



Video Deck Inspection

10.22.2



10.

10.17



Safety

ORTH
ett
er BC

NE 103rd St
1st Ave NE
EXIT ↓ 13/4 MI

EXIT 171
Bothell
Lake City Wy.
EXIT ↓ ONLY

EXIT MUST
EXIT

10.22

Safety

10.17



Safety

10.17.

Impact to traffic



9. 7. 2002

Quality

ORTH
ett
er BC

NE 103rd St
1st Ave NE
EXIT ↓ 13/4 MI

EXIT 171
Bothell
Lake City Wy.
EXIT ↓ ONLY

EXIT MUST EXIT

10.22

SAVINGS

2001 study (66 bridges)

- Inspections using traffic control on weekends
\$35,574

VS

- Video Deck Inspection
 - \$11,190

Records

Digital image resolution



- Three Cameras facing forward
1280 x 960
- One Camera directed down (in back)
4096 x 4280
- The Deck Image size covers an area
12.5' wide x 26.4' long

Linescan Imaging Camera



Pathway Services Inc. Digital Video

Image

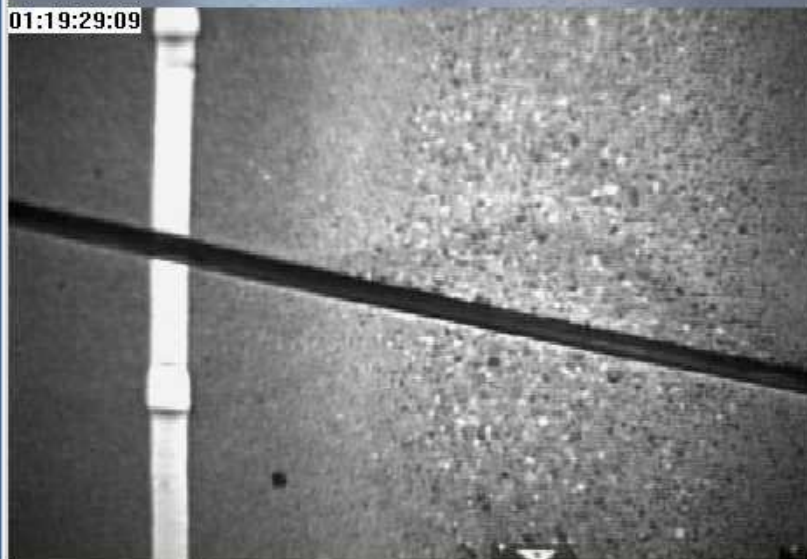


Image / Location Data

01:19:29:09 Rec 240 Set 702
 Dist 708.3 ft 114.204 mi
 Lat +47.0677605 Lon-122.7280121
 Heading 85.6°
 Road: 005 - Lane 2 DD: 1
 FDiPost: 114.070 TDiPost: 116.070

Digitized Image Control

1	2	<<	>>	Change Dir.	Find	Print
3	4					

Skip 0 feet

Benefits

- SAFETY
- IMPACTS TO THE TRAVELING PUBLIC
- QUALITY
- SAVINGS (Time and Money)
- RECORDS

Costs (Labor)

- Developing annual list
- Filming
- Processing
- Previewing
- Reporting



COSTS - EQUIPMENT

Sticker SHOCK!

Price tag: As Equipped

\$750,000



NCHRP

SYNTHESIS 334

Automated Pavement Distress Collection Techniques

A Synthesis of Highway Practice

TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

**NATIONAL
COOPERATIVE
HIGHWAY
RESEARCH
PROGRAM**

Video Deck Criteria

- Video deck candidates will not include:
 - Bridges with 24 month UBIT frequency
 - Bridges w/sidewalks
 - Local Agency bridges
 - Bridges w/hwy class >3 (FHWA item 5B)
 - Bridges that carry RR, Ped, or hwy/ped traffic (FHWA item 42A)

Video Deck Criteria

- Video deck candidates will not include:
 - Ramps
 - Bridges w/ On-ramps on weave lane (collector distributor)
 - Bridges w/ expansion joints at the intermediate piers

Video Deck Criteria for identifying qualifying bridges

- Video deck candidates will include:
 - Deck Overall code 6 or greater (FHWA item 58).

Video Deck Proposal

- Physical Inspections -Six year interval.
- Inspection findings - Incorporated into the inspection report.
- A flag is to be created for tracking purposes.
- Deficiencies discovered -Additional field investigation
- Annual summary follow-up.

Preview of Data

What to look for:

- Spalls/potholes
- Patches
- Barrier Damage
- Joint alignment/damage
- Elements for further review



Structure ID.	Bridge No.	Milepost	Arm	Film Date	Set No.	Inspector	Date
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Bridge Name	Frame No. at Beginning of Bridge
Y N	: : :

Field Deck Inspection Required <input type="checkbox"/> <input checked="" type="checkbox"/>	Reason:
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NBI ELEMENT		COMMENTS:
663	Deck Overall	
681	Approach / Roadway	
684	Bridge Rails	
685	Transitions	
686	Guardrails	
687	Terminals	

BMS ELEMENT		COMMENTS:
12	Concrete Deck	
321	Concrete Approach Slab	
331	Concrete Bridge Rail	
417	Silicone Rubber Joints	
804	Polyester Concrete Overlay	



Pathway Services Inc. Digital Video

Image

- :09
- 3
- Bright +
- Bright -
- Cont. +
- Cont. -
- Default

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3	4	

Skip feet

Thank You!

Any Questions?