

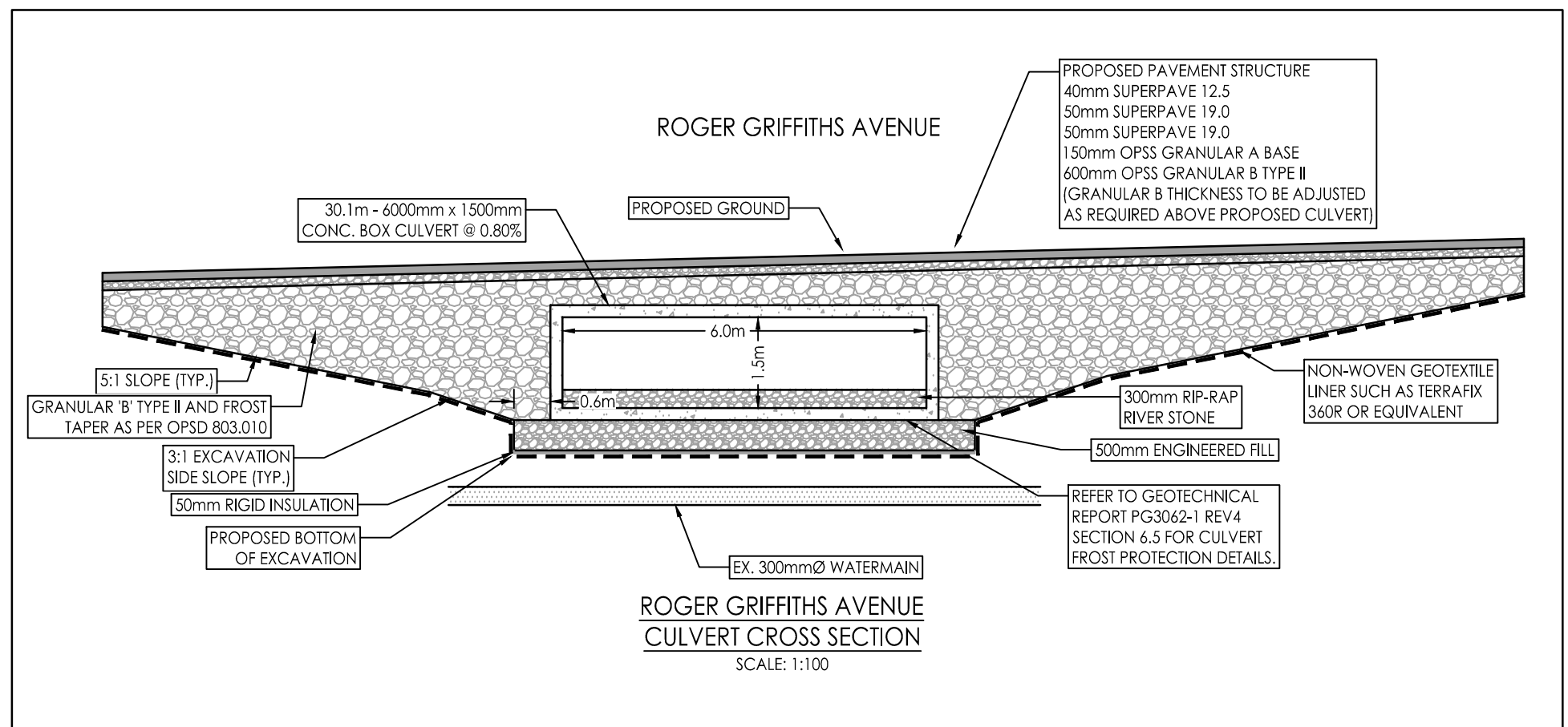
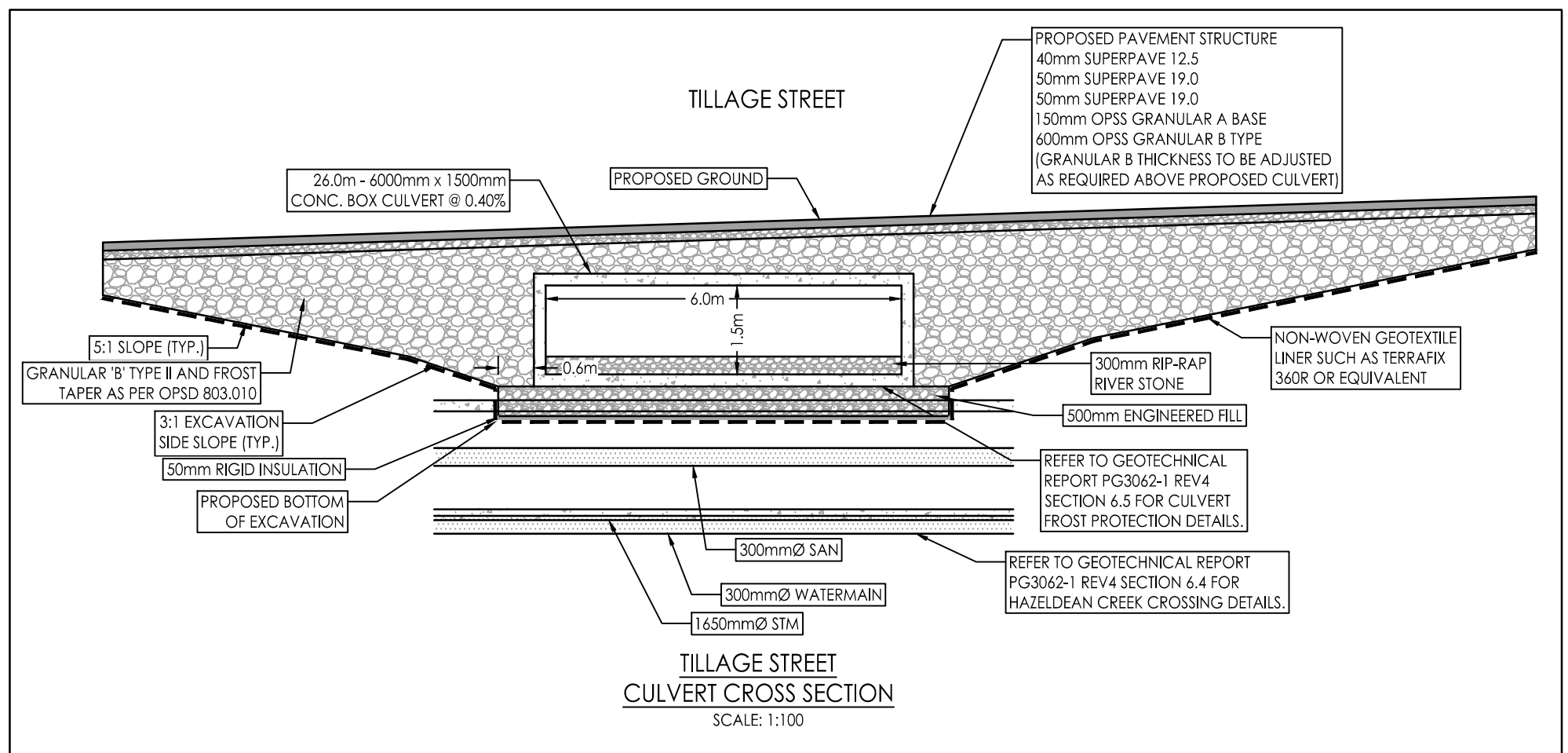
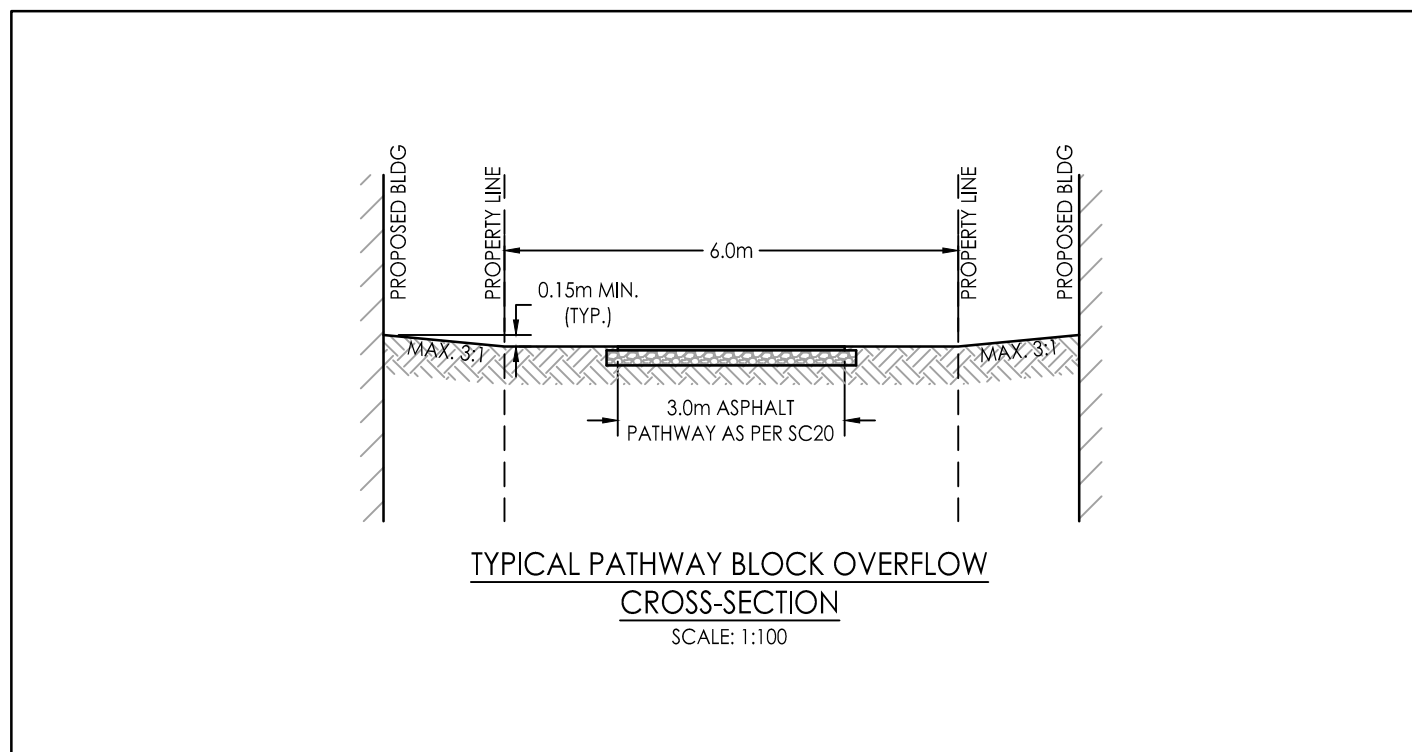
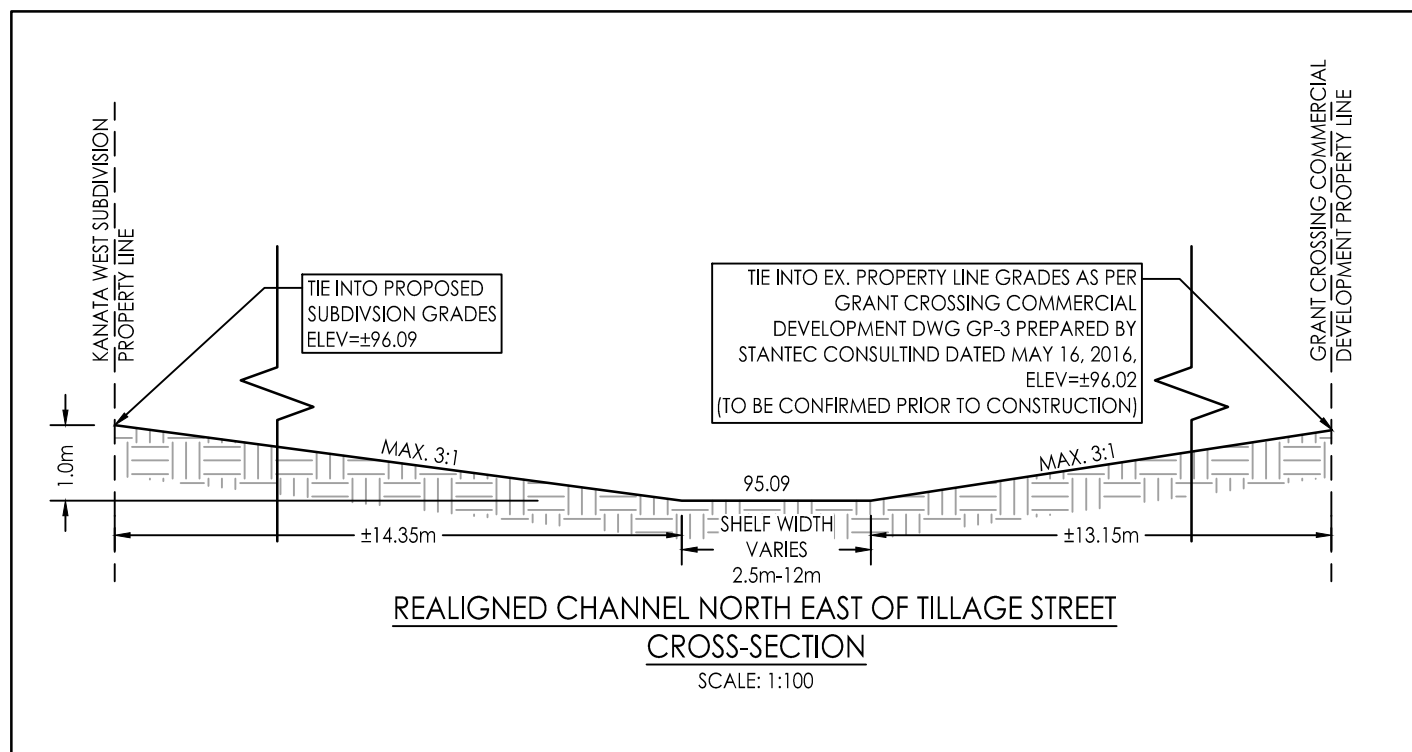
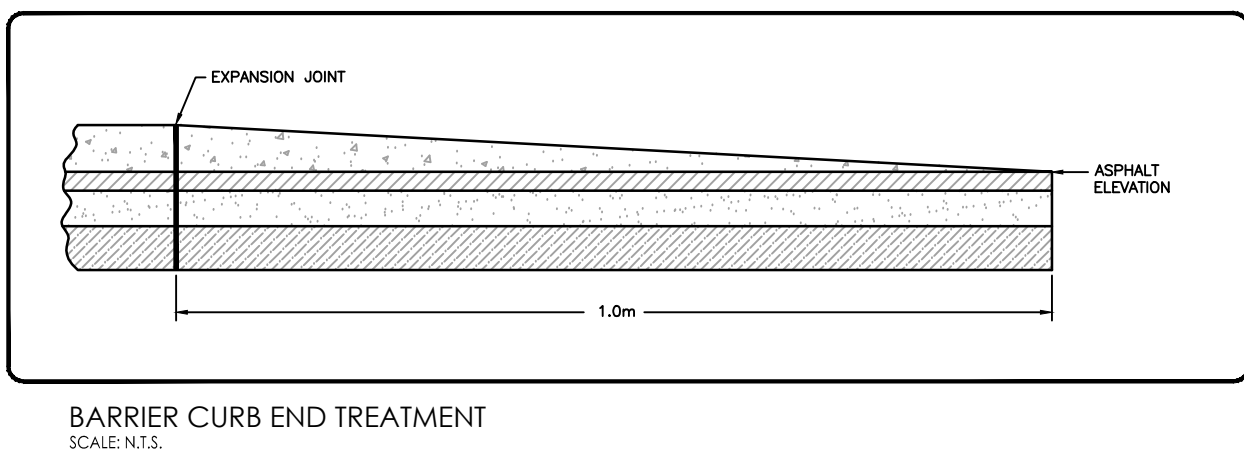
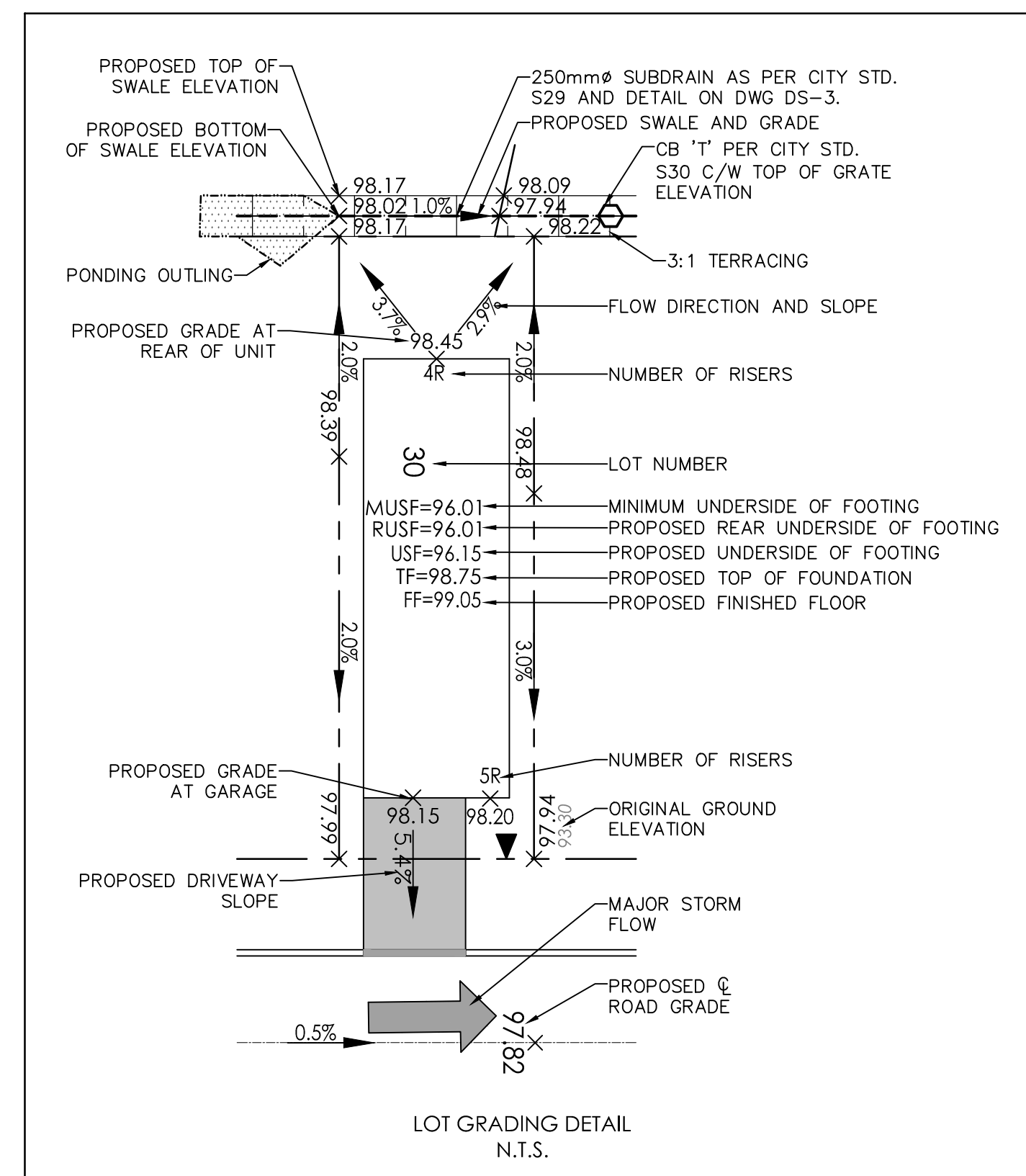
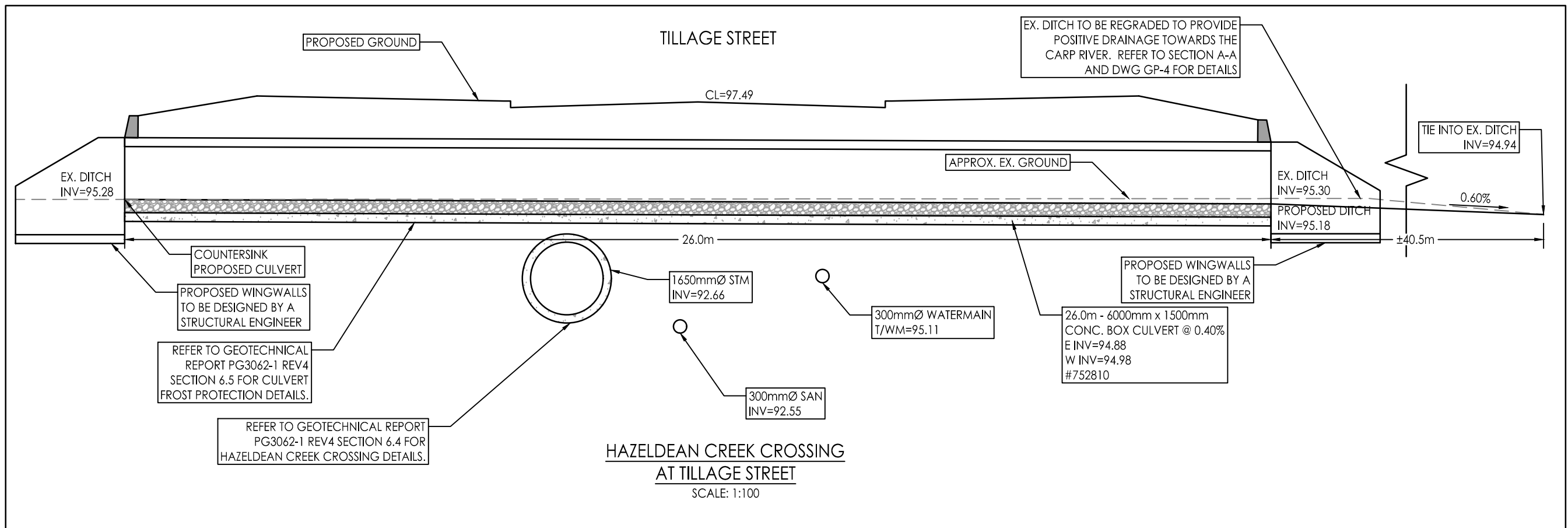
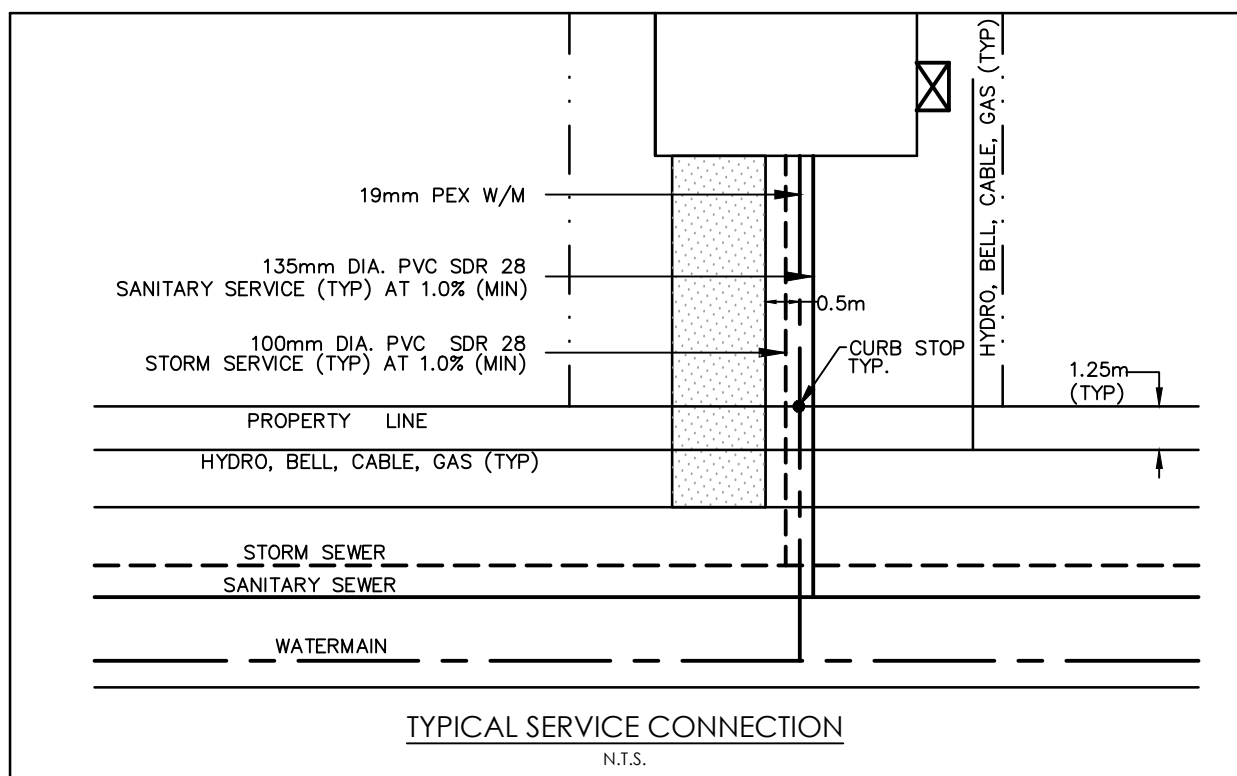
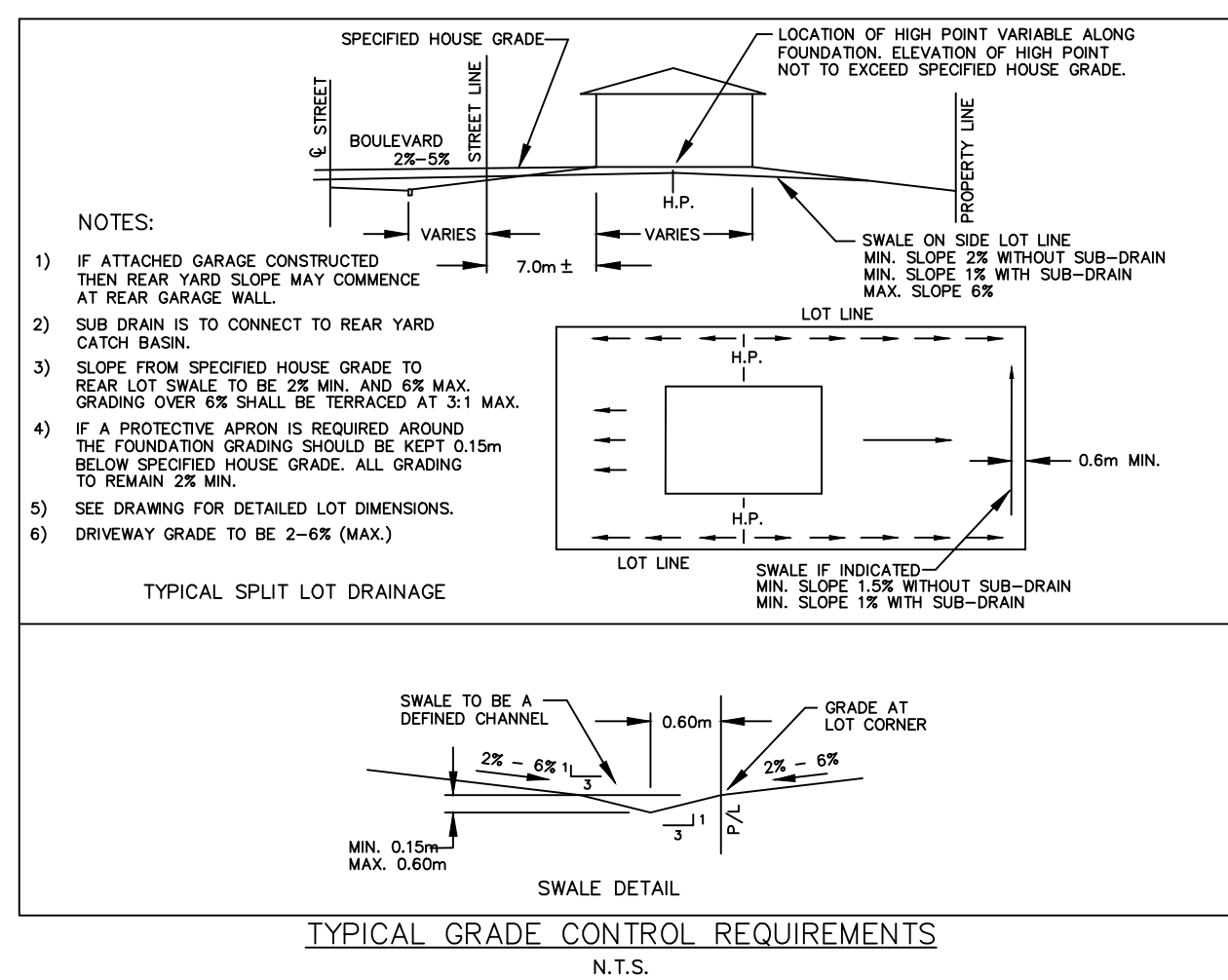
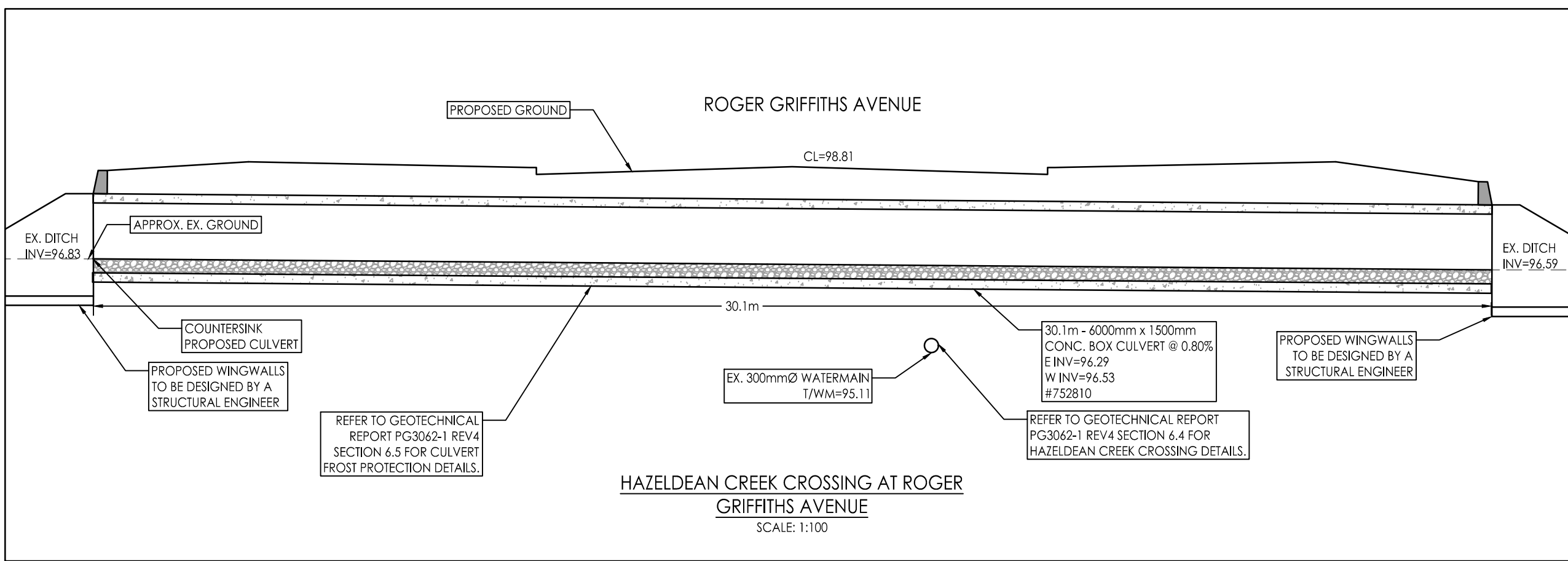
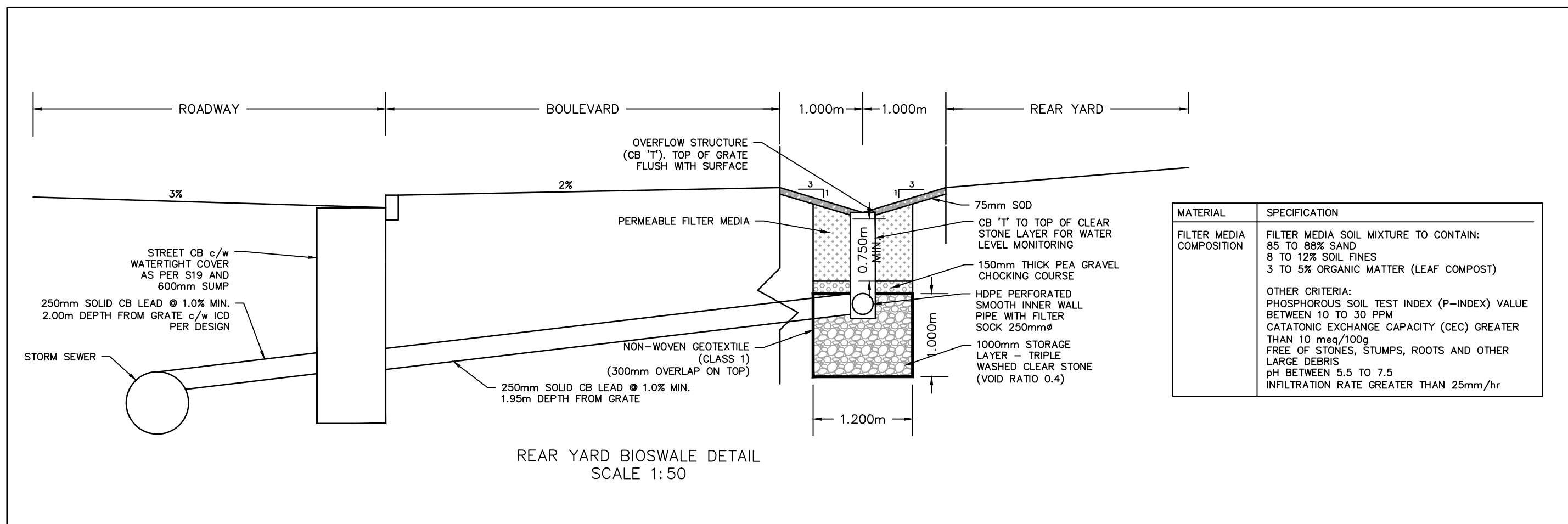
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Legend

HAZELDEAN CREEK CROSSINGS - GEOTECHNICAL RECOMMENDATIONS
[PG3062-1, REV 4, MAY 2019]

- A NON-WOVEN GEOTEXTILE LINER, SUCH AS A TERRAFIX 360R OR EQUIVALENT, SHOULD BE PLACED OVER THE SUBGRADE PRIOR TO PLACING THE GRANULAR BEDDING.
- A MINIMUM 500 mm THICK LAYER OF ENGINEERED FILL SHOULD BE PLACED AS A BEDDING LAYER FOR THE CULVERT.
- ENGINEERED FILL SHOULD BE PLACED UNDER DRY CONDITIONS AND SHOULD CONSIST OF GRANULAR 5 TYPE II MATERIAL PLACED IN MAXIMUM 300 mm THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMD) WITH A MINIMUM 150 mm THICK LAYER OF GRANULAR A CRUSHED STONE PLACED AT THE CULVERT BEDDING LEVEL.
- THE CULVERT MANUFACTURER MAY HAVE SPECIFIC BACKFILL MATERIAL REQUIREMENTS AS WELL AS SPECIFIC MATERIAL PLACEMENT REQUIREMENTS. THESE SPECIFIC REQUIREMENTS SHOULD BE MET TO ENSURE THE PROPER PERFORMANCE OF THE PROPOSED STRUCTURE.
- GENERALLY, ONLY LIGHT COMPACTION EQUIPMENT SHOULD BE USED IMMEDIATELY BESIDE THE WALLS OF THE STRUCTURE TO AVOID EXCESSIVE COMPACTION INDUCED EARTH PRESSURE ON THE WALL, AND THE BACKFILL MATERIALS SHOULD BE PLACED IN A MANNER TO AVOID A DIFFERENTIAL OF MORE THAN APPROXIMATELY 300 mm BETWEEN THE LEVELS OF THE BACKFILL MATERIALS ON BOTH SIDES OF THE CULVERT.
- AN ENGINEERED FILL, SUCH AS A GRANULAR 5 TYPE I (PIT RUN), GRANULAR 5 TYPE II OR GRANULAR A CRUSHED STONE CAN BE USED FOR BACKFILLING PURPOSES ABOVE THE PROPOSED BOX CULVERT. ALSO, UNLESS OTHERWISE SPECIFIED, THE BACKFILL PLACED BENEATH THE PAVEMENT GRANULARS SHOULD BE COMPACTED TO AT LEAST 95% OF THE SPMD.
- IT IS RECOMMENDED THAT A 50 mm THICK SM RIGID INSULATION BOARD BE INSTALLED BETWEEN THE SUBGRADE AND THE BEDDING LAYER. THE INSULATION SHALL BE THE SAME WIDTH AND EXTENDING THE ENTIRE LENGTH OF THE CULVERT.
- IT IS RECOMMENDED THAT A FROST TAPER BE PROVIDED AS PART OF THE BACKFILLING PROGRAM. IT IS RECOMMENDED THAT A FROST TAPER STARTING AT THE FROST LINE (APPROXIMATELY 2.1 m BELOW FINISHED GRADE) EXTEND ALONG A MINIMUM 5H:1V SLOPE LEADING TO SUBGRADE LEVEL OF THE PAVEMENT STRUCTURE. BACKFILL WITHIN THE FROST TAPER SHOULD CONSIST OF CLEAN IMPORTED GRANULAR FILL, SUCH AS OPS5 GRANULAR A OR GRANULAR 5 TYPE I (PIT RUN) OR II. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM LIFT THICKNESS OF 300 mm AND COMPACTED TO A MINIMUM 95% OF ITS SPMD.



8	ISSUED FOR APPROVAL	WAJ	SGG	25.09.26
7	REVISED DRAFT PLAN	WAJ	SGG	25.07.10
6	REVISED DRAFT PLAN	WAJ	SGG	23.12.14
5	REVISED AS PER CITY COMMENTS	WAJ	SGG	22.08.23
4	ISSUED FOR TENDER	WAJ	SGG	22.07.22
3	REVISED AS PER CITY COMMENTS	WAJ	SGG	22.05.09
2	REVISED AS PER CITY COMMENTS	WAJ	SGG	21.07.07
1	ISSUED FOR FIRST SUBMISSION	WAJ	SGG	20.11.24
Revision		DS	By	Appd.
File Name: 1060401393-D8		WAJ	SGG	WAJ
Permit-Seal		Dwn.	Chkd.	Dsgn.

Client/Project

RICH CRAFT HOMES
SECOND REGISTRATION PHASE

RICH CRAFT KANATA WEST
1620 MAPLE GROVE ROAD
OTTAWA, ON

Title

DETAIL SHEET

Project No.

160401393

Scale

N.T.S.

Drawing No.

DS-3

Sheet

36 of 44

Revision

8