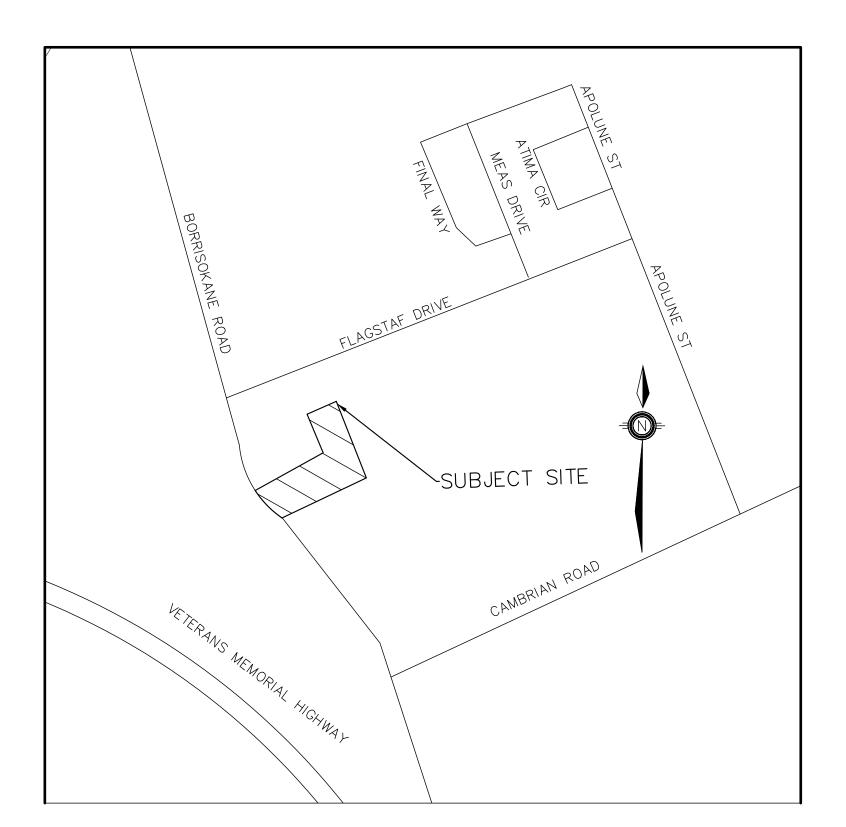
# KOREAN COMMUNITY CHURCH 3555 BORRISOKANE ROAD, CITY OF OTTAWA

# DRAWING LIST

- ND-1 NOTES AND DETAILS (1 OF 3)
- ND-2 Notes and Details (2 of 3)
- ND-3 Notes And Details (3 of 3)
- SG-1 SITE GRADING PLAN
- SG-2 FUTURE BUILDING ADDITION GRADING PLAN
- SS-1 SITE SERVICING PLAN
- SS-2 FUTURE BUILDING ADDITION SERVICING PLAN
- STM-1 PRE-DEVELOPMENT STORM CATCHMENT PLAN
- STM-2 POST-DEVELOPMENT STORM CATCHMENT PLAN
- EP-1 EROSION PROTECTION PLAN



CITY OF OTTAWA
110 LAURIER AVE W.
OTTAWA. ONTARIO
K1P 1J1

OTTAWA KOREAN COMMUNITY CHURCH 384 ARLINGTON AVE.
OTTAWA ONTARIO,
K1R 6Z5



#### <u>DRAWINGS</u>

- A. THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE SPECIFIC DETAIL DWGS.
- B. THE STANDARD DRAWINGS OF THE CITY OF OTTAWA,
  ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS,
  (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD)
  CONSTITUTE PART OF THE PLANS OF THIS CONTRACT.
- C. THE STANDARD DRAWINGS INCLUDED WITH THESE PLANS ARE PROVIDED FOR CONVENIENCE ONLY AND ARE NOT TO BE CONSTRUED TO BE A COMPLETE SET FOR THE PURPOSE OF THE CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.

## 2. MEASUREMENTS

- A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.
- B. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

#### 3 GENERA

- EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AND THEIR LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE WISHES WITH THE UNDERSTANDING THAT THE OWNER DISCLAIMS ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY. THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- B. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- C. GRANULAR MATERIAL, USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- D. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE ENGINEER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 200mm OF APPROVED TOPSOIL AND NURSERY SOD UNLESS NOTED OTHERWISE.

## 4. SANITARY & STORM SEWERS

- A. STORM SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD-802.010, (GRAN. 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD-802.030 OR 802.031 CLASS B (GRAN. 'A' BEDDING MATERIAL) FOR RIGID PIPES UNLESS OTHERWISE APPROVED BY THE CITY OF OTTAWA.
- B. PRECAST MANHOLES SHALL BE 1200mm DIAMETER UNLESS OTHERWISE SPECIFIED, AND SHALL BE IN ACCORDANCE WITH OPSD-701.010, FRAME AND COVER SHALL BE IN ACCORDANCE WITH OPSD-401.010.
- C. SINGLE CATCHBASINS TO BE 600mm SQUARE PRECAST CONCRETE TO OPSD-705.010. FRAME AND GRATE TO OPSD-400.020.
- D. PLACE ALL CATCHBASIN LATERALS AT 2% GRADE UNLESS OTHERWISE NOTED PIPE SIZE MINIMUM 250mm DIAMETER SINGLE, 300mm DIAMETER DOUBLE.
- E. FOR ALL PVC PIPES CONNECTING INTO CONCRETE MH's AND CB's USE PVC MH ADAPTER COATED WITH SAND.
- F. ALL CONNECTIONS TO THE STORM MAIN SHALL BE MADE WITH A STOM MANHOLE OR APPROVED FACTORY TEE CONNECTION AS PER OPSD-701.10 OR 708.03.
- G. MANHOLE BENCHING SHALL CONFORM WITH OPSD-701.021.
- H. MAINTENANCE HOLE TOPS (FRAMES) AND CATCH BASIN (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACED. ALL ADJUSTMENT WILL BE IN ACCORDANCE WITH OPSD-704.010.
- I. ALL PIPE HANDLING INSTALLATIONS MUST BE IN STRICT COMPLIANCE WITH MANUFACTURERS INSTALLATION GUIDES AND THE O.C.P.A. OR UNIBELL GUIDELINES.
- J. ALL SEWERS WITH LESS THAN 1.2m OF COVER MUST BE INSULATED.
- K. PVC STORM PIPE MATERIAL TO BE PVC SDR 35, CERTIFIED TO C.S.A. STANDARDS 182.2 AND 182.4 LATEST AMENDMENT.
- L. CONCRETE STORM SEWER PIPE TO BE EQUAL TO CSA SPECIFICATION A257.1 (LATEST AMENDMENT)
- M. SANITARY MAINTENANCE HOLE SHALL HAVE WATERTIGHT GRAME AND COVER IN PONDING AREAS AS PER OPSD 401.030
- N. SERVICE CONNECTIONS AND UTILITY CUTS TO BE BACKFILLED WITH
- UNSHRINKABLE FILL.

  O. SEWER PIPES TO BE BACKFILLED UP TO 300mm ABOVE TOP, WITH A

GRANULAR MATERIAL TO AIDE COMPACTION IN TIGHT SPACES WITHOUT

## 5. WATERMAIN

- A. WATERMAIN SHALL BE CONSTRUCTED TO THE LATEST CITY OF OTTAWA STANDARDS, AND OR THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS)
- B. ALL WATER SERVICES LESS THAN OR EQUAL TO 50mm DIA SHALL BE TYPE "K" COPPER.
- C. WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17. UNLESS SPECIFIED OTHERWISE
- D. VALVE BOXES SHALL BE INSTALLED PER CITY OF OTTAWA STD W24.
- E. THRUST BLOCKS FOR WATERMAINS TO BE INSTALLED PER CITY OF OTTAWA STD. W25.3 AND W25.4.
- F. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TEMPORARY CAPS, PLUGS, BLOW-OFFS, AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAIN
- G. WATERMAIN CROSSING OVER AND BELOW SEWERS SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STD. W25,2 AND W25.
- H. WATER SERVICES ARE TO BE INSULATED PER CITY STD. W23 WHERE SEPARATION BETWEEN SERVICES AND MAINTENANCE HOLES ARE LESS THAN
- I. THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/UTILITY IS 0.5m AS PER MOE GUIDELINES.
- I. ALL WATERMAINS SHALL HAVE A MINIMUM COVER OR 2.4M, OTHERWISE THERMAL INSULATION IS REQUIRED AS PER STD DWG W22.
- K. FIRE HYDRANT INSTALLATION AS PER STD DWG W19, ALL BOTTOM OF HYDRANT FLANGE ELEVATIONS TO BE INSTALLED 0.10M ABOVE PROPOSED FINISHED GRADE AT HYDRANT; FIRE HYDRANT LOCATION AS PER STD DWG
- L. ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A PLUG AND 50MM BLOW OFF UNLESS OTHERWISE NOTED.
- M. ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES UNLESS OTHERWISE DIRECTED. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED.

## PAVEMENT STRUCTURE

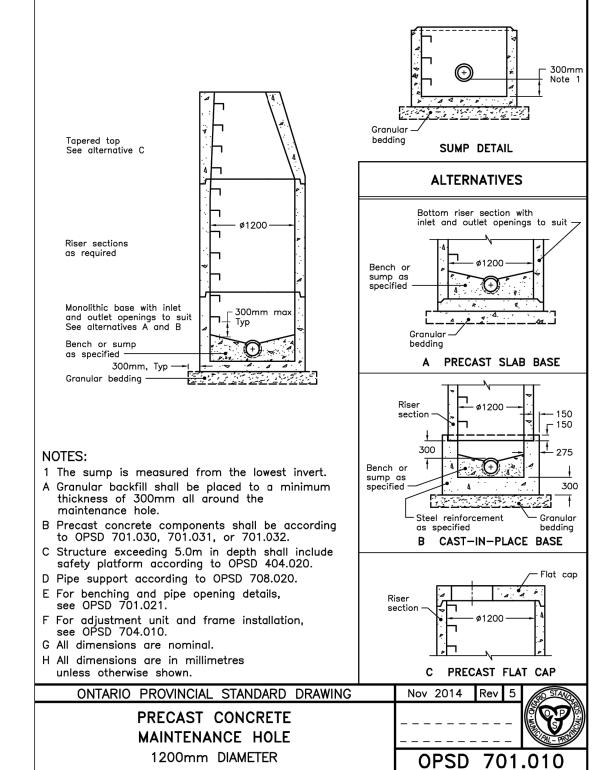
REFERENCED FROM GEOTECHNICAL REPORT COMPLETED BY PATERSON GROUP DATED SEPTEMBER 27, 2023

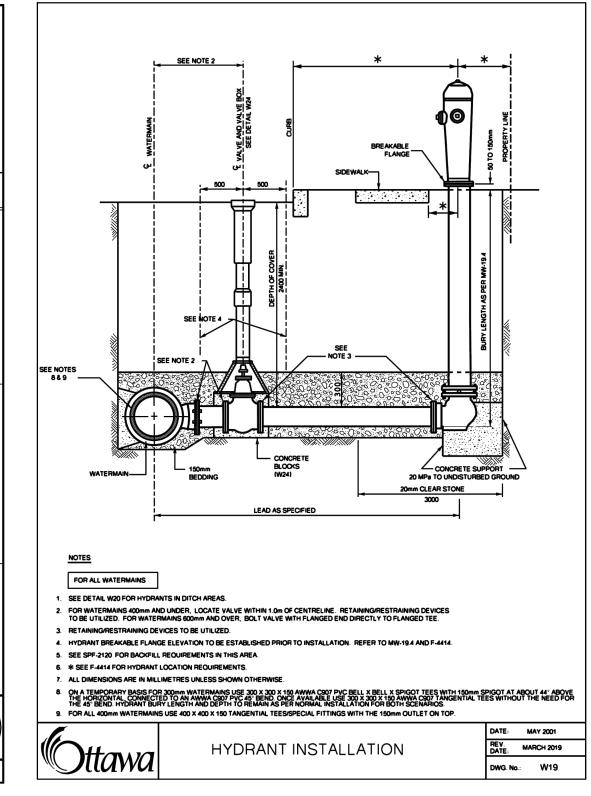
#### CAR PARKING AREAS

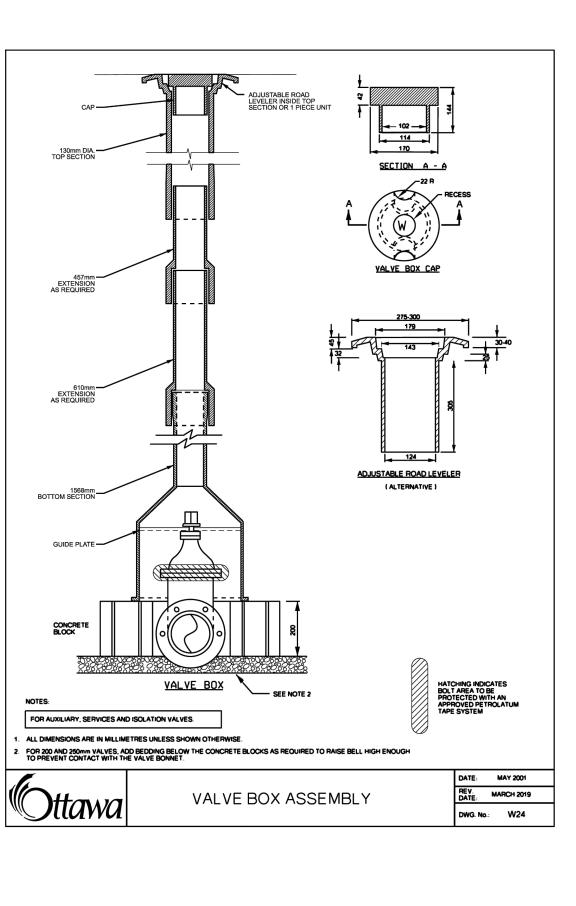
50mm SURFACE COURSE — HL3 ASPHALT 150mm GRANULAR BASE — OPSS GRAN A CRUSHED STONE 300mm GRANULAR "B" SUBBASE TYPE 2

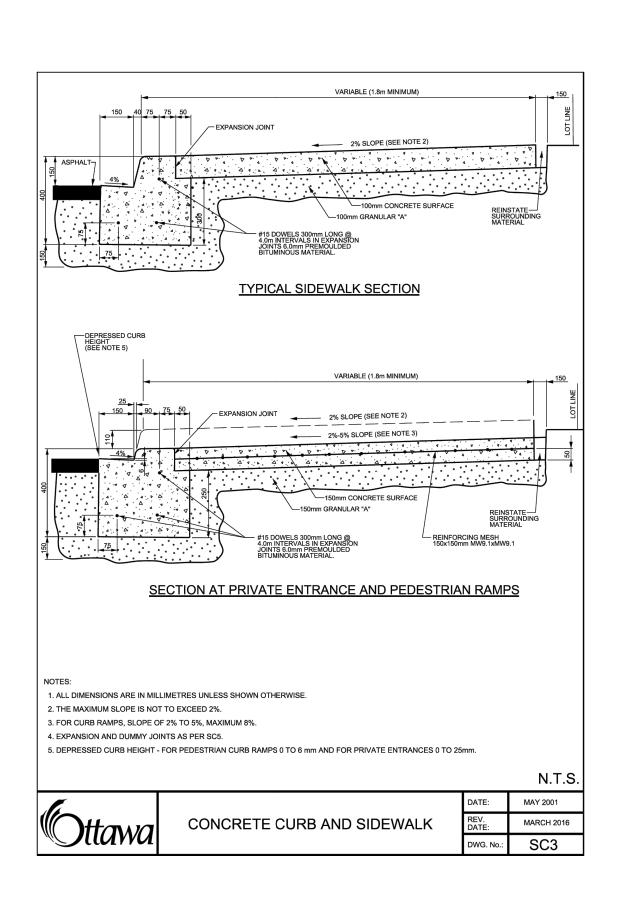
#### FIRE ROUTE

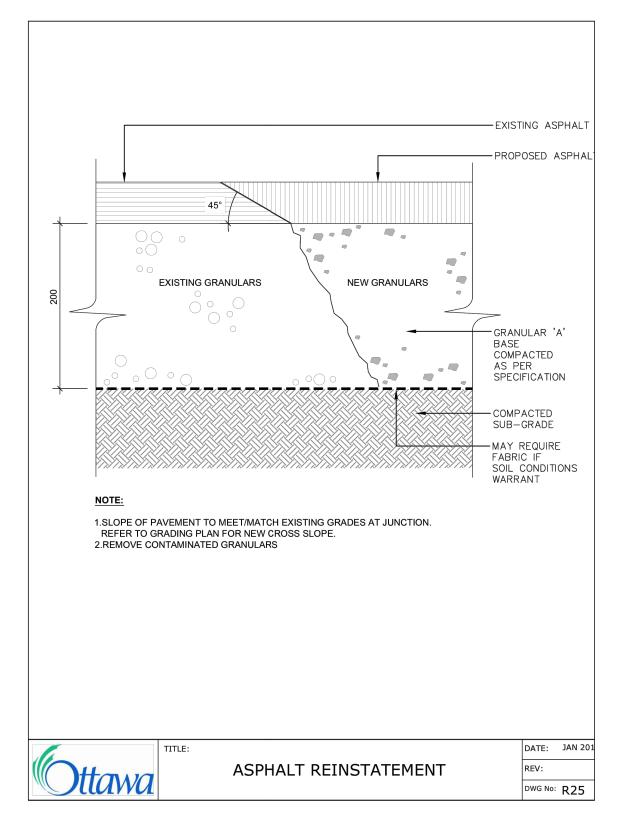
40mm SURFACE COURSE — HL3 ASPHALT 50mm BASE COURSE — HL8 ASPHALT 150mm GRANULAR BASE — OPSS GRAN A CRUSHED STONE 400mm GRANULAR "B" SUBBASE TYPE 2

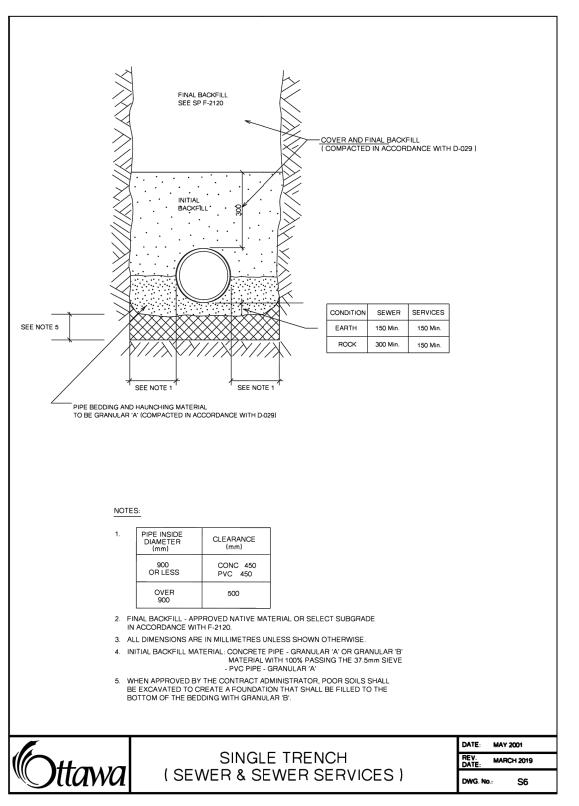


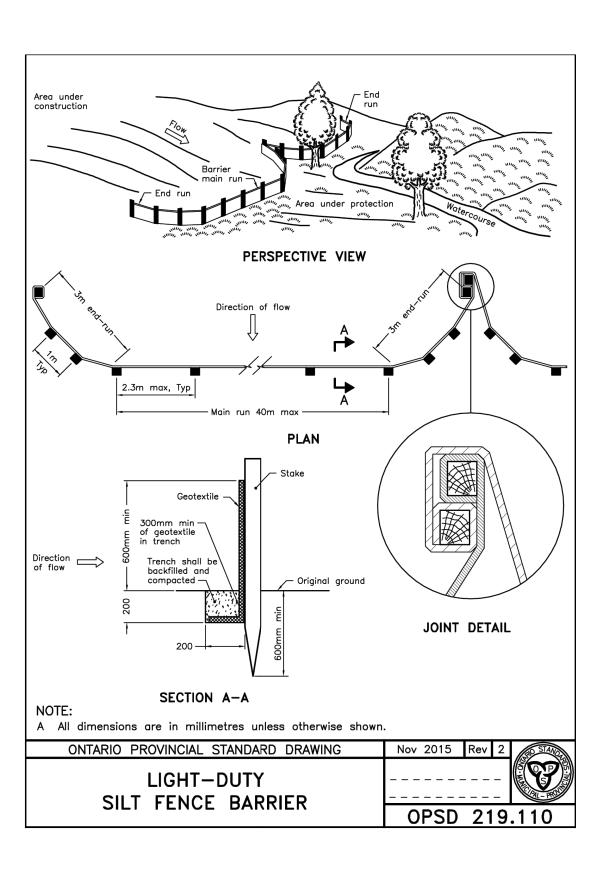












06.	PHASE 1 BUILDING LAYOUT	02/11/25	JM
05.	UPDATED SNOW STORAGE	10/16/24	JM
04.	AS PER 3rd SUBMISSION COMMENTS	10/04/24	JM
03.	AS PER UPDATED SITE PLAN	07/04/24	JM
02.	AS PER 2nd SUBMISSION COMMENTS	02/12/24	JM
NO.	REVISION NOTE	DATE	BY

BENCHMARK

SPIKE IN UTILITY POLE LOCATED ON THE SE CORNER OF THE BORRISOKANE RD.
AND PROMENADE FLAGSTAFF DR. INTERSECTION.
ELEV: 92.96

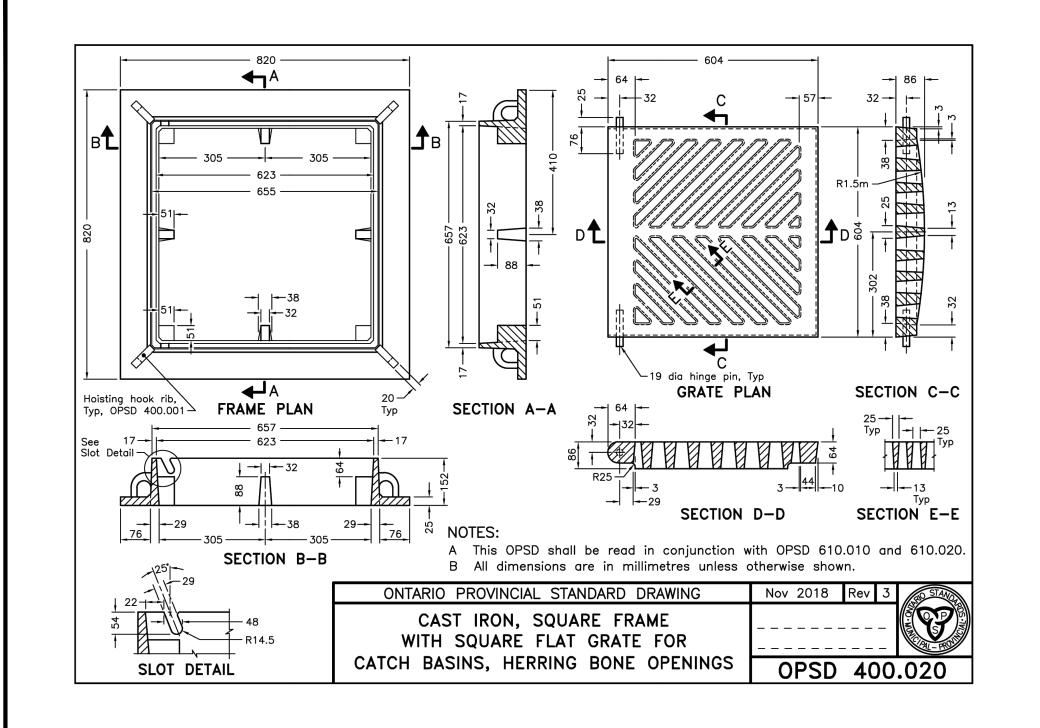


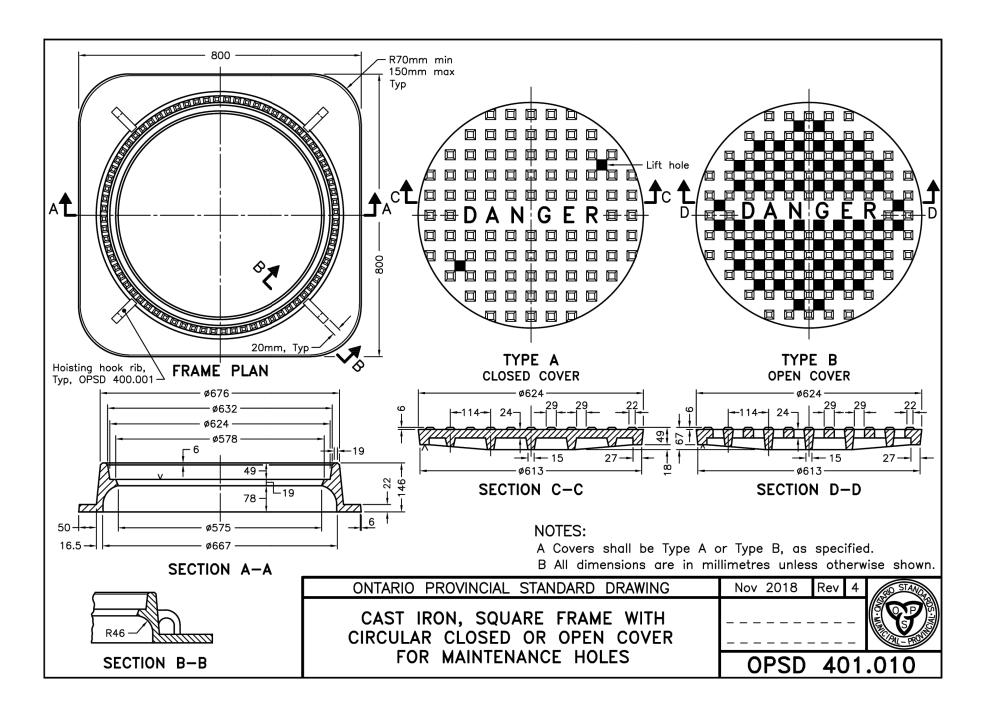
KOREAN COMMUNITY CHURCH 3555 BORRISOKANE ROAD CITY OF OTTAWA

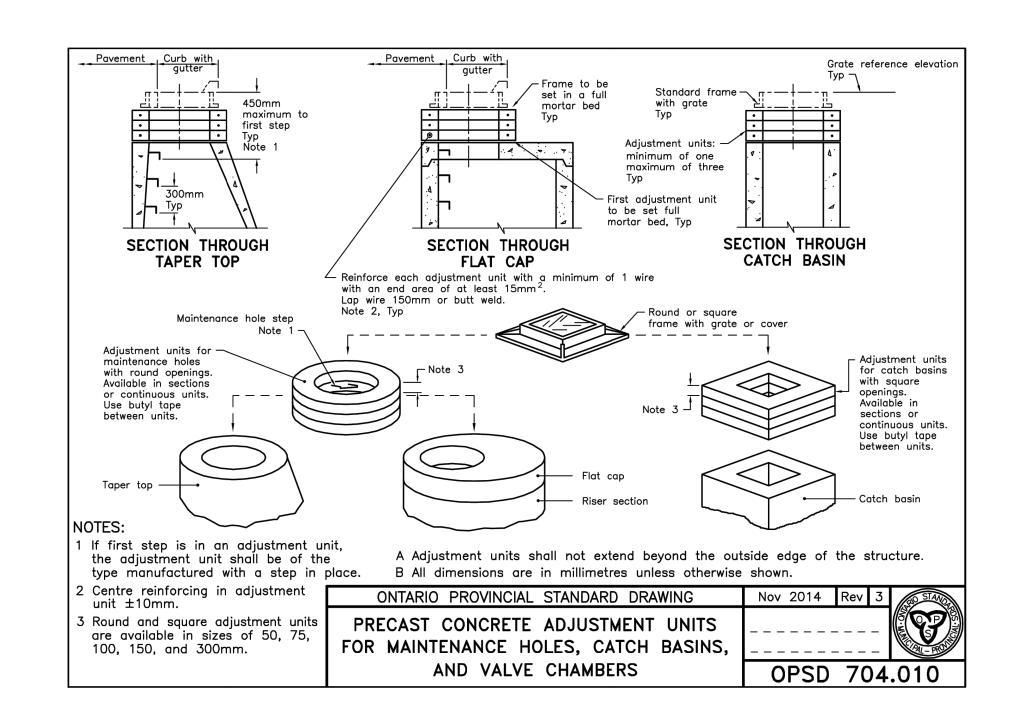
NOTES AND DETAILS
(1 OF 3)

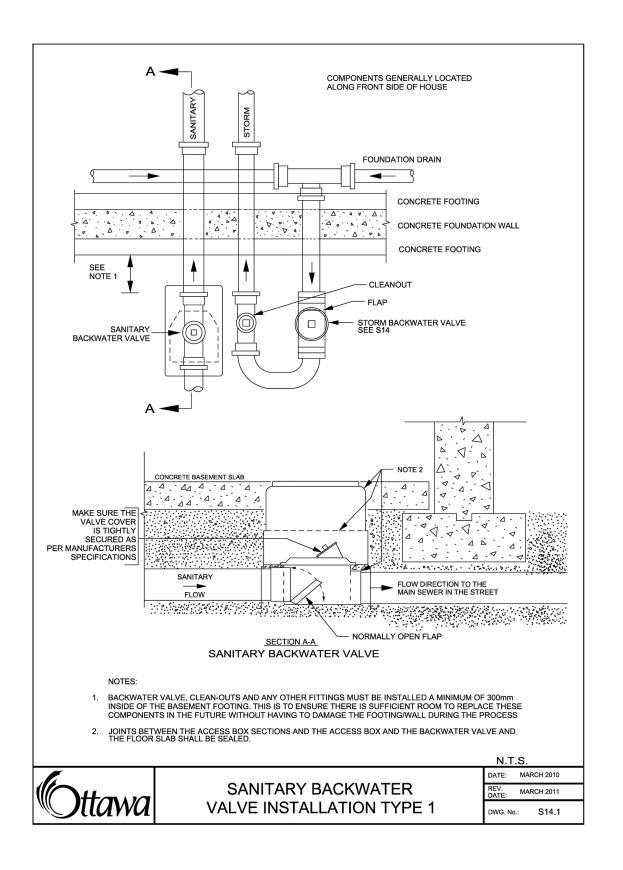


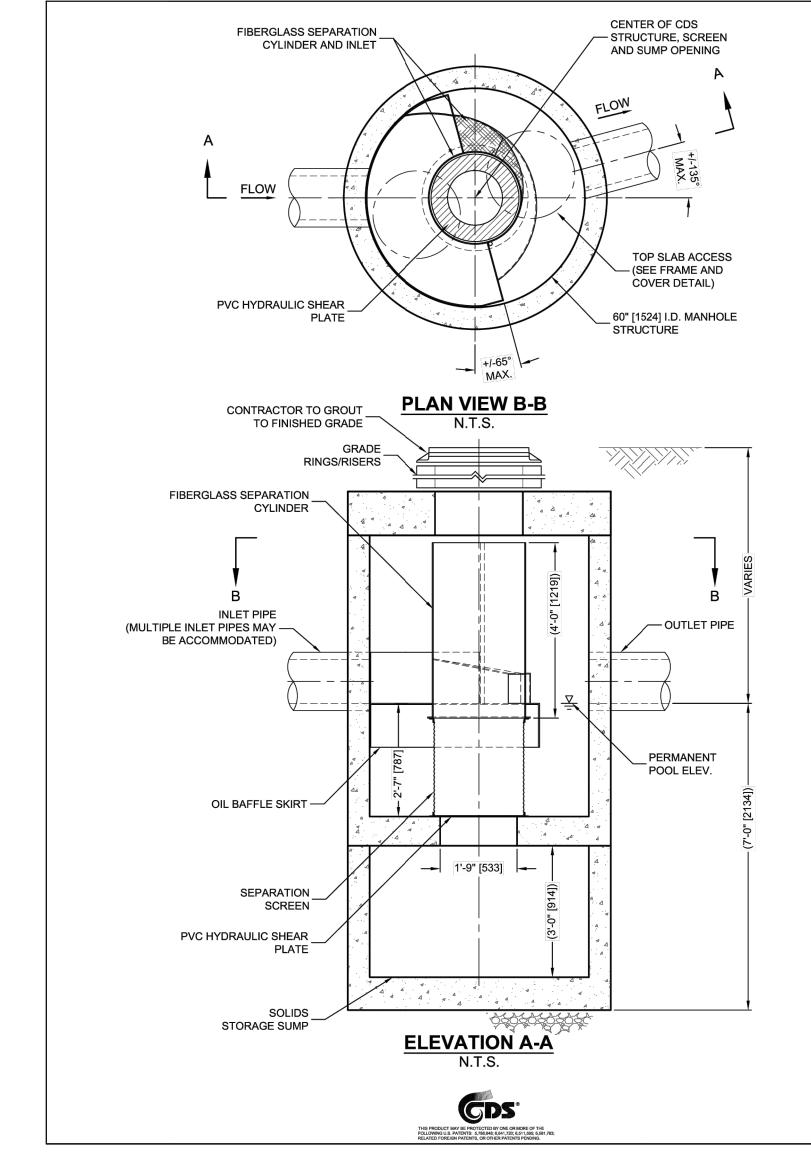
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DE	ESIGNED BY	NW/MWD	HORIZ SCALE	N/A	PROJECT #	22099
DF	RAWN BY	JM	VERT SCALE	N/A	DRAWING #	ND-1
CH	HECKED BY	MWD	DATE	JUNE 2023	REVISION #	6

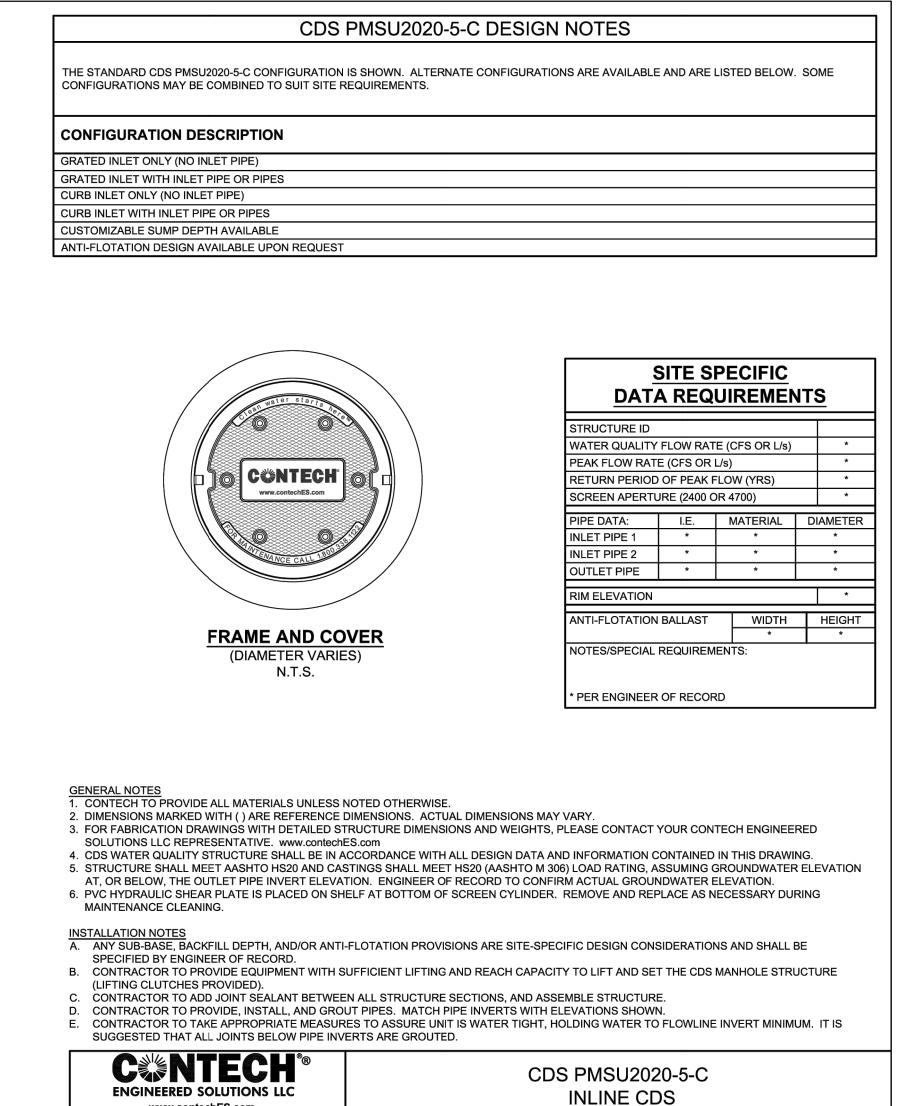












06. PHASE 1 BUILDING LAYOUT 02/11/25 JM

05. UPDATED SNOW STORAGE 10/16/24 JM

04. AS PER 3rd SUBMISSION COMMENTS 10/04/24 JM

03. AS PER UPDATED SITE PLAN 07/04/24 JM

02. AS PER 2nd SUBMISSION COMMENTS 02/12/24 JM

NO. REVISION NOTE DATE BY

SPIKE IN UTILITY POLE LOCATED ON THE SE CORNER OF THE BORRISOKANE RD. AND PROMENADE FLAGSTAFF DR. INTERSECTION. ELEV: 92.96



STANDARD DETAIL

www.contechES.com

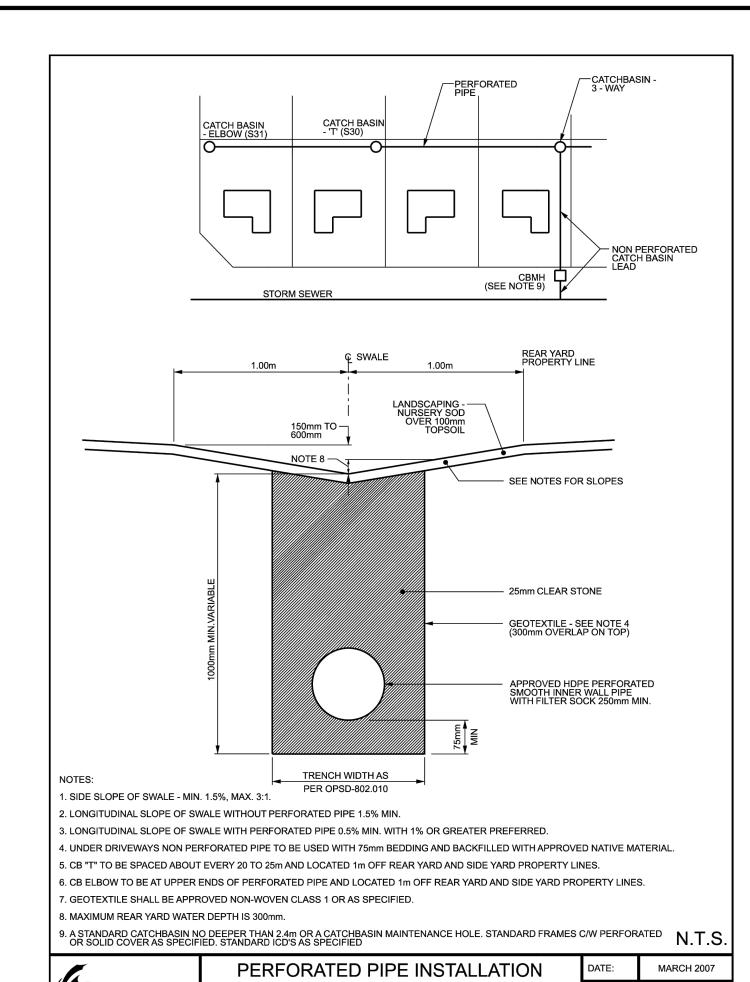
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 800-338-1122 513-645-7000 513-645-7993 FAX

> KOREAN COMMUNITY CHURCH 3555 BORRISOKANE ROAD CITY OF OTTAWA

> > NOTES AND DETAILS
> > (2 OF 3)

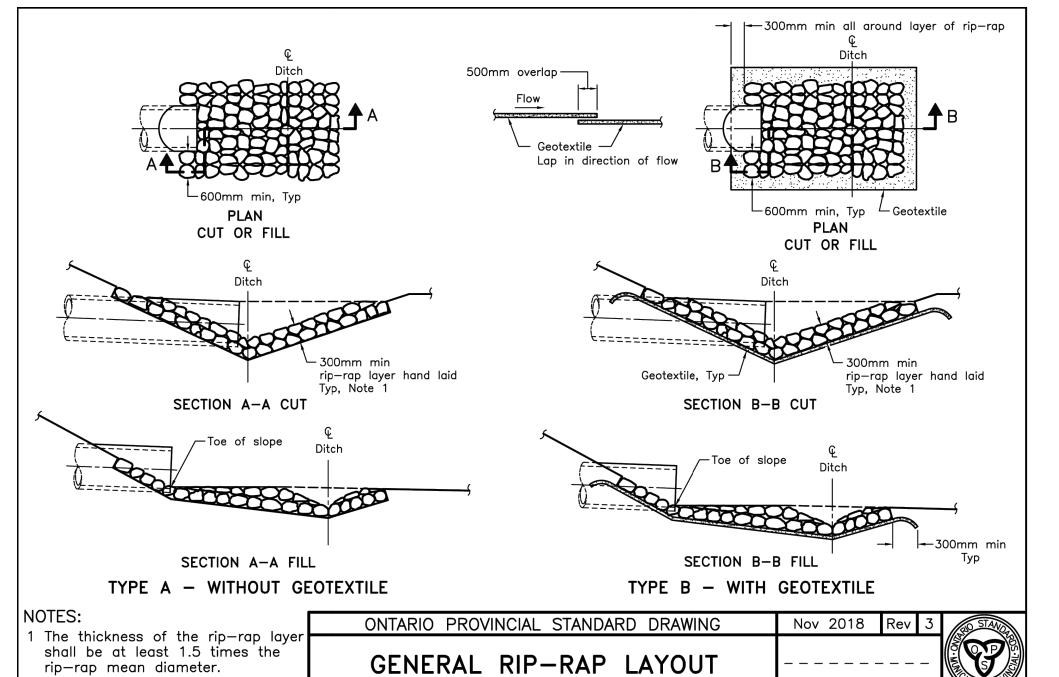
PEARSON
ENGINEERING PEARSONENG.COM PH. 705.719.4785

Ì	DESIGNED BY	NW/MWD	HORIZ SCALE	N/A	PROJECT #	22099
	DRAWN BY	JM	VERT SCALE	N/A	DRAWING #	ND-2
	CHECKED BY	MWD	DATE	JUNE 2023	REVISION #	6



FOR REAR YARD AND

LANDSCAPING APPLICATIONS



FOR SEWER AND CULVERT OUTLETS

rip—rap mean diameter.

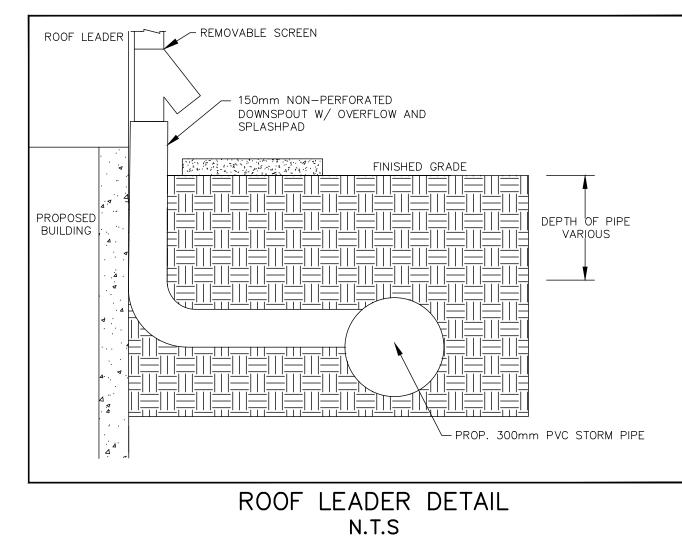
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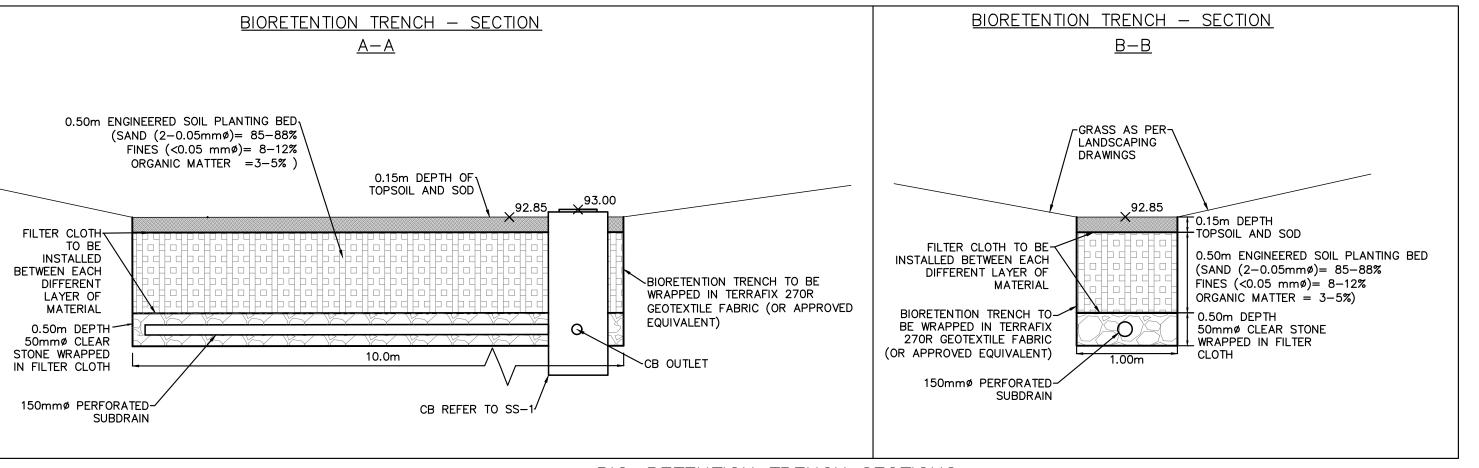
MARCH 2019

S29

DWG. No.:

A All dimensions are in millimetres





OPSD 810.010

BIO-RETENTION TRENCH SECTIONS
N.T.S

02/11/25 PHASE 1 BUILDING LAYOUT 10/16/24 JM UPDATED SNOW STORAGE 10/04/24 AS PER 3rd SUBMISSION COMMENTS 07/04/24 AS PER UPDATED SITE PLAN 02/12/24 AS PER 2nd SUBMISSION COMMENTS REVISION NOTE DATE BY

SPIKE IN UTILITY POLE LOCATED ON THE SE CORNER OF THE BORRISOKANE RD. AND PROMENADE FLAGSTAFF DR. INTERSECTION. ELEV: 92.96



KOREAN COMMUNITY CHURCH 3555 BORRISOKANE ROAD CITY OF OTTAWA

> NOTES AND DETAILS (3 OF 3)



DESIGNED BY	NW/MWD	HORIZ SCALE	N/A	PROJECT #	22099
DRAWN BY	JM	VERT SCALE	N/A	DRAWING #	ND-3
CHECKED BY	MWD	DATE	JUNE 2023	REVISION #	6

