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BALLAST WATER TREATMENT

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BALLAST WATER TREATMENT

THE INTERNATIONAL CONVENTION FOR THE CONTROL AND MANAGEMENT OF SHIPS' BALLAST WATER AND SEDIMENTS (BWM CONVENTION) WAS ADOPTED IN 2004 TO INTRODUCE GLOBAL REGULATIONS TO CONTROL THE TRANSFER OF POTENTIALLY INVASIVE SPECIES. ONCE THE TREATY ENTERS INTO FORCE, BALLAST WATER WILL NEED TO BE TREATED BEFORE IT IS RELEASED INTO A NEW LOCATION, SO THAT ANY MICROORGANISMS OR SMALL MARINE SPECIES ARE KILLED OFF.

The BWM Convention will enter into force on 8 September 2017.

3DELING OFFER A FAST AND COST EFFECTIVE MEASUREMENT SOLUTION TO SUPPORT THE INSTALLATION OF BALLAST WATER TREATMENT SOLUTIONS. WE WORK WITH OUR CLIENTS TO PROVIDE:

- ACCURATE AS BUILT INFORMATION
- MODELLING OF THE SYSTEM DESIGN
- CLASH ANALYSIS
- RECONFIGURATION INFORMATION FOR THE EXISTING SPACE
- ISO DOCUMENTATION IN SUPPORT OF INSTALLATION.

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LASER SCANNING AND POINT CLOUD REGISTRATION OF INSTALLATION AREA

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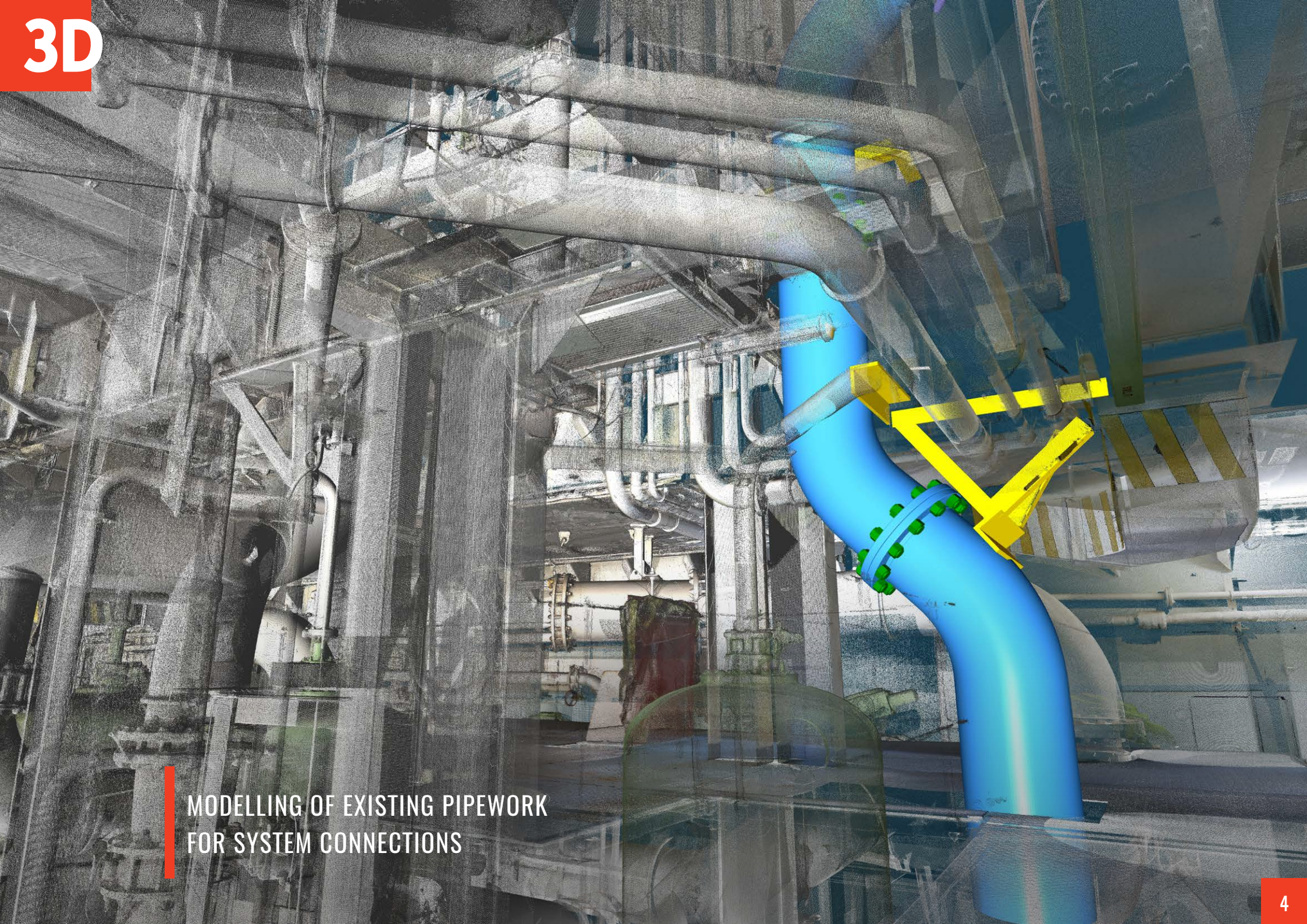

MODELLING OF EXISTING PIPEWORK FOR SYSTEM CONNECTIONS

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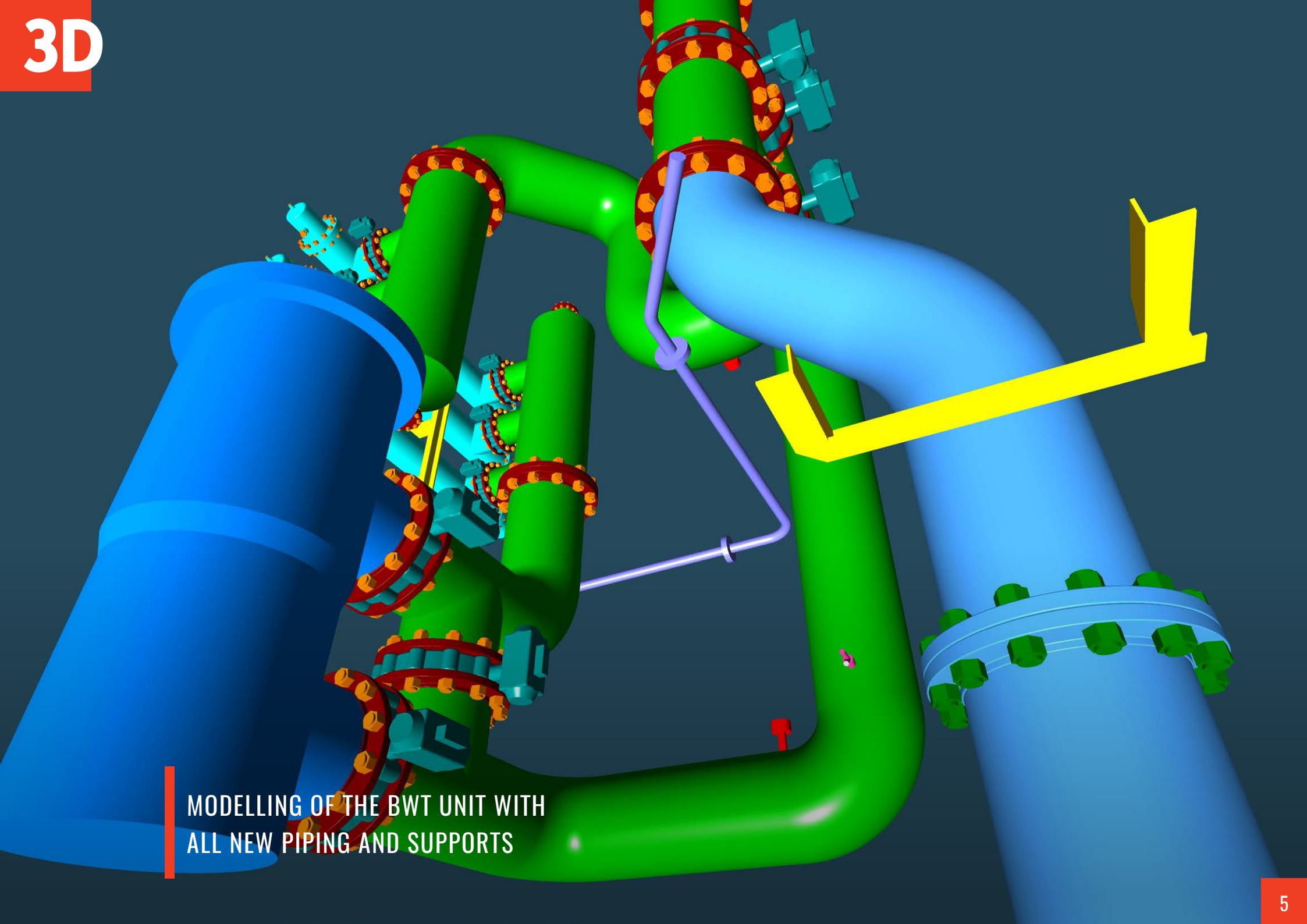
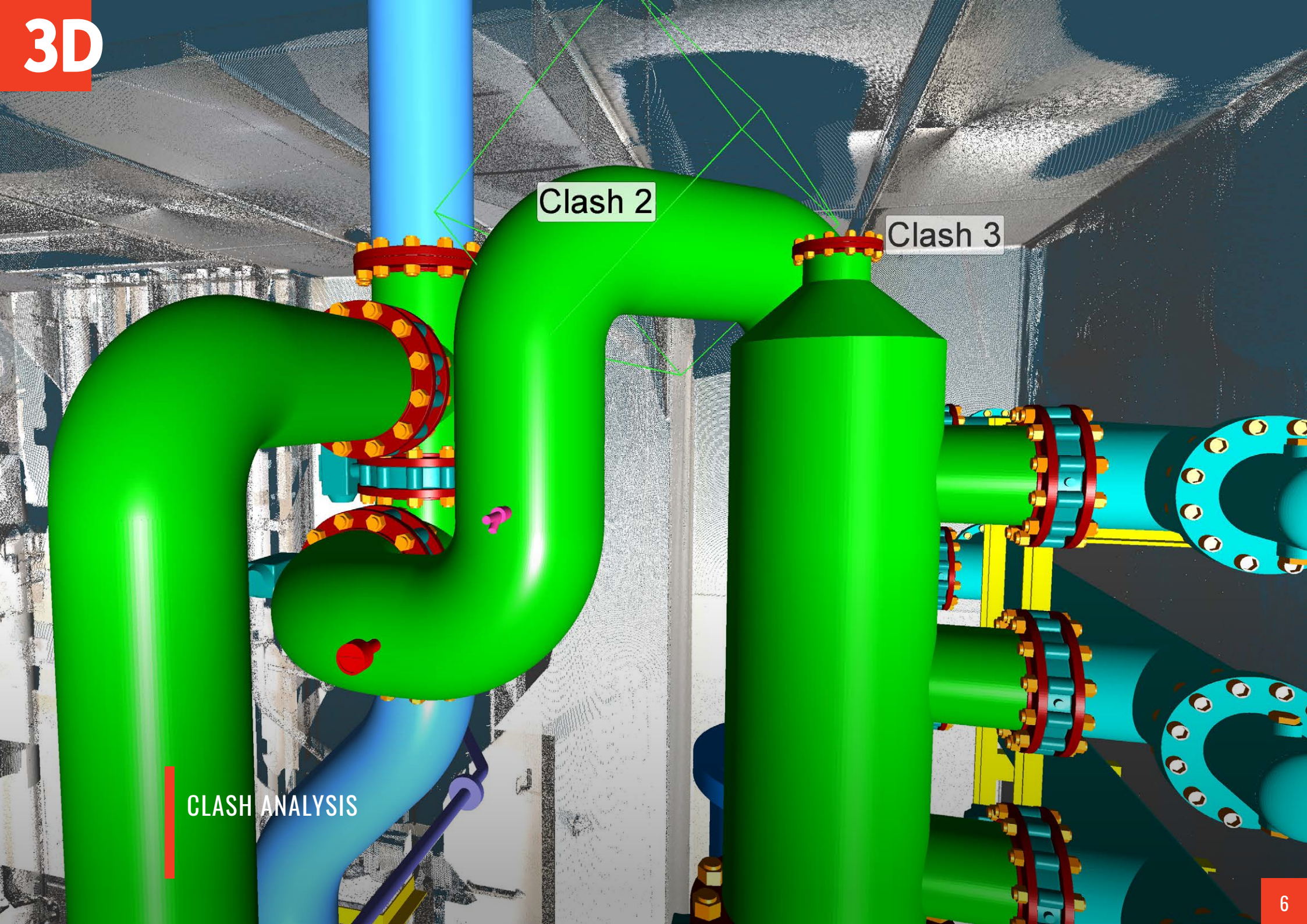
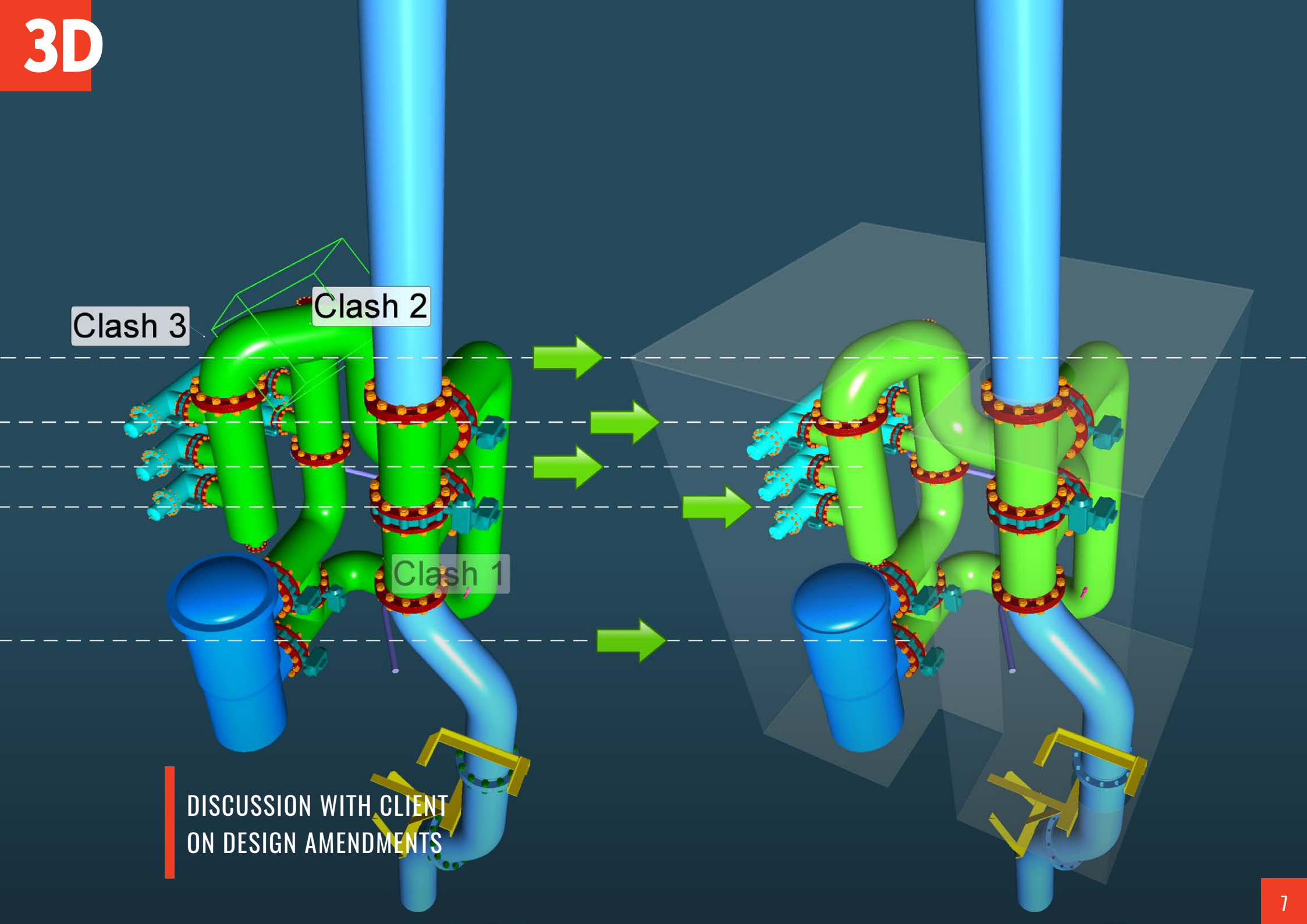


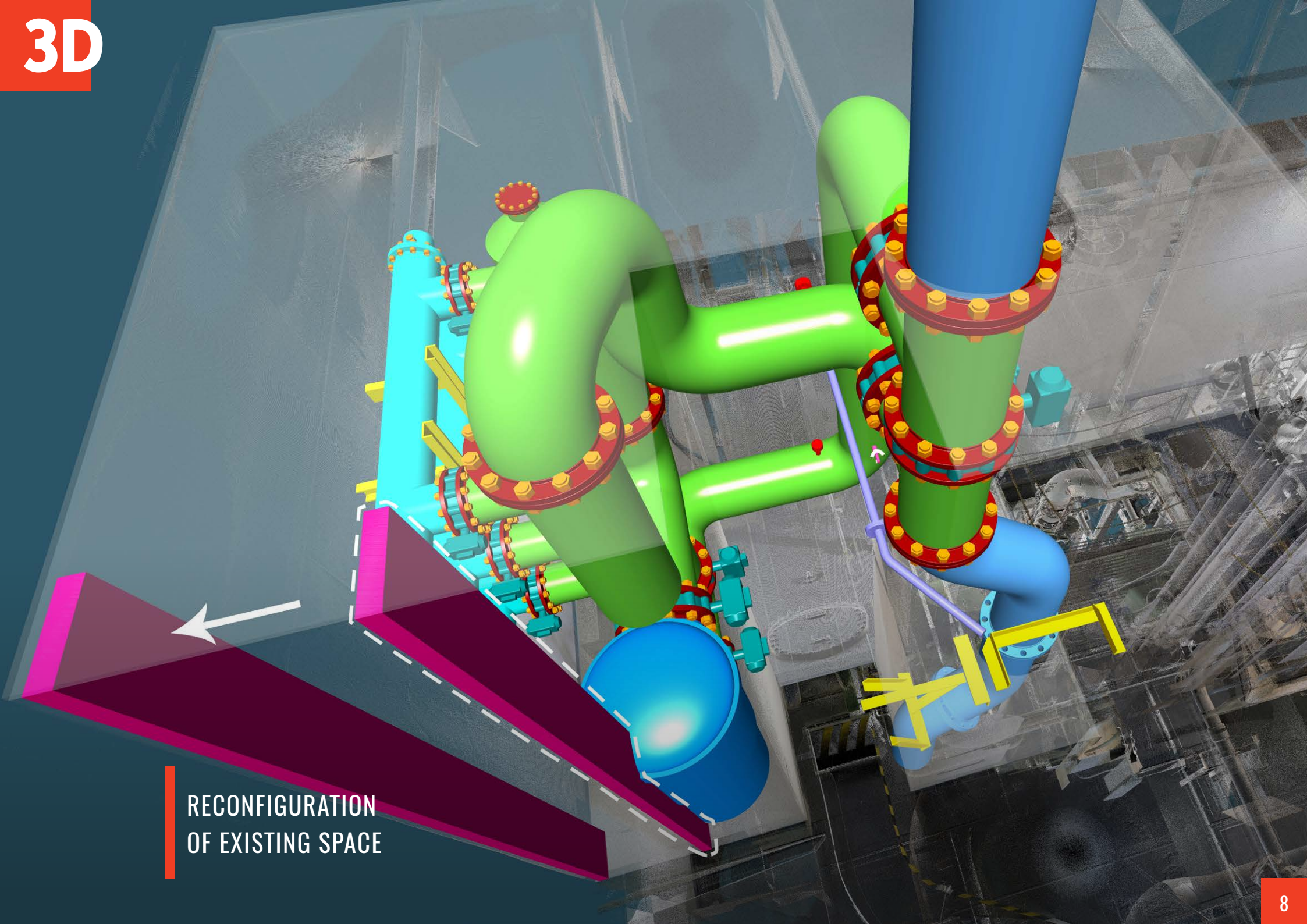
MODELLING OF THE BWT UNIT WITH
ALL NEW PIPING AND SUPPORTS



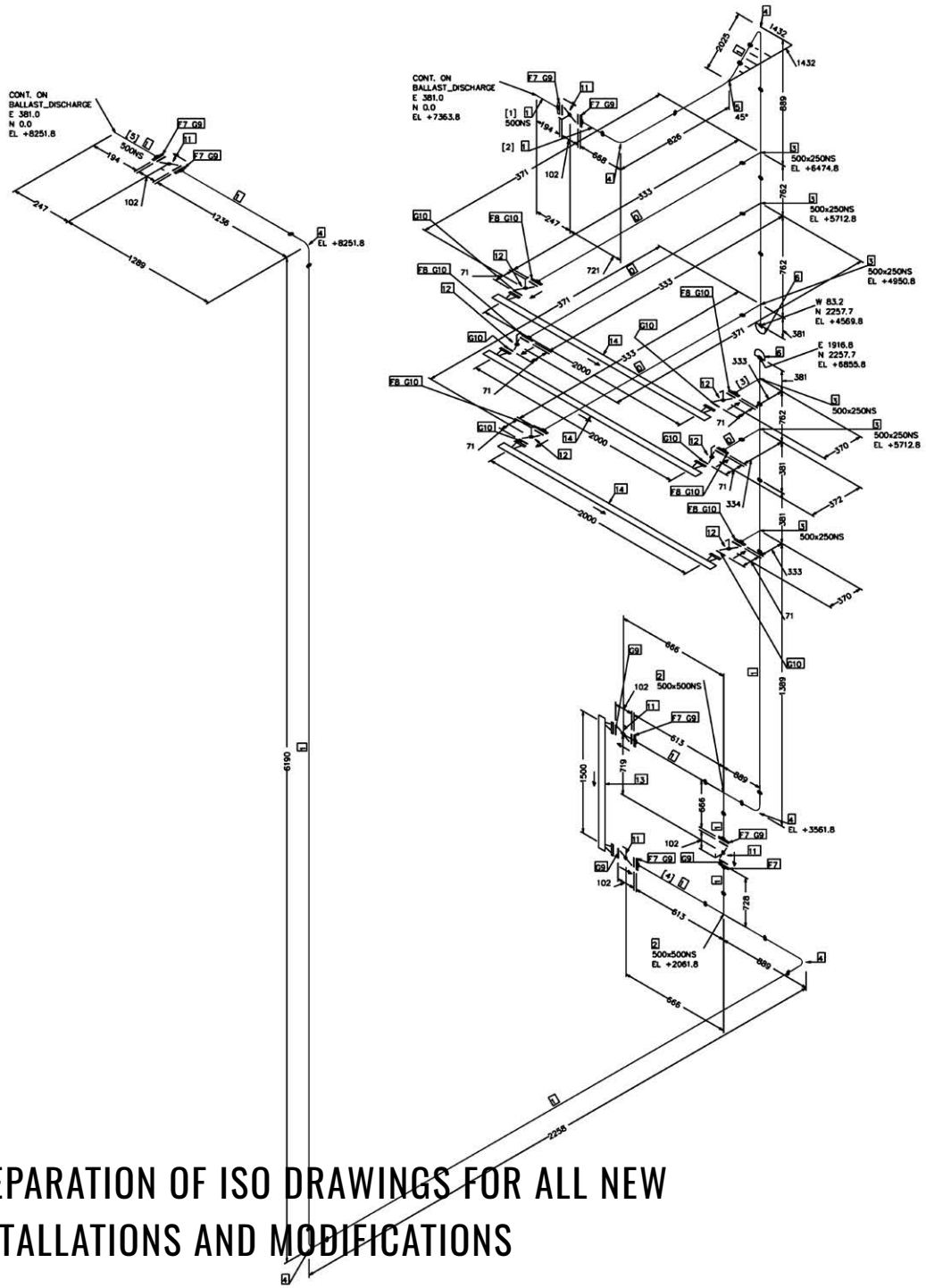
CLASH ANALYSIS



DISCUSSION WITH CLIENT
ON DESIGN AMENDMENTS



RECONFIGURATION
OF EXISTING SPACE



FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	BORE	ITEM CODE	QTY
	PIPE			
1	ERW TUBE, STD CS, ASTM A105, type E (Ej=0.85)	500	S1/PA	10408
	FITTINGS			
2	TEE ANSI B16.9 BW STD CS, ASTM ASTM A105	500 x 500	S1/TA-2_11	2
3	TEE ANSI B16.9 BW STD CS, ASTM ASTM A105	500 x 250	S1/TA-2_1V	6
4	ELBOW SR ANSI B16.28 BW CS, ASTM ASTM A105	500	S1/EB-2	6
5	ELBOW 45DEG ANSI B16.9 BW CS, ASTM A105	500	S1/EC-2	1
6	CAP SHORT ANSI.B16.9 BW CS, ASTM A105	500	S1/ND-200	2
	FLANGES			
7	FLANGE ANSI B16.5 SOW ƒ150.RF CS, ASTM A105	500	S1/FH-BB	8
8	FLANGE ANSI B16.5 SOW ƒ150.RF CS, ASTM A105	250	S1/FH-BB	6

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	BORE	ITEM CODE	QTY
	GASKETS			
9	GASKET 1/16" thick filled or reinforced PTFE, ASME B16.21	500	S1/GC-BB-SF_11	10
10	GASKET 1/16" thick filled or reinforced PTFE, ASME B16.21	250	S1/GC-BB-SF_VV	12
	VALVES / IN-LINE ITEMS			
11	BUTTERFLY C-VALVE ANSI ƒ150.RF Hylark XL 130 CS body w/ 316 SS trim, RFTE ST, GO	500	S1/AF-WBBS-H.X	5
12	VALVE BUTTERFLY LUG ƒ150.RF CS body w/ 316 SS trim, RFTE ST, GO	250	S1/VF-BBA_VV	6
	INSTRUMENTS			
13	FILTER FLANGED 500 ƒ150 RF CS, ASTM A105	500	S1/OM-Filter-B	1
14	UV REACTOR FLANGED 2000mm ƒ150 RF CS, ASTM A105	250	S1/OM-UV-React	3

PIPE SPOOLS

[1] [2] [3] [4] [5]

PREPARATION OF ISO DRAWINGS FOR ALL NEW INSTALLATIONS AND MODIFICATIONS

3Deling
3D laser scanning services

REVISION:	0
DATE:	24 FEB 2017
MOC NO:	---
PROJECT NO:	17108
TRACING SPEC:	
THERMAL INSU SPEC:	
BATCH REF:	BWT
PIPING SPEC:	S1
ISS:	1

NEW BWT SYSTEM

Revision	Description	Date	Approved by
0	To be validated	24 FEB 2017	GC

[1] DENOTES PIPE SPOOL NO
[ ] DENOTES PARTS LIST NO

SHOP WELD | FIELD WELD | SOCKET WELD | SCREWED JOINT | COMPN JOINT | SITE CONNECTION | PIPE SUPPORT | LAGGED PIPE | TRACED PIPE

PIPE NS	500	250	0
CL LENGTH	26.6	6.5	2.0