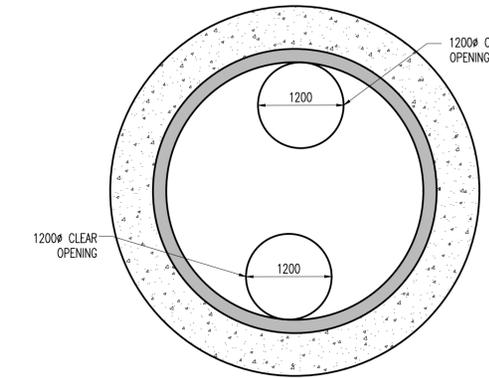
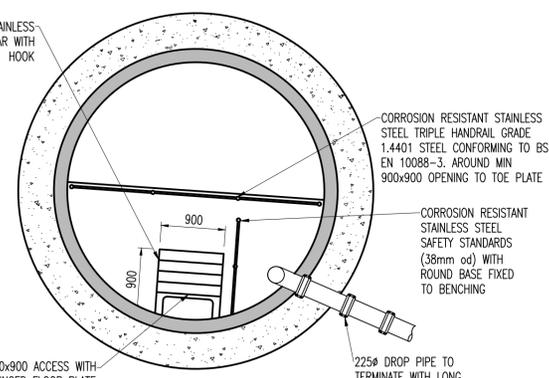


**CWMH02 MANHOLE DETAIL**  
SCALE 1:20

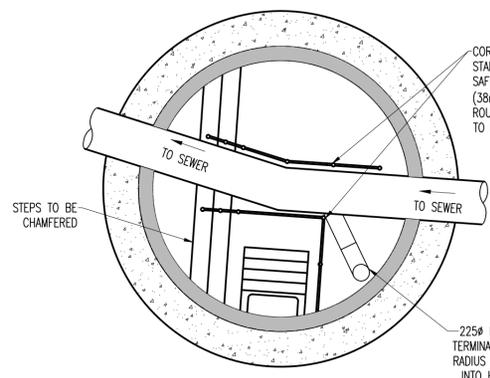
NB: EXISTING SEWER CONSTRUCTION TBC. S185 CONTRACTOR TO AGREE FINAL CHAMBER DESIGN WITH THAMES WATER FOLLOWING SITE EXCAVATION AND ISSUE FINAL CONSTRUCTION/AS-BUILT INFORMATION.



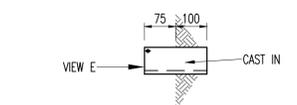
**SECTION A-A**  
SCALE 1:50



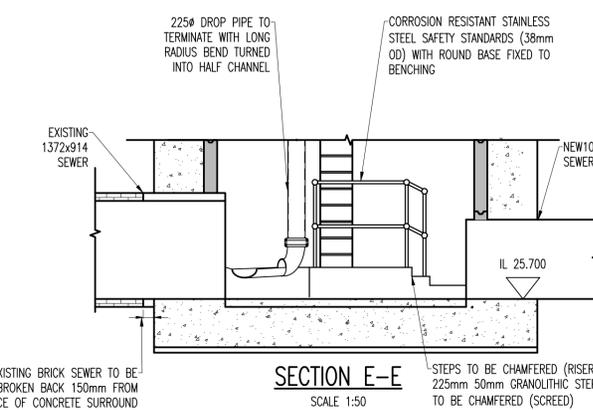
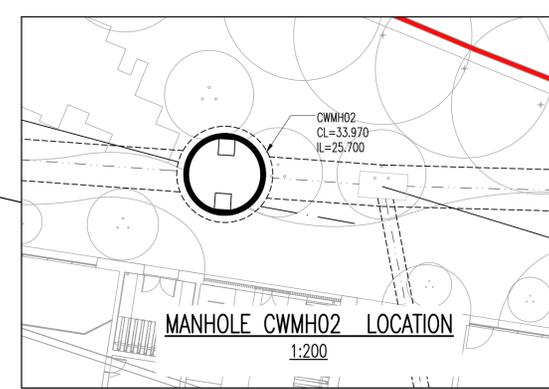
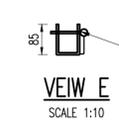
**SECTION B-B**  
SCALE 1:50



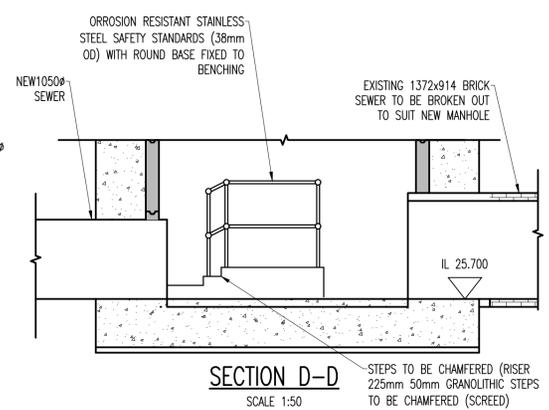
**SECTION C-C**  
SCALE 1:50



**DETAIL D**  
**SUPPORT BRACKET IN TUNNEL**  
(EX. 6mm PLATE ALL STAINLESS STEEL)  
SCALE 1:10



**SECTION E-E**  
SCALE 1:50



**SECTION D-D**  
SCALE 1:50

- Notes**
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.
  2. THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.
  3. THIS DRAWING HAS BEEN PRODUCED ELECTRONICALLY AND MAY HAVE BEEN PHOTO REDUCED OR ENLARGED WHEN COPIED. HENCE, DO NOT RELY ON ANY SCALES QUOTED. WORK ONLY TO FIGURED DIMENSIONS (DO NOT SCALE). ALL DIMENSIONS TO BE CHECKED ON SITE. ANY ERRORS OR OMISSIONS TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
  4. ALL CONSTRUCTION WORK SHALL CONFORM WITH THE FREQUENTS OF THE CIVIL ENGINEERING SPECIFICATION THE WATER INDUSTRY (SEWER SECTOR GUIDANCE) UNLESS OTHERWISE STATED
  5. GMS - DENOTES GALVANISED MILD STEEL.
  6. FULLY WATERTIGHT JOINTS TO BE SEALED USING A HYDROPHILIC RUBBER JOINT SEALANT.
  7. ALL DIVESTED/ABANDONED PUBLIC SEWERS TO BE REMOVED FROM THE GROUND

C.D.M.	
SIGNIFICANT RISKS AND HAZARDS:	
EXISTING BRICK,LARGE DIAMETER SEWERS CROSSING SITE AT LOW LEVEL.	
EXISTING BELOW GROUND VAULTS ALONG NORTHERN SITE BOUNDARY. NEW PIPE RUNS ADJACENT TO PROPOSED FOUNDATION/PILES WORKS UNDERTAKEN ON LIVE SEWER	
KEY DESIGN DECISIONS TO REDUCE OR ELIMINATE HAZARDS:	
NUMEROUS SURVEYS UNDERTAKEN TO IDENTIFY EXISTING BURIED STRUCTURES. CONTRACTOR TO REVIEW SURVEYS AHEAD OF START OF WORKS AND UNDERTAKE ADDITIONAL ON-SITE INVESTIGATIONS WHERE REQUIRED.	
REFER TO SITESIDE RISK REGISTER FOR ADDITIONAL INFORMATION NEW DRAINAGE TO BE INSTALLED AFTER FILLING. PIPE RUNS SUBJECT TO A BUILDING OVER AGREEMENT WITH THAMES WATER. GROUND MOVEMENT ANALYSIS UNDERTAKEN AS PART OF TW APPROVAL TO CONFIRM LOADING FROM FOUNDATIONS DO NOT EXCEED THAMES WATER'S ACCEPTABLE LIMITS.	
WORKS TO BE UNDERTAKEN BY APPROVED TW CONTRACTOR, TWOSA TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS	

Rev.	Date	By	Details Of Revision
T01	02.03.21	CAA	ISSUED FOR TENDER

**ST. GEORGE WEST LONDON**

**Project**  
CAMDEN GOODS YARD (PHASE 2)

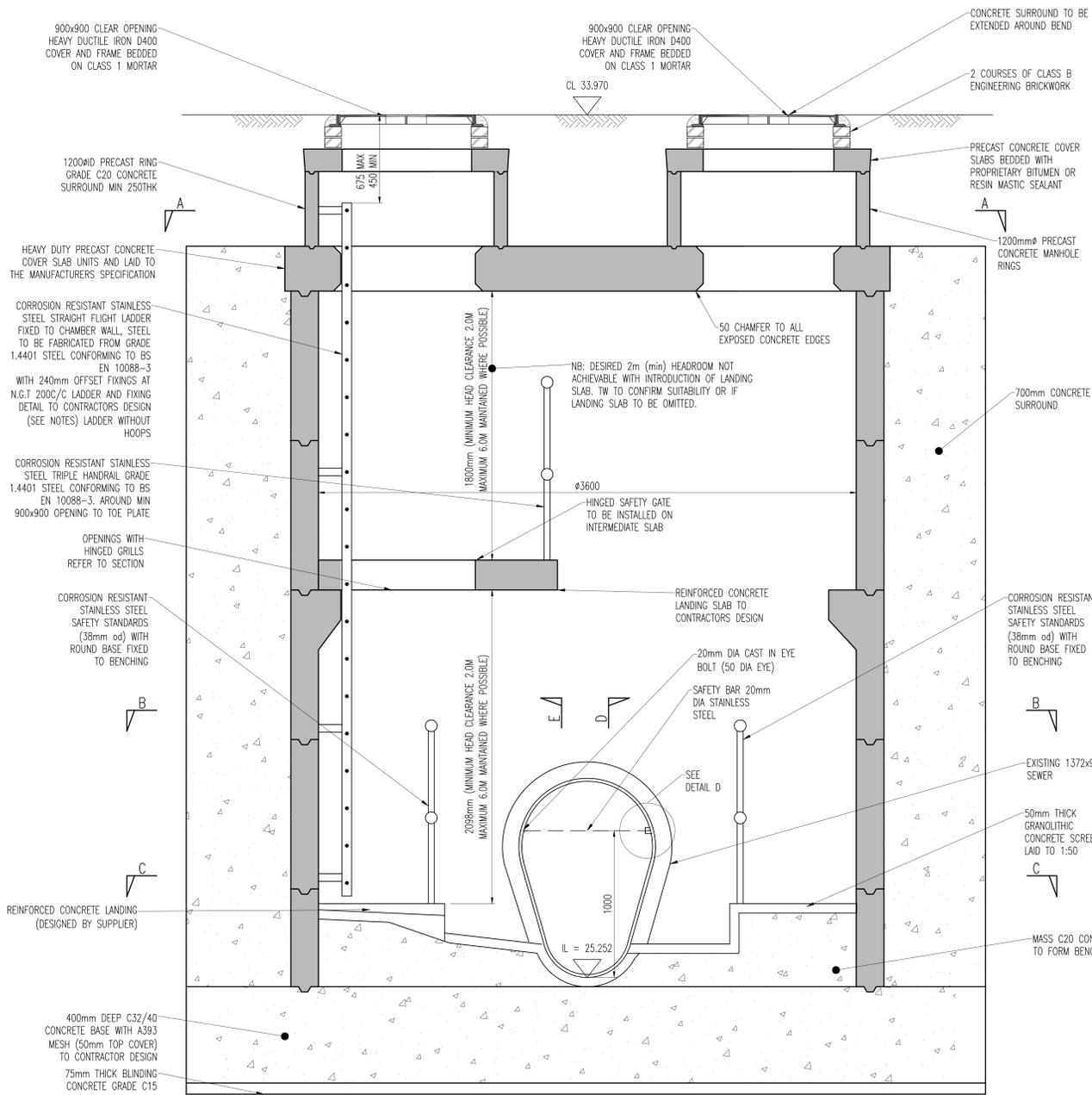
**Title**  
S185 SEWER MANHOLE CONSTRUCTION DETAIL CWMH02

**WALSH**  
Structural and Civil Engineers  
32 Lafone Street  
London  
SE1 2JX  
t: +44(0)20 7089 6800  
e: london@walsh.co.uk  
walsh.co.uk

Status				
<b>TENDER</b>				
ISSUED FOR CONTRACTOR TENDER, SUBJECT TO THAMES WATER REVIEW AND APPROVAL				
Drawn	CAA	AI Scales	AS SHOWN	
Date	02.03.21	Eng.	HW	App'd.
WA Ref.	5359	Chk.	JK	Suitbity.

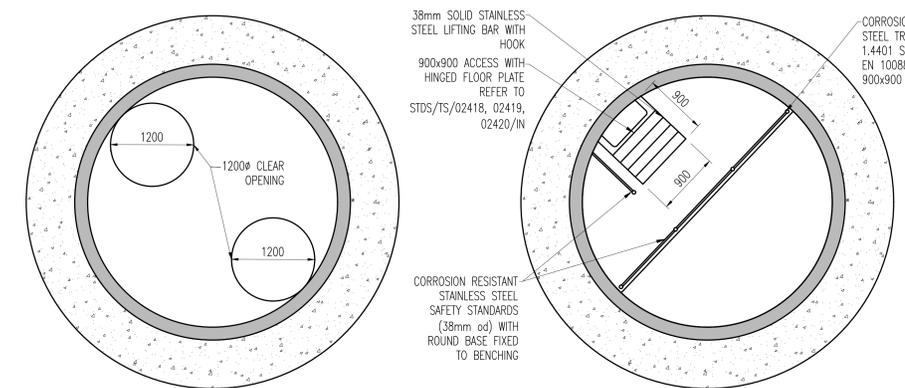
Drawing No.		Rev.
CCY00-WAL-XXX-ZZ-DR-CV-3415		T01

I:\192-108-1\176\walsh\Projects\3389\02000\CAD\02000-116-XXX-ZZ-DR-CV-3415.dwg 02/03/21 17:20



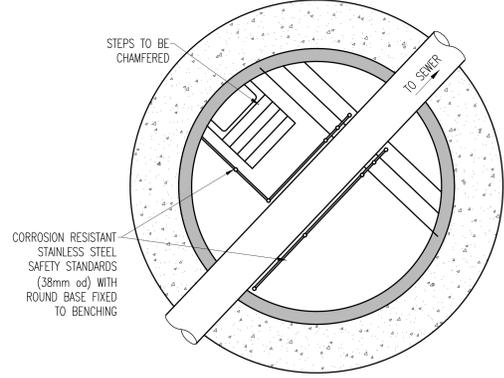
**CWMH04 3600 $\phi$  MANHOLE DETAIL**  
SCALE 1:20

NB: EXISTING SEWER CONSTRUCTION TBC. S185 CONSTRUCTOR TO AGREE FINAL CHAMBER DESIGN WITH THAMES WATER FOLLOWING SITE EXCAVATION AND ISSUE FINAL CONSTRUCTION/AS-BUILT INFORMATION.

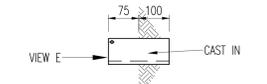


**SECTION A-A**  
SCALE 1:50

**SECTION B-B**  
SCALE 1:50



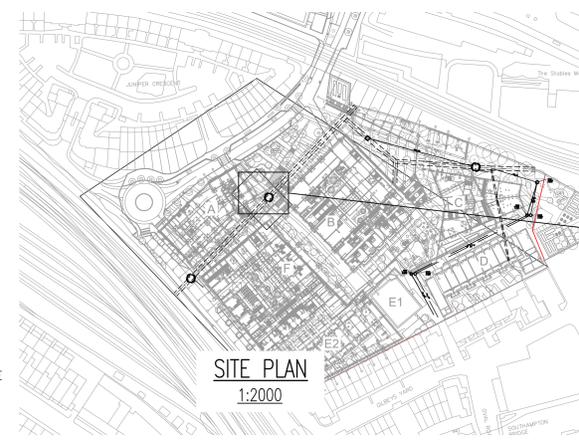
**SECTION C-C**  
SCALE 1:50



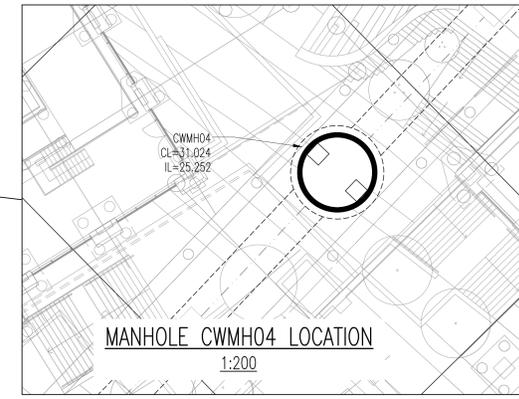
**DETAIL D**  
**SUPPORT BRACKET IN TUNNEL**  
(EX. 6mm PLATE ALL STAINLESS STEEL)  
SCALE 1:10



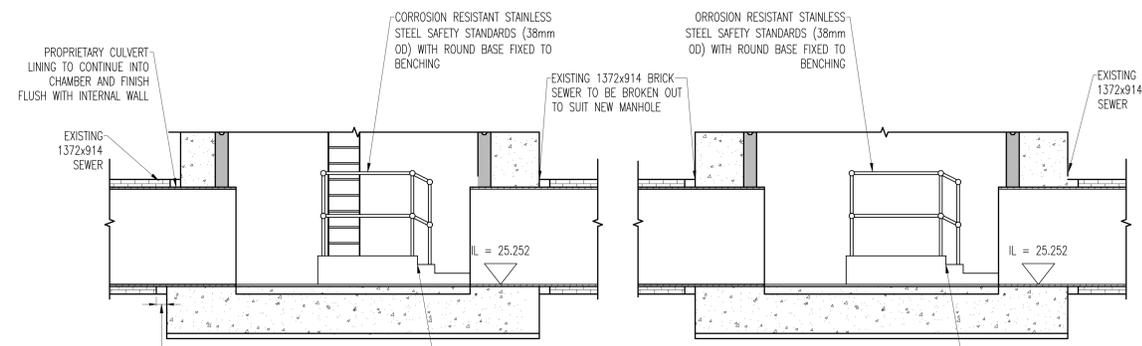
**VIEW E**  
SCALE 1:10



**SITE PLAN**  
1:2000



**MANHOLE CWMH04 LOCATION**  
1:200



**SECTION E-E**  
SCALE 1:50

**SECTION D-D**  
SCALE 1:50

EXISTING BRICK SEWER TO BE BROKEN BACK 150mm FROM FACE OF CONCRETE SURROUND STANK WALL CONSTRUCTED TO CONNECT EXISTING BRICK SEWER TO NEW MANHOLE

**Notes**

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.
- THIS DRAWING HAS BEEN PRODUCED ELECTRONICALLY AND MAY HAVE BEEN PHOTO REDUCED OR ENLARGED WHEN COPIED. HENCE, DO NOT RELY ON ANY SCALES QUOTED. WORK ONLY TO FIGURED DIMENSIONS (DO NOT SCALE). ALL DIMENSIONS TO BE CHECKED ON SITE. ANY ERRORS OR OMISSIONS TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL CONSTRUCTION WORK SHALL CONFORM WITH THE FREQUENTS OF THE CIVIL ENGINEERING SPECIFICATION THE WATER INDUSTRY (SEWER SECTOR GUIDANCE) UNLESS OTHERWISE STATED
- GMS - DENOTES GALVANISED MILD STEEL.
- FULLY WATERTIGHT JOINTS TO BE SEALED USING A HYDROPHILIC RUBBER JOINT SEALANT.
- ALL DIVESTED/ABANDONED PUBLIC SEWERS TO BE REMOVED FROM THE GROUND

**C.D.M.**

**SIGNIFICANT RISKS AND HAZARDS:**

EXISTING BRICK/LARGE DIAMETER SEWERS CROSSING SITE AT LOW LEVEL. EXISTING BELOW GROUND VAULTS ALONG NORTHERN SITE BOUNDARY. NEW PIPE RUNS ADJACENT TO PROPOSED FOUNDATION/PILES WORKS UNDERTAKEN ON LIVE SEWER

**KEY DESIGN DECISIONS TO REDUCE OR ELIMINATE HAZARDS:**

NUMEROUS SURVEYS UNDERTAKEN TO IDENTIFY EXISTING BURIED STRUCTURES. CONTRACTOR TO REVIEW SURVEYS AHEAD OF START OF WORKS AND UNDERTAKE ADDITIONAL ON-SITE INVESTIGATIONS WHERE REQUIRED. REFER TO SITEWIDE RISK REGISTER FOR ADDITIONAL INFORMATION. NEW DRAINAGE TO BE INSTALLED AFTER PILING. PIPE RUNS SUBJECT TO A BUILDING OVER AGREEMENT WITH THAMES WATER. GROUND MOVEMENT ANALYSIS UNDERTAKEN AS PART OF TW APPROVAL TO CONFIRM LOADING FROM FOUNDATIONS DO NOT EXCEED THAMES WATER'S ACCEPTABLE LIMITS. WORKS TO BE UNDERTAKEN BY APPROVED TW CONTRACTOR, TWOSA TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS

Rev.	Date	By	Details Of Revision
T01	02.03.21	CAA	ISSUED FOR TENDER

**Client**  
ST. GEORGE WEST LONDON

**Project**  
CAMDEN GOODS YARD (PHASE 2)

**Title**  
S185 SEWER MANHOLE CONSTRUCTION DETAILS CWMH04

**WALSH**  
Structural and Civil Engineers  
32 Lafone Street  
London  
SE1 2LX  
t: +44(0)20 7089 6800  
e: london@walsh.co.uk  
walsh.co.uk

**Status**  
**TENDER**

ISSUED FOR CONTRACTOR TENDER, SUBJECT TO THAMES WATER REVIEW AND APPROVAL

**Drawn** CAA **A1 Scales** AS SHOWN

**Date** 02.03.21 **Eng.** HW **Chk.** JK **App'd.**

**WA Ref.** 5359 **Suitblty.**

**Drawing No.** CGY00-WAL-XXX-ZZ-DR-CV-3416 **Rev.** T01