

GENERAL NOTES:

- PRIOR TO STARTING AND WORKS, CONTRACTOR MUST ENSURE THAT ALL NECESSARY APPROVALS ARE IN PLACE FROM TOWNSHIP OF SOUTHGATE, AND ALL OTHER EXTERNAL AGENCIES, AS REQUIRED.
- THE OWNER IS TO SUBMIT THE NAME OF THE SERVING CONTRACTOR TO THE TOWNSHIP FOR REVIEW AND APPROVAL.
- CONTRACTOR TO SUBMIT TO TOWNSHIP PROOF OF INSURANCE AND WSB CERTIFICATION.
- CONTRACTOR TO SUBMIT A TRAFFIC CONTROL PLAN, CONSISTENT WITH OTM BOOK 7, TO THE TOWNSHIP FOR REVIEW AND APPROVAL.
- ALL WORKS SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATION OF TOWNSHIP OF SOUTHGATE, OPSD/OPSS, AND MOCC.
- FOR ALL CONSTRUCTION DETAILS NOT SHOWN ON THE DRAWING, REFERENCE SHALL BE MADE TO THE DESIGN STANDARDS OF TOWNSHIP OF SOUTHGATE.
- ALL RESTORATIONS AND RELOCATION SHALL BE COMPLETED TO THE SATISFACTION OF THE DIRECTOR OF THE ENGINEER AND TOWNSHIP OF SOUTHGATE. ALL AREAS WITHIN THE PUBLIC RIGHT-OF-WAYS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. GRASSED AREA MUST BE PROVIDED WITH 200mm TOPSOIL AND SODDED FROM PROPERTY TO BACK OF CURB AND TO THE SATISFACTION OF THE DIRECTOR OF ENGINEERING.
- THE LOCATION OF THE UTILITIES IS APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY CONSULTING THE CONCERNED UTILITY COMPANIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE DURING CONSTRUCTION.
- ALL DIMENSION, ELEVATIONS, AND OTHER INFORMATION SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES FOUND MUST BE REPORTED IMMEDIATELY TO THE ENGINEER PRIOR TO CONSTRUCTION.
- UTILITY SUBMISSIONS TO THE TOWNSHIP ARE REQUIRED FOR ALL NEW UTILITIES, ALONG WITH SIGN-OFFS OBTAINED FROM PUBLIC WORKS BEFORE PROCEEDING WITH ANY UTILITY INSTALLATIONS.
- ALL FILL WITHIN THE SITE TO BE COMPACTED TO A MINIMUM 98% SPDD. THE SUITABILITY OF ALL FILL MATERIAL TO BE CONFIRMED BY A RECOGNIZED SOILS CONSULTANT.
- THE CONTRACTOR SHALL ENDEAVOUR TO PREVENT MUD TRACKING ONTO EXISTING ROADS AND SHALL PROVIDE FOR CLEANUP AT HIS EXPENSE AS DIRECTED BY THE TOWNSHIP. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DUST CONTROL ON SITE AND SHALL PROVIDE CONTROLLING MEASURES AS DIRECTED BY THE TOWNSHIP.
- THE DEVELOPER TO PROVIDE THE TOWNSHIP WITH ADVANCED NOTIFICATION OF THE CONTRACTOR THAT WILL BE RETAINED TO CONSTRUCT THE WORKS WITHIN THE ROAD ALLOWANCE FOR APPROVAL. CONTRACTOR TO SUBMIT PROOF OF INSURANCE AND A WSB CLEARANCE CERTIFICATE PRIOR TO CONSTRUCTION.
- 48 HOURS NOTICE TO BE GIVEN TO THE TOWNSHIP PUBLIC WORKS BEFORE ANY CONSTRUCTION OCCURS WITHIN THE ROAD ALLOWANCE.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING REQUIREMENTS SHALL APPLY TO THE WORKS.

SEWER AND PIPE BEDDING

- SANITARY SEWER BEDDING SHALL BE AS PER OPSD-802.010 FOR FLEXIBLE PIPES.
- SANITARY SEWER BEDDING IN WATER BEARING SAND AND SILT (WET TRENCH CONDITION) SHALL BE CONSIST OF 14.6 STONE BEDDING OR 20mm CRUSHER - RUN LESTONE WRAPPED IN FILTER CLOTH AS DETAILED IN DRAWING No. 1201-MP11 THE NECESSITY FOR IMPLEMENTING THESE MEASURES CAN BE ASSESSED AT THE TIME OF THE TRENCH EXCAVATION BY THE GEOTECHNICAL ENGINEER.
- ALL SERVICES AND STRUCTURES LOCATED IN TRENCH CUT SHALL BE SUPPORTED BY THE COMPACTED GRANULAR TO UNDISTURBED OR STRUCTURALLY COMPACTED GROUND.
- CCIV INSPECTION OF NEW SANITARY SERVICES REQUIRED AT 3 MILESTONES WITH COPIES TO THE TOWNSHIP.

(SAN):

- SANITARY MAIN PIPE SHALL BE 200mm PVC SDR 35 AND COMPLY WITH CSA B182.2
- SANITARY SERVICE LATERALS TO EACH LOT SHALL BE 100mm PVC SDR28 @ 2% MIN GRADE.
- WHERE COVER IS LESS THAN 1.7M, SANITARY LATERALS AND SANITARY MAIN TO BE INSULATED BY 100MM EXTRUDED POLYSTYRENE (EG SM BOARD), 1.2m IN WIDTH, CENTERED OVER LATERAL, AND 150mm IN ELEVATION ABOVE LATERAL.

STORM:

- CATCH BASIN LEAD SHALL BE 250mm PVC SDR 35 AND COMPLY WITH IPEX ULTRA-RB
- LATERALS TO EACH LOT SHALL BE 100mm HDPE BOSS POLY-TITE OR EQUIVALENT

EROSION & SEDIMENT CONTROL :

- INSTALL SEDIMENT FENCE AROUND THE SITE LIMIT - TERRAFIX 360R OR EQUIVALENT AS PER OPSD 219.110.
- SEDIMENT FENCE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY GRADING, EXCAVATION OR BRUSH REMOVAL.
- SEDIMENT FENCE TO PREVENT SILT FLOWING ONTO ADJACANT LANDS, AND TO BE KEPT IN GOOD REPAIR UNTIL FINAL GRADING COMPLETE WITH GRASS COVER.
- INSTALL SEDIMENT TRAPS, PROTECTION ON EXISTING STREET CATCHBASINS.
- INSTALL CUT-OFF SWALE ALONG SITE PERIMETER.
- CLEAR ALL EXISTING TREES WITHIN SITE LIMITS.
- STRIP TOPSOIL AND REMOVE OFF-SITE. NO TOPSOIL STOCKPILING ON SITE.
- RIP-RAP TO BE INSTALLED WITH GEOTEXTILE CONSISTENT WITH OPSD 810.010. RIAP GRADATION TO BE R-50 AS PER OPSS MUNI 1004 TABLE B.

PAVEMENT DESIGN :

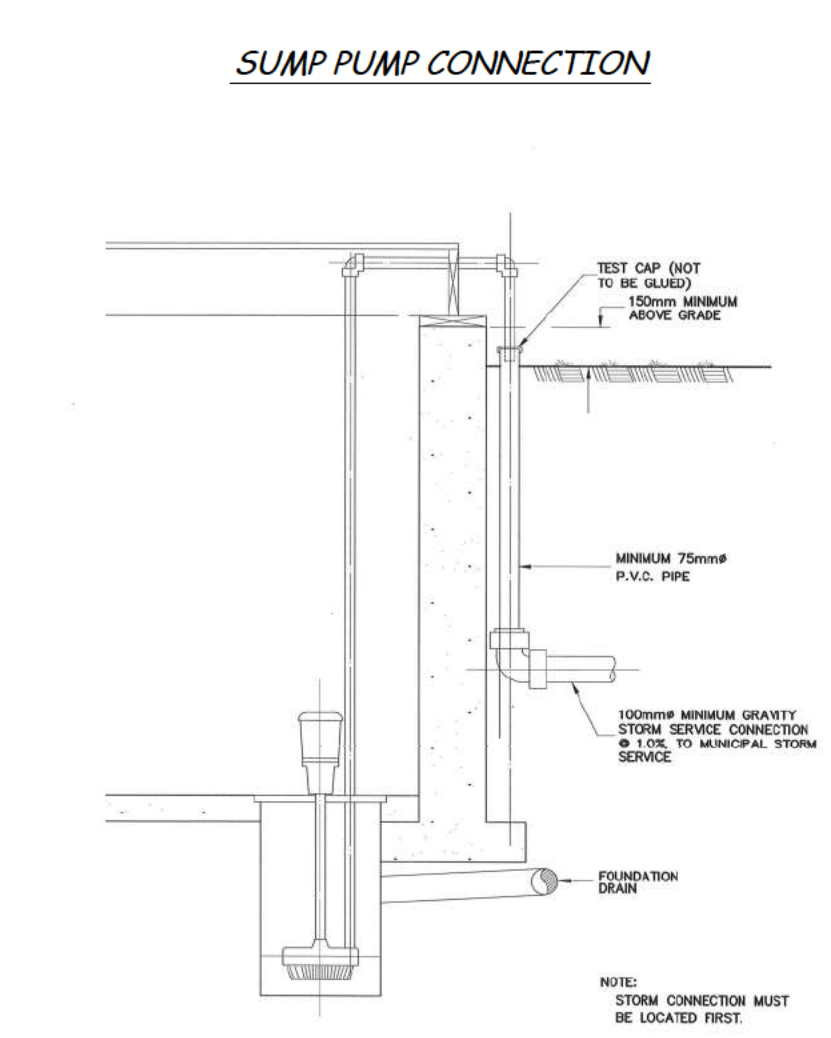
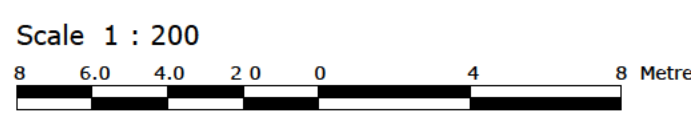
- RESIDENTIAL ROADWAY**
 - 450 mm - COMPACTED DEPTH (GRAN "B")
 - 150 mm - COMPACTED DEPTH (GRAN "A")
 - 75 mm - COMPACTED DEPTH HL-4 ASPHALT
- DRIVEWAY RAMPS**
 - 150 mm - COMPACTED DEPTH (GRAN "B")
 - 150 mm - COMPACTED DEPTH (GRAN "A")
 - 50 mm - COMPACTED DEPTH HL-3
- SITE PREPARATION, COMPACTED AND TRANSITION FROM EXISTING PORTION OF GOLD STREET TO NEW TO BE AS FOLLOWS:
 - IN GENERAL, AND UPON APPROVAL BY GEOTECHNICAL CONSULTANT, SUBGRADE OF APPROVED FILL MATERIAL SHALL BE COMPACTED TO DRY DENSITY NOT LESS THAN 100% OF THE STANDARD PROCTOR DENSITY DOWN TO 1.0 M BELOW GRADE. COMPACTIONS BELOW 1.0 M SHALL BE COMPACTED TO 98% PROCTOR DENSITY. COMPACTOR SOIL DENSITY TESTS SHALL BE CONDUCTED TO ENSURE ADEQUATE COMPACTATION AND STABILITY OF THE FILL AND TEST RESULTS SHALL BE SUBMITTED BY A GEOTECHNICAL ENGINEER. ALL TOPSOIL AND ORGANIC MATERIAL WITHIN THE ROAD ALLOWANCE SHALL BE STRIPPED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - HL 4 ASPHALT PAVEMENT SHALL BE COMPACTED TO 97% MARSHAL DENSITY (100% SPDD). SPDD DENOTES STANDARD PROCTOR MAXIMUM DRY DENSITY, ASTM-D698
 - MINIMUM 500mm WIDE MILLED ASPHALT UP JOINTS ARE REQUIRED.

WATERMANS & SERVICES:

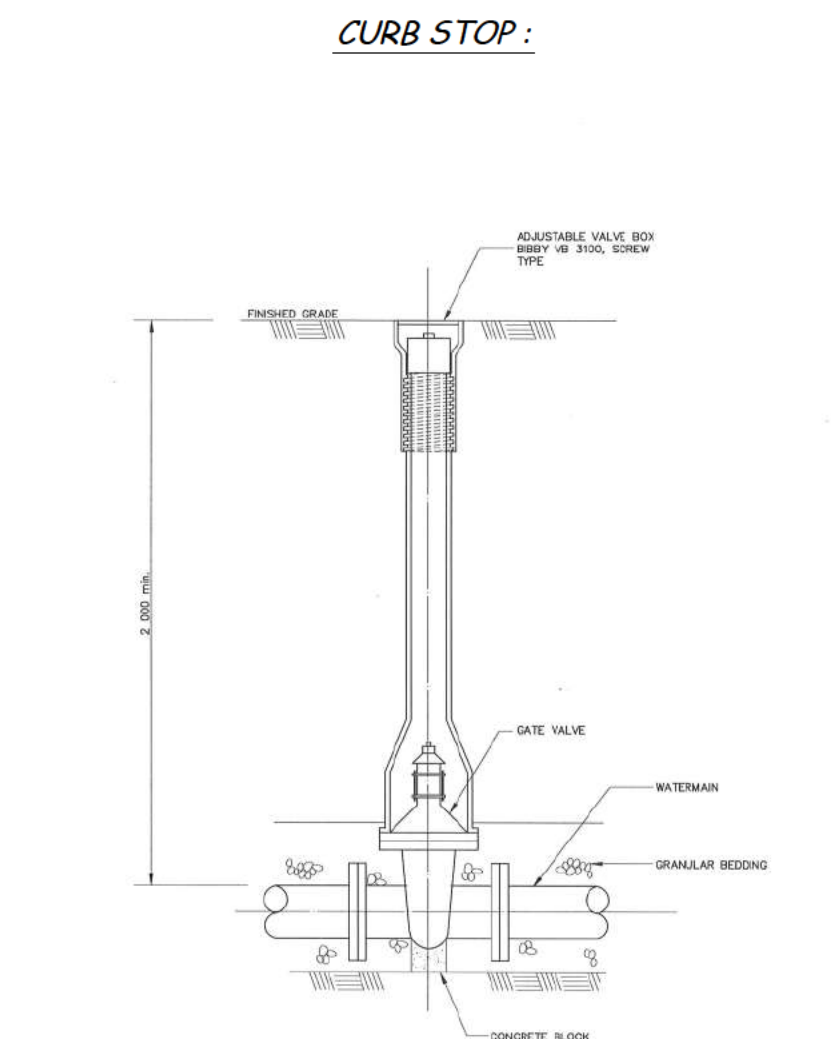
- ALL EXIST (Ø) UNITS WITHIN PROPOSED DEVELOPMENT TO BE SERVICED WITH TOWN WATER.
- CURB STOP C/W INTEGRAL STAINLESS STEEL CHECK VALVE AT EACH NEW CONNECTION (Ø) TO BE CONSISTENT WITH DETAIL.
- ALL WATERMANS AND SERVICES TO BE INSTALLED WITH TRACER WIRE AS PER TOWNSHIP STANDARDS.
- WATER SERVICES TO BE 25# "BLEU 90" (SERIES160) CONFORMING TO CSA B137.5 WITH A COPPER TUBE CO.
- 75# PVC SLEEVES ARE REQUIRED F CURB STOPS LOCATED IN DRIVEWAYS.
- NEW CURB STOPS (Ø) AND SERVICE SADDLES (Ø) ARE PER TOWNSHIP APPROVED LIST.

CURBS AND SIDEWALKS:

- CURBS ARE TO BE CONSTRUCTED AS PER OPSD 600.041, AND TERMINATED AS PER OPSD 600.010, EXCEPT AT RAMP WHERE CURB TO TRANSITION TO SELF-MOUNTABLE STYLE (OPSD 600.060).
- SIDEWALK TO BE EXTENDED ON NORTH SIDE OF GOLD STREET. MINIMUM 100mm GRAN "A" BASE AND 125mm CONCRETE THICKNESS, EXCEPT 200mm THICKNESS AT DRIVEWAYS



TOWNSHIP OF SOUTHGATE	DATE: OCTOBER, 2021	REV: 1
SUMP PUMP TO STORM SEWER CONNECTION	STD. S3	



TOWNSHIP OF SOUTHGATE	DATE: APRIL, 2001	REV: 0
VALVE AND VALVE BOX	STD. W2	

- MANHOLES :**
- PROPOSED SAN MANHOLE 1200mm, CONSISTENT WITH OPSD 701.010 WITH APPROVED "KOR-N-SEAL" PIPE ADAPTORS.
 - MANHOLE COMPONENTS CRISERS, FLAT CAP, FRAME & COVER CONSISTENT WITH OPSD 701.030, & 401.010 (TYPE A).
 - ALL MANHOLE LIDS ARE TO BE SELF-LEVELLING (EAST JORDAN IRON WORKS, PROD. 00302202 OR BIBBY STE CRD0)

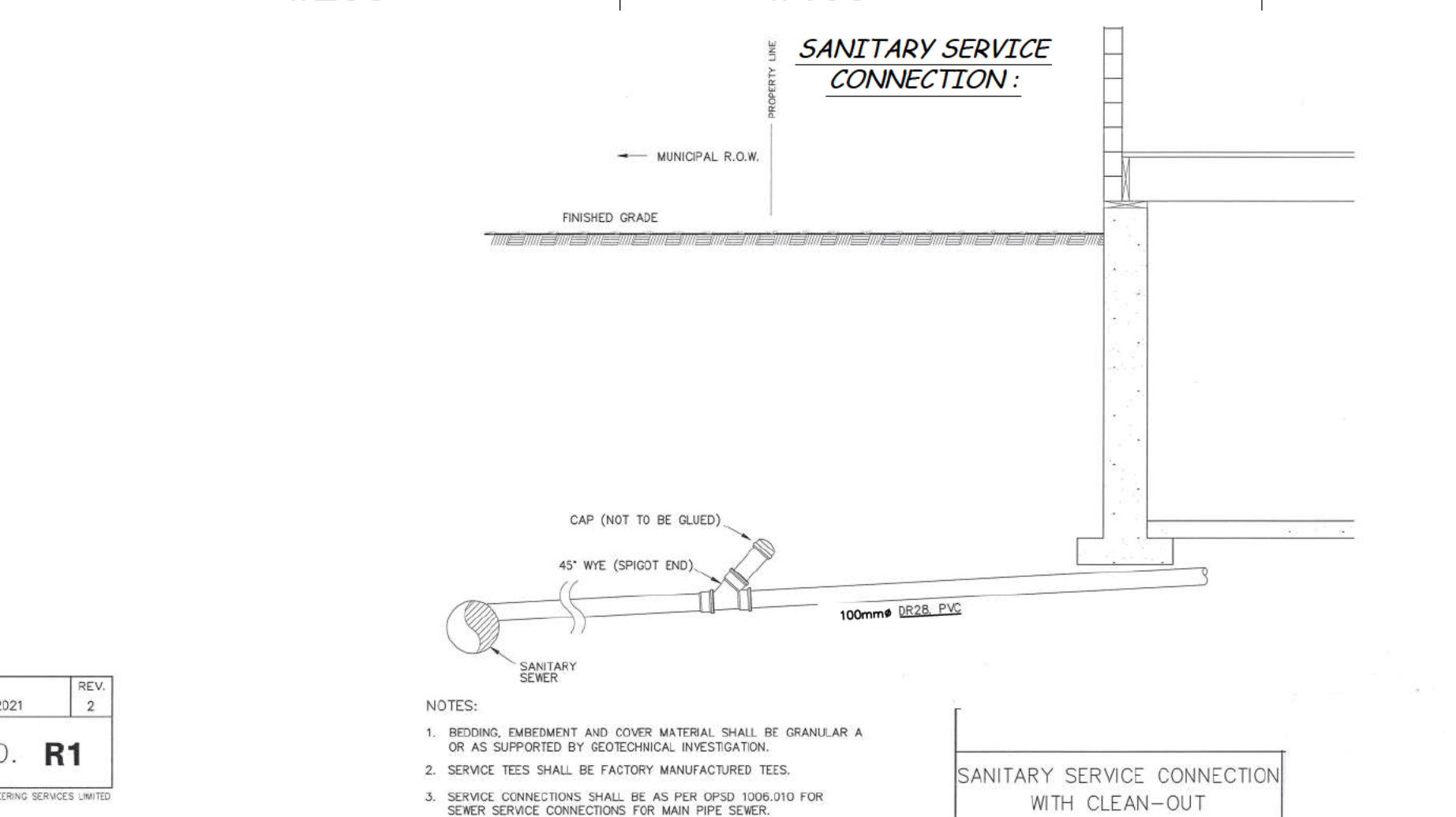
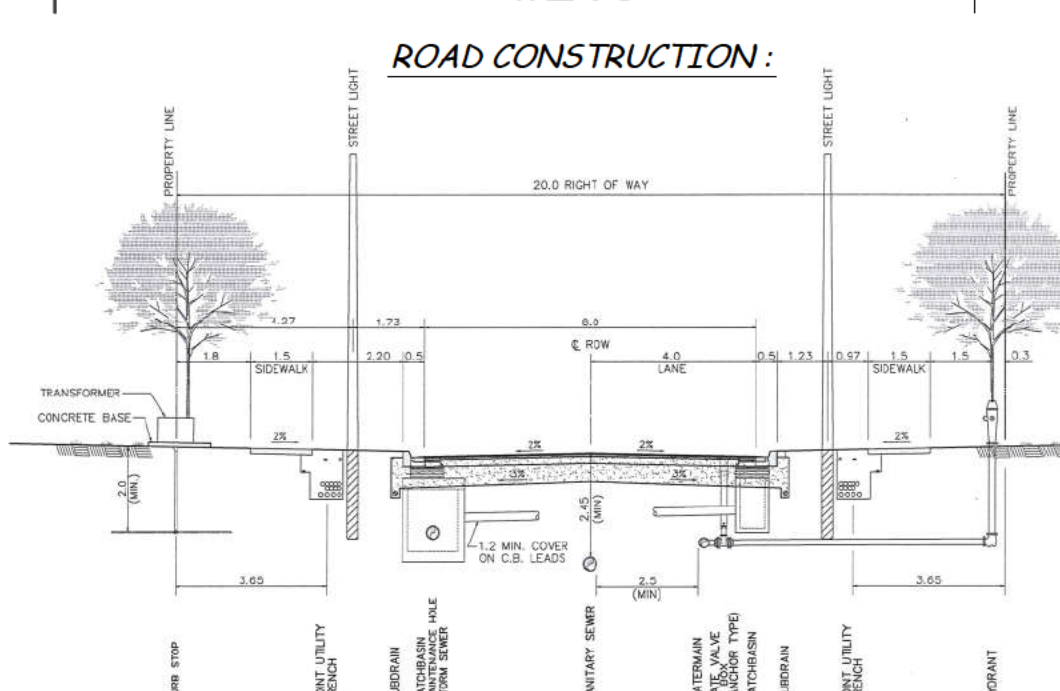
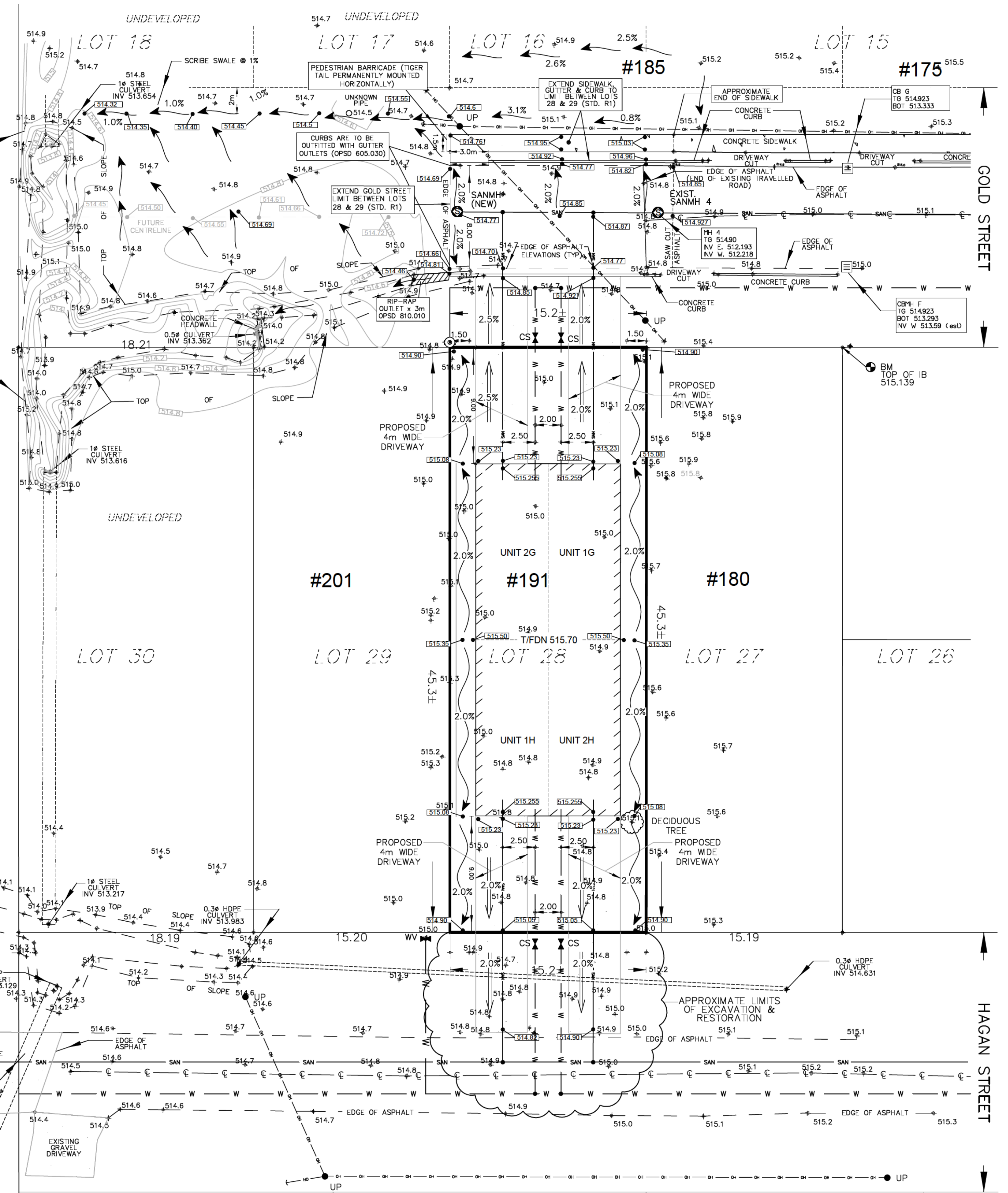
- BOULEVARDS & TREES :**
- ALL BOULEVARDS TO HAVE MINIMUM 200mm TOPSOIL BEFORE SODDING PLUS SOD CONSISTENT WITH MUNICIPAL STANDARDS.

- GRADING :**
- MAXIMUM SLOPE FOR GRADE SHALL BE 3:1 (HORIZONTAL TO VERTICAL), MINIMUM SLOPE SHALL BE 2.0%.
 - PRIOR TO COMMENCEMENT OF SITE GRADING AND, SITE ALTERATION, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND OPERATIONAL. THE CONTRACTOR SHALL MAINTAIN ALL WORKS UNTIL SERVING CONSTRUCTION IS COMPLETE TO THE SATISFACTION OF THE ENGINEER.

- SUBDRAINS & ROOF DRAINAGE :**
- ROOF DRAINAGE SHALL BE DISCHARGED TO GRADE

BENCHMARK NOTES :

- UNDERLYING LEGAL FABRIC DETERMINED BY WILSON - FORD.
- ELEVATIONS SHOWN HEREON ARE GEODETIC, DEVISED FROM GNSS OBSERVATIONS.
- SITE BENCHMARK IS THE TOP OF LEGAL SURVEY MONUMENT AS SHOWN WITH ELEVATION OF 515.139
- UNDERGROUND INFRASTRUCTURE DATA FROM AS-CONSTRUCTED PLANS PREPARED BY:
 - TRITON ENGINEERING SERVICES LTD (DWG M-14-70)
 - HENDERSON, PADDON & ASSOCIATES (DWG 8991-3K2)



- NOTES:**
- LOCATE HYDRO TRANSFORMER AS PER STANDARD UT1 OR UT2
 - TREE PLANTING 0.3m FROM PROPERTY LINE
 - SIDEWALK LOCATED ON ONE SIDE ONLY
 - ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TOWNSHIP OF SOUTHGATE	DATE: MAR, 2021	REV: 2
STANDARD CROSS-SECTION LOCAL STREET - 20.0m R.O.W.	STD. R1	

- NOTES:**
- BEYOND EMBANKMENT AND COVER MATERIAL SHALL BE GRANULAR A OR AS SUPPORTED BY GEOTECHNICAL INVESTIGATION.
 - SERVICE TEES SHALL BE FACTORY MANUFACTURED TEES.
 - SERVICE CONNECTIONS SHALL BE AS PER OPSD 1006.010 FOR SEWER SERVICE CONNECTIONS FOR MAIN PIPE SIZES.

PROPOSED DEVELOPMENT LOT 28 BLOCK 1 PLAN 480 (VILLAGE OF DUNDALK) TOWNSHIP OF SOUTHGATE COUNTY OF GREY

GRADING PLAN & DETAILS

DESIGN: GF
DRAWN: JB/WvdM
PROJECT No. 10101
SHEET 2 OF 2

1000124408 ONTARIO INC.

PROFESSIONAL ENGINEER LICENSE NO. 1000124408 NOVEMBER 4, 2025

WILSON FORD SURVEYING & ENGINEERING PROTECTED BY COPYRIGHT-DO NOT COPY

REVISED	DESCRIPTION	DRN	CHK	DATE
6	RELOCATED NEW SANITARY MANHOLE ON GOLD STREET	JB	GF	NOV 4 2025
5	DELETED MODIFIED HAMMERHEAD TURNABOUT	JB	GF	OCT 29 2025
4	ADDED MODIFIED HAMMERHEAD TURNABOUT	JB	GF	OCT 9 2025
3	MINOR CHANGES	JB	GF	SEP 22 2025
2	MINOR CHANGES	JB	GF	SEP 2 2025
1	1ST DRAWING ISSUE	WvdM	GF	MAY 7 2025

LEGEND

- 399.99 EXISTING GRADE
- 400.00 PROPOSED GRADE
- FLOW DIRECTION
- ⊕ BENCHMARK
- OH OVERHEAD HYDRO UTILITY POLE & GUY
- ⊕ CATCH BASIN MAN HOLE/MANHOLE
- ⊕ FIRE HYDRANT
- ∞ SANITARY CLEANOUT

THE LOCATION OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGES TO THEM.

BENCHMARK NOTE:
SITE BENCHMARK IS TOP OF IB, SHOWN HEREON, WITH AN ELEVATION OF 515.139.