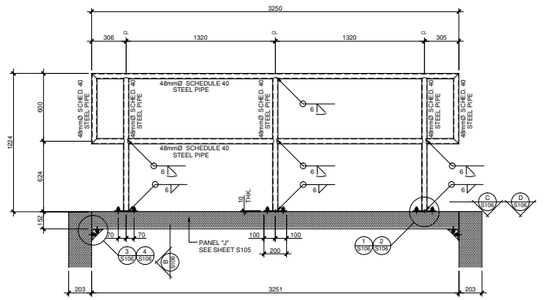
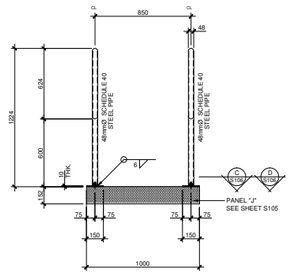
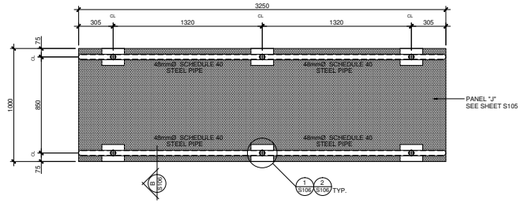


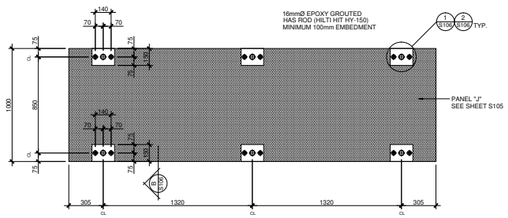
A S106 HANDRAIL - ELEVATION
SCALE: 1:20



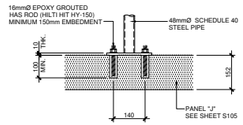
B S106 HANDRAIL - SECTION
SCALE: 1:20



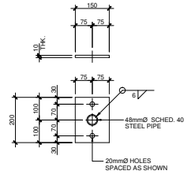
C S106 HANDRAIL - PLAN VIEW
SCALE: 1:20



D S106 HANDRAIL - ANCHOR BOLT LAYOUT
SCALE: 1:20



1 S106 CONNECTION DETAIL
SCALE: 1:10



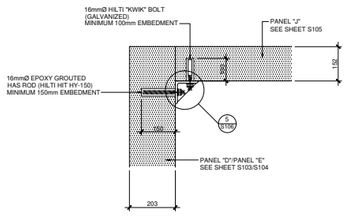
2 S106 BASEPLATE DETAIL
SCALE: 1:10

STRUCTURAL STEEL

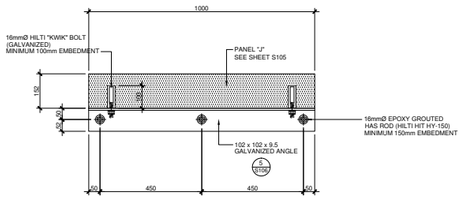
1. STRUCTURAL STEEL IS TO CONFORM TO CSA G40.21 WITH THE FOLLOWING GRADES:
   - HSS SECTIONS, CLASS C - 350W
   - BARS AND PLATES - 260W OR 300W
2. SUPPLY MISCELLANEOUS ITEMS INCLUDING ALL ANCHOR BOLTS, EXPANSION BOLTS, AND OTHER MEANS OF ANCHORAGE NOT SPECIFICALLY CALLED FOR ELSEWHERE. SUPPLY ALL ANGLES, BRACKETS, CLEATS, PLATES, BEAMS, CHANNELS, NUTS, BOLTS AND OTHER ANCILLARY FASTENING NOT SPECIFIED ELSEWHERE.
3. STRUCTURAL BOLTS ARE TO CONFORM TO ASTM A325. MINIMUM 20mm DIAMETER AND CADMIUM PLATED IF EXPOSED TO WEATHER.
4. WELDING TO CONFORM TO CSA W-59 BY FABRICATORS CERTIFIED BY CANADIAN WELDING BUREAU (CWB) TO THE REQUIREMENTS OF CSA W47.1 DIVISION 1 OR 2.1.
5. PREPARE STEEL SURFACES FOR PAINTING TO SSPC-SP3 FOR ALL STEEL AND APPLY MINIMUM (1) COAT OF SHOP PRIMER (COLOR TO BE RED OR AS SPECIFIED BY OWNER).

HANDRAIL SPECIFICATION

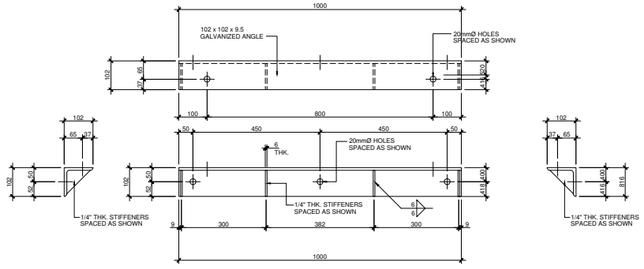
1. USE ASTM A53 GRADE B PIPE WITH A MINIMUM YIELD OF 240 MPa.
2. WELD ALL CONNECTIONS AND GRIND ROUGH EDGES SMOOTH AFTER FABRICATION.
3. ALL STEEL COMPONENTS ARE TO BE PRIMED AND PAINTED TO THE APPROPRIATE TECK STANDARD BASED UPON ENVIRONMENT.
4. HANDRAIL SHALL BE CAPABLE OF RESISTING A 0.90 KN HORIZONTAL LOAD APPLIED AT ANY POINT.
5. WELDING TO CONFORM TO CSA W-59 BY FABRICATORS CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2.1.
6. DO NOT USE HANDRAIL FOR FALL ARREST TIE OFF.



3 S106 CONNECTION DETAIL
SCALE: 1:10



4 S106 CONNECTION DETAIL
SCALE: 1:10



5 S106 CONNECTOR ANGLE DETAIL
SCALE: 1:8

Rev	Date	Description	Drawn	Design	Appd
2	JULY 29, 2016	GENERAL REVISION	BRN	BRN	BRN
1	JULY 7, 2016	ISSUED FOR "CONSTRUCTION"	BRB	BRB	BRN

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ORIGINAL DWG SIZE: ARCH D (24" x 36")

McElhanney
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PROFESSIONAL ENGINEER — B. R. BROOK — PROVINCE OF BRITISH COLUMBIA
July 29, 2016
Approved Sealed

TRIKON PRECAST
601 PATTERSON STREET WEST, CRANBROOK, BC, V1C 6T3

TECK - FORDING RIVER
FISH BARRIER STRUCTURE
HANDRAIL AND CONNECTION DETAILS

Drawing No. S106
Project Number 2441-00428-00
Rev. 2

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PRODUCT
Custom Precast
DRAWING
Fish Barrier: Handrail and Connection Details

WEIGHT

DRAWING NO. **S106**
DATE JULY 29, 2016
SHEET **06 of 8**
UNITS / SCALE As per drawing

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