

Note 2 -

2 For slipforming procedure a 5% batter is acceptable

Treatment at entrances shall be according to OPSD 351.010

3 Outlet treatment shall be according to the OPSD 610 Series.

All dimensions are in millimetres unless otherwise shown

Profile grade —

The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.

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PLAN

SECTION A-A

TYPICAL PIPE INSULATION DETAIL

The insulation material shall be extruded polystyrene according to OPSS 1605 with a minimum compressive strength of 275 kPa.

Pipe embedment or bedding, cover, and backfill shall be according to:

a) Flexible OPSD 802.013, 802.03, 802.03, and 802.023, b) Rigid — OPSD 802.030, 802.031, 802.032, 802.033, 802.050, 802.051, 802.052, and 802.053.

inimum insulation thickness shall be 50mm.

loints shall be staggered for multiple insulation sheets.

his OPSD is to be read in conjunction with OPSD 3090.100 and 3090.101.

All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING

INSULATION FOR

SEWERS AND WATERMAINS

PRECAST CONCRETE DITCH INLET

600 x 600mm

Additional width when sidewalk

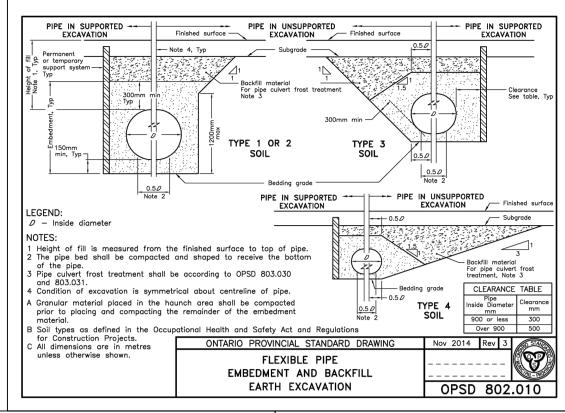
Finished road -surface

- Dropped curb at entrances

OPSD 600.110

Embedment, bedding, cover, and backfill material, Note 2

nsulation, Note 1



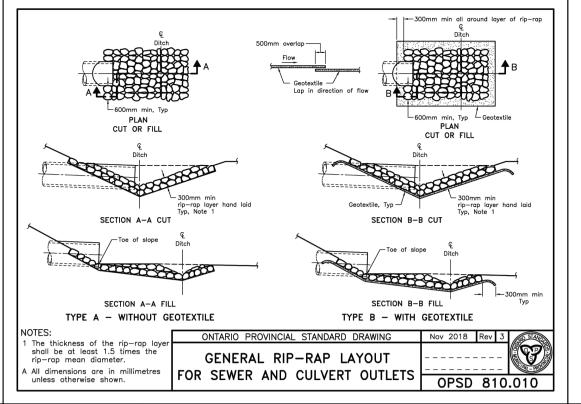
2 to 8%

DUMMY JOINT (OPTIONAL)

CONTRACTION JOINT (Note 4)

R5 L125mm R5 Note 1

TYPICAL SECTION



Tapered top See alternative C

Riser sections as required

Bench or sump as specified 300mm, Typ — dding

The sump is measured from the lowest invert.

Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.

Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.

ONTARIO PROVINCIAL STANDARD DRAWI

PRECAST CONCRETE

MAINTENANCE HOLE

1200mm DIAMETER

Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.

Pipe support according to OPSD 708.020.

For benching and pipe opening details, see OPSD 701.021.

All dimensions are nominal.

unless otherwise shown.

All dimensions are in millimetres

F For adjustment unit and frame installation, see OPSD 704.010.

**①**\_\_\_

SUMP DETAIL

**ALTERNATIVES** 

1.0°

A PRECAST SLAB BASE

1.0 ·

B CAST-IN-PLACE BASE

— ø1200 —

C PRECAST FLAT CAP

Nov 2014 Rev 5

0.3m Slope as specified

Subgrade or granular base as specified

Curb with gutter

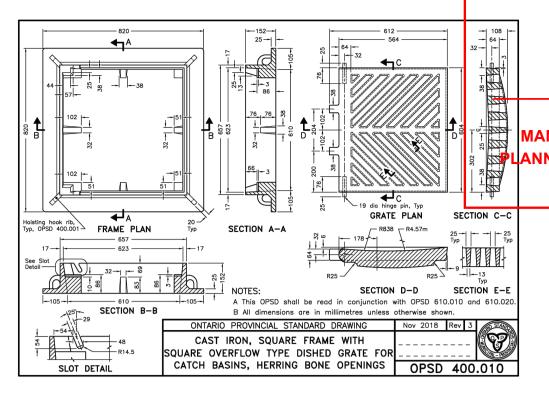
Sidewalk bay, Typ-

Dummy joints, Typ-

JOINT LAYOUT

OPSD 310.010

Boulevard





APPROVED

/IANAGER (A), DEVELOPMENT REVIEW EAST NNING, DEVELOPMENT & BUILDING SERVICES

**DEPARTMENT, CITY OF OTTAWA** 

By sevignyjo at 4:22 pm, Jan 22, 2025

SHALL BE CONSIDERED PRELIMINARY AND SHALL NOT BE USED AS A CONSTRUCTION DOCUMENT. THESE DRAWINGS ILLUSTRATES THE WORK TO BE DONE. THE ENGINEER IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK, OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THESE DRAWINGS EXPRESSED OR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL DETERMINE ALL CONDITIONS AT THE SITE AND SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THIS WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS ACKNOWLEDGEMENT OF THE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THE DRAWING. TI

CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO TH

OWNER-CONTRACTOR AGREEMENTS, CONDITIONS OF THE CONTRACT, T SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANY ONE SHALL BE BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY

BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER

CONFIRMS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS. THE CONTRACTOR CONFIRMS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF

WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS BSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS, CADD FILES OF OTHER ELECTRONIC MEDIA AND COPIED THERE OF FURNISHED BY THE ENGINEER
ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT

TO BE USED ON ANY OTHER PROJECT, INCLUDING REPEATS OF THE PROJECT

UNLESS THE REVISION TITLE IS "ISSUED FOR CONSTRUCTION", THESE DRAWINGS

CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ENGINEER.

DUE TO THESE CONDITIONS WILL BE FORTHCOMING. UNAUTHORIZED CHANGES:

CHANGES.

USE AND INTERPRETATION OF DRAWINGS

ELSEWHERE IN THE CONTRACT DOCUMENTS.

IN THE EVENT THE CLIENT, THE CLIENT'S CONTRACTORS OR SUBCONTRACTORS, OR ANYONE FOR WHOM THE CLIENT IS LEGALLY LIABLE MAKES OR PERMITS TO BE MADE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY LRL ASSOCIATES LTD. (LRL) WITHOUT OBTAINING LRL'S PRIOR WRITTEN CONSENT, THE CLIENT SHALL ASSUME FULL RESPONSIBILITY FOR THE RESULTS OF SUCH CHANGES. THEREFORE THE CLIENT AGREES TO WAIVE ANY CLAIM AGAINST LRI AND TO RELEASE LRI FROM ANY LIABILITY ARISING DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED

IN ADDITION, THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS LRL FROM ANY DAMAGES. LIABILITIES OR COST, INCLUDING REASONABLE ATTORNEY'S FEES AND COST OF DEFENSE, ARISING FROM SUCH CHANGES

IN ADDITION, THE CLIENT AGREES TO INCLUDE IN ANY CONTRACTS FOR CONSTRUCTION APPROPRIATE LANGUAGE THAT PROHIBITS THE CONTRACTOR OR ANY SUBCONTRACTORS OF ANY TIER FROM MAKING ANY CHANGES OR WRITTEN APPROVAL OF LRL AND THAT FURTHER REQUIRES THE CONTRACTOR TO INDEMNIFY BOTH LRL AND THE CLIENT FROM ANY LIABILITY OR COST ARISING FROM SUCH CHANGES MADE WITHOUT SUCH PROPER AUTHORIZATION.

GENERAL NOTES:

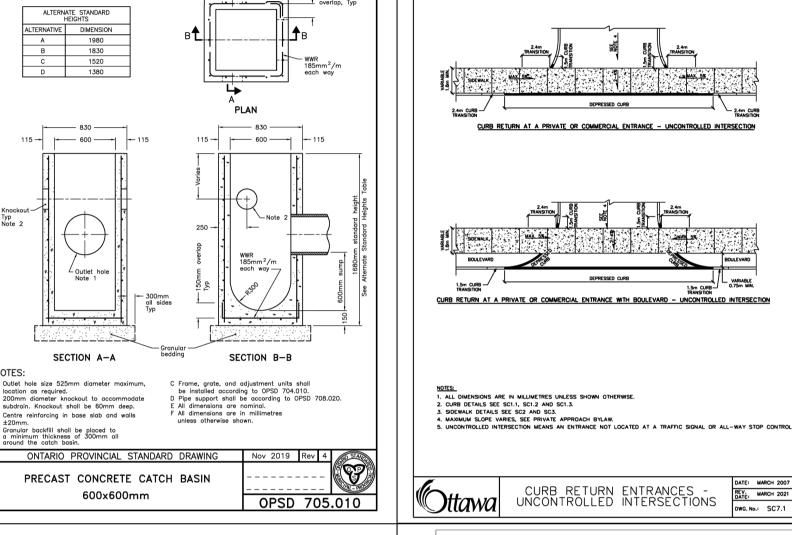
BEFORE START OF CONSTRUCTION.

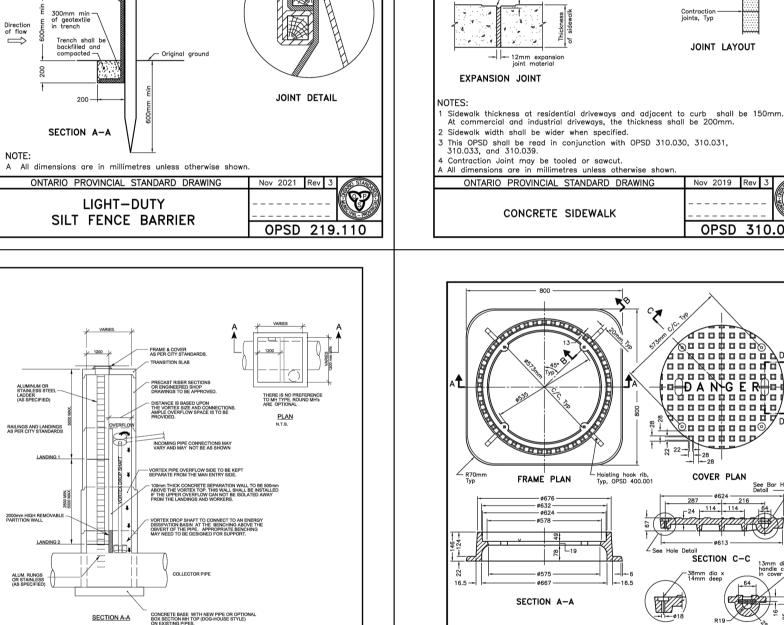
EXISTING SERVICES AND LITHLITES SHOWN ON THESE DRAWINGS ARE TAKEN FROM HE BEST AVAILABLE RECORDS, BUT MAY NOT BE COMPLETE OR TO DATE. CONTRACTOR SHALL VERIFY IN FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH THE UTILITY COMPANIES BEFORE DIGGING OR PERFORMING

CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS

THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS. SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS INCONSISTENCIES AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.

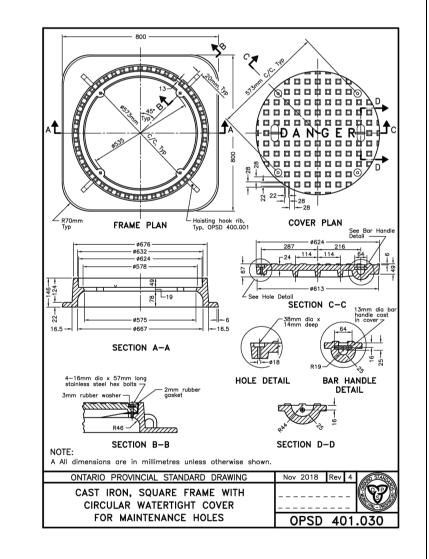


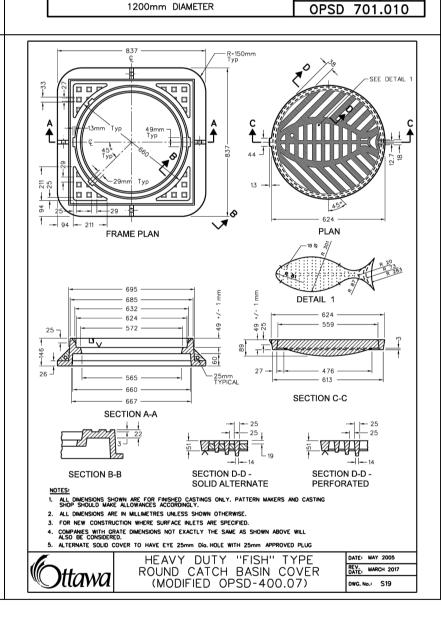


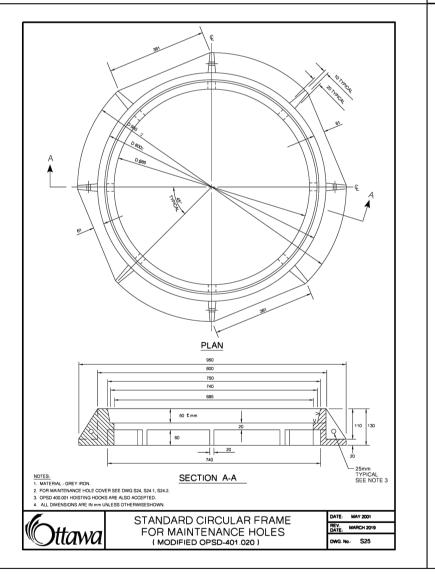
PERSPECTIVE VIEW

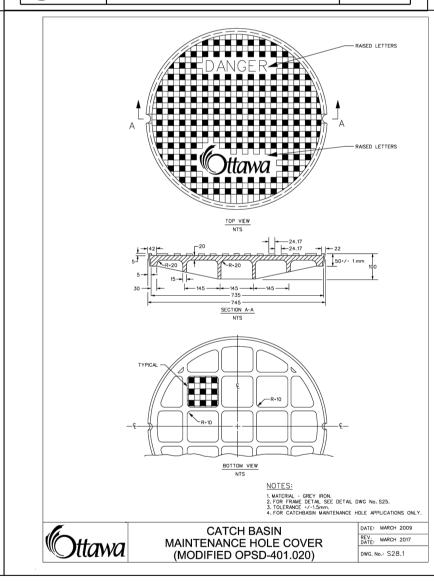
PLAN

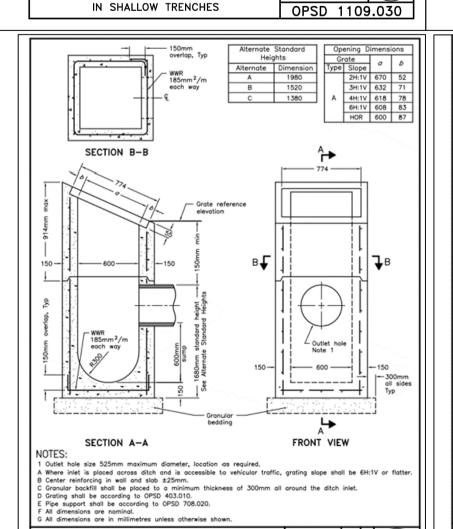
2.3m max, Typ



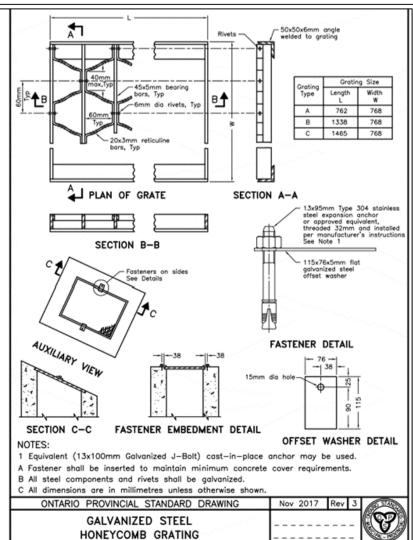








OPSD 705.030



OPSD 403.010

FOR DITCH INLETS

VORTEX DROP PIPES TO BE USED WHERE THE INVERTS BETWEEN INCOMING AND OUT GOING SEWERS ARE GREATER THAN 6 METRES.

DESIGNS SHALL BE REVIEWED BY THE CITY ON A CASE BY CASE BASIS.

6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

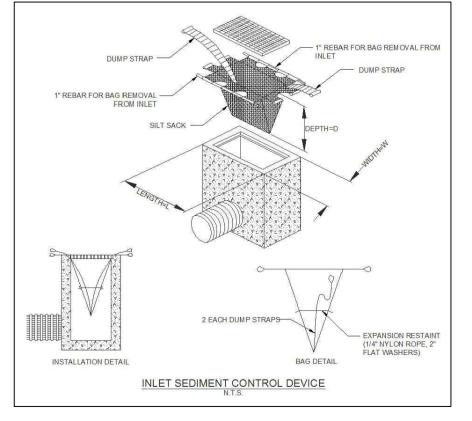
**Ittawa** 

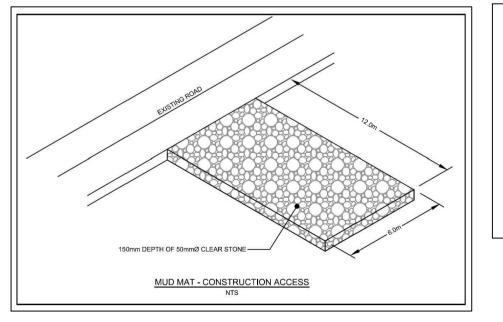
SAMPROVED REQULAR FRAME AND COVER TO BE USED WHERE VEHICULAR TRAFFIC TRAVELS OVER THE STRUCTURE . APPROVED LIGHT COVERS TO BE USED FOR RAISED APPLICATIONS . MH MAY NOT BE AS PER ABOVE BUT MUST HAVE A 1200mm DIAMETER STANDARD ACCESS CHAMBER SEPARATED FROM THE VORTEX CHAMBER VIA WALL. WORKER ACCESS OR MAINTENANCE IS NOT TO BE COMPROMISED. THE MI CAN BE SQUARE OR ROUND.

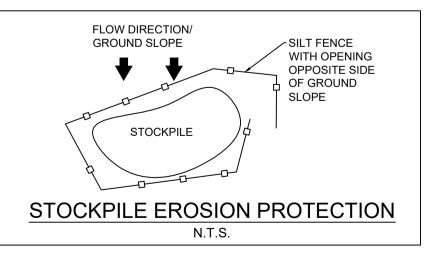
OBTAIN VORTEX INFORMATION AND DESIGN CRITERIA FROM THE SUPPLIER AS REQUIRED. DROP STRUCTURE CAPACITY TO BE CLEARLY MARKED ON THE UNIT. PRODUCT MATERIAL AND STRAPPING AS PER THE SUPPLIER SPECS.

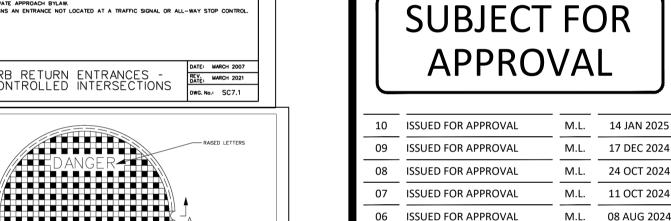
WITH VORTEX DROP PIPE

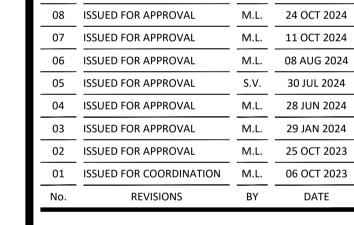
GENERAL ARRANGEMENT













NOT AUTHENTIC UNLESS SIGNED AND DATED



www.lrl.ca I (613) 842-3434

5430 Canotek Road | Ottawa, ON, K1J 9G2

TRIM WORKS DEVELOPMENT LTD			
ESIGNED BY:	DRAWN BY:	APPROVED BY:	
M.L.	M.L.	M.B.	
ROJECT			

PLAZA TRIM ROAD DEVELOPMENT 1280 TRIM RD, OTTAWA, ON

CONSTRUCTION DETAIL PLAN

PROJECT NO 230202

APRIL 2023

C901

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