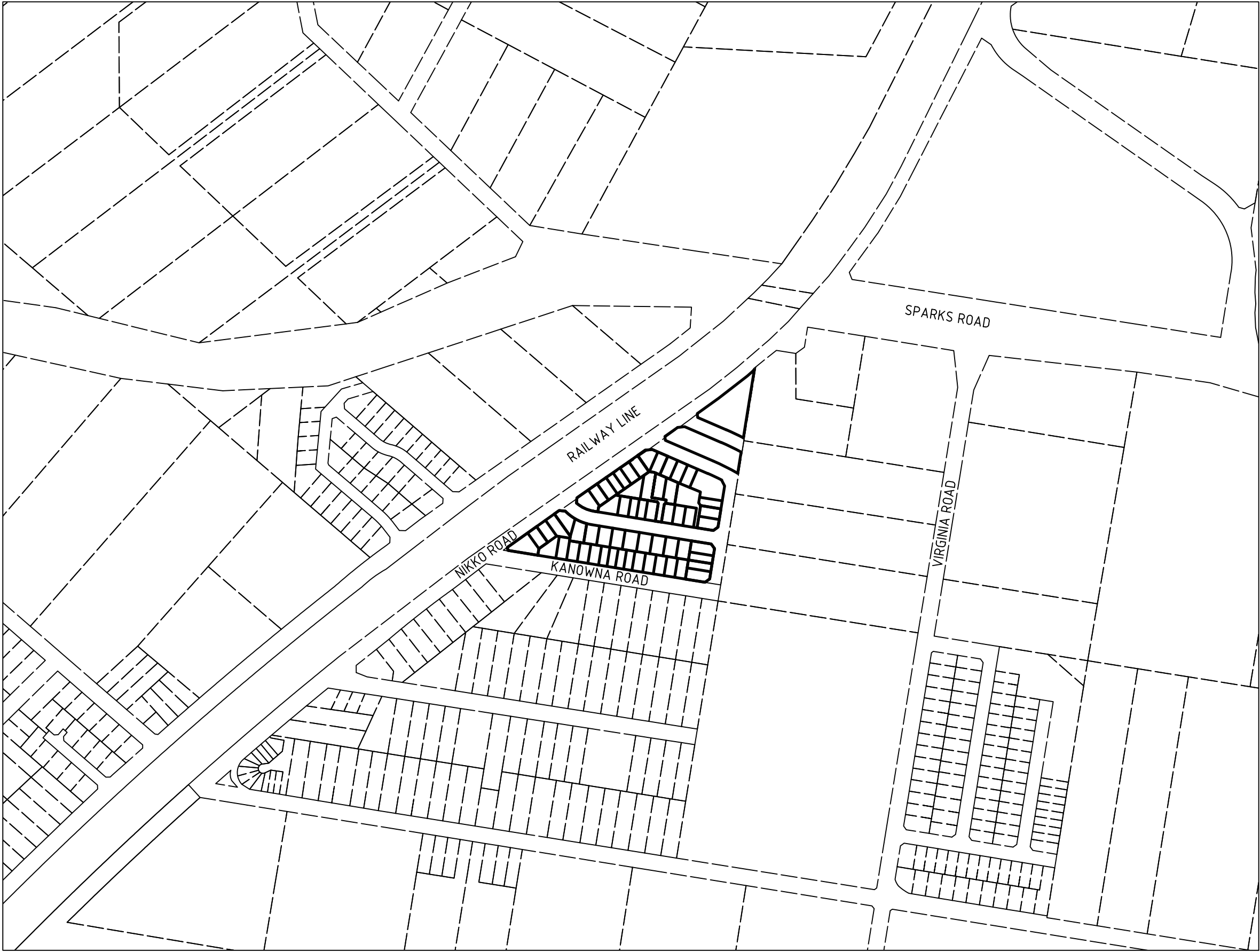


CONCEPT CIVIL WORKS DETAILS

(FOR DEVELOPMENT APPLICATION)

SUBDIVISION & HOUSING DEVELOPMENT

LOT 1 DP 349727, 27-61 NIKKO ROAD, WARNERVALE



LOCATION PLAN

GENERAL NOTES

- DRAWINGS ARE CONCEPTUAL ONLY AND HAVE BEEN PREPARED TO SUPPORT A DEVELOPMENT APPLICATION TO COUNCIL. DETAILS MAY CHANGE AS PART OF THE FUTURE DETAILED DESIGN WORK.
- DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ASSOCIATED REPORTS AND SUPPORTING DOCUMENTATION BY DALY.SMITH AND OTHER CONSULTANTS.
- ARCHITECTURAL BASED ADOPTED FROM DESIGN BY SHADDOCK ARCHITECTS.
- SURVEY INFORMATION ADOPTED FROM SURVEY BY DALY.SMITH.

| DRAWING SCHEDULE | |
|------------------|-------------------------------------|
| DRAWING NUMBER | DRAWING TITLE |
| C01 | COVER SHEET & DRAWING SCHEDULE |
| C02 | SITE PLAN |
| C03 | EROSION & SEDIMENT CONTROL PLAN |
| C04 | SITE REGRADING PLAN |
| C05 | TYPICAL SECTIONS & DETAILS |
| C06 | TYPICAL SECTIONS & DETAILS - PART 2 |
| C07 | ROAD CL PROFILES - ROADS 1-3 |
| C08 | ROAD CL PROFILES - ROAD 4 |
| C09 | CCHMENT PLAN |
| C10 | STORMWATER DRAINAGE PLAN |
| C11 | SEWER & WATER PLAN |



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PROJECT
SUBDIVISION & HOUSING DEVELOPMENT

ADDRESS
**LOT 1 DP 349727
27-61 NIKKO ROAD WARNERVALE**

CLIENT
KINGSTON PROPERTY FUND NO.2 PTY LTD

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| | | | |
|----------|-------|---------|--------|
| DESIGNED | DRAWN | CHECKED | ISSUED |
| JRR | SPS | JRR | SPS |

DRAWING TITLE
COVER SHEET & DRAWING SCHEDULE

| | | |
|--------------|----------------|----------|
| JOB NUMBER | DRAWING NUMBER | REVISION |
| 33334 | C01 | E |

STATUS
**CONCEPT ISSUE
FOR DEVELOPMENT APPLICATION**



LEGEND

- SEDIMENT FENCE (SD6-8)
- MESH AND GRAVEL INLET FILTER (SD6-11)
- GEOTEXTILE INLET FILTER (SD6-12)
- STABILISED SITE ACCESS (SD6-14)
- STOCKPILE (SD4-1)

GENERAL NOTES

- FINAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE DESIGNED AT CC STAGE WITH CONSIDERATION GIVEN TO FINAL DEVELOPMENT STAGING AND CONSTRUCTION SEQUENCING.



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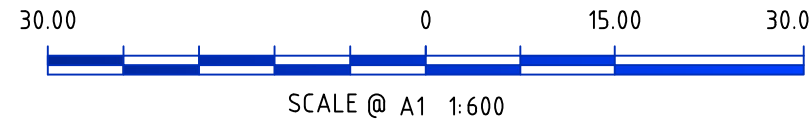
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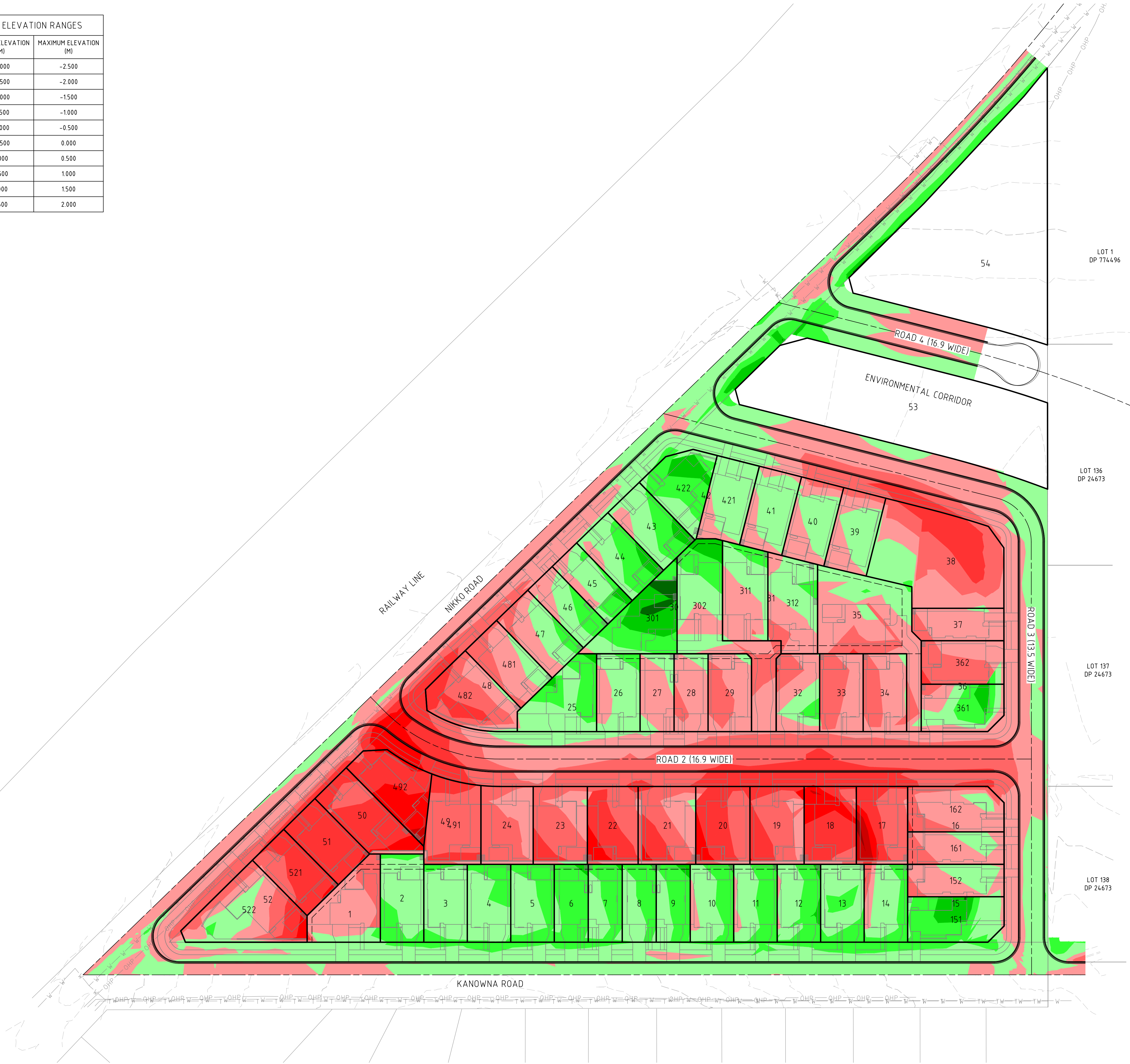
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| JRR | SPS | JRR | SPS |

DRAWING TITLE
EROSION & SEDIMENT CONTROL PLAN

| | | |
|------------|----------------|----------|
| JOB NUMBER | DRAWING NUMBER | REVISION |
| 33334 | C03 | E |

STATUS
CONCEPT ISSUE
FOR DEVELOPMENT APPLICATION

| SURFACE ANALYSIS: ELEVATION RANGES | | | |
|------------------------------------|-------|-----------------------|-----------------------|
| NUMBER | COLOR | MINIMUM ELEVATION (M) | MAXIMUM ELEVATION (M) |
| 1 | | -3.000 | -2.500 |
| 2 | | -2.500 | -2.000 |
| 3 | | -2.000 | -1.500 |
| 4 | | -1.500 | -1.000 |
| 5 | | -1.000 | -0.500 |
| 6 | | -0.500 | 0.000 |
| 7 | | 0.000 | 0.500 |
| 8 | | 0.500 | 1.000 |
| 9 | | 1.000 | 1.500 |
| 10 | | 1.500 | 2.000 |



- SITE REGRADING NOTES**
- CUT/FILL ANALYSIS COMPARES THE PROPOSED FINISHED SURFACE LEVEL TO THE EXISTING SURFACE LEVEL.
 - VOLUMES SHOULD BE ADJUSTED TO ACCOUNT FOR PAVEMENT EXCAVATION AND MATERIALS IMPORT IN ACCORDANCE WITH THE APPROVED PAVEMENT DESIGN, STORMWATER/SERVICE TRENCH EXCAVATION AND BACKFILL MATERIAL IMPORT, AND RETAINING WALL EXCAVATION AND BACKFILL MATERIAL IMPORT.



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PROJECT

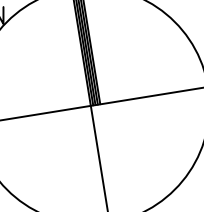
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30.00 0 15.00 30.00

SCALE @ A1 1:600

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| JRR | SPS | JRR | SPS |

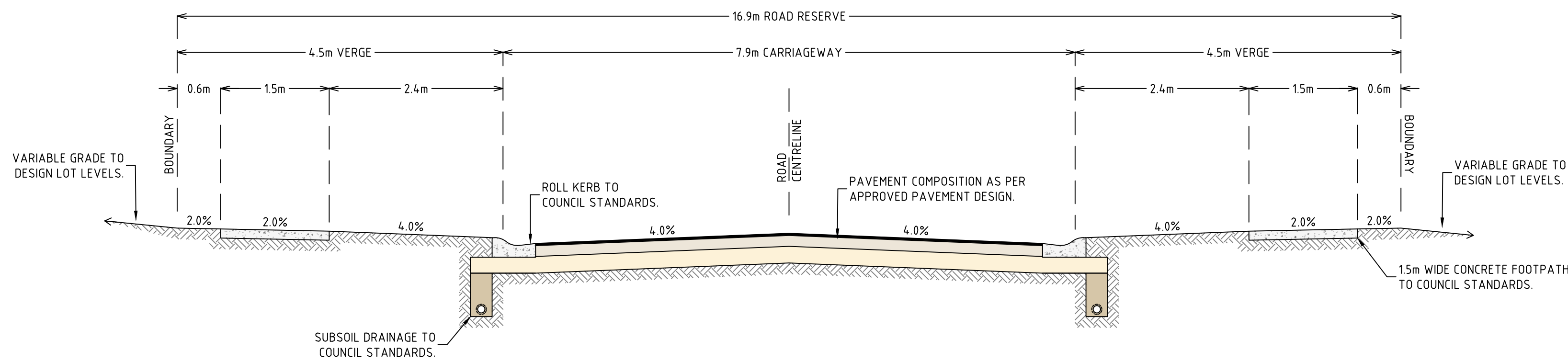
DRAWING TITLE

SITE REGRADING PLAN

| | | |
|------------|----------------|----------|
| JOB NUMBER | DRAWING NUMBER | REVISION |
| 33334 | C04 | E |

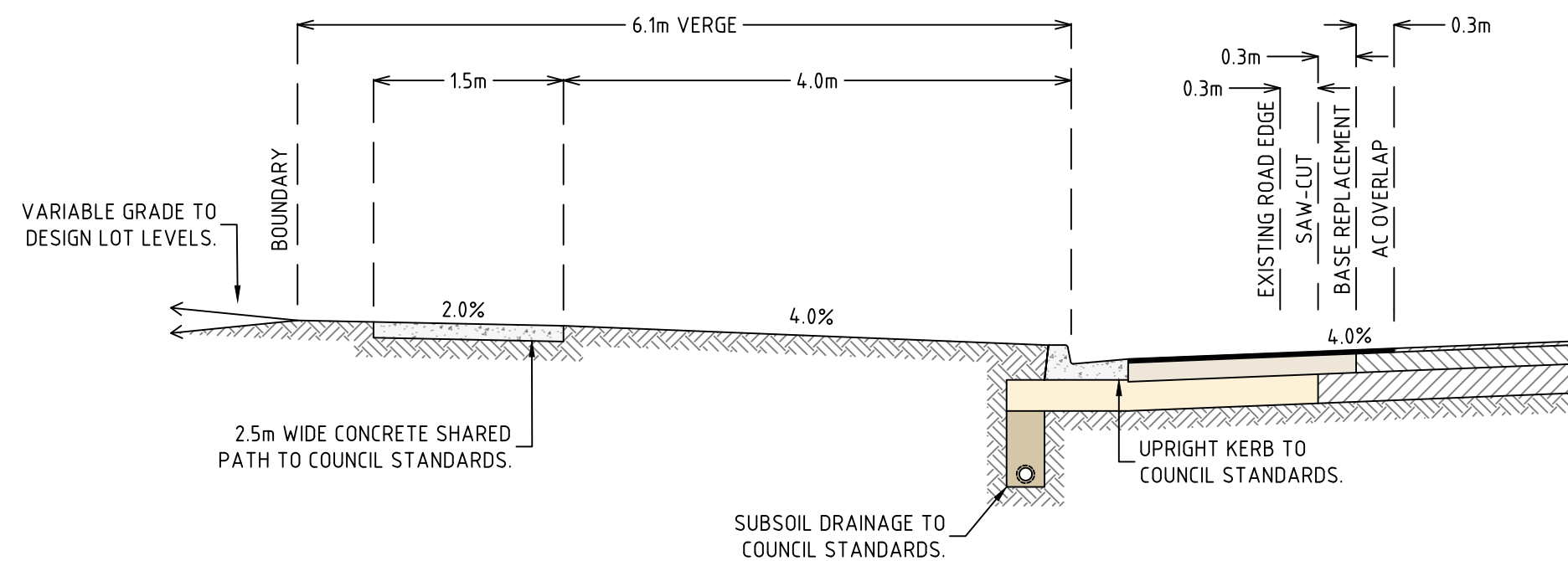
STATUS

CONCEPT ISSUE
FOR DEVELOPMENT APPLICATION

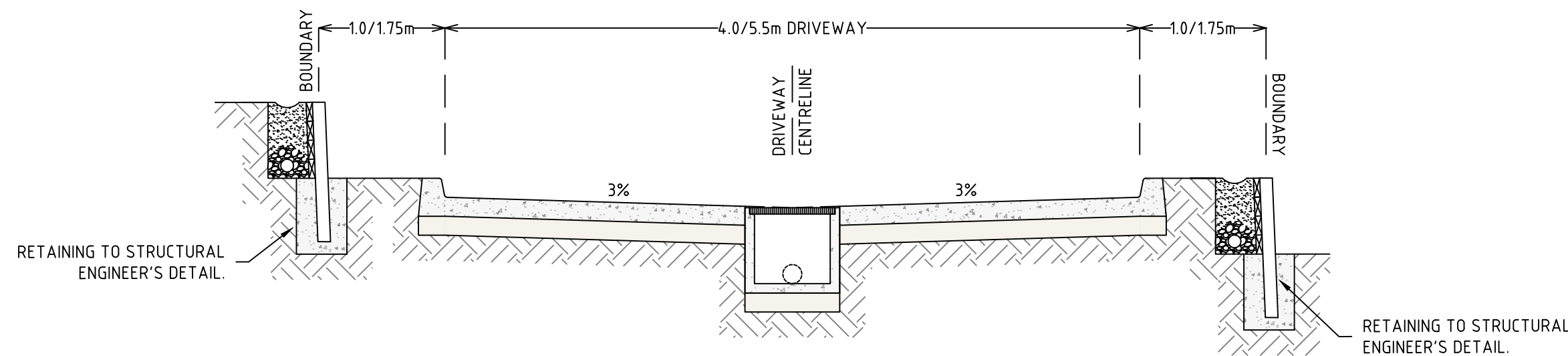


TYPICAL SECTION - ROADS 1-4
NTS

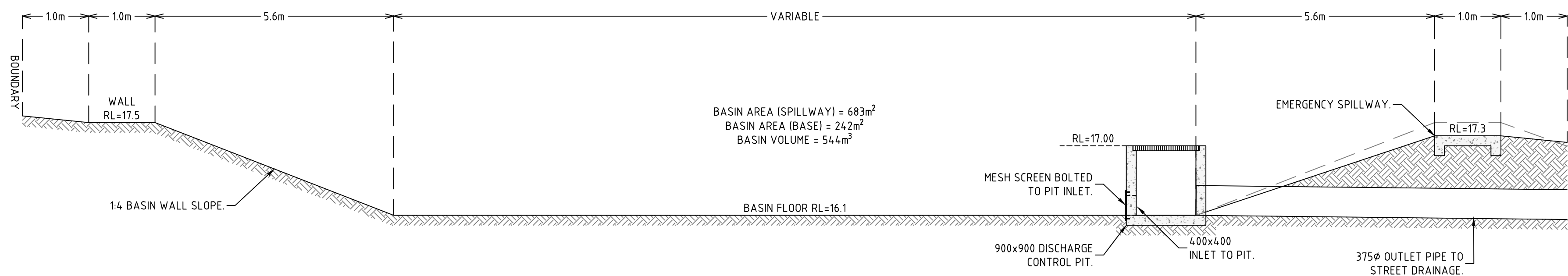
NOTE: ROAD 3 TO BATTER FROM BACK OF KERB TO EXISTING LEVELS ON EASTERN SITE BOUNDARY. VERGE TO BE FINISHED BY OTHERS AS PART OF FUTURE DEVELOPMENT TO THE EAST.



TYPICAL SECTION - NIKKO ROAD & KANOWNA ROAD
NTS



TYPICAL SECTION - SHARED DRIVEWAY
NTS



TYPICAL SECTION - TEMPORARY DETENTION BASIN
NTS



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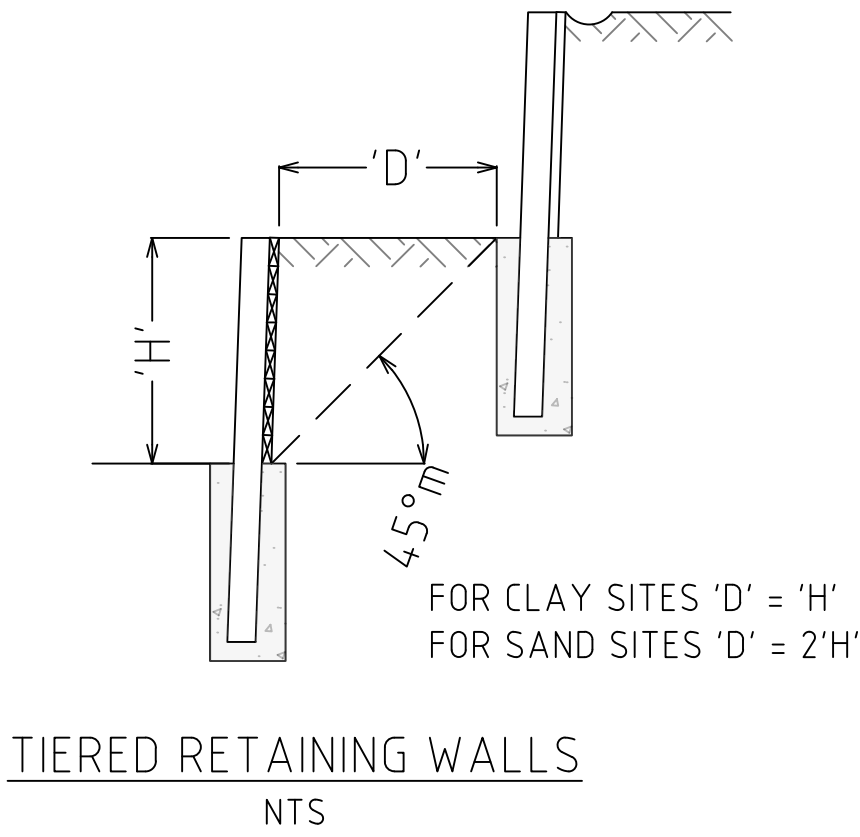
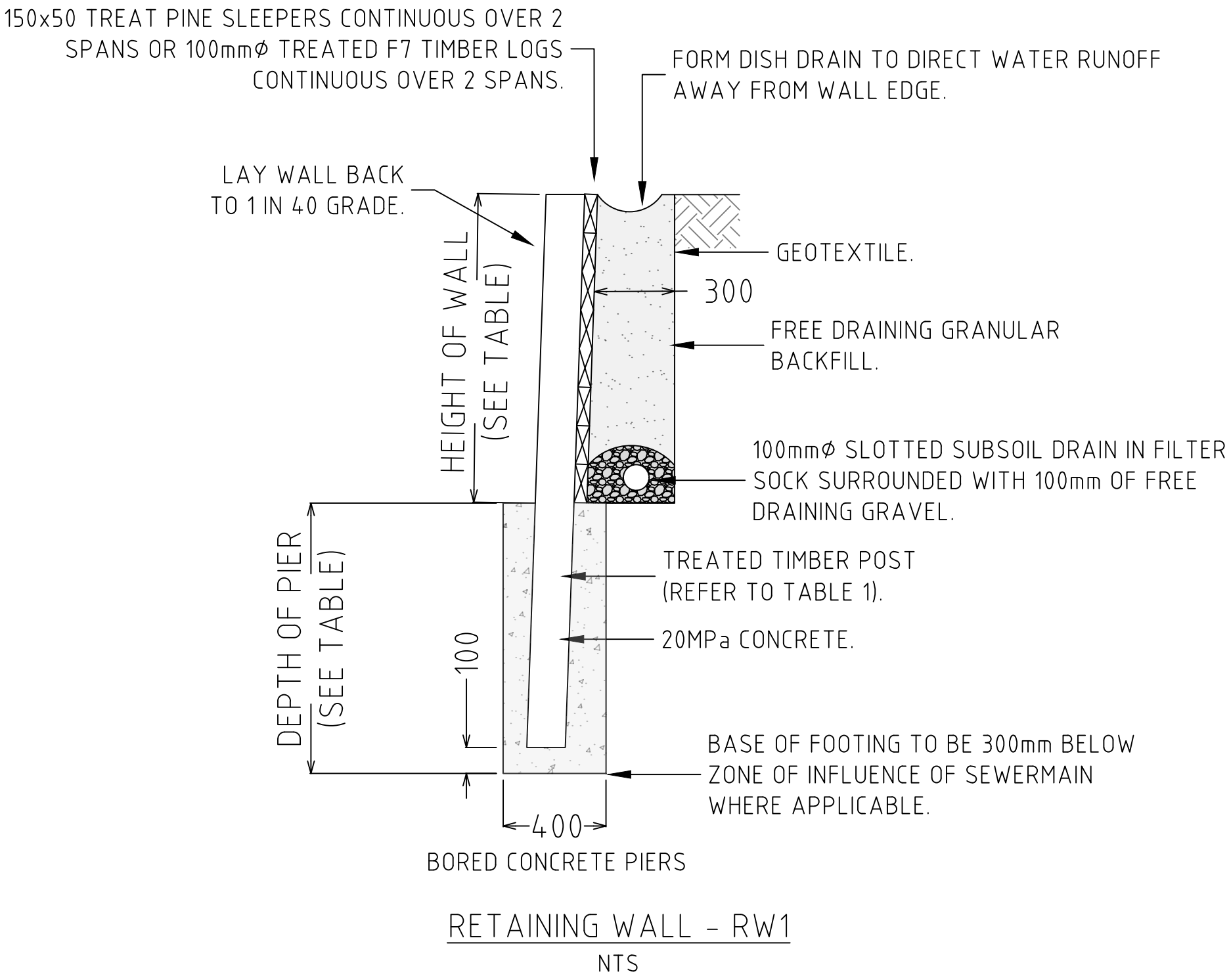
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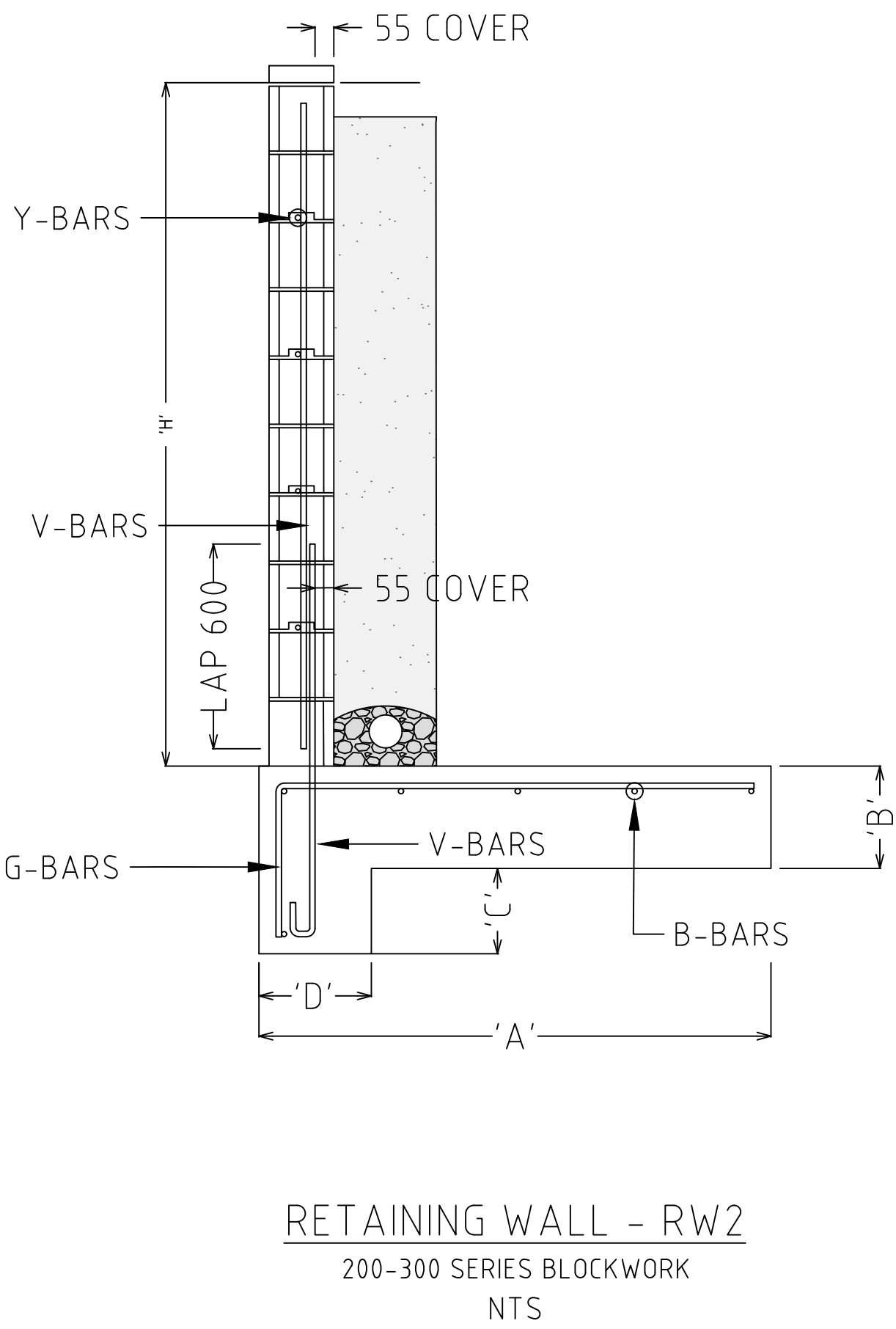
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**TYPICAL SECTIONS &
DETAILS**

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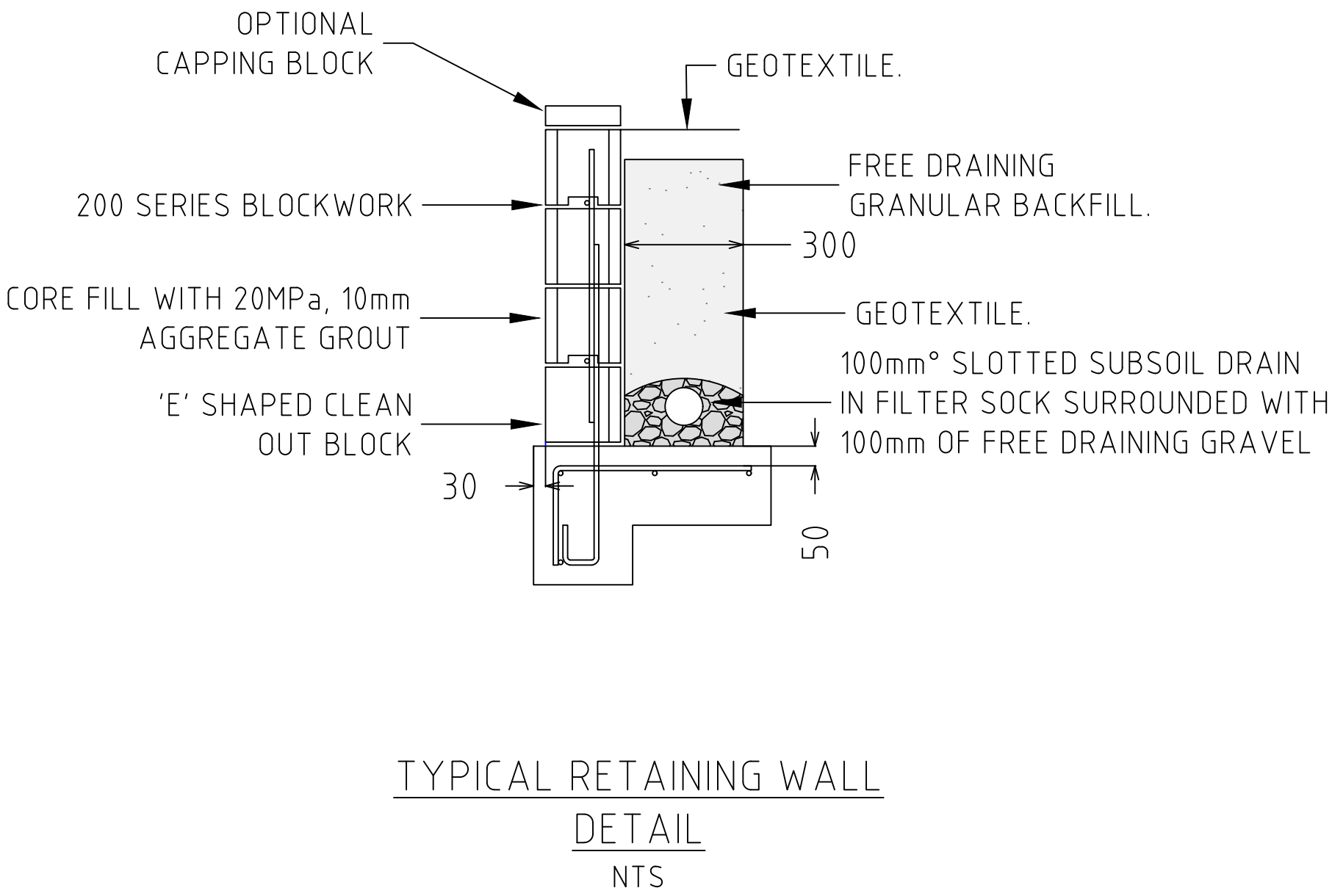
STATUS
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FOR DEVELOPMENT APPLICATION



| RETAINING WALL SPEFICATION - RW1 | | | | | |
|----------------------------------|------------------|---------------------------|-----------------------------|---------------------|--------------|
| HEIGHT OF WALL | DEPTH OF FOOTING | RECTANGULAR POST SIZE DxW | RECTANGULAR POST SIZE D1xW1 | ROUND POST SIZE (Ø) | POST SPACING |
| 0-600 | 650 | 100x75 | 75X200 | 100mmØ | 1200 MAX. |
| 601-609 | 850 | 150x75 | 100X200 | 125mmØ | 1200 MAX. |
| 901-1200 | 1050 | 150X100 | 200X100 | 150mmØ | 1200 MAX. |



| RETAINING WALL SPEFICATION - RW2 | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|------------|------------|------------|------------|
| HEIGHT (m) | A(mm) | B(mm) | C(mm) | D(mm) | V-BARS | B-BARS | Y-BARS | G-BARS |
| 600 | 500 | 250 | - | - | N12@400C/C | 2/N12 | N12@400C/C | N12@400C/C |
| 800 | 600 | 200 | 150 | 250 | N12@400C/C | 3/N12 | N12@400C/C | N12@400C/C |
| 1000 | 700 | 200 | 150 | 250 | N12@400C/C | 3/N12 | N12@400C/C | N12@400C/C |
| 1200 | 800 | 200 | 150 | 250 | N12@400C/C | 3/N12 | N12@400C/C | N12@400C/C |
| 1400 | 900 | 250 | 200 | 250 | N16@400C/C | 3/N16 | N16@400C/C | N16@400C/C |
| 1600 | 1000 | 250 | 200 | 250 | N16@400C/C | 4/N16 | N16@400C/C | N16@400C/C |
| 1800 | 1100 | 250 | 200 | 250 | N16@400C/C | N16@300C/C | N16@400C/C | N16@400C/C |
| 2000 | 1200 | 250 | 200 | 250 | N20@400C/C | N16@400C/C | N16@400C/C | N20@400C/C |



- RETAINING WALL RW1 DESIGNED FOR:
- FACTOR OF SAFETY OF 1.5
 - SOIL COHESION OF 50kPa
 - ANGLE OF SOIL BEHIND WALL = 0°
 - SOIL DRY DENSITY = 20.0kN/m³
 - SURCHARGE PRESSURE = 0kPa
 - ANGLE OF FRICTION = 30°
 - HEIGHT OF WATER TABLE IS EQUAL TO OR LOWER THAN BASE OF RETAINING WALL
 - ALL RETAINING WALL MATERIAL TO BE MINIMUM H5 TREATMENT
 - ALL TIMBER TO BE STRESS GRADE F7

- BLOCKWORK RETAINING WALLS RW2:
- RETAINING WALL FOOTINGS TO BE FOUNDED IN FIRM NATURAL CUT GROUND NOT FILL
 - HORIZONTAL REINFORCEMENT IN WALLS TO BE SPLICED AT JOINS IN WALLS AND CORNERS
 - LAP ALL BARS 600mm U.N.O
 - PROVIDE 100mmØ MINIMUM SLOTTED SUBSOIL DRAIN WITH 100mm SURROUND OF 14mm SINGLE SIZE AGGREGATE
 - SUBSOIL DRAINS TO BE CONNECTED AND DISCHARGED INTO STORMWATER PITS
 - PROVIDE 'E' SHAPED CLEAN OUT BLOCK AT BASE OF RETAINING WALL, OMIT HORIZONTAL BAR FROM TOP OF THIS BLOCK
 - PROVIDE VERTICAL CONTROL JOINTS @8M c/c MAX.
 - CORE-FILL WITH 20MPa, 10mm AGGREGATE, GROUT
 - FILL ALL REQUIRED CORES & THOROUGHLY COMPACT GROUT, ENSURING NO VOIDS ARE LEFT
 - REMOVE ALL MORTAR FINS PROTRUDING FROM ALLS
 - ALL GROUTING TO BE IN ACCORDANCE WITH AS 3700

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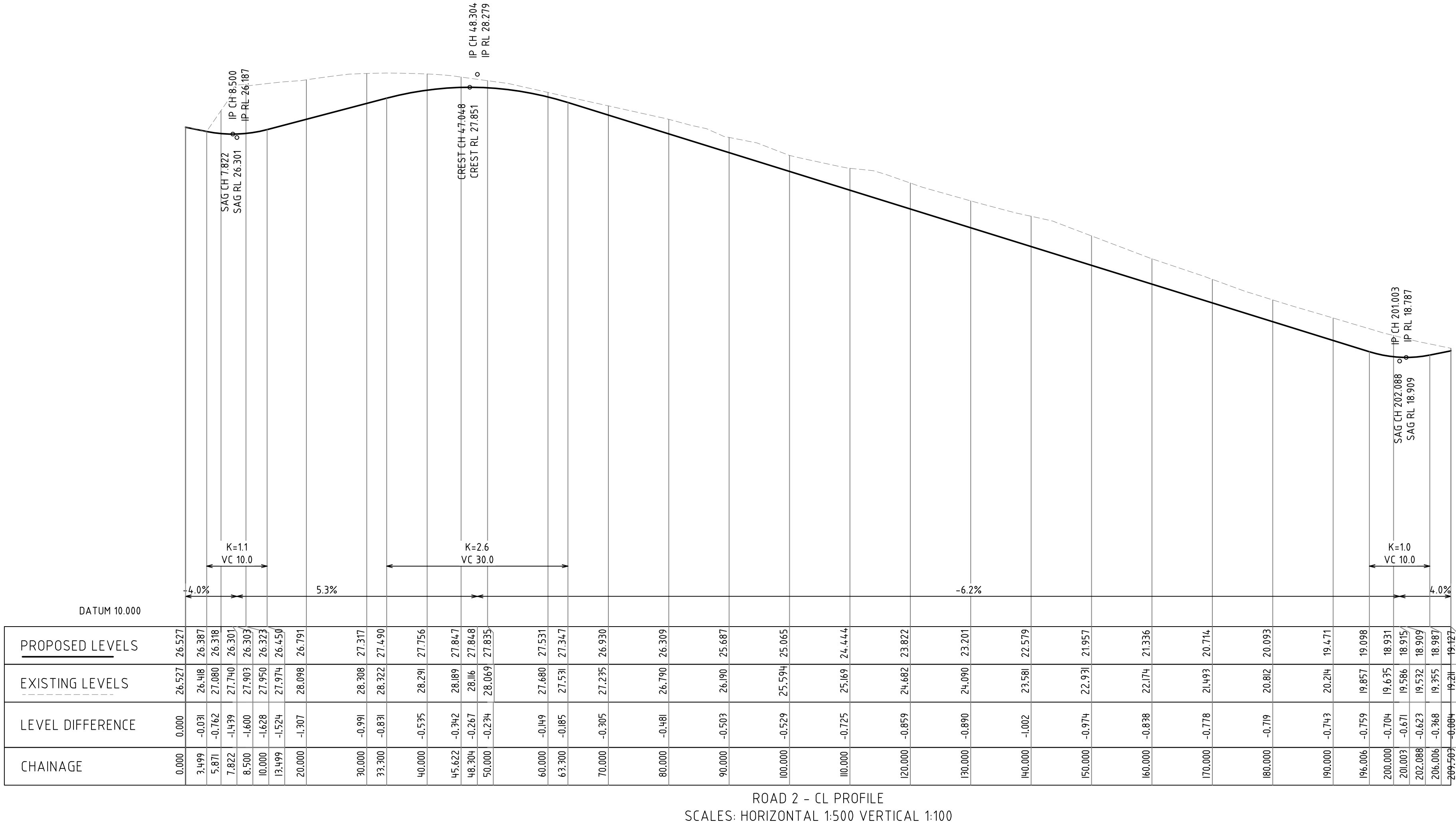
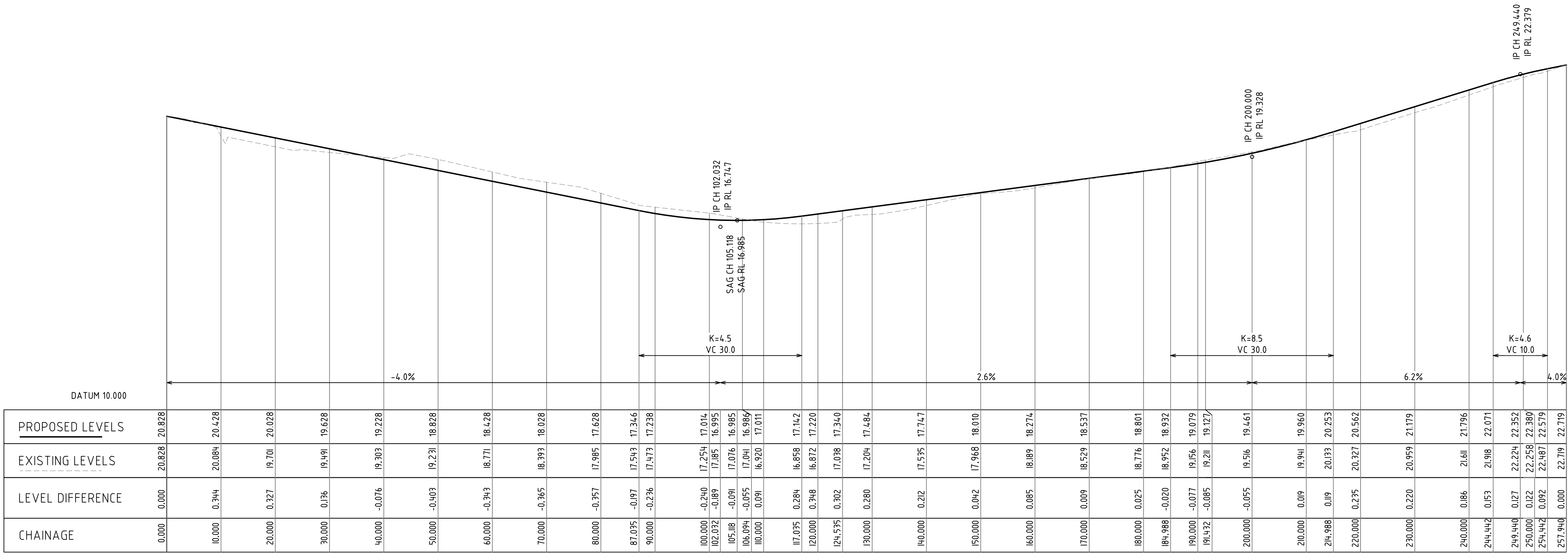
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DRAWING TITLE
TYPICAL SECTIONS & DETAILS - PART 2

| JOB NUMBER | DRAWING NUMBER | REVISION |
|--------------|----------------|----------|
| 33334 | 06 | E |

STATUS
CONCEPT ISSUE
FOR DEVELOPMENT APPLICATION



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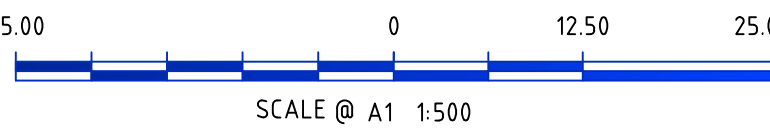
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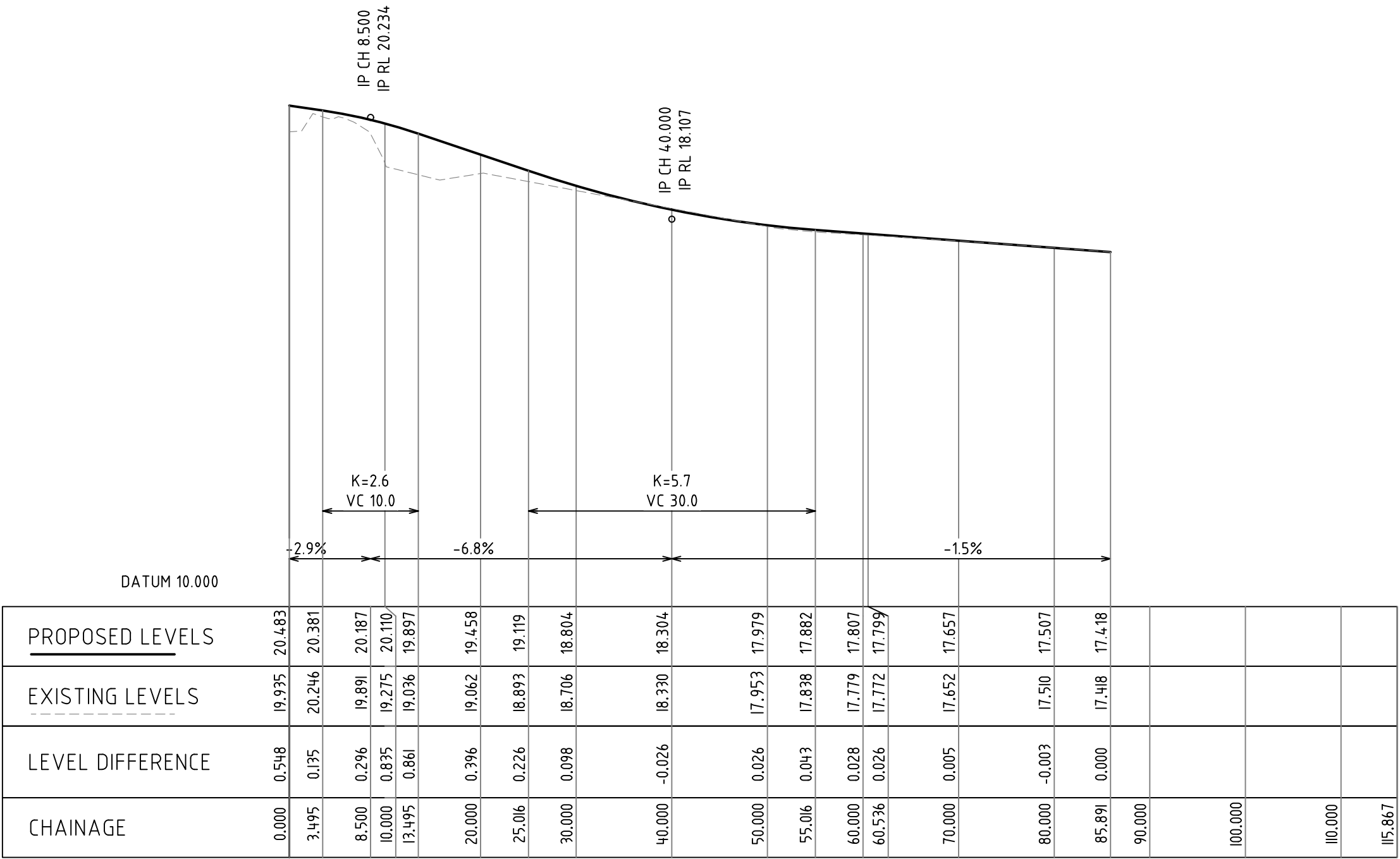
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| JRR | SPS | JRR | SPS |

DRAWING TITLE

ROAD CL PROFILES - ROAD 1-3

| | | |
|--------------|----------------|----------|
| JOB NUMBER | DRAWING NUMBER | REVISION |
| 33334 | C07 | E |

STATUS
CONCEPT ISSUE
FOR DEVELOPMENT APPLICATION



ROAD 4 - CL PROFILE
SCALES: HORIZONTAL 1:500 VERTICAL 1:100



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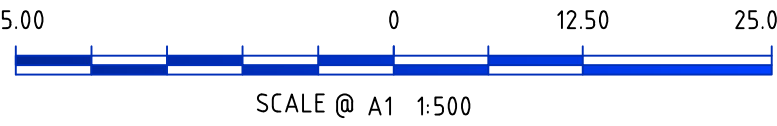
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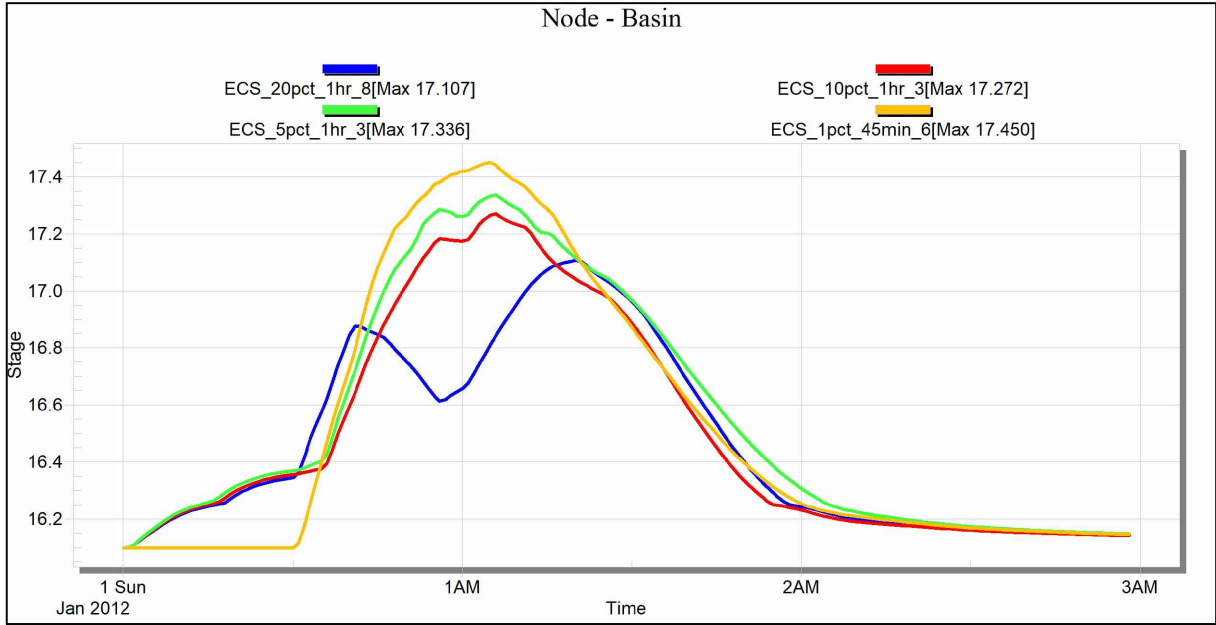
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ROAD CL PROFILES - ROAD 4

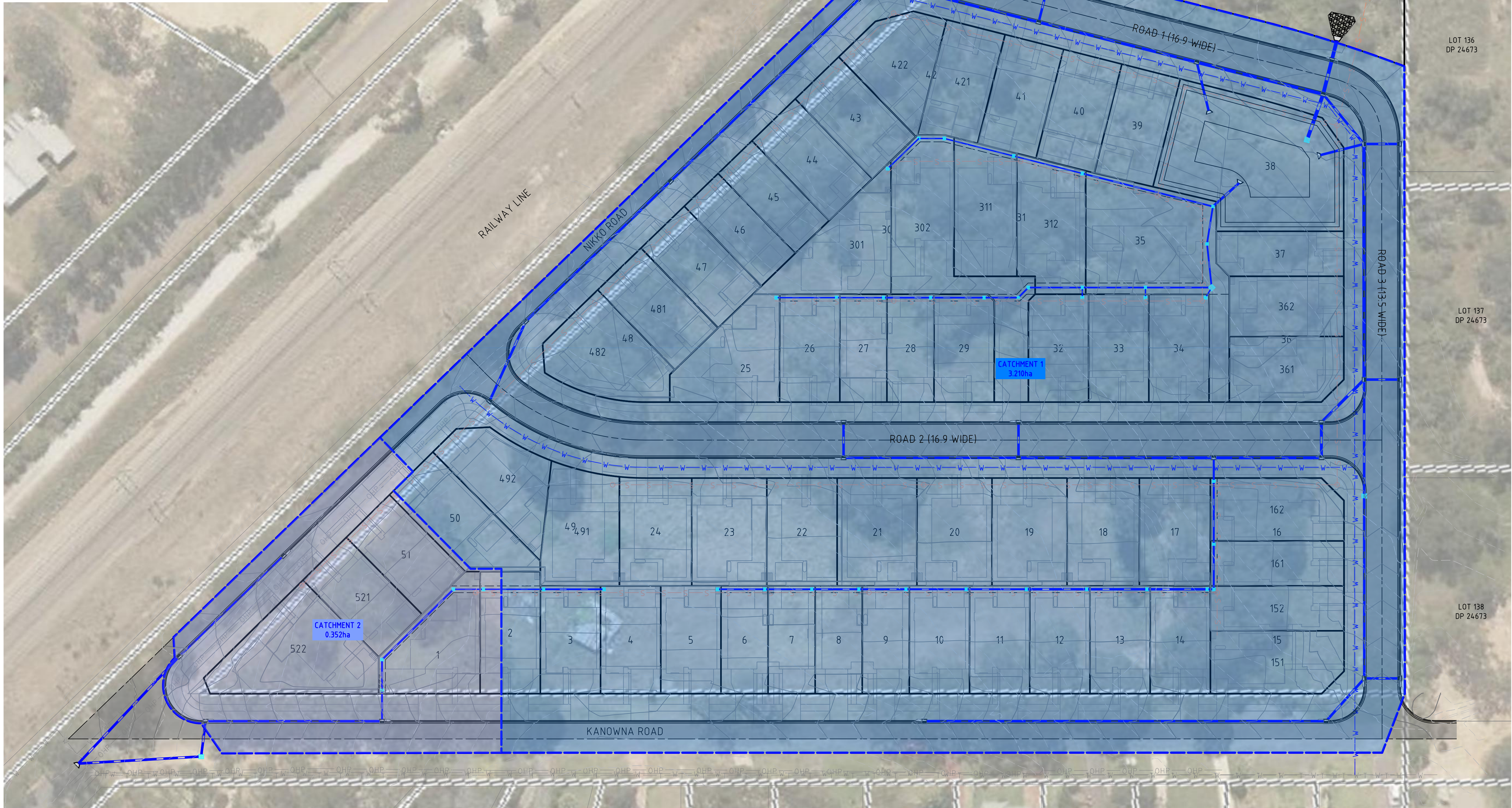
| | | |
|------------|----------------|----------|
| JOB NUMBER | DRAWING NUMBER | REVISION |
| 33334 | C08 | E |

STATUS
CONCEPT ISSUE
FOR DEVELOPMENT APPLICATION

| STORMWATER DETENTION PARAMETERS (CATCHMENT 1) | | | | |
|---|------------|------------|------------|-----------|
| CATCHMENT AREA | 3.210 Ha | | | |
| PRE-DEVELOPED IMPERMEABLE AREA | | | | |
| PRE-DEVELOPED SLOPE | 8.00% | | | |
| POST-DEVELOPED IMPERMEABLE AREA | 2.568Ha | | | |
| POST DEVELOPED SLOPE | 8.00% | | | |
| STORMWATER DETENTION RESULTS (AEP, DURATION) | | | | |
| | 20%, 60MIN | 10%, 60MIN | 5%, 60 MIN | 1%, 45MIN |
| PRE-DEVELOPED PEAK FLOW (L/S) | 458 | 639 | 839 | 1,234 |
| | 20%, 60MIN | 10%, 60MIN | 5%, 60 MIN | 1%, 45MIN |
| POST DEVELOPED PEAK FLOW (L/S) | 417 | 612 | 666 | 1,004 |

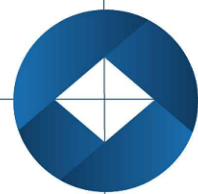


XPSWMM OUTPUT - BASIN WATER LEVELS



CATCHMENT NOTES

- CATCHMENTS WILL BE DIVIDED INTO SUB-CATCHMENTS AS PART OF THE DETAILED DESIGN PHASE OF THE PROJECT TO SIZE THE STREET AND INTERALLOTMENT DRAINAGE NETWORKS.



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PROJECT

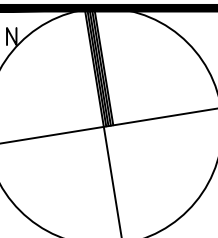
SUBDIVISION & HOUSING DEVELOPMENT

ADDRESS

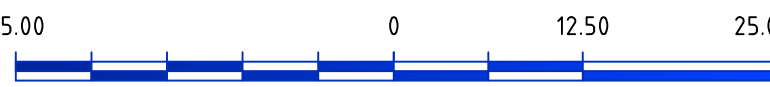
LOT 1 DP 349727
27-61 NIKKO ROAD WARNERVALE

CLIENT

KINGSTON PROPERTY FUND NO.2 PTY LTD



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| REV | DATE | REVISION DETAILS |
|-----|----------|---|
| A | 07/08/17 | PRELIMINARY ISSUE FOR REVIEW |
| B | 12/07/18 | REVISED ROAD LAYOUT |
| C | 03/05/19 | REVISED LOT LAYOUT, INCLUSION OF ROAD 4 |
| D | 17/05/19 | AMENDMENTS |
| E | 12/09/19 | AMENDMENTS AS PER COUNCIL RFI 27/08/19 |

| | | | |
|----------|-------|---------|--------|
| DESIGNED | DRAWN | CHECKED | ISSUED |
| JRR | SPS | JRR | SPS |

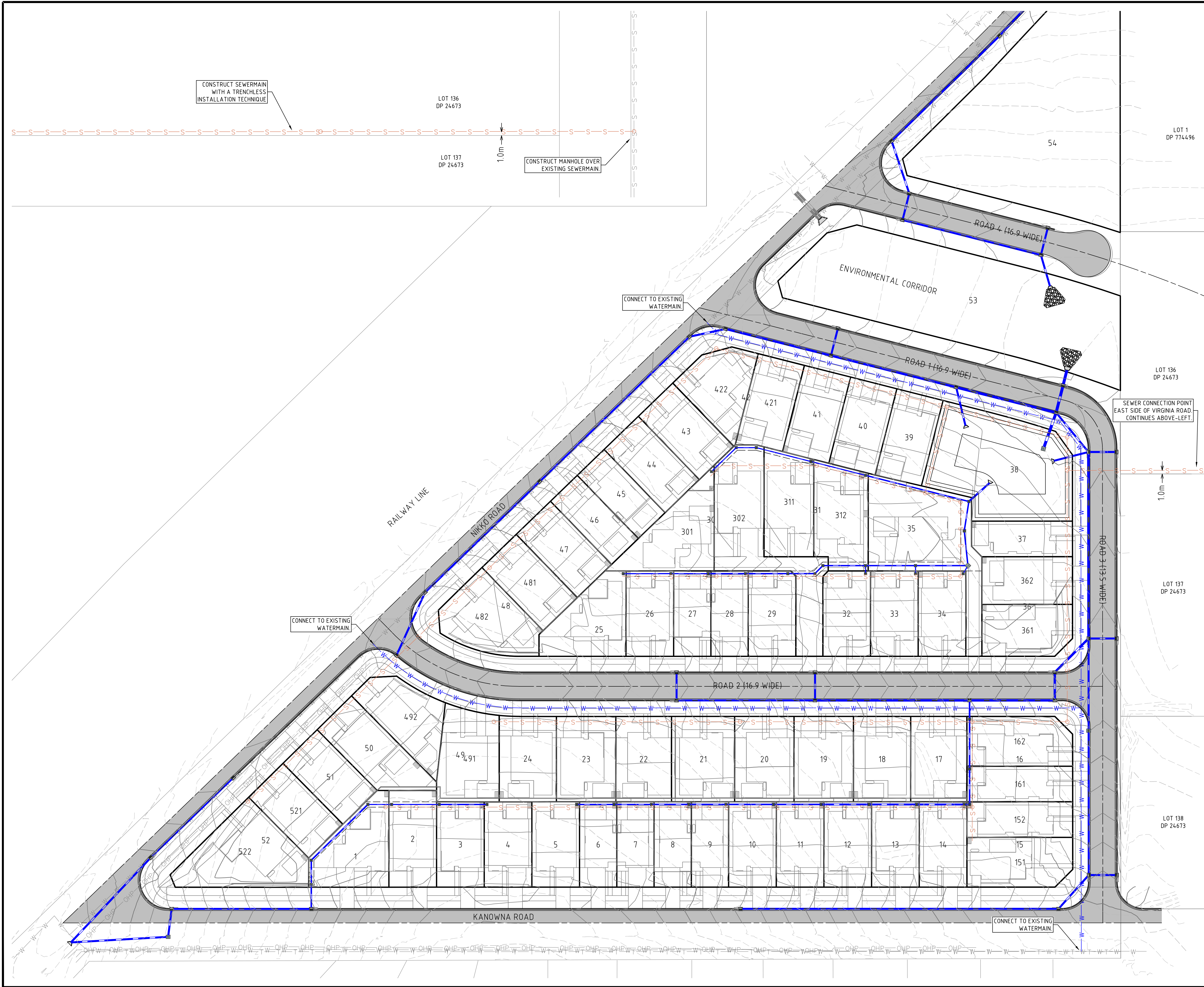
DRAWING TITLE

CATCHMENT PLAN

| | | |
|------------|----------------|----------|
| JOB NUMBER | DRAWING NUMBER | REVISION |
| 33334 | C09 | E |

STATUS

CONCEPT ISSUE
FOR DEVELOPMENT APPLICATION



| LEGEND | |
|--------|-----------------------------------|
| | EXISTING SEWER |
| | EXISTING WATER |
| | EXISTING OVER HEAD POWER |
| | EXISTING UNDER GROUND ELECTRICITY |
| | EXISTING TELECOM |
| | EXISTING GAS |
| | PROPOSED SEWER |
| | PROPOSED WATER |

- SEWER NOTES**
- SEWER DETAILED DESIGN TO BE CARRIED OUT AT CC STAGE IN ACCORDANCE WITH THE SYDNEY WATER EDITION OF THE "SEWERAGE CODE OF AUSTRALIA" WSA02-2002 WITH WYONG SHIRE COUNCIL SUPPLEMENTS.
 - SPOT LEVELS SHOWN ON PROPOSED SEWER STRUCTURES TO PROOF DRAINABILITY.
 - LONG SECTIONS AND CONSTRUCTION DETAILS TO BE PROVIDED AT CC STAGE.

- WATER NOTES**
- WATER DETAILED DESIGN TO BE CARRIED OUT AT CC STAGE IN ACCORDANCE WITH THE SYDNEY WATER EDITION OF THE "WATER SUPPLY CODE OF AUSTRALIA" WSA02-2002 WITH WYONG SHIRE COUNCIL SUPPLEMENTS.

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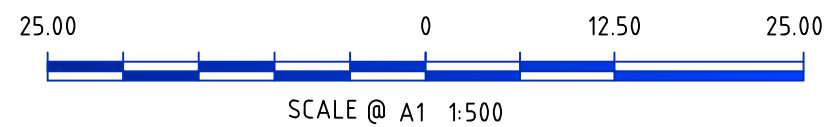
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PROJECT
SUBDIVISION & HOUSING DEVELOPMENT

ADDRESS
LOT 1 DP 349727
27-61 NIKKO ROAD WARNERVALE

CLIENT
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| F | 17/03/20 | SEWERMAIN MODIFICATION |

| | | | |
|----------|-------|---------|--------|
| DESIGNED | DRAWN | CHECKED | ISSUED |
| JRR | SPS | JRR | SPS |

DRAWING TITLE
SEWER & WATER PLAN

| | | |
|------------|----------------|----------|
| JOB NUMBER | DRAWING NUMBER | REVISION |
| 33334 | C11 | F |

STATUS
CONCEPT ISSUE
FOR DEVELOPMENT APPLICATION