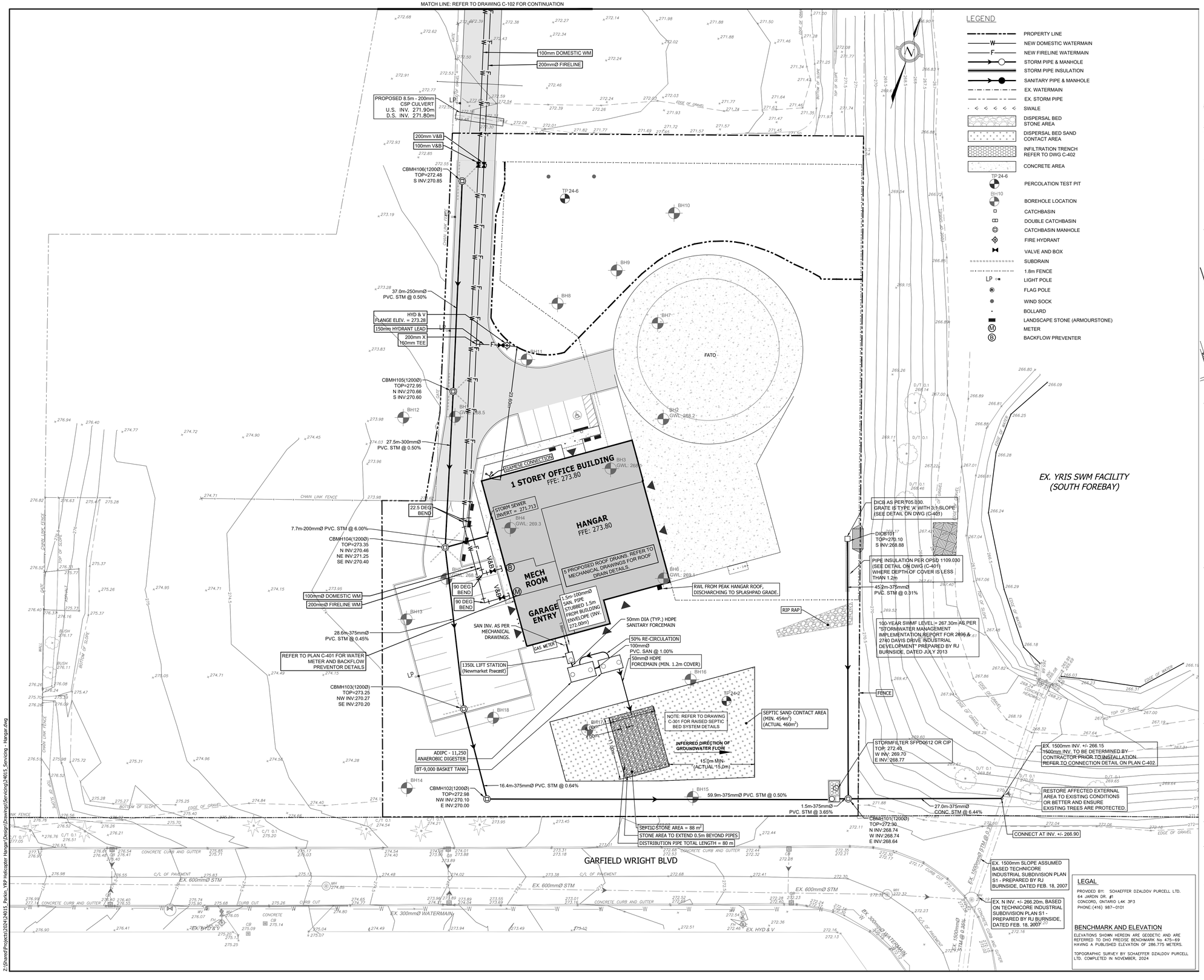
MATCH LINE: REFER TO DRAWING C-102 FOR CONTINUATION



LEGEND

- PROPERTY LINE
- NEW DOMESTIC WATERMAIN
- NEW FIRELINE WATERMAIN
- STORM PIPE & MANHOLE
- STORM PIPE INSULATION
- SANITARY PIPE & MANHOLE
- EX. WATERMAIN
- EX. STORM PIPE
- SWALE
- DISPERSAL BED STONE AREA
- DISPERSAL BED SAND CONTACT AREA
- INFILTRATION TRENCH REFER TO DWG C-402
- CONCRETE AREA
- TP 24-6 PERCOLATION TEST PIT
- BH10 BOREHOLE LOCATION
- CATCHBASIN
- DOUBLE CATCHBASIN
- CATCHBASIN MANHOLE
- FIRE HYDRANT
- VALVE AND BOX
- SUBDRAIN
- 1.8m FENCE
- LP LIGHT POLE
- FLAG POLE
- WIND SOCK
- BOLLARD
- LANDSCAPE STONE (ARMOURSTONE)
- M METER
- B BACKFLOW PREVENTER

THE SEPTIC SYSTEM IN ITS ENTIRETY HAS BEEN PROVIDED BY AZIMUTH CONSULTING LTD., DATED APRIL 30, 2025 AND IS SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES.

REFER TO ISSUED FOR CONSTRUCTION DRAWINGS PROVIDED BY AZIMUTH CONSULTING LTD. FOR CONSTRUCTION LAYOUT AND DETAILS

LEGAL

PROVIDED BY: SCHAEFFER DZALDOV PURCELL LTD.
64 JARDIN DR. #1
CONCORD, ONTARIO L4K 3P3
PHONE:(416) 987-0101

BENCHMARK AND ELEVATION

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO OHD PRECISE BENCHMARK No 475-69 HAVING A PUBLISHED ELEVATION OF 286.775 METERS.

TOPOGRAPHIC SURVEY BY SCHAEFFER DZALDOV PURCELL LTD. COMPLETED IN NOVEMBER, 2024

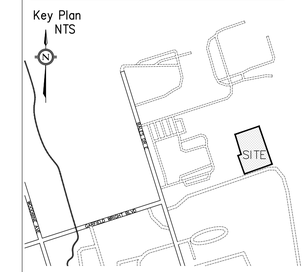
PARKIN
Parkin Architects Limited
1 VALLEYBROOK DRIVE, TORONTO, CANADA, M3B 2S7
416-467-8000

counterpoint ENGINEERING
A SUBSIDIARY OF DILLON CONSULTING LIMITED
8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

YRP HELICOPTER HANGAR

88 BALES DRIVE EAST
TOWN OF EAST GWILLIMBURY

Key Plan
NTS



NO.	ISSUED	DATE
7.	ISSUED FOR CONSTRUCTION	25-09-04
6.	RE-ISSUED FOR 4TH SPA SUBMISSION	25-08-01
5.	RE-ISSUED FOR 3RD SPA SUBMISSION	25-07-09
4.	RE-ISSUED FOR BUILDING PERMIT	25-05-09
3.	ISSUED FOR 2ND SPA SUBMISSION	25-04-25
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31

Issues

LICENSED PROFESSIONAL ENGINEER
K. V. REPKA
100117574
SEP 5/25
PROVINCE OF ONTARIO

Stamp:

Checked by:	Drawn by:	Project No:	Date:
PM	PM	24015	24-07-31

Sheet Title:

SITE SERVICING PLAN

Applicant:

YORK REGIONAL POLICE
47 DON HILLOCK DRIVE
AURORA ONTARIO L4G0S7

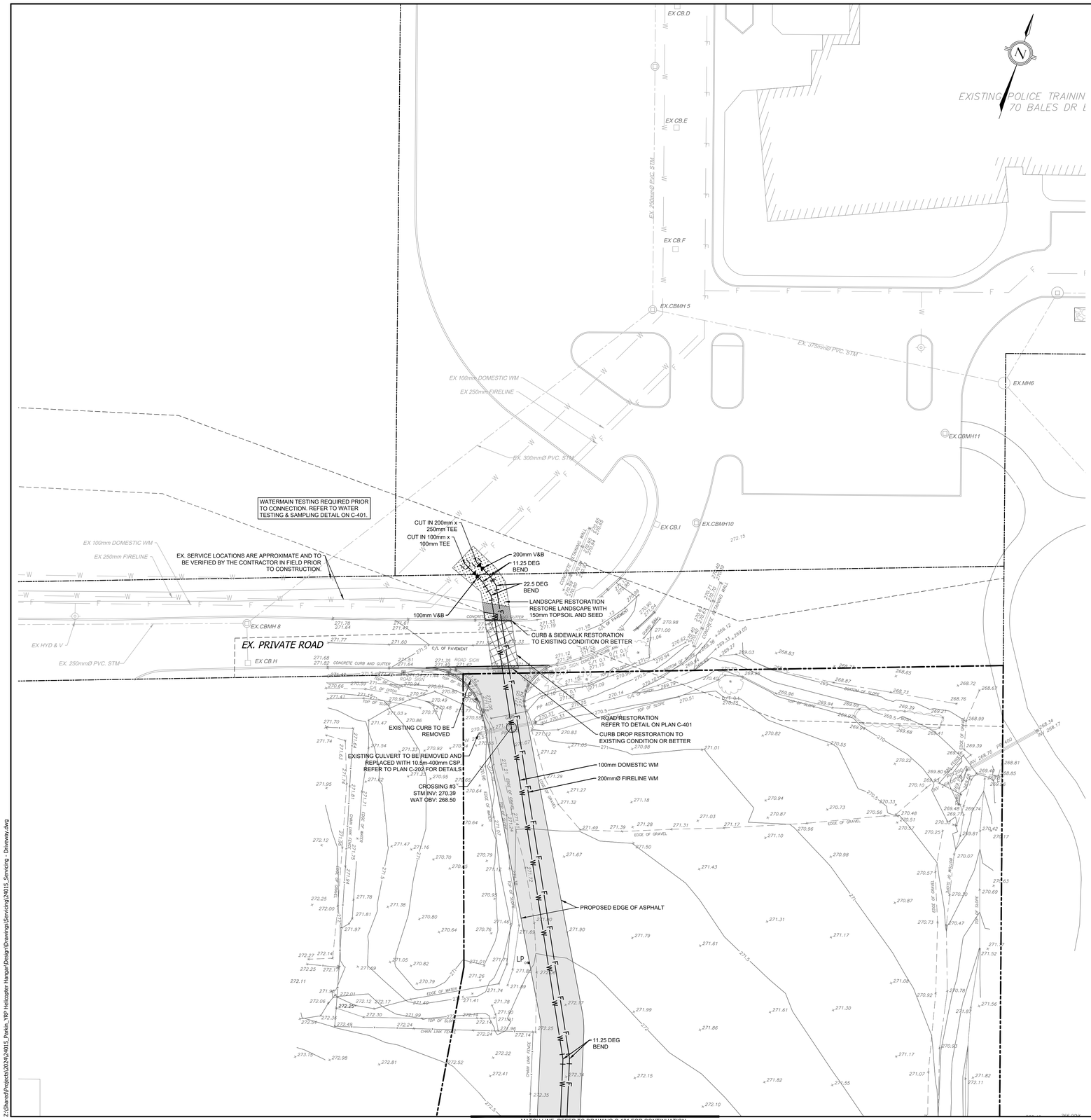
Drawing Scale:

1:300 (10 0m 5 10 15)

Drawing No:

C-101

Z:\Shared\Projects\2024\24015_Parkin_YRP Helicopter Hangar\Design\Drawings\Servicing\24015_Servicing - Hangar.dwg



LEGEND

- PROPERTY LINE
- NEW DOMESTIC WATERMAIN
- NEW FIRELINE WATERMAIN
- STORM PIPE & MANHOLE
- STORM PIPE INSULATION
- SANITARY PIPE & MANHOLE
- EX. WATERMAIN
- EX. STORM PIPE
- SWALE
- DISPERSAL BED STONE AREA
- DISPERSAL BED SAND CONTACT AREA
- INFILTRATION TRENCH
- TP 24-6 PERCOLATION TEST PIT
- CATCHBASIN
- DOUBLE CATCHBASIN
- CATCHBASIN MANHOLE
- FIRE HYDRANT
- VALVE AND BOX
- SUBDRAIN

LEGAL

PROVIDED BY: SCHAEFFER DZALDOV PURCELL LTD.
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PHONE:(416) 987-0101

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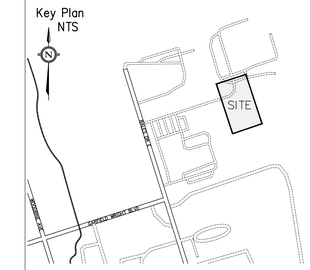
1 VALLEYBROOK DRIVE, TORONTO, CANADA, M3B 2S7
416-467-8000

counterpoint ENGINEERING
A SUBSIDIARY OF DILLON CONSULTING LIMITED
8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

YRP HELICOPTER HANGAR

88 BALES DRIVE EAST
TOWN OF EAST GWILLIMBURY

Key Plan
NTS



EXISTING STORM AND WATERMAIN SERVICES PROVIDED BY YRP TRAINING FACILITY DRAWINGS – SHEET C-100 – PROVIDED BY AECOM ENGINEERING, DATED FEB 10, 2015

NO.	ISSUED	DATE
7.	ISSUED FOR CONSTRUCTION	25-09-04
6.	RE-ISSUED FOR 4TH SPA SUBMISSION	25-08-01
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Sheet Title:

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Applicant:

YORK REGIONAL POLICE
47 DON HILOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:

1:300 — 10 0m 5 10 15

Drawing No:

C-102

Z:\Shared\Projects\2024\24015_Parkin_YRP Helicopter Hangar\Design\Drawings\Servicing\24015_Servicing - Driveway.dwg

MATCH LINE: REFER TO DRAWING C-202 FOR CONTINUATION

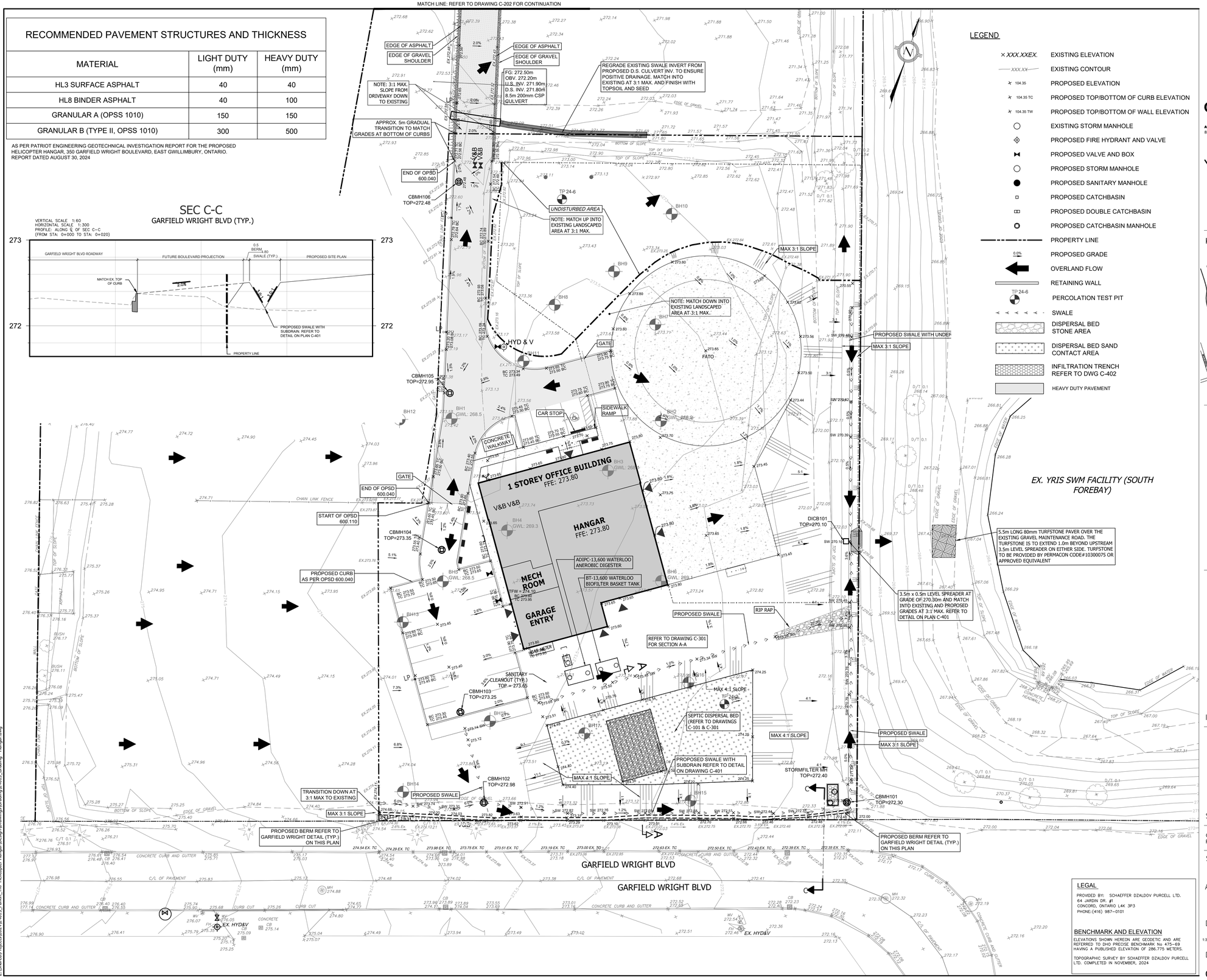
RECOMMENDED PAVEMENT STRUCTURES AND THICKNESS

MATERIAL	LIGHT DUTY (mm)	HEAVY DUTY (mm)
HL3 SURFACE ASPHALT	40	40
HL8 BINDER ASPHALT	40	100
GRANULAR A (OPSS 1010)	150	150
GRANULAR B (TYPE II, OPSS 1010)	300	500

AS PER PATRIOT ENGINEERING GEOTECHNICAL INVESTIGATION REPORT FOR THE PROPOSED HELICOPTER HANGAR, 350 GARFIELD WRIGHT BOULEVARD, EAST GWILLIMBURY, ONTARIO. REPORT DATED AUGUST 30, 2024

SEC C-C
GARFIELD WRIGHT BLVD (TYP.)

VERTICAL SCALE 1:60
HORIZONTAL SCALE 1:300
PROFILE: ALONG ℄ OF SEC C–C
(FROM STA: 0+000 TO STA: 0+020)



LEGEND

×XXX.XXEX.	EXISTING ELEVATION
XXX.XX	EXISTING CONTOUR
104.35	PROPOSED ELEVATION
104.35 TC	PROPOSED TOP/BOTTOM OF CURB ELEVATION
104.35 TW	PROPOSED TOP/BOTTOM OF WALL ELEVATION
	EXISTING STORM MANHOLE
	PROPOSED FIRE HYDRANT AND VALVE
	PROPOSED VALVE AND BOX
	PROPOSED STORM MANHOLE
	PROPOSED SANITARY MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED DOUBLE CATCHBASIN
	PROPOSED CATCHBASIN MANHOLE
	PROPERTY LINE
0.0%	PROPOSED GRADE
	OVERLAND FLOW
	RETAINING WALL
TP 24-6	PERCOLATION TEST PIT
	SWALE
	DISPERSAL BED STONE AREA
	DISPERSAL BED SAND CONTACT AREA
	INFILTRATION TRENCH REFER TO DWG C-402
	HEAVY DUTY PAVEMENT

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LEGAL

PROVIDED BY: SCHAEFFER DZALDOV PURCELL LTD.
64 JARDIN DR. #1
CONCORD, ONTARIO L4K 3P3
PHONE:(416) 987–0101

BENCHMARK AND ELEVATION

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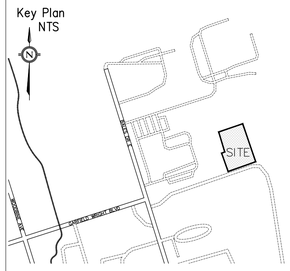
PARKIN
Parkin Architects Limited
1 VALLEYBROOK DRIVE, TORONTO, CANADA, M3B 2S7
416–467–8000

counterpoint ENGINEERING
A SUBSIDIARY OF DILLON CONSULTING LIMITED
8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

YRP HELICOPTER HANGAR

88 BALES DRIVE EAST
TOWN OF EAST GWILLIMBURY

Key Plan
NTS



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2.	ISSUED FOR SPA	24–08–30
1.	ISSUED FOR PERMIT	24–07–31

Issues

LICENSED PROFESSIONAL ENGINEER
K. V. REPKA
100117574
SEP 5/25
PROVINCE OF ONTARIO

Stamp:

Checked by:	Drawn by:	Project No:	Date:
PM	PM	24015	24–07–31

Sheet Title:

SITE GRADING PLAN

Applicant:

YORK REGIONAL POLICE
47 DON HILOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:

1:300 10 0m 5 10 15

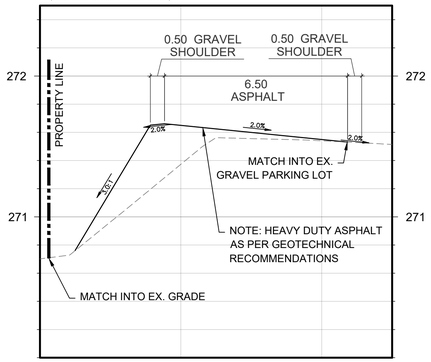
Drawing No:

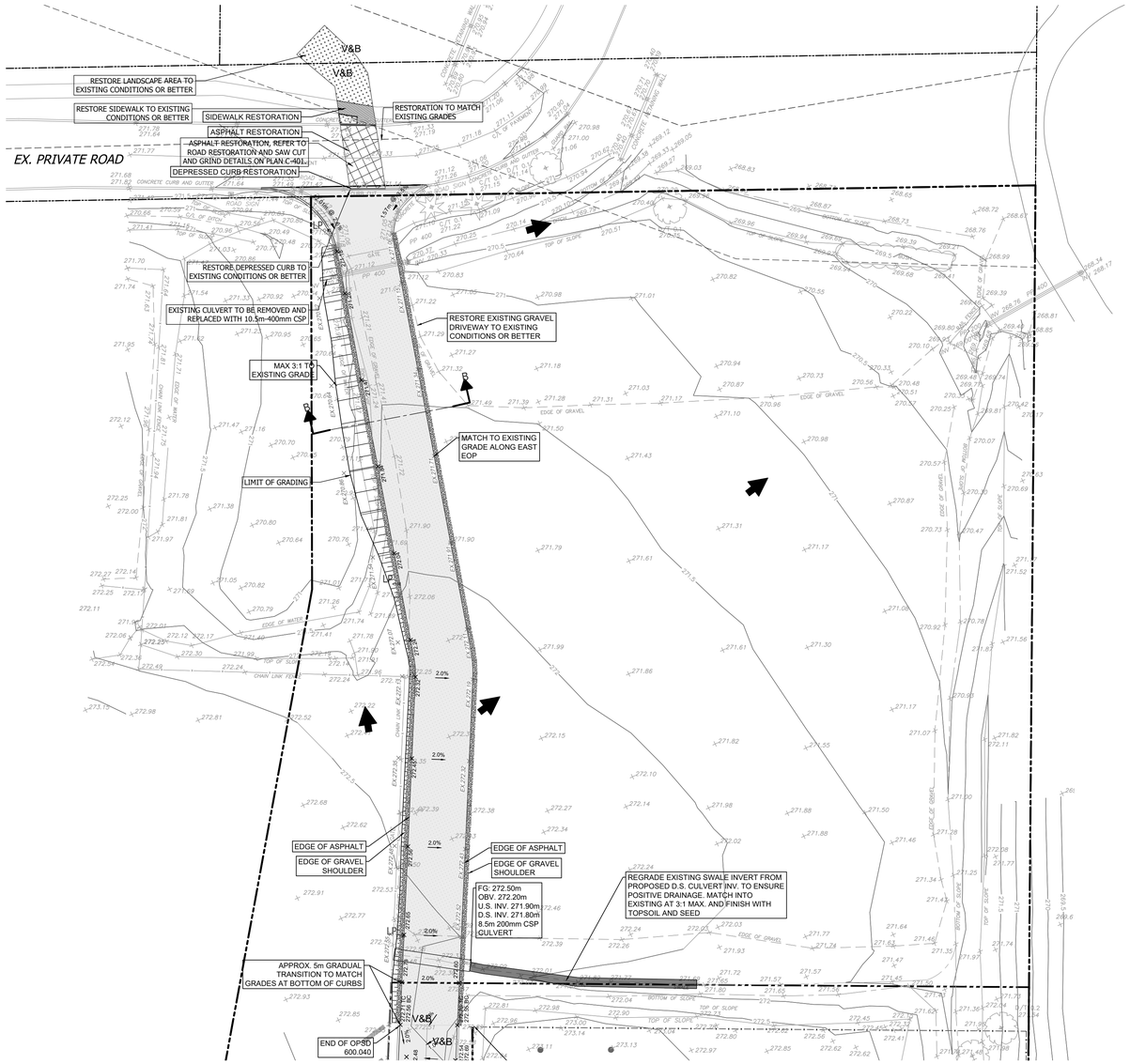
C-201

Z:\Shared\Projects\2024\24015_Parkin_YRP Helicopter Hangar\Design\Drawings\Grading\24015_Grading - Hangar.dwg

SEC B-B
DRIVEWAY THROUGH EXISTING GRAVEL PARKING LOT DETAIL

VERTICAL SCALE 1:60
HORIZONTAL SCALE 1:300
PROFILE: ALONG ℄ OF SEC B–B
(FROM STA: 0+000 TO STA: 0+012)





MATCH LINE: REFER TO DRAWING C-201 FOR CONTINUATION

LEGEND

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XXX.XX	EXISTING CONTOUR
104.35	PROPOSED ELEVATION
104.35 TC	PROPOSED TOP/BOTTOM OF CURB ELEVATION
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	PROPOSED VALVE AND BOX
	PROPOSED STORM MANHOLE
	PROPOSED SANITARY MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED DOUBLE CATCHBASIN
	PROPOSED CATCHBASIN MANHOLE
	PROPERTY LINE
0.0%	PROPOSED GRADE
	OVERLAND FLOW
	RETAINING WALL
TP 24-6	PERCOLATION TEST PIT
	SWALE
	LANDSCAPE AREA RESTORATION
	SIDEWALK RESTORATION
	ASPHALT RESTORATION
	HEAVY DUTY PAVEMENT
	CURB RESTORATION

LEGAL

PROVIDED BY: SCHAEFFER DZALDOV PURCELL LTD.
64 JARDIN DR. #1
CONCORD, ONTARIO L4K 3P3
PHONE:(416) 987-0101

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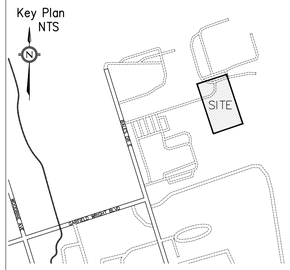
1 VALLEYBROOK DRIVE, TORONTO, CANADA, M3B 2S7
416-467-8000

counterpoint ENGINEERING
A SUBSIDIARY OF DILLON CONSULTING LIMITED
8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

YRP HELICOPTER HANGAR

88 BALES DRIVE EAST
TOWN OF EAST GWILLIMBURY

Key Plan
NTS



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2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31

Issues

LICENSED PROFESSIONAL ENGINEER
K. V. REPKA
100117574
SEP 5/25
PROVINCE OF ONTARIO

Stamp:

Checked by:	Drawn by:	Project No:	Date:
PM	PM	24015	24-07-31

Sheet Title:

SITE GRADING PLAN

Applicant:

YORK REGIONAL POLICE
47 DON HILOCK DRIVE
AURORA ONTARIO L4G0S7

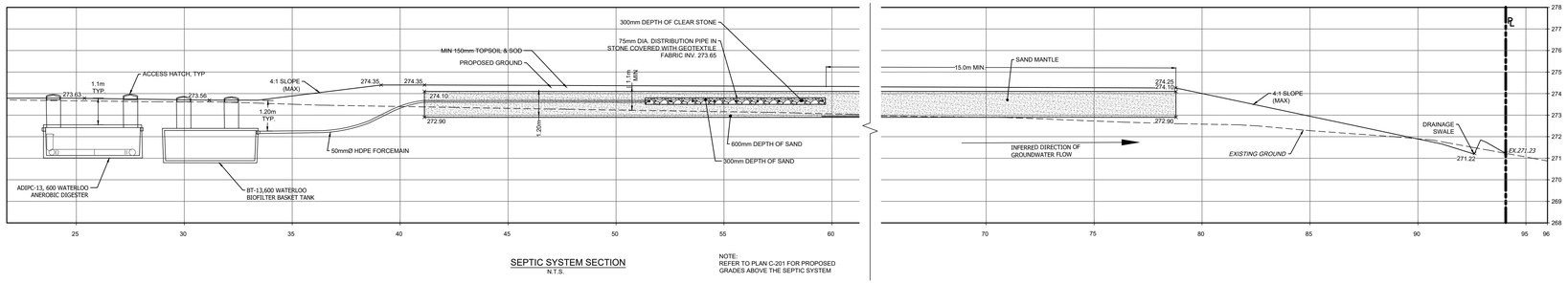
Drawing Scale:

1:300 10 0m 5 10 15

Drawing No:

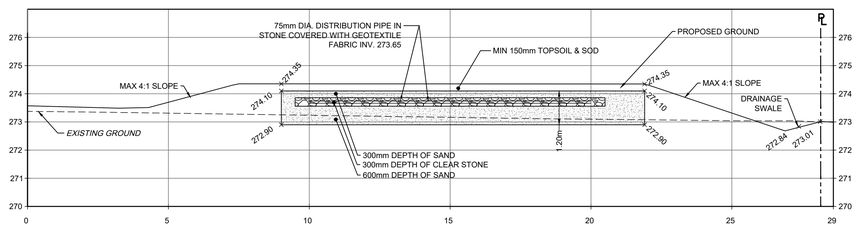
C-202

Z:\Shared\Projects\2024\24015_Parkin_YRP Helicopter Hangar\Design\Drawings\Grading\24015_Grading - Driveway.dwg

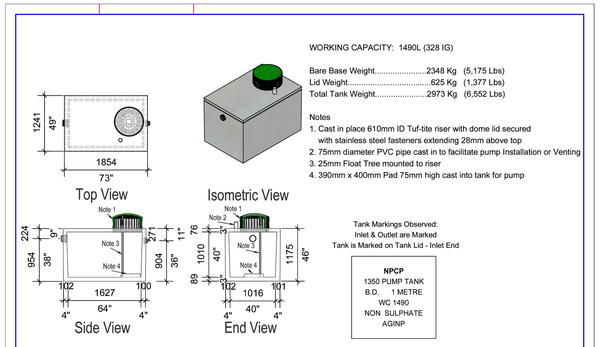


SEPTIC SYSTEM SECTION
N.T.S.

NOTE:
REFER TO PLAN C-201 FOR PROPOSED GRADES ABOVE THE SEPTIC SYSTEM



SECTION A-A
SCALE 1:100



WORKING CAPACITY: 1490L (328 IG)

Bare Base Weight.....2348 Kg (5,175 Lbs)
Lid Weight.....625 Kg (1,377 Lbs)
Total Tank Weight.....2973 Kg (6,552 Lbs)

Notes
1. Cast in place 610mm ID Tuf-tite riser with dome lid secured with stainless steel fasteners extending 28mm above top
2. 75mm diameter PVC pipe cast in to facilitate pump Installation or Venting
3. 25mm Float Tree mounted to riser
4. 390mm x 400mm Pad 75mm high cast into tank for pump

Tank Markings Observed:
Inlet & Outlet are Marked
Tank is Marked on Tank Lid - Inlet End

NPCP
1350 PUMP TANK
B.D. 1 METRE
WC 1490
NON SULPHATE
AGINP

NEWMARKET PRE-CAST
Solid For 60 Years

20 Victoria St
Uxbridge, ON L9P 1N4
Tel: 905-852-6111
Toll Free: 1-800-263-1297
Fax: 905-852-4340
Info@Newmarketprecast.com
Newmarketprecast.com

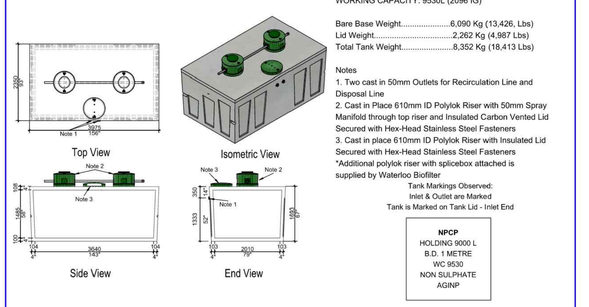
Model 1350 Pump Tank
300 Imperial Gallon

Designed for up to **One Metre** burial over top of tank - Deep burial and vehicle traffic tanks are available upon request. Specialty conformations may be possible

- This tank design is a one piece unit. Top is sealed with a fibrous mastic sealant
- Tanks are cast with 45 MPA strength concrete at 7 days with 5-7% air
- 3.0 Kg. structural fibre added to concrete. ASTM C 1116
- Lid reinforced with 10m pre-manufactured welded wire.
- Rebar Cover 25mm, CAN/CSA-G30.18.
- Tanks conform to National Standard of Canada CAN/CSA B66-16
- Non-sulphate resistant concrete
- Standard 100mm Inlet and one 50mm Outlet with flexible rubber connections

H/W = 8 1/2" / 11"

Allplan 2021



WORKING CAPACITY: 9530L (2096 IG)

Bare Base Weight.....6,090 Kg (13,426, Lbs)
Lid Weight.....2,262 Kg (4,987 Lbs)
Total Tank Weight.....8,352 Kg (18,413 Lbs)

Notes
1. Two cast in 50mm Outlets for Recirculation Line and Disposal Line
2. Cast in Place 610mm ID Polylok Riser with 50mm Spray Manifold through top riser and Insulated Carbon Vented Lid Secured with Hex-Head Stainless Steel Fasteners
3. Cast in place 610mm ID Polylok Riser with Insulated Lid Secured with Hex-Head Stainless Steel Fasteners
*Additional polylok riser with splicebox attached is supplied by Waterloo Biofilter

Tank Markings Observed:
Inlet & Outlet are Marked
Tank is Marked on Tank Lid - Inlet End

NPCP
HOLDING 9000 L
B.D. 1 METRE
WC 9530
NON SULPHATE
AGINP

NEWMARKET PRE-CAST
Solid For 60 Years

20 Victoria St
Uxbridge, ON L9P 1N4
Tel: 905-852-6111
Toll Free: 1-800-263-1297
Fax: 905-852-4340
Info@Newmarketprecast.com
Newmarketprecast.com

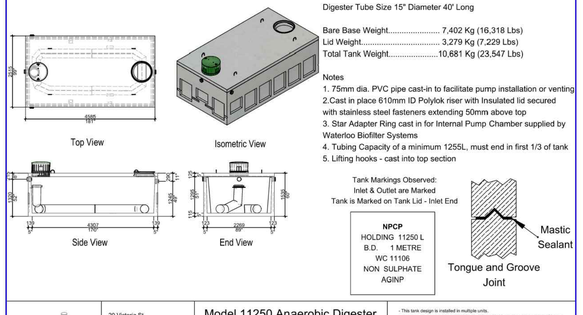
Model 9000 Basket Tank
2000 Imperial Gallon

Designed for up to **One Metre** burial over top of tank - Deep burial and vehicle traffic tanks are available upon request. Specialty conformations may be possible

- This tank design is a one piece unit. Top is sealed with a fibrous mastic sealant
- Tanks are cast with 45 MPA strength concrete at 7 days with 5-7% air
- Steel reinforced with 4-10M in the long direction, 5-10M in the short direction in the base and in the walls 4-10M horizontal with vertical matching the base
- 1.5 Kg. structural fibre added to concrete. ASTM C 1116
- Lid reinforced with 10m pre-manufactured welded wire.
- Rebar Cover 25mm, CAN/CSA-G30.18.
- Tanks conform to National Standard of Canada CAN/CSA B66-16
- Non-sulphate resistant concrete
- Standard three 100mm Inlets and one 100mm Outlet with flexible rubber connections

H/W = 8 1/2" / 11"

Allplan 2021



WORKING CAPACITY: 11,106L (2,443 IG)

Digester Tube Size 15" Diameter 40' Long

Bare Base Weight..... 7,402 Kg (16,318 Lbs)
Lid Weight..... 3,279 Kg (7,229 Lbs)
Total Tank Weight.....10,681 Kg (23,547 Lbs)

Notes
1. 75mm dia. PVC pipe cast-in to facilitate pump installation or venting
2.Cast in place 610mm ID Polylok riser with Insulated lid secured with stainless steel fasteners extending 50mm above top
3. Star Adapter Ring cast in for Internal Pump Chamber supplied by Waterloo Biofilter Systems
4. Tubing Capacity of a minimum 1255L, must end in first 1/3 of tank
5. Lifting hooks - cast into top section

Tank Markings Observed:
Inlet & Outlet are Marked
Tank is Marked on Tank Lid - Inlet End

NPCP
HOLDING 11250 L
B.D. 1 METRE
WC 11106
NON SULPHATE
AGINP

Tongue and Groove Joint

NEWMARKET PRE-CAST
Solid For 60 Years

20 Victoria St
Uxbridge, ON L9P 1N4
Tel: 905-852-6111
Toll Free: 1-800-263-1297
Fax: 905-852-4340
Info@Newmarketprecast.com
Newmarketprecast.com

Model 11250 Anaerobic Digester with Internal Pump Chamber
2500 Imperial Gallons

Designed for up to **One Metre** burial over top of tank - Deep burial and vehicle traffic tanks are available upon request. Specialty conformations may be possible

- This tank design is installed in multiple units.
- Each unit is tongue and groove design and is sealed with a fibrous mastic sealant
- Tanks are cast with 45 MPA strength concrete at 7 days with 5-7% air
- Steel reinforced with 10m rebar, spaced at 300mm in each direction at 25mm cover.
- Rebar Cover 25mm, CAN/CSA-G30.18.
- Tanks conform to National Standard of Canada CAN/CSA B66-16
- Non-sulphate resistant concrete
- Standard three 100mm Inlets and one 100mm Outlet

H/W = 8 1/2" / 11"

Allplan 2021

SEPTIC SYSTEM NOTES

GENERAL NOTES FOR DISPOSAL BED

1. ALL PIPING AND PLUMBING MATERIALS MUST CONFORM TO THE PLUMBING CODE.
2. ALL PIPE INSTALLATIONS MUST CONFORM TO THE PLUMBING CODE.
3. ALL PIPE CONNECTIONS SHALL BE FLEXIBLE AND WATERTIGHT.
4. THE DISTRIBUTION PIPE SHALL BE SLOPED NOT LESS THAN 30mm AND NOT GREATER THAN 50mm FOR EACH 10m OF DISTRIBUTION PIPE (IF APPLICABLE).
5. THE DISTRIBUTION PIPE SHALL BE COVERED WITH THE STONE TO A HEIGHT OF AT LEAST 50mm ABOVE THE TOP OF THE DISTRIBUTION PIPE (IF APPLICABLE).
6. AN ADEQUATE SOIL COVERING THAT IS CROWNED AND SHEDS WATER FROM THE AREA BED IS REQUIRED.
7. THE DISPOSAL BED SHALL NOT BE CONSTRUCTED IN A MANNER THAT CAN ADVERSELY AFFECT THE PERFORMANCE OF THE SYSTEM SUCH AS COMPACTING OR SMEARING THE NATIVE SOILS.
8. THE DISPOSAL BED SHALL NOT BE CONSTRUCTED IN A LOCATION THAT CAN ADVERSELY AFFECT THE PERFORMANCE OF THE SYSTEM SUCH AS FLOOD-PRONE AREAS OR INAPPROPRIATE SLOPES.
9. BED ELEVATIONS TO BE VERIFIED IN THE FIELD BY SEPTIC INSTALLER/CONTRACTOR.
10. THE STONE LAYER SHALL BE PROTECTED FROM CLOGGING BY AN APPROPRIATE GEOTEXTILE FABRIC COVERING.
11. ONLY DISPOSAL MATERIAL MEETING GRADING REQUIREMENTS ACCEPTABLE TO THE MECP FOR DISPOSAL BED CONSTRUCTION MAY BE USED.
12. AS PER OBC SECTION 8.7.7.1(4), THE SAND LAYER MUST BE COMPRISED OF SAND THAT HAS A PERCOLATION RATE OF AT LEAST 6 AND NOT MORE THAN 10 MIN/CM, NOT MORE THAN 5% FINES PASSING THROUGH A 0.074 MM (NO. 200) SIEVE, AND A MINIMUM THICKNESS OF 300mm.
13. CONSTRUCTION OF THE DISPOSAL BED MUST ADHERE TO REQUIREMENTS OUTLINED IN OBC SECTION 8.7.7 (TYPE A DISPERSAL BED).
14. CONTACT AREA BETWEEN THE DISPOSAL AND UNDERLYING SOIL MUST NOT BE LESS THAN THE AREA =QT/400 WHERE BED Q IS THE DAILY SEWAGE FLOW AND T IS THE PERCOLATION RATE OF THE SOIL.
15. SANITARY PIPES/FORCEMAINS SHALL BE INSULATED UNDER ROADWAYS AND WALKWAYS AT A DEPTH GREAT ENOUGH TO ENSURE PROTECTION AGAINST FROST AND CRUSHING.
16. ALL GRAVITY CONNECTIONS SHALL HAVE A MINIMUM 2% GRADE, UNLESS OTHERWISE SPECIFIED.
17. SIDE SLOPES VARY TO A MAX OF 4:1 OR 3:1 IF MEASURES ARE TAKEN TO PREVENT EROSION AND ENSURE STABILITY OF LEACHING BED.
18. EXACT LOCATION OF DISPOSAL BED AND TANKS TO BE CONFIRMED IN THE FIELD BY SEPTIC INSTALLER
19. BOTTOM OF STONE LAYER 0.6m ABOVE BEDROCK OR HIGHWATER TABLE OR SOIL WITH T ≥ 50min/cm.
20. THE MINIMUM DISTANCE BETWEEN THE DISTRIBUTION PIPING AND ANY STRUCTURE IS 5m
21. THE MINIMUM DISTANCE BETWEEN THE DISTRIBUTION PIPING AND PROPERTY BOUNDARY IS 3m
22. THE MINIMUM DISTANCE BETWEEN ANY TREATMENT TANK(S) AND A STRUCTURE IS 1.5m
23. THE MINIMUM DISTANCE BETWEEN ANY TREATMENT TANK(S) AND A PROPERTY BOUNDARY IS 3.0m.
24. PERCOLATION RATE OF T=50min/cm USED IN THE DESIGN OF THE DISPOSAL BED.
25. PERCOLATION RATE OF NATIVE SOILS IS 20min/cm (GEI, 2022) BASED ON TWO TEST HOLES.
26. MINIMUM 30cm TO BE MAINTAINED OVER MANTLE & CONTACT AREA.

PARKIN
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1 VALLEYBROOK DRIVE, TORONTO, CANADA, M3B 2S7
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counterpoint ENGINEERING
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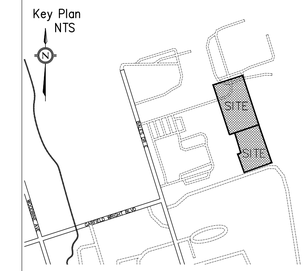
YRP HELICOPTER HANGAR

88 BALES DRIVE EAST
TOWN OF EAST GWILLIMBURY

Key Plan
NTS



THE SEPTIC SYSTEM IN ITS ENTIRETY HAS BEEN PROVIDED BY AZIMUTH CONSULTING LTD., DATED APRIL 30, 2025 AND IS SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES.

NO.	ISSUED	DATE
7.	ISSUED FOR CONSTRUCTION	25-09-04
6.	RE-ISSUED FOR 4TH SPA SUBMISSION	25-08-01
5.	RE-ISSUED FOR 3RD SPA SUBMISSION	25-07-09
4.	RE-ISSUED FOR BUILDING PERMIT	25-05-09
3.	ISSUED FOR 2ND SPA SUBMISSION	25-04-25
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31

Issues

Stamp:

Checked by:	Drawn by:	Project No:	Date:
PM	PM	24015	24-07-31

Sheet Title:
SEPTIC SYSTEM NOTES & DETAILS

Applicant:
YORK REGIONAL POLICE
47 DON HILOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:
AS NOTED

Drawing No:
C-301

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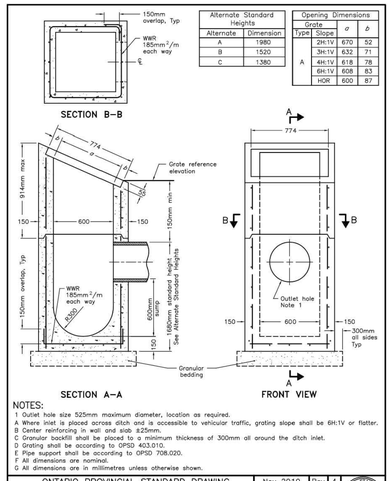


Alternate Standard Heights	
Alternate	Dimension
A	1980
B	1520
C	1380

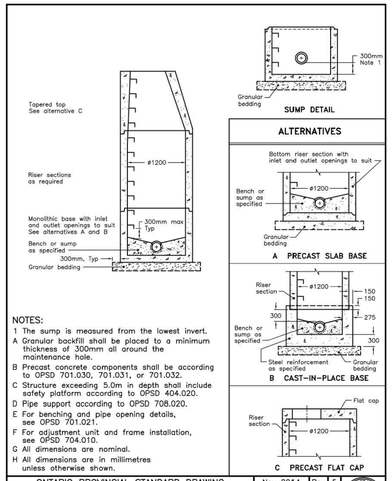
Opening Dimensions			
Grate			
Type	Slope	q	p
A	2H:1V	670	52
	3H:1V	632	71
	4H:1V	618	78
	6H:1V	608	83
	HOR	600	87

NOTES:
1 Outlet hole size 525mm maximum diameter, location as required.
A Where inlet is placed across ditch and is accessible to vehicular traffic, grating slope shall be 6H:1V or flatter.
B Center reinforcing in wall and slab ±25mm.
C Granular backfill shall be placed to a minimum thickness of 300mm all around the ditch inlet.
D Grating shall be according to OPSD 403.010.
E Pipe support shall be according to OPSD 708.020.
F All dimensions are nominal.
G All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2019 | Rev 4

PRECAST CONCRETE DITCH INLET
600 x 600mm

OPSD 705.030

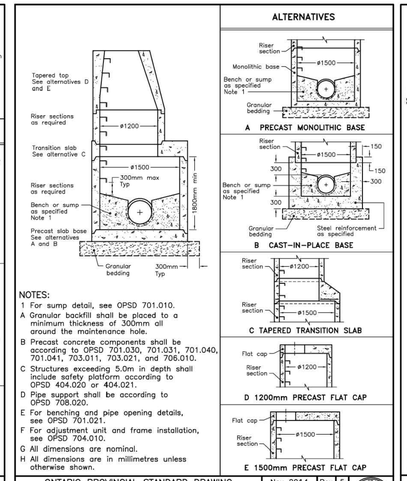


NOTES:
1 The sump is measured from the lowest invert.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
C Structure exceeding 5.0m in depth shall include safety platform 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

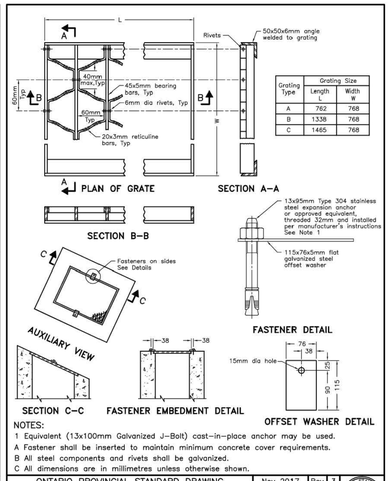


NOTES:
1 For sump detail, see OPSD 701.010.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, 701.040, 701.041, 703.011, 703.021, and 706.010.
C Structures exceeding 5.0m in depth 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



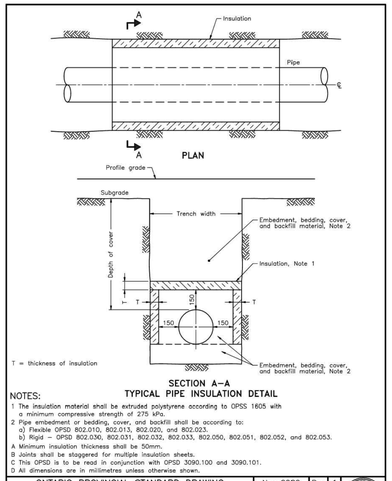
Grating Size		
Grating Type	Length L	Width W
A	762	768
B	1338	768
C	1465	768

NOTES:
1 Equivalent (13x100mm Galvanized J–Bolt) cast–in–place anchor may be used.
A Fastener shall be inserted to maintain minimum concrete cover requirements.
B All steel components and rivets shall be galvanized.
C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2017 | Rev 3

GALVANIZED STEEL
HONEYCOMB GRATING
FOR DITCH INLETS

OPSD 403.010

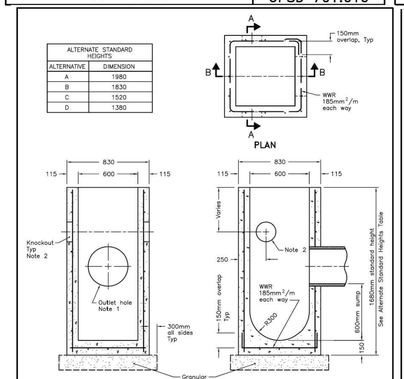


NOTES:
1 The insulation material shall be extruded polystyrene according to OPSS 1605 with a minimum compressive strength of 275 kPa.
2 Pipe embedment or bedding, cover, and backfill shall be according to:
a) Flexible OPSD 802.010, 802.013, 802.020, and 802.023.
b) Rigid – OPSD 802.030, 802.031, 802.032, 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



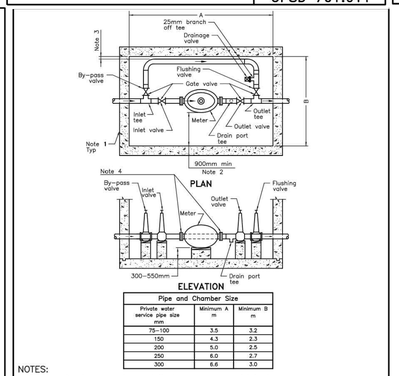
ALTERNATE STANDARD HEIGHTS	
ALTERNATE	DIMENSION
A	1980
B	1830
C	1520
D	1380

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 2019 | Rev 4

PRECAST CONCRETE CATCH BASIN
600x600mm

OPSD 705.010



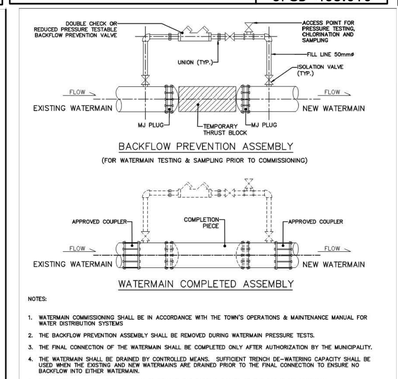
Pipe and Chamber Size		
Private water service pipe size mm	Minimum A m	Minimum B m
75–100	3.5	3.2
150	4.3	2.3
200	5.0	2.5
250	6.0	2.7
300	6.6	3.0

NOTES:
1 Circular chambers may be used if clearances are maintained.
2 Water meters shall be installed with a minimum 900mm unobstructed clearance in front of water meter to the nearest wall.
3 By–pass piping shall be installed with a minimum 300mm unobstructed clearance from the outside wall of the bypass pipe to the nearest wall.
4 Refer to manufacturer's installation recommendation for up and downstream piping requirement
A A 75mm meter shall have 75mm to 100mm increasers on each side.
B By–pass line size shall be same size as the meter line.
C All joints shall be restrained.
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2019 | Rev 3

PIPING LAYOUT FOR
WATER METERS 75 TO 250mm
IN CHAMBERS WITH BY–PASS

OPSD 1107.020



NOTES:
1. WATERMAIN COMMISSIONING SHALL BE IN ACCORDANCE WITH THE TOWN'S OPERATIONS & MAINTENANCE MANUAL FOR WATER DISTRIBUTION SYSTEMS
2. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE REMOVED DURING WATERMAIN PRESSURE TESTS.
3. THE FINAL CONNECTION OF THE WATERMAIN SHALL BE COMPLETED ONLY AFTER AUTHORIZATION BY THE MUNICIPALITY.
4. THE WATERMAIN SHALL BE DRAINED BY CONTROLLED MEANS. SUFFICIENT TRENCH DE–WATERING CAPACITY SHALL BE USED WHEN THE EXISTING AND NEW WATERMAINS ARE DRAINED PRIOR TO THE FINAL CONNECTION TO ENSURE NO BACKFLOW INTO EITHER WATERMAIN.
5. THE WATERMAIN SHALL BE CUT BACK TO REMOVE THE TAPPING POINTS OF THE BACKFLOW ASSEMBLY.
6. ALL NEW PIPING AND APPURTENANCES PLACED IN THE CONNECTION SHALL BE NEW, UNUSED AND BE THOROUGHLY DISINFECTED WITH 1% SOLUTION OF SODIUM HYPOCHLORITE OR EQUIVALENT.
7. ON NON–METALLIC WATERMAINS, THE TRACER WIRE SHALL BE CONNECTED TO THE COUPLER ONLY IF THE COUPLER IS NOT IN CONTACT WITH A METALLIC WATERMAIN OTHERWISE TERMINATE TRACER WIRE WITH AN ANODE.
8. A PHYSICAL SEPARATION MUST BE MAINTAINED AT ALL CONNECTION POINTS OF NEW WATERMAINS TO THE EXISTING SYSTEMS UNTIL BACTEROLOGICAL TESTS HAVE PASSED. A SAMPLING TAP MUST BE PROVIDED AT THE END OF EACH BRANCH OR STUB.
9. ONLY THE MUNICIPAL STAFF SHALL OPERATE MUNICIPAL–OWNED VALVES.
10. THIS DETAIL IS FOR SCHEMATIC INFORMATION ONLY. THE ACTUAL CONFIGURATION USED MUST SATISFY THE INTENT OF THIS DRAWING.

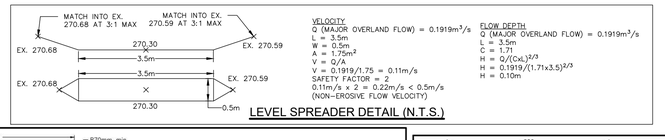
TOWN OF EAST GWILLIMBURY STANDARD DRAWING

NO.	REVISION	DATE	BY
1	ISSUED FOR REVIEW	2012/12/12	K.B.

East Gwillimbury ENGINEERING DEPARTMENT

WATER TESTING & SAMPLING DETAIL

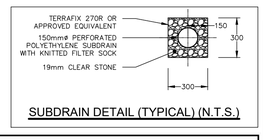
K.B. | D.A. | N.T.S. | JUNE, 2012



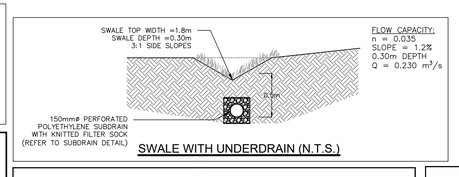
VELOCITY
Q (MAJOR OVERLAND FLOW) = 0.1919m³/s
L = 3.5m
W = 0.5m
A = 1.75m²
V = Q/A
V = 0.1919/1.75 = 0.11m/s
SAFETY FACTOR = 2
0.11m/s x 2 = 0.22m/s < 0.5m/s
(NON–EROSIVE FLOW VELOCITY)

FLOW DEPTH
Q (MAJOR OVERLAND FLOW) = 0.1919m³/s
L = 3.5m
C = 1.71
H = Q/(CxL)^2/3
H = 0.1919/(1.71x3.5)^2/3
H = 0.10m

LEVEL SPREADER DETAIL (N.T.S.)

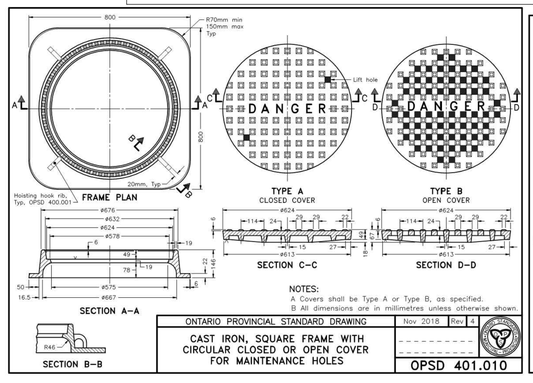


SUBDRAIN DETAIL (TYPICAL) (N.T.S.)



FLOW CAPACITY:
n = 0.035
SLOPE = 1.2%
0.30m DEPTH
Q = 0.230 m³/s

SWALE WITH UNDERDRAIN (N.T.S.)

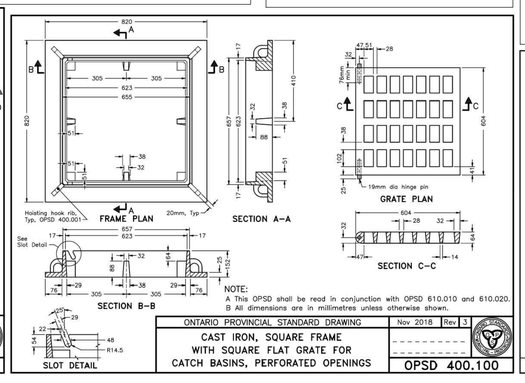


NOTES:
A Covers shall be Type A or Type B, as specified.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2018 | Rev 4

CAST IRON, SQUARE FRAME WITH
CIRCULAR CLOSED OR OPEN COVER
FOR MAINTENANCE HOLES

OPSD 401.010

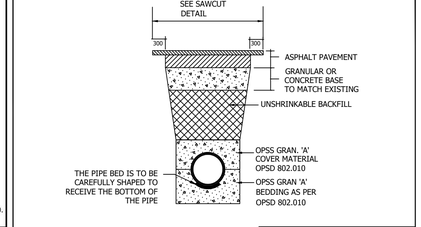


NOTE:
A This OPSD shall be read in conjunction with OPSD 610.010 and 610.020.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2018 | Rev 3

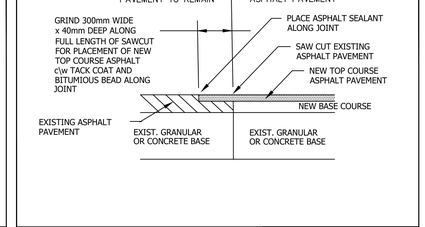
CAST IRON, SQUARE FRAME
WITH SQUARE FLAT GRATE FOR
CATCH BASINS, PERFORATED OPENINGS

OPSD 400.100



ROAD RESTORATION

counterpoint ENGINEERING
COUNTERPOINT ENGINEERING INC.
8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405
SCALE | N.T.S.



SAW CUT AND GRIND

counterpoint ENGINEERING
COUNTERPOINT ENGINEERING INC.
8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405
SCALE | N.T.S.

Z:\Shared\Projects\2024\24015, Parkin, YRP Helicopter Hangar\Design\Drawings\Title Block\24015_TBLOCK 24x36.dwg

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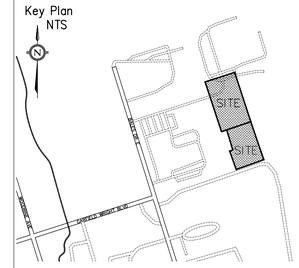
YRP HELICOPTER HANGAR

88 BALES DRIVE EAST
TOWN OF EAST GWILLIMBURY

Key Plan
NTS



NO.	ISSUED	DATE
7.	ISSUED FOR CONSTRUCTION	25–09–04
6.	RE–ISSUED FOR 4TH SPA SUBMISSION	25–08–01
5.	RE–ISSUED FOR 3RD SPA SUBMISSION	25–07–09
4.	RE–ISSUED FOR BUILDING PERMIT	25–05–09
3.	ISSUED FOR 2ND SPA SUBMISSION	25–04–25
2.	ISSUED FOR SPA	24–08–30
1.	ISSUED FOR PERMIT	24–07–31

Issues

LICENSED PROFESSIONAL ENGINEER
K. V. REPKA
100117574
SEP 5/25
PROVINCE OF ONTARIO

Stamp:

Checked by:	Drawn by:	Project No:	Date:
PM	PM	24015	24–07–31

Sheet Title:

DETAILS

Applicant:

YORK REGIONAL POLICE
47 DON HILOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:

Drawing No:

C-401

GENERAL CONSTRUCTION NOTES

1. ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT MUNICIPAL, AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
2. ALL CONSTRUCTION SIGNING MUST CONFORM TO THE M.T.O. MANUAL OF "UNIFORM TRAFFIC CONTROL DEVICES".
3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONTRACTOR AS DEFINED IN ACT.
4. THE CONTRACTOR SHALL OBTAIN ALL RELEVANT PERMITS.
5. CONTRACTOR SHALL OBTAIN A ROAD OCCUPANCY PERMIT AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE MUNICIPALITY FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY.
6. FOR BUILDING LOCATION SITE LAYOUT AND BOUNDARY INFORMATION REFER TO LANDSCAPE PLAN L-001, DATED MAY 02, 2025.
7. EXACT LOCATION AND ELEVATION OF EXISTING SERVICES AND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY EXCAVATION. THE LOCATION OF ALL UNDER/ABOVE GROUND UTILITIES AND STRUCTURES IS APPROXIMATE ONLY, AND WHERE SHOWN ON THE DRAWING(S), THE ACCURACY OF THE LOCATION OF SUCH UTILITIES IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES BY CONSULTING THE APPROPRIATE AUTHORITIES OR UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE OR RESTORATION TO SAME.
8. CONTRACTOR TO CONFIRM INVERT ELEVATION OF EXISTING SERVICES PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO ENGINEER.

WATERMAINS NOTES

1. ALL MATERIALS AND CONSTRUCTION METHODS MUST CONFORM TO THE CURRENT TOWN STANDARDS AND SPECIFICATIONS.
2. ALL WATERMAIN AND/OR WATER SERVICE MATERIALS 100mm AND LARGER MUST BE DR-18 PVC PIPE CLASS 150. SIZE 50mm AND SMALLER MUST BE TYPE 'K' COPPER.
3. ALL WATERMAINS AND/OR WATER SERVICES TO HAVE MINIMUM 1.7m COVER WITH A MINIMUM HORIZONTAL SEPARATION OF 1.2M FROM THEMSELVES AND ALL OTHER UTILITIES.
4. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED WITH AT LEAST A 50mm OUTLET ON 100mm AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. THEY MUST 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 100mm DIA. MIN. ON A HYDRANT.
5. ALL CURB STOPS TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
6. WATERMAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30m ABOVE AND 0.50m UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
7. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
8. WATERMAIN PIPE SHALL BE PVC C900 (THICK WALL PIPE). PIPE IS TO BE WRAPPED WITH STRAND 14-GAUGE STRAND COPPER WIRE AND WIRE IS TO BE BROUGHT TO GRADE AT ALL MAINLINE VALVES AND HYDRANT SECONDARY VALVES, AND A HOLE DRILLED SIX INCHES (6"/150mm) DOWN FROM UPPER SECTION AND WIRE INSERTED THROUGH THIS HOLE FOR PROTECTION.
9. ALL SPLICES ARE TO BE DONE ABOVE GRADE OR USING A MOISTURE-PROOF SEAL.
10. HYDRANTS AND VALVES SHALL BE PER OPSD 1105.010. ALL HYDRANTS ARE TO BE SELF-DRAINING (UNLESS IN AREAS WITH HIGH WATER TABLE). ALL HYDRANTS ARE TO BE EQUIPPED WITH ONE (1) FOUR-INCH (4") PUMPER PORT WITH MANUFACTURER'S "STORTZ" FITTING. TOWN APPROVED HYDRANTS ARE CANADA VALVE (CANVAL) ONLY.
11. ALL SERVICE CONNECTION STUBS SHALL BE MARKED WITH 50 mm x 100 mm x 2.4 m STAKES, PAINTED BLUE FOR WATER.
12. ALL CURB STOPS, MAIN STOPS AND COUPLINGS ARE TO BE COMPRESSION-TYPE FITTINGS, i.e. CAMBRIDGE SUCCESSOR BALL VALVE TYPE, WHICH MUST BE APPROVED BY THE TOWN C/W STAINLESS STEEL RODS AND BRASS PIN.
13. ALL BENDS AND TEES SHALL BE OPSD 1103.010 AND 1103.020 AND BLOCKED TO UNDISTURBED GROUND.
14. WHERE THE TOWN APPROVES WATERMAIN CONSTRUCTION WITH LESS THAN THE ABOVE NOTED MINIMUM COVER, THE WATERMAIN SHALL BE INSULATED TO THE TOWN'S SATISFACTION.
15. ALL MECHANICAL CONNECTIONS SHALL BE PROTECTED AGAINST CORROSION THROUGH THE USE OF CORROSION PROTECTION DURATION NUTS. NUTS SHALL BE USED ON 50% OF ALL T-BOLTS PER CONNECTION AND ARE TO BE USED IN ADDITION TO STANDARD FASTENING NUTS, NOT IN PLACE OF STANDARD NUTS.
16. WATERMAIN TESTING IS REQUIRED PRIOR TO CONNECTION. REFER TO THE TOWN WATER TESTING & SAMPLING DETAIL STANDARD ON DWG. C-401.

ROADS, DRIVEWAYS AND PARKING AREAS

1. CURBS WITHIN THE SITE TO BE 150mm HIGH BARRIER TYPE AS PER OPSD 600.110, UNLESS OTHERWISE SPECIFIED.
2. ALL DRIVEWAYS SHALL BE SET BACK A MINIMUM OF 1.2 METRES FROM ABOVE GROUND SERVICES OR OTHER OBSTRUCTIONS.
3. AT ALL ENTRANCES TO THE SITE, THE MUNICIPAL CURB AND SIDEWALK WILL BE CONTINUOUS THROUGH THE DRIVEWAY. THE DRIVEWAY GRADE WILL BE COMPATIBLE WITH THE EXISTING SIDEWALK AND DEPRESSED CURB WILL BE PROVIDED FOR EACH ENTRANCE. ACCESS CONSTRUCTION AS PER APPLICABLE CITY STANDARDS.
4. CONCRETE SIDEWALK TO BE AS PER OPSD 310.010 AND 310.020 WHERE ADJACENT TO A CURB. CONCRETE SIDEWALKS TO BE 1.5m UNLESS SPECIFIED OTHERWISE ON THE ARCHITECTURAL SITE PLAN.

SANITARY SEWERS

1. ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO A.S.T.M. SPECIFICATIONS D-3034-77C WITH "LOCK-IN" RUBBER SEALING RING.
2. ALL HOUSE SERVICES SHALL BE CONNECTED TO SEWER WITH TEES. PIPE: 125mm PVC, c/w 125 X 100 PVC WATERTIGHT CLEANOUT AT PROPERTY LINE.
3. SERVICES SHALL BE EXTENDED 1.5 m INSIDE THE PROPERTY LINE AND PLUGGED.
4. PIPE TO BE GREEN IN COLOUR. ALL SERVICES TO BE MARKED WITH 50 mm x 100 mm x 2.4 m STAKES, PAINTED GREEN FOR SANITARY.
5. ALL SEWER CONNECTIONS TO MANHOLES SHALL BE CONSTRUCTED BY MEANS OF A PVC MANHOLE ADAPTER.
6. THE BEDDING MATERIAL SHALL EXTEND TO 300 mm ABOVE THE PIPE AND COMPACTION TESTS ARE REQUIRED BEFORE THE TRENCH IS BACKFILLED. BACKFILL SHALL BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY.
7. MANHOLES SHALL BE TO STANDARD DRAWINGS OPSD 701.01 TO 701.080 (INCLUSIVE).
8. ALL SANITARY MANHOLES SHALL BE BENCHED THROUGHOUT TO THE SPRING LINE, AS PER STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED.
9. ALL SANITARY MANHOLES SHALL HAVE MONOLITHIC PRE-BENCHED BASES WITH PRE-MANUFACTURED CONNECTIONS.
10. 6.2ALL SANITARY MANHOLES CONSTRUCTED IN THE VICINITY OF LOW POINTS OR OUTSIDE OF THE PAVED ROADWAY SHALL HAVE WATERTIGHT COVERS. ALL MANHOLES LOCATED IN CUL-DE-SACS SHALL HAVE WATERTIGHT COVERS.
11. SANITARY SEWER BEDDING SHALL BE TO STANDARD DRAWING OPSD 802.03, CLASS "B" (UNLESS OTHERWISE NOTED AND APPROVED).
12. ALL LATERALS SHALL BE CONSTRUCTED ACCORDING TO STANDARD DRAWINGS OPSD 1006.010.

STORM SEWERS

1. MAINTENANCE HOLES (MHs) TO BE PRECAST AS PER OPSD 701.010 AND BENCHED IN ACCORDANCE WITH TOWN STANDARDS.
2. STORM SEWERS UP TO AND INCLUDING 600mm DIAMETER SHALL BE HDPE WITH BEDDING AS PER OPSD 802.010, UNLESS OTHERWISE NOTED. CONCRETE PIPE LARGER THAN 600mm DIAMETER TO BE CLASS 100-D WITH CLASS 'B' BEDDING AS PER OPSD 802.030. ALL SEWER PIPE SHALL HAVE RUBBER GASKET JOINTS.
3. SINGLE CATCHBASIN SHALL BE AS PER OPSD 705.010. CATCHBASIN LEADS TO BE 250mm DIAMETER, AT 2% UNLESS OTHERWISE NOTED.
4. DOUBLE CATCHBASINS SHALL BE AS PER OPSD 705.020. LEADS TO BE 300mm DIAMETER AT 2% UNLESS OTHERWISE NOTED.
5. TRENCH BACKFILL TO BE COMPACTED TO MINIMUM 98% SPMDD IN THE LAST 0.6m TO THE SUBGRADE AND BELOW TO 95% SPMDD. TRENCHES WITHIN THE PAVED AREA OF EXISTING PUBLIC ROADS SHALL BE VERTICAL TRENCHES AND BE BACKFILLED WITH NON-SHRINKABLE MATERIALS.
6. CULVERTS TO BE CORRUGATED STEEL PIPE HAVING MINIMUM DIAMETER OF 300mm AND MINIMUM 1.6mm THICKNESS. CULVERTS TO BE INSTALLED WITH MANUFACTURED END SECTIONS
7. ALL CONCRETE PIPE SHALL HAVE SEALED JOINTS WITH GASKETS AND PIPE CLASS AS SHOWN ON DRAWINGS.
8. ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO ASTM SPEC. D-3034-C SDR-35 WITH "LOCK-IN" RUBBER SEALING RING.
9. MANHOLES SHALL BE AS PER STANDARD DRAWINGS OPDS 701.01 TO 701.08 (INCLUSIVE).
10. ALL STORM MANHOLES BE BENCHED THROUGHOUT TO THE CROWN OF ALL PIPES ON A VERTICAL PROJECTION FROM SPRING LINE, AS PER STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED.
11. SEWER BEDDING SHALL BE TO STANDARD DRAWING OPSD 802.030 CLASS "B" BEDDING OR AS APPROVED BY THE TOWN.
12. ALL CATCHBASINS SHALL BE CONNECTED TO THE STORM SEWER BY TEES WHERE POSSIBLE, STANDARD DRAWINGS OPSD 705.010 AND 705.020.
13. ALL STORM OUTFALLS THAT EMPTY INTO A DITCH OR WATERCOURSE MUST BLEND WITH THE FLOW OF SAME.
14. ALL PVC JOINTS AT MANHOLES SHALL BE CONSTRUCTED BY MEANS OF A PVC MANHOLE ADAPTER.

TOWN OF EAST GWILLIMBURY GENERAL NOTES

1. ALL SERVICES ARE TO BE TO THE TOWN OF EAST GWILLIMBURY ENGINEERING DEPARTMENT STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE TOWN.
2. LOCATIONS OF EXISTING SERVICES IS NOT GUARANTEED. THE CONTRACTOR IS TO NOTIFY UTILITY COMPANIES FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
3. FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE STANDARD DRAWINGS.
4. ALL WORKS MUST BE CARRIED OUT ACCORDING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT (UPDATED 2011), REGULATIONS FOR CONSTRUCTION PROJECTS AND ALL RELATED ONTARIO REGULATIONS APPLICABLE TO CONSTRUCTION ACTIVITY.
5. SEWER AND WATERMAIN TRENCHES SHALL BE BACKFILLED TO TOWN OF EAST GWILLIMBURY STANDARDS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
6. ALL STANDARD DRAWINGS SHALL BE PER O.P.S.D. (MOST RECENT REVISION) UNLESS OTHERWISE SPECIFIED.
7. ALL DIMENSIONS SHALL BE IN METRES EXCEPT PIPE DIAMETER, WHICH IS IN MILLIMETRES, UNLESS OTHERWISE SPECIFIED.
8. ROAD SUBGRADE TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY. GRANULAR MATERIALS ARE TO BE SPREAD AND COMPACTED IN 200 mm LAYERS TO A MINIMUM OF 100% STANDARD PROCTOR DENSITY. ASPHALT IS TO BE COMPACTED TO MINIMUM 96% STANDARD PROCTOR DENSITY.
9. PAVEMENT DESIGN: REFER TO THE GEOTECHNICAL REPORT RECOMMENDATIONS.
10. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REINSTATED TO ORIGINAL OR BETTER CONDITION.
11. SUB-DRAINS ARE TO BE INSTALLED THROUGHOUT UNLESS OTHERWISE APPROVED.
12. NO MANHOLE COVERS WILL BE PERMITTED TO BE CONSTRUCTED IN ANY PART OF THE SIDEWALK.

SUPPLEMENTARY CONSTRUCTION NOTES

1. SERVICE CONNECTIONS AND UTILITY CUTS MADE IN ROAD PAVEMENTS SHALL BE BACKFILLED WITH UNSHRINKABLE FILL. TO BE REVIEWED WITH THE TOWN FOR ACCEPTANCE.
2. ALL AREAS DISTURBED DURING CONSTRUCTION WITHIN THE MUNICIPAL RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR. GRASS AREAS SHALL BE TREATED WITH 150 mm OF TOPSOIL AND SHALL BE SODDED ACCORDING TO OPSS 803.
3. ALL EXISTING UTILITIES SHOWN ON DRAWINGS ARE FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL SATISFY THEMSELVES AS TO THE ACTUAL LOCATION AND DEPTH OF ANY UTILITY AND SHALL BE LIABLE FOR ALL OR ANY DAMAGE.
4. ANY DISCREPANCIES BETWEEN SITE CONDITIONS AND CONSTRUCTION DRAWINGS MUST BE REPORTED TO THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION AND APPROPRIATE ACTION TAKEN TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
5. ALL SURVEY STAKE LAYOUT POINTS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE LAYOUT SHALL BE IMMEDIATELY REPORTED TO THE CITY.
6. AT ALL LOCATIONS WHERE THE PROPOSED WATERMAIN CROSSES UNDER OR ABOVE THE EXISTING SEWERS, OR UTILITIES, GRANULAR A BEDDING MATERIAL IS TO EXTEND FROM THE LOWER PIPE TO THE TOP OF THE UPPER PIPE. GRANULAR A TO BE COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
7. CONTRACTOR TO PROVIDE ADEQUATE SUPPORT DURING CONSTRUCTION BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS. MAINTAIN 300 mm MINIMUM VERTICAL CLEARANCES BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS LESS THAN 300 mm IN DIAMETER. MAINTAIN 600 mm MINIMUM VERTICAL CLEARANCE BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS EQUAL TO OR GREATER THAN 300 mm IN DIAMETER.
11. ALL TRENCHING SHALL BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. TRENCH SIDES SHALL BE FLATTENED IN ACCORDANCE WITH DIRECTIONS FROM THE GEOTECHNICAL ENGINEER. CONSTRUCTION OF SHORING, BRACING AND PROTECTION SCHEMES SHALL CONFORM TO OPSS 404 & 539.
12. ALL EXISTING WATERMAINS AND SEWER PIPES LARGER THAN 300 mm DIAMETER SHALL BE SUPPORTED IN ACCORDANCE WITH MUNICIPAL STANDARDS.
13. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE ACCORDING TO ONTARIO TRAFFIC MANUAL THE CURRENT BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.
14. A ROAD OCCUPATION PERMIT FROM THE CITY OF TORONTO IS REQUIRED FOR ANY WORK WITHIN THE GARFIELD WRIGHT BOULEVARD ROAD RIGHT-OF-WAY. THIS PERMIT MUST BE OBTAINED PRIOR TO COMMENCING ANY DEMOLITION, RENOVATION, OR CONSTRUCTION ACTIVITIES THAT TEMPORARILY OCCUPY THE BOULEVARD, SIDEWALK, ROADWAY, OR PUBLIC LANE.

GRADING

1. ALL GRASSED AND PAVED SURFACES SHALL BE GRADED IN ACCORDANCE WITH THE TOWN'S DESIGN CRITERIA. THE MINIMUM AND MAXIMUM GRADIENTS FOR GRASSED AREAS SHALL BE 2.0% AND 5.0%, RESPECTIVELY, UNLESS OTHERWISE NOTED. THE SLOPING OF GRASSED AREAS SHALL NOT EXCEED 3:1 (HORIZ.:VERT.) WITH A MAXIMUM VERTICAL ELEVATION NOT IN EXCESS OF THE APPLICABLE TOWN STANDARD. THE MINIMUM AND MAXIMUM GRADIENTS FOR PAVED AREAS SHALL BE 1.0% AND 5.0%, RESPECTIVELY, UNLESS OTHERWISE NOTED.
2. ALL EXTERNAL SITE AREAS DISTURBED BY THE ACTIVITIES OF THE CONTRACTOR SHALL BE RESTORED TO EXISTING CONDITION OR BETTER. GRASSED AREAS SHALL BE RESTORED BY PLACING 150mm OF TOPSOIL AND ACTIVELY GROWING NO. 1 NURSERY SOD. ALL BOULEVARDS TO BE SODDED.
3. PROPOSED ELEVATION ALONG SITE PROPERTY LINES MUST MATCH EXISTING ELEVATION UNLESS INDICATED OTHERWISE ON THE SITE GRADING PLAN.
4. ALL ENGINEERED FILL AND BACKFILLING OPERATIONS TO BE INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER.

FOR DETAILED SPECIFICATIONS FOR THE FOLLOWING:

- SITE STRIPPING
- SITE GRADING
- FILL PLACEMENT
- ENGINEERED FILL
- COMPACTION REQUIREMENTS
- SEWER BEDDING
- TRENCH BACKFILLING
- PAVEMENT MAKE-UP

REFER TO THE GEOTECHNICAL INVESTIGATION PROPOSED HELICOPTER HANGER 350 GARFIELD WRIGHT BOULEVARD EAST GWILLIMBURY, ONTARIO REPORT, PREPARED BY PATRIOT ENGINEERING LTD., DATED AUGUST 30TH, 2024

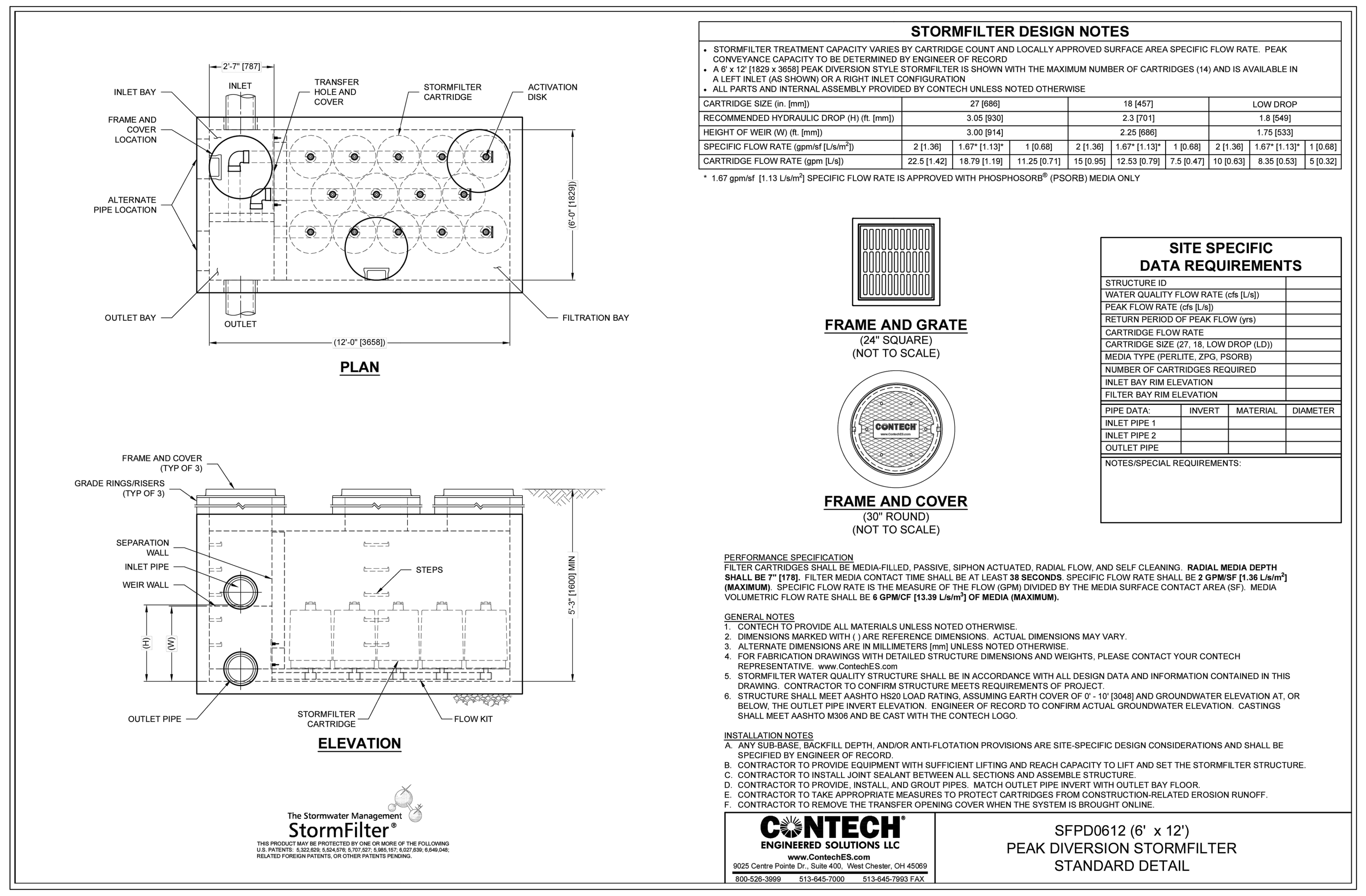
PAVING NOTES

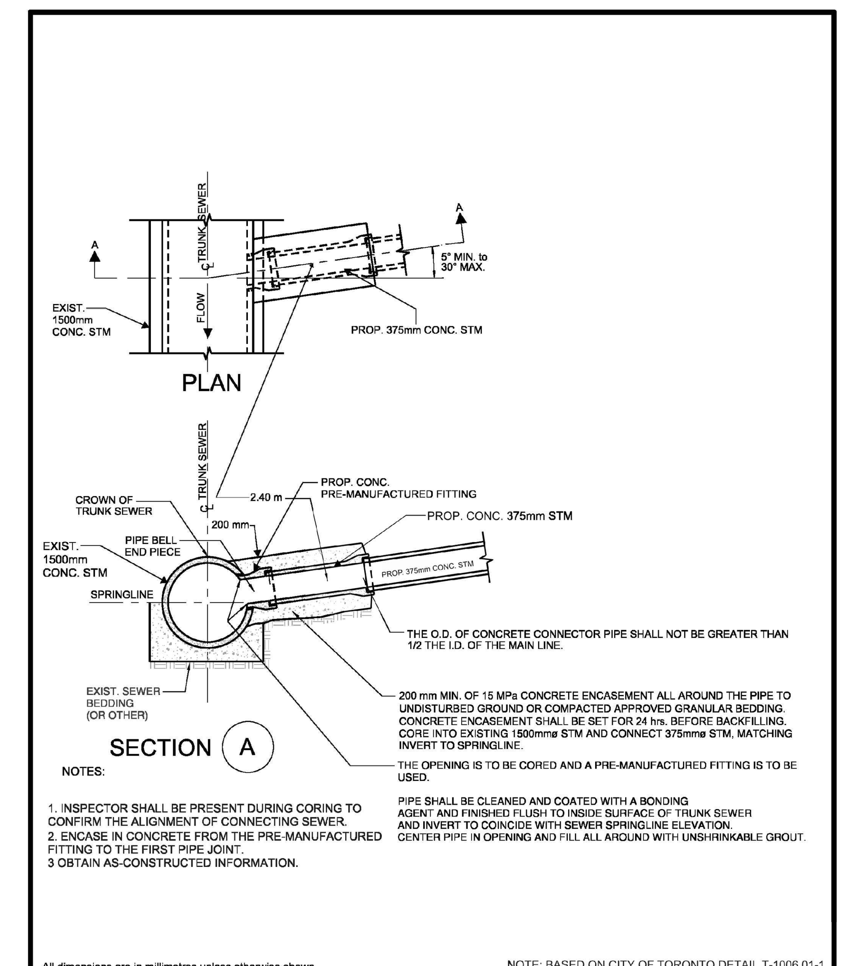
1. INSPECTION OF SUB-GRADE IS REQUIRED BY THE GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF PAVEMENT STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF INSPECTIONS WITH THE GEOTECHNICAL CONSULTANT.

LIGHT DUTY AND HEAVY DUTY PAVEMENT TO BE CONSTRUCTED AS PER GEOTECHNICAL REPORT PREPARED BY PATRIOT ENGINEERING LTD., DATED AUGUST 30TH, 2024

MATERIAL	LIGHT DUTY	HEAVY DUTY
HL 3 SURFACE ASPHALT	40mm	40mm
HL 8 BINDER ASPHALT	40mm	100mm
GRANULAR BASECOURSE OPSS GRANULAR 'A' CONSISTING OF 20mm CRUSHER RUN LIMESTONE	150mm	150mm
GRANULAR SUBBASE OPSS GRANULAR 'B' TYPE II 50mm CRUSHER RUN LIMESTONE	300mm	500mm
TOTAL COMBINED THICKNESS	530mm	790mm
GRANULAR BASE EQUIVALENTS (GBE)	510mm	770mm

2. ALL PAVEMENT MARKING, LINE PAINTING, DIRECTIONAL LINES/ARROWS ETC. SHALL BE PLACED IN ACCORDANCE WITH THE ARCHITECTURAL SITE PLAN A-002 (OVERALL SITE PLAN), DATED JUNE 26, 2025.

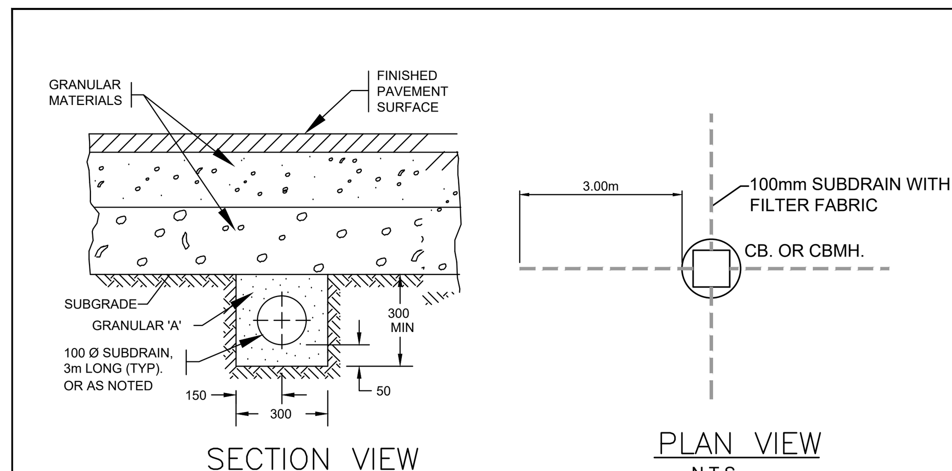




SITE STORM SERVICE CONNECTION
CONNECTION DETAIL

counterpoint ENGINEERING

SCALE N.T.S.



NOTES:

1. ALL SUBDRAIN CONNECTIONS TO BE MADE ON BOTH SIDES OF THE CATCHBASIN AND TO BE MORTARED AT THE INSIDE AND OUTSIDE OF THE CATCHBASIN WALLS. THE SUBDRAIN SHALL BE PLUGGED WITH A MANUFACTURED PLUG AT THE HIGH POINT WHERE THERE IS NO CATCHBASIN.
2. PIPE SHALL BE 100 mm Ø POLYETHYLENE OR C.M.P. (HELCOR OR EQUAL) WRAPPED IN FILTER FABRIC.
3. FILTER FABRIC SHALL BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD SPECIFICATIONS.
4. ALL DIMENSIONS IN MILLIMETERS

CATCH BASIN/MANHOLE SUBDRAIN
(UNDER PAVEMENT)

counterpoint ENGINEERING

SCALE N.T.S.

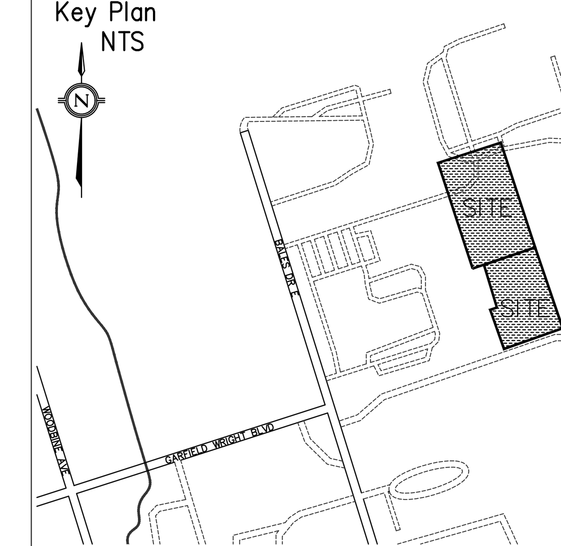
PARKIN
Parkin Architects Limited
1 VALLEYBROOK DRIVE, TORONTO, CANADA, M3B 2S7
416-467-8000

counterpoint ENGINEERING
A SUBSIDIARY OF DILLON CONSULTING LIMITED
8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

YRP HELICOPTER HANGAR

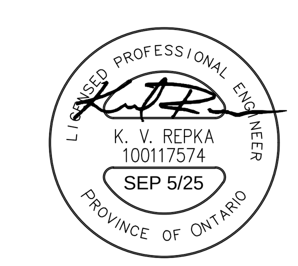
88 BALES DRIVE EAST
TOWN OF EAST GWILLIMBURY

Key Plan
NTS



NO.	ISSUED	DATE
7.	ISSUED FOR CONSTRUCTION	25-09-04
6.	RE-ISSUED FOR 4TH SPA SUBMISSION	25-08-01
5.	RE-ISSUED FOR 3RD SPA SUBMISSION	25-07-09
4.	RE-ISSUED FOR BUILDING PERMIT	25-05-09
3.	ISSUED FOR 2ND SPA SUBMISSION	25-04-25
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31

Issues



Stamp:

Checked by:	Drawn by:	Project No:	Date:
PM	PM	24015	24-07-31

Sheet Title:

NOTES AND DETAILS

Applicant:

YORK REGIONAL POLICE
47 DON HILOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:

Drawing No:

C-402

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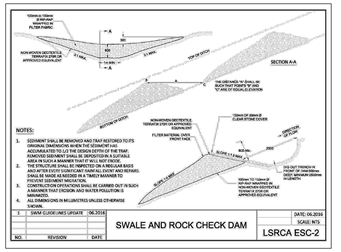
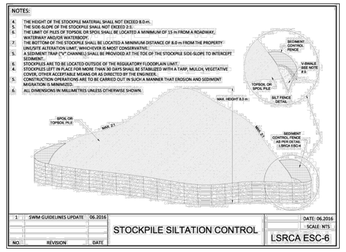
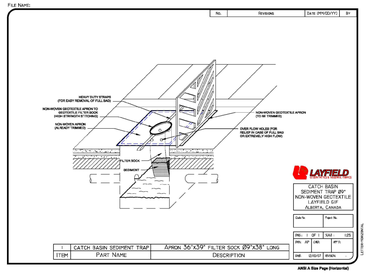
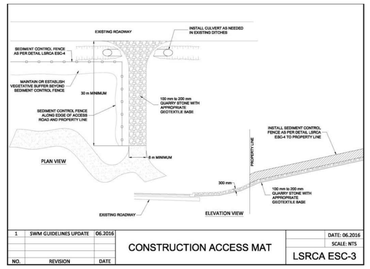
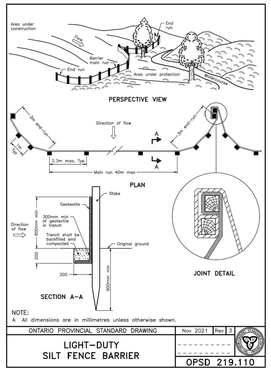
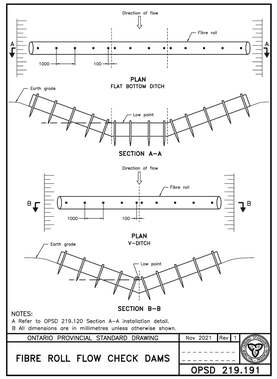


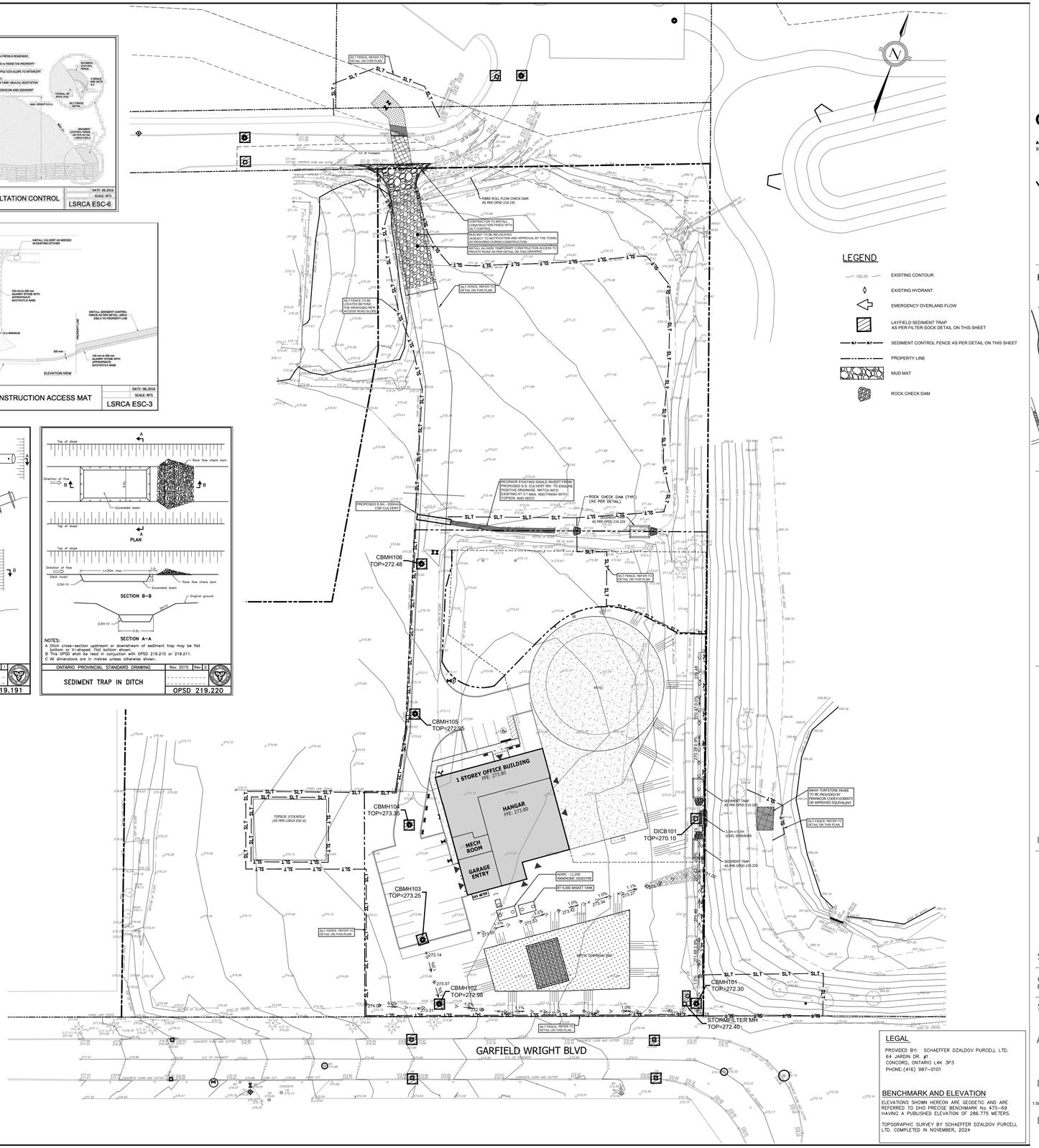












EROSION AND SEDIMENT CONTROL MEASURE NOTES

1. ESC SEQUENCING:

a. INSTALL CATCHBASIN SEDIMENT TRAP, CONSTRUCTION ACCESS MAT, SILT FENCE, ROCK CHECK DAMS, SEDIMENT TRAPS AND FIBRE ROLL CHECK FLOW DAMS.
b. STRIP AND PILE TOPSOIL AND COMPLETE EARTHWORKS.
c. INSTALL TURFSTONE AT THE POND MAINTENANCE ROAD.
d. SERVICING INSTALLATION AND SITE GRADING INCLUDING FLOW SPREADER AND STORM SEWER SERVICE CONNECTION.
e. SITE TO BE STABILIZED TO THE SATISFACTION OF THE MUNICIPALITY.
f. DECOMMISSION BY REMOVING SILT FENCE, CATCHBASIN SEDIMENT TRAP, BACKFILL AND SOD THE SEDIMENT TRAPS, REMOVE ROCK CHECK DAMS.

2. ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED.

3. IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.

4. THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.

5. ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON-SITE.

6. ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH TOWN OF EAST GWILLIMBURY NOISE BY-LAW.

7. SEDIMENT CONTROL FENCE TO BE AS PER OPSD 219.110.

8. ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT SITE FROM CONSTRUCTION ACCESS.

9. ALL TOPSOIL OR MATERIAL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.

10. FILTER CLOTH WILL BE PLACED ON THE CATCHBASINS ACROSS THE PROPERTY'S FRONTAGE.

11. FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS ARE SODDED OR LANDSCAPED AREAS ARE SODDED. FILTER FABRIC FOR SILT CONTROL TO BE TERRAFIX 270R OR APPROVED EQUIVALENT.

12. STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.

13. ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.

14. THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING THE MUNICIPAL ROADWAY CLEAN AND WILL WASH AND SWEEP THE ROADWAY AS REQUIRED.

15. MUD MATS TO BE RELOCATED/CONSTRUCTED TO THE ENTRANCES WHERE CONSTRUCTION VEHICLES ARE PERMITTED WITH PRIOR CONSULTATION AND APPROVAL BY THE MUNICIPALITY.

16. IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS THE CONSTRUCTION ACCESS, SILT FENCE, SECURITY FENCE, SEDIMENT CONTROL AND MUD MATS

17. STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE TOWN OF EAST GWILLIMBURY.

18. SEDIMENT BARRIERS AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.

19. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. TRUCK WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ON PUBLIC RIGHT OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.

20. ALL ESC MEASURES TO BE REMOVED AFTER THE SITE IS STABILIZED TO THE SATISFACTION OF THE MUNICIPALITY.

LEGAL

PROVIDED BY: SCHAEFFER DZALDOV PURCELL LTD.
64 JARDIN DR. #1
CONCORD, ONTARIO L4K 3P3
PHONE:(416) 987-0101

BENCHMARK AND ELEVATION

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO DHD PRECISE BENCHMARK No 475-69 HAVING A PUBLISHED ELEVATION OF 286.775 METERS.

TOPOGRAPHIC SURVEY BY SCHAEFFER DZALDOV PURCELL LTD. COMPLETED IN NOVEMBER, 2024

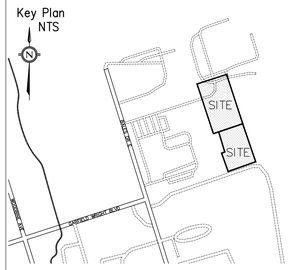
PARKIN
Parkin Architects Limited
1 VALLEYBROOK DRIVE, TORONTO, CANADA, M3B 2S7
416-467-8000

counterpoint ENGINEERING
A SUBSIDIARY OF DILLON CONSULTING LIMITED
8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

YRP HELICOPTER HANGAR

88 BALES DRIVE EAST
TOWN OF EAST GWILLIMBURY

Key Plan
NTS



THE SEPTIC SYSTEM IN ITS ENTIRETY HAS BEEN PROVIDED BY AZIMUTH CONSULTING LTD., DATED APRIL 30, 2025 AND IS SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES.

REFER TO ISSUED FOR CONSTRUCTION DRAWINGS PROVIDED BY AZIMUTH CONSULTING LTD. FOR CONSTRUCTION LAYOUT AND DETAILS

NO.	ISSUED	DATE
7.	ISSUED FOR CONSTRUCTION	25-09-04
6.	RE-ISSUED FOR 4TH SPA SUBMISSION	25-08-01
5.	RE-ISSUED FOR 3RD SPA SUBMISSION	25-07-09
4.	RE-ISSUED FOR BUILDING PERMIT	25-05-09
3.	ISSUED FOR 2ND SPA SUBMISSION	25-04-25
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31

Issues

LICENSED PROFESSIONAL ENGINEER
K. V. REPKA
100117574
SEP 5/25
PROVINCE OF ONTARIO

Stamp:

Checked by:	Drawn by:	Project No:	Date:
PM	PM	24015	24-07-31

Sheet Title:
SEDIMENT CONTROL PLAN

Applicant:
YORK REGIONAL POLICE
47 DON HILOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:
1:500 (10 0m 10 20 30)

Drawing No:
C-501

Z:\Shared\Projects\2024\24015_Parkin_YRP Helicopter Hangar\Design\Drawings\ESC\24015_Sediment Control Plan.dwg