RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

January 26, 1987

Subject: Monitoring Report #226

City of Flint Improvement Program

Flint, Michigan

Project: 83:14

Date of Monitoring: January 12, 1987 (working day 772)

Actions taken:

- Monitored and evaluated progress on EDA grant and design work for Oak Park Industrial Park
- Revised project FASER with DCD and City administrative staff
- Reviewed and evaluated progress on city garage addition
- Reviewed and evaluated current status of Bishop Airport CFR building
- Reviewed and evaluated current status of senior citizen center (Hasselbring Park)

City of Flint Oak Park Industrial District

Those attending were: Ray Vyvyan - Building inspection George Ursuy - DCD Don Berry - DPW Don Sowel - Consumers Power Marv Rouseel - DPW Ralph J. Stephenson - Consultant

At this session we concentrated our efforts on identifying the method by which public area site improvement (PASI) documents were to be prepared and utilized in relation to the grant funding for the program. Presently the city is completing preparation of a full EDA application and expects to submit it on January 19, 1987 (working day 777). Processing the application is expected to continue through to late April, probably April 27, 1987 (working day 847), when project funds could be released. We assumed there will be a council meeting on April 27, 1987 (working day 847) and worked back to determine the time table for preparation for contract documents. This indicated that these documents should be completed by early March, 1987, then reviewed with the Michigen Transportation for approval, after which they will be submitted to the EDA regional office for final approval.

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Advertising for proposals is expected to be done by March 23, 1987 (working day 822). Proposals will be received by April 22, 1987 (working day 844), and after a review and selection period, the council is to be asked for approval and authorization of an award of contract at the council meeting of April 27, 1987 (working day 847). Construction should be able to start in early May, 1987 and be complete within one year.

Contract documents are to be assembled generally in packages outlined in Monitoring Report #225 dated December 27, 1986 on pages 2 and 3. The refurbishing of Saginaw Street from Parkland to Leith shown in that package #5 will be moved to package #2. There were some discussions about how the drawings should be issued for proposals, and later in the day it was mentioned by Mr. Roussel that probably two separate packages of drawings would be prepared for contractor proposals. There was not time to evaluate this matter further and we should plan to closely monitor progress on these packages at our subsequent meetings.

A critical element is to insure that all agencies that must review the documents, are provided the necessary information in a timely manner so no delays are encountered once the grant has been approved.

Presently the network model being followed for release of this work is shown on sheet #164A issue #8 dated January 12, 1987 (working day 772). We shall continue to monitor and update this network at subsequent sessions.

Of extreme importance also is the detailed planning of individual construction programs. To review there are 6 of these:

Package #1 - Clearing and grubbing Package #2 - Dartmouth Street Package #3 - Baker Street Package #4 - Newall Street Package #5 - Leith Street Package #6 - Landscaping work for 1987

As noted earlier these may be consolidated into a fewer number of contract document releases.

Flint Area Economic Development Program

At the morning session I met with the representatives of the DCD, the DPW, and the administrative officers of the city to review methods by which citizen and business involvement in economic development for the Flint area could be encouraged.

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This is a separate program and therefore, will not be reported on here in detail.

The work on this project is of a task force nature and consists of a holding a limited number of working sessions with members of the business and public community in Flint and Genesee County. These sessions will be aimed at identifying specific projects which are to be encouraged that will lead to improved area economic health. It was stressed during this session today that the role of government in the Flint area is best considered as to provide a predictable public governmental environment within which the private enterprise, as well as other sectors in the economy, can develop and grow in a healthy and positive manner.

I shall continue to work on this program as the staff sees fit. However, due to its temporary nature and because of time commitments, my role will primarily be that of an intermittent project advisor. I shall, however, remain in touch with the DCD and the DPW to determine what future involvement is desired of me.

Detroit Street Fire Station

No monitoring or planning was done on this project at this session.

Repair Garage Addition

Those attending were: Glenn Shock - DPW Ray Vyvyan - Building inspection Les Beales - Project manager - Rhodes and Johnson Roy Albert - Architect Ralph J. Stephenson - Consultant

Monitored from sheet 169 issue #5 dated November 24, 1986 (working day 740).

Progress on the project has been fairly good and in general the building is now closed in with work proceeding on interior trades. The project was in such condition as to warrant an updating of the network model. Therefore, sheet 169 was updated to issue #6 dated January 12, 1987 (working day 772). In the updated network model the completion date is shown at March 11, 1987 (working day 814), a slippage over the date in the previous issue of February 27, 1987 (working day 806). This is a lag of about 8 working days. However, it does not appear to be critical and it is possible that some compression of interior work activities could bring the project back into the late February, 1987 completion range. Monitoring Report #226 City of Flint Improvement Program Page four

The slab on grade at the interior is to be poured out in the near future and will proceed concurrently with installation of interior work at other areas including studs, rough plumbing and electrical, HVAC work and interior gyp board installation. The updated network model was provided to those present. Additional copies are available as needed.

Crash Fire Rescue and Snow Removal Equipment Building

Those attending were:

Robert Hindley - Director of Aeronautics Ray Vyvyan - Building Inspection Marvin Roussel - DPW Nancy Cady - Forester Construction Ralph J. Stephenson - Consultant

Currently substructure concrete work is nearly complete with the last substructure pour to be made January 12, 1987 (working day 772). Structural steel is to be delivered February 16, 1987 (working day 797) and erection is to start on March 2, 1987 (working day 807). No authentic information was available on the exterior skin of the building.

The handicapped provisions are still in work with a letter having been written by the City of Flint to the state. However, there has been no response to this letter.

We further reviewed the operational requirements outlined in the previous Monitoring Report #225 dated December 27, 1986. There has been no discussion of these since the previous meeting on December 8, 1986 (working day 749). Mr. Hindley feels these are still important and intends to meet with the architect/engineer. City of Plint DPW contractor, and others involved to make a check as to whether the building satisfies the operational needs of the airport and its users. This meeting is to be held on Tuesday, January 20, 1987 (working day 778).

We also reviewed procurement in some detail. Full information was not totally available. However, Ms. Nancy Cady of Forester Construction did provide data about several items. A brief review of the information given the project team at this session is outlined below.

- Structural steel delivery to begin on February 16, 1987 (working day 797). Erection to start March 2, 1987 (working day 807).
- Steel joists joist shop drawings have been submitted but not yet approved. These were submitted on November 17, 198.6

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> (working day 735). Delivery may be in April, 1987. This is not yet confirmed.

- Precast concrete some shop drawings are submitted. No approvals as yet. This is an important item and materials could be delivered by early April if approvals are given promptly.
- Ground face block color selection for the block and morter has apparently not yet been made. This should be followed since masonry will be a critical item for closing in the building.
- Hardware no current word on delivery or status of revisions.
- Hollow metal frames and doors delivery of frames scheduled for April, 1987. This will be affected by hardware revisions and so hardware becomes a critical item in fabrication of the hollow metal. Door delivery is planned for July, 1987.
- Ceramic tile delivery still set for August 3, 1987 (working day 915). NOTE: If the building is to be completed by the present target date of September 3, 1987 (working day 938), it appears that delivery of ceramic tile is somewhat later than it should be.
- Color selections the contractor must still provide material samples to the architect/engineer. The color board has not yet been prepared.
- Toilet partitions no shop drawings submitted as yet. These should be watched.
- Acoustic materials no submittals provided as yet.
- Teraszo tile to be delivered August 3, 1987 (working day 915).
- Hose dryers shop drawings submitted and approved. No word on delivery.
- Overhead doors due to be delivered June 1, 1987 (working day 871).
- Fire alarm annunciator and fire alarm control panel shop drawings not yet submitted.

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- Vehicle repair hoist shop drawings not yet submitted.
- Exterior sash and glass shop drawings not yet submitted.
- Lockers shop drawings not yet submitted.
- Roof top units shop drawings have been submitted and approved. No current word on delivery.
- Switchgear no submittals provided as yet.
- Fuel tanks shop drawings submitted January 7, 1987 (working day 769).
- Appliances submittals not yet approved.
- Flagpole no submittals made as yet.
- Resilient tile no submittals made as yet.

Overall, it appears that procurement of critical items on the project is lagging. I strongly recommend that at a near future meeting we prepare a network model of this project to get a better handle on the construction sequence and completion dates. There is apparently enough information available to complete the diagram for the job and it must be determined by the project team when and how this is best done. I strongly recommend a plan of work be prepared if the project is to be tracked as it should be. Present monitoring of a project is difficult from the information available since there is no well defined schedule that can be used with confidence.

We briefly discussed the definition of a resident engineer and apparently Mr. Miller of the architect's office has concurred with the definition provided by Mr. Hindley. This matter is now being handled between Mr. Hindley and the architect/engineer.

Hasselbring Community Center

Those attending:

Rudy Hozak - Parks Department Ray Vyvyan - Building inspection Ralph J. Stephenson - Consultant

Monitored from sheet 170 issue #4 dated October 2, 1986 (working day 703).

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The project is moving reasonably well with most of the superstructure and close in complete and the interior of the building now protected from weather. Interior partitions are in work although no ceilings have been installed and no painting has begun.

The current lag over the network model is about 14 working days. Therefore, it was decided to update the network diagram. This was done resulting in sheet 170 issue #5 dated January 12, 1987 (working day 772). In this network model it appears now that the completion date is February 17, 1987 (working day 798) for contractor work and two weeks later, or on March 3, 1987 (working day 808) for owner installation. Apparently this is satisfactory to the owner.

Site work yet to be installed includes:

- post and cable work
- concrete drive approach
- new sidewalk at west end of building (some questions exists as to whether this sidewalk is included or not).
- pipe entrance gate
- handicapped signs
- woven wire fencing modifications at the entrance drive.

There still is some building and site work not yet funded. Funding is being made available as it is acquired. There is also some revisions in work at present and these are being issued as they are available.

General

There is some question as to the date of our next session. I shall be in touch with Mr. Vyvyan in the near future to establish this. Meanwhile, he will prepare a tentative agenda and distribute it when the date as been set.

Ralph J. Stephenson, P.E.

March 11, 1987

Subject: Monitoring Report #227

City of Flint Improvement Program

Flint, Michigan

Project: 83:14

Date of Monitoring: March 5, 1987 (working day 810)

Actions taken:

- Monitored and evaluated progress on EDA grant and design work for East Oak Park Industrial Park (EOPI)
- Updated EDA funding network for East Oak Park Industrial Park
- Monitored current status of Detroit Street Fire Station
- Reviewed and evaluated progress on city garage addition
- Reviewed and evaluated current status of Bishop Airport CFR Building
- Briefly reviewed current status of senior citizen center (Hasselbring Park)
- Inspected Detroit Street Fire Station

City of Flint Oak Park Industrial District

Those attending:

Ray Vyvyan - City of Flint DPW Marv Roussel - DPW Kathy Stoughton - DCD Rudy Hozak - Parks and Recreation Don Sowle - Consumers Power Denise Hopkins - DCD Ralph J. Stephenson - Consultant

The EDA application has been submitted and is currently being reviewed by EDA. Minor revisions were made necessary by a reallocation of scope of work items. However, this should not delay processing and the Washington office of EDA is expected to provide approval at an early finish of April 1, 1987 (working day 829).

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Part of the scope changes concern division of the project into two sections; EOIP #1 and EOIP #2.

EOIP #1 includes work on Leith, Taylor, and Saginaw. It does not require EDA approval.

EOIP #2 includes work on Baker, Dartmouth, Parkland, Dayton, Warren, and Newell. EOIP #2 contract documents must be approved by EDA. Our updated network model reflects sequencing for both EOIP #1 and EOIP #2.

For #1 it is expected that contract documents will be issued for proposals on March 12, 1987 (working day 815). Proposals are to be received by April 2, 1987 (working day 830) and submitted to council on April 13, 1987 (working day 837). This should allow construction to start on EOIP #1 PASI (public area site improvements) by May 4, 1987 (working day 852). Completion is targeted for September 1, 1987 (working day 936).

Contract documents for EOIP #2 will be submitted to the EDA regional office on March 13, 1987 (working day 816). It is expected that they can be issued for proposals on March 25, 1987 (working day 824). Proposals will be due in April 23, 1987 (working day 845). Council's approval of proposals will be at their meeting on May 11, 1987 (working day 857). This should allow construction to begin by June 2, 1987 (working day 872). Current projected completion of construction is in early October, 1987.

However, Mr. Rouseel would like to finish earlier and has set an informal target of September 1, 1987 (working day 936), the same as for work under EOIP #1. The logic plan is shown on sheet 164A, issue #9, dated March 5, 1987 (working day 810).

It should be noted that there is still some further definition of scope of work needed, particularly with landscaping and berm items. These apparently have not yet been fully clarified to all parties on the project. Notes were taken at the session concerning the scope of work, general progress, and the projected schedule of dates. These notes were made available to those involved. Some were distributed at the meeting. Those who have not received them may have them by request to Mr. Vyvyan.

Detroit Street Fire Station

Those attending:

Phil Masson - Flint Fire Department Maintenance Supervisor Ray Vyvyan - Building Inspection Ralph J. Stephenson - Consultant

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(Evaluated from network model for possible plan of work sheet FS2-1, issue #2, dated November 24, 1986 (working day 740). It should be noted that this is not an official monitoring document and was prepared primarily to guide evaluation of the project for the City of Flint. It is not intended to represent a plan of work to guide or direct the contractors or the construction manager in their work.)

The network model on sheet FS2 showed a clean up and move out date for the contractor on base building work, by February 13, 1987 (working day 796). Currently the work as noted in our meeting and in the field, appears to lag by about 20 to 22 working days. This would put projected completion of base building work at about March 17, 1987 (working day 818). Owner's work will probably extend about another 10 working days past this point to give a gull completion and occupancy date by March 31, 1987 (working day 828).

It was not possible to review these status figures with those on the project since they were not present at the session. In a later visit to the job Mr. Vyvyan and I had a brief conversation with the contractor's superintendent. However, he was relatively new on the job and was not able to provide authentic information about projected completion dates.

At present the parking lot leveling course has been installed, however, no wearing course has yet placed. There is no landscaping yet installed, nor is the parking lot striping in place. Fuel tanks are installed but apparently the fuel pumps are not.

The building is generally closed to weather although there still is a fair amount of caulking and sealing to do around frames and other exterior openings.

Interior work is complete except for

- plumbing fixtures
- lockers
- toilet partitions
- ceramic tile
- carpet
- mechanical and electrical trim
- resilient tile
- painting touch up
- clean up

Owner work has not yet begun, although some preliminary steps have been taken to get this into the field.

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Vacation of the existing fire station #2 was to have been February 28, 1987 (working day 807). There was no word available on what the status of the turnover of this station to the new occupant is. This matter should be checked carefully.

There has been a request, informally, for a final inspection by the building department about mid March, 1987. Again, there was no further data on the project than that provided by those attending the meeting.

Repair Garage Addition

Those attending:

Glenn Shock - DPW in charge of garage Ray Vyvyan - Building Inspection Director Les Beales - Project Manager R/J David VanWagnen - Superintendent for R/J Ralph J. Stephenson - Consultant

The building is fully closed to the weather and is now moving into its closing work phase. Final inspection of the project will probably be by March 11, 1987 (working day 821).

There are still some contractor items to be completed. These include:

- outside roof conductors
- miscellaneous painting
- hook up of air lines to hoist
- lockers

ear -

- plumbing fixtures
- toilet partitions

Owner work is also in progress but there is expected to be no difficulty in completing it by the move-in date.

Overall, the project has moved well, and reasonably close adherence to the current network models has been maintained through the project.

Crash Fire Rescue and Snow Removal Equipment Building

Those attending:

Ray Vyvyan - Building Inspection

Robert Root - Forester Construction

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Marvin Roussel - DPW Evelyn Peterson - Bishop International Airport Ralph J. Stephenson - Consultant

Currently structure steel is completed, plumbed, and bolted. Metal deck is being erected.

Exterior skin work, including twin Ts, has not yet begun. The project was shut down about February 20, 1987 due to difficulty of access to the site. There is no current word on when work will resume at the project.

The discussion at our meeting primarily revolved around present projected target end dates and the validity of current schedules. Because of the difficulty of maintaining close contact with project progress and because of the site access problems, I suggest we seriously consider preparing a network model of the project.

The contractor has prepared a schedule of what he anticipates will be done. However, this document does not provide the full information needed for close monitoring required on critical projects of this type. A major consideration relative to additional planning should be the actual need for the building. If the facility is critical an accurate plan of work is necessary to properly evaluate and guage performance.

We discussed the matter of additional planning and scheduling briefly at our session, and it was generally agreed it might be best for Mr. Vyvyan and me to prepare a network model by which progress could be tracked, and to review it regularly with the contractor. This network would not be for directing or indicating to the contractor a plan of work that he was required to follow. However, there is definitely a need for some type of document against which progress can be evaluated and delays simulated to determine their impact.

Some time ago it was decided that the operational requirements of the project should be checked carefully. A meeting was held by Mr. Hindley in mid January with the architect/engineer and the architect was to review the operational discussion and prepare bulletins for pricing in case revisions might be necessary. There is, as yet, no word on this matter from the architect/engineer. I suggest that this matter be followed carefully since the building has a specific and essential operational role to play at the airport. It must be operationally sound.

In our notes for this meeting a list of those items that deal with the operational characteristics of the project was provided. Monitoring Report #227 City of Flint Improvement Program Page six

We also discussed procurement in detail since there seems to be major concerns about delays, poor communication, and other potential difficulties in procurement. A full review of this matter is contained in the notes of the meeting under item 3.6 on page 2.

The items discussed under procurement are briefly summarized below.

- Precast concrete all shop drawings submitted and approved. Material being fabricated. To be delivered April 1, 1987 (working day 829). Need access to the site.
- Ground faced block no approvals on block submittals have been provided as yet. Glazed block and ground block delivery is 8 to 10 weeks after approval.
- Hardware contractor requested a bulletin for hardware revisions on January 7, 1987 (working day 769). There is no current word on where this matter stands.
- Hollow metal frames and doors shop drawings are not yet approved. This item is a critical item, and the hardware problems attendent to hollow metal must be resolved quickly. Frames will be needed as soon as masonry starts in mid or late April, 1987.
- Ceramic tile no colors have been selected as yet. There have been some very serious difficulties in getting approvals on colors.
- Toilet partitions have been approved. No color selection as yet.
- Acoustic materials submittals in. No approvals yet.
- Terazso tile has been submitted. Not yet approved.
- Hose dryers no current word on delivery.
- Overhead doors shop drawings were submitted on December 10, 1986 (working day 751). Were returned, not approved. The contractor is now presently trying to find another supplier. Changes may be made to the operational system for the doors. This is part of the discussions that are so critical as noted above.
- Fire alarm annumciator and fire alarm control panel shop drawings have been submitted to the architect/engineer, however, it may be that they will have to be also submitted to the Flint Fire Department. Mr. Roussel will follow this matter.
- Air compressor existing air compressor is to be relocated. No problems.

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- Vehicle repair hoist shop drawings were submitted just recently.
- Exterior sash and glass submittals were provided to the architect/engineer early in March, 1987. No approval as yet.
- Lockers not submitted as yet. Should check to determine lead times required.
- Roof top units shop drawings have been submitted and approved. No word on delivery.
- Switchgear shop drawings have been submitted. No approval as yet.
- Fuel tanks shop drawings were submitted January 7, 1987 (working day 769). Were disapproved and are to be resubmitted.
- Appliances submittals are in. Need color selection.
- Flagpole submittals are in. No approval as yet.
- Resilient tile samples are submitted. No approvals as yet.

The discussion indicated today that there has been somewhat of a slow response on revisions and color selections. This matter should be taken under consideration just as quickly as possible.

We also reviewed possible methods of gaining construction access to the site including graveling a temporary road. However, cost seems to be a major factor here and careful thinking of this matter is to be done by all parties involved to see if it is worth the additional costs that will be required to gain early access.

We also reviewed briefly the phasing in conjunction with other work and it appears that probably the new parking areas that were hoped to be gained by construction of the new building, and vacation of the old will not be achieved this year.

Hasselbring Community Center

No formal meeting was held re this project at our session. However, informal discussions with Mr. Rudy Hozak of the Department of Parks and Recreation indicates that the building is very nearly complete and that move in is expected in the immediate future. We probably will not have to monitor this project any further.

General

Mr. Vyvyan will prepare and distribute the agenda for our next meeting.

RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

April 10, 1987

Subject: Monitoring Report #228

City of Flint Improvement Program

Flint, Michigan

Project: 83:14

Date of Monitoring: March 23, 1987 (working day 822)

Actions taken:

- Reviewed current status of Bishop Airport CFR-SRE Building
- Monitored and evaluated progress on East Oak Park Industrial Park
- Field inspected Hasselbring Community Center
- Field inspected Detroit Street Fire Station #2

Crash Fire Rescue and Snow Removal Equipment Building at Bishop Airport

Monitored from: Close in diagram, issue #1, dated January 12, 1987 (working day 772), sheet 173.

Those attending:

Steve Hill - Deputy City Administrator - in meeting part time Ken Collard - DPW Director - in meeting part time Don Berry - City Engineer Robert Hidley - Director of Aeronautics, Bishop Airport in meeting part time Ray Vyvyan - Building Inspection Marvin L. Roussel - DPW Tom MacCullum - Michigan Bell Telephone Ralph J. Stephenson - Consultant

The stop work order which was put on the job about mid February. 1987 is still in effect and there has been no major field progress since our previous meeting. There seems to still be some problem with access to the site. However, Mr. Hidley says this is not totally true since the site has been accessible for about 2 weeks. In any event, attention must be given in the very near future to officially releasing this project so that construction can resume. Monitoring Report #228 City of Flint Improvement Program Page two

The network model for close in work, sheet #173, issue #1, dated January 12, 1987 (working day 772) showed that the twin T exterior panels were to be started by May 1, 1987 (working day 851) and that the building was to be substantially closed to weather and the slab on grade completed no later than June 1, 1987 (working day 871). This is a fairly late date to close the building in if occupancy is desired in early September, 1987. However, since there is no current schedule or network plan that will allow us to make an accurate evaluation of work, any progress analysis is very difficult.

If this project is a high priority program and is to be monitored carefully, I strongly recommend that a network model be prepared of the total project with the participation of all concerned. A judgment on this should be made soon by those responsible for bringing the project on line.

The present characteristics of the project indicate that some strong directive staffing at the ownership level would be of help in clarifying needs and progress expected on the job. Since there are many organizations involved, this may be somewhat difficult. A list of those connected with the job currently include:

- Michigan Department of Transportation
- Michigan Aeronautics Commission
- Flint Department of Aeronautics
- Federal Aviation Administration
- Flint Department of Public Works-on a technical testing and involvement only
- Madison & Madison Architects and engineers of record
- Rowe Engineering retained by Madison & Madison for field administration
- Forrester Construction (Contractors retained by the City of Flint and the Michigan Department of Transportation)

It can be seen that there are a multitude of different organizations each having a portion of the job, and it is apparent now that some strong direction must be given by the most affected of this group, probably the ultimate decision makers, relative to how the work is to proceed in the near future. I emphasized this point with all attending the meeting and there is some evidence that a management structure will be provided soon to allow better official direction and attention to be given than may be possible at present. I recommend this matter be followed to its conclusion now since any construction that does not proceed at this time is Nonitoring Report #228 City of Flint Improvement Program Page three

lost. Our weather has been exceptionally good this spring and full advantage must be taken to move construction ahead in the field.

Meanwhile, there are some problems with procurement and also with field administration. In the field administration area the field administrator is currently reconsidering their involvement in the project and a decision on involvement will be made by them in the near future.

A procurement difficulty presently is in preparation of a color board. Apparently this was not included in the architect's agreement with the contract parties. However, the city has consented to pay the architect for preparing this color board and it will be put into work in the very near future. The contractor has apparently provided all samples required for this color board to be prepared. There have been some delays in getting underway with the color board and I was not able to identify what the cause of these were but suggest they be cleared away just as soon as possible.

Operational requirement of the project have been cleared and at present the status of these are as follows:

- Door controls will be designed by architect
- Alarm systems part of the door control installation
- Traffic patterns have been resolved
- Compressed air supply will use existing compressor
- Hose drying hose dryer has been deleted
- Exhaust from trucks in fire station no additional ventilation will be provided
- Water supply for filling trucks not to be installed
- Emergency power not to be installed
- Emergency lighting no additional will use currently specified battery operated
- Emergency heat for keeping trucks operational not to be installed
- Portable generators not to be used

It appears that operating characteristics problems have been cleared, although there still seems to be some difficulties in getting the paper work needed for processing and movement into the field. These types of items must be expedited if the project is to continue moving in the field.

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I again recommend that at a future meeting we consider preparing a network model for the job, dependent upon the needs, feelings, and attitudes of the various parties to the project. If this is to be done, it will be essential that those attending the meeting come prepared to provide a sequence of activities, and a scope of work to be diagrammed so that the information can be molded together into a network model.

Those elements needed to prepared a network model include:

- 1. a full list of the procurement status of all materials and equipment.
- 2. a definition either in writing or in the minds of those attending (preferably in writing) of the activity items needed to complete the job. These would encompass those activities needed for close in, underground work inside the building, slab on grade installation, rough interior work that can be installed and exposed to the weather, finish interior work that must be protected from the weather, systems work including equipment and connections, exterior work which allows the building to function with its surroundings, and a list of the owner's installation that must be accomplished once the building is ready for owner occupancy.

If this information is not available from those involved in directing and constructing the project, it is possible we could do a network plan based only upon the city staff's knowledge of the job. However, this is not a desirable process nor is it one that can be considered official on a project of this type. Therefore, I urge serious consideration of having the owner, the architect/engineer, and the contractor at a future meeting if it is the intent to do a network model for this project.

Subsequent to the meeting on March 23, 1987 (working day 822), I was provided a copy of a letter from the Department of Labor. State of Michigan from Ms. Kathleen Jo Steele. Chief of the Barrier Free Design Division, dated March 17, 1987 (working day 818) that said the project will be required to comply with all barrier free code sections including interior accessibility between floor levels and parking. Apparently this means that the building does not qualify under exemptions and must be brought into compliance or an exemption obtained from the Barrier Free Design Board. From the distribution by Mr. Vyvyan, it appears this letter has been sent to Mr. Rob Collier, Mr. Steven Hill, Mr. Ken Collard, Mr. Marvin Roussel, in addition to myself.

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East Oak Park Industrial Park Public Area Site Improvement (PASI)

Those attending:

Kathy Stoughton - DCD Denise Hopkins - DCD Tony Kublilek - DCD Ray Vyvyan - DPW Marvin Roussel - DPW Don Sowle - Consumers Power Ralph J. Stephenson - Consultant

Progress on the EDA application has been fairly good and at present the application is in Washington, being reviewed by the federal EDA office. It is presently expected the city council will be able to authorize, and the mayor execute the grant agreement, by their April 27, 1987 (working day 847) council meeting. Once that is done, the grant agreement will be the basis for releasing funds which hopefully will be available by the early part of May, 1987, with the council approving and authorizing the award of the EOIP #2 PASI contract at their meeting on May 11, 1987 (working day 857).

Meanwhile, EOIP #2 contract documents have been submitted to the EDA regional office and are being reviewed there now. It is hoped to advertise and receive proposals for a bid opening on April 23, 1987 (working day 845). An evaluation can then be made of the proposals, and a contractor recommended in time for the council meeting on May 11, 1987 (working day 857). This would allow a preconstruction meeting to be held, the contracts to be executed, and the notice to proceed on the work by June 2, 1987 (working day 872).

The contract documents for EOIP unit #1, which do not require EDA approval, have been prepared and issued and proposals are due back on April 2, 1987 (working day 830). These are expected to be evaluated and submitted with recommendations to the council for their meeting on April 13, 1987 (working day 837). A notice to proceed could be issued for EOIP work unit #1 and the contractor could be on the site by May 4, 1987 (working day 852).

Using these approximate dates as a base of further evaluation, we prepared construction network models for work on each of the major projects both for EOIP #1 and EOIP #2. To review, the content of each of these is as follows:

Contract documents for EOIP PASI unit #1 includes:

Leith Street Taylor Street Saginaw Street

Monitoring Report #228 City of Flint Improvement Program Page six

(NOTE - Unit #1 does not have to be approved by EDA)

Contract documents for unit #2 EOIP PASI work includes:

```
Baker Street
Dartmouth
Parkland
Dayton
Rankin
Warren
Newell
```

(NOTE - Unit #2 PASI work must be approved by EDA)

We prepared a detailed list of the activities under each of the street renovations in packages 1 and 2. These were put into a summary network model sheet 174, issue #1, dated March 23, 1987 (working day 822). This network model issue shows the logic plan generally desired by the DPW. The network was distributed to those currently concerned with the project. In it, is shown the major work items and the sequence of movement from street to street. In PASI unit #1, operations will start at Leith Street and is presently planned to be initiated May 4, 1987 (working day 852). This work will proceed through relocation of power poles, removal of curbs, gutters, and installation of underground utilities, after which work will move to Taylor.

Taylor Street is also a part of unit #1 work. Saginaw Street, also a part of unit #1, cannot be completed until after work on demolition is completed on Dartmouth. Therefore, the work on Saginaw will be one of the later items to be done.

In unit #2, operations will start at Baker Street, hopefully by June 2, 1987 (working day 872). This will follow work at Taylor Street on the major initiating operations. From Baker Street work will move to Newell and from Newell to Warren, and then from Warren to Dartmouth. The sequence of work has been reasonably well set and will be indicated as a sequence to be followed by the contractor involved.

As noted above, this summary network model was not quantified. At our next session I recommend we apply durations to this network and if any contracts have been let by that time, to involve the contractor in evaluating his sequence of work, the activity scope, and to indicate what durations are required for the activities involved. It is important that the network model become a document prepared and agreed to in conjunction with the contractor, recognizing his needs and desires. Monitoring Report #228 City of Flint Improvement Program Page seven

Presently, it appears that most of PASI work can be successfully completed in 1987, probably by late fall or early winter. This will then provide the city the East Oak Park Industrial Park area for disposition to developers and other potential users.

I suggest that an aggressive marketing effort be initiated, as quickly as possible to help knit together installation of public area site improvements, acquistion and vacation of the land, and further development of properties available. This should be initiated now so the property can be built upon just as quickly after PASI improvements are installed as possible.

Hasselbring Community Center

No formal meeting was held on the community center. However, Mr. Vyvyan and I inspected the project and walked the building. The project is at a point where the facility will be occupible in a very short period of time. Frobably 2 or 3 good days of work will bring the building to a point where it could be opened. However, there is no fine grading, subbase or paved parking areas available yet at the outside of the building.

There are other major elements of site work that also must be completed before the building is made accessible to pedestrian and vehicular traffic. The warm spring we have had has made it probable that site work could be constructed at a fairly early date, probably installed and completed by as early as mid or late April, 1987. There was no staff input to this monitoring, so therefore, the observations above are merely the results of the field inspection made by Mr. Vyvyan and myself.

Detroit Street Fire Station #2

No formal meeting was held re this project and the monitoring below was done from a field inspection of the facility by Mr. Vyvyan and myself. The project in the field is substantially at the general position as reported in the previous monitoring. There has been some additional interior finish work completed but there still remains enough work so that it will require from 5 to 10 working days (based upon past rates of field work) to bring the job to completion by the contracting forces.

There still remains the owner's installation to complete, and there is no accurate projection presently available on how long this might require. However, it appears that within the next few days, the project should be at a point where the owner could begin his installation.

Monitoring Report #228 City of Flint Improvement Program Page seven

A major element yet to be completed in the larger locker room space and this may take a fair amount of time if materials for it are not available.

Again, the project is close enough to being done so that any major planning must now be done on a day by day basis. We did not have the opportunity to confer with any supervisory staff on the job.

General

Mr. Vyvyan will prepare and circulate the agenda for our next session. I highly recommend we continue intensive evaluation of the Bishop Airport CFR Building, depending on its importance and relative criticality. The project is not in good predictable plan form at present and in my opinion needs careful management attention from the ownership group.

I also recommend that we continue our planning on the Oak Park Industrial Park work, quantifying the PASI units 1 and 2 network models and identifying a detailed plan of operational work to be followed this summer by the contractors and DPW.

Ralph J. Stephenson, P.E.

RJS:gmy TO: Mr. Ray Vyvyan

RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

e i ti ve taan da

May 7, 1987

Subject: Monitoring Report #229

City of Flint Improvement Program

Flint, Michigan

Project: 83:14

1. A. A.

Date of Monitoring: April 21, 1987 (working day 843)

Actions taken:

- Reviewed current status of East Oak Park Industrial Park
- Updated EDA grant network for East Oak Park Industrial Park
- Completed network model for construction of PASI work at East Oak Park Industrial Park
- Briefly inspected DPW garage
- Reviewed Bishop Airport CFR-SRE building progress
- Evaluated current CFR-SRE status

East Oak Park Industrial Park

Those attending:

Kathy Stoughton - DCD Denise Hopkins - DCD Ray Vyvyan - DPW Mike Mansfield - DFW Don Sowle - Consumers Power Ralph J. Stephenson - Consultant

The EDA application for PAST #2 work is still being reviewed by the Washington EDA office. There is no authentic word on when this review and approval will be complete. In our updating of the network model, we assumed that approval will be received in Flint in time for the council meeting on May 11, 1987 (working day 857).

There is some float time in this network model due to the need to wait for subsequent council meeting to approve award of contracts. However, it would be preferable to have city approval of the grant agreement in hand just as quickly as possible.

Monitoring Report #229 City of Flint Improvement Program Page two

Present planning is to have the funds available about May 21, 1987. Meanwhile, contract documents for PASI #2 are being reviewed and when the grant is approved, and when any minor changes needed are made, they can be issued for advertisement and proposals. Present expectations are that bids will be received by June 11, 1987 (working day 879) and that the council will be able to approve, authorize, and award a PASI #2 contract for East Oak Park Industrial Park at their June 22, 1987 meeting (working day 886). This should allow construction to begin by mid June, 1987 on phase 2 work.

Phase #2 work includes:

Baker Street Dartmouth Parkland Dayton Rankin Warren Newell

Contract documents for PASI phase 1 work have been issued, proposals have been received, the contractor selected, and construction is expected to begin by May 11, 1987 (working day 857). Work included in PASI 1 contract documents is for the following:

Leith Street

Taylor Street

Saginaw Street

It should be noted that the Saginaw Street work cannot be started in production until much of the phase 2 work has proceeded through removal of curbs and gutters and installation of some underground utility work. This phasing must be watched carefully in the contract administration.

In the PASI phase 2, three of the programs, Parkland, Rankin, and Dayton have been repackaged and put into a set-aside group.

The network model for taking the work to the point where construction could begin on both packages is shown on sheet #164A, issue #10, dated April 21, 1987 (working day 843). A copy of this network is enclosed with the monitoring report for additional distribution as might be required. Some copies were distributed at the meeting.

he also at this meeting completed the network model for construction of PASI phases 1 and 2 construction. This network is shown on sheet 174, issue #2, dated April 21, 1987 (working day 843). With the assistance of the DFW and the DCD, durations were assigned to the logic plan and the network was printed and distributed to those reMonitoring Report #229 City of Flint Improvement Program Page three

quiring copies at the meeting.

The dates, taken from the network model, indicate the following starting and completion points for each major element of the program.

Street	Early Start	Late Finish
Leith Street	May 4, 1987 (working day 852)	July 9, 1987 (working day 898)
Ta ylor Street	May 18, 1987 (working day 862)	September 1, 1987 (working day 936)
Baker Street	July 14, 1987 (working day 901)	August 27, 1987 (working day 933)
Newell Street	August 4, 1987 (working day 916)	October 1, 1987 (working day 957)
Warren Street	August 25, 1987 (working day 931)	October 8, 1987 (working day 962)
Dartmouth Street	September 1. 1987 (working day 936)	October 29, 1987 (working day 977)

The clean up and move out of Dartmouth activity duration was inadvertently left off the diagram activity. The completion date should be 1 working day later than the date shown. The actual plan completion date is October 29, 1987 (working day 977).

Saginaw Street	September 23, 1987 (working day 951)	October 22, 1987 (working day 972)
Parkland	September 23, 1987 (working day 951)	October 2, 1987 (working day 958)
Rankin	September 28, 1987 (working day 954)	October 6, 1987 (working day 960)
Dayton	October 1, 1987 (working day 957)	October 8. 1987 (working day 962)

The above are planned dates and still must be reviewed with the contractors involved. Also please note that the dates shown for starting are those for removal of curbs and gutters, excavation, and installation of underground utility work. Some public utility work such as for power poles may be started earlier.

RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

Monitoring Report #229 City of Flint Improvement Program Page four

I suggest that care be taken in the planning of the construction with the various contractors to insure that the necessary sequencing is adhered to so that utility service and traffic flow is maintained as desired throughout the project.

Crash Fire Rescue and Snow Removal Equipment Building at Bishop Airport

Those attending:

Rob Collier - Administrative Assistant - in meeting part time Ray Vyvyan - Building Inspection Nancy Cady - Forester Construction David Miller - Madison & Madison Ralph J. Stephenson - Consultant

The stop work order for field operations has not yet been lifted officially. However, work has restarted on the project as of April 21, 1987 (working day 843). Work had been stopped on February 16, 1987 (working day 797). So there was a total of 46 working days in which a stop work order was in effect. The addition of these 46 days to the current completion date, projected at September 3, 1987 (working day 938), now brings contract finish to November 9, 1987 (working day 984). These stop work orders for field operations must be watched carefully since the project is now extended out into another winter season and being faced with the same type of access problems that have delayed progress on the job to date.

The difficulty appears to be lack of an access road by which contractors can maintain a flow of work to and from a project site. There was no major discussion of this at our session today. However, it is an important item and should be given ongoing attention by all concerned.

Currently, there is a construction crane on the site and exterior precast panels began arriving on the job as of April 21, 1987 (working day 843). Panel erection will take approximately 22 working days, or less.

We had a major discussion about material and color selection, and procurement. The items were reviewed thoroughly in the temporary note file, printed at the session and distributed to those concerned. A brief review is given below.

- ground face block - color selection has been made but not submitted formally to the contractor. The color of the block has not yet been approved. The project should be ready for start of block in about 10 working days.

- soffits - soffit color submitted by the contractor was not available. It was resubmitted April 7. 1987 (working day

Monitoring Report #229 City of Flint Improvement Program Page five

833) and a color should be selected soon.

- Copings Color and material selected. It is not yet approved by the owner. (The owner when referred to in this discussion is the Flint Department of Aeronautics.)
- Sash and glass Sash color has been selected. Not yet approved by the owner. Glass color has not been selected.
- Roofing systems all approved.
- Doors Paint colors have been selected.
- Exterior skin colors can be made after block approval. Probably will be ready in about 5 working days.

We also spent considerable time discussing the status of procurement and a brief review of this matter is given below.

- Overhead doors shop drawings submitted and rejected. Delivery 40 working days after approval.
- Hoist at SRE shop drawings not submitted. Delivery 40 working days after approval.
- Ground face block delivery 20 working days after approval.
- Sash and glass shop drawings submitted but not approved. Delivery 60 working days after approval.
- Roofing submitted and approved. Materials will be on job by May 1, 1987 (working day 851).
- Hollow metal frames hardware schedule submitted but not approved. Delivery of frames is 40 working days after approval of hardware.
- Sheet metal ductwork no information as to whether shop drawings are required or not.
- Fire protection piping need in SRE apparatus room. Should study code review dated October 31, 1986 (working day 724). This code review was shown to Mr. Miller today and apparently he has never seen the document. It, however, was dated several months ago and is a very important document and should be given immediate attention by all concerned.

RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

Monitoring Report #220 City of Flint Improve. Program Page six damos a Madison for Alarm system - h. an **submit**t al. This have been approved by the 81 F Fire Marsh: Mechanical equip - all submi and approved. Delivery -1. king days -grooval. obraary 3, 1987. Not approved Ceramic tile - we bmitted abc Delivery 40 work-. Need co? 8 * . . 122 ys after app Not approved Terrazzo tile - 🕾 tted about . Need col Delivery about a 10 days as a oproval. Resilient tile tted abou* ary 3, 1987. Not approved Der Dion. Delivery about 10 . Need col 81 15 - 15 , A L . ϵ days aft ϵ WO - Toilet partitions abmitted bu approved. Need color sel-Delivery 2013 30 working days after ec. ap al. Plastic laminate ers and ca -ot submitted as yet. Ne ter approv da : s have been an stitted. Need color selec-Lockers - shop dra No approvation at a Selivery about 50 ages from a second a ti WOS and partic spowed. Deliver 30 workin approval. Switchgear - submi proved. Delivery approx-1m2 sings submi Are being Fuel tanks - shop will be resubmitted in d for resul prand on delivery times. ab 0 working io approvals as Signage - submitt out Decemb olor selec уе about Nove 2011 1986. Held for color on. Delive 2015 50 working days after Appliances - subma se: ape 1. Svery about 40 working Flagpole - submit ad approve(da ter approve Acoustic materials to submittal the jet.

RALPH J. STEPHENSON, P.E., P.C. CONSULTING ENGINEER

Monitoring Report #22 City of Flint Improve. Page seven

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The above information fully confirmed to be items carefully at eac obtained and being use

The procurement of the must be given a high p brought on line by the

Another difficulty that summer, is the possibi strikes. The contract. of the trades potentia. session that may be af

re items is or theal and absolutely sty of attempts or this project is to be of the yea present i later this spring and of trade of an at expiration related .11 provide vyyan with a full list ffected. viscussed briefly at our

diveries described and must be idered authors we should follow these ssion to in the shat full information

remaining in the job and could

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are nearly complete.

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Roofing Roofing

. . . shed as a measure of

storm sewer is com-

roofers

- carpenters laborers masons electricians
- plumbers

sheet metal work

All of these are involv adversely affect work

The next major operatio. cast and to get the roo slab on grade area sani plete, and it appears t° The building is essenti cept for hoist work whi ground services are not building and it is poss. before the hoist is com

The roofing system has probably will not begin could possibly start by

No diagramming was done that a plan of work be performance for the job.

General

Mr. Vyvyan will prepare a circulate to scanda for our next

Monitoring Report #22 City of Flint Improvem Page eight

Program

session. I suggest we binue to move the East Oak Park Industrial Park work alow with the Bis comport work. The Bishop Airport project is extended out long to the int should and needs additional careful many out attentions.

. Atph J. Stephenson, P. E.

we considerate

RJS igmy

and the

×.

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TO: Mr. Ray Vyvyan

RALPH J. STEPHENSON. P. E. P. C. CONSULTING ENGINEER

- xy 21, 1967

Subject: Monitoring Ret #230

> City of Flin rovement Pr

Flint, Michiga

Project: 83:14

Date of Monitoring: Masses, 1987 (working day 960)

Actions taken:

- Reviewed current has tus of East and Ark Industrial Park
- Updated BDA grant cowork for East Oak Park Industrial Park
- Inspected Bishop ort CFR/SRF withing progress
- Began preparing 1 to ry list for tablop Airport CFR/SRE Building network
- Began preparation a network diagonal for CFR/SRE Building
- Discussed current progress on the CFR/SRE Building with Mr. Root of Constantion Company.

East Oak Park Industri ark

Those attending:

Kathy Stoughton -Denise Hopkins -Ray Vyvyan - DPW Mike Mansfield -Marvin Roussel -Don Sowle - Consu Power Ralph J. Stephense - Consultant

ance of these for pack. #2 proposals

The EDA application has not yet been approved by the Washington office and there is no corent word on when this will occur. A change has been made in the program and the grant type is to be revised. The original arent was designed for permanent job creations give nive gright Ny. the under dho antibidity honder annies to have unemployed and under convert of the union labor. These conditions, which are convert than the original conditions of the grant, must be insured in the specifications prior to issuMonitoring Report #230 City of Flint Improven. Page two

Program

So far as the PASI pac the network model, is: 843) to issue #11, dat: this diagram we showed May 14, 1987 (working warded to the City of drawings and the drawi posals. The evaluatio a contractor could be council approval and a. Oak Park Industrial Pa. #2 on July 8, 1987 (wo. work to begin by Augus later than had been an

The problem with this a start which would pu tion. This could caus pletion of the project there does not appear approval presently pend following the project "

(Please note that in th ities showing council a execution of contracts **#1**. Please revise this

upon the project at sul

The EOIP PASI package proceed was provided to day 858) and construct (working day 864). Rev 174, issue #2, dated Ap tion on Leith Street, w age, was due to begin (over this diagram is pr

The project can proceed which is a part of the appears that the Baker time in August, 1987 at that the logic of the d a later start. Because decided at this session

document #2 is concerned, we updated 10, dated 12, 1987 (working day lay 14, 1987 thorking day 860). In grant approval as being available on 860). This grant, once it was fort, allows recisions to be made to the to be issued that advertising and prothe propos and recommendation of • by late June or early July, 1987 with rization of the award of the EOIP (East public area while improvement package g day 897). It would permit field 1987 (work: any 915), about 2 weeks pated in the lasue #10 network model.

lect is that it is being moved close to portion of States winter construccious problems and delays to full comer the terms of the grant. However, e much that cer be done to expedite the in Washington, and the DCD staff is carefully.

pdated version of drawing 164A the activroval, the preconstruction meeting, and the package are labeled for package package #2 on your networks.)

We shall continue to ever ate the EDA grant and its delay impact ent meeting

> as been issu and bid. A notice to o contractor of Day 12, 1987 (working is expected to start by May 20, 1987 ing the current network model on sheet 21, 1987 (wo stday day 843) construca is the firm project in the #1 packy 4, 1987 (mining day 852). The lag sted at 12 working days.

through to a maker Street program, PASI packs - 2. At present, it a will not be able to start until some-· earliest. Therefore, it is possible an will have to be revised to consider the uncertainty of the program, it was defer updating until our next meeting.

RALPH J. STEPHENSON, P.E., P.C. CONSULTING ENGINEER

Monitoring Report #230 City of Flint Improve Page three

. Program

Crash Fire Rescue and A Removal Ea Coment Building at Bishop Airport (CFR/SRE)

Those attending:

Ray Vyvyan - Bui - Inspection Robert Root - Foil ter Construction Marvin L. Roussel PW Ralph J. Stephens Consultant

Mr. Vyvyan and I made At present, structural and has been plumbed a the snow removal equipbuilding. Exterior pa at the snow removal ec being erected at the c

There is considerable appearance of the prec on the project. Howeve concentrated on planni quality of the product

Trench drains at both the crash fire rescue installation is also 1

Exterior work on the se very complex factors. initiated in the very cussion focused on what off-site work to a sat: cussed in more detail future. Mr. Vyvyan hac the project by the cit siderable attention ite future.

We prepared a network me late June, 1987. This May 14, 1987 (working Vyvyan for his use in include resolution of + tion of the trench drai roofing to be installed

site work that still me soe accomplision.

all field in section of the project. sel is erect. The most of the facility, rimmed. Me should deck is erected at area but no set the crash fire rescue t panels he been installed and welded ent buildin and exterior masonry is fire rescu 1. 1. Ori.

ing discuss and the quality and skin as well a broat other workmanship skin as well our main eff the this session were nd schedult a Gase rather than the work.

snow removal condigment building and ion are in the model underground utility ick or complete

has moved very slowly due to several is very critical that this work be future. A contion of our disald be done thing the on-site and story point. Wis matter will be dis-. Vyvyan and M. Roussel in the near on asked to workide his assistance on ministratio will be focusing conogress and conditing in the very near

i for project work from now through work model, while 175, issue #1, dated 60) was prime ind given to Mr. ing meeting aritical early items rior precast same problems, compleinstallatic of the slab on grade, and the start of roof the sting and curve to allow insulation and

It was also suggested the work begin the fuel tank and fuel tank piping instal ... on and to the it closely to the off-

Monitoring Report #230 City of Flint Improve: 554 Program Page four

Mr. Root of Forrester is struction has associated the city with a schedule of his antical ad building work and it will now be necessary to concentrate on a resolution of the schedule over the next several monther of as to perpire the current target completion date of November 9, 1987 (working day 984) to be achieved.

At our next session, it of yvyan and Protot will undoubtedly have a clearer picture of the meeds of the model we shall, at that time, try to complete metwork model for the entire building.

Of critical importance of the project the trade expiration datas of contract group on the Flint where these were provided by Forrester to the cities on April 29, and 7 (working day 849). The information is list below for responde.

Trade Expiration Date of Contract Bricklayers Apri: 34 . 1987 Plasterers Apri: 1987 April 36, 1987 Cement finishers July 11, 1987 Carpenters May 🚊 🔒 😒 🖗 🍸 Electricians Operating Engineer April 0, 1987 Iron Workers May 3. 1987 April . 1987 Laborers April : , 1987 Lathers May 31 102 Millwrights Painters April 2, (907 April 1987 Plumbers May 31, 287 Riggers June 5 1977 Roofers April : 1967 Sheet Metal

Teamsters

There is no current word are likely in the Flint of the potential for the contracts. Many of the shown in the list are cr

General

Mr. Vyvyan will prepare tribute it to these conc

whether or the construction strikes a. However, thus well to be aware tikes resultant at the expiration of les which have contract expirations all to the process.

April 1. 2087

igenda for our next session and dis-

RJS:gmy TO: Mr. Ray Vyvyan Ralph :. Stephenson, P.E.

Subject: Monitoring Re-#231 City of Flint rovement Press Flint, Michia Project: 83:14 Date of Monitoring: June 8, 1987 (we have day 884) Actions taken: - Reviewed current us of East and lark Industrial Park grant work - Updated EDA grant work for East ask Park Industrial Park Reviewed current and us of East and ark Industrial Park public area site ovements Strork. - Updated East Oak Industrial - Reviewed current us of CFR/S Contlaty at Bishop Airport of CFR/SRE stating at Bishop Airport Updated network me East Oak Park Industri ark Those attending. Denise Heath - DC ormerly Denice Copkins) Ray Vyvyan - DPW Mike Mansfield -Don Sowle - Consu Power Tom McCulla - Mic n Bell Ralph J. Stephens Consultant Approval of the EDA gr . for Oak Par act yet been released by the Washington offi The office wiven permission to ad-vertise for proposals the City of stand decided it would prefer to hold adverti until after set grant approval has been formally released.

e E r

In light of this, we used the EDA states network sheet 164A to issue #12, dated Jusse 18, 1987 (working day 884). In this diagram we now show approval and author station of award of con-

1.000

Monitoring Report #231 City of Flint Improvem / Program Page two

tract on EOIP #2 by the 921). This will gener to begin September 3, is a later date than he we next updated the new impact of the later the

and a

At present, work is pr 🗠 Street demolition having work there has been su focused on getting und. curbs, gutters, sidewa...

Consumers Power mains lag over the issue #2 day 843) is about 18 w

The updated network mecday 884) shows clean v (working day 917).

At Taylor Street, dema The north side of Tavl access to the incubator indicates that Taylor and late starts and fi

A revised sequence was followed by work at Ta to be completed. Seque work and installation

Due to the late start completed by about mid but the demands of wea early or mid November, in completing work with

erning of Au areat, 1987 (working day permit fie of on ECIP PASI work +3) for package 2. (working d This een previous considered desirable so t model for a work to determine the xpected relation of funding.

ding on the the installation with Leith tarting above say 20, 1987. Demolition intially commerce and present efforts are ound utility of at the street so and drive serves can be installed.

in and lead and being installed. The ork model, working 21, 1987 (working ng days.

issue #3, do not some t2, 1987 (working d move out a lot th at sugust 5, 1987

ion has begin and a portion is complete. ust be main' when so as to provide wilding. Present progress evaluation et work is the targets between early **85**.

a pared in what that will be done first, , then at Press, and then at Dartmouth, Rankin, Dayton, and Para and concurre Will warren Street will follow Dartmouth, and samaw will be Wit last section of facility ing of the work is done through demolition-aderground and lity work.

reld work for phase 2, it will probably be necessary to construct the Saginaw and Newell Street improvements in 1988. These the sections of the project are shown being e, 1988. The later than desired on outside intertion make it necessary to generally close and public are the improvement work in 7. However . difficulty is anticipated grant require to dates.

The network models update for the Galary project were issued to those concerned.

Crash Fire Rescue and what Removal Equipment Building at Eishop Airport

Those attending:

Monitoring Report #25 City of Plint Improve Page three	Program
Ray Vyvyan - Bui	g Inspectio
Robert Root - Po	or Construction
Robert Hidley -	p Airport
David Miller - Ba	on & Madiso
Marvin Roussel -	(in meetin . thme)
Ralph J. Stephen	Consul tan
Mr. Hidley asked for are listed below as the	to make set a preservations. These vere discusses
- Removal of the e after occupancy of the parking fa	ng facilit the accomplished e new. How the potential operator
stallation of a	ty at the second which is start in- ot in the second of the building this
summer. The elec	al vault for any sighting is located at
the building that it is possible th	a 1 ultimatel and semantished and therefore, a structure of the semantic terms of the second
locate it at the	of the fusion terminal building. The
airport staff is	ently having a casibility study made as
to where the vau	ould be loc.
The potential ope- to his questions portance of the 1 it may influence services at the F	ar of the past of Sacility needs answers une 24, 196 Contains day 886). The im- nse from the second operators is that decision of the latest to expand their airport.
- Mr. Hidley wants building to servi- the boundaries of	
grade. Removal of although there see	the existing proceed fuel oil above the tank is by the new facility contractor, we to be some confusion about who is actually this matter the cleared immediately.
- The existing fire facility.	tion will near stated for a rental car
- Mr. Hidley asked from.	power for the and pumps will come
- The color board had been forwarded to color board.	en approved the color board sheets have contractor. Facison & Madison have the

RALPH J. STEPHENSON, P.E., P.C. CONSULTING ENGINEER

antalled. Mr. Miller

Monitoring Report #231 City of Flint Improve Page four

Program

- There has been considerable dispution about firemen alerts in the event of There we assetting on June 16, 1987 е. (working day 882 agarding this a cust. Apparently, it was decided that they would be a reasonable installed on the SRE building that work the tied to the alarm so when the alarm goes off the red t goes on. We get horns will also be added to the insight of the build and resently, the decibel level is being sea or the inside system.
- It is desirable t d emergency douting at the facility. er code, pro any about 60 minutes of This must be done e, living a comparatus areas will be lighting in the e installed.
 - e formally continued the services of ne 12, 1987 Contains day 880). Hadison & Madisor Rowe per letter c
 - led the sprease assister requirements
- The airport needs cesponse from a lison a lisdison re fire a sleeping the the HVAC system. code compliance a
- oad paving Fr. Hidley asked weing along. This work ---sity. Apparently, paving will be started 887 (working the field). It is important stified at the the days in advance so is being done by (on Monday, June 2: that the airport down the proceedance and the main runthey are able to st be used a sublines in bad weather. way, east and wes Mr. Vyvyan said the paving pla tes sent to ar. John Gross at the FAA for pav review.
- Overall, Mr. Hidle coels that jo communications have improved last few we considerably over

as of the product is concerned, work on So far as the current s the buildings is proceed if and precase stand offerences have been resolved adequately to the ow following work to be released. Structural crack grouting is all to be discould and a decision made.

The airport has a for the SRE builds

At the CFR, about 50% c mentioned that might be usible diffi they with the joist bridging.

At the SRE roof, some blocking is install a coofing will prob-ably begin at SRE about the 24, 1987. In the sill probably start uly 1, 1985 on the CFR building about

e metal dec.

On the site, fuel tanks the tank for will be delivered about July 2, 1987 and will take about 10 working days to install. Guard rails at the tanks will a installed when the work.

Monitoring Report #231 City of Flint Improvem-Page five

- .eg

Access road paving fro June 22, 1987 (working east-west runway 927 f was noted that install started about Monday,

Main apron paving at to are poured. This will

So far as trade contranow. There is no word tinue working and in a impact on corrective we

As part of our planning model for the CFR/SRE issue #2, dated June 1 we completed the close possibly projected at facility could be complihave to be checked very

Of importance here is has been prepared for a certainly be used by the ference but it is not is struction of the project strong efforts to get and it is available for

Overall, it appears the better than it has in the a reasonably good chance 1987.

General

I shall be in touch with ϵ . Vyvyan shall be confirm the next session. Meanwhile, he is distribut and a for the next session.

Land J. Stephenson, P.E.

RJS:gmy To: Mr. Ray Vyvyan Program

Funways is the learn at 7 Ak, Monday, 886). It where necessary to close days to particle runway access. It i of road access to the project will be 29. 1987.

uildings will start after building floors bably be in a start late July, 1987.

ere concerne	116 t trades are working
whether str	ironworkers will con-
	se gait that they would
at the exterm	remels of the building.

day, we confident work on the network aing, sheet work of the was updated to 87 (workin defined at the second states of the second stat

te that the second model on sheet 175 f and analysis by the owner. It can intractor as the field forces for reded to be a second ion the actual conthe control to the source made ontractor is the second this plan of work sir use as the second second.

past, and the part which is beginning to move past, and the more now appears to be complete the respect by mid October,

Jaly 19, 1987

Subject: Monitoring Remot #232

City of Flint provement Program

Flint, Michie

Project: 83:14

Date of Monitoring: Just 7, 1987 (working day 904)

Actions taken:

- Reviewed current tus of East the Park Industrial Park grant
- Updated EDA grant twork for East Cak Park Industrial Park
- Reviewed current in tus of East Cak Park Industrial Park public area site in provements
- Updated East Oak in it Industrial Fork PASI network
- Inspected Bishop to port CFR/SRP facility
- Reviewed current of sus of CFR/SEE Eishop Airport facility
- Updated network model for CFR/SK: facility at Bishop Airport

East Oak Park Industri ark

Those attending:

Denise Heath - DCD Ray Vyvyan - DFW Mike Mansfield - DFW Don Sowle - Consumers ower (in meeting part time) Marv Roussel - DFW Ralph J. Stephenson ansultant

EDA grant approval has open given by bashington and the agreement is in the hands of the obly of Flint to be presented at a special meeting of the council to July 17, 1960 (working day 904). There have been some addition to conditions to be considered to obtain the grant and in order that the city to advertise for proposals, and for these proposals to be prepared, Flint must obtain EPA approval on the sower tallation, and have EDA approval to go ahead without having magnetable title to all properties in the

RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

Monitoring Report #232 City of Flint Improven: Page two

Program

area. It is expected tively soon. We have 10 working days, or by approvals will have be submittal of proposals

We updated the network ing day 884), sheet 16° day 904) sheet 164A. council approving and tract on September 9, field work to begin by ibly a few days earlie model, which shows a reliber 3, 1987 (working d revision prompted an us struction of the public

At present, in the fiel in accordance with the dated June 18, 1987 (wet walks, and drive aprons

At Taylor Street, work walks, and drive apron course is being placed. begin on July 7, 1987

starts between April 1, 1988 and May 16, 1988.

in the network model. is that Dartmouth, Bake

these two ateas can be cleared relathe assumption that within the next by 31, 1987 working day 914), both btained and advertising and along with proceed.

'el, issue 12, dated June 18, 1987 (workto issue 13, dated July 17, 1987 (working chis revised retwork, we now show city orizing away of the HOIP PASI #2 con-(working day NA1). This should allow tober 5, 1980 Corking day 959) or poss-The slippage over the previous network ase of field work operations on Septem-38), is about 21 working days. This ting of the network model for field conrea site improvement (PASI) work.

Leith Street Work is moving well and is work model, they on sheet 174, issue 3, ing day 884). Most curbs, gutters, sidee complete and the asphalt base course is in. The leveling con se will be installed next week.

> Lagging sliphtly. Curbs, gutters, sidee nearly constants and the asphalt base adjustment of the structures was due to wking day 896 ... It has not yet started.

Work in Baker Street, as mouth Street, Bankin, Dayton, Parkland, Warren, Saginaw, and New 11 will now have to wait on start of construction under PASI fie operations contract 2. As noted above, this work date is presency projected at October 5, 1987 (working day 959). We updated the network model, issue 3, dated June 18, 1987 (working day 884), a set 174 to issue 4, dated July 17, 1987 (working day 904) and as a showed the new sequence of work as desired under the revised wan. In this scheme of work, field operations will begin on Dow south and proceed from Dartmouth to Baker with work being started Parkland concurrently with Baker. From Baker Street the work will move to Rankin and then to Dayton. Work in Newell, Warren, and Saginaw with all be done in 1988 with

Thus, overall, PASI installation has been moved to a later date major difficulty in this later start ankin, Dayton, and Parkland are all finishing up in a time a the between mid Hovember, 1987 and mid December, 1987. It might not be possible to maintain a full plan of work throughout thes. Inter months out it is the intent of the

Nonitoring Report #232 City of Flint Improvem Page three

city to continue as mu

to as late a point in

We shall continue to not

problem with late year

tions on the plan of o

program.

Program

of the public area site improvement work year as possible.

Copies of the network sels, as prepared at this planning and monitoring session, he seen distributed to those involved in the

cor this propose closely since now the struction may impose additional restrictions.

Crash Fire Rescue and Removal Eq: ment Building - Bishop International Airport

Monitored from sheet 1 day 884).

Monitored from sheet 1 issue 2, da and anne 18, 1987 (working

Those attending:

Ray Vyvyan - DFW

Robert Root - Forrest Construction

Ralph J. Stephenson sultant

The project has moved a sty over the past month and the lag over issue 2 network model does is currently about 9 working days. However, the projected 2 is about 24 to 26 working days. The reason for the sizable conjected lag is that most interior work at the CFR portion of the project, parameterally in the living quarters and office and is now on hold. This hold has been imposed for a variety of modernal reasons and is just now being resolved. It is expected by the City concil will release additional funding to make the design revisions on July 22, 1987 (working day 907). Final proclag of the design revisions will be submitted and change orders issued for the revisions. The contractor feels that there will be very little time, if any, spent in pricing design revisions since most of them have been reviewed in detail previously. There we, in our new cold we have given this a zero duration.

What this all means is the work will not start again at the CFR office area until about repust 7, 1987 (working day 919). At that time the underground mean fical and electrical work will probably have to be reinstalled to one degree and from there work can proceed on the CFR office from slab on grade and on into interior work. Meanwhile, however, plans are to complete the garage floor slab on grade at the CFF sea so that werk will be ongoing in any event.

RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

Monitoring Report #230 City of Flint Improvement Program Page four

in to weather and any

areas. If facilities ably good weather.

CFR facilities sometime lot work is to be complement this year.

roads are in progress, adjoining the building.

One deterrent to this we want able for use.

possible.

work was provided to the t the meeting a

At the snow removal economent building who floor slab on grade is about 80% complete. See semaining floor that will be installed by minish minish will be completed.

There has been some dia masion about the CFR facility might be occupied at an earlier one than now projected. The reason is that current indications show the entire facility will not be available until mid or late Noveman, 1987. Ocramition of the facility frees up work to be done at the main airport to mainal complex parking the main air the complex could be vacated sooner, work there could proceed this year during reason-

One possible solution we did to provide temporary living quarters for the staff at the crass fire rescue station and to use the snow removal equipment garage or the crash fire rescue garage area, for vehicle servicing an storage. This matter should be given careful thought since i will be essential to vacate the present late summer an early fall if parking

Meanwhile, work on the surrounding site, outside the building itself, is moving ahead, a cough still (tow)y. Sprons and access ough no pavid that been done directly

is installation of fuel tanks, which is now in progress. The fact tanks are on the job, the bases have been poured, and the fuel canks are being installed currently. It is very critical that the adjoining site work be completed just as quickly as possible a mat if a decision is made to make interim use of the facility way, by providing temporary living quarters nearby, access roade and drives to the building must be avail-

I highly recommend that see cy effort be made to free up the hold presently on the crash f rescue area. This is a major bottleneck to completing the way and must be assolved as quickly as

As part of our work toda, a updated the astwork model on sheet 175 to issue 3, dated Juse 7, 1987 (wore day 904). This net-

It should be noted that the diagram has never prepared for analya construction network for the contractors the shall continue to

Monitoring Report #232 City of Flint Improvement Program Page five

monitor from it so long as there is no objection to such monitoring from the parties involved. I recommend that those involved in the airport administration be requested to attend these planning and monitoring meetings. It is difficult to conduct a meaningful evaluation of the project when those who must make the basic decisions are not available. The project is now at a very critical point in its progress toward completion and attention must be given by all decision makers who are concerned with the job.

General

Mr. Vyvyan will prepare an agenda for next meeting and distribute it to those concerned.

Ralph J. Stephenson, I.E.

BJSigmy

To: Mr. Ray Vyvyan

RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

August 12, 1987

Subject: Monitoring Report #233

City of Flint Improvement Program

Flint, Michigan

Project: 83:14

Date of Monitoring: August 5, 1987 (working day 917)

Actions taken:

- Reviewed current status of Bishop Airport CFR/SRE facility
- Updated network model for Bishop Airport CFR/SRE facility to issue 4, dated August 5, 1987 (working day 917)
- Began preliminary review of Flint MTA facilities, design and construction with owner and with architect/engineer

<u>Crash Fire Rescue and Snow Removal Building - Bishop International</u> <u>Airport</u>

Monitored from: issue 3, dated July 17, 1987 (working day 904).

Those attending:

Ray Vyvyan - DPW Robert Root - Forrester Construction Robert Hidley - Bishop Airport Phil Masson - Flint Fire Department Sam Dixon - Flint Fire Department (in meeting part time) Ralph J. Stephenson - Consultant

A limited amount of work has been done on the project since our previous monitoring on July 17, 1987 (working day 904). The problem that still remains is release of work at the crash fire rescue living quarters and the office area. At present, it will be essential to prepare and issue the CFR design revisions, and then to request and receive FAA approval on funding of the revised layouts. Concurrently, final price and time estimates for the project will be prepared and issued. This should lead to a change order for design revisions.

(Note: In the network model currently being used by the City of Flint for monitoring, sheet 175, issue 4, dated August 5, 1987 (working day 917), the preparation and issuance of CFR design

98.78 Sec. 1

Monitoring Report #233 City of Flint Improvement Program Page two

revisions was shown at 7 working days. This time should be 5 working days and an appropriate adjustment in the total duration of the project should be noted. A copy of the corrected network is attached to this report for distribution.)

With the updated network model, the current completion of the project for FAA inspection and acceptance of the total facility is in late December, 1987. There appears to be very little compression possible on the current plan of work and in all likelihood, the network model now being utilized by the city for study and analyses of the project, will be that to be actually followed in the field. This is a plan of work that finishes much later than had been anticipated, and I recommend that the project team continue to make reviews of the job that may allow some compression of the plan of work.

There were several items added to the network model as it was updated at our session. These dealt mainly with completion of the interior work at the snow removal equipment area of the project.

In addition, Mr. Vyvyan provided additional information on construction of outside area site work related to the project. I shall incorporate this information into a final network model and transmit it to Mr. Vyvyan shortly. It should be noted that the outside work will be put on a separate network model.

MTA - Intermodal Bus Station and Train Station

Those attending:

Ray Shull - Ray Shull & Associates Charles Williams - Ray Shull & Associates Robert Foye - MTA Terry Gurrens - MTA Edward Bohlen - MTA Ray Vyvyan - DPW Ralph J. Stephenson - Consultant

This meeting was to make a preliminary review of the design and construction process for the MTA Intermodel Bus Station and Train Station to be constructed on two sites, one in downtown Flint, the other at the MTA facility on Dort Highway and the east/west expressway.

The projects have critical time frames and therefore, it was felt by the architect/engineer, Ray Shull & Associates, that it would be well to prepare network models for the design period and possibly, Monitoring Report #233 City of Flint Improvement Program Page three

at a later date, for actual construction itself. Total completion of the project is presently planned for late August, 1988, with contract documents to be prepared and completed by November 30, 1987 (working day 998).

The project is to be delivered by use of a fixed money construction bidding process from completed contract documents. Either one or two general contractors will be used and the contractors proposing on the project can propose on one, or the other, or both of the jobs.

Although the project is relatively small, it is a very critical project for MTA and is being given careful attention.

At our session, we prepared a design laundry list for both projects and this design laundry list will be used at subsequent meetings to complete preparation of a network model of the design process. There was no major network planning done at the short session today. However, planning will resume at our next Flint meeting, and subsequent sessions for planning the project will be set then if necessary.

General

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Mr. Vyvyan is retiring in mid August, 1987 and this session was the final meeting in which Mr. Vyvyan is acting as the major Flint representative. I wish to compliment the City of Flint in their selection of Mr. Vyvyan to act as their spokesman in these meetings over the past several years. He has performed extremely well, has contributed a great deal to the success of all of the projects, and has at all times performed professionally and objectively in carrying out his responsibilities.

It has been a pleasure working with him, as well as the other members of the DPW, DCD, and administrative staff of the city. However, I should like to, at this time, single out Mr. Vyvyan for special recognition, and thank him for his help.

I would also like to wish him a very pleasant and highly satisfying retirement.

Ralph J. Stephenson, P.E.

RJS:gmy TO: Mr. Ray Vyvyan

RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

120

August 31, 1987

Subject: Monitoring Report #234

City of Flint Improvement Program

Plint, Michigan

Project: 83:14

Date of Monitoring: August 27, 1987 (working day 933)

Actions taken:

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- Reviewed current status of East Oak Park Industrial Park grant work
- Reviewed current status of East Oak Park Industrial Park field work
- Updated East Oak Park Industrial Park grant network
- Reviewed Bishop Airport CFR/SRE facility status
- Inspected CFR/SRE project
- Prepared design network model for MTA facilities (This project is now being worked upon on a professional arrangement with Mr. Ray Schull. Work on this project will be charged directly to Mr. Schull.)

East Oak Park Industrial Park

Those attending:

Denise Heath - DPW Don Berry - DPW Mike Mansfield - DPW (in meeting part time) Don Sowle - Consumers Power (in meeting part time) Ralph J. Stephenson - Consultant

Approval on sever work has still not been obtained by the EDA and is holding up advertising and solicitation of proposals on East Oak Park Industrial Park, phase 2 work. Also, the EDA requirement for clear title has not yet been resolved and also restrains advertising and submission of proposals. The grant agreement has been executed by the City of Flint and returned to the EDA Regional and Washington office.

We discussed the matter of clear title in great detail, going through the properties yet to be totally acquired. Mr. Charles White, attorney for Flint, wrote a letter on August 26, 1987 Monitoring Report #234 City of Flint Improvement Program Page two

(working day 932) outlining the status of the 6 parcels in question. A summary of this letter was made and provided to those at the meeting.

It presently appears that the grantee borrower, the City of Flint, can provide satisfactory evidence that it has obtained all land, rights of way, and easements necessary to the completion of the project. This matter is being pursued vigorously by the DCD and must be followed very carefully.

The major problem is that there is a limitation on the grant that construction must start within 90 calendar days from signing the grant acceptance. Thus, Oak Park Industrial Park field work must start by mid October, 1987, or there is a possibility of losing the grant funding.

Following through on the network model being used to evaluate current status, it presently appears that if we can obtained the necessary approvals on the sewer work and waiver of clear title within the next 5 days, that we still might have difficulty in meeting the start of field work by mid October, 1987.

At our session we updated sheet 164A, issue 13 to issue 14, dated August 27, 1987 (working day 933). This network is for obtaining the EDA funding, and applying the current conditions it appears that we may have to wait until October 12, 1987 (working day 964) for a council meeting to approve an authorized award of the contract. This would mean that field work would not be able to start until about November 5, 1987. The key to this program is to get it out into the market place for proposals and we must do this immediately if we are to be able to start field work at the required 90 calendar day point from execution of the agreement.

The network model showing this current difficulty and the sequence of work to be done is attached to the report. I suggest it be studied very carefully by all concerned, since it is of critical importance that this grant be utilized just as quickly as possible.

Probably not much field work can be done on the project this year since the start in the field is so late. However, it is essential that the work be put into the field just as quickly as possible.

So far as the construction work status of phase 1, all public area site improvements have been made for phase 1. No further field work can be accomplished on this project until phase 2 is released.

Accompanying this report is a set of notes taken at the meeting on August 27, 1987 (working day 933).

Monitoring Report #234 City of Flint Improvement Program Page three

Crash Fire Rescue and Snow Removal Building - Bishop International Airport

Monitored from: issue #4, dated August 5, 1987 (working day 917).

Those attending:

Robert Hidley - Bishop Airport Don Berry - DPW Fred D. Ebel - Bishop Airport Mike Joliat - City attorney (in meeting part time) Ralph J. Stephenson, P.E. - Consultant

The project is still at somewhat of a standstill at the crash fire rescue area due to a delay in issuing the CFR design revisions. These revisions were authorised by the Flint Council some time ago and have been promised by the architect/engineer for a period of time. However, it now appears that they will not be issued for another 5 working days. This puts the building project about 16 working days behind the issue 4 network model, dated August 5, 1987 (working day 917). This is the model on sheet 175 that is being used by the city for study and analyses. (It should be again pointed out that this network is not intended to be a network model for the actual construction of the project. It is to be used for monitoring and evaluation only.) According to this network, the completion date now has been moved to a later point, possibly as late as January 14, 1988. This is a considerable slippage and is far more than desirable.

During the past few months, the project has continuously lost ground and is now actually in some danger of not being fully closed in by cold weather. At present, there is no sash installed in the building, nor are there any overhead doors, or man doors installed. Thus, the entire facility is still open to weather at all openings in the vertical surfaces.

The contracter is beginning to send letters regarding additional costs to Mr. Hidley and at this session we reviewed methods by which the costs of the project revisions could be minimized. This evaluation was not done in detail since the meeting was primarily for an evaluation of the current status of the job. However, we did have considerable discussions on how the project could be once again moved forward since progress on it over the past few weeks has been negligible.

Mr. Hidley and Mr. Joliat will review the situation on the project with Mr. Rob Collier in the very near future. With the retirement of Mr. Ray Vyvyan, who was acting as the temporary project manager on the job, no one now is on the job in an active role, representing the technical interest of the city and the airport. I strongly recommend someone be appointed to this position Monitoring Report #234 City of Flint Improvement Program Page four

so that the problems that currently are being encountered on the job can be resolved in a timely and effective manner.

I provided Mr. Joliat with a full set of the meeting notes that have been taken on the job since September, 1986. In addition, Mr. Berry will provide Mr. Joliat with a set of monitoring reports from September, 1986 for his review and orientation.

On our site visit we briefly inspected the building and the surrounding site work. There appears to have been very little progress made on site work over the past few weeks. However, there was no authoritative source available to properly monitor ramp site work, runway access site work, and access road site work. It would be well at our next session to make a full review of this with the city's field forces. I shall bring this up at our next session with Mr. Berry.

In brief, the project needs strong immediate attention if it is still the intent to complete and occupy this facility in 1987.

General

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Mr. Berry is preparing and distributing an agenda for our next meeting. Meanwhile, as has been the custom in the past, he will duplicate and circulate this report and attachments to those on the circulation list.

Ralph J. Stephenson, P.E.

RJSIgmy

To: Mr. Don Berry

October 7, 1987

Subject: Monitoring Report #235

City of Flint Improvement Program

Flint, Michigan

Project: 83:14

5. m

Date of Monitoring: October 1, 1987 (working day 192 - from 1987 base calendar, or working day 957 - 1984 base calendar)

Actions taken:

- Reviewed current status of East Oak Park Industrial Park grant work
- Reviewed current status of East Oak Park Industrial Park field work
- Reviewed Bishop Airport CFR/SRE facility status
- Inspected CFR/SRE project

East Oak Park Industrial Park

These attending: Denise Heath - DCD Don Berry - DPW Tom McCullum - Michigan Bell Ralph J. Stephenson, P.E. - Consultant

EPA approvals on sever work have been obtained. The EPA has apparently granted a waiver of clear title and advertising for Oak Park #2 proposals has been done. Proposals are due at the city offices by 3 P.M., October 1, 1987 (working day 192). Council authorization of award of contract #2 is expected by October 12, 1987 (working day 199), and work is to nove into the field just as quickly after that as possible. It should be mentioned that the contract must be executed before field work is able to be started. <u>Construction must be started by Octo-</u> ber 19, 1987 (working day 969) so the grant conditions can be fulfilled.

I strongly recommend the contract be walked through the various city approving departments. The city administration should be made fully aware of this matter so that there is no delay whatsoever in processing the contract.

Field work on the East Oak Park Industrial Park improvements has been completed for phase 1 work at Leith Street and at Taylor Street.

Work on the phase 2 projects will begin in the near future. These phase 2 projects include the following:

- Dartmouth Street
- Parkland

RALPH J. STEPHENSON, P. E., P. C. CONSULTING ENGINEER

Monitoring Report #235 City of Flint Improvement Program Page two

- Baker Street
- Rankin
- Dayton
- Newell
- Warren
- Saginaw

Some of this work can be completed this fall but much of it will probably be deferred until next spring, probably with remobilization occurring in early April, 1988. There should be little, if any, difficulty in completing the project within the current grant limitations. However, to re-emphasize, it is imperative that work in the field begin prior to October 19, 1987 (working day 969).

I recommend to those at the meeting that at our next session, we begin to focus on planning for occupant improvement of the industrial area. This is a simable amount of land that will come on the market within the next 9 months to 1 year. Its tenant development and improvement, along with the marketing process itself, should be given special attention in the immediate future. I shall discuss this in more detail at our next planning and monitoring meeting.

Crash Fire Resoue and Snow Removal Building - Bishop Airport (CFR/SRE)

Monitored from building network, issue 4, dated August 5, 1987 (working day 917), sheet 175 and site work, issue 1, dated August 11, 1987 (working day 921), sheet 126.

Those attending:

Don Berry - DPW

Phil Masson - Flint Fire Department

Robert Hidley - Bishop Airport

Ton Chastine - Airport consultant

Tom McCullum - Michigan Bell

Dave Miller - Madison & Madison

Mary Roussel - DPW

Ralph J. Stephenson, P.E. - Consultant

The building is still not closed to weather and work on floor slab on grade at the CFR office and alsoping quarter area has not yet begun. At present, SRE precast cracks are being patched and should be completed in about 8 working days.

Efforts are being made to pave the 2 to 4' strip around the building. However, there apparently is some debate about the interference between grouting, and compacting the sub-base, and installing the concrete work. It is a small matter

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and should be simple to complete. However, it must be resolved as soon as possible so that the total cutside work of the project can be cleaned up prior to beginning of cold weather. This matter will be followed by the project team.

The FAA approval of revisions to the building use has not been cleared as yet and there still is considerable confusion about who is to do this. The questions that must be answered include:

What approval is needed?

Who is to provide this approval?

Who is to solicit the approval and obtain it from the appropriate parties?

What is required to gain acceptance of the new building plan?

Currently, Mr. Miller of Madison & Madison is hold on the revisions change order until all prices are firmed up. It also should be determined whether or not pricing of revisions must be released before formal approval of the FAA can be obtained, if needed. This matter should be investigated and cleared just as quickly as possible.

At the building proper, there is some interference of a man door, by bracing on the SRE building. This matter is currently in Mr. Rob Collier's hands for resolution. In addition, the matter of door control installation is to be resolved and approved.

All building sprons are installed and some owner equipment is beginning to arrive in Flint. It will soon be necessary to install this equipment and a plan should be prepared in the near future for receipt of such material and equipment, its storage, placement, hooking up, and acceptance. Mr. Masson will follow through on this matter.

A point brought up by Mr. Roussel concerns installation of sidewalks outside the 5' construction boundary for the building. This matter apparently is not yet resolved and someone must install these walks. The question is who is to do it?

We discussed, at some length, the matter of liquidated damages on the project. In order to properly and accurately identify the liquidated damages to be assessed, a specific liquidated damages date must be established. Mr. Miller, of Madison & Madison, was asked to establish this date based upon the starting point of the job, the stop work orders issued, the number of days worked by the contractor, and the time extensions that might be appropriate for the city to grant to the contractor. This matter should be checked carefully on an ongoing bases to insure that liquidated damage assessments are being evaluated properly.

Monitoring Report #235 City of Flint Improvement Program Page four

The current lag on the project over the issue 4 network model, dated August 5, 1987 (working day 917) is about 24 working days primarily in installation of underground utilities and construction of the floor slab on grade at the CFR office and sleeping area. This now puts the projected completion date of the project in late January, 1988.

So far as site work progress is concerned, the base course at ramp areas has been nearly completed and work is new moving into the finishing and landscaping work for surrounding site areas. There has been some questions as to whether the wearing course should be installed on the paved areas, particularly at the ramp this year. The DPW has recommended that this wearing course be deferred until next spring to keep from damaging the wearing course. This matter should be checked carefully to insure that correct approvals have been given. Marv Roussel will obtain unit costs to be expected if it is decided to follow this sequence of action.

On the building itself, overhead doors are being hung at the GFR vehicular storage area and work on the project at interiors has progressed slightly. However, the general progress is very slow and continuing attention will have to be paid the progress if it is to finish within a reasonable time from today's monitoring date.

There is no strong managing or directing force representing the city on the project, at present, and this matter should be resolved just as quickly as possible since the program is complex enough in its entirety to warrant constant, capable management by a member of the owner's team.

General

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At our next session we will plan to review the East Oak Park Industrial Park network and hopefully prepare some long range planning for marketing and occupancy of the space. We also should plan to again review the airport work and concentrate on completing the network model for remaining work.

I shall be in touch with Mr. Berry shortly to confirm the date of the next meeting. Meanwhile, attached to this report is a copy of meeting minutes taken during the sessions.

Ralph J. Stephenson, P.E.

RJS:gmy To: Mr. Don Berry

November 1, 1987

Subject: Monitoring Report #236

City of Flint Improvement Program

Flint, Michigan

Project: 83:14

Date of Monitoring: October 22, 1987 (working day 207)-from 1987 base calendar or working day 972-from 1984 base calendar)

Actions taken:

- Reviewed current status of East Oak Park Industrial Park grant work
- Reviewed current status of East Oak Park Industrial Park field work

- Reviewed Bishop Airport CFR/SRE facility status

East Oak Park Industrial Park

Those attending:

Denise Heath - DCD Don Berry - DPW Ralph J. Stephenson, P.E. - Consultant

The grant was approved and accepted by the City Council on October 12, 1987 (working day 964). A preconstruction meeting was held and the contract was partially executed by the city. However, the signing process was interrupted by an injunction filed by the union local. This injunction was based upon a lack of a 14 day union notification prior to contract award. This notification has now been given. However, there is no word on when the contract execution process will resume. It probably will have to be started through the signature cycle upon release since the contract award date will have to be revised.

Efforts will be made to take the contract back to council for approval on November 9, 1987 (working day 984). A one month grant extension on the required start date of October 19, 1987 (working day 969) was formally submitted to the EDA on Friday, October 16, 1987 (working day 968).

There is a possibility that utility construction, which might be able to proceed independently of the injunction, could begin, thus, signaling start of construction. However, it may not be advisable to do this, particularly if an extension of time is granted by the EDA. In any event, the project team will investigate the possibility of starting work early on other activities related to the project.

So far as field work is concerned, there is no change from the previous meeting. The field work on the East Oak Park Industrial Park improvements for phase 1 at Leith and Taylor have been completed. Work on phase 2 projects will not be

Monitoring Report #236 City of Flint Improvement Program Page two

able to begin until the injunction is removed. Further details on the process of contractor selection and partial execution of the contract for phase 2 work is shown in the meeting notes attached to this monitoring report.

Efforts were initiated to update the current network model for PASI field work in phase 2. This updating process was started on issue 5, dated October 22, 1987 (working day 972), sheet 174. However, because of lack of information and the need to make decisions relative to the sequencing of work, we were not able to complete the updating at this session. The work model, however, should be revised and reissued at our next planning and monitoring session. It is very important to give careful attention to the timing of the project since there are restrictions on the use of the grant funds. I suggest that all applicable restraints be examined in detail and identified clearly and thoroughly.

Crash Fire Rescue and Snow Removal Equipment Building - Bishop Airport (OFR/SHE)

Menitored from building network, issue 4, dated August 5, 1987 (working day 917), sheet 175.

Those attending:

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Rob Collier - Mayor's office Don Berry - DPW Robert Hidley - Bishop Airport Robert Root - Forrester Construction Ralph J. Stephenson, P.E. - Consultant

Work is continuing on close in of the full structure. Precast crack patching is about 75% complete. Exterior site work adjoining the building is partially complete. However, the wearing course on site paving asphalt will be deferred until next spring.

There is as yet no word on what FAA approval might be required for revisions to the building use. Mr. Hidley will check on the usage with the FAA.

Of major importance is that there is no current word on processing of the change order to the CFR portion of the building. Apparently, the original estimate of cost, approved by council was about \$17,000. A second estimate was made of the cost at about \$54,000 when the extent of the changes were more clearly identified. A revised cost estimate based upon the issued drawings, with changes recommended by Forrester, is now about \$41,000. These costs do not include additional expenses for extended general requirements and for other items that might be cost items not part of the actual work under this changed scope.

The changes that have now been made to the drawings must be processed and released to the field. As of October 22, 1987 (working day 972), the change order has not been submitted. Mr. Root estimated it would take Forrester about 4 months to complete the CFR building from the point where the change order was approved and released to the field for work.

Monitoring Report #236 City of Flint Improvement Program Page three

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So far as the building is concerned, window openings are the only major openings unclosed at present. Windows will be on the job November 9, 1987 (working day 984) and will take about 9 working days to install. Heating units are hung and are presently being piped. However, there are no gas meters installed as yet. Forrester says that Consumers Power is to install these.

The interference of bracing with man doors is yet to be worked out between the architect and contractor. Apparently, a letter is needed to release the corrective measures. Door controls are not yet released. The cost and release conditions will be resolved by the city in the near future.

There has been a request made of Hadison & Madison to provide the current date, including all official time extensions and hold impacts, for start of liquidated damages. Hadison & Madison were not represented at this meeting and there was no current information on this liquidated damages date.

I, again, recommend that this matter be investigated and kept current with the various time extensions officially granted to the project. This is an important item and should be given careful attention.

Site work outside of the building boundaries, has generally been slowed or stopped until next spring. Mr. Hidley said that the road to the east floods and has mud washing on it after heavy rains. The DPW will check into this matter and determine how the difficulty might be resolved.

Overall, the current projection of completion on the project, according to Forrester, is approximately 4 months after the interior change order revisions are released. Of prime importance is the method by which temporary heat is to be made available at the interior of the building. Probably the SRE pertion of the project need only be maintained in a nominal above freezing range. However, at the GFR area it may be necessary to maintain a higher temperature due to the need to protect finishes.

<u>General</u>

At our next session we should update the East Oak Park Industrial Park network for construction of PASI work, taking into account the delays to it caused by the injunction. In addition, it is now possible to do some planning relative to the marketing of this program and we shall discuss this with the DCD. We shall also plan to update the guidance network being used currently for city evaluation of the CFR/SRE project.

I shall be in touch with Mr. Berry to confirm the date of our next meeting. As noted above, attached to this report is a copy of the meeting minutes taken during the planning session.

Ralph J. Stephenson, P.E.

CRITICAL PATH PLANNING

. LAND PLANNING

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* MANAGEMENT CONSULTING

* PLANT LOCATION

RALPH J. STEPHENSON, P.E., P.C. Consulting Engineer

15064 WARWICK ROAD DETROIT, MICHIGAN 48223 PHONE 273-5026

November 30, 1987

Subject: Monitoring Report #237

City of Flint Improvement Program - Flint, Michigan

Project: 83:14

Date of Monitoring: November 23, 1987 (working day 229 from 1987 base calendar, or working day 994 from 1984 base calendar).

Note: Dates will be indicated by working days referring to the 1987 base calendar in this and subsequent monitoring reports.

Actions taken:

- Reviewed current status of East Oak Industrial Park grant work
- Reviewed current status of East Oak Industrial Park field work
- Reviewed status of Bishop Airport CFR/SRE facility

East Oak Park Industrial Park

Ken Collard - DPW (in meeting part time)

Don Berry - DPW (in meeting part time)

Richard King - DCD

Denise Heath - DCD

Linda Olivieri - City of Flint Legal Staff (in meeting part time)

Marv Roussel - DPW (in meeting part time)

Chris Knudstrup - Consumers Power - Distribution Engineer

Dick Brilhart - Ace Asphalt - Project Manager

Ralph J. Stephenson, P.E. - Consultant

The union injunction restraining start of field work is apparently still in effect, although, there is some question as to the current status of the injunction.

A notification concerning the contract letting from the city was submitted to the union in a meeting held on October 20, 1987 (working day 205). This meeting was summarized in a letter of October 30, 1987 Monitoring Report #237 City of Flint Improvement Program Page two

(working day 213) written by the city to the union's representative. The letter stated the intent of the city, the understandings relative to grant procedures, and noted that the city was to present the contract to council on November 4, 1987 (working day 216).

The contract is not yet fully executed, although, a contractor, Ace Asphalt, has been selected. There is no authoritative information yet as to whether the contract must be restarted through the signature process. This matter is being investigated by Denise Heath.

There also is some confusion has to whether or not construction can be started until the injunction is legally cleared. There was some discussion of getting a letter from the EDA which would permit work in the field to begin. This letter apparently exists, at present, although no one seems to know for certain that it is available. Construction start now will probably be no earlier than December 21, 1987 (working day 248).

The city is going to request a 120 calendar day extension to the contract after the union matter has been cleared. Denise Heath is also checking on this matter.

A brief review was made of the time frame of the project and key dates are given below.

- Grant award July 21, 1987 (working day 141)
- Construction to have started October 19, 1987 (working day 204)
- From October 19, 1987 (working day 204) had 6 months to complete construction with no clock stop for weather.
- Complete construction April 19, 1988 (working day 332)

This particular time framework is now difficult, if not impossible to meet. Therefore, a time extension will have to be granted to maintain feasibility of performance. If the city obtains a 120 calendar day extension, it would put completion of the project at mid August, 1988. This appears to be an achievable completion date.

Ms. Olivieri was at a portion of our meeting and she mentioned that the union apparently wants a letter from the EDA re conditions of employment under the PWIP. EDA said they cannot furnish such a letter. In addition, it is somewhat doubtful that it is truly needed since PWIP conditions are already a part of the contract. Ms. Olivieri was present primarily to gain background on the project. Monitoring Report #237 City of Flint Improvement Program Page three

In al likelihood, the job will move ahead in the near future, based upon the contract award approval by the city council given on November 6, 1987 (working day 218). I strongly recommend that this entire matter be pursued vigorously. We are nearly out of construction time in 1987. This puts much of the construction into either winter weather or into 1988 spring and early summer. Thus, it is critical to begin work just as quickly as possible.

In light of this and in response to a request from EDA, we updated the network model shown on sheet 174 for the publish area site improvement work in units 1 and 2. This new network model is called issue 6, dated November 23, 1987 (working day 229). In it, work on Dartmouth and Parkland is shown starting on December 21, 1987 (working day 248) and continuing on through demolition of curbs and gutters, and installation of underground utilities this winter. Work there will then resume next spring in 1988. Work at Baker Street is shown as starting next year on April 15, 1988 (working day 330) due to the need to resolve additional relocation issues. These must be cleared before any field work can begin at Baker. Demolition at Baker is followed by demolition at Rankin, and Dayton.

Work at Newell, Warren, and Saginaw is all due to start in the spring, 1988 and continue on through with a late finish of August 16, 1988 (working day 415). It should be noted in the network model, distributed to the group, that the late finish date set for one of the sequences, was referred to as 1987 date. This late finish date at Saginaw, Newell, and Warren should be August 16, 1988 (working day 415). Please correct that notation on your network model.

A copy of the meeting notes from our session is attached to this report.

<u>Crash fire Rescue</u> and <u>Snow Removal Equipment Building</u> - <u>Bishop Air-</u> port (CFR/SRE)

Monitored from building network, issue 4, dated August 5, 1987 (working day 152).

Those attending:

Robert Hidley - Bishop Airport Fred D. Ebel - Airport Foreman - Bishop Airport Archie Campbell - Consultant owner representative Don Berry - DPW Marv Roussel - DPW Linda Olivieri - Attorney with City of Flint Monitoring Report #237 City of Flint Improvement Program Page four

Ralph J. Stephenson, P.E. - Consultant

Precast wall crack patching has been substantially completed and the 4 foot concrete strip around the building exterior has been installed by the city's contractor. This strip work was originally considered to be part of the building contractor's work and matter is still to be resolved relative to its cost.

The change order for revisions to the interior was approved by the city council on October 26, 1987 (working day 209) and the contractor was notified of the approval by Mr. Hidley on October 27, 1987 (working day 210). Work has proceeded under this change order with revisions to the underground mechanical and electrical work being complete, and the slab on grade at the office area poured out. Work is now ready to begin on CFR interior work.

It was estimated by Forrester Construction that remaining work would take about 4 months from the date of approval of the work. This would bring completion to late February, 1988. No formal approval has been given to this time extension as yet and the matter should be checked into carefully to determine the new target finish date required under the contract.

FAA approval of revisions to the building use have not been fully cleared as yet and there, apparently, has been no action since our previous meeting. Mr. Hidley will check on the usage with FAA.

The gas meter at the site apparently is installed but may not yet be hooked up. This should be checked immediately so as not to delay provision of temporary heat.

Snow removal equipment building structural bracing has been relocated and shortened and this, apparently, clear door interferences.

Door controls have been approved for installation. No field installation has yet begun.

The question again came up about the date of official start of liquidated damages. There is no current word on this. Mr. Marv Roussel will obtain the official date from the Michigan Aeronautics Commission. This date should be determined to establish the bench mark from which subsequent time points are determined.

At this meeting Mr. Archie Campbell, who is a consultant to the owner and is the owner's project representative, reviewed the progress to date and what is intended for near future operations. He will be deeply involved in the project and maintaining contact with it on a week to week basis. Monitoring Report #237 City of Flint Improvement Program Page five

A point of interest is that the Airport Authority takes over the airport management from the city of January 1, 1988 (working day 256). No major discussion of the implementations of this was conducted at our session. However, the project and its administration should be examined closely to determine if there is any operational change required under the new airport management structure.

We did not update the network model on sheet 175, issue 4, dated August 5, 1987 (working day 152). This network model is presently being used for study and analysis by the owner. It is to be pointed out that the network plan is preliminary and for the owner's use only. It is not intended to represent a network for the actual construction of the project. The contractor will provide a schedule of his work from now until completion of the project. Mr. Campbell will obtain this schedule.

<u>General</u>

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At our next session we should again review the Oak Park Industrial Park Program and the Bishop Airport CFR/SRE work. In addition, it would be wise to look at the marketing aspects of the Oak Park Industrial Park Program. We were not able to cover this work at our session today due to the press of time. Therefore, it is planned at our next session to cover all aspects of the Oak Park program.

I shall confirm the date of our next session with Mr. Berry in the near future.

Ralph J. Stephenson, P.E.

RJS:gmy

To: Mr. Don Berry

January 7, 1988

Subject: Monitoring Report #238

City of Flint Improvement Program - Flint, Michigan Project: 83:14

Date of Monitoring: December 21, 1987 (working day 248)

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Actions taken:

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- Reviewed current status of East Oak Industrial Park grant work
- Reviewed current status of East Oak Industrial Park field work
- Inspected Bishop Airport CFR/SRE facility
- Reviewed current status of Bishop Airport CFR/SRE facility

East Oak Park Industrial Park

Those attending:

Kathy Stoughton - Director DCD (in meeting part time)

Don Berry, P.E. - DPW (in meeting part time)

Denise Heath - DCD

Marv Roussel - DPW

Ralph J. Stephenson, P.E. - Consultant

The union injunction on the project was lifted December 10, 1987 (working day 241). The contract was fully executed with Ace Asphalt on December 18, 1987 (working day 247) and work has started in the field.

The grant start of work has been extended by the EDA to December 18, 1987 (working day 247); completion has been extended officially by the EDA to August 16, 1988 (working day 416). Thus, the project is now cleared for full work, except for local problems that are proving to be difficult.

On Baker Street, three properties still have not vacated. The city owns the properties but there have been severe difficulties in obtaining vacation of the properties. It may be that a visiting judge will have to sign the notices to allow these properties to become fully available for demolition. There is no word currently on a resolution to this problem. However, all agree that the properties should be fully vacated before starting any Baker Street PASI work.

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This problem has some technical ramifications in that plans for the sanitary sewer service in the area of Saginaw and Baker Streets were to manifold the Rankin sewer to the south into the new Baker sewer to serve two major industrial parcels.

The Baker line runs from Saginaw to North. If work cannot begin in the Baker parcel, then work will be delayed on manifolding the Rankin sewer to the south into this new line. The problem is further compounded by the fact that there apparently are some difficulties with the Rankin sewer at Saginaw. There has been settlement at the sewer at location and there is some thought that possibly the sanitary sewer is damaged. There was no authentic word on this matter at our session but it is being checked by the DPW project staff.

A desired deadline has been set on vacation of Baker Street properties to shortly after the first of the year, 1988. If this is not possible then it would be wise to consider some contingency plans. We discussed some of these briefly at our session and the plans that evolved from that session were:

- Install sewer in a Rankin right of way between Saginaw and North. This, however, would place undesirable restrictions on marketing the property.
- Make a temporary repair to the Rankin and Saginaw sewer. Doing temporary work is an added cost that might not be covered by the grant.
- Build Rankin to Baker manifold and connect to the existing sewer in Baker. However, it is not currently clear whether or not the existing Baker sewer would have enough capacity to handle the manifolded line.
- Construct new Baker Street sewer while maintaining the street. This solution is one that has been used many times in the past, however, it is obviously better to build in an unrestricted right of way than to build in one that must be maintained.

Mr. Rouseel will examine the several alternatives available and make his recommendations in the near future.

The status of actual construction work was evaluated from sheet 174, issue 6, dated November 25, 1987 (working day 231). Gas and electric work have been removed at the following streets.

Parkland Rankin

Dartmouth

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Dayton

Warren

Newell

The contractor removed guard rail at Dartmouth on December 18, 1987 (working day 247) and some pipe and sand backfill has been brought to the site. Expectations are that work on the sewer at Dartmouth will begin on December 21, 1987 (working day 248).

Full construction is expected to proceed substantially in accordance with the current network model being used. However, again, the need for the Baker Street properties is one that must be given priority attention since it is, as noted above, an essential ingredient to work moving ahead in a planned and desirable manner.

<u>Crash Fire Rescue and Snow Removal Equipment Building - Bishop Airport</u> (CFR/SRE)

Monitored from building network, issue 4, dated August 5, 1987 (working day 152).

It must be noted that this network model is preliminary and for the study and analysis purposes of the owner. It is not intended to represent a network for actual construction of the project.

Those attending:

Robert Hidley - Bishop Airport (in meeting part time)

Alan Maule - Bishop Airport Foreman

(NOTE: In Monitoring Report #237, dated November 30, 1987, Mr. Maule's name was noted as Mr. Fred D. Ebel on page 3. This should be revised. Please note the change on your monitoring report).

Archie Campbell - Consultant owner representative

Don Berry - DPW

Ralph J. Stephenson, P.E. - Consultant

In the field, the SRE facility is substantially closed in and work continues on interior installation activities. There apparently is some concern about a difference in floor elevations in the SRE, adjoining the strip drain at the middle of the building. This matter will be investigated and elevation information made available just as guickly as possible.

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Monitoring Report #238 City of Flint Improvement Program Page four

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Work, at present, is being concentrated on completion of mechanical and electrical rough work and installation of mechanical overhead services and equipment in the SRE area. There apparently are still matters to be resolved relative to the automatic door controls. It seems that the method by which these controls are to be installed and operated is still not totally clear to the field forces.

It should be noted that there were no contract field representatives at this session so the door control matter will have to be investigated further before it can be determined if this is actually the case.

Painting is still underway on interior surfaces at the SRE building and this work will continue on through as the other work is completed.

At the CFR area, the floor slab has been poured out and the building is substantially closed to weather. Overhead doors are installed although they are not yet hooked up, and here too, door operator types and location apparently need additional resolution.

Work is being concentrated, at present, on installation of rough mechanical and electrical services. Additional masonry units have arrived on the job site and will be put into place in the very near future. Some interior stud work has been installed although it has not yet started in a production mode.

The current major lag at the CFR appears to be in the installation of masonry, shower bases, painting, and trades that follow. The current status of masonry measures to a point where it was expected to be by about September 21, 1987 (working day 184). Thus, the lag as of December 21, 1987 (working day 248) is estimated at 64 working days. Projecting this from the end date of December 21, 1987 (working day 248), shown as completion in the issue 4 network model, dated August 5, 1987 (working day 152), sheet 175, gives a new projected completion of about April 1, 1988.

Since there was no representation at our meeting from either the architect/engineer nor the contractors, it was not possible to obtain their input for this analysis.

Apparently, the FAA has reviewed the revisions to the building. Mr. Gross of the FAA made these and determined that there was no extra cost to the FAA. However, extra funding will have to be provided from some source. There is still, from the discussion at our session, no written change order on the design revisions to the support area. The question was asked as to why this was the case. No one at our session appeared to have an answer.

Monitoring Report #238 City of Flint Improvement Program Page five

Oil tanks at the site are presently filled with water ballast. There had been some drainage of surface water into the tanks from the surface but this problem has been corrected by allowing the accumulated water at the surface to drain off to adjoining areas.

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So far as the airport authority transfer is concerned, it has been delayed due to extended lease nego+ations between the city and the authority. Mr. Hidley anticipates the transfer will be completed by Feb. 1, 1988 (working day 276).

On December 10, 1987 (working day 241) a comprehensive meeting was held at the airport to discuss subcontractor matters. Representatives of the Bureau of Aeronautics, the FAA, Madison & Madison, Forrester Construction, the City of Flint, and several subcontractors were present. The major discussion at the meeting apparently revolved around payment to subcontractors. This matter was analyzed in depth at the December 10, 1987 (working day 241) session and some resolutions made. However, from a review of the meeting and pending a written report on the session, it appears that there are still some very difficult matters that must be taken care of in the near future if the project is to continue on a full production basis.

Some of the matters discussed dealt with payments, acceptance of materials, pay requests, painting scope of work, and problems with the floor slab in the SRE. It would be advisable and is critical to resolve the matters discussed in a timely fashion so further delays to this project are minimized.

The matter of liquidated damages were also discussed once again. There was no information relative to the official liquidated damages date.

The total time allowed in the original contract was 312 calendar days. As of stop order #3 dated March 16, 1987 (working day 52), 123 of these days had been used. It is important, in order to gain an accurate view of the time structure on the project, to obtain additional information regarding the stop and start orders. Therefore, Madison & Madison will be requested by Mr. Hidley to be at the next meeting.

Information needed for our discussion at the next session includes the following:

- Official dates of all stop and start orders
- Copies of official stop and start orders
- Madison & Madison calculations on the current liquidated damages date

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- Current information on differences in floor elevations at the SRE
- Copies of all change orders

It would also be of help if the contractor could attend the sessions so that there is authentic input relative to both the design process and the contract process in the field.

General

I shall be in touch with Mr. Don Berry shortly to set the date of our next planning and monitoring session. Please accept my best wishes for a happy and prosperous new year.

Ralph J. Stephenson, gy Ralph J. Stephenson, P.E.

RJS:gmy

To: Mr. Don Berry