TOWN OF CALEDON
PLANNING
RECEIVED
September 23, 2025

WATERMAIN PIPE CROSSING

No.	Details	No.	Details
1	STM INVERT=263.84 250Ø WATERMAIN OBVERT=263.34* VERTICAL SEPARATION=0.5m	18	STM INVERT=263.63 250Ø WATERMAIN OBVERT=263.13* VERTICAL SEPARATION=0.5m
2	SAN INVERT=263.43 250Ø WATERMAIN OBVERT=262.93* VERTICAL SEPARATION=0.5m	19	SAN INVERT=263.06 250Ø WATERMAIN OBVERT=262.56* VERTICAL SEPARATION=0.5m
3	STM INVERT=263.77 250Ø WATERMAIN OBVERT=263.27* VERTICAL SEPARATION=0.5m	20	SAN INVERT=263.19 250Ø WATERMAIN OBVERT=262.43 VERTICAL SEPARATION=0.76m
4	SAN INVERT=263.43 250Ø WATERMAIN OBVERT=262.93* VERTICAL SEPARATION=0.5m	21	STM INVERT=261.36 250Ø WATERMAIN OBVERT=260.86* VERTICAL SEPARATION=0.5m
5	STM INVERT=263.73 250Ø WATERMAIN OBVERT=263.23* VERTICAL SEPARATION=0.5m	22	250Ø WATERMAIN INVERT=263.32 STM OBVERT=262.53 VERTICAL SEPARATION=0.79m
6	STM INVERT=263.69 250Ø WATERMAIN OBVERT=263.19* VERTICAL SEPARATION=0.5m	23	250Ø WATERMAIN INVERT=263.29 STM OBVERT=262.64 VERTICAL SEPARATION=0.65m
7	STM INVERT=263.70 250Ø WATERMAIN OBVERT=263.20* VERTICAL SEPARATION=0.5m	24	SAN INVERT=263.46 250Ø WATERMAIN OBVERT=262.96* VERTICAL SEPARATION=0.5m
8	250Ø WATERMAIN INVERT=263.33 SAN OBVERT=262.86 VERTICAL SEPARATION=0.47m	25	STM INVERT=262.92 250Ø WATERMAIN OBVERT=262.42* VERTICAL SEPARATION=0.5m
9	250Ø WATERMAIN INVERT=263.29 SAN OBVERT=262.84 VERTICAL SEPARATION=0.45m	26	STM INVERT=262.97 250Ø WATERMAIN OBVERT=262.47* VERTICAL SEPARATION=0.5m
10	STM INVERT=263.82 250Ø WATERMAIN OBVERT=263.32* VERTICAL SEPARATION=0.5m	27	150Ø WATERMAIN INVERT=263.21 STM OBVERT=262.21 VERTICAL SEPARATION=1.0m
11	STM INVERT=263.82 250Ø WATERMAIN OBVERT=263.32* VERTICAL SEPARATION=0.5m	28	STM INVERT=262.96 250Ø WATERMAIN OBVERT=262.46* VERTICAL SEPARATION=0.5m
12	STM INVERT=263.82 250Ø WATERMAIN OBVERT=263.32* VERTICAL SEPARATION=0.5m	29	STM INVERT=262.96 250Ø WATERMAIN OBVERT=262.46* VERTICAL SEPARATION=0.5m
13	STM INVERT=263.82 250Ø WATERMAIN OBVERT=263.32* VERTICAL SEPARATION=0.5m	30	STM INVERT=262.63 250Ø WATERMAIN OBVERT=262.13* VERTICAL SEPARATION=0.5m
14	STM INVERT=262.66 250Ø WATERMAIN OBVERT=262.16* VERTICAL SEPARATION=0.5m	31	SAN INVERT=262.55 250Ø WATERMAIN OBVERT=262.05* VERTICAL SEPARATION=0.5m
15	250Ø WATERMAIN INVERT=262.90 SAN OBVERT=262.43 VERTICAL SEPARATION=0.47m	32	STM INVERT=263.50 250Ø WATERMAIN OBVERT=263.00* VERTICAL SEPARATION=0.5m
16	STM INVERT=263.75 250Ø WATERMAIN OBVERT=263.25* VERTICAL SEPARATION=0.5m	33	STM INVERT=260.95 250Ø WATERMAIN OBVERT=260.45* VERTICAL SEPARATION=0.5m
17	250Ø WATERMAIN INVERT=263.16 SAN OBVERT=262.71 VERTICAL SEPARATION=0.45m		*DENOTES WATERMAIN TO BE DEFLECTED

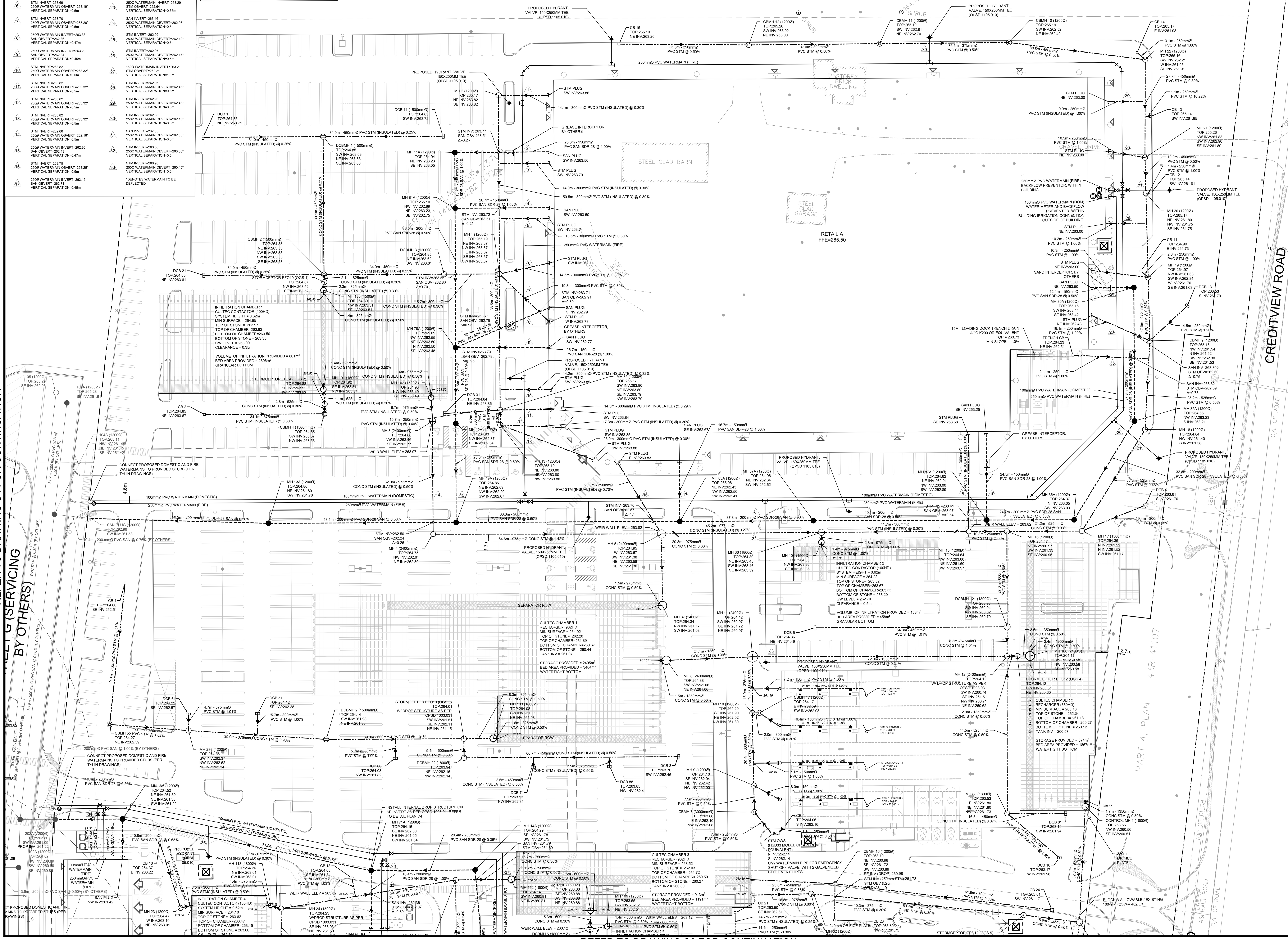
ALL SEWERS LESS THAN 1.0M DEPTH TO BE CONCRETE AND INSULATED UNLESS OTHERWISE NOTED.

WATERMAIN TO MAINTAIN MINIMUM 0.5m SEPARATION FROM SANITARY OR STORM SEWERS. WATERMAIN TO BE DEFLECTED BELOW SEWER WHERE NECESSARY/APPLICABLE.

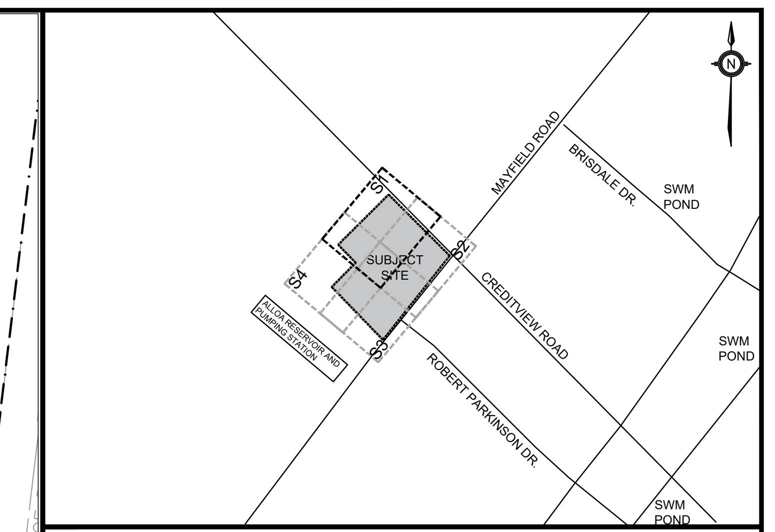
(NOT PART OF THIS APPLICATION)

SITE	REQ QUANTITY VOL.	REQ. RETAIN VOL.	PROVIDED QUANTITY	PROVIDED RETAINED
BLOCK A	3261m^3	949m^3	3279m³	959m³

STORMWATER MANAGEMENT SUMMARY



REFER TO DRAWING S2 FOR CONTINUATION



KEY PLAN
N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

Symbol	Description
— — —	PROPOSED PROPERTY LINE
- - -▶- - -	PROPOSED SANITARY SEWER
—·—▶—·—	PROPOSED STORM SEWER
——	PROPOSED WATERMAIN
- - - -	PROPOSED SANITARY SEWER (BY OTHERS)
—·—·—	PROPOSED STORM SEWER (BY OTHERS)
——	PROPOSED WATERMAIN (BY OTHERS)
—SA—SA—	EXISTING SANITARY SEWER
—ST—ST—	EXISTING STORM SEWER
—W—W—	EXISTING WATERMAIN
●	PROPOSED SAN MH
●	PROPOSED SAN MH (BY OTHERS)
○ ⊙	PROPOSED STM MH / OGS
○	PROPOSED STM MH (BY OTHERS)
◫ ⊕ □ ▭	PROPOSED STM CB/CBMH
○	EXISTING STM MH
◍	EXISTING SAN MH
✦	PROPOSED HYDRANT
Ⓜ ⋈	DETECTOR CHECK VALVE / VALVE&BOX

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

NOT FOR CONSTRUCTION

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF KWA. THE REPRODUCTION OF ANY PART WITHOUT PRIOR WRITTEN CONSENT FROM KWA IS STRICTLY PROHIBITED.
2. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER DRAWINGS AND DOCUMENTS APPLICABLE TO THIS PROJECT.
3. THIS DRAWING IS NOT TO BE ISSUED FOR CONSTRUCTION UNTIL ALL REQUIRED PERMITS HAVE BEEN ISSUED.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS AND DATA ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO KWA 48 HOURS PRIOR TO ANY CONSTRUCTION.

KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

SERVICING PLAN

SCALE:	1:500 10m	PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	S1
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

SPA 2024-0092

File : G:\Projects\24045_Fieldgate Caledon\4. Drawings\3. Design Drawings\24045 - SERVICING PLAN - KWA.dwg, Layout : S1 Date :Sep 18, 2025 - 8:26am, Edit By : Ted

REFER TO DRAWING S1 FOR CONTINUATION

REFER TO DRAWING S3 & S4 FOR CONTINUATION

WATERMAIN PIPE CROSSING

2500 WATERMAIN INVERT=262.49 SAN OBVERT=261.39 VERTICAL SEPARATION=1.1m	STM INVERT=262.78 2500 WATERMAIN OBVERT=262.28* VERTICAL SEPARATION=0.5m
2500 WATERMAIN INVERT=262.44 SAN OBVERT=261.68 VERTICAL SEPARATION=0.76m	SAN INVERT=262.50 2500 WATERMAIN OBVERT=262.00* VERTICAL SEPARATION=0.5m
2500 WATERMAIN INVERT=262.14 SAN OBVERT=261.96 VERTICAL SEPARATION=0.76m	STM INVERT=262.81 2500 WATERMAIN OBVERT=262.31* VERTICAL SEPARATION=0.5m
2500 WATERMAIN INVERT=262.12 STM OBVERT=261.56 VERTICAL SEPARATION=0.56m	SAN INVERT=263.01 2500 WATERMAIN OBVERT=262.51* VERTICAL SEPARATION=0.5m
SAN INVERT=261.15 2500 WATERMAIN OBVERT=261.65* VERTICAL SEPARATION=0.5m	STM INVERT=261.37 2500 WATERMAIN OBVERT=260.87* VERTICAL SEPARATION=0.5m
STM INVERT=262.93 2500 WATERMAIN OBVERT=262.43* VERTICAL SEPARATION=0.5m	

WATERMAIN TO MAINTAIN MINIMUM 0.5m SEPARATION FROM SANITARY OR STORM SEWERS. WATERMAIN TO BE DEFLECTED BELOW SEWER WHERE NECESSARY/APPLICABLE.

STREET G (SERVICING BY OTHERS)

MAYFIELD ROAD (PEEL REGION RD. 14)

CREDITVIEW ROAD

ROBERT PARKINSON DRIVE

RETAIL B1 FFE=265.50

RETAIL B2 FFE=264.50

RETAIL B3 FFE=264.00

RETAIL B4 FFE=264.00

RETAIL B5 FFE=264.00

SEPARATOR ROW

CULTEC CHAMBER 1 RECHARGER (902HD) MIN SURFACE = 264.02 TOP OF STONE= 262.20 TOP OF CHAMBER=261.89 BOTTOM OF CHAMBER=260.67 BOTTOM OF STONE = 260.44 TANK INV = 261.07

STORAGE PROVIDED = 2405m³ BED AREA PROVIDED = 3484m² WATERTIGHT BOTTOM

CULTEC CHAMBER 2 RECHARGER (902HD) MIN SURFACE = 263.18 TOP OF STONE= 262.34 TOP OF CHAMBER= 261.18 BOTTOM OF CHAMBER= 260.27 BOTTOM OF STONE = 260.12 TANK INV = 260.57

STORAGE PROVIDED = 874m³ BED AREA PROVIDED = 1867m² WATERTIGHT BOTTOM

INFILTRATION CHAMBER 4 CULTEC CONTACTOR (100HD) SYSTEM HEIGHT = 0.6m MIN SURFACE = 264.10 TOP OF STONE= 263.62 TOP OF CHAMBER=263.47 BOTTOM OF CHAMBER=263.15 BOTTOM OF STONE = 263.02 CLEARANCE = 0.5m

VOLUME OF INFILTRATION PROVIDED = 139m³ BED AREA PROVIDED = 401m² GRANULAR BOTTOM

INFILTRATION CHAMBER 3 CULTEC CONTACTOR (100HD) SYSTEM HEIGHT = 0.62m MIN SURFACE = 263.12 TOP OF STONE= 262.52 TOP OF CHAMBER=262.37 BOTTOM OF CHAMBER=262.05 BOTTOM OF STONE = 262.50 CLEARANCE = 0.5m

VOLUME OF INFILTRATION PROVIDED = 198m³ BED AREA PROVIDED = 571m² GRANULAR BOTTOM

INFILTRATION CHAMBER 2 CULTEC CONTACTOR (100HD) SYSTEM HEIGHT = 0.62m MIN SURFACE = 264.22 TOP OF STONE= 263.62 TOP OF CHAMBER=263.67 BOTTOM OF CHAMBER=263.35 BOTTOM OF STONE = 263.20 GW LEVEL = 262.70 CLEARANCE = 0.5m

VOLUME OF INFILTRATION PROVIDED = 158m³ BED AREA PROVIDED = 458m² GRANULAR BOTTOM

CULTEC CHAMBER 3 RECHARGER (902HD) MIN SURFACE = 263.32 TOP OF STONE= 262.03 TOP OF CHAMBER= 261.72 BOTTOM OF CHAMBER= 260.50 BOTTOM OF STONE = 260.27 TANK INV = 260.80

STORAGE PROVIDED = 913m³ BED AREA PROVIDED = 1191m² WATERTIGHT BOTTOM

CB 1 TOP=264.60 SE INV=262.51

CB-C-1 TOP=264.84 SW INV=263.80

CBMH-C-12 (1200ØD) TOP=264.71 NW INV=263.46 SW INV=263.40

MH-16A (1200ØD) TOP=264.62 NE INV=261.39 SE INV=261.35 SW INV=261.22

MH-15A (1200ØD) TOP=264.72 NW INV=260.98 NE INV=260.88

201A (1200ØD) TOP=263.80 SW INV=261.09 PROP INV=261.22

202A (1200ØD) TOP=263.80 NW INV=260.98 SW INV=260.88

102A (1200ØD) TOP=264.62 NW INV=260.98 SW INV=260.88

CB 16 TOP=264.37 E INV=263.22

MH 23 (1200ØD) TOP=263.80 W INV=263.10 NE INV=263.01

MH 24 (1200ØD) TOP=264.23 W/DROP STRUCTURE AS PER OPSD 1003.031 SE INV=263.03 NW INV=261.90 SW INV=263.03

CB 17 TOP=264.11 SW INV=263.06

MH 25 (1200ØD) TOP=264.11 SE INV=263.06 SW INV=263.06 NE INV=263.06 NW INV=263.06

MH 26 (1200ØD) TOP=264.31 SW INV=261.29 SE INV=260.90 NE INV=260.80 SW INV=261.29

MH 27 (1500mmØ) TOP=264.19 SE INV=261.03 NE INV=261.03 NW INV=261.00

CB 20 TOP=264.08 SW INV=261.24

MH 28 (1200ØD) TOP=263.67 E INV=261.24 NW INV=261.18

CB 19 TOP=263.27 W INV=261.27

MH 29 (2400mmØ) TOP=263.65 NE INV=262.51 SW INV=262.51

MH 104 (1500ØD) TOP=264.83 NW INV=263.36 SE INV=263.36

MH 36 (1800ØD) TOP=264.89 NE INV=263.45 SW INV=263.46 SE INV=263.39

MH 37 (2400ØD) TOP=264.34 NW INV=261.17 SW INV=261.08

MH 5 (2400mmØ) TOP=264.95 W INV=263.67 SW INV=261.38 NE INV=263.58 SE INV=263.30

MH 4 (2400mmØ) TOP=264.75 NW INV=262.61 NE INV=262.30

MH 13 (1200ØD) TOP=265.19 NE INV=263.80 NW INV=263.60

MH 13A (1200ØD) TOP=264.80 NE INV=261.80 SW INV=261.78

MH 49A (1200ØD) TOP=264.85 NE INV=262.09 NW INV=262.20 SW INV=262.07

MH 83A (1200ØD) TOP=265.06 NE INV=262.43 NW INV=262.50 SW INV=262.41

MH 37A (1200ØD) TOP=264.80 NE INV=262.64 SW INV=262.62

MH 87A (1200ØD) TOP=264.82 NE INV=262.91 NW INV=263.00 SW INV=262.89

MH 36A (1200ØD) TOP=264.37 N INV=263.92 SW INV=263.03 SE INV=263.04

MH 15 (1200ØD) TOP=264.64 NW INV=263.60 NE INV=261.60 SW INV=263.57

MH 16 (1200ØD) TOP=264.97 NE INV=260.97 SW INV=261.33 SE INV=260.95

MH 17 (1500mmØ) TOP=264.96 N INV=261.22 N INV=261.32 SW INV=261.17

DCBMH T21 (1800ØD) TOP=263.98 SW INV=260.94 NW INV=260.82 SE INV=260.79

MH 12 (2400mmØ) TOP=264.12 W DROP STRUCTURE AS PER OPSD 1003.031 SW INV=260.74 NW INV=260.71 NE INV=260.62

MH 10 (1200ØD) TOP=264.20 NE INV=261.90 NW INV=262.02 SW INV=261.80

MH 9 (1200ØD) TOP=264.10 SE INV=262.04 NE INV=262.42 NW INV=262.00

MH 88 (1800ØD) TOP=263.53 E INV=261.80 NE INV=261.80 NW INV=261.73

CBMH 7 (3000mmØ) TOP=263.88 E INV=262.50 NW INV=262.08

CB 3 TOP=264.06 S INV=262.16

CBMH 16 (1200ØD) TOP=263.79 NW INV=260.98 SE INV=261.72 SW INV=260.89 NE INV=(DROP)260.98

STM INV (250mm STM)=261.73 STM INV (525mm STM)=261.19

CB 24 TOP=263.01 SW INV=261.17

CB 21 TOP=263.50 NE INV=261.61 SW INV=261.52

MH 52 (1200ØD) TOP=263.78 NW INV=260.09

MH 30 (1200ØD) TOP=263.58 NE INV=262.55 NW INV=262.57 SE INV=262.73 SW INV=262.55

CB 23 TOP=263.50 NW INV=261.75

MH 33 (1800mmØ) TOP=263.58 SW INV=260.45 NE INV=260.35 SE INV=260.35

MH 31 (1200ØD) TOP=263.73 E INV=262.80 SW INV=262.78

DCB 4 TOP=263.61 S INV=261.07

DCB 5 TOP=264.09 NW INV=263.19

DCB 6 TOP=264.36 NE INV=261.49

DCB 51 TOP=264.12 SE INV=262.29

DCB 52 TOP=264.22 SE INV=262.57

DCB 66 TOP=264.03 NW INV=261.82

DCB 71 TOP=263.93 NW INV=262.31

DCB 88 TOP=263.85 NW INV=262.41

DCB 81 TOP=263.19 SW INV=261.94

DCB 16 TOP=263.17 W INV=261.96

DCBMH 2 (1500mmØ) TOP=264.14 SW INV=261.58 NE INV=261.90

DCBMH 17 (1200ØD) TOP=264.17 E INV=262.59 SW INV=262.03

DCBMH 12 (1800mmØ) TOP=264.34 SW INV=261.06 NW INV=261.06 SE INV=261.06

DCBMH 22 (1800ØD) TOP=264.20 NW INV=262.02 NE INV=261.80

STORMCEPTOR EFO12 (OGS 5) TOP=263.50 SW INV=261.15 NW INV=260.50

STORMCEPTOR EFO12 (OGS 4) TOP=264.12 NW INV=261.06 NE INV=260.60

SAW CUT EXISTING ASPHALT

PROPOSED HYDRANT, VALVE, 150X250MM TEE (OPSD 1105.010)

PROPOSED HYDRANT, VALVE, 150X250MM TEE (OPSD 1105.010)

PROPOSED HYDRANT, VALVE, 150X150MM TEE (OPSD 1105.010)

PROPOSED HYDRANT, VALVE, 150X150MM TEE (OPSD 1105.010)

STM OWS (HS03) MODEL OF APPROVED EQUIVALENT

CW WATERMAIN PIPE FOR EMERGENCY SHUT OFF VALVE, WITH 2 GALVENIZED STEEL VENT PIPES.

INSTALL INTERNAL DROP STRUCTURE ON STM INVERT AS PER OPSD 1003.01. REFER TO DETAIL PLAN D4.

PROPOSED DOMESTIC AND FIRE WATERMAIN TO PROVIDED STUBS (PER TYLIN DRAWINGS)

CONNECT PROPOSED DOMESTIC AND FIRE WATERMAINS TO PROVIDED STUBS (PER TYLIN DRAWINGS)

CONNECT PROPOSED DOMESTIC AND FIRE WATERMAINS TO PROVIDED STUBS (PER TYLIN DRAWINGS)

MUNICIPAL SANITARY SEWER AND WATERMAIN WITHIN FUTURE PUBLIC RIGHT-OF-WAY ARE NOT PART OF THIS APPLICATION

BLOCK C ALLOWABLE / EXISTING 100-YR FLOW = 139.8 L/s

BLOCK A ALLOWABLE / EXISTING 100-YR FLOW = 402 L/s

BLOCK A/B COMBINED ALLOWABLE / EXISTING 100-YR FLOW = 538.1 L/s

BLOCK B ALLOWABLE / EXISTING 100-YR FLOW = 136 L/s

90m HYDRANT COVERAGE RADIUS (TYP.)

PROP. RIP-RAP TREATMENT TO BE BE REPLACED WITH STORM MANHOLE DISCUSSION AND CONFIRMATION WITH REGION OF PEEL OUTSTANDING

CONCRETE ENCASED PIPE CROSSING

SUBJECT TO AN EASEMENT IN INSTRUMENT No. CH27917

PART 3, PLAN 43R-41107

EXPROPRIATION PLAN 30500

PART 4, PLAN 43R-41107

PART 2 PLAN 43R-41107

PIN 142

EX. 600mm CCP WM

EX. 1050mm CCP WM

FUT. STM OGS (B.O)

FUT. STM MH (B.O)

FUT. 525mm STM (B.O)

FUT. DCB (B.O)

FUT. STM INFILTRATION GALLERY (B.O)

MOST EASTERLY CORNER OF LOT 6, CONCESSION 4, WEST OF HURONTARIO STREET

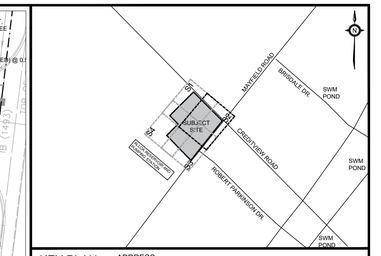
THE EXISTING SERVICING PORTRAYED ON THIS DRAWING ARE BASED ON THE FOLLOWING RECORD DRAWINGS PROVIDED BY THE REGION OF PEEL, TOWN OF CALEDON, AND CITY OF BRAMPTON:

- C1-4-5 (307) BY URBANTECH, DATED FEBRUARY 2020 (SAN)
- C1-4-7 (309) BY URBANTECH, DATED FEBRUARY 2020 (STM)
- C1-9-1 (306) BY URBANTECH, DATED FEBRUARY 2020 (STM)
- C1-12-5 BY CITY OF BRAMPTON, DATED OCTOBER 2016 (STM)
- 101 (SITE SERVICING PLAN) BY URBANTECH DATED JANUARY 2020 (STM)
- 48104-D BY COLE ENGINEERING, DATED JUNE 2016 (WAT)
- 48105-D BY COLE ENGINEERING, DATED JUNE 2016 (WAT)
- 48106-D BY COLE ENGINEERING, DATED JUNE 2016 (WAT)

THE INFORMATION PROVIDED ABOVE IS BELIEVED TO BE ACCURATE FOR THE PURPOSES OF EXISTING CIVIL INFRASTRUCTURE, HOWEVER FURTHER INVESTIGATION REGARDING EXISTING STORM INFRASTRUCTURE MAY BE REQUIRED TO EVALUATE THE ACCURACY OF THE EXISTING CONDITION

SITE	REQ QUANTITY VOL.	REQ. RETAIN VOL.	PROVIDED QUANTITY	PROVIDED RETAINED
BLOCK B	907.6m³	324.5m³	913m³	337m³

STORMWATER MANAGEMENT SUMMARY



KEY PLAN N.T.S.

ADDRESS: 12100 CREDITVIEW ROAD CALEDON, ONTARIO

LEGEND

- PROPOSED PROPERTY LINE
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATERMAIN
- PROPOSED SANITARY SEWER (BY OTHERS)
- PROPOSED STORM SEWER (BY OTHERS)
- PROPOSED WATERMAIN (BY OTHERS)
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- PROPOSED SAN MH
- PROPOSED SAN MH (BY OTHERS)
- PROPOSED STM MH / OGS
- PROPOSED STM MH (BY OTHERS)
- PROPOSED STM CB/CBMH
- EXISTING STM MH
- EXISTING SAN MH
- PROPOSED HYDRANT
- DETECTOR CHECK VALVE / VALVE&BOX

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS AND DATA ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO KWA 48 HOURS PRIOR TO ANY CONSTRUCTION.

KWA SITE DEVELOPMENT CONSULTING INC. 2453
AUCKLAND DRIVE
BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

SERVICING PLAN

SCALE:	1:500 (10m)	PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	S2
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

SPA 2024-0092

File: G:\Projects\24045_Fieldgate Caledon\4_Drawings_Design Drawings\24045 - SERVICING PLAN - KWA.dwg Layout: S2 Date: Sep 18, 2025 - 12:10pm Edit By: Ted

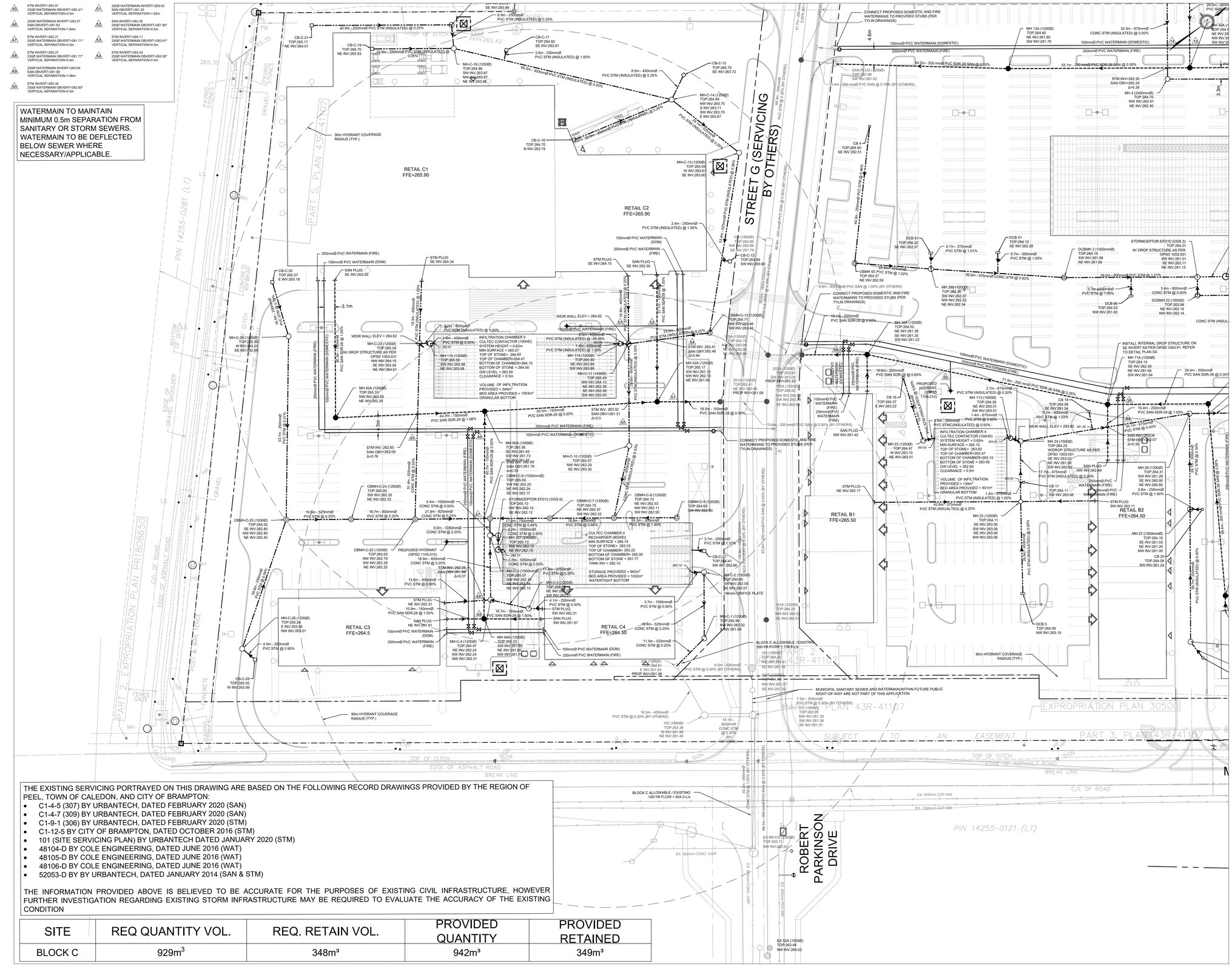
REFER TO DRAWING S1 & S4 FOR CONTINUATION

REFER TO DRAWING S2 FOR CONTINUATION

WATERMAIN PIPE CROSSING

A5	STM INVERT=262.91 250Ø WATERMAIN OBVERT=262.41* VERTICAL SEPARATION=0.5m	A1	250Ø WATERMAIN INVERT=263.03 SAN OBVERT=261.20 VERTICAL SEPARATION=1.83m
A6	250Ø WATERMAIN INVERT=263.27 SAN OBVERT=261.63 VERTICAL SEPARATION=1.64m	A2	SAN INVERT=262.35 250Ø WATERMAIN OBVERT=261.85* VERTICAL SEPARATION=0.5m
A7	STM INVERT=262.71 250Ø WATERMAIN OBVERT=261.71* VERTICAL SEPARATION=0.5m	A3	STM INVERT=264.11 250Ø WATERMAIN OBVERT=263.61* VERTICAL SEPARATION=0.5m
A8	STM INVERT=262.27 250Ø WATERMAIN OBVERT=261.77* VERTICAL SEPARATION=0.5m	A4	STM INVERT=263.43 250Ø WATERMAIN OBVERT=262.93* VERTICAL SEPARATION=0.5m
A9	250Ø WATERMAIN INVERT=263.05 SAN OBVERT=261.99 VERTICAL SEPARATION=1.06m		
A10	STM INVERT=263.30 250Ø WATERMAIN OBVERT=262.80* VERTICAL SEPARATION=0.5m		

WATERMAIN TO MAINTAIN MINIMUM 0.5m SEPARATION FROM SANITARY OR STORM SEWERS. WATERMAIN TO BE DEFLECTED BELOW SEWER WHERE NECESSARY/APPLICABLE.



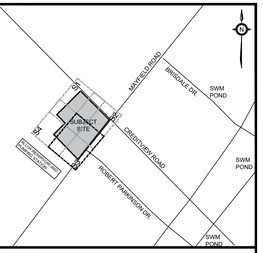
THE EXISTING SERVICING PORTRAYED ON THIS DRAWING ARE BASED ON THE FOLLOWING RECORD DRAWINGS PROVIDED BY THE REGION OF PEEL, TOWN OF CALEDON, AND CITY OF BRAMPTON:

- C1-4-5 (307) BY URBANTECH, DATED FEBRUARY 2020 (SAN)
- C1-4-7 (309) BY URBANTECH, DATED FEBRUARY 2020 (SAN)
- C1-9-1 (306) BY URBANTECH, DATED FEBRUARY 2020 (STM)
- C1-12-5 BY CITY OF BRAMPTON, DATED OCTOBER 2016 (STM)
- 101 (SITE SERVICING PLAN) BY URBANTECH DATED JANUARY 2020 (STM)
- 48104-D BY COLE ENGINEERING, DATED JUNE 2016 (WAT)
- 48105-D BY COLE ENGINEERING, DATED JUNE 2016 (WAT)
- 48106-D BY COLE ENGINEERING, DATED JUNE 2016 (WAT)
- 52053-D BY BY URBANTECH, DATED JANUARY 2014 (SAN & STM)

THE INFORMATION PROVIDED ABOVE IS BELIEVED TO BE ACCURATE FOR THE PURPOSES OF EXISTING CIVIL INFRASTRUCTURE, HOWEVER FURTHER INVESTIGATION REGARDING EXISTING STORM INFRASTRUCTURE MAY BE REQUIRED TO EVALUATE THE ACCURACY OF THE EXISTING CONDITION

STORMWATER MANAGEMENT SUMMARY

SITE	REQ QUANTITY VOL.	REQ. RETAIN VOL.	PROVIDED QUANTITY	PROVIDED RETAINED
BLOCK C	929m³	348m³	942m³	349m³



KEY PLAN
N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

- PROPOSED PROPERTY LINE
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATERMAIN
- PROPOSED SANITARY SEWER (BY OTHERS)
- PROPOSED STORM SEWER (BY OTHERS)
- PROPOSED WATERMAIN (BY OTHERS)
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- PROPOSED SAN MH
- PROPOSED SAN MH (BY OTHERS)
- PROPOSED STM MH / OGS
- PROPOSED STM MH (BY OTHERS)
- PROPOSED STM CB/CBMH
- EXISTING STM MH
- EXISTING SAN MH
- PROPOSED HYDRANT
- DETECTOR CHECK VALVE / VALVE&BOX

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

NOT FOR CONSTRUCTION

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4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS AND DATA ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO KWA 48 HOURS PRIOR TO ANY CONSTRUCTION.

KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

SERVICING PLAN

SCALE:	1:500 (10m)	PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	S3
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

SPA 2024-0092

File: G:\Projects\24045_Feldgate Caledon\4_Drawings\3_Design Drawings\24045 - SERVICING PLAN - KWA.dwg, Layout: S3 Date: Sep 18, 2025 - 12:19pm, Edit By: Ted

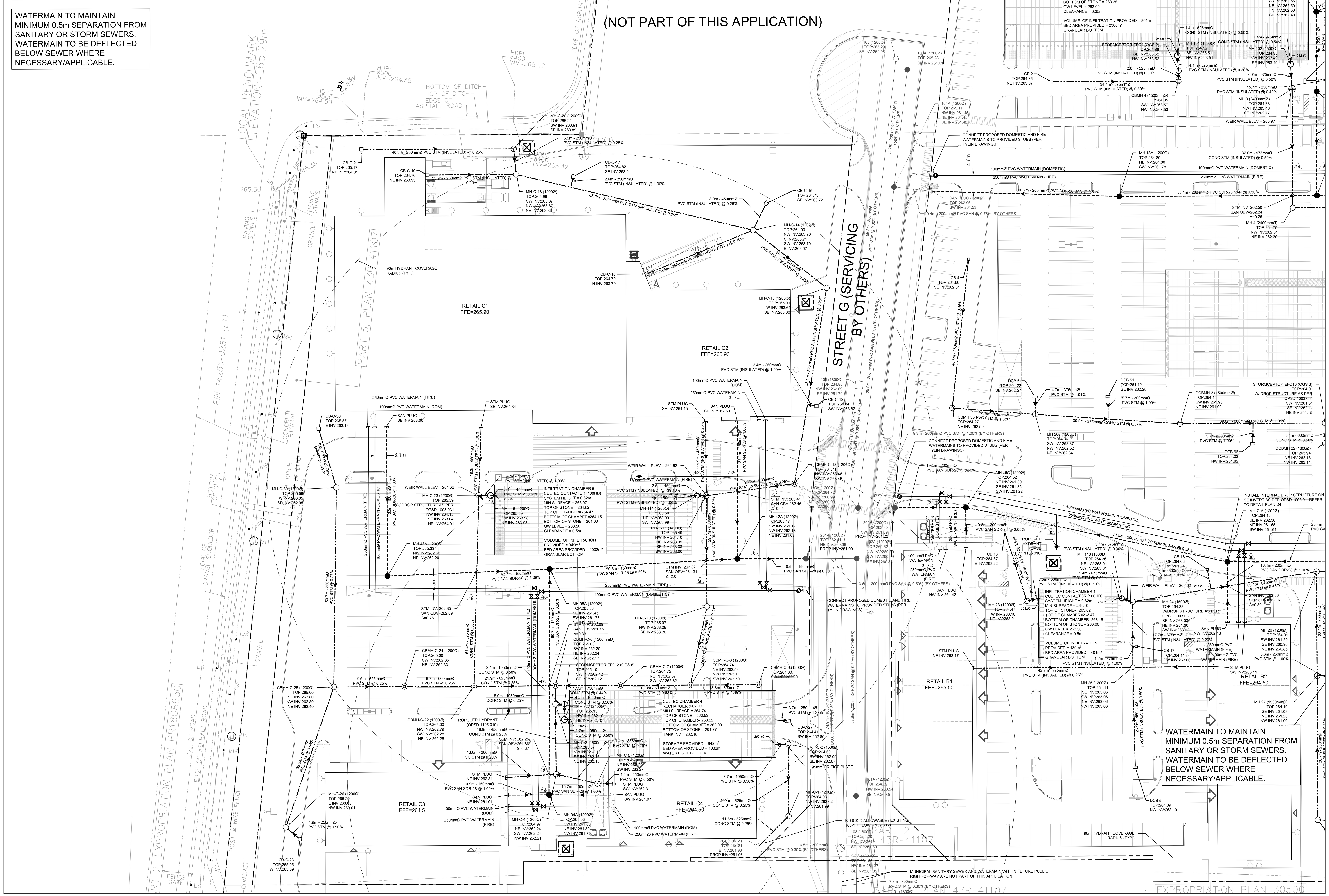
REFER TO DRAWING S1 FOR CONTINUATION

THE EXISTING SERVICING PORTRAYED ON THIS DRAWING ARE BASED ON THE FOLLOWING RECORD DRAWINGS PROVIDED BY THE REGION OF PEEL, TOWN OF CALEDON, AND CITY OF BRAMPTON:

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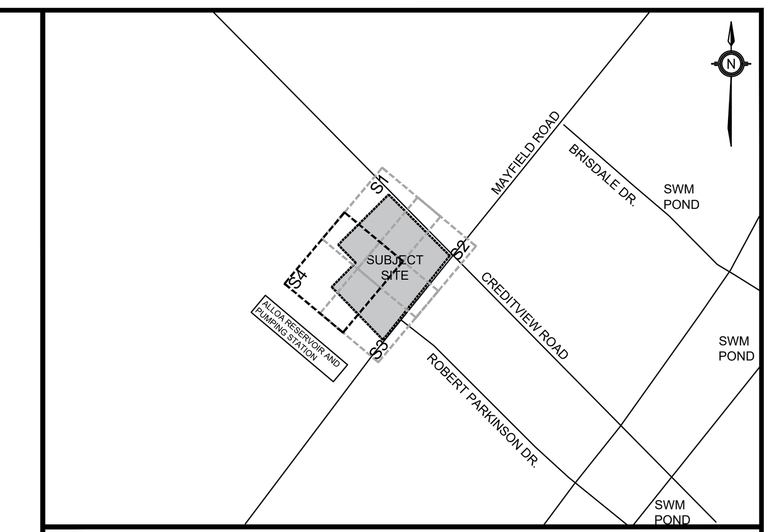
WATERMAIN TO MAINTAIN MINIMUM 0.5m SEPARATION FROM SANITARY OR STORM SEWERS. WATERMAIN TO BE DEFLECTED BELOW SEWER WHERE NECESSARY/APPLICABLE.



WATERMAIN TO MAINTAIN MINIMUM 0.5m SEPARATION FROM SANITARY OR STORM SEWERS. WATERMAIN TO BE DEFLECTED BELOW SEWER WHERE NECESSARY/APPLICABLE.

REFER TO DRAWING S2 FOR CONTINUATION

REFER TO DRAWING S3 FOR CONTINUATION



KEY PLAN
N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

— — —	PROPOSED PROPERTY LINE
- - -▶- - -	PROPOSED SANITARY SEWER
-··-▶-··-	PROPOSED STORM SEWER
———	PROPOSED WATERMAIN
- - - - -	PROPOSED SANITARY SEWER (BY OTHERS)
-··-··-	PROPOSED STORM SEWER (BY OTHERS)
———	PROPOSED WATERMAIN (BY OTHERS)
—SA—SA—SA—	EXISTING SANITARY SEWER
—ST—ST—ST—	EXISTING STORM SEWER
—W—W—W—	EXISTING WATERMAIN
●	PROPOSED SAN MH
●	PROPOSED SAN MH (BY OTHERS)
○ ⊙	PROPOSED STM MH / OGS
○	PROPOSED STM MH (BY OTHERS)
◎ ⊕ □ ▭	PROPOSED STM CB/CBMH
○	EXISTING STM MH
◍	EXISTING SAN MH
✦	PROPOSED HYDRANT
Ⓜ ⋈	DETECTOR CHECK VALVE / VALVE&BOX

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

SERVICING PLAN

SCALE:	1:500 (10m)	PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	S4
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

SPA 2024-0092

File : G:\Projects\24045_Fieldgate Caledon\4. Drawings\3. Design Drawings\24045 - SERVICING PLAN - KWA.dwg, Layout : S4 Date :Sep 18, 2025 - 12:11pm, Edit By : Ted

(NOT PART OF THIS APPLICATION)

(NOT PART OF THIS APPLICATION)

STREET 'G'
(NOT PART OF THIS APPLICATION)

CREDITVIEW ROAD
(FORMERLY KNOWN AS CREDITVIEW ROAD ALLOWANCE BETWEEN CONCESSIONS 3 AND 4)
PIN 14252-0124 (LT)

PART OF PIN 14252-0222 (LT)

STEEL CLAD BARN

STEEL CLAD GARAGE

BRICK DWELLING

GRAVEL DRIVE

EXISTING STRUCTURES AND DRIVEWAY TO BE REMOVED

EXISTING HYDRO POLE

EXISTING HYDRO POLE

RETAIL A
FFE=265.50

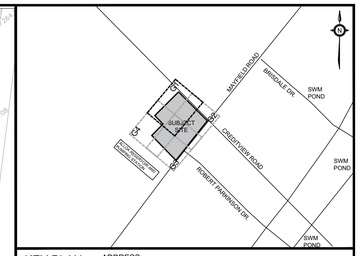
265.50

264.23

PROPOSED ENTRANCE PER REGION STD. DWG. 5-1-8

PROPOSED ENTRANCE PER REGION STD. DWG. 5-1-8

REFER TO DRAWING G2 FOR CONTINUATION



KEY PLAN
N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

- PROPOSED ITEMS
- EXISTING ITEMS
- LIMIT OF PROPERTY LINE
- LIMIT OF CONSTRUCTION
- LIMIT OF BUILDING STRUCTURE
- BUILDING ENTRANCE
- PROP ELEVATION TO MATCH EXISTING
- EMERGENCY OVERLAND FLOW ROUTE
- SANITARY MH
- STM MH / CBMH / DCBMH / OGS
- CB / DCB / AD / TD
- HYDRANT / SIAMESE / METER CHAMBER
- VALVE BOX / VALVE CHAMBER
- HD PAVEMENT

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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SITE PLAN:	TURNER FLEISCHER, 250915
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KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

GRADING PLAN

SCALE:	1:500 (10m)	PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	G1
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

SPA 2024-0092

File: G:\Projects\24045_Fieldgate Caledon\4. Drawings\3. Design Drawings\24045 - GRADING PLAN.dwg, Layout: G1 Date: Sep 16, 2025 - 3:21pm, Edit By: Ted

REFER TO DRAWING G1 FOR CONTINUATION

REFER TO DRAWING G3 & G4 FOR CONTINUATION

RETAIL B1
FFE=264.75

RETAIL B2
FFE=264.50

RETAIL B3
FFE=264.00

RETAIL B4
FFE=264.00

RETAIL B5
FFE=264.00

PROPOSED RETAINING WALL (0.8-0.9M)

PROPOSED RETAINING WALL (0.4-1.1M)

PROPOSED RETAINING WALL (1.3-1.4M)

PROPOSED RETAINING WALL (1.3-1.4M)

ULTIMATE PROPERTY LINE

INTERIM PROPERTY LINE

ULTIMATE PROPERTY LINE

INTERIM PROPERTY LINE

EXISTING WATER VALVE

EXISTING HYDRO POLE

EXISTING HYDRO POLE

PROPOSED ENTRANCE PER REGION STD. DWG. 5-1-8

FUTURE ANTICIPATED REGION ROAD GRADES

EXISTING HYDRO POLE

EXISTING HYDRO POLE

EXISTING WATER VALVE

EXISTING HYDRO POLE

EXISTING HYDRO POLE

PROPOSED ENTRANCE PER REGION STD. DWG. 5-1-8

EXISTING HYDRO POLE

PROPOSED RETAINING WALL (1.3-1.4M)

MAYFIELD ROAD (PEEL REGION RD. 14)

CREDITVIEW ROAD

LEGAL CENTRELINE OF ROAD ALLOWANCE

KNOWN AS MAYFIELD ROAD
(ORIGINAL ROAD ALLOWANCE BETWEEN LOTS 17 AND 18)
PIN 14255-0121 (LT)

LEGAL CENTRELINE OF ROAD ALLOWANCE

KNOWN AS CREDITVIEW ROAD
(ORIGINAL ROAD ALLOWANCE BETWEEN LOTS 16 AND 17)
PIN 14255-0120 (LT)

EXISTING HYDRO POLE

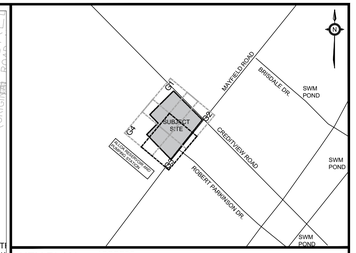
MOST EASTERLY CORNER OF LOT 16, CONCESSION 1 WEST OF HURONTARIO STREET

PART 1, PLAN 43R-41107

EXPROPRIATION PLAN 305M

SUBJECT TO AN EASEMENT IN GROSS OVER PART 1, PLAN 43R-41107 AS IN VS127911

PART 1, PLAN 43R-41107



KEY PLAN
N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

- PROPOSED ITEMS (200.00 0.5% MH 1A)
- EXISTING ITEMS (200.00 0.5% EX MH 1A)
- LIMIT OF PROPERTY LINE
- LIMIT OF CONSTRUCTION
- LIMIT OF BUILDING STRUCTURE
- BUILDING ENTRANCE
- PROP ELEVATION TO MATCH EXISTING (× 200.00)
- EMERGENCY OVERLAND FLOW ROUTE
- SANITARY MH
- STM MH / CBMH / DCBMH / OGS
- CB / DCB / AD / TD
- HYDRANT / SIAMESE / METER CHAMBER
- VALVE BOX / VALVE CHAMBER
- HD PAVEMENT

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m		
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).		
SITE PLAN:	TURNER FLEISCHER, 250915		
SURVEY:	J.D. BARNES, 231206		
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF
NO.	ISSUE	DATE	BY

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KWA SITE DEVELOPMENT CONSULTING
KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

GRADING PLAN

SCALE:	1:500 (10m)	PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	G2
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

SPA 2024-0092

File: G:\Projects\24045_Fieldgate Caledon\4_Drawings\3_Design Drawings\24045 - GRADING PLAN.dwg Layout: G2 Date: Sep 16, 2025 - 12:7pm, Edit By: Ted

REFER TO DRAWING G1 & G4 FOR CONTINUATION

(NOT PART OF THIS APPLICATION)

ADDITIONAL LANDS OWNED BY THE APPLICANT (NOT PART OF THE SUBDIVISION)

PROPOSED RETAINING WALL (0.85M)

RETAIL C1
FFE=265.90
265.90

RETAIL C2
FFE=265.90
265.90

RETAIL C3
FFE=265.40
265.40

RETAIL C4
FFE=265.15
265.15
PROPOSED RETAINING WALL (0.55-0.85M)

RETAIL B1
FFE=264.75
264.75

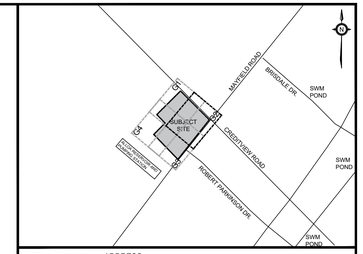
RETAIL B2
FFE=264.50
264.50
PROPOSED RETAINING WALL (0.8-0.9M)

RETAIL B3
FFE=264.00
264.00
PROPOSED RETAI WALL (0.4-1.1M)

STREET 'G' (NOT PART OF THIS APPLICATION)

MAYFIELD ROAD (PEEL REGION RD. 14)

REFER TO DRAWING G2 FOR CONTINUATION



KEY PLAN
N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

- PROPOSED ITEMS
- EXISTING ITEMS
- LIMIT OF PROPERTY LINE
- LIMIT OF CONSTRUCTION
- LIMIT OF BUILDING STRUCTURE
- BUILDING ENTRANCE
- PROP ELEVATION TO MATCH EXISTING
- EMERGENCY OVERLAND FLOW ROUTE
- SANITARY MH
- STM MH / CBMH / DCBMH / OGS
- CB / DCB / AD / TD
- HYDRANT / SIAMESE / METER CHAMBER
- VALVE BOX / VALVE CHAMBER
- HD PAVEMENT

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SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
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1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

GRADING PLAN

SCALE:	1:500 (10m)	PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	G3
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

SPA 2024-0092

File: G:\Projects\24045_Fieldgate Caledon\4. Drawings\3. Design Drawings\24045 - GRADING PLAN.dwg Layout: G3 Date: Sep 16, 2025 - 2:21pm Edit By: Ted

REFER TO DRAWING G1 FOR CONTINUATION

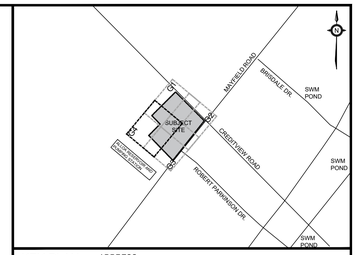
(NOT PART OF THIS APPLICATION)

STREET 'G' (NOT PART OF THIS APPLICATION)

(NOT PART OF THIS APPLICATION)

REFER TO DRAWING G2 FOR CONTINUATION

REFER TO DRAWING G3 FOR CONTINUATION



KEY PLAN
N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

- PROPOSED ITEMS
- EXISTING ITEMS
- LIMIT OF PROPERTY LINE
- LIMIT OF CONSTRUCTION
- LIMIT OF BUILDING STRUCTURE
- BUILDING ENTRANCE
- PROP ELEVATION TO MATCH EXISTING
- EMERGENCY OVERLAND FLOW ROUTE
- SANITARY MH
- STM MH / CBMH / DCBMH / OGS
- CB / DCB / AD / TD
- HYDRANT / SIAMESE / METER CHAMBER
- VALVE BOX / VALVE CHAMBER
- HD PAVEMENT

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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3. THIS DRAWING IS NOT TO BE ISSUED FOR CONSTRUCTION UNTIL ALL REQUIRED PERMITS HAVE BEEN ISSUED.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS AND DATA ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO KWA 48 HOURS PRIOR TO ANY CONSTRUCTION.

KWA SITE DEVELOPMENT CONSULTING
KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE
BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

GRADING PLAN

SCALE:	1:500 (10m)	PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	G4
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

SPA 2024-0092

File: G:\Projects\24045_Fieldgate Caledon\4_Drawings\3_Design Drawings\24045 - GRADING PLAN.dwg, Layout: G4 Date: Sep 16, 2025 - 3:21pm, Edit By: Ted

GENERAL NOTES:

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT "*OCCUPATIONAL HEALTH AND SAFETY ACT* AND *REGULATIONS FOR CONSTRUCTION PROJECTS*". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
2. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT ONTARIO TRAFFIC MANUAL BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.
3. THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND PREVENT CONSTRUCTION CONFLICTS.
4. THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS PROVIDED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY EACH UTILITY PRIOR TO COMMENCEMENT OF WORK. ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.
5. NO ALTERATIONS TO EXISTING BOUNDARY ELEVATIONS OR ADJACENT LANDS SHALL BE UNDERTAKEN UNLESS WRITTEN AGREEMENT WITH THE ADJACENT PROPERTY OWNER IS OBTAINED AND SUBMITTED IN A FORMAT ACCEPTABLE TO THE CITY.

SITE GRADING:

1. ALL DISTURBED GRASSED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER WITH SOD ON MIN 100mm TOPSOIL. THE RELOCATION OF TREES AND SHRUBS SHALL BE SUBJECT TO APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR ENGINEER.
2. ALL GRANULAR BASE AND SUB-BASE MATERIALS SHALL BE GRADED AND COMPACTED TO 98% STANDARD PROCTOR DENSITY, FREE OF DEPRESSIONS AS PER THE GEOTECHNICAL REPORT.
3. THE PAVEMENT STRUCTURE SHALL BE CONSTRUCTED BASED ON SPECIFICATIONS AS PER THE GEOTECHNICAL REPORT.
4. PROVIDE SUBDRAINS, MINIMUM LENGTH OF 3.0m, EXTENDING FROM ALL CATCHBASINS AND CATCHBASIN MANHOLES TO DRAIN THE GRANULAR SUB-BASE LAYER AS PER DETAIL ON DRAWING D4.
5. ALL BARRIER CURB WITHIN THE SITE TO BE CONSTRUCTED AS PER DETAIL ON DRAWING D1, UNLESS OTHERWISE SPECIFIED.
6. TRENCH BACKFILL WITHIN THE RIGHT OF WAY SHALL BE UNSHRINKABLE FILL AND SHALL EXTEND TO THE BASE OF ASPHALT. LANDSCAPED AREA MAY BE EXEMPTED.
7. ALL WORK SHALL BE SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF CITY ROAD OCCUPANCY PERMIT.
8. INSPECTIONS: ALL WORK ON THE MUNICIPAL RIGHT OF WAY AND EASEMENTS TO BE INSPECTED BY THE MUNICIPALITY PRIOR TO BACKFILLING. ALL WORK RELATING TO WATERMAINS AND SEWERS TO BE INSPECTED BY THE MUNICIPALITY WHEN REQUIRED BY THE MUNICIPALITY.
9. STEP JOINTS ARE TO BE USED WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT AS PER DETAIL ON DRAWING D4. ALL JOINTS MUST BE SEALED AS PER DETAIL.
10. EMBANKMENTS TO BE SLOPED AT MAX. 3:1, UNLESS OTHERWISE SPECIFIED.
11. ALL PAVEMENT MARKING, LINE PAINTING, DIRECTIONAL LINES/ARROWS ETC. SHALL BE PLACED IN ACCORDANCE WITH THE ARCHITECTURAL SITE PLAN OR THE OWNER'S TRAFFIC ENGINEERING CONSULTANT'S DRAWINGS. LINE PAINTING AND DIRECTIONAL SYMBOLS SHALL BE APPLIED WITH A MINIMUM OF TWO COATS OF ORGANIC SOLVENT BASED PAINT IN ACCORDANCE WITH OPSS 1712.
12. WHERE APPLICABLE THE CONTRACTOR IS TO SUBMIT SHOP DRAWINGS FOR THE RETAINING WALL (INCLUDE RAILINGS IF APPLICABLE) TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS MUST BE SITE SPECIFIC, SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER. THE CONTRACTOR WILL ALSO BE REQUIRED TO SUPPLY STRUCTURAL AND GEOTECHNICAL CERTIFICATION OF THE AS-CONSTRUCTED RETAINING WALL TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
13. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER 1 (ONE) SET OF AS CONSTRUCTED SITE SERVICING, GRADING, AND SITE ELECTRICAL DRAWINGS.

GEOTECHNICAL NOTES:

PAVEMENT SPECIFICATIONS PER GEMTEC CONSULTING ENGINEERS AND SCIENTISTS LIMITED, REPORT DATED MAY 29, 2024 (PAGE 12), REFER TO THIS REPORT FOR FURTHER DETAILS :

LIGHT DUTY
40MM - HL3
60MM - HL8
150MM - OPSS GRANULAR A
300MM - OPSS GRANULAR B TYPE 1 OR 2

HEAVY DUTY
40MM - HL3
80MM - HL8
150MM - OPSS GRANULAR A
450MM - OPSS GRANULAR B TYPE 1 OR 2

REGION OF PEEL NOTES:

1. PUBLIC AND PRIVATE SERVICES, APPURTENANCES, MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH THE MOST CURRENT REGION OF PEEL STANDARDS AND SPECIFICATIONS, THE LOCAL MUNICIPALITY'S REQUIREMENTS FOR THE ONTARIO BUILDING CODE AND ONTARIO PROVINCIAL STANDARDS. ALL WORKS SHALL ADHERE TO ALL APPLICABLE LEGISLATION, INCLUDING REGIONAL BY-LAWS.
2. WATERMAIN AND / OR WATER SERVICE MATERIALS 100MM (4") AND LARGER MUST BE PVC DR18 CONSTRUCTED AS PER AWWA C900-16.WATERMAINS AND / OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7 M (5'6") WITH A MINIMUM HORIZONTAL SPACING OF 1.2 M (4') FROM THEMSELVES AND ALL OTHER UTILITIES.
3. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED WITH AT LEAST A 50 MM (2") OUTLET ON 100 MM (4") 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 (4") DIAMETER MINIMUM ON A HYDRANT.
4. ALL CURB STOPS TO BE 3.0 M (10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
5. HYDRANT AND VALVE SET TO REGION STANDARD 1 - 6 - 1 DIMENSION A AND B, 0.7 M (2') AND 0.9 M (3') AND TO HAVE PUMPER NOZZLE.
6. WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED SITE PLAN. COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.
7. WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3 M (12") OVER / 0.5 M (20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
8. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
9. ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED OR BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION.
10. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
11. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THEIR WORK. WHETHER SHOWN ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.
12. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO THE UTILITIES PRIOR TO CROSSING SUCH UTILITIES, FOR THE PURPOSE OF INSPECTION BY THE CONCERNED UTILITY. THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.
13. ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE, CONSISTENT WITH THE DEGREE OF HAZARD, FOR BACKFLOW PREVENTION OF THE ACTIVE DISTRIBUTION SYSTEM, CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8.
14. ALL WATER METERS MUST BE INSTALLED IN HEATED AND ACCESSIBLE SPACE.
15. PROPOSALS TO CONNECT TO AN EXISTING SERVICE LATERAL REQUIRES APPROVAL FROM THE REGION OF PEEL INSPECTOR AT CONSTRUCTION STAGE

WATERMAINS:

1. WATERMAIN SHALL BE POLYVINYL CHLORIDE (PVC) CLASS 150 DR-18 PIPE MANUFACTURED TO AWWA C900-89 AND CSA CAN3 B137.3-M1986 WITH GASKETED BELL END C/W #14 AWG SOLID COPPER TRACER WIRE.
2. WATERMAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 300mm OVER AND 500mm UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING. ALL WATERMAINS AND SERVICES SHALL HAVE 1.80m MINIMUM COVER.
3. BEDDING FOR WATERMAINS SHALL BE AS PER OPSD 802.030.
4. COVER REQUIRED ON WATERMAIN IS 1.8m MINIMUM.
5. ALL WATERMAIN HORIZONTAL AND VERTICAL BENDS, JOINTS AND PLUGS TO BE MECHANICALLY RESTRAINED. THRUST BLOCKS/MECHANICAL RESTRAINERS MUST BE INSTALLED ON ALL WATERMAIN BENDS, TEES, AND PLUGS AS PER LOCAL MUNICIPAL STANDARDS.
6. ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A PLUG AND 50mm BLOW OFF UNLESS OTHERWISE NOTED.
7. HYDRANT AND VALVE TO BE AS PER OPSD 1105.010.
8. ALL HYDRANT FLANGE ELEVATIONS TO BE INSTALLED 0.15m ABOVE PROPOSED FINISHED GRADE AT HYDRANT.
9. BUILDING SERVICE VALVES TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED AND MUST BE RESTRAINED A MINIMUM OF 12m BACK FROM STUB.
10. PROVISIONS FOR FLUSHING WATERMAINS MUST BE PROVIDED WITH A MINIMUM 50mm OUTLET FOR MAINS 100mm AND LARGER. FLUSHING POINTS MATCHING THE SIZE OF THE PIPE MUST BE PROVIDED AT THE END OF EACH COPPER MAIN. FIRE MAIN FLUSHING OUTLETS TO BE 100mm DIAMETER MINIMUM OR A HYDRANT. FLUSHING POINTS MUST BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN.
11. ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH LOCAL MUNICIPAL AND PROVINCIAL GUIDELINES UNLESS OTHERWISE DIRECTED. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED.
12. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING MAINS IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATION.
13. BOTH THE FIRE AND DOMESTIC WATER SERVICES MUST COMPLY WITH THE CURRENT BUILDING CODE ACT, THE CURRENT WATER SUPPLY BY-LAW, CHAPTER 851 AND CSA B-64 SERIES STANDARDS.

SEWER NOTES (KWA AND TOWN STD DWG 101):

GENERAL:

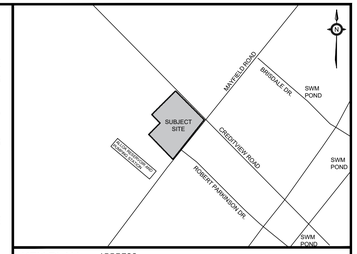
1. THE CONTRACTOR SHALL CONTACT THE MUNICIPALITY AT LEAST 48 HOURS PRIOR TO CONNECTING TO AN EXISTING SANITARY OR STORM MANHOLE.
2. SERVICE CONNECTIONS AND UTILITY CUTS TO BE BACKFILLED WITH UNSHRINKABLE FILL.
3. THE CONTRACTOR IS TO PROVIDE CCTV CAMERA INSPECTIONS OF ALL SANITARY AND STORM SEWERS, INCLUDING PICTORIAL REPORT, TWO (2) CD COPIES AND ONE (1) VIDEO TAPE IN A FORMAT SATISFACTORY TO THE ENGINEER. ALL SEWERS ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTION.

SANITARY SEWERS:

1. ALL SANITARY PVC SEWER PIPES SHALL BE SDR-35 EQUAL TO CSA SPECIFICATIONS B182.2-M1990 OR LATEST AMENDMENT UNLESS OTHERWISE NOTED.
2. MAINLINE PVC PIPE SHALL BE SDR-35 CSA B182.2-06 CERTIFIED ASTM D3034-04A, F679-03. SERVICE CONNECTION PVC PIPE SHALL BE SDR-28 CSA B182.2-06 CERTIFIED ASTM D3034-04A.
3. SANITARY SERVICE CONNECTIONS SHALL BE SINGLE, 150MMØ MINIMUM, PVC CLASS DR 28 INSTALLED AT 2% SLOPE AND ANY COLOUR EXCEPT WHITE, FOR SINGLE RESIDENTIAL DWELLINGS.
4. CONCRETE PIPE 150MM TO 250MM SHALL BE AS PER CSA A257.1-03 CLASS 3. HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLES 807.040. BEDDING FOR RIGID PIPE SHALL BE CLASS B AS PER OPSD 802.030, 802.031, 802.032 OR 802.033.
5. SANITARY MAINTENANCE HOLE SHALL HAVE WATERTIGHT FRAME AND COVER IN PONDING AREAS AS PER OPSD 401.030.

STORM SEWERS:

1. MANHOLES SHALL BE AS PER OPSD 701.010 AND OPSD 701.011; FRAMES AND COVERS SHALL BE AS PER OPSD 401.010. SAFETY PLATFORMS TO BE INSTALLED WHERE DEPTH EXCEEDS 5.0M.
2. STORM SEWER TO BE PROVIDED ON ALL ROADS WITH CURB AND GUTTER.
3. STORM SEWER TO BE LOCATED OFFSET 1.5M SOUTH OR WEST OF ROAD CENTERLINE UNLESS OTHERWISE SPECIFIED.
4. STORM SEWER TO BE MINIMUM 300MMØ WITH JOINTS CONFORMING TO CSA A257.3.
5. PIPE MATERIALS:
   - 5.1. REINFORCED CONCRETE PIPE WITH A STRENGTH OF 50 N/M/MM CERTIFIED TO CSA A257.2-1982, CLASS 50-D.
   - 5.2. PVC CERTIFIED TO CSA B182.2 AND B182.4, MAXIMUM 600MMØ.
   - 5.3. BIG O BOSS 2000 POLYETHYLENE PIPE WITH GASKETED BELL AND SPIGOT JOINTS, CERTIFIED TO CSA B182.6, FOR STORM SEWERS UP TO 900MMØ WHERE ONLY STANDARD CATCHBASINS CONNECT.
6. BEDDING SHALL BE AS FOLLOWS: OPSD 802.030 FOR RIGID PIPE; OPSD 802.010 WITH GRANULAR "A" FOR FLEXIBLE PIPE, UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING SERVICES.
7. ALL PIPE BEDDING MUST CONFORM TO OPSD MAXIMUM COVER TABLES. NO FLEXIBLE PIPE SEWERS SHALL BE INSTALLED WITH COVER GREATER THAN 6.0M UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF ENGINEERING SERVICES.
8. ALL PIPE HANDLING AND INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS AND OCPA OR UNIBELL GUIDELINES.
9. MAINTENANCE HOLE TOPS (FRAMES) AND CATCHBASIN FRAMES ARE TO BE SET TO BASE COURSE ASPHALT AND THEN ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACED.
10. SINGLE CATCHBASINS SHALL BE AS PER OPSD 705.010; DOUBLE CATCHBASINS SHALL BE AS PER OPSD 705.020.
11. ALL CATCH BASINS AND CATCH BASIN MANHOLES SHALL INCLUDE SUBDRAIN TREATMENT AS PER DETAIL ON DRAWING D4.
12. ALL MANHOLE AND CATCH BASIN EXCAVATIONS SHALL BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 98% STANDARD PROCTOR DENSITY.
13. CATCHBASIN LATERALS SHALL BE PLACED AT 2% GRADE UNLESS OTHERWISE NOTED. MINIMUM PIPE SIZE: 250MMØ SINGLE, 300MMØ DOUBLE.
14. ALL BLIND CONNECTIONS TO MATCH THE INVERT OF THE CATCHBASIN LEAD TO THE SPRINGLINE OF THE STORM PIPE. OTHERWISE, INSTALL THE CATCHBASIN LEAD AT A MAXIMUM 2.0% AND DROP INTO PIPE.
15. ALL CONNECTIONS TO THE STORM MAIN SHALL BE MADE WITH A STORM MANHOLE OR APPROVED FACTORY TEE CONNECTION AS PER OPSD 708.01 OR OPSD 708.03.



KEY PLAN
N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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KWA SITE DEVELOPMENT CONSULTING
KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE
BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

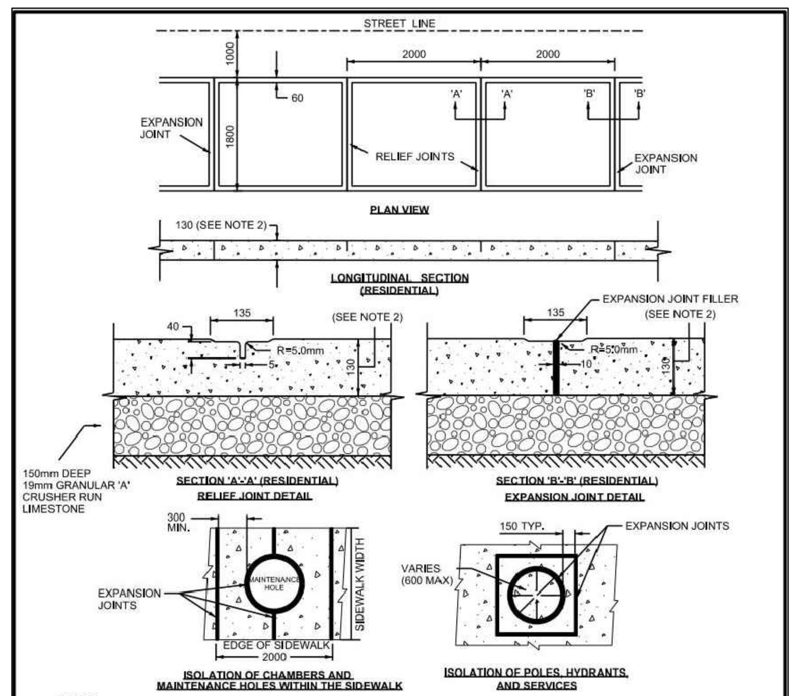
12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

NOTES

SCALE:	PROJECT # 24045
DATE: SEPT 2024	
DRAWN BY: TG / TF	DRAWING # N1
DESIGNED BY: TG / TF / PB	
CHECKED BY: TF / RA	

SPA 2024-0092

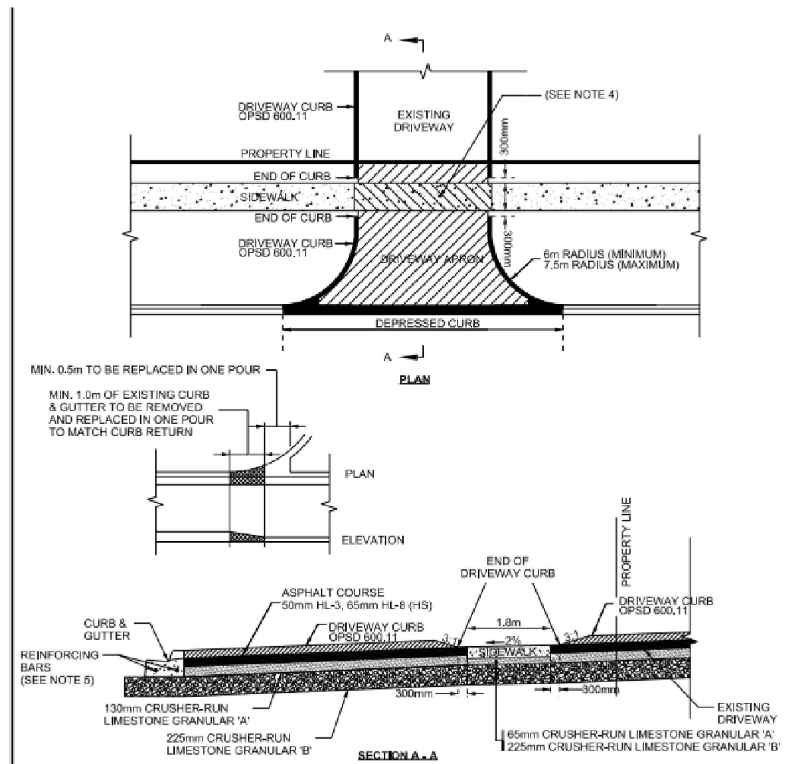
File: G:\Projects\24045_Fieldgate Caledon\4. Drawings\3. Design Drawings\24045 - NOTES.dwg Layout: N1 Date: Sep 16, 2025 - 2:55pm Edit By: Ted



NOTES
1. EXPANSION JOINTS ARE REQUIRED AT 6.0m INTERVALS AND:
   a) BETWEEN SIDEWALK AND ABUTTING CURB
   b) ADJACENT TO ABUTTING RIGID OBJECTS (UTILITY POLES, MAINTENANCE HOLES, VALVE BOXES ETC.)
   c) AT THE EDGE OF EACH DRIVEWAY
   d) AT ALL CONSTRUCTION JOINTS
2. AT COMMERCIAL AND INDUSTRIAL DRIVEWAYS, THICKNESS TO BE 180mm
3. RELIEF JOINTS MUST HAVE A STANDARD SPACING OF 2.0m
4. ALL CONCRETE TO BE 32MPa; 7% +/- 1.5% AIR ENTRAINED

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

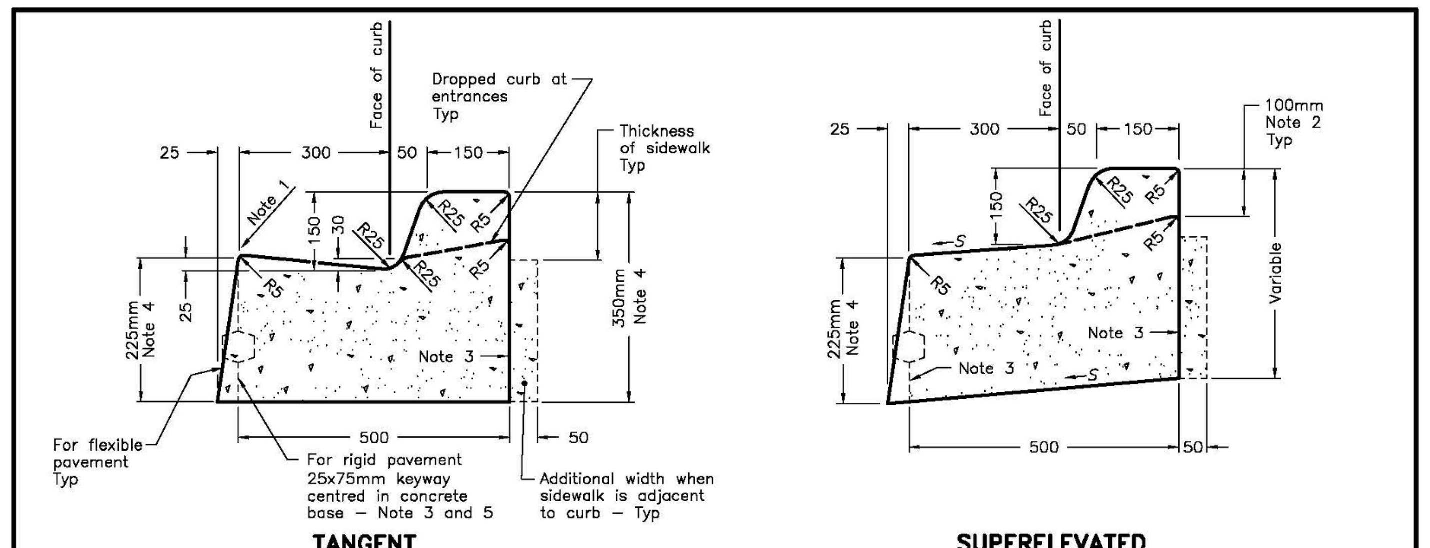
Region of Peel working with you — PUBLIC WORKS STANDARD DRAWING
DATE: SEPTEMBER 2018 | APPROVED BY: G.K./S.L. | DRAWN BY: N.P.
CONCRETE SIDEWALK | STD. DWG. NUMBER: 5-2-6 | SCALE: N.T.S.



NOTES
1. ALL TOPSOIL AND SOD TO BE REMOVED FROM LIMITS OF PROPOSED DRIVEWAY
2. GRANULAR TO BE COMPACTED TO 100% S.P.D.
3. MAXIMUM DRIVEWAY GRADE: 6%
4. THICKNESS OF CONCRETE SIDEWALK AT DRIVEWAYS SHALL BE 180mm AS REFERENCED ON 5-2-6
5. 2-15M REINFORCING BARS SHALL BE BE PLACED AT A HEIGHT OF 50mm ABOVE THE BOTTOM OF THE CURB AND GUTTER. ONE 76mm FROM THE FRONT FACE, ONE 76mm FROM THE BACK

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

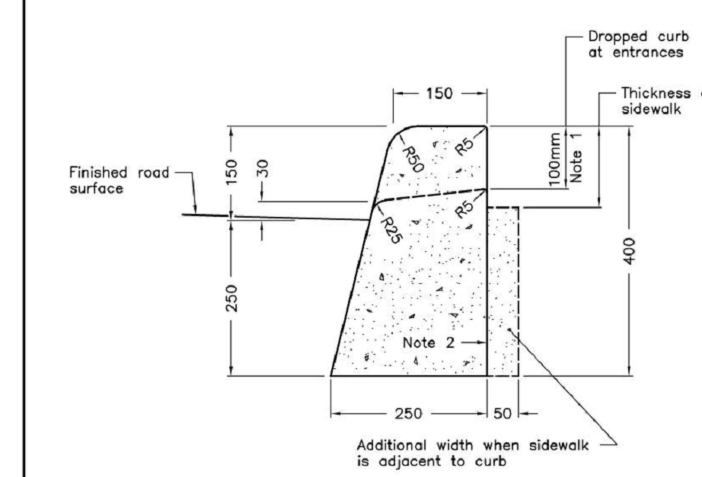
Region of Peel Working for you — PUBLIC WORKS STANDARD DRAWING
REV. DATE: MARCH 2015 | APPROVED BY: G.K./S.L. | DRAWN BY: O.A.
INDUSTRIAL/COMMERCIAL DRIVEWAY ENTRANCE WITHIN URBAN ROAD CROSS SECTION | STD. DWG. NUMBER: 5-1-8 | SCALE: N.T.S.



LEGEND:
S — Rate of pavement superelevation in percent, %.

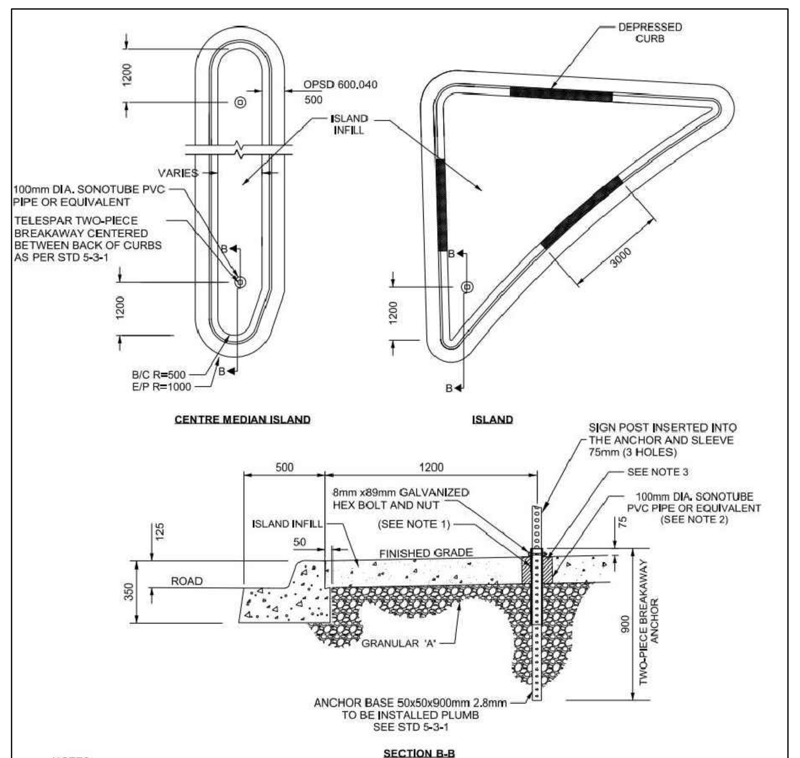
NOTES:
1 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
2 When sidewalk is continuously adjacent, the dropped curb at entrances shall be reduced to 75mm.
3 For slipforming procedure a 5% batter is acceptable.
4 For composite pavement the depth of concrete curb shall be adjusted to depth of concrete pavement.
5 When tie bars are specified, refer to OPSD 552.010 and 552.020 for details.
A Treatment at entrances shall be according to OPSD 351.010.
B Outlet treatment shall be according to the OPSD 610 Series.
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2012 | Rev 2
CONCRETE BARRIER CURB WITH STANDARD GUTTER
OPSD 600.040



NOTES:
1 When sidewalk is continuously adjacent, the dropped curb at entrances shall be reduced to 75mm.
2 For slipforming procedure a 5% batter is acceptable.
A Treatment at entrances shall be according to OPSD 351.010.
B Outlet treatment shall be according to the OPSD 610 Series.
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
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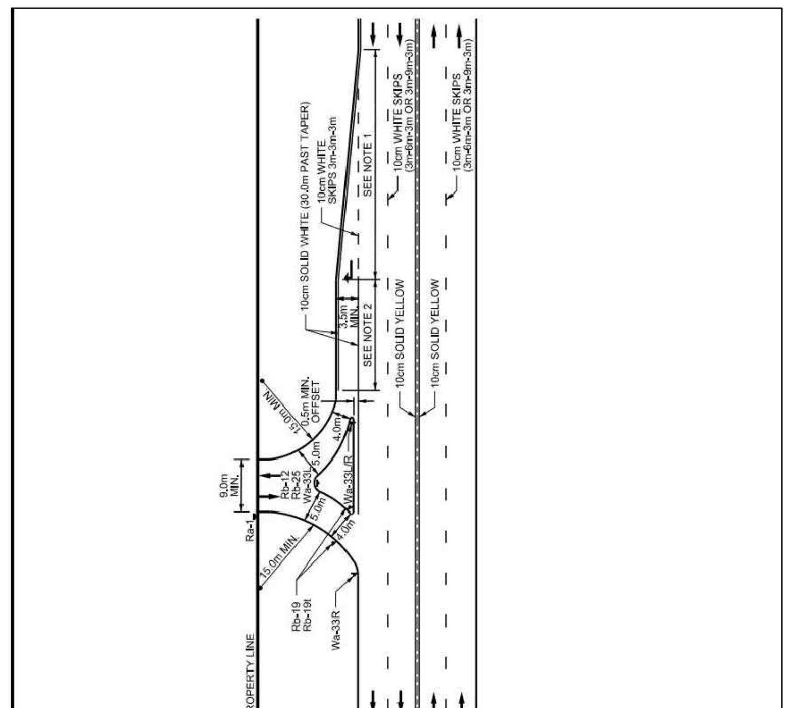
ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2012 | Rev 2
CONCRETE BARRIER CURB
OPSD 600.110



NOTES
1. ANCHOR SLEEVE 56x56x450mm 2.8mm TOP TO EXTEND 75mm ABOVE GRADE
2. 100mm DIA. SONOTUBE PVC PIPE OR EQUIVALENT MUST BE INSTALLED AT ALL CONCRETE INFILL ISLANDS, MEDIANS AND SPLASH PADS IN ACCORDANCE WITH STD. 5-3-1
3. PVC SONOTUBE VOIDS TO BE FILLED WITH LIMESTONE SCREENING AFTER SIGN INSTALLATION

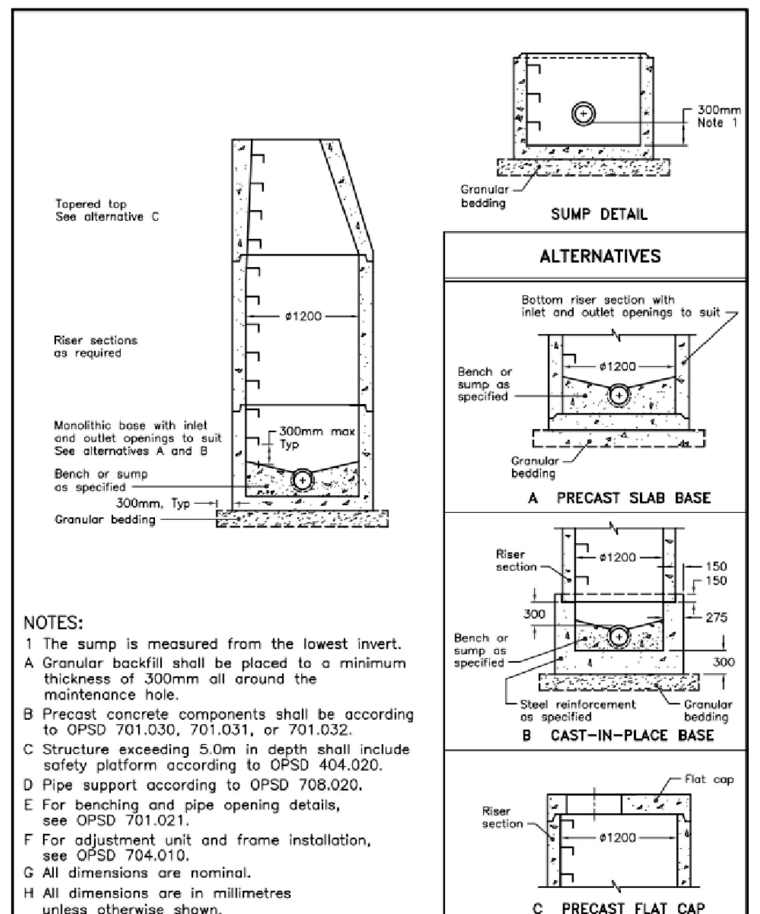
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

Region of Peel Working for you — PUBLIC WORKS STANDARD DRAWING
DATE: MARCH 2015 | APPROVED BY: G.K./S.L. | DRAWN BY: O.A.
BULLNOSE CONCRETE CURB AND GUTTER AT CENTRE MEDIAN AND ISLAND | STD. DWG. NUMBER: 5-3-2 | SCALE: N.T.S.



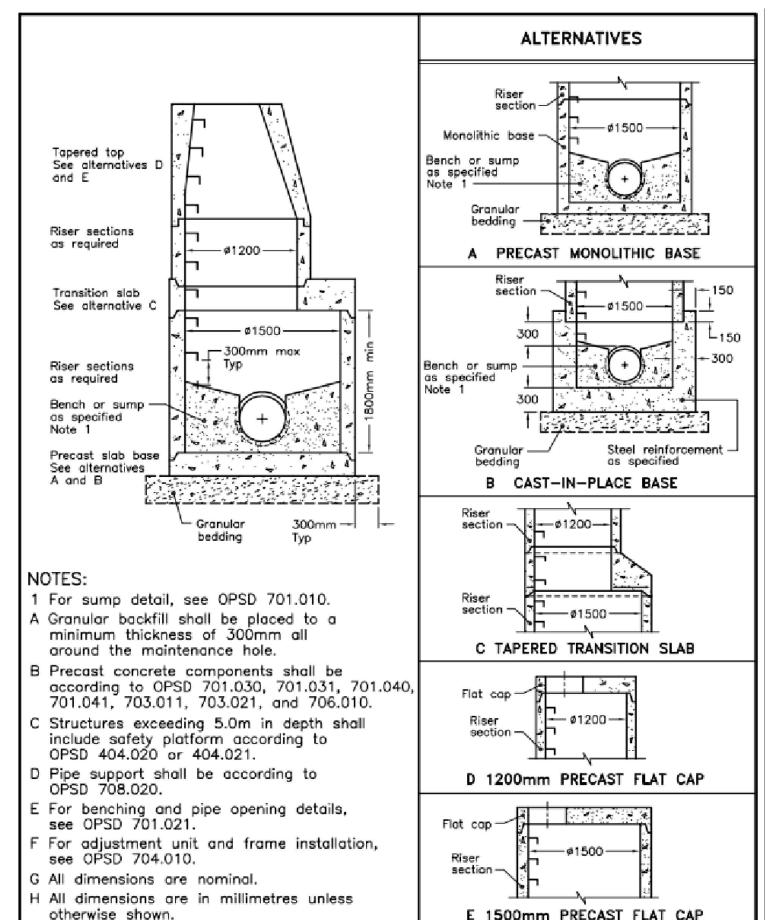
NOTES
1. THE TAPER LENGTH IS BASED ON DESIGN SPEED OF THE ROADWAY UTILIZING THE TAC MANUAL AND THE ONTARIO TRAFFIC MANUAL
2. THE MINIMUM STORAGE IS 30.0 METERS, HOWEVER ACTUAL LENGTH WILL BE DETERMINED BASED ON PROPOSED TURNING VOLUMES
3. THE DIRECTIONAL ISLAND SHALL BE DESIGNED IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL
4. ALL PERMANENT LINE PAINTING APPLICATIONS SHALL BE DONE WITH DURABLE, THERMOPLASTIC PAINT
5. PROPOSED DESIGN AND LOCATION OF ALL ISLANDS SHALL BE VERIFIED AND DESIGNED USING PROPER TURNING TEMPLATES

Region of Peel Working for you — PUBLIC WORKS STANDARD DRAWING
REV. DATE: JUNE 2016 | APPROVED BY: G.K./S.L. | DRAWN BY: C.B.
TYPICAL DESIGN FOR A RIGHT IN/OUT ACCESS WITH DIRECTIONAL ISLAND (ROADS WITHOUT DIVIDED CENTRE MEDIAN ISLAND) | STD. DWG. NUMBER: 5-1-4 | SCALE: N.T.S.



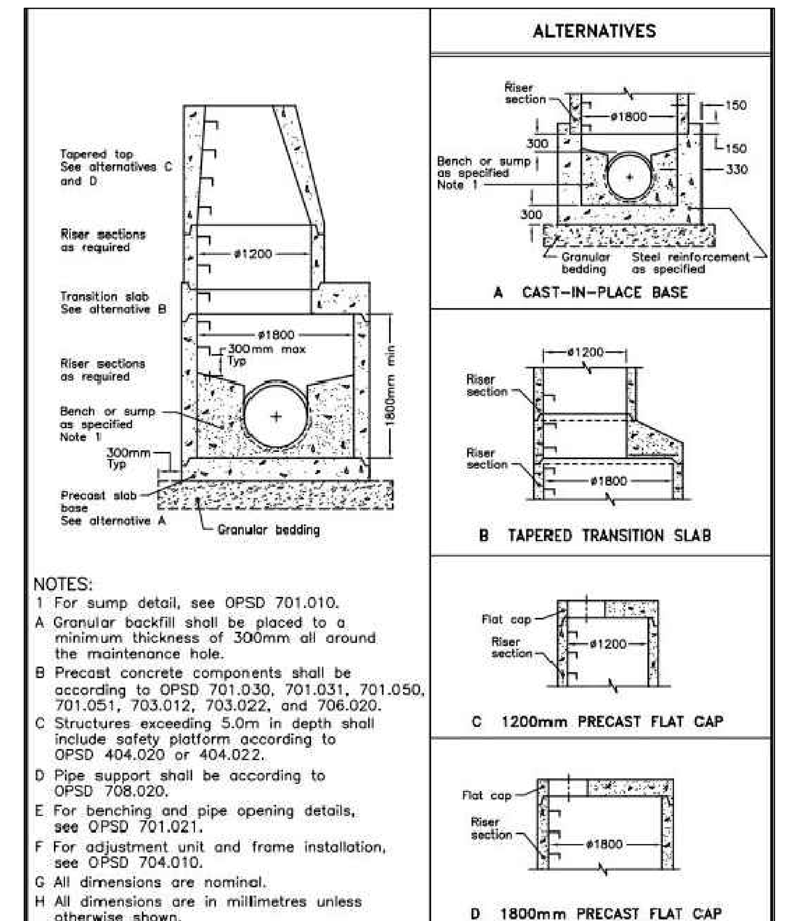
NOTES:
1 The sump is measured from the lowest invert.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
D Pipe support according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H 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



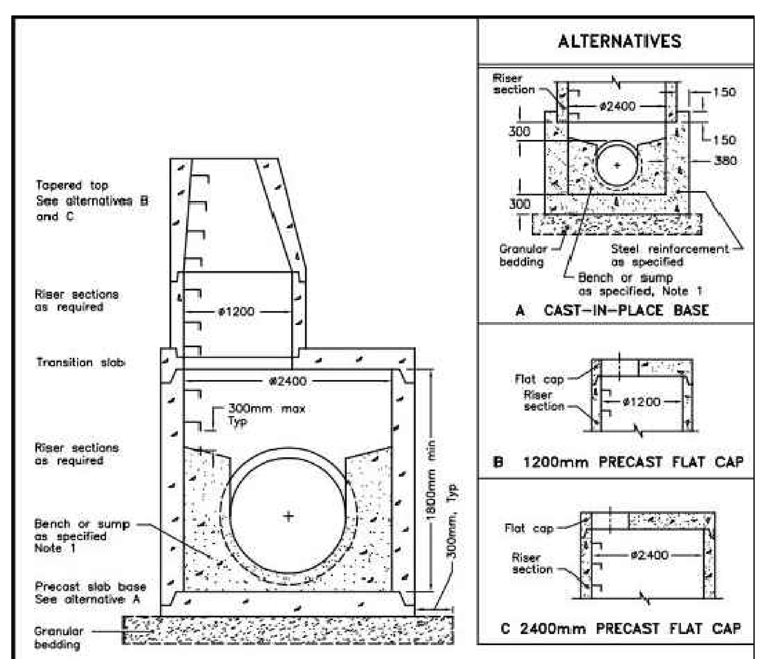
NOTES:
1 For sump detail, see OPSD 701.010.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, 701.040, 701.041, 703.011, 703.021, and 706.010.
C Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020 or 404.021.
D Pipe support shall be according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2014 | Rev 5
PRECAST CONCRETE MAINTENANCE HOLE 1500mm DIAMETER
OPSD 701.011



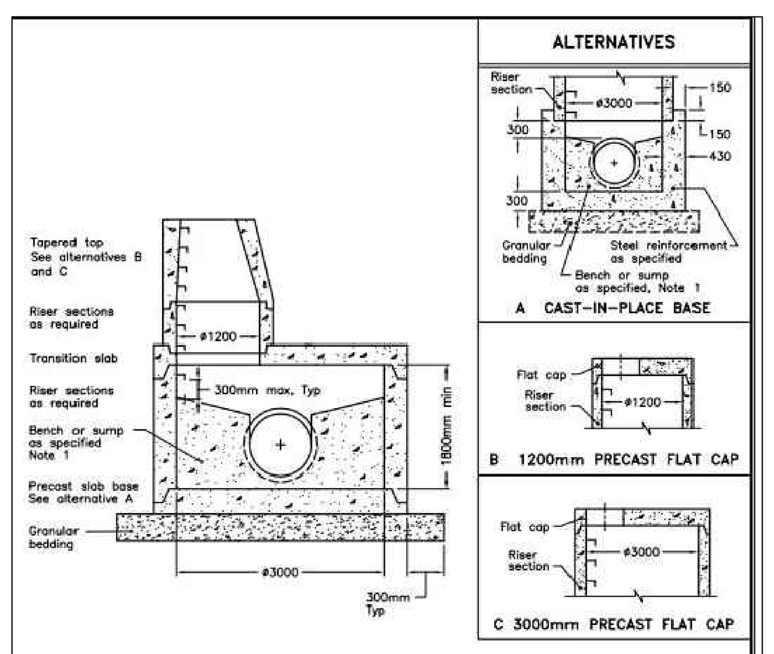
NOTES:
1 For sump detail, see OPSD 701.010.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, 701.050, 701.051, 703.012, 703.022, and 706.020.
C Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020 or 404.022.
D Pipe support shall be according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2014 | Rev 5
PRECAST CONCRETE MAINTENANCE HOLE 1800mm DIAMETER
OPSD 701.012



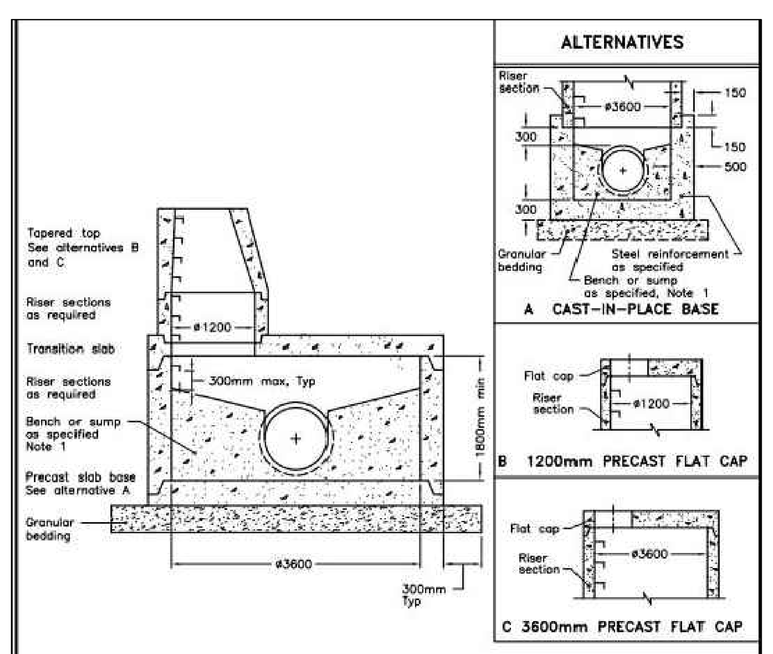
NOTES:
1 For sump detail, see OPSD 701.010.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, 701.060, 701.061, 703.013, 703.023, 706.030 and 706.031.
C Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
D Pipe support shall be according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2014 | Rev 5
PRECAST CONCRETE MAINTENANCE HOLE 2400mm DIAMETER
OPSD 701.013



NOTES:
1 For sump detail, see OPSD 701.010.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, 701.070, 701.071, 703.014, 703.024, 706.040 and 706.041.
C Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
D Pipe support shall be according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

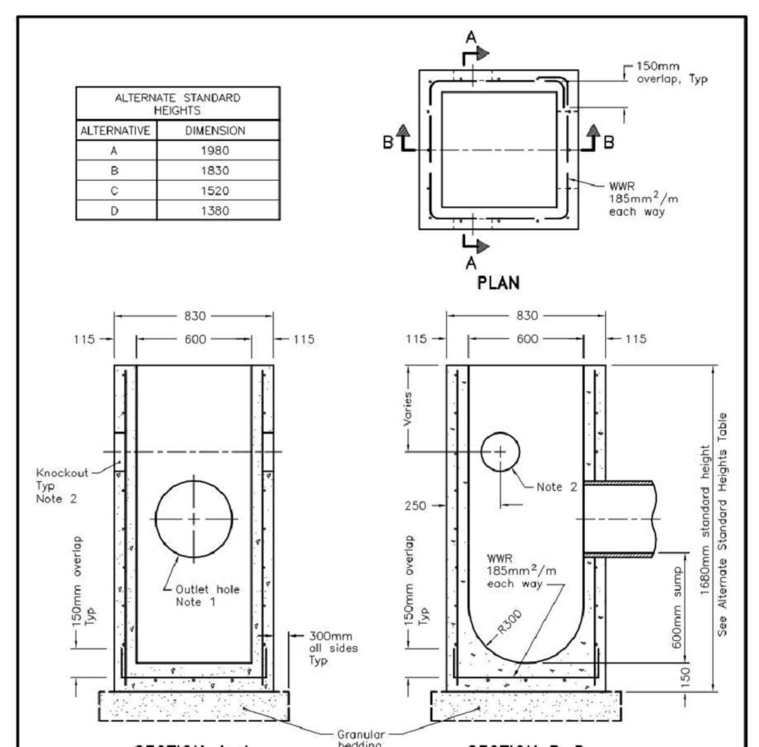
ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2014 | Rev 4
PRECAST CONCRETE MAINTENANCE HOLE 3000mm DIAMETER
OPSD 701.014



NOTES:
1 For sump detail, see OPSD 701.010.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, 701.080, 701.081, and 703.015.
C Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
D Pipe support shall be according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

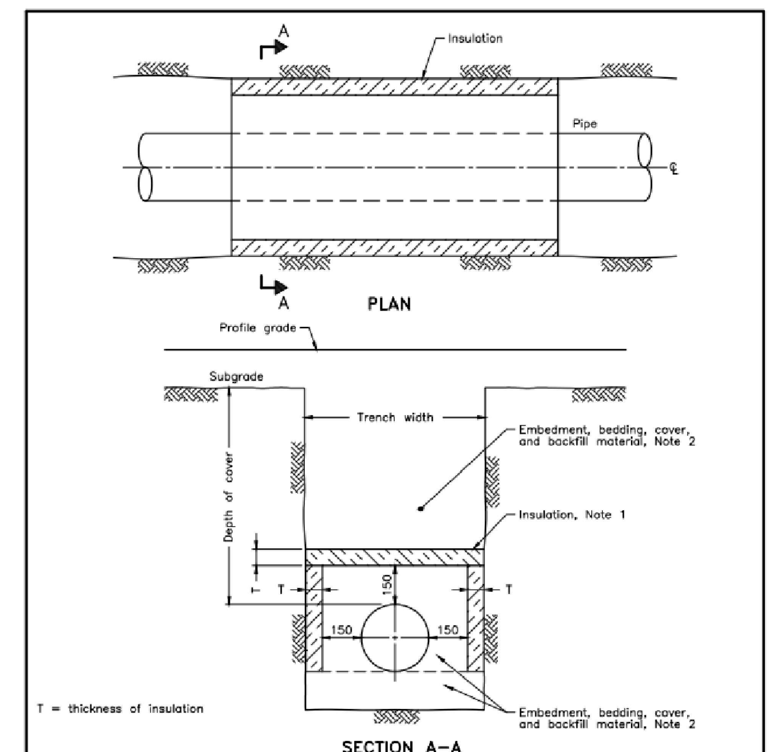
ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2014 | Rev 4
PRECAST CONCRETE MAINTENANCE HOLE 3600mm DIAMETER
OPSD 701.015

ALTERNATE STANDARD HEIGHTS	
ALTERNATIVE	DIMENSION
A	1980
B	1830
C	1520
D	1380



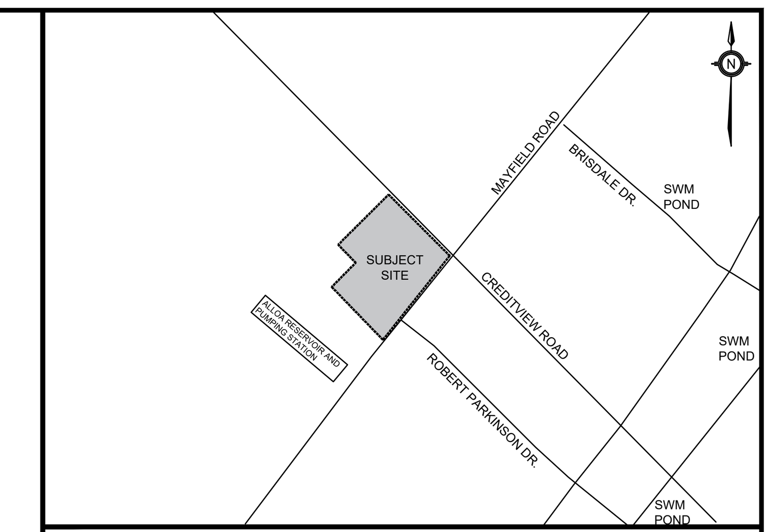
NOTES:
1 Outlet hole size 525mm diameter maximum, location as required.
2 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
A Centre reinforcing in base slab and walls ±20mm.
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
D Pipe support shall be according to OPSD 708.020.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

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



NOTES:
1 The insulation material shall be extruded polystyrene according to OPSS 1605 with a minimum compressive strength of 275 kPa.
2 Pipe embedment or bedding, cover, and backfill shall be according to:
   a) Flexible OPSD 802.010, 802.013, 802.020, and 802.023.
   b) Rigid — OPSD 802.030, 802.031, 802.032, 802.033, 802.050, 802.051, 802.052, and 802.053.
A Minimum insulation thickness shall be 50mm.
B Joints shall be staggered for multiple insulation sheets.
C This OPSD is to be read in conjunction with OPSD 3090.100 and 3090.101.
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2020 | Rev 1
INSULATION FOR SEWERS AND WATERMAINS IN SHALLOW TRENCHES
OPSD 1109.030



KEY PLAN N.T.S.
ADDRESS: 12100 CREDITVIEW ROAD CALEDON, ONTARIO

LEGEND

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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3. THIS DRAWING IS NOT TO BE ISSUED FOR CONSTRUCTION UNTIL ALL REQUIRED PERMITS HAVE BEEN ISSUED.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS AND DATA ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO KWA 48 HOURS PRIOR TO ANY CONSTRUCTION.

KWA SITE DEVELOPMENT CONSULTING
KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER T. FAIR 100176144 SEPT 17, 2025 PROVINCE OF ONTARIO

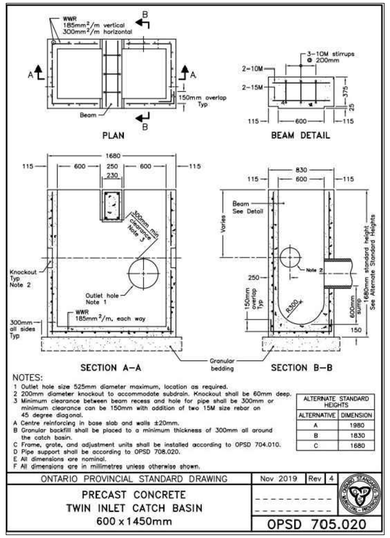
12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

DETAILS PLAN - 1

SCALE:		PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	D1
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

File : G:\Projects\24045_Fieldgate Caledon\4. Drawings\3. Design Drawings\24045 - DETAILS.dwg, Layout : D1 Date :Sep 18, 2025 - 8:32am, Edit By : Ted

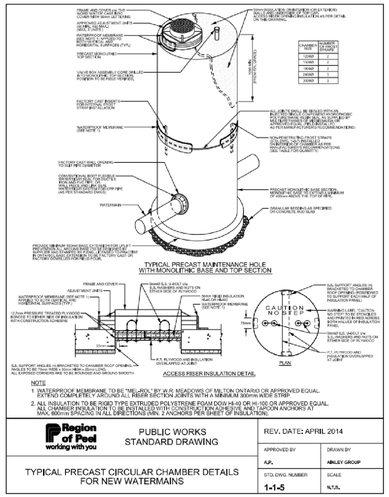
SPA 2024-0092



NOTES:
1 Outlet hole size 525mm diameter maximum, location as required.
2 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
3 Minimum clearance between beam recess and hole for pipe shall be 300mm or minimum clearance can be 150mm with addition of two 15M size rebar on 45 degree diagonal.
A Centre reinforcing in base slab and walls ±20mm.
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
D Pipe support shall be according to OPSD 708.020.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

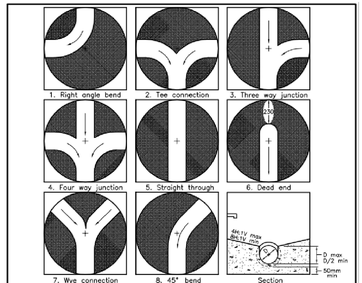
ALTERNATE STANDARD HEIGHTS	
ALTERNATIVE	DIMENSION
A	1980
B	1830
C	1680

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2019	Rev 4
PRECAST CONCRETE TWIN INLET CATCH BASIN 600 x 1450mm		OPSD 705.020



NOTE
1 WATERPROOF MEMBRANE TO BE "MEL-ROL" BY W.R. MEADOWS OF MILTON ONTARIO OR APPROVED EQUAL. EXTEND COMPLETELY AROUND ALL RISER SECTION JOINTS WITH A MINIMUM 300mm WIDE STRIP.
2 ALL INSULATION TO BE RIGID TYPE EXTRUDED POLYSTYRENE (DOW HI-60 OR HI-100 OR APPROVED EQUAL. ALL CHAMBER INSULATION TO BE INSTALLED WITH CONCRETE KEYHOLE RISERS AND CARLON ANCHORS AT MAX. 600mm SPACING IN ALL DIRECTIONS (MIN. 2 ANCHORS PER SHEET OF INSULATION)

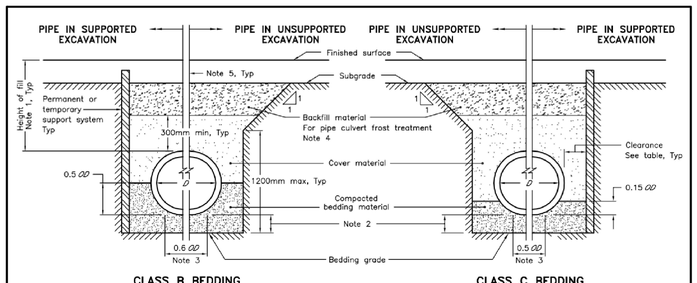
Region of Peel working with you	PUBLIC WORKS STANDARD DRAWING	REV. DATE: APRIL 2014
TYPICAL PRECAST CIRCULAR CHAMBER DETAILS FOR NEW WATERMAINS	APPROVED BY: A.A.	DRAWN BY: VALLEY GROUP
	STD. DWG. NUMBER: 1-1-5	SCALE: N.T.S.



MAXIMUM SIZE HOLE IN THE WALL IN PRECAST RISER SECTIONS					
Maintenance Hole Diameter	No. 1–4	No. 5 and 6	No. 8	No. 7	
				Inlet Hole	Outlet Hole
1200	700	860	780	700	860
1500	860	1220	960	860	1170
1800	1220	1485	1220	1220	1485
2400	1485	2020	1760	1485	2020
3000	1930	2450	2300	1930	2450
3600	2470	3085	2730	2470	3085

NOTES:
1 Slopes shall be maintained from the outlet hole opening for top of benching.
A Concrete for benching shall be 35MPa.
B When benching is hand-finished, it shall be given wood float finish, channel shall be given steel trowel finish.
C Benching slope and height shall be as specified.
D When specified, maintenance holes that are 1200mm in diameter with a uniform channel for 200 or 250mm pipe may be prepoured at the manufacturer with standardized benching slope and channel orientation.
E All dimensions are nominal.
F 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

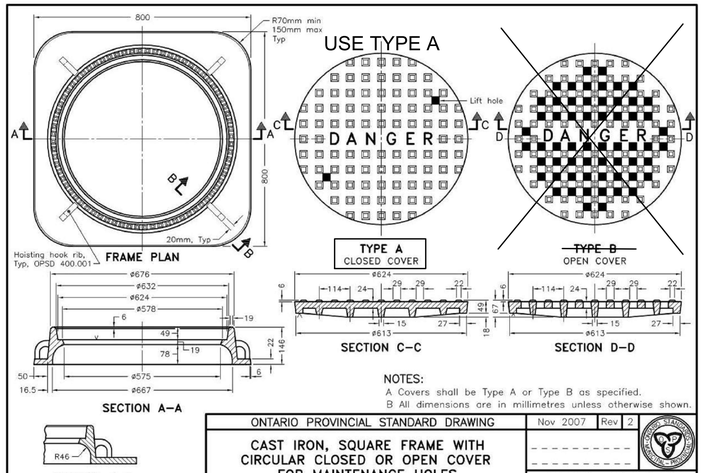


NOTES:
1 Height of fill is measured from the finished surface to top of pipe.
2 The minimum bedding depth below the pipe shall be 0.15Ø in no case shall this dimension be less than 150mm or greater than 300mm.
3 The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
4 Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
5 Condition of excavation is symmetrical about centreline of pipe.
A Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
B All dimensions are in metres unless otherwise shown.

LEGEND:
Ø – Inside diameter
ØØ – Outside diameter

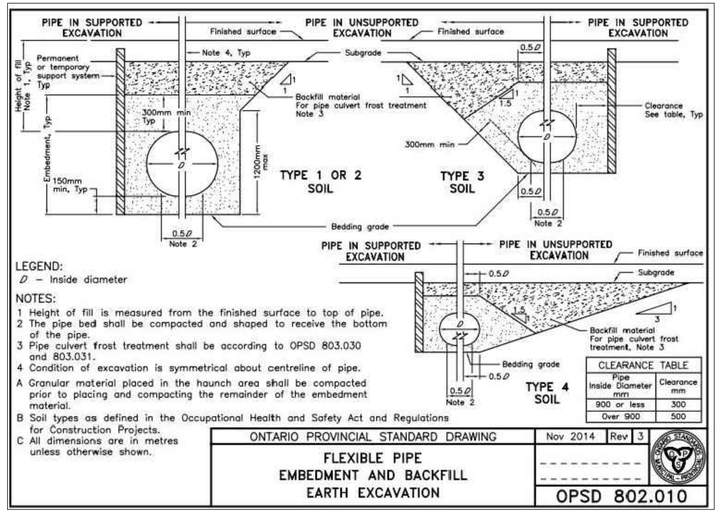
CLEARANCE TABLE	
Pipe Inside Diameter mm	Clearance mm
900 or less	300
Over 900	500

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 3
RIGID PIPE BEDDING, COVER, AND BACKFILL TYPE 1 OR 2 SOIL – EARTH EXCAVATION		OPSD 802.030



NOTES:
A Covers shall be Type A or Type B as specified.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2007	Rev 2
CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES		OPSD 401.010

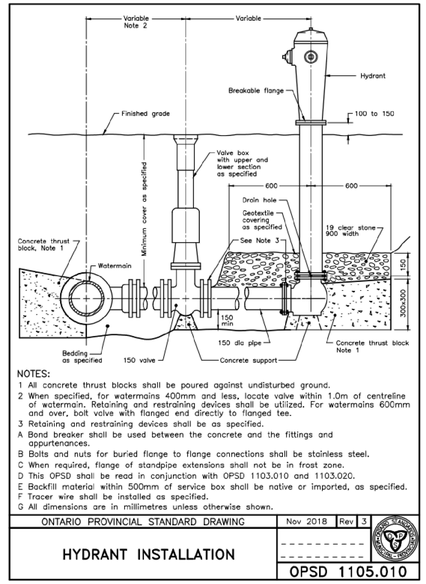


LEGEND:
Ø – Inside diameter

NOTES:
1 Height of fill is measured from the finished surface to top of pipe.
2 The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
3 Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
4 Condition of excavation is symmetrical about centreline of pipe.
A Granular material placed in the haunch area shall be compacted prior to placing and compacting the remainder of the embedment material.
B Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
C All dimensions are in metres unless otherwise shown.

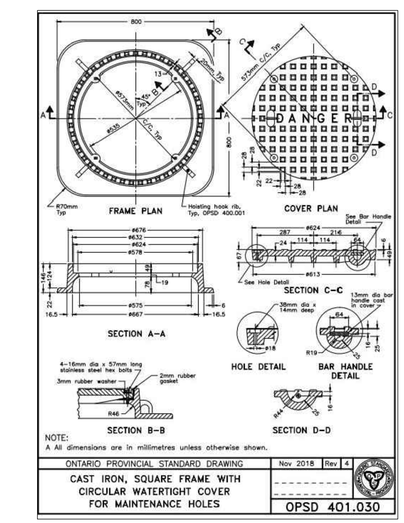
CLEARANCE TABLE	
Pipe Inside Diameter mm	Clearance mm
900 or less	300
Over 900	500

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 3
FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION		OPSD 802.010



NOTES:
1 All concrete thrust blocks shall be poured against undisturbed ground.
2 When specified, for watermains 400mm and less, locate valve within 1.0m of centreline of watermain. Retaining and restraining devices shall be utilized. For watermains 600mm and over, bolt valve with flanged end directly to flanged tee.
3 Retaining and restraining devices shall be as specified.
A Bond breaker shall be used between the concrete and the fittings and appurtenances.
B Bolts and nuts for buried flange to flange connections shall be stainless steel.
C When required, flange of standpipe extensions shall not be in frost zone.
D This OPSD shall be read in conjunction with OPSD 1103.010 and 1103.020.
E Backfill material within 500mm of service box shall be native or imported, as specified.
F Tracer wire shall be installed as specified.
G All dimensions are in millimetres unless otherwise shown.

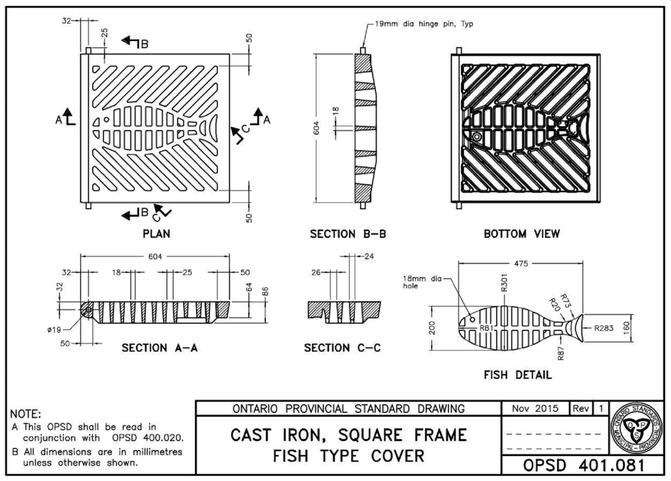
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev 3
HYDRANT INSTALLATION		OPSD 1105.010



NOTE:
A All dimensions are in millimetres unless otherwise shown.

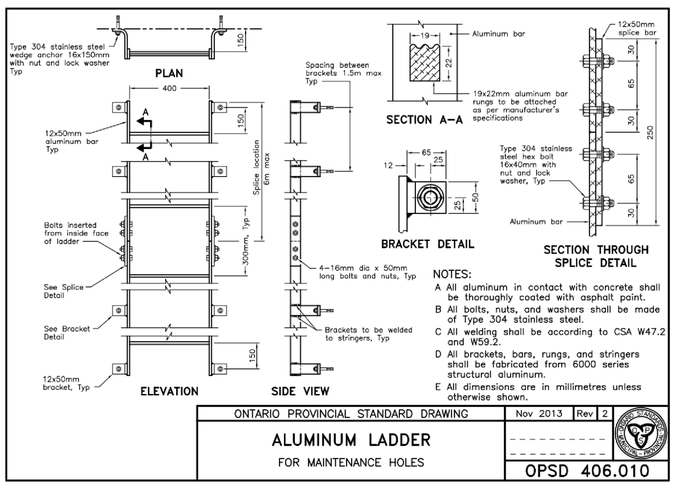
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev 4
CAST IRON, SQUARE FRAME WITH CIRCULAR WATERTIGHT COVER FOR MAINTENANCE HOLES		OPSD 401.030

USE FISH TYPE COVER ON ALL CB'S



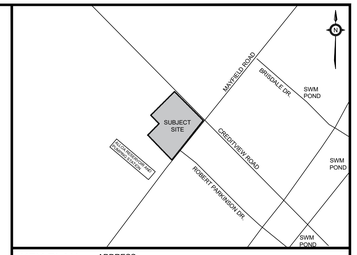
NOTE:
A This OPSD shall be read in conjunction with OPSD 400.020.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 1
CAST IRON, SQUARE FRAME FISH TYPE COVER		OPSD 401.081



NOTES:
A All aluminum in contact with concrete shall be thoroughly coated with asphalt paint.
B All bolts, nuts, and washers shall be made of Type 304 stainless steel.
C All welding shall be according to CSA W47.2 and W59.2.
D All brackets, bars, rungs, and stringers shall be fabricated from 6000 series structural aluminum.
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2013	Rev 2
ALUMINUM LADDER FOR MAINTENANCE HOLES		OPSD 406.010



KEY PLAN N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS AND DATA ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO KWA 48 HOURS PRIOR TO ANY CONSTRUCTION.

KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

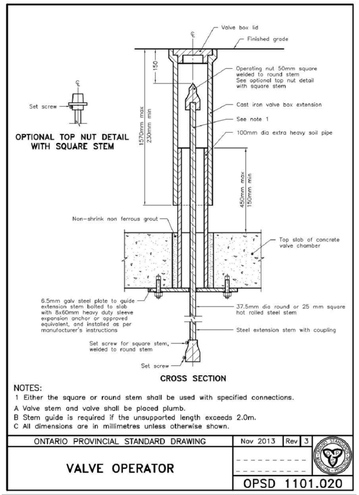
12100 CREDITVIEW DEVELOPMENTS LTD.
12100 CREDITVIEW ROAD

DETAILS PLAN - 2

SCALE:		PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	D2
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

SPA 2024-0092

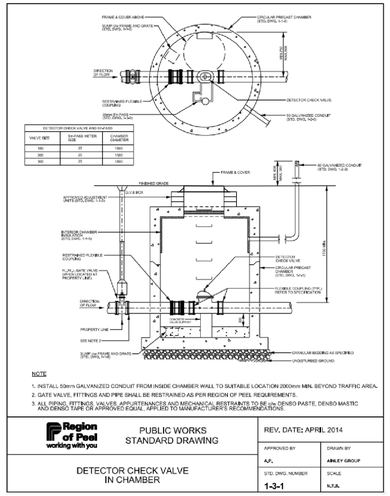
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NOTES:
1. Either the square or round stem shall be used with specified connections.

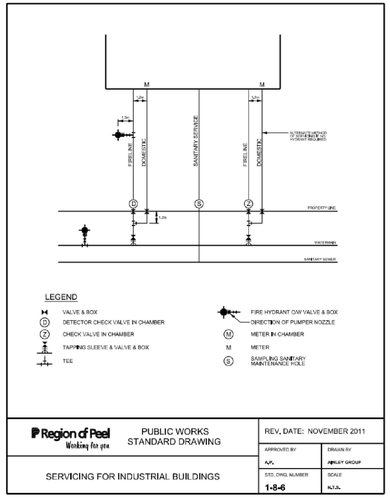
A Valve stem and valve shall be placed plumb.
B Stem guide is required if the unsupported length exceeds 2.0m.
C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2013	Rev. 3
VALVE OPERATOR		
	OPSD 1101.020	

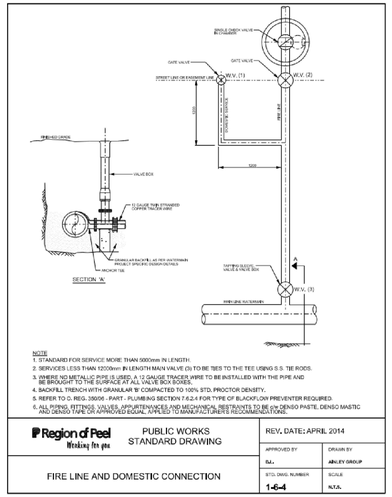


NOTE
1. INSTALL 50mm GALVANIZED CONDUIT FROM INSIDE CHAMBER WALL TO SUITABLE LOCATION 200mm MIN. BEYOND TRAFFIC AREA.
2. GATE VALVE, FITTINGS AND PIPE SHALL BE RESTRAINED AS PER REGION OF PEEL REQUIREMENTS.
3. ALL PIPING, FITTINGS, VALVES, APPURTENANCES AND MECHANICAL RESTRAINTS TO BE c/w DENSO PASTE, DENSO MASTIC AND DENSO TAPE OR APPROVED EQUAL, APPLIED TO MANUFACTURER'S RECOMMENDATIONS.

Region of Peel working with you	PUBLIC WORKS STANDARD DRAWING	REV. DATE: APRIL 2014	
DETECTOR CHECK VALVE IN CHAMBER		APPROVED BY: A.P.	DRAWN BY: ABLEY GROUP
		STD. DWG. NUMBER: 1-3-1	SCALE: N.T.S.

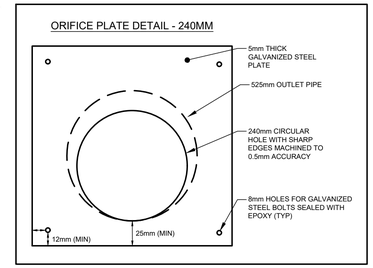


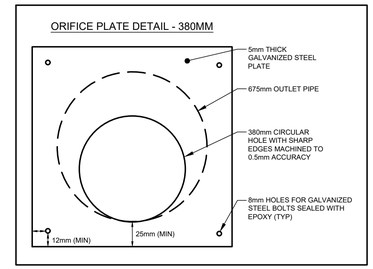
Region of Peel working with you	PUBLIC WORKS STANDARD DRAWING	REV. DATE: NOVEMBER 2011	
SERVICING FOR INDUSTRIAL BUILDINGS		APPROVED BY:	DRAWN BY: ABLEY GROUP
		STD. DWG. NUMBER: 1-8-6	SCALE: N.T.S.

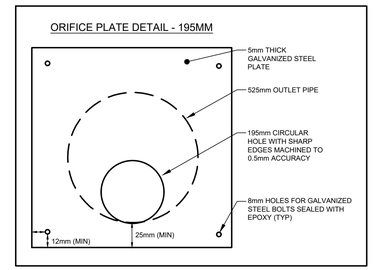


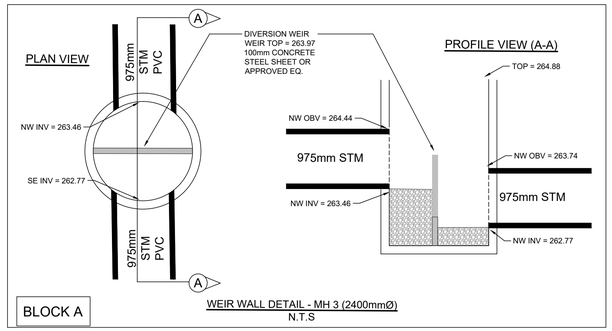
NOTE
1. STANDARD FOR SERVICE MORE THAN 5800mm IN LENGTH:
2. SERVICES LESS THAN 12000mm IN LENGTH MAIN VALVE (S) TO BE TIES TO THE TEE USING S.S. TIE RODS.
3. WHERE NO METALLIC PIPE IS USED, A 12 GAUGE TRACER WIRE TO BE INSTALLED WITH THE PIPE AND BE BROUGHT TO THE SURFACE AT ALL VALVE BOX BOXES.
4. BACKFILL TRENCH WITH GRANULAR 'B' COMPACTED TO 100% STD. PROCTOR DENSITY.
5. REFER TO O. REG. 350/06 - PART - PLUMBING SECTION 7.6.2.4 FOR TYPE OF BLACKFLOW PREVENTER REQUIRED.
6. ALL PIPING, FITTINGS, VALVES, APPURTENANCES AND MECHANICAL RESTRAINTS TO BE c/w DENSO PASTE, DENSO MASTIC AND DENSO TAPE OR APPROVED EQUAL, APPLIED TO MANUFACTURERS RECOMMENDATIONS.

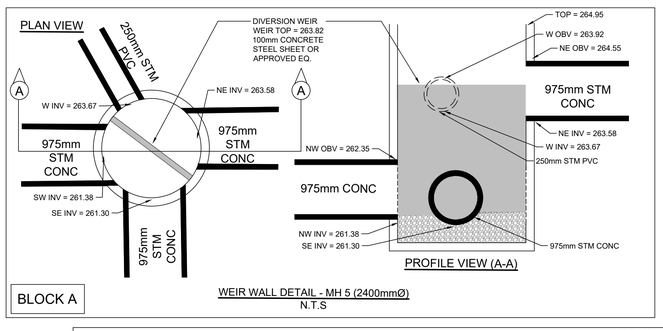
Region of Peel working with you	PUBLIC WORKS STANDARD DRAWING	REV. DATE: APRIL 2014	
FIRE LINE AND DOMESTIC CONNECTION		APPROVED BY: B.J.	DRAWN BY: ABLEY GROUP
		STD. DWG. NUMBER: 1-6-4	SCALE: N.T.S.

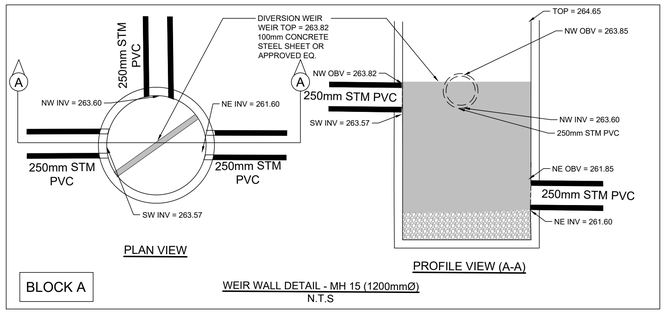


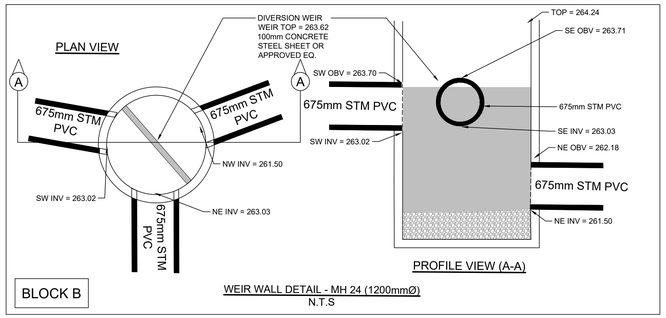


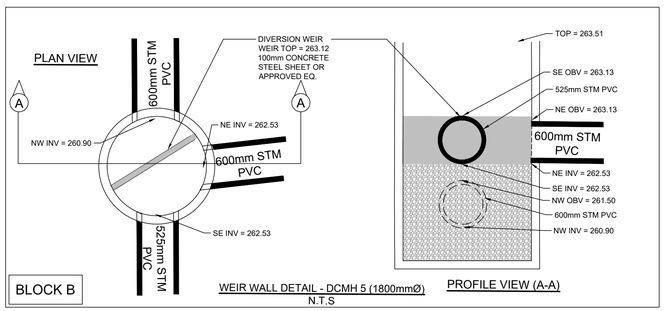


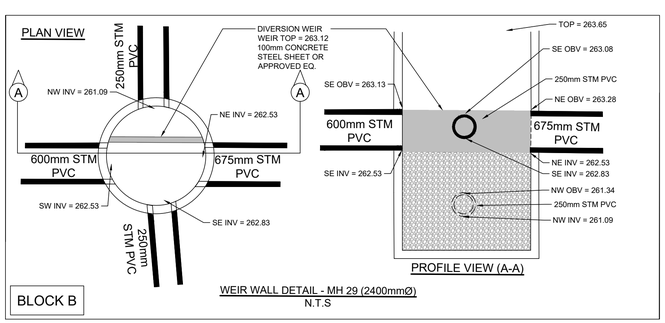


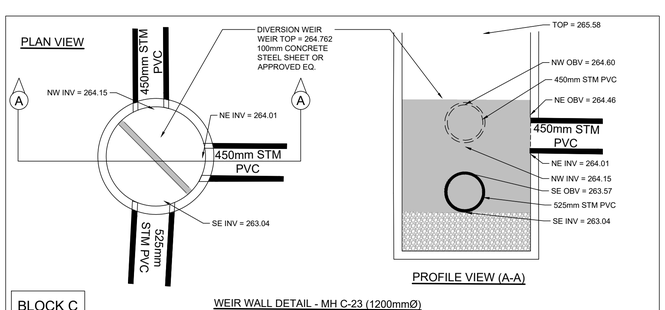


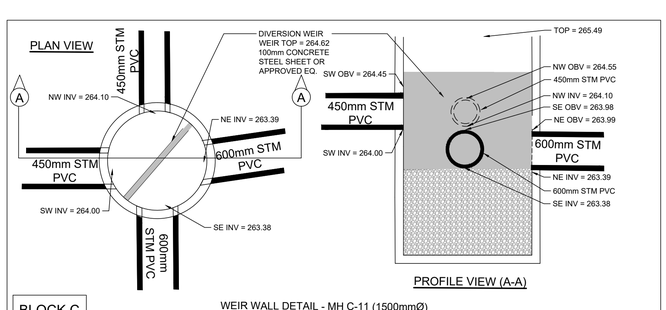




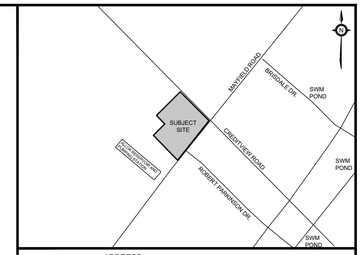








NOTE: ALL WEIR MAINTENANCE HOLES TO BE INSTALLED WITH 150MM RIDGID INSULATION UNDER FRAME COVER. INSTALLED WITH A HANDLE FOR EASY REMOVAL AND REPLACEMENT. INSULATION MUST COVER THE FULL EXTENT OF THE SLAB HOLE



KEY PLAN N.T.S.

ADDRESS:
12100 CREDITVIEW ROAD
CALEDON, ONTARIO

LEGEND

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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KWA SITE DEVELOPMENT CONSULTING
KWA SITE DEVELOPMENT CONSULTING INC. 2453 AUCKLAND DRIVE BURLINGTON, ON L7L 7A9

LICENSED PROFESSIONAL ENGINEER
T. FAIR
100176144
SEPT 17, 2025
PROVINCE OF ONTARIO

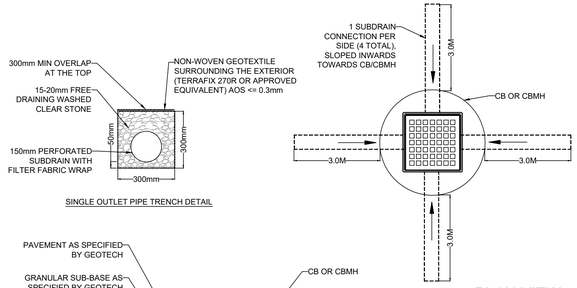
12100 CREDITVIEW DEVELOPMENTS LTD.
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DETAILS PLAN - 3

SCALE:		PROJECT #	24045
DATE:	SEPT 2024		
DRAWN BY:	TG / TF	DRAWING #	D3
DESIGNED BY:	TG / TF / PB		
CHECKED BY:	TF / RA		

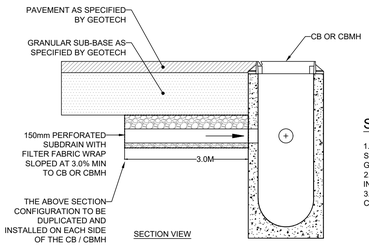
SPA 2024-0092

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SINGLE OUTLET PIPE TRENCH DETAIL

PLAN VIEW



SECTION VIEW

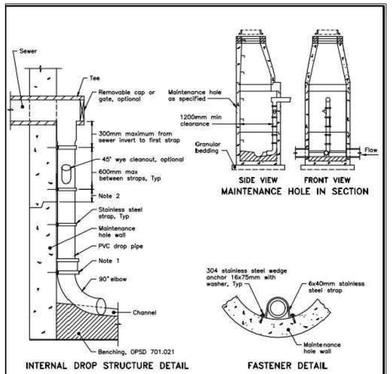
SUBDRAIN DETAIL

AT CATCHBASINS AND MANHOLES

N.T.S

SUBDRAIN DETAIL NOTES:

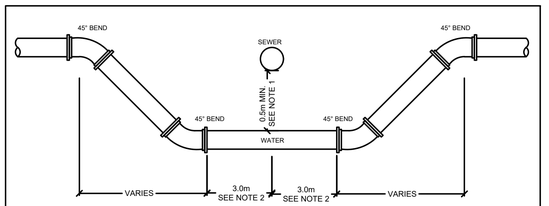
1. ALL MATERIAL AND PAVEMENT SPECIFICATION TO BE INSTALLED PER GEOTECHNICAL REQUIREMENTS
2. INSTALL SUBDRAIN PIPE TO BE FLUSH WITH INSIDE FACE OF CATCHBASIN
3. THIS DETAIL TO BE UNDERSTOOD IN CONJUNCTION WITH OPSD 207.041 & 207.044



NOTES:

1 At the elbow, a stainless steel strap is required at bottom of bell.
2 Straps shall not be placed within 150mm of any maintenance hole section joint.
A Internal drop structure shall be used in maintenance holes 1500mm diameter and larger and larger with a minimum height of 600mm from the inlet pipe invert to the bottom
B Drop pipe shall be one size smaller than the incoming sewer with a minimum 150mm diameter and maximum of 375mm diameter. A maximum of 300mm diameter for 1500mm maintenance holes.
C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2021	Rev 4
INTERNAL DROP STRUCTURE FOR NEW MAINTENANCE HOLES WITH OPTIONAL SIDE CLEANOUT		OPSD 1003.031

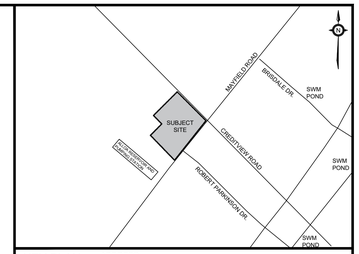


NOTE:

1. GRANULAR FILL TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY OR AS DIRECTED BY A GEOTECHNICAL ENGINEER TO MAINTAIN PIPE SEPARATION.
2. WATERMAIN JOINTS SHALL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.

WATERMAIN DEFLECTION (UNDER) DETAIL

SCALE: N.T.S



KEY PLAN
N.T.S.

ADDRESS:
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CALEDON, ONTARIO

LEGEND

BENCHMARK:	ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON HORIZONTAL CONTROL MONUMENT: No. 042200357 ELEVATION=260.691m
BEARING:	BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
SITE PLAN:	TURNER FLEISCHER, 250915
SURVEY:	J.D. BARNES, 231206

NO.	ISSUE	DATE	BY
2	SITE PLAN APPROVAL - SUBMISSION 2	250917	TF
1	SITE PLAN APPROVAL - SUBMISSION 1	241018	TF

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DETAILS PLAN - 4

SCALE:	PROJECT # 24045
DATE: SEPT 2024	
DRAWN BY: TG / TF	DRAWING # D4
DESIGNED BY: TG / TF / PB	
CHECKED BY: TF / RA	

SPA 2024-0092

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