



ALPHA PARK, CHANDLER'S FORD, EASTLEIGH

THE BUILDING MANUAL
(incorporating the Health & Safety File)

DRAINAGE SURVEY

Subcontractor Details

Company: Pipeview LLP
147 Cove Road
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GU14 0HQ

Tel: 01252 663 057

$\Sigma \emptyset$ / Main sections

Project name C3414, Alpha Park, Chandlers Ford,	Project number PV041452	Contact	Date 11/11/2016
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Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
1	CABIN MH1	CABIN MH2	11/11/2016	Chandlers Ford		Vitrified clay	18.07	18.07

Pipe size: CIRCULAR 100/100 = 18.07 m (18.07 m)

Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
2	CABIN MH2	CABIN MH3	11/11/2016	Chandlers Ford		Vitrified clay	16.56	16.56
3	EXIST FW1	DOWNSTREAM	11/11/2016	Chandlers Ford		Vitrified clay	57.54	57.54

Pipe size: CIRCULAR 150/150 = 74.1 m (74.1 m)

All sections = 92.17 m (92.17 m)

Service / Operational Defects (SRM 4)

Project name : C3414, Alpha Park, Chandlers Ford,	Project Number : PV041452	Contact :	Date : 11/11/2016
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No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	CABIN MH1X	U	F	C 100/100	11/11/2016	VC	18.07	18.07	3	2	3	1.99	36
2	CABIN MH2X	D	F	C 150/150	11/11/2016	VC	16.56	16.56	3	7	4	3.57	59.1
3	EXIST FW1X	D	F	C 150/150	11/11/2016	VC	57.54	57.54	-	0	1	0	0

Structural Defects (SRM 4)

Project name :	Project Number :	Contact :	Date :
C3414, Alpha Park, Chandlers Ford,	PV041452		11/11/2016

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	CABIN MH1X	U	F	C 100/100	11/11/2016	VC	18.07	18.07	2	10	2	0.55	10
2	CABIN MH2X	D	F	C 150/150	11/11/2016	VC	16.56	16.56	-	0	1	0	0
3	EXIST FW1X	D	F	C 150/150	11/11/2016	VC	57.54	57.54	-	0	1	0	0

Project-information

Project name : C3414, Alpha Park, Chandlers Ford,	Project Number : PV041452	Contact :	Date : 11/11/2016
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Defect Grade Description

Project Name :	Project number :	Contact :	Date :
C3414, Alpha Park, Chandlers Ford,	PV041452		11/11/2016

1:

Brick: No Structural Defects
Pipe: No Structural Defects

Acceptable Structural Condition

2:

Brick: Minor cracking, Surface mortar loss, Spalling slight, wear slight
Pipe: Circumfrential crack, Moderate joint defects, Spalling slight, Wear slight

Minor collapse risk in short term but potential for further deterioration

3:

Brick: Total mortarloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium
Pipe: Fractures with deformation up tp 5%, Longitudinal cracking or mulitple cracking, Minor loss of level, More severe joint

! Collapse unlikely in near future but future deterioration likely !

4:

Brick: Total mortarloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks
Pipe: Broken, Deformation up to 10% and broken,, Fractured with deformation 5 - 10%, Multipl

!! Collapse likely in foreseeable future !!

5:

Brick: Already Collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks
Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missin

!!! Collapsed or collapse imminent !!!

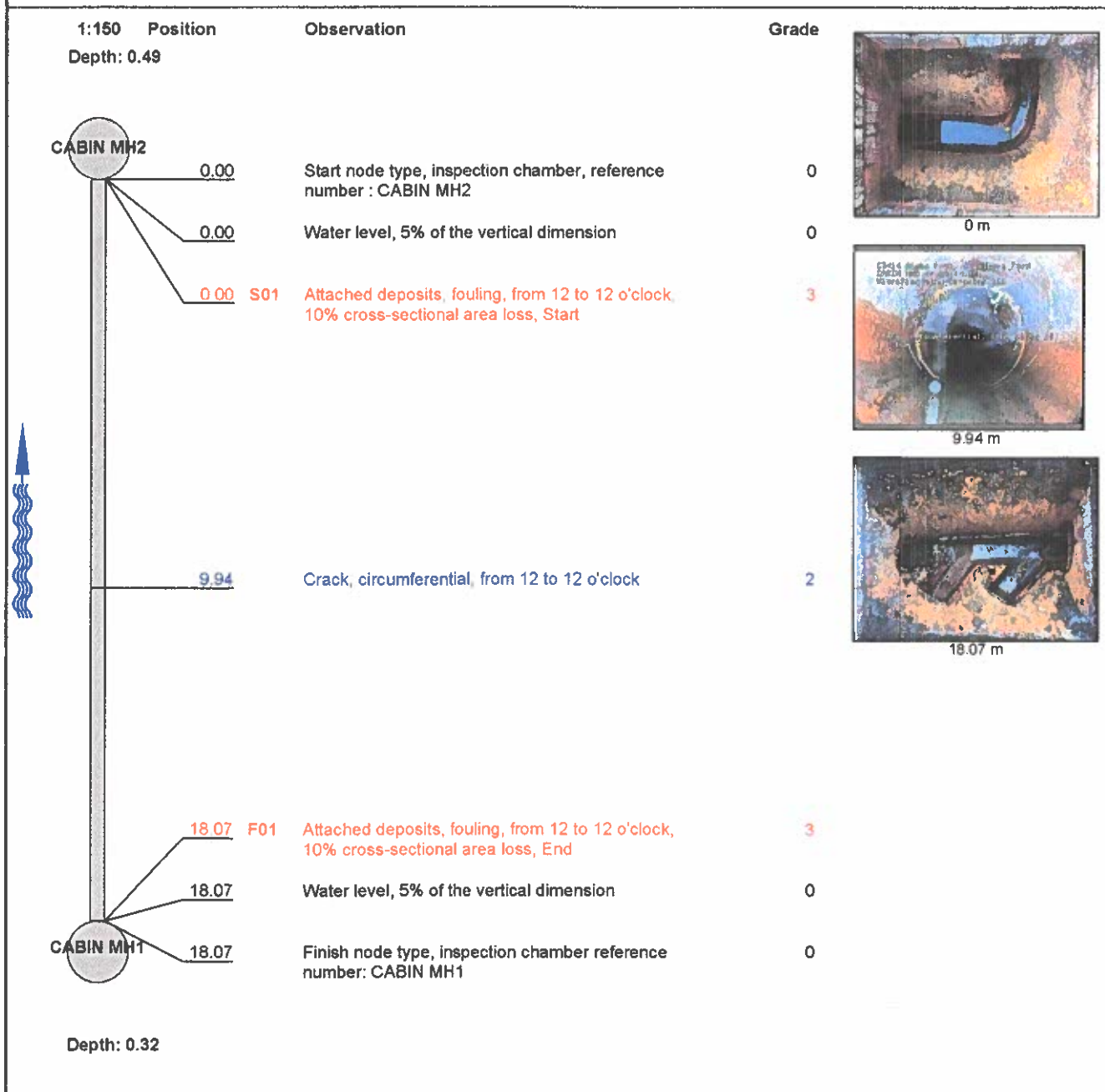
Inspection report

Date : 11/11/2016	Job number : PV041452	Section Type :	Operator : RYAN WOODS	Section number : 1	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO06 CAM	Camera :	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	C3414 Alpha Park, Chandlers Ford Property with buildings CABIN MH2 (U/S) CABIN MH1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	CABIN MH1 0.32 CABIN MH2 0.49
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Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 18.07 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Vitrified clay
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Comment :



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	0.56	10	2	1	2	1.99	36	3

Inspection pictures

Place : C3414 Alpha Park,	Road : Chandlers Ford	Date : 11/11/2016	Section number : 1	PLR Suffix : X
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Photo: CABIN MH 2.JPG

0m, Start node type, inspection chamber, reference number : CABIN MH2

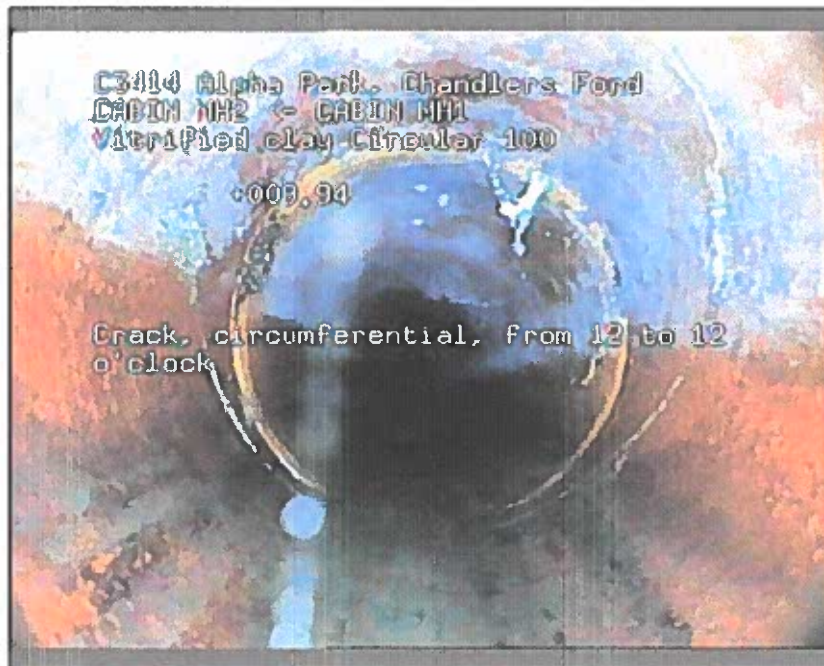


Photo: 1_1_5_A.JPG

9.94m, Crack, circumferential, from 12 to 12 o'clock

Inspection pictures

Place : C3414 Alpha Park,	Road : Chandlers Ford	Date : 11/11/2016	Section number : 1	PLR Suffix : X
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Photo: CABIN MH 1.JPG
18.07m, Finish node type, inspection chamber reference number: CABIN MH1

Inspection report

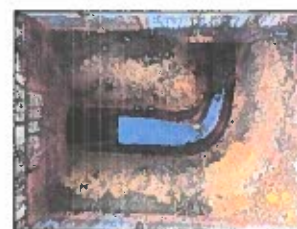
Date : 11/11/2016	Job number : PV041452	Section Type :	Operator : RYAN WOODS	Section number : 2	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 CAM	Camera :	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place : C3414 Alpha Park,	Location details:	U/S MH : CABIN MH2
Road : Chandlers Ford	Catchment :	U/S Depth : 0.49
Location : Property with buildings	Pipe Shape : Circular	D/S MH : CABIN MH3
Inspection : CABIN MH2 (D/S) CABIN MH3	Pipe Length :	D/S Depth : 0.88

Use : Foul	Pipe Width : 160 mm
Year laid :	Pipe Diameter : 160 mm
Purpose : Sample survey to determine asset condition	Pipe material : Vitrified clay
Total length : 16.56 m	Lining :

Comment :

1:135 Position Depth: 0.49	Observation	Grade
CABIN MH2		
0.00	Start node type, inspection chamber, reference number : CABIN MH2	0
0.00	Water level, 5% of the vertical dimension	0
0.00 S01	Attached deposits, fouling, from 12 to 12 o'clock, 5% cross-sectional area loss, Start	3
7.88 F01	Attached deposits, fouling, from 12 to 12 o'clock, 5% cross-sectional area loss, End	3
7.88 S02	Attached deposits, fouling, from 4 to 8 o'clock, 20% cross-sectional area loss, Start	4
7.88 S03	Loss of vision, camera under water, Start Remarks: WATER HOLDING 35% DUE TO FOULING	0
8.83 F03	Loss of vision, camera under water, End Remarks: WATER HOLDING 35% DUE TO FOULING	0
16.56 F02	Attached deposits, fouling, from 4 to 8 o'clock, 20% cross-sectional area loss, End	4
16.56	Water level, 20% of the vertical dimension	0
16.56	Finish node type, inspection chamber reference number: CABIN MH3	0
CABIN MH3		
Depth: 0.88		



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	2	7	3.67	68.1	4

Inspection pictures

Place : C3414 Alpha Park,	Road : Chandlers Ford	Date : 11/11/2016	Section number : 2	PLR Suffix : X
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Photo: CABIN MH 2.JPG

0m, Start node type, inspection chamber, reference number : CABIN MH2



Photo: CABIN MH 3.JPG

16.56m, Finish node type, inspection chamber reference number: CABIN MH3

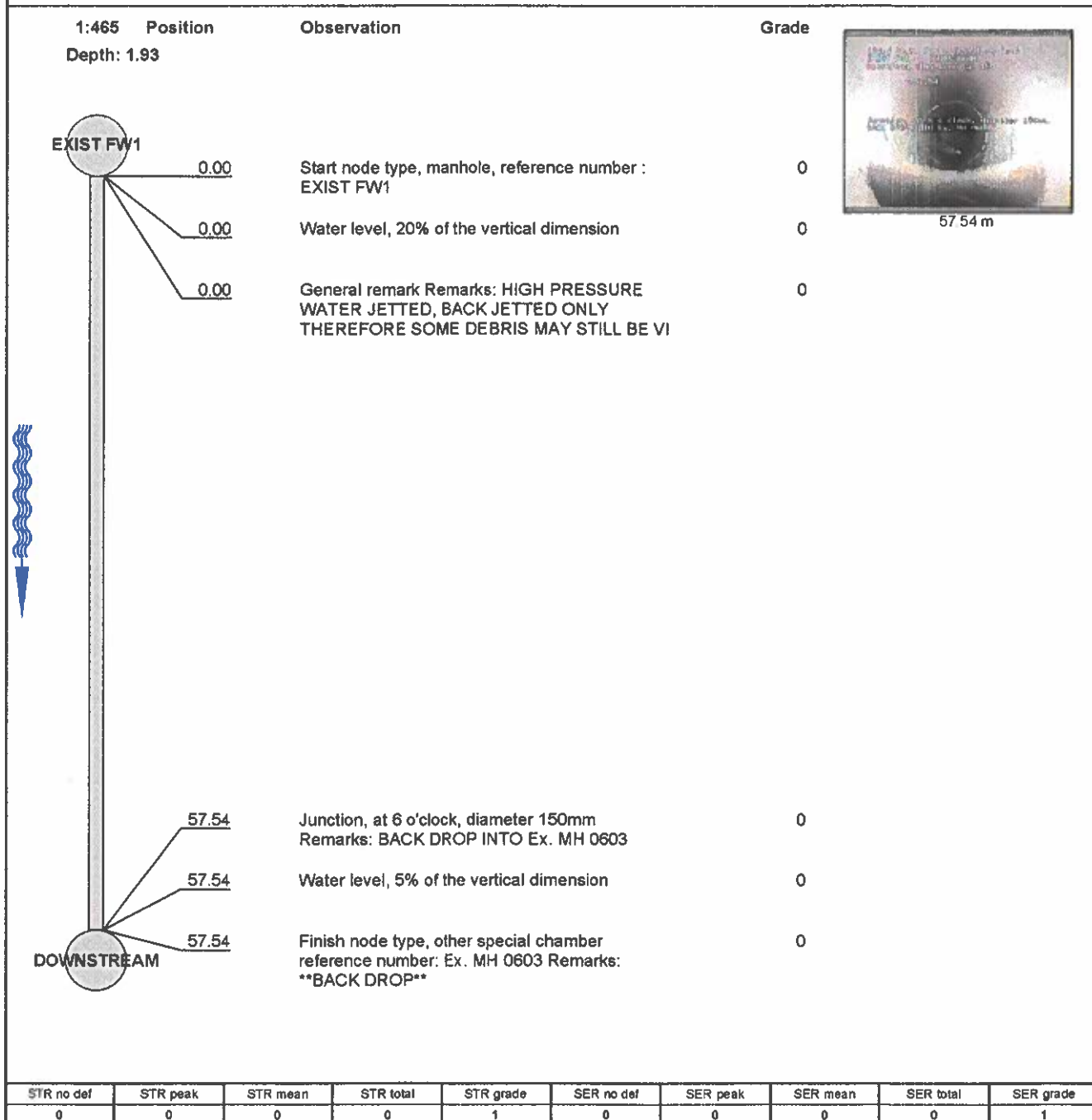
Inspection report

Date : 11/11/2016	Job number : PV041452	Section Type :	Operator : RYAN WOODS	Section number : 3	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 CAM	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	C3414 Alpha Park, Chandlers Ford Property with buildings EXIST FW1 (D/S)	Location details: Catchment: Pipe Shape : Pipe Length	Circular Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	EXIST FW1 1.93 DOWNSTREAM
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Use: Year laid : Purpose : Total length :	DOWNSTREAM Foul Sample survey to determine asset condition 57.54 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay
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Comment :



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : C3414 Alpha Park,	Road : Chandlers Ford	Date : 11/11/2016	Section number : 3	PLR Suffix : X
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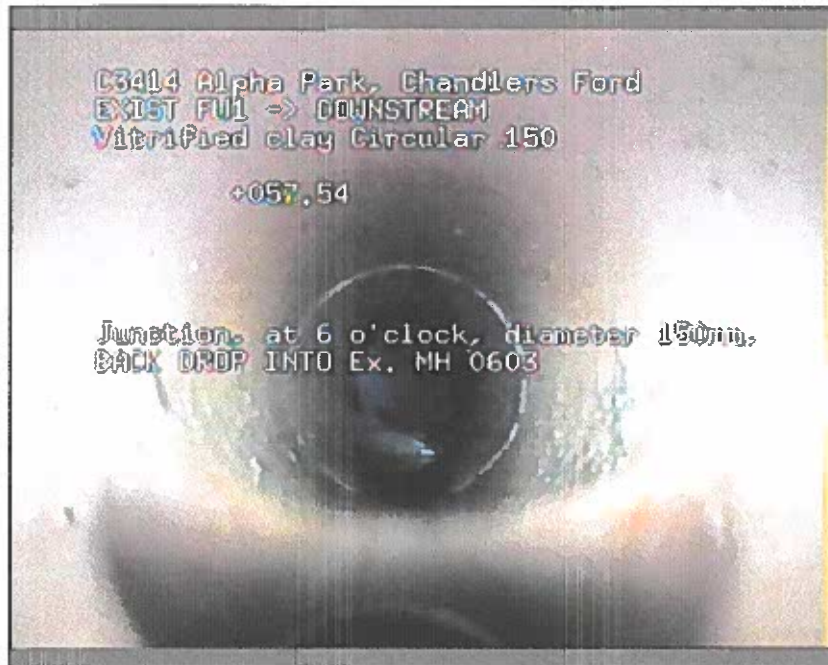


Photo: 4_4_25_A.JPG
57.54m, Junction, at 6 o'clock, diameter 150mm

$\Sigma \emptyset$ / Main sections

Project name : C3414, Alpha Park, Combined Main	Project number : PV041489	Contact :	Date : 08/12/2016
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Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
1	EXMH 7505	EXMH 7505A	06/12/2016	Chandlers Ford		Concrete	39.85	39.85
2	EXMH 7505A	EX MH7505B	06/12/2016	Chandlers Ford		Concrete	36.04	36.04
3	EXMH 7505B	EXMH 8501	06/12/2016	Chandlers Ford		Concrete	45.55	45.55
4	EXMH 8501	EXMH 8501A	06/12/2016	Chandlers Ford		Concrete	94.84	94.84
5	EXMH 8501A	EXMH 0604	06/12/2016	Chandlers Ford		Concrete	85.03	85.03
6	EXMH 0604	EXMH 0603	06/12/2016	Chandlers Ford		Concrete	29.74	29.74

Pipe size: CIRCULAR 375/375 = 331.05 m (331.05 m)

All sections = 331.05 m (331.05 m)

Service / Operational Defects (SRM 4)

Project name :	Project Number :	Contact :	Date :
C3414, Alpha Park, Combined Main	PV041489		08/12/2016

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	EXMH 7505X	U	C	C 375/375	06/12/2016	CO	39.85	39.85	-	0	1	0	0
2	EXMH 7505AX	D	C	C 375/375	06/12/2016	CO	36.04	36.04	3	5	4	0.14	5
3	EXMH 7505BX	D	C	C 375/375	06/12/2016	CO	45.55	45.55	-	0	1	0	0
4	EXMH 8501X	D	C	C 375/375	06/12/2016	CO	94.84	94.84	-	0	1	0	0
5	EXMH 8501AX	D	C	C 375/375	06/12/2016	CO	85.03	85.03	2	0	1	0	0
6	EXMH 0604X	D	C	C 375/375	06/12/2016	CO	29.74	29.74	-	0	1	0	0

Structural Defects (SRM 4)

Project name :	Project Number :	Contact :	Date :
C3414, Alpha Park, Combined Main	PV041489		06/12/2016

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	EXMH 7505X	U	C	C 375/375	06/12/2016	CO	39.85	39.85	-	0	1	0	0
2	EXMH 7505AX	D	C	C 375/375	06/12/2016	CO	36.04	36.04	-	0	1	0	0
3	EXMH 7505BX	D	C	C 375/375	06/12/2016	CO	45.55	45.55	-	0	1	0	0
4	EXMH 8501X	D	C	C 375/375	06/12/2016	CO	94.84	94.84	-	0	1	0	0
5	EXMH 8501AX	D	C	C 375/375	06/12/2016	CO	85.03	85.03	-	0	1	0	0
6	EXMH 0604X	D	C	C 375/375	06/12/2016	CO	29.74	29.74	-	0	1	0	0

Project-information

Project name : C3414, Alpha Park, Combined Main	Project Number : PV041489	Contact :	Date : 08/12/2016
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Client:
Contact Name:
Department:
Road:
Town:
County:
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Fax:
Mobile:
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Krzysztof

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Krzysztof
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Contractor
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Road:
Town:
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Defect Grade Description

Project Name :	Project number :	Contact :	Date :
C3414, Alpha Park, Combined Main	PV041468		08/12/2016
<u>1:</u> Brick: No Structural Defects Pipe: No Structural Defects Acceptable Structural Condition			
<u>2:</u> Brick: Minor cracking, Surface mortar loss, Spalling slight, wear slight Pipe: Circumfrential crack, Moderate joint defects, Spalling slight, Wear slight Minor collapse risk in short term but potential for further deterioration			
<u>3:</u> Brick: Total mortarloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium Pipe: Fractures with deformation up tp 5%, Longitudinal cracking or mulitple cracking, Minor loss of level, More severe joint ! Collapse unlikely in near future but future deterioration likely !			
<u>4:</u> Brick: Total mortarloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks Pipe: Broken, Deformation up to 10% and broken,, Fractured with deformation 5 - 10%, Multipl !! Collapse likely in foreseeable future !!			
<u>5:</u> Brick: Already Collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missin !!! Collapsed or collapse imminent !!!			

Inspection report

Date : 08/12/2016	Job number : PV041469	Section Type :	Operator : RYAN WOODS	Section number : 1	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO06 MUD	Camera :	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place : C3414, Alpha Park,	Location details:	U/S MH : EXMH 7505
Road : Chandlers Ford	Catchment:	U/S Depth : EXMH 7505A
Location Woodland	Pipe Shape : Circular	D/S MH : EXMH 7505A
Inspection EXMH 7505A (U/S) EXMH 7505	Pipe Length	D/S Depth :

Use: Combined	Pipe Width : 375 mm
Year laid :	Pipe Diameter : 375 mm
Purpose : Sample survey to determine asset condition	Pipe material : Concrete
Total length : 39.85 m	Lining :

Comment :

1:315 Position

Observation

Grade

EXMH 7505A

0.00

Start node type, manhole, reference number :
EXMH 7505A

0

0.00

Water level, 35% of the vertical dimension

0

0.26

Line deviates left

0



39.85 m

39.85

Water level, 50% of the vertical dimension
Remarks: MAJOR LIVE CONNECTION TO
RIGHT HAND SIDE

0

39.85

Finish node type, manhole reference number:
EXMH 7505

0

EXMH 7505

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : C3414, Alpha Park,	Road : Chandlers Ford	Date : 06/12/2016	Section number : 1	PLR Suffix : X
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Photo: 1_1_5_A.JPG
39.85m, Water level, 50% of the vertical dimension

Inspection report

Date : 06/12/2016	Job number : PV041469	Section Type :	Operator : RYAN WOODS	Section number : 2	PLR SUFFIX : X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place :	C3414, Alpha Park,	Location details:	U/S MH :	EXMH 7505A
Road :	Chandlers Ford	Catchment:	U/S Depth :	
Location :	Woodland	Pipe Shape :	D/S MH :	EX MH7505B
Inspection :	EXMH 7605A (D/S) EX	Pipe Length:	D/S Depth :	

Use:	Combined	Pipe Width :	375 mm
Year laid :		Pipe Diameter :	375 mm
Purpose :	Sample survey to determine asset condition	Pipe material :	Concrete
Total length :	36.04 m	Lining :	

Comment

1:285	Position	Observation	Grade
	0.00	Start node type, manhole, reference number : EXMH 7505A	0
	0.00	Water level, 25% of the vertical dimension	0
	0.11	Line deviates right	0
	34.99	Attached deposits, fouling, from 9 to 3 o'clock, 25% cross-sectional area loss Remarks: SCALE	4
	36.04	Water level, 35% of the vertical dimension	0
	36.04	Finish node type, manhole reference number: EX MH7505B Remarks: BURIED, UNABLE TO LOCATE	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	5	0.14	5	4

Inspection report

Date : 08/12/2016	Job number : PV041469	Section Type :	Operator : RYAN WOODS	Section number : 3	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO06 MUD	Camera :	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place : Road : Location : Inspection :	C3414, Alpha Park, Chandlers Ford Woodland EXMH 7505B (D/S) EXMH 8501	Location details: Catchment : Pipe Shape : Pipe Length :	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	EXMH 7505B EXMH 8501
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Use : Year laid : Purpose : Total length :	Combined Sample survey to determine asset condition 45.55 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	375 mm 375 mm Concrete
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Comment :

1:360	Position	Observation	Grade
	0.00	Start node type, manhole, reference number : EXMH 7505B	0
	0.00	Water level, 35% of the vertical dimension	0
	45.55	Water level, 25% of the vertical dimension	0
	45.55	Finish node type, manhole reference number: EXMH 8501	0



45.55 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : C3414, Alpha Park,	Road : Chandlers Ford	Date : 06/12/2016	Section number : 3	PLR Suffix : X
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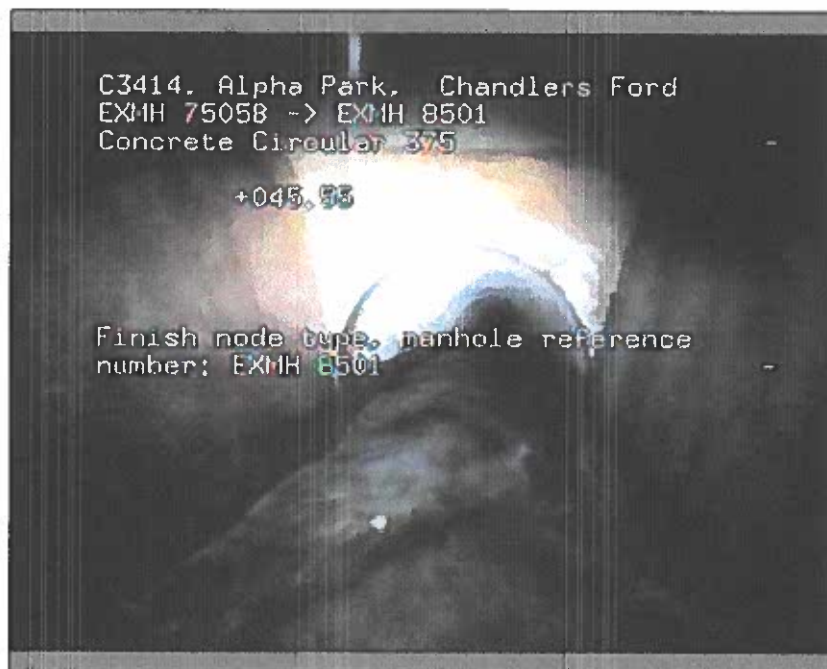
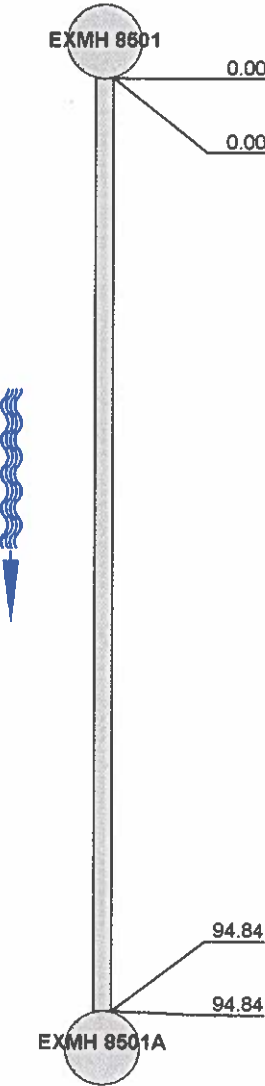


Photo: 4_4_16_A.JPG
45.55m, Finish node type, manhole reference number: EXMH 8501

Comment

1:750	Position	Observation	Grade																				
	0.00	Start node type, manhole, reference number : EXMH 8501	0																				
	0.00	Water level, 25% of the vertical dimension	0																				
	94.84	Water level, 25% of the vertical dimension	0																				
	94.84	Finish node type, manhole reference number: EXMH 8501A	0																				
<table><tr><th>STR no def</th><th>STR peak</th><th>STR mean</th><th>STR total</th><th>STR grade</th><th>SER no def</th><th>SER peak</th><th>SER mean</th><th>SER total</th><th>SER grade</th></tr><tr><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td></tr></table>				STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade	0	0	0	0	1	0	0	0	0	1
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade														
0	0	0	0	1	0	0	0	0	1														

Inspection report

Date : 06/12/2016	Job number : PV041469	Section Type :	Operator : RYAN WOODS	Section number : 5	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO06 MUD	Camera :	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place : C3414, Alpha Park,	Location details:	U/S MH : EXMH 8501A
Road : Chandlers Ford	Catchment:	U/S Depth :
Location Woodland	Pipe Shape : Circular	D/S MH : EXMH 0604
Inspection EXMH 8501A (D/S) EXMH 0604	Pipe Length	D/S Depth :

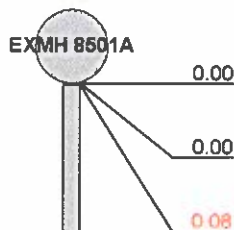
Use : Combined	Pipe Width : 375 mm
Year laid :	Pipe Diameter : 375 mm
Purpose : Sample survey to determine asset condition	Pipe material : Concrete
Total length : 85.03 m	Lining :

Comment :

1:675 Position

Observation

Grade



Start node type, manhole, reference number :
EXMH 8501A

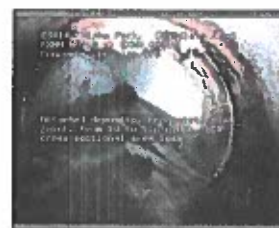
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Water level, 25% of the vertical dimension

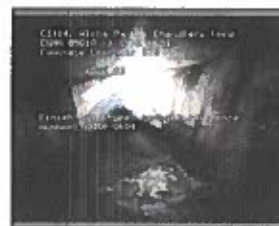
0

Attached deposits, encrustation at joint, from 10 to 1 o'clock, 10% cross-sectional area loss

3



0.08 m



85.03 m

Water level, 25% of the vertical dimension

0

Finish node type, manhole reference number:
EXMH 0604

0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : C3414, Alpha Park,	Road : Chandlers Ford	Date : 06/12/2016	Section number : 5	PLR Suffix : X
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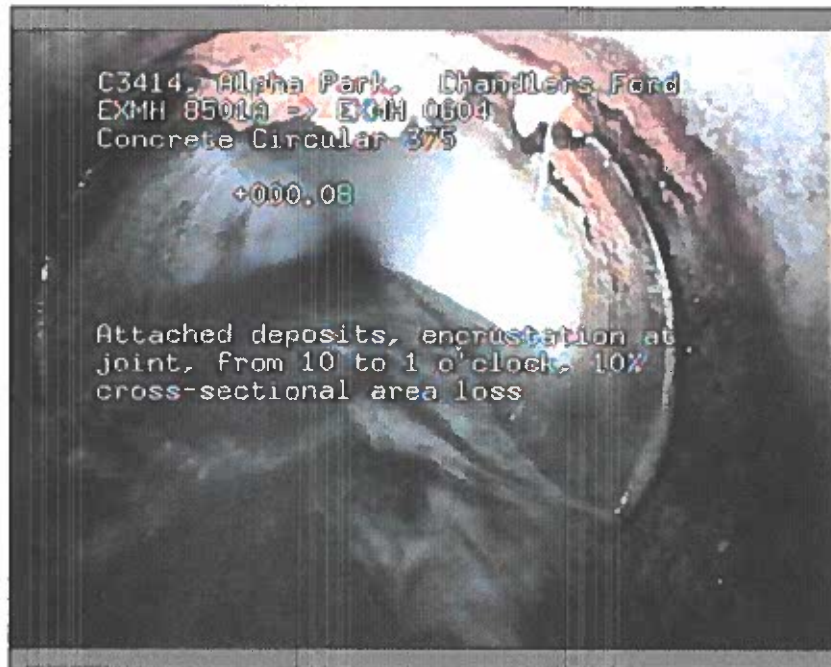


Photo: 6_6_23_A.JPG

0.08m. Attached deposits, encrustation at joint, from 10 to 1 o'clock, 10% cross-sectional area loss

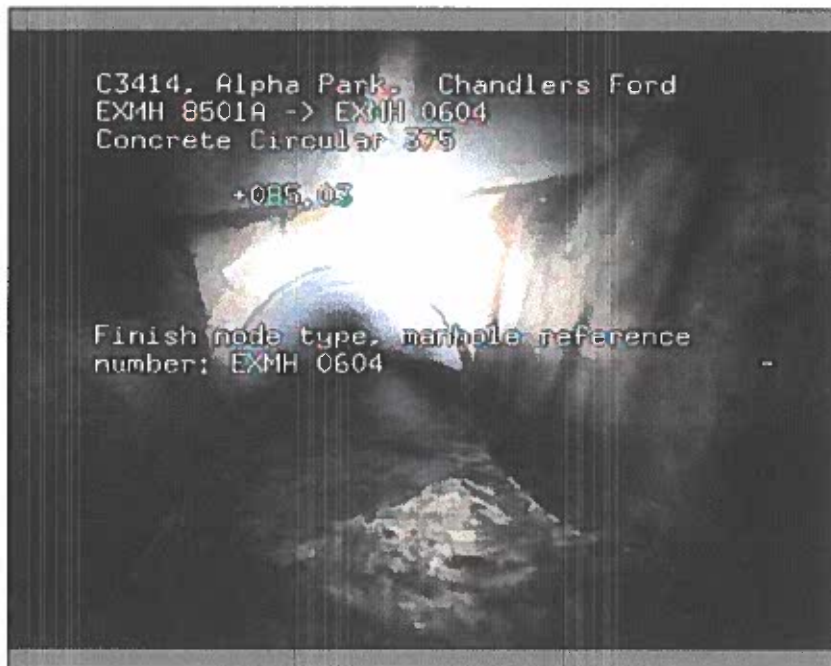


Photo: 6_6_25_A.JPG

85.03m, Finish node type, manhole reference number: EXMH 0604

Inspection report

Date : 08/12/2016	Job number : PV041469	Section Type :	Operator : RYAN WOODS	Section number : 6	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO06 MUD	Camera :	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place : C3414, Alpha Park,	Location details:	U/S MH : EXMH 0604
Road : Chandlers Ford	Catchment:	U/S Depth :
Location Woodland	Pipe Shape : Circular	D/S MH : EXMH 0603
Inspection EXMH 0604 (D/S) EXMH 0603	Pipe Length:	D/S Depth :

Use: Combined	Pipe Width : 375 mm
Year laid :	Pipe Diameter : 375 mm
Purpose : Sample survey to determine asset condition	Pipe material : Concrete
Total length : 29.74 m	Lining :

Comment :

1:240 Position

Observation

Grade

EXMH 0604

0.00

Start node type, manhole, reference number :
EXMH 0604

0

0.00

Water level, 25% of the vertical dimension

0



29.74 m

29.74

Water level, 25% of the vertical dimension

0

29.74

Finish node type, manhole reference number:
EXMH 0603

0

EXMH 0603

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Place :

Inspection pictures

Place : C3414, Alpha Park,	Road : Chandlers Ford	Date : 06/12/2016	Section number : 6	PLR Suffix : X
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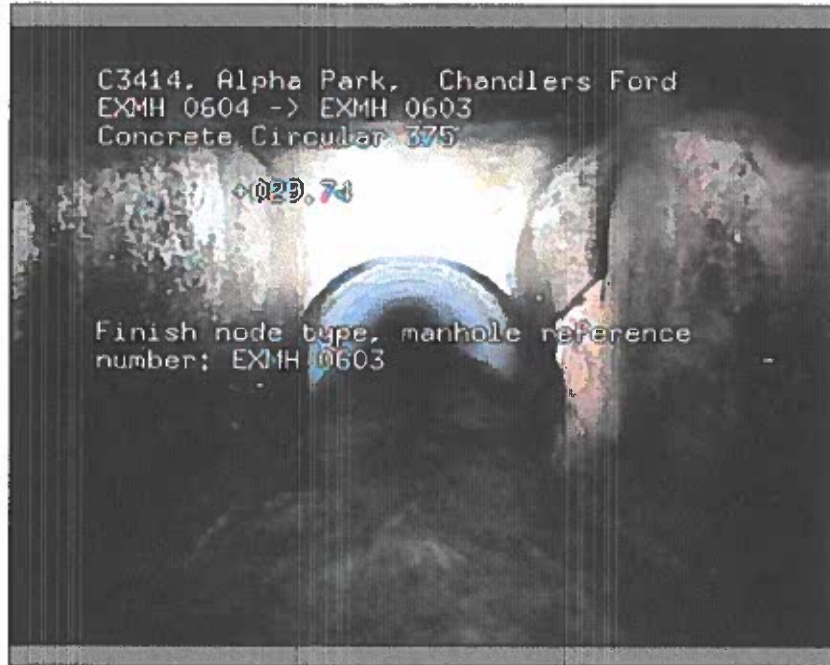


Photo: 7_7_29_A.JPG

29.74m, Finish node type, manhole reference number: EXMH 0603