

RANDWICK CAMPUS REDEVELOPMENT - INTEGRATED ASB (IASB) ADDITION (HOSPITAL ROAD LOWERING)-RANDWICK NSW, AUSTRALIA

WSC/SEWER SERVICES

DRAWING NUMBER	DRAWING TITLE	REVISION
RCR-ACR-WSC-00-DWG-00-001	COVER SHEET, LEGEND AND NOTES SHEET	E
RCR-ACR-WSC-00-DWG-00-101	PROPOSED SEWER PLAN	D
RCR-ACR-WSC-00-DWG-00-102	SEWER LONG SECTION	C

GENERAL WSC NOTES

- CONSTRUCTION METHODOLOGY TO BE CONFIRMED WITH THE PRINCIPAL CONTRACTOR. ALL STRUCTURES TO BE CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS ON COMPLETION OF ROAD LINE.
- ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
- FIELD COMPACTION TESTS ARE REQUIRED TO SATISFY THE SEWERAGE CODE OF WSA 02-2002 VERSION 2.2 (SYDNEY WATER EDITION) VERSION 4.
- CUSTOMER DRAIN CONNECTIONS CONSTRUCTED CONCURRENTLY WITH THE NEW SEWER MUST BE CONSTRUCTED BY A LICENSED PLUMBER. THE WORKS MUST BE INSTALLED IN ACCORDANCE WITH THE CURRENT NSW CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZS3500. THE CUSTOMER DRAIN CONNECTION MUST BE INSPECTED BY A NSW FAIR TRADING PLUMBING INSPECTION ASSURANCE SERVICE (PIAS) OFFICER PRIOR TO BACKFILL.
- CONTRACTOR TO VERIFY THE INVERT LEVEL OF SEWER AT MH020 AND MH030 PRIOR TO CONSTRUCTION. ACOR TO BE NOTIFIED IMMEDIATELY OF ANY DIFFERENCE OF LEVEL FROM THAT QUOTED ON THIS PLAN.
- THE PROPOSED WORKS DETAILED HEREON ARE TO BE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER'S TECHNICAL WSA 02-2002 VERSION 2.2 (SYDNEY WATER EDITION) VERSION 4. THE CONTRACTOR MUST HAVE A COPY OF THESE DOCUMENTS ON SITE AT ALL TIMES.
- SERVICES SHOWN ARE INDICATIVE ONLY. CURRENT SERVICES SEARCH AND SITE CHECK TO CONFIRM HORIZONTAL & VERTICAL POSITIONS OF ALL EXISTING SERVICES WILL BE NECESSARY PRIOR TO COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS & CARE TO BE TAKEN WHEN WORKING WITHIN CLOSE PROXIMITY TO THESE SERVICES.
- B.O.A/B.A.A APPLICATION (BUILDING PLAN APPROVAL) TO BE APPLIED FOR PRIOR TO COMMENCING CONSTRUCTION.
- 24/7 UNRESTRICTED ACCESS TO MAINTENANCE STRUCTURES PROVIDED.
- MH DETAILS AND LOCATION TO BE READ IN CONJUNCTION WITH, AND COORDINATED WITH, SYDNEY WATER DEEMED TO COMPLY DRAWINGS, THE CIVIL STORMWATER WORKS AND HYDRAULIC PACKAGE.
- ALL EXISTING PROPERTY SERVICE CONNECTION POINTS TO BE SEALED IN ACCORDANCE WITH SYDNEY WATER'S REQUIREMENTS. ONCE TRANSFER OF OWNERSHIP IS FINALISED SYDNEY WATER CONTRACTOR IS TO SEAL ALL JUNCTIONS TO ENSURE THAT THERE IS NO DAMAGE TO THE EXISTING SYDNEY WATER INFRASTRUCTURE DURING THE DEMOLITION PROCESS.
- FOR EXISTING MAINS IDENTIFIED ON THE CCTV REPORT AS "DRY" OR NOT FOUND WITHIN SERVICE LOCATION REPORT - CONSTRUCTOR TO INVESTIGATE AND CONFIRM IF THE MAINS ARE REDUNDANT. IF FOUND TO BE REDUNDANT, CONTRACTOR TO DISUSE APPROPRIATELY. IF FOUND TO BE LIVE, THESE MAINS WILL NEED TO BE CONNECTED TO THE PROPOSED SYDNEY WATER SEWER.

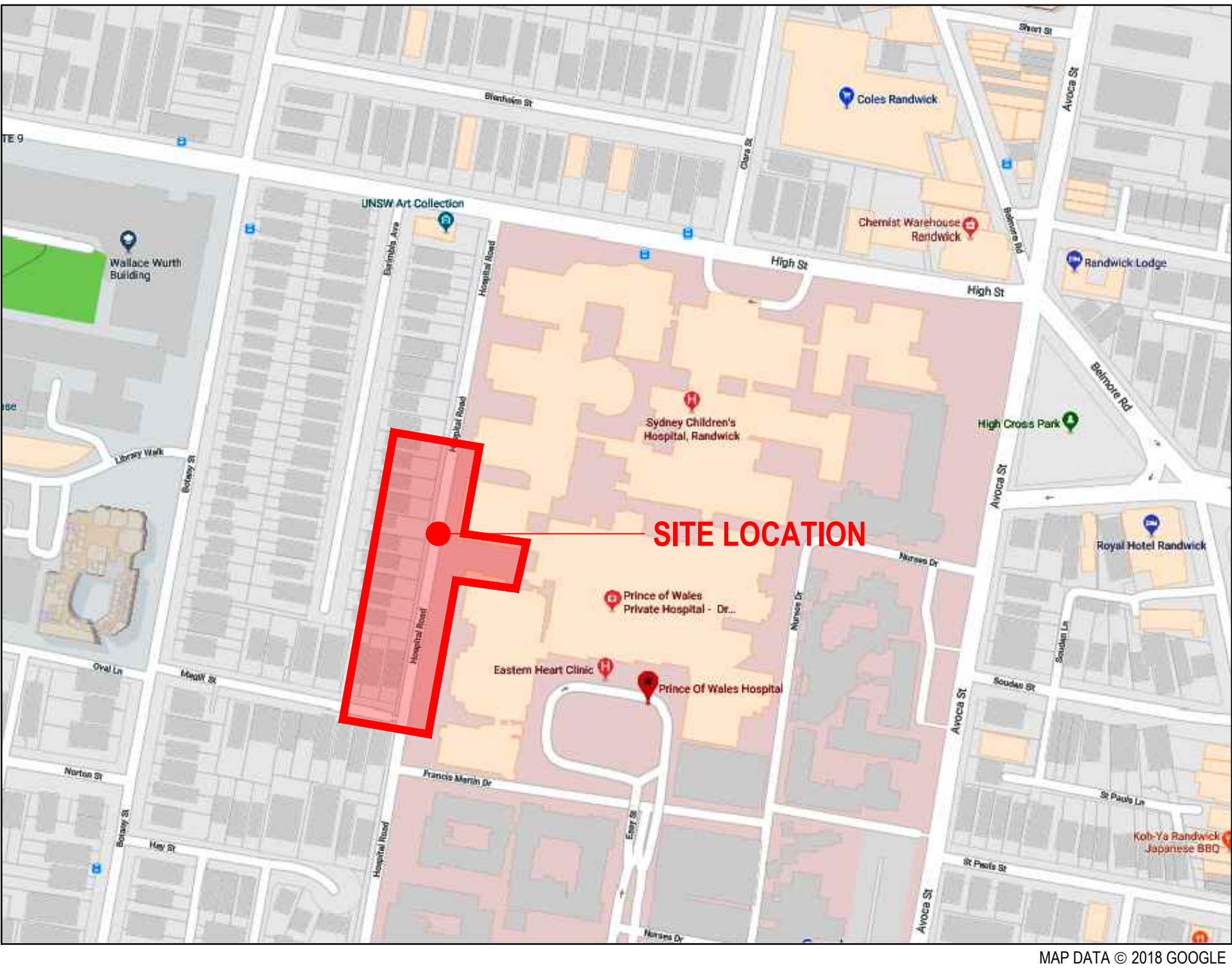
SEWER LEGEND

- MH XXX PROPOSED SEWER MANHOLE
- TMS TERMINAL MAINTENANCE SHAFT
- MH XY EXISTING SEWER MANHOLE
- R.P. RODDING POINT
- S PROPOSED SYDNEY WATER SEWER PIPE
- EXISTING SYDNEY WATER SEWER PIPE
- SZ EXISTING PRIVATE SEWER DRAIN LINE
- PROPOSED PRIVATE SEWER DRAIN LINE
- XXXXXXXXXXXX DEMOLISH EXISTING PIPE

GENERAL HYDRAULIC NOTES

- GH1 VERIFY ALL DIMENSIONS AND EXISTING LEVELS, SERVICES AND STRUCTURES ON SITE PRIOR TO COMMENCEMENT OF WORK.
- GH2 ARRANGE FOR ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- GH3 ON COMPLETION OF PROPOSED WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS UNLESS NOTED OTHERWISE.
- GH4 MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD WHERE REQUIRED.
- GH5 WHERE NEW WORKS ABUT EXISTING, THE SUB CONTRACTOR SHALL ENSURE THAT A SMOOTH, EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- GH6 CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER OR IN CLOSE PROXIMITY TO THESE SERVICES. HAND EXCAVATE IN THESE AREAS.
- GH7 THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED (BUT NOT LIMITED TO) ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND COMMUNICATION/SECURITY DRAWINGS AND SPECIFICATIONS.
- GH8 SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER NON CORROSIVE CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- GH9 ON COMPLETION, ALL PIPEWORK SHALL BE SUBJECT TO A PRESSURE TEST REQUIRED BY AUSTRALIAN STANDARDS. ANY DEFECTS FOUND IN THE SYSTEM SHALL BE REMEDIED AND THE TEST RE-APPLIED.
- GH10 TRENCHES THROUGH EXISTING ROAD AND CONCRETE AREAS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING. REINSTATE WITH ADDITIONAL REINFORCEMENT AND DOWELING AS REQUIRED BY STRUCTURAL ENGINEERS.
- GH11 PROVIDE ALL TIMBERING, SHORING, AND SHUTTERING AS NECESSARY TO CONSTRUCT PIPEWORK, INCLUDING REMOVAL UPON COMPLETION.
- GH12 OBTAIN ALL AUTHORITY APPROVALS AND PAY ALL FEES.
- GH13 ALL WORK TO BE IN ACCORDANCE WITH SYDNEY WATER CORPORATION, FIRE AND RESCUE NSW, AS3500, AS2444, AS2419 AND RELATED STANDARDS AS APPROPRIATE.
- GH14 PROVIDE 'AS BUILT' DOCUMENTATION UPON PRACTICAL COMPLETION OF THE PROJECT. THIS SHALL BE IN CAD FORMAT (AUTOCAD) AND REVIT 3D MODELING.
- GH15 ORIGIN OF LEVELS-AUSTRALIAN HEIGHT DATUM.
- GH16 ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- GH17 ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND OR AN APPROVED GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 E1.1.
- GH18 ALL SERVICES THAT CROSS FOOTINGS ETC. SHALL BE BACKFILLED WITH GRANULAR MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 95% M.M.D.D.

DTC DRAWING TABLE		ISSUE	DATE
DRAWING	NAME		
DTC-2000	MAINTENANCE HOLES - CONSTRUCTION NOTES	C	18/03/15
DTC-2200	DN1200 MAINTENANCE HOLES - CAST IN-SITU CONCRETE WALL	F	18/05/15
DTC-2202	DN1200 MAINTENANCE HOLES - CAST IN-SITU CONCRETE WALL	E	18/03/15
DTC-2220	MAINTENANCE HOLES - DETAILS SHEET 1	D	18/03/15
DTC-2221	MAINTENANCE HOLES - DETAILS SHEET 2	B	01/03/13
DTC-2222	MAINTENANCE HOLES - DETAILS SHEET 3	C	18/03/15



SERVICES SHOWN HAVE BEEN LOCATED FROM CLASS 'C' SURVEY ONLY. CONTRACTOR IS REQUIRED TO PHYSICALLY LOCATE ALL EXISTING SERVICES IN CLOSE PROXIMITY TO EXCAVATION PRIOR TO COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS & CARE TO BE TAKEN WHEN WORKING WITHIN CLOSE PROXIMITY TO THESE SERVICES.

DIAL BEFORE YOU DIG



IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.



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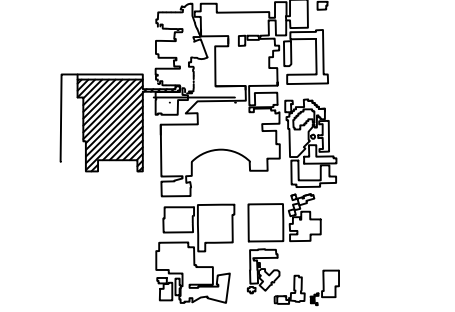
NOTE
CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORK OR PREPARATION OF SHOP DRAWINGS. DO NOT SCALE THIS DRAWING.




ISSUE	DATE	FOR
P1	02.11.18	PRELIMINARY
A	23.11.18	SCHEMATIC DESIGN
B	20.12.18	ISSUED FOR PRICING
C	15.05.19	DRAFT ISSUE
D	05.07.19	SSDA ISSUE
E	15.07.19	SSDA ISSUE

PROJECT MANAGEMENT
PWC
STRUCTURAL ENGINEERING
ENSTRUCT GROUP
MECHANICAL ENGINEERING
FREDON AIR
ELECTRICAL ENGINEERING
FREDON
HYDRAULIC ENGINEERING
CP CONSULTANTS
CLIENT



PROJECT
POW - REDEVELOPMENT
ACUTE SERVICES BUILDING
RANDWICK NSW AUSTRALIA
ACOR PROJECT NUMBER
SY180053
DRAWING KEY



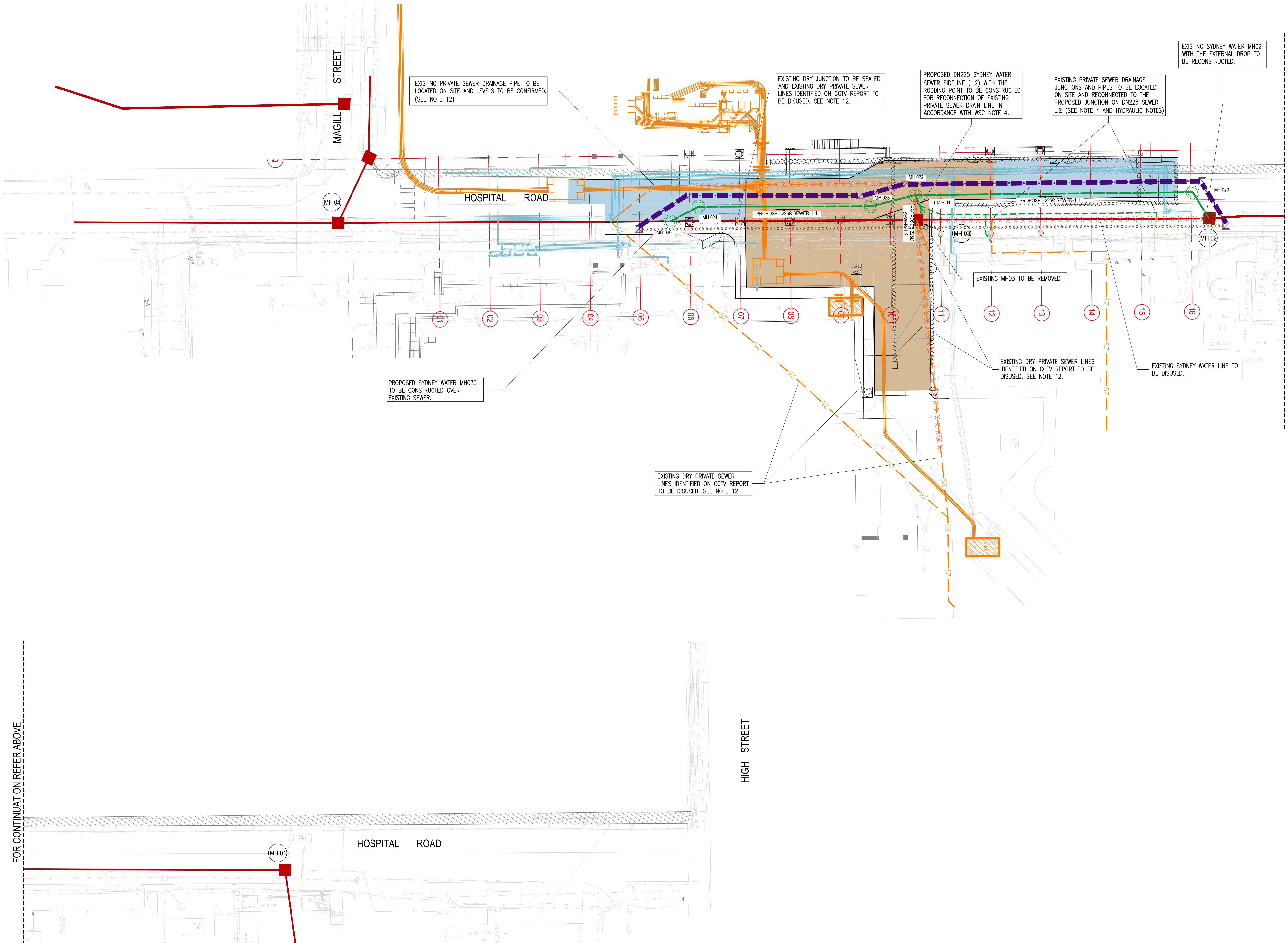
TRUE NORTH	PROJECT NORTH
	
GRAPHIC SCALE	
	
SCALE	
@ B1 DO NOT SCALE	

STATUS
DESIGN
DRAWING

COVER SHEET

DRAWING NUMBER	ISSUE
RCR-ACR-WSC-00-DWG-00-001	E

CONFIDENTIAL & COMMERCIAL-IN-CONFIDENCE



FOR CONTINUATION REFER ABOVE

FOR CONTINUATION REFER BELOW



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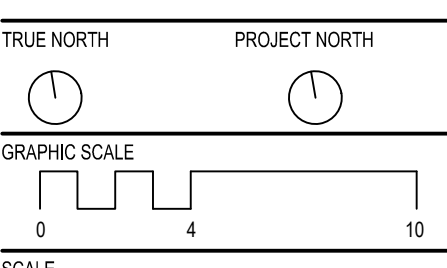
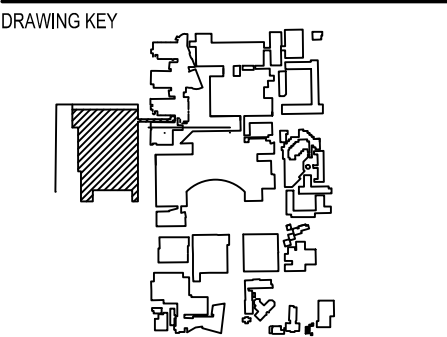
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CP CONSULTANTS
CLIENT



PROJECT
POW - REDEVELOPMENT
ACUTE SERVICES BUILDING
RANDWICK NSW AUSTRALIA
ACOR PROJECT NUMBER
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1:250 @ B1 DO NOT SCALE
STATUS
DESIGN
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PROPOSED SEWER PLAN

DRAWING NUMBER	ISSUE
RCR-ACR-WSC-00-DWG-00-101	D

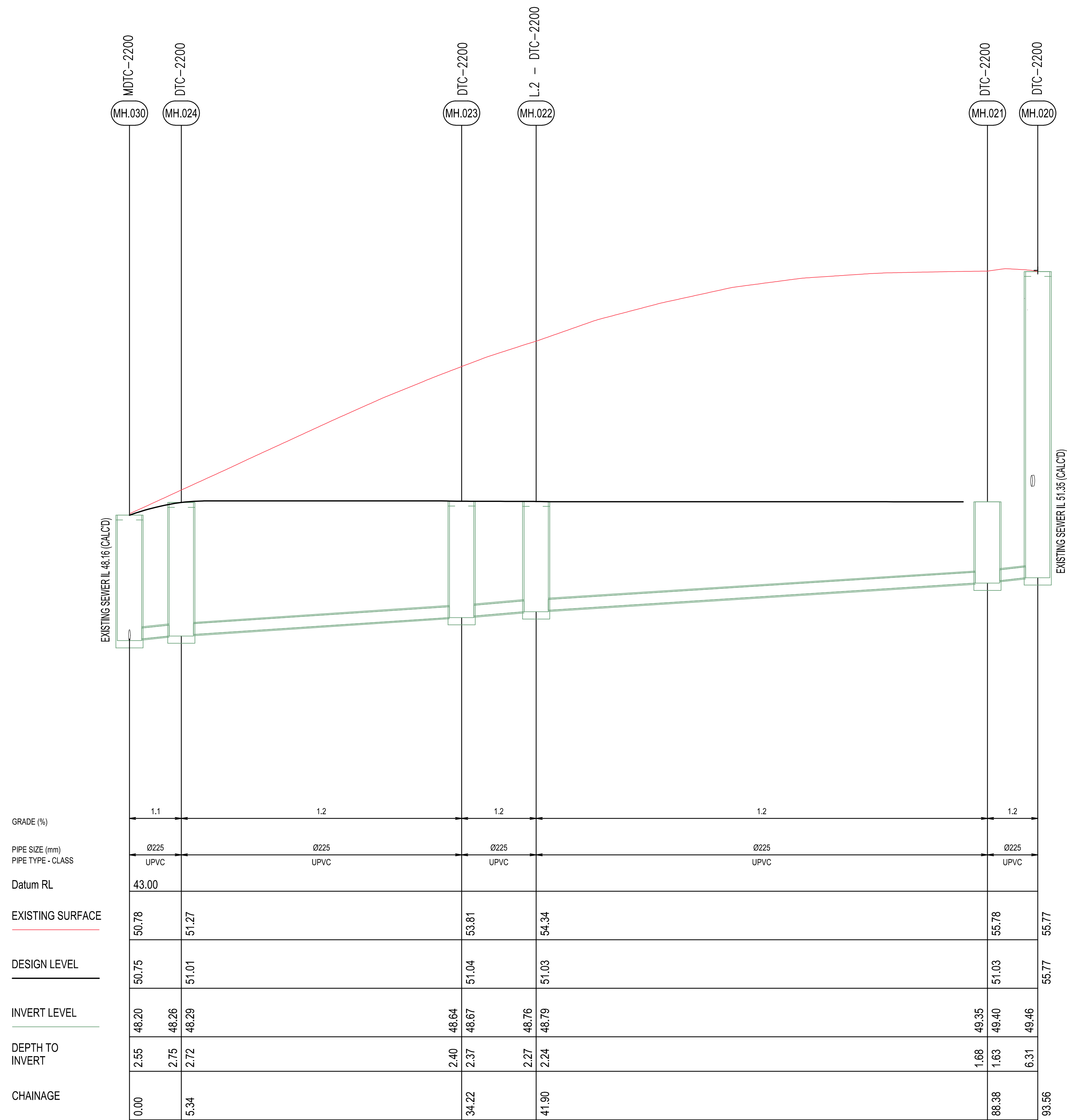
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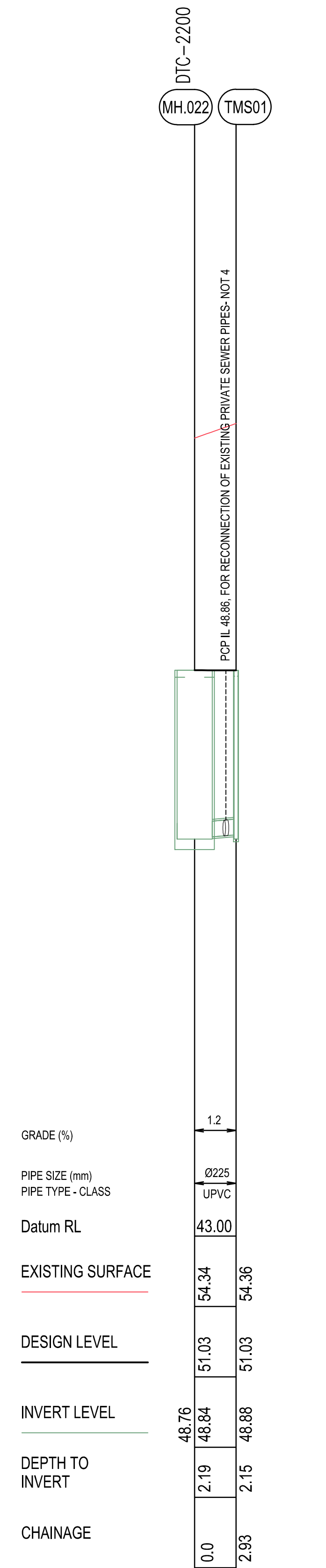
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LINE 1 SEWER
HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50



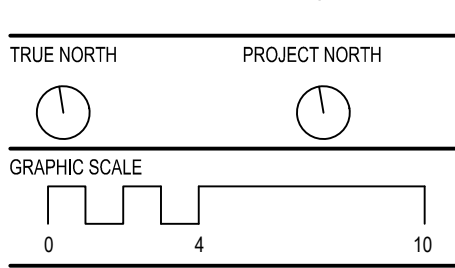
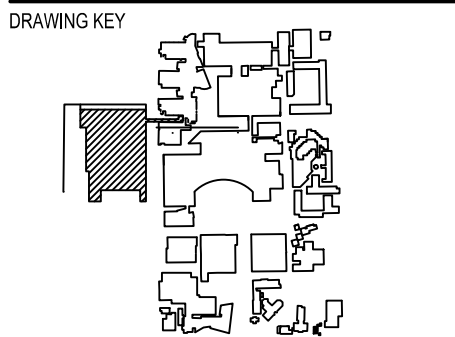
LINE 2 SEWER
HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50

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STRUCTURAL ENGINEERING	ENSTRUCT GROUP
MECHANICAL ENGINEERING	FREDON AIR
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HYDRAULIC ENGINEERING	CP CONSULTANTS



PROJECT
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ACUTE SERVICES BUILDING
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STATUS
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SEWER LONGSECTION

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RCR-ACR-WSC-00-DWG-00-102	C