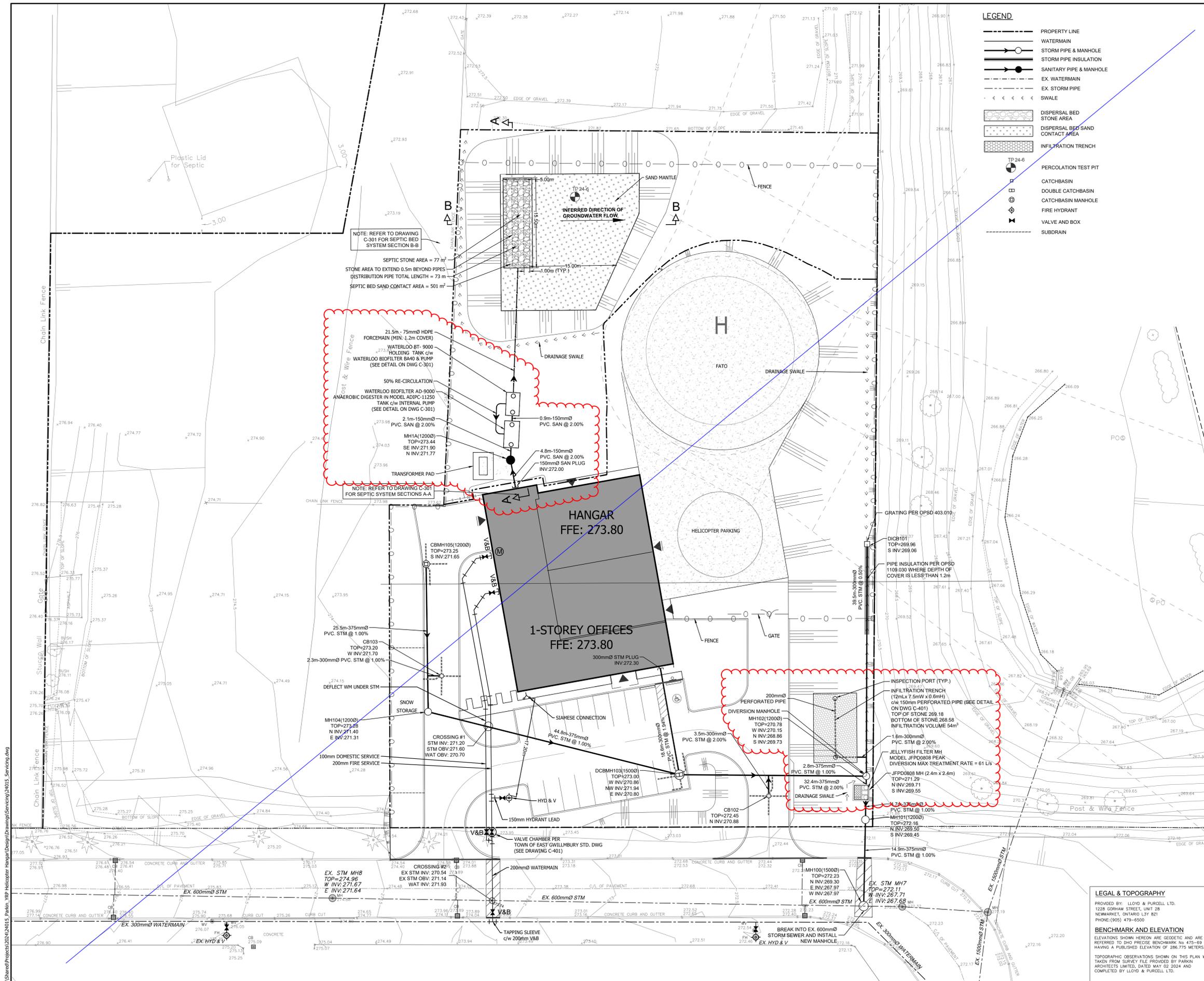
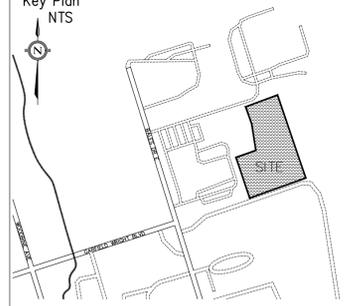


YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GWILLIMBURY

Key Plan
 NTS



LEGEND

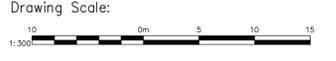
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- WATERMAIN
- STORM PIPE & MANHOLE
- STORM PIPE INSULATION
- SANITARY PIPE & MANHOLE
- EX. WATERMAIN
- EX. STORM PIPE
- SWALE
- DISPERSAL BED STONE AREA
- DISPERSAL BED SAND CONTACT AREA
- INFILTRATION TRENCH
- TP 24-6 PERCOLATION TEST PIT
- CATCHBASIN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

NO.	ISSUED FOR	DATE
5.	TENDER ADDENDUM #7	24-10-03
4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

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Sheet Title:
SITE SERVICING PLAN
 Applicant:
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 47 DON HILOK DRIVE
 AURORA ONTARIO L4G0S7



Drawing No:
C-101

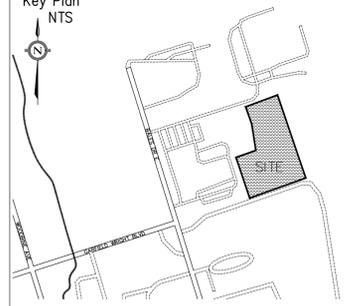
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350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GWILLIMBURY

Key Plan
 NTS



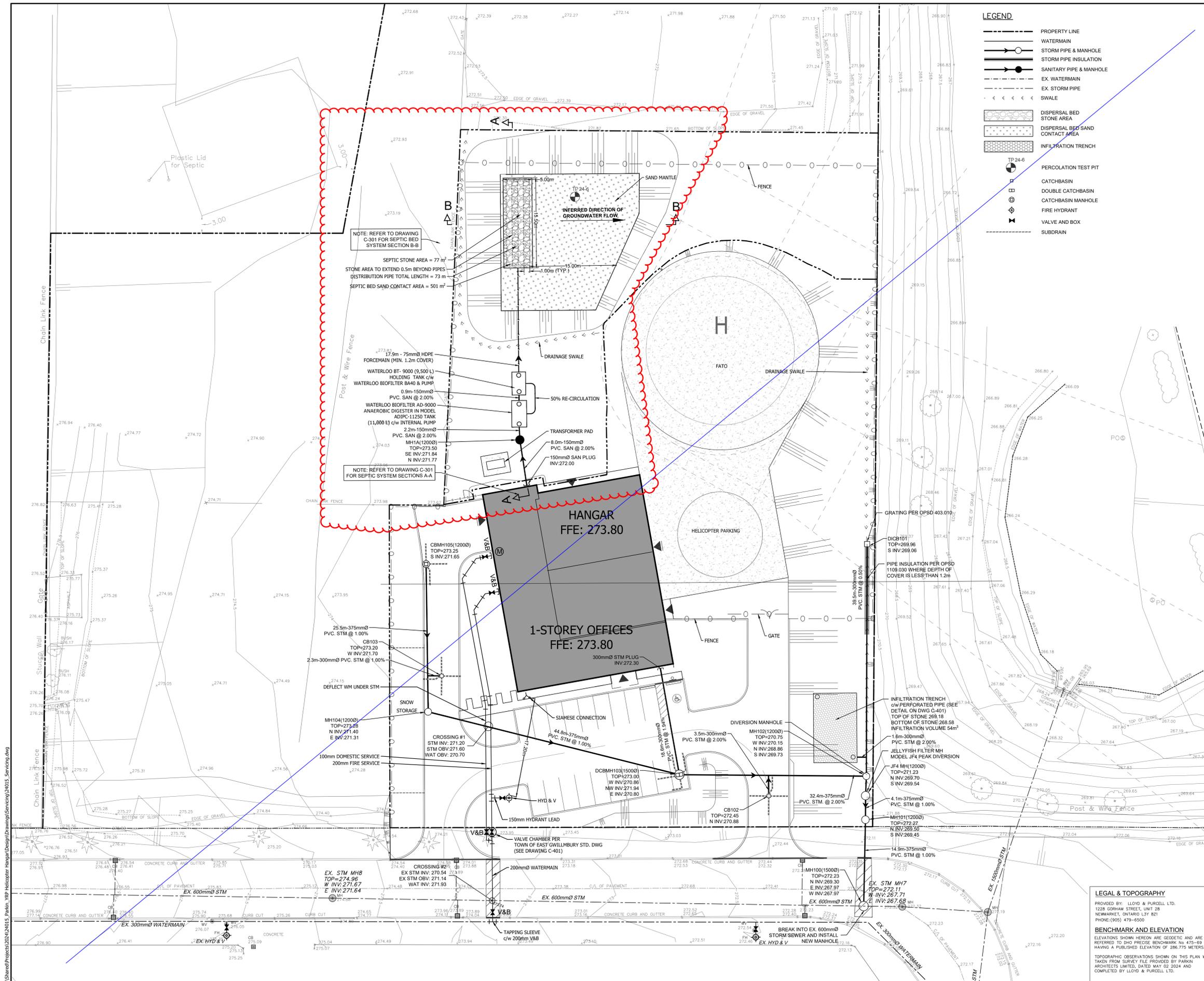
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1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

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 Applicant:
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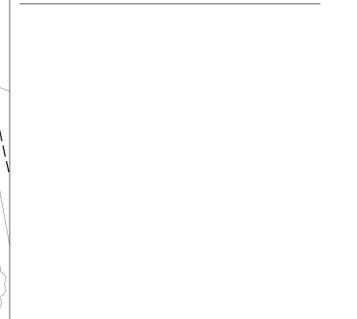
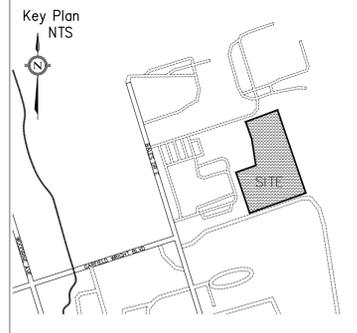
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Drawing No:
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350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GWILLIMBURY



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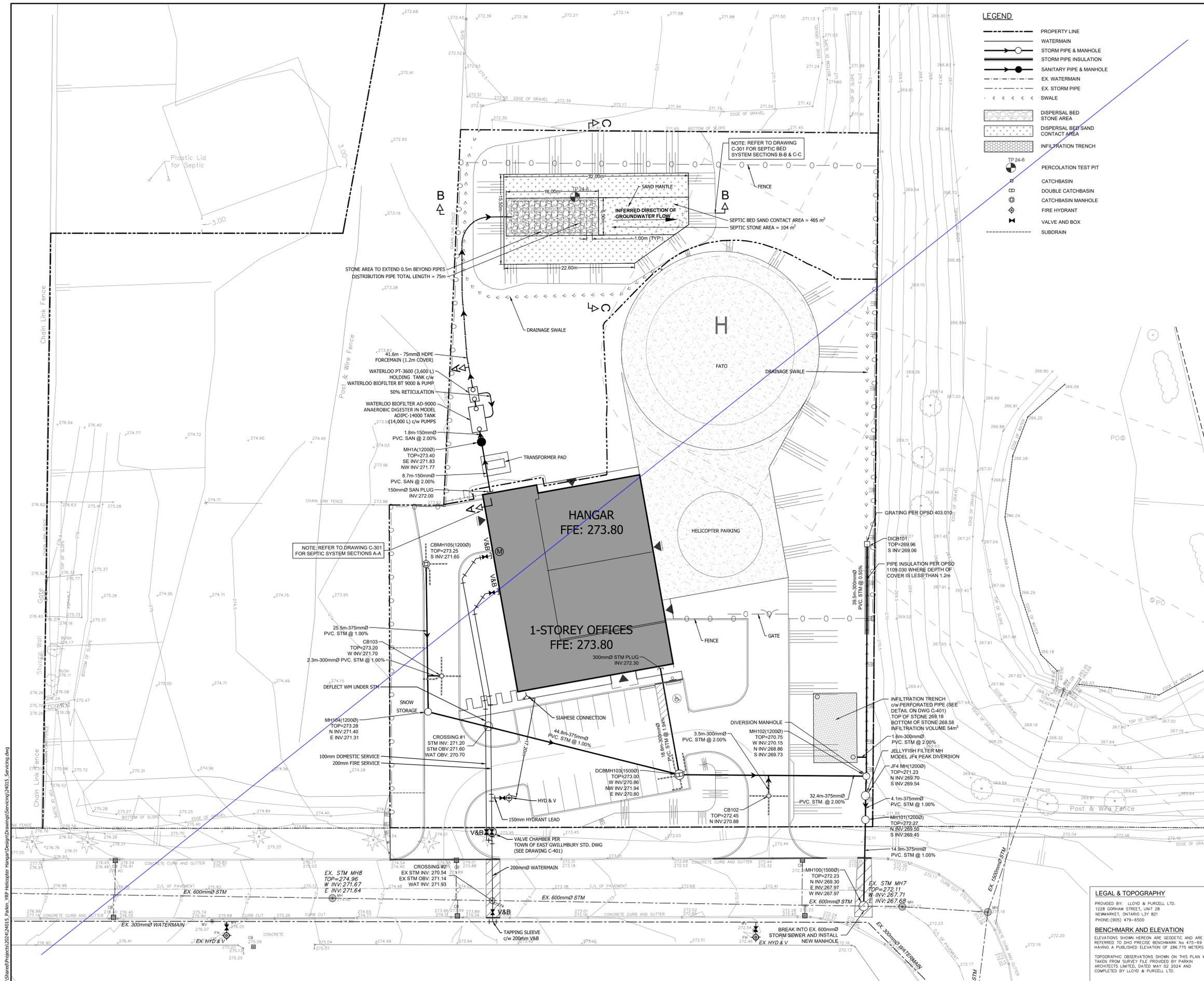
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2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
	ISSUED	DATE

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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

Drawing No:
C-101



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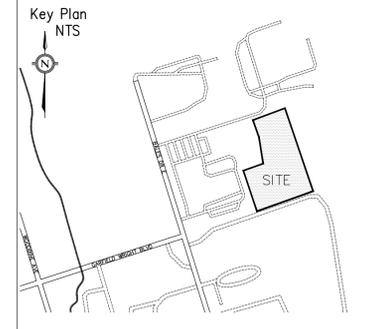
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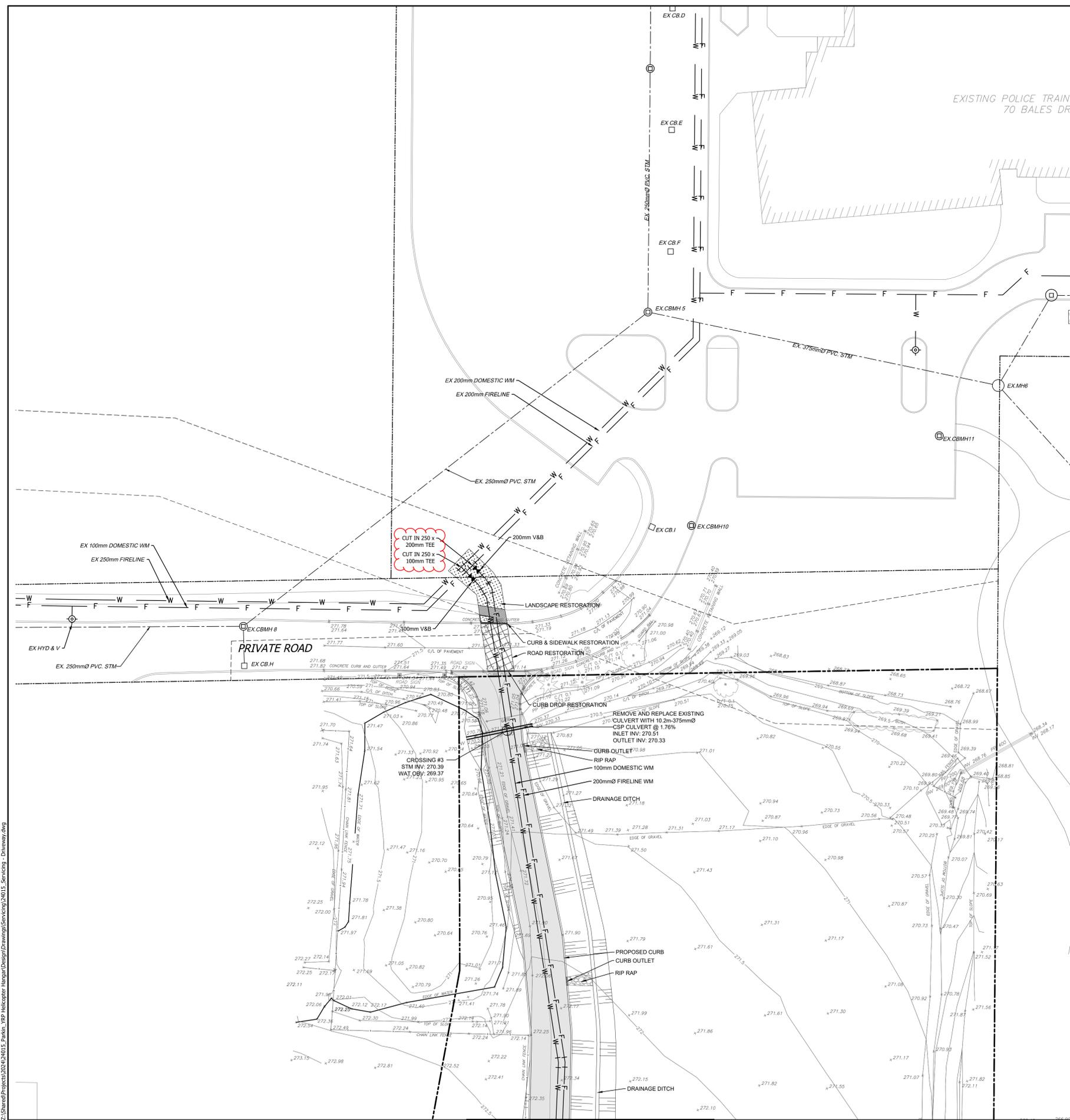
YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GUILMBURY



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



CUT IN 250 x 200mm TEE
 CUT IN 250 x 100mm TEE

CROSSING #3
 STM INV: 270.39
 WAT. CBY: 269.37

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NO.	ISSUED FOR PERMIT	DATE
8.	TENDER ADDENDUM #16	24-12-10
7.	TENDER ADDENDUM #15	24-12-04
6.	TENDER ADDENDUM #14	24-11-27
5.	TENDER ADDENDUM #7	24-10-03
4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
	ISSUED	

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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

Drawing No:
C-102

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MATCH LINE: REFER TO DRAWING C-101 FOR CONTINUATION

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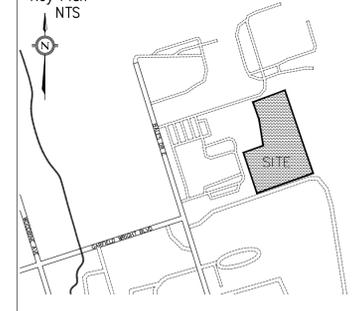
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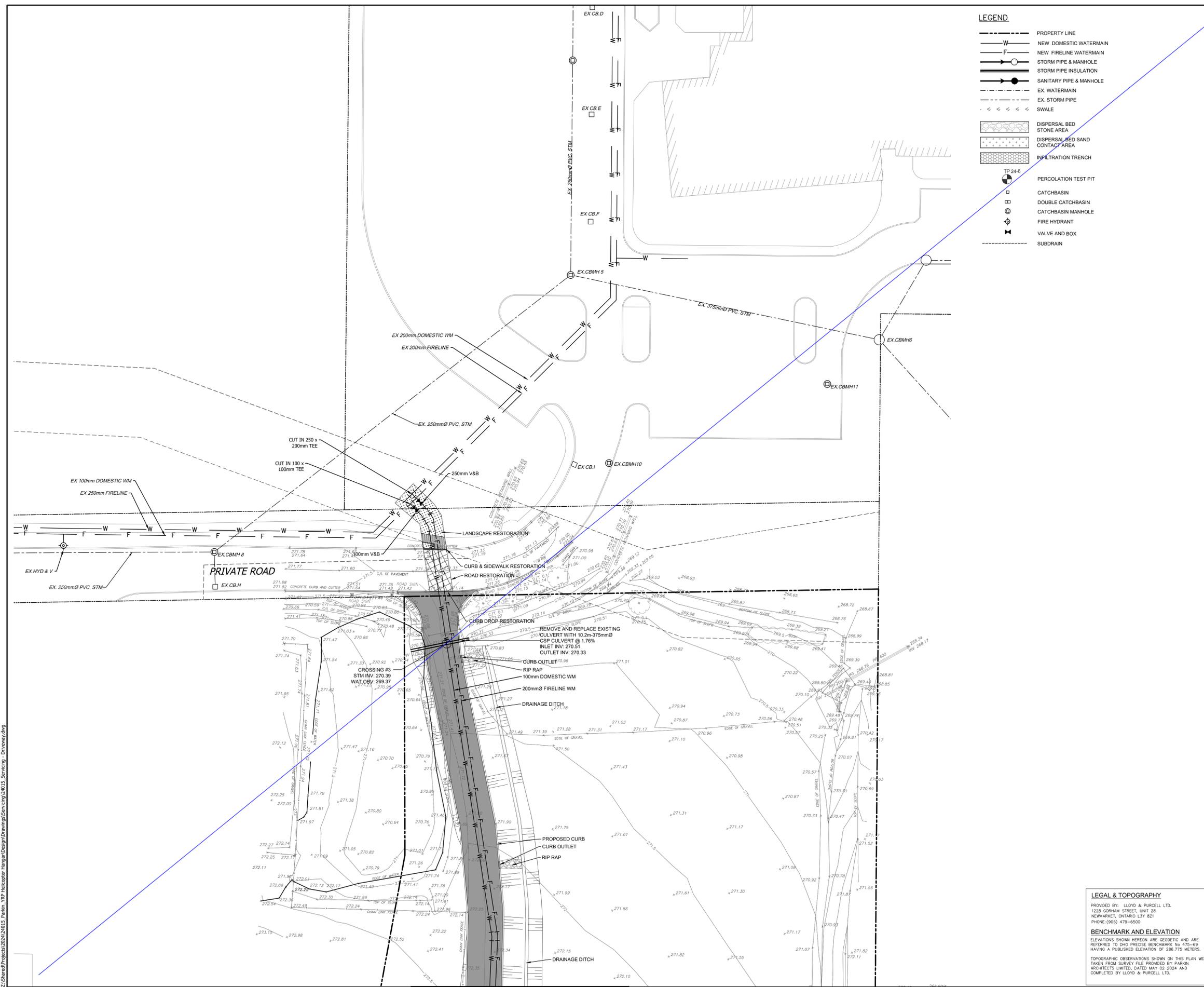
350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GUILMBURY

Key Plan
 NTS



LEGEND

- PROPERTY LINE
- W NEW DOMESTIC WATERMAIN
- F 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



NO.	ISSUED FOR PERMIT	DATE
6.	TENDER ADDENDUM #14	24-11-27
5.	TENDER ADDENDUM #7	24-10-03
4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
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1.	ISSUED FOR PERMIT	24-07-31
	ISSUED	

Issues

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 AURORA ONTARIO L4G0S7

Drawing Scale:
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Drawing No:
C-102

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MATCH LINE: REFER TO DRAWING C-101 FOR CONTINUATION

RECOMMENDED PAVEMENT STRUCTURES AND THICKNESS

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

MATCH LINE: REFER TO DRAWING C-202 FOR CONTINUATION

LEGEND

- XXX.XXEX EXISTING ELEVATION
- XXXX.XX EXISTING CONTOUR
- X 104.35 PROPOSED ELEVATION
- X 104.35 TC PROPOSED TOP/BOTTOM OF CURB ELEVATION
- X 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
- PROPOSED GRADE
- ← OVERLAND FLOW
- RETAINING WALL
- TP 24-6 PERCOLATION TEST PIT
- SWALE
- ▨ DISPERSAL BED STONE AREA
- ▨ DISPERSAL BED SAND CONTACT AREA
- ▨ INFILTRATION TRENCH
- ▨ HEAVY DUTY PAVEMENT

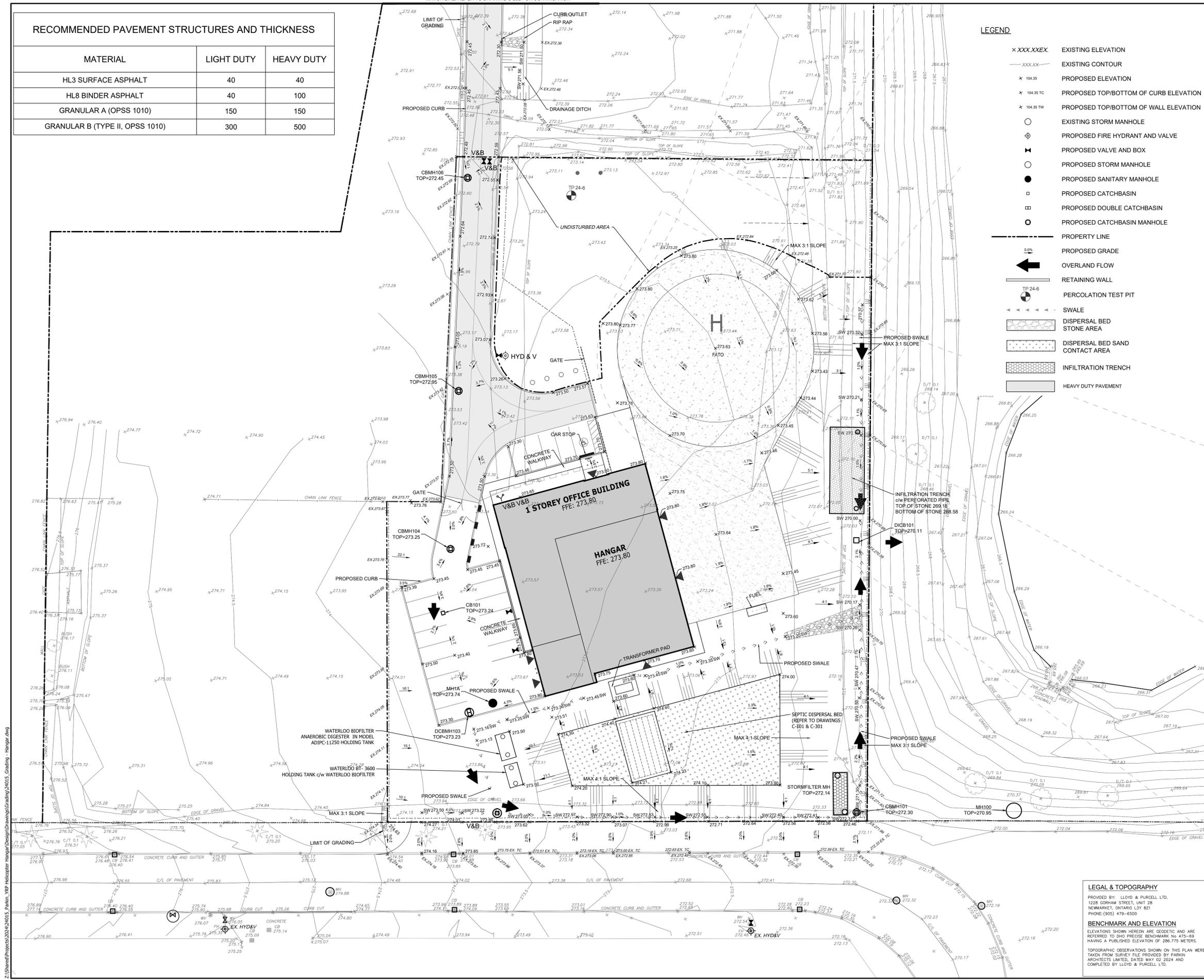
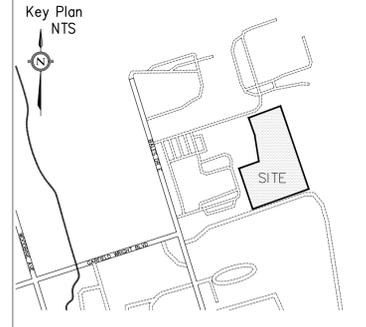
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416-467-8000



YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY



NO.	ISSUED	DATE
5.	TENDER ADDENDUM #7	24-10-03
4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

Issues

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Project No: 24015
Date: 24-07-31

Sheet Title:
SITE GRADING PLAN
Applicant:
YORK REGIONAL POLICE
47 DON HILOCK DRIVE
AURORA ONTARIO L4G6S7

Drawing Scale:
1:300

Drawing No:
C-201

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RECOMMENDED PAVEMENT STRUCTURES AND THICKNESS

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

LEGEND

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- 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
- PROPOSED GRADE
- ← OVERLAND FLOW
- — — — — RETAINING WALL
- TP-24-6 PERCOLATION TEST PIT
- — — — — SWALE
- ▨ DISPERSAL BED STONE AREA
- ▨ DISPERSAL BED SAND CONTACT AREA
- ▨ INFILTRATION TRENCH
- ▨ HEAVY DUTY PAVEMENT

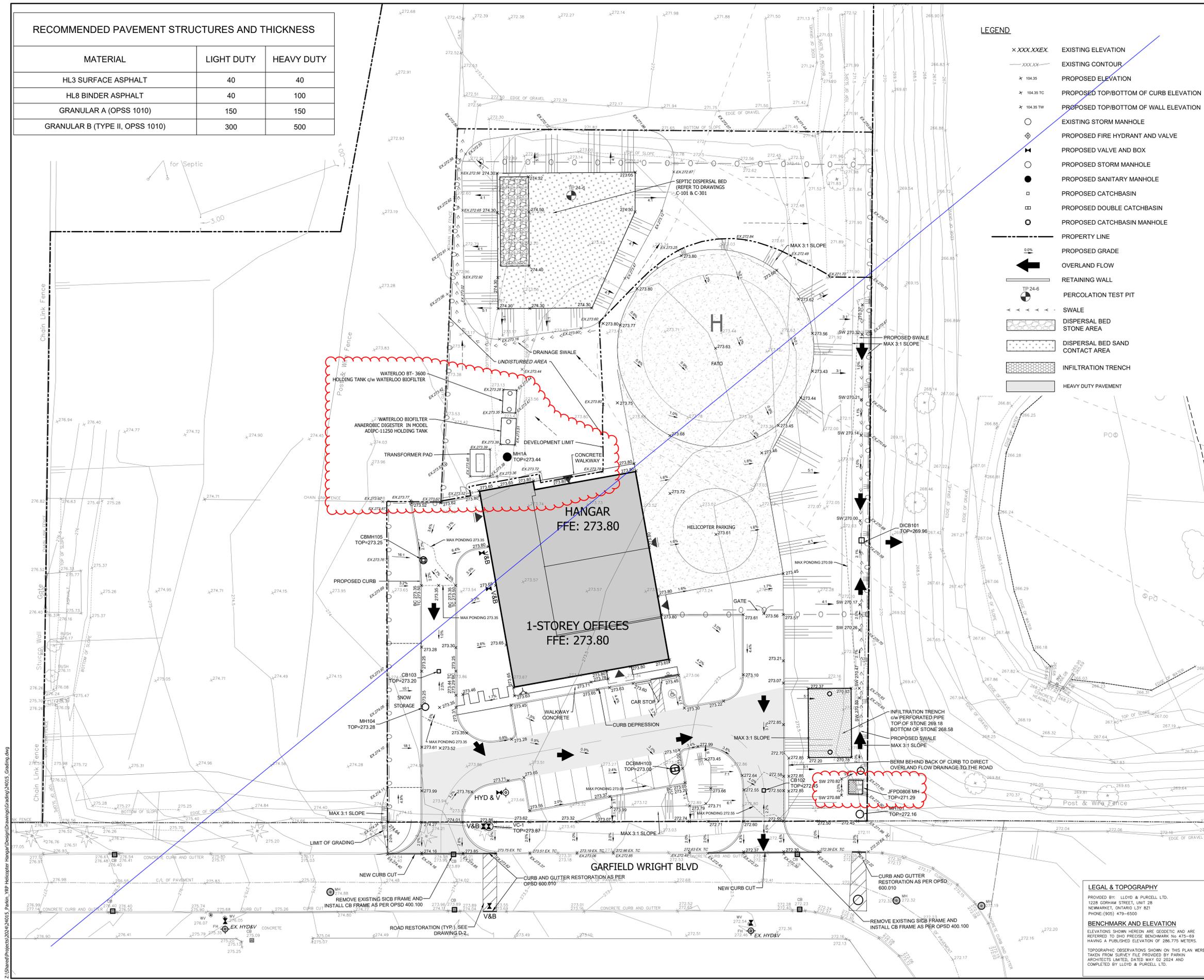
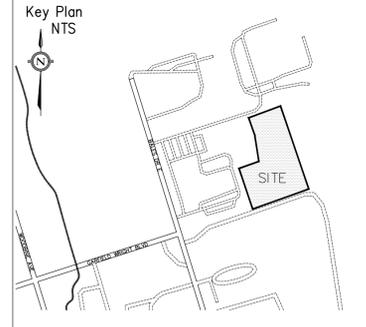
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350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GUILMBURY



NO.	ISSUED	DATE
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4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
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Sheet Title:
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 Applicant:
YORK REGIONAL POLICE
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 AURORA ONTARIO L4G6S7

Drawing Scale:

 Drawing No:
C-201

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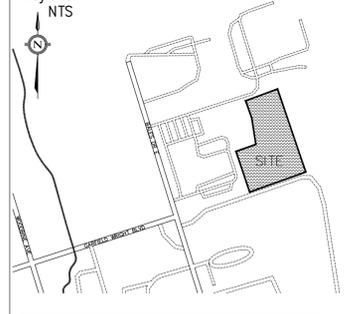
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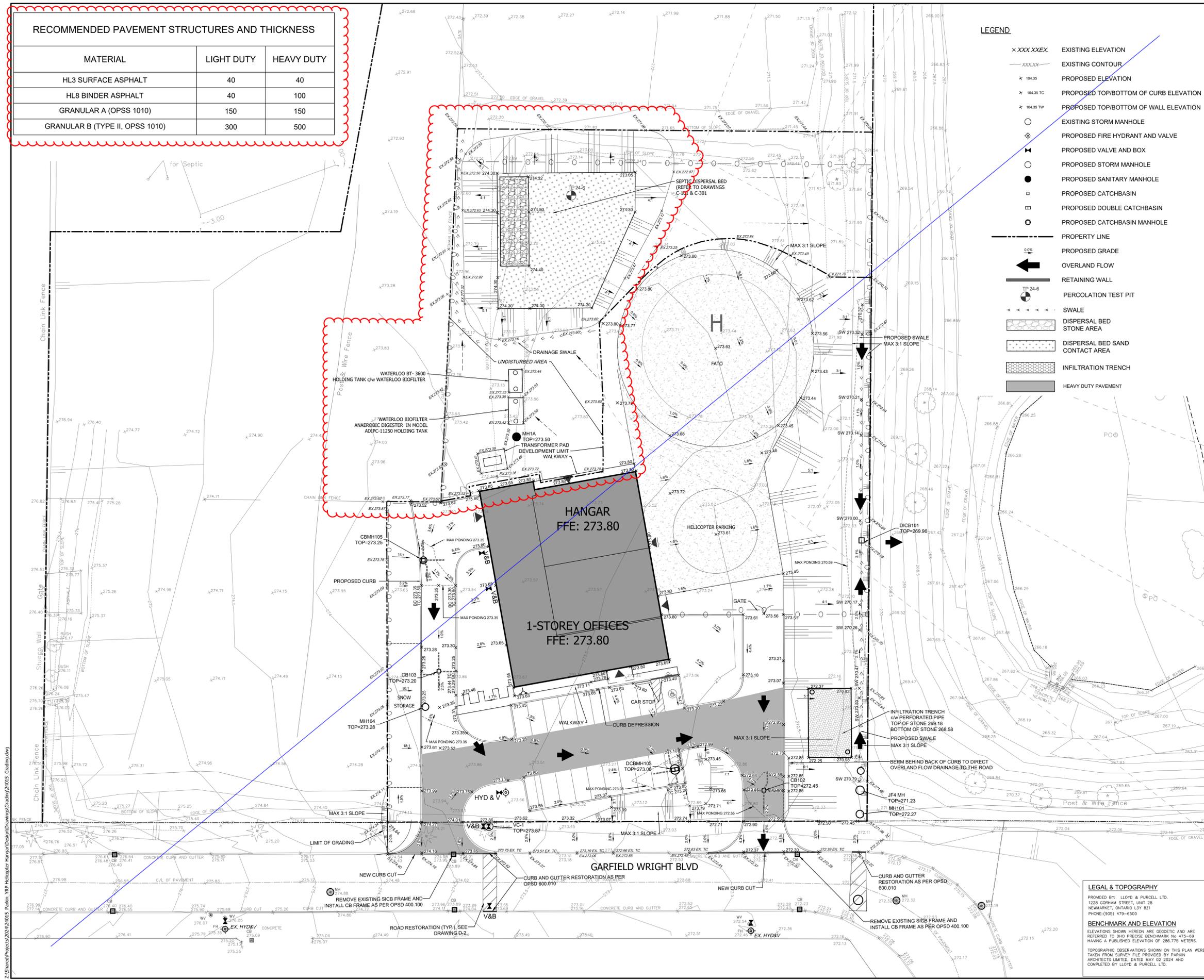
350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GUILMBURY

Key Plan
 NTS



LEGEND

- × XXX.XXEX EXISTING ELEVATION
- XXXXXX— 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
- — — — — PROPOSED GRADE
- ← OVERLAND FLOW
- — — — — RETAINING WALL
- TP-24-6 PERCOLATION TEST PIT
- ← — — — — — SWALE
- DISPERSAL BED STONE AREA
- DISPERSAL BED SAND CONTACT AREA
- INFILTRATION TRENCH
- HEAVY DUTY PAVEMENT



NO.	ISSUED	DATE
4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
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 Applicant:
YORK REGIONAL POLICE
 47 DON HILOCK DRIVE
 AURORA ONTARIO L4G0S7

Drawing Scale:

 Drawing No:
C-201

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Table 3 Recommended Pavement Structures and Thicknesses		
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

LEGEND

- × XXX.XXEX EXISTING ELEVATION
- XXX.XX— EXISTING CONTOUR
- * 104.35 PROPOSED ELEVATION
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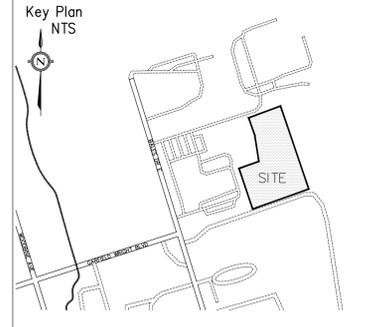
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416-467-8000



YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GUILMBURY



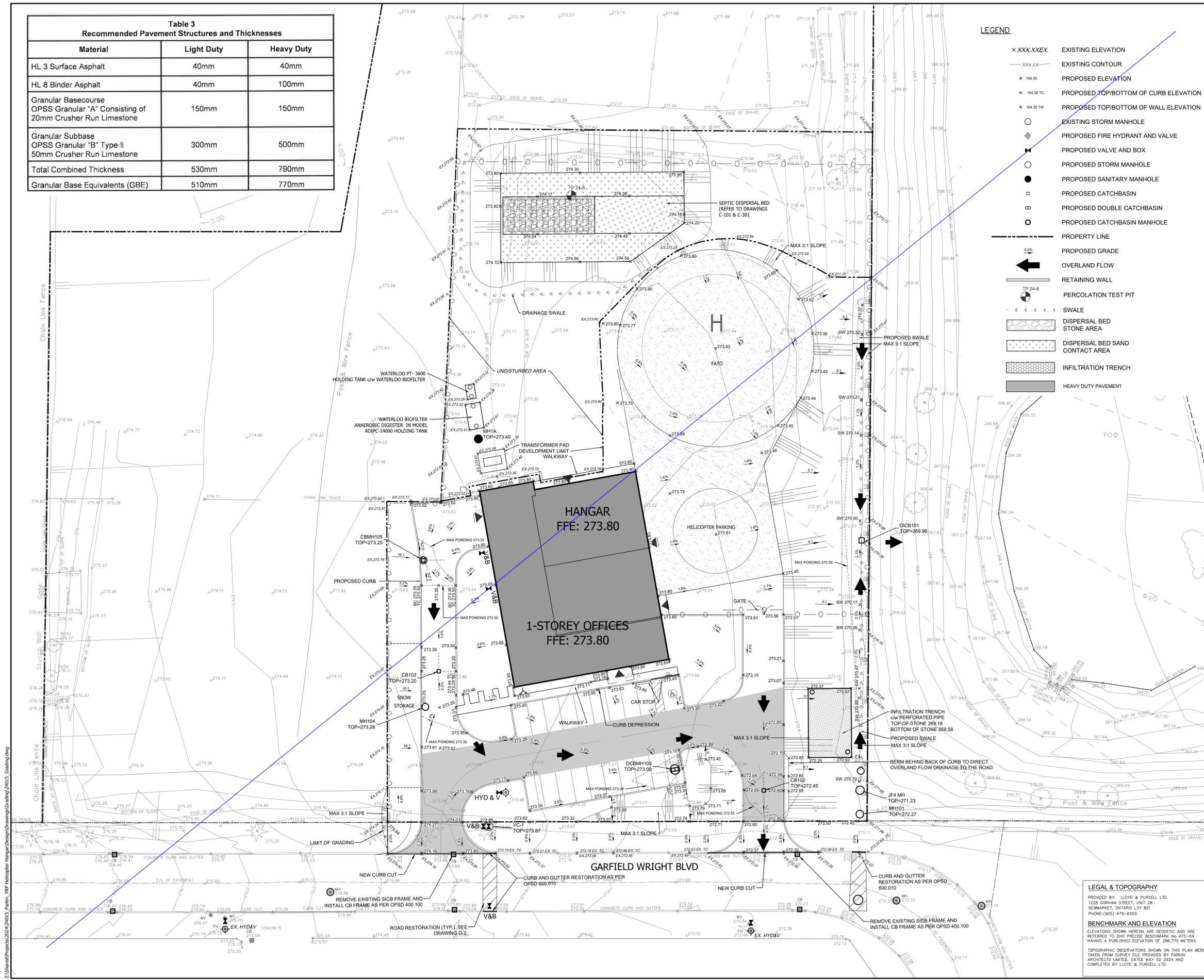
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AURORA ONTARIO L4G0S7

Drawing Scale:
1:300

Drawing No:
C-201

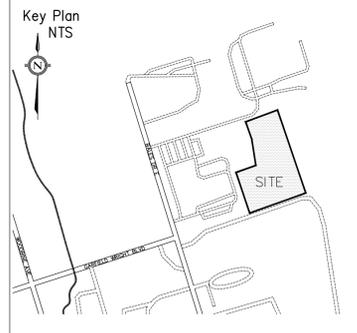


LEGAL & TOPOGRAPHY
PROVIDED BY: LLOYD & PURCELL LTD.
1228 CORHAM STREET, UNIT 28
NEWMARKET, ONTARIO L3Y 8Z1
PHONE: (905) 479-6500
BENCHMARK AND ELEVATION
ELEVATIONS SHOWN HEREIN ARE GEODETIC AND ARE REFERRED TO THE PRECISE BENCHMARK NO 479-69 HAVING A PUBLISHED ELEVATION OF 286.775 METERS.
TOPOGRAPHIC OBSERVATIONS SHOWN ON THIS PLAN WERE TAKEN FROM SURVEY FILE PROVIDED BY PARKIN ARCHITECTS LIMITED, DATED MAY 02 2024 AND COMPLETED BY LLOYD & PURCELL LTD.

Z:\Shared\Projects\2024\24015_Parkin_YRP_Helicopter_Hangar\Design\Drawings\Grading\24015_Grading.dwg

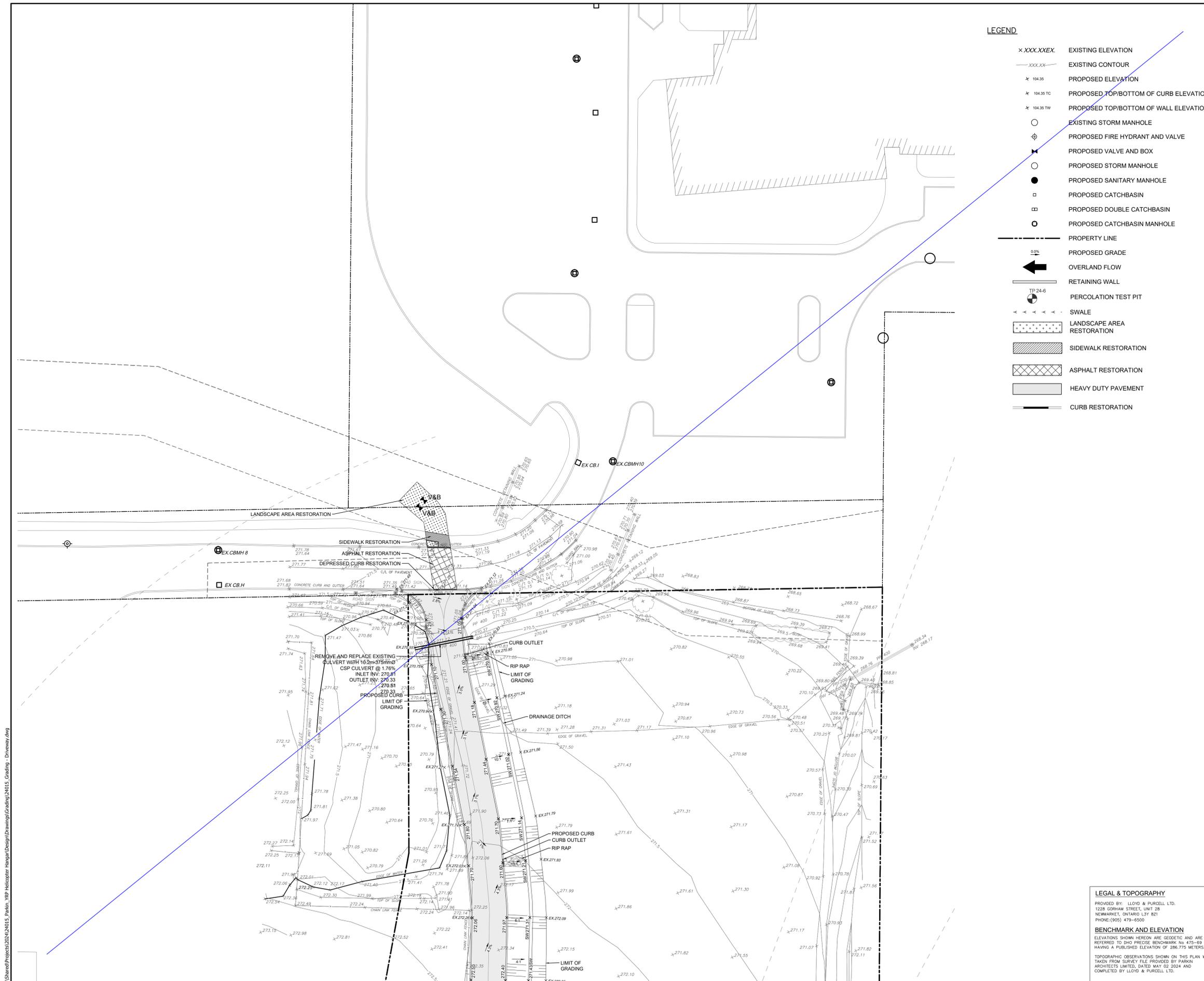
YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GUILMBURY



LEGEND

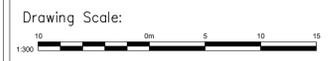
- x XXX.XXEX EXISTING ELEVATION
- XXX.XX--- EXISTING CONTOUR
- * 104.35 PROPOSED ELEVATION
- * 104.35 TC PROPOSED TOP/BOTTOM OF CURB ELEVATION
- * 104.35 TW PROPOSED TOP/BOTTOM OF WALL ELEVATION
- EXISTING STORM MANHOLE
- PROPOSED FIRE HYDRANT AND VALVE
- ⊕ PROPOSED VALVE AND BOX
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED CATCHBASIN
- ▣ PROPOSED DOUBLE CATCHBASIN
- PROPOSED CATCHBASIN MANHOLE
- PROPERTY LINE
- 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



NO.	ISSUED FOR PERMIT	DATE
1.	ISSUED FOR PERMIT	24-07-31
2.	ISSUED FOR SPA	24-08-30
3.	ISSUED FOR TENDER	24-09-09
4.	TENDER ADDENDUM #3	24-09-23
5.	TENDER ADDENDUM #7	24-10-03
6.	TENDER ADDENDUM #14	24-11-27

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

Sheet Title:
SITE GRADING PLAN
 Applicant:
YORK REGIONAL POLICE
 47 DON HILOCK DRIVE
 AURORA ONTARIO L4G6S7



Drawing No:
C-202

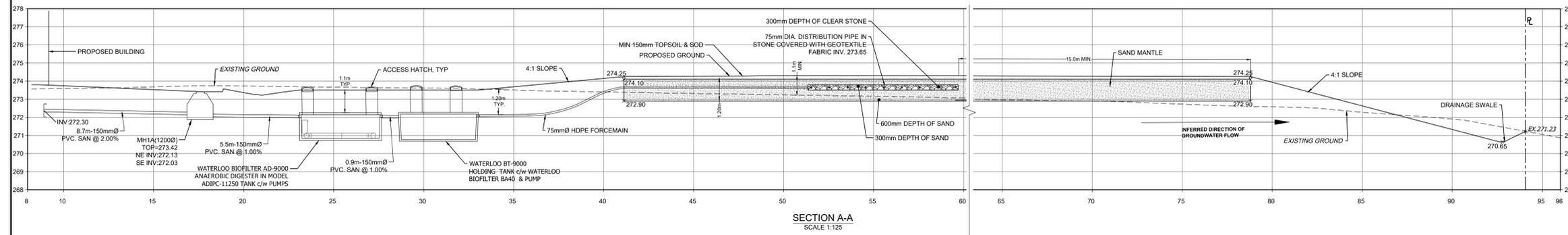
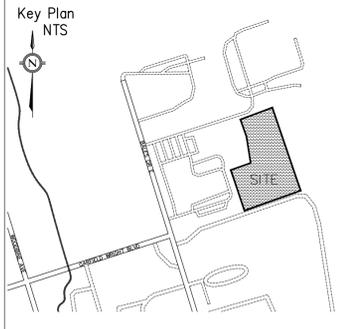
LEGAL & TOPOGRAPHY
 PROVIDED BY: LLOYD & PURCELL LTD.
 1228 GERRARD STREET, UNIT 28
 NEWMARKET, ONTARIO L3Y 8Z1
 PHONE: (905) 479-6500
BENCHMARK AND ELEVATION
 ELEVATIONS SHOWN HEREIN ARE GEODETIC AND ARE REFERRED TO THE PRECISE BENCHMARK No 470-69 HAVING A PUBLISHED ELEVATION OF 286.775 METERS.
 TOPOGRAPHIC OBSERVATIONS SHOWN ON THIS PLAN WERE TAKEN FROM SURVEY FILE PROVIDED BY PARKIN ARCHITECTS LIMITED, DATED MAY 02 2024 AND COMPLETED BY LLOYD & PURCELL LTD.

Z:\Shared\Projects\2024\24015_Parkin_YRP_Heliporter_Hangar\Design\Drawings\Grading\24015_Grading_Driveaway.dwg

MATCH LINE: REFER TO DRAWING C-201 FOR CONTINUATION

YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY



SEPTIC SYSTEM NOTES

GENERAL

- ALL COMPONENTS OF THIS PRIVATE WASTE DISPOSAL SYSTEM SHALL CONFORM TO THE ONTARIO BUILDING CODE AND THE REQUIREMENTS OF THE MUNICIPALITY
- WORK ON SEWAGE DISPOSAL SYSTEM IS TO BE INITIATED AND COMPLETED BY ONE LICENSED CONTRACTOR.
- THE SYSTEM SHOULD NOT BE CONSTRUCTED UNTIL THE STRUCTURE IS SUBSTANTIALLY CONSTRUCTED WITH BRICK CLADDING COMPLETED. ALTERNATIVELY, THE AREA OF THE SEWAGE SYSTEM MUST BE PROTECTED BY BARRIERS OR FENCES.
- ALL SANITARY WASTEWATER FROM THE BUILDING IS TO FLOW BY GRAVITY INTO A SEPTIC TANK WITH A MINIMUM OF A COMMERCIALY AVAILABLE 3,600L TANK.

ANAEROBIC DIGESTER

- THE ANAEROBIC DIGESTER TANK SHALL BE PRECAST CONC. PLACED ON 200mm DEEP GRANULAR 'B' BEDDING AND COMPACTED TO 100% STANDARD PROCTOR DENSITY.
- AN EFFLUENT FILTER IS TO BE INSTALLED IN THE OUTLET OF THE ANAEROBIC DIGESTER.
- ACCESS RISERS ARE TO BE INSTALLED OVER BOTH THE INLET AND OUTLET OF THE ANAEROBIC DIGESTER.

TERTIARY TREATMENT UNITS

- TERTIARY TREATMENT UNITS ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE WASTEWATER IS PUMPED TO A WATERLOO BIOFILTER MODEL BT 9000 TREATMENT UNIT CONSISTING OF AN 3,600 L CONCRETE TANK (BROOKLIN PT-3600 OR APPROVED EQUIVALENT). THE WASTEWATER IS EVENLY DISTRIBUTED OVER THE SURFACE OF THE MEDIUM BY SPRAY NOZZLES AND TREATED AS IT TRICKLES THROUGH THE INTERIOR OF THE MEDIUM. THE TREATED EFFLUENT COLLECTS ON THE FLOOR OF THE TANK. THE TANK IS EQUIPPED WITH TWO (2) SUBMERSIBLE EFFLUENT PUMPS OPERATING ON ALTERNATING DEMAND.
- EACH DOSE APPROXIMATELY 50% OF THE TREATED EFFLUENT IS PUMPED TO THE INLET OF THE ANAEROBIC DIGESTER. EACH DOSE OF THE REMAINING TREATED EFFLUENT IS PUMPED TO THE DISPERSAL BED.

PIPING

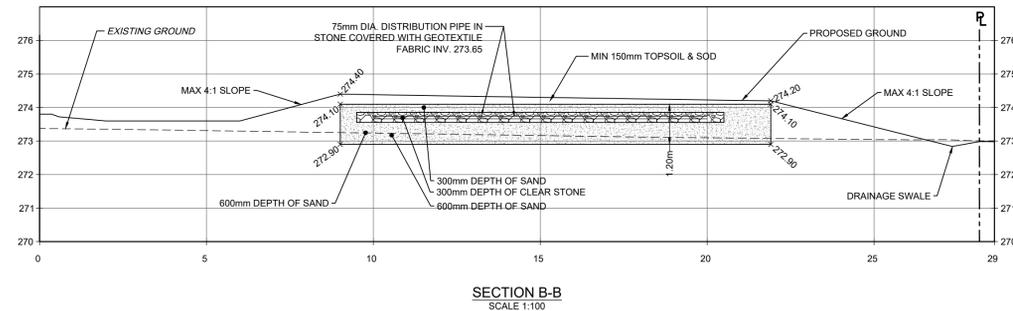
- DISTRIBUTION PIPE AND GRAVITY FEED PIPING BETWEEN THE BUILDING AND THE TANKS SHALL BE CSA APPROVED PVC PLASTIC PIPE OR HDPE. PVC PIPE JOINTS SHALL BE SOLVENT WELDED OR SOCKET JOINTS AND FITTINGS.

DISPERSAL AREA BED

- SOURCES OF STONE, SAND AND BACKFILL MATERIAL DISPERSAL AREA BED SHALL BE APPROVED BY THE INSPECTOR PRIOR TO USE. THE CONTRACTOR SHALL SUBMIT GRADATION CURVES FOR EACH TYPE OF MATERIAL PRIOR TO THE APPROVAL OF THE SOURCE.
- CLEAR STONE SHALL BE 19mm WASHED AGGREGATE FREE OF FINES.
- SELECT SAND FOR DISPERSAL AREA BED SHALL CONFORM TO UNITED SOILS CLASSIFICATION SYSTEM GRADATION CURVE SW FOR WELL GRADED SANDS. SAND SHALL BE FREE FROM CLAY AND ORGANIC MATERIAL WITH A MAXIMUM SILT CONTENT OF 10%. SELECT SAND SHALL HAVE A PERCOLATION RATE OF BETWEEN 5 AND 10 min/cm.
- NATIVE FILL SHALL BE ON SITE MATERIAL OR IMPORTED MATERIAL, FREE FROM ORGANICS AND CAPABLE OF BEING COMPACTED NATIVE FILL SHALL NOT BE OVERLY WET.
- THE BASE EXCAVATION OF BED SHALL BE SCARIFIED PRIOR TO PLACING IMPORTED FILL NO EQUIPMENT (RUBBER Tired OR TRACKED) SHALL COME IN DIRECT CONTACT WITH THE SCARIFIED SOIL. IMPORTED MATERIAL IS TO BE BLADED ONTO THE SCARIFIED AREA IN 8"-10" LIFTS AND TRACK COMPACTED.
- THE DISPERSAL BED AREA SHALL BE SODDED AND MULCHED IMMEDIATELY UPON COMPLETION TO PREVENT EROSION.
- FINAL GRADING INCLUDING FILL MATERIAL, TOPSOIL AND SOD AROUND THE SEWAGE SYSTEM SHALL BE COMPLETED UNDER THE DIRECTION OF THE SEWAGE SYSTEM CONTRACTOR TO ENSURE THAT THE SEWAGE SYSTEM IS NOT ADVERSELY AFFECTED BY THESE OPERATIONS.

RESTRICTIONS

- BUILDING EAVES THROUGH DOWNSPOUTS ARE NOT TO BE CONNECTED TO THE SEWAGE SYSTEM.
- BUILDING DOWNSPOUTS ARE TO BE DIRECTED TO SPLASH PADS AWAY FROM LEACHING BED AND TANK AREAS.
- NO LANDSCAPING INVOLVING, BERMS, FOUNDATIONS, PATIOS, WALKWAYS DRIVEWAYS, OR NEWLY PLANTED TREES SHALL BE PERMITTED IN THE DISPERSAL AREA INCLUDING SIDE SLOPES.
- THE INSTALLATION OF ANY LAWN IRRIGATION SYSTEMS SHALL NOT BE PERMITTED WITHIN THE DISPERSAL BED AREA OR ON ADJACENT AREAS WHICH MAY DETRIMENTALLY AFFECT THE OPERATION AND EFFECTIVENESS OF THE DISPERSAL AREA. SPRINKLER HEADS SHALL NOT DIRECT SPRAY ONTO THE AREA BED.



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

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

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

Mastic Sealant
Tongue and Groove Joint

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

NEWMARKET PRE-CAST
Solid For 60 Years

20 Victoria St.
Uxbridge, ON L9P 1N4
Tel: 905-852-6111
Fax: 905-852-3263
Info@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

HW = 8' 10" / 11"

Alphan 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

- Two cast in 50mm Outlets for Recirculation Line and Disposal Line
- Cast in Place 610mm ID Polylok Riser with 50mm Spray Manifold through top riser and Insulated Carbon Ventd Lid Secured with Hex-Head Stainless Steel Fasteners
- Cast in place 610mm ID Polylok Riser with Insulated Lid Secured with Hex-Head Stainless Steel Fasteners
*Additional polylok riser with spigotbox 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
Fax: 905-852-3263
Info@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

HW = 8' 10" / 11"

Alphan 2021

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

Sheet Title:
SEPTIC SYSTEM NOTES & DETAILS

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

Drawing Scale:
AS NOTED

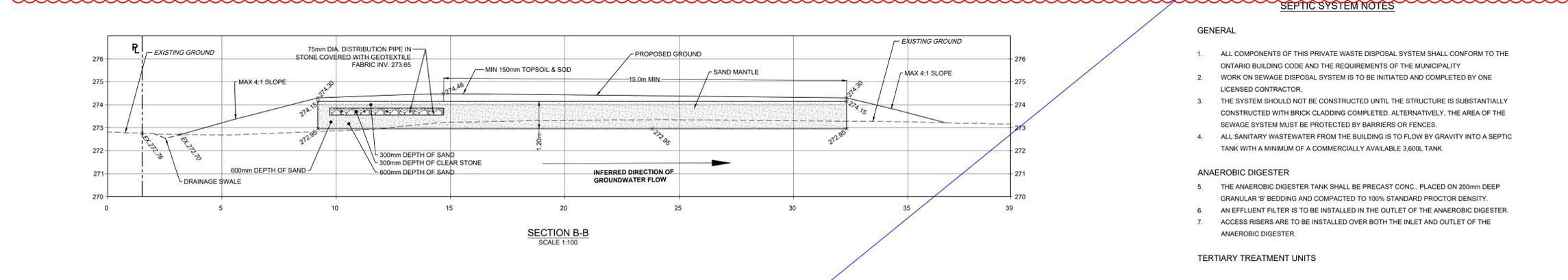
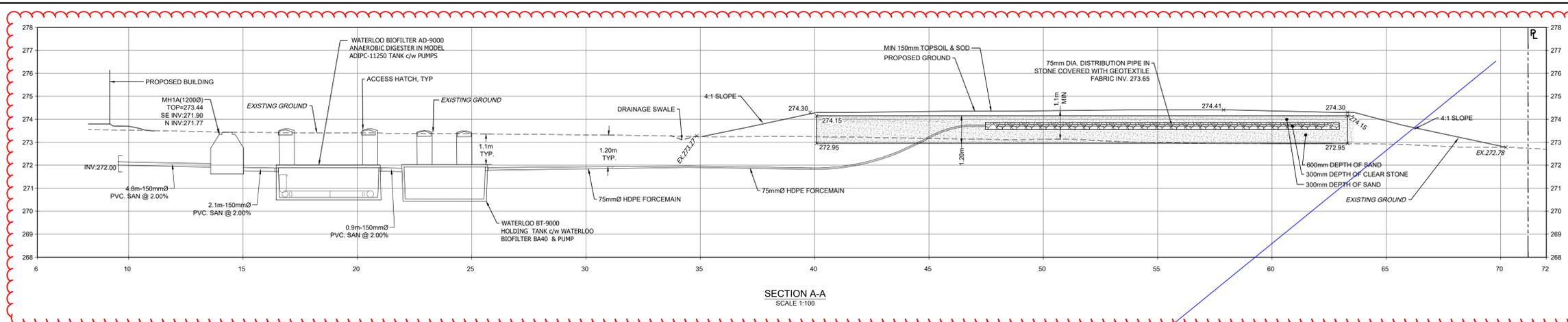
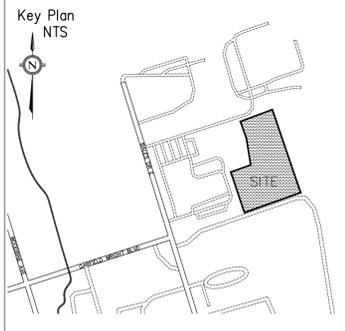
Drawing No:

C-301

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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GUILMBURY



SEPTIC SYSTEM NOTES

- GENERAL**
- ALL COMPONENTS OF THIS PRIVATE WASTE DISPOSAL SYSTEM SHALL CONFORM TO THE ONTARIO BUILDING CODE AND THE REQUIREMENTS OF THE MUNICIPALITY.
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 - THE SYSTEM SHOULD NOT BE CONSTRUCTED UNTIL THE STRUCTURE IS SUBSTANTIALLY CONSTRUCTED WITH BRICK CLADDING COMPLETED. ALTERNATIVELY, THE AREA OF THE SEWAGE SYSTEM MUST BE PROTECTED BY BARRIERS OR FENCES.
 - ALL SANITARY WASTEWATER FROM THE BUILDING IS TO FLOW BY GRAVITY INTO A SEPTIC TANK WITH A MINIMUM OF A COMMERCIALY AVAILABLE 3,600L TANK.
- ANAEROBIC DIGESTER**
- THE ANAEROBIC DIGESTER TANK SHALL BE PRECAST CONC. PLACED ON 200mm DEEP GRANULAR 'B' BEDDING AND COMPACTED TO 100% STANDARD PROCTOR DENSITY.
 - AN EFFLUENT FILTER IS TO BE INSTALLED IN THE OUTLET OF THE ANAEROBIC DIGESTER.
 - ACCESS RISERS ARE TO BE INSTALLED OVER BOTH THE INLET AND OUTLET OF THE ANAEROBIC DIGESTER.
- TERTIARY TREATMENT UNITS**
- TERTIARY TREATMENT UNITS ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - THE WASTEWATER IS PUMPED TO A WATERLOO BIOFILTER MODEL BT 9000 TREATMENT UNIT CONSISTING OF AN 3,600 L CONCRETE TANK (BROOKLIN PT-3600 OR APPROVED EQUIVALENT). THE WASTEWATER IS EVENLY DISTRIBUTED OVER THE SURFACE OF THE MEDIUM BY SPRAY NOZZLES AND TREATED AS IT TRICKLES THROUGH THE INTERIOR OF THE MEDIUM. THE TREATED EFFLUENT COLLECTS ON THE FLOOR OF THE TANK. THE TANK IS EQUIPPED WITH TWO (2) SUBMERSIBLE EFFLUENT PUMPS OPERATING ON ALTERNATING DEMAND.
 - EACH DOSE APPROXIMATELY 50% OF THE TREATED EFFLUENT IS PUMPED TO THE INLET OF THE ANAEROBIC DIGESTER. EACH DOSE OF THE REMAINING TREATED EFFLUENT IS PUMPED TO THE DISPERSAL BED.
- PIPING**
- DISTRIBUTION PIPE AND GRAVITY FEED PIPING BETWEEN THE BUILDING AND THE TANKS SHALL BE CSA APPROVED PVC PLASTIC PIPE OR HDPE. PVC PIPE JOINTS SHALL BE SOLVENT WELDED OR SOCKET JOINTS AND FITTINGS.
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 - NO LANDSCAPING INVOLVING, BERMS, FOUNDATIONS, PATIOS, WALKWAYS DRIVEWAYS, OR NEWLY PLANTED TREES SHALL BE PERMITTED IN THE DISPERSAL AREA INCLUDING SIDE SLOPES.
 - THE INSTALLATION OF ANY LAWN IRRIGATION SYSTEMS SHALL NOT BE PERMITTED WITHIN THE DISPERSAL BED AREA OR ON ADJACENT AREAS WHICH MAY DETRIMENTALLY AFFECT THE OPERATION AND EFFECTIVENESS OF THE DISPERSAL AREA. SPRINKLER HEADS SHALL NOT DIRECT SPRAY ONTO THE AREA BED.

Model 11250 Anaerobic Digester with Internal Pump Chamber
2500 Imperial Gallons

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..... 3,275 Kg (7,229 Lbs)
Total Tank Weight..... 10,681 Kg (23,547 Lbs)

Notes

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

Mastic Sealant
Tongue and Groove Joint

20 Victoria St. Uxbridge, ON L9P 1H4
Tel: 905-852-6111
Toll Free: 1-800-263-1297
Fax: 905-852-4340
Info@Newmarketprecast.com
Newmarketprecast.com

Designed for up to One Meter burial over top of tank - Deep burial and vehicle traffic limits are available upon request. Specialty configurations may be possible.

HW = 8' 1/2" / 11' Aliphan 2021

Model 9000 Basket Tank
2000 Imperial Gallon

WORKING CAPACITY: 9530L (2,096 IG)

Bare Base Weight..... 6,090 Kg (13,426 Lbs)
Lid Weight..... 2,282 Kg (4,987 Lbs)
Total Tank Weight..... 8,352 Kg (18,413 Lbs)

Notes

- Two cast in 50mm Outlets for Recirculation Line and Disposal Line
- 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
- 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 AGNP

20 Victoria St. Uxbridge, ON L9P 1H4
Tel: 905-852-6111
Toll Free: 1-800-263-1297
Fax: 905-852-4340
Info@Newmarketprecast.com
Newmarketprecast.com

Designed for up to One Meter burial over top of tank - Deep burial and vehicle traffic limits are available upon request. Specialty configurations may be possible.

HW = 8' 1/2" / 11' Aliphan 2021

NO.	ISSUED	DATE
5.	TENDER ADDENDUM #7	24-10-03
4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

Issues

Stamp:

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

Sheet Title:
SEPTIC SYSTEM NOTES & DETAILS

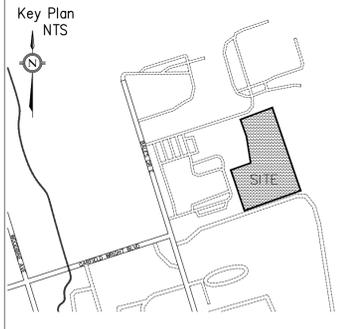
Applicant:
YORK REGIONAL POLICE
47 DON HILLOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:
AS NOTED

Drawing No:
C-301

YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GUILMBURY



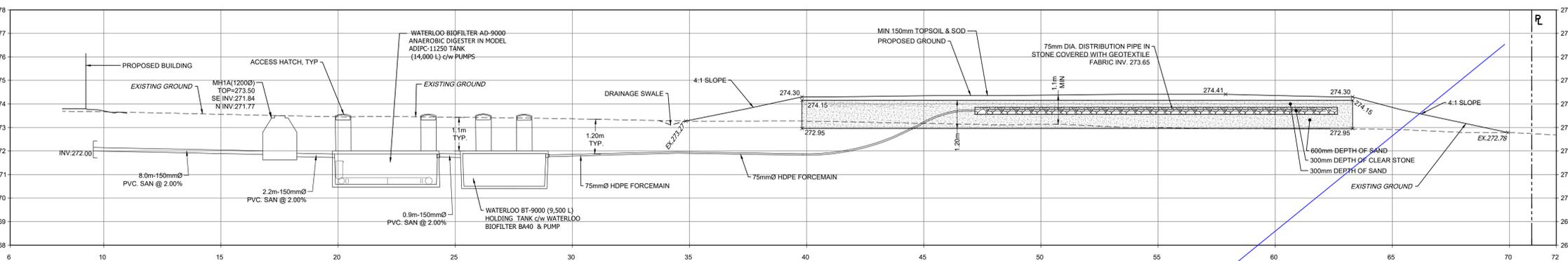
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NO.	ISSUED	DATE

Issues

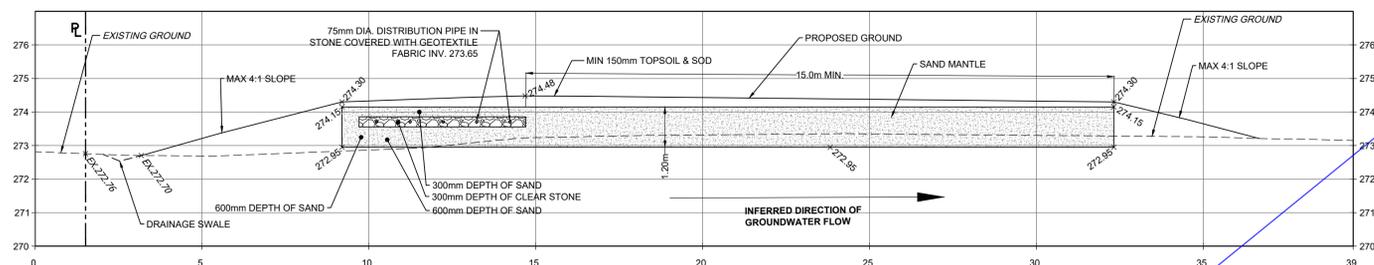
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Applicant:
YORK REGIONAL POLICE
47 DON HILLOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:
AS NOTED
Drawing No:
C-301



SECTION A-A
SCALE 1:100



SECTION B-B
SCALE 1:100

SEPTIC SYSTEM NOTES

GENERAL

- ALL COMPONENTS OF THIS PRIVATE WASTE DISPOSAL SYSTEM SHALL CONFORM TO THE ONTARIO BUILDING CODE AND THE REQUIREMENTS OF THE MUNICIPALITY.
- WORK ON SEWAGE DISPOSAL SYSTEM IS TO BE INITIATED AND COMPLETED BY ONE LICENSED CONTRACTOR.
- THE SYSTEM SHOULD NOT BE CONSTRUCTED UNTIL THE STRUCTURE IS SUBSTANTIALLY CONSTRUCTED WITH BRICK CLADDING COMPLETED. ALTERNATIVELY, THE AREA OF THE SEWAGE SYSTEM MUST BE PROTECTED BY BARRIERS OR FENCES.
- ALL SANITARY WASTEWATER FROM THE BUILDING IS TO FLOW BY GRAVITY INTO A SEPTIC TANK WITH A MINIMUM OF A COMMERCIALY AVAILABLE 3,600L TANK.

ANAEROBIC DIGESTER

- THE ANAEROBIC DIGESTER TANK SHALL BE PRECAST CONC. PLACED ON 200mm DEEP GRANULAR 'B' BEDDING AND COMPACTED TO 100% STANDARD PROCTOR DENSITY.
- AN EFFLUENT FILTER IS TO BE INSTALLED IN THE OUTLET OF THE ANAEROBIC DIGESTER.
- ACCESS RISERS ARE TO BE INSTALLED OVER BOTH THE INLET AND OUTLET OF THE ANAEROBIC DIGESTER.

TERTIARY TREATMENT UNITS

- TERTIARY TREATMENT UNITS ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE WASTEWATER IS PUMPED TO A WATERLOO BIOFILTER MODEL BT 9000 TREATMENT UNIT CONSISTING OF AN 3,600 L CONCRETE TANK (BROOKLIN PT-3600 OR APPROVED EQUIVALENT). THE WASTEWATER IS EVENLY DISTRIBUTED OVER THE SURFACE OF THE MEDIUM BY SPRAY NOZZLES AND TREATED AS IT TRICKLES THROUGH THE INTERIOR OF THE MEDIUM. THE TREATED EFFLUENT COLLECTS ON THE FLOOR OF THE TANK. THE TANK IS EQUIPPED WITH TWO (2) SUBMERSIBLE EFFLUENT PUMPS OPERATING ON ALTERNATING DEMAND.
- EACH DOSE APPROXIMATELY 50% OF THE TREATED EFFLUENT IS PUMPED TO THE INLET OF THE ANAEROBIC DIGESTER. EACH DOSE OF THE REMAINING TREATED EFFLUENT IS PUMPED TO THE DISPERSAL BED.

PIPING

- DISTRIBUTION PIPE AND GRAVITY FEED PIPING BETWEEN THE BUILDING AND THE TANKS SHALL BE CSA APPROVED PVC PLASTIC PIPE OR HDPE. PVC PIPE JOINTS SHALL BE SOLVENT WELDED OR SOCKET JOINTS AND FITTINGS.

DISPERSAL AREA BED

- SOURCES OF STONE, SAND AND BACKFILL MATERIAL DISPERSAL AREA BED SHALL BE APPROVED BY THE INSPECTOR PRIOR TO USE. THE CONTRACTOR SHALL SUBMIT GRADATION CURVES FOR EACH TYPE OF MATERIAL PRIOR TO THE APPROVAL OF THE SOURCE.
- CLEAR STONE SHALL BE 19mm WASHED AGGREGATE FREE OF FINES.
- SELECT SAND FOR DISPERSAL AREA BED SHALL CONFORM TO UNITED SOILS CLASSIFICATION SYSTEM GRADATION CURVE SW FOR WELL GRADED SANDS. SAND SHALL BE FREE FROM CLAY AND ORGANIC MATERIAL WITH A MAXIMUM SILT CONTENT OF 10%. SELECT SAND SHALL HAVE A PERCOLATION RATE OF BETWEEN 5 AND 10 min/cm.
- NATIVE FILL SHALL BE ON SITE MATERIAL OR IMPORTED MATERIAL, FREE FROM ORGANICS AND CAPABLE OF BEING COMPACTED NATIVE FILL SHALL NOT BE OVERLY WET.
- THE BASE EXCAVATION OF BED SHALL BE SCARIFIED PRIOR TO PLACING IMPORTED FILL. NO EQUIPMENT (RUBBER Tired OR TRACKED) SHALL COME IN DIRECT CONTACT WITH THE SCARIFIED SOIL. IMPORTED MATERIAL IS TO BE BLADED ONTO THE SCARIFIED AREA IN 8"-10" LIFTS AND TRACK COMPACTED.
- THE DISPERSAL BED AREA SHALL BE SODDED AND MULCHED IMMEDIATELY UPON COMPLETION TO PREVENT EROSION.
- FINAL GRADING INCLUDING FILL MATERIAL, TOPSOIL AND SOD AROUND THE SEWAGE SYSTEM SHALL BE COMPLETED UNDER THE DIRECTION OF THE SEWAGE SYSTEM CONTRACTOR TO ENSURE THAT THE SEWAGE SYSTEM IS NOT ADVERSELY AFFECTED BY THESE OPERATIONS.

RESTRICTIONS

- BUILDING EAVES THROUGH DOWNSPOUTS ARE NOT TO BE CONNECTED TO THE SEWAGE SYSTEM.
- BUILDING DOWNSPOUTS ARE TO BE DIRECTED TO SPLASH PADS AWAY FROM LEACHING BED AND TANK AREAS.
- NO LANDSCAPING INVOLVING, BERMS, FOUNDATIONS, PATIOS, WALKWAYS DRIVEWAYS, OR NEWLY PLANTED TREES SHALL BE PERMITTED IN THE DISPERSAL AREA INCLUDING SIDE SLOPES.
- THE INSTALLATION OF ANY LAWN IRRIGATION SYSTEMS SHALL NOT BE PERMITTED WITHIN THE DISPERSAL BED AREA OR ON ADJACENT AREAS WHICH MAY DETRIMENTALLY AFFECT THE OPERATION AND EFFECTIVENESS OF THE DISPERSAL AREA. SPRINKLER HEADS SHALL NOT DIRECT SPRAY ONTO THE AREA BED.

Model 11250 Anaerobic Digester with Internal Pump Chamber
2500 Imperial Gallons

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: 3,275 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 AGNP

Mastic Sealant
Tongue and Groove Joint

20 Victoria St. Uxbridge, ON L9P 1H4
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

WORKING CAPACITY: 9530L (2096 IG)

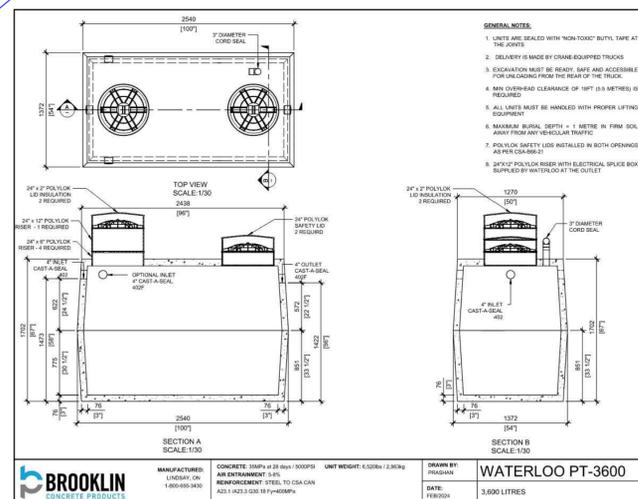
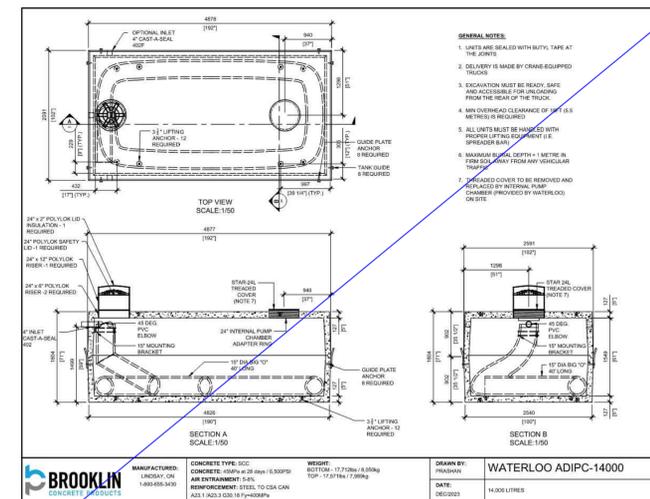
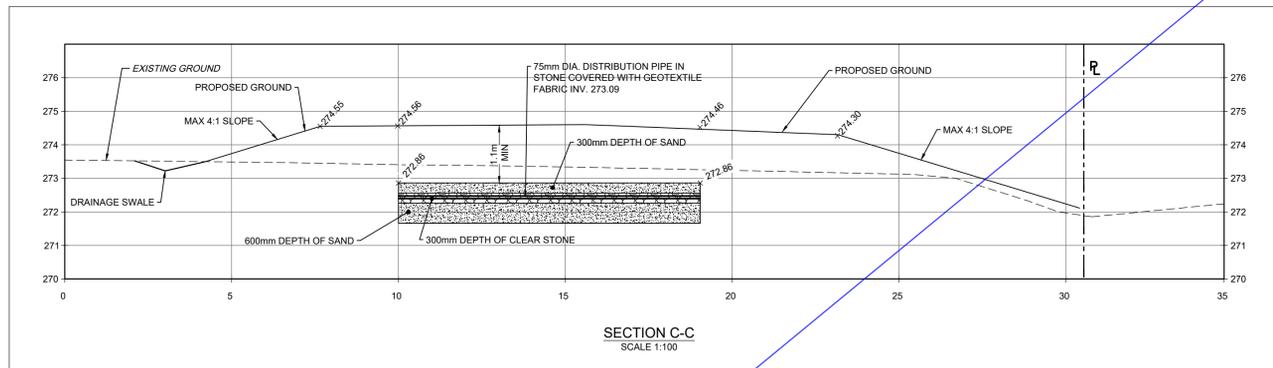
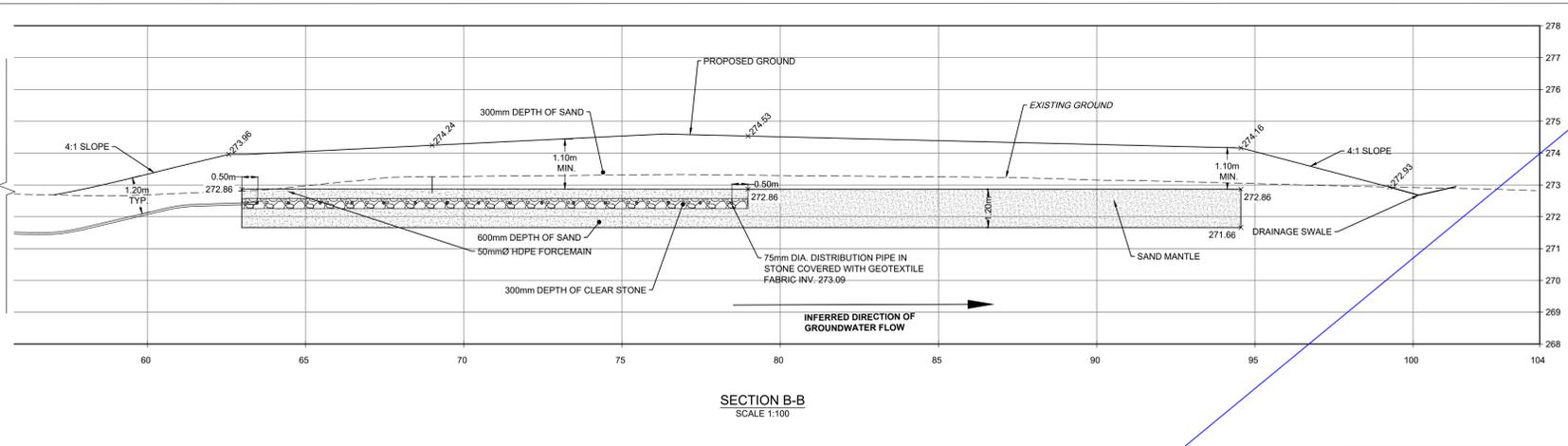
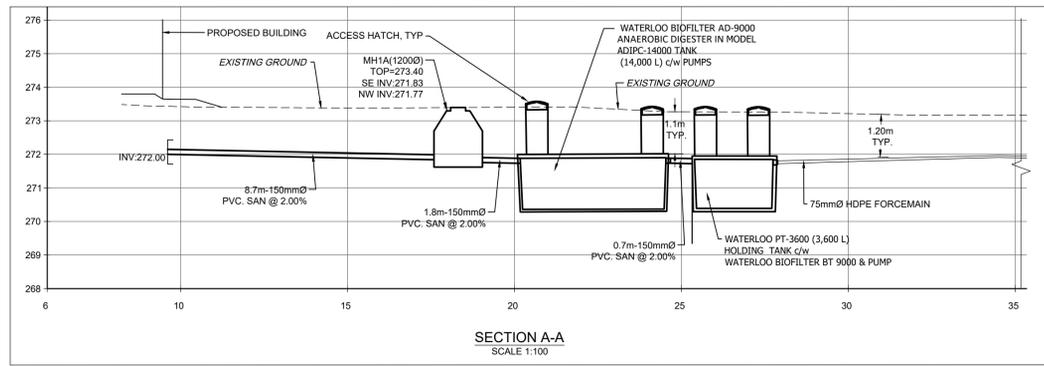
Bare Base Weight: 6,090 Kg (13,426 Lbs)
Lid Weight: 2,282 Kg (4,987 Lbs)
Total Tank Weight: 8,352 Kg (18,413 Lbs)

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 AGNP

20 Victoria St. Uxbridge, ON L9P 1H4
Tel: 905-852-6111
Toll Free: 1-800-263-1297
Fax: 905-852-4340
Info@Newmarketprecast.com
Newmarketprecast.com



SEPTIC SYSTEM NOTES

GENERAL

- ALL COMPONENTS OF THIS PRIVATE WASTE DISPOSAL SYSTEM SHALL CONFORM TO THE ONTARIO BUILDING CODE AND THE REQUIREMENTS OF THE MUNICIPALITY.
- WORK ON SEWAGE DISPOSAL SYSTEM IS TO BE INITIATED AND COMPLETED BY ONE LICENSED CONTRACTOR.
- THE SYSTEM SHOULD NOT BE CONSTRUCTED UNTIL THE STRUCTURE IS SUBSTANTIALLY CONSTRUCTED WITH BRICK CLADDING COMPLETED. ALTERNATIVELY, THE AREA OF THE SEWAGE SYSTEM MUST BE PROTECTED BY BARRIERS OR FENCES.
- ALL SANITARY WASTEWATER FROM THE BUILDING IS TO FLOW BY GRAVITY INTO A SEPTIC TANK WITH A MINIMUM OF THREE (3) DAYS RETENTION, BEING A COMMERCIALY AVAILABLE 3,600L TANK.

SEPTIC TANK

- SEPTIC TANK SHALL BE PRECAST CONC., PLACED ON 200mm DEEP GRAN. 'B' BEDDING AND COMPACTED TO 100% STANDARD PROCTOR DENSITY.
- EFFLUENT FILTER IS TO BE INSTALLED IN THE OUTLET OF THE SEPTIC TANK.
- ACCESS RISERS ARE TO BE INSTALLED OVER BOTH THE INLET AND OUTLET OF THE SEPTIC TANK.
- THE SEPTIC TANK EFFLUENT FLOWS BY GRAVITY INTO A BALANCING TANK WITH APPROXIMATELY ONE DAY RETENTION TIME, BEING A COMMERCIALY AVAILABLE 3,600L TANK. THE PUMP TANK IS EQUIPPED WITH TWO (2) SUBMERSIBLE PUMPS OPERATING ON AN ALTERNATING TIME.

TERTIARY TREATMENT UNITS

- TERTIARY TREATMENT UNITS ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE WASTEWATER IS PUMPED TO A WATERLOO BIOFILTER MODEL 80 WIRE MESH BASKET TREATMENT UNIT CONSISTING OF AN 3,600 L CONCRETE TANK (NEWMARKET PRECAST OR EQUIVALENT) HOUSING TWO (2) WIRE MESH BASKETS FILLED WITH MEDIUM. THE WASTEWATER IS EVENLY DISTRIBUTED OVER THE SURFACE OF THE MEDIUM BY SPRAY NOZZLES AND TREATED AS IT TRICKLES THROUGH THE INTERIOR OF THE MEDIUM. THE TREATED EFFLUENT COLLECTS ON THE FLOOR OF THE TANK. THE TANK IS EQUIPPED WITH TWO (2) SUBMERSIBLE EFFLUENT PUMPS OPERATING ON ALTERNATING DEMAND.
- EACH DOSE APPROXIMATELY 50% OF THE TREATED EFFLUENT IS PUMPED TO THE INLET OF THE SEPTIC TANK. EACH DOSE OF THE REMAINING TREATED EFFLUENT IS PUMPED TO A WATERLOO BIOFILTER AREA BED.

PIPING

- DISTRIBUTION PIPE AND GRAVITY FEED PIPING BETWEEN THE BUILDING AND THE TANKS SHALL BE CSA APPROVED PVC PLASTIC PIPE OR HDPE. PVC PIPE JOINTS SHALL BE SOLVENT WELDED OR SOCKET JOINTS AND FITTINGS.

AREA BED

- SOURCES OF STONE, SAND AND BACKFILL MATERIAL FOR CLASS 4 SYSTEM SHALL BE APPROVED BY THE INSPECTOR PRIOR TO USE. THE CONTRACTOR SHALL SUBMIT GRADATION CURVES FOR EACH TYPE OF MATERIAL PRIOR TO THE APPROVAL OF THE SOURCE.
- CLEAR STONE SHALL BE 19mm WASHED AGGREGATE FREE OF FINES.
- SELECT SAND FOR AREA BEDS SHALL CONFORM TO UNITED SOILS CLASSIFICATION SYSTEM GRADATION CURVE SW FOR WELL GRADED SANDS. SAND SHALL BE FREE FROM CLAY AND ORGANIC MATERIAL WITH A MAXIMUM SILT CONTENT OF 10%. SELECT SAND SHALL HAVE A PERCOLATION RATE OF BETWEEN 5 AND 10 mm/min.
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RESTRICTIONS

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- BUILDING DOWNSPOUTS ARE TO BE DIRECTED TO SPLASH PADS AWAY FROM LEACHING BED AND TANK AREAS.
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- THE INSTALLATION OF ANY LAWN IRRIGATION SYSTEMS SHALL NOT BE PERMITTED WITHIN THE LEACHING BED AREA OR ON ADJACENT AREAS WHICH MAY DETRIMENTALLY AFFECT THE OPERATION AND EFFECTIVENESS OF THE PRIMARY AND RESERVE BED AREAS. SPRINKLER HEADS SHALL NOT DIRECT SPRAY ONTO THE AREA BED.

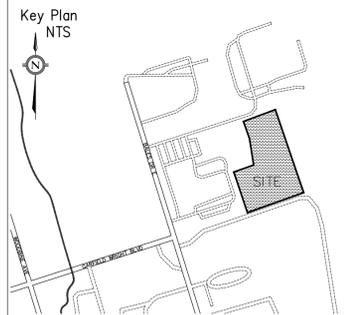
PARKIN

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



YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GWILLIMBURY



NO.	ISSUED	DATE
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31

Issues

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

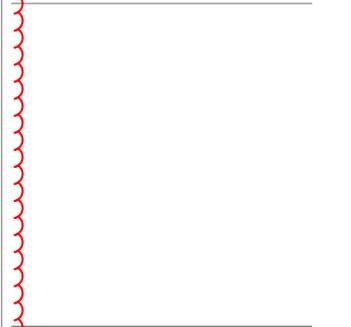
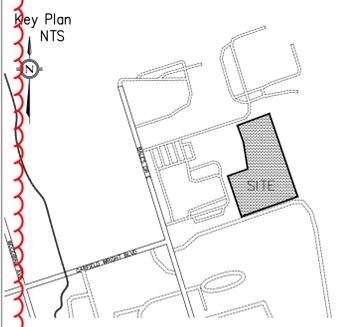
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SEPTIC SYSTEM NOTES & DETAILS
 Applicant:
YORK REGIONAL POLICE
 47 DON HILLOCK DRIVE
 AURORA ONTARIO L4G0S7

Drawing Scale:
 AS NOTED
 Drawing No:
 C-301

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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GWILLIMBURY



NO.	ISSUED FOR	DATE
4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

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1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

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

Sheet Title:
STANDARD DETAILS
 Applicant:
YORK REGIONAL POLICE
 47 DON HILLOCK DRIVE
 AURORA ONTARIO L4G0S7

Drawing No:
C-401

Alternate	Standard	Height	Grate	Type	Slope	a	b
A	1980	2H:1V	670	52			
B	1520	3H:1V	632	71			
C	1380	4H:1V	618	78			
		6H:1V	608	83			
		HDR	600	87			

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 4
PRECAST CONCRETE DITCH INLET
 600 x 600mm
 OPSD 705.030

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

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

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2017 Rev 3
GALVANIZED STEEL HONEYCOMB GRATING
 FOR DITCH INLETS
 OPSD 403.010

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

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 3
CAST IRON, SQUARE FRAME
 WITH SQUARE FLAT GRATE FOR
 CATCH BASINS, PERFORATED OPENINGS
 OPSD 400.100

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 4
CAST IRON, SQUARE FRAME WITH
 CIRCULAR CLOSED OR OPEN COVER
 FOR MAINTENANCE HOLES
 OPSD 401.010

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 4
PRECAST CONCRETE CATCH BASIN
 600x600mm
 OPSD 705.010

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 4
PRECAST CONCRETE CATCH BASIN
 600x600mm
 OPSD 705.010

TOWN OF EAST GWILLIMBURY STANDARD DRAWING
 FIRE & COMMERCIAL SERVICE
 VALVE CHAMBER

SAW CUT AND GRIND

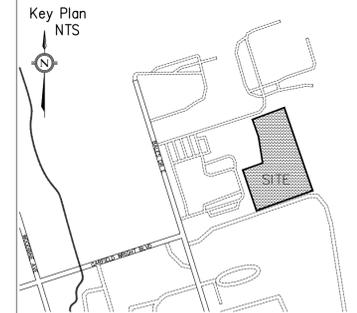
ROAD RESTORATION

INFILTRATION TRENCH SECTION
 SCALE: 1:100

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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY



Alternate Standard Heights		Grate Opening Dimensions	
Alternate	Dimension	Type	Slope
A	1980	2H-TV	6/70
B	1520	3H-TV	4/32
C	1380	4H-TV	6/18
		6H-TV	6/28
		HDR	6/0

NOTES:
1. Outlet hole size 525mm maximum diameter, location as required.
2. Where inlet is placed across ditch and is accessible to vehicular traffic, grating slope shall be 6H-TV or flatter.
3. Centre reinforcing in wall and slab 22mm.
4. Granular backfill shall be placed to a minimum thickness of 300mm all around the ditch inlet.
5. Grating shall be according to OPSD 708.020.
6. Pipe support shall be according to OPSD 708.020.
7. 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. For sump detail, see OPSD 701.010.
2. A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
3. Precast concrete components shall be according to OPSD 701.030, 701.031, 701.040, 701.041, 703.011, 703.021, and 706.010.
4. Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020 or 404.021.
5. Pipe support shall be according to OPSD 708.020.
6. For benching and pipe opening details, see OPSD 701.021.
7. For adjustment unit and frame installation, see OPSD 704.010.
8. 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.
2. A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
3. Precast concrete components shall be according to OPSD 701.030, 701.031, 701.040, 701.041, 703.011, 703.021, and 706.010.
4. Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020 or 404.021.
5. Pipe support shall be according to OPSD 708.020.
6. For benching and pipe opening details, see OPSD 701.021.
7. For adjustment unit and frame installation, see OPSD 704.010.
8. 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 Type	Length	Width
A	762	768
B	1338	768
C	1465	768

NOTES:
1. Equivalent (13x100mm Galvanized J-Bolt) cast-in-place anchor may be used.
2. A fastener shall be inserted to maintain minimum concrete cover requirements.
3. All steel components and rivets shall be galvanized.
4. 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 OPSD 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) Riser - OPSD 802.030, 802.031, 802.032, 802.033, 802.050, 802.051, 802.052, and 802.053.
3. A minimum insulation thickness shall be 50mm.
4. Joints shall be staggered for multiple insulation sheets.
5. This OPSD is to be read in conjunction with OPSD 3090.100 and 3090.101.
6. 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

NOTES:
1. This OPSD shall be read in conjunction with OPSD 610.010 and 610.020.
2. 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

NOTES:
1. Covers shall be Type A or Type B, as specified.
2. 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

NOTES:
1. Outlet hole size 525mm diameter maximum, location as required.
2. 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
3. Centre reinforcing in base slab and walls 22mm.
4. Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
5. Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
6. Pipe support shall be according to OPSD 708.020.
7. All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 4
PRECAST CONCRETE CATCH BASIN 600x600mm
OPSD 705.010

NOTES:
1. VALVE CHAMBER EXCAVATION TO BE BACKFILLED WITH GRANULAR 'B'.
2. CHAMBER NOT TO BE LOCATED IN DRIVEWAY.
3. CAP TO BE DRILLED FOR SLEEVING VALVE BOX TO BE SET AT GROUND ELEVATION. VALVE BOX TO ALIGN WITH VALVE BELOW GRADE.
4. ALL PIPES PASSING THROUGH PRE-CAST CHAMBER WALLS TO BE SEALED WITH NON-SHRINKABLE MORTAR.
5. ALL TIE DOWNS TO BE CADMIUM OR ZINC COATED.
6. THE FINISHED ELEVATION OF VALVE BOXES AND CHAMBER MANHOLES SHALL BE SET FLUSH WITH FINISHED GRADE.
7. ALL VALVES TO BE FLANGE TYPE WITH FLANGE END ADAPTERS.
8. ALL WATER LINE SIZING TO BE CERTIFIED BY A CONSULTANT TO VERIFY ALL APPLICABLE CODES AND OR LEGISLATION HAS BEEN MET.
9. ALL ITEMS REFERENCE ARE TO CONFORM TO ALL CURRENT O.P.S.D. STANDARDS.

TOWN OF EAST GWILLIMBURY STANDARD DRAWING
FIRE & COMMERCIAL SERVICE VALVE CHAMBER

NOTES:
1. TOPSOIL AND SUBSOIL (REFER TO LANDSCAPE PLANS)
2. Q=0.023m³/s
3. v=0.039m/s
4. V=0.50m/s

counterpoint ENGINEERING
SCALE: 1:50

NOTES:
1. GRIND 300mm WIDE x 40mm DEEP ALONG FULL LENGTH OF SAWCUT FOR PLACEMENT OF NEW TOP COURSE ASPHALT c/w TACK COAT AND BITUMINOUS BEAD ALONG JOINT.
2. PLACE ASPHALT SEALANT ALONG JOINT.
3. SAW CUT EXISTING ASPHALT PAVEMENT.
4. NEW TOP COURSE ASPHALT PAVEMENT.
5. NEW BASE COURSE.

counterpoint ENGINEERING
SCALE: 1:1.5

NOTES:
1. ALL EXCAVATED TRENCH MATERIAL TO BE DISPOSED OF OFF SITE.
2. THE PIPE BED IS TO BE CAREFULLY SHAPED TO RECEIVE THE BOTTOM OF THE PIPE.

counterpoint ENGINEERING
SCALE: 1:1.5

NOTES:
1. INFILTRATION TRENCH c/w PERFORATED PIPE TOP OF STONE 269.18 BOTTOM OF STONE 268.58 INFILTRATION VOLUME 54m³

counterpoint ENGINEERING
SCALE: 1:100

NOTES:
1. INFILTRATION TRENCH c/w PERFORATED PIPE TOP OF STONE 269.18 BOTTOM OF STONE 268.58 INFILTRATION VOLUME 54m³

counterpoint ENGINEERING
SCALE: 1:100

NOTES:
1. INFILTRATION TRENCH c/w PERFORATED PIPE TOP OF STONE 269.18 BOTTOM OF STONE 268.58 INFILTRATION VOLUME 54m³

counterpoint ENGINEERING
SCALE: 1:100

NO.	ISSUED	DATE
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Stamp:
Checked by: PM
Drawn by: PM
Project No: 24015
Date: 24-07-31

Sheet Title:
STANDARD DETAILS
Applicant:
YORK REGIONAL POLICE
47 DON HILLOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:

Drawing No:

GENERAL CONSTRUCTION NOTES

- ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT MUNICIPAL, AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL CONSTRUCTION SIGNING MUST CONFORM TO THE M.T.O. MANUAL OF "UNIFORM TRAFFIC CONTROL DEVICES".
- 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.
- THE CONTRACTOR SHALL OBTAIN ALL RELEVANT PERMITS.
- CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE MUNICIPALITY FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY.
- FOR BUILDING LOCATION SITE LAYOUT AND BOUNDARY INFORMATION REFER TO LANDSCAPE SITE PLAN.
- 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 UNDERGROUND 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.
- CONTRACTOR TO CONFIRM INVERT ELEVATION OF EXISTING SERVICES PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO ENGINEER.

WATERMANS NOTES

- ALL MATERIALS AND CONSTRUCTION METHODS MUST CONFORM TO THE CURRENT TOWN STANDARDS AND SPECIFICATIONS.
- 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.
- ALL WATERMANS AND/OR WATER SERVICES TO HAVE MINIMUM 1.7m COVER WITH A MINIMUM HORIZONTAL SEPARATION OF 1.2M FROM THEMSELVES AND ALL OTHER UTILITIES.
- 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.
- ALL CURB STOPS TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
- WATERMANS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30m ABOVE AND 0.50m UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
- ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
- 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 (Ø150mm) DOWN FROM UPPER SECTION AND WIRE INSERTED THROUGH THIS HOLE FOR PROTECTION.
- ALL SPLICES ARE TO BE DONE ABOVE GRADE OR USING A MOISTURE-PROOF SEAL.
- HYDRANTS AND VALVES SHALL BE PER OPSD 1105.01. 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.
- ALL SERVICE CONNECTION STUBS SHALL BE MARKED WITH 50 mm x 100 mm x 2.4 m STAKES, PAINTED BLUE FOR WATER.
- 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 CW STAINLESS STEEL RODS AND BRASS PIN.
- ALL BENDS AND TEES SHALL BE OPSD 1103.01 AND 1103.02 AND BLOCKED TO UNDISTURBED GROUND.
- WHERE THE TOWN APPROVES WATERMAIN CONSTRUCTION WITH LESS THAN THE ABOVE NOTED MINIMUM COVER, THE WATERMAIN SHALL BE INSULATED TO THE TOWN'S SATISFACTION.
- 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.

ROADS, DRIVEWAYS AND PARKING AREAS

- CURBS WITHIN THE SITE TO BE 150mm HIGH BARRIER TYPE AS PER OPSD 600.11-1, UNLESS OTHERWISE SPECIFIED.
- CONCRETE TOE WALLS PER OPSD 3120.100. WHERE HEIGHT EXCEEDS 0.6m INSTALL GUARD PER DETAIL ON THE ARCHITECTURAL SITE PLAN.
- ALL DRIVEWAYS SHALL BE SET BACK A MINIMUM OF 1.2 METRES FROM ABOVE GROUND SERVICES OR OTHER OBSTRUCTIONS.
- 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.
- 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

- ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO A.S.T.M. SPECIFICATIONS D-3034-77C WITH "LOCK-IN" RUBBER SEALING RING.
- ALL HOUSE SERVICES SHALL BE CONNECTED TO SEWER WITH TEES. PIPE: 125mm PVC, c/w 125 X 100 PVC WATERTIGHT CLEANOUT AT PROPERTY LINE.
- SERVICES SHALL BE EXTENDED 1.5 m INSIDE THE PROPERTY LINE AND PLUGGED.
- 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.
- ALL SEWER CONNECTIONS TO MANHOLES SHALL BE CONSTRUCTED BY MEANS OF A PVC MANHOLE ADAPTER.
- 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.
- MANHOLES SHALL BE TO STANDARD DRAWINGS OPSD 701.01 TO 701.08 (INCLUSIVE).
- ALL SANITARY MANHOLES SHALL BE BENCHED THROUGHOUT TO THE SPRING LINE, AS PER STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED.
- ALL SANITARY MANHOLES SHALL HAVE MONOLITHIC PRE-BENCHED BASES WITH PRE-MANUFACTURED CONNECTIONS.
- 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.
- SANITARY SEWER BEDDING SHALL BE TO STANDARD DRAWING OPSD 802.03. CLASS "B" (UNLESS OTHERWISE NOTED AND APPROVED).
- ALL LATERALS SHALL BE CONSTRUCTED ACCORDING TO STANDARD DRAWINGS OPSD 1006.01.

STORM SEWERS

- MAINTENANCE HOLES (MHs) TO BE PRECAST AS PER OPSD 701.01 AND BENCHED IN ACCORDANCE WITH CITY STANDARDS.
- STORM SEWERS UP TO AND INCLUDING 600mm DIAMETER SHALL BE HDPE WITH BEDDING AS PER OPSD 802.01. UNLESS OTHERWISE NOTED. CONCRETE PIPE LARGER THAN 600mm DIAMETER TO BE CLASS 100-D WITH CLASS 'B' BEDDING AS PER OPSD 802.03. ALL SEWER PIPE SHALL HAVE RUBBER GASKET JOINTS.
- SINGLE CATCHBASIN SHALL BE AS PER OPSD 705.010. CATCHBASIN LEADS TO BE 250mm DIAMETER, AT 2% UNLESS OTHERWISE NOTED.
- DOUBLE CATCHBASINS SHALL BE AS PER OPSD 705.020. LEADS TO BE 300mm DIAMETER AT 2% UNLESS OTHERWISE NOTED.
- TRENCH BACKFILL TO BE COMPACTED TO MINIMUM 98% SPMD IN THE LAST 0.6m TO THE SUBGRADE AND BELOW TO 95% SPMD. TRENCHES WITHIN THE PAVED AREA OF EXISTING PUBLIC ROADS SHALL BE VERTICAL TRENCHES AND BE BACKFILLED WITH NON-SHRINKABLE MATERIALS.
- CULVERTS TO BE CORRUGATED STEEL PIPE HAVING MINIMUM DIAMETER OF 300mm AND MINIMUM 1.6m THICKNESS. CULVERTS TO BE INSTALLED WITH MANUFACTURED END SECTIONS.
- ALL CONCRETE PIPE SHALL HAVE SEALED JOINTS WITH GASKETS AND PIPE CLASS AS SHOWN ON DRAWINGS.
- ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO ASTM SPEC. D-3034-C SDR-35 WITH "LOCK-IN" RUBBER SEALING RING.
- MANHOLES SHALL BE AS PER STANDARD DRAWINGS OPSD 701.01 TO 701.08 (INCLUSIVE).
- 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.
- SEWER BEDDING SHALL BE TO STANDARD DRAWING OPSD 802.03 CLASS "B" BEDDING OR AS APPROVED BY THE TOWN.
- ALL CATCHBASINS SHALL BE CONNECTED TO THE STORM SEWER BY TEES WHERE POSSIBLE. STANDARD DRAWINGS OPSD 700.01 AND 700.02.
- ALL STORM OUTFALLS THAT EMPTY INTO A DITCH OR WATERCOURSE MUST BLEND WITH THE FLOW OF SAME.
- ALL PVC JOINTS AT MANHOLES SHALL BE CONSTRUCTED BY MEANS OF A PVC MANHOLE ADAPTER.

TOWN OF EAST GWILLIMBURY GENERAL NOTES

- ALL SERVICES ARE TO BE TO THE TOWN OF EAST GWILLIMBURY ENGINEERING DEPARTMENT STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE TOWN.
- LOCATIONS OF EXISTING SERVICES IS NOT GUARANTEED. THE CONTRACTOR IS TO NOTIFY UTILITY COMPANIES FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
- FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE STANDARD DRAWINGS.
- 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.
- SEWER AND WATERMAIN TRENCHES SHALL BE BACKFILLED TO TOWN OF EAST GWILLIMBURY STANDARDS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- ALL STANDARD DRAWINGS SHALL BE PER O.P.S.D. (MOST RECENT REVISION) UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS SHALL BE IN METRES EXCEPT PIPE DIAMETER, WHICH IS IN MILLIMETRES, UNLESS OTHERWISE SPECIFIED.
- 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.
- PAVEMENT DESIGN: REFER TO THE GEOTECHNICAL REPORT RECOMMENDATIONS.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REINSTATED TO ORIGINAL OR BETTER CONDITION.
- SUB-DRAINS ARE TO BE INSTALLED THROUGHOUT UNLESS OTHERWISE APPROVED.
- NO MANHOLE COVERS WILL BE PERMITTED TO BE CONSTRUCTED IN ANY PART OF THE SIDEWALK.

SUPPLEMENTARY CONSTRUCTION NOTES

- SERVICE CONNECTIONS AND UTILITY CUTS MADE IN ROAD PAVEMENTS SHALL BE BACKFILLED WITH UNSHRINKABLE FILL.
- 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 100 mm OF TOPSOIL AND SHALL BE SODDED ACCORDING TO OPS8 803.
- 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.
- 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.
- 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.
- AT ALL LOCATIONS WHERE THE PROPOSED WATERMAIN CROSSES UNDER OR ABOVE THE EXISTING SEWER, 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.
- 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.
- 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 OPS8 538 & 539.
- ALL EXISTING WATERMANS AND SEWER PIPES LARGER THAN 300 mm DIAMETER SHALL BE SUPPORTED IN ACCORDANCE WITH MUNICIPAL STANDARDS.
- ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE ACCORDING TO ONTARIO TRAFFIC MANUAL THE CURRENT BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.

GRADING

- 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.
- 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 100mm OF TOPSOIL AND ACTIVELY GROWING NO. 1 NURSERY SOD. ALL BOULEVARDS TO BE SODDED.
- PROPOSED ELEVATION ALONG SITE PROPERTY LINES MUST MATCH EXISTING ELEVATION UNLESS INDICATED OTHERWISE ON THE SITE GRADING PLAN.
- ALL ENGINEERED FILL AND BACKFILLING OPERATIONS TO BE INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER.

FOR DETAILED SPECIFICATIONS REGARDING:
 - SITE STRIPPING
 - SITE GRADING
 - FILL PLACEMENT
 - ENGINEERED FILL
 - COMPACTION REQUIREMENTS
 - SEWER BEDDING
 - TRENCH BACKFILLING
 - PAVEMENT MAKE-UP
 REFERENCE IS TO BE MADE TO THE GEOTECHNICAL REPORT AND SPECIFICATIONS PREPARED FOR THIS PROJECT

PAVING NOTES

- 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 AND RECOMMENDATIONS.
- ALL PAVEMENT MARKING, LINE PAINTING, DIRECTIONAL LINES/ARROWS ETC. SHALL BE PLACED IN ACCORDANCE WITH THE ARCHITECTURAL SITE PLAN.

JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD PEAK DIVERSION RATE WITH PRECAST TOP FRAME IS SHOWN. ALTERNATE OFFLINE VALVE/TRENCH OR SHALLOW ORIENTATIONS ARE AVAILABLE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.

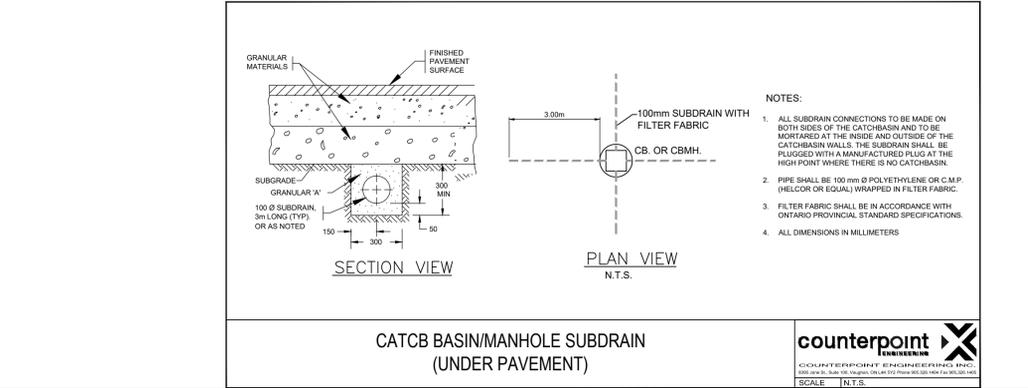
CARTRIDGE SELECTION	50"	40"	27"	10"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-0"	5'-4"	4'-3"	3'-3"
FLOW RATE PER 100' (MINIMUM CFS) (PER CART)	0.176 (0.880)	0.133 (0.667)	0.087 (0.436)	0.040 (0.200)
MAX. TREATMENT (CFS)	2.24	2.52	1.47	0.51
DECK TO INSIDE TOP (MIN) (B)	5.00	4.00	4.00	4.00

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	WATER QUALITY FLOW RATE (L/S)	PEAK FLOW RATE (L/S)	RETURN PERIOD OF PEAK FLOW (yrs)	# OF CARTRIDGES REQUIRED (HPT 300)	CARTRIDGE LENGTH
PIPE DATA	IE	MA1%	EA	SLOPE %	HSL
INLET #1	-	-	-	-	-
INLET #2	-	-	-	-	-
OUTLET	-	-	-	-	-

PER GENERAL NOTE 6.7 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS.

CONTECH
 9033 Centre Parkway, Suite 400, Aurora, ON L4R 4V9
 905-308-1122 905-445-9200 905-445-7863 FAX



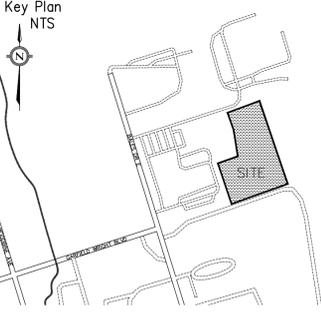
PARKIN

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



YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GWILLIMBURY



NO.	ISSUED FOR PERMIT	DATE
1.	ISSUED FOR PERMIT	24-07-31
2.	ISSUED FOR SPA	24-08-30
3.	ISSUED FOR TENDER	24-09-09
4.	TENDER ADDENDUM #3	24-09-23
5.	TENDER ADDENDUM #7	24-10-03

Issues

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

Sheet Title:
STANDARD NOTES
 Applicant:
YORK REGIONAL POLICE
 47 DON HILOCK DRIVE
 AURORA ONTARIO L4G0S7

Drawing Scale:

Drawing No:

C-402

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GENERAL CONSTRUCTION NOTES

- ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT MUNICIPAL, AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL CONSTRUCTION SIGNING MUST CONFORM TO THE M.T.O. MANUAL OF "UNIFORM TRAFFIC CONTROL DEVICES".
- 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.
- THE CONTRACTOR SHALL OBTAIN ALL RELEVANT PERMITS.
- CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE MUNICIPALITY FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY.
- FOR BUILDING LOCATION SITE LAYOUT AND BOUNDARY INFORMATION REFER TO LANDSCAPE SITE PLAN.
- 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 UNDERGROUND 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.
- CONTRACTOR TO CONFIRM INVERT ELEVATION OF EXISTING SERVICES PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO ENGINEER.

WATERMAINS NOTES

- ALL MATERIALS AND CONSTRUCTION METHODS MUST CONFORM TO THE CURRENT TOWN STANDARDS AND SPECIFICATIONS.
- 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.
- 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.
- 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. MN. ON A HYDRANT.
- ALL CURB STOPS TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
- WATERMAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30m ABOVE AND 0.50m UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
- ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
- 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 MANLINE VALVES AND HYDRANT SECONDARY VALVES, AND A HOLE DRILLED SIX INCHES (Ø150mm) DOWN FROM UPPER SECTION AND WIRE INSERTED THROUGH THIS HOLE FOR PROTECTION.
- ALL SPLICES ARE TO BE DONE ABOVE GRADE OR USING A MOISTURE-PROOF SEAL.
- HYDRANTS AND VALVES SHALL BE PER OPSD 1105.01. 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.
- ALL SERVICE CONNECTION STUBS SHALL BE MARKED WITH 50 mm x 100 mm x 2.4 m STAKES. PAINTED BLUE FOR WATER.
- 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 CW STAINLESS STEEL RODS AND BRASS PIN.
- ALL BENDS AND TEES SHALL BE OPSD 1103.01 AND 1103.02 AND BLOCKED TO UNDISTURBED GROUND.
- WHERE THE TOWN APPROVES WATERMAIN CONSTRUCTION WITH LESS THAN THE ABOVE NOTED MINIMUM COVER, THE WATERMAIN SHALL BE INSULATED TO THE TOWN'S SATISFACTION.
- 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.

ROADS, DRIVEWAYS AND PARKING AREAS

- CURBS WITHIN THE SITE TO BE 150mm HIGH BARRIER TYPE AS PER OPSD 600.11-1, UNLESS OTHERWISE SPECIFIED.
- CONCRETE TOE WALLS PER OPSD 3120.100. WHERE HEIGHT EXCEEDS 0.6m INSTALL GUARD PER DETAIL ON THE ARCHITECTURAL SITE PLAN.
- ALL DRIVEWAYS SHALL BE SET BACK A MINIMUM OF 1.2 METRES FROM ABOVE GROUND SERVICES OR OTHER OBSTRUCTIONS.
- 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.

SANITARY SEWERS

- ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO A.S.T.M. SPECIFICATIONS D-3034-77C WITH "LOCK-IN" RUBBER SEALING RING.
- ALL HOUSE SERVICES SHALL BE CONNECTED TO SEWER WITH TEES. PIPE, 125mm PVC, c/w 125 X 100 PVC WATERTIGHT CLEANOUT AT PROPERTY LINE.
- SERVICES SHALL BE EXTENDED 1.5 m INSIDE THE PROPERTY LINE AND PLUGGED.
- 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.
- ALL SEWER CONNECTIONS TO MANHOLES SHALL BE CONSTRUCTED BY MEANS OF A PVC MANHOLE ADAPTER.
- 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.
- MANHOLES SHALL BE TO STANDARD DRAWINGS OPSD 701.01 TO 701.08 (INCLUSIVE).
- ALL SANITARY MANHOLES SHALL BE BENCHED THROUGHOUT TO THE SPRING LINE, AS PER STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED.
- ALL SANITARY MANHOLES SHALL HAVE MONOLITHIC PRE-BENCHED BASES WITH PRE-MANUFACTURED CONNECTIONS.
- 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.
- SANITARY SEWER BEDDING SHALL BE TO STANDARD DRAWING OPSD 802.03, CLASS "B" (UNLESS OTHERWISE NOTED AND APPROVED).
- ALL LATERALS SHALL BE CONSTRUCTED ACCORDING TO STANDARD DRAWINGS OPSD 1006.01.

STORM SEWERS

- MAINTENANCE HOLES (MHs) TO BE PRECAST AS PER OPSD 701.01 AND BENCHED IN ACCORDANCE WITH CITY STANDARDS.
- STORM SEWERS UP TO AND INCLUDING 600mm DIAMETER SHALL BE HDPE WITH BEDDING AS PER OPSD 802.01, UNLESS OTHERWISE NOTED. CONCRETE PIPE LARGER THAN 600mm DIAMETER TO BE CLASS 100-D WITH CLASS 'B' BEDDING AS PER OPSD 802.03. ALL SEWER PIPE SHALL HAVE RUBBER GASKET JOINTS.
- SINGLE CATCHBASIN SHALL BE AS PER OPSD 705.010. CATCHBASIN LEADS TO BE 250mm DIAMETER, AT 2% UNLESS OTHERWISE NOTED.
- DOUBLE CATCHBASINS SHALL BE AS PER OPSD 705.020. LEADS TO BE 300mm DIAMETER AT 2% UNLESS OTHERWISE NOTED.
- TRENCH BACKFILL TO BE COMPACTED TO MINIMUM 98% SPMD IN THE LAST 0.6m TO THE SUBGRADE AND BELOW TO 95% SPMD. TRENCHES WITHIN THE PAVED AREA OF EXISTING PUBLIC ROADS SHALL BE VERTICAL TRENCHES AND BE BACKFILLED WITH NON-SHRINKABLE MATERIALS.
- CULVERTS TO BE CORRUGATED STEEL PIPE HAVING MINIMUM DIAMETER OF 300mm AND MINIMUM 1.6mm THICKNESS. CULVERTS TO BE INSTALLED WITH MANUFACTURED END SECTIONS.
- ALL CONCRETE PIPE SHALL HAVE SEALED JOINTS WITH GASKETS AND PIPE CLASS AS SHOWN ON DRAWINGS.
- ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO ASTM SPEC. D-3034-C SDR-35 WITH "LOCK-IN" RUBBER SEALING RING.
- MANHOLES SHALL BE AS PER STANDARD DRAWINGS OPSD 701.01 TO 701.08 (INCLUSIVE).
- 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.
- SEWER BEDDING SHALL BE TO STANDARD DRAWING OPSD 802.03 CLASS "B" BEDDING OR AS APPROVED BY THE TOWN.
- ALL CATCHBASINS SHALL BE CONNECTED TO THE STORM SEWER BY TEES WHERE POSSIBLE. STANDARD DRAWINGS OPSD 700.01 AND 700.02.
- ALL STORM OUTFALLS THAT EMPTY INTO A DITCH OR WATERCOURSE MUST BLEND WITH THE FLOW OF SAME.
- ALL PVC JOINTS AT MANHOLES SHALL BE CONSTRUCTED BY MEANS OF A PVC MANHOLE ADAPTER.

TOWN OF EAST GWILLIMBURY GENERAL NOTES

- ALL SERVICES ARE TO BE TO THE TOWN OF EAST GWILLIMBURY ENGINEERING DEPARTMENT STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE TOWN.
- LOCATIONS OF EXISTING SERVICES IS NOT GUARANTEED. THE CONTRACTOR IS TO NOTIFY UTILITY COMPANIES FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
- FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE STANDARD DRAWINGS.
- 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.
- SEWER AND WATERMAIN TRENCHES SHALL BE BACKFILLED TO TOWN OF EAST GWILLIMBURY STANDARDS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- ALL STANDARD DRAWINGS SHALL BE PER O.P.S.D. (MOST RECENT REVISION) UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS SHALL BE IN METRES EXCEPT PIPE DIAMETER, WHICH IS IN MILLIMETRES, UNLESS OTHERWISE SPECIFIED.
- 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.
- PAVEMENT DESIGN REFER TO THE GEOTECHNICAL REPORT RECOMMENDATIONS.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REINSTATED TO ORIGINAL OR BETTER CONDITION.
- SUB-DRAINS ARE TO BE INSTALLED THROUGHOUT UNLESS OTHERWISE APPROVED.
- NO MANHOLE COVERS WILL BE PERMITTED TO BE CONSTRUCTED IN ANY PART OF THE SIDEWALK.

SUPPLEMENTARY CONSTRUCTION NOTES

- SERVICE CONNECTIONS AND UTILITY CUTS MADE IN ROAD PAVEMENTS SHALL BE BACKFILLED WITH UNSHRINKABLE FILL.
- 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 100 mm OF TOPSOIL AND SHALL BE SODDED ACCORDING TO OPS8 803.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 OPS8 538 & 539.
- ALL EXISTING WATERMAINS AND SEWER PIPES LARGER THAN 300 mm DIAMETER SHALL BE SUPPORTED IN ACCORDANCE WITH MUNICIPAL STANDARDS.
- ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE ACCORDING TO ONTARIO TRAFFIC MANUAL THE CURRENT BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.

GRADING

- 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.
 - 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 100mm OF TOPSOIL AND ACTIVELY GROWING NO. 1 NURSERY SOD. ALL BOULEVARDS TO BE SODDED.
 - PROPOSED ELEVATION ALONG SITE PROPERTY LINES MUST MATCH EXISTING ELEVATION.
 - ALL ENGINEERED FILL AND BACKFILLING OPERATIONS TO BE INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER.
- FOR DETAILED SPECIFICATIONS REGARDING:
- SITE STRIPPING
 - SITE GRADING
 - FILL PLACEMENT
 - ENGINEERED FILL
 - COMPACTION REQUIREMENTS
 - SEWER BEDDING
 - TRENCH BACKFILLING
 - PAVEMENT MAKE-UP
- REFERENCE IS TO BE MADE TO THE GEOTECHNICAL REPORT AND SPECIFICATIONS PREPARED FOR THIS PROJECT

PAVING NOTES

- 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 AND RECOMMENDATIONS.
- ALL PAVEMENT MARKING, LINE PAINTING, DIRECTIONAL LINES/ARROWS ETC. SHALL BE PLACED IN ACCORDANCE WITH THE ARCHITECTURAL SITE PLAN.

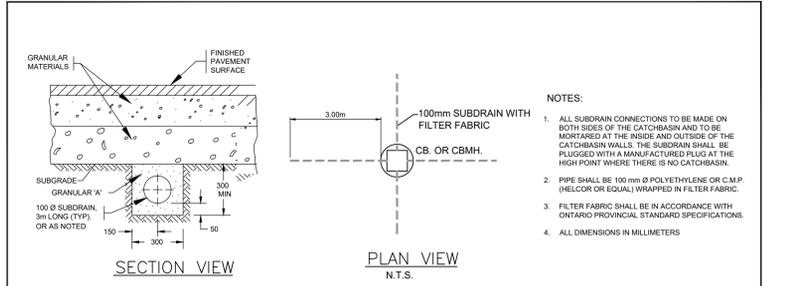
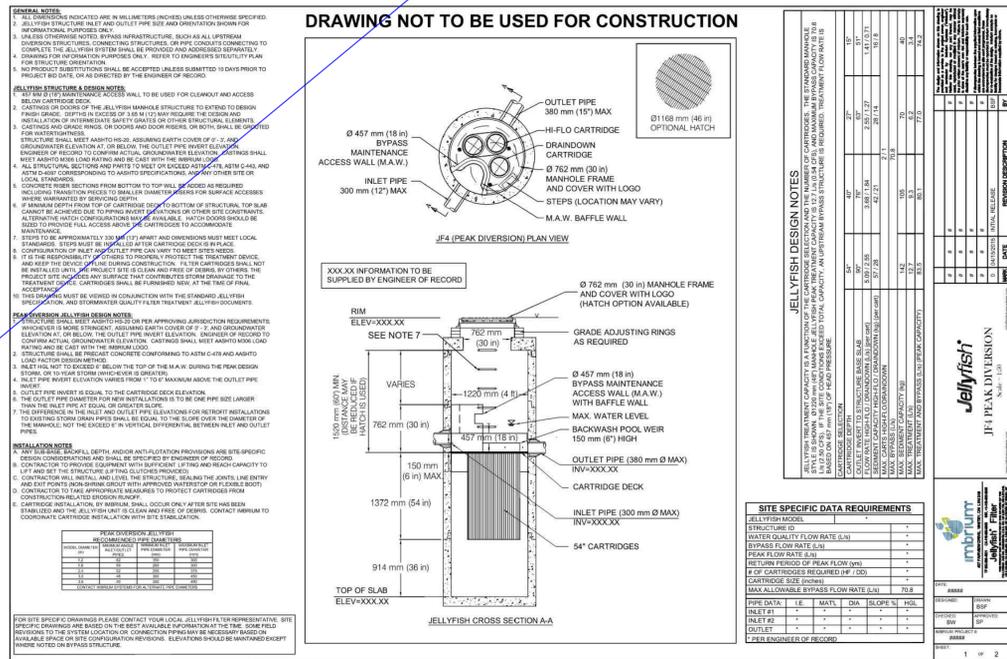
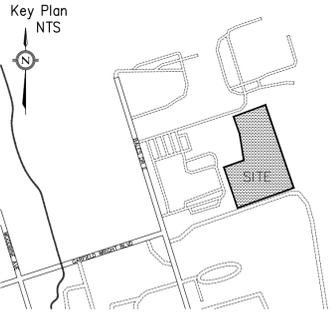
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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY



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Sheet Title:
STANDARD NOTES

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

Drawing Scale:

Drawing No:

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GENERAL CONSTRUCTION NOTES

- ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT MUNICIPAL, AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL CONSTRUCTION SIGNING MUST CONFORM TO THE M.T.O. MANUAL OF "UNIFORM TRAFFIC CONTROL DEVICES".
- 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.
- THE CONTRACTOR SHALL OBTAIN ALL RELEVANT PERMITS.
- CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE MUNICIPALITY FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY.
- FOR BUILDING LOCATION SITE LAYOUT AND BOUNDARY INFORMATION REFER TO LANDSCAPE SITE PLAN.
- 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 UNDERGROUND 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.
- CONTRACTOR TO CONFIRM INVERT ELEVATION OF EXISTING SERVICES PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO ENGINEER.

WATERMAINS NOTES

- ALL MATERIALS AND CONSTRUCTION METHODS MUST CONFORM TO THE CURRENT TOWN STANDARDS AND SPECIFICATIONS.
- 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.
- 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.
- 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. MN. ON A HYDRANT.
- ALL CURB STOPS TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
- WATERMAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30m ABOVE AND 0.50m UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
- ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
- 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 MANLINE VALVES AND HYDRANT SECONDARY VALVES, AND A HOLE DRILLED SIX INCHES (Ø150mm) DOWN FROM UPPER SECTION AND WIRE INSERTED THROUGH THIS HOLE FOR PROTECTION.
- ALL SPLICES ARE TO BE DONE ABOVE GRADE OR USING A MOISTURE-PROOF SEAL.
- HYDRANTS AND VALVES SHALL BE PER OPSD 1105.01. 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.
- ALL SERVICE CONNECTION STUBS SHALL BE MARKED WITH 50 mm x 100 mm x 2.4 m STAKES. PAINTED BLUE FOR WATER.
- 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 CW STAINLESS STEEL RODS AND BRASS PIN.
- ALL BENDS AND TEES SHALL BE OPSD 1103.01 AND 1103.02 AND BLOCKED TO UNDISTURBED GROUND.
- WHERE THE TOWN APPROVES WATERMAIN CONSTRUCTION WITH LESS THAN THE ABOVE NOTED MINIMUM COVER, THE WATERMAIN SHALL BE INSULATED TO THE TOWN'S SATISFACTION.
- 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.

ROADS, DRIVEWAYS AND PARKING AREAS

- CURBS WITHIN THE SITE TO BE 150mm HIGH BARRIER TYPE AS PER OPSD 600.11-1, UNLESS OTHERWISE SPECIFIED.
- CONCRETE TOE WALLS PER OPSD 3120.100. WHERE HEIGHT EXCEEDS 0.6m INSTALL GUARD PER DETAIL ON THE ARCHITECTURAL SITE PLAN.
- ALL DRIVEWAYS SHALL BE SET BACK A MINIMUM OF 1.2 METRES FROM ABOVE GROUND SERVICES OR OTHER OBSTRUCTIONS.
- 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.

SANITARY SEWERS

- ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO A.S.T.M. SPECIFICATIONS D-3034-77C WITH "LOCK-IN" RUBBER SEALING RING.
- ALL HOUSE SERVICES SHALL BE CONNECTED TO SEWER WITH TEES. PIPE, 125mm PVC, c/w 125 X 100 PVC WATERTIGHT CLEANOUT AT PROPERTY LINE.
- SERVICES SHALL BE EXTENDED 1.5 m INSIDE THE PROPERTY LINE AND PLUGGED.
- 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.
- ALL SEWER CONNECTIONS TO MANHOLES SHALL BE CONSTRUCTED BY MEANS OF A PVC MANHOLE ADAPTER.
- 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.
- MANHOLES SHALL BE TO STANDARD DRAWINGS OPSD 701.01 TO 701.08 (INCLUSIVE).
- ALL SANITARY MANHOLES SHALL BE BENCHED THROUGHOUT TO THE SPRING LINE, AS PER STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED.
- ALL SANITARY MANHOLES SHALL HAVE MONOLITHIC PRE-BENCHED BASES WITH PRE-MANUFACTURED CONNECTIONS.
- 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.
- SANITARY SEWER BEDDING SHALL BE TO STANDARD DRAWING OPSD 802.03, CLASS "B" (UNLESS OTHERWISE NOTED AND APPROVED).
- ALL LATERALS SHALL BE CONSTRUCTED ACCORDING TO STANDARD DRAWINGS OPSD 1006.01.

STORM SEWERS

- MAINTENANCE HOLES (MHs) TO BE PRECAST AS PER OPSD 701.01 AND BENCHED IN ACCORDANCE WITH CITY STANDARDS.
- STORM SEWERS UP TO AND INCLUDING 600mm DIAMETER SHALL BE HDPE WITH BEDDING AS PER OPSD 802.01, UNLESS OTHERWISE NOTED. CONCRETE PIPE LARGER THAN 600mm DIAMETER TO BE CLASS 100-D WITH CLASS 'B' BEDDING AS PER OPSD 802.03. ALL SEWER PIPE SHALL HAVE RUBBER GASKET JOINTS.
- SINGLE CATCHBASIN SHALL BE AS PER OPSD 705.010. CATCHBASIN LEADS TO BE 250mm DIAMETER, AT 2% UNLESS OTHERWISE NOTED.
- DOUBLE CATCHBASIN SHALL BE AS PER OPSD 705.020. LEADS TO BE 300mm DIAMETER AT 2% UNLESS OTHERWISE NOTED.
- TRENCH BACKFILL TO BE COMPACTED TO MINIMUM 98% SPMD IN THE LAST 0.6m TO THE SUBGRADE AND BELOW TO 95% SPMD. TRENCHES WITHIN THE PAVED AREA OF EXISTING PUBLIC ROADS SHALL BE VERTICAL TRENCHES AND BE BACKFILLED WITH NON-SHRINKABLE MATERIALS.
- CULVERTS TO BE CORRUGATED STEEL PIPE HAVING MINIMUM DIAMETER OF 300mm AND MINIMUM 1.6mm THICKNESS. CULVERTS TO BE INSTALLED WITH MANUFACTURED END SECTIONS.
- ALL CONCRETE PIPE SHALL HAVE SEALED JOINTS WITH GASKETS AND PIPE CLASS AS SHOWN ON DRAWINGS.
- ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO ASTM SPEC. D-3034-C SDR-35 WITH "LOCK-IN" RUBBER SEALING RING.
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- LIGHT DUTY AND HEAVY DUTY PAVEMENT TO BE CONSTRUCTED AS PER GEOTECHNICAL REPORT AND RECOMMENDATIONS.
- ALL PAVEMENT MARKING, LINE PAINTING, DIRECTIONAL LINES/ARROWS ETC. SHALL BE PLACED IN ACCORDANCE WITH THE ARCHITECTURAL SITE PLAN.
- MINIMUM PAVEMENT REQUIREMENTS FOR ROADWAYS (HEAVY DUTY PAVEMENT/FIRE ROUTE) ARE AS FOLLOWS:
40mm SP12.5 B
60mm SP19.0 B
150mm GRANULAR A
200mm GRANULAR B

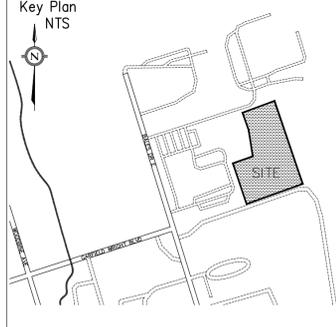
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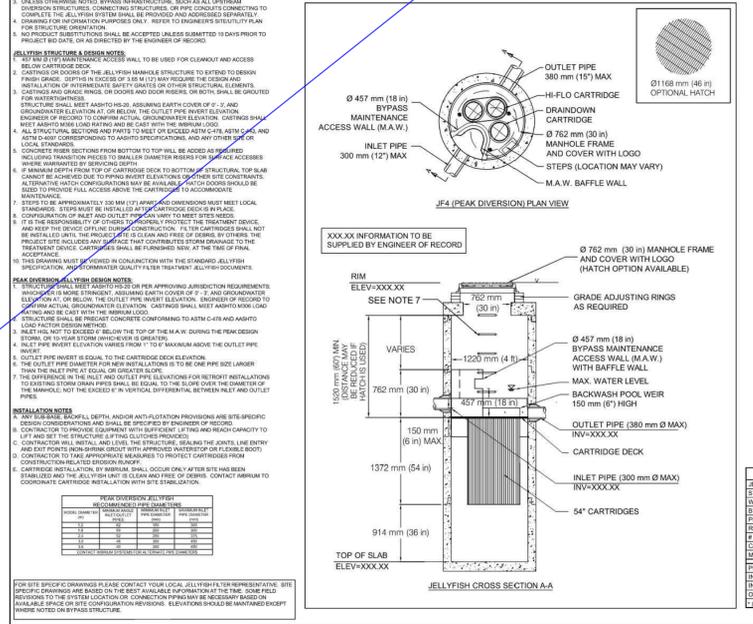


YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY



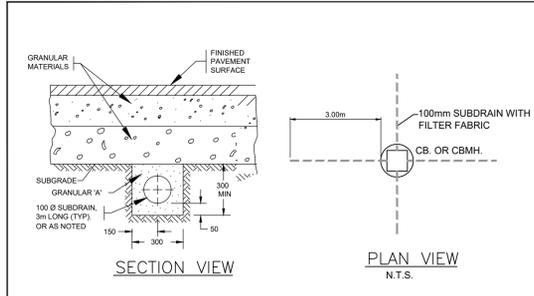
DRAWING NOT TO BE USED FOR CONSTRUCTION



JELLYFISH DESIGN NOTES

CONTRACTOR TO VERIFY DESIGN FOR APPROVED JURISDICTION REQUIREMENTS. DIMENSIONS TO BE MORE STRINGENT ASSUMING EARTH COVER OF 0.75 AND ORIENTATION EITHER HORIZONTAL OR VERTICAL. THE OUTLET PIPE INVERT ELEVATION, DIRECTION OF RECORD TO BE MAINTAINED TO 150mm. THE INLET PIPE SHALL BE 150mm ABOVE THE INLET AND AND BE CAST WITH THE MANHOLE LOG.

ITEM	DESCRIPTION	UNIT	QTY
1	JELLYFISH STRUCTURE	NO.	1
2	INLET PIPE (300mm Ø MAX)	M	1.0
3	OUTLET PIPE (380mm Ø MAX)	M	1.0
4	MANHOLE FRAME AND COVER WITH LOGO	NO.	1
5	54" CARTRIDGES	NO.	1
6	BACKWASH POOL WEIR	NO.	1
7	GRADE ADJUSTING RINGS AS REQUIRED	NO.	1
8	BYPASS MAINTENANCE ACCESS WALL (M.A.W.) WITH BATTLE WALL	NO.	1
9	MAX. WATER LEVEL	NO.	1
10	150mm (6") HIGH	NO.	1
11	150mm (6") HIGH	NO.	1
12	150mm (6") HIGH	NO.	1
13	150mm (6") HIGH	NO.	1
14	150mm (6") HIGH	NO.	1
15	150mm (6") HIGH	NO.	1
16	150mm (6") HIGH	NO.	1
17	150mm (6") HIGH	NO.	1
18	150mm (6") HIGH	NO.	1
19	150mm (6") HIGH	NO.	1
20	150mm (6") HIGH	NO.	1
21	150mm (6") HIGH	NO.	1
22	150mm (6") HIGH	NO.	1
23	150mm (6") HIGH	NO.	1
24	150mm (6") HIGH	NO.	1
25	150mm (6") HIGH	NO.	1
26	150mm (6") HIGH	NO.	1
27	150mm (6") HIGH	NO.	1
28	150mm (6") HIGH	NO.	1
29	150mm (6") HIGH	NO.	1
30	150mm (6") HIGH	NO.	1
31	150mm (6") HIGH	NO.	1
32	150mm (6") HIGH	NO.	1
33	150mm (6") HIGH	NO.	1
34	150mm (6") HIGH	NO.	1
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36	150mm (6") HIGH	NO.	1
37	150mm (6") HIGH	NO.	1
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40	150mm (6") HIGH	NO.	1
41	150mm (6") HIGH	NO.	1
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80	150mm (6") HIGH	NO.	1
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93	150mm (6") HIGH	NO.	1
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95	150mm (6") HIGH	NO.	1
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97	150mm (6") HIGH	NO.	1
98	150mm (6") HIGH	NO.	1
99	150mm (6") HIGH	NO.	1
100	150mm (6") HIGH	NO.	1



CATCB BASIN/MANHOLE SUBDRAIN (UNDER PAVEMENT)



SCALE: N.T.S.

NO.	ISSUED FOR	DATE
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

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

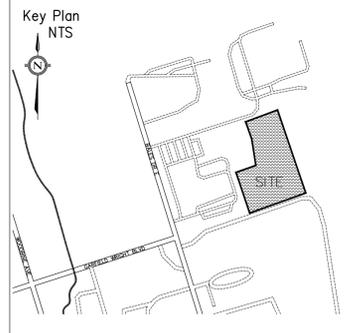
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STANDARD NOTES
Applicant:
YORK REGIONAL POLICE
47 DON HILLOCK DRIVE
AURORA ONTARIO L4G0S7

Drawing Scale:
Drawing No:

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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GWILLIMBURY



LEGEND

- EXISTING CONTOUR
- EXISTING HYDRANT
- EMERGENCY OVERLAND FLOW
- LAYFIELD SEDIMENT TRAP AS PER DETAIL ON THIS SHEET
- SEDIMENT CONTROL FENCE AS PER DETAIL ON THIS SHEET
- PROPERTY LINE
- MUD MAT

NO.	ISSUED	DATE
6.	TENDER ADDENDUM #14	24-11-27
5.	TENDER ADDENDUM #7	24-10-03
4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

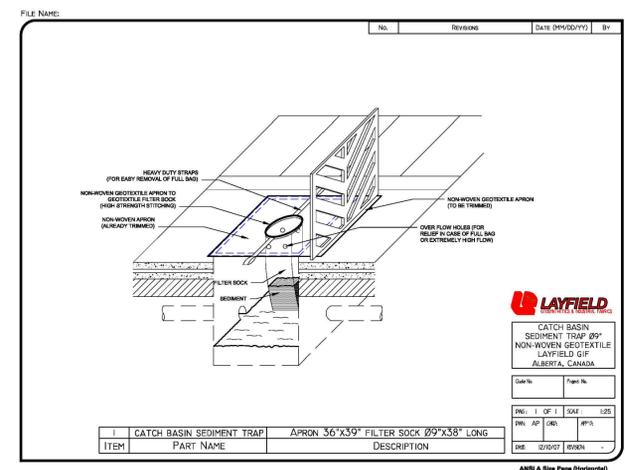
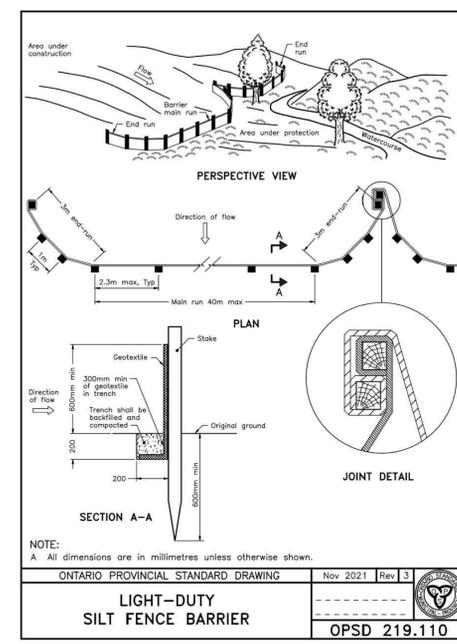
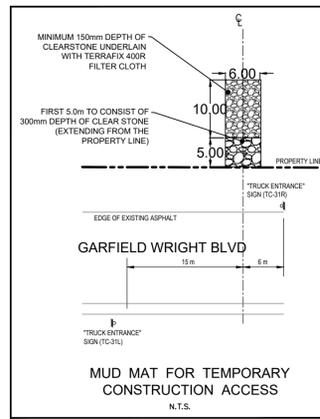
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 Project No: 24015
 Date: 24-07-31

Sheet Title:
SEDIMENT CONTROL PLAN

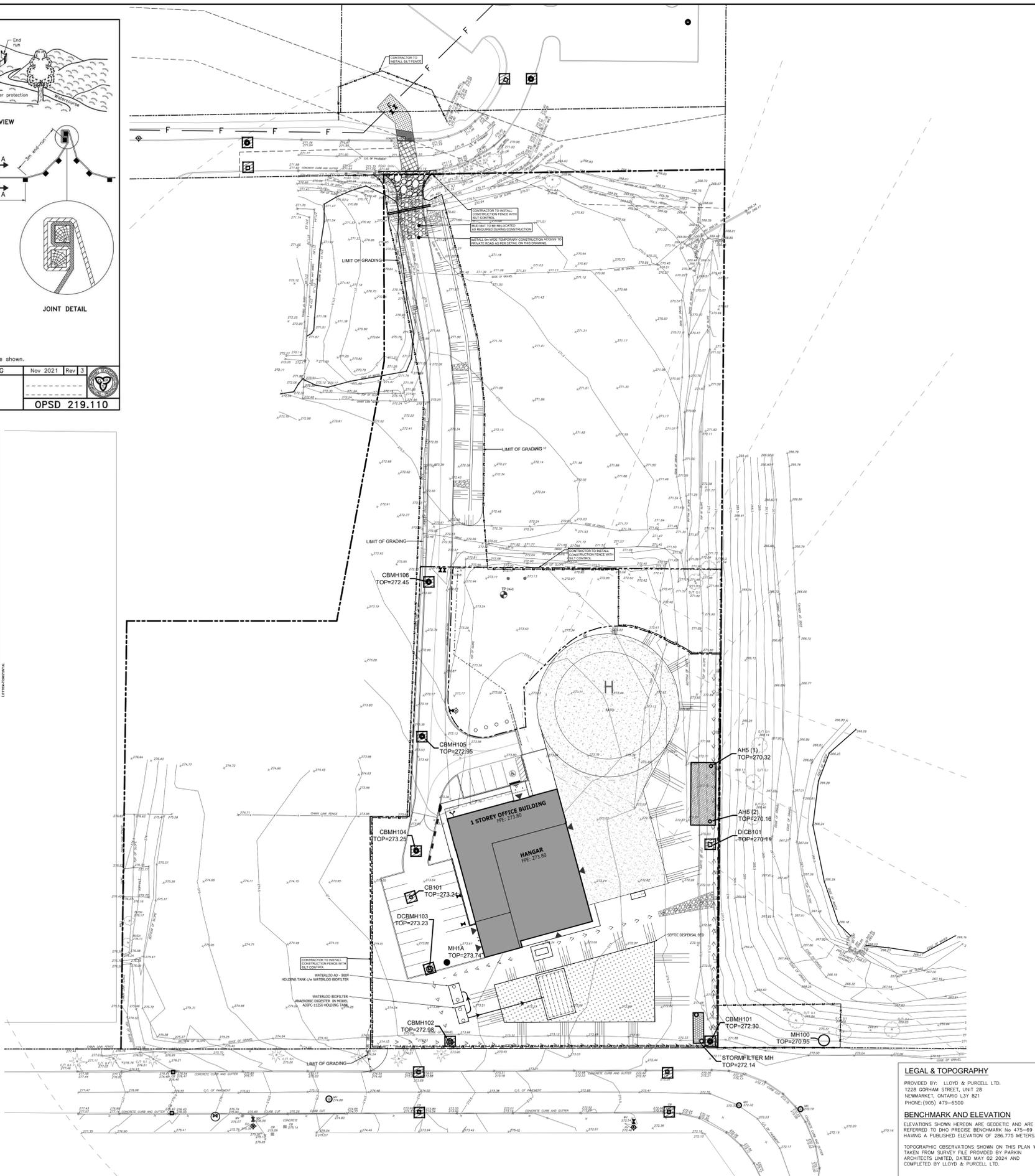
Applicant:
YORK REGIONAL POLICE
 47 DON HILOCK DRIVE
 AURORA ONTARIO L4G0S7

Drawing Scale:

Drawing No:
C-501



- EROSION AND SEDIMENT CONTROL MEASURE NOTES**
- SEDIMENT BARRIERS AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED.
 - IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
 - THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.
 - ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON-SITE.
 - ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH TOWN OF EAST GWILLIMBURY NOISE BY-LAW.
 - SEDIMENT CONTROL FENCE TO BE AS PER OPSD 219.110.
 - ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT SITE FROM TEMPORARY CONSTRUCTION ACCESS.
 - ALL TOPSOIL OR MATERIAL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.
 - FILTER CLOTH WILL BE PLACED ON THE CATCHBASINS ON (PUBLIC STREET) ACROSS THE PROPERTY'S FRONTAGE.
 - 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 TERRA FIX 270R OR APPROVED EQUIVALENT.
 - 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.
 - ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING THE MUNICIPAL ROADWAY CLEAN AND WILL WASH AND SWEEP THE ROADWAY AS REQUIRED.
 - MUD MATS TO BE RELOCATED/CONSTRUCTED TO THE ENTRANCES WHERE CONSTRUCTION VEHICLES ARE PERMITTED.
 - 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
 - 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.
 - 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.
 - 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.



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 NEWMARKET, ONTARIO L3Y 8Z1
 PHONE: (905) 479-6500

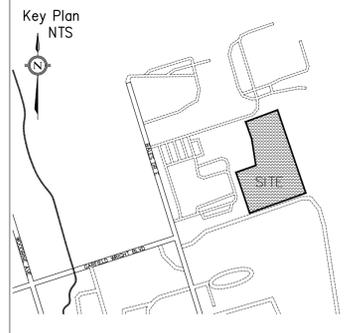
BENCHMARK AND ELEVATION
 ELEVATIONS SHOWN HEREIN ARE GEODETIC AND ARE REFERRED TO DHD PRECISE BENCHMARK No 470-69 HAVING A PUBLISHED ELEVATION OF 286.775 METERS.

TOPOGRAPHIC OBSERVATIONS SHOWN ON THIS PLAN WERE TAKEN FROM SURVEY FILE PROVIDED BY PARKIN ARCHITECTS LIMITED, DATED MAY 02 2024 AND COMPLETED BY LLOYD & PURCELL LTD.

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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GWILLIMBURY



LEGEND

- EXISTING CONTOUR
- EXISTING HYDRANT
- EMERGENCY OVERLAND FLOW
- LAYFIELD SEDIMENT TRAP AS PER DETAIL ON THIS SHEET
- SEDIMENT CONTROL FENCE AS PER DETAIL ON THIS SHEET
- PROPERTY LINE
- MUD MAT

NO.	ISSUED	DATE
5.	TENDER ADDENDUM #7	24-10-03
4.	TENDER ADDENDUM #3	24-09-23
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
	ISSUED	DATE

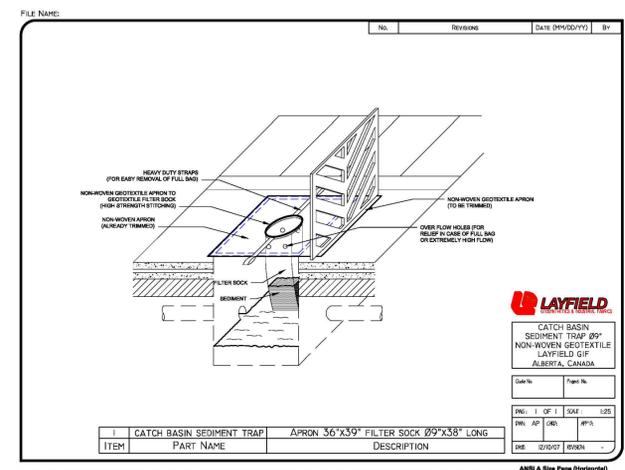
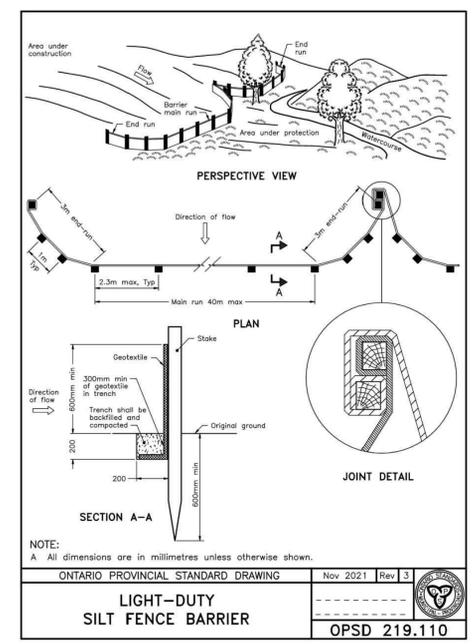
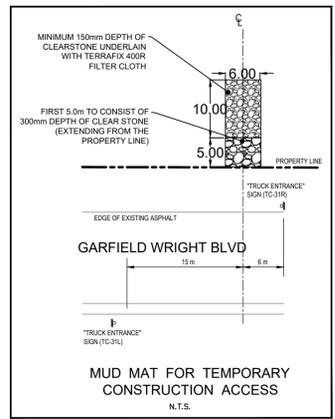
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 Project No: 24015
 Date: 24-07-31

Sheet Title:
SEDIMENT CONTROL PLAN

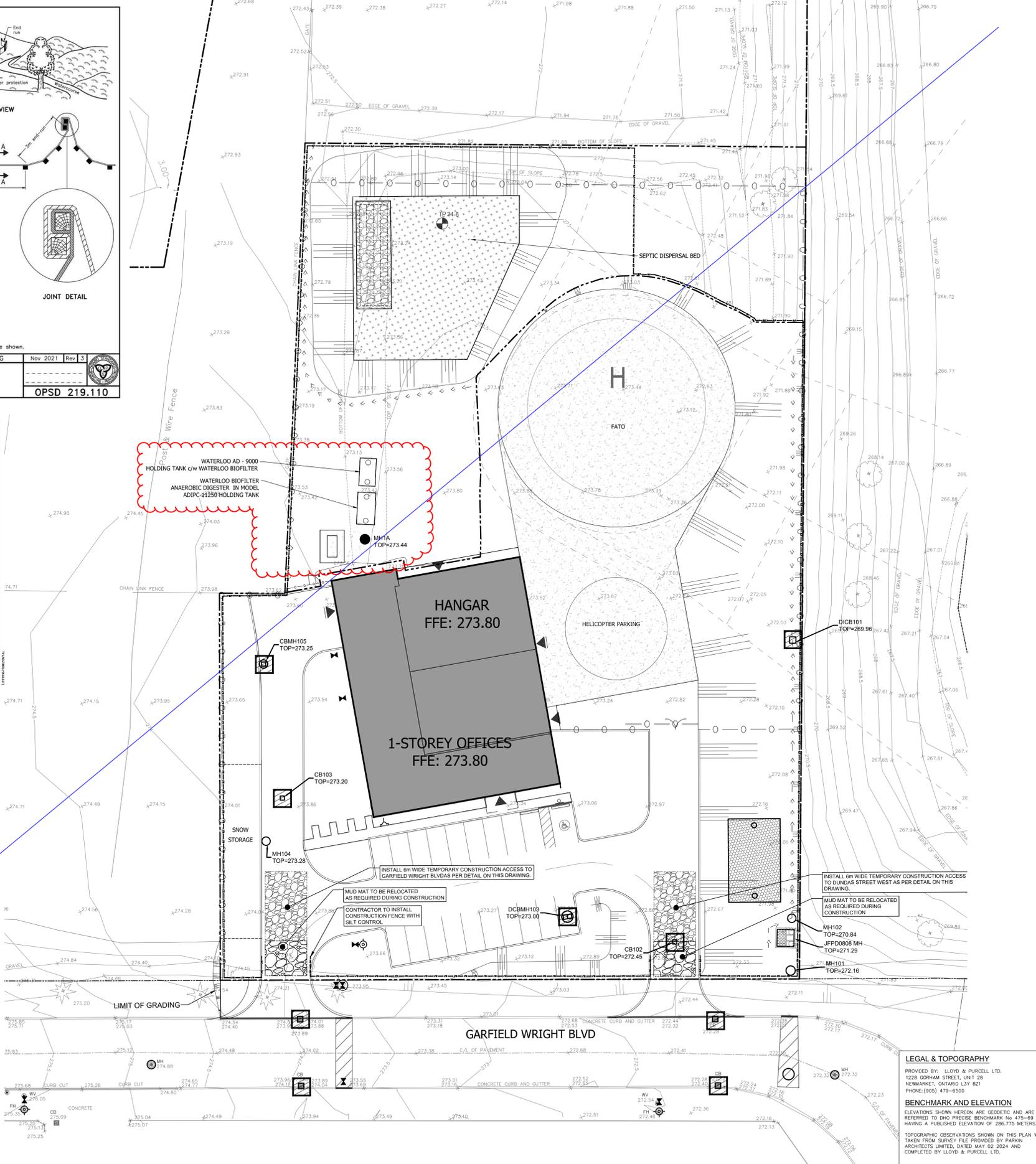
Applicant:
YORK REGIONAL POLICE
 47 DON HILOCK DRIVE
 AURORA ONTARIO L4G0S7

Drawing Scale:

Drawing No:
C-501



- EROSION AND SEDIMENT CONTROL MEASURE NOTES**
- SEDIMENT BARRIERS AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED.
 - IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
 - THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.
 - ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON-SITE.
 - ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH TOWN OF EAST GWILLIMBURY NOISE BY-LAW.
 - SEDIMENT CONTROL FENCE TO BE AS PER OPSD 219.110.
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 - ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING THE MUNICIPAL ROADWAY CLEAN AND WILL WASH AND SWEEP THE ROADWAY AS REQUIRED.
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 - 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.
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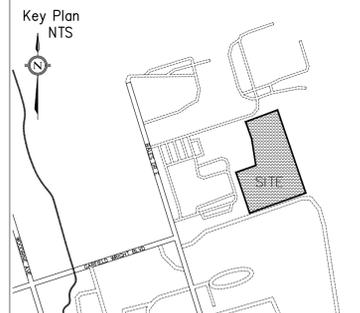
BENCHMARK AND ELEVATION
 ELEVATIONS SHOWN HEREIN ARE GEODETIC AND ARE REFERRED TO THE PRECISE BENCHMARK No 476-69 HAVING A PUBLISHED ELEVATION OF 286.775 METERS.

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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GUILMBURY



LEGEND

- EXISTING CONTOUR
- EXISTING HYDRANT
- EMERGENCY OVERLAND FLOW
- LAYFIELD SEDIMENT TRAP AS PER DETAIL ON THIS SHEET
- SEDIMENT CONTROL FENCE AS PER DETAIL ON THIS SHEET
- PROPERTY LINE
- MUD MAT

NO.	ISSUED	DATE
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

Issues

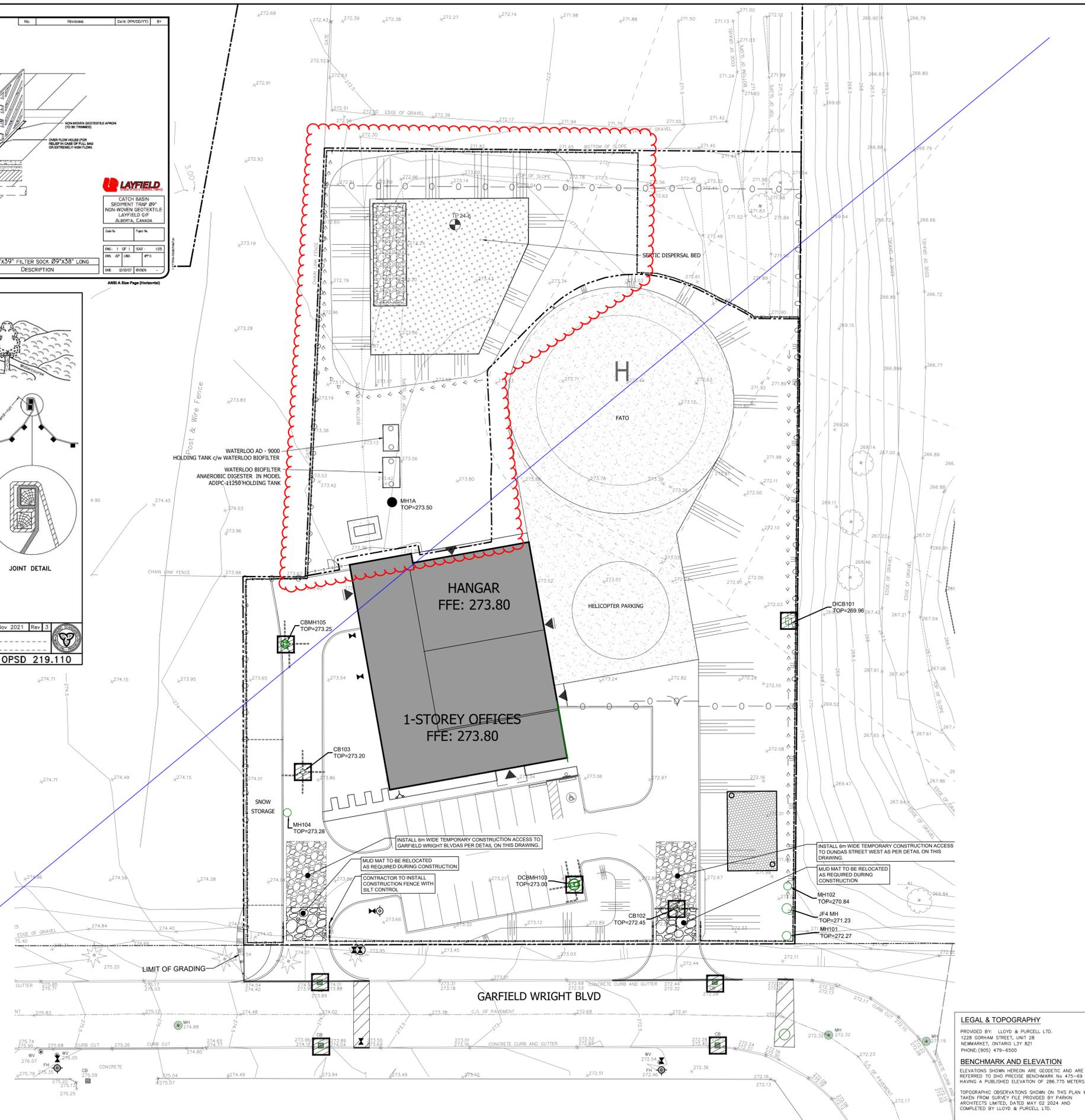
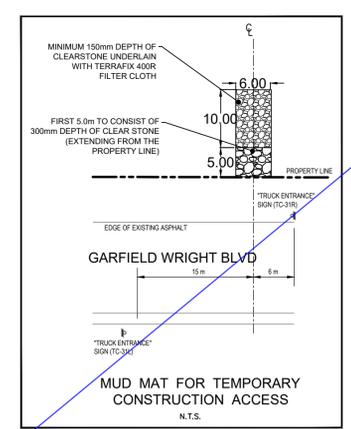
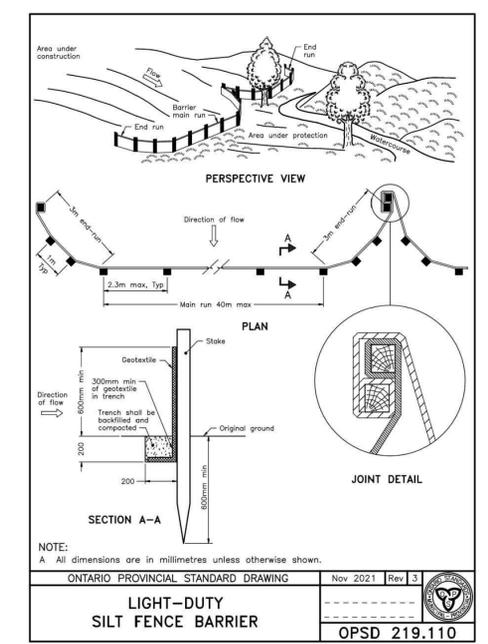
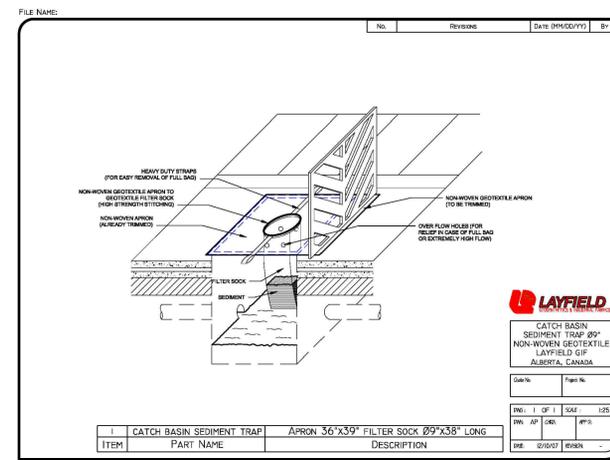
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Drawn by: PM
Project No: 24015
Date: 24-07-31

Sheet Title:
SEDIMENT CONTROL PLAN

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

Drawing Scale:
1:300

Drawing No:
C-501

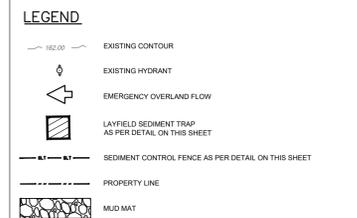
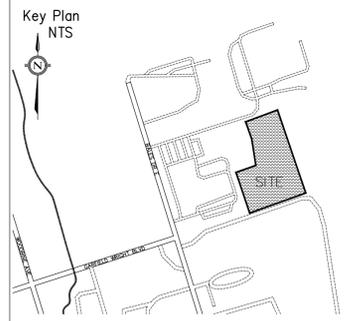


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PROVIDED BY: LLOYD & PURCELL LTD.
1208 CORHAM STREET, UNIT 28
NEWMARKET, ONTARIO L3Y 8Z1
PHONE: (905) 479-6500
BENCHMARK AND ELEVATION
ELEVATIONS SHOWN HEREIN ARE GEODETIC AND ARE REFERRED TO THE PRECISE BENCHMARK No 475-69 HAVING A PUBLISHED ELEVATION OF 286.775 METERS.
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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
 TOWN OF EAST GUILMBURY



NO.	ISSUED	DATE
3.	ISSUED FOR TENDER	24-09-09
2.	ISSUED FOR SPA	24-08-30
1.	ISSUED FOR PERMIT	24-07-31
NO.	ISSUED	DATE

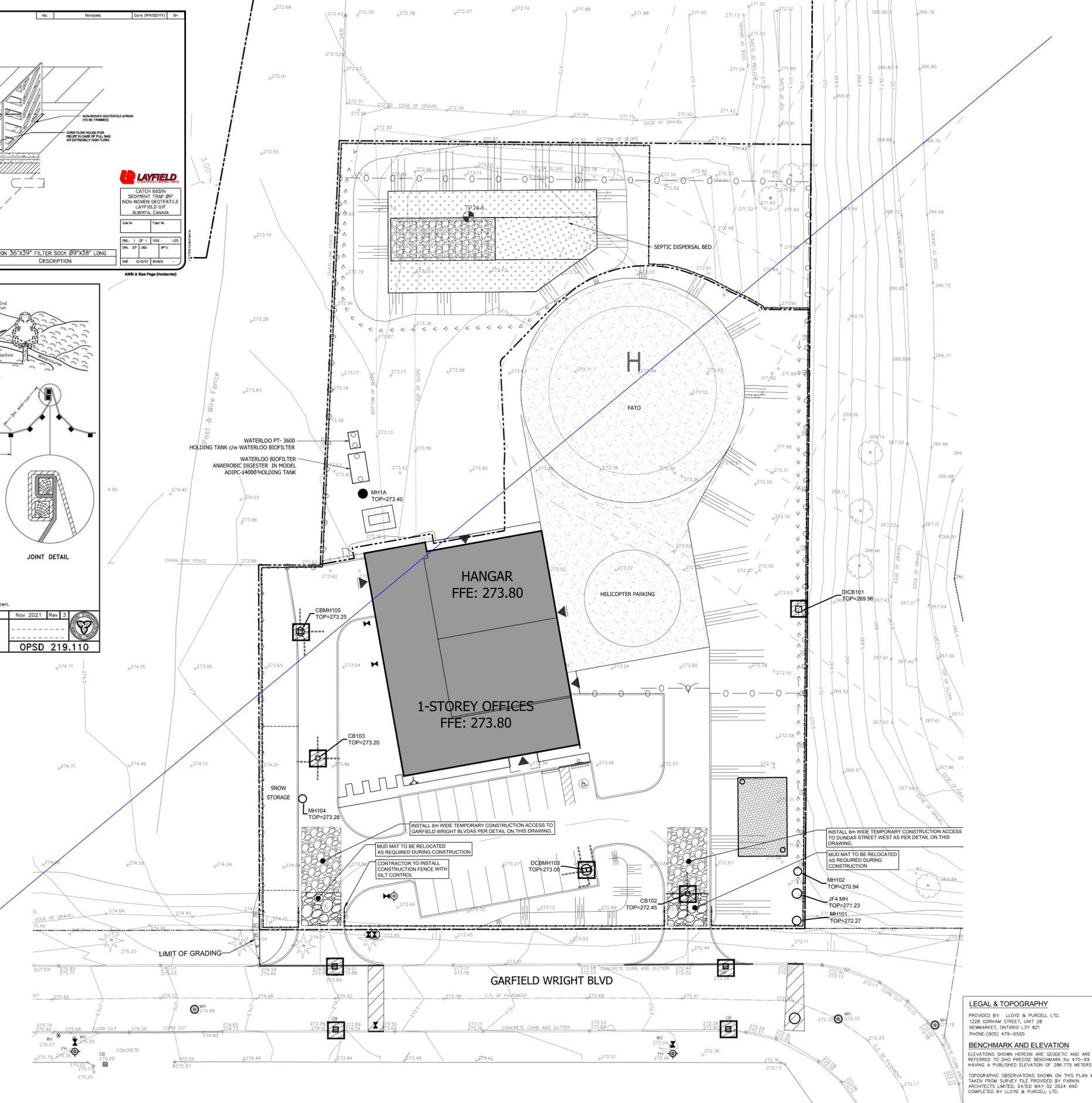
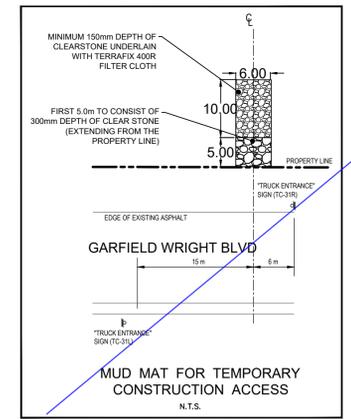
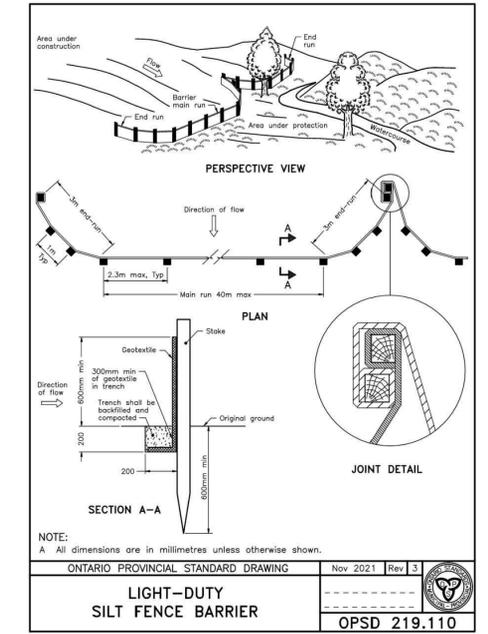
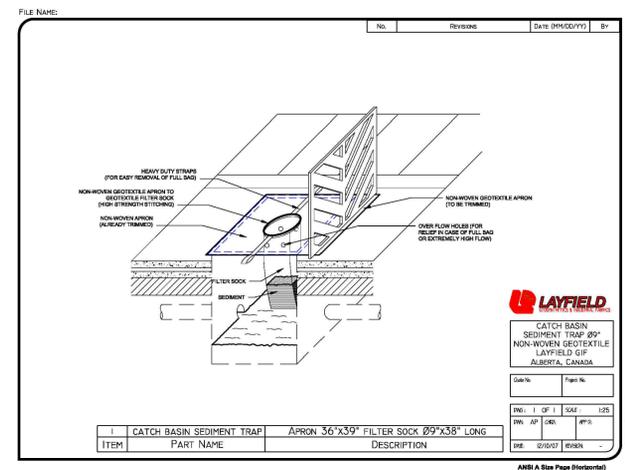
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Sheet Title:
SEDIMENT CONTROL PLAN

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

Drawing Scale:

Drawing No:
C-501



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 NEWMARKET, ONTARIO L3Y 8Z1
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