

PLAN SCALE 1: 1,500

GENERAL NOTES

- 1/ OUR SPECIFICATIONS DATED NOVEMBER 2000 APPLY TO THIS PROJECT.
 - 2/ THE WORKING WIDTH AVAILABLE TO THE CONTRACTOR TO CONSTRUCT THE NEW DRAINS SHALL CONSIST OF THOSE LANDS IMMEDIATELY ADJACENT TO THE DRAIN AND CONNECTIONS AND SHALL NOT EXCEED THE FOLLOWING AVERAGE WIDTHS:
 - OPEN PORTIONS-BUSH AREAS - 12 METERS TOTAL
 - CLOSED PORTIONS - 15 METERS
 THE WORKING WIDTH FOR PURPOSES OF FUTURE MAINTENANCE SHALL BE 10 m FOR CLOSED AND OPEN PORTIONS.
 - 3/ ALL OWNERS ALONG THE COURSE OF THE DRAIN SHALL MAKE AN ACCESS ROUTE FROM THE NEAREST ROAD TO THE DRAIN LOCATION AVAILABLE TO THE CONTRACTOR THE AVERAGE WIDTH OF THIS ROUTE SHALL NOT EXCEED 8 METERS. THE ACCESS ROUTE SHALL ALSO APPLY FOR FUTURE MAINTENANCE PURPOSES.
 - 4/ TREES ARE TO BE REMOVED ONLY AS NECESSARY TO ALLOW EQUIPMENT TO DIG DITCH & SWALES IN THE WOODS STA. 0+200 TO 0+500.
 - 5/ QUARRY STONE SHALL RANGE IN SIZE FROM 150mm TO 300mm EVENLY DISTRIBUTED AND SHALL BE PLACED TO A 300mm THICKNESS ON A SUITABLE FILTER BLANKET AT A 1:5:1 SLOPE UNLESS OTHERWISE NOTED. FILTER BLANKET TO BE "MIRAFI 160'N" OR APPROVED EQUAL.
 - 6/ CONTRACTOR TO ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, DRAINAGE SUPERINTENDENT, AND THE AFFECTED OWNERS. ALL PARTIES SHALL RECEIVE 48 HOURS NOTICE TO THE MEETING.
- CLOSED PORTIONS**
- 1/ ALL CONCRETE TILE TO BE A.S.T.M. C42 EXTRA-QUALITY PLUS 25% UNLESS OTHERWISE NOTED.
 - 2/ ALL PLASTIC FARM TILE AND "TEES" TO BE IN ACCORDANCE WITH ASTM D1248 WITH A MINIMUM STIFFNESS OF 110 KPa AND 210 KPa @ 5% DEFLECTION AS PER ASTM D142.
- 8/ a) EXACT LOCATION AND ELEVATIONS OF NEW CATCH BASINS TO BE CONFIRMED BY ENGINEER OR DRAINAGE SUPERINTENDENT.
 - b) CATCHBASINS TO HAVE "BIRD CAGE" TYPE GRATES WHICH ARE TO BE SECURED WITH NON-CORROSIVE FASTENERS.
 - c) CONSTRUCT COMPACTED & SEEDED CLAY BERMS BEHIND ALL DITCH INLET CATCHBASINS. BERMS TO BE KEED 300mm INTO UNDISTURBED SOIL.
 - d) THERE SHALL BE ONE 150mm RISER SECTION BETWEEN THE SLOPE TOP RISER AND THE BASE OF ALL DITCH INLET CATCHBASINS.
- 9/ a) EXACT LOCATION OF NEW TILE DRAIN TO BE DETERMINED AT TIME OF CONSTRUCTION BY DRAINAGE SUPERINTENDENT OR ENGINEER.

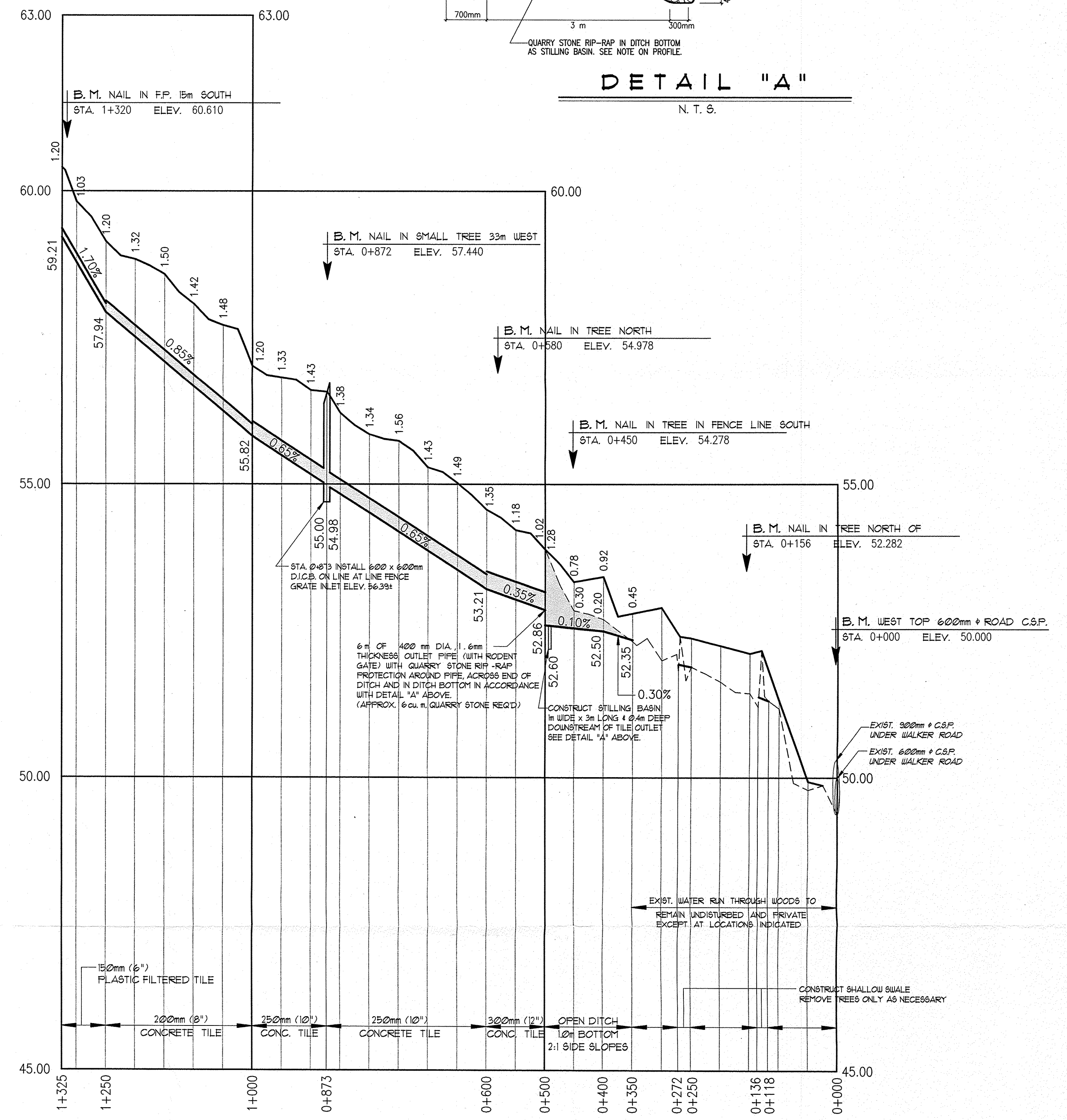
10/ a) TRENCH BOTTOM FOR CONCRETE TILE SHALL BE SHAPED TO CONFORM TO THE OUTSIDE DIAMETER OF THE PIPE FOR A MINIMUM WIDTH OF ONE-HALF OF THE OUTSIDE DIAMETER.

 - b) THE MINIMUM TRENCH WIDTH SHALL BE EQUAL TO THE OUTSIDE DIAMETER OF THE TILE TO BE INSTALLED PLUS 100mm (4") ON EACH SIDE UNLESS OTHERWISE APPROVED.
 - c) THE MAXIMUM TRENCH WIDTH SHALL BE EQUAL TO THE OUTSIDE DIAMETER OF THE TILE TO BE INSTALLED PLUS 250mm (10") ON EACH SIDE. WIDER MAXIMUM TRENCH WIDTHS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 - d) ALL JOINTS BETWEEN CONCRETE TILES, AND CONCRETE TILE & VARIOUS PIPES, ARE TO BE SECURELY AND COMPLETELY WRAPPED WITH GEOTEXTILE SUCH AS "MIRAFI 160'N" OR EQUIVALENT. THE GEOTEXTILE SHALL BE 300mm WIDE FOR TILE SIZES OF 150mm TO 300mm AND 400mm WIDE FOR TILE SIZES OF 350mm TO 150mm. THE ENDS OF THE WRAP AT EACH JOINT SHALL OVERLAP A MINIMUM OF 100mm.
 - e) NO TILE SHALL BE BACKFILLED UNTIL INSPECTED BY THE ENGINEER OR MUNICIPALITY UNLESS OTHERWISE APPROVED BY THE ENGINEER.

OPEN PORTIONS

 - 1/ NEWLY RECONSTRUCTED DITCH BANKS STA. 0+350 TO 0+500 ARE TO BE SEEDED UPON COMPLETION OF CONSTRUCTION WITH THE FOLLOWING SEED MIXTURE AND APPLICATION RATES:

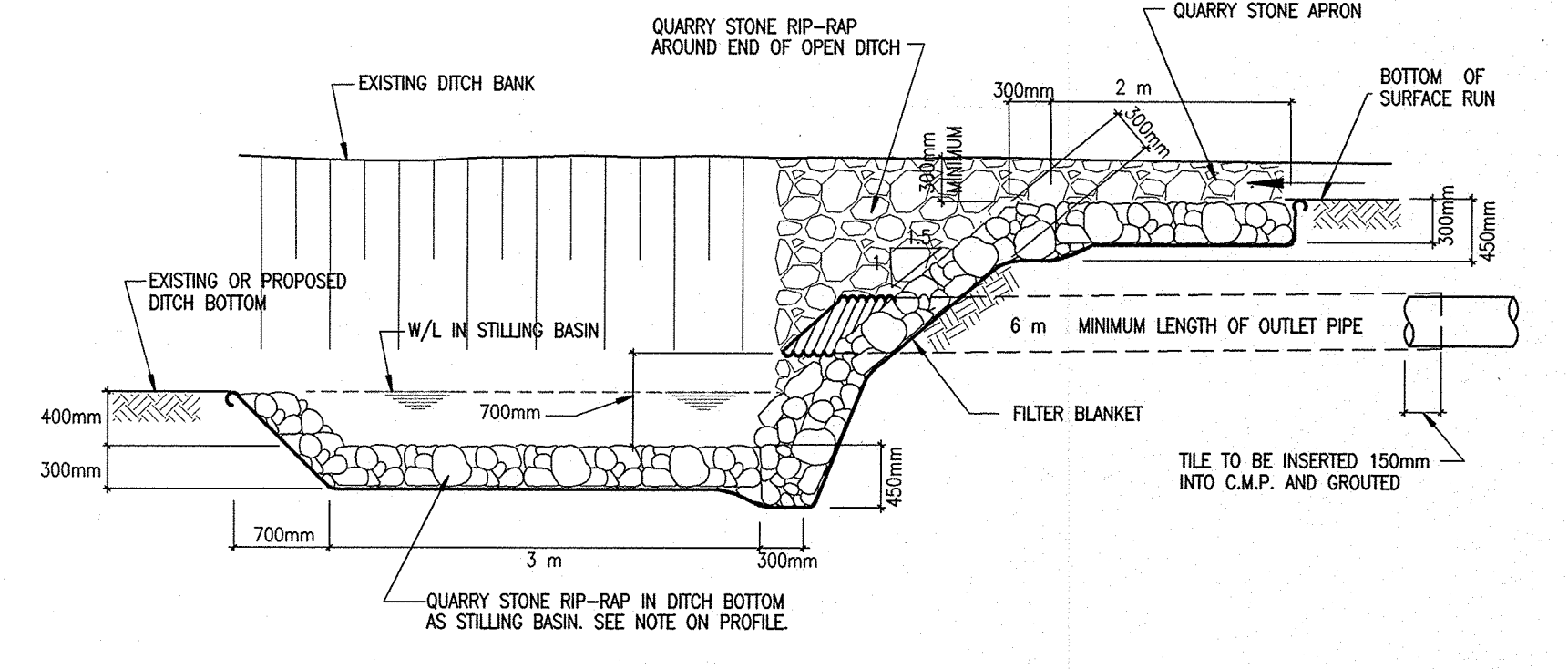
PRIMARY SEED	50% CREEPING RED FESCUE (25 Kg / Ha.)	40% PERENNIAL RYEGRASS
NURSE CROP	5% WHITE CLOVER	ITALIAN (ANNUAL) RYE GRASS AT 25% OF TOTAL WEIGHT



MAIN DRAIN PROFILE SCALE: HOR. 1: 5000 VERT. 1: 50

PLAN LEGEND

[Symbol]	LIMIT OF WATERSHED AREA
[Symbol]	PROPOSED DRAINAGE WORKS
[Symbol]	EXTERIOR OR INTERIOR WATERSHED
[Symbol]	EXIST. DRAIN TO NEIGHAN PRIVATE
[Symbol]	EXIST. MUNICIPAL DRAIN
[Symbol]	PRIVATE TILE OR SURFACE WATER RUN
[Symbol]	EXIST. WATERCOURSE OR PRIVATE DITCH
[Symbol]	ASSESSMENT ROLL NUMBER
[Symbol]	OWNER'S NAME
[Symbol]	HECTARES OWNED
[Symbol]	BUSH AREA



DETAIL "A" N.T.S.

Drainage Superintendent: DON WEIR (Tel. 519-773-5344)

GOODHUE DRAIN
TOWNSHIP OF MALAHIDE

Drawn By: J.N.H.	Field Book: B135	JOB No.: 201170	Drawing No.: 1 of 1
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PLAN & PROFILE

SPRIET ASSOCIATES LIMITED
CONSULTING ENGINEERS
155 YORK STREET - LONDON (519) 672-4100 - M6A 1A8