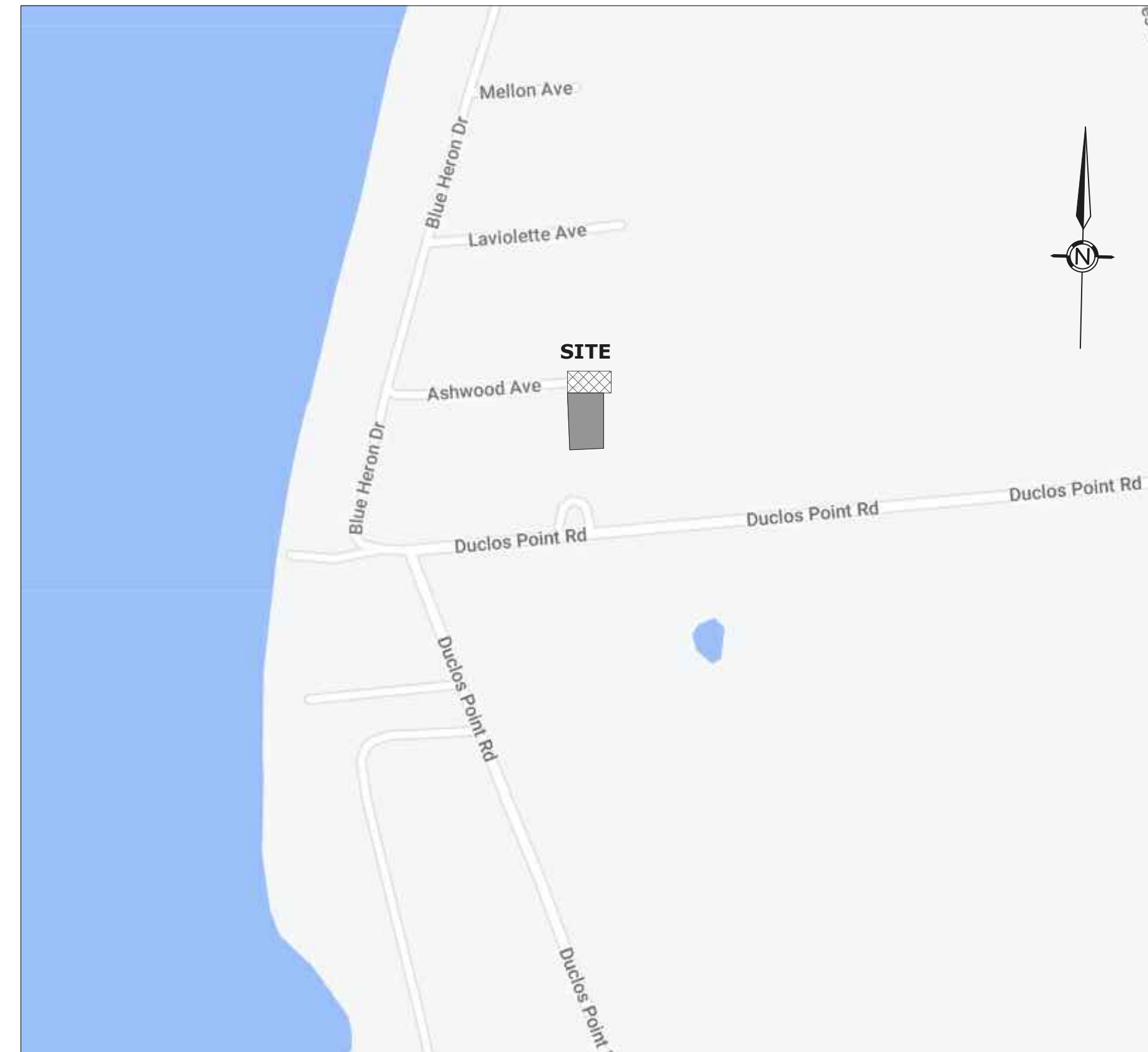




TOWN OF GEORGINA

ROAD CONSTRUCTION ASHWOOD AVENUE [ROAD EXTENSION FOR LOT 101]

LOT 101, R PLAN 302
ASHWOOD AVENUE
TOWN OF GEORGINA



SITE LOCATION

SCALE: NTS

APRIL 2023

PROJECT NO.: 22-1627

DWG. NO.	TITLE
SP-1	SITE GRADING PLAN
SP-1	SECTION A-A / PROFILE X-X
DET-1	DETAILS & NOTES
SWM-1	STORMWATER MANAGEMENT PLAN
SWM-2	STORMWATER MANAGEMENT PLAN DETAILS
ESC-1	EROSION & SEDIMENT CONTROL PLAN



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CONSTRUCTION REQUIREMENTS

THE CONSTRUCTION OF ALL ROADS IN THE TOWN OF GEORGINA SHALL BE IN ACCORDANCE WITH THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS, AS AMENDED FROM TIME TO TIME, OR AS MAY BE SUPERSEDED BY SPECIFICATIONS WITHIN THIS GUIDELINE.

SUB-GRADE
MECHANICAL ANALYSIS OF THE PROPOSED SUB-GRADE (I.E. PROOF-ROLLING) SHALL BE TAKEN ALONG THE ENTIRE ROADWAY. CALIFORNIA BEARING RATIO TESTS SHALL BE TAKEN FOR EACH REPRESENTATIVE SOIL TYPE. ALL TESTS MUST BE CONDUCTED BY A QUALIFIED SOILS CONSULTANT. COPIES OF ALL TESTS AND THE ROAD DESIGN PROPOSED BY THE CONSULTANT WILL BE SUBMITTED FOR THE APPROVAL OF THE TOWN.

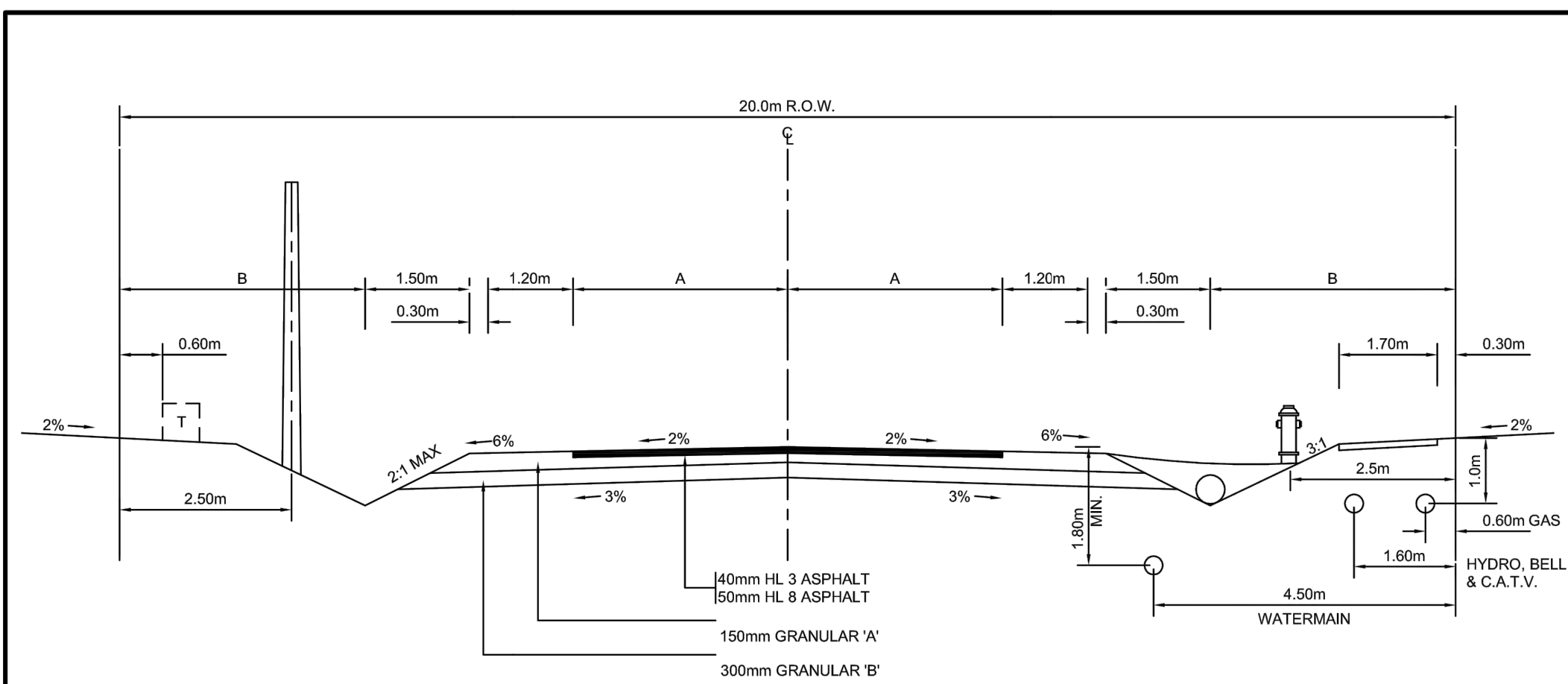
ROAD SUB-DRAINS
IN GENERAL, 150 MM DIAMETER PERFORATED, FILTER CLOTH WRAPPED PLASTIC CORRUGATED SUBDRAINS WILL BE REQUIRED TO RUN CONTINUOUSLY ALONG BOTH SIDES OF ALL ROADS WITH CURB AND GUTTER. THE SUB-DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TOWN STANDARD GR-15. THE TOWN RESERVES THE RIGHT TO REQUIRE VIDEO INSPECTION OF SUB-DRAINS.

COMPACTION
ALL MATERIAL WITHIN THE ROADWAY SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.
ALL MATERIAL SHALL BE SPREAD UPON THE ROAD IN LOOSE LAYERS NOT EXCEEDING 200 MM (8") IN THICKNESS.
MINIMUM ALLOWABLE COMPACTION REQUIREMENTS ARE AS FOLLOWS:
a) ROAD SUB-GRADE AND TRENCH BACKFILL - 98% STANDARD PROCTOR DENSITY
b) GRANULAR BASE - 100% STANDARD PROCTOR DENSITY
c) ASPHALT - 97% BULK RELATIVE DENSITY (BRD).
ALL GRANULAR COMPACTION SHALL BE CARRIED OUT UNDER CONDITIONS OF OPTIMUM MOISTURE CONTENT. ALL OTHER COMPACTION REQUIREMENTS OF THE OPSS SHALL BE FOLLOWED.

TACK COATING
THE ASPHALT SURFACE SHALL BE CLEANED OF ANY MUD, DEBRIS OR OTHER MATERIAL AND A LIQUID ASPHALT EMULSION SHALL BE APPLIED AS SPECIFIED IMMEDIATELY PRIOR TO SPREADING ASPHALT AND SHALL BE IN ACCORDANCE WITH OPSD 310.05.02 AND SHALL BE APPLIED ON ALL VERTICAL STRUCTURES ABUTTING THE PAVEMENT.

PAVING
TOP ASPHALT SHALL NOT BE PLACED UNTIL APPROVAL IS GRANTED BY THE TOWN. GENERALLY, NO SURFACE COURSE ASPHALT IS TO BE PLACED AFTER OCTOBER 25TH OF ANY YEAR WITHOUT THE EXPRESS WRITTEN CONSENT OF THE TOWN. SURFACE COURSE ASPHALT SHALL NOT BE PLACED IN A SINGLE LIFT EXCEEDING 100 MM (COMPACTED) DEPTH. IF REQUIRED, LEVELING/PADDING COURSES SHALL BE PLACED AND THE DEPTH OF ASPHALT REDUCED WHEREVER REQUIRED.
THE PLACEMENT OF SURFACE COURSE ASPHALT SHALL NOT COMMENCE IN ANY AREA UNTIL ALL OF THE FOLLOWING CONDITIONS ARE MET:
a) A MINIMUM PERIOD OF ONE (1) YEAR (OR TWO WINTER SEASONS) HAS EXPIRED FROM THE DATE FOR THE PLACEMENT OF THE BASE COURSE ASPHALT. 85% OF THE DWELLINGS HAVE RECEIVED OCCUPANCY PERMITS.
b) ALL UNDEVELOPED LOTS OR VACANT LANDS ARE ROUGH GRADED IN ACCORDANCE WITH THE CURRENT AND ACCEPTED LOT GRADING PLANS, AND STABILIZED.
c) ALL SERVICE CONNECTIONS FOR MULTIPLE FAMILY COMMERCIAL, INSTITUTIONAL OR OTHER BLOCKS ARE INSTALLED.
d) ALL DEFICIENCIES AND SETTLEMENTS HAVE BEEN REPAIRED.
e) FAVOURABLE WEATHER CONDITIONS ARE PRESENT, AS DEFINED BY OPS SPECIFICATIONS.
NO SURFACE COURSE ASPHALT IS TO BE PLACED AFTER OCTOBER 25TH OF ANY YEAR, WITHOUT EXPRESS WRITTEN CONSENT OF THE DIRECTOR OF OPERATIONS AND ENGINEERING.

TESTING
ALL TESTING FOR MATERIALS SHALL BE COMPLETED BY A GEOTECHNICAL CONSULTING ENGINEER AS CERTIFIED FOR SUCH WORK BY MTO WITHIN THE PROVINCE OF ONTARIO. THE DIRECTOR OF OPERATIONS AND ENGINEERING MAY REQUIRE CORE TESTS AND/OR COMPACTION TESTS TO DETERMINE COMPLIANCE WITH SPECIFICATIONS, OR TO DETERMINE THE ACTUAL THICKNESS AND FOR OUTLINING AREAS OF DEFICIENT THICKNESS OF ROADWAYS AND SIDEWALKS. CORES SHALL BE TAKEN AT LOCATIONS DETERMINED BY THE DIRECTOR OF OPERATIONS AND ENGINEERING. ALL COSTS FOR SUCH TESTING SHALL BE BORNE BY THE DEVELOPER.



- NOTES:
1. MAXIMUM DEPTH OF DITCH, FROM CROWN TO INVERT IS 0.75m, DEPTH BELOW SUB-GRADE 100mm.
2. DITCHES TO HAVE A MINIMUM OF 150mm TOPSOIL AND SOD.
3. ALL TRANSFORMERS AND HYDRANTS TO HAVE CULVERT ACCESS. MINIMUM 3.0m LONG, 400mm DIA., 1.6mm THICK C.M.P.
4. MINIMUM CULVERT COVERAGE OF 0.3m.

SECTION	ASPHALT (A)	BOULEVARD (B)
RESIDENTIAL	3.35m	3.65m
INDUSTRIAL	3.65m	3.35m



TYPICAL RURAL CROSS-SECTION

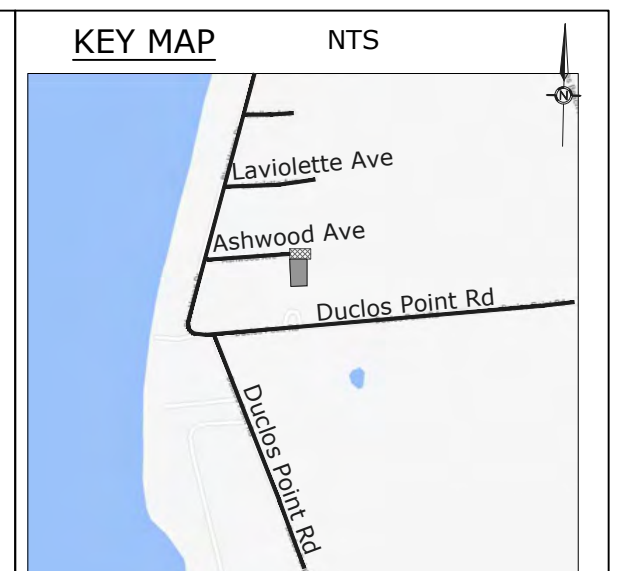
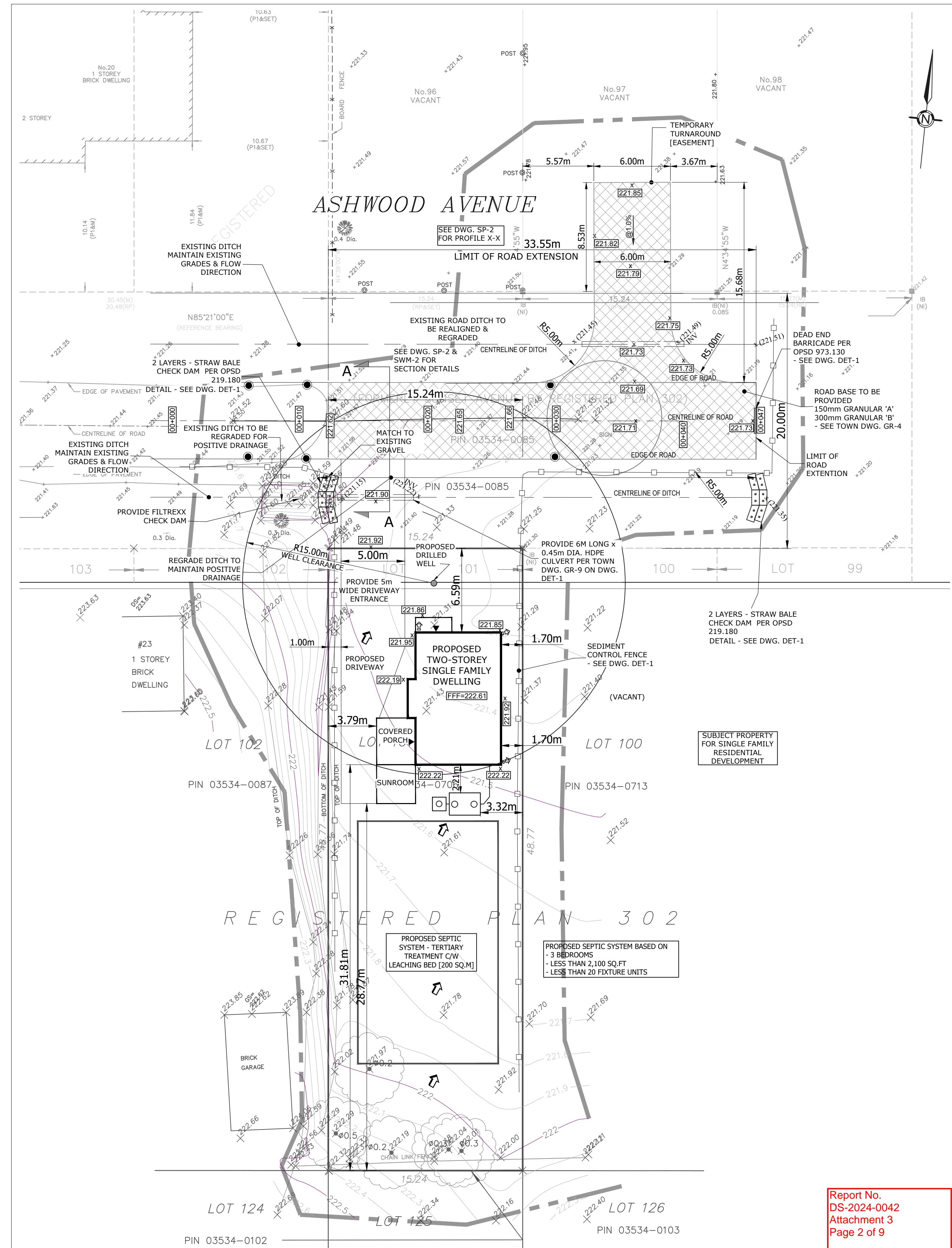
DATE: MAY 2012 SCALE: N.T.S.
DRAWN: N.C.F GR-4
CHKD. BY: M.E.B. METRIC

No.	REVISIONS	DATE	APPD

ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM CANSEL CAN-NET RTN BASE STATION 20120110050 (LXBG). VALUES ARE RELATED TO CGVD28:1978 (GEOID MODEL HT2_0)
THE FIELD MEASUREMENTS WERE COMPLETED JAN 26 2021

ENTRANCE SPECIFICATIONS:
- CULVERT MUST BE DUAL-WALL HDPE WITH SMOOTH INTERIOR
- 320KPa MIN. STIFFNESS
- 400mm DIA. MINIMUM UNLESS APPROVED BY TOWN DEVELOPMENT ENGINEERING
- CULVERT MUST BE 0.9M MIN. FROM PL
- INSTALLATION AS PER TOWN OF GEORGINA STANDARD DWG. GR-9

REFERENCES:
TOPOGRAPHIC SURVEY
1) BY E.R. GARDEN LIMITED, ONTARIO LAND SURVEYOR
PROJECT NO: 22-7947
2) BY MANDARIN SURVEYOR LIMITED JUNE 2022



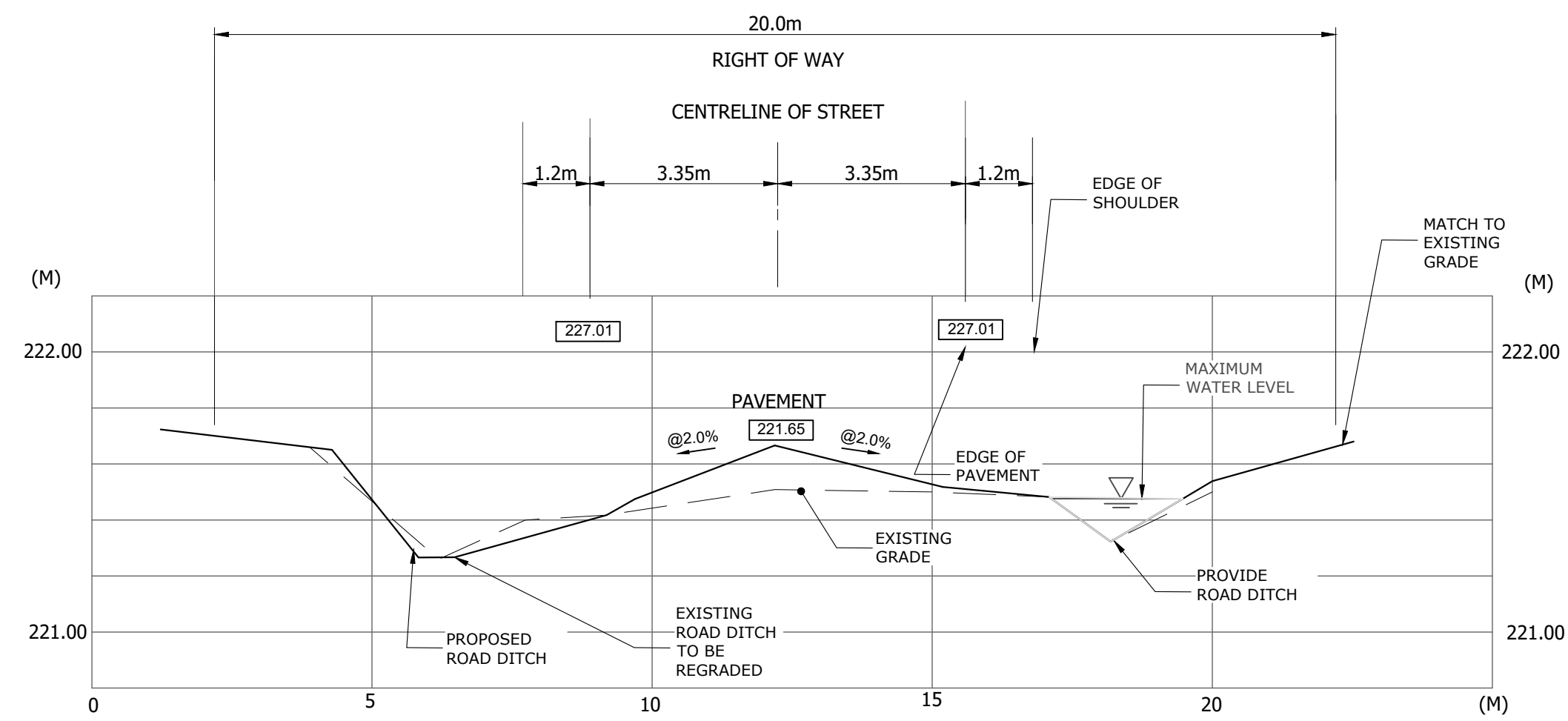
ROAD CONSTRUCTION
LOT 101, R PLAN 302
ASHWOOD AVENUE
TOWN OF GEORGINA

SITE GRADING PLAN

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PROJECT NO.: **22-1627**
DRAWING NO.: **SP-1**
Date: APRIL 2023
Scale: 1 : 200
Designed By: BH
Drawn By: BH

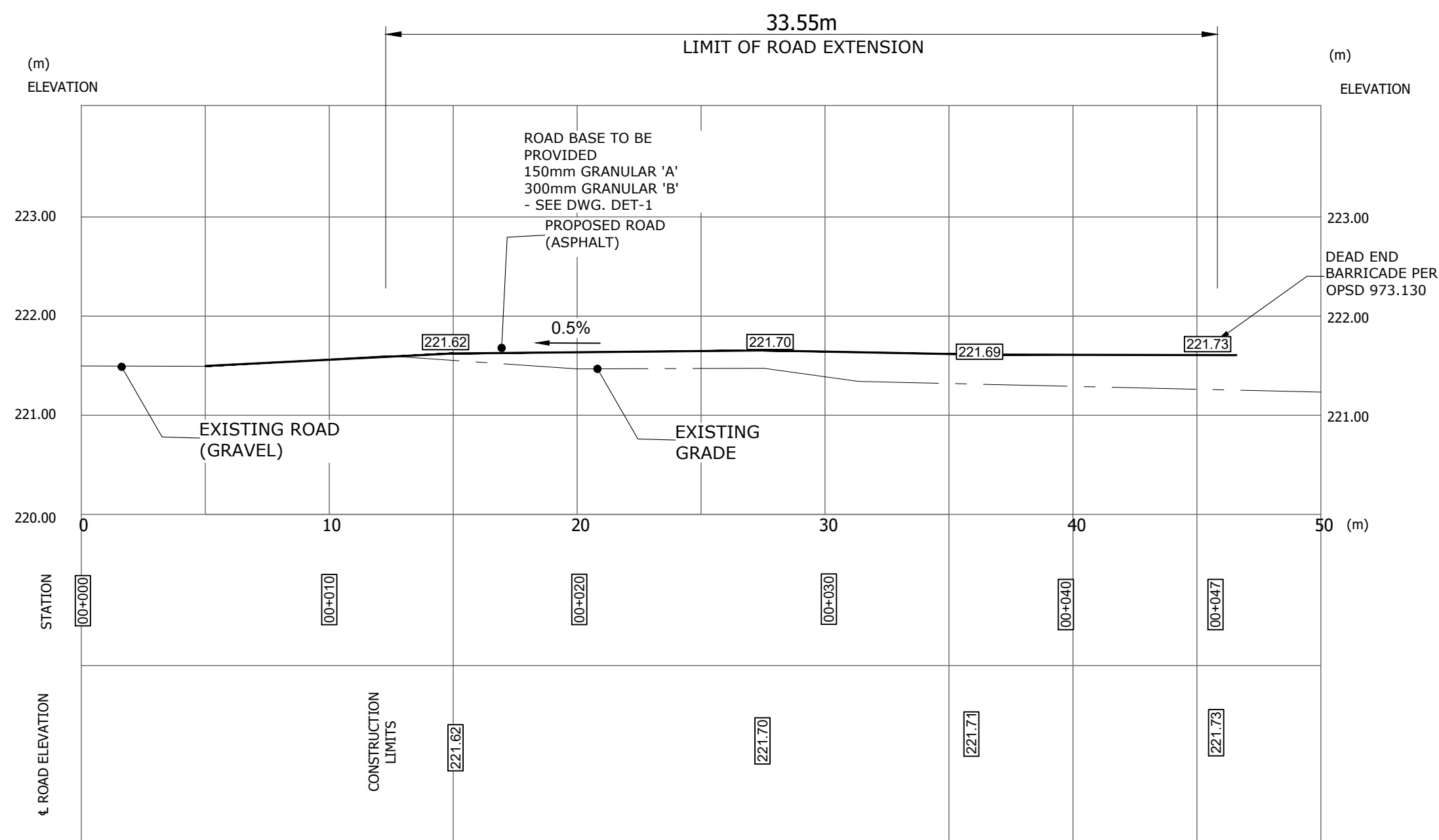
Report No. DS-2024-0042
Attachment 3
Page 2 of 9



SECTION 'A-A'

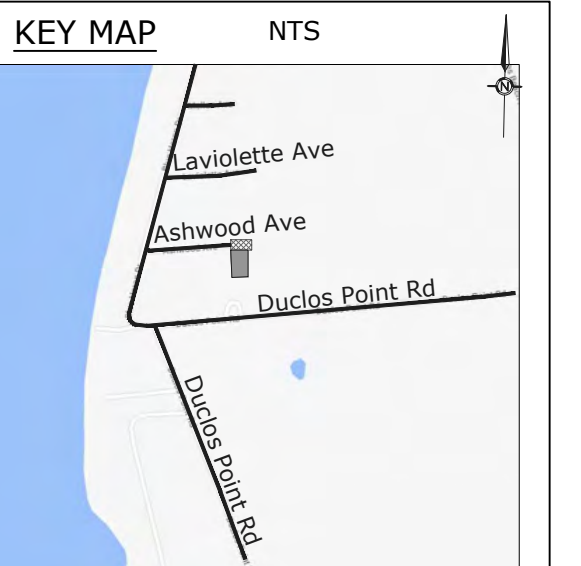
@ STATION 00 + 022.3

SCALE
HOR. 1 : 100
VERT. 1 : 20



PROFILE 'X-X'
[STATION 0+000 TO 00+047]

SCALE
HOR. 1 : 200
VERT. 1 : 50



LEGEND

TP TEST PIT



TRAFFIC BARREL

TC-54



ROAD CONSTRUCTION
LOT 101, R PLAN 302
ASHWOOD AVENUE
TOWN OF GEORGINA

SECTION A-A
PROFILE X-X

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PROJECT NO.: **22-1627**

DRAWING NO.: **SP-2**

Date: APRIL 2023

Designed By: BH

Scale: 1 : 200

Drawn By: BH

Report No.
DS-2024-0042
Attachment 3
Page 3 of 9

ROADWORK CONSTRUCTION NOTES:

1. THE EXPOSED GRANULAR SURFACE SHOULD BE GRADED TO 2% AND COMPACTED TO 98 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
2. THE PREPARED GRANULAR SURFACE SHOULD BE CAREFULLY PROOF-ROLLED USING A HEAVILY LOADED TRUCK IN CONJUNCTION WITH THE INSPECTION BY THE GEOTECHNICAL ENGINEER FROM GEOPRO; ANY SOFT, LOOSE, WET, ORGANIC SOILS AND ANY OTHER DELETERIOUS MATERIALS MUST BE REMOVED AND REPLACED WITH GRANULAR A MATERIAL OR OTHER GRANULAR SOILS APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL MATERIALS SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING 200 MM AND COMPACTED TO AT LEAST 98 PERCENT OF SPMDD.
3. PLACE OPSS 1010 GRANULAR A BASE COURSE WITH A MINIMUM THICKNESS OF 150 MM IN ACCORDANCE WITH THE ABOVE TABLE COMPACTED TO 100 PERCENT OF SPMDD.
4. PLACE HOT-MIX ASPHALT IN ACCORDANCE WITH THE PAVEMENT STRUCTURE IN THE ABOVE TABLE. PRODUCED AND PLACED IN ACCORDANCE WITH OPSS 310. THE SURFACE OF THE COMPLETED PAVEMENT SHOULD BE PROVIDED WITH A GRADE OF 2 PERCENT.
5. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REINSTATED TO ORIGINAL CONDITION OR BETTER BY THE CONTRACTOR.
6. SUB-DRAINS ARE TO BE INSTALLED THROUGHOUT.
6. ALL NEW SIGNS WILL BE **TYPE IV HIGH REFLECTIVITY** SIGNS. WILL BE MADE OF STEEL AND WILL INCLUDE THE TOWN NAME AND YEAR OF MANUFACTURE ON THE BORDER OF THE SIGN. SIGN RETRO-REFLECTIVITY IS DETERMINED USING MUTCD TABLE 2A.3 (THE STANDARDS IN THE OTM REFER TO NEW SIGN RETRO-REFLECTIVITY)

**MINIMUM ROAD REQUIREMENTS:
(TOWN OF GEORGINA)**

- ASPHALT 40mm HL3 SURFACE COURSE
50mm HL8 BASE COURSE
- GRANULAR 150mm GRANULAR "A"
300mm GRANULAR "B"

STANDARD NOTES: LSRCA

1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED WITHIN 48 HOURS OF THE INSPECTION.
2. DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
3. ALL IN-WATER AND NEAR WATER WORKS WILL BE CONDUCTED IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
4. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. LSRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
5. AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS, AS WELL AS ON A REGULAR BASIS, OR FOLLOWING RAIN/SNOWMELT EVENT, TO MONITOR ALL WORKS, AND IN PARTICULAR WORKS RELATED TO EROSION AND SEDIMENT CONTROLS, DEWATERING, RESTORATION AND IN-OR NEAR- WATER WORKS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR WILL CONTACT THE LSRCA ENFORCEMENT OFFICER AS WELL AS THE PROPONENT.
6. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
7. ALL GRADES WITHIN THE REGULATORY FLOOD PLAIN WILL BE MAINTAINED OR MATCHED.
8. THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G. FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
9. ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
10. ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY LSRCA.

GENERAL NOTES - EROSION & SEDIMENT CONTROL:

1. CONSTRUCTION ACCESS TO THE SITE SHALL BE FROM METRO ROAD NORTH.
2. REVEGETATION OF THE SITE TO BE APPLIED AS PER OPS 804 IMMEDIATELY AFTER COMPLETION OF GRADING.
3. INSPECT SEDIMENT CONTROL DEVICES AFTER RAINFALL EVENTS (13mm OR GREATER) AND AT LEAST BI-WEEKLY.
4. REMOVE STRAW BALES OF RIP RAP DAMS AND ALONG LOCATIONS AS SHOWN WHEN THEY BECOME 50% CLOGGED.
5. INSTALLATION AND MAINTENANCE OF SILT FENCES AROUND THE PERIMETER OF THE SITE SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD. SILT FENCE WILL BE AS PER OPS 219.130.
6. NO CONSTRUCTION ACTIVITY OR MACHINERY TO OPERATE OUTSIDE THE SILT FENCING.
7. SILT FENCE WILL BE REMOVED ONLY AFTER SITE HAS BEEN STABILIZED AND PAVING OPERATIONS ARE COMPLETED.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ESC MEASURES IN WORKING CONDITIONS AT ALL TIMES TO THE SATISFACTION OF THE CONSULTING ENGINEER.
9. ALL CONSTRUCTION VEHICLES MUST ENTER AND EXIT THE SITE VIA MUD MAT AS SHOWN ON ESC PLAN.
10. EROSION CONTROL FENCING TO BE INSTALLED AROUND THE BASE OF ALL STOCKPILES.
11. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE CONSULTING ENGINEER, THE LSRCA, & THE TOWN.

TRAFFIC CONTROL PERSON (TCP) - WHEN NECESSARY ALL THE REQUIREMENTS SHALL BE FOLLOWED SECTION 5 IN ONTARIO TRAFFIC MANUAL (JAN 2014)

TRAFFIC CONTROL PERSON (TCP) MUST WEAR A GARMENT WITH REFLECTIVE MATERIALS MEETS ONTARIO REGULATION 213/91 SECTION 69 UNDER THE OHSA.

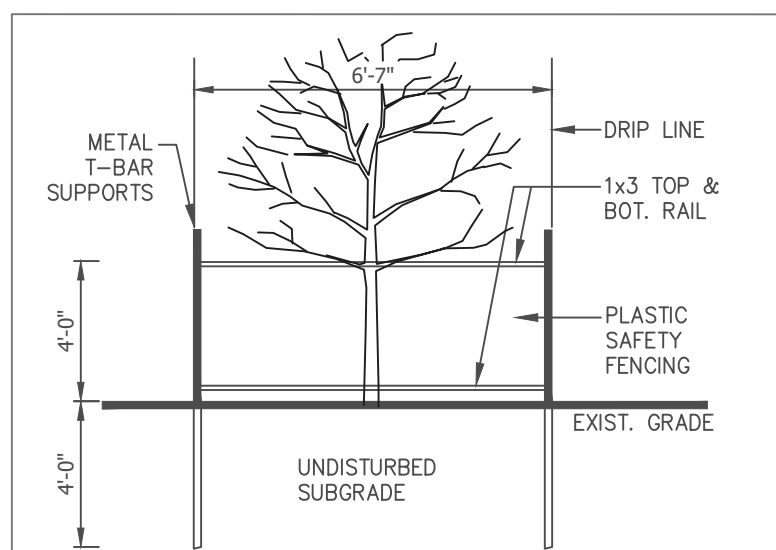
CONSTRUCTION CONSIDERATIONS:

1. HEAVY EQUIPMENT AND TRAFFIC SHOULD AVOID TRAVELING OVER THE PROPOSED LOCATION OF THE FACILITY TO MINIMIZE COMPACTION OF THE SOIL.
2. FACILITIES SHOULD BE KEPT "OFF-LINE" UNTIL CONSTRUCTION IS COMPLETE. THEY SHOULD NEVER SERVE AS A SEDIMENT CONTROL DEVICE DURING SITE CONSTRUCTION. SEDIMENT SHOULD BE PREVENTED FROM ENTERING THE INFILTRATION FACILITY USING SUPER SILT FENCE, DIVERSION BERMS OR OTHER MEANS.
3. UPLAND DRAINAGE AREAS NEED TO BE PROPERLY STABILIZED WITH A THICK LAYER OF VEGETATION, PARTICULARLY IMMEDIATELY FOLLOWING CONSTRUCTION, TO REDUCE SEDIMENT LOADS.
4. THE FACILITY SHOULD BE EXCAVATED TO DESIGN DIMENSIONS FROM THE SIDE USING A BACKHOE OR EXCAVATOR. THE BASE OF THE FACILITY SHOULD BE LEVEL OR NEARLY LEVEL.
5. THE BOTTOM OF THE FACILITY SHOULD BE SCARIFIED TO IMPROVE INFILTRATION. AN OPTIONAL 150 MM OF SAND COULD BE SPREAD FOR THE BOTTOM FILTER LAYER. THE MONITORING WELL SHOULD BE ANCHORED AND STONE SHOULD BE ADDED TO THE FACILITY IN 0.3 METRE LIFTS.
6. GEOTEXTILE FABRIC SHOULD BE CORRECTLY INSTALLED IN THE SOAKAWAY OR INFILTRATION TRENCH EXCAVATION. LARGE TREE ROOTS SHOULD BE TRIMMED FLUSH WITH THE SIDES OF THE FACILITY TO PREVENT PUNCTURING OR TEARING OF THE FABRIC DURING SUBSEQUENT INSTALLATION PROCEDURES. WHEN LAYING OUT THE GEOTEXTILE, THE WIDTH SHOULD INCLUDE SUFFICIENT MATERIAL TO COMPENSATE FOR PERIMETER IRREGULARITIES IN THE FACILITY AND FOR A 150 MM MINIMUM TOP OVERLAP. VOIDS MAY OCCUR BETWEEN THE FABRIC AND THE EXCAVATED SIDES OF THE FACILITY. NATURAL SOILS SHOULD BE PLACED IN ANY VOIDS TO ENSURE FABRIC CONFORMITY TO THE EXCAVATION SIDES.

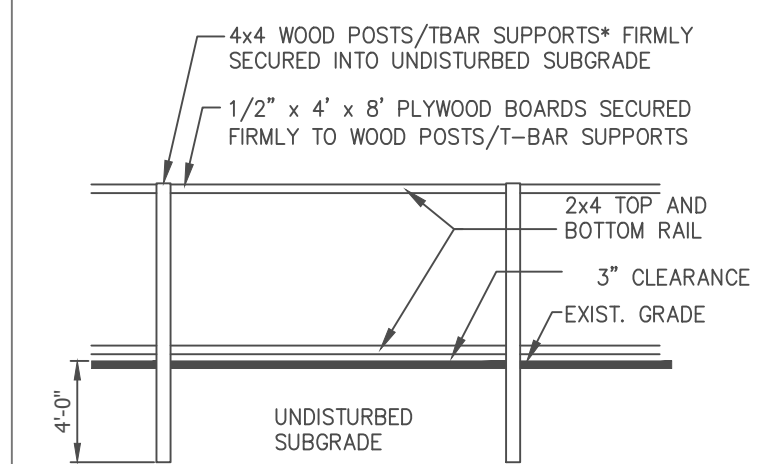
REFERENCES:
TOPOGRAPHIC SURVEY
1) BY E.R. GARDEN LIMITED, ONTARIO SURVEYOR
PROJECT NO. 22-7947
2) BY MANDARIN SURVEYOR LIMITED

GENERAL NOTES - EROSION & SEDIMENT CONTROL:

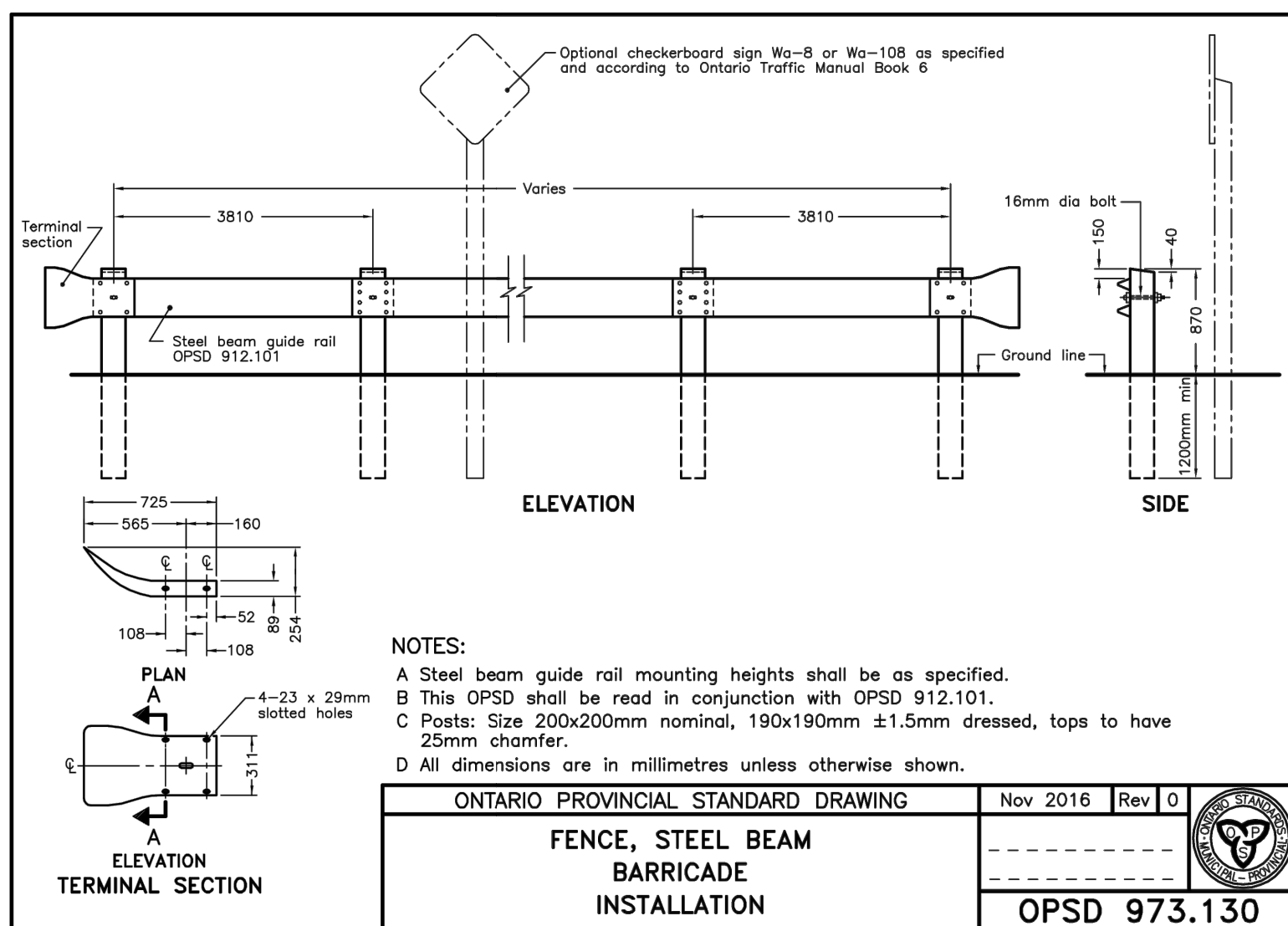
1. REVEGETATION OF THE SITE TO BE APPLIED AS PER OPS 804 IMMEDIATELY AFTER COMPLETION OF GRADING.
2. INSPECT SEDIMENT CONTROL DEVICES AFTER RAINFALL EVENTS (13mm OR GREATER) AND AT LEAST BI-WEEKLY.
3. REMOVE STRAW BALE RIP RAP DAMS AND ALONG LOCATIONS AS SHOWN WHEN THEY BECOME 50% CLOGGED.
4. INSTALLATION AND MAINTENANCE OF SILT FENCES AROUND THE PERIMETER OF THE SITE SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD. SILT FENCE WILL BE AS PER OPS 219.130 OR LSRCA ESC-4.
5. NO CONSTRUCTION ACTIVITY OR MACHINERY TO OPERATE OUTSIDE THE SILT FENCING.
6. SILT FENCE WILL BE REMOVED ONLY AFTER SITE HAS BEEN STABILIZED AND PAVING OPERATIONS ARE COMPLETED.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ESC MEASURES IN WORKING CONDITIONS AT ALL TIMES TO THE SATISFACTION OF THE CONSULTING ENGINEER.
8. ALL CONSTRUCTION VEHICLES MUST ENTER AND EXIT THE SITE VIA MUD MAT AS SHOWN ON ESC PLAN.
9. EROSION CONTROL FENCING TO BE INSTALLED AROUND THE BASE OF ALL STOCKPILES.
10. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE CONSULTING ENGINEER AND THE LSRCA.
11. ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.



FRAMED HOARDING DETAIL nts



SOLID HOARDING DETAIL nts

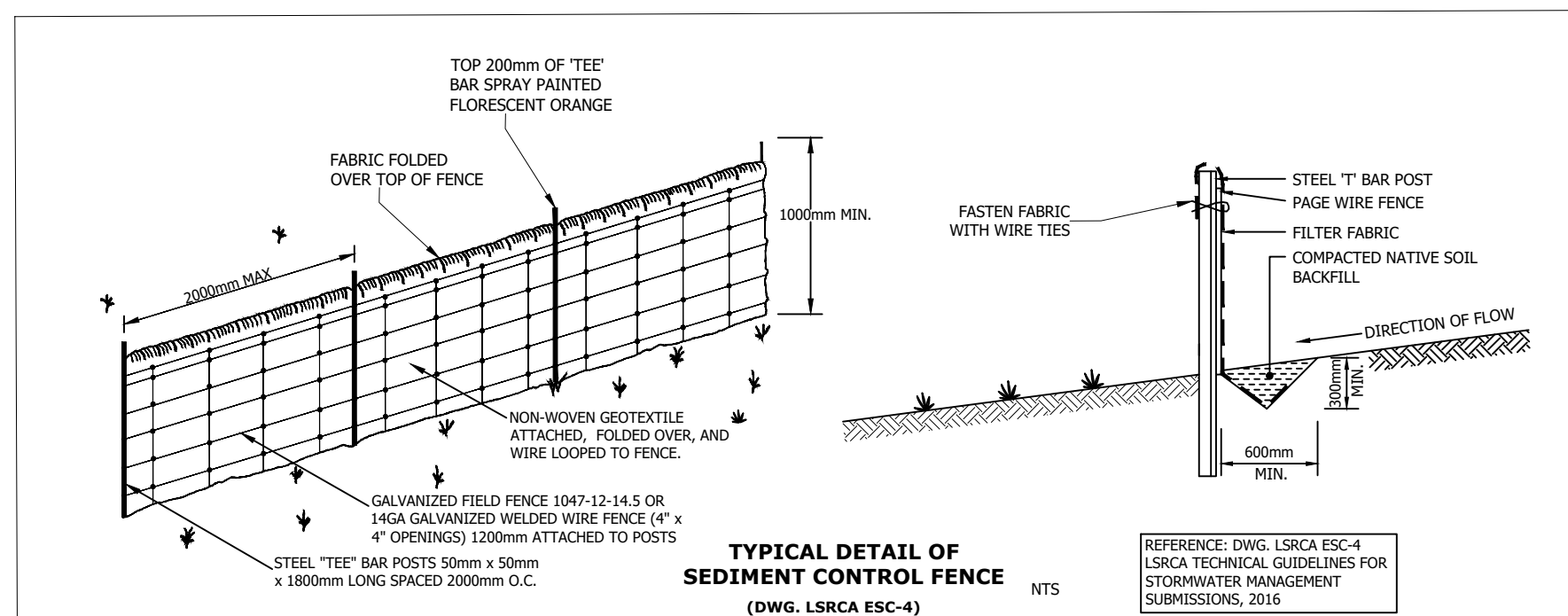


- NOTES:
- A Steel beam guide rail mounting heights shall be as specified.
 - B This OPSD shall be read in conjunction with OPSD 912.101.
 - C Posts: Size 200x200mm nominal, 190x190mm ±1.5mm dressed, tops to have 25mm chamfer.
 - D All dimensions are in millimetres unless otherwise shown.

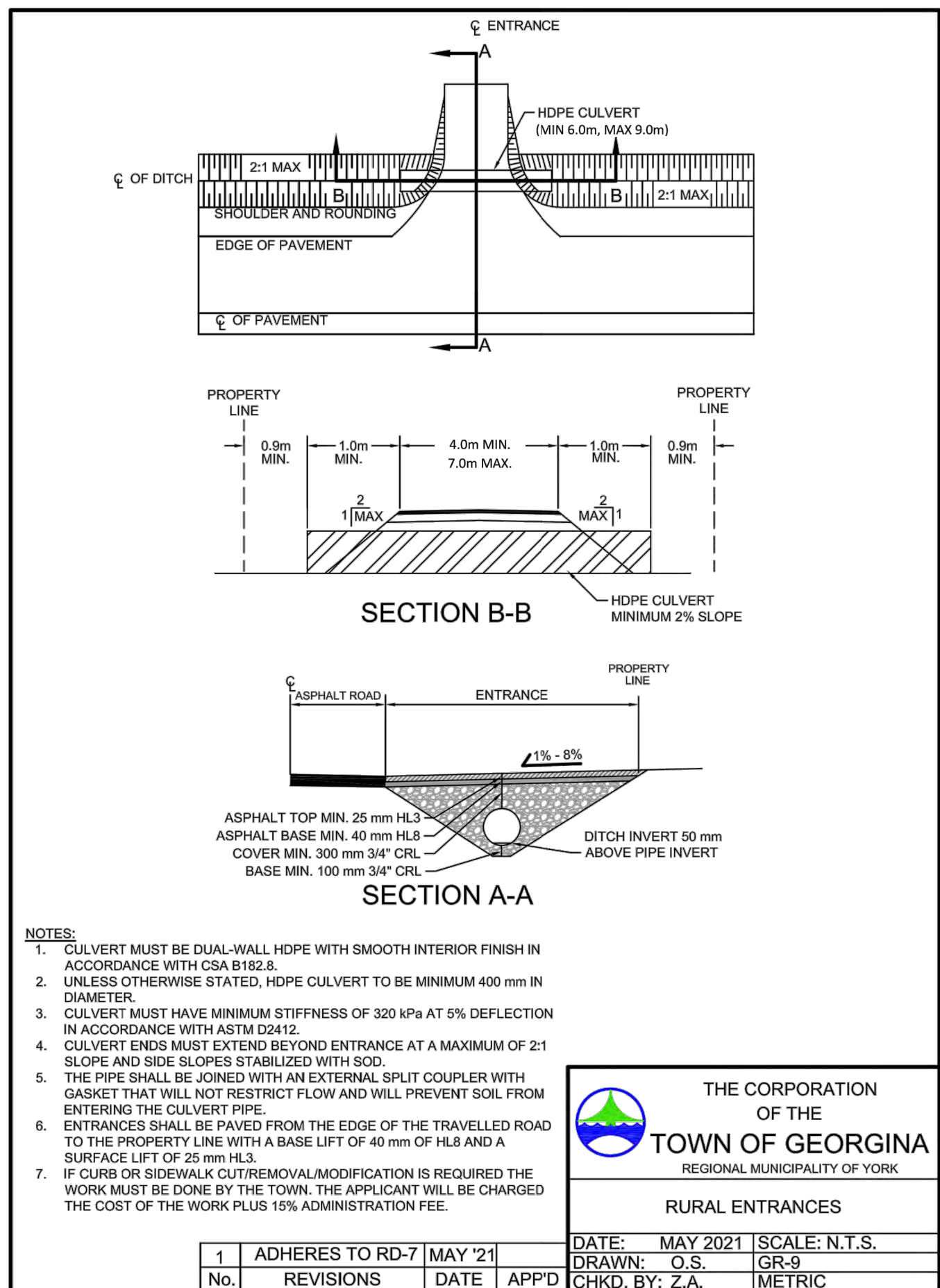
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2016 Rev 0

FENCE, STEEL BEAM BARRICADE INSTALLATION

OPSD 973.130



- NOTES:
1. SEDIMENT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
 2. SEDIMENT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 CHART F4-3C TOPOGRAPHIC FACTOR LS BASED ON SLOPE LENGTH AND GRADIENT.
 3. SEDIMENT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TOED INTO THE SOIL A MIN. OF 300mm BY EITHER STATIC SLICING OR TRENCH METHODS WITH COMPACTION OF TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% STANDARD PROCTOR DENSITY.
 4. STEEL T BAR POSTS ARE TO BE SPACED A MAXIMUM DISTANCE OF 2000mm ON CENTER.
 5. FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
 6. GEOTEXTILE FABRIC TO BE COMPRISED OF NON-WOVEN U.V. STABILIZED MATERIAL FABRIC TO BE FOLDED OVER TOP OF FENCE A MINIMUM OF 300mm AND WIRE FASTENED.
 7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
 8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.



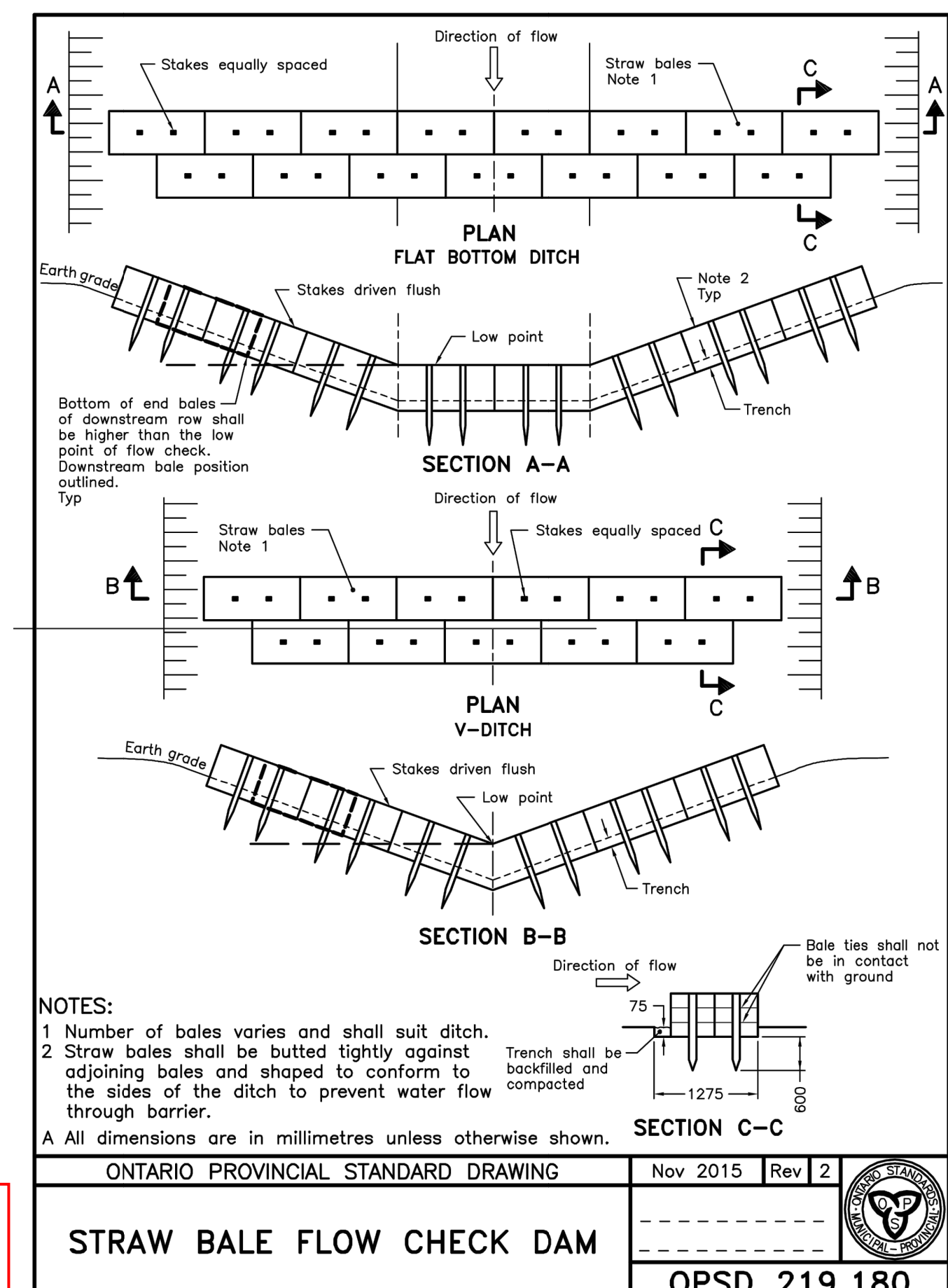
- NOTES:
1. CULVERT MUST BE DUAL-WALL HDPE WITH SMOOTH INTERIOR FINISH IN ACCORDANCE WITH CSA B182.8.
 2. UNLESS OTHERWISE STATED, HDPE CULVERT TO BE MINIMUM 400 mm IN DIAMETER.
 3. CULVERT MUST HAVE MINIMUM STIFFNESS OF 320 kPa AT 5% DEFLECTION IN ACCORDANCE WITH ASTM D2412.
 4. CULVERT ENDS MUST EXTEND BEYOND ENTRANCE AT A MAXIMUM OF 2:1 SLOPE AND SIDE SLOPES STABILIZED WITH SOD.
 5. THE PIPE SHALL BE JOINED WITH AN EXTERNAL SPLIT COUPLER WITH GASKET THAT WILL NOT RESTRICT FLOW AND WILL PREVENT SOIL FROM ENTERING THE CULVERT PIPE.
 6. ENTRANCES SHALL BE PAVED FROM THE EDGE OF THE TRAVELLED ROAD TO THE PROPERTY LINE WITH A BASE LIFT OF 40 mm OF HL8 AND A SURFACE LIFT OF 25 mm HL3.
 7. IF CURB OR SIDEWALK CUT/REMOVAL/MODIFICATION IS REQUIRED THE WORK MUST BE DONE BY THE TOWN. THE APPLICANT WILL BE CHARGED THE COST OF THE WORK PLUS 15% ADMINISTRATION FEE.

THE CORPORATION OF THE TOWN OF GEORGINA
REGIONAL MUNICIPALITY OF YORK

RURAL ENTRANCES

DATE: MAY 2021 SCALE: N.T.S.
DRAWN: O.S. GR-9
CHKD. BY: Z.A. IMETRIC

1	ADHERES TO RD-7	MAY '21	
No.	REVISIONS	DATE	APP'D



- NOTES:
1. Number of bales varies and shall suit ditch.
 2. Straw bales shall be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.
- A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 2

STRAW BALE FLOW CHECK DAM

OPSD 219.180



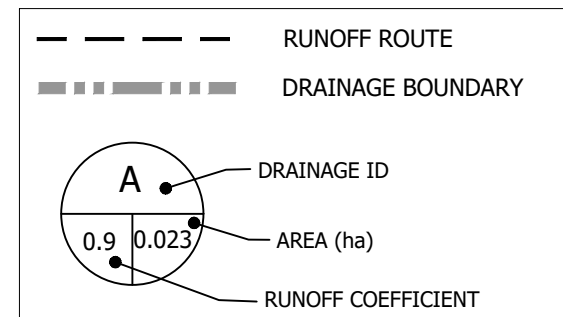
ROAD CONSTRUCTION
LOT 101, R PLAN 302
ASHWOOD AVENUE
TOWN OF GEORGINA

DETAILS & NOTES

BJH Engineering Ltd.
#25944 WOODBINE AVENUE,
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phone: 1.888.530.0699
email: bjhngconsulting@gmail.com
www.bjhengineering.ca

PROJECT NO.: **22-1627**
DRAWING NO.: **DET-1**
Date: APRIL 2023
Scale: NTS
Designed By: BH
Drawn By: BH

Report No.
DS-2024-0042
Attachment 3
Page 4 of 9



PRE-DEVELOPMENT: TIME OF CONCENTRATION

WEIGHTED RUNOFF COEFFICIENT	0.41
MAX. LENGTH OF WATER TRAVEL	56 m
SURFACE SLOPE	2.4%
T _c (TIME OF CONCENTRATION)	3.1 min.

NOTE: USE 10 min. FOR CALCULATIONS

STORMWATER CATCHMENT AREA

PRE-DEVELOPMENT:
 STM CATCHMENT AREA: 2,379 SQ.M (0.2379ha)

DRAINAGE ID	LANDUSE	AREA (SQ. M)	C (RUNOFF COEFFICIENT)
A	GRASS AREA	2,086	0.35
B	GRAVEL ROAD	293	0.8

POST-DEVELOPMENT: TIME OF CONCENTRATION

WEIGHTED RUNOFF COEFFICIENT	0.44
MAX. LENGTH OF WATER TRAVEL	56 m
SURFACE SLOPE	2.4%
T _c (TIME OF CONCENTRATION)	3.1 min.

NOTE: USE 10 min. FOR CALCULATIONS

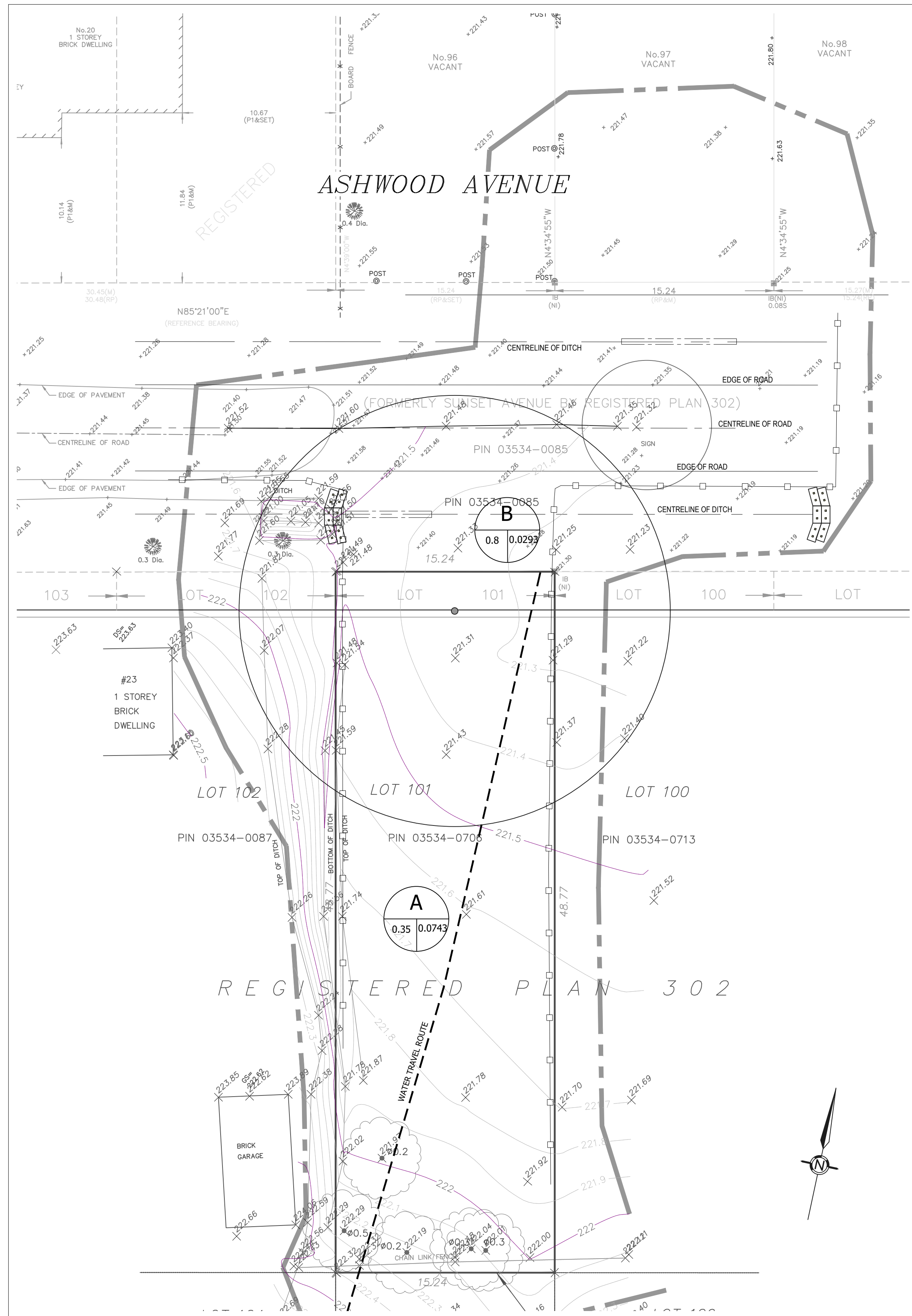
STORMWATER CATCHMENT AREA

POST-DEVELOPMENT:
 STM CATCHMENT AREA: 2,379 SQ.M (0.2379 ha)

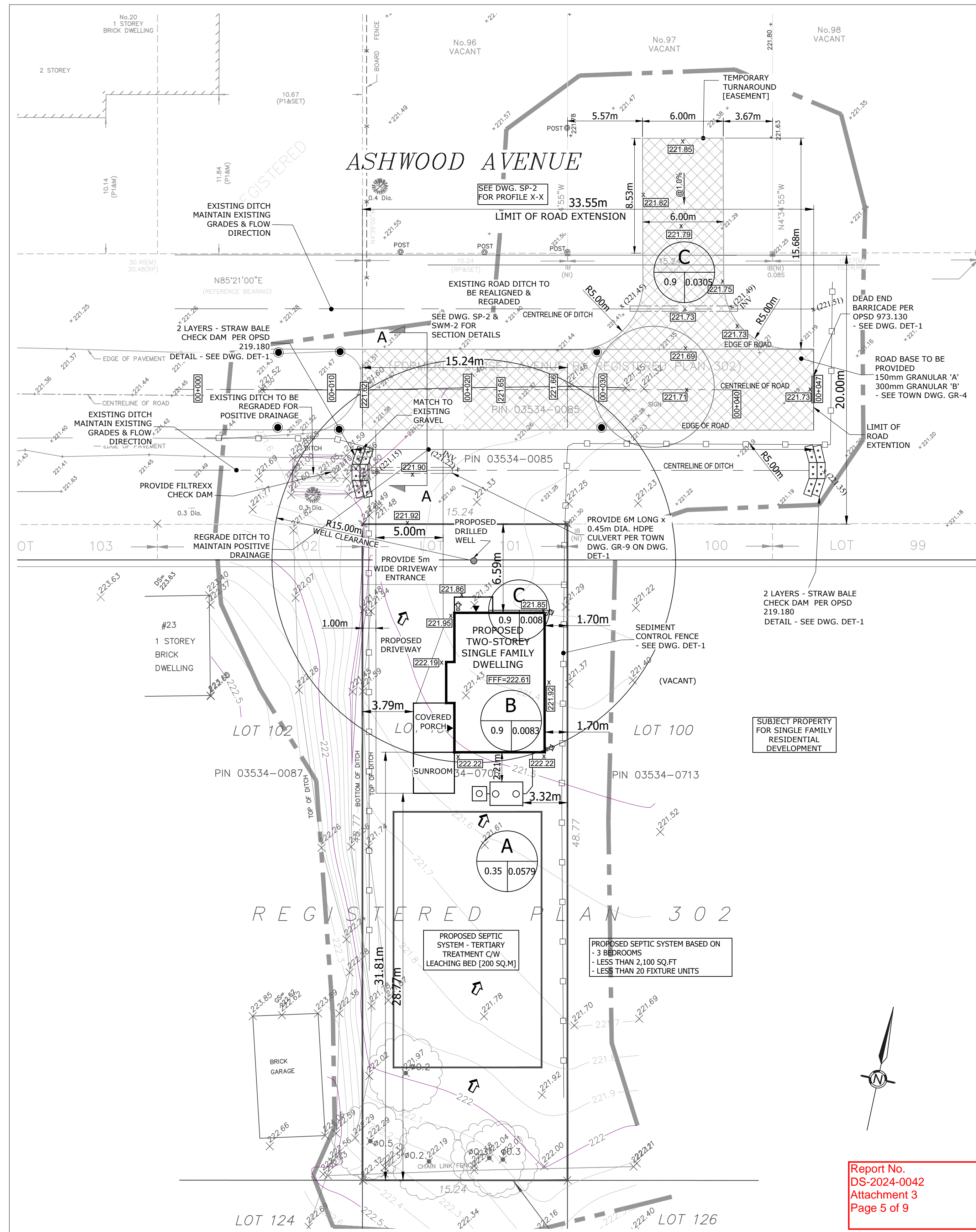
DRAINAGE ID	LANDUSE	AREA (SQ. M)	C (RUNOFF COEFFICIENT)
A	GRASS AREA	1,991	0.35
B	BUILDINGS	83	0.9
C	ROAD (ASPHALT)	305	0.9



PRE-DEVELOPMENT



POST-DEVELOPMENT



- LEGEND**
- EXISTING ELEVATIONS
 - SWALE ELEVATIONS
 - PROPOSED ELEVATIONS
 - SWALE DIRECTIONS
 - SURFACE DRAINAGE DIRECTIONS
 - HYP HYDRO POLE
 - ROOF DOWNSPOUT
 - TREE
 - TREE TO BE REMOVED
 - TEST PIT

FFF: FINISHED FIRST FLOOR
 TFW: TOP OF FDN WALL
 TBS: TOP OF BASEMENT SLAB
 USF: UNDERSIDE FOOTING



ROAD CONSTRUCTION

LOT 101, R PLAN 302
 ASHWOOD AVENUE
 TOWN OF GEORGINA

STORMWATER MANAGEMENT PLAN

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PROJECT NO.: **22-1627**
 DRAWING NO.: **SWM-1**
 Date: APRIL 2023
 Scale: 1 : 200

Designed By: BH
 Drawn By: BH

Report No. DS-2024-0042
 Attachment 3
 Page 5 of 9

IDF CURVE DATA						
Storm Event	Parameter A	Parameter B	Parameter C	Intensity Formulae (mm/hr)	Intensity Factor	
2-Year	678.085	4.699	0.781	$I = \frac{678.085}{(t+B)^C}$	1.00	
5-Year	853.608	4.699	0.766	$I = \frac{853.608}{(t+B)^C}$	1.00	
10-Year	975.865	4.699	0.760	$I = \frac{975.865}{(t+B)^C}$	1.00	
25-Year	1,146.275	4.922	0.757	$I = \frac{1146.275}{(t+B)^C}$	1.10	
50-year	1,236.152	4.699	0.751	$i = \frac{1,236.152}{(t+B)^C}$	1.10	
100-Year	1,426.408	5.273	0.759	$I = \frac{1426.408}{(t+B)^C}$	1.25	

Return period	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
A	678.085	853.608	975.865	1,146.275	1,236.152	1,426.408
B	4.699	4.699	4.699	4.922	4.699	5.273
C	0.781	0.766	0.760	0.757	0.751	0.759

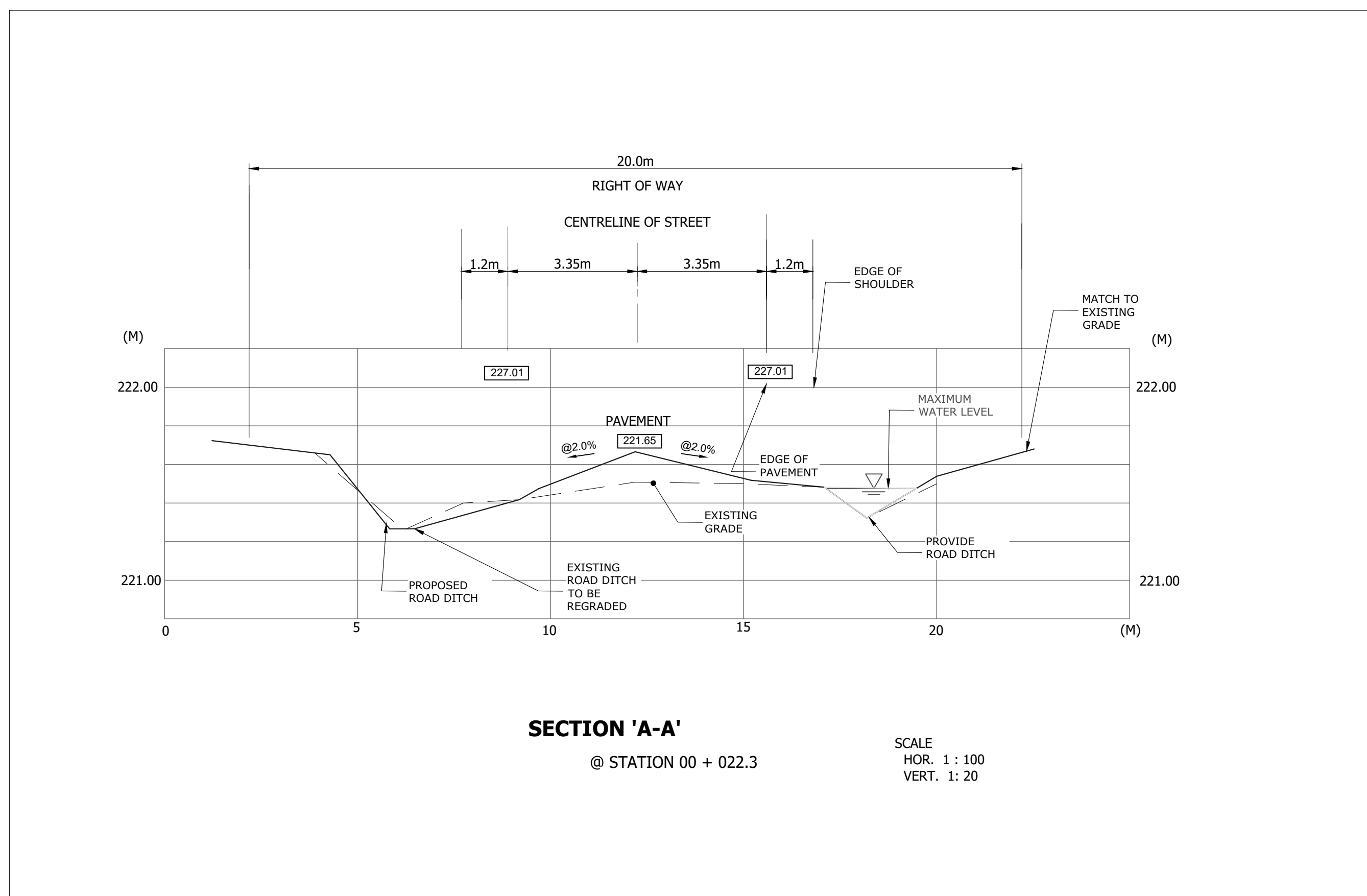
	Peak Flows (m3/sec)					
	2YR	5YR	10YR	25YR	50YR	100YR
Pre	0.0223	0.0292	0.0339	0.0437	0.0484	0.0603
Post	0.0241	0.0316	0.0368	0.0474	0.0525	0.0654
Differences	0.0019	0.0025	0.0029	0.0037	0.0041	0.0051

	Storage Volume Required (m3)					
	2YR	5YR	10YR	25YR	50YR	100YR
	5.74	7.53	8.75	11.30	12.51	15.65

EXISTING ROAD DITCH CAPACITY ANALYSIS:
 DEVELOPMENT: SINGLE RESIDENTIAL BUILDING DRIVEWAY AND ACCESS ROAD EXTENSION
 PEAK FLOW 100 YR STORM EVENT INCREASED BY THE NEW DEVELOPMENT
 $Q = 0.0654 \text{ CUB.M / SEC}$

PROVIDE HDPE CULVERT CAPACITY:
 $Q = 1/n [A R^{4/3} S^{1/2}]$
 WHERE, n = ROUGHNESS COEFFICIENT
 A = SECTIONAL AREA
 R = HYDRAULIC RADIUS
 S = SLOPE OF ENERGY GRADIENT
 450mm DIAMETER HDPE CULVERT CAPACITY @80% FULL (90mm FROM THE TOP OF PIPE)
 n (PVC OR PE) = 0.007
 SLOPE OF CULVERT = 1.1%
 $Q = 0.5565 \text{ CUB.M / SEC}$

PROPOSED DITCH (ON SOUTH SIDE) CAPACITY:
 $Q = 1/n [A R^{4/3} S^{1/2}]$
 WHERE, n = ROUGHNESS COEFFICIENT
 A = SECTIONAL AREA
 R = HYDRAULIC RADIUS
 S = SLOPE OF ENERGY GRADIENT
 ASSUMPTIONS:
 FLOW AT CROSS - SECTION 'A-A'
 SLOPE OF DITCH = AVERAGE 0.5%
 MAXIMUM FLOW AT TOP OF THE DITCH
 CONTINUOUS FLOW WITHOUT OBSTACLE EXCEPT CULVERTS
 n (GRASS) = 0.025
 $Q = 1.05 \text{ CUB.M / SEC}$



ROAD CONSTRUCTION
 LOT 101, R PLAN 302
 ASHWOOD AVENUE
 TOWN OF GEORGINA

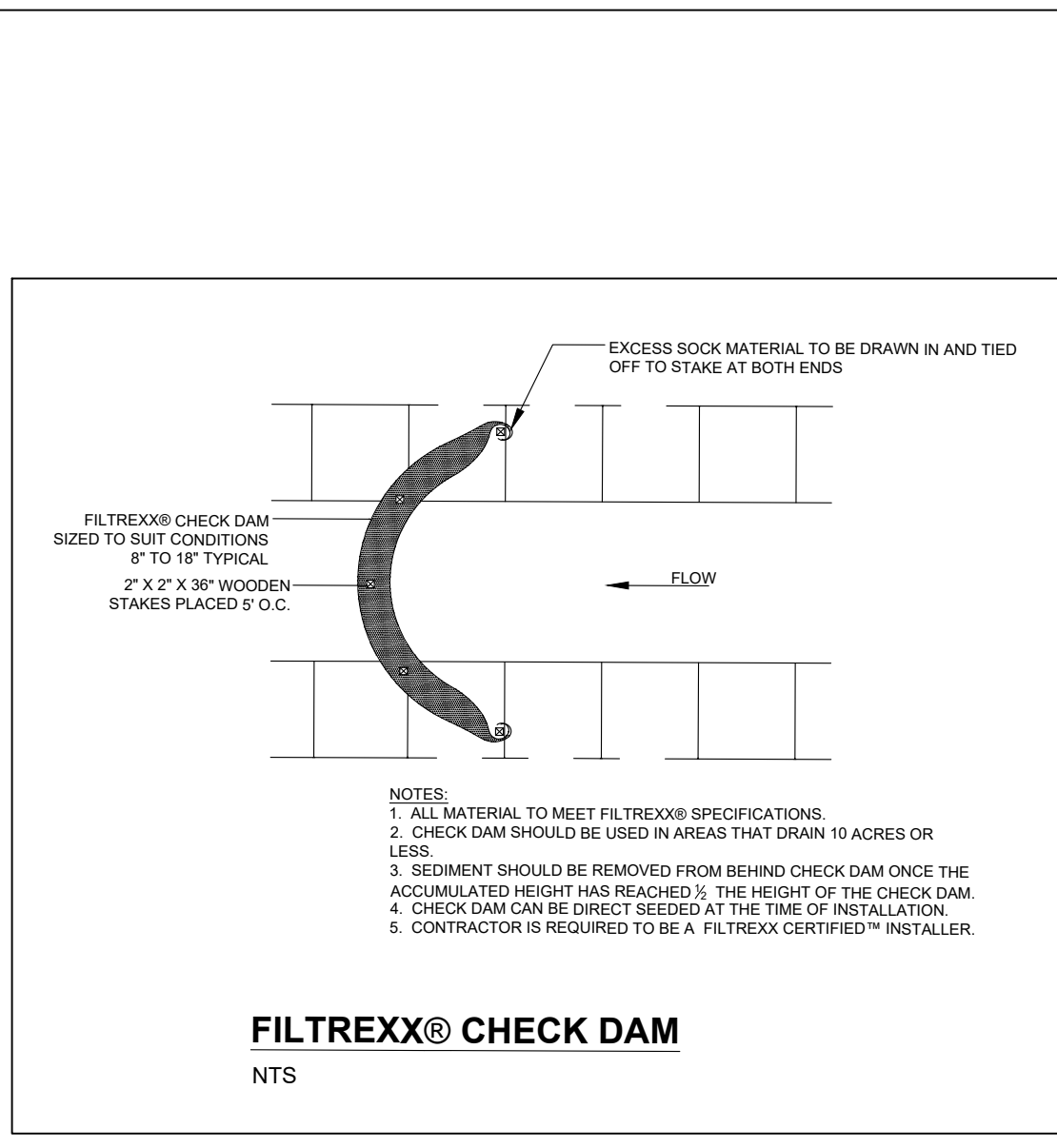
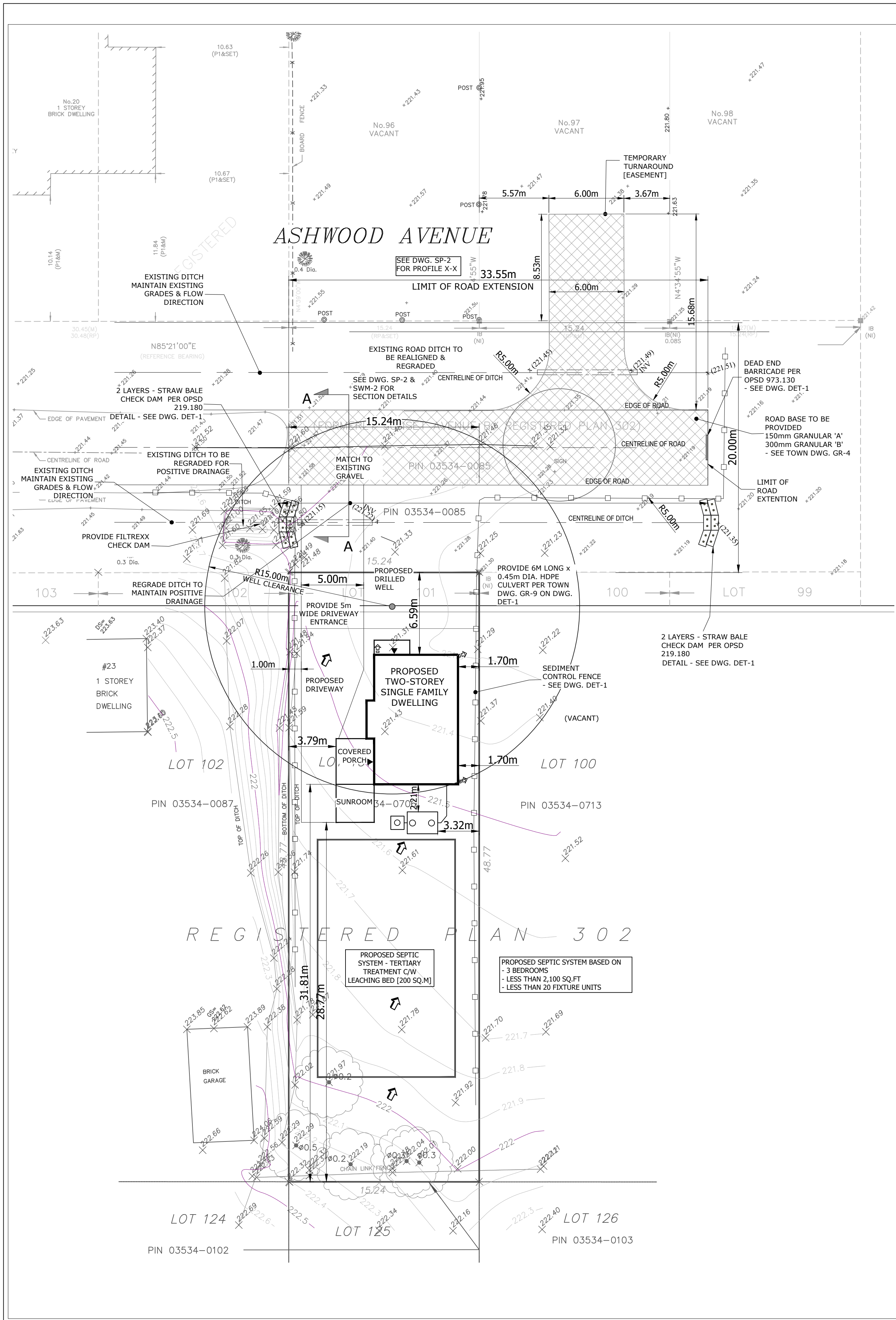
STORM WATER MANAGEMENT PLAN - DETAILS

BJH Engineering Ltd.
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PROJECT NO.: **22-1627**
 DRAWING NO.: **SWM-2**
 Date: APRIL 2023
 Scale: 1 : 200

Designed By: BH
 Drawn By: BH

Report No.
 DS-2024-0042
 Attachment 3
 Page 6 of 9



FILTRIXX® CHECK DAM
NTS

STANDARD NOTES: LSRCA

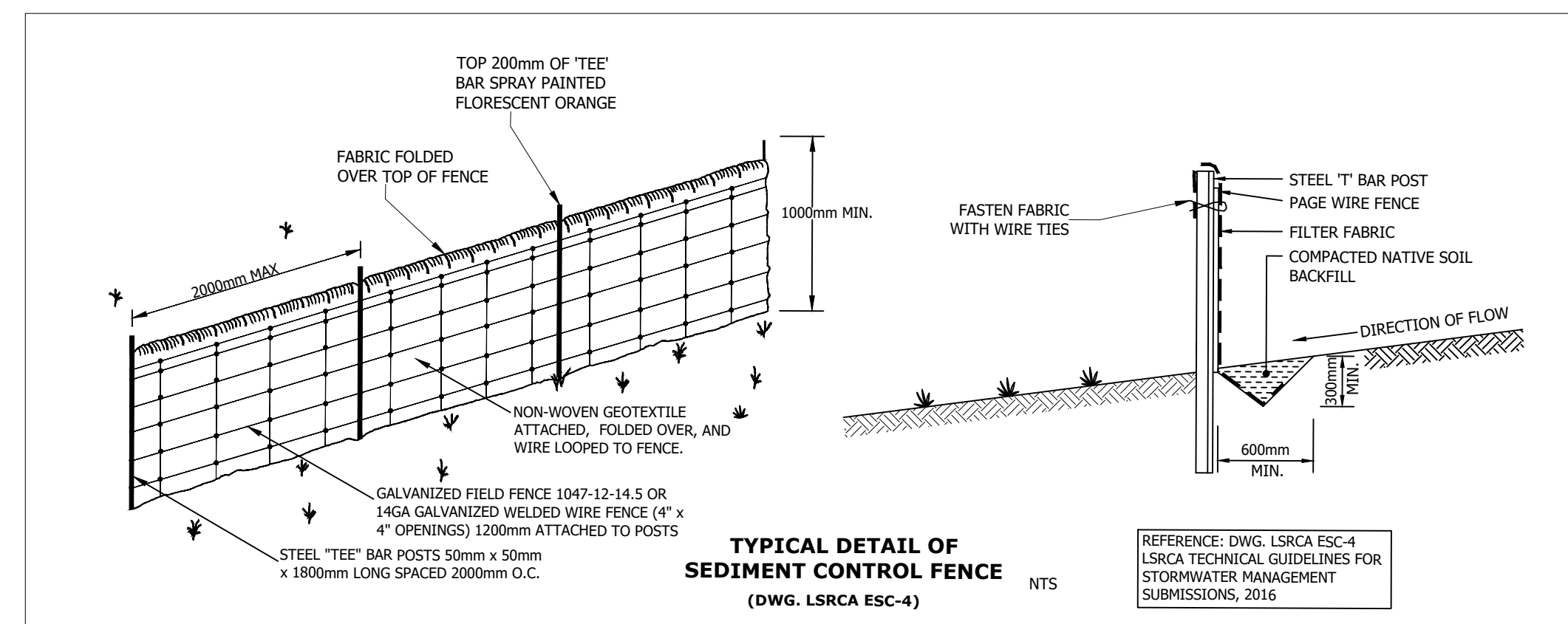
1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
2. DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
3. ALL IN-WATER AND NEAR WATER WORKS WILL BE CONDUCTED IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
4. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. LSRCA ENFORCEMENT OFFICERS SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
5. AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS, AS WELL AS ON A REGULAR BASIS, OR FOLLOWING RAIN/SNOWMELT EVENT, TO MONITOR ALL WORKS, AND IN PARTICULAR WORKS RELATED TO EROSION AND SEDIMENT CONTROLS, DEWATERING OR UNWATERING, RESTORATION AND IN-OR-NEAR-WATER WORKS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR WILL CONTACT THE LSRCA ENFORCEMENT OFFICER AS WELL AS THE PROPONENT.
6. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
7. ALL GRADES WITHIN THE REGULATORY FLOOD PLAN WILL BE MAINTAINED OR MATCHED.
8. THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G., FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
9. ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
10. ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY LSRCA.

GENERAL NOTES - EROSION & SEDIMENT CONTROL:

1. REVEGETATION OF THE SITE TO BE APPLIED AS PER OPS 804 IMMEDIATELY AFTER COMPLETION OF GRADING.
2. INSPECT SEDIMENT CONTROL DEVICES AFTER RAINFALL EVENTS (13mm OR GREATER) AND AT LEAST BI-WEEKLY.
3. REMOVE STRAW BALE RIP RAP DAMS AND ALONG LOCATIONS AS SHOWN WHEN THEY BECOME 50% CLOGGED.
4. INSTALLATION AND MAINTENANCE OF SILT FENCES AROUND THE PERIMETER OF THE SITE SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD. SILT FENCE WILL BE AS PER OPSD 219.130 OR LSRCA ESC.
5. NO CONSTRUCTION ACTIVITY OR MACHINERY TO OPERATE OUTSIDE THE SILT FENCING.
6. SILT FENCE WILL BE REMOVED ONLY AFTER SITE HAS BEEN STABILIZED AND PAVING OPERATIONS ARE COMPLETED.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ESC MEASURES IN WORKING CONDITIONS AT ALL TIMES TO THE SATISFACTION OF THE CONSULTING ENGINEER.
8. ALL CONSTRUCTION VEHICLES MUST ENTER AND EXIT THE SITE VIA MUD MAT AS SHOWN ON ESC PLAN.
9. EROSION CONTROL FENCING TO BE INSTALLED AROUND THE BASE OF ALL STOCKPILES.
10. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE CONSULTING ENGINEER AND THE LSRCA.
11. ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.

GENERAL NOTES - EROSION & SEDIMENT CONTROL:

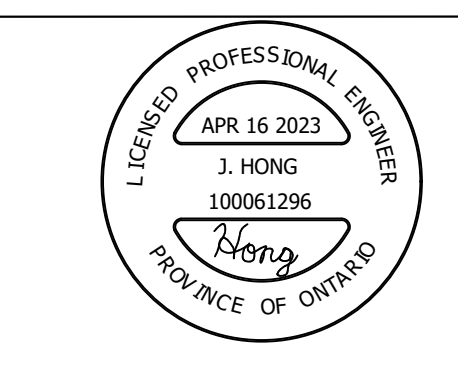
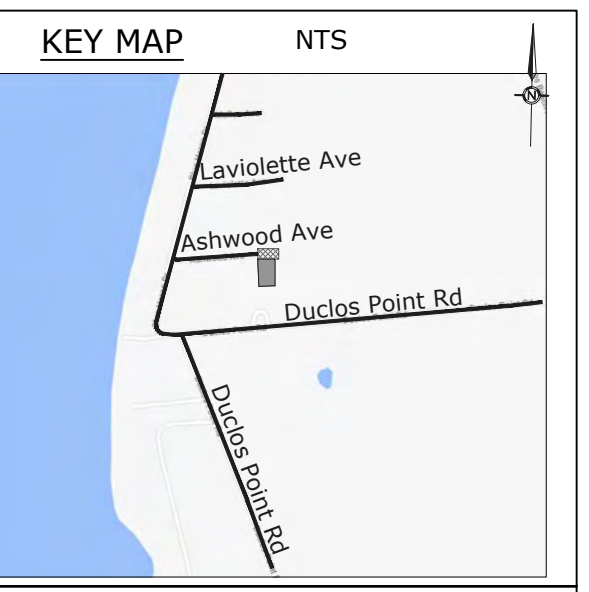
1. REVEGETATION OF THE SITE TO BE APPLIED AS PER OPS 804 IMMEDIATELY AFTER COMPLETION OF GRADING.
2. INSPECT SEDIMENT CONTROL DEVICES AFTER RAINFALL EVENTS (13mm OR GREATER) AND AT LEAST BI-WEEKLY.
3. INSTALLATION AND MAINTENANCE OF SILT FENCES AROUND THE PERIMETER OF THE SITE SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD. SILT FENCE WILL BE AS PER OPSD 219.130.
4. NO CONSTRUCTION ACTIVITY OR MACHINERY TO OPERATE OUTSIDE THE SILT FENCING.
5. SILT FENCE WILL BE REMOVED ONLY AFTER SITE HAS BEEN STABILIZED AND RESTORATION OPERATIONS ARE COMPLETED.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ESC MEASURES IN WORKING CONDITIONS AT ALL TIMES TO THE SATISFACTION OF THE CONSULTING ENGINEER.
7. ALL CONSTRUCTION VEHICLES MUST ENTER AND EXIT THE SITE VIA MUD MAT AS SHOWN ON ESC PLAN.
8. EROSION CONTROL FENCING TO BE INSTALLED AROUND THE SLOPE.
9. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE CONSULTING ENGINEER AND THE LSRCA.



TYPICAL DETAIL OF SEDIMENT CONTROL FENCE
(DWG. LSRCA ESC-4)
NTS

NOTES:

1. SEDIMENT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
2. SEDIMENT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 CHART F4-3C TOPOGRAPHIC FACTOR LS BASED ON SLOPE LENGTH AND GRADIENT.
3. SEDIMENT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TOED INTO THE SOIL A MIN. OF 300mm BY EITHER STATIC SLICING OR TRENCH METHODS WITH COMPACTION OF TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% STANDARD PROCTOR DENSITY.
4. STEEL "T" BAR POSTS ARE TO BE SPACED A MAXIMUM DISTANCE OF 2000mm ON CENTER.
5. FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
6. GEOTEXTILE FABRIC TO BE COMPRISED OF NON-WOVEN U.V. STABILIZED MATERIAL FABRIC TO BE FOLDED OVER TOP OF FENCE A MINIMUM OF 300mm AND WIRE FASTENED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.



ROAD CONSTRUCTION
LOT 101, R PLAN 302
ASHWOOD AVENUE
TOWN OF GEORGINA

EROSION & SEDIMENT CONTROL PLAN

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PROJECT NO.: **21-1383**
DRAWING NO.: **ESC-1**
Date: APR 2023
Scale: 1 : 200
Designed By: BH
Drawn By: BH

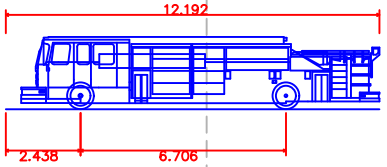
Report No. DS-2024-0042
Attachment 3
Page 7 of 9

Ashwood Avenue is to be constructed as per the Town of Georgina 'Typical Rural Cross-Section A-A' standards, refer to Dwg. D-1 for details.

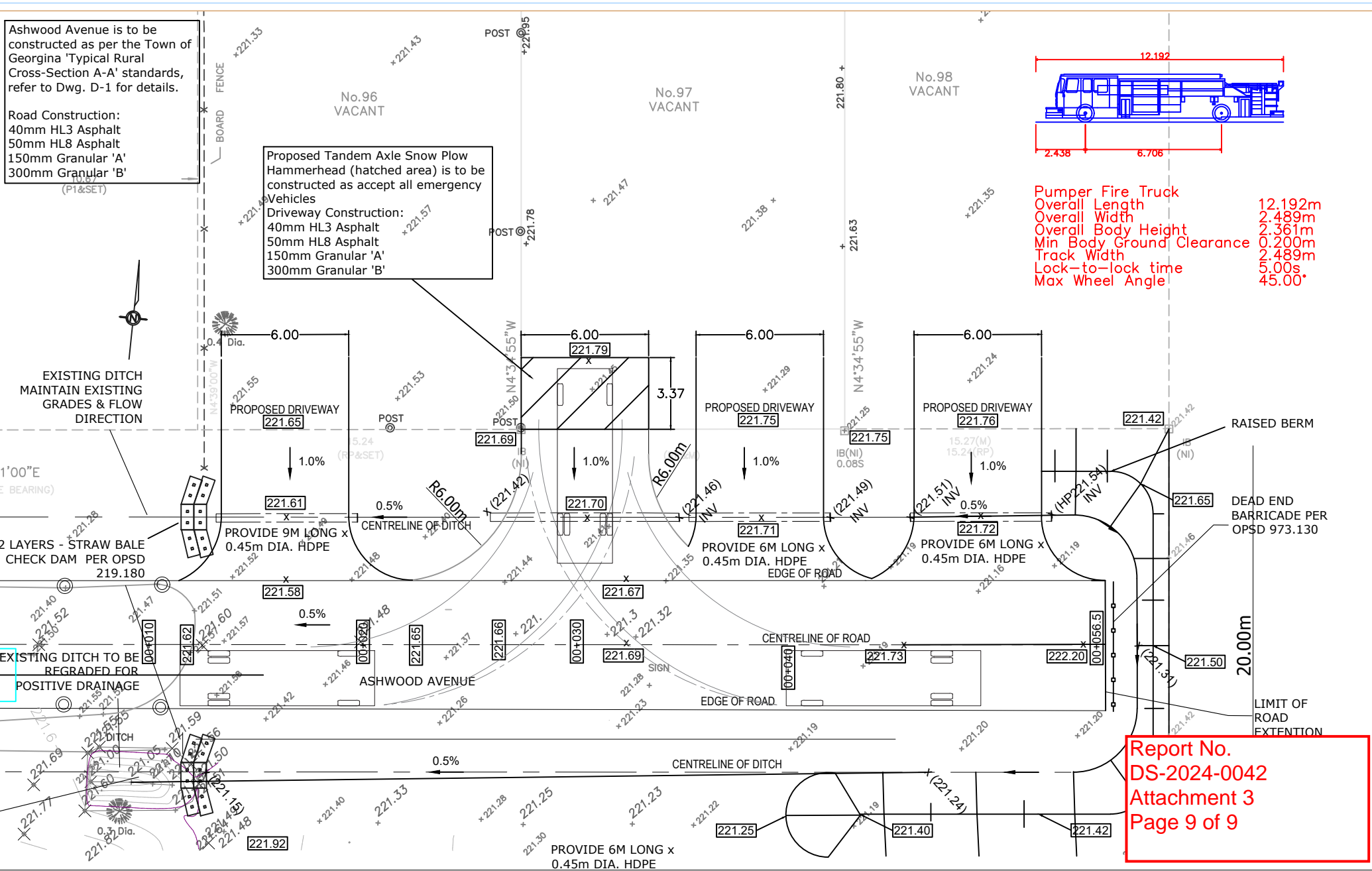
Road Construction:
 40mm HL3 Asphalt
 50mm HL8 Asphalt
 150mm Granular 'A'
 300mm Granular 'B'
 (P1&SET)

Proposed Tandem Axle Snow Plow Hammerhead (hatched area) is to be constructed as accept all emergency Vehicles

Driveway Construction:
 40mm HL3 Asphalt
 50mm HL8 Asphalt
 150mm Granular 'A'
 300mm Granular 'B'



Pumper Fire Truck
 Overall Length 12.192m
 Overall Width 2.489m
 Overall Body Height 2.361m
 Min Body Ground Clearance 0.200m
 Track Width 2.489m
 Lock-to-lock time 5.00s
 Max Wheel Angle 45.00°



Report No. DS-2024-0042
 Attachment 3
 Page 9 of 9



31 - 35 CEDAR POINTE DRIVE, BARRIE, ON, L4N 5R7
 Telephone: 705-259-5380
 Email: info@dahlgroupengineering.ca

No.	Description	Date
1	ISSUED FOR TWN SUBMISION	NOV. 9, 2023



THE WORK OUTLINED ON THIS SHEET MUST BE CONSIDERED IN CONJUNCTION WITH ALL OTHER SHEETS FORMING THIS DRAWING SET AND ANY DOCUMENTS ISSUED WITH THIS SET OR REFERENCED HEREIN

GR-1	GRADING PLAN
PROJECT ADDRESS: ASHWOOD AVENUE	
OWNER: N/A	
PROJECT No.: DGE22201	Scale:

ROAD EXTENSION