



## Site Technical Query - Form

SN1809-0000/XE.FRM/0001 Rev 4 03/02/2021

TQ Number:		Project:	
<b>CW2148472 -A010- 0040</b>		<b>Oyu Tolgoi Underground Project</b>	
A. To be completed by or on behalf of the Contractor			
Contractor/Sub-Contractor Name:	MCS International	Date Response Required: (dd/mm/yyyy)	06/08/2022
Contract Title:	Haulage Truck Workshop /C-004D/	Plant Area & No:	1883
Contract No.	CW2148472	Contractor TQ Number:	TWS-0415-TQ-0040
Discipline Codes (Mandatory) <b>D1</b> (CSA) - <input type="checkbox"/> <b>D2</b> (MP) - <input checked="" type="checkbox"/> <b>D3</b> (E&I) - <input type="checkbox"/> <b>D4</b> (Other) - <input type="checkbox"/>			
<i>Description of Technical Query (List affected drawings and specifications):</i> <b>Subject: To change the pipe support type SD-106 to F1 located in the Oil room</b> The designed pipe supports for 1883-FW-2730-G2F-002", 1883-FW-2732-G2F-001" and 1883-FW-2733-G2F-001", sprinkler line are marked as SD-106 on the drawings of 1883-50-T1-1121. On the drawing of 1883-40-B1-1102, designed pipe support types are F1.			
<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Urgent Refer Technical Query instructions			
<i>Proposed Action (List all attachments)</i>  1. The contractor proposes that pipe support type SD-106, as shown on Attachment-1, be replaced with pipe support type F1 as shown on Attachment-2. 2. Also, designed the pipe support clashed with hydraulic oil pipes 1883-OH-2201-S4B-1.5"-NI on the Attachment-1. Therefore, contractor proposes to move 1.2 meters to the right.  <b>Attachments:</b> 1. 1883-50-T1-1121_1 2. 1883-40-B1-1102_2 3. 0000-50-N1-1112_1 4. 0000-40-B1-8005_2			
Effect on cost (USD):	NO		
Effect on schedule (Days):	NO		
Effect on quality:	NO		
Requested by (Name):	Dumburmaa.N	Position:	MP Field engineer
Signature:		Date: (dd/mm/yyyy)	06/05/2022

Proposed action is accepted

**Disclaimer:**

Acceptance or rejection of this TQ is only related with technical aspects.

If Cost or Schedule Impact are associated with this TQ, it must be discussed separately with Jacobs Contract team.

C. Engineering Decision		D. Information		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accept with comments	Reject	<b>Design Change</b> Distribute to: Design Author DA	<b>Cost Impact</b> Distribute to: Contracts, Proj. Controls & Construction Manager	<b>Schedule Impact</b> Distribute to: Proj. Controls & Construction Manager

REVIEWER		APPROVER		CONSTRUCTION MANAGER	
Field Engineer OR Lead Engineer		Lead Engineer OR Chief of Engineering		(If <b>Cost</b> and/or <b>Schedule</b> Impact)	
Date: (dd/mm/yyyy)		Date: (dd/mm/yyyy)		Date: (dd/mm/yyyy)	





PRODUCED BY S. J. GORENCELLI	DESIGNED BY N. CALDWELL	DRAWN BY S. J. GORENCELLI
PROJECT NO SM1809	CHECK DESIGN W. FLANAGAN	CHECK DRAWING N. CALDWELL
CONTRACT NO	LEAD ENGINEER K. SMITH	APPROVAL DATE 08/06/18
DRAWING SIZE A1	AREA PROJECT ENGINEER	ENGINEERING MANAGER E. MARIN
PLOT SCALE AS SHOWN	PROJECT MANAGER	APPROVAL DATE
CAD FILE NAME 1883-4-0-B1-1102.DWG	CLIENT	APPROVAL DATE



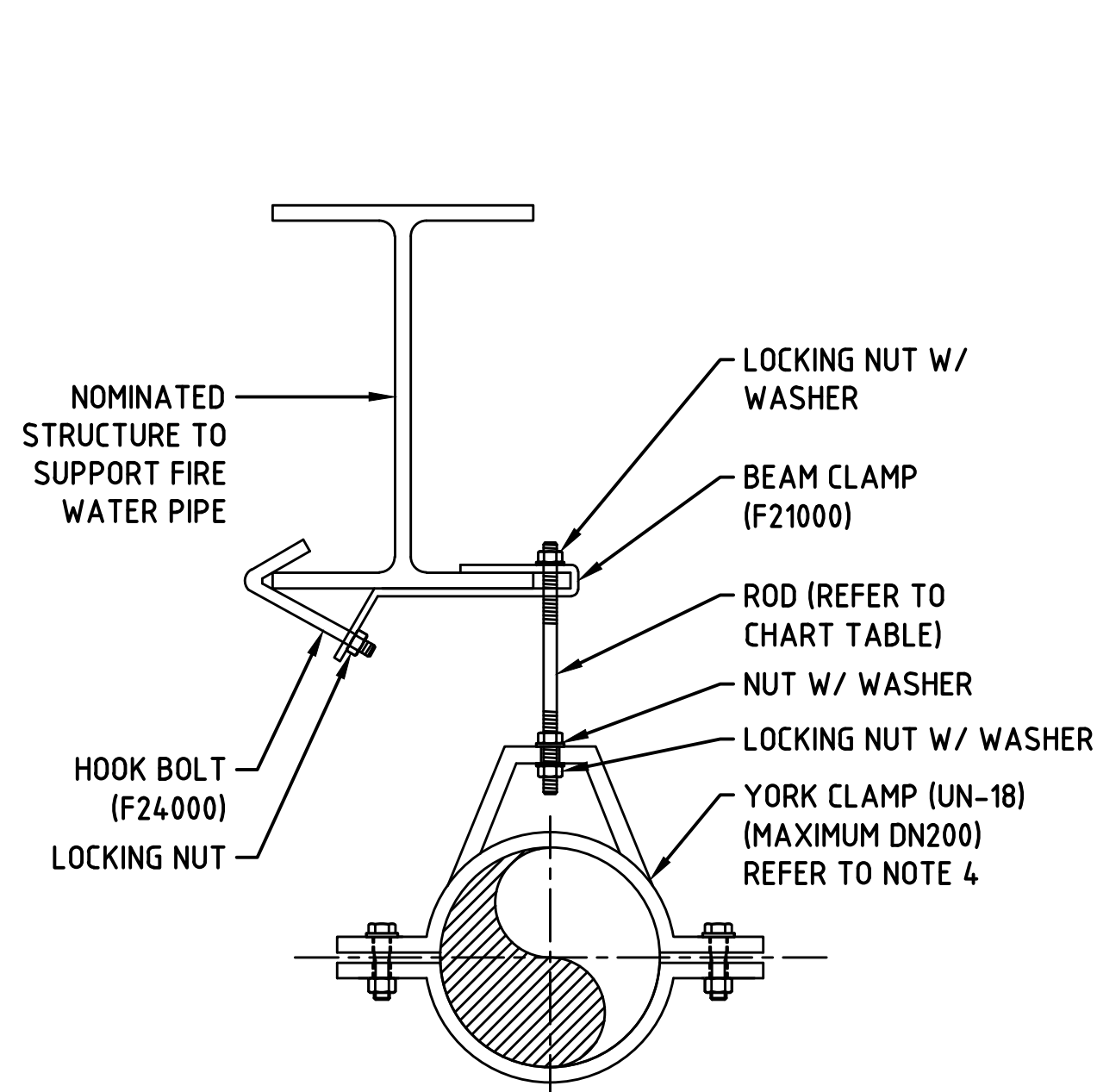




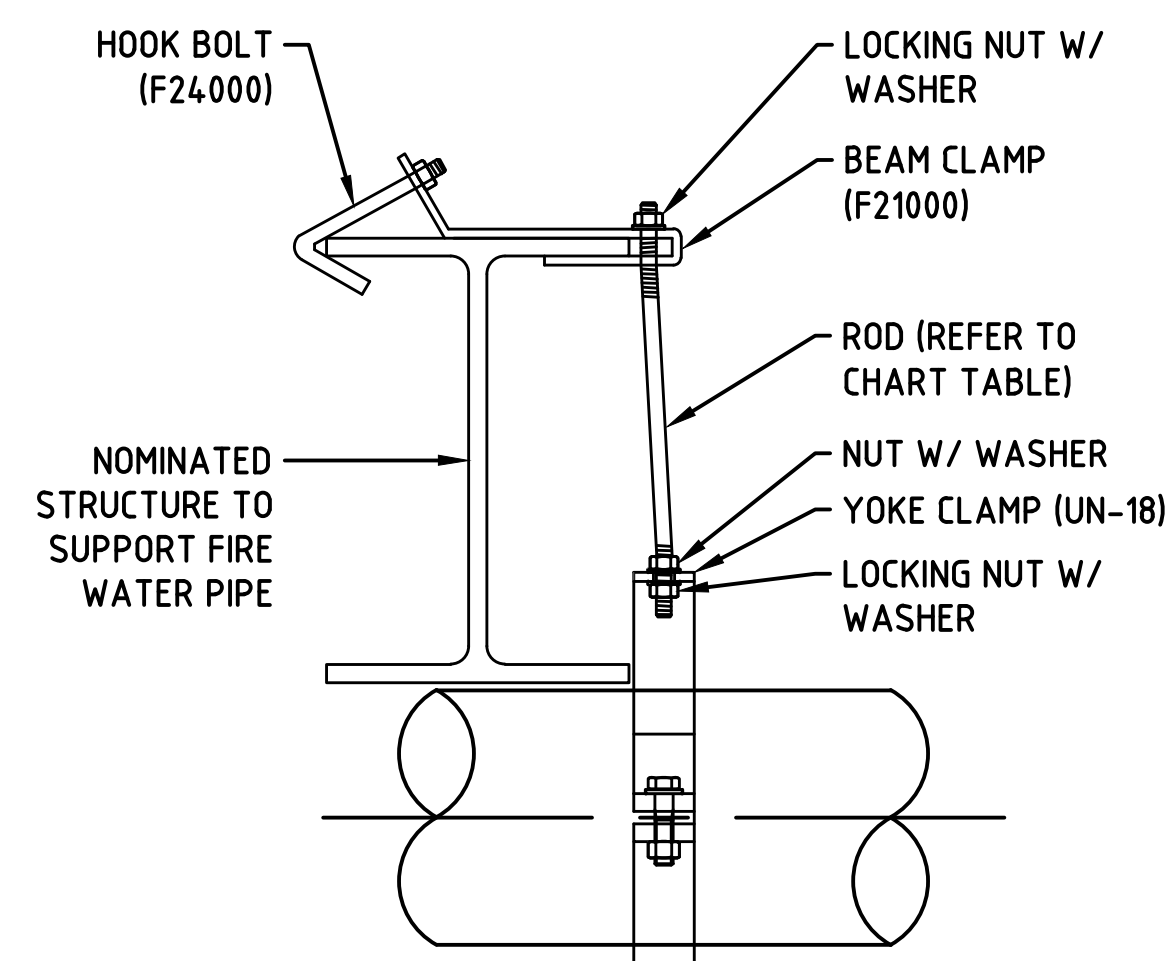
YORK CLAMP  
ROOF SUPPORT (F1)

DETAIL  
SCALE 1:5

F1  
-



YORK CLAMP  
BEAM SUPPORT (F2)  
DETAIL F2  
SCALE 1:5

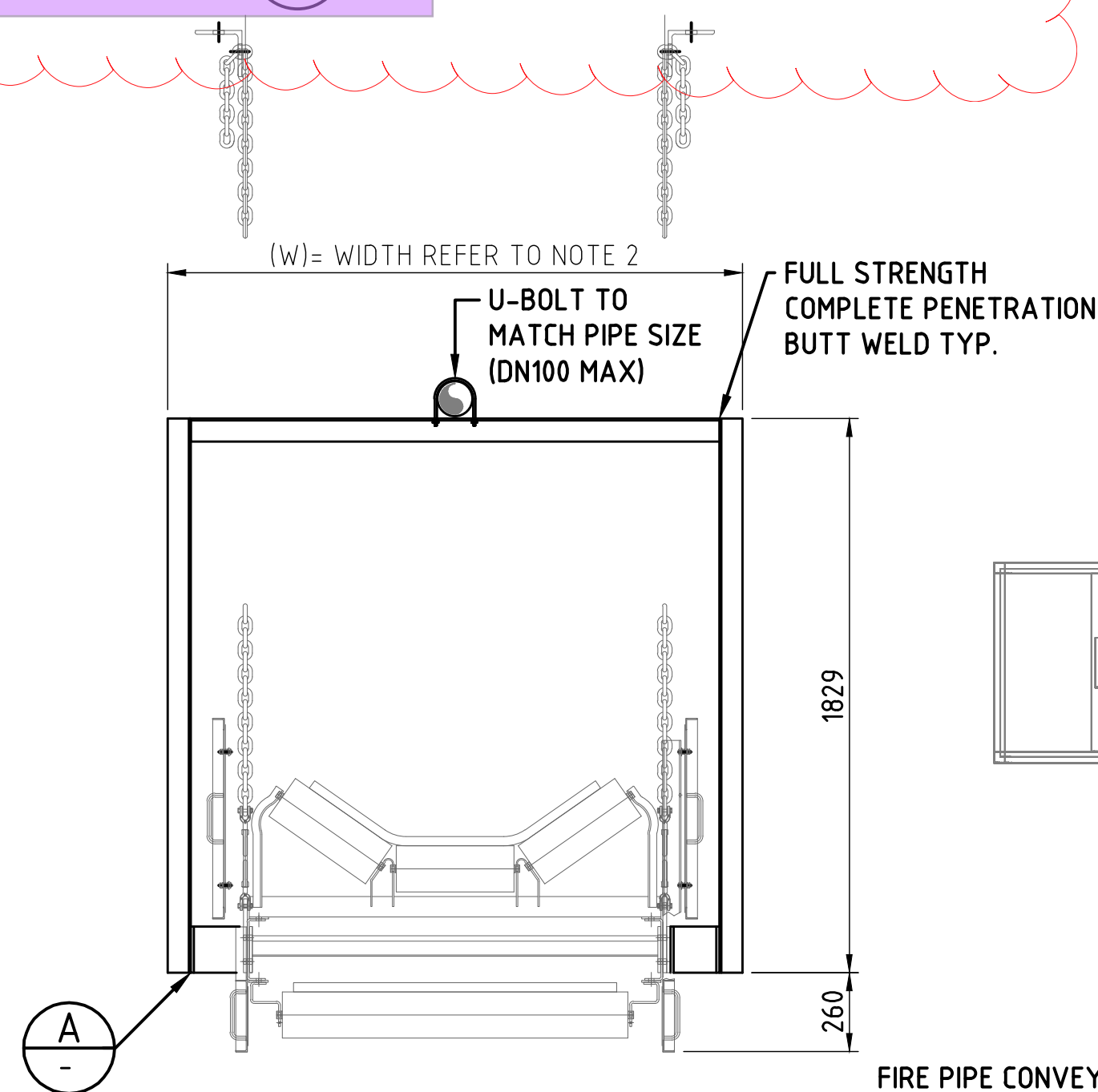


2	<table border="1"> <tr> <th data-bbox="2436 539 2504 546">YOKE CLAMP SIZE</th><th data-bbox="2504 539 2570 546">EYE BOLT SIZE</th></tr> <tr> <td data-bbox="2436 546 2504 550">≤ DN50</td><td data-bbox="2504 546 2570 550">M10</td></tr> <tr> <td data-bbox="2436 550 2504 558">&gt; DN80</td><td data-bbox="2504 550 2570 558">M12</td></tr> </table>	YOKE CLAMP SIZE	EYE BOLT SIZE	≤ DN50	M10	> DN80	M12
YOKE CLAMP SIZE	EYE BOLT SIZE						
≤ DN50	M10						
> DN80	M12						

PIPE SUPPORT SIZE CHART		
SUPPORT ITEM	PIPE SIZE	SUPPORT SIZE
ROD	≤ DN40	M10
	> DN50	M12

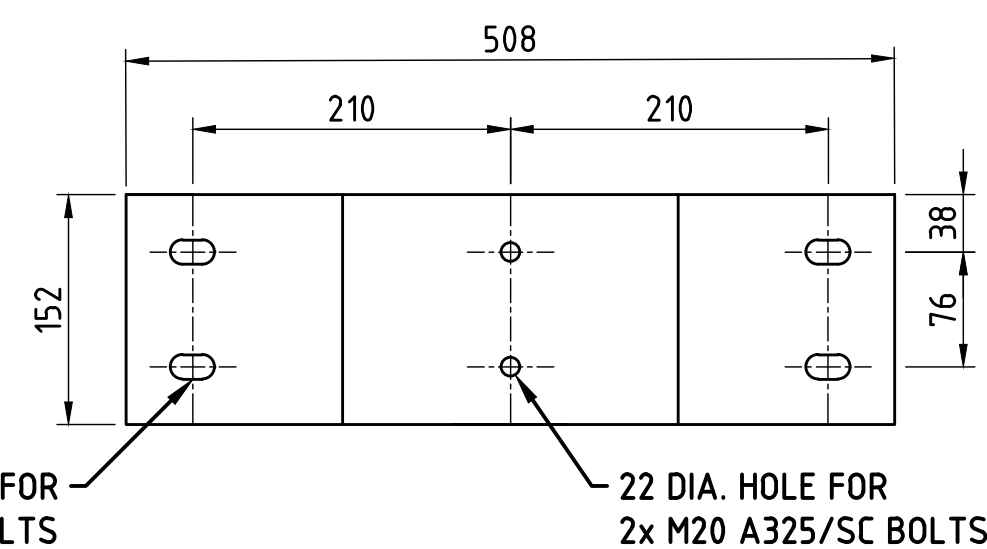
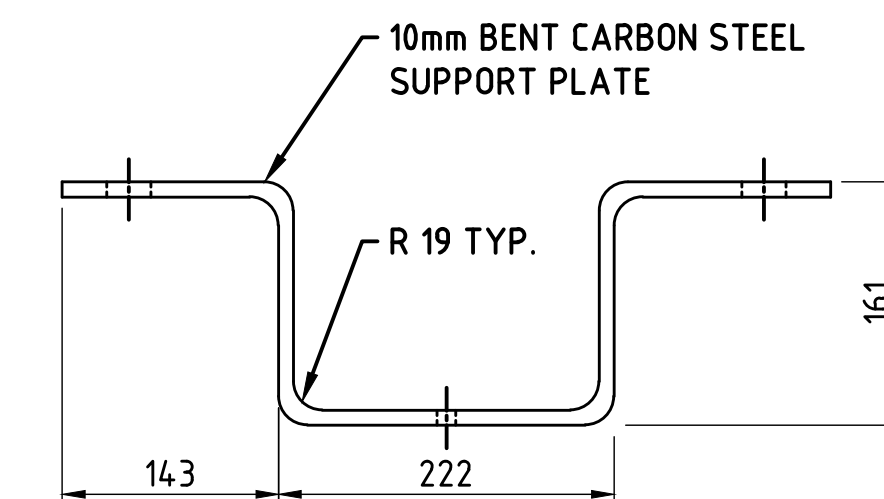
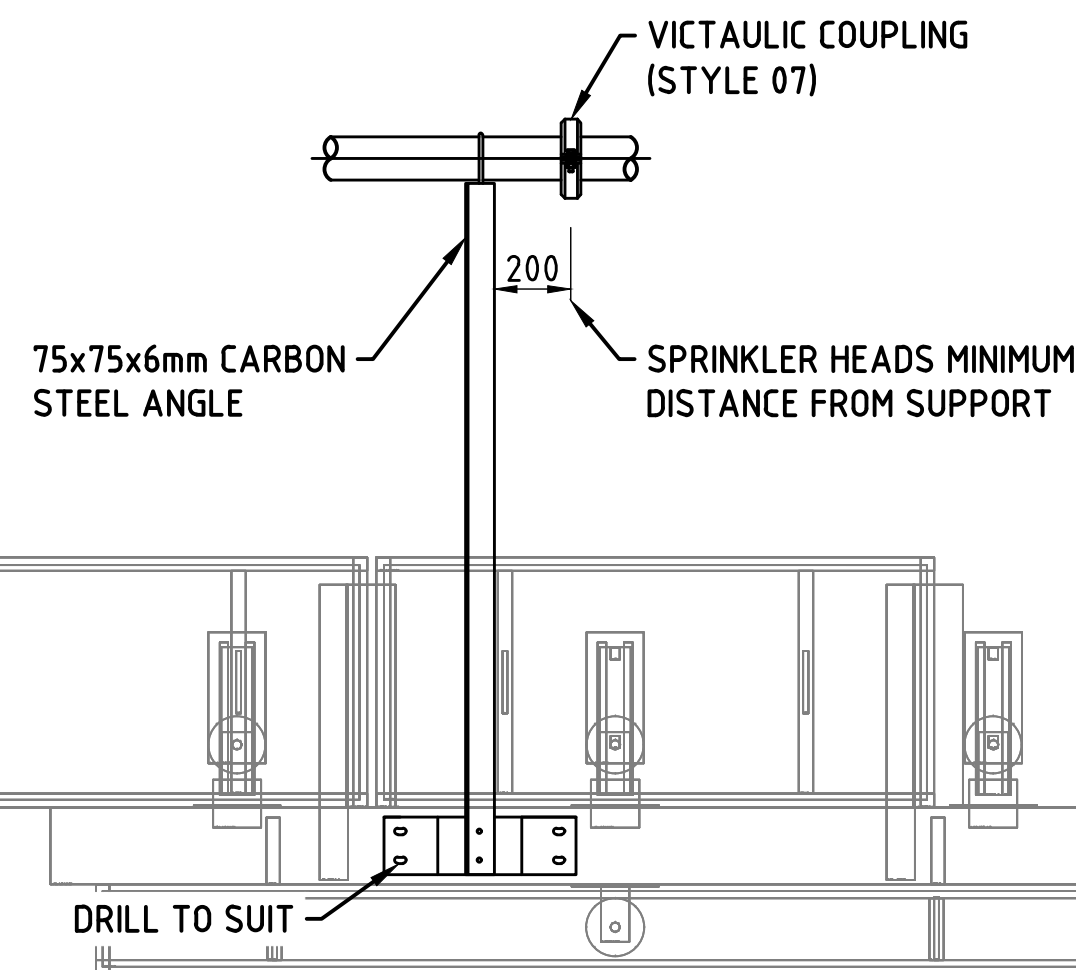
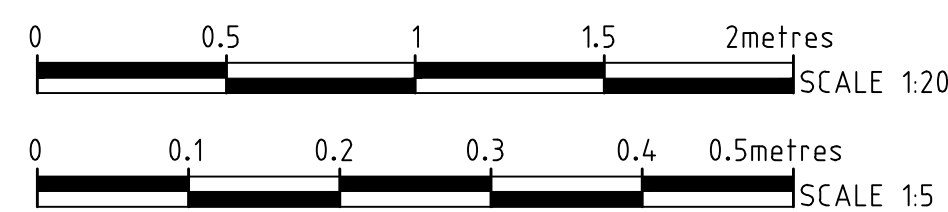
NOTES:

1. ALL MODEL/PART NUMBERS ARE TO BE UNISTRUT OR APPROVED EQUIVALENT. ALL PART NUMBERS REFERENCED ARE FROM UNISTRUT CATALOGUE.
2. REFER TO CONVEYOR SPRINKLER SYSTEM LAYOUT DRAWINGS FOR WIDTH OF FIRE SYSTEM SUPPORT FRAME.
3. ALL FIRE PIPE COUPLING TO BE VICTAULIC STYLE 07 . ALL MECHANICAL TEE TO BE VICTAULIC STYLE 920.
4. DISTANCES BETWEEN PIPE SUPPORTS (FOR ALL FIRE WATER PIPEWORK) SHALL NOT EXCEED THE FOLLOWING PIPEWORK SPANS FOR THE PIPE SIZES ACCORDING TO NFPA 13 SECTION 9.2:  
SIZE DN & SPAN m (MAXIMUM DISTANCE).  
DN32 – 3.66m  
DN50 – 4.57m  
DN100 – 4.57m  
DN150 – 4.57m  
DN200 – 4.57m





FIRE PIPE CONVEYOR SUPPORT  
STEEL FRAME SUPPORT (F3)

DETAIL  
SCALE 1:20



## STEEL FRAME SUPPORT BRACKET CONVEYOR CONNECTION

DETAIL  
SCALE 1:5

		Contractor/Supplier/Vendor Technical Document and Drawing Review for <b>SN180940 - OT Underground Project</b>			
<input checked="" type="checkbox"/> 1 Reviewed with No comments - Proceed					
<input type="checkbox"/> 2 Reviewed. Revise and resubmit incorporating comments					
<input type="checkbox"/> 3 Rejected with Major Comments. Do Not Proceed. Correct and resubmit incorporating comments					
<input type="checkbox"/> 4 Not Reviewed. For information Only					
<input type="checkbox"/> 5 Certified					
<input type="checkbox"/> 6 Cancelled					
<div> <input type="checkbox"/> YES           <input type="checkbox"/> NO         </div>		Submit Certified Document			
Lead Responsible Engineer		Date			
Equipment Tag No.					
Client Document No.		0002-40-B1-8005			
Jacobs Document No. and Revision		CW2108795-B032-0001_R6			

CAUTION - PROJECT DRAWING - NOT AS BUILT

## CONSTRUCTION ISSUE

[illegible]