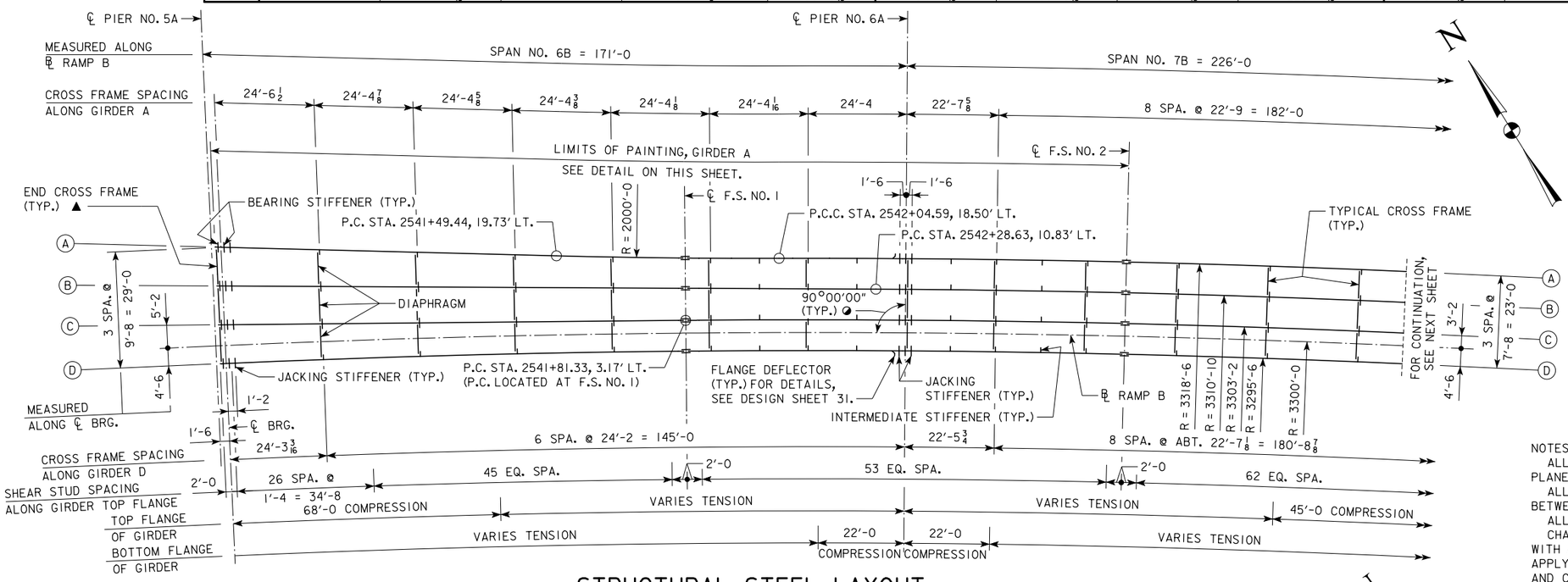
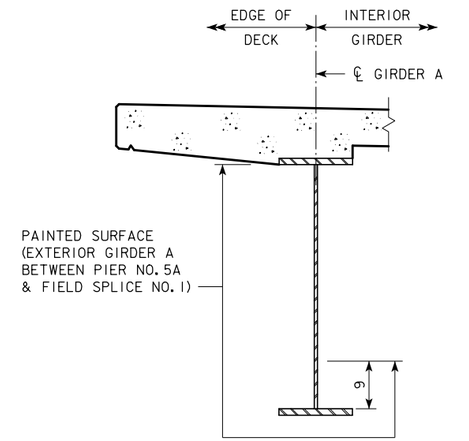
GIRDER DATA

GIRDER	SPAN NO. 6B: ℄ BRG. PIER NO. 5A TO P.C.	SPAN NO. 6B: ℄ BRG. PIER NO. 5A TO F.S. NO. 1	SPAN NO. 6B: F.S. NO. 1 TO P.C. OR P.C.C.	SPAN NO. 6B: F.S. NO. 1 AND P.C. TO ℄ PIER NO. 6A	SPAN NO. 6B: SPAN LENGTH	SPAN NO. 7B: ℄ PIER NO. 6A TO F.S. NO. 2	SPAN NO. 7B: F.S. NO. 2 TO F.S. NO. 3	SPAN NO. 7B: F.S. NO. 3 TO ℄ PIER NO. 7A	SPAN NO. 7B: SPAN LENGTH	SPAN NO. 8B: ℄ PIER NO. 7A TO F.S. NO. 4	SPAN NO. 8B: F.S. NO. 4 TO ℄ S. ABUT. BRG.	SPAN NO. 8B: SPAN LENGTH
A	83′-7 1/2	115′-8 9/16	23′-4 11/16	55′-0	170′-8 9/16	55′-0	117′-3 3/16	55′-0	227′-3 3/16	55′-0	115′-5 3/8	170′-5 3/8
B	-	115′-3 7/8	47′-5 7/16	54′-10 7/16	170′-2 5/16	54′-10 1/2	116′-11 7/8	54′-10 1/2	226′-8 7/8	54′-10 1/2	115′-2 3/16	170′-0 11/16
C	-	114′-11 5/8	-	54′-8 15/16	169′-8 9/16	54′-8 15/16	116′-8 3/4	54′-8 15/16	226′-2 5/8	54′-8 15/16	114′-11	169′-7 15/16
D	-	114′-7 15/16	-	54′-7 3/8	169′-3 3/16	54′-7 7/16	116′-5 7/16	54′-7 7/16	225′-8 5/16	54′-7 7/16	114′-7 13/16	169′-3 1/4

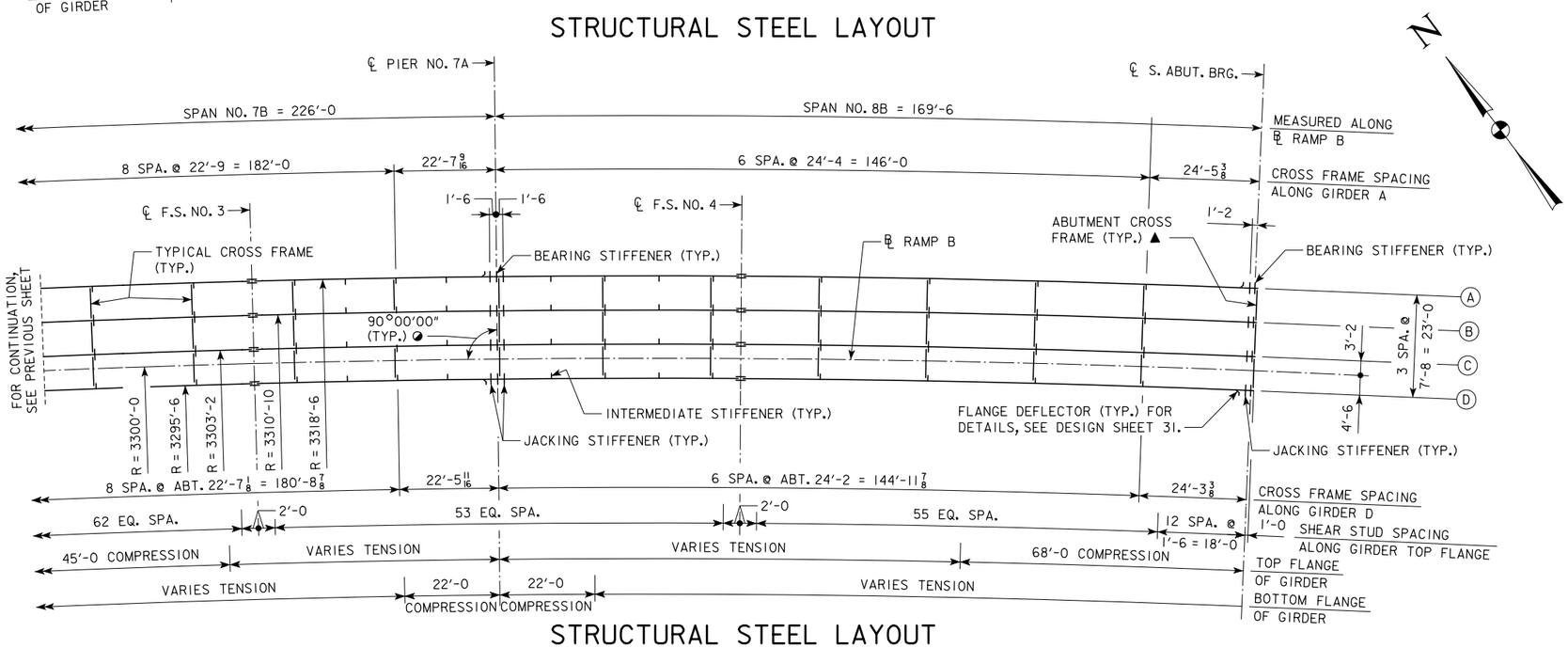


STRUCTURAL STEEL LAYOUT



LIMITS OF PAINTING DETAIL

(BARRIER RAIL NOT SHOWN)



STRUCTURAL STEEL LAYOUT

NOTES:

ALL DIMENSIONS SHOWN ARE MEASURED IN A HORIZONTAL PLANE UNLESS NOTED OTHERWISE.

ALL INTERMEDIATE STIFFENERS SHALL BE AT EQUAL SPACES BETWEEN CROSS FRAMES UNLESS NOTED OTHERWISE.

ALL CROSSFRAMES AND DIAPHRAGMS ARE RADIAL TO ℞ RAMP B.

CHARPY V-NOTCH TOUGHNESS REQUIREMENTS IN ACCORDANCE WITH ARTICLE 4152.02, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO ALL CROSS FRAMES, DIAPHRAGMS, CONNECTION STIFFENERS AND CONNECTION PLATES AT CROSS FRAMES.

OVERSIZED HOLES FOR BOLTED CONNECTIONS SHALL NOT BE ALLOWED UNLESS NOTED OTHERWISE.

THE CONTRACTOR'S ERECTION PLANS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF IOWA. ERECTION PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO OR WITH STRUCTURAL STEEL SHOP DRAWINGS.

FOR DRAIN SUPPORT CONNECTIONS FOR DECK DRAINS, SEE DESIGN SHEET 24.

THE FABRICATOR MAY REQUEST THE SUBSTITUTION OF A SINGLE PLATE OPTION FOR THE TOP AND BOTTOM FLANGE IN THE NEGATIVE REGION BETWEEN FIELD BOLTED SPLICE PLATES. THE REQUEST SHALL INCLUDE DESIGN CALCULATIONS SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF IOWA VERIFYING THE PLATE SIZE SUBSTITUTION AND BOLTED FIELD SPLICE ARE SATISFACTORY.

FOR LOCATION AND DETAILS OF INSPECTION ACCESS LAYOUT AND FOR LOCATION OF WIRE ROPE SUPPORT BRACKET CONNECTIONS TO GIRDER WEB AND STIFFENERS, SEE DESIGN SHEET 20.

◕ MEASURED WITH RESPECT TO LOCAL TANGENT.

▲ CONTRACTOR TO NOTE CROSS FRAME ERECTION AT THESE LOCATIONS MAY REQUIRE SPECIAL CONSIDERATION DURING GIRDER ERECTION. BEARING AND JACKING STIFFENERS MAY CONFLICT WITH CROSS FRAME PLACEMENT AFTER THE GIRDERS ARE ERECTED.

SEE DESIGN SHEET 14 FOR GIRDER AND COPES.

DESIGN FOR 0° SKEW ON 3,300′ RADIUS CURVE

566′-6 X VARIES CONTINUOUS WELDED GIRDER BRIDGE

171′-0, 226′-0, 169′-6 SPANS

FRAMING PLAN

STA. 2543+48.27 (℞ RAMP B) APRIL 2018

JOHNSON COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 13 OF 31 FILE NO. 30864 DESIGN NO. 420

HDR

DESIGN TEAM TLP/GMS/EES JOHNSON COUNTY PROJECT NUMBER IM-080-6(355)239--13-52 SHEET NUMBER 255