LRC; Fornek, John T LRC; Karwatka, Edmund J LRC
Subject: RE: Hohman Ave. Bridge

Imad:

Yes. I have been in contact with Ravi almost daily. Murphy is heading up this response. Sue Davis has pretty well determined the stationing location. John has been involved and Sue is to try to get his
approval today. The problem is that the contract for the bridge has been let without clay cut-offs. Since the approaches where the cut-offs are to be installed will be raised 5 to 6 ft. we need to get the clay cut-offs in now. We are now dealing with a modification. We are trying to keep the added work as simple as possible. To that end we are trying to keep the top of clay just below the road drainage. We also have the problem of having stationing between the two projects that do not relate. Sue has now pretty well established the location relative to IndOT's stationing. It's too bad the Corps didn't get involved much sooner.

Edmund

-----Original Message-----
From: Samara, Imad LRC
Sent: Thursday, January 17, 2002 2:25 PM
To: Samara, Imad LRC; O'riley, James M LRC; Karwatka, Edmund J LRC; Deja, Tom LRC; maneesh@aol.com
Subject: RE: Hohman Ave. Bridge

Is anyone taking care of that. Please email me a response I would like to reply today.

-----Original Message-----
From: Sandy Mordus [mailto:smordus@nirpc.org]
Sent: Thursday, January 17, 2002 12:31 PM
To: Samara, Imad LRC; O'riley, James M; Karwatka, Edmund J; Deja, Tom; maneesh@aol.com
Subject: Hohman Ave. Bridge

Imad:

I received a call from Northwest Engineering (Ravi) on June 16th indicating that he had not received the exact information he needed regarding the Hohman Avenue bridge. He indicated that he has received information from both Murphy O'Riley and SEH but that it did not provide him the following specific information they need to tie in their stationing with our coordinate system in order that they can properly locate either the concrete closure slab or the clay that will tie in to the bridge that will serve as our line of protection. Their contractor (Kankakee Valley) indicated that they may be starting their construction as early as February 11, 2002 and that Ravi needs this information as soon as possible in order to have time to properly coordinate with his contractor.

I am only acting liaison. Will you please contact Ravi through his e-mail (maneeusa@aol.com) or you may call him direct at Northwest Engineering (219/882-6853).

Jim Pokrajac
Sandy Mordus

From: "Littlecal" <littlecal@nirpc.org>
To: "Samara, Imad LRC" <Imad.Samara@lrc02.usace.army.mil>
Sent: Thursday, January 17, 2002 3:26 PM
Subject: Re: Jim Phone Call

Imad:

I realize how busy you are, but the Hohman Ave. Bridge is scheduled for construction in 3-1/2 weeks and they need this data ASAP to coordinate with their contractor. Are you having Murphy or SEH call Revi @ N.W. Engineering to coordinate what they really need? Also, the ROE requests are temporarily on hold until we get responses to our concerns. Is the Real Estate Dept. aware we cannot proceed until these concerns are addressed?

Jim Pokrajac

--- Original Message ---
From: Samara, Imad LRC
To: Little Calumet (E-mail)
Sent: Thursday, January 17, 2002 12:44 PM
Subject: Jim Phone Call

Jim, I will be tied up for the next 2 weeks especially, for the next 2 days. The next 2 days I will be working on the budget testimony for FY 03 and next 2 weeks on getting responses to the items faxed to me by your office. I do have a deadline of Feb 7 to get this task complete. Please if you have any question instead of leaving me a message on the phone please write me an email and I will get back to you. This way also you have something in writing from me.

Imad N. Samara
Project Manager
111 N Canal Street
Chicago, IL  60606
312-353-6400 Ext 1809
Fax: 312-353-4256
Jim, as you have requested... Project Progress Update: 1-28-02

**Pump Rehab 1B Contract C-0035 (Thieneman Const.)**
81st Station - 99%+- complete to date.
1. As-built drawings have been returned to the contractor and the COE is awaiting the final as-builts on disk and Mylar’s from the contractor.
2. All "on-site" contract work is 100% complete.

S.E. Hessville Station - 99%+- complete to date.
1. As-built drawings have been returned to the contractor and the COE is awaiting the final as-builts on disk and Mylar’s from the contractor.
2. All "on-site" contract work is 100% complete.

**Pump Rehab 1A Contract C-0001 (Overstreet Electric Co.)**

Baring Ave Pump Station - 5%+- Complete.
1. Concrete electrical MCC equipment pad has been constructed.
2. Two pumps and motors have been received and are being stored.

South Kennedy Ave Pump Station - 10%+- Complete.
1. One pump has been removed and is being factory tested.
2. New flap valves have been installed and a portion of the 8" DWP discharge pipe has been removed.
3. Concrete electrical equipment pads have been constructed.

Hochman/Munster Pump Station- 20%+- Complete.
1. One new motor, new pump (SWP-2), and its associated piping are being installed.
2. New electrical installation continues.
3. Two standby pumps are installed and ready for operation, if needed.
4. Two pumps and motors have been received and are being stored.
5. New MCC has been installed.
6. Discharge box modifications (concrete) continue.
7. A portion of ventilation ductwork has been removed and new will be installed soon.

Walnut Ave. Pump Station - 15%+- Complete.
1. Viking Engineering has removed three pumps are they are currently being rebuilt by Viking Technology and should be ready for factory testing soon.
2. New MCC and various electrical conduit installation continues.

**North 5th Pump Station Rehab Contract C-0008 (Overstreet Engineering & Const.)**
N.5th. Pump Station - 10%+- Complete.
1. Sub contractor "Piping Technologies" has removed the DWP-1 and DWP-2 pumps & motors including their associated piping.
3. Electricians have removed various electrical items and are preparing to install new.
4. Overstreet will be submitting a VECP (Value Engineering Cost Proposal) for the elimination of the concrete encased electrical duct bank and new routing of the secondary to the station.
5. New flap valves and gate valves (DWP-1 and DWP-2) are being installed.
6. Exterior concrete work, above the discharge boxes, continues to be laid out.

See ya,
Bob
Sandy Mordus

From: "Littlecall" <littlecall@nirc.org>
To: "Samara, Imad LRC" <Imad.Samara@lrc02.usace.army.mil>
Cc: "Plachta, Jan S LRC" <Jan.S.Plachta@lrc02.usace.army.mil>; <LCasale@owlawfirm.com>
Sent: Friday, January 11, 2002 3:52 PM
Subject: Re: Utility information

Imad:
To clarify the status request of west reach utilities, I would like to reiterate that all we need for Stage VI-1, Stage VI-2 and Stage V-2 is a list of all utilities that need to be relocated for each project along with their engineering drawings of what is required to do this relocation and their cost estimate that has been reviewed and approved by the COE for each item in order that we may proceed with individual agreements. We understand the difficulty in obtaining this information so much in advance that the utilities are not addressing these as their top priorities. If I can emphasize to them that we would be entering into agreements shortly, we might be able to obtain whatever information from these utilities that is required. In the past, I have expressed the importance that utility relocations are required for a right-of-entry and are needed to complete this right-of-entry just as all land acquisition parcels. Being that Stage VI-1 and VI-2 are already progressing with land acquisition, I feel that we need, particularly, Stage VI-1 and VI-2 utility information as soon as possible in order that we may proceed on a parallel course.

As per your suggestion, I will be available for a 10:30 conference call on January 15th to discuss the same issues that I have included in this email. Any questions regarding this may be directed to me.

Jim Pokrajac

----- Original Message ----- 
From: Samara, Imad LRC 
To: 'Little Calument' 
Cc: Plachta, Jan S LRC 
Sent: Friday, January 11, 2002 12:38 PM 
Subject: Utility information 

Jim I would like to still have a conference call regarding the information that Jan will send you. I would like to make sure that the information you get is what is needed. I would have to say that I feel you keep asking for the same information and we give it to you again. So let’s talk to you about what we are sending you. I know that Jim F is on vacation but we really need to talk about the format of the status sheet you want. I would like to have a conference call with you next Tuesday at 10:30, by then Jan will email you the status sheets so that we can talk about it. Please let me know if you are available.

Imad N. Samara
Project Manager
111 N Canal Street
Chicago, IL 60606
312-353-8400 Ext 1809
Fax: 312-353-4256
Sandy Mordus

From: "Samara, Imad LRC" <Imad.Samara@lrc02.usace.army.mil>
To: "Sandy Mordus" <smordus@nirpc.org>
Cc: "Valk, Donald R LRC" <Donald.R.Valk@lrc02.usace.army.mil>; "Spokane, Chrystal L LRC" <Chrystal.L.Spokane@lrc02.usace.army.mil>
Sent: Wednesday, January 23, 2002 9:42 AM
Subject: RE: Stage VIII utility relocations

Jim, the only way something is determined creditable if the utility provides ownership documents and Lou and Don agree it is creditable. I can't tell you from the start it is creditable. If the utility is insisting on an agreement then you can go into an agreement that includes a legal determination by the commission and approved by the COE that the cost is creditable.

----Original Message----
From: Sandy Mordus [mailto:smordus@nirpc.org]
Sent: Tuesday, January 22, 2002 4:43 PM
To: Samara, Imad LRC
Subject: Stage VIII utility relocations

Imad:

We have recently been requested by SEH Engineering (A/E for Stage VIII) to find out if engineering fees by the utilities are reimbursable. Should we enter into an agreement with each utility and reimburse them upon completion of providing this information to the A/E? If we do pay for this, is it treated as a utility relocation and will it be creditable? If it is creditable, please send a memorandum to us for our files indicating that this will be the case.

Jim Pokrajac
Mr. Ronald E. Webb
Hanson Professional Services Inc.
3125 Dandy Trail, Suite 100
Indianapolis, Indiana 46214-1402

Dear Mr. Webb:

Thank you for submitting us information regarding your plans with INDOT for improving the Borman Expressway from the Illinois state line past Clay Street in Indiana. As Executive Director for the Little Calumet River Basin Development Commission (LCRBDC), I have enclosed some information to familiarize you with the Little Calumet River Flood Control/Recreation project. We have been working with the Army Corps of Engineers (COE) since 1986. We are the local sponsor who has the responsibility to purchase lands, easements, rights-of-way; accomplish utility relocations required; accomplish any highway/bridge modifications needed for the project; to provide 5% cash contribution of the total construction cost. In addition, we are required to assume responsibility for operations and maintenance of the flood control project upon its completion. The Corps has the responsibility to provide design and oversee construction of the project. Currently, we have substantially completed the construction from Cline Avenue eastward to I-65. The construction from Cline Avenue to the Illinois state line is scheduled to start in the fall of 2003 and be completed in the fall of 2010 based upon state funding. This new construction will start at Cline Avenue and work westward to the state line in a series of six (6) contracts and will also include complete rehabilitation of a series of existing pump stations along the river.

We would ask that you coordinate all engineering with the Chicago Army Corps of Engineers through their project manager:

Imad Samara, Project Manager
U.S. Army Corps of Engineers
111 N. Canal Street
Chicago, Illinois 60606-7206
Phone 1/312-353-6400 Ext. 1809
Fax # 1/312-353-4256
Email: Imad.samara@usace.army.mil
Mr. Ronald Webb  
January 31, 2002  
Page 2

In a very general response we have, concerns east of Cline Avenue at a series of interchanges, or overpasses, where we have already completed our line of protection and need to assure that at no time during construction will you ever degrade this construction to any lower elevation, or interrupt drainage flow to any of the culverts or sluice gates. It may also be necessary to coordinate with the COE field personnel to assure that when you have completed construction for the Borman Expressway, we could participate in the inspections to assure that the flood protection system is in at least the same condition as when you entered onto the sites.

Grant Street and Broadway Street interchanges are both tied into our system, and we currently have levees tied into Harrison Street, Georgia Street (as well as the new culverts installed under the Borman east of Georgia Street), and Martin Luther King Drive. There may be other impacts along your right-of-way with drainage issues that will need hydrology coordination with the COE.

We also have a local concern regarding drainage runoff from the highway and the quality of this water that would include petroleum products. We have landscaped and coordinated mitigation enhancements with the IDNR and IDEM to encourage wildlife and wetland restoration in adjacent areas to your right-of-way and we are concerned what design and precautions will be done to prevent environmental contamination throughout our project area. One particular concern is the potential impact to the Carlson-OxBow Park from runoff. This park is a joint Federal/state/local effort and unacceptable runoff would severely impact the natural features and wetlands park. We need to know your particular design details that addresses this concern. The particular person raising some of these concerns is one of the Commission board members, Curt Vosti, who is also the Hammond Parks Administrator – the managing agency of the park. We look forward to a response to our concerns.

If we may be of any further assistance, or answer any questions, please contact myself or Jim Pokrajac at 219/763-0696.

Sincerely,

Dan Gardner  
Executive Director

/sjm
encl.

ce: Imad Samara, COE
January 14, 2002

Mr. Imad Samara
U.S. Army Corps of Engineers
111 N. Canal Street
Chicago, Illinois  60606-7206

Dear Imad:

Enclosed are a number of items that have been brought to your attention either recently or within the last several years regarding various issues we feel are critical to the project. We have listed these in order of their importance. Priority “A” (p.1) must be dealt with immediately. Priority “B” (p.2-3) are important issues which we have previously submitted but have never received a response and we feel are critical to helping move the project along in a timely and efficient manner. Ongoing Project Concerns (p.4) and the Outstanding Technical Issues (p.5) are not a priority but have been previously submitted or discussed and we never received a response or resolution. We also listed several outstanding technical issues that we feel need more discussion.

As we have previously discussed with you regarding these issues, we have been instructed by our Board of Commissioners at the January 3rd Board meeting to have answers to these issues or at least the status of what has been done, and when they will be responded to. We understand that at the upcoming Commission meeting on February 7, Deputy District Engineer Ray Coughenour will be attending and we think these issues will be one of the main topic of discussion at that meeting.

Please call so we may coordinate with you for the upcoming meeting with Ray and our Board members.

Sincerely,

[Signature]
Dan Gardner
Executive Director

Cc: Ray Coughenour
    LCRBDC members
    Jim Flora, R. W. Armstrong
January 30, 2002

Programs and Project Management

Mr. Dan Gardner, Executive Director  
Little Calumet River Basin Development Commission  
6100 Southport Road  
Portage, Indiana 46368

Dear Mr. Gardner,

As requested in your letter dated 6 December 2001, our Engineering Staff has reviewed the Tentative List of Cost Savings Items reviewed by your Engineering Committee. The responses include an evaluation of the proposal by the various technical specialist, as well as recommendations and further technical requirements to implement the suggested changes.

I would suggest that once your Engineering Committee and staff members have had a chance to review the responses prepared by our technical staff, that you contact me at 312-353-6400 ext. 1809 so that we can set up a meeting to discuss these items.

Sincerely,

[Signature]

Imad N. Samara  
Project Manager

Enclosures
Evaluation of Conceptual VE Proposals

Summary of Recommendations/Issues

A synopsis of the Chicago District Review of the Conceptual VE study presented by the Little Calumet River Basin Development Commission’s Engineering Committee is presented in the first two pages of this response. The following pages include detailed responses from the technical disciplines on each of the four VE issues.

VE Issue (1)-Stage VI. Realignment of levee with possible levee construction in the channel, with possible dredging, with possible material removal from the Old Highland Dump.

Summary of Recommendations
(1) Construction of a levee section into the channel is not recommended based on several factors:
♦ Steepness of the existing banks and channel slopes.
♦ Fill into or dredging of the channel would require permits and likely new NEPA coordination.
♦ Sediment is polluted and may require special handling (including de-watering) prior to disposal in a landfill. Extensive testing may be required for dredging as well as disposal.
♦ Disposal costs are local sponsor costs.

(2) Intrusion into the Old Highland Dump site is not recommended based on several factors:
♦ Groundwater contamination was determined based on recent testing at the site (QST/COE 1997)
♦ Material removed may require special disposal.
♦ Disposal costs are local sponsor costs.

VE Issue (2)-Stage VIII Levee Alignment.

Summary of Recommendations
(1) Recommend that the 4 homes west of Hohman Avenue be removed from consideration within this study, as this issue is already being addressed through separate correspondence with the Commission.
(2) Do not concur that levee behind Southmoor homes should be replaced by fill to bring the embankment height up to the top of levee elevation.
(3) Concur that the levee alignment/choice of materials for Stage VIII should be re-evaluated and other reasonable options considered.

VE Issue (3) - Stage V-2, Woodmar Country Club - tie-back levee and easements instead of riverbank levee.
Summary of Recommendations

Summary of Recommendations
The VE concept may warrant further investigation by the Sponsor's Committee, but there may be little or no cost savings associated with this plan.
(1) Tie-back levees of around 1 mile would be required to replace the riverbank levees.
(2) Real Estate would be required from Woodmar CC to construct the tie-back levees.
(3) A flowage easement would likely be required up to elevation 604 - the height of induced flooding with the project and Control Structure in Place.

VE Issue (4) Clay Borrow.

Summary of Recommendations
(1) Concur with the recommendation to utilize Doughman borrow site with reservations noted in enclosed detailed responses.
MEETING NOTICE

SPECIAL MEETING SESSION
FOR ALL COMMISSIONERS
To discuss goals and objectives for the coming year and
any other items pertinent to the operation of the
Commission

4:30 P.M. MONDAY
FEBRUARY 4, 2002

FINANCE/POLICY
COMMITTEE MEETING
WILL MEET AT 3:30 P.M. SAME DAY
(ANY COMMISSIONER INTERESTED IN
ATTENDING THIS COMMITTEE MEETING
IS INVITED)

(Regular Board meeting is still scheduled for
Thursday, February 7, 2002)

COMMISSION OFFICE
6100 SOUTHPORT ROAD
PORTAGE IN

Please RSVP your attendance to Sandy
(219/763-0696)
To: Committee members George Carlson, Emerson Delaney, Bob Huffman, Mark Reskin and Bill Tanke

From: Jim Pokrajac, Agent, Land Management/Engineering

**Engineering Committee meeting**

9:00 a.m. Friday

February 15, 2002

LCRBDC Office

6100 Southport Road

Portage, IN

The intent of this meeting is to discuss, primarily, 3 separate engineering issues. These issues are as follows:

1. The response to the Greeley & Hanson engineering request (on behalf of the Gary Sanitary District as their engineering consultant). This is important to review because the GSD will not even discuss the potential of their participation in any future O&M items, which includes the 4 pump stations we have already constructed in the east reach.

2. The VE issues that we had compiled from our November 13, 2001 engineering committee meeting will be discussed. We had a meeting with the COE on February 2, 2002 to review and discuss the economic feasibility of these issues. This will be imperative to discuss being that the COE has offered some alternatives to our suggestion and currently, new tasks have been assigned.

3. The outstanding issues that the LCRBDC had presented to the COE on January 14, 2002 were responded to on February 7, 2002 (the afternoon of our Commission meeting). We would like to review and discuss Imad’s response to our concerns.

This will be the guideline for our meeting. We appreciate you being able to attend and if you have any questions between now and the meeting, please call me.

cc: Arlene Colvin, Steve Davis, John Mroczkowski, Bob Marszalek, Curt Vosti, Marion Williams, and Jim Flora