



230 E. Cuyahoga Falls Avenue ♦ Akron, Ohio 44310
(330) 535-6678 ♦ Fax (330) 784-7125

May 6, 2003

The City of Massillon
Attn: Steve Hamit, Engineer
151 Lincoln Way East
Massillon, Ohio 44646

Re: Color Television Inspection Services (for A. R. Lockhart Development Co.)
Kenyon Creek Development - 8" and 12" Sanitary Sewers

Dear Mr. Hamit:

On May 1, 2003, Northern Consulting cleaned and performed color television inspections on the sanitary sewers located in the Kenyon Creek Development. The video tape and related reports are enclosed.

The pipe inspected consisted of 8" and 12" plastic sanitary sewer in 12.5' laying lengths. Manholes were precast and had vented covers. Alignment and grade were good, and all joints appeared tight and even.

If you have any questions or need additional information regarding this inspection, please contact me at 330/213-8830 (pager).

Sincerely,



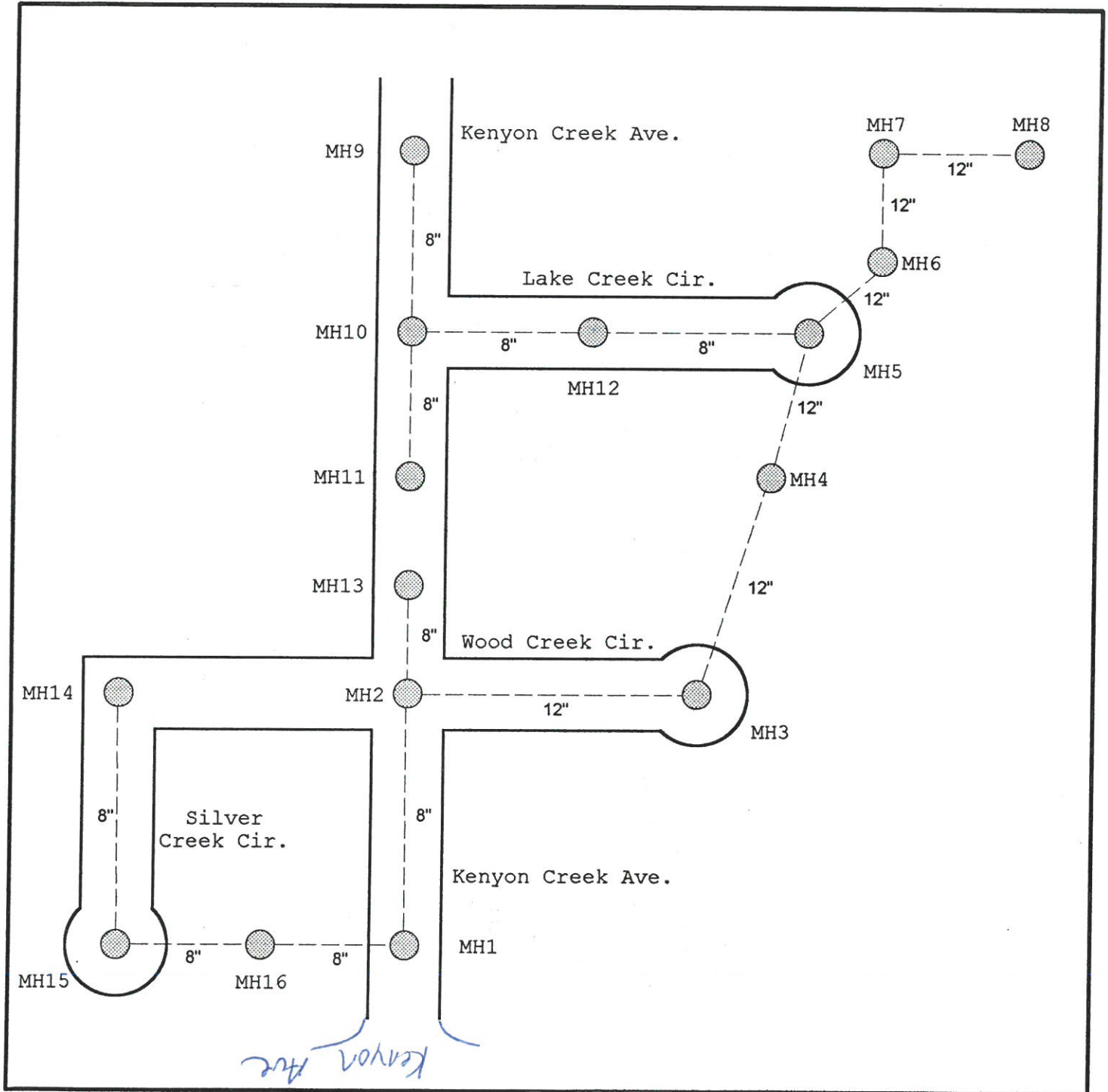
John R. Otterman

Enclosures

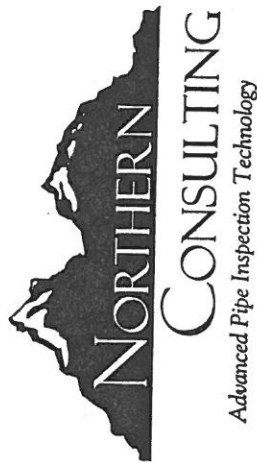
cc: A. R. Lockhart Development Co.

NORTHERN CONSULTING, INC.

for A. R. Lockhart Development Company
Kenyon Creek Development
Sanitary Sewers
Tape No. 03012



NOT TO SCALE



230 E. Cuyahoga Falls Avenue
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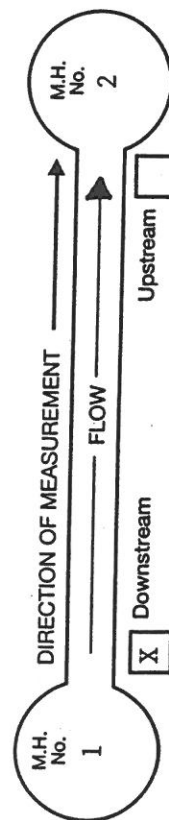
CLIENT A, R. LOCKHART DEVELOPMENT CO.
ADDRESS 800 WEST WATERLOO ROAD
AKRON, OHIO 44314
Job Location KENYON CREEK DEVELOPMENT
Street KENYON CREEK AVENUE
Begin M.H. No. 1 To M.H. No. 2
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 12 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 1
052.0'	SERVICE CONNECTION (RIGHT)
092.0'	SERVICE CONNECTION (LEFT)
120.0'	SERVICE CONNECTION (RIGHT)
171.0'	SERVICE CONNECTION (LEFT)
226.0'	MANHOLE NO. 2
226.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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Advanced Pipe Inspection Technology

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CLIENT A. R. LOCKHART DEVELOPMENT CO.
ADDRESS 800 WEST WATERLOO ROAD
AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street WOOD CREEK CIRCLE

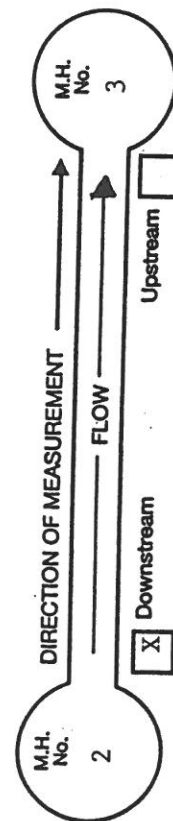
Begin M.H. No. 2 To M.H. No. 3
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 12 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 2
053.0	SERVICE CONNECTION (RIGHT)
133.0'	SERVICE CONNECTION (RIGHT)
161.0'	SERVICE CONNECTION (LEFT)
181.0'	SERVICE CONNECTION (RIGHT)
190.0'	MANHOLE NO. 3
190.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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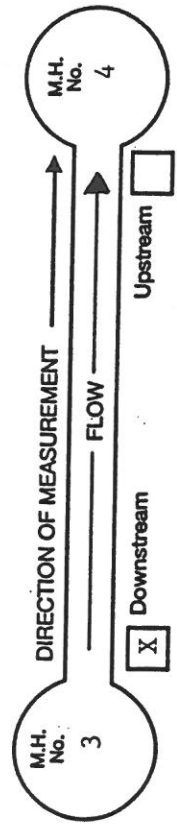
CLIENT A. R. LOCKHART DEVELOPMENT CO.
ADDRESS 800 WEST WATERLOO ROAD
AKRON, OHIO 44314
Job Location KENYON CREEK DEVELOPMENT
Street WOOD CREEK R/W EASEMENT
Begin M.H. No. 3 To M.H. No. 4
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

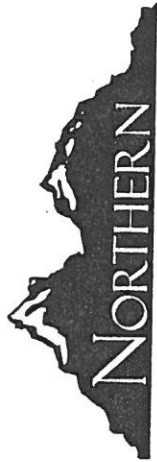
Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 12 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 3
026.0'	SERVICE CONNECTION (RIGHT)
092.0'	SERVICE CONNECTION (LEFT)
183.0'	MANHOLE NO. 4
183.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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CLIENT A. R. LOCKHART DEVELOPMENT CO.

ADDRESS 800 WEST WATERLOO ROAD

AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT

Street WOOD CREEK CIRCLE R/W EASEMENT

Begin M.H. No. 4 To M.H. No. 5

Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

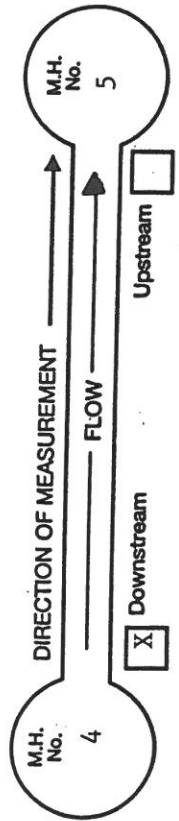
Length of Pipe 12.5 FT

Type of Pipe PLASTIC SANITARY SEWER

Line Size 12 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 4
046.0'	SERVICE CONNECTION (RIGHT)
059.0'	SERVICE CONNECTION (LEFT)
113.0'	MANHOLE NO. 5
113.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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CLIENT A, R. LOCKHART DEVELOPMENT CO.
ADDRESS 800 WEST WATERLOO ROAD
AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street LAKE CREEK CIRCLE

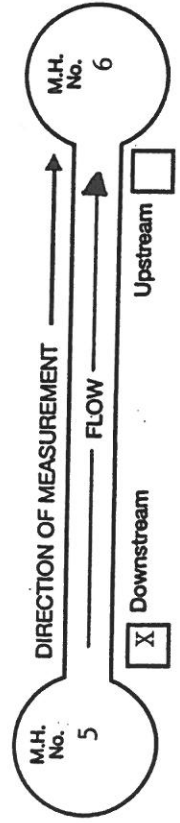
Begin M.H. No. 5 To M.H. No. 6
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 12 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 5
083.0'	SERVICE CONNECTION (LEFT)
090.0'	SERVICE CONNECTION (RIGHT)
106.0'	MANHOLE NO. 6
106.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street LAKE CREEK R/W EASEMENT

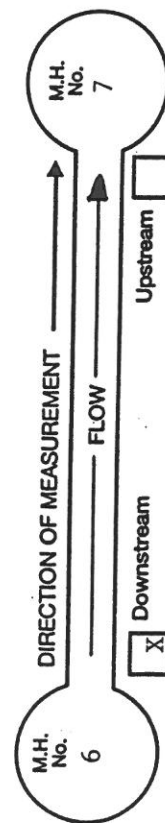
Begin M.H. No. 6 To M.H. No. 7
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

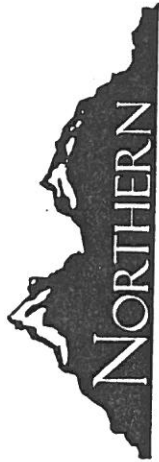
Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 12 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 6
030.0'	SERVICE CONNECTION (RIGHT)
070.0'	SERVICE CONNECTION (LEFT)
165.0'	MANHOLE NO. 7
165.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street LAKE CREEK R/W EASEMENT

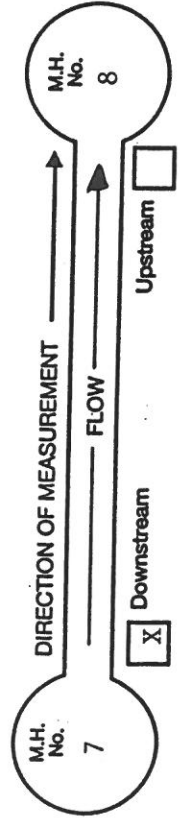
Begin M.H. No. 7 To M.H. No. 8
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

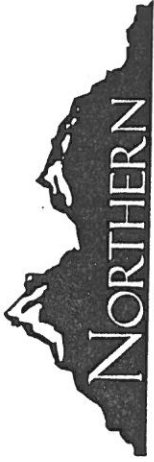
Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 12 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 7
126.0'	MANHOLE NO. 8
126.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street SILVER CREEK CIRCLE

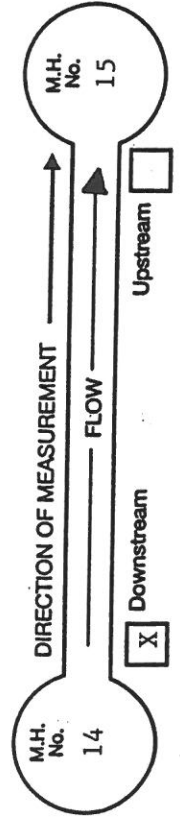
Begin M.H. No. 14 To M.H. No. 15
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 8 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 14
084.0'	SERVICE CONNECTION (RIGHT)
089.0'	SERVICE CONNECTION (LEFT)
135.0'	SERVICE CONNECTION (RIGHT)
168.0'	SERVICE CONNECTION (LEFT)
202.0'	SERVICE CONNECTION (RIGHT)
242.0'	SERVICE CONNECTION (LEFT)
269.0'	SERVICE CONNECTION (RIGHT)
326.0'	SERVICE CONNECTION (RIGHT)
333.0'	MANHOLE NO. 15
333.0'	Total Footage

Distance Reading	DESCRIPTION
	MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.
	Total Footage



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street SILVER CREEK R/W EASEMENT

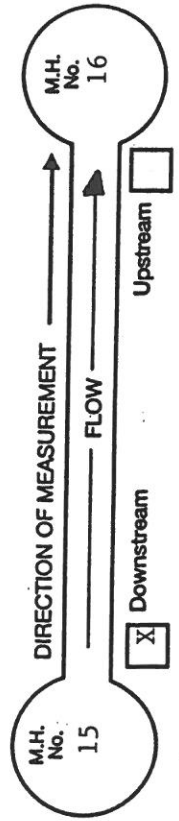
Begin M.H. No. 15 To M.H. No. 16
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 8 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 15
008.0'	SERVICE CONNECTION (RIGHT)
088.0'	SERVICE CONNECTION (RIGHT)
095.0'	SERVICE CONNECTION (LEFT)
168.0'	MANHOLE NO. 16
168.0'	Total Footage

Distance Reading	DESCRIPTION
	MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.
	Total Footage



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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CLIENT A. R. LOCKHART DEVELOPMENT CO.
ADDRESS 800 WEST WATERLOO ROAD
AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street SILVER CREEK R/W EASEMENT

Begin M.H. No. 16 To M.H. No. 1
Video Tape No. 03012

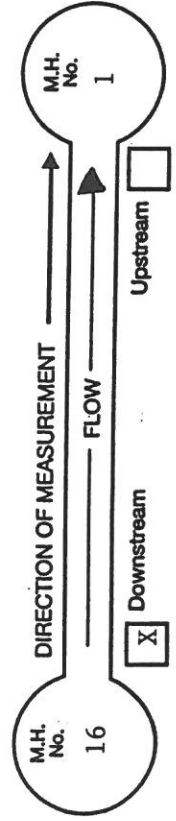
OPERATION
JOB NO.
DATE

CLEANING & COLOR TELEVISION INSPECTION SERVICES
03012
MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 8 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 16
065.0'	SERVICE CONNECTION (RIGHT)
069.0'	SERVICE CONNECTION (LEFT)
173.0'	MANHOLE NO. 1
173.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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ADDRESS 800 WEST WATERLOO ROAD
AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street KENYON CREEK AVENUE

Begin M.H. No. 10 To M.H. No. 11

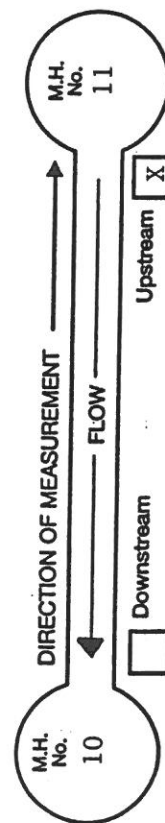
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 8 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 10
014.0'	SERVICE CONNECTION (RIGHT)
049.0'	MANHOLE NO. 11
049.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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ADDRESS 800 WEST WATERLOO ROAD
AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street KENYON CREEK AVENUE

Begin M.H. No. 10 To M.H. No. 9

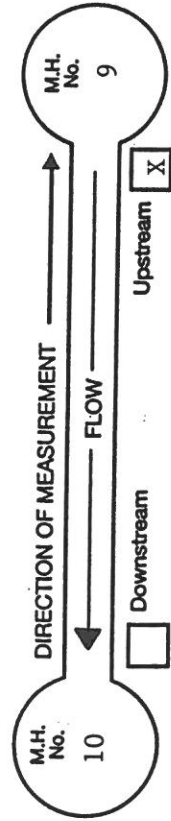
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 8 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 10
052.0'	SERVICE CONNECTION (LEFT)
115.0'	SERVICE CONNECTION (LEFT)
149.0'	SERVICE CONNECTION (RIGHT)
173.0'	SERVICE CONNECTION (LEFT)
212.0'	MANHOLE NO. 9
212.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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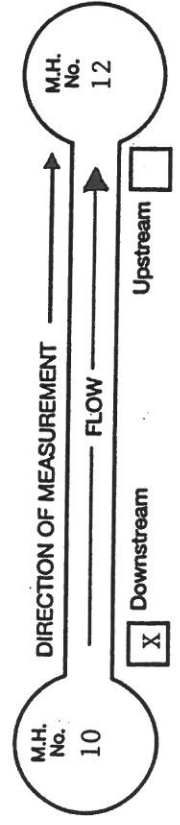
CLIENT A. R. LOCKHART DEVELOPMENT CO.
ADDRESS 800 WEST WATERLOO ROAD
AKRON, OHIO 44314
Job Location KENYON CREEK DEVELOPMENT
Street LAKE CREEK CIRCLE
Begin M.H. No. 10 To M.H. No. 12
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 8 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 10
049.0'	SERVICE CONNECTION (RIGHT)
071.0'	SERVICE CONNECTION (LEFT)
113.0'	SERVICE CONNECTION (RIGHT)
140.0'	SERVICE CONNECTION (LEFT)
176.0'	SERVICE CONNECTION (RIGHT)
203.0'	SERVICE CONNECTION (LEFT)
230.0'	MANHOLE NO. 12
230.0'	Total Footage

Distance Reading	DESCRIPTION
	MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.
	Total Footage



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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CLIENT A. R. LOCKHART DEVELOPMENT CO.
ADDRESS 800 WEST WATERLOO ROAD
AKRON, OHIO 44314

Job Location KENYON CREEK DEVELOPMENT
Street LAKE CREEK CIRCLE

Begin M.H. No. 12 To M.H. No. 5
Video Tape No. 03012

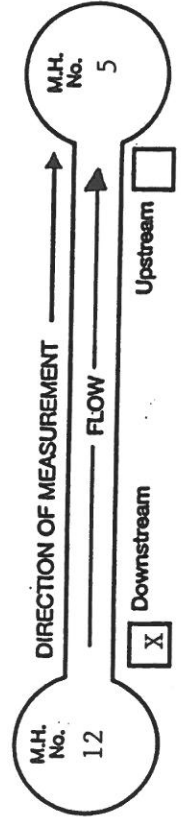
OPERATION
JOB NO.
DATE

CLEANING & COLOR TELEVISION INSPECTION SERVICES
03012
MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 8 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 12
024.0'	SERVICE CONNECTION (LEFT)
060.0'	MANHOLE NO. 5
060.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth:



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Job Location KENYON CREEK DEVELOPMENT
Street KENYON CREEK AVENUE

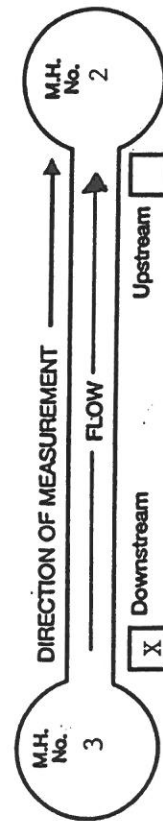
Begin M.H. No. 3 To M.H. No. 2
Video Tape No. 03012

OPERATION CLEANING & COLOR TELEVISION INSPECTION SERVICES
JOB NO. 03012
DATE MAY 1, 2003

Length of Pipe 12.5 FT
Type of Pipe PLASTIC SANITARY SEWER
Line Size 8 IN

Distance Reading	DESCRIPTION
000.0'	MANHOLE NO. 3
080.0'	SERVICE CONNECTION (LEFT)
083.0'	SERVICE CONNECTION (RIGHT)
175.0'	SERVICE CONNECTION (RIGHT)
190.0'	MANHOLE NO. 2
190.0' Total Footage	

Distance Reading	DESCRIPTION
MANHOLES ARE PRECAST AND HAVE VENTED COVERS. THE STEPS ARE GOOD. ALIGNMENT AND GRADE ARE GOOD AND ALL JOINTS APPEAR TIGHT AND EVEN.	
Total Footage	



Line and Grade: GOOD
Cleanliness of Line: GOOD
Manhole Conditions: GOOD
Manhole Depth: