GENERAL REFERENCES FOR DRAWINGS:

REGION OF PEEL STANDARD DRAWINGS DELETED:

DRAWING NUMBER		DRAWING TITLE	ORIGINAL DATE	REPLACED WITH NEW REGION OF PEEL STANDARD DRAWING	REPLACED WITH OPSD
SECTION 2-1	2-1-1	PRECAST MAINTENANCE HOLE 1200mm DIAMETER	MAY 2014	2-5-3	
	2-1-2	PRECAST MAINTENANCE HOLE 1500mm AND 1800mm DIAMETER	MAY 2014	2-5-4, 2-5-5	
	2-1-3	PRECAST MAINTENANCE HOLE TEES	MAY 2014	2-7-6, 2-7-7, 2-7-8	
	2-1-4	MAINTENANCE HOLE BENCHING DETAILS	MAY 2009	2-5-20	
	2-1-5	MAINTENANCE HOLE DROP STRUCTURE EXTERNAL ASSEMBLY	MAY 2009	2-5-26	
	2-1-6	MAINTENANCE HOLE DROP STRUCTURE INTERNAL ASSEMBLY	SEPT. 2006	2-5-27	
	2-1-7	MAINTENANCE HOLE VENTING DETAILS	MAY 2009	2-5-22	
SECTION 2-2	2-2-1	SAFETY PLATFORM FOR 1200mm DIAMETER PRECAST M.H.	DEC. 2013	2-6-13, 2-6-14	
	2-2-2	STANDARD HEAVY DUTY FRAME AND COVER	MAY 2009	2-6-1, 2-6-2, 2-6-3, 2-6-4	
	2-2-3A	DETAIL OF ANCHORING METHOD FOR WATER TIGHT M.H.	MAY 2009	2-6-8	
	2-2-3B	DETAIL OF ANCHORING METHOD FOR WATER TIGHT M.H.	MAY 2009	2-6-7	
	2-2-4	STANDARD MAINTENANCE HOLE STEPS ALUMINUM	MAY 2009	2-6-11	
SECTION 2-4	2-4-1	SERVICE CONNECTIONS FOR RIGID PIPE RESIDENTIAL LOW TO MEDIUM DENSITY	MAR. 2017	2-4-2	
	2-4-5	GRINDER PUMP TO LOW PRESSURE SANITARY SEWER SERVICE	MAR. 2017	2-4-7	
	2-4-6	GRINDER PUMP TO LOW PRESSURE SANITARY SEWER WITHIN THE ROAD ALLOWANCE	MAR. 2017	2-4-7	
SECTION 2-5	2-5-17	TYPICAL RIBBED PVC PIPE WALL CONNECTION DETAILS	MAR. 2017	2-5-15	
	2-5-23	TYPICAL FROST STRAP DETAILS	MAR. 2017	2-6-16	
	2-5-24	SANITARY CHAMBER MARKING POST	MAR. 2017	2-6-17	
SECTION 2-6	2-6-3	STANDARD HEAVY DUTY FRAME AND COVER WITH INFLOW DISH OPTION	MAR. 2017	2-6-1, 2-6-2	
	2-6-8	DETAIL OF ANCHORING METHOD FOR WATERTIGHT MAINTENANCE HOLE WITH ALUMINUM, STAINLESS STEEL OR GALVANIZED STRAP	MAR. 2017	2-6-7	

ONTARIO PROVINCIAL STANDARD DRAWING REFERENCES TO BE READ IN CONJUNCTION WITH REGION OF PEEL STANDARD DRAWINGS

DRAWING NUMBER	DRAWING TITLE
404.020	ALUMINUM SAFETY PLATFORM FOR CIRCULAR MAINTENANCE HOLES
404.022	ALUMINUM SAFETY PLATFORM FOR 1800mm CIRCULAR MAINTENANCE HOLES WITH DROP PIPE
405.020	MAINTENANCE HOLE STEPS SOLID
406.010	ALUMINUM LADDER FOR MAINTENANCE HOLES
701.021	MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES
1003.010	CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE TEE
1003.020	CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE WYE
1003.030	INTERNAL DROP STRUCTURE FOR EXISTING MAINTENANCE HOLES

NOTE: THIS LIST INCLUDES OPSD REFERENCES THAT APPLY DIRECTLY TO THE NEW AND REVISED REGION OF PEEL STANDARD DRAWINGS, BUT IT DOES NOT PRECLUDE THE APPROVED USE OF ANY APPLICABLE OPSD REFERENCES NOT LISTED ABOVE.

GENERAL NOTES FOR PRECAST CONCRETE MAINTENANCE HOLES AND CHAMBERS:

1. ALL PRECAST CHAMBERS TO BE SUPPLIED BY A MANUFACTURER CERTIFIED UNDER THE OCPA PLANT PREQUALIFICATION PROGRAM.
2. SUBMIT SHOP DRAWINGS TO THE CONTRACT ADMINISTRATOR FOR INFORMATION. ALL DRAWINGS SHALL BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTISE IN ONTARIO.
3. THE MANUFACTURER SHALL PROVIDE LETTERS SIGNED BY A PROFESSIONAL ENGINEER CERTIFYING THE FOLLOWING:
   i) THAT THE DESIGN OF THE PRECAST UNITS MEETS THE REQUIREMENTS OF THE SPECIFICATIONS
   ii) THAT THE PRECAST UNITS HAVE BEEN MANUFACTURED AS PER DESIGN AND INSPECTED IN ACCORDANCE WITH THE PLANT PREQUALIFICATION PROGRAM
4. PROVIDE CONCRETE WITH MINIMUM STRENGTH OF 35 MPa UNLESS A HIGHER STRENGTH IS REQUIRED BY THE MANUFACTURER OR DESIGNER.
5. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CSA G30.18 WITH A MINIMUM YIELD STRENGTH OF Fy=400 MPa.
6. IF CHAMBER (PRE-EXISTING) IS ANY OTHER CONFIGURATION OTHER THAN ROUND, THE CONTRACTOR SHALL FIRST CAST-IN-PLACE A SQUARE TO ROUND TRANSITION (STD. DWG. 2-8-11) TO MATCH SPECIFICATIONS AND REQUIREMENTS OF REHABILITATION PRODUCTS BEING UTILIZED. CAST-IN-PLACE TRANSITION MUST BE ENGINEERED AND STAMPED AND PROVIDED WITH A WATERTIGHT CONNECTION BETWEEN EXISTING AND NEW SECTION.
7. IF CHAMBER (NEW) UTILIZED CAST-IN PLACE ADJUSTMENT UNITS THEN IT MUST MATCH SPECIFICATIONS AND REQUIREMENTS OF APPURTENANCES BEING UTLIZED. STAMPED SHOP DRAWING MUST BE PROVIDED AND MUST MEET ALL REQUIREMENTS AND SPECIFICATIONS OF PRECAST ADJUSTMENT UNITS FOR EACH PROJECT WHERE UTILIZED. THIS APPLICATION CAN ONLY BE UTILIZED WITH WRITTEN CONSENT FROM PEEL REGION PROJECT MANAGER.
8. REFER TO STANDARD DRAWINGS IN SECTIONS 2-5 AND 2-6, AND ONTARIO PROVINCIAL STANDARD DRAWINGS FOR CHAMBER DETAILS PERTAINING TO WATERPROOFING, JOINT SEALING, ADJUSTMENT UNITS, FRAME & COVERS, CHAMBER STEPS AND LADDERS AND FROST STRAPS.
9. ALL PRECAST COMPONENTS SHALL BE DESIGNED AND MANUFACTURED TO CSA STANDARD A23.3 AND CSA STANDARD A23.4. FURTHER, ALL PRECAST CHAMBER COMPONENTS, INCLUDING TOP SLABS, SHALL ALSO MEET THE REQUIREMENTS OF CSA STANDARD S6 (CANADIAN HIGHWAY BRIDGE CODE).
10. THE PURPOSE OF STANDARD DRAWINGS IS FOR ILLUSTRATION ONLY. ALL FINAL DRAWINGS, SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE PROVIDED BY CONTRACTOR AND/OR SUPPLIER BASED ON PROJECT AND SITE CONDITIONS.

GENERAL NOTES FOR PIPING:

1. SUBMIT CONCRETE PRESSURE PIPE SHOP DRAWINGS TO THE CONTRACT ADMINISTRATOR FOR REVIEW AND COMMENT. ALL DRAWINGS SHALL BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTISE IN ONTARIO.
2. REFER TO STANDARD DRAWING 2-5-21 FOR MAXIMUM PIPE SIZES IN PRECAST MAINTENANCE HOLES OR CHAMBERS.

Region of Peel
working with you

PUBLIC WORKS
STANDARD DRAWING

GENERAL NOTES AND REFERENCES

REV. DATE: NOVEMBER 2019

REVISION NUMBER: 1	FOR REVISION TRACKING REFER TO STD. DWG. 2-0-2
APPROVED BY **A.P.**	DRAWN BY **AINLEY GROUP**
STD. DWG. NUMBER **2-0-1**	SCALE **N.T.S.**