

LOCATION PLAN

Scale: 1:6000@A1
1:12000@A3

SHEETS E02.0, E02.2, E04.0 & E05.0



AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	AMENDED TOPO AT WESTERN BOUNDARY AND LOT SIZES
R3	29/09/2020	AMENDED LAYOUT AND STAGE 2 ADDED

- NOTES:**
- ALL WORKS IN ACCORDANCE WITH SDC CODE OF PRACTICE PARTS 1-11. IF STANDARDS ARE UNSPECIFIED REFER TO CCC CSS PARTS 1-7 CURRENT ISSUE.
 - ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
 - ELECTRICITY & TELECOM SERVICES NOT SHOWN. REFER TO ELECTRICAL & COMMUNICATION PLANS FOR DUCT LOCATIONS.
 - TRENCHING AND INSTALLATION OF POWER AND TELECOM SERVICES TO BE PROVIDED IN ACCORDANCE WITH SERVICE PROVIDERS PLANS AND SPECIFICATIONS.
 - EXISTING SERVICES HAVE BEEN DIGITISED FROM SERVICE AUTHORITY PLANS. COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. ALL SERVICES TO BE FULLY SEARCHED AND PILOTTED PRIOR TO TRENCHING.
 - CONTOUR INTERVAL: 0.1m MINOR. 0.5m MAJOR.
 - ORIGIN OF LEVELS
BM/JMA 2 DP 526223
RL=41.558m
LOCATED AT JUNCTION OF LANNER DRIVE & THORNBOROUGH DRIVE.
DATUM IN TERMS OF MEAN SEA LEVEL (LYTELTON VERTICAL DATUM 1937) PRIOR TO CANTERBURY QUAKES OF 2010 & 2011. LEVELS BROUGHT TO SITE USING GPS.
 - CONTROL OF SW, SEDIMENT AND DUST ON SITE IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL ROW AND DRIVEWAYS ARE TO HAVE 50mm DUCTS INSTALLED FOR COMMUNICATIONS AND POWER SUPPLY.
 - ALL INTERNAL FENCES TO BE REMOVED.
 - ALL VEGETATION TO BE REMOVED.

LEGEND:

	NEW ASPHALT PAVEMENT		CHIPSEAL
	NEW FOOTPATH		PROPOSED STREET LIGHT
	EXISTING STREET LIGHT		SANITARY SEWER STD. MH
	SANITARY SEWER VENTED MH		SANITARY SEWER VENTED MH
	STORMWATER MH		STORMWATER MH
	WATER FH VALVE		WATER FH VALVE
	KERB		KERB

NAME	SIGNED	DATE
DESIGNED BY BEN FOX	BEN FOX	29.09.2020
CHECKED BY ANDY HALL	ANDY HALL	29.09.2020



116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

Job Title:
Delapre
585 & 587 & 597 Springston
Rolleston Road

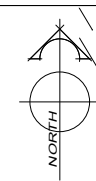
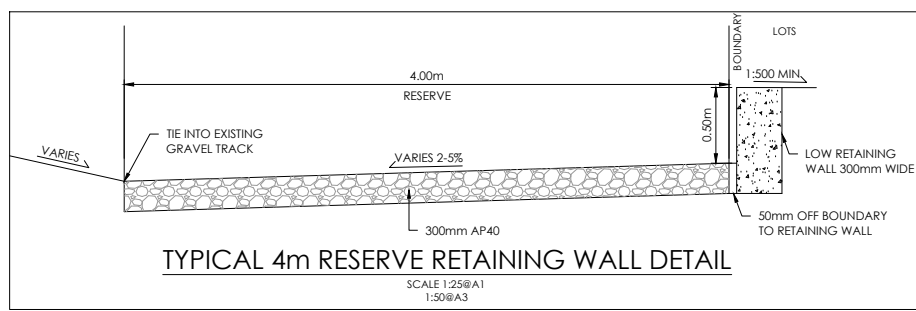
Sheet Title:
Overall Plan
RC 205336 & Lot 103

Drawing Status:
For Engineering Approval

SCALE: 1:750@A1
1:1500@A3 DATE: September 2020

CAD FILE: J:\19771\Eng\Drawings\19771_E01_R3.dwg	DRAWN: DG
DRAWING No: 19771	SHEET No: E01.0
	REVISION: R3

PLAN SCHEDULE		
SHEET	DESCRIPTION	SCALE @ A1
E01.0	Overall Plan	1:750
E02.0 - E02.1	Design Contours	1:500
E02.2 - E02.3	Cut and Fill	1:500
E03.0	Roading Layout	1:500
E03.1	Roading Layout	1:250
E03.2	Roading Layout	1:500
E03.3	Roading Details	As Shown
E04.0 - E04.1	Sewer & Stormwater Plans	1:500
E04.2	Stormwater Details	As Shown
E04.3-E04.5	Sewer & Stormwater Longsections	As Shown
E05.0 - E05.1	Water Plans	1:500



AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	NO CHANGE THIS SHEET
R3	29/09/2020	DESIGN CONTOURS, EX LOT LEVELS & PROPOSED LOT LEVELS UPDATED

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 - ALL BERMS TO BE COVER WITH A MINIMUM OF 150mm SCREENED TOPSOIL GRASSED WITH CCC BERM MIX.
 - EXISTING SERVICES HAVE BEEN DIGITISED FROM SERVICE AUTHORITY PLANS; COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. ALL SERVICES TO BE FULLY SEARCHED & PILOTTED PRIOR TO TRENCHING.
 - CLEARING TO INCLUDE REMOVAL OF ALL INTERNAL FENCING, ALL VEGETATION FROM LOTS, CLEARED AREA TO BE GRASSED AND FREE OF DEBRIS. ALL MATERIAL TO BE REMOVED FROM SITE.
 - DESIGN CONTOUR INTERVAL: MAJOR 1.0m MINOR 0.1m.
 - ALL EARTHWORKS TO COMPLY WITH NZS 4431:1989 RELEVANT CERTIFICATION REQUIRED AS PROOF.
 - IF PEAT OR OTHER UNSUITABLE MATERIAL IS LOCATED IN THE SUBGRADE THE ENGINEER IS TO BE CONTACTED FOR INSTRUCTION.
 - ESCMP TO BE IN PLACE PRIOR TO ANY EARTHWORKS.
 - CONTRACTOR MUST READ ALL DISCHARGE CONSENTS PRIOR TO ANY EARTHWORKS.
 - DRAWINGS TO BE DISTRIBUTED AND READ AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

LEGEND:

- ← SECONDARY FLOW ARROW
- LEVELS
 [20.31] PROPOSED LOT LEVELS
 [25.35] EXISTING LOT LEVELS
- EXISTING SERVICES
 [---] KERB
- PROPOSED SERVICES
 [---] KERB

DESIGNED BY	SIGNED	DATE
BEN FOX	BEN FOX	29.09.2020
CHECKED BY	ANDY HALL	29.09.2020



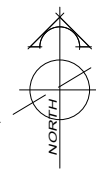
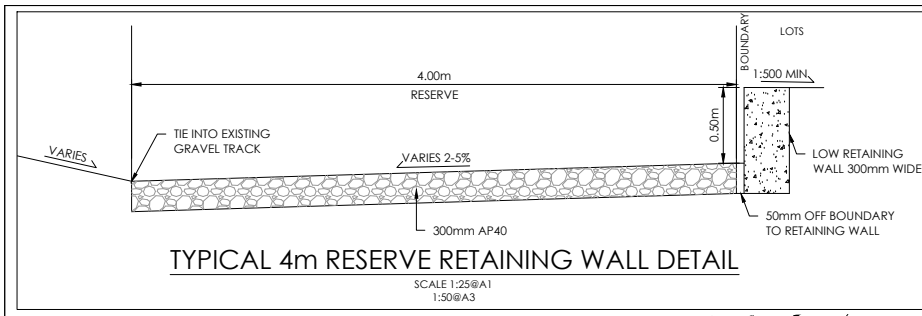
116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:
Delapre
585 & 587 & 597 Springston
Rolleston Road

SHEET TITLE:
Design Contours
RC 205336 & Lot 103

DRAWING STATUS
For Engineering Approval

SCALE: 1:500@A1 1:1000@A3	DATE: September 2020
CAD FILE: \\19771\Eng\Drawings\19771_E02_R3.dwg	DRAWN: DG
DRAWING No: 19771	SHEET No: E02.0
	REVISION: R3



AMENDMENT	DATE	DESCRIPTION
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BM.MA 2 DP 526223
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 - IF PEAT OR OTHER UNSUITABLE MATERIAL IS LOCATED IN THE SUBGRADE THE ENGINEER IS TO BE CONTACTED FOR INSTRUCTION.
 - ESCOMP TO BE IN PLACE PRIOR TO ANY EARTHWORKS.
 - CONTRACTOR MUST READ ALL DISCHARGE CONSENTS PRIOR TO ANY EARTHWORKS.
 - DRAWINGS TO BE DISTRIBUTED AND READ AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

LEGEND:

← SECONDARY FLOW ARROW

LEVELS
 [20.31] PROPOSED LOT LEVELS
 [25.35] EXISTING LOT LEVELS

EXISTING SERVICES PROPOSED SERVICES
 KERB KERB

DESIGNED BY	CHECKED BY	NAME	SIGNED	DATE
BEN FOX	ANDY HALL	BEN FOX	[Signature]	29.09.2020
		ANDY HALL	[Signature]	29.09.2020



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 Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

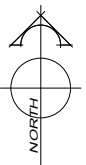
JOB TITLE:
**Delapre
 585 & 587 & 597 Springston
 Rolleston Road**

SHEET TITLE:
**Design Contours
 RC 205336 & Lot 103**

DRAWING STATUS:
For Engineering Approval

SCALE: 1:500@A1 DATE: September 2020
 1:1000@A3

CAD FILE	DRAWN	REVISION
2:\19771\Eng\Drawings\19771_E02_R3.dwg	ANDY HALL	R3
DRAWING No:	SHEET No:	
19771	E02.1	



AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	NO CHANGE THIS SHEET
R3	29/09/2020	CUT FILL CONTOURS, EX LOT LEVELS & PROPOSED LOT LEVELS UPDATED

- NOTES:
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 - CUT FILL CONTOUR INTERVAL: MAJOR 1.0m MINOR 0.1m. CONTOURS SHOWN TO ROAD SUBGRADE AND LOT FINISH LEVELS.
 - ALL EARTHWORKS TO COMPLY WITH NZS 4431:1989 RELEVANT CERTIFICATION REQUIRED AS PROOF.
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LEGEND:

← SECONDARY FLOW ARROW

LEVELS

20.31 PROPOSED LOT LEVELS

25.35 EXISTING LOT LEVELS

ENGINEERING FILL

ENGINEERING CUT

EXISTING SERVICES	PROPOSED SERVICES
KERB	KERB

DESIGNED BY	CHECKED BY	NAME	SIGNED	DATE
BEN FOX	ANDY HALL	BEN FOX	[Signature]	29.09.2020
		ANDY HALL	[Signature]	29.09.2020



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Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:
**Delapre
585 & 587 & 597 Springston
Rolleston Road**

SHEET TITLE:
**Cut Fill Plan
RC 205336 & Lot 103**

DRAWING STATUS:
For Engineering Approval

SCALE: 1:500@A1
1:1000@A3 DATE: September 2020

CAD FILE	DRAWING No	SHEET No	REVISION	DRAWN
2:\19771\Eng\Drawings\19771_E02_R3.dwg	19771	E02.2	R3	[Signature]



AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	NO CHANGE THIS SHEET
R3	29/09/2020	CUT FILL CONTOURS, EX LOT LEVELS & PROPOSED LOT LEVELS UPDATED

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RL=41.558m.
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PRIOR TO CANTERBURY QUAKES OF 2010 & 2011.
LEVELS BROUGHT TO SITE USING GPS.
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CONTOURS SHOWN TO ROAD SUBGRADE AND LOT FINISH LEVELS.
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LEGEND:

- ← SECONDARY FLOW ARROW
- LEVELS
 - 20.31 PROPOSED LOT LEVELS
 - 25.35 EXISTING LOT LEVELS
 - ENGINEERING FILL
 - ENGINEERING CUT

EXISTING SERVICES	PROPOSED SERVICES
KERB	KERB

DESIGNED BY	CHECKED BY	NAME	SIGNED	DATE
BEN FOX	ANDY HALL	BEN FOX	[Signature]	29.09.2020
		ANDY HALL	[Signature]	29.09.2020

PLANNING SURVEYING ENGINEERING

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JOB TITLE:

**Delapre
585 & 587 & 597 Springton
Rolleston Road**

SHEET TITLE:

**Cut Fill Plan
RC 205336 & Lot 103**

DRAWING STATUS

For Engineering Approval

SCALE: 1:500@A1
1:1000@A3

DATE: September 2020

CAD FILE	DRAWN
2:\19771\Eng\Drawings\19771_E02_R3.dwg	DRG

DRAWING No:	SHEET No:	REVISION:
19771	E02.3	R3



AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	ROAD 1 COBBLES REMOVED, CROSSINGS AND 2.5m SPRINGSTON ROLLESTON ROAD FOOTPATH
R3	29/09/2020	NORTH BLOCK AND ROAD LAYOUT CHANGED

NOTES:

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- CARRIAGEWAY AND FOOTPATH ACCEPTANCE TESTING IN ACCORDANCE WITH CCC CSS PART 6 AND CCC IDS.
- ORIGIN OF LEVELS
BM.MA 2 DP 526223
RL=41.58m
LOCATED AT JUNCTION OF LANNER DRIVE & THORNBOROUGH DRIVE.
DATUM IN TERMS OF MEAN SEA LEVEL (LYTELTON VERTICAL DATUM 1937) PRIOR TO CANTERBURY QUAKES OF 2010 & 2011. LEVELS BROUGHT TO SITE USING GPS.
- FOOTPATH BASECOURSE TESTING - MINIMUM CLEGG HAMMER VALUE OF 25 REQUIRED FOR FOOTPATHS & RESIDENTIAL CROSSINGS.
- MINIMUM CLEGG HAMMER VALUE OF 35 REQUIRED FOR COMMERCIAL CROSSINGS.
- KERB & CHANNEL BASECOURSE TESTING - MINIMUM DRY DENSITY OF 2100kg/m³ WITH 75% EQUAL OR EXCEEDING 2150kg/m³.
- TACTILE PAVERS ARE TO BE INSTALLED AS PER RIS14 GUIDELINES FOR FACILITIES FOR THE BLIND AND VISION-IMPAIRED PEDESTRIANS.
- ALL BERMS TO BE AND COVERED WITH A MINIMUM OF 150mm GRADE 1 TOPSOIL AND GRASSED WITH CCC BERM MIX.
- ELECTRICITY & TELECOM SERVICES NOT SHOWN. REFER TO ELECTRICAL & COMMUNICATIONS PLANS FOR DUCT LOCATIONS.
- ALL ROAD AND FOOTPATH AREAS TO BE SURFACED USING ASPHALTIC CONCRETE. FOOTPATHS TO BE CONSTRUCTED IN ACCORDANCE WITH CCC REQUIREMENTS WITH 20mm DEPTH AC, WHILE ROAD PAVEMENTS TO BE 35mm DEPTH.
- METAL DEPTHS TO BE CONFIRMED OR INCREASED PRIOR TO COMMENCEMENT OF WORK FOLLOWING THE CHECKING OF SUBGRADE CBR ON SITE.
- KERBS AT INTERSECTIONS HAVE A RADIUS OF 6.0m UNLESS SHOWN OTHERWISE.
- ALL PAVEMENT CROSSFALLS ARE TO BE CONSTRUCTED IN ACCORDANCE SD623.
- ROAD BASECOURSE TESTING - MAXIMUM BENKELMAN BEAM DEFLECTION OF 2.00mm WITH 95% BELOW 1.6mm FOR ROADS AND A MAXIMUM DEFLECTION OF 2.5mm WITH 95% BELOW 2.00mm FOR ROWS.
- ALL ROW AND DRIVEWAYS ARE TO HAVE 50mm DUCTS INSTALLED FOR COMMUNICATIONS AND POWER SUPPLY.
- COBBLES TO BE INSTALLED AS PER LANDSCAPING PLANS.

LEGEND:

- NEW ASPHALT PAVEMENT
- NEW FOOTPATH
- PROPOSED STREET LIGHT
- LEVELS
- TK20.31 PROPOSED SDC MOUNTABLE KERB LEVEL
- TKS20.31 PROPOSED SDC MOUNTABLE KERB SUMP LEVEL
- KO20.31 PROPOSED KERB ONLY LEVEL
- CHIPSEAL
- CHANGE IN GRADE
- EXISTING STREET LIGHT

EXISTING SERVICES	PROPOSED SERVICES	
KERB	KERB	
NAME	SIGNED	DATE
DESIGNED BY BEN FOX	BEN FOX	29.09.2020
CHECKED BY ANDY HALL	ANDY HALL	29.09.2020

DAVIE LOVELL-SMITH
PLANNING SURVEYING ENGINEERING

116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE: **Delapre
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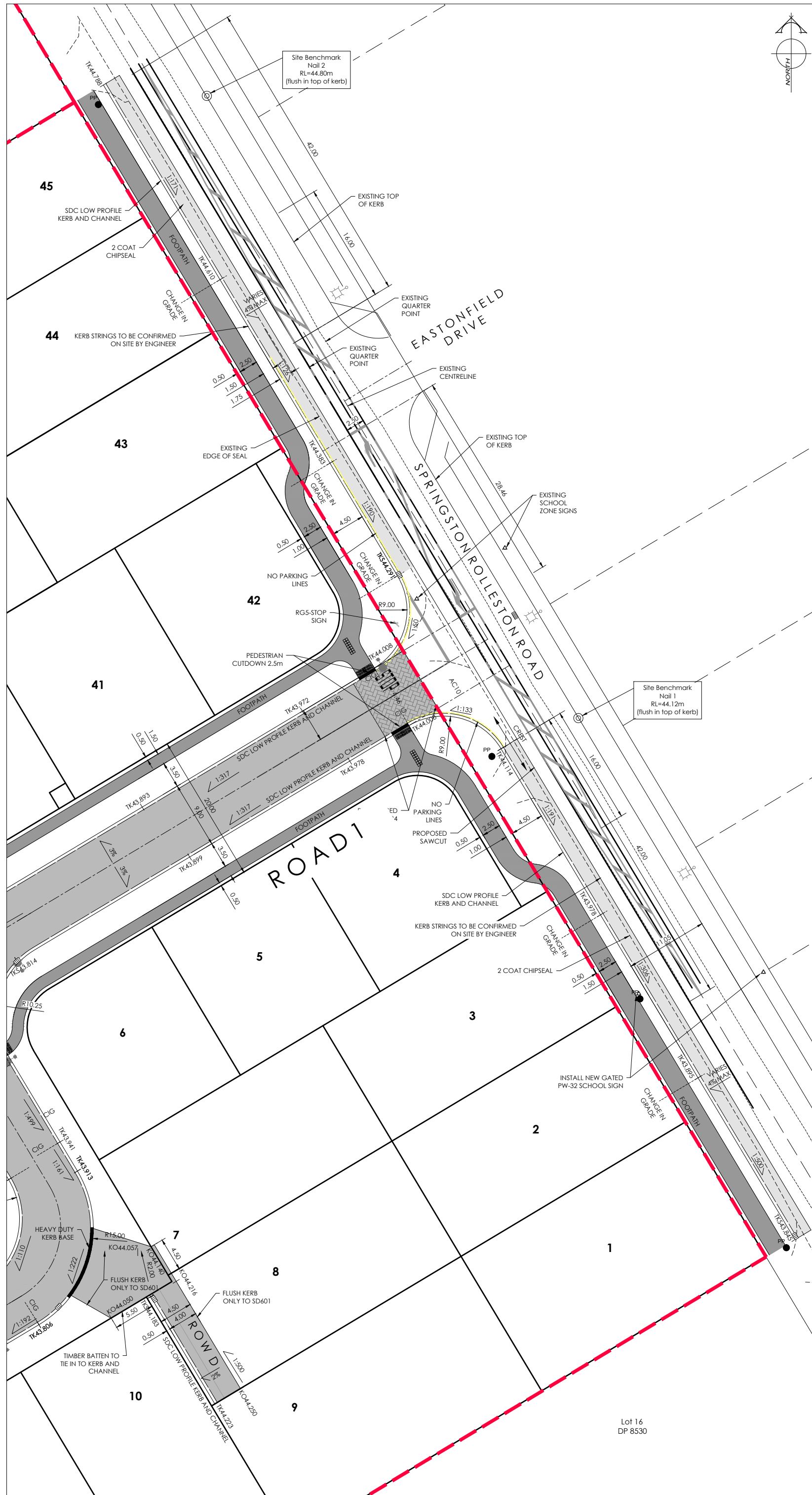
SHEET TITLE: **Roading Layout
RC 205336 & Lot 103**

DRAWING STATUS: **For Engineering Approval**

SCALE: 1:500@A1 DATE: September 2020
1:1000@A3

CAD FILE: J:\19771\Eng\Drawings\19771_E01_R3.dwg DRAWN: DG

DRAWING No: **19771** SHEET No: **E03.0** REVISION: **R3**



AMENDMENTS:		
R2	20/07/2020	ROAD 1 COBBLES REMOVED, CROSSINGS AND 2.5m SPRINGSTON ROLLESTON ROAD FOOTPATH
R3	29/09/2020	NORTH BLOCK AND ROAD LAYOUT CHANGED

- NOTES:
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 - ALL BERMS TO BE AND COVERED WITH A MINIMUM OF 150mm GRADE 1 TOPSOIL AND GRASSED WITH CCC BERM MIX.
 - ELECTRICITY & TELECOM SERVICES NOT SHOWN. REFER TO ELECTRICAL & COMMUNICATION PLANS FOR DUCT LOCATIONS.
 - ALL ROAD AND FOOTPATH AREAS TO BE SURFACED USING ASPHALTIC CONCRETE. FOOTPATHS TO BE CONSTRUCTED IN ACCORDANCE WITH CCC REQUIREMENTS WITH 20mm DEPTH AC. WHILE ROAD PAVEMENTS TO BE 35mm DEPTH.
 - METAL DEPTHS TO BE CONFIRMED OR INCREASED PRIOR TO COMMENCEMENT OF WORK FOLLOWING THE CHECKING OF SUBGRADE CBR ON SITE.
 - KERBS AT INTERSECTIONS HAVE A RADIUS OF 6.0m UNLESS SHOWN OTHERWISE.
 - ALL PAVEMENT CROSSFALLS ARE TO BE CONSTRUCTED IN ACCORDANCE SD23.
 - ROAD BASECOURSE TESTING - MAXIMUM BENKELMAN BEAM DEFLECTION OF 2.00mm WITH 95% BELOW 1.6mm FOR ROADS AND A MAXIMUM DEFLECTION OF 2.5mm WITH 95% BELOW 2.00mm FOR ROWS.
 - ALL ROW AND DRIVEWAYS ARE TO HAVE 50mm DUCTS INSTALLED FOR COMMUNICATIONS AND POWER SUPPLY.
 - COBBLES TO BE INSTALLED AS PER LANDSCAPING PLANS.

LEGEND:

	NEW ASPHALT PAVEMENT		CHIPSEAL
	NEW FOOTPATH		CHANGE IN GRADE
	PROPOSED STREET LIGHT		EXISTING STREET LIGHT

LEVELS

TK20.31	PROPOSED SDC MOUNTABLE KERB LEVEL
TKS20.31	PROPOSED SDC MOUNTABLE KERB SUMP LEVEL
KO20.31	PROPOSED KERB ONLY LEVEL

EXISTING SERVICES

KERB	PROPOSED SERVICES CUTDOWN
------	---------------------------

DESIGNED BY	SIGNED	DATE
BEN FOX	BEN FOX	29.09.2020
CHECKED BY	ANDY HALL	29.09.2020

DAVIE LOVELL-SMITH
PLANNING SURVEYING ENGINEERING

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585 & 587 & 597 Springston
Rolleston Road**

SHEET TITLE:

**Roading Layout
RC 205336 & Lot 103**

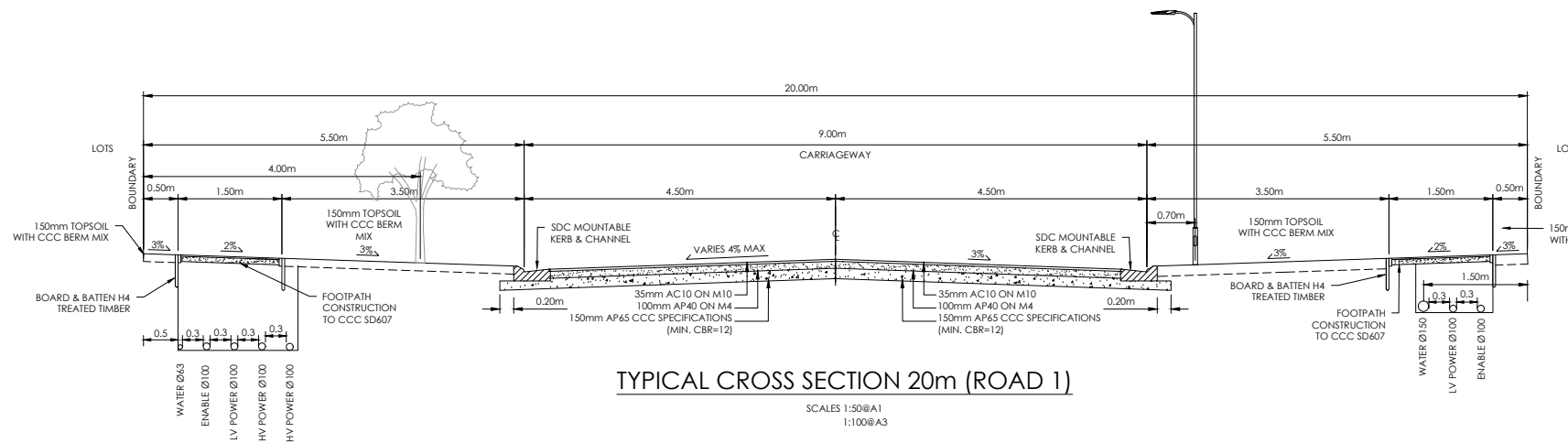
DRAWING STATUS:

For Engineering Approval

SCALE: 1:250@A1 DATE: September 2020
1:500@A3

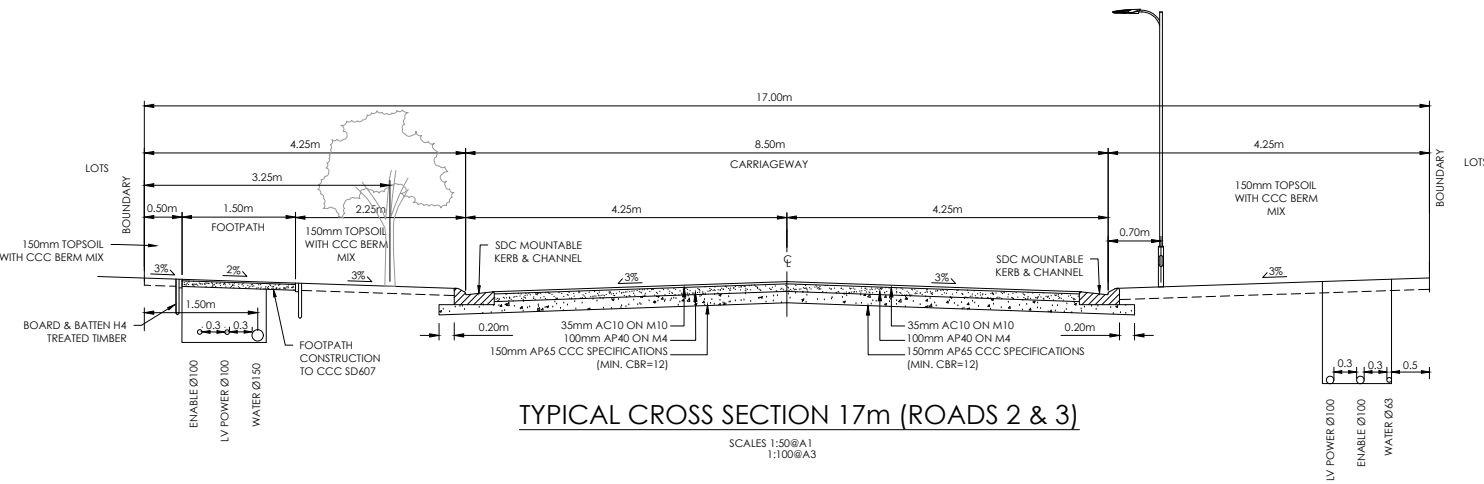
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DRAWING No: 19771 SHEET No: E03.1 REVISION: R2



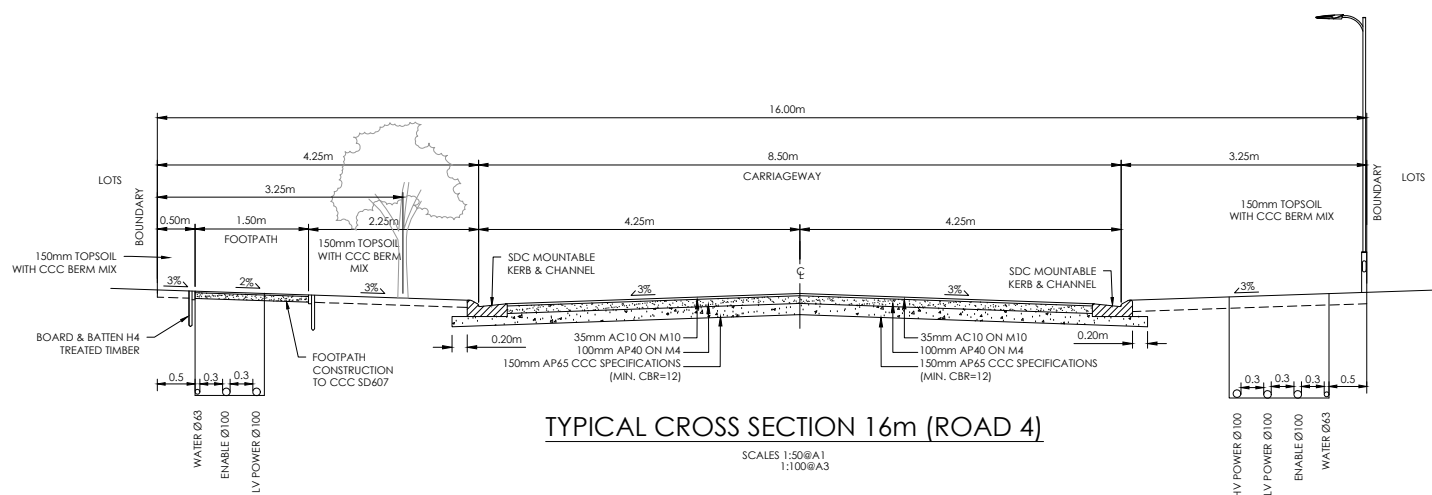
TYPICAL CROSS SECTION 20m (ROAD 1)

SCALES 1:50@A1
1:100@A3



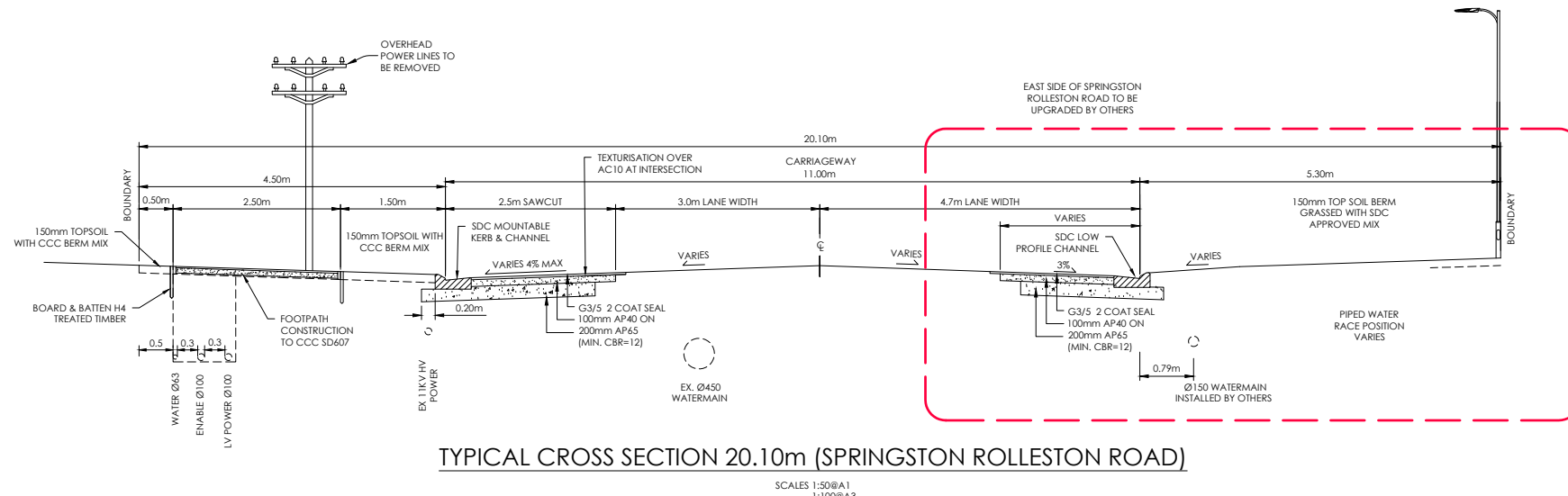
TYPICAL CROSS SECTION 17m (ROADS 2 & 3)

SCALES 1:50@A1
1:100@A3



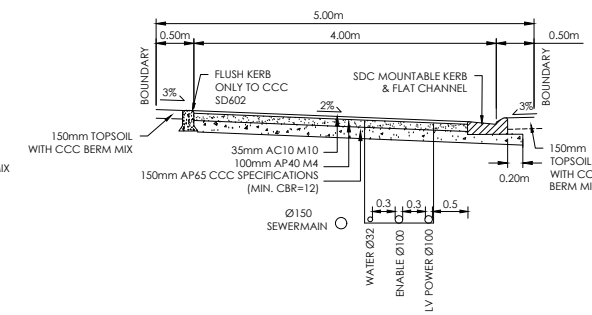
TYPICAL CROSS SECTION 16m (ROAD 4)

SCALES 1:50@A1
1:100@A3



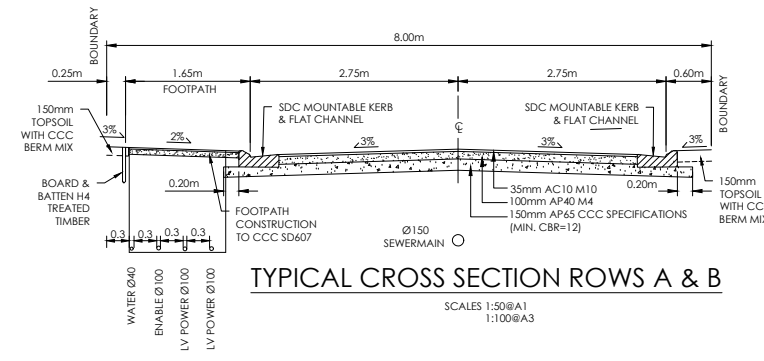
TYPICAL CROSS SECTION 20.10m (SPRINGSTON ROLLESTON ROAD)

SCALES 1:50@A1
1:100@A3



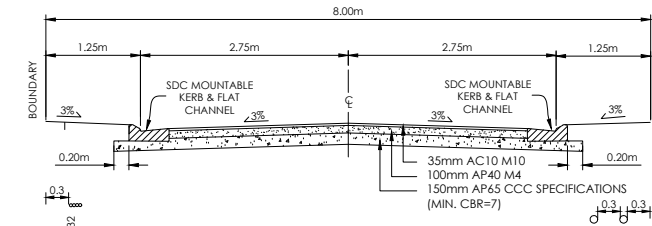
TYPICAL CROSS SECTION ROW D

SCALES 1:50@A1
1:100@A3



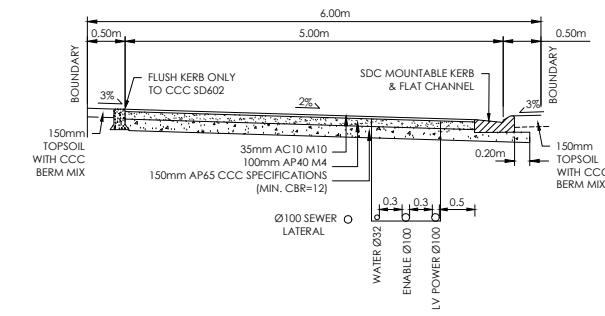
TYPICAL CROSS SECTION ROWS A & B

SCALES 1:50@A1
1:100@A3



TYPICAL CROSS SECTION ROW C

SCALES 1:50@A1
1:100@A3



TYPICAL CROSS SECTION ROWS E, F, G & H

SCALES 1:50@A1
1:100@A3

AMENDMENTS		
AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	2.5m SPRINGSTON ROLLESTON ROAD FOOTPATH
R3	29/09/2020	ROW C & ROAD 4 CROSS SECTIONS ADDED

- NOTES:
- ALL WORKS IN ACCORDANCE WITH SDC CODE OF PRACTICE PARTS 1-11, IF STANDARDS ARE UNSPECIFIED REFER TO CCC CSS PARTS 1-7 CURRENT ISSUE.
 - ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
 - CARRIAGEWAY AND FOOTPATH ACCEPTANCE TESTING IN ACCORDANCE WITH CCC CSS PART 6 AND CCC IDS.
 - ORIGIN OF LEVELS
BM.MA 2 DP 526223
RL=41.558m
LOCATED AT JUNCTION OF LANNER DRIVE & THORNBOROUGH DRIVE.
 - DATUM IN TERMS OF MEAN SEA LEVEL (LYTELTON VERTICAL DATUM 1937) PRIOR TO CANTERBURY QUAKES OF 2010 & 2011.
LEVELS BROUGHT TO SITE USING GPS.
 - FOOTPATH BASECOURSE TESTING - MINIMUM CLEGG HAMMER VALUE OF 25 REQUIRED FOR FOOTPATHS & RESIDENTIAL CROSSINGS.
 - MINIMUM CLEGG HAMMER VALUE OF 35 REQUIRED FOR COMMERCIAL CROSSINGS.
 - KERB & CHANNEL BASECOURSE TESTING - MINIMUM DRY DENSITY OF 2100kg/m³ WITH 75% EQUAL OR EXCEEDING 2150kg/m³.
 - TACTILE PAVERS ARE TO BE INSTALLED AS PER RTS14 GUIDELINES FOR FACILITIES FOR THE BLIND AND VISION-IMPAIRED PEDESTRIANS.
 - ALL BERMS TO BE AND COVERED WITH A MINIMUM OF 150mm GRADE 1 TOPSOIL AND GRASSED WITH CCC BERM MIX.
 - ELECTRICITY & TELECOM SERVICES NOT SHOWN. REFER TO ELECTRICAL & COMMUNICATION PLANS FOR DUCT LOCATIONS.
 - ALL ROAD AND FOOTPATH AREAS TO BE SURFACED USING ASPHALTIC CONCRETE. FOOTPATHS TO BE CONSTRUCTED IN ACCORDANCE WITH CCC REQUIREMENTS WITH 20mm DEPTH AC, WHILE ROAD PAVEMENTS TO BE 35mm DEPTH.
 - METAL DEPTHS TO BE CONFIRMED OR INCREASED PRIOR TO COMMENCEMENT OF WORK FOLLOWING THE CHECKING OF SUBGRADE CBR ON SITE.
 - KERBS AT INTERSECTIONS HAVE A RADIUS OF 6.0m UNLESS SHOWN OTHERWISE.
 - ALL PAVEMENT CROSSFALLS ARE TO BE CONSTRUCTED IN ACCORDANCE SD623.
 - ROAD BASECOURSE TESTING - MAXIMUM BENKELMAN BEAM DEFLECTION OF 2.00mm WITH 95% BELOW 1.6mm FOR ROADS AND A MAXIMUM DEFLECTION OF 2.5mm WITH 95% BELOW 2.00mm FOR ROWS.
 - ALL ROW AND DRIVEWAYS ARE TO HAVE 50mm DUCTS INSTALLED FOR COMMUNICATIONS AND POWER SUPPLY.
 - COBBLES TO BE INSTALLED AS PER LANDSCAPING PLANS.

	NAME	SIGNED	DATE
DESIGNED BY	BEN FOX	BEN FOX	29.09.2020
CHECKED BY	ANDY HALL	ANDY HALL	29.09.2020



116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:
**Delapre
585 & 587 & 597 Springston
Rolleston Road**

SHEET TITLE:
**Roding Sections
RC 205336 & Lot 103**

DRAWING STATUS:
For Engineering Approval

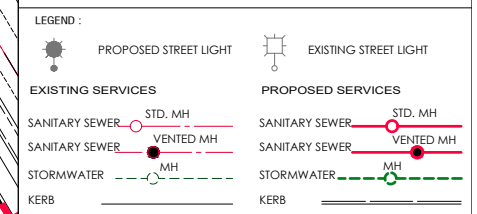
SCALE: As Shown DATE: September 2020

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19771	E03.3	R3



AMENDMENT	DATE	DESCRIPTION
R2	20/07/20	NO CHANGE THIS SHEET
R3	29/09/20	SEWER & SW LAYOUT UPDATED

- NOTES:
- ALL WORKS IN ACCORDANCE WITH SDC CODE OF PRACTICE PARTS 1-11. IF STANDARDS ARE UNSPECIFIED REFER TO CCC CSS PARTS 1-7 CURRENT ISSUE.
 - ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
 - ALL SERVICES TO BE FULLY SEARCHED AND PILOTTED PRIOR TO TRENCHING.
 - ALL UPVC PIPES (WHETHER SEWER OR STORMWATER) SHALL CONFORM TO AS NZS 1240:1999 AND SHALL HAVE THE FOLLOWING STIFFNESS NUMBERS AS SET OUT IN THE STANDARD: DN 100 AND 150...SN16; DN225 AND LARGER...SN8.
 - ALL SERVICES UP DRIVEWAYS & ROWs TO BE INSTALLED BY A REGISTERED DRAIN LAYER AND IN TERMS OF THE BUILDING CONSENT.
 - REFER TO LONGSECTIONS FOR ALL SEWER & STORMWATER LEVELS.
 - ORIGIN OF LEVELS
BIM/JA 2 DP 526223
RL=41.558m
LOCATED AT JUNCTION OF LANNER DRIVE & THORNBOROUGH DRIVE.
DATUM IN TERMS OF MEAN SEA LEVEL (LYTELTON VERTICAL DATUM 1937) PRIOR TO CANTERBURY QUAKES OF 2010 & 2011. LEVELS BROUGHT TO SITE USING GPS.
 - ALL SEWER AND STORMWATER LATERALS TO BE LAID AT 1:60. MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.
 - NOMINATED PIPE SIZES ARE INTERNAL DIAMETER UNLESS NOTED OTHERWISE.
 - ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.
 - RAMPED RISERS ARE TO BE USED FOR LATERALS TO ENSURE A MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.
 - BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.
 - SOAKPIT SIZES TO BE CONFIRMED WITH ENGINEER AFTER ON SITE SOAKAGE TESTING.



DESIGNED BY	NAME	SIGNED	DATE
DESIGNED BY	BEN FOX	BEN FOX	29.09.2020
CHECKED BY	ANDY HALL	ANDY HALL	29.09.2020

DAVE LOVELL-SMITH
PLANNING SURVEYING ENGINEERING

116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:
**Delapre
585 & 587 & 597 Springston
Rolleston Road**

SHEET TITLE:
**Sewer & Stormwater Plan
RC 205336 & Lot 103**

DRAWING STATUS:
For Engineering Approval

SCALE: 1:500@A1 DATE: September 2020
1:1000@A3

CAD FILE	DRAWING No.	SHEET No.	REVISION
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Section 2
SO 499096



AMENDMENT	DATE	DESCRIPTION
R2	20/07/20	NO CHANGE THIS SHEET
R3	29/09/20	SEWER & SW LAYOUT UPDATED

- NOTES:
- ALL WORKS IN ACCORDANCE WITH SDC CODE OF PRACTICE PARTS 1-11. IF STANDARDS ARE UNSPECIFIED REFER TO CCC CSS PARTS 1-7 CURRENT ISSUE.
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 - ALL SERVICES UP DRIVEWAYS & ROWs TO BE INSTALLED BY A REGISTERED DRAIN LAYER AND IN TERMS OF THE BUILDING CONSENT.
 - REFER TO LONGSECTIONS FOR ALL SEWER & STORMWATER LEVELS.
 - ORIGIN OF LEVELS
BIMBA 2 DP 526223
RL=41.558m
LOCATED AT JUNCTION OF LANNER DRIVE & THORNBOROUGH DRIVE.
DATUM IN TERMS OF MEAN SEA LEVEL (LYTELTON VERTICAL DATUM 1937) PRIOR TO CANTERBURY QUAKES OF 2010 & 2011.
LEVELS BROUGHT TO SITE USING GPS.
 - ALL SEWER AND STORMWATER LATERALS TO BE LAID AT 1:60. MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.
 - NOMINATED PIPE SIZES ARE INTERNAL DIAMETER UNLESS NOTED OTHERWISE.
 - ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.
 - RAMPED RISERS ARE TO BE USED FOR LATERALS TO ENSURE A MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.
 - BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.
 - SOAKPIT SIZES TO BE CONFIRMED WITH ENGINEER AFTER ON SITE SOAKAGE TESTING.

LEGEND:

	PROPOSED STREET LIGHT		EXISTING STREET LIGHT
EXISTING SERVICES		PROPOSED SERVICES	
	SANITARY SEWER STD. MH		SANITARY SEWER STD. MH
	SANITARY SEWER VENTED MH		SANITARY SEWER VENTED MH
	STORMWATER MH		STORMWATER MH
	KERB		KERB

DESIGNED BY	SIGNED	DATE
BEN FOX	BEN FOX	29.09.2020
CHECKED BY		
ANDY HALL	ANDY HALL	29.09.2020



116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:
**Delapre
585 & 587 & 597 Springston
Rolleston Road**

SHEET TITLE:
**Sewer & Stormwater Plan
RC 205336 & Lot 103**

DRAWING STATUS:
For Engineering Approval

SCALE: 1:500@A1 DATE: September 2020
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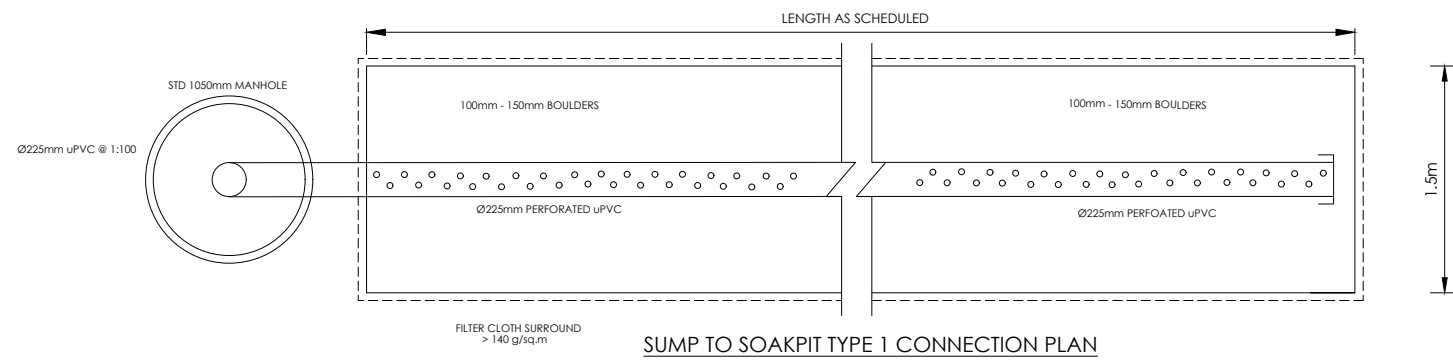
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19771	E04.1	R3

Section 2
SO 499096

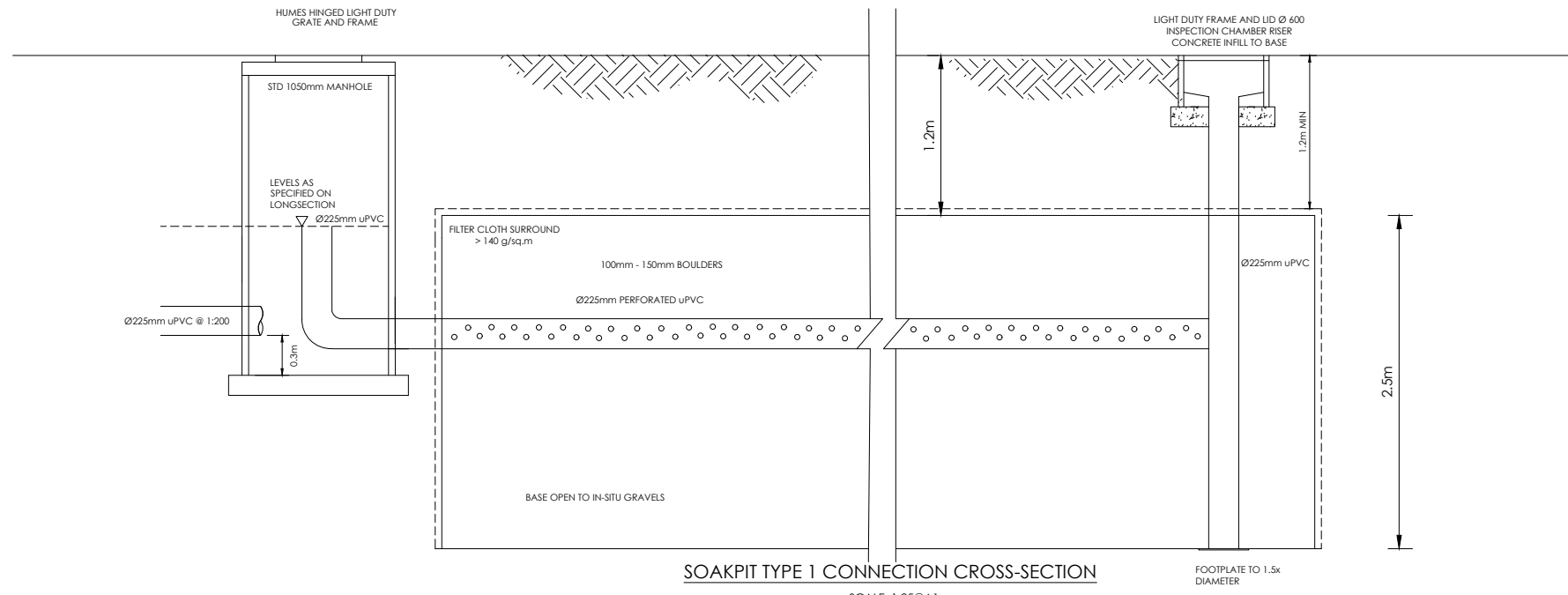
Lot 16
DP 8530

EXISTING HOUSE NEW SOAKPIT TO BE CLEAR OF VEGETATION, AS PER BUILDING CODE UNDER BUILDING CONSENT

CONNECT TO EXISTING HOUSE SEWER SYSTEM AS PER BUILDING CODE AND REMOVE SEPTIC TANK UNDER BUILDING CONSENT



SUMP TO SOAKPIT TYPE 1 CONNECTION PLAN
SCALE: 1:25@A1
1:50@A3



SOAKPIT TYPE 1 CONNECTION CROSS-SECTION
SCALE: 1:25@A1
1:50@A3

SOAKAGE TO BE CONFIRMED ONSITE. REFER TO ENGINEER FOR SOAKPIT SIZING.

AMENDMENTS:		
AMENDMENT	DATE	DESCRIPTION
R2	20/07/20	SOAKPIT DETAIL AMENDED VERTICAL END PIPE
R3	29/09/20	NO CHANGE THIS SHEET

- NOTES:
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 - ALL SERVICES UP DRIVEWAYS & ROOMS TO BE INSTALLED BY A REGISTERED DRAIN LAYER AND IN TERMS OF THE BUILDING CONSENT.
 - REFER TO LONGSECTIONS FOR ALL SEWER & STORMWATER LEVELS.
 - ORIGIN OF LEVELS
BIM.MA 2 DP 526223
RL=+1.558m
LOCATED AT JUNCTION OF LANNER DRIVE & THORNBOROUGH DRIVE.
DATUM IN TERMS OF MEAN SEA LEVEL (LYTELTON VERTICAL DATUM 1937) PRIOR TO CANTERBURY QUAKES OF 2010 & 2011. LEVELS BROUGHT TO SITE USING GPS.
 - ALL SEWER AND STORMWATER LATERALS TO BE LAID AT 1:60. MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.
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 - ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.
 - RAMPED RISERS ARE TO BE USED FOR LATERALS TO ENSURE A MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.
 - BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.
 - SOAKPIT SIZES TO BE CONFIRMED WITH ENGINEER AFTER ON SITE SOAKAGE TESTING.

	NAME	SIGNED	DATE
DESIGNED BY	BEN FOX	BEN FOX	29.09.2020
CHECKED BY	ANDY HALL	ANDY HALL	29.09.2020



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Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

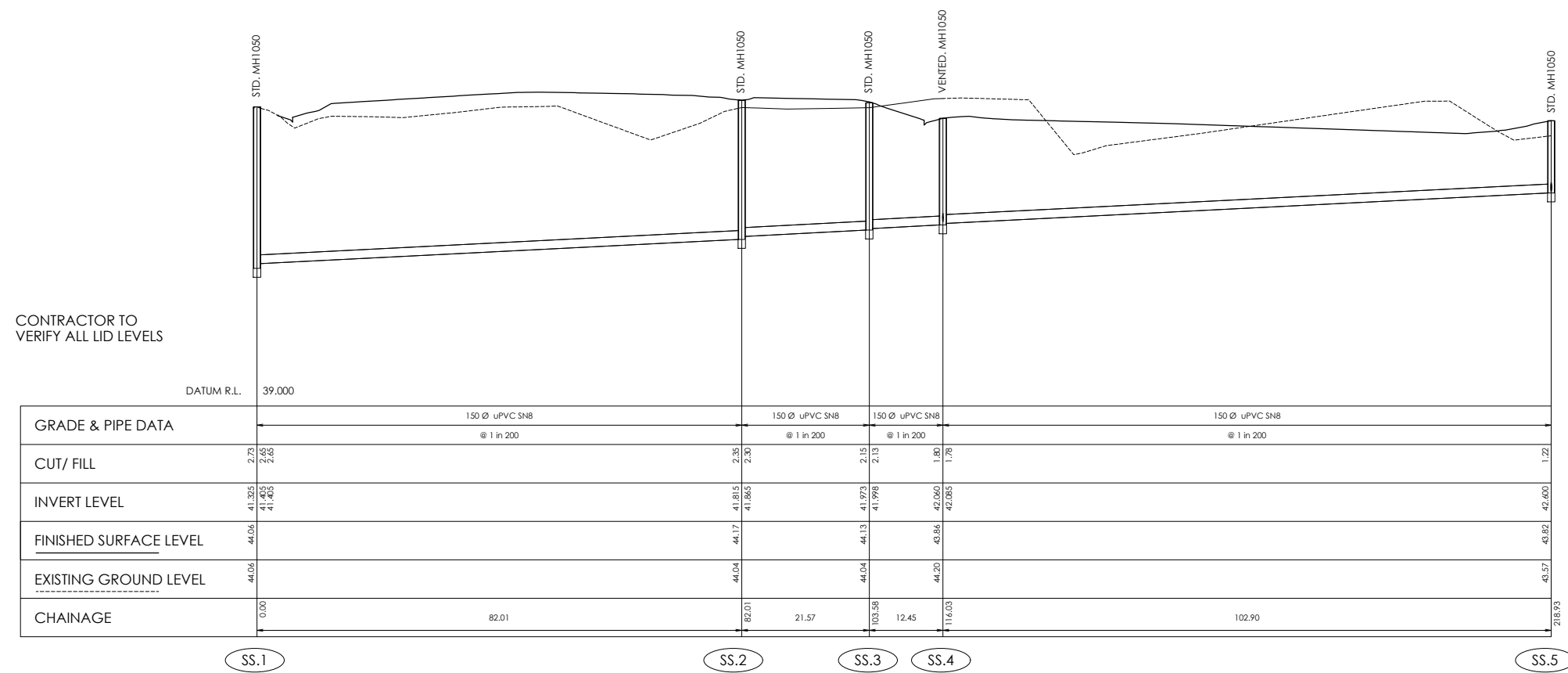
JOB TITLE:
**Delapre
585 & 587 & 597 Springston
Rolleston Road**

SHEET TITLE:
**Stormwater Details
RC 205336 & Lot 103**

DRAWING STATUS:
For Engineering Approval

SCALE: As Shown DATE: September 2020

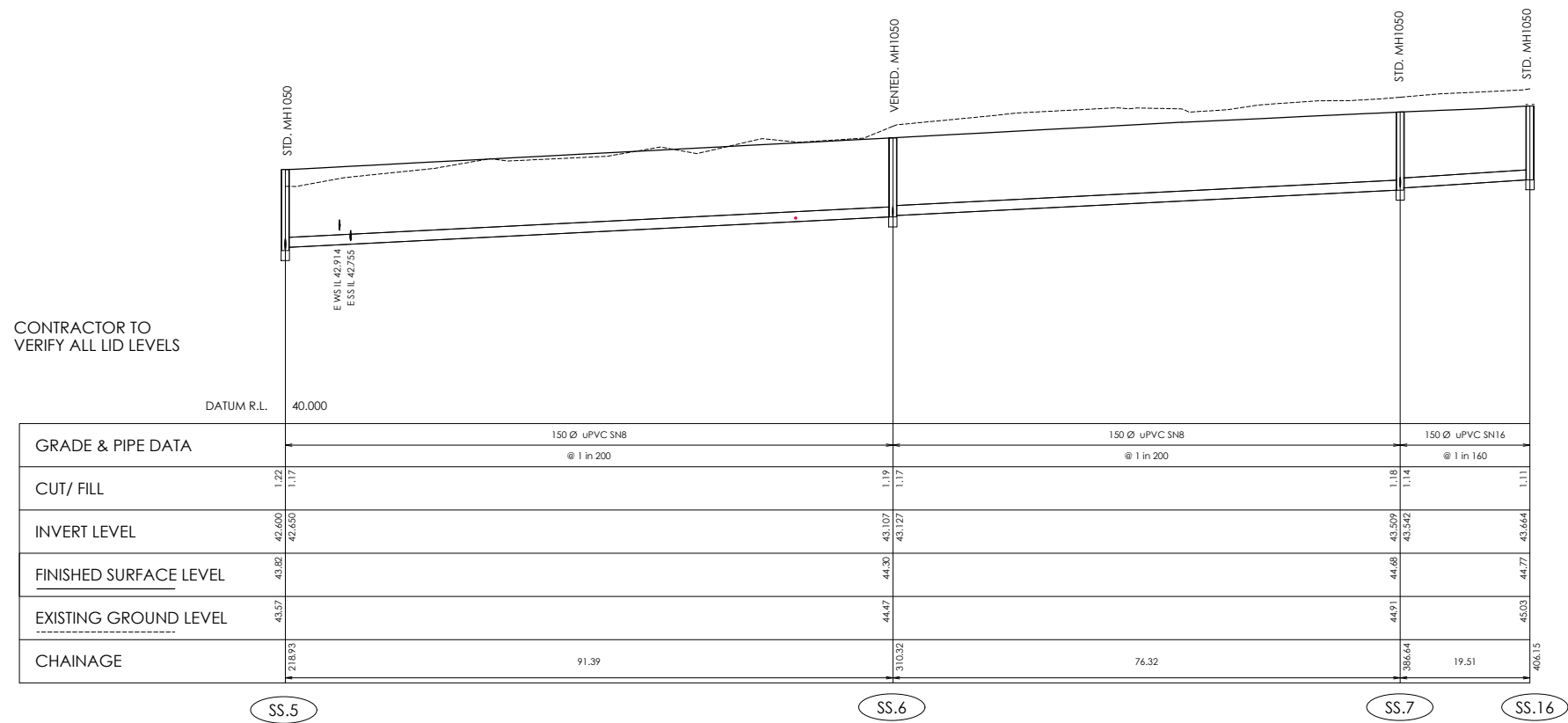
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DRAWING No :	SHEET No :
19771	E04.2
	REVISION :
	R3



CONTRACTOR TO VERIFY ALL LID LEVELS

SEWER LONGSECTION
SS.1 TO SS.5

Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3



CONTRACTOR TO VERIFY ALL LID LEVELS

SEWER LONGSECTION
SS.5 TO SS.16

Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	NO CHANGE THIS SHEET
R3	29/09/2020	SEWER LONGSECTIONS UPDATED

- NOTES :
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 - ORIGIN OF LEVELS
BM.MA 2 DP 526223
RL=41.558m
LOCATED AT JUNCTION OF LANNER DRIVE & THORNBOROUGH DRIVE.
DATUM IN TERMS OF MEAN SEA LEVEL (LYTELTON VERTICAL DATUM 1937) PRIOR TO CANTERBURY QUAKES OF 2010 & 2011.
LEVELS BROUGHT TO SITE USING GPS.
 - ALL SEWER AND STORMWATER LATERALS TO BE LAID AT 1:80, MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.
 - NOMINATED PIPE SIZES ARE INTERNAL DIAMETER UNLESS NOTED OTHERWISE.
 - ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.
 - MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.
 - BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.

DESIGNED BY	NAME	SIGNED	DATE
BEN FOX	BEN FOX		29.09.2020
CHECKED BY	ANDY HALL	ANDY HALL	29.09.2020



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JOB TITLE:
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Rolleston Road**

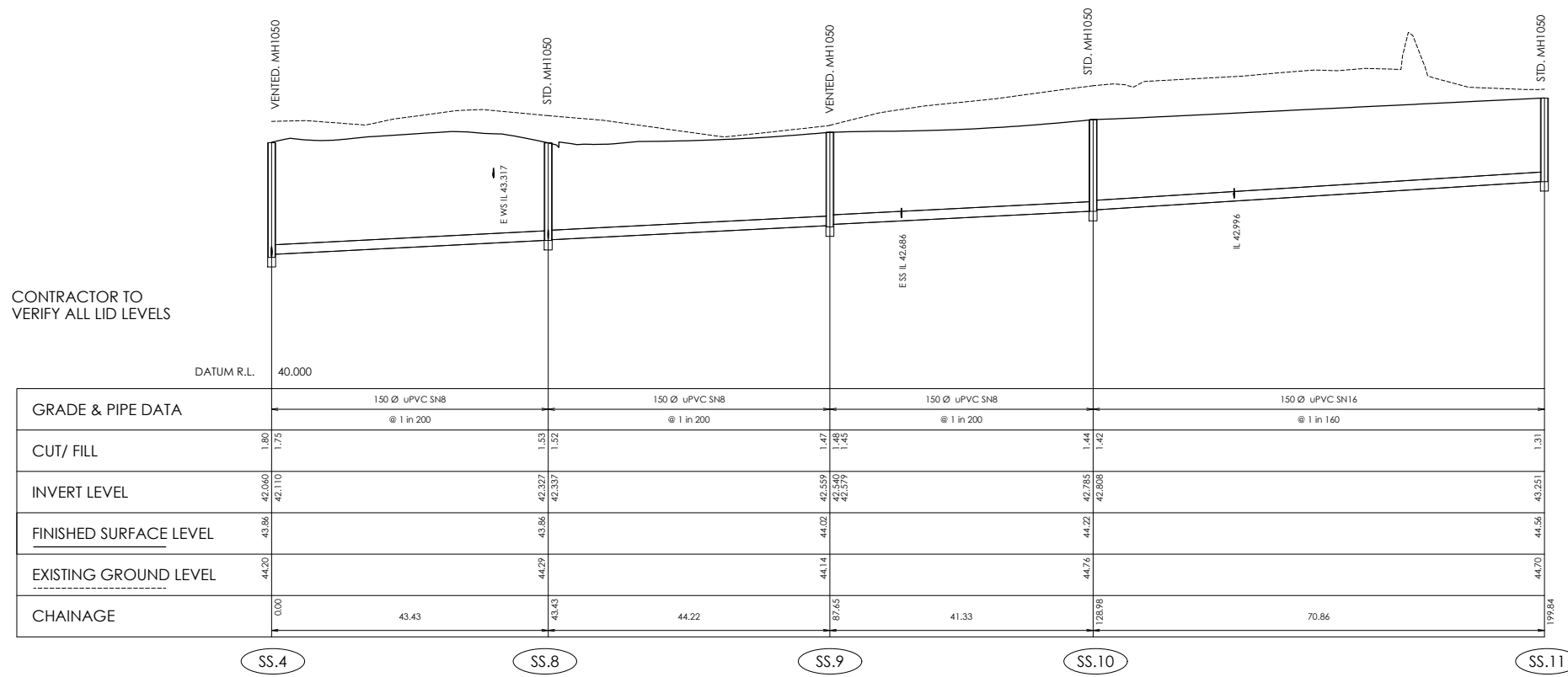
SHEET TITLE:
**Sewer Longsections
RC 205336 & Lot 103**

DRAWING STATUS
For Engineering Approval

SCALE: As Shown DATE: September 2020

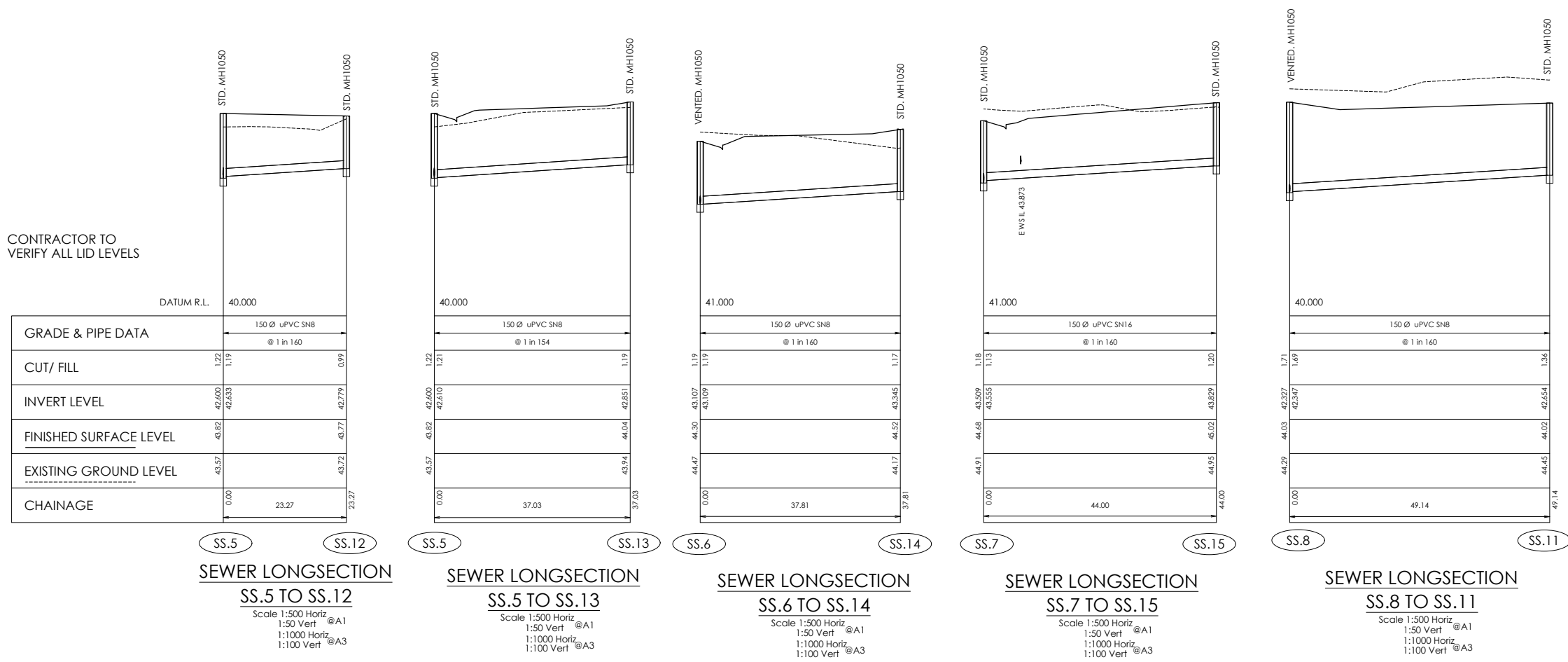
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DRAWING No : **19771** SHEET No: **E04.3** REVISION : **R3**



SEWER LONGSECTION
SS.4 TO SS.11

Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3



AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	NO CHANGE THIS SHEET
R3	29/09/2020	SEWER LONGSECTIONS UPDATED

- NOTES:
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 - REFER TO LONGSECTIONS FOR ALL SEWER & STORMWATER LEVELS.
 - ORIGIN OF LEVELS
B.M. MA 2 DP 526223
RL=41.598m
LOCATED AT JUNCTION OF LANNER DRIVE & THORNBOROUGH DRIVE.
DATUM IN TERMS OF MEAN SEA LEVEL (LYTELTON VERTICAL DATUM 1937) PRIOR TO CANTERBURY QUAKES OF 2010 & 2011.
LEVELS BROUGHT TO SITE USING GPS.
 - ALL SEWER AND STORMWATER LATERALS TO BE LAID AT 1:80. MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.
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 - MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.
 - BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.

DESIGNED BY	NAME	SIGNED	DATE
BEN FOX	BEN FOX	BEN FOX	29.09.2020
CHECKED BY	ANDY HALL	ANDY HALL	29.09.2020



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Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

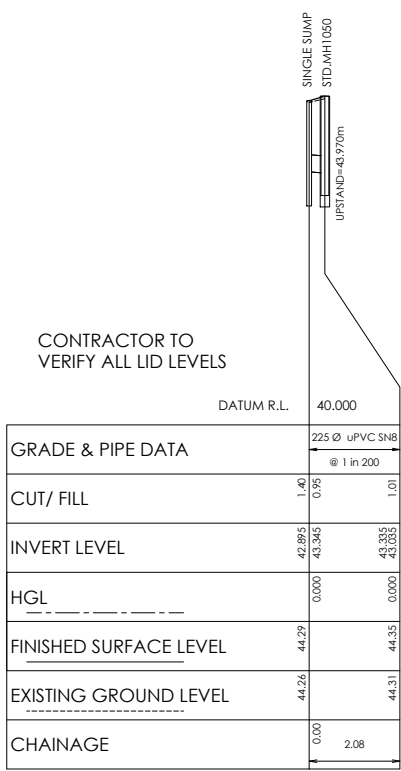
JOB TITLE:
**Delapre
585 & 587 & 597 Springston
Rolleston Road**

SHEET TITLE:
**Sewer Longsections
RC 205336 & Lot 103**

DRAWING STATUS:
For Engineering Approval

SCALE: As Shown DATE: September 2020

CAD FILE : \\19771\Eng\Drawings\19771_E04.3_R3.dwg	DRAWN : DG
DRAWING No : 19771	SHEET No : E04.4
	REVISION : R3

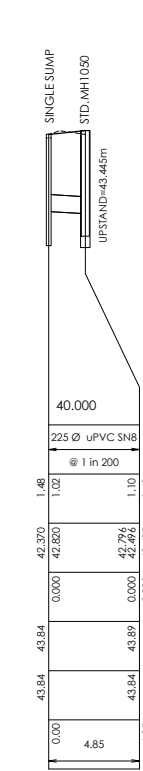


GRADE & PIPE DATA	
CUT/ FILL	1.40
INVERT LEVEL	42.895
HGL	0.000
FINISHED SURFACE LEVEL	44.29
EXISTING GROUND LEVEL	44.26
CHAINAGE	0.00

SW.1A SW.1

SW LONGSECTION
SW.1A TO SW.1

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

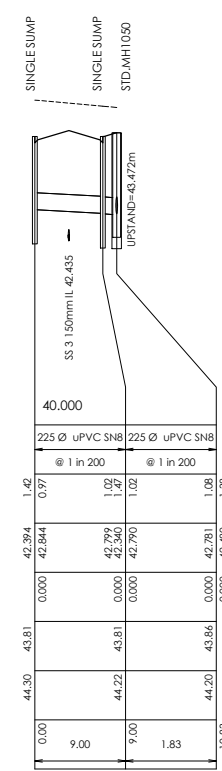


GRADE & PIPE DATA	
CUT/ FILL	1.46
INVERT LEVEL	42.820
HGL	0.000
FINISHED SURFACE LEVEL	43.84
EXISTING GROUND LEVEL	43.84
CHAINAGE	0.00

SW.2A SW.2

SW LONGSECTION
SW.2A TO SW.2

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

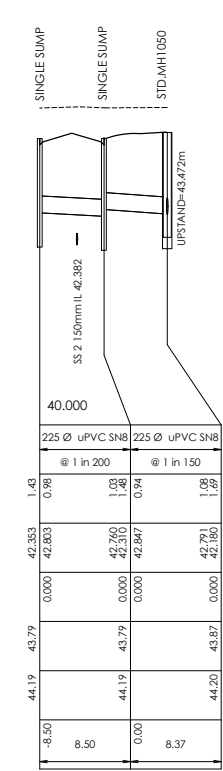


GRADE & PIPE DATA	
CUT/ FILL	1.42
INVERT LEVEL	42.844
HGL	0.000
FINISHED SURFACE LEVEL	43.81
EXISTING GROUND LEVEL	44.30
CHAINAGE	0.00

SW.3B SW.3A SW.3

SW LONGSECTION
SW.3B TO SW.3

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

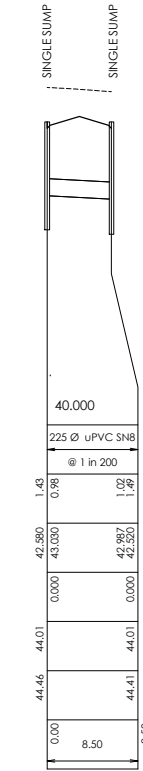


GRADE & PIPE DATA	
CUT/ FILL	1.43
INVERT LEVEL	42.833
HGL	0.000
FINISHED SURFACE LEVEL	43.79
EXISTING GROUND LEVEL	44.19
CHAINAGE	0.00

SW.3D SW.3C SW.3

SW LONGSECTION
SW.3D TO SW.3

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

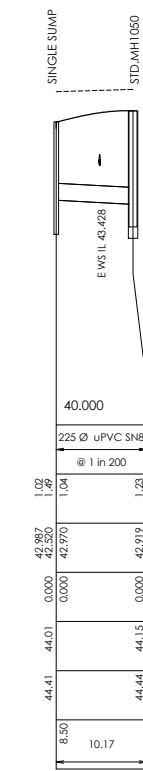


GRADE & PIPE DATA	
CUT/ FILL	1.43
INVERT LEVEL	42.860
HGL	0.000
FINISHED SURFACE LEVEL	44.46
EXISTING GROUND LEVEL	44.46
CHAINAGE	0.00

SW.4B SW.4A

SW LONGSECTION
SW.4B TO SW.4A

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

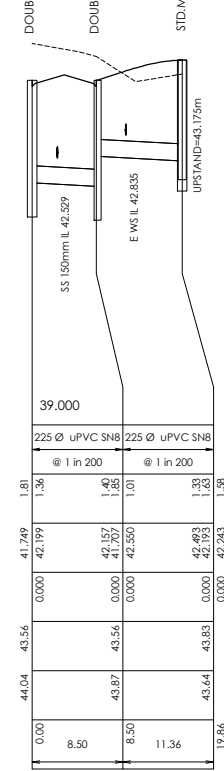


GRADE & PIPE DATA	
CUT/ FILL	1.42
INVERT LEVEL	42.887
HGL	0.000
FINISHED SURFACE LEVEL	44.41
EXISTING GROUND LEVEL	44.41
CHAINAGE	0.00

SW.4A SW.4

SW LONGSECTION
SW.4A TO SW.4

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

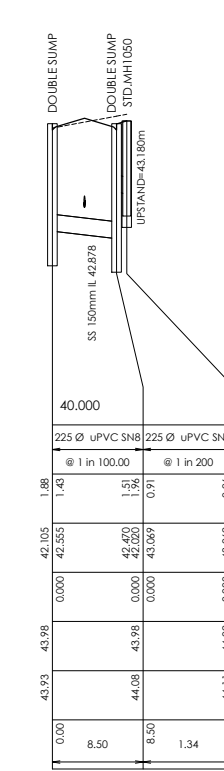


GRADE & PIPE DATA	
CUT/ FILL	1.81
INVERT LEVEL	41.749
HGL	0.000
FINISHED SURFACE LEVEL	44.04
EXISTING GROUND LEVEL	44.04
CHAINAGE	0.00

SW.5B SW.5A SW.5

SW LONGSECTION
SW.5B TO SW.5

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

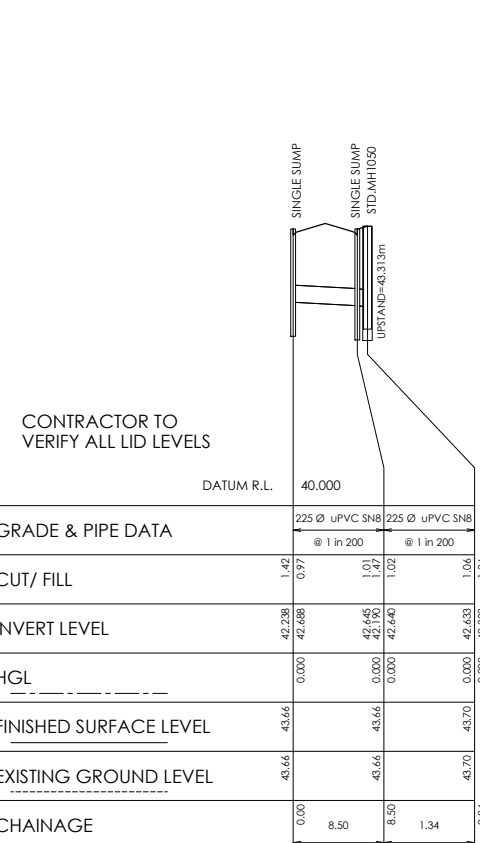


GRADE & PIPE DATA	
CUT/ FILL	1.43
INVERT LEVEL	42.105
HGL	0.000
FINISHED SURFACE LEVEL	43.98
EXISTING GROUND LEVEL	43.93
CHAINAGE	0.00

SW.6B SW.6A SW.6

SW LONGSECTION
SW.6B TO SW.6

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

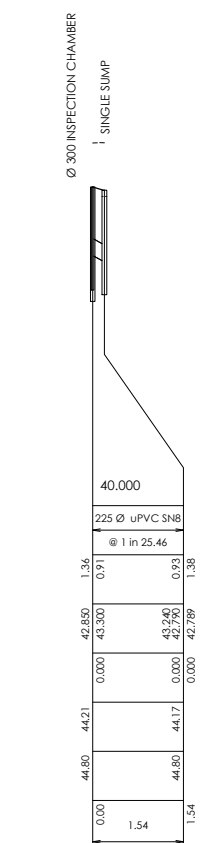


GRADE & PIPE DATA	
CUT/ FILL	1.42
INVERT LEVEL	42.238
HGL	0.000
FINISHED SURFACE LEVEL	43.66
EXISTING GROUND LEVEL	43.66
CHAINAGE	0.00

SW.7B SW.7A SW.7

SW LONGSECTION
SW.7B TO SW.7

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

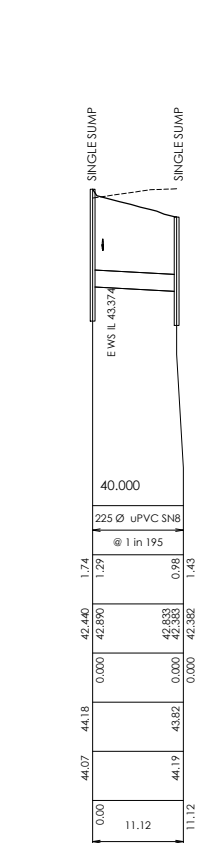


GRADE & PIPE DATA	
CUT/ FILL	1.34
INVERT LEVEL	42.850
HGL	0.000
FINISHED SURFACE LEVEL	44.21
EXISTING GROUND LEVEL	44.80
CHAINAGE	0.00

SW.8B SW.8A

SW LONGSECTION
SW.8B TO SW.8A

Scale 1:500 Horiz
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1:1000 Horiz @A3
1:100 Vert @A3

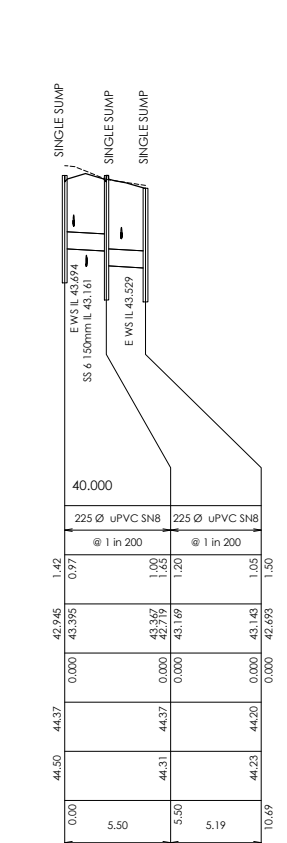


GRADE & PIPE DATA	
CUT/ FILL	1.29
INVERT LEVEL	42.890
HGL	0.000
FINISHED SURFACE LEVEL	44.18
EXISTING GROUND LEVEL	44.07
CHAINAGE	0.00

SW.9B SW.9A

SW LONGSECTION
SW.9B TO SW.9A

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

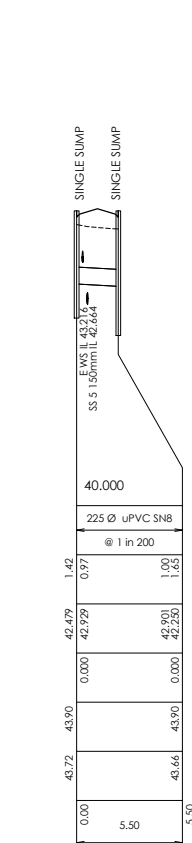


GRADE & PIPE DATA	
CUT/ FILL	1.42
INVERT LEVEL	42.945
HGL	0.000
FINISHED SURFACE LEVEL	44.37
EXISTING GROUND LEVEL	44.50
CHAINAGE	0.00

SW.10C SW.10B SW.10A

SW LONGSECTION
SW.10C TO SW.10A

Scale 1:500 Horiz
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1:1000 Horiz @A3
1:100 Vert @A3

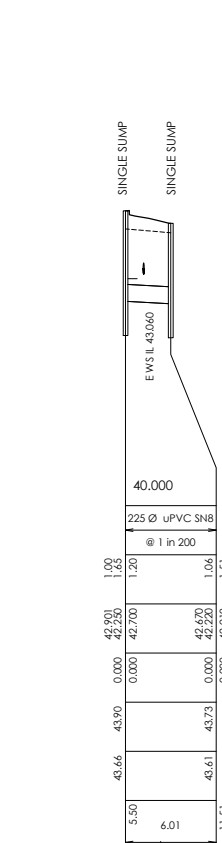


GRADE & PIPE DATA	
CUT/ FILL	1.42
INVERT LEVEL	42.479
HGL	0.000
FINISHED SURFACE LEVEL	43.90
EXISTING GROUND LEVEL	43.73
CHAINAGE	0.00

SW.11C SW.11B

SW LONGSECTION
SW.11C TO SW.11B

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

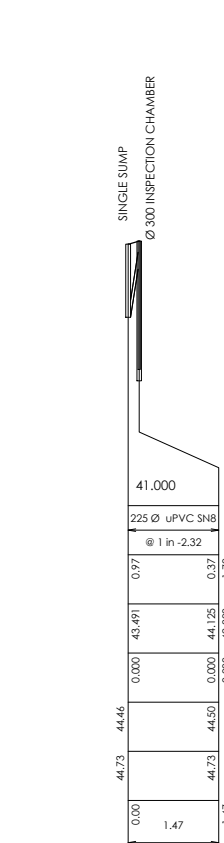


GRADE & PIPE DATA	
CUT/ FILL	1.20
INVERT LEVEL	42.900
HGL	0.000
FINISHED SURFACE LEVEL	43.66
EXISTING GROUND LEVEL	43.66
CHAINAGE	0.00

SW.11B SW.11A

SW LONGSECTION
SW.11B TO SW.11A

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

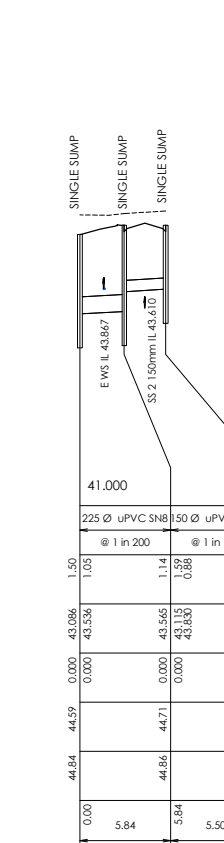


GRADE & PIPE DATA	
CUT/ FILL	0.97
INVERT LEVEL	43.491
HGL	0.000
FINISHED SURFACE LEVEL	44.73
EXISTING GROUND LEVEL	44.73
CHAINAGE	0.00

SW.12A SW.12

SW LONGSECTION
SW.12A TO SW.12

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3



GRADE & PIPE DATA	
CUT/ FILL	1.50
INVERT LEVEL	43.086
HGL	0.000
FINISHED SURFACE LEVEL	44.84
EXISTING GROUND LEVEL	44.84
CHAINAGE	0.00

SW.13A SW.13B SW.13C

SW LONGSECTION
SW.13A TO SW.13C

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	NO CHANGE THIS SHEET
R3	29/09/2020	SEWER LONGSECTIONS UPDATED

- NOTES:
- ALL WORKS IN ACCORDANCE WITH CCC IDS AND CSS PARTS 1-7 CURRENT ISSUE.
 - ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
 - ALL SERVICES TO BE FULLY SEARCHED AND PILOTTED PRIOR TO TRENCHING.
 - ALL UPVC PIPES (WHETHER SEWER OR STORMWATER) SHALL CONFORM TO AS NZS 1240:1999 AND SHALL HAVE THE FOLLOWING STIFFNESS NUMBERS AS SET OUT IN THE STANDARD: DN 100 AND 150: SN16; DN225 AND LARGER: SN8.
 - ALL SERVICES UP DRIVEWAYS & ROWS TO BE INSTALLED BY A REGISTERED DRAIN LAYER AND IN TERMS OF THE BUILDING CONSENT.
 - REFER TO LONGSECTIONS FOR ALL SEWER & STORMWATER LEVELS.
 - ORIGIN OF LEVELS
BMLAA 2 DF 526223
RL=41.558m
LOCATED AT JUNCTION OF LANNER DRIVE & THORNBOROUGH DRIVE.
DATUM IN TERMS OF MEAN SEA LEVEL (LYTTELTON VERTICAL DATUM 1937) PRIOR TO CANTERBURY QUAKES OF 2010 & 2011. LEVELS BROUGHT TO SITE USING GPS.
 - ALL SEWER AND STORMWATER LATERALS TO BE LAID AT 1:80, MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.
 - NOMINATED PIPE SIZES ARE INTERNAL DIAMETER UNLESS NOTED OTHERWISE.
 - ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.
 - MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.
 - BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.

DESIGNED BY	NAME	SIGNED	DATE
BEN FOX	BEN FOX	BEN FOX	29.09.2020
CHECKED BY	ANDY HALL	ANDY HALL	29.09.2020

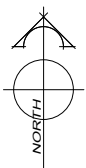

DAVIE LOVELL-SMITH
 PLANNING SURVEYING ENGINEERING
 116 Wrights Road P O Box 679 Christchurch 8140 New Zealand
 Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

Delapre
585 & 587 & 597 Springston
Rolleston Road

Stormwater Longsections
RC 205336 & Lot 103

For Engineering Approval

SCALE: As Shown	DATE: September 2020
CAD FILE: \\19771\Eng\Drawings\19771_E043_R3.dwg	DRAWN: DG
DRAWING No: 19771	SHEET No: E04.5
	REVISION: R3



AMENDMENT	DATE	DESCRIPTION
R2	20/07/20	NO CHANGE THIS SHEET
R3	29/09/20	WATER LAYOUT UPDATED

- NOTES:
- ALL WORKS IN ACCORDANCE WITH SDC CODE OF PRACTICE PARTS 1-11, IF STANDARDS ARE UNSPECIFIED REFER TO CCC CSS PARTS 1-7 CURRENT ISSUE.
 - ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
 - TRENCHING AND INSTALLATION OF POWER AND TELECOM SERVICES TO BE PROVIDED IN ACCORDANCE WITH SERVICE PROVIDERS PLANS AND SPECIFICATIONS.
 - ALL SERVICES TO BE FULLY SEARCHED AND PILOTTED PRIOR TO TRENCHING.
 - ALL WATER PIPES TO BE PE-PN12 AND ALL FITTINGS TO BE PN16.
 - WATERMANS AND SUBMANS TO BE INSTALLED AT THE OFFSET STATED ON THE PLAN AND AGREED WITH ENGINEER.
 - WATERMANS TO HAVE A MINIMUM COVER OF 0.75M IN ROADS AND 0.6m IN BERMS.
 - REGISTERED CRAFTSMAN PLUMBER TO INSTALL ALL REAR LOT LATERALS. REFER TO THE BUILDING CODE.
 - VALVE LOCATIONS TO BE ADJACENT TO TEES AND AGREED WITH ENGINEER.
 - CONTRACTOR TO INSTALL WATER MAIN TO ENSURE NO CLASHES WITH OTHER SERVICES. TO BE INSTALLED IN ACCORDANCE WITH THE IDS 7.9.5.
 - CONTRACTOR TO INSTALL THRUST BLOCKS AT ALL POINTS OF UNEVEN PRESSURE.
 - FIRE HYDRANTS TO COMPLY WITH SDC WS 1.0.
 - WATER METERS TO COMPLY WITH SDC WS 3.08.
 - CHLORINATION POINTS TO BE CONFIRMED WITH ENGINEER DURING CONSTRUCTION.

LEGEND:

EXISTING SERVICES	PROPOSED SERVICES
WATER	WATER
KERB	KERB
FH	FH
VALVE	VALVE

DESIGNED BY	SIGNED	DATE
BEN FOX	BEN FOX	29.09.2020
CHECKED BY	SIGNED	DATE
ANDY HALL	ANDY HALL	29.09.2020



116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
 Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:
**Delapre
 585 & 587 & 597 Springston
 Rolleston Road**

SHEET TITLE:
**Water Plan
 RC 205336 & Lot 103**

DRAWING STATUS:
For Engineering Approval

SCALE: 1:500@A1 DATE: September 2020
 1:1000@A3

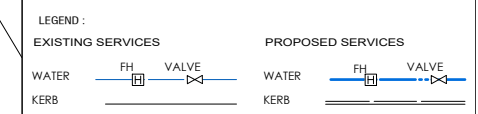
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AMENDMENT	DATE	DESCRIPTION
R2	20/07/2020	NO CHANGE THIS SHEET
R3	29/09/20	WATER LAYOUT UPDATED

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	NAME	SIGNED	DATE
DESIGNED BY	BEN FOX		29.09.2020
CHECKED BY	ANDY HALL		29.09.2020



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SCALE: 1:500@A1 DATE: September 2020
 1:1000@A3

DRAWING No:	SHEET No:	REVISION:
19771	E05.1	R3