

Case Number: 134916

31 July 2015

Rose Atkins Rimmer

Dear Sir/Madam

Property: 145 Old Pittwater Road, Brookvale

Your Reference: 46/23141 Plan Identification Number: 134916WW

Attached is the Waste Water Design Package for the location of works shown above. This package was received by Sydney Water and dated 15 July 2015/Version No. 12. **You have indicated that this plan is for tendering purposes.** After you have engaged a Constructor and the following matters have been addressed, this plan can be used for construction. If there are any changes after tendering, you must give us the appropriate Project Variation documents.

With respect to proposed Line 3, you will need to determine whether:

- 1. The DN1200 main is to be removed and the proposed DN300 is laid in its place. (easement extinguished/encumbrance removed). This is Sydney Water's preference.
- 2. Line 3 is removed from the design, the section of DN1200 is transferred (via deed of disuse and transfer) and connection is made to the chamber at 'A'.
- 3. The main is laid within the existing DN1200 main and the existing easement above that section will remain. (easement /encumbrance remains on the property)

After you tell us who the approved Constructor is, lodge both the completed ITP and executed Deed Poll with Sydney Water, we will review them and then release your ITP. This will complete your Design Package and enable you to start construction.

For that package, the following is to be addressed;

(a) The following costs will be invoiced to your Company at the finalisation of these works:

Contract Administration

This fee will be invoiced to your company at the current hourly rate of \$139.05 (includes \$12.64 GST). It is for time spent by the Development Services Officer during the design, construction and connection phases of this work.

Notes:

• An invoice can be issued for the above costs before finalisation. However, if costs are incurred after that invoice we will charge you at finalisation.

2 of 4 Case No: 134916

- To obtain an invoice before finalisation, you must email the Sydney Water Case Manager.
- The Tax Invoice must be paid to Sydney Water within 30 days of being issued.
- You should tell your developer/applicant client of these Sydney Water costs before proceeding with this work.
- (b) If Sydney Water needs additional site inspections, you will be invoiced at the current hourly rate at the completion of this work.
- (c) At the finalisation of these works, and before we can issue the Section 73 Compliance Certificate or the release of the Security Bond, the Developer will need to pay any outstanding Developer (DSP) or Recovery charges directly to Sydney Water. Remember that you need to obtain an invoice so these charges can be paid. The invoice can be obtained by contacting the Sydney Water Case Manager.

Connections

While connections to existing Sydney Water assets are generally at the end of construction, the constructor, in conjunction with the WSC, must review the design prior to commencement of works and identify all connections to Sydney Water's existing assets. All connections at any stage of construction must only proceed after obtaining the appropriate approval from Sydney Water.

(d) Before connection, the Generic Asset Hazards (detailed in Instructions to Water Servicing Coordinators (Major Works)) **must** be addressed in your Safe Work Plan and Environmental Management Plan.

The Generic Asset Hazards/Conditions - At the Point of Connection, listed in the Provider Instructions, **must** be addressed in your Safe Work Plan and Environmental Management Plan.

Notes:

Remember that:

- 1. There are work environment hazards that include (but are not limited to) traffic and the closeness of other utility services;
- 2. All developers, constructors and individuals have an OH&S obligation and a duty of care when working near underground plant; and
- 3. Any person who destroys, damages or interferes with any Sydney Water asset is liable to compensate Sydney Water.
- (e) Extra hold points might be included in the ITP by Sydney Water when you lodge the Construction Commencement Notice.
- (f) The new works will be connecting to a main that is deemed critical to the system and so you need to implement Sydney Water's Health and Safety Procedure Flow Management and Isolation of Hydraulic Assets (HSP-070) and submit, via email, a Flow Management Plan addressing any specific requirements provided by Sydney Water.
 - At the last meeting, held Sydney Water asked about the duration of the steps. This

is important because at the MHs at either end of the new 1200, there are 750mm inserts during construction.

 If we are likely to have wet weather during the sequence construction step, then the 750mm sections will not cope and we a re likely to have overflows in the system and possibly at the site. If the construction duration is long and wet weather cannot be avoided, then a contingency such as pumping needs to be considered.

Submit your Wastewater Form 'A' FIFM requests via email address: wastewaterfifm@sydneywater.com.au

All Wastewater FIFM requests, enquiries, issues and correspondence are also to be submitted via the above email address.

Connection to Sydney Water's asset cannot be carried out prior to submission of a valid Inspection and Test Plan (ITP) and implementation of an approved Flow Management Plan.

(g) Adjustment/Deviation Construction Works on a Live Main

Because this work involves construction on a "live" Sydney Water sewer main, the Developer must:

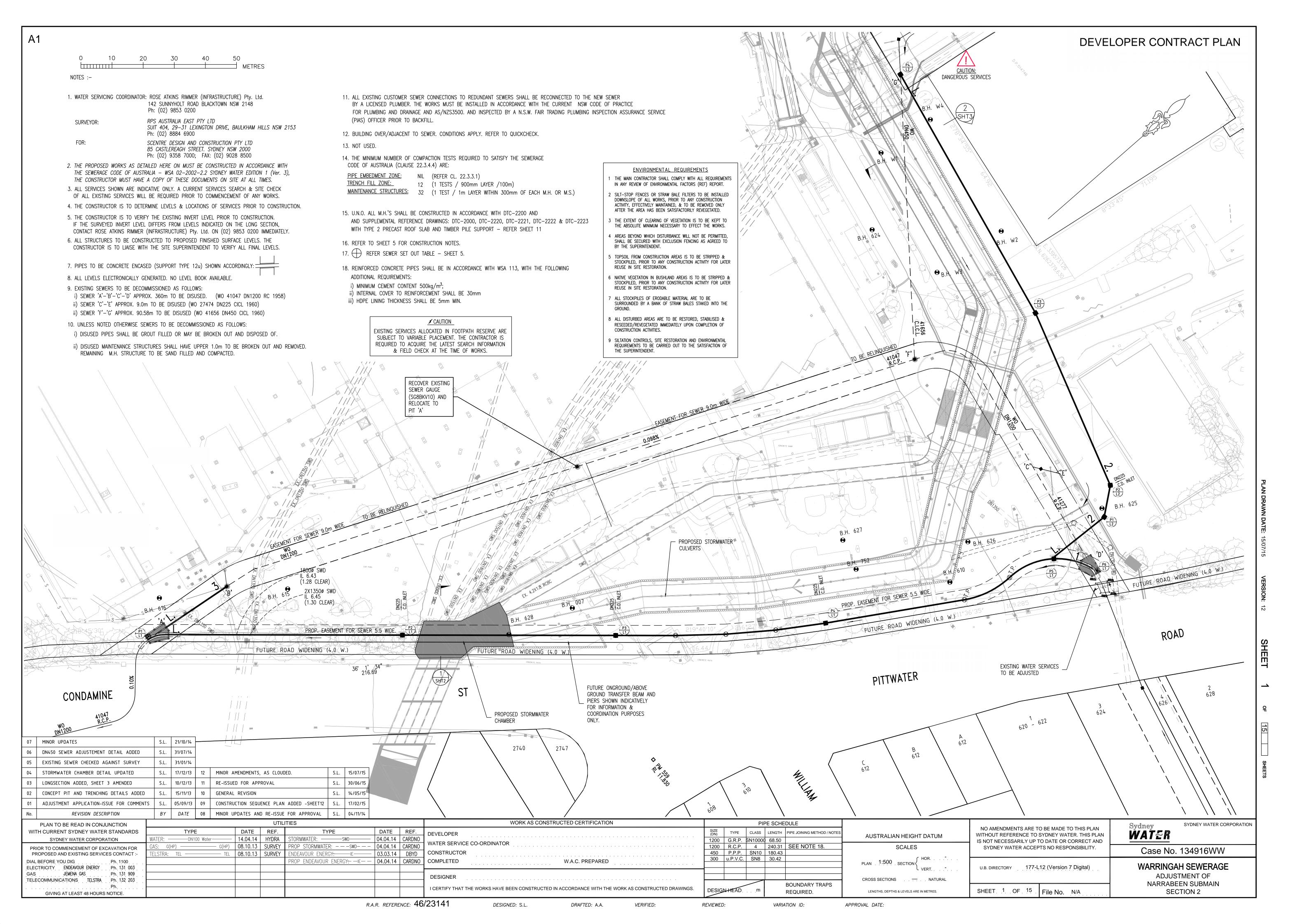
- lodge either a cash or unconditional bank guarantee security bond from an acceptable financial institution; and
- signify their acceptance of bonding conditions that we will provide in another agreement.
- Have your temporary pipework (if required) constructed by a listed provider
- Submit the Construction Commencement Notice for construction of the temporary pipework

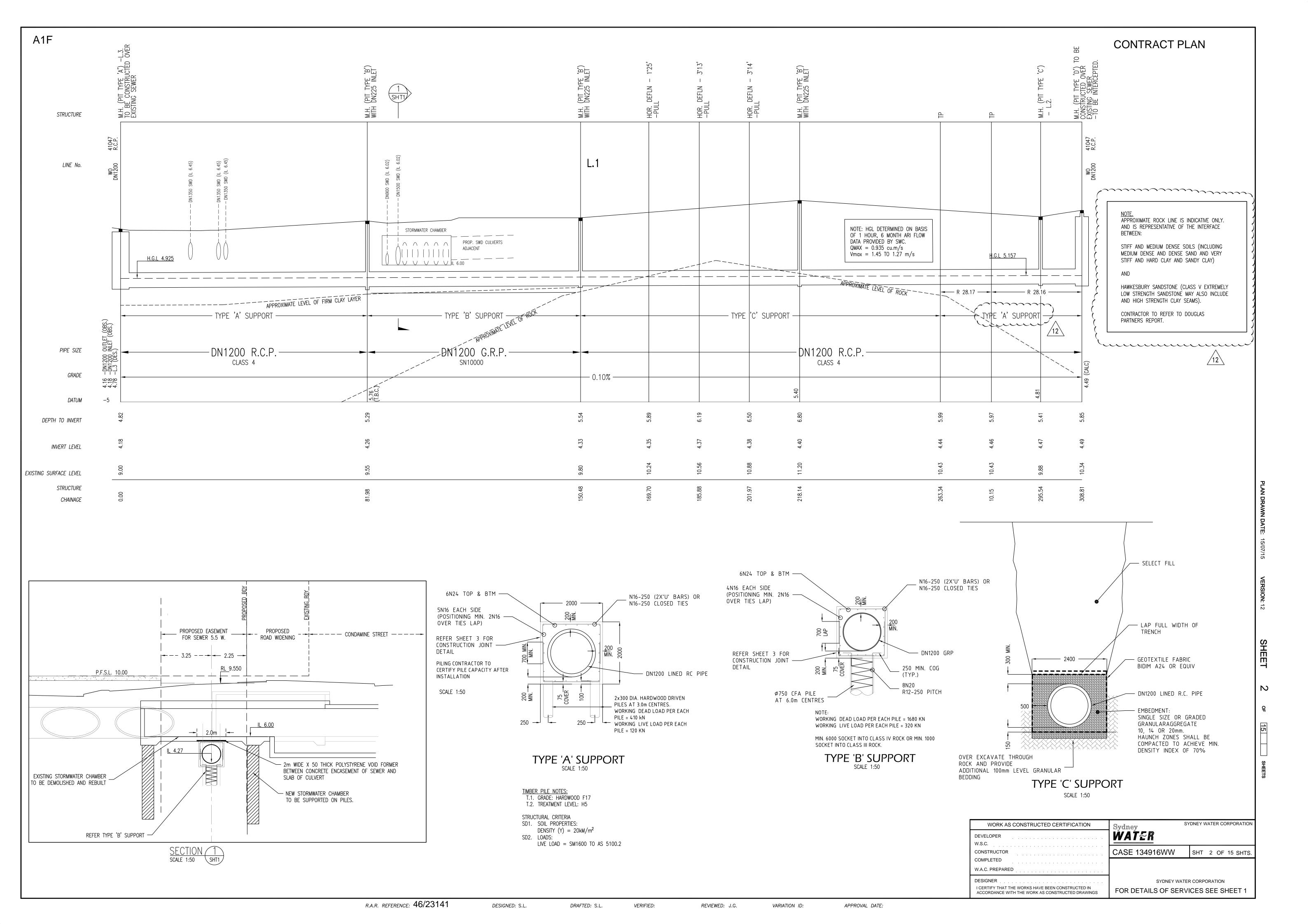
The bond and signed agreement must be given to and executed by Sydney Water before you start constructing the work.

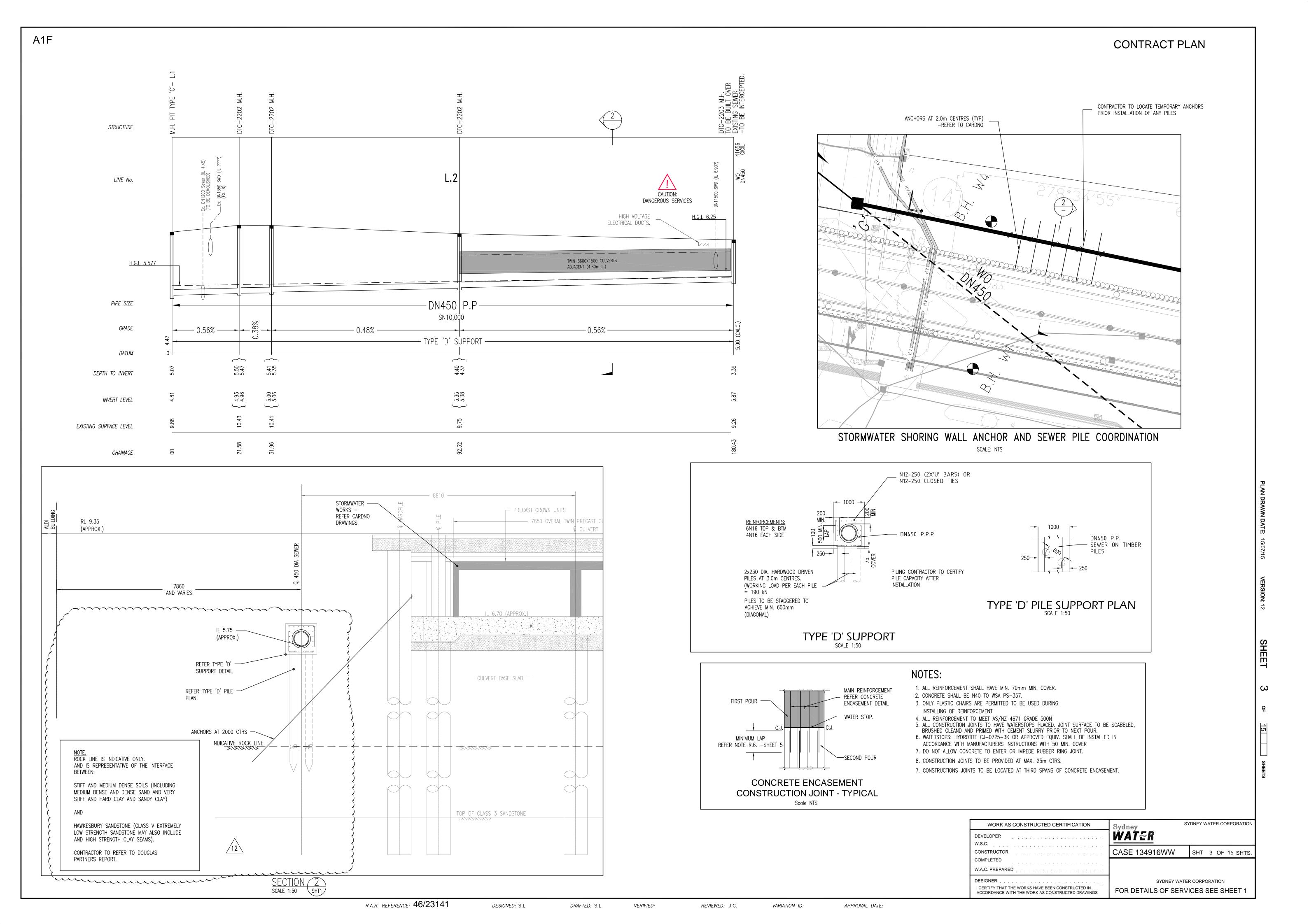
The bond will be released after you have completed the construction of the works. (This includes lodgement of Work As Constructed plans and production and/or recreation of documentation and reports needed for the total project.)

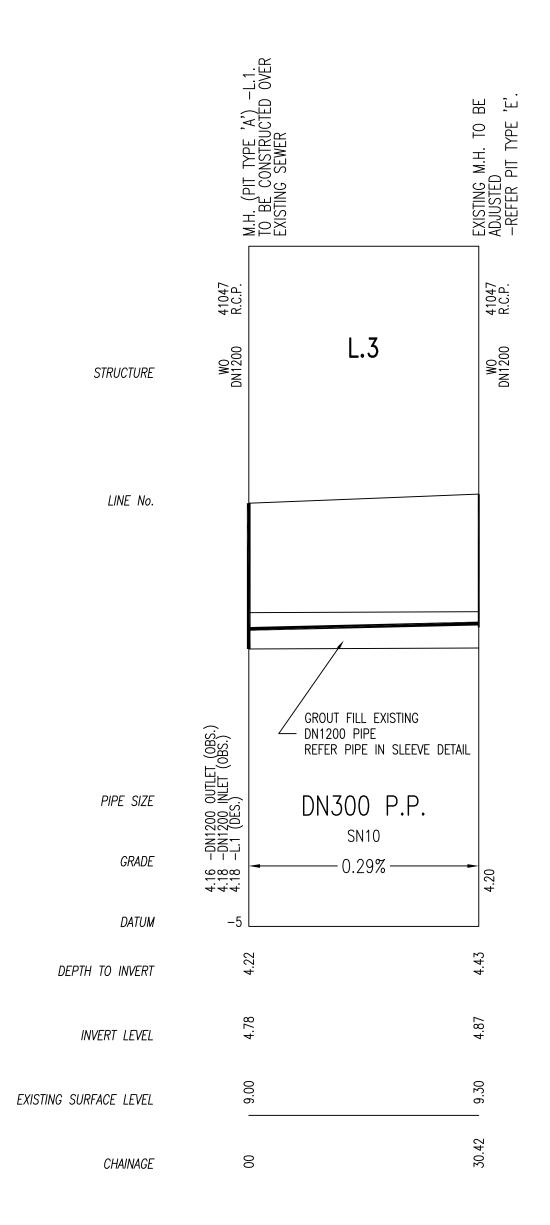
Construction Commencement Sydney Water Contact

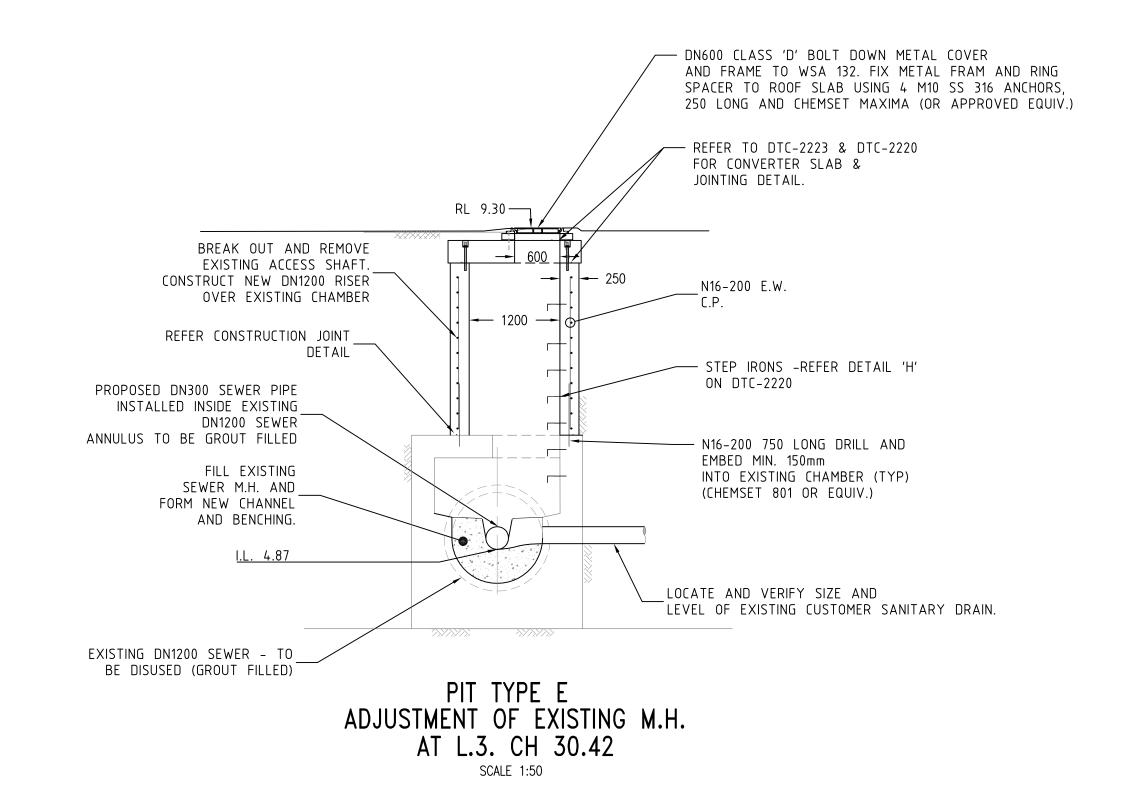
You must send your Construction Commencement Notice to Sydney Water's Developer Works Inspections team at Email: DeveloperConnectionsdwi@sydneywater.com.au as set down in the Instructions to Water Servicing Coordinators (Major Works).

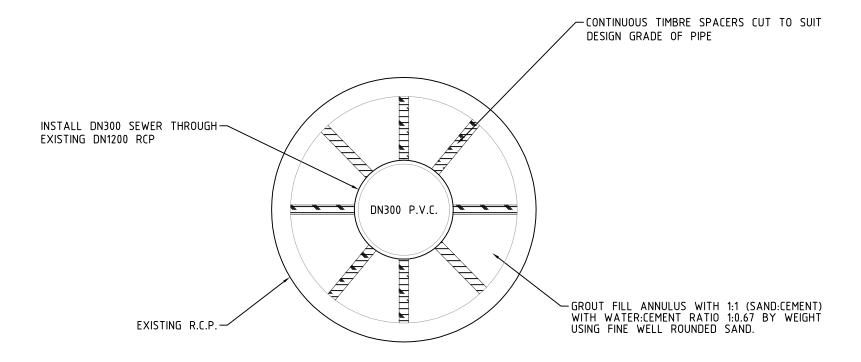












PIPE IN SLEEVE DETAIL
SCALE: NTS

WORK AS CONSTRUCTED CERTIFICATION	Sydney	ONEY WATER CORPORATION
DEVELOPER	<u>WATER</u>	
CONSTRUCTOR	CASE 134916WW	SHT 4 OF 15 SHTS.
W.A.C. PREPARED		
DESIGNER I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	

R.A.R. REFERENCE: 46/23141 DESIGNED: S.L. DRAFTED: S.L. VERIFIED: REVIEWED: J.G. VARIATION ID: APPROVAL DATE:

G2. THE CONTRACTOR SHALL CHECK AND BE RESPONSIBLE FOR THE CORRECTNESS OF ALL DIMENSIONS AND ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM THE DRAWINGS.

G3. STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND EXCAVATION IN THE VICINITY OF ADJACENT STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO PART OF THE STRUCTURE SHALL BE OVER STRESSED. APPROVAL OF ALL PROPOSALS MUST BE GRANTED BY THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF WORK.

G4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FORTY EIGHT (48) HOURS BEFORE THE REINFORCEMENT IS COMPLETED. THE CONTRACTOR SHALL ALLOW TWO (2) HOURS AFTER THE COMPLETION OF THE REINFORCEMENT FOR THE ENGINEER'S INSPECTION. CONCRETE SHALL NOT BE ORDERED UNTIL THE REINFORCEMENT IS APPROVED BY THE ENGINEER.

G5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT SAA CODES, THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY AND THE SPECIFICATION.

NO CHANGES SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

U.N.O. DENOTES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

G8. AT THE COMPLETION OF WORKS, ALL DISTURBED AREAS INCLUDING ROAD PAVEMENTS, KERBS AND FOOTPATHS SHALL BE REINSTATED TO MATCH EXISTING ADJACENT MATERIAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL SERVICES TO BE RELOCATED. ADJUSTED OR PROTECTED.

G8. DESIGN LOADS:

LIVE LOAD = SM1600 LOAD TO AS5100.2SURCHARGE AROUND STRUCTURES = 20kPa UPLIFT FROM GROUND WATER = 40kPa

FORMWORK

FW1. FORMWORK AND CONCRETE FINISHES SHALL COMPLY WITH AS3610 SAA FORMWORK CODE. SURFACES EXPOSED TO VIEW TO - CLASS 2;

SURFACES NOT EXPOSED TO VIEW - CLASS 4 FW2. CONCRETE SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPA PRIOR TO STRIPPING OF FORMWORK

CONCRETE NOTES

C1. CONCRETE DIMENSIONS SHOWN DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

CS. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 75mm AT INTERNAL FACE AND 55mm COVER AT EXTERNAL FACE UNO.

C3. CONCRETE SHALL BE SPECIAL CLASS SCC40 TO WSA 114-2002 EXCEPT AS VARIED BELOW.

SECTION 4 - MIX DESIGN

MINIMUM F'c AT 28 DAYS 40MPa 450kg/m³ MINIMUM BINDER CONTENT 600×10^{-6} MAXIMUM 56 DAY DRYING SHRINKAGE STRAIN 0.45 MAXIMUM WATER:CEMENT RATIO 80-120mm

SECTION 6 - SUPPLEMENTARY CEMENTITIOUS MATERIALS

THE TOTAL AMOUNT OF SUPPLEMENTARY CEMENTITIOUS MATERIALS SHALL NOT BE MORE THEN 60% BY WEIGHT OF THE TOTAL CEMENT MATERIAL.

SECTION 6.2 - FLYASH

THE MAXIMUM AMOUNT OF SLAG FLYASH SHALL BE 25% BY WEIGHT OF THE TOTAL CEMENT MATERIAL.

SECTION 6.3 - SLAG

THE MAXIMUM AMOUNT OF SLAG SHALL BE 50% BY WEIGHT OF THE TOTAL CEMENT MATERIAL

SECTION 6.5 - AGGREGATES.

THE MAXIMUM NOMINAL SIZE OF AGGREGATE SHALL BE 20mm. RECYCLED MATERIAL OR SLAG PRODUCTS SHALL NOT BE USED AS AGGREGATES.

<u>SECTION 6.7 – CHEMICAL ADMIXTURES.</u>

WHERE TWO OR MORE ADMIXTURES ARE PROPOSED FOR INCORPORATION INTO A CONCRETE MIX THE MANUFACTURES SHALL CERTIFY THE COMPATIBILITY OF THE ADMIXTURES.

C4. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. THE VIBRATOR SHALL NOT BE USED TO SPREAD CONCRETE.

C5. CURING OF ALL CONCRETE TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS. POLYETHYLENE SHEETING OR WET HESSIAN MAY BE USED. POLYETHYLENE AND HESSIAN TO BE ADEQUATELY SECURED TO RESIST WIND AND TRAFFIC FORCES. ALTERNATIVE CURING MAY BE ACHIEVED BY APPLYING SIKA ANTISOL WB CURING COMPOUND OR APPROVED EQUIVALENT TO ALL SURFACES IN ACCORDANCE WITH THE MANUFACTURES REQUIREMENTS FOR A PERIOD OF 14 DAYS.

C6. CONCRETE SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa PRIOR TO BACKFILLING AND TESTING OF STRUCTURES. BACKFILL SHALL BE PLACED AND COMPACTED EVENLY AROUND MAINTENANCE HOLES IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS.

REINFORCEMENT NOTES

R1. STEEL REINFORCING MATERIALS SHALL BE TO AS/NZS4671.

SHAPE — D STRENGTH GRADE = 500MPa DUCTILITY CLASS - N

R2. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY: IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.

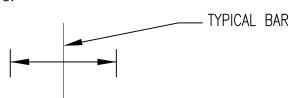
R3. DESIGNATION OF REINFORCEMENT BARS AS IN EXAMPLE:

BAR GRADE AND TYPE No. OF BARS IN A GROUP — 17 N20 - 350 EF LOCATION OR COMMENT NOMINAL BAR SIZE IN mm SPACING IN mm

R4. THE FOLLOWING ABBREVIATIONS APPLY TO THE LOCATION OF REINFORCEMENT:

EW EACH WAY FAR FACE CP CENTRALLY PLACED BB BOTTOM BOTTOM (LAID FIRST) EF EACH FACE BOTTOM NEAR FACE TOP TT TOP TOP (LAID LAST)

R5. EXTENT OF BARS SHOWN THUS:



R6. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN ON DRAWINGS. LAP LENGTHS TO COMPLY WITH THE FOLLOWING UNLESS NOTED OTHERWISE.

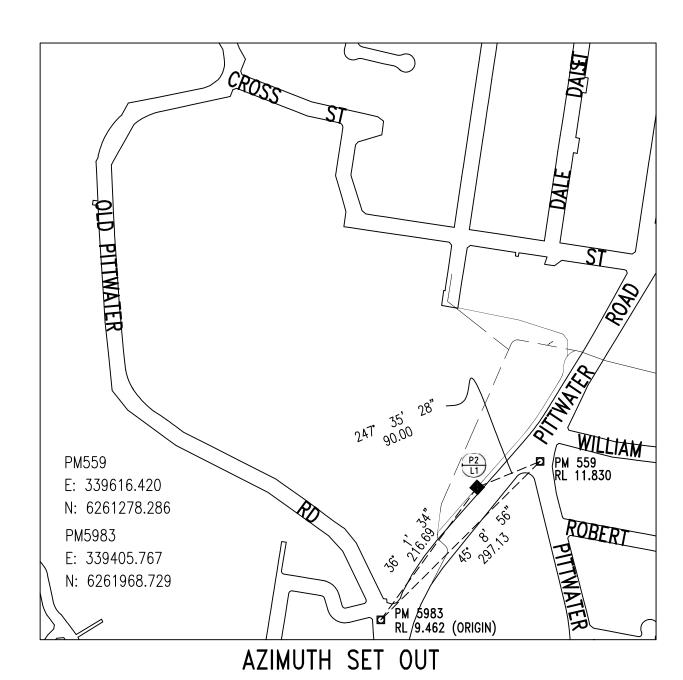
BAR TYPE AND SIZE	VERTICAL BARS	HORIZONTAL BARS WITH MORE THAN 300mm OF CONCRETE BELOW BAR	OTHER LOCATIONS	90° COG LENGTH
N12	500	550	500	200
N16	700	800	700	200
N20	1000	1250	1000	250
N24	1200	1500	1200	300
N28	1400	1750	1400	350
N32	1600	1900	1600	400
N36	1700	2200	1700	450

R7. REINFORCEMENT SHALL BE SUPPORTED ON APPROVED PLASTIC OR PLASTIC TIPPED WIRE STOOLS AT NOT MORE THAN 600MM CENTRE BOTHWAYS IN SLABS AND AT 1000MM CENTRES IN BEAMS.

WELDING OF REINFORCEMENT IS NOT PERMITTED.

R8. EXPOSURE CLASS B2 FOR EXTERNAL CONCRETE FACE; EXPOSURE CLASS D FOR INTERNAL CONCRETE FACE.

MINIMUM COVER TO BE 55mm FOR CLASS B2 EXPOSURE; MINIMUM COVER TO BE 75mm FOR CLASS D EXPOSURE.



	SEWER SET C	OUT TABLE			
	MGA ZOI	NE 56			
PITNUMBER	PIT TYPE	EASTING	NORTHING		
P1/L1	Α	339479.82	626082.26		
P2/L1	В	339533.21	6262143.98		
P3/L1	В	339578.40	6262195.46		
PULL	N/A	339578.40	6262195.46		
PULL	N/A	339591.08	6262209.90		
PULL	N/A	339610.97	6262235.30		
P4/L1	В	339619.83	6262248.83		
TP	N/A	339643.52	6262287.32		
TP	N/A	339647.68	6262302.94		
P5/L1	С	339664.53	626235.56		
P6/L1	D	302446.53	6240336.54		
P1/L2	DTC-2200	339653.09	6262338.63		
P2/L2	DTC-2200	339646.71	6262346.82		
P3/L2	(DTC-2200)	339589.21	6262365.16		
P4/L2	DTC-2200	339502.93	6262383.01		

DEVELOPER CONTRACT PLAN

PILING NOTES -GENERAL

P.1 THE CONTRACTOR SHALL PROVIDE A PILING SUBMISSION FOR REVIEW AND ACCEPTANCE BY THE WSC PRIOR TO UNDERTAKING THE WORKS. THE SUBMISSION SHALL INCLUDE:

P.1.01 GEOTECHNICAL INFORMATION RELEVANT TO THE DESIGN OF THE PILING SYSTEM:

P.1.02 DESIGN CALCULATIONS IN ACCORDANCE WITH AS2159-2009 INCLUDING LOAD AND LOADS COMBINATION CALCULATIONS FOR STRENGTH, SERVICIBILITY AND DURABILITY:

P.1.03 MATERIAL SPECIFICATIONS FOR ALL COMPONENTS OF THE SYSTEM;

P.1.04 PROTECTIVE TREATMENT FOR PILES:

P.1.05 PILE SPLICE, WELDING PROCEDURES;

P.1.06 DRAWINGS SHOWING PILE LAYOUT, POSITION, PILE LENGTH, CUT-OFF LEVEL, FOUNDING LEVEL AND POSITIONAL TOLERANCES OF THE PILES:

P.1.07 HANDLING AND STORAGE OF PILES ON SITE;

P.1.08 PROPOSED PILING EQUIPMENT INCLUDING PILING RIG, HAMMER, PILE HELMET, CUSHION ASSEMBLY, & PILE

P.1.09 CALCULATIONS OF PILE DRIVING ENERGY AND SET TO ACHIEVE THE REQUIRED PILE RESISTANCE; DRIVING METHOD AND PROCEDURE AND OR CONSTRUCTION METHODOLOGY;

P.1.10 EQUIPMENT AND METHODS TO BE USED FOR PRE-BORING (IF REQUIRED);

P.1.11 METHODOLOGY FOR REPAIRING SPLIT PILES INCLUDING DETAILS AND SPECIFICATIONS OF REPAIR BANDS:

P.1.12 NUMBER AND LOCATIONS OF TEST PILES;

P.1.13 PROPOSED TESTING METHODOLOGY FOR STATIC, DYNAMIC AND INTEGRITY TESTING, AND THEIR RESPECTIVE ACCEPTANCE CRITERIA:

P.1.14 PROPOSED DRIVING RECORD SHEET.

P.2 PILES GIVING ANOMALOUS RESULTS MUST BE SUBJECT TO ALTERNATIVE TESTING BY THE CONTRACTOR AND MAY BE REJECTED IF THEY DO NOT COMPLY WITH THE STANDARD. ALTERNATIVE TESTING IS AT THE DISCRETION OF THE SUPERINTENDENT BUT MAY INCLUDE STATIC LOAD TESTING IN ACCORDANCE WITH AS 2159 TO ENSURE THE PILE SERVICEABILITY AND ULTIMATE GEOTECHNICAL STRENGTH. ALL ALTERNATIVE TESTING IS AT NO COST TO THE PRINCIPAL.

P.3 THE CONTRACTOR SHALL PROVIDE CERTIFICATE FOR ALL PILES INSTALLED AS MEETING THE DESIGN REQUIREMENTS.

TIMBRE PILING NOTES NOTES

GENERAL:

T.P.1 GRADE: HARDWOOD F17

T.P.2 TREATMENT LEVEL: H5

T.P.3 DESIGN AND PERFORMANCE: TO AS 2159

T.P.4 MATERIALS AND INSTALLATION: TO AS 2159

T.P.5 SETTLEMENT LIMITS FOR DN1200 SEWER:

TOTAL SETTLEMENT = 3mm DIFFERENTIAL SETTLEMENT BETWEEN ADJACENT PILES = 1mm

T.P.6 SETTLEMENT LIMITS FOR D450 SEWER:

MAX. TOTAL SETTLEMENT = 4mmMAX. DIFFERENTIAL SETTLEMENT BETWEEN ADJACENT PILES = 2mm

T.P.7 LOAD TEST:

10% OF PILES SHALL BE DYNAMICALLY TESTED, 10% OF PILES INTEGRITY TESTED.

T.P.8 NUMBER OF TESTS CAN BE REDUCED WHERE THE PILE CONTRACTOR CAN PROVE THE GEOTECHNICAL STRENGTH REDUCTION FACTOR (\$\phiG\$) EMPLOYED FOR THE DESIGN, IN ACCORDANCE WITH AS 2159-2009 (PILING CODE) IS SUITABLY LOW. THE PILING CONTRACTOR SHALL ALSO PROVIDE AVERAGE RISK RATING CALCULATION TO JUSTIFY THE LEVEL OF TESTING EMPLOYED.

T.P.6. TOLERANCES: CUT OFF LEVEL: 25mm;

> PILE POSITION AT CUT OFF LEVEL: 50mm; STRAIGHTNESS: 1 IN 50.

CFA PILING NOTES NOTES

C.P.1. DESIGN AND PERFORMANCE: TO AS 2159

C.P.2. MATERIALS AND INSTALLATION: TO AS 2159

C.P.3. ALL PILES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CFA PILING SPECIFICATIONS PREPARED FOR THIS CASE.

C.P.4 SETTLEMENT LIMITS:

TOTAL SETTLEMENT = 3mm DIFFERENTIAL SETTLEMENT BETWEEN ADJACENT PILES = 1mm

C.P.5 LOAD TEST:

APPROVAL DATE:

AS A MINIMUM, 3% OF PILES SHALL BE DYNAMICALLY TESTED; 3% OF PILES SHALL BE STATIC TESTED; 10% OF PILES INTEGRITY TESTED

ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

C.P.6 TOLERANCES: CUT OFF LEVEL: 25mm;

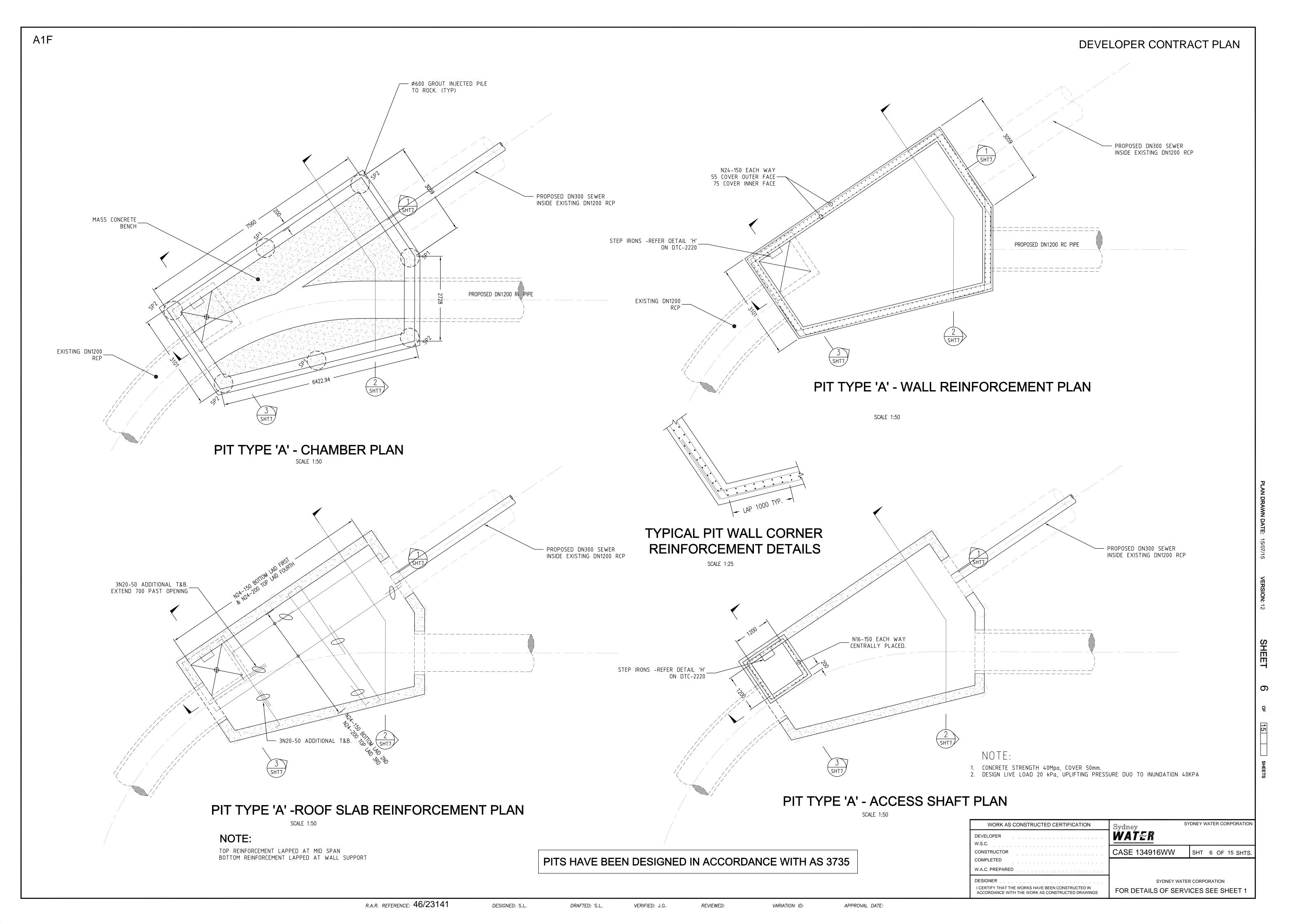
PILE POSITION AT CUT OFF LEVEL: 75mm;

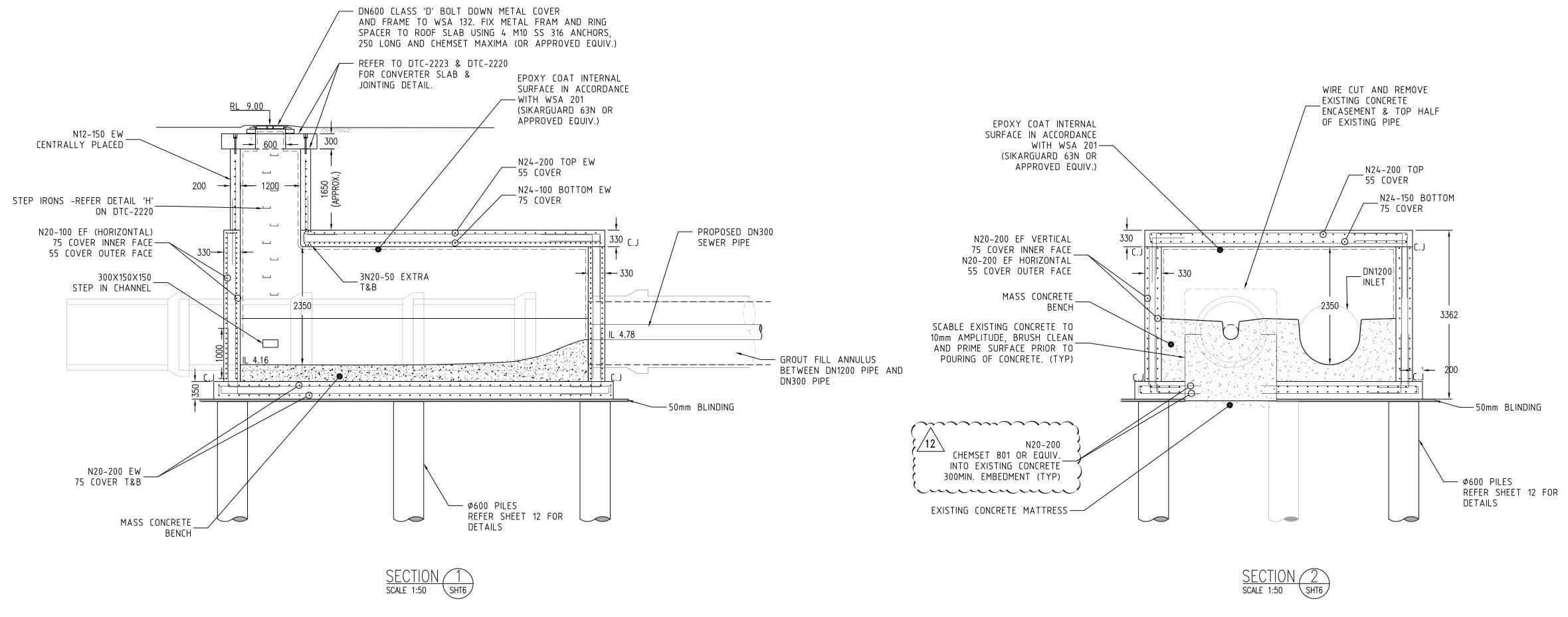
STRAIGHTNESS: 1 IN 50.

SYDNEY WATER CORPORATION WORK AS CONSTRUCTED CERTIFICATION Svdnev WAT≅R DEVELOPER W.S.C. CONSTRUCTOR CASE 134916WW SHT 5 OF 15 SHTS COMPLETED W.A.C. PREPARED DESIGNER SYDNEY WATER CORPORATION I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN

FOR DETAILS OF SERVICES SEE SHEET 1

R.A.R. REFERENCE: 46/23141 DESIGNED: S.L. SCALE: NTS DRAFTED: S.L. **VERIFIED:** REVIEWED: J.G. VARIATION ID:

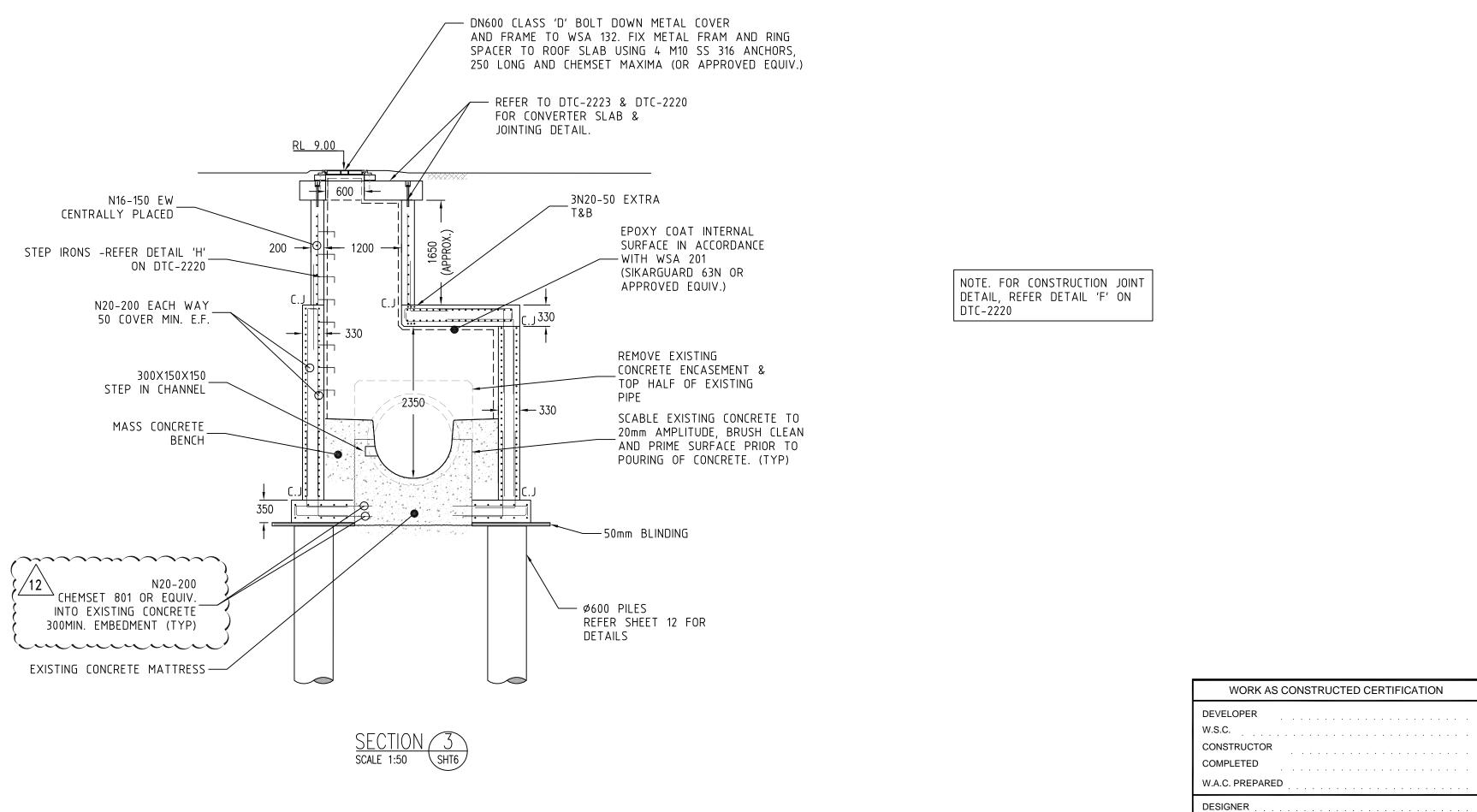




PIT TYPE 'A' PILING NOTES:

- P1. PILES SHALL BE SOCKETED INTO ROCK TO SUFFICIENT DEPTH. REFER TO SHT. SHEET 12 FOR DETAILS.
- P2. CONTRACTOR TO PROVIDE FULL DOCUMENTATION AND COMPLIANCE CERTIFICATE FOR PILE INSTALLATION.

PITS HAVE BEEN DESIGNED IN ACCORDANCE WITH AS 3735



R.A.R. REFERENCE: 46/23141

DESIGNED: S.L.

DRAFTED: S.L.

VERIFIED: J.G.

REVIEWED:

VARIATION ID:

APPROVAL DATE:

/ Of LOLL ONLE TO

SYDNEY WATER CORPORATION

SHT 7 OF 15 SHTS

SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

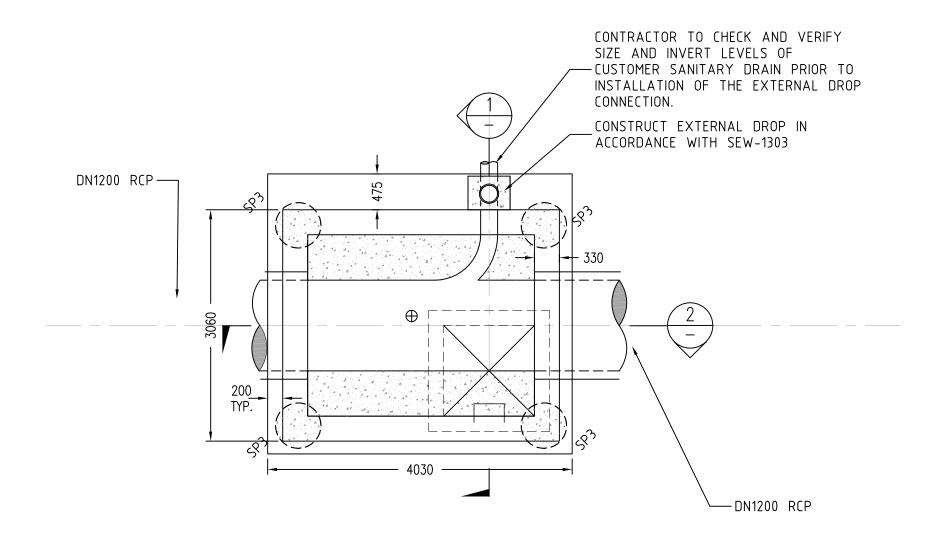
Sydney

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN

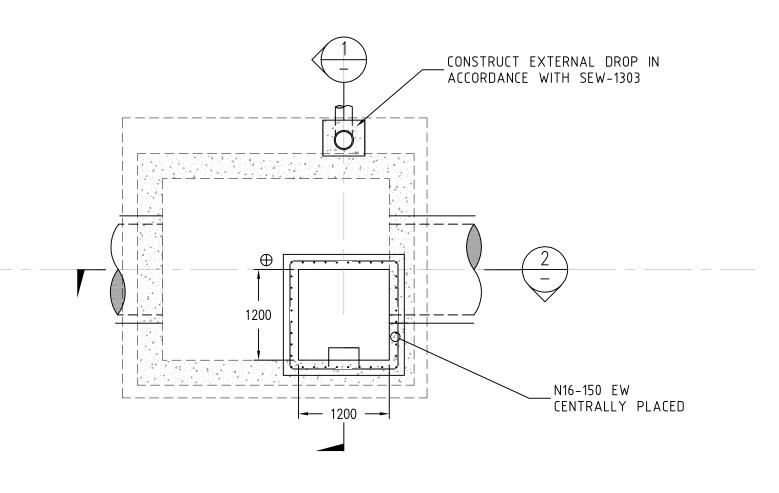
ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

WATER

CASE 134916WW



600 LAP (TYP) 3N20-50 EXTRA T&B IN ROOF SLAB N20-200 EACH WAY 55 COVER OUTER FACE— 75 COVER INNER FACE REFER TO TYPICAL CORNER REINFORCEMENT -DETAILS



PIT TYPE B - CHAMBER PLAN

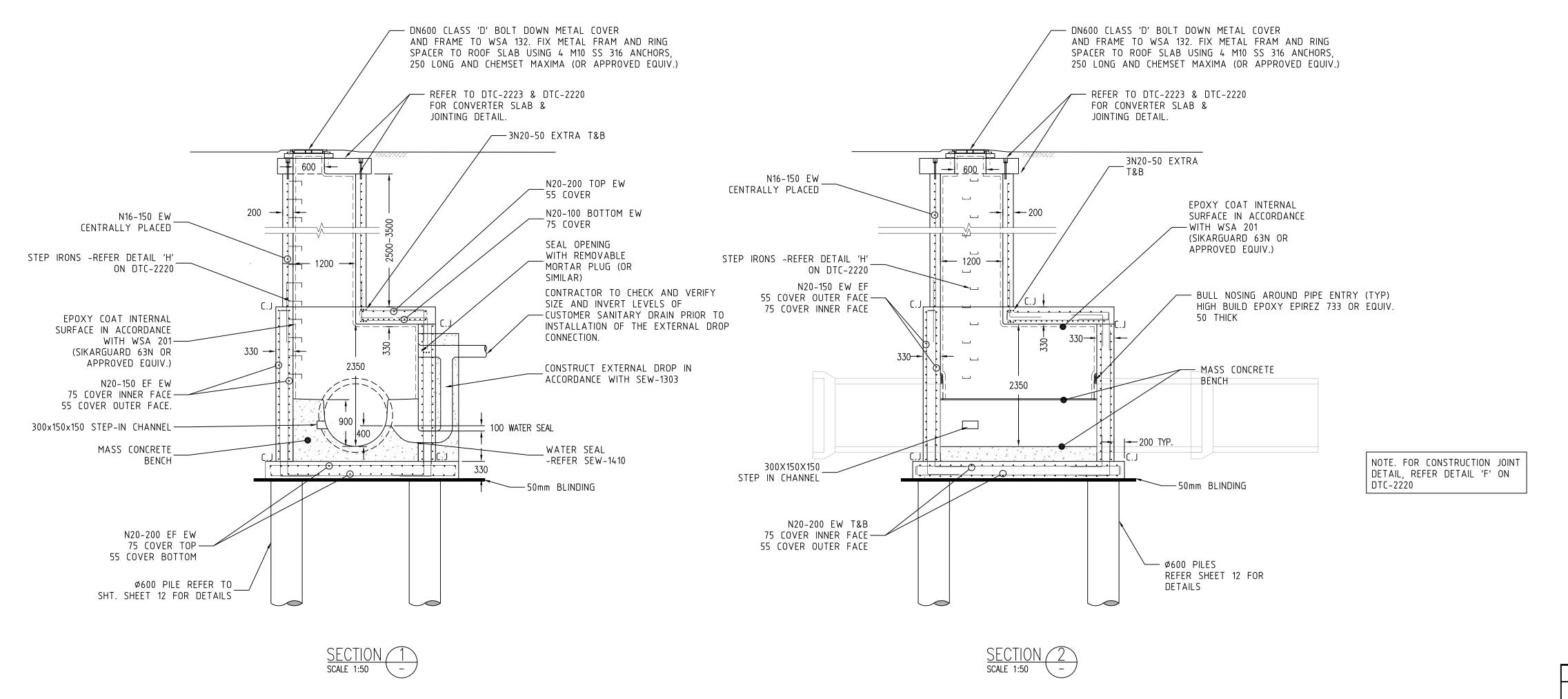
SCALE 1:50

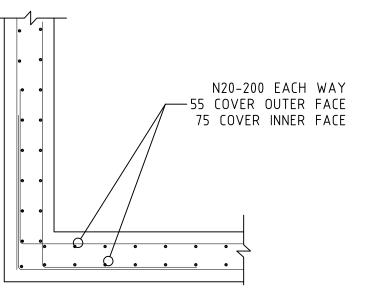
PIT TYPE B - CHAMBER REINFORCEMENT PLAN

SCALE 1:50

PIT TYPE B - ACCESS SHAFT REINFORCEMENT PLAN

SCALE 1:50





TYPICAL PIT CORNER REINFORCEMENT PLAN

SCALE 1:25

SYDNEY WATER CORPORATION WORK AS CONSTRUCTED CERTIFICATION WATER DEVELOPER W.S.C. CONSTRUCTOR CASE 134916WW SHT 8 OF 15 SHTS COMPLETED W.A.C. PREPARED DESIGNER SYDNEY WATER CORPORATION

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN

ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

R.A.R. REFERENCE: 46/23141

PITS HAVE BEEN DESIGNED IN ACCORDANCE WITH AS 3735

VERIFIED: J.G.

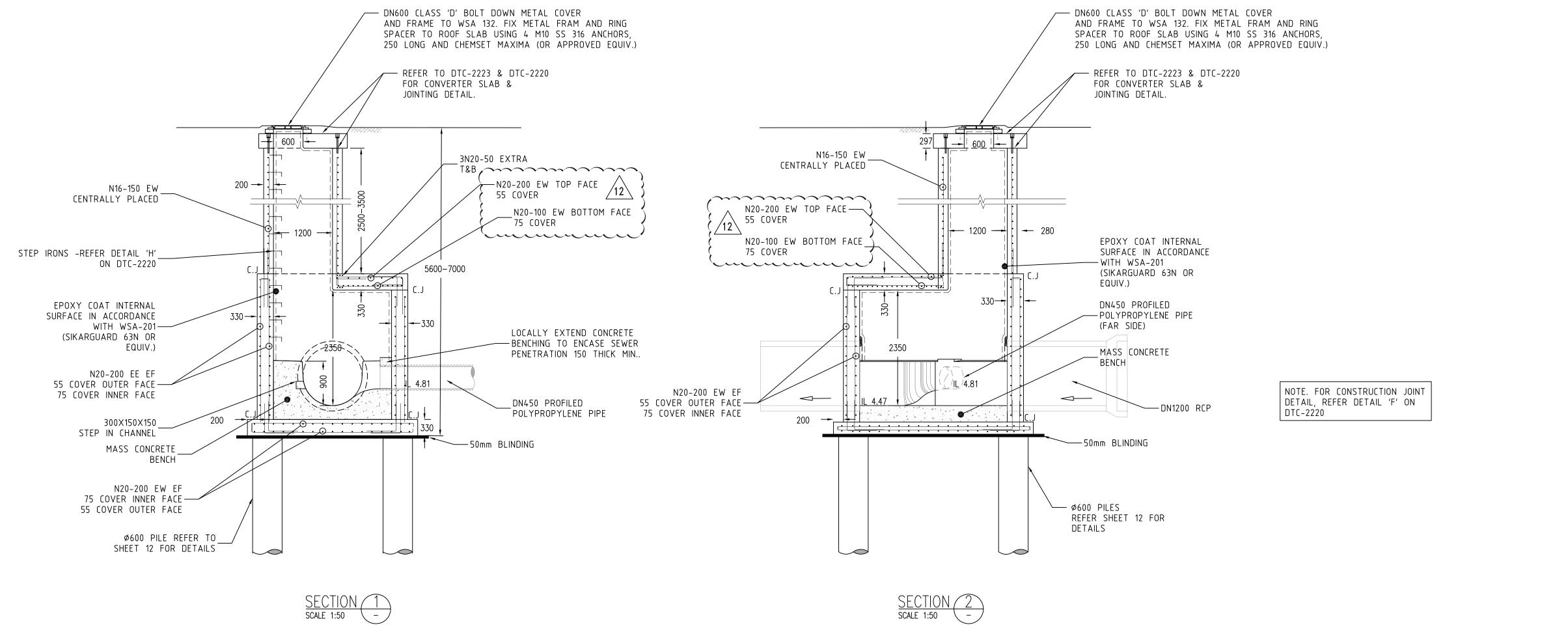
REVIEWED:

VARIATION ID:

APPROVAL DATE:

FOR DETAILS OF SERVICES SEE SHEET 1

DESIGNED: S.L. DRAFTED: S.L.



PITS HAVE BEEN DESIGNED IN ACCORDANCE WITH AS 3735

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER
W.S.C.

CONSTRUCTOR
COMPLETED

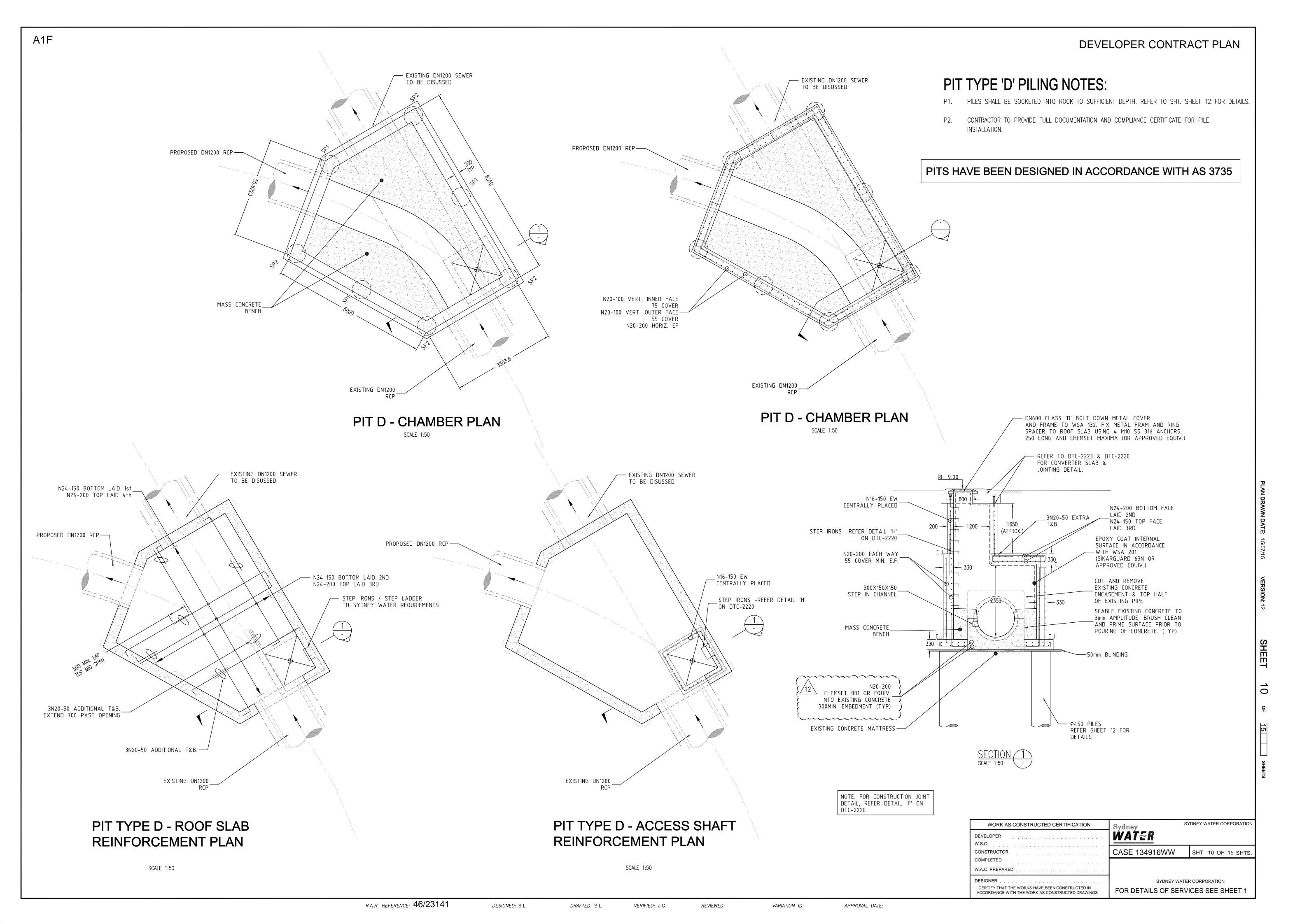
W.A.C. PREPARED

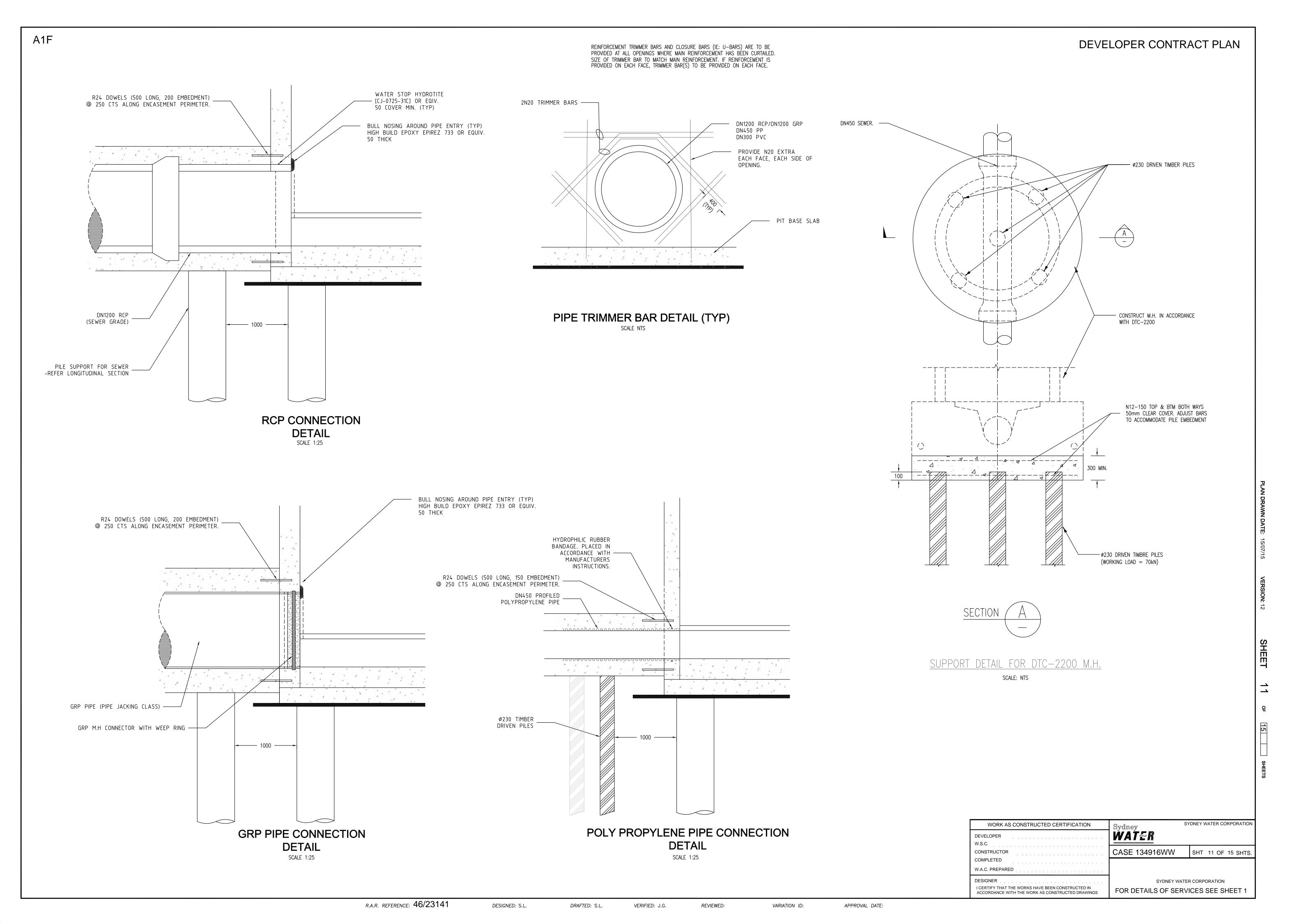
DESIGNER

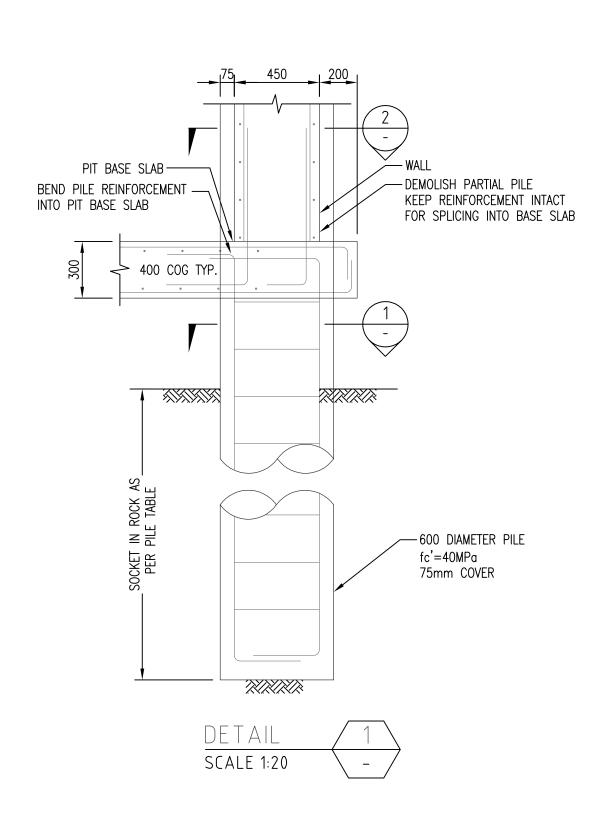
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

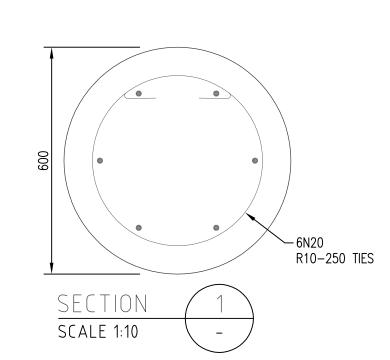
SYDNEY WATER CORPORATION

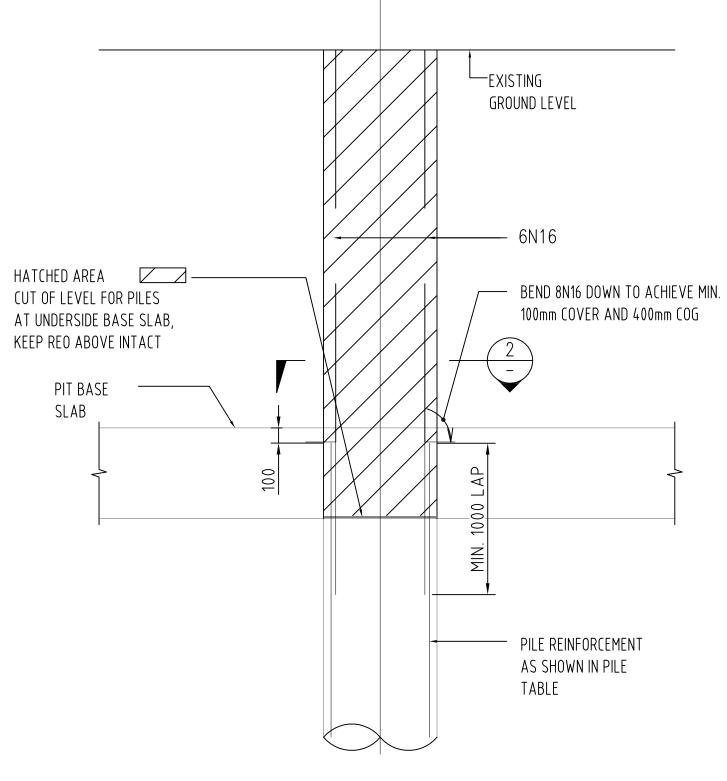
FOR DETAILS OF SERVICES SEE SHEET 1



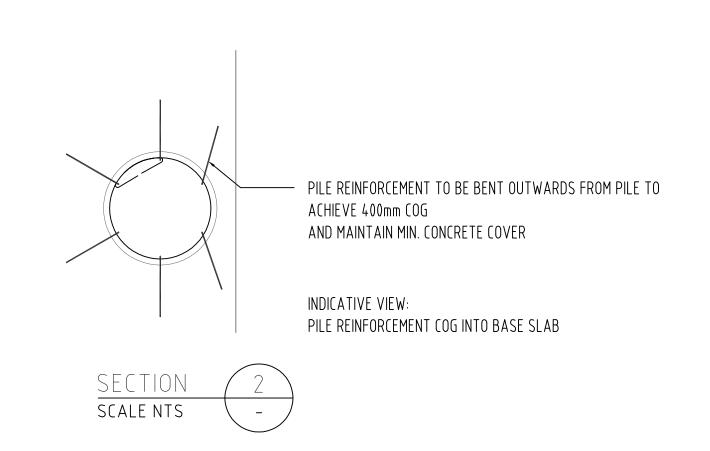


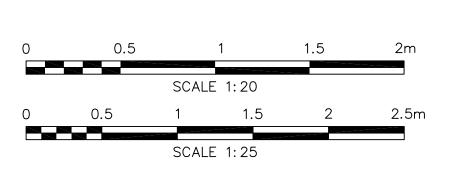






TYPICAL PILE CUTTING DETAIL
SCALE 1:25





WORK AS CONSTRUCTED CERTIFICATION	Sydney	YDNEY WATER CORPORATION
DEVELOPER	<u>WATER</u>	
CONSTRUCTOR	CASE 134916WW	SHT 12 OF 15 SHTS.
W.A.C. PREPARED		
DESIGNER I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	

REVIEWED:

APPROVAL DATE:

