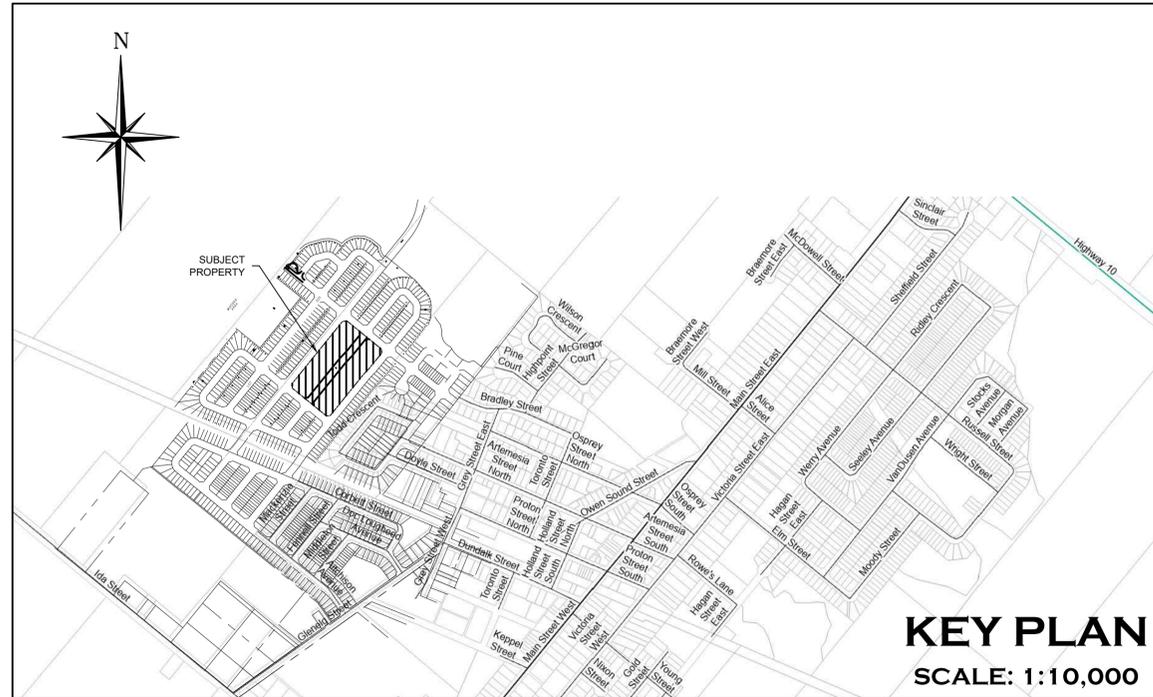


BWDSB NEW SCHOOL COMMUNITY OF DUNDALK TOWN OF SOUTHGATE COUNTY OF GREY



MASTER LEGEND	
EXISTING FEATURES (EX.)	
	EX. CONTOUR
	EX. GRADE
	EX. TREELINE
	EX. WATERCOURSE
	EX. DITCH
	EX. WATERMAIN
	EX. WATER SERVICE
	EX. FIRE HYDRANT & VALVE
	EX. SANITARY SEWER & MANHOLE
	EX. SANITARY FORCEMAIN
	EX. SANITARY SERVICE
	EX. STORM SEWER & MANHOLE
	EX. STORM CATCHBASIN
	EX. STORM DOUBLE CATCHBASIN
	EX. STORM CATCHBASIN MANHOLE
	EX. STORM DOUBLE CATCHBASIN MANHOLE
	EX. GAS MAIN
	EX. BELL LINE
	EX. BELL PEDESTAL
	EX. CABLE TELEVISION PEDESTAL
	EX. HYDRO POLE
	EX. LIGHT STANDARD
	EX. SIGN
	EX. BUILDING
	TEST PITS - GROUND WATER ELEVATIONS (AZIMUTH, 2006)
	BOREHOLE NUMBER & LOCATION (SOIL ENGINEERS LTD., 2015)
PROPOSED FEATURES (PR.)	
	PR. PROPERTY LIMITS
	PR. ELEVATION
	PR. ELEVATION (MATCH EX. ELEVATION)
	PR. SWALE & SLOPE
	PR. SWALE
	PR. MAJOR OVERLAND FLOW
	PR. DITCH DRAINAGE
	PR. WATERMAIN & VALVE
	PR. WATER SERVICE
	PR. FIRE HYDRANT, ANCHOR TEE & VALVE
	PR. SANITARY SEWER & MANHOLE
	PR. SANITARY FORCEMAIN
	PR. SANITARY SERVICE
	PR. SANITARY CATCHMENT
	SANITARY CATCHMENT AREA ID
	SANITARY CATCHMENT POPULATION (3.5ppu)
	SANITARY CATCHMENT AREA (ha)
	PR. STORM SEWER & MANHOLE
	PR. CATCHBASIN
	PR. DOUBLE CATCHBASIN
	PR. CATCHBASIN MANHOLE
	PR. DOUBLE CATCHBASIN MANHOLE
	PR. FOUNDATION DRAIN SERVICE
	PR. STORM CATCHMENT
	STORM CATCHMENT AREA ID
	STORM CATCHMENT RUN-OFF CO-EFFICIENT
	STORM CATCHMENT AREA (ha)
	PR. CURB CUT
	PR. CANADA POST COMMUNITY MAIL BOX
	PR. STOP SIGN
	PR. NAME SIGN
	PR. NO PARKING SIGN
	PR. TRANSFORMER
	PR. FENCE
	PR. BUILDING ENVELOPE
	PR. LIGHT DUTY SILT FENCE
	PR. STRAW BALE CHECK FLOW
	PR. HEAVY DUTY SILT FENCE
	PR. SLOPE (3:1 MAX.)
	PR. GATE
	PR. SWM FACILITY ACCESS ROAD
	PR. CONCRETE SIDEWALK RAMP

DRAWING	TITLE
C100	TITLE SHEET
C101	GENERAL SITE SERVICING PLAN
C102	SITE GRADING PLAN
C103A	STORMWATER MANAGEMENT CONCEPT PLAN
C103B	INFILTRATION TRENCH CROSS-SECTIONS
C104	SANITARY DRAINAGE PLAN
C105	STORM DRAINAGE PLAN
C106	EROSION AND SEDIMENT CONTROL PLAN
C107A	CONSTRUCTION NOTES, DETAILS & MUNICIPAL STANDARD DRAWINGS
C107B	ONTARIO PROVINCIAL STANDARD DRAWINGS
C107C	ONTARIO PROVINCIAL STANDARD DRAWINGS
C107D	ONTARIO PROVINCIAL STANDARD DRAWINGS
C107E	STORMWATER MANAGEMENT FACILITIES DETAILS

MUNICIPALITY

TOWNSHIP OF SOUTHGATE
185667 GREY COUNTY ROAD 9,
DUNDALK, ONTARIO, NOC 1B0

DEVELOPER

FLATO INC.
3621 HIGHWAY 7 EAST, SUITE 503
MARKHAM, ONTARIO, L3R 0G6

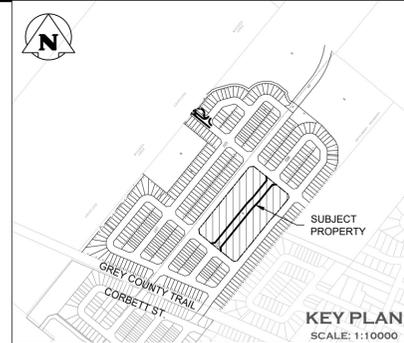
DEVELOPER'S ENGINEER



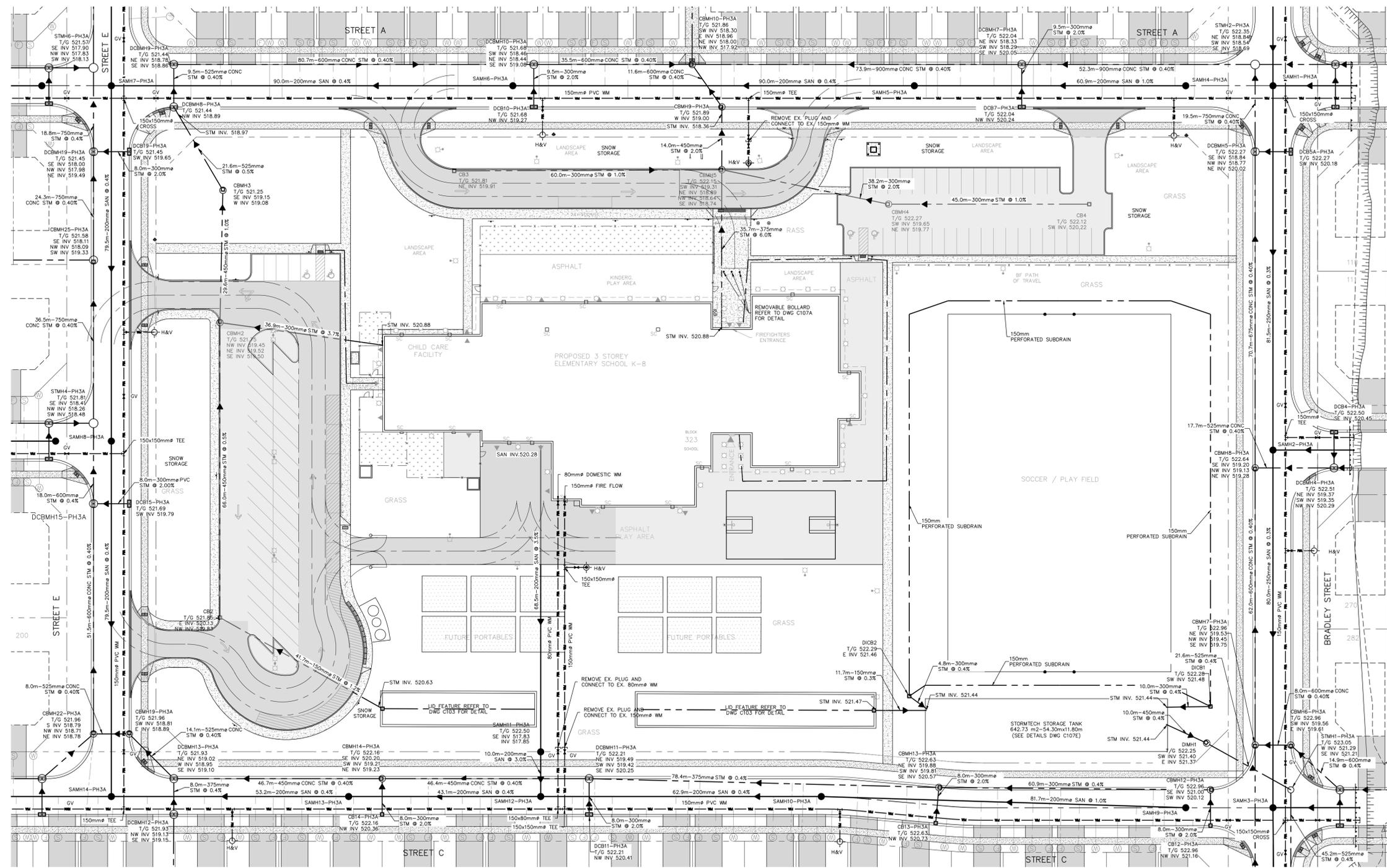
70 HURON STREET
SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

LANDSCAPE ARCHITECT

**PROJECT No.: 2243-7223
3RD SUBMISSION**



LEGEND
 □ SC ROOF OVERFLOW (SCUPPER)



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- DO NOT SCALE DRAWINGS.

BENCHMARKS
 ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY BENCHMARK NO. 00820048005 HAVING A PUBLISHED ELEVATION OF 525.163 METRES

No.	ISSUE	DATE: YYYY/MM/DD
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5	ISSUED FOR 3rd SUBMISSION	2026/FEB/12

Engineer
A. L. WEST
 100190189
 LICENSED PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

Engineer
J.Y. WANG
 100178087
 LICENSED PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

Project
BWDSB NEW SCHOOL
TOWNSHIP OF SOUTHGATE

Drawing
GENERAL SITE SERVICING PLAN

CROZIER

Drawn By: V.P. Design By: V.P./A.W./R.W. Project: **2243-7223**

Check By: A.W./R.W. Drawing: **C101**

HEAVY DUTY PAVEMENT STRUCTURE
(PER GEOTECH RECOMMENDATIONS):

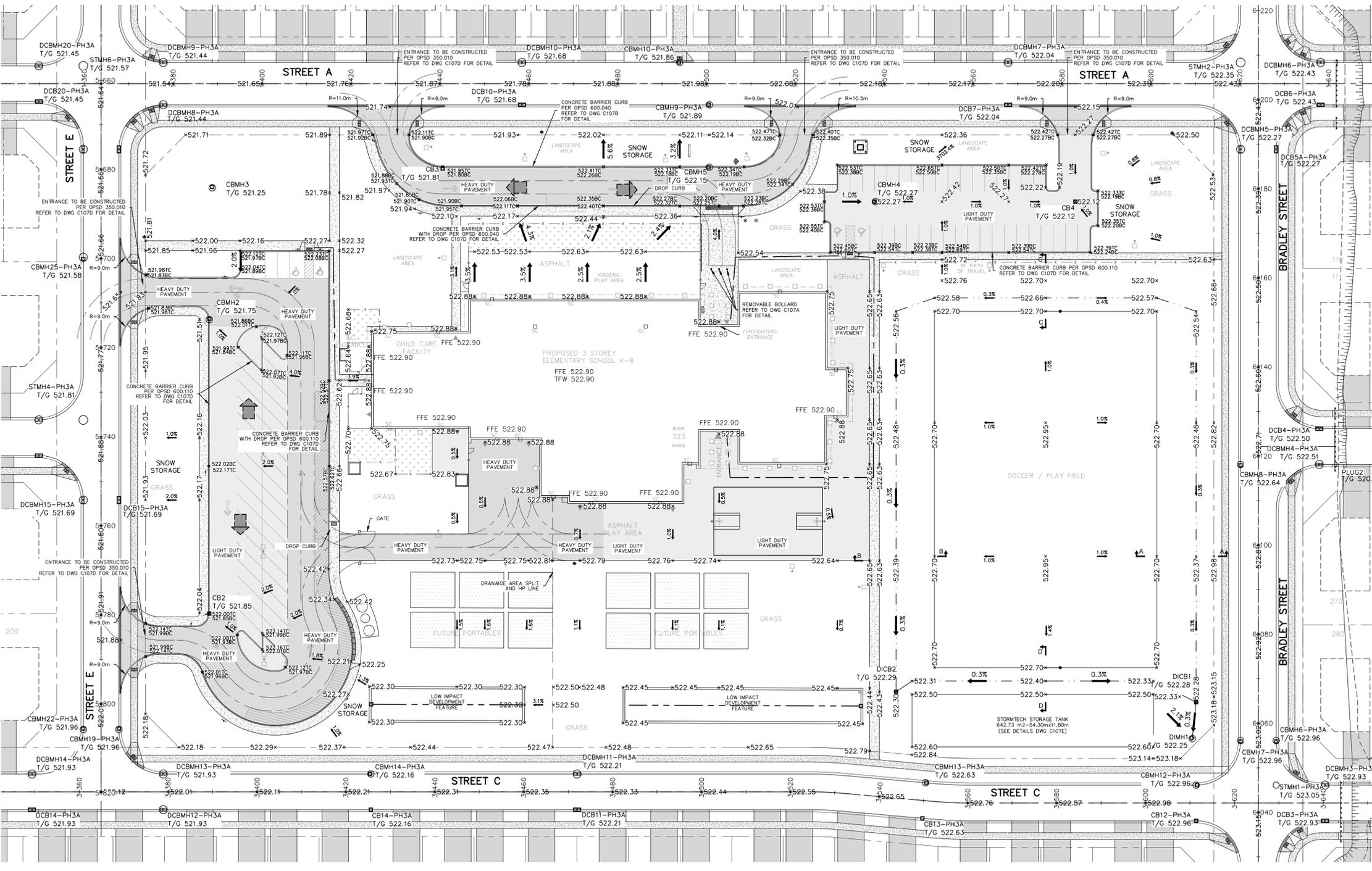
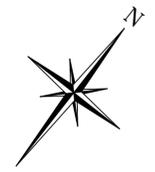
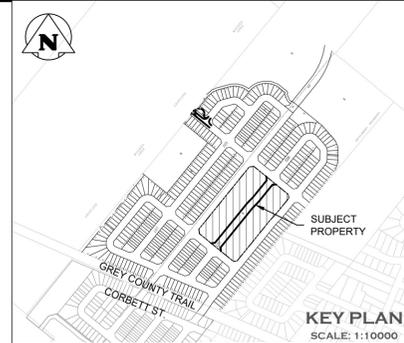
- 40mm ASPHALTIC CONCRETE HL3
- 60mm ASPHALTIC CONCRETE HL4
- 150mm GRANULAR 'A' BASE
- 400mm GRANULAR 'B' SUB-BASE

REFER TO DETAIL ON DWG C107A

LIGHT DUTY PAVEMENT STRUCTURE
(PER GEOTECH RECOMMENDATIONS):

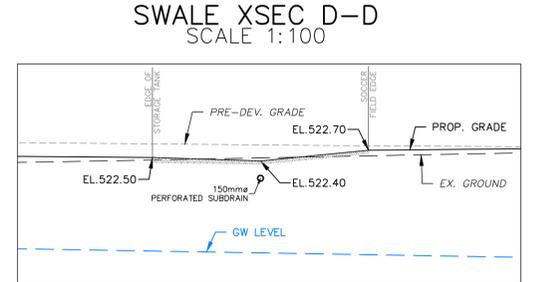
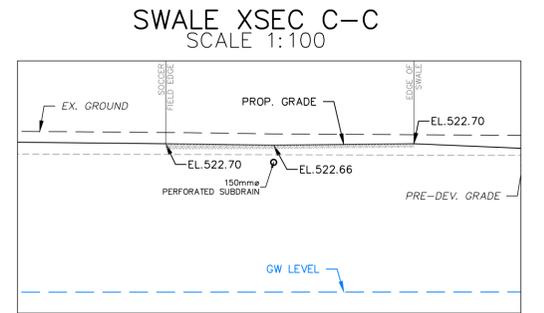
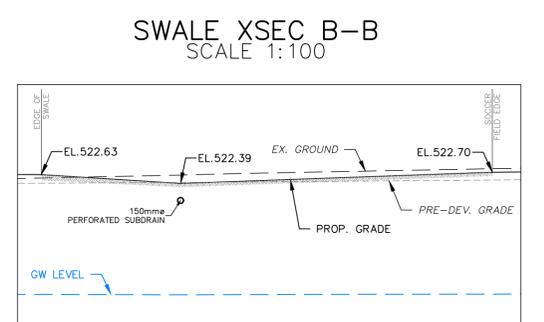
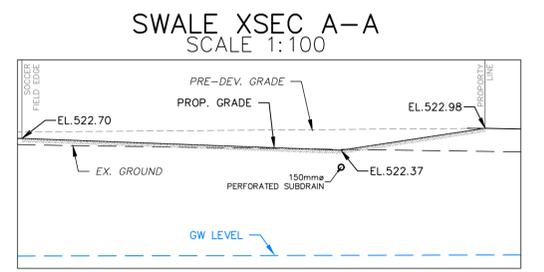
- 40mm ASPHALTIC CONCRETE HL3
- 50mm ASPHALTIC CONCRETE HL4
- 150mm GRANULAR 'A' BASE
- 300mm GRANULAR 'B' SUB-BASE

REFER TO DETAIL ON DWG C107A



LEGEND

- SC ROOF OVERFLOW (SCUPPER)



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BENCHMARKS
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5	ISSUED FOR 3rd SUBMISSION	2026/FEB/12

Professional Engineer stamps for A.L. WEST (100190189) and J.Y. WANG (100178087), both licensed in the Province of Ontario.

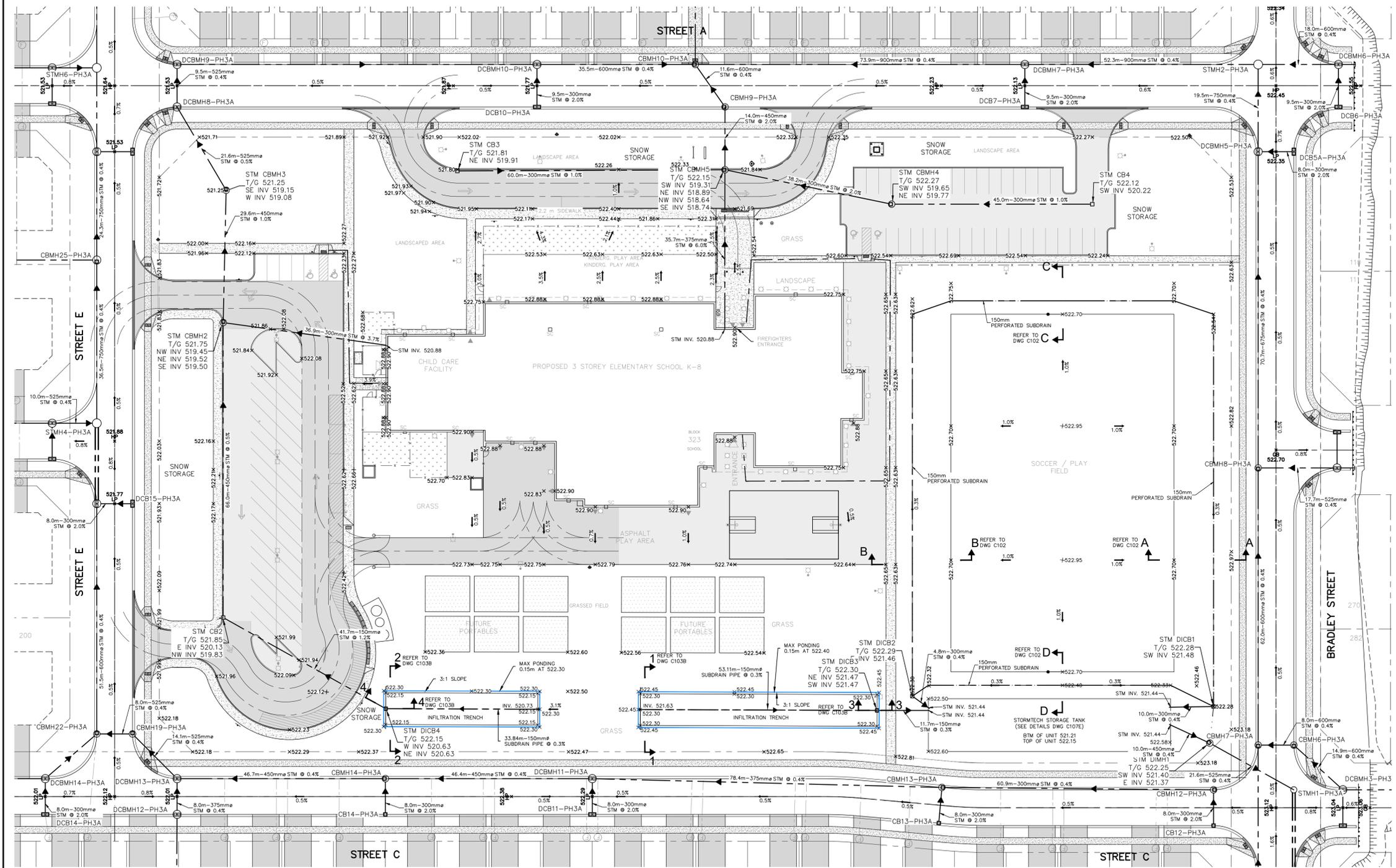
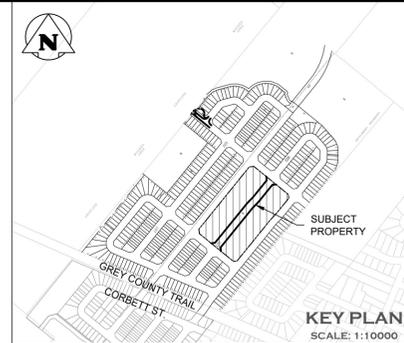
BWDSB NEW SCHOOL TOWNSHIP OF SOUTHGATE

PRELIMINARY SITE GRADING PLAN

CROZIER

Project: **2243-7223**
Drawing: **C102**

Drawn By: V.P. Design By: V.P./A.W./R.W. Check By: A.W./R.W. Drawing: A.W./R.W.



LEGEND
 □ SC ROOF OVERFLOW (SCUPPER)



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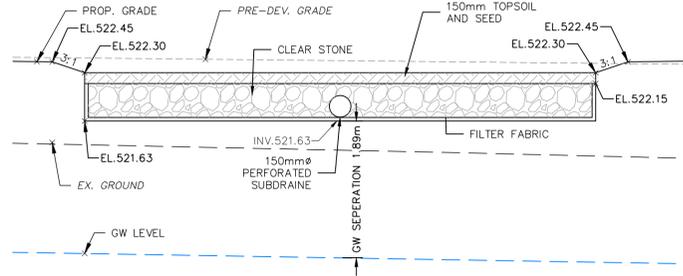


Project: **BWDSB NEW SCHOOL TOWNSHIP OF SOUTHGATE**
 Drawing: **STORMWATER MANAGEMENT CONCEPT PLAN**

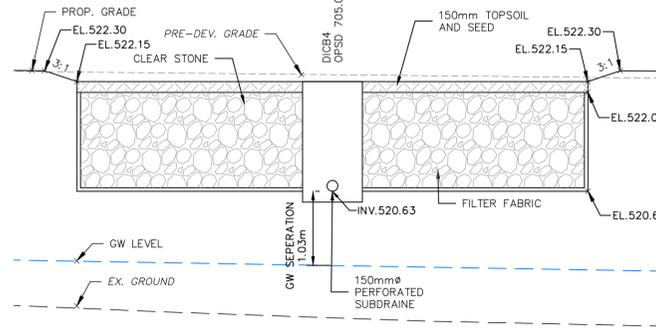
CROZIER

Drawn By: V.P. Design By: V.P./A.W. Project: **2243-7223**
 Check By: A.W. Check By: A.W./R.W. Drawing: **C103A**

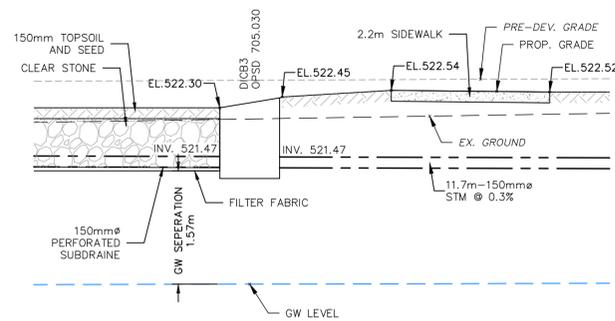
CROSS SECTION 1-1
SCALE 1:50



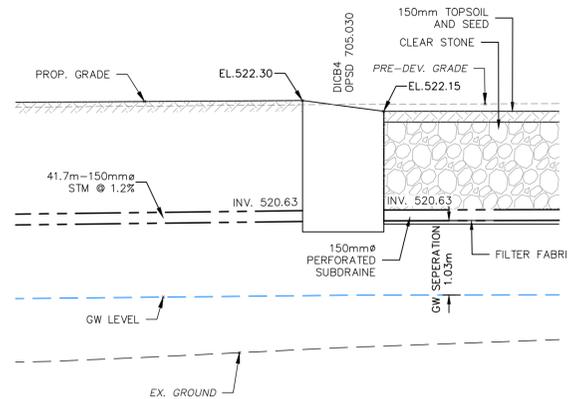
CROSS SECTION 2-2
SCALE 1:50



CROSS SECTION 3-3
SCALE 1:50



CROSS SECTION 4-4
SCALE 1:50



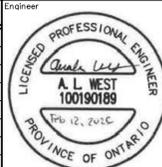
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Town	
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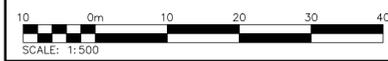
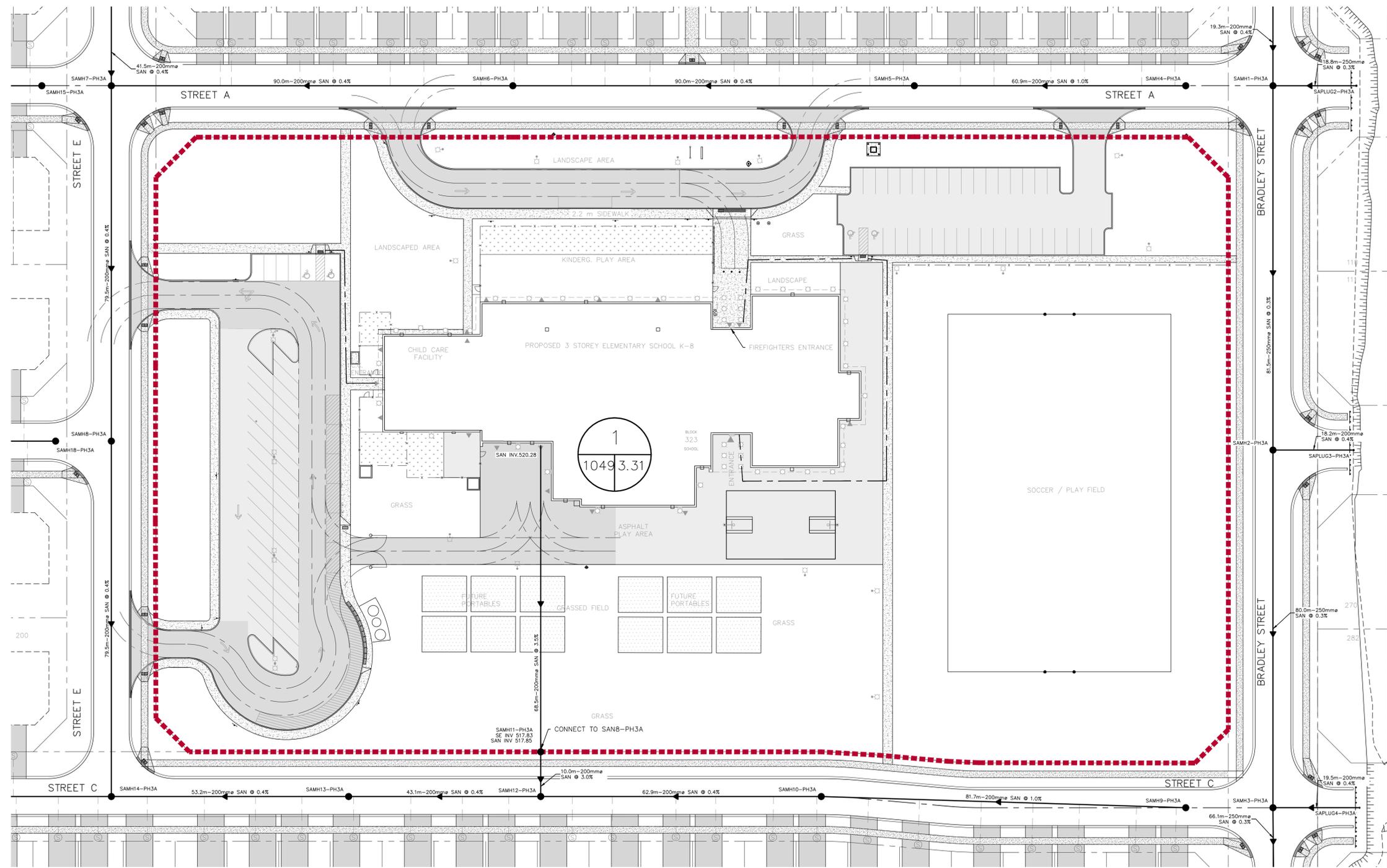
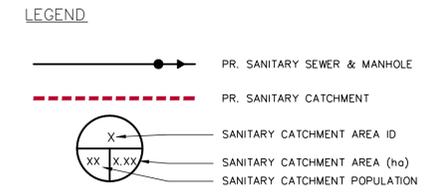
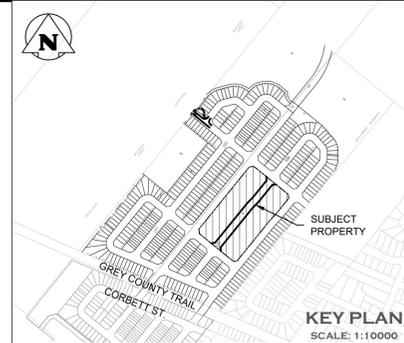


Engineer
 Project

BWDSB NEW SCHOOL
 TOWNSHIP OF SOUTHGATE
 INFILTRATION TRENCH CROSS-SECTIONS

CROZIER

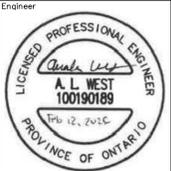
Drawn By	V.P.	Design By	V.P./A.W.	Project	2243-7223
Check By	A.W.	Check By	A.W./R.W.	Drawing	C103B



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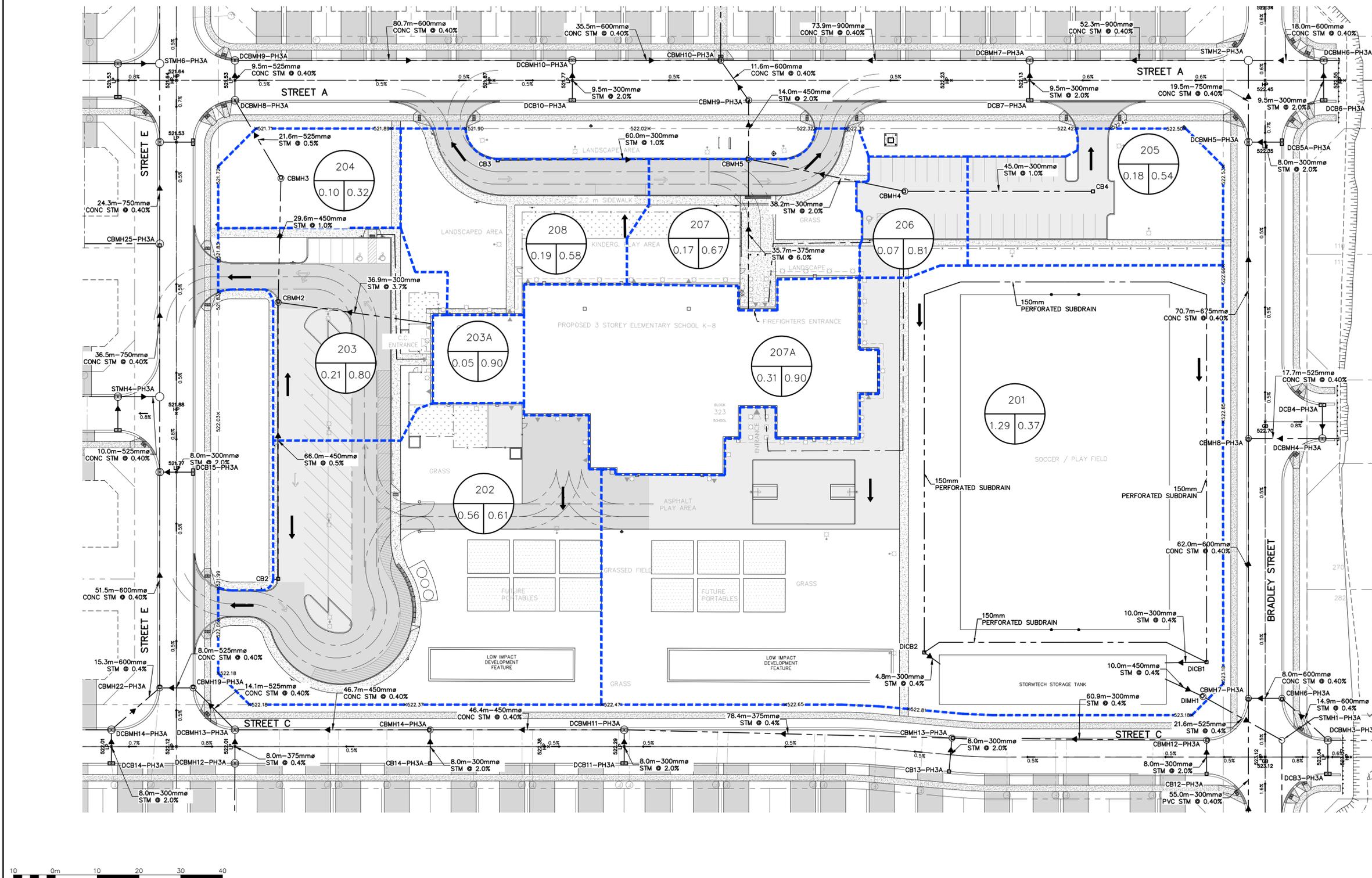
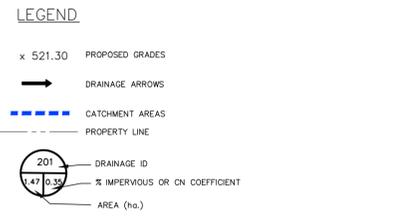
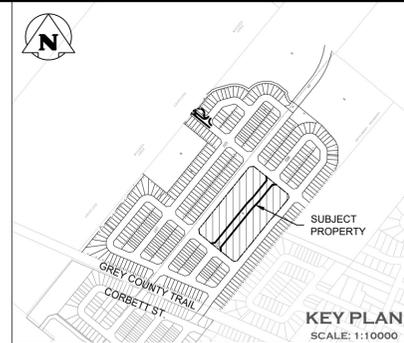
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Project: **BWDSB NEW SCHOOL TOWNSHIP OF SOUTHGATE**
 Drawing: **SANITARY DRAINAGE PLAN**

Drawn By: V.P. Design By: V.P./A.W./R.W. Project: **2243-7223**
 Check By: A.W./R.W. Check By: A.W./R.W. Drawing: **C104**



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Engineer: **A. L. WEST**
 LICENSED PROFESSIONAL ENGINEER
 100190189
 PROVINCE OF ONTARIO

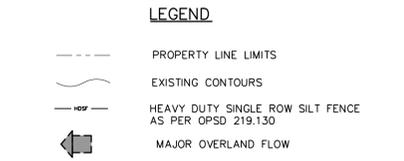
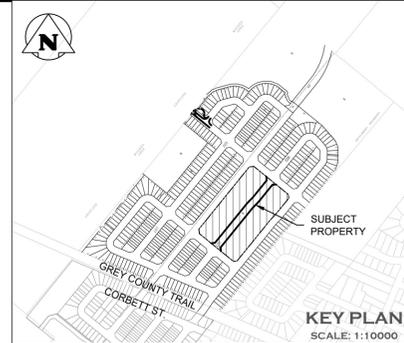
Engineer: **J.Y. WANG**
 LICENSED PROFESSIONAL ENGINEER
 100178087
 02/12/2026
 PROVINCE OF ONTARIO

Project: **BWDSB NEW SCHOOL TOWNSHIP OF SOUTHGATE**

Drawing: **STORM DRAINAGE PLAN**

Drawn By: V.P. Design By: V.P./A.W./R.W. Project: **2243-7223**

Check By: A.W./R.W. Check By: A.W./R.W. Drawing: **C105**



GENERAL NOTES:

1. ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE "CONSTRUCTOR" AS DEFINED IN THE ACT.
2. ALL SEDIMENT AND EROSION CONTROL FACILITIES AND WORKS ARE TO BE CONSTRUCTED AND IN PLACE TO THE APPROVAL OF THE SITE ENGINEER PRIOR TO ANY GRADING OPERATIONS COMMENCING. TYPICAL WORKS INCLUDE SILT FENCES, INTERCEPTOR SWALES, STRAW BALE CHECK DAMS AND SEDIMENT TRAPS.
3. ALL TEMPORARY TOPSOIL STOCKPILES ARE TO BE PROVIDED WITH THE NECESSARY SEDIMENT AND EROSION CONTROL FEATURES.
4. ALL INTERCEPTOR SWALES ARE TO BE SEED TO STABILIZE THEIR BANKS IMMEDIATELY FOLLOWING CONSTRUCTION.
5. REFER TO APPLICATION FORM FOR GRUBBING OF TREES WITHIN LIMITS OF FILL AREA.
6. NO GRADING OF LANDS WILL OCCUR WITHIN SPECIFIED BUFFERS ALONG PROPERTY LINES AND INTERNAL TO SITE.
7. THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

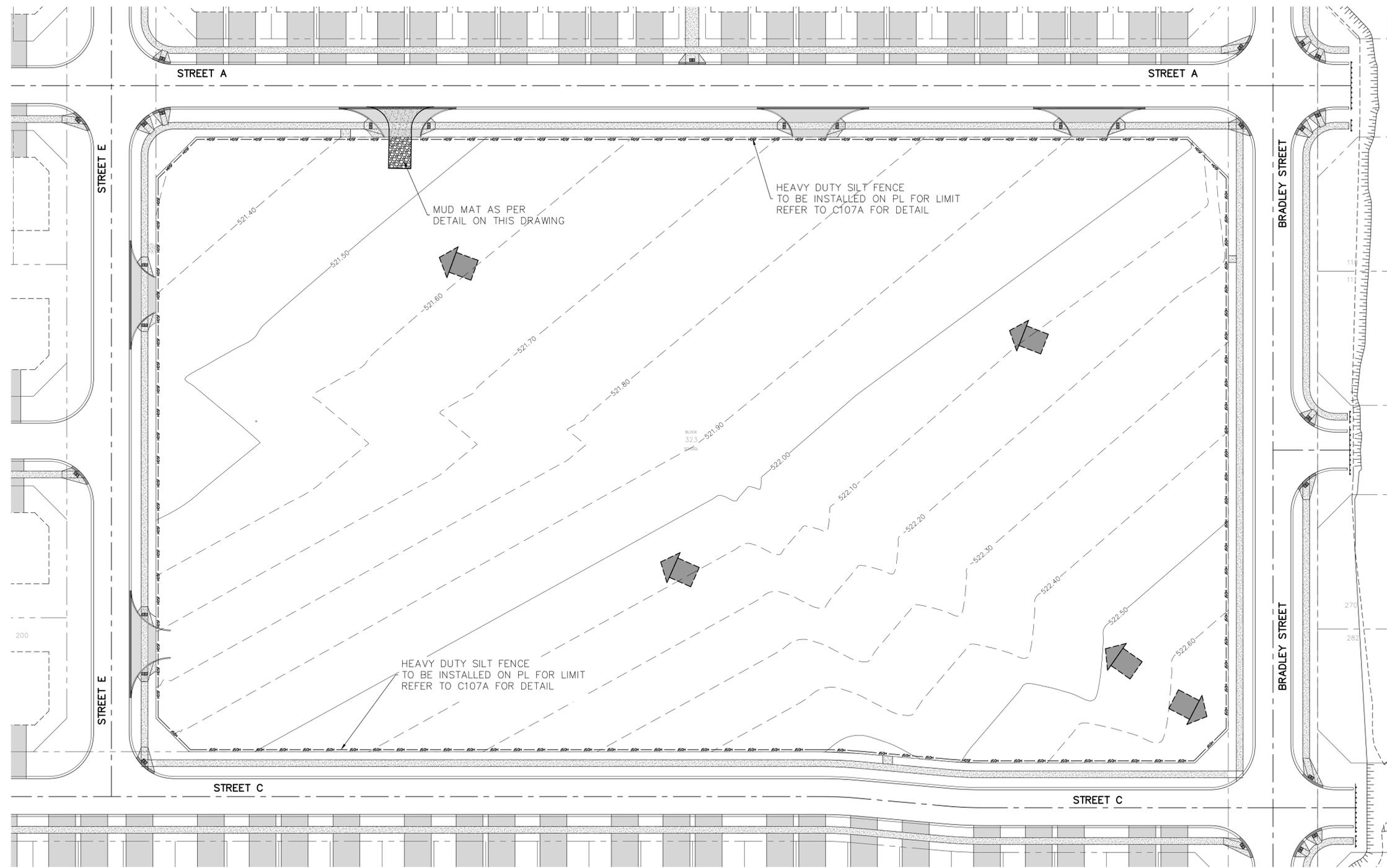
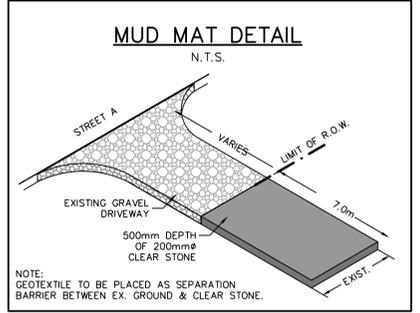
MAINTENANCE & OPERATIONS OF SEDIMENT CONTROLS

- SILT FENCE**
1. SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF SEDIMENT.
 2. SILT FENCE MUST BE INSPECTED FOLLOWING ALL 15mm OR GREATER RAIN STORM EVENTS OR AS DIRECTED BY SITE ENGINEER.
 3. SEDIMENT MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE.
 4. ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.

- MUD MAT MAINTENANCE**
1. INSPECT MUD MAT WEEKLY TO ASSESS CONDITION AND ENSURE OPERATION EFFICIENCY.
 2. SUPPLY AND PLACE ADDITIONAL CLEAR STONE AS DIRECTED BY SITE ENGINEER.
 3. MAT TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR AS DIRECTED BY SITE ENGINEER.

DECOMMISSIONING / RESTORATION

1. FOLLOWING COMPLETION OF CONSTRUCTION AND AS DIRECTED BY SITE ENGINEER, ALL EROSION AND SEDIMENT CONTROL WORKS ARE TO BE REMOVED INCLUDING ANY ACCUMULATED SEDIMENT.
2. ALL WORKS LOCATED ON LANDS OUTSIDE THE PROPOSED DEVELOPMENT AREA ARE TO BE GRADED TO MATCH EXISTING SURROUNDING GROUND AND HYDROSEDED.
3. ALL SEDIMENT BUILD-UP TO BE REMOVED FROM SEDIMENT BASINS. DISTURBED AREAS AND SEDIMENT BASINS TO BE TREATED WITH 25mm OF TOPSOIL AND HYDROSEDED AS DIRECTED BY SITE ENGINEER.

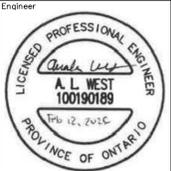


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BENCHMARKS

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No.	ISSUE	DATE: YYYY/MM/DD
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3	ISSUED FOR 2nd SUBMISSION	2025/JUL/07
4	ISSUED FOR CLASS A ESTIMATE	2025/AUG/18
5	ISSUED FOR 3rd SUBMISSION	2026/FEB/12



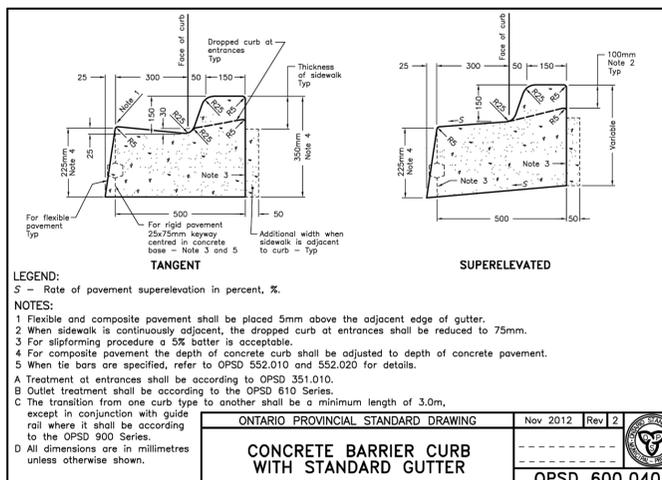
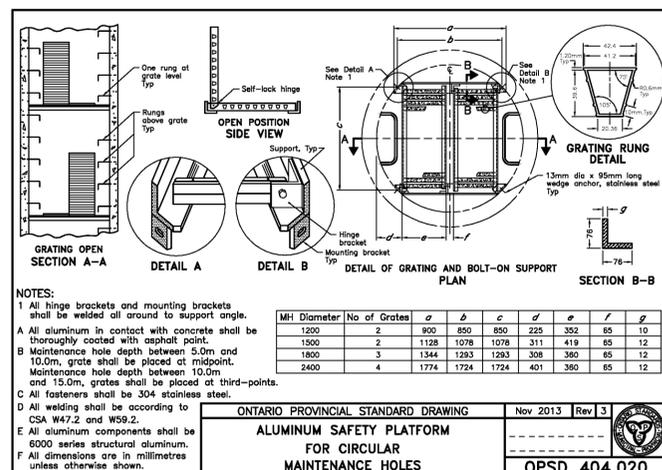
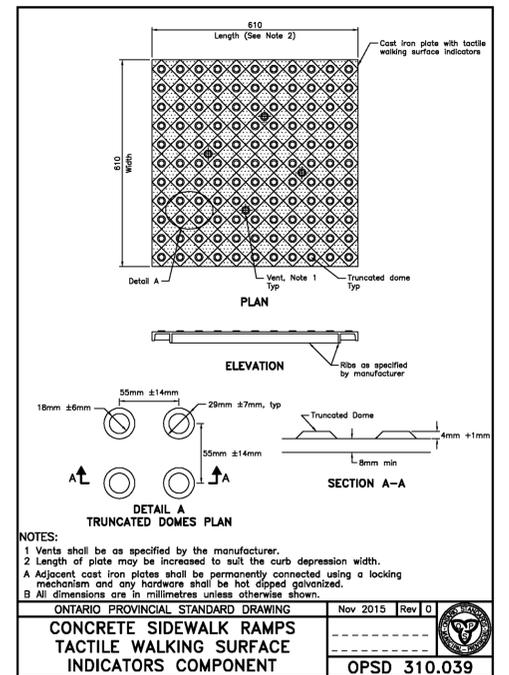
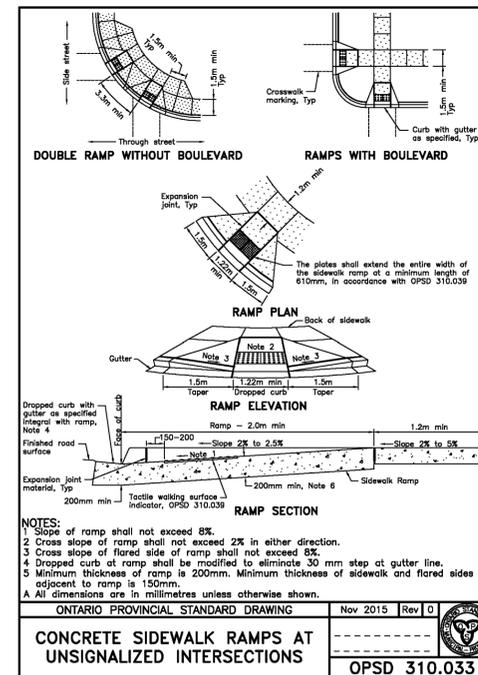
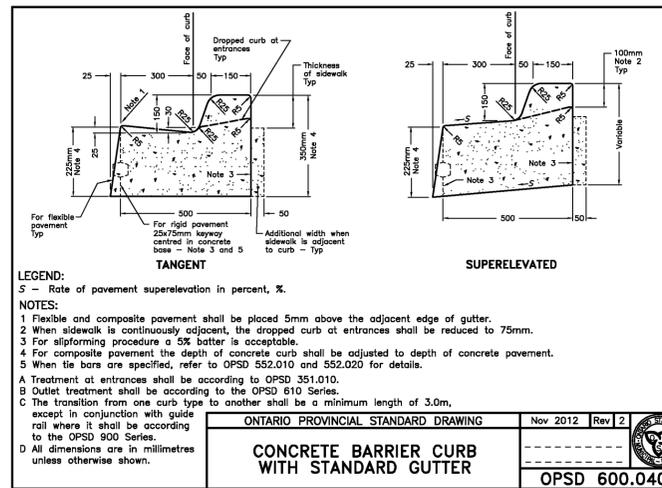
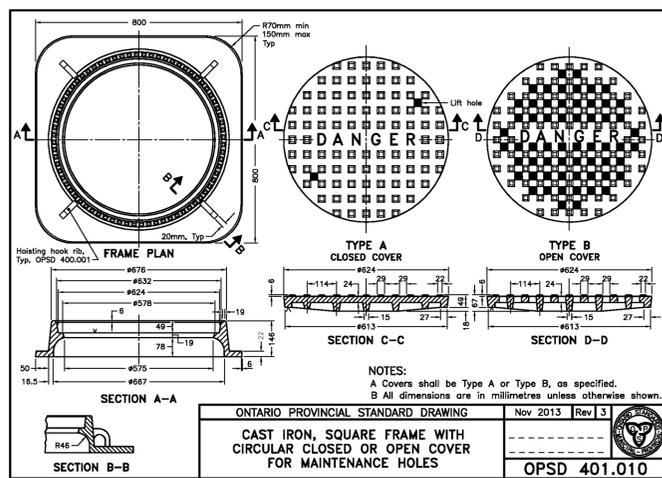
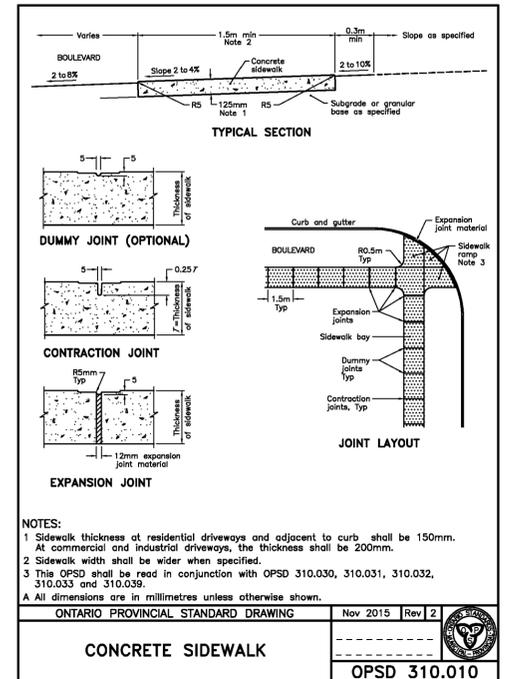
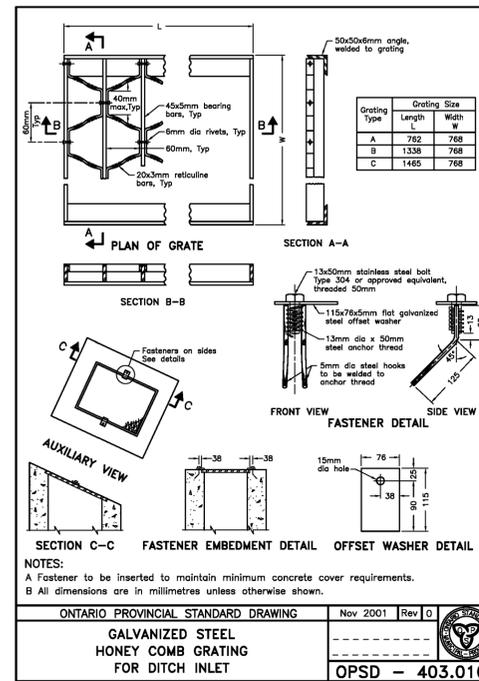
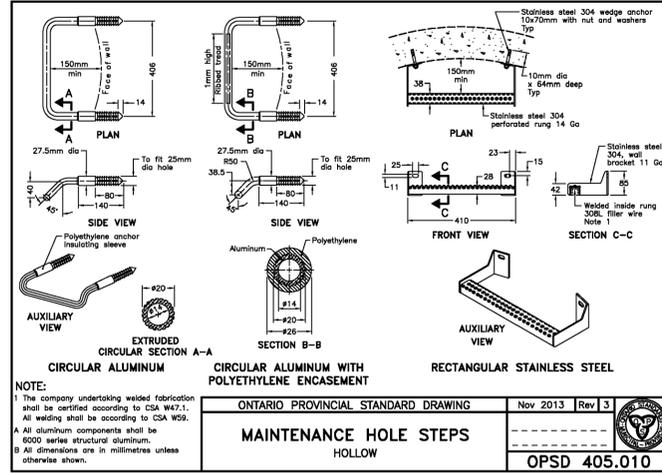
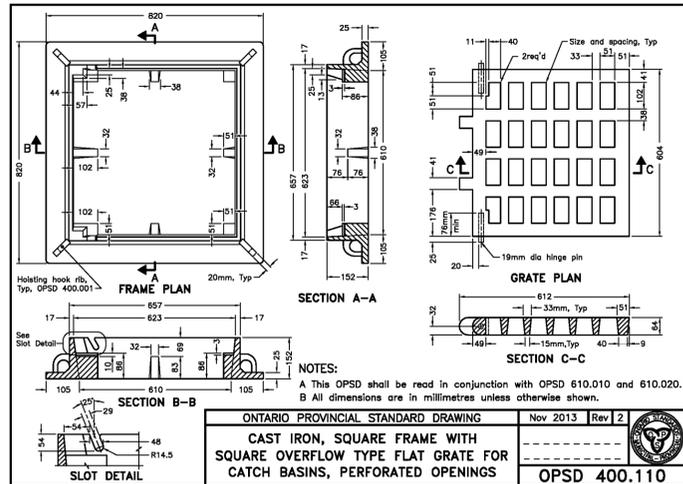
Project: **BWDSB NEW SCHOOL TOWNSHIP OF SOUTHGATE**

Drawing: **EROSION AND SEDIMENT CONTROL PLAN**

CROZIER

Drawn By: V.P. Design By: V.P./A.W./R.W. Project: **2243-7223**

Check By: A.W./R.W. Check By: A.W./R.W. Drawing: **C106**

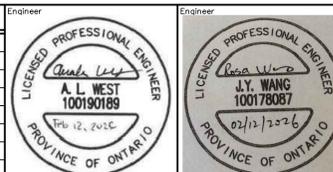


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BENCHMARKS

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5	ISSUED FOR 3rd SUBMISSION	2026/FEB/12



Engineer: **BWDSB NEW SCHOOL TOWNSHIP OF SOUTHGATE**
 Drawing: **ONTARIO PROVINCIAL STANDARD DRAWINGS**

CROZIER
 Drawn By: V.P. Design By: V.P./A.W./R.W. Project: **2243-7223**
 Check By: A.W./R.W. Check By: A.W./R.W. Drawing: **C107B**

SUMP DETAIL

ALTERNATIVES

A PRECAST MONOLITHIC BASE

B PRECAST SLAB BASE

C PRECAST FLAT CAP

NOTES:

- The sump is measured from the lowest invert.
- A 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.
- Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
- Pipe support shall be according to OPSD 708.020.
- For benching and pipe opening details, see OPSD 704.021.
- For adjustment unit and frame installation, see OPSD 704.010.
- All dimensions are nominal.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 5
PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER
 OPSD 701.010

ALTERNATIVES

A PRECAST MONOLITHIC BASE

B CAST-IN-PLACE BASE

C TAPERED TRANSITION SLAB

D 1200mm PRECAST FLAT CAP

E 1500mm PRECAST FLAT CAP

NOTES:

- For sump detail, see OPSD 701.010.
- A 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, 701.040, 701.041, 703.011, 703.021, and 706.010.
- Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020 or 404.021.
- Pipe support shall be according to OPSD 708.020.
- For benching and pipe opening details, see OPSD 704.021.
- For adjustment unit and frame installation, see OPSD 704.010.
- All dimensions are nominal.
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ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 5
PRECAST CONCRETE MAINTENANCE HOLE 1500mm DIAMETER
 OPSD 701.011

1. Right angle bend **2. Tee connection** **3. Three way junction**

4. Four way junction **5. Straight through** **6. Dead end**

7. Wye connection **8. 45° bend**

MAXIMUM SIZE HOLE IN THE WALL IN PRECAST RISER SECTIONS

Maintenance Hole Diameter	No. 1-4	No. 5 and 6	No. 8	No. 7
1200	700	880	780	700
1500	860	1220	960	860
1800	1220	1485	1220	1220
2400	1485	2020	1760	1485
3000	1930	2450	2300	1930
3600	2470	3085	2730	2470

NOTES:

- Slopes shall be maintained from the outlet hole opening for top of benching.
- Concrete for benching shall be 30MPa.
- When benching is hand-finished, it shall be given wood float finish, channel shall be given steel trowel finish.
- When specified, maintenance holes that are 1200mm in diameter with a uniform channel for 200 or 250mm pipe may be pre-benched at the manufacturer with standardized benching slope and channel orientation.
- All dimensions are nominal.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 4
MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES
 OPSD 701.021

ALTERNATE STANDARD HEIGHTS

ALTERNATE	DIMENSION
A	1980
B	1830
C	1520
D	1380

SECTION A-A **SECTION B-B**

NOTES:

- Outlet hole size 525mm diameter maximum, location as required.
- 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
- Centre reinforcing in base slab and walls 320mm.
- Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
- Pipe support shall be according to OPSD 708.020.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3
PRECAST CONCRETE CATCH BASIN 600x600mm
 OPSD 705.010

TABLE 1 - NUMBER OF RODS IN FRAME

PIPE DIA	No. of RODS
450	1
525	1
600	2
675	3
750	3
825	4
900	4
975	5
1050	6
1200	7

TABLE 2 - NUMBER OF RODS IN FIXED UPPER FRAME

PIPE DIA	No. of RODS
1350	1
1500	2
1650	3
1800	4
1950	5
2100	6
2250	7
2400	8

NOTES:

- Grates shall be secured by either a bolt and nut or a locking device as specified.
- Metal surfaces shall be either painted with 2 coats of self priming abrasion resistant immersion grade epoxy or hot dip galvanized, as specified.
- Frame, hinge strap, mounting bracket, and steel rods shall be medium grade steel.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 2
GRATING FOR CONCRETE ENDWALL
 OPSD 804.050

PLAN **BEAM DETAIL**

SECTION A-A **SECTION B-B**

NOTES:

- Outlet hole size 525mm diameter maximum, location as required.
- 200mm diameter knockout to accommodate subdrain. Knockout shall be 300mm or minimum clearance can be 150mm with addition of two 13M size rebar on 45 degree diagonals.
- Centre reinforcing in base slab and walls 320mm.
- Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
- Pipe support shall be according to OPSD 708.020.
- All dimensions are nominal.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3
PRECAST CONCRETE TWIN INLET CATCH BASIN 600 x 1450mm
 OPSD 705.020

SECTION B-B **SECTION A-A** **FRONT VIEW**

Alternate Standard Heights

Alternate	Dimension
A	1980
B	1520
C	1380

Opening Dimensions

Grates	Type	Slope	a	b
A	2x1/4	6/70	52	
B	3x1/4	6/32	71	
A	4x1/4	6/18	78	
B	6x1/4	6/8	83	
HOR	6/0	6/7		

NOTES:

- Outlet hole size 525mm maximum diameter, location as required.
- Where inlet is placed across ditch and is accessible to vehicular traffic, grating slope shall be 6H:1V or flatter.
- Centre reinforcing in well and side 325mm.
- Granular backfill shall be placed to a minimum thickness of 300mm all around the ditch inlet.
- Drilling shall be according to OPSD 403.010.
- Pipe support shall be according to OPSD 708.020.
- All dimensions are nominal.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3
PRECAST CONCRETE DITCH INLET 600 x 600mm
 OPSD 705.030

NOTES:

- Sewer service connections to the main pipe sewer shall be made using factory made tees or wyes, strap-on saddles, or other approved saddles.
- Cap or plug at property line shall be adequately braced.
- Maintenance holes shall be used at the main sewer to connect service connections greater than or equal to 200mm.
- For new construction, saddles shall be installed on the main pipe before that pipe is laid.
- Approved cut-in tool shall be used for field made connections.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2011 Rev 2
SEWER SERVICE CONNECTIONS FOR FLEXIBLE MAIN PIPE SEWER
 OPSD 1006.020

DETAIL A **DETAIL B** **DETAIL C** **DETAIL D**

NOTES:

- Depth of frost strap shall be as specified.
- Frost straps shall be placed so they do not interfere with sewer pipe openings and the steps.
- Frost straps shall be placed when specified.
- Galvanizing shall be according to CAN/CSA G164.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2010 Rev 2
FROST STRAP INSTALLATION
 OPSD 701.100

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Engineer
A. L. WEST
 100190189
 FEB 12, 2016
 PROVINCE OF ONTARIO

Engineer
J.Y. WANG
 100178087
 02/12/2026
 PROVINCE OF ONTARIO

Project
BWDSB NEW SCHOOL TOWNSHIP OF SOUTHGATE

Drawing
ONTARIO PROVINCIAL STANDARD DRAWINGS

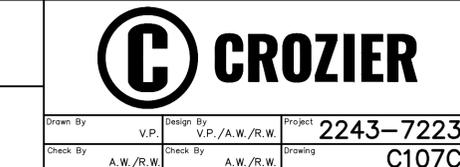
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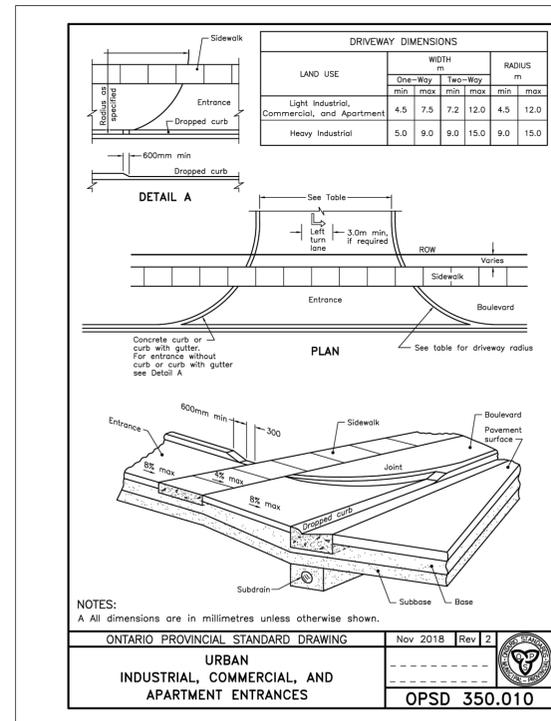
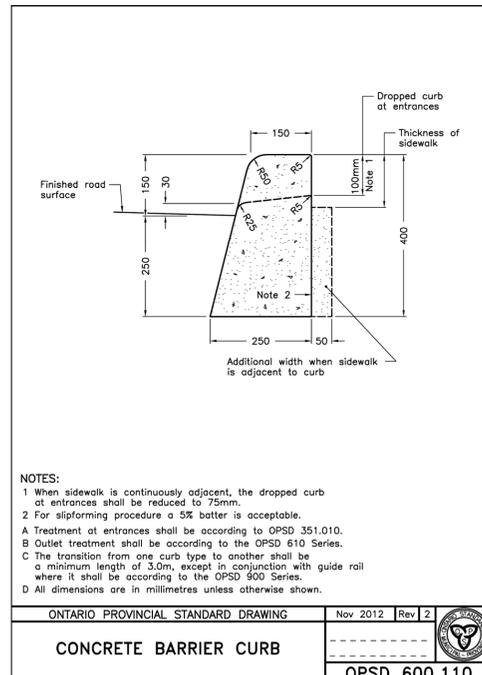
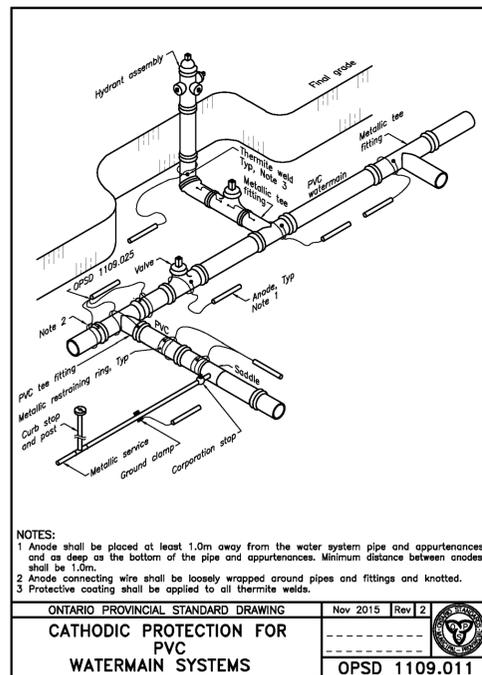
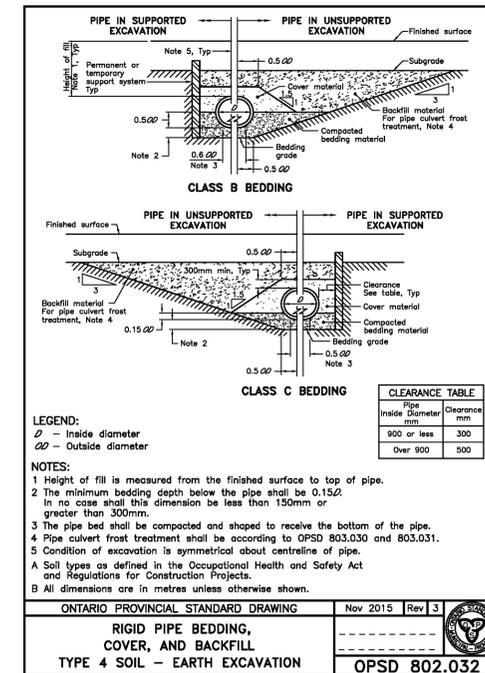
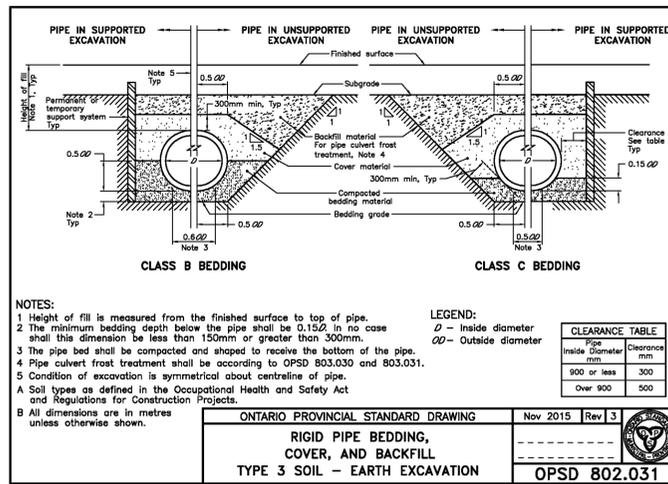
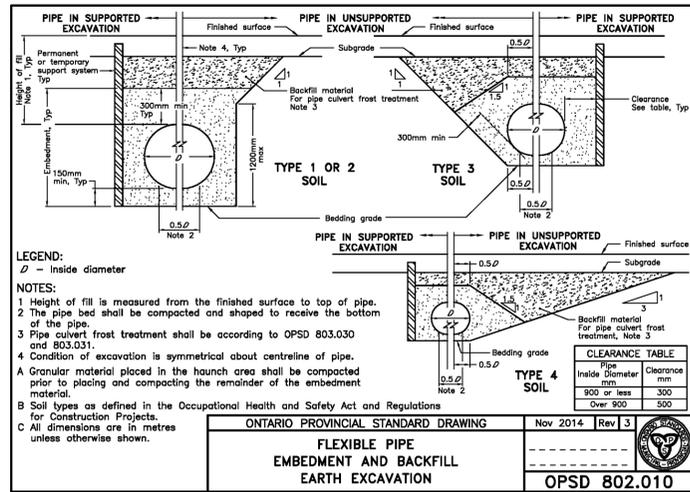
Design By
 V.P./A.W./R.W.

Project
2243-7223

Check By
 A.W./R.W.

Drawing
C107C





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Project: **BWDSB NEW SCHOOL TOWNSHIP OF SOUTHGATE**
 Drawing: **ONTARIO PROVINCIAL STANDARD DRAWINGS**



Drawn By: V.P. Design By: V.P./A.W./R.W. Project: **2243-7223**
 Check By: A.W./R.W. Check By: A.W./R.W. Drawing: **C107D**

PROJECT INFORMATION

ENGINEERED PRODUCT
MANAGER

ADS SALES REP

PROJECT NO

ADS
Advanced Drainage Systems, Inc.

ADS
SiteAssist
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VIB CHAMPS

SCHOOLBLOCK_APRIL2024

SOUTHGATE, ON, CANADA

SC-310 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-310
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
- CHAMBERS SHALL BE CERTIFIED TO CSA B104, "POLYMERIC SUB-SURFACE STORMWATER MANAGEMENT STRUCTURES"; AND MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE). STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPIDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 15.12 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE CSA S6 CL 625 TRUCK AND THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1) MIN AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER; 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1) WEEK, AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 52 mm (2").
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 8.2.4 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LB/FT² IN. AND 10) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 20° C / 70° F), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD. THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTION 15.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.33 FOR MANHOLE SIZING GUIDANCE. DUE TO THE ADAPTATION OF THE CHAMBER SYSTEM TO SPECIFIC SITE DESIGN CONDITIONS, IT MAY BE NECESSARY TO CUT AND COUPE ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS IN THE FIELD.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTECHNICAL PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

- STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310SC-740DC-780 CONSTRUCTION GUIDE". STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONE/HOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM .80 mm (3") SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE, AASHTO M43 #3, 357, 4, 467, 5, 58 OR 57.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310SC-740DC-780 CONSTRUCTION GUIDE".
 - THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED.
 - NO EQUIPMENT IS ALLOWED ON BASE CHAMBERS.
 - NO RUBBER TIRE LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310SC-740DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310SC-740DC-780 CONSTRUCTION GUIDE".
- FULL 900 mm (36") OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DRIVING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

StormTech®
Chamber System

SCALE = 1 : 200

SHEET
2 OF 5

PROPOSED LAYOUT	CONCEPTUAL ELEVATIONS	PART TYPE	ITEM ON LAYOUT	INVERT ABOVE BASE OF CHAMBER	
				INVERT	MAX FLOW
277 STORMTECH SC-310 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)	3.372			
278 STORMTECH SC-310 END CAP	MINIMUM ALLOWABLE GRADE (COVERED WITH TRAFFIC)	1.112			
293 STONE ABOVE	MINIMUM ALLOWABLE GRADE (UNPAVED TO TRAFFIC)	1.041			
294 STONE BELOW	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT)	1.041			
492 END CAP	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	1.041			
300A INSTALLED SYSTEM VOLUME (V)	TOP OF STONE	0.341			
	PRELIMINARY STONE INCLUDED	0.281			
	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300B MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300C MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300D MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300E MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300F MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300G MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300H MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300I MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300J MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300K MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300L MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300M MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300N MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300O MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300P MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300Q MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300R MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300S MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300T MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300U MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300V MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300W MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300X MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300Y MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			
300Z MANHOLE	TOP OF STONE	0.281			
	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	0.281			

NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET. NOT FOR CONSTRUCTION. THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVIDE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FILL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	ANY SOURCE/CRUSHED MATERIAL, NATIVE SOIL, OR PER ENGINEER'S PLANS. CHECK FOR PLACEMENT AT SUBGRADE REQUIREMENTS.	NA	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRONG MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE 'B' LAYER TO THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	GRANULAR, WELL-GRADED SOIL/AGGREGATE MATERIALS. 35% FINE OR PROCEDED AGGREGATE.	AASHTO M541 A-1, A2-4, A-3	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 1" (25 mm) MAX LIFT TO A MINIMUM PROCTOR DENSITY. WELL-GRADED MATERIAL AND/OR RELATIVE DENSITY FOR PROCEDED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 20,000 lbs (9t).
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE OR LAYERS TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETES.	AASHTO M43 3.357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETES.	AASHTO M43 3.357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.**

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR DRAGGATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR #4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 1" (25 mm) MAX LIFT USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.
- WHERE INSTALLATION SURFACE MAY BE COMPROMISED BY CONSTRUCTION FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAMPING OR DRAGGING WITHOUT CONSTRUCTION EQUIPMENT. FOR SPECIAL LOAD DESIGN, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOLS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".

NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE). STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS.
- SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING CAPACITY OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERMEABLE STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LB/FT² IN. THE ABC IS DEFINED IN SECTION 8.2.4 OF ASTM F2922 AND 10) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 20° C / 70° F), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SC-310 ISOLATOR ROW PLUS DETAIL

INSPECTION & MAINTENANCE

STEP 1: INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

- INSPECTION PORTS IF PRESENT
- REMOVE/OPEN LID ON INLET/OUTLET IN LINE DRAIN
- REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- USING A FLASHLIGHT AND STADIUM ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- LOWER CAMERA AND ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- IF SEDIMENT AT OR ABOVE 2" (50 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2: CLEAN OUT ISOLATOR ROW PLUS

- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
- USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
- WRENCH OR PLYER CHAMBERS MAY BE USED TO OPEN A COVERED SPACE ENTRY IF FOLLOWING REGULATIONS FOR COVERED SPACE ENTRY IF ENTERING MANHOLE IF SEDIMENT FLAT, OR ABOVE 2" (50 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 3: CLEAN OUT ISOLATOR ROW PLUS USING THE JETAC PROCESS

- A FINED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 40" (1.1 m) OR MORE IS PREFERRED
- APPLY MULTIPLE PASSES OF JETAC UNTIL MOSTLY CLEAR WATER IS CLEAN
- VACUUM STRUCTURE IF REQUIRED

STEP 4: REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS. RECORD OBSERVATIONS AND ACTIONS.

STEP 5: INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. AFTER THAT INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

SC-310 TECHNICAL SPECIFICATION

Part #	Stub	B	C
SC310E1P20TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P25TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P30TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P35TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P40TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P45TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P50TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P55TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P60TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P65TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P70TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P75TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P80TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P85TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P90TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P95TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P100TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)

NORMAL CHAMBER SPECIFICATIONS

Part #	Stub	B	C
SC310E1P20TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P25TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P30TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P35TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P40TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P45TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P50TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P55TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P60TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P65TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P70TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P75TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P80TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P85TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P90TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P95TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310E1P100TC	6" (150 mm)	3.5" (89 mm)	0.5" (13 mm)

ALL STUBS EXCEPT FOR THE SC310E2Z ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2664.

***FOR THE SC310E2Z THE 12" (300 mm) STUB IS BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 2.20" (56 mm) BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE 12" (300 mm) STUB SO THAT THE FITTING IS AT THE LEVEL.**

NOTE: ALL DIMENSIONS ARE NOMINAL. PRE-CORED END CAPS END WITH 1/4"

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<p>Drawn By: A.W. Design By: V.P./A.W. Project: 2243-7223</p> <p>Check By: A.W. Check By: A.W./R.W. Drawing: C107E</p>																				