

CONCRETE FOOTING

CONCRETE FOOTING

COMPONENTS GENERALLY LOCATED ALONG FRONT SIDE OF HOUSE

___ FLAP

SECTION A-A

JOINTS BETWEEN THE SLEEVE AND THE BACKWATER VALVE AND THE FLOOR SHALL BE WATERTIGHT.

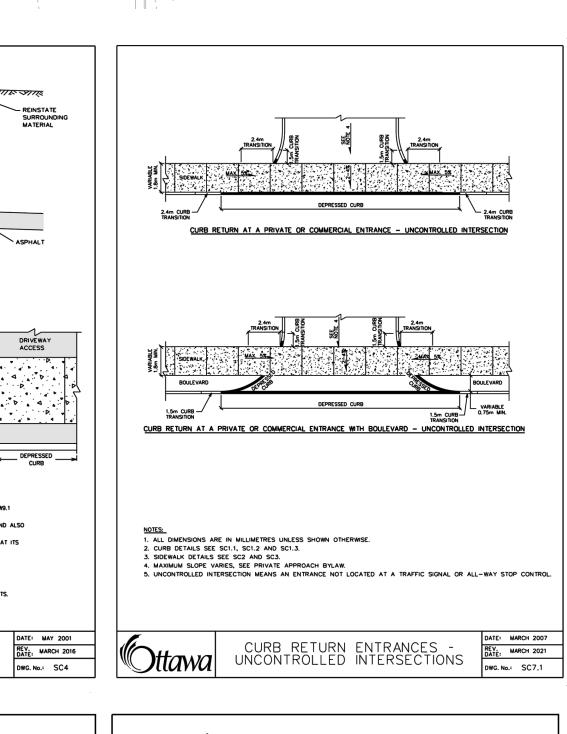
STORM BACKWATER VALVE

FOUNDATION DRAIN BACKWATER

VALVE INSTALLATION

■ STORM BACKWATER VALVE

CONCRETE FOUNDATION WALL



#

CLEANOUT -

A **—**

CONCRETE FOOTING

v. · . A . v. b

FLOW THE PLANT OF THE PLANT OF

SANITARY BACKWATER VALVE

. BACKWATER VALVE, CLEAN-OUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING/WALL DURING THE PROCESS

JOINTS BETWEEN THE ACCESS BOX SECTIONS AND THE ACCESS BOX AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

SANITARY BACKWATER

VALVE INSTALLATION TYPE 1

- NORMALLY OPEN FLAP

CONCRETE FOUNDATION WALL

COMPONENTS GENERALLY LOCATED ALONG FRONT SIDE OF HOUSE

NORMALLY OPEN FLAP

SANITARY BACKWATER VALVE

BACKWATER VALVE, CLEANOUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING/WALL DURING THE PROCESS

SANITARY BACKWATER

VALVE INSTALLATION TYPE 2

2. JOINTS BETWEEN CLEANOUT AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

CONCRETE FOOTING

CONCRETE FOUNDATION WALL

1. MUD MAT TO BE INSTALLED AT ALL CONSTRUCTION ENTRANCES

In the case that the access crosses a culvert or ditch, sediment fencing should be installed along the edges of the access to prevent sediment from being washed way with runoff.

4. THE GRANULAR MATERIAL WILL REQUIRE PERIODIC REPLACEMENT AS IT BECOMES CONTAMINATED BY VEHICLE TRAFFIC.

STORM INLETS BOTH ON AND IN THE PROXIMITY OF THE SITE SHALL BE PROTECTED WITH INLET CONTROL MEASURES PRIOR TO ROAD CLEANING ACTIVITIES.

ROADSIDE CATCH BASIN PROTECTION DETAIL: TERRAFIX SILTSACK

- CATCH BASIN GRATE

1) TO BE USED UNDER APPROPRIATE

THE CONSTRUCTION PERIOD.

2) SILTSACK SHOULD BE INSPECTED

EVERY MAJOR STORM.

- CATCH BASIN

EVERY 2-3 WEEKS AND AFTER

3) TO BE INSTALLED AND MAINTAINED BY

MANUFACTURES RECOMMENDATIONS

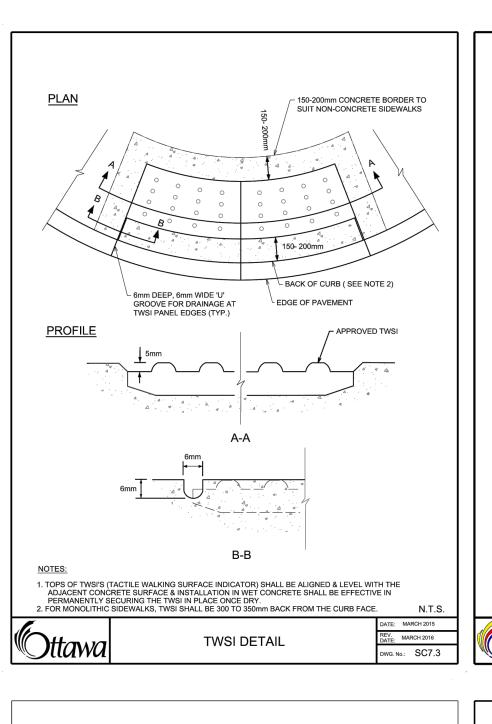
DRAINAGE CIRCUMSTANCES, DURING

-INSERT 1" REBAR FOR BAG REMOVAL FROM INLET

5. SEDIMENT SHALL BE CLEANED FROM PUBLIC ROADS AT THE END OF EACH DAY.

2. MUD MAT TO EXTEND FULL WIDTH OF ENTRANCE

MUD MAT ENTRANCE DETAIL SCALE: N.T.S.



GRANULAR BACKFILL

TI INSULATION

FOR 150 - 400mm (NOMINAL DIAMETER) WATERMAINS, WHERE THE DEPTH OF COVER IS LESS THAN 2400mm

2. IN PROXIMITY OF MAINTENANCE HOLES, CULVERTS, CATCHBASINS, ETC., INSULATION SHALL BE PLACED PER DETAIL W23

THERMAL INSULATION FOR

WATERMAINS IN SHALLOW

TRENCHES

REV. MARCH 2013

1. INCREMENTS OF THICKNESS SHALL BE ADJUSTABLE TO 25mm

4. STAGGER JOINTS OF MULTIPLE SHEETS.

3. DEPTH OF COVER LESS THAN 1200mm REQUIRES SPECIAL DESIGN

5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE

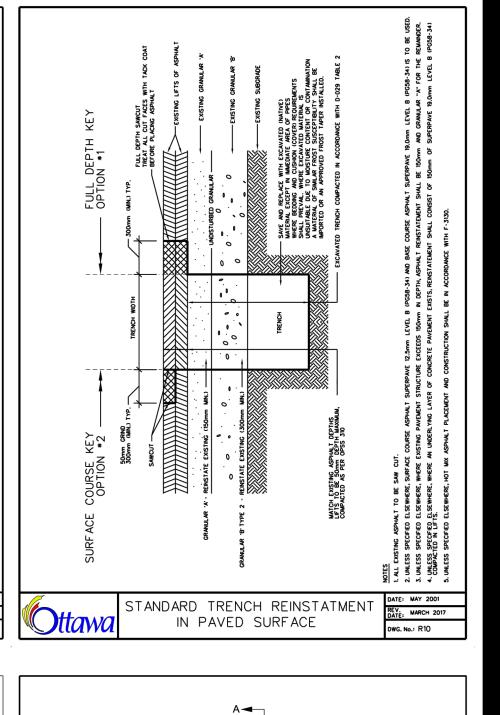
TI = (2400 - H) MINIMUM 50mm

TI = THICKNESS OF INSULATION (mm) H = DEPTH OF COVER

W = WIDTH OF INSULATION (mm)

D = O.D. OF PIPE (mm)

W = D + 300



SECTION A - A

WATERMAIN CROSSING

BELOW SEWER

: MARCH 2013

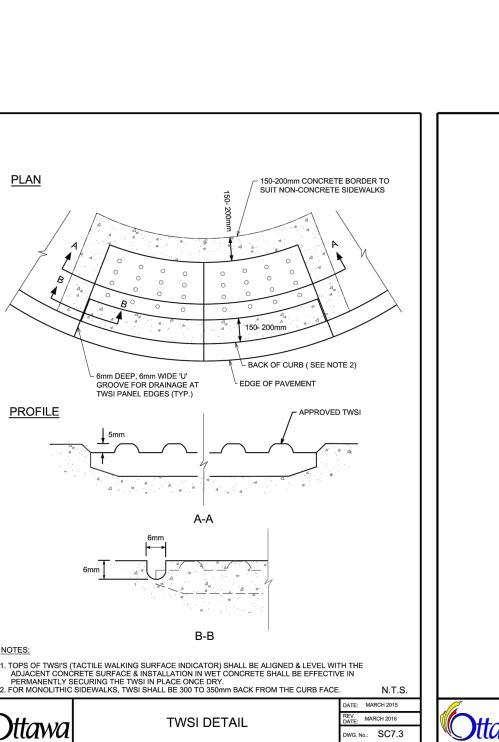
DWG. No.: W25

GRANULAR BEDDING -

1. BARREL TO INVERT SEPARATION (D) SHALL BE 500mm MINIMUM.

. CONCRETE FOR THRUST BLOCKS SHALL BE 20 MPa.

3. FOR 300mm (NOMINAL) AND 400mm (NOMINAL) MAINS, BENDS SHALL BE MAX. 22° 30'.



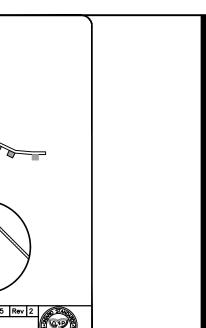


PLATE DIMENSIONS TO BE MIN. 900mm x 100mm

INSERT DOWEL TO SIT FLUS

LOW PROFILE PLATE

BASE TO BE PAINTED LUMINOUS

2.3m max, Typ

Trench to be backfilled and compacted —

300mm min 1 200 in trench

SECTION A-A

LIGHT DUTY SILT FENCE BARRIER SCALE: N.T.S.

SAFETY SIGNS TO BE SECURED TO FENCE SECTIONS ON THE NON CONSTRUCTION SIDE AS REQUIRED BY PHASING PLAN.

CONSTRUCTION FENCE DETAIL

WEBSITE OF POSSIBLE SUPPLIER OF APPROVED DETAILS WWW.MODU-LOC.CA

400 - 1331 Clyde Avenue Ottawa ON

Tel. 613.722.4420

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Legend

PROPOSED SILT FENCE BOUNDARY AS PER OPSD 219.110 —— PROPOSED CONSTRUCTIN FENCE AS PER DETAIL.

PROPOSED STRAW BALE LOCATION AS PER OPSD 219.100 PROPOSED CATCH BASIN PROTECTION AS PER DETAIL. PROPOSED MUD MAT LOCATION

PROPOSED VALVE BOX PROPOSED VALVE CHAMBER PROPOSED FIRE HYDRANT

PROPOSED SANITARY SEWER MANHOLE PROPOSED STORM SEWER MANHOLE PROPOSED CATCHBASIN

Best Management Practices

CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROLS (BEST MANAGEMENT PRACTICES) DURING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES. TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS. DURING ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

- LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
- REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE.
- MINIMIZE AREA TO BE CLEARED AND GRUBBED.
- PROTECT EXPOSED SLOPES WITH PLASTIC OR SYNTHETIC MULCHES.
- INSTALL CATCH BASIN INSERTS OR EQUIVALENT IN ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES AND IN ALL EXISTING CATCH BASINS THAT WILL RECEIVE RUN-OFF FROM THE SITE.
- A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY STOCKPILES OF MATERIAL TO BE USED OR REMOVED FROM SITE. (LOCATION TO BE DETERMINED)
- A VISUAL INSPECTION SHALL BE DONE DAILY ON SEDIMENT CONTROL MEASURES AND
- CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OFF SITE AS PER THE REQUIREMENTS OF THE CONTRACT. SEDIMENT CONTROL BARRIERS MAY ONLY BE REMOVED TEMPORARILY WITH APPROVAL OF
- CONTRACT ADMINISTRATOR TO ACCOMMODATE CONSTRUCTION OPERATIONS. ALL AFFECTED BARRIERS MUST BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (>10mm) UNLESS A NEW DEVICE HAS BEEN INSTALLED TO PROTECT EXISTING STORM AND SANITARY SEWER SYSTEMS, OR DOWNSTREAM WATERCOURSES.
- NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING
- CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE(S) IS NO LONGER REQUIRED. NO CONTROL MEASURES SHALL BE PERMANENTLEY REMOVED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENTS AS REQUIRED.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
- CONTRACTOR SHALL INSTALL MUD MATS AT ENTRANCE TO THE SITE.

STORMWATER SWALES TO BE COVERED WITH HYDRO-SEED AND MULCH.

REVISED AS PER CITY COMMENTS / SITE PLAN MF MJS AMP 21.02.17 ISSUED TO CITY FOR SPA Revision By Appd. YY.MM.DD

File Name: 160401596-DB

Permit-Seal



 MJS
 MF
 MJS
 21.01.07

 Dwn.
 Chkd.
 Dsgn.
 YY.MM.DD

Client/Project **BRIGIL HOMES**

> 2829 DUMAURIER AVENUE 40 STOREY APARTMENT BUILDING OTTAWA, ON, CANADA

EROSION CONTROL PLAN

AND DETAIL SHEET

Project No. Scale 160401596 Drawing No. Revision

ORIGINAL SHEET - ARCH D

Approved 22.5° radius — bends as required

Bedding and cover — as specified

5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

Slope 1% min 2% min desirable —

Bedding and cover as specified

CONNECTION WITHOUT VERTICAL RISER

— Note 1

SEWER SERVICE CONNECTIONS

FOR FLEXIBLE MAIN SEWER PIPE

(MODIFIED ORD 1000 PIPE DATE: MARCH 2013

VERTICAL RISER

(MODIFIED OPSD-1006.020)

1. ALL DIAMETERS OF SERVICE CONNECTIONS TO FLEXIBLE MAIN SEWER SHALL BE MADE USING APPROVED TEE OR WYE FITTINGS.

2. SANITARY SERVICES TO BE 135mm AND STORM SERVICES TO BE 100mm FOR NEW RESIDENCES UNLESS SPECIFIED OTHERWISE. SERVICE PIPE AND RADIUS BENDS TO BE APPROVED CSA B182.2, SDR28 PRODUCTS UNLESS SPECIFIED OTHERWISE.

3. APPROVED CONTROLLED SETTLEMENT JOINTS OPTIONAL FOR SERVICE CONNECTIONS TO MAIN SEWERS UP TO 5m DEEP, WHERE APPROVED, CONNECTIONS TO SEWERS OVER 5m DEEP REQUIRE APPROVED CONTROLLED SETTLEMENT JOINTS.

4. CAP OR PLUG AT THE PROPERTY LINE SHALL BE ADEQUATELY BRACED TO WITHSTAND TESTING PRESSURE.

Slope 1% min 2% min desirable——

Note 2

PLAN # 18503