Port of Seattle Lora Lake Apartments Site

Remedial Investigation/ Feasibility Study

Volume I

Appendix C History of the Lora Lake 1982 Dredged Material Containment Area

HISTORY OF THE PORT OF SEATTLE LORA LAKE 1982 DREDGED MATERIAL CONTAINMENT AREA

(King County Tax Parcel No. 2023049105)

Prepared For:

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August 2011

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1.0 INTRODUCTION

This report summarizes the history of the Port property used in 1982 for the containment of sediment dredged from Lora Lake. The timeframe for this research is from pre-lake dredging planning in 1981 to the present. The Port property in question is located on the east side of the intersection of South 150th Street and 12th Avenue South in the City of SeaTac.

For the purposes of this report, the area is referred to as the *Lora Lake 1982 Dredged Material Containment Area* (DMCA).

The report is divided into two parts. The first part is a chronological historical narrative of the DMCA and is based on a review of archival records from various King County agencies and the county archives. The second part relates to observable land use changes of the DMCA based on a review of historical aerial photography.

Documents referenced in footnotes (Appendix A) and aerial photographs (Appendix B) are attached to this report as electronic files.

2.0 PART ONE: NARRATIVE HISTORY OF THE LORA LAKE DMCA

Although the Port property situated northeast of Lora Lake was used to place dredged materials in 1982, other plans for the property were advanced between 1980 and 1981. In June 1980, the King County Department of Public Works (KCDPW) director sent a letter to the director of aviation for the Port proposing to use Port property for Lora Lake drainage as follows: ¹

The county has an existing storm drain that crosses Des Moines Way and enters at the northwest corner of the lake at a location where we are not able to bring in any equipment. All work has to be done by hand. The residents have asked us to move the drain to eliminate the silt. The line can be rerouted along Des Moines Way then easterly along South 150th Street. From this point it could be directed either to the east side of the lake near the outlet or onto Port of Seattle property. The residents would prefer that it be directed onto the Port property and kept out of the lake.

Members of my staff have met with Lawrence Parks of your Planning Section and representatives of your Engineering Department and discussed this. We are asking to bring the drainage onto your property and for an area to construct a retention pond. We estimate that the pond would have to be approximately 200 x 200 feet, although this would have to be determined by our Hydraulics Division so that all regulations regarding Miller Creek were met.

We would appreciate your views on this proposal. If it is agreeable we will proceed with further survey and engineering.

3

¹ Letter from James Guenther to Donald Shay, dated June 26, 1980 re: "Drainage problems—Lora Lake Area." ¹ King County Archives, Department of Transportation: Road Services Division, Administrative Working Files, Series 629, Accession No. A04-007, Box 12, Lora Lake Folder

Additionally, in a response to citizen concerns about the drainage of Lora Lake, KCDPW noted in a November 1980 letter: ²

As you requested at our meeting on June 10 we are now reviewing the possibility of routing the storm drainage from Lora Lake onto Port of Seattle property. We have had preliminary meetings with the Port regarding use of their land for a storm drain and retention pond. The Surface Water Management Division will be doing a hydraulic study to size the retention pond and outlet controls needed on this property. Also, additional funds over and above what is now budgeted are being requested for this project in 1981.

KCDPW considered this action further in reporting on a Lora Lake citizens meeting held in June 1981: ³

Create a separate retention pond on Port of Seattle property to the east, by-passing Lora Lake altogether. This alternative appealed to some of the owners but County staff indicated real difficulties. The Port and potential developer were not eager to have the pond and the project would cost in excess of \$250,000. It was also pointed out to the Lora Lake owners that the springs presently supplying the lake might not continue to flow after further build-up of the area; it would be advisable to maintain the present surface inflow in some manner.

The proposed rerouting of the storm water outfall from Lora Lake to Port of Seattle property located east of the lake did not occur. For additional information on Lora Lake drainage, please refer to the Stirling Consulting report *Historic Uses of the Port of Seattle Lora Lake Parcel*.

³ Memorandum from Paul Hooper to record re: Lora Lake—Citizens Meeting May 28, 1981. King County Department of Transportation, Road Services Division, Department of Public Works Historical Files, Folder titled "Lora Lake."

² Letter from Paul Hooper, County Road Engineer to Wally Watson re: Storm drainage from Lora Lake, dated November 4. King County Department of Transportation, Road Services Division, Department of Public Works Historical Files, Folder titled "Lora Lake."

2.1 LORA LAKE DREDGING

KCDPW abandoned the idea of rerouting the existing Lora Lake outfall onto Port property to the east, and in 1982 proposed the following: ⁴

Cleaning the lake by dredging the silty material from the lake and depositing this dredge material onto the Port of Seattle property northeast of the lake. A settlement pond is to be constructed at the inlet of the lake to keep it clean in the future.

In March 1982, a meeting was held on the Port property between several KCDPW employees and Fred Silvers and Harry Angelos of the Port regarding uses of the property for the containment of dredged material from Lora Lake. The following meeting notes were taken: ⁵

Based on our field inspection we decided:

- 1. Fred Silvers would check with the Port's planners and other people to see if they have any problems.
- 2. Fred would respond to our letter and get back to me this week with their comments
- 3. It appears the best containment area is between SR-509 and a paved driveway into the Port's property. Whether this will be enough will depend on survey and calculations.
- 4. I asked if we could construct berm using on-area material. They did not object if it is adequate. Harry suggested we have our soils lab look at the material.
- 5. The next step is to wait on the Port's response. If it's affirmative, we should order the survey.
- 6. Negative impact statements and hydraulics permit will probably be required
- 7. Residents adjacent to the sediment basin should be notified of our proposed work and asked for comments
- 8. *Gravity recirculating pipe system should be no problem. Check capacity.*
- 9. John Grover (KCDPW staff) said it may take 18 days working 10 hours a day to dredge lake
- 10. Fred Silvers stated we would need to grant the Port (illegible text)... if it is okay to do this project

⁴ CIP Project Description in files related to King County Ordinance No. 6104 "amending the scope of work and reducing the cost of Lora Lake Drainage." King County Council Ordinances, 1982. RG-012, Series 305, Box 130, Folder "6094-6104". King County Archives.

⁵ Memo (handwritten) by Larry Gibbon to file re: Lora Lake dated April 29, 1982. King County Department of Transportation, Road Services Division, Department of Public Works Historical Files, Folder titled "Lora Lake."

Design Considerations:

- 1. Construct berm adjacent to SR-509 fence
- 2. *May construct two ponds so not to* (illegible text) *up to much water*

In June 1982, KCDPW discussed the necessity of testing Lora Lake water and sediments prior to disposing of the material on Port property: ⁶

One of the requirements to complete the Lora Lake project is locating an area for the purpose of disposing of dredged materials. The area selected is owned by the Port of Seattle. One of the requirements of the Port is that an EP toxicity test be made of dredged water and materials. Lux labs were awarded the contract for testing and the results will be forwarded to the Roads Division during the week of June 14, 1982. If the materials pass the toxicity test, survey field work will begin immediately to provide data for the design of a detention pond on the Port of Seattle property and the design of a rock weir at the outfall location to trap sediments and other pollutants from the surface water that empties into the lake.

A September 1982 KCDPW memo⁷ reveals that four samples were taken to Laucks Testing Laboratories for EP toxicity testing under Purchase Order No. R80582R. Pace Analytical, which acquired Laucks in 2008, was contacted about the existence of those test results, however, the laboratory only retains test results for 10 years; therefore analytical results for these samples are unavailable.⁸

⁶ Memorandum from Paul Taisey to J.W. Guenther re: Lora Lake dated June 14, 1982. King County Department of Transportation, Road Services Division, Department of Public Works Historical Files, Folder titled "Lora Lake." Note that "Lux Labs" is a misspelling of "Laucks."

⁷ Memorandum from Paul Hooper to Charles Kohler re: EP Toxicity Test Charges, P.O. # R80582R, dated September 2, 1982. King County Department of Transportation, Road Services Division, Department of Public Works Historical Files, Folder titled "Lora Lake."

⁸ Personal communication by Dale Stirling with Jim Brownfield, Pace Analytical on February 2, 2011

In October 1982, KCDPW entered into an agreement with the Lora Lake Shore Club to provide engineering and other solutions to lake drainage problems. The first of ten agreed upon items was that "King County agrees to remove or pay for the removal of siltation from the lake bed of Lora Lake in accordance with the plans which are attached as appendix "D" to this agreement" ⁹ The plan was titled *Lora Lake Dredging*, and included a sub-drawing titled *Plan—Port of Seattle Property for Placing of Dredged Material* as well as the following notes about placement of dredged material: ¹⁰

1. Alternate silt pond outlet methods to be discussed with the dredging contractor prior to installing the type II CB-at outlet: a. Pump silt laden waters into containment area during the day. Allow time for silt to settle from the water and then reverse pumps to pump clean water back into the lake. b. Place stop logs between 'I' beams at the outlet of containment area. Pump silt laden water into containment area. As silt settles from water, remove one stop log out at a time to allow clean water to flow into a temporary pipe system and into the lake

- 2. After the completion of dredging operation, grade the entire area to drain southeasterly
- 3. The volume of dredged material is estimated 12,000 Cu. Yd.
- 4. The spoil area and berm will be hydro seeded by others
- 5. Berm and recycle pipe will be constructed by King County prior to dredging
- 6. The berm shall be compacted to at least 95 percent of the maximum relative density

⁹ Attached to a Letter from King County office of the Prosecuting Attorney to David Gross, Attorney at law for the Lora Lake Shore Club, dated October 1, 1982. King County Department of Transportation, Road Services Division, Department of Public Works Historical Files, Folder titled "Lora Lake."

¹⁰ See footnote #2

In the drawing, the proposed dredged material containment area is shown as a roughly rectangular area surrounded by a 6-foot wide berm on the north and south boundaries and a 15-foot wide berm on the eastern boundary. The following annotations were included regarding the dredged material containment area:

- 15' wide berm—top el. 277', side slopes as marked & as shown in sec. "A-A" Construct fabric filter on the inside slope of berm.
- Type II C.B. with 12" CMP outlet draining unsilted water back to Lora Lake.
- 12" CMP to Lora Lake, approx. 600 LF of pipe

In November 1982, under CIP Project No. 600680, KCDPW awarded Contract No. C09420C, Lora Lake Dredging, to Marine Construction & Dredging, Inc. The project was completed in December 1982. For additional information on Lora Lake drainage, please refer to the Stirling Consulting report *Historic Uses of the Port of Seattle Lora Lake Parcel*.

Although records relating to this contract exist in the King County Archives and King County Department of Transportation, Road Services Division, only two sources of information were found relating to the actual placement of dredged materials onto the Port property. The first is from a KCDPW January 26, 1983 letter to the contractor regarding payment based on actual volumes dredged: ¹¹

We have reviewed the information which Mr. Roque submitted and the recalculations which we have done on quantities of material. As we discussed and generally agreed, the total quantity of material dredged is about 16,000 cubic yards. This is a combination of the 10,500 cubic yards from our cross sections and your 5,638 cubic yards figure for volumes dredged above the cross sections. This quantity corresponds with the volume estimated to be in the containment pond.

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¹¹ Correspondence between Rex Knight, Manger of Engineer Services and Ken Youngsman, President of Marine Construction & Dredging, Inc., between December 2, 1982 and May 25, 1983. King County Department of Transportation, Road Services Division, Department of Public Works Historical Files, Folder titled "Lora Lake."

The other was a notice placed in the *Seattle Times* on June 22, 1984 by the county that read:

King County Road Day Labor Construction Project Estimates

Date: 6-22-84

Project Name: Lora Lake Dump Site

Project Number: C46303

Nature of Work: Level and grade waste material

Estimate of Costs: \$4,924.00

Despite the 1982 agreement between the Lora Lake Shore Club and the KCDPW, the club complained in 1983 that the KCDPW was not upholding their agreement. An internal KCDPW memo ¹² responded that:

The berm King County constructed around the Lora Lake dredging spoil area should be breached or leveled. Some adjacent land owners are complaining because it looks bad. I think we should do this quickly because water builds up during the winter and possibly cause the berm to fail resulting in possible siltation of Miller Creek.

Information pertaining to the DMCA after 1983 was not available in archival records.

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¹² Memo from Lou Haff, Maintenance Engineer to Larry Gibbins, Surface Water Management Division, dated October 7, 1983 re: Lora Lake. King County Department of Transportation, Road Services Division, Department of Public Works Historical Files, Folder titled "Lora Lake."

3.0 PART TWO: HISTORICAL AERIAL PHOTOGRAPHY REVIEW

Historical aerial photography was analyzed to determine changes in land use of the DMCA prior to the 1982 dredging through 2010. Features focused on in the aerial photographs include stockpiled material, the berm constructed around the containment area, and land altering activities such as ground clearing, vegetation removal, and establishment of ingress and outgress points. A review of 1969 and 1970 aerial photography is included as the property was being utilized as a staging area for SR-518 construction during this timeframe.

A feature of interest that appears in all aerial photography is Miller Creek. Its presence is most pronounced in the 1969-1970, 1982, 1985, and 1988 aerial photographs. It is not clear whether this is a former channel or the actual course of the creek, however, the channel is situated along the eastern boundary of the DMCA and would have been approximately adjacent to the DMCA berm constructed in 1982. Historical maps and surveys show the creek flowing off the southeast corner of Lora Lake.¹³

3.1 PRE-DREDGING AERIAL PHOTO REVIEW

1969 (WDNR)

This aerial photograph shows the DMCA being utilized as part of SR-518 construction. As 1969 was early in the construction history of the highway; the area may have been in the process of being cleared, although what appear to be spoil or fill piles are situated throughout the area. The entire area is devoid of vegetation and trees, and Miller Creek appears to be situated along the eastern boundary of the area.

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¹³ For example: 1956 Plat of Lora Lake Addition and 1962 Property survey of Lora Lake for Frank Anderson by Ruskin Fisher & Associates. Washington Department of Natural Resources—Public Land Survey Office; and 1980 Lora Lake Drainage Survey by KCDPW.

1970 (WDNR)

This aerial photograph shows continued use of the DMCA by the state highway department related to construction of SR-518. The entire area is devoid of vegetation and trees, and heavy equipment and vehicles are parked on the southwest corner of the area. In addition, there appear to be scattered spoil or fill piles within this area. Miller Creek also appears to be situated along the eastern boundary of this area

1982 (WSDOT)

The August 1982 aerial photograph was taken three months before placement of dredged material in the DMCA. As such, the DMCA appears undeveloped; mostly consisting of scrub vegetation with some trees situated along 12th Avenue S. There is evidence of ground clearing activity, especially off the end of pavement of S. 150th Street and extending into the center of the DMCA. In addition, Miller Creek appears to be situated along the eastern boundary of this area, in the vicinity of the future DMCA.

3.2 POST-DREDGING AERIAL PHOTO REVIEW

1985 (WSDOT)

This aerial photograph clearly shows the DMCA. A berm surrounds the entire perimeter of the area and it appears that trees were removed from the area. It is not clear if material in the center of the DMCA is dredged material or scrub vegetation that wasn't removed during construction of the DMCA. The northwest corner of the area evidences the most ground disturbance and suggests this may have been the access point for depositing the dredged material. As observed in the 1969, 1970 and 1982 aerial photographs, Miller Creek appears to be situated along the eastern boundary of the area.

1988 (Port of Seattle and WSDOT)

From 1988, the aerial topographic survey from the Port, as well as the WSDOT aerial photograph show the DMCA bisected by what appear to be dirt roads that extend into the area from S. 150th Street and reach its northern and eastern boundaries. In addition, the northwest corner is devoid of vegetation indicating either recent land clearing activity has occurred or the area possibly contains dredged material placed six years earlier. The berm constructed around the DMCA is faintly visible and most pronounced on the eastern and southern boundaries of the DMCA. Again, as observed earlier, Miller Creek appears to be situated along the eastern boundary of this area.

1990 (U.S. Geological Survey)

The DMCA is covered with scrub vegetation and trees. The bisection of the area by what appear to be dirt roads is similar to that seen in the 1988 aerial topographic survey, as are vestiges of the berm on the eastern and southern boundaries of this area.

1992 (WSDOT)

The DMCA is covered with scrub vegetation and trees and evidences similar land uses as observed in the 1990 U.S. Geological Survey aerial photograph.

1993 (WSDOT)

The DMCA is covered with scrub vegetation and trees. Observations are similar to those seen on the 1990 and 1992 aerial photographs. In addition, vestiges of the berm are visible along the eastern boundary of this area.

2000 (King County Dept. Natural Resources & Parks: Water & Land Resources Division)

The DMCA is covered with scrub vegetation and trees, and as in the 1993 aerial photograph, vestiges of the berm are visible along the eastern boundary of this area. However, there is little evidence of the apparent dirt roads that bisected the area between 1988 and 1993.

2002 (U.S. Geological Survey)

The DMCA is covered with scrub vegetation and trees. However, ground clearing is evident on the southeast corner of the area and mounds or piles of material of unknown composition are situated in this area as well. Vestiges of the berm are visible on the eastern boundary of this area

2003 (Port of Seattle Aviation Stormwater GIS)

Land uses observed on this aerial photograph are similar to those observed on the 2002 aerial photograph.

2005 (King County Dept. Natural Resources & Parks: Water & Land Resources Division)

The DMCA is covered with scrub vegetation and trees. A dirt access road, likely associated with Seattle-Tacoma International Airport Third Runway construction, has been established along the southern boundary and appears to encroach onto the southern portion of the DMCA.

Ca. mid 2000's (Port of Seattle)

In this poor quality aerial image, the approximate western half of the DMCA appears to have been cleared of vegetation and trees in response to Seattle-Tacoma International Airport Third Runway construction activities. Land uses on the eastern half of the DMCA are not discernable.

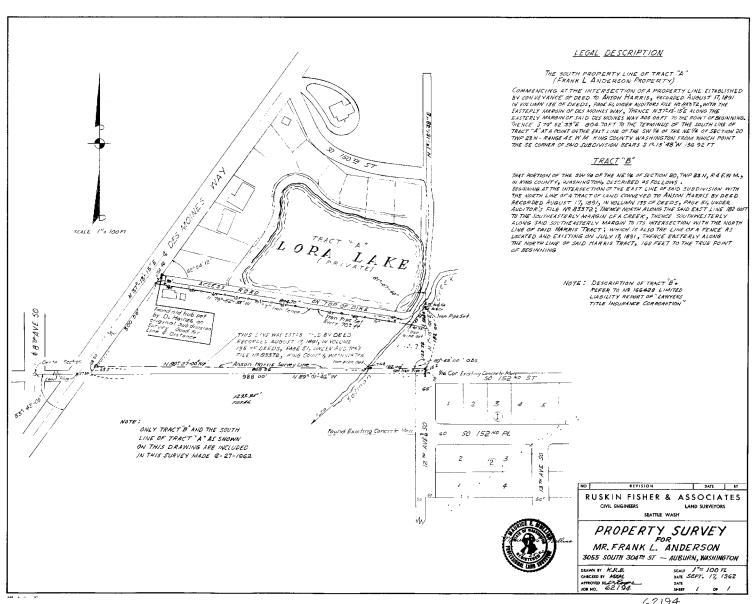
2007 (King County Dept. Natural Resources & Parks: Water & Land Resources Division)

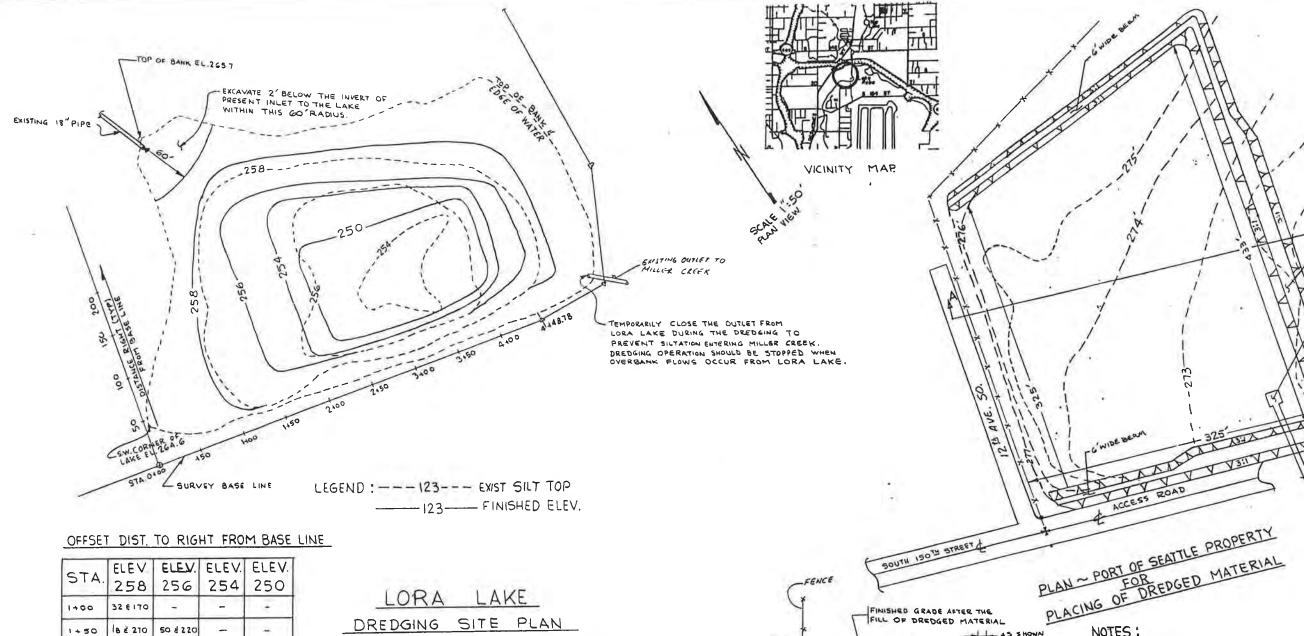
The DMCA is primarily covered with scrub vegetation and trees; however, a small portion on the western boundary of this area has been cleared. An elevated structure extending from the north end of the Seattle-Tacoma International Airport Third Runway to the north side of SR-518 is situated above the clearing. The cleared area is occupied by unidentified buildings and structures, likely associated with this elevated runway feature.

(Port of Seattle Aviation Stormwater GIS)

This is the most recent available aerial photo of the DMCA. The majority of the area is covered with scrub vegetation and trees; however, what appears to be a spoil or fill pile of undetermined origin extends into the eastern boundary of the area from the adjacent eastern property. As this feature does not appear in earlier aerial photographs, it is unrelated to the 1982 dredging of Lora Lake. The buildings and structures occupying the western boundary of the area in 2007 are no longer present; however, a small structure, resembling a semi-trailer, is situated on the southwest corner of the area. In addition, the elevated structure extending across and above the western boundary of the DMCA remains.

APPENDIX A: FOOTNOTE REFERENCES





STA.	ELEV	ELEV.	ELEV.	ELEV.
	258	256	254	250
1+00	32 € 170	-		
1+50	le € 210	50 4 2 20	-	+
2 +00	30 £ 277	43 4 240	50 € 215	
2+50	27 € 267	38 4 232	44 € 21G	54 4 166
3+00	18 4 253	34 4 215	40 4 204	50 \$ 163
3+50	22 4 240	35 4 200	40 4 190	50 4162
4+00	27 4 225	40 € 185	50 € 174	GO € 160
4 + 4 8 - 7 8	37 € 225	57 4 180	140 6 170	_

LORA LAKE DREDGING SITE PLAN

LEGAL DESCRIPTION OF LAKE: Tract "A", Lora Lake Addition, as recorded in Volume 57 of Plats, page 24 Records of King County, Washington, Tax #440140-0060.

FINISHED GRADE AFTER THE FILL OF DREDGED MATERIAL NOTES: -EL.277 EXISTING GRADE TO CONSTRUCT BERM TO CONSTRUCT DERM CONSTRUCT FABRIC FILTER ON THE INSIDE SLOPE OF BERM SECTION A-A TO SCALE EL. 275.5

12" CMP MV. EL. 273.0

> TYPE II C.B. DETAIL

ALTERNATE SILT FOND OUTLET METHODS TO BE DISCUSSED WITH THE DREDGING CONTRACTOR PRIOR TO INSTALLING THE TYPE II CONTROL OF THE DAY.

PUMP SILT LADEN WATERS INTO DISPOSAL SITE DURING THE DAY.

ALLOW TIME FOR SILT TO SETTLE FROM THE WATER AND THEN REVERSE PUMPS TO PUMP CLEAN WATER BACK INTO LAKE.

b. PLACE STOP LOGS BETWEEN "I" BEAMS AT THE OUTLET OF DISPOSAL AREA. PUMP SILT LADEN WATER INTO DISPOSAL AREA. AS SILT SETTLES FROM WATER, REMOVE ONE STOP LOGOUT AT A TIME TO ALLOW CLEAN WATER TO FLOW INTO A TEMPORARY PIPE SYSTEM AND INTO THE LAKE.

2. AFTER THE COMPLETION OF DREDGING OPERATION, GRADE THE ENTIRE SITE TO DRAIN SOUTHEASTERLY.

3. THE VOLUME OF DREDGED MATERIAL IS ESTIMATED 12,000 CULYDS.

4. THE SPOIL AREA AND BERM WILL BE HYDROSEEDED BY OTHERS.

5. BERM AND RECYCLE PIPE WILL BE CONSTRUCTED BY KING COUNTY PRIOR TO DREDGING.

6. THE BERM SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM RELATIVE DENSITY.

7 IF ALTERNATE METHODS AS SHOWN IN NOTES 14 AND 15 ARE USED, A PLAN MUST BE SUBMITTED TO THE DEVELOPMENT REVIEW SECTION OF THE DIVISION OF SURFACE WATER MANAGEMENT.

KING COUNTY DEPT. OF PUBLIC WORKS LORA LAKE DREDGING

2000-85

MENDED BY M. A. JUNE JO

LARRY R. GIBBONS

Sur. # 20-23-4-29

MICROFIL MED

DATE



King County State of Washington John D. Spellman, County Executive

Department of Public Works

James W. Guenther, Director 900 King County Administration Building 500 Fourth Avenue Seattle, Washington 98104

Telephone: (206) 344-2517

June 26, 1980

Mr. Donald G. Shay Director of Aviation Port of Seattle P.O. Box 1209 Seattle, WA 98111

Re: Drainage Problem - Lora Lake Area

Dear Mr. Shay:

We have been working with a group of residents who live adjacent to Lora Lake, which is located along the northwest edge of the Airport.

The County has an existing storm drain that crosses Des Moines Way and enters at the northwest corner of the lake. The storm drain carries a fine silt into the lake at a location where we are not able to bring in any equipment. All work has to be done by hand. The residents have asked us to move the drain to eliminate the silt. The line can be rerouted along Des Moines Way then easterly along South 150th Street. From this point it could be directed either to the east side of the lake near the outlet or onto Port of Seattle property. The residents would prefer that it be directed onto the Port property and kept out of the lake.

Members of my staff have met with Lawrence Parks of your Planning Section and representatives of your Engineering Department and discussed this. We are asking to bring the drainage onto your property and for an area to construct a retention pond. We estimate that the pond would have to be approximately 200 X 200 feet, although this would have to be determined by our Hydraulics Division so that all regulations regarding Miller Creek were met. Sketches of the approximate locations are attached for your information.

Mr. Donald G. Shay Page 2 June 26, 1980

We would appreciate your views on this proposal. If it is agreeable we will proceed with further survey and engineering.

Thank you for your consideration of the matter.

Very truly yours,

James W. Guenther

Director

JWG:JHM:cc

Attachments

cc: Wally Watson

To V

King County State of Washington John D. Spellman, County Executive

Department of Public Works

James W. Guenther, Director 900 King County Administration Building 500 Fourth Avenue Seattle, Washington 98104

Telephone: (206) 344-2517

November 4, 1980

Mr. Wally Watson 15040 Des Moines Way South Seattle, WA 98148

Re: Storm Drainage from Lora Lake

Dear Mr. Watson:

As you requested at our meeting on June 10 we are now reviewing the possibility of routing the storm drainage from Lora Lake onto Port of Seattle property.

We have had preliminary meetings with the Port regarding use of their land for a storm drain and retention pond. The Surface Water Management Division will be doing a hydraulic study to size the retention pond and outlet controls needed on this property. Also, additional funds over and above what is now budgeted are being requested for this project in 1981.

This new route will delay actual construction approximately one year as was explained to you. At this time, we do not feel that construction will start until early summer of 1981. I hope this will help bring you up to date on this situation.

Very truly yours,

Paul C. Hooper, P.E. County Road Engineer

PCH:JHM:cc

King County Dept. of Public Works

EMORANDUM

Date June 2, 1981

RECORDS CERTER

To

RECORD

From

PAUL C. HOOPER RMC

Subject LORA LAKE - CITIZENS MEETING MAY 28, 1981

A meeting was held on the subject of Lora Lake at the home of Frank Yellum, 15052 Des Moines Way South at 7:30 PM on Thursday May 28, 1981.

County staff attending were the following:

Paul Hooper, County Road Engineer Paul Taisey, Operations Engineer Larry Gibbons, Project Engineer, Surface Water Management Stuart MacVeigh, Assistant Design Engineer Korman Olsen, Road Designer George Martonik, Representative of Councilman Bob Greive

Adjacent owners who attended are listed in the attached roster.

Mr. Hooper reviewed the County's involvement with Lora Lake since 1975 and earlier, mentioning concerns with problems of drainage and siltation.

Larry Gibbons said most of the silting appeared related to construction in the early '70's, such as construction of SR 518 and re-work of a wrecking yard in the area. Current and future deposit of debris in the inflow at the northwest corner should be much less.

Larry discussed several alternatives:

- 1. Leave inflow as is. Build loose rock dike on about a 20' radius to create area in which silt can settle out and be removed periodically by County crews. This alternative was cheapest but entailed problems of access for County equipment. Also, the adjacent owners objected that this inflow area already tended to be stagnant and full of debris. The rock dike they felt would only make things worse.
- Block present inflow. Conduct water by pipe around north and east sides and into Lake in vicinity of present outflow. This would keep the County legal with respect to run-off into nearby Salmon Creek. It would also provide effective catchment of silt by several catch basins in the line before entering

Memorandum: Record

Page 2

June 2, 1981

Lora Lake. It would necessitate an easement across a l' wide strip of property on the east side to permit access for construction and maintenance. Cost of this alternative was within present available funds of about \$120,000. It appeared generally acceptable to the owners present.

3. Create a separate retention pond on Port of Seattle property to the east, by-passing Lora Lake altogether. This alternative appealed to some of the owners but County staff indicated real difficulties. The Port and potential developer were not eager to have the pond and the project would cost in excess of \$250,000. It was also pointed out to the Lora Lake owners that the springs presently supplying the Lake might not continue to flow after further build-up of the area; it would be advisable to maintain the present surface inflow in some manner.

One of the owners, Wally Watson, said he felt the County bore responsibility for the silting up of the Lake, which had resulted in lessening the typical depth from 14 feet to only 9 feet. His attorney had given the owners advice to this effect. He said the County should undertake to clean out the Lake, i.e., remove all the material presummably carried in with the inflow; and thereafter to come back periodically, say every five years, to repeat the process. He said this commitment by the County was more important to him than re-routing the inflow.

There was some further discussion of all these points. Mr. Hooper said he would have to seek advice from the Prosecutor's office as to the extent of the County's responsibility for siltation of the Lake. He said the Department wanted to cooperate with the neighborhood in solving the problem. However in taking any steps, consideration would have to be given to the limitation in public funds and the practicalities of construction and future maintenance. He said that within a few weeks, following study of the situation, Department staff would be back in touch with the owners. If the #2 pipe-around alternative was decided on as being best, construction could possibly be started late this summer.

The meeting concluded with apparent feeling of mutual understanding between County staff and the owners.

SM:cq

Enclosure

cc: All attendees
Darrell Syferd, Deputy Prosecutor
Sandy Adams
Dave Aggerholm

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28 29 BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

SECTION 1. There is hereby approved and adopted a change of scope for Lora Lake Drainage, Capital Improvement Project No. 600680.

SECTION 2. The project information sheet attached hereto is adopted to amend and revise the 1982 Capital Improvement Program and Budget; amending Ordinance No. 5757, Section 70, Attachment No. 1, as amended.

SECTION 3. Ordinance No. 5757, Section 71, is hereby amended to read as follows:

Accumulated unexpended prior years appropriations from several capital improvement project funds for the specific projects identified and contained in Attachment No. 1 to this ordinance are hereby cancelled as follows:

({\$860,281})

County Road Construction ((\$1,554,379)) \$1,591,379 INTRODUCED AND READ for the first time this _/6 th day of <u>luguet</u>, 1982. PASSED this 231d day of august

> KING COUNTY COUNCIL KING COUNTY, WASHINGTON

Lois North

ATTEST:

Th. Acume Clerk of the Council

County Roads (CIP Only)

2 nd

APPROVED this 30

day of

32

31

33

\$897,281

King County Council

AUDREY GRUGER, Dist. No. 1 SCOTT BLAIR, Dist. No. 2 BILL REAMS, Dist. No. 3 LOIS NORTH, Dist. No. 4 RUBY CHOW, Dist. No. 5 BRUCE LAING, Dist. No. 6 PAUL BARDEN, Dist. No. 7 BOB GREIVE, Dist. No. 8 GARY GRANT, Dist. No. 9



King County Council

Lois North, Chairman Mary Matilda Jones, Council Administrator Gerald A. Peterson, Deputy Council Administrator Room 402, King County Courthouse Seattle, Washington 98104

(206) 344-2500

6104

August 12, 1982

TO:

Scott Blair, Chairman

Fiscal Management Committee

FROM:

Peter Hahn, Council Staff

SUBJECT: Proposed Ordinance 82-446:

Amendment to project scope

and cost of Lora Lake

Drainage

Project History: The existing drainage outfall at Lora Lake has been depositing silt, sand, oil and debris from nearby roads and properties for many years. The Lora Lake Homeowners have asked the County to correct this condition because the lake has ceased to serve its former recreational purposes.

Original Project Scope: The County's original plan to remedy the siltation problem at the Lake was to reconstruct the drainage system around the south side of the Lake and have it discharge into Miller Creek.

The Prosecuting Attorney reviewed the proposed project and questioned whether the rerouting of the drainage system would remedy the existing problem of heavy siltation in the lake. With a concern for potential lawsuits from residents, the scope of the project was changed to dredging the silt from the lake, depositing it at nearby Sea-Tac property, and constructing a settlement pond to catch silt, debris, etc. before it gets into the lake. The settlement pond would be cleaned once a year and the silt would be deposited on the Port of Seattle's property.

The revised project scope is estimated to cost Fiscal Impact: \$98,000 -- \$37,000 less than the original budget.

Staff Recommendation: A do pass.



King County Executive
Randy Revelle

August 3, 1982

RECEIVED

HA7 AUG -3 PH 4: 00

CLERK KING COUNTY COUNCIL

Naggard - Buden - FM

The Honorable Lois North Chairman, King County Council C O U R T H O U S E

RE: Change of Scope for Lora Lake Drainage

Dear Madam Chairman:

If approved, the enclosed ordinance will change the scope of work for Lora Lake drainage. This ordinance request is based on the recommendation of the Prosecuting Attorney's Office.

The proposal identified in the October 1981 CIP description included eliminating the existing outfall into Lora Lake and the replacement of the existing storm drainage system with a new alignment around the south side of the lake to a discharge point in Miller Creek.

The new proposal calls for cleaning the lake by dredging the silty material from the lake and depositing this dredge material onto the Port of Seattle property northeast of Lora Lake. A settlement pond is to be constructed at the inlet of the lake to keep the lake clean in future. The Port of Seattle has agreed to allow the County to use their property for the dredge material. This revised scope of work should result in savings of \$37,000 over the earlier proposal.

This ordinance will have no adverse impacts on the County's fiscal affairs. The Council's early consideration of this matter is appreciated.

If you have any questions about this matter, please call Shelly Yapp, Director, Budget Department at 344-3434.

RANDY REVELLE King County Executive

RR/JRE:gn Enclosure

cc: King County Councilmembers
Mary Jones, Council Administrator
Jerry Peterson, Deputy Council Administrator
Jim Guenther, Director, Department of Public Works
Shelly Yapp, Director, Budget Department
ATTN: Bob Edmundson, Budget Analyst

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IMPROVEMENT

(37,000)

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PRIOR YRS REV

REVENUE TOTALS

REVENUE AVAILABLE

7. 7.1 Lora Lake From: Lang Carppor Subject: Loca Lake A meeting wer held at the Port of Seettle property adjacent to Lora lake on March 29, 1982. to discuss the potential of using the Port's property for a sediment buin for lon leve. The following people were greent: Bosed of our field inspection me decided: other People to see it thus have any problems. 2. Fred would respond to one letter and get back to me this week with their comments. 3. It appears the but disposed area is between 502509 and a pared drivening indo the Port's property. Whether this will be enough will depend on survey end colonlations, 4. I asked if we could continue been using an-site meterial. Thun did not object if it is adequate.

James suggested we have one soils lab look at the material. 5. The next step is to west on the Ports response. If it's allinative, we should order the survey, b. Nestine in pade stotemente and hydraulics permit will probably be required. 5. Revidents edgacent to the redinal being being being being being of our brobases mark ong oriked for commens. 18. Corondo popo recircalating pipe system should be no problem. Check engity. 9. John Cover sort it mus take 18 days working to hours a day 10. Fred Siever's stated we would need to grant the Post and releve to do the propert. Dusign Consider Amers: 1. Construct born abjected to 52509 fonce z. May construct two goods so not to do enp to much water.

King County Dept. of Public Works 6-72-8 RECORD CENTER

MEMORANDUM

Date June 14, 1982

oT

J. W. Guenther via Paul C. Hooper

From

Faul ω \int au

Subject LORA LAKE

This will respond to your request of June 7, 1982, regarding a status report on the Lora Lake project.

One of the requirements to complete the Lora Lake project is locating a site for purposes of disposing of dredged materials. The site selected is owned by the Port of Seattle. One of the requirements of the Port is that an EP toxicity test be made of dredged water and materials. Lux Labs was awarded the contract for testing and the results will be forwarded to the Roads Division during the week of June 14, 1982.

If the materials pass the toxicity test, survey field work will begin immediately to provide data for the design of a detention pond on the Port of Seattle property and the design of a rock weir at the outfall location to trap sediments and other pollutants from the surface water that empties into the lake.

Jim Brewer of the Prosecuting Attorneys Office has informed the attornies representing the Lora Lake Community Club of the progress being made.

Due to budgetary constraints, a contract will have to be awarded to construct the detention pond and the installation of two manholes in the existing storm drain system.

It is anticipated County day labor forces will construct the weir at the outfall of the storm drain system where it enters the lake.

Assuming the EP toxicity test is OK, construction would begin by September 1, 1982.

PCH/PWT:ap

King County Dept. of Public Works

MEMORANDUM

Date September 2, 1982

oT

Charles T. Kohler, Manager, Purchasing

From

Paul C. Hooper, County Road Engineer

Subject

EP TOXICITY TEST CHARGES, P.O.# R80582R

The King County Department of Public Works was required to provide an analysis of the silt material that we propose to dredge from the bottom of Lora Lake. This requirement was requested by the Port of Seattle since we plan to dump the dredgings on Port property.

The price quoted by Mike Nelson of Laucks Testing
Laboratories was \$365.00 per sample for an E.P. Toxicity
test. However, due to a misunderstanding, four samples
were taken to the testing laboratory by Public Works
personnel. We feel that no error was committed by the
people from Laucks Laboratories and the invoice from
them should be paid as submitted.

PCH/WH:syl

cc: Jim Pomeroy, Manager, Finance Section
Paul W. Taisey, Manager, Operations Planning

HAME LING COUNTY PROJECTIONS MINES AND OFY
WORKER COSC KC COUNTY PROJECTION OF PECE PE

AGREEMENT BETWEEN
THE LORALAKE SHORE CLUB
AND KING COUNTY

PROSPECUTIVE THE VEY

NOV 23 1 21,

WHEREAS, THE LORALAKE SHORE CLUB (hereinafter referred to as the "SHORE CLUB") is comprised of the eleven (11) individuals and marital communities that own equal, undivided one-eleventh interests in a lake known as Loralake. These individuals and marital communities are listed in Appendix "A", attached hereto. Loralake is designated as Tract A of Loralake Addition, per plat recorded in Volume 57 of Plats, page 24, records of King County, Washington. The members of the SHORE CLUB are also the owners of the eleven parcels of waterfront property that adjoin Loralake on the west and on the north, all situated in King County, Washington; and

WHEREAS, the SHORE CLUB contends that KING COUNTY has, for many years, deposited silt and other pollutants into Loralake by intentionally bilding and maintaining a drainage system which collects surface water runoff from surrounding areas and directs that surface runoff into Loralake; and

WIEREAS, the SHORE CLUB and its members contend they have suffered damages as a result of the pollution of Loralake by KING COUNTY, such damages including the build-up of pollutants and silt in Loralake which has resulted in a loss of the use and

22/11/23 #0704 RECD F .00 CASHSL *****.0 enjoyment of Loralake to its owners and a decrease in the value of Loralake: and

WHEREAS, KING COUNTY contends that the deposition of silt and other material into Loralake is a natural process which has been accelerated by the developer of Loralake through the artificial creation of Loralake within a pre-existing natural water-course, thereby providing greater depth and volume of water in which silts may more freely settle out than in the natural condition; and

WHEREAS, KING COUNTY contends that it is not its responsibility to remove all sediments or pollutants from drainage which reaches its roadway drainage system or is thereafter discharged to a watercourse; and

WHEREAS, the SHORE CLUB has been negotiating with KING COUNTY for many years to resolve the pollution and siltation problem which KING COUNTY has caused at Loralake; and

WHEREAS, all parties believe they would prevail in litigation and subsequent appeals of this matter, but are desirous of settling the existing dispute between them without further expense or delay; NOW, THEREFORE,

IN CONSIDERATION of the mutual promises, covenants and agreements herein, the parties hereby agree as follows with the intent that each be legally bound;

1. KING COUNTY agrees to remove or pay for the removal of siltation from the lake bed of Loralake in accordance with the plans which are attached as appendix "D" to this agreement.

- 2. KING COUNTY agrees to create two additional large catch basins above the current outfall into Loralake which will be designed to remove sediment and oil from the surface water which empties into Loralake. These catch basins are more fully described in Appendix "B", attached hereto.
- 3. KING COUNTY agrees to place a rock weir system with a twenty-five foot radius at the existing location for the outfall into Loralake; such rock weir system to be designed to trap sediment from the surface water which empties into Loralake. This rock weir system is more fully described in Appendix "C", attached hereto.
- 4. KING COUNTY agrees to maintain and clean the catch basins and rock weir system on an annual basis.
- 5. KING COUNTY agrees to restore all property around Loralake which is used by KING COUNTY to gain access to Loralake or to perform the work described in this Agreement to the condition the property was in before it was used by KING COUNTY.
- 6. KING COUNTY agrees to provide the SHORE CLUB and its members with an artist's conception of the rock weir system before any work is performed on that system, and KING COUNTY further agrees to work with the SHORE CLUB and its members to make the rock weir system as attractive as possible.
- 7. KING COUNTY agrees to perform the various elements of the work set out in this Agreement in a systematic and logical order which will minimize the possibility that additional silta-

tion and oil will enter Loralake and which will allow for the completion of all work by November 30, 1982, except for construction of the rock weir system provided in paragraph 3 above which shall be completed by June 1, 1983. King County shall also remove sediment according to the plan accumulating from the outfall between the time silt removal is complete and when the rock weir is constructed.

- 8. KING COUNTY agrees to reimburse the SHORE CLUB \$2,710.35 for attorneys' fees and costs which it has incurred as part of its effort to reach an agreement with KING COUNTY.
- 9. The SHORE CLUB and/or its members will authorize and execute the necessary easements to allow KING COUNTY to gain access to Loralake or to perform the work described in this Agreement and by this agreement hereby authorize KING COUNTY and its agents and contractors to enter onto property owned by the SHORE CLUB or any member for the purpose of performing the silt removal described in paragraph 1.
- 10. Upon completion of the first eight (8) elements of this Agreement, the SHORE CLUB will release KING COUNTY from any and all liability for the siltation and pollution of Loralake which has or may have occurred prior to the date of this Agreement. However, this Agreement is not intended to and should not be construed to be a release by the SHORE CLUB of KING COUNTY for liability for pollution and siltation of Loralake caused by KINC COUNTY after the date of this Agreement.

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SECONDICIONAL DE CONTRACTOR D

THE LORALAKE SHORE CLUB	KING COUNTY
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Jimmy Broeze	Deputy Prosecuting Attorney
Jimmy Breeze	
"Duke" Thomas De La Hunt	
	2.4
Margone Holmstrom - Maryo	an Vallestrom
Jane Johnson	
Gred McGonagill	
Eleanore Vistaunet	
Wally Watson	
Theresa Watson	

Georgia Wardall

Jip Wilcher

Wirginia Milcher

Frank Yollam

(Jesselina Milana

APPENDIX A

Jimmy Breeze 1041 South 150th Street Seattle, Washington 98148

Jane Johnson 1033 - South 150th Seattle, Washington 98148

Marian Belt 1029 South 150th Seattle, Washington 98148

Margene Holstrom 1021 South 150th Seattle, Washington 98148

Georgia Wardall 1009 South 150th Seattle, Washington 98148

Jim Wilcher 15006 Des Moines Way South Seattle, Washington 98148

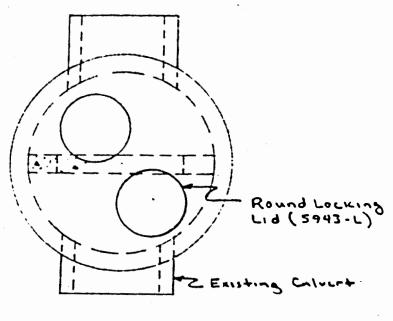
Greg McGonagill 15010 Des Moines Way South Seattle, Washington 98148

"Duke- Thomas De La Hunt 15016 Des Moines Way South Seattle, Washington 98148

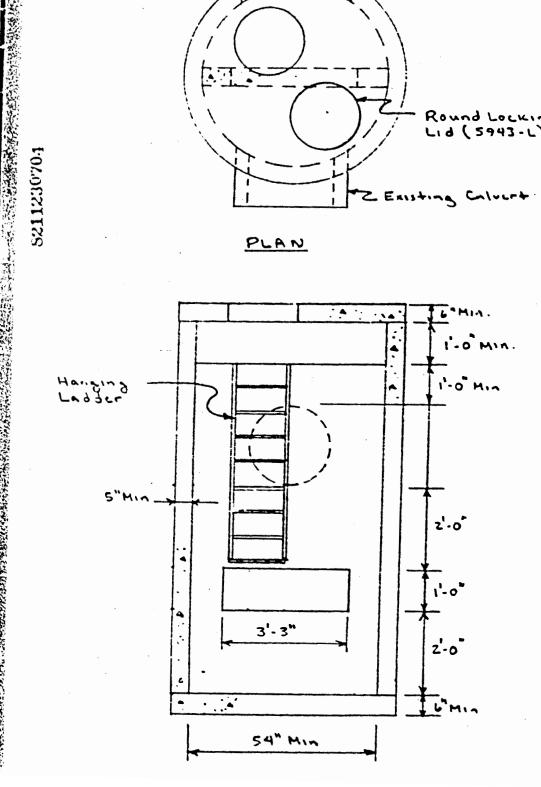
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Wally Watson 15040 Des Moines Way South Seattle, Washington 98148

Frank Yellam 15052 Des Moines Way South Seattle, Washington 98148 THE STATE OF THE PROPERTY OF T

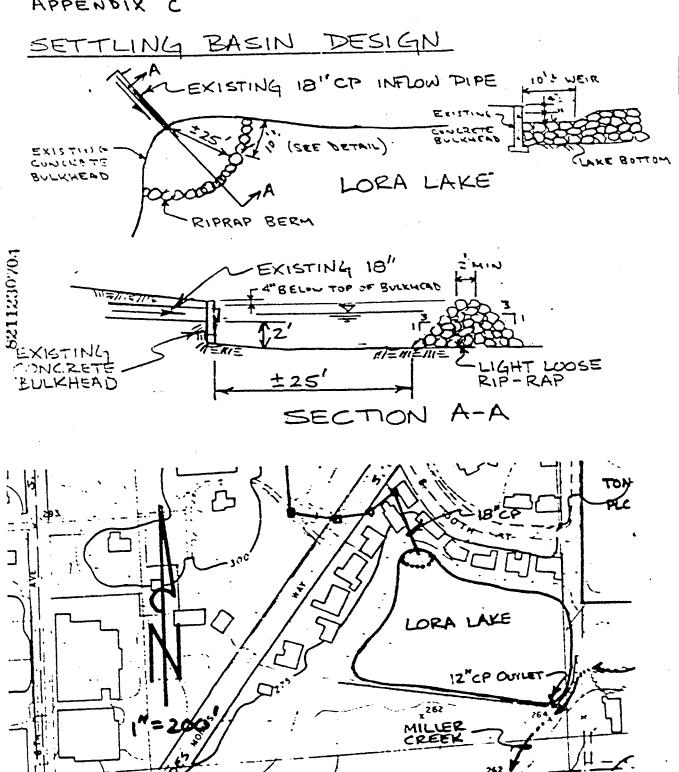


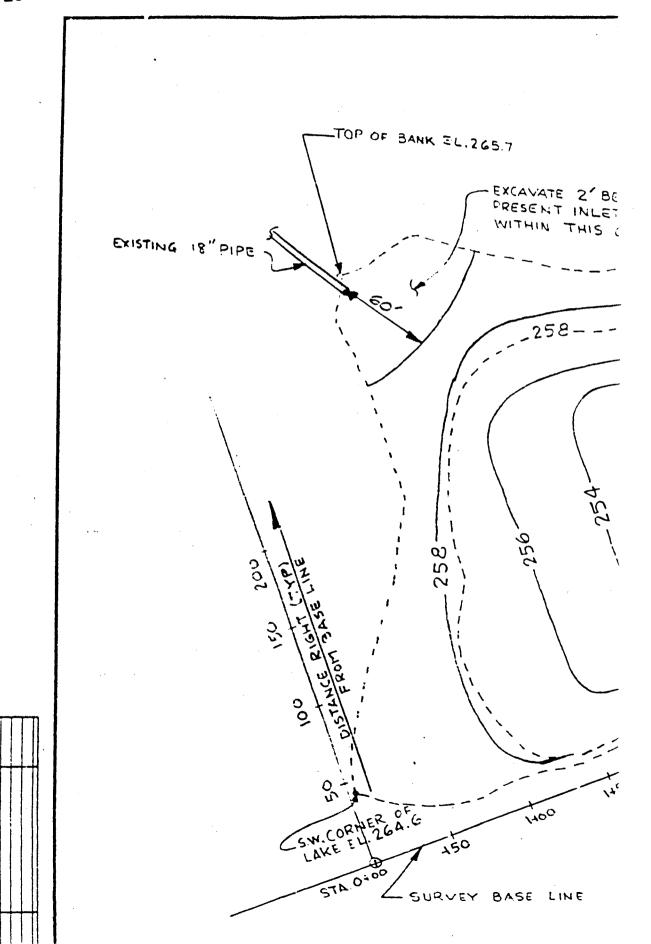
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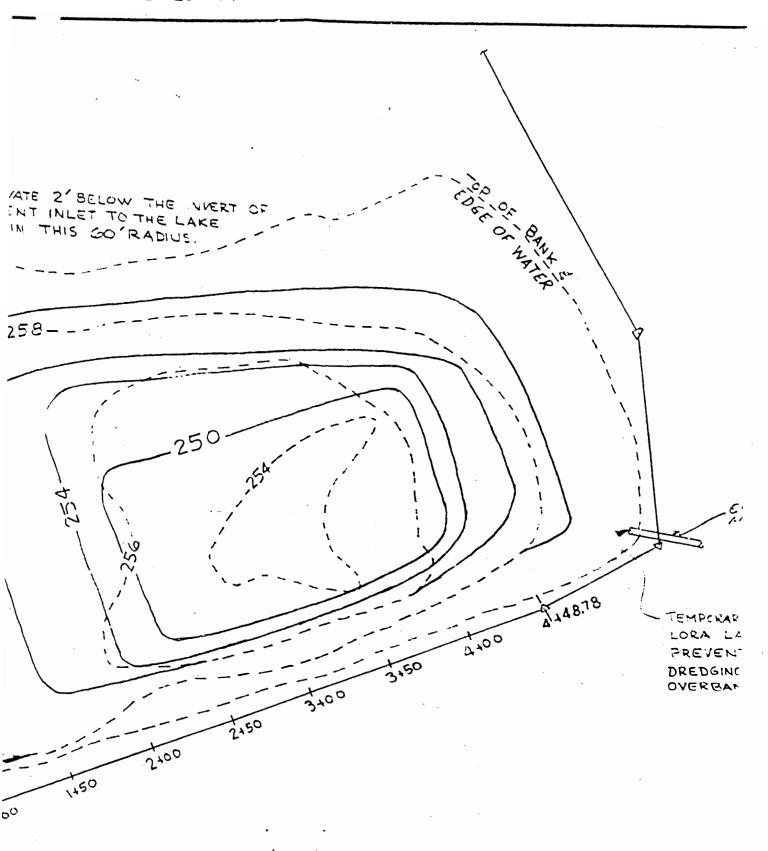


APPENDIX "C"

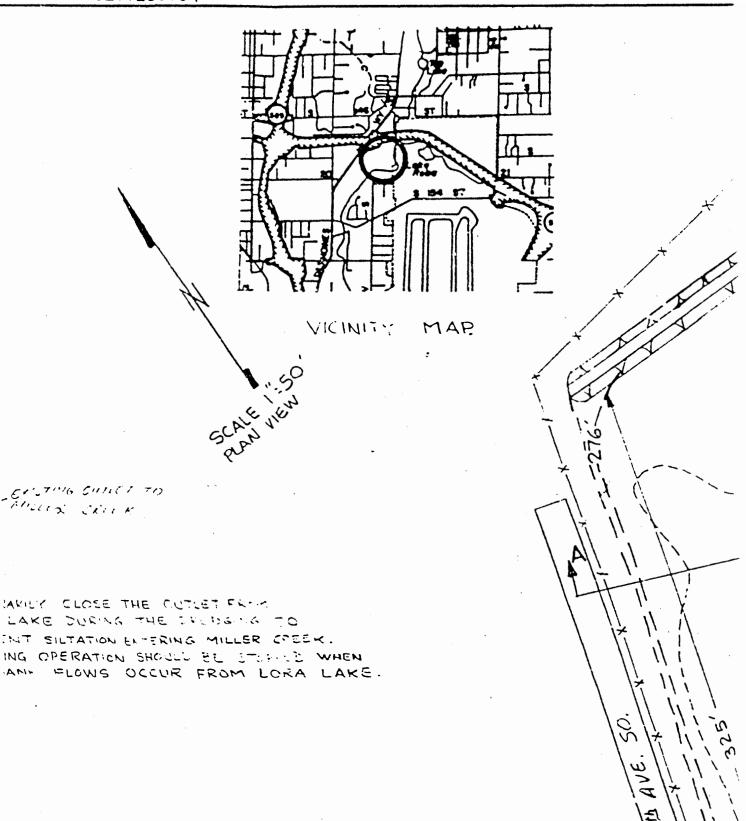
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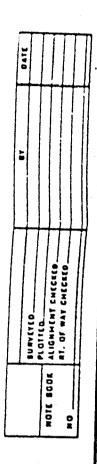


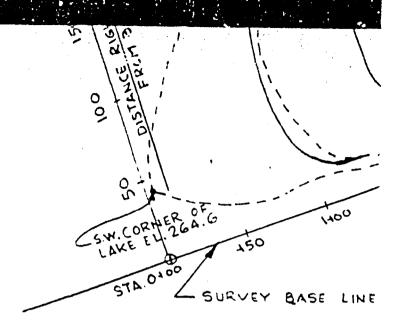




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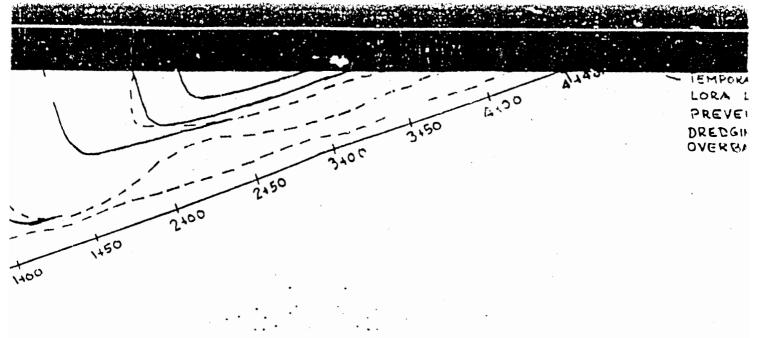






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LORA LAKE
DREDGING SITE PLAN

DESCRIPTION OF PROPERTY COMES

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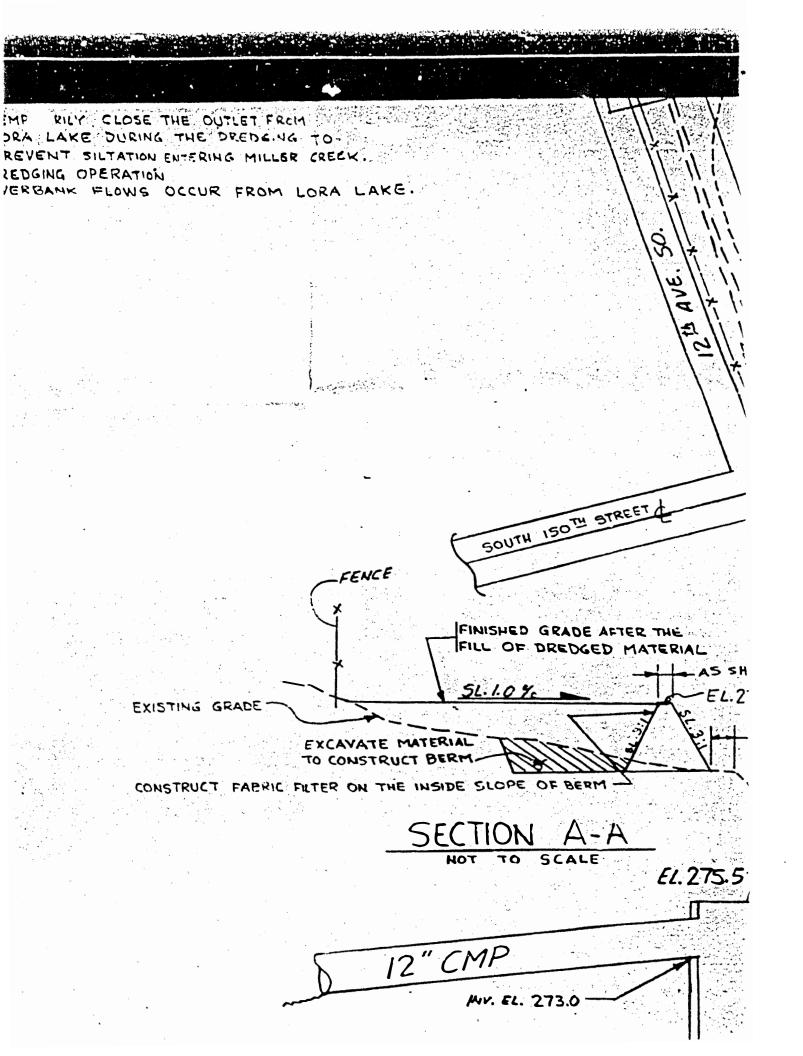
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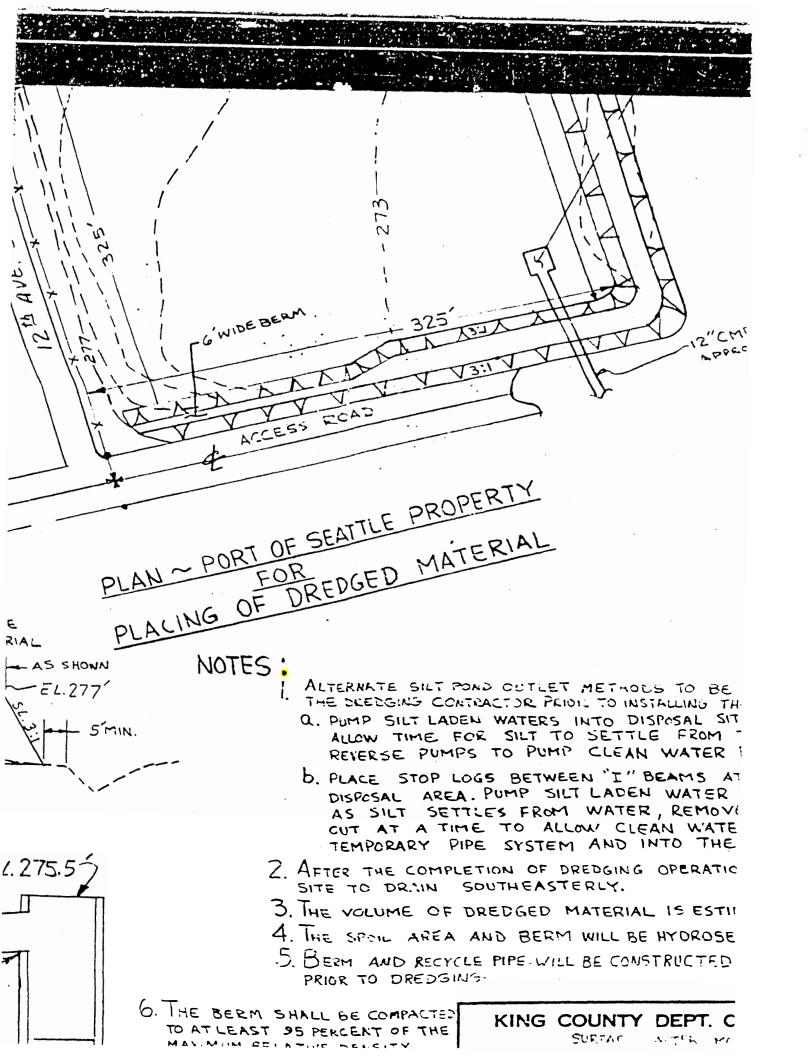
1 FREE SHOWS THE TAT LOT 487 and 17

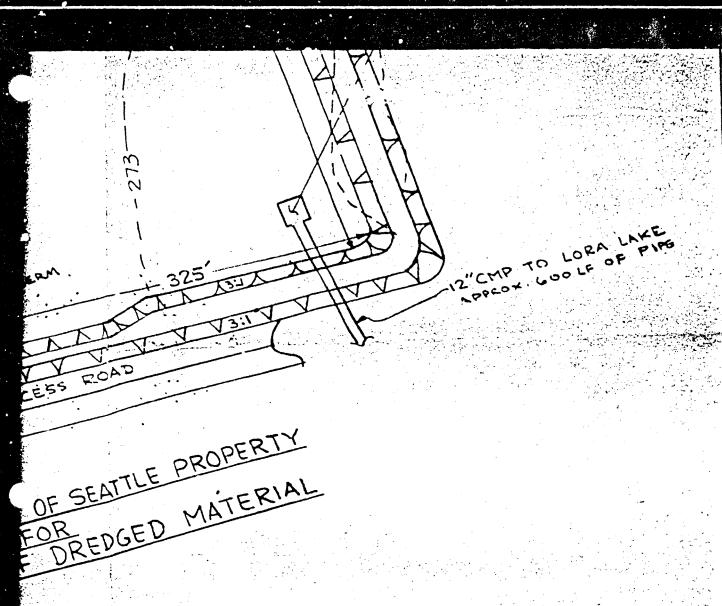
The North 134 fort of the Couth 13 acres of the Southeast is of the Northcest is of Soction 20, Tourishly 23 merts, Prope 4 East, M.H., in King County, Men'highest less that portion lying Easterly of the Northerly prolongeron of the contertion of 16th Annua South, as shown on the Plat of Susset Terraci Addition, as recurred to volume 60 of Plats, Page 63, recards of King County, Neahington.

LEGAL TESCRIPTION OF LAKE:

The time to the iddition as recorded in







- ALTERNATE SILT POND OUTLET METHODS TO BE DISCUSSED WITH THE DREDGING CONTRACTOR PRIOR TO INSTALLING THE TYPE II CH AT OUTLET:
- Q. PUMP SILT LADEN WATERS INTO DISPOSAL SITE DURING THE DAY. ALLOW TIME FOR SILT TO SETTLE FROM THE WATER AND THE REVERSE PUMPS TO PUMP CLEAN WATER BACK INTO LAKE.
- b. PLACE STOP LOGS BETWEEN "I" BEAMS AT THE OUTLET OF DISPOSAL AREA. PUMP SILT LADEN WATER INTO DISPOSAL AREA. AS SILT SETTLES FROM WATER, REMOVE ONE STOP LOG OUT AT A TIME TO ALLOW CLEAN WATER TO FLOW INTO A TEMPORARY PIPE SYSTEM AND INTO THE LAKE
- 2. AFTER THE COMPLETION OF DREDGING OPERATION, GRADE THE ENTIRE SITE TO DRAIN SOUTHEASTERLY.
- 3. THE VOLUME OF DREDGED MATERIAL IS ESTIMATED 12,000 CV.YD
- 4. THE SPOIL AREA AND BERM WILL BE HYDROSEEDED BY
- 5. BERM AND RECYCLE PIPE WILL BE CONSTRUCTED BY KING COUNTY PRIOR TO DREDGING

RM SHALL BE COMPACTED AST 95 PERCENT OF THE A RELATIVE DENSITY.

KING COUNTY DEPT. OF PUBLIC WORKS

SURFACE MATER MAINGENENT

LARA LAKE DREDGING



Record Center

King County Executive Randy Revelle

Department of Public Works Donald J. LaBelle, Director

1.28-83

January 26, 1983

Serial Letter No. 3

Marine Construction & Dredging, Inc. 1579 Dunbar Road Mt. Vernon, WA 98273

re: Lora Lake Dredging

Project 600680 (Contract C09420C)

This is in response to the meeting with you on January 17, 1983, regarding your claim on the above project.

We have reviewed the information which Mr. Roque submitted and the recalculations which we have done on quantities of material. As we discussed and generally agreed, the total quantity of material dredged is about 16,000 cubic yards. This is a combination of the 10,500 cubic yards from our cross sections and your 5,638 cubic yards figure for volumes dredged above the cross sections. This quantity corresponds with the volume estimated to be in the disposal pond.

Our records indicate the dredge worked 18 days, of which $2\frac{1}{2}$ days were in the inlet area. In your letter of December 13, 1982, you state your bid was based on 66 hours of dredging. The \$14,000 bid price for dredging divided by the 66 hours gives a rate of \$212/hour for dredging. Figuring the 16,000 cubic yards divided by the $15\frac{1}{2}$ days (124 hours) of dredging time, indicates an average rate of 130 cubic yards per hour. This rate appears to be reasonable considering the nature of the material being dredged.

The $15\frac{1}{2}$ days (124 hours) was 58 hours in excess of your original estimate for time to complete the work. Using the \$212 per hour rate for dredging from the original bid, the 58 hours of added time required to complete the project would translate into justification for \$12,296 additional compensation.

As discussed in our meeting, we assume this offer will satisfy your claim.



King County Executive Randy Revelle

FORBES/GROVER WHAT ARE OUR OBLIGA-TIONS HERE?

ARE YOU FAMILIER W/

Department of Public Works LORA LAKE COMMITMENT Donald J. LaBelle, Director October 7, 1983

TO:

Lou Haff, Maintenance Engineer

Larry Gible Surface Water Management

RE:

Lora Lakĕ

Wally Watson, spokesman for the Lora Lake Community Club, called Paul Hooper on September 30, 1983, because he believes King County still has a few items of work to do according to our agreement with the Lora Lake Community Club. When I talked to Wally Watson on October 3, he said the Community Club would be happy if the following items were completed:

- Some large rocks they claim are located a considerable distance away from the recently constructed rock weir in Lora Lake. He wants King County to move those rocks back onto the weir. I talked to Jerry Adair who managed the construction project and he was not aware of any rock located outside the rock weir and said that they have released the contractor.
- The silt presently behind the rock weir should be cleaned
- Construct another overflow weir adjacent to the existing bulkhead. I believe this is something two people from the Community Club could do by hand in one hour.
- 4. The berm King County constructed around the Lora Lake dredging spoil area should be breached or leveled. Some adjacent landowners are complaining because it looks bad. I think we should do this quickly because water could build up during the winter and possibly cause the berm to fail resulting in possible siltation of Miller Creek.
- Watson claims John Grover said King County would buildup a low bank on the east side of Lora Lake and correct the outlet pipe from the lake. He wants to know when this is going to be done.

Memo to Lou Haff October 7, 1983 Page Two

I talked to John about the above items. I told Wally Watson I would get back to him by October 27, which is the next scheduled Lora Lake Community Club meeting. Therefore, I would appreciate your comments by October 26, 1983.

LRG:bjs

cc: Paul Hooper Jerry Adair

APPENDIX B: AERIAL PHOTOGRAPHY











CHECKED BY:

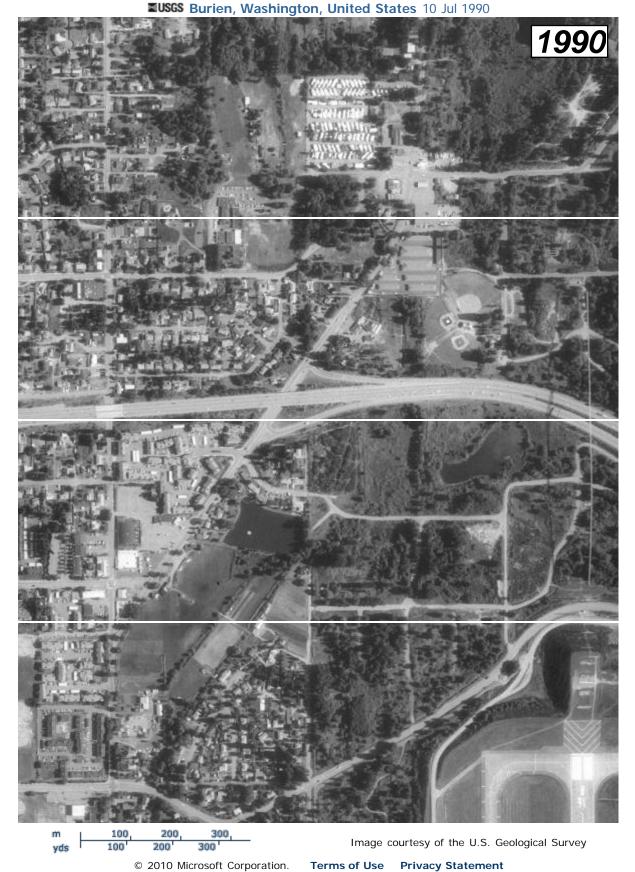
PORT OF SEATTLE NO.
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PLATE NO. 8

Steve Okamum



Send To Printer Back To MSR Maps Change to 11x17 Print Size Show Grid Lines Change to Landscape









Send To Printer Back To MSR Maps Change to 11x17 Print Size Show Grid Lines Change to Landscape



Internet Mapping Framework





Legend

PeopleSoft Asset Mgt

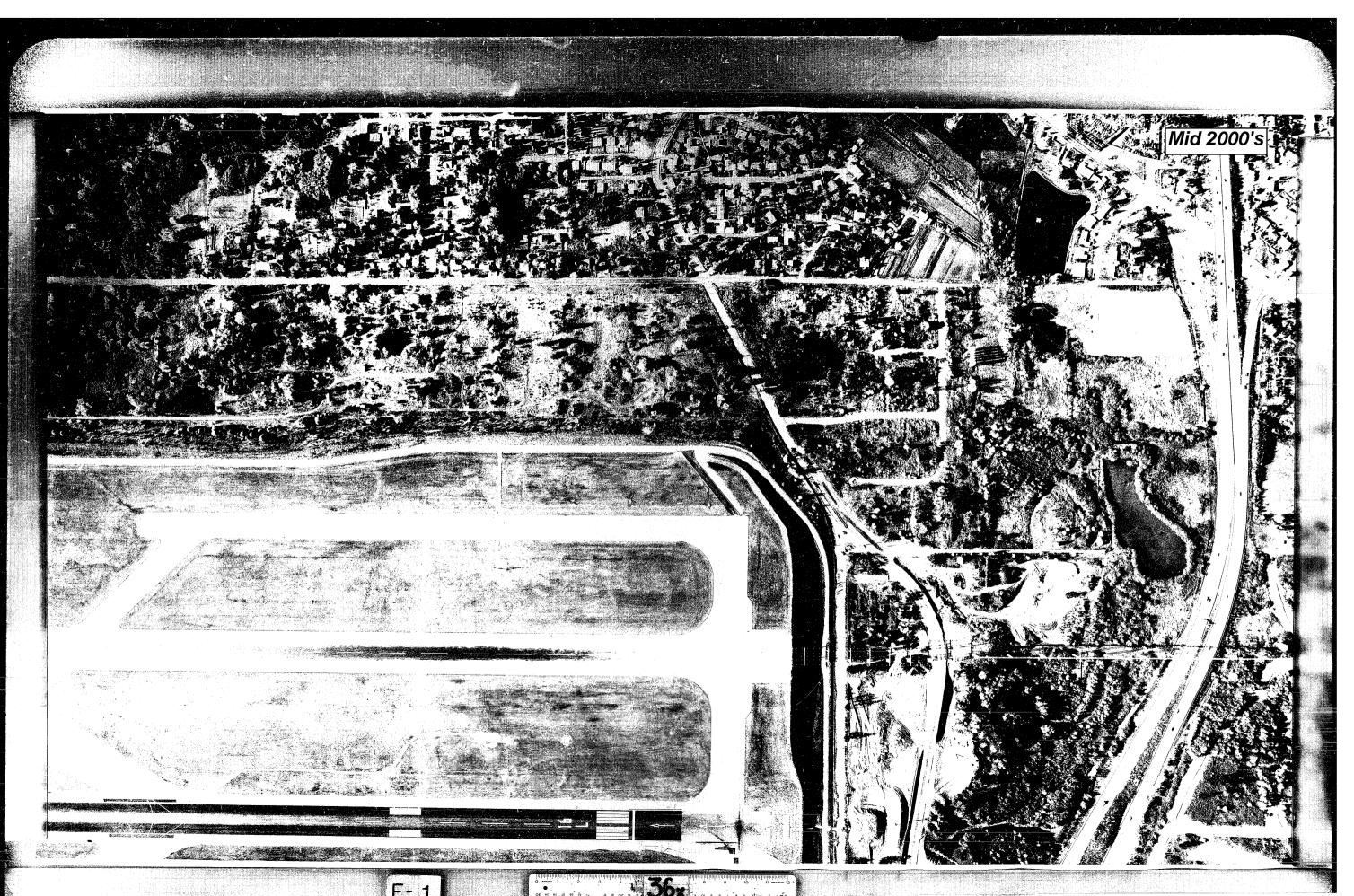
Cities

2003 S. King County 12-inch Color

Scale: 1:2,000

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

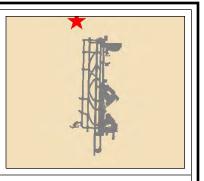






Internet Mapping Framework





Legend PeopleSoft Asset Mgt Cities 2010 6-inch Color

Scale: 1:2,000

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.