ISOMETRIC IFC - CHECK LIST

Line Number	021908IA0036	**Stress CN / Level**	**Nº** --	**Level:** I
Isometric Number	021A1021908IA0036_01	**Process Approval Required**	**YES** ☐	**NO** ☒
		Intrumetation Approval Required (N/A)	**YES** ☐	**NO** ☒

Information to be attached:					
Master Copy of PID:	**YES** ☑	**N/A** ☐	**Nº** 800124-029-PID-0021-029	**Rev.** 1
PID Modification Sheet:	**YES** ☐	**N/A** ☑	**Nº**	**Rev.**
Equipment Vendor Dwg. :	**YES** ☐	**N/A** ☑	**Nº**	**Rev.**
Instrument Dwg. :	**YES** ☐	**N/A** ☑	**Nº**	**Rev.**
Project By-Pass [4]:	**YES** ☐	**N/A** ☑	**Nº**	**Rev.**
SPO Approved Isometric:	**YES** ☐	**N/A** ☑	**Rev.**	**Extraction Date:**
SIT Approved Isometric:	**YES** ☐	**N/A** ☑	**Rev.**	**Extraction Date:**

TechnipFMC – Butterfly Project

HOLDS

Nº	SHORT DESCRIPTION	RESOLVED (✓)

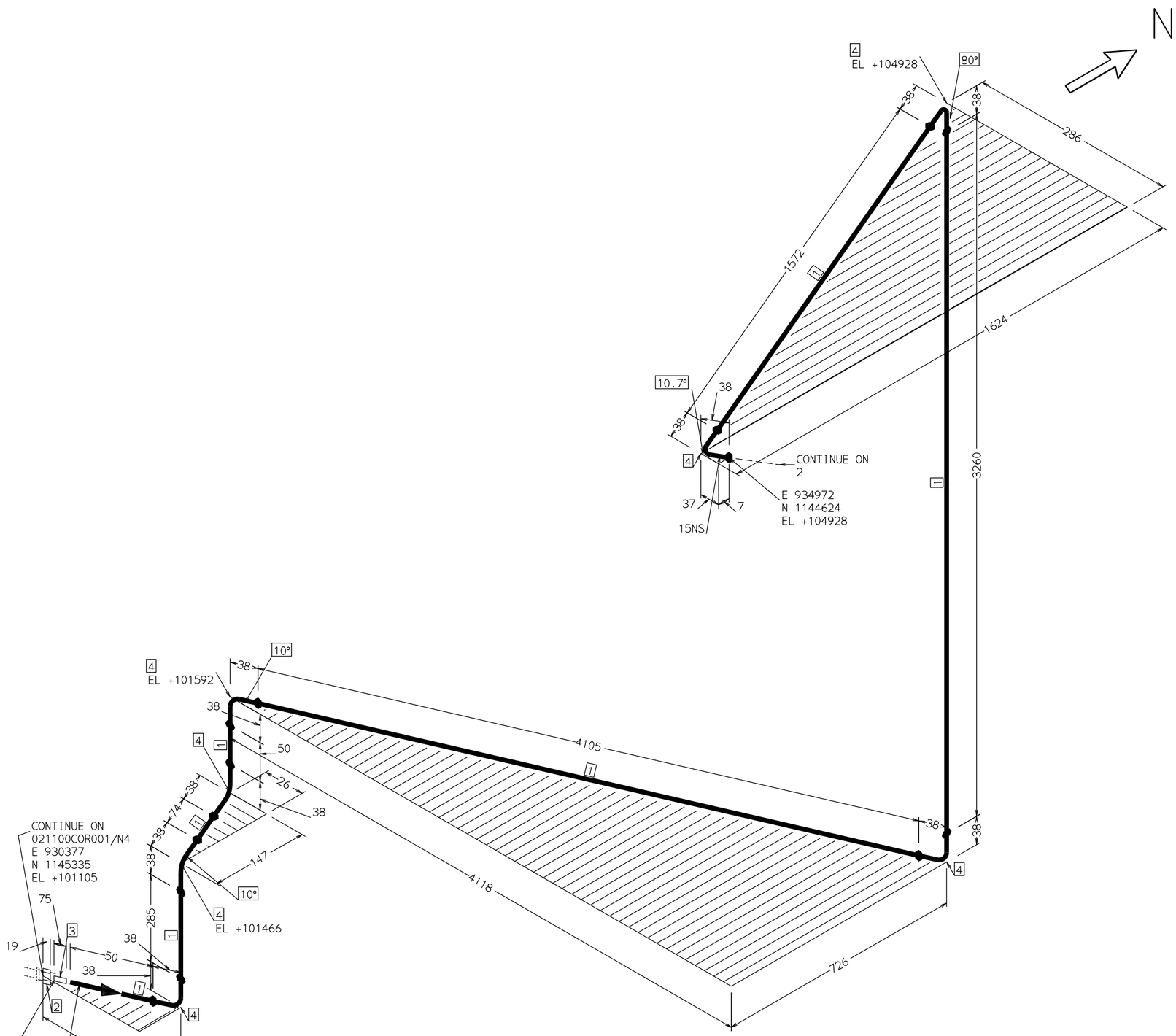
A VERIFICAR / *TO BE CHECKED* ***Revision By : (D) Designer / (LDG) Design Leader / (ST) Stress Specialist / (LST) Stress Leader / (SP) Supports Specialist / (LSP) Supports leader / (M) Materials / (SL) Spooler / (CHK) Issuer / (L) Discipline Lead***		**IFC**	**REV 0** ☑	**REV 1** ☐	**REV 2** ☐
		✓	✗ [1]	1st-Chk [2]	2nd-Chk [3]
Revision By : (D) Designer / (LDG) Design Leader			**By: D**	**By: LDG**	
Iso Information	Nº de línea según PID y lista de líneas / *Line Nbr. according to PID and line list*	✓		✓	
	Datos de la línea según lista de líneas / *Line data according to line list*	✓		✓	
	Clase de tubería según PID y Lista de Líneas / *Piping class according to PID and Line List*	✓		✓	
	Vinculo E3D con Diagrams (Process Unit, Temp Operación, Numeracion TODAS válvulas manuales) / Link between E3D and Diagrams (Process Unit, Op Temp, ALL manual valves Tagged)	✓		✓	
	Diámetro de la línea indicado en número de línea en el cajetin / *Line diameter indicated in the line number in the title block*	✓		✓	
Equipment	Equipo modelado según plano Vendor válido para generar isométrica IFC / *Equipment modelled according Vendor drawing valid for Isometric IFC generation* *Código / Code: 2* ☐ *3* ☐	✓			
	Nombre de tubuladuras según PID y plano Vendor / *Name of nozzle according to PID and Vendor drawing*	✓			
	Rating y diámetro de tubuladuras según plano Vendor / *Rating and diameter of nozzles according to vendor drawing*	✓			
	Posición y elevación de tubuladuras según plano Vendor / *Position and elevation of nozzles according to Vendor drawing*	✓			
Revision By : (D) Designer / (LDG) Design Leader			**By: D**	**By: LDG**	
Line Design	Línea sin colisión (verificación incluyendo la nube de puntos) / *Line is clash free (checked including points cloud)*	✓		✓	
	Comentarios de SPO a líneas críticas recibidos e implementados antes de extracción final para emisión / *Process comments to critical lines received and implemented before final extraction for issuance*	✓			
	Verificación contra P&ID y Lista de Lineas / Check Iso vs P&ID and Line List : Correcta referencia de la continuidad de la isométrica en líneas nuevas, líneas existentes u otra hoja de la isométrica en los extremos de línea y sus ramales, incluyendo elevaciones y coordenadas / *Correct continuity isometric reference to new lines, existing lines or other isometric sheet in each end of the line and its branches including elevations and coordinates*	✓		✓	
	Verificación contra P&ID / Check Iso vs P&ID : Elementos en línea incluidos, secuencia de picajes, pendiente, sentido de flujo, numeración de instrumentos, cambios de especificación, cumplimiento de notas / *in-line components included, branch sequence, slope, flow direction, instrument numbering, pipe class breaks, notes accomplishment*	✓		✓	
	Verificación contra P&ID / Check Iso vs P&ID : Longitudes requeridas de entrada y/o salida a equipos, distancias y/o elevaciones mínimas o máximas requeridas, formación de condensados / *Required inlet and/or outlet lengths to equipments, minimum or maximum distances and/or elevations, condensate generation*	✓		✓	
	Comentarios de SIT a recibidos e implementados antes de extracción final para emisión / *Instrumentation comments received and implemented before final extraction for issuance*	✓			
	Verificación contra Planos de Vendor o Hook-up Instrumentacion / Check Iso vs Instrument Vendor Drawings or Hook-up : Tamaño de las válvulas de control y de seguridad, instalación de acuerdo a hook-up / *Size of control valves and safety valves, instrument installation according to hook-up*	✓		✓	
	Picajes según tabla de picajes correspondiente / *Branch configuration according to correspondent branch table*	✓	✓		
	Venteos y drenajes de Procesos según requerimientos de PIDs y de puntos altos y bajos para prueba hidrostática y modelados según "assembly" correspondiente / Process v*ents and drains according PID requirements and high and low points for hydrostatic test and modelled according proper assembly*		✓	✓	
	Verificación de distancia mínima entre soldaduras / *Check minimum distance between welds*		✓	✓	
	Notas explicativas adicionales incorporadas / *Additional clarification notes added*	✓	✓		
Revision By : (ST) Stress Specialist / (LST) Stress Leader			**By: ST**	**By: LST**	
Stress	El cálculo de stress disponible no está pendiente de revisión en curso / *Available stress calculation is not awaiting for revision*				
	Los requisitos según el cálculo de stress están incorporados (si son aplicables) / *Stress calculation requirements have been added (if applicable)*				
Revision By : (SP) Supports Specialist / (LSP) Supports leader			**By: SP**	**By: LSP**	
Supports	La línea está soportada por completo y la lista de soportes está actualizada en el exel extraído del E3D / *Line is completely supported and support list updated according file from E3D*				
	Concepto de soporte y separación máxima entre soportes / *Support concept and support spans*				
	Requerimientos de soportes estan de acuerdo al cálculo de stress y ajustados con el especialista de Stress / *Support requirements according to stress calculation note are included and adjusted jointly with stress specialist*				
	Numeración correcta de los soportes / *Supports correctly numbered*				
	Código de soportes correctamente indicados (STD - SPC - COM - MRS - PRF) / *Support code correctly indicated (STD - SPC - COM - MRS - PRF)*				
	Marcado de elementos soldados de los soportes en Iso Spool preliminar correspondiente / *Mark-up of welded supports components in the correspondent preliminary Iso Spool*	N/A	----------	----------	----------
Revision By : (M) Materials			**By: M**		
Materials	La Linea pertence a alguna o varias categorias de Criticidad. La Linea está listada en la Lista de Lineas Críticas de Materiales. Sus isometricas requieren Verificacion exahustiva / The Line belongs to some or several categories of Criticality. The Line is listed in the Critical Material Lines List. The isometrics require exahustive verification	N/A			
	Todos los materiales están identificados en la isométrica y se encuentran listados en el listado de materiales / *All materials are identified in the isometric and are listed in the BOM*		✓		
	Añadidos elementos especiales de tubería en Línea de acuerdo a PIDs última revisión y lista de especiales de tubería (Verificar en adicional correcta Numeración, criterios de Posicionamiento en diseño si aplican) / Inclusion of special piping elements in line according to PIDs latest review and Special Piping Material List (Verify identification number, piping design location criteria if applicable)	N/A			
	Nº de identificación de válvulas manuales (según PID)/ *Identification number of manual valve (according to PID)*	N/A			
	Todas las juntas y pernos colocadas según tipo requerido (RF, FF, Bolts, Machine Bolts) / *All gaskets and bolts placed according required type (RF, FF, Bolts, Machine Bolts)*	N/A			
	Extensión de volante de válvula modelada y reflejada en lista de materiales de la isométrica / *Valves axis extension modelled and reflected in Isometric BOM*	N/A			
	Válvulas colocadas según PID y Piping Class / *Valves placed according PID an Piping Class*	N/A			
Revision By : (CHK) Issuer			**By: CHK**		
			1st-Chk [2]		2nd-Chk [3]
			✓	✗	✓	✗
Final Check	La isométrica verificada por Procesos (SPO) se corresponde a la última revisión / *The isometric verified by Process (SPO) corresponds to its last revision*	✓				
	La isométrica verificada por Instrumentación (SIT) se corresponde a la última revisión / *The isometric verified by Instrumentation (SIT) corresponds to its last revision*	✓				
	Las notas a mano están incorporadas en las isométricas / *The hand-made annotation is included*		✓			
	La revisión de los documentos para la verificación siguen siendo las actuales / *Current revision of documents for checking are still the latest available*		✓			
	El número de revisión y la fecha son correctos / *The revision number and the date are correct*		✓			
	Todos los comentarios se han revisado para se incluidos o descartados / *All comments have been checked to be included or discarded*		✓			
	Holds resueltos o en su defecto By-Pass aprobado / *Holds resolved or instead By-Pass approved*		✓			

SIGNATURES (Name and date)

DESIGN LEADER (LD)	REVIEWED By Laura Parra at 3:51 pm, Nov 12, 2020	**SUPPORTS LEADER (LSP)**		**ISSUER (CHK)**	REVIEWED By oscar at 9:22 am, Nov 13, 2020
STRESS LEADER (LST)		**MATERIALS (M)**	REVIEWED By Jose G. Suarez at 6:36 pm, Nov 12, 2020	**DISCIPLINE LEAD (L)**	

NOTES:

[1] If "X" marqued, a "HOLD" note should be included in the Holds area for justification.
[2] 1st checking round: Checker to place a (✓) or a (✗) confirming or not Designer verification. A (✓) or a (✗) should also be placed to confirm or reject any (✗) mark placed by the Designer confirming or not the implicit HOLD.
[3] 2nd checking round: Checker to place a (✓) to validate the points that were not confirmed in the 1st round and were corrected by respective Specialist.
[4] If an isometric with HOLD is approved by IFC Leader for issuance, the correspondent By-Pass should be attached.



MATERIAL LIST - FABRICATION

PT NO	N.S. (MM)	DESCRIPTION	IDENT	QTY
1	15	Pipes (Length), EN 10220, PE, EFW + 100% RT, -,/2MM EN 10217-7 Gr.X2CrNi19-11,	C1KV24XG	9.4M
2	15	Union, Prj Std, BSPPM End/BSPPF End, 40 Bar, 3-piece union fitting/ EN 10216-5 Gr.X2CrNi19-11,	C46GHUCW	1
3	15	Nip, Mnf Std, PE/BSPTM End, Seamless, L = 75mm, -,/2.9MM EN 10216-5 Gr.X2CrNi19-11,	C3PDPWWA	1
4	15	90Å˚ Elb LR, EN 10253-4 Type A, BW Ends, Welded + 100% RT, M.3D, Serie 4,/2MM EN 10253-4 Gr.X2CrNi19-11,	C1P0J0PF	7

PIPING DPT.
ISSUER
CHECKED

REV	DATE	DWN	CHK	APP	DESCRIPTION
0	12/11/20	APN	LPD	OMC	IFC-ISSUED FOR CONSTRUCTION

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NOTES:

Check with existing structure on site

For pipes < dn50 supporting to be studied and defined by construction contractor before line fabrication and installation.

REFERENCES / DOCUMENTS

LINE LIST	30201-042-001000-001
ISOMETRIC INDEX	30303-042-022000-200
PIPING SUPPORT	30207-042-021200-001

SPEC 10SS21

SYMBOLOGY

Insulated Pipe

Insulated and Traced Pipe

PROJECT DESCRIPTION/LOCATION

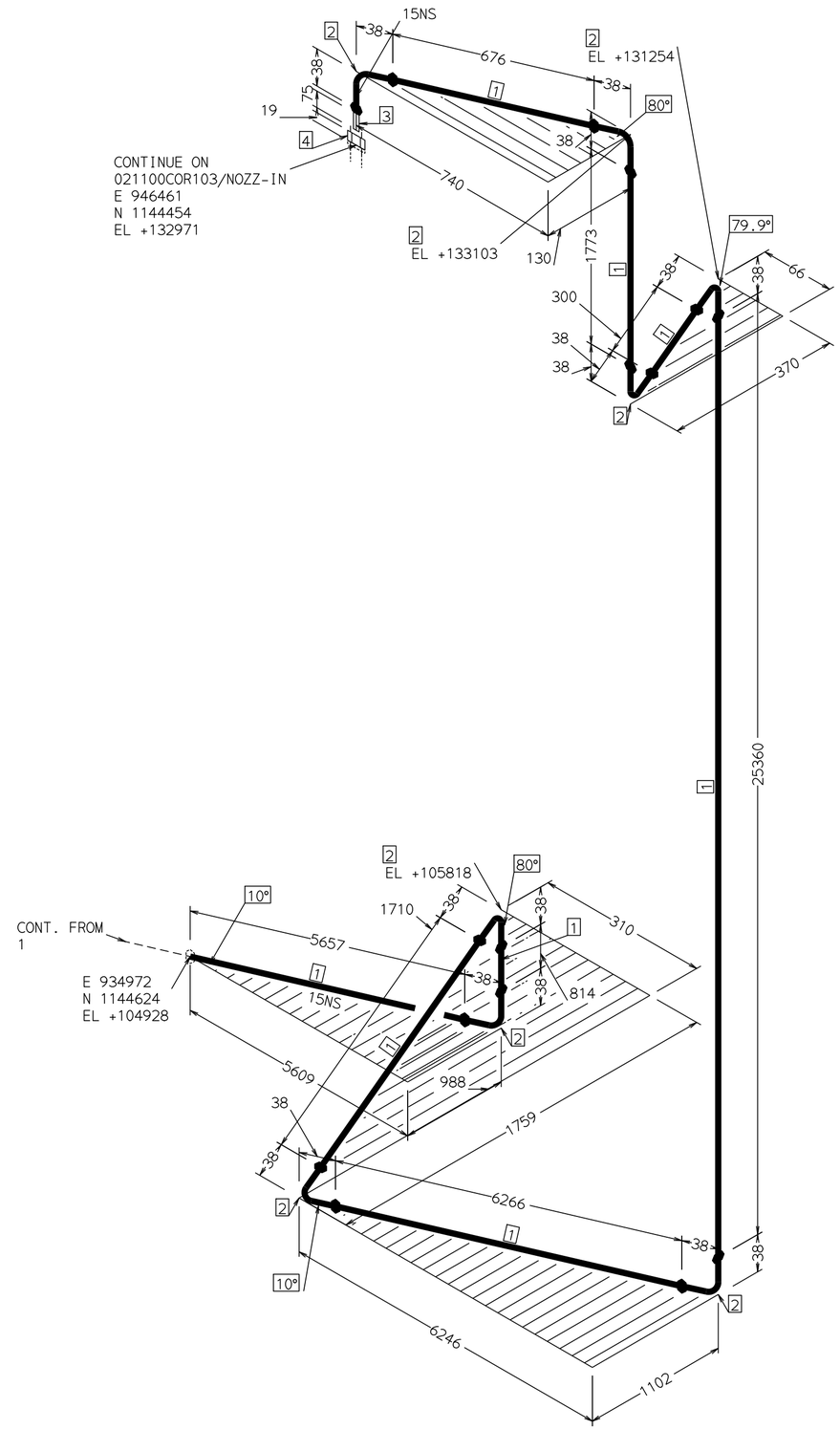
BUTTERFLY PROJECT/KREFELD

TechnipFMC

CargIII

PROCESS UNIT	DESIGN AREA	LINE NUMBER	TRAIN	SHEET	REV
029	021A1	021908-15-IA-10SS21-0036	01	1 OF 2	0

EXTRACTION DAY 12 NOV 2020 E3D NAME021A1-021908-15-IA-10SS21-0036_01



N

MATERIAL LIST - FABRICATION

PT NO	N.S. (MM)	DESCRIPTION	IDENT	QTY
1	15	Pipes (Length), EN 10220, PE, EFW + 100% RT, -,/2MM EN 10217-7 Gr.X2CrNi19-11,	C1KV24XG	42.6M
2	15	90Â° Elb LR, EN 10253-4 Type A, BW Ends, Welded + 100% RT, M.3D, Serie 4,/2MM EN 10253-4 Gr.X2CrNi19-11,	C1P0J0PF	8
3	15	Nip, Mnf Std, PE/BSPTM End, Seamless, L = 75mm, -,/2.9MM EN 10216-5 Gr.X2CrNi19-11,	C3PDPWWA	1
4	15	Union, Prj Std, BSPPM End/BSPPF End, 40 Bar, 3-piece union fitting/ EN 10216-5 Gr.X2CrNi19-11,	C46GHUCW	1

PIPING DPT.
ISSUER
CHECKED

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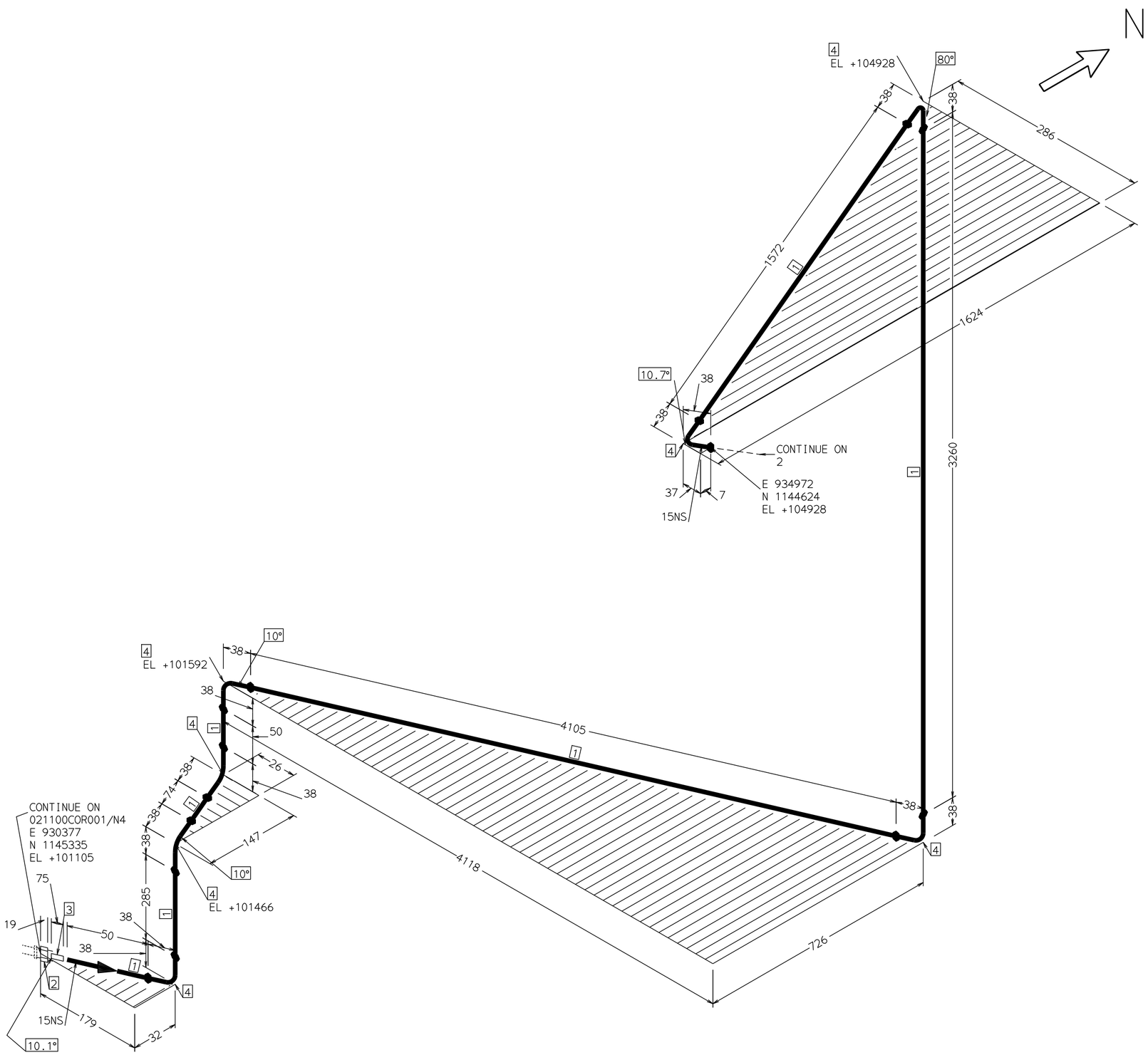

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PIPING DPT.
MATERIALS
CHECKED
By Jose G. Suarez at 6:36 pm, Nov 12, 2020

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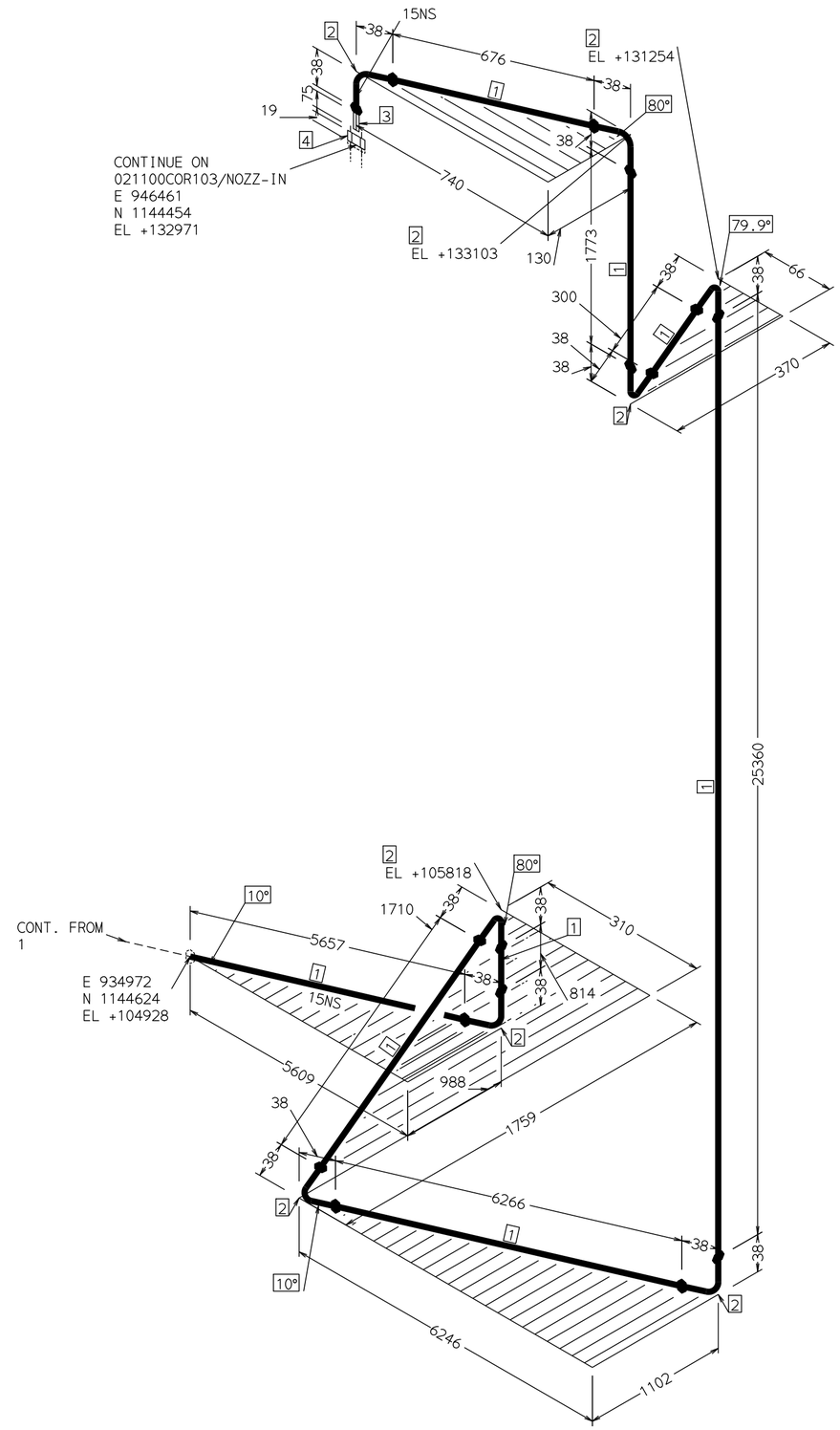

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MATERIALS
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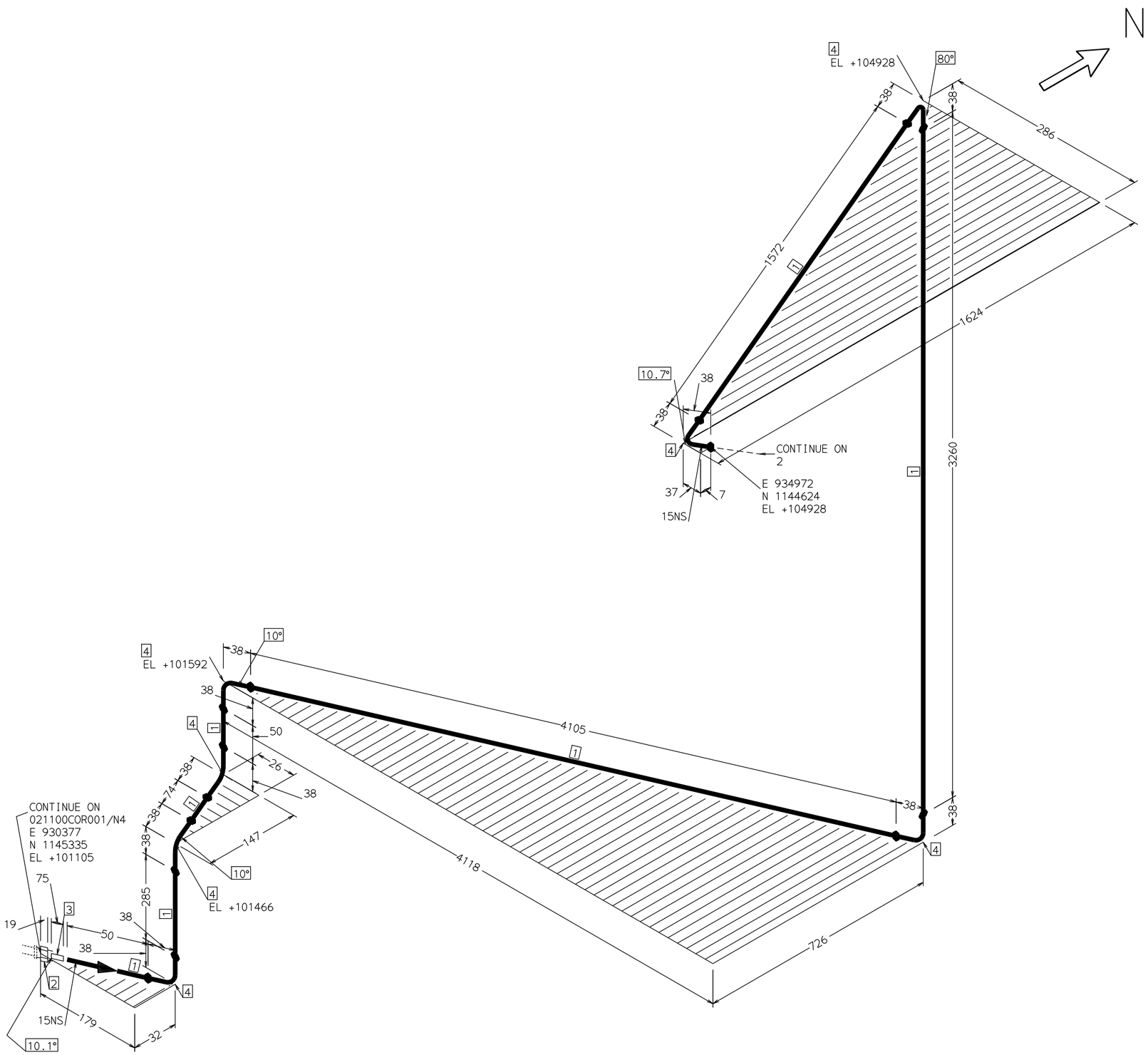

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PIPING DPT.
DESIGNED
By apereznune at 10:29 am, Nov 12, 2020

PIPING DPT.
DESIGN
CHECKED
By Laura Parra at 3:51 pm, Nov 12, 2020

REV	DATE	DWN	CHK	APP	DESCRIPTION
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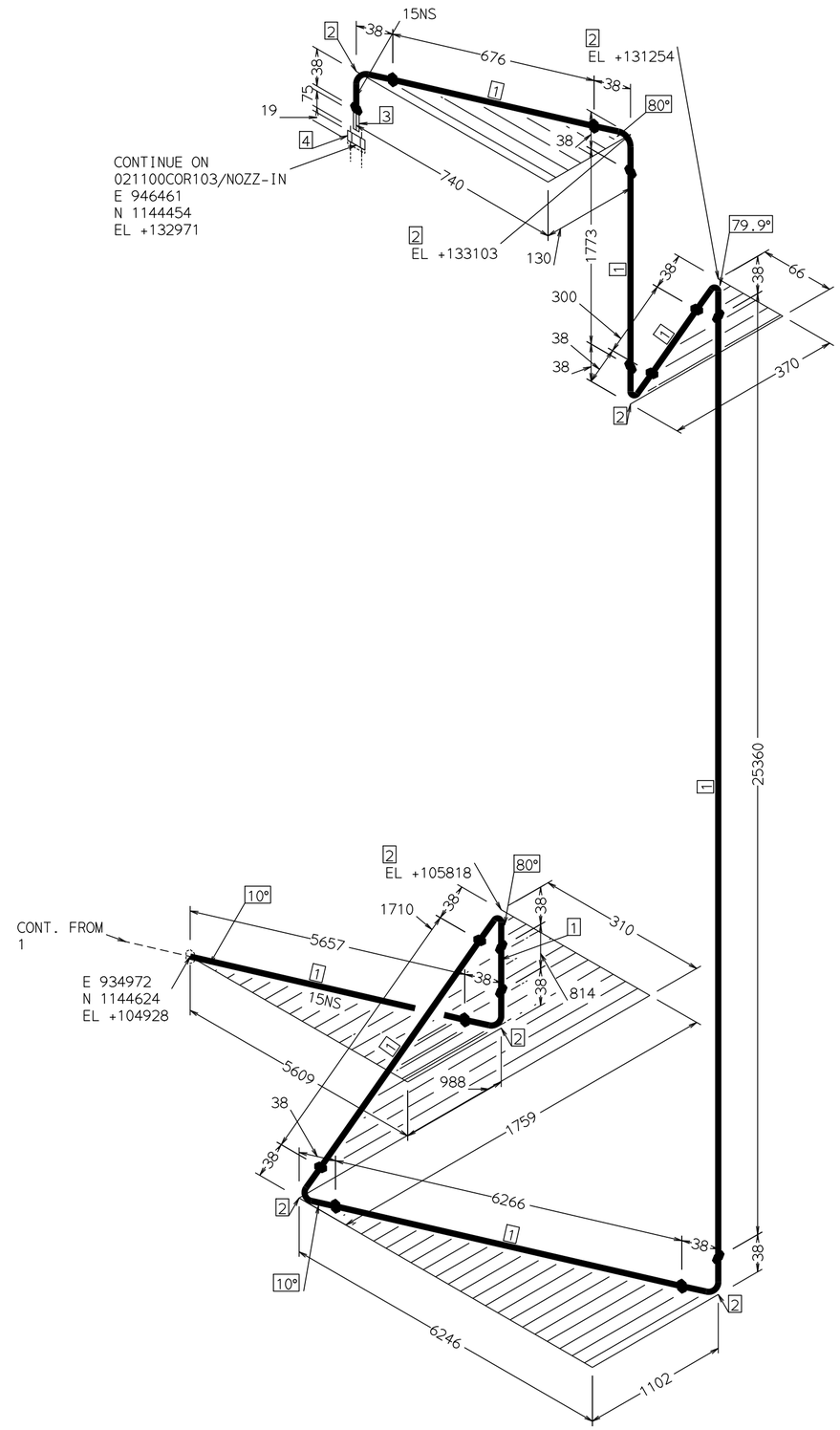

N

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PIPING DPT.
DESIGNED
By apereznune at 10:29 am, Nov 12, 2020

PIPING DPT.
DESIGN CHECKED
By Laura Parra at 3:51 pm, Nov 12, 2020

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For pipes < dn50 supporting to be studied and defined by construction contractor before line fabrication and installation.

REFERENCES / DOCUMENTS

LINE LIST	30201-042-001000-001
ISOMETRIC INDEX	30303-042-022000-200
PIPING SUPPORT	30207-042-021200-001

SPEC 10SS21

SYMBOLOGY

Insulated Pipe

Insulated and Traced Pipe

PROJECT DESCRIPTION/LOCATION

BUTTERFLY PROJECT/KREFELD

TechnipFMC

CargiII

PROCESS UNIT	DESIGN AREA	LINE NUMBER	TRAIN	SHEET	REV
029	021A1	021908-15-IA-10SS21-0036	01	2 OF 2	0

EXTRACTION DAY 12 NOV 2020 E3D NAME021A1-021908-15-IA-10SS21-0036_01