

PHOTO #1

Spans 8 – 11

Span 7

Spans 3 - 6

BRIDGE NO. 070001

North elevation

7/15/2016

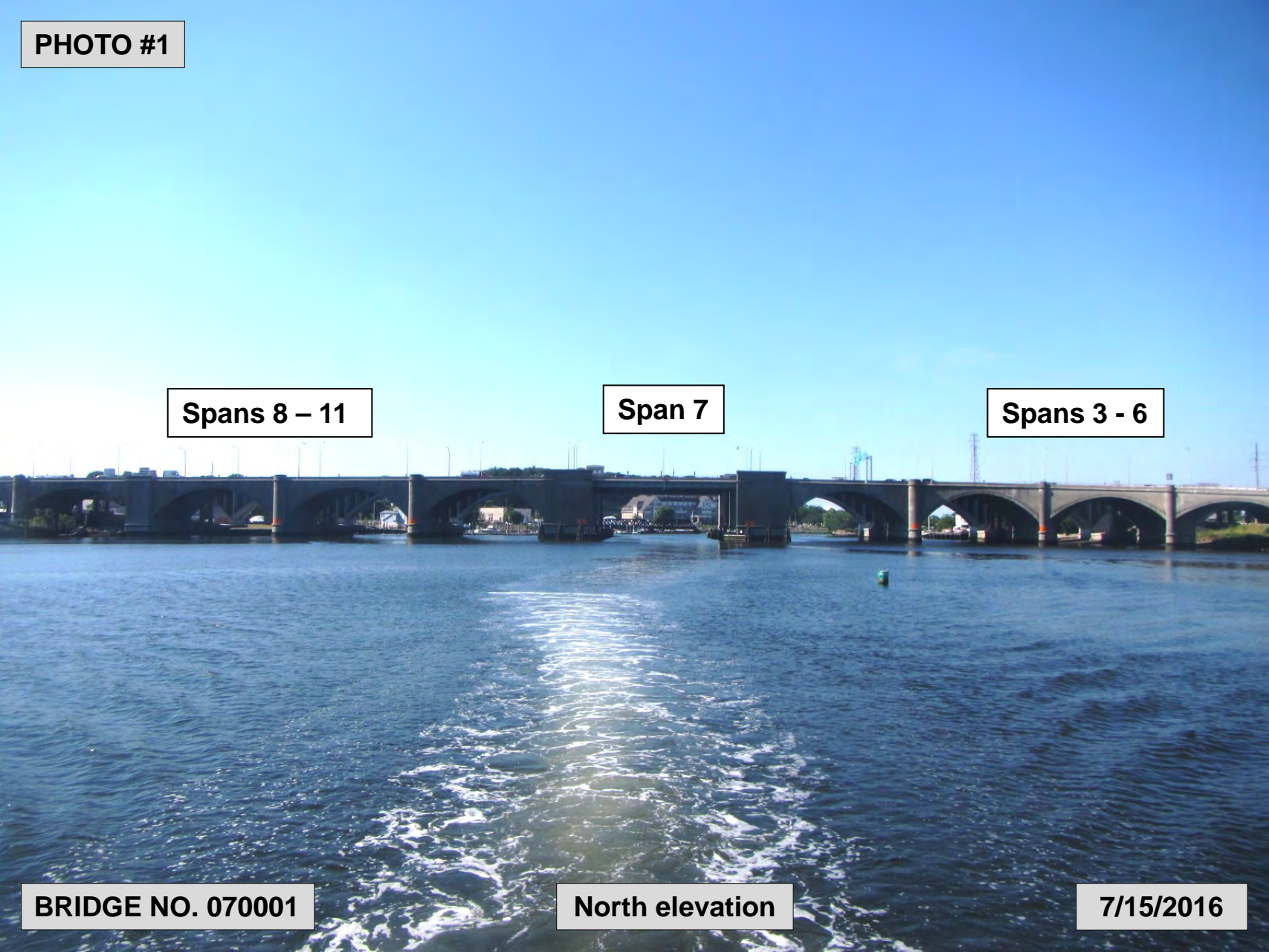


PHOTO #2

Span 7

Spans 1R – 3R

BRIDGE NO. 070001

North elevation (main), East elevation (ramp)

7/15/2016

PHOTO #3

Span 7

Span 18

BRIDGE NO. 070001

North elevation of Spans 7 – 18

7/15/2016

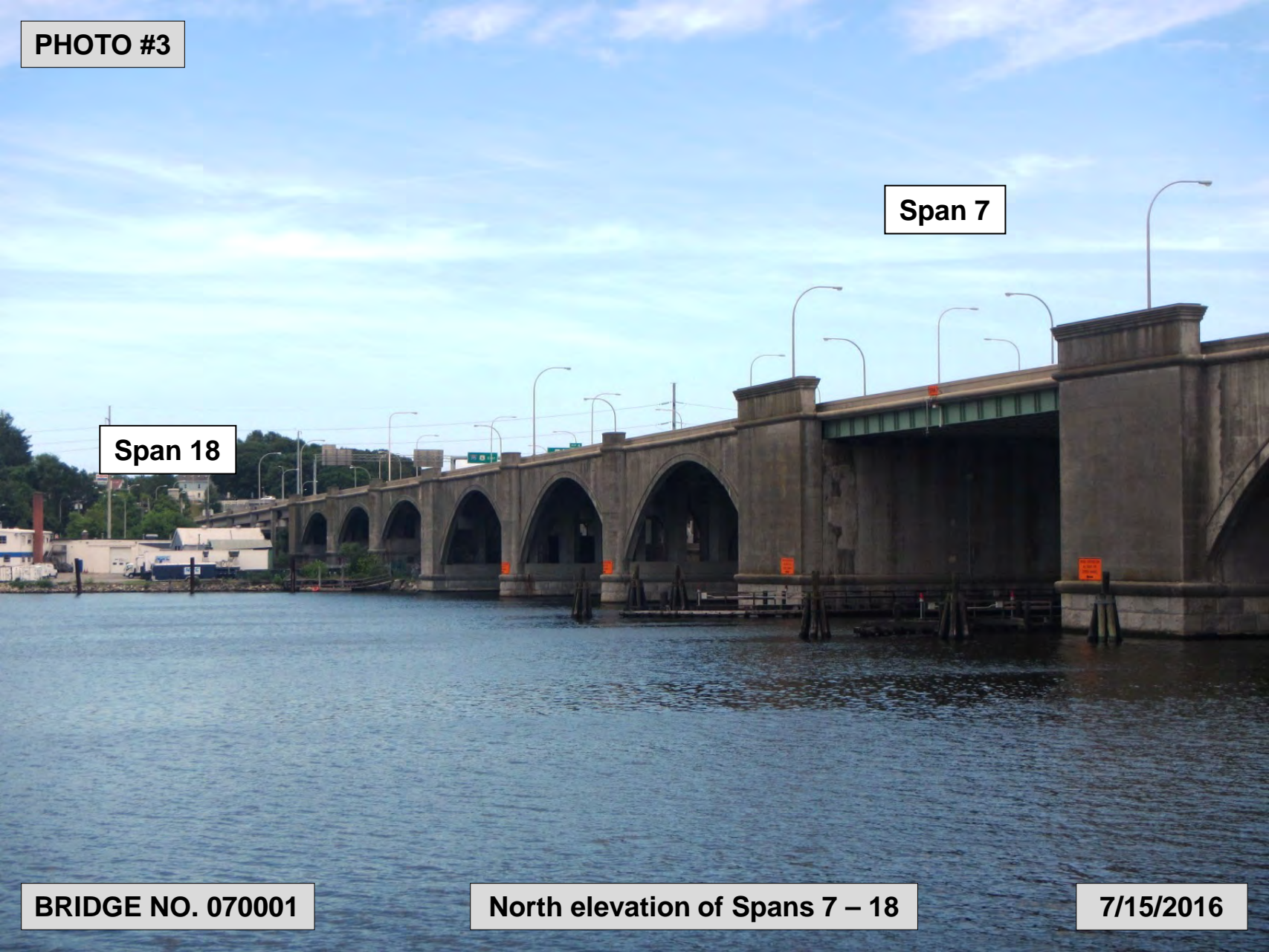


PHOTO #4

Spans 5 - 6

Span 7

Spans 8 - 12

BRIDGE NO. 070001

South elevation, note adjacent bridge

7/15/2016

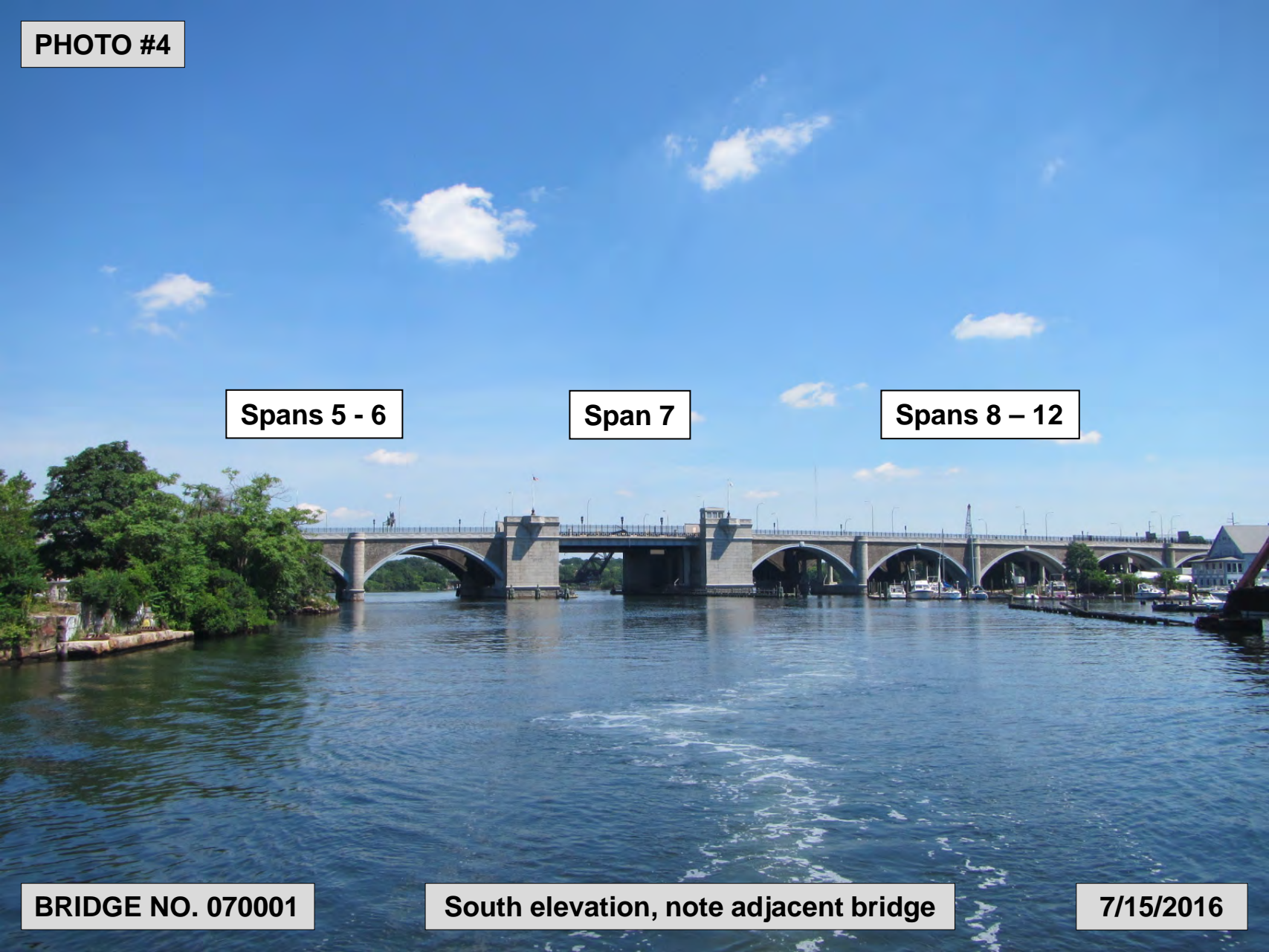


PHOTO #5



BRIDGE NO. 070001

North elevation of Span 1 over Gano Street

7/15/2016

PHOTO #6



Pier wall

BRIDGE NO. 070001

South elevation of Span 1 over Gano Street

7/15/2016

PHOTO #7



BRIDGE NO. 070001

North elevation of Spans 2 – 4 over dirt and channel

7/15/2016

PHOTO #8



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North elevation of Span 15 over Water Street

7/15/2016

PHOTO #9



BRIDGE NO. 070001

North elevation of Span 16 over Waterfront Drive

7/15/2016

PHOTO #10



BRIDGE NO. 070001

North elevation of Span 17 over dirt area

7/15/2016

PHOTO #11



BRIDGE NO. 070001

South elevation of Span 18 over Valley Street

7/15/2016

PHOTO #12

3/4" bearing pad tilt



BRIDGE NO. 070001

**Span 3, south side of girder B
bearing pad at the east corbel**

7/15/2016

PHOTO #13

15" high x up to 18" wide x 2" deep spall and hollow area with exposed reinforcing plate and bearing pad undermined 1" deep

Rust stains and hairline cracks (similar at scattered locations)

BRIDGE NO. 070001

Span 8, girder F at the east corbel

7/15/2016

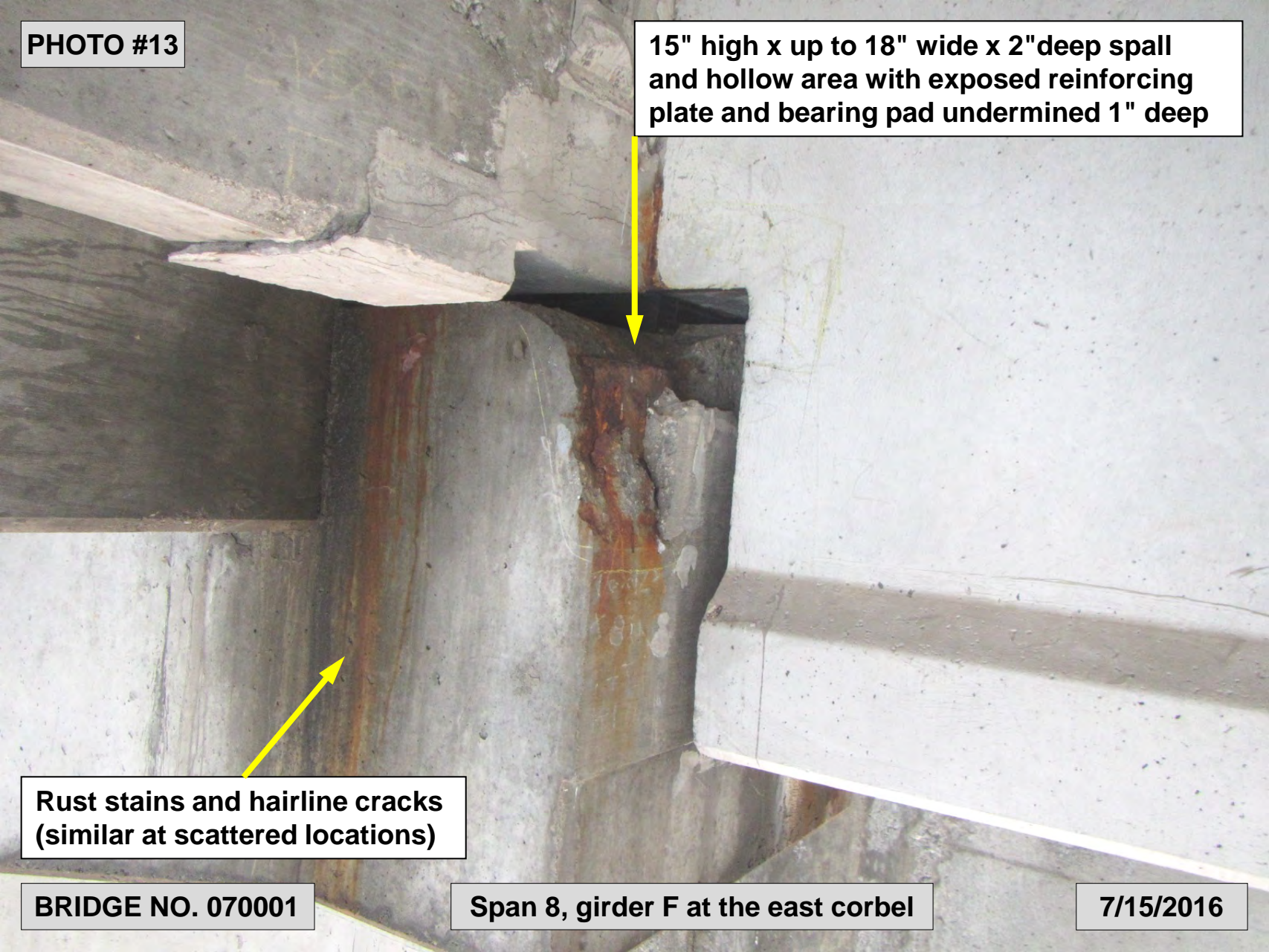


PHOTO #14

Full height x 9" wide x up to 3" deep spall with exposed rebar and bearing pad is undermined 1" deep

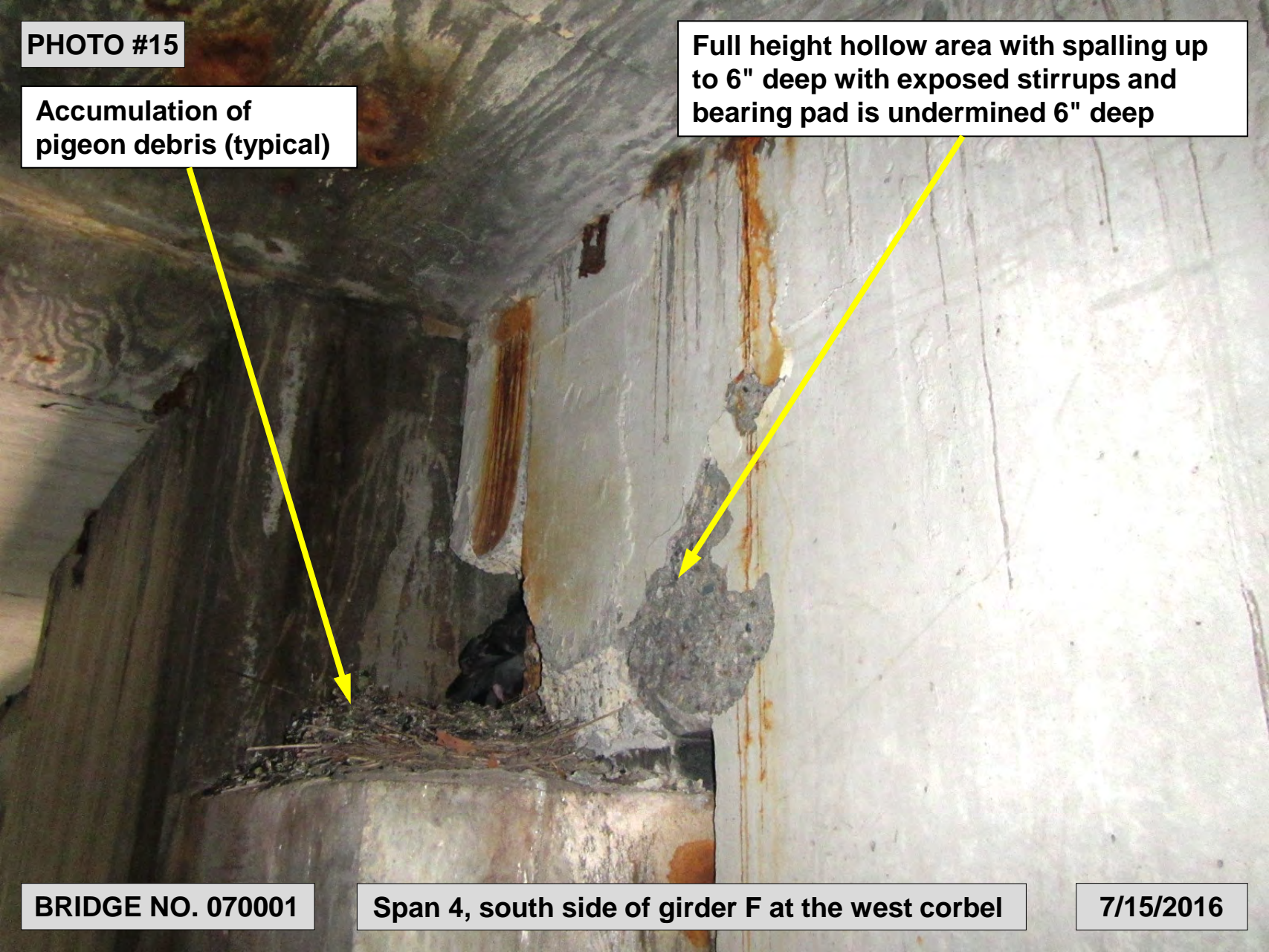
28" high x up to 27" wide x 2" deep spall with exposed debonded stirrups with up to 25% section loss

13" high x 14" wide x 1.5" deep spall with exposed reinforcing plate; with efflorescence and rust

PHOTO #15

**Accumulation of
pigeon debris (typical)**

**Full height hollow area with spalling up
to 6" deep with exposed stirrups and
bearing pad is undermined 6" deep**



BRIDGE NO. 070001

Span 4, south side of girder F at the west corbel

7/15/2016

PHOTO #16

Full height x 12" long x 7" deep spall with exposed and debonded stirrup. Bearing pad is undermined up to 5" deep



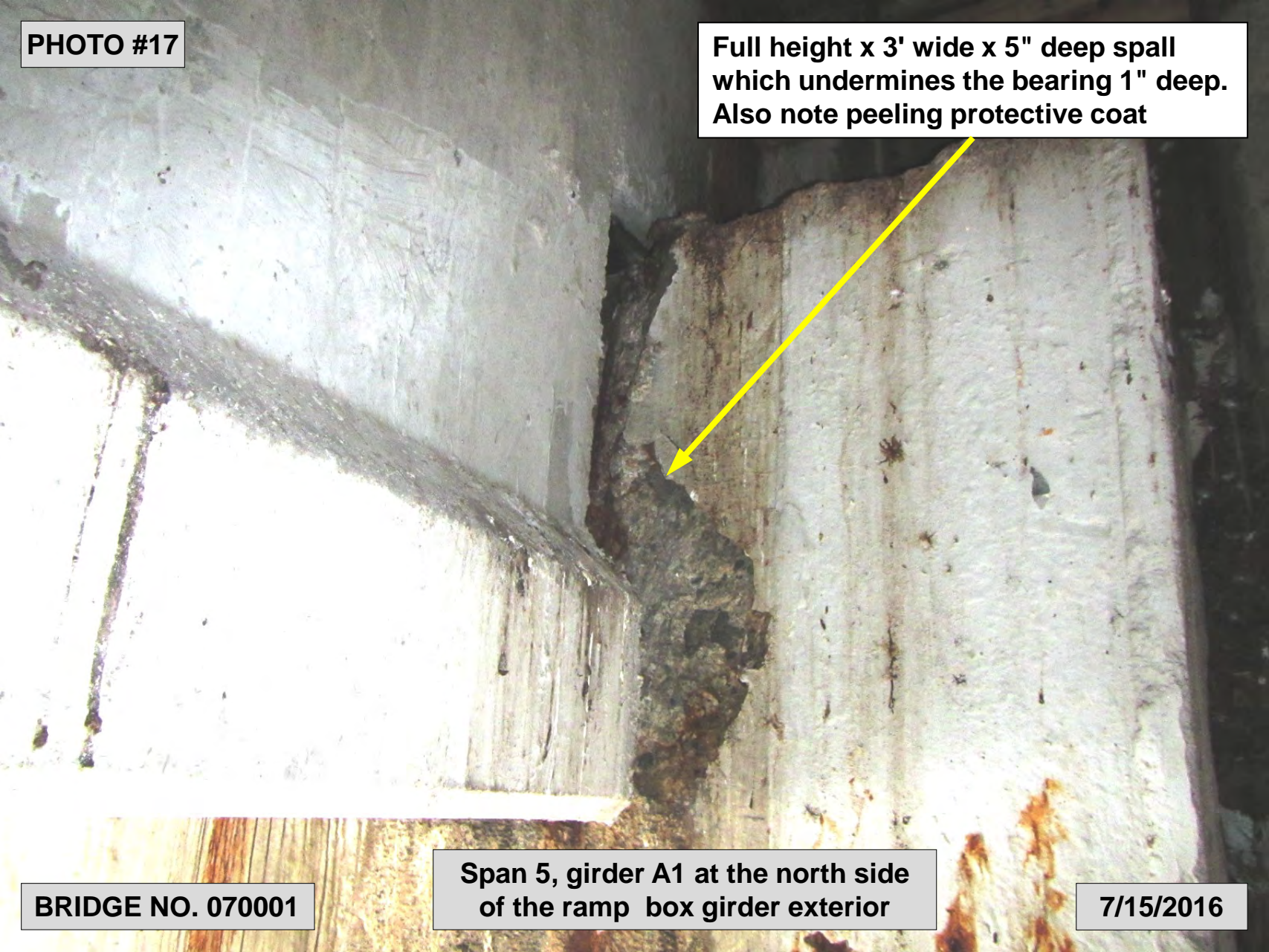
BRIDGE NO. 070001

Span 6, south side of girder F at the west corbel

7/15/2016

PHOTO #17

Full height x 3' wide x 5" deep spall which undermines the bearing 1" deep. Also note peeling protective coat



BRIDGE NO. 070001

**Span 5, girder A1 at the north side
of the ramp box girder exterior**

7/15/2016

PHOTO #18



BRIDGE NO. 070001

**Same as photo 17 showing close-up of
undermined bearing pad**

7/15/2016

PHOTO #19

Full height x 24" wide X 6" deep spall and hollow area with exposed stirrups and bearing pad is undermined 2.5" deep

Sand and debris accumulation (typical)

BRIDGE NO. 070001

Span 8, south side of girder F at the west corbel

7/15/2016

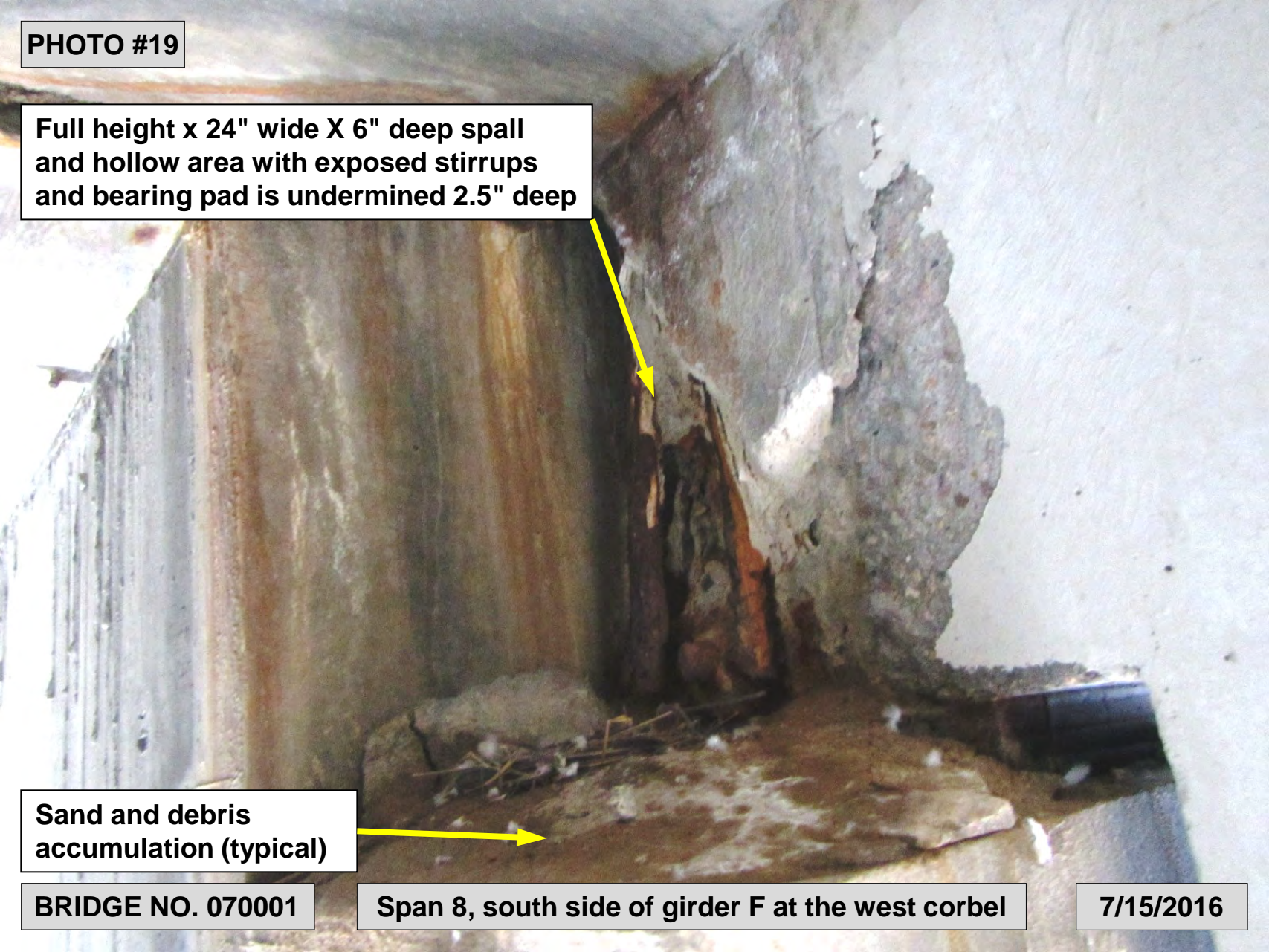
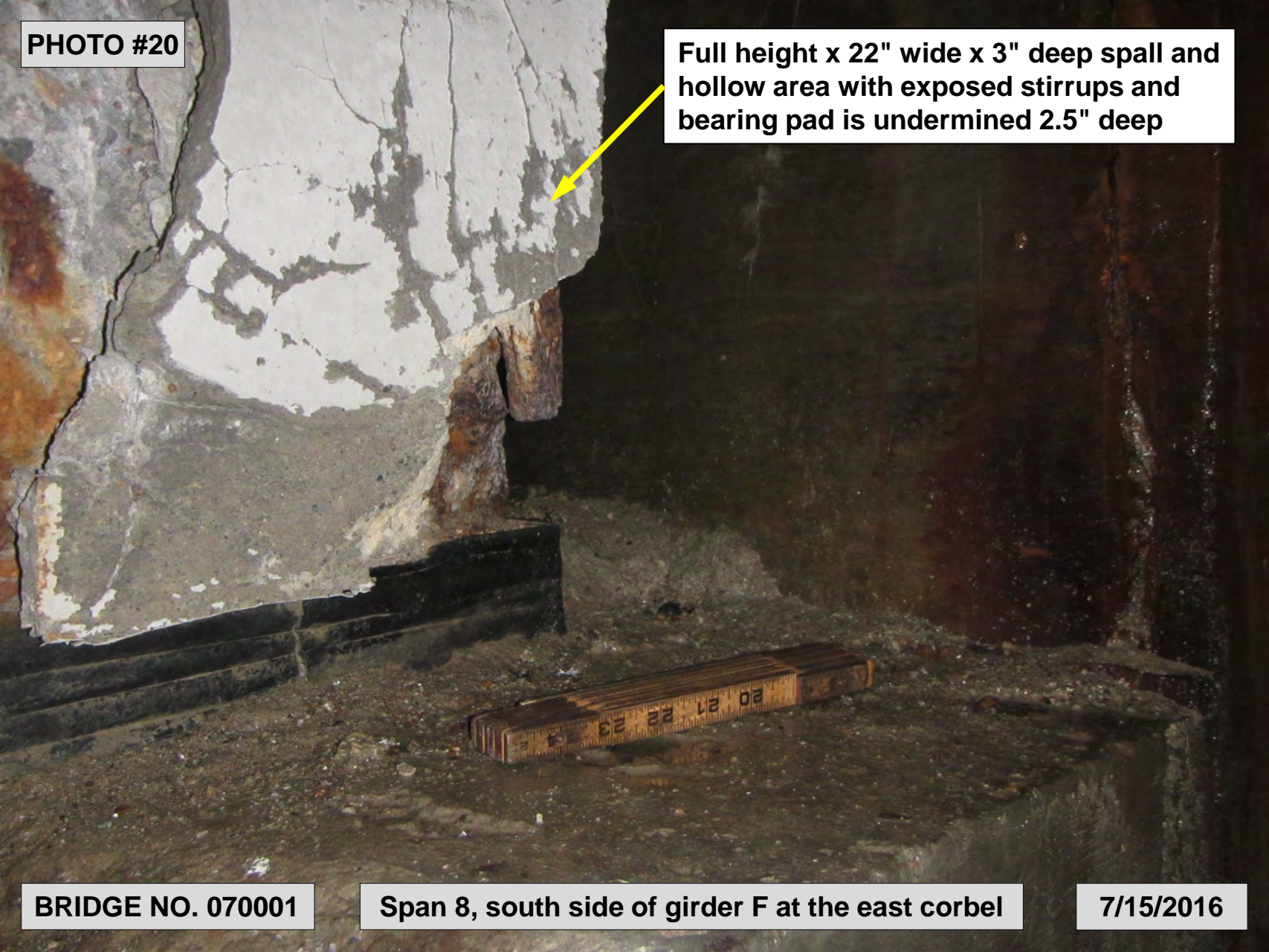


PHOTO #20

Full height x 22" wide x 3" deep spall and hollow area with exposed stirrups and bearing pad is undermined 2.5" deep



BRIDGE NO. 070001

Span 8, south side of girder F at the east corbel

7/15/2016

PHOTO #21

Full height x 12" wide x 3" deep spall with exposed and debonded stirrups and bearing pad is undermined 2" deep

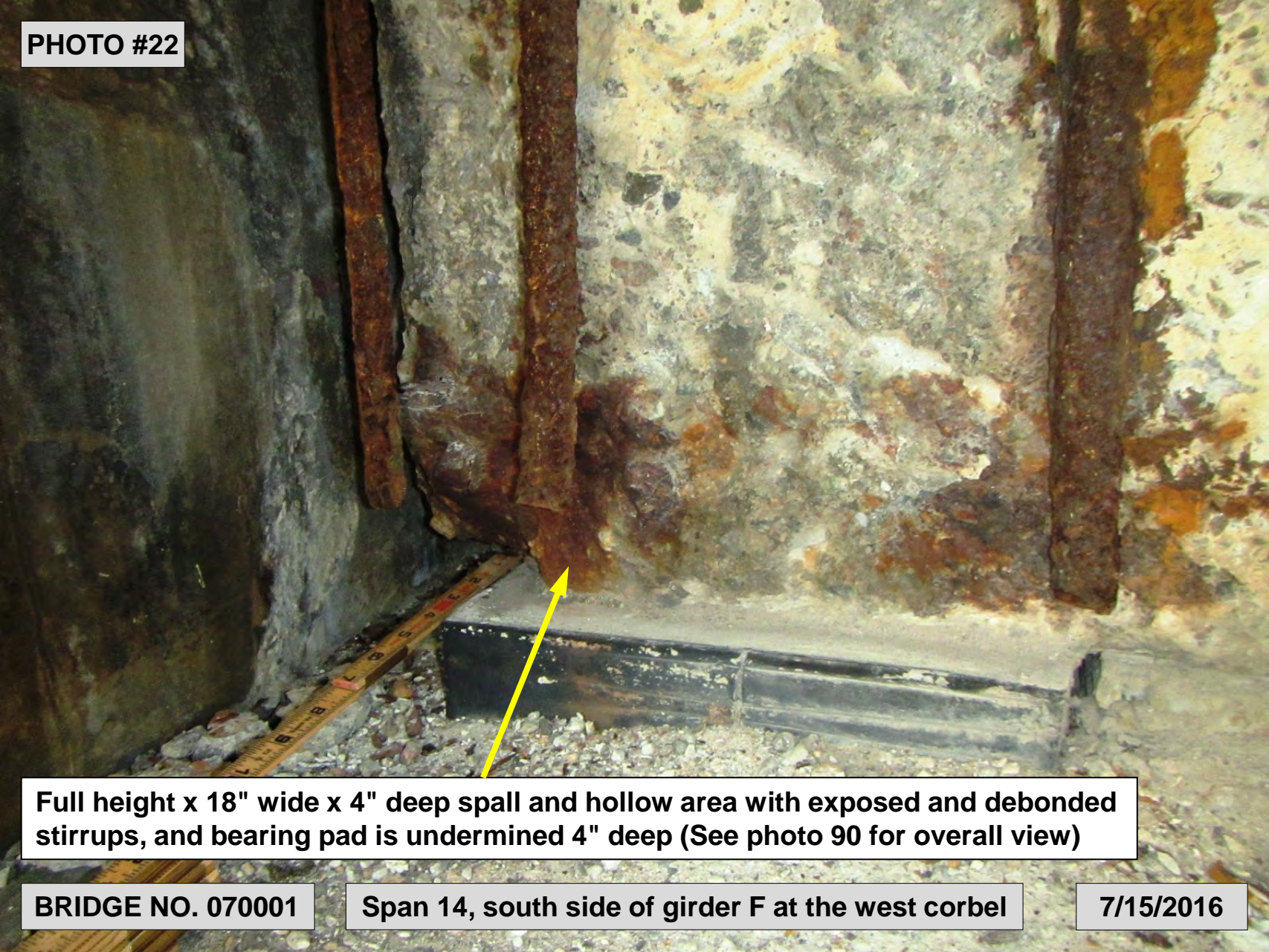


BRIDGE NO. 070001

Span 11, south side of girder F at the east corbel

7/15/2016

PHOTO #22



Full height x 18" wide x 4" deep spall and hollow area with exposed and debonded stirrups, and bearing pad is undermined 4" deep (See photo 90 for overall view)

BRIDGE NO. 070001

Span 14, south side of girder F at the west corbel

7/15/2016

PHOTO #23

(2) Spalls up to 33" long x 10" high x 2.5" deep with exposed stirrups and bearing pad is undermined 1" deep. Also note the bearing pad has slid forward less than 1"



BRIDGE NO. 070001

Span 14, girder F south side at pier 14

7/15/2016

PHOTO #24

1' long x 2" high x 2" deep spall with exposed rebar which extends to the girder underside and undermines the bearing pad x 1.5" deep. Also note 1/2" bearing pad tilt



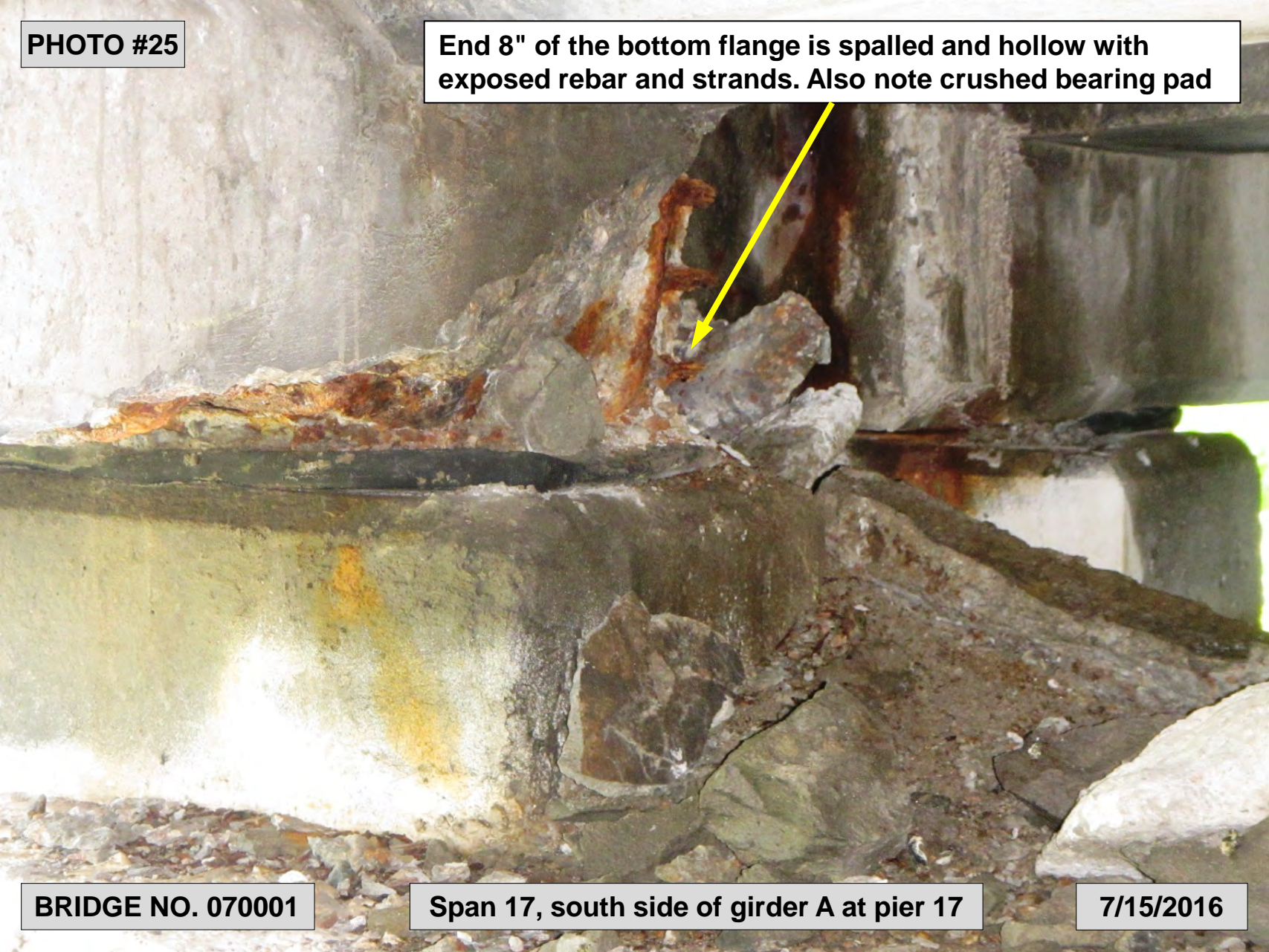
BRIDGE NO. 070001

Span 14, girder C north side at pier 14

7/15/2016

PHOTO #25

End 8" of the bottom flange is spalled and hollow with exposed rebar and strands. Also note crushed bearing pad

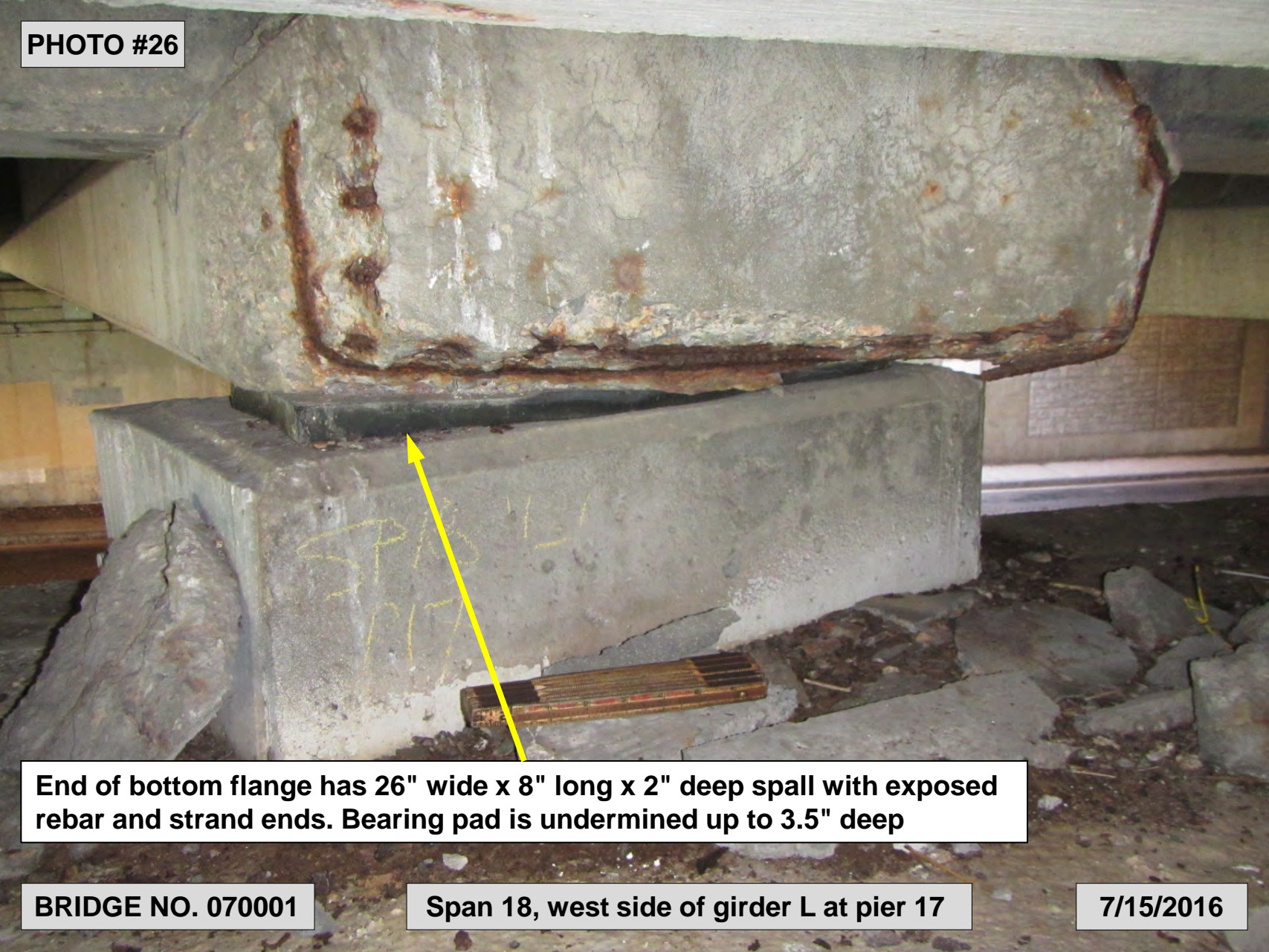


BRIDGE NO. 070001

Span 17, south side of girder A at pier 17

7/15/2016

PHOTO #26



End of bottom flange has 26" wide x 8" long x 2" deep spall with exposed rebar and strand ends. Bearing pad is undermined up to 3.5" deep

BRIDGE NO. 070001

Span 18, west side of girder L at pier 17

7/15/2016

PHOTO #27



BRIDGE NO. 070001

**Same as photo 26 showing
close-up of bearing area loss**

7/15/2016

PHOTO #28

4" long x 8" high x 1' deep spall with (1) exposed stirrup with 30% section loss

8" long x 4" high x 3" deep pedestal spall which undermines the bearing pad x 2.5" deep

BRIDGE NO. 070001

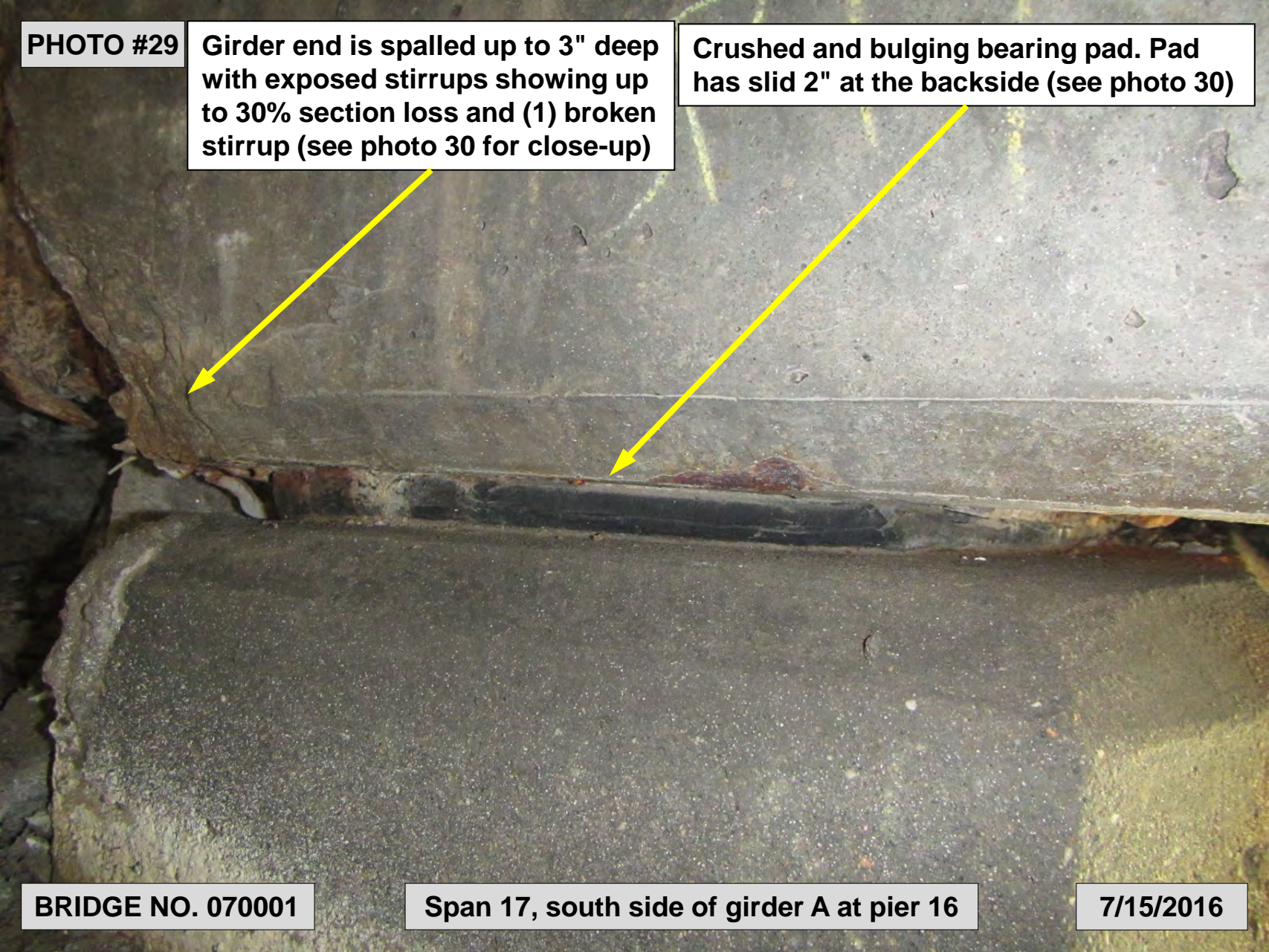
Span 16, south side of girder A pedestal at pier 16

7/15/2016

PHOTO #29

Girder end is spalled up to 3" deep with exposed stirrups showing up to 30% section loss and (1) broken stirrup (see photo 30 for close-up)

Crushed and bulging bearing pad. Pad has slid 2" at the backside (see photo 30)



BRIDGE NO. 070001

Span 17, south side of girder A at pier 16

7/15/2016

PHOTO #30



BRIDGE NO. 070001

Same as photo 29 showing exposed stirrups with section loss and bearing pad has slid 2" at the backside

7/15/2016

PHOTO #31

Moderate to heavy corrosion on pedestal side plates (similar at several locations)

Pedestal side plates and grout jacket overhangs the pier cap (similar at several locations)

BRIDGE NO. 070001

Span 17, girder F pedestal at pier 17

7/15/2016

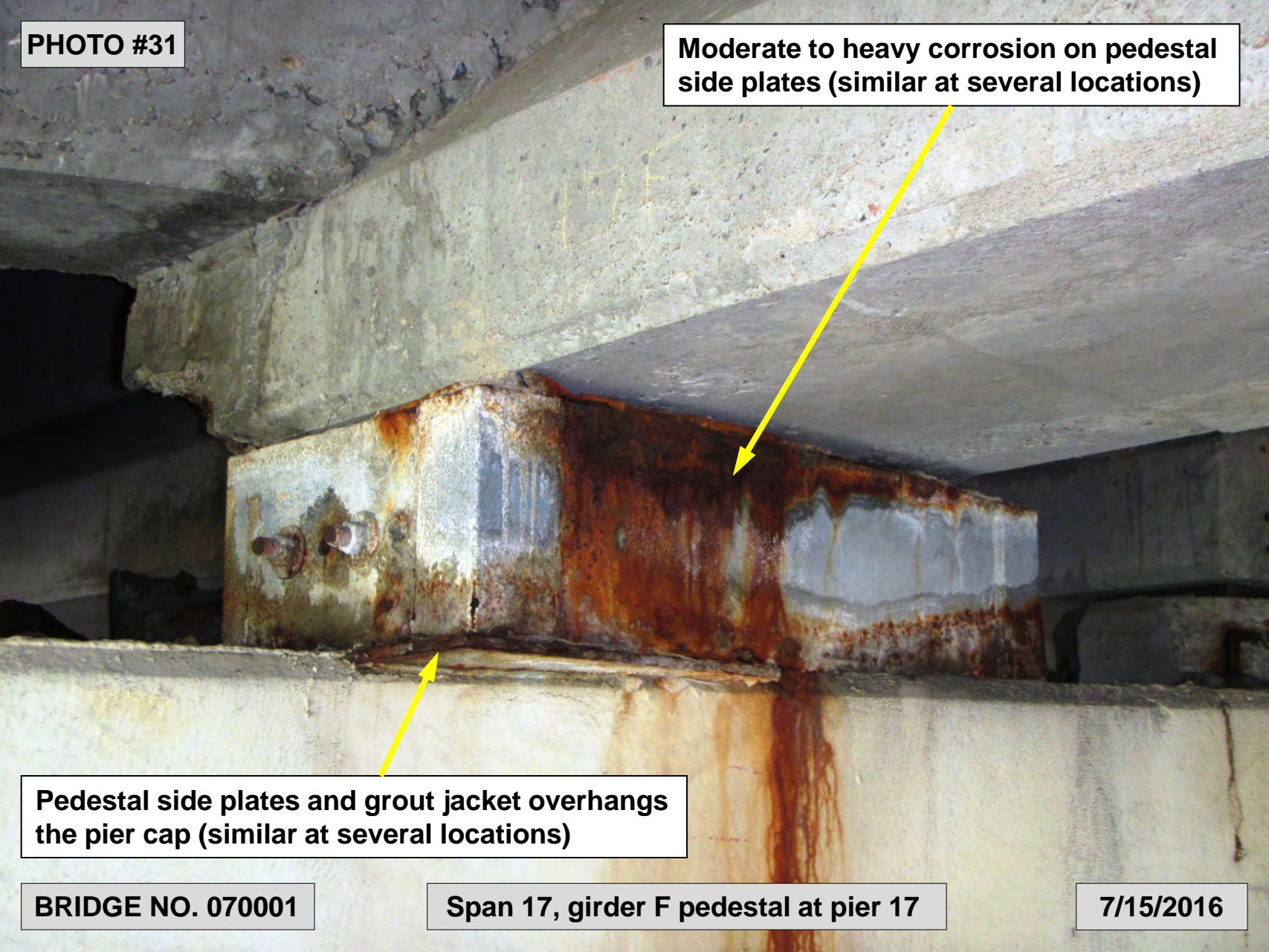
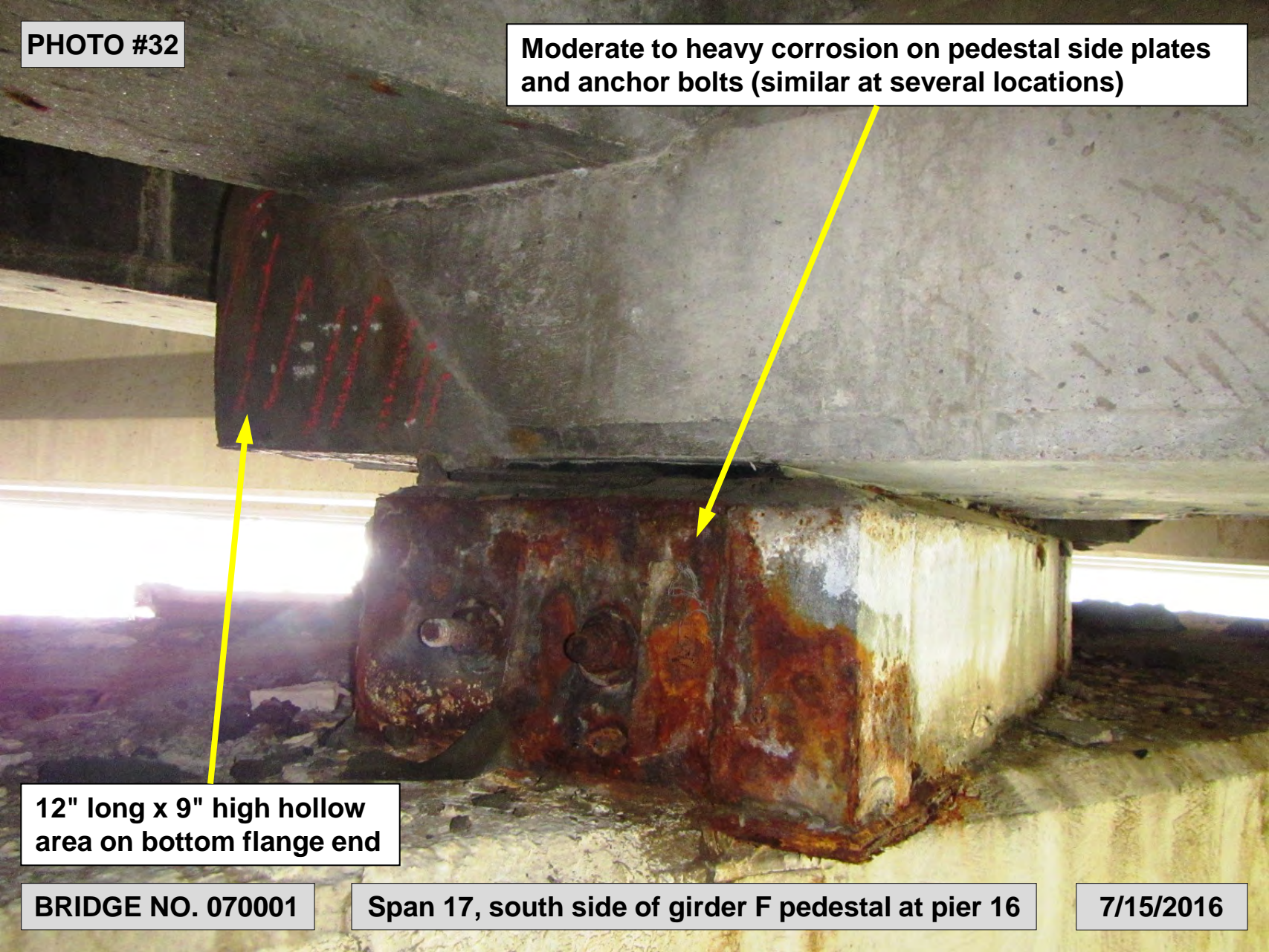


PHOTO #32

Moderate to heavy corrosion on pedestal side plates and anchor bolts (similar at several locations)



12" long x 9" high hollow area on bottom flange end

BRIDGE NO. 070001

Span 17, south side of girder F pedestal at pier 16

7/15/2016

PHOTO #33

Full width x 16" long x 5" high x 4" deep spall with exposed rebar and strands, and 1' long x 7" high hollow area on bottom flange end

Missing bolts from pedestal side plates, and corrosion on plates

Vertical hairline cracks with efflorescence and rust

Span 18, north side of girder G pedestal at the east abutment

BRIDGE NO. 070001

7/15/2016

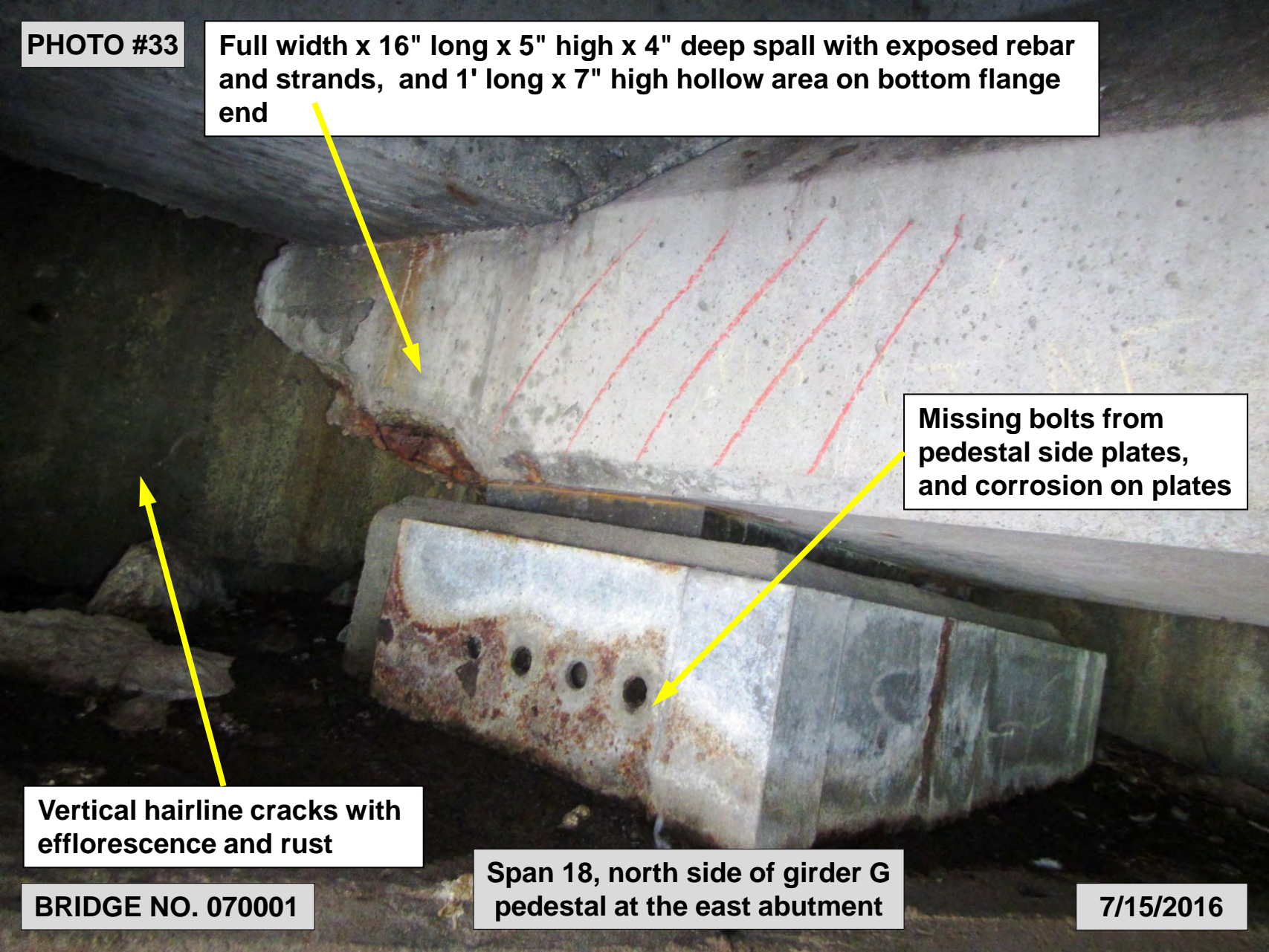


PHOTO #34

Moderate bulging and tears in bearing pad



Span 6, north side of the south arch at the west shiplap joint

BRIDGE NO. 070001

7/15/2016

PHOTO #35



2" long x 2" deep undermining of bearing pad due to spall at shear key

BRIDGE NO. 070001

**Span 11, north side of the north arch
at the east shiplap joint**

7/15/2016

PHOTO #36

Bearing pad is undermined 3" long x 1/2" deep due to spall on pier wall

See photo 190

BRIDGE NO. 070001

Span 2R, east arch bearing pad at pier 2R

7/15/2016

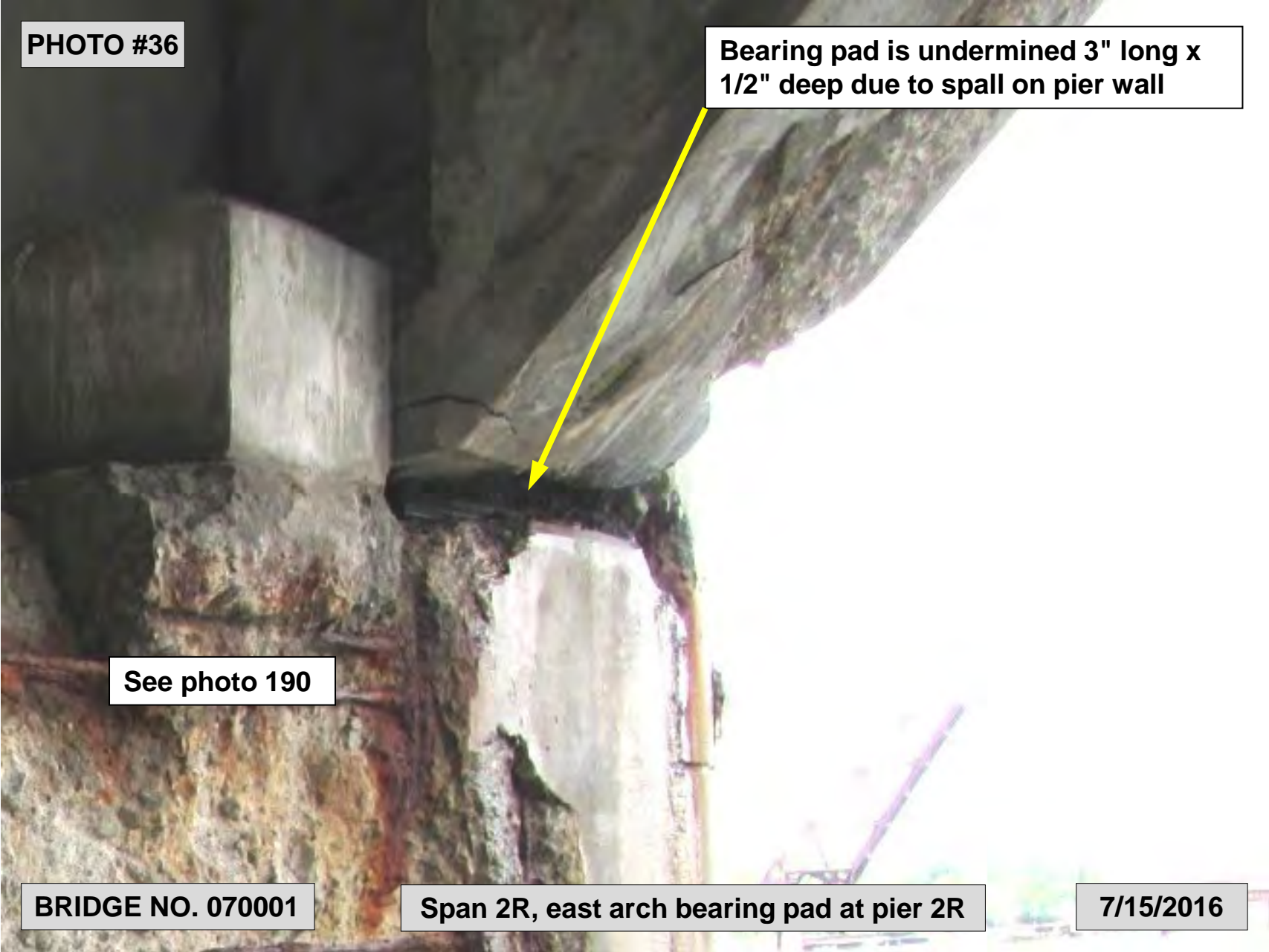


PHOTO #37

Bearing pad is undermined up to 7" deep due to full width x 3' high x up to 12" deep spall with exposed rebar on the pier wall pedestal



BRIDGE NO. 070001

**Span 7, girder A cantilever bearing
at pier 7 interior; west wall**

7/15/2016

PHOTO #38

Bearing pad is undermined 1" deep due to 1' high x 1' wide x 1.5" deep spall with exposed reinforcing plate on the corbel. Also note moderate to heavy bulging on the bearing pad

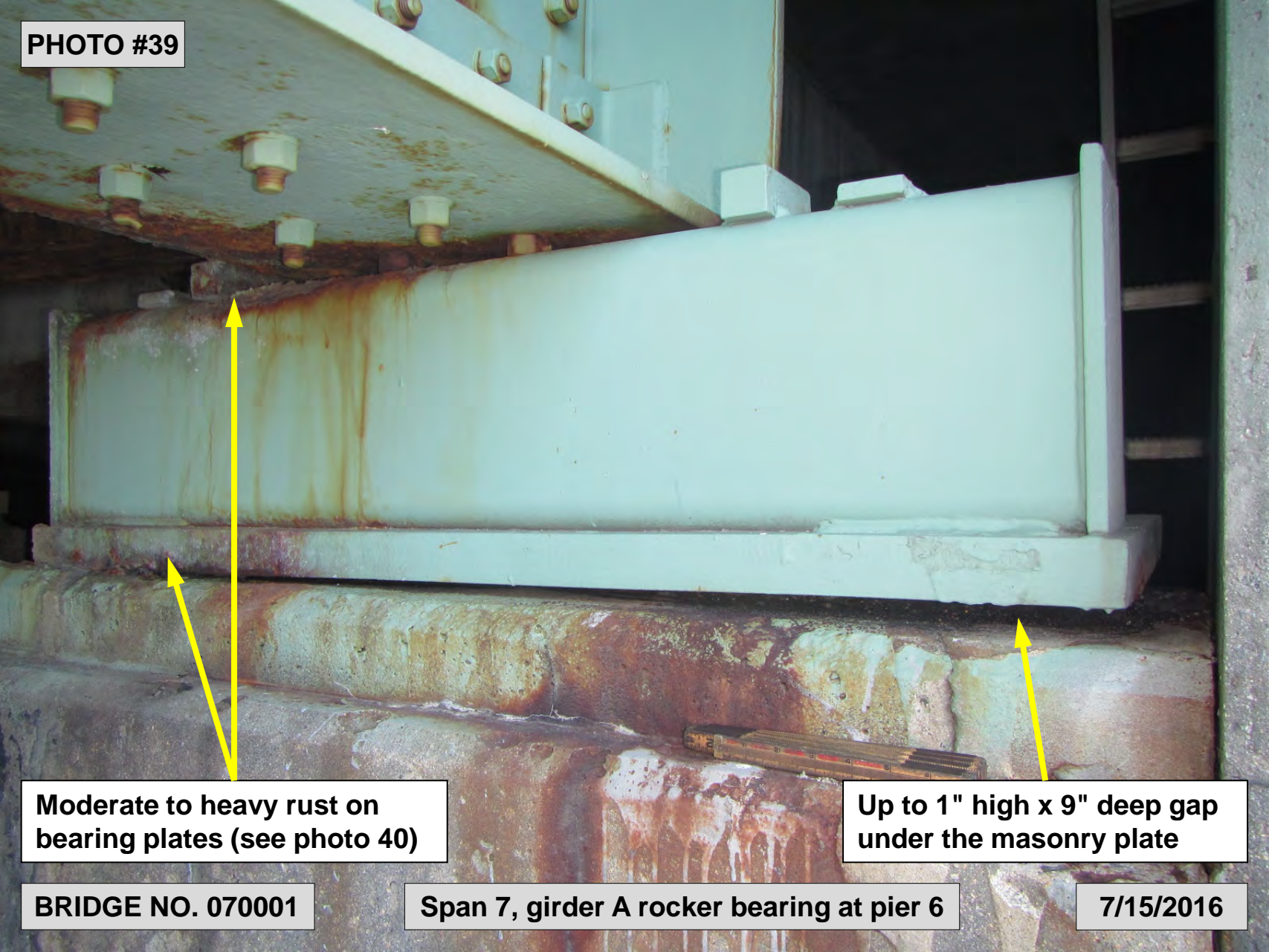


BRIDGE NO. 070001

Span 12, girder F bearing pad at the east corbel

7/15/2016

PHOTO #39



Moderate to heavy rust on bearing plates (see photo 40)

Up to 1" high x 9" deep gap under the masonry plate

BRIDGE NO. 070001

Span 7, girder A rocker bearing at pier 6

7/15/2016

PHOTO #40



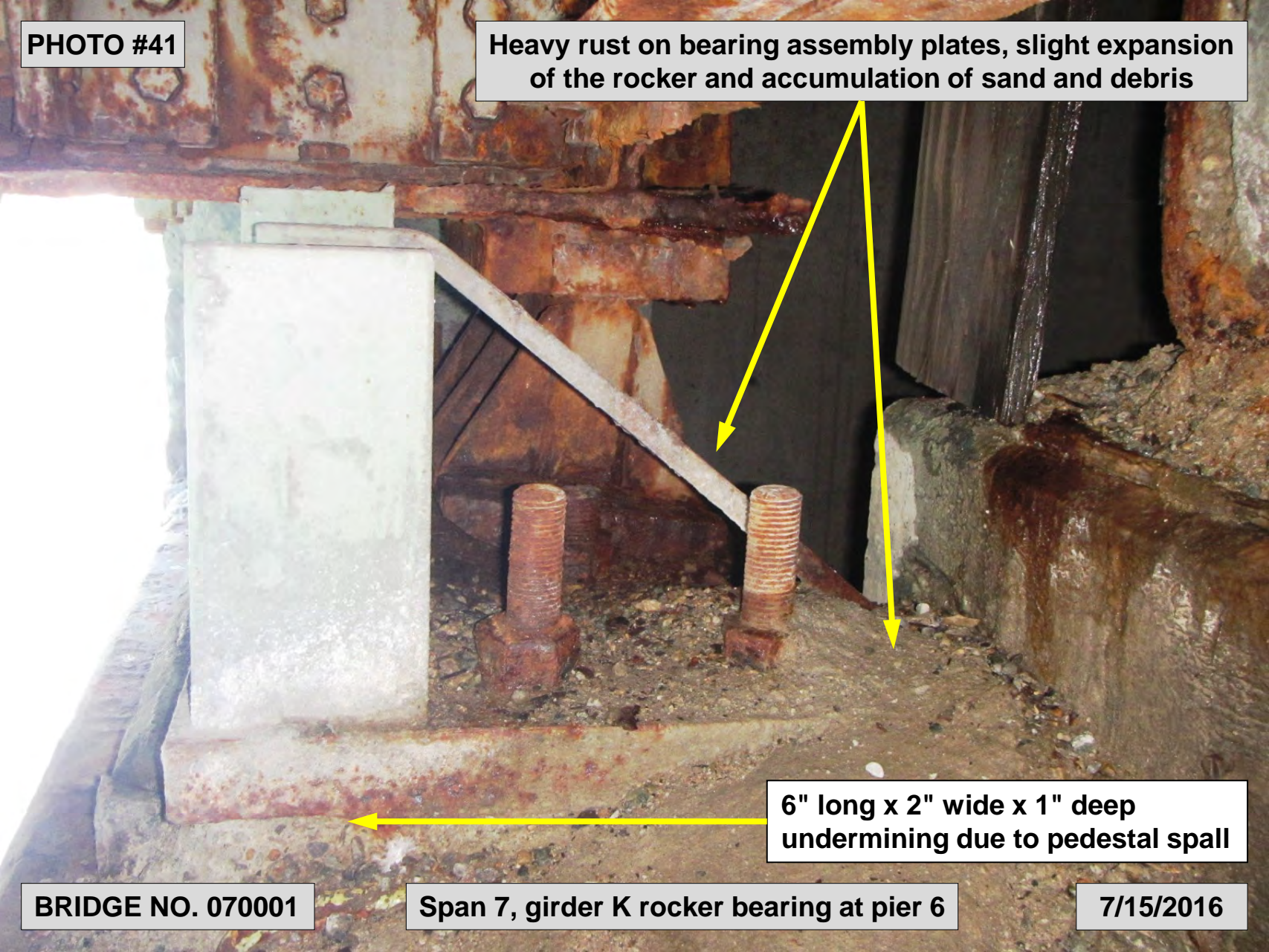
Same as photo 39 showing heavy rust on bearing assembly plates, slight expansion of the rocker and edge spalls on the pedestal

BRIDGE NO. 070001

7/15/2016

PHOTO #41

Heavy rust on bearing assembly plates, slight expansion of the rocker and accumulation of sand and debris



6" long x 2" wide x 1" deep
undermining due to pedestal spall

BRIDGE NO. 070001

Span 7, girder K rocker bearing at pier 6

7/15/2016

PHOTO #42

**Up to 1/2" high x 16" deep gap
under the masonry plate**



**Light to moderate to heavy
rust on bearing plates**



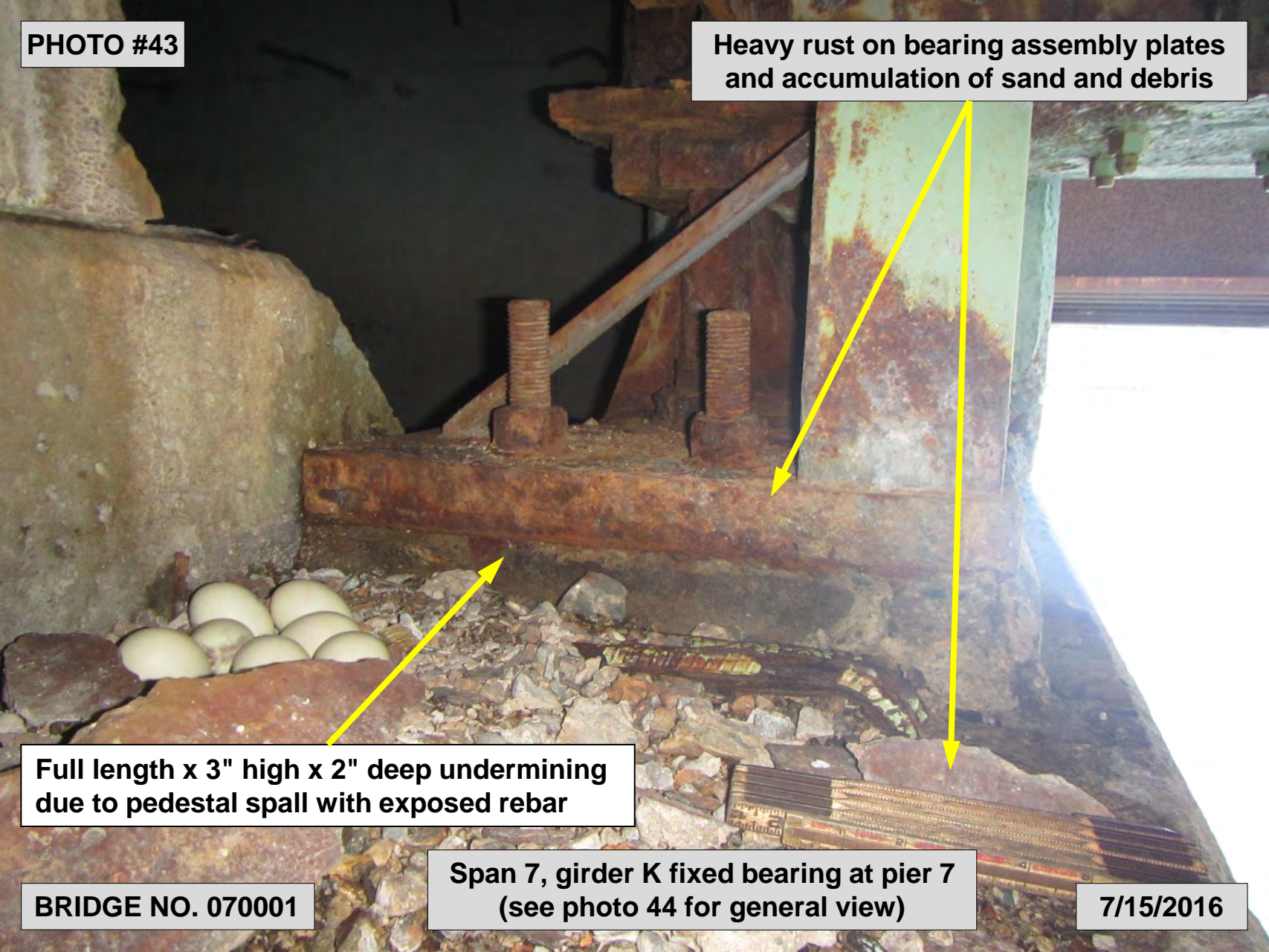
BRIDGE NO. 070001

Span 7, girder C fixed bearing at pier 7

7/15/2016

PHOTO #43

Heavy rust on bearing assembly plates and accumulation of sand and debris



Full length x 3" high x 2" deep undermining due to pedestal spall with exposed rebar

BRIDGE NO. 070001

**Span 7, girder K fixed bearing at pier 7
(see photo 44 for general view)**

7/15/2016

PHOTO #44

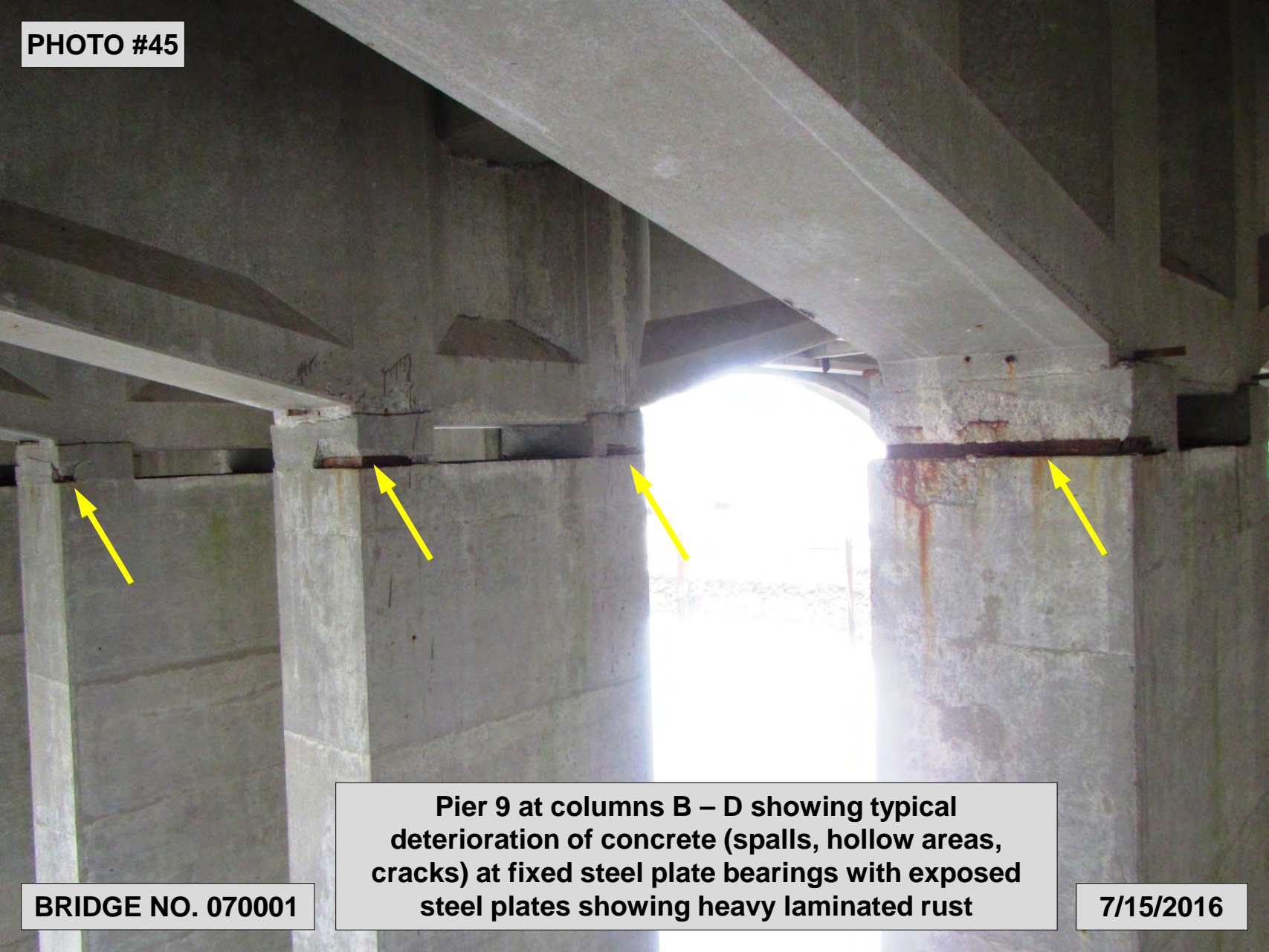


Same as photo 43 showing general view of bearing, gap under the masonry plate, corrosion and pedestal spalls

BRIDGE NO. 070001

7/15/2016

PHOTO #45



Pier 9 at columns B – D showing typical deterioration of concrete (spalls, hollow areas, cracks) at fixed steel plate bearings with exposed steel plates showing heavy laminated rust

BRIDGE NO. 070001

7/15/2016

PHOTO #46



**Full length x full height x 2" deep spall
with exposed rebar and bearing plate**

BRIDGE NO. 070001

Span 12, pier 13 at top of column E

7/15/2016

PHOTO #47

Hairline map cracking with efflorescence and dusting around scupper pipe in top flange

Detached scupper support cable

BRIDGE NO. 070001

**Interior of box girder, span 3R
in cell 3E at scupper pipe**

7/15/2016

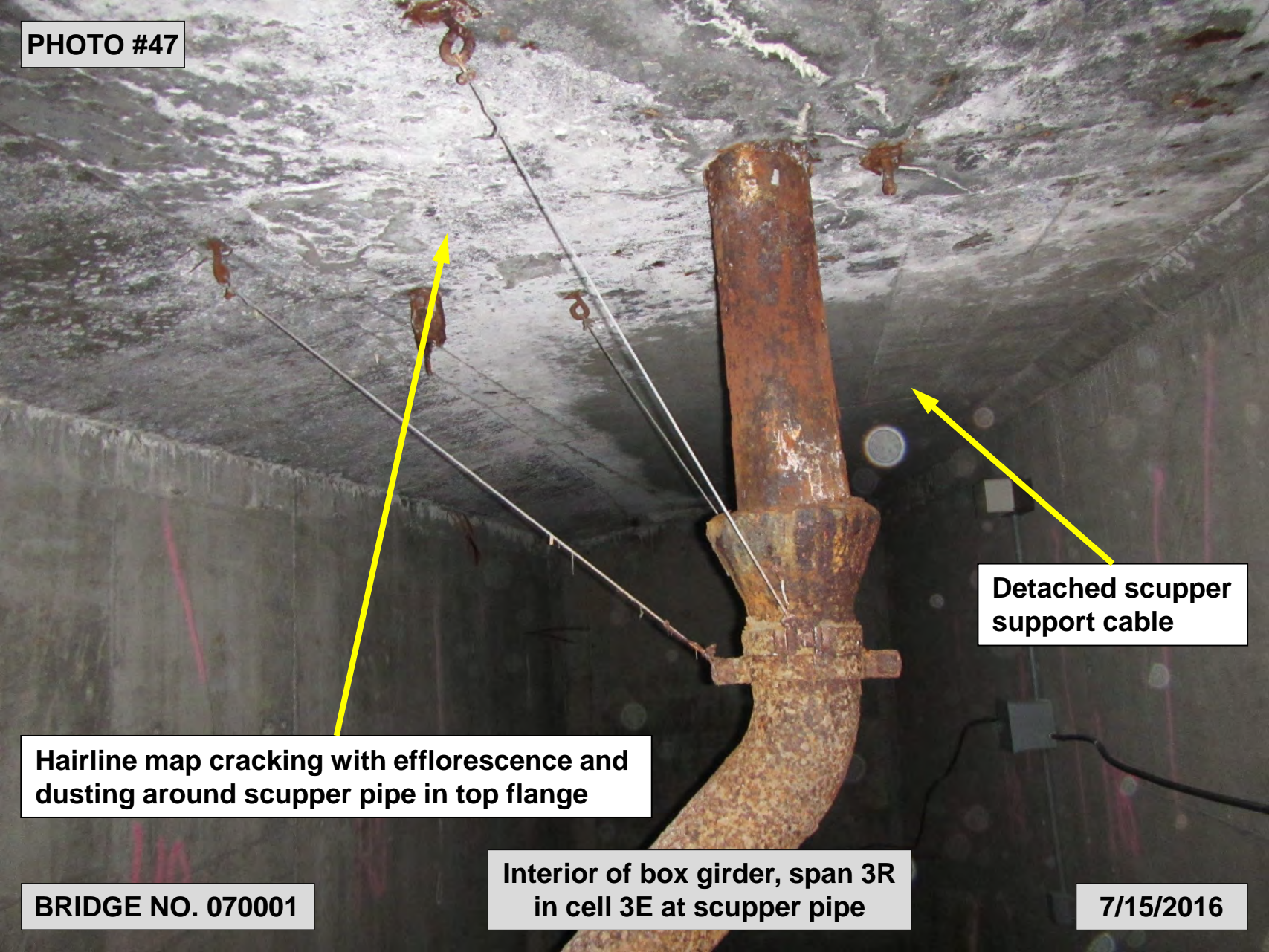


PHOTO #48

**Underside of
top flange**

End Diaphragm

**6' wide x 2' long x up to 5" deep spall/hollow area with
exposed debonded rebars and stalactites in top flange**

BRIDGE NO. 070001

**Interior of box girder, span 1R
in cell 1E near abutment R**

7/15/2016

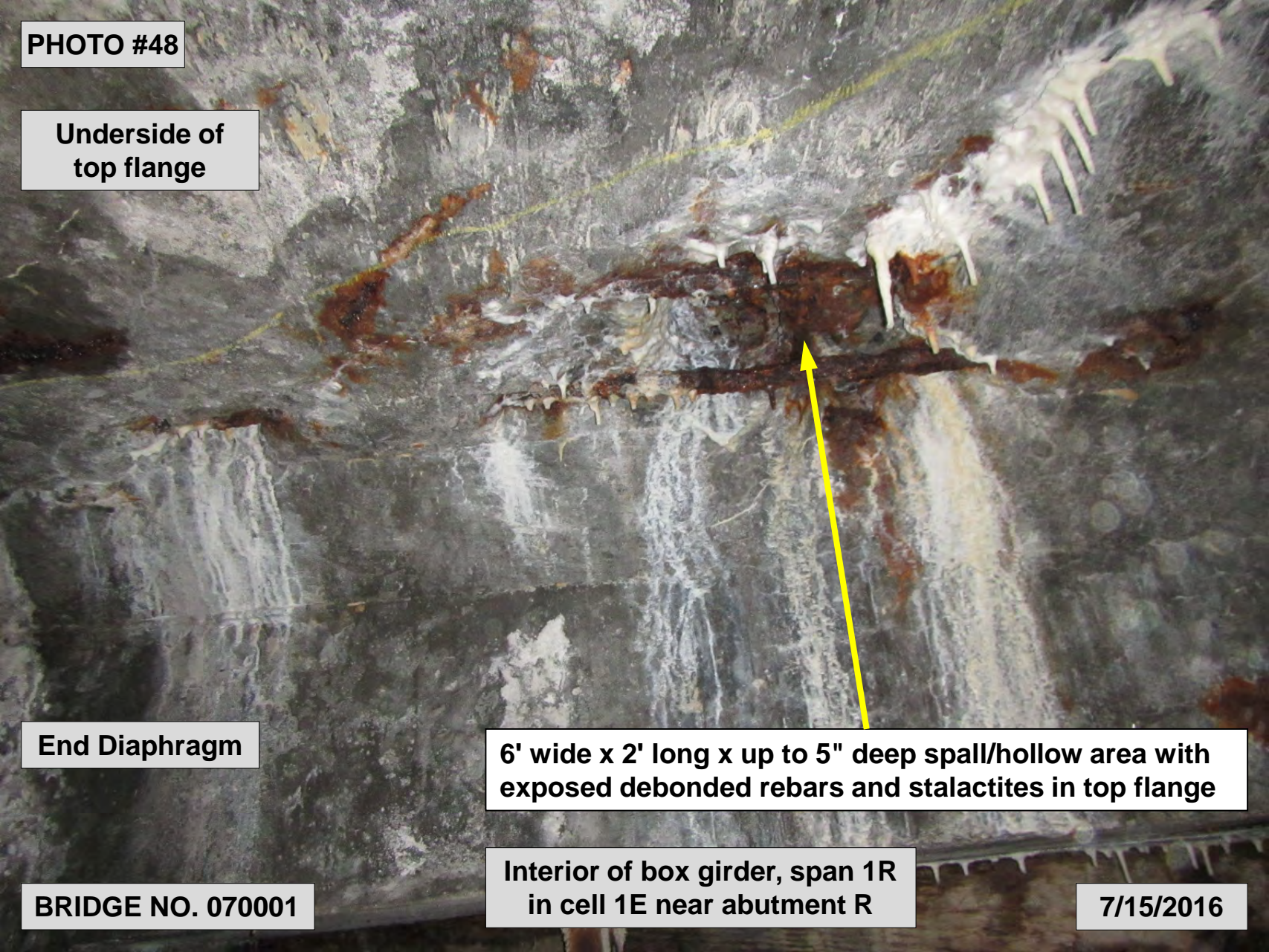
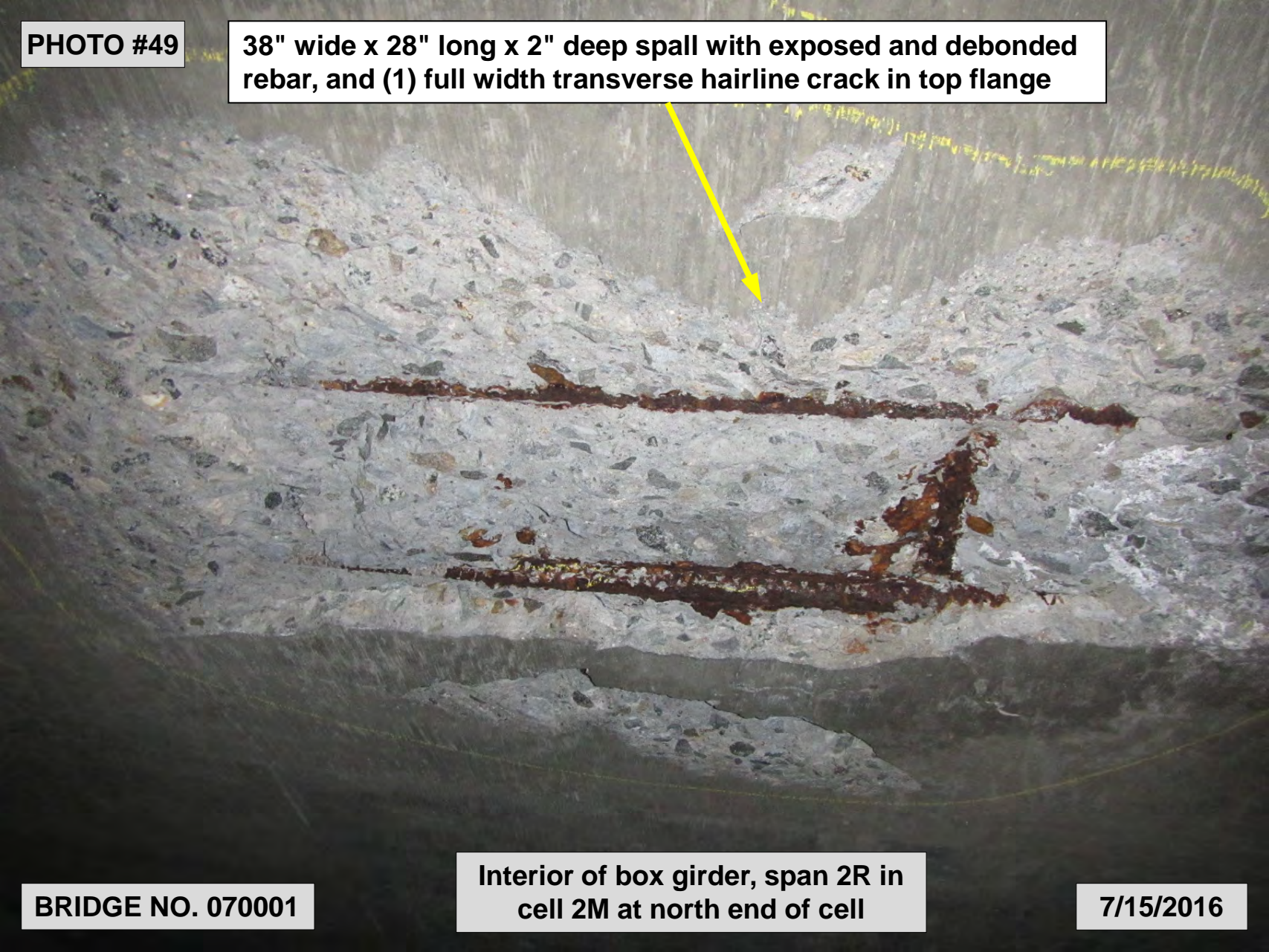


PHOTO #49

38" wide x 28" long x 2" deep spall with exposed and debonded rebar, and (1) full width transverse hairline crack in top flange



BRIDGE NO. 070001

**Interior of box girder, span 2R in
cell 2M at north end of cell**

7/15/2016

PHOTO #50

Diagonal hairline cracks up to full height with efflorescence

Heavy dusting on top and bottom flanges (accumulation of concrete material powdery dust) x up to 4' wide x full length (similar at random locations)

BRIDGE NO. 070001

Interior of box girder, span 3R in cell 1W

7/15/2016

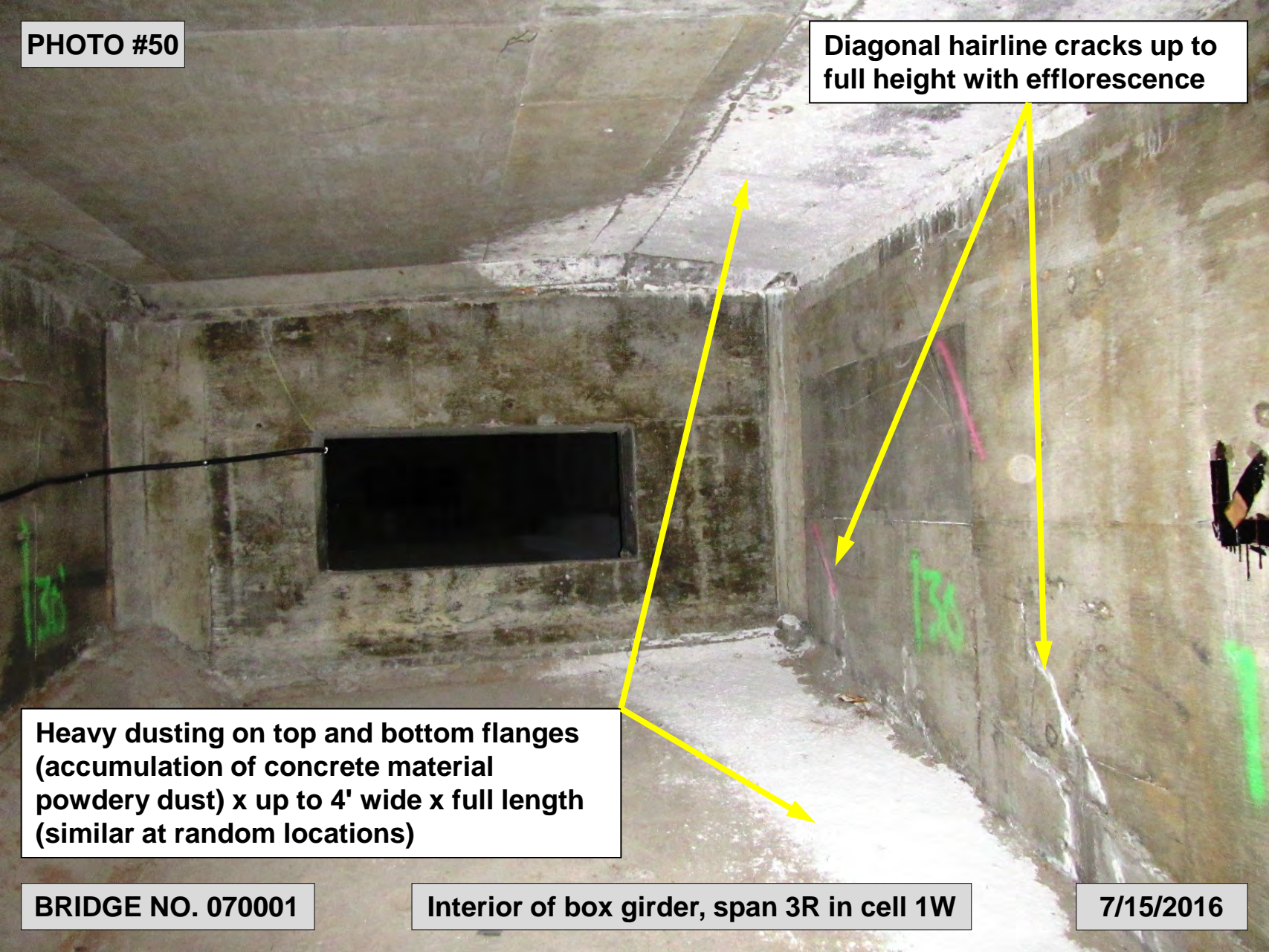
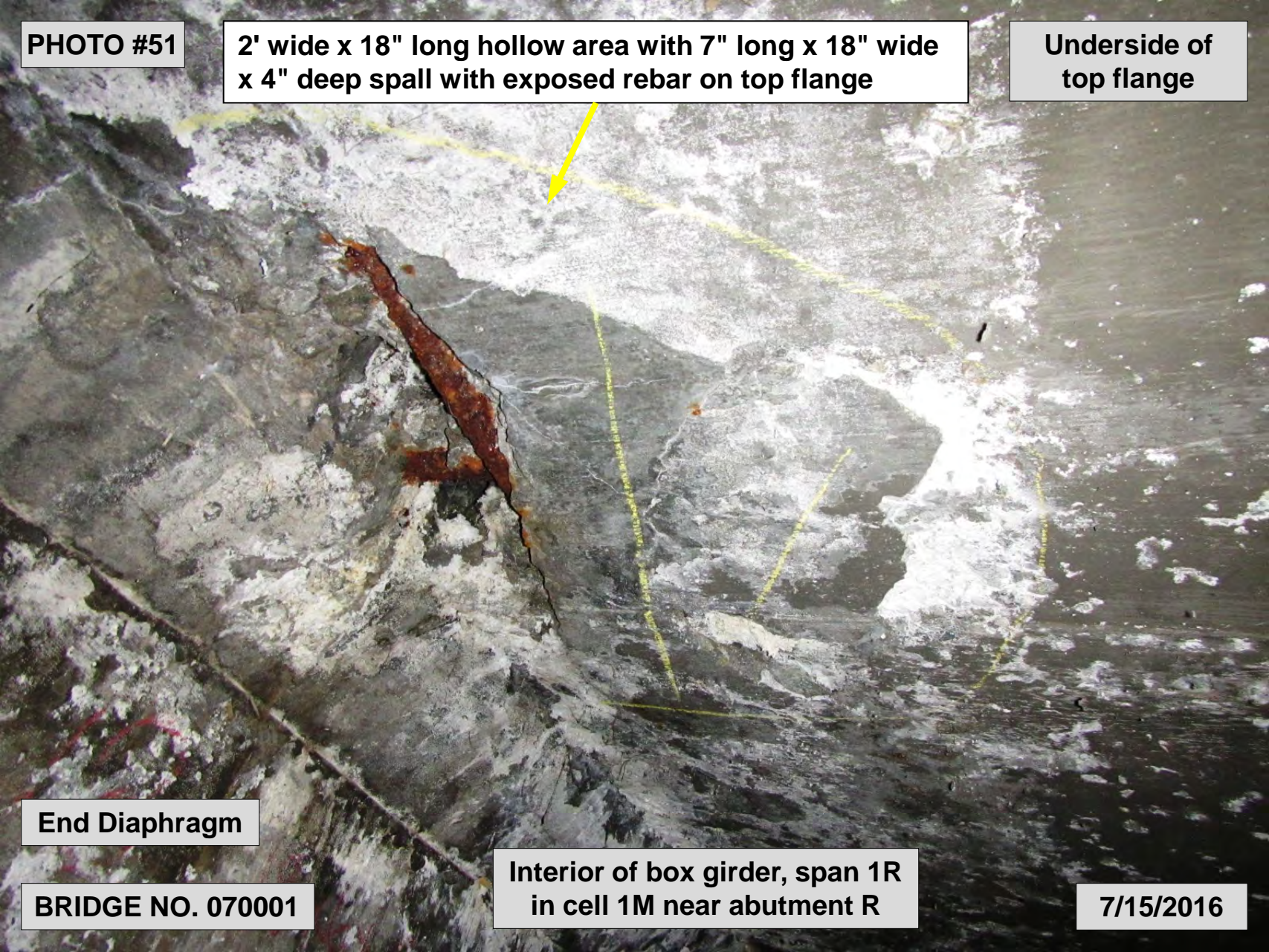


PHOTO #51

2' wide x 18" long hollow area with 7" long x 18" wide x 4" deep spall with exposed rebar on top flange

Underside of top flange



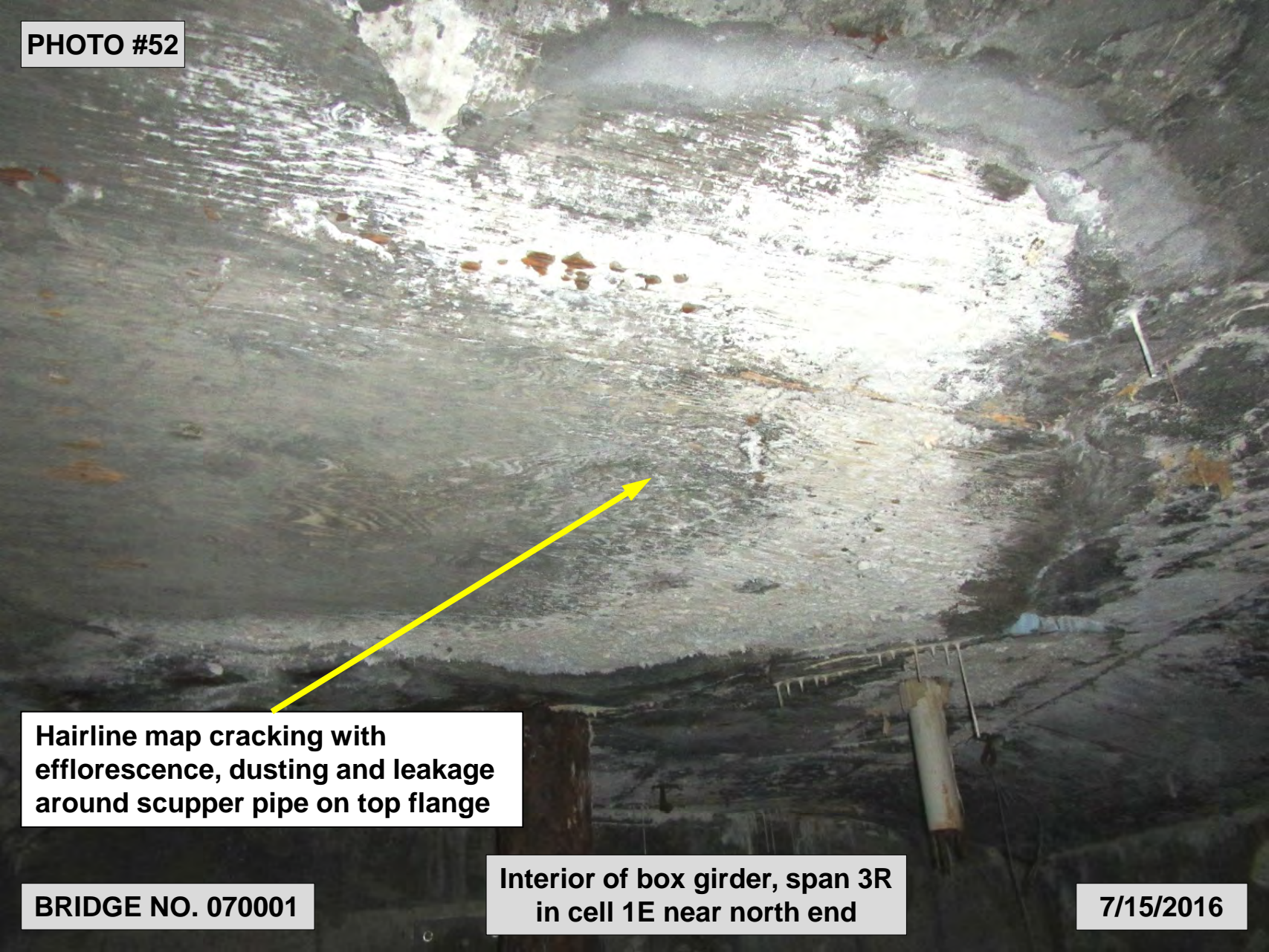
End Diaphragm

BRIDGE NO. 070001

**Interior of box girder, span 1R
in cell 1M near abutment R**

7/15/2016

PHOTO #52



Hairline map cracking with efflorescence, dusting and leakage around scupper pipe on top flange

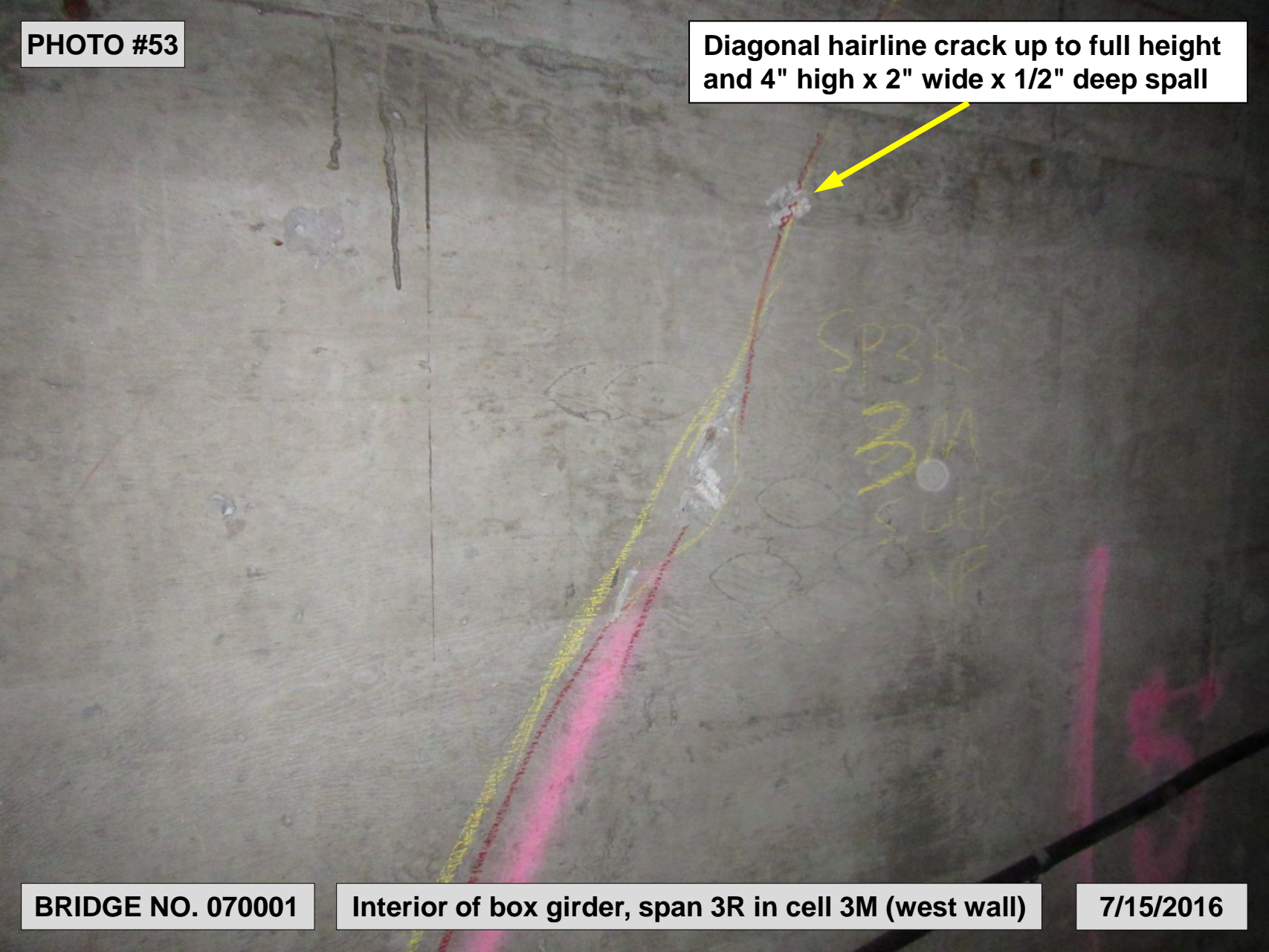
BRIDGE NO. 070001

**Interior of box girder, span 3R
in cell 1E near north end**

7/15/2016

PHOTO #53

Diagonal hairline crack up to full height and 4" high x 2" wide x 1/2" deep spall



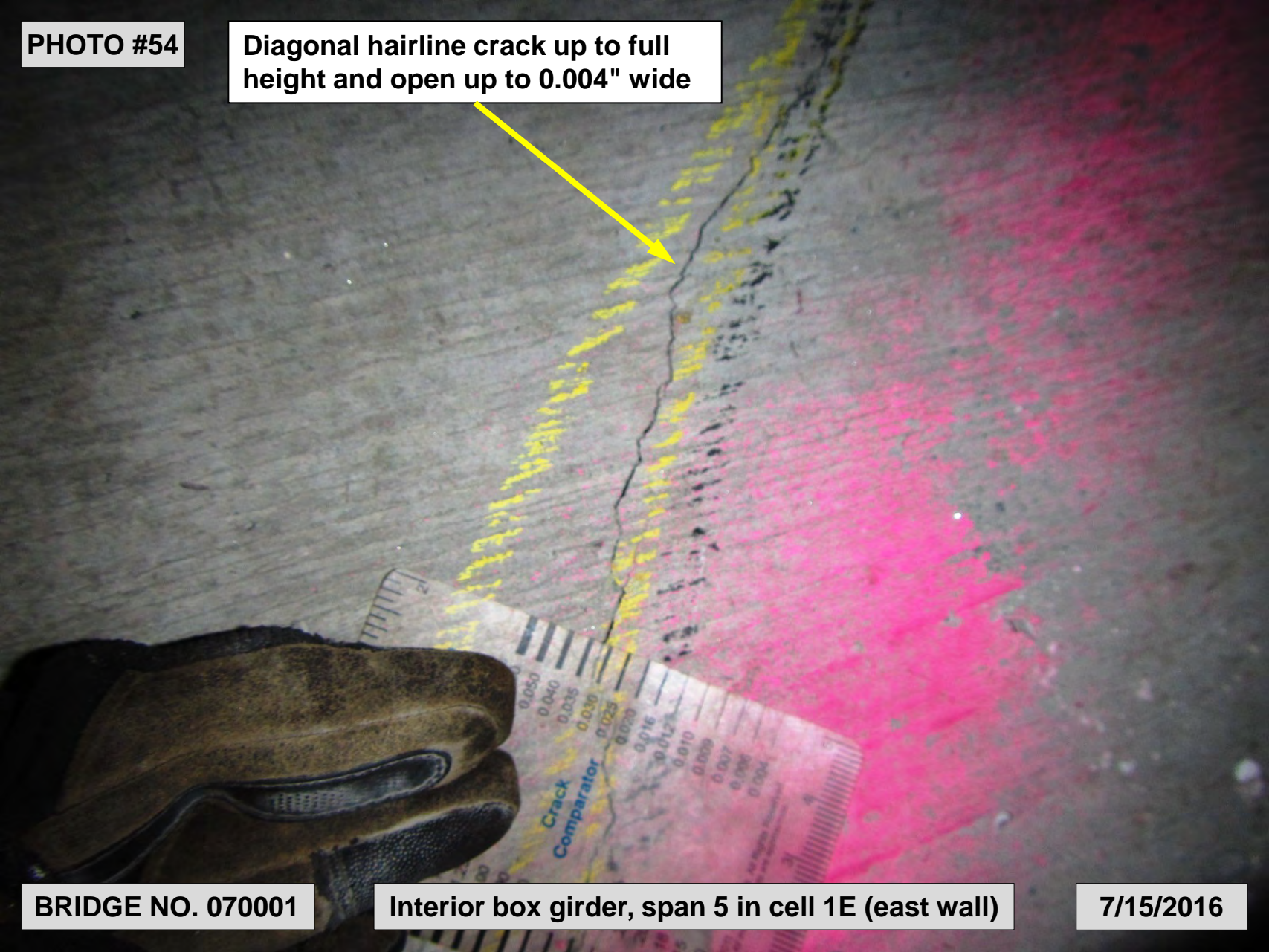
BRIDGE NO. 070001

Interior of box girder, span 3R in cell 3M (west wall)

7/15/2016

PHOTO #54

Diagonal hairline crack up to full height and open up to 0.004" wide



BRIDGE NO. 070001

Interior box girder, span 5 in cell 1E (east wall)

7/15/2016

PHOTO #55



Full width x 10' long hollow area with 10 square feet spalled up to 3" deep with exposed longitudinal rebar. Also note dampness

BRIDGE NO. 070001

Interior of box girder, Span 3R in cell 4E north end

7/15/2016

PHOTO #56



Full width x 5' long x 2" deep spall with exposed debonded rebar with up to 90% section loss in bottom flange. See photo 57 for close-up

BRIDGE NO. 070001

Interior of box girder, span 3R in cell 1M north end

7/15/2016

PHOTO #57



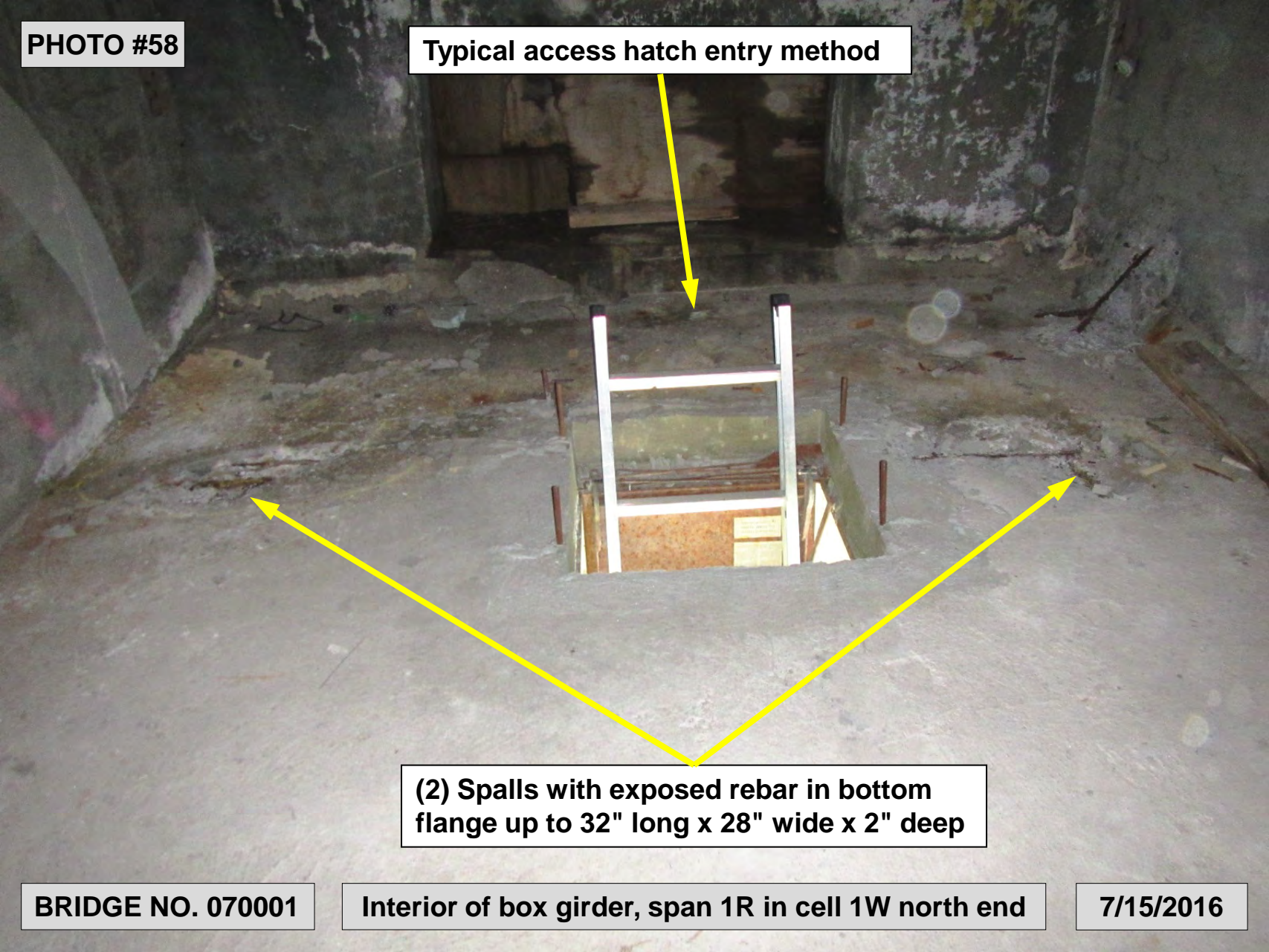
BRIDGE NO. 070001

**Same as photo 57 showing up to
90% section loss on exposed rebar**

7/15/2016

PHOTO #58

Typical access hatch entry method



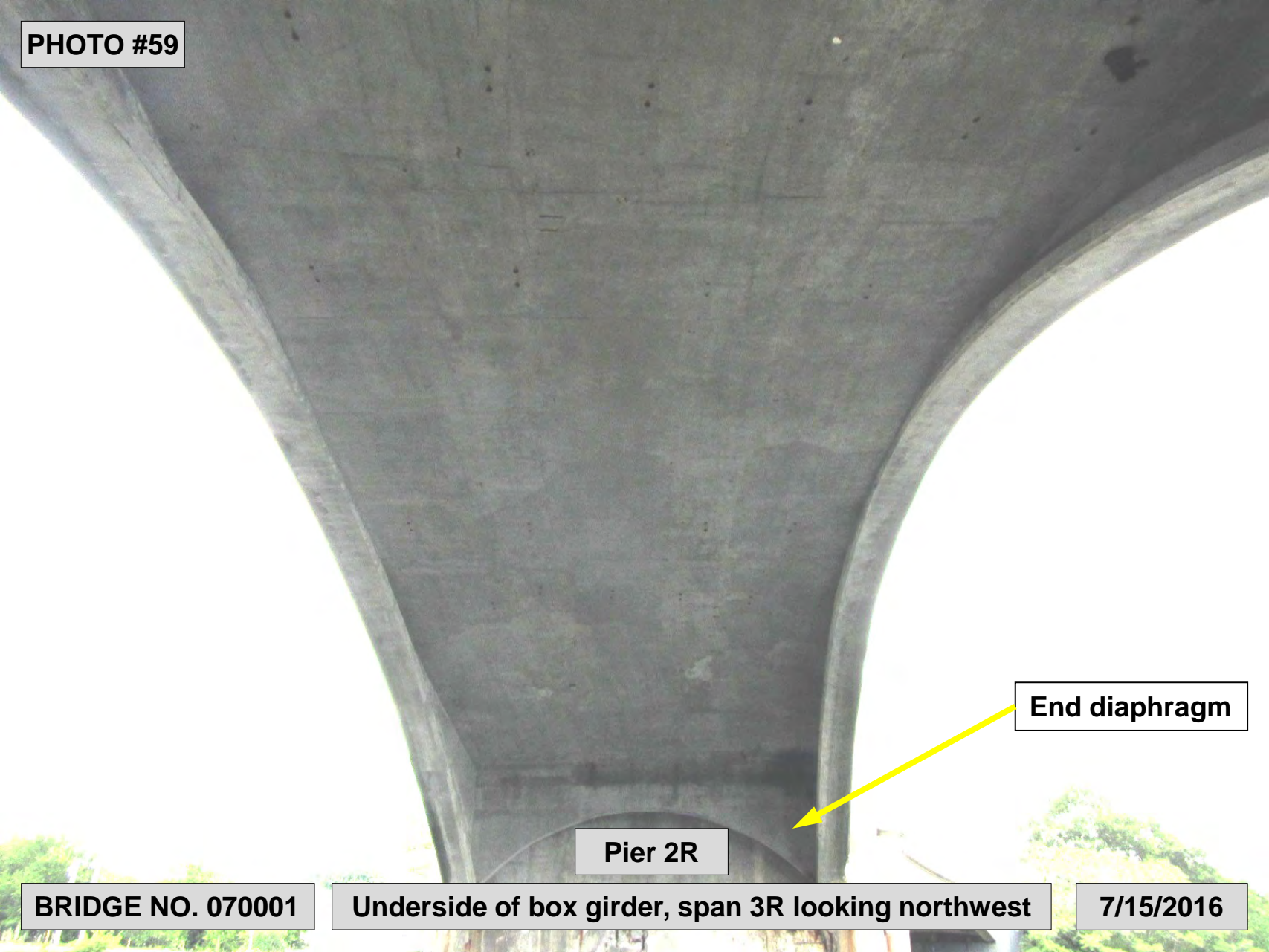
(2) Spalls with exposed rebar in bottom flange up to 32" long x 28" wide x 2" deep

BRIDGE NO. 070001

Interior of box girder, span 1R in cell 1W north end

7/15/2016

PHOTO #59



End diaphragm



Pier 2R

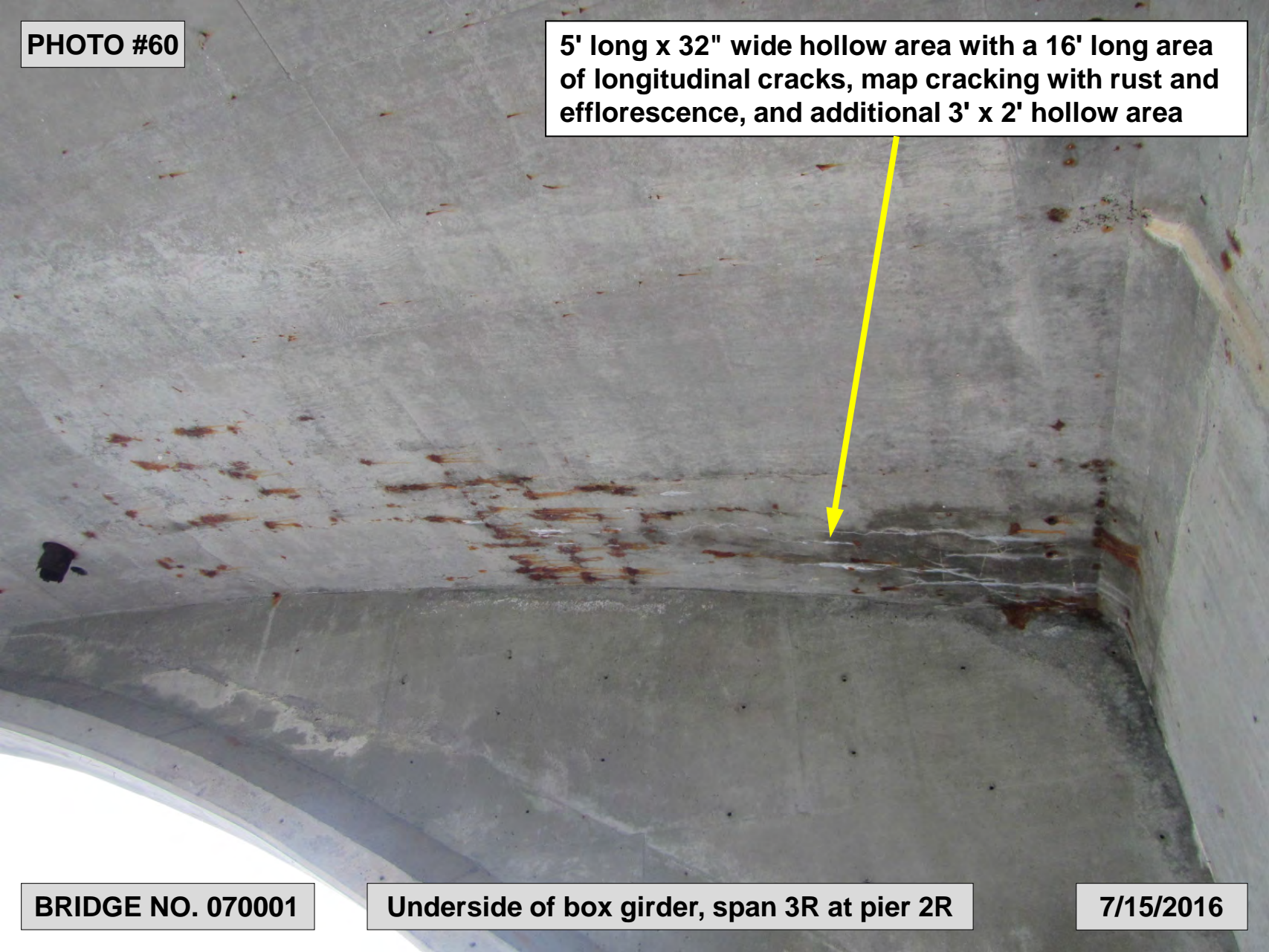
BRIDGE NO. 070001

Underside of box girder, span 3R looking northwest

7/15/2016

PHOTO #60

5' long x 32" wide hollow area with a 16' long area of longitudinal cracks, map cracking with rust and efflorescence, and additional 3' x 2' hollow area



BRIDGE NO. 070001

Underside of box girder, span 3R at pier 2R

7/15/2016

PHOTO #61

**Minor moisture, rust stains,
hairline cracks with efflorescence**



**Underside of box girder, span 1R at
the northeast corner access hatch**

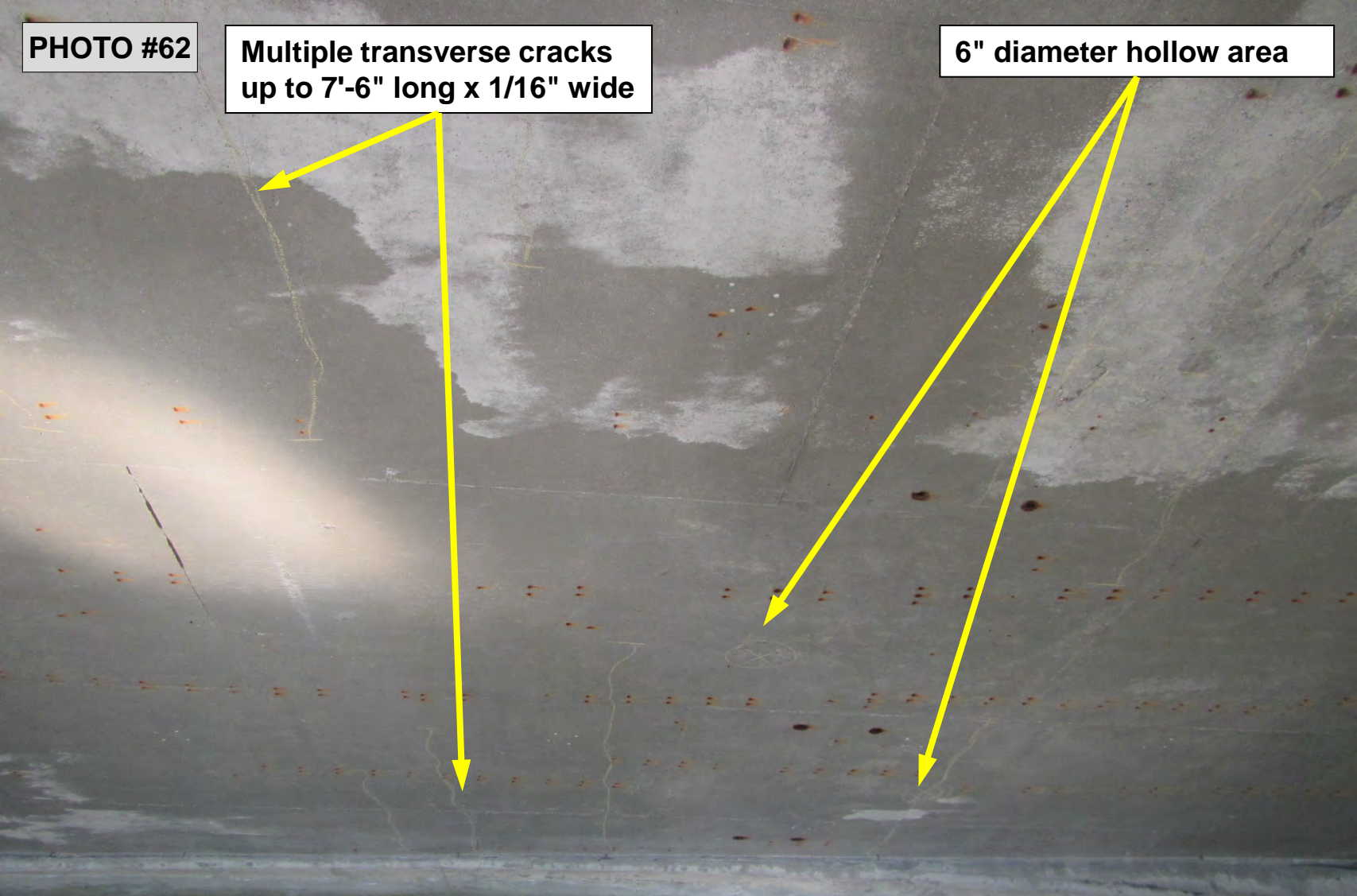
BRIDGE NO. 070001

7/15/2016

PHOTO #62

**Multiple transverse cracks
up to 7'-6" long x 1/16" wide**

6" diameter hollow area



BRIDGE NO. 070001

**Underside of box girder, span 1R
near mid-span, looking west**

7/15/2016

PHOTO #63

**Transverse hairline cracks
with light efflorescence**

**6" long x 5" wide x 1/2" deep
spall with exposed rebar**

BRIDGE NO. 070001

Underside of box girder, span 1R near mid-span

7/15/2016

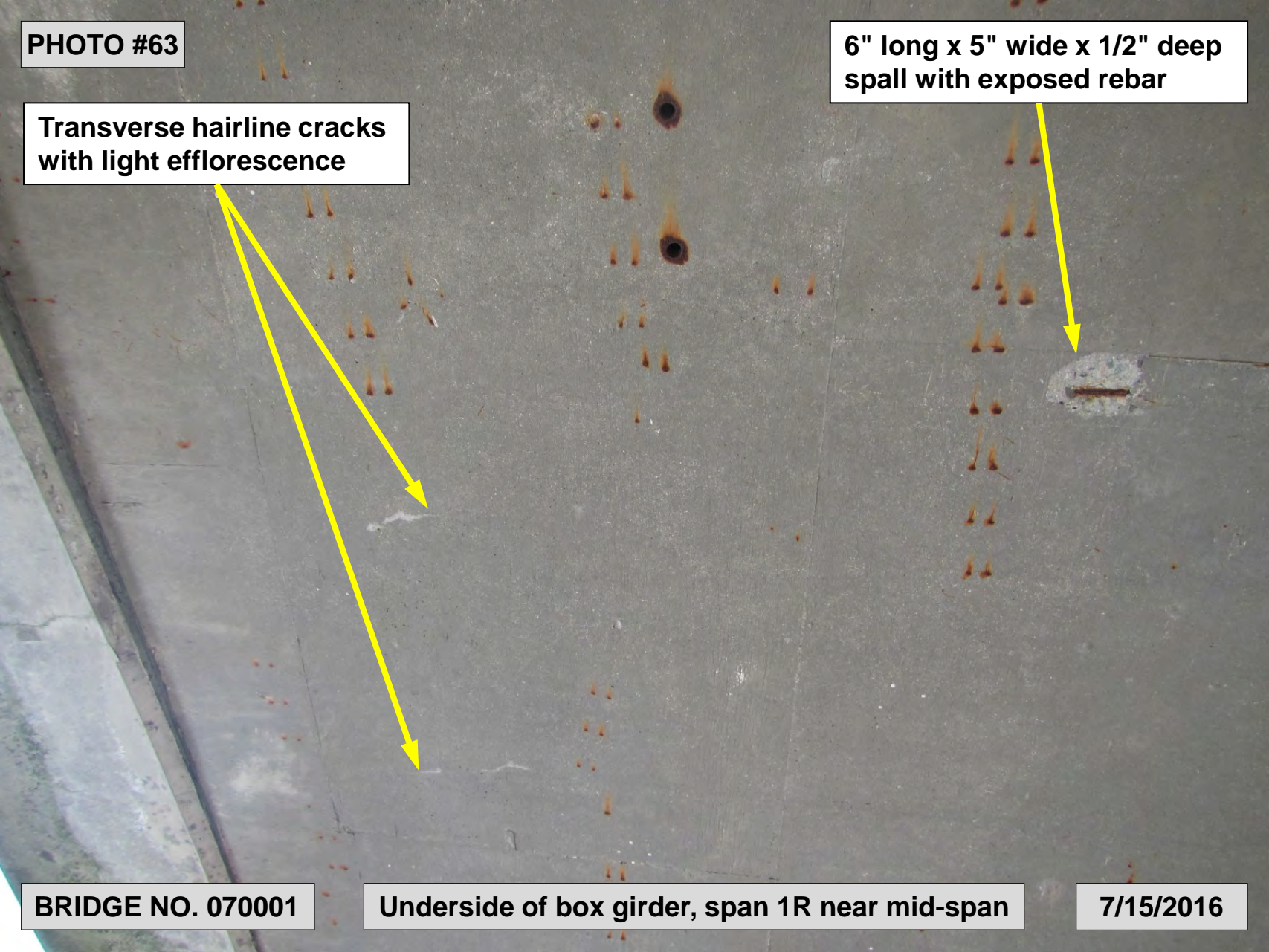
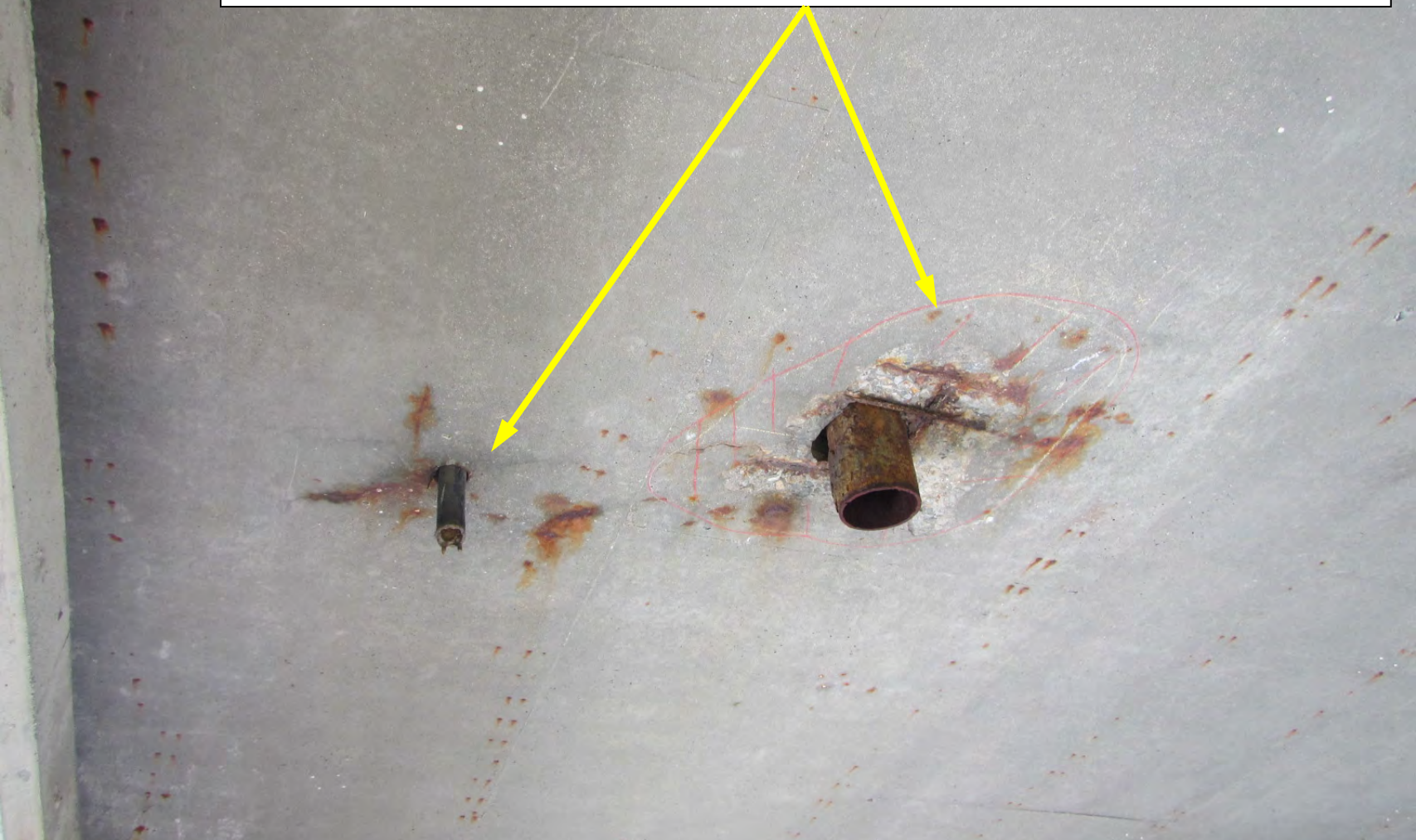


PHOTO #64

30" long x 30" wide hollow area with a 18" long x 18" wide x 2" deep spall with exposed rebar (one debonded with up to 40% section loss) at scupper pipe. Additional 12" long x 12" wide hollow area at second drainpipe



BRIDGE NO. 070001

Underside of box girder, span 1R near pier 1R

7/15/2016

PHOTO #65

20' wide x 4' long hollow area with rust stains and efflorescence

1' long x 6" wide x 1" deep spall

Pier 2R diaphragm

BRIDGE NO. 070001

Underside of box girder, span 3R at pier 2R

7/15/2016

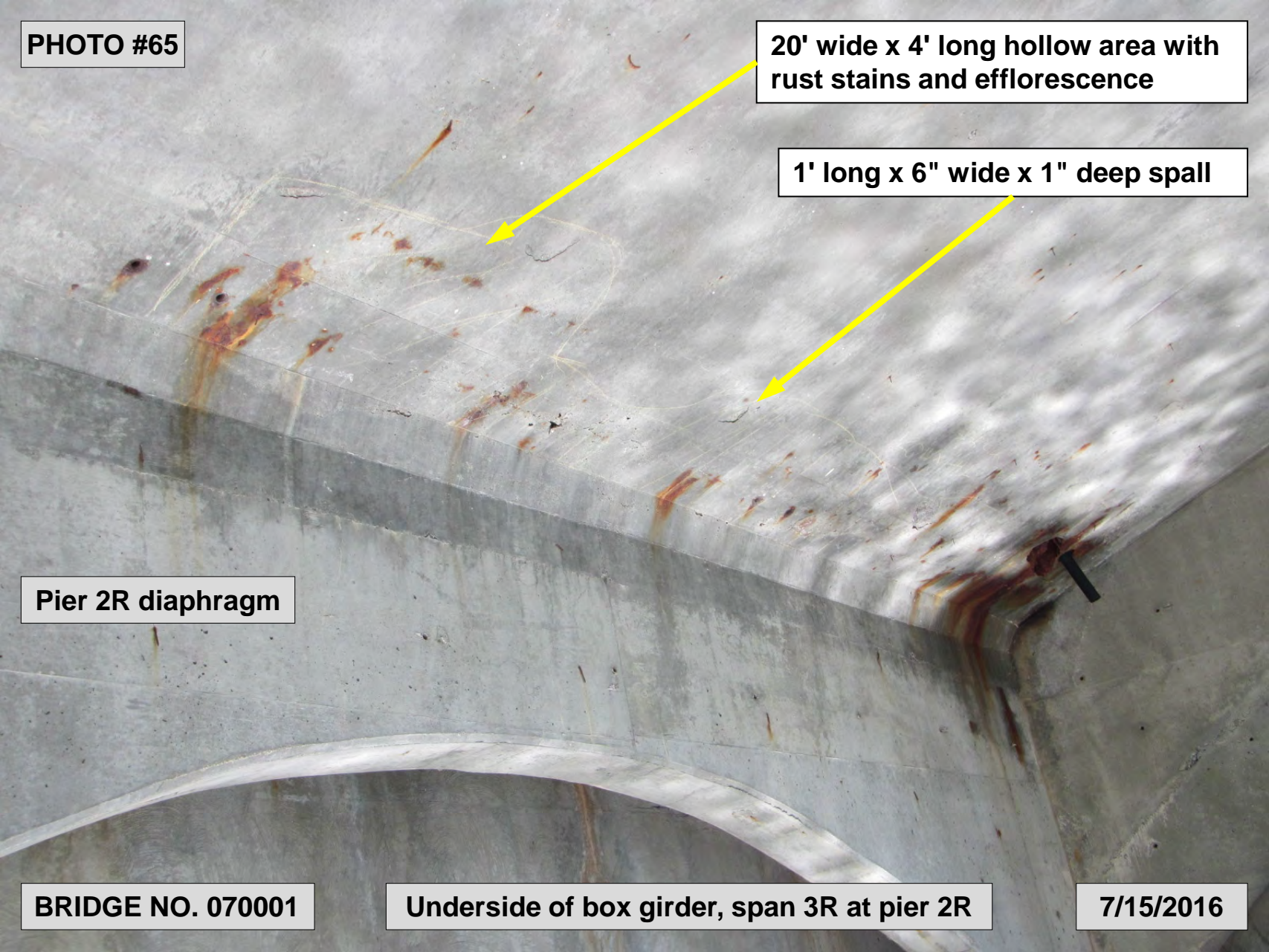
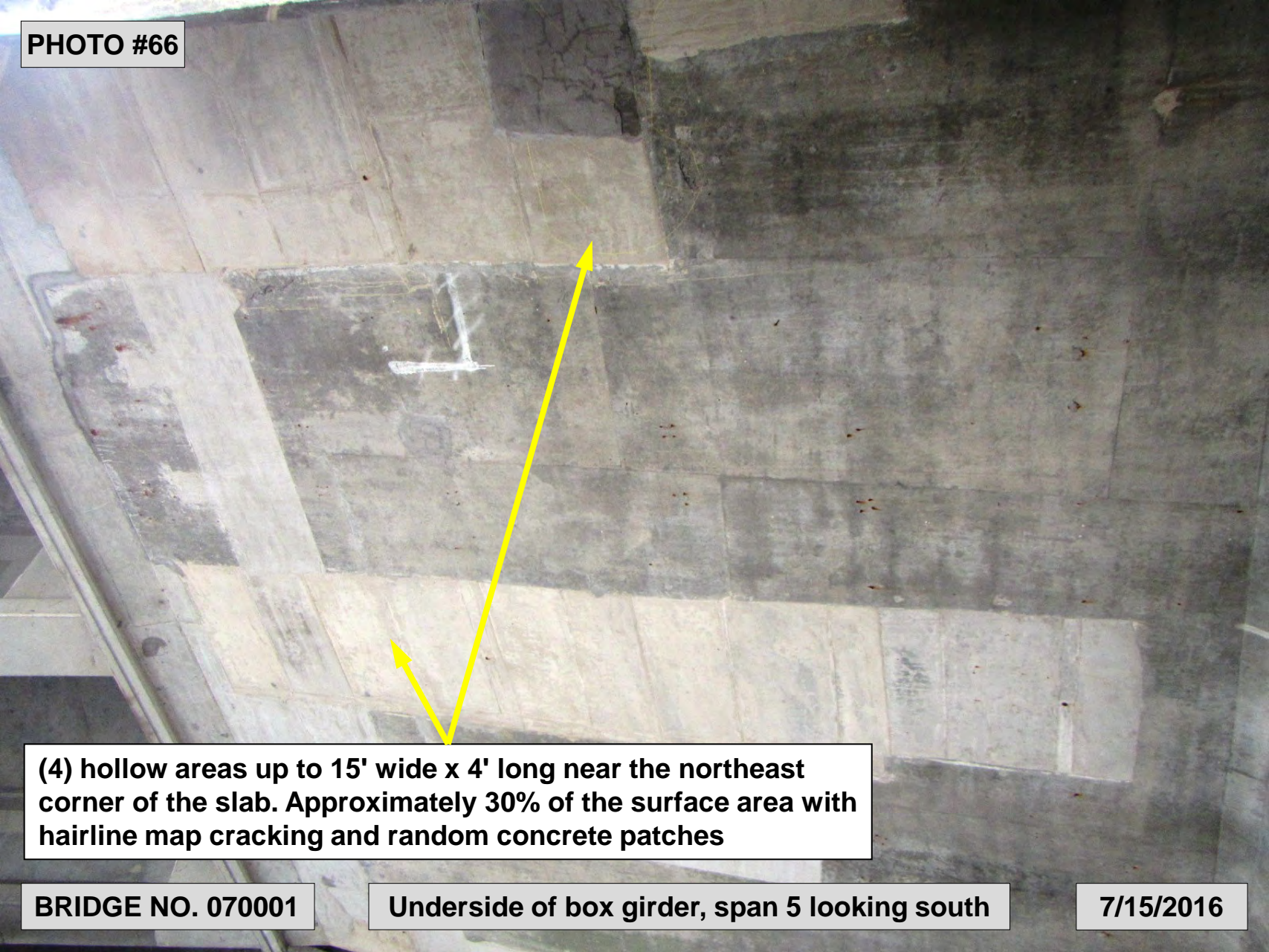


PHOTO #66



(4) hollow areas up to 15' wide x 4' long near the northeast corner of the slab. Approximately 30% of the surface area with hairline map cracking and random concrete patches

BRIDGE NO. 070001

Underside of box girder, span 5 looking south

7/15/2016

PHOTO #67



(4) hollow areas up to full height x up to 3' wide area next to Girder 'A1'; a 12" high by 12" wide area at the top of the East face, and a 3' high by 2' wide hollow area adjacent to Girder 'AA'. Note leakage stains and rust stains

BRIDGE NO. 070001

East face of box girder, span 5 near pier 3R

7/15/2016

PHOTO #68

Light rust with peeling and chalking of paint at scattered locations

K

A

BRIDGE NO. 070001

Underside of steel girders span 7, looking northwest

7/15/2016

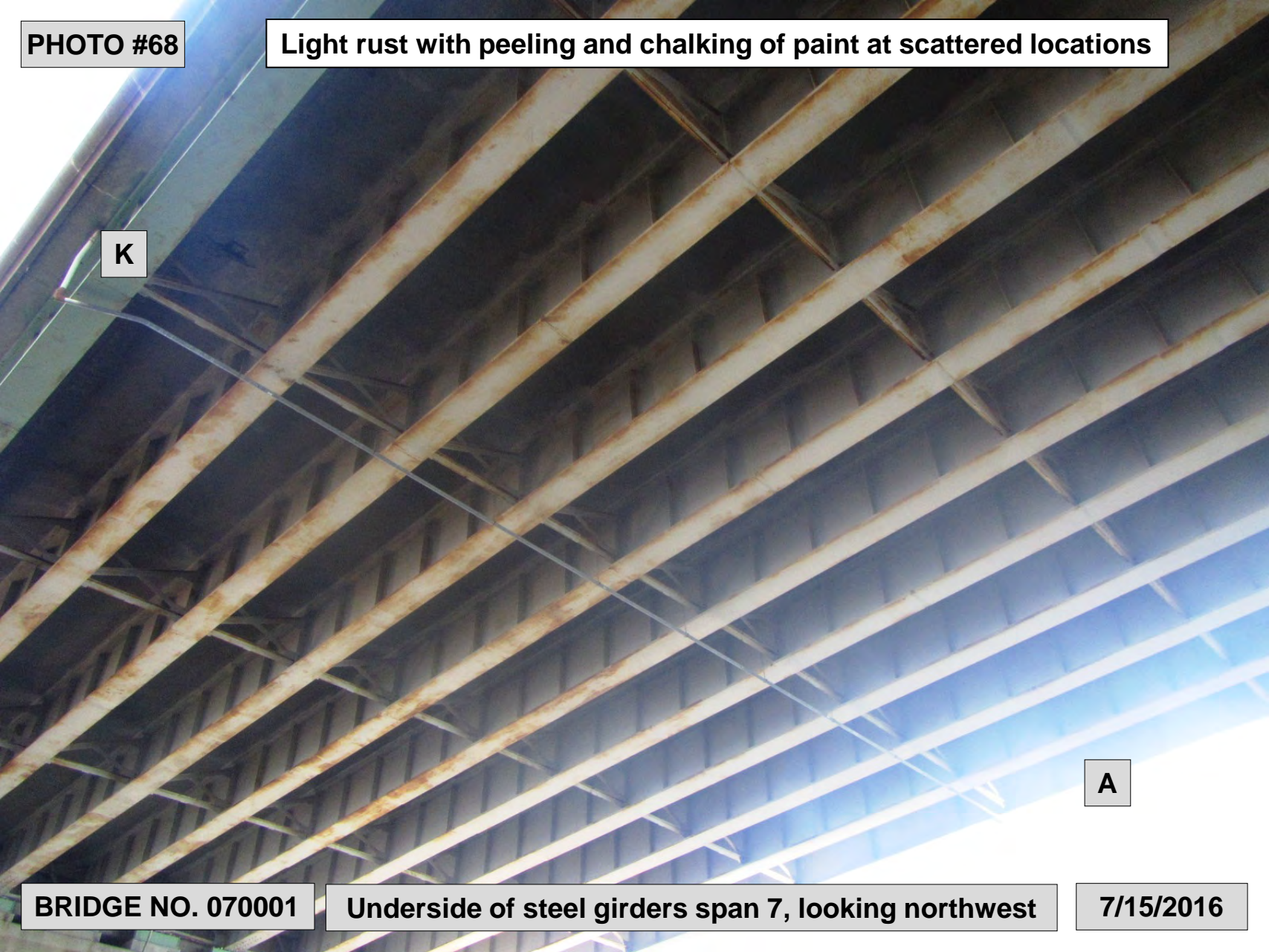
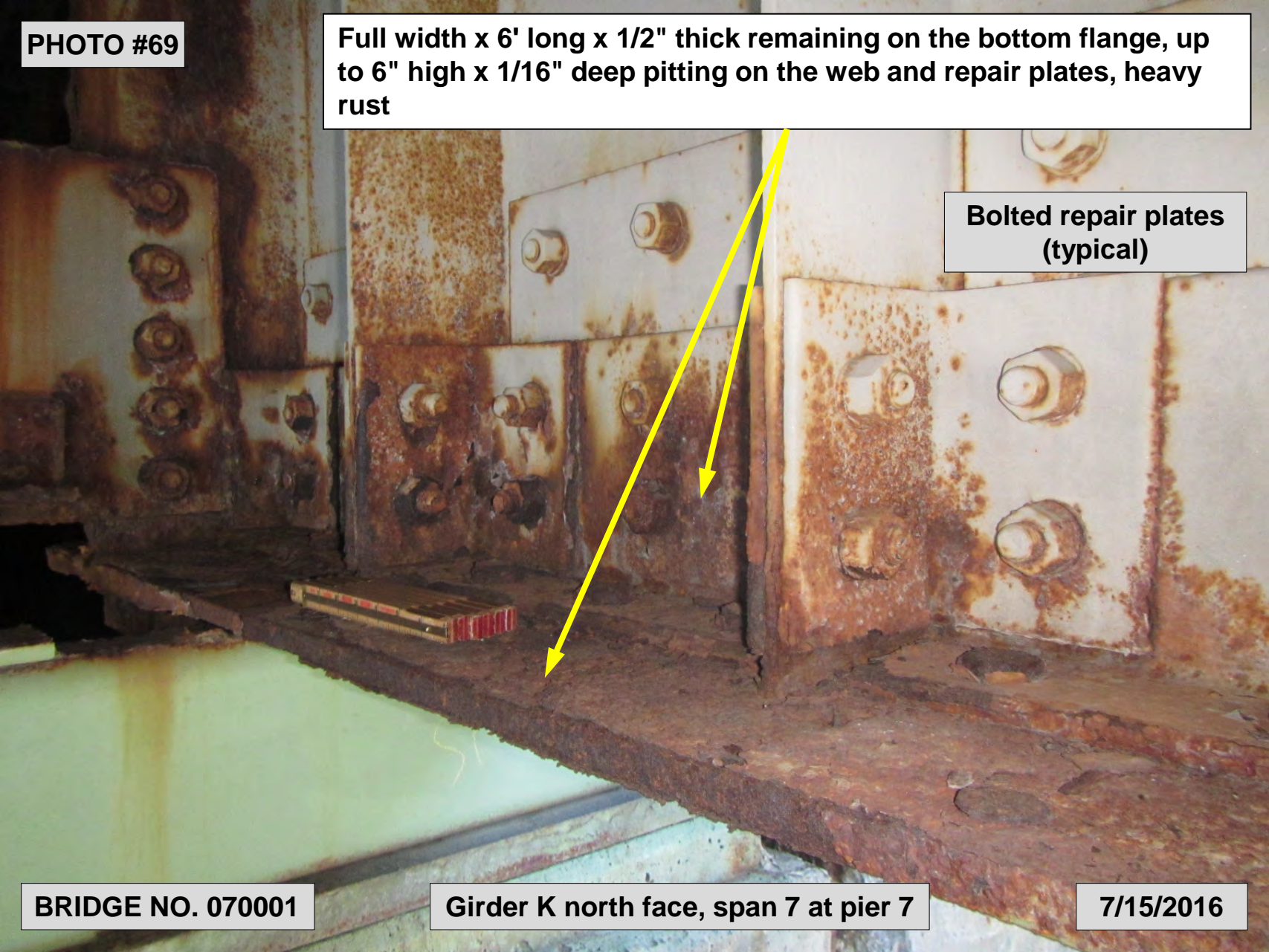


PHOTO #69

Full width x 6' long x 1/2" thick remaining on the bottom flange, up to 6" high x 1/16" deep pitting on the web and repair plates, heavy rust

**Bolted repair plates
(typical)**

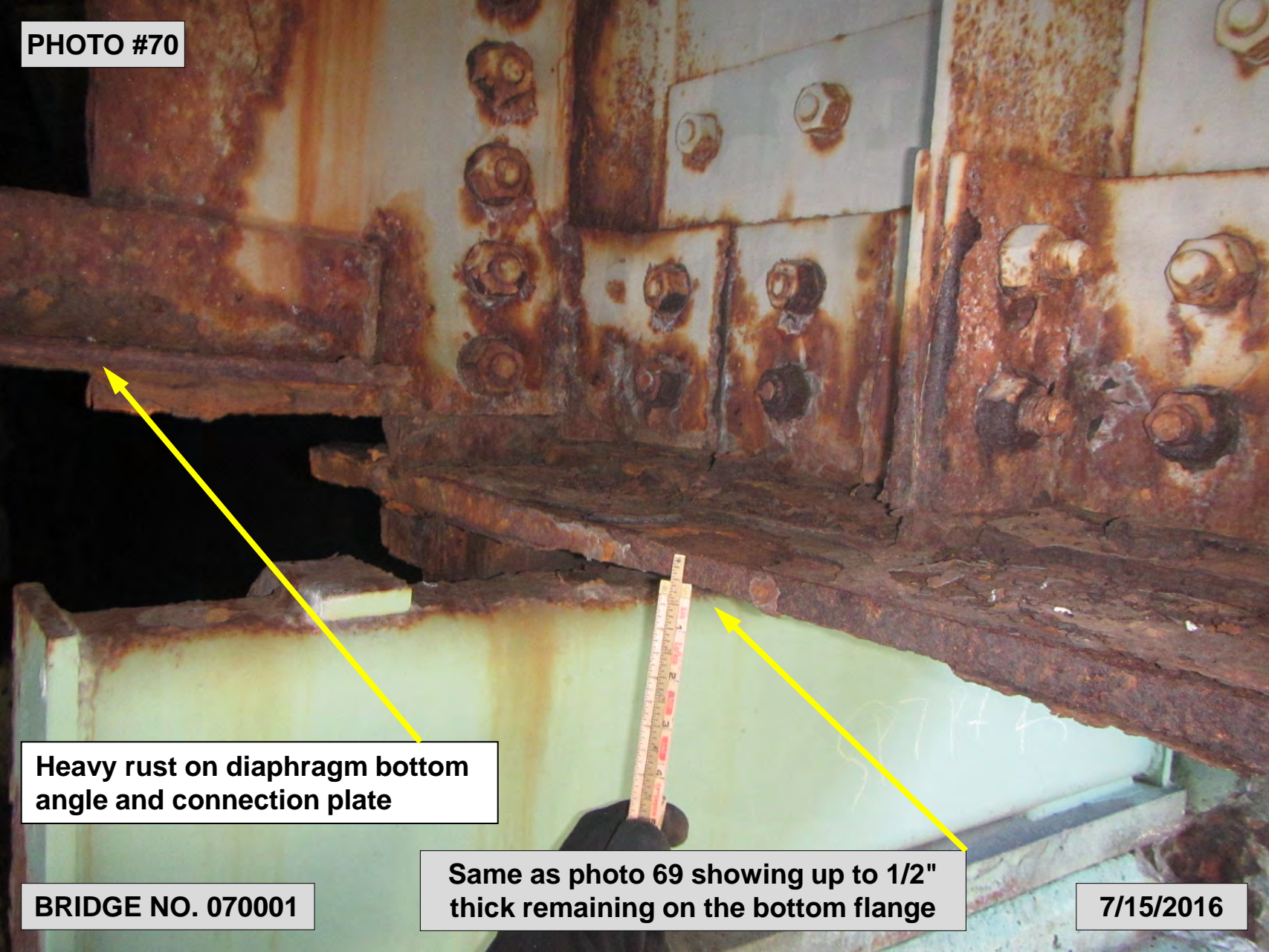


BRIDGE NO. 070001

Girder K north face, span 7 at pier 7

7/15/2016

PHOTO #70



Heavy rust on diaphragm bottom angle and connection plate

BRIDGE NO. 070001

Same as photo 69 showing up to 1/2" thick remaining on the bottom flange

7/15/2016

PHOTO #71

Typical bolted repair plates on bottom flange and web with light to heavy rust

See photo 72

BRIDGE NO. 070001

Girder B north face, span 7 at pier 7

7/15/2016

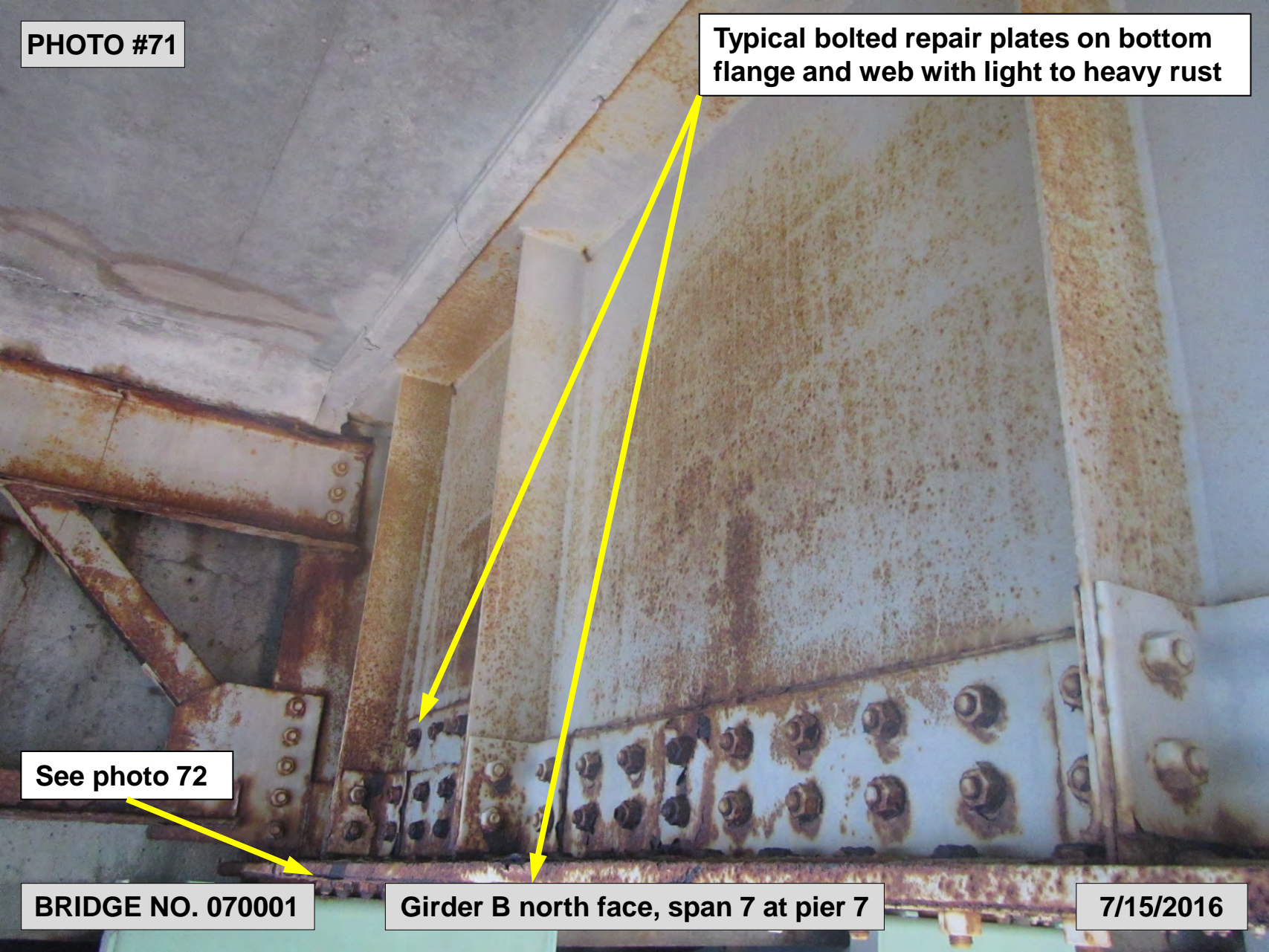
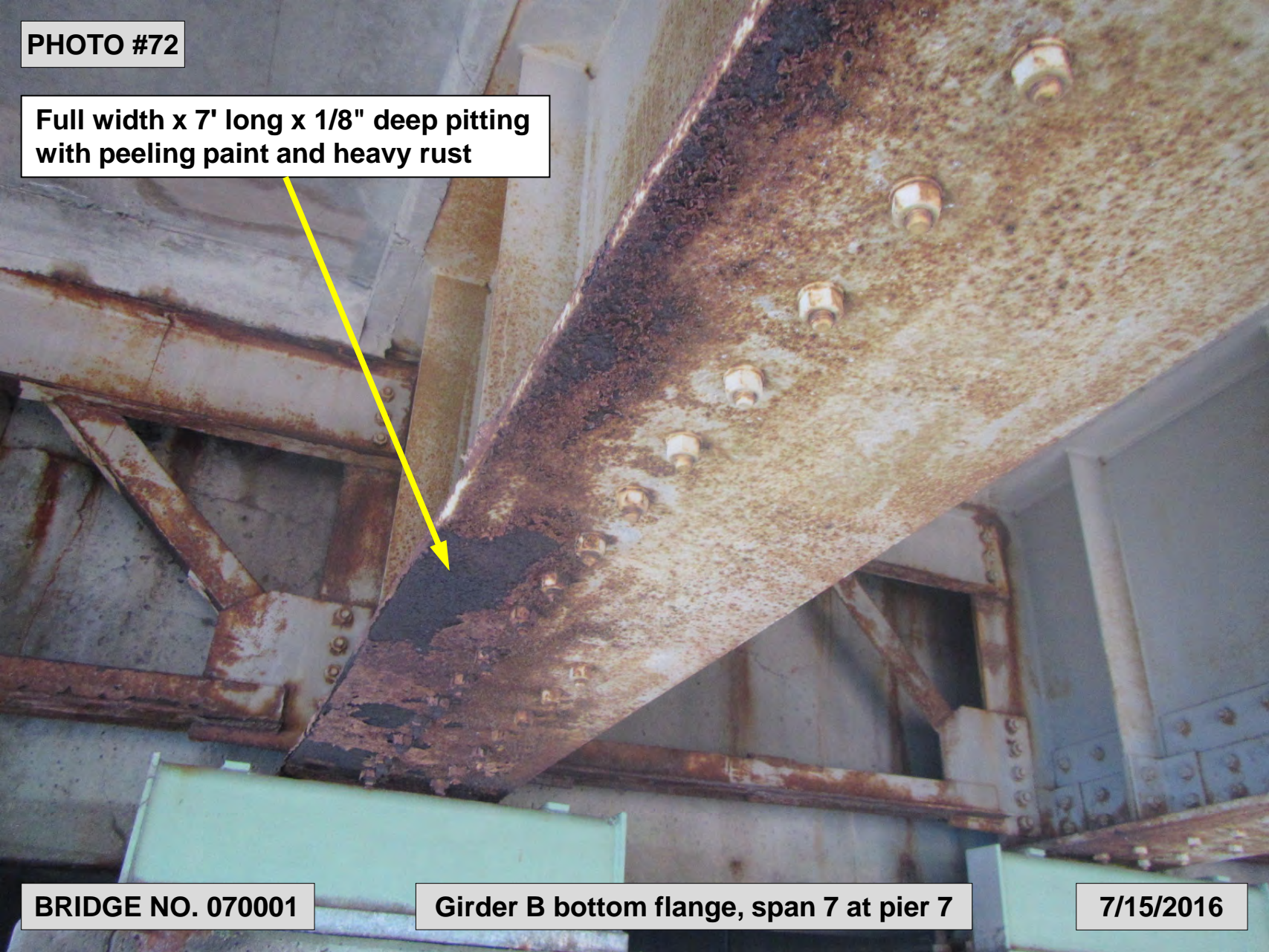


PHOTO #72

**Full width x 7' long x 1/8" deep pitting
with peeling paint and heavy rust**



BRIDGE NO. 070001

Girder B bottom flange, span 7 at pier 7

7/15/2016

PHOTO #73

6" long x 5" high x 1/8"
deep web section loss



Full width x 5' long x up to 3/4"
thick remaining on bottom flange

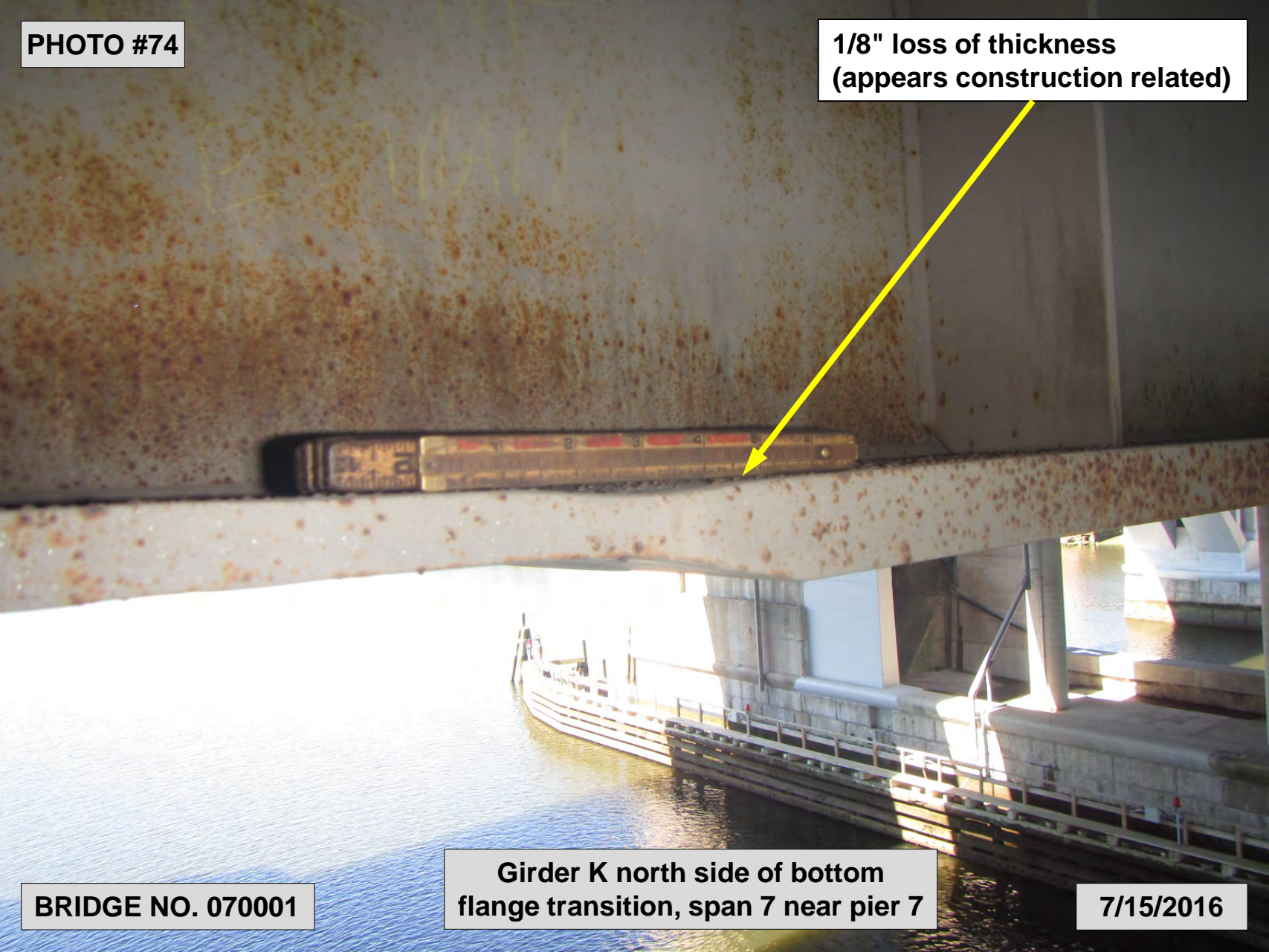
BRIDGE NO. 070001

Girder A south face, span 7 at pier 6

7/15/2016

PHOTO #74

**1/8" loss of thickness
(appears construction related)**



BRIDGE NO. 070001

**Girder K north side of bottom
flange transition, span 7 near pier 7**

7/15/2016

PHOTO #75

**Newer paint on
fascia (typical)**



**Up to 1/4"± waviness of the bottom
flange (similar at isolated locations)**

BRIDGE NO. 070001

Girder A north face, span 7 near pier 7

7/15/2016

PHOTO #76

SPAN 7

Newer paint on fascia (typical)

Navigation light off during daytime inspection



BRIDGE NO. 070001

Girder A north face, span 7 mid-span region

7/15/2016

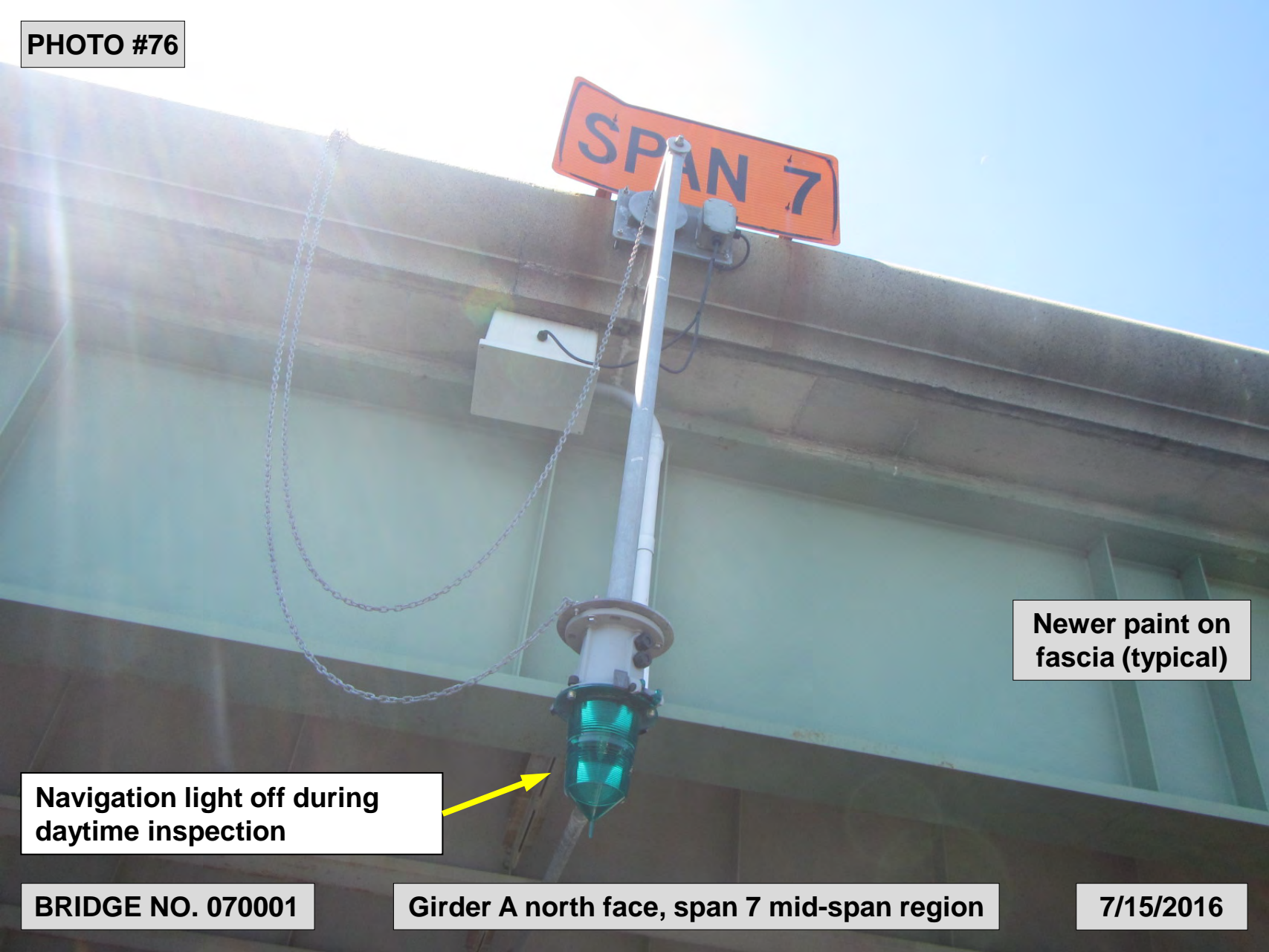


PHOTO #77

Up to 3/8" thick pack rust between bearing stiffener and diaphragm connection plate (similar at random end diaphragm locations)

Heavy rust on diaphragm channel and angle with up to knife edge thickness remaining on flanges

BRIDGE NO. 070001

Span 7, bay A at pier 6

7/15/2016

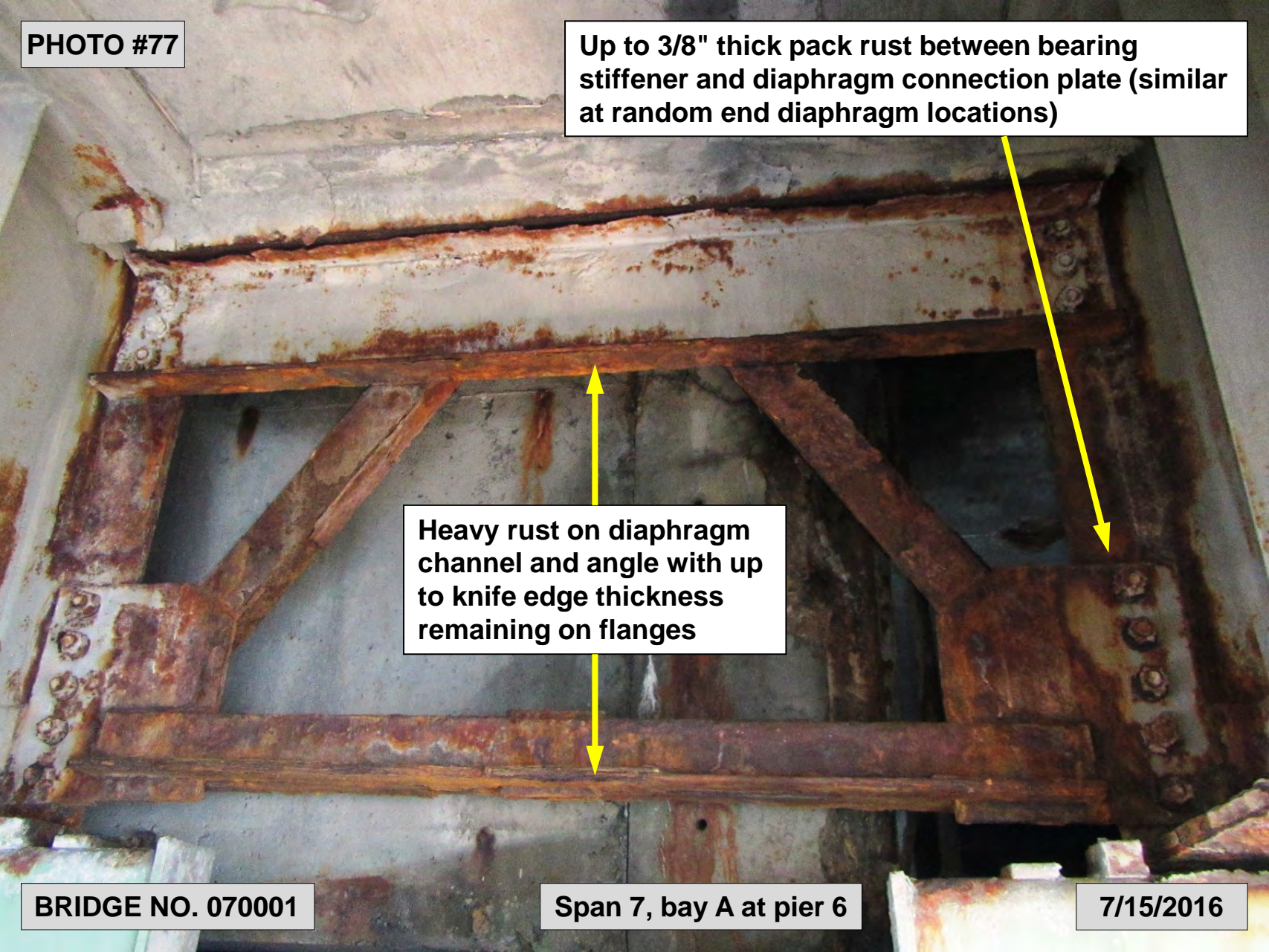


PHOTO #78

Missing connection bolt



Girder F north face, span 7 at the first interior diaphragm from pier 7

BRIDGE NO. 070001

7/15/2016

PHOTO #79

North Arch

A

D

BRIDGE NO. 070001

Underside of span 5, looking south

7/15/2016

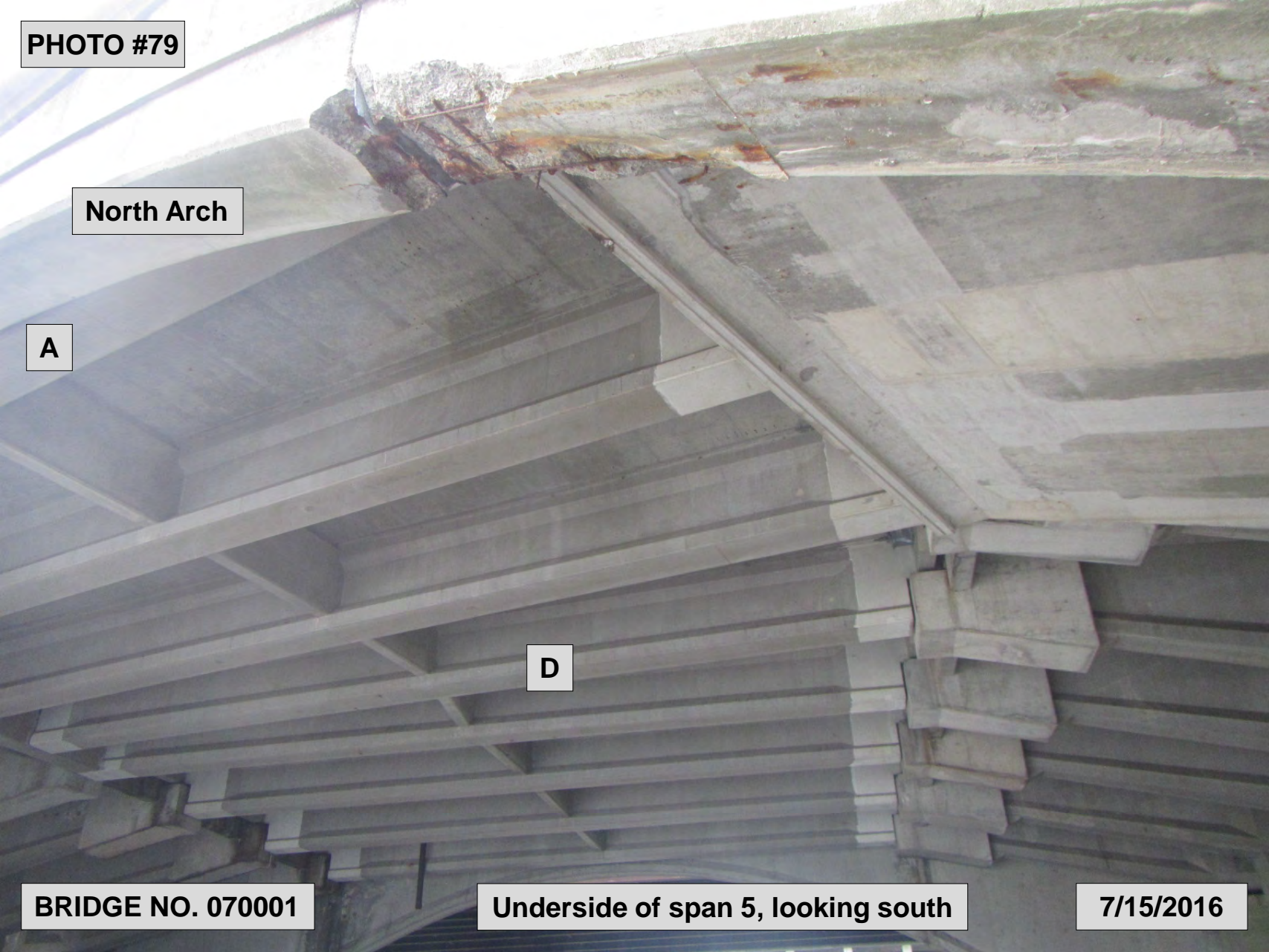


PHOTO #80

North Arch

A

F

South Arch

BRIDGE NO. 070001

Underside of span 8, looking southwest

7/15/2016



PHOTO #81



A

J

BRIDGE NO. 070001

Underside of span 16, looking east

7/15/2016

PHOTO #82

A

E

BRIDGE NO. 070001

Underside of span 18, looking southwest

7/15/2016



PHOTO #83

Typical concrete protective coat at girder end

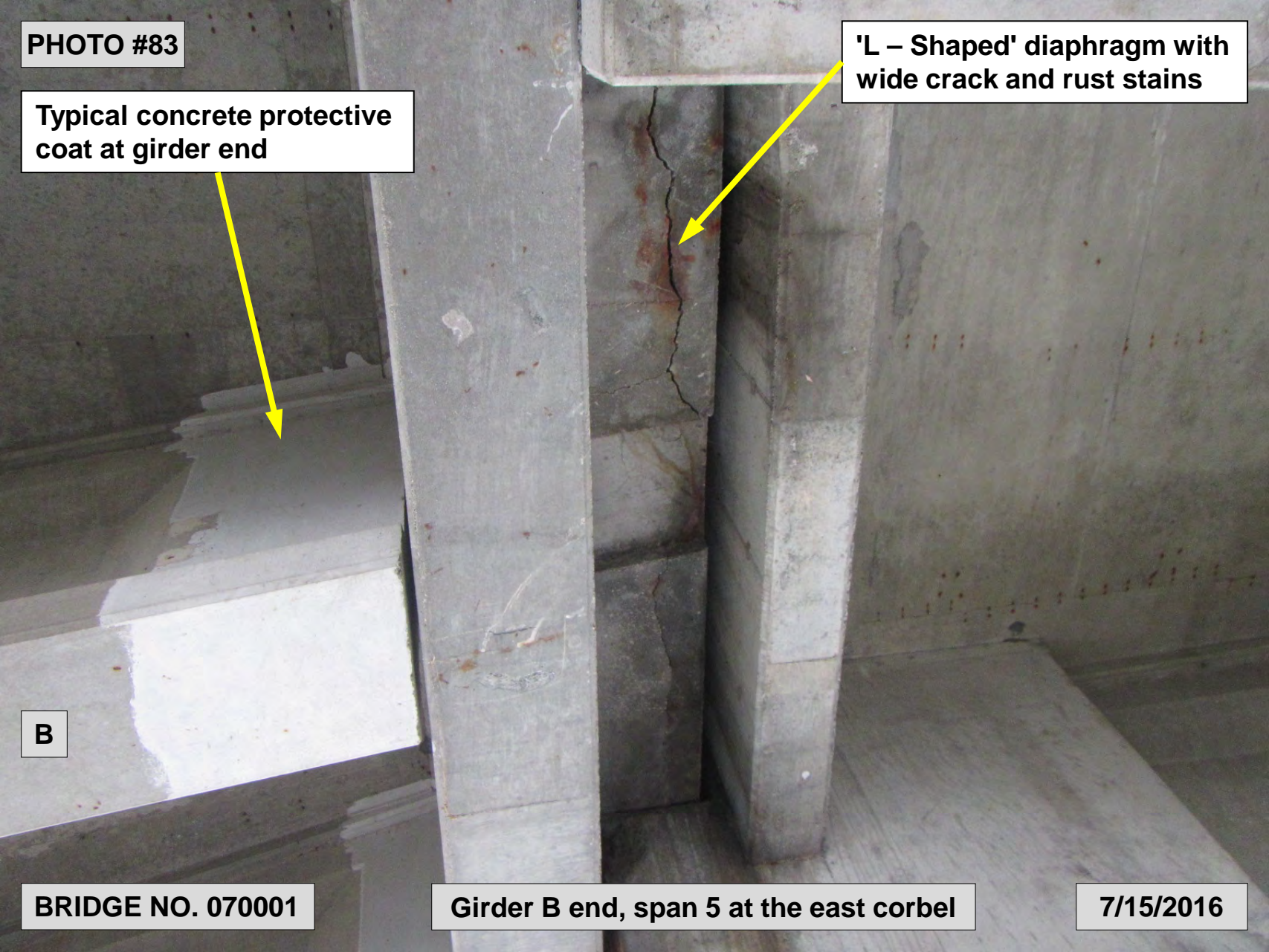
'L - Shaped' diaphragm with wide crack and rust stains

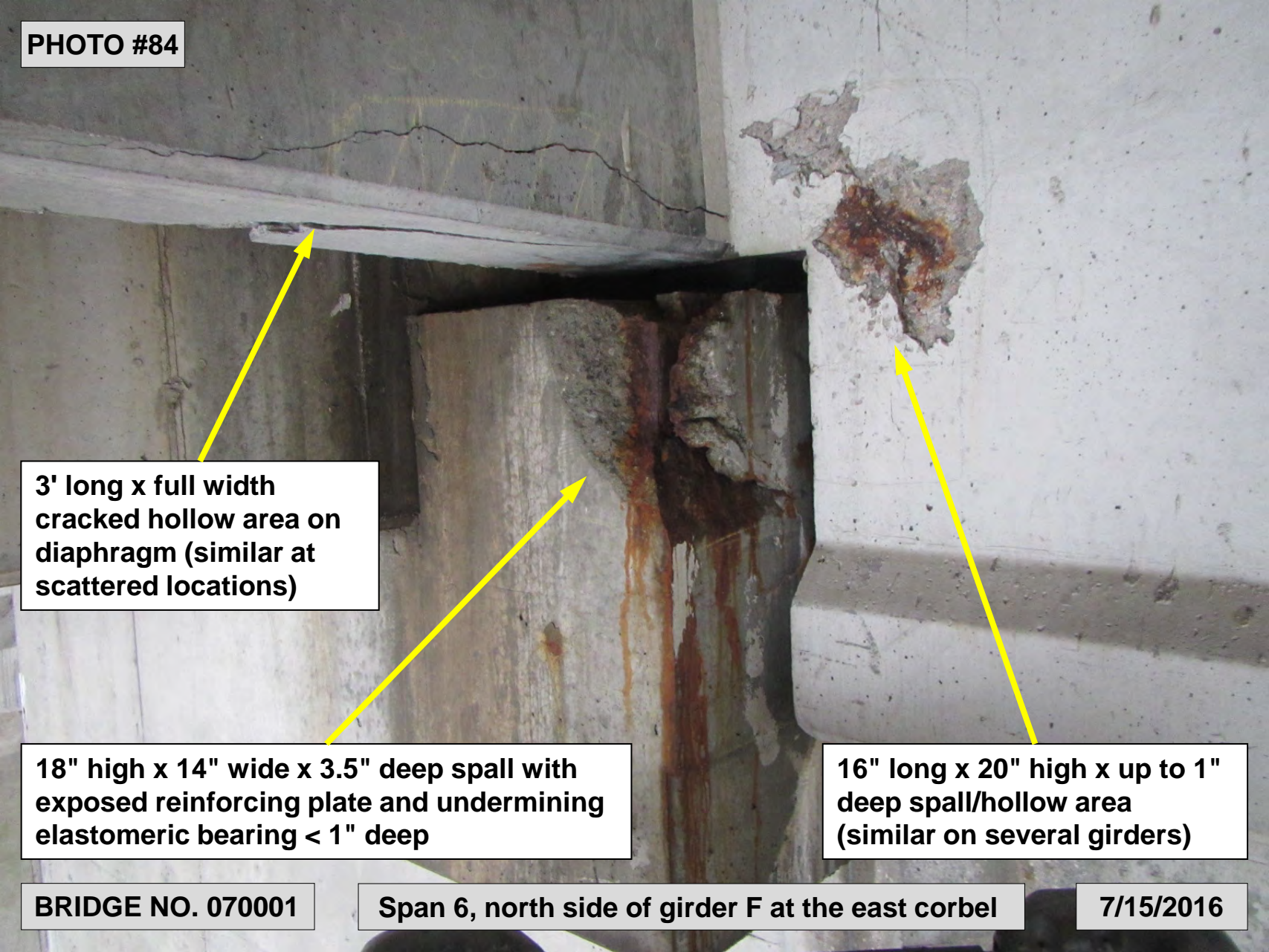
B

BRIDGE NO. 070001

Girder B end, span 5 at the east corbel

7/15/2016





**3' long x full width
cracked hollow area on
diaphragm (similar at
scattered locations)**

**18" high x 14" wide x 3.5" deep spall with
exposed reinforcing plate and undermining
elastomeric bearing < 1" deep**

**16" long x 20" high x up to 1"
deep spall/hollow area
(similar on several girders)**

PHOTO #85

**13" wide x 27" high x 2.5" deep
spall with exposed stirrups**

**Full width x 6" high hollow
area with minor 1" deep
spalling extends up to 2' long
to underside x 2" deep, with
heavy rust**

**18" wide x 16" long x 2" deep
spall with exposed strands**

BRIDGE NO. 070001

Span 6, girder A at the east corbel

7/15/2016

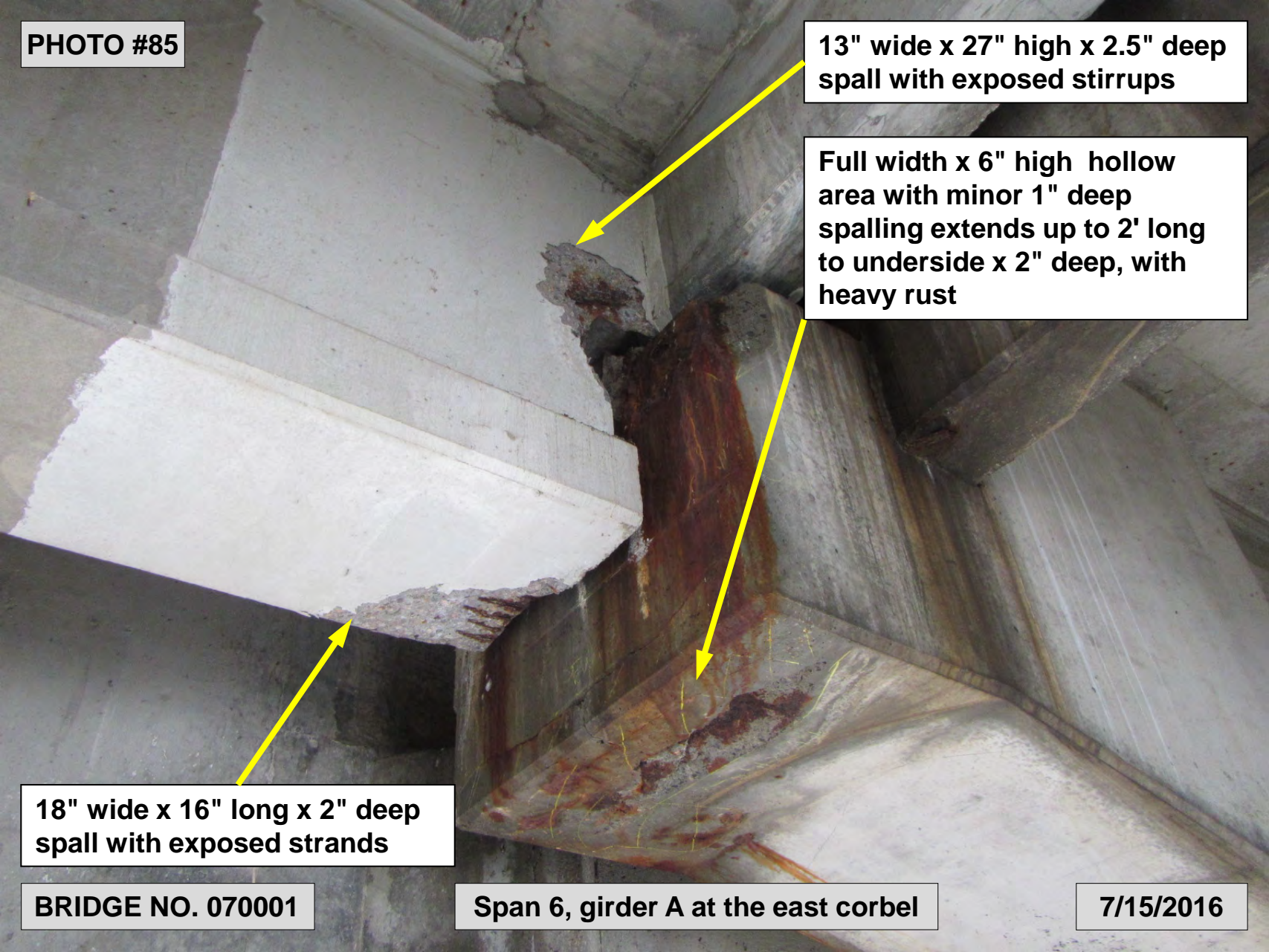


PHOTO #86

Heavy rust and efflorescence

**20" long x 14" wide x 2" deep
spall with exposed strands**

BRIDGE NO. 070001

Span 9, girder F at the east corbel

7/15/2016

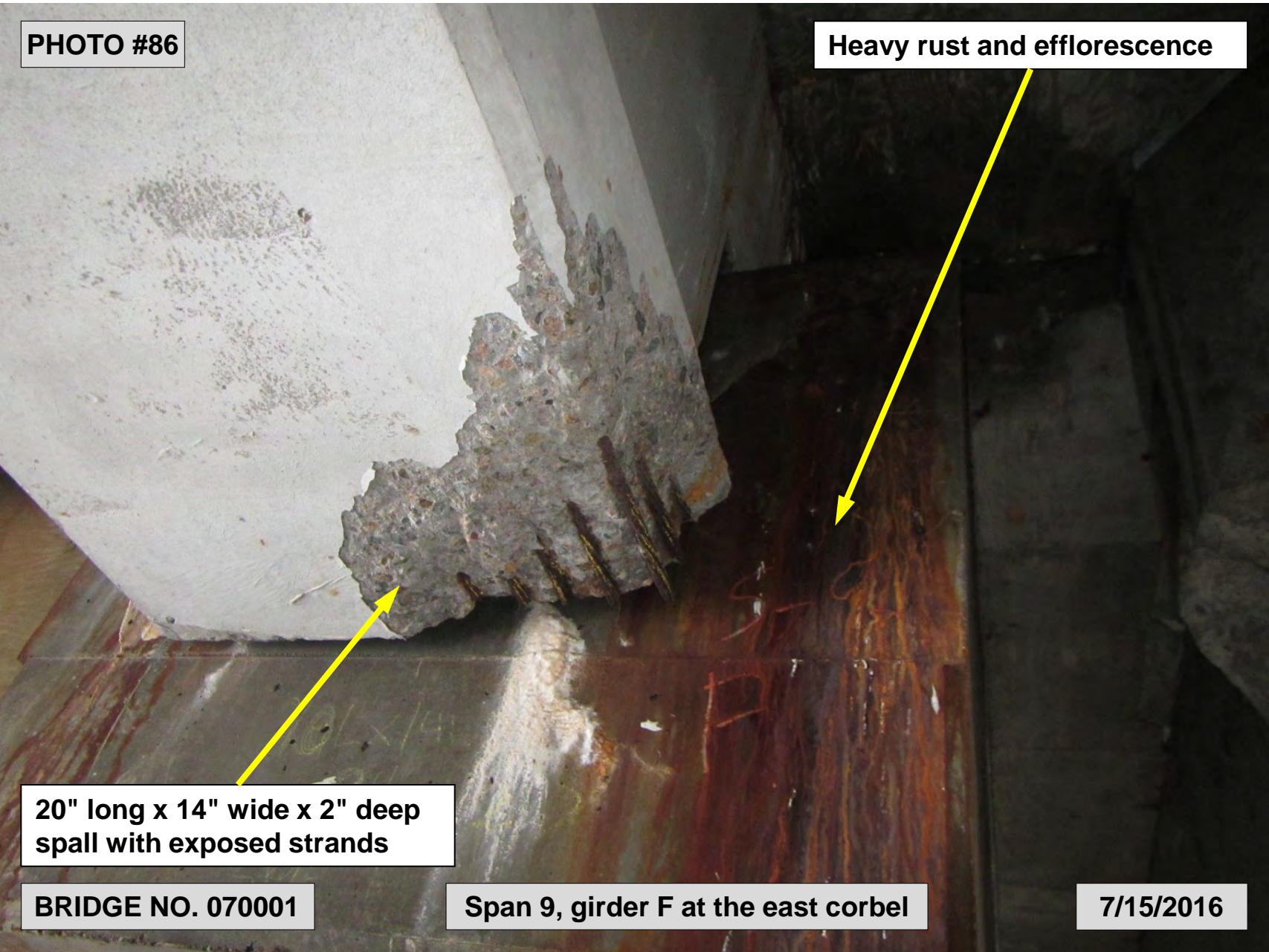
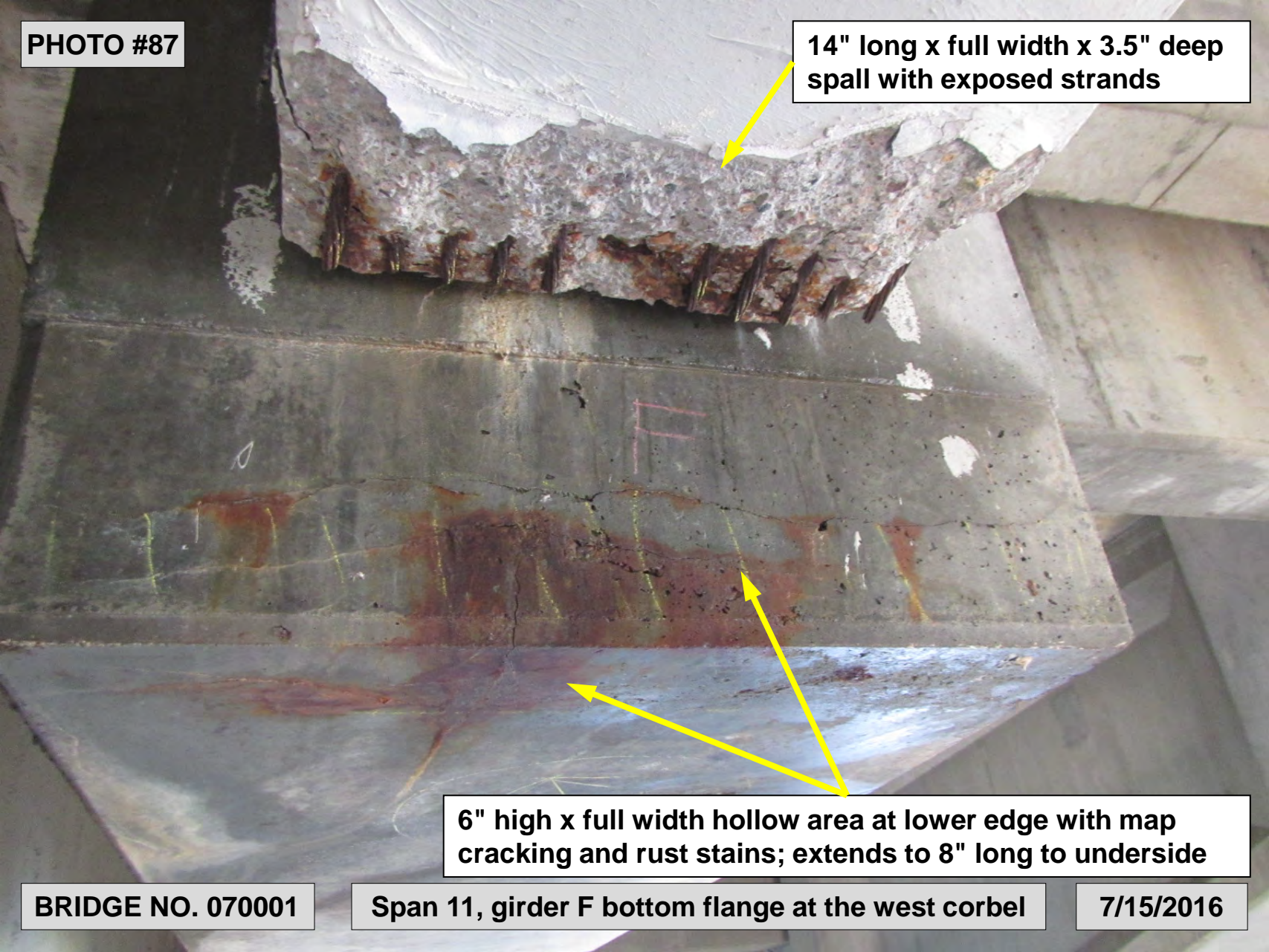


PHOTO #87

**14" long x full width x 3.5" deep
spall with exposed strands**

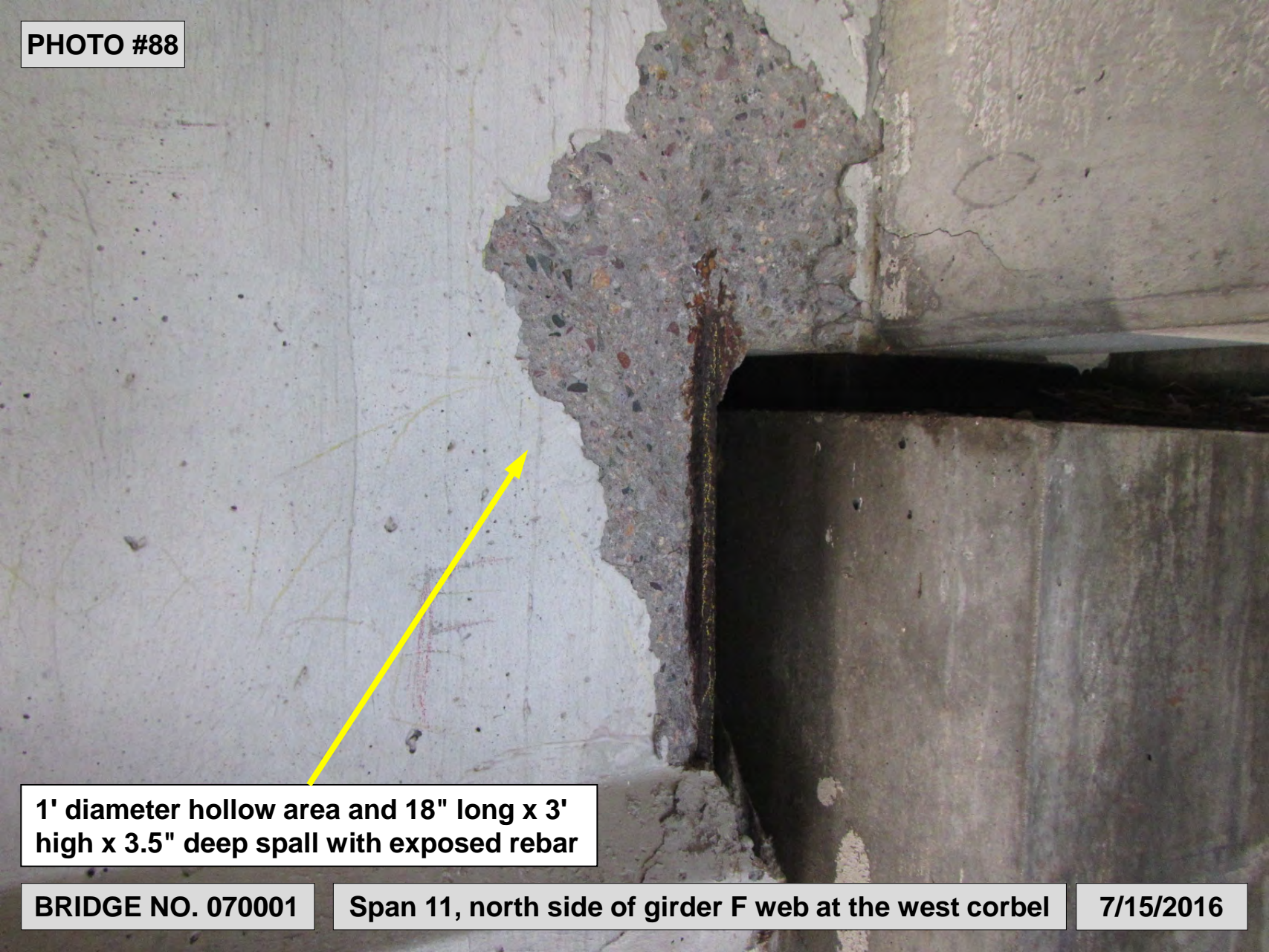


BRIDGE NO. 070001

Span 11, girder F bottom flange at the west corbel

7/15/2016

PHOTO #88



1' diameter hollow area and 18" long x 3' high x 3.5" deep spall with exposed rebar

BRIDGE NO. 070001

Span 11, north side of girder F web at the west corbel

7/15/2016

PHOTO #89

**Full height x 9" long x 2" deep
spall with exposed rebars**

**20" high x full width x 2" deep spall
with exposed reinforcing plate**

BRIDGE NO. 070001

Span 11, south side of girder A at the east corbel

7/15/2016

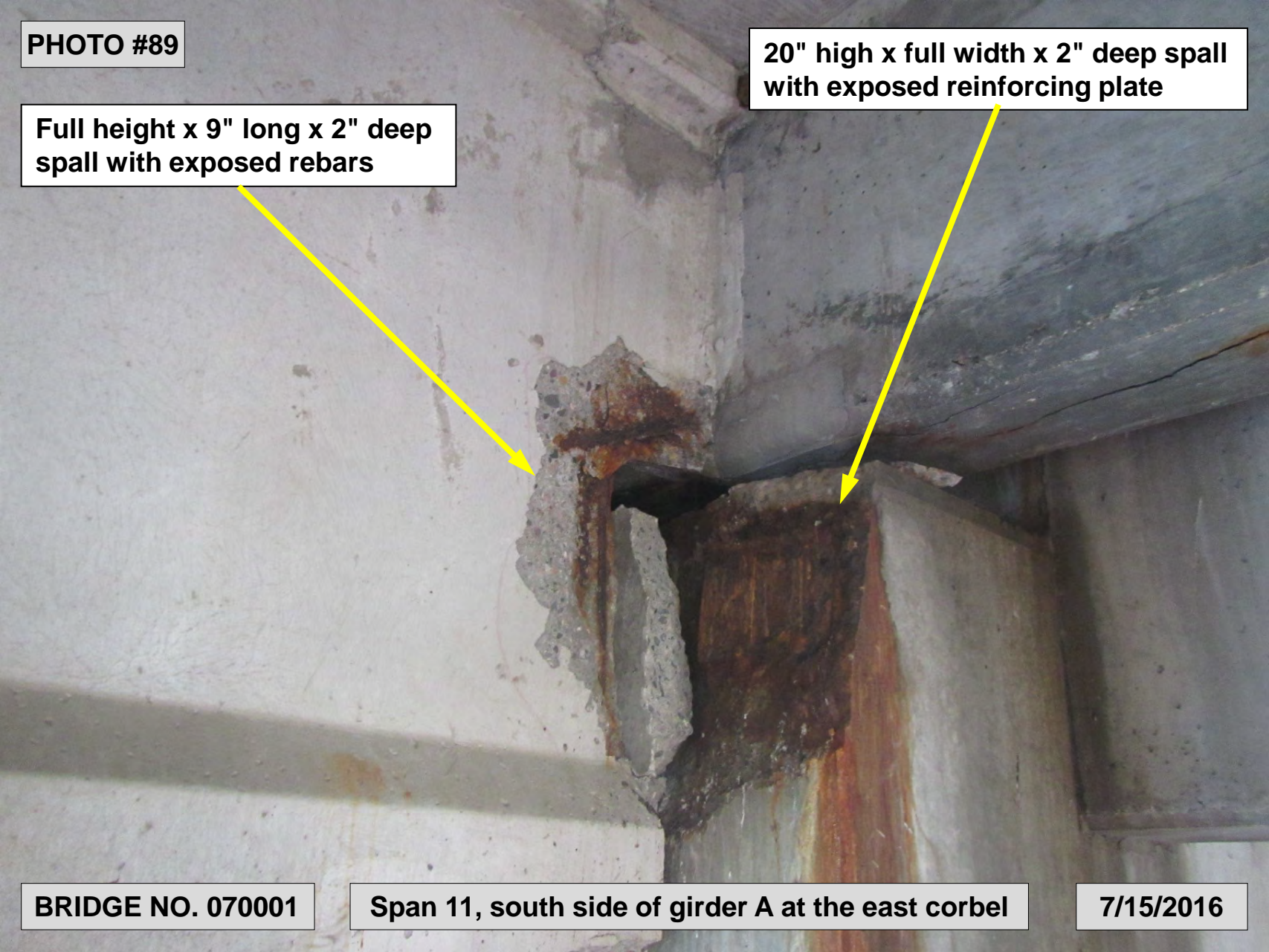


PHOTO #90

Diagonal hairline cracks with evidence of leakage and efflorescence

2' long x full height x up to 5" deep spall/hollow area with exposed debonded stirrups and strands (see photo 22 for undermined bearing)

BRIDGE NO. 070001

Span 14, south side of girder F at the west corbel

7/15/2016

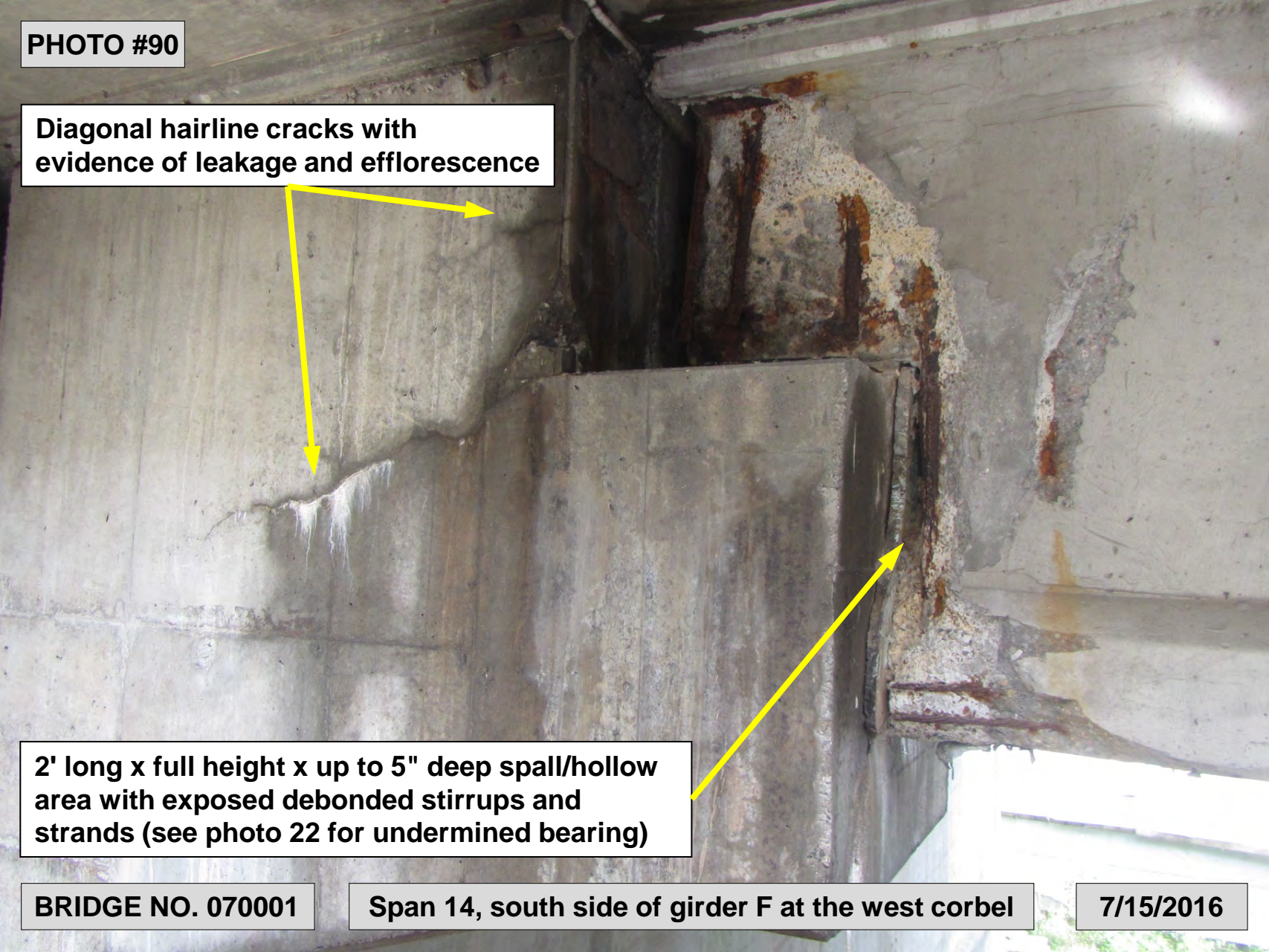


PHOTO #91

8" long x 3' high x 2.5" deep spall with exposed debonded stirrups extending to bottom flange and web



12" high x 16" wide x 2" deep spall with exposed reinforcing plate and adjacent 18" wide x 1' high hollow area; with rust and efflorescence

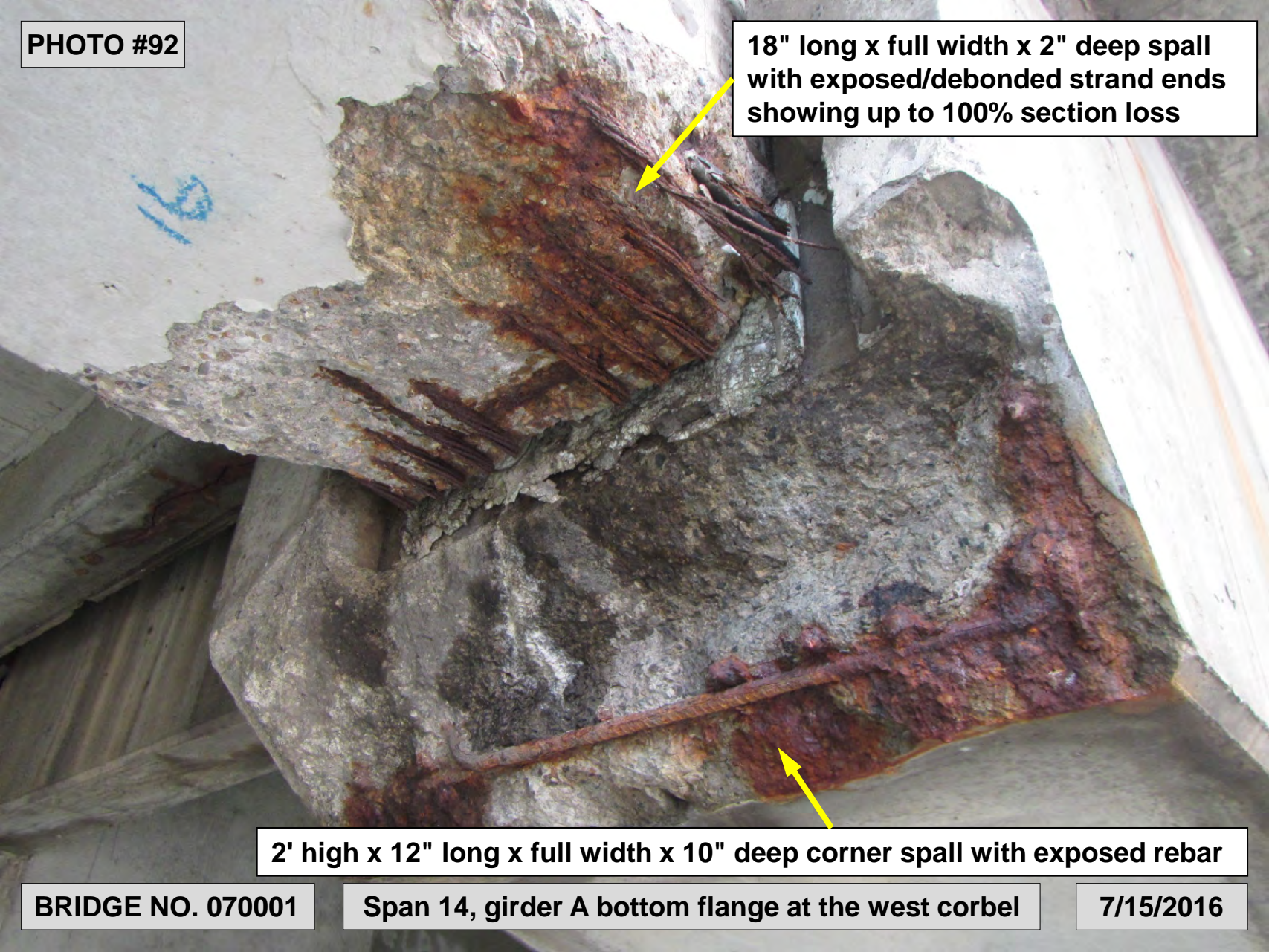
BRIDGE NO. 070001

Span 13, north side of girder F at the west corbel

7/15/2016

PHOTO #92

18" long x full width x 2" deep spall with exposed/debonded strand ends showing up to 100% section loss



2' high x 12" long x full width x 10" deep corner spall with exposed rebar

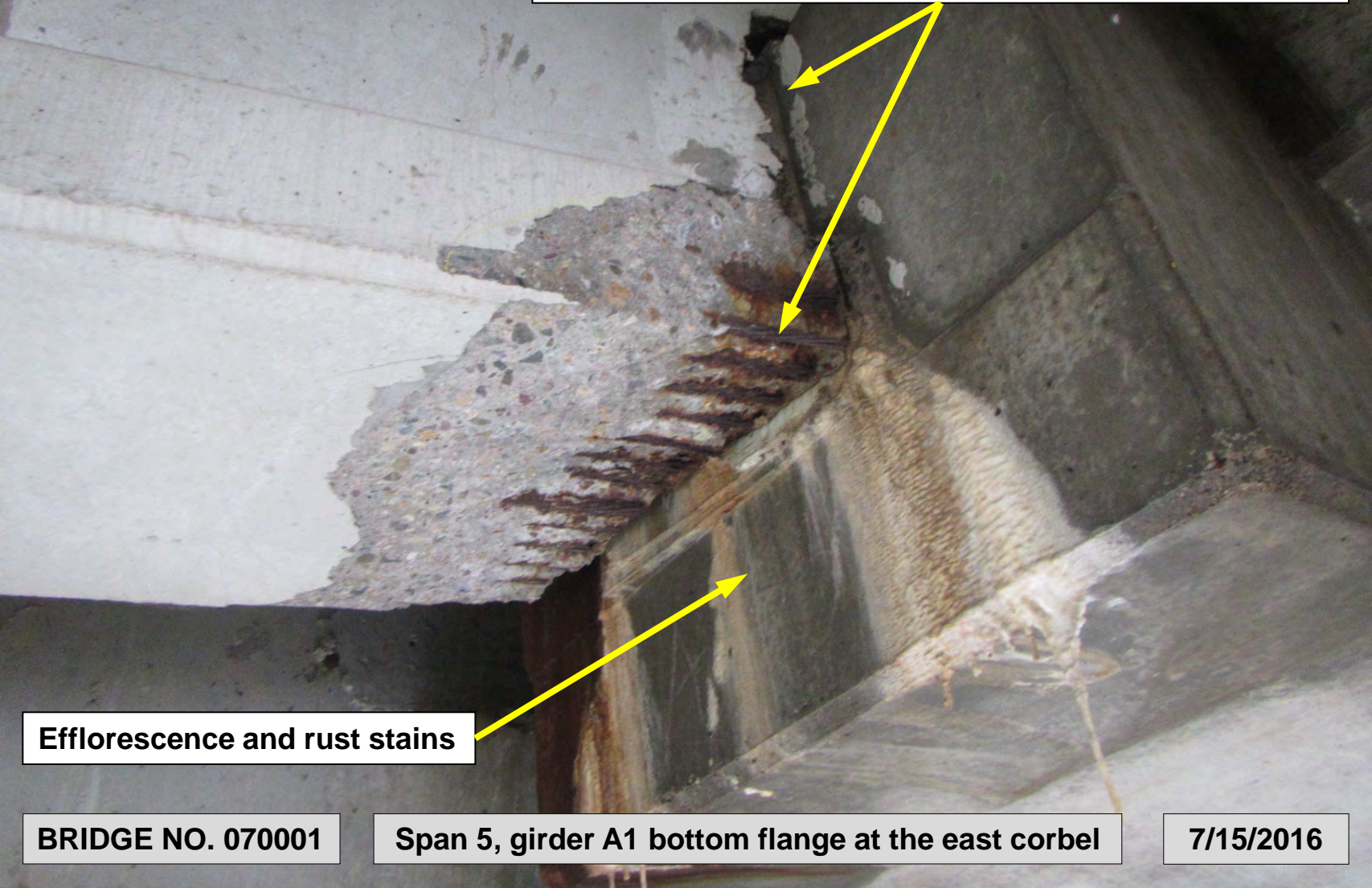
BRIDGE NO. 070001

Span 14, girder A bottom flange at the west corbel

7/15/2016

PHOTO #93

Full width x 20" long x 2" deep spall with (14) exposed and corroded strand ends; spall extends 16" high x 2" wide x 2" deep to end of web with heavy efflorescence



Efflorescence and rust stains

BRIDGE NO. 070001

Span 5, girder A1 bottom flange at the east corbel

7/15/2016

PHOTO #94

**16" long diagonal hairline crack
(similar at scattered locations)**

16"
SP2W E'NF

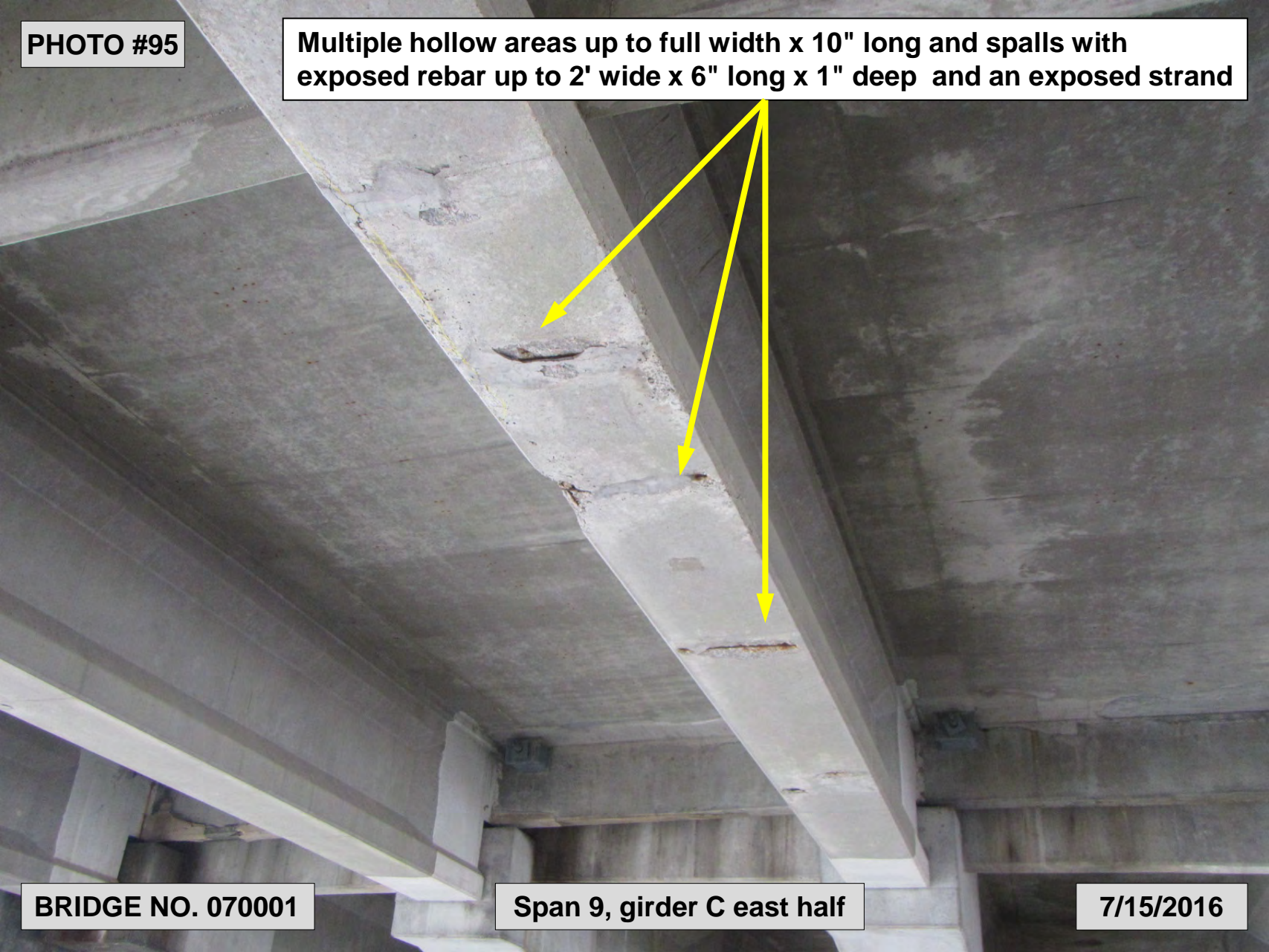
BRIDGE NO. 070001

Span 2, north side of girder E at the west corbel

7/15/2016

PHOTO #95

Multiple hollow areas up to full width x 10" long and spalls with exposed rebar up to 2' wide x 6" long x 1" deep and an exposed strand



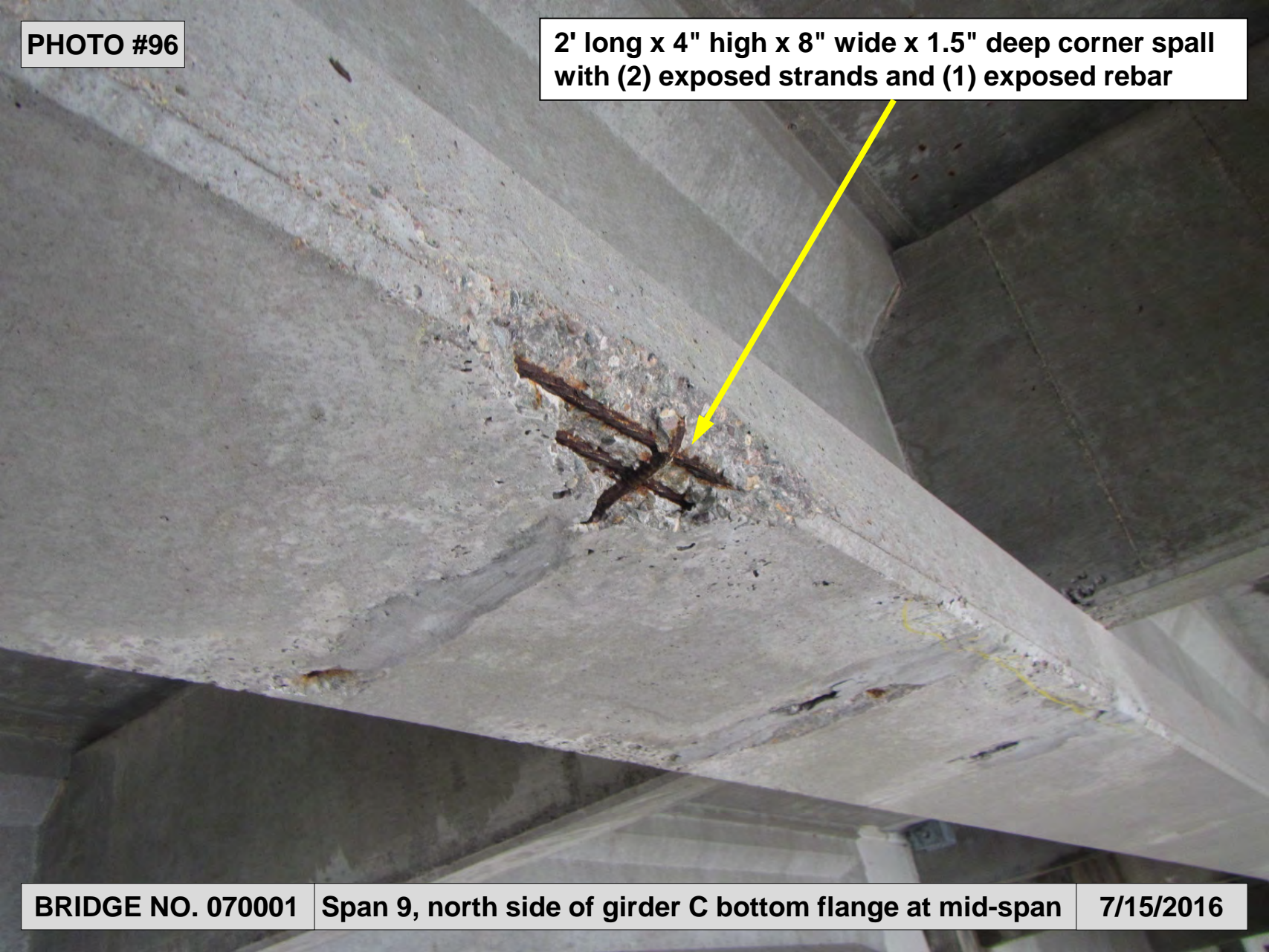
BRIDGE NO. 070001

Span 9, girder C east half

7/15/2016

PHOTO #96

2' long x 4" high x 8" wide x 1.5" deep corner spall with (2) exposed strands and (1) exposed rebar



BRIDGE NO. 070001

Span 9, north side of girder C bottom flange at mid-span

7/15/2016

PHOTO #97

40" long x 18" wide x 2" deep spall with (5) strands exposed with broken wires and (1) exposed debonded stirrup. See photo 98 for close-up.



Full width x 12" long x 1" deep spall with exposed stirrup

BRIDGE NO. 070001

Span 12, girder B bottom flange at the east half

7/15/2016

PHOTO #98

36x18x4

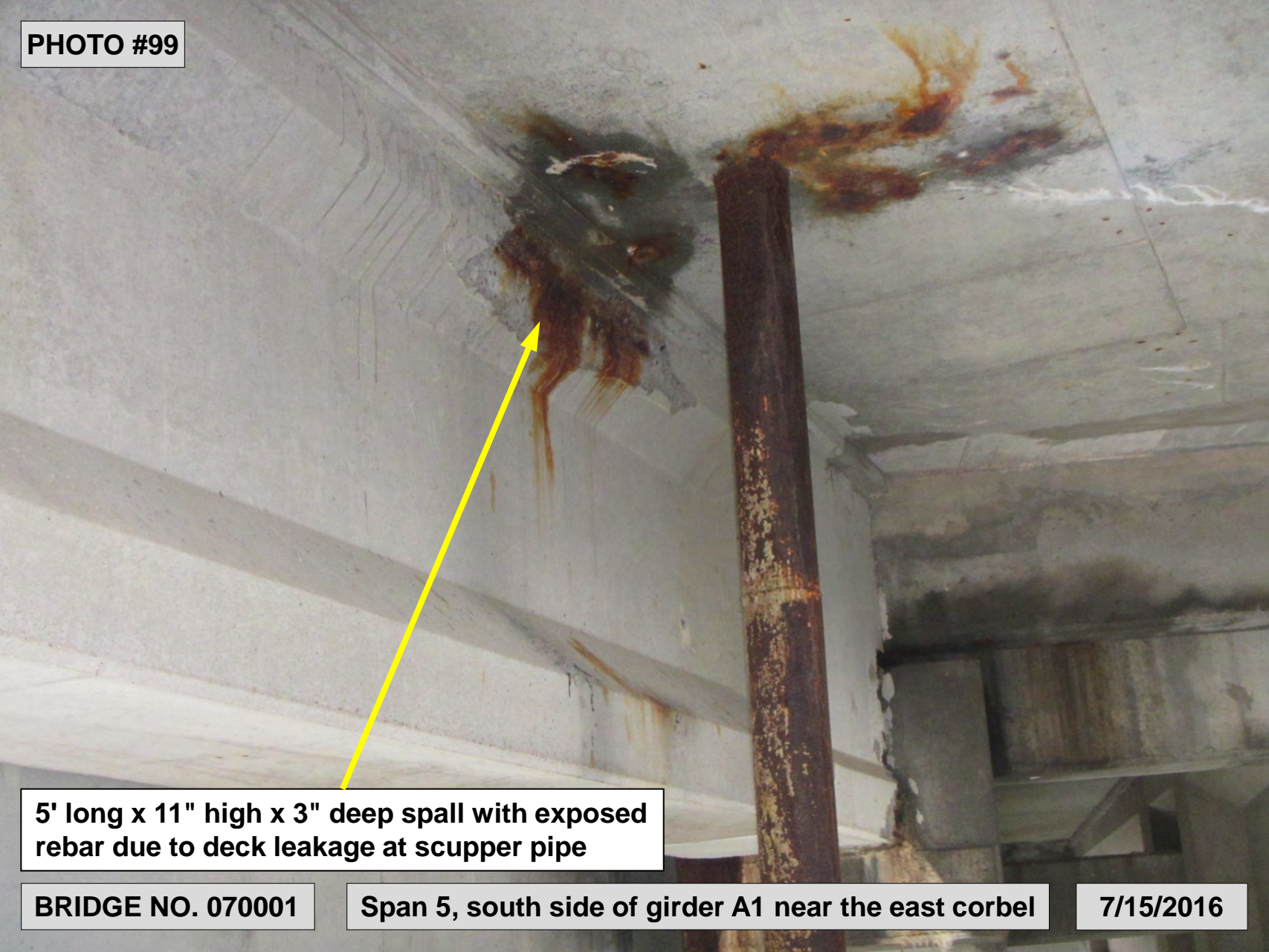


BRIDGE NO. 070001

Same as photo 97 showing close-up
of spall with exposed strands

7/15/2016

PHOTO #99



5' long x 11" high x 3" deep spall with exposed rebar due to deck leakage at scupper pipe

BRIDGE NO. 070001

Span 5, south side of girder A1 near the east corbel

7/15/2016

PHOTO #100

7" long x 12" wide x 1" deep spall with exposed stirrup

12" long x 18" wide x 1" deep spall with exposed stirrup

BRIDGE NO. 070001

Span 14, girder D bottom flange at mid-span

7/15/2016

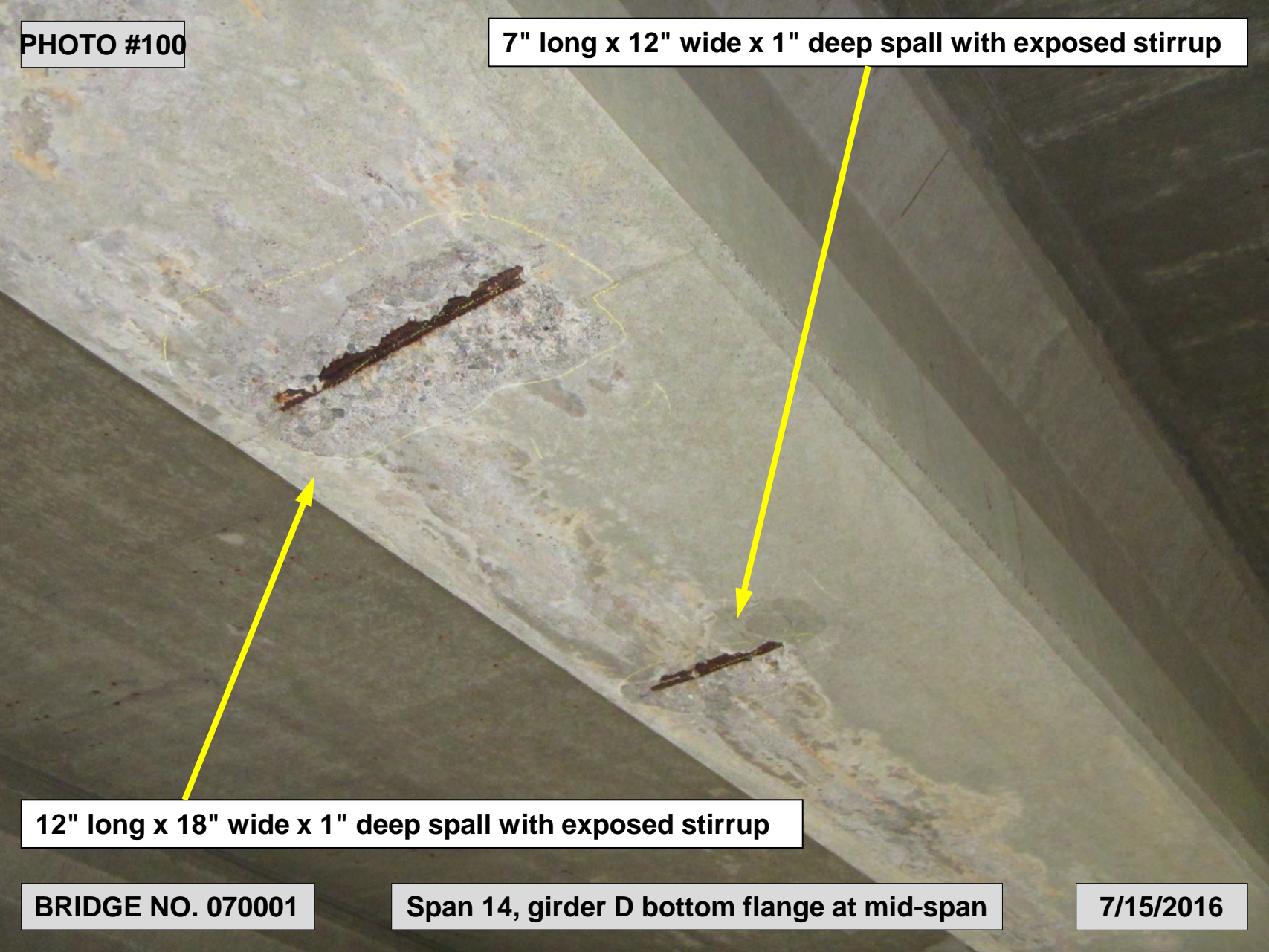


PHOTO #101



Multiple cracks, hollow areas and spalls (6 total) up to 28" wide x 12" long x 2" deep with leakage stains and exposed rebar

BRIDGE NO. 070001

Span 1, underside of girder A east corbel

7/15/2016

PHOTO #102

**Multiple cracks
open up to 1/16"
wide, hollow areas
and spalls up to 17"
wide x up to 43"
long x up to 2"
deep with exposed
reinforcement**

BRIDGE NO. 070001

**Span 10, underside of
girder A west corbel**

7/15/2016

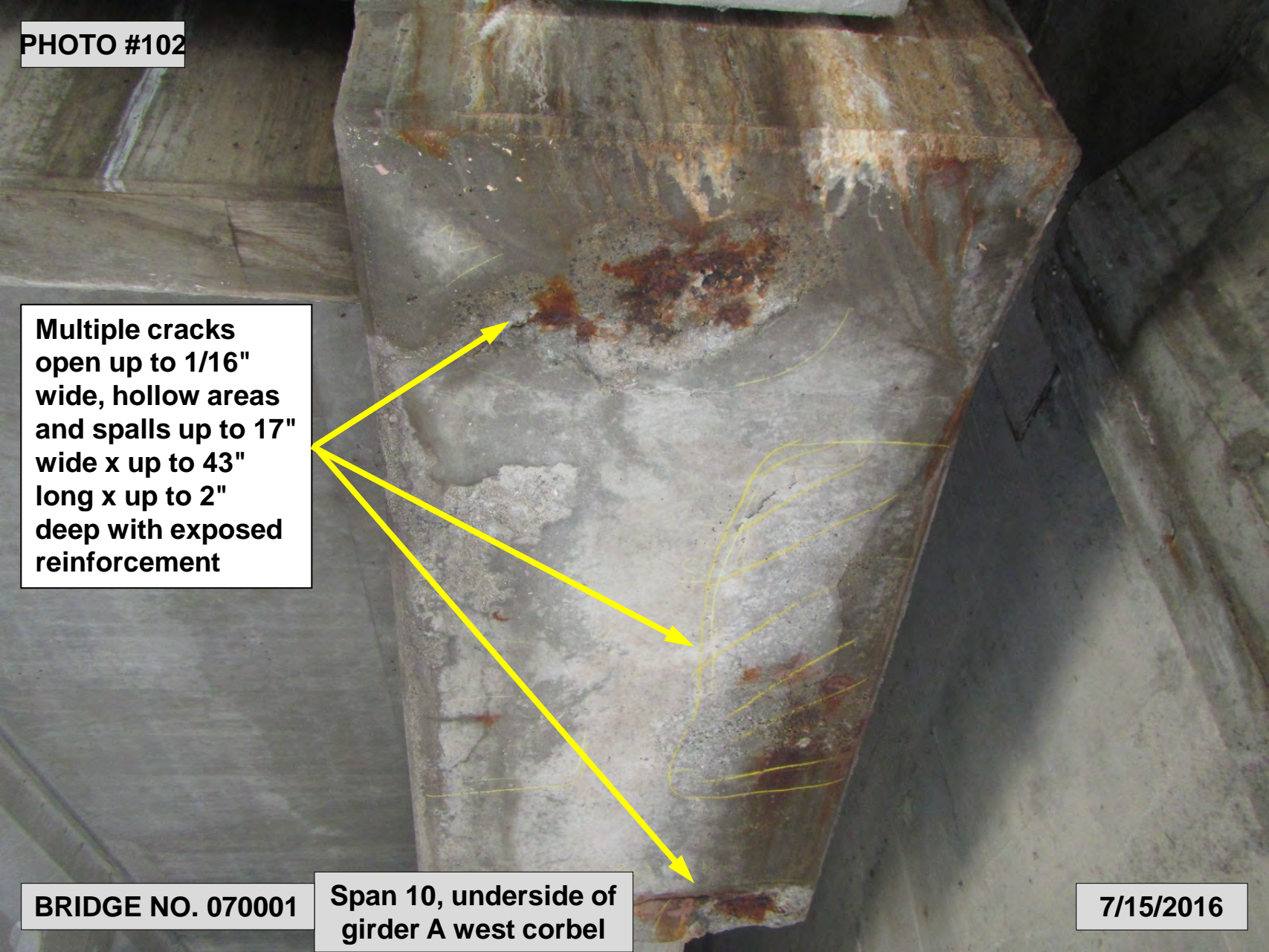


PHOTO #103

24" long x 18" wide x 3" deep spall with exposed rebar and strands exposed

Full width horizontal crack open up to 1/8"

14" long x full width hollow area at east edge and extends 8" high onto east face; with rust and efflorescence

BRIDGE NO. 070001

Span 11, underside of girder A west corbel

7/15/2016

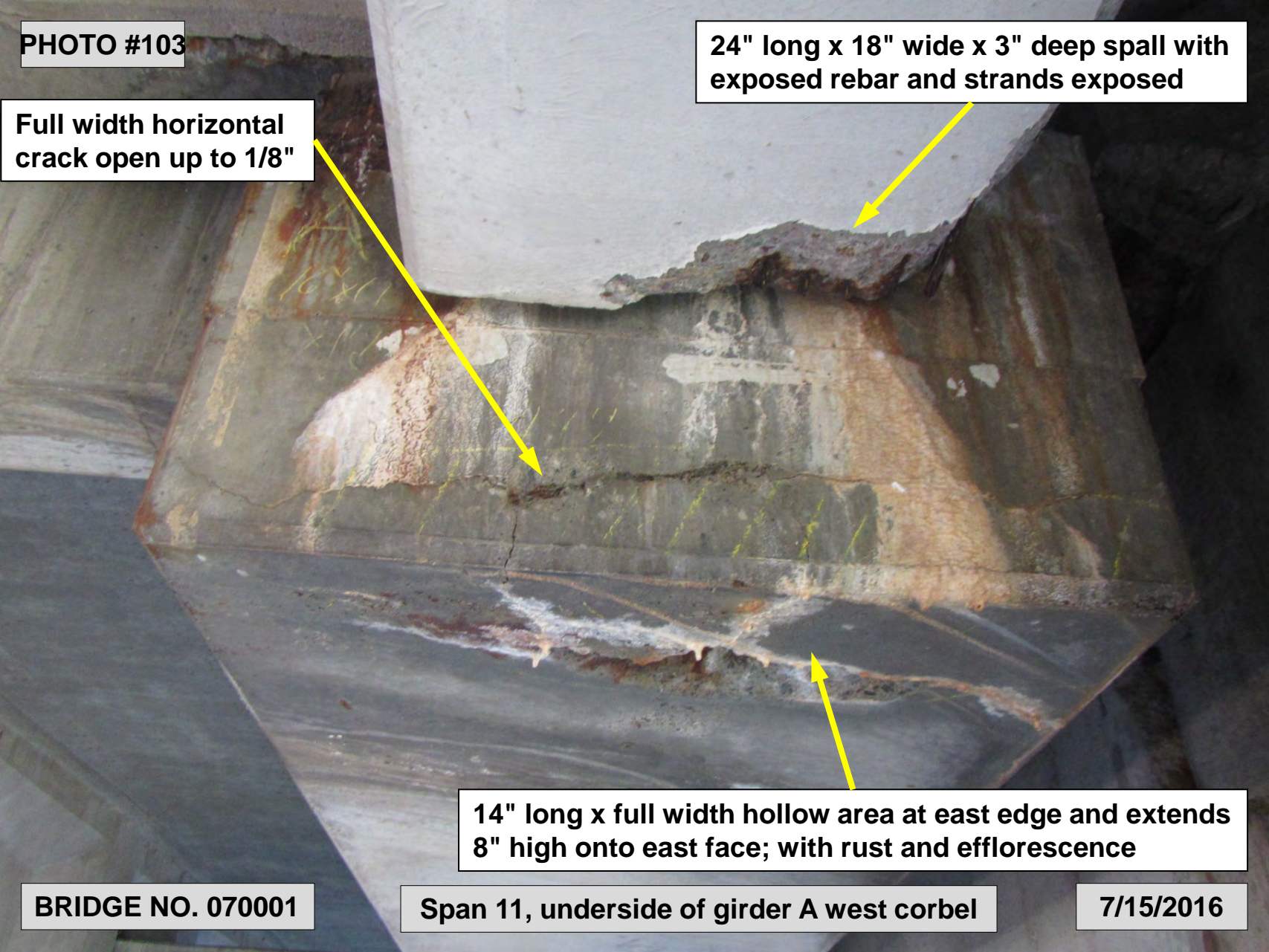


PHOTO #104

18" high x 8" long x 2" deep spall with exposed reinforcing plate

16" long x full height x 4" deep spall with (2) - stirrup bars exposed and adjacent hollow area.

See photo 92

BRIDGE NO. 070001

Span 14, north side of girder A at the west corbel

7/15/2016

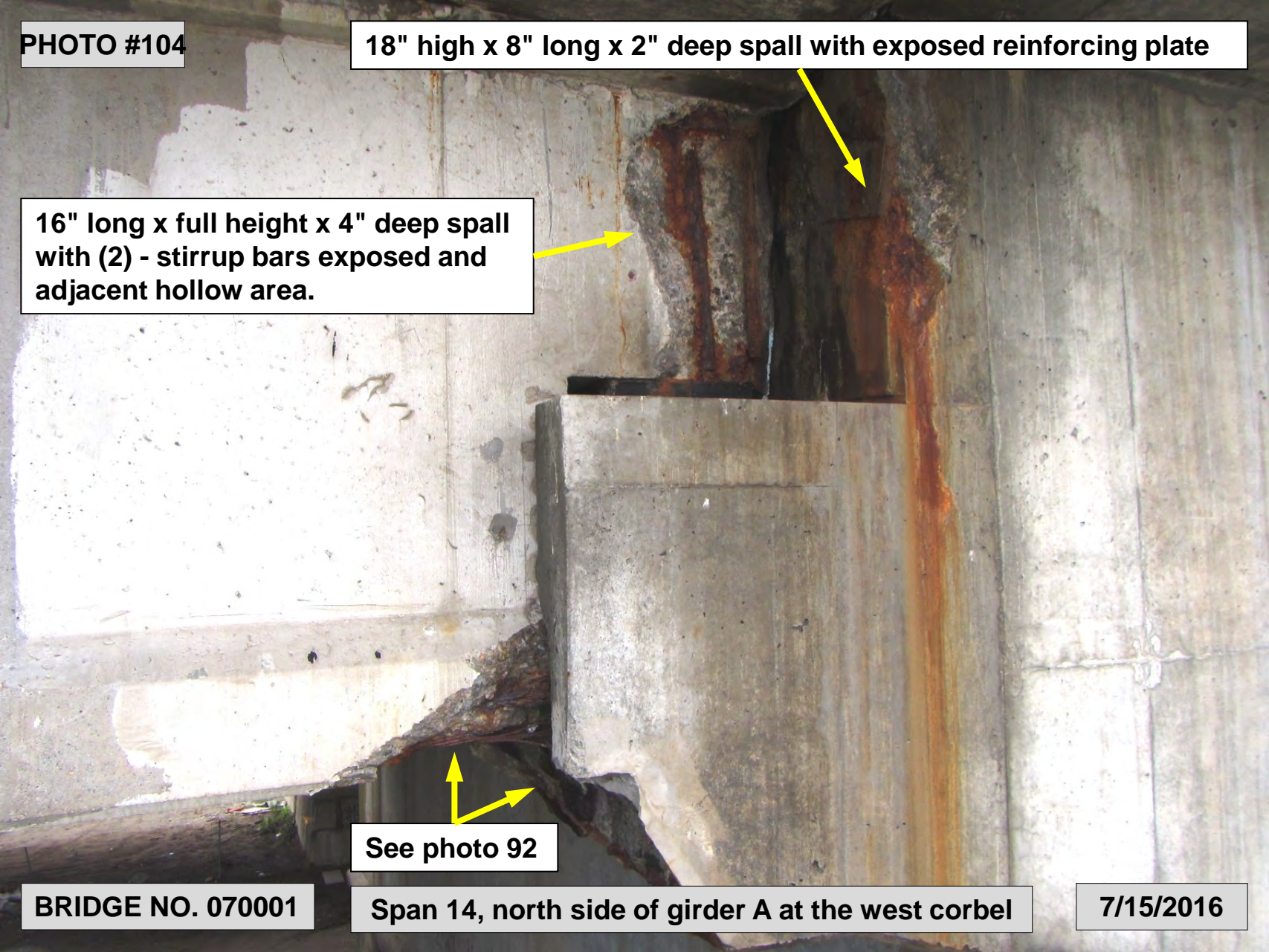


PHOTO #105

12" high x 5'-6" wide x 2" deep spall and hollow area. Also note heavy rust and efflorescence

40" long x 14" wide hollow area with edge spalling up to 1" deep

BRIDGE NO. 070001

Span 13, girder A west corbel

7/15/2016

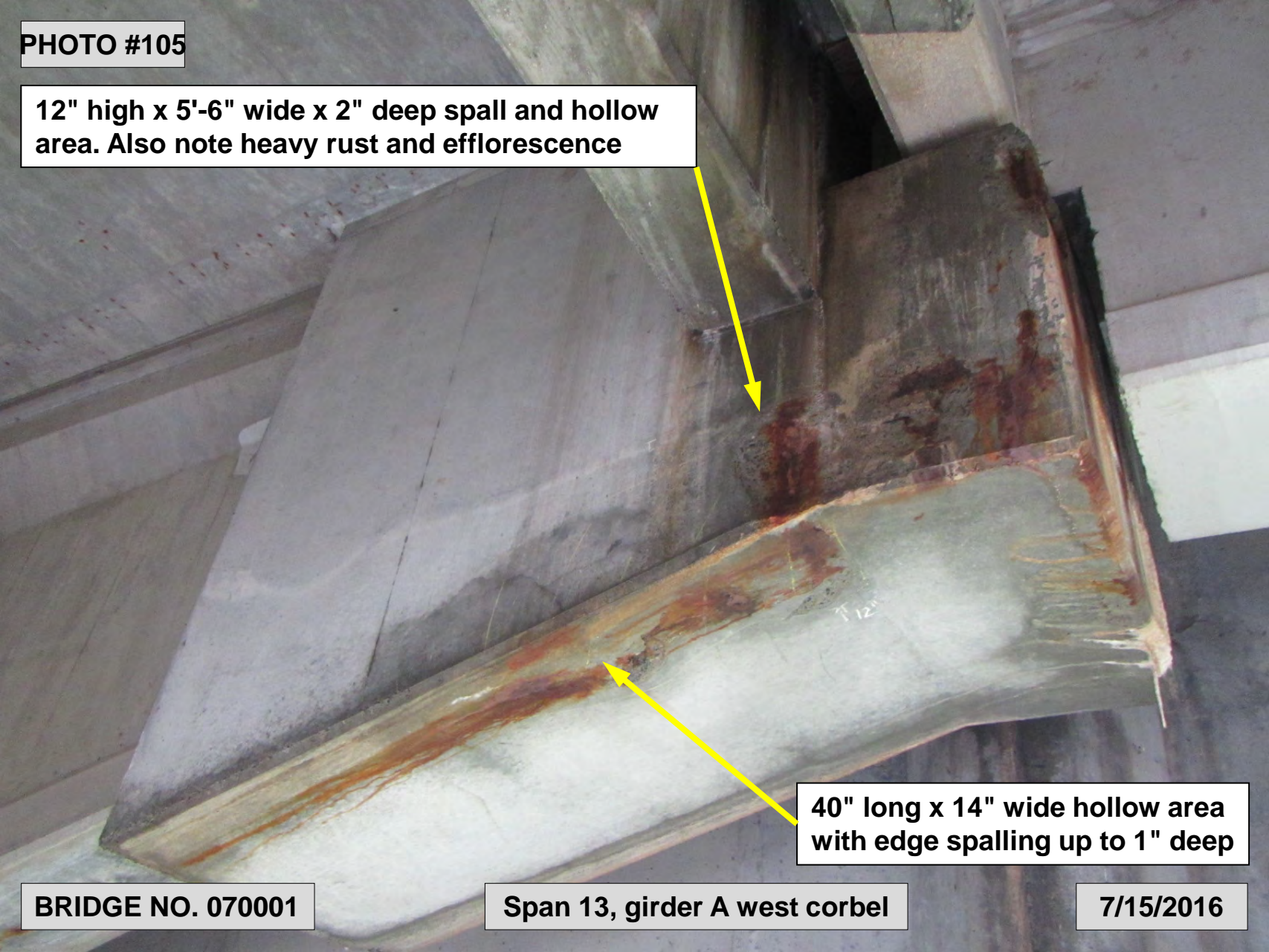
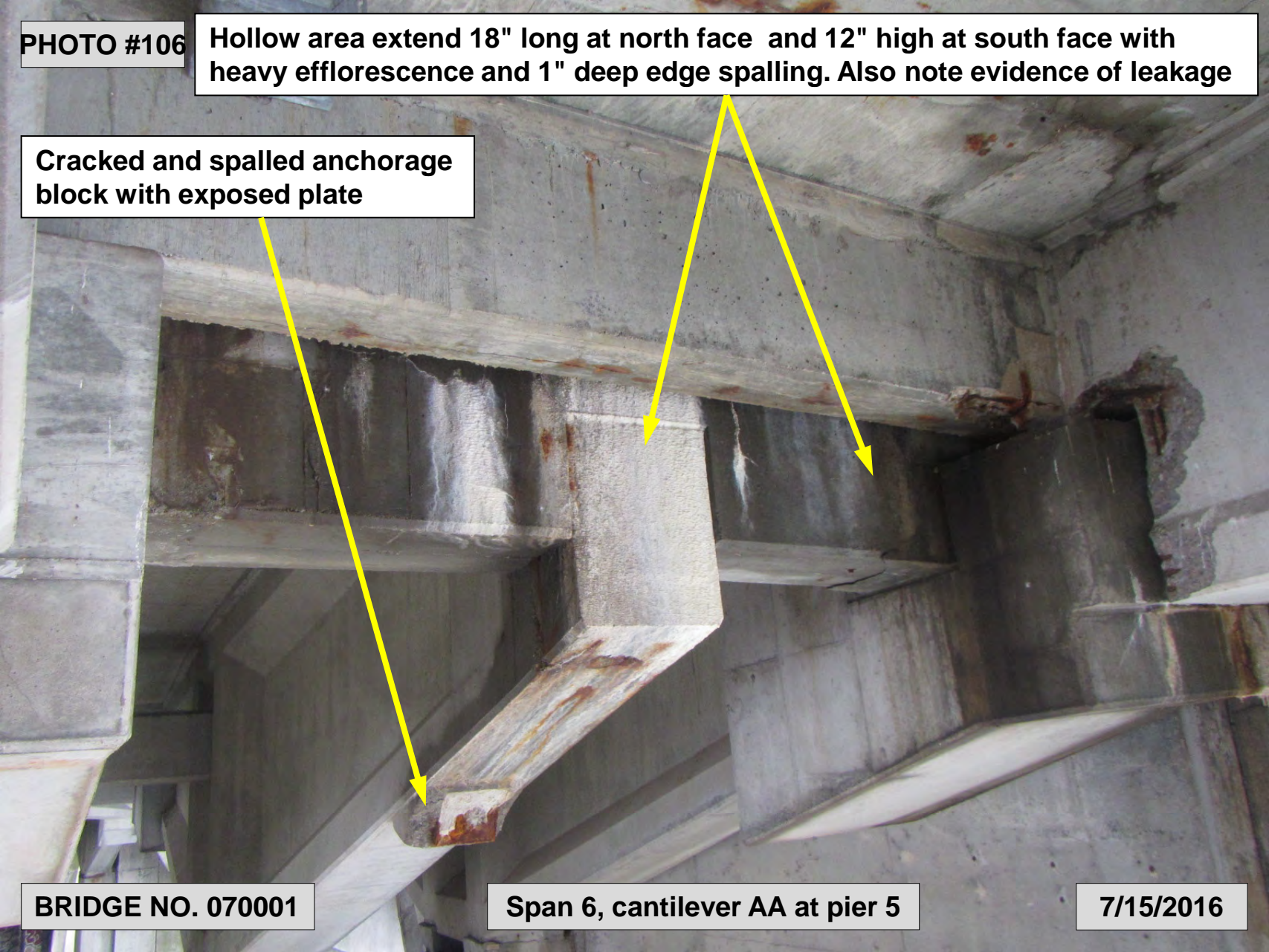


PHOTO #106

Hollow area extend 18" long at north face and 12" high at south face with heavy efflorescence and 1" deep edge spalling. Also note evidence of leakage

Cracked and spalled anchorage block with exposed plate



BRIDGE NO. 070001

Span 6, cantilever AA at pier 5

7/15/2016

PHOTO #107

114" long diagonal hairline crack within 5' long x 15" high hollow area with edge spalling up to 1/2" deep and efflorescence



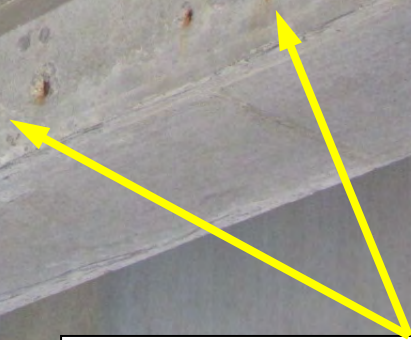
BRIDGE NO. 070001

Span 4, south side of cantilever B near pier 4

7/15/2016

PHOTO #108

Built out web



Four popouts up to 3" high x 2" wide x 1/2" deep with exposed rebar

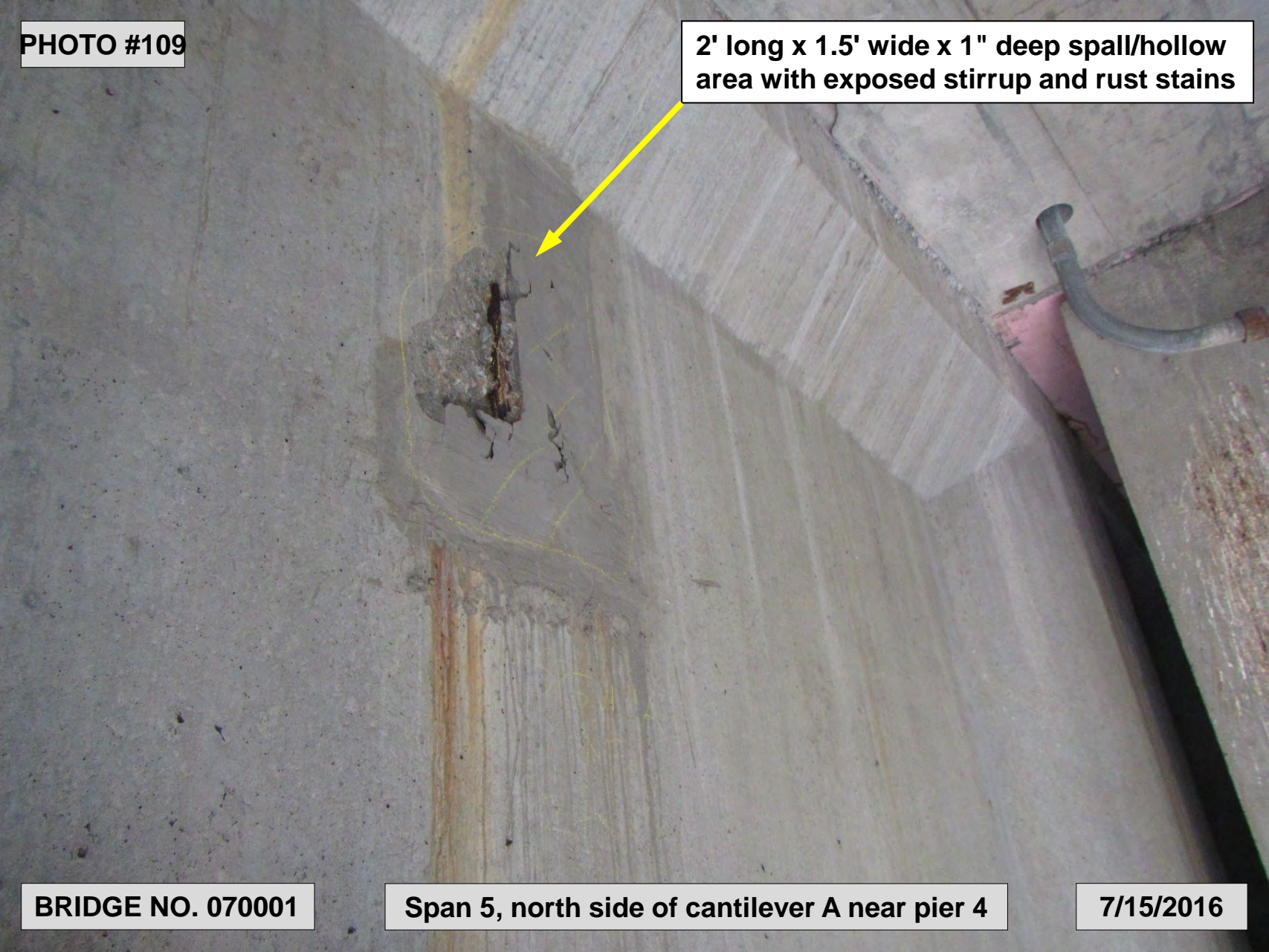
BRIDGE NO. 070001

Span 4, north side of cantilever C near pier 4

7/15/2016

PHOTO #109

2' long x 1.5' wide x 1" deep spall/hollow area with exposed stirrup and rust stains



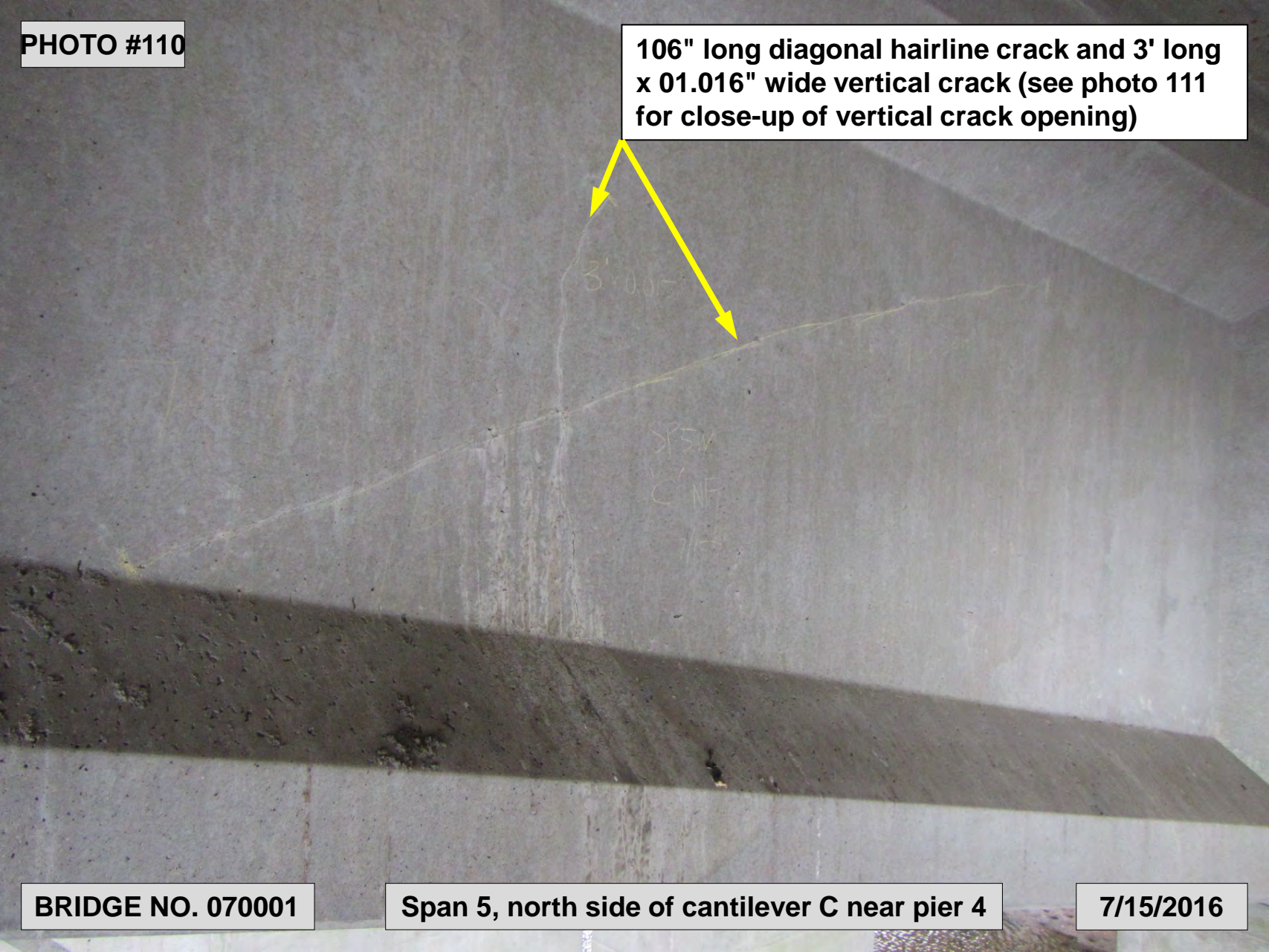
BRIDGE NO. 070001

Span 5, north side of cantilever A near pier 4

7/15/2016

PHOTO #110

106" long diagonal hairline crack and 3' long x 01.016" wide vertical crack (see photo 111 for close-up of vertical crack opening)



BRIDGE NO. 070001

Span 5, north side of cantilever C near pier 4

7/15/2016

PHOTO #111



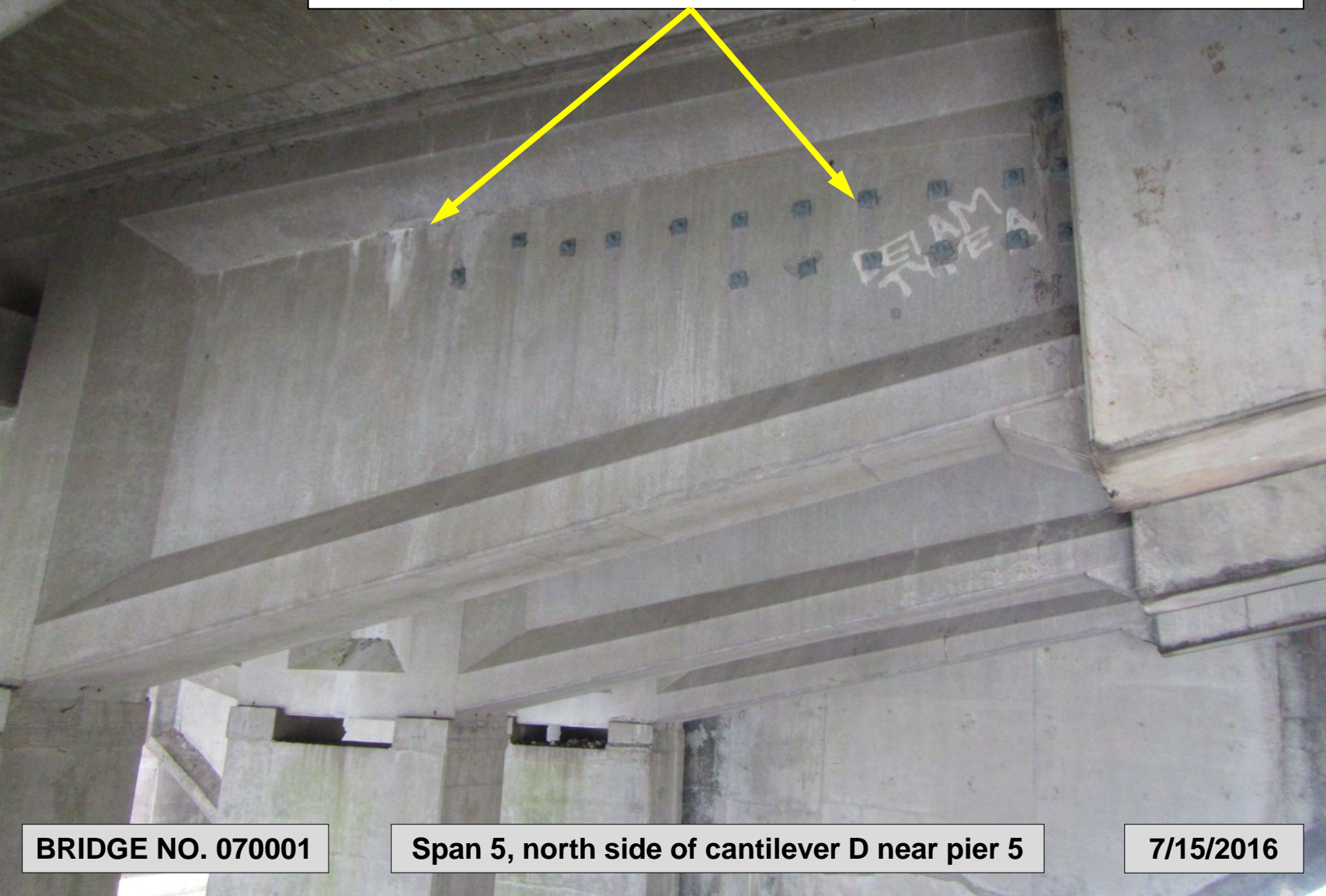
BRIDGE NO. 070001

Same as photo 110 showing vertical crack open up to 0.016" wide

7/15/2016

PHOTO #112

Full length x 0.025" wide horizontal hairline crack with efflorescence along top of web. (17) steel rods through bolted in the web

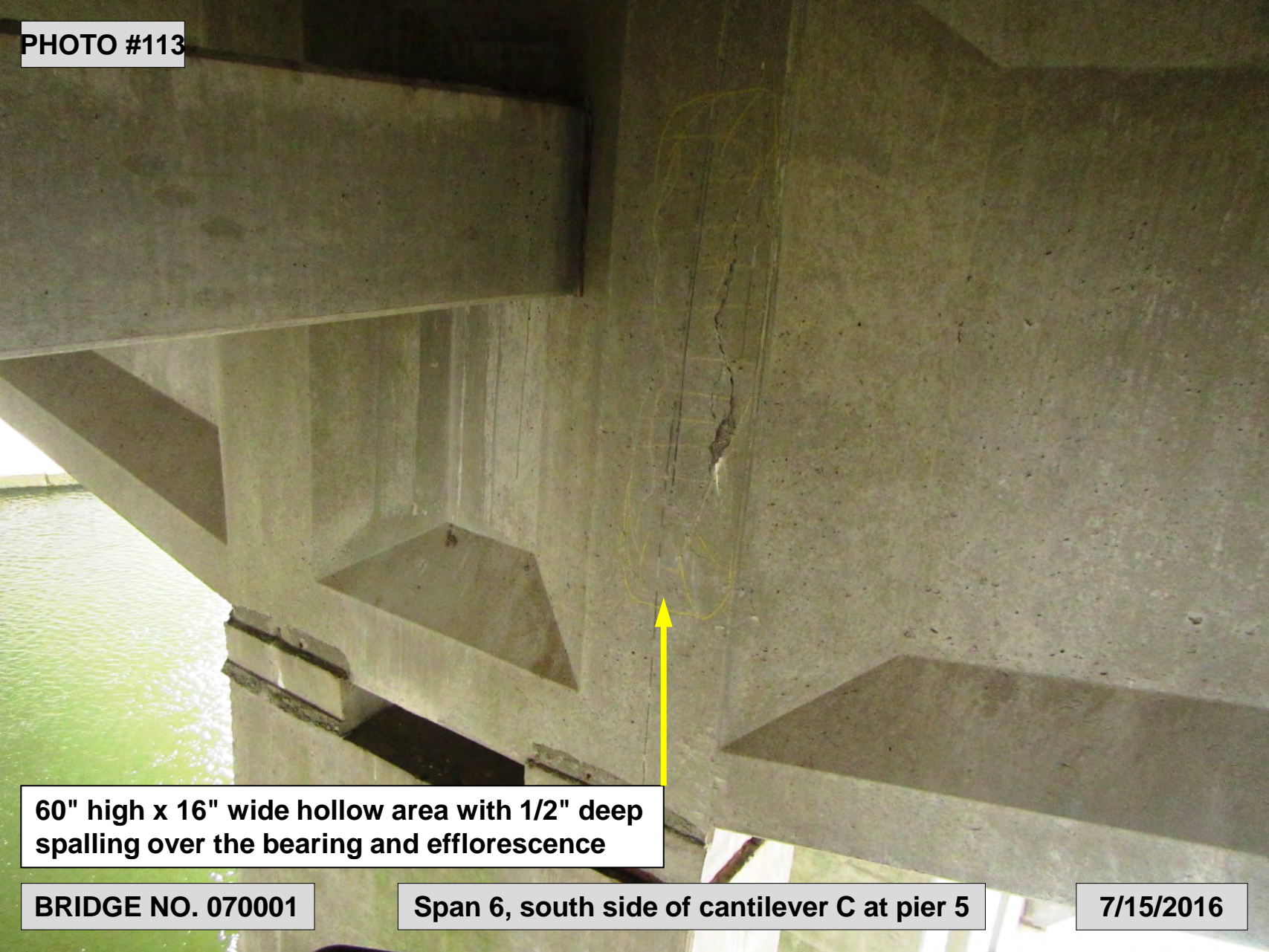


BRIDGE NO. 070001

Span 5, north side of cantilever D near pier 5

7/15/2016

PHOTO #113



60" high x 16" wide hollow area with 1/2" deep spalling over the bearing and efflorescence

BRIDGE NO. 070001

Span 6, south side of cantilever C at pier 5

7/15/2016

PHOTO #114

Up to 3/8" thick pack rust between connection plate and stiffener

Heavy laminated rust with section loss and up to knife edge thickness remaining on diaphragm members

Full height x 16" wide x 8" deep spall with fully exposed and broken stirrups and 15%± section loss on remaining exposed stirrups. See photo 115 for close-up

BRIDGE NO. 070001

Span 7, east side of cantilever A at pier 6 east wall

7/15/2016

PHOTO #115

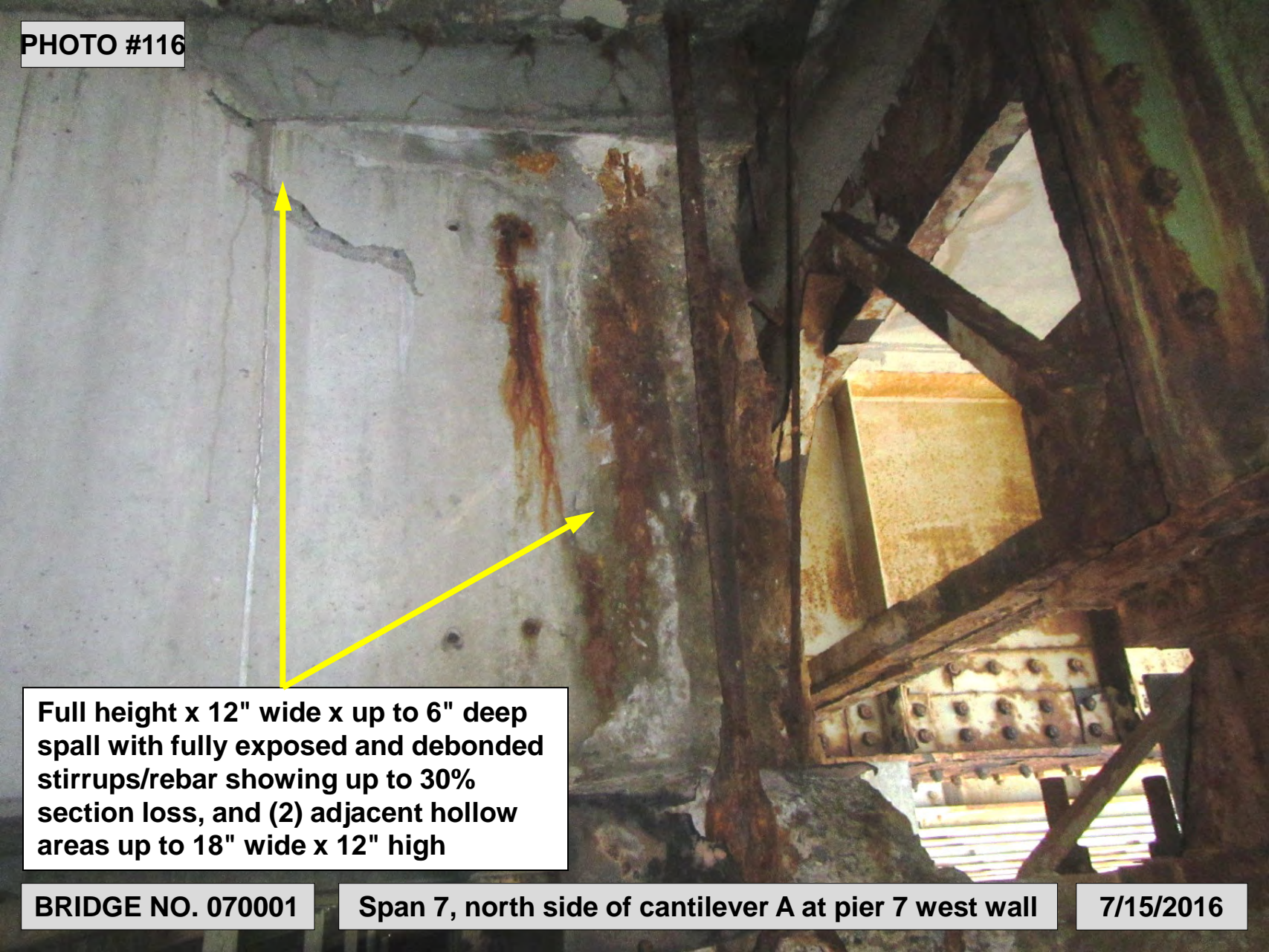


BRIDGE NO. 070001

Same as photo 114 showing close-up of spall with exposed, debonded and broken rebar

7/15/2016

PHOTO #116



Full height x 12" wide x up to 6" deep spall with fully exposed and debonded stirrups/rebar showing up to 30% section loss, and (2) adjacent hollow areas up to 18" wide x 12" high

BRIDGE NO. 070001

Span 7, north side of cantilever A at pier 7 west wall

7/15/2016

PHOTO #117



126" long diagonal hairline crack within 82"L long x 36" high hollow area with (2) spalls up to 1-1/2" deep with (2) exposed stirrups and efflorescence

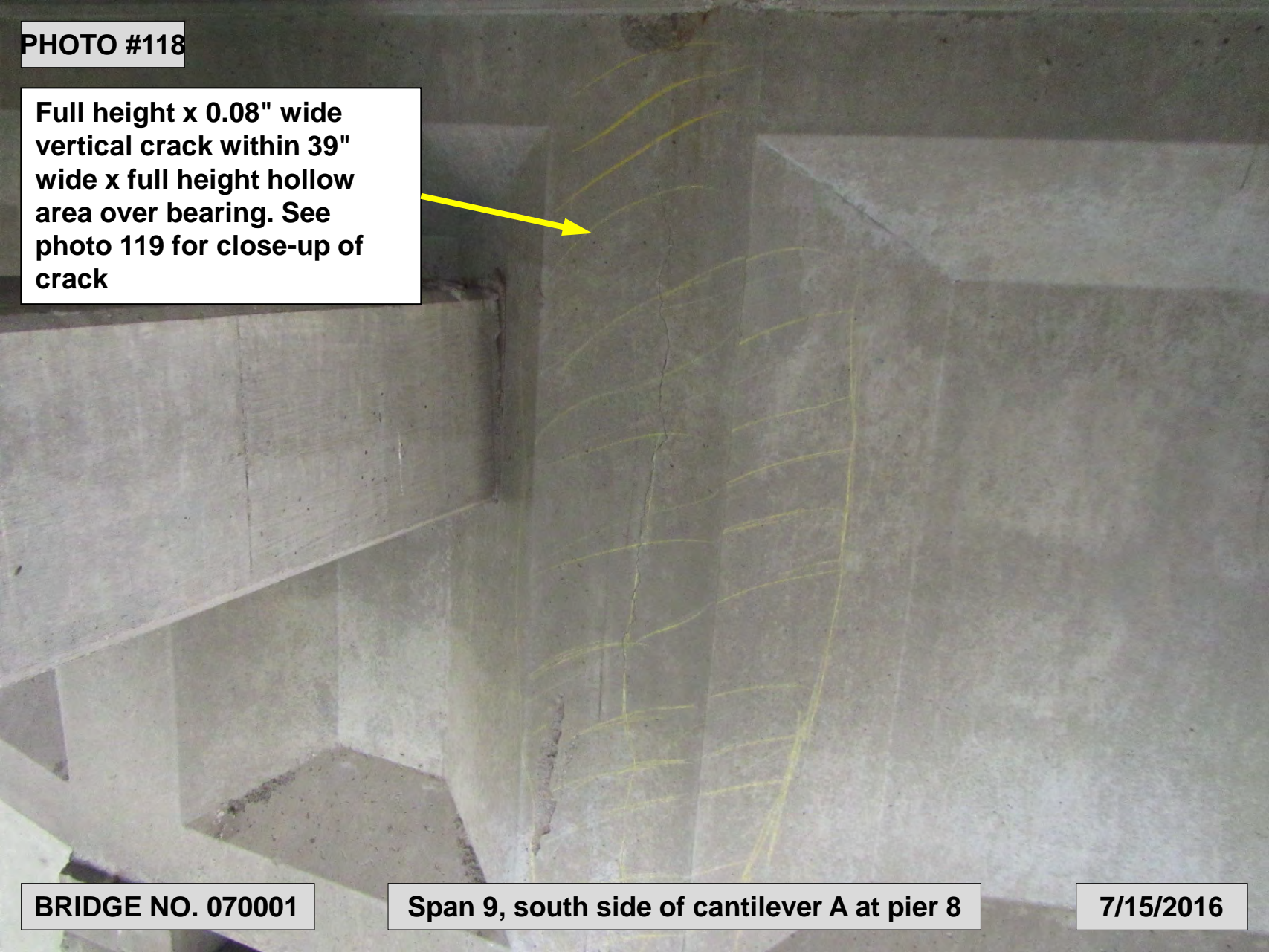
BRIDGE NO. 070001

Span 8, south side of cantilever B near pier 8

7/15/2016

PHOTO #118

Full height x 0.08" wide vertical crack within 39" wide x full height hollow area over bearing. See photo 119 for close-up of crack



BRIDGE NO. 070001

Span 9, south side of cantilever A at pier 8

7/15/2016

PHOTO #119



BRIDGE NO. 070001

Same as photo 118 showing crack width

7/15/2016

PHOTO #120

**60" long x 8" high x 1.5" deep
corner spall with exposed rebar
and (1) debonded stirrup**

**Shallow rebars up to 1/2"
deep at random locations**

BRIDGE NO. 070001

Span 10, south side of cantilever E at pier 10

7/15/2016

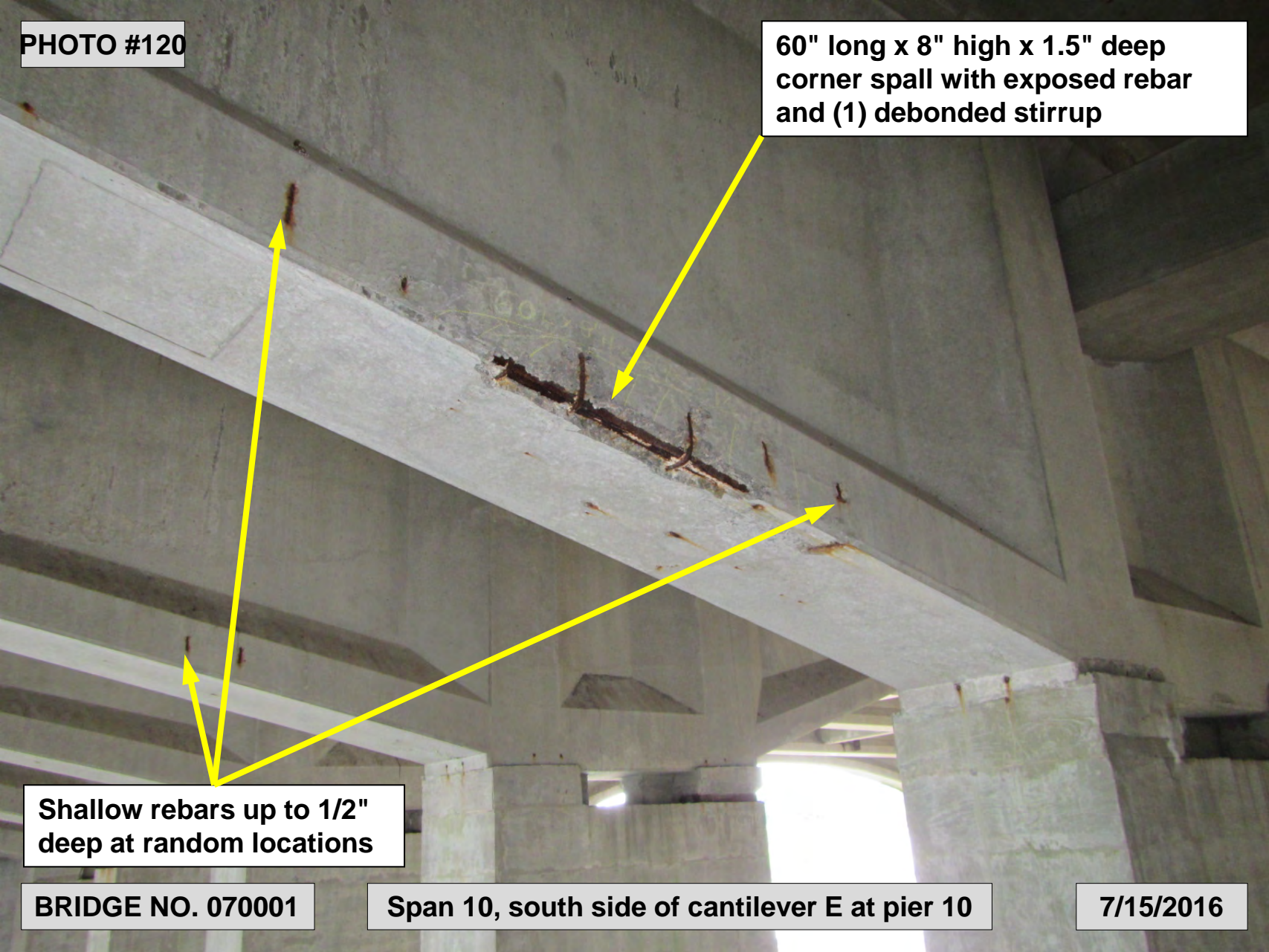


PHOTO #121

**48" long x 16" wide x 3" deep
edge spall with exposed rebar**



**Span 11, north side of cantilever B
bottom flange at pier 11**

BRIDGE NO. 070001

7/15/2016

PHOTO #122

3' long x up to full width x 2" deep spall with exposed rebar and adjacent hollow area

(5) - 4" diameter x 1/2" deep spalls with exposed rebar along centerline

BRIDGE NO. 070001

Span 11, underside of cantilever F near pier 11

7/15/2016

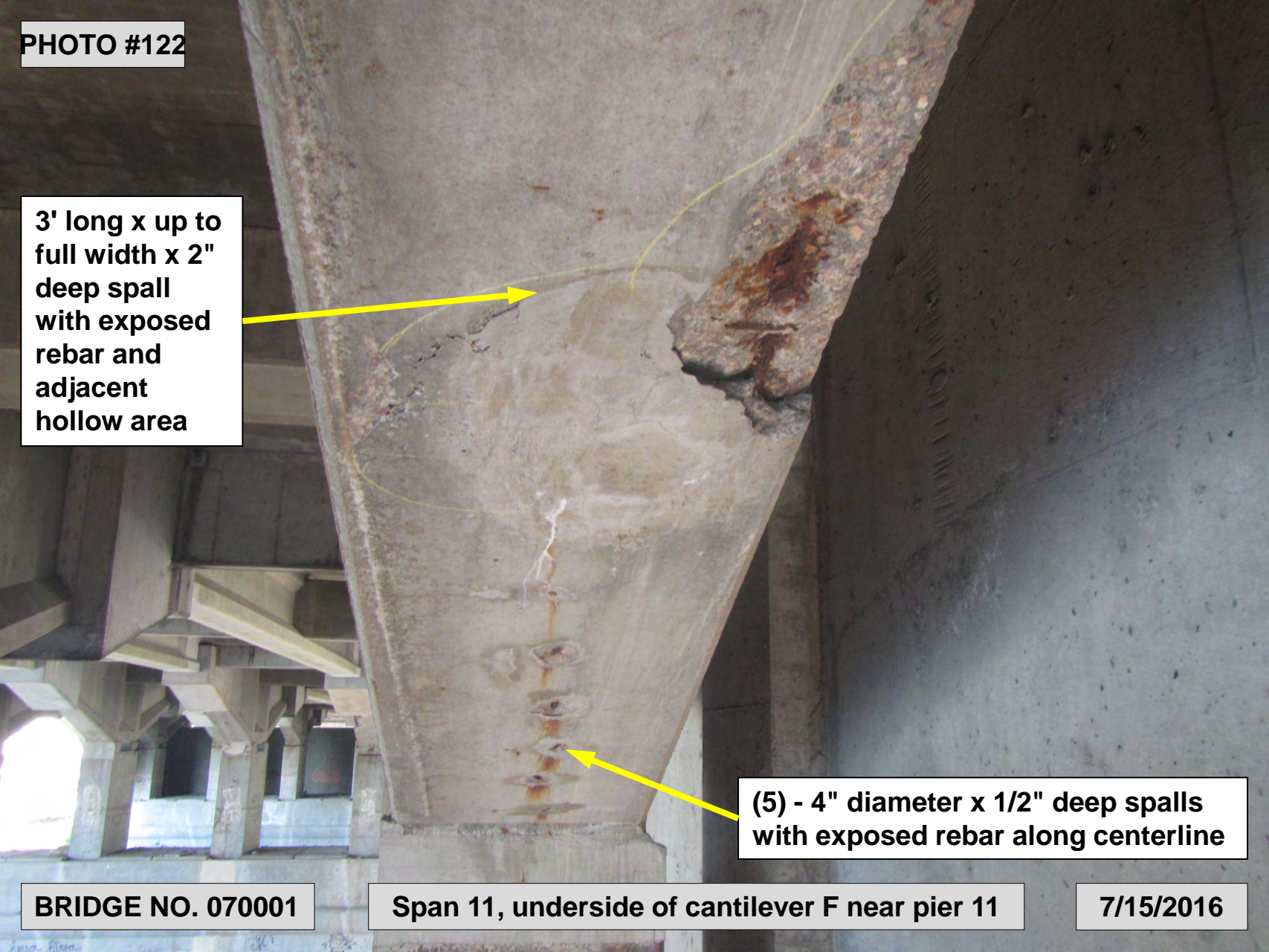


PHOTO #123

4' long x up to full width x 2" deep spall on north edge, with exposed rebars and (1) debonded stirrup. See photo 124 for close-up

**Pier 11
Column**

5' long x full width x 2.5" deep spall with (4) exposed longitudinal bars and (12) exposed stirrups

BRIDGE NO. 070001

Span 11, cantilever E bottom flange at pier 11

7/15/2016

PHOTO #124

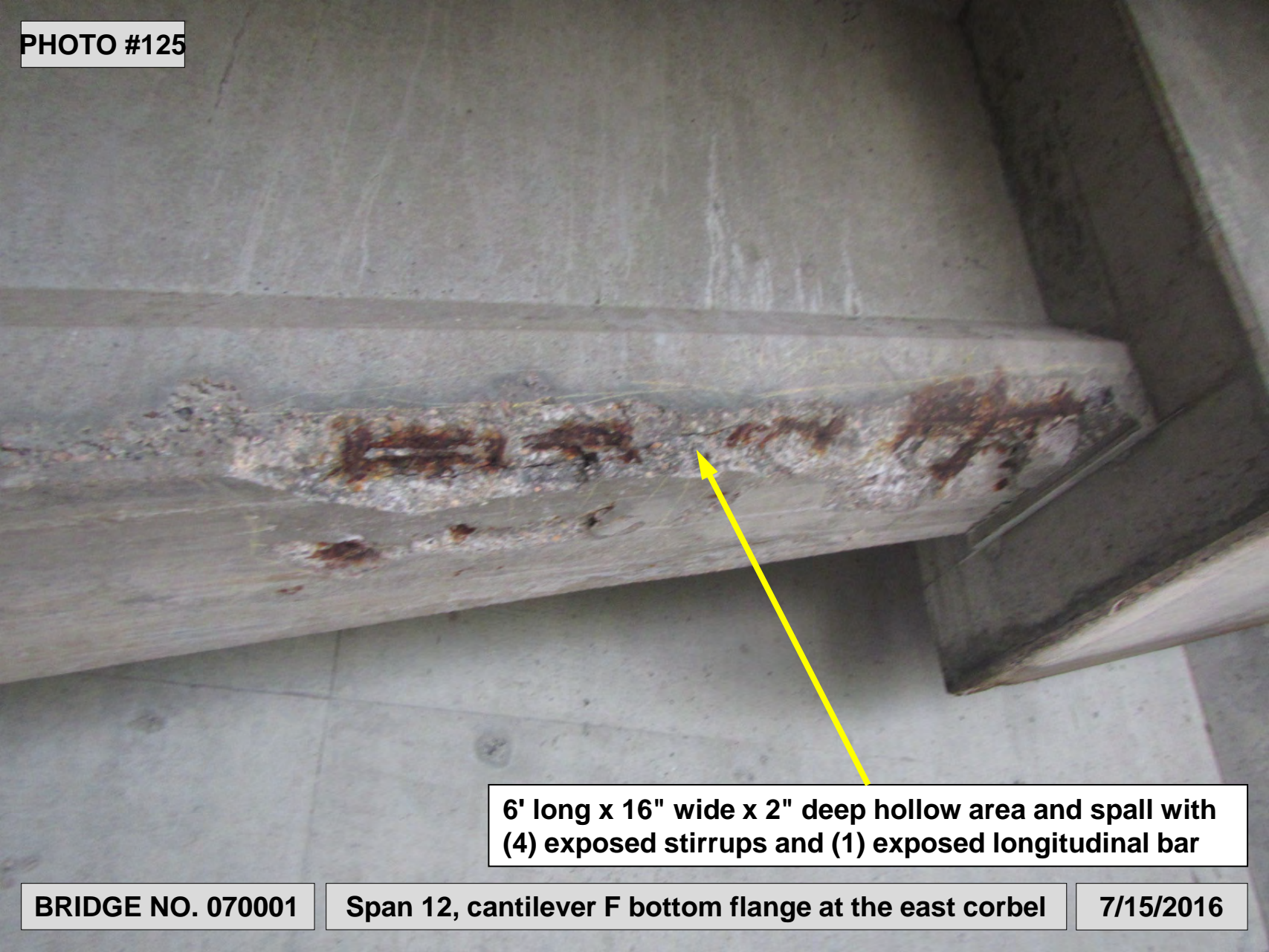


**Same as photo 123 showing close-up
of spall adjacent to pier 11 column**

BRIDGE NO. 070001

7/15/2016

PHOTO #125



6' long x 16" wide x 2" deep hollow area and spall with (4) exposed stirrups and (1) exposed longitudinal bar

BRIDGE NO. 070001

Span 12, cantilever F bottom flange at the east corbel

7/15/2016

PHOTO #126



8' long x 14" wide x 2" deep spall with (2) exposed longitudinal bars, (2) snapped stirrups and a 6" diameter adjacent hollow area

BRIDGE NO. 070001

Span 12, cantilever E bottom flange at the east corbel

7/15/2016

PHOTO #127



**9' long x up to full width x 3"
deep spall with exposed
stirrups and longitudinal bars**

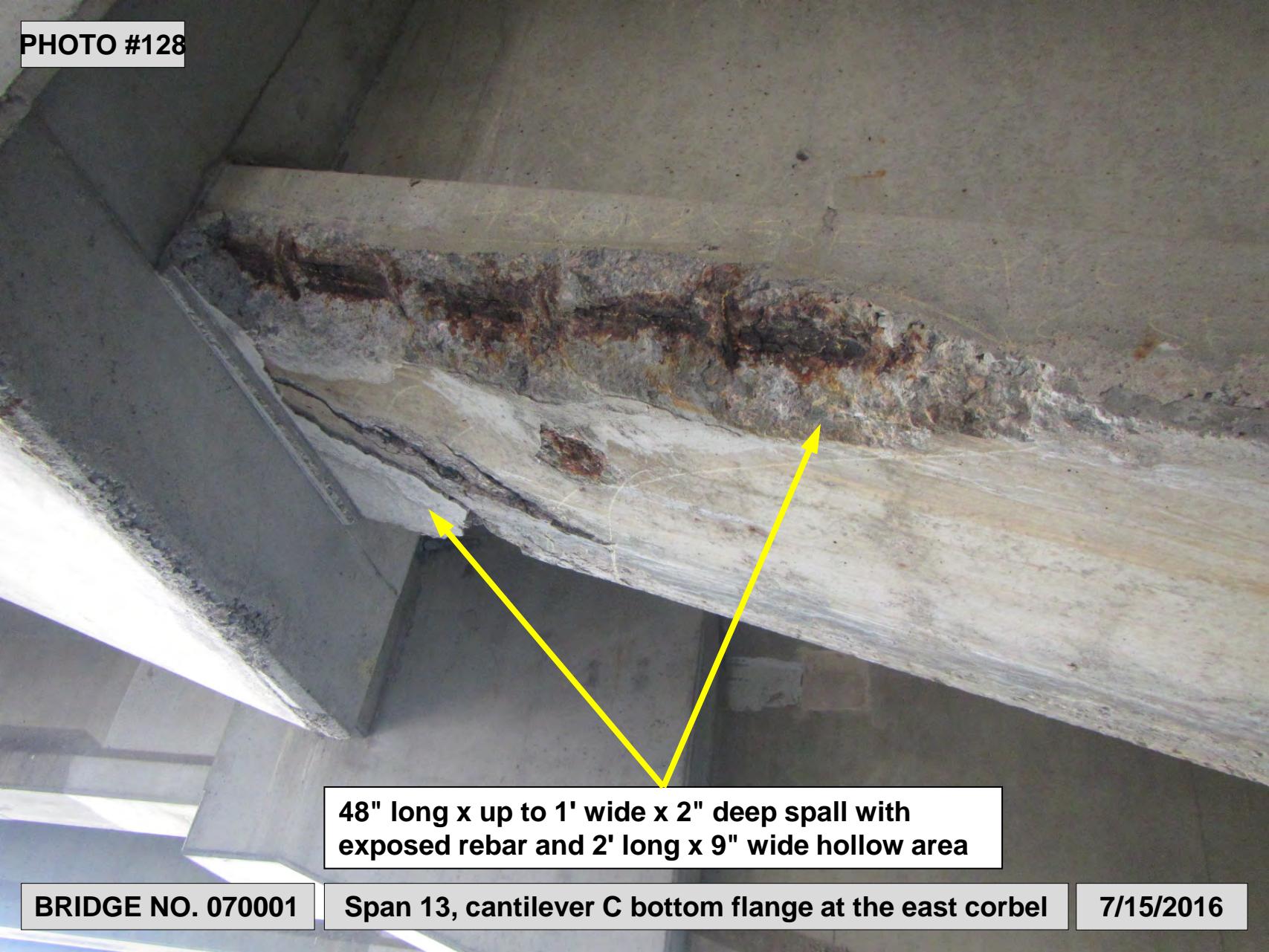


BRIDGE NO. 070001

Span 13, cantilever D bottom flange at pier 13

7/15/2016

PHOTO #128



48" long x up to 1' wide x 2" deep spall with exposed rebar and 2' long x 9" wide hollow area

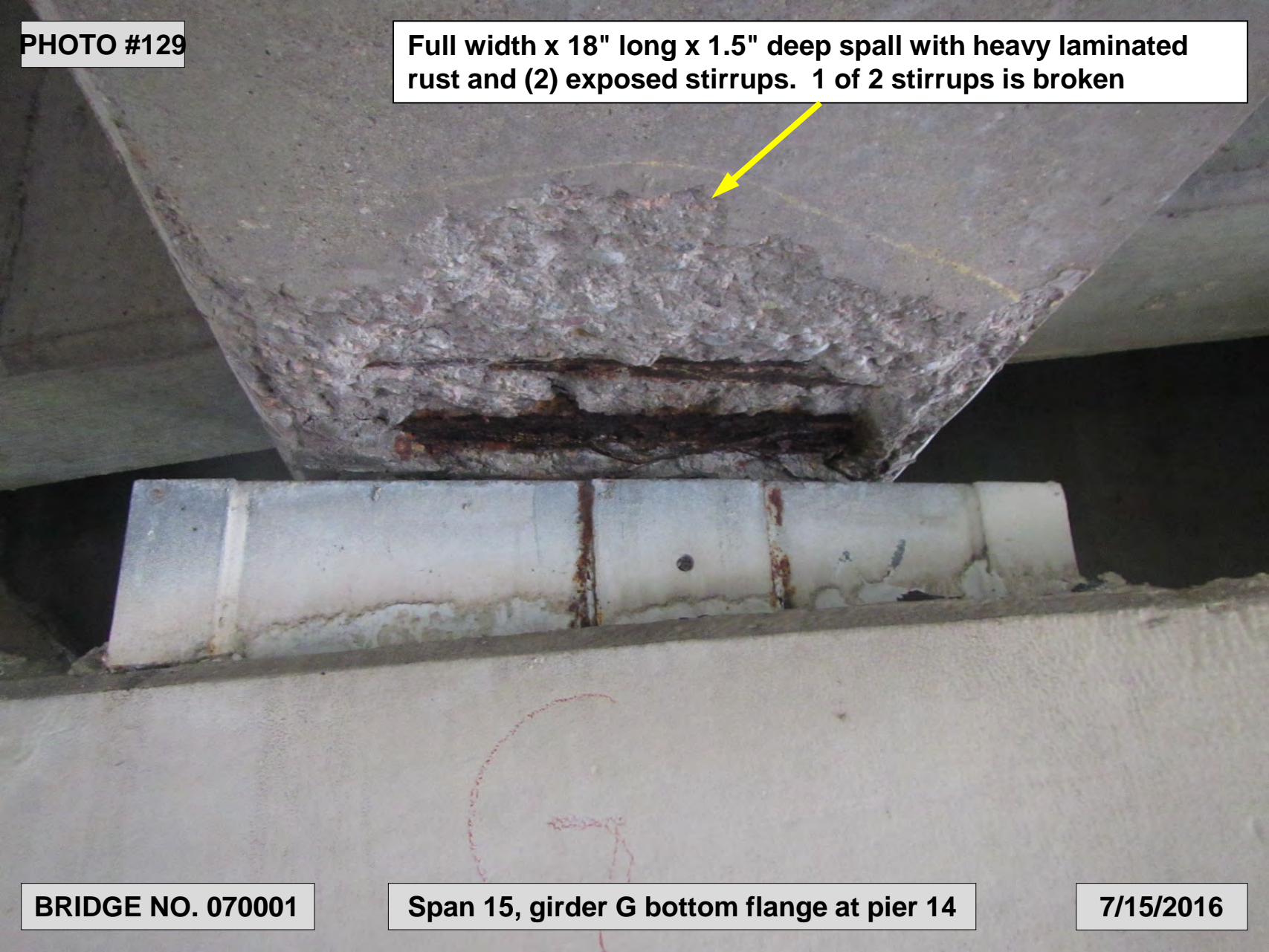
BRIDGE NO. 070001

Span 13, cantilever C bottom flange at the east corbel

7/15/2016

PHOTO #129

Full width x 18" long x 1.5" deep spall with heavy laminated rust and (2) exposed stirrups. 1 of 2 stirrups is broken



BRIDGE NO. 070001

Span 15, girder G bottom flange at pier 14

7/15/2016

PHOTO #130



32" long x 0.016" wide diagonal/shear crack on web. See photo 131 for close-up of crack width

BRIDGE NO. 070001

Span 15, north side of girder A at pier 15

7/15/2016

PHOTO #131

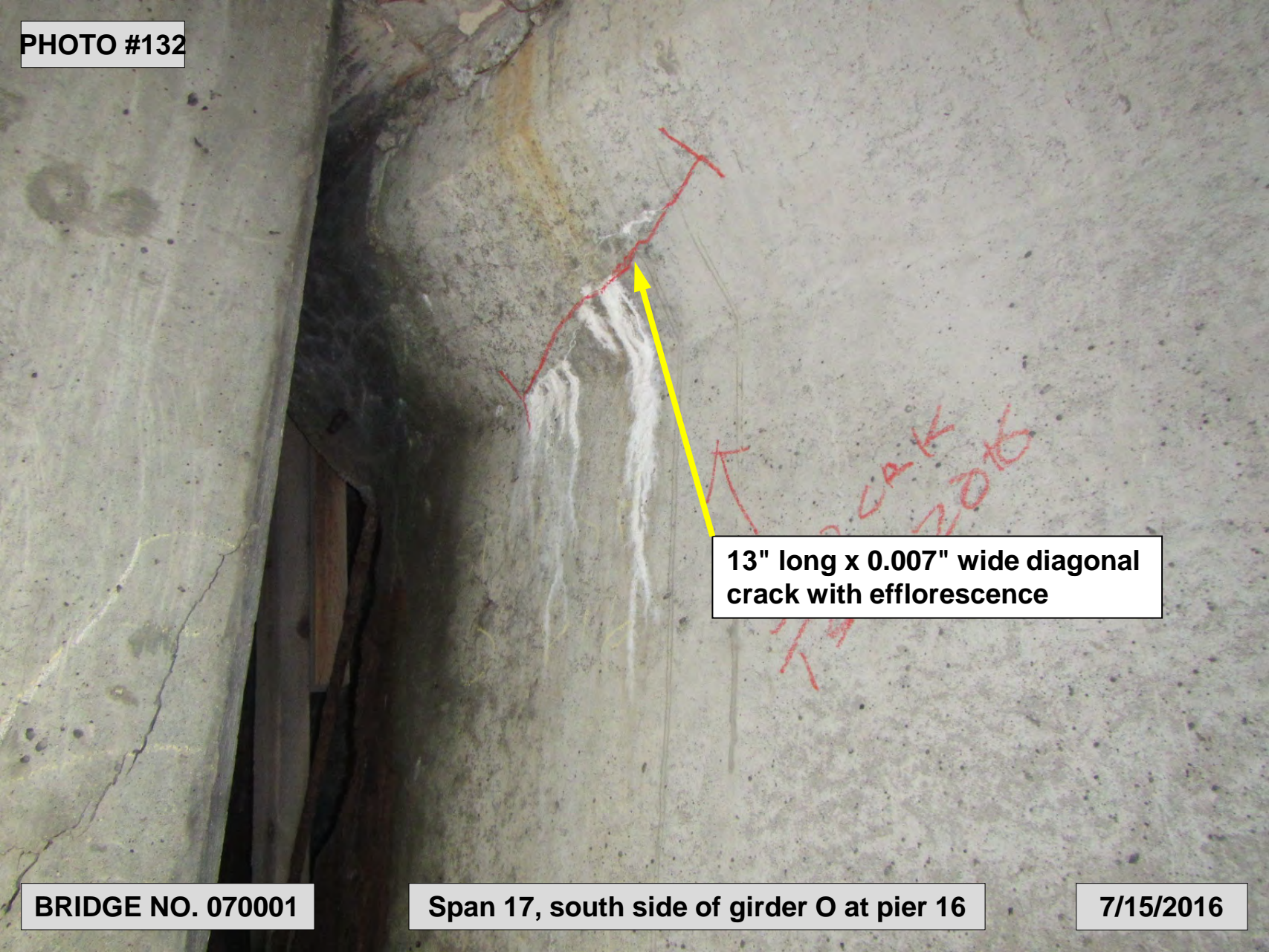


BRIDGE NO. 070001

Same as photo 130 showing crack width

7/15/2016

PHOTO #132



13" long x 0.007" wide diagonal crack with efflorescence

BRIDGE NO. 070001

Span 17, south side of girder O at pier 16

7/15/2016

PHOTO #133

Full width x 16" long x 1.5" deep spall with two exposed strands with broken wires

Full width x 12" long x 1" deep spall with exposed stirrups

Two spalls up to 9" long x 6" wide x 1/2" deep spall with exposed rebar and up to 10% section loss on exposed bars, and 10" long x 7" wide x 1/2" deep spall with exposed rebar

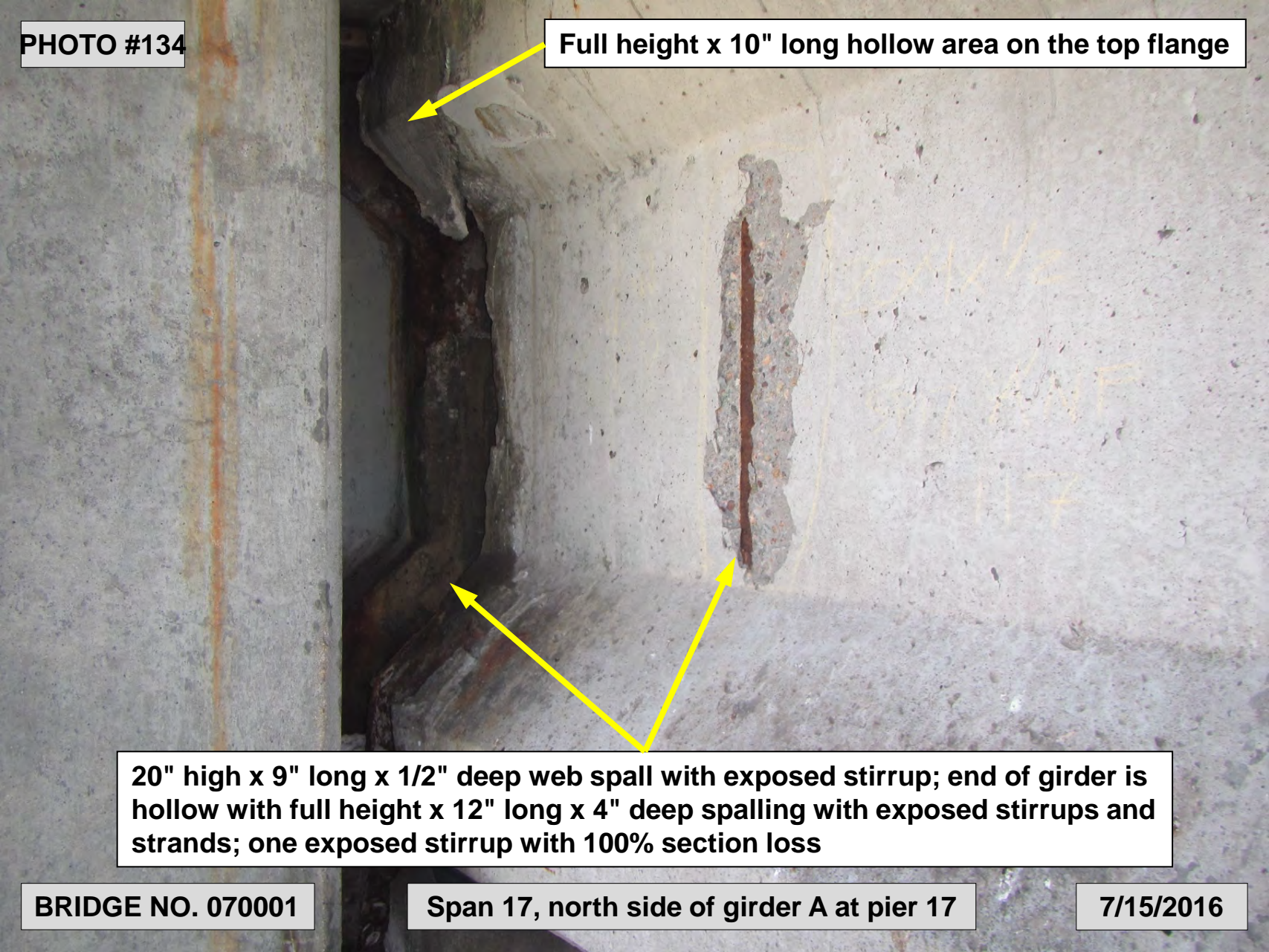
BRIDGE NO. 070001

Span 16, bottom flange of girder N near pier 15

7/15/2016

PHOTO #134

Full height x 10" long hollow area on the top flange



20" high x 9" long x 1/2" deep web spall with exposed stirrup; end of girder is hollow with full height x 12" long x 4" deep spalling with exposed stirrups and strands; one exposed stirrup with 100% section loss

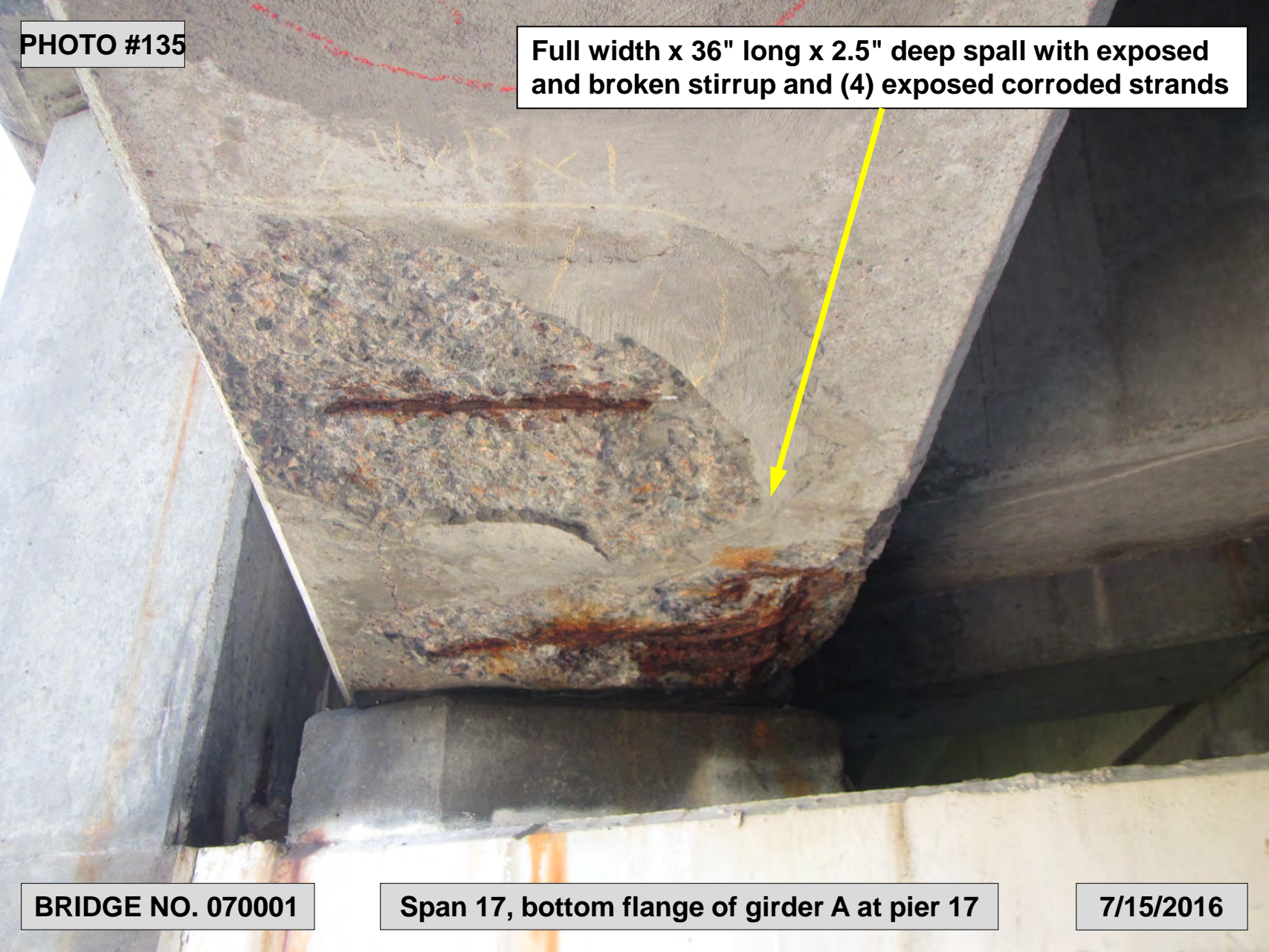
BRIDGE NO. 070001

Span 17, north side of girder A at pier 17

7/15/2016

PHOTO #135

Full width x 36" long x 2.5" deep spall with exposed and broken stirrup and (4) exposed corroded strands



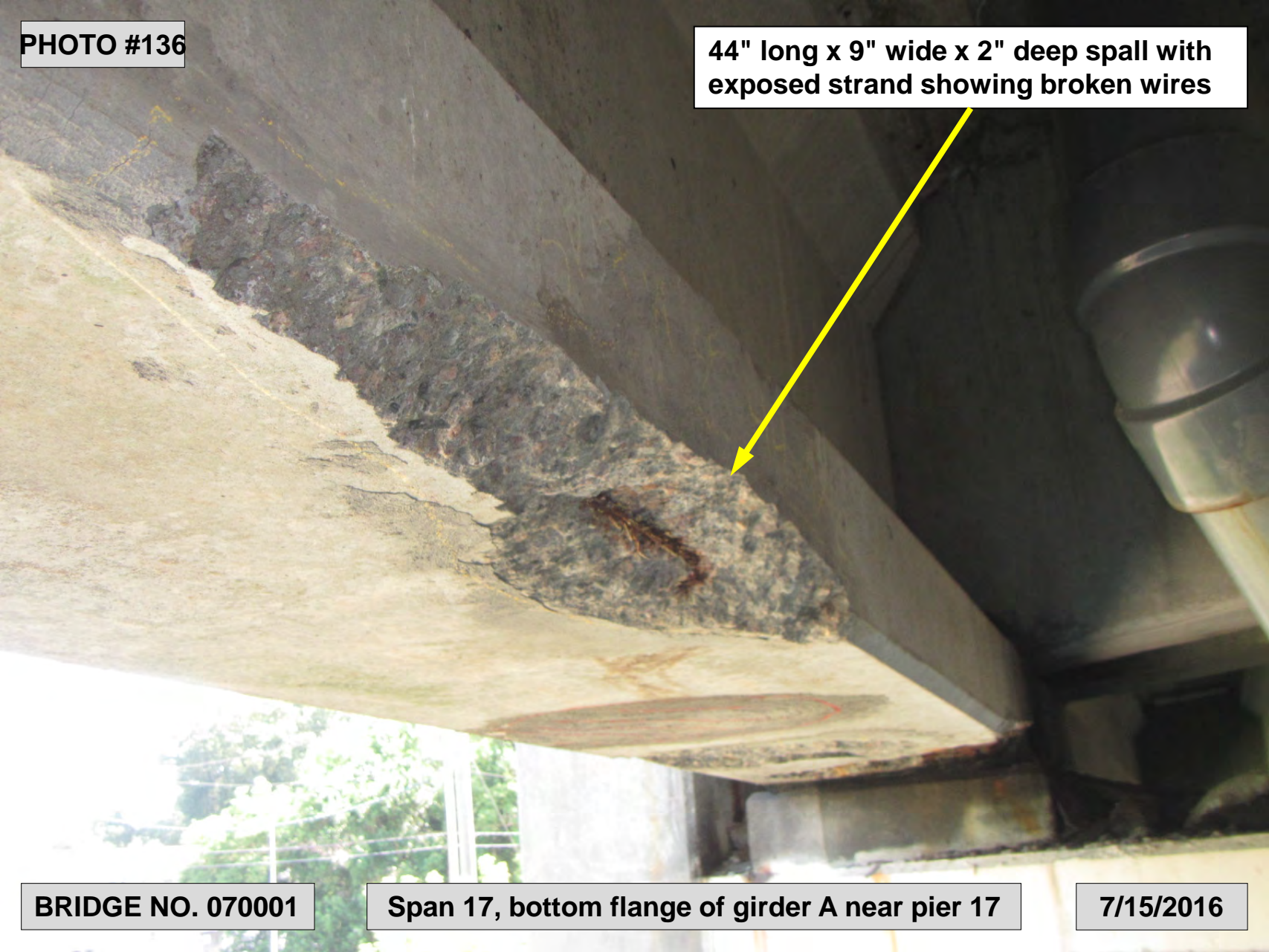
BRIDGE NO. 070001

Span 17, bottom flange of girder A at pier 17

7/15/2016

PHOTO #136

44" long x 9" wide x 2" deep spall with exposed strand showing broken wires

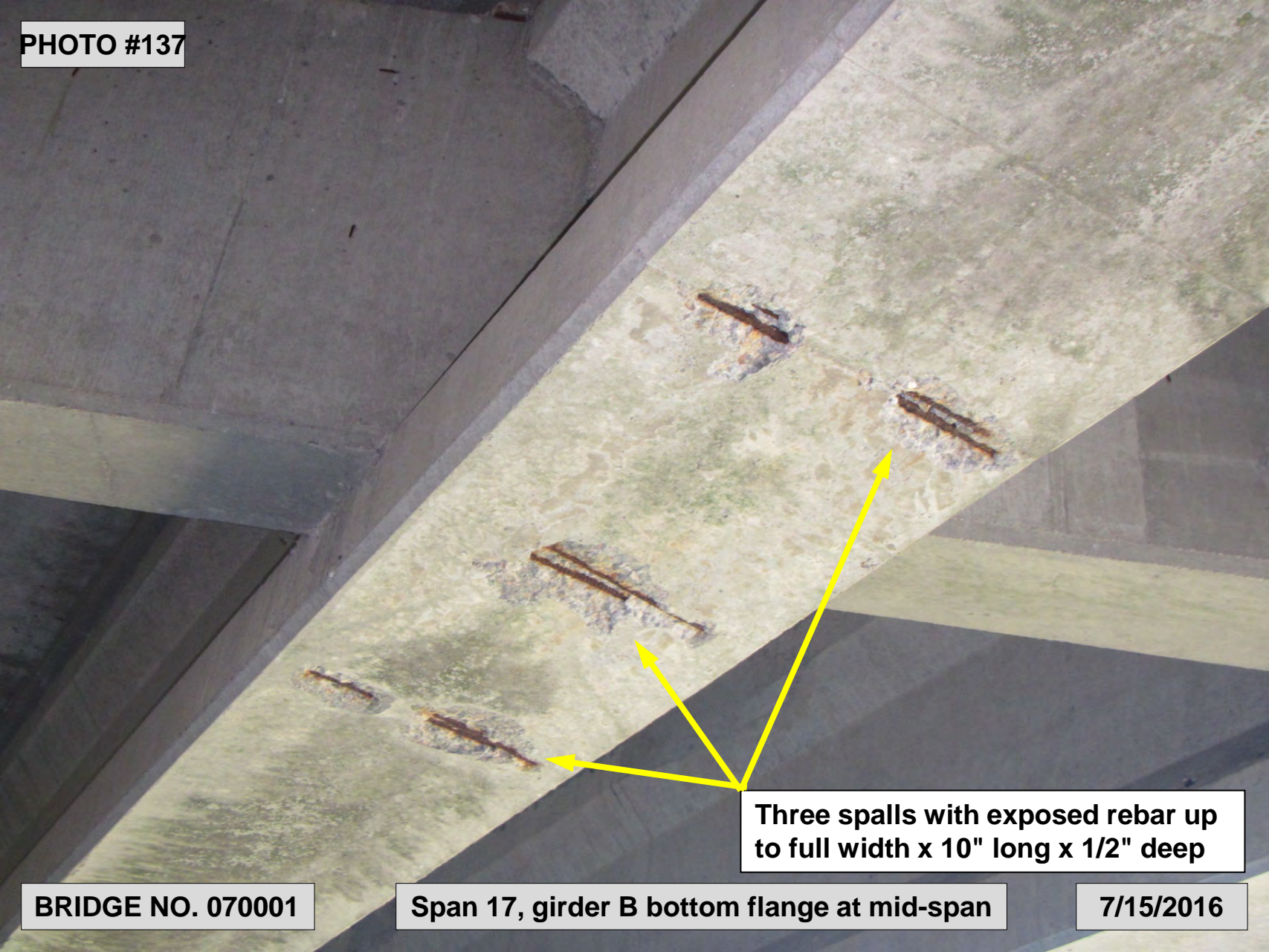


BRIDGE NO. 070001

Span 17, bottom flange of girder A near pier 17

7/15/2016

PHOTO #137



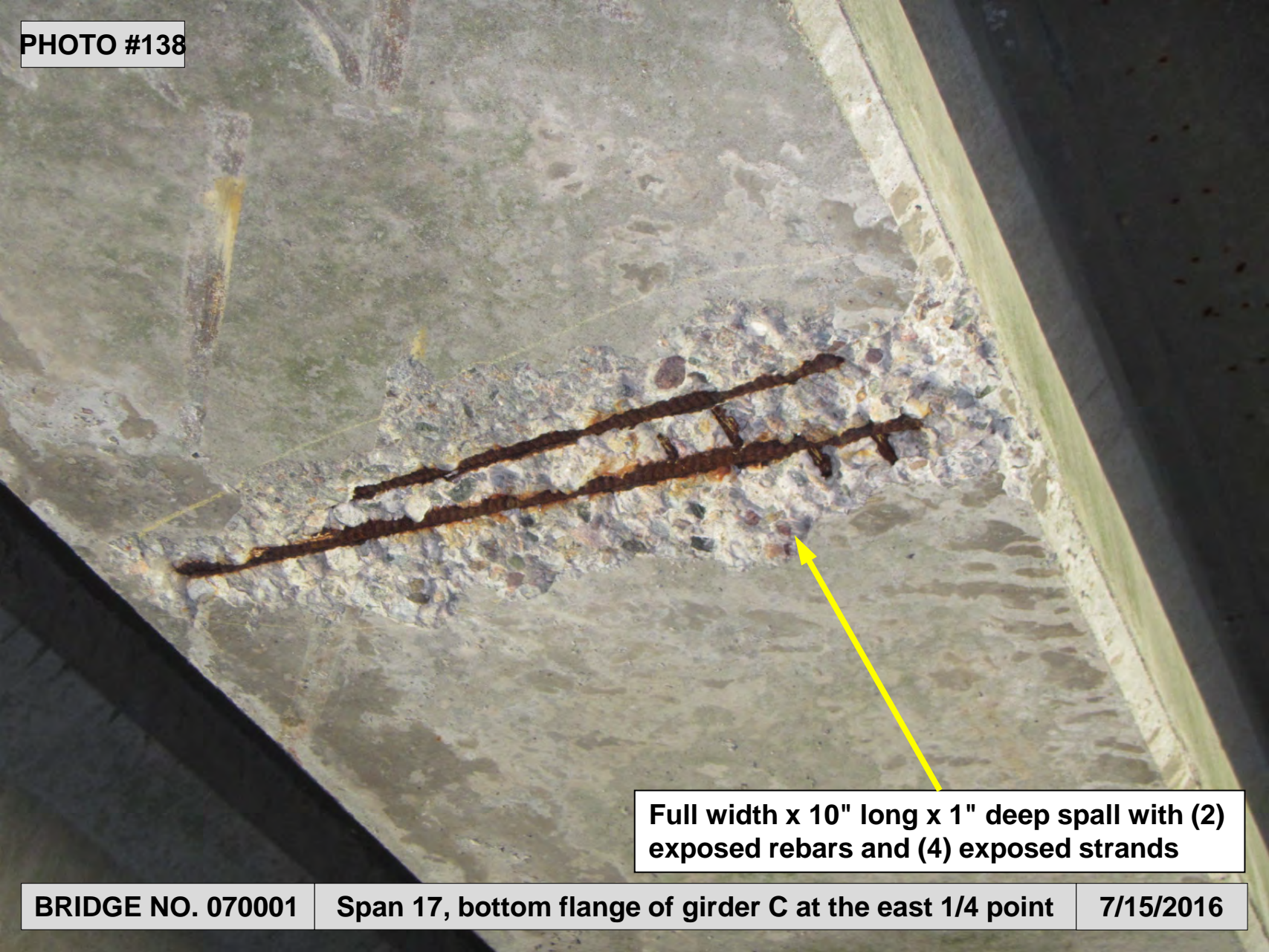
Three spalls with exposed rebar up to full width x 10" long x 1/2" deep

BRIDGE NO. 070001

Span 17, girder B bottom flange at mid-span

7/15/2016

PHOTO #138



Full width x 10" long x 1" deep spall with (2) exposed rebar and (4) exposed strands

BRIDGE NO. 070001

Span 17, bottom flange of girder C at the east 1/4 point

7/15/2016

PHOTO #139

Up to full width x 42" long x 2" deep spall, with (4) exposed strands showing broken wires; adjacent 18" long x 2" wide x 2" high corner/edge spall with (2) exposed and broken stirrups; remaining exposed stirrups show up to 50%± section loss. See photo 140 for close-up



BRIDGE NO. 070001

Span 17, bottom flange of girder I at pier 16

7/15/2016

PHOTO #140



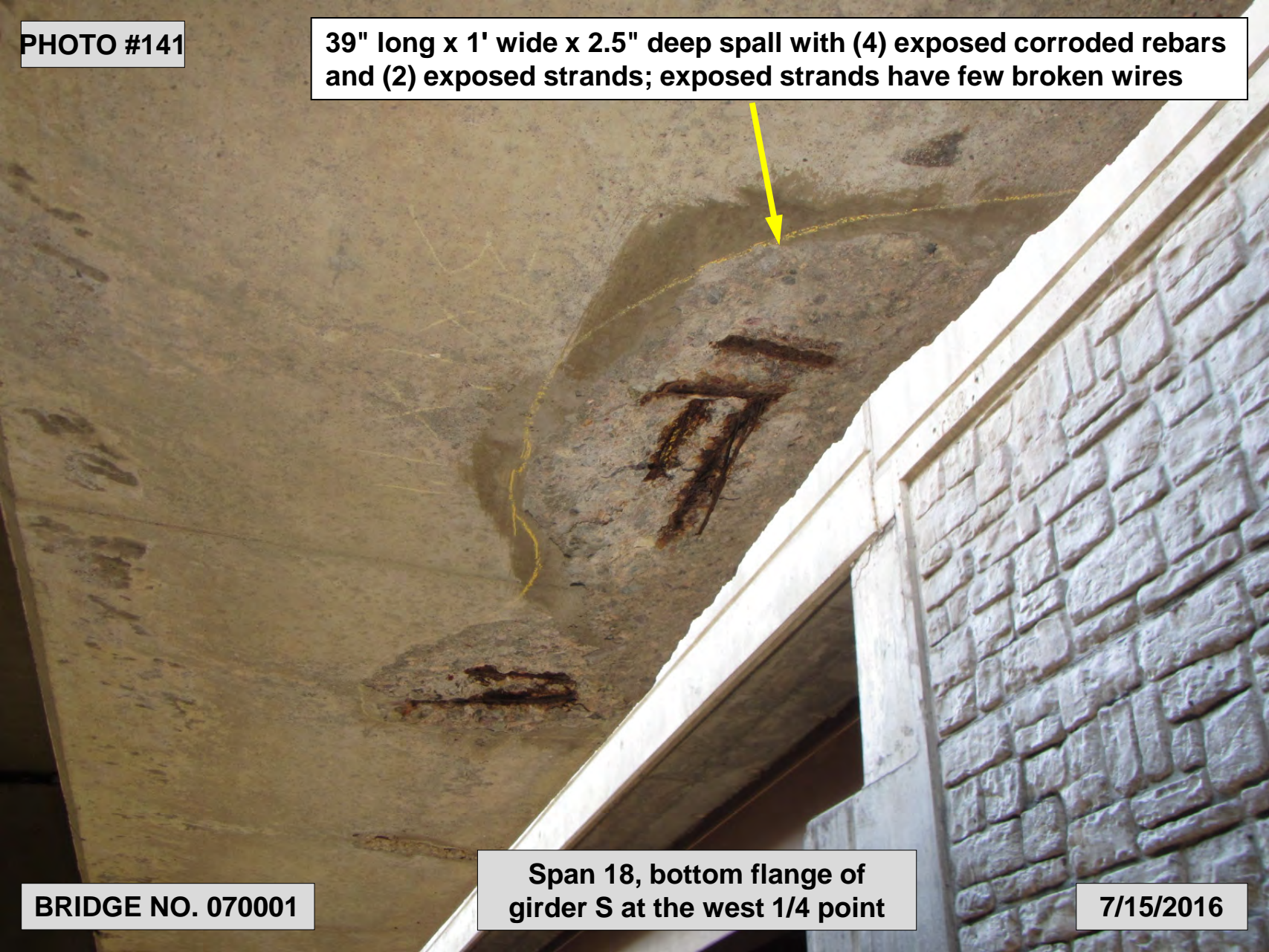
BRIDGE NO. 070001

Same as photo 139 showing broken stirrups at spall and broken strand wires

7/15/2016

PHOTO #141

39" long x 1' wide x 2.5" deep spall with (4) exposed corroded rebars and (2) exposed strands; exposed strands have few broken wires



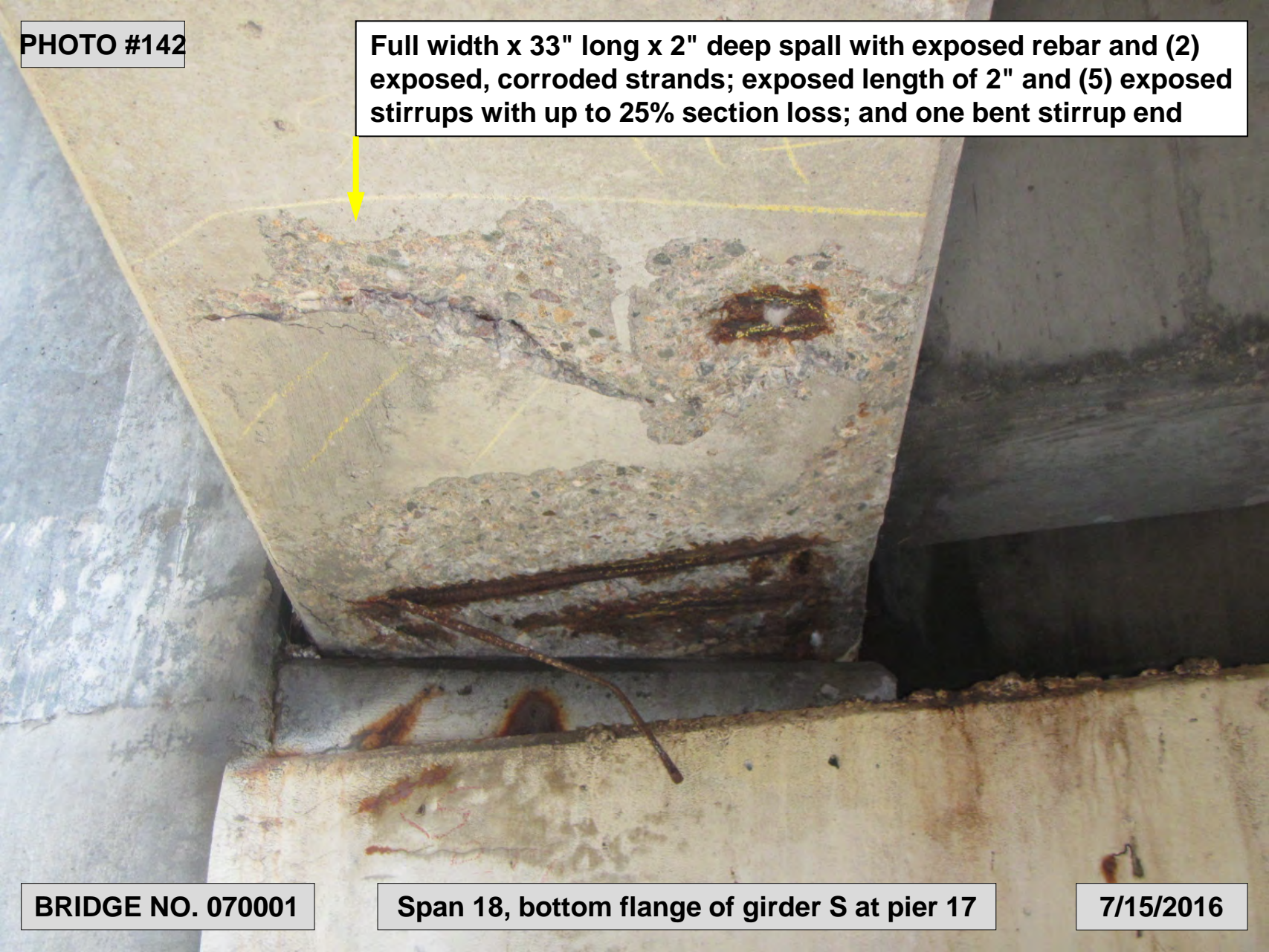
BRIDGE NO. 070001

**Span 18, bottom flange of
girder S at the west 1/4 point**

7/15/2016

PHOTO #142

Full width x 33" long x 2" deep spall with exposed rebar and (2) exposed, corroded strands; exposed length of 2" and (5) exposed stirrups with up to 25% section loss; and one bent stirrup end



BRIDGE NO. 070001

Span 18, bottom flange of girder S at pier 17

7/15/2016

PHOTO #143

**(14) spalls with exposed stirrups
up to full width x 9" long x 1" deep**



BRIDGE NO. 070001

Span 18, bottom flange of girder O west half

7/15/2016

PHOTO #144

Full height x up to 10" wide spall and hollow area with 1/4" wide full height vertical crack



BRIDGE NO. 070001

Span 18, south side of girder G at pier 17

7/15/2016

PHOTO #145

Full width x 52" long x up to 3" deep spall with exposed rebar and (4) exposed strands, continuous over the bearing. 3 of 4 strands have broken wires, (2) exposed stirrups are broken. See photo 146 for close-up



BRIDGE NO. 070001

**Span 18, bottom flange of
girder S at the east abutment**

7/15/2016

PHOTO #146



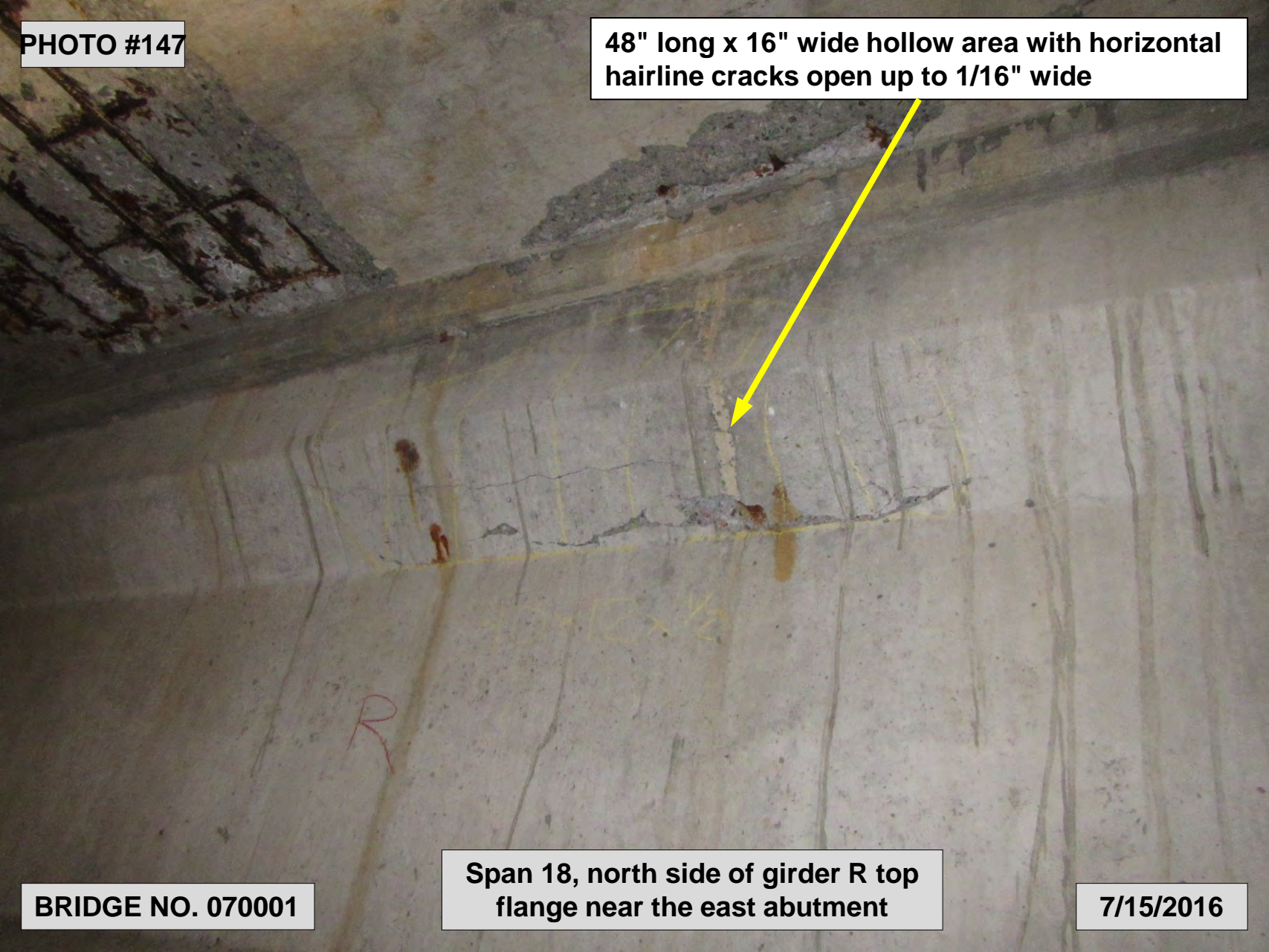
BRIDGE NO. 070001

**Same as photo 145 showing exposed strands
with broken wires, and broken stirrups**

7/15/2016

PHOTO #147

48" long x 16" wide hollow area with horizontal hairline cracks open up to 1/16" wide



BRIDGE NO. 070001

Span 18, north side of girder R top flange near the east abutment

7/15/2016

PHOTO #148



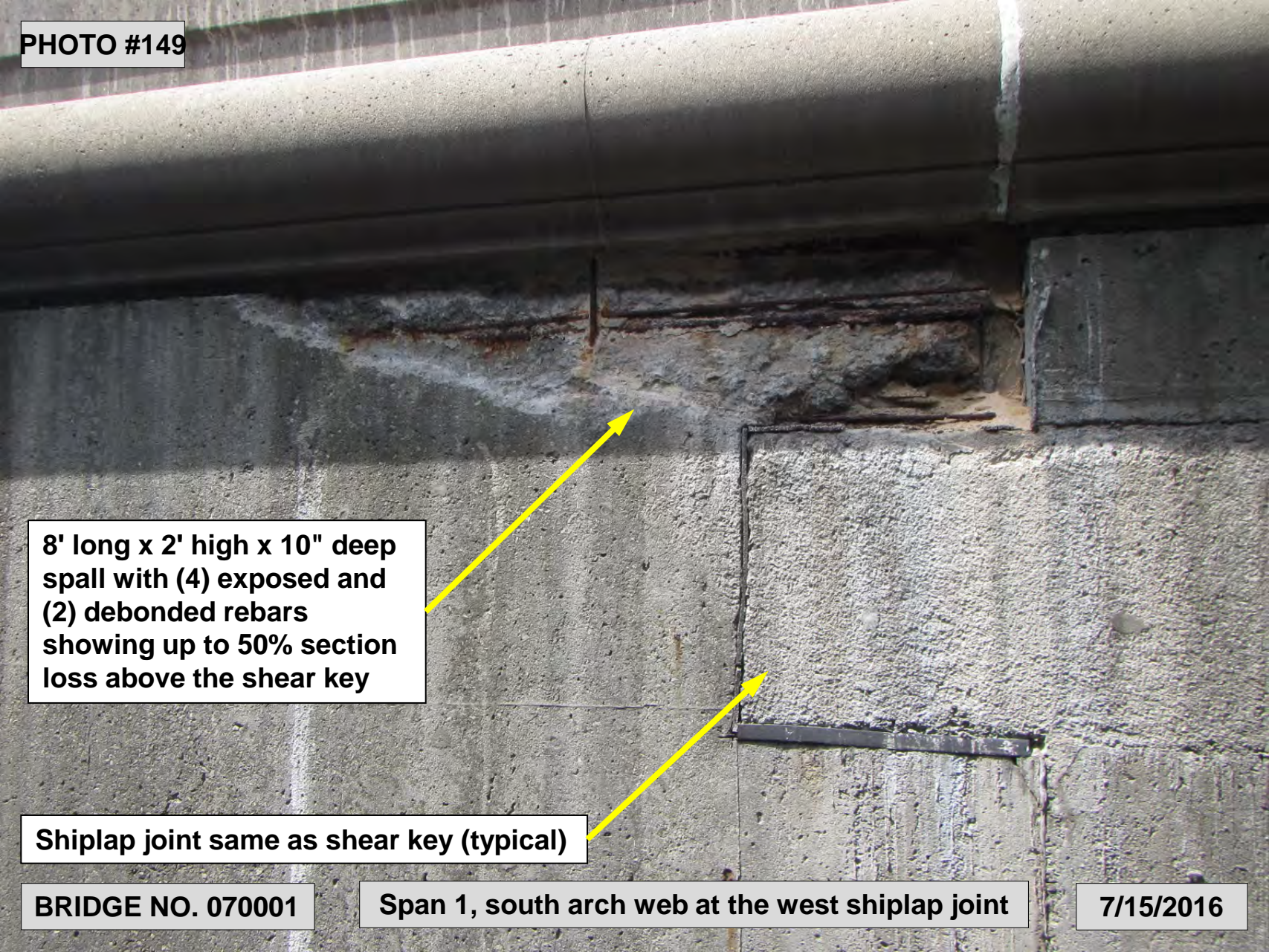
Impact scrapes

BRIDGE NO. 070001

Span 18, bottom flange of girder B near mid-span

7/15/2016

PHOTO #149



**8' long x 2' high x 10" deep
spall with (4) exposed and
(2) debonded rebar
showing up to 50% section
loss above the shear key**

Shiplap joint same as shear key (typical)

BRIDGE NO. 070001

Span 1, south arch web at the west shiplap joint

7/15/2016

PHOTO #150



**13.5' long x up to 22" wide x 8" high
x 3" deep spall/hollow area at
patch. Also note rust stains**

BRIDGE NO. 070001

Span 1, south arch underside, east portion

7/15/2016

PHOTO #151

2.5' long x 22" high x up to full depth spall with exposed rebar and 14" high x 12" wide x full depth hole



BRIDGE NO. 070001

Span 2, south arch web at the west shiplap joint

7/15/2016

PHOTO #152

Full width x 12" long x 4" deep spall with exposed rebar at joint

Intermittent full length (35'±) x full width x 4" deep spall/hollow area with exposed wire cage and rebars with up to 100% loss and debonded; exposed concrete at spall is loose

BRIDGE NO. 070001

Span 5, south arch, east half

7/15/2016

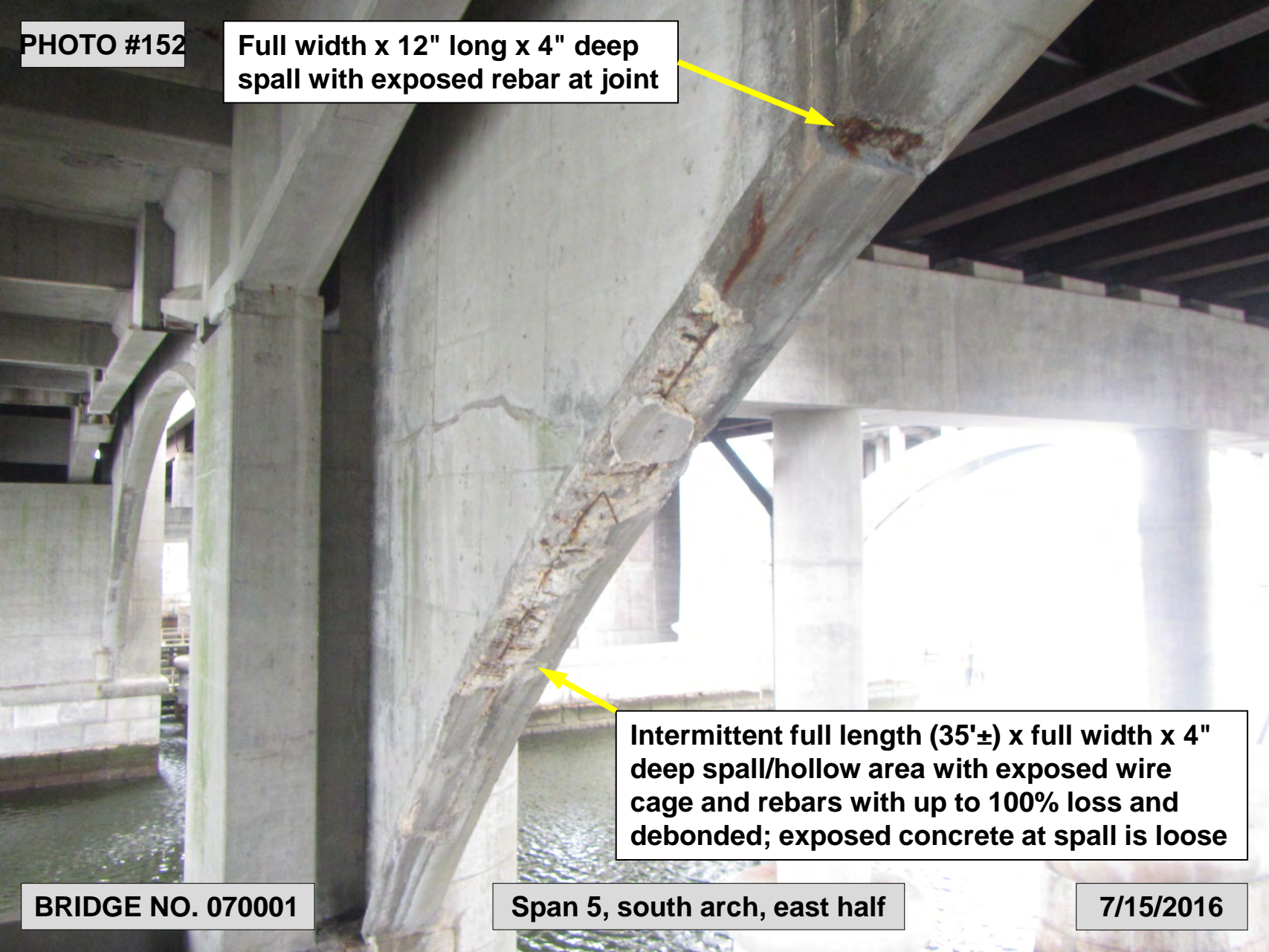


PHOTO #153

3.5' high x 12" wide x 6" deep spall above joint key with exposed wire mesh

20" long x 14" high x 3" deep spall/hollow area below joint key undermines bearing pad 4" long x 3" deep

BRIDGE NO. 070001

Span 9, south arch at the east shiplap joint

7/15/2016

PHOTO #154

**5' long x 18" high x up to 12" deep
spall with exposed rebar**

**Elastomeric bearing pad is
crushed with bulging and splits**

**10" high x 3" wide
hollow area below pad**

BRIDGE NO. 070001

Span 6, south arch at the west shiplap joint

7/15/2016

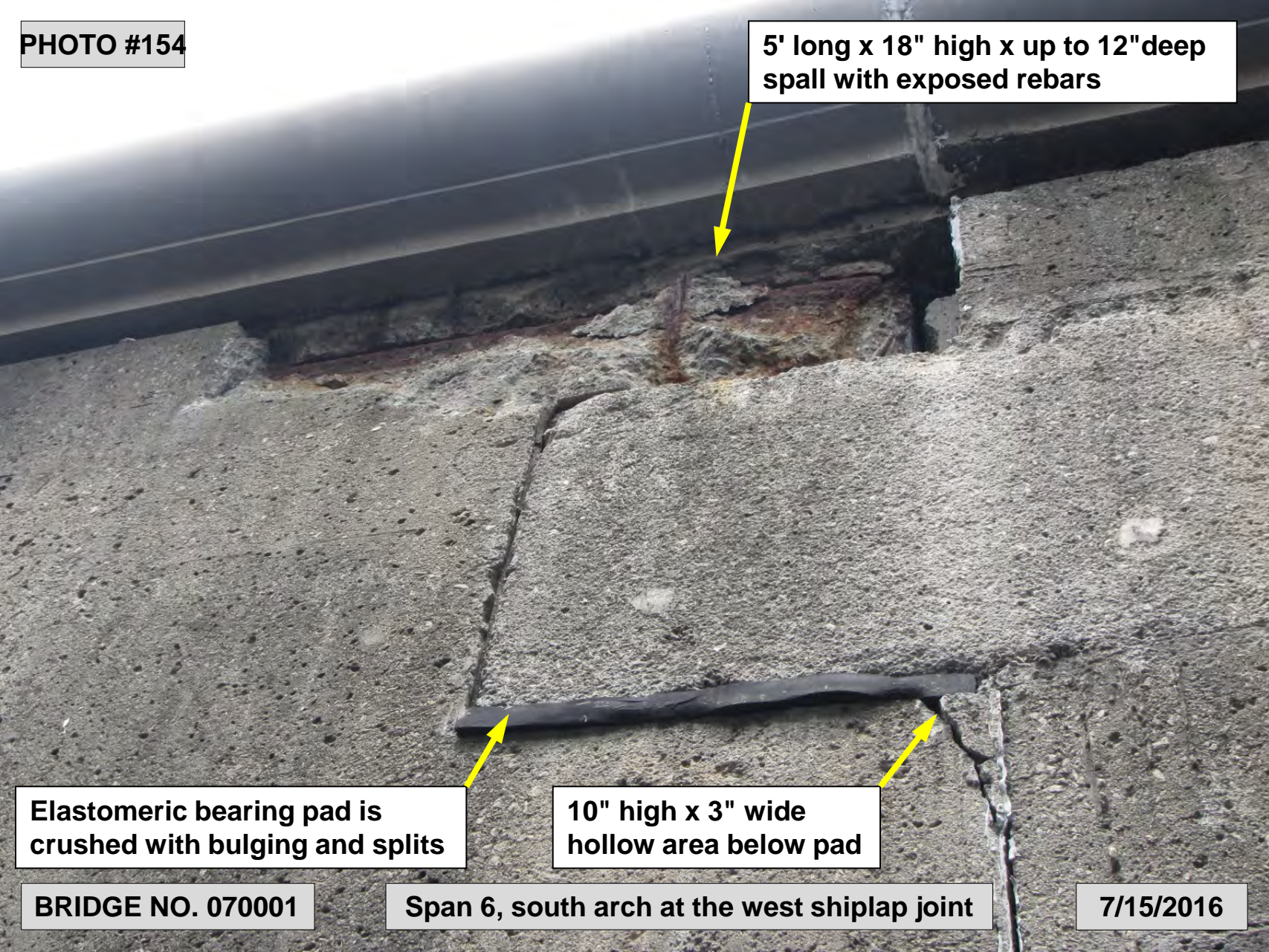


PHOTO #155

80" long x full width x up to 7" deep spall with multiple debonded/corroded rebars with up to 15% section loss, and intermittent full length x up to 18" wide hollow areas along the south edge of underside

BRIDGE NO. 070001

Span 8, north arch, west portion

7/15/2016

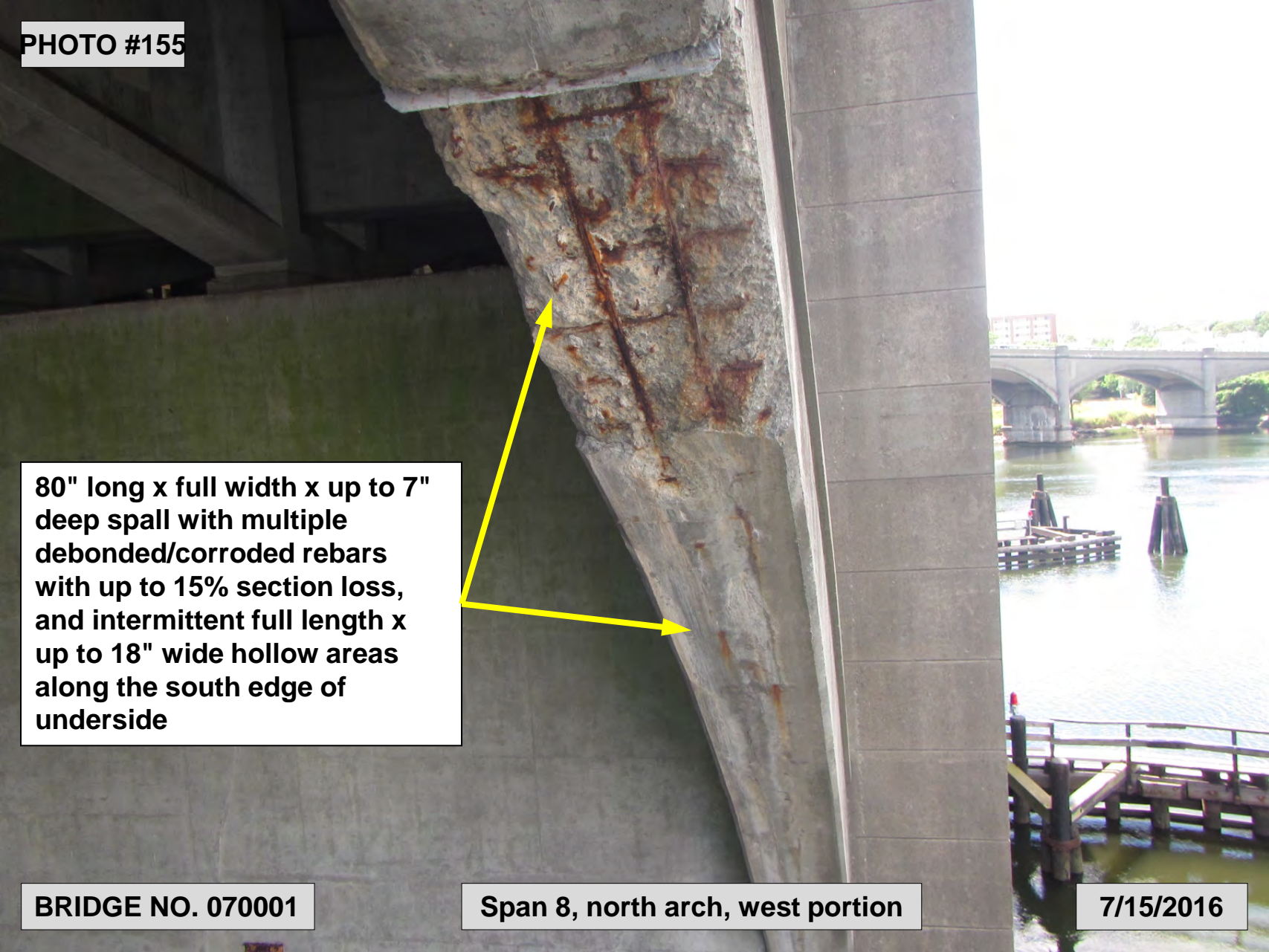


PHOTO #156

Full width x 40" long x 4.5" deep spall with exposed rebar and adjacent hollow area

Intermittent full length x up to full width x up to 3" deep spall/hollow area with exposed wire cage and debonded rebars with up to 100% section loss. Active leakage and efflorescence noted at spall

BRIDGE NO. 070001

Span 8, south arch, east portion

7/15/2016

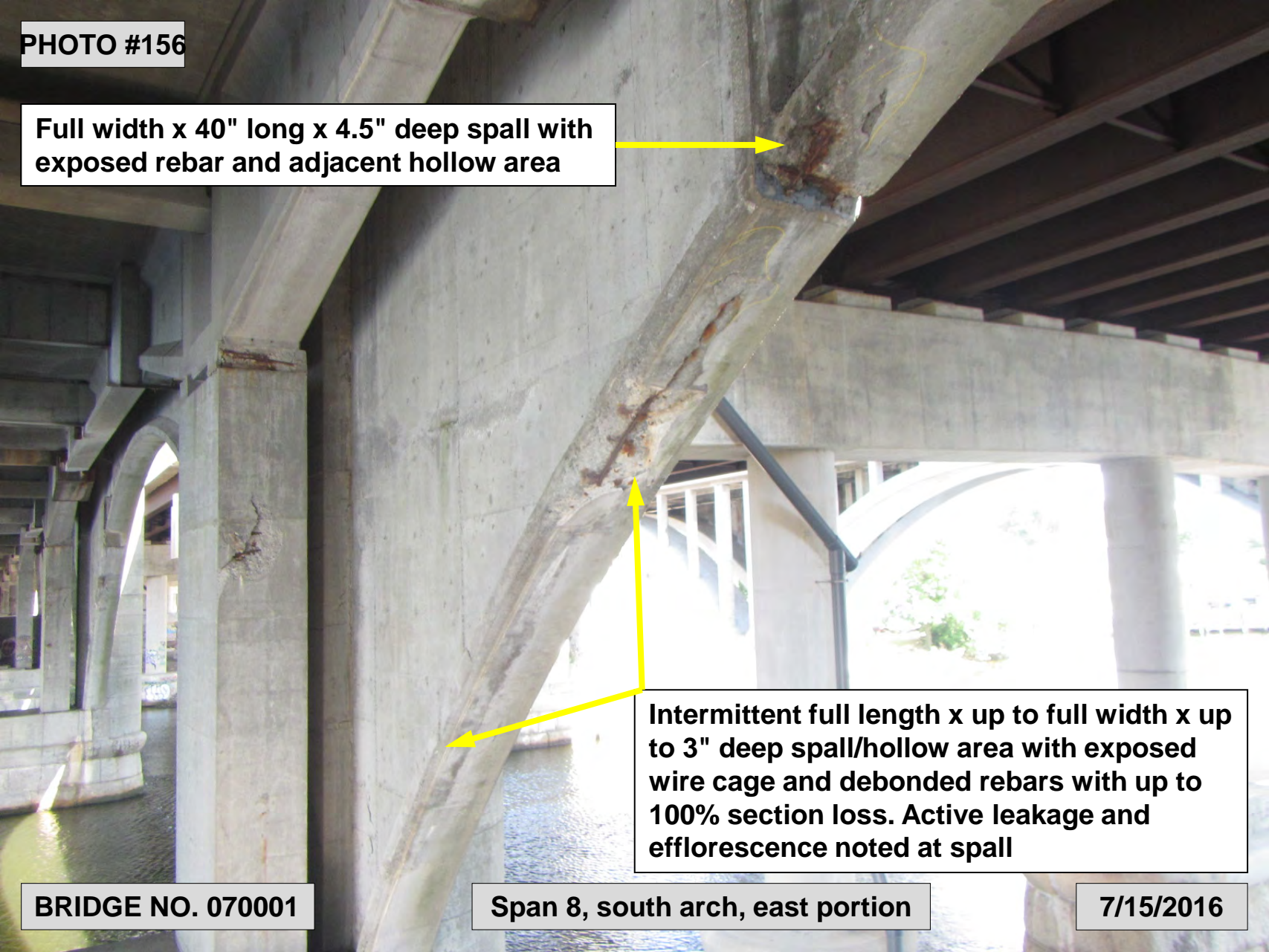


PHOTO #157

Full length x full width x up to 4" deep spall/hollow area with exposed rebar showing up to 10% section loss



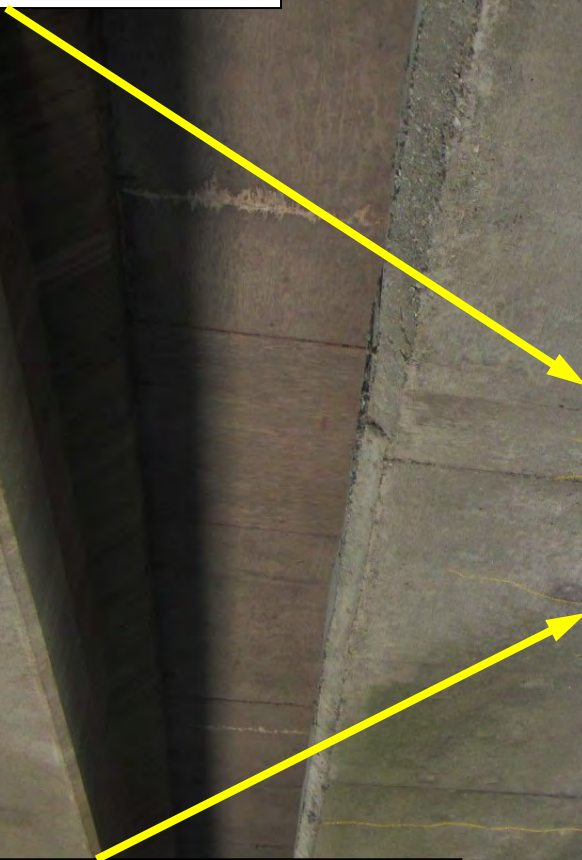
BRIDGE NO. 070001

Span 9, south arch, west portion

7/15/2016

PHOTO #158

1' long x 1' wide hollow area



Longitudinal and transverse hairline cracks (similar at scattered locations)



BRIDGE NO. 070001

Span 4, south arch bottom flange at crown region

7/15/2016

PHOTO #159

Full height x 1/2" wide cut through the joint key and no elastomeric pad is installed

91" long x full width x 5" deep spall/hollow area with multiple exposed rusted rebars with up to 30% section loss

BRIDGE NO. 070001

Span 5, north arch at the west shiplap joint

7/15/2016

PHOTO #160

Vertical misalignment at joint between crown arch section and west arch section up to 1.5" (crown section lower), and joint open up to 1" wide. See photo 161 for close-up of vertical misalignment

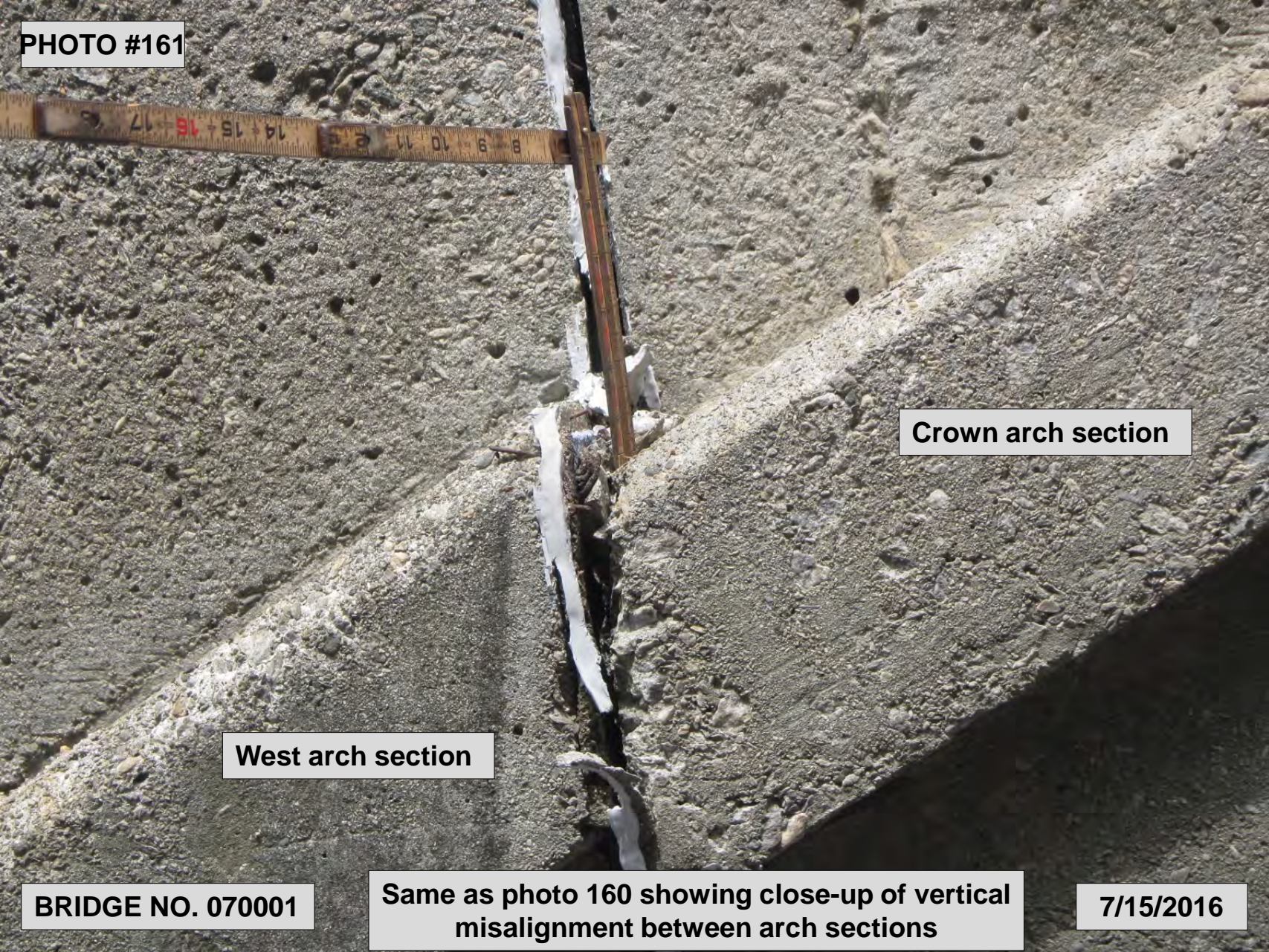


Span 6, south arch bottom flange at the west shiplap joint

BRIDGE NO. 070001

7/15/2016

PHOTO #161



Crown arch section

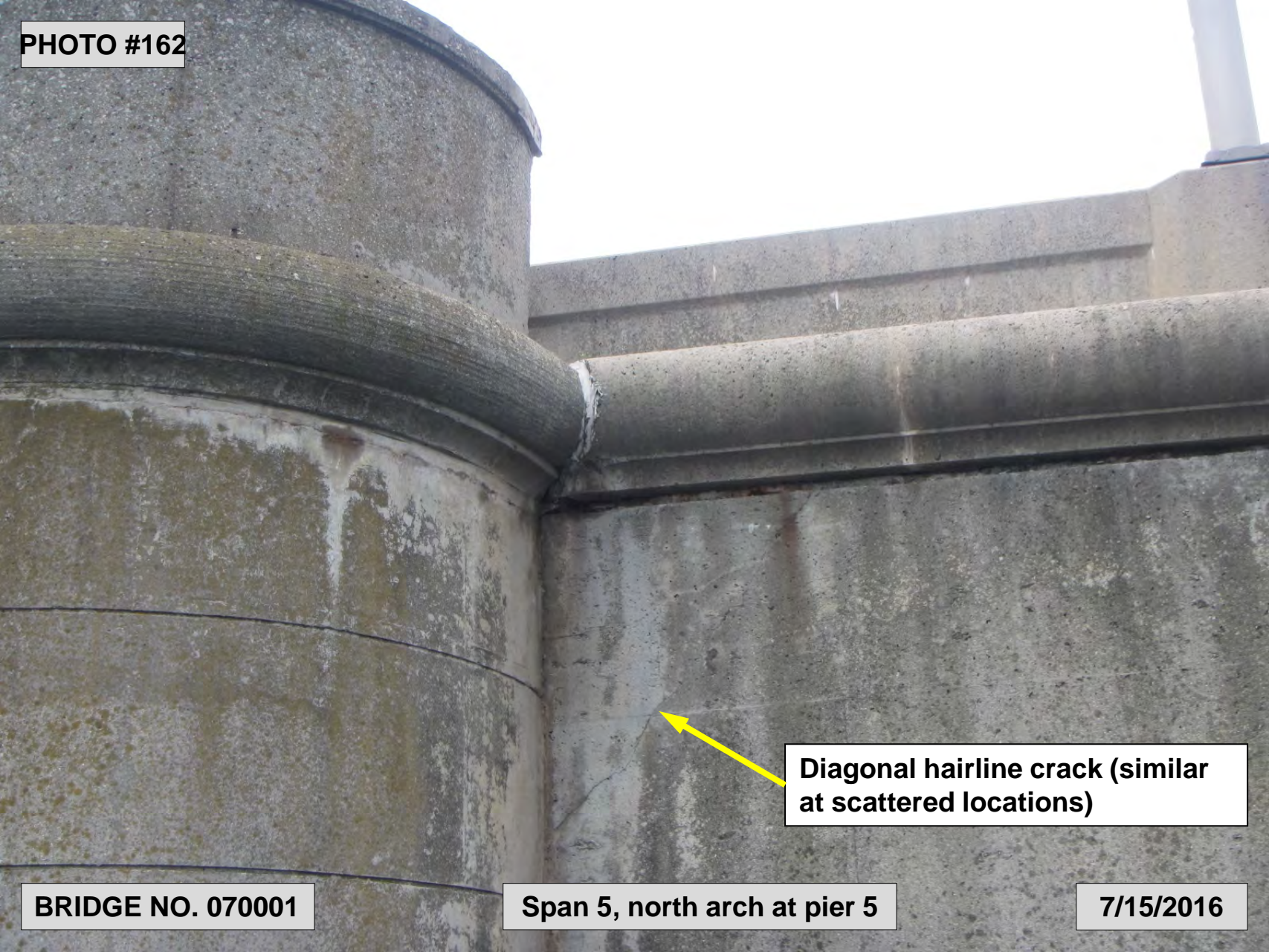
West arch section

BRIDGE NO. 070001

Same as photo 160 showing close-up of vertical misalignment between arch sections

7/15/2016

PHOTO #162



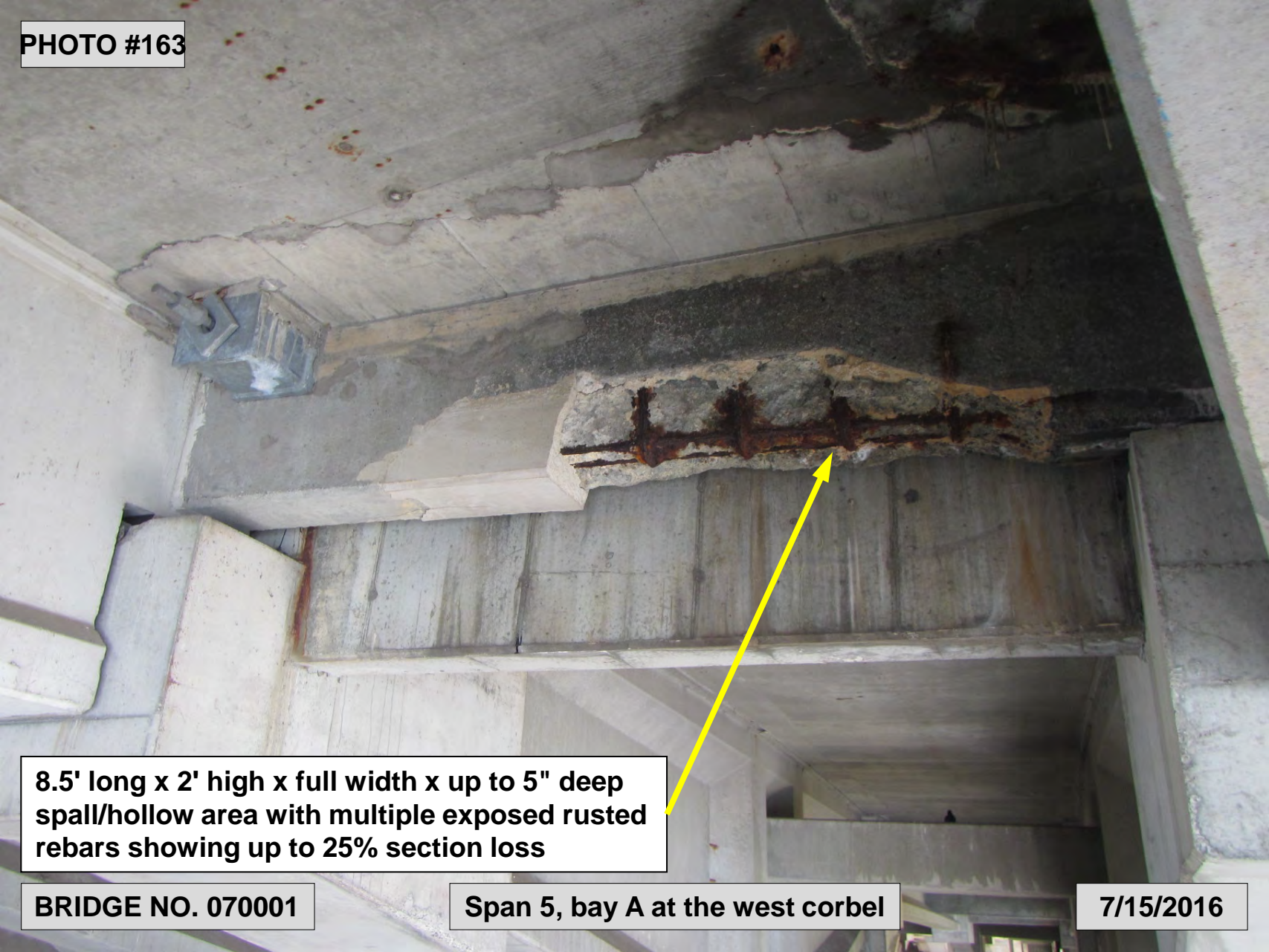
Diagonal hairline crack (similar at scattered locations)

BRIDGE NO. 070001

Span 5, north arch at pier 5

7/15/2016

PHOTO #163



**8.5' long x 2' high x full width x up to 5" deep
spall/hollow area with multiple exposed rusted
rebars showing up to 25% section loss**

BRIDGE NO. 070001

Span 5, bay A at the west corbel

7/15/2016

PHOTO #164

Seismic assembly with loose washer and nut (similar at random location)

4' long x full width x 7" high x 6" deep spall with exposed rebar

2' long x full width x 6" deep spall

BRIDGE NO. 070001

Span 6, bay C at the west corbel

7/15/2016

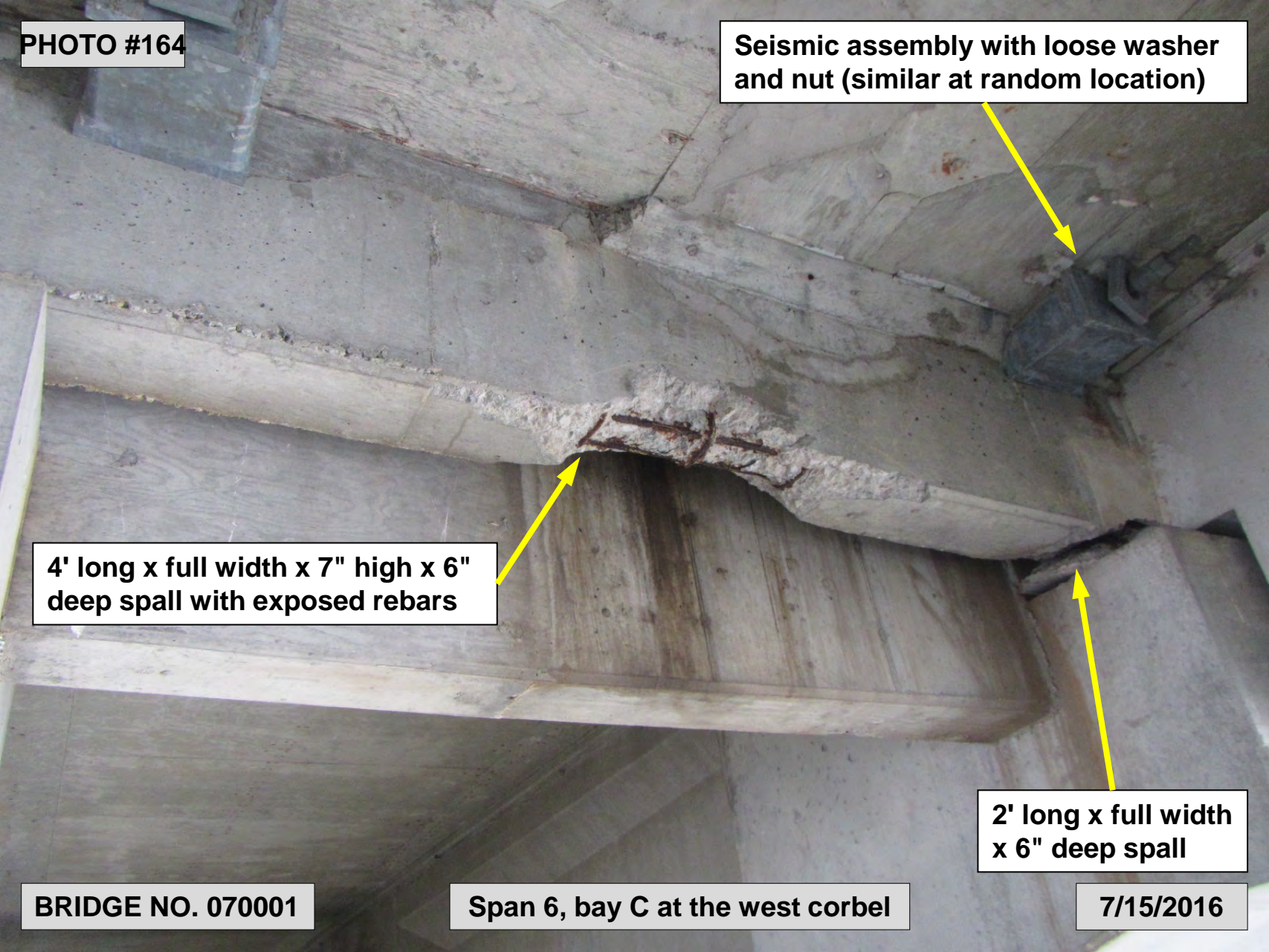
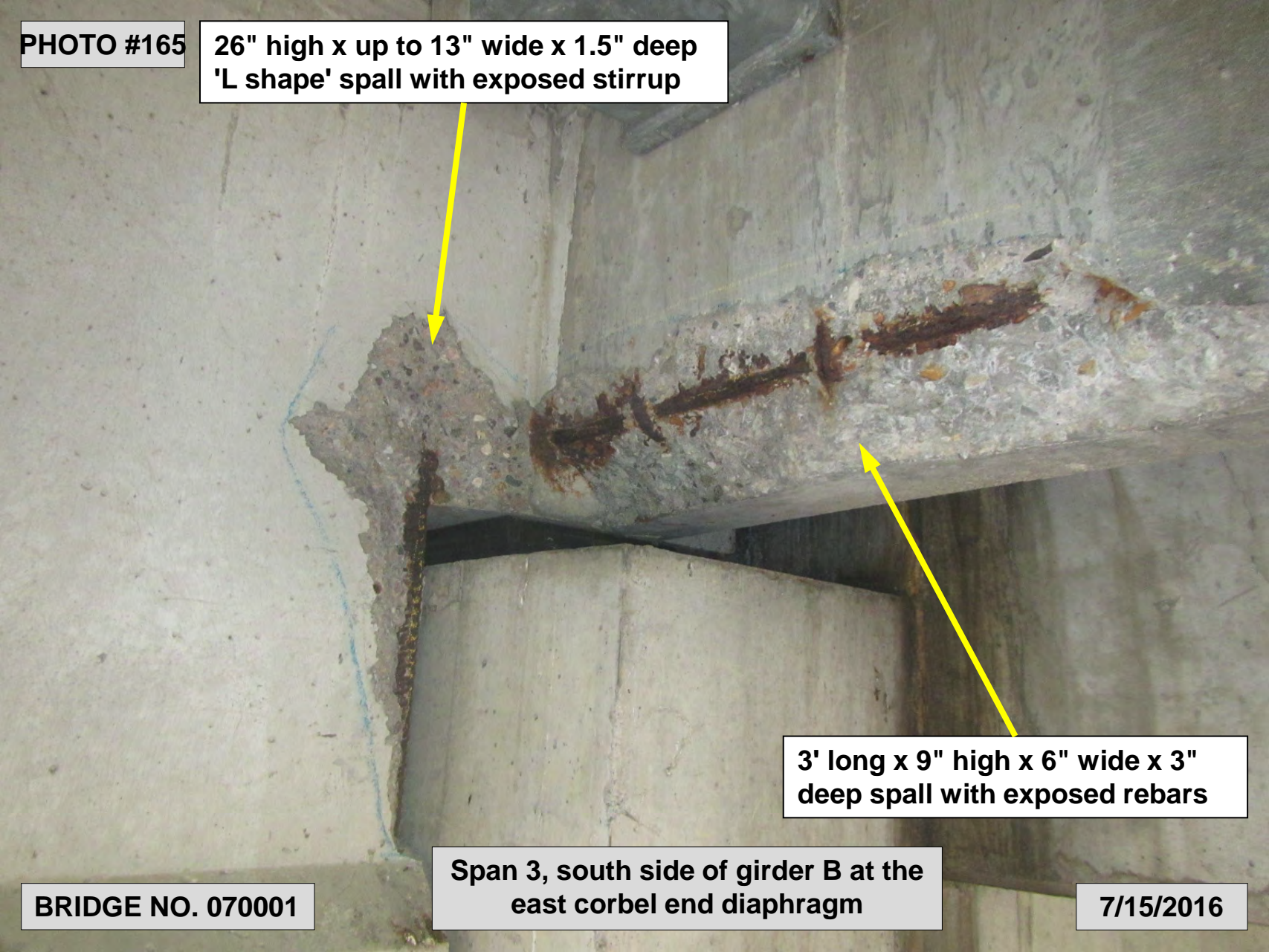


PHOTO #165

**26" high x up to 13" wide x 1.5" deep
'L shape' spall with exposed stirrup**



**3' long x 9" high x 6" wide x 3"
deep spall with exposed rebar**

**Span 3, south side of girder B at the
east corbel end diaphragm**

BRIDGE NO. 070001

7/15/2016

PHOTO #166

**18" long x 8" high x 1" deep
spall with exposed rebar**



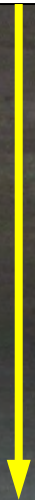
BRIDGE NO. 070001

Span 9, bay A mid-span diaphragm

7/15/2016

PHOTO #167

Typical cantilever end diaphragm



BRIDGE NO. 070001

Span 11, bay B cantilever end diaphragm at pier 10

7/15/2016

PHOTO #168



**3' long x 8" wide x 4" deep
spall with exposed rebar**

BRIDGE NO. 070001

Span 5, pier 3R diaphragm

7/15/2016

PHOTO #169

70" long x 9" high x full width x 3" deep spall/hollow area with exposed rebar, hollow patches and active leakage

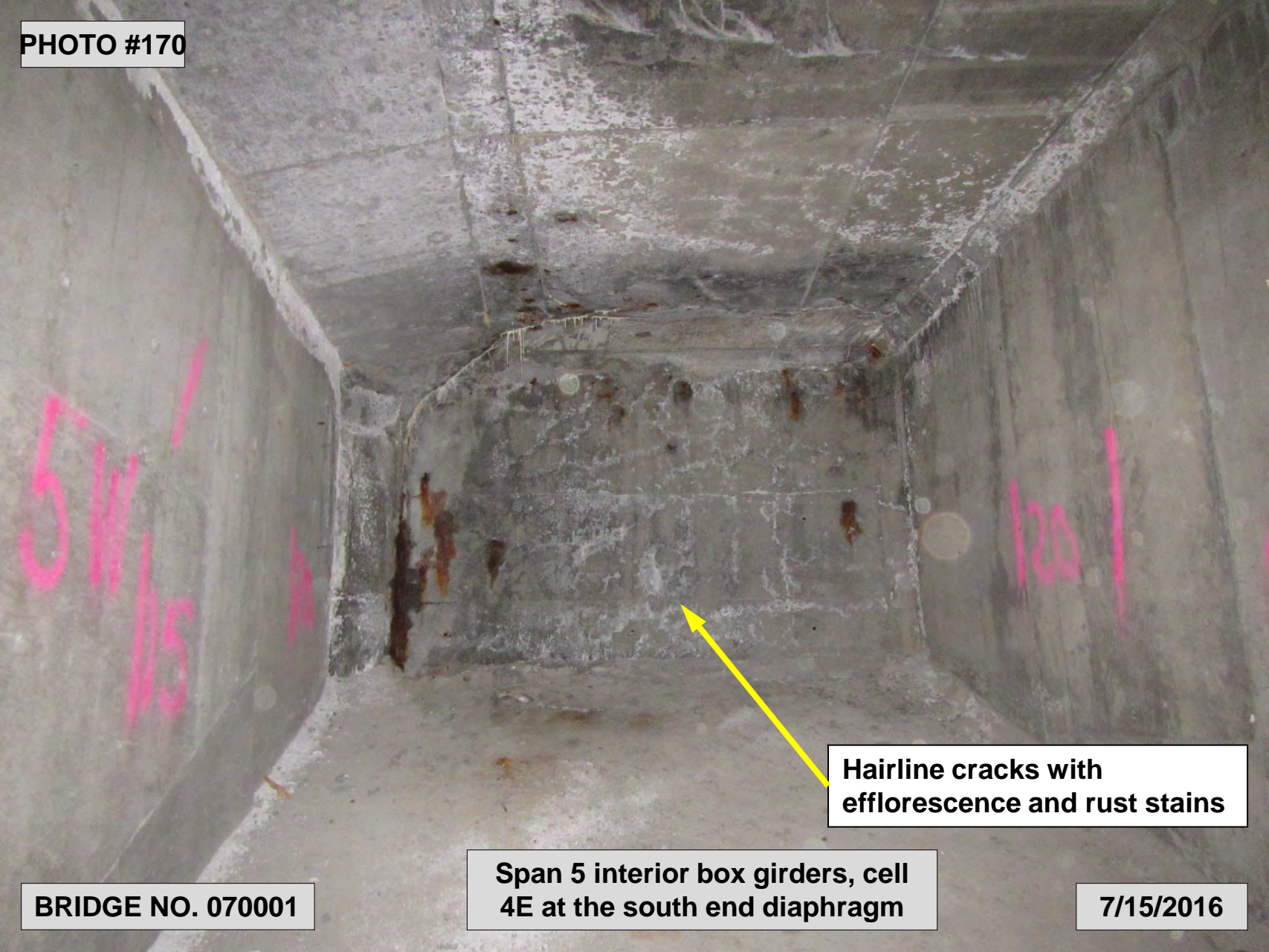
15" high x 14" wide x 2" deep spall with exposed reinforcing plate on south side

BRIDGE NO. 070001

Span 10, bay A at the east corbel

7/15/2016

PHOTO #170



Hairline cracks with
efflorescence and rust stains

Span 5 interior box girders, cell
4E at the south end diaphragm

BRIDGE NO. 070001

7/15/2016

PHOTO #171



**Full height vertical hairline
cracks; some extend to underside**

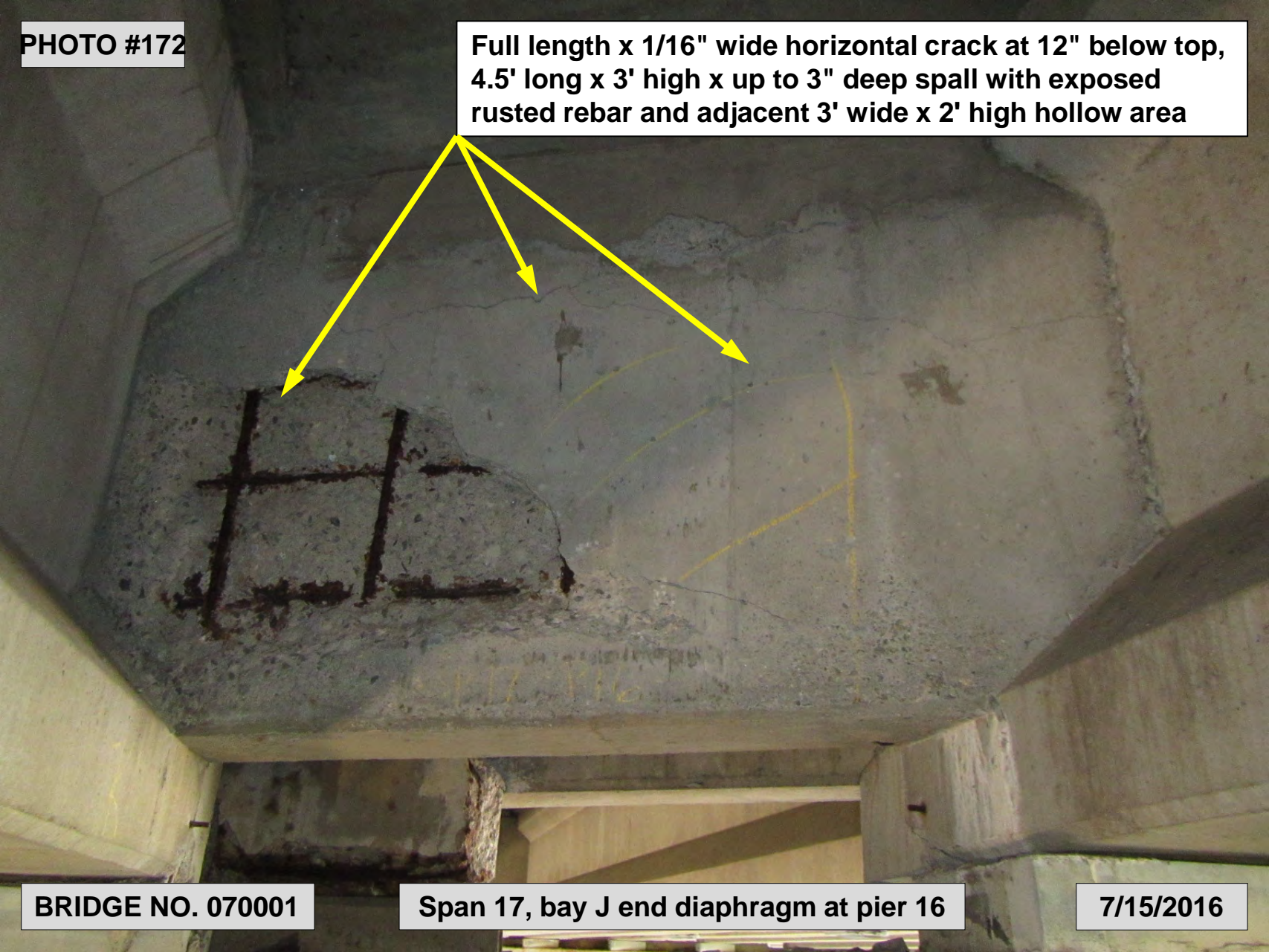
BRIDGE NO. 070001

Span 3R exterior diaphragm at pier 2R

7/15/2016

PHOTO #172

Full length x 1/16" wide horizontal crack at 12" below top, 4.5' long x 3' high x up to 3" deep spall with exposed rusted rebar and adjacent 3' wide x 2' high hollow area



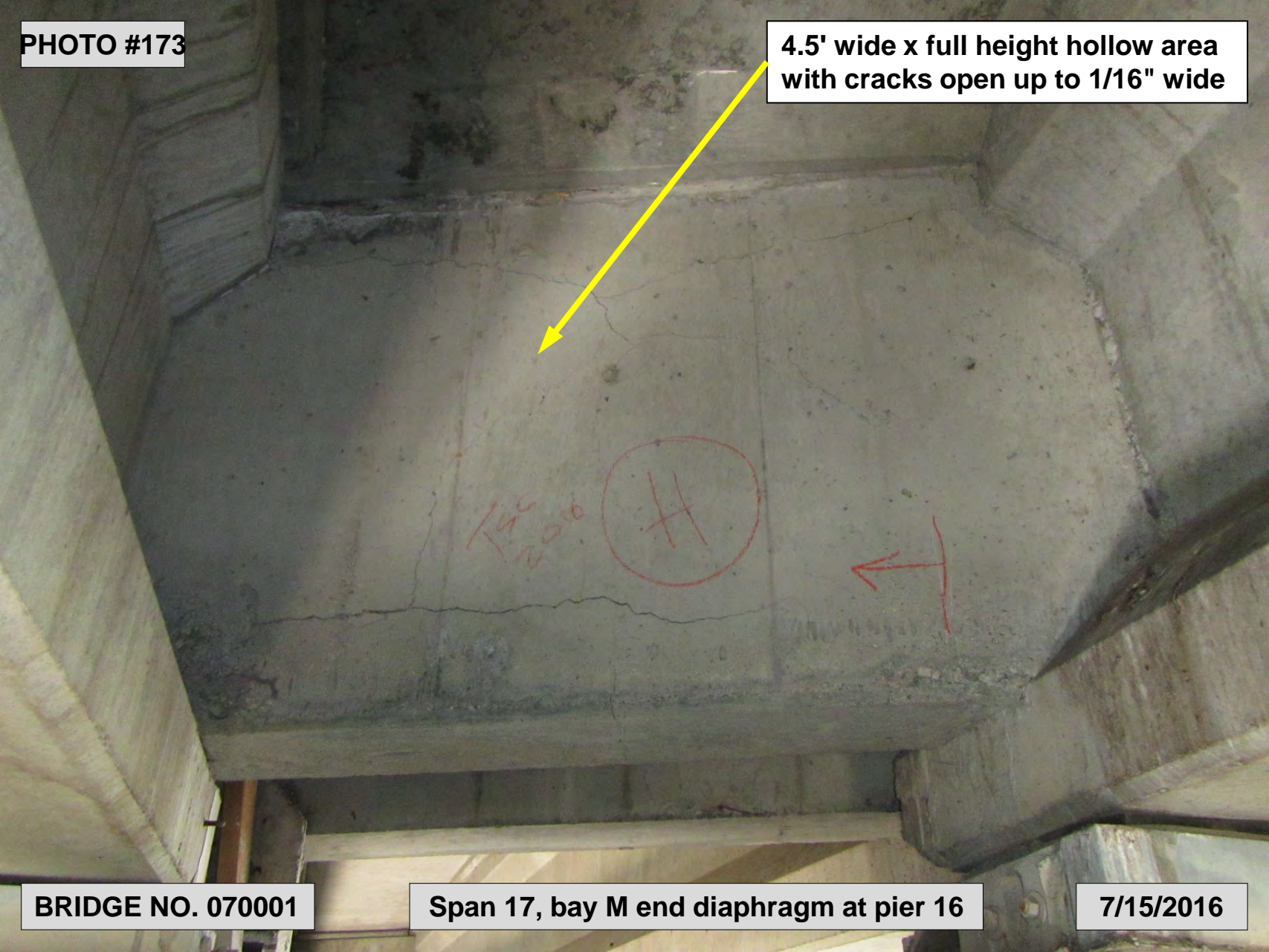
BRIDGE NO. 070001

Span 17, bay J end diaphragm at pier 16

7/15/2016

PHOTO #173

4.5' wide x full height hollow area with cracks open up to 1/16" wide



BRIDGE NO. 070001

Span 17, bay M end diaphragm at pier 16

7/15/2016

PHOTO #174



**Concrete patches and hairline
map cracks up to 6' high x 5' wide**

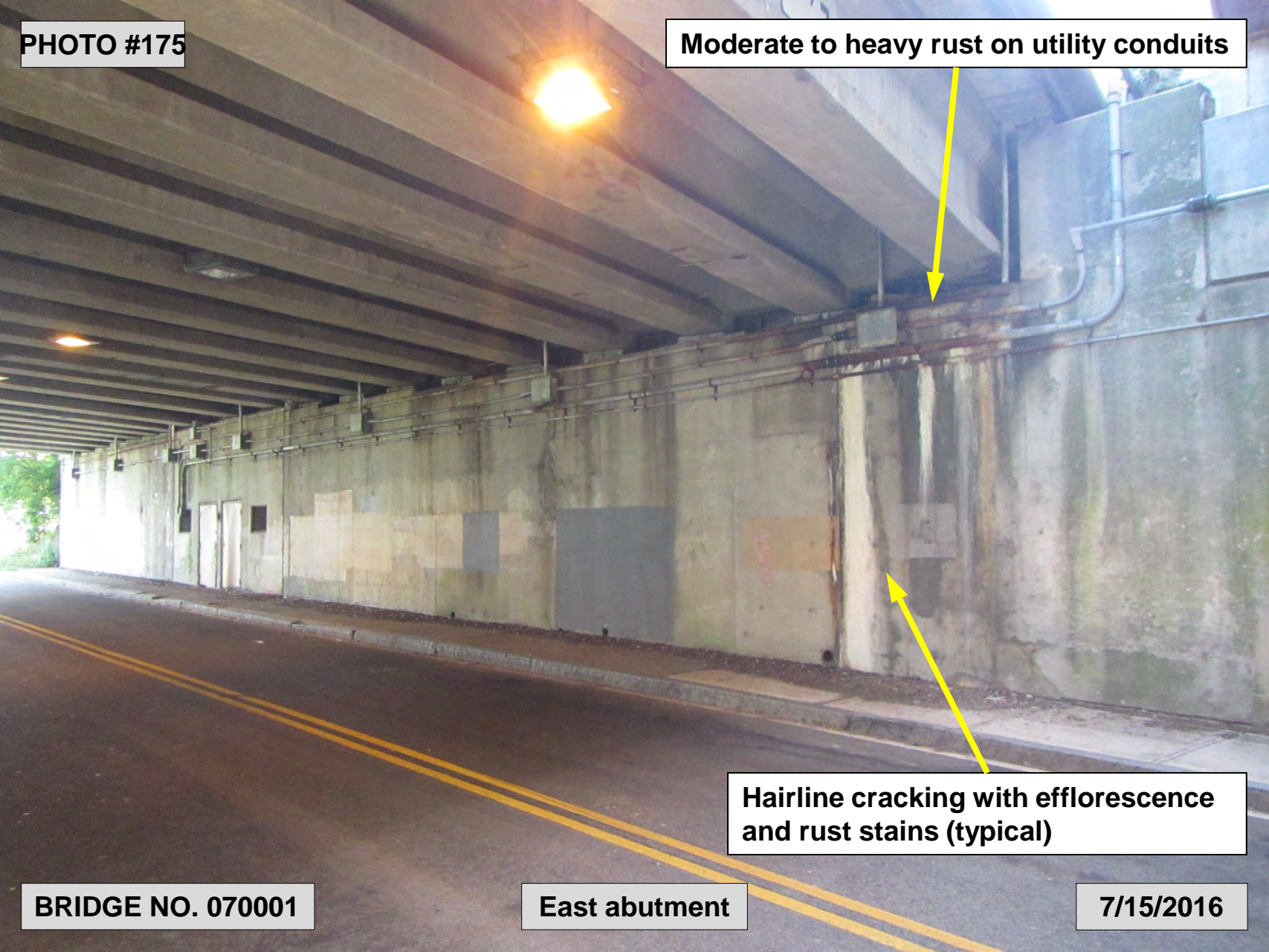
BRIDGE NO. 070001

West Abutment and retaining wall

7/15/2016

PHOTO #175

Moderate to heavy rust on utility conduits



Hairline cracking with efflorescence and rust stains (typical)

BRIDGE NO. 070001

East abutment

7/15/2016

PHOTO #176

Full width x full height heavy rust staining and efflorescence with spalling throughout up to 1/2" deep and additional 3' wide x 2' high x 2" deep spall

Painted since the previous inspection. Hairline cracks, efflorescence and rust. Intermittent hollow areas up to 5' wide x 5' high

Typical slope protection

3' long x 7" high x 4" deep spall undermines east fascia arch bearing pad full width x 1/2" deep

BRIDGE NO. 070001

Gano Street Ramp Abutment R and slope protection

7/15/2016

PHOTO #177

Access method for interior of box girders



BRIDGE NO. 070001

Gano Street Ramp Abutment R

7/15/2016

PHOTO #178



heavy graffiti

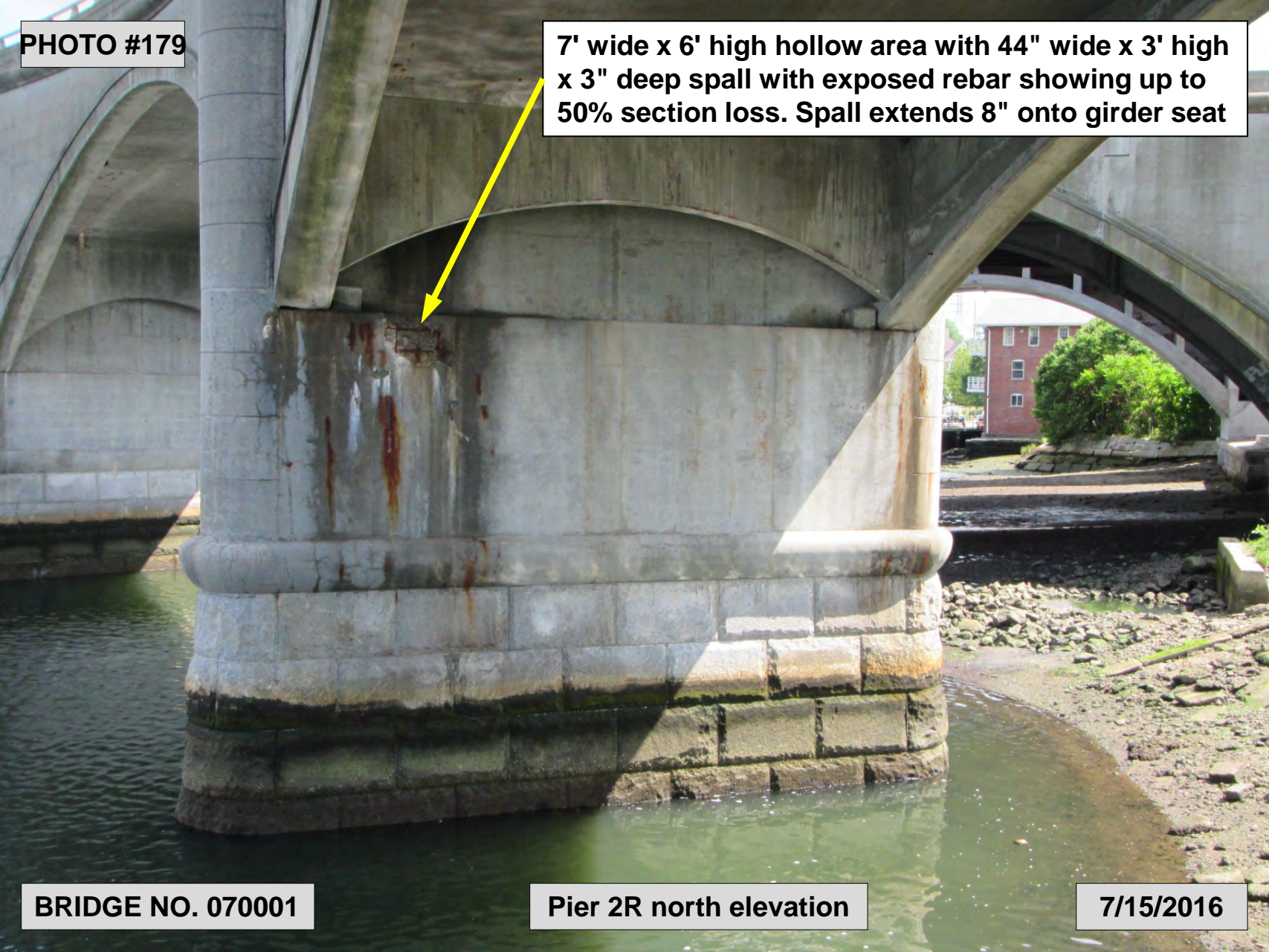
BRIDGE NO. 070001

Pier 3 east elevation

7/15/2016

PHOTO #179

7' wide x 6' high hollow area with 44" wide x 3' high x 3" deep spall with exposed rebar showing up to 50% section loss. Spall extends 8" onto girder seat



BRIDGE NO. 070001

Pier 2R north elevation

7/15/2016

PHOTO #180



BRIDGE NO. 070001

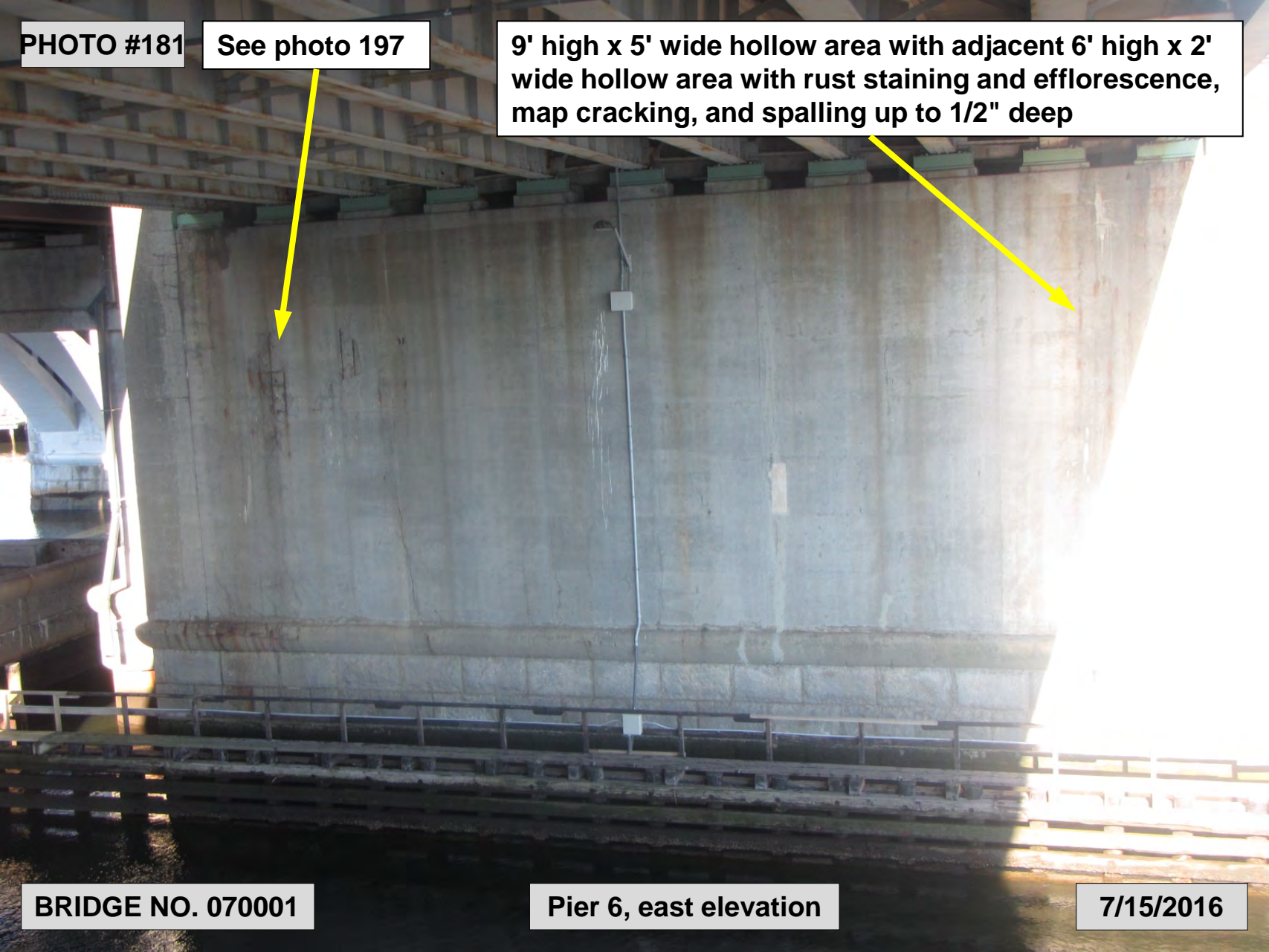
Pier 4 west elevation

7/15/2016

PHOTO #181

See photo 197

9' high x 5' wide hollow area with adjacent 6' high x 2' wide hollow area with rust staining and efflorescence, map cracking, and spalling up to 1/2" deep



BRIDGE NO. 070001

Pier 6, east elevation

7/15/2016

PHOTO #182



BRIDGE NO. 070001

Pier 6 interior, looking south

7/15/2016

PHOTO #183

**Typical railing at interior
of piers 6 and 7**



BRIDGE NO. 070001

Pier 7 interior, looking south

7/15/2016

PHOTO #184



BRIDGE NO. 070001

Pier 8 west elevation

7/15/2016

PHOTO #185



BRIDGE NO. 070001

Pier 15 east elevation

7/15/2016

PHOTO #186

Rust stains and concrete protective coat



BRIDGE NO. 070001

West elevation of pier 17

7/15/2016

PHOTO #187

Full height x full length x up to 2" deep spall with exposed rebar

51" high x 27" wide x 2.5" deep spall/hollow area with exposed rebar

BRIDGE NO. 070001

Pier 8, west side of column F

7/15/2016

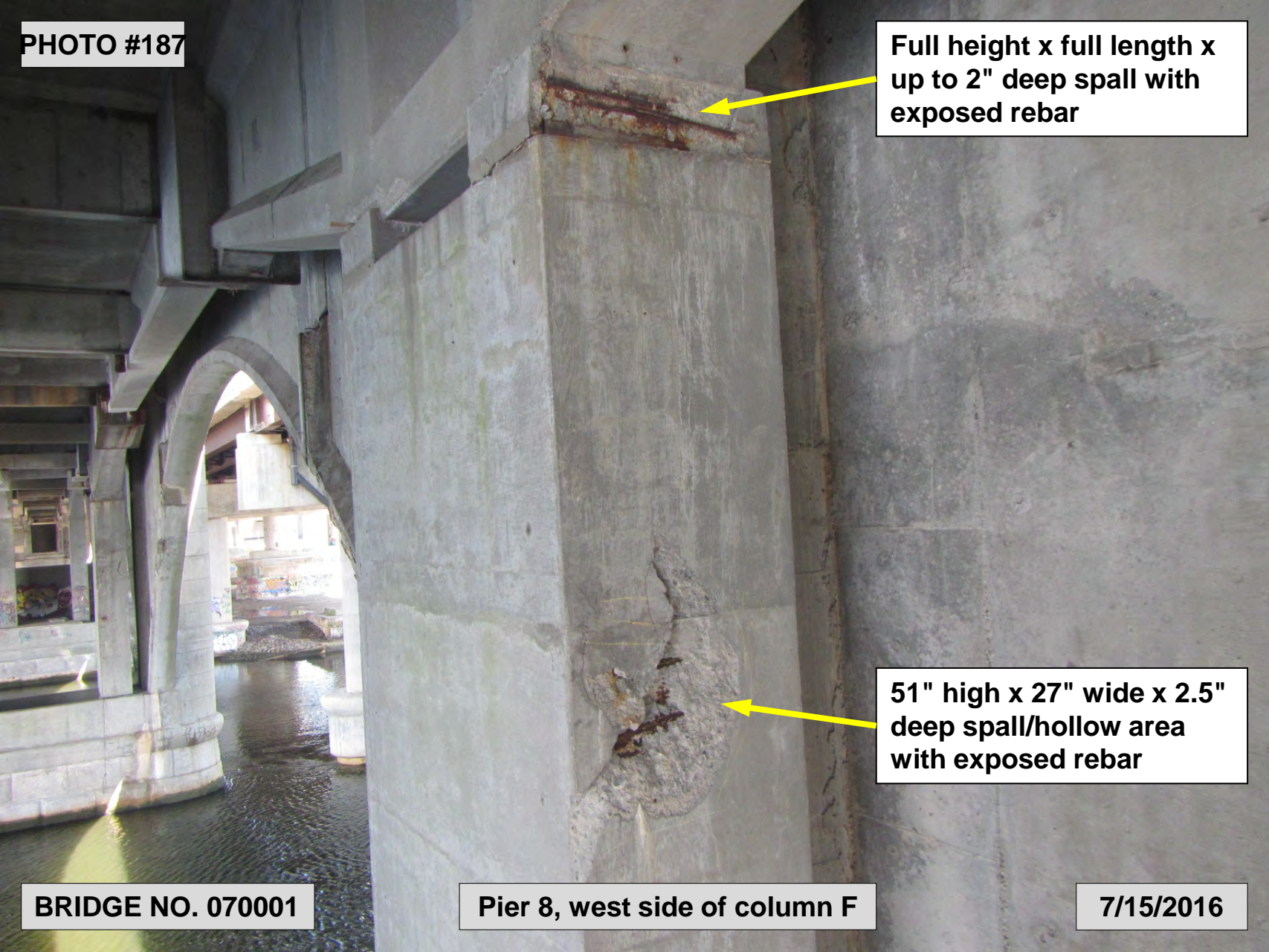
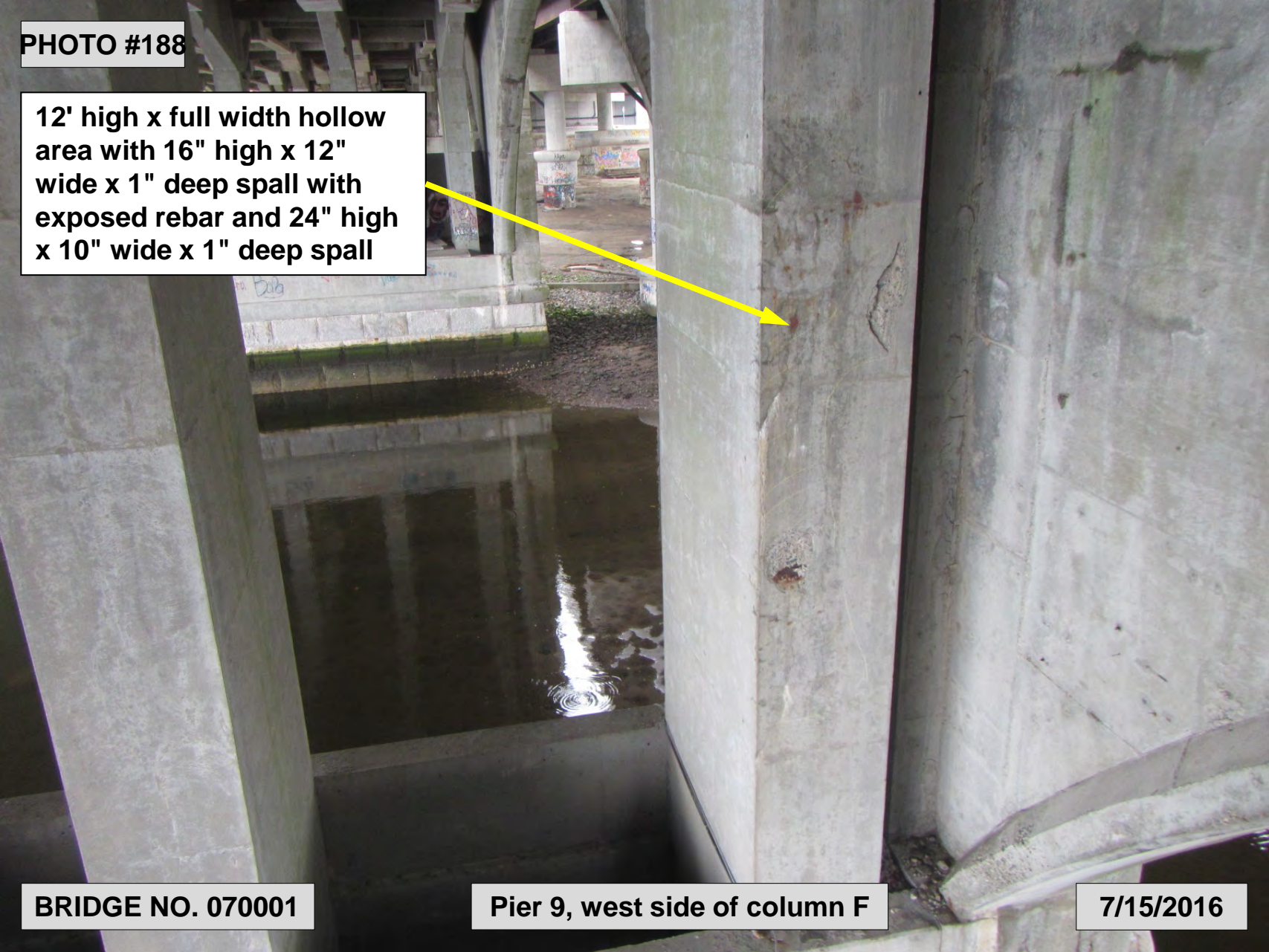


PHOTO #188

12' high x full width hollow area with 16" high x 12" wide x 1" deep spall with exposed rebar and 24" high x 10" wide x 1" deep spall



BRIDGE NO. 070001

Pier 9, west side of column F

7/15/2016

PHOTO #189

3' wide x 3' high hollow area with map cracking and edge spalling up to 1" deep

5' high x 2' wide hollow area

Vertical crack, half height x 1/16" wide and 2' wide x 2.5' high hollow patch with cracks

Full height x 1/4" wide crack with intermittent full height hollow area by up to 12" wide and concrete patch

E

F

BRIDGE NO. 070001

Pier 14, north side of columns E and F

7/15/2016

PHOTO #190

20' wide x 8.5' high hollow area with 9' wide x 7' high x 5" deep spall with exposed longitudinal and transverse bars with up to 100% loss. Spall is up to 12" deep at girder seat, undermining east arch bearing. See photo 191 for close-up of spall and photo 36 for undermined bearing

3' wide x 2' high x 3" deep with exposed rebar showing up to 30% section loss.

Efflorescence and rust stains

BRIDGE NO. 070001

Pier 2R south side, east half

7/15/2016

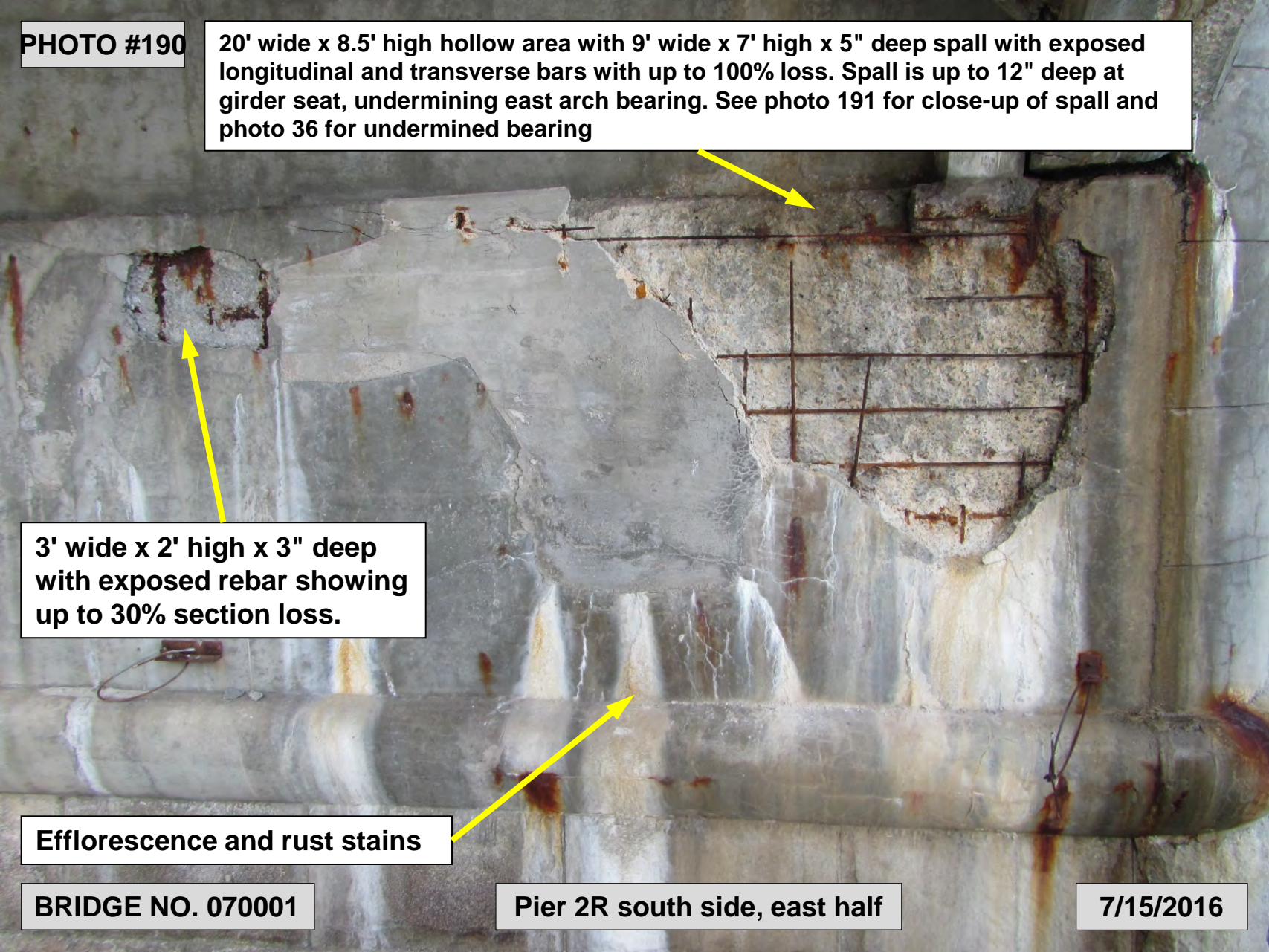


PHOTO #191



Same as photo 190 showing close-up of spall with exposed rebar and up to 100% section loss on exposed rebar

BRIDGE NO. 070001

7/15/2016

PHOTO #192

4' wide x 2' high delaminated area with rust staining

3' wide x 4' high hollow area with additional 2' wide x 5' high hollow area

12' high x 6' wide hairline map cracking, rust staining, and efflorescence

BRIDGE NO. 070001

Pier 2R, south side at the west end

7/15/2016

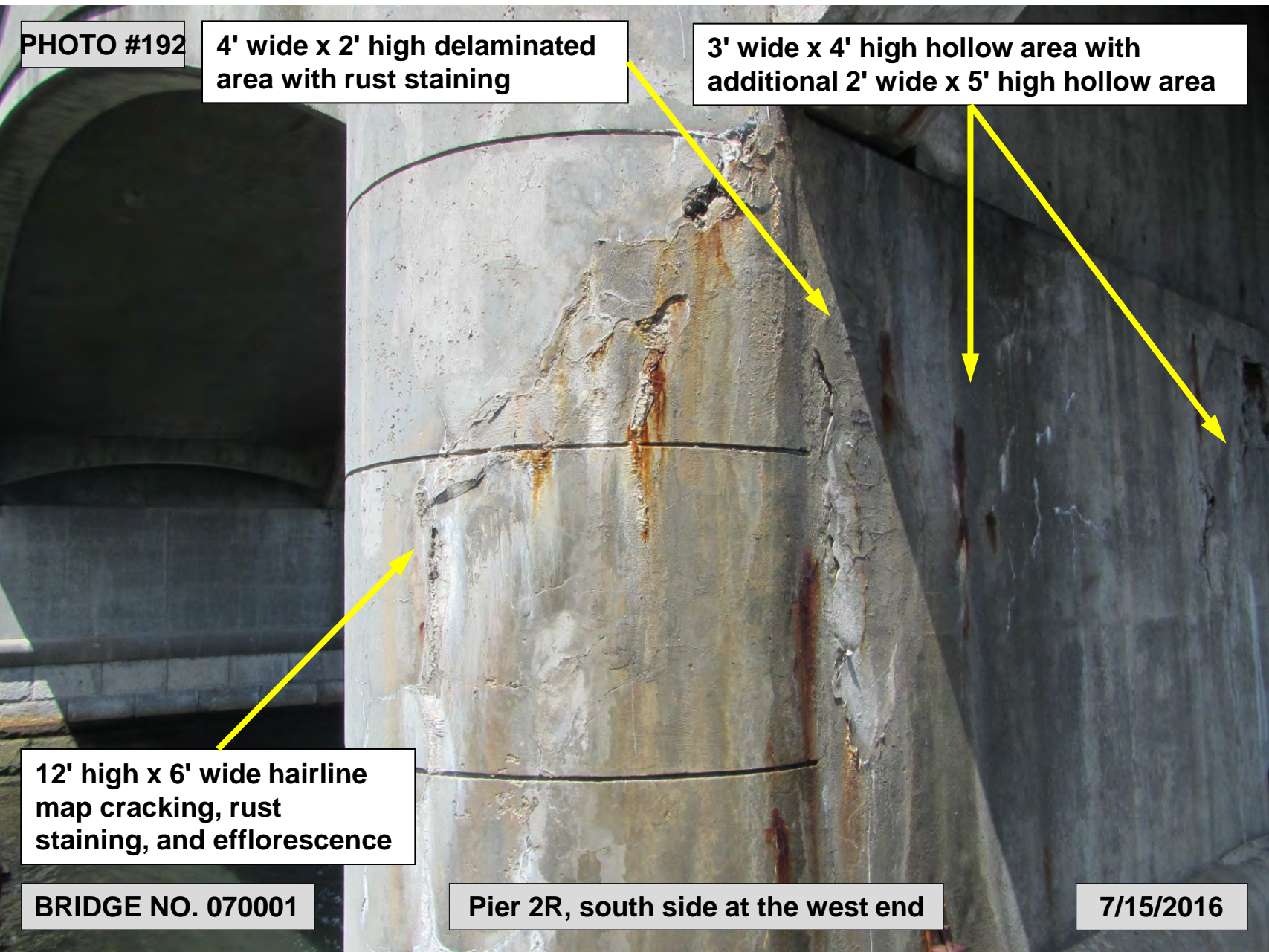
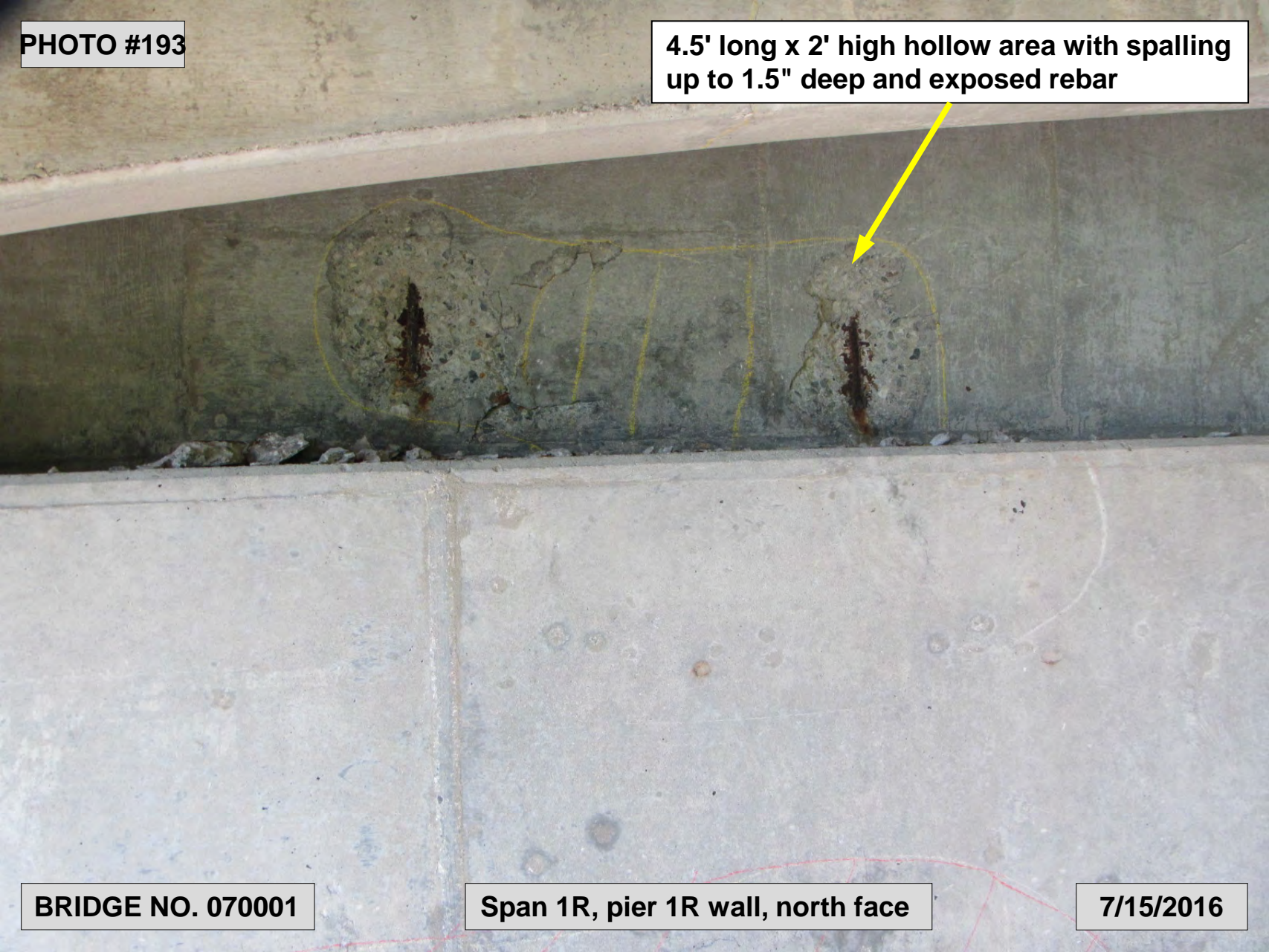


PHOTO #193

4.5' long x 2' high hollow area with spalling up to 1.5" deep and exposed rebar



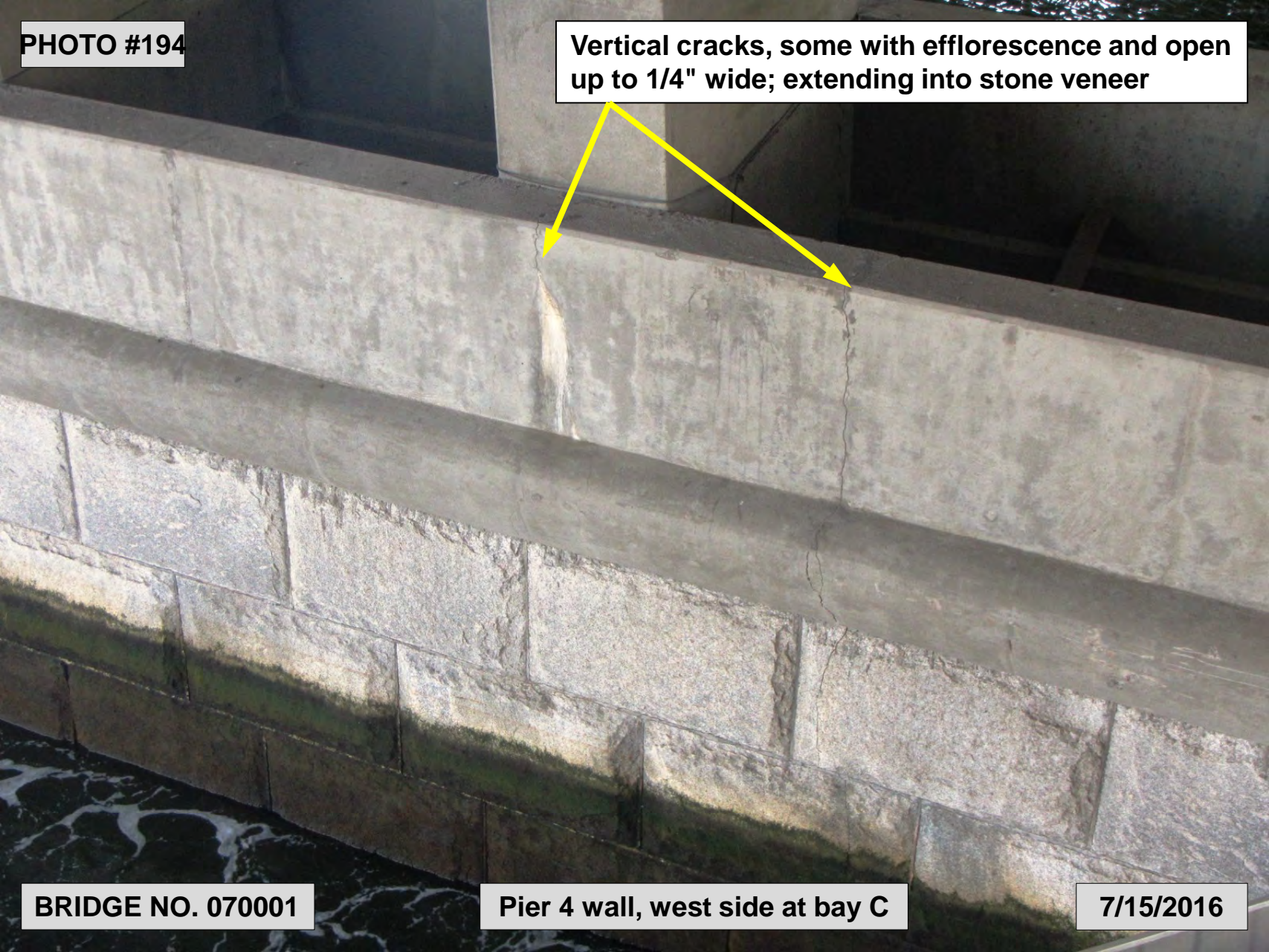
BRIDGE NO. 070001

Span 1R, pier 1R wall, north face

7/15/2016

PHOTO #194

Vertical cracks, some with efflorescence and open up to 1/4" wide; extending into stone veneer

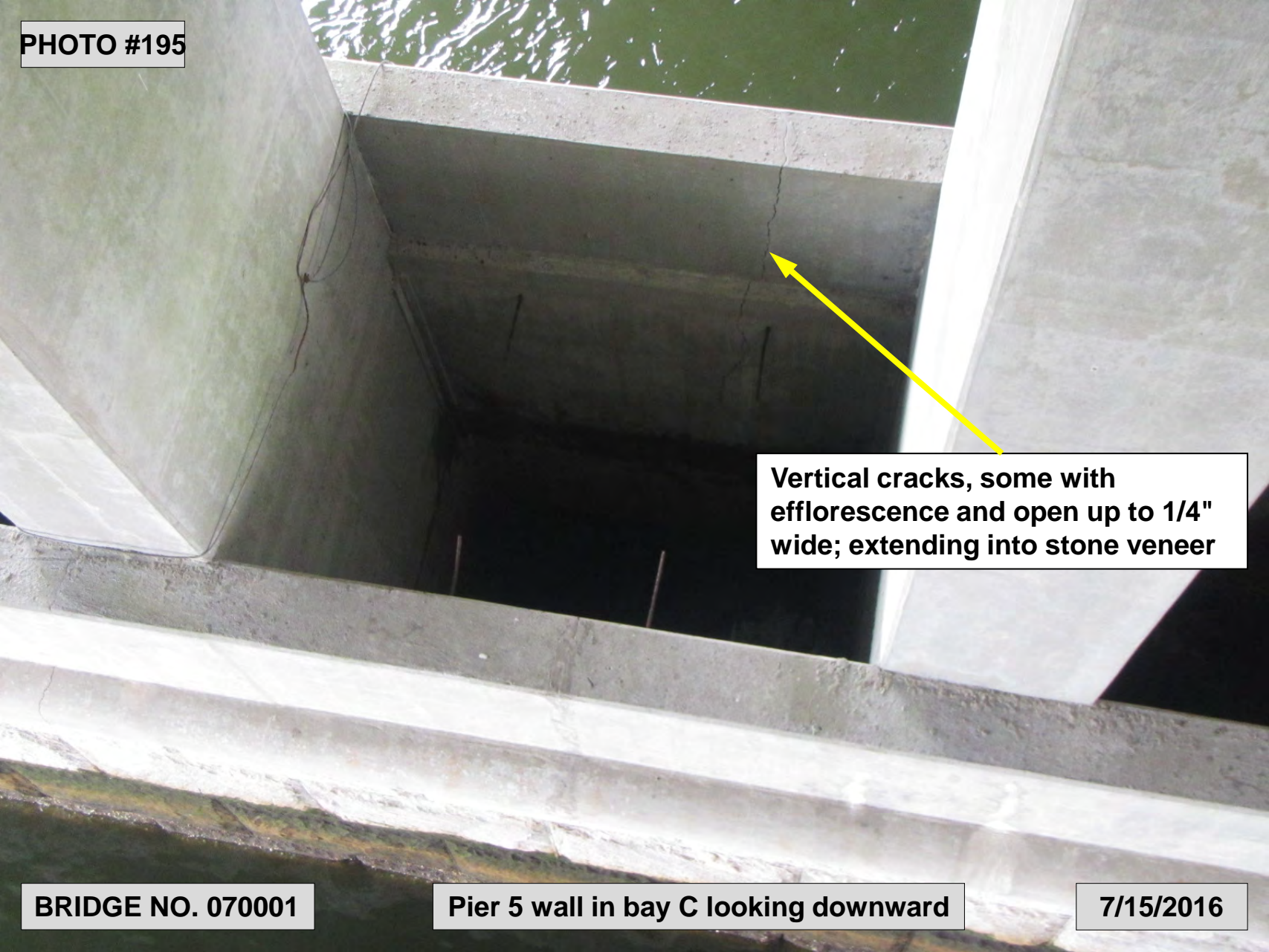


BRIDGE NO. 070001

Pier 4 wall, west side at bay C

7/15/2016

PHOTO #195



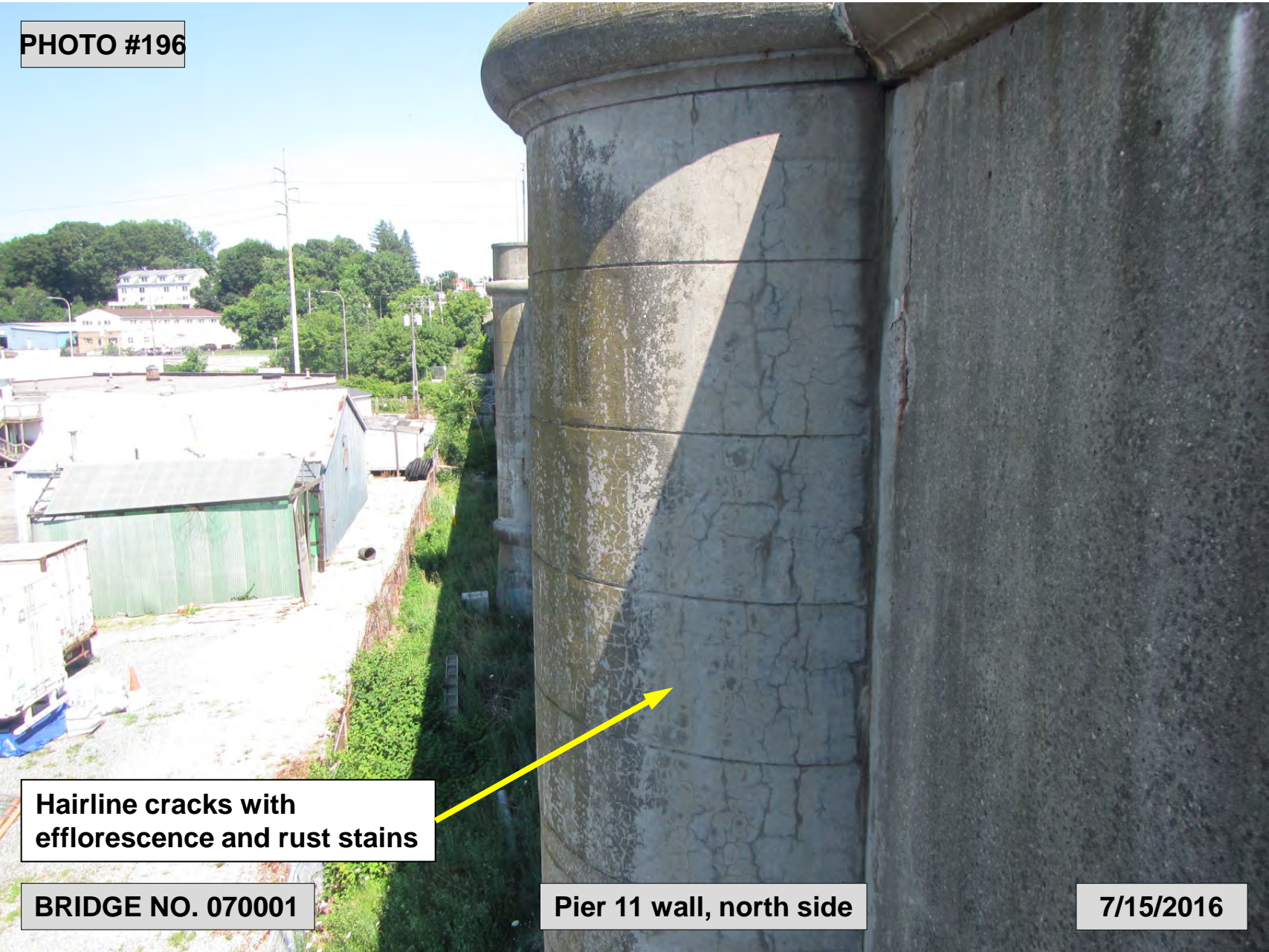
Vertical cracks, some with efflorescence and open up to 1/4" wide; extending into stone veneer

BRIDGE NO. 070001

Pier 5 wall in bay C looking downward

7/15/2016

PHOTO #196



Hairline cracks with efflorescence and rust stains

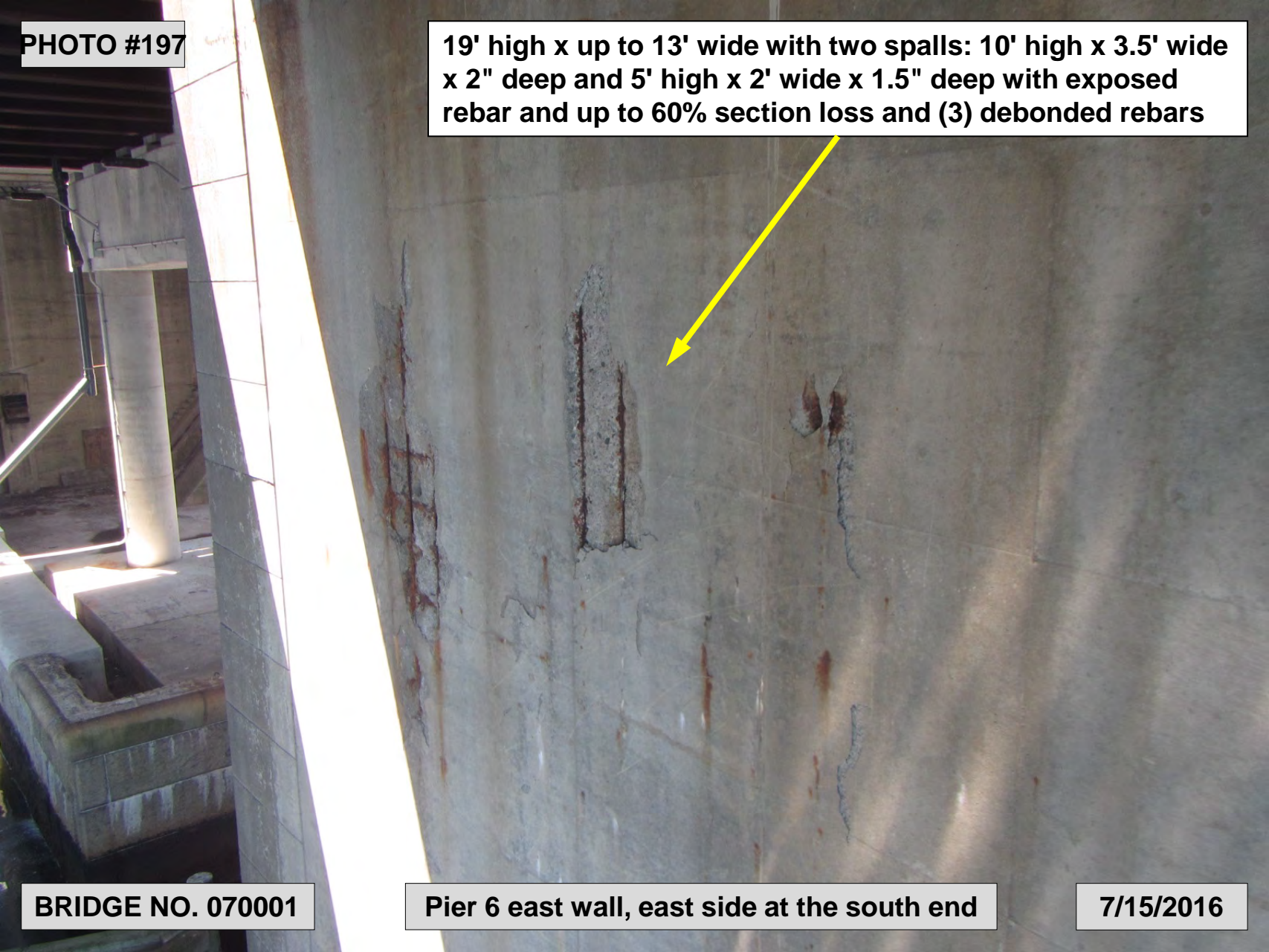
BRIDGE NO. 070001

Pier 11 wall, north side

7/15/2016

PHOTO #197

19' high x up to 13' wide with two spalls: 10' high x 3.5' wide x 2" deep and 5' high x 2' wide x 1.5" deep with exposed rebar and up to 60% section loss and (3) debonded rebars

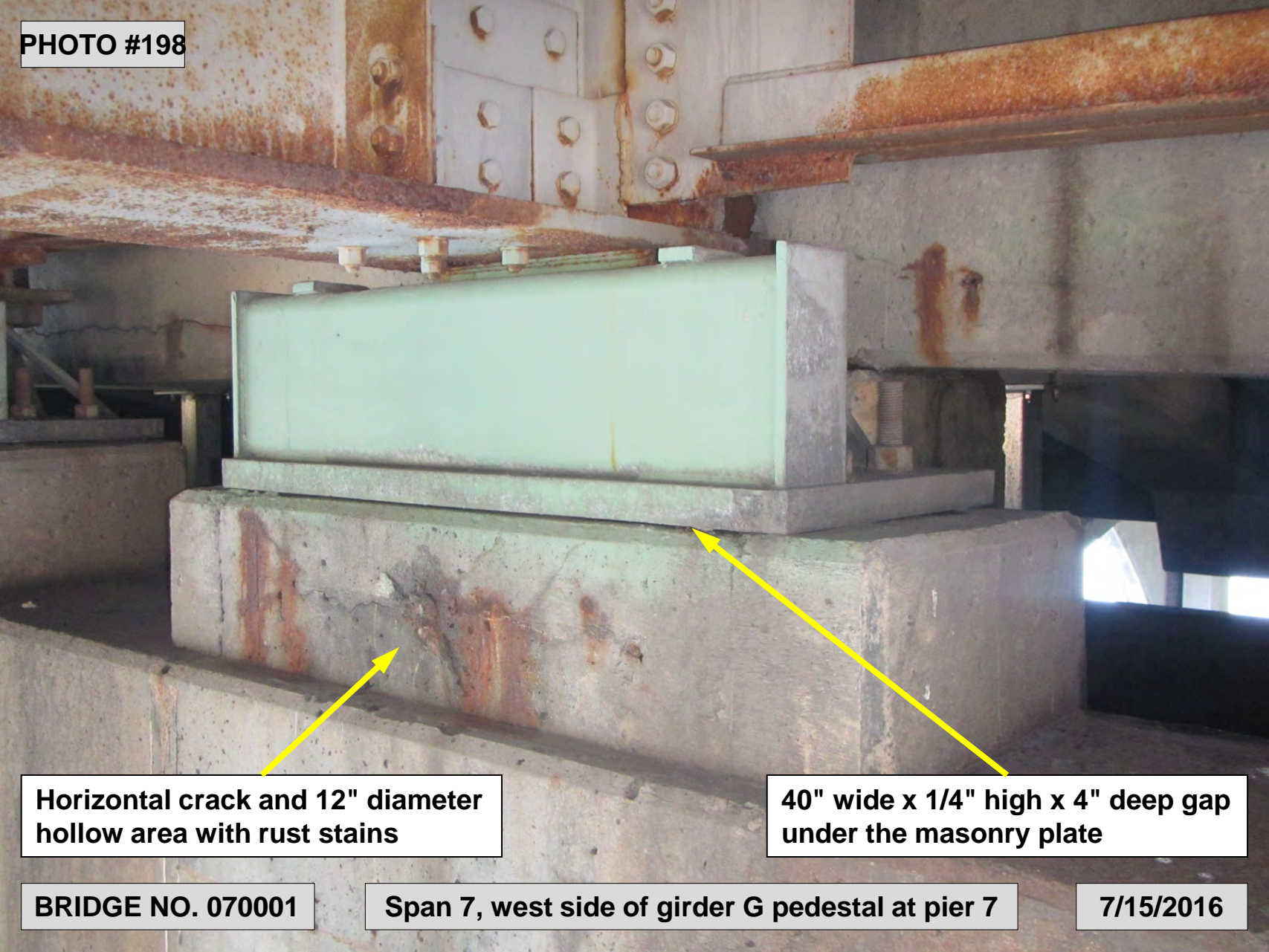


BRIDGE NO. 070001

Pier 6 east wall, east side at the south end

7/15/2016

PHOTO #198



Horizontal crack and 12" diameter hollow area with rust stains

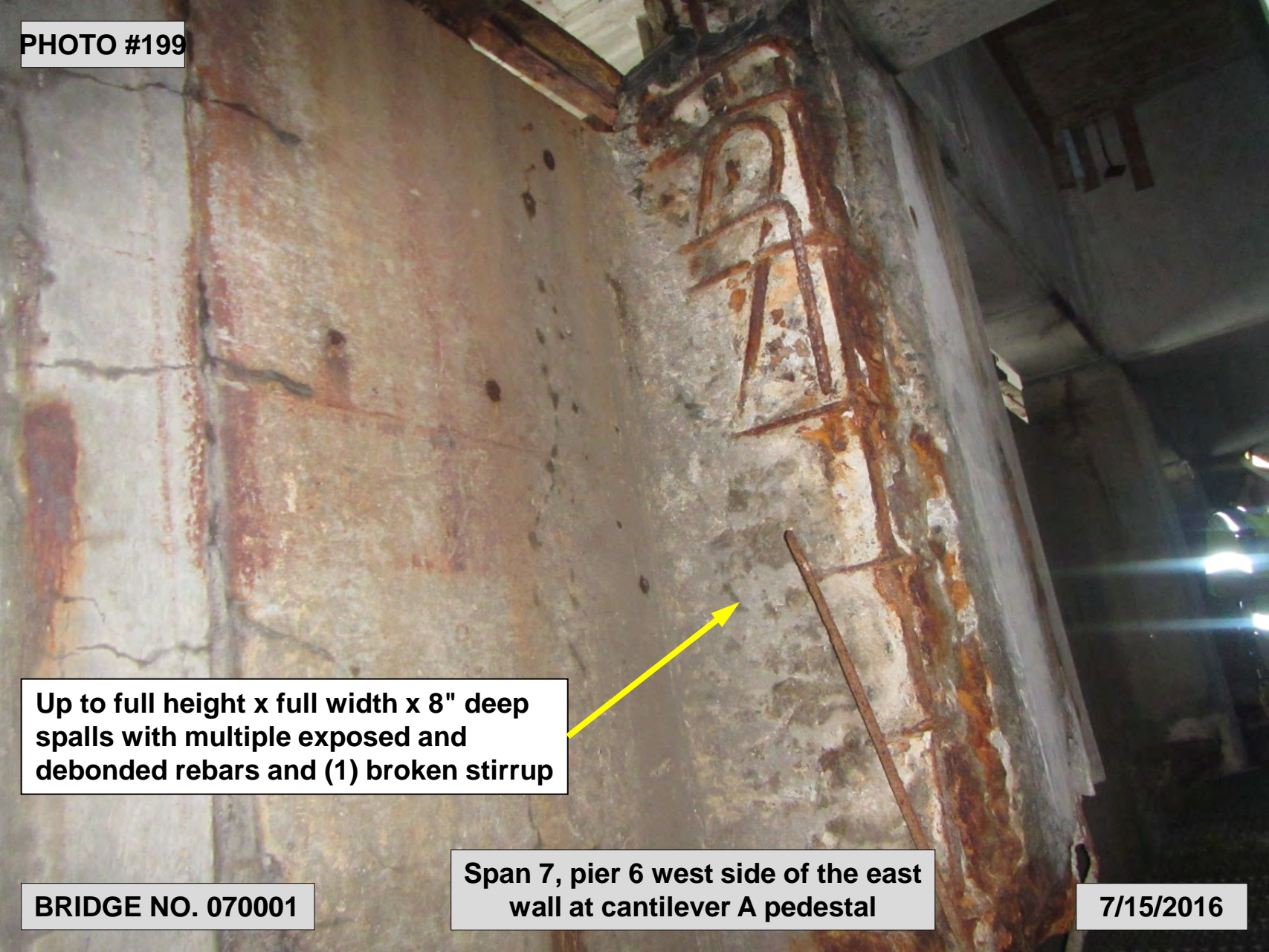
40" wide x 1/4" high x 4" deep gap under the masonry plate

BRIDGE NO. 070001

Span 7, west side of girder G pedestal at pier 7

7/15/2016

PHOTO #199



**Up to full height x full width x 8" deep
spalls with multiple exposed and
debonded rebars and (1) broken stirrup**

BRIDGE NO. 070001

**Span 7, pier 6 west side of the east
wall at cantilever A pedestal**

7/15/2016

PHOTO #200

See photo 116

Full width of all faces x 3' high x up to 12" deep spall with fully exposed and debonded bars and up to 10% section loss on exposed rebars. See photo 37 for undermining of cantilever bearing

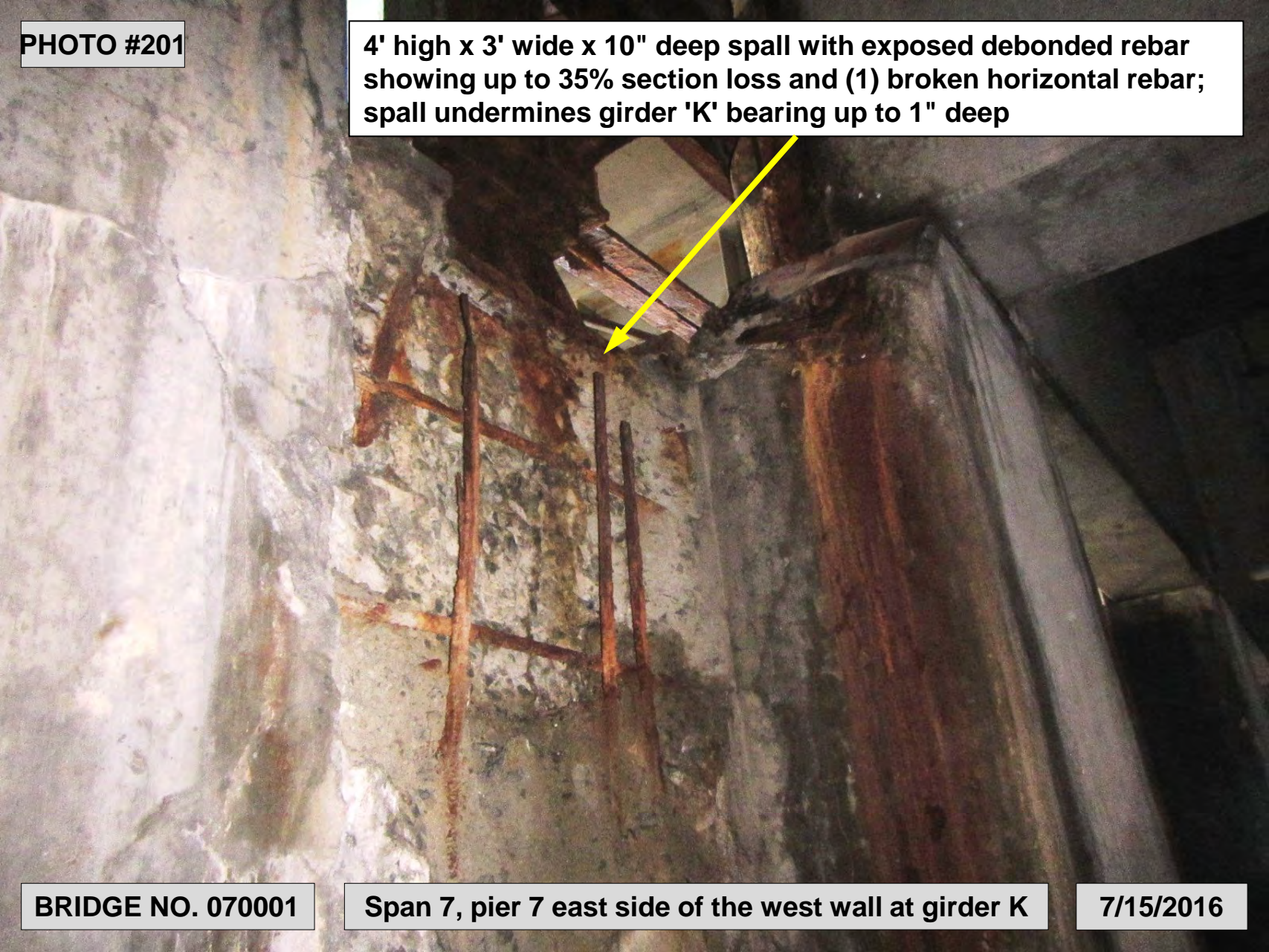
Span 7, pier 7 east side of the west wall at cantilever A pedestal

BRIDGE NO. 070001

7/15/2016

PHOTO #201

4' high x 3' wide x 10" deep spall with exposed debonded rebar showing up to 35% section loss and (1) broken horizontal rebar; spall undermines girder 'K' bearing up to 1" deep



BRIDGE NO. 070001

Span 7, pier 7 east side of the west wall at girder K

7/15/2016

PHOTO #202

NOT
ATTACHED

Railing not attached

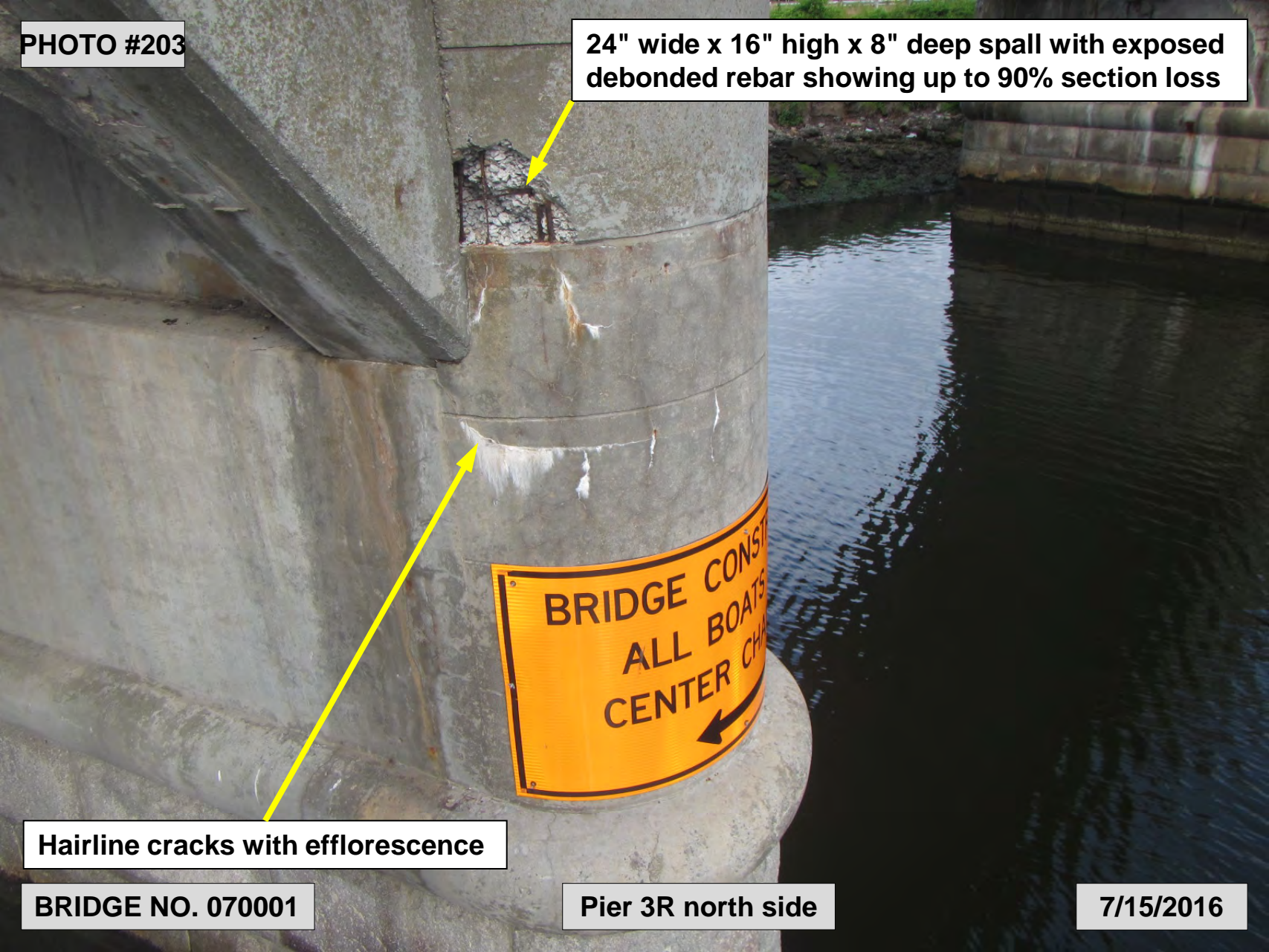
Span 7, pier 7 east side of the
west wall, at the south end

BRIDGE NO. 070001

7/15/2016

PHOTO #203

24" wide x 16" high x 8" deep spall with exposed debonded rebar showing up to 90% section loss



Hairline cracks with efflorescence

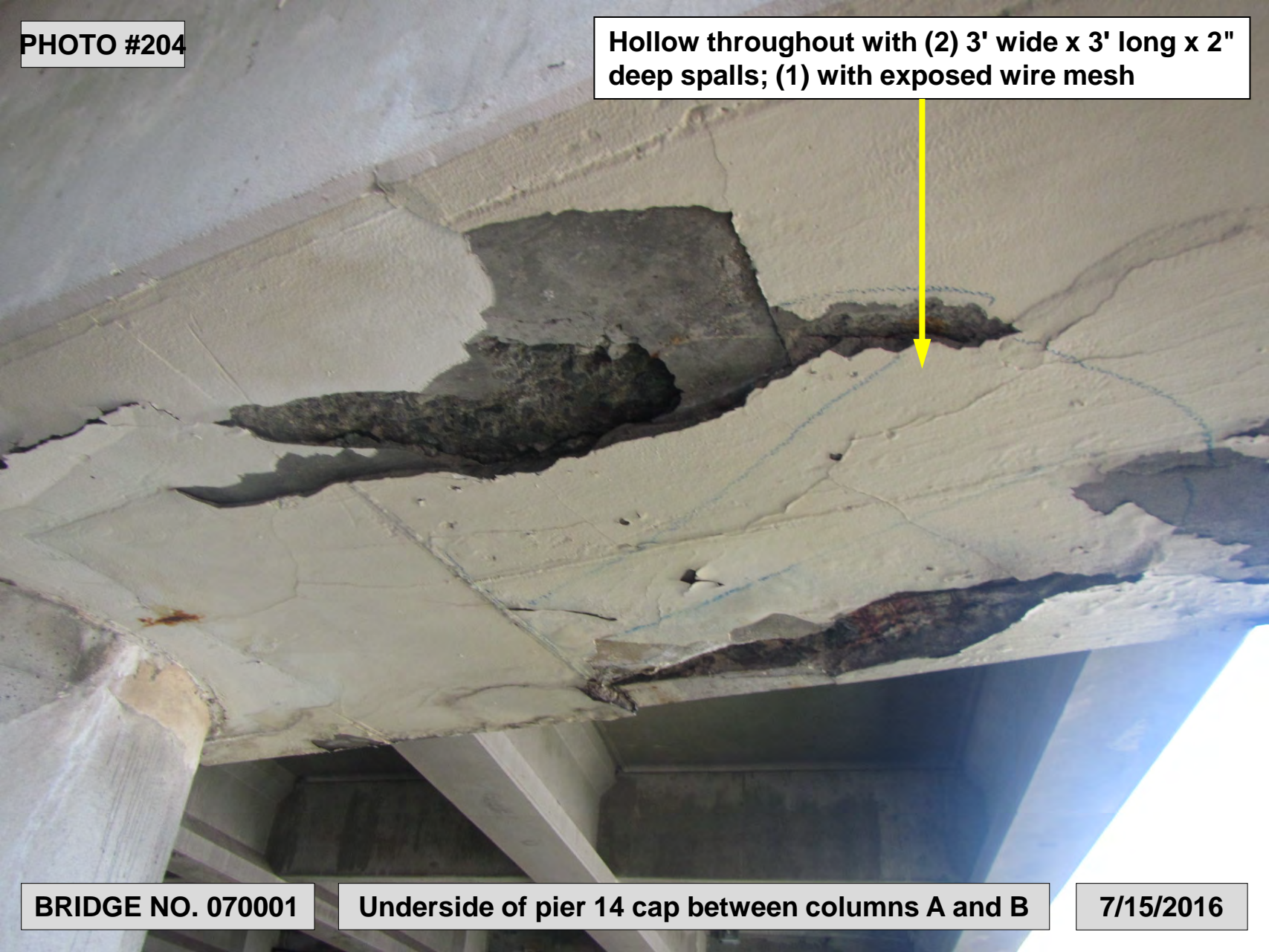
BRIDGE NO. 070001

Pier 3R north side

7/15/2016

PHOTO #204

Hollow throughout with (2) 3' wide x 3' long x 2" deep spalls; (1) with exposed wire mesh



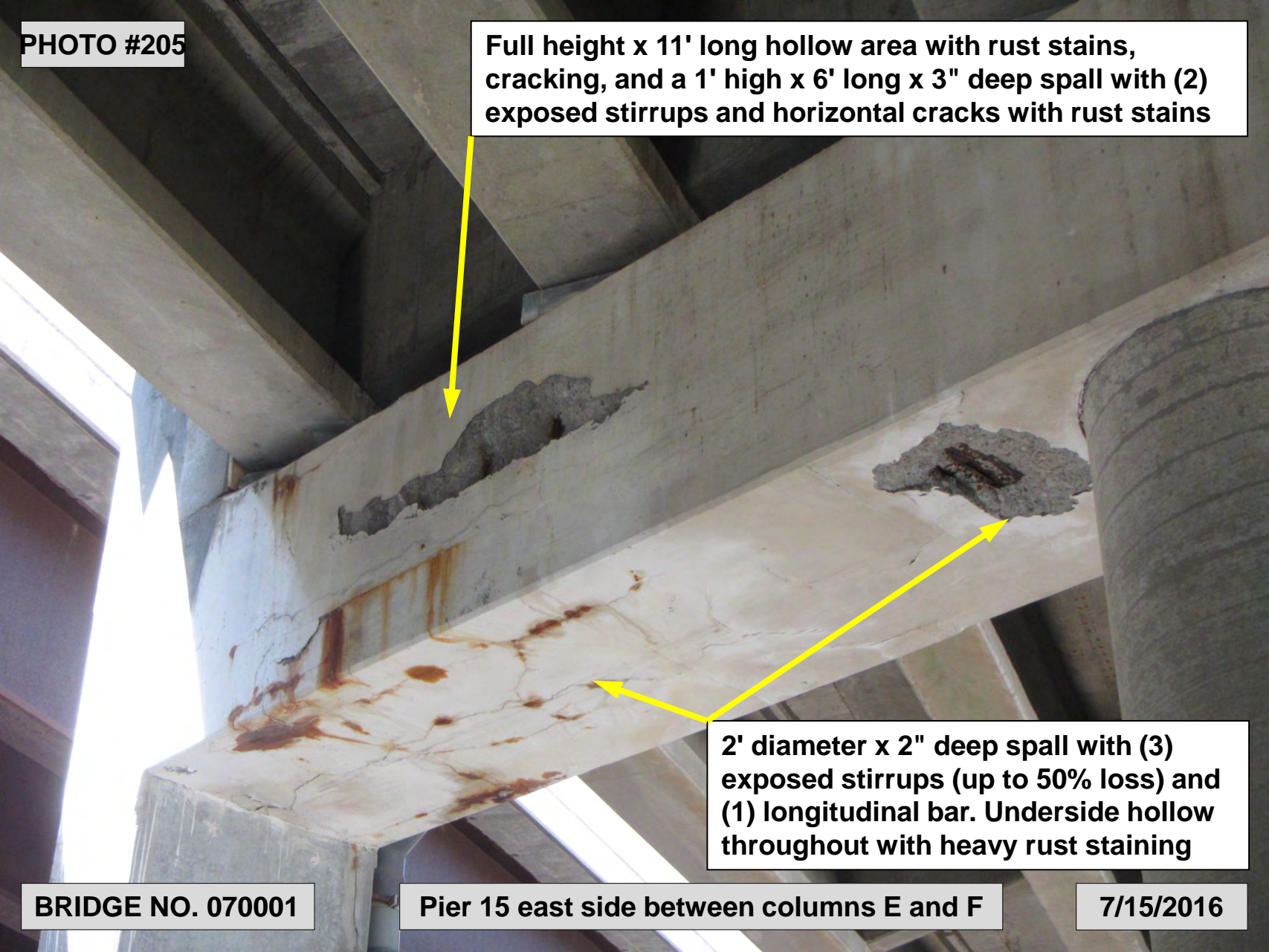
BRIDGE NO. 070001

Underside of pier 14 cap between columns A and B

7/15/2016

PHOTO #205

Full height x 11' long hollow area with rust stains, cracking, and a 1' high x 6' long x 3" deep spall with (2) exposed stirrups and horizontal cracks with rust stains



2' diameter x 2" deep spall with (3) exposed stirrups (up to 50% loss) and (1) longitudinal bar. Underside hollow throughout with heavy rust staining

BRIDGE NO. 070001

Pier 15 east side between columns E and F

7/15/2016

PHOTO #206

Full width x full length hollow area with 8' long x 3' wide x 4" deep spall with (9) exposed stirrups with up to 80% section loss and (5) exposed longitudinal bars with up to 25% loss. (1) Stirrup is snapped. See photo 207 for close-up



BRIDGE NO. 070001

Underside of pier 16 cap between columns A and B

7/15/2016

PHOTO #207

Snapped stirrup



**Same as photo 206 showing close-up
of spall with exposed rebar**

BRIDGE NO. 070001

7/15/2016

PHOTO #208



Full width x full length hollow area with 10' long x 3' wide x 4" deep spall with (10) exposed longitudinal bars, (11) exposed stirrups with up to 25% loss, and exposed wire mesh, cap concrete is hollow beyond the rebar. See photo 209 for close-up

BRIDGE NO. 070001

Underside of pier 17 cap between columns A and B

7/15/2016

PHOTO #209



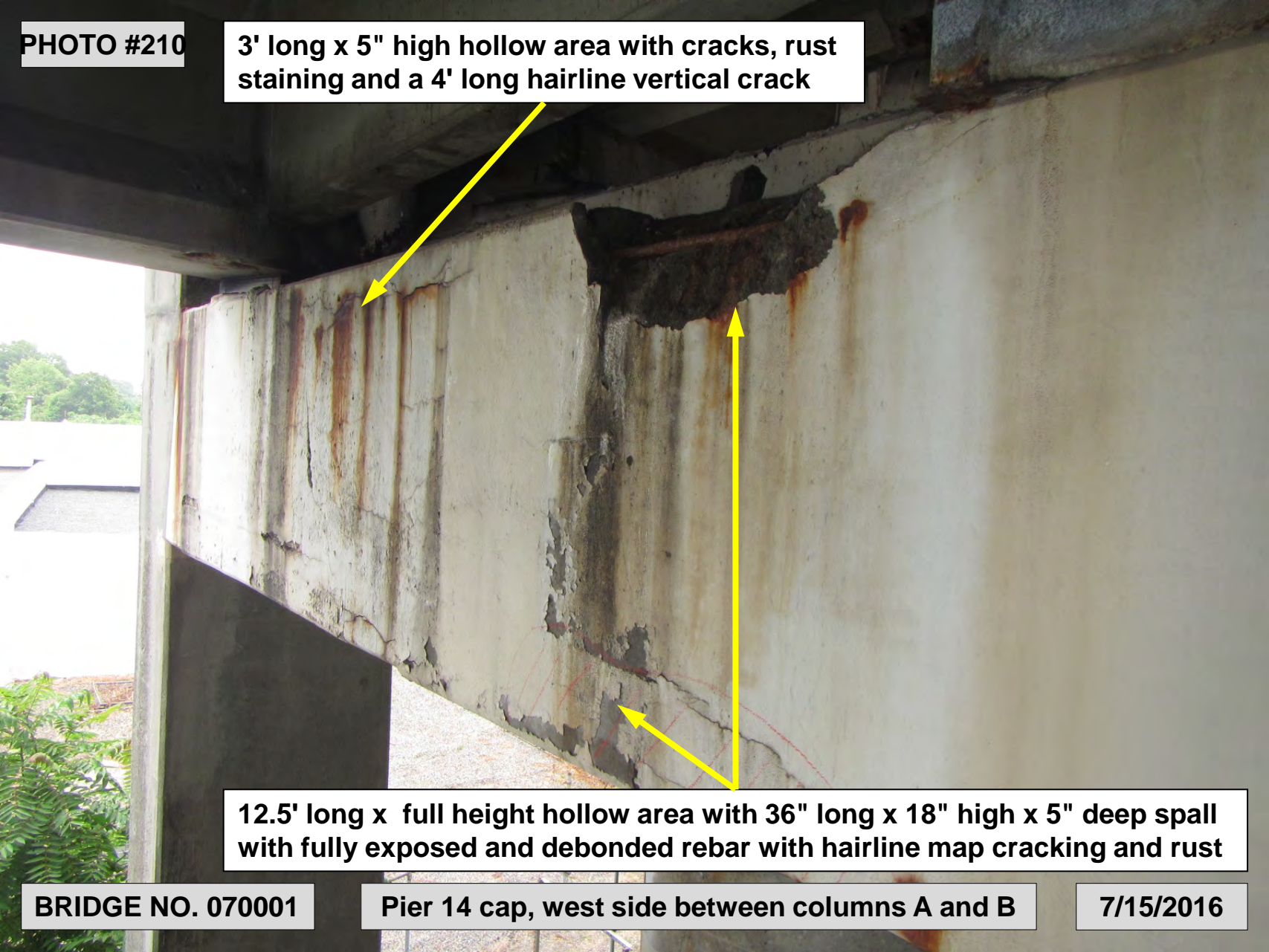
BRIDGE NO. 070001

**Same as photo 208 showing close-up
of spall with exposed rebar**

7/15/2016

PHOTO #210

3' long x 5" high hollow area with cracks, rust staining and a 4' long hairline vertical crack



12.5' long x full height hollow area with 36" long x 18" high x 5" deep spall with fully exposed and debonded rebar with hairline map cracking and rust

BRIDGE NO. 070001

Pier 14 cap, west side between columns A and B

7/15/2016

PHOTO #211



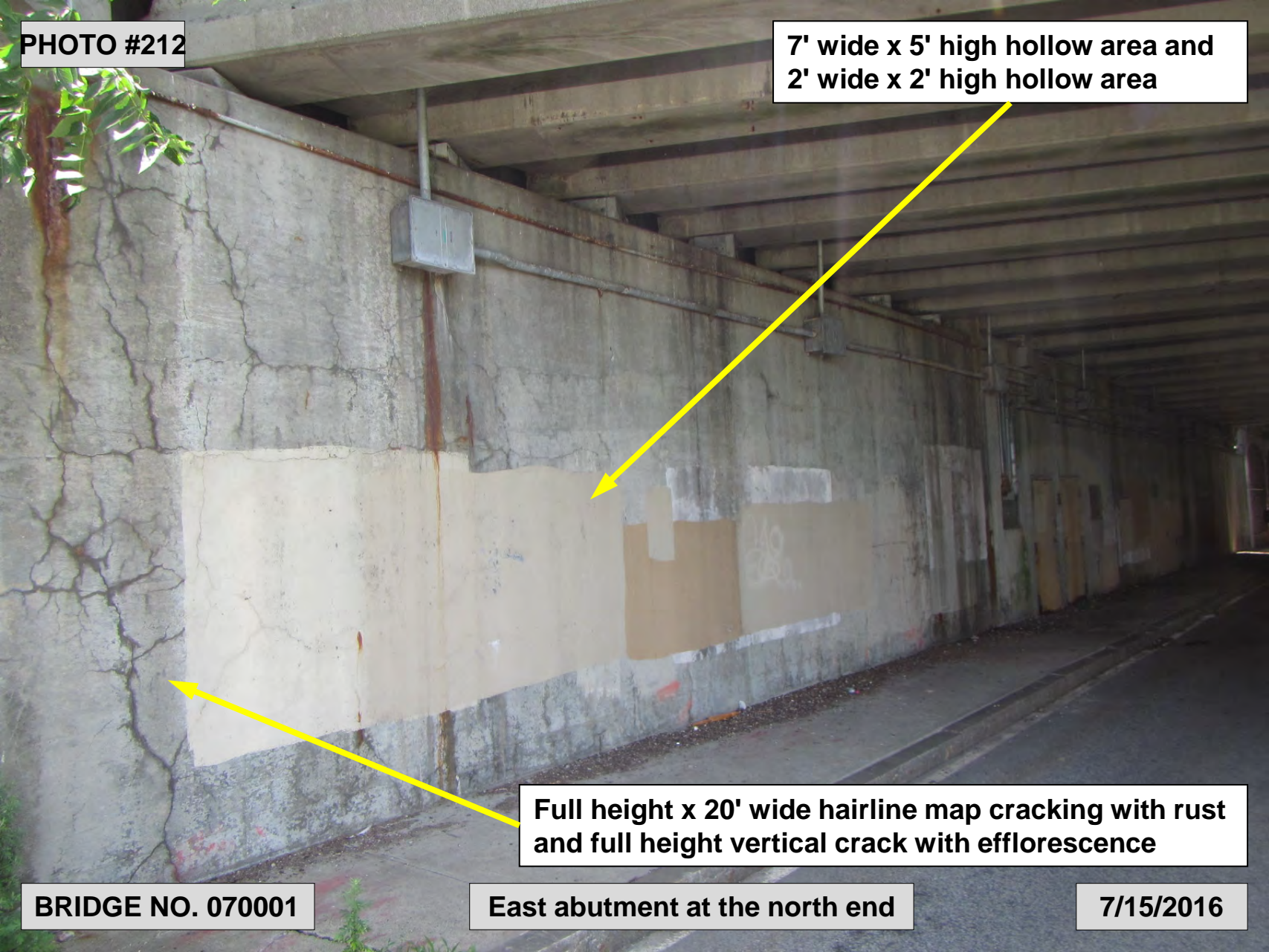
West abutment, bay A showing severe accumulation of pigeon debris

BRIDGE NO. 070001

7/15/2016

PHOTO #212

**7' wide x 5' high hollow area and
2' wide x 2' high hollow area**



**Full height x 20' wide hairline map cracking with rust
and full height vertical crack with efflorescence**

BRIDGE NO. 070001

East abutment at the north end

7/15/2016

PHOTO #213



BRIDGE NO. 070001

**Locked doors to electrical utility
room in the east abutment**

7/15/2016

PHOTO #214



Concrete discoloration and isolated hairline cracks (typical)

BRIDGE NO. 070001

Northwest return wall at the west abutment

7/15/2016

PHOTO #215

See photo 212



BRIDGE NO. 070001

Northeast return wall at the east abutment

7/15/2016

PHOTO #216



**Moderate to heavy
vegetation growth**

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Northwest return wall at abutment R

7/15/2016

PHOTO #217



Wingwall painted since previous inspection

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Northeast return wall at abutment R

7/15/2016

PHOTO #218

Full width x full height heavy rust staining and efflorescence with spalling throughout up to 1/2" deep

3' wide x 2' high x 2" deep spall

BRIDGE NO. 070001

Abutment R backwall looking west

7/15/2016

