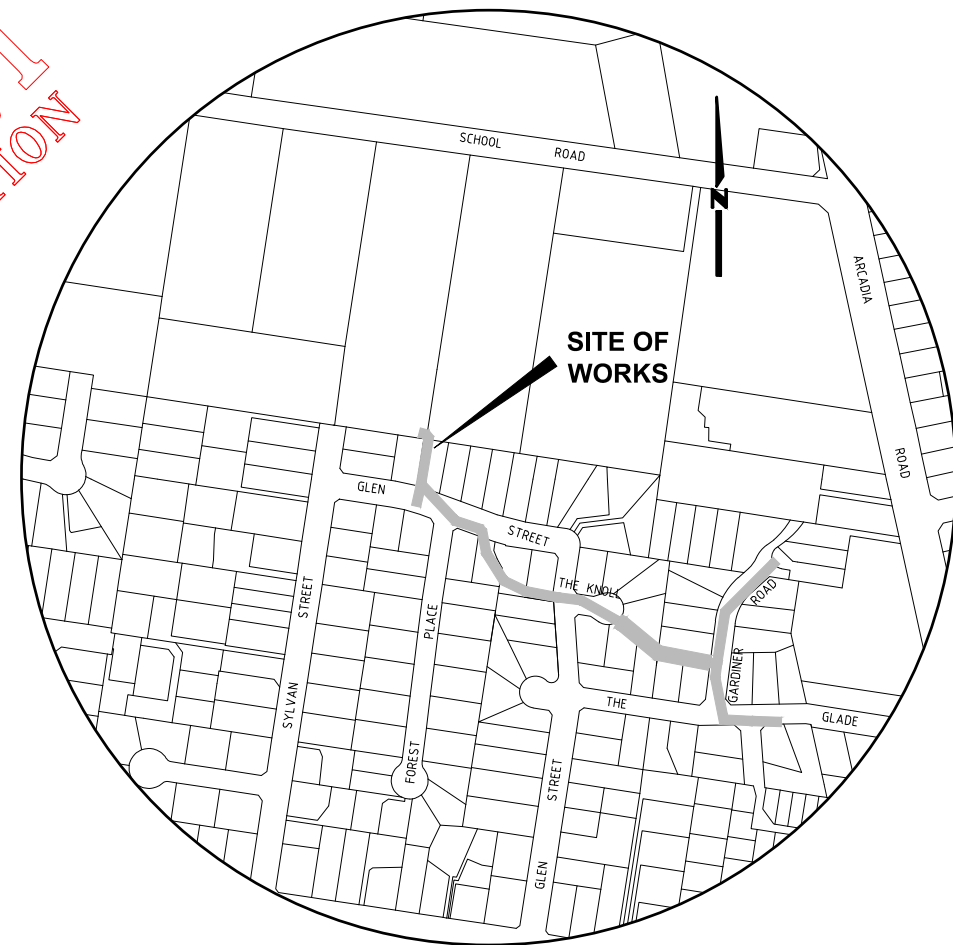


GALSTON MAJOR DRAINAGE UPGRADE

GLEN ST, THE KNOLL, GARDINER RD & THE GLADE, GALSTON

DRAWING SCHEDULE		
SHEET No.	TITLE	ISSUE
1	DRAWING SCHEDULE & LOCALITY PLAN.	A
2	PROJECT NOTES, ROAD PAVEMENT RESTORATION DETAIL & LEGEND	A
3	STAGING PLAN.	A
4	OVERALL LAYOUT PLAN.	A
5	GENERAL WORKS & SERVICES PLAN - SHEET 1 OF 7	A
6	GENERAL WORKS & SERVICES PLAN - SHEET 2 OF 7	A
7	GENERAL WORKS & SERVICES PLAN - SHEET 3 OF 7	A
8	GENERAL WORKS & SERVICES PLAN - SHEET 4 OF 7	A
9	GENERAL WORKS & SERVICES PLAN - SHEET 5 OF 7	A
10	GENERAL WORKS & SERVICES PLAN - SHEET 6 OF 7	A
11	GENERAL WORKS & SERVICES PLAN - SHEET 7 OF 7	A
12	OUTLET DETAIL PLAN AND SECTION.	A
13	DRAINAGE LONGITUDINAL SECTION - SHEET 1 OF 4.	A
14	DRAINAGE LONGITUDINAL SECTION - SHEET 2 OF 4.	A
15	DRAINAGE LONGITUDINAL SECTION - SHEET 3 OF 4.	A
16	DRAINAGE LONGITUDINAL SECTION - SHEET 4 OF 4.	A
17	OVERLAND FLOWPATH - PLAN & LONGITUDINAL SECTION.	A
18	OVERLAND FLOWPATH - CROSS SECTIONS.	A
19	OVERLAND FLOWPATH - CROSS SECTIONS.	A
20	OVERLAND FLOWPATH - CROSS SECTIONS.	A



LOCALITY PLAN

NOT TO SCALE

<h1 style="text-align: center;">ASSET MANAGEMENT & MAINTENANCE BRANCH</h1>		
Senior Asset Engineer		
Name: J. HURTIS		Telephone: 9847 6679
Accepted as complying with the general intent of the design brief		
Signed:		Date:
Project Number		
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HSC Drawing Number		
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GALSTON MAJOR DRAINAGE UPGRADE GLEN ST, THE KNOLL, GARDINER RD & THE GLADE, GALSTON

DRAWING SCHEDULE & LOCALITY PLAN

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS & SPECIFICATIONS OF HORNSBY SHIRE COUNCIL.
2. LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS & NOT FROM SURVEY PEGS.
3. PROVIDE TRAFFIC MANAGEMENT, LINE MARKING & SIGNAGE IN ACCORDANCE WITH THE TfNSW "TRAFFIC CONTROL AT WORK SITES" TECHNICAL MANUAL & AS1742.3 REQUIREMENTS.
4. SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED FROM THE RELEVANT AUTHORITIES VIA A "DIAL BEFORE YOU DIG" ENQUIRY. THE LOCATION OF SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES & FIELD INVESTIGATIONS & ARE TO BE VERIFIED PRIOR TO CONSTRUCTION.
5. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.
6. ALL DISTURBED AREAS OF THE SITE ARE TO BE REINSTATED WITH EXISTING OR MATCHING MATERIALS UNLESS NOTED OTHERWISE AT THE COMPLETION OF THE WORKS.
7. ARRANGE SET-OUT BY HORNSBY SHIRE COUNCIL DESIGN & CONSTRUCTION BRANCH SURVEYOR. NOTIFY ENGINEERING SURVEYOR A MINIMUM OF 24 HOURS IN ADVANCE.
8. REFER TO TRIM DOCUMENT No. FOR DETAIL OF UNDERGROUND UTILITY LOCATING CONDUCTED BY SURESEARCH IN MAY 2025.
9. UNDERTAKE LIAISON SURVEY OF EXISTING ADJACENT STRUCTURES BEFORE COMMENCEMENT OF WORKS.

1. THE CONSTRUCTOR SHALL COMPLY WITH ALL STATUTORY & INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
2. THE CONSTRUCTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON & APPROVED BY COUNCIL/REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.
3. THE CONSTRUCTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS/RESIDENCES ADJACENT TO THE WORKS IS NOT DISRUPTED.
4. WHERE NECESSARY THE CONSTRUCTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
5. THE CONSTRUCTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCIL REQUIREMENTS.

1. A GEO-TECHNICAL INVESTIGATION HAS BEEN UNDERTAKEN BY STS GEOTECHNICS PTY LTD (REPORT No.) IN THE LOCATION OF THE PROPOSED WORKS. THE REPORT CAN BE FOUND IN COUNCIL'S DOCUMENT MANAGEMENT SYSTEM AS DOCUMENT#
2. EXCAVATIONS ARE NOT EXPECTED TO ENCOUNTER THE GROUNDWATER TABLE, HOWEVER SHOULD ANY SIGNIFICANT GROUNDWATER INFLOWS BE ENCOUNTERED DURING EXCAVATION, STS MUST BE CONTACTED IMMEDIATELY TO PROVIDE FURTHER ADVICE & RECOMMENDATIONS.
3. CARE REQUIRED TO ENSURE THAT ADJOINING BUILDINGS OR STRUCTURES ARE NOT DAMAGED WHEN EXCAVATING.
4. THE EXCAVATION WORKS SHALL CONFORM WITH THE NSW GOVERNMENT " CODE OF PRACTICE EXCAVATION WORK JANUARY 2020".
5. TEMPORARY BATTER SLOPE SHOULD BE PROVIDED, WITH A SLOPE OF 1(H) TO 1(V) IN CLAYEY SOIL AND 2(H) TO 1(V) IN SANDS AND FILL.
6. WHERE TEMPORARY BATTERS ARE NOT USED, IT WILL BE NECESSARY TO EITHER SUPPORT THE EXCAVATIONS USING SHORING BOXES, SHEET PILES OR OTHER FORM OF TEMPORARY SUPPORT.
7. STS CONTACT DETAILS:

CONTACT NAME: Laurie Ihnativ PH: 02 9756 2166

1. AN AHIMS WEB SEARCH HAS BEEN UNDERTAKEN FOR THIS PROJECT (REF: 694905). ALTHOUGH NO ARTIFACTS HAVE BEEN IDENTIFIED IN THIS SEARCH, SHOULD ANY POTENTIAL ARTIFACTS BE UNCOVERED THEY ARE NOT TO BE REMOVED FROM THE SITE & SHALL BE IMMEDIATELY REPORTED TO COUNCIL'S PROJECT MANAGER. REFER TO TRIM DOCUMENT # ... FOR AHIMS WEB SEARCH RESULT.

1. NO WORK SHALL BE UNDERTAKEN UNTIL ALL SEDIMENT & EROSION CONTROL MEASURES ARE IN PLACE & HAVE BEEN APPROVED BY THE CONSTRUCTION ENGINEER.
2. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED BY THE SITE SUPERVISOR ON A DAILY BASIS & SIGNED OFF ON THE BACK OF THE DAY SHEET. A CHECKLIST SHALL BE HANDED OVER TO THE PROJECT MANAGER AT THE END OF EACH DAY. STRUCTURES WILL ALSO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE & ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SOIL STOCKPILE SITE. THE PROJECT MANAGER MUST INFORM ALL CONTRACTORS & SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION CONTROL PLAN.
3. SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION WINDROWED ON THE CONTOUR.
4. TREES NEAR THE CONSTRUCTION ZONE NOT OTHERWISE PROTECTED BY FENCING SHOULD BE ARMOURED 2.0m CLEAR OF TRUNK WITH STAR PICKETS SPACED AT 1.0m CENTRES & BOUND BY BARRIER MESH (REFER TO DETAIL 'A' ON SHEET No.X). ALTERNATIVE PROTECTION SATISFYING THE PROJECT MANAGER'S REQUIREMENTS IS ACCEPTABLE. TRUNK PROTECTION SHOULD BE MAINTAINED INTACT UNTIL THE COMPLETION OF ALL WORK ON THE SITE. ALL TREES REQUIRING REMOVAL ARE SHOWN ON THIS PLAN & SHALL BE MARKED ACCORDINGLY PRIOR TO REMOVAL.
5. TOPSOIL FROM AREAS THAT WILL BE DISTURBED TO BE STRIPPED & STOCKPILED AT THE NOMINATED SITE.
6. A MINIMUM STOCK OF THE FOLLOWING SHALL BE KEPT ON SITE AT ALL TIMES:
(A) 50m ROLL OF SEDIMENT FENCE & PEGS.
(B) 50m ROLL OF BIDIM GEO-TEXTILE.
7. ANY DISTURBED AREA OF LAND SHALL BE COMPACTED AT THE END OF EACH WORKING DAY & BEFORE ANY STORM EVENT.
8. A BALLAST OR MULCHED TRACK SHALL BE PLACED AT THE ENTRANCE TO THE SITE TO MINIMISE SEDIMENT TRANSPORT & MAINTAINED DAILY. (LENGTH OF TRACK 15m MIN, BALLAST SIZE 75mm).
9. CONSTRUCTION AREA IS TO BE LIMITED AS SHOWN TO MINIMISE DISTURBANCE.
10. SEDIMENT FENCING SHALL BE PLACED AROUND THE STOCKPILE AREA.
11. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE NSW DEPT OF HOUSING PUBLICATION:- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" VOL.1, 4th EDITION.
12. ALL DISTURBED AREAS SHALL BE TURFED OR COVERED IN MULCH WITHIN 14 DAYS OF FINAL TRIMMING.

1. CONCRETE MATERIALS AND CONSTRUCTION TO: AS 3600, AS 3610.
STEEL REINFORCEMENT MATERIALS TO: AS 4671.
2. CONCRETE QUALITY TO: TO AS 1379
READY MIX CONCRETE TO: TO AS 1379
 - a) DO NOT USE ADMIXTURES WITHOUT WRITTEN APPROVAL FROM SUPERVISING ENGINEER.
 - b) CEMENT: TYPE 'GP' OR 'GB' TO AS 3972.

3. NO UNSPECIFIED HOLES, DUCTING OR CHASES ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM SUPERINTENDENT (SUPERVISING OFFICER). NO PIPES OR CONDUITS ARE PERMITTED WITHIN CONCRETE COVER.
4. DO NOT PLACE CONCRETE UNTIL REINFORCEMENT (IF USED) & FORMWORK ARE INSPECTED BY SUPERVISING ENGINEER.
5. THOROUGHLY CLEAN OUT ALL FORMWORK PRIOR TO POURING.
6. CONCRETE TO BE COMPACTED BY MECHANICAL VIBRATOR. THE VIBRATOR SHALL NOT BE USED TO SPREAD THE CONCRETE.
7. COMMENCE CURING OF ALL CONCRETE SURFACES IMMEDIATELY ON FINISHING & CONTINUE FOR 7 DAYS MINIMUM.
8. ALLOW AT LEAST 7 DAYS CURING OF WALLS PRIOR TO POURING OF LID SLAB.

1. ALL WORKS WITHIN THE TREE ROOT ZONE OF ANY TREE/S TO BE RETAINED SHOULD BE CARRIED OUT UNDER THE SUPERVISION OF AN 'AQF LEVEL 5 ARBORIST':
TREE ROOT ZONES (TRZ)

TREE SIZE	TRZ
TREES WITH A DIAMETER AT BREAST HEIGHT GREATER THAN 800mm	
9m	
TREES WITH A DIAMETER AT BREAST HEIGHT BETWEEN 400mm & 800mm	7m
TREES WITH A DIAMETER AT BREAST HEIGHT LESS THAN 400mm	4m

2. SOIL LEVELS WITHIN THE TREE ROOT ZONE OF TREES TO BE RETAINED SHOULD REMAIN AT EXISTING GRADE & UNDISTURBED.

3. EXCAVATION WITHIN THE TREE ROOT ZONE OF TREES TO BE RETAINED SHOULD BE CARRIED OUT BY HAND EXCAVATION ONLY. HAND EXCAVATION SHOULD BE CARRIED OUT UNDER THE SUPERVISION OF A QUALIFIED ARBORIST IN SUCH A MANNER THAT IS NON-INJURIOUS TO ANY ROOTS REVEALED.

4. NO TREE ROOT GREATER THAN 30mm DIAMETER LOCATED WITHIN THE TRZ OF ANY TREE TO BE RETAINED SHOULD BE SEVERED OR INJURED IN THE PROCESS OF ANY WORKS.

5. TREE ROOTS LESS THAN 30mm IN DIAMETER REQUIRED TO BE SEVERED SHALL BE CUT CLEANLY BY HAND BY A QUALIFIED & EXPERIENCED ARBORIST OR HORTICULTURIST WITH MINIMUM QUALIFICATIONS OF HORTICULTURAL CERTIFICATE OR TREE SURGERY CERTIFICATE (AQF 3).

6. ALL PRUNING SHALL BE UNDERTAKEN AS SPECIFIED IN THE AUSTRALIAN STANDARD 'PRUNING OF AMENITY TREES' (AS 4373-2009).

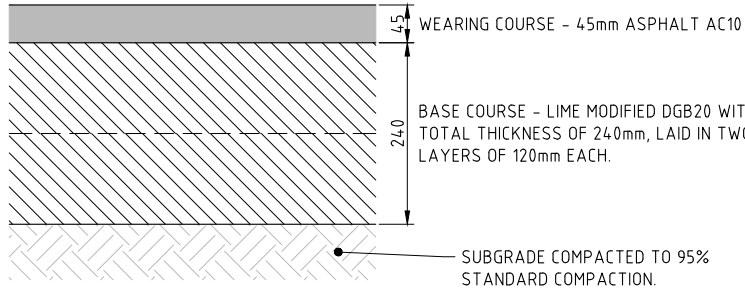
7. THE FILLING OR STOCKPILING OF BUILDING MATERIALS, PARKING OF VEHICLES OR PLANT, THE USE OF MACHINERY OTHER THAN HAND HELD, DISPOSAL OF CEMENT SLURRY, WASTE WATER OR OTHER CONTAMINANTS MUST REMAIN OUTSIDE THE TREE ROOT ZONE OF ANY TREE TO BE RETAINED.

8. ANY MECHANICAL DAMAGE TO TREES OR CHEMICAL SPILLS WITHIN THE TRZ MUST BE REPORTED TO THE PROJECT SUPERVISOR/MANAGER.

9. BARRIER MESH FENCING SHALL BE ERECTED AROUND TREES TO BE RETAINED.

10. REFER TO TRIM DOCUMENT No. ... FOR ADVICE ON IMPACTED TREES PROVIDED BY THE TREE MANAGEMENT TEAM.

11. COUNCIL'S TREE MANAGEMENT OFFICER CONTACT DETAILS: NAME: Ry Kehlet
 PH: 9847 6502



TELEPHONE: (02) 9847 6666
EMAIL: hsc@hornsby.nsw.gov.au

Authorised for release - Manager Infrastructure Planning

For: D. CARPENTER Signed: _____ Date: _____

Bar Scales

NOT TO SCALE

DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

DRAFT
not for construction

SCALE

**HORNSBY
SHIRE COUNCIL**

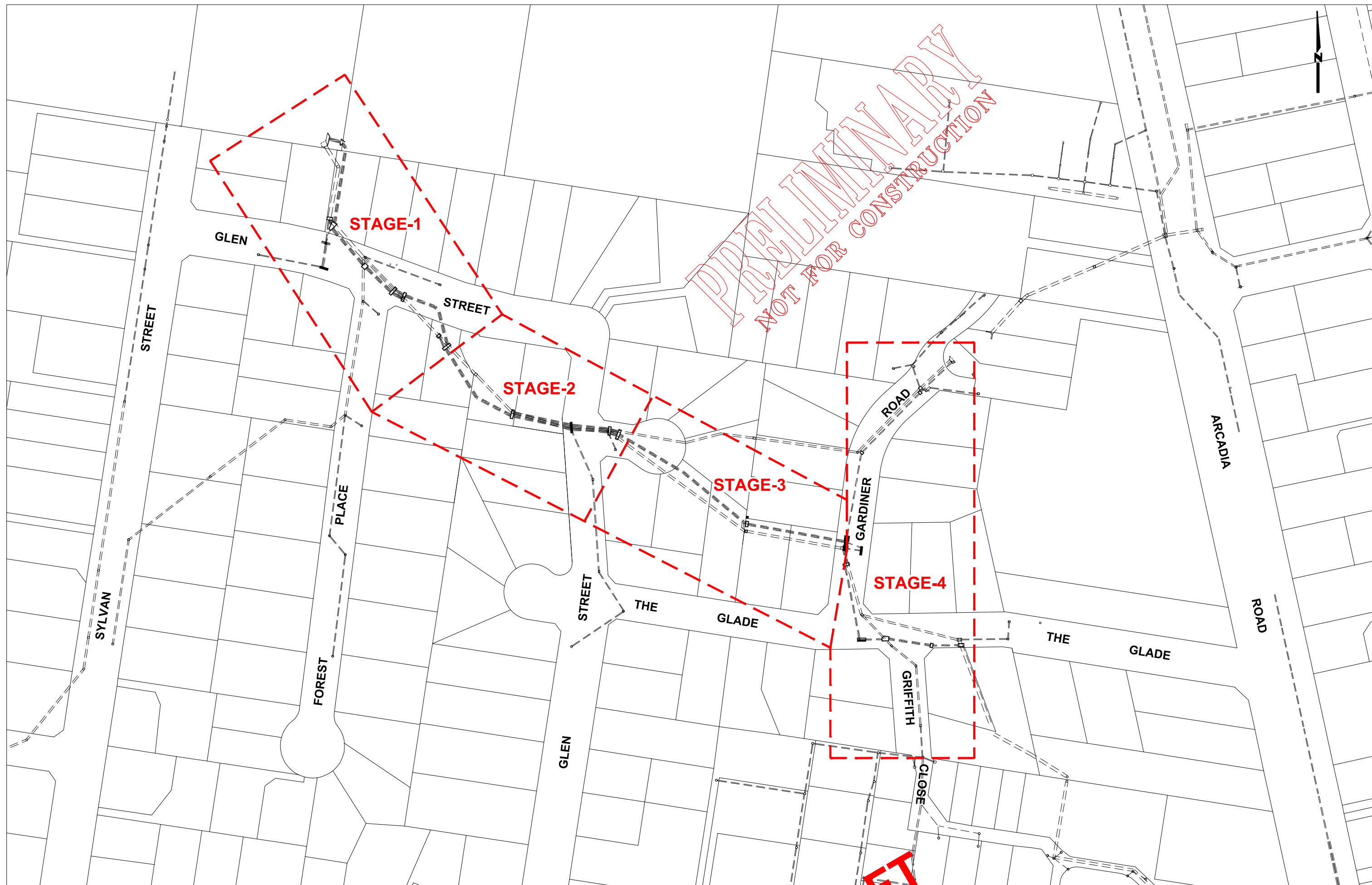
PO BOX 37, HORNSBY NSW 1630
DX 9655 HORNSBY

UNSURE DIMENSIONS ONLY

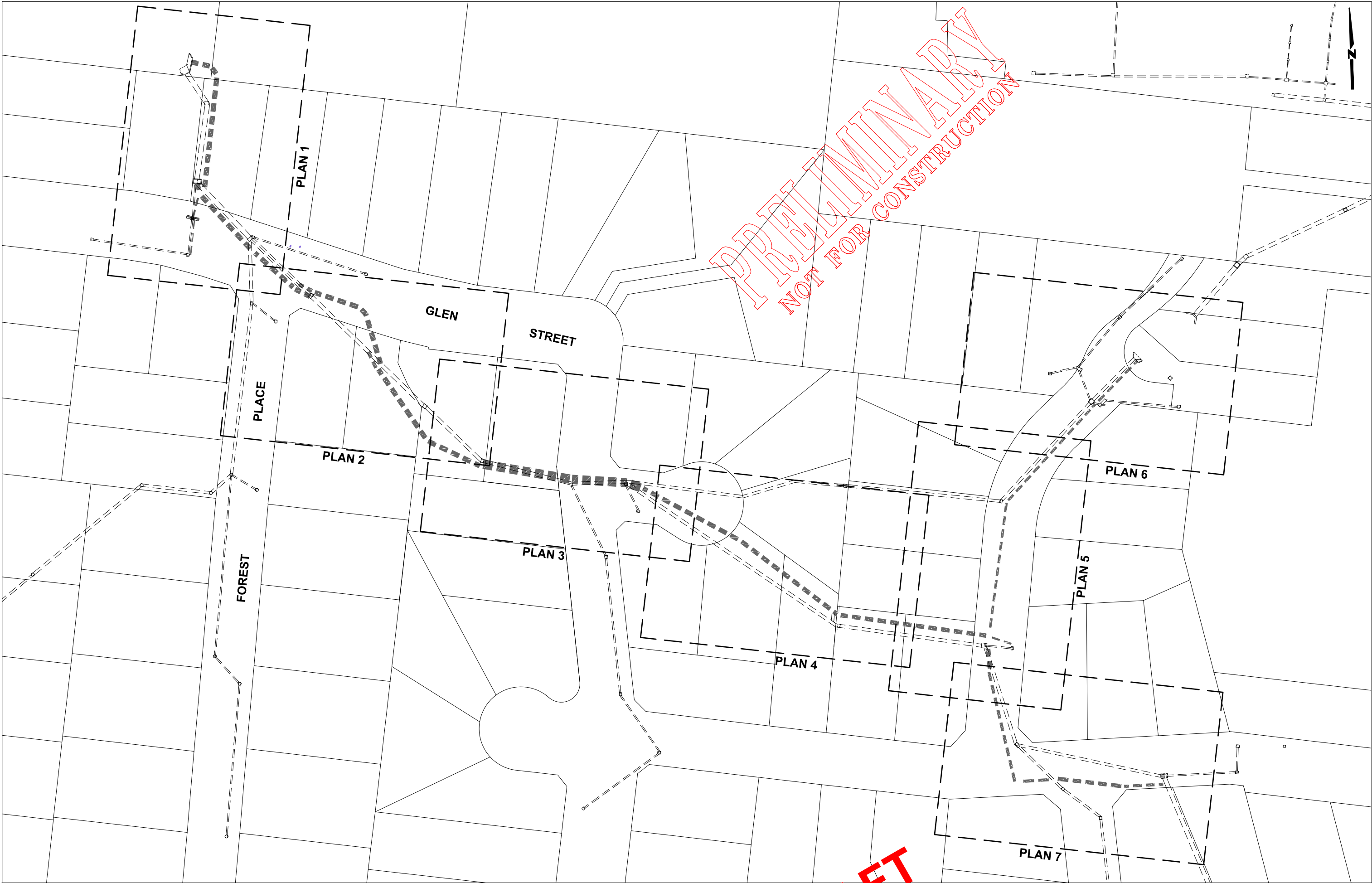
PROJECT NOTES, ROAD PAVEMENT RESTORATION DETAIL & LEGEND

Project Number		

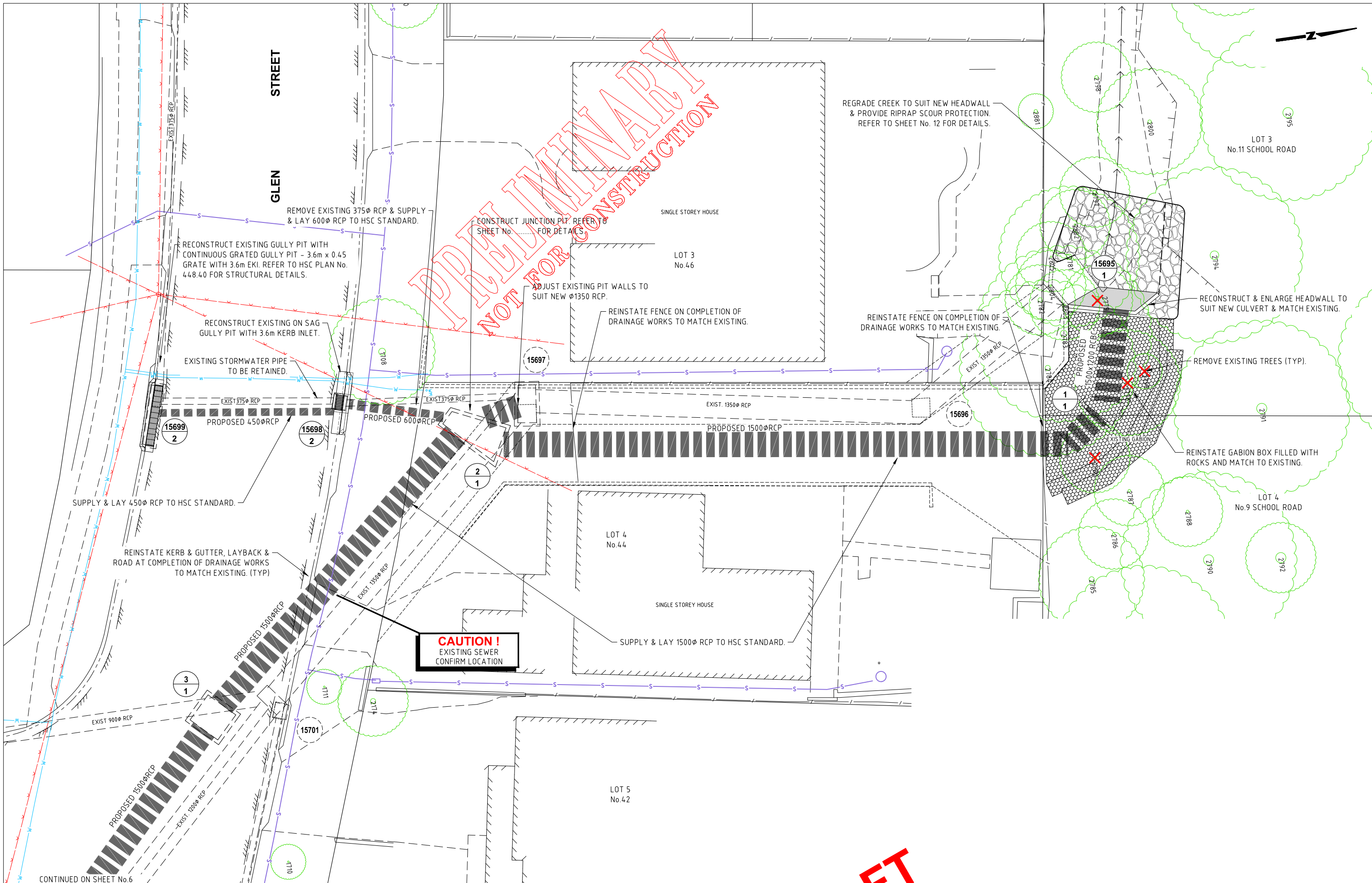
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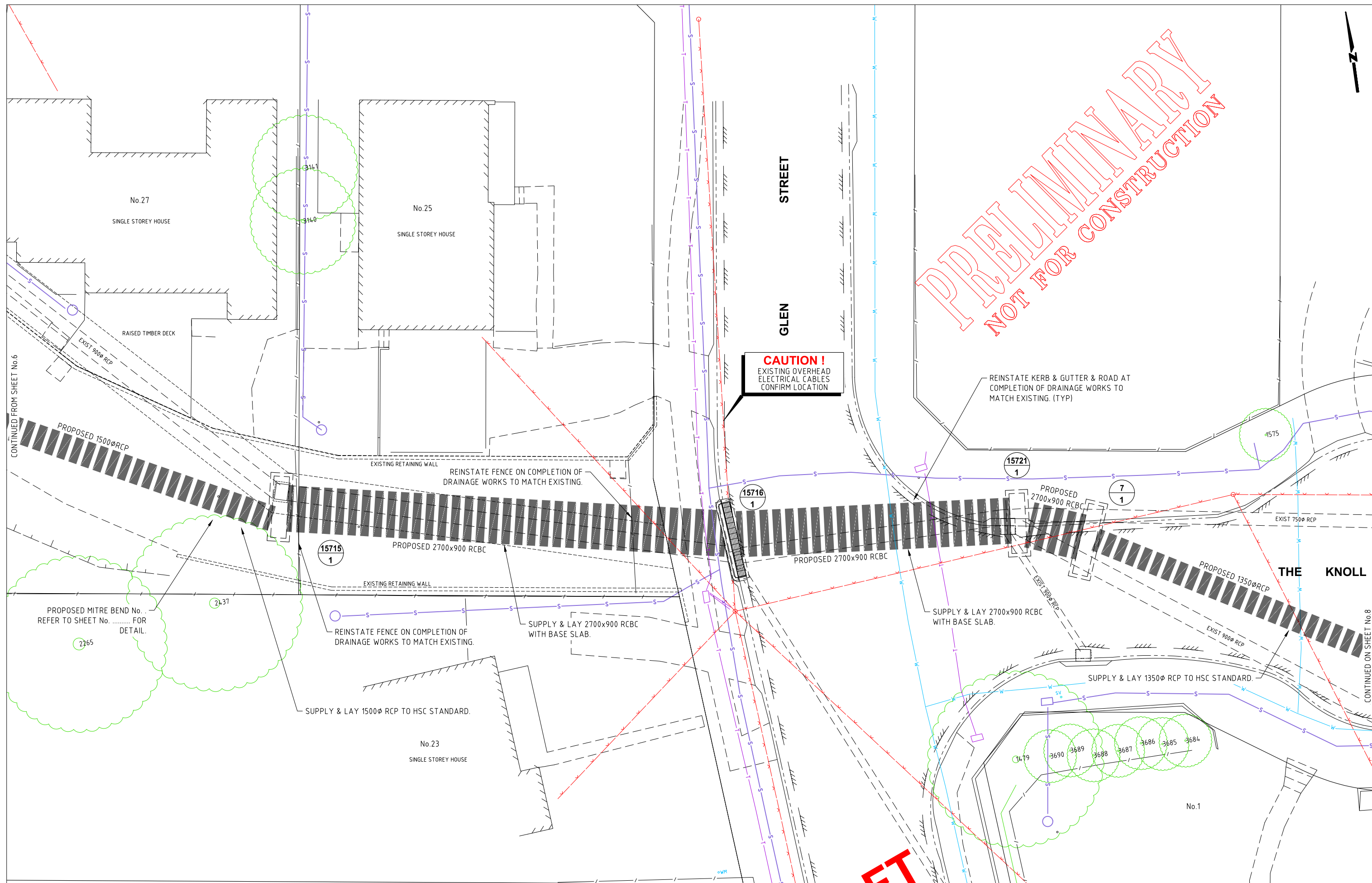
<h1>Hornsby Shire Council</h1> <h2>Infrastructure Planning</h2> <h3>- Survey & Design Branch</h3> <p>TELEPHONE: (02) 9847 6666 EMAIL: hsc@hornsby.nsw.gov.au</p>		<p>Designer: D. TAMANG</p> <p>Drawn: D. TAMANG</p> <p>Surveyor: HAMMOND SMEALLIE</p> <p>Project Identifier:\ACAD File Name H:\Galston Major Drainage Upgrade_DR_XXXXXX\Design\ACAD\Galston Drainage.dwg</p>		<p>Design Checked: Design Team Leader Signed:</p> <p>Drawing Checked Signed:</p> <p>NA Field Book</p> <p>NA Level Book</p> <p>GDA 94 Datum</p>		<p>Bar Scales</p> <p>0 7.5 15 22.5 30 37.5m</p> <p>SCALE 1:150</p> <p>@ A1</p> <p>HORNSBY SHIRE COUNCIL PO BOX 37, HORNSBY NSW 1630 DX 9665 HORNSBY</p>		<h2>GALSTON MAJOR DRAINAGE UPGRADE</h2> <h3>GLEN ST, THE KNOLL, GARDINER RD & THE GLADE, GALSTON</h3> <h3>STAGING PLAN</h3>		<p>Project Number ...</p> <p>Sheet 3 of 20</p> <p>Issue A</p> <p>HSC Drawing Number</p>	
<p>Authorised for release - Manager Infrastructure Planning</p> <p>Name: D. CARPENTER Signed: Date:</p>		<p>TRIM Document Number</p> <p>1</p>		<p>ISSUED FOR INFORMATION</p> <p>M. DRAKE</p>		<p>Design not to be amended without authorisation by Manager Design & Construction</p>		<p>DO NOT SCALE, USE FIGURED DIMENSIONS ONLY</p>		<p>Project Number ...</p> <p>Sheet 3 of 20</p> <p>Issue A</p> <p>HSC Drawing Number</p>	



Hornsby Shire Council Infrastructure Planning - Survey & Design Branch <small>TELEPHONE: (02) 9847 6666 EMAIL: hsc@hornsby.nsw.gov.au</small>		Designer D. TAMANG Signed: _____ Drawn D. TAMANG Signed: _____ Surveyor HAMMOND SMEALLIE Project Identifier\\CAD File Name H:\Galston Major Drainage Upgrade_DR_XXXXXX\Design\CAD\Galston Drainage.dwg		Design Checked-Design Team Leader Signed: _____ Drawing Checked Signed: _____ NA Field Book NA Level Book GDA 94 Datum		1 ISSUED FOR INFORMATION M. DRAKE Initial Date		Bar Scales 0 5 10 15 20 25m SCALE 1:500 @ A1 DO NOT SCALE, USE FIGURED DIMENSIONS ONLY		DRAFT not for construction HORNSBY SHIRE COUNCIL PO BOX 37, HORNSBY NSW 1630 DX 9655 HORNSBY		GALSTON MAJOR DRAINAGE UPGRADE GLEN ST, THE KNOLL, GARDINER RD & THE GLADE, GALSTON OVERALL LAYOUT PLAN		Project Number ... Sheet of 4 20 Issue A HSC Drawing Number -	
Authorised for release - Manager Infrastructure Planning Name: D. CARPENTER Signed: _____ Date: _____		TRIM Document Number -		Design not to be amended without authorisation by Manager Design & Construction											



Hornsby Shire Council Infrastructure Planning - Survey & Design Branch <small>TELEPHONE: (02) 9847 6666 EMAIL: hsc@hornsby.nsw.gov.au</small>	Designer D. TAMANG	Design Checked-Design Team Leader				Bar Scales		GALSTON MAJOR DRAINAGE UPGRADE GLEN ST, THE KNOLL, GARDINER RD & THE GLADE, GALSTON GENERAL WORKS & SERVICES PLAN SHEET 1 OF 7	Project Number ...			
	Drawn D. TAMANG	Signed:				0 1 2 3 4 5m			Sheet 5	of 20	Issue A	
	Surveyor HAMMOND SMEALLIE	NA	NA	GDA 94			SCALE 1:100 @ A1		HSC Drawing Number -			
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Authorised for release - Manager Infrastructure Planning Name: D. CARPENTER Signed: Date:	TRIM Document Number	1		ISSUED FOR INFORMATION		M. DRAKE						
		Issue		Description		Name		Initial		Date		
				Design not to be amended without authorisation by Manager Design & Construction								
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CAUTION !
EXISTING OVERHEAD
ELECTRICAL CABLES
CONFIRM LOCATION

REINSTATE KERB & GUTTER & ROAD AT
COMPLETION OF DRAINAGE WORKS TO
MATCH EXISTING. (TYP)

REINSTATE FENCE ON COMPLETION OF
DRAINAGE WORKS TO MATCH EXISTING

PROPOSED MITRE BEND No. .
REFER TO SHEET No. FOR
DETAIL.

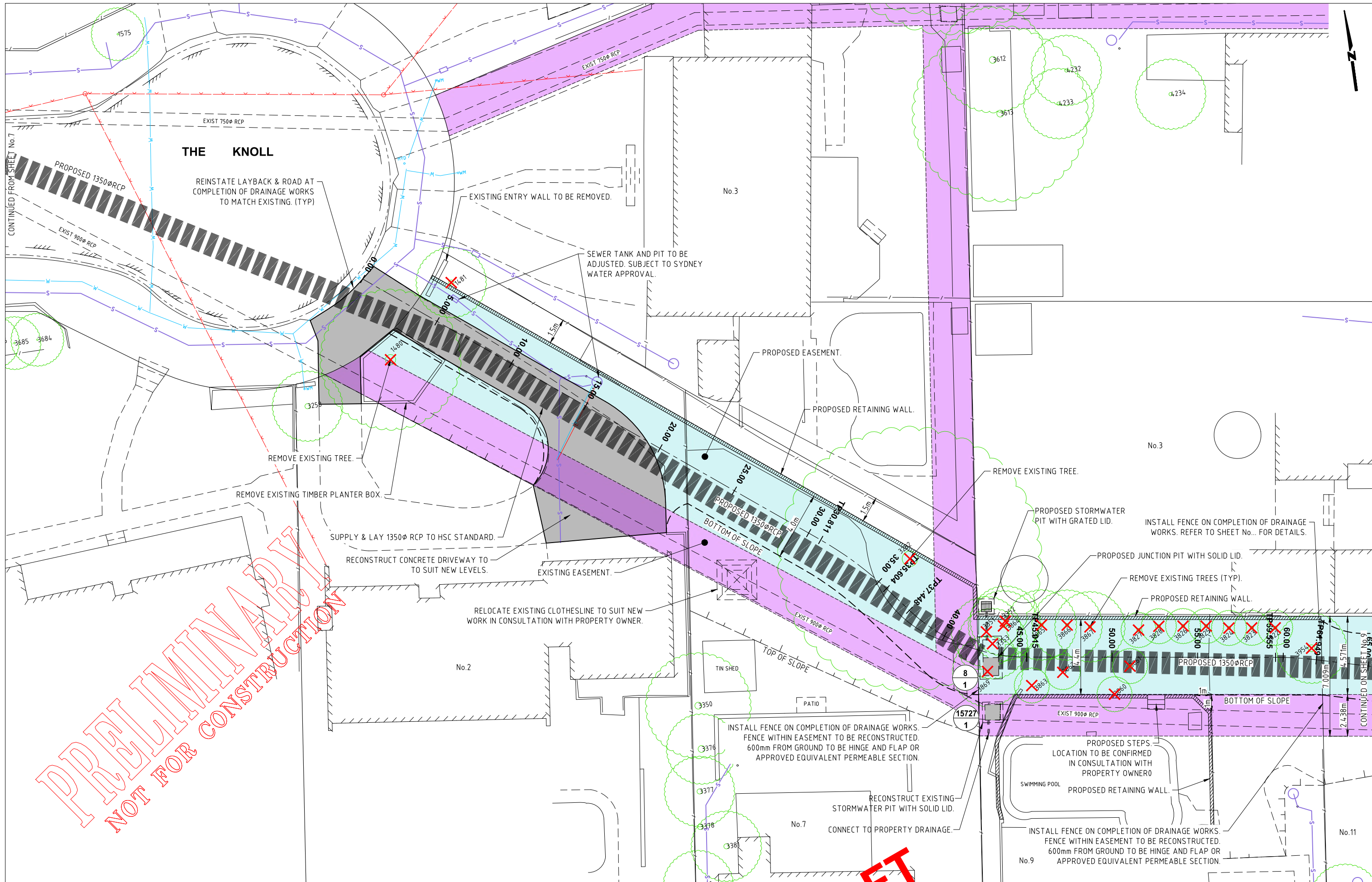
REINSTATE FENCE ON COMPLETION OF
DRAINAGE WORKS TO MATCH EXISTING

SUPPLY & LAY 2700x900 RCBC
WITH BASE SLAB

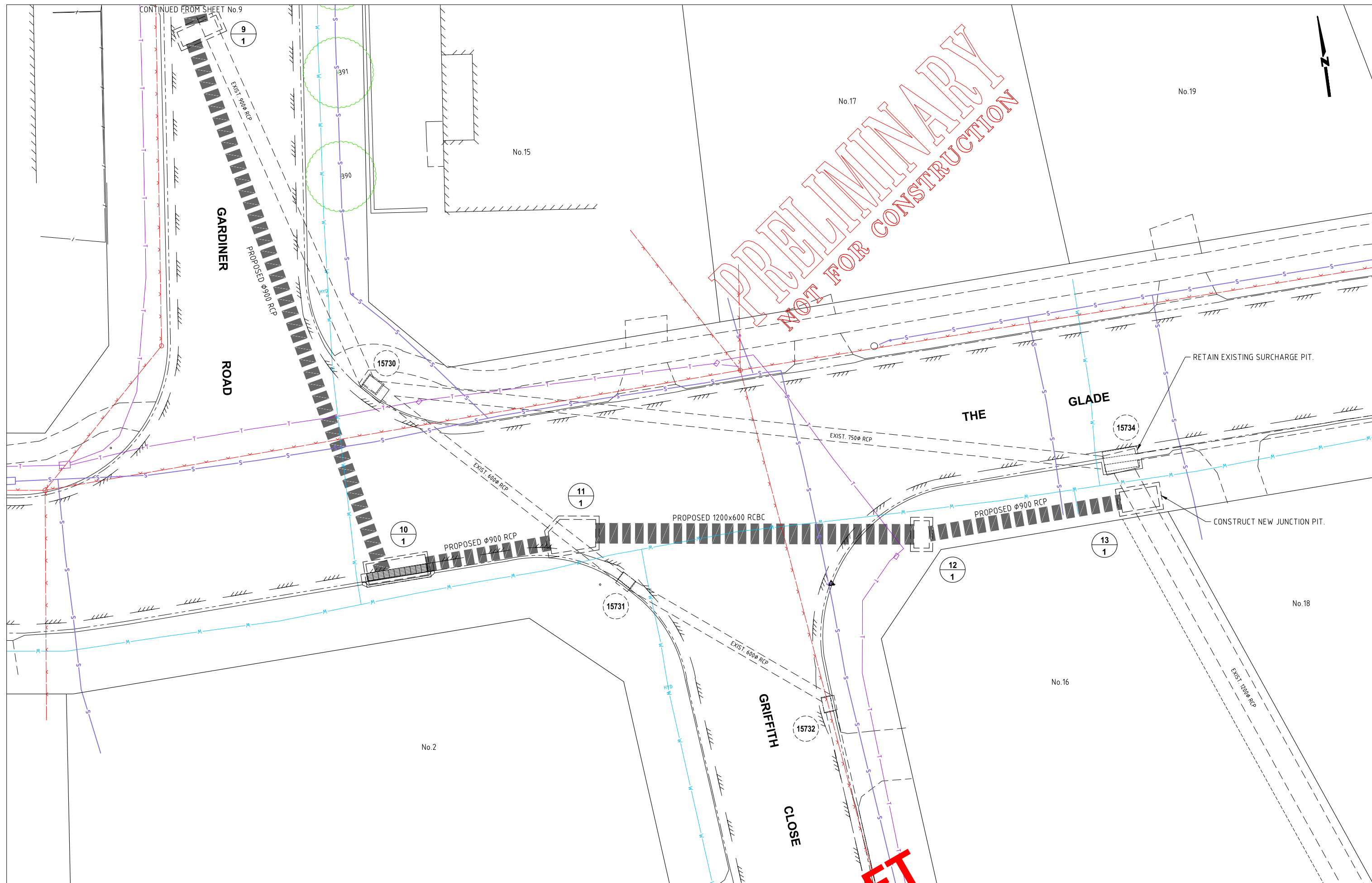
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WITH BASE SLAB.

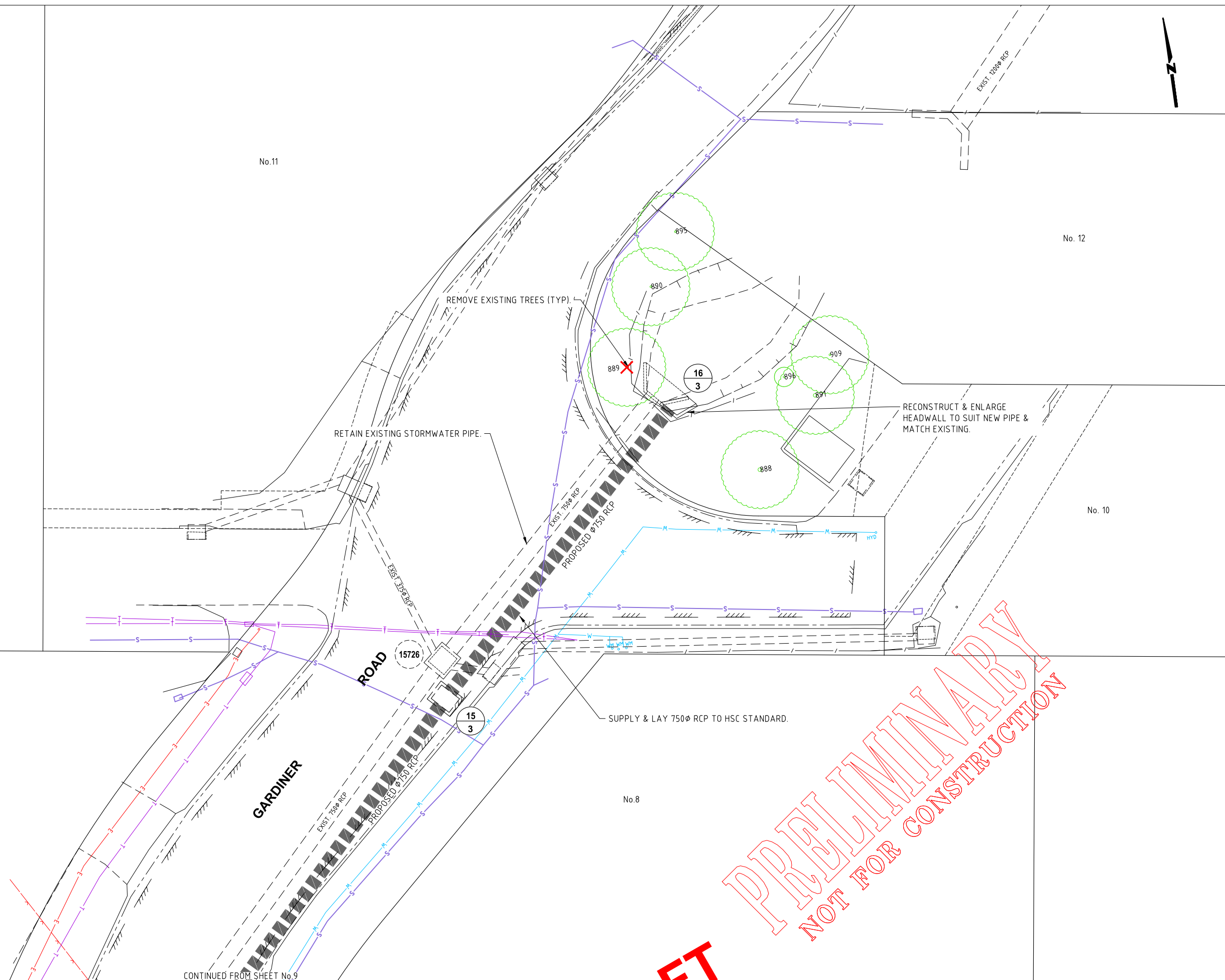
SUPPLY & LAY 1350Ø RCP TO HSC STANDARD



Hornsby Shire Council Infrastructure Planning	Designer: D.TAMANG		Design Checked-Design Team Leader Signed:							Bar Scales SCALE 1:M @ A1	 DRAFT - Not for construction HORNSBY SHIRE COUNCIL PO BOX 37, HORNSBY NSW 1630 DX 9655 HORNSBY	GALSTON MAJOR DRAINAGE UPGRADE GLEN ST, THE KNOLL, GARDINER RD & THE GLADE, GALSTON			Project Number ...	
	Drawn D.TAMANG		Drawing Checked Signed:											Sheet 7	of 20	Issue A
	Surveyor HAMMOND SMEALLIE		NA Field Book	NA Level Book	GDA 94 Datum											
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Design not to be amended without authorisation by Manager Design & Construction										DO NOT SCALE, USE FIGURED DIMENSIONS ONLY		GENERAL WORKS & SERVICES PLAN SHEET 3 OF 7				



Hornsby Shire Council Infrastructure Planning - Survey & Design Branch TELEPHONE: (02) 9847 6666 EMAIL: hsc@hornsby.nsw.gov.au Authorised for release - Manager Infrastructure Planning Name: D. CARPENTER Signed: Date:	Designer D. TAMANG Drawn D. TAMANG Surveyor HAMMOND SMEALLIE Project Identifier\VCAD File Name H:\Galston Major Drainage Upgrade_DR_XXXXXX\Design\VCAD\Galston Drainage.dwg TRIM Document Number -	Design Checked-Design Team Leader Signed: Drawing Checked Signed: NA NA GDA 94 Datum Field Book Level Book 1 ISSUED FOR INFORMATION M. DRAKE Name Initial Date Design not to be amended without authorisation by Manager Design & Construction	Bar Scales 0 1 2 3 4 5m SCALE 1:100 @ A1 DO NOT SCALE, USE FIGURED DIMENSIONS ONLY	DRAFT not for construction HORNSBY SHIRE COUNCIL PO BOX 37, HORNSBY NSW 1630 DX 9655 HORNSBY	GALSTON MAJOR DRAINAGE UPGRADE GLEN ST, THE KNOLL, GARDINER RD & THE GLADE, GALSTON GENERAL WORKS & SERVICES PLAN SHEET 4 OF 7	Project Number ... Sheet of 8 20 Issue A HSC Drawing Number -
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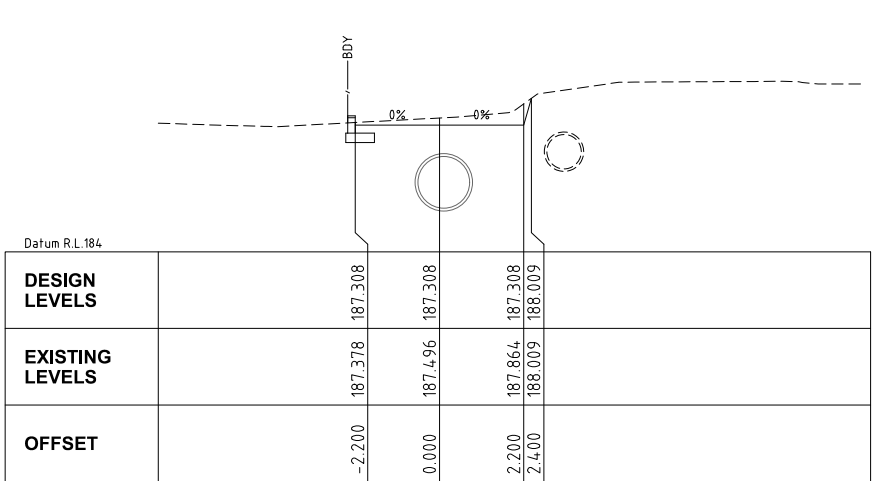
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	Authorised for release - Manager Infrastructure Planning Name: D. CARPENTER Signed: _____ Date: _____	TRIM Document Number Issue Description Name Initial Date						


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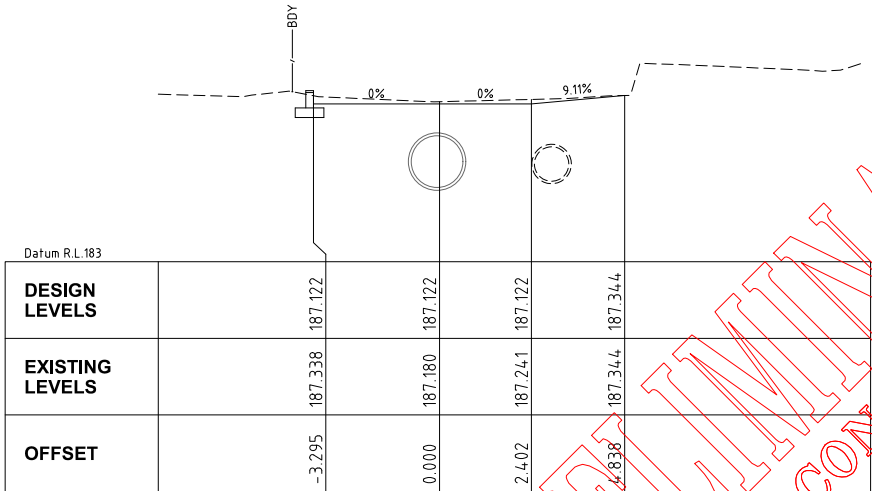


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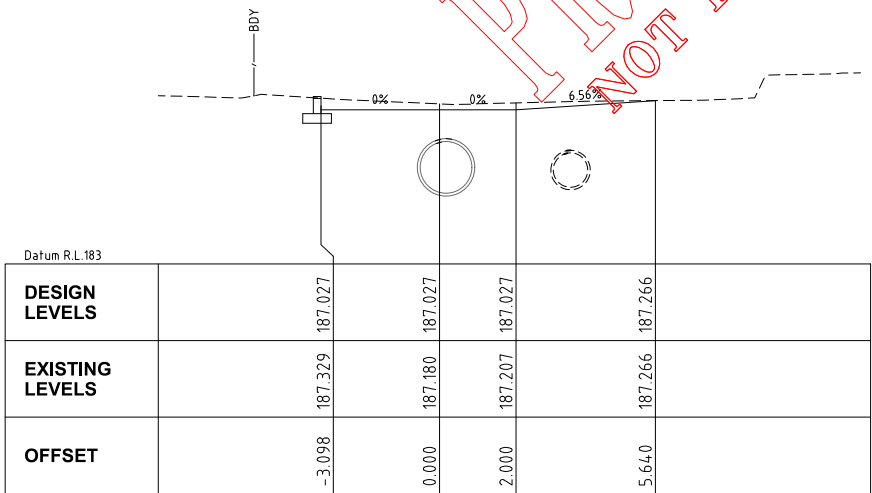
5%AEP PIPE FLOW										
PIPE/CULVERT SIZE (mm) TYPE & CLASS	1350 RRJ CLASS 2		900 RRJ CLASS 2		1200x600 RCBC		900 RRJ CLASS 2			
GRADE (%)	-4.23%		-2.12%		-2.14%		-1.44%		-3.18%	
DATUM RL	171.000									
HGL (5% AEP)										
DEPTH TO INVERT	2.198 2.168		2.189 2.089	2.109 2.079		2.062 2.032		1.799 1.699	1.706 1.571	2.223 2.223
SURFACE LEVEL	187.218 (187.390)		189.089	189.309		190.032		189.999	190.571	191.523
INVERT LEVEL	185.020 185.050		186.900 187.000	187.200 187.230		187.970 188.000		188.200 188.300	188.865 189.000	189.300 189.300
PIPE CHAINAGE	277.381		321.113	330.562		365.100		378.987	396.793	408.521
	43.732m		9.449m		34.538m		13.887m		17.806m	
									11.728m	



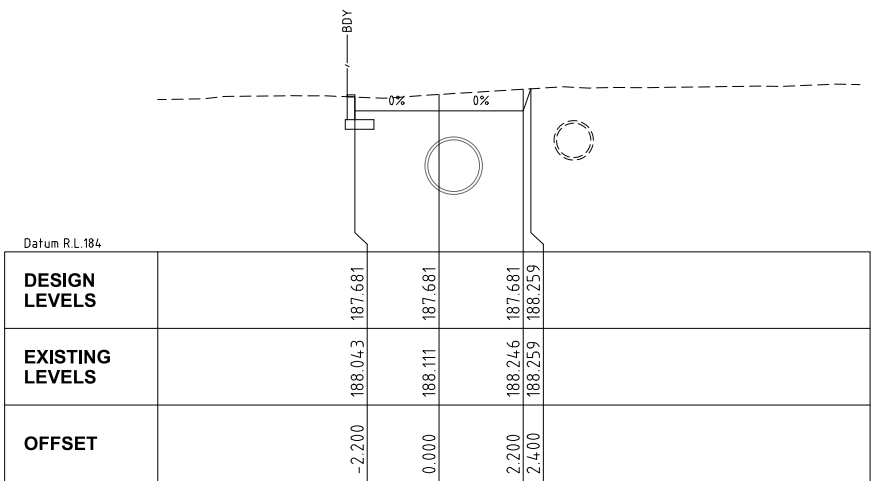
CH 45.000



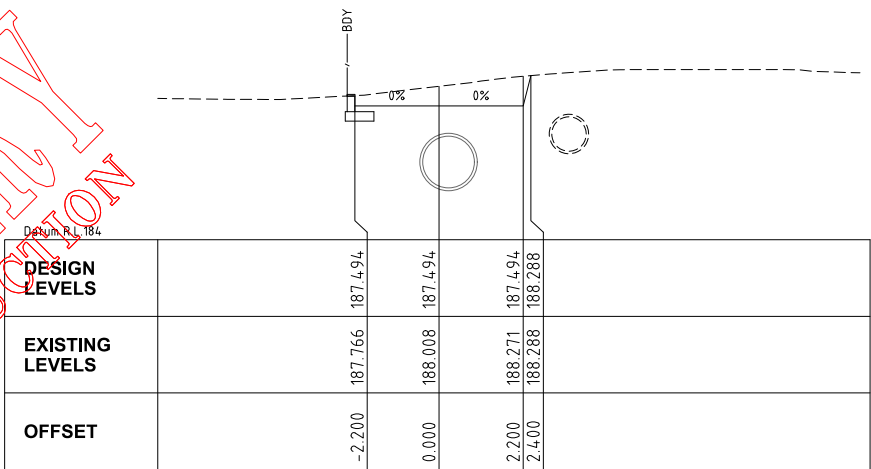
CH 40.000



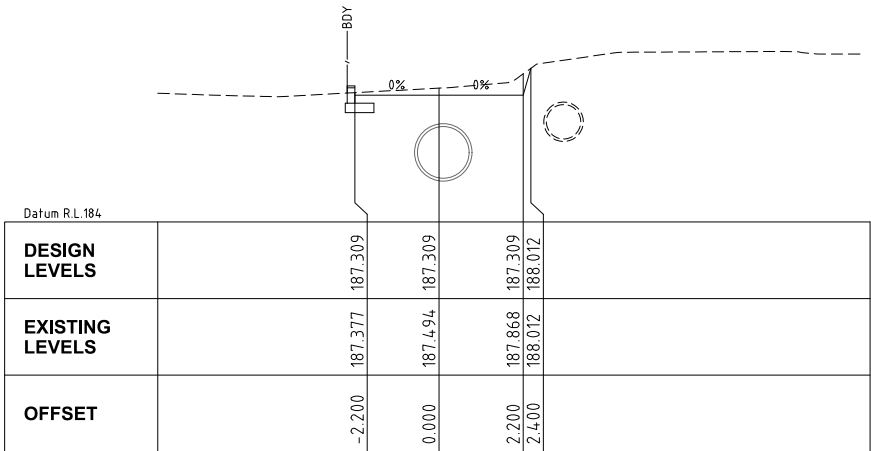
CH 37.448



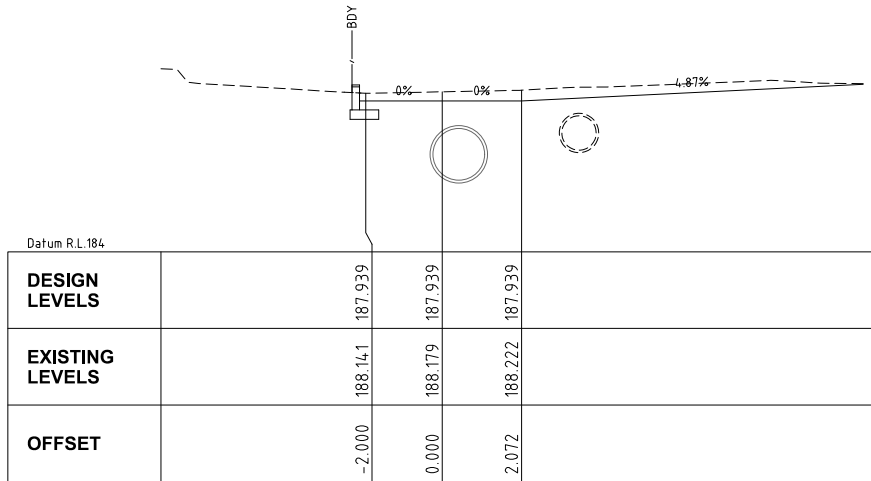
CH 55.000



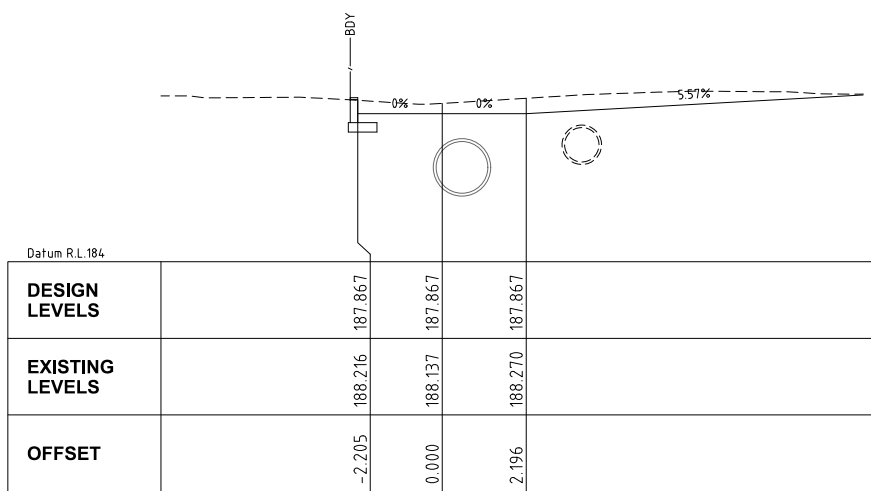
CH 50.000



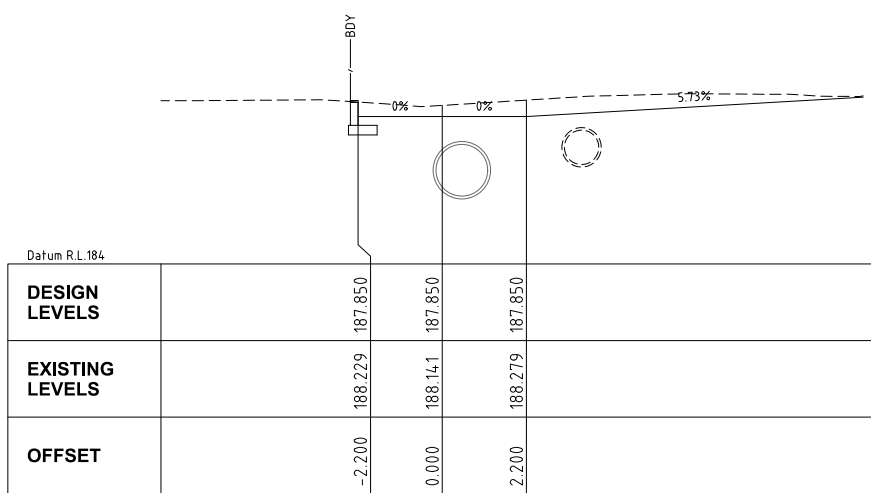
CH 45.015



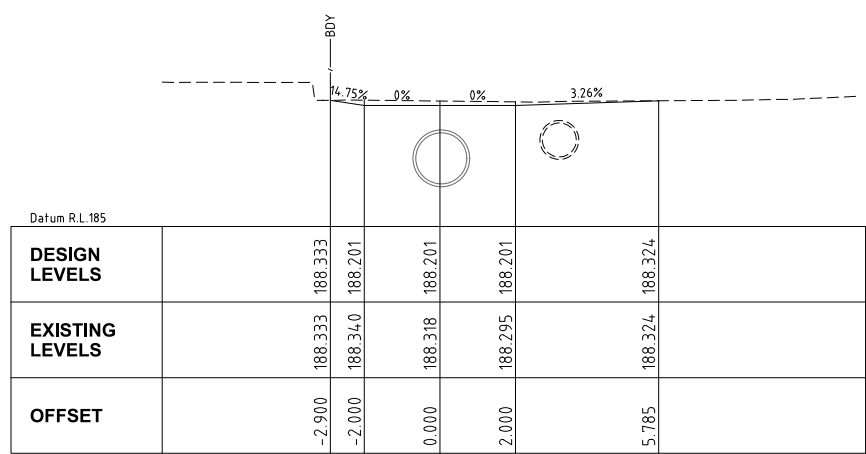
CH 61.949



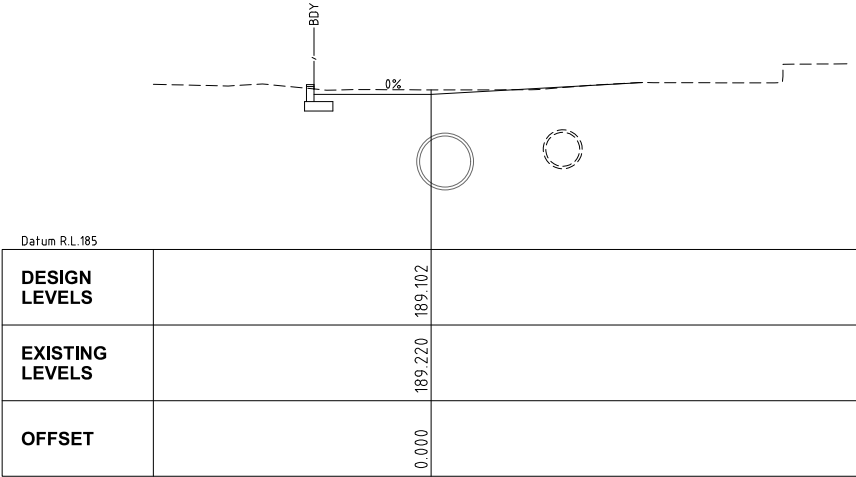
CH 60.000



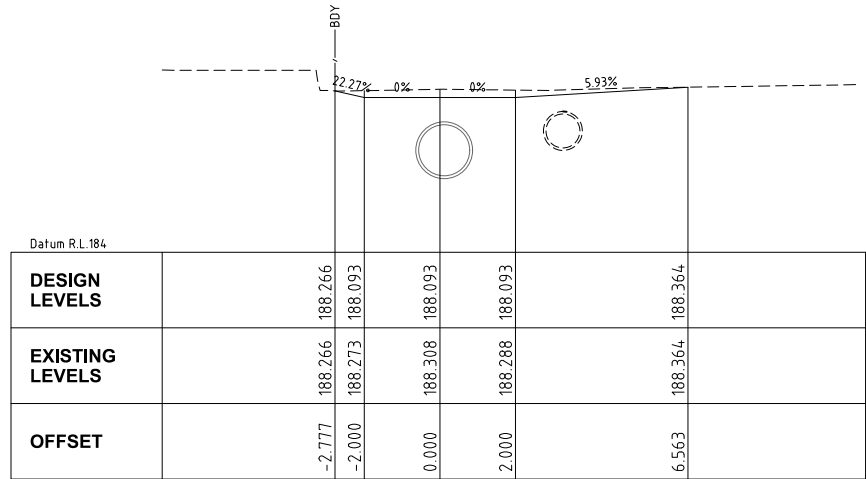
CH 59.555



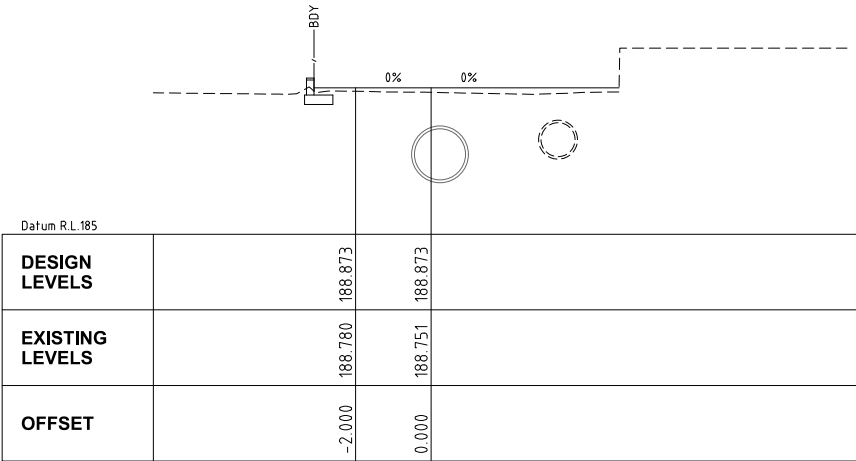
CH 67.809



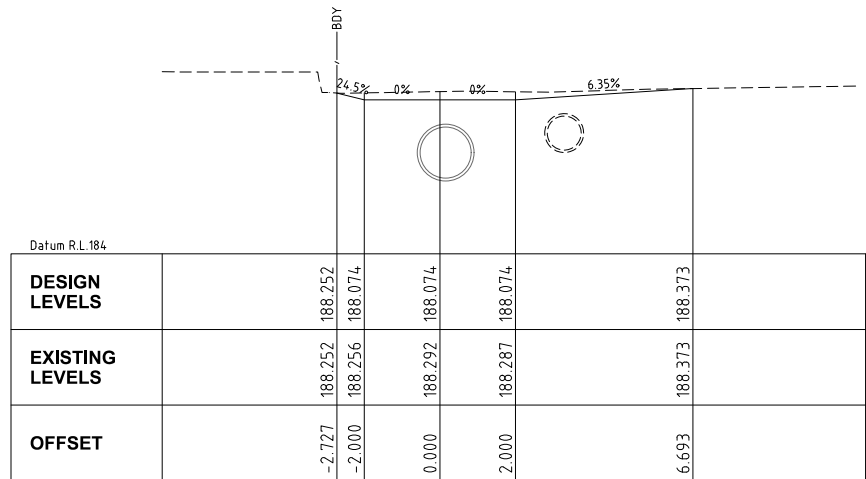
CH 80.000



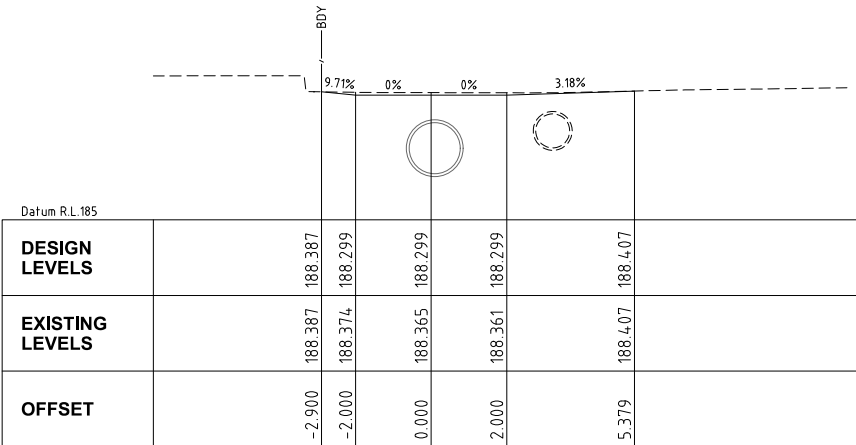
CH 65.416



CH 75.000



CH 65.000



CH 70.000

PRELIMINARY
NOT FOR CONSTRUCTION