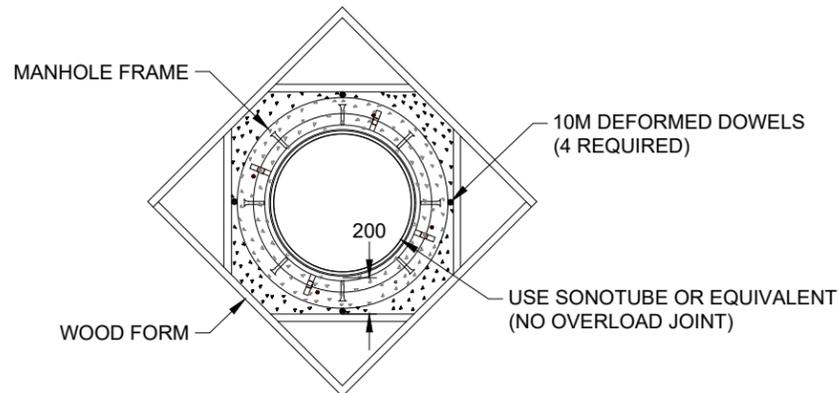
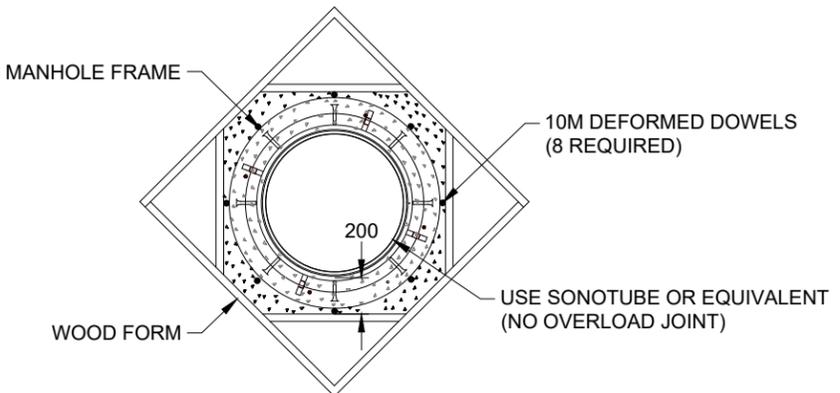


NOTES:

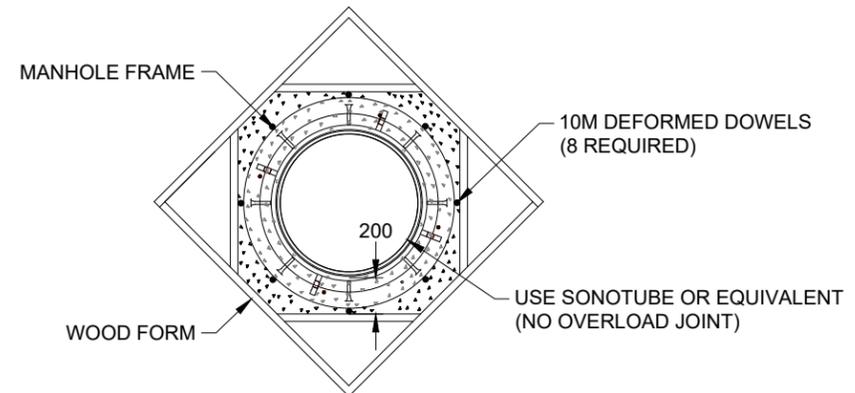
- A. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
- B. CONCRETE AS PER SECTION 7.0 OF GCS0005.
- C. STEPS TO BE INSTALLED AS REPLACEMENT UNITS ONLY. HYDRO OTTAWA APPROVAL REQUIRED.
- D. COLLAR DIMENSION SHALL BE BETWEEN 450 mm AND 760 mm. PREFERRED DIMENSION 450mm TO GUTTER GRADE.
- E. GALVANIZED ANCHOR BOLTS [4 x 355 mm x 16 mm] DIA. REQUIRED.
- F. FRAME TO BE GROUNDED WHERE INSTALLED WITH PADMOUNTED EQUIPMENT OR WHERE MANHOLES ARE CUSTOMER OWNED.
- H. REINSTATEMENT AS PER SECTION 5.0 OF GCS0005.



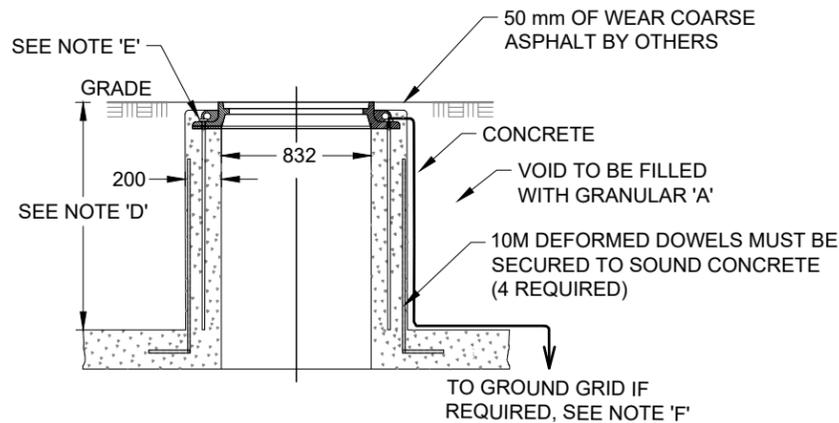
TOP VIEW - CAST IN PLACE MANHOLE COLLAR



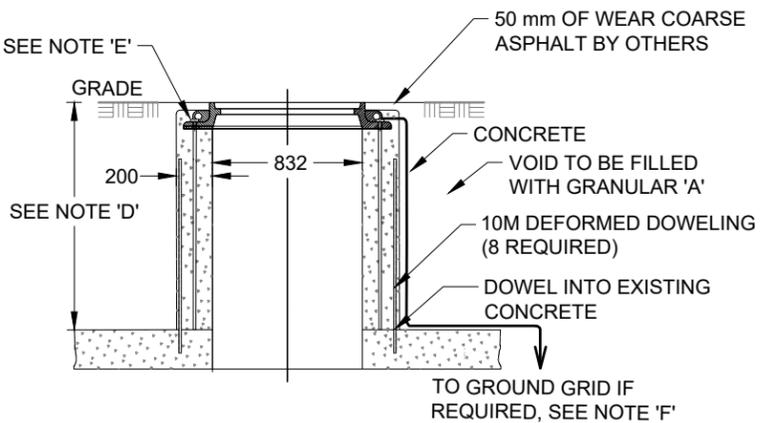
TOP VIEW - PRECAST MANHOLE COLLAR



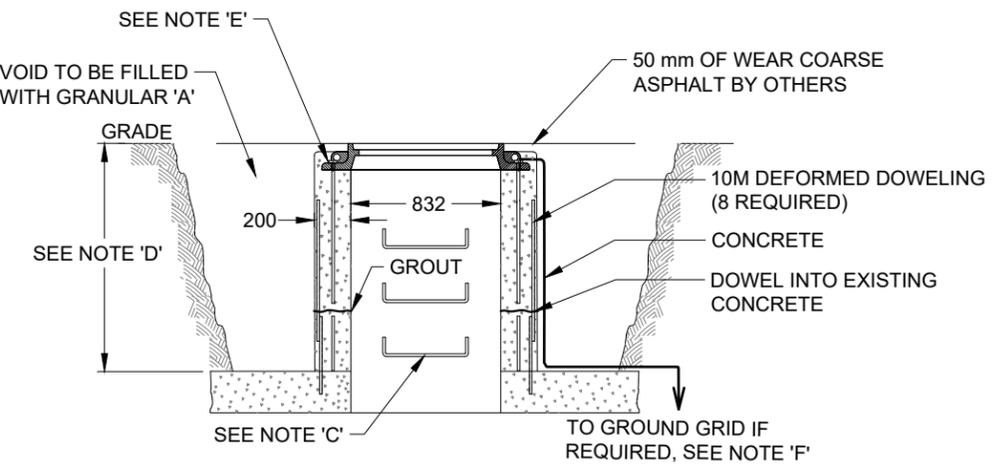
TOP VIEW - MANHOLE COLLAR REBUILD



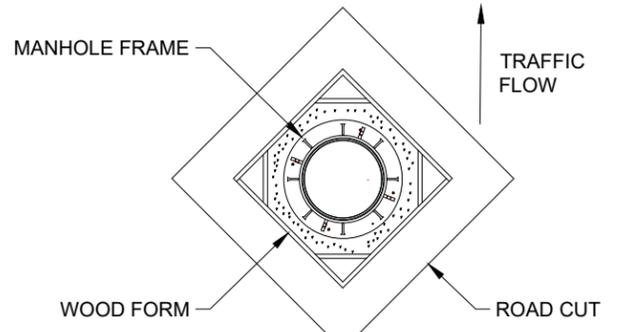
TYPICAL CAST IN PLACE MANHOLE COLLAR



TYPICAL PRECAST MANHOLE COLLAR



TYPICAL MANHOLE COLLAR REBUILD



TYPICAL ROADWAY CUT OUT DETAIL

REVISIONS		PREP	CHKD	APPD	TITLE	
REV: 3	DATE: 2010-05-27 CHANGE: TITLE CHANGE	FB	RW	CSM		ENGINEERING SPECIFICATION
REV: 4	DATE: 2017-03-15 CHANGE: MAJOR LAYOUT CHANGE	GM	RW	CSM	MANHOLE COLLAR	
REV: 5	DATE: 2019-05-27 CHANGE: CHANGE AND FIX WALL THICKNESS TYPO.	EV	MW	BDH	CONSTRUCTION DETAIL	
					NO:	
PREP: G. MOLNAR CHKD: C. PROULX APPD: C. MALONE P. Eng. DATE: 2002-04-04 SCALE: N.T.S. @ ANSI B						
					1	REV: 5
					OF 1	

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