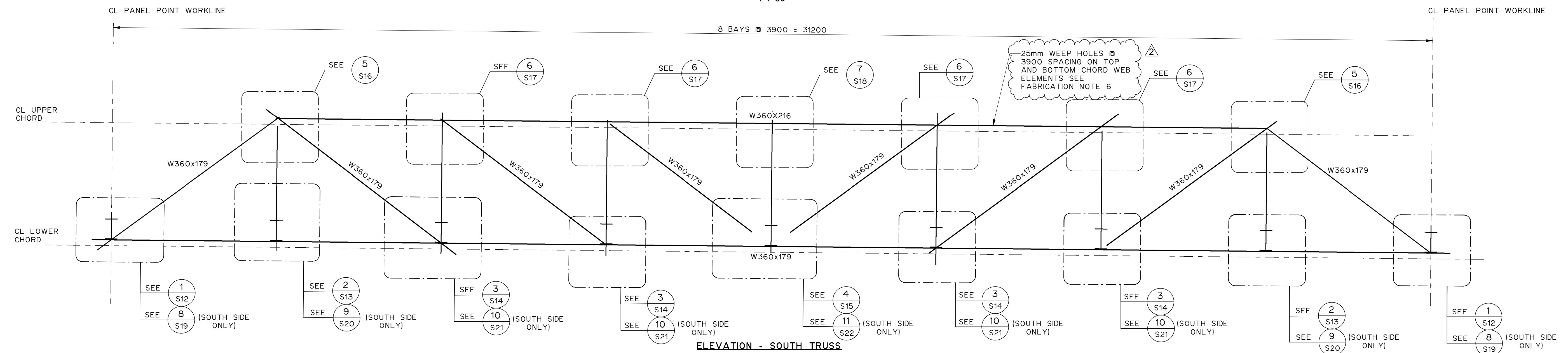


ELEVATION - NORTH TRUSS
1 : 50



ELEVATION - SOUTH TRUSS
1 : 50

MATERIALS

1. ALL STEEL SHALL CONFORM TO ASTM A709 GRADE 345 WY TYPE B CATEGORY 3
2. ALL SHEAR STUDS SHALL CONFORM TO THE CHEMICAL REQUIREMENTS OF ASTM STANDARD A108, GRADES 1015, 1018, OR 1020. IN ADDITION, THEY SHALL MEET THE REQUIREMENTS OF ASTM STANDARD A108, GRADES 1015, 1018, OR 1020. IN ADDITION THEY SHALL MEET THE REQUIREMENTS OF THE MECHANICAL PROPERTIES SPECIFIED IN AWS D1.5, TABLE 7.1 FOR TYPE B STUDS

ERECTION

1. CONTRACTOR SHALL DEVELOP AND SUBMIT A DETAILED ERECTION PROCEDURE FOR REVIEW AND ACCEPTANCE BY CONSULTANT. THE ERECTION PROCEDURE SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA
2. THE TRUSS HAS BEEN DESIGNED TO BE STABLE WHEN FULLY ASSEMBLED, WITHOUT THE CONCRETE DECK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE TRUSS AT ALL TIMES DURING ASSEMBLY AND ERECTION
3. THE TRUSS MAY BE SUPPORTED BETWEEN PANELS POINTS WHICH WOULD INTRODUCE FLEXURE AND/OR ECCENTRICITY INTO STEEL ELEMENTS WILL NOT BE PERMITTED
4. ANY DAMAGE TO COATINGS DURING ERECTION SHALL BE REPAINTED IN ACCORDANCE WITH SECTION 22 OF THE STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION AND SPECIAL PROVISIONS

FABRICATION

1. ALL WORK SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS AND ALBERTA TRANSPORTATION'S STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION
2. ALL DIMENSIONS ARE CORRECT AT 20°C AND MEMBER LENGTHS MEASURED ALONG THE BOTTOM CENTROID OF BOTTOM CHORD
3. WELDING SHALL CONFORM TO THE CURRENT AWS D1.5
4. ALL TRUSS BOTTOM CHORD, TOP CHORD, END POSTS, PORTALS, SWAY STRUTS, DIAGONALS, VERTICALS INCLUDING THEIR GUSSETS, CONNECTIONS AND STIFFENING PLATES ARE CONSIDERED FRACTURE CRITICAL
5. TRUSS CHORDS, VERTICALS AND DIAGONALS SHALL BE FABRICATED TO INCLUDE A LENGTH AND VERTICAL PROFILE ADJUSTMENT FOR THE DEAD LOAD DEFORMATIONS. GUSSET PLATE AND CONNECTION GEOMETRY SHALL BE ADJUSTED BASED ON CAMBER REFER TO SHEET 323
6. WEEP HOLES ON TOP AND BOTTOM CHORD ELEMENTS WEB TO HAVE SMOOTH EDGES.

CONNECTIONS

1. ALL WORK SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS AND ALBERTA TRANSPORTATION'S STANDARD SPECIFICATION FOR BRIDGE CONSTRUCTION
2. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 22 mm DIAMETER HIGH STRENGTH GALVANIZED BOLTS CONFORMING TO ASTM F3125 GRADE A325M TYPE 1, GALVANIZED IN ACCORDANCE WITH F239
3. ALL BOLTS HOLES ARE TO BE DRILLED 2mm LARGER THEN THE SPECIFIED BOLT DIAMETER
4. ALL STRINGER TO FLOOR BEAM CONNECTIONS AND LATERAL BRACING TO GUSSET CONNECTIONS, FINGER TIGHTEN BOLTS UPON ERECTION. AFTER APPLICATION OF ALL REMAINING PERMANENT DEAD LOADS, FULLY TORQUE BOLTS
5. FAYING SURFACES OF METALLIZED SURFACES SHALL BE PREPARED TO ENSURE A CLASS B SURFACE FINISH, MEAN SLIP COEFFICIENT OF 0.50, AS DESCRIBED IN THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS PRODUCED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS

COATINGS

1. ALL WORK SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION AND ALBERTA TRANSPORTATION STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION
2. ALL STEEL MEMBERS AND ASSOCIATED CONNECTIONS, GUSSETS AND STIFFENERS LOCATED ABOVE THE BOTTOM CHORD AND INCLUDING THE BOTTOM CHORD AND SIGN BRACKETS SHALL BE METALLIZED AND PAINT COATED FULL AROUND THEIR PERIMETERS AND ALONG THEIR LENGTH
3. THE FLOOR SYSTEM MEMBERS, CONNECTIONS, GUSSETS AND STIFFENERS INCLUDING LOWER LATERAL BRACING SHALL BE METALLIZED OR METALLIZED AND COATED AS SHOWN ON SHEET S24
4. METALLIZING SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS TO A THICKNESS OF A 180µm
5. PAINT COATING IN THE FABRICATION SHOP SHALL BE DONE WITH A COMPATIBLE SF2 APPROVED BRIDGE COATING SYSTEM FROM ALBERTA TRANSPORTATION PRODUCT LIST. BOLTED CONNECTION LOCATIONS SHALL BE MASKED TO MAINTAIN THE METALLIZED FAYING SURFACE
6. ALL UNPAINTED AREAS AND CONNECTIONS FROM THE SHOP SHALL HAVE THE SAME SF2 COATING SYSTEM SUPPLIED IN THE FIELD AFTER ERECTION AND AFTER APPLICATION OF ALL DEAD LOAD

THIS DRAWING MAY HAVE BEEN REDUCED.
ALL SCALE NOTATIONS INDICATED (i.e. 1:1000 etc)
ARE BASED ON ANSI D (22" X 34") FORMAT DRAWINGS



CONSULTANT

PERMIT TO PRACTICE
MPE ENGINEERING LTD.

Signature *[Signature]*

APEGA ID 155319

Date JULY 28, 2022

PERMIT NUMBER: P 3680
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)



REV	DATE	REVISIONS	BY
2	2022-07-28	FOR ADDENDUM #1	
1	2022-07-12	FOR TENDER	

DATE	PROJECT NUMBER	LOCATION	HIGHWAY	SHEET	DRAWING
2022-07-28	2450-047-00	NE 7-29-19 W4M	10X		S11

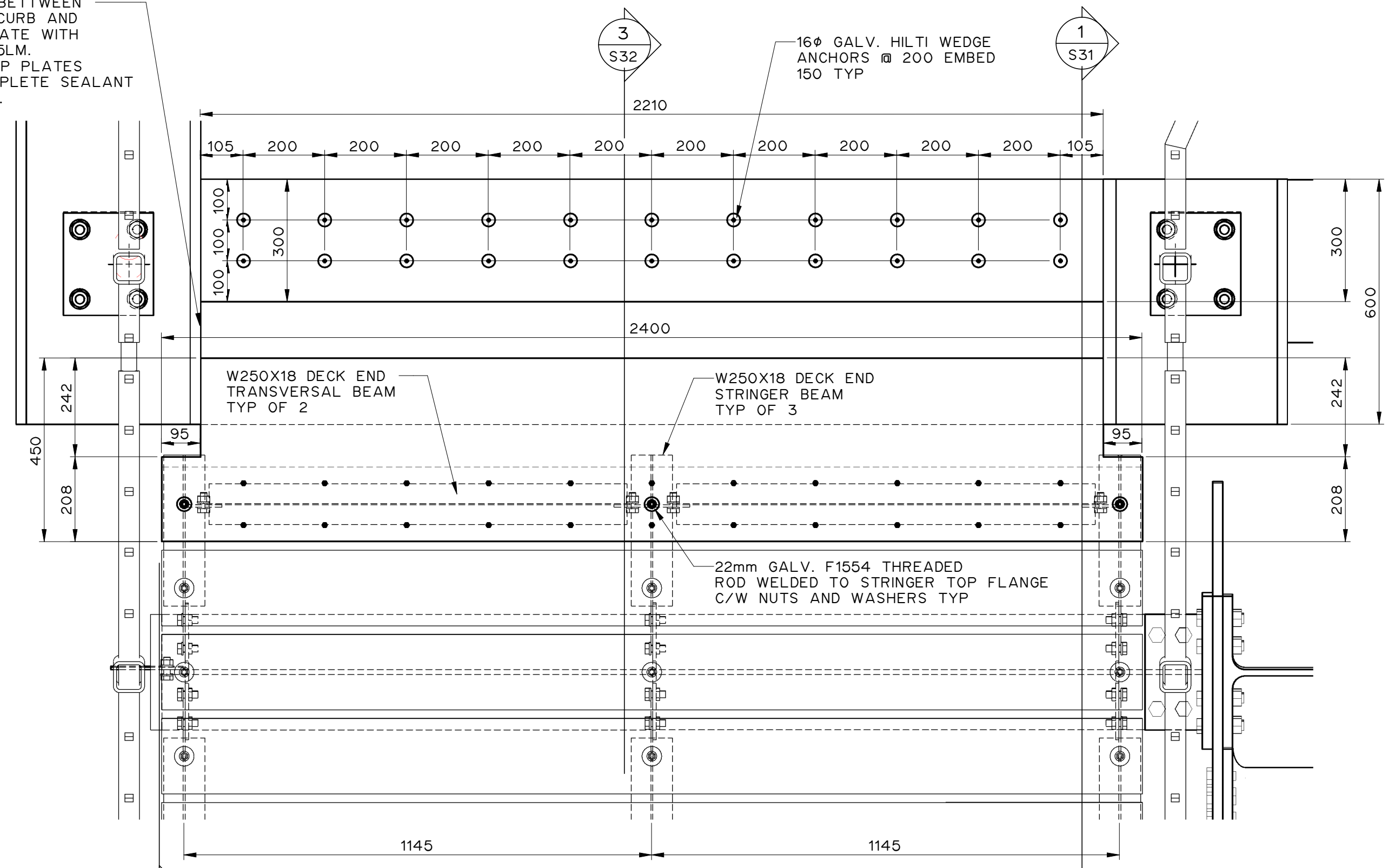


WAYNE BRIDGE 11 (BF9315)

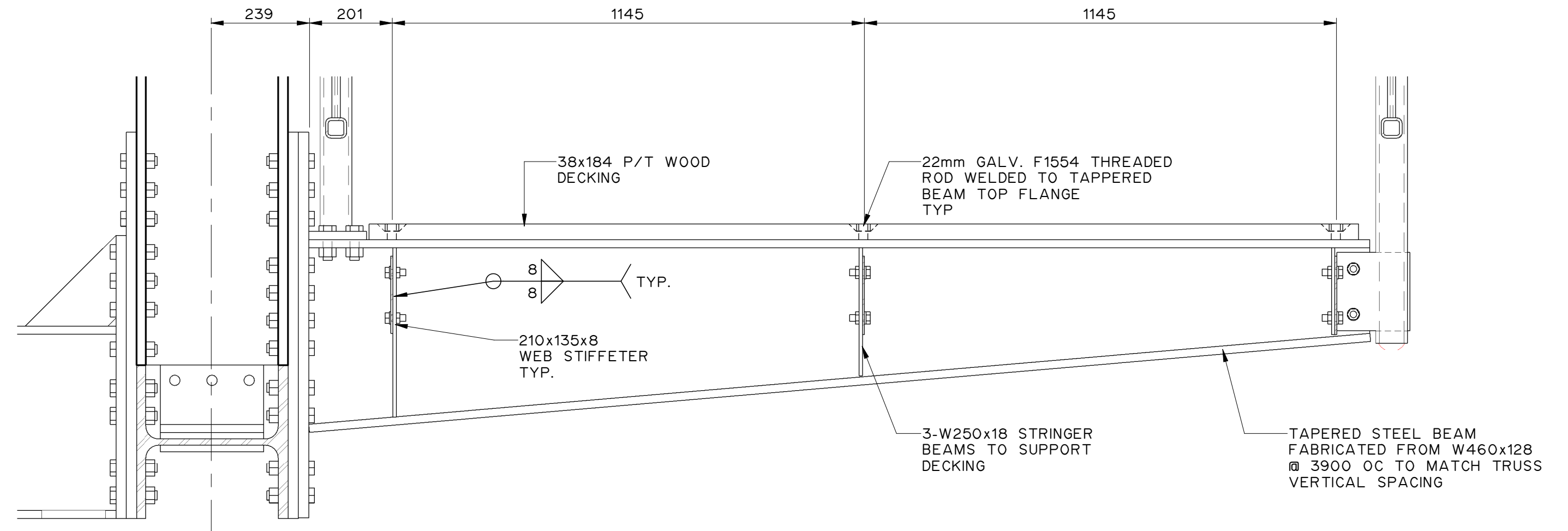
ROSEBUD RIVER BRIDGE
ON HWY 10X, 1km S OF WAYNE

TRUSS LAYOUTS

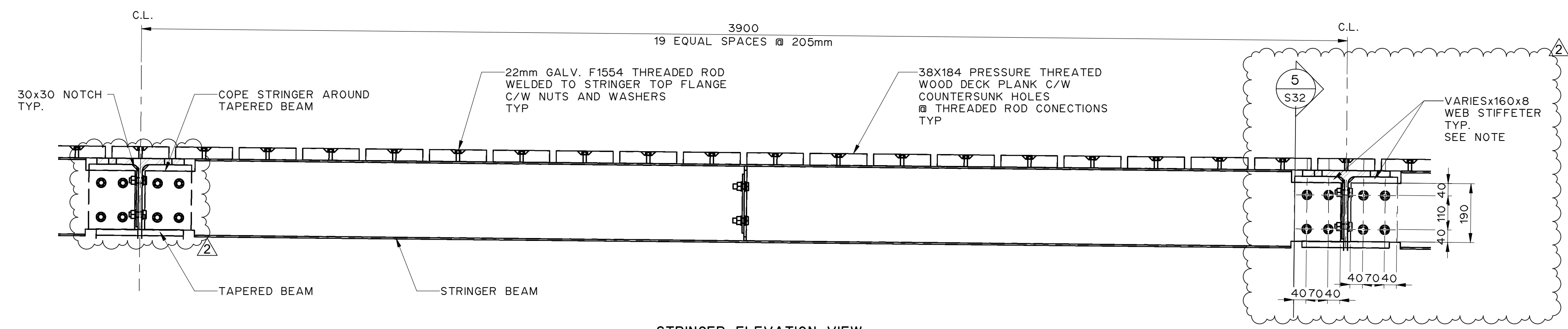
SEAL GAP BETWEEN CONCRETE CURB AND BOTTOM PLATE WITH SIKAFLEX 15LM. INSTALL TOP PLATES AFTER COMPLETE SEALANT CURING TYP.



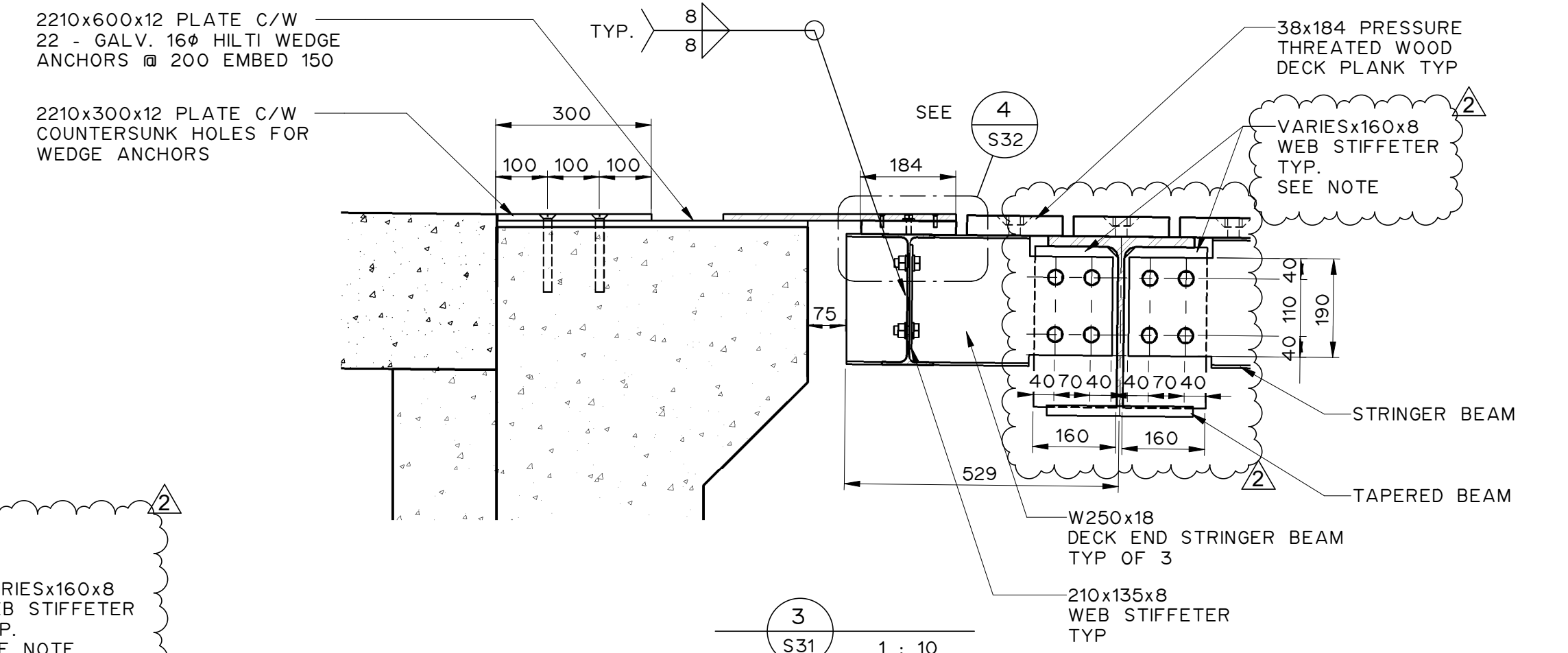
WALKWAY AT ABUTMENT PLAN (TYPICAL FOR BOTH ABUTMENTS)
1 : 10



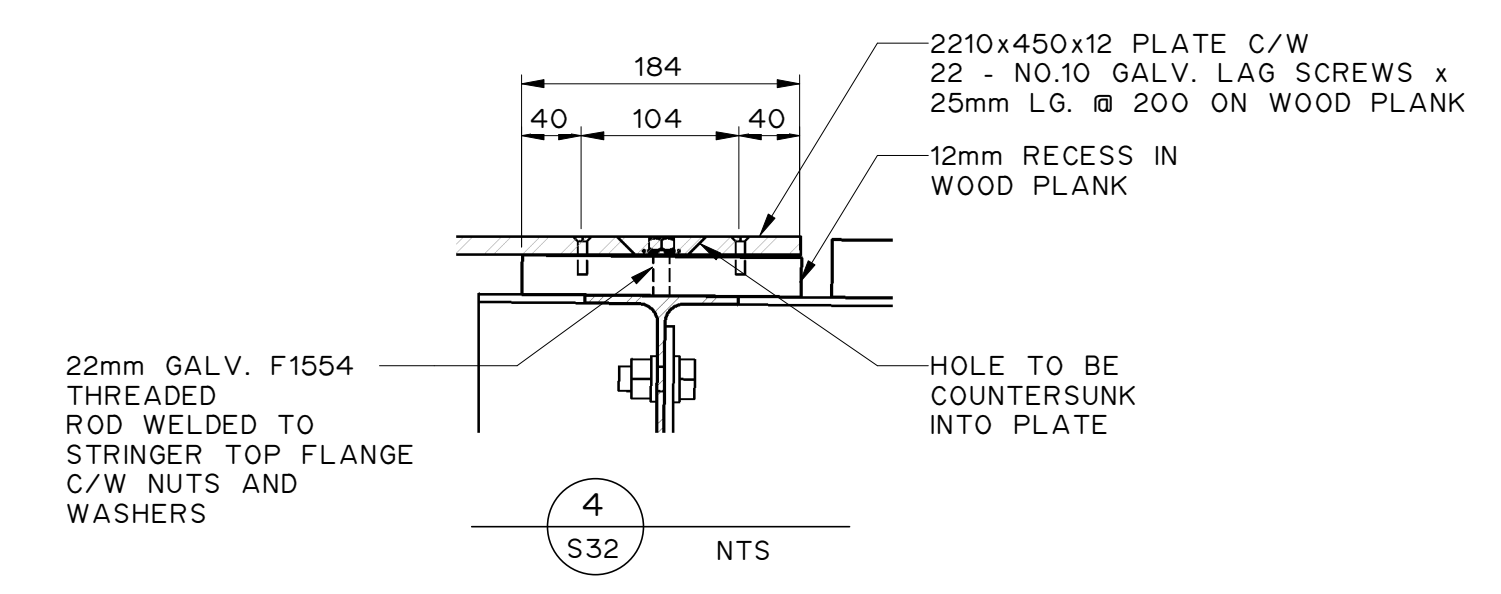
TYP. WALKWAY CANTILEVER BEAM PROFILE
1 : 10



STRINGER ELEVATION VIEW
1 : 10
NOTE: WEB STIFFENERS TO BE FULL DEPTH OF CANTILEVER BEAM WEBS



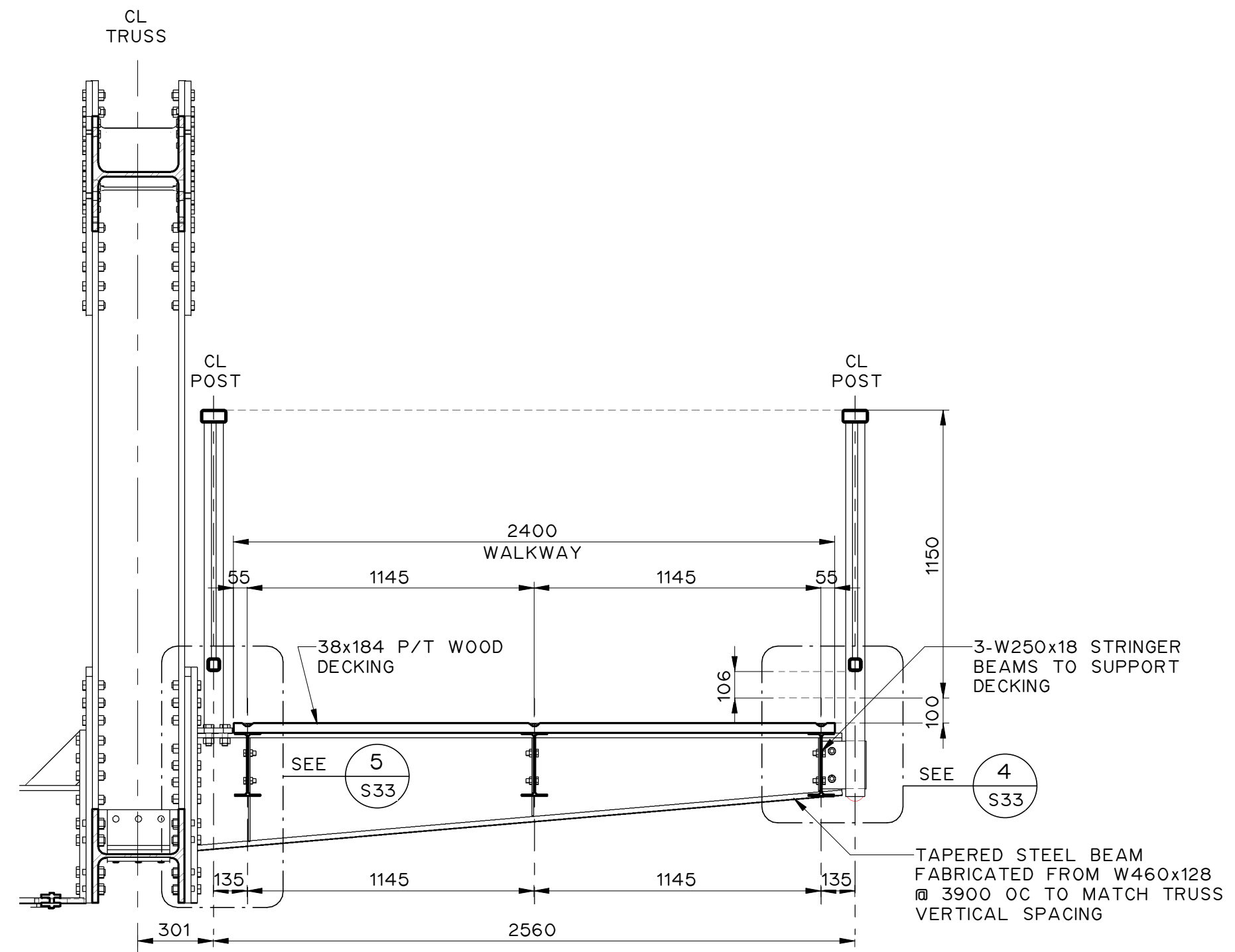
NOTE: WEB STIFFENERS TO BE FULL DEPTH OF CANTILEVER BEAM WEBS



4
S32
NTS

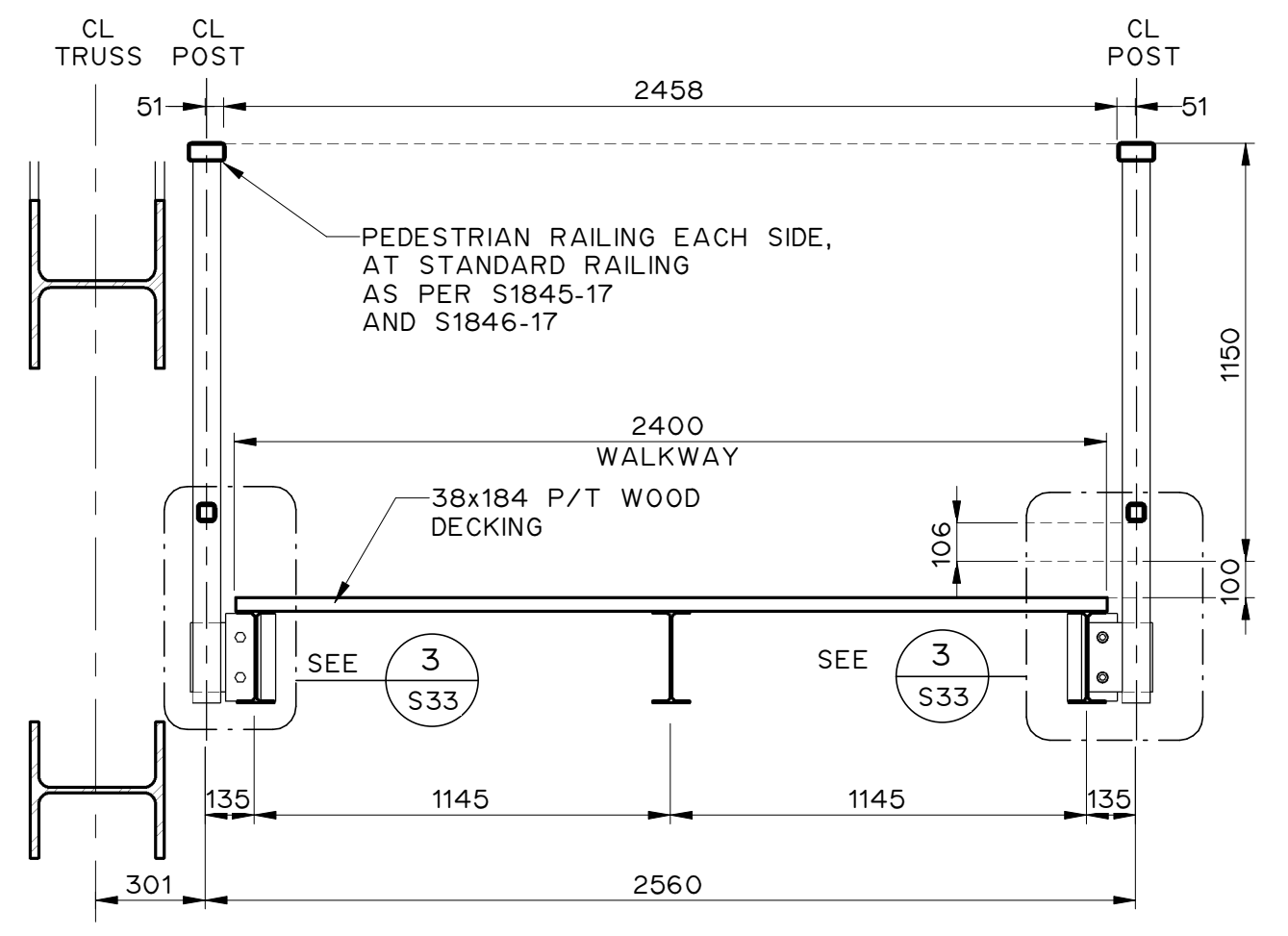
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CONSULTANT 		PERMIT TO PRACTICE PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature: <i>[Signature]</i> APEGA ID: 155319 Date: JULY 28, 2022 PERMIT NUMBER: P 3680 <small>The Association of Professional Engineers and Geoscientists of Alberta (APEGA)</small>		DESIGN 		2 2022-07-28 FOR ADDENDUM #1 1 2022-07-12 FOR TENDER				WAYNE BRIDGE 11 (BF9315) ROSEBUD RIVER BRIDGE ON HWY 10X, 1km S OF WAYNE PEDESTRIAN WALKWAY SECTIONS AND DETAILS	
DATE	PROJECT NUMBER	LOCATION	HIGHWAY	SHEET	DRAWING						
2022-07-28	2450-047-00	NE 7-29-19 W4M	10X		S32						



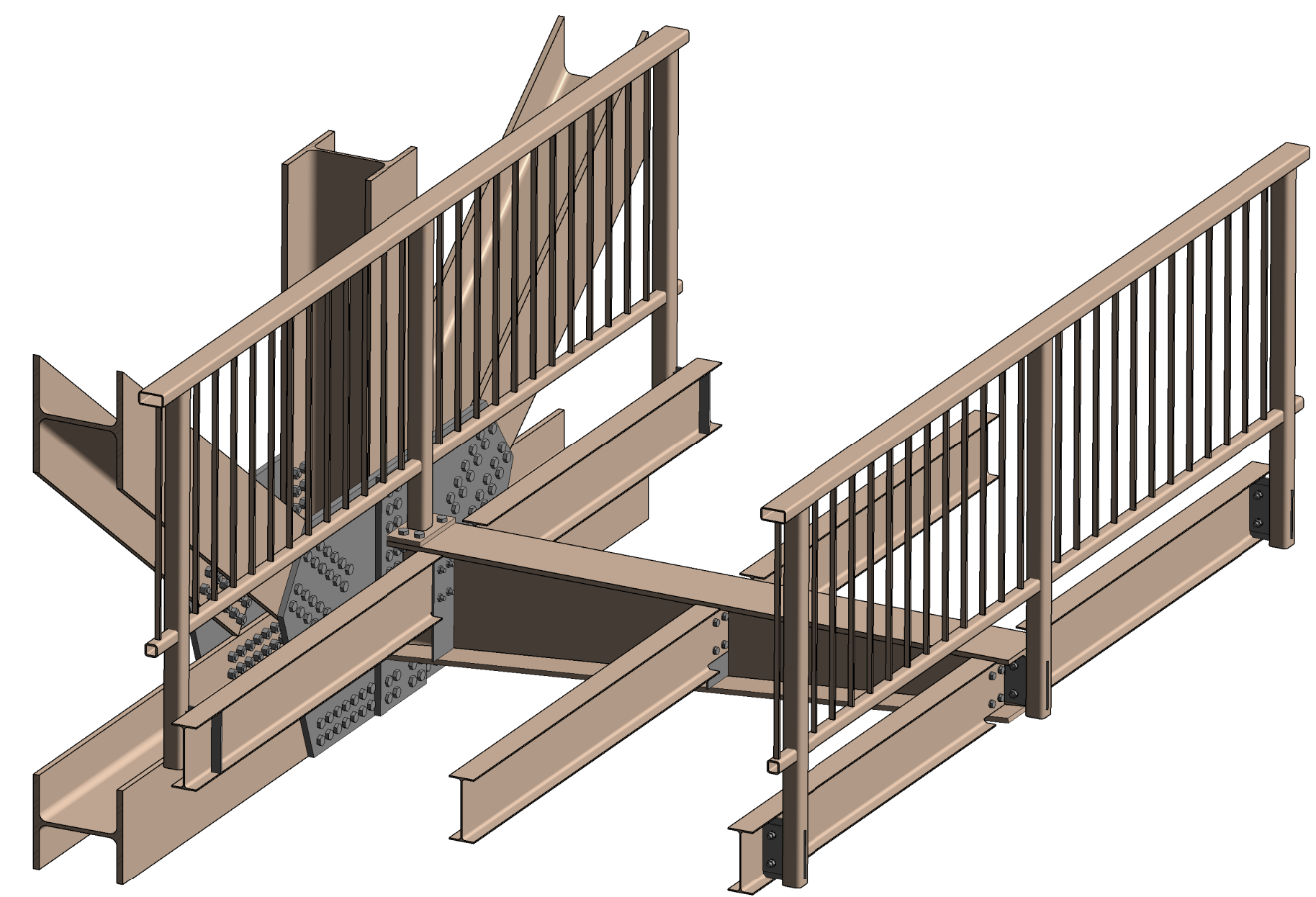
TYP. WALKWAY TAPERED BEAM SECTION AT CANTILEVER BEAMS

1
S31 1 : 20

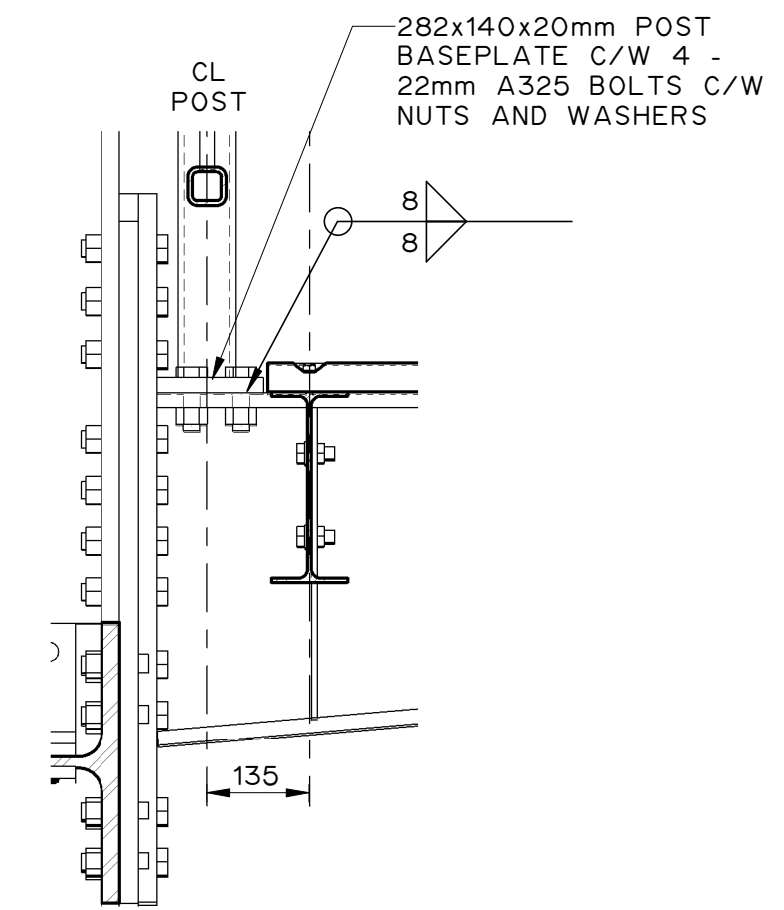
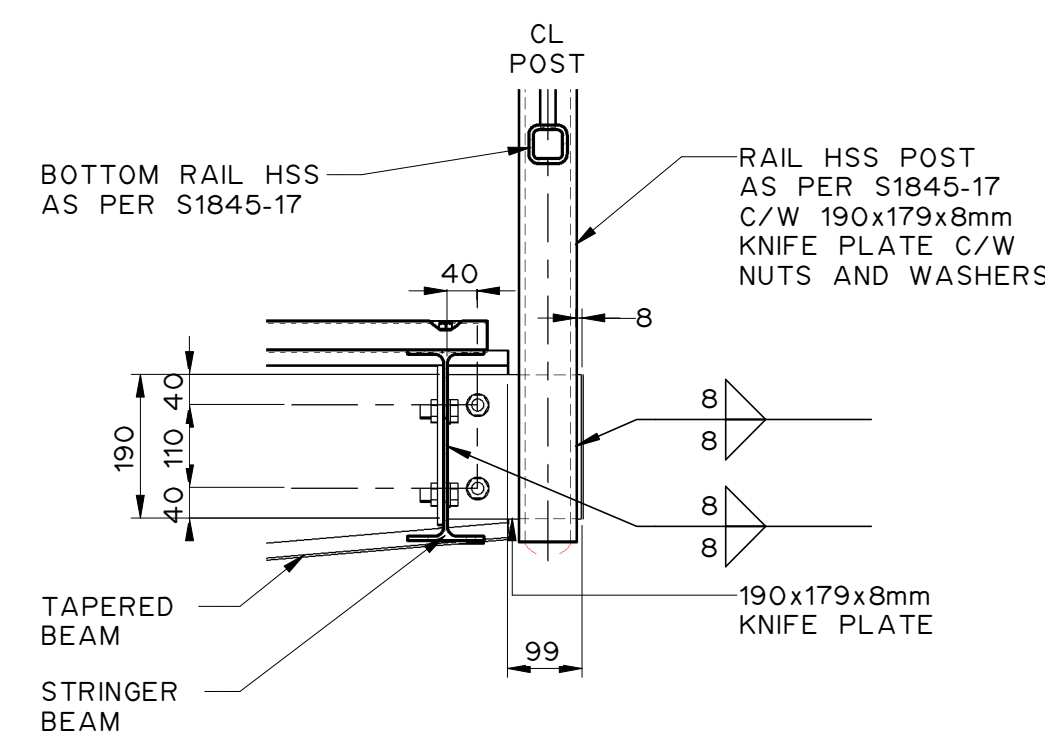
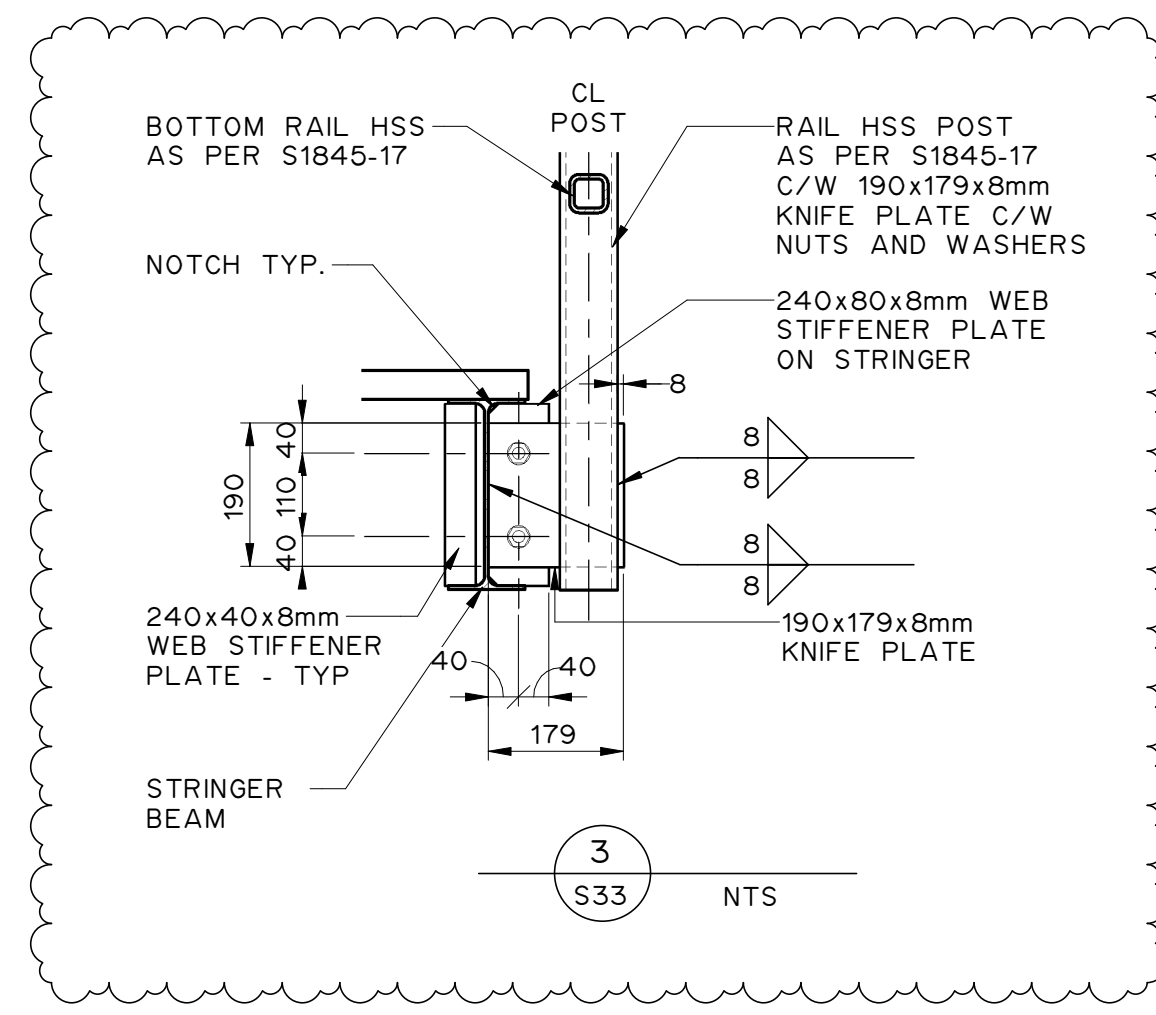


TYP. WALKWAY RAILING POST SECTION AT STRINGERS MID SPAN

2
S31 1 : 20



3D PEDESTRIAN WALKWAY



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