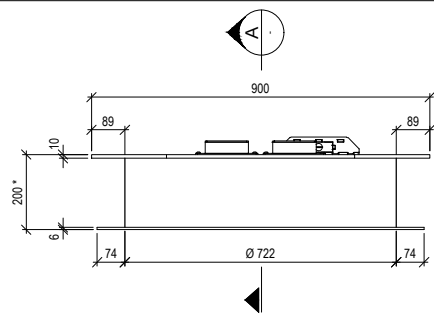
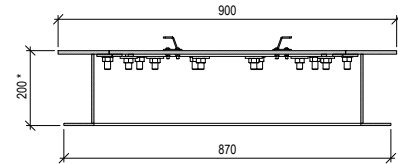
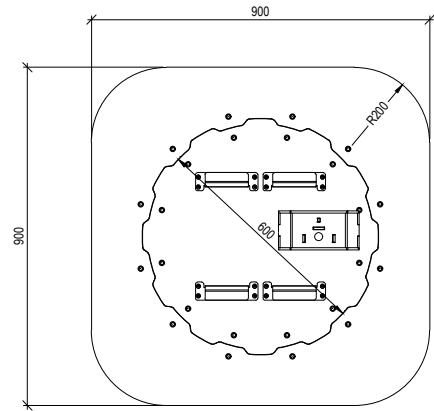




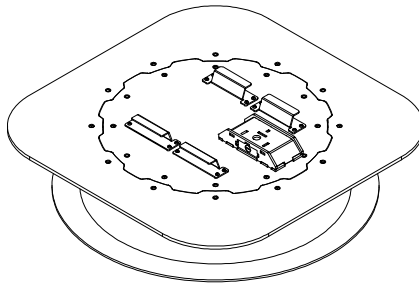
ELEVATION
SCALE 1:10



SECTION A
SCALE 1:10

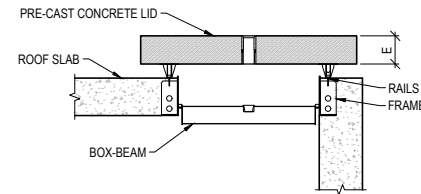


PLAN
SCALE 1:10

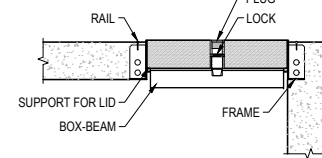


ISOMETRIC VIEW
N.T.S.

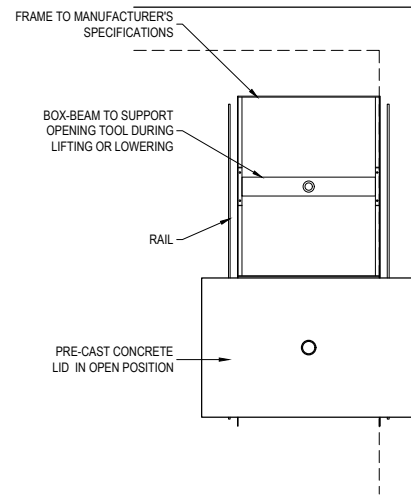
TYPICAL DETAILS OF MANHOLE COVER (UMHC)
AS MANUFACTURED BY INTERLOCK SYSTEMS



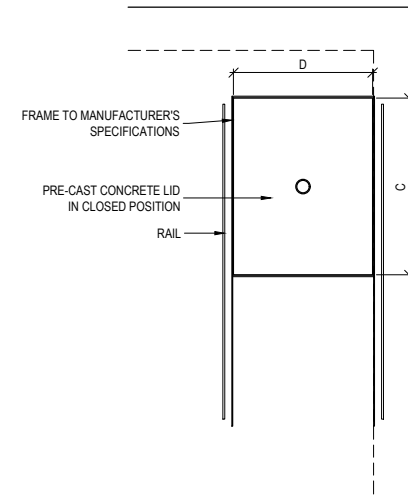
SECTION
LID IN OPEN POSITION
SCALE 1:20



SECTION
LID IN CLOSED POSITION
SCALE 1:20

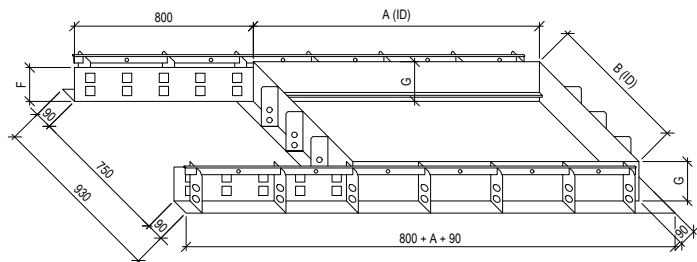
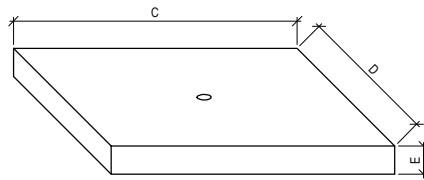


PLAN
LID IN OPEN POSITION
SCALE 1:20



PLAN
LID IN CLOSED POSITION
SCALE 1:20

- NOTES :
- A = FRAME OPENING LENGTH
 - B = FRAME OPENING WIDTH
 - C = SCREW LID LENGTH
 - D = SCREW LID WIDTH
 - E = SCREW LID DEPTH
 - F = SLAB THICKNESS - 20
 - G = F + 30

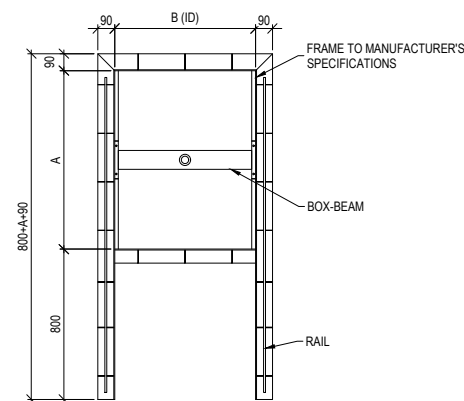


SCREW LID & FRAME DIMENSIONS
N.T.S.

NOTE :

- EITHER OF THE MANHOLE ACCESS UNITS OR SIMILAR APPROVED MAY BE USED
- STEEL REINFORCING IN CONCRETE ROOF SLAB TO BE ADJUSTED TO SUIT MANHOLE ACCESS UNIT.

SIZES FOR SCREW LID & FRAME				
FRAME		SCREW LID		
LENGTH	WIDTH	LENGTH	WIDTH	DEPTH
A	B	C	D	E
950	750	950	740	150
1150	750	1150	740	150
1550	750	1550	740	150
1950	750	1950	740	150



PLAN - SCREW LID FRAME
SCALE 1:20

TYPICAL DETAILS OF MANHOLE ACCESS UNIT
AS MANUFACTURED BY CONCRETE DOORS & VAULTS

NOTES AND SPECIFICATIONS

GENERAL

- ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS STANDARD
- ALL DIMENSIONS ARE IN mm (UNLESS OTHERWISE SPECIFIED)
- DO NOT SCALE FROM THESE DRAWINGS
- ALL DIMENSIONS TO BE CHECKED AND APPROVED ON SITE
- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD COT DETAIL DRAWINGS
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD DRAWINGS (IF APPLICABLE)
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4
- THE SIGNATURE OR INITIALS ON THIS DRAWING OF ANY DIRECTOR OF THE WATER AND SANITATION DEPARTMENT, IN NO WAY, REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT
- THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE WATER AND SANITATION DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH
- FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE



CITY OF TSHWANE
WATER AND SANITATION
DEPARTMENT

AMENDMENTS				
NO	DATE	APPROVED	DESCRIPTION	PAR
*				

WATER AND SANITATION			
FOR INTERNAL APPROVAL - RECEIVED SIGN WHEN APPLICABLE			
DIRECTOR: WATER AND SANITATION - PLANNING			
NAME	Prof. Reg. No.	SIGNATURE	DATE
REGIONAL DIRECTOR: (1,2,3,4,5,6 or 7)			
NAME	Prof. Reg. No.	SIGNATURE	DATE
DIRECTOR: SYSTEM DEVELOPMENT			
NAME	Prof. Reg. No.	SIGNATURE	DATE
DIRECTOR: BULK WATER (P/P)			
NAME	Prof. Reg. No.	SIGNATURE	DATE
DIRECTOR: INFRASTRUCTURE PROVISION			
NAME	Prof. Reg. No.	SIGNATURE	DATE
DIRECTOR: WASTE WATER TREATMENT			
NAME	Prof. Reg. No.	SIGNATURE	DATE

CONSULTANT DETAIL	
DESIGNED	
NAME:	Pr Eng. Prof Reg No.:
SIGNATURE:	DATE:
DRAWN	
NAME: M. M. BURGER	DATE: JULY 2016
SIGNATURE:	DATE:
CHECKED	
NAME:	Pr Eng. Prof Reg No.:
SIGNATURE:	DATE:
INFORMATION OFFICE CHECKED	
NAME:	DATE:
SIGNATURE:	DATE:
DESIGN OFFICE APPROVAL	
NAME: T. F. HILDER	Prof Reg No: 880539
SIGNATURE:	DATE: JAN 2017
HEREBY CERTIFY THAT THE SERVICES WILL/HAVE BEEN INSTALLED ACCORDING TO NOTE 9 OF THE ABOVE GENERAL NOTES AND TO THE DRAWING	
SIGNATURE:	DATE:
CONSULTANT DRAWING NUMBER:	

PROJECT STATUS	
RECEIVED SIGN WHEN APPLICABLE	
☐ CONCEPT DRAWING	☐ TENDER DRAWING
☐ APPROVED CONSTRUCTION DRAWING	☐ AS BUILT DRAWING
PROJECT ENGINEER OF COT:	
NAME:	Pr Eng. Prof Reg No.:
SIGNATURE:	DATE:
INSPECTOR OF WORKS OF COT:	
NAME:	Pr Eng. Prof Reg No.:
SIGNATURE:	DATE:

CONTRACT No.	
PROJECT No.	
SHEET No.	
PAPER SIZE	
SCALE	
AS SHOWN	
DATE	

LOCATION OF PROJECT:	
DESCRIPTION OF PROJECT:	
STANDARD DRAWING : GENERAL DETAILS OF HIGH SECURITY MANHOLE ACCESS UNITS	
WBS No. :	
COT DRAWING NUMBER:	

7515-VC223