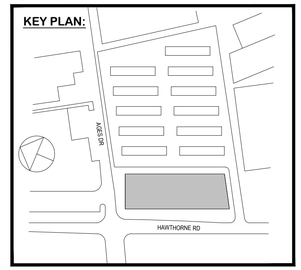
Pavement Layer	Compaction	Light Duty Paving	Heavy Duty Paving
Asphalt Layer (PG58-34)	92-97% MRD	65mm HL/SP 12.5 Cat. B3	40mm HL3/SP12.5 Cat B 50mm HL8/SP12.5 Cat B
OPSS 1010 Granular A	100% SPMDD	150mm	150mm
OPSS 1010 Granular B Sub-Base, Type II	100% SPMDD	450mm	600mm

NOTE:
THIS DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DETAILS AND NOTES ON DRAWING CS-201 AND CS-202 FOR THIS PROJECT

KEY PLAN:



NOTES:

SITE PLAN:

1. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS IMMEDIATELY TO THE ENGINEER.
2. INFORMATION SHOWN HEREON REGARDING THE SIZE AND LOCATION OF EXISTING SERVICES AND/OR UTILITIES IS FURNISHED AS THE BEST AVAILABLE INFORMATION AND SHALL BE INTERPRETED AS THE CONTRACTOR SEES FIT WITH THE UNDERSTANDING THAT THE OWNER AND EDILESSE CONSULTING CIVIL ENGINEERS LTD. OR ITS AGENTS DISCLAIM ALL RESPONSIBILITY FOR ITS SUFFICIENCY AND/OR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AT ITS OWN EXPENSE, LOCATES OF ALL UTILITIES.
3. AT ALL ENTRANCES TO THE SITE THE MUNICIPAL CURB AND SIDEWALK WILL BE CONTINUOUS THROUGH THE DRIVEWAY. THE DRIVEWAY GRADE WILL BE COMPATIBLE WITH THE EXISTING SIDEWALK AND CURB DEPRESSION WILL BE PROVIDED FOR EACH ENTRANCE, AS PER MUNICIPAL STANDARDS.
4. TOPSOIL TO BE STRIPPED. CLEAN FILL TO BE PLACED AND COMPACTED TO 95% STD. PROCTOR DENSITY. GRANULAR MATERIAL TO BE COMPACTED TO 100% STD. PROCTOR DENSITY.
5. ALL GRADES TO BE WITHIN 1:4 MAX. SLOPE AT PROPERTY LINE AND WITHIN THE SITE.
6. ALL UNDERGROUND SERVICE MATERIALS AND INSTALLATIONS TO BE IN ACCORDANCE WITH THE LATEST O.B.C., MUNICIPAL AND OTHER REGULATORY STANDARDS AND CODES.
7. ALL SURFACE DRAINAGE SHALL BE SELF CONTAINED, COLLECTED AND DISCHARGED AT A LOCATION TO BE APPROVED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
8. CONTINUOUS CONCRETE CURB TO BE PROVIDED BETWEEN LANDSCAPED AREAS AND ASPHALT PAVING EXCEPT AS NOTED.
9. ALL DISTURBED AREAS TO BE RESTORED TO THE SATISFACTION OF THE CITY OF OTTAWA, INCLUDING EXISTING CONCRETE CURB, TOPSOIL AND SODDED BOULEVARDS.
10. CLAY SEALS TO BE INSTALLED AS PER CITY STANDARD DRAWING S8. THE SEALS SHOULD BE AT LEAST 1.5M LONG (IN THE TRENCH DIRECTION) AND SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. GENERALLY, THE SEALS SHOULD EXTEND FROM THE FROST LINE AND FULLY PENETRATE THE BEDDING, SUBBEDDING AND COVER MATERIAL. THE BARRIERS SHOULD CONSIST OF RELATIVELY DRY AND COMPACTABLE BROWN SILTY CLAY PLACED IN MAXIMUM 225MM THICK LOOSE LAYERS COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES AND AT STRATEGIC LOCATIONS AT NO MORE THAN 60M INTERVALS IN THE SERVICE TRENCHES. FOR DETAILS REFER TO GEOTECHNICAL INVESTIGATION

FIRE DEPARTMENT:

1. FIRE ROUTE WILL BE DESIGNATED AS PER LOCAL BY LAW, AS AMENDED, PRIOR TO OCCUPANCY OF THE BUILDINGS.
2. ACCESS ROUTES TO BE DESIGNED TO SUPPORT A LOAD OF NOTE LESS THAN 11,363 KG PER AXLE AND HAVE A CHANGE IN GRADIENT OF NOT MORE THAN 1 IN 12.5 OVER A MINIMUM DISTANCE OF 15.0 M.
3. ALL 12.0 M TURNING RADII HAVE MIN. CLEARANCE OF 3.0 M BETWEEN THE CENTRE AND ANY CURB OR PART OF BUILDING.

STORM SEWERS:

1. ALL CONCRETE SEWER PIPES SHALL HAVE RUBBER GASKET JOINTS.
2. THE PIPE SUBGRADE MATERIAL IS ANTICIPATED TO BE CLAY. PER GEOTECHNICAL INVESTIGATION, PIPE BEDDING TO BE 300 MM THICK OPSS 1010 GRANULAR 'B' TYPE II SUB-BEDDING MATERIAL OVERLAIN BY 150 MM THICK OPSS 1010 GRANULAR 'A' BEDDING MATERIAL, COMPACTED TO AT LEAST 98 PERCENT SPMDD.
3. TRENCH BASE STABILIZATION TECHNIQUES, INCLUDING REMOVAL OF LOOSE/SOFT MATERIAL, PLACEMENT OF CRUSHED STONE SUB-BEDDING (GRANULAR B TYPE II), COMPLETELY WRAPPED IN A NON-WOVEN GEOTEXTILE, MAY BE USED IF TRENCH BASE DISTURBANCE BECOMES A PROBLEM IN WET OR SOFT AREAS.
4. IF THE BACKFILL FOR THE SERVICE TRENCHES WILL CONSIST OF GRANULAR FILL, CLAY SEALS SHOULD BE INSTALLED IN THE SERVICE TRENCHES AT SELECT INTERVALS AS PER CITY OF OTTAWA DRAWING NO. S8. THE SEALS SHOULD BE 1 M WIDE, EXTEND OVER THE ENTIRE TRENCH WIDTH AND FROM THE BOTTOM OF THE TRENCH TO THE UNDERSIDE OF THE PAVEMENT STRUCTURE. CLAY TO BE COMPACTED TO 95 PERCENT SPMDD.
5. UNDERGROUND SERVICES SHOULD BE INSTALLED IN SHORT OPEN TRENCH SECTIONS THAT ARE EXCAVATED AND BACKFILLED THE SAME DAY. ALL SEWERS SHALL BE CONSTRUCTED WITH BEDDING IN ACCORDANCE WITH CITY STD. 751, CL. 'B', UNLESS OTHERWISE NOTED.
6. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECS.
7. SINGLE CATCHBASIN LEADS TO BE 200 MM UNLESS OTHERWISE NOTED. DOUBLE CATCHBASIN LEADS TO BE 250 MM UNLESS OTHERWISE NOTED. ALL CATCHBASIN LEADS TO BE C-14-ES MINIMUM.
8. ALL BACKFILL FOR SEWERS, WATERMAINS AND UTILITIES ON THE ROAD ALLOWANCE MUST BE MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR DENSITY.

SANITARY SEWERS:

1. ALL SANITARY SEWER MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
2. SANITARY SEWERS AND CONNECTIONS 150mm DIA. AND SMALLER TO BE P.V.C. SDR-28 SANITARY SEWERS AND CONNECTIONS 200mm DIA. AND LARGER TO BE P.V.C. SDR-35, ASTM D3034-81, OR LATEST AMENDMENT, WITH BEDDING AS NOTED ABOVE IN STORM SEWER SECTION EXCEPT AT RISERS, UNLESS OTHERWISE NOTED.

WATERMAINS:

1. ALL WATERMAINS AND WATER SERVICE MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO CURRENT CITY, REGION, FIRE DEPARTMENT, AND BUILDING CODE STANDARDS AND SPECIFICATIONS.
2. WATERMAINS MUST HAVE A MIN. VERTICAL CLEARANCE OF 0.25m OVER AND 0.50m UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
3. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MIN. COVER OF 1.7m AND A MIN. HORIZONTAL SPACING OF 1.2m FROM THEMSELVES AND OTHER UTILITIES.
4. WATERMAINS TO BE INSTALLED TO GRADE AS SHOWN ON APPROVED SITE PLAN, COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK WHERE REQUESTED BY THE INSPECTOR.
5. WATERMAIN AND WATER SERVICE MATERIALS FOR 100 mm DIAM. UP TO AND INCLUDING 300 mm DIAM. TO BE P.V.C. CLASS 150 WITH IRON PIPE O.D. MANUFACTURED TO AWWA SPEC C900-75.
6. SERVICES AND MAINS LESS THAN 100mm DIAMETER SHALL BE TYPE 'K' COPPER.
7. PROVISION FOR FLUSHING THE LINES PRIOR TO TESTING ETC. MUST BE PROVIDED WITH AT LEAST A 50 MM DIAM OUTLET ON 100 mm DIAM AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END THE SAME SIZE AS THE LINE. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN ONTO A PARKING LOT OR DOWN A DRAIN. ON FIRE LINES, FLUSHING OUTLET TO BE 100 mm DIAM. OR A HYDRANT.
8. DUCTILE IRON WATERMAIN FITINGS TO BE CEMENT LINED TO AWWA SPEC C-110-77.
9. THRUST BLOCKS MUST BE INSTALLED ON ALL BENDS, TEES AND REDUCERS.
10. ALL CURB STOPS TO BE 1.5 m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
11. HYDRANT AND VALVE POSITION AND INSTALLATION PER STD. W18, W19.
12. ALL HYDRANTS ARE TO HAVE PUMPER NOZZLE OUTLET.

LEGEND:

EXISTING / PROPOSED

- CURB
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- UTILITY
- PROPERTY LINE
- LIGHT STANDARD
- HYDRANT
- ELEVATION
- SEWER OR WM TO BE REMOVED
- HANDICAPPED PARKING (3.6m X 5.5m TYPICAL)
- PAINTED PARKING LINE
- (D) DETECTOR CHECK VALVE
- (MB) METER & BACKFLOW PREVENT.
- OVERLAND FLOW ROUTE
- AREA OF POTENTIAL PONDING IN CASE OF BLOCKAGE OF CB

METRIC
DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

ELEVATION NOTE
ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.

A SITE BENCHMARK HAS BEEN PROVIDED ON THE TOP NUT OF THE EXISTING HYDRANT NORTH OF THE HAWTHORNE ENTRANCE, ELEVATION 73.58. BENCHMARK TO BE VERIFIED BEFORE USE.

SURVEY CREDIT:
TOPOGRAPHIC INFORMATION FROM TOPOGRAPHIC PLAN OF SURVEY OF PART OF LOT 2, CONCESSION 6 (RIDEAU FRONT), GEOGRAPHIC TOWNSHIP OF GLOUCESTER, CITY OF OTTAWA BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. O.L.S., II CONCOURSE GATE, SUITE 500, NEPEAN, ON. (613-727-0850) DATED JUNE 15TH, 2021.

STREET UTILITY INFORMATION AND INVERTS ARE FROM CITY OF OTTAWA GIS RECORDS.

FIELD INFORMATION TO BE VERIFIED BEFORE USE.

CAUTION, NOTE:
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REVISIONS

#		DATE
1	ISSUED FOR PRELIMINARY SITE PLAN APPROVAL	3-NOV-21
2	REVISED PER COMMENTS	20-APR-22
3	REVISED PER CITY COMMENTS	9-AUG-23

SCALE
5 4 3 2 1 0 5 10 15 20 25
PROVIDED FOR CONVENIENCE ONLY. THIS DRAWING IS NOT TO BE SCALED.

Designed By:
LICENSED PROFESSIONAL ENGINEER
M.D.J. Savoldelli
PROVINCE OF ONTARIO

OWNER:
ACCESS PROPERTY DEVELOPMENTS
100 CANADIAN RD, SUITE 300
TORONTO ON M1R 4Z5
437-427-8918

EC²E EDILESSE CONSULTING CIVIL ENGINEERS
105 Blake Avenue
Willowdale, ON, M2M 1B5
416-236-2341
info@ec2e.ca

PROJECT
PROPOSED BUILDING
3149 HAWTHORNE ROAD
OTTAWA, ONTARIO

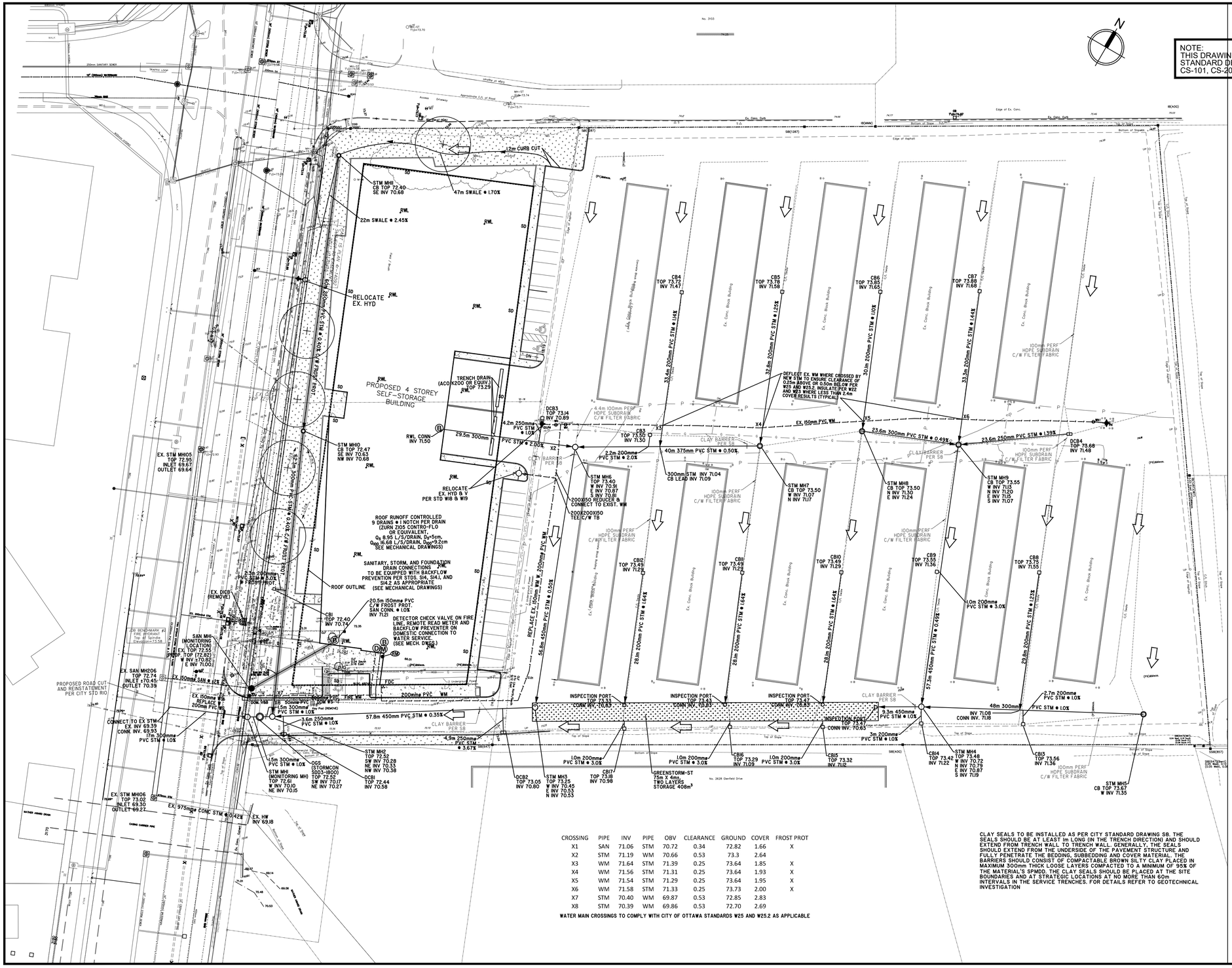
ACCESS PROPERTY DEVELOPMENT
ACCESS GROUP OF COMPANIES

DRAWING
SITE GRADING PLAN

DATE 3 NOV 21	ARCHITECT'S PROJ NO. 219-0058
DRAWN M.S.	DRAWING NO. CS-101
CHECKED C.C.	
SCALE 1:400	

PLAN No. 18646

007-12-21-0198



NOTE:
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CROSSING	PIPE	INV	PIPE	OBV	CLEARANCE	GROUND	COVER	FROST PROT
X1	SAN	71.06	STM	70.72	0.34	72.82	1.66	X
X2	STM	71.19	WM	70.66	0.53	73.3	2.64	
X3	WM	71.64	STM	71.39	0.25	73.64	1.85	X
X4	WM	71.56	STM	71.31	0.25	73.64	1.93	X
X5	WM	71.54	STM	71.29	0.25	73.64	1.95	X
X6	WM	71.58	STM	71.33	0.25	73.73	2.00	X
X7	STM	70.40	WM	69.87	0.53	72.85	2.83	
X8	STM	70.39	WM	69.86	0.53	72.70	2.69	

WATER MAIN CROSSINGS TO COMPLY WITH CITY OF OTTAWA STANDARDS W25 AND W25.2 AS APPLICABLE

CLAY SEALS TO BE INSTALLED AS PER CITY STANDARD DRAWING S8. THE SEALS SHOULD BE AT LEAST 1m LONG (IN THE TRENCH DIRECTION) AND SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. GENERALLY, THE SEALS SHOULD EXTEND FROM THE UNDERSIDE OF THE PAVEMENT STRUCTURE AND FULLY PENETRATE THE BEDDING, SUBBEDDING AND COVER MATERIAL. THE BARRIERS SHOULD CONSIST OF COMPACTABLE BROWN SILTY CLAY PLACED IN MAXIMUM 300mm THICK LOOSE LAYERS COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES AND AT STRATEGIC LOCATIONS AT NO MORE THAN 60m INTERVALS IN THE SERVICE TRENCHES. FOR DETAILS REFER TO GEOTECHNICAL INVESTIGATION

KEY PLAN:

NOTES

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

1. INCREMENTS OF THICKNESS SHALL BE ADJUSTABLE TO 25mm.
2. IN PROXIMITY OF MAINTENANCE HOLES, CULVERTS, CATCHBASINS, ETC., INSULATION SHALL BE PLACED PER DETAIL W23
3. DEPTH OF COVER LESS THAN 1200mm REQUIRES SPECIAL DESIGN
4. STAGGER JOINTS OF MULTIPLE SHEETS.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

Ottawa
THERMAL INSULATION FOR WATERMAINS IN SHALLOW TRENCHES
DATE: MAY 2001
REV. DATE: MARCH 2013
DWG. No.: W22

INSULATION REFERENCE TABLE	
D DISTANCE FROM C.B. OR M.H. WALL	T REQUIRED INSULATION THICKNESS T=T1,+T 2
2400 - 1800 mm.	50 mm
1800 - 1500 mm.	75 mm
1500 - 1200 mm.	100 mm
1200 - 900 mm.	125 mm

NOTES

FOR WATERMAINS & SERVICES IN PROXIMITY TO CATCHBASINS MAINTENANCE HOLES, CULVERTS ETC.

1. INSULATION SHALL EXTEND 1000 mm EACH WAY FROM THE ENDS OF THE STRUCTURE, PARALLELED TO THE WATERMAIN.
2. STAGGER JOINTS OF MULTIPLE SHEETS.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
4. INSULATION CAN BE AT EITHER LOCATION OR BOTH.

Ottawa
THERMAL INSULATION OF WATER-MAINS AT OPEN STRUCTURES
DATE: MAY 2001
REV. DATE: FEB 2004
DWG. No.: W23

LEGEND:

EXISTING | PROPOSED
- CURB
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- UTILITY
- PROPERTY LINE
- LIGHT STANDARD
- HYDRANT
- ELEVATION ×268.55 / ×(268.55)
- SEWER OR WM TO BE REMOVED
- FROST PROTECTION
- HANDICAPPED PARKING (3.6m X 5.5m TYPICAL)
- PAINTED PARKING LINE
- Ⓓ DETECTOR CHECK VALVE
- ⓂⒷ METER & BACKFLOW PREVENT.
- RM REMOTE METER LOCATION
- ⇨ OVERLAND FLOW ROUTE
- ▨ AREA OF POTENTIAL PONDING IN CASE OF BLOCKAGE OF CB

METRIC

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ELEVATION NOTE

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SURVEY CREDIT:

TOPOGRAPHIC INFORMATION FROM TOPOGRAPHIC PLAN OF SURVEY OF PART OF LOT 2, CONCESSION 6 (RIDEAU FRONT), GEOGRAPHIC TOWNSHIP OF GLOUCESTER, CITY OF OTTAWA BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. O.L.S., 11 CONCOURSE GATE, SUITE 500, NEPEAN, ON. [613-727-0850] DATED JUNE 15TH, 2021.

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2	REVISED PER COMMENTS	20-APR-22
3	REVISED PER CITY COMMENTS	9-AUG-23

SCALE
5 4 3 2 1 0 5 10 15 20 25
PROVIDED FOR CONVENIENCE ONLY.
THIS DRAWING IS NOT TO BE SCALED.

Designed By:
LICENSED PROFESSIONAL ENGINEER
M.U.J. Savoldelli
9 AUG 23
PROVINCE OF ONTARIO

OWNER:
ACCESS PROPERTY DEVELOPMENTS
100 CANADIAN RD, SUITE 300
TORONTO ON M1R 4Z5
437-427-8918

EC²E
EDILESSE CONSULTING CIVIL ENGINEERS
185 Blake Avenue
Willowdale, ON, M2M 1B5
416-236-2341
info@ec2e.ca

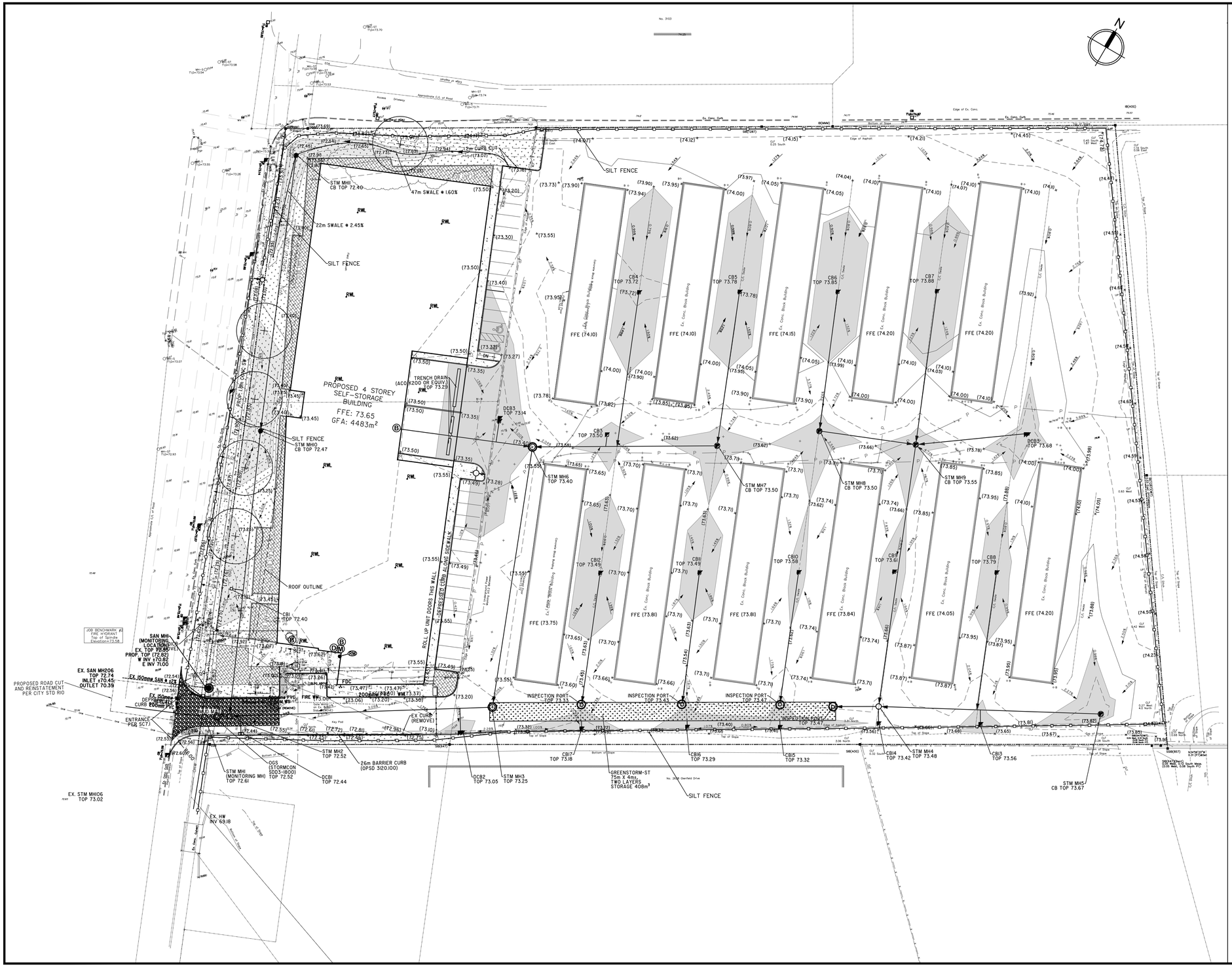
PROJECT
PROPOSED BUILDING
3149 HAWTHORNE ROAD
OTTAWA, ONTARIO
ACCESS PROPERTY DEVELOPMENT
ACCESS GROUP OF COMPANIES

DRAWING
SITE SERVICING PLAN

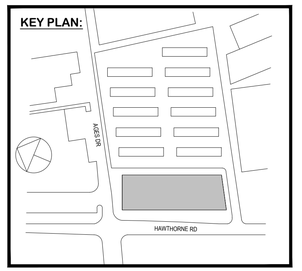
DATE: 3 NOV 21	ARCHITECT'S PROJ. NO. 219-0058
DRAWN: M.S.	DRAWING NO.
CHECKED: C.C.	**CS-102**
SCALE: 1:400	

D07-12-21-0198

PLAN No. 18646



KEY PLAN:



EROSION AND SEDIMENT CONTROL

THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.

1. SEDIMENT BARRIERS, CHECK DAMS, AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. ALL SEDIMENT CONTROL DEVICES TO BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAINFALL AND TO BE MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED. ANY NECESSARY REPAIRS ARE TO BE DONE IN A TIMELY MANNER TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE AND INTO THE WATERCOURSE.
3. IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
4. THE SITE WILL BE WETTED DOWN AS NECESSARY TO CONTROL DUST.
5. ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON-SITE.
6. ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH LOCAL NOISE BYLAWS.
7. SEDIMENT CONTROL FENCE TO BE AS PER OPSD 219.130 AS SHOWN HEREON, WITH NON-WOVEN GEOTEXTILE FABRIC (TERRAFIX 270R OR EQUIVALENT). ACCUMULATED SEDIMENT TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 OF THE HEIGHT OF THE FENCE.
8. POINT SOURCE DISCHARGES SUCH AS EFFLUENT FROM DEWATERING PUMPS SHALL BE DISCHARGED TO A TERRAFIX ENVIROBAG OR TO A FLAT AREA COVERED WITH NON-WOVEN GEOTEXTILE, STAKED AT THE PERIMETER TO ENSURE STABILITY, WITH A PERIMETER FORMED BY DUAL ROWS OF SILTSOXX, SPACED 0.6M APART, WITH THE INSIDE SILTSOXX NOT CLOSER THAN 1.5M FROM THE PUMP DISCHARGE POINT. HIGH FLOW POINT SOURCE DISCHARGES ARE TO BE FILTERED THROUGH A ROCK CHECK DAM (OPSD 219.210 OR 219.211) WITH TWO ROWS OF SILTSOXX IMMEDIATELY DOWNSTREAM OF THE CHECK DAM.
9. THE EROSION AND SEDIMENT CONTROLS WILL BE <u>INSPECTED WEEKLY, BEFORE AND AFTER RAINFALL EVENTS, AND FOLLOWING SNOWMELT EVENTS</u> TO MONITOR THEIR CONDITION. ALL DAMAGED EROSION AND CONTROL MEASURES SHALL BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
10. ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT SITE FROM DESIGNATED CONSTRUCTION ACCESS. CONTRACTOR TO PROVIDE GRAVEL ENTRANCE WHEREVER EQUIPMENT LEAVES SITE TO PREVENT MUD TRACKING ONTO PAVED SURFACES. GRAVEL BED SHALL BE A MINIMUM OF 15M LONG, 6M WIDE, AND 0.3M DEEP AND SHALL CONSIST OF COARSE (2" CRUSHER RUN LIMESTONE) MATERIAL. GRAVEL ENTRANCE TO BE MAINTAINED IN CLEAN CONDITION.
11. SURPLUS CLEAN FILL MATERIAL TO BE DISPOSED OFF SITE OR AS OTHERWISE INSTRUCTED BY THE PROJECT ENGINEER. ALL TOPSOIL STOCKPILES RETAINED FOR LANDSCAPING AREAS TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING. TOPSOIL PILES AND EXCAVATION MATERIAL SHALL NOT BE LOCATED CLOSER THAN 2.5M FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL DISTURBED AREAS AND TOPSOIL PILES TO BE SEEDED IF THEY ARE TO REMAIN DISTURBED OR ON SITE LONGER THAN THIRTY (30) DAYS.
12. AREAS REQUIRING TEMPORARY STABILIZATION TO BE TERRASEEDED PER MANUFACTURER'S SPECIFICATIONS USING A SEED MIX AS NOTED IN THE TABLE ON THIS PAGE AND COMPOSTED ORGANICS MIX SUITABLE FOR SLOPE STABILIZATION, WITH COMPOST ORGANICS APPLIED TO A MINIMUM DEPTH OF 50MM AND SEED AT A RATE OF 25-30KG/HA. STOCKPILES AND TEMPORARY STEEP SLOPES (GREATER THAN 3:1) TO BE SCARIFIED PRIOR TO TERRASEEDING. ALL AREAS TO BE INSPECTED AFTER EVERY RAINFALL AND AREAS DAMAGED BY RUNOFF REPAIRED. AREAS REQUIRING PERMANENT STABILIZATION TO BE SODDED OR OTHERWISE TREATED IN ACCORDANCE WITH THE LANDSCAPE PLANS FOR THE SITE. SOD ON SLOPES TO BE STAKED TO ENSURE STABILITY.
13. ALL CATCHBASINS IN THE VICINITY OF THE PROPOSED WORKS TO BE EQUIPPED WITH SILTSACKS OR EQUIVALENT AND FULLY SURROUNDED BY A SILTSOXX (FILTREX OR EQUIVALENT) TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE ADJACENT AREAS ARE PAVED OR GRADED AND SODDED, AS APPLICABLE, AND SOD IS ESTABLISHED.
14. IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THE SEDIMENTATION AND EROSION CONTROL PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS THE CONSTRUCTION ACCESS, SILT FENCE, SECURITY FENCING, SEDIMENT CONTROL, AND MUD MATS.
15. STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE KEPT UNDER CONTROL ON <u>ALL ROADWAYS</u> TO THE SATISFACTION OF THE PROPERTY MANAGER, CITY AND/OR CONSERVATION AUTHORITY.
16. *ANY FAILURE TO COMPLY WITH EROSION AND SEDIMENT CONTROL MEASURES STIPULATED ABOVE, INCLUDING BUT NOT LIMITED TO KEEPING THE ROADWAYS SURROUNDING THE SITE CLEAR, SHALL BE RECTIFIED BY THE MUNICIPALITY AND/OR THE OWNER AT THE CONTRACTOR'S EXPENSE.*

NOTE:
THIS DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DETAILS AND NOTES ON DRAWINGS CS-101, CS-201, AND CS-202 FOR THIS PROJECT

LEGEND:

EXISTING	PROPOSED	
		CURB
		STORM SEWER
		SANITARY SEWER
		WATERMAIN
		UTILITY
		PROPERTY LINE
		LIGHT STANDARD
		HYDRANT
(268.55)	(268.55)	ELEVATION

- HANDICAPPED PARKING (3.6m X 5.5m TYPICAL)
- PAINTED PARKING LINE
- SILT FENCE (T-219.130-I)
- SILT SACK AT MANHOLES
- FILTREXX INLET PROTECTION
- OVERLAND FLOW ROUTE
- AREA OF POTENTIAL PONDING IN CASE OF BLOCKAGE OF CB

METRIC
DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

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A SITE BENCHMARK HAS BEEN PROVIDED ON THE TOP NUT OF THE EXISTING HYDRANT NORTH OF THE HAWTHORNE ENTRANCE, ELEVATION 73.58. BENCHMARK TO BE VERIFIED BEFORE USE.

SURVEY CREDIT:
TOPOGRAPHIC INFORMATION FROM TOPOGRAPHIC PLAN OF SURVEY OF PART OF LOT 2, CONCESSION 6 (RIDEAU FRONT), GEOGRAPHIC TOWNSHIP OF GLOUCESTER, CITY OF OTTAWA BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. O.L.S., II CONCOURSE GATE, SUITE 500, NEPEAN, ON. [613-727-0850] DATED JUNE 15TH, 2021.

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REVISIONS

#		DATE
1	ISSUED FOR PRELIMINARY SITE PLAN APPROVAL	3-NOV-21
2	REVISED PER COMMENTS	20-APR-22
3	REVISED PER CITY COMMENTS	9-AUG-23

SCALE
5 4 3 2 1 0 5 10 15 20 25
PROVIDED FOR CONVENIENCE ONLY. THIS DRAWING IS NOT TO BE SCALED.

Designed By:
M.U.J. Savoldelli
AUG 23
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

OWNER:
ACCESS PROPERTY DEVELOPMENTS
100 CANADIAN RD, SUITE 300
TORONTO ON M1R 4Z5
437-427-8918

EC²E EDILESSE CONSULTING CIVIL ENGINEERS
185 Blake Avenue
Willowdale, ON, M2M 1B5
416-236-2341
info@ec2e.ca

PROJECT
PROPOSED BUILDING
3149 HAWTHORNE ROAD
OTTAWA, ONTARIO

ACCESS PROPERTY DEVELOPMENT
ACCESS GROUP OF COMPANIES

DRAWING
SILTATION AND EROSION CONTROL

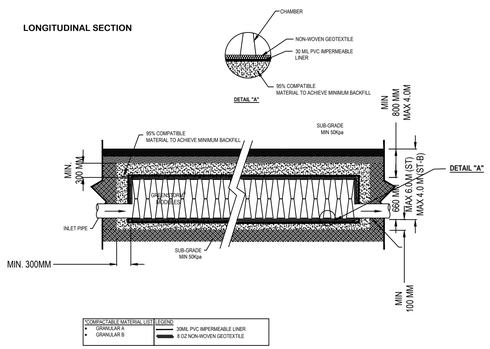
DATE 3 NOV 21	ARCHITECT'S PROJ. NO. 219-0058
DRAWN M.S.	DRAWING NO. CS-103
CHECKED C.C.	
SCALE 1:400	

PLAN No. 18646

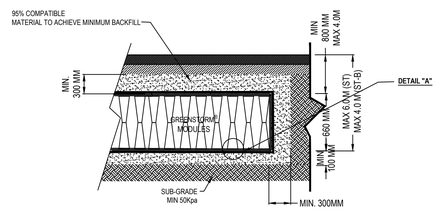
D07-12-21-0198

SECTION THROUGH STORM STORAGE SYSTEM (GREENSTORM LINER SYSTEM)
(NTS, SCHEMATIC - REFER TO SHOP DRAWINGS FOR CONSTRUCTION)

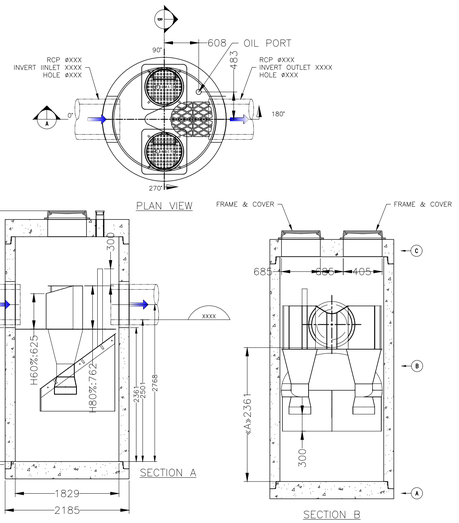
LONGITUDINAL SECTION

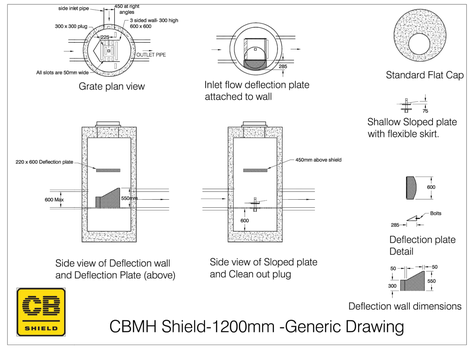


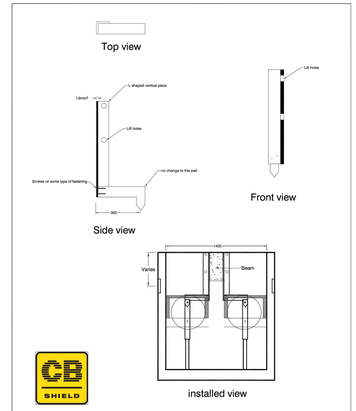
LATERAL SECTION



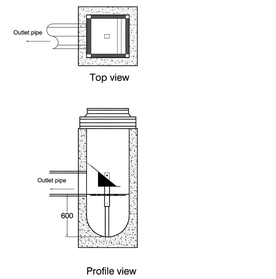
SDD 1800
(NTS, SCHEMATIC - REFER TO SHOP DRAWINGS FOR CONSTRUCTION)







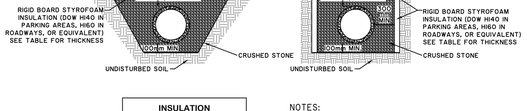
Notes
1 Recommended depth t/g - invert = 1.2m
Maximum depth t/g - invert = 2.4m
1. CB Shield to be installed in non frozen conditions.
2. The frame and cover should be well aligned with the catchbasin.
3. The sump must be clean before installation
4. The grate is at the same elevation as pipe invert.
5. Pipes must be cut flush with inside walls



600 x 600 CB
CB Shield (600mm Sump)

SEE ALSO CS-202 FOR APPLICABLE CITY STANDARD DRAWINGS

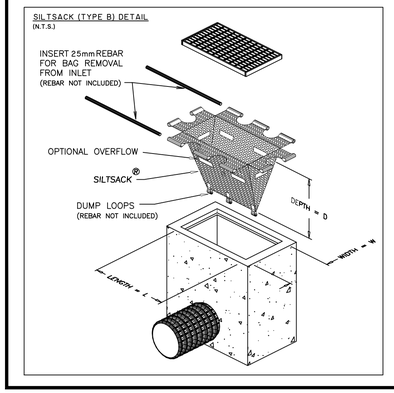
FROST PROTECTION DETAIL

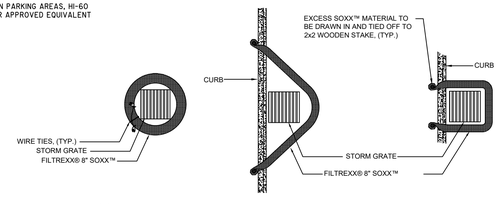


INSULATION		
COVER DEPTH (m)	THICKNESS (mm)	WIDTH W (m)
1.1-1.4	75	2.80
1.4-1.7	75	2.20
1.7-2.0	50	1.60

NOTES:
- ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
- APPLICABLE WHEN USING FILLCRETE OR GRANULAR BACKFILL FOR WATER MAINS WITH DEPTH LESS THAN THE LOCAL MINIMUM
- USE DOW HI-40 IN PARKING AREAS, HI-60 IN ROADWAYS, OR APPROVED EQUIVALENT

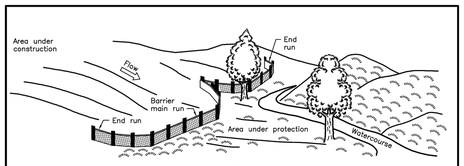
SILTSACK (TYPE B) DETAIL

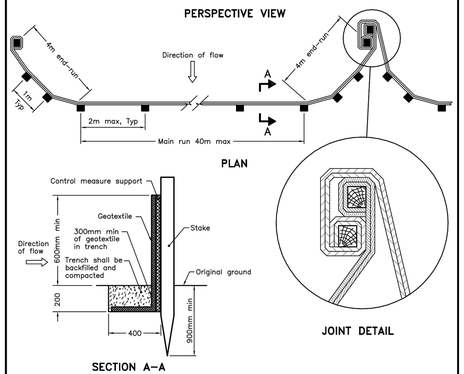




NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX® INLET PROTECTION
NTS





NOTE:
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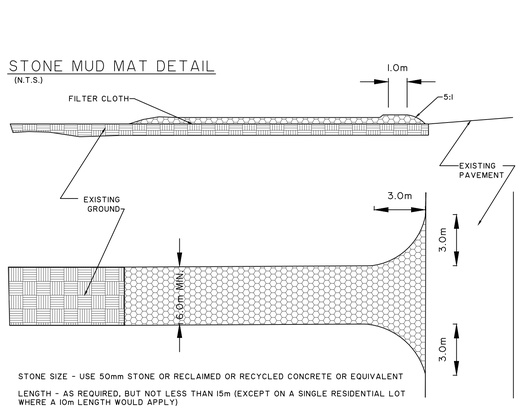
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev	2
HEAVY–DUTY SILT FENCE BARRIER			
	OPSD 219.130		

STONE MUD MAT DETAIL
(N.T.S.)



STONE SIZE - USE 50mm STONE OR RECLAIMED OR RECYCLED CONCRETE OR EQUIVALENT

LENGTH - AS REQUIRED, BUT NOT LESS THAN 15m (EXCEPT ON A SINGLE RESIDENTIAL LOT WHERE A 10m LENGTH WOULD APPLY)

THICKNESS - NOT LESS THAN 150mm

WIDTH - 6m MINIMUM, BUT NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. FILTER CLOTH WILL NOT BE REQUIRED ON RESIDENTIAL LOTS.

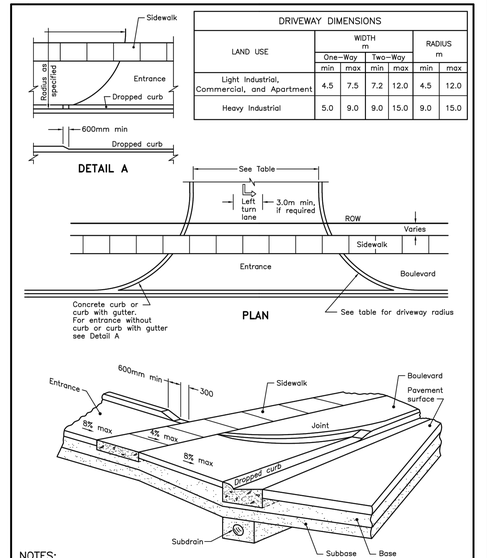
SURFACE WATER - ALL SURFACE WATER FLOWING OR DIRECTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE APPROVED AFTER EACH RAIN.

DRIVEWAY DIMENSIONS						
LAND USE	WIDTH m				RADIUS m	
	One-Way		Two-Way			
	min	max	min	max	min	max
Light Industrial, Commercial, and Apartment	4.5	7.5	7.2	12.0	4.5	12.0
Heavy Industrial	5.0	9.0	9.0	15.0	9.0	15.0



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ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev	2
URBAN INDUSTRIAL, COMMERCIAL, AND APARTMENT ENTRANCES			
	OPSD 350.010		

LEGEND:

EXISTING	PROPOSED	
		CURB
		STORM SEWER
		SANITARY SEWER
		WATERMAIN
		UTILITY
		PROPERTY LINE
LS	LS	LIGHT STANDARD
FH	FH	HYDRANT
(268.55)	268.55	ELEVATION

SEWER OR WM TO BE REMOVED
HANDICAPPED PARKING (3.6m X 5.5m TYPICAL)
PAINTED PARKING LINE
DETECTOR CHECK VALVE
METER & BACKFLOW PREVENT.
OVERLAND FLOW ROUTE
AREA OF POTENTIAL PONDING IN CASE OF BLOCKAGE OF CB

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Designed By:
M.J. Savoldelli
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
AUG 23

OWNER:
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EC²E EDILESSE CONSULTING CIVIL ENGINEERS
185 Blake Avenue
Willowdale, ON, M2M 1B5
416-236-2341
info@ec2e.ca

PROJECT
PROPOSED BUILDING
3149 HAWTHORNE ROAD
OTTAWA, ONTARIO

ACCESS PROPERTY DEVELOPMENT
ACCESS GROUP OF COMPANIES

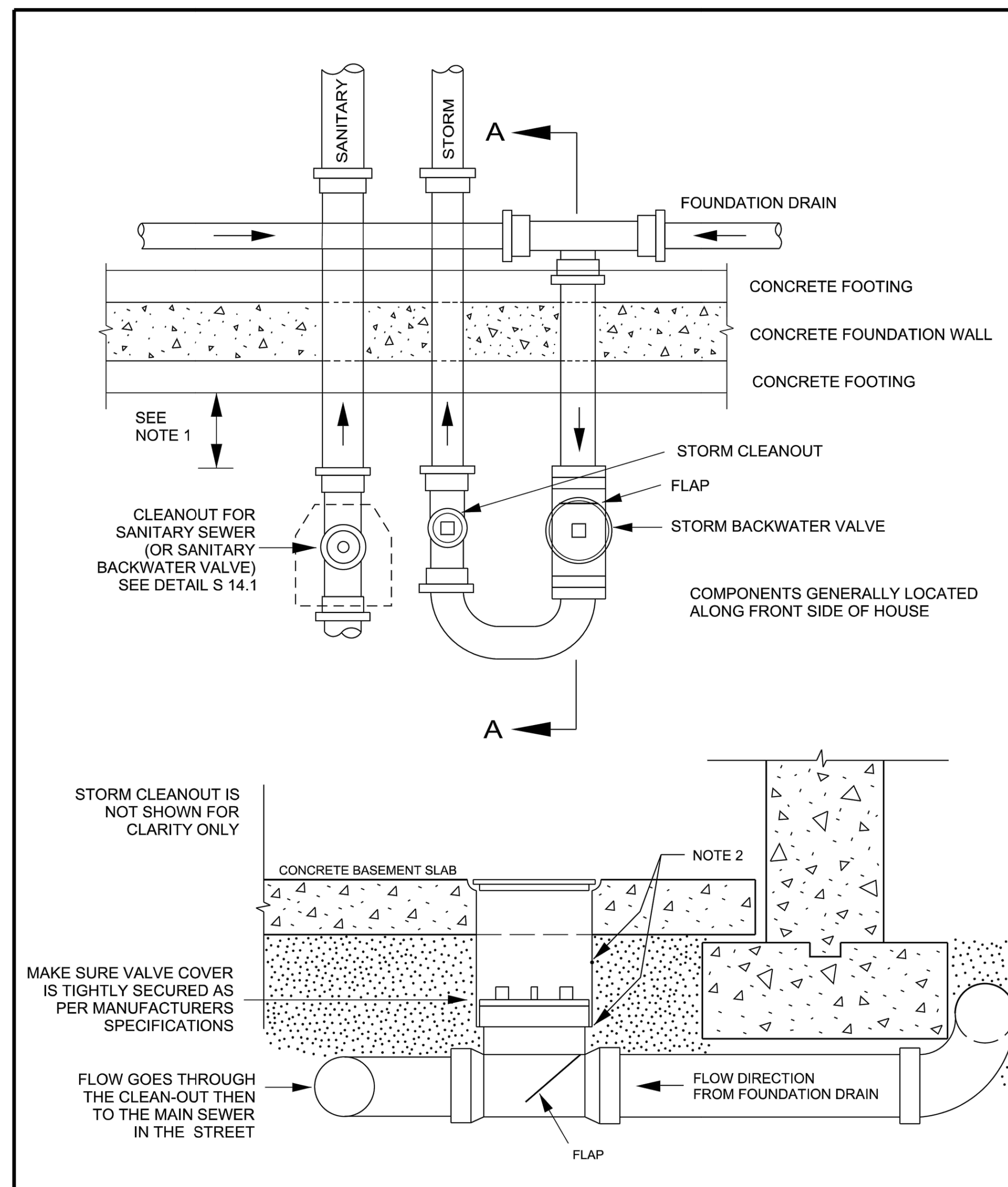
DRAWING
DETAILS AND NOTES

DATE	03 NOV 2021	ARCHITECT'S PROJ. NO.	219-00587
DRAWN	A.A.	DRAWING NO.	CS-201
CHECKED	M.S.		
SCALE	AS NOTED		

2007-12-21-0198
PLAN No. 18646

SCHEDULE OF CITY OF OTTAWA STANDARD DRAWINGS
THE FOLLOWING IS AN INDICATIVE LIST OF APPLICABLE STANDARD DRAWINGS
CONTRACTOR TO REFER TO AND COMPLY WITH ANY ADDITIONAL STANDARD
DRAWINGS AND NOTES WHICH MAY BE OMITTED HERE BUT WOULD OTHERWISE
BE APPLICABLE BASED ON FIELD CONDITIONS OR CIRCUMSTANCES NOT CONTEMPLATED.

S1	W17	SC1.1
S6	W18	SC1.4
S7	W19	SC5
S8	W22	SC6
S10	W23	SC7
S13	W24	SC8
S14	W25	R10
S14.1	W25.1	
S14.2	W25.2	
S15	W25.3	
S19.1	W25.4	
S24	W25.5	
S24.1	W25.6	
S25	W28	
S28.1	W29	
	W29.1	
	W31	
	W35	
	W36	
	W40	
	W49.1	
	W50	
	W55	



SECTION A-A

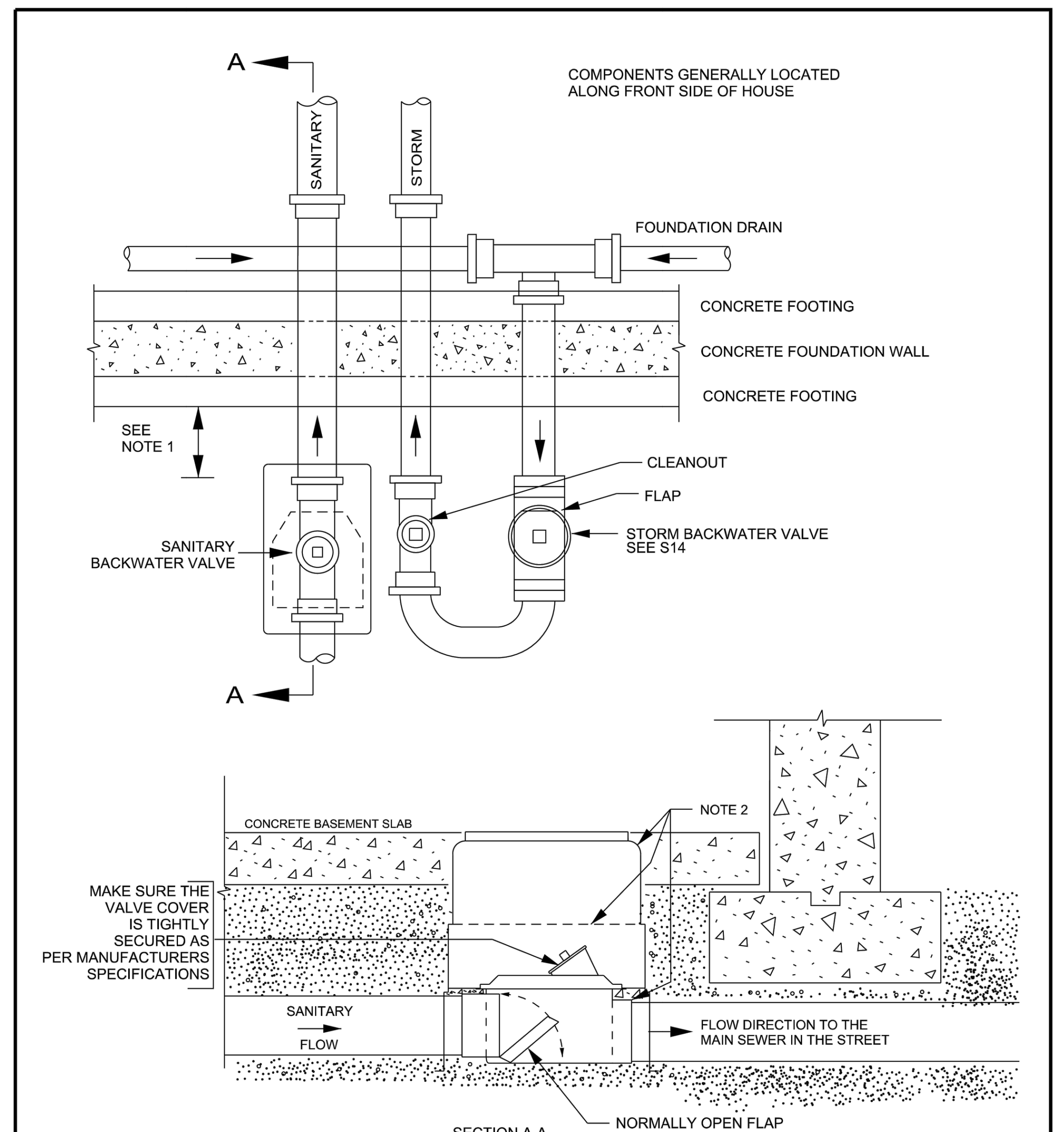
STORM BACKWATER VALVE

NOTES:

1. 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
2. JOINTS BETWEEN THE SLEEVE AND THE BACKWATER VALVE AND THE FLOOR SHALL BE WATERTIGHT.

N.T.S.

Ottawa	FOUNDATION DRAIN BACKWATER VALVE INSTALLATION	DATE: DEC. 2002
		REV. DATE: MARCH 2011
		DWG. No.: S14



SECTION A-A

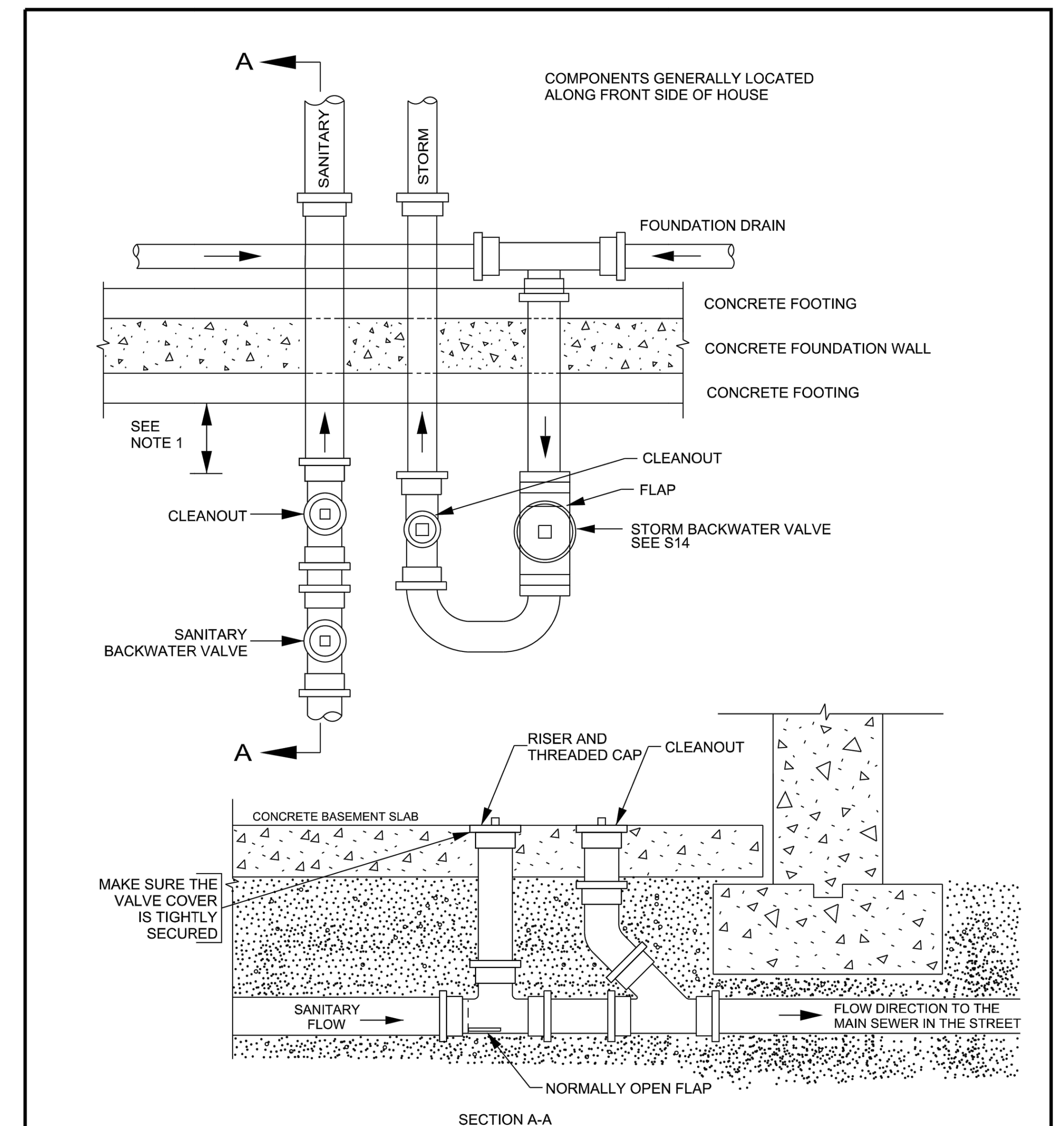
SANITARY BACKWATER VALVE

NOTES:

1. 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
2. JOINTS BETWEEN THE ACCESS BOX SECTIONS AND THE ACCESS BOX AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

N.T.S.

Ottawa	SANITARY BACKWATER VALVE INSTALLATION TYPE 1	DATE: MARCH 2010
		REV. DATE: MARCH 2011
		DWG. No.: S14.1



SECTION A-A

SANITARY BACKWATER VALVE

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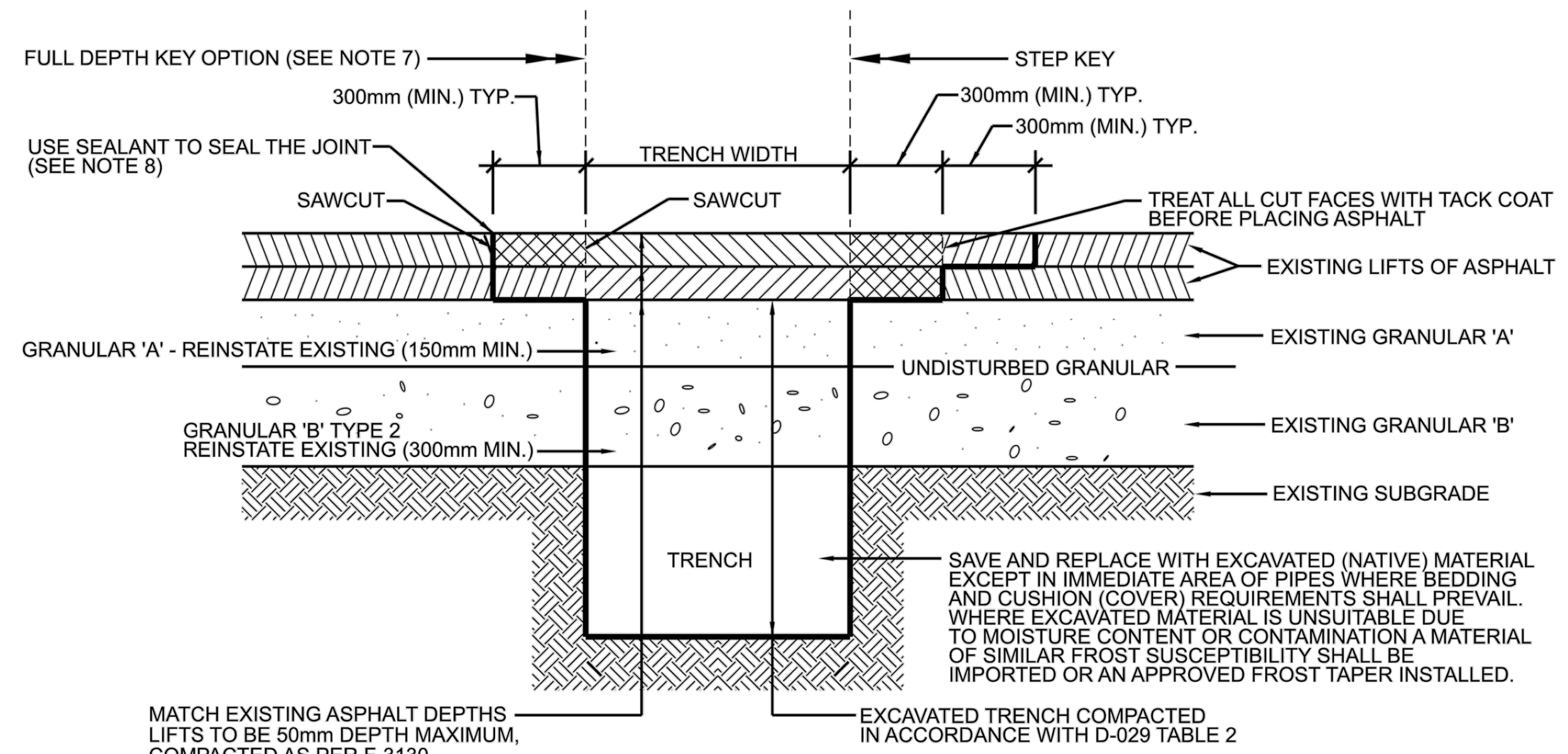
2. JOINTS BETWEEN CLEANOUT AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

N.T.S.

Ottawa	SANITARY BACKWATER VALVE INSTALLATION TYPE 2	DATE: MARCH 2011
		REV. DATE:
		DWG. No.: S14.2

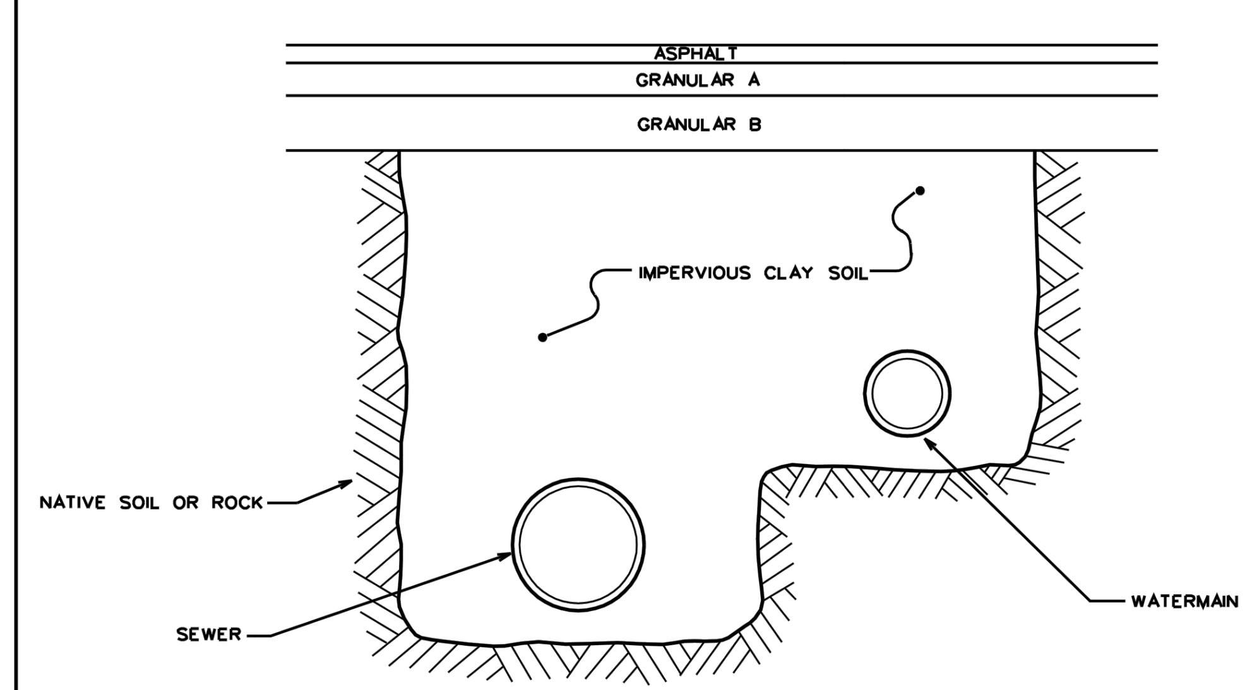


NOTES:

1. ALL EXISTING ASPHALT TO BE SAW CUT.
2. UNLESS SPECIFIED ELSEWHERE, SURFACE COURSE ASPHALT SUPERPAVE 12.5mm AND BASE COURSE ASPHALT SUPERPAVE 19.0mm IS TO BE USED.
3. UNLESS SPECIFIED ELSEWHERE, ASPHALT MIX SHALL BE LEVEL B (PG58-34) FOR NON-BUS LOCAL ROADS, AND LEVEL D (PG 64-34) FOR ALL OTHER ROADS.
4. UNLESS SPECIFIED ELSEWHERE, WHERE EXISTING PAVEMENT STRUCTURE EXCEEDS 150mm IN DEPTH, ASPHALT REINSTATEMENT SHALL BE 150mm AND GRANULAR "A" FOR THE REMAINDER.
5. UNLESS SPECIFIED ELSEWHERE, WHERE AN UNDERLYING LAYER OF CONCRETE PAVEMENT EXISTS, REINSTATEMENT SHALL CONSIST OF 150mm OF SUPERPAVE 19.00mm LEVEL B (PG58-34) COMPACTED IN LIFTS.
6. UNLESS SPECIFIED ELSEWHERE, HOT MIX ASPHALT PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH F-3130.
7. UNLESS SPECIFIED ELSEWHERE, THE USE OF FULL DEPTH KEY OPTION MUST BE SUBJECT TO CITY'S APPROVAL.
8. ALL EDGES TO BE ROUT AND SEALED WITH A BEAD OF HOT RUBBERIZED ASPHALT JOINT SEALING COMPOUND.

N.T.S.

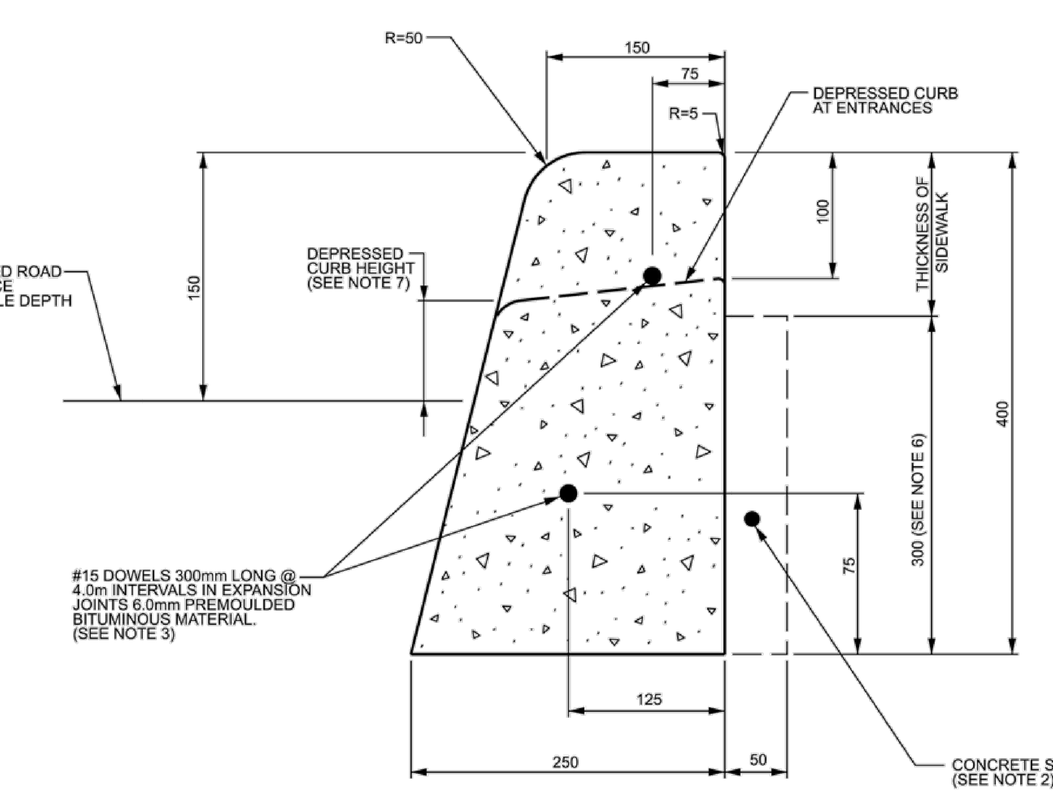
Ottawa	STANDARD TRENCH REINSTATEMENT IN PAVED SURFACE	DATE: MAY 2001
		REV. DATE: MARCH 2021
		DWG. No.: R10



NOTES:

1. CLAY SEAL TO EXTEND FROM BOTTOM OF TRENCH EXCAVATION TO UNDERSIDE OF ROAD STRUCTURE.
2. CLAY SEAL TO EXTEND FULL TRENCH WIDTH TO EXISTING NATIVE SOILS WITH A MINIMUM THICKNESS OF 1.0m ALONG PIPES.
3. CLAY SEAL TO BE LOCATED SO THAT NO PIPE JOINTS ARE WITHIN THE CLAY SEAL MATERIAL.

Ottawa	CLAY SEAL FOR PIPE TRENCHES	DATE: MAY 2001
		REV. DATE: MARCH 2006
		DWG. No.: S8



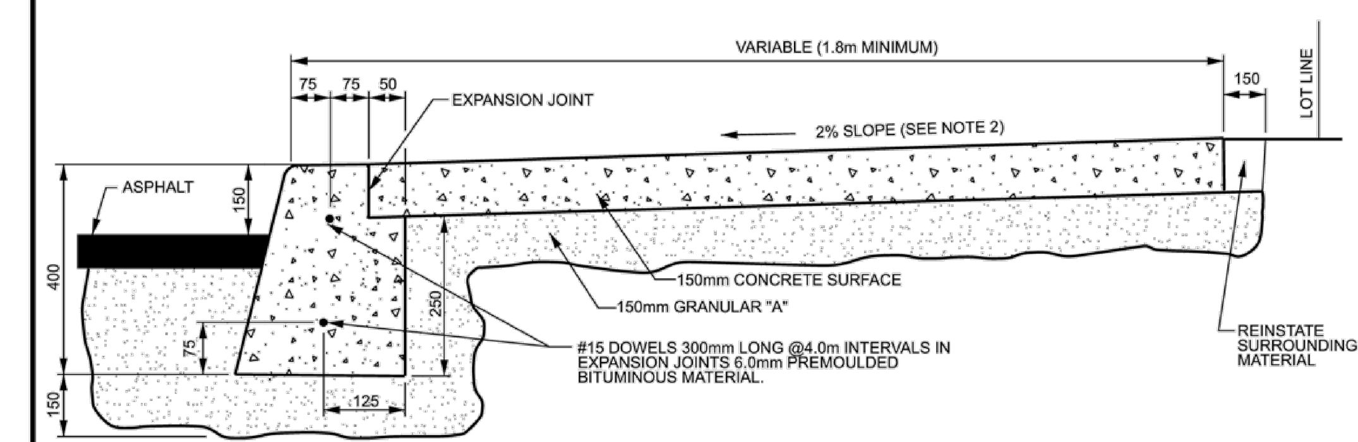
CONCRETE BARRIER CURB

NOTES:

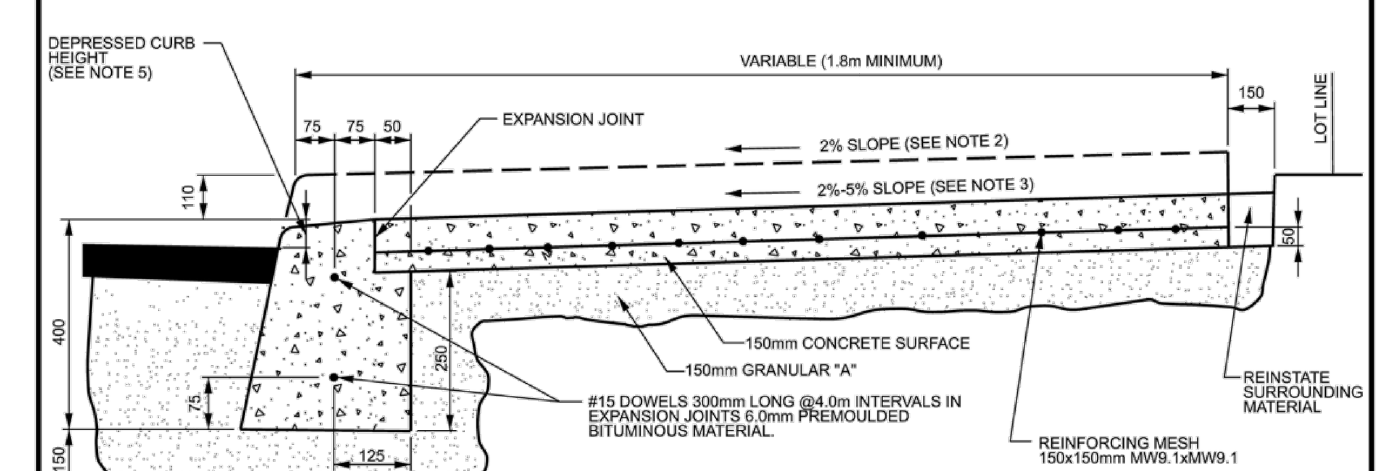
1. THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING.
2. A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK.
3. IF AN EXTRUSION CURBING MACHINE IS USED, THE EXPANSION BITUMINOUS MATERIAL AND THE #15 DOWELS ARE TO BE PLACED AT THE END OF THE EXTRUSION.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
5. DUMMY JOINTS SHALL BE 25mm DEEP, FRONT, BACK AND TOP OF SECTION AT 4m SPACING OR MATCH JOINTING WHERE SIDEWALK IS ADJACENT.
6. FOR DEPRESSED CURB AT ENTRANCES USE 250.
7. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13mm.

N.T.S.

Ottawa	CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-600.110)	DATE: JANUARY 2003
		REV. DATE: MARCH 2021
		DWG. No.: SC1.1



TYPICAL SIDEWALK SECTION



SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
3. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%..
4. EXPANSION AND DUMMY JOINTS AS PER SC5.
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13mm.

N.T.S.

Ottawa	CONCRETE BARRIER CURB WITH SIDEWALK	DATE: JANUARY 2003
		REV. DATE: MARCH 2021
		DWG. No.: SC1.4

LEGEND:

EXISTING	PROPOSED	
		CURB
		STORM SEWER
		SANITARY SEWER
		WATERMAIN
		UTILITY
		PROPERTY LINE
LS	LS	LIGHT STANDARD
FH		HYDRANT
268.55	(268.55)	ELEVATION

- SEWER OR WM TO BE REMOVED
- HANDICAPPED PARKING (3.6m X 5.5m TYPICAL)
- PAINTED PARKING LINE
- (D) DETECTOR CHECK VALVE
- (M)(B) METER & BACKFLOW PREVENT.
- OVERLAND FLOW ROUTE
- AREA OF POTENTIAL PONDING IN CASE OF BLOCKAGE OF CB

METRIC

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SURVEY CREDIT:

TOPOGRAPHIC INFORMATION FROM TOPOGRAPHIC PLAN OF SURVEY OF PART OF LOT 2, CONCESSION 6 (RIDEAU FRONT), GEOGRAPHIC TOWNSHIP OF GLOUCESTER, CITY OF OTTAWA BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. O.L.S., 11 CONCOURSE GATE, SUITE 500, NEPEAN, ON. [613-727-0850] DATED JUNE 15TH, 2021.

STREET UTILITY INFORMATION AND INVERTS ARE FROM CITY OF OTTAWA GIS RECORDS.

FIELD INFORMATION TO BE VERIFIED BEFORE USE.

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REVISIONS

#		DATE
1	ISSUED FOR PRELIMINARY SITE PLAN APPROVAL	3-NOV-21
2	REVISED PER COMMENTS	20-APR-22
3	REVISED PER CITY COMMENTS	9-AUG-23

Designed By:

LICENSED PROFESSIONAL ENGINEER
M.U.J. Savoldelli
AUG 23
PROVINCE OF ONTARIO

OWNER:
ACCESS PROPERTY DEVELOPMENTS
100 CANADIAN RD, SUITE 300
TORONTO ON M1R 4Z5
437-427-8918

EC2E
EDILESSE CONSULTING CIVIL ENGINEERS
185 Blake Avenue
Willowdale, ON, M2M 1B5
416-236-2341
info@ec2e.ca

PROJECT
**PROPOSED BUILDING
3149 HAWTHORNE ROAD
OTTAWA, ONTARIO**

ACCESS PROPERTY DEVELOPMENT
ACCESS GROUP OF COMPANIES

DRAWING
CITY OF OTTAWA STANDARD DETAILS

DATE 03 NOV 2021	ARCHITECT'S PROJ. NO. 219-00587
DRAWN A.A.	DRAWING NO.
CHECKED M.S.	CS-202
SCALE AS NOTED	

D07-12-21-0198

PLAN No. 18646

INLET	DRAINAGE AREA m2	DRAINAGE AREA Ha	LS m2	PAVED m2	RUNOFF COEFF. C	CB SHIELD REMOVAL	CB TOP	PONDING ELEV'N	PONDING DEPTH
DCB1	645.89	0.065	97.8	548.06	0.79	54%	72.44	72.59	0.15
DCB2	849.52	0.085	31.9	817.58	0.87	52%	73.05	73.1	0.05
DCB3	1471.51	0.147	0.0	1471.51	0.90	49%	73.14	73.4	0.26
CB3	598.48	0.060	0.0	598.48	0.90	53%	73.5	73.58	0.08
CB4	1145.87	0.115	47.6	1098.31	0.87	50%	73.72	73.9	0.18
CB5	1127.78	0.113	47.7	1080.12	0.87	50%	73.78	73.95	0.17
CB6	1097.64	0.110	49.3	1048.34	0.87	50%	73.85	73.99	0.14
CB7	1133.07	0.113	40.1	1092.97	0.88	50%	73.88	74.03	0.15
DCB4	2390.67	0.239	196.1	2194.6	0.84	44%	73.68	73.78	0.10
CB MH7	658.25	0.066	0.0	658.25	0.90	53%	73.5	73.62	0.12
CB MH8	646.14	0.065	0.0	646.14	0.90	53%	73.5	73.62	0.12
CB MH9	715.94	0.072	0.0	715.94	0.90	52%	73.55	73.66	0.11
CB8	647.51	0.065	0.0	647.51	0.90	53%	73.75	73.83	0.08
CB9	622.61	0.062	0.0	622.61	0.90	53%	73.55	73.66	0.11
CB10	591.11	0.059	0.0	591.11	0.90	53%	73.49	73.62	0.13
CB11	512.21	0.051	0.0	512.21	0.90	53%	73.49	73.63	0.14
CB12	631.2	0.063	0.0	631.2	0.90	53%	73.49	73.63	0.14
CB MH5	1421.19	0.142	146.2	1274.99	0.83	48%	73.67	73.81	0.14
CB13	427.15	0.043	42.2	384.95	0.83	55%	73.56	73.65	0.09
CB14	448.89	0.045	46.7	402.19	0.83	55%	73.42	73.42	0.00
CB15	519.02	0.052	46.6	472.42	0.84	55%	73.32	73.41	0.09
CB16	524.53	0.052	22.9	501.63	0.87	54%	73.29	73.41	0.12
CB17	445.95	0.045	18.8	427.18	0.87	54%	73.18	73.32	0.14
CB1	388.8	0.039	388.8	0	0.20	56%	72.4	72.95	0.55
CB MH10	421.2	0.042	402.7	18.5	0.23	56%	72.47	72.95	0.48
CB MH11	1554.91	0.155	764.6	790.28	0.56	50%	72.4	72.95	0.55
ALL CATCHBASINS TO BE EQUIPPED WITH CB-SHIELD (SEE CS-201)									

NOTE:
THIS DRAWING TO BE READ IN CONJUNCTION WITH STANDARD DETAILS AND NOTES ON DRAWINGS CS-101, CS-201, AND CS-202 FOR THIS PROJECT

LEGEND:

EXISTING	PROPOSED	
═	═	CURB
—	—	STORM SEWER
—	—	SANITARY SEWER
-·-	-·-	WATERMAIN
---	---	UTILITY
—	-·-	PROPERTY LINE
○LS	○LS	LIGHT STANDARD
FH	⌖	HYDRANT
×268.55	×(268.55)	ELEVATION

▨	SEWER OR WM TO BE REMOVED
▬	FROST PROTECTION
♿	HANDICAPPED PARKING (3.6m X 5.5m TYPICAL)
—	PAINTED PARKING LINE
Ⓓ	DETECTOR CHECK VALVE
ⓂⒷ	METER & BACKFLOW PREVENT.
RM	REMOTE METER LOCATION
⇨	OVERLAND FLOW ROUTE
▒	AREA OF POTENTIAL PONDING IN CASE OF BLOCKAGE OF CB

METRIC

DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

ELEVATION NOTE

ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.

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SCALE
5 4 3 2 1 0 5 10 15 20 25
PROVIDED FOR CONVENIENCE ONLY.
THIS DRAWING IS NOT TO BE SCALED.

Designed By:
LICENSED PROFESSIONAL ENGINEER
M.U.J. Savoldelli
9 AUG 23
PROVINCE OF ONTARIO

OWNER:
ACCESS PROPERTY DEVELOPMENTS
100 CANADIAN RD, SUITE 300
TORONTO ON M1R 4Z5
437-427-8918

EC²E Edilesse Consulting Civil Engineers
185 Blake Avenue
Willowdale, ON, M2M 1B5
416-236-2341
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PROJECT
PROPOSED BUILDING
3149 HAWTHORNE ROAD
OTTAWA, ONTARIO
APD
ACCESS PROPERTY DEVELOPMENT
ACCESS GROUP OF COMPANIES

DRAWING
STORM DRAINAGE AREA PLAN

DATE 3 NOV 21	ARCHITECT'S PROJ. NO. 219-0058
DRAWN M.S.	DRAWING NO.
CHECKED C.C.	**CS-203**
SCALE 1:400	

D07-12-21-0198

PLAN No. 18646