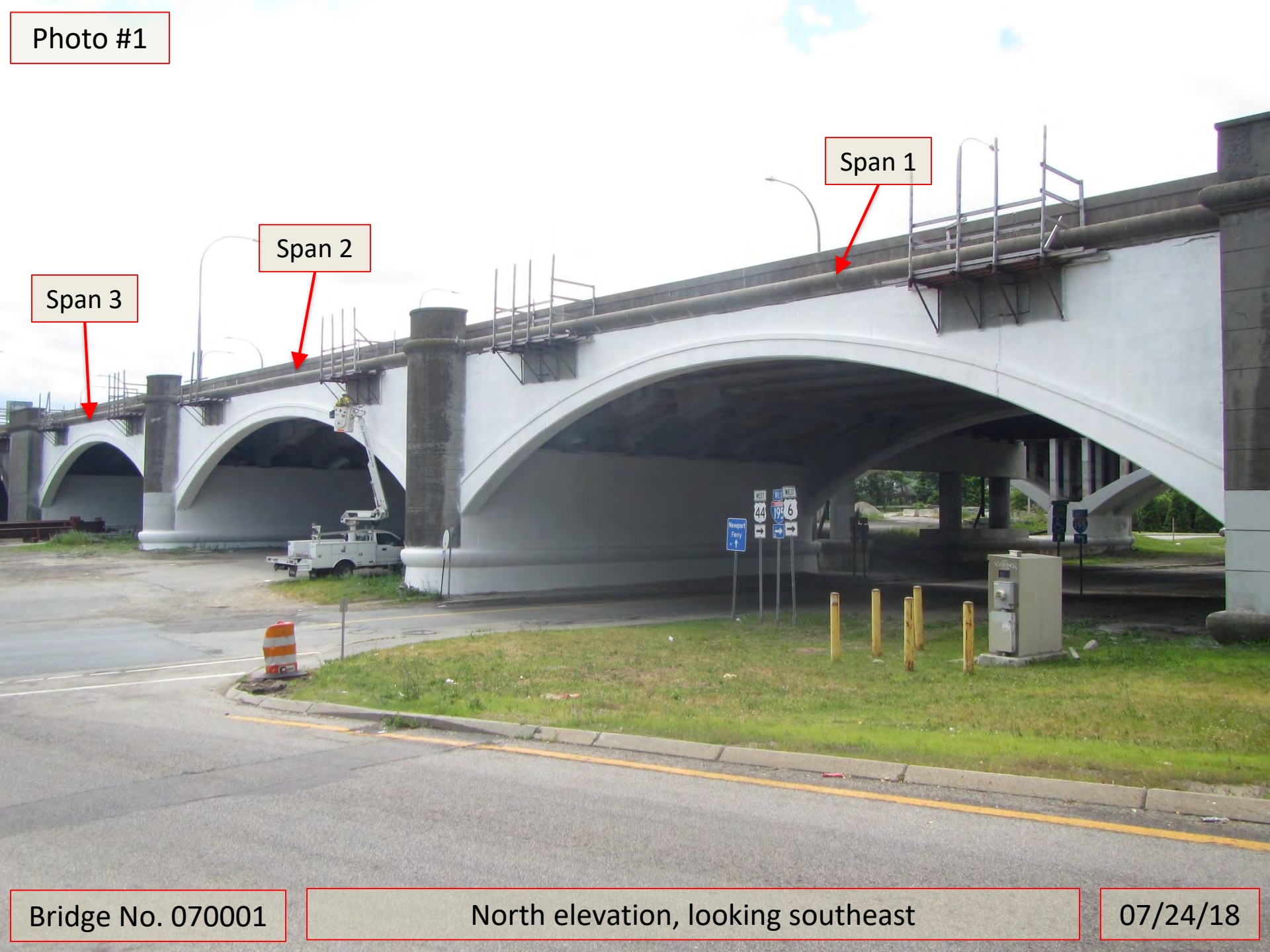
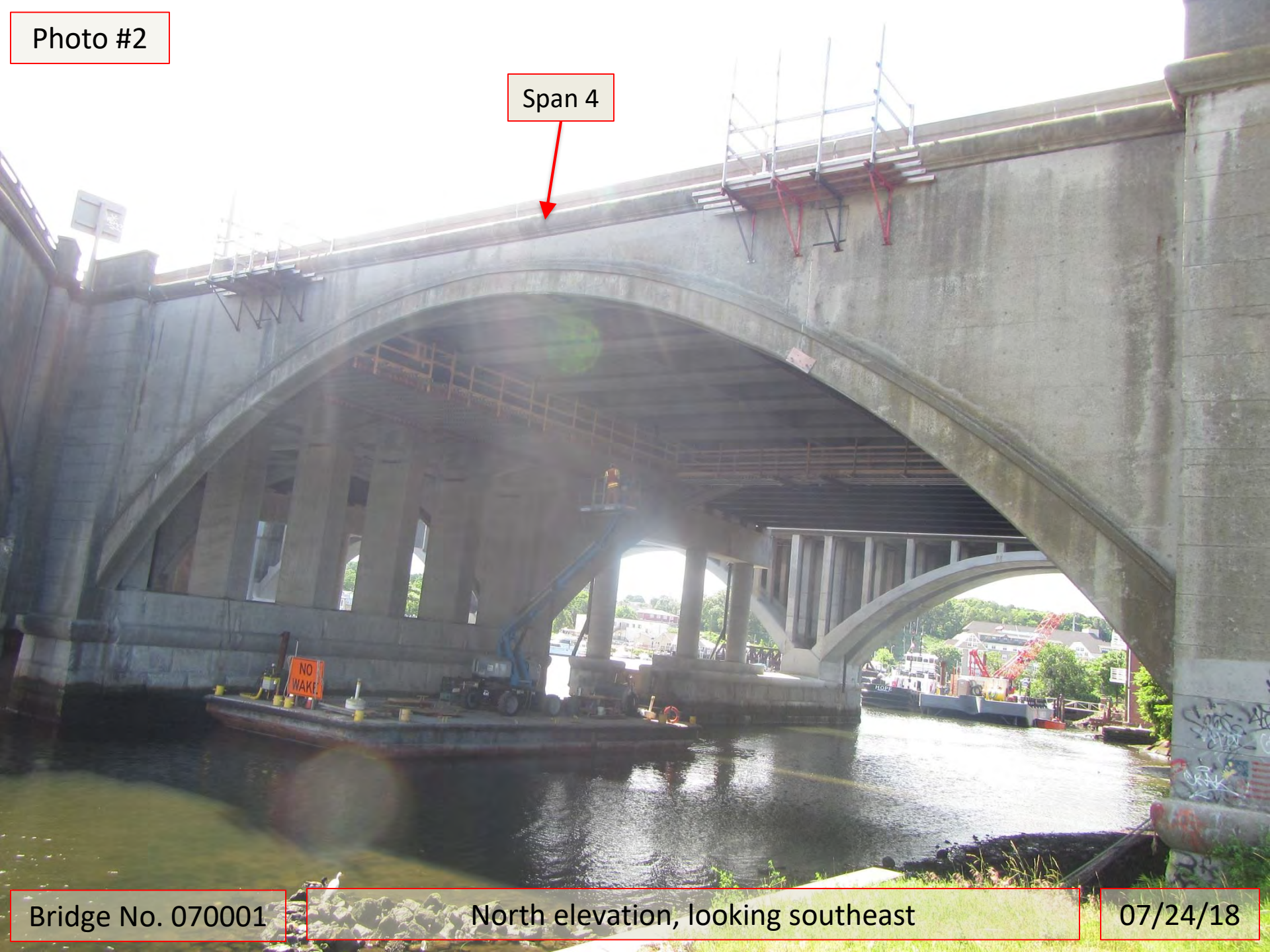
Photo #1



Bridge No. 070001

North elevation, looking southeast

07/24/18


Photo #2
Span 4
NO WAKE
Bridge No. 070001
North elevation, looking southeast
07/24/18

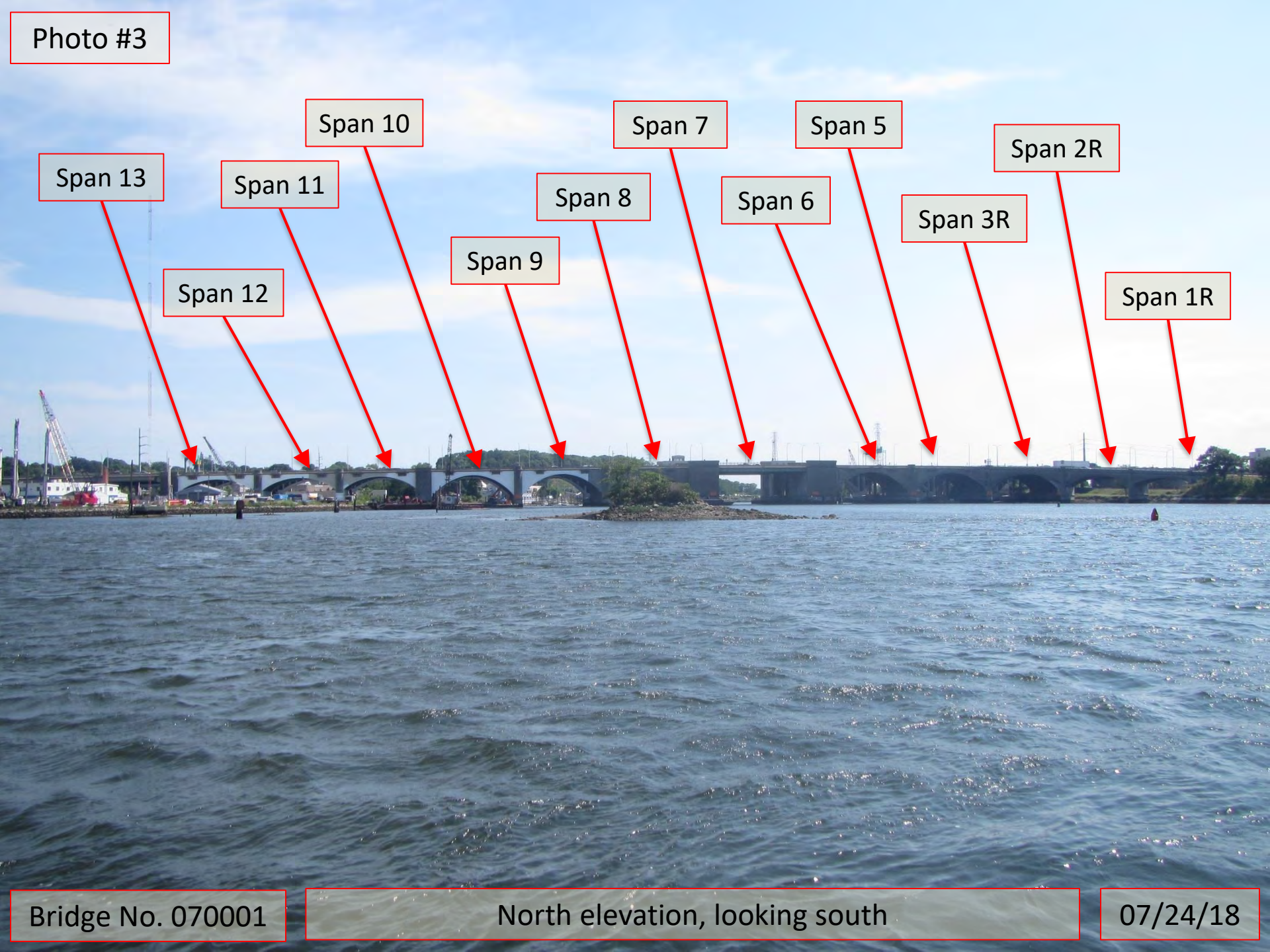

Photo #3
Span 13
Span 12
Span 11
Span 10
Span 9
Span 8
Span 7
Span 6
Span 5
Span 3R
Span 2R
Span 1R
Bridge No. 070001
North elevation, looking south
07/24/18


Photo #4
Span 16
Span 15
Span 14
Bridge No. 070001
North elevation, looking southwest
07/24/18


Photo #5
Span 18
Span 17
CARDI
CARDI
Bridge No. 070001
North elevation, looking south
07/24/18


Photo #6
Span 1
WEST TO
INTERSTATE HIGHWAY
195/95
Bridge No. 070001
South elevation, looking north
07/24/18


Photo #7
Span 2
Bridge No. 070001
South elevation, looking north
07/24/18


Photo #8
Span 3
Bridge No. 070001
South elevation, looking north
07/24/18


Photo #9
Span 4
Bridge No. 070001
South elevation, looking northwest
07/24/18


Photo #10
Span 5
Bridge No. 070001
South elevation, looking northwest
07/24/18


Photo #11
Span 6
Bridge No. 070001
South elevation, looking northwest
07/24/18


Photo #12
Span 7
Bridge No. 070001
South elevation, looking northwest
07/24/18


Photo #13
Span 9
Span 8
Bridge No. 070001
South elevation, looking northwest
07/24/18


Photo #14
Span 10
Bridge No. 070001
South elevation, looking northeast
07/24/18


Photo #15
Span 12
Span 13
Span 11
Bridge No. 070001
South elevation, looking northwest
07/24/18

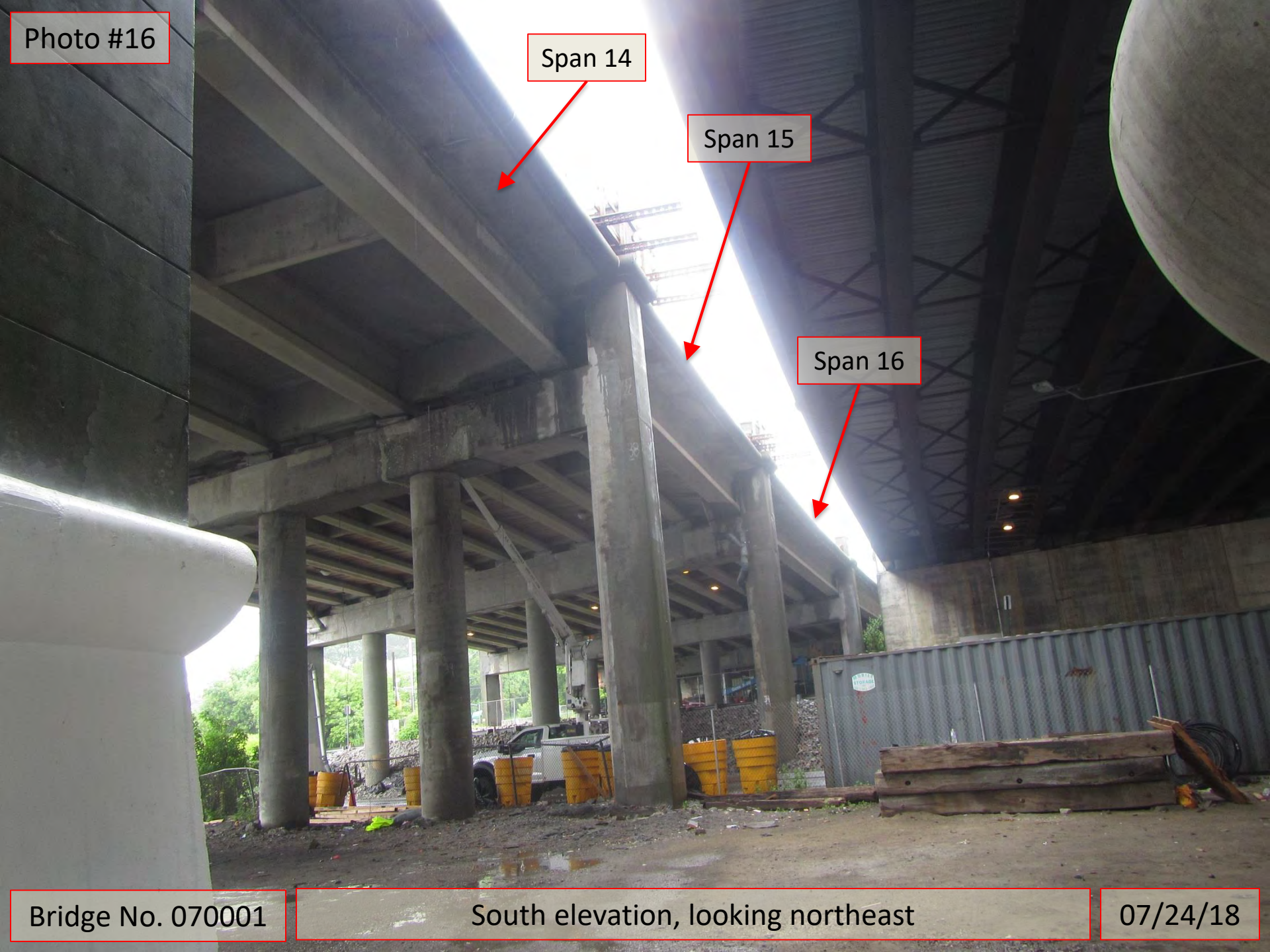

Photo #16
Span 14
Span 15
Span 16
Bridge No. 070001
South elevation, looking northeast
07/24/18


Photo #17
Span 17
Bridge No. 070001
South elevation, looking northwest
07/24/18


Photo #18
Span 18
13'-9"
Bridge No. 070001
South elevation, looking northwest
07/24/18

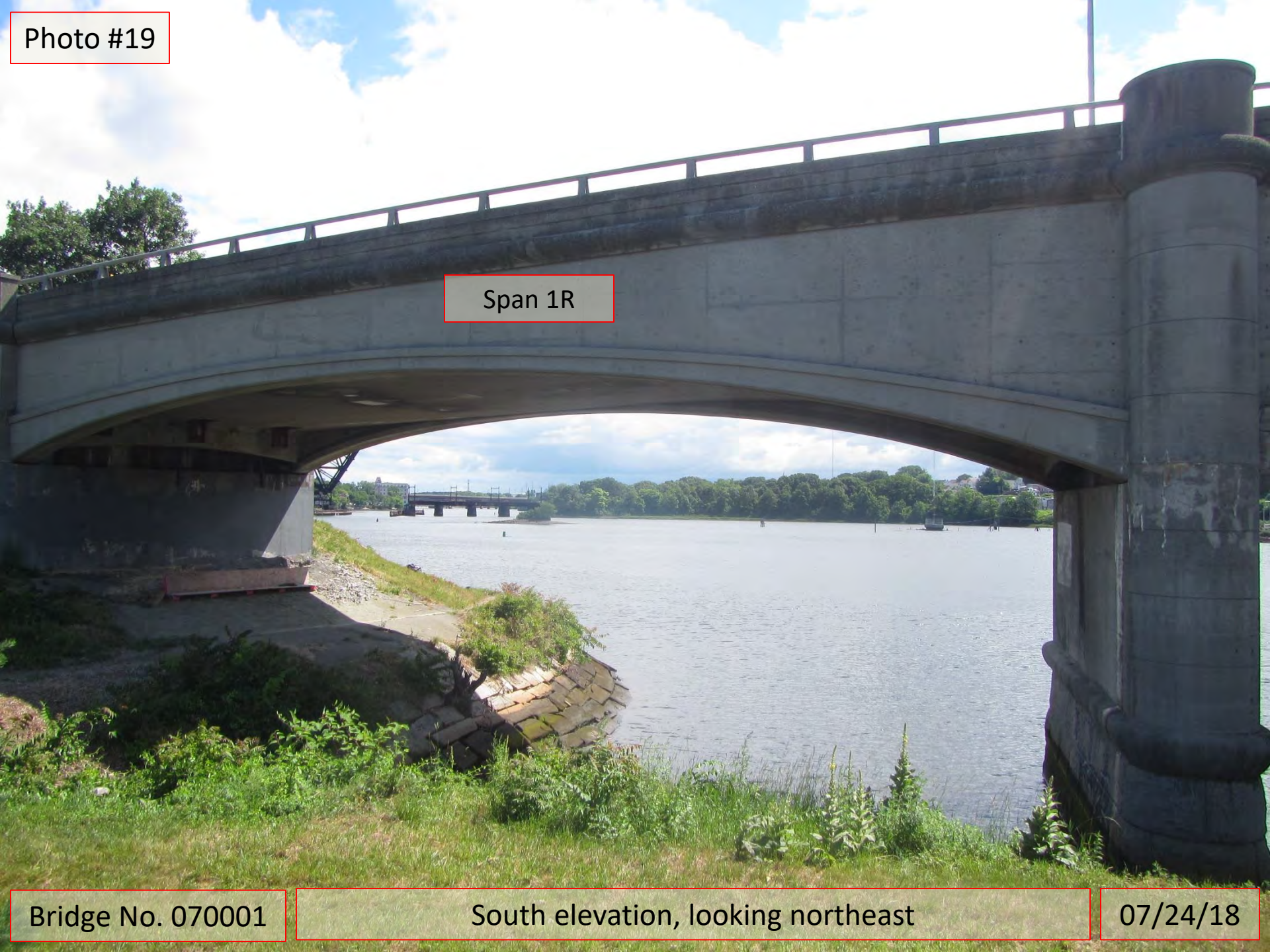

Photo #19
Span 1R
Bridge No. 070001
South elevation, looking northeast
07/24/18


Photo #20
Span 2R
JLG LIFT
United Rentals
Bridge No. 070001
South elevation, looking northeast
07/24/18


Photo #21
Span 3R
Bridge No. 070001
South elevation, looking northeast
07/24/18


Photo #22
Bridge extents
195
6
EAST
103
Warren
West approach
Bridge No. 070001
Bridge from west approach, looking east
07/24/18


Photo #23
Bridge extents
Bridge
Bridge No. 070001
West approach from bridge, looking west
07/24/18


Photo #24
Bridge extents
East approach
Bridge
Bridge No. 070001
East approach from bridge, looking east
07/24/18


Photo #25
Bridge extents
East approach
Bridge No. 070001
Bridge from east approach, looking west
07/24/18

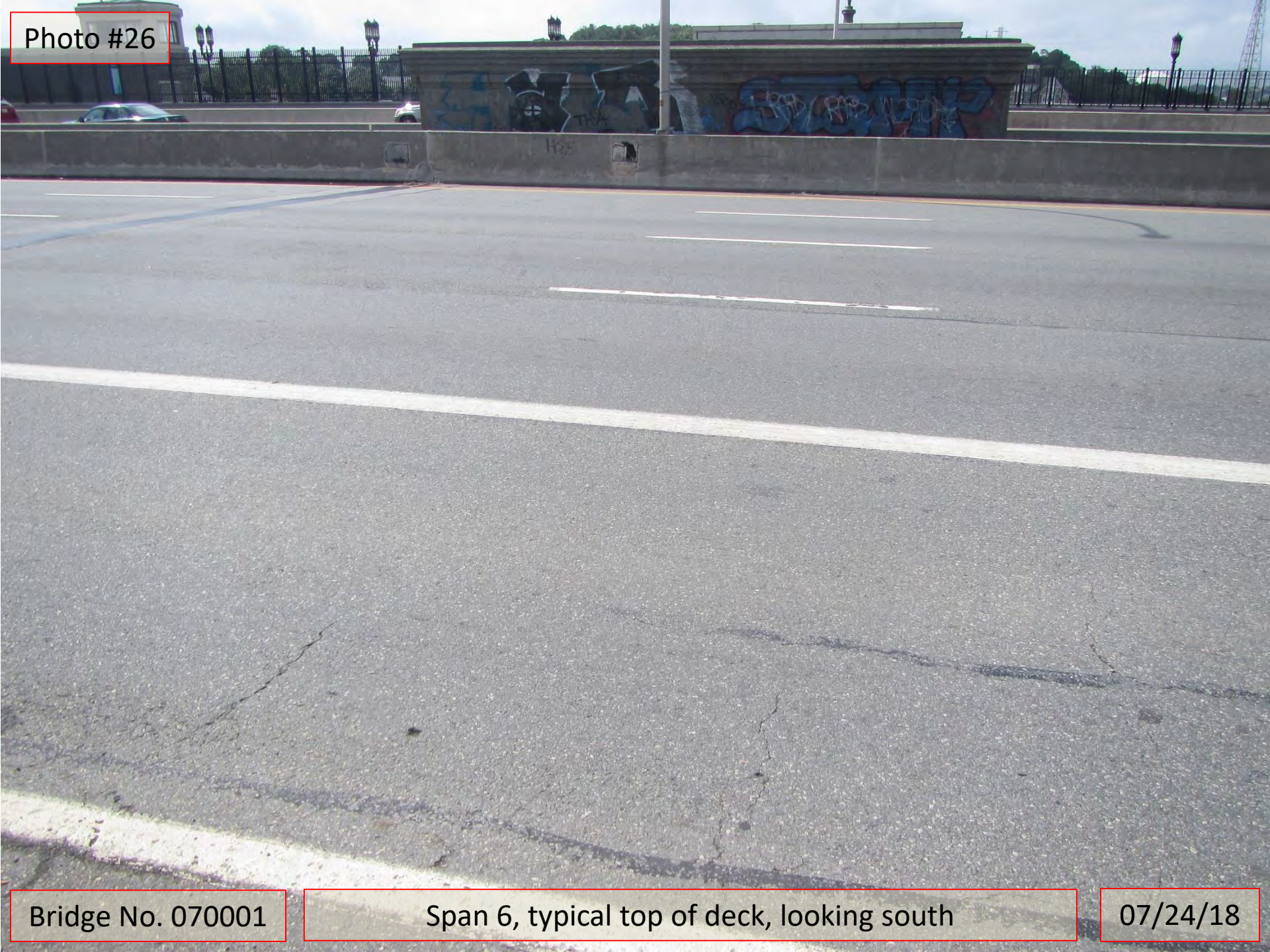
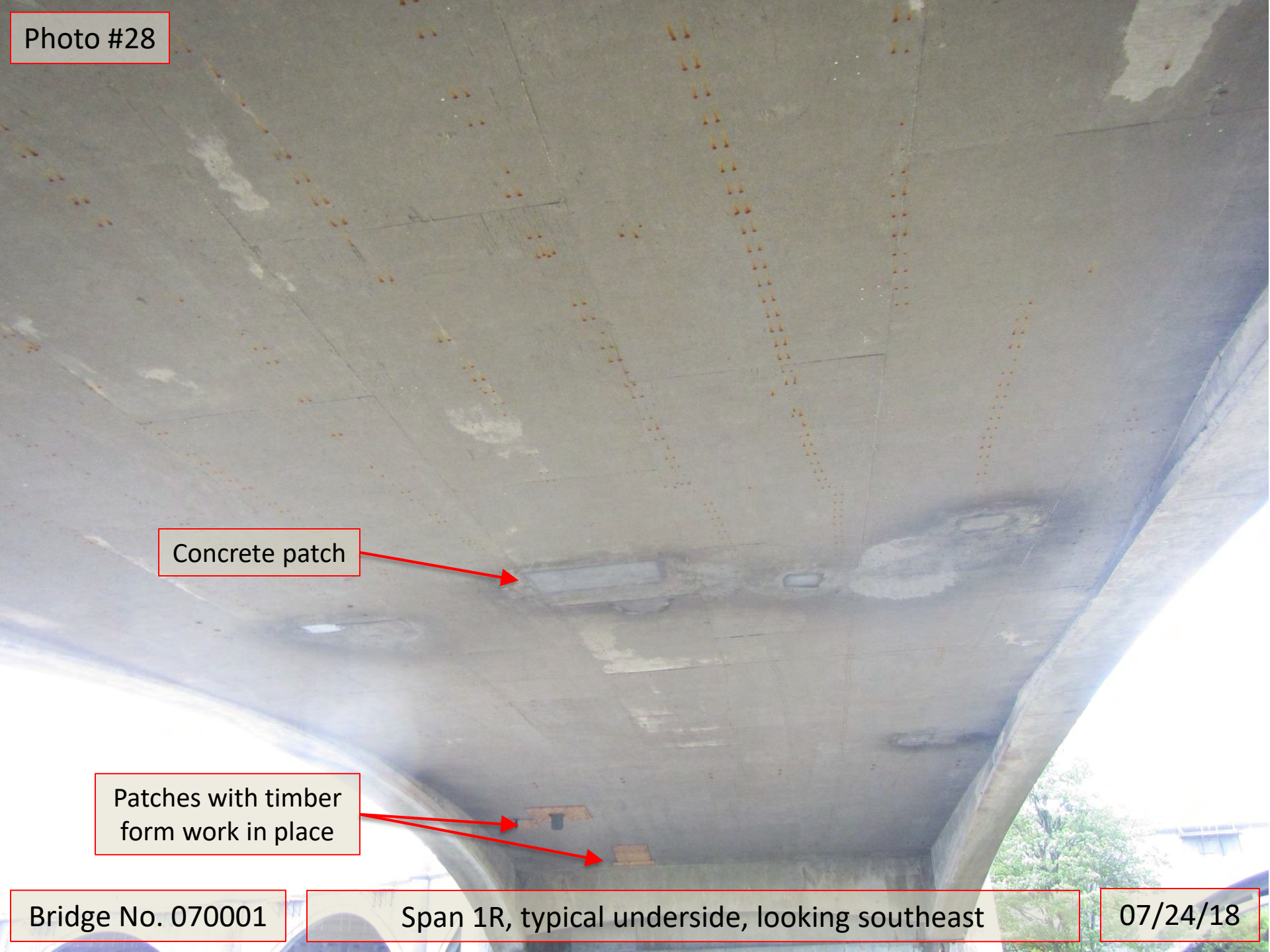
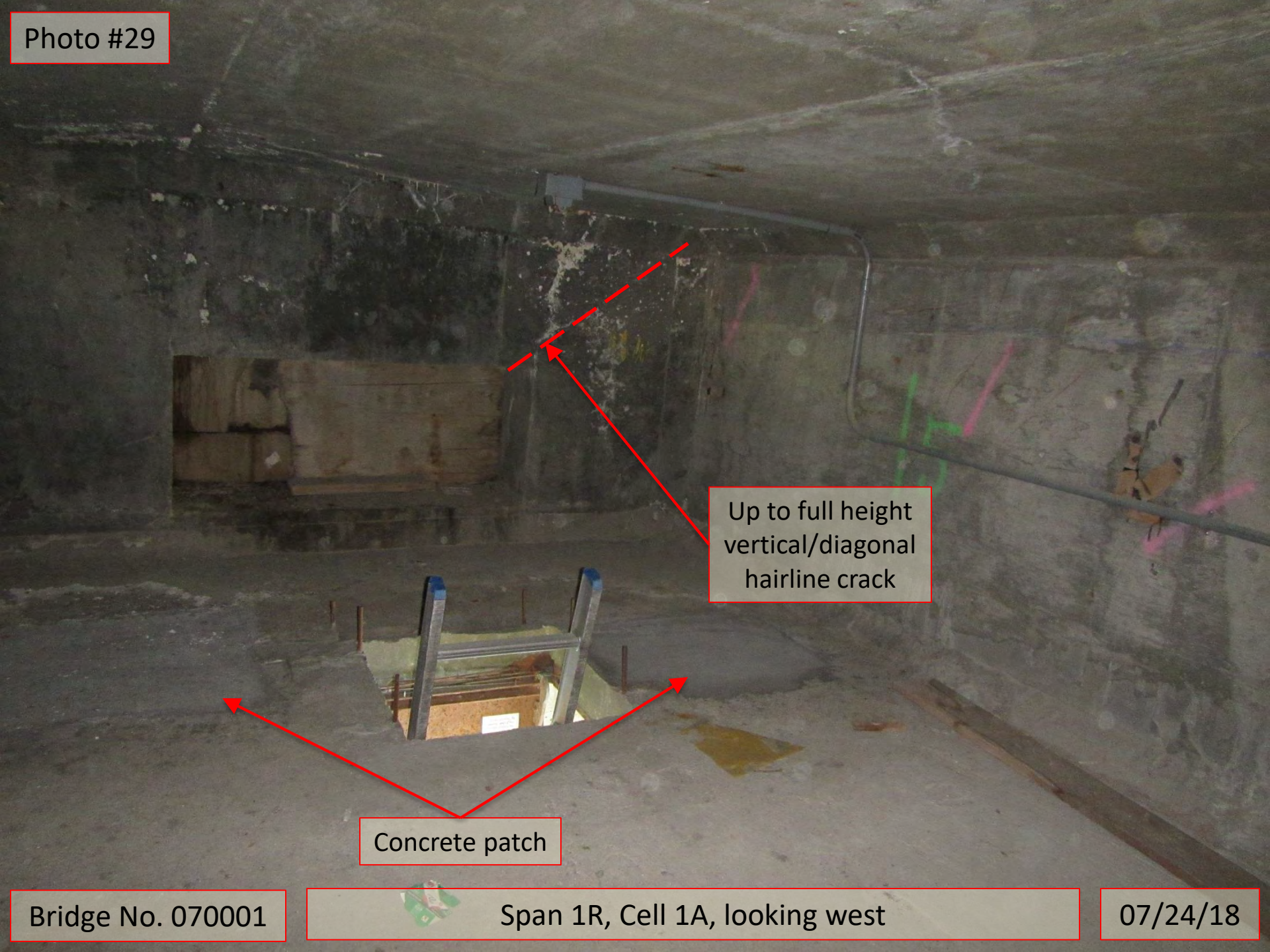

Photo #26
Bridge No. 070001
Span 6, typical top of deck, looking south
07/24/18


Photo #27
Bridge No. 070001
Span 7, typical top of deck, looking southeast
07/24/18


Photo #28
Concrete patch
Patches with timber form work in place
Bridge No. 070001
Span 1R, typical underside, looking southeast
07/24/18


Photo #29
Up to full height vertical/diagonal hairline crack
Concrete patch
Bridge No. 070001
Span 1R, Cell 1A, looking west
07/24/18

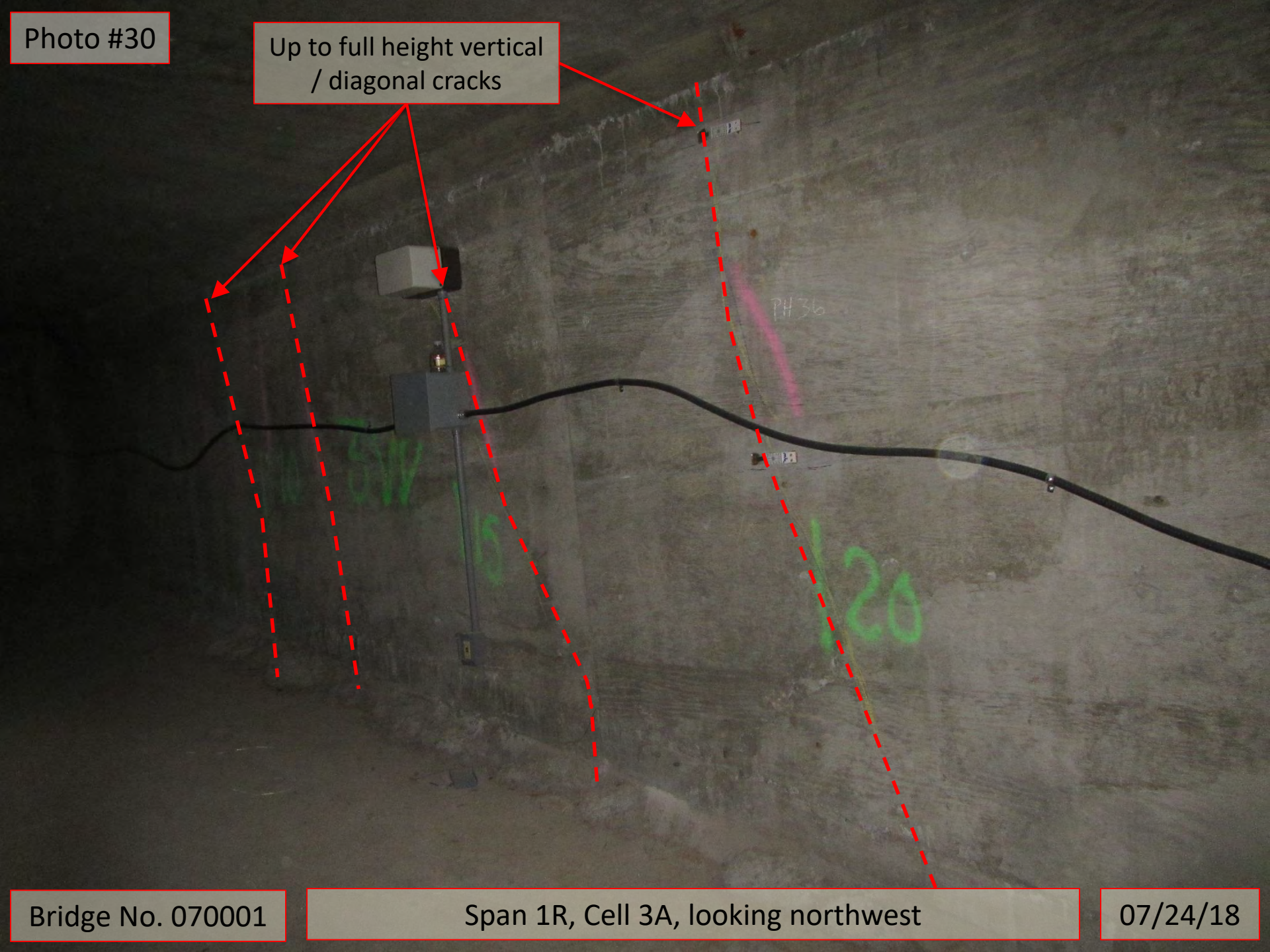

Photo #30
Up to full height vertical / diagonal cracks
Bridge No. 070001
Span 1R, Cell 3A, looking northwest
07/24/18


Photo #31
Up to full width transverse hairline cracks
Bridge No. 070001
Span 1R, Cell 2C, looking west
07/24/18

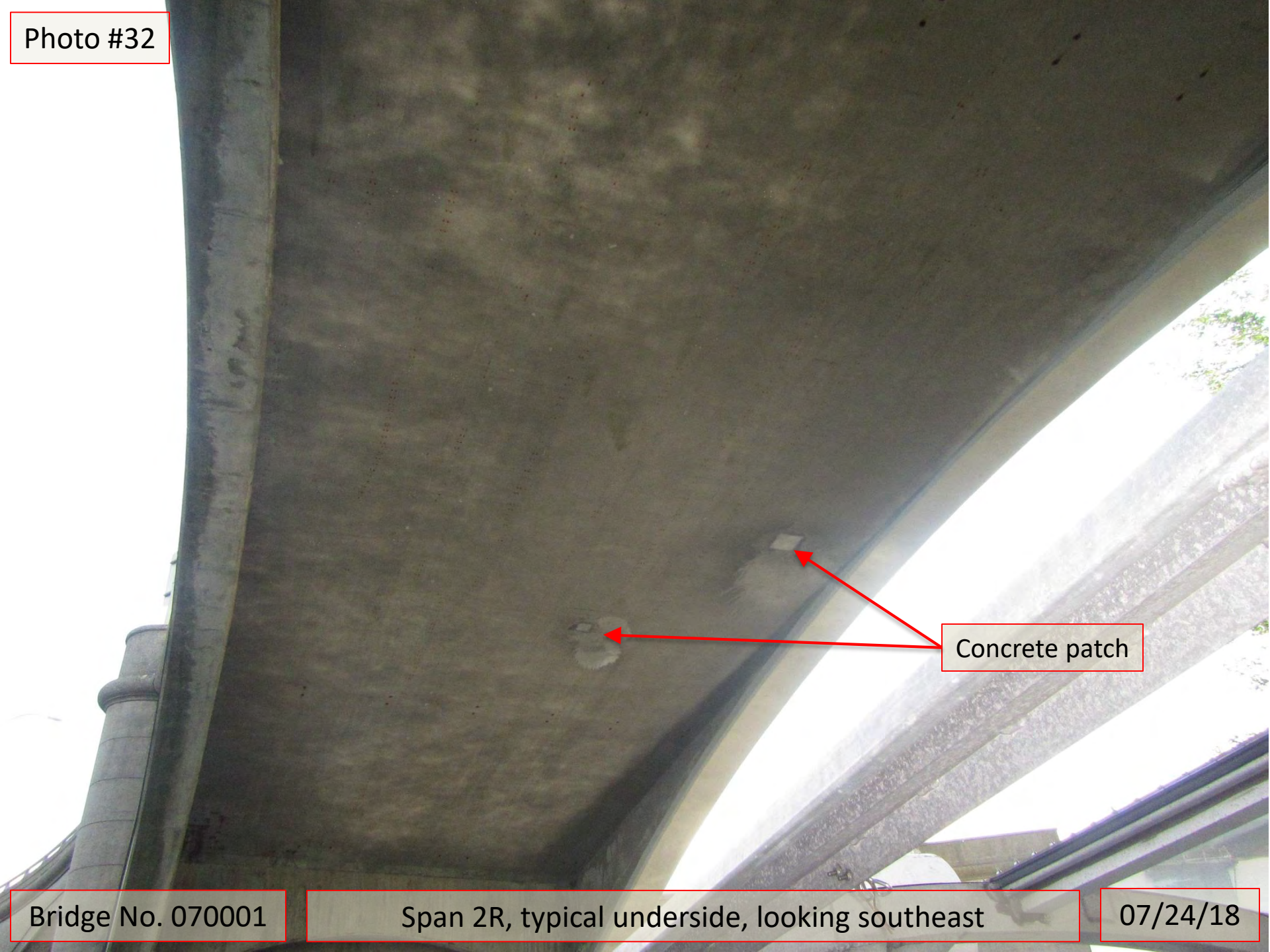
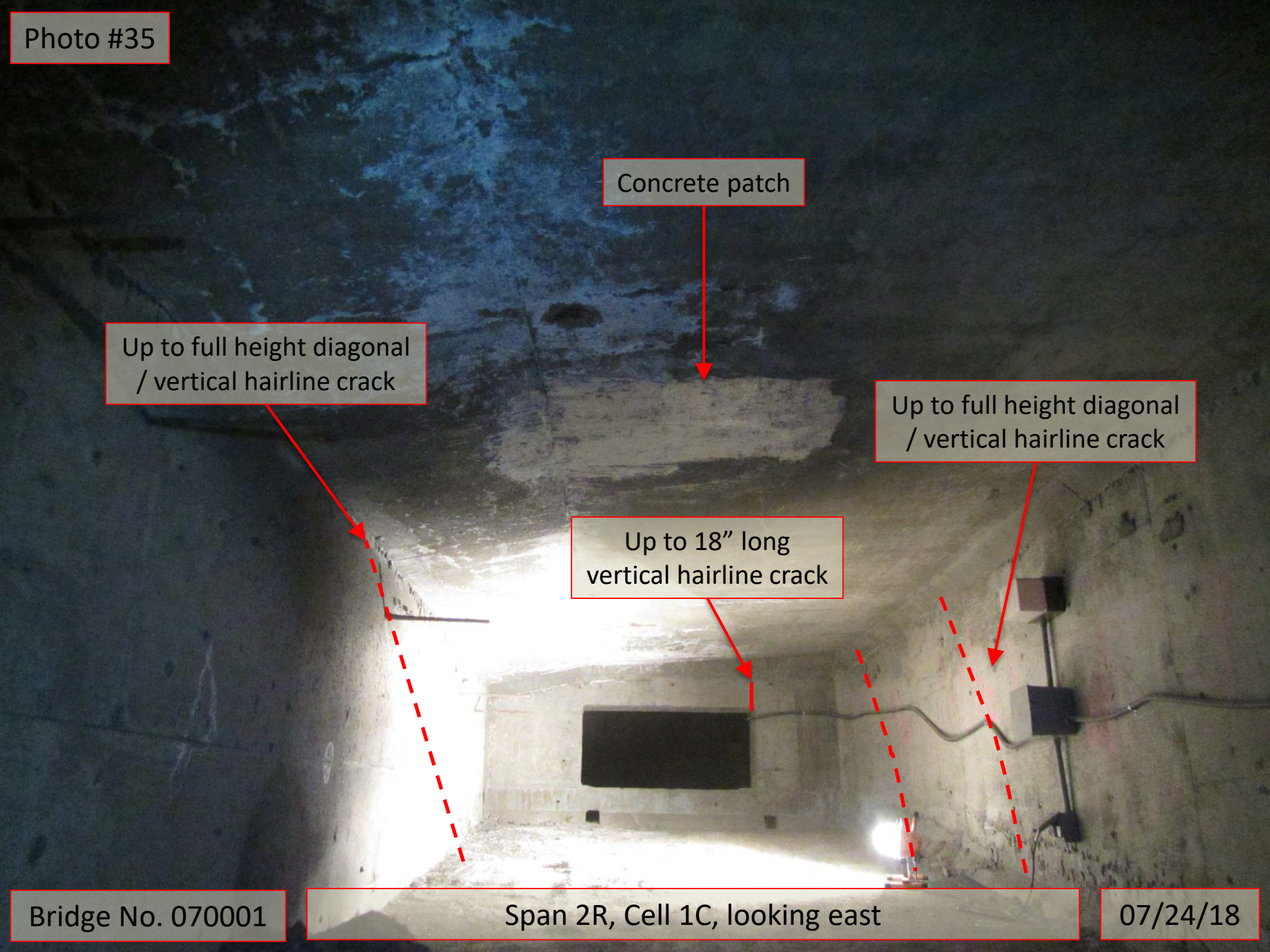
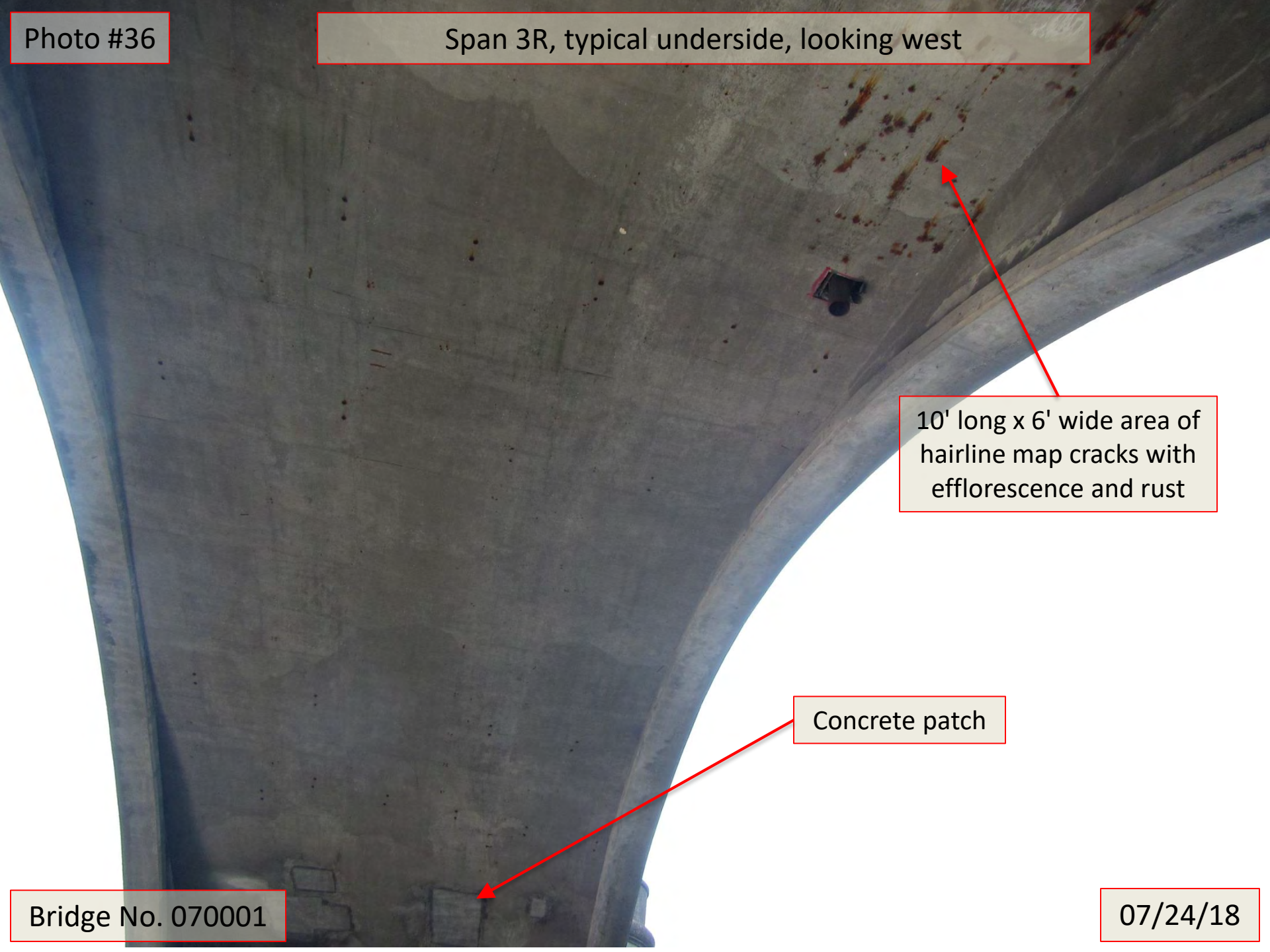
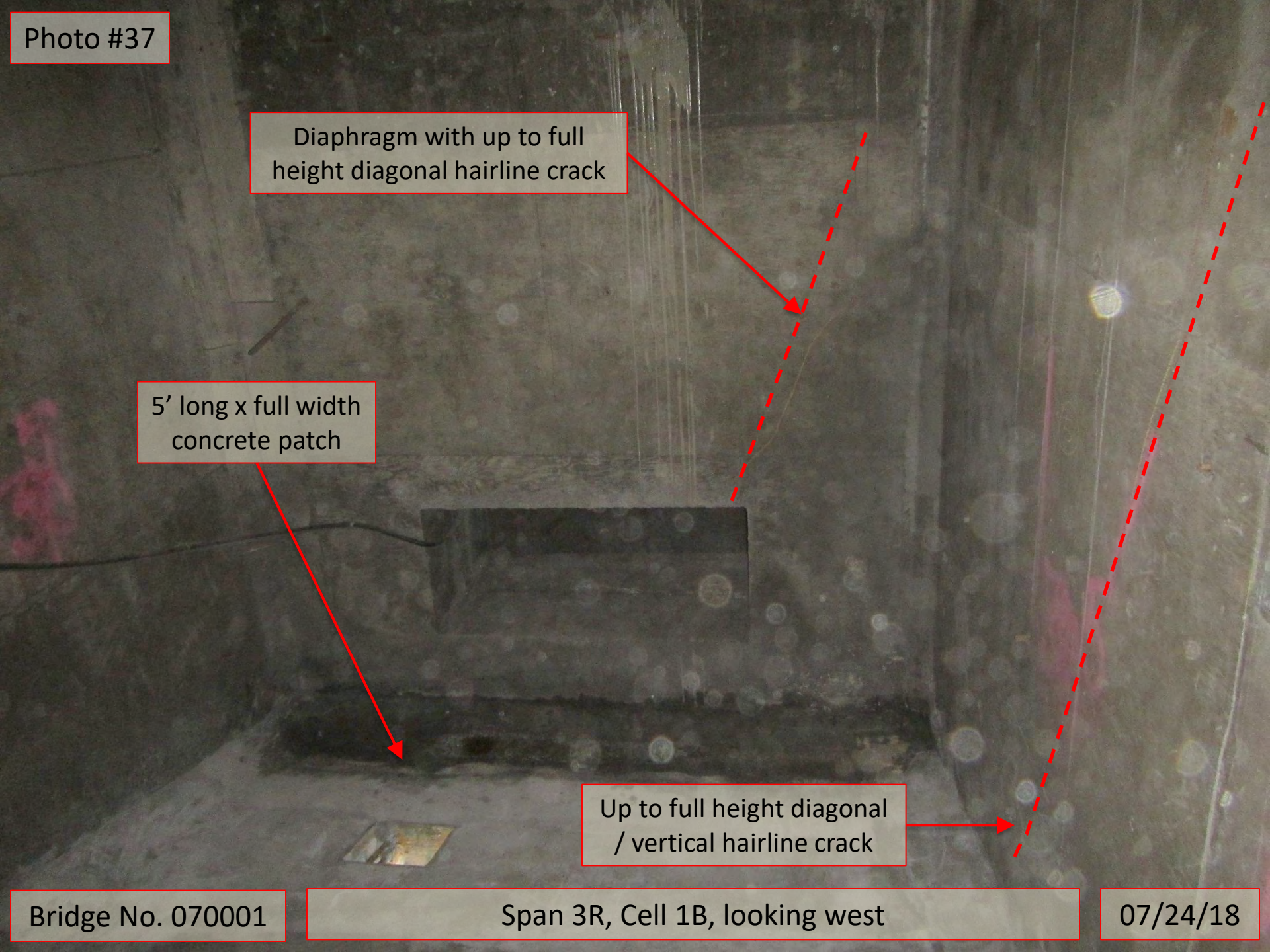

Photo #32
Concrete patch
Bridge No. 070001
Span 2R, typical underside, looking southeast
07/24/18


Photo #33
Concrete Patch
Bridge No. 070001
Span 2R, Cell 1B, looking east
07/24/18


Photo #34
Concrete Patch
Bridge No. 070001
Span 2R, Cell 2B, looking east
07/24/18


Photo #35
Concrete patch
Up to full height diagonal / vertical hairline crack
Up to full height diagonal / vertical hairline crack
Up to 18” long vertical hairline crack
Bridge No. 070001
Span 2R, Cell 1C, looking east
07/24/18


Photo #36
Span 3R, typical underside, looking west
10' long x 6' wide area of hairline map cracks with efflorescence and rust
Concrete patch
Bridge No. 070001
07/24/18


Photo #37
Diaphragm with up to full height diagonal hairline crack
5’ long x full width concrete patch
Up to full height diagonal / vertical hairline crack
Bridge No. 070001
Span 3R, Cell 1B, looking west
07/24/18

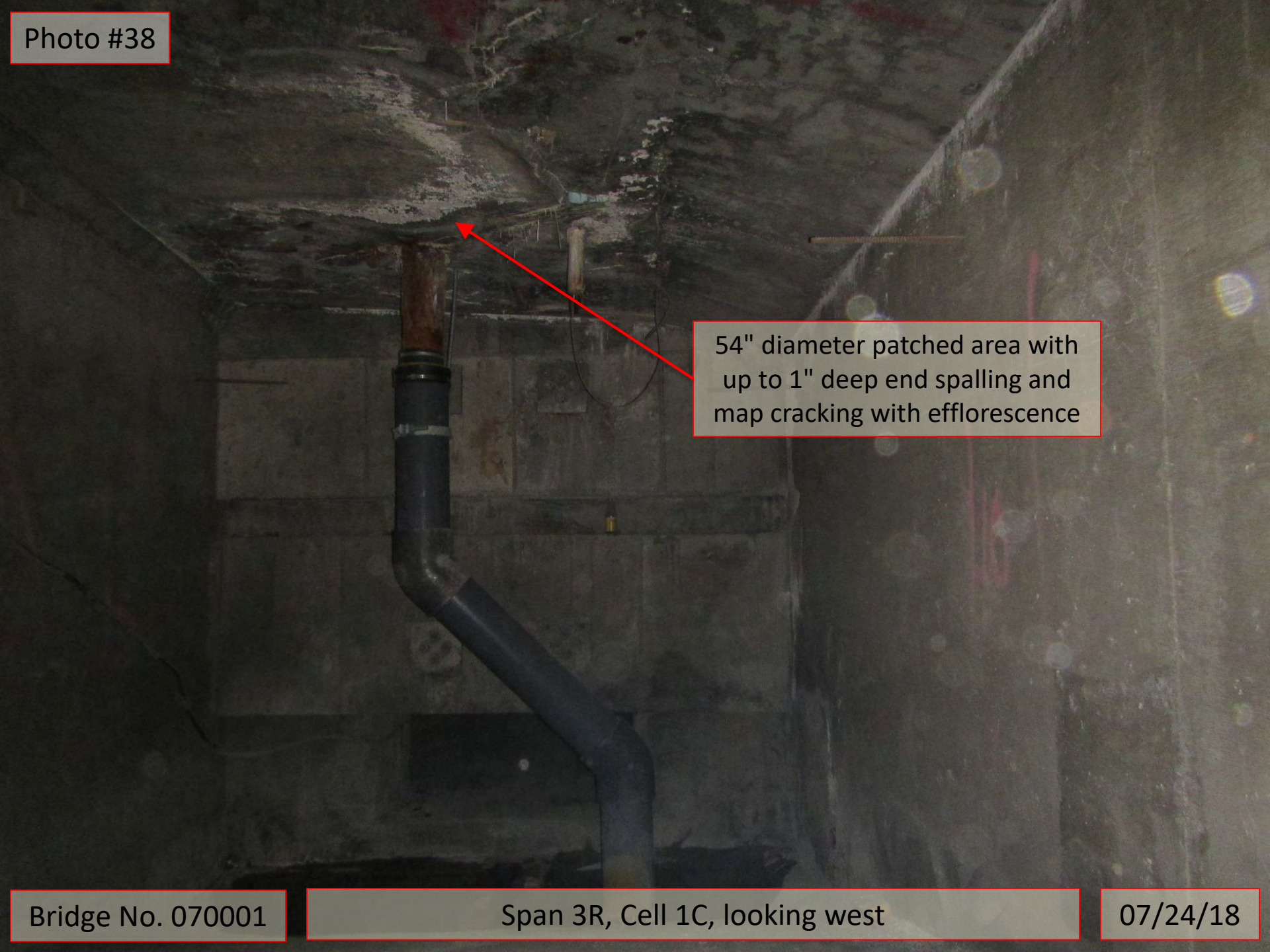
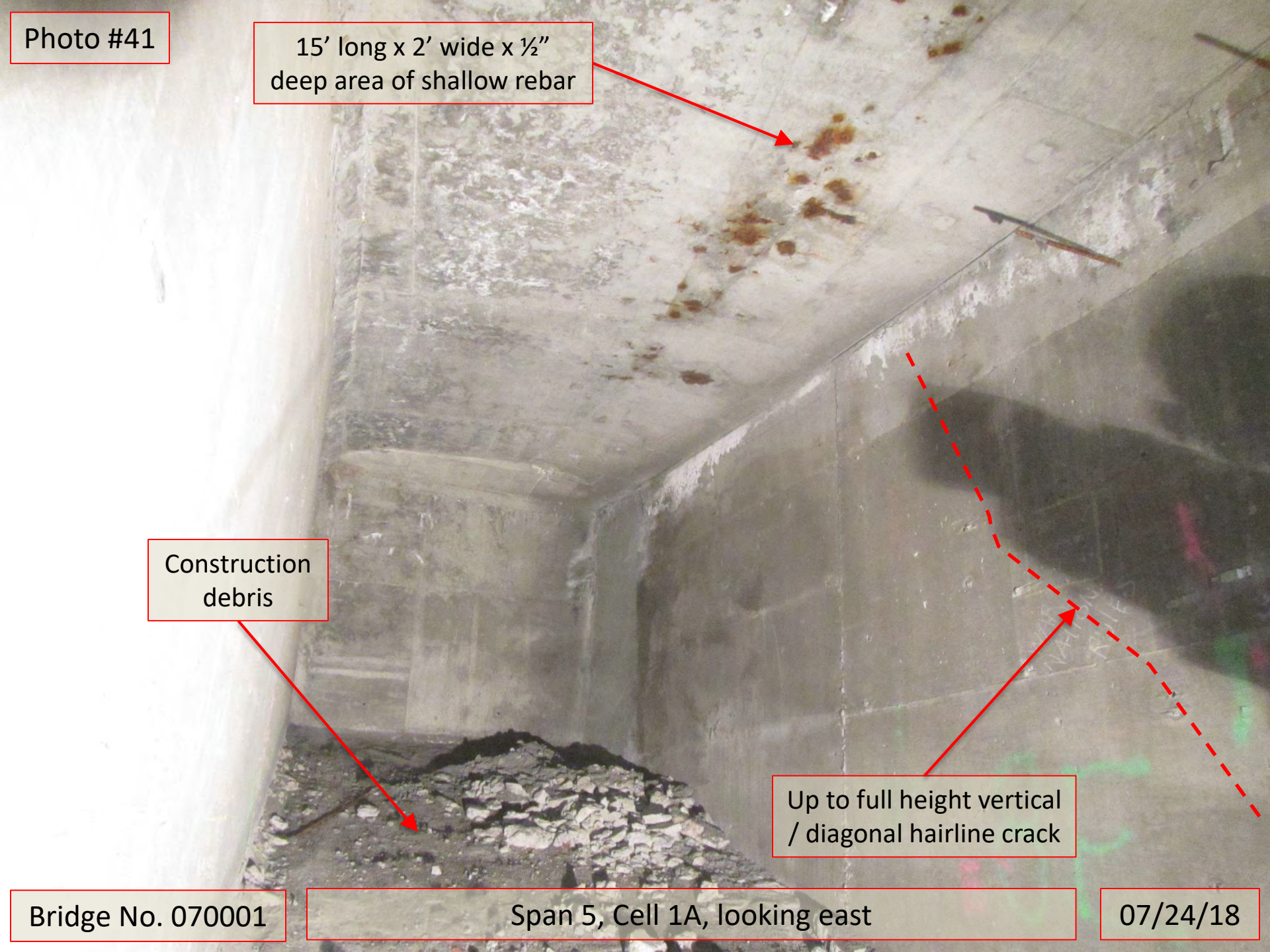

Photo #38
54" diameter patched area with up to 1" deep end spalling and map cracking with efflorescence
Bridge No. 070001
Span 3R, Cell 1C, looking west
07/24/18


Photo #39
Concrete patch
Bridge No. 070001
Span 3R, Cell 3C, looking northeast
07/24/18


Photo #40
6" diameter x 1" dep spall with exposed rebar
Concrete patches
Bridge No. 070001
Span 5, typical underside of ramp, looking northwest
07/24/18


Photo #41
15’ long x 2’ wide x ½”
deep area of shallow rebar
Construction
debris
Up to full height vertical
/ diagonal hairline crack
Bridge No. 070001
Span 5, Cell 1A, looking east
07/24/18

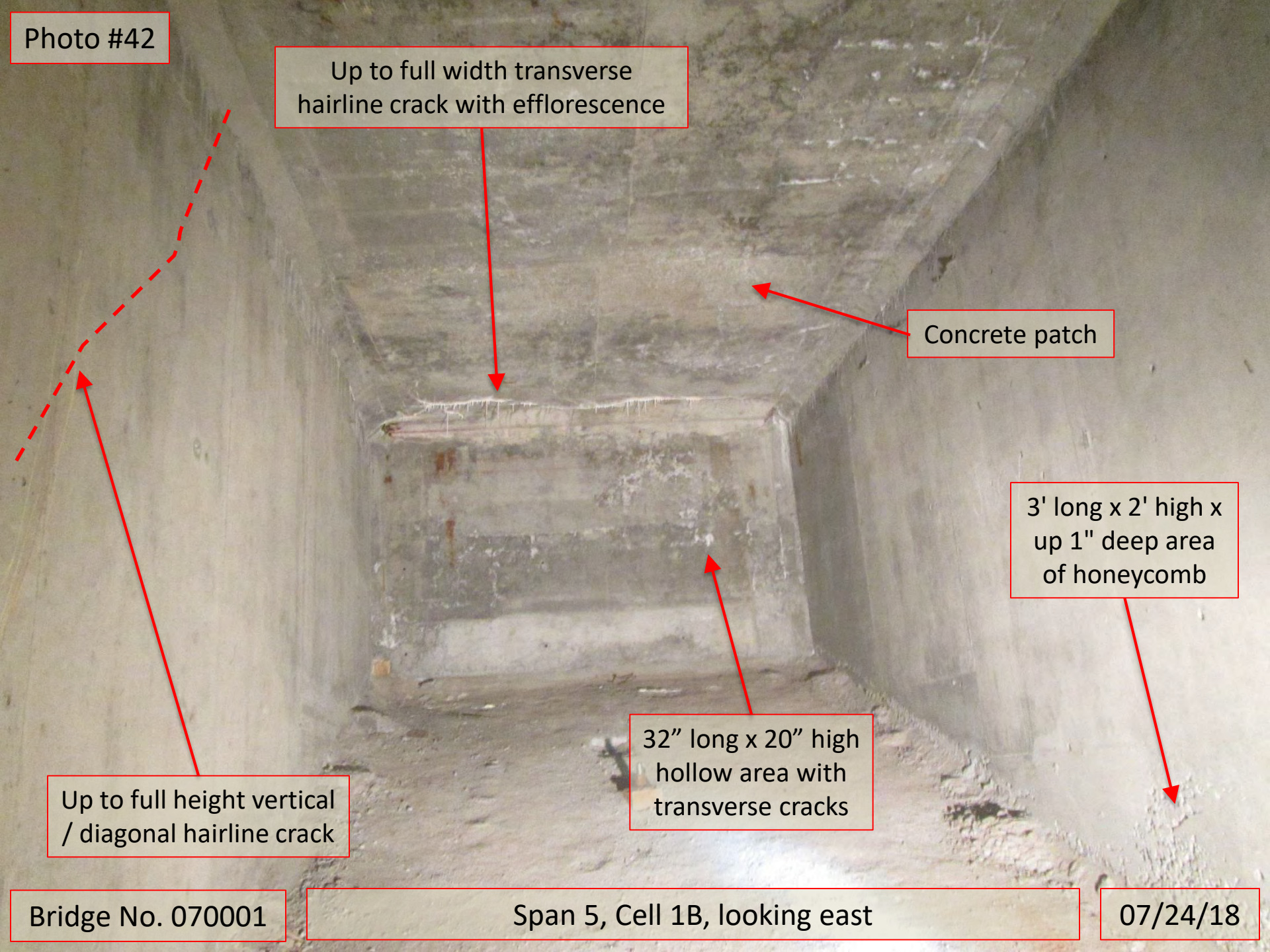
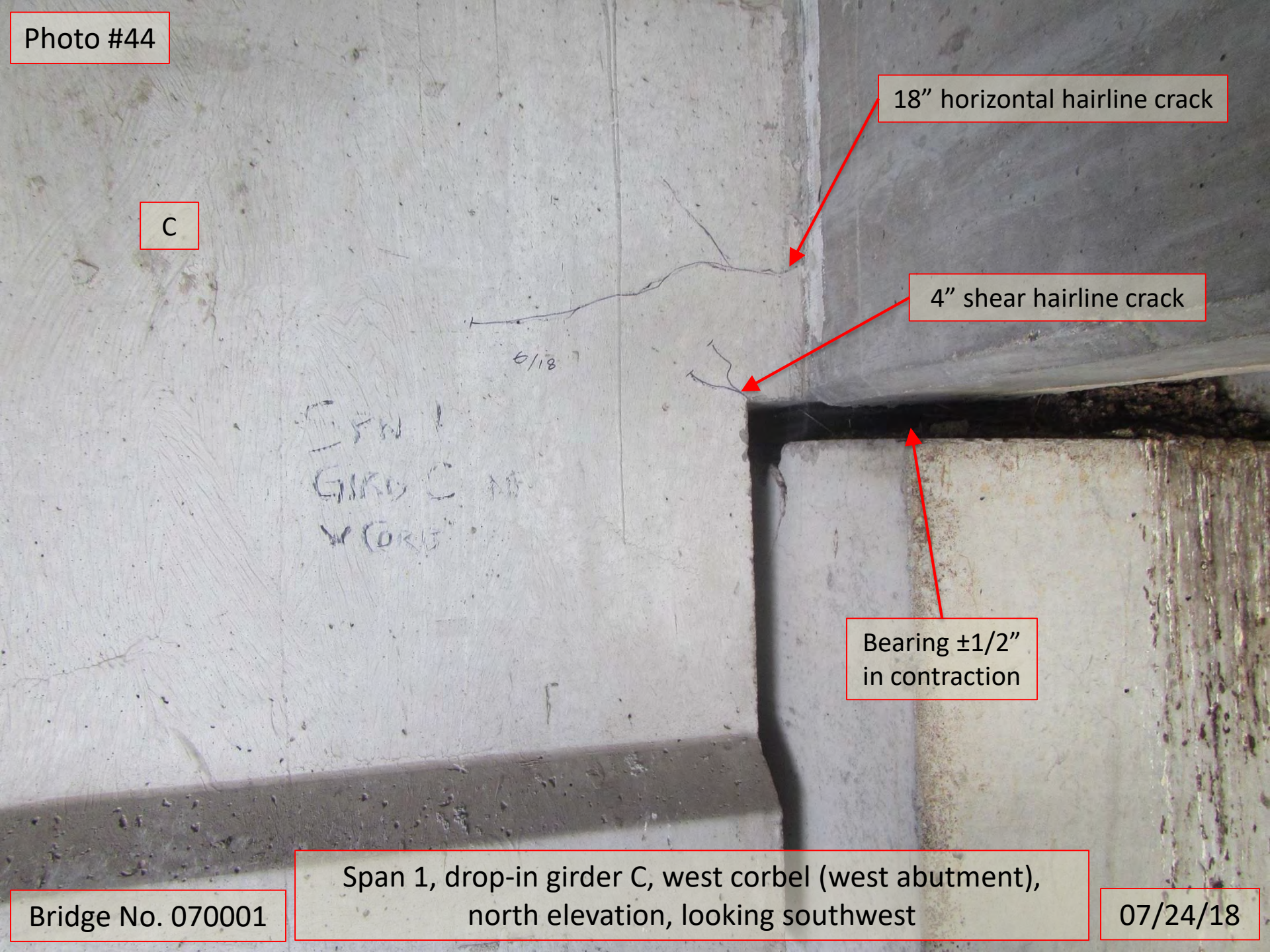
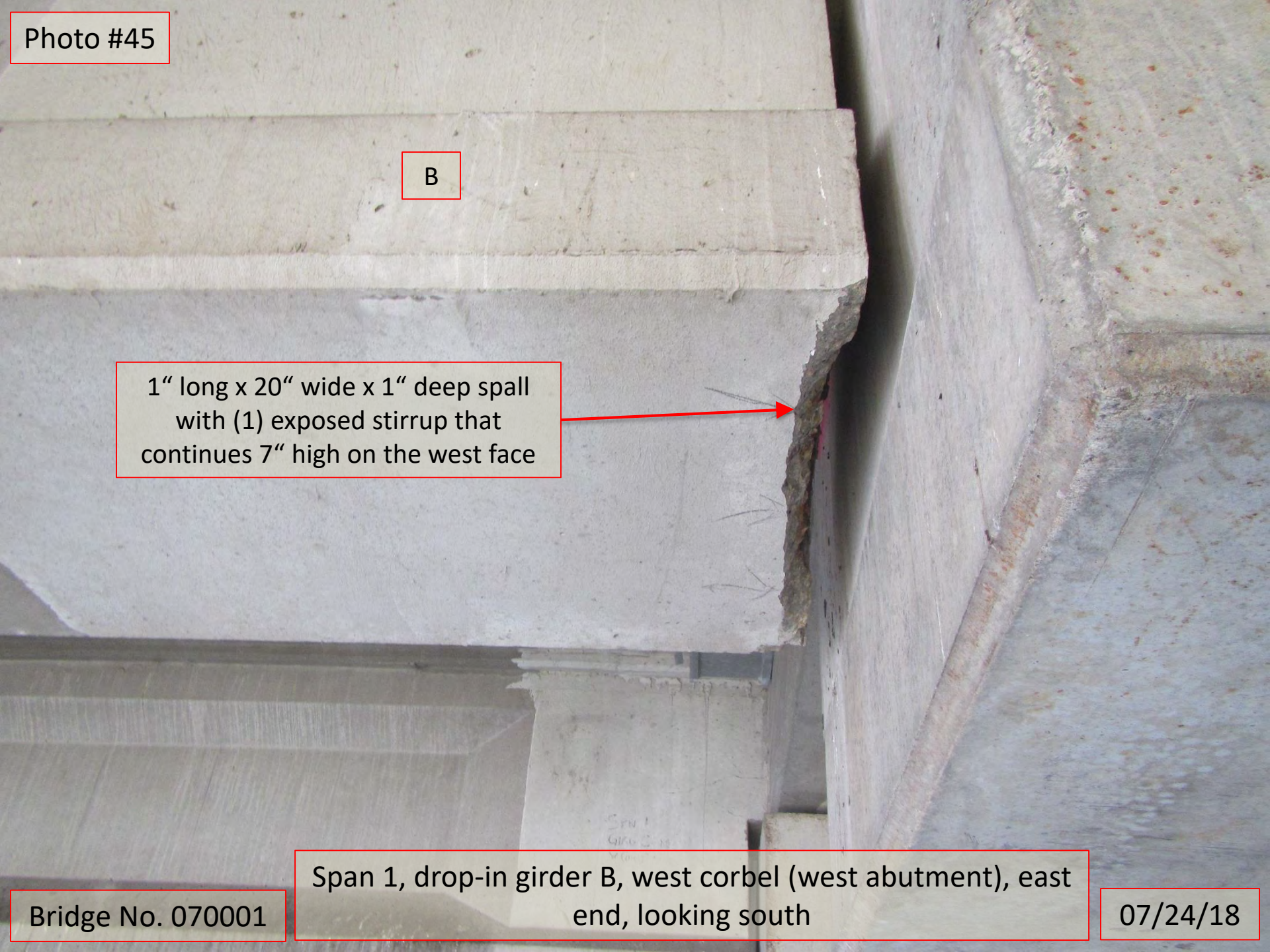

Photo #42
Up to full width transverse hairline crack with efflorescence
Concrete patch
3' long x 2' high x up 1" deep area of honeycomb
32” long x 20” high hollow area with transverse cracks
Up to full height vertical / diagonal hairline crack
Bridge No. 070001
Span 5, Cell 1B, looking east
07/24/18


Photo #43
A
B
C
D
E
F
Bridge No. 070001
Span 1, typical underside of deck, looking east
07/24/18


Photo #44
18” horizontal hairline crack
C
4” shear hairline crack
Bearing ±1/2”
in contraction
Bridge No. 070001
Span 1, drop-in girder C, west corbel (west abutment),
north elevation, looking southwest
07/24/18


Photo #45
B
1“ long x 20“ wide x 1“ deep spall with (1) exposed stirrup that continues 7“ high on the west face
Bridge No. 070001
Span 1, drop-in girder B, west corbel (west abutment), east end, looking south
07/24/18

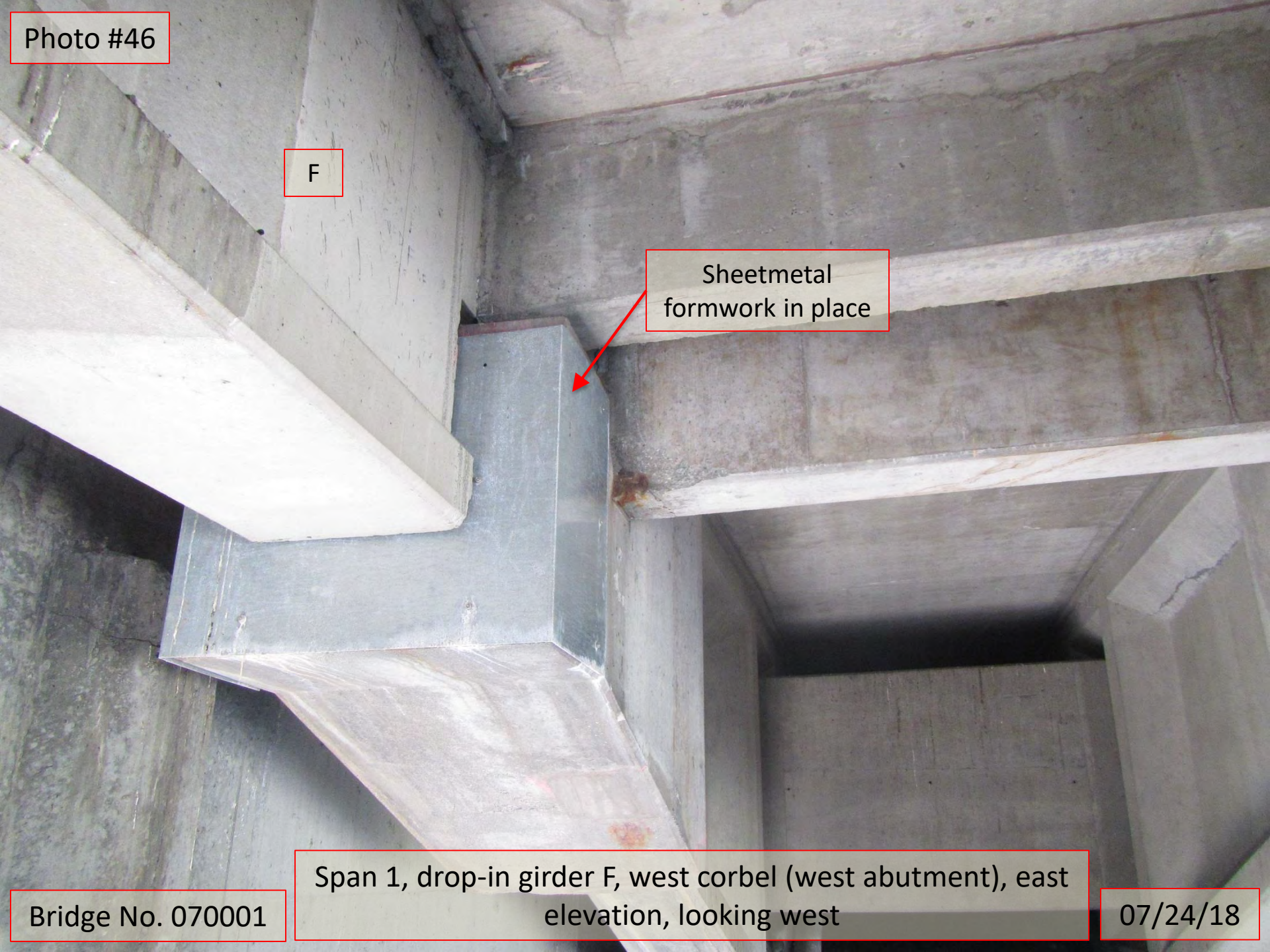
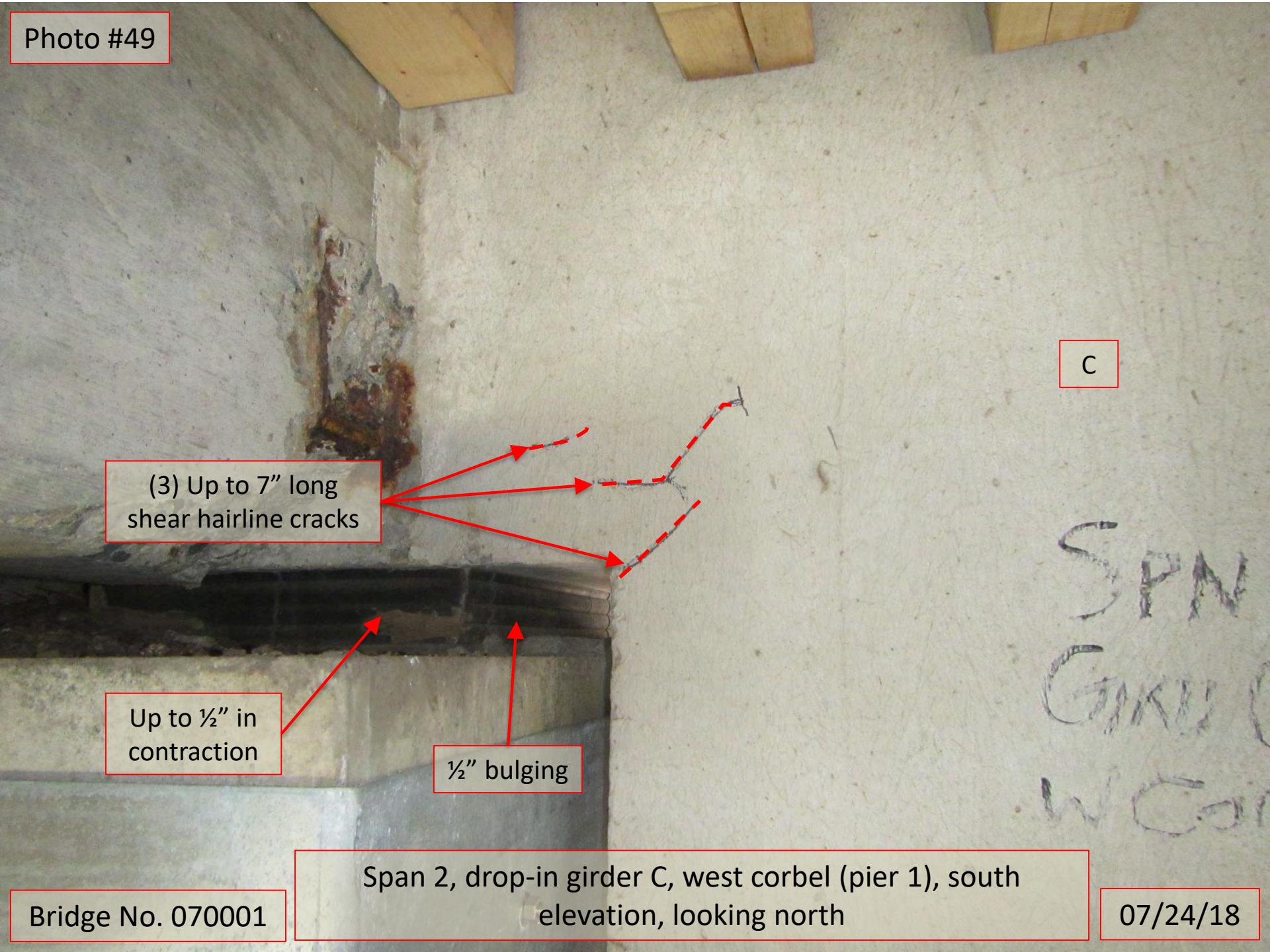
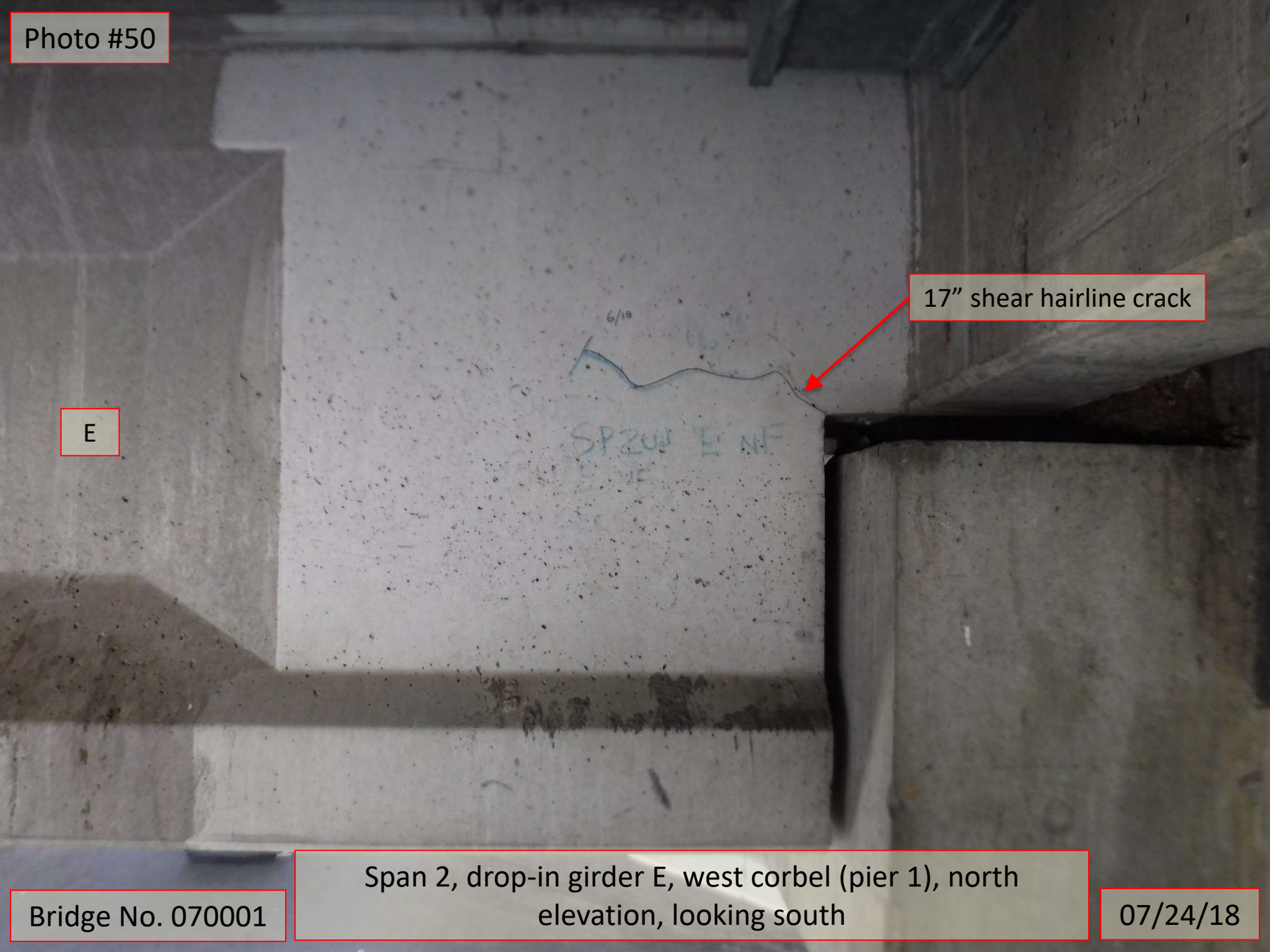
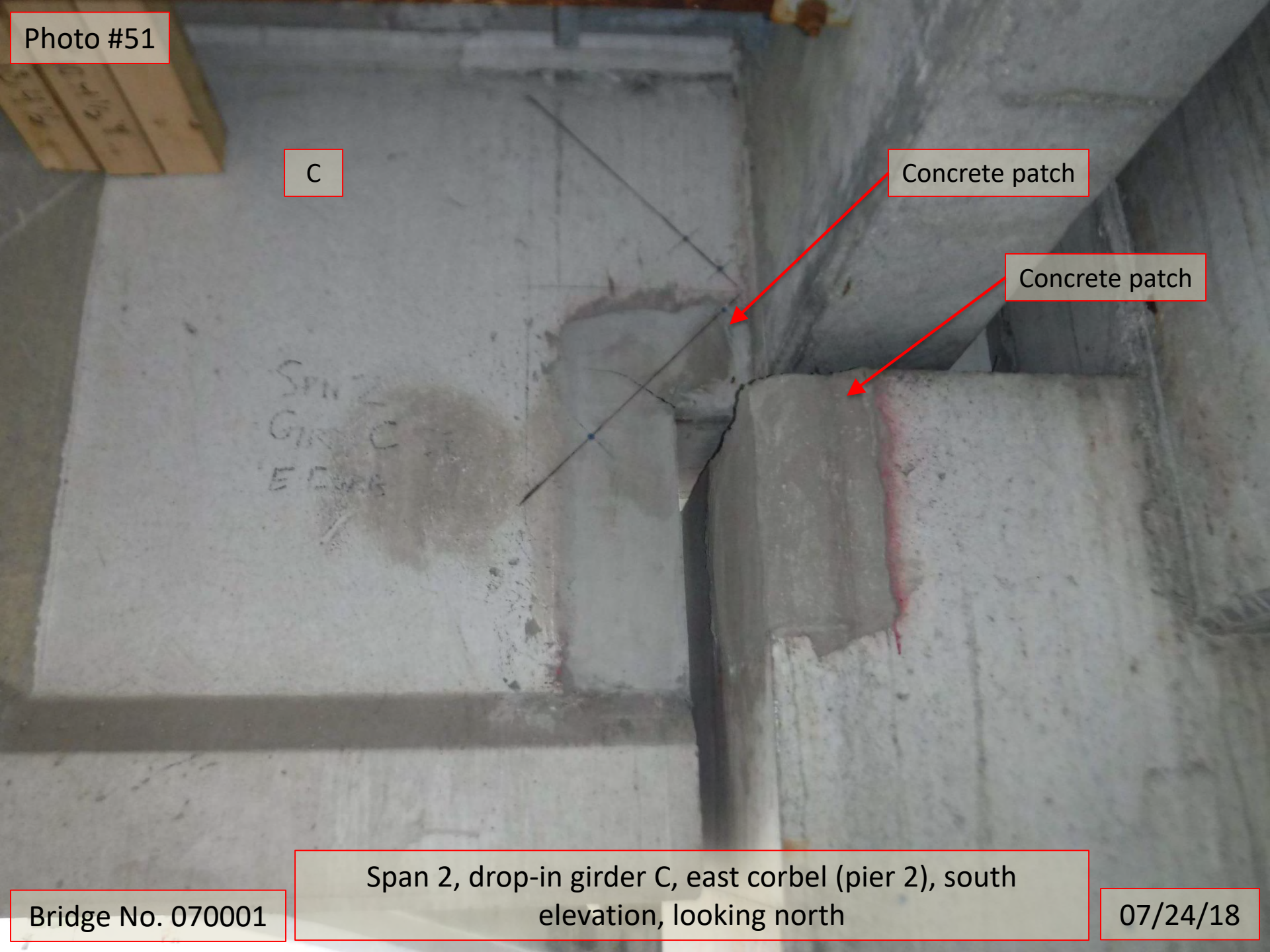

Photo #46
F
Sheetmetal formwork in place
Bridge No. 070001
Span 1, drop-in girder F, west corbel (west abutment), east elevation, looking west
07/24/18


Photo #47
Timber formwork in place
E
A
Bridge No. 070001
Span 1, east half, looking north
07/24/18


Photo #48
A
B
C
D
E
F
Bridge No. 070001
Span 2, typical underside of deck, looking east
07/24/18


Photo #49
C
(3) Up to 7” long shear hairline cracks
Up to ½” in contraction
½” bulging
Span 2, drop-in girder C, west corbel (pier 1), south elevation, looking north
Bridge No. 070001
07/24/18


Photo #50
17” shear hairline crack
E
Bridge No. 070001
Span 2, drop-in girder E, west corbel (pier 1), north elevation, looking south
07/24/18


Photo #51
C
Concrete patch
Concrete patch
Bridge No. 070001
Span 2, drop-in girder C, east corbel (pier 2), south elevation, looking north
07/24/18

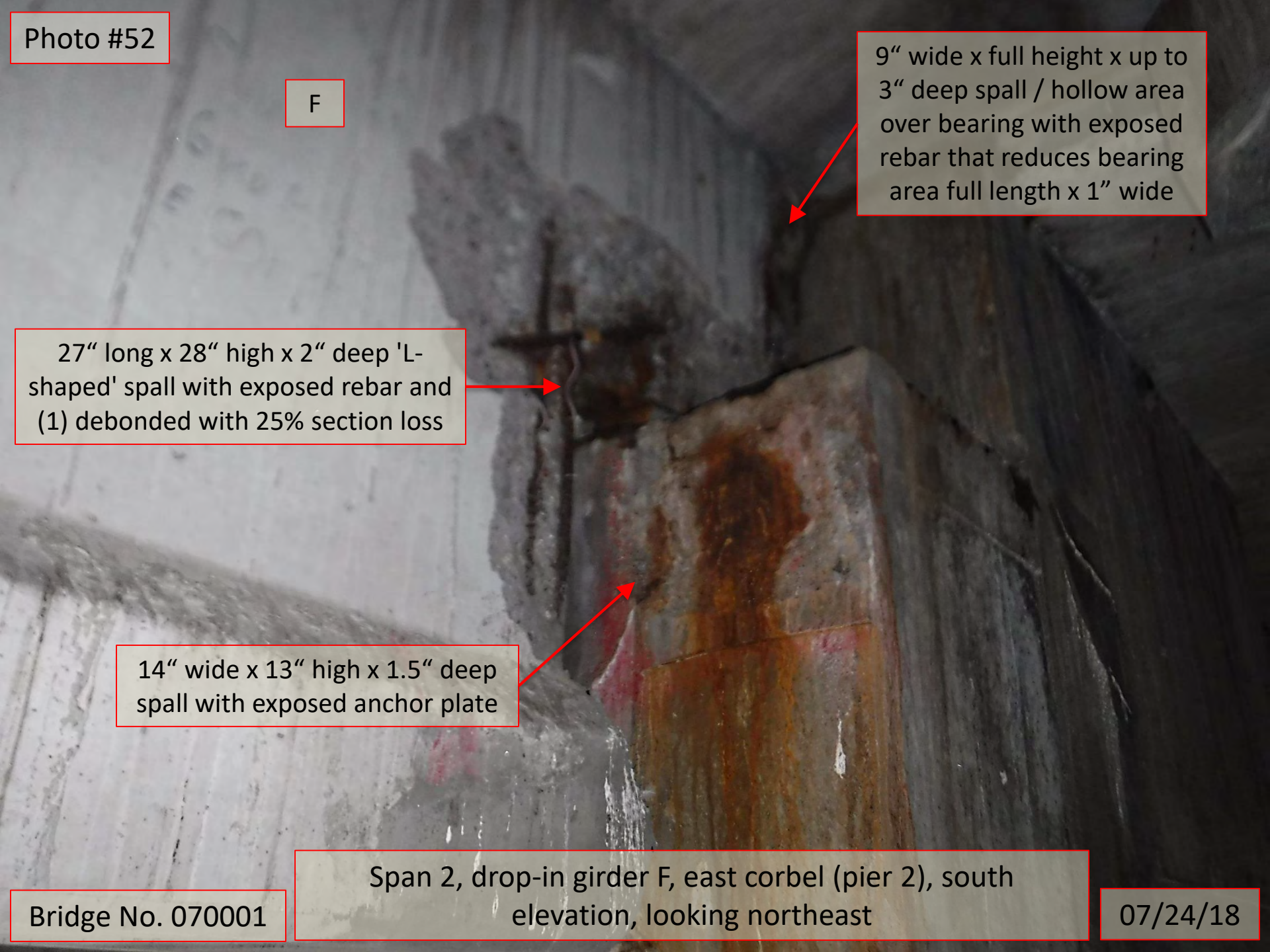

Photo #52
F
9“ wide x full height x up to 3“ deep spall / hollow area over bearing with exposed rebar that reduces bearing area full length x 1” wide
27“ long x 28“ high x 2“ deep 'L-shaped' spall with exposed rebar and (1) debonded with 25% section loss
14“ wide x 13“ high x 1.5“ deep spall with exposed anchor plate
Span 2, drop-in girder F, east corbel (pier 2), south elevation, looking northeast
Bridge No. 070001
07/24/18


Photo #53
A
B
C
D
E
F
Bridge No. 070001
Span 3, typical underside of deck, looking east
07/24/18


Photo #54
17” shear hairline crack
E
7” shear hairline crack
Span 3, drop-in girder E, west corbel (pier 2), north elevation, looking south
Bridge No. 070001
07/24/18

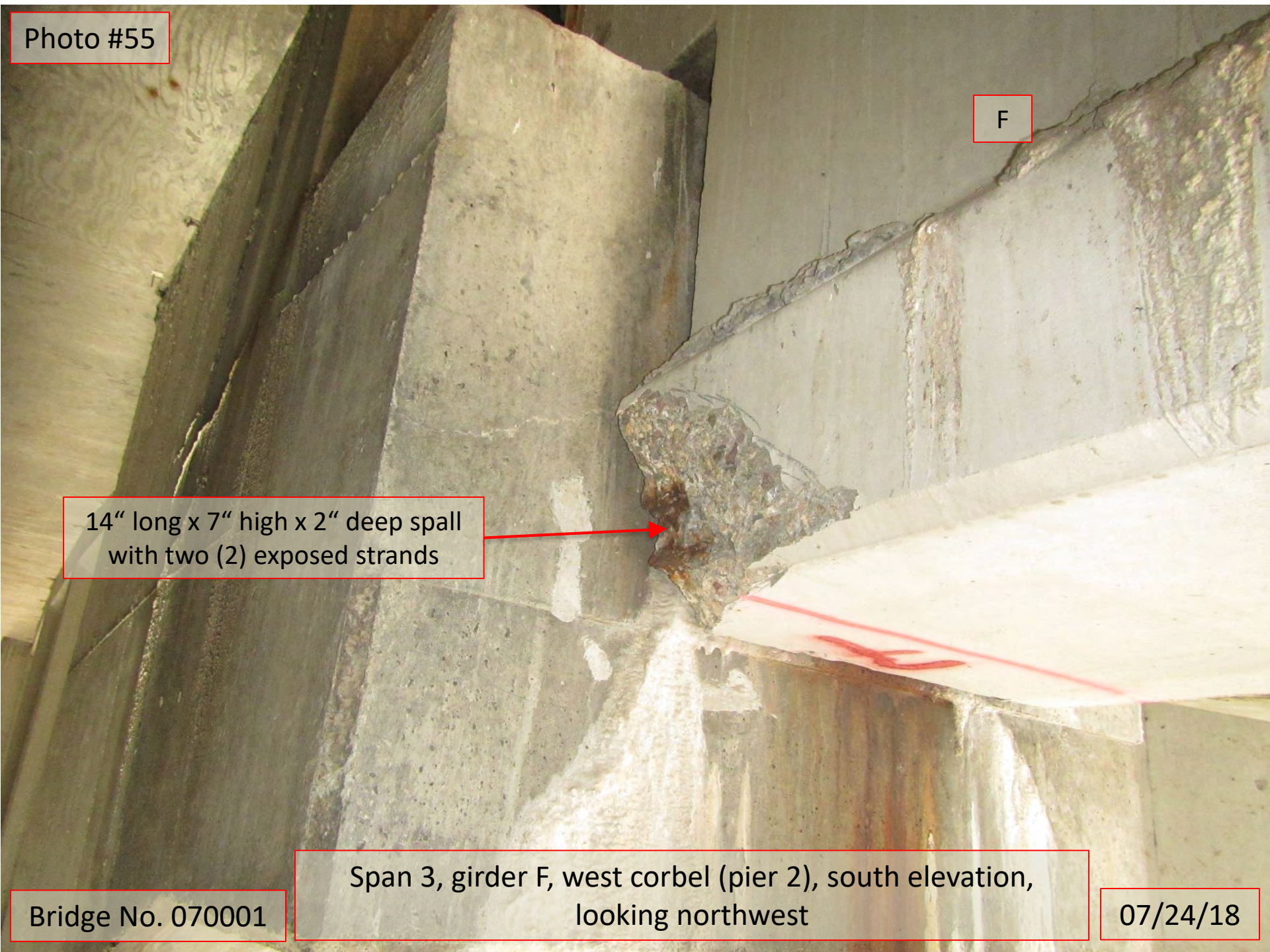

Photo #55
F
14“ long x 7“ high x 2“ deep spall with two (2) exposed strands
Span 3, girder F, west corbel (pier 2), south elevation, looking northwest
Bridge No. 070001
07/24/18


Photo #56
F
5“ long x full height x 3“ deep spall over bearing that continues 5“ long onto the east face
Span 3, drop-in girder F, west corbel (pier 2), south elevation, looking northwest
Bridge No. 070001
07/24/18

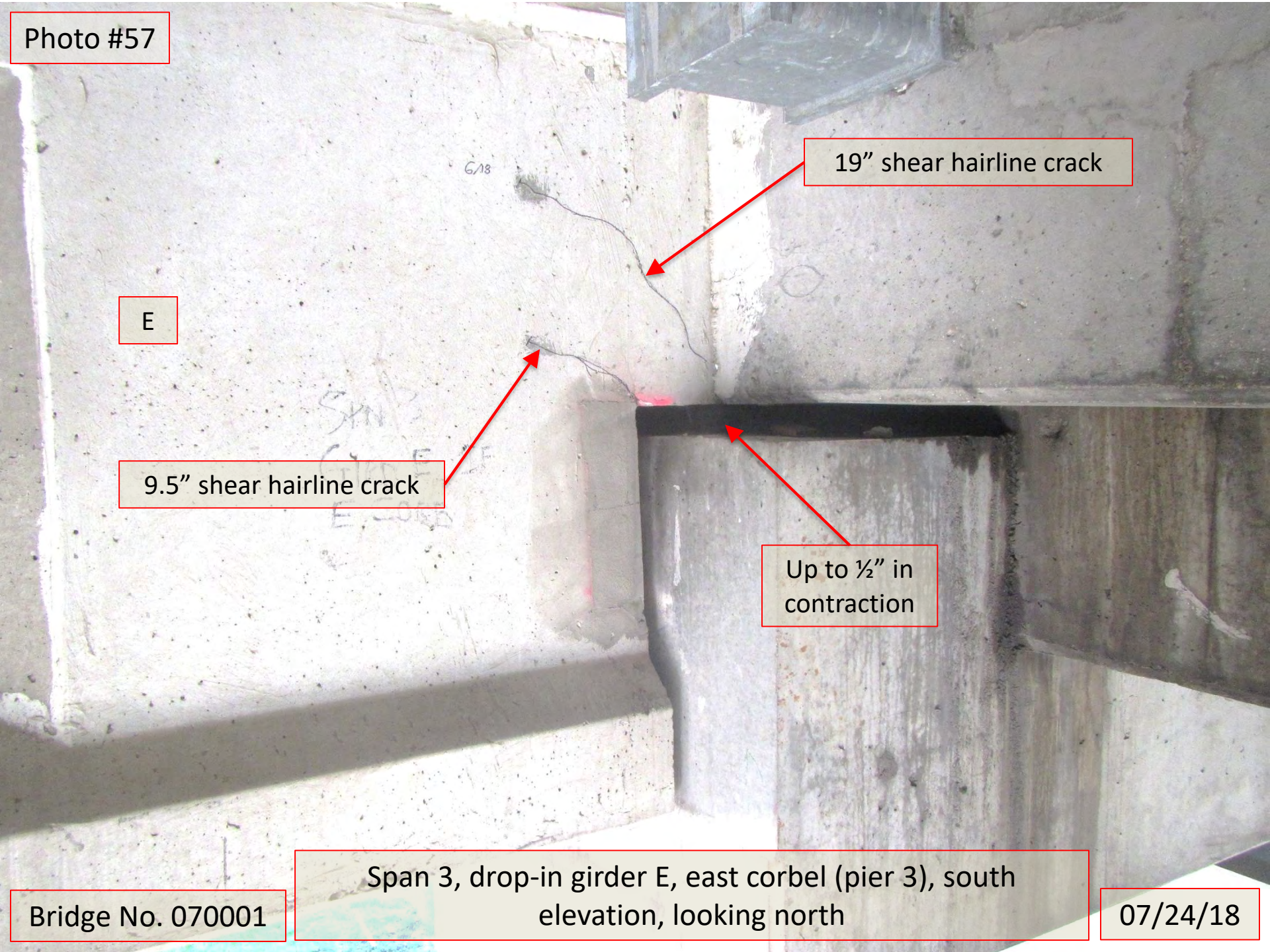
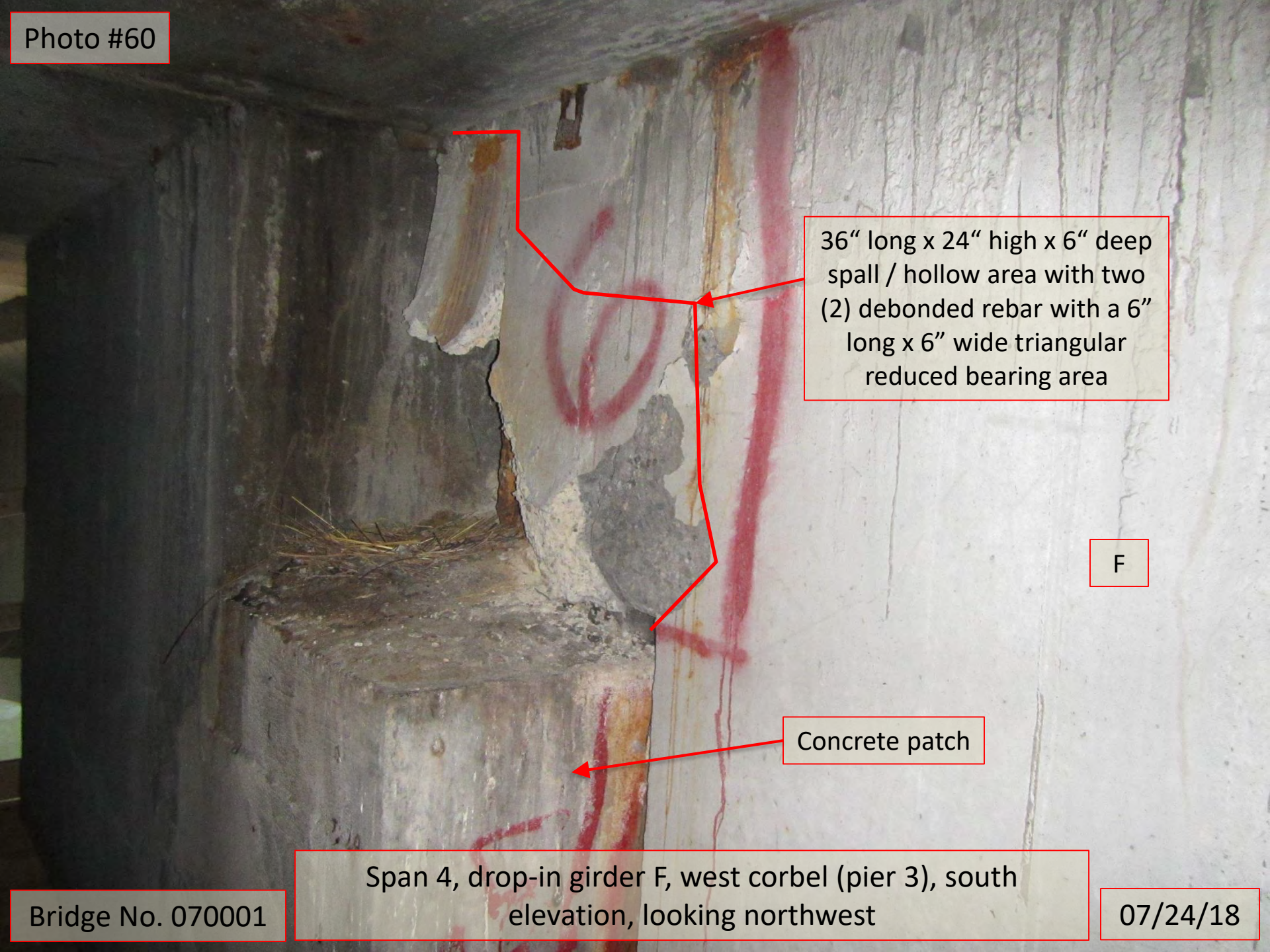
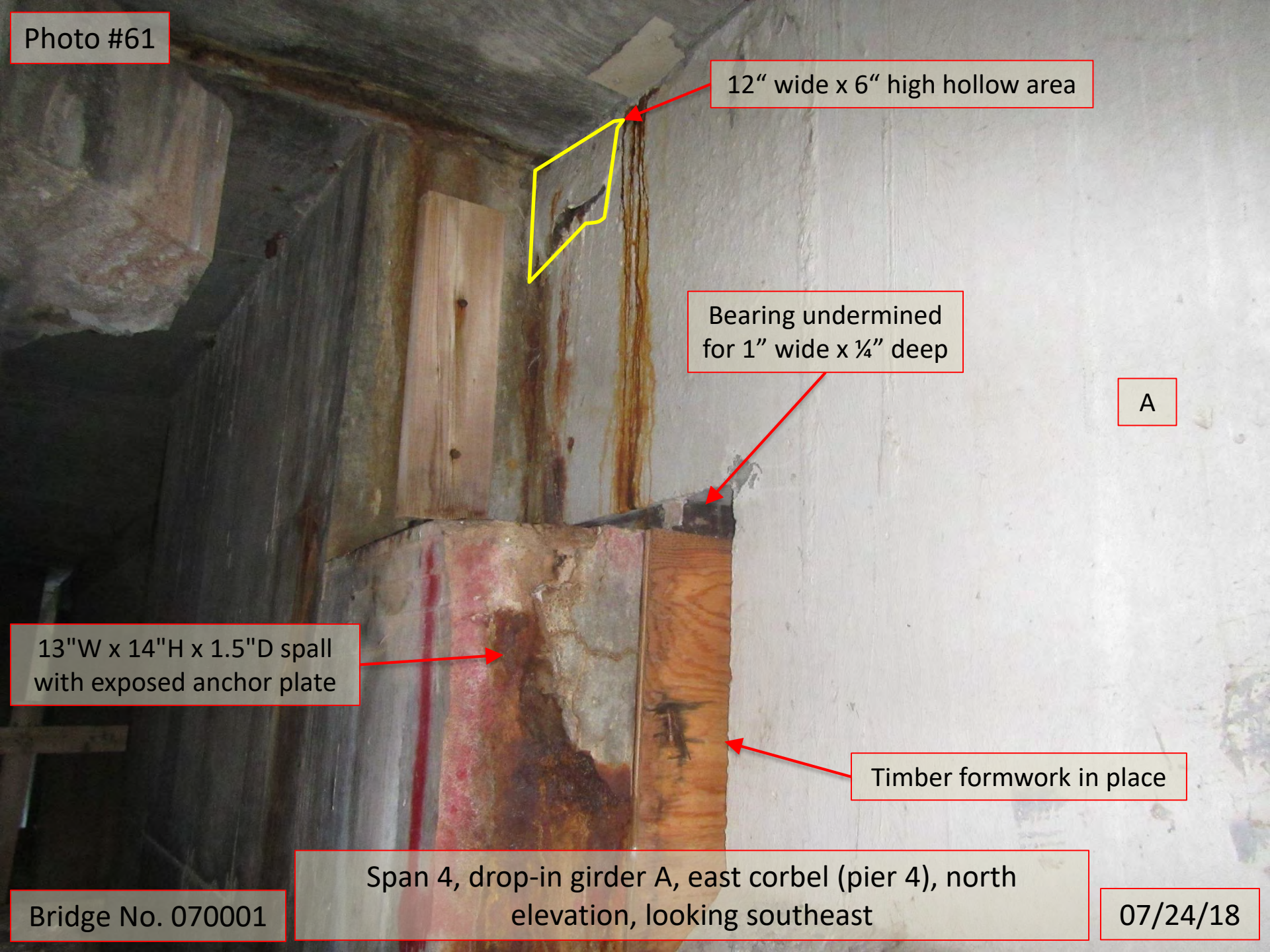

Photo #57
19” shear hairline crack
E
9.5” shear hairline crack
Up to ½” in contraction
Bridge No. 070001
Span 3, drop-in girder E, east corbel (pier 3), south elevation, looking north
07/24/18


Photo #58
F
Concrete patch
Up to 20“ long x 36“ high x 3“ deep
'L-shaped' spall with exposed rebar
Concrete patch
Bridge No. 070001
Span 3, drop-in girder F, east corbel (pier 3), south elevation, looking northeast
07/24/18


Photo #59
A
B
C
D
E
F
Bridge No. 070001
Span 4, typical underside of deck, looking east
07/24/18


Photo #60
36“ long x 24“ high x 6“ deep spall / hollow area with two (2) debonded rebar with a 6” long x 6” wide triangular reduced bearing area
F
Concrete patch
Span 4, drop-in girder F, west corbel (pier 3), south elevation, looking northwest
Bridge No. 070001
07/24/18


Photo #61
12“ wide x 6“ high hollow area
Bearing undermined for 1” wide x ¼” deep
A
13"W x 14"H x 1.5"D spall with exposed anchor plate
Timber formwork in place
Span 4, drop-in girder A, east corbel (pier 4), north elevation, looking southeast
Bridge No. 070001
07/24/18

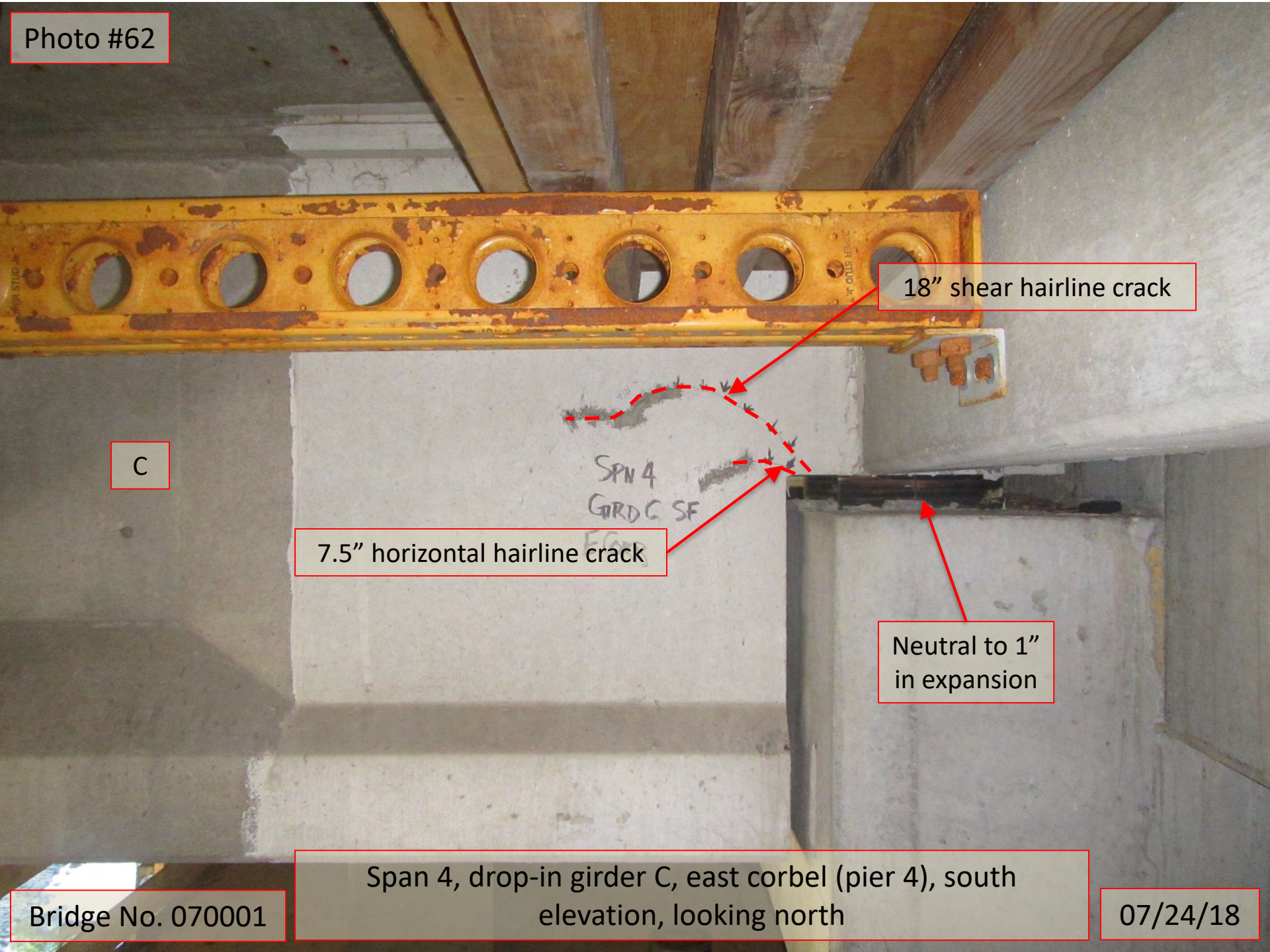
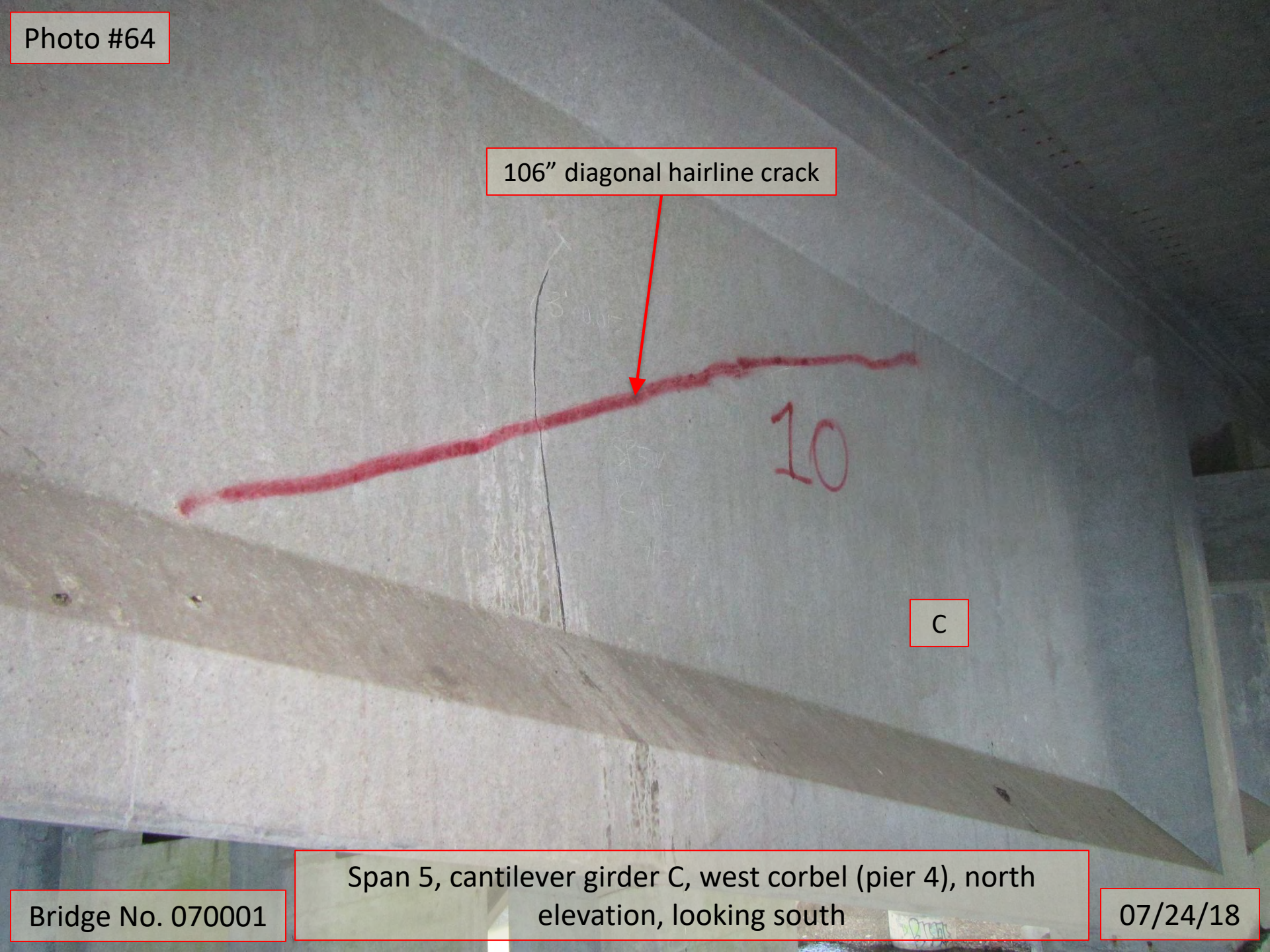
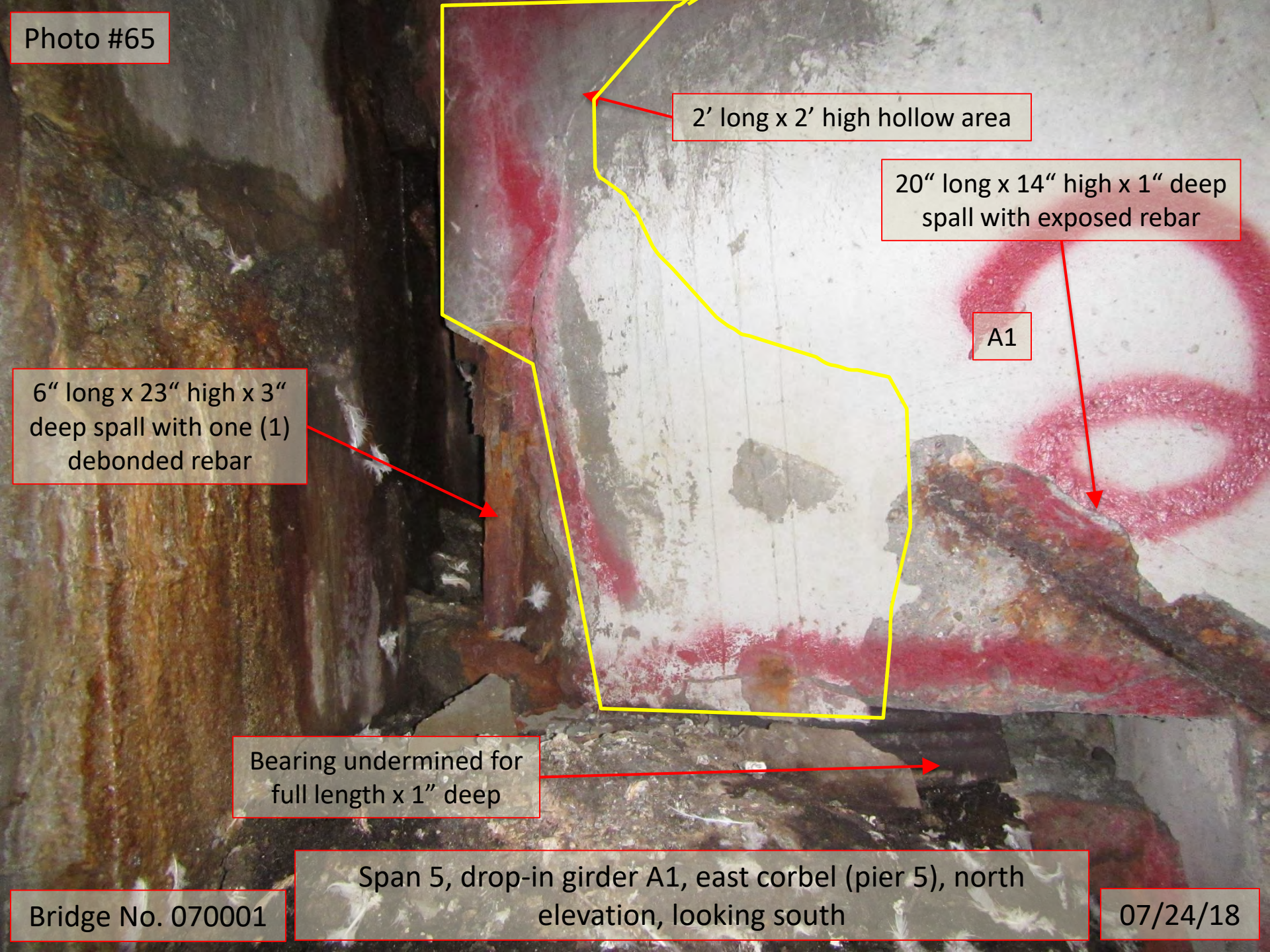
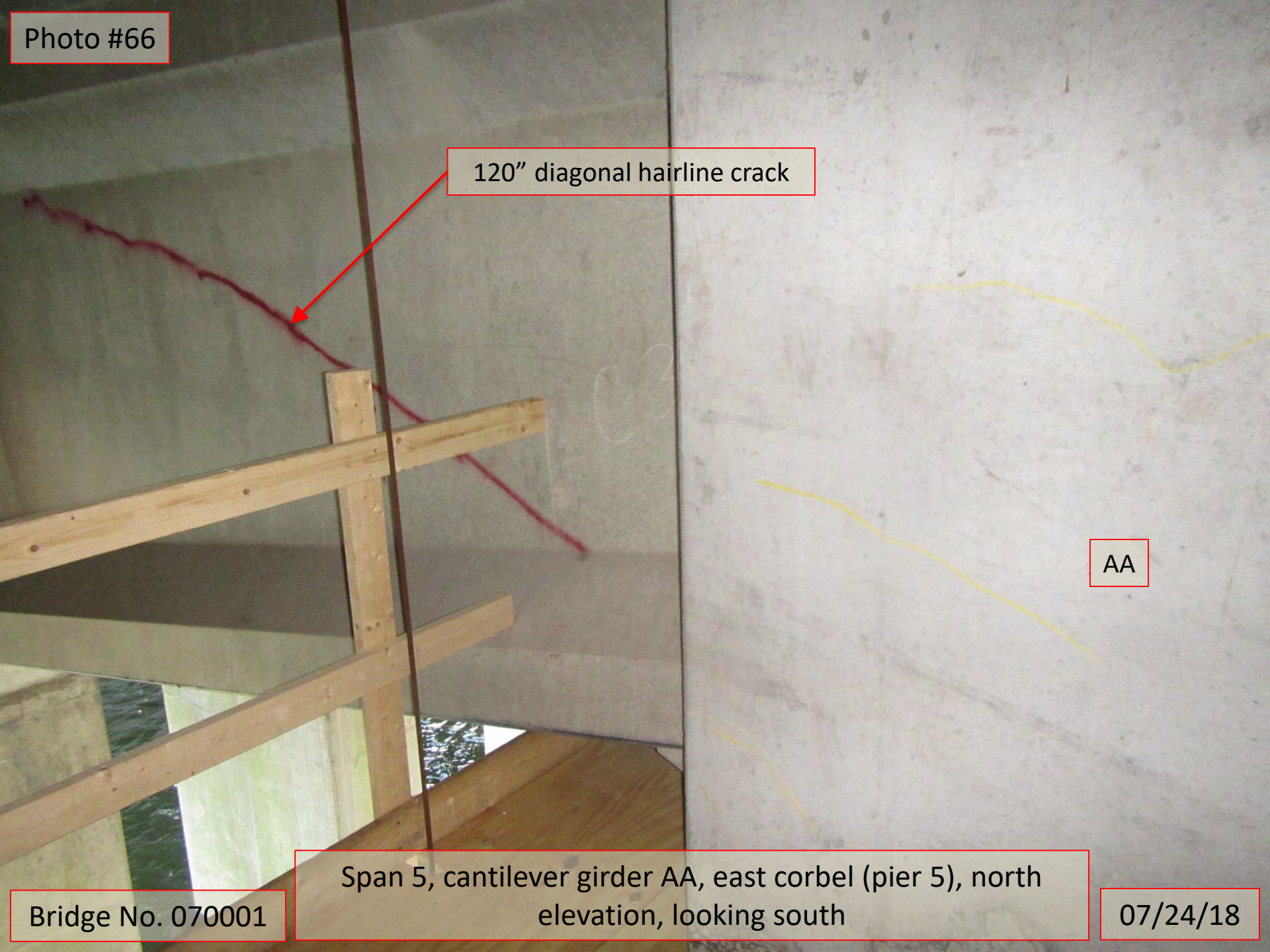

Photo #62
18” shear hairline crack
C
SPN 4
GIRD C SF
7.5” horizontal hairline crack
Neutral to 1”
in expansion
Bridge No. 070001
Span 4, drop-in girder C, east corbel (pier 4), south elevation, looking north
07/24/18


Photo #63
A1
AA
A
B
C
D
E
F
Bridge No. 070001
Span 5, typical underside of deck, looking east
07/24/18


Photo #64
106” diagonal hairline crack
10
C
Span 5, cantilever girder C, west corbel (pier 4), north elevation, looking south
Bridge No. 070001
07/24/18


Photo #65
2’ long x 2’ high hollow area
20“ long x 14“ high x 1“ deep spall with exposed rebar
A1
6“ long x 23“ high x 3“ deep spall with one (1) debonded rebar
Bearing undermined for full length x 1” deep
Span 5, drop-in girder A1, east corbel (pier 5), north elevation, looking south
Bridge No. 070001
07/24/18


Photo #66
120” diagonal hairline crack
AA
Span 5, cantilever girder AA, east corbel (pier 5), north elevation, looking south
Bridge No. 070001
07/24/18

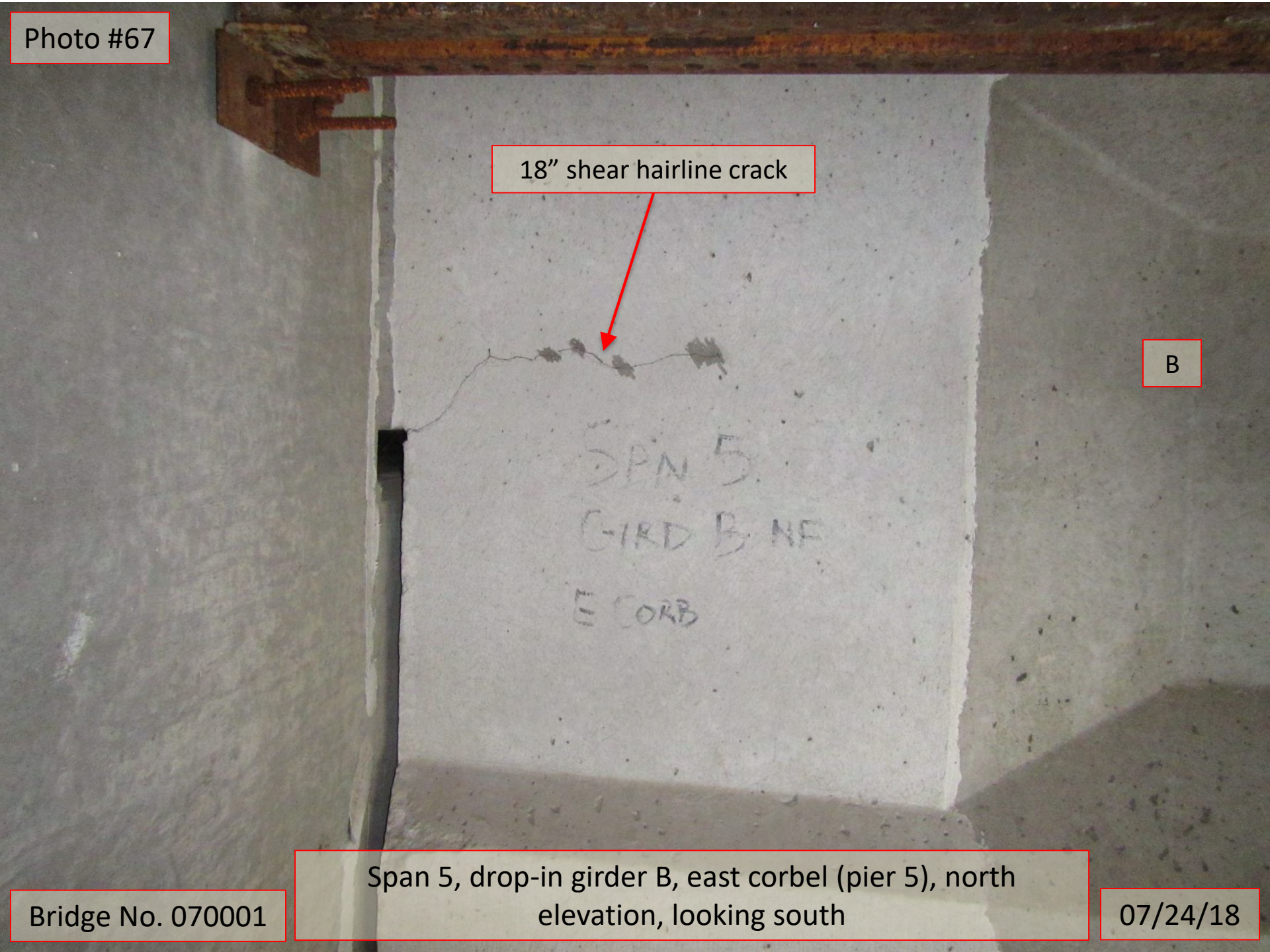
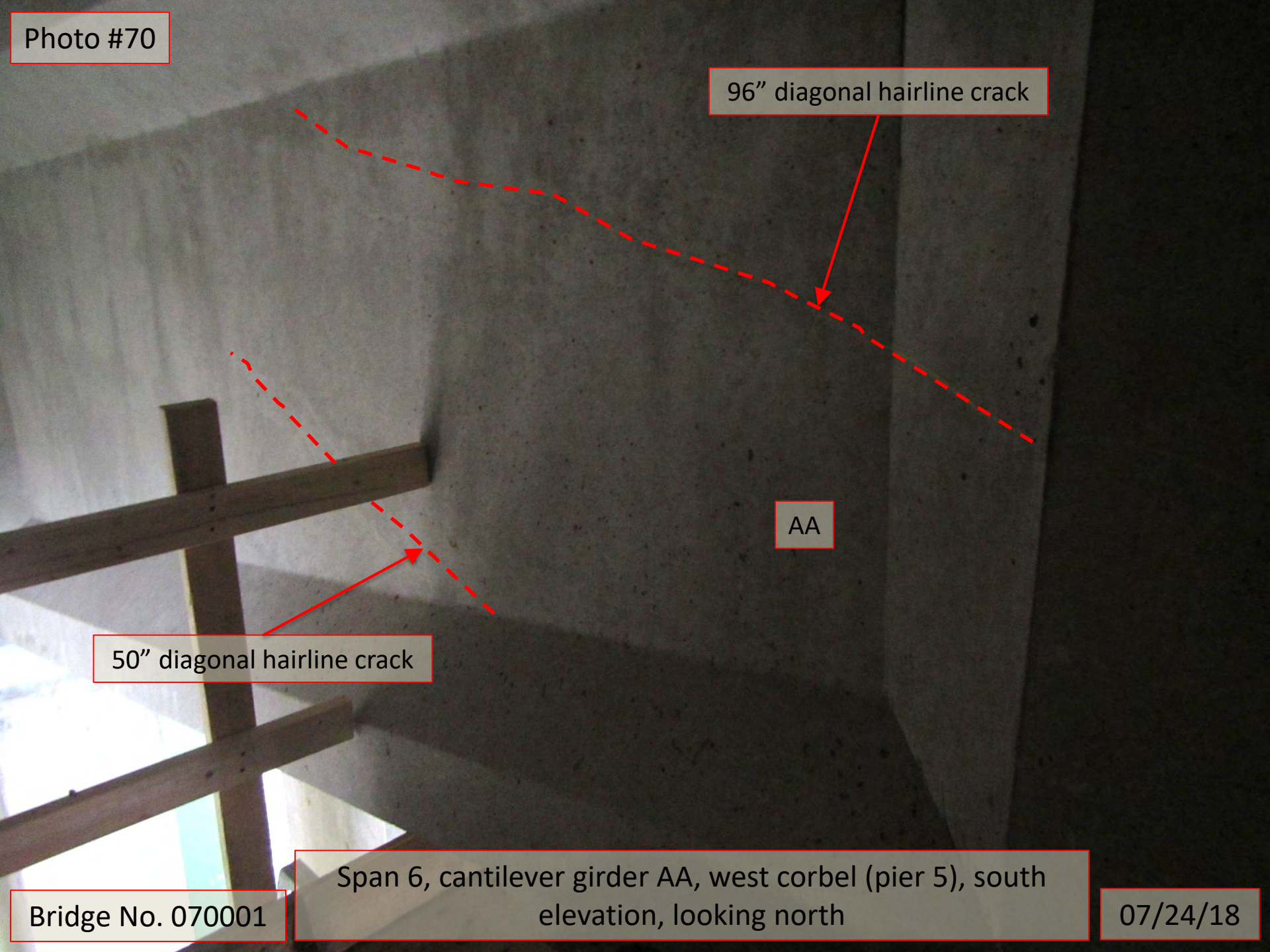
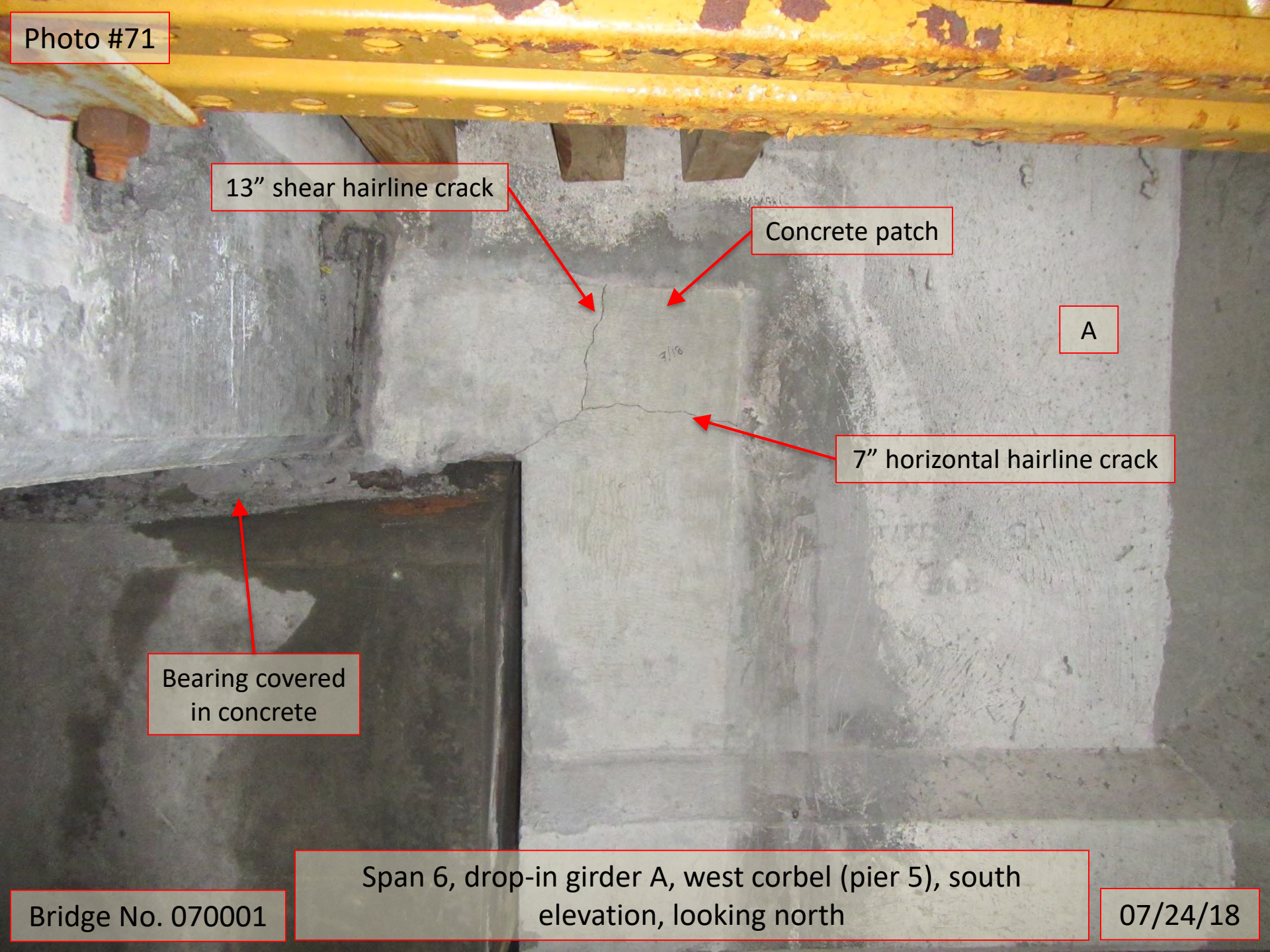
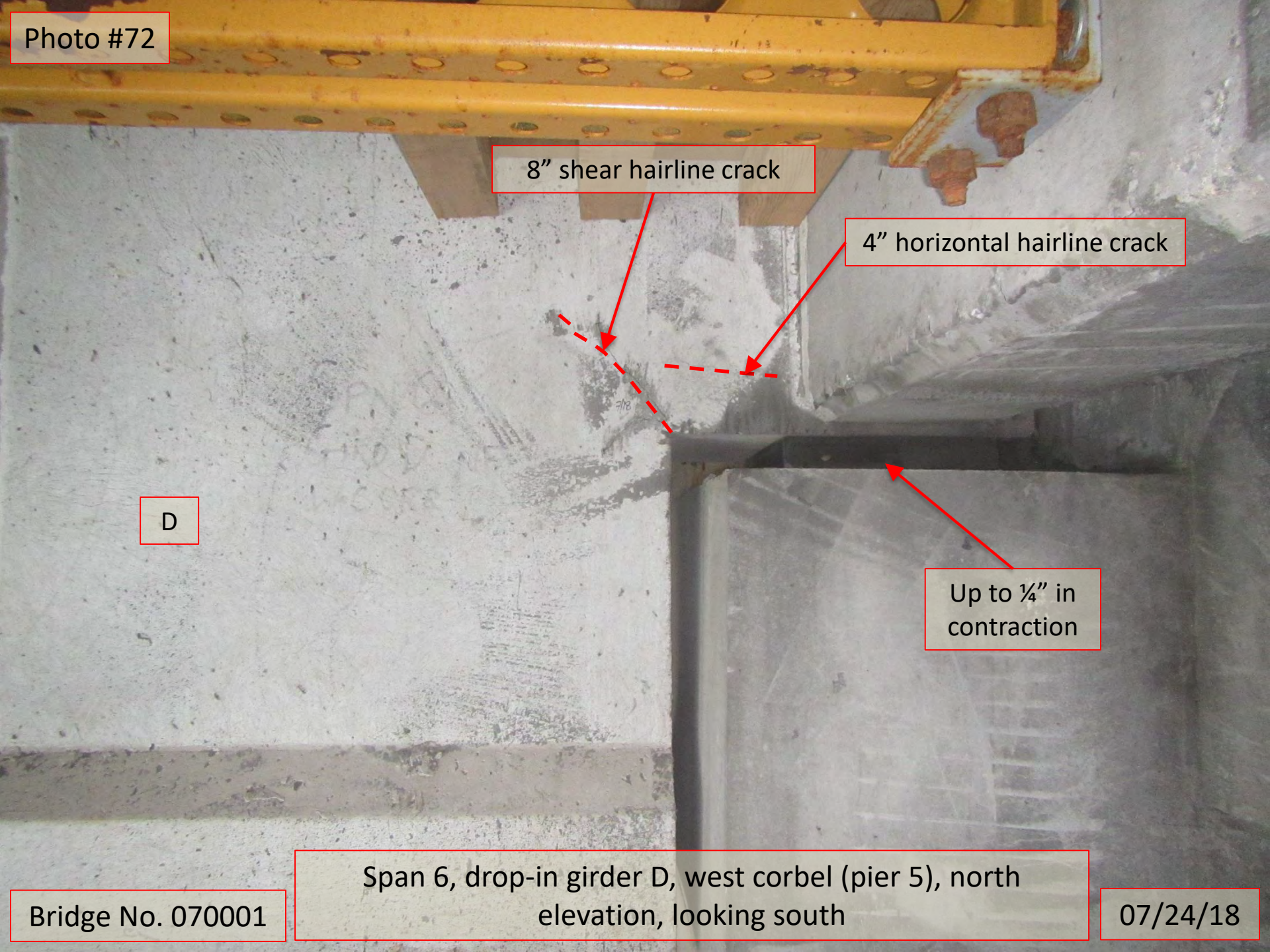

Photo #67
18” shear hairline crack
B
SPN 5
G-IRD B NF
E CORB
Bridge No. 070001
Span 5, drop-in girder B, east corbel (pier 5), north elevation, looking south
07/24/18


Photo #68
A
B
C
D
E
F
Bridge No. 070001
Span 6, typical underside of deck, looking southwest
07/24/18


Photo #69
AA
18” wide x 9“ high x 3“ deep spall with exposed post-tension strands and anchor plate that continues 18“ long onto the north face and 12“ long onto the south face
Bridge No. 070001
Span 6, cantilever girder AA, west corbel (pier 5), east elevation, looking west
07/24/18


Photo #70
96” diagonal hairline crack
AA
50” diagonal hairline crack
Span 6, cantilever girder AA, west corbel (pier 5), south elevation, looking north
Bridge No. 070001
07/24/18


Photo #71
13” shear hairline crack
Concrete patch
A
7” horizontal hairline crack
Bearing covered in concrete
Span 6, drop-in girder A, west corbel (pier 5), south elevation, looking north
Bridge No. 070001
07/24/18


Photo #72
8” shear hairline crack
4” horizontal hairline crack
D
Up to ¼” in contraction
Span 6, drop-in girder D, west corbel (pier 5), north elevation, looking south
Bridge No. 070001
07/24/18

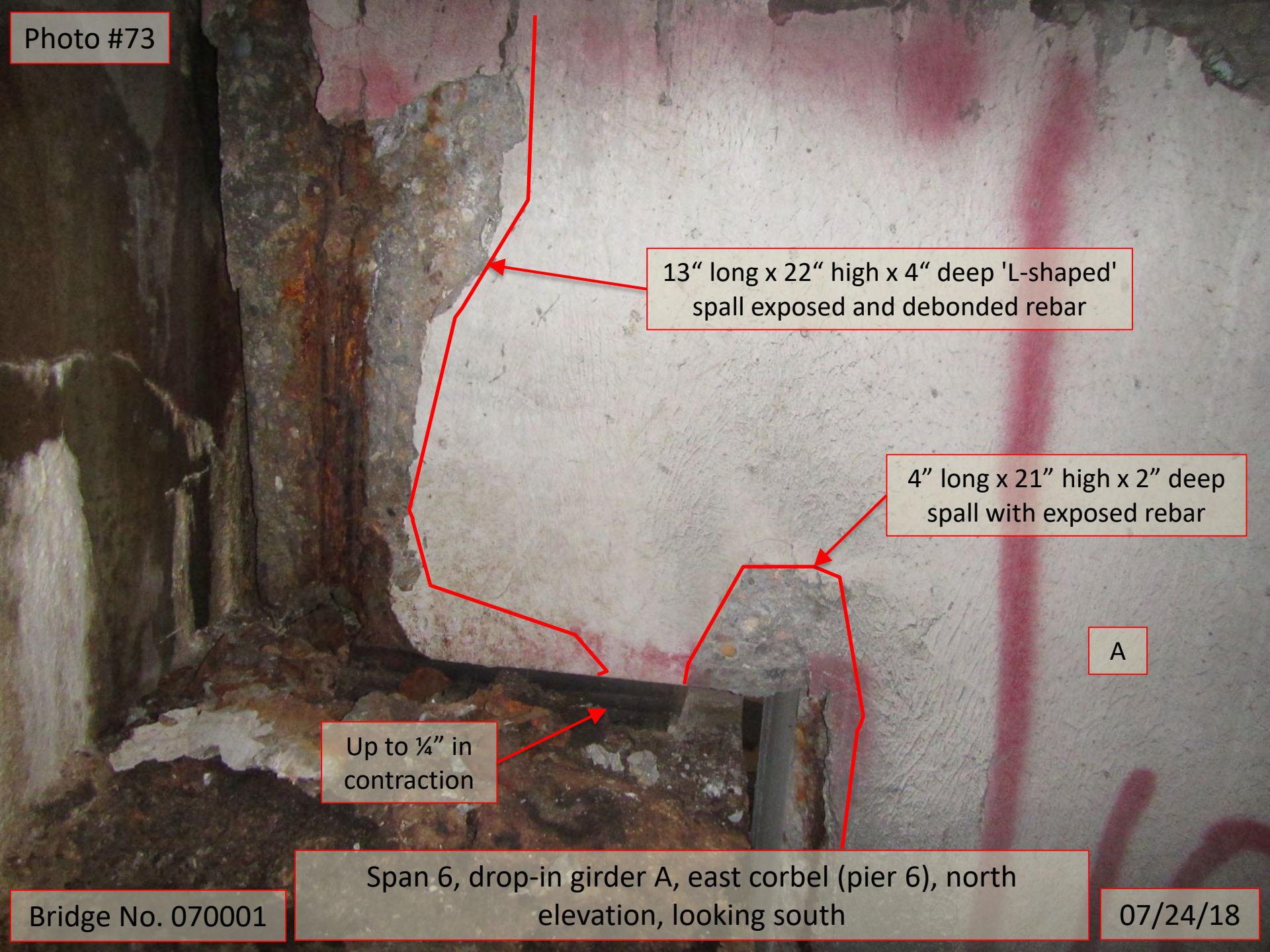
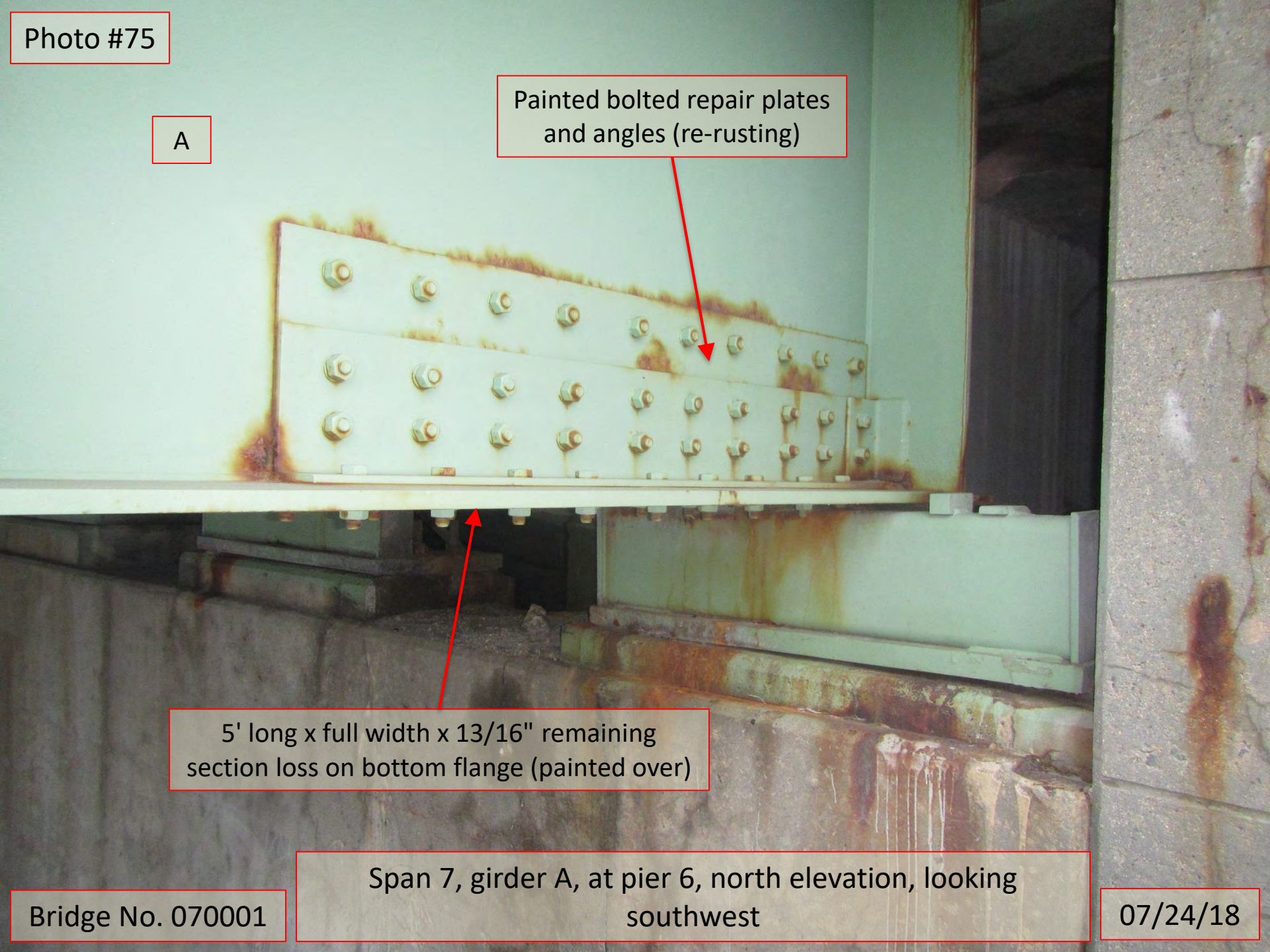
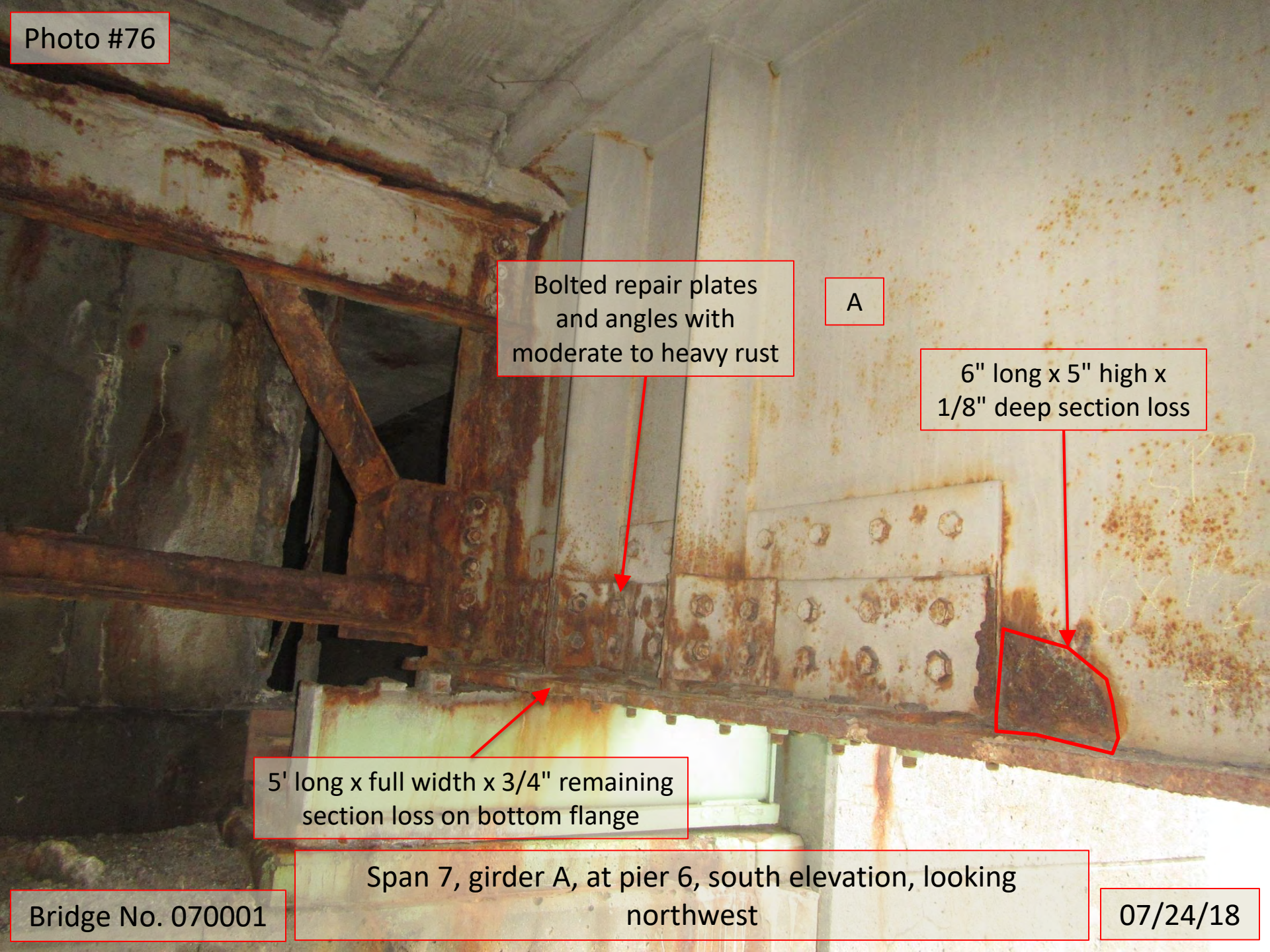
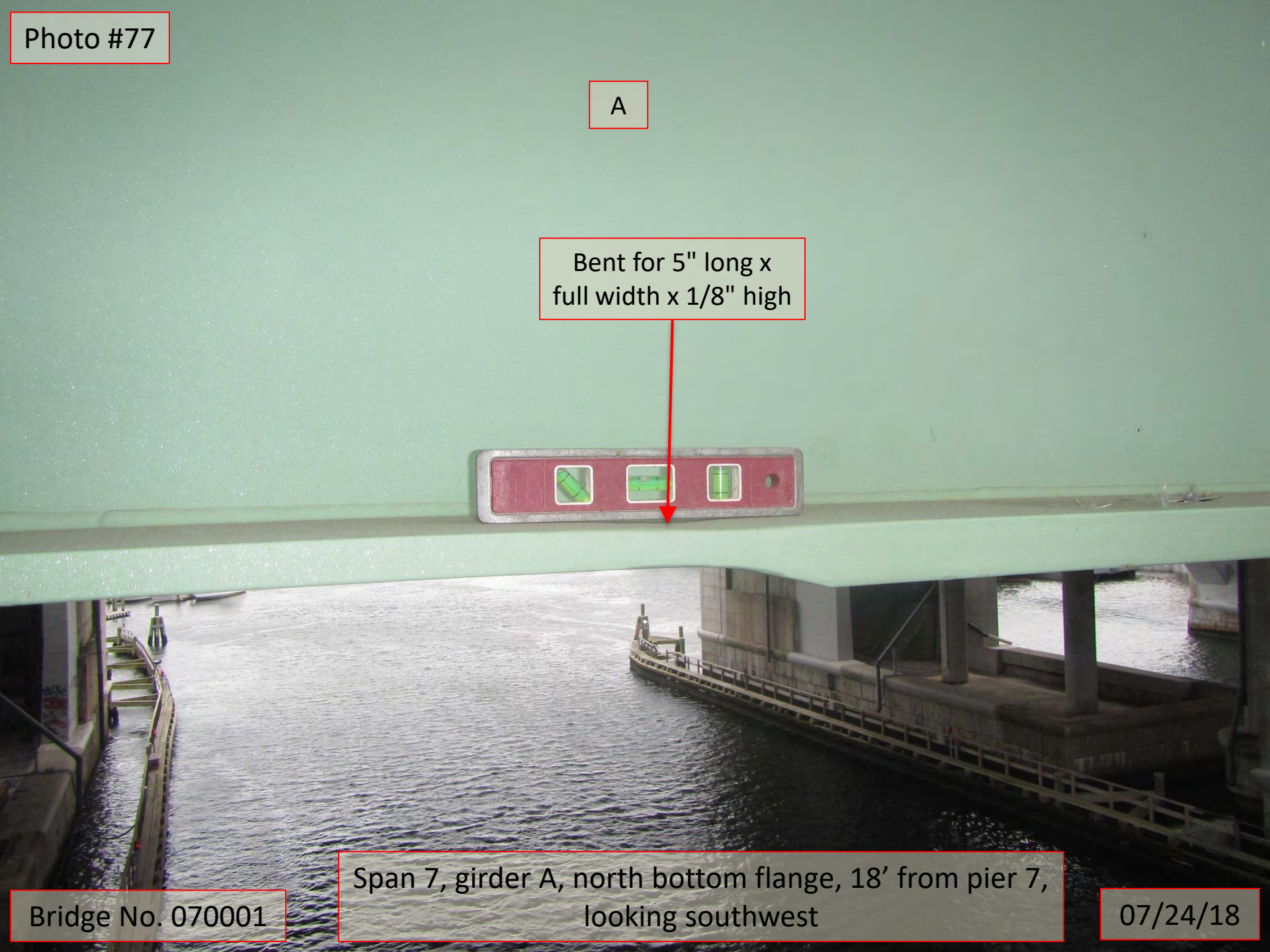
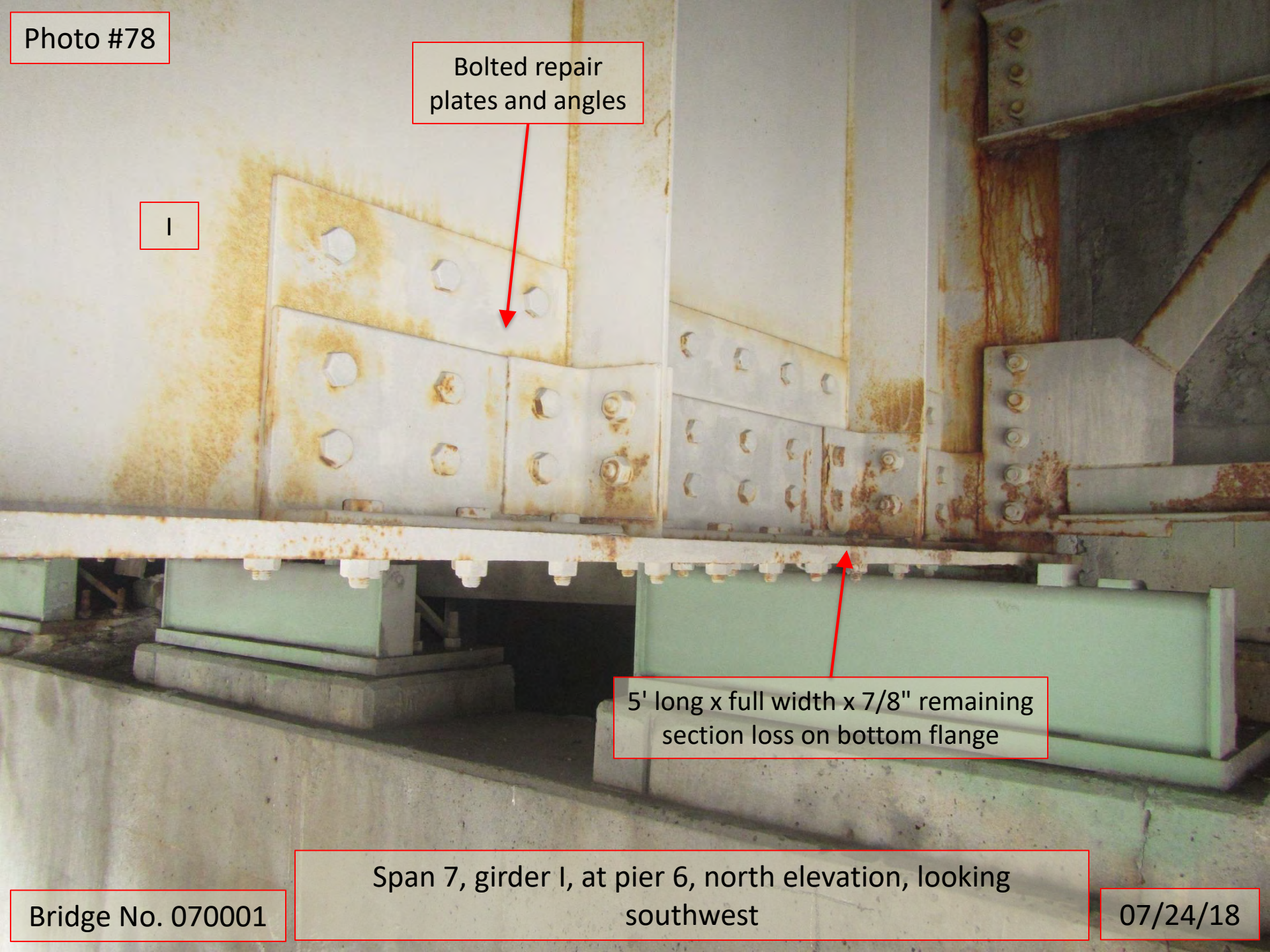

Photo #73
13“ long x 22“ high x 4“ deep 'L-shaped' spall exposed and debonded rebar
4” long x 21” high x 2” deep spall with exposed rebar
A
Up to ¼” in contraction
Span 6, drop-in girder A, east corbel (pier 6), north elevation, looking south
Bridge No. 070001
07/24/18

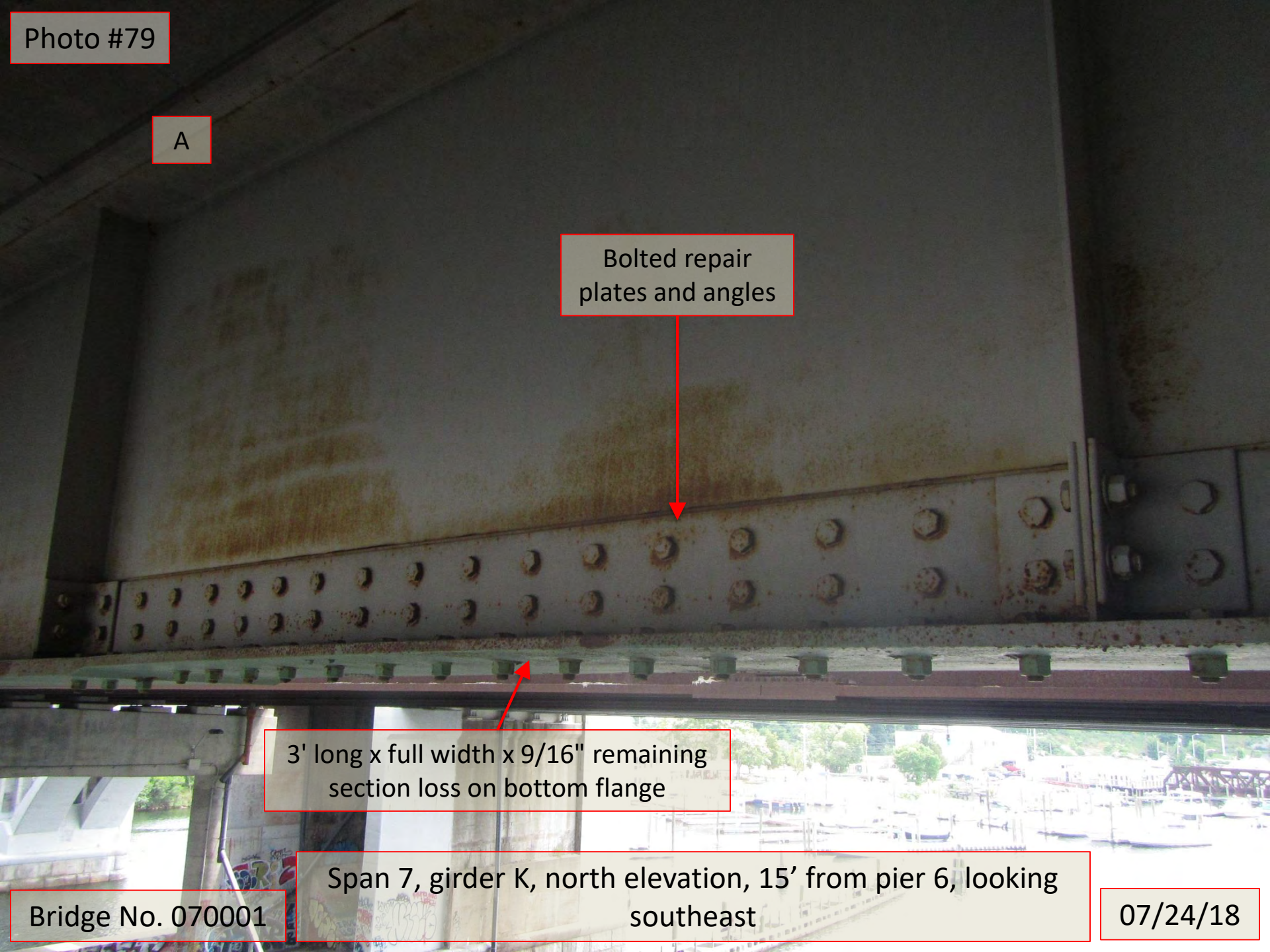

Photo #74
A
B
C
D
E
F
G
H
I
J
K
Bridge No. 070001
Span 7, typical underside of deck, looking northeast
07/24/18


Photo #75
A
Painted bolted repair plates and angles (re-rusting)
5' long x full width x 13/16" remaining section loss on bottom flange (painted over)
Bridge No. 070001
Span 7, girder A, at pier 6, north elevation, looking southwest
07/24/18


Photo #76
Bolted repair plates and angles with moderate to heavy rust
A
6" long x 5" high x 1/8" deep section loss
5' long x full width x 3/4" remaining section loss on bottom flange
Span 7, girder A, at pier 6, south elevation, looking northwest
Bridge No. 070001
07/24/18


Photo #77
A
Bent for 5" long x
full width x 1/8" high
Bridge No. 070001
Span 7, girder A, north bottom flange, 18’ from pier 7,
looking southwest
07/24/18


Photo #78
Bolted repair plates and angles
I
5' long x full width x 7/8" remaining section loss on bottom flange
Span 7, girder I, at pier 6, north elevation, looking southwest
Bridge No. 070001
07/24/18


Photo #79
A
Bolted repair plates and angles
3' long x full width x 9/16" remaining section loss on bottom flange
Span 7, girder K, north elevation, 15’ from pier 6, looking southeast
Bridge No. 070001
07/24/18

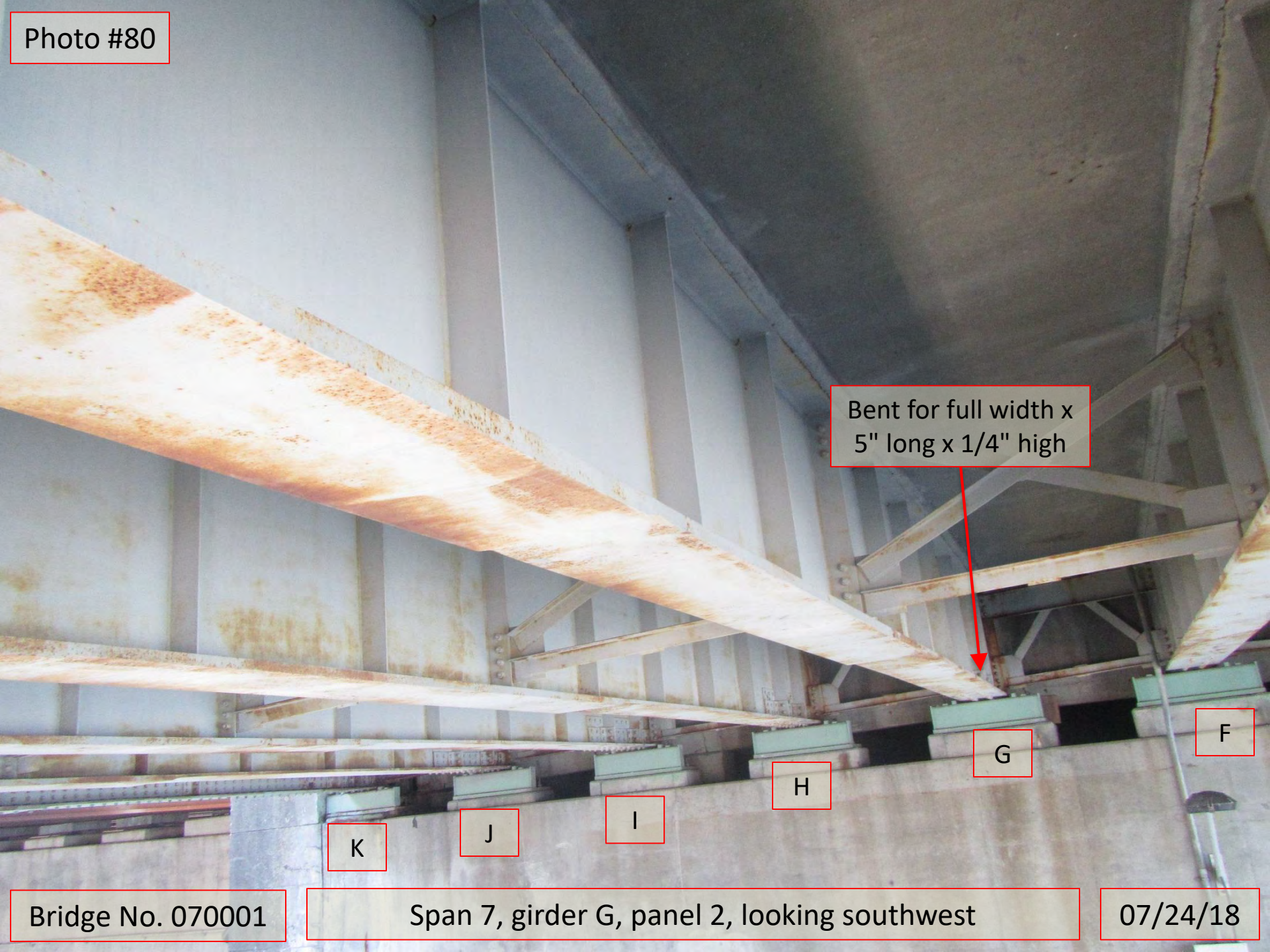

Photo #80
Bent for full width x 5" long x 1/4" high
F
G
H
I
J
K
Bridge No. 070001
Span 7, girder G, panel 2, looking southwest
07/24/18


Photo #81
Bolted repair plates and angles with moderate to heavy rust
B
8' long x full width x up to 3/4" remaining section loss on bottom flange
Span 7, girder B, at pier 7, north elevation, looking southeast
Bridge No. 070001
07/24/18

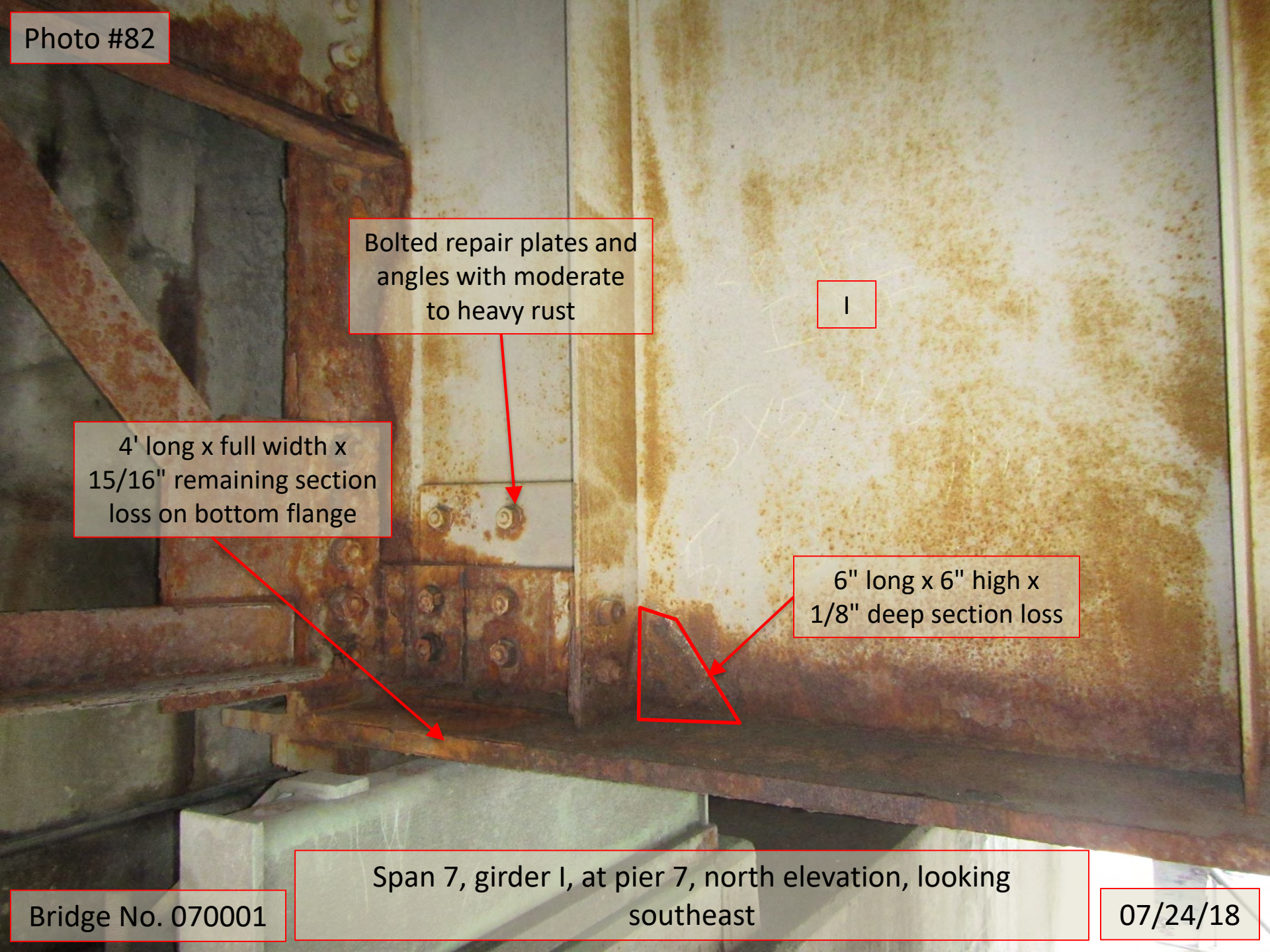
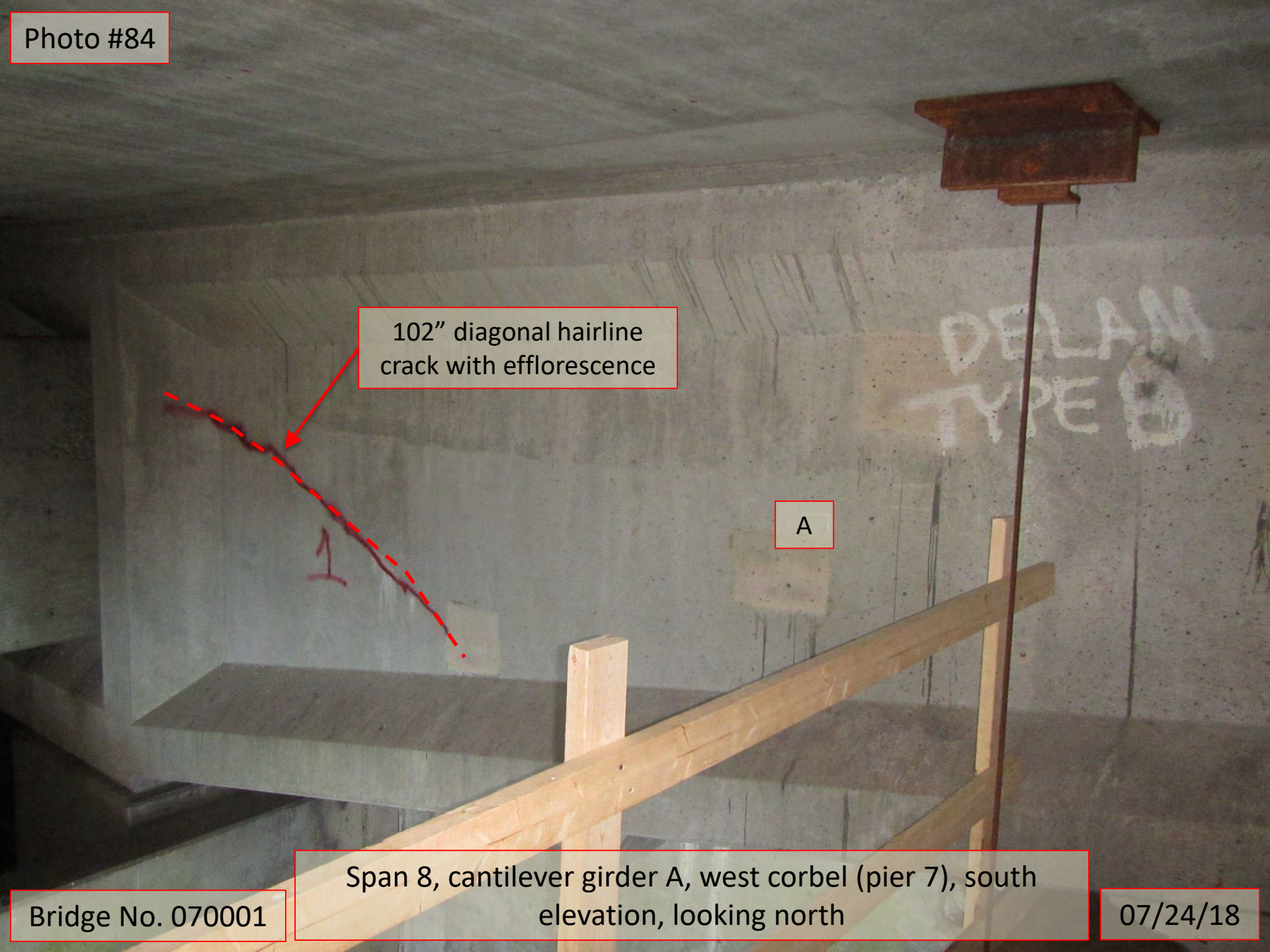
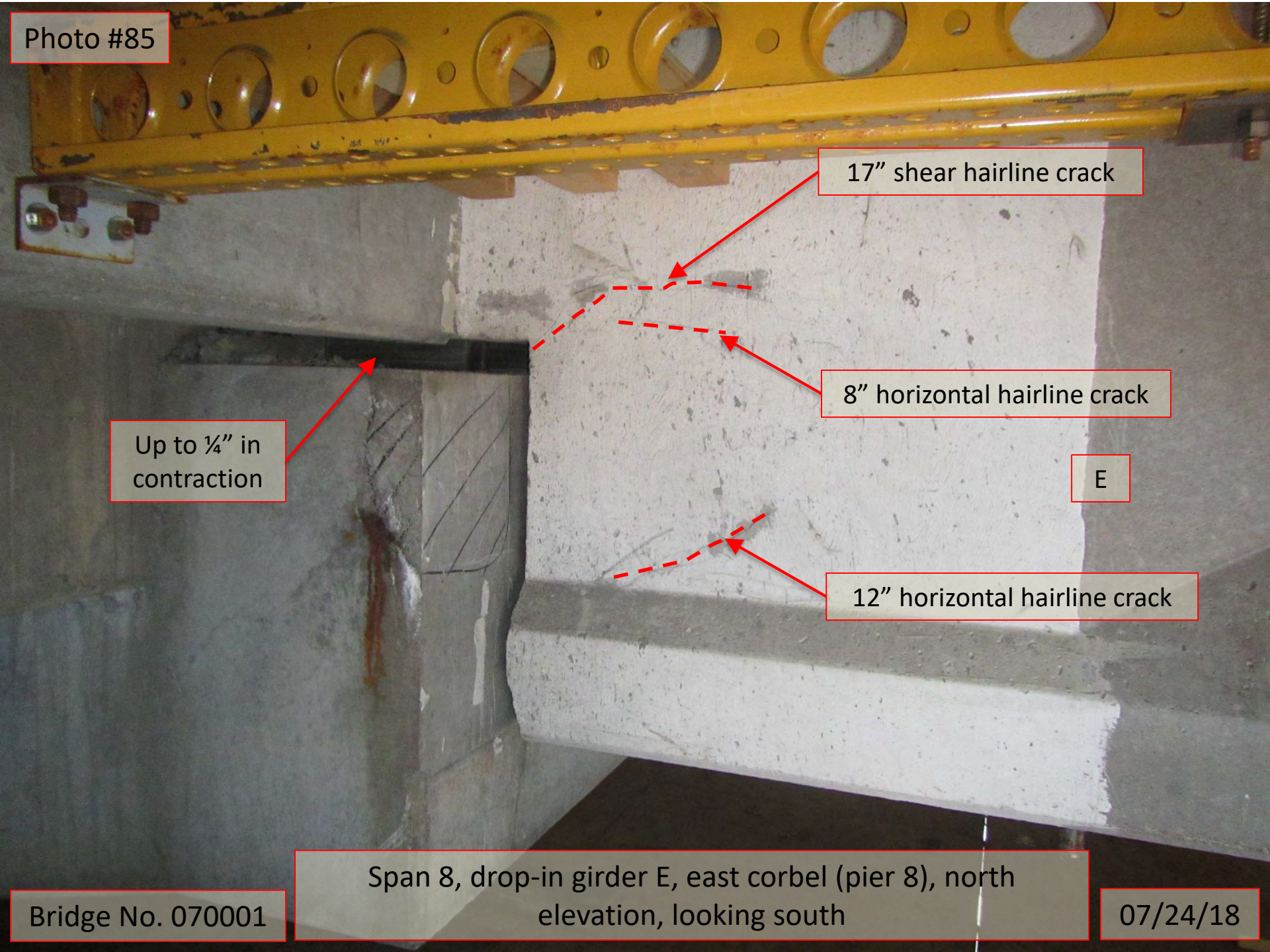

Photo #82
Bolted repair plates and angles with moderate to heavy rust
I
4' long x full width x 15/16" remaining section loss on bottom flange
6" long x 6" high x 1/8" deep section loss
Span 7, girder I, at pier 7, north elevation, looking southeast
Bridge No. 070001
07/24/18


Photo #83
A
B
C
D
E
F
Bridge No. 070001
Span 8, typical underside of deck, looking southwest
07/24/18


Photo #84
102” diagonal hairline crack with efflorescence
A
Span 8, cantilever girder A, west corbel (pier 7), south elevation, looking north
Bridge No. 070001
07/24/18


Photo #85
17” shear hairline crack
8” horizontal hairline crack
Up to ¼” in contraction
E
12” horizontal hairline crack
Bridge No. 070001
Span 8, drop-in girder E, east corbel (pier 8), north elevation, looking south
07/24/18

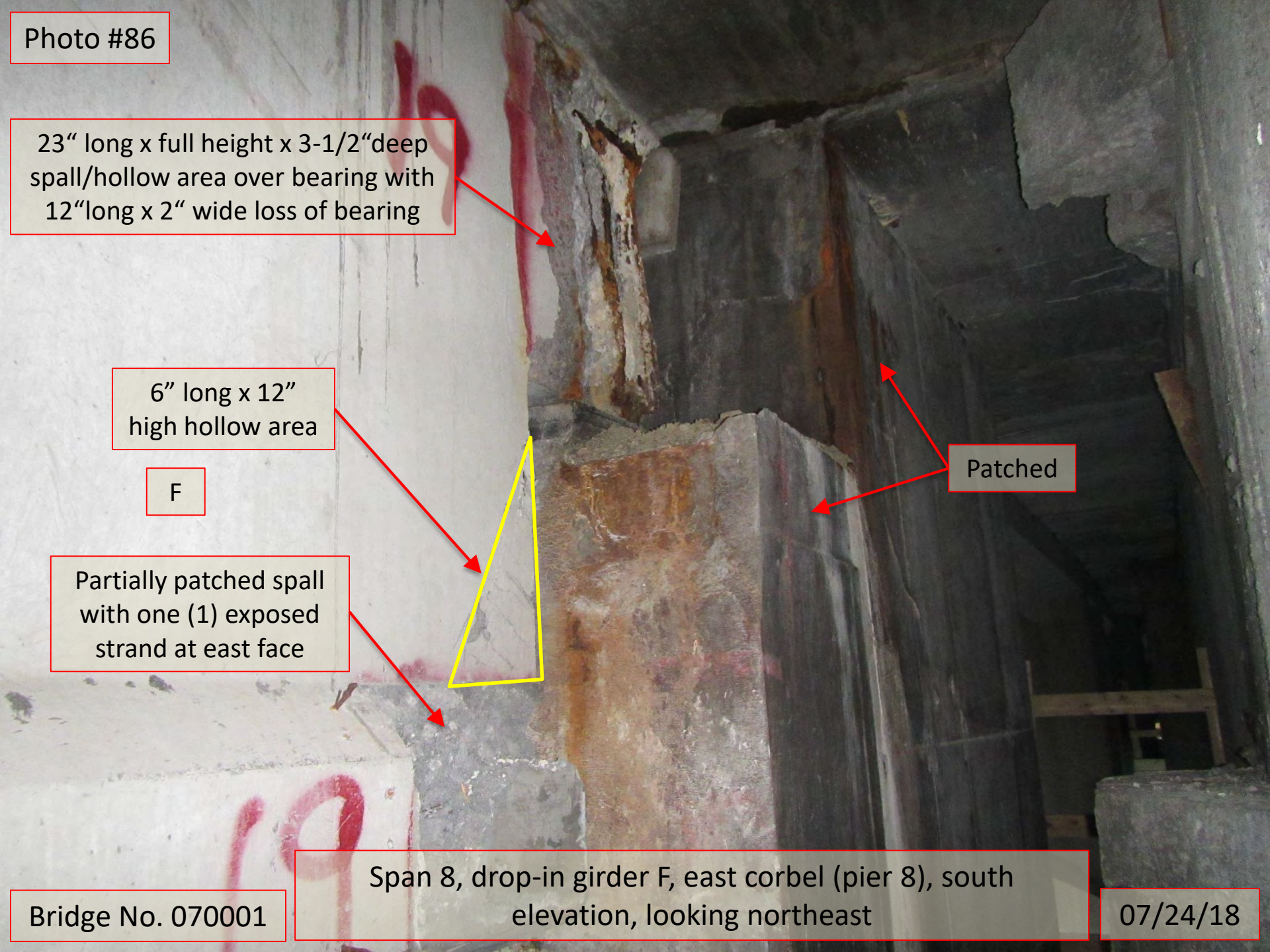
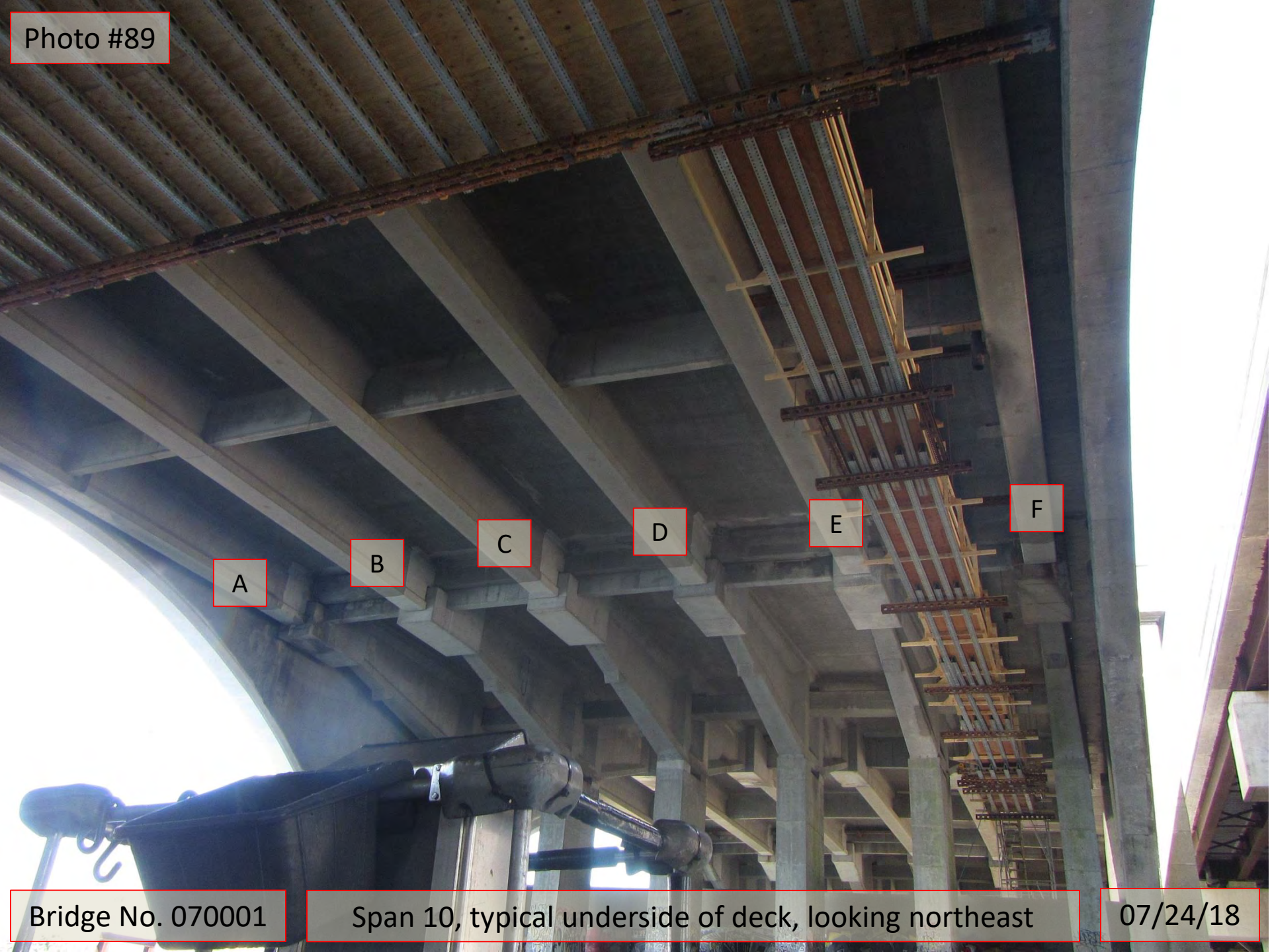
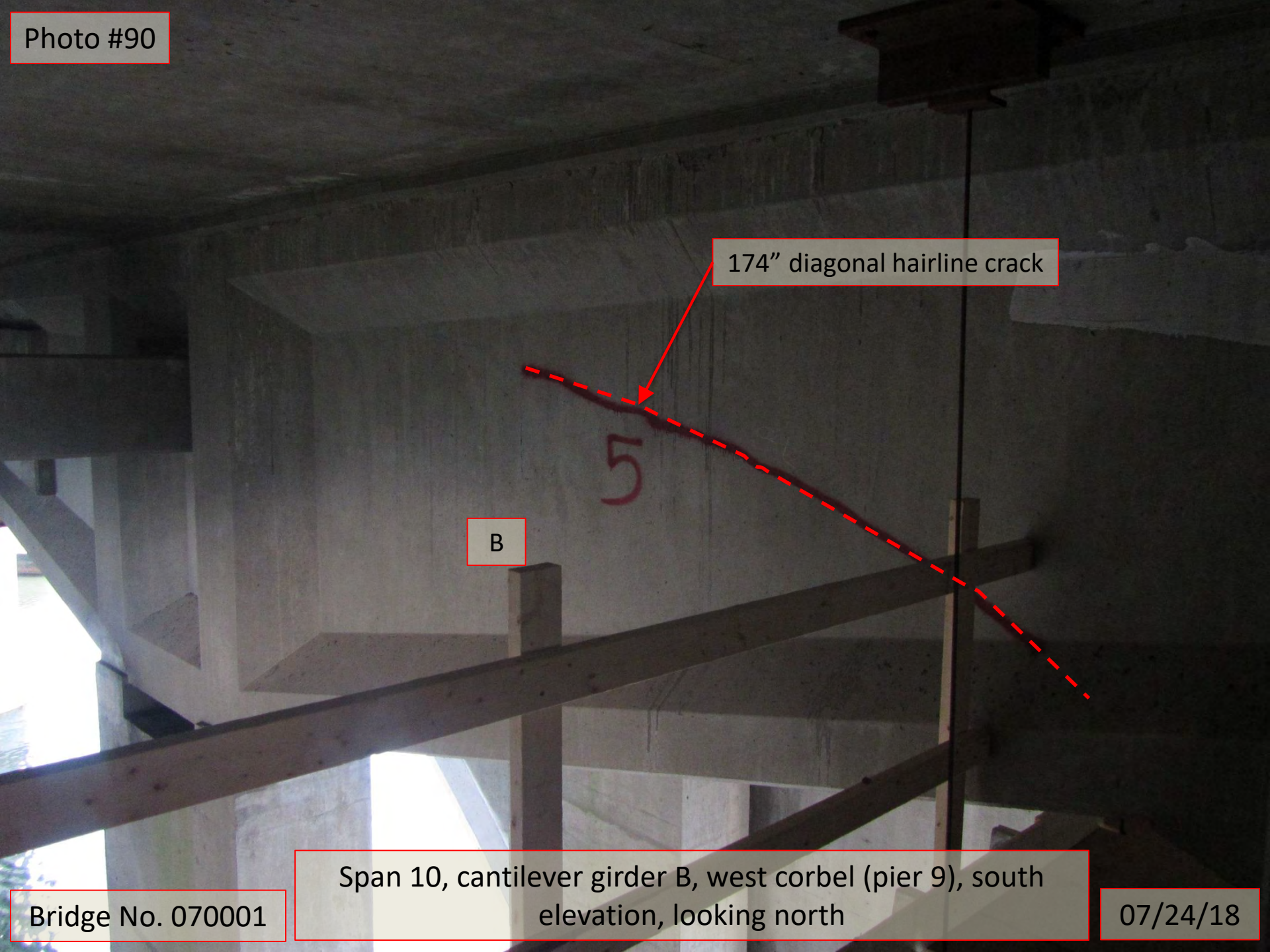

Photo #86
23“ long x full height x 3-1/2“deep spall/hollow area over bearing with 12“long x 2“ wide loss of bearing
6” long x 12” high hollow area
F
Partially patched spall with one (1) exposed strand at east face
Patched
Bridge No. 070001
Span 8, drop-in girder F, east corbel (pier 8), south elevation, looking northeast
07/24/18


Photo #87
A
B
C
D
E
F
Bridge No. 070001
Span 9, typical underside of deck, looking southwest
07/24/18


Photo #88
C
(5) Up to 8” long x 22” wide x ½” deep spalls with exposed rebar
Span 9, drop-in girder C, near west corbel (pier 8), underside, looking northeast
Bridge No. 070001
07/24/18


Photo #89
A
B
C
D
E
F
Bridge No. 070001
Span 10, typical underside of deck, looking northeast
07/24/18


Photo #90
174” diagonal hairline crack
5
B
Span 10, cantilever girder B, west corbel (pier 9), south elevation, looking north
Bridge No. 070001
07/24/18

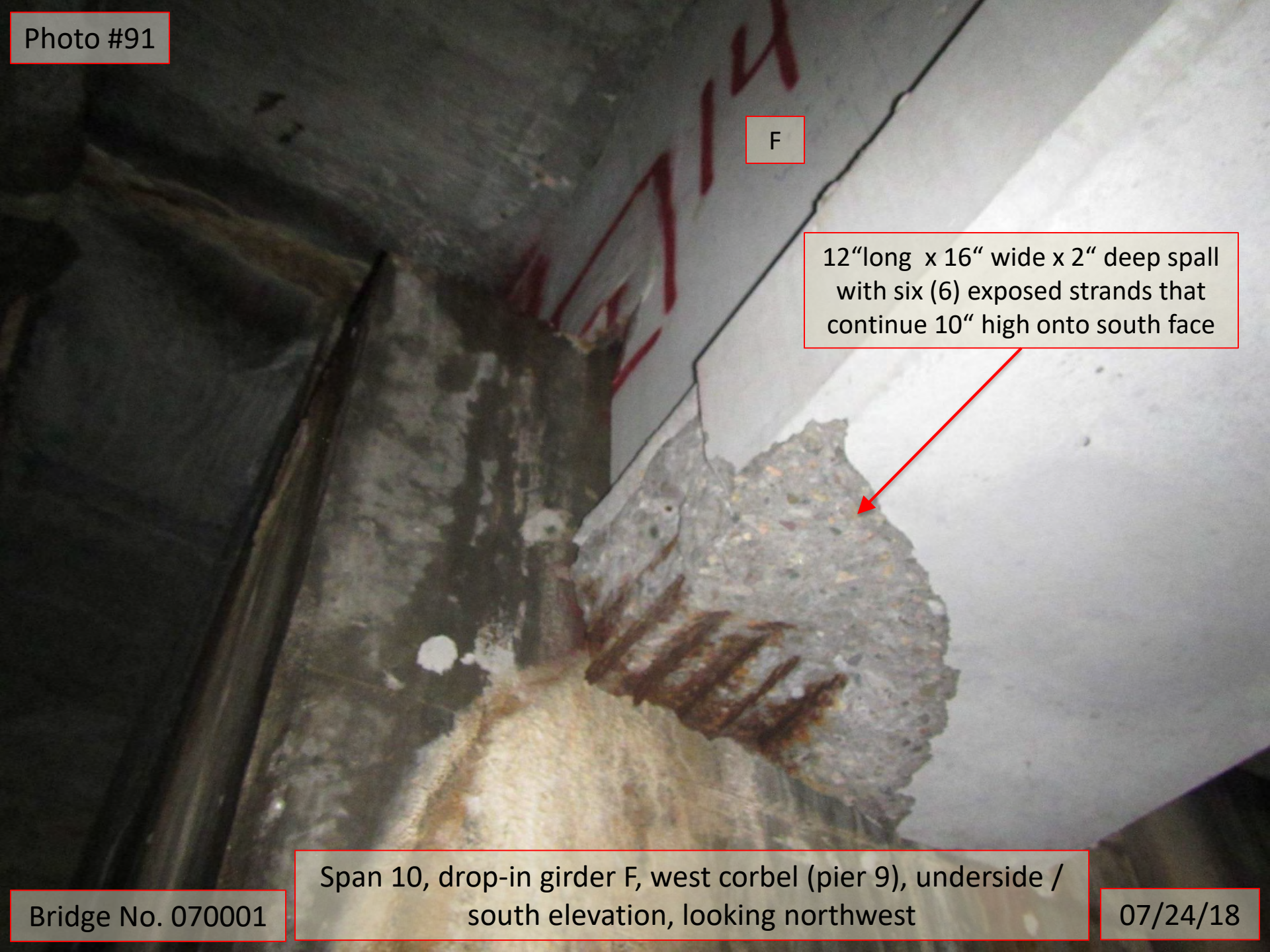

Photo #91
F
12“long x 16“ wide x 2“ deep spall with six (6) exposed strands that continue 10“ high onto south face
Span 10, drop-in girder F, west corbel (pier 9), underside / south elevation, looking northwest
Bridge No. 070001
07/24/18


Photo #92
F
E
D
C
B
A
Bridge No. 070001
Span 11, typical underside of deck, looking northwest
07/24/18

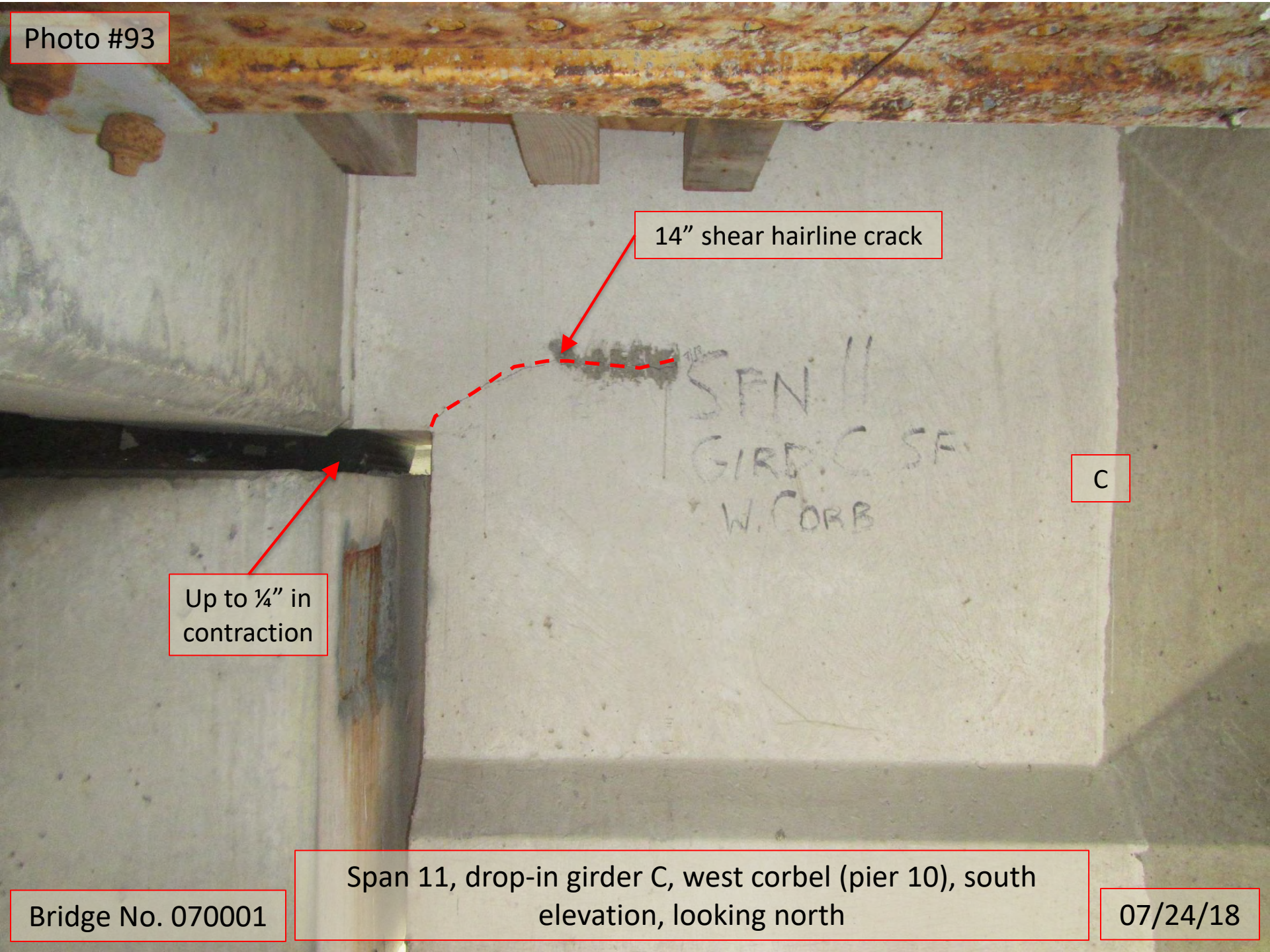

Photo #93
14” shear hairline crack
SPN 11
GIRD C SF
W. CORB
C
Up to ¼” in contraction
Span 11, drop-in girder C, west corbel (pier 10), south elevation, looking north
Bridge No. 070001
07/24/18


Photo #94
20“ long x 23“ high x up to 4“ deep spall with two (2) exposed rebar reducing bearing area full length x 2” wide
F
Span 11, drop-in girder F, west corbel (pier 10), south elevation, looking northwest
Bridge No. 070001
07/24/18

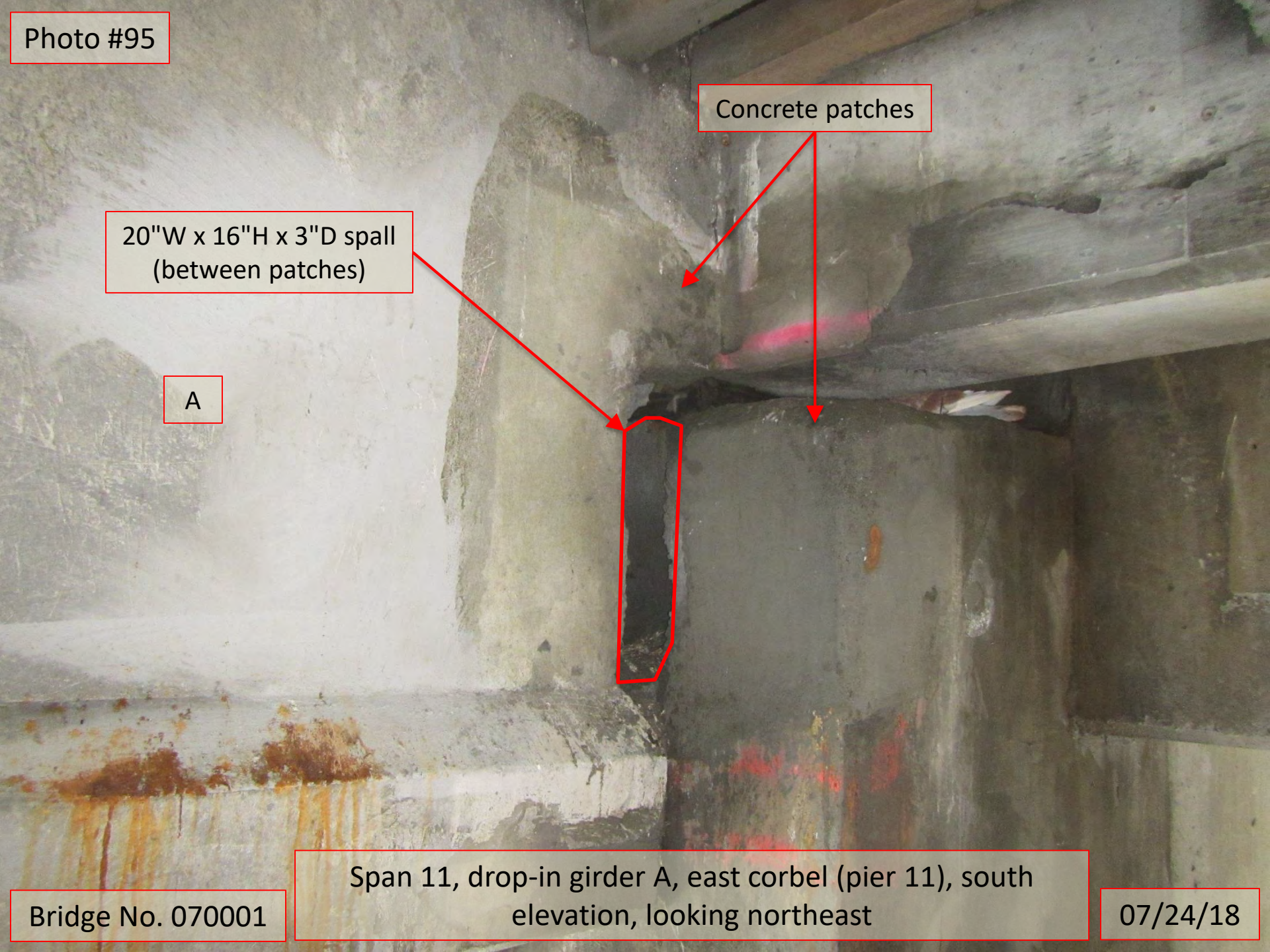
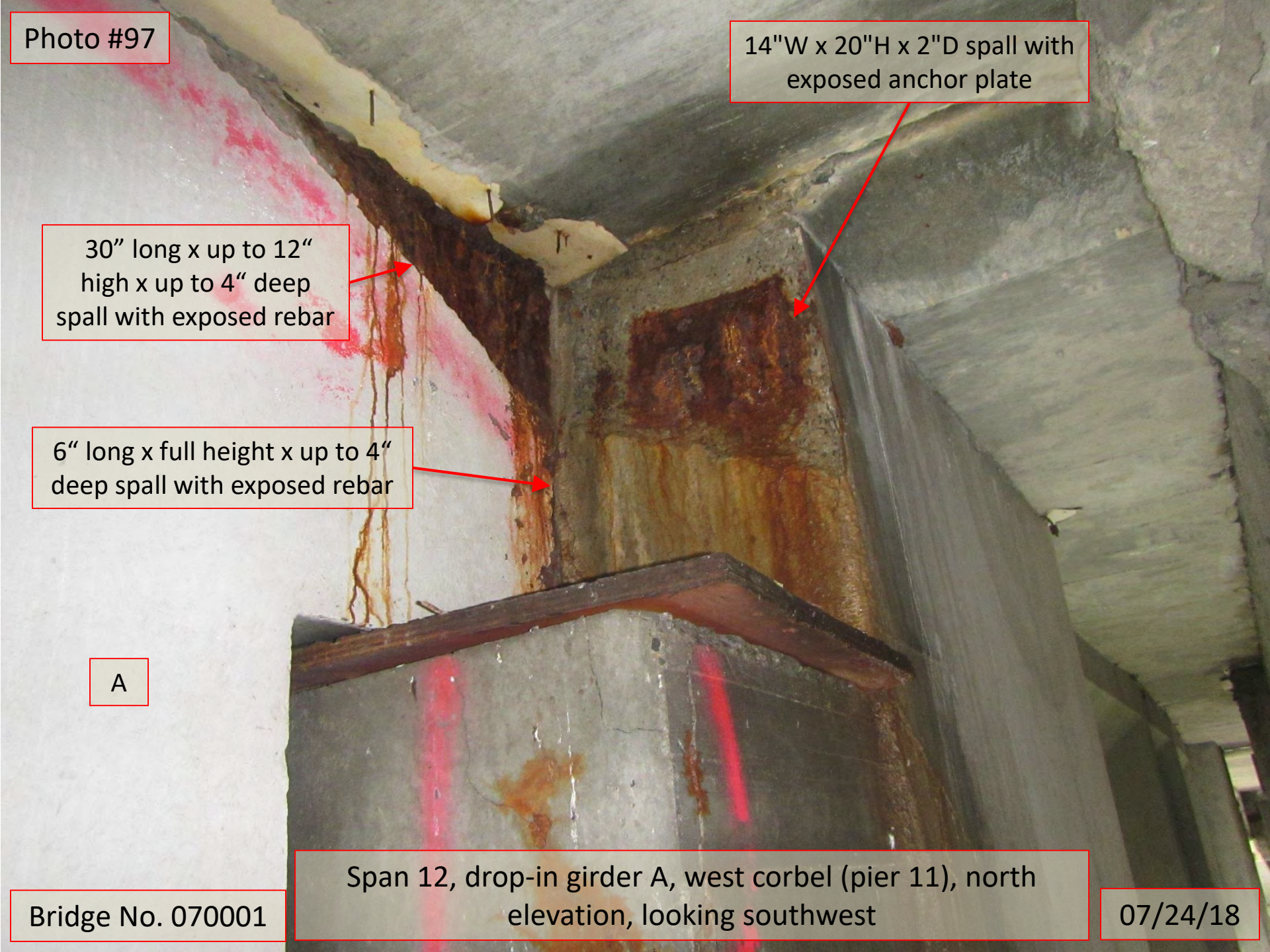

Photo #95
Concrete patches
20"W x 16"H x 3"D spall
(between patches)
A
Span 11, drop-in girder A, east corbel (pier 11), south elevation, looking northeast
Bridge No. 070001
07/24/18


Photo #96
F
E
D
C
B
A
Bridge No. 070001
Span 12, typical underside of deck, looking northwest
07/24/18


Photo #97
14"W x 20"H x 2"D spall with exposed anchor plate
30” long x up to 12“ high x up to 4“ deep spall with exposed rebar
6“ long x full height x up to 4“ deep spall with exposed rebar
A
Bridge No. 070001
Span 12, drop-in girder A, west corbel (pier 11), north elevation, looking southwest
07/24/18

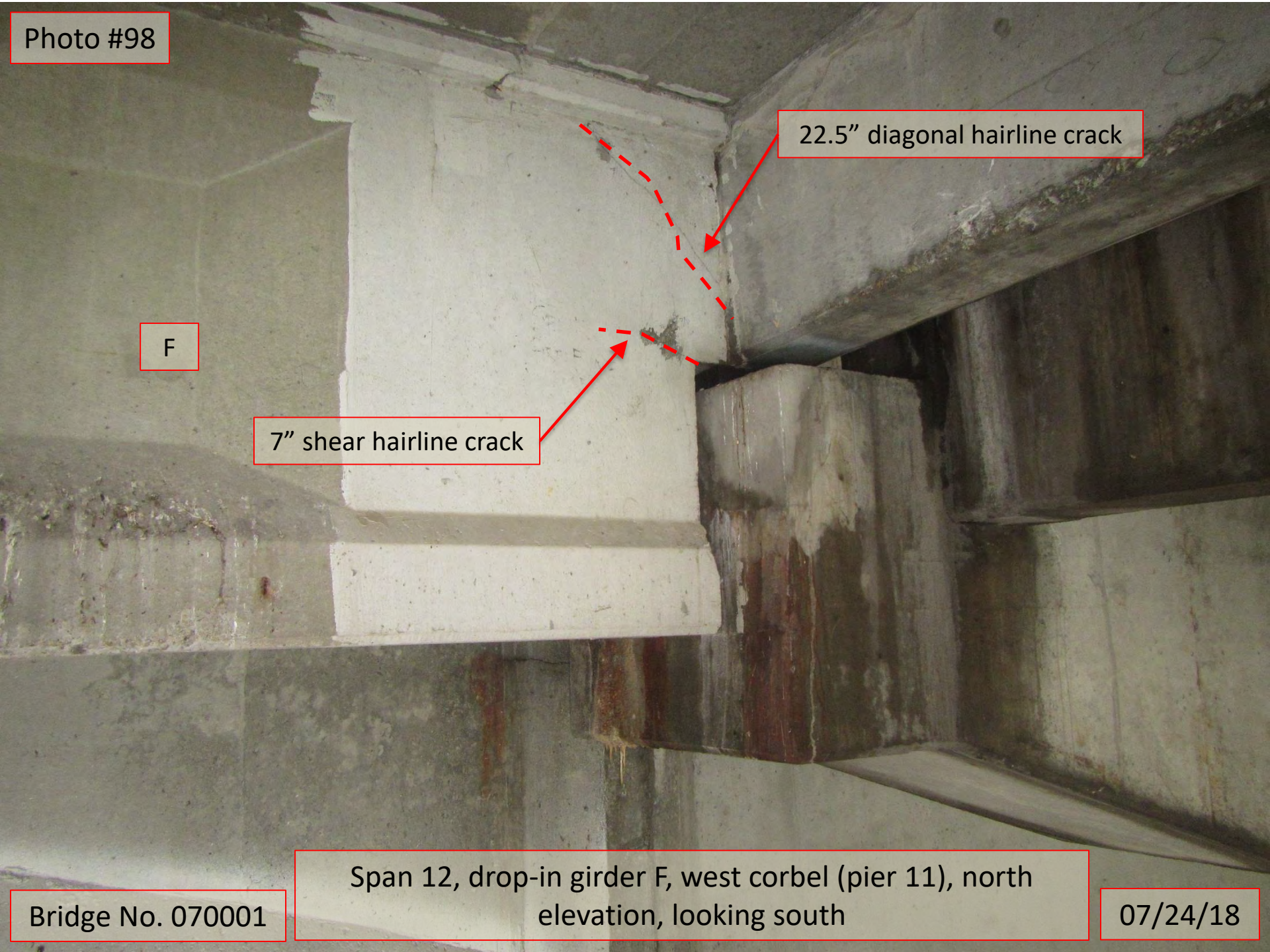

Photo #98
22.5” diagonal hairline crack
F
7” shear hairline crack
Bridge No. 070001
Span 12, drop-in girder F, west corbel (pier 11), north elevation, looking south
07/24/18


Photo #99
F
E
D
C
B
A
Bridge No. 070001
Span 13, typical underside of deck, looking northwest
07/24/18


Photo #100
C
16.5” shear hairline crack
Bridge No. 070001
Span 13, drop-in girder C, west corbel (pier 12), north elevation, looking south
07/24/18

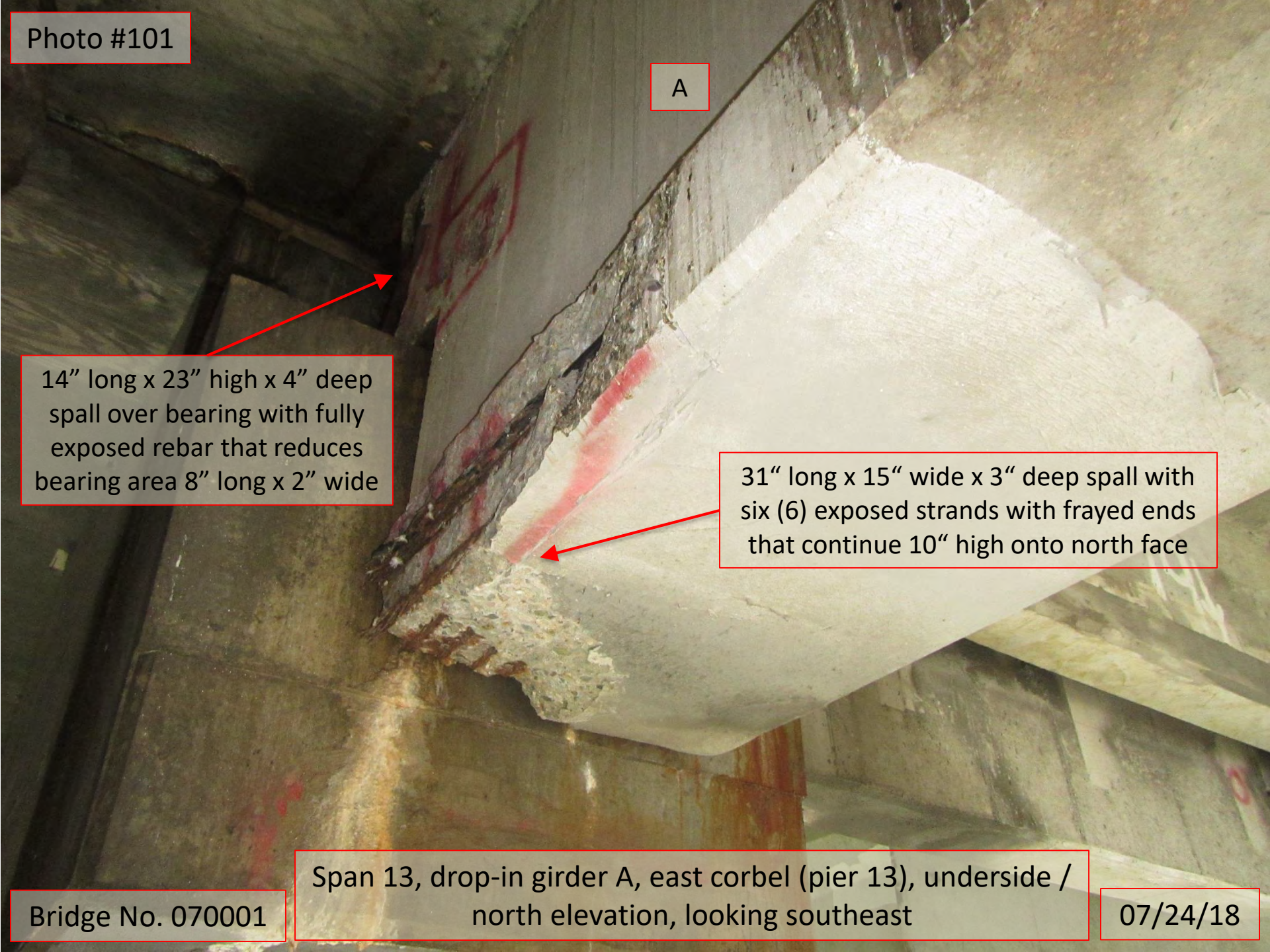
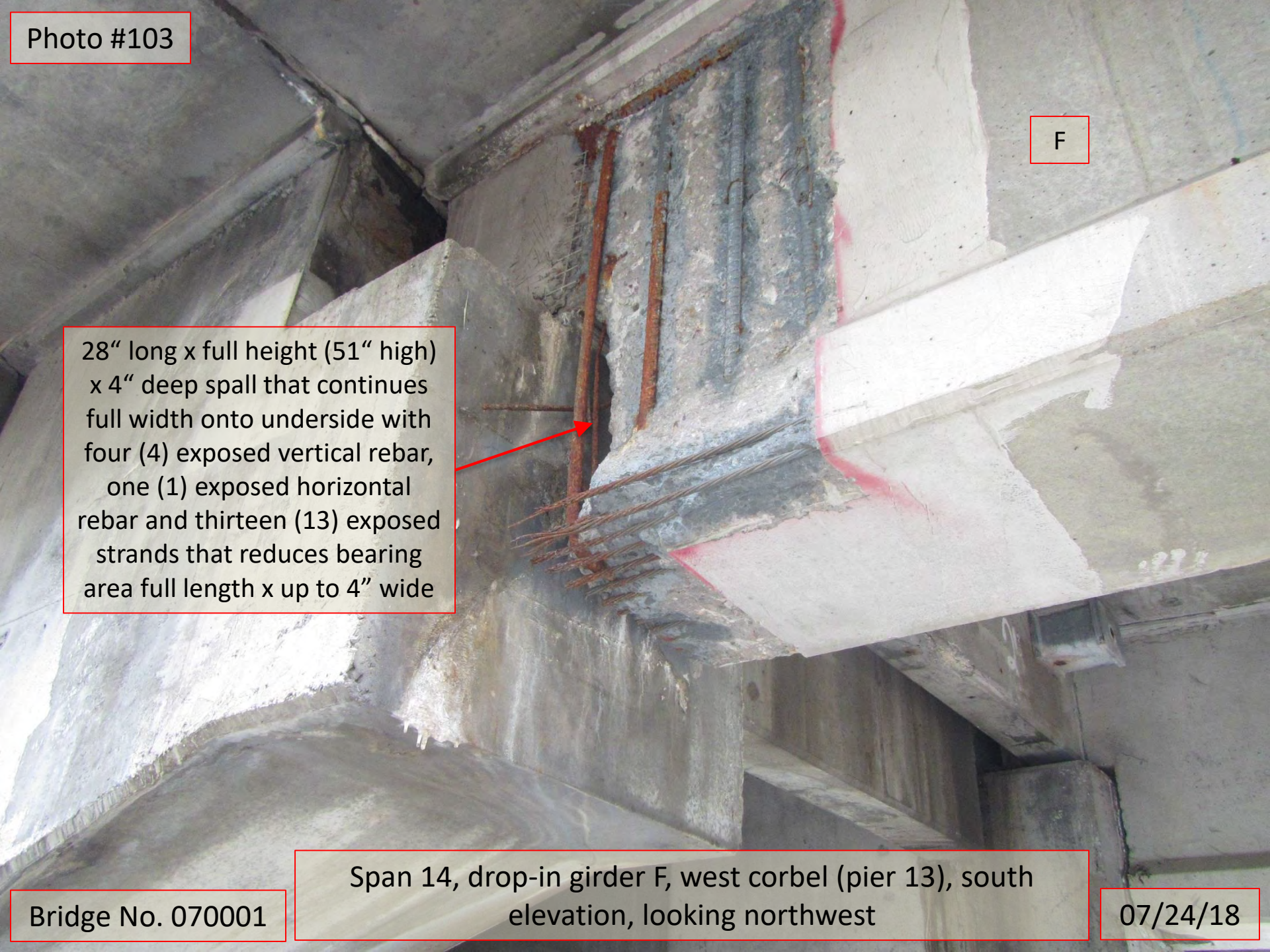
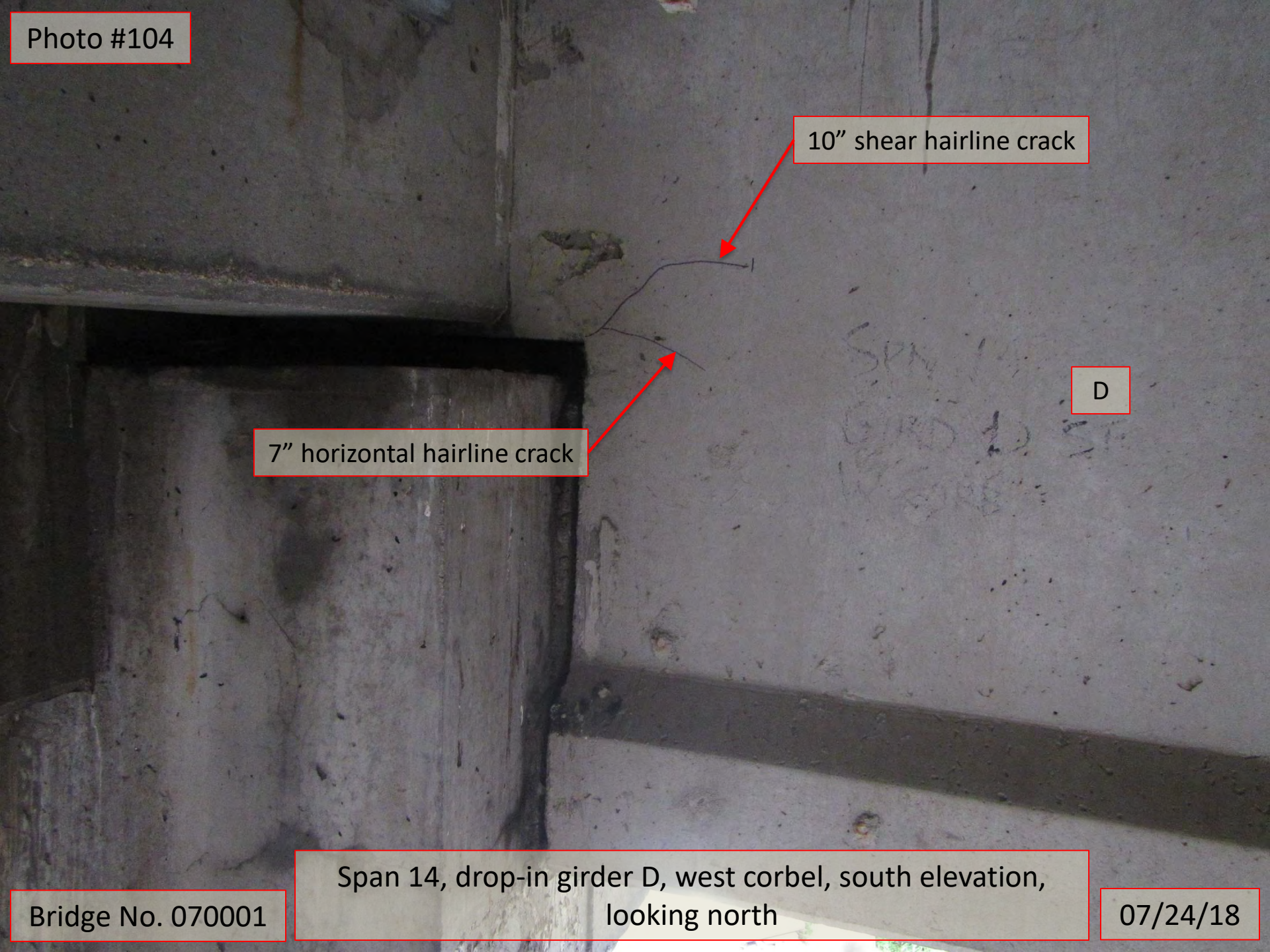
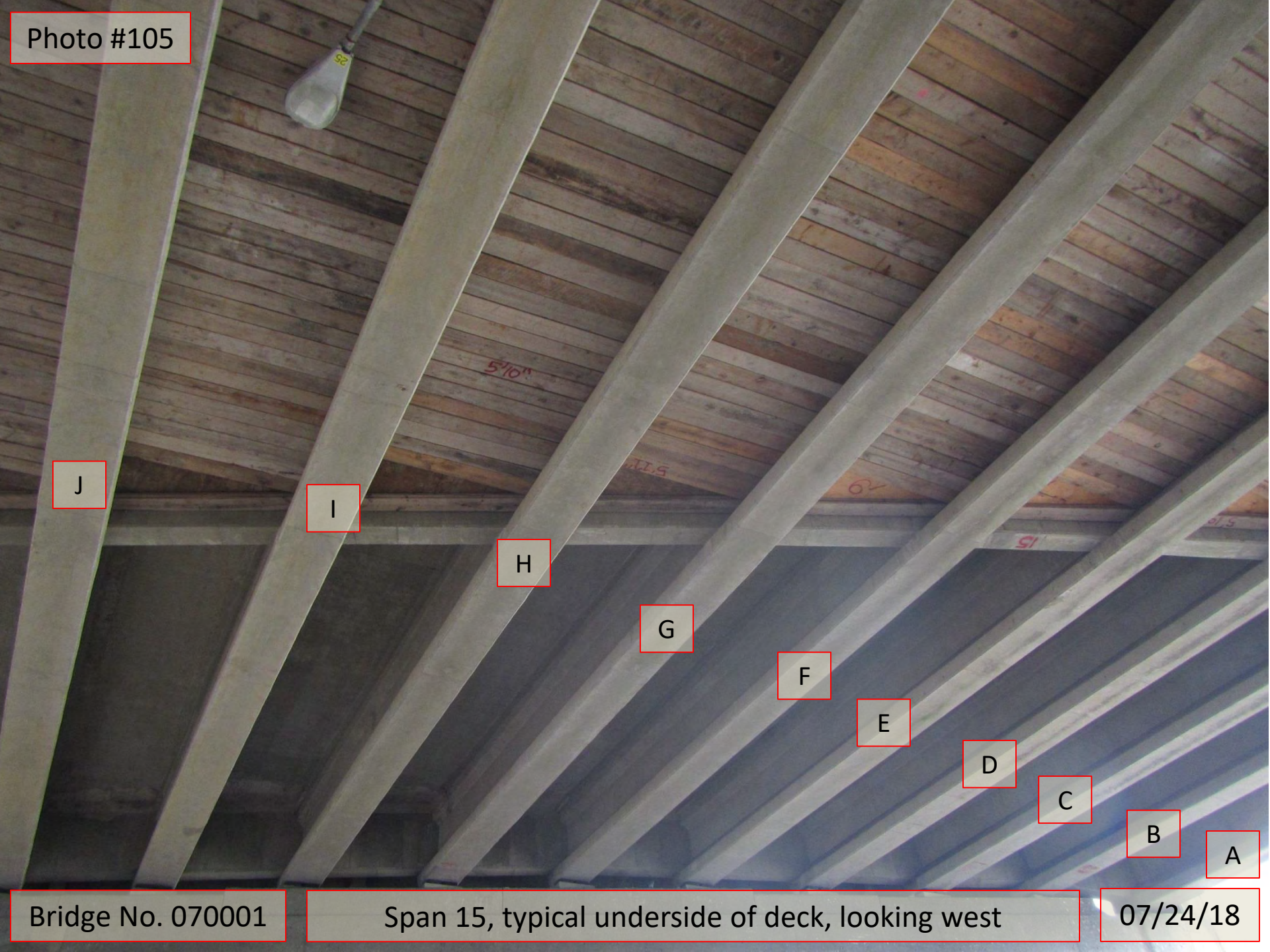
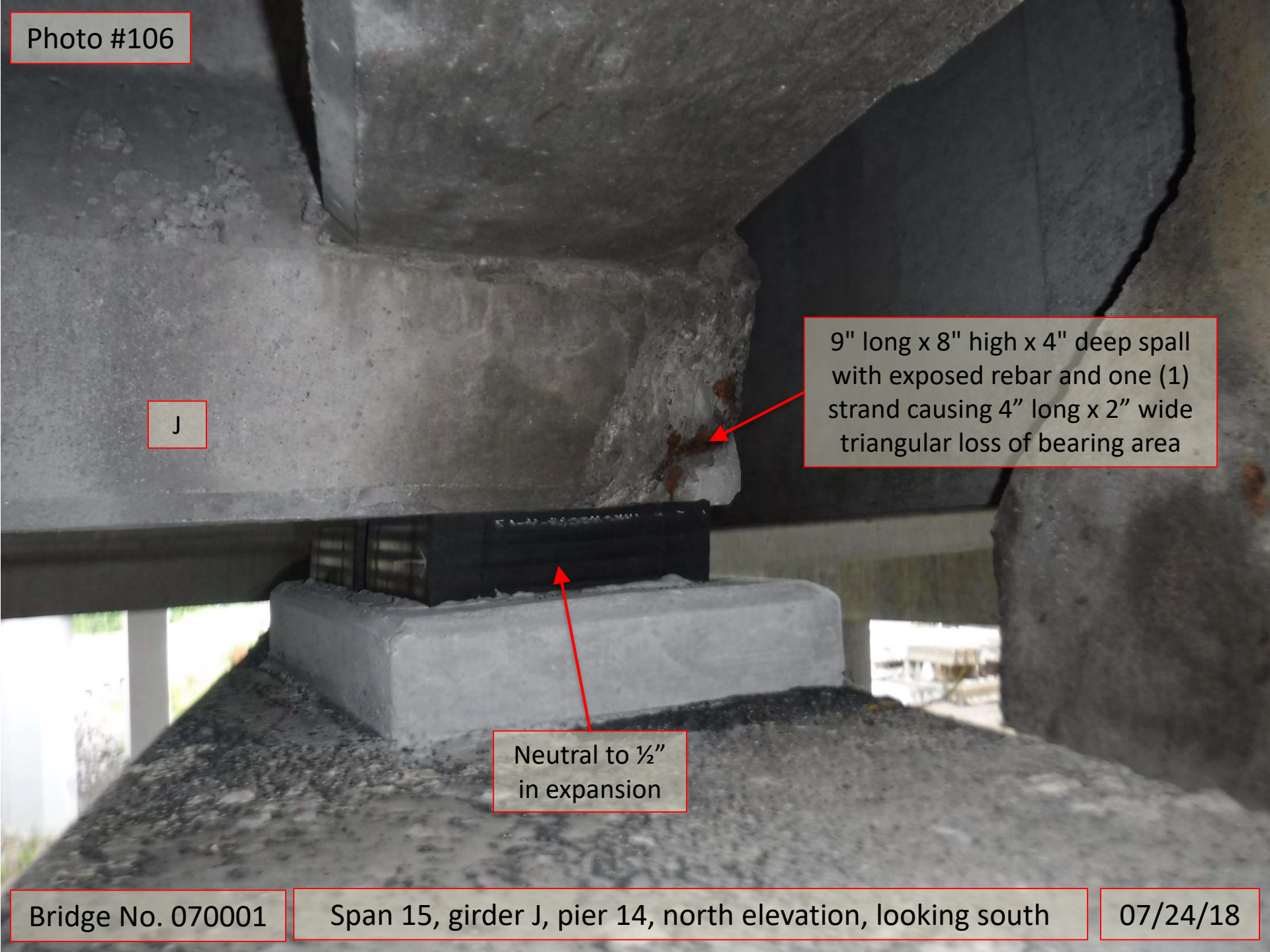

Photo #101
A
14” long x 23” high x 4” deep spall over bearing with fully exposed rebar that reduces bearing area 8” long x 2” wide
31“ long x 15“ wide x 3“ deep spall with six (6) exposed strands with frayed ends that continue 10“ high onto north face
Bridge No. 070001
Span 13, drop-in girder A, east corbel (pier 13), underside / north elevation, looking southeast
07/24/18

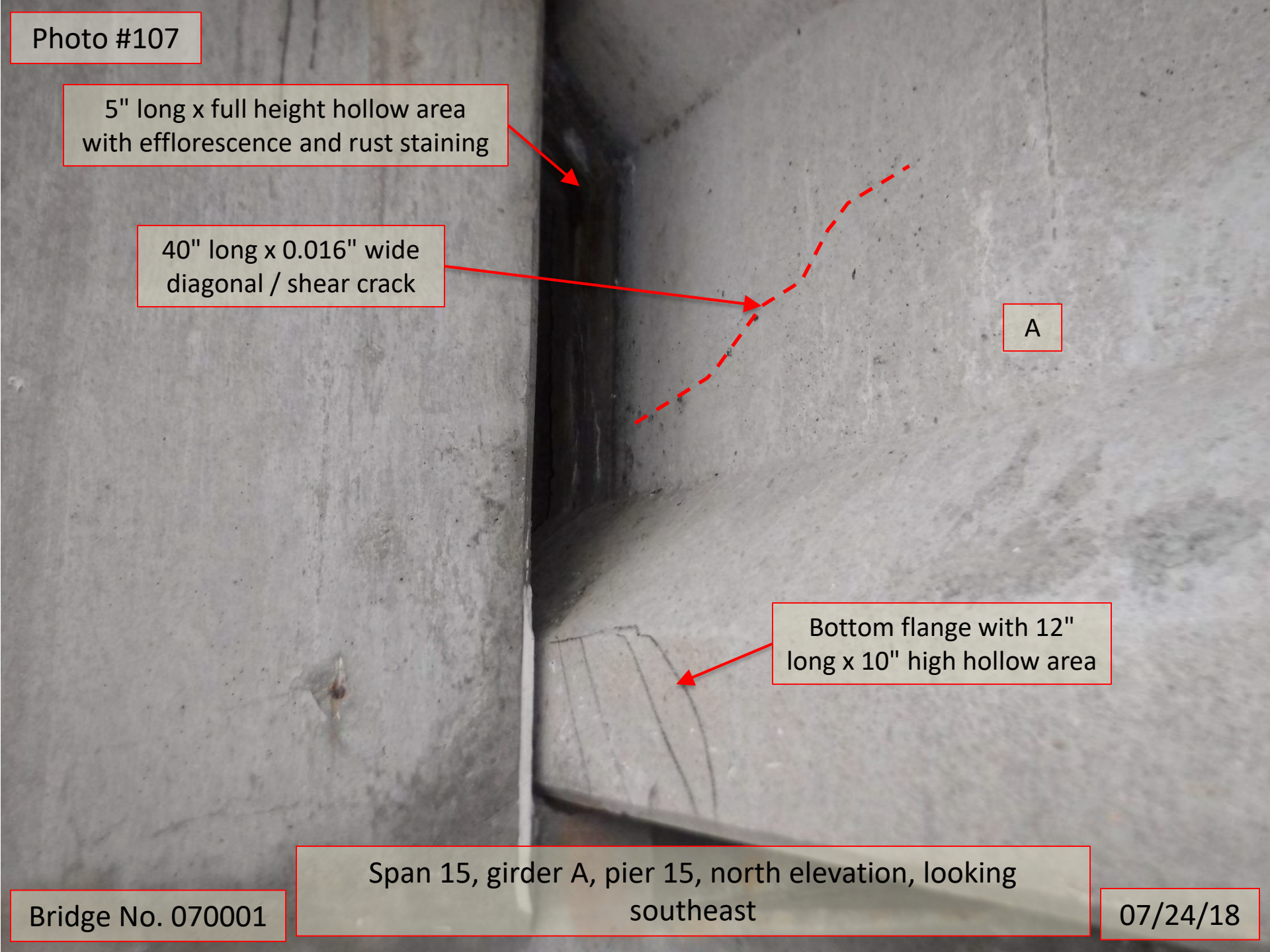

Photo #102
A
B
C
D
E
F
Bridge No. 070001
Span 14, typical underside of deck, looking southwest
07/24/18

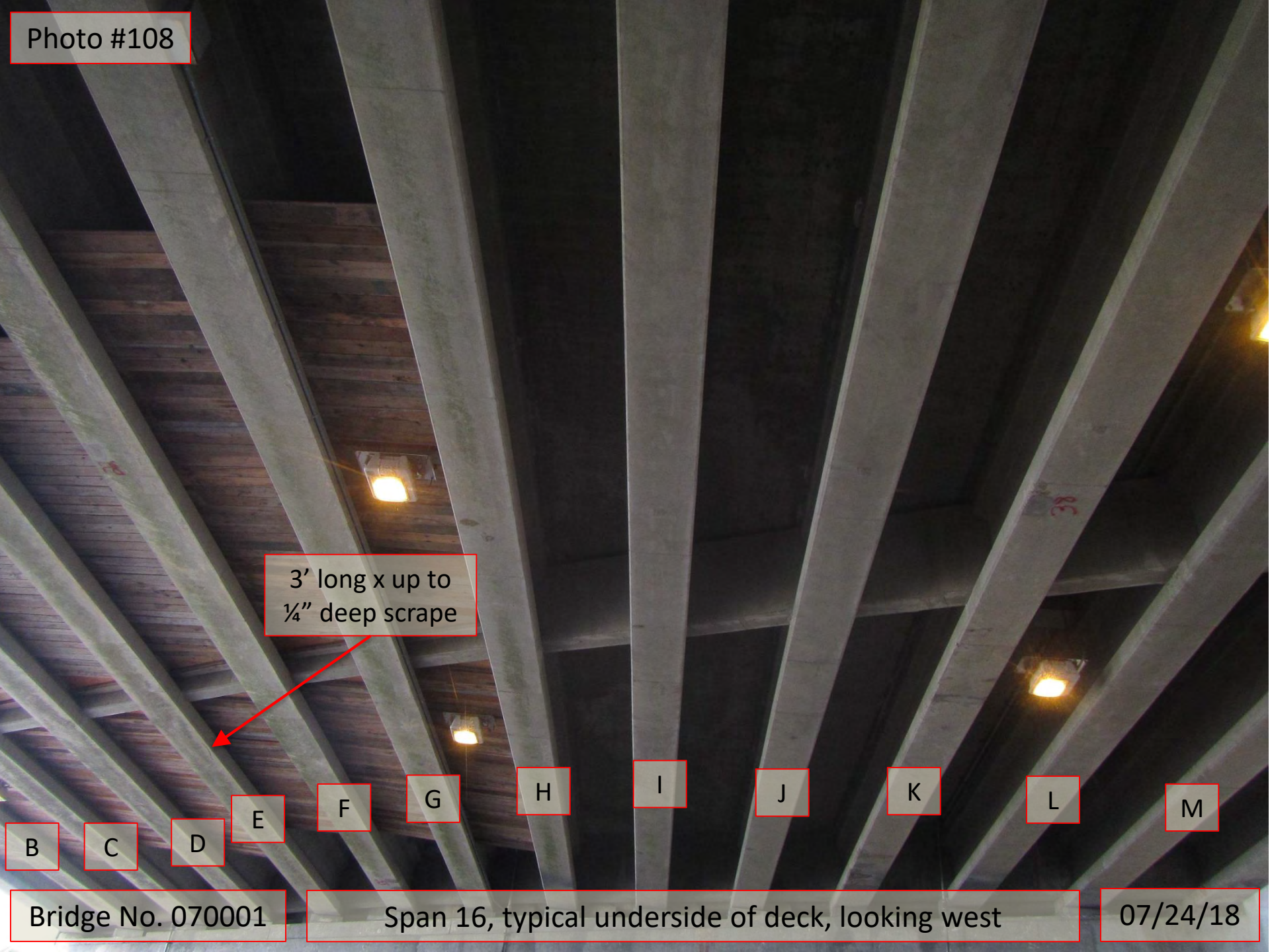

Photo #103
F
28“ long x full height (51“ high) x 4“ deep spall that continues full width onto underside with four (4) exposed vertical rebar, one (1) exposed horizontal rebar and thirteen (13) exposed strands that reduces bearing area full length x up to 4” wide
Bridge No. 070001
Span 14, drop-in girder F, west corbel (pier 13), south elevation, looking northwest
07/24/18

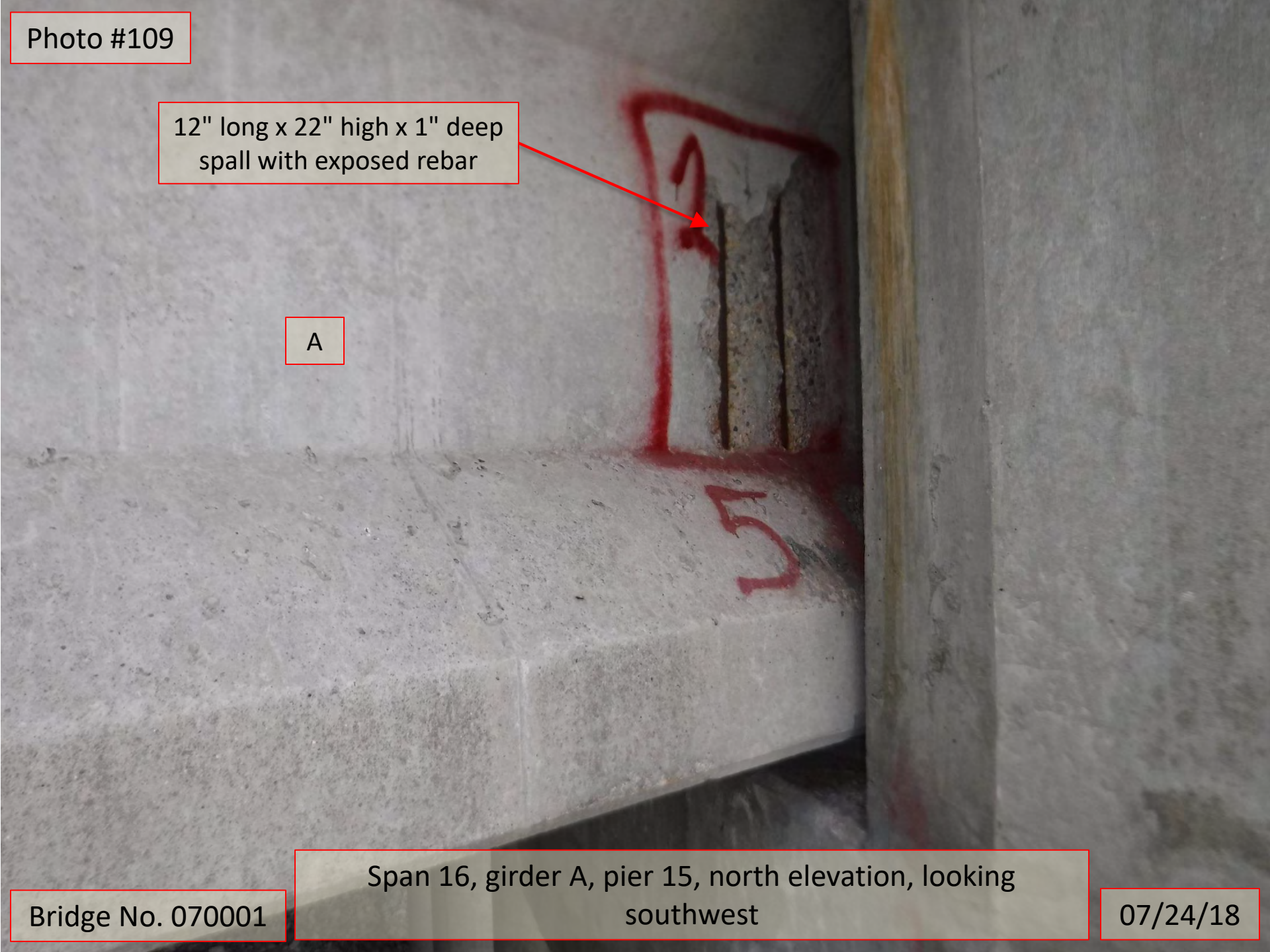

Photo #104
10” shear hairline crack
D
7” horizontal hairline crack
Span 14, drop-in girder D, west corbel, south elevation, looking north
Bridge No. 070001
07/24/18

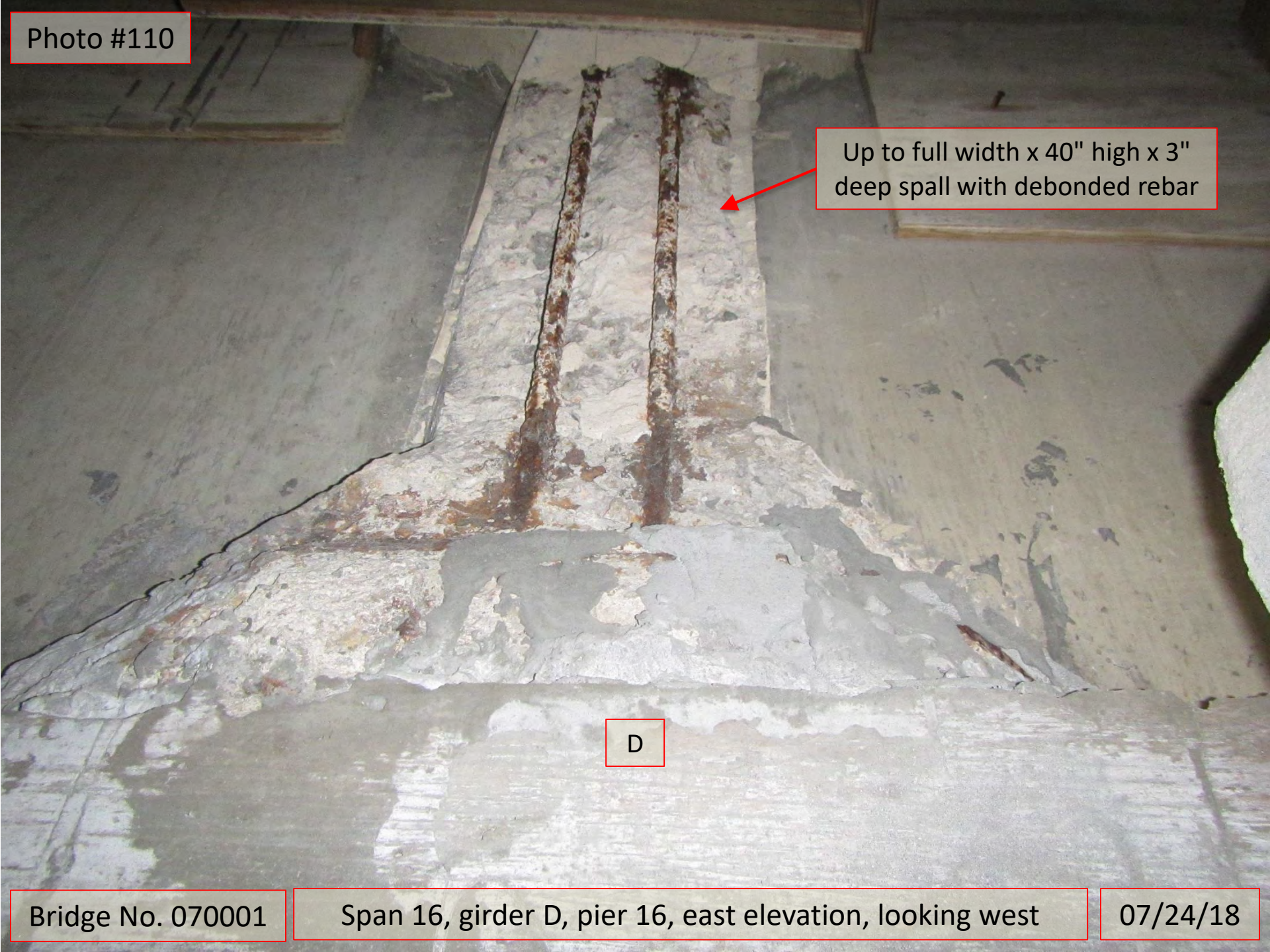

Photo #105
J
I
H
G
F
E
D
C
B
A
Bridge No. 070001
Span 15, typical underside of deck, looking west
07/24/18


Photo #106
J
9" long x 8" high x 4" deep spall with exposed rebar and one (1) strand causing 4” long x 2” wide triangular loss of bearing area
Neutral to ½” in expansion
Bridge No. 070001
Span 15, girder J, pier 14, north elevation, looking south
07/24/18


Photo #107
5" long x full height hollow area with efflorescence and rust staining
40" long x 0.016" wide diagonal / shear crack
A
Bottom flange with 12" long x 10" high hollow area
Span 15, girder A, pier 15, north elevation, looking southeast
Bridge No. 070001
07/24/18


Photo #108
3’ long x up to ¼” deep scrape
B
C
D
E
F
G
H
I
J
K
L
M
Bridge No. 070001
Span 16, typical underside of deck, looking west
07/24/18


Photo #109
12" long x 22" high x 1" deep spall with exposed rebar
A
Span 16, girder A, pier 15, north elevation, looking southwest
Bridge No. 070001
07/24/18


Photo #110
Up to full width x 40" high x 3" deep spall with debonded rebar
D
Bridge No. 070001
Span 16, girder D, pier 16, east elevation, looking west
07/24/18

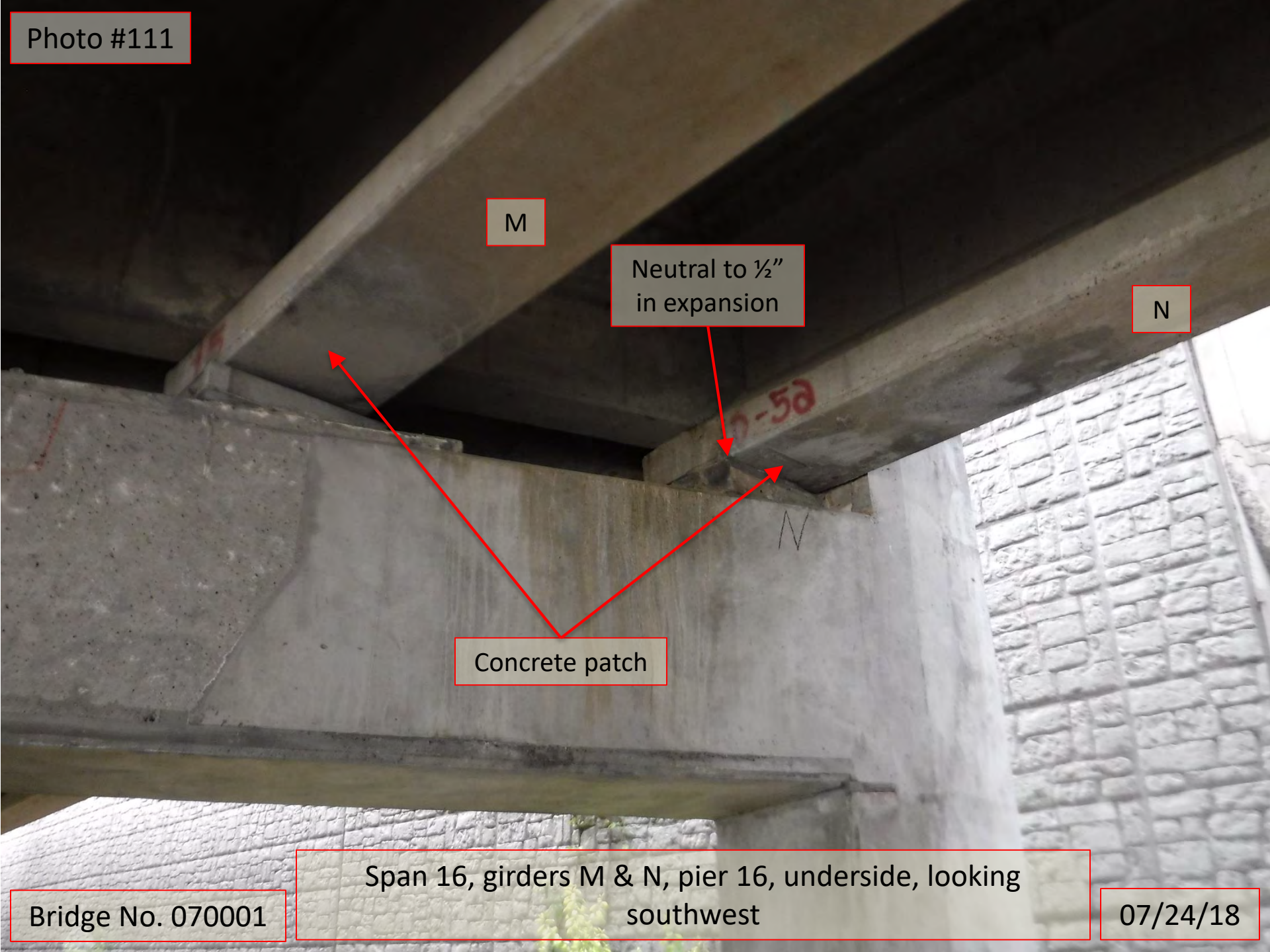
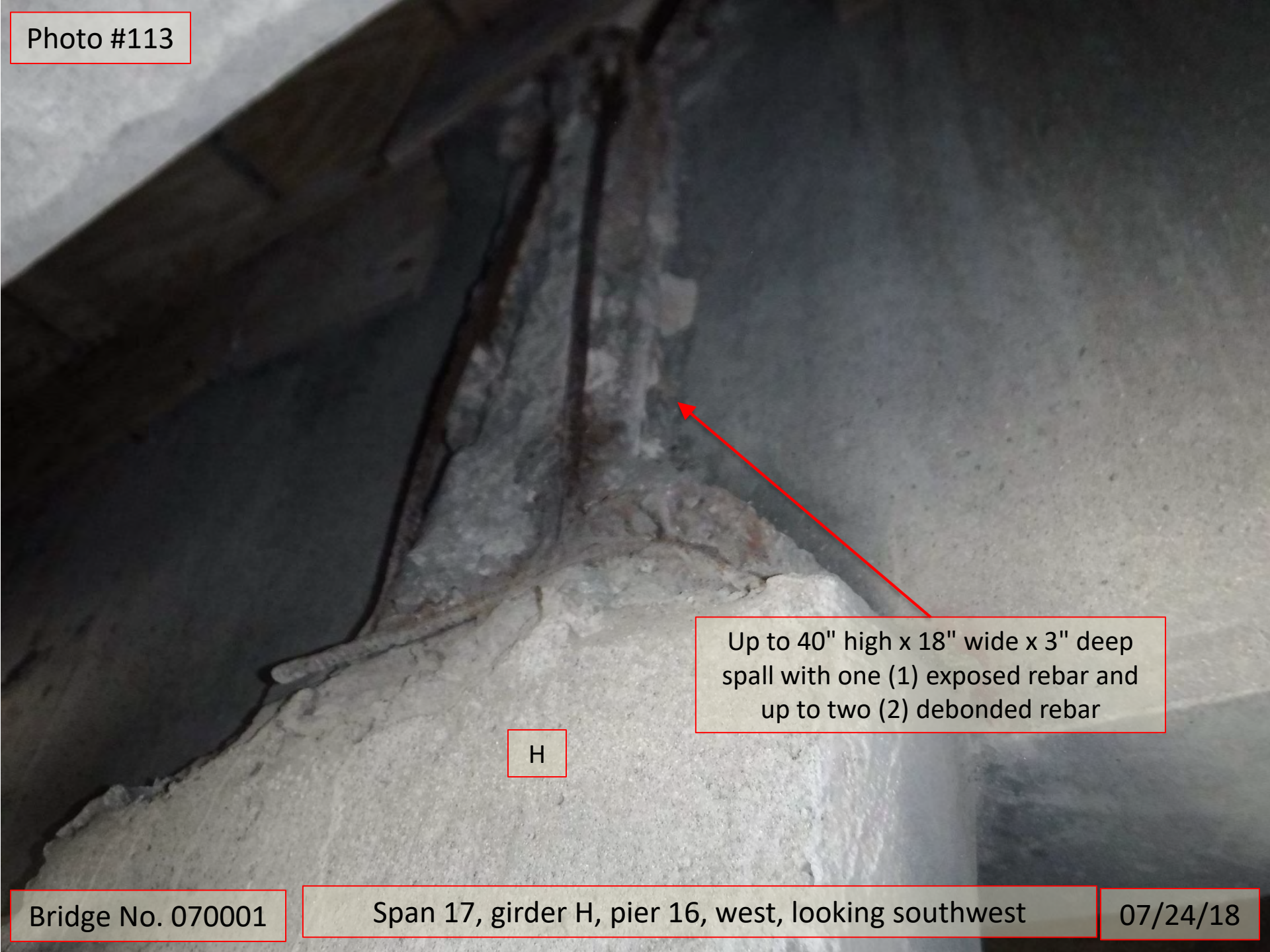

Photo #111
M
Neutral to ½”
in expansion
N
Concrete patch
Span 16, girders M & N, pier 16, underside, looking
southwest
Bridge No. 070001
07/24/18


Photo #112
O
M
L
K
J
I
H
Bridge No. 070001
Span 17, typical underside of deck, looking northwest
07/24/18


Photo #113
Up to 40" high x 18" wide x 3" deep spall with one (1) exposed rebar and up to two (2) debonded rebar
H
Bridge No. 070001
Span 17, girder H, pier 16, west, looking southwest
07/24/18

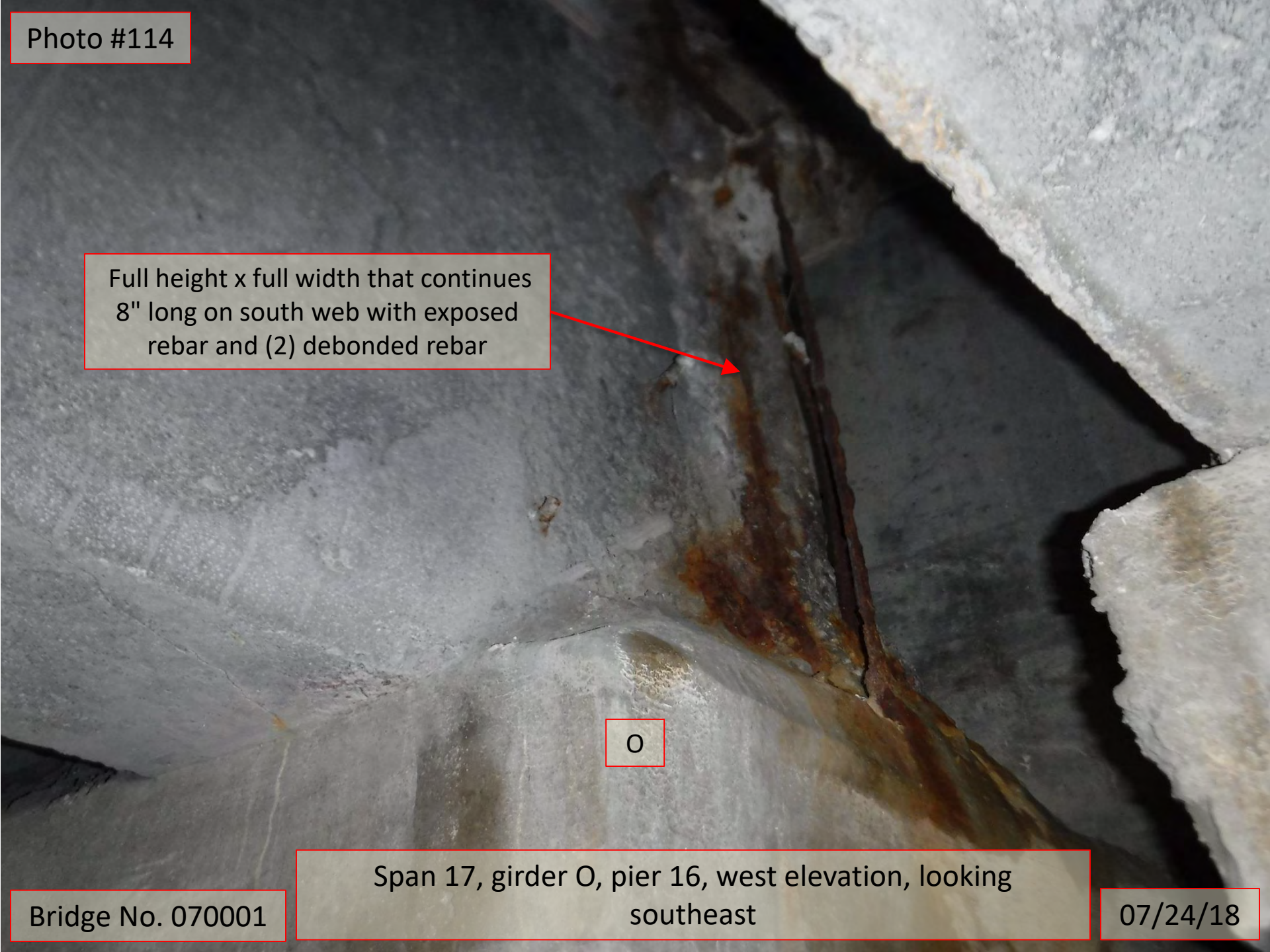

Photo #114
Full height x full width that continues 8" long on south web with exposed rebar and (2) debonded rebar
O
Span 17, girder O, pier 16, west elevation, looking southeast
Bridge No. 070001
07/24/18


Photo #115
A
Concrete patch
KAY
Bridge No. 070001
Span 17, girder A, pier 17, south elevation, looking north
07/24/18

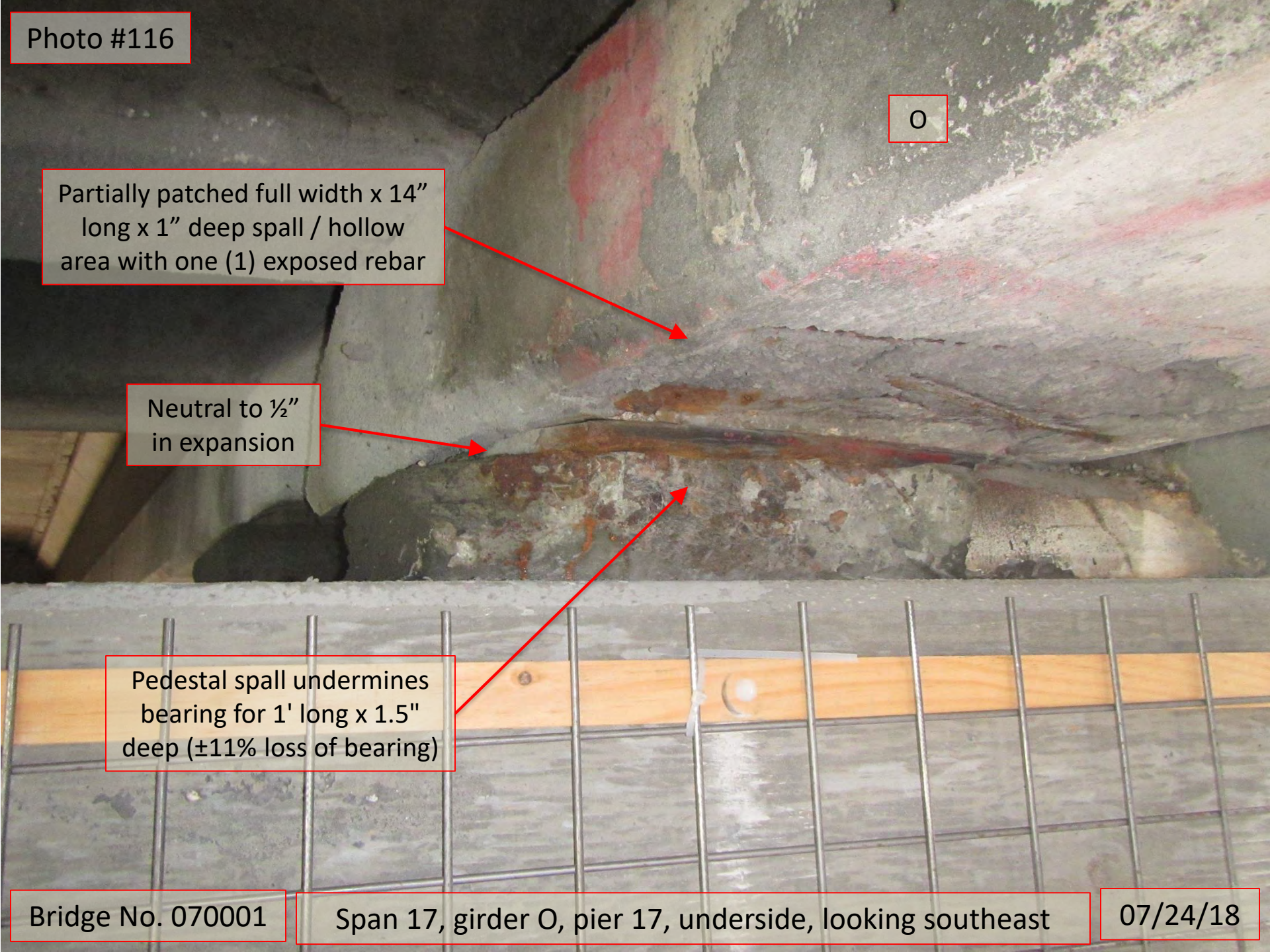
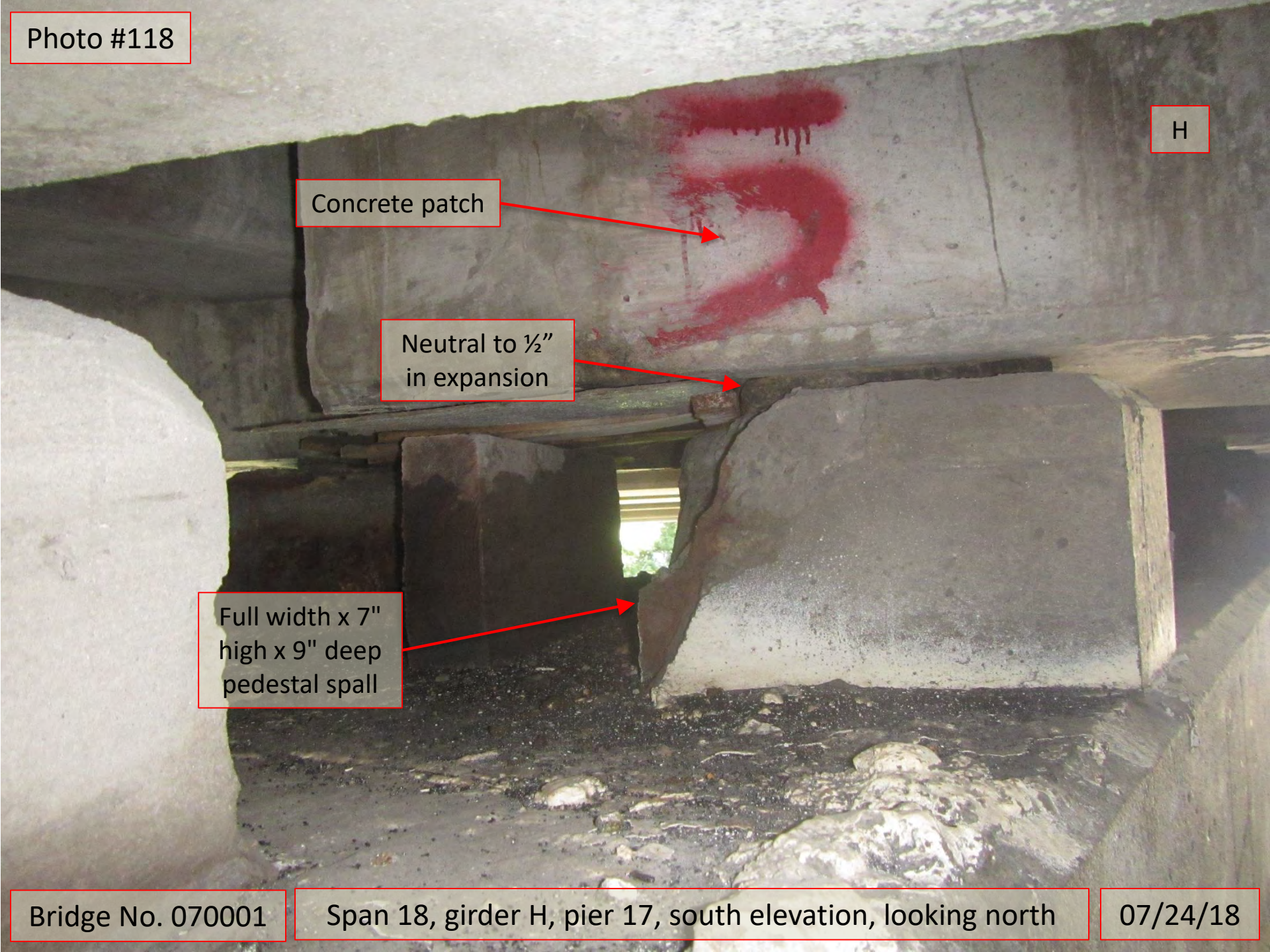
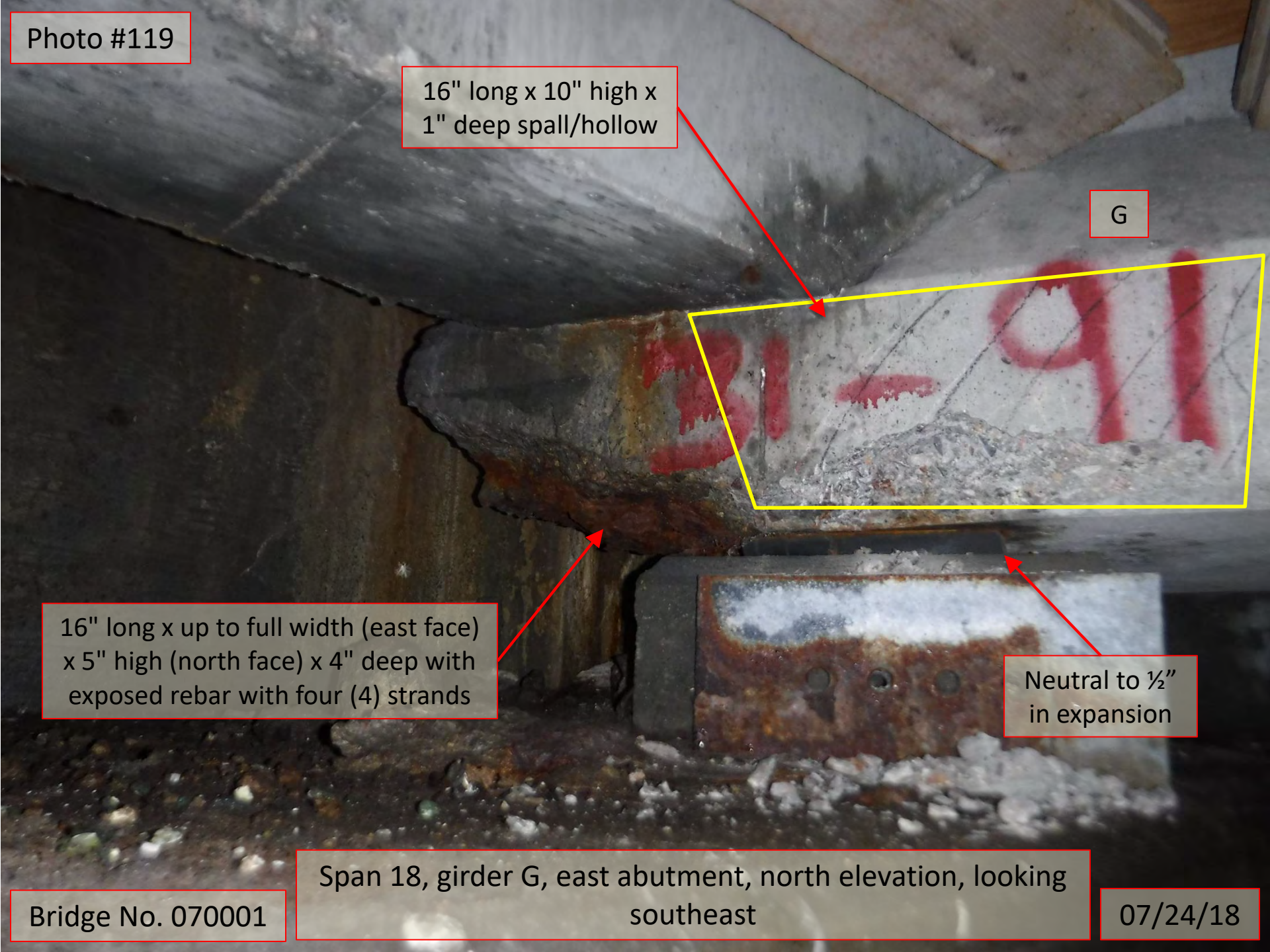
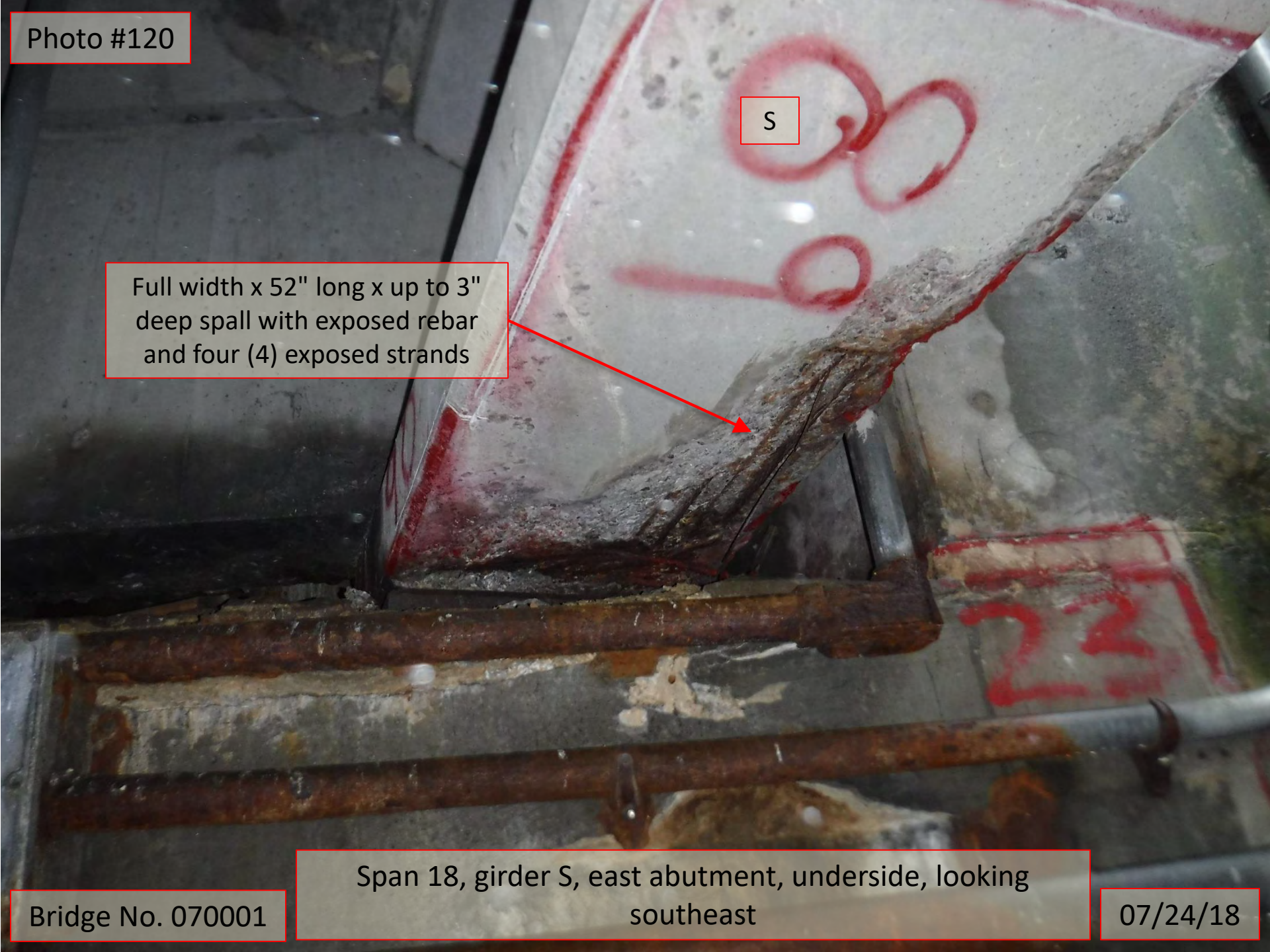
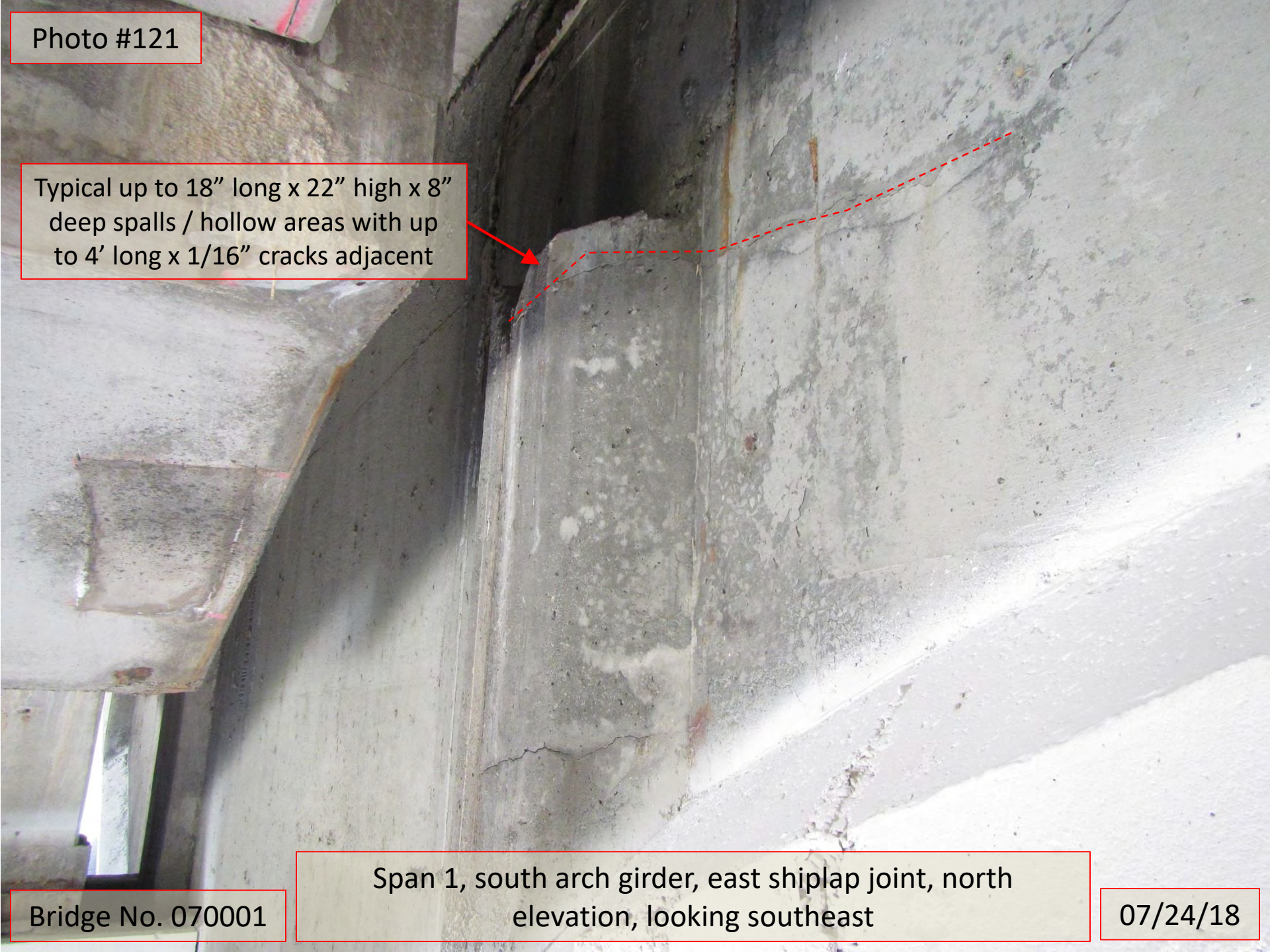

Photo #116
O
Partially patched full width x 14” long x 1” deep spall / hollow area with one (1) exposed rebar
Neutral to ½” in expansion
Pedestal spall undermines bearing for 1' long x 1.5" deep (±11% loss of bearing)
Bridge No. 070001
Span 17, girder O, pier 17, underside, looking southeast
07/24/18

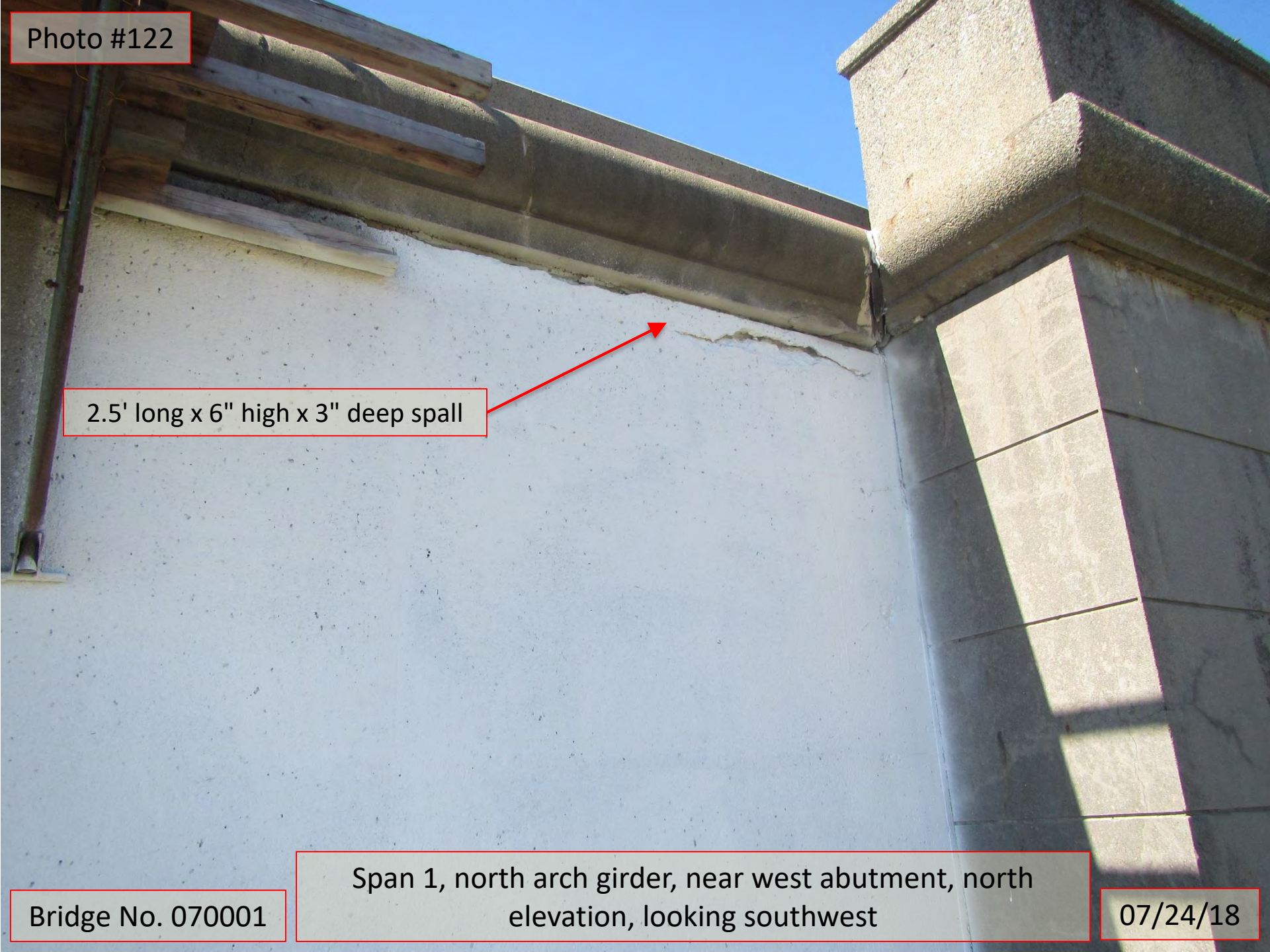

Photo #117
B
C
D
E
F
G
H
I
Bridge No. 070001
Span 18, typical underside of deck, looking southeast
07/24/18

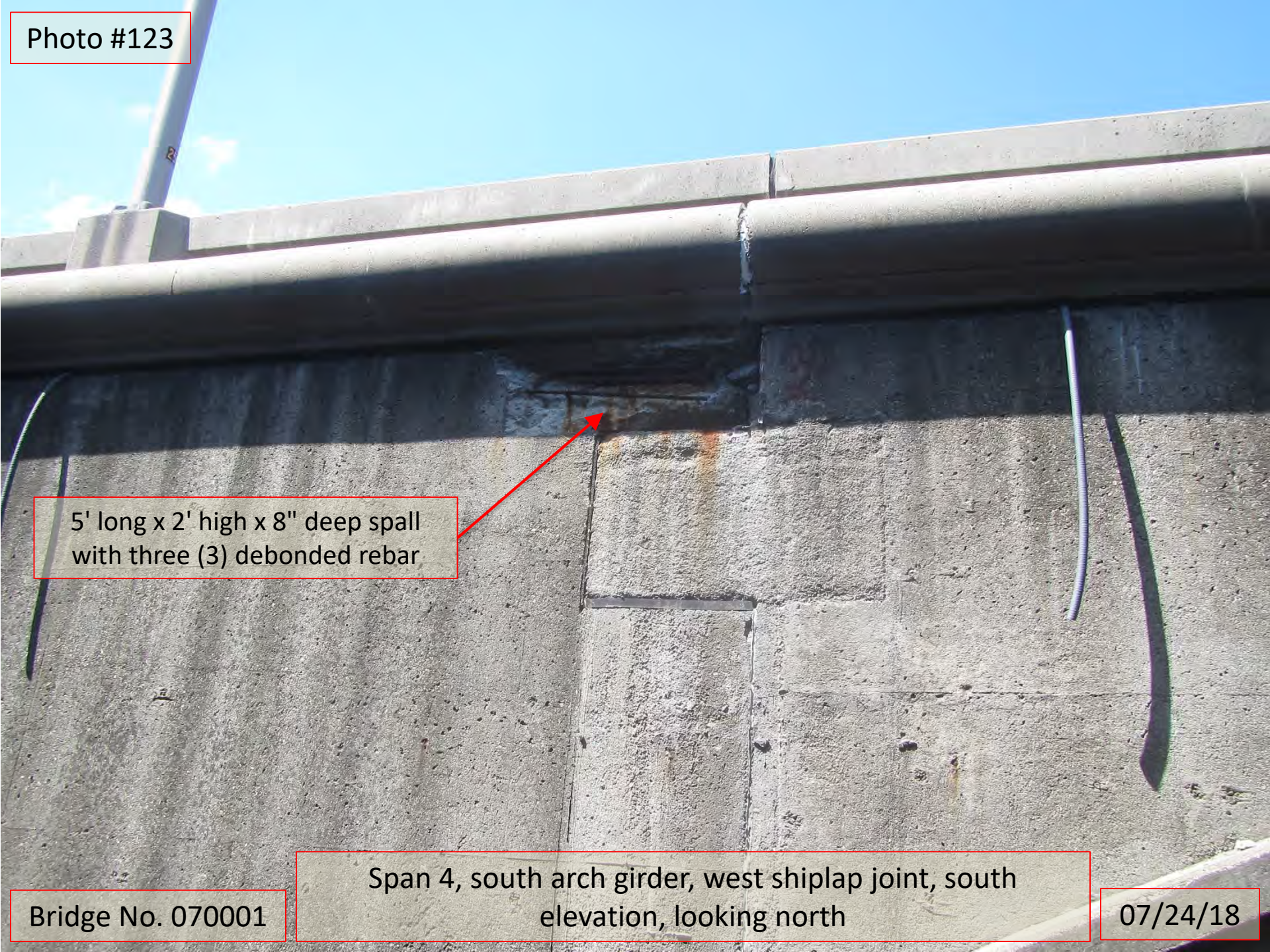

Photo #118
H
Concrete patch
Neutral to ½”
in expansion
Full width x 7"
high x 9" deep
pedestal spall
Bridge No. 070001
Span 18, girder H, pier 17, south elevation, looking north
07/24/18

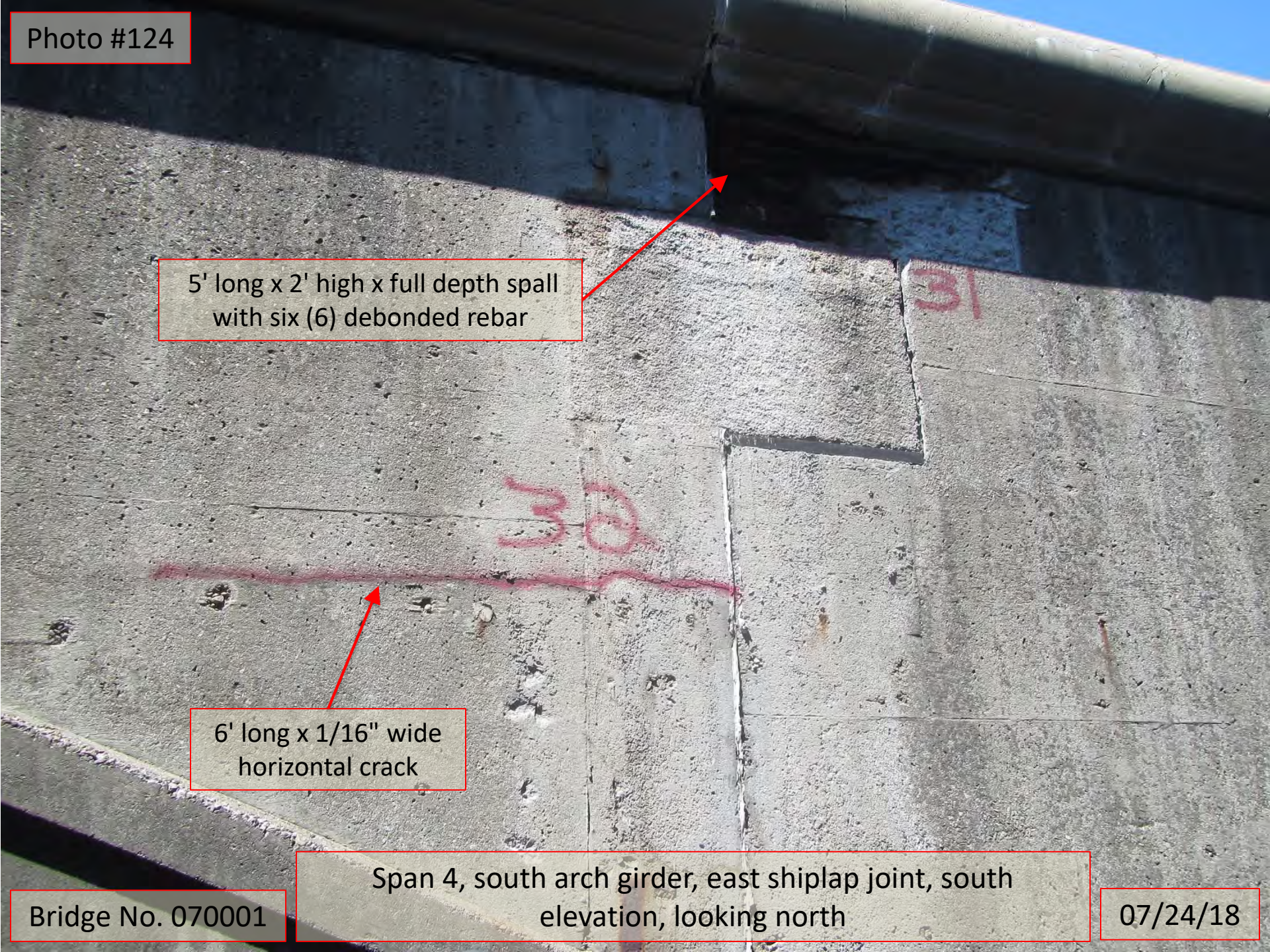

Photo #119
16" long x 10" high x 1" deep spall/hollow
G
16" long x up to full width (east face) x 5" high (north face) x 4" deep with exposed rebar with four (4) strands
Neutral to ½" in expansion
Span 18, girder G, east abutment, north elevation, looking southeast
Bridge No. 070001
07/24/18

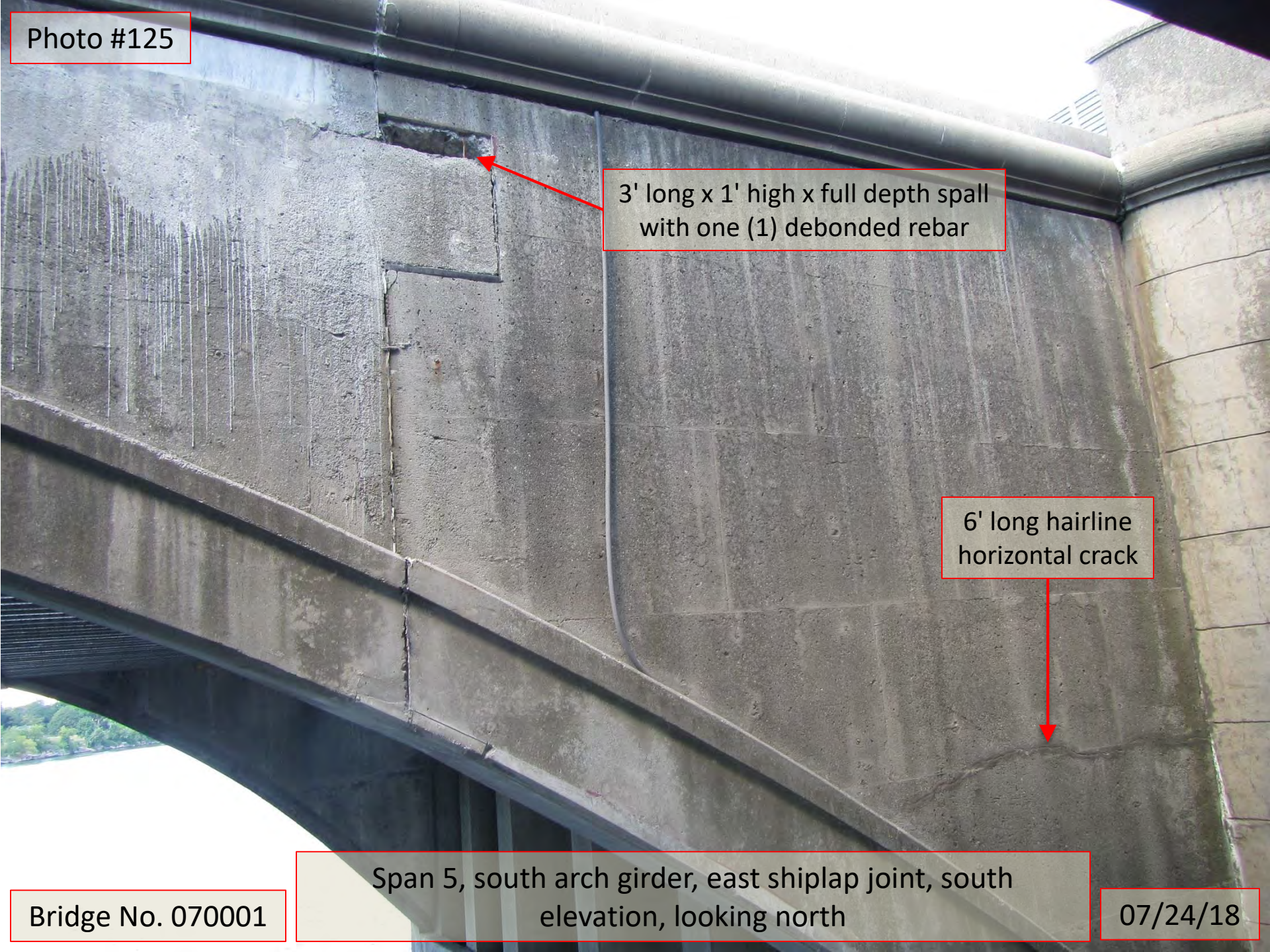

Photo #120
S
Full width x 52" long x up to 3" deep spall with exposed rebar and four (4) exposed strands
Span 18, girder S, east abutment, underside, looking southeast
Bridge No. 070001
07/24/18


Photo #121
Typical up to 18” long x 22” high x 8” deep spalls / hollow areas with up to 4’ long x 1/16” cracks adjacent
Bridge No. 070001
Span 1, south arch girder, east shiplap joint, north elevation, looking southeast
07/24/18


Photo #122
2.5' long x 6" high x 3" deep spall
Bridge No. 070001
Span 1, north arch girder, near west abutment, north elevation, looking southwest
07/24/18


Photo #123
5' long x 2' high x 8" deep spall with three (3) debonded rebar
Bridge No. 070001
Span 4, south arch girder, west shiplap joint, south elevation, looking north
07/24/18


Photo #124
5' long x 2' high x full depth spall with six (6) debonded rebar
31
32
6' long x 1/16" wide horizontal crack
Bridge No. 070001
Span 4, south arch girder, east shiplap joint, south elevation, looking north
07/24/18


Photo #125
3' long x 1' high x full depth spall with one (1) debonded rebar
6' long hairline horizontal crack
Bridge No. 070001
Span 5, south arch girder, east shiplap joint, south elevation, looking north
07/24/18

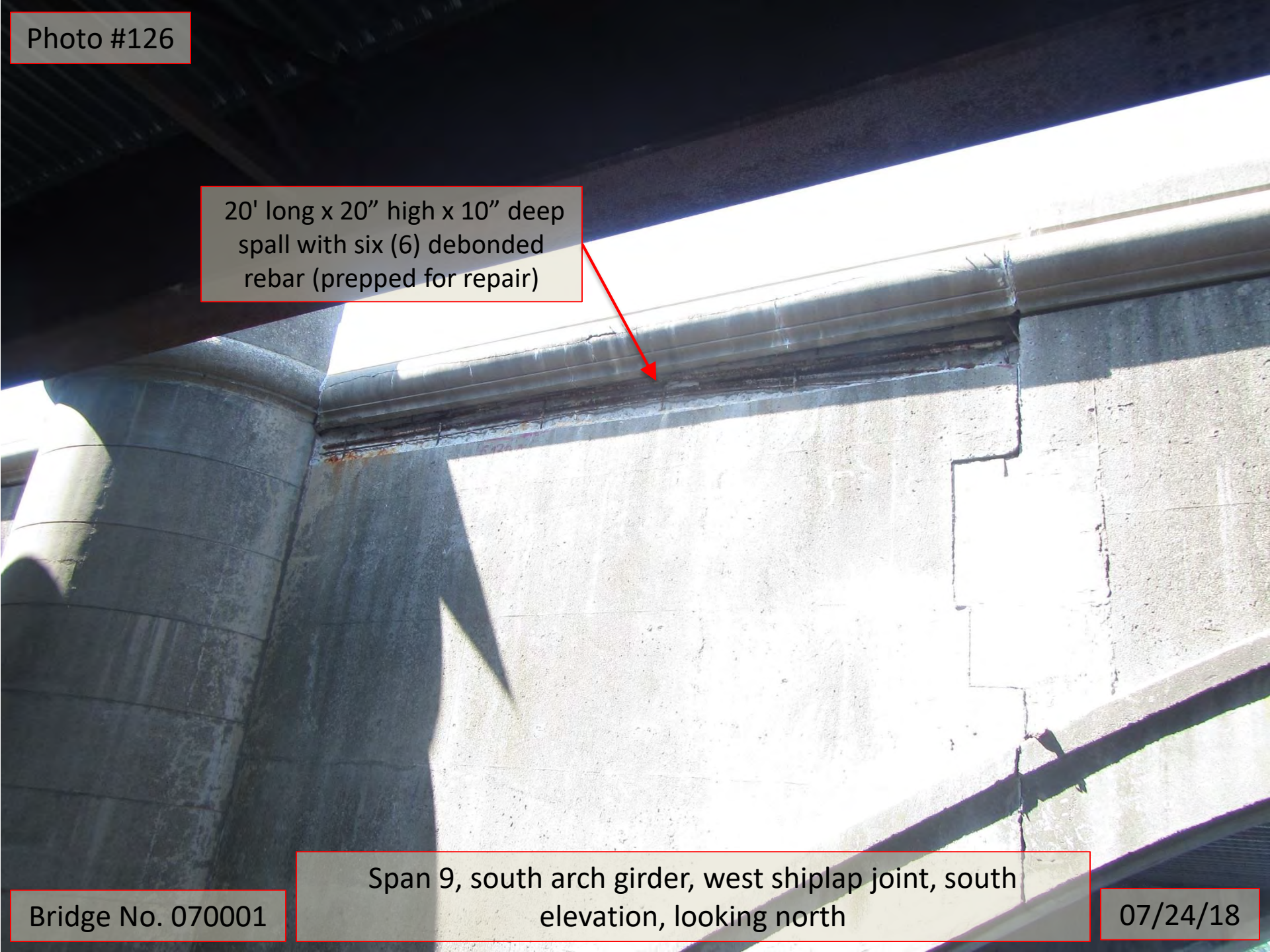
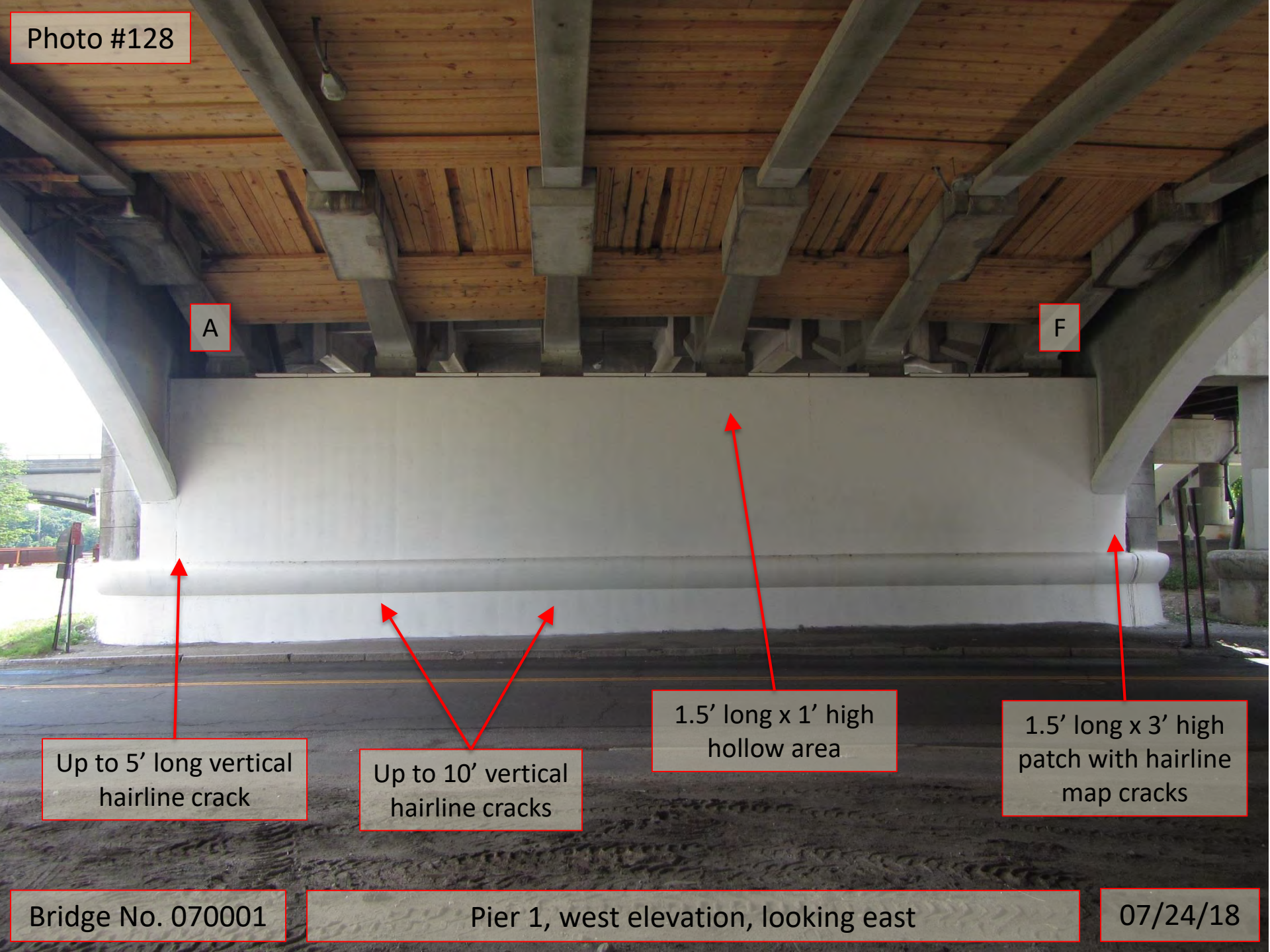
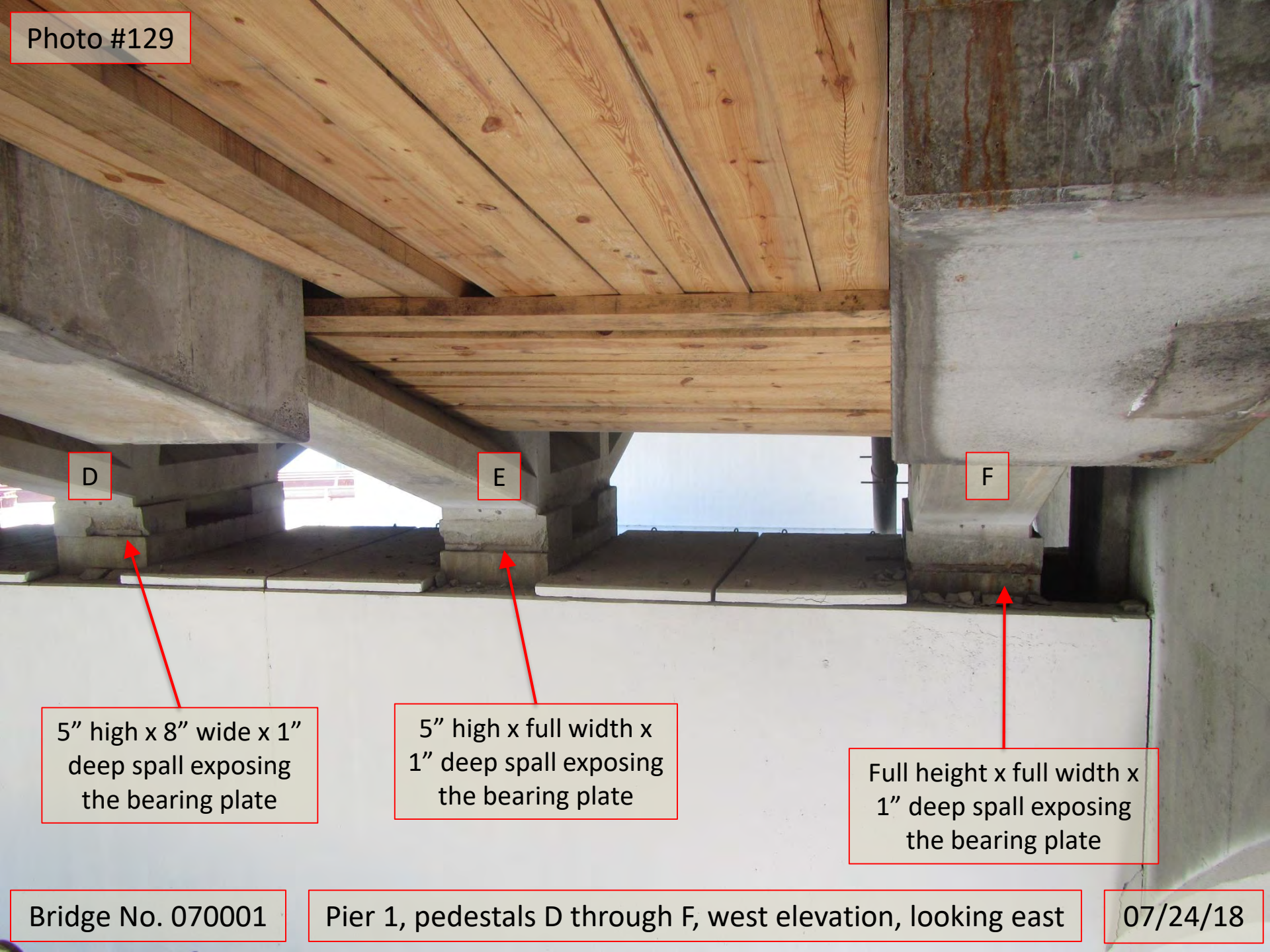
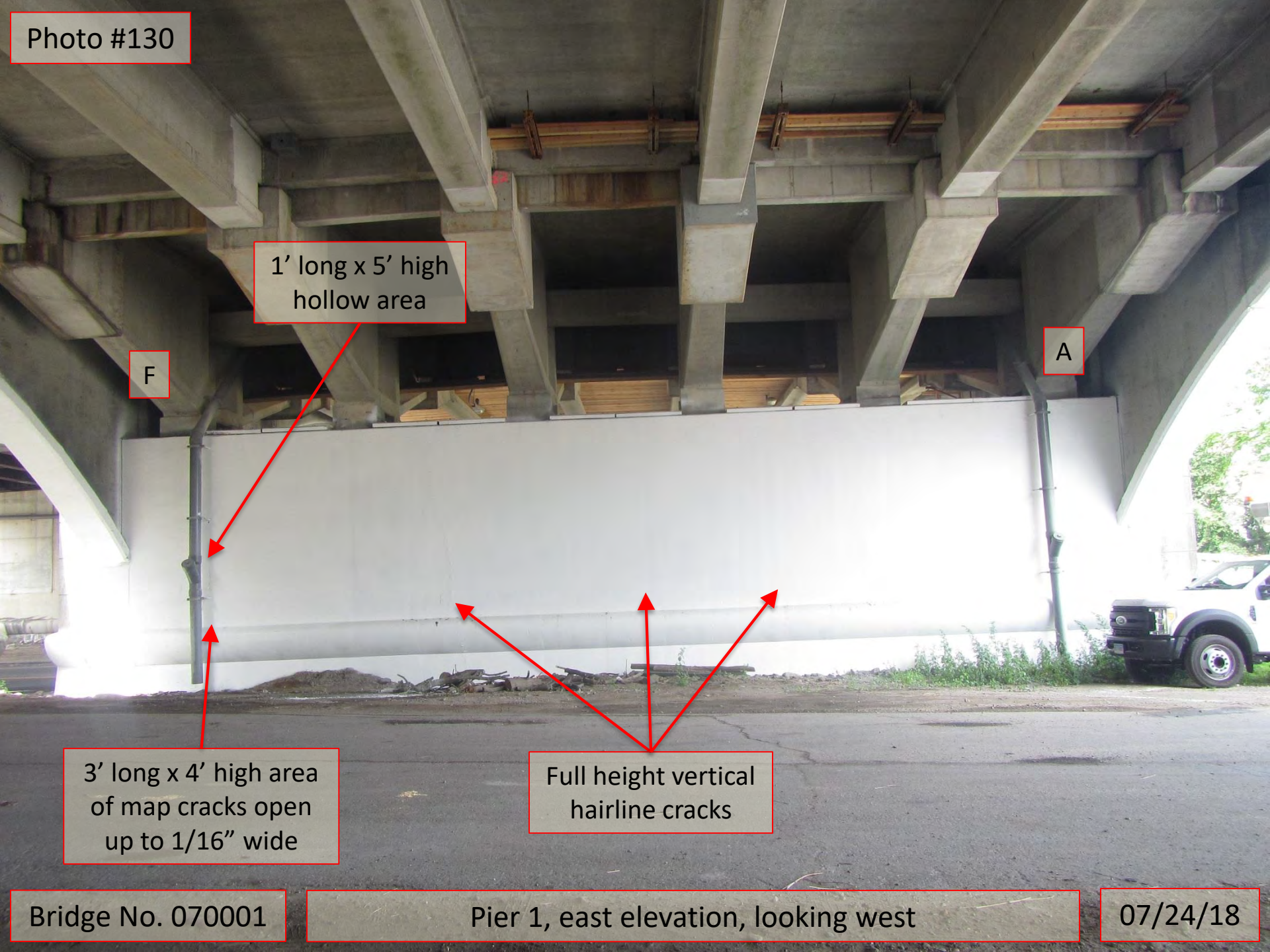
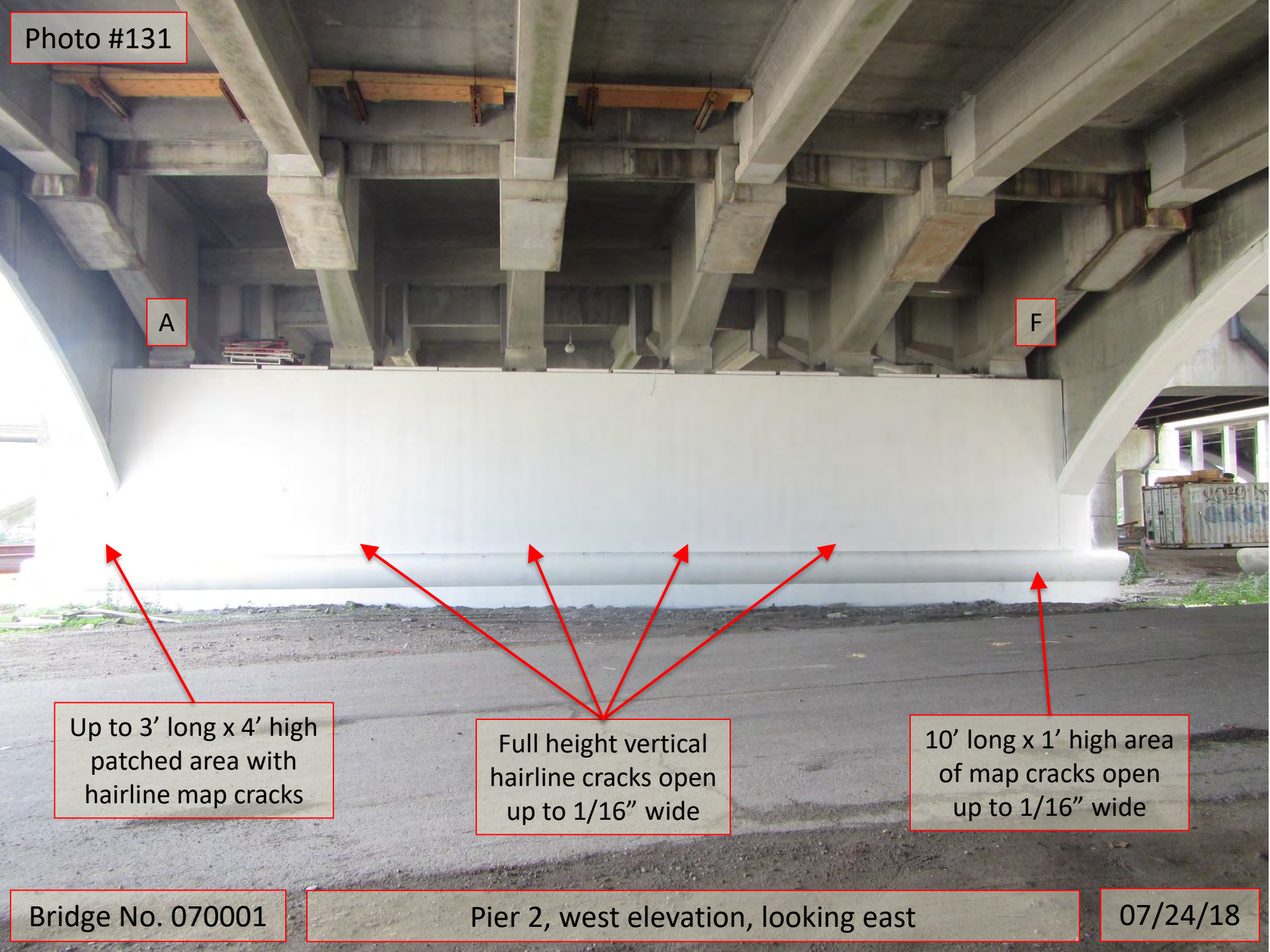

Photo #126
20' long x 20” high x 10” deep spall with six (6) debonded rebar (prepped for repair)
Span 9, south arch girder, west shiplap joint, south elevation, looking north
Bridge No. 070001
07/24/18


Photo #127
120" long x 12" wide x up to 1/2" deep spall/hollow area with cracks
Span 12, south arch girder, east shiplap joint, underside, looking east
Bridge No. 070001
07/24/18


Photo #128
A
F
Up to 5’ long vertical hairline crack
Up to 10’ vertical hairline cracks
1.5’ long x 1’ high hollow area
1.5’ long x 3’ high patch with hairline map cracks
Bridge No. 070001
Pier 1, west elevation, looking east
07/24/18


Photo #129
D
E
F
5” high x 8” wide x 1” deep spall exposing the bearing plate
5” high x full width x 1” deep spall exposing the bearing plate
Full height x full width x 1” deep spall exposing the bearing plate
Bridge No. 070001
Pier 1, pedestals D through F, west elevation, looking east
07/24/18


Photo #130
1’ long x 5’ high hollow area
F
A
3’ long x 4’ high area of map cracks open up to 1/16” wide
Full height vertical hairline cracks
Bridge No. 070001
Pier 1, east elevation, looking west
07/24/18


Photo #131
A
F
Up to 3’ long x 4’ high patched area with hairline map cracks
Full height vertical hairline cracks open up to 1/16” wide
10’ long x 1’ high area of map cracks open up to 1/16” wide
Bridge No. 070001
Pier 2, west elevation, looking east
07/24/18

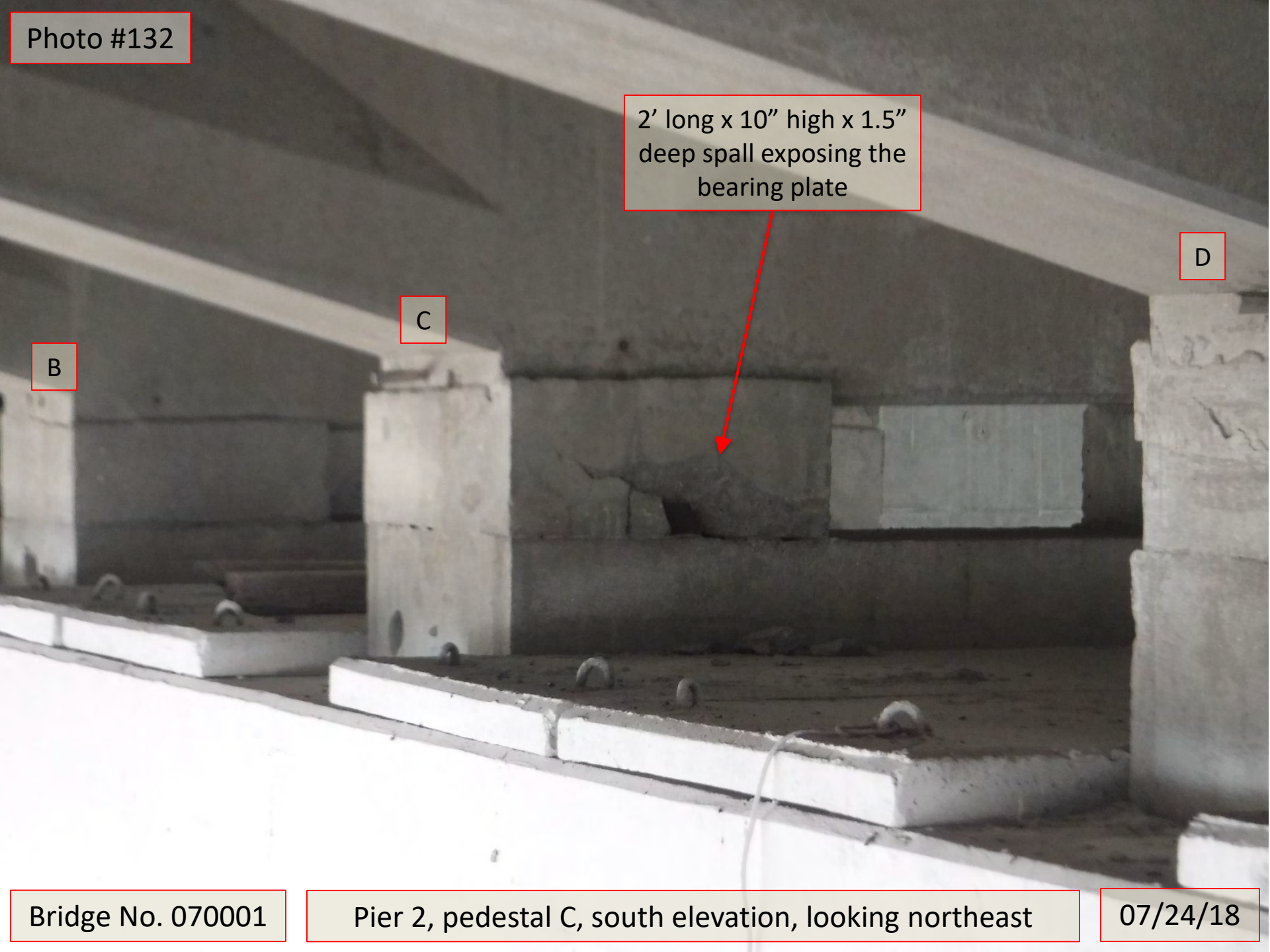

Photo #132
2’ long x 10” high x 1.5” deep spall exposing the bearing plate
D
C
B
Bridge No. 070001
Pier 2, pedestal C, south elevation, looking northeast
07/24/18


Photo #133
A
F
4’ vertical crack open up to 3/8” wide
Bridge No. 070001
Pier 2, east elevation, looking west
07/24/18

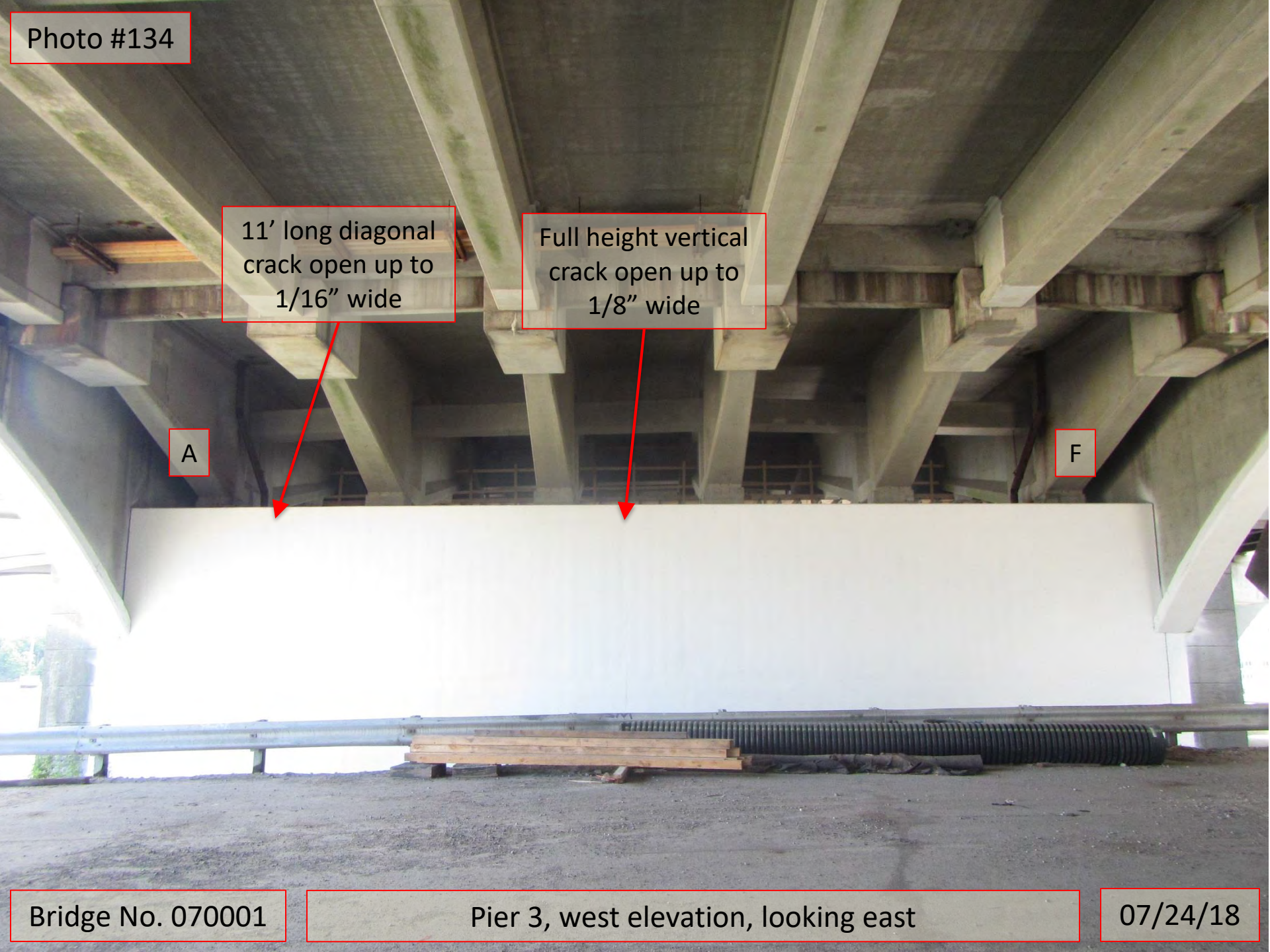
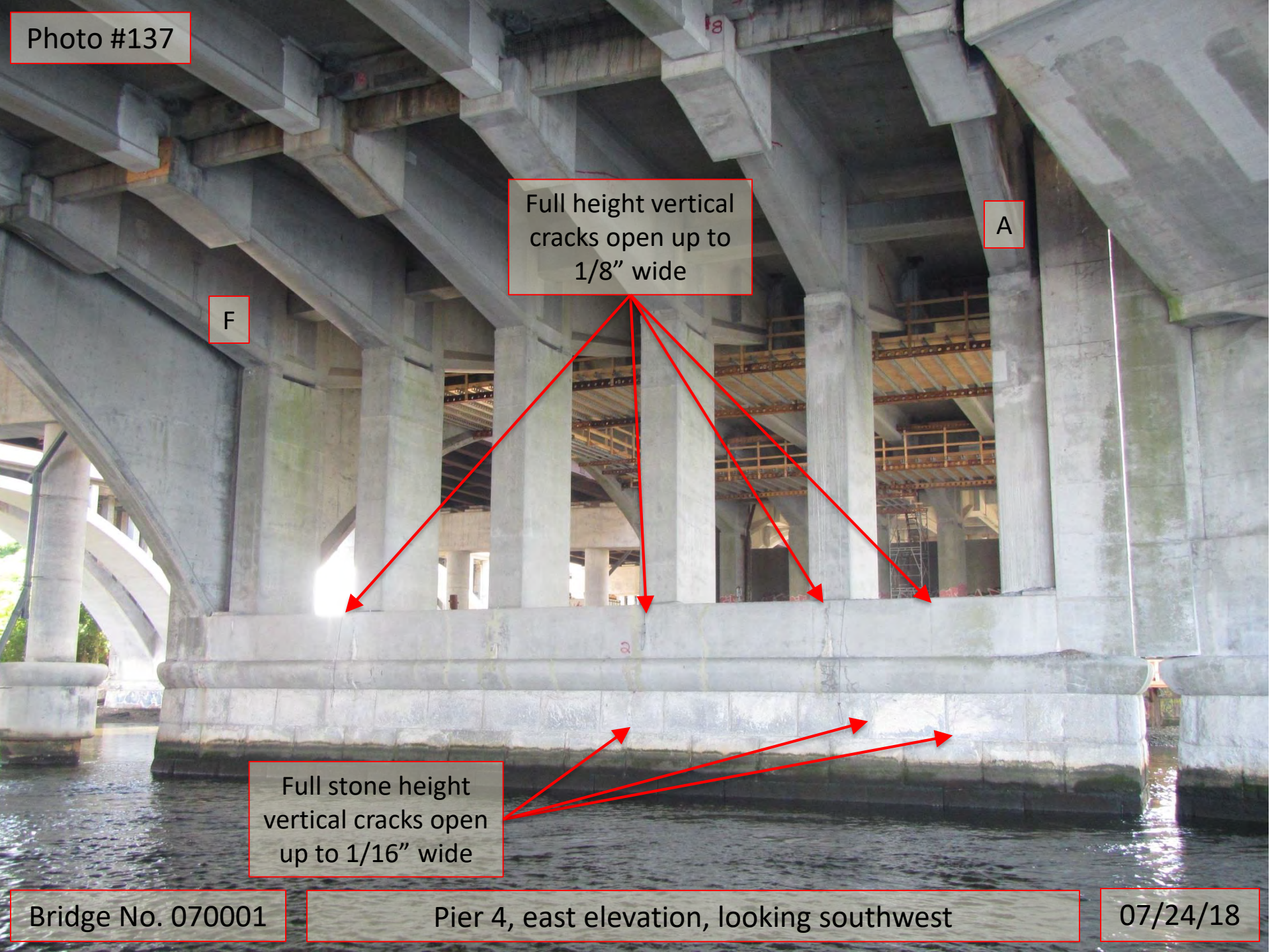
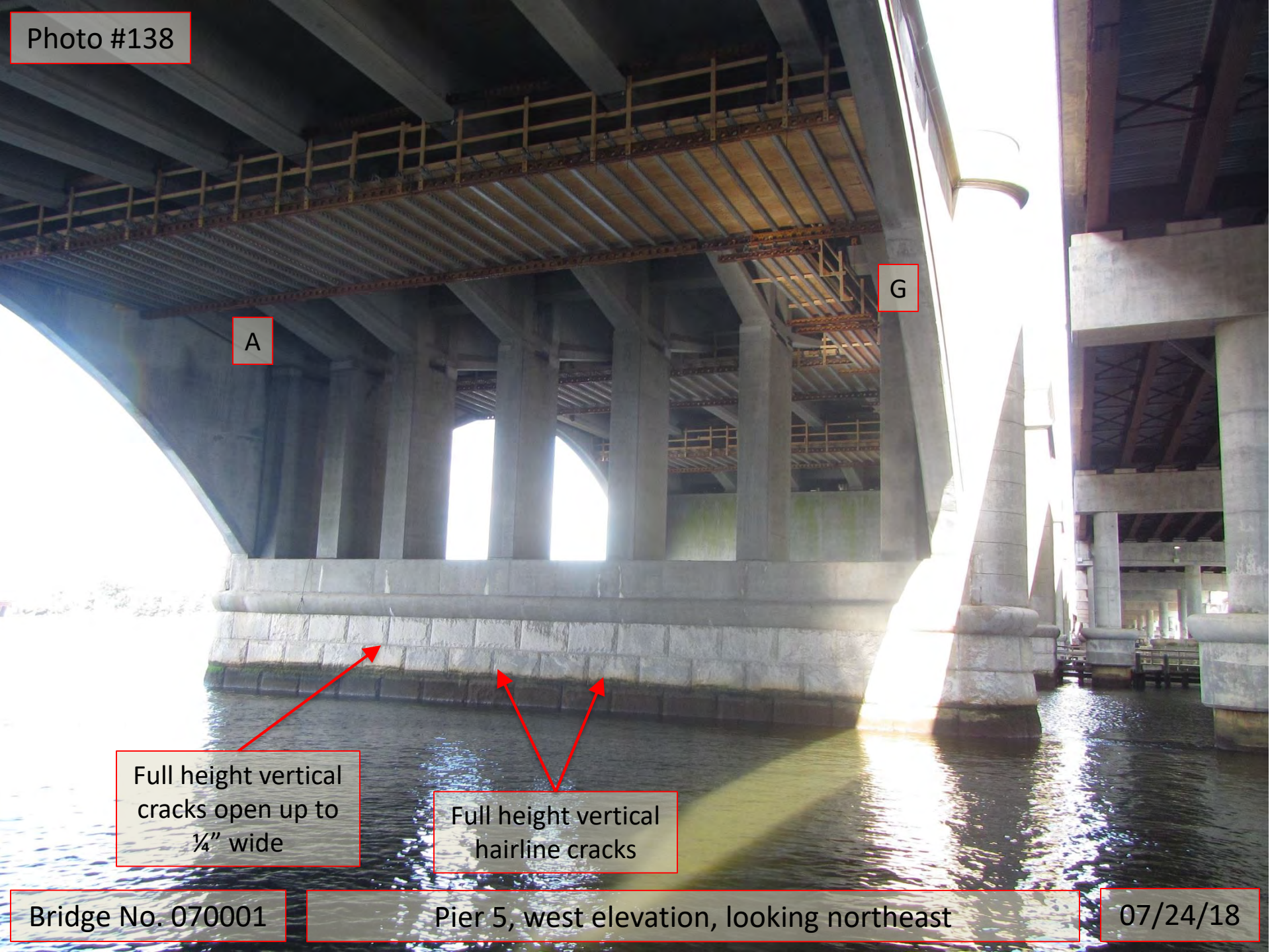
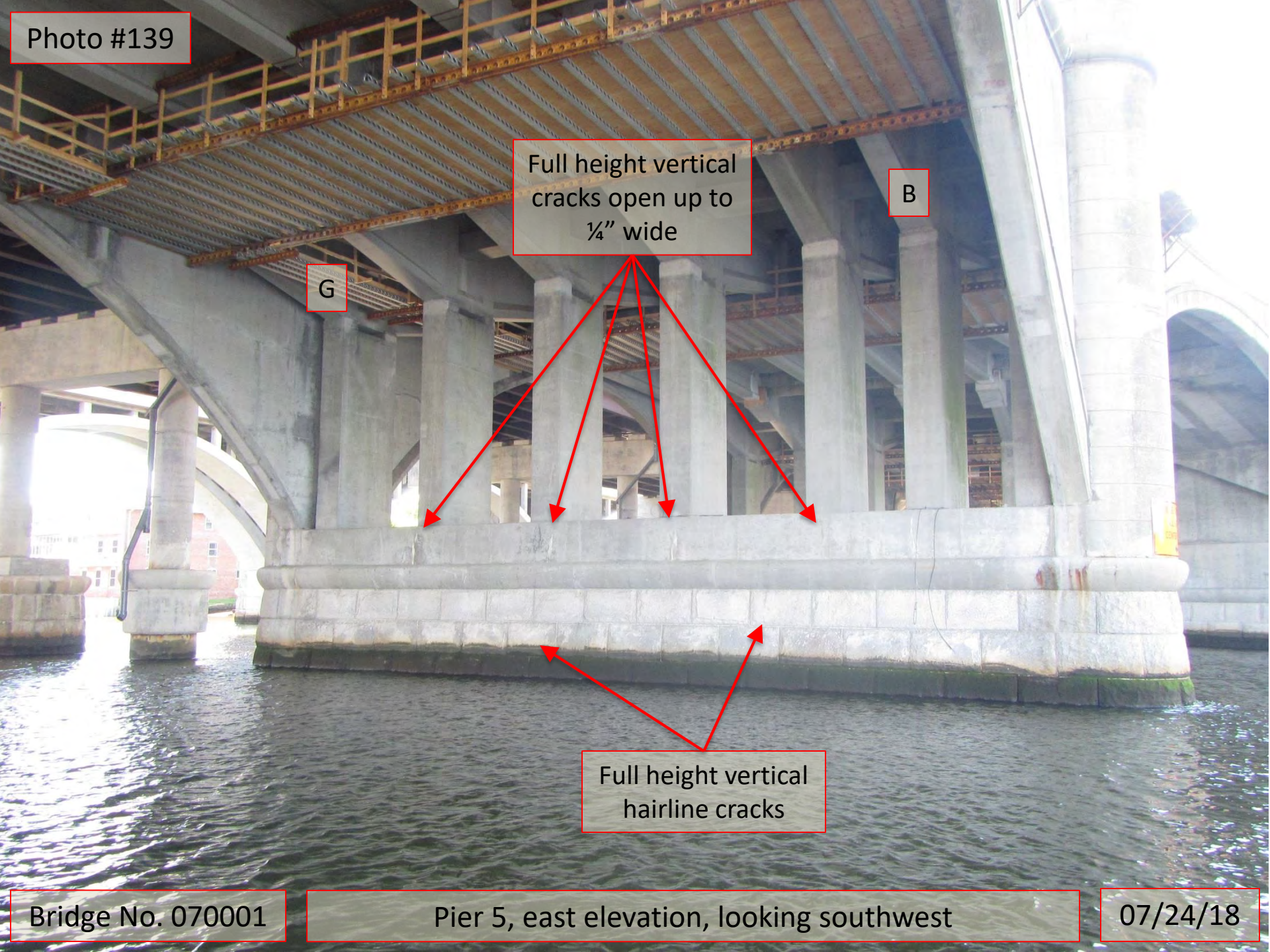

Photo #134
11’ long diagonal crack open up to 1/16” wide
Full height vertical crack open up to 1/8” wide
A
F
Bridge No. 070001
Pier 3, west elevation, looking east
07/24/18

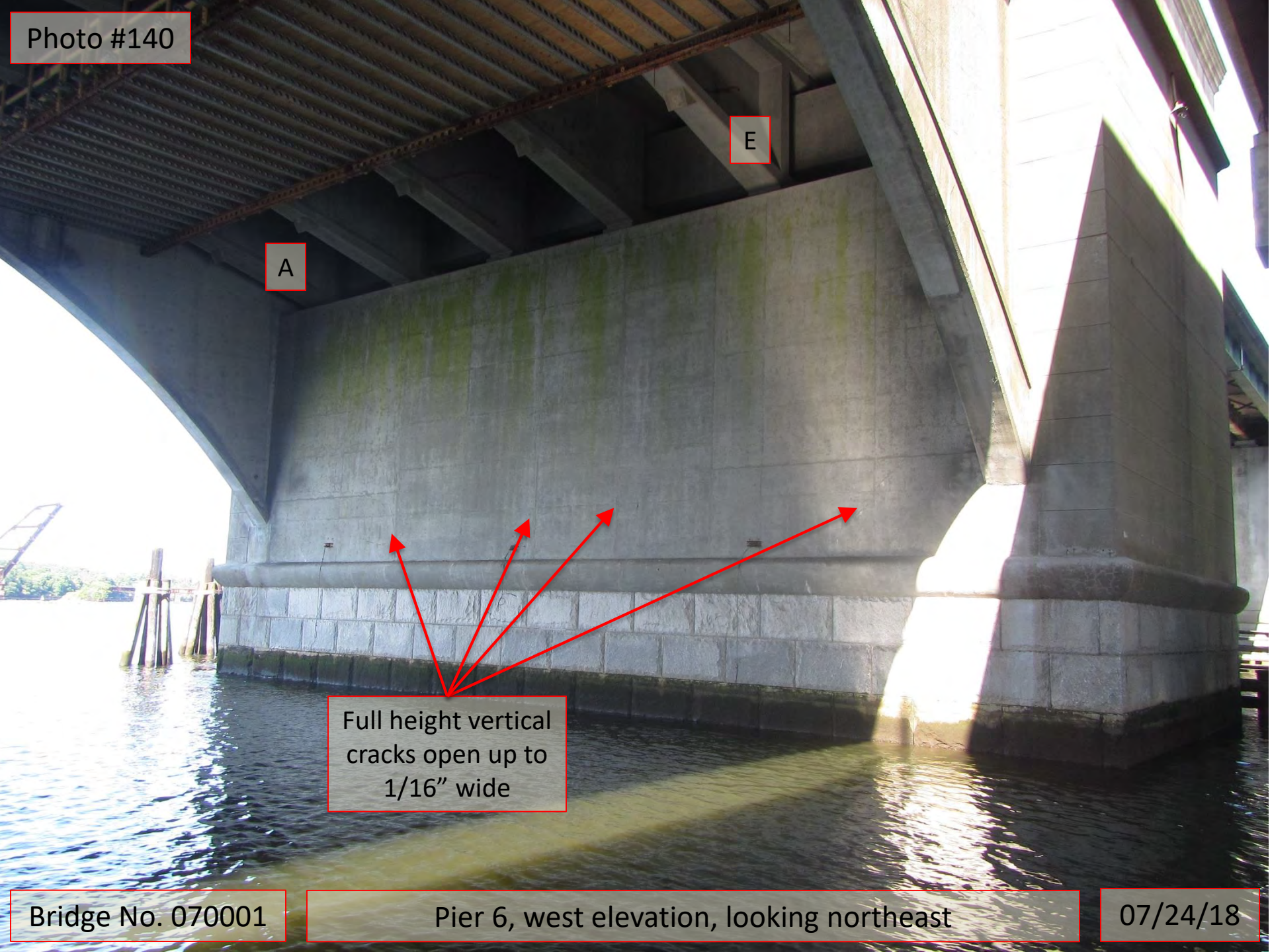

Photo #135
A
F
6' long x up to 3/8" wide vertical crack extending full height to top course of masonry block
Bridge No. 070001
Pier 3, east elevation, looking southwest
07/24/18

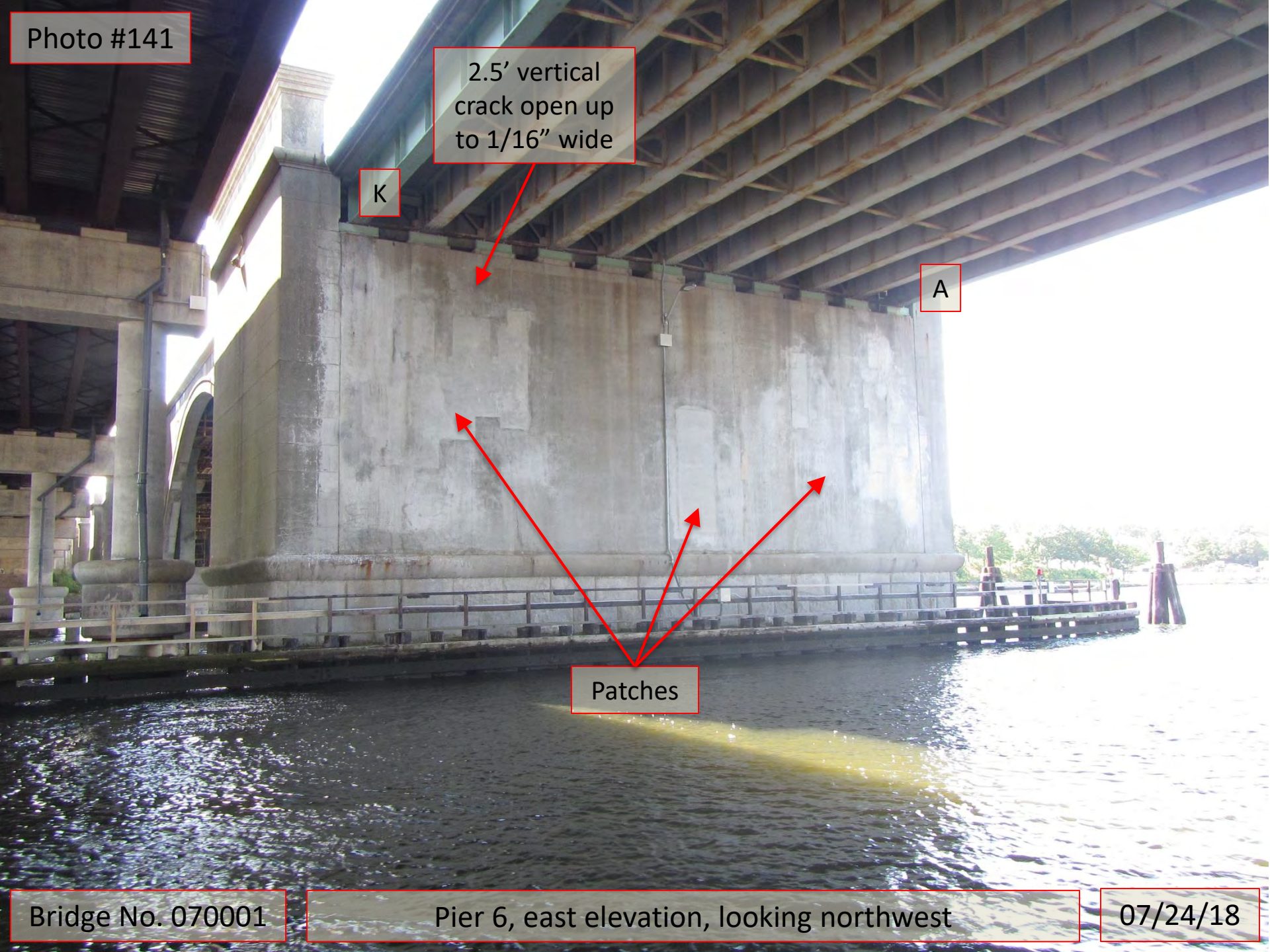

Photo #136
Full height vertical cracks open up to 1/8” wide
A
F
Genie
Bridge No. 070001
Pier 4, west elevation, looking east
07/24/18


Photo #137
Full height vertical cracks open up to 1/8” wide
A
F
Full stone height vertical cracks open up to 1/16” wide
Bridge No. 070001
Pier 4, east elevation, looking southwest
07/24/18


Photo #138
G
A
Full height vertical cracks open up to ¼” wide
Full height vertical hairline cracks
Bridge No. 070001
Pier 5, west elevation, looking northeast
07/24/18


Photo #139
Full height vertical cracks open up to ¼” wide
B
G
Full height vertical hairline cracks
Bridge No. 070001
Pier 5, east elevation, looking southwest
07/24/18


Photo #140
E
A
Full height vertical cracks open up to 1/16” wide
Bridge No. 070001
Pier 6, west elevation, looking northeast
07/24/18


Photo #141
2.5’ vertical crack open up to 1/16” wide
K
A
Patches
Bridge No. 070001
Pier 6, east elevation, looking northwest
07/24/18

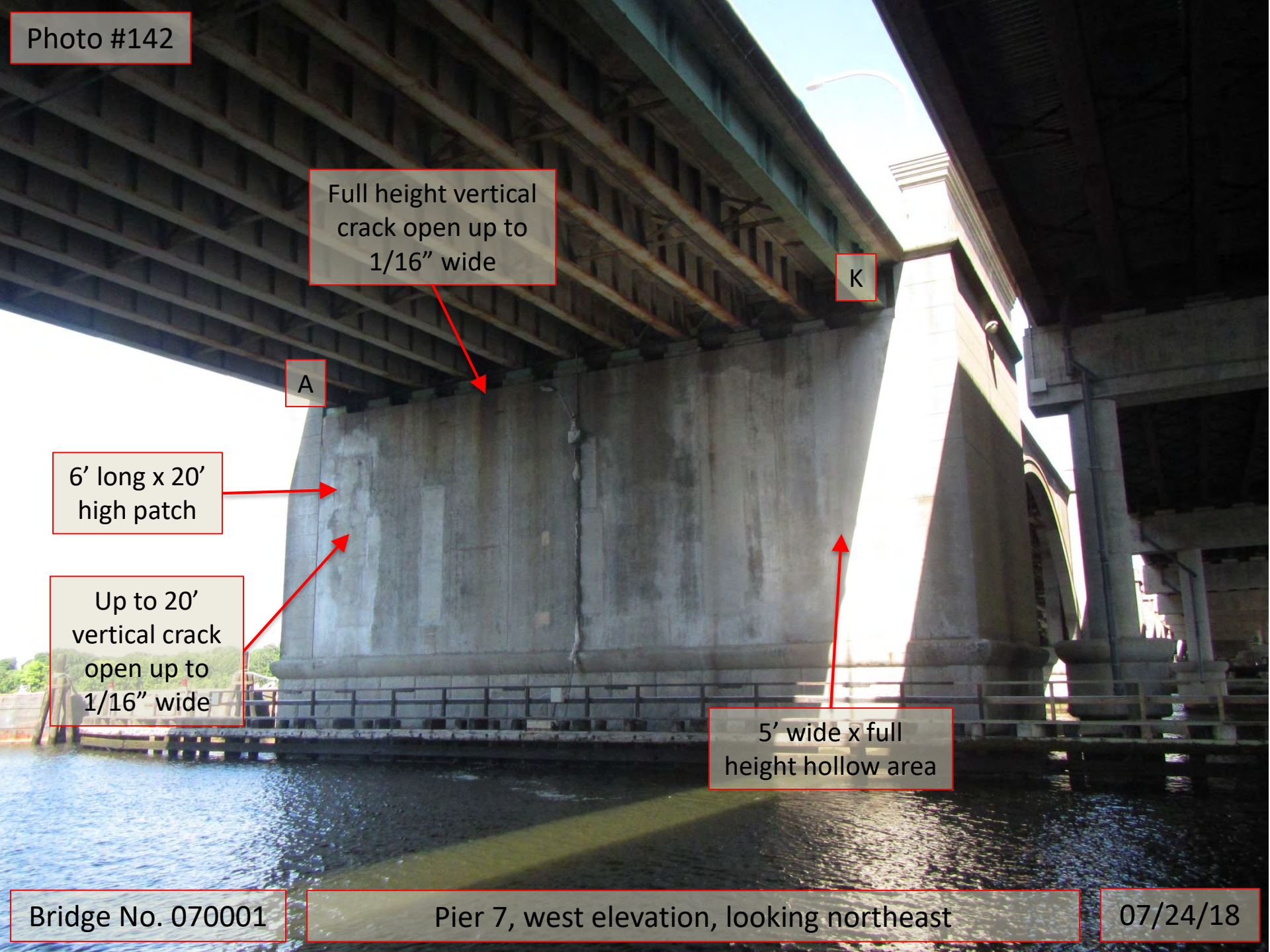
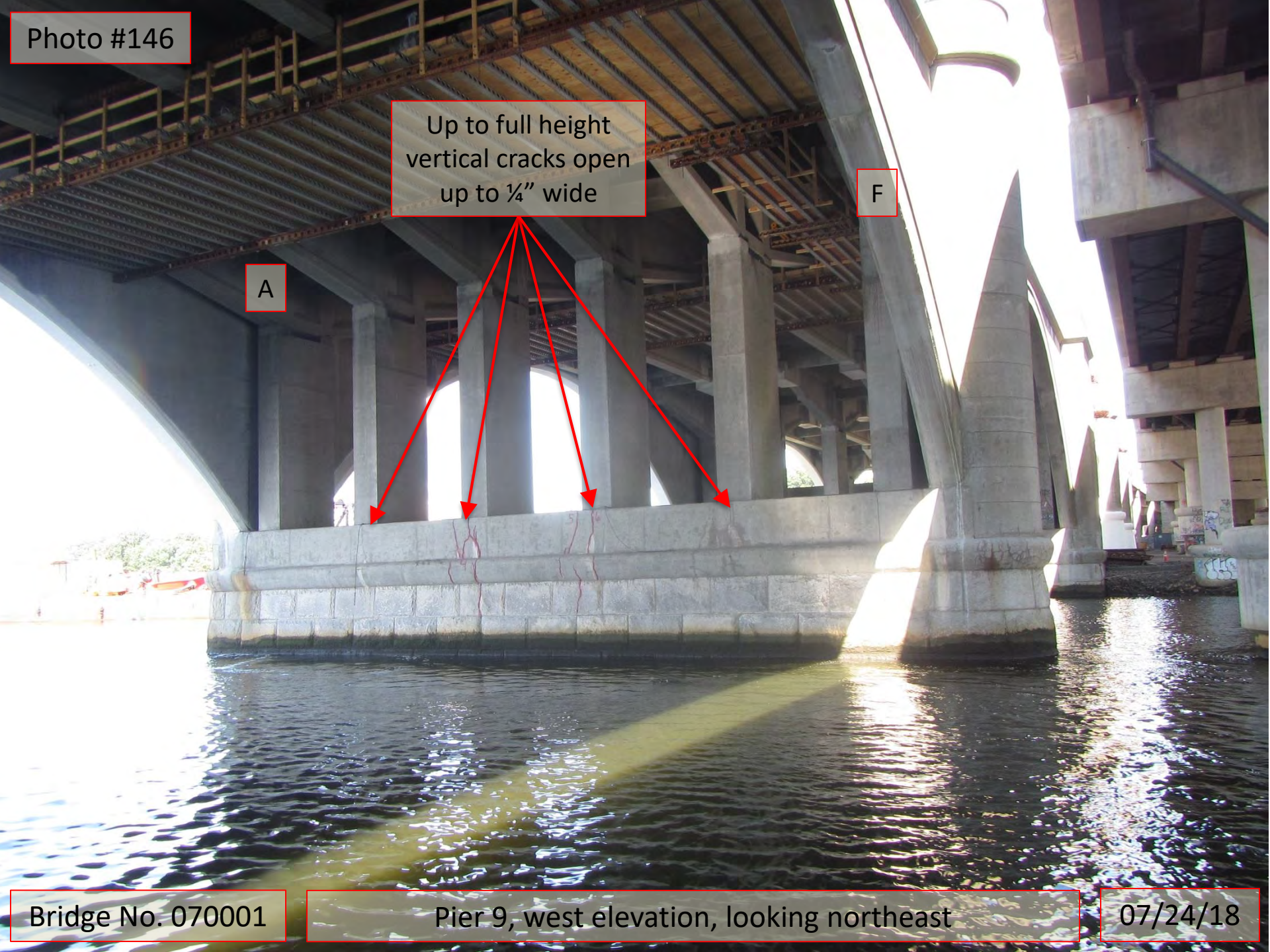
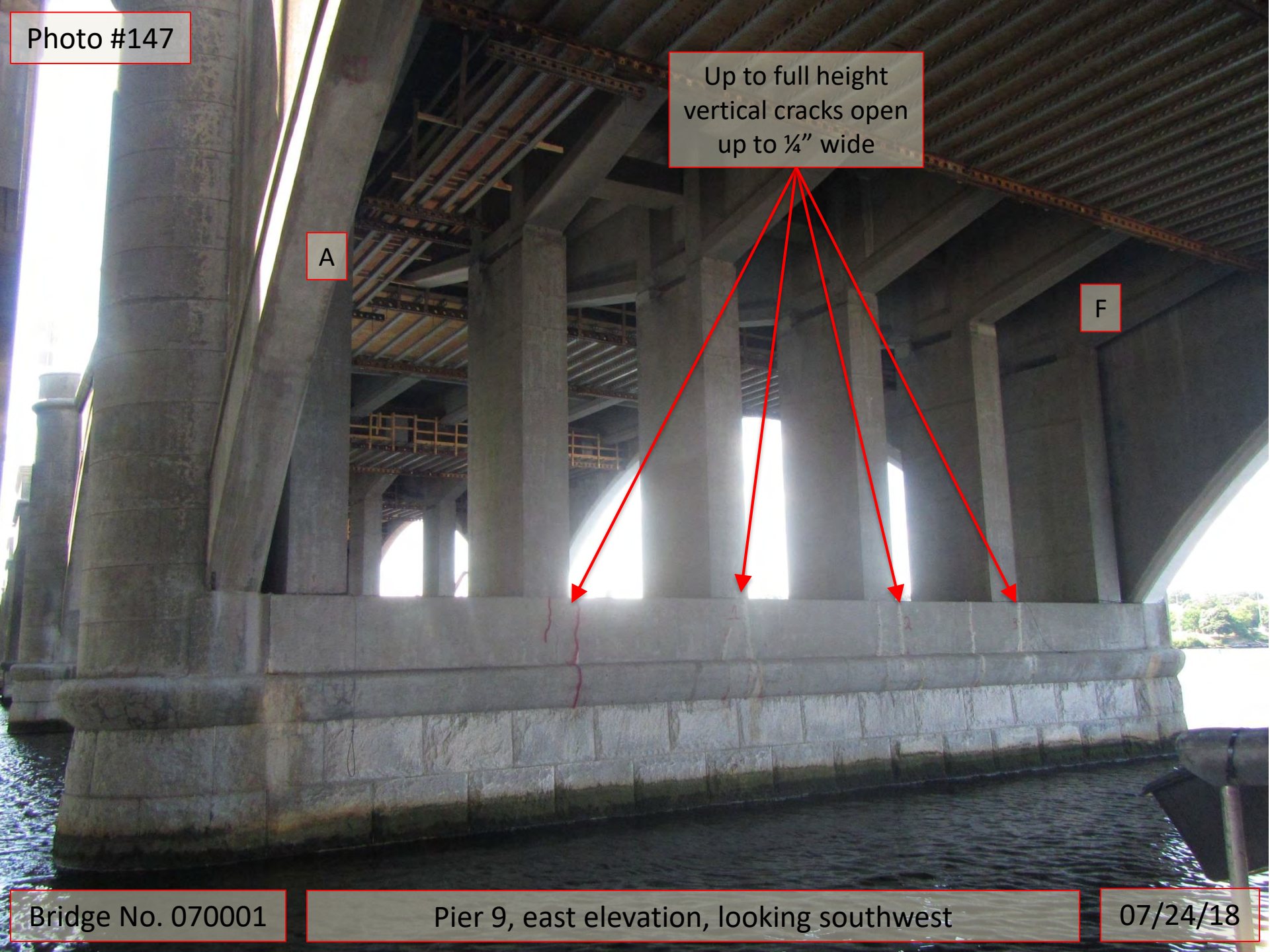

Photo #142
Full height vertical crack open up to 1/16” wide
K
A
6’ long x 20’ high patch
Up to 20’ vertical crack open up to 1/16” wide
5’ wide x full height hollow area
Bridge No. 070001
Pier 7, west elevation, looking northeast
07/24/18


Photo #143
A
F
17.5’ long crack open up to 1/16” wide with efflorescence
WB-5
B
Bridge No. 070001
Pier 7, east elevation, looking southwest
07/24/18


Photo #144
Full height vertical cracks open up to 1/8” wide
F
A
Bridge No. 070001
Pier 8, west elevation, looking northeast
07/24/18


Photo #145
Up to full height vertical cracks open up to 1/8” wide
A
F
Bridge No. 070001
Pier 8, east elevation, looking southwest
07/24/18


Photo #146
Up to full height vertical cracks open up to ¼" wide
A
F
Bridge No. 070001
Pier 9, west elevation, looking northeast
07/24/18


Photo #147
Up to full height vertical cracks open up to ¼" wide
A
F
Bridge No. 070001
Pier 9, east elevation, looking southwest
07/24/18

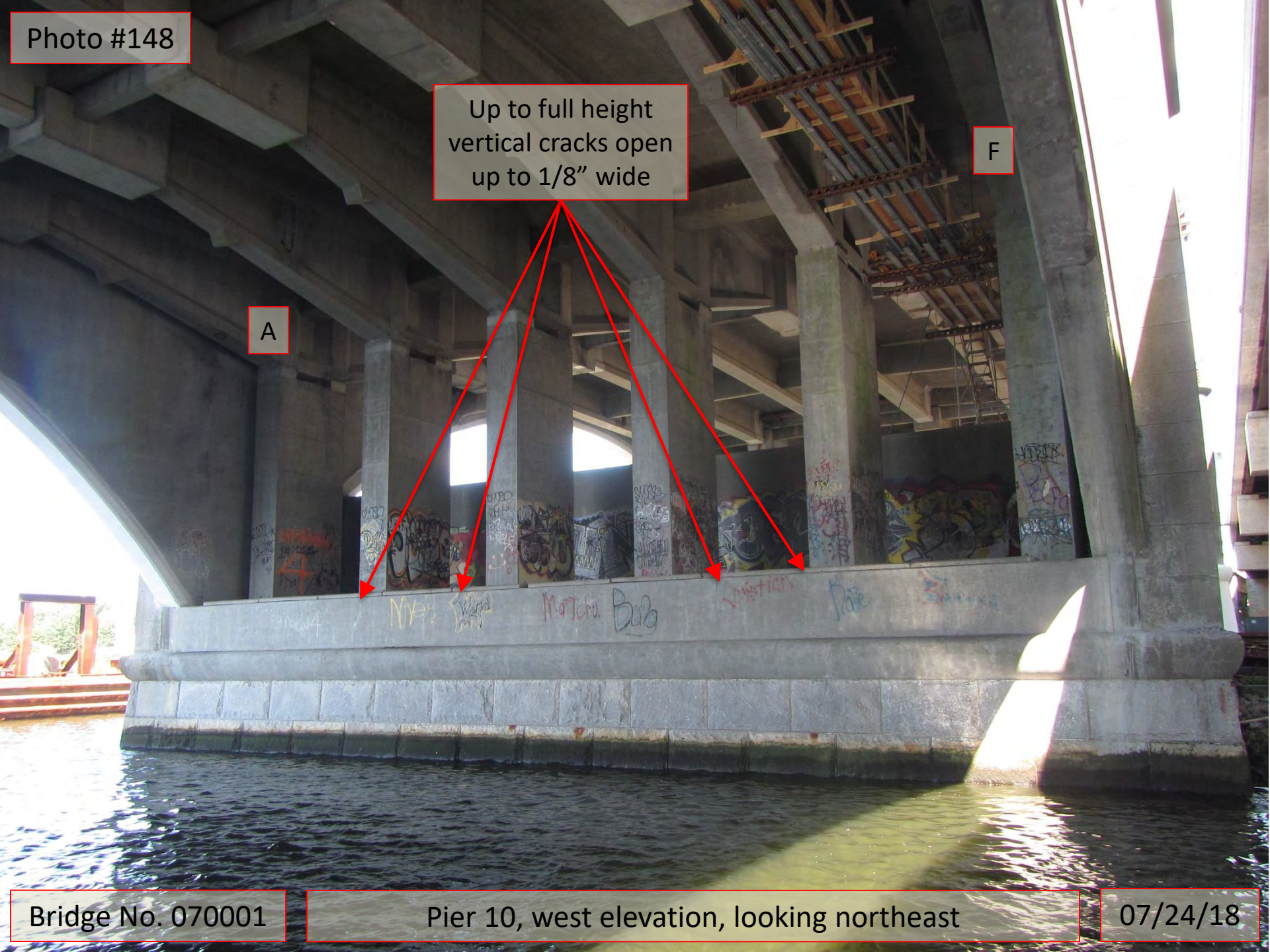

Photo #148
Up to full height vertical cracks open up to 1/8” wide
F
A
Bridge No. 070001
Pier 10, west elevation, looking northeast
07/24/18


Photo #149
A
F
Bridge No. 070001
Pier 10, east elevation, looking southwest
07/24/18

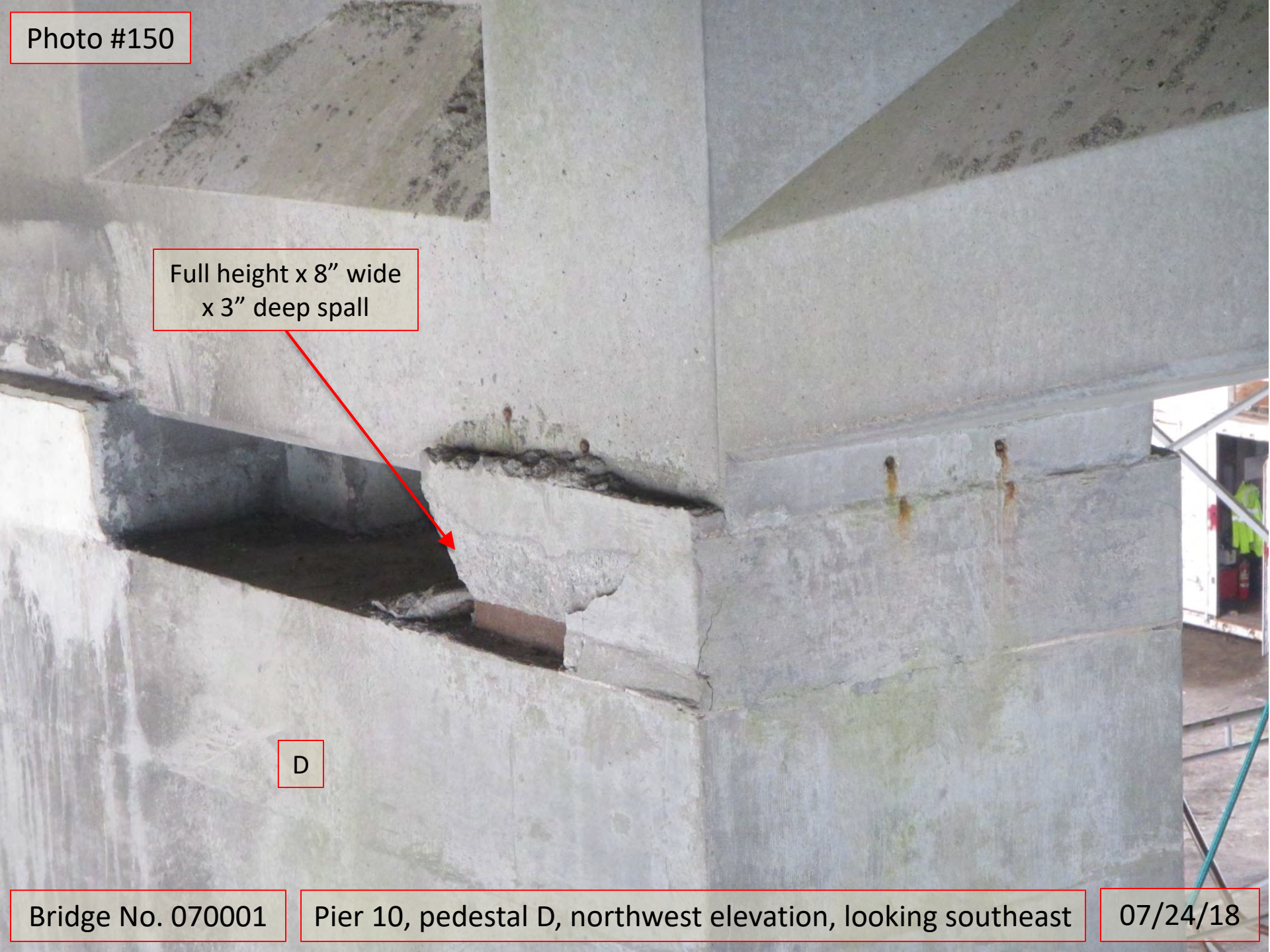

Photo #150
Full height x 8” wide
x 3” deep spall
D
Bridge No. 070001
Pier 10, pedestal D, northwest elevation, looking southeast
07/24/18


Photo #151
A
F
Bridge No. 070001
Pier 11, west elevation, looking east
07/24/18


Photo #152
Up to 6’ long vertical cracks open up to 1/8” wide
A
F
WACKER
Bridge No. 070001
Pier 11, east elevation, looking southwest
07/24/18


Photo #153
A
F
WACKER
WACKER
Bridge No. 070001
Pier 12, west elevation, looking east
07/24/18


Photo #154
F
A
9’ long x 27” high
x 1” deep spall
Bridge No. 070001
Pier 12, east elevation, looking west
07/24/18

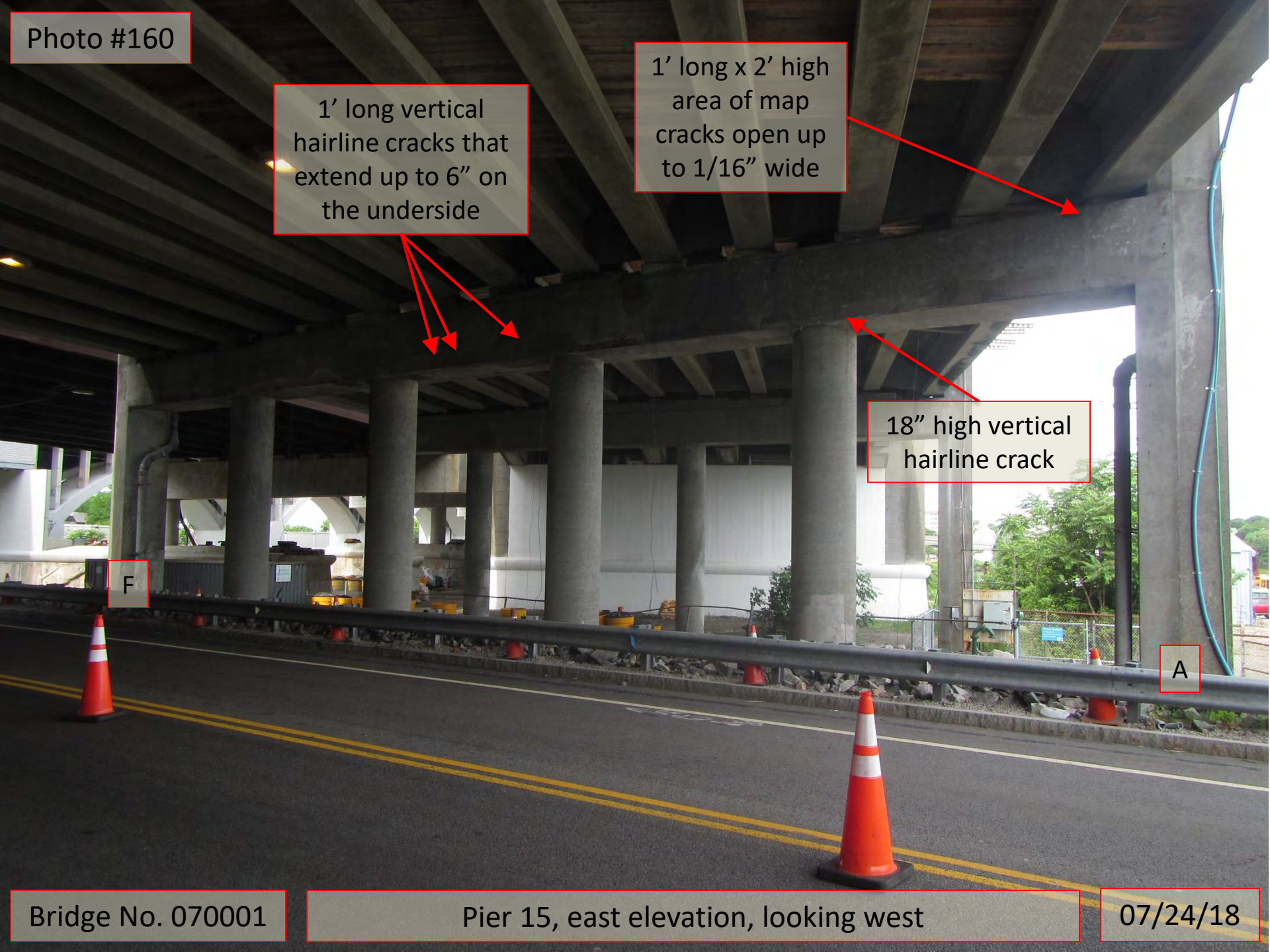

Photo #155
Up to full height vertical cracks with epoxy injection and efflorescence
A
F
Bridge No. 070001
Pier 13, west elevation, looking east
07/24/18


Photo #156
F
A
Bridge No. 070001
Pier 13, east elevation, looking northwest
07/24/18


Photo #157
A
F
Bridge No. 070001
Pier 14, west elevation, looking east
07/24/18


Photo #158
Full height vertical hairline crack that extends across cap for full width
F
A
Bridge No. 070001
Pier 14, east elevation, looking northwest
07/24/18


Photo #159
18” long x full width area of hairline map cracks
A
F
Bridge No. 070001
Pier 15, west elevation, looking northeast
07/24/18


Photo #160
1’ long vertical hairline cracks that extend up to 6” on the underside
1’ long x 2’ high area of map cracks open up to 1/16” wide
18” high vertical hairline crack
F
A
Bridge No. 070001
Pier 15, east elevation, looking west
07/24/18

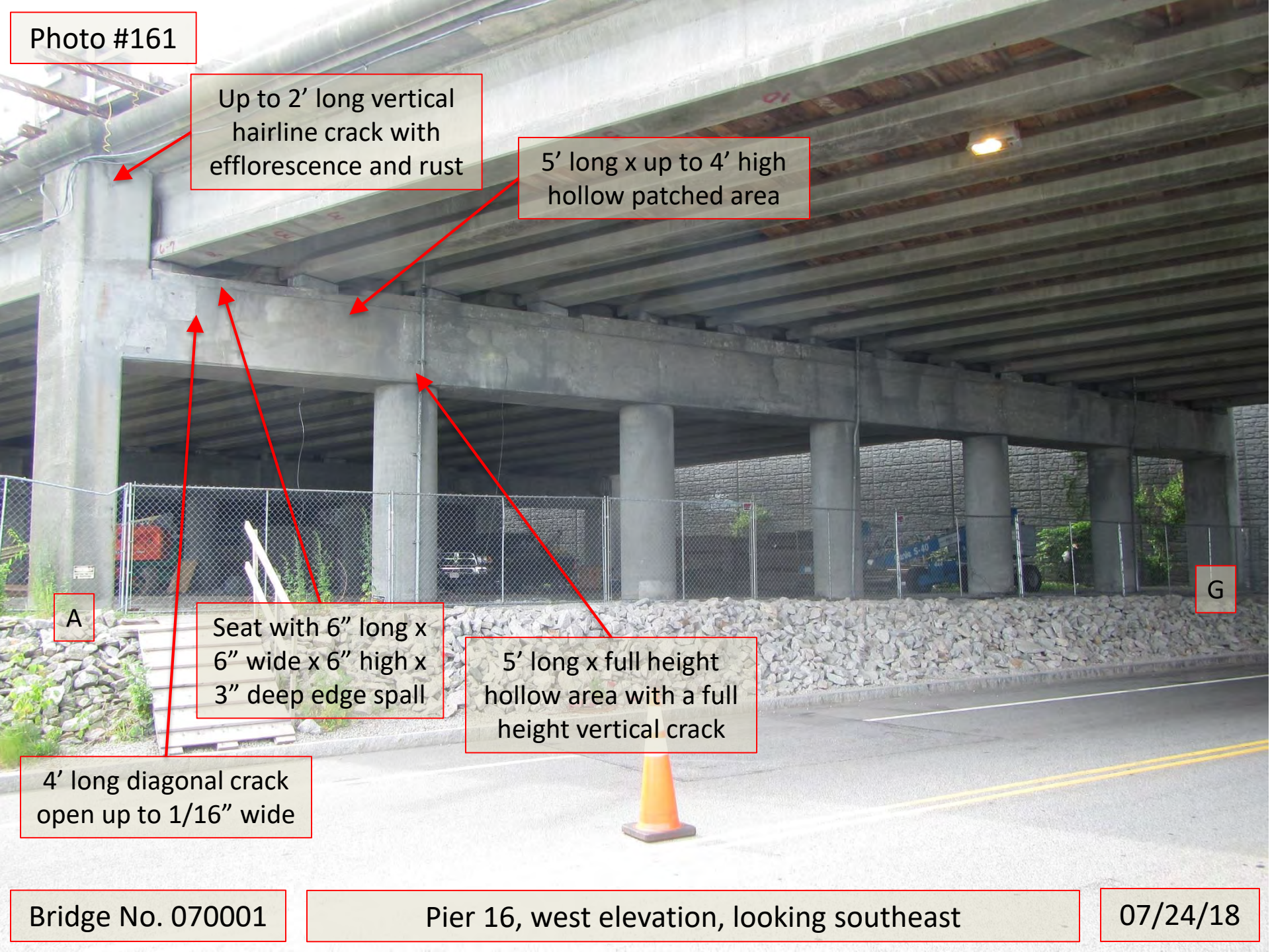
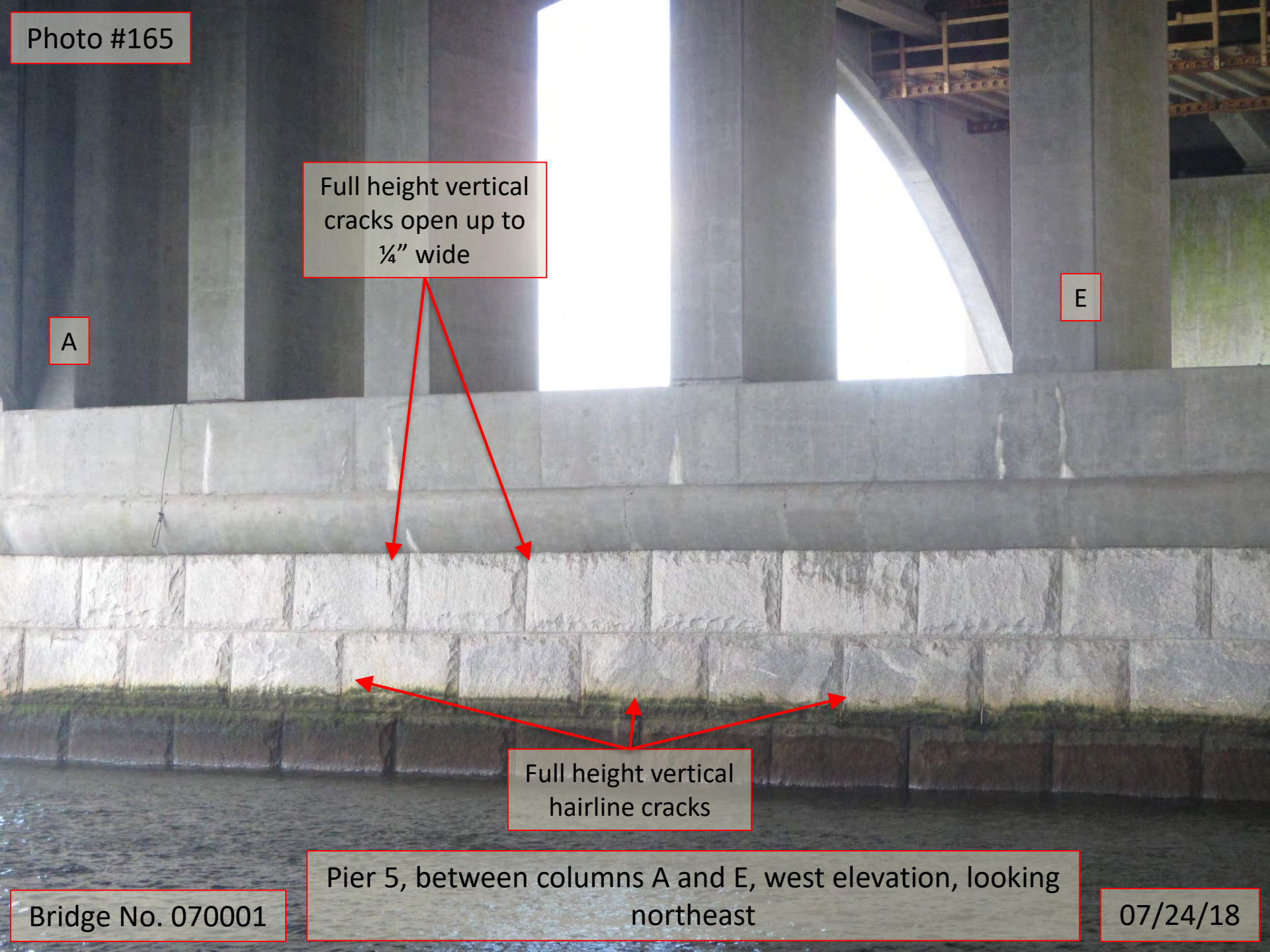
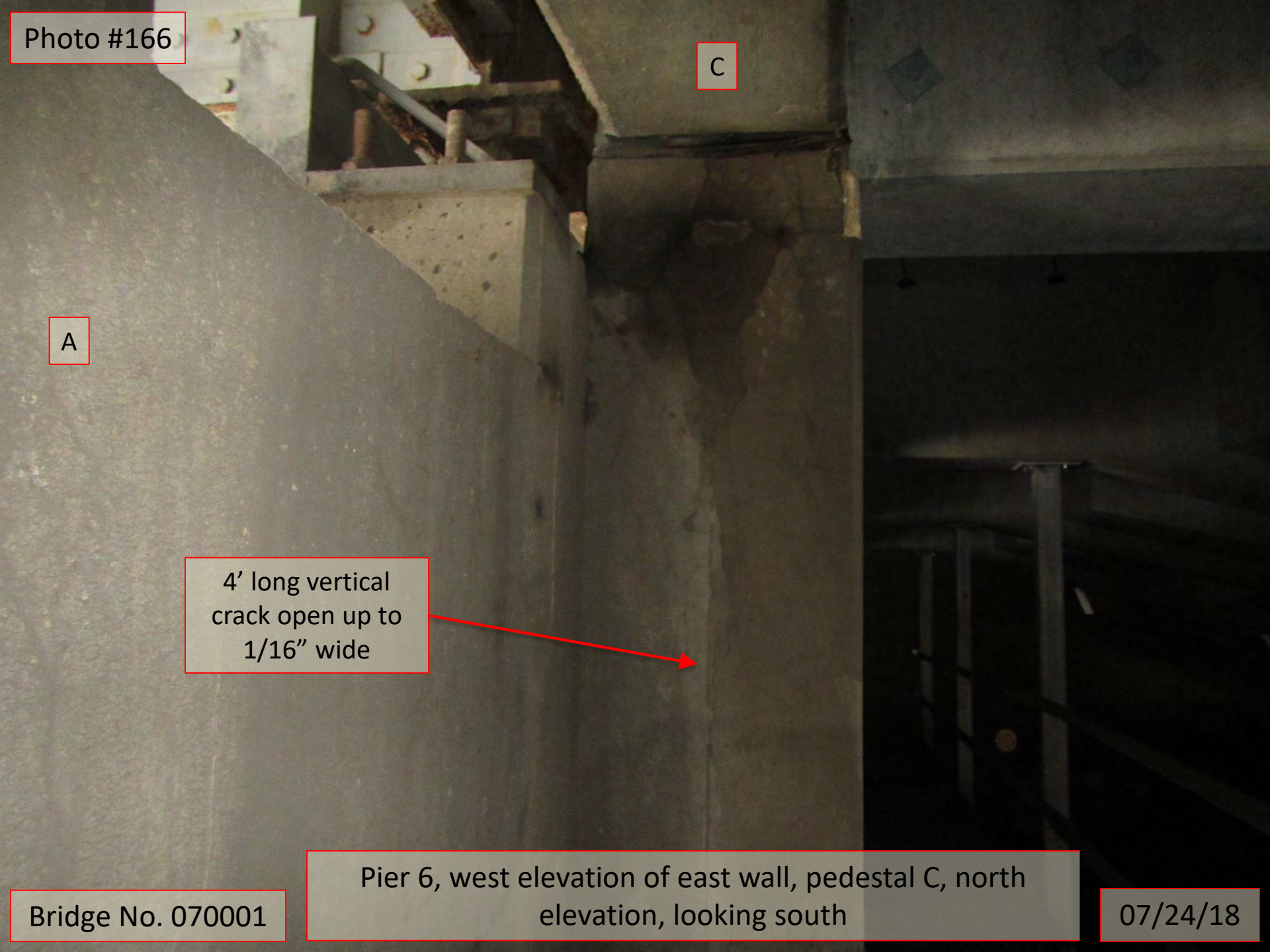

Photo #161
Up to 2’ long vertical hairline crack with efflorescence and rust
5’ long x up to 4’ high hollow patched area
A
Seat with 6” long x 6” wide x 6” high x 3” deep edge spall
5’ long x full height hollow area with a full height vertical crack
G
4’ long diagonal crack open up to 1/16” wide
Bridge No. 070001
Pier 16, west elevation, looking southeast
07/24/18


Photo #162
8’ long x 1/8” wide horizontal crack with efflorescence
F
A
Bridge No. 070001
Pier 16, east elevation, looking west
07/24/18


Photo #163
4’ long x 1/16”
wide vertical crack
A
G
Bridge No. 070001
Pier 17, west elevation, looking northeast
07/24/18


Photo #164
F
A
Bridge No. 070001
Pier 17, east elevation, looking southwest
07/24/18


Photo #165
Full height vertical cracks open up to ¼” wide
A
E
Full height vertical hairline cracks
Pier 5, between columns A and E, west elevation, looking northeast
Bridge No. 070001
07/24/18


Photo #166
C
A
4’ long vertical crack open up to 1/16” wide
Bridge No. 070001
Pier 6, west elevation of east wall, pedestal C, north elevation, looking south
07/24/18

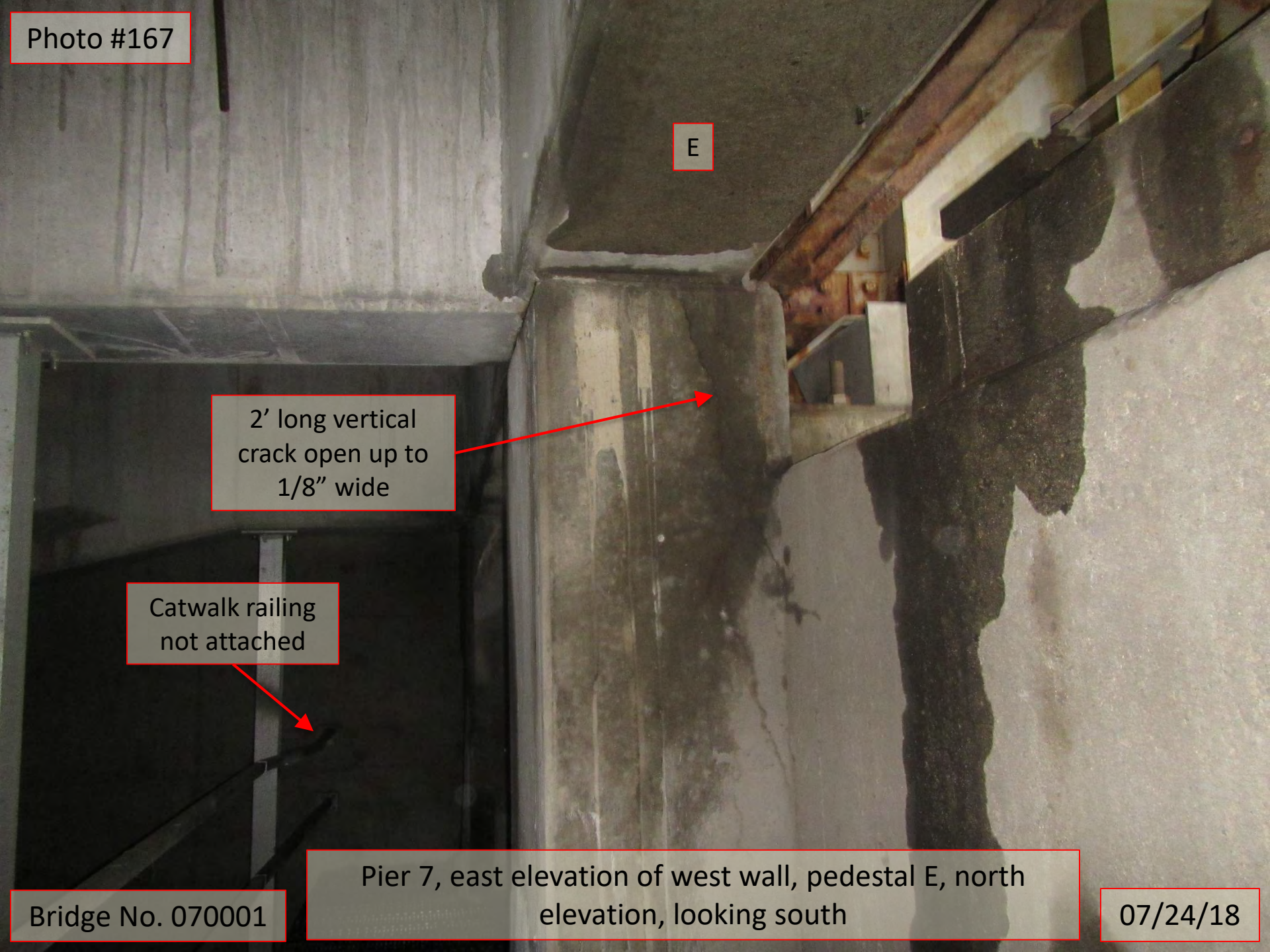

Photo #167
E
2’ long vertical crack open up to 1/8” wide
Catwalk railing not attached
Pier 7, east elevation of west wall, pedestal E, north elevation, looking south
Bridge No. 070001
07/24/18


Photo #168
Patch
Bridge No. 070001
Pier 1R, west elevation, looking east
07/24/18


Photo #169
Bridge No. 070001
Pier 1R, east elevation, looking northwest
07/24/18

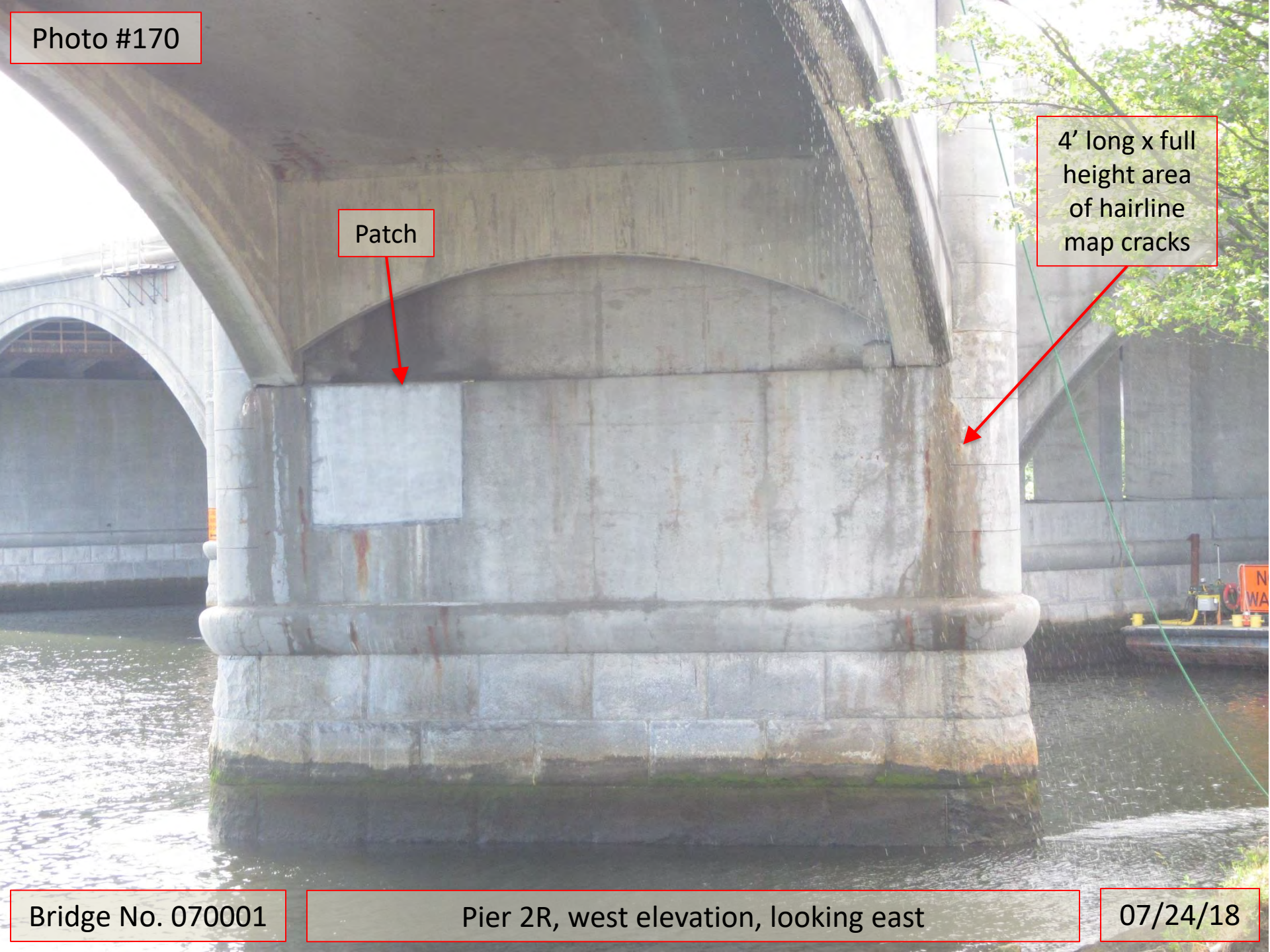
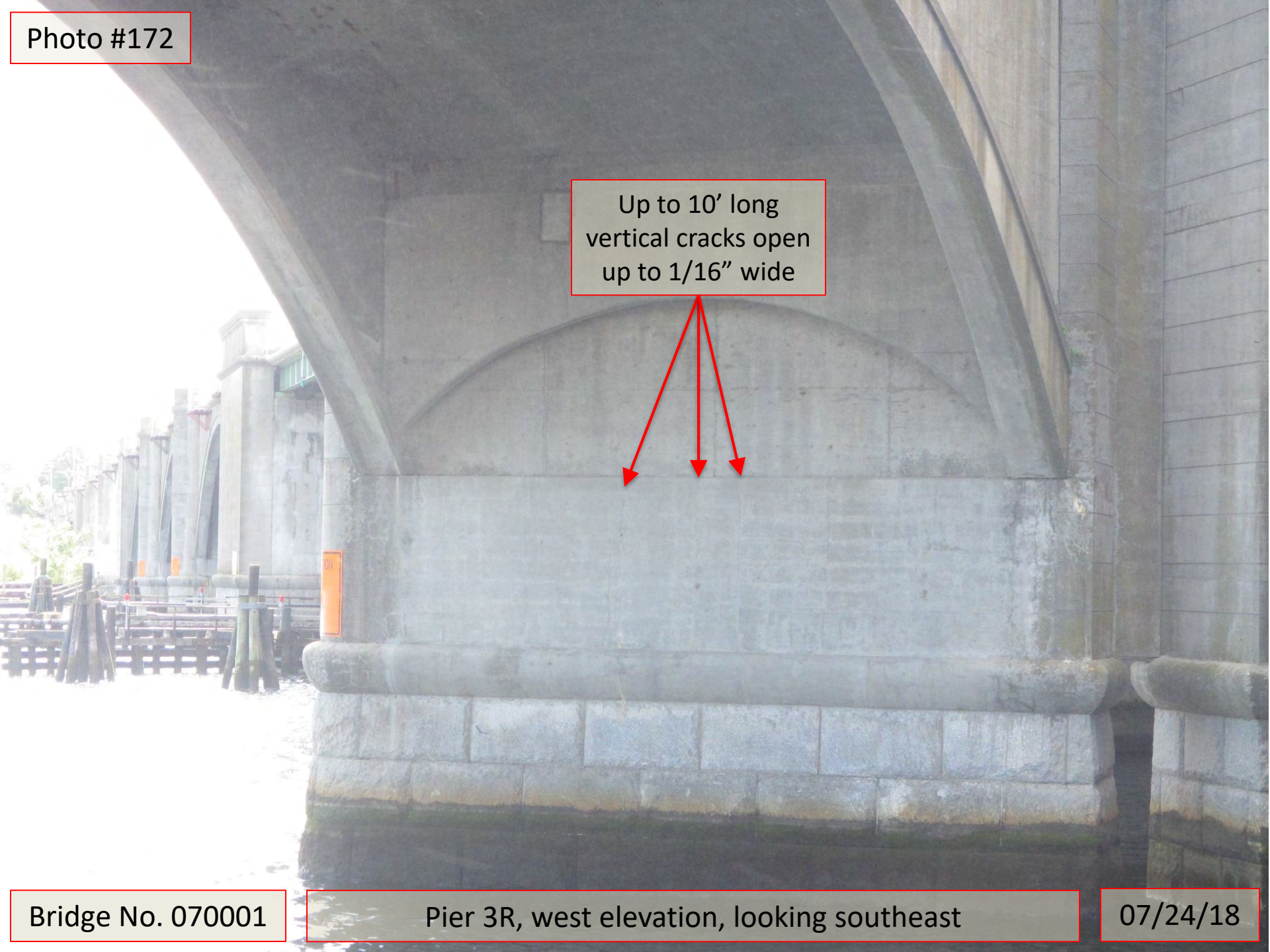

Photo #170
Patch
4’ long x full height area of hairline map cracks
Bridge No. 070001
Pier 2R, west elevation, looking east
07/24/18


Photo #171
Patches
Bridge No. 070001
Pier 2R, east elevation, looking northeast
07/24/18

Photo #172

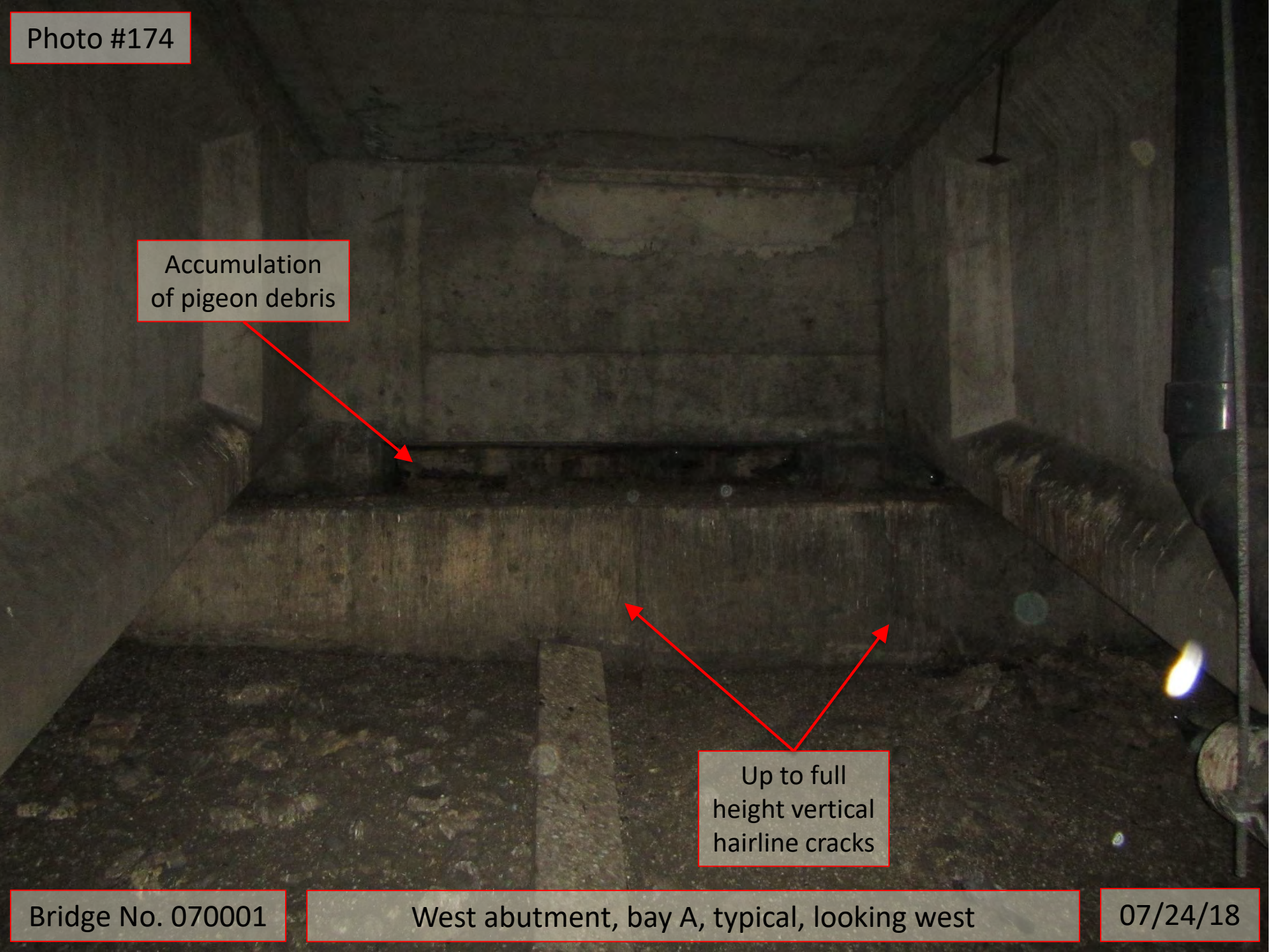


Bridge No. 070001

Pier 3R, west elevation, looking southeast

07/24/18


Photo #173
Patches
Bridge No. 070001
Pier 3R, east elevation, looking northwest
07/24/18


Photo #174
Accumulation of pigeon debris
Up to full height vertical hairline cracks
Bridge No. 070001
West abutment, bay A, typical, looking west
07/24/18

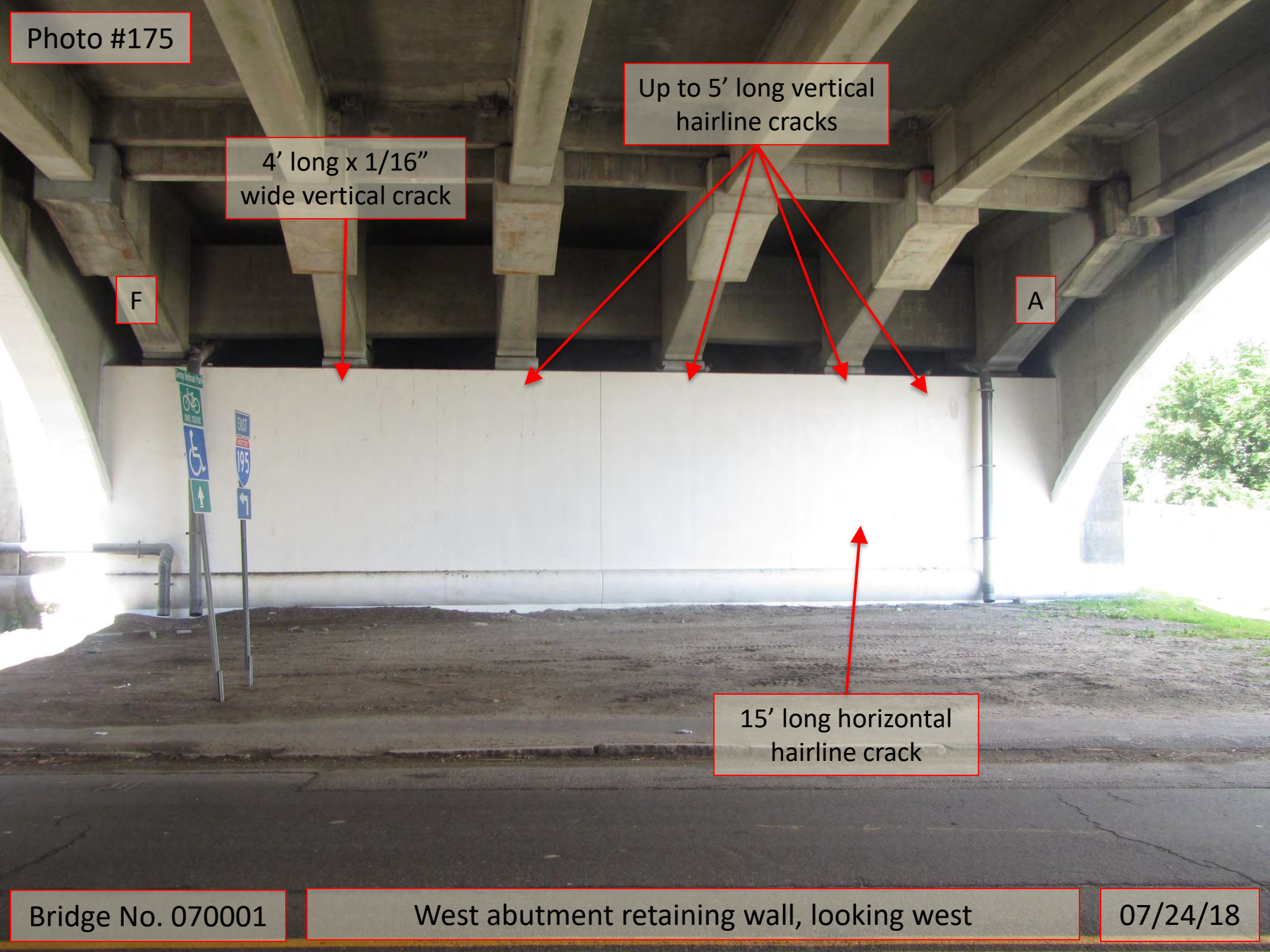
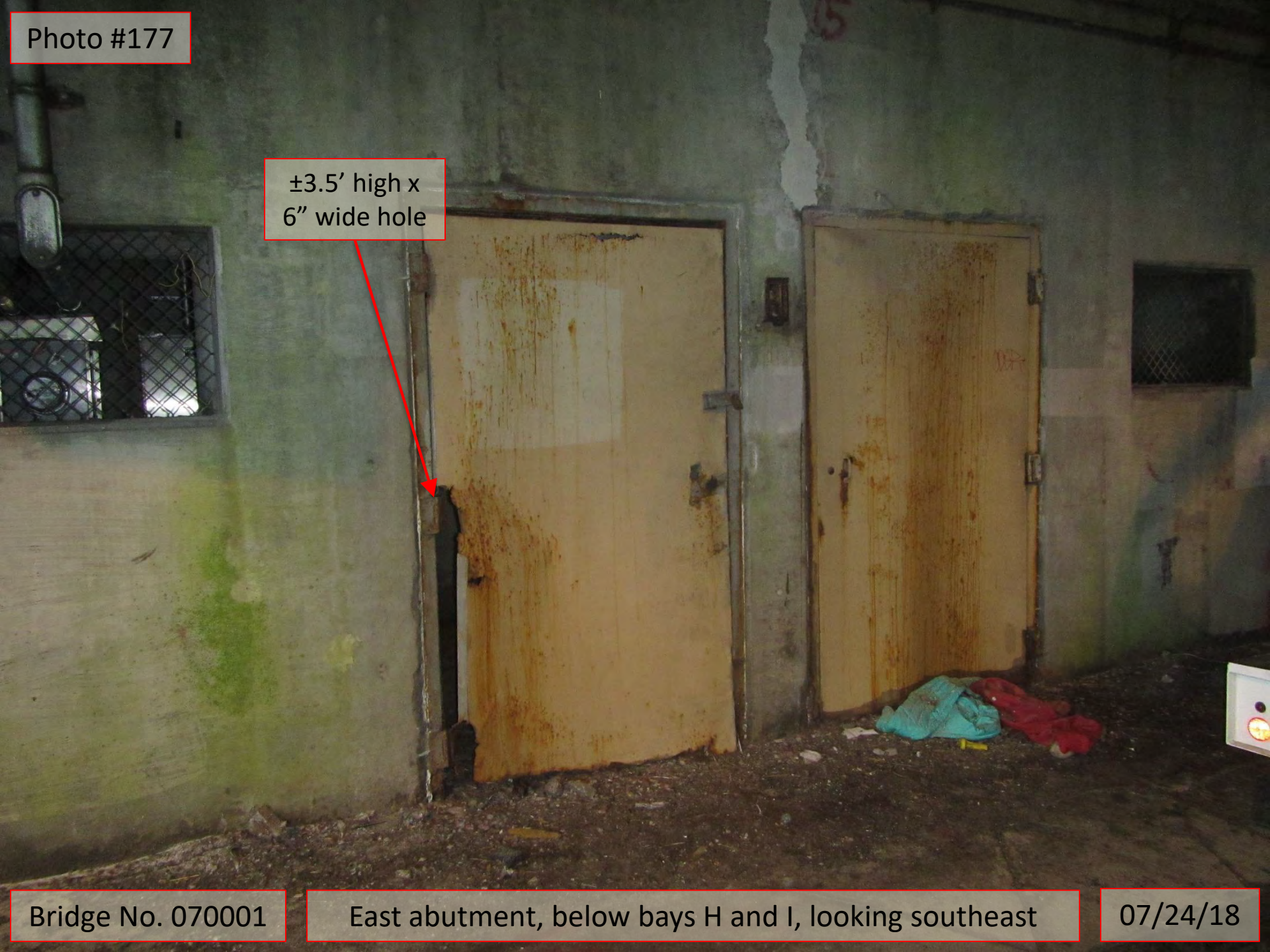
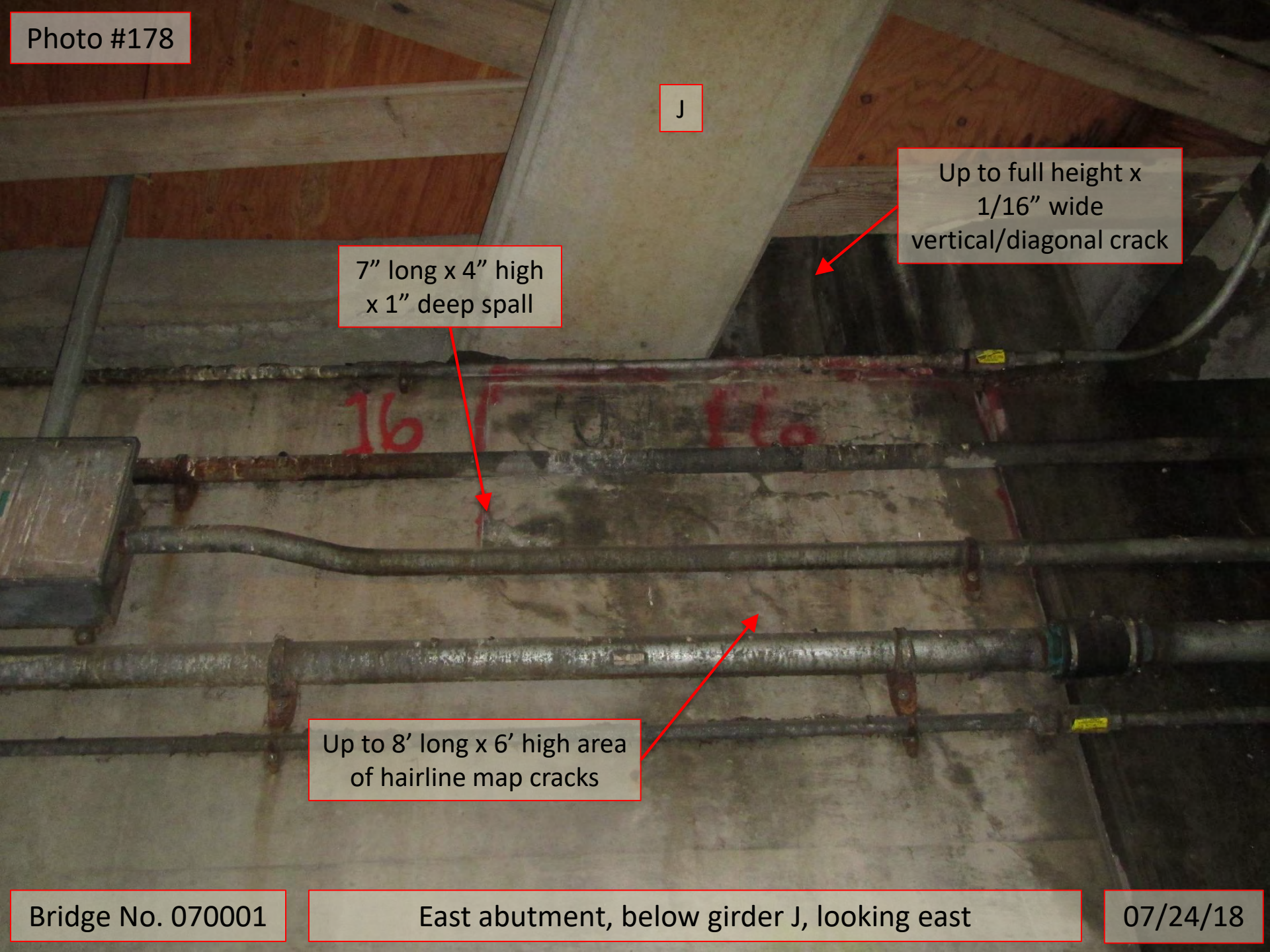
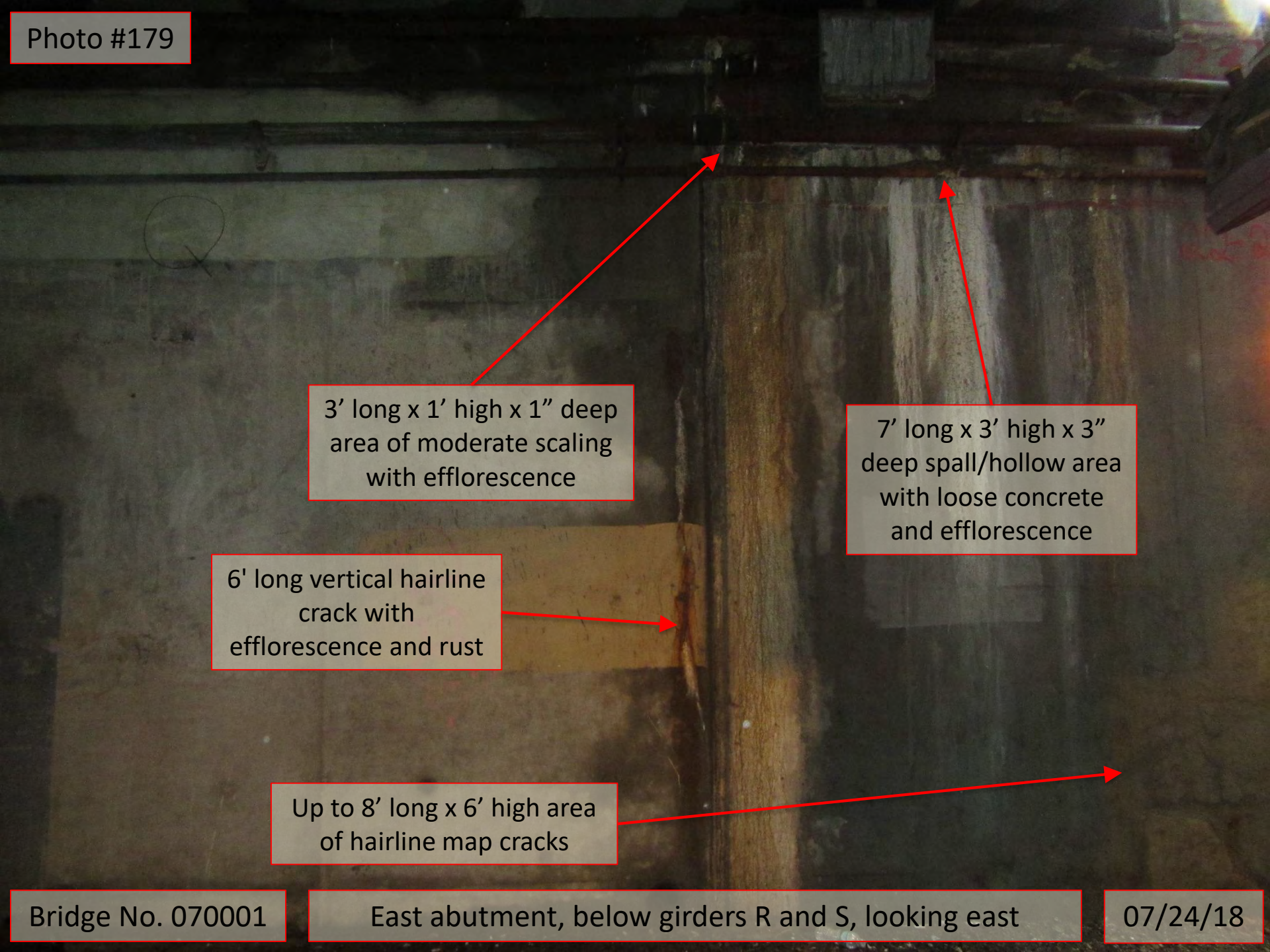
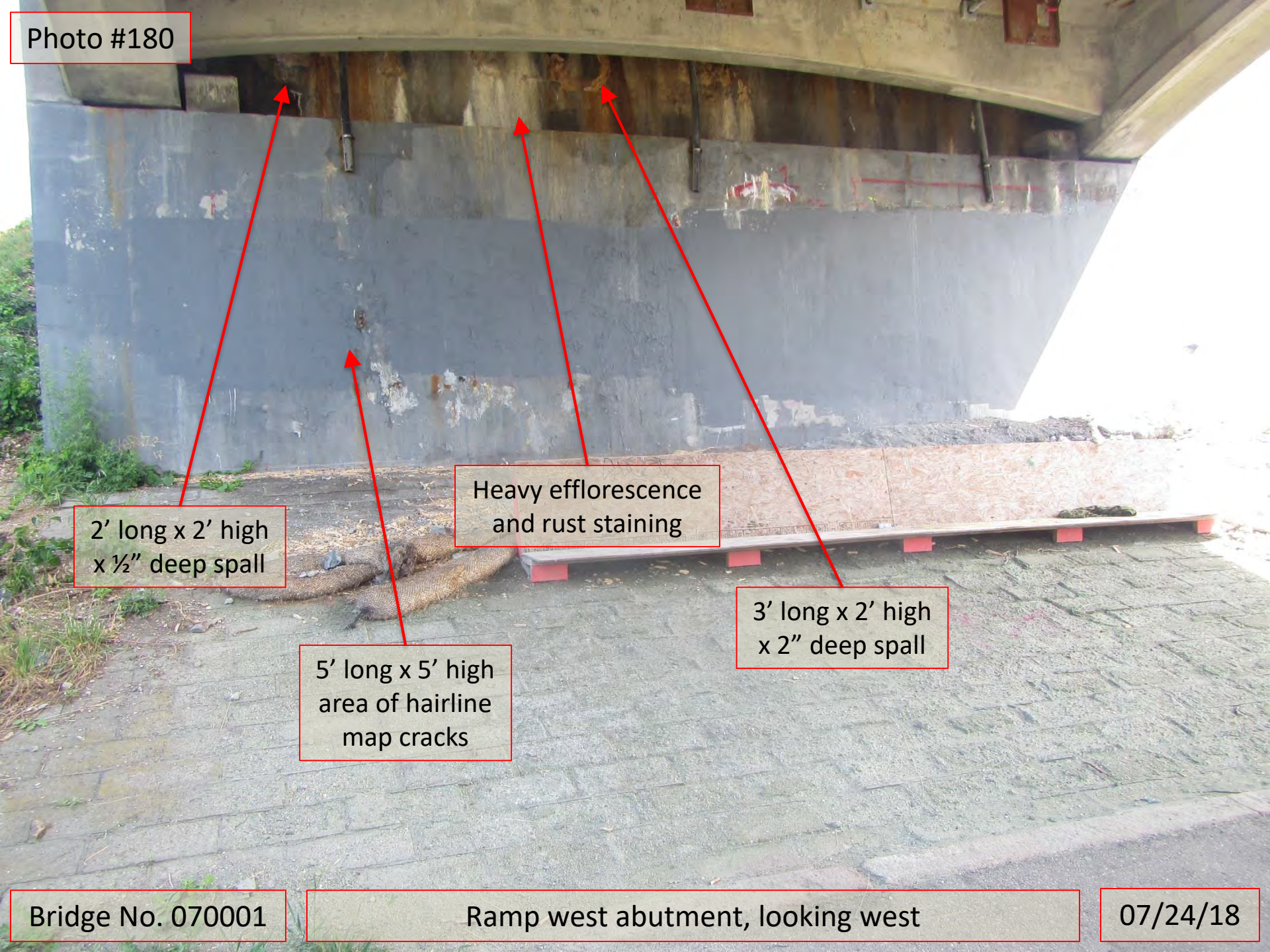

Photo #175
Up to 5’ long vertical hairline cracks
4’ long x 1/16” wide vertical crack
F
A
15’ long horizontal hairline crack
Bridge No. 070001
West abutment retaining wall, looking west
07/24/18

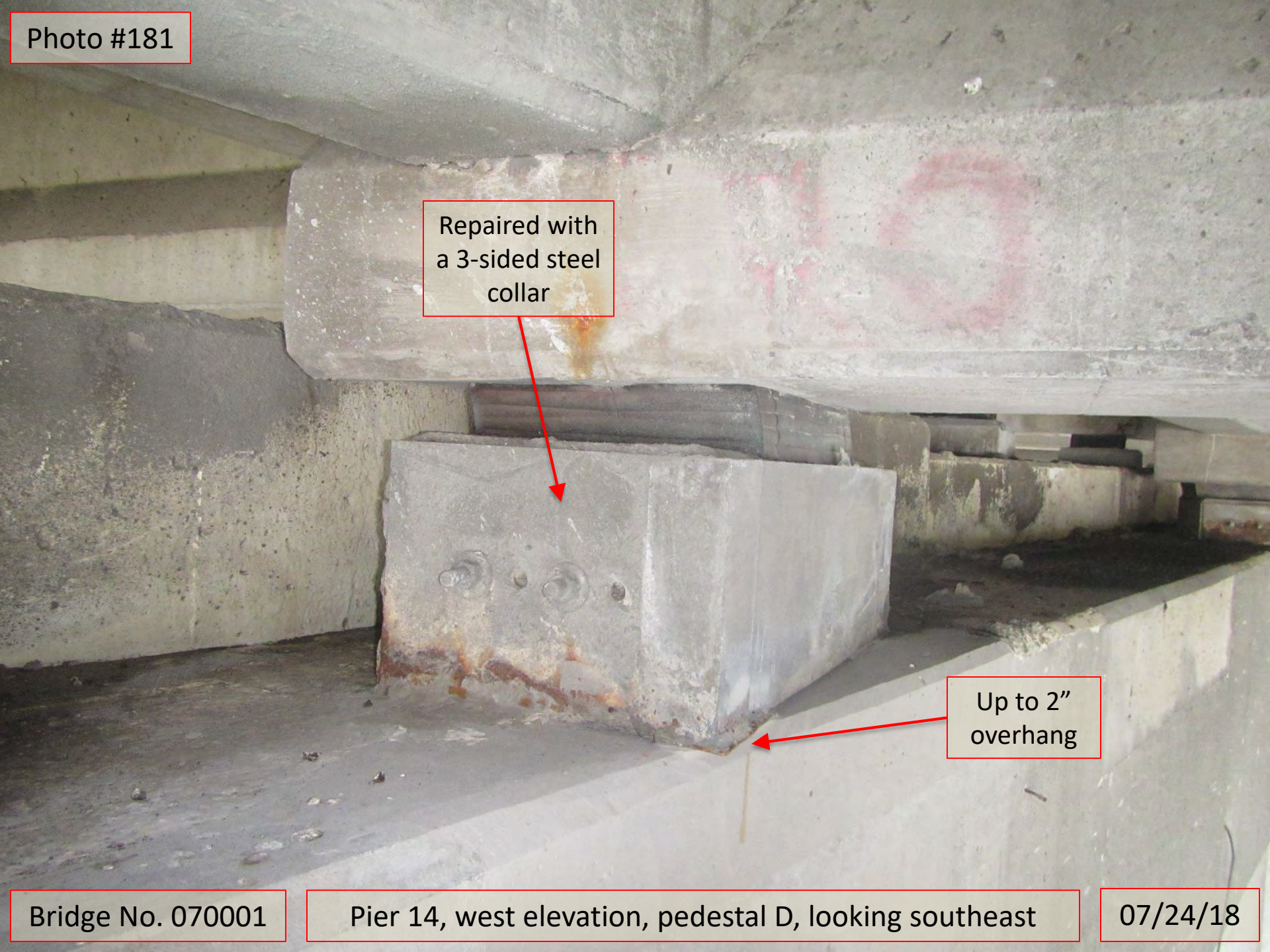

Photo #176
S
A
Bridge No. 070001
East abutment, looking northeast
07/24/18

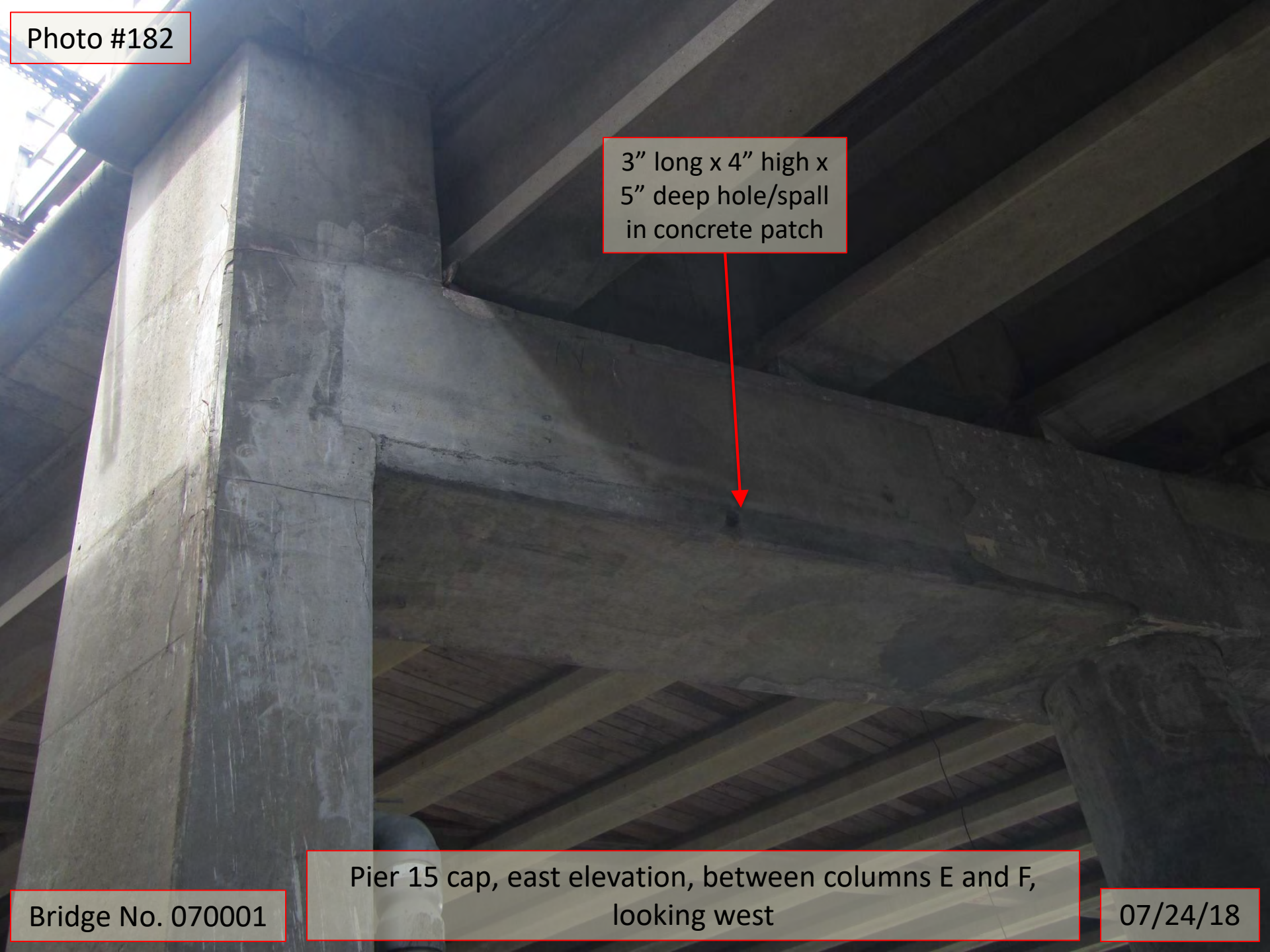

Photo #177
±3.5’ high x
6” wide hole
Bridge No. 070001
East abutment, below bays H and I, looking southeast
07/24/18

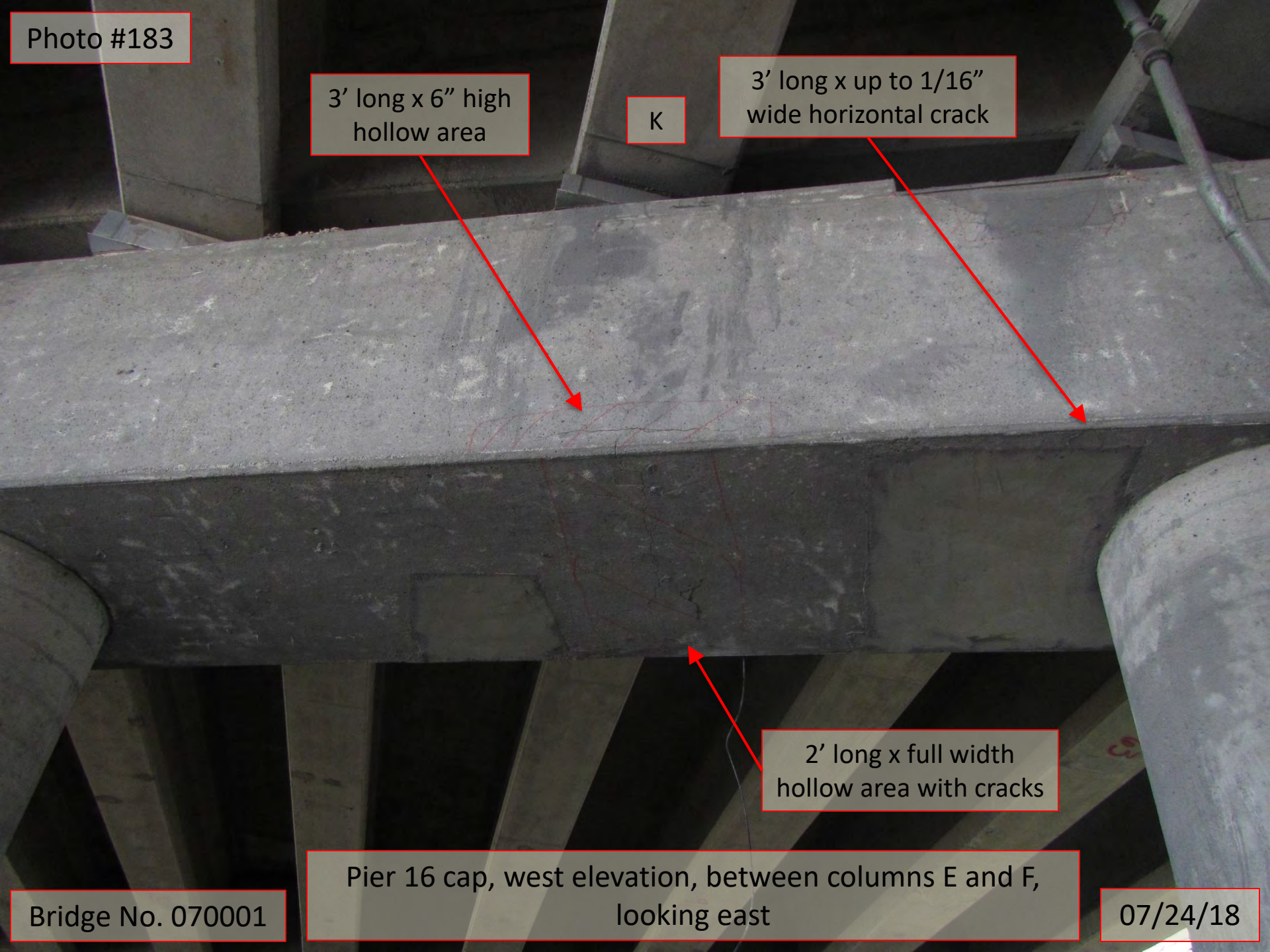

Photo #178
J
Up to full height x 1/16” wide vertical/diagonal crack
7” long x 4” high x 1” deep spall
Up to 8’ long x 6’ high area of hairline map cracks
Bridge No. 070001
East abutment, below girder J, looking east
07/24/18

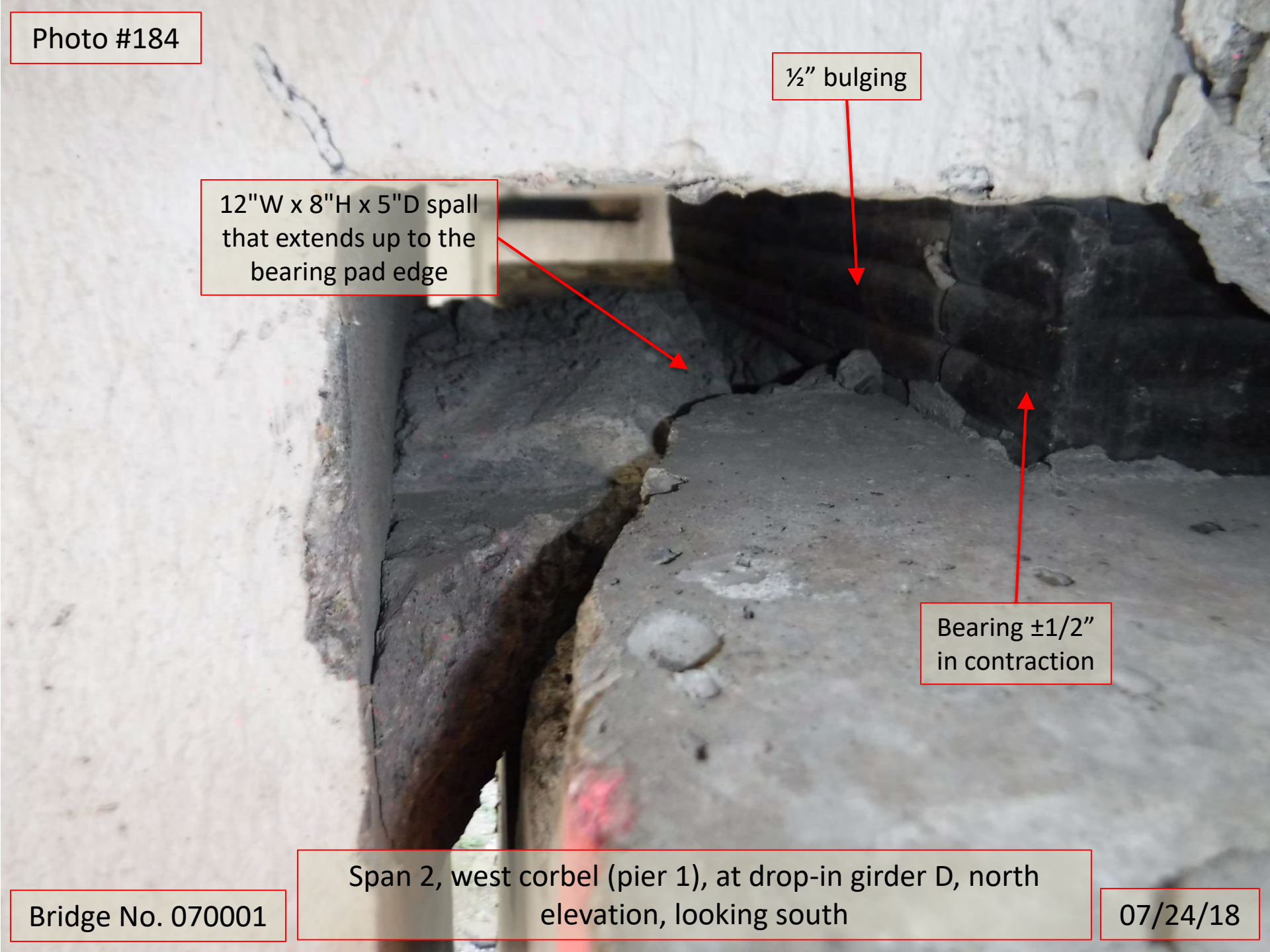

Photo #179
3’ long x 1’ high x 1” deep area of moderate scaling with efflorescence
7’ long x 3’ high x 3” deep spall/hollow area with loose concrete and efflorescence
6' long vertical hairline crack with efflorescence and rust
Up to 8’ long x 6’ high area of hairline map cracks
Bridge No. 070001
East abutment, below girders R and S, looking east
07/24/18

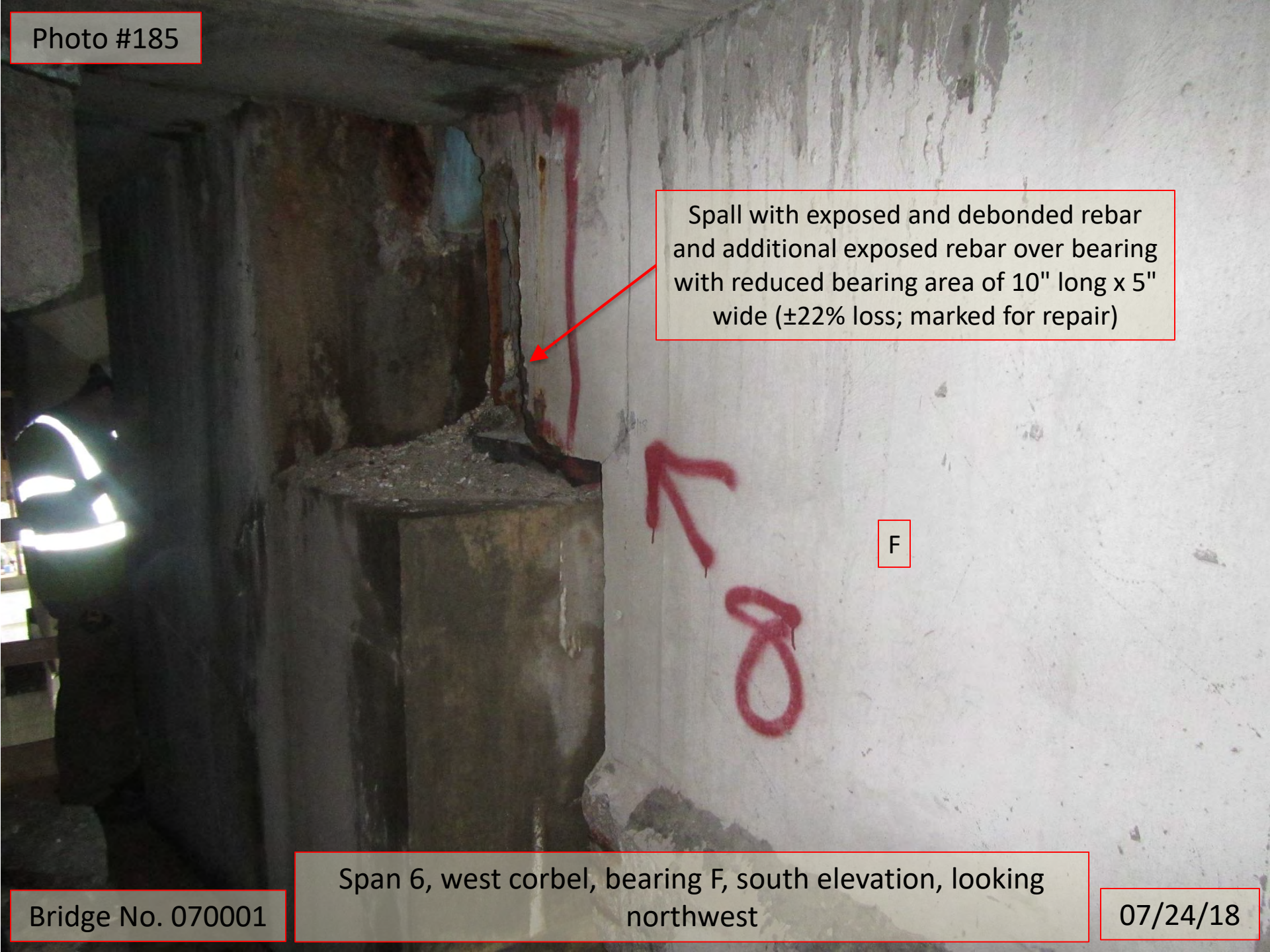

Photo #180
2’ long x 2’ high x ½” deep spall
Heavy efflorescence and rust staining
3’ long x 2’ high x 2” deep spall
5’ long x 5’ high area of hairline map cracks
Bridge No. 070001
Ramp west abutment, looking west
07/24/18

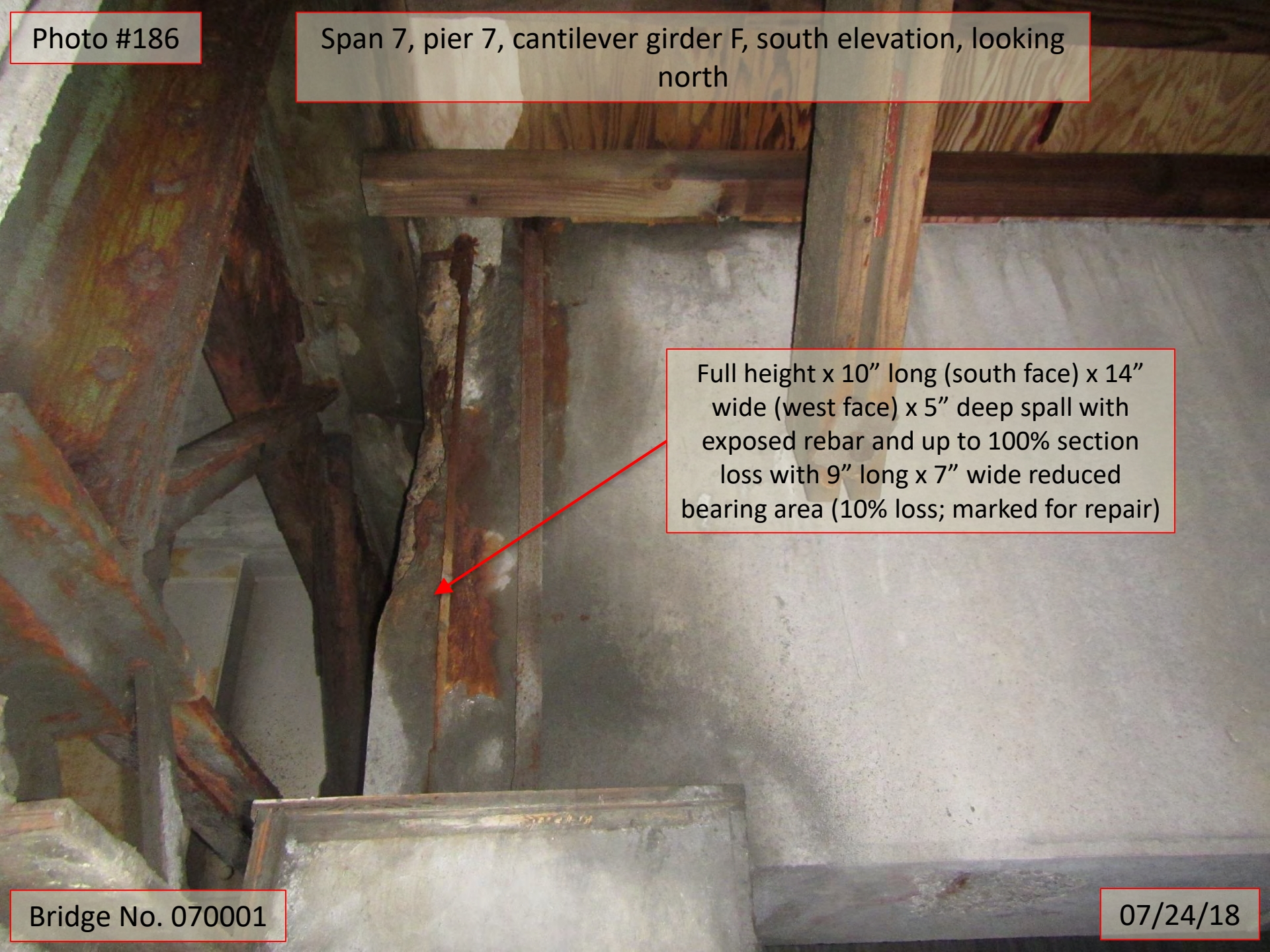

Photo #181
Repaired with a 3-sided steel collar
Up to 2” overhang
Bridge No. 070001
Pier 14, west elevation, pedestal D, looking southeast
07/24/18


Photo #182
3” long x 4” high x 5” deep hole/spall in concrete patch
Bridge No. 070001
Pier 15 cap, east elevation, between columns E and F, looking west
07/24/18


Photo #183
3’ long x 6” high hollow area
K
3’ long x up to 1/16” wide horizontal crack
2’ long x full width hollow area with cracks
Pier 16 cap, west elevation, between columns E and F, looking east
Bridge No. 070001
07/24/18


Photo #184
½” bulging
12"W x 8"H x 5"D spall that extends up to the bearing pad edge
Bearing ±1/2” in contraction
Bridge No. 070001
Span 2, west corbel (pier 1), at drop-in girder D, north elevation, looking south
07/24/18


Photo #185
Spall with exposed and debonded rebar and additional exposed rebar over bearing with reduced bearing area of 10" long x 5" wide (±22% loss; marked for repair)
F
Bridge No. 070001
Span 6, west corbel, bearing F, south elevation, looking northwest
07/24/18


Photo #186
Span 7, pier 7, cantilever girder F, south elevation, looking north
Full height x 10” long (south face) x 14” wide (west face) x 5” deep spall with exposed rebar and up to 100% section loss with 9” long x 7” wide reduced bearing area (10% loss; marked for repair)
Bridge No. 070001
07/24/18

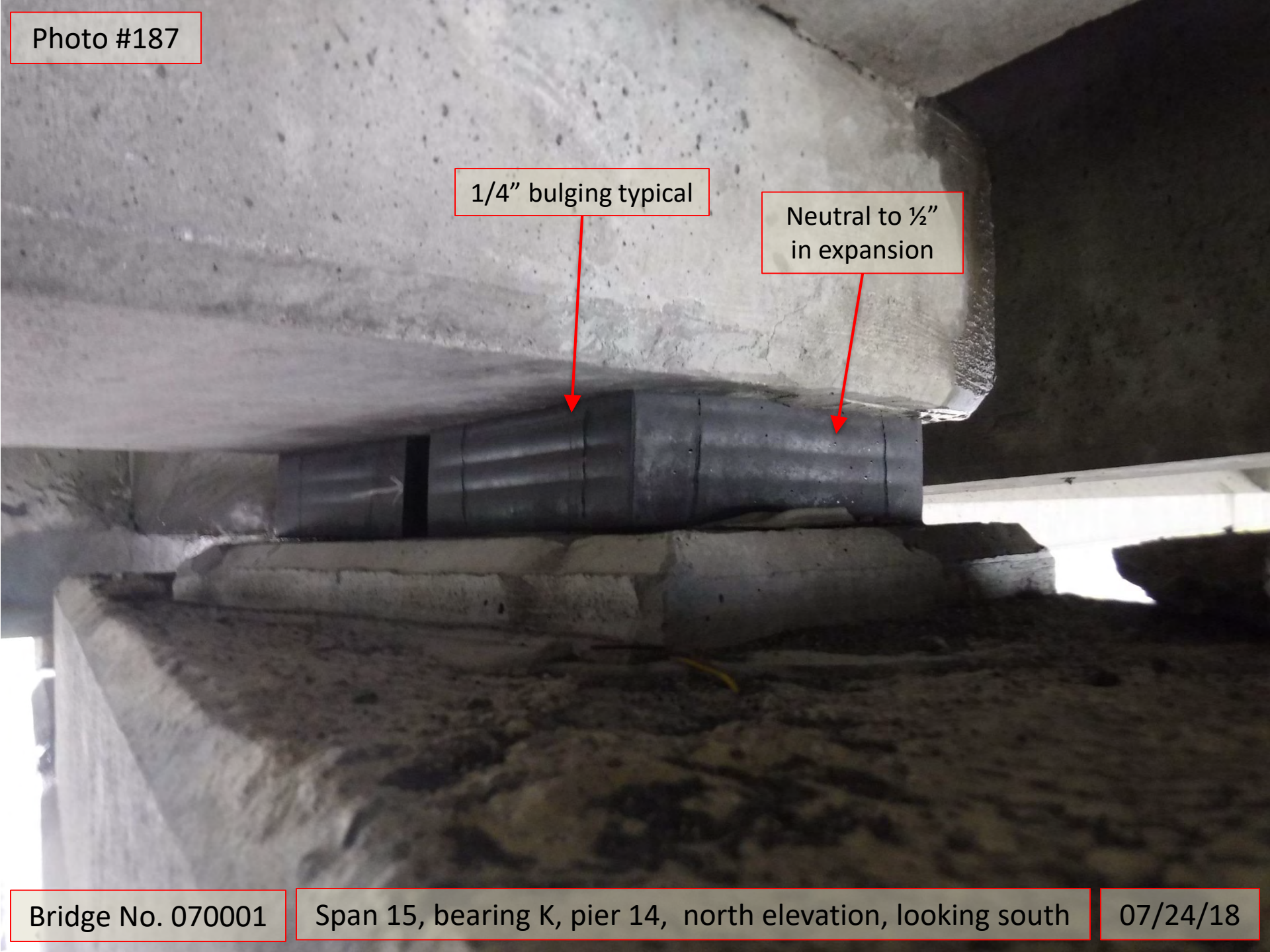

Photo #187
1/4” bulging typical
Neutral to ½” in expansion
Bridge No. 070001
Span 15, bearing K, pier 14, north elevation, looking south
07/24/18


Photo #188
Up to 3/4” bulging
Neutral to ½”
in expansion
Bridge No. 070001
Span 15, pier 14, bearing G, south elevation, looking north
07/24/18


Photo #189
Up to 3/8” thick pack rust between the bearing plates
Bridge No. 070001
Span 7, pier 6, bearing K, north elevation, looking south
07/24/18


Photo #190
Bearing restraint
Bridge No. 070001
Span 7, pier 6, bearing J, north elevation, looking south
07/24/18


Photo #191
Up to 3/8” thick pack rust between the bearing plates
Bridge No. 070001
Span 7, pier 7, bearing A, south elevation, looking north
07/24/18

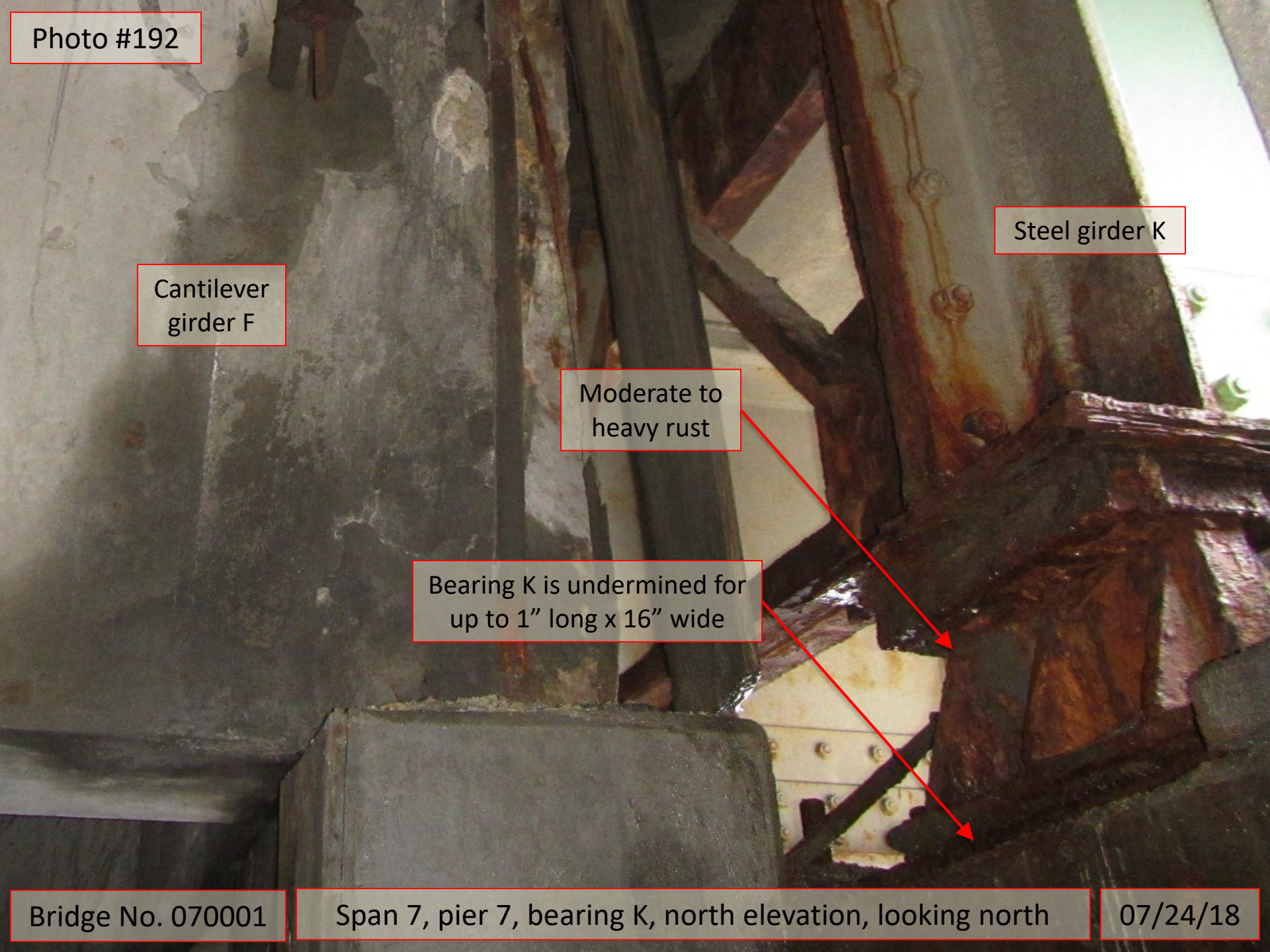

Photo #192
Steel girder K
Cantilever girder F
Moderate to heavy rust
Bearing K is undermined for up to 1” long x 16” wide
Bridge No. 070001
Span 7, pier 7, bearing K, north elevation, looking north
07/24/18


Photo #193
Bridge No. 070001
North bridge rail, looking east
07/24/18

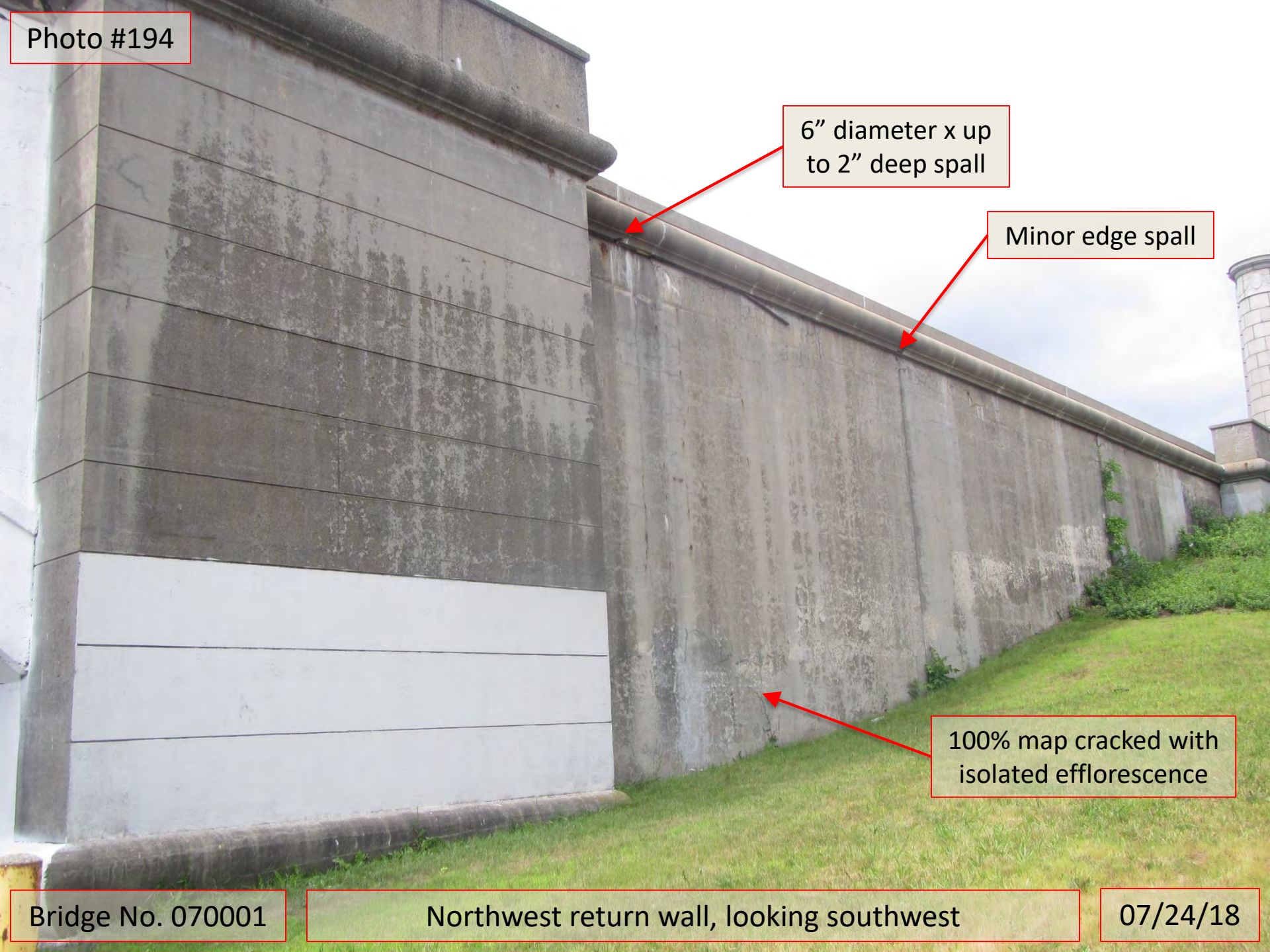

Photo #194
6” diameter x up to 2” deep spall
Minor edge spall
100% map cracked with isolated efflorescence
Bridge No. 070001
Northwest return wall, looking southwest
07/24/18


Photo #195
100% map cracked
Bridge No. 070001
Northeast return wall, looking east
07/24/18


Photo #196
Bridge No. 070001
Ramp southwest return wall, looking northeast
07/24/18

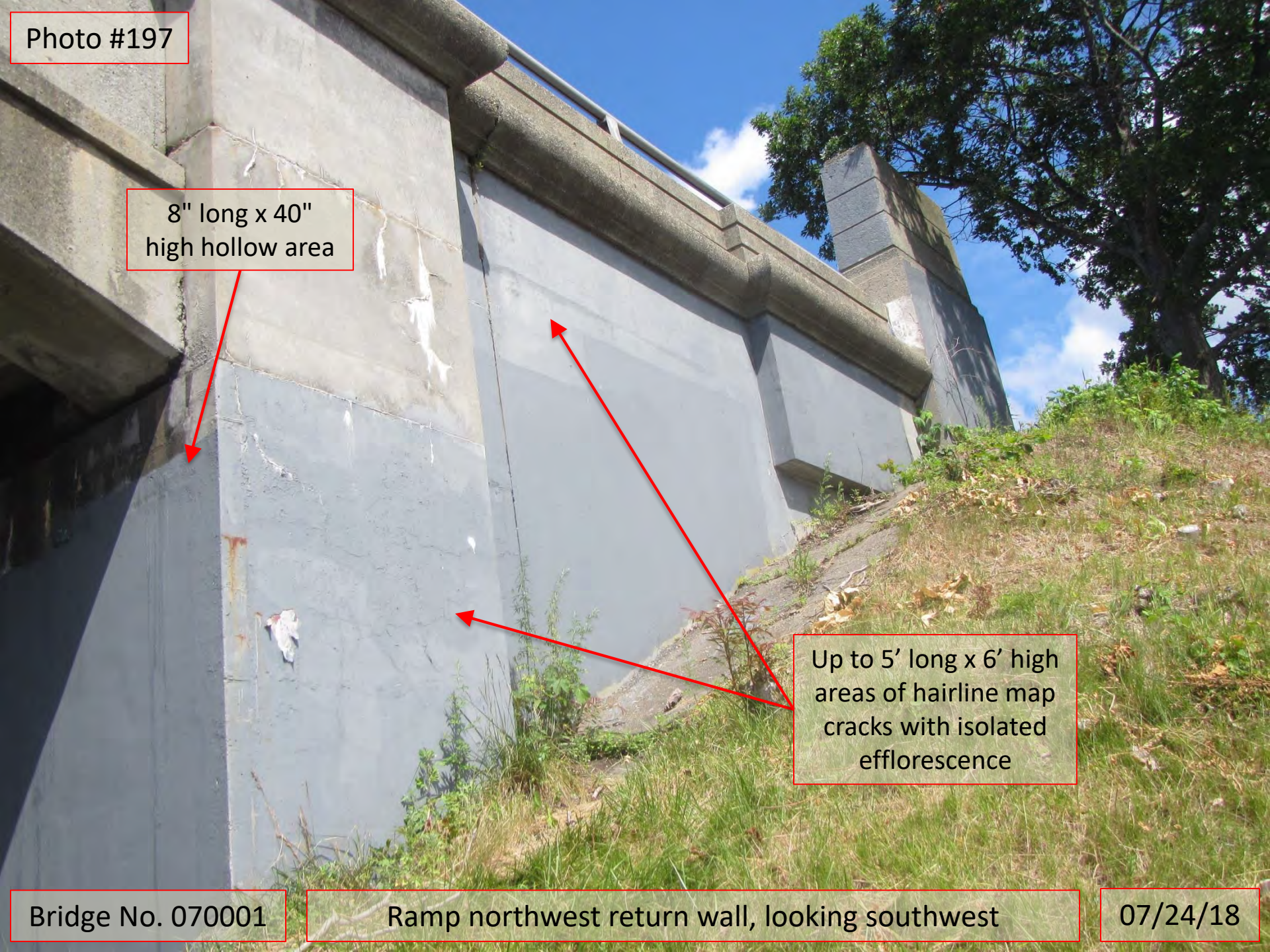
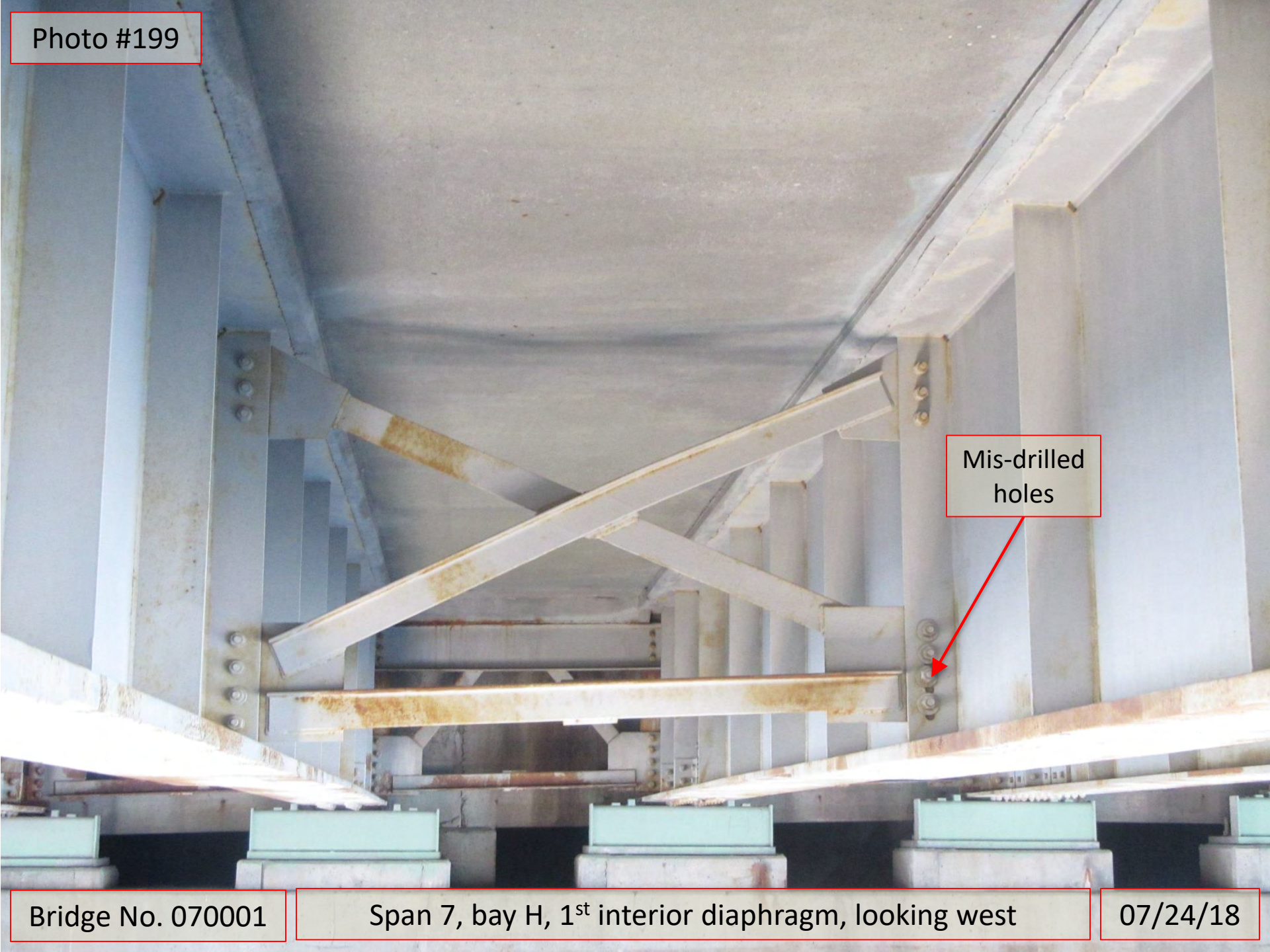

Photo #197
8" long x 40" high hollow area
Up to 5’ long x 6’ high areas of hairline map cracks with isolated efflorescence
Bridge No. 070001
Ramp northwest return wall, looking southwest
07/24/18


Photo #198
Up to 3/8” thick pack rust between plates
Up to 1/16” section loss
Bridge No. 070001
Span 7, pier 6, bay A, end diaphragm, looking west
07/24/18


Photo #199
Mis-drilled holes
Bridge No. 070001
Span 7, bay H, 1st interior diaphragm, looking west
07/24/18

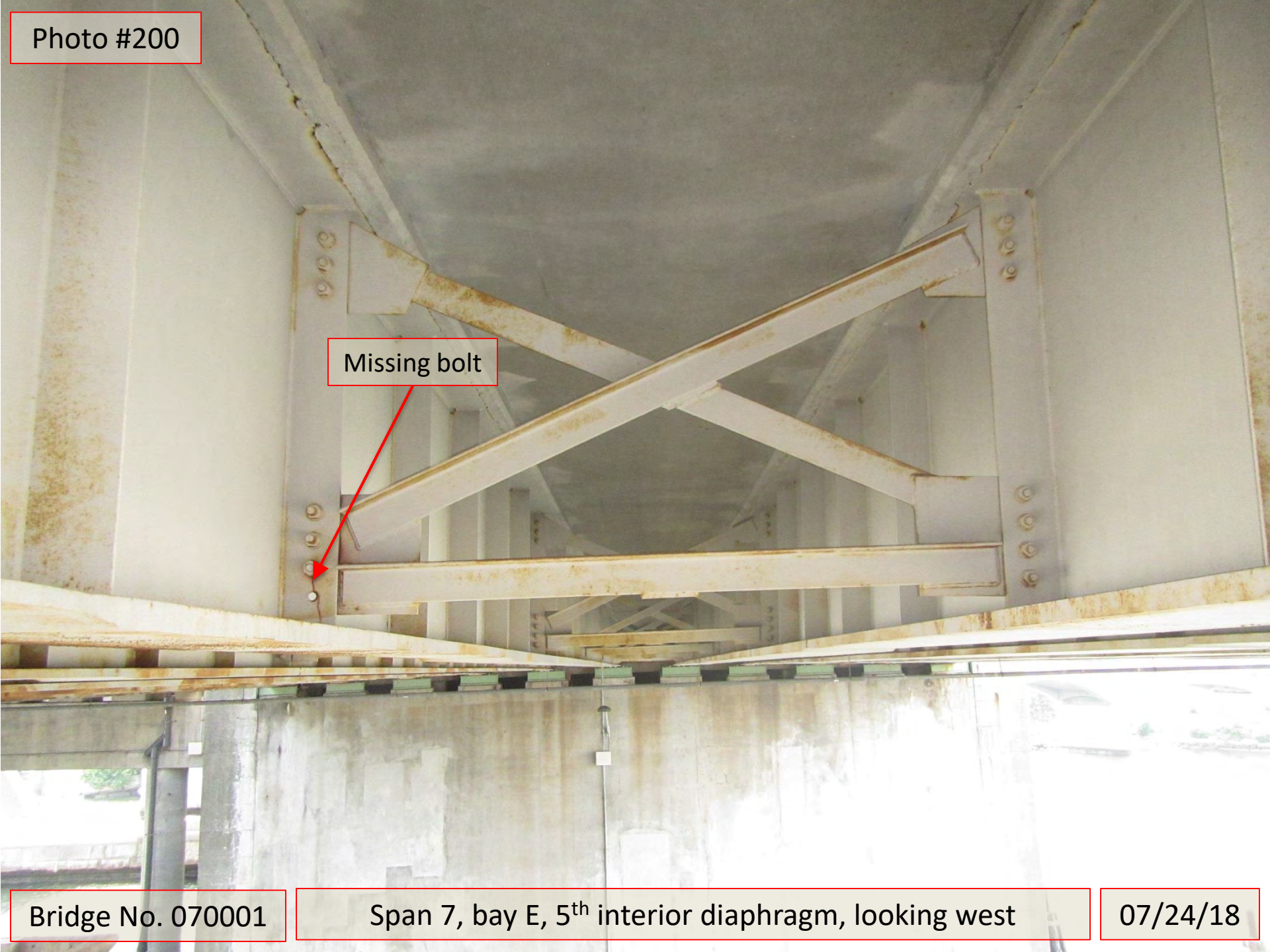

Photo #200
Missing bolt
Bridge No. 070001
Span 7, bay E, 5th interior diaphragm, looking west
07/24/18


Photo #201
3' long x full width x 1" deep
spall/hollow area with exposed rebar
Bridge No. 070001
Span 3, pier 3, bay A, end diaphragm, looking east
07/24/18

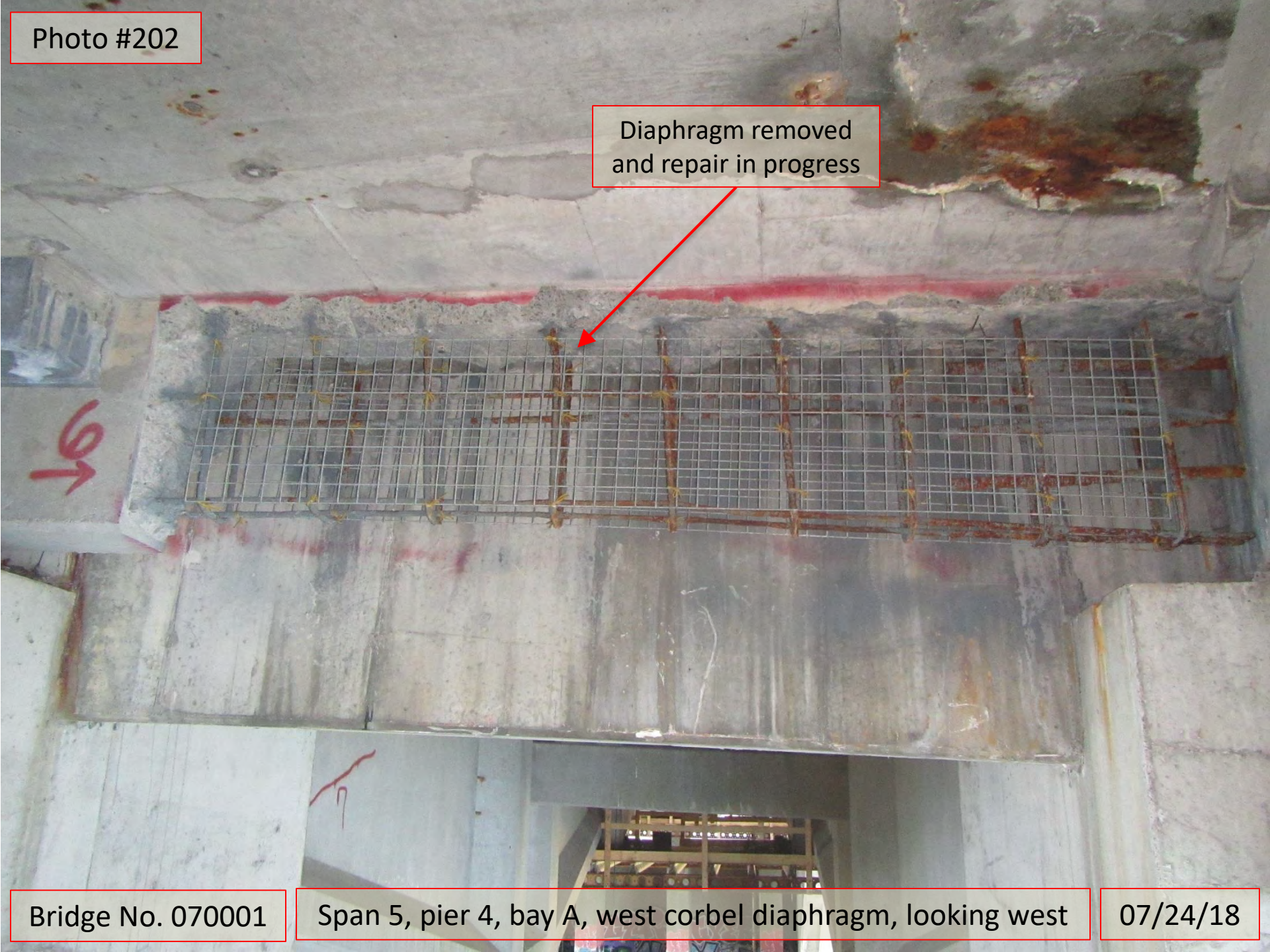

Photo #202
Diaphragm removed
and repair in progress
Bridge No. 070001
Span 5, pier 4, bay A, west corbel diaphragm, looking west
07/24/18


Photo #203
7' long x 1/8" wide crack
with rust staining
Bridge No. 070001
Span 14, pier 13, bay A, end diaphragm, looking west
07/24/18



Bridge No. 070001

Span 14, pier 13, bay C, end diaphragm, looking west

07/24/18

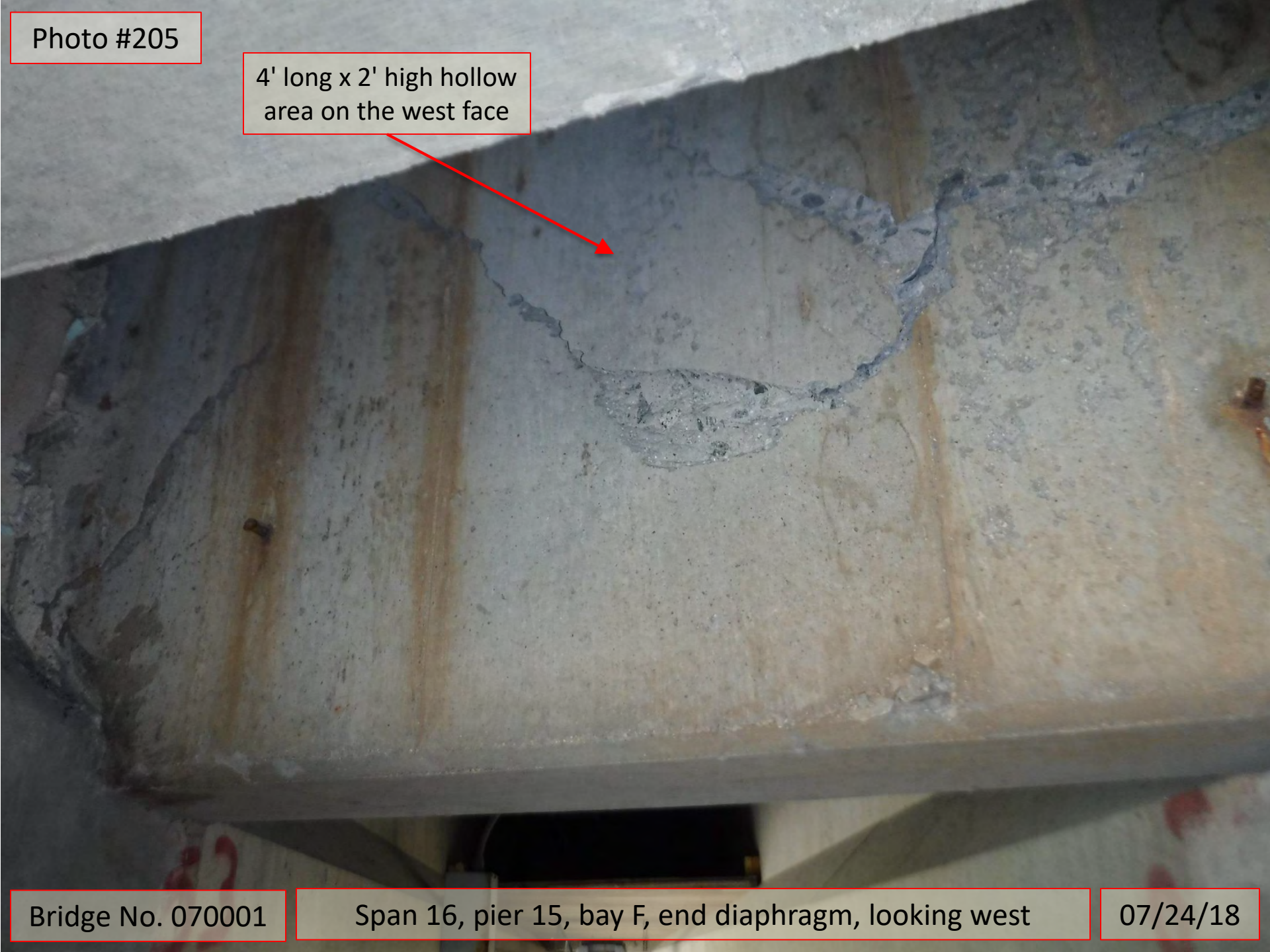

Photo #205
4' long x 2' high hollow area on the west face
Bridge No. 070001
Span 16, pier 15, bay F, end diaphragm, looking west
07/24/18


Photo #206
4.5' long x 3' high x up to 3" deep spall with exposed rusted rebar
K
Bridge No. 070001
Span 17, pier 16, bay J, end diaphragm, looking west
07/24/18


Photo #207
Bridge No. 070001
Upstream channel, looking north
07/24/18


Photo #208
Bridge No. 070001
Downstream channel, looking south
07/24/18