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- 1. MILD STEEL SHALL BE GRADE S275 TO BS EN 10025:1993 UNLESS NOTED OTHERWISE.
- 2. STAINLESS STEEL SHALL BE GRADE 1.4404 TO BS EN 10088-2 :1995 UNLESS NOTED OTHERWISE.
- 3. ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE.
- 4. ALL BOLTS AND NUTS ARE TO BE GRADE 8.8 STEEL TO BS EN ISO 898-1:2013 AND BS EN ISO 898-2:2012. BOLTS AND NUTS <u>NOT</u> TO BE GALVANISED, JUST MILD STEEL
- 5. ALL WELDS ARE TO BE 6mm FILLET WELD ALL ROUND U.N.O.
- 6. GROUT TO BE CONBEXTRA AT GROUT.
- 7. COUPLING REQUIRED TO BE VICTAULIC NON-RESTRAINED FLEXIBLE COUPLING STYLE 230, NOMINAL PIPE SIZE 1950mm WITH ISOPRENE RUBBER O-RING GASKETS.
- 8. REFER ALSO TO PERMANENT WORKS DRAWINGS: 4603-FLOJV-CHEEF-542-CW-DR-260XXX AND 261XXX SERIES.
- PIPE SECTIONS TO BE LIFTED DOWN INTO THE SEWER WITH LIFTING BEAM AND CHAINS. EYE BOLTS FOR LIFTING TO BE M24 LONG SHANK COLLAR EYE BOLTS TO BS 4278. EYE BOLTS ARE INSERTED INTO PURPOSE MADE HOLES ALONG THE SOFFIT FOR ALL LINER SEGMENTS (SEE DETAIL Y ON DRAWING 4440-FLOJV-CHEEF-240-UW-DA-400013).
 - ★ = DIMENSIONS TO BE CHECKED ON SITE

SAFETY HEALTH AND

ENVIRONMENTAL

REFER TO THE CDM DESIGNER'S RISK ASSESSMENT 4428-FLOJV-CHEEF-530-UW-HI-100006

IN ADDITION TO THE RISKS NORMALLY ASSOCIATED WITH THE WORK DETAILED ON THIS DRAWING, NOTE:-

CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE AND DEEP EXCAVATION.

CONSTRUCTION

CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE.

OPERATION & MAINTENANCE

CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER DURING ANY INSPECTION.

Fit for Construction

	Revision History								
Rev	Description	Dsgnr	Chkd	Appd	Date				
P01	ISSUED FOR ACCEPTANCE	PLIG	RJON	MSIM	17/05/19				
P02	BEAM MK 01 & 07, GRIDLINES AMENDED	RWIL	PLAN	MSIM	28/08/19				
	Current Revision								
C01	Issued for Construction (Identical to Revision P02)	RWIL	PLAN	MSIM	28/08/19				

Contractor

Approval: CMIT

C01

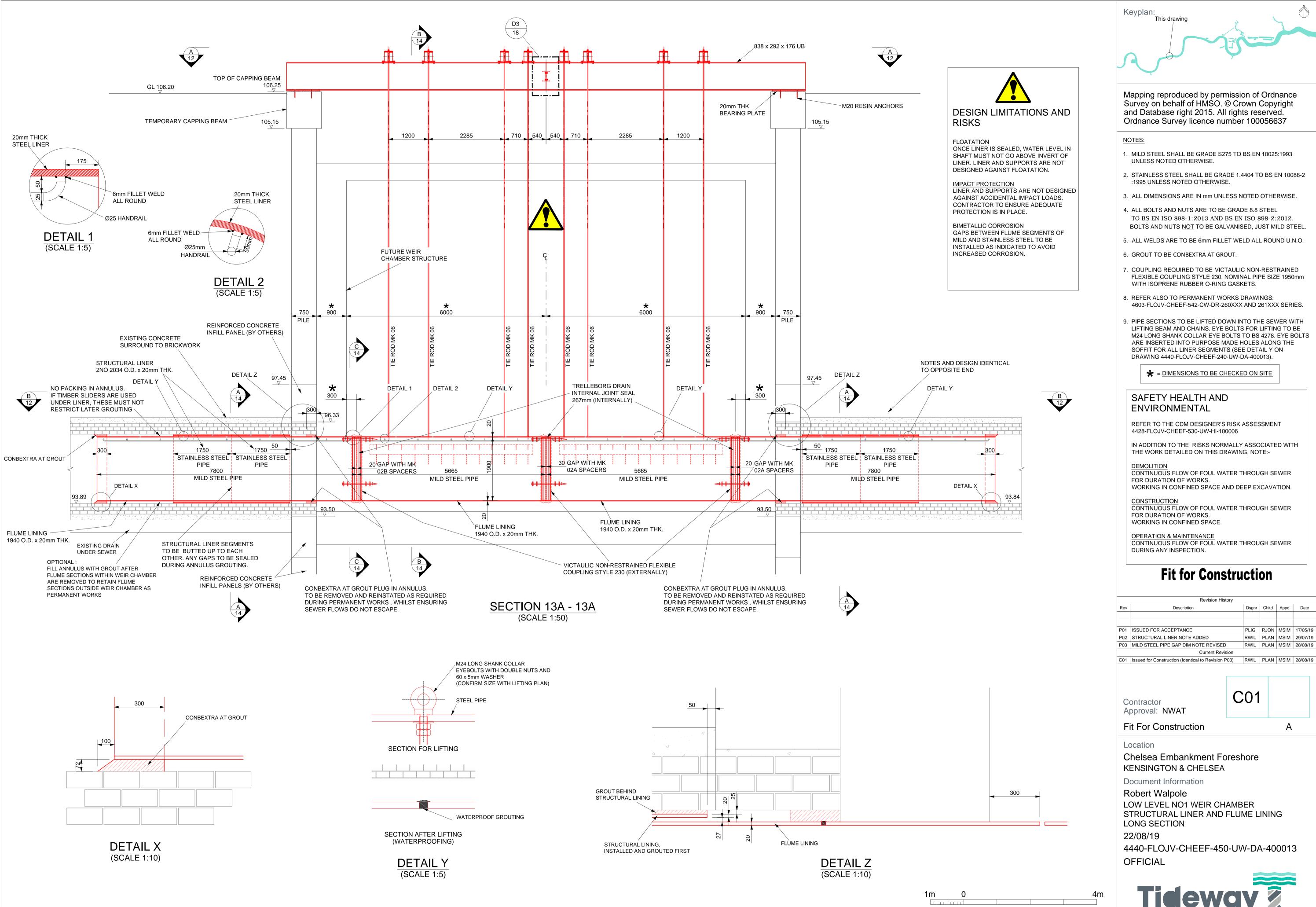
Chelsea Embankment Foreshore KENSINGTON & CHELSEA

Robert Walpole

LOW LEVEL NO1 WEIR CHAMBER STRUCTURAL LINER AND FLUME LINING

4440-FLOJV-CHEEF-450-UW-DA-400012







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NOTES:

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★ = DIMENSIONS TO BE CHECKED ON SITE

SAFETY HEALTH AND **ENVIRONMENTAL**

REFER TO THE CDM DESIGNER'S RISK ASSESSMENT 4428-FLOJV-CHEEF-530-UW-HI-100006

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CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE AND DEEP EXCAVATION.

CONSTRUCTION CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER

FOR DURATION OF WORKS. WORKING IN CONFINED SPACE.

OPERATION & MAINTENANCE CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER DURING ANY INSPECTION.

Fit for Construction

P01 ISSUED FOR ACCEPTANCE PLIG RJON MSIM 17/05/19 P02 STRUCTURAL LINER NOTE ADDED RWIL PLAN MSIM 29/07/19 P03 MILD STEEL PIPE GAP DIM NOTE REVISED RWIL PLAN MSIM 28/08/19 **Current Revision**

Contractor Approval: NWAT

Fit For Construction

C01

Location

Chelsea Embankment Foreshore **KENSINGTON & CHELSEA**

Document Information

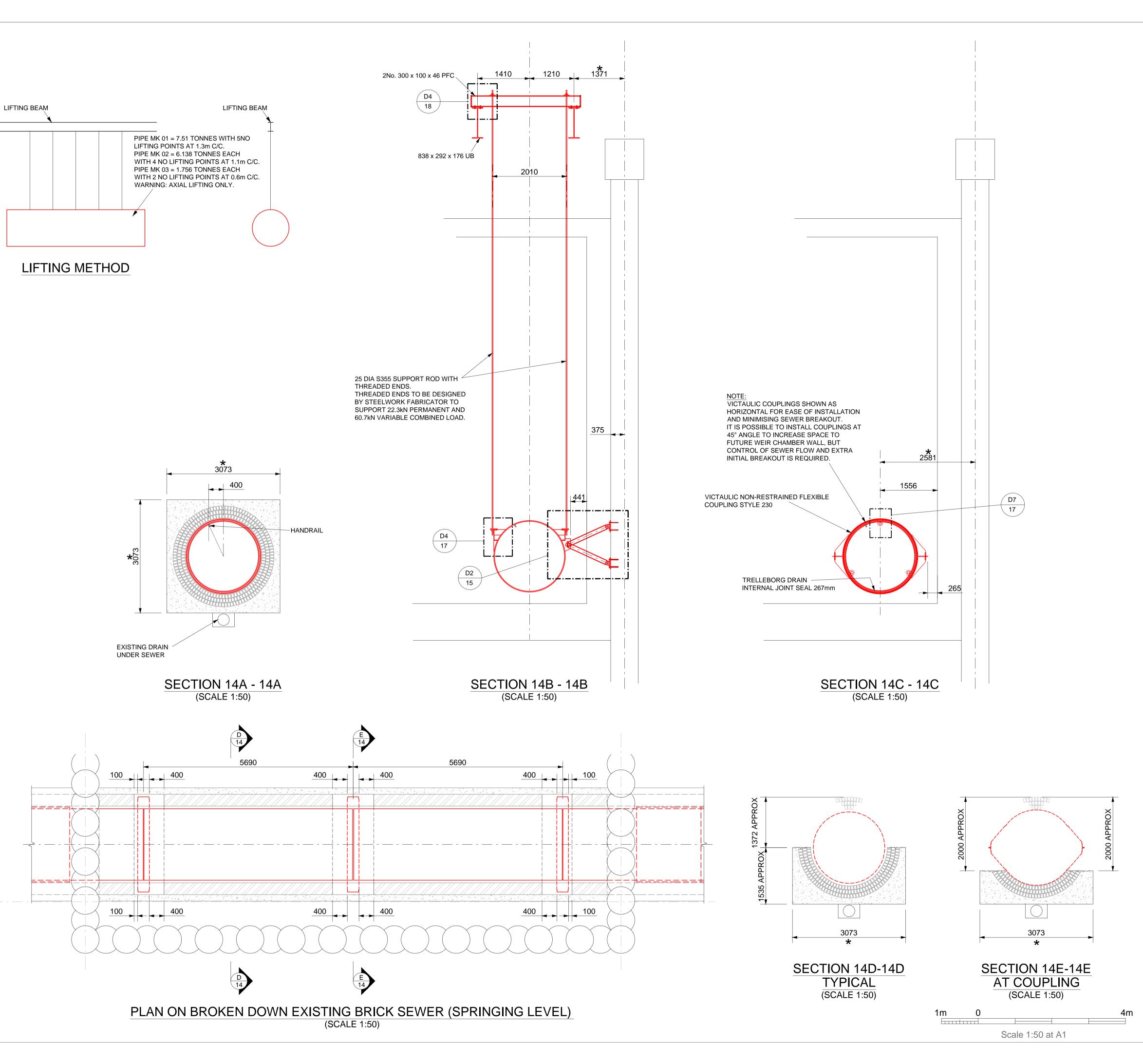
Robert Walpole LOW LEVEL NO1 WEIR CHAMBER STRUCTURAL LINER AND FLUME LINING LONG SECTION

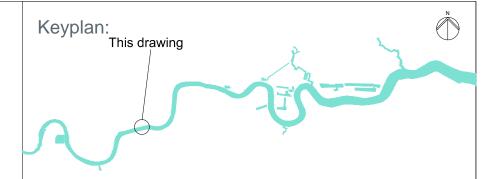
22/08/19

Scale 1:50 at A1

4440-FLOJV-CHEEF-450-UW-DA-400013 OFFICIAL







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SAFETY HEALTH AND ENVIRONMENTAL

REFER TO THE CDM DESIGNER'S RISK ASSESSMENT 4428-FLOJV-CHEEF-530-UW-HI-100006

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CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE AND DEEP EXCAVATION.

CONSTRUCTION

CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE.

OPERATION & MAINTENANCE CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER DURING ANY INSPECTION.

Fit for Construction

	Revision I	History			
Rev	Description	Dsgnr	Chkd	Appd	Date
P01	ISSUED FOR ACCEPTANCE	PLIG	RJON	MSIM	17/05/
P02	MINOR REVISIONS	RWIL	PLAN	MSIM	28/08/
P02	MINOR REVISIONS Current Re		PLAN	MSIM	2

C01 Issued for Construction (Identical to Revision P02) RWIL PLAN MSIM 28/08/19

Contractor

Approval: CMIT

Fit For Construction

C01

Location

Chelsea Embankment Foreshore **KENSINGTON & CHELSEA**

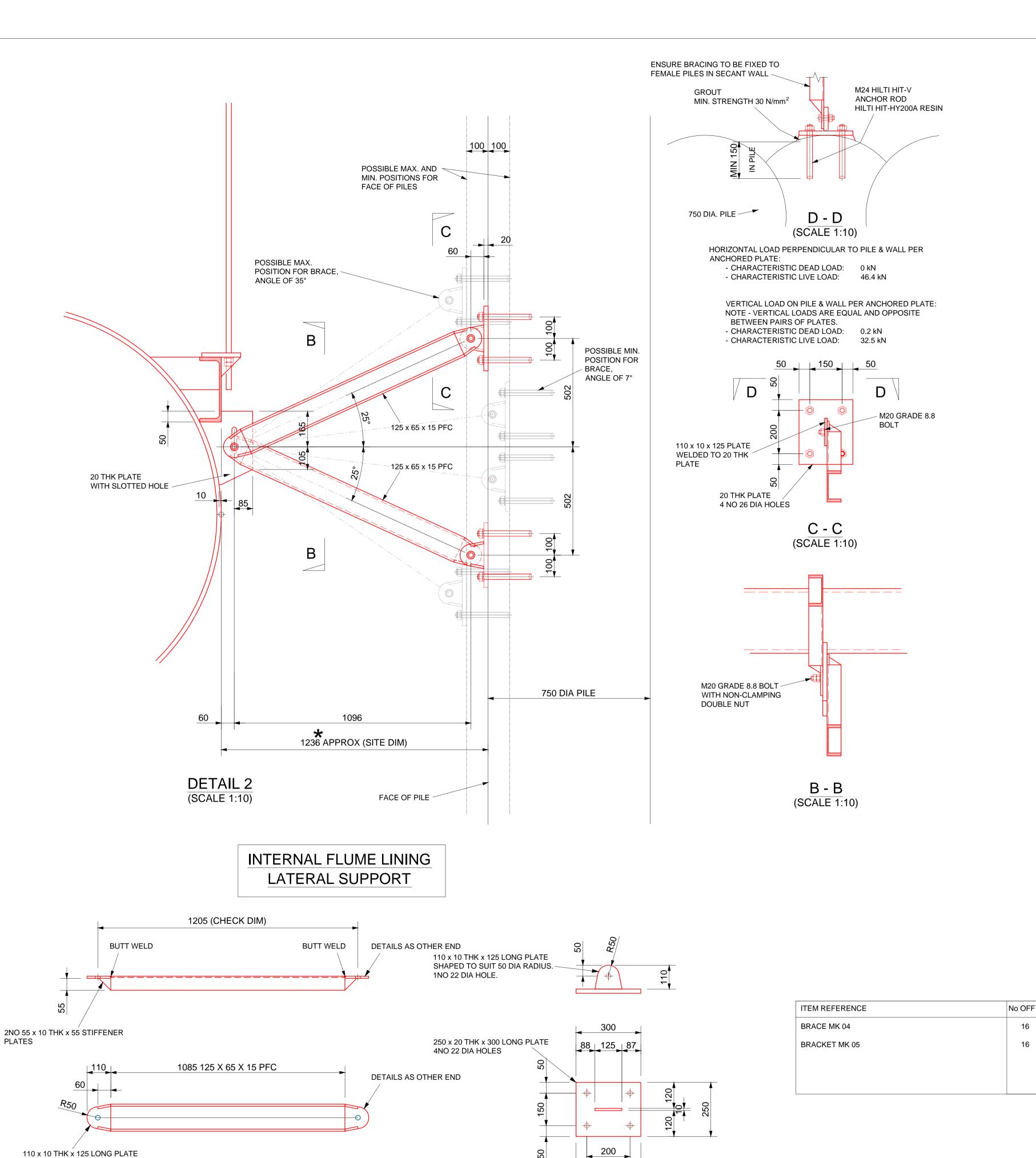
Document Information

Robert Walpole LOW LEVEL NO1 WEIR CHAMBER STRUCTURAL LINER AND FLUME LINING SECTIONS

15/07/19

4440-FLOJV-CHEEF-450-UW-DA-400014 OFFICIAL





BRACKET MK 05

(SCALE 1:10)

WEIGHT: 10kg

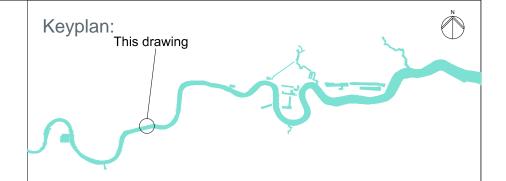
SHAPED TO SUIT 50 DIA RADIUS.

BRACE MK 04

(SCALE 1:10)

WEIGHT: 20kg

1NO 22 DIA HOLE



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CONSTRUCTION

CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE.

OPERATION & MAINTENANCE CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER DURING ANY INSPECTION.

Fit for Construction

P01 ISSUED FOR ACCEPTANCE PLIG RJON MSIM 17/05/19 P02 ISSUED FOR ACCEPTANCE P03 | ITEM REFERENCE TABLE AMENDED **Current Revision**

C01 | Issued for Construction (Identical to Revision P03) | RWIL | PLAN | MSIM | 28/08/19

C01

Approval: CMIT Fit For Construction

Contractor

Location

Chelsea Embankment Foreshore **KENSINGTON & CHELSEA**

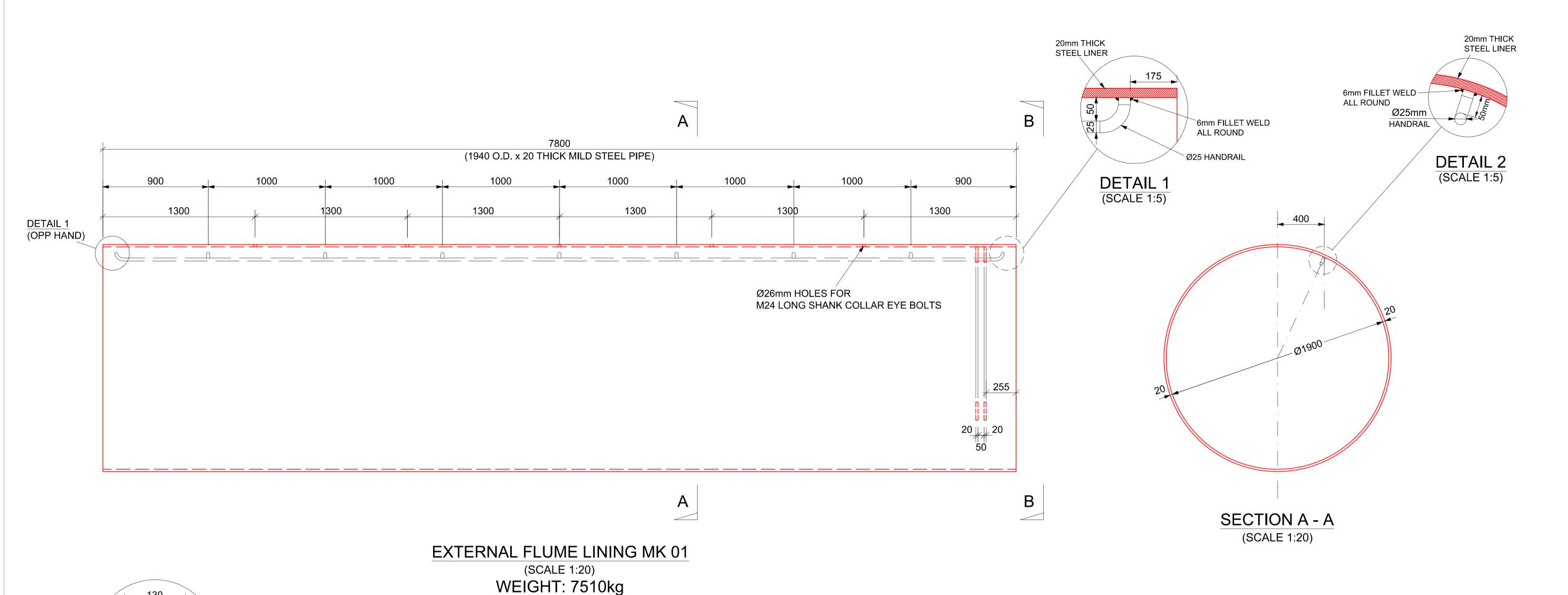
Document Information

Robert Walpole LOW LEVEL NO1 WEIR CHAMBER STRUCTURAL LINER AND FLUME LINING SECTIONS AND DETAILS

16/07/19

4440-FLOJV-CHEEF-450-UW-DA-400015 OFFICIAL





EXTERNAL FLUME LINING

MILD STEEL

130 x 20 PL x 130 LONG

SECTION B - B

(SCALE 1:20)

- FW ALL ROUND 1NO 53 DIA HOLE

DETAIL 3

(SCALE 1:5)



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	ITEM REFERENCE	No OF
	STEEL PIPE ASSEMBLY MK 01	2

	Revision History						
Rev	Description	Dsgnr	Chkd	Appd	Date		
P01	ISSUED FOR ACCEPTANCE	PLIG	RJON	MSIM	17/05/1		
P02	FLUME LINING CHANGED TO MILD STEEL	RWIL	PLAN	MSIM	28/08/1		
	Current Revision						
C01	Issued for Construction (Identical to Revision P02)	RWIL	PLAN	MSIM	28/08/1		

Contractor

Approval: CMIT Fit For Construction

C01

Location

Chelsea Embankment Foreshore KENSINGTON & CHELSEA

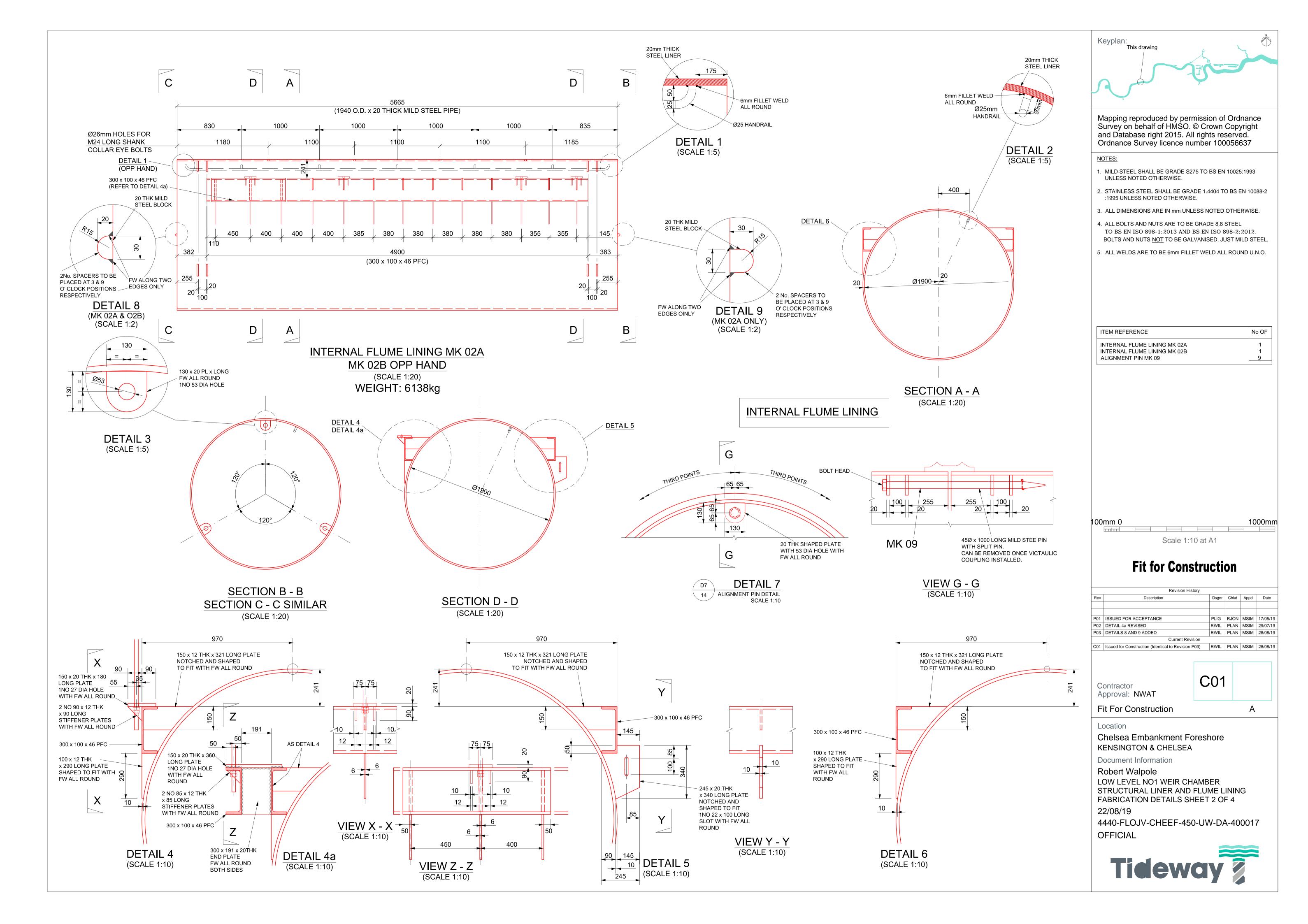
Document Information Robert Walpole LOW LEVEL NO1 WEIR CHAMBER STRUCTURAL LINER AND FLUME LINING FABRICATION DETAILS SHEET 1 OF 4

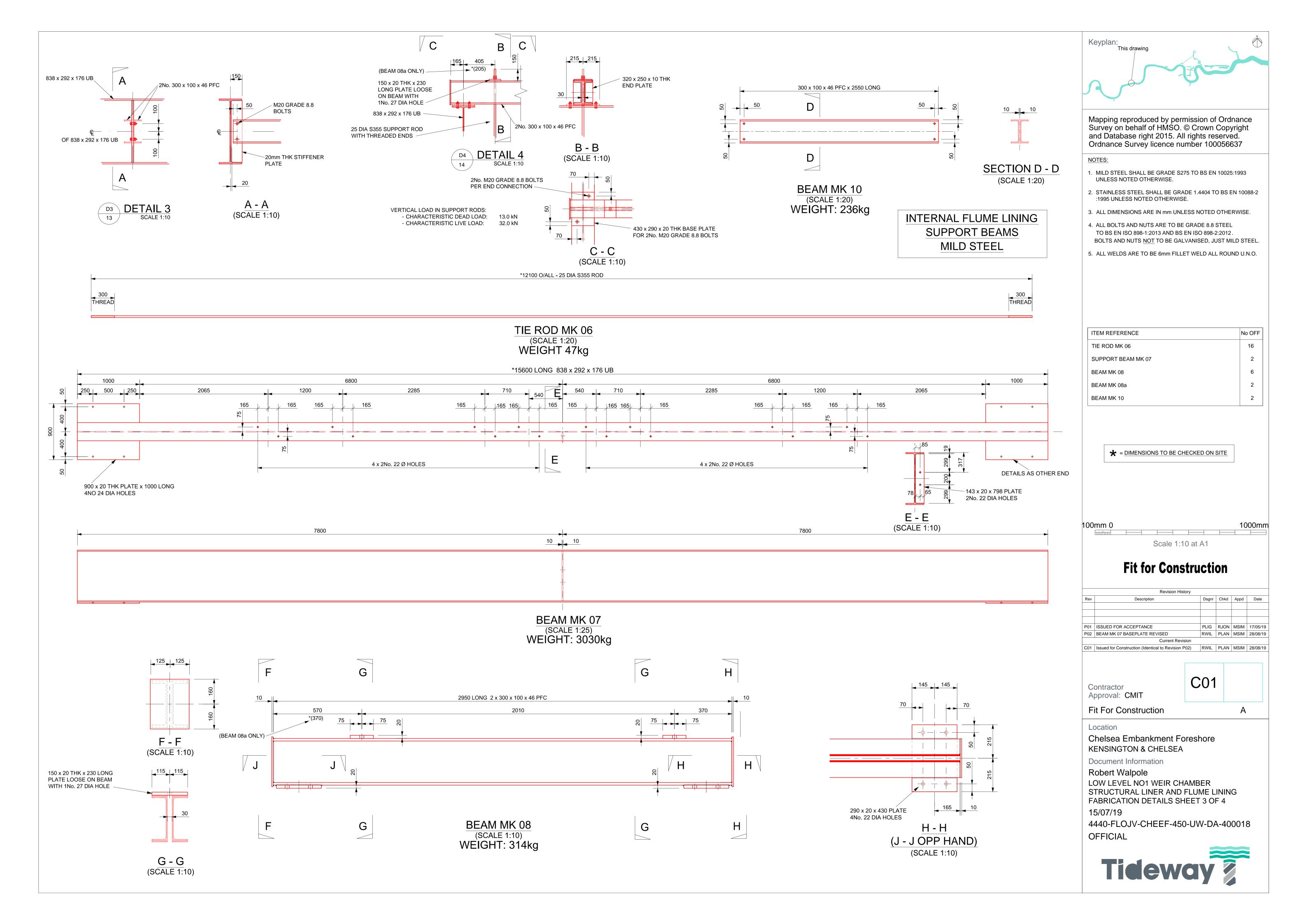
15/07/19 4440-FLOJV-CHEEF-450-UW-DA-400016 OFFICIAL

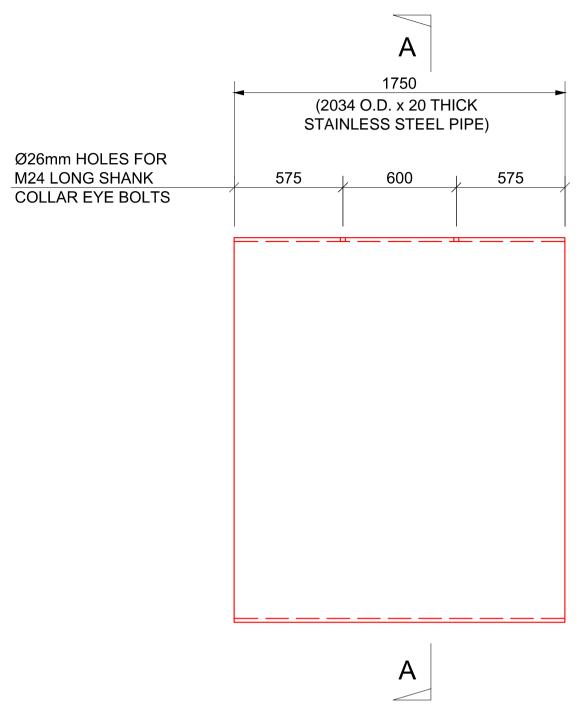




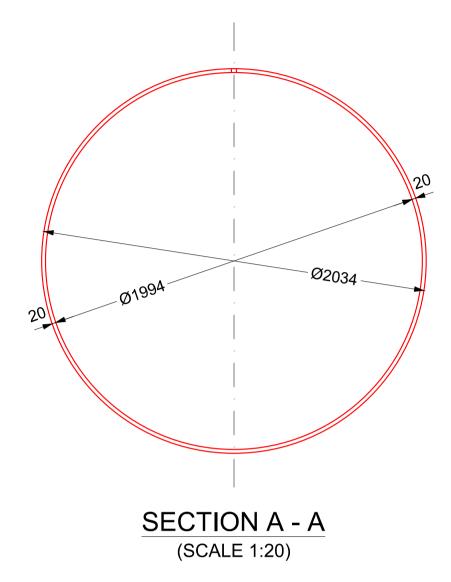
Scale 1:20 at A1



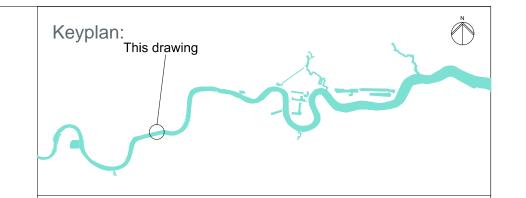




STRUCTURAL LINER MK 03
(SCALE 1:20)
WEIGHT: 1756kg
(4No. OFF)



STRUCTURAL LINER STAINLESS STEEL



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Fit for Construction

	Revision History				
Rev	Description	Dsgnr	Chkd	Appd	Date
P01	ISSUED FOR ACCEPTANCE	MKOV	RJON	RJON	17/05/19
P02	NOTE ADDED	RWIL	PLAN	MSIM	28/08/19
	Current Revision				
C01	Issued for Construction (Identical to Revision P02)	RWIL	PLAN	MSIM	28/08/19

Contractor Approval: CMIT

Fit For Construction

C01

Location

Chelsea Embankment Foreshore KENSINGTON & CHELSEA

Document Information Robert Walpole

LOW LEVEL NO1 WEIR CHAMBER STRUCTURAL LINER AND FLUME LINING FABRICATION DETAILS SHEET 4 OF 4 15/07/19

4440-FLOJV-CHEEF-450-UW-DA-400019 OFFICIAL



GL 1<u>0</u>6.20 / BRICKWORK **REMOVED**

GL 1<u>0</u>6.20

STRUCTURAL LINERS

VICTAULIC NON-RESTRAINED FLEXIBLE COUPLING

Stage 1

Stage 2

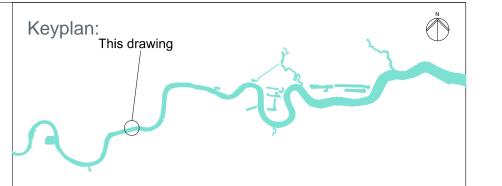
STRUCTURAL LINERS

and flume linings into place.

ends are butted up to each other.

- Structural liners aligned and grouted into place.

- Sewer fabric removed to springing level. Local brickwork removal for Victaulic Couplings.
- Leakage liner removed. Refer to drawing 4440-FLOJV-CHEEF-240-UW-DR-400007 for liner details.



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NOTES:

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- 2. ALL LEVELS ARE IN METRES RELATIVE TO TUNNEL DATUM, UNLESS NOTED OTHERWISE.
- 3. FOR FURTHER DETAILS REFER TO DRAWINGS: 4440-FLOJV-CHEEF-240-UW-DA-400012
- 4440-FLOJV-CHEEF-240-UW-DA-400013
- 4440-FLOJV-CHEEF-240-UW-DA-400014
- 4440-FLOJV-CHEEF-240-UW-DA-400015

SAFETY HEALTH AND **ENVIRONMENTAL**

REFER TO THE CDM DESIGNER'S RISK ASSESSMENT 4428-FLOJV-CHEEF-530-UW-HI-100006

IN ADDITION TO THE RISKS NORMALLY ASSOCIATED WITH THE WORK DETAILED ON THIS DRAWING, NOTE:-

DEMOLITION CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF

WORKS. WORKING IN CONFINED SPACE AND DEEP EXCAVATION.

CONSTRUCTION

INSPECTION.

CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE.

OPERATION & MAINTENANCE CONTINUOUS FLOW OF FOUL WATER

THROUGH SEWER DURING ANY

Fit for Construction

Revision History						
Rev	Description	Dsgnr	Chkd	Appd	Date	
P01	ISSUED FOR ACCEPTANCE	PLIG	RJON	MSIM	17/05/	
P02	STAGE 2 REVISED	RWIL	PLAN	MSIM	28/08/	
	Current Revision					
C01	Issued for Construction (Identical to Revision P02)	RWIL	PLAN	MSIM	28/08/1	

Contractor

Approval: CMIT

Fit For Construction

C01

Location

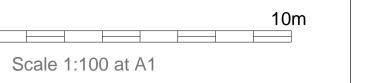
Chelsea Embankment Foreshore KENSINGTON & CHELSEA

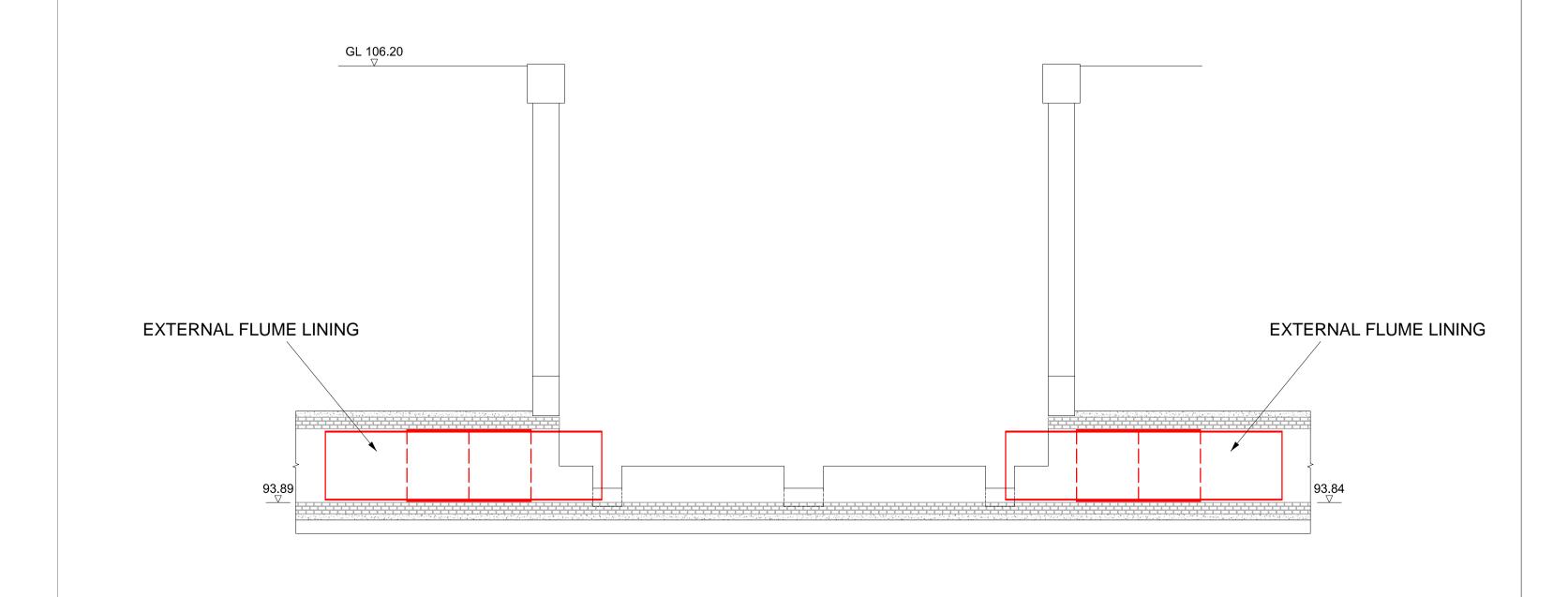
Document Information Robert Walpole

LOW LEVEL NO1 WEIR CHAMBER STRUCTURAL LINER AND FLUME LINING ERECTION SEQUENCE SHEET 1 OF 3

15/07/19

4440-FLOJV-CHEEF-450-UW-DA-400020 OFFICIAL





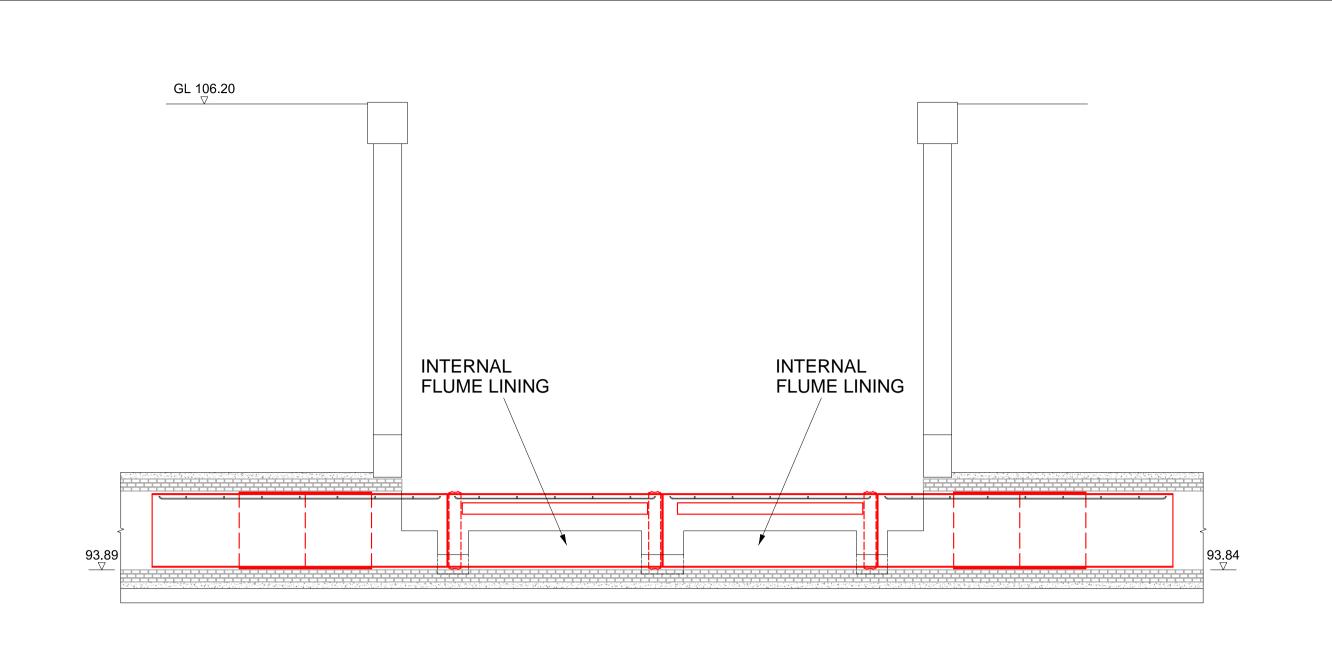
Stage 3

- Two external external flume linings lowered and manoeuvred into place.
- Maintain clear 47mm annulus between structural liner and external flume lining.

- Timber rails fixed to 5 & 7 o'clock positions to support and guide structural liners

- 4No. structural liners sections lowered and manoeuvred into place, ensuring





GL 106.20

GROUT PLUG

Stage 4

- Two internal flume linings with Victaulic Couplings are lowered and manoeuvred into place and supported
- In final position all 4 flume segments to be butting up via steel spacer blocks at 3 and 9 o' clock positions, see steel MK 02A and 02B.

Keyplan: This drawing

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- 4440-FLOJV-CHEEF-240-UW-DA-400013
- 4440-FLOJV-CHEEF-240-UW-DA-400014
- 4440-FLOJV-CHEEF-240-UW-DA-400015

ENVIRONMENTAL REFER TO THE CDM DESIGNER'S RISK ASSESSMENT 4428-FLOJV-CHEEF-530-UW-HI-100006

DEMOLITION

IN ADDITION TO THE RISKS NORMALLY ASSOCIATED WITH THE WORK DETAILED ON THIS DRAWING, NOTE:-

SAFETY HEALTH AND

CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE AND DEEP EXCAVATION.

CONSTRUCTION CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE.

OPERATION & MAINTENANCE CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER DURING ANY INSPECTION.

Stage 5

- Water tight seal formed at both ends of external flume linings using 300mm grout plug. Remaining annulus left as void. Grout plugs to be installed in order from upstream to downstream.
- 3No. Victaulic couplings installed.
- 3No. 267mm long Trelleborg joint seals are then installed internally at each joint. (Access from TWMH 3802 ŠÉ)

Fit for Construction

	Revision history				
Rev	Description	Dsgnr	Chkd	Appd	Date
P01	ISSUED FOR ACCEPTANCE	PLIG	RJON	MSIM	17/05/19
P02	GENERAL NOTES AND STAGE 6 AMENDED	PLIG	PLAN	MSIM	29/07/19
P03	STAGE 4 NOTE REVISED	RWIL	PLAN	MSIM	28/08/19
	Current Revision				
C01	Issued for Construction (Identical to Revision P03)	RWIL	PLAN	MSIM	28/08/19

Contractor Approval: NWAT C01

Fit For Construction

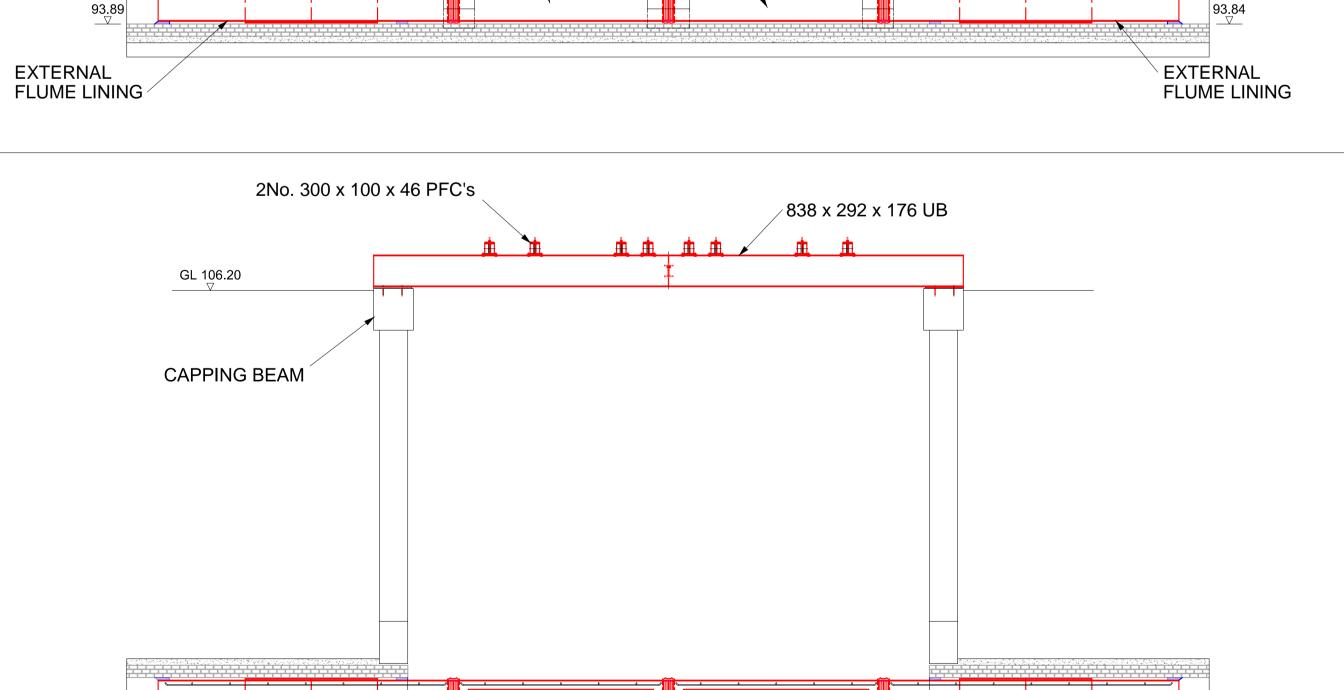
Location

Chelsea Embankment Foreshore KENSINGTON & CHELSEA **Document Information**

Robert Walpole LOW LEVEL NO1 WEIR CHAMBER STRUCTURAL LINER AND FLUME LINING **ERECTION SEQUENCE SHEET 2 OF 3** 22/08/19

4440-FLOJV-CHEEF-450-UW-DA-400021 OFFICIAL





TRELLEBORG SEAL (INTERNAL) +

VICTAULIC COUPLING (EXTERNAL)

INTERNAL

FLUME LINING

GROUT PLUG

INTERNAL

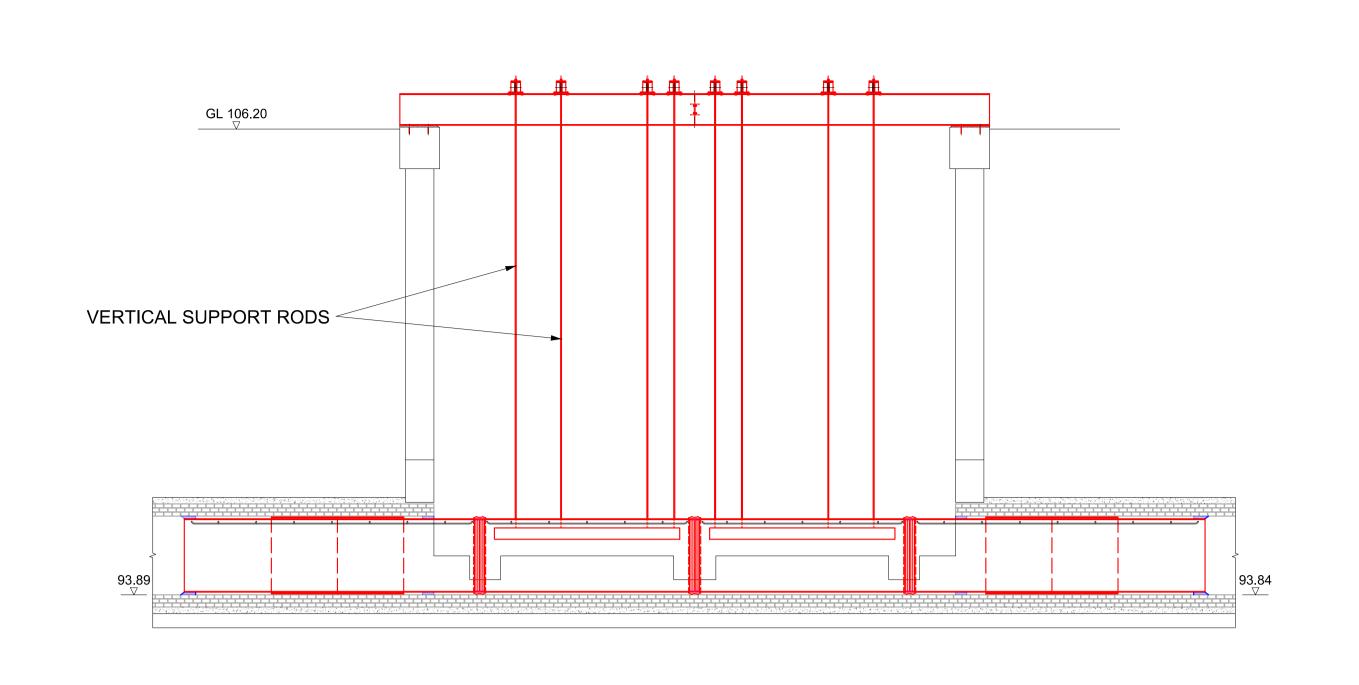
FLUME LINING

PLAN

Stage 6

- 2No. 838 x 292 x 176 UB lowered into place on capping beam.
- 18No. 300 x 100 x 46 PFCs installed spanning between UBs.
- UBs anchored into capping beam.

1m 0			10r
	Scale 1:10	00 at A1	

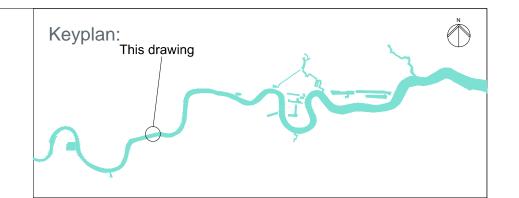


LATERAL SUPPORTS

GL 106.20

Stage 7

- 16No. vertical support rods installed between the top PFCs and the PFC side beams on the internal flume linings.
- Vertical support rods tightened to take the weight of the flumes. Flume to be horizontal with approx. 850mm water depth within, and with steel rod temperature between 10 and 20°C.
- Maintain lateral support with timber rails at 5 and 7 o'clock.



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- 1. DESIGN AND SEQUENCE DRAWINGS FOR PILES AND WEIR CHAMBER BY OTHERS.
- 2. ALL LEVELS ARE IN METRES RELATIVE TO TUNNEL DATUM, UNLESS NOTED OTHERWISE.
- 3. FOR FURTHER DETAILS REFER TO DRAWINGS: 4440-FLOJV-CHEEF-240-UW-DA-400012
- 4440-FLOJV-CHEEF-240-UW-DA-400013
- 4440-FLOJV-CHEEF-240-UW-DA-400014
- 4440-FLOJV-CHEEF-240-UW-DA-400015

SAFETY HEALTH AND **ENVIRONMENTAL**

REFER TO THE CDM DESIGNER'S RISK ASSESSMENT

4428-FLOJV-CHEEF-530-UW-HI-100006

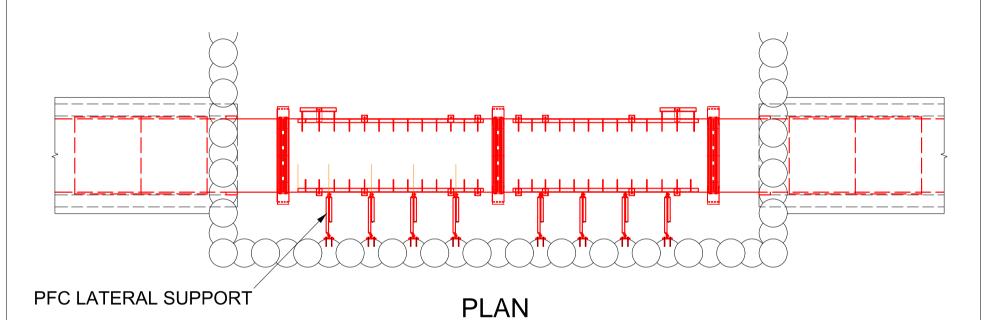
IN ADDITION TO THE RISKS NORMALLY ASSOCIATED WITH THE WORK DETAILED ON THIS DRAWING, NOTE:-

DEMOLITION CONTINUOUS FLOW OF FOUL WATER

THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE AND DEEP EXCAVATION.

CONSTRUCTION CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER FOR DURATION OF WORKS. WORKING IN CONFINED SPACE.

OPERATION & MAINTENANCE CONTINUOUS FLOW OF FOUL WATER THROUGH SEWER DURING ANY INSPECTION.



Stage 8

- Excavate trenches for PFC lateral supports to 94.40 ATD.
- 8No. lateral supports installed between the piling face and the side beams.

Fit for Construction

	Revision History						
Rev	Description	Dsgnr	Chkd	Appd	Date		
P01	ISSUED FOR ACCEPTANCE	PLIG	RJON	MSIM	17/05/19		
P02	ERECTION SEQUENCES 7 & 8 REVISED	PLIG	PLAN	MSIM	29/07/19		
P03	STAGE 7 NOTE REVISED	RWIL	PLAN	MSIM	28/08/19		
	Current Revision						
C01	Issued for Construction (Identical to Revision P03)	RWIL	PLAN	MSIM	28/08/19		

Contractor

Approval: NWAT Fit For Construction

C01

Location

Chelsea Embankment Foreshore KENSINGTON & CHELSEA

Document Information Robert Walpole LOW LEVEL NO1 WEIR CHAMBER STRUCTURAL LINER AND FLUME LINING ERECTION SEQUENCE SHEET 3 OF 3

22/08/19 4440-FLOJV-CHEEF-450-UW-DA-400022 OFFICIAL



Scale 1:100 at A1