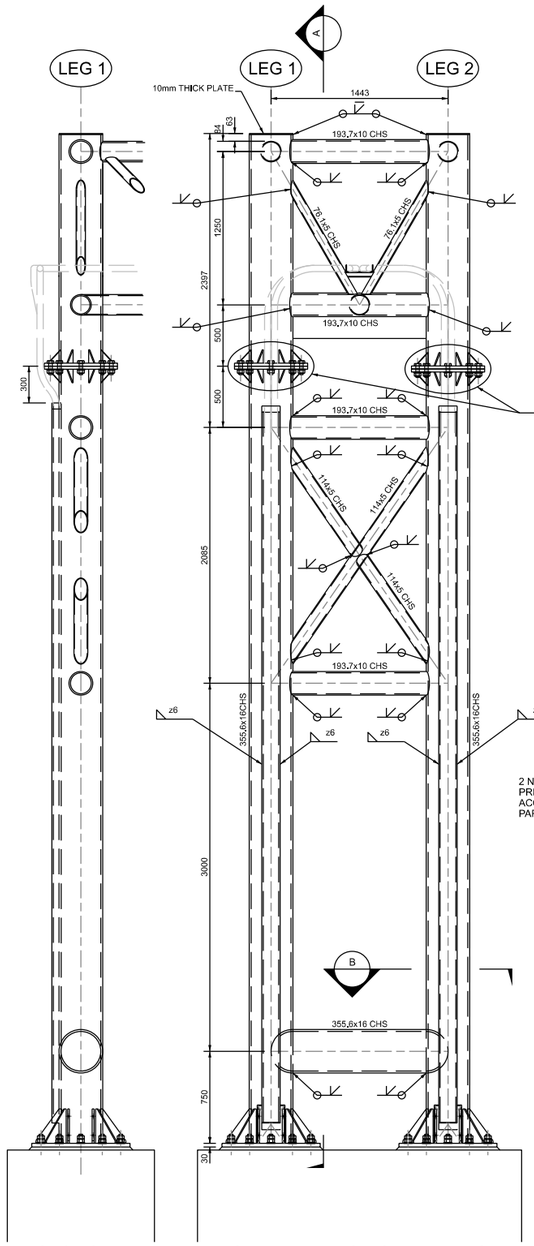
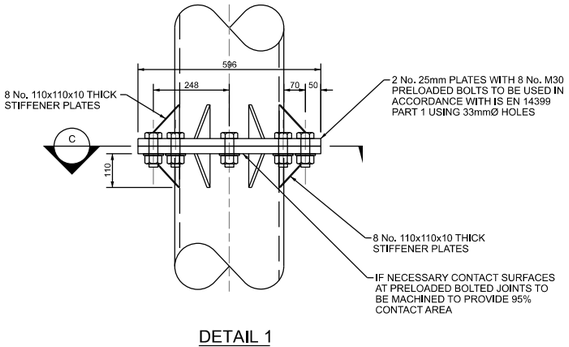
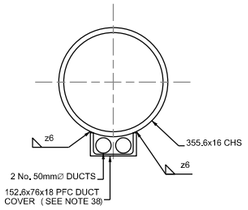


SECTION A
SCALE 1:50

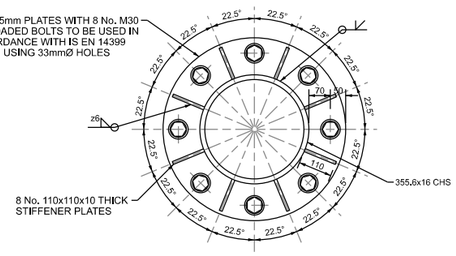
SIDE ELEVATION GANTRY LEG
SCALE 1:50



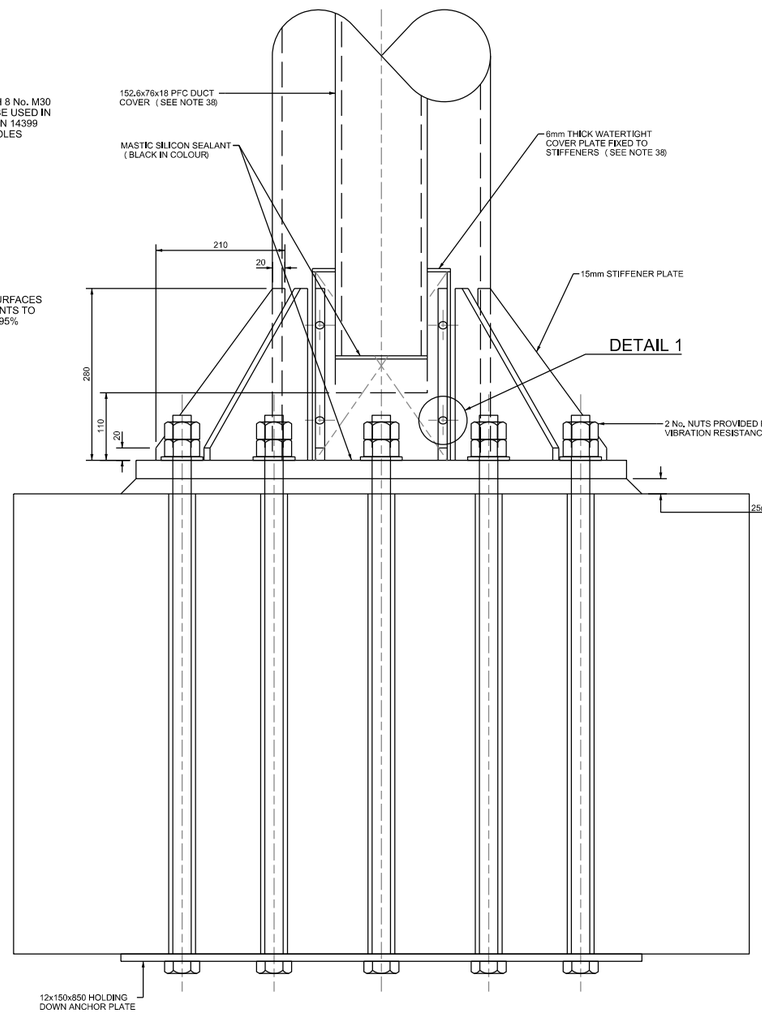
DETAIL 1
SCALE 1:20



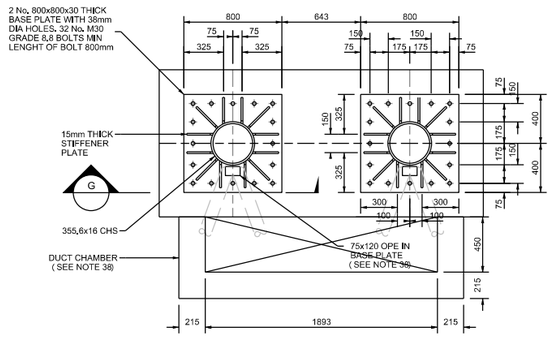
SECTION B
SCALE 1:20



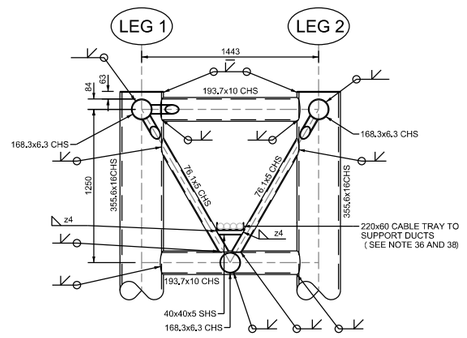
SECTION C
SCALE 1:20



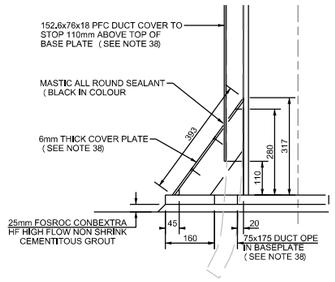
SECTION G
SCALE 1:10



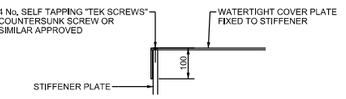
PLAN ON BASE PLATE
SCALE 1:50



SECTION D
SCALE 1:50 CC-SCD-01804



SECTION J
SCALE 1:20



DETAIL 6
SCALE 1:20

NOTES:
1. THE PURPOSE OF THIS DETAIL IS TO ENSURE A CONSISTENCY OF STRUCTURAL FORM FOR GROUP 2 GANTRIES ACROSS THE NATIONAL ROAD NETWORK. ALL SECTIONS SIZES AND DETAILS ARE MINIMUM INDICATIVE SIZES ONLY. TII TAKE NO RESPONSIBILITY FOR THE STRUCTURAL OR GEOMETRICAL ADEQUACY OF THESE DETAILS. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO ANALYSE, DESIGN AND DETAIL THE GROUP 2 GANTRY, CONNECTION DETAILS AND ITS ASSOCIATED REINFORCED CONCRETE FOUNDATION IN ACCORDANCE WITH THE EUROCODES, THEIR ASSOCIATED IRISH NATIONAL ANNEXES, CC-STR-03010, DN-STR-03013, DN-STR-03001 OF TII PUBLICATONS AND ALL OTHER DESIGN DOCUMENTS AS APPROPRIATE TO THE ROADS BEING SPANNED.
2. ALL GANTRY SUPPORT LEGS LOCATED LESS THEN 4,5M FROM THE EDGE OF CARRIAGEWAY SHALL BE DESIGNED TO WITHSTAND THE VEHICLE COLLISION LOADS GIVEN IN TABLE 4.2 OF CC-STR-03010 OF TII PUBLICATIONS REGARDLESS OF PRESENCE OF A VEHICLE RESTRAINT SYSTEM.
3. ALL DIMENSIONS ARE IN MILLIMETERS.
4. THE DESIGNER OF SPECIFIC GANTRIES SHALL PRODUCE STRUCTURAL DRAWINGS FOR THE SPECIFIC GANTRY. ALL INFORMATION THAT IS SITE SPECIFIC MUST BE INCLUDED ON THESE DRAWINGS.
5. STEEL SHALL BE S355J2G3 TO IS EN 10025-2 TO IS EN 10025-6 UNLESS NOTED OTHERWISE. HOLLOW SECTIONS TO BE GRADED S355J2H TO IS EN 10210 UNLESS NOTED OTHERWISE.
6. THE STEELWORK DIMENSIONS SHOWN ARE SPECIFIED FOR A MEAN TEMPERATURE OF 15 DEGREES CENTIGRADE.
7. STRUCTURAL STEELWORK TO BE IN ACCORDANCE WITH CC-SPW-01800 OF TII PUBLICATIONS.
8. PROTECTION TO STEELWORK TO BE IN ACCORDANCE WITH CC-SPW-01900 OF TII PUBLICATIONS. FINAL COLOUR TO BE APPROVED BY TII, ALL SPLICES AND CONNECTORS TO BE FULLY TOP COATED AFTER ASSEMBLY, ALL GAPS SHALL BE SEALED.
9. DIFFERENTIAL SETTLEMEMT BETWEEN THE END SUPPORTS IS TAKEN AS 15mm, A SITE SPECIFIC ASSESSMENT OF DIFFERENTIAL SETTLEMENT SHALL BE CARRIED OUT WITH 15mm DESIGNED FOR AS A MINIMUM.
10. LIFTING EYES TO BE DESIGNED BY STEELWORK FABRICATOR AND SUBMITTED TO THE DESIGNER OF SPECIFIC GANTRIES FOR APPROVAL AT LEAST 4 WEEKS PRIOR TO FABRICATION. TEMPORARY WELDED ATTACHMENTS REQUIRED FOR ERECTION SHALL BE REMOVED AND PROTECTIVE COATING SYSTEM APPLIED IN ACCORDANCE WITH SERIES 1900 OF TII PUBLICATIONS.
11. METHOD OF ERECTION OF GANTRY TO BE APPROVED BY THE DESIGNER OF SPECIFIC GANTRIES.
12. ANY TEMPORARY ARRANGEMENT REQUIRED FOR LANDING MAN BEAM PRIOR TO SITE CONNECTION SHALL BE AGREED WITH THE DESIGNER OF SPECIFIC GANTRIES 4 WEEKS PRIOR TO FABRICATION.
13. TEMPORARY WELDED ATTACHMENTS SHALL BE SUBJECT TO APPROVAL BY THE DESIGN ENGINEER.
14. WELD SYMBOLS ARE IN ACCORDANCE WITH IS EN 22553.
15. ALL FILLET WELDS SHALL BE MINIMUM 6mm LEG LENGTH, AND CONTINUOUS UNLESS NOTED OTHERWISE. DESIGN ENGINEER TO VERIFY.
16. BOLTS SHALL BE AS DESCRIBED ON THE DRAWING. DESIGN ENGINEER TO VERIFY.
17. COPE HOLES AND RE-ENTRANT CORNERS SHALL HAVE A RADIUS OF AT LEAST 50mm OR 1,25 TIMES THE PLATE THICKNESS, WHICH EVER IS GREATER, UNLESS NOTED OTHERWISE.
18. HARD STAMPING SHALL NOT BE PERMITTED ON ANY PERMANENTLY EXPOSED SURFACES.
19. ASSUMED MAX WEIGHT OF ADS 20kg/m².
20. MAX DEPTH OF SIGN 400mm.
21. STRUCTURAL STEELWORK SUPPORTING SIGNAGE OFF GANTRIES HAS A MAX ASSUMED WEIGHT OF 27.9kg/m. THE STRUCTURAL ADEQUACY OF ALTERNATIVE ARRANGEMENTS PROPOSED BY THE DESIGNERS OF SPECIFIC GANTRIES TO ACCOMMODATE SPECIFIC SIGNS SHALL BE VERIFIED BY THE DESIGNERS OF SPECIFIC GANTRIES.
22. VERTICALS 1 AND 4 ARE DESIGNED TO SUPPORT VARIABLE MESSAGE SIGNAGE (VMS) , VERTICAL 2 AND 3 ARE OMITTED TO ALLOW ACCESS TO BACK OF VMS. ALL VERTICALS ARE REQUIRED FOR ADVANCED DIRECTIONAL SIGNAGE, SIZE AND SPACING OF VERTICALS TO BE CONFIRMED BY THE DESIGN ENGINEER.
23. WIND LOADING SHALL BE IN ACCORDANCE WITH IS EN 1991-1-4 AND THE ACCOCIATED NATIONAL ANNEX.
24. ALL BOLTS AND NUTS TO BE VIBRATION RESISTANT.
25. ALL WELDS ARE IN TENSION UNDER TEMPORARY AND IN-SERVICE CONDITIONS.
26. MINIMUM CLASS OF CONCRETE IN FOUNDATION TO BE C32/40.
27. ALL ELEMENTS TO BE LIFTED FROM LIFTING EYES. SLINGS NOT TO BE USED TO PREVENT DAMAGE TO PROTECTIVE COATING.
28. GANTRIES ARE ASSUMED PERPENDICULAR TO THE MAINLINE.
29. SECONDARY SIGNWORK STRUCTURAL STEELWORK NOT TO BE USED FOR LIFTING.
30. THE SECONDARY SIGN STEELWORK VERTICALS AND SIGN LAYOUT ARE INDICATIVE OF THE MAXIMUM SIGN AREA THE GANTRY CAN SUPPORT, THE DESIGNER OF SPECIFIC GANTRIES IS ALSO RESPONSIBLE FOR THE SIGN LAYOUTAND DESIGN OF ANY SECONDARY STEELWORK OF SUPPORTING THE SIGN INCLUDING SECTION SIZES AND SPACING OF VERTICAL MEMBERS, IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO ENSURE THAT THE CLAMPS SUPPORTING THE VERTICAL MEMBERS AND SIGN DO NOT CLASH WITH THE PROPOSED GANTRY SUPPORT MEMBERS.
31. THE RESIDUAL PRECAMBER AFTER DEAD AND SUPERIMPOSED DEAD LOADS FOR SPECIFIC SCHEMES SHALL BE SPAN/400 AND BE ACHIEVED AT MID-SPAN WITH A SMOOTH CURVE BETWEEN MID-SPAN AND END SUPPORTS.
32. CARRIAGEWAY CROSS SECTIONAL DIMENSIONS ARE INDICATIVE ONLY.
33. SIGN SUPPORT DETAILS AND CABLE RUNS REQUIRED SHALL BE CONFIRMED BY THE DESIGNER OF THE SPECIFIC GANTRIES WITH ELECTRICAL SUPPLIER.
34. DUCTING TO BE PROVIDED BY SPECIALIST SUBCONTRACTORS.
35. PROVISIONS OF ELEMENTS SUPPORTING AND ACCOMMODATING ELECTRICAL EQUIPMENT AT SPECIFIC GANTRIES TO BE CONFIRMED WITH TII.
36. CABLE TRAY TO BE HEAVY DUTY TYPE BRE 108 (220x60mm) MANUFACTURED BY ELLICKSON ENGINEERING OR SIMILAR APPROVED.
37. THE DESIGNER OF SPECIFIC GANTRIES SHALL BE SUBJECT TO, AND SHALL COMPLY WITH THE TECHNICAL APPROVAL PROCEDURES FOR STRUCTURES CONTAINED WITHIN DN-STR-03001 OF TII PUBLICAITONS.
38. PROVISIONS OF ELEMENTS SUPPORTING AND ACCOMMODATING ELECTRICAL EQUIPMENT AT SPECIFIC GANTRIES TO BE CONFIRMED WITH TII.

LEGEND
ADS - ADVANCED DIRECTIONAL SIGN.
CHS - CIRCULAR HOLLOW SECTION.
RHS - RECTANGULAR HOLLOW SECTION.

Bonneagar Iompair Éireann
Transport Infrastructure Ireland

ACTIVITY: CC Construction & Commissioning

PUBLICATION TITLE:
GANTRY GROUP 2
DETAILS OF GANTRY GROUP 2 SHEET 2 OF 3

STREAM	SHEET	HISTORICAL REFERENCE	DOCUMENTATION SET	PUBLICATION DATE	PUBLICATION NUMBER (ACTIVITY / STREAM / DRAWING NUMBER)
STANDARD CONSTRUCTION DETAIL (SCD)	A3	RCD/1800/005	STANDARD	DECEMBER 2014	CC / SCD / 01805