

Inspector: TYLIN, TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Inspection Type(s): Routine

Bridge Name: DRUMMOND ROAD / I-95

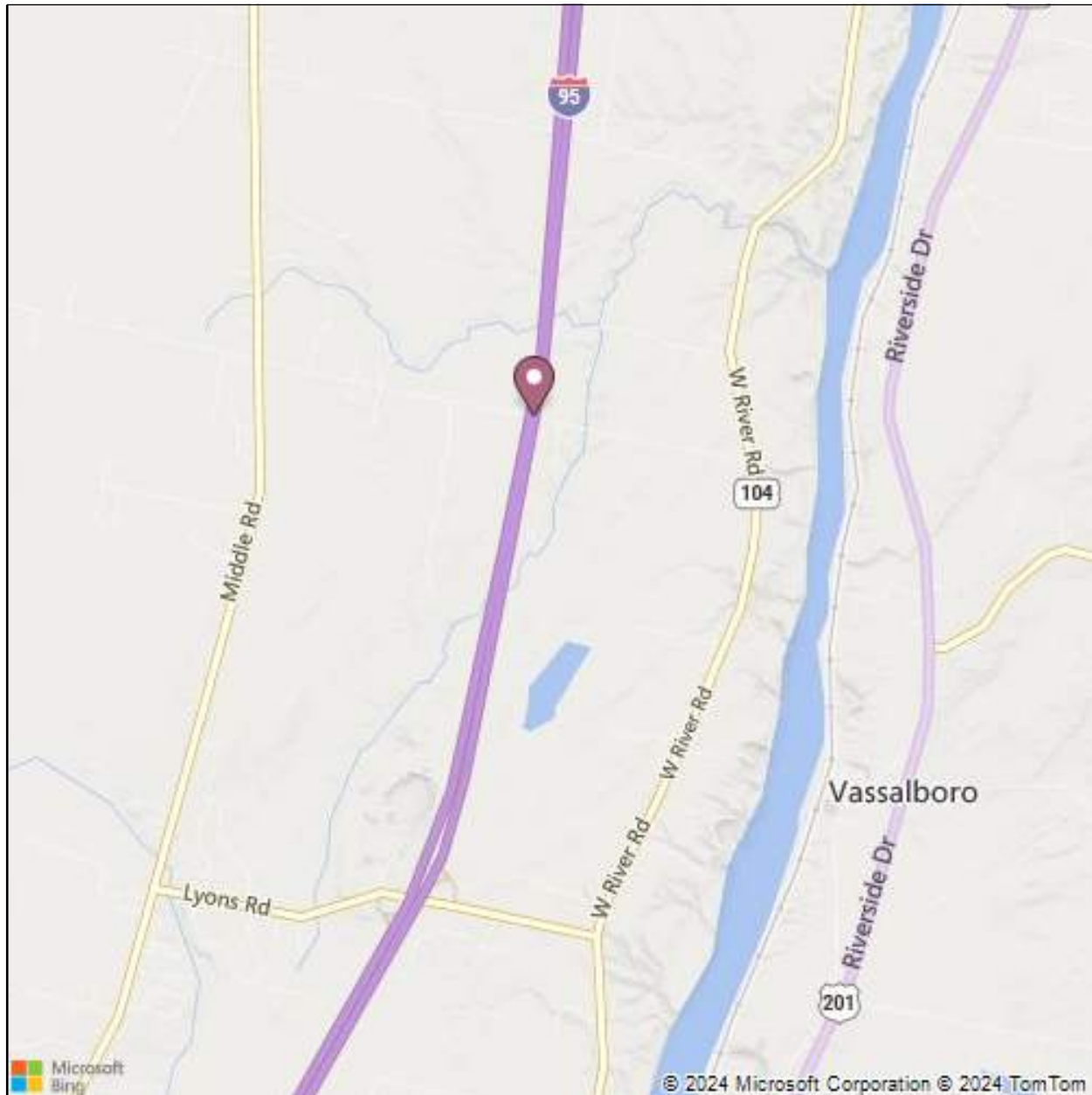
Town: Sidney



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Latitude: 44.47993

Longitude: -69.70702

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National Bridge Inventory

Status: 2 - FO

Bridge Name: DRUMMOND ROAD / I-95

Sufficiency Rating: 53.5

Inspections

(90) INSPECTION DATE	& (91) DESIGNATED INSPECTION FREQUENCY	24	09/06/2024
(92) CRITICAL FEATURE INSPECTION	& (93) CFI DATE		
(92A) FRACTURE CRITICAL DETAIL		N	
(92B) UNDERWATER INSPECTION		N	
(92C) OTHER SPECIAL INSPECTION		N	

Identification

(1) STATE CODE	231 - Maine
(8) STRUCTURE NUMBER	5784
(5) INVENTORY ROUTE	
(5A) RECORD TYPE	1: Route carried "on" the structure
(5B) ROUTE SIGNING PREFIX	5 - CITY STREET
(5C) DESIGNATED LEVEL OF SERVICE	0 - None
(5) INVENTORY ROUTE	0
(5) INVENTORY ROUTE	0 - NOT APPLICABLE
(2) HIGHWAY AGENCY DISTRICT	02 - Mid-Coast
(3) COUNTY CODE	011 Kennebec
(4) PLACE CODE	68385
(6) FEATURES INTERSECTED	INTERSTATE 95 NB & SB
(7) FACILITY CARRIED	DRUMMOND RD
(9) LOCATION	0.8 MI W OF JCT RTE 104
(11) MILEPOINT	3.510
(12) BASE HIGHWAY NETWORK	Inventory Route is not on the Base Network
(13) LRS INVENTORY ROUTE, SUBROUTE	
(13A) LRS INVENTORY ROUTE	0001102248
(13B) SUBROUTE NUMBER	00
(16) LATITUDE	44.47993
(17) LONGITUDE	-69.70702
(98A) BORDER BRIDGE CODE	
(98B) PERCENT RESPONSIBILITY	0
(99) BORDER BRIDGE STRUCT NO.	n/a

Structure Type and Material

(43) STRUCTURE TYPE, MAIN	
(43A) KIND OF MATERIAL/DESIGN	4 - Steel continuous
(43B) TYPE OF DESIGN/CONSTR	02 - Stringer/Multi-beam or Girder
(44) STRUCTURE TYPE, APPROACH SPANS	
(44A) KIND OF MATERIAL/DESIGN	0 - Other
(44B) TYPE OF DESIGN/CONSTRUCTION	00 - Other
(45) NUMBER OF SPANS IN MAIN UNIT	4
(46) NUMBER OF APPROACH SPANS	0
(107) DECK STRUCTURE TYPE	1 - Concrete Cast-in-Place
(108) WEARING SURFACE/PROTECTIVE SYSTEMS	
(108A) WEARING SURFACE	6 - Bituminous
(108B) DECK MEMBRANE	2 - Preformed Fabric
(108C) DECK PROTECTION	0 - None

Age of Service

(27) YEAR BUILT	1958
(106) YEAR RECONSTRUCTED	1992
(42) TYPE OF SERVICE	
(42A) TYPE OF SERVICE ON BRIDGE	1 - Highway
(42B) TYPE OF SERVICE UNDER BRIDGE	1 - Highway, with or w/out pedestrian
(28) LANES	
(28A) LANES ON THE STRUCTURE	02
(28B) LANES UNDER THE STRUCTURE	04

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(29) AVERAGE DAILY TRAFFIC	464
(30) YEAR OF AVERAGE DAILY TRAFFIC	2016
(109) AVERAGE DAILY TRUCK TRAFFIC	5
(19) BYPASS DETOUR LENGTH	2

Geometric Data

(48) LENGTH OF MAXIMUM SPAN (ft.)	72.0
(49) STRUCTURE LENGTH (ft.)	249.9
(50) CURB/SIDEWALK WIDTHS	
(50A) LEFT CURB SIDEWALK (ft.)	1.4
(50B) RIGHT CURB SIDEWALK (ft.)	1.4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.1
(52) DECK WIDTH, OUT-TO-OUT (ft.)	29.0
(32) APPROACH ROADWAY WIDTH (ft.)	27.0
(33) BRIDGE MEDIAN	0 - No median
(34) SKEW (deg.)	0
(35) STRUCTURE FLARED	0 - No flare
(10) INV RTE, MIN VERT CLEARANCE (ft.)	328.05
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	24.0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	327.76
(54) MIN VERTICAL UNDERCLEARANCE	
(54A) REFERENCE FEATURE	H - Highway beneath structure
(54B) MIN VERTICAL UNDERCAREANCE (ft.)	14.66
(55) MIN LATERAL UNDER CLEARANCE RIGHT	
(55A) REFERENCE FEATURE	H - Highway beneath structure
(55B) MIN LATERAL UNDER CLEARANCE RIGHT (ft.)	11.15
(56) MIN LATERAL UNDER CLEARANCE (ft.)	7.9

Classification

(112) NBIS BRIDGE LENGTH	Yes
(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0 - Structure/Route is NOT on NHS
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	09 - Rural - Local
(100) STRAHNET HIGHWAY DESIGNATION	Not a STRAHNET route
(101) PARALLEL STRUCTURE DESIGNATION	N - No parallel structure
(102) DIRECTION OF TRAFFIC	2-way traffic
(103) TEMP STRUCTURE	
(105) FEDERAL LANDS HIGHWAYS	Not Applicable
(110) DESIGNATED NATIONAL NETWORK	Inventory route not on network
(20) TOLL	3 - On Free Road
(21) MAINTENANCE RESPONSIBILITY	01 - State Highway Agency
(22) OWNER	01 - State Highway Agency
(37) HISTORICAL SIGNIFICANCE	4 - Not determinable

Condition

(58) DECK	5 - Fair Condition (minor section loss)
(59) SUPERSTRUCTURE	5 - Fair Condition (minor section loss)
(60) SUBSTRUCTURE	5 - Fair Condition (minor section loss)
(61) CHANNEL & CHANNEL PROTECTION	N - Not Applicable
(62) CULVERT	N - Not Applicable

Load Rating and Posting

(31) DESIGN LOAD	4 - H 20
(63) METHOD USED TO DETERMINE OPERATING RATING	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.
(64) OPERATING RATING	0.87
(65) METHOD USED TO DETERMINE INVENTORY RATING	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.
(66) INVENTORY RATING	0.67
(70) BRIDGE POSTING	4 - 0.1-9.9% below legal loads (11-15 tons)
(41) STRUCTURE OPEN/POSTED/CLOSED	P - Posted for Load

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Appraisal

(67) STRUCTURAL EVALUATION	5
(68) DECK GEOMETRY	4
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	3
(71) WATERWAY ADEQUACY	N - Not Applicable
(72) APPROACH ROADWAY ALIGNMENT	6 - Equal to present minimum criteria
(36) TRAFFIC SAFETY FEATURE	
36A) BRIDGE RAILINGS:	0 - Does not meet acceptable standards/safety feature is required
36B) TRANSITIONS:	0 - Does not meet acceptable standards/safety feature is required
36C) APPROACH GUARDRAIL	0 - Does not meet acceptable standards/safety feature is required
36D) APPROACH GUARDRAIL ENDS	0 - Does not meet acceptable standards/safety feature is required
(113) SCOUR CRITICAL BRIDGES	N - Not over waterway

Proposed Improvements

(75) TYPE OF WORK	
(75A) TYPE OF WORK PROPOSED	
(75B) WORK DONE BY	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	
(94) BRIDGE IMPROVEMENT COST (\$K)	
(95) ROADWAY IMPROVEMENT COST (\$K)	
(96) TOTAL PROJECT COST	
(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(114) FUTURE ADT	742
(115) YEAR OF FUTURE ADT	2036

Navigation Data

(38) NAVIGATION CONTROL	N - Not applicable, no waterway
(111) PIER OR ABUTMENT PROTECTION	
(39) NAV VERT CLEARANCE	0
(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE	0
(40) NAV HORIZONTAL CLEARANCE	0

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7.1 Component Condition Ratings

(B.C.05) Bridge Railings	7
(B.C.06) Bridge Railing Transitions	7
(B.C.07) Bridge Bearings	6
(B.C.07) Bridge Joints	5
Bridge Joint Seal	N

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Inspection Notes

Structure Number: 5784

Town: Sidney

Structure Name: DRUMMOND ROAD / I-95

Structure Notes

The bridge was first constructed in 1958, with a reconstruction taking place in 1992.

The superstructure consists of a four span continuous rolled steel girders with a reinforced concrete deck and bituminous wearing surface.

The substructure is comprised of 3 reinforced concrete piers, with 3 square columns per pier, and stub abutments with concrete paver/block slope protection.

Galvanized thrie-beam railing retrofit was installed in 2020. The previous railing was removed from the top of the existing curb & parapet combination, steel offset blocks were bolted to the parapets and thrie-beam guardrail installed flush with the existing curb.

Wearing Surface

The bituminous wearing surface has moderate longitudinal cracking for most of spans 2, 3 & 4.

The bituminous wearing surface has some moderate transverse cracking on span 2.

Deck

NBI Item 58: 5

The underside of the deck exhibits scattered small to large shallow spalling with exposed rebar in all spans.

The deck overhangs on span 2 have some moderate shallow spalls. Spans 3 & 4 have some small shallow spalls. All overhangs have minor map cracking throughout.

The existing haunches extend past the girder flange tips by 4" on each side. Span 2 is over the southbound lanes of I95 and Span 3 is over the northbound lanes of I95. The haunches in spans 2 and 3 have widespread spalling. During the inspection, pieces of concrete haunch were found in left shoulder of the NB barrel of I-95, there is concern that additional pieces of the concrete haunch may break loose potentially over the traffic lanes on I-95. Additional segments of these haunch extensions remain over the live traffic lanes, however it is not possible to sound these segments or investigate in more detail without a lift or snooper and traffic restrictions on I-95.

Superstructure

NBI Item 59: 5

Span 1 - Some minor surface corrosion on top flange, bottom flange & webs of girders. Girder ends and end diaphragms have moderate surface corrosion.

Span 2 - Some moderate surface corrosion on top flanges, bottom flanges & webs of girders.

Span 3 - Some moderate surface corrosion on top flanges, bottom flanges & webs of girders. Impact damage / deformation on girders 4 & 2 over northbound I95 lanes.

Span 4 - Some minor surface corrosion on top flange, bottom flange & webs of girders. Girder ends and end diaphragms have moderate surface corrosion.

All of the diaphragms exhibit light to moderate surface corrosion on the top flange. The diaphragms in span 1, bays 1 and 4 exhibit moderate surface corrosion to the bottom flange. In span 1 there are multiple bottom bolts missing in the diaphragm (See inspection note drawings for exact locations). (Note: Diaphragms are welded in place)

The bearings exhibit minor to moderate surface corrosion with minor paint loss. Bearings 2 and 3 at both abutments have moderate surface corrosion & significant paint loss.

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Substructure

NBI Item 60: 5

Abutment 1:

The abutment backwall has moderate to insignificant map cracking with moisture staining and areas of efflorescence. The bearing seat exhibits wide longitudinal (With bearing seat) cracks, hairline map cracking, scaling and an area of delaminated concrete. Both wingwalls have moderate cracking with scattered insignificant cracking with light efflorescence. The slope protection blocks at the top of the slope are shifted and misaligned with missing mortar. The slope protection has cracking in joints and movement throughout.

Pier 1:

All columns have hairline map cracking with moisture staining for 3 feet high at the groundline.

Pier 2:

All columns have hairline map cracking with moisture staining for 3 feet high at the groundline with a vertical moderate crack on the south face of the southernmost column. The pier cap has two areas of exposed corroded steel reinforcement and associated spalling.

Pier 3:

All columns have scattered light to moderate cracking. The pier cap has isolated exposed corroded steel reinforcement with an area of spalling and delamination.

Abutment 2:

The abutment backwall and beam seat has moderate map cracking throughout its entire length with insignificant map cracking on the wingwalls. The slope protection has areas of settlement, movement and cracked joints between bricks. Due to void behind abutment 2 (See East Approach Notes) and vertical misalignment in open expansion joint, monitor abutment for possible settlement.

Culvert

NBI Item 62: N

Channel

NBI Item 61: N

Other

West Approach:

There is transverse cracking with edge chipping in the bituminous approach occurring every 10' for 50', with an area of map cracking and settlement along the joint header for the full length and in the north shoulder.

East Approach:

There is an area of heavy map cracking along the joint header for the full length along with a deep spall. In the north travel lane, there is a pothole in the approach measuring 4" Dia. at the surface and extending up to 6" Dia. inside and 1'-3" deep. There is moderate settlement with wide longitudinal cracking in the eastbound lane and minor settlement with minor longitudinal cracking in the westbound lane.

Special Inspection

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Monitoring

Monitor Abutment 2 for settlement.

Pontis Notes

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	2 - Low	7134	sq. ft.	0	6884	250	0
107-Steel Open Girder/Beam	3 - Mod.	1004	ft.	0	804	200	0
515-Steel Protective Coating		1004	sq. ft.	0	704	150	150
205-Reinforced Concrete Column	3 - Mod.	9	each	0	9	0	0
215-Reinforced Concrete Abutment	3 - Mod.	58	ft.	0	38	20	0
234-Reinforced Concrete Pier Cap	3 - Mod.	87	ft.	44	35	8	0
304-Open Expansion Joint	2 - Low	50	ft.	25	25	0	0
311-Movable Bearing	3 - Mod.	16	each	0	16	0	0
515-Steel Protective Coating		16	sq. ft.	0	8	4	4
313-Fixed Bearing	3 - Mod.	4	each	0	4	0	0
515-Steel Protective Coating		4	sq. ft.	0	4	0	0
330-Metal Bridge Railing	4 - Sev.	530	ft.	530	0	0	0
515-Steel Protective Coating		530	sq. ft.	530	0	0	0
801-Beam End	2 - Low	8	each	0	6	2	0
820-Reinforced Concrete Wall	2 - Low	40	ft.	0	40	0	0
841-Asphalt Wearing Surface with Membrane	2 - Low	5904	sq. ft.	5844	60	0	0
855-Slope Protection - Concrete	2 - Low	3000	sq. ft.	0	2900	100	0

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MaineDOT Load Rating and Posting

Bridge #: 5784
Bridge Name: DRUMMOND ROAD / I-95
Owner: 01 - State Highway Agency
Co-Owner: N Not applicable
Region: 02 - Mid-Coast

Town1: Sidney
Town2:
Maintainer: 01 - State Highway Agency
Co-Maintainer: N Not applicable

Design Load			Load Rating		
Vehicle:	Operating Rating:	Inventory Rating:	TEDOC Reference: 1691685		
HL-93	0.87	0.67	Controlling Member: interior girder		
HL-93 Modified			Controlling Stress: negative moment		
			Prepared By: HNTB-RAL Date: 04/07/2017		
Legal Load			Load Test		
Config:	Axles:	Weight (Tons):	Rating:	Tons:	
1	6	50	0.99	49.5	
2	6	47	1.11	52.17	
3	5	44	0.98	43.12	
4	5	44	0.99	43.56	
5	5	44	1.00	44	
6	4	38	1.00	38	
7	3	29.5	1.18	34.81	
8	2	18.7	1.75	32.73	
Posting Status			Routine Permit Loads		
: : Posted (Weight in tons) 30			Configuration: Axles: Weight (Tons): Rating: Tons: Status:		
: : Posted for one truck at a time			Tractor w/semi trailer 4 60 0		
: : Posted for 4 axle			Crane 5 65 No Go		
: : Posted for spacing			Crane with dolly 5 68 5 mph		
Date posted 07/01/2024					
Posting Committee			Comments:		
TEDOC Reference: 1600894, 2143186			5/27/2015: RF = 0.91, RT = 40 Tons, Posting Load = 38.34 Tons for Config 3, Interior Girder, Negative Moment.		
			9/16/2015: RF = 0.87 with updated load rating		
			5/3/2017: RF = 0.98, RT = 43.12 Tons, Posting Load = 42.74 tons for Config 3 with advanced analysis.		
			5/16/2024: Post 30 Tons Phase 1 traffic count has been requested.		
			06/05/2024: Phase 1 identified very low traffic and there are multiple crossings so overall minimal impact from posting. Nothing received for phase 2 yet. The Posting Committee recommends proceeding with 30 Ton posting upon receipt of Phase 2.		
			07/01/2024: Posting confirmed by DB.		
			08/07/2024: Bridge is currently posted at 30 Tons but Posting Committee would like the engineering team to further investigate the load rating and see if they come up with different results.		

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Over Limit Report

Bridge #: 5784
Bridge Name: DRUMMOND ROAD / I-95
Owner: 01 - State Highway Agency
Co-Owner: N Not applicable
Region: 02 - Mid-Coast

Town1: Sidney
Town2:
Maintainer: 01 - State Highway Agency
Co-Maintainer: N Not applicable

Vertical Clearance - Under

Left, Center, and Right is based on the direction of travel

Roadway - Heading North or East

Actual Heights in Feet-Inches

Date Measured: 12/06/2022

	<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Posted</u>	<u>Deficient Sign</u>
Main: INTERSTATE 95 NB & SB	14 - 11	14 - 6	14 - 8	Main	-
Other:	-	-	-	Other	-
Ramps:	-	-	-	Ramp	-

Roadway - Heading South or West

Actual Heights in Feet-Inches

Date Measured: 12/06/2022

	<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Posted</u>	<u>Deficient Sign</u>
Main: INTERSTATE 95 NB & SB	15 - 0	15 - 1	15 - 1	Main	-
Other:	-	-	-	Other	-
Ramps:	-	-	-	Ramp	-

Vertical Clearance - Portal

Roadway: DRUMMOND RD

Heading North or East

Actual Heights in Feet-Inches

Date Measured:

<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Posted</u>	<u>Deficient Sign</u>
-	-	-	Portal	-

Heading South or West

Actual Heights in Feet-Inches

Date Measured:

<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Posted</u>	<u>Deficient Sign</u>
-	-	-	Portal	-

Permitting

Pointer

Red Flag Comments

Heading North Height: 14 - 6 2037185-BRPT
Heading South Height: 14 - 10 2037186-BRPT
Left Ramp Height: -
Right Ramp Height: -
Portal North Height: -
Portal South Height: -
Other Road Height: -
Bridge Width: 24.1 ft
Roadway Width: 27.0 ft

Underclearance heights are signed if less than 14 ft 6 in
Check with Maine Turnpike Authority for load heights over 13 ft 6 in
Always check 511

Load Restrictions

Posted Yes 30 tons Date posted: 07/01/2024
Posted One Truck at a Time
Posted for 4 axle only
Operating Load Rating 0.87
Permit Load Ratings Crane 5 axles No Go
Crane with 5 axles 5 mph

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dolly

axles

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Underwater Dive Inspection Report

Structure Number: 5784

Bridge Name: DRUMMOND RD. OVER I-95

Town 1: 11210 - Sidney

Town 2:

Division: Fairfield

DiveID: 4077

Tidal:

Location: .8 MI W 104

Photos:

Tide Information:

Dive Entry Location:

Scour:

Comments/Hazards:

Streambed Description:

Channel Description:

Substructure Description:

Inspection Team:

Role:

Dive Conditions:

Time: Entry: AM/PM

Time: Exit: AM/PM

Water Temp:

Visibility (ft):

Max Depth (ft):

Current:

Weather:

Underwater Inspection Date:

Channel Condition:

Substr/Culvert Condition:

Inspection Cycle:

Ratings Comments:

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Pictures



PHOTO 1 Elevation
Description South Elevation



PHOTO 2 Elevation
Description North Elevation

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PHOTO 3 Condition
Description West Approach



PHOTO 4 Condition
Description West Approach - North guardrail

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PHOTO 5 Condition

Description West Approach - South guardrail



PHOTO 6 Condition

Description West Approach - South guardrail, impact deformation

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PHOTO 7 Condition

Description West Approach - Large transverse cracks & some longitudinal cracking



PHOTO 8 Condition

Description West Approach

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PHOTO 9 Condition

Description West Approach - Westbound lane, heavy map cracking & settlement



PHOTO 10 Condition

Description West Approach - North guardrail transition, map cracking & settlement prior to Abutment 1 backwall

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PHOTO 11 Condition

Description West Approach - South guardrail transition, map cracking & settlement prior to Abutment 1 backwall



PHOTO 12 Condition

Description Finger Joint over Abutment 1 - Looking South

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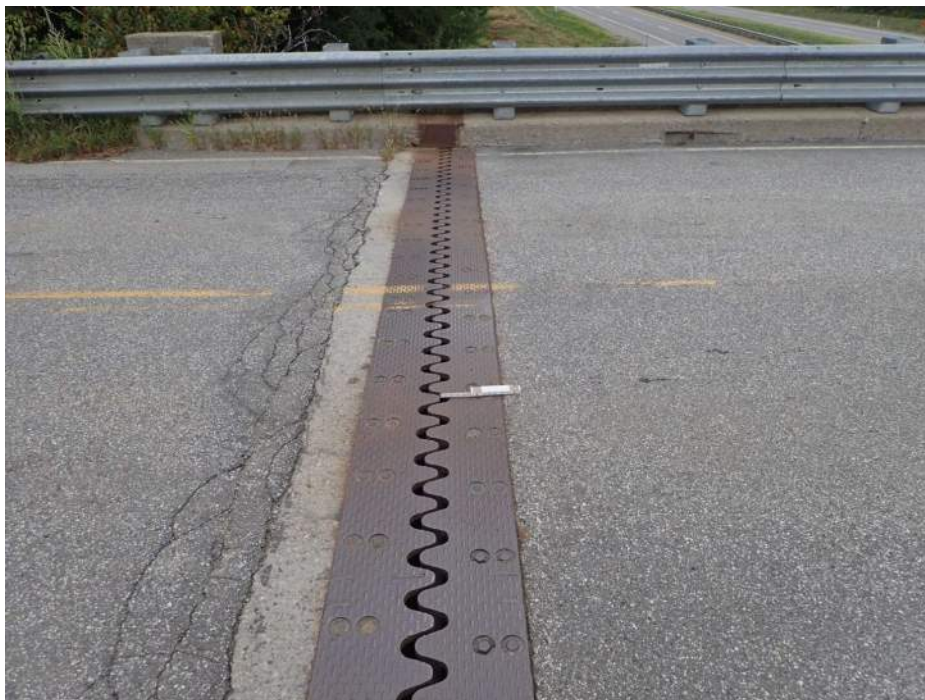


PHOTO 13 Condition

Description Finger Joint over Abutment 1 - Looking North, 53 deg F, 1 3/4" opening



PHOTO 14 Condition

Description Bridge Deck & North Railing - West to East photo 1 of 4

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PHOTO 15 Condition

Description Bridge Deck & North Railing - West to East photo 2 of 4



PHOTO 16 Condition

Description Bridge North Deck & Railing - West to East photo 3 of 4

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PHOTO 17 Condition

Description Bridge Deck & North Railing - West to East photo 4 of 4



PHOTO 18 Condition

Description Finger Joint over Abutment 2 - Looking North, 53 deg F, 1 3/4" opening, map cracking and spalling of pavement on approach side at backwall

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PHOTO 19 Condition

Description Finger Joint over Abutment 2 - North gutterline, 53 deg F, +/- 1 1/2" opening, Fingers on Abutment side are +/- 1/4" higher than bridge side.

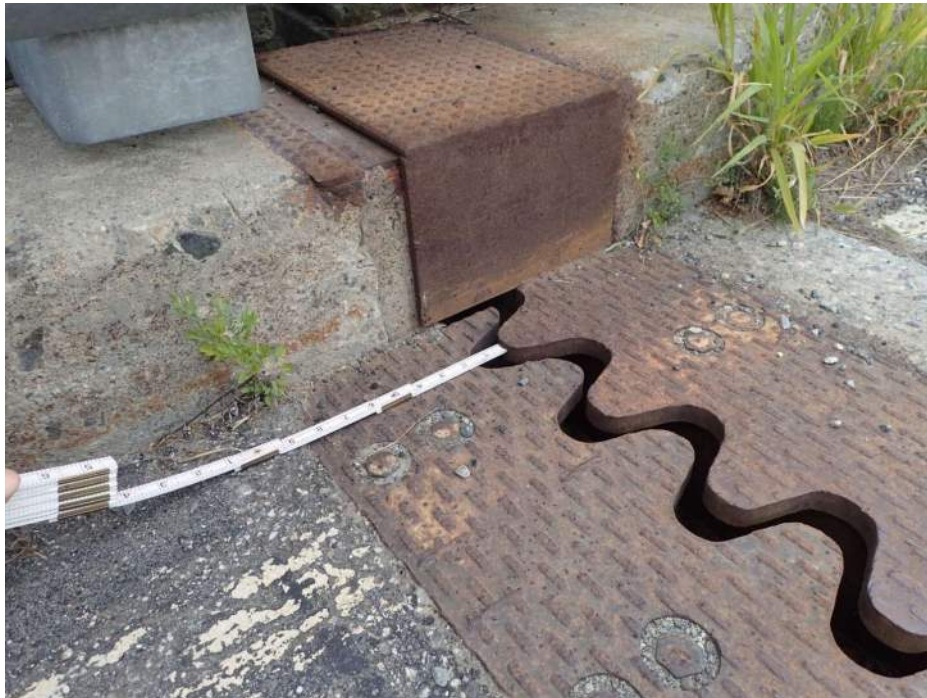


PHOTO 20 Condition

Description Finger Joint over Abutment 2 - North curb expansion dam

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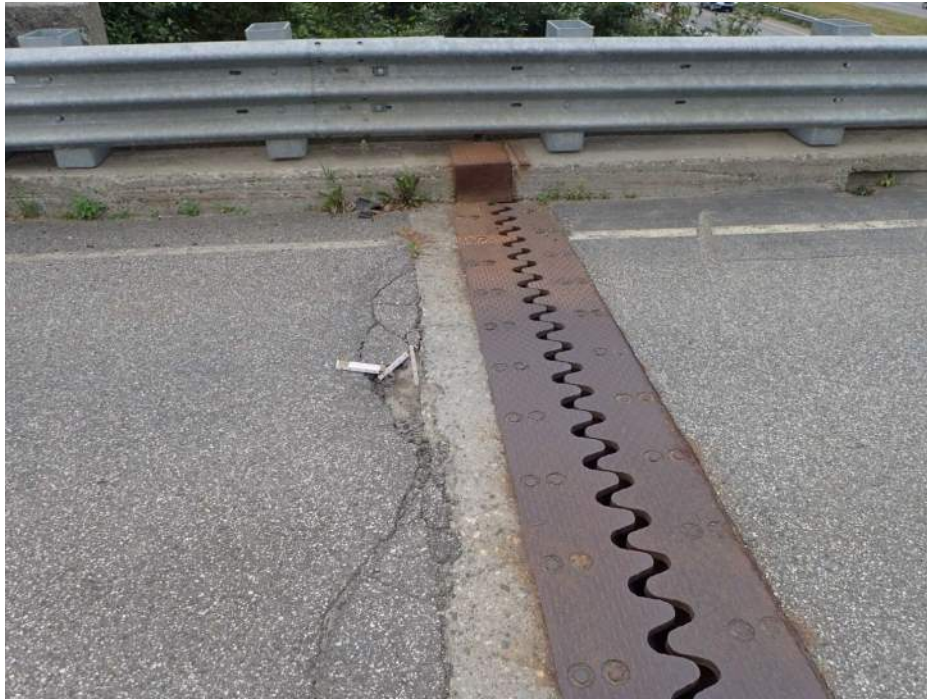


PHOTO 21 Condition

Description Finger Joint over Abutment 2 - Looking South, map cracking and spalling of pavement on approach side at backwall



PHOTO 22 Condition

Description Bridge Deck & South Railing - East to West photo 1 of 4

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Highway Bridge Inspection Report

Pictures



PHOTO 23 Condition

Description Bridge Deck & South Railing - East to West photo 2 of 4

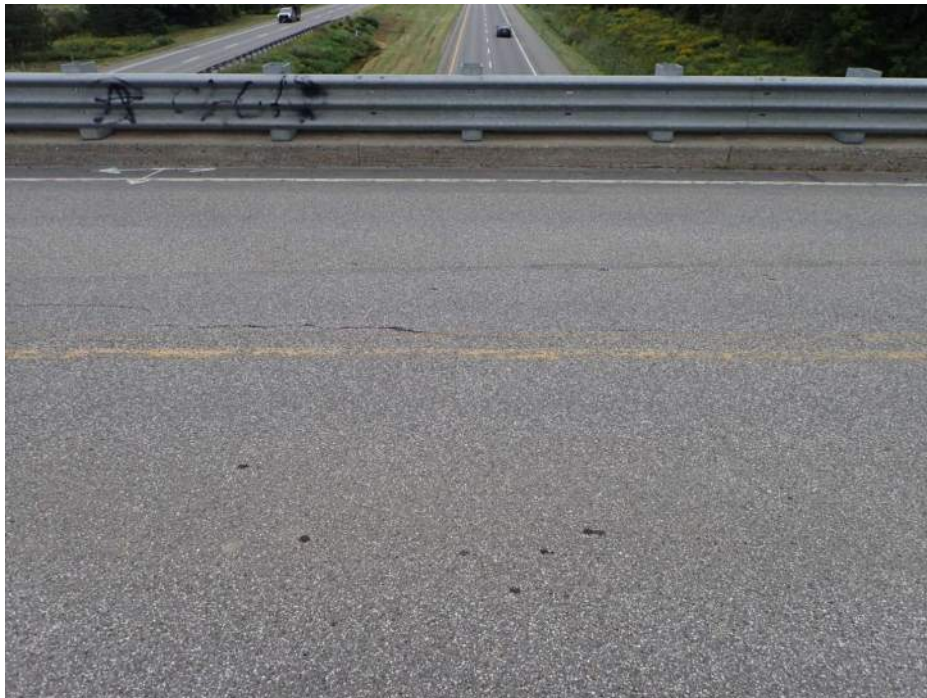


PHOTO 24 Condition

Description Bridge Deck & South Railing - East to West photo 3 of 4

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 25 Condition

Description Bridge Deck & South Railing - East to West photo 4 of 4



PHOTO 26 Condition

Description Typical Bridge Drain

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 27 Condition

Description Typical retrofitted bridge post



PHOTO 28 Condition

Description Retrofitted bridge railing, posts secure by bolting posts to existing railing - typical

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 29 Condition

Description Interstate 95 running under bridge - South view



PHOTO 30 Condition

Description Interstate 95 running under bridge - North view

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 31 Condition

Description East Approach - Longitudinal wide cracking & settling in outer wheel path of Eastbound lane, full length of approach roadway. Photo 1 of 3



PHOTO 32 Condition

Description East Approach - Photo 2 of 3

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 33 Condition

Description East Approach - Photo 3 of 3



PHOTO 34 Condition

Description East Approach - South guardrail transition

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 35 Condition

Description East Approach - North guardrail transition



PHOTO 36 Condition

Description East Approach - Westbound lane at North guardrail transition, boring washing out. Opening 4" dia. through pavement, hole is large under pavement, approximately 6" in diameter inside and 1'- 3" deep. Photo 1 of 2

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 37 Condition

Description East Approach - Photo 2 of 2



PHOTO 38 Condition

Description Abutment 1 bank protection - intact but with heavy vegetation & cracking of joints.

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 39 Condition

Description Abutment 1 bank protection - intact but with heavy vegetation & cracking of joints.



PHOTO 40 Condition

Description Abutment 1 South return wall

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 41 Condition

Description Abutment 1 - Bay 3, Gdr 4 bearing, Gdr 3 bearing, map cracking on backwall & large crack on breastwall



PHOTO 42 Condition

Description Abutment 1 - Gdr 3 rocker bearing

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 43 Condition

Description Abutment 1 - diaphragm at end of deck, rust on joint side, typical



PHOTO 44 Condition

Description Abutment 1 - Bay 2, Gdr 3 bearing, Gdr 2 bearing, map cracking on backwall & large crack on breastwall

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 45 Condition

Description Abutment 1 - Gdr 2 rocker bearing



PHOTO 46 Condition

Description Abutment 1 - Bay 1, Gdr 2 bearing, Gdr 1 bearing, map cracking & efflorescence on backwall

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 47 Condition

Description Abutment 1 North return wall



PHOTO 48 Condition

Description Span 1 - Underside of deck & steel framing, looking towards Abutment 1, small spall with ECSR

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 49 Condition

Description Span 1 - Underside of deck & steel framing, looking towards Pier 1, note spall with Exposed Corroded Steel Reinforcement (ECSR) - See next Photo for closeup.



PHOTO 50 Condition

Description Span 1 - Underside of deck, spall with ECSR

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 51 Condition

Description Span 1 - Underside of deck & steel framing, looking towards Pier 1, small spalls with ECSR



PHOTO 52 Condition

Description Pier 1 West elevation

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 53 Condition

Description Pier 1 North end - map cracking from ground level up 4'



PHOTO 54 Condition

Description Pier 1 East elevation

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 55 Condition

Description Pier 1 East elevation - map cracking from ground level up 3' to 5'



PHOTO 56 Condition

Description Pier 1 South end

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 57 Condition

Description Span 2 over I95 SB - North Fascia, clearance marked as 14'-5"



PHOTO 58 Condition

Description Span 2 over I95 SB - looking East, deck was constructed with haunches that extends past girder top flange 4" each side. Much of the haunch has spalled off. Some areas are still intact over the roadway.

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 59 Condition

Description Span 2 over I95 SB - South fascia & overhang



PHOTO 60 Condition

Description Span 2 over I95 SB - South fascia & overhang, small spalls with ECSR

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 61 Condition

Description Span 2 over I95 SB - Underdeck & Framing, looking West



PHOTO 62 Condition

Description Span 2 over I95 SB - Bay 1 over Pier 1, spall with ECSR

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 63 Condition

Description Span 2 over I95 SB - North fascia, note paint condition, also small spalls with ECSR



PHOTO 64 Condition

Description Pier 2 - West Elevation

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 65 Condition

Description Pier 2 - West Elevation, spall with ECSR



PHOTO 66 Condition

Description Pier 2 - West Elevation, map cracking from ground up approximately 3' - 4'

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 67 Condition

Description Pier 2 - North End - Map cracking from ground up approximately 3', some minor cracking on pier cap end



PHOTO 68 Condition

Description Pier 2 - East Elevation

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 69 Condition
Description Pier 2 - South End



PHOTO 70 Condition
Description Pier 2 - South End, vertical moderate crack (+/- 0.08"), typical of cracks on Piers

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 71 Condition

Description Span 3 over I95 NB - North fascia, much of haunch has spalled but there are several areas where the haunch is still intact (typical)



PHOTO 72 Condition

Description Span 3 over I95 NB - looking West, spalls with ECSR

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 73 Condition

Description Span 3 over I95 NB - looking East, spalls with ECSR, next photo is closeup of bay 2 & 3 spalls



PHOTO 74 Condition

Description Span 3 over I95 NB - 2 & 3 spalls

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures

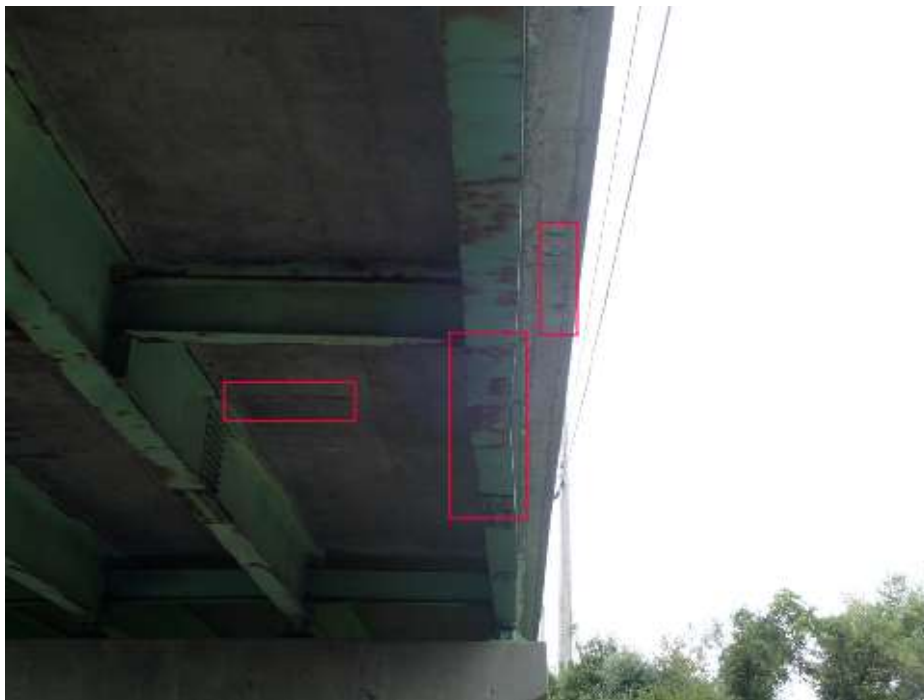


PHOTO 75 Condition

Description Span 3 over I95 NB - Girder 4 impact damage & spalls with ECSR



PHOTO 76 Condition

Description Span 3 over I95 NB - Girder 4 impact damage

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 77 Condition

Description Span 3 over I95 NB - Girder 4 impact damage, vertical clearance marked at 14'-5"



PHOTO 78 Condition

Description Span 3 over I95 NB - Girder 4 impact damage

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 79 Condition

Description Span 3 over I95 NB - Girder 4 impact damage



PHOTO 80 Condition

Description Span 3 over I95 NB - some haunch that has recently spalled off. Found on left shoulder. Issue reported to MaineDOT. Much of the haunch is still in place over the lanes posing a potential hazard to motorists.

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 81 Condition
Description Pier 3 - West elevation



PHOTO 82 Condition
Description Pier 3 - West elevation

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 83 Condition

Description Pier 3 - North End



PHOTO 84 Condition

Description Pier 3 - East elevation

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 85 Condition
Description Pier 3 - South End



PHOTO 86 Condition
Description Span 4 - Deck underside & framing, looking East to Abutment 2

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 87 Condition

Description Span 4 - Deck underside & framing, looking West to Pier 3



PHOTO 88 Condition

Description Abutment 2 bank protection - intact but with heavy vegetation, heaving & cracking of joints.

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 89 Condition

Description Abutment 2 - North return wall



PHOTO 90 Condition

Description Abutment 2 - Girder 1 rocker bearing

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 91 Condition

Description Abutment 2 - Bay 1, Girder 1 & 2, map cracking on backwall & wide cracking on breast wall



PHOTO 92 Condition

Description Abutment 2 - Girder 2 rocker bearing

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 93 Condition

Description Abutment 2 - - Bay , Girder 2 & 3, light map cracking on backwall



PHOTO 94 Condition

Description Abutment 2 - Girder 3 rocker bearing

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 95 Condition

Description Abutment 2 - Bay 3, Girder 3 & 4, light map cracking on backwall & breastwall



PHOTO 96 Condition

Description Abutment 2 - Girder 4 rocker bearing

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 97 Condition

Description Abutment 2 - Girder 4 end



PHOTO 98 Condition

Description Abutment 2 - South return wall

Inspector: TYLIN TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Pictures



PHOTO 99 Condition
Description Abutment 2 - rusting on joint side of diaphragm, typical

Inspector: TYLIN,TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Maintenance Work Items

Structure Number: 5784

Structure Name: DRUMMOND ROAD / I-95

Town: 11210

Owner: TYLIN,TYLIN

Type	Work Item	Priority	Notes
Maintenance	Repair Joint	1	Install headers
Preservation	Rehab Substructure	2	Seal exposed substructure concrete
Capital	Repair Accident Damage		Repair impact damage at I-95 NB span south girder
Capital	Paint		
Preservation	Other		Apply Silane
Preservation	Coat Beam Ends		
Safety	Remove Delams Over Traffic		Remove excess haunch concrete between Pier 1 and 3, over traffic
Maintenance	Other		Repair and fill void in east approach

Inspector: TYLIN, TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

MaineDOT NBIS Bridge Safety Inspection JSA

Inspector: TYLIN, TYLIN
Team Lead: Jeffrey Legere
Structure Number: 5784
Structure Name: DRUMMOND ROAD / I-95
Town: Sidney

Additional Team Members/Visitors:

- | | |
|------------------------|-----|
| 1.) Nicholas DiMariano | 6.) |
| 2.) | 7.) |
| 3.) | 8.) |
| 4.) | 9.) |
| 5.) | |

Job being performed:

Routine Inspection

Potential Hazard:

✓ Exposure to traffic

Potential Hazard:

✓ Steep slopes and uneven working areas
(rip rap, mud, loose fill, etc)

Potential Hazard:

✓ Chipped Concrete or Steel (hand tools only)

Potential Hazard:

✓ 6' Vertical drops

Potential Hazard:

- Water Hazards
 - Water depth under 1 foot
 - Water depth 1 to 4 feet
 - Water depth over 4 feet
 - Water flow calm/slow moving
 - Water flow visible/not rapid
 - Water flow rapid with some short falls
 - Tidal Water

Controls:

- ✓ Parked off road with strobe
- Less than 1 hour on bridge
- ✓ Wear standard reflective clothing and hard hat
- Spotter • Traffic Control Crew

Controls:

- ✓ Wear appropriate, prudent footwear
- Rope or fall protection

Controls:

- ✓ Wear appropriate, prudent eye/hand protection

Controls:

- ✓ Stay away from areas

Controls:

- Evaluate Water Hazard conditions
- Use/Wear appropriate PPE
- Buddy System

Inspector: TYLIN, TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Potential Hazard:

☑ Insects, Poison Ivy, or other environmental hazards

Controls:

☑ Apply insect repellent and/or sunscreen

☑ Protect skin with appropriate, prudent clothing

Potential Hazard:

☑ Lead paint and Avian excrement

Controls:

☑ Wear gloves, do not scrape

Potential Hazard:

☐ Heavy Manual Lifting

Controls:

☐ Ask for assistance in donning dive gear,
lifting equipment

Potential Hazard:

☐ DCS, Lung Expansion

Controls:

☐ Ascend slowly, use computers, Safety Stops
(15' mark for 3 min.)

Potential Hazard:

☐ Entanglement U/W

Controls:

☐ Use knife, Comm gear

Potential Hazard:

☐ Boat Traffic

Controls:

☐ Fly Dive Flag, use spotter, contact bridge
on Chan. 13

Potential Hazard:

☐ Cold Water

Controls:

☐ Use adequate dry suit underwear
for water temperature

Potential Hazard:

☐ Live Boating

Controls:

☐ Keep track of divers, avoid powering during
drop-off/pick-up

Other Potential Hazards:

Other Controls:

Inspector: TYLIN, TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Safety Equipment Required:

<input checked="" type="checkbox"/> Hard hat	<input type="checkbox"/> Sunscreen
<input checked="" type="checkbox"/> Vest	<input checked="" type="checkbox"/> First Aid
<input checked="" type="checkbox"/> Glasses	<input type="checkbox"/> O2
<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> AED
<input type="checkbox"/> PFD	<input type="checkbox"/> Comm Gear
<input type="checkbox"/> Rain Gear	<input checked="" type="checkbox"/> Cell Phone
<input checked="" type="checkbox"/> Bug Spray	<input type="checkbox"/> Boat

Emergency Action Plan:

<input checked="" type="checkbox"/> Call 911
<input checked="" type="checkbox"/> First Aid Kit
<input type="checkbox"/> Fall Rescue Plan
<input type="checkbox"/> Water Rescue Plan
<input type="checkbox"/> Dan 1-919-684-9111
<input type="checkbox"/> USCG 741-5465

Other Safety Equipment:

--

Other Emergency Action Plan:

--

I certify that the MaineDOT NBIS Bridge Safety Inspection JSA has been completed according to all proper procedures required by the Maine Department of Transportation.
☒ Complete Jeffrey Legere

Inspector: TYLIN, TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Bridge Components

Bridge #: 5784
Bridge Name: DRUMMOND ROAD / I-95
Owner: 01 - State Highway Agency
Co-Owner: N Not applicable
Region: 02 - Mid-Coast

Town1: Sidney
Town2:
Maintainer: 01 - State Highway Agency
Co-Maintainer: N Not applicable

Deck

<u>Joint Seal Type/MFG:</u>	<u>Joint Types:</u>	<u>Joint HDR Mat:</u>	<u>Other:</u>	<u>Rebar Type:</u>
<input type="checkbox"/> Emseal	<input type="checkbox"/> Finger	<input type="checkbox"/> Sliding	<input type="checkbox"/> Concrete	<input type="checkbox"/> Curtain
<input type="checkbox"/> V Seal	<input type="checkbox"/> Asphaltic Plug	<input type="checkbox"/> Transflex	<input type="checkbox"/> Delcrete	<input type="checkbox"/> Troughs
<input type="checkbox"/> Watson Bowman	<input type="checkbox"/> Compression	<input type="text" value="50"/> Open	<input type="checkbox"/> Elastomeric	<input type="checkbox"/> Armor
<input type="checkbox"/> Hot Rubber	<input type="checkbox"/> Modular		<input type="checkbox"/> LP Concrete	
<input type="checkbox"/> Pour-in-Place	<input type="checkbox"/> Gland		<input type="checkbox"/> Phoscrete	
<input type="checkbox"/> DS Brown	<input type="checkbox"/> Waybo Crete		<input type="checkbox"/> Plycrete	

Superstructure

<u>Left Side Rail:</u>			<u>Right Side Rail:</u>		
Material	Aluminum	<input type="checkbox"/> Retrofit	Material	Aluminum	<input type="checkbox"/> Retrofit
Shape	Round	<input checked="" type="checkbox"/> Safety Walk	Shape	Round	<input checked="" type="checkbox"/> Safety Walk
Attached To	Parapet	<input type="checkbox"/> Pales	Attached To	Parapet	<input type="checkbox"/> Pales
Number of Bars	2	<input type="checkbox"/> Snow Fence	Number of Bars	2	<input type="checkbox"/> Snow Fence
Extra Height	N		Extra Height	N	
<u>Bearing Type Quantity:</u>			<u>Fatigue Prone Detail:</u>		
<input type="checkbox"/> Disk	<input type="checkbox"/> Elastomeric	<input type="checkbox"/> Narrow Cover Plate - Sq End Welded	<input type="checkbox"/> Narrow Cover Plate - Tapered End Welded		
<input type="checkbox"/> Pot	<input type="checkbox"/> Rocker	<input type="checkbox"/> Narrow Cover Plate - Sq End w/o Weld	<input type="checkbox"/> Narrow Cover Plate - Tapered End w/o Weld		
<input type="checkbox"/> Roller	<input type="checkbox"/> Sliding Plate	<input type="checkbox"/> Wide Cover Plate - Sq End Welded	<input type="checkbox"/> Longitudinal Stiffener - Welded with Radius		
<u>Other:</u>		<input type="checkbox"/> Wide Cover Plate - Sq End w/o Weld	<input type="checkbox"/> Longitudinal Stiffener - Welded w/o Radius		
<input type="checkbox"/> Pin Quantity		<input type="checkbox"/> Lateral Connection Plate - Welded	<input type="checkbox"/> Hoan Detail		
<input type="checkbox"/> Pin and Link Quantity					

Substructure

- ☐ Pier Collars
- ☐ Abutment Collars
- ☐ Wood Piles
- ☐ Steel Piles
- ☐ Blocked Bridge

Retaining Wall Type:

Other

- ☐ Confined Space
- ☐ Bridge Lighting
- ☐ Cat Walk
- ☐ Navigational Lighting
- ☐ Signs Attached

General Notes

Inspector: TYLIN, TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Bridge Preservation

Bridge #: 5784
Bridge Name: DRUMMOND ROAD / I-95
Owner: 01 - State Highway Agency
Co-Owner: N Not applicable
Region: 02 - Mid-Coast

Town1: Sidney
Town2:
Maintainer: 01 - State Highway Agency
Co-Maintainer: N Not applicable

Deck			Common Preservation	
<u>NBI Deck Information:</u>		<u>Wearing Surface:</u>	<u>Paint Information:</u>	<u>Anodes:</u>
Deck Type	1 - Concrete Cast-in-Place	Type 6 - Bituminous	Type	<input type="checkbox"/> Installed
Deck Protection	0 - None	Last Date 1992	Last Date 1993	<input type="checkbox"/> Detached
Membrane Type	2 - Preformed Fabric	Lifespan (Yrs) 25	Lifespan (Yrs)	<input type="checkbox"/> Replace
		Next Date Est. 2017	Next Date Est. 2018	
		Mill & Fill Date		
Superstructure				
<u>Beam Ends Paint:</u>	<u>Bearings Paint:</u>	<u>Bearings Lubrication:</u>	<u>Concrete-Silane:</u>	<u>Washing:</u>
Last Date	Last Date 2018	Last Date 0	Last Date	<input checked="" type="checkbox"/> Required
Next Date Est.	Next Date Est. 2	Next Date Est. 2028	Next Date Est. 1993	<input type="checkbox"/> UBIT
<u>Beam Ends Fluid Film:</u>	<u>Bearings Fluid Film:</u>	<u>Treatment:</u>	<u>Concrete-Linseed</u>	
Last Date	Last Date	<input type="checkbox"/> Core 10	Last Date	
Next Date Est.	Next Date Est. 10	<input type="checkbox"/> Galvanized	Next Date Est.	
		<input type="checkbox"/> Metalized	<input type="checkbox"/> Alkali-Silica reactivity	
Substructure				
General Notes				

Inspector: TYLIN, TYLIN
Inspection Date: 09/06/2024

Structure Number: 5784
Facility Carried: DRUMMOND RD

Highway Bridge Inspection Report

Critical Finding Form

Critical Finding History

Bridge #: 5784
Bridge Name: DRUMMOND ROAD / I-95
Owner: 01 - State Highway Agency
Co-Owner: N Not applicable
CF on NSTM Member ?

Date of Discovery

Bridge Operational Status Due to CF(s) A

General Cause of CF(s) J

Detailed Description of Critical Finding

If "Other" Selected, Please Explain

Immediate Action(s)
Taken to Address Critical Finding?

Conclusion

Is the Critical Finding Resolved ?

Date Resolved

Which NBI general condition rating is affected ?

Detail the response type, resolution, timelines and long term plan for the bridge

Date (or anticipated date) of Permanent Resolution

Critical Finding Reference

FHWA criteria for reporting Critical Findings

FHWA shall be notified within 24 hours of any critical finding and the activities taken, underway, or planned to resolve or monitor the critical finding. Update FHWA regularly or as requested on the status of each critical finding until it is resolved. Monthly make available the information to provide a written report to FHWA with a summary of the status of the resolutions for each critical finding identified within that month or unresolved from previous months.

Maine DOT Critical Finding notification procedure

The following procedures are to be used when a critical inspection finding is reported by the Bridge Inspector, Bridge Maintenance Manager, or other source when the Deck, Superstructure, or Substructure or Culvert having a NBI rating of 2 or less.

1. The Bridge Inspector or Bridge Manager shall report any finding that may be of a critical nature to their immediate supervisor, the Assistant Bridge Maintenance Engineer, and the Bridge Maintenance Engineer.
2. The Assistant Bridge Maintenance Engineer or the Bridge Maintenance Engineer will assess the finding and take the appropriate action.
3. If the action requires restricting or closing the bridge, the following will be notified:

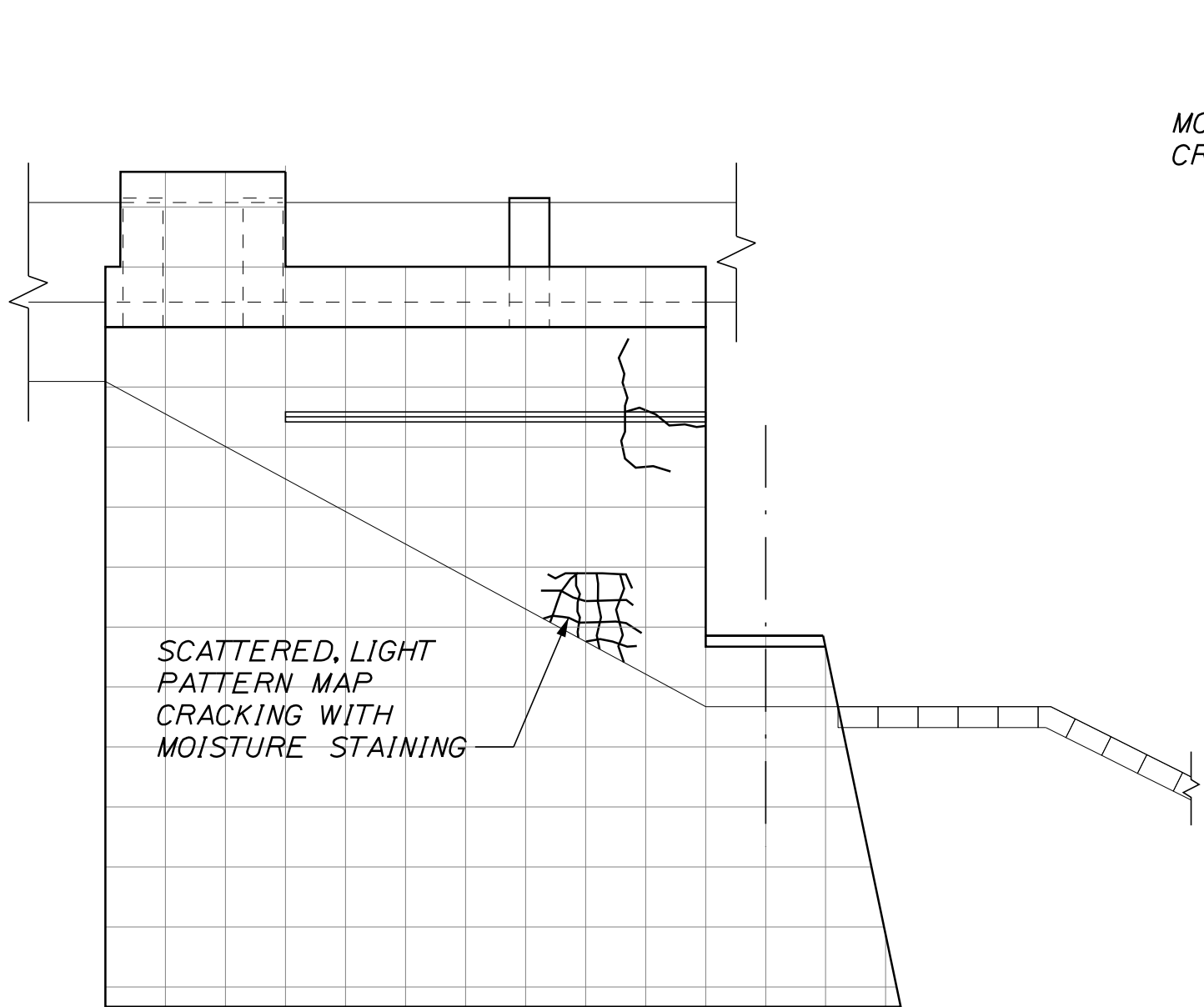
- Director of Maintenance and Operations
- Division Engineer
- Permit Section
- Federal Highway Bridge Engineer

1. If the bridge is not under State jurisdiction, the bridge owner will be notified by the Bridge Inspector, Bridge Maintenance Manager, Assistant Bridge Maintenance Engineer, or the Bridge Maintenance Engineer by telephone or in writing, depending on the urgency.
2. Follow-up on action taken by the bridge owner will be made depending on the seriousness of the findings as determined by the Assistant Bridge Maintenance Engineer or the Bridge Maintenance Engineer.
3. Bridges under State jurisdiction will be restricted and/or repaired through the direction of the Assistant Bridge Maintenance Engineer.
4. Reports of deficiencies (critical or otherwise) from other sources will be handled in the same manner.

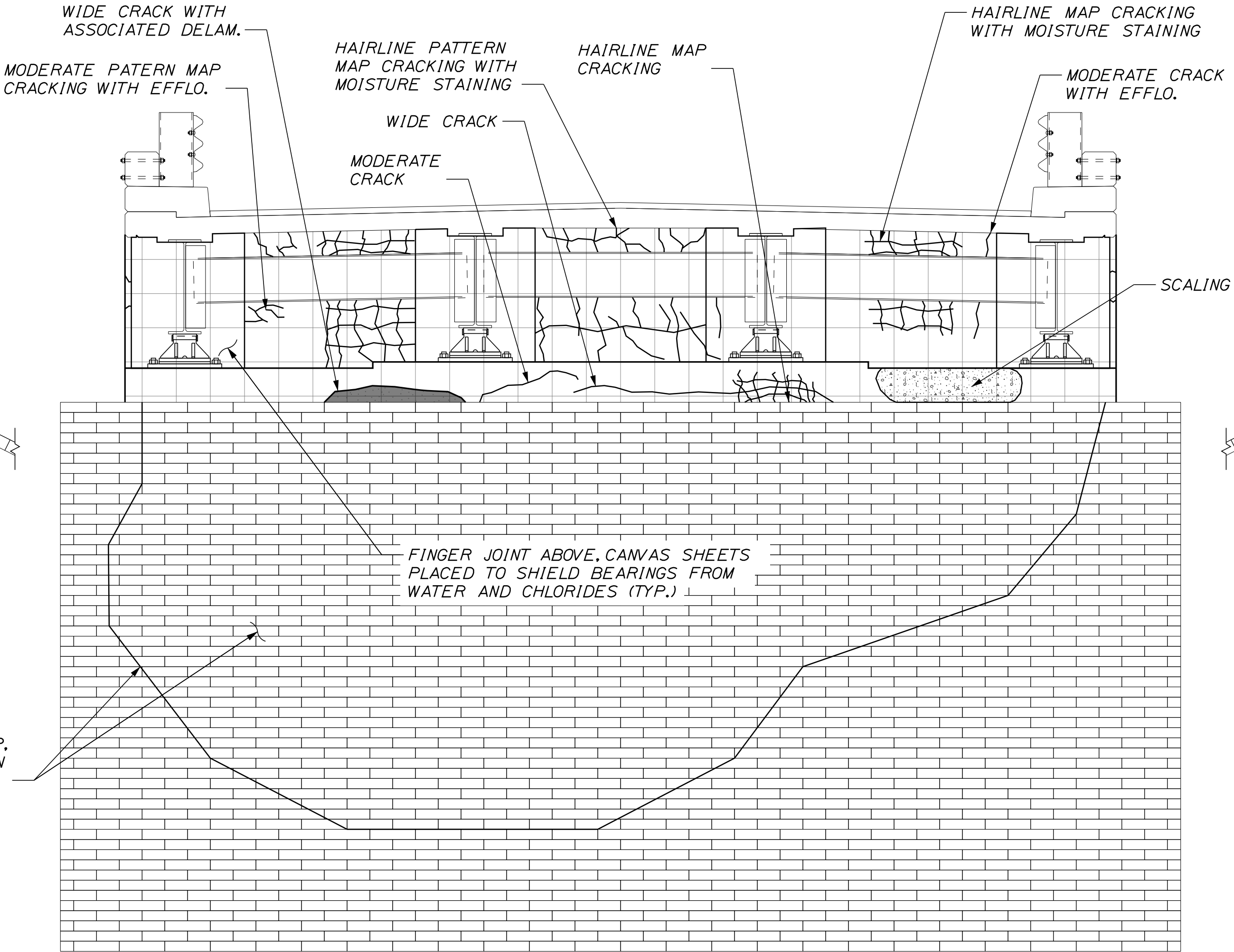
Note: A critical finding is a major defect in the superstructure or substructure which, if not repaired immediately, may require the closing or partial closing of a bridge, and could lead to the total collapse of the structure. Repairs should be completed within a few days.

Plan & Elevation Sketches with 9/06/2024 Inspection Notes

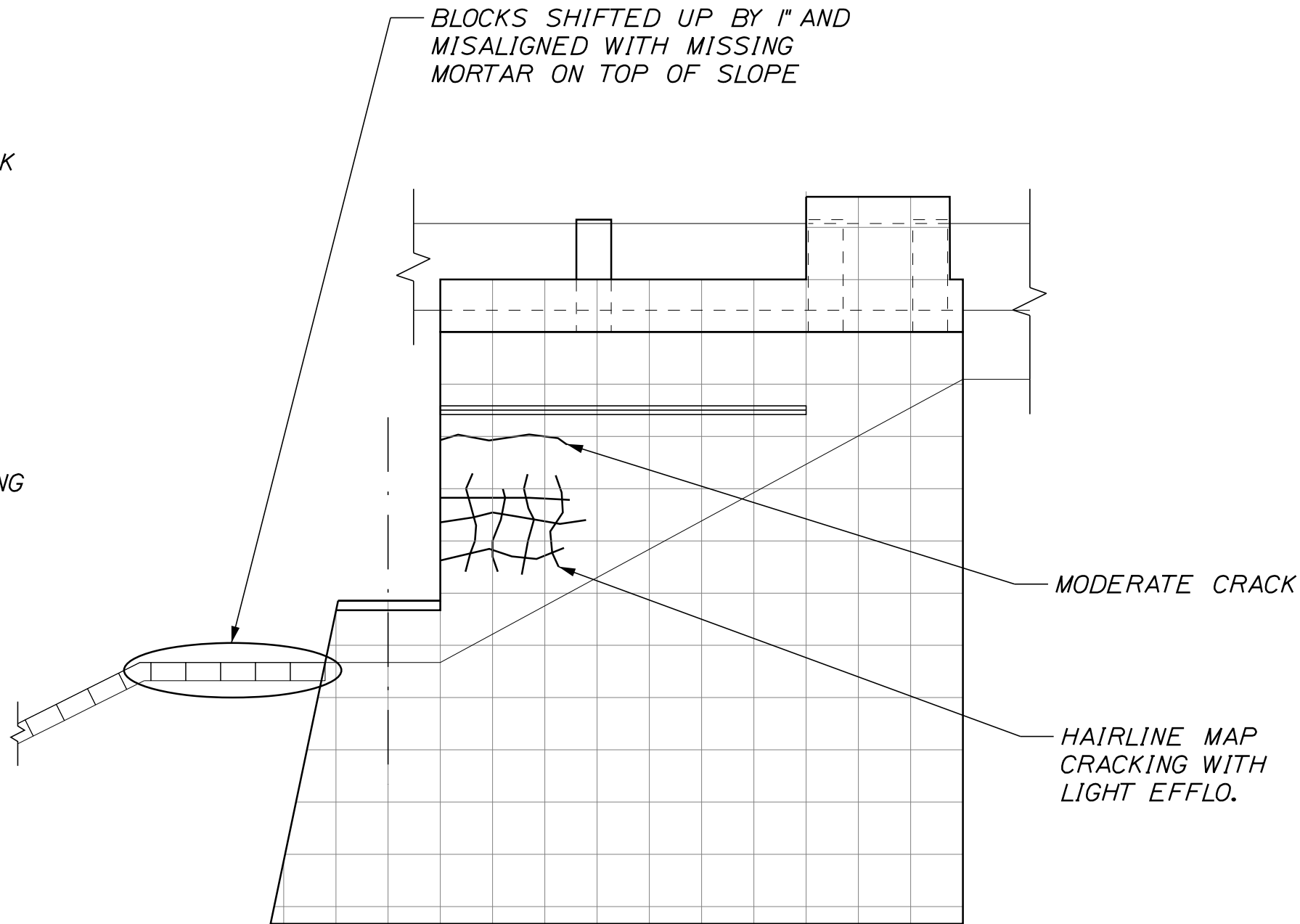
BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



SW RETAINING WALL



ABUTMENT NO. 1 ELEVATION



NW RETAINING WALL

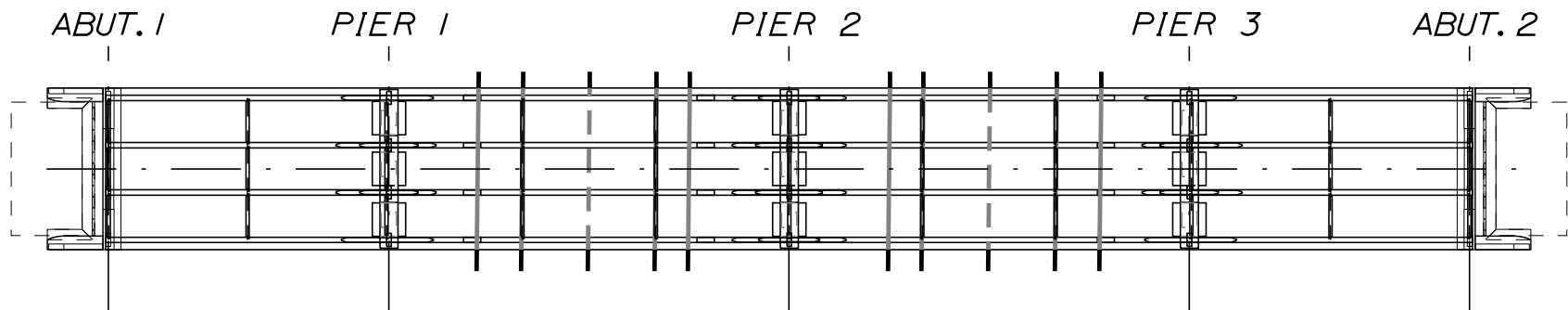
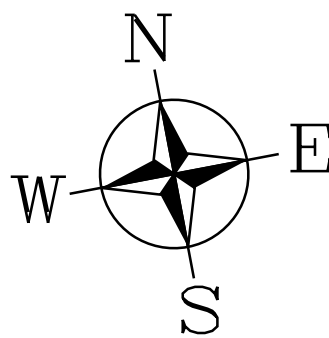
BEARING NOTES

1. BEARINGS 2 & 3 EXHIBIT HEAVY SURFACE CORROSION ON ALL ELEMENTS, AND SOME SCATTERED PACK RUST.
2. BEARINGS 2 & 3 EXHIBITS HEAVY LAMINAR CORROSION ON BEARING PLATE, BOLTS AND NUTS, BOTTOM OF ROCKER PLATES AND BOTTOM SURFACE INTERFACE.
3. BEARINGS 1 & 4 EXHIBIT LIGHT SURFACE CORROSION TO MASONRY PLATE.

SLOPE IS IN GOOD CONDITION WITH MINOR DEBRIS BUILD-UP, HEAVY VEGETATION GROWTH IN JOINTS BELOW LINE

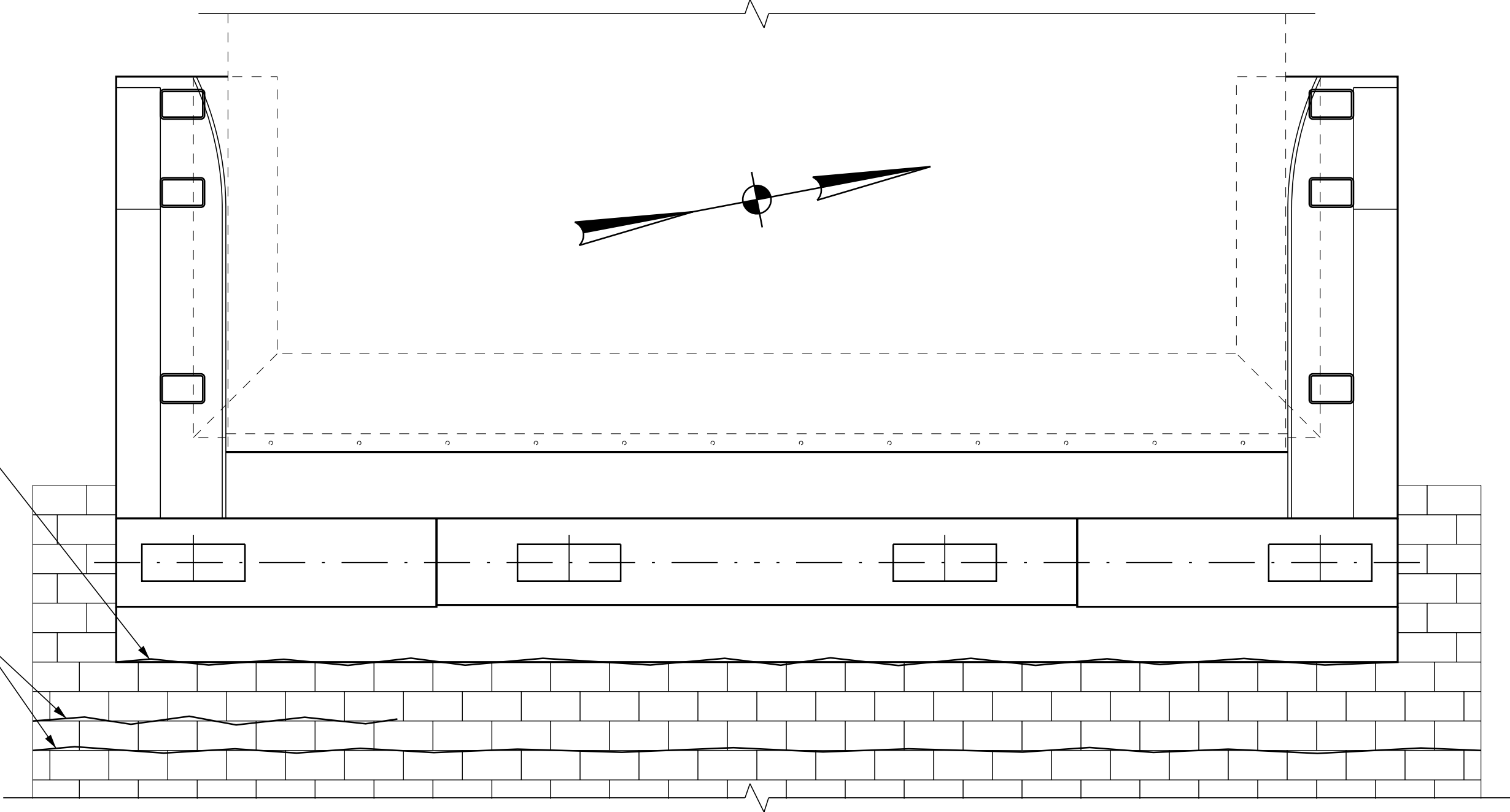
LEGEND:

- : SPALL
- : DELAMINATION
- : EFFLORESCENCE
- : SCALING
- : RUST STAINING
- : PATCH
- : EGL (EXISTING GROUND LEVEL)



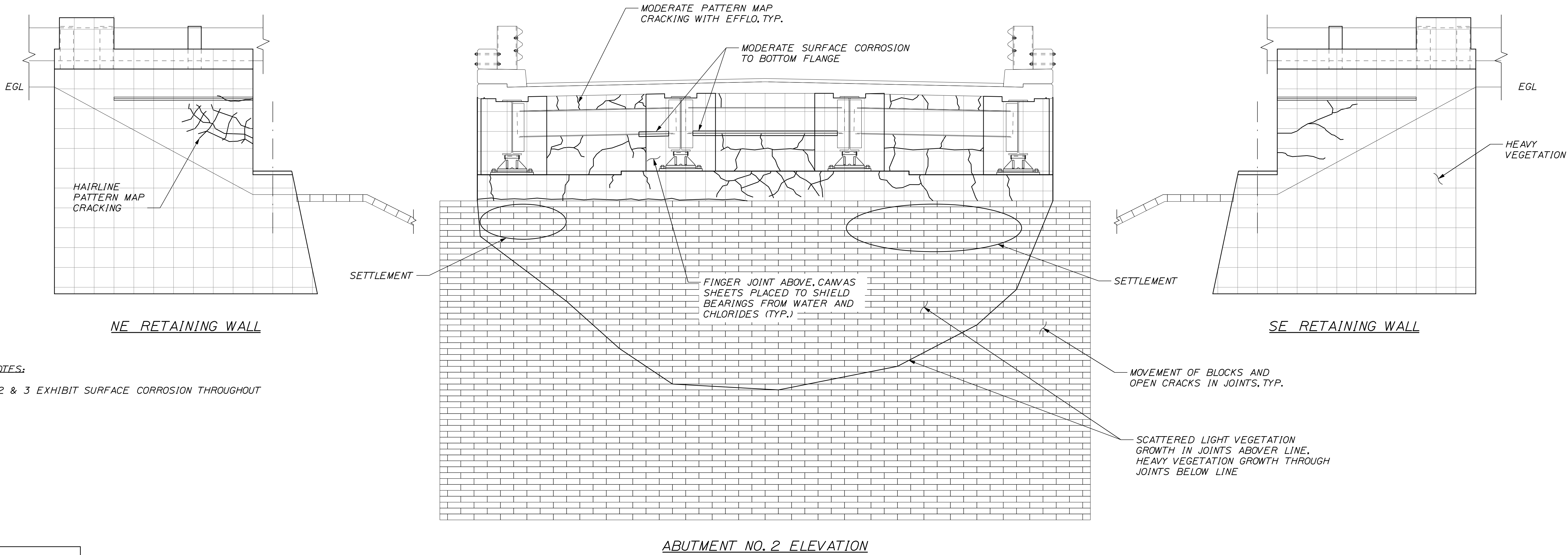
BROKEN MORTAR WITH UP TO .75" SEPARATION

BROKEN MORTAR



ABUTMENT NO. 1 PLAN

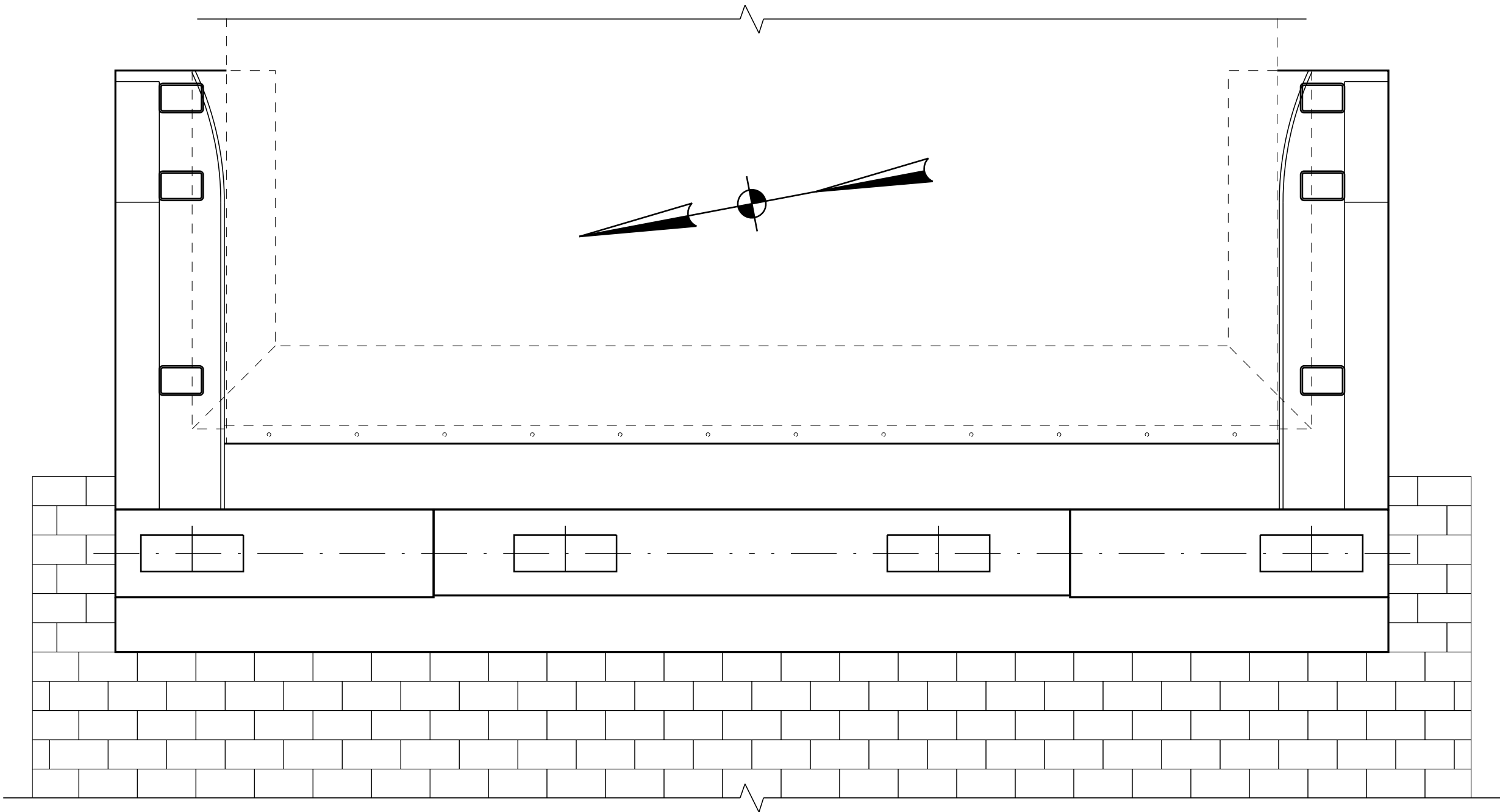
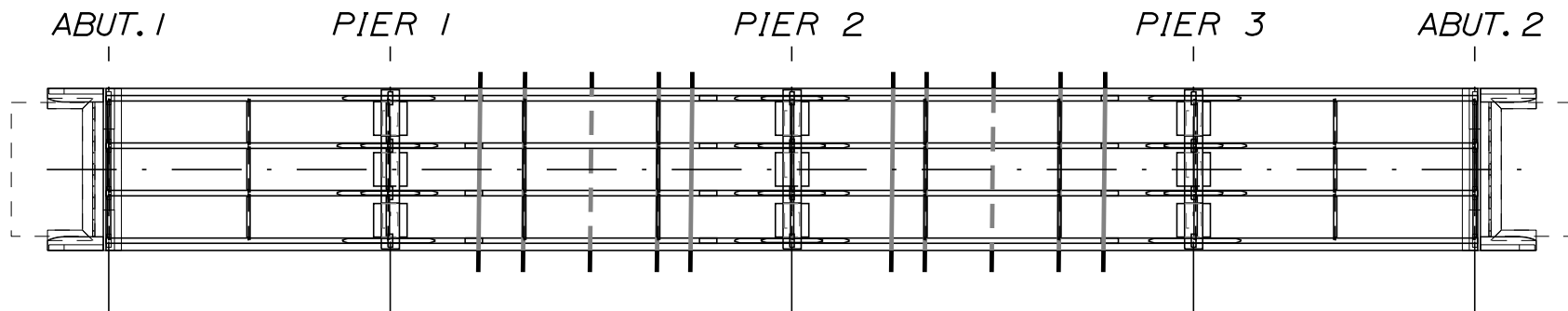
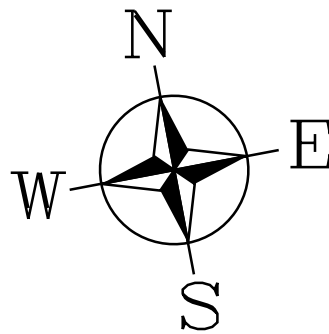
BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



BEARING NOTES:
BEARINGS 2 & 3 EXHIBIT SURFACE CORROSION THROUGHOUT

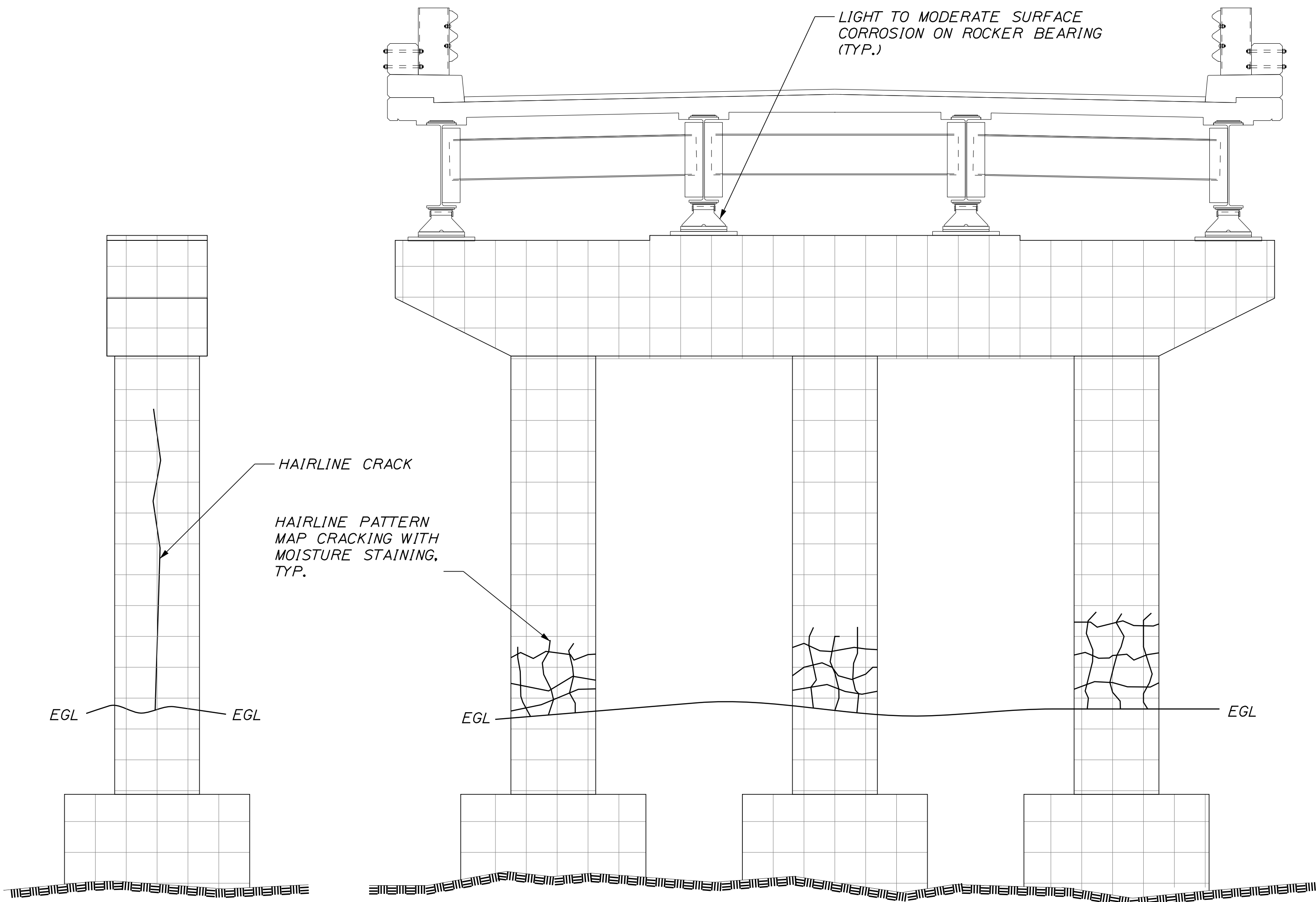
LEGEND:

- : SPALL
- : DELAMINATION
- : EFFLORESCENCE
- : SCALING
- : RUST STAINING
- : PATCH
- : EGL (EXISTING GROUND LEVEL)



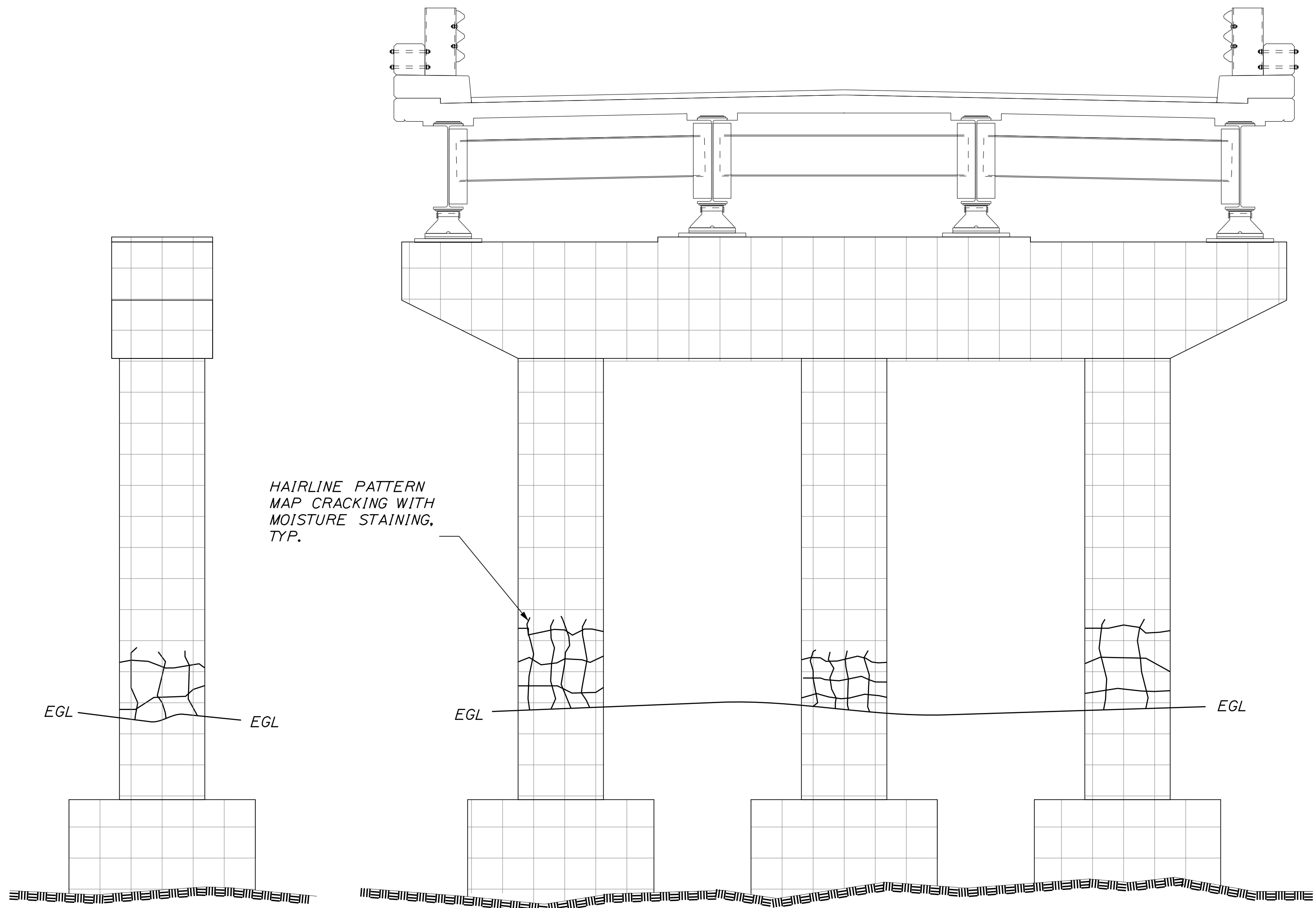
ABUTMENT NO. 2 PLAN

BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



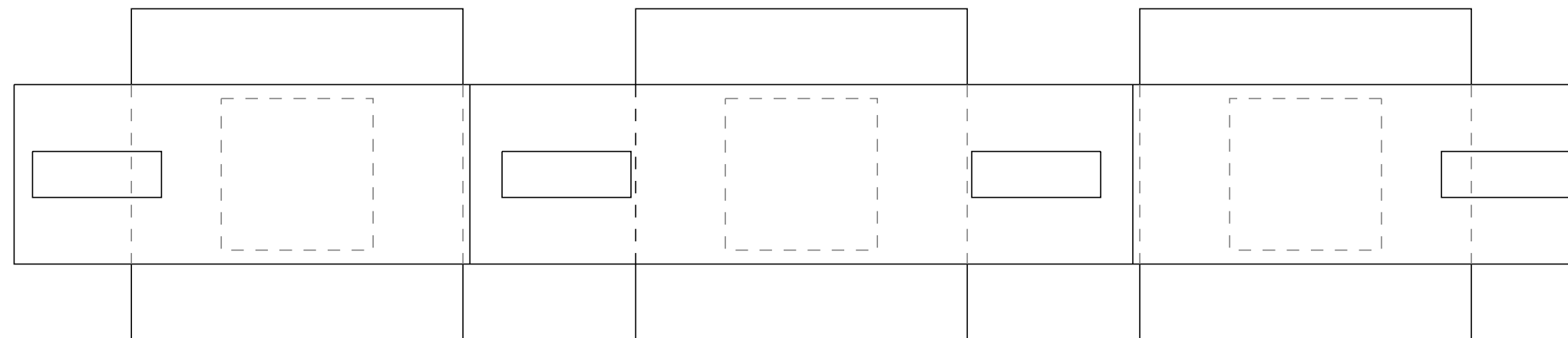
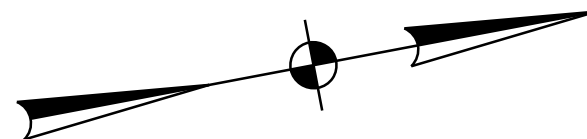
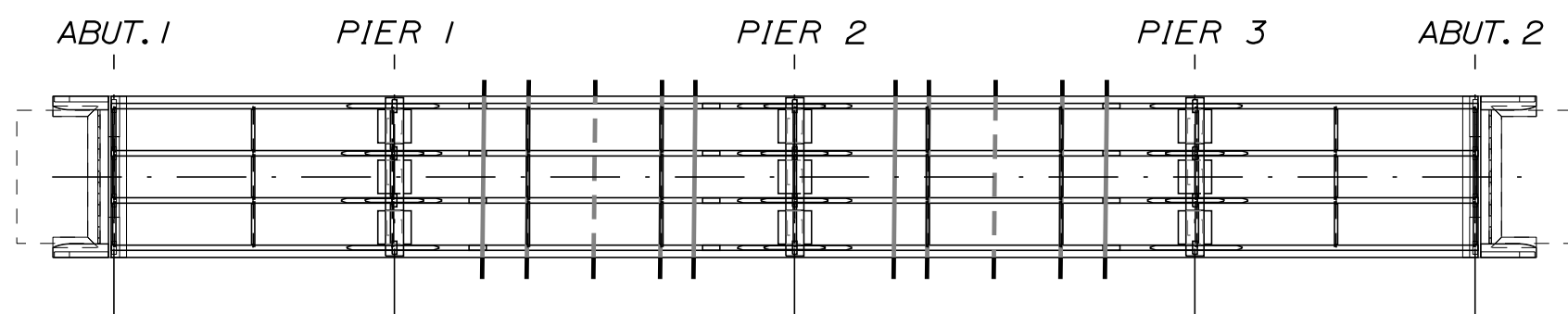
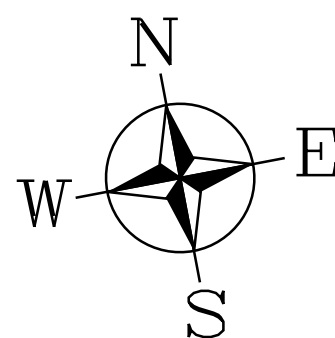
PIER NO. 1 SOUTH END
(South End - Looking North)

PIER NO. 1 EAST ELEVATION
(East Face - Looking West)



PIER NO. 1 NORTH END
(North End - Looking South)

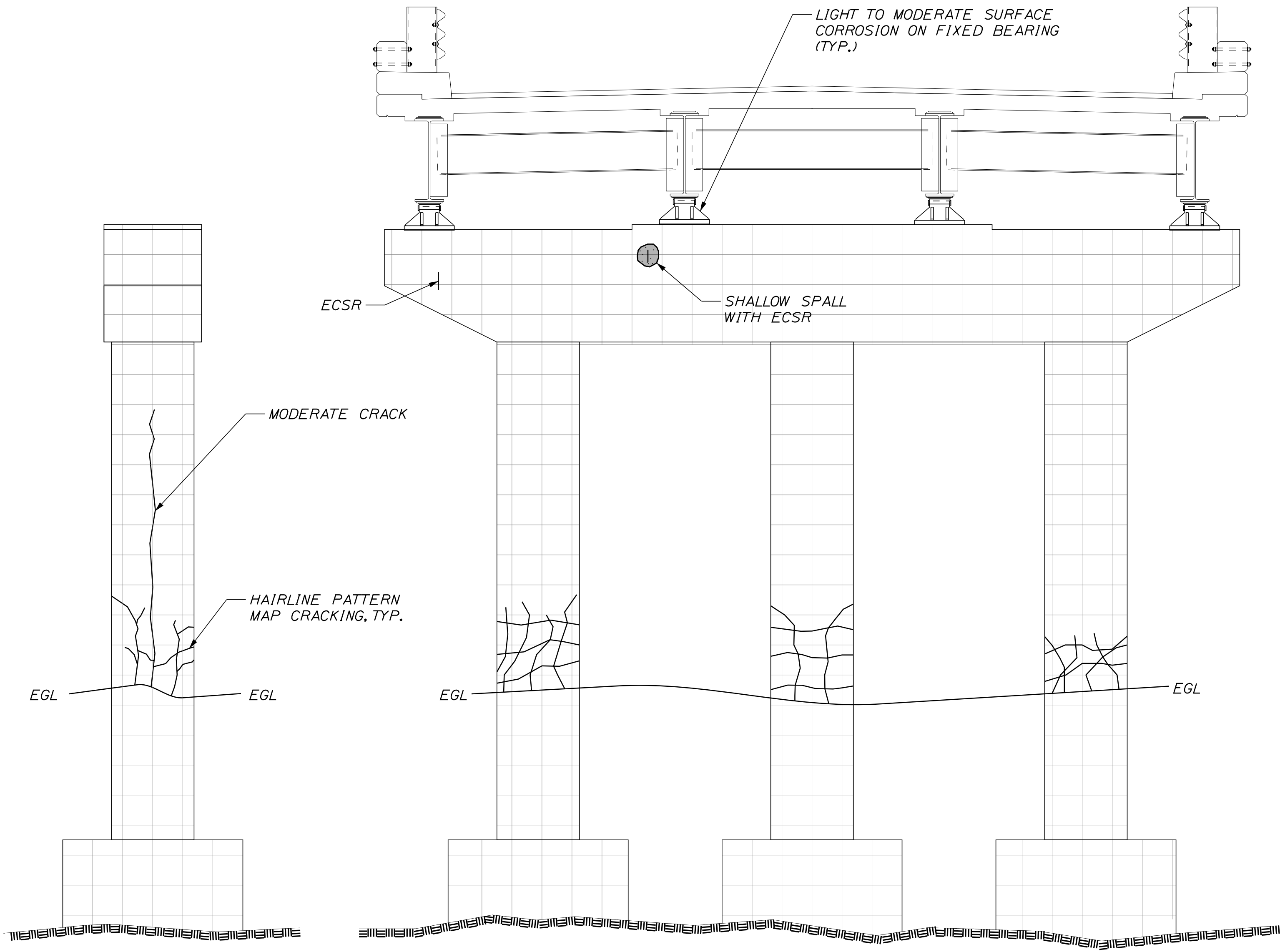
PIER NO. 1 WEST ELEVATION
(West Face - Looking East)



PIER NO. 1 PLAN

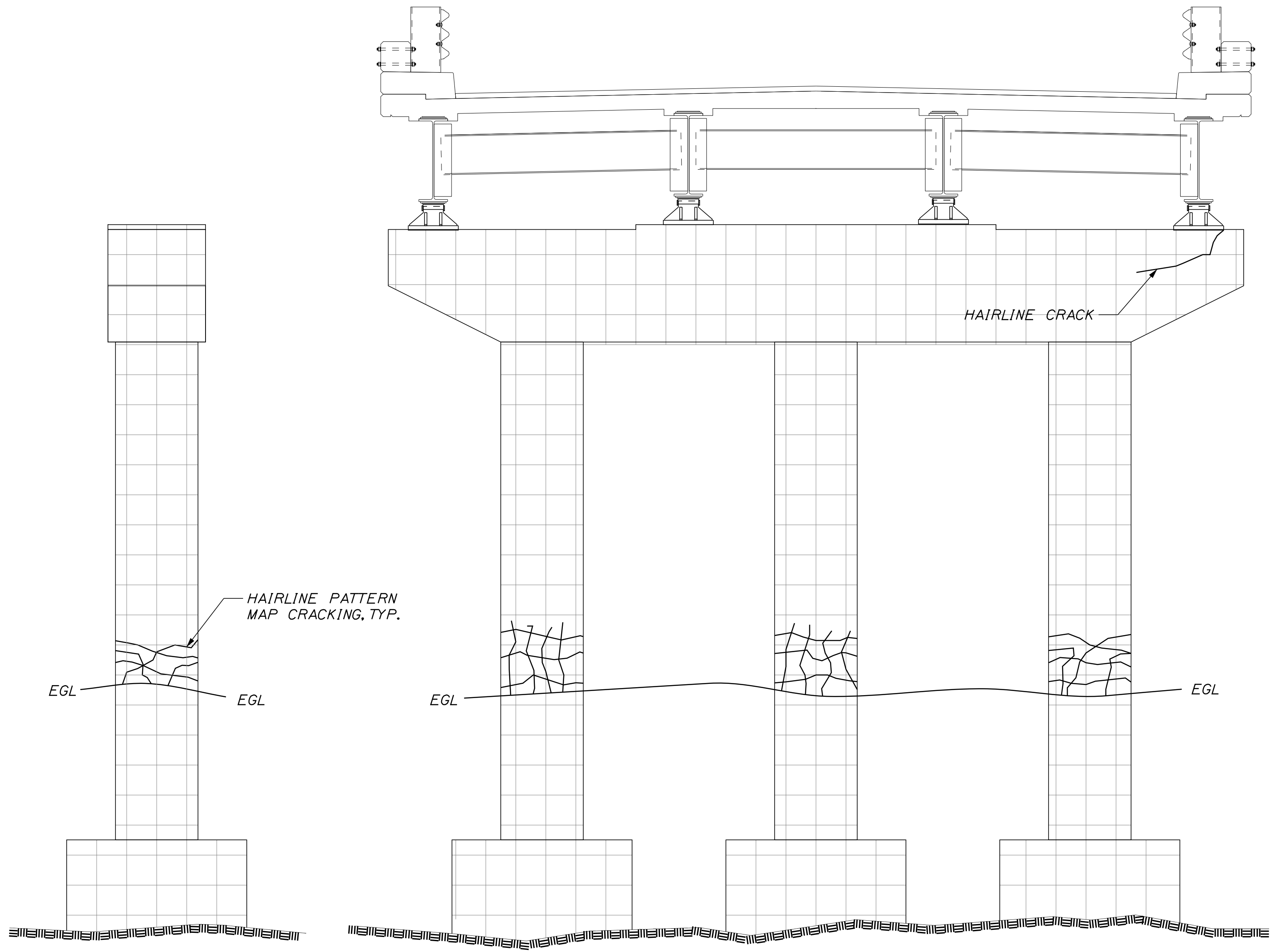
LEGEND:	
	: SPALL
	: DELAMINATION
	: EFFLORESCENCE
	: SCALING
	: RUST STAINING
	: PATCH
	: EGL (EXISTING GROUND LEVEL)

BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



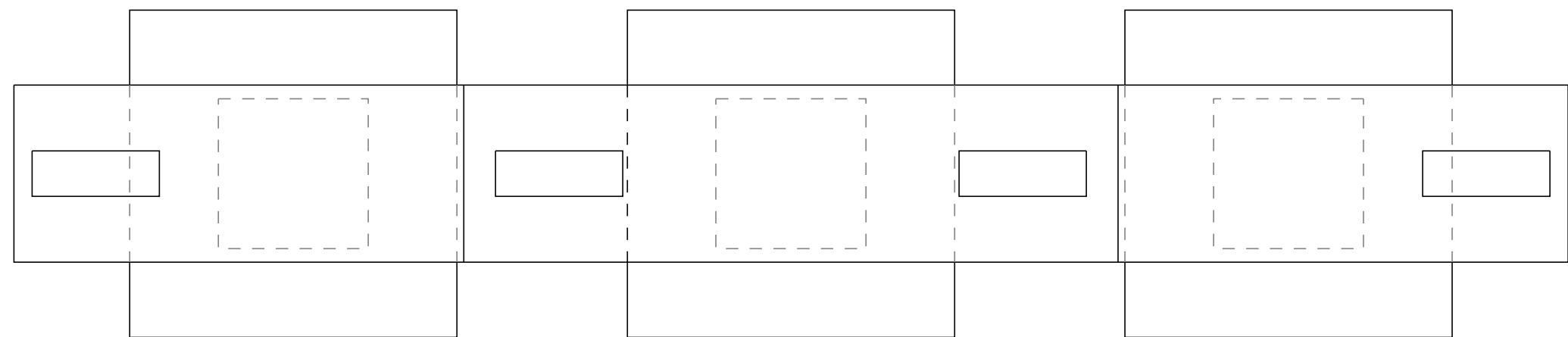
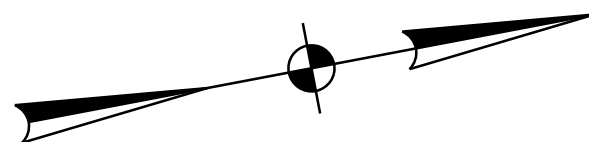
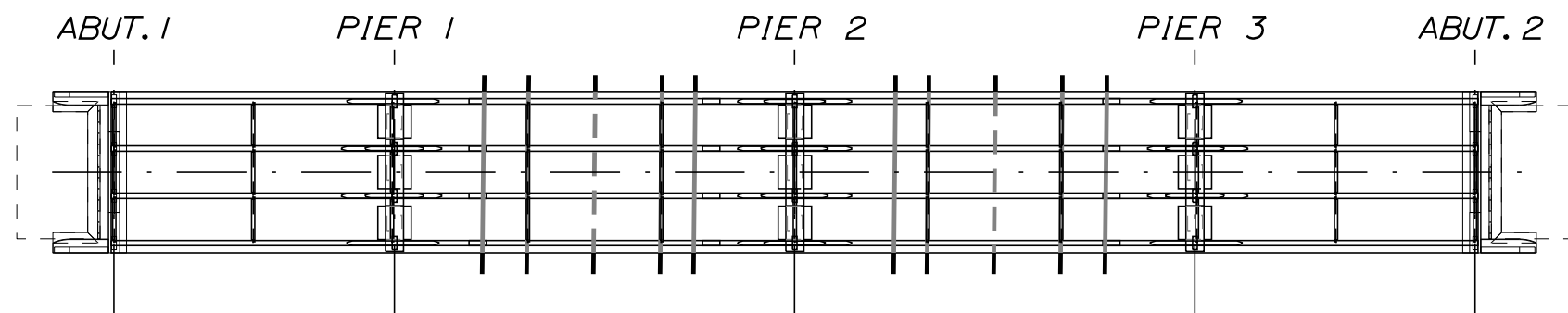
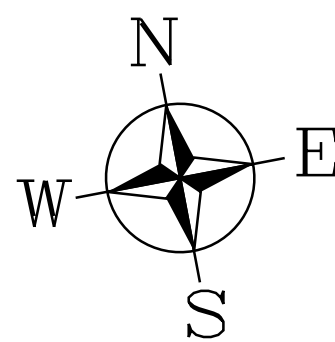
PIER NO. 2 SOUTH END
(South End - Looking North)

PIER NO. 2 EAST ELEVATION
(East Face - Looking West)



PIER NO. 2 NORTH END
(North End - Looking South)

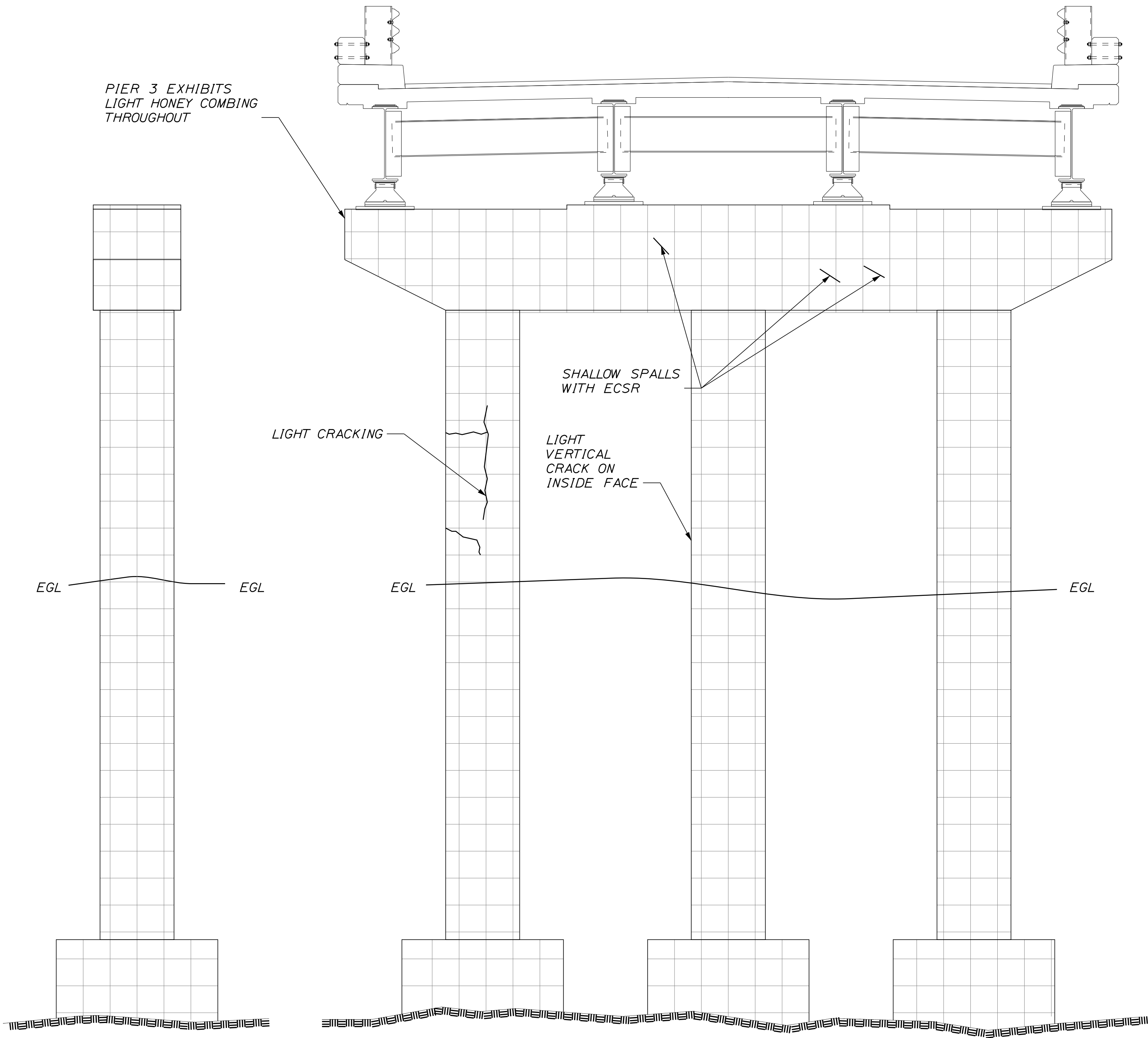
PIER NO. 2 WEST ELEVATION
(West Face - Looking East)



PIER NO. 2 PLAN

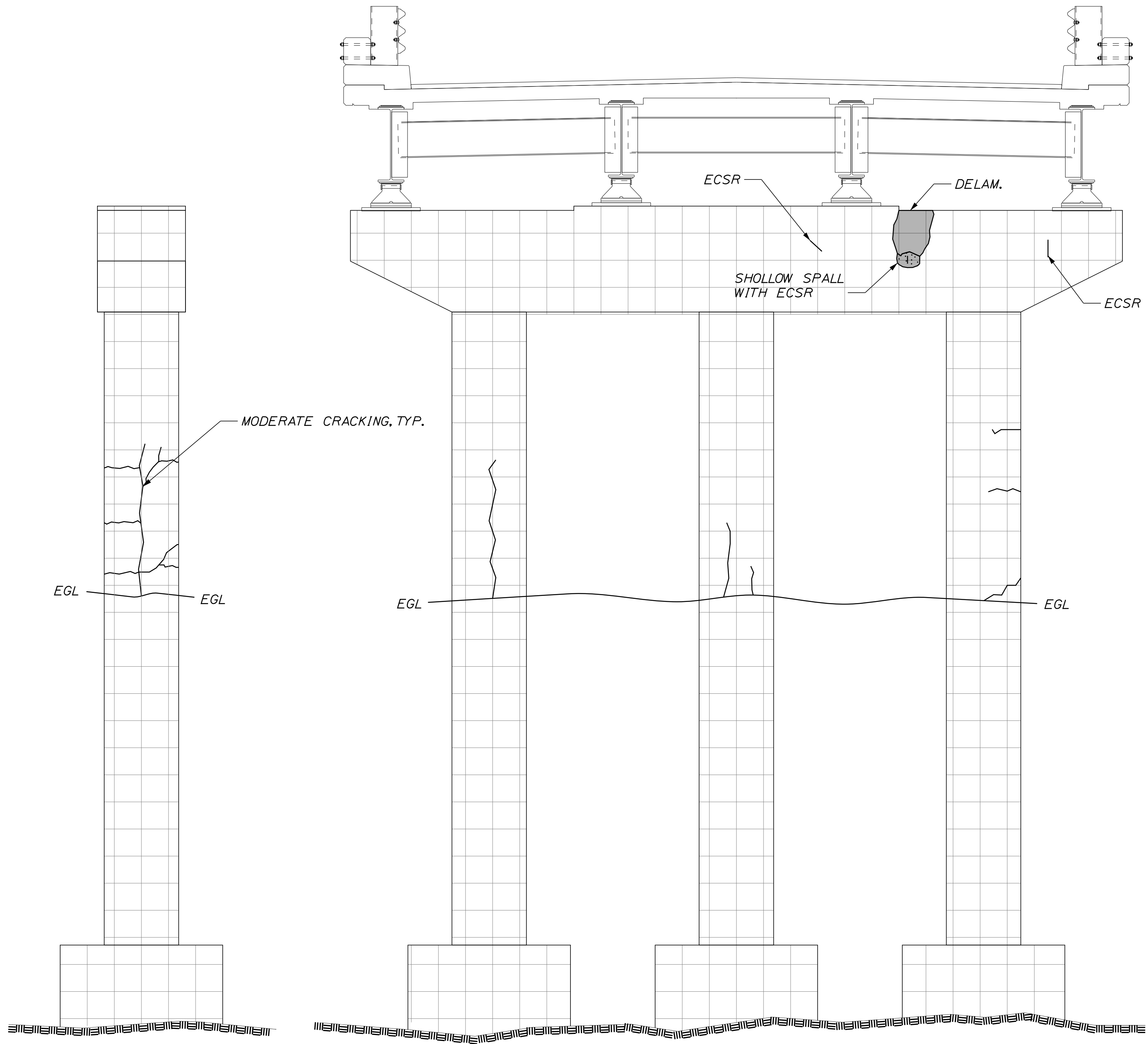
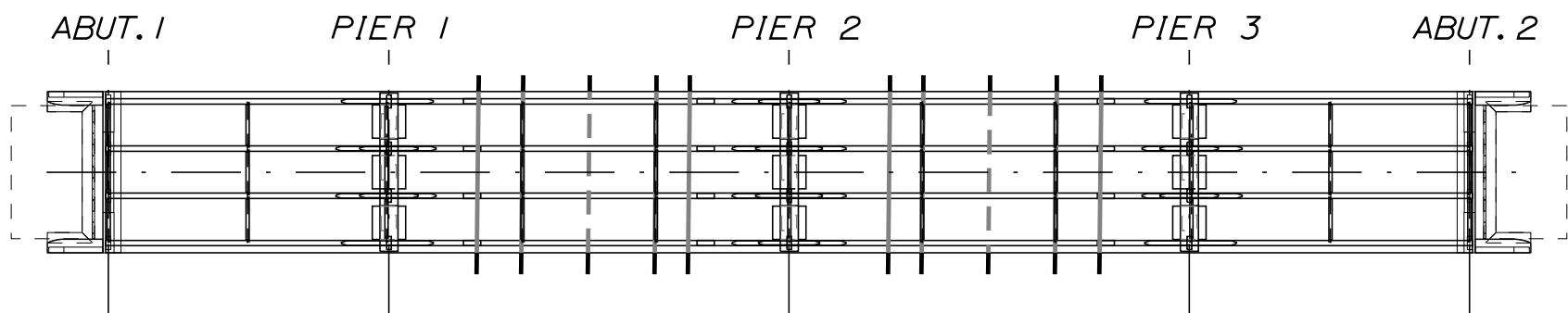
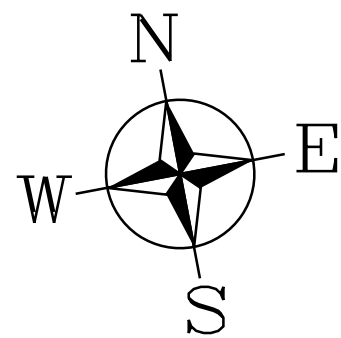
LEGEND:	
	: SPALL
	: DELAMINATION
	: EFFLORESCENCE
	: SCALING
	: RUST STAINING
	: PATCH
	: EGL (EXISTING GROUND LEVEL)

BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



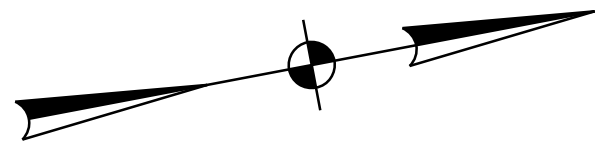
PIER NO. 3 NORTH END
(South End - Looking South)

PIER NO. 3 EAST ELEVATION
(East Face - Looking West)



PIER NO. 3 SOUTH END
(North End - Looking North)

PIER NO. 3 WEST ELEVATION
(West Face - Looking East)

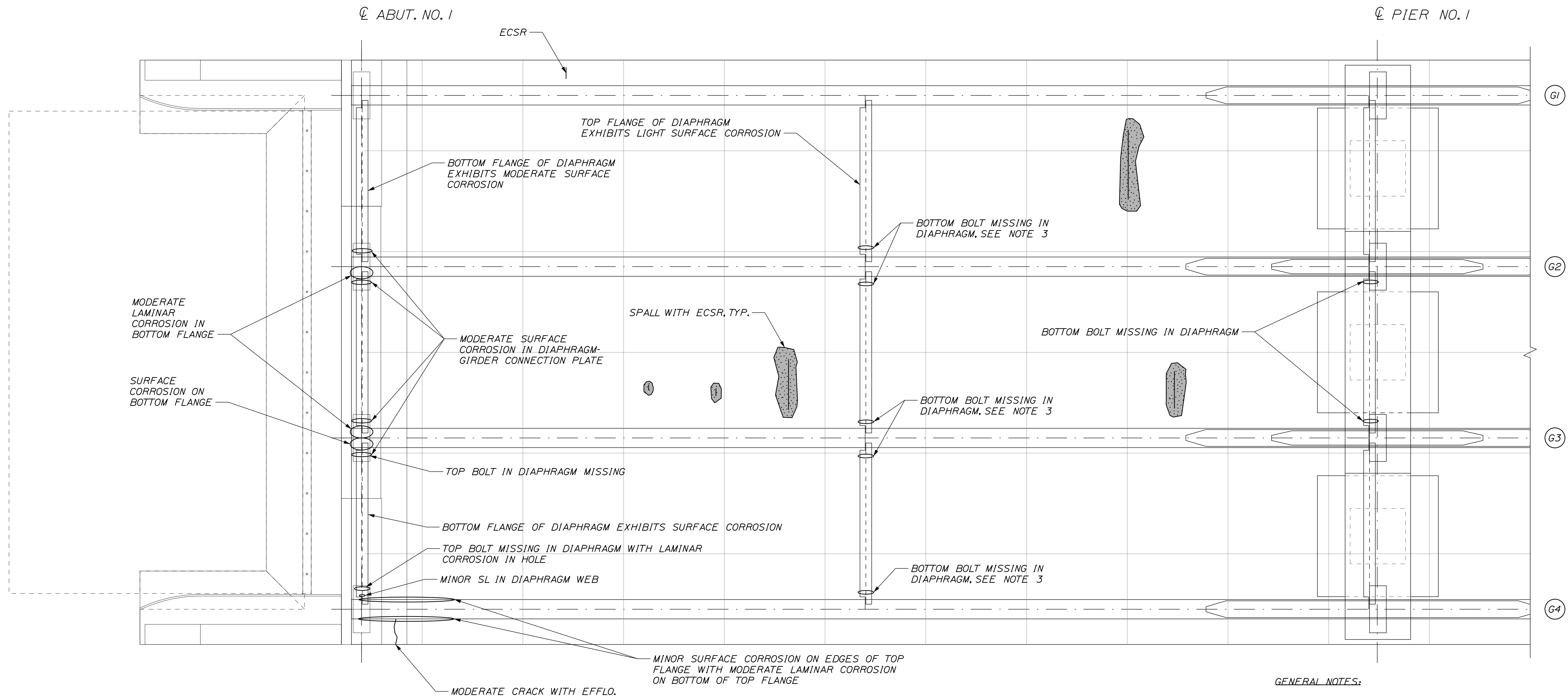


PIER NO. 3 PLAN

LEGEND:

	: SPALL
	: DELAMINATION
	: EFFLORESCENCE
	: SCALING
	: RUST STAINING
	: PATCH
	: EGL (EXISTING GROUND LEVEL)

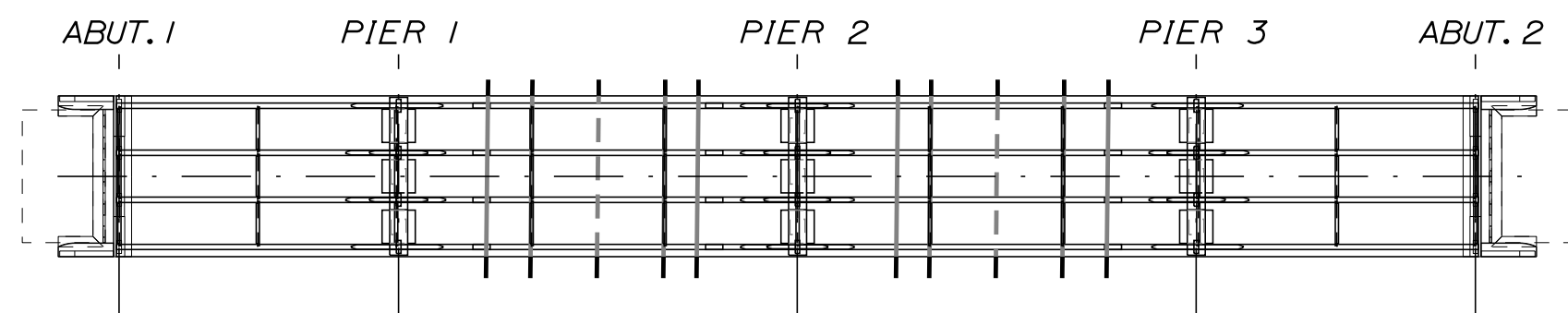
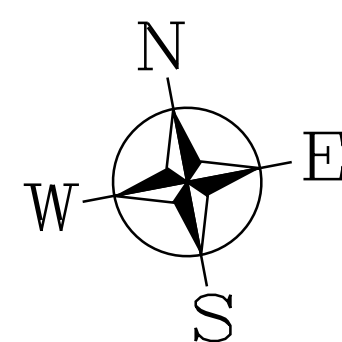
BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



SPAN 1 - UNDERDECK & FRAMING ASSESSMENT

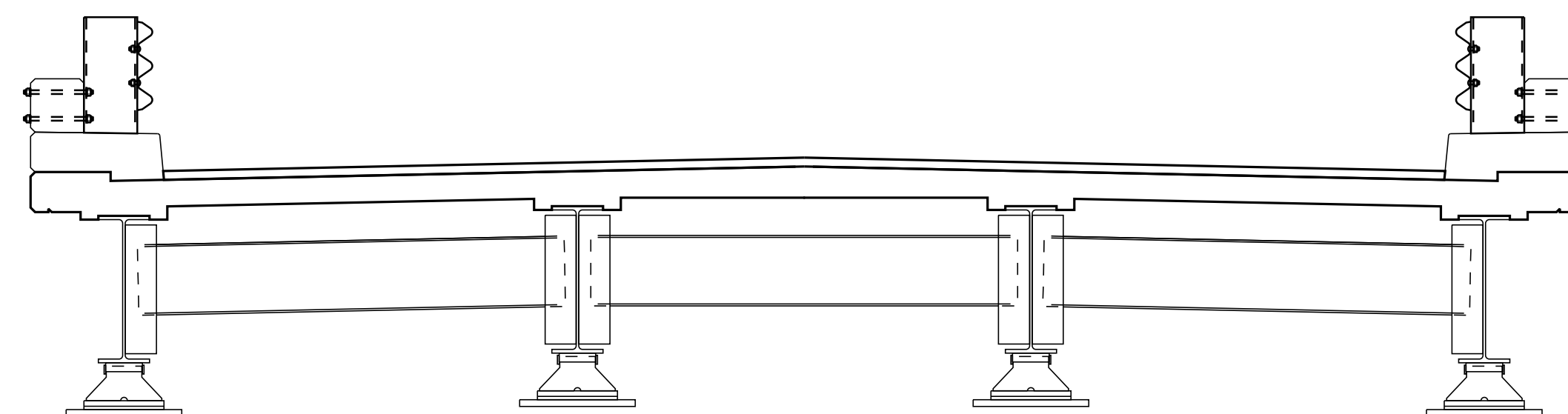
GENERAL NOTES:

1. BOTTOM 1" OF DRAIN PIPES HAVE MINOR SURFACE CORROSION
2. STEEL GIRDERS AND DIAPHRAGMS HAVE ~1% OF SL
3. DIAPHRAGMS ARE ALL FILLET WELDED TO THE GIRDERS, ORIGINALLY SECURED WITH 4 BOLTS BEFORE WELDING, SOME DIAPHRAGMS HAVE SOME OF THE BOLTS MISSING.



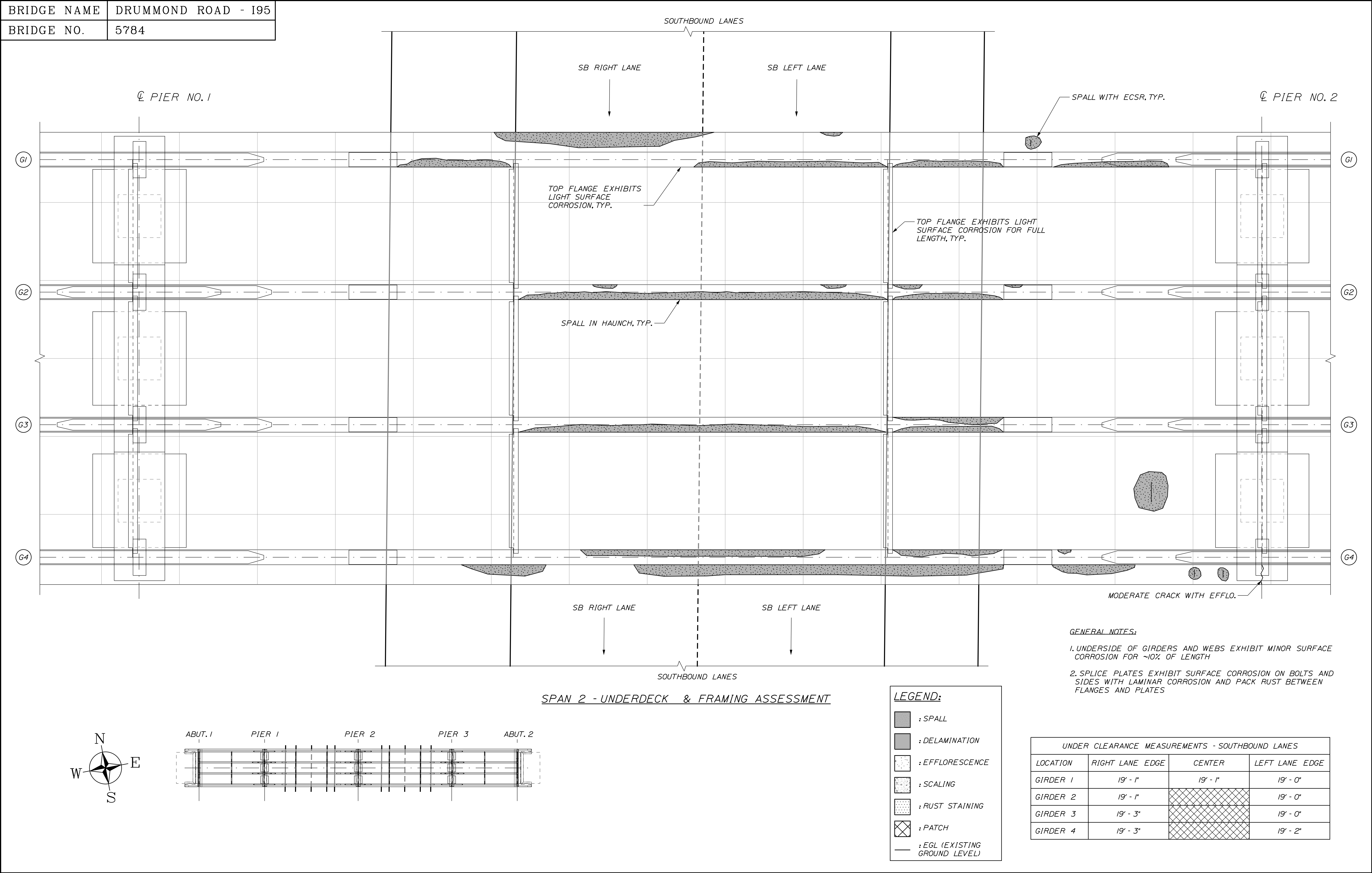
LEGEND:

- : SPALL
- : DELAMINATION
- : EFFLORESCENCE
- : SCALING
- : RUST STAINING
- : PATCH
- : EGL (EXISTING GROUND LEVEL)



TYPICAL SECTION

BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



GENERAL NOTES:

1. UNDERSIDE OF GIRDERS AND WEBS EXHIBIT MINOR SURFACE CORROSION FOR ~10% OF LENGTH

2. SPLICE PLATES EXHIBIT SURFACE CORROSION ON BOLTS AND SIDES WITH LAMINAR CORROSION AND PACK RUST BETWEEN FLANGES AND PLATES

LEGEND:

: SPALL

: DELAMINATION

: EFFLORESCENCE

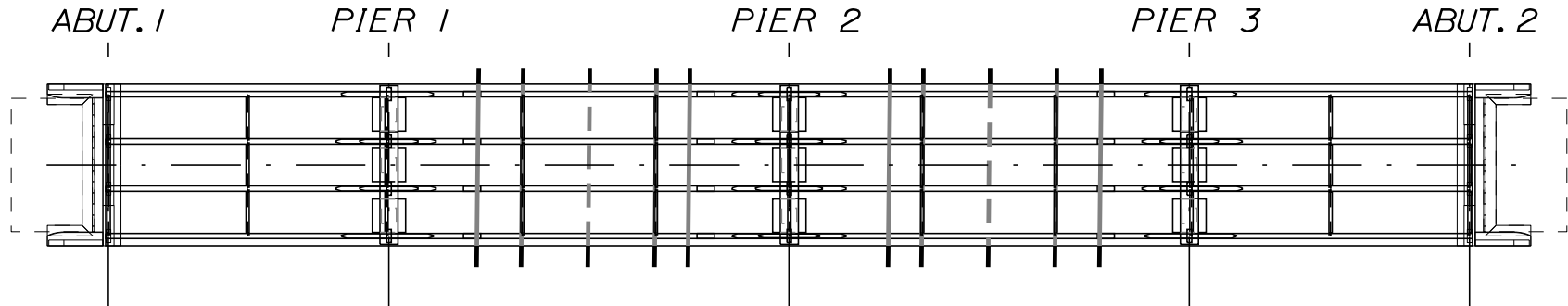
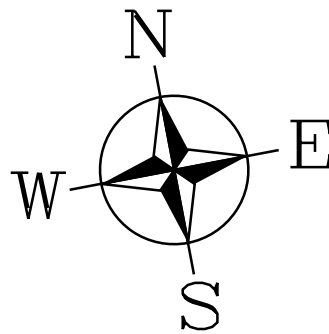
: SCALING

: RUST STAINING

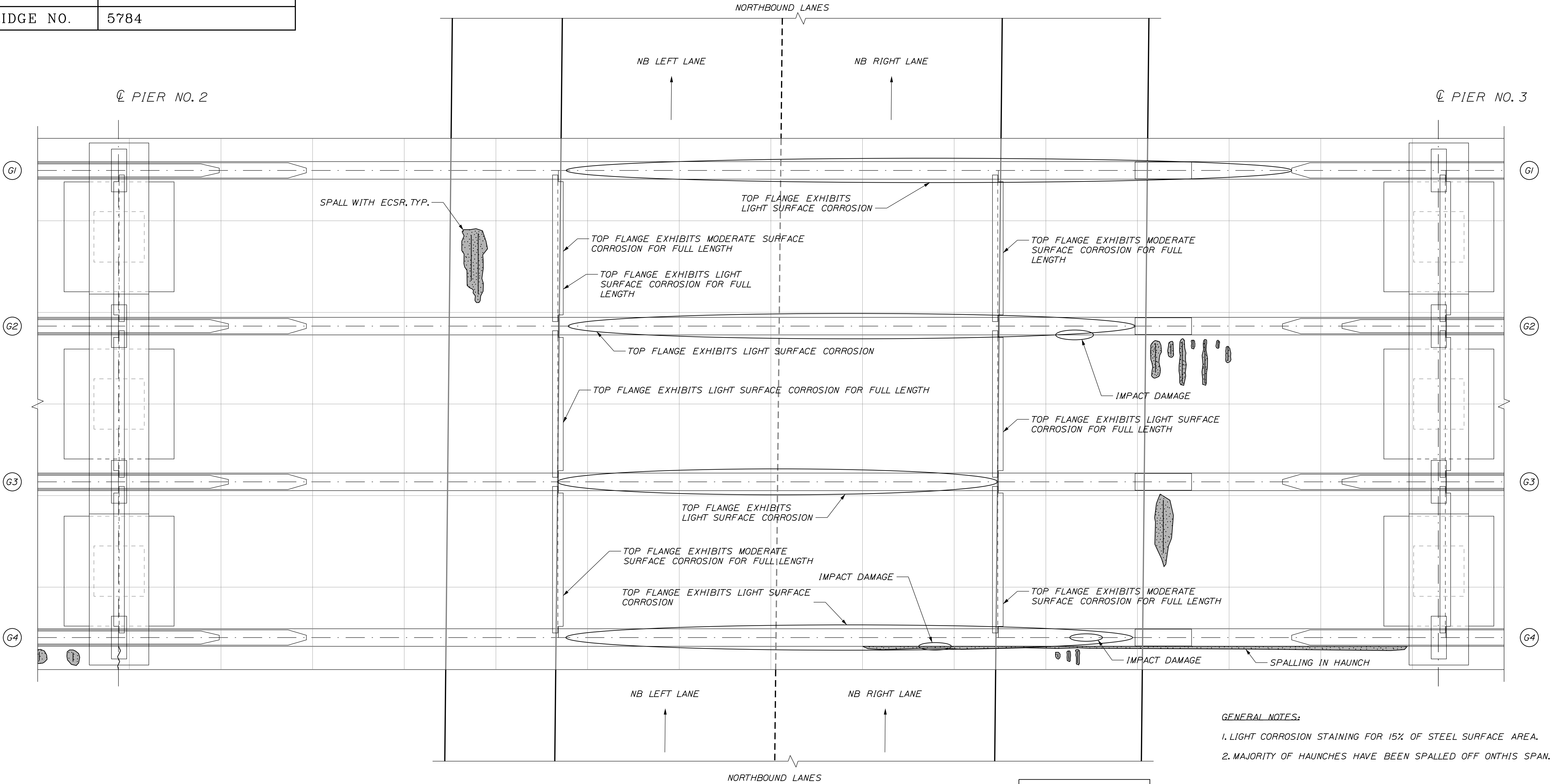
: PATCH

: EGL (EXISTING GROUND LEVEL)

UNDER CLEARANCE MEASUREMENTS - SOUTHBOUND LANES			
LOCATION	RIGHT LANE EDGE	CENTER	LEFT LANE EDGE
GIRDER 1	19' - 1"	19' - 1"	19' - 0"
GIRDER 2	19' - 1"		19' - 0"
GIRDER 3	19' - 3"		19' - 0"
GIRDER 4	19' - 3"		19' - 2"



BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



GENERAL NOTES:

1. LIGHT CORROSION STAINING FOR 15% OF STEEL SURFACE AREA.

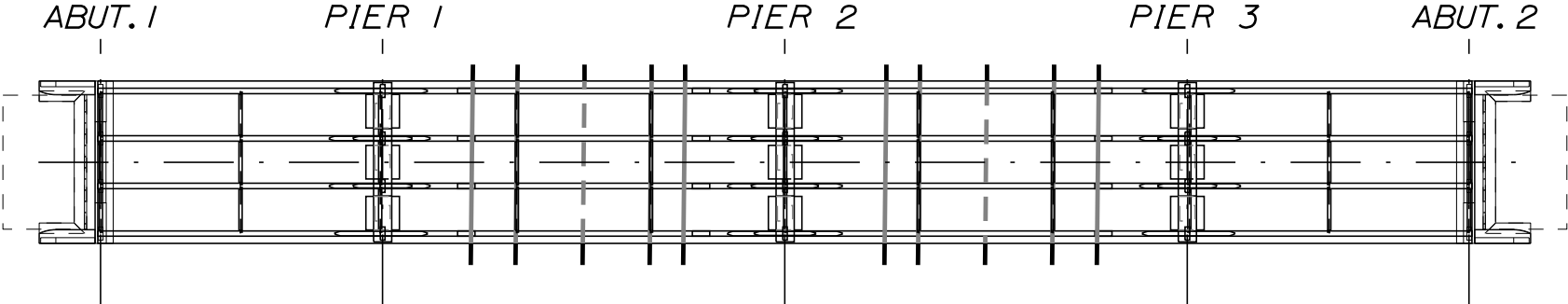
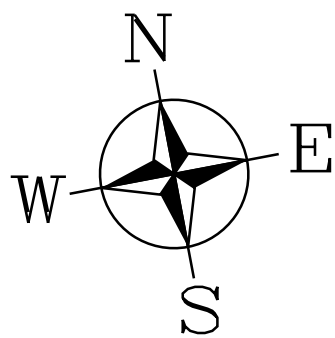
2. MAJORITY OF HAUNCHES HAVE BEEN SPALLED OFF ON THIS SPAN.

SPAN 3 - UNDERDECK & FRAMING ASSESSMENT

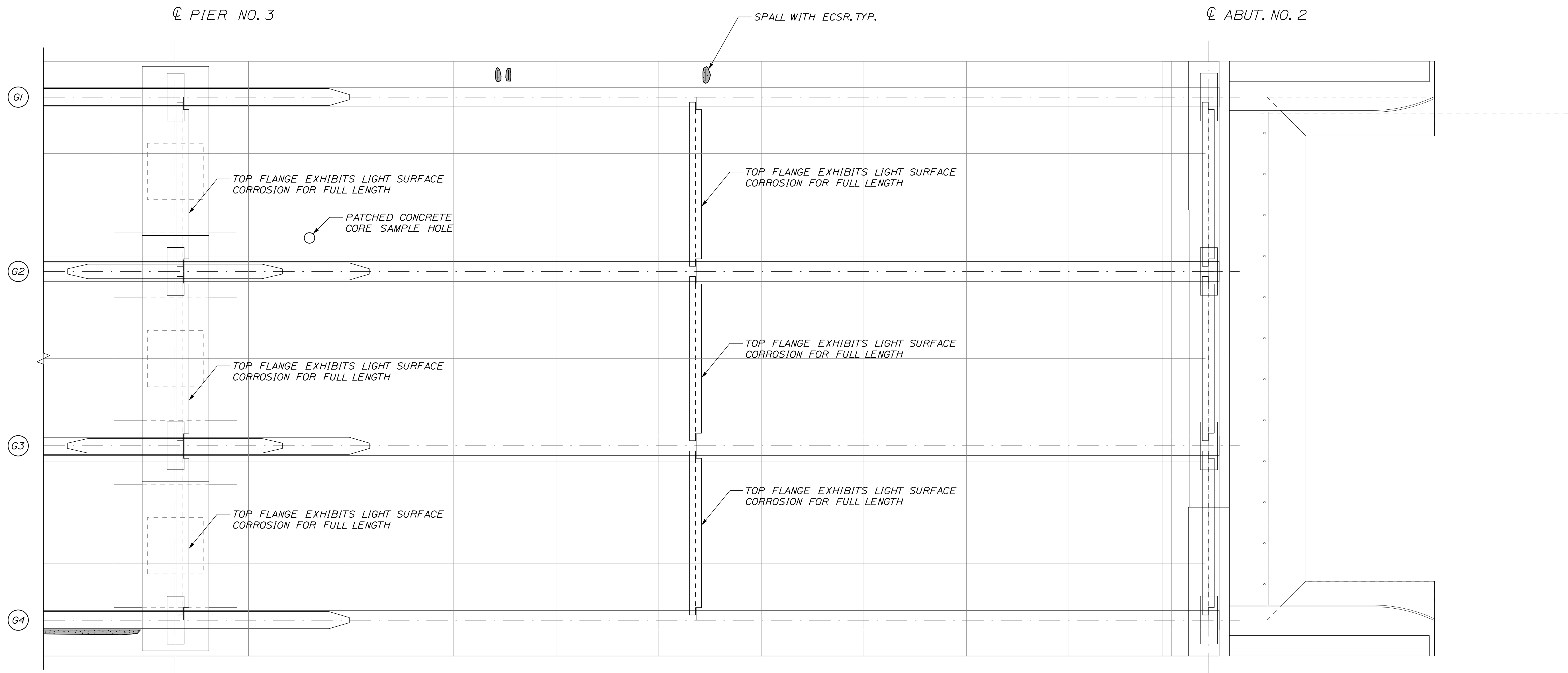
LEGEND:

- : SPALL
- : DELAMINATION
- : EFFLORESCENCE
- : SCALING
- : RUST STAINING
- : PATCH
- : EGL (EXISTING GROUND LEVEL)

UNDER CLEARANCE MEASUREMENTS - NORTHBOUND LANES			
LOCATION	LEFT LANE EDGE	CENTER	RIGHT LANE EDGE
GIRDER 1	19' - 2"		19' - 0"
GIRDER 2	19' - 2"		19' - 0"
GIRDER 3	19' - 2"		19' - 0"
GIRDER 4	18' - 11"	18' - 8"	18' - 10"

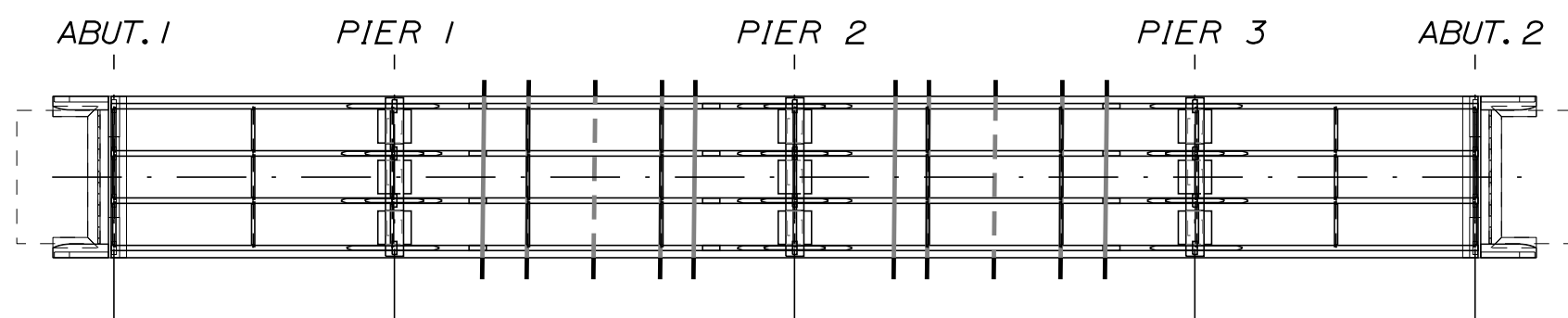
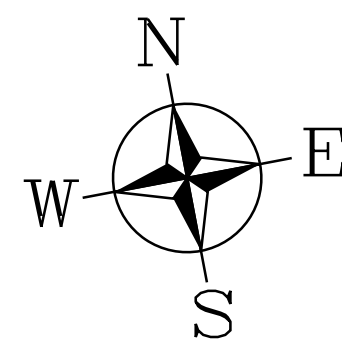


BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



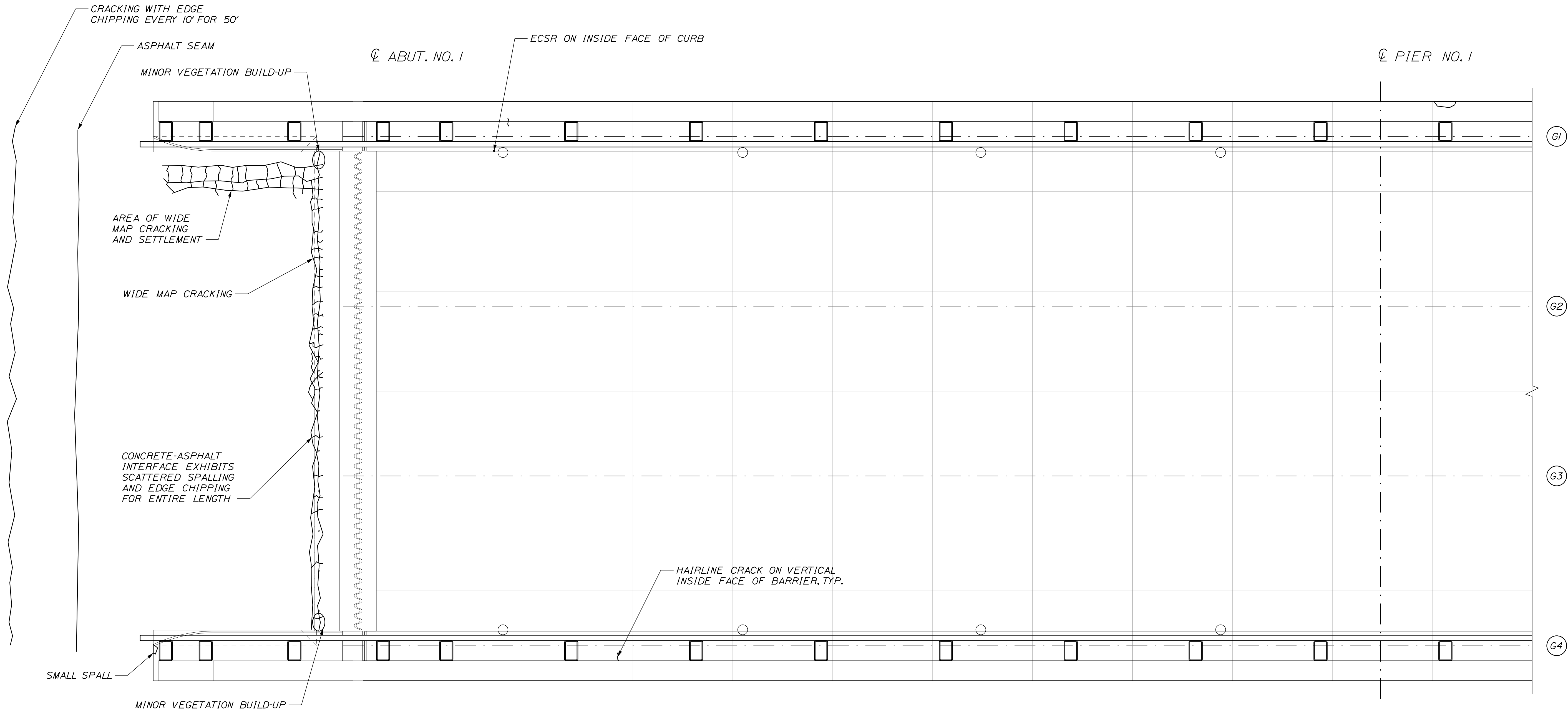
GENERAL NOTES:
1. LIGHT CORROSION STAINING FOR 5% OF STEEL SURFACE AREA.

SPAN 4 - UNDERDECK & FRAMING ASSESSMENT



LEGEND:	
	: SPALL
	: DELAMINATION
	: EFFLORESCENCE
	: SCALING
	: RUST STAINING
	: PATCH
	: EGL (EXISTING GROUND LEVEL)

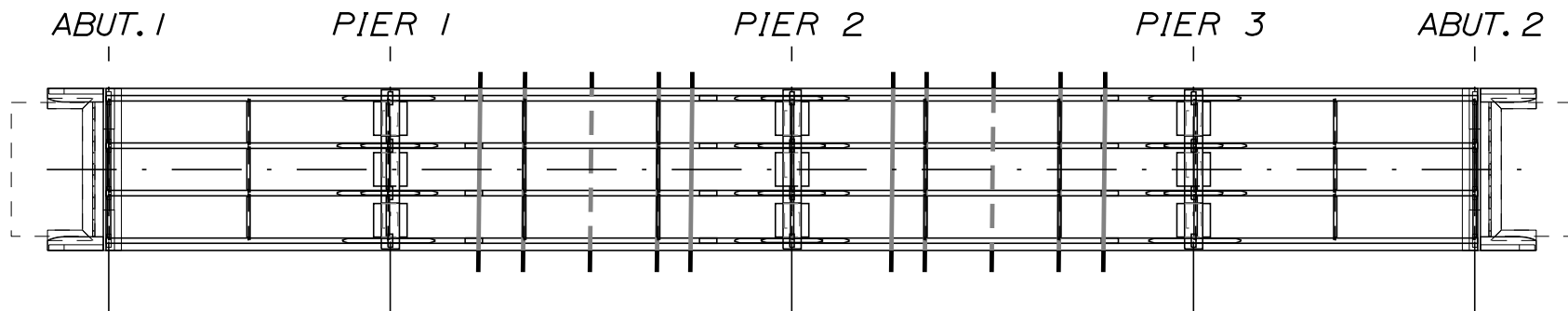
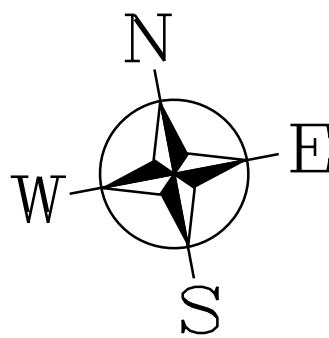
BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



SOUTHWEST GUARDRAIL NOTES:

1. GUARDRAIL DAMAGED/ BENT FOR 3' AT 3RD POST FROM END.

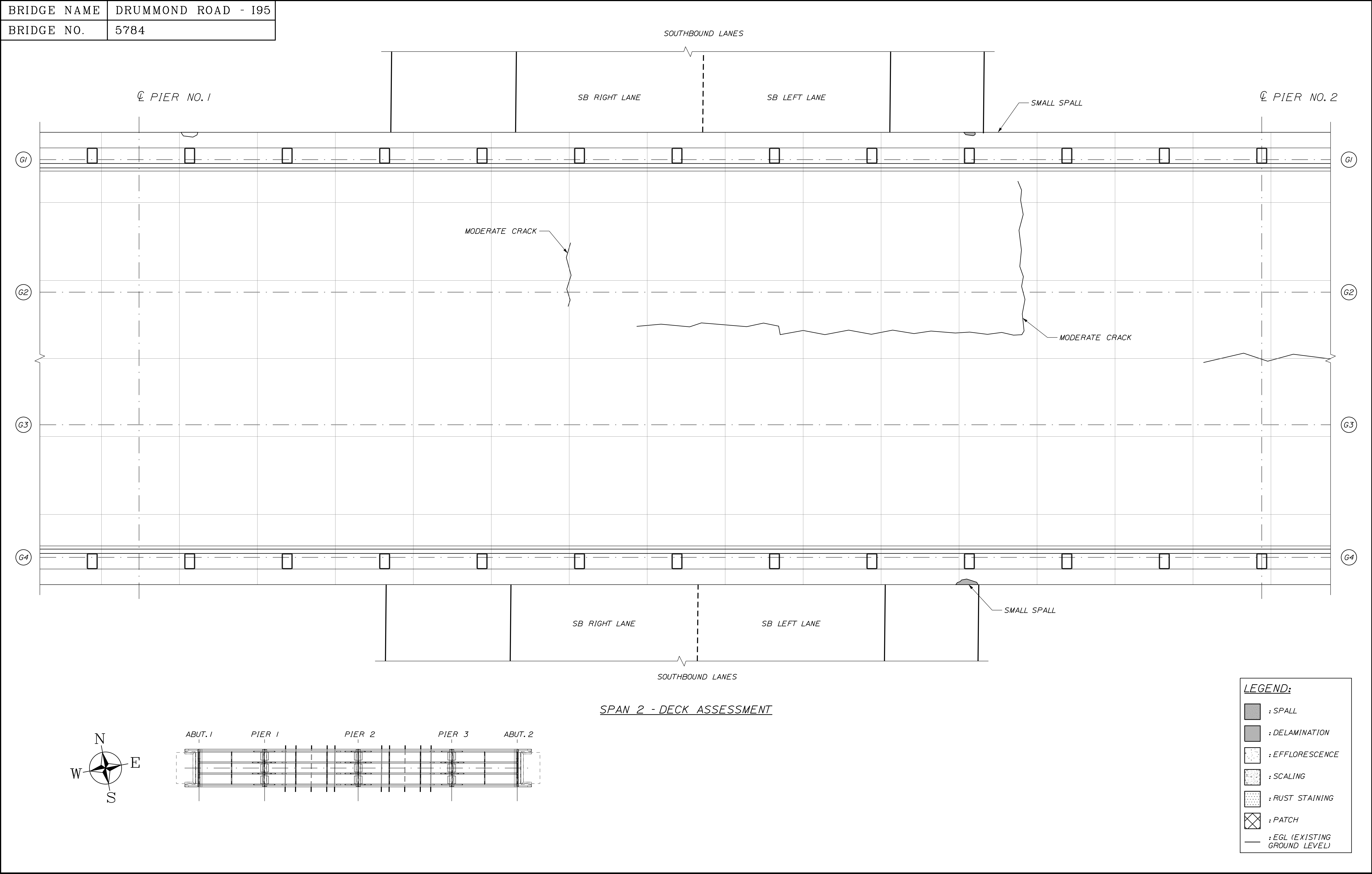
SPAN 1 - DECK ASSESSMENT



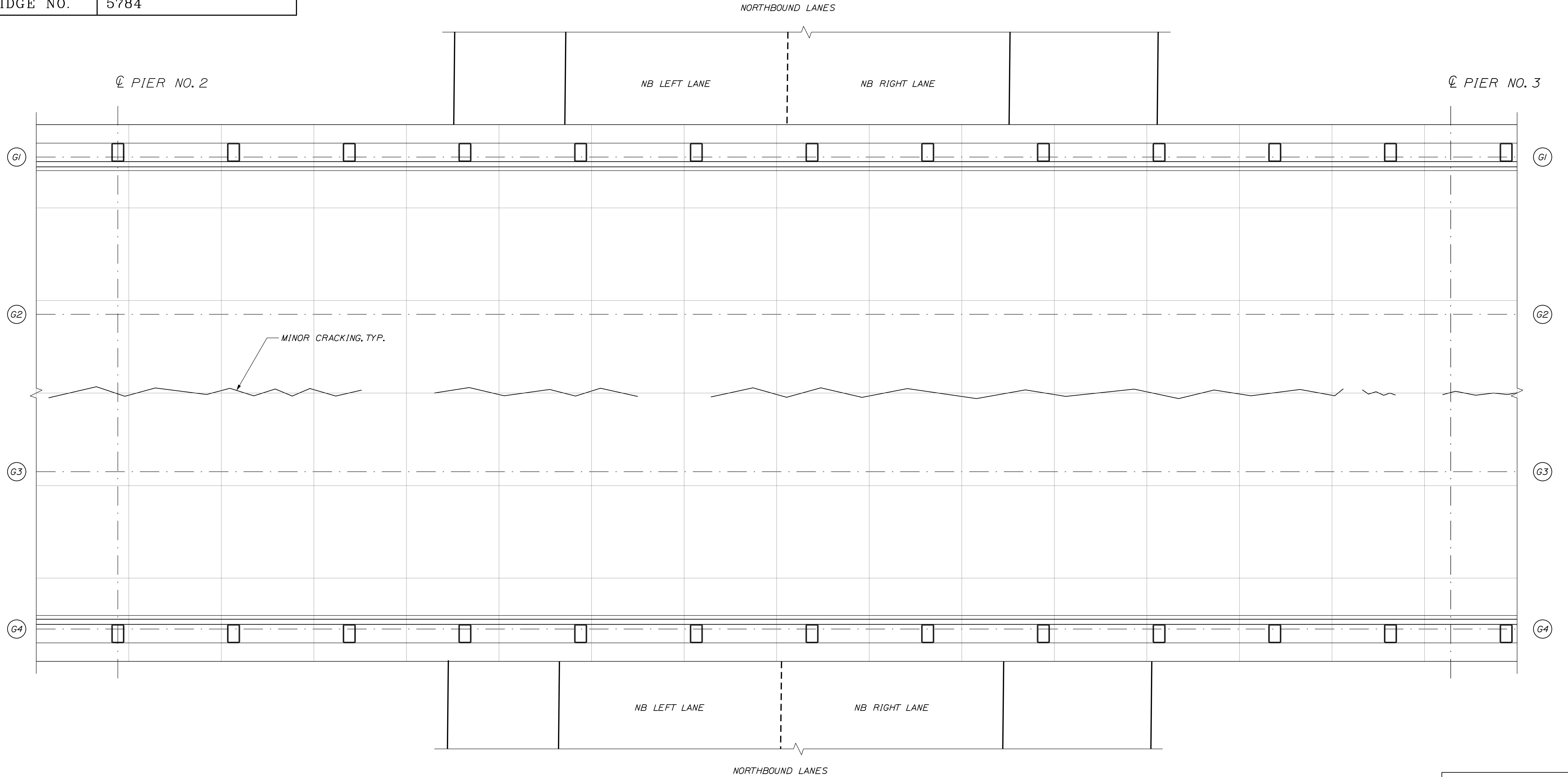
LEGEND:

- : SPALL
- : DELAMINATION
- : EFFLORESCENCE
- : SCALING
- : RUST STAINING
- : PATCH
- : EGL (EXISTING GROUND LEVEL)

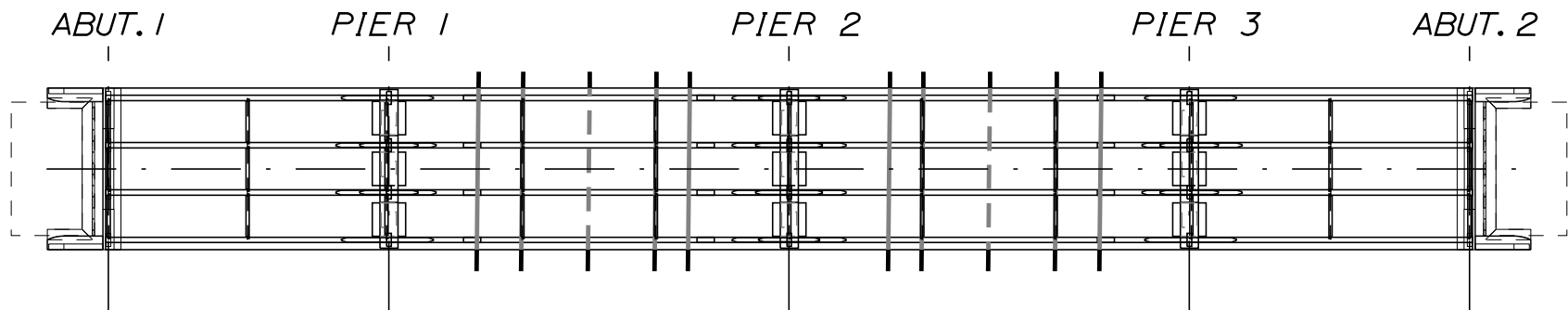
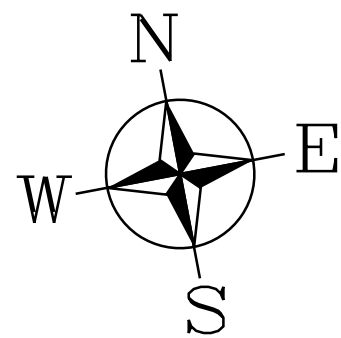
BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784










BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784



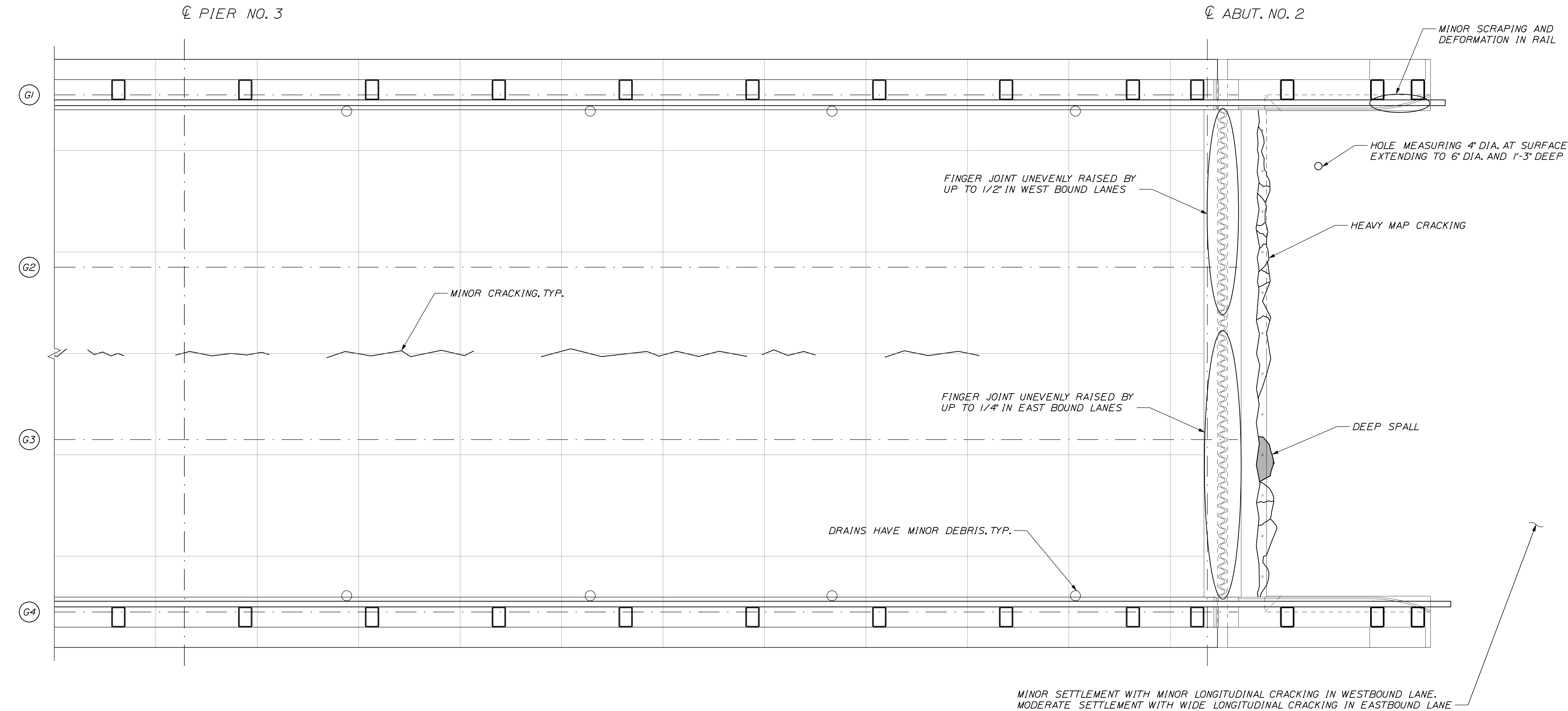
SPAN 3 - DECK ASSESSMENT



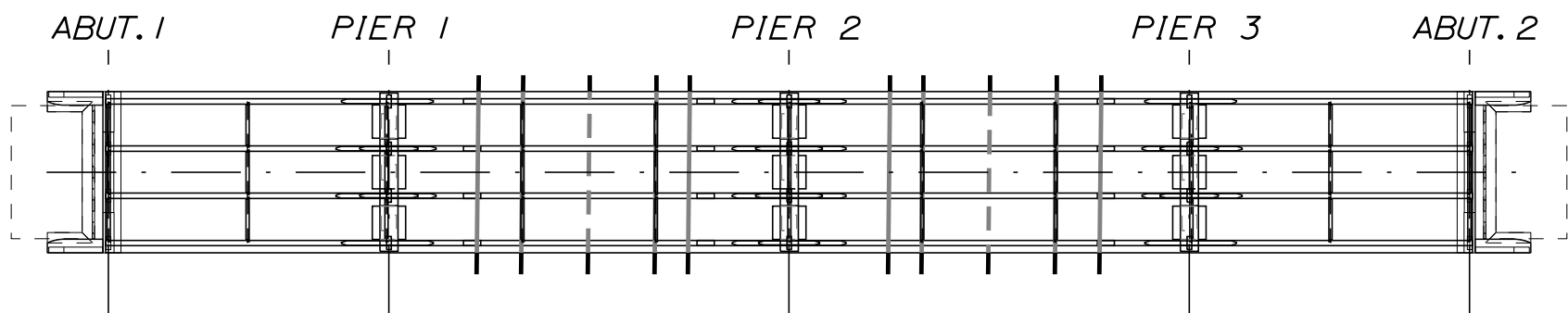
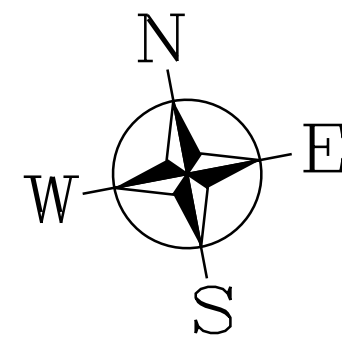
LEGEND:

-  : SPALL
-  : DELAMINATION
-  : EFFLORESCENCE
-  : SCALING
-  : RUST STAINING
-  : PATCH
-  : EGL (EXISTING GROUND LEVEL)


BRIDGE NAME	DRUMMOND ROAD - 195
BRIDGE NO.	5784





SPAN 4 - DECK ASSESSMENT





LEGEND:


 : SPALL


 : DELAMINATION

 : EFFLORESCENCE

 : SCALING

 : RUST STAINING

 : PATCH

 : EGL (EXISTING GROUND LEVEL)