Prestons Waste Treatment Facility
Amendment Report

Appendix E

Consolidated design drawings

ARCADIS

Prestons Waste Treatment Facility

Amendment Report

Appendix E1

Architectural design

ARCADIS

9 WHYALLA PL, PRESTONS, NSW 2170
CONSTRUCTION CERTIFICATE SUBMISSION

GENERAL INFORMATION

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GENERAL NOTE:

1. THESE DRAWINGS ARE ISSUED BEING APPROXIMATELY 70% COMPLETE AND THEREFORE MAY REQUIRE FURTHER COORDINATION AND FINAL ADJUSTMENTS PRIOR TO ISSUE FOR CONSTRUCTION.
2. THESE DRAWINGS HAVE BEEN PREPARED BASED ON ALL ENGINEERING INFORMATION RECEIVED TO DATE AND MAY BE SUBJECT TO FURTHER COORDINATION AND RESOLUTION PRIOR TO ISSUE FOR CONSTRUCTION.
3. THESE DRAWINGS MAY BE SUBJECT TO MINOR ADJUSTMENT UPON RECEIPT OF FINAL FIRE ENGINEERING AND BCA ADVICE AND DOCUMENTATION.
4. RISERS AND PENETRATIONS MAY BE SUBJECT TO MINOR ADJUSTMENT UPON RECEIPT OF FINAL ENGINEERING ADVICE AND DOCUMENTATION.
5. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL, CIVIL AND BUILDING SERVICES DOCUMENTS, SCHEDULES & SPECIFICATIONS.
6. THE CONTRACTOR, SUB-CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, SETBACKS PRIOR TO COMMENCING ANY WORKS OR ORDERING MATERIALS AND SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BUILDING WORKS CONFORM TO THE BUILDING CODE OF AUSTRALIA, AUSTRALIAN STANDARDS (AS) CODES (CURRENT EDITIONS), BUILDING REGULATIONS, LOCAL LAWS AND TOWN PLANNING REQUIREMENTS.
7. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE. ANY DISCREPANCIES ARE TO BE ADVISED TO THE ARCHITECT FOR CLARIFICATION.



AMENDMENTS

A	12/05/23	Drawing progress update	WL					
B	21/07/23	CC progress coordination	WL					
1	29/08/23	70% CC Submission _Draft	WL					
2	01/09/23	70% CC Submission	WL					

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PROJECT

PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING

COVER PAGE & DRAWING LIST

NOTES

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Do not scale drawings, use figured dimensions only. Any discrepancies must be reported to the Architect for clarification. Drawings shall not be used for construction purposes until issued by Iwolff annotated as "For Construction".

DATE	01/09/2023
DRAWN	WL
SCALE	1:200@A1 1:400@A3
PROJECT NO.	22030
CHECK:	GW
DRAWING NUMBER:	CC-000
REVISION	2
SHEET	A1

CAD Directory: Z:\02_Projects\22000\22030_9 Whyalla Pl, Prestons, NSW\2.0_Drawings\01_CAD\05_CD\22030_Whyalla_CC_000

ARCHITECTURAL GENERAL NOTES

GENERAL NOTE

ALL MATERIALS AND WORKS SHALL COMPLY WITH CURRENT BUILDING REGULATIONS, THE CURRENT EDITION OF THE BUILDING CODE OF AUSTRALIA AND ALL RELEVANT CURRENT AUSTRALIAN STANDARDS. COMPLETE WORK IN ACCORDANCE WITH INSTRUCTIONS AND WRITTEN VARIATION ORDERS.

BUILDER TO REVIEW ALL RELEVANT ENGINEER'S AND CONSULTANT'S DRAWINGS, SPECIFICATIONS AND FINISHES SCHEDULES AND VERIFY ANY DISCREPANCY PRIOR TO COMMENCING CONSTRUCTION WORK.

IF IT IS BELIEVED THAT A CONFLICT EXISTS BETWEEN STATUTORY REQUIREMENTS AND THE DOCUMENTS, NOTIFY THE CONTRACT ADMINISTRATOR/ARCHITECT IMMEDIATELY AND PROVIDE RECOMMENDATION TO RESOLVE THE CONFLICT.

ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO CONSTRUCTION. DIMENSIONS NOTED ON DRAWINGS ARE TO BE USED/ CHECKED ONSITE. DO NOT SCALE DIMENSION FROM HARD COPIES OR ELECTRONIC FORMAT (INCL. CAD & PDF)

ENSURE ADEQUATE SUPPORT & STRUCTURE.

BUILDER TO CHECK ALL EXISTING PENETRATIONS AND VERIFY IF EXISTING SETOUTS AND CONSTRUCTION. ALL REDUNDANT PENETRATIONS TO BE FILLED APPROPRIATELY AND MAINTAIN MIN FRL REQUIREMENTS.

ALLOW FOR NOGGINS OR STRUCTURAL SUPPORT TO FIX - FIXTURE AND FITTINGS AND IN PARTICULAR BATHROOM TOWEL RAILS AND HANDRAILS.

METAL TO METAL FINISHES MUST HAVE ISOLATION BARRIER BETWEEN.

ALLOW EXPANSION JOINTS WHEREVER DIFFERENT FINISHED MEET.
ALL EXPANSION JOINTS TO AS CODES.

KEEP SITE CLEAN AND TIDY AT ALL TIMES DURING CONSTRUCTION - ALLOW FOR PROTECTION OF FINISHES.

INSULATION AND PLUGGING HOLES WHERE PIPES PENETRATE - SEAL AND FLASH. ALLOW FOR COVER PLATES, TAPS, CAULKING - AIRCONDITIONG PIPES, WASTE PIPES IN CUPBOARDS ETC.

ALL PROPRIETARY ITEMS TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS. GALVANIC SEPARATION TO BE INSTALLED WHERE DIFFERENT METALS ARE USED IN COMBINATION TO PREVENT FROM GALVANIC CORROSION.

IF THERE IS ANY 3D VIEWS IN THE TENDER DOCUMENTATION , THEY ARE TO BE VIEW FOR ILLUSTRATION ONLY, NOT TO BE USED FOR CONSTRUCTION.

FOR ALL FINISH CODES REFER TO ' FINISHES SCHEDULE' IN THE SPECIFICATION.

REFER TO DRAWING CD06-00 FOR SCHEDULE OF WALL TYPES.

FIRE RATING

FIRE RATING OF FLOORS, WALLS AND CEILINGS/ROOF, SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT BUILDING CODE OF AUSTRALIA.

FIRE PROTECTION TO STEEL BEAM TO COMPLY WITH THE REQUIRED FIRE RESISTANCE LEVEL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT BUILDING CODE OF AUSTRALIA.

EMERGENCY AND EXIT REQUIREMENTS

ALL EMERGENCY LIGHTING AND WARNING, INCLUDING EWIS SYSTEM, AND SMOKE ALARMS TO COMPLY WITH RELEVANT AS AND BCA REQUIREMENTS.
REFER TO SERVICES ENGINEER'S DRAWINGS & SPECIFICATIONS.

WALL & PARTITION NOTES

STEEL FRAME WALLS TO AS 4600;
TIMBER FRAME WALLS TO AS 1684
ALL TIMBER STUDS TO BE F5, BLUE PINE H2-F

REFER TO ELEVATIONS AND FINISHES SCHEDULE FOR APPLIED FINISHES INCLUDING PAINT, TILE, STONE, ETC.

TOP OF FRAME FOR INTERNAL PARTITIONS TO BE BUILT FROM FINISHED SLAB LEVEL TO THE U/S OF THE SLAB ABOVE. ALL LININGS TO TERMINATE AT 100MM OVER FINISHED CEILING LEVEL. UNLESS OTHERWISE NOTED.

COMPLY WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE SPECIFIED:
AS/NZS 4600 DESIGN, MATERIALS AND PROTECTION
AS 3623 DESIGN OF DOMESTIC METAL FRAMING.

PROVIDE EITHER FACTORY PRE-CUT FLARED HOLES, OR SITE CUT HOLES PUNCHES OR DRILLED ON THE CENTRE LINE OF THE MEMBER.

LENGTHS - PROVIDE STUDS IN SINGLE LENGTHS WITHOUT SPLICES.

BOXED STUD - PROVIDE BOXED STUDS WHERE REQUIRED AT OPENINGS OR PENETRATIONS.

MAXIMUM STUD SPACING - 600MM OR AS RECOMMENDED BY FRAMING MANUFACTURER AND LINING MANUFACTURER.

GENERAL WINDOW NOTE

TYPICALLY ALL WINDOWS ARE VIEWED FROM OUTSIDE. WINDOW SCHEDULE TO BE READ IN CONJUNCTION WITH FLOOR PLANS AND ELEVATIONS.

CONTRACTOR TO CHECK ALL OPENINGS ON SITE FOR ALL SIZES PRIOR TO FABRICATION.

ALL OPENING WINDOW SASHES ARE TO BE FITTED WITH DRAUGHT PROOF SEALS.

ALL GAPS BETWEEN WINDOW AND DOOR FRAMES AND THE BUILDING FABRIC TO DRAUGHT PROOF SEALS TO MINIMIZE AIR INFILTRATION.

ALL WINDOWS TO BE ALUMINUM FRAMED AWNING OR SLIDING OPENING AS INDICATED ON WINDOWS UNLESS NOTED OTHERWISE.

ALL GLAZING TO COMPLY WITH AS-2047 AND AS-1288.

PROTECT WINDOW FRAMES AT ALL TIMES. ALLOW TO COVER AS SOON AS INSTALLED, IN CASE OF DAMAGE CAUSED DURING CONSTRUCTION.

REFER TO THE FINISHED SCHEDULE FOR ALUMINUM INFILL PANEL FINISHES.

GENERAL CEILING NOTE

ALL EXISTING CEILING TO BE RETAINED UNLESS OTHERWISE SPECIFIED. CEILING MUST BE FINISHED TO THE SCHEDULED PAINT COLOURS AS SHOWN

SECTION J REQUIREMENTS TO THE CEILING MUST BE SATISFIED TO BCA REQUIREMENTS (REFER TO SECTION J CONSULTANT'S REPORT FOR DETAILS)

LIGHTING LOCATION INDICATED IN THE RCP ARE INDICATIVE ONLY AND MUST BE CONFIRMED BY THE ELECTRICAL ENGINEER TO ENSURE SPECIFICATIONS ARE IN COMPLIANCE WITH SECTION J, RELEVANT STANDARDS & CODES

EMERGENCY LIGHTING LOCATIONS TO BE CONFIRMED BY ELECTRICAL ENGINEER PRIOR TO INSTALLATION

SECURITY & INTERCOM SYSTEMS AS SHOWN ON PLAN ARE INDICATIVE ONLY AND MUST BE DESIGNED BY A SUITABLE CONSULTANT TO ENSURE IT IS FIT FOR PURPOSE.

ALL EXISTING GPOS MUST BE REVIEWED TO ENSURE POWER IS SUITABLE FOR APPLIANCES TO BE FITTED

ANY NEW ELECTRICITY METERS, DISTRIBUTION BOARDS, DUCTS, ELECTRICAL MOTORS, ETC. TO BE ENCLOSED BY NON-COMBUSTIBLE CONSTRUCTION OR FIRE PROTECTIVE COVERING, WITH ANY OPENINGS SEALED AGAINST SMOKE SPREADING FROM THE ENCLOSURE.

GLAZING NOTE

COMPLY WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE SPECIFIED:
AS1288 GLASS IN BUILDINGS - SELECTION AND INSTALLATION.
AS/NZS 4667 - CUT TO SIZE AND PROCESSED GLASS.
AS/NZS 4667 - LAMINATED AND TOUGHENED GLASS PROCESS.

ALL NEW GLAZING MUST COMPLY WITH AS1288 – 2006.

INSTALLATION OF GLASS SO THAT:
EACH PIECE IS HELD FIRMLY IN PLACE BY PERMANENT MEANS WHICH ENABLES IT TO WITHSTAND THE NORMAL LOADINGS AND AMBIENT CONDITIONS AT ITS LOCATION WITHOUT DISTORTION OR DAMAGE TO GLASS AND GLAZING MATERIALS.

BUILDING MOVEMENTS ARE NOT TRANSFERRED TO THE GLASS; AND EXTERNAL GLAZING IS WATERTIGHT AND AIRTIGHT.

TEMPORARY MARKING USE A METHOD WHICH DOES HARM THE GLASS. REMOVE MARKING ON COMPLETION.

TOUGHENED GLASS DO NOT CUT, WORK, OR PERMANENTLY MARK AFTER TOUGHENING. USE INSTALLATION METHODS WHICH PREVENT THE GLASS MAKING DIRECT CONTACT WITH METALS OR THE NON-RESILIENT MATERIAL.

REPLACE DAMAGED GLASS AND LEAVE THE WORK CLEAN, POLISHED, FREE FROM DEFECTS AND IN GOOD CONDITION.

FOR FULL HEIGHT BASE BUILD GLAZED DOORS, PROVIDE SOLID NON TRANSPARENT CONTRASTING STRIP OF NOT LESS THAN 75MM.

ANY GLAZING THAT CAN BE MISTAKEN FOR A DOORWAY TO BE PROVIDED WITH A SOLID NON-TRANSPARENT CONTRASTING STRIP WITH A MINIMUM WIDTH OF NOT LESS THAN 75MM EXTENDING FROM A HEIGHT BETWEEN 900MM - 1000MM FOR THE FULL LENGTH OF THE GLAZE.

DOORS AND HATCHES

INSTALL DOORS SO THAT THE FRAMES:
ARE PLUMB, LEVEL, STRAIGHT AND TRUE WITHIN ACCEPTABLE BUILDING TOLERANCES; ARE ADEQUATELY FIXED OR ANCHORED TO THE BUILDING STRUCTURE; AND WILL NOT CARRY ANY BUILDING LOADS, INCLUDING LOADS CAUSED BY STRUCTURAL DEFLECTION OR SHORTENING.

PROVIDE FLASHINGS AND WEATHERINGS WHICH ARE CORROSION RESISTANT, COMPATIBLE WITH THE OTHER MATERIALS IN THE INSTALLATION, AND COATED WITH A NONSTAINING COMPOUND WHERE NECESSARY.

PROVIDE RECOMMENDED JOINTING AND POINTING MATERIALS WHICH ARE COMPATIBLE WITH EACH OTHER AND WITH THE CONTACT SURFACES AND NON-STAINING TO FINISHED SURFACES. DO NOT PROVIDE BITUMINOUS MATERIALS ON ABSORBENT SURFACES.

IF DOORS ARE TO BE INSTALLED IN WINDOW FRAMES AS PART OF A COMBINED WINDOW AND DOOR ASSEMBLY, PROVIDE A DOOR FRAME AS SPECIFIED IN THE WINDOWS SECTION FOR THE RELEVANT WINDOW TYPE, PLUS APPROPRIATE MODIFICATION AND ACCESSORIES NECESSARY FOR THE DOOR INSTALLATION.

DOOR THICKNESS (MINIMUM)
- GENERALLY: 38 MM.
- EXTERNAL DOORS AND DOORS OVER 920 MM WIDE: 40 MM.

FLUSH DOORS REQUIREMENT AS FOLLOW:
- EDGE STRIPS: MINIMUM THICKNESS 10 MM. INCREASE OVERALL THICKNESS TO AT LEAST 15 MM TO ACCOMMODATE THE FULL DEPTH OF THE REBATE IN REBATED DOORS.
- FORM REBATES TO SUIT STANDARD REBATED HARDWARE.
-CELLULAR CORE AND INTERMEDIATE RAIL CORE FLUSH DOORS
- PROVIDE ADDITIONAL FRAME MATERIAL WHERE NECESSARY TO TAKE HARDWARE, FASTENINGS AND GROOVES.
- PROVIDE A SUB FRAME OF 25 MM MINIMUM WIDTH TIMBER AROUND OPENINGS FOR LOUVRES AND GLAZING.
- MEDIUM DENSITY FIBREBOARD (MDF) INTERNAL DOORS: SOLID FLUSH DOORS FOR INTERNAL USE COMPRISING A SINGLE SHEET OF MDF BOARD WITHOUT EDGE STRIPS. PROVIDE THE SAME SURFACE FINISH TO BOTH FACES OF THE DOOR.
-DOORS TO BE FITTED WITH ACOUSTIC SEALS AS PER ACOUSTIC CONSULTANT REPORT/DETAILS.

ALUMINIUM DOOR FRAME ASSEMBLED FROM ALUMINIUM SECTIONS, INCLUDING NECESSARY ACCESSORIES SUCH AS BUFFERS, PILE STRIPS, STRIKE PLATES, FIXING TIES OR BRACKETS AND CAVITY FLASHING, WITH SUITABLE PROVISION FOR FIXING SPECIFIED HARDWARE; PRE-FINISHED WITH PROTECTIVE COATINGS, BUILT IN OR FIXED TO PREPARED OPENINGS.

BUILDER TO CHECK ALL OPENINGS ON SITE FOR ALL SIZES PRIOR TO FABRICATION.
CHECK ALL NUMBERING AND QUANTITIES AGAINST PLANS AND ELEVATIONS AND NOTIFY THE ARCHITECT SHOULD ANY DISCREPANCIES OCCUR.

ALL GAPS BETWEEN WINDOW AND DOOR FRAMES AND THE BUILDING FABRIC TO DRAUGHT PROOF SEALS TO MINIMIZE AIR INFILTRATION.

DOOR CLOSER MUST COMPLY WITH THE AUSTRALIAN STANDARD.
ALL DOORS TO HAVE BALL BEARING TYPE HINGES. DOOR CLOSER TO BE CAM ACTION.

DOORS MUST ACHIEVE ACOUSTIC RATING AS PER ACOUSTIC CONSULTANT REPORT/DETAILS.

ALL DOOR HANDLES TO BE INSTALLED 1000MM ABOVE FFL GENERALLY UNLESS OTHERWISE NOTED.

ALL DOORS TO BE PAINT FINISHED AS SPECIFIED.

GENERAL DEMOLITION NOTES

EXAMINE THE SITE CONDITIONS
THE CONTRACTOR SHALL EXAMINE CAREFULLY THE EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL ACCEPT THE CONDITION ON SITE PRIOR TO COMMENCEMENT.

DEMOLITION CONTRACTOR SHALL INCLUDE FOR FIRE SEALING EXISTING PENETRATIONS AND THE REMOVAL AND LEGAL DISPOSAL OF MATERIALS CONTAINING ASBESTOS OR SYNTHETIC MINERAL FIBRES ETC. IN ACCORDANCE WITH ALL REQUIREMENTS OF THE RELEVANT AUTHORITIES.

DEMOLITION CONTRACTOR SHALL DISCONNECT, MAKE SAFE, STRIP OUT AND REMOVE FROM SITE ALL REDUNDANT POWER CABLING FROM CIRCUIT IN THE PARTITIONS TO BE DEMOLISHED,
INCLUDING OUTLET PLATES & BACK BOXES (AS PER ELECTRICAL ENGINEER'S DOCUMENTS).

DEMOLITION CONTRACTOR SHALL ALLOW FOR DISCONNECTING, SEALING OFF, REDIRECTION, RELOCATION & MAKE SAFE ALL SERVICES ENCOUNTERED IN DEMOLITION & NOT DOCUMENTED (AS PER ELECTRICAL ENGINEER'S DOCUMENTS).

EXISTING BUILDINGS: UNTIL PERMANENT SUPPORT IS PROVIDED, PROVIDE TEMPORARY SUPPORT FOR SECTIONS OF EXISTING BUILDINGS WHICH ARE TO BE ALTERED AND WHICH NORMALLY RELY FOR SUPPORT ON WORK TO BE DEMOLISHED.

PROTECTION: UNTIL PERMANENT SUPPORT IS PROVIDED, PROVIDE TEMPORARY SUPPORT FOR SECTIONS OF EXISTING BUILDINGS WHICH ARE TO BE ALTERED AND WHICH NORMALLY RELY FOR SUPPORT ON WORK TO BE DEMOLISHED.

DEMOLITION
DEMOLITION CONTRACTOR SHALL COMPLY WITH APPLICABLE PORTIONS OF THE FOLLOWING AUSTRALIAN STANDARDS:

AS 2436 1981: GUIDE TO NOISE CONTROL AND DEMOLITION SITES
AS 2601 2001: DEMOLITION OF STRUCTURES
AS 4687 2007: TEMPORARY FENCING AND HOARDING
COMPLY ALSO WITH THE REQUIREMENTS OF APPLICABLE BUILDING REGULATIONS, STATUTORY AUTHORITY HAVING JURISDICTION, LOCAL COUNCIL.

CONTRACTORS SHALL TAKE PRECAUTIONS NECESSARY TO PREVENT FIRE. PROVIDE AND MAINTAIN ADEQUATE APPROVED FIRE FIGHTING EQUIPMENT PLACED STRATEGICALLY AND AVAILABLE FOR IMMEDIATE USE.

COMPLETION: UPON COMPLETION OF THE DEMOLITION WORKS ENSURE THAT THE SITE IS CLEAN AND SAFE AND ALL MATERIALS HAVE BEEN CLEARED AWAY AND THE SITE IS HANDED OVER READY FOR THE FOLLOWING TRADES TO TAKE POSSESION.

ALL MATERIALS TO BE DISPOSED OF VIA BINS AND/OR SKIPS TO CORRECT RECYCLING CENTRES AND TRADES WASTE LOCATIONS.

PERFORM ALL DEMOLITIONS REQUIRED IN ORDER TO CARRY OUT THE WORKS, WETHER OR NOT SUCH DEMOLITIONS ARE SHOWN IN THE DRAWINGS OR SPECIFICALLY MENTIONED HERE. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIALS, LABOUR AND EQUIPMENT FOR SUCH WORK. REMOVE ALL DEMOLISHED MATERIALS AND DEBRIS FROM SITE.

THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT FULL AND ADEQUATE SUPPORT TEMPORARY OR OTHERWISE IS PROVIDED FOR ALL EXISTING WALLS, BEAMS, COLUMNS ETC. FROM COMMENCEMENT OF DEMOLITION UNTIL SUCH TIME THE WORKS ARE SUPPORTED BY NEW STRUCTURE.

CO-ORDINATE WITH OTHER TRADES AFFECTING OR AFFECTED BY WORK OF THIS SECTION.
CO-OPERATING AS NECESSARY TO ENSURE STEADY AND SATISFACTORY PROGRESS THROUGH THE WORK.

CONTRACTORS SHALL LEAVE THE SITE IN AN ENTIRELY CLEAN CONDITION, READY FOR THE WORK OF THE FOLLOWING TRADES.

HAZARDOUS MATERIALS:
IN THE EVENT OF THE DISCOVERY OF ASBESTOS MATERIAL OR THE LIKE, WORK IS TO CEASE AND THE PROPERTY MANAGEMENT IS TO BE NOTIFIED IMMEDIATELY. WORKERS AND THE PUBLIC ARE TO BE KEPT AWAY FROM THE AREA UNTIL APPROPRIATE ACTION IS TAKEN.

ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO CONSTRUCTION. DIMENSIONS NOTED ON DRAWINGS ARE TO BE USED/ CHECKED ONSITE. DO NOT SCALE DIMENSION FROM HARD COPIES OR ELECTRONIC FORMAT (INCL. CAD & PDF)

CONTRACTORS TO CHECK ALL EXISTING PENETRATIONS AND VERIFY IF EXISTING SETOUTS AND CONSTRUCTION. ALL REDUNDANT PENETRATIONS TO BE FILLED APPROPRIATELY AND MAINTAIN MIN FRL REQUIREMENTS. ALL NEW PENETRATIONS WILL REQUIRE WRITTEN APPROVAL AND COORDINATION WITH THE LANDLORD PRIOR TO CARRYING OUT THE WORKS.

SERVICES:
BEFORE DEMOLISHING AND REMOVING PARTS OF BUILDING HAVING ELECTRICAL WIRING, GAS AND WATER PIPES, CIRCUIT OR SIMILAR ITEMS EMBEDDED IN THEM, NOTIFY THE ARCHITECT, AUTHORITIES HAVING JURISDICTION, AND MAKE SURE THAT THESE ITEMS ARE OUT OF SERVICE SO THAT THEY CAN BE REMOVED WITHOUT DANGER.

GENERAL WET AREA NOTE

WET AREAS TO BE WATERPROOFED IN ACCORDANCE WITH AS3740.

BUILDING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL CONSULTANTS DRAWINGS AND ENGINEERS DESIGNS AND DETAILS.

PROVIDE FIXING POINT NOGGINS BEHIND AL WALL MOUNTED ACCESSORIES SUCH AS TOWEL RAIL, TOILET ROLL HOLDERS, ETC.

REFER TO FIXTURES AND FITTING SCHEDULE FOR DETAILED SPECIFICATION.
REFER TO MATERIALS AND FINISHES SCHEDULE FOR DETAILED SPECIFICATION.

ACESSIBILITY NOTE

ACCESS FOR PEOPLE WITH DISABILITIES MUST BE PROVIDED IN COMPLIANCE WITH AS 1428.1.2009

BUILDER TO ENSURE THAT ACCESSIBLE FIXTURES & FITTINGS AND ACCESSORIES ARE TO BE INSTALLED IN ACCORDANCE WITH AS1428.1.2009. (DRAWINGS TO BE READ IN CONJUNCTION WITH FINISHES/ FIXTURE & FITTINGS SCHEDULE AND OTHER RELEVANT DOCUMENTS/ DRAWINGS)

ADDITIONAL COMPLIANCE NOTE

- PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH AS 2444-2001, BCA 2007, CLAUSE E1.6
- MECHANICAL VENTILATION IN ACCORDANCE WITH AS 1668.1-2015, PART E2
- EMERGENCY LIGHTING & EXIT SIGNS IN ACCORDANCE WITH AS 2293.1 2005, BCA 2007, CLAUSE E4.4, E4.5, E4.6, E4.8
- FIRE HOSE REELS IN ACCORDANCE WITH AS 2441-2005, BCA2007, CLAUSE E1.4.
- SMOKE DETECTION & ALARM SYSTEM IN ACCORDANCE WITH AS 1670-2015, BCA, PART E2.

DOOR SCHEDULE LEGEND

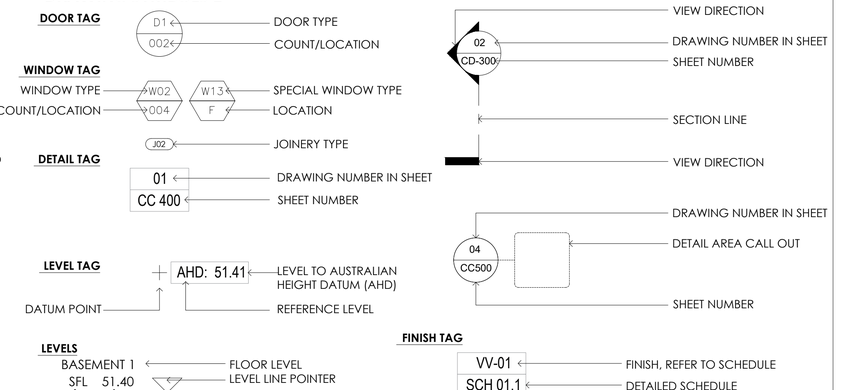
(REFER TO DOOR SCHEDULE FOR SPECIFIED FITTINGS, FIXTURES & HARDWARES.)

TM	TIMBER DOOR	PH	PUSH PLATE W/ HANDLE ON REVERSE FACE
GL	GLASS DOOR	DS	DOOR STOPPER
SD	SLIDING DOOR	C	DOOR CLOSER
CD	CAVITY SLIDER	SG	DOOR SIGN
RS	ROLLER SHUTTER W/ STANDARD LOCKSET	SV	SECURITY DOOR VIEWER
PL	PUSH PLATE W/ HANDLE ON REVERSE FACE & LOCK	GR	ALUMINIUM GRILLE
		G2	TYPE 2 ALUMINIUM GRILLE

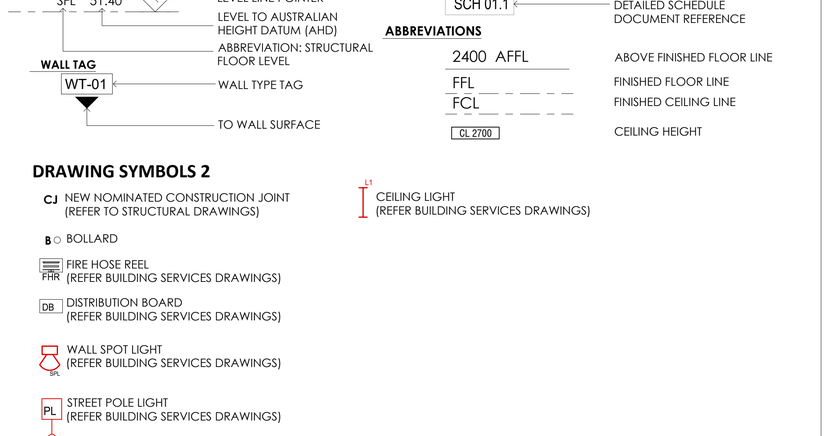
WINDOW SCHEDULE LEGEND

F	FIXED WINDOW PANEL	GL	GLASS DOOR
J	GLASS SHUTTERS	JH	GLASS DOOR HANDLE
F/M	FIXED OR MIRROR GLASS PANEL	E.FG	EXISTING FIXED GLASS

DRAWING SYMBOLS 1



DRAWING SYMBOLS 2



AMENDMENTS

1	29/08/23	70% CC Submission _Draft	WL			
2	01/09/23	70% CC Submission	WL			

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DRAWING
ARCHITECTURAL GENERAL NOTES

NOTES
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SCALE	1:200@A1 1:400@A3
PROJECT NO.	22030
CHECK	GW
DRAWING NUMBER	CC-001
REVISION	2
SHEET	A1

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ARCHITECTURAL GENERAL NOTES

STRUCTURAL STEEL WORK

ALL STRUCTURAL STEELWORK SHALL CONFORM WITH THE CURRENT EDITION OF AUSTRALIAN STANDARD AS 4100, "STEEL STRUCTURES" AND ALL RELEVANT CODES MENTIONED THEREIN AND BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF SAA MA.1.

THE WHOLE OF THE MATERIALS, METHODS, AND TECHNIQUES USED IN THE SUPPLY, FABRICATION, DELIVERY, AND ERECTION OF THE STRUCTURAL STEELWORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES.

AS1111 ISO METRIC HEXAGON COMMERCIAL BOLTS AND SCREWS.
AS1112 ISO METRIC HEXAGON NUTS, ETC.
AS1163 WELDED AND SEAMLESS STEEL HOLLOW SECTIONS FOR GENERAL STRUCTURAL PURPOSES.
AS1214 HOT-DIPPED GALVANIZED COATINGS ON THREADED FASTENERS.
AS1250 SAA STEEL STRUCTURES CODE.
AS1252 GENERAL GRADE HIGH STRENGTH STEEL BOLTS WITH ASSOCIATED NUTS AND WASHERS.
AS1511 SAA HIGH STRENGTH STRUCTURAL BOLTING CODE.
AS1538 SAA COLD-FORMED STEEL STRUCTURES CODE.
AS1554 SAA STRUCTURAL WELDING CODE.
AS1627 PREPARATION OF STEEL SURFACES.
AS1650 GALVANIZED COATINGS ON FERROUS ARTICLES.
AS3678 HOT-ROLLED STRUCTURAL STEEL PLATES, FLOOR PLATES, AND SLABS.
AS3679 HOT-ROLLED STRUCTURAL STEEL BARS AND SECTIONS.

WHEREVER A STANDARD IS REFERRED TO, IT SHALL BE THE LATEST EDITION INCLUDING ALL AMENDMENTS.

PROTECTIVE COATINGS
A) GENERAL
WITH THE EXCEPTION OF STEEL MEMBERS WHICH REQUIRE ENCASING IN CONCRETE, STEEL SURFACES ADJACENT TO CONNECTIONS REQUIRED TO BE FIELD WELDED AND CONTACT SURFACES OF HIGH STRENGTH BOLTED CONNECTIONS, ALL STRUCTURAL STEEL SURFACES SHALL HAVE A PROTECTIVE COATING APPLIED BEFORE DELIVERY TO SITE.

B) SURFACE PREPARATION
THOROUGHLY CLEAN SURFACES TO REMOVE RUST, SCALE, WELD SPLATTER, AND SLAG, OIL GREASE, PAINT, DIRT, AND OTHER CONTAMINATING MATERIALS WHICH COULD INHIBIT BONDING OF PROTECTIVE COATINGS OR CAUSE DETERIORATION IN THE STEEL AND/OR COATINGS.

PERFORM CLEANING TO AS 1627 PARTS 1 TO 7 (INCLUSIVE) AND AS SPECIFIED FOR THE PARTICULAR COATING SYSTEM USED.

C) SYSTEM 1 (ZINC PHOSPHATE PRIMER)
APPLY TO MEMBERS NOT EXPOSED TO THE EXTERNAL ELEMENTS A PRIMING PAINT OF MICACEOUS IRON OXIDE PIGMENT AND A BINDER BASED ON MODIFIED CHLORINATED RUBBER OR URETHANE TO AN EVEN DRY FILM THICKNESS NOT LESS THAN 75 MICRONS.

D) SYSTEM 2 (INORGANIC ZINC SILICATE COATING: COLD GALVANIZING)
APPLY TO AREAS WHERE THE ORIGINAL PROTECTIVE COATING HAS BEEN DAMAGED DUE TO FIELD WELDING OR IN THE PROCESS OF ERECTION, A TWO-PACK SELF CURING INORGANIC ZINC SILICATE MATERIAL IN 1 APPLICATION PROVIDING A DRY FILM THICKNESS NOT LESS THAN 75 MICRONS AND NOT LESS THAN 85% METALLIC ZINC IN THE DRY FILM.

E) SYSTEM 3 (HOT DIP GALVANIZING)
APPLY TO MEMBERS AND BOLTS EXPOSED EXTERNALLY COMMERCIALLY PURE ZINC BY THE HOT DIP PROCESS TO PROVIDE A SMOOTH, UNIFORM, CONTINUOUS COATING OVER ALL SURFACES.

WITH THE EXCEPTION OF BOLT AND NUT THREAD, THE WEIGHT OF ZINC COATING SHALL AVERAGE NOT LESS THAN 0.60 KG/M² OF STEEL SURFACE AND IN NO AREA SHALL THE WEIGHT BE LESS THAN 0.55 KG/M².

RESTORE MEMBERS WHICH BECOME DISTORTED DURING THE HOT DIP PROCESS SHALL BE TO THE REQUIRED SHAPES IN A MANNER WHICH DOES NOT DAMAGE THE ZINC COATING.

C) FIRE PROTECTION
ALL EXPOSED STEEL STRUCTURE TO BE TREATED WITH SPRAY VERMICULITE OR EQUIVALENT TO ACHIEVES FRL 240 FIRE RATING.

CONCRETE (PRECAST)

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, AS 3850.

THE CONTRACTOR SHALL TRANSPORT, ERECT ON SITE, AND PROP THE PANELS USING IF NOT SPECIFY, A MINIMUM OF TWO PROPS PER PANEL.

PROPS SHALL BE USED IN ACCORDANCE WITH THE SUPPLIER OF MANUFACTURERS RECOMMENDATIONS AND LOAD LIMITS AND SHALL BE FIXED TO FOOTINGS AS PER ENGINEER DESIGN.

ALL JOINTS SHALL BE PROPERLY CAULKED AND SEALED AS REQUIRED AND FIRE RATED WHERE NECESSARY.

LIFTING FIXINGS SHALL NOT BE LOCATED ON A FACE WHICH IS EXPOSED TO VIEW WHEN THE PANEL IS ITS FINAL ERECTED POSITION.

RECESSES FOR LIFTING AND OTHER FIXINGS SHALL BE GROUTED AND MADE GOOD TO THE REQUIRED SURFACE FINISH AND COVER.

ALL PRECAST PANEL CORBELS SHALL BE CAST MONOLITHICALLY WITH THE PANEL

GROUT SHALL BE NON-SHRINK, AND HAVE A 28 DAY CHARACTERISTIC STRENGTH OF 40MPA

THE BUILDER SHALL REFER TO ALL RELEVANT DRAWINGS TO ENSURE THAT ALL OPENINGS, RECESSES, FIXINGS AND FITTINGS SPECIFIED ON THE DRAWINGS ARE INCORPORATED INTO THE PRECAST PANELS.

HIGH STRENGTH PLASTIC PACKERS CAN BE USED FOR LEVELLING UNDER SUPPORT POINTS OF LOAD BEARING PRECAST PANELS AND MAY BE LEFT PERMANENTLY PROVIDED THEY ARE CENTRALLY LOCATED

BETWEEN THE FACES OF THE PANELS, HAVE A MINIMUM OF 50MM GROUT COVER AND A BEARING PRESSURE LESS THAN 7MPA. PACKERS USED BETWEEN NON-LOAD BEARING PANELS SHALL BE REMOVED IMMEDIATELY FOLLOWING THE INSTALLATION OF THE PANELS.

WHERE PACKERS ARE USED TO TAKE UP TOLERANCES, THE THICKNESS SHALL BE SUCH THAT NOT MORE THAN THREE PACKERS ARE USED.

THE GROUT BED UNDER A LOAD BEARING PANEL MUST ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPA BEFORE THE PANEL IS LOADED.

BUILDER TO ENSURE THAT ALL PRECAST CONCRETE IS INSTALLED AS PER VICTORIAN WORKCOVER INDUSTRY STANDARD REQUIREMENTS. BUILDER TO ENSURE ERECTION ENGINEER IS ENGAGED. BUILDER TO ENSURE THAT 'ENGINEER'S CERTIFICATE OF COMPLIANCE" IS OBTAINED PRIOR TO ERECTION OF ANY PRECAST. CERTIFICATE TO BE OBTAINED FROM ERECTION ENGINEER.

CONCRETE FORMWORK

THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE CONSTRUCTION AND ERECTION OF ALL CONCRETE FORMWORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND THE ASSOCIATED CONTRACT DOCUMENTS INCLUDING SERVICES, CIVIL AND STRUCTURAL ENGINEER'S DRAWINGS AND SPECIFICATIONS

COMPLY WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE SPECIFIED:
FORMWORK DESIGN AND CONSTRUCTION: TO AS 3610 AND AS 3610.1.
PLYWOOD FORMWORK: TO AS 6669.
PROFILED STEEL SHEETING, INCLUDING SHEAR CONNECTORS: TO AS 2327.1.
REINFORCED CONCRETE CONSTRUCTION: TO AS 3600.
SURFACE FINISH CLASS: USE THE APPLICABLE CLASS FROM AS 3610 TABLE 3.3.1.

CONCRETE REINFORCEMENT

THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE SUPPLY, FABRICATION, SURFACE TREATMENT, AND ERECTION OF ALL CONCRETE REINFORCEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND THE ASSOCIATED CONTRACT DOCUMENTS INCLUDING CIVIL AND STRUCTURAL ENGINEER'S DRAWINGS AND SPECIFICATIONS.

COMPLY WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE SPECIFIED:
REINFORCEMENT: TO AS/NZS 4671

CONCRETE INSITU

THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE SUPPLY, FABRICATION, SURFACE TREATMENT AND ERECTION OF ALL INSITU CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND THE ASSOCIATED CONTRACT DOCUMENTS INCLUDING CIVIL AND STRUCTURAL ENGINEER'S DRAWINGS AND SPECIFICATIONS.

COMPLY WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE SPECIFIED:
MATERIALS AND CONSTRUCTION: To AS 3600.
CONCRETE: To AS 1379.
CONCRETE STRUCTURES FOR RETAINING LIQUIDS: To AS 3735.

CONCRETE FINISHES

THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE SUPPLY, FABRICATION, SURFACE TREATMENT AND ERECTION OF ALL CONCRETE FINISHES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND THE ASSOCIATED CONTRACT DOCUMENTS INCLUDING CIVIL AND STRUCTURAL ENGINEER'S DRAWINGS AND SPECIFICATIONS.

COMPLY WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE SPECIFIED:
FORMED SURFACES: TO AS 3610.1
CLASSIFICATION: TO AS 4586

WATERPROOFING (EXTERNAL TANKING)

INTERNAL GENERAL: PROVIDE AND INSTALL FOSROC OR APPROVED EQUIVALENT WATERPROOFING MEMBRANE SYSTEMS AND COMPOUNDS FOR THE COMPLETE PROTECTION OF TRAFFICABLE SURFACES AND ACCESSORIES, INCLUDING MEMBRANES UNDER OR PARTLY UNDER CERAMIC TILES.

REQUIREMENT: THE SYSTEM, WHICH INCLUDES MEMBRANES, JOINTS, UPSTANDS, FLANGES, CAPS, SEALS, COLLARS, INTERLAYERS, REINFORCING MATS, LIQUIDS, AND THE LIKE, SHALL, WHEN INSTALLED AS A COMPLETE SYSTEM, PROVIDE AN IMPERVIOUS BARRIER TO WATER AND MOISTURE TRANSMISSION AS FOLLOWS:
- FROM OUTSIDE THE BUILDING TO INSIDE.
- FROM ONE SPACE TO ANOTHER ADJOINING SPACE.
- FROM ONE LEVEL TO THE LEVEL BELOW.
- FROM INSIDE A PLANTER BOX TO OUTSIDE.
- FROM IRRIGATED PLANTING AREAS TO ANY ADJOINING SPACE OR SPACES BELOW.
- THROUGH SEALING AROUND PIPEWORK, BOLTS, CABLES, CONDUITS, PENETRATIONS, AND THE LIKE.
- OBVIATE THE APPEARANCE OF EFFLORESCENCE OR OTHER MOISTURE INDUCED EFFECT ON THE OPPOSITE SIDE OF THE ELEMENT TO WHICH THE MEMBRANE IS ATTACHED.

APPLICATION: THE WATERPROOFING MEMBRANE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S PRODUCT DATA SHEET AND SPECIFICATIONS.

MEMBRANES:
GENERAL LOCATIONS:
BASE MEMBRANE: FOSROC PROOFEX TORCHSEAL A600
TOP MEMBRANE: FOSROC PROOFEX TORCHSEAL A825

BALCONIES AND TERRACES:
BASE MEMBRANE: FOSROC PROOFEX TORCHSEAL A600
TOP MEMBRANE: FOSROC PROOFEX TORCHSEAL A800

LANDSCAPED AREAS AND PLANTER BOXES:
BASE MEMBRANE FOSROC PROOFEX TORCHSEAL A600
TOP MEMBRANE FOSROC PROOFEX TORCHSEAL A700

DRAINAGE CELL SHEETS:
PRODUCT: FOSROC SHEETDRAIN 81
DESCRIPTION: DIMPLED PROTECTION AND DRAINAGE MEMBRANE IN HIGH-DENSITY, EXTRUDED POLYETHYLENE WITH CONTINUOUS FILAMENT YARN.

PROTECTION:
PROTECTION BOARD: FOSROC PROOFEX PROTECTION BOARD PP
DESCRIPTION: LIGHTWEIGHT POLYPROPYLENE, IMPACT PROTECTION SHEET FOR MEMBRANES.

COMPLY WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE SPECIFIED:
AS 1884 FLOOR COVERINGS - RESILIENT SHEET AND TILES - INSTALLATION PRACTICES
AS/NZS 3500 PLUMBING AND DRAINAGE
AS/NZS 3500.3 STORMWATER DRAINAGE
AS/NZS 4020 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER
AS 4654 WATERPROOFING MEMBRANES FOR EXTERNAL ABOVE-GROUND USE
AS 4654.1 MATERIALS
AS 4654.2 DESIGN AND INSTALLATION

EXECUTION:
GENERAL: PREPARE SUBSTRATES AS FOLLOWS:
- FILL ALL CRACKS IN SUBSTRATES WIDER THAN 1.5 MM WITH A FILLER COMPATIBLE WITH THE MEMBRANE SYSTEM.
- FILL VOIDS AND HOLLOWS IN CONCRETE SUBSTRATES WITH A CONCRETE MIX NOT STRONGER THAN THE SUBSTRATE.
- REMOVE PROJECTIONS.
- REMOVE DELETERIOUS AND LOOSE MATERIAL.
- LEAVE THE SURFACE FREE OF CONTAMINANTS, CLEAN AND DUST FREE.
- CONCRETE SUBSTRATES: CURE FOR MORE THAN 28 DAYS.

SURFACE PREPARATION: ALL SURFACES TO WHICH THE BASE SHEET IS TO BE APPLIED MUST BE SMOOTH, FREE FROM CONTAMINANTS AND LOOSE MATERIAL. ROUGH CONCRETE MUST BE FAIRED UP BEFORE COMMENCING APPLICATION.

PRIMING MAY BE REQUIRED FOR SOME SUBSTRATES - REFER TO THE BASE SHEET MANUFACTURERS PRODUCT DATA SHEET.

EXISTING MEMBRANES SHALL BE CLEAN. ALL BLISTERS AND DEFECTS IN THE OLD MEMBRANE MUST BE CUT OUT AND REPAIRED AS REQUIRED TO PROVIDE A GOOD SOUND SUBSTRATE TO WHICH THE NEW MEMBRANE SYSTEM MAY BE APPLIED.

MOISTURE CONTENT:
REQUIREMENT: VERIFY THAT THE MOISTURE CONTENT OF THE SUBSTRATE IS COMPATIBLE WITH THE WATER VAPOUR TRANSMISSION RATE OF THE MEMBRANE SYSTEM BY TESTING TO AS 1884 APPENDIX A.

FALLS:
REQUIREMENT: VERIFY THAT FALLS IN SUBSTRATES ARE GREATER THAN 1:80.

JOINTS AND FILLETS:
EXTERNAL CORNERS: ROUND OR ARRIS EDGES.

CONTROL JOINTS: PREPARE ALL SUBSTRATE JOINTS TO SUIT THE MEMBRANE SYSTEM.

PRIMING:
COMPATIBILITY: IF REQUIRED, PRIME THE SUBSTRATES WITH COMPATIBLE PRIMERS FOR ADHESION OF THE MEMBRANE SYSTEM.

WATERPROOFING (WET AREA)

THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ALL WATERPROOFING IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND THE ASSOCIATED CONTRACT DOCUMENTS.

PERFORMANCE REQUIREMENTS:
- GRADE TO FLOOR WASTES, TO DISPOSE OF WATER WITHOUT PONDING.
- PREVENT MOISTURE ENTERING THE SUBSTRATE OR ADJACENT AREAS.

COMPLY WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE SPECIFIED:
AS/NZS 4858:2004 WET AREA MEMBRANE

3.01 APPLICATION

PROTECTION:
GENERAL: PROTECT MEMBRANE FROM DAMAGE DURING INSTALLATION AND FOR THE PERIOD AFTER INSTALLATION UNTIL THE MEMBRANE ACHIEVES ITS SERVICE CHARACTERISTICS THAT RESIST DAMAGE.

EXTENT OF WATERPROOFING:

WATERPROOF OR WATER-RESISTANT SURFACES: TO THE REQUIREMENTS OF BCA F1.7.

SHEET MEMBRANE JOINTS:

BITUMINOUS SHEET MEMBRANES:
- SIDE LAPS AT LEAST 75 MM.
- END LAPS AT LEAST 100 MM.

SYNTHETIC RUBBER MEMBRANES:
- FACTORY-VULCANIZED LAPS AT LEAST 40 MM.
- FIELD SIDE LAPS AT LEAST 50 MM FOR SIDE LAPS.
- FIELD END-LAPS AT LEAST 100 MM FOR END LAPS.

PVC MEMBRANES:
- FACTORY WELDED LAPS AT LEAST 30 MM.
- FIELD-WELDED LAPS AT LEAST 75 MM.

VERTICAL MEMBRANE TERMINATIONS:

UPSTANDS: AT LEAST 150 MM ABOVE THE FINISHED TILE LEVEL OF THE FLOOR OR 25 MM ABOVE THE MAXIMUM RETAINED WATER LEVEL, WHICHEVER IS THE GREATER.

ANCHORING: SECURE SHEET MEMBRANES ALONG THE TOP EDGE.

EDGE PROTECTION: PROTECT EDGES OF THE MEMBRANE.

FLASHINGS:

JUNCTIONS BETWEEN WATERPROOF SURFACES: PROVIDE A BOND BREAKER AT INTERNAL CORNERS BEHIND FLASHINGS.

JUNCTIONS BETWEEN WATERPROOF SURFACES AND OTHER SURFACES: PROVIDE A BEAD OF SEALANT AT THE FOLLOWING JUNCTIONS:
- WATERPROOF AND WATER-RESISTANT SURFACES.
- WATER RESISTANT AND WATER-RESISTANT SURFACES.
- WATER RESISTANT AND NON-WATER-RESISTANT SURFACES.

PERIMETER FLASHINGS: PROVIDE CONTINUOUS FLASHINGS TO THE FULL PERIMETER OF WATERPROOF AREAS AT WALL/FLOOR JUNCTIONS AND TO WATER STOP ANGLES.

VERTICAL FLASHINGS: PROVIDE VERTICAL CORNER FLASHINGS CONTINUOUS ACROSS WALL/WALL JUNCTIONS TO AT LEAST 1800 MM ABOVE FINISHED FLOOR LEVEL.

VERTICAL LIQUID APPLIED FLASHINGS:
- RETURN LEGS AT LEAST 40 MM ON EACH WALL.
- OVERLAP THE VERTICAL TERMINATION OF THE FLOOR WATERPROOFING MEMBRANE AT LEAST 20 MM.

VERTICAL SHEET FLASHINGS:
- RETURN LEGS AT LEAST 50 MM ON EACH WALL.
- OVERLAP SHOWER TRAY UPSTANDS AT LEAST 50 MM.
- DO NOT PENETRATE FLASHING WITH WALL LINING FASTENERS.

REINFORCEMENT: AT COVES, CORNERS AND WALL/FLOOR JUNCTIONS WITH GAPS GREATER THAN 3 MM REINFORCE LIQUID APPLIED MEMBRANES WITH REINFORCEMENT FABRIC TAPE RECOMMENDED BY THE MEMBRANE MANUFACTURER. FOLD THE TAPE IN HALF LENGTHWAYS AND IMBED IT IN THE FIRST FLASHING COAT OF MEMBRANE WITH ONE HALF OF THE TAPE ON EACH SIDE OF THE CORNER OR JOINT. APPLY A SECOND COAT OF LIQUID MEMBRANE TO SEAL THE FABRIC.

DOOR JAMBS AND ARCHITRAVES:

REQUIREMENT: IF THE BOTTOM OF DOOR JAMBS AND ARCHITRAVES DO NOT FINISH ABOVE THE FLOOR TILING, WATERPROOF THEIR SURFACES BELOW TILE LEVEL TO PROVIDE A CONTINUOUS SEAL BETWEEN THE PERIMETER FLASHING TO THE WALL/FLOOR JUNCTION AND THE WATER STOP ANGLE.

DRAINAGE CONNECTIONS:

FLOOR WASTES: PROVIDE FLOOR WASTES OF SUFFICIENT HEIGHT TO ACCOMMODATE THE THICKNESS OF FLOOR FINISHES AND BEDDING AT THE OUTLET POSITION. POSITION DRAINAGE FLANGE TO DRAIN AT MEMBRANE LEVEL. TURN MEMBRANE DOWN 50 MM MINIMUM INTO THE FLOOR WASTE DRAINAGE FLANGES AND ADHERE TO FORM A WATERPROOF CONNECTION.

PREFORMED DRAINAGE CHANNELS WITH CONTINUOUS DRAINAGE FLANGES: PROVIDE A CONTINUOUS WATERPROOF CONNECTION BETWEEN THE MEMBRANE AND THE CHANNEL.

WITHOUT DRAINAGE FLANGES: PROVIDE CONTINUOUS WATERPROOFING UNDER THE CHANNEL AND TERMINATE THE MEMBRANE AT A FLOOR WASTE WITH A RECESSED DRAINAGE FLANGE.

AUTOCLAVED AERATED CONCRETE HOBS: DO NOT USE FOR EXTERNAL MEMBRANE SYSTEMS. PRIME BEFORE APPLYING THE MEMBRANE.

INTERNAL MEMBRANES: EXTEND MEMBRANE OVER THE HOB AND INTO THE ROOM AT LEAST 50 MM.

ENCLOSED HOBLESS SHOWERS WITH FRAMED SHOWER SCREENS:

TAPS AND SPOUTS: WATERPROOF PENETRATIONS FOR TAPS AND SPOUTS WITH PROPRIETARY FLANGE SYSTEMS OR A SEALANT.

PROVISION FOR SERVICING: INSTALL TAPS SO TAP WASHERS OR CERAMIC DISCS CAN BE SERVICED WITHOUT DAMAGING THE WATERPROOFING SEAL.

CURING OF LIQUID APPLIED SYSTEMS TO THE MANUFACTURER'S INSTRUCTIONS.

OVERLAYING FINISHES ON MEMBRANES TO PROTECT WATERPROOF MEMBRANES WITH COMPATIBLE WATER-RESISTANT SURFACE MATERIALS THAT DO NOT CAUSE DAMAGE TO THE MEMBRANE.

SUITABLE MATERIALS: CONFORM TO AS 3740.

BONDED OR PARTIALLY BONDED SYSTEMS: IF THE TOPPING OR BEDDING MORTAR IS REQUIRED TO BE BONDED TO THE MEMBRANE, PROVIDE SUFFICIENT CONTROL JOINTS IN THE TOPPING OR BEDDING MORTAR TO REDUCE THE MOVEMENT OVER THE MEMBRANE.

AMENDMENTS

1	29/08/23	70% CC Submission _Draft	WL			
2	01/09/23	70% CC Submission	WL			

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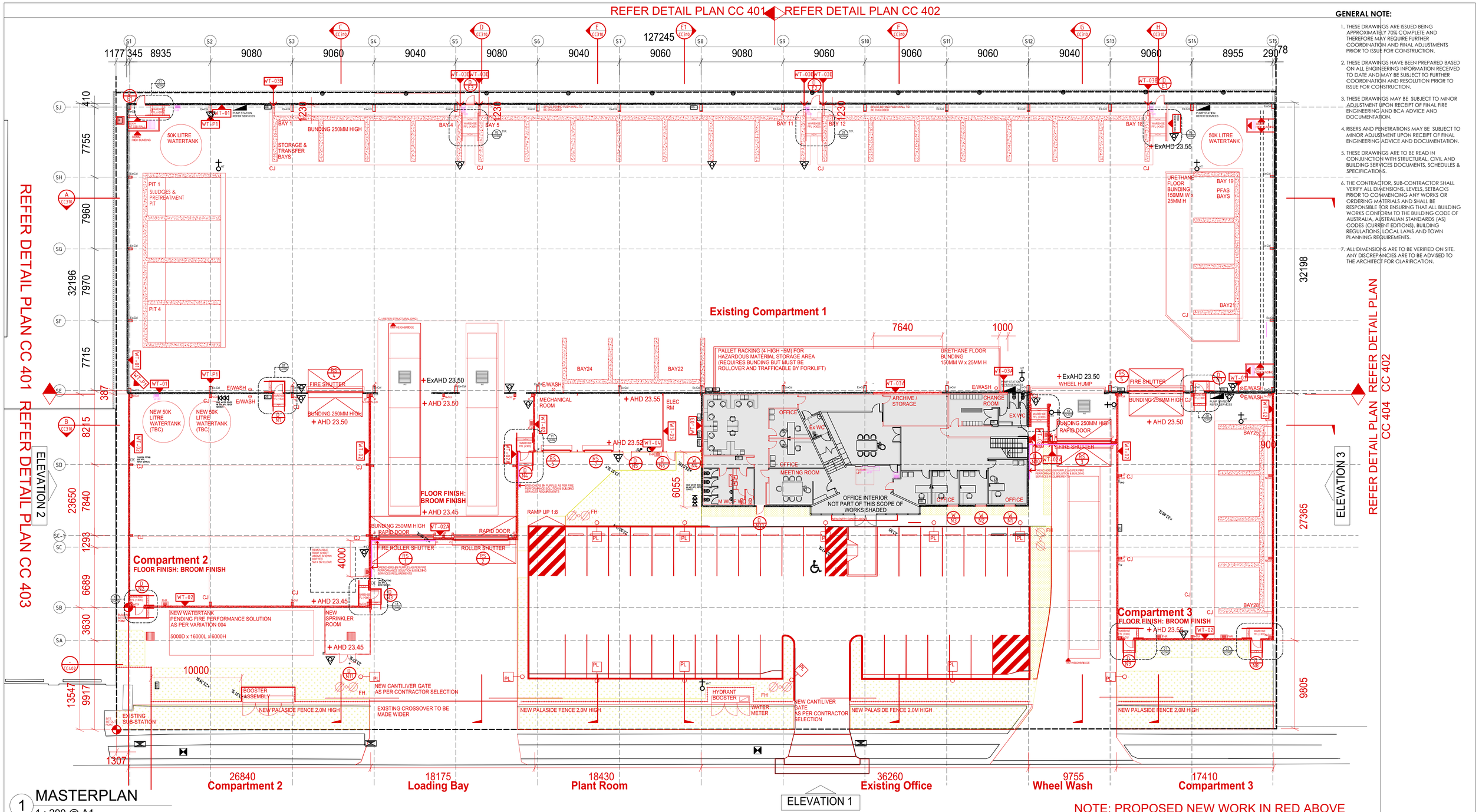
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
ARCHITECTURAL GENERAL NOTES

NOTES
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Do not scale drawings, use figured dimensions only. Any discrepancies must be reported to the Architect for clarification. Drawings shall not be used for construction purposes until issued by Iwolff annotated as "For Construction".

DATE 01/09/2023
DRAWN WL
SCALE 1:200@A1 1:400@A3
PROJECT NO. 22030
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REVISION 2
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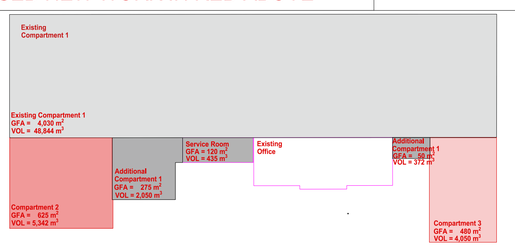
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1 MASTERPLAN
1 : 200 @ A1

NOTE: PROPOSED NEW WORK IN RED ABOVE

2 FIRE COMPARTMENT PLAN
1 : 200 @ A1



GENERAL NOTE:

1. THESE DRAWINGS ARE ISSUED BEING APPROXIMATELY 70% COMPLETE AND THEREFORE MAY REQUIRE FURTHER COORDINATION AND FINAL ADJUSTMENTS PRIOR TO ISSUE FOR CONSTRUCTION.
2. THESE DRAWINGS HAVE BEEN PREPARED BASED ON ALL ENGINEERING INFORMATION RECEIVED TO DATE AND MAY BE SUBJECT TO FURTHER COORDINATION AND RESOLUTION PRIOR TO ISSUE FOR CONSTRUCTION.
3. THESE DRAWINGS MAY BE SUBJECT TO MINOR ADJUSTMENT UPON RECEIPT OF FINAL FIRE ENGINEERING AND BCA ADVICE AND DOCUMENTATION.
4. RISERS AND PENETRATIONS MAY BE SUBJECT TO MINOR ADJUSTMENT UPON RECEIPT OF FINAL ENGINEERING ADVICE AND DOCUMENTATION.
5. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL, CIVIL AND BUILDING SERVICES DOCUMENTS, SCHEDULES & SPECIFICATIONS.
6. THE CONTRACTOR, SUB-CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, SETBACKS PRIOR TO COMMENCING ANY WORKS OR ORDERING MATERIALS AND SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BUILDING WORKS CONFORM TO THE BUILDING CODE OF AUSTRALIA, AUSTRALIAN STANDARDS (AS) CODES (CURRENT EDITIONS), BUILDING REGULATIONS, LOCAL LAWS AND TOWN PLANNING REQUIREMENTS.
7. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE. ANY DISCREPANCIES ARE TO BE ADVISED TO THE ARCHITECT FOR CLARIFICATION.

AMENDMENTS

A	12/05/23	Drawing progress update	WL	1	29/08/23	70% CC Submission _Draft	WL
B	19/05/23	Issue for Swept Path analysis	WL	2	01/09/23	70% CC Submission	WL
C	31/05/23	Progress meeting discussion	WL				
D	16/06/23	CC stage plan update	WL				
E	03/07/23	CC stage meeting discussion	WL				
F	21/07/23	CC progress coordination	WL				
G	28/07/23	CC progress coordination	WL				
H	22/08/23	CC progress coordination	WL				

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DRAWING
MASTERPLAN

NOTES
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DATE	01/09/2023
DRAWN	WL
SCALE	1:200@A1 1:400@A3
PROJECT NO.	22030
CHECK	GW
DRAWING NUMBER	CC-100
REVISION	2
SHEET	A1

CAD Directory: Z:\22_Projects\22030\22030_9 Whyalla Pl, Prestons, NSW\2.0_Drawings\01_CADDS_CD\22030_Whyalla_CC_100

1 EXISTING SITE PLAN (SURVEY PLAN)

1 : 200 @ A1

DP 1209738 9

104 DP 866530

103 DP 866530 9078m²

SP 57021

SP 97773

TWO STOREY CONCRETE WAREHOUSE No.5 (METAL ROOF)

TWO STOREY CONCRETE WAREHOUSE No.9 (METAL ROOF) GROUND FLOOR LEVEL: 19.61 FIRST FLOOR LEVEL: 23.58

ALL EXISTING SLAB CUT OUT ALDIMENSION TO BE VERIFY ON SITE AND READ IN-CONJUNCTION WITH STRUCTURAL & CIVIL ENGINEER DRAWINGS

EXISTING EYEWASH STATION TO BE REPLACED & RELOCATED

EXISTING DOOR OPENING TO BE MADE HIGHER TO BY 300MM TO ALLOW FOR NEW RAISED PLATFORM BELOW.

EXISTING PRECAST CONCRETE WALL TO BE CUT AND DEMOLISED TO UNDERSIDE OF NEW ROLLER SHUTTER OPENINGS

EXISTING ROLLER SHUTTER TO BE REPLACED

EXISTING STORM WATER GRATE AND UNDERGROUND PIPES TO BE CAPPED AND SEALED OR RE-ROUTED AS PER CIVIL AND BUILDING SERVICES DRAWINGS

EXISTING OFFICE TO BE DEMOLITION AND REMOVAL WALL OPENNING TO BE INFILL AS PER WALL TYPE SCHEDULE.

EXISTING PRECAST CONCRETE WALL TO BE CUT SM ABOVE FFL

EXISTING ROLLER SHUTTER TO BE REMOVED

EXISTING PRECAST CONCRETE WALL TO BE CUT AND DEMOLISED FROM FROM TO FLOOR TO UNDERSIDE OF NEW ROLLER SHUTTER OPENINGS

EXISTING ROLLARDS TO BE REMOVED

EXISTING ENTRY CANOPY TO BE DEMOLISHED

EXISTING UMB AREA TO BE DEMOLISHED.

EXISTING GLAZING & PRECAST WALL TO BE DEMOLISH & REMOVED

EXISTING METAL TANK TO BE DEMOLISHED

EXISTING METAL SHIPPING CONTAINERS TO BE REMOVED

EXISTING FIRE HOUSE TO BE DEMOLISHED

EXISTING CONCRETE GROUND TO BE DEMOLISHED FOR WARESHOUS EXTENSION CONSTRUCTION

EXISTING KERB TO BE DEMOLISHED TO MAKE WAY FOR NEW DRIVEWAY CONSTRUCTION

EXISTING FENCE TO BE CUT AND MAKE GOOD

EXISTING BIN TO BE RELOCATED

EXISTING STACK OF PALLETS TO BE REMOVED

EXISTING SERVICES OF FENCE TO BE RELOCATED

EXISTING VEGETATION TO BE REMOVED

EXISTING FENCE TO BE CUT & DEMOLISHED FOR NEW CROSS OVER CONSTRUCTION AND GATE

EXISTING COLOURBOND FENCE TO BE REPLACED

NEW WALL OPENING REFER ELEVATIONS

NEW WALL OPENINGS REFER ELEVATIONS

EXISTING LANDSCAPE AREA TO BE DEMOLISHED TO MAKE WAY FOR NEW DRIVEWAY CONSTRUCTION

EXISTING SLIDING GATE TO BE REMOVED AND REPLACED

ANY DAMAGES TO EXISTING LAWN TO MAKE GOOD

LOCATION OF WATER SERVICE TAKEN FROM DIAL BEFORE YOU DIG

LOCATION OF TELECOMMUNICATIONS LINE TAKEN FROM DIAL BEFORE YOU DIG

LOCATION OF SEWER LINE TAKEN FROM DIAL BEFORE YOU DIG

BENCHMARK
NAIL IN KERB
RL 23.09 AHD

CONTRACTOR TO PREPARE BOUNDARY FOR NEW FENCE AND CANTILEVER GATES. THE WORKS TO INCLUDE BUT NOT LIMITED TO THE DEMOLITION AND REMOVAL OF EXISTING FENCE, GATES & CONCRETE PILES. ANY EXISTING SERVICES AFFECTED BY THIS WORKS TO BE RELOCATED AND RE-ROUTED AS PER BUILDING SERVICES DRAWINGS

CONTRACTOR PREPARE GROUND CONDITION FOR NEW BUILDING STRUCTURE (COMPARTMENT 2, 3, WHEEL WASH, LOADING AREA,ETC) ABOVE. THE WORK TO INCLUDE BUT NOT LIMITED TO THE DEMOLITION AND REMOVAL OF ANY EXISTING CONCRETE SLAB & FOOTINGS, ON GROUND FIXED & REMOVABLE STRUCTURE, TEMPORARY CONTAINERS. ANY SUBSOIL SERVICES TO BE RE-ROUTED AS PER CIVIL AND BUILDING SERVICES REQUIREMENTS.

CONTRACTOR PREPARE GROUND CONDITION FOR NEW ROADS, DRIVEWAY, PARKING PEDESTRIAN PATHS & EXTERNAL WEIGHBRIDGE. THE WORK TO INCLUDE BUT NOT LIMITED TO THE DEMOLITION AND REMOVAL OF ANY EXISTING CONCRETE SLAB & FOOTINGS, ON GROUND FIXED & REMOVABLE STRUCTURE, TEMPORARY CONTAINERS. ANY SUBSOIL SERVICES TO BE RE-ROUTED AS PER CIVIL AND BUILDING SERVICES REQUIREMENTS.

CONTRACTOR TO PREPARE GROUND CONDITION NEW SOIL PIT, PUSH WALLS, WEIGHBRIDGES. THE WORK TO INCLUDE BUT NOT LIMITED TO CUT, DEMOLISH AND REMOVAL OF ANY EXISTING CONCRETE SLAB & FOOTINGS, ON GROUND FIXED & REMOVABLE STRUCTURE, TEMPORARY CONTAINERS. ANY SUBSOIL SERVICES TO BE RE-ROUTED AS PER CIVIL AND BUILDING SERVICES REQUIREMENTS.

CONTRACTOR TO CUT, DEMOLISH AND REMOVAL EXISTING CONCRETE PANELS, STEEL WORKS, FIXTURES AND GATES, FENCE, KERBS CONCRETE SLAB, ETC AS NOTED ON PLAN.

GENERAL NOTE:

1. THESE DRAWINGS ARE ISSUED BEING APPROXIMATELY 70% COMPLETE AND THEREFORE MAY REQUIRE FURTHER COORDINATION AND FINAL ADJUSTMENTS PRIOR TO ISSUE FOR CONSTRUCTION.
2. THESE DRAWINGS HAVE BEEN PREPARED BASED ON ALL ENGINEERING INFORMATION RECEIVED TO DATE AND MAY BE SUBJECT TO FURTHER COORDINATION AND RESOLUTION PRIOR TO ISSUE FOR CONSTRUCTION.
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7. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE. ANY DISCREPANCIES ARE TO BE ADVISED TO THE ARCHITECT FOR CLARIFICATION.

AMENDMENTS							
1	29/08/23	70% CC Submission _Draft		WL			
2	01/09/23	70% CC Submission		WL			

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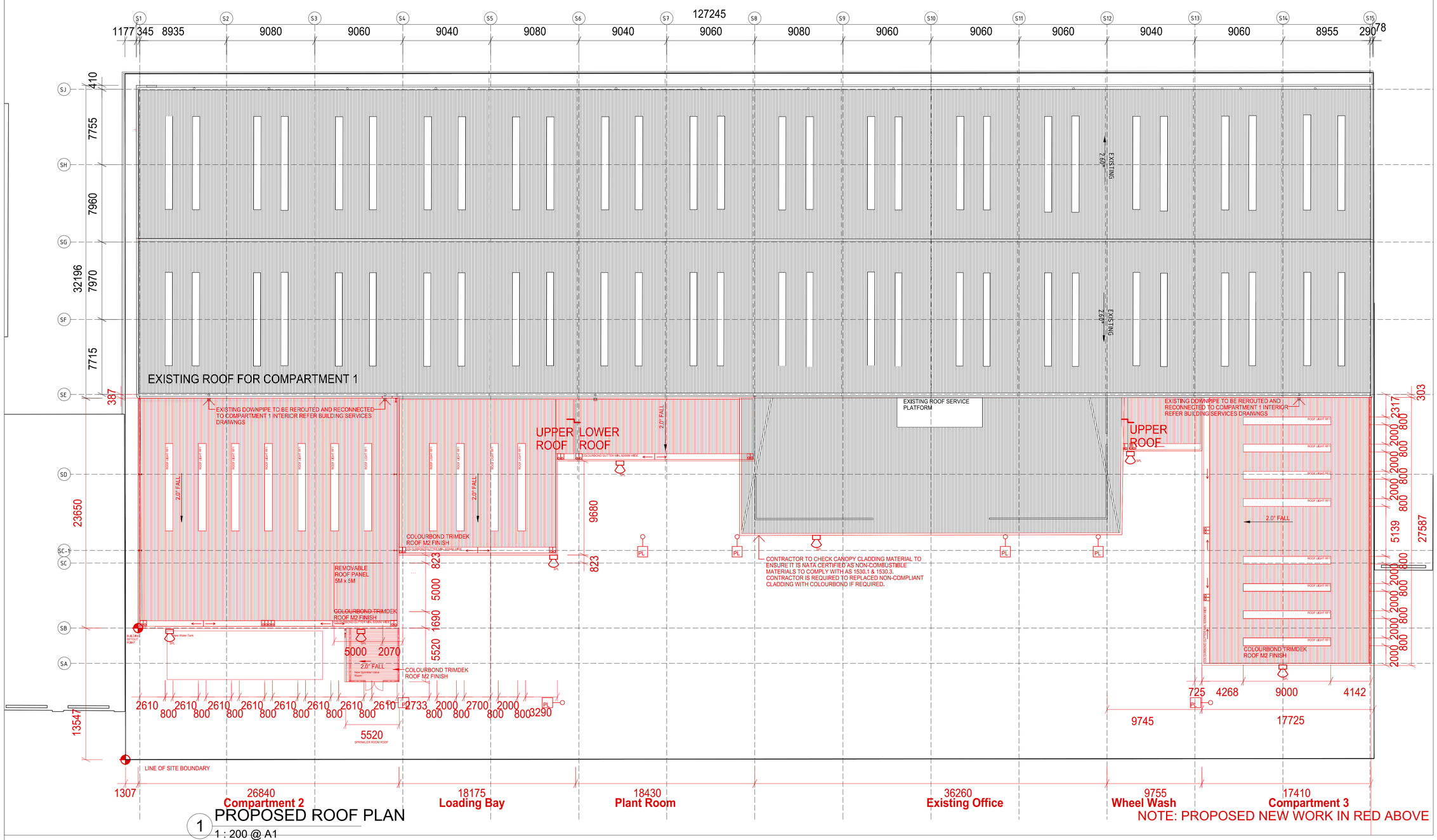
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
EXISTING SITE PLAN & DEMOLITION PLAN

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PROJECT NO.	22030
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DRAWING NUMBER:	CC-201
REVISION	2
SHEET	A3

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PROPOSED ROOF PLAN

1 : 200 @ A1

NOTE: PROPOSED NEW WORK IN RED ABOVE

GENERAL NOTE:

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7. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE. ANY DISCREPANCIES ARE TO BE ADVISED TO THE ARCHITECT FOR CLARIFICATION.

AMENDMENTS

A	12/05/23	Drawing progress update	WL	2	01/09/23	70% CC Submission	WL
B	31/05/23	Progress meeting discussion	WL				
C	21/07/23	CC progress coordination	WL				
D	28/07/23	CC progress coordination	WL				
E	08/08/23	Roof Coordination	WL				
F	22/08/23	CC progress coordination	WL				
G	23/08/23	CC progress coordination	WL				
I	29/08/23	70% CC Submission _Draft	WL				

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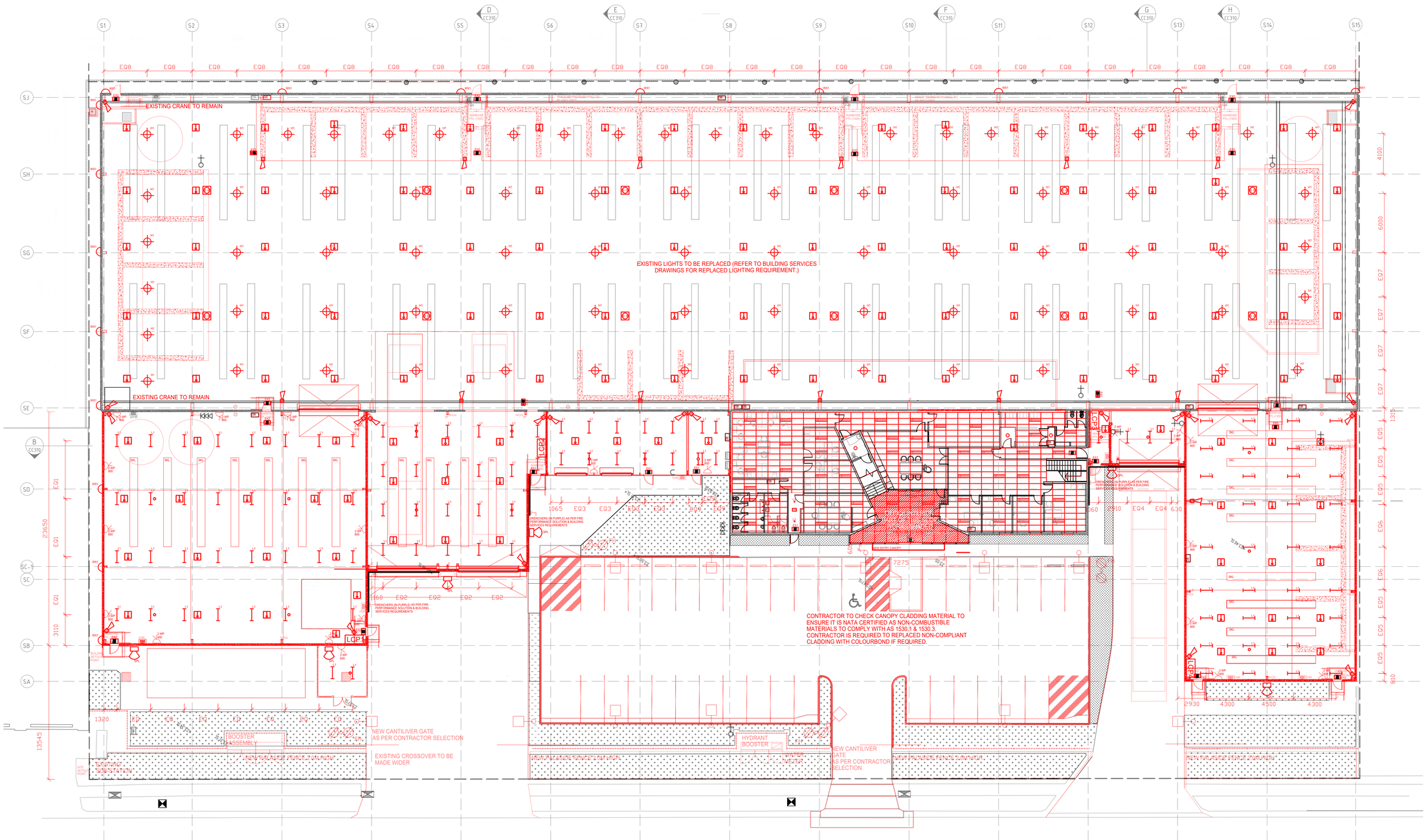
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DEGNAN
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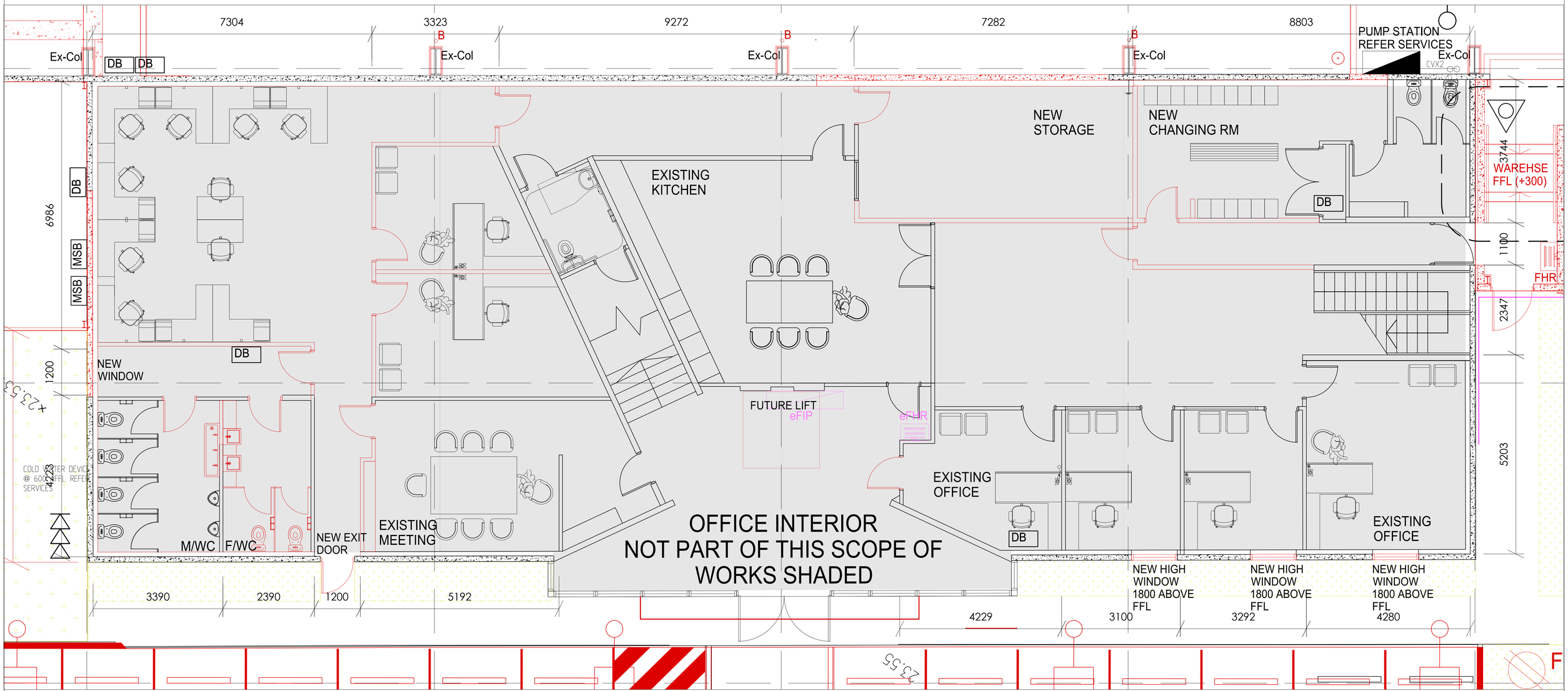
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
ROOF PLAN

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SCALE	1:200@A1 1:400@A3
PROJECT NO.	22030
CHECK:	GW
DRAWING NUMBER:	CC-203
REVISION	2
SHEET	A1


EXISTING CRANE TO REMAIN
EXISTING CRANE TO REMAIN
EXISTING LIGHTS TO BE REPLACED (REFER TO BUILDING SERVICES DRAWINGS FOR REPLACED LIGHTING REQUIREMENT.)
CONTRACTOR TO CHECK CANOPY CLADDING MATERIAL TO ENSURE IT IS NATA CERTIFIED AS NON-COMBUSTIBLE MATERIALS TO COMPLY WITH AS 1530.1 & 1530.3. CONTRACTOR IS REQUIRED TO REPLACED NON-COMPLIANT CLADDING WITH COLOURBOND IF REQUIRED.
NEW CANTILIVER GATE AS PER CONTRACTOR SELECTION
EXISTING CROSSOVER TO BE MADE WIDER
BOOSTER ASSEMBLY
HYDRANT BOOSTER
WATER METER
NEW CANTILIVER GATE AS PER CONTRACTOR SELECTION
SUBSTATION
SPRINKLERS (IN PURPLE) AS PER FIRE PERFORMANCE SOLUTION & BUILDING SERVICES REQUIREMENTS
NEW PALISADE FENCE 2.0M HIGH
NEW PALISADE FENCE 2.0M HIGH
NEW PALISADE FENCE 2.0M HIGH
LCP1
LCP2
LCP3
LGP1
FIP
WW1
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13
SW14
SW15
SW16
SW17
SW18
SW19
SW20
SW21
SW22
SW23
SW24
SW25
SW26
SW27
SW28
SW29
SW30
SW31
SW32
SW33
SW34
SW35
SW36
SW37
SW38
SW39
SW40



1 OFFICE PLAN
1 : 50 @ A1

NOTE:

1. PROPOSED NEW WORK IN RED ABOVE
2. THE OFFICE PLAN IS SUBJECT TO REVIEW BY BUILDING SURVEYOR ON COMPLIANCE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS ON-SITE.
3. ALL DIMENSIONS INDICATIVE ONLY AND TO BE VARIFIED ON SITE

AMENDMENTS

A	21/07/23	CC progress coordination	WL			
B	03/08/23	Office layout coordination	WL			
1	29/08/23	70% CC Submission _Draft	WL			
2	01/09/23	70% CC Submission	WL			

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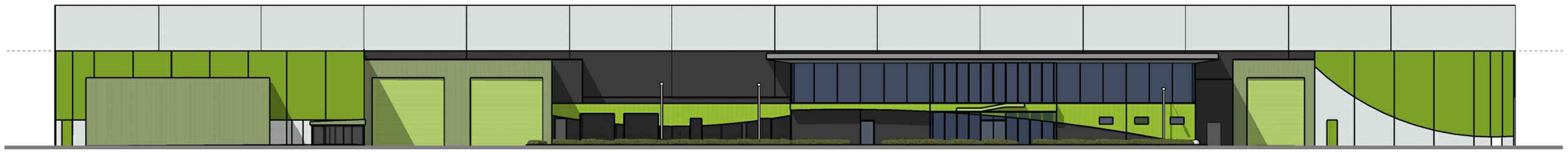
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
OFFICE PLAN

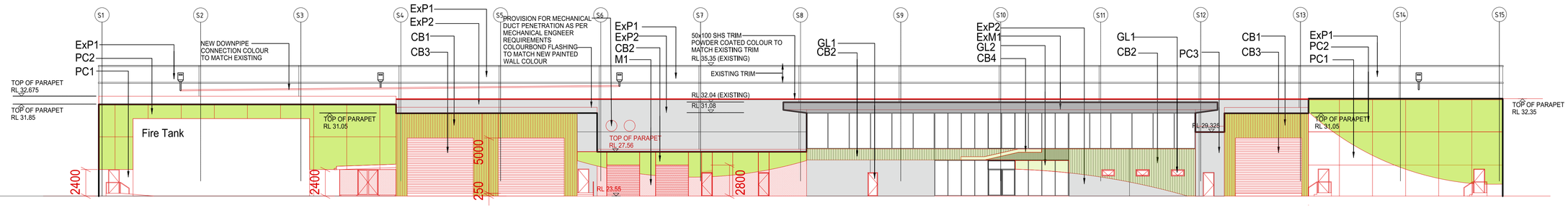
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PROJECT NO.	22030
CHECK:	GW
DRAWING NUMBER:	CC-250
REVISION	2
SHEET	A1

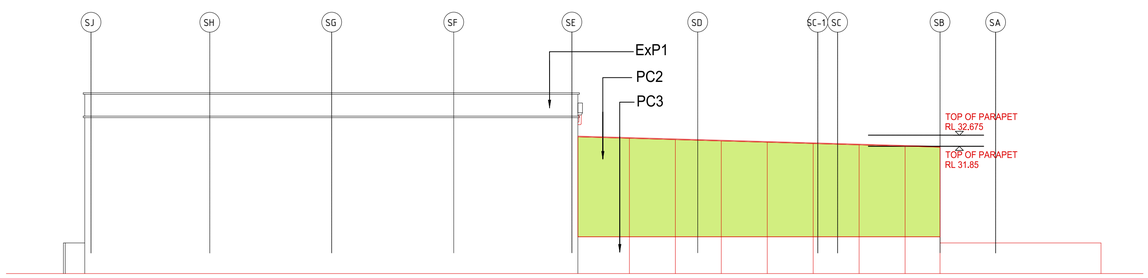
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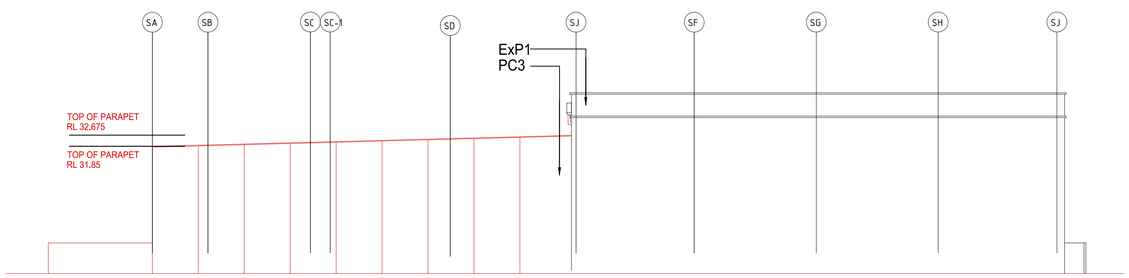


1 ELEVATION 1 (PROPOSED COLOUR)
1:200



2 ELEVATION 1
1:200





3 ELEVATION 2
1:200

4 ELEVATION 3
1:200

FINISHES SUMMARY (REFER TO FINISHES SCHEDULE FOR DETAIL)

ExP1 Existing precast panel
Finish: Paint finish
Colour: Dulux Dieskau

ExP2 Existing Precast panel
Finish: Paint finish
Colour: Dulux Grey Master

PC1 Precast panel
Finish: Paint finish
Colour: Dulux Dieskau

PC2 Precast panel
Finish: Paint finish
Colour: Dulux Venue Flytrap

PC3 Existing Precast panel
Finish: Paint finish
Colour: Dulux Grey Master

CB1 Metal Cladding on Precast
Finish: Lysaght Colourbond custom colour
Colour: Colour to match Dulux Celuce

CB2 Metal Cladding on Precast
Finish: Lysaght Colourbond custom colour
Colour: Colour to match Dulux Jungle Juice

CB3 Roller Shutter
Finish: -
Colour: Dulux Young Leaf

CB4 Metal Cladding on Precast
Finish: Lysaght Colourbond custom colour
Colour: Colour to match Dulux Celuce

ExM1 Existing Canopy facade cladding to be replace if non-compliance
Colour: to match existing

M1 Perforated metal panel

AMENDMENTS

A	12/05/23	Drawing progress update	WL			
B	21/07/23	CC progress coordination	WL			
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1	29/08/23	70% CC Submission _Draft	WL			
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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
ELEVATIONS & FACADE MATERIALS

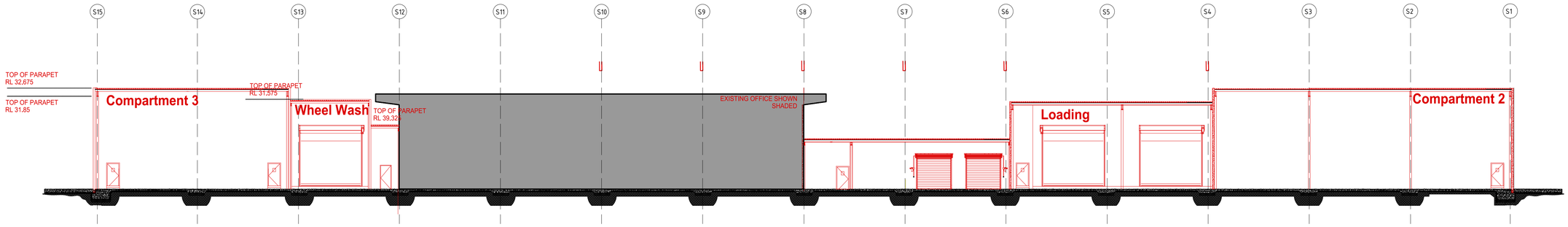
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REVISION	2
SHEET	A1

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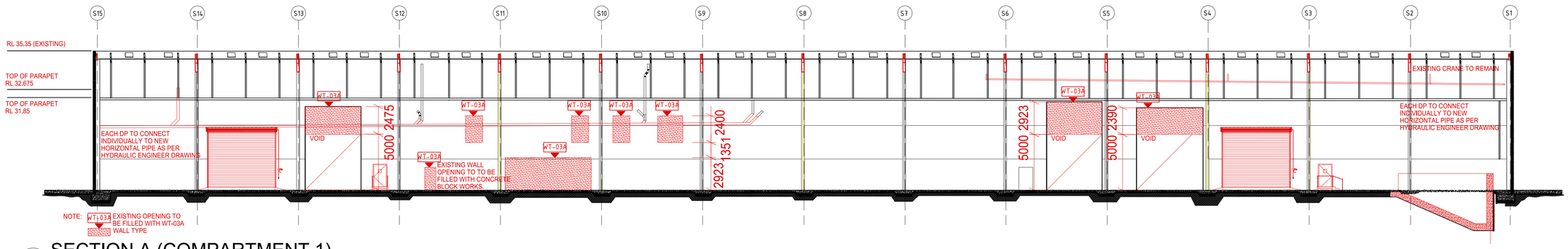
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2 SECTION B (COMPARTMENT 2 & 3)

1:200



1 SECTION A (COMPARTMENT 1)

1:200

AMENDMENTS

A	12/05/23	Drawing progress update	WL			
B	31/05/23	Progress meeting discussion	WL			
C	21/07/23	CC progress coordination	WL			
D	28/07/23	CC progress coordination	WL			
1	29/08/23	70% CC submission - Draft	WL			
2	01/09/23	70% CC Submission	WL			

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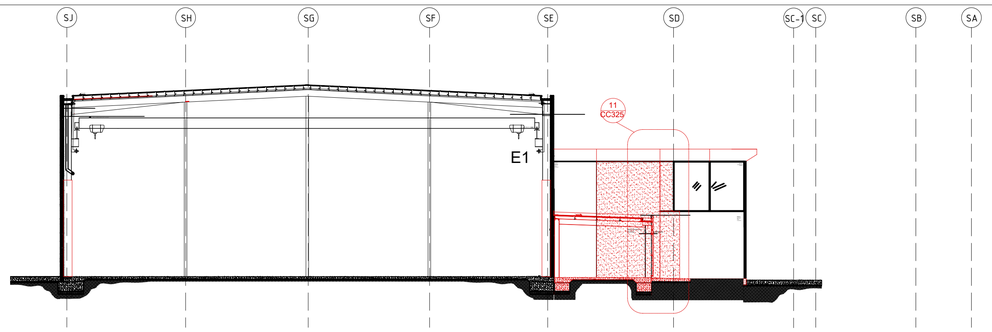
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
GENERAL SECTIONS 1

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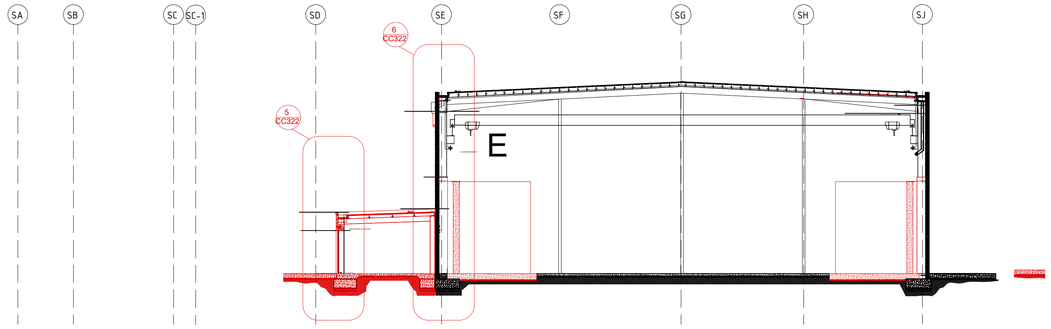
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DRAWING NUMBER	CC-310
REVISION	2
SHEET	A1



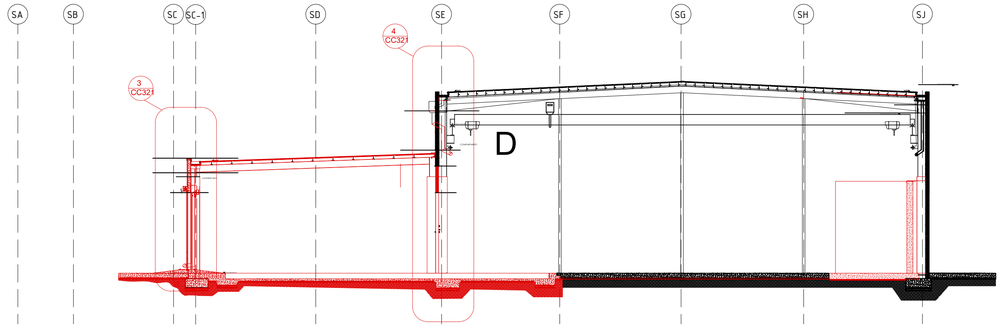
4 SECTION E1 (COMPARTMENT 1 & MECHANICAL ROOM)

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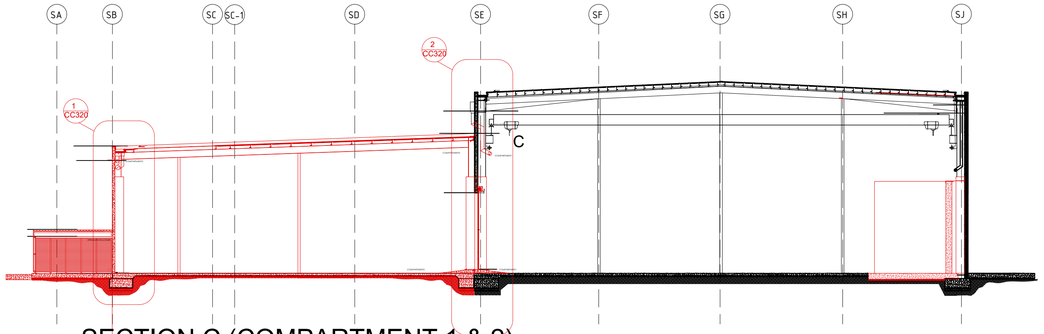
3 SECTION E (COMPARTMENT 1 & MECHANICAL ROOM)

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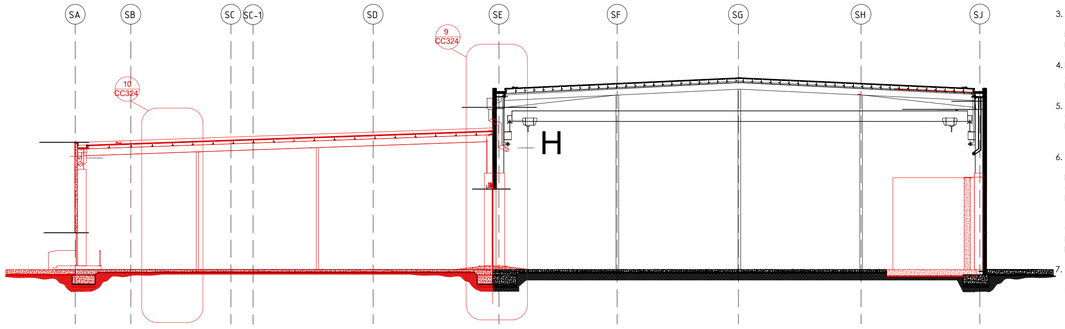
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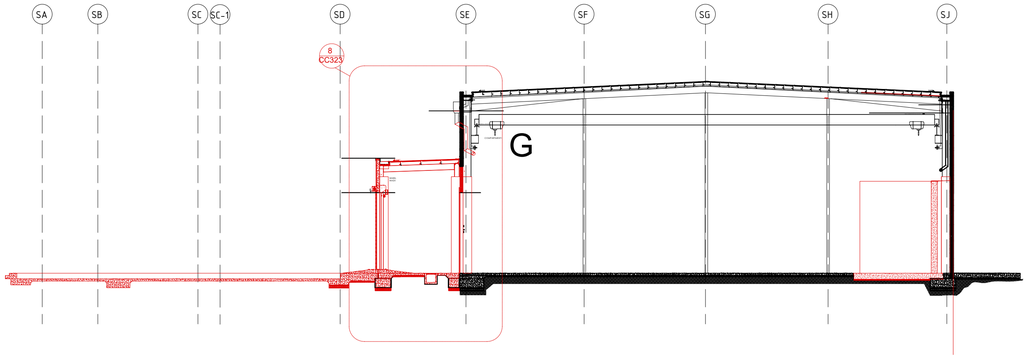
1 SECTION C (COMPARTMENT 1 & 2)

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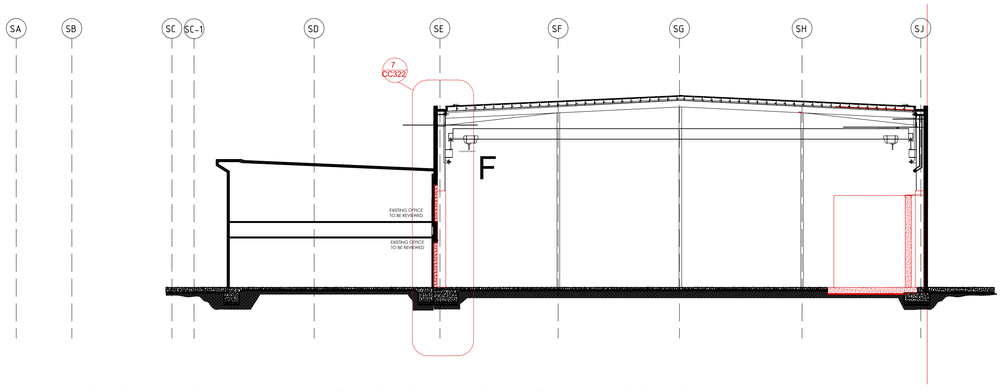
7 SECTION H (COMPARTMENT 1 & 3)

1:200



6 SECTION G (COMPARTMENT 1 & WHEEL WASH)

1:200



5 SECTION F (COMPARTMENT 1 & EXISTING OFFICE)

1:200

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2	01/09/23	70% CC Submission	WL

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PROJECT

PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING

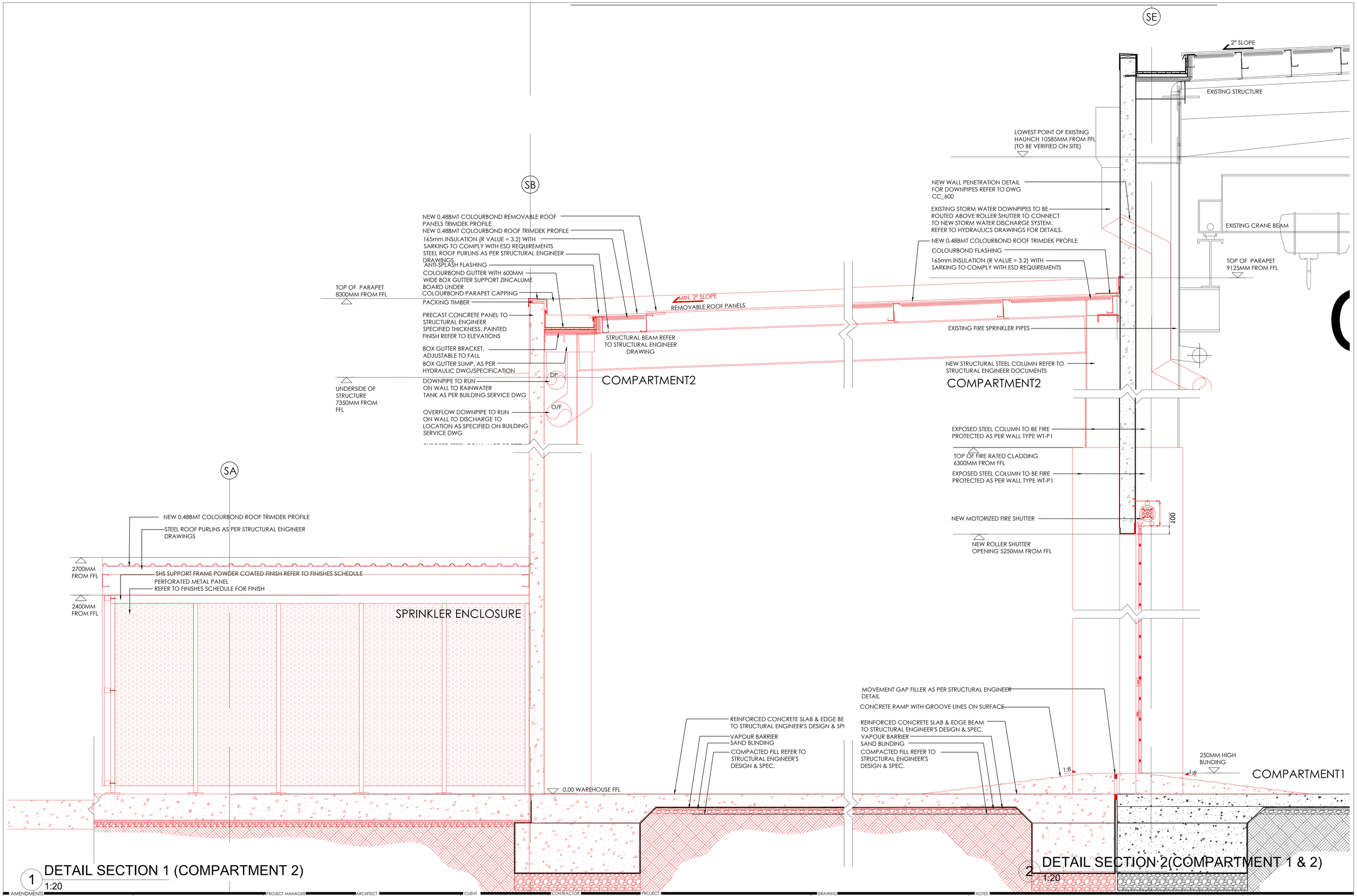
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DRAWING NUMBER:	CC-311
REVISION	2
SHEET	A1

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AMENDMENTS

1	29/08/23	70% CC submission _Draft	WL
2	01/09/23	70% CC Submission	WL

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9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

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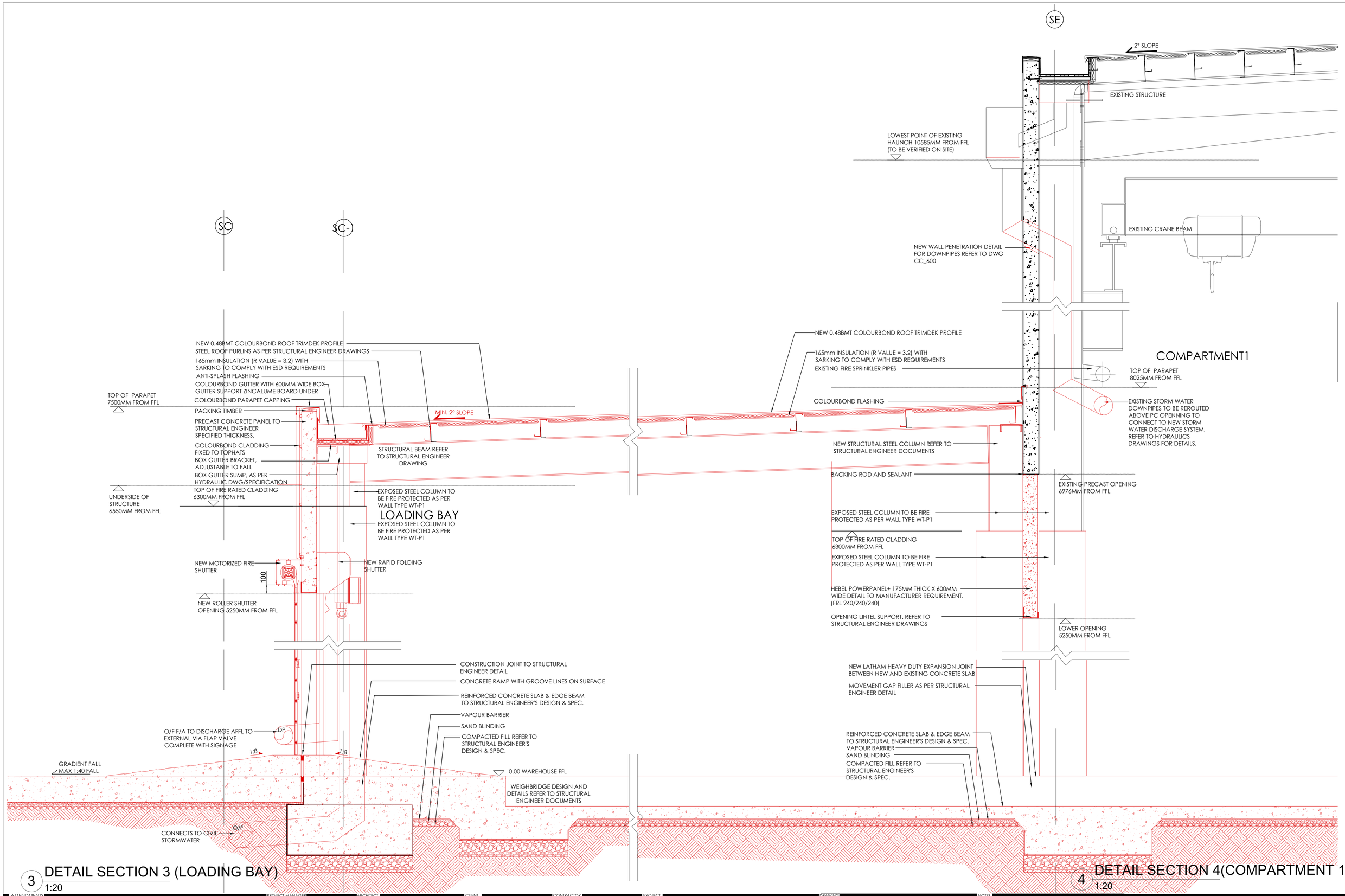
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3 DETAIL SECTION 3 (LOADING BAY)
1:20

4 DETAIL SECTION 4(COMPARTMENT 1)
1:20

AMENDMENTS

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2	01/09/23	70% CC Submission	WL				

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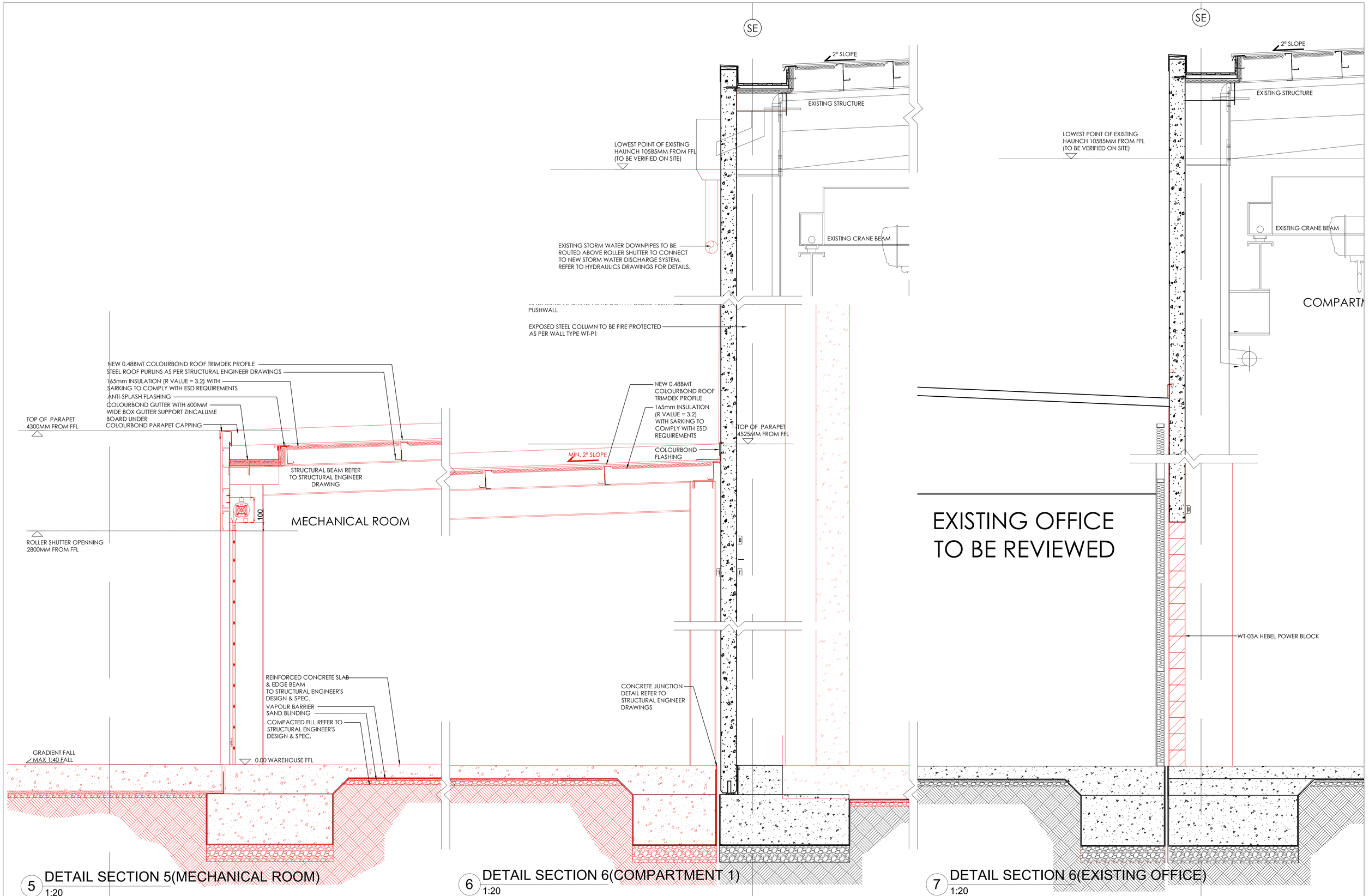
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SHEET	A1

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5 DETAIL SECTION 5(MECHANICAL ROOM)
1:20

6 DETAIL SECTION 6(COMPARTMENT 1)
1:20

7 DETAIL SECTION 6(EXISTING OFFICE)
1:20

AMENDMENTS

1	29/08/23	70% CC submission Draft	WL	
2	01/09/23	70% CC Submission	WL	

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SHEET	A1

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SE

2° SLOPE

EXISTING STRUCTURE

LOWEST POINT OF EXISTING HAUNCH 10585MM FROM FFL (TO BE VERIFIED ON SITE)

EXISTING CRANE BEAM

NEW WALL PENETRATION DETAIL FOR DOWNPIPES REFER TO DWG CC_600

G

EXISTING STORM WATER DOWNPIPES TO BE REROUTED ABOVE PC OPENNING TO CONNECT TO NEW STORM WATER DISCHARGE SYSTEM. REFER TO HYDRAULICS DRAWINGS FOR DETAILS.

NEW 0.48BMT COLOURBOND ROOF TRIMDEK PROFILE

STEEL ROOF PURLINS AS PER STRUCTURAL ENGINEER DRAWINGS

165mm INSULATION (R VALUE = 3.2) WITH SARKING TO COMPLY WITH ESD REQUIREMENTS

ANTI-SPLASH FLASHING

COLOURBOND GUTTER WITH 600MM WIDE BOX GUTTER SUPPORT ZINCALUME BOARD UNDER

TOP OF PARAPET 7500MM FROM FFL

COLOURBOND PARAPET CAPPING

PACKING TIMBER

PRECAST CONCRETE PANEL TO STRUCTURAL ENGINEER SPECIFIED THICKNESS. PAINTED FINISH REFER TO ELEVATIONS

COLOURBOND CLADDING FIXED TO TOPHATS

BOX GUTTER BRACKET, ADJUSTABLE TO FALL

BOX GUTTER SUMP, AS PER HYDRAULIC DWG/SPECIFICATION

MIN. 2° SLOPE

COLOURBOND FLASHING

STRUCTURAL BEAM REFER TO STRUCTURAL ENGINEER DRAWING

EXPOSED STEEL COLUMN TO BE FIRE PROTECTED AS PER WALL TYPE WT-P1

TOP OF FIRE RATED CLADDING 6300MM FROM FFL

EXPOSED STEEL COLUMN TO BE FIRE PROTECTED AS PER WALL TYPE WT-P1

EXPOSED STEEL COLUMN TO BE FIRE PROTECTED AS PER WALL TYPE WT-P1

WHEEL WASH

EXPOSED STEEL COLUMN TO BE FIRE PROTECTED AS PER WALL TYPE WT-P1

NEW MOTORIZED FIRE SHUTTER

NEW RAPID FOLDING SHUTTER

100

WT-03A HEBEL POWER BLOCK

OPENING LINTEL SUPPORT. REFER TO STRUCTURAL ENGINEER DRAWINGS

NEW ROLLER SHUTTER OPENING 5250MM FROM FFL

LOWER OPENING 5250MM FROM FFL

CONSTRUCTION JOINT TO STRUCTURAL ENGINEER DETAIL

CONCRETE RAMP WITH GROOVE LINES ON SURFACE

REINFORCED CONCRETE SLAB & EDGE BEAM TO STRUCTURAL ENGINEER'S DESIGN & SPEC.

GRATED TRENCH CONNECTS TO FILTRATION SYSTEM

1:8

1:8

ESIGN AND STRUCTURAL CUMENTS

8 DETAIL SECTION 8(WHEEL WASH)

1:20

AMENDMENTS

1	29/08/23	70% CC submission_Draft		WL			
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PROJECT

PRESTONS WASTE TREATMENT FACILITY

9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING

DETAIL SECTIONS 4

NOTES

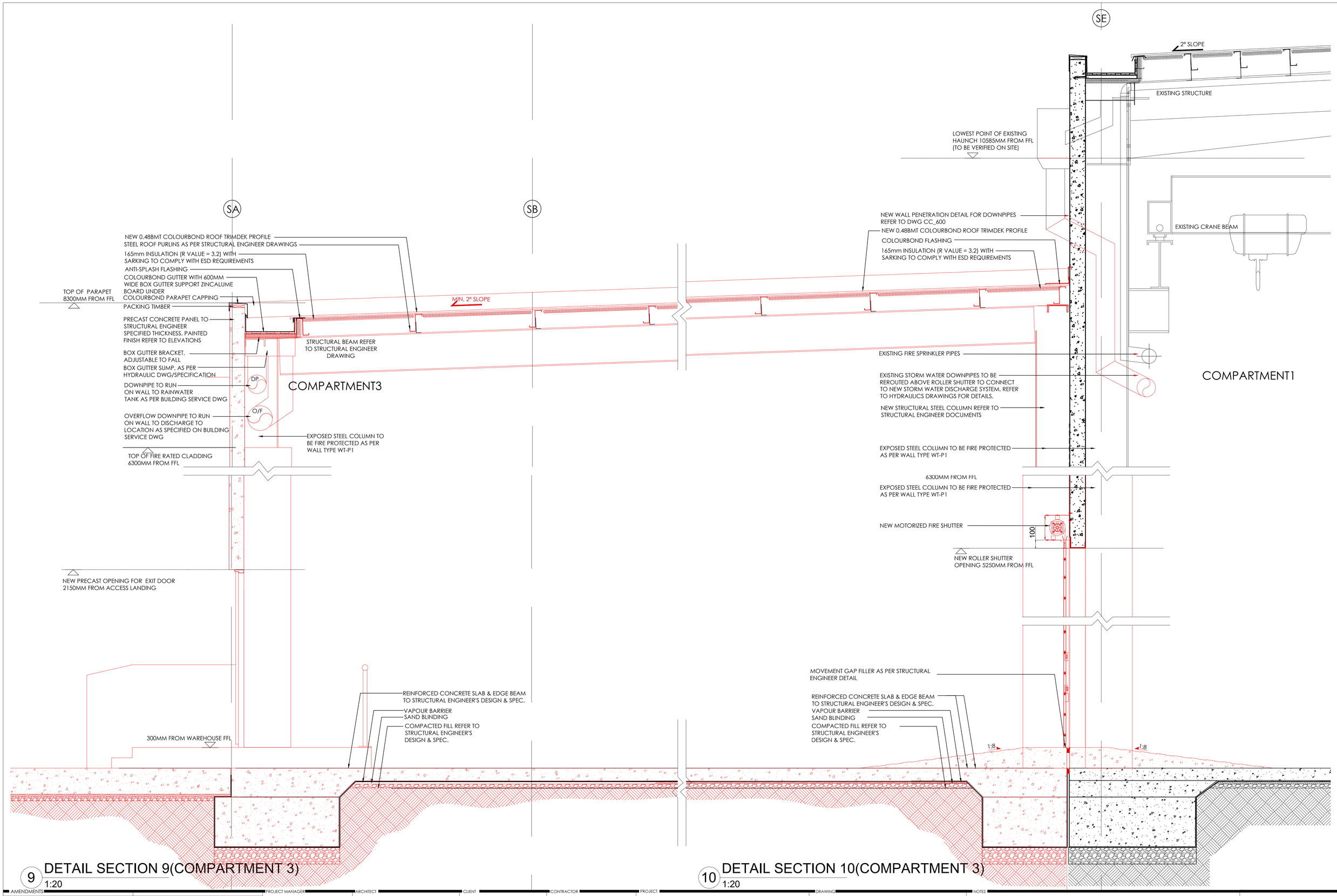
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REVISION	2
SHEET	A1

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9 DETAIL SECTION 9(COMPARTMENT 3)
1:20

10 DETAIL SECTION 10(COMPARTMENT 3)
1:20

AMENDMENTS

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RICHARD'S ARCHITECT: CLIFF WOLFF REG No. 17981

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

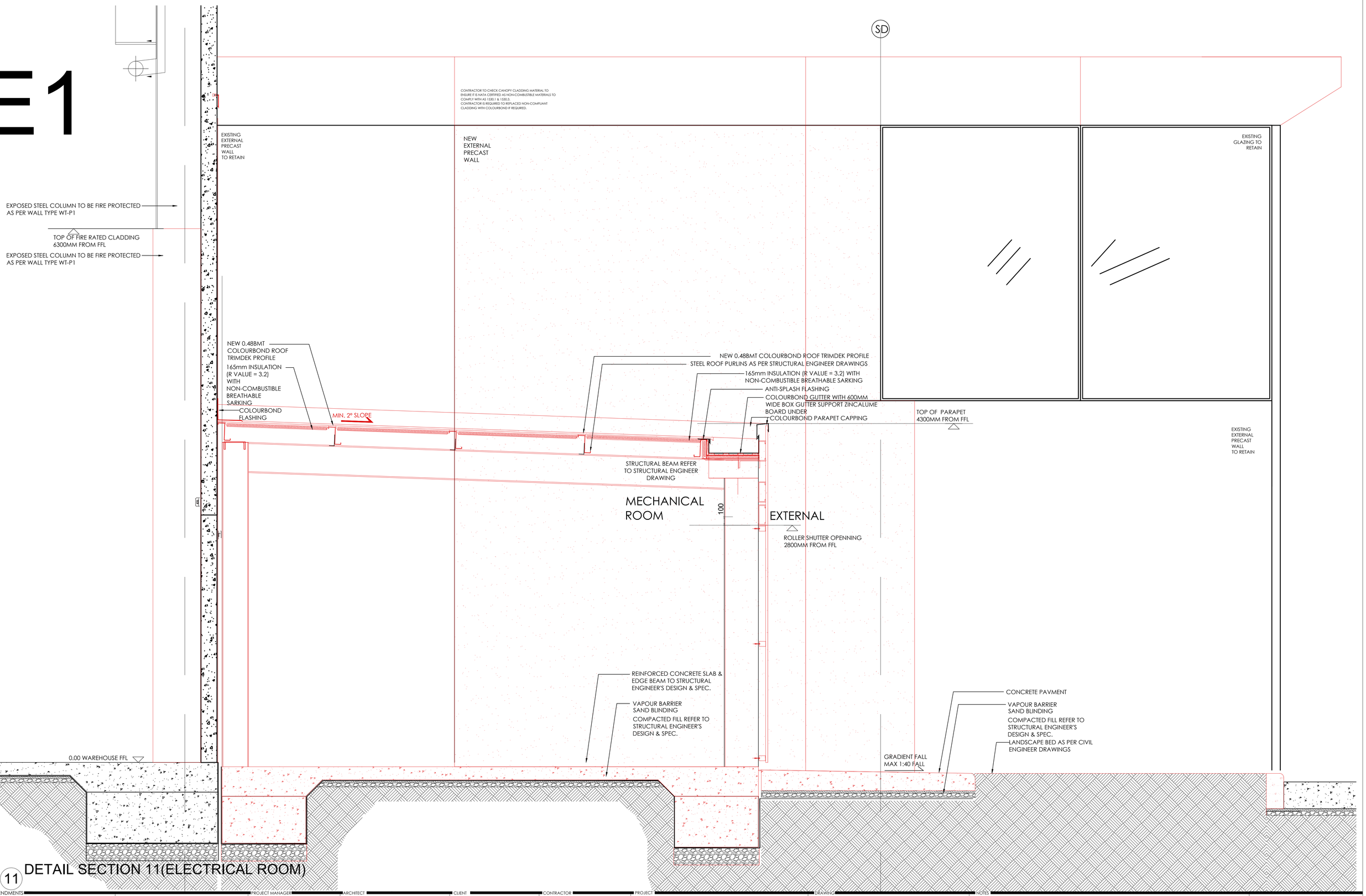
DRAWING
DETAIL SECTIONS 5

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DATE	01/09/2023
DRAWN	WL
SCALE	1:200@A1 1:400@A3
PROJECT NO.	22030
CHECK	GW
DRAWING NUMBER:	CC-324
REVISION	2
SHEET	A1

CAD Directory: Z:\02_Projects\2200\02030_9 Whyalla Pl, Prestons, NSW\2.0_Drawings\01_CAD\05_CD\02030_Whyalla_CC_320-1

E1



11 DETAIL SECTION 11(ELECTRICAL ROOM)

AMENDMENTS

1	29/08/23	70% CC submission_Draft	WL				
2	01/09/23	70% CC Submission	WL				

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
DETAIL SECTIONS 5

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DATE	01/09/2023
DRAWN	WL
SCALE	1:200@A1 1:400@A3
PROJECT NO.	22030
CHECK	GW
DRAWING NUMBER	CC-325
REVISION	2
SHEET	A1

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PROPOSED NEW WORK SHOWN IN RED

EXISTING WAREHOUSE COMPARTMENT 1

COMPARTMENT2

LOADING BAY

MECHANICAL ROOM

ELEC RM

WAREHSE FFL (+300)

SPACE BEHIND PUSH WALL TO BE ENCLOSED

BAY 1 STORAGE & TRANSFER BAYS

BAY 4

BAY 5

PUMP STATION REFER SERVICES

1500H WT 03B WALL

300MM HIGH BUNDING

50K LITRE WATERTANK

PIT 1 SLUDGES & PRETREATMENT PIT

PIT 4

PIT

COLD WATER DEVICES @ 600 AFFL REFER SERVICES

CAMLOCK FITTING 600 AFFL REFER SERVICES

LINE OF SITE BOUNDARY

ExAHD 23.50

FOR CONTINUATION REFER CC401

FOR CONTINUATION REFER CC402

AMENDMENTS

1	29/08/23	70% CC SUBMISSION - DRAFT	CO	
2	01/09/23	70% CC SUBMISSION	CO	

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SMEC
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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
COMPARTMENT 1 PART PLAN
1/2

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DATE	01/09/2023
DRAWN	CO/WL
SCALE	1:100 @ A1
PROJECT NO.	22030
CHECK	GW
DRAWING NUMBER	CC-400
REVISION	2
SHEET	A1

CAD Directory: Z:\02_Projects\22000\22030_9 Whyalla Pl, Prestons, NSW\2.0_Drawings\01_CAD\05_CD\22030_Whyalla_CC_402

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PROPOSED NEW WORK SHOWN IN RED

FOR CONTINUATION REFER CC400

EXISTING WAREHOUSE COMPARTMENT 1

SPACE BEHIND PUSH WALL TO BE ENCLOSED

WAREHSE FFL (+300)

ExAHD 23.55

PUMP STATION REFER SERVICES

50K LITRE WATERTANK

BAY 19

PFAS BAYS

BAY 21

URETHANE FLOOR BUNDING 150MM W x 25MM H

CONTAINER LAB BY OTHERS

300MM HIGH BUNDING

OFFICE INTERIOR HATCHED NOT PART OF THIS SUBMISSION PACKAGE

ExAHD 23.50

WHEEL WASH

COMPARTMENT3

FOR CONTINUATION REFER CC403

AMENDMENTS

1	29/08/23	70% CC SUBMISSION - DRAFT	CO			
2	01/09/23	70% CC SUBMISSION	CO			

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
COMPARTMENT 1 PART PLAN
2/2

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DATE	01/09/2023
DRAWN	CO/WL
SCALE	1:100 @ A1
PROJECT NO.	22030
CHECK	GW
DRAWING NUMBER	CC-401
REVISION	2
SHEET	A1

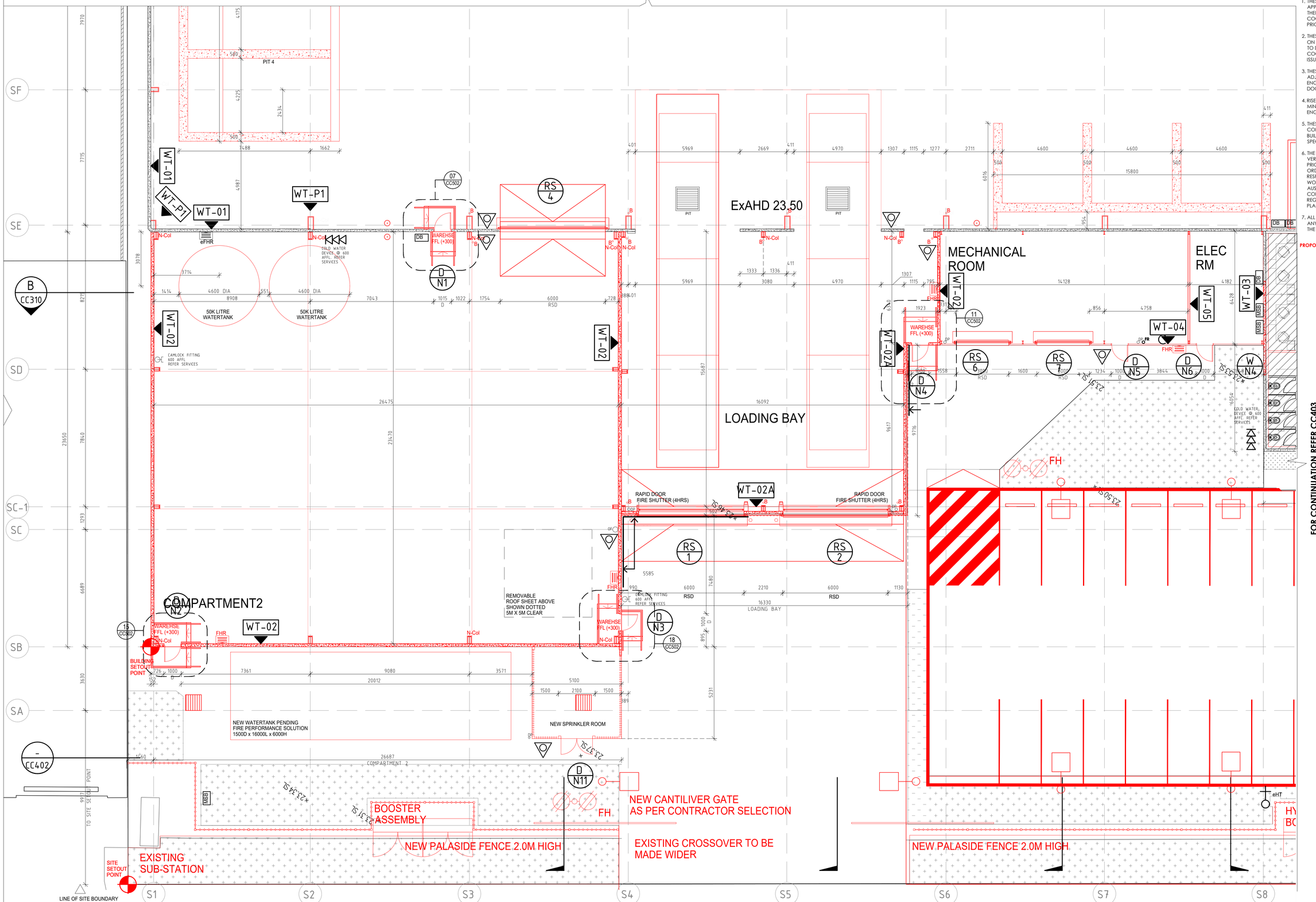
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PROPOSED NEW WORK SHOWN IN RED



AMENDMENTS							
1	29/08/23	70% CC SUBMISSION - DRAFT	CO				
2	01/09/23	70% CC SUBMISSION	CO				

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PROJECT
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9 WHYALLA PL,
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DRAWING
COMPARTMENT 2 PLAN

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DATE	01/09/2023
DRAWN	CO/WL
SCALE	1:100 @ A1
PROJECT NO.	22030
CHECK:	GW
DRAWING NUMBER:	CC-402
REVISION	2
SHEET	A1

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FOR CONTINUATION REFER CC400

FOR CONTINUATION REFER CC402

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PROPOSED NEW WORK SHOWN IN RED

OFFICE INTERIOR HATCHED
NOT PART OF THIS SUBMISSION
PACKAGE

WHEEL WASH

COMPARTMENT 3

URETHANE FLOOR BUNDING 150MM W x 25MM H

BAY 21

CONTAINER LAB BY OTHERS

300MM HIGH BUNDING

PUMP STATION REFER SERVICES

WAREHSE FFL (+300)

ExAHD 23.50

HYDRANT BOOSTER

FH

WATER METER

NEW CANTILIVER GATE AS PER CONTRACTOR SELECTION

NEW PALASIDE FENCE 2.0M HIGH

36239 EXISTING OFFICE (C.O.S)

9736 WHEEL WASH

COMPARTMENT 3

AMENDMENTS						
1	29/08/23	70% CC SUBMISSION - DRAFT	CO			
2	01/09/23	70% CC SUBMISSION	CO			

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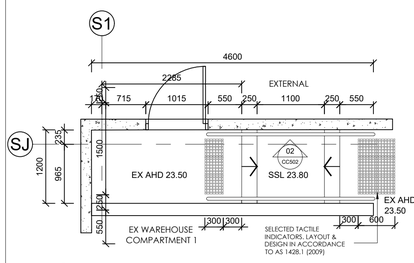
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
COMPARTMENT 3 PLAN

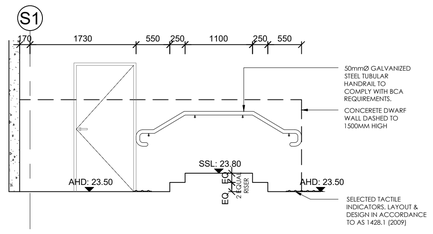
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DATE	01/09/2023
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DRAWING NUMBER	CC-403
REVISION	2
SHEET	A1

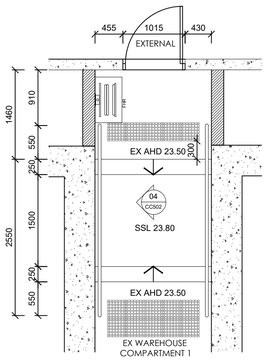
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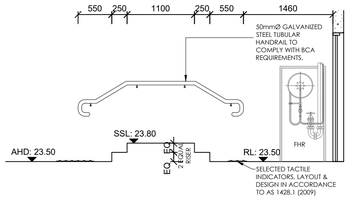
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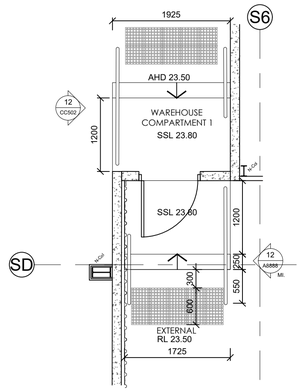
02 ENTRY BUNDING DETAIL SECTION
1:50



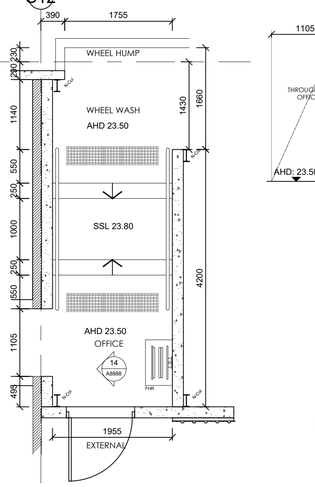
03 ENTRY BUNDING DETAIL PLAN 2
1:50



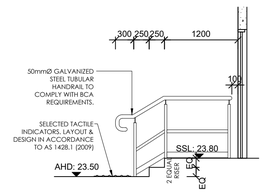
04 ENTRY BUNDING DETAIL SECTION
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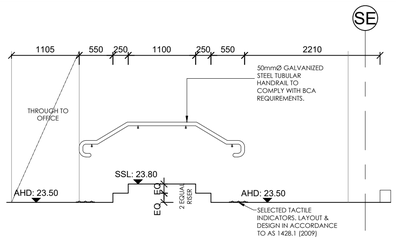
11 ENTRY BUNDING 6 DETAIL PLAN
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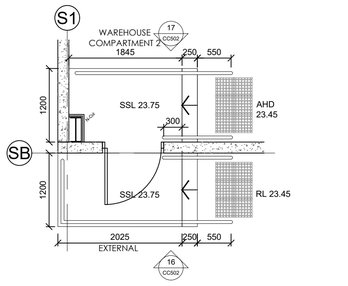
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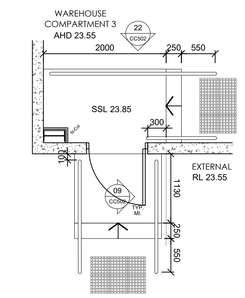
12 ENTRY BUNDING DETAIL SECTION
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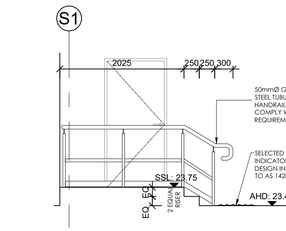
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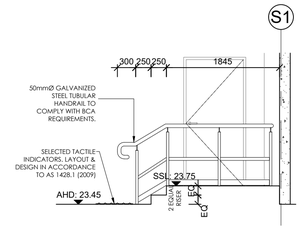
15 ENTRY BUNDING 8 DETAIL PLAN
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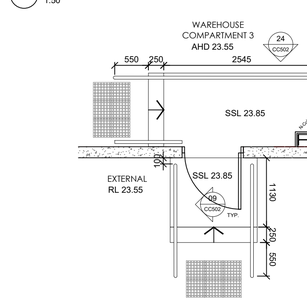
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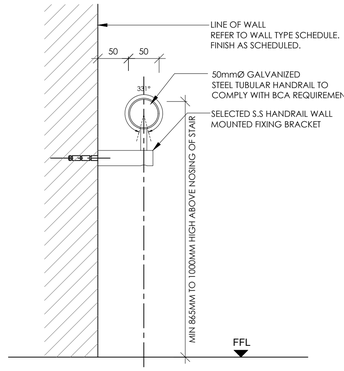
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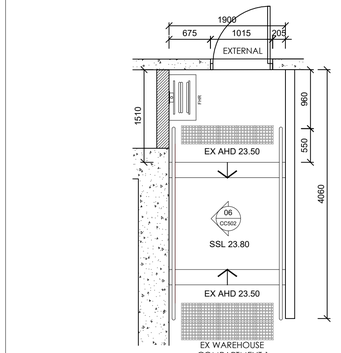
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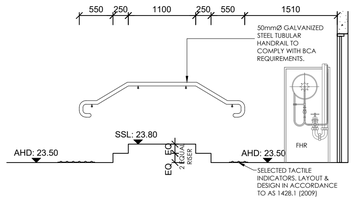
23 ENTRY BUNDING 11 DETAIL PLAN
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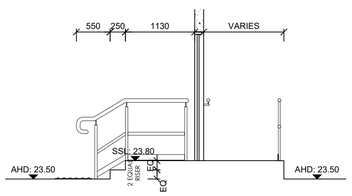
26 TYPICAL HANDRAIL DETAIL
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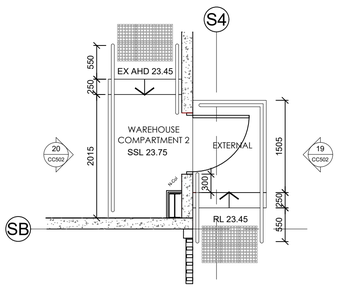
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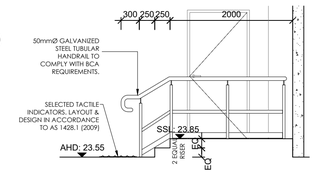
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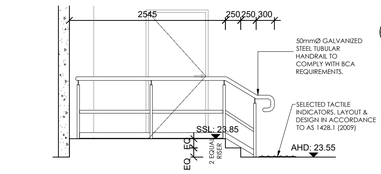
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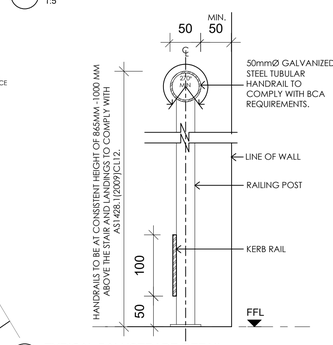
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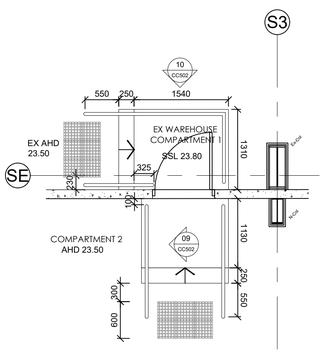
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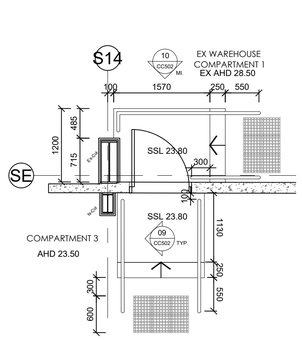
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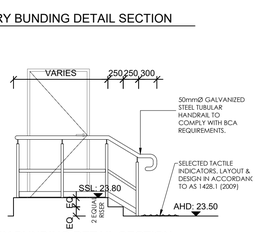
27 TYPICAL BALUSTRADE DETAIL
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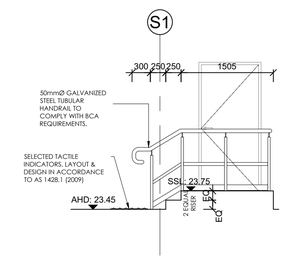
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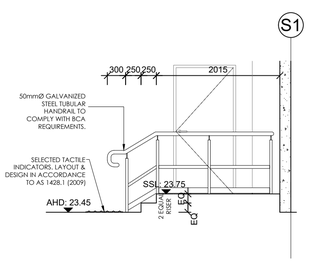
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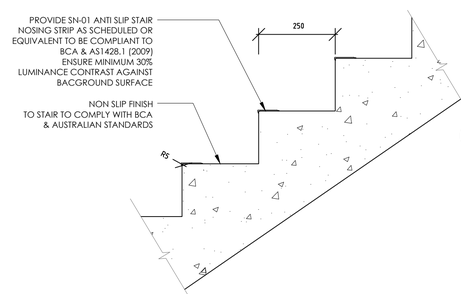
10 ENTRY BUNDING DETAIL SECTION
1:50



19 ENTRY BUNDING DETAIL SECTION
1:50



20 ENTRY BUNDING DETAIL SECTION
1:50



25 TYPICAL STAIR NOSING DETAIL
1:10

GENERAL NOTES:

THE CONTRACTOR, SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, SETBACKS AND SPECIFICATIONS PRIOR TO COMMENCING ANY WORKS OR ORDERING MATERIALS AND SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BUILDING WORKS CONFORM TO THE BUILDING CODE OF AUSTRALIA, AUSTRALIAN STANDARD CODES (CURRENT EDITIONS), BUILDING REGULATIONS, LOCAL LAWS AND TOWN PLANNING REQUIREMENTS.

STAIRS, LANDINGS & BALUSTRADES:

1. STAIRS, STAIRWAYS AND BALUSTRADES TO COMPLY WITH BCA 2022 D3D14., D3D15 & AUSTRALIAN STANDARDS REQUIREMENTS
   STAIR REQUIREMENTS: (OTHER THAN SPIRAL STAIRS)
   RISERS 190MM MAXIMUM, 115MM MINIMUM;
   GOING 355MM MAXIMUM; 240MM MINIMUM; PRIVATE STAIRS (AND 250MM FOR PUBLIC STAIRS),
   RISERS AND TREADS TO BE CONSTANT IN SIZE THROUGHOUT FLIGHT.
2. PROVIDE NONSLIP FINISH OR SUITABLE NON SKID STRIP NEAR EDGE OF NOSING TO D3D15 OF BCA 2022.

APPLICATION	DRY SURFACE CONDITION	WET SURFACE CONDITION
RAMP NOT STEEPER THAN 1:8	P4 OR R10	P5 OR R12
TREAD SURFACE	P3 OR R10	P4 OR R11
NOSING/ LANDING EDGE STRIP	P3	P4

3. PROVIDE CONTINUOUS BALLUSTRADE 1000MM MINIMUM. HEIGHT TO BALCONIES AND DECKS AND ACCESS PATHS WHICH ARE 1000MM OR MORE ABOVE GROUND LEVEL. 865MM MINIMUM HEIGHT HANDRAIL ABOVE STAIR NOSING AND TRANSITION TO 1000MM ON LANDINGS.
4. MAXIMUM OPENING BETWEEN BALUSTERS AND STAIR RISERS NOT TO EXCEED 125MM.
5. LANDINGS MUST HAVE A MIN LENGTH OF 750MM AND BE PROVIDED AT THE TOP AND BOTTOM OF STAIRS.
6. CONTINUOUS HANDRAIL TO BE INSTALLED TO ONE SIDE OF STAIR COMPLIANT WITH PART D3D22 OF BCA 2022 AND PROVIDED WHERE THERE IS A CHANGE IN LEVEL OF 1M OR MORE.
7. FLOORS MORE THAN 4 M ABOVE THE SURFACE BENEATH. ANY HORIZONTAL ELEMENTS WITHIN THE BARRIER BETWEEN 150 MM AND 760 MM ABOVE THE FLOOR MUST NOT FACILITATE CLIMBING.
8. WIRE BALUSTRADE MUST COMPLY WITH CLAUSE D3D21 OF THE BCA 2022.
9. WINDOWS WITHIN BEDROOMS THAT ARE OPENABLE WITHIN 1.7M OF FFL AND HAVE A FALL OF 2M MUST BE RESTRICTED TO 125MM OPENING OR HAVE SECURE SCREENS THAT RESIST A FORCE OF 250N.
10. OPENABLE WINDOWS WITH A FALL OF 4M OR MORE MUST BE PROVIDED WITH A 865MM BARRIER. MUST BE RESTRICTED TO 125MM MAX OPENING AND ANY HORIZONTAL ELEMENTS WITHIN THE BARRIER BETWEEN 150 MM AND 760 MM ABOVE THE FLOOR MUST NOT FACILITATE CLIMBING.
11. GLASS BALUSTRADE MUST BE PROVIDED WITH AN INTERLINKING HANDRAIL IN ACCORDANCE WITH AS1288.
12. SLOPE RELATIONSHIP (2X RISER DIMENSIONS GOING DIMENSIONS) MUST BE WITHIN THE RANGE OF 550- 700MM
13. THE GOING AND RISERS MUST BE CONSTANT (UNIFORM) THROUGHOUT EACH FLIGHT.
14. TREADS MUST BE OF SOLID CONSTRUCTION (NOT MESH OR PERFORATED) IF THE STAIRWAY

AMENDMENTS

1	29/08/23	70% CC SUBMISSION - DRAFT	CO			
2	01/09/23	70% CC SUBMISSION	CO			

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Member of the Surbana Jurong Group
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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
ENTRY BUNDING & STAIRS DETAIL

NOTES
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Do not scale drawings, use figured dimensions only. Any discrepancies must be reported to the Architect for clarification. Drawings shall not be used for construction purposes until issued by Iwolff annotated as "For Construction".

DATE:	01/09/2023
DRAWN:	CO/WL
SCALE:	1:50 @ A1
PROJECT NO.:	22030
CHECK:	GW
DRAWING NUMBER:	CC-502
REVISION	2
SHEET	A1

CAD Directory: Z:\02_Projects\22000\22030_9 Whyalla Pl, Prestons, NSW\Z.0_Drawings\01_CAD\05_CD\22030_Whyalla_CC_502 Stair Details

Concrete, Brick and Block Walls

A) JOINT PROTECTED FROM EXPOSED SIDE | B) JOINT PROTECTED FROM UNEXPOSED SIDE | C) JOINT PROTECTED FROM BOTH SIDES

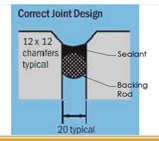


FILL DEPTHS OF FYREFLEX (mm)

JOINT WIDTH (mm)	10			20			25		30		40		50	
JOINT FILL TYPE	A	B	C	A	B	C	A	C	A	C	A	C	A	C
RATING (minutes)														
-/120/120	10	15	10	10	30	10	12	12	15	15	20	20	25	20
-/180/180	10	15	10	10	30	10	12	12	15	15	20	20	25	20
-/240/240	15	15	10	30	35	15	30	20	30	20	40	20	40	20

NOTE: If the direction of fire is not known, sealant must be applied to both sides of the control joint, or to the thicknesses specified under joint type 'B'.

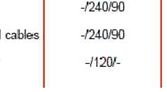
Internal Concrete and Pre-Cast Slabs



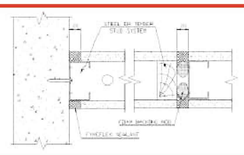
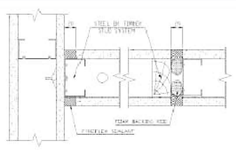
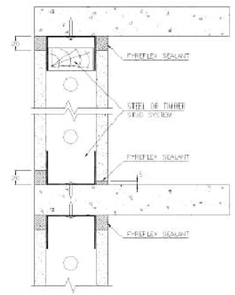
FILL DEPTHS OF FYREFLEX (mm)

RATING (minutes)	JOINT WIDTH (mm)					
	10	20	25	30	40	50
-/120/120	10	10	12	15	20	25
-/180/180	10	10	12	15	20	25
-/240/240	15	30	30	30	40	40

SPECIAL APPLICATIONS

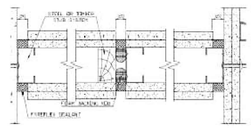
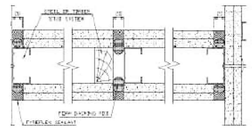
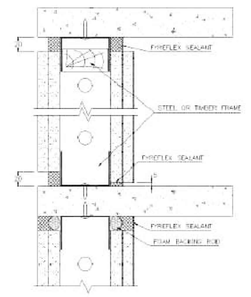
System Description	System Diagram	System Description	System Diagram
• External applications • Up to 4 hours • With non-rated external grade sealant		• Steel decking • Up to 4 hours	
• Slab-on-slab • Up to 4 hours • With non-rated external or internal grade sealant		• Joint between wall and floor slab • Up to 4 hours	

1 HOUR PLASTERBOARD SYSTEMS

SYSTEM	SYSTEM DIAGRAM
• T-Junction between concrete wall and plasterboard wall • Typical control joint in plasterboard wall	
• T-Junction between two plasterboard walls • Typical control joint in plasterboard wall	
• Deflection head and base between concrete slabs and plasterboard wall	

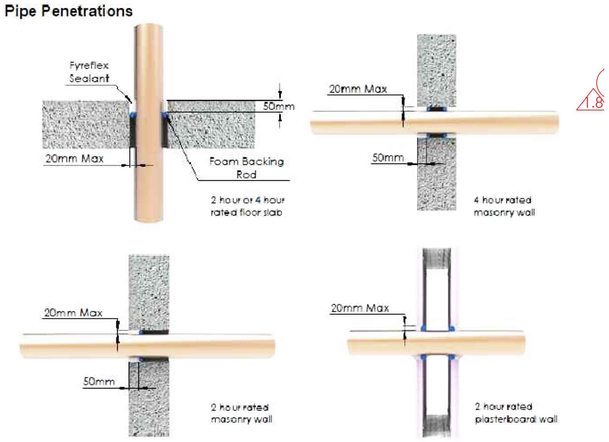
NOTE:
- *Fire rated plasterboard systems must be installed according to manufacturers instructions.*
- *FyreFlex is filled to depth of plasterboard sheet*

2 HOUR PLASTERBOARD SYSTEMS

SYSTEM	SYSTEM DIAGRAM
• T-Junction between concrete wall and plasterboard wall • Typical control joint in plasterboard wall • T-Junction between two plasterboard walls	
• T-Junction between concrete wall and plasterboard wall • Typical control joint in plasterboard wall • T-Junction between two plasterboard walls	
• Deflection head and base between concrete slabs and plasterboard wall	

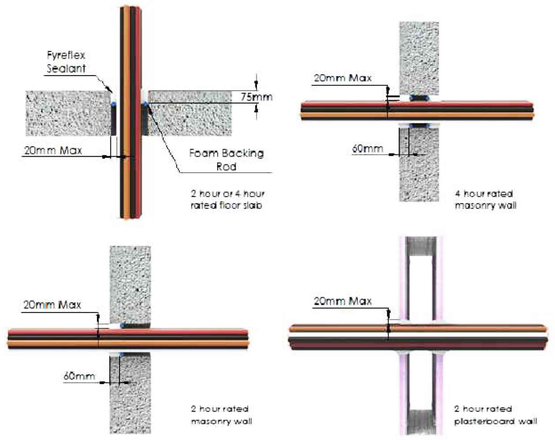
NOTE:
- *Fire rated plasterboard systems must be installed according to manufacturers instructions.*
- *FyreFlex is filled to depth of plasterboard sheet*

Pipe Penetrations



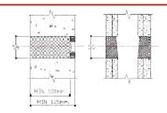
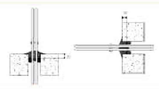
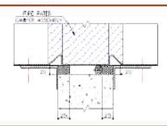
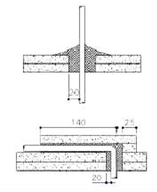
PIPE TYPE	WALL OR FLOOR	PIPE SIZES	FIRE RESISTANCE LEVEL
STEEL			
⇒ Non Insulated	Walls and floors	Up to 225mm diam.	-/240/-
⇒ With 25mm rockwool insulation	Floors only	Up to 200mm diam.	-/180/-
CAST IRON			
⇒ Non insulated	Walls and floors	Up to 225mm diam.	-/240/-
⇒ With 25mm rockwool insulation	Floors only	Up to 200mm diam.	-/180/-
BRASS			
⇒ Non insulated	Walls and floors	Up to 102mm diam.	-/240/-
COPPER			
⇒ Non insulated	Walls and floors	Up to 225mm diam.	-/240/-
⇒ With 25mm rockwool insulation	Floors only	Up to 19mm diam.	-/120/-
FIBRE RE-INFORCED CEMENT PIPES AND COLUMNS	Walls and floors	Up to 225mm diam.	-/120/120

Electrical Cable Penetrations



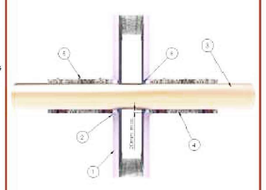
PENETRATION TYPE	WALL OR FLOOR	PENETRATION SIZES	FIRE RESISTANCE LEVEL
SINGLE CABLE	Walls and floors	Up to 54mm diam.	-/240/90
CABLE BUNDLE	Walls and floors	Bundle of up to 24 cables	-/240/90
STEEL CABLE TRAY	Walls and floors	Up to 380mm wide with assorted cables	-/240/90
BUS BARS	Walls and floors	50mm x 10mm copper bus bars	-/120/-

Special Applications

SYSTEM	SYSTEM DIAGRAM	FIRE RESISTANCE LEVEL
• Blank penetration • Walls and floors • Max 56mm diameter		-/120/120
• Copper and aluminium bus bars • Walls and floors • Max size 10mm x 200mm		-/120/-
• Perimeter seal for steel duct and damper used in masonry walls and floors		-/120/-
• Perimeter seal for steel duct and damper used in drywalls		-/120/-
• Cable penetrations through plasterboard ceiling		-/60/-

Note:
- *Fire rated plasterboard systems must be installed according to manufacturers instructions*
- *FyreFlex is filled to depth of plasterboard sheet*

Plasterboard, Masonry and aerated concrete wall applications

SYSTEM	SYSTEM DIAGRAM	FIRE RESISTANCE LEVEL
⇒ HORIZONTAL 1. Horizontal Floor slabs and fire rated ceilings 2. 25mm x 25mm nominal fillet of FyreFlex sealant to entire perimeter extending along the FyreWrap and the fire stopping material 3. Ductile and metallic services including steel, copper and brass pipes, pipes with combustible insulation materials, cables with and without cable trays, bus bars etc. 4. FyreWrap at least 38mm thick for at least 450mm length, with a 75mm longitudinal overlap, applied to the top of the horizontal separating element only 5. 12mm wide x 0.4mm nominal thick steel banding at mid point and 50mm nominal from each end 6. Backing rod		-/120/120
⇒ VERTICAL 1. Vertical fire rated masonry, aerated concrete and plasterboard walls 2. 25mm x 25mm nominal fillet of FyreFlex sealant to entire perimeter extending along the FyreWrap and the fire stopping material 3. Ductile and metallic services including steel, copper and brass pipes, pipes with combustible insulation materials, cables with and without cable trays, bus bars etc. 4. FyreWrap at least 38mm thick for at least 450mm length, with a 75mm longitudinal overlap 5. 12mm wide x 0.4mm nominal thick steel at mid point and 50mm nominal from each end 6. Backing rod		-/120/120

Note: All quantities estimate for 100 lineal metre requirement

Joint Size WIDTH	Joint Size DEPTH	LITRES	300ml Cartridge	600ml SAUSAGES	10 LITRE PAIL
5	10	5	17	9	-
6	10	6	20	10	-
8	10	8	27	14	-
10	10	10	34	17	1
15	10	15	50	25	2
15	15	22.5	75	38	3
20	10	20	67	34	2
20	15	30	100	50	3
20	20	40	134	67	4
25	15	37.5	125	63	4
25	20	50	167	84	5
30	15	45	150	75	5
30	20	60	200	100	6
40	20	80	266	134	8
50	20	100	334	167	10
60	20	120	400	200	12

FORMULA FOR ESTIMATING QUANTITY OF JOINT SEALANT REQUIREMENTS
(Use whole numbers for millimetres and metres)

L = Length of joint in metres	D = Depth of joint in millimetres
W = Width of joint in millimetres	Q = Quantity of Litres required
$Q = \frac{L \times W \times D}{1000}$	e.g. $Q = \frac{100m \times 15mm \times 10mm}{1000}$ = 15 Litres

Notes:
1. Sealant depth in joints between 10mm & 40mm wide should never be less than half the width
2. It is not recommended for any sealant depth to be less than 10mm or greater than 20mm
3. To estimate the quantity of a triangular fillet, the amount of sealant required would be half that required for a rectangular joint of the same dimensions

AMENDMENTS

A	21/07/23	CC progress coordination					
1	29/08/23	70% CC Submission	WL				
2	01/09/23	70% CC Submission	WL				

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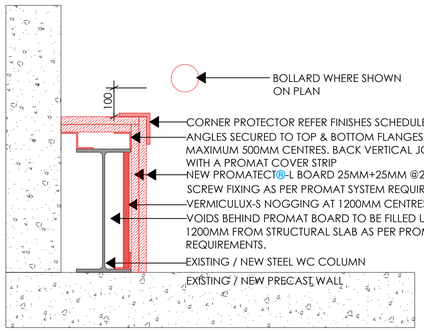
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
WALL PENETRATION DETAILS

NOTES
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DATE	01/09/2023
DRAWN	WL
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CHECK:	GW
DRAWING NUMBER:	CC-600
REVISION	2
SHEET	A3

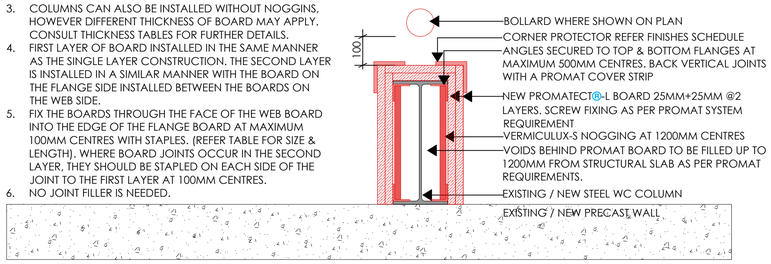
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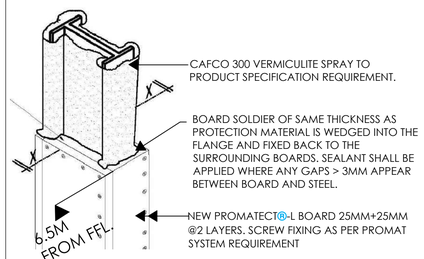
WALL TYPE WT-P1 - (PROMAT CLADDED COLUMN) FRL 240/-/-

INSTALLATION OF DOUBLE LAYER OF PROMATECT®-L FOR COLUMNS BOARD JOINTS

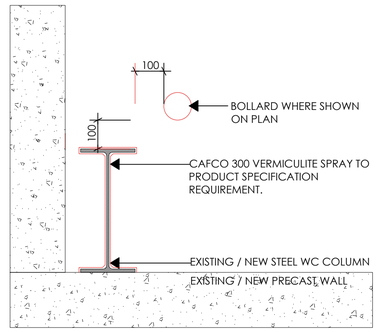
1. BOARD JOINTS ON DIFFERENT LAYERS SHOULD BE OFFSET BY MINIMUM 600MM.
2. CUT AND INSTALL NOGGINS AS PER THE SINGLE LAYER SYSTEM WITH THE NOGGINS INSTALLED IN LINE WITH THE JOINTS OF THE FIRST LAYER OF BOARD AT MAXIMUM 1200MM CENTRES.
3. COLUMNS CAN ALSO BE INSTALLED WITHOUT NOGGINS, HOWEVER DIFFERENT THICKNESS OF BOARD MAY APPLY. CONSULT THICKNESS TABLES FOR FURTHER DETAILS.
4. FIRST LAYER OF BOARD INSTALLED IN THE SAME MANNER AS THE SINGLE LAYER CONSTRUCTION. THE SECOND LAYER IS INSTALLED IN A SIMILAR MANNER WITH THE BOARD ON THE FLANGE SIDE INSTALLED BETWEEN THE BOARDS ON THE WEB SIDE.
5. FIX THE BOARDS THROUGH THE FACE OF THE WEB BOARD INTO THE EDGE OF THE FLANGE BOARD AT MAXIMUM 100MM CENTRES WITH STAPLES. (REFER TABLE FOR SIZE & LENGTH). WHERE BOARD JOINTS OCCUR IN THE SECOND LAYER, THEY SHOULD BE STAPLED ON EACH SIDE OF THE JOINT TO THE FIRST LAYER AT 100MM CENTRES.
6. NO JOINT FILLER IS NEEDED.



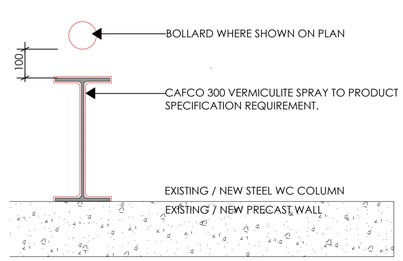
WALL TYPE WT-P1 - (PROMAT CLADDED COLUMN) FRL 240/-/-



FFL TO 6.5M: WALL TYPE WT-P1 - (PROMAT CLADDED COLUMN)FRL 240/-/-



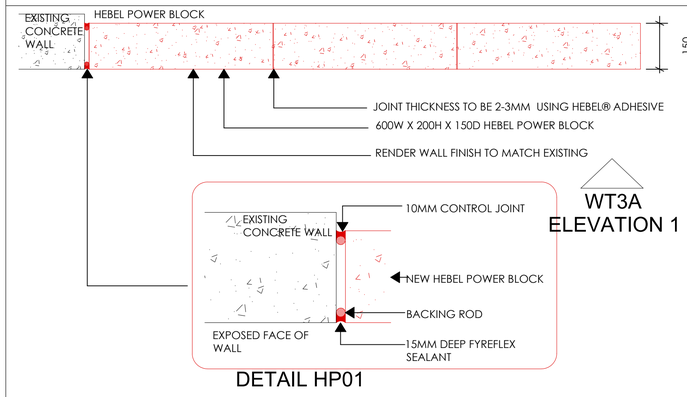
6.5M ABOVE FFL TO TOP OF COLUMN: WALL TYPE WT-P1 (VERMICULITE SPRAY SYSTEM) FRL 240/-/-



6.5M ABOVE FFL TO TOP OF COLUMN : WALL TYPE WT-P1 (VERMICULITE SPRAY SYSTEM) FRL 240/-/-

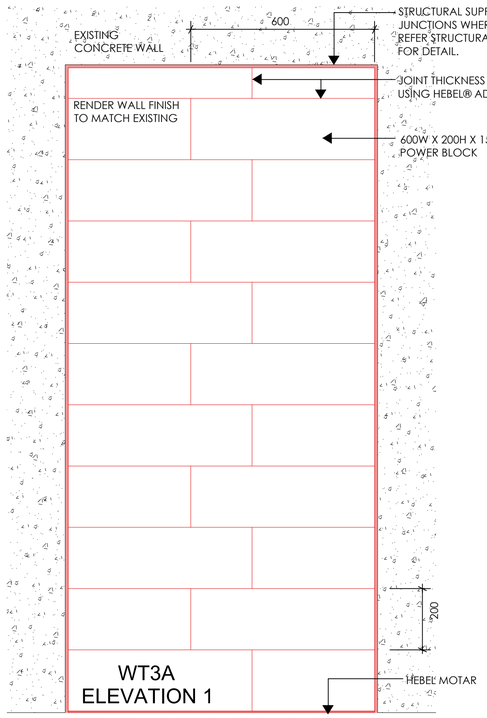
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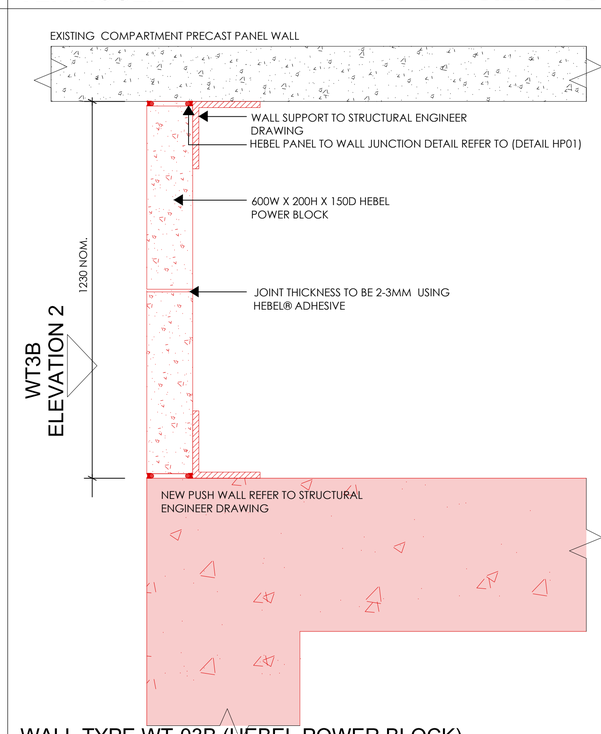
ALL EXPOSED STEEL COLUMNS (OPTION 2) FIRE RATED EXPOSED COLUMN TREATMENT WITH PARTIAL PROMAT & PARTIAL VERMICULITE TBC BY BUILDING SURVEYOR AND CONTRACTOR



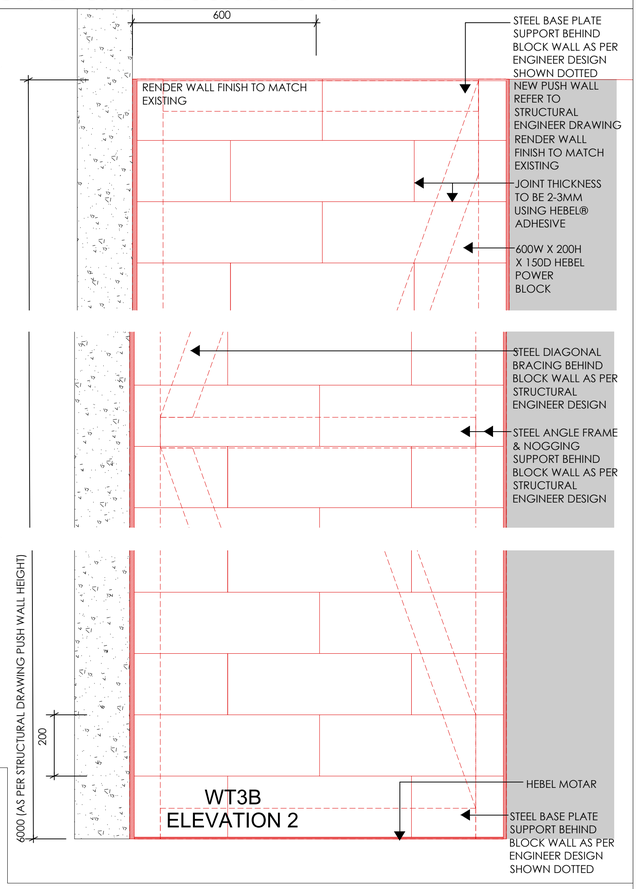
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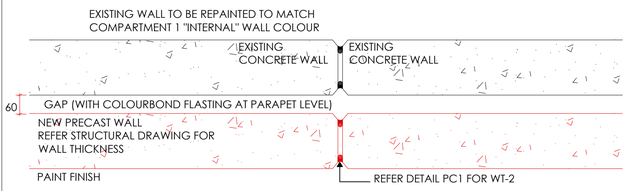
WALL TYPE WT-03A (HEBEL POWER BLOCK) NON-LOAD BEARING FRL 240/240/240



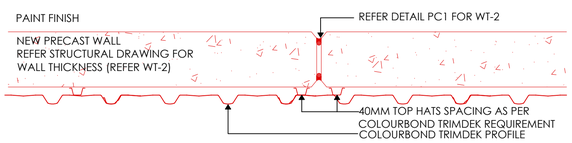


WALL TYPE WT-03B (HEBEL POWER BLOCK) NON-LOAD BEARING FRL 240/240/240

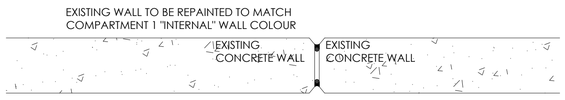




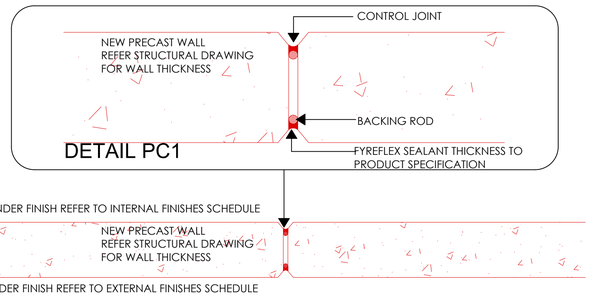
WALL TYPE WT-02B (WHEEL WASH AREA NEW PARTY WALL)



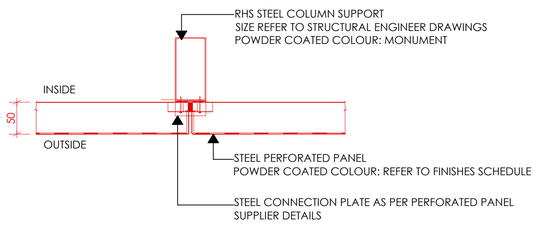
WALL TYPE WT-02A (NEW PRECAST WALL WITH TRIMDEK CLADDING)



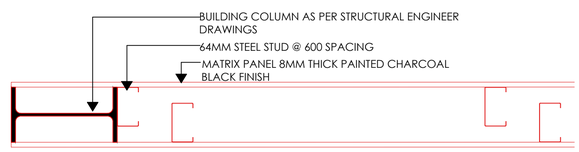
WALL TYPE WT-01 (EXISTING PRECAST WALL)



WALL TYPE WT-02 (NEW PRECAST WALL)



WALL TYPE WT-04 (NEW PEFORATED METAL SCREEN WALL)



WALL TYPE WT-05 (NEW PLANT ROOM PARTITION WALL)

NOTE: PROPOSED NEW WORK IN RED ABOVE

AMENDMENTS

1	29/08/23	70% CC Submission	WL				
2	01/09/23	70% CC Submission	WL				

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

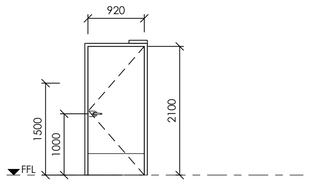
DRAWING
WALL TYPES SCHEDULE AND DETAILS

NOTES

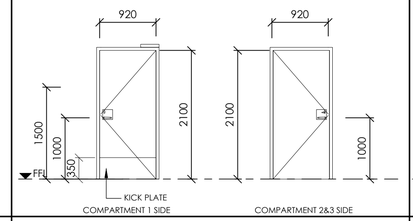
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DATE	01/09/2023
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REVISION	2
SHEET	A1

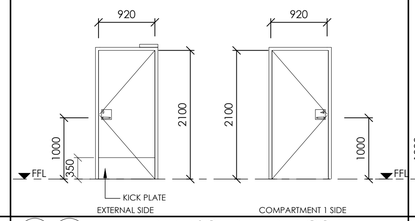
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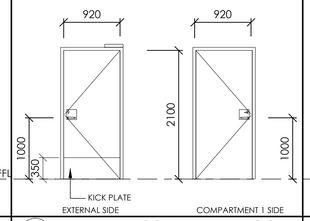
DOOR NUMBER	D E1 D E2 D E3 D E4 EXISTING SOLID TIMBER CORE DOORS TO BE REPLACED
SIZE	920mm x 2100mm (TO BE VARIFIED ON SITE)
DOOR TYPE	REPLACE EXISTING DOOR TO COMPLY (FRL -/60/30)
LOCATION	COMPARTMENT 1
FINISHES	MAKE GOOD AND PAINT FINISH REFER TO FINISHES SCHEDULE
NOTES	NEW DOOR HARDWARES AS FOLLOW LOCK: LOCKWOOD SYNERGY 3541 SHORT BACKSET DOUBLE CYLINDER DEAD LATCH LEVER: 200 SERIES ARTEFACT SQUARE CORNER LOCKWOOD 96 LEVER SATIN CROME FINISH LOCKWOOD PLATE 20001NA ON EXTERNAL SIDE KEY LOCK LOCKWOOD PLATE 20139NN ON COMPARTMENT 1 SIDE DISBALED TURNSIB HINGE: 4 x LANE BUTT HINGE - LANE 8588SS 100 x 75mm SSS DOOR CLOSER: LOCKWOOD HEAVY DUTY SELF CLOSING DOOR CLOSER OR EQUIVALENT; FLOOR STOP; STEEL KICK PLATE UP TO 600mm FROM FFL ON PUSH SIDE OF DOOR



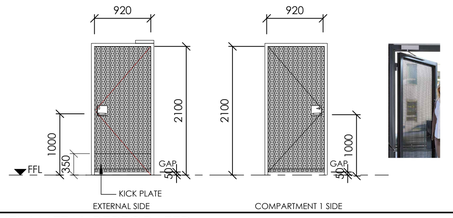
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SIZE	920mm x 2100mm
DOOR TYPE	SOLID CORE DOORS (FRL -/240/30)
LOCATION	COMPARTMENT 1
FINISHES	PAINT FINISH INTERNAL TO MATCH DOOR D-E1, EXTERNAL REFER FINISHES SCHEDULE
NOTES	LOCK: LOCKWOOD SYNERGY 3541 SHORT BACKSET DOUBLE CYLINDER DEAD LATCH LEVER: 200 SERIES ARTEFACT SQUARE CORNER PLATE FURNITURE LOCKWOOD PLATE (EXTERNAL SIDE) 20001NA ON COMPARTMENT 1 SIDE KEY LOCK LOCKWOOD 96 LEVER SATIN CROME FINISH LOCKWOOD PLATE (COMPARTMET 1 SIDE) 20139NN ON COMPARTMENT 2 & SIDE DISBALED TURNSIB HINGE: 4 x LANE BUTT HINGE - LANE 8588SS 100 x 75mm SSS DOOR CLOSER: LOCKWOOD HEAVY DUTY SELF CLOSING DOOR CLOSER OR EQUIVALENT; FLOOR STOP; STEEL KICK PLATE UP TO 600mm FROM FFL ON PUSH SIDE OF DOOR



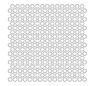
DOOR NUMBER	D N2 D N3 D N8 D N9 D N10 NEW SOLID TIMBER CORE DOORS
SIZE	920mm x 2100mm
DOOR TYPE	SOLID CORE DOORS (FRL -/60/30)
LOCATION	COMPARTMENT 1
FINISHES	PAINT FINISH TO MATCH DOOR D-E1
NOTES	LOCK: LOCKWOOD SYNERGY 3541 SHORT BACKSET DOUBLE CYLINDER DEAD LATCH LEVER: 200 SERIES ARTEFACT SQUARE CORNER PLATE FURNITURE LOCKWOOD PLATE 20001NA ON EXTERNAL SIDE KEY LOCK LOCKWOOD 96 LEVER SATIN CROME FINISH LOCKWOOD PLATE 20139NN ON COMPARTMENT 1 SIDE DISBALED TURNSIB HINGE: 4 x LANE BUTT HINGE - LANE 8588SS 100 x 75mm SSS DOOR CLOSER: LOCKWOOD HEAVY DUTY SELF CLOSING DOOR CLOSER OR EQUIVALENT; FLOOR STOP; STEEL KICK PLATE UP TO 600mm FROM FFL ON PUSH SIDE OF DOOR



DOOR NUMBER	D N4 NEW FIRE SOLID TIMBER CORE DOORS (OPENING TO BE PROECTED TO COMPLY WITH BCA C4D5)
SIZE	920mm x 2100mm
DOOR TYPE	SOLID CORE DOORS (FRL -/60/30)
LOCATION	COMPARTMENT 1
FINISHES	PAINT FINISH TO MATCH DOOR D-E1
NOTES	LOCK: LOCKWOOD SYNERGY 3541 SHORT BACKSET DOUBLE CYLINDER DEAD LATCH LEVER: 200 SERIES ARTEFACT SQUARE CORNER PLATE FURNITURE LOCKWOOD PLATE 20001NA ON EXTERNAL SIDE KEY LOCK LOCKWOOD 96 LEVER SATIN CROME FINISH LOCKWOOD PLATE 20139NN ON COMPARTMENT 1 SIDE DISBALED TURNSIB HINGE: 4 x LANE BUTT HINGE - LANE 8588SS 100 x 75mm SSS DOOR CLOSER: LOCKWOOD HEAVY DUTY SELF CLOSING DOOR CLOSER OR EQUIVALENT; FLOOR STOP; STEEL KICK PLATE UP TO 600mm FROM FFL ON PUSH SIDE OF DOOR



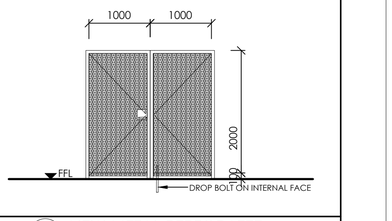
DOOR NUMBER	D N5 D N6 NEW METAL PERFORATED DOORS
SIZE	920mm x 2100mm
DOOR TYPE	STEEL FRAMED PERFORATED METAL DOOR
LOCATION	PLANT ROOM
FINISHES	REFER FINISHES SCHEDULE FOR COLOUR
NOTES	LOCK: LOCKWOOD SYNERGY 3541 SHORT BACKSET DOUBLE CYLINDER DEAD LATCH LEVER: 200 SERIES ARTEFACT SQUARE CORNER PLATE FURNITURE LOCKWOOD PLATE 20001NA ON EXTERNAL SIDE KEY LOCK LOCKWOOD 96 LEVER SATIN CROME FINISH LOCKWOOD PLATE 20139NN ON COMPARTMENT 1 SIDE DISBALED TURNSIB HINGE: 4 x LANE BUTT HINGE - LANE 8588SS 100 x 75mm SSS DOOR CLOSER: LOCKWOOD HEAVY DUTY DOOR CLOSER OR EQUIVALENT; FLOOR STOP; STEEL KICK PLATE UP TO 600mm FROM FFL ON PUSH SIDE OF DOOR


Perforations shown actual size

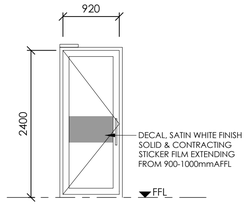

Enlarged Detail

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Fax. (03) 9465 5500
e-mail. sales@perftech.com.au

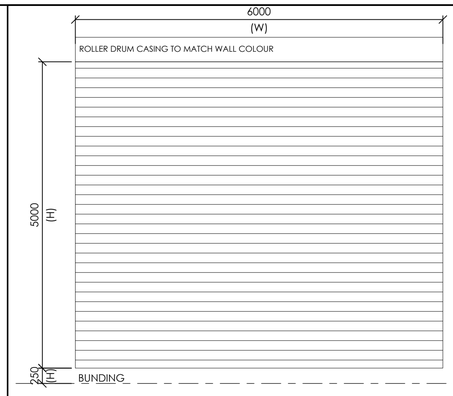
PART No.	P4783
FACTORY	Round staggered
HOLE SIZE	Ø 4.76 mm
PITCH	8.73 mm
OPEN AREA	51%



DOOR NUMBER	D N11 NEW METAL PERFORATED LOCKABLE GATES
SIZE	2LEAFS X1000mm x 2100mm
DOOR TYPE	STEEL FRAMED PERFORATED METAL GATE
LOCATION	NEW SPRINKLER ROOM
FINISHES	POWDER COATED FINISH -REFER FINISHES SCHEDULE FOR COLOUR
NOTES	LOCK: LOCKWOOD SYNERGY 3541 SHORT BACKSET DOUBLE CYLINDER DEAD LATCH LEVER: 200 SERIES ARTEFACT SQUARE CORNER PLATE FURNITURE LOCKWOOD PLATE 20001NA ON EXTERNAL SIDE KEY LOCK LOCKWOOD 96 LEVER SATIN CROME FINISH LOCKWOOD PLATE 20139NN ON COMPARTMENT 1 SIDE DISBALED TURNSIB LOCKABLE GATE MINIMUM 4 X HEAVY DUTY HINGES TO EACH GATE LEAF. EXTRA HEAVY DUTY FLOOR DROP BOLT MIN.300MM LONG FROM INTERNAL.



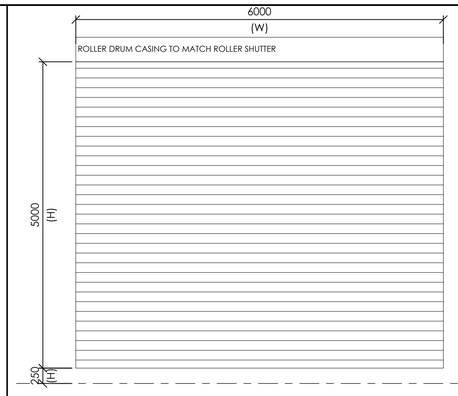
DOOR NUMBER	D N12 NEW OFFICE EXIT DOOR
	920mm x 2400mm
DOOR TYPE	ALUMINIUM FRAMED GLASS HINGE DOOR
LOCATION	GF OFFICE
FINISHES	NATURAL ANODIZE ALUMINIUM
NOTES	CAPRAL DOOR OR EQUIVALENT SHORT BACKSET MORTICE LOCK LOCKWOOOD PALLADIUM SERIES DOOR FURNITURE, GIDGEE L37 MODEL OR EQUIVALENT: KEYLOCK FROM OUTSIDE, FREE EGRESS AT ALL TIMES FROM INSIDE BY SINGLE ACTION ON SINGLE DEVICE 3x HEAVY DUTY HINGES LOCKWOOD HEAVY DUTY DOOR CLOSER; DOOR STOP;



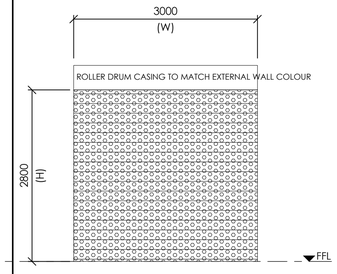
DOOR NUMBER	RS 1 RS 2 RS 3 EXTERNAL: MOTORIZED FIRE RATED ROLLER SHUTTER
SIZE	5000mm(H) x 6000(W)
DOOR TYPE	MOTORIZED FIRE RATED ROLLER SHUTTER DOOR (SELF & AUTOMATIC CLOSING)
LOCATION	COMPARTMENT 1
SUPPLIER	ASSA ABLOY FIRE RATED ROLLER SHUTTER OR EQUIVALENT
NOTES	FRL: ---/120/--- EXTERNAL ROLLER DRUM CASING - COLOURBOND COLOUR TO MATCH WALL



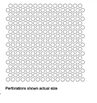
DOOR NUMBER	RS 1 RS 2 RS 3 INTERNAL: HIGH SPEED SHUTTER
SIZE	5000mm(H) x 6000(W)
DOOR TYPE	HIGH PERFORMANCE HIGH SPEED SHUTTER (SELF & AUTOMATIC CLOSING)
LOCATION	COMPARTMENT 1
SUPPLIER	ASSA ABLOY HIGH PERFORMANCE HIGH SPEED SHUTTER OR EQUIVALENT
NOTES	FRL: AS PER FIRE REPORT REQUIREMENT INTERNAL ROLLER DRUM CASING - COLOURBOND COLOUR TO SHUTTER



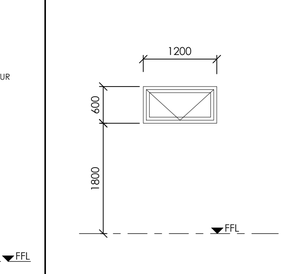
DOOR NUMBER	RS 4 RS 5 EXTERNAL: MOTORIZED FIRE RATED ROLLER SHUTTER
SIZE	5000mm(H) x 6000(W)
DOOR TYPE	MOTORIZED FIRE RATED ROLLER SHUTTER DOOR (SELF & AUTOMATIC CLOSING)
LOCATION	COMPARTMENT 2 & 3
SUPPLIER	ASSA ABLOY FIRE RATED ROLLER SHUTTER OR EQUIVALENT
NOTES	FRL: ---/240/--- REQUIREMENT FOR DRENCHERS AS PER FIRE ENGINEER PERFORMANCE SOLUTION & BUILDING SERVICE ENGINEER DOCUMENT EXTERNAL ROLLER DRUM CASING - COLOURBOND COLOUR TO ROLLER SHUTTER



DOOR NUMBER	RS 6 RS 7 MOTORIZED PERFORATED ROLLER SHUTTER
SIZE	2800mm(H) x 3000(W)
DOOR TYPE	MOTORIZED ROLLER SHUTTER DOOR
LOCATION	PLANT ROOM
SUPPLIER	ASSA ABLOY OR EQUIVALENT
NOTES	COLOUR TO MATCH WALL PERFERATE ROLLER SHUTTER 50% PERFORATION


Perforations shown actual size


Enlarged Detail



WINDOW NUMBER	W N1 W N2 W N3 NEW OFFICE WINDOW
	600mm x 1200mm
DOOR TYPE	ALUMINIUM FRAMED TOP HUNG WINDOW
LOCATION	GF OFFICE
FINISHES	NATURAL ANODIZE ALUMINIUM
NOTES	CAPRAL WINDOW SYSTEM OR EQUIVALENT DOUBLE GLAZE GL2 FINISH (REFER TO FINISHES SCHEDULE)

AMENDMENTS

1	29/08/23	70% CC Submission		WL			
2	01/09/23	70% CC Submission		WL			

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Member of the Surbana Jurong Group
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NOMINATED ARCHITECT: GARY WOLFF REG No: 17981

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CONTRACTOR
DEGNAN
PO BOX 336 OATLEY NSW 2223 | MO: 9584 0277 | 0439 032 216

PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL,
PRESTONS, NEW SOUTH WALES

DRAWING
DOOR & WINDOW SCHEDULE

NOTES
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Do not scale drawings, use figured dimensions only. Any discrepancies must be reported to the Architect for clarification. Drawings shall not be used for construction purposes until issued by Iwolff annotated as "For Construction".

DATE	01/09/2023
DRAWN	WL
SCALE	1:200@A1 1:400@A3
PROJECT NO.	22030
CHECK:	GW
DRAWING NUMBER:	CC-702
REVISION	2
SHEET	A1

CAD Directory: Z:\02_Projects\220302\2030_9 Whyalla Pl, Prestons, NSW\2.0_Drawings\01_CAD\05_CD\2030_Whyalla_CC_702

Prestons Waste Treatment Facility

Amendment Report

Appendix E2

Car park and stormwater management design

ARCADIS

SMEC

Member of the Surbana Jurong Group

HI QUALITY

PRESTON WASTE FACILITY

CARPARK AND STORMWATER MANAGEMENT DESIGN

LOCAL PEOPLE
GLOBAL EXPERIENCE



LOCALITY PLAN
NOT TO SCALE

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PH 02 9900-7100
E:WESTERNSYDNEY@SMEC.COM

REVISIONS IN PROGRESS

30019108.CC001 | 1

PLOT TIME: 11:11:43 am
PLOT DATE: 29/08/2023

DRAWING FILE LOCATION / NAME: C:\12dSdata\SMECSYN\30019108 - Preston Waste treatment Facility_1998\CAD\01_Dwg\02_CC\Preston Waste treatment Facility - Carpark\30019108.CC001.dwg

GENERAL NOTES:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL COUNCIL'S SPECIFICATIONS AND TO THE REQUIREMENTS OF COUNCIL'S ENGINEER.
2. NO TREES TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL'S LANDSCAPE COMPLIANCE OFFICER.
3. MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
4. NO WORK TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
5. VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
6. ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
7. THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY.
8. PERMANENT SURVEY CO-ORDINATION MARKS MUST BE PLACED WITHIN THE SUBDIVISION IN ACCORDANCE WITH THE SURVEYORS ACT AND REGULATIONS.
9. PLACE AND LEVEL NEW S.S.M.'S TO DEPARTMENT OF LAND & REGISTRY SERVICES REQUIREMENT IN POSITION AS DIRECTED BY THE CONSULTING SURVEYOR AND SHOW ON WORKS-AS-EXECUTED PLANS.
10. THE SITE MUST BE ENCLOSED WITH A SUITABLE TEMPORARY 'A' CLASS TYPE HOARDING OR SECURITY FENCE OF A TYPE APPROVED BY THE CONSENT AUTHORITY. SUCH HOARDING MUST NOT ENCROACH UPON THE ROAD RESERVE OR OTHER PRIVATE LAND WITHOUT THE WRITTEN CONCURRENCE OF THE AFFECTED PROPERTY OWNER. IF IT IS PROPOSED TO LOCATE SUCH A HOARDING WITHIN ANY PROPERTY OWNED/CONTROLLED BY CAMPBELLTOWN COUNCIL, A PUBLIC ROAD ACTIVITY APPLICATION MUST BE SUBMITTED TO AND APPROVED BY COUNCIL, PRIOR TO THE HOARDING BEING ERECTED.
11. CONSTRUCTION ACCESS FROM PUBLIC PLACES I.E.. ROADS. RESERVES, PARKS, WALKWAYS AND THE LIKE, OTHER THAN THAT APPROVED BY THIS DEVELOPMENT CONSENT WILL NOT BE PERMITTED WITHOUT THE PRIOR CONSENT OF CAMPBELLTOWN COUNCIL.
12. PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE SITE A SIGN (MINIMUM SIZE OF 300mm X 400mm) MUST BE INSTALLED WITHIN THE SITE ADVISING OF THE FOLLOWING:
    - 12.1. FULL DETAILS OF THE PCA
    - 12.2. FULL DETAILS OF THE CONSTRUCTION CERTIFICATE
    - 12.3. FULL DETAILS OF DEVELOPMENT CONSENT, AND
    - 12.4. FULL DETAILS OF THE BUILDER/CONTRACTOR THE SIGN MUST BE LOCATED WITHIN THE SITE AND CLEARLY VISIBLE AND LEGIBLE FROM THE ROAD FOOTWAY, AND MUST BE DISPLAYED FOR THE DURATION OF THE CONSTRUCTION WORKS.
13. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.

ALL ELECTRONIC DATA SHOWN ON THESE PLANS ARE IN GDA 2020 MGA ZONE 56.

EARTHWORKS NOTES:

1. EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
2. COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 98% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS1289.5.1.1. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD ASI289.5.8.1 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
3. THE SUITABLY QUALIFIED GEOTECHNICAL ENGINEER, SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
4. IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL.
5. ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
6. PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 14 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
7. THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.
8. A MINIMUM 1 METRE WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD AND MAINTENANCE PERIODS.

STORMWATER NOTES:

1. ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED.
2. ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
3. DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
4. ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
5. ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2 METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
6. CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
7. ALL INTERALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
8. ALL INTERALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
9. INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTERALLOTMENT DRAINAGE LINES.
10. 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
11. ALL PLANS (BOTH DESIGN AND W.A.E.) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF.
12. ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
13. PIT LINTELS ARE TO BE STENCILED WITH APPLICABLE DISTINCTION STENCIL AVAILABLE FROM COUNCIL.
14. CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.
15. SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.

GEOTECHNICAL NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY, AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION. MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL IS TO BE UNDERTAKEN ON A REGULAR BASIS & AS PER COUNCIL'S DIRECTION.
2. TESTS SHALL BE UNDERTAKEN ON ANY PROPOSED FILL MATERIALS TO ENSURE THAT THEY DO NOT HAVE A HIGH DISPERSION POTENTIAL AS DEFINED BY THE EMERSON CRUMB/DISPERSION TESTS (AS1289 C8-1980).
3. ALL FILL SHALL BE COMPACTED TO NOT LESS THAN 98% OF STANDARD MAXIMUM DRY DENSITY AT -1% TO +3% OF STANDARD OPTIMUM MOISTURE CONTENT (MAXIMUM FILL HORIZONS OF 150mm TO 200mm). ALL AREAS WHICH HAVE TEST RESULTS LESS THAN 98% STANDARD SHOULD BE REWORKED AND RETESTED TO ENSURE COMPLIANCE, IN ACCORDANCE WITH A.S.A. 1289 TESTS 12 AND 13.
4. ALL FILL AREAS TO BE SURVEYED AT STRIPPING AND FINAL STAGES AND LEVELS SHOWN ON PLAN SHADED, (TOGETHER WITH CROSS SECTIONS AT MAXIMUM 20m C/C) AT WORKS-AS-EXECUTED STAGE AND CONTROLLED BY A REGISTERED SURVEYOR. 88B INSTRUMENT REQUIRED FOR ALL LOTS FILLED WITHIN THE BUILDING LINE.
5. ALL EARTHWORKS SHALL BE CONTROLLED AND CERTIFIED BY A N.A.T.A. REGISTERED LABORATORY. TWO COLLATED COPIES OF ALL TEST CERTIFICATES, ACCOMPANIED BY AN OVERALL SITE PLAN, CLEARLY INDICATING THE LOCATION OF EACH TEST AND FILL AREAS ETC., AND THE LABORATORY CERTIFICATE COVERING THE WHOLE OF THE AREA TESTED ARE TO BE FORWARDED TO COUNCIL UPON COMPLETION. TESTING IS TO BE TO LEVEL 1 AS3798 APPENDIX B2(A).
6. ALL RESIDENTIAL LOTS SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH THE LATEST EDITION OF THE GUIDELINES IN THE AUSTRALIAN STANDARD FOR RESIDENTIAL SLABS AND FOOTINGS AS 2870. PROVIDE TWO COPIES OF REPORT TO COUNCIL.

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150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DRAWING FILE LOCATION / NAME: C:\12dS\data\SMECSYN\30019108 - Preston Waste treatment Facility_1998\CAD\01_Dwg\02_CC\Preston Waste treatment Facility - Carpark\30019108.CC002.dwg
PLOT DATE: 29/08/2023 TIME: 11:11:40 am

EXTERNAL REFERENCE FILES

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
1	29/08/2023	DRAFT 70%	-	-

REVISION IN PROGRESS

TITLE	NAME
DRAFTER	Rivo.R
DRAFTING CHECK	Paul.D
DESIGNER	Rivo.R
DESIGN CHECK	MEHUL. P
PROJECT MANAGER	Benjamin.Q
PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING

DESIGNER

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SMEC PROJECT No. 300178164

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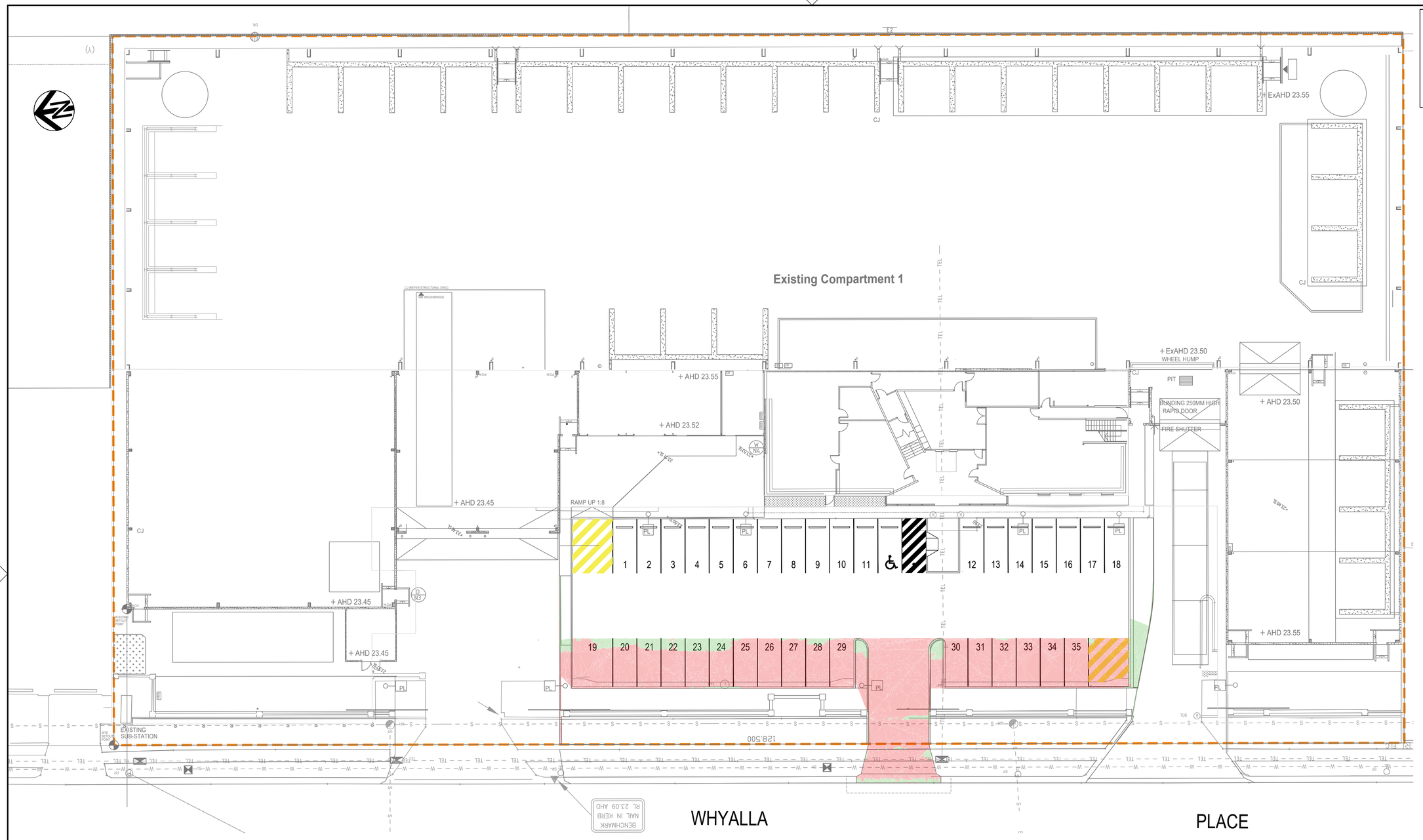
	PRELIM. INITIAL	FINAL DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
NOTES

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC002	1

CUT AND FILL VOLUME	
TOTAL CUT	-61 m³
TOTAL FILL	2.5 m³
EXCESS CUT OVER FILL	58.5 m³

VOLUME IS CALCULATED FROM FINISHED SURFACE TO EXISTING SURFACE



PLAN
SCALE 1:200

LEGEND	
	CUT
	FILL
K&G / KO	KERB & GUTTER / KERB ONLY
	EXISTING KERB AND GUTTER / ROLL KERB
W	EXISTING WATER LINE
S	EXISTING SEWER LINE
TEL	EXISTING COMMS LINE
	NO PARKING AREA
	SHARED AREA
	WHEEL STOP

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PLOT DATE: 29/08/2023 TIME: 11:16:08 am

EXTERNAL REFERENCE FILES:
- X_30019108_TITLE_BLOCK
- X_30019108_SURVEY
- X_30019108_BASE
- X_30019108_ARCHI
- X_30019108_CUT AND FILL DEPTH FACES

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	29/08/2023	DRAFT 70%	-	-

REVISION IN PROGRESS DRAFT

TITLE	NAME
DRAFTER	Rivo.R
DRAFTING CHECK	Paul.D
DESIGNER	Rivo.R
DESIGN CHECK	MEHUL. P
PROJECT MANAGER	Benjamin.Q
PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING
SCALE 1:200 (2 0 2 4 6 8 10)

DESIGNER
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PARRAMATTA NSW. 2150
PH +61 2 9900 7100
SMEC PROJECT No. 30019108

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	PRELIM. INITIAL	FINAL DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
CUT & FILL PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC051	1

A1 150 mm ON ORIGINAL

EXISTING WAREHOUSE
EX FFL 23.20

Existing Compartment 1

EXISTING OFFICE

DISABLED CAR PARK AND SHARED SPACE TO BE IN ACCORDANCE WITH AS2890.6

PROVIDE PRAM RAMP AT MAX 1:20 GRADE

MATCH TO EXISTING BOTTOM OF KERB

RUBBER WHEEL STOP TO BE IN ACCORDANCE WITH AS2890.1

RAMP UP 1:8

REFER TO ARCHITECT PLANS FOR PROPOSED EXTENSION

REFER TO ARCHITECT PLANS FOR PROPOSED EXTENSION

EXISTING SERVICES AFFECTED BY PROPOSED CARPARK EXTENSION TO BE RELOCATED. DETAILS BY OTHERS.

EXISTING SUB-STATION

EXISTING TELECOMMUNICATIONS PIT

EXISTING WATER MAIN INSPECTION OPENING

SAW CUT

BENCHMARK
NAIL IN KERB
RL 23.09 AHD

+ ExAHD 23.55
+ AHD 23.55
+ AHD 23.52
+ ExAHD 23.50
WHEEL HUMP
+ AHD 23.50
+ AHD 23.45
+ AHD 23.45
+ AHD 23.55
PIT
BUNDING 250MM HIGH RAPIS DOOR
FIRE SHUTTER
CJ
PL
TEL
5.40
6.50
4.90
4.00
2.40
6.00
7.50
8.40

WHYALLA PLACE

LEGEND

53.0	DESIGN CONTOUR
	BOUNDARY
K&G / KO	KERB & GUTTER / KERB ONLY
	EXISTING KERB AND GUTTER / ROLL KERB
W	EXISTING WATER LINE
S	EXISTING SEWER LINE
TEL	EXISTING COMMS LINE
	DRAINAGE PIPE WITH PIT
	PROPOSED ATLANTIS TURF CELL
	PROPOSED RIGID PAVEMENT
	EXISTING CONCRETE PAVEMENT TO BE RETAINED

PLAN
SCALE 1:200

	NO PARKING AREA
	SHARED AREA
	WHEEL STOP

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C:\12dS\data\SMECSYN\30019108 - Preston Waste treatment Facility_1998\CAD\01_Dwg\02_CC\Preston Waste treatment Facility - Carpark\30019108.CC101.dwg

PLOT DATE 29/08/2023 TIME 11:17:59 am

EXTERNAL REFERENCE FILES
K_30019108_TITLE_BLOCK
K_30019108_SURVEY
K_30019108_BASE
K_30019108_DRN
K_30019108_ARCH
K_30019108_HATCH

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	29/08/2023	DRAFT 70%	-	-

REVISION IN PROGRESS DRAFT

DRAFTER	Rivo.R
DRAFTING CHECK	Paul.D
DESIGNER	Rivo.R
DESIGN CHECK	MEHUL. P
PROJECT MANAGER	Benjamin.Q
PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING
SCALE 1:200 2 0 2 4 6 8 10

DESIGNER
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
LEVEL 6, 3 HORWOOD PLACE
PARRAMATTA NSW. 2150
PH +61 2 9900 7100
SMEC PROJECT No. 30019108

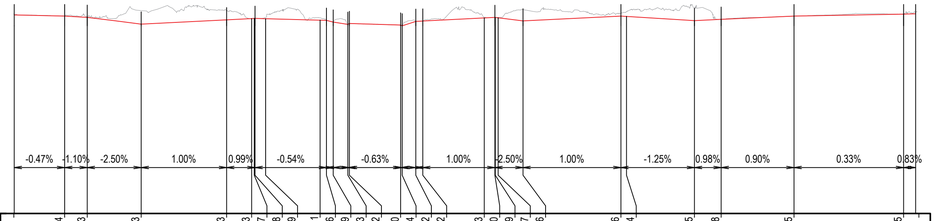
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	PRELIM. INITIAL	FINAL DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
CIVIL WORKS
PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC101	1

150 mm ON ORIGINAL
A1


HORIZONTAL CURVES
VERTICAL CURVES
GRADE
DATUM RL 17.00
-0.47%
-1.10%
-2.50%
1.00%
0.99%
-0.54%
-0.63%
1.00%
2.50%
1.00%
-1.25%
0.98%
0.90%
0.33%
0.83%

| | | |

EXISTING WAREHOUSE
EX FFL 23.20

Existing Compartment 1

+ ExAHD 23.55

+ ExAHD 23.50
WHEEL HUMP

PIT

BUNDING 250MM HIGH RAPID DOOR

FIRE SHUTTER

+ AHD 23.50

+ AHD 23.55

+ AHD 23.52

+ AHD 23.45

RAMP UP 1:8

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

PROPOSED ATLANTIS TURF CELL OR APPROVED EQUIVALENT

EXISTING CONCRETE PAVEMENT TO BE RETAINED

PROPOSED ATLANTIS TURF CELL OR APPROVED EQUIVALENT

PROPOSED FOOTPATH AND LANDSCAPE AREA TO BE GRADED TOWARDS PROPOSED DRIVEWAY

PROPOSED DRIVEWAY TO MATCH EXISTING SURFACE LEVEL AND REFER TO ARCHITECT PLAN FOR DETAILS

PROPOSED DRIVEWAY TO MATCH EXISTING SURFACE LEVEL AND REFER TO ARCHITECT PLAN FOR DETAILS

REFER TO ARCHITECT PLAN FOR REMOVAL OF EXISTING CONCRETE PAVEMENT

EXISTING FOOTPATH TO BE RETAINED

EXISTING SUB-STATION

MATCH TO EXISTING

PROPOSED DRIVEWAY TO BE BUILT IN ACCORDANCE WITH COUNCIL STANDARDS

MATCH TO EXISTING

PROPOSED DRIVEWAY TO BE BUILT IN ACCORDANCE WITH COUNCIL STANDARDS

MATCH TO EXISTING

PROPOSED DRIVEWAY TO BE BUILT IN ACCORDANCE WITH COUNCIL STANDARDS

WHYALLA PLACE

PLAN
SCALE 1:200

LEGEND	
53.0	DESIGN CONTOUR
	BOUNDARY
K&G / KO	KERB & GUTTER / KERB ONLY
	EXISTING KERB AND GUTTER / ROLL KERB
W	EXISTING WATER LINE
S	EXISTING SEWER LINE
TEL	EXISTING COMMS LINE
	DRAINAGE PIPE WITH PIT
	PROPOSED ATLANTIS TURF CELL
	PROPOSED RIGID PAVEMENT
	EXISTING CONCRETE PAVEMENT TO BE RETAINED
	NO PARKING AREA
	SHARED AREA
	WHEEL STOP

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PLOT DATE 29/08/2023 TIME 11:11:52 am

EXTERNAL REFERENCE FILES

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
1	29/08/2023	DRAFT 70%	-	-

REVISION IN PROGRESS DRAFT

TITLE	NAME
DRAFTER	Rivo.R
DRAFTING CHECK	Paul.D
DESIGNER	Rivo.R
DESIGN CHECK	MEHUL. P
PROJECT MANAGER	Benjamin.Q
PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING
SCALE 1:200 2 0 2 4 6 8 10

DESIGNER
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
LEVEL 6, 3 HORWOOD PLACE
PARRAMATTA NSW. 2150
PH +61 2 9900 7100
SMEC PROJECT No. 30019108

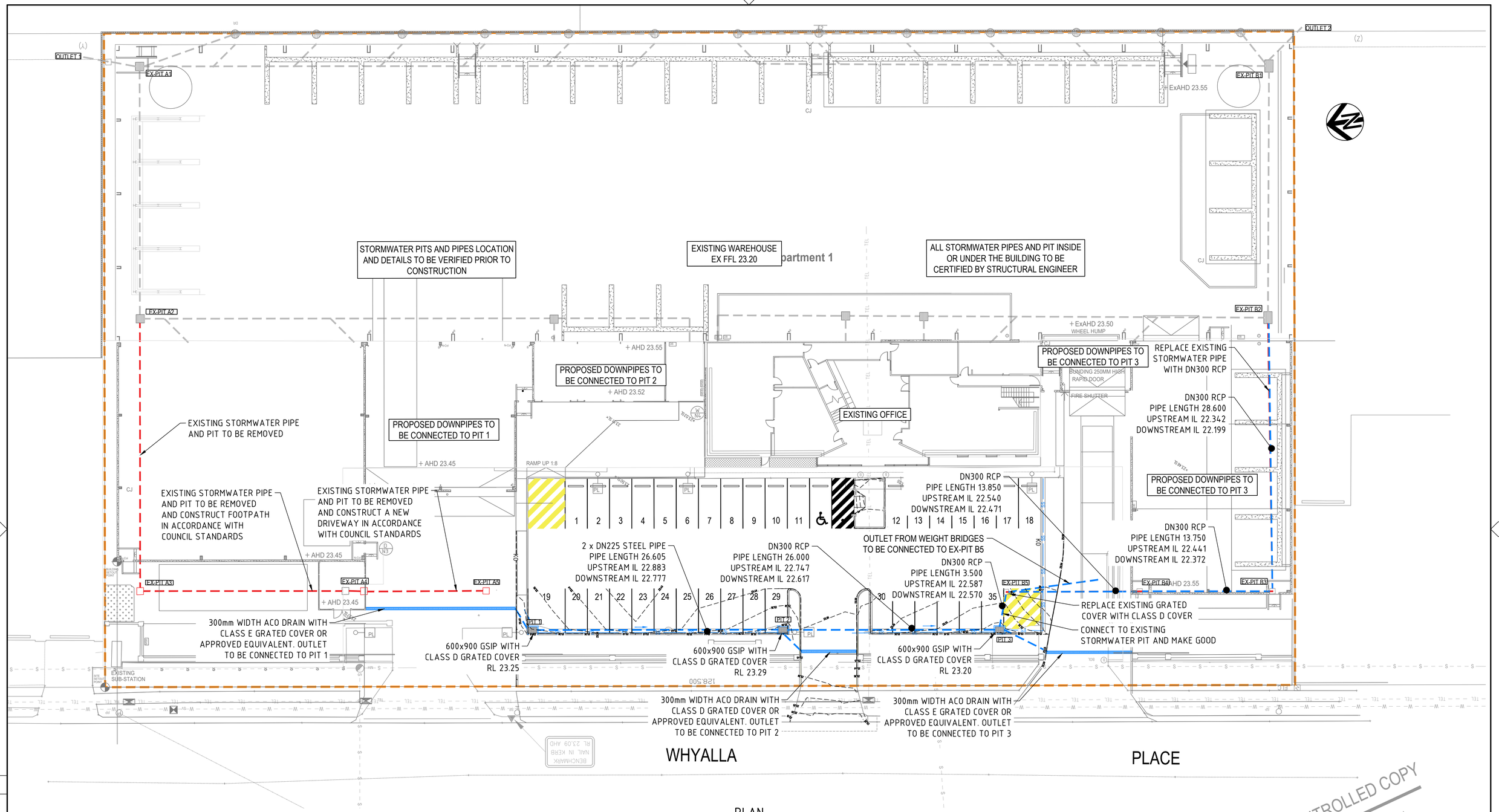
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DISCIPLINE		
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DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
PAVEMENT
PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC351	1

150 mm ON ORIGINAL
A1



PLAN
SCALE 1:200

LEGEND

53.0	DESIGN CONTOUR
	BOUNDARY
K&G / KO	KERB & GUTTER / KERB ONLY
	EXISTING KERB AND GUTTER / ROLL KERB
W	EXISTING WATER LINE
S	EXISTING SEWER LINE
TEL	EXISTING COMMS LINE
	PROPOSED STORMWATER PIT AND PIPE
	EXISTING STORMWATER PIT AND PIPE TO BE REMOVED
	EXISTING STORMWATER PIT AND PIPE
	NO PARKING AREA
	SHARED AREA
	WHEEL STOP

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PLOT DATE 29/08/2023 TIME 11:11:50 am

EXTERNAL REFERENCE FILES

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
1	29/08/2023	DRAFT 70%	-	-

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DESIGN CHECK	MEHUL. P
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PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING
SCALE 1:200 2 0 2 4 6 8 10

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PARRAMATTA NSW. 2150
PH +61 2 9900 7100
SMEC PROJECT No. 30019108

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DISCIPLINE		
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PROJECT TITLE
PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
STORMWATER MANAGEMENT PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC501	1

150 mm ON ORIGINAL
A1

OUTDOOR AREA 1
AREA 94 m²

OUTDOOR AREA 2
AREA 81 m²

OUTLET 1

OUTLET 2

EX-PIT A1

EX-PIT A2

EX-PIT A3

EX-PIT A4

EX-PIT A5

EX-PIT B1

EX-PIT B2

EX-PIT B3

EX-PIT B4

EX-PIT B5

WAREHOUSE ROOF 1
AREA 1018 m²

WAREHOUSE ROOF 2
AREA 1020 m²

WAREHOUSE ROOF 3
AREA 1030 m²

Existing Compartment 1

WAREHOUSE ROOF 4
AREA 1030 m²

OFFICE ROOF
AREA 556 m²

OUTDOOR AREA 3
AREA 871 m²

OUTDOOR AREA 4
AREA 462 m²

OUTDOOR AREA 5
AREA 585 m²

OUTDOOR AREA 6
AREA 735 m²

OUTDOOR AREA 7
AREA 589 m²

BYPASS
AREA 998 m²

+ ExAHD 23.55

+ AHD 23.55

+ AHD 23.52

+ AHD 23.50

+ AHD 23.45

+ AHD 23.45

+ AHD 23.45

+ AHD 23.55

+ ExAHD 23.50
WHEEL HUMP

RAMP UP 1:8

PIT

BINDING 250MM HIGH
RAPID DOOR

FIRE SHUTTER

EXISTING
SUB-STATION

BENCHMARK
RL 23.09 AHD
NAIL IN KERB

WHYALLA PLACE

1 2 3 4 5 6 7 8 9 10 11 13 14 15 16 17 18

19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

PIT 1

PIT 2

PIT 3

PIT 4

PL

CJ

TEL

OUTLET 1

QMINOR : 0.149 m³/s
MINOR OVERFLOW : 0 m³/s

QMAJOR :0.208 m³/s
MAJOR OVERFLOW : 0.018m³/s

OUTLET 2

QMINOR : 0.126 m³/s
MINOR OVERFLOW : 0.012m³/s

QMAJOR :0.177 m³/s
MAJOR OVERFLOW : 0.031m³/s

BYPASS

QMINOR : 0.024 m³/s

QMAJOR :0.041m³/s

LEGEND

53.0	DESIGN CONTOUR
	BOUNDARY
K&G / KO	KERB & GUTTER / KERB ONLY
	EXISTING KERB AND GUTTER / ROLL KERB
W	EXISTING WATER LINE
S	EXISTING SEWER LINE
TEL	EXISTING COMMS LINE
	PROPOSED STORMWATER PIT AND PIPE
	EXISTING STORMWATER PIT AND PIPE TO BE REMOVED
	EXISTING STORMWATER PIT AND PIPE

PLAN
SCALE 1:200

	NO PARKING AREA
	SHARED AREA
	WHEEL STOP

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PLOT DATE 29/08/2023 TIME 11:11:53 am

EXTERNAL REFERENCE FILES

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
1	29/08/2023	DRAFT 70%	-	-

REVISION IN PROGRESS
DRAFT

TITLE	NAME
DRAFTER	Rivo.R
DRAFTING CHECK	Paul.D
DESIGNER	Rivo.R
DESIGN CHECK	MEHUL. P
PROJECT MANAGER	Benjamin.Q
PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING
SCALE 1:200 2 0 2 4 6 8 10

DESIGNER
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
LEVEL 6, 3 HORWOOD PLACE
PARRAMATTA NSW. 2150
PH +61 2 9900 7100
SMEC PROJECT No. 30019108

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DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
EXISTING CATCHMENT PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC502	1

150 mm ON ORIGINAL
A1

OUTDOOR AREA 1
AREA 94 m²

OUTDOOR AREA 2
AREA 81 m²

OUTLET 1

OUTLET 2

EX-PIT A1

EX-PIT B1

EX-PIT A2

EX-PIT B2

BUILDING AREA
(DETAILS REFER TO
HYDRAULIC ENGINEER)

Existing Compartment 1

+ ExAHD 23.55

+ ExAHD 23.50
WHEEL HUMP

+ AHD 23.55

+ AHD 23.52

+ AHD 23.50

+ AHD 23.45

PIT

BUNDING 250MM HIGH
RAPID DOOR
FIRE SHUTTER

RAMP UP 1:8

OUTDOOR
AREA 3
AREA 229 m²

OUTDOOR AREA 4
AREA 314 m²

OUTDOOR AREA 5
AREA 349m²

OUTDOOR AREA 6
AREA 165m²

OUTDOOR AREA 7
AREA 371m²

OUTDOOR AREA 8
AREA 254m²

EX-PIT A3

EX-PIT A4

EX-PIT A5

EX-PIT B5

EX-PIT B4

EX-PIT B3

PIT 1

PIT 2

PIT 3

BYPASS
AREA 1000 m²

EXISTING
SUB-STATION

BENCHMARK
NAIL IN KERB
RL 23.09 AHD

WHYALLA PLACE

PLAN
SCALE 1:200

OUTLET 1 (DISCHARGE FROM RAINWATER TANK IS NOT INCLUDED IN THIS CALCULATION - REFER TO HYDRAULIC ENGINEER FOR DETAILS)

QMINOR	: 0.003 m³/s
MINOR OVERFLOW	: 0.000 m³/s
QMAJOR	: 0.005 m³/s
MAJOR OVERFLOW	: 0.000 m³/s

OUTLET 2 (DISCHARGE FROM RAINWATER TANK IS NOT INCLUDED IN THIS CALCULATION - REFER TO HYDRAULIC ENGINEER FOR DETAILS)

QMINOR	: 0.073 m³/s
MINOR OVERFLOW	: 0.000 m³/s
QMAJOR	: 0.088 m³/s
MAJOR OVERFLOW	: 0.026 m³/s

BYPASS

QMINOR	: 0.027 m³/s
QMAJOR	: 0.046 m³/s

LEGEND

53.0	DESIGN CONTOUR
	BOUNDARY
K&G / KO	KERB & GUTTER / KERB ONLY
	EXISTING KERB AND GUTTER / ROLL KERB
W	EXISTING WATER LINE
S	EXISTING SEWER LINE
TEL	EXISTING COMMS LINE
	PROPOSED STORMWATER PIT AND PIPE
	EXISTING STORMWATER PIT AND PIPE TO BE REMOVED
	EXISTING STORMWATER PIT AND PIPE
	NO PARKING AREA
	SHARED AREA
	WHEEL STOP

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PLOT DATE: 29/08/2023 TIME: 11:11:53 am

EXTERNAL REFERENCE FILES:

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
1	29/08/2023	DRAFT 70%	-	-

REVISION IN PROGRESS
DRAFT

TITLE	NAME
DRAFTER	Rivo.R
DRAFTING CHECK	Paul.D
DESIGNER	Rivo.R
DESIGN CHECK	MEHUL. P
PROJECT MANAGER	Benjamin.Q
PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING
SCALE 1:200 2 0 2 4 6 8 10

DESIGNER
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
LEVEL 6, 3 HORWOOD PLACE
PARRAMATTA NSW. 2150
PH +61 2 9900 7100
SMEC PROJECT No. 30019108

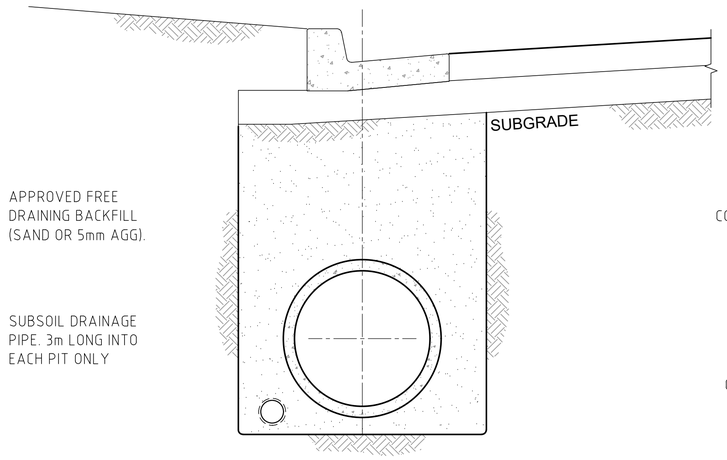
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DISCIPLINE		
DISCIPLINE		
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CONFIRMED		

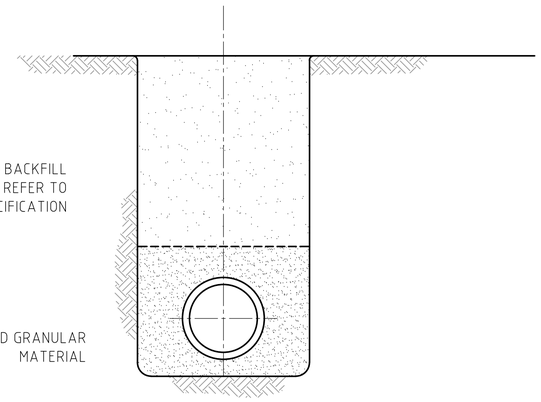
PROJECT TITLE
PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
PROPOSED CATCHMENT
PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC503	1

150 mm ON ORIGINAL
A1



TYPICAL PIPE BEDDING
STORMWATER DRAINAGE TRENCH
NTS



TYPICAL PIPE BEDDING
INTER-ALLOTMENT DRAINAGE TRENCH
NTS

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150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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PLOT DATE 29/08/2023 TIME 11:47:53 am

EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
X_30019108_TITLE_BLOCK X_30019108_SW DET	1	29/08/2023	DRAFT 70%		

REVISION IN PROGRESS
DRAFT

TITLE	NAME
DRAFTER	Rivo.R
DRAFTING CHECK	Paul.D
DESIGNER	Rivo.R
DESIGN CHECK	MEHUL. P
PROJECT MANAGER	Benjamin.Q
PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING

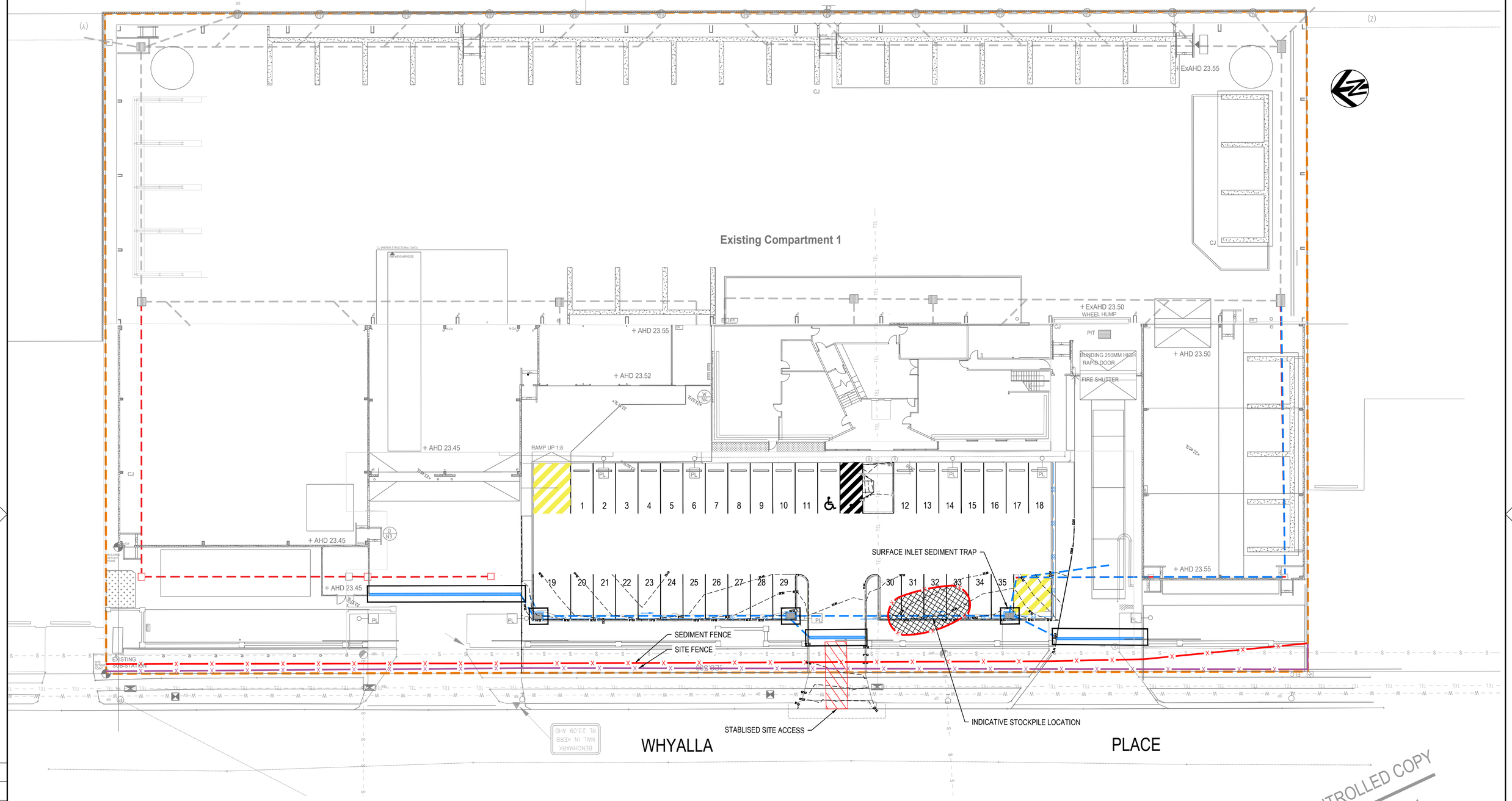
DESIGNER
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PARRAMATTA NSW 2150
PH +61 2 9900 7100
SMEC PROJECT No. 30019108

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DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
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CONFIRMED		

PROJECT TITLE
PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
TYPICAL DETAILS

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC550	1



PLAN
SCALE 1:200

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PLOT DATE 29/08/2023 TIME 11:11:50 am

EXTERNAL REFERENCE FILES

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SCALES AT A1 SIZE DRAWING
SCALE 1:200 2 0 2 4 6 8 10

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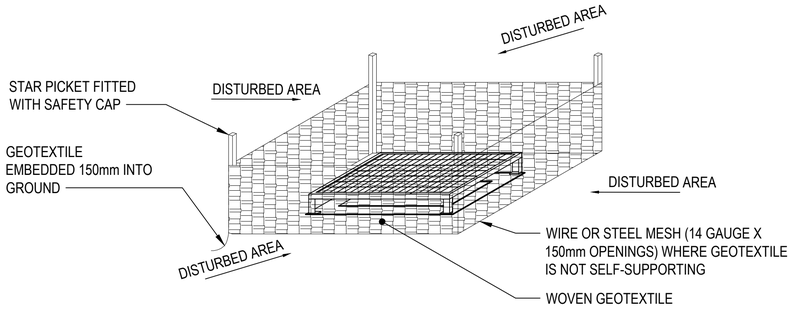
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DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
SOIL & WATER MANAGEMENT PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC851	1

150 mm ON ORIGINAL
A1

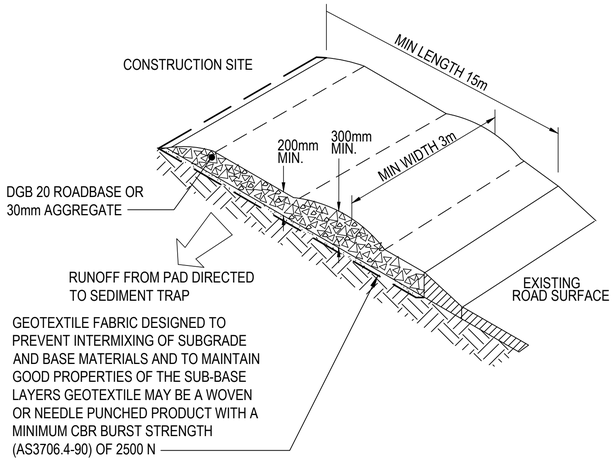


GEOTEXTILE INLET FILTER

SCALE N.T.S

CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. REDUCE THE PICKET SPACING TO 1m CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

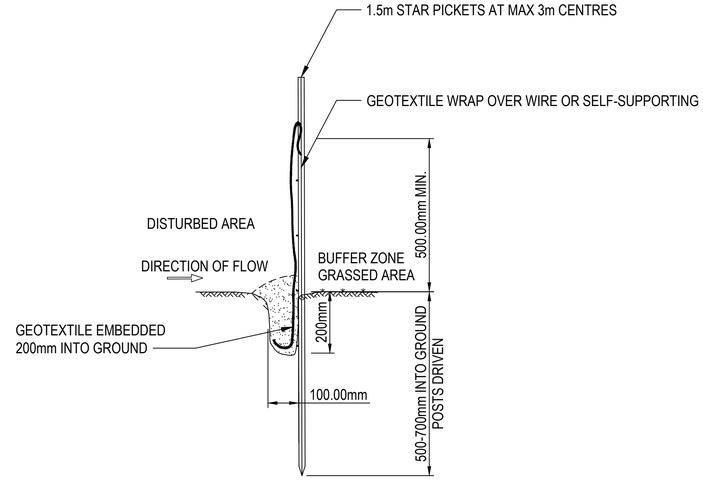


STABILISED SITE ACCESS

N.T.S.

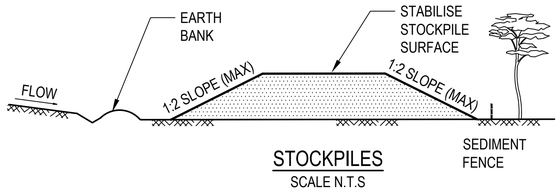
CONSTRUCTION NOTES:

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.



SEDIMENT FENCE

SCALE N.T.S

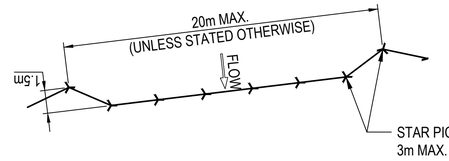


STOCKPILES

SCALE N.T.S

CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THEN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE ABLE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTHBANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES ANS SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.



CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO THE GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN THE SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

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MAX. 5 YEARS JAIL SENTENCE.

150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DRAWING FILE LOCATION / NAME: C:\12dS\data\SMECSYN\30019108 - Preston Waste treatment Facility_1998\CAD\01_Dwg\02_CC\Preston Waste treatment Facility - Carpark\30019108.CC852.dwg
PLOT DATE: 29/08/2023 TIME: 11:11:43 am

EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
	1	29/08/2023	DRAFT 70%		

REVISION IN PROGRESS DRAFT

TITLE	NAME
DRAFTER	Rivo.R
DRAFTING CHECK	Paul.D
DESIGNER	Rivo.R
DESIGN CHECK	MEHUL. P
PROJECT MANAGER	Benjamin.Q
PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING

DESIGNER

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SMEC PROJECT No. 30019108

CLIENT

CHECK PRINT

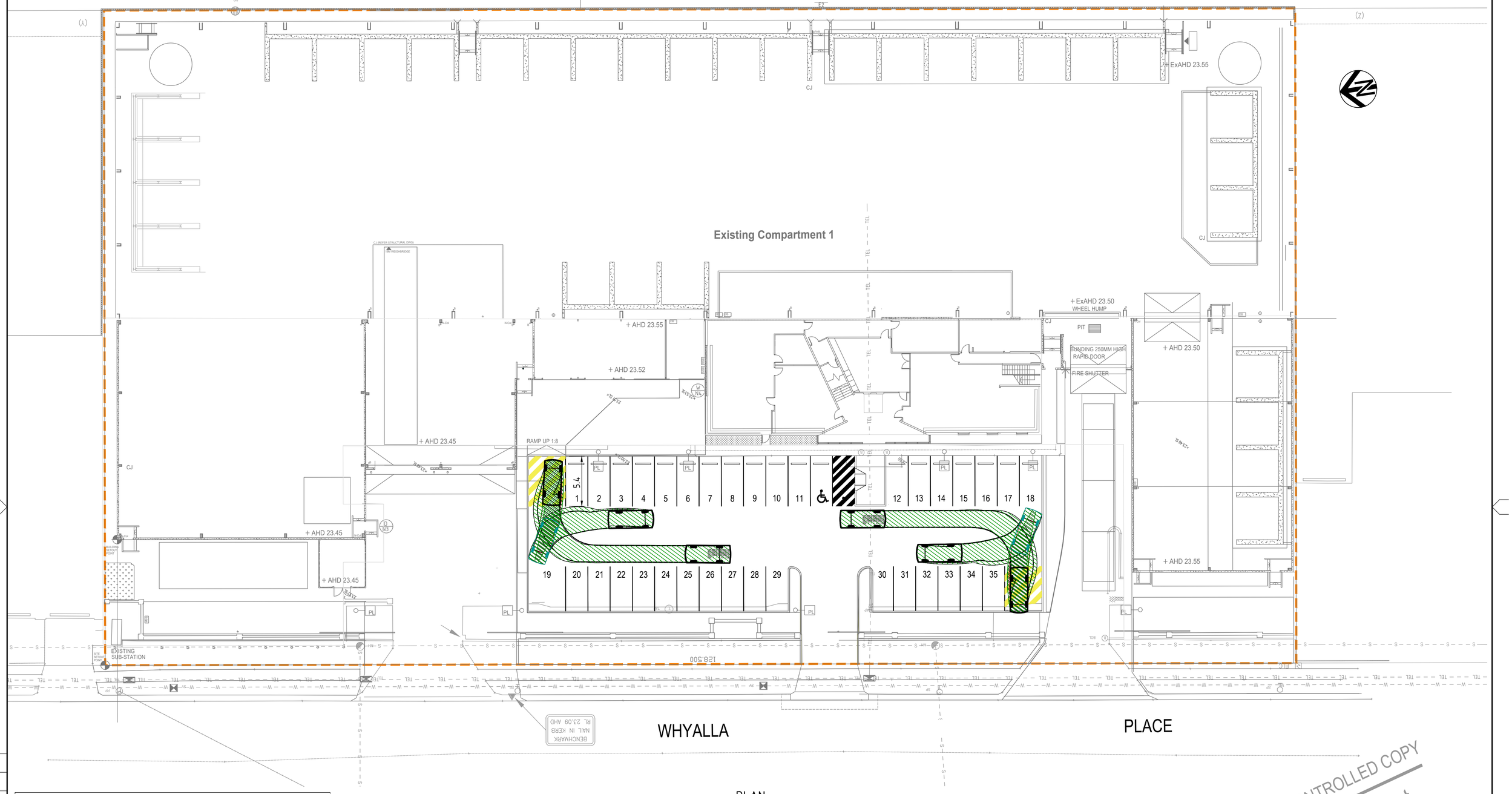
	PRELIM. INITIAL	FINAL DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE

PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN

SOIL & WATER MANAGEMENT DETAILS

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC852	1



PLAN
SCALE 1:200

LEGEND	
53.0	DESIGN CONTOUR
	BOUNDARY
K&G / KO	KERB & GUTTER / KERB ONLY
	EXISTING KERB AND GUTTER / ROLL KERB
W	EXISTING WATER LINE
S	EXISTING SEWER LINE
TEL	EXISTING COMMS LINE
	NO PARKING AREA
	SHARED AREA
	WHEEL STOP

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DRAWING FILE LOCATION / NAME: C:\12d\data\SMECSYN\30019108 - Preston Waste treatment Facility_1998\CAD\01_Dwg\02_CC\Preston Waste treatment Facility - Carpark\30019108.CC901 .dwg
PLOT DATE: 29/08/2023 TIME: 11:26:46 am

EXTERNAL REFERENCE FILES: X_30019108_TITLE_BLOCK, X_30019108_SURVEY, X_30019108_BLUE, X_30019108_ARCHI, X_30019108_HATCH, X_30019108_RIGCHILE TURNING PATH

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
1	29/08/2023	DRAFT 70%		

DRAFT REVISION IN PROGRESS

TITLE	NAME
DRAFTER	Rivo.R
DRAFTING CHECK	Paul.D
DESIGNER	Rivo.R
DESIGN CHECK	MEHUL. P
PROJECT MANAGER	Benjamin.Q
PROJECT DIRECTOR	Benjamin.Q

SCALES AT A1 SIZE DRAWING: SCALE 1:200 (2 0 2 4 6 8 10)

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CLIENT: CHECK PRINT

	PRELIM. INITIAL	FINAL DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE: PRESTON WASTE FACILITY
CARPARK AND STORMWATER DESIGN
VEHICLE SWEPT PATH PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS NOTED	PRELIMINARY	30019108.CC901	1

A1 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 150 mm ON ORIGINAL

Prestons Waste Treatment Facility

Amendment Report

Appendix E3

Fire services design

ARCADIS

PRESTONS WASTE TREATMENT FACILITY

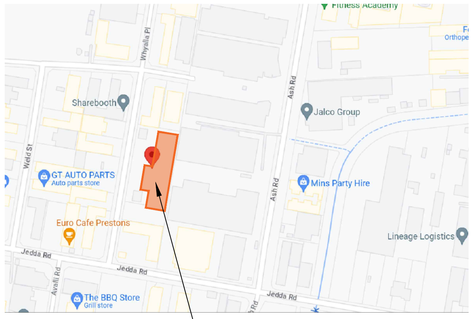
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

WET FIRE SERVICES

DRAWING LIST

F000	WET FIRE SERVICES COVER SHEET AND LEGENDS
F001	WET FIRE SERVICES NOTES AND SPECIFICATIONS
F200	WET FIRE SERVICES FIRE SPRINKLER LAYOUT
F300	WET FIRE SERVICES FIRE HYDRANT, HOSE REEL & EXTINGUISHER LAYOUT
F400	WET FIRE SERVICES TYPICAL DETAILS 1
F401	WET FIRE SERVICES TYPICAL DETAILS 2

LOCATION MAP



ABBREVIATIONS

FEX	FIRE EXTINGUISHER
FH	FIRE HYDRANT
FHR	FIRE HOSE REEL
H/L	HIGH LEVEL
SCV	SPRINKLER CONTROL VALVE

FIRE SPRINKLERS

	WHITE SEMI-RECCESSED CEILING SPRINKLER HEAD
F	WHITE FLUSH MOUNTED CEILING SPRINKLER HEAD
	CONCEALED SPACE SPRINKLER HEAD
	CONCEALED SPACE UPRIGHT SPRINKLER HEAD
	EXPOSED UPRIGHT SPRINKLER HEAD
	EXPOSED PENDANT SPRINKLER HEAD
	PENDANT SIDE WALL SPRINKLER HEAD
G	EXPOSED PENDANT SPRINKLER HEAD WITH GUARD
UD	EXPOSED PENDANT SPRINKLER HEAD - UNDER DUCT
HT	IN DUCT KITCHEN EXHAUST SPRINKLER HEAD (182O)
DT	DRY TYPE SPRINKLER HEAD - TYCO DS-1
	SIDE WALL SPRINKLER HEAD
M	MONITORED ISOLATING VALVE
SSV	SPRINKLER CONTROL VALVE
FHR	FIRE HOSE REAL
	DRENCHER
FH	INTERNAL FIRE HYDRANT

PORTABLE FIRE EXTINGUISHER LEGEND:

AB(E)	NEW DRY CHEMICAL FIRE EXTINGUISHER (4.5kG)
CO2	NEW CARBON DIOXIDE FIRE EXTINGUISHER (3.5kG)
WC	NEW WET CHEMICAL FIRE EXTINGUISHER (2L)
E	EXTISTING FIRE EXTINGUISHER

FIRE SPRINKLER PIPEWORK

	NEW Ø50 FIRE SPRINKLER MAIN (Ø50 AND ABOVE)
	NEW FIRE SPRINKLER PIPEWORK (Ø40 AND BELOW)
	NEW FIRE HOSE REEL PIPEWORK
	NEW FIRE HYDRANT PIPEWORK
	FIRE SPRINKLER PIPEWORK - FLEXIBLE PIPE
	FLOW DIRECTION ARROW
	PIPE RISE
	PIPE DROP
	PIPE TEE DOWN
	PIPE TEE UP
	CAPPED PIPE C/W CONTINUATION LINE

SPRINKLER HEAD MODIFIER

E	EXISTING SPRINKLER HEAD TO REMAIN
N	NEW SPRINKLER HEAD
E R	RELOCATE EXISTING SPRINKLER HEAD
D	EXISTING SPRINKLER HEAD TO BE DELETED/ABOLISHED

REV	DESCRIPTION	DATE
P1	70% PRELIMINARY ISSUE	29.08.23

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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DRAWING TITLE
WET FIRE SERVICES
COVERSHEET AND LEGENDS

SCALE	NTS	DATE	Aug-23	DRAWN	KR	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AL	CHECKED	AL	DRAWING NO.	F000

REVISION P1

SPECIFICATION NOTES:

COMPLYING TENDER SUBMISSION

- TENDERERS SHALL CONDUCT THEIR OWN INVESTIGATION AND SITE VISIT TO THOROUGHLY INSPECT THE PROJECT SITE PRIOR TO TENDERING TO TAKE INTO ACCOUNT ANY CONDITIONS LIKELY TO AFFECT THE EXTENT OR PERFORMANCE OF THE CONTRACT. FAILURE TO DO SO WILL FORFEIT ANY CLAIM FOR NOT BEING AWARE OF CONDITIONS AFFECTING THE TENDER. ALL SITE VISIT SHALL BE ARRANGED THROUGH THE SUPERINTENDENT (REFER TO THE MAIN CONTRACT FOR DETAILS).
- TENDERERS SHALL STRICTLY ADHERE TO THE TYPES OF FIRE SERVICES PLANTS AND EQUIPMENT DETAILED IN THE DESIGN DRAWINGS AND SPECIFICATIONS. WHERE THE TENDERER WISH TO OFFER AN ALTERNATIVE, THIS SHALL BE MADE CLEAR IN THE TENDER SUBMISSION. REFER TO THE 'ALTERNATIVES' SECTION FOR ALL OTHER REQUIREMENTS.
- WHERE NO ALTERNATIVES WERE NOTED IN THE TENDER SUBMISSION, IT SHALL BE DEEMED THAT ALL MATERIALS AND PLANTS NOMINATED IN THE CONTRACT DOCUMENTS WILL BE PROVIDED.

EXISTING SERVICES

- THE CONTRACTOR SHALL MAKE ALLOWANCE WITHIN THE TENDER TO INVESTIGATE AND PROVE ON SITE THE LOCATION OF ALL EXISTING SERVICES PRIOR TO ANY WORKS.
- THE CONTRACT DOCUMENTS ARE INDICATIVE ONLY BASED ON INFORMATION AVAILABLE AT THE TIME OF DOCUMENTATION FROM THE LOCAL COUNCIL AND VARIOUS SERVICES AUTHORITIES.
- ALL REDUNDANT SERVICES INCLUDING AUTHORITY SERVICES SHALL BE CUT & SEALED AT THE MAIN. DISCONNECTIONS SHALL BE BY AUTHORITY APPROVED CONTRACTOR & TO THE APPROVAL OF THE RELEVANT AUTHORITY.

APPLICATIONS, FEES & CHARGES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL REQUIRED AUTHORITY APPLICATIONS. UNLESS SPECIFICALLY EXCLUDED IN THE TENDER SUBMISSION, THE CONTRACTOR SHALL PAY ALL FEES & CHARGES RENDERED BY THE RESPECTIVE AUTHORITIES IN REFERENCE TO THE PROJECT.

AUTHORITIES & STANDARDS

- ALL WORK SHALL COMPLY IN EVERY WAY WITH THE REQUIREMENTS OF THE FOLLOWING AUTHORITIES. AUTHORITIES & LEGISLATION:
  - NATIONAL CONSTRUCTION CODE
  - AS3500 (ALL PARTS)
  - AS2118.1
  - AS2419.1
  - AS2441
  - AS2444
  - LOCAL FIRE BRIGADE
  - FIRE ENGINEERING REPORT
  - BASE BUILDING GUIDELINES
- THE WHOLE OF THE WORK SHALL BE CARRIED OUT BY OR UNDER THE FULL SUPERVISION OF A FULLY LICENSED CONTRACTOR IN ACCORDANCE WITH THE DRAWINGS & SPECIFICATION, REVIEWED BY THE SUPERINTENDENT & APPROVED BY ALL RELEVANT AUTHORITIES.

FIRE ENGINEERING REPORT AND REGULATION 129 ITEMS

- THE CONTRACTOR SHALL REQUEST A COPY OF THE FIRE ENGINEERING REPORT AND REGULATION 129 APPROVAL FROM THE SUPERINTENDENT. ALL WORKS SHALL BE IN ACCORDANCE WITH THE REPORT/APPROVAL INCLUDING SIGNAGES.

SYSTEM DESIGN CRITERIA & CALCULATIONS

- AS2118.1-2017 - HIGH HAZARD
- THE CONTRACTOR MUST CARRY OUT HIS OWN HYENA CALCULATION TO DETERMINE FINAL PIPE SIZES. PROVIDE A COPY OF THE CALCULATION TO THE RELEVANT BUILDING SURVEYOR.

WARRANTY

- THE COMPLETE WORK SHALL BE WARRANTED FOR 12 MONTHS FROM THE DATE OF BUILDING HANDOVER AGAINST DEFECTIVE WORKMANSHIP AND MATERIALS AND AGAINST NON-COMPLIANCE WORK WITH SPECIFIED PERFORMANCE OR OPERATION AS OUTLINED IN THE CONTRACT DOCUMENTS.
- DURING THE WHOLE OF THE 12 MONTHS WARRANTY PERIOD, THE CONTRACTOR SHALL CARRY OUT ALL MAINTENANCE & RECTIFICATION WORK REQUIRED.

WORKMANSHIP

- ALL WORK SHALL BE AT LEAST EQUAL OR BETTER THAN THE APPROPRIATE CURRENT AUSTRALIAN STANDARD
- ALL WORKMANSHIP SHALL BE OF A HIGH STANDARD THROUGHOUT AS ACCEPTED BY THE RESPECTIVE SPECIALIST TRADES, WHERE THE SUPERINTENDENT. ENGINEER CONSIDERS THAT THE WORKMANSHIP IS NOT CONSISTENT WITH GOOD TRADE PRACTICES OR STANDARDS OR THAT ANY PLANT IS INFERIOR IN QUALITY TO THAT SPECIFIED (NOT WITHSTANDING THAT A PROGRESS PAYMENT MAY HAVE BEEN MADE IN RESPECT THEREOF), THE WORK WILL BE REJECTED. REJECTED WORK OR MATERIALS SHALL BE REMOVED WITHIN 24 HOURS OF SUCH REJECTION. DEFECTIVE WORK SHALL BE RECONSTRUCTED TO CONFORM TO THE SPECIFIED REQUIREMENTS AT NO COST TO THE PROJECT.
- ALL MATERIALS, EQUIPMENT & SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFIC RECOMMENDATIONS OF THE MANUFACTURER, INCLUDING THE PROVISION OF ANCILLARY OR SAFETY DEVICES DEEMED NECESSARY. FAILURE TO DO WILL RESULT IN THE EQUIPMENT/SYSTEM BE REJECTED BY THE SUPERINTENDENT.

CERTIFICATION OF WORKS

- ISSUE A CERTIFICATE OF COMPLIANCE BEFORE THE DATE OF PRACTICAL COMPLETION STATING THAT THE COMPLETED WORK COMPLIED WITH ALL THE REQUIREMENTS OF THE SPECIFICATION AS WELL AS THE RELEVANT AUSTRALIAN STANDARDS AND REGULATIONS.

CONTRACT DOCUMENTS

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS, REPORTS & APPROVALS FROM VARIOUS OTHER DESIGN CONSULTANTS & AUTHORITIES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, LANDSCAPING GEOTECHNICAL, FIRE ENGINEERING, BUILDING SURVEYOR & THE LOCAL FIRE BRIGADE.
- THE DESIGN DRAWINGS HAVE BEEN COORDINATED INTERNALLY DURING DESIGN DOCUMENTATION PERIOD. HOWEVER, THE CONTRACT IS FULLY RESPONSIBLE FOR ALL NECESSARY WORK COORDINATION BETWEEN TRADES OR OTHER SERVICES TO DETERMINE PROJECT REQUIREMENTS, WORKFLOW AND TO ELIMINATE CLASHES INCLUDING COORDINATION WITH THE BUILDER PRIOR TO ANY WORK.
- THE DRAWINGS INDICATE THE APPROXIMATE POSITIONS & NUMBER OF SANITARY FIXTURES & OTHER ITEMS REQUIRING CONNECTION TO THE FIRE SERVICES. ALLOW FOR ALL NECESSARY DIVERSIONS & MINOR ADJUSTMENTS OF PIPE WORK & EQUIPMENT AS MAY BE NECESSARY TO CARRY OUT THE WORK AS REQUIRED & AS NECESSARY TO COMPLETE THE WORKS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF EQUIPMENT & COORDINATE WITH OTHER SERVICES WHERE APPLICABLE.
- THE CONTRACT DOCUMENTS ARE INTENDED TO CALL FOR A FULLY INSTALLED, SAFE AND OPERATIONAL SYSTEM TO THE REQUIREMENT OF THE PROJECT SPECIFICATION OR ANY GOVERNING LEGISLATION/AUTHORITY. PROVIDE ALL REQUIRED MINOR ITEMS, EQUIPMENT, ACCESSORIES AND INCIDENTAL WORK REQUIRED FOR THE COMPLETION OF THE INSTALLATION AND TO ENSURE FULL INTEGRATION AND FULL PERFORMANCE OF THE SYSTEM AS INTENDED.

DIMENSIONS & LEVELS

- ALL DIMENSIONS SHALL BE CHECKED ON BOTH THE ARCHITECTURAL DRAWINGS & ON-SITE. DO NOT SCALE FROM DRAWINGS. ALL WORK SHALL BE SET OUT ON -SITE TO SUIT ACTUAL DIMENSIONS.
- INVERT & SURFACE LEVELS SHOWN ON DRAWINGS ARE GENERALLY INTERPOLATED OR DETERMINED FROM CO-ORDINATION WITH STRUCTURAL, MECHANICAL & ARCHITECTURAL DRAWINGS AT THE TIME OF DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE LATEST DRAWING/INFO PRIOR TO WORK TO ESTABLISH THE ACTUAL INVERT LEVEL OF THE POINT O CONNECTION TO EXTERNAL CONNECTION POINTS. DETERMINE ALL OBSTRUCTION AND CONFIRM THAT THE PIPE ROUTE AS SHOWN ON THE DRAWINGS CAN BE CONSTRUCTED TO CORRECT FALLS AND LEVELS PRIOR TO ORDERING MATERIAL OR CARRYING OUT ANY WORK.
- ADVISE THE SUPERINTENDENT OF ANY APPARENT DISCREPANCIES BEFORE THE COMMENCEMENT OF ANY WORK; CLAIMS FOR REDUNDANT WORK AS A RESULT OF FAILING TO DO SO SHALL NOT BE CONSIDERED VALID.

AS-BUILT DRAWINGS / OPERATION & MAINTENANCE MANUALS

- AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE SUPERINTENDENT. ALL AS-BUILT DOCUMENTATION MUST INCLUDE SUBMISSION REQUIREMENTS AS FOLLOWS:

PIPING

- ALL PIPING SHALL CONFORM TO THE AUSTRALIAN STANDARDS & BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. PIPELINES SHALL BE INSTALLED USING THE LOWEST PRACTICABLE LEVEL IN THE CEILING SPACE TO CONFORM TO REGULATIONS. PIPE RUNS SHALL BE CHANGED TO UNDERSTATE WORKMANSHIP AND NOT WORK CONSCIOUS
- THE AS-BUILT DRAWING CANNOT BE A COPY & PASTE REPRODUCTION OF THE ENGINEER'S DESIGN DRAWINGS. THE DRAWINGS MUST SHOW THE CONTRACTOR'S COMPANY DETAILS INCLUDING LOGO AND A REGISTERED BUILDING PRACTITIONER NUMBER. THE MARKINGS MUST BE CLEARLY LEGIBLE AND SHOW ACTUAL WORK DONE ON SITE. ANY DEVIATION FROM UNDERSTAMP DRAWINGS AS RESULT FROM SITE COORDINATION CLIENT CHANGES MUST BE
- PIPELINE DRAWINGS
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH AN ADHESIVE LABEL OR TAPE STOP-LOCK
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED USING THE APPROPRIATE COLOUR CODE AS PER AS1345 TO COMPLY WITH WORKCOVER REGULATIONS
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH DIRECTIONAL ARROWS TO INDICATE FLOW DIRECTION
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH THE CONTENTS TO COMPLY WITH WORKCOVER REGULATIONS
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH THE PRESSURE RATING
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH THE FLOW RATE
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH THE SYSTEM NAME
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH THE SYSTEM NUMBER
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH THE SYSTEM DIAGRAM
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH THE SYSTEM SCHEDULE
  - ALL PIPELINES SHALL BE CLEARLY IDENTIFIED WITH THE SYSTEM MAINTENANCE & REROUTING TO AVOID OBSTRUCTION MUST BE SHOWN ON THE DRAWINGS
  - INFORMATION TO INCLUDE - SERVICE ROUTE, SIZE, MATERIAL, OFFSET, DROPPERS, RISERS, VALVES, ETC
  - ONE COPY OF MAINTENANCE MANUAL & SCHEDULE INDICATING ALL ITEMS OF EQUIPMENT & THOSE REQUIRING SERVICE
  - COMMISSIONING & TESTING RESULTS

MATERIALS

- SUPPLY OF MATERIALS - SUPPLY & FIX ALL MATERIALS REQUIRED TO COMPLETE THE WORKS. ALL MATERIALS SHALL BE FIRST QUALITY & THE BEST OF THEIR RESPECTIVE KINDS. SECOND QUALITY OR INFERIOR MATERIALS SHALL BE REJECTED. ALL COSTS ASSOCIATED WITH REPLACEMENT OF REJECTED MATERIALS SHALL BE BORNE BY THE PLUMBING CONTRACTOR. ALL MATERIALS SHALL CONFORM TO THE LATEST AUSTRALIAN STANDARD SPECIFICATION, CODE OR INTERIM CODE. IF NO AUSTRALIAN STANDARD EXISTS, THEY SHALL CONFORM TO THE LATEST BRITISH STANDARD OR THE AMERICAN SOCIETY FOR TESTING & MATERIALS IN THAT ORDER.
- ALL MATERIALS MUST BE APPROVED BY THE LOCAL AUTHORITY & 'WATERMARKED'.

REJECTION OF UNSATISFACTORY MATERIALS

- REJECTED MATERIALS SHALL BE MARKED BY THE PLUMBING CONTRACTOR & REMOVED FROM THE SITE.

COPPER TUBE & FITTINGS

- COPPER TUBE SHALL:
  - CONFORM TO AS1432 - COPPER TUBES FOR PLUMBING, GAS FITTING & DRAINAGE APPLICATIONS.
  - BE INSTALLED IN ACCORDANCE WITH AS4809
  - BE TYPE A WHERE LOCATED UNDER BUILDINGS.
  - BE TYPE B FOR FIRE HOSE REEL.
  - JOINTING - BE JOINTED WITH SILVER SOLDER CONTAINING NOT LESS THAN:
  - 5% SILVER SOLDER & 6mm LAPPED JOINTS FOR PRESSURE SUPPLY PIPES.
- FITTINGS FOR COPPER TUBE SHALL:
  - CONFORM TO AUSTRALIAN STANDARD AS3688 - WATER SUPPLY - COPPER & COPPER ALLOY COMPRESSION & CAPILLARY FITTINGS & THREADED-END CONNECTORS.
  - BE DEZINCIFIED BRASS OR COPPER SUITABLE FOR JOINTING BY SILVER SOLDER.
  - MINIMUM WALL THICKNESS SHALL BE NOT LESS THAN THE TUBE THICKNESS IT SERVES.
  - BE FIRST QUALITY HIGH-PRESSURE FITTINGS FOR RISING MAINS.

FIRE SPRINKLER SYSTEM

- ALL SPRINKLER PROTECTION MUST BE FULLY COORDINATED WITH BUILDER, MECHANICAL & ELECTRICAL CONTRACTOR TO ALLOW FOR NEW DUCTWORKS, BEAMS, CEILINGS, CABLE TRAYS, ETC
- COORDINATE ALL MONITORED VALVES, FLOW SWITCHES, ETC WITH ELECTRICAL DRY FIRE CONTRACTOR.

FIRE HOSE REEL

- SUPPLY & INSTALL A HOSE REEL SERVICE TO THE LOCATIONS SHOWN ON THE DRAWINGS. INCLUDE FOR ALL PIPING, FITTINGS, VALVES, HOSE REEL, TO THE LOCATIONS SHOWN ON THE DRAWINGS & OTHER SUNDRY ITEMS OF EQUIPMENT AS REQUIRED FOR THE INSTALLATION.
- PIPEWORK SHALL BE CONSTRUCTED OF COPPER TUBE - TYPE B TO AS1432
- THE HOSE REEL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS2441 & THE BUILDING CODE OF AUSTRALIA.

VALVES

- ALL SYSTEM VALVES INCLUDING THE WATER METER, WHICH CAN ISOLATE FLOW IN THE HOSE REEL WATER SUPPLY MAIN, SHALL BE SECURED IN THE OPEN POSITION BY A PADLOCKED METAL STRAP & HAVE ATTACHED AN ENGRAVED NON FERROUS METAL TAG WITH 8mm UPPER CASE WORDING:
  a. "FIRE SERVICE VALVE CLOSE ONLY TO SERVICE FIRE HOSE REELS"
  b. THE PADLOCKS SHALL BE A 003-TYPE.

FIRE HYDRANT SYSTEM

- THE FIRE HYDRANT SYSTEM IS TO BE DESIGNED, INSTALLED AND COMMISIONED IN ACCORDANCE WITH AS2419.1-2021, NATIONAL CONSTRUCTION CODE (NCC) - 2022, FIRE ENGINEERING REPORT, AND ALL MANUFACTURERS RECOMMENDATIONS.
- THE PRESSURE AND FLOW REQUIREMENTS AT THE TWO MOST REMOTE FIRE HYDRANT RISERS IS 250kPa @ 600L/Min (1200L/Min TOTAL).
- EACH FIRE HYDRANT RISER IS CAPABLE OF PROVIDING 70m LINEAL COVERAGE.
- MINIMUM COVER FROM TOP OF PIPE TO FINISHED SURFACE LEVEL TO BE 750mm FOR HEAVY VEHICLES AND 600mm IN GENERAL AREAS. A 300mm THICK LAYER OF SAND SHALL BE PLACED AROUND PIPES. GENERAL BACKFILL TO 98% COMPACTION IN 200mm LAYERS. MAXIMUM PARTICLE SIZE 20mm.
- TRENCHES TO BE PEGGED AND CO-ORDINATED PRIOR TO EXCAVATION BE AWARE OF EXISTING UNDERGROUND SERVICES AND OBSTACLES.
- BELOW GROUND THRUST BLOCKS AND ANCHORS TO BE INSTALLED AT DEAD ENDS, TEE'S REDUCERS AND BENDS AS NECESSARY TO COMPLETE THE INSTALLATION IN ACCORDANCE WITH YARRA VALLEY WATER, THE MANUFACTURERS RECOMMENDATIONS AND TO SUIT THE SOIL CONDITIONS.
- ALL PIPEWORK TO BE PRESSURE TESTED TO 1700kPa FOR A DURATION OF TWO HOURS.
- ALLOW FOR THE FIRE HYDRANT SYSTEM TO BE CERTIFIED, INSPECTED AND TESTED INCLUDING ALL ASSOCIATED FEES AND CHARGES.
- PIPE MATERIALS
  - HYDRANT (ABOVE GROUND) - GALVANISED MILD STEEL PIPE TO AS2419.1
  - HYDRANT (BELOW GROUND) - COPPER TYPE B PE (PN20), BLUEBRUTE (PN20) TO AS2419.1

Statement of Available Pressure and Flow

Sydney WATER

Alex Lee
17-19 Miles Street
Mulgrave 3170

Attention: Alex Lee Date: 07/03/2023

Pressure & Flow Application Number: 1599380
Your Pressure Inquiry Dated: 2023-02-28
Property Address: 9 Whyalla Place, Prestons 2170

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

ASSUMED CONNECTION DETAILS

Street Name: Whyalla Place	Side of Street: East
Distance & Direction from Nearest Cross Street	115 metres South from Dampier Place
Approximate Ground Level (AHD):	24 metres
Nominal Size of Water Main (DN):	150 mm

EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT

Normal Supply Conditions	
Maximum Pressure	145 metre head
Minimum Pressure	63 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow l/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	63
Fire Hydrant / Sprinkler Installations (Pressure expected to be maintained for 95% of the time)	10 15 20 25 30 40	81 80 79 78 77 74
Fire Installations based on peak demand (Pressure expected to be maintained with flows combined with peak demand in the water main)	10 15 20 25 30 40	60 59 57 55 53 49
Maximum Permissible Flow	44	47

(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email :

swtapin@sydneywater.com.au

Sydney Water Corporation ABN 49 776 225 038
1 Smith St Parramatta 2150 | PO Box 399 Parramatta 2124 | DX 14 Sydney | T 13 20 92 | www.sydneywater.com.au
Delivering essential and sustainable water services for the benefit of the community

REV	DESCRIPTION	DATE
P1	70% PRELIMINARY ISSUE	29.08.23

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CLIENT: DEGNAN HI-QUALITY GROUP

ARCHITECT: iwolff

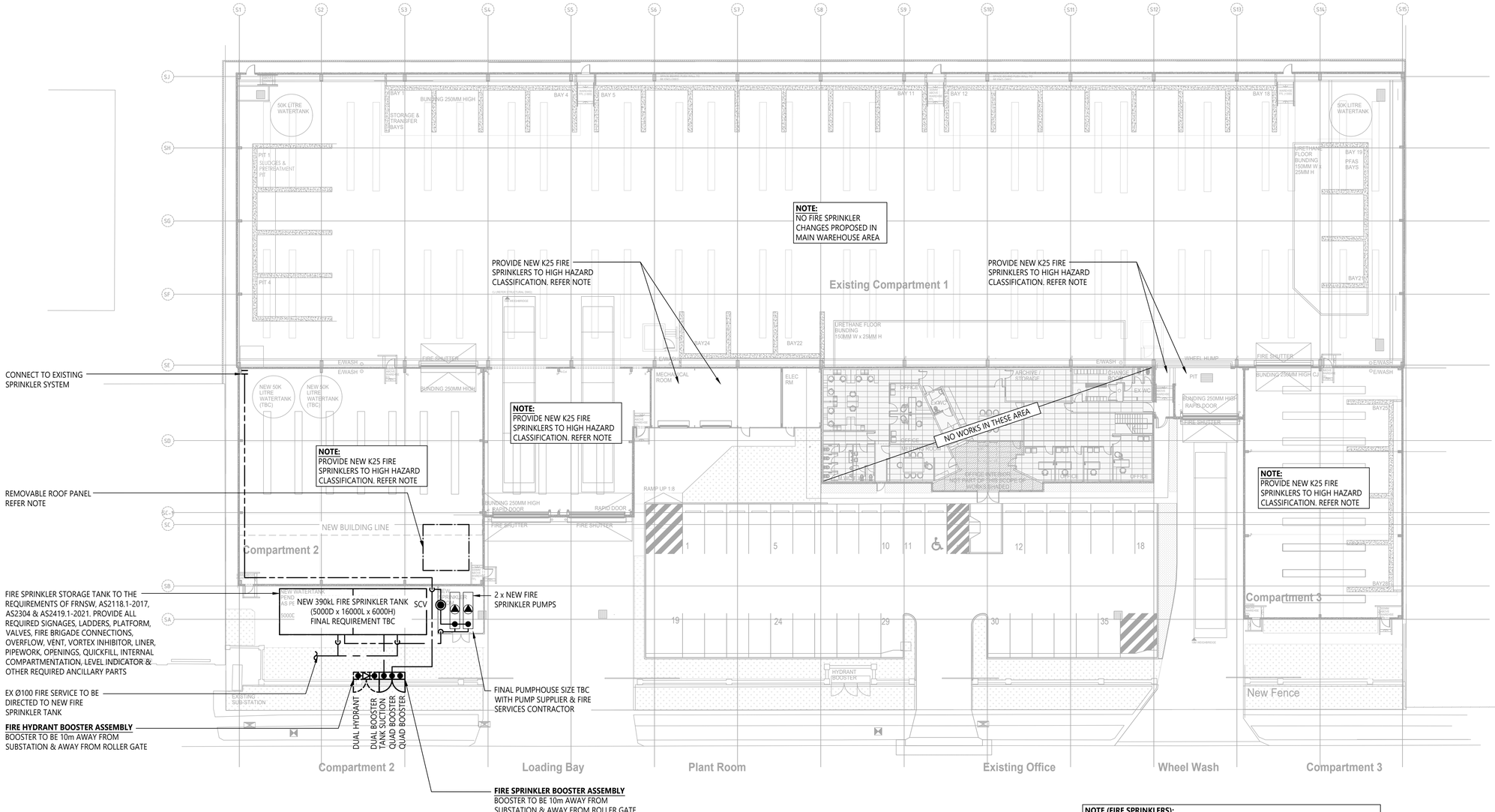
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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DRAWING TITLE
WET FIRE SERVICES
NOTES AND SPECIFICATIONS

SCALE	NTS	DATE	Aug-23	DRAWN	KR	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AL	CHECKED	AL	DRAWING NO.	F001

REVISION P1



NOTE (FIRE SPRINKLERS):
PROVIDE NEW K25 FIRE SPRINKLERS TO HIGH HAZARD CLASSIFICATION.
ALLOW THE FOLLOWING NUMBERS OF SPRINKLERS HEADS COMPLETE WITH ASSOCIATED Ø65 RANGE PIPES & Ø150 DISTRIBUTION MAINS FOR PRICING PURPOSES:
- COMPARTMENT 2 - 85 HEADS
- COMPARTMENT 3 - 65 HEADS
- EXTENDED AREAS WITHIN COMPARTMENT 1 - 65 HEADS

NOTE (REMOVABLE ROOF PANEL):
FIRE SPRINKLER LAYOUT TO BE DESIGNED TO ACCOMODATE REMOVABLE ROOF PANEL FOR FUTURE TRANSPORTATION OF WTP ITEMS INTO COMPARTMENT 2

1 / F200 FIRE SPRINKLER LAYOUT
SCALE 1:250

SCALE: A1 SHEET 1:250, A3 SHEET 1:500

0 2.5 5 10 15 20 25 m

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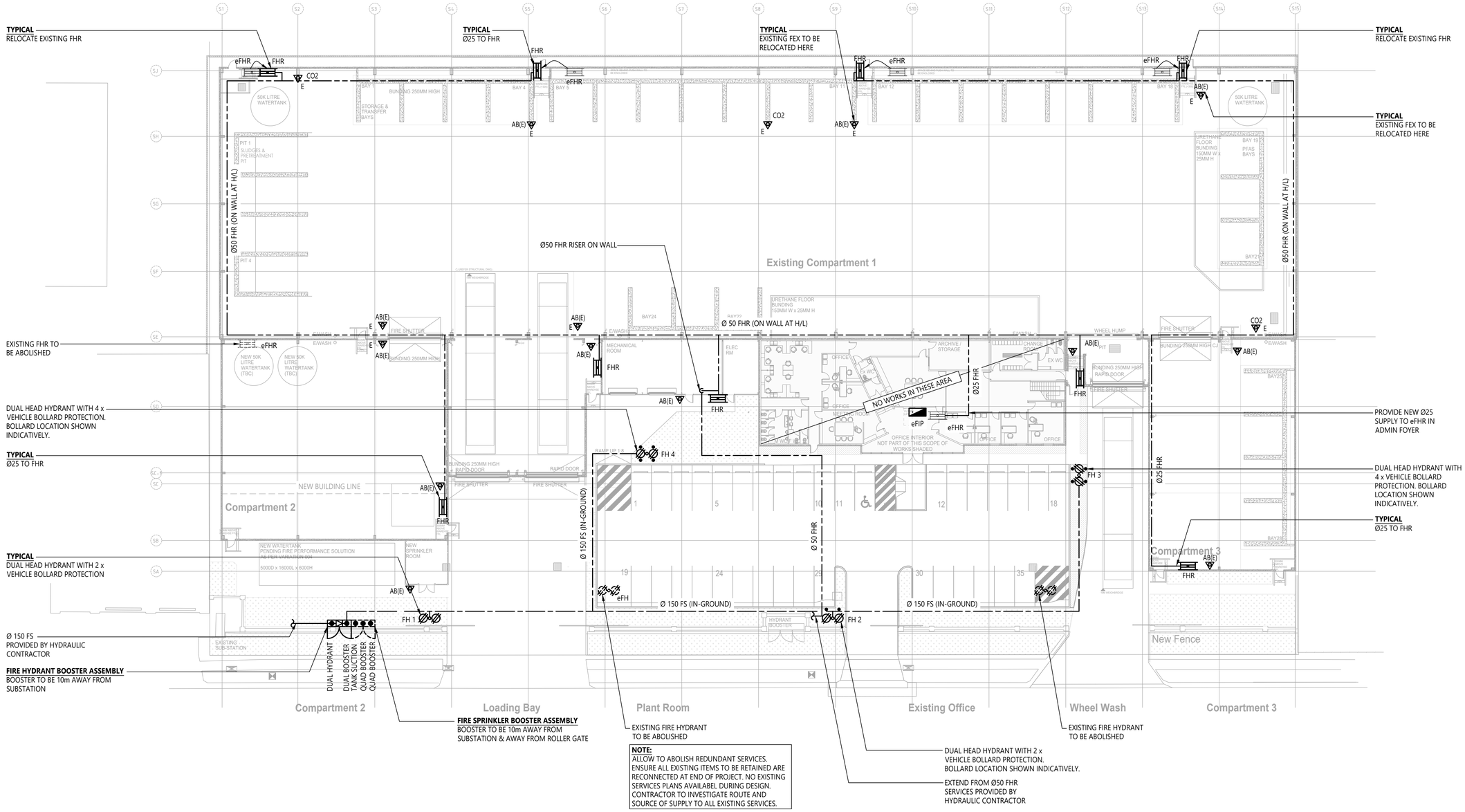
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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DRAWING TITLE
WET FIRE SERVICES
FIRE SPRINKLER LAYOUT

SCALE	1:250	DATE	Sep-23	DRAWN	KR	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AL	CHECKED	AL	DRAWING NO.	F200

REVISION P1



1 F300 FIRE HYDRANT, HOSE REEL & EXTINGUISHER LAYOUT
SCALE 1:250

SCALE: A1 SHEET 1:250, A3 SHEET 1:500

0 2.5 5 10 15 20 25 m

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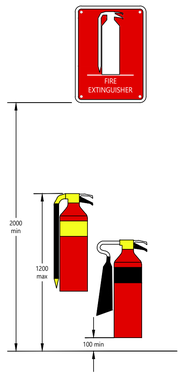
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DRAWING TITLE
WET FIRE SERVICES
FIRE HYDRANT, HOSE REEL & EXTINGUISHER LAYOUT

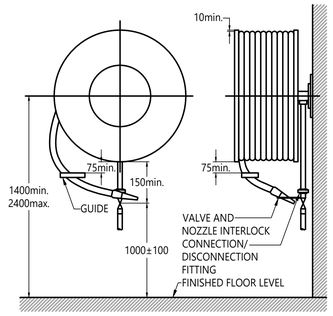
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SHEET SIZE	A1	DESIGNED	AL	CHECKED	AL	DRAWING NO.	F300

REVISION P1



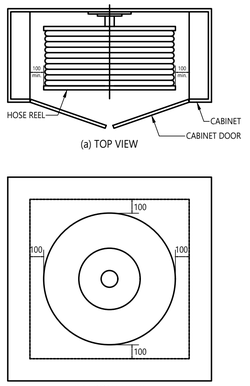
TYPICAL DETAIL - FIRE EXTINGUISHERS

1 H400 SCALE NTS



TYPICAL ARRANGEMENT OF FIXED TYPE HOSE REEL DETAIL

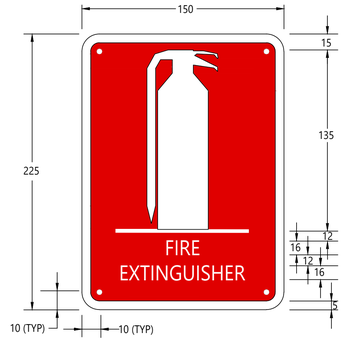
2 H400 SCALE NTS



FIXED TYPE HOSE REEL CLEARANCE

FIXED TYPE HOSE REEL CLEARANCE

3 H400 SCALE NTS

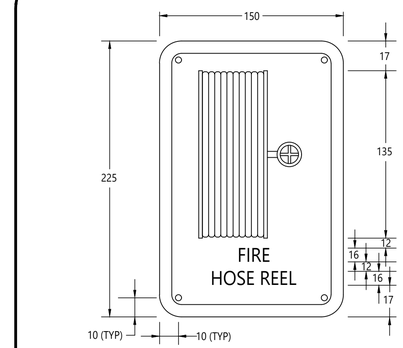


NOTE:

1. ALL DIMENSIONS SHOWN ARE MINIMUM. ANY ENLARGEMENT OF THE SIGN SHOULD HAVE ALL DIMENSIONS PROPORTIONAL TO THOSE SHOWN ABOVE.

FIRE EXTINGUISHER SIGN DETAIL

4 H400 SCALE NTS

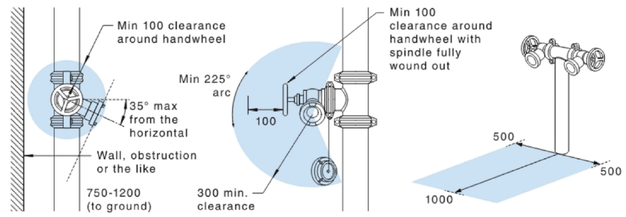


NOTES:

1. ALL DIMENSIONS SHOWN ARE MINIMUM. ANY ENLARGEMENT OF THE SIGN SHOULD HAVE ALL DIMENSIONS PROPORTIONAL TO THOSE SHOWN ABOVE.
2. FOR THE COLOURS OF THE SIGN, SEE CLAUSE 10.4.1. THE SHADED AREA IS RED FIELD.

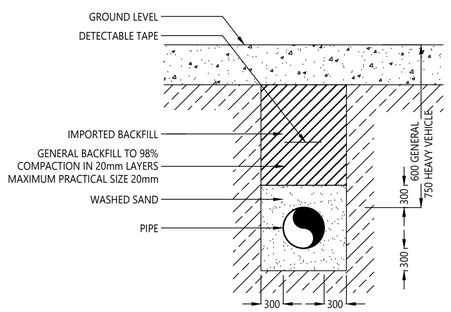
FIRE HOSEREEL SIGN DETAIL

5 H600 SCALE NTS



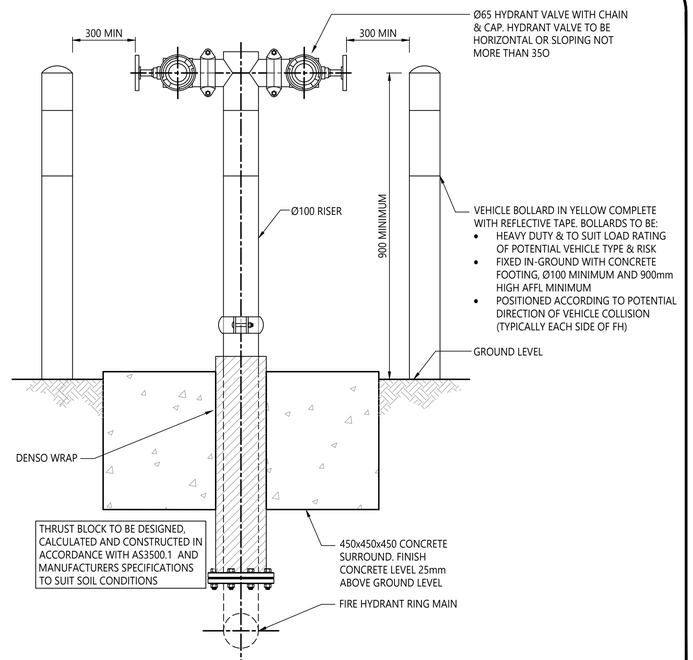
TYPICAL FIRE HYDRANT CLEARANCES

6 H400 SCALE NTS



TYPICAL PIPEWORK TRENCH DETAIL

7 H400 SCALE NTS



TYPICAL EXTERNAL FIRE HYDRANT DETAIL

8 H400 SCALE NTS

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PROJECT

PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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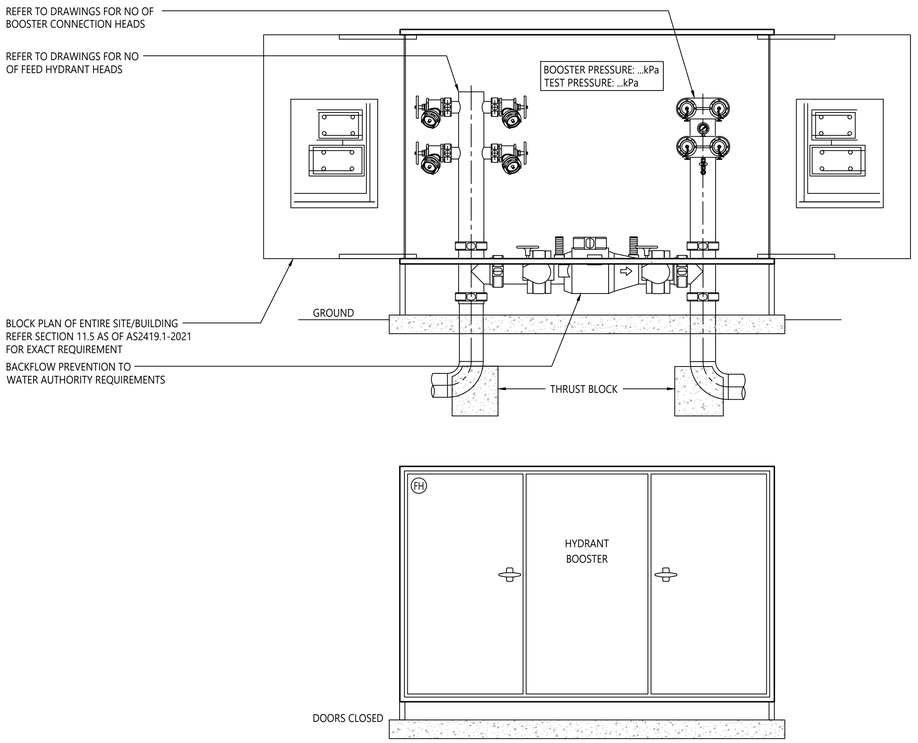
DRAWING TITLE

WET FIRE SERVICES
TYPICAL DETAILS 1

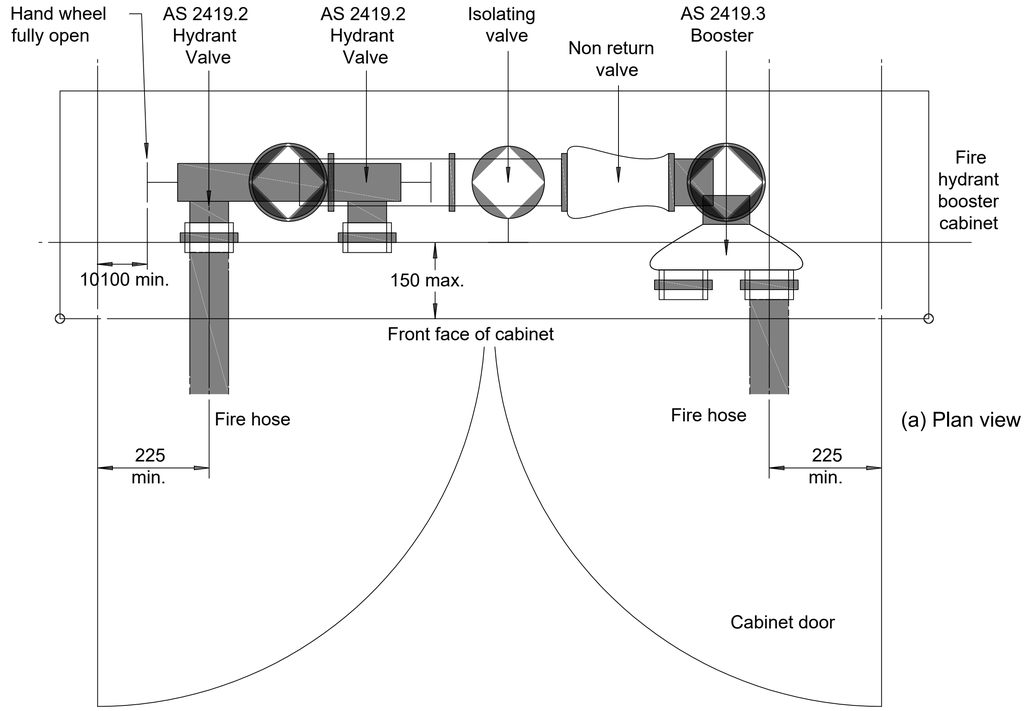
SCALE	NTS	DATE	Aug-23	DRAWN	KR	PROJECT NO.	30019108	REVISION
SHEET SIZE	A1	DESIGNED	AL	CHECKED	AL	DRAWING NO.	F400	P1

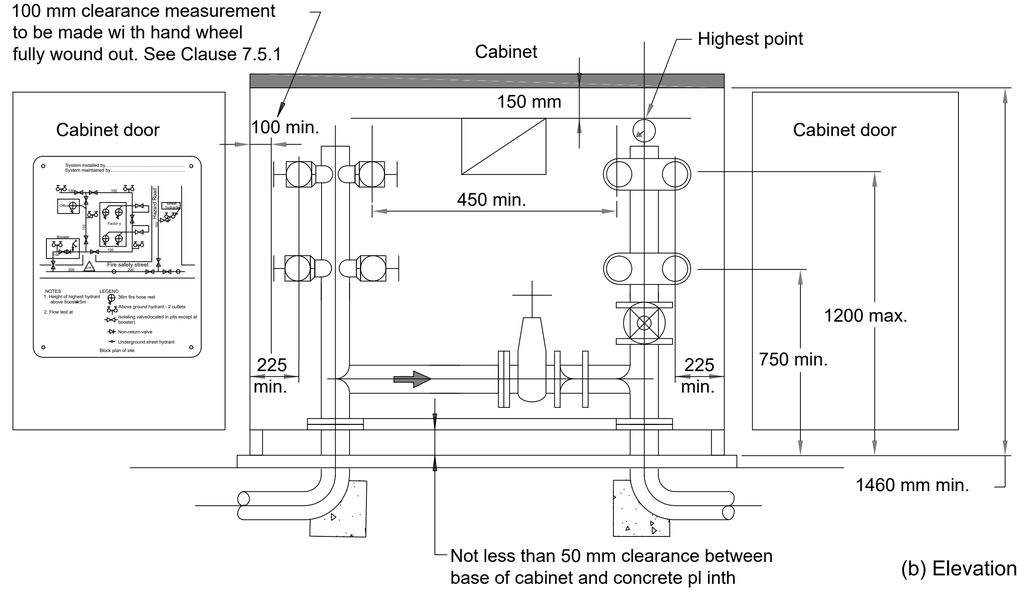
SIGNAGE REQUIREMENT:

1. ALL SIGNAGES SHALL BE TO THE REQUIREMENTS OF AS2419.1 - 2021, AS2118.1-2017, & FRNSW INCLUDING ANY APPROVED FIRE ENGINEERING REPORT FOR THE PROJECT.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THE APPROVED FIRE ENGINEERING REPORT & PROVIDE ALL REQUIRED ITEMS TO FULLY SATISFY FRNSW'S REQUIREMENTS.
3. ALL SIGNAGES ENGRAVED & TEXT TO BE OF CONTRASTING COLOUR TO THE BACKGROUND.
4. ALL SIGNAGES ARE TO BE LISTED ON THE ESSENTIAL SAFETY MEASURES ON THE BUILDING'S OCCUPANCY PERMIT.



1 H401 TYPICAL BOOSTER ASSEMBLY CUPBOARD DETAILS
SCALE NTS





2 F401 TYPICAL CLEARANCES WITHIN BOOSTER ASSEMBLY
SCALE NTS

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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DRAWING TITLE
WET FIRE SERVICES
TYPICAL DETAILS 2

SCALE	NTS	DATE	Sep-23	DRAWN	KR	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AL	CHECKED	AL	DRAWING NO.	F401

REVISION P1

Prestons Waste Treatment Facility

Amendment Report

Appendix E4

Hydraulic services design

ARCADIS

PRESTONS WASTE TREATMENT FACILITY

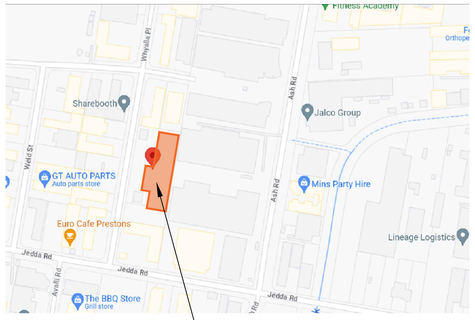
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

HYDRAULICS SERVICES

DRAWING LIST

H000	HYDRAULICS SERVICES COVER SHEET AND LEGENDS
H001	HYDRAULICS SERVICES NOTES AND SPECIFICATIONS
H200	HYDRAULICS SERVICES DRAINAGE LAYOUT
H201	HYDRAULICS SERVICES ROOF DRAINAGE LAYOUT
H300	HYDRAULICS SERVICES WATER LAYOUT
H400	HYDRAULICS SERVICES TYPICAL DETAILS 1

LOCATION MAP



LEGENDS

- COLD WATER
- HOT WATER/ HOT WATER FLOW
- HOT WATER RETURN
- RAIN WATER
- VENT
- SANITARY
- G G — GAS
- FIRE SERVICES
- eS — EXISTING SEWER
- eW eW — EXISTING WATER
- eG eG — EXISTING GAS
- OF OF — OVERFLOW DOWNPIPE
- NPCW — NON-POTABLE COLD WATER
- TUNDISH
- ORG — OVERFLOW RELIEF GULLY
- MANHOLE
- BOUNDARY TRAP
- WATER/GAS METER
- THERMOSTATIC MIXING VALVE
- TEMPERING VALVE
- ISOLATION VALVE
- ISOLATION VALVE IN PATH BOX
- HOT WATER FLOW DIRECTION
- PUMP
- HWU — HOT WATER UNIT
- RISER
- DROPPER
- SERVICE CONTINUATION
- SERVICE CONNECTION
- AP — ACCESS PANEL
- 3.5L WC — WET CHEMICAL TYPE FIRE EXTINGUISHER
- 4.5KG AB(E) — DRY POWDER TYPE FIRE EXTINGUISHER
- FIRE BLANKET
- FHR — FIRE HOSE REEL
- FH — FIRE HYDRANT - SINGLE
- FH — FIRE HYDRANT - DUAL
- DP — DOWNPIPE
- ROOF SUMP
- O/F — OVERFLOW
- GROUPED WATER/GAS SUPPLY TO EACH UNITS (INDIVIDUAL PIPES NOT SHOWN FOR CLARITY)

ABBREVIATIONS

BG	BOX GUTTER
BT	BOUNDARY TRAP
C/S	CEILING SPACE
CW	COLD WATER
DP	DOWNPIPE
EWW	EMERGENCY EYE WASH
F/A	FROM ABOVE
F/B	FROM BELOW
FW/BT	FLOOR WASTE WITH BUCKET TRAP
GC	GAS COCK
HW	HOT WATER
HWU	HOT WATER UNIT
O/F	OVERFLOW
RH	RAINHEAD
RV	RELIEF VENT
RW	RAIN WATER
RWO	RAIN WATER OUTLET
RWT	RAIN WATER TANK
SRM	SEWER RISING MAIN
SS	SEWER STACK
SV	STACK VENT
T/A	TO ABOVE
T/B	TO BELOW
TW	TRADE WASTE
U/S	UNDER SIDE
V	VENT
WW	WARM WATER

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DRAWING TITLE
HYDRAULICS SERVICES
COVERSHEET AND LEGENDS

SCALE	NTS	DATE	Aug-23	DRAWN	AC	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AC	CHECKED	AL	DRAWING NO.	H000

REVISION P1

SPECIFICATION NOTES

COMPLYING TENDER SUBMISSION

- TENDERERS SHALL CONDUCT THEIR OWN INVESTIGATION AND SITE VISIT TO THOROUGHLY INSPECT THE PROJECT SITE PRIOR TO TENDERING TO TAKE INTO ACCOUNT ANY CONDITIONS LIKELY TO AFFECT THE EXTENT OR PERFORMANCE OF THE CONTRACT. FAILURE TO DO SO WILL FORFEIT ANY CLAIM FOR NOT BEING AWARE OF CONDITIONS AFFECTING THE TENDER. ALL SITE VISIT SHALL BE ARRANGED THROUGH THE SUPERINTENDENT (REFER TO THE MAIN CONTRACT FOR DETAILS).
- TENDERERS SHALL STRICTLY ADHERE TO THE TYPES OF HYDRAULIC SERVICES PLANTS AND EQUIPMENT DETAILED IN THE DESIGN DRAWINGS AND SPECIFICATIONS. WHERE THE TENDERER WISH TO OFFER AN ALTERNATIVE, THIS SHALL BE MADE CLEAR IN THE TENDER SUBMISSION. REFER TO THE 'ALTERNATIVES' SECTION FOR ALL OTHER REQUIREMENTS.
- WHERE NO ALTERNATIVES WERE NOTED IN THE TENDER SUBMISSION, IT SHALL BE DEEMED THAT ALL MATERIALS AND PLANTS NOMINATED IN THE CONTRACT DOCUMENTS WILL BE PROVIDED.

ALTERNATIVES

- THE CONTRACTOR SHALL STRICTLY ADHERE TO THE TYPES OF HYDRAULIC SERVICES PLANTS AND EQUIPMENT DETAILED IN THE DESIGN DRAWINGS AND SPECIFICATIONS.
- IF ANY ALTERNATIVES ARE TO BE OFFERED, IT SHALL BE OF EQUAL OR BETTER IN QUALITY, PERFORMANCE AND RELIABILITY. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO PROVE THAT THE ALTERNATIVE OFFERED IS EQUAL OR BETTER IN QUALITY, PERFORMANCE AND RELIABILITY. THE CONTRACTOR SHALL PROVIDE WRITTEN REPORTS, TECHNICAL INFORMATION, ADVANTAGES, DISADVANTAGES, COST ANALYSIS, PREVIOUS PROJECT INSTALLATION AND MARKED-UP DRAWINGS SHOWING THE PROPOSED ALTERNATIVE SYSTEM AND PIPE RETICULATION IN ADDITION TO THE PRODUCT BROCHURES FOR THE ALTERNATIVE SYSTEM FOR CONSIDERATION. STATE IF USE OF PROPOSED ALTERNATIVES WILL NECESSITATE ALTERATION TO OTHER PARTS OF THE WORKS AND INCLUDE CONSEQUENT COSTS (LIFE & OPERATING COSTS) AND EFFECT ON OVERALL PROJECT PROGRAM.
- AS PART OF THE ALTERNATIVE OFFERED, THE CONTRACTOR MUST PROVIDE A COST SAVINGS TO THE CLIENT. THE COST SAVINGS OFFERED MUST INCLUDE OTHER POSSIBLE EXTRA COST FOR OTHER SERVICES, E.G. PROVISION OF THREE PHASE POWER INSTEAD OF ONE PHASE, ETC AND ALSO THE COST FOR ENGINEER'S HOURLY RATES TO REVIEW AND COMMENT ON THE PROPOSED ALTERNATIVES.
- UNLESS ALTERNATIVES ARE ACCEPTED IN WRITING BY THE SUPERINTENDENT, THE CONTRACTOR SHALL COMPLY WITH THE DETAILED REQUIREMENTS OF THE DESIGN DRAWINGS & SPECIFICATION.

EXISTING SERVICES

- THE CONTRACTOR SHALL MAKE ALLOWANCE WITHIN THE TENDER TO INVESTIGATE AND PROVE ON SITE THE LOCATION OF ALL EXISTING SERVICES PRIOR TO ANY WORKS.
- THE CONTRACT DOCUMENTS ARE INDICATIVE ONLY BASED ON INFORMATION AVAILABLE AT THE TIME OF DOCUMENTATION FROM THE LOCAL COUNCIL AND VARIOUS SERVICES AUTHORITIES.
- ALL REDUNDANT SERVICES INCLUDING AUTHORITY SERVICES SHALL BE CUT & SEALED AT THE MAIN. DISCONNECTIONS SHALL BE BY AUTHORITY APPROVED CONTRACTOR & TO THE APPROVAL OF THE RELEVANT AUTHORITY.

APPLICATIONS, FEES & CHARGES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL REQUIRED AUTHORITY APPLICATIONS. UNLESS SPECIFICALLY EXCLUDED IN THE TENDER SUBMISSION, THE CONTRACTOR SHALL PAY ALL FEES & CHARGES RENDERED BY THE RESPECTIVE AUTHORITIES IN REFERENCE TO THE PROJECT.

AUTHORITIES & STANDARDS

- ALL WORK SHALL COMPLY IN EVERY WAY WITH THE REQUIREMENTS OF THE FOLLOWING AUTHORITIES. AUTHORITIES & LEGISLATION:
  - NATIONAL CONSTRUCTION CODE
  - AS3500 (ALL PARTS)
  - LOCAL COUNCIL
  - VARIOUS SERVICES AUTHORITIES
  - LOCAL FIRE BRIGADE
  - FIRE ENGINEERING REPORT

THE WHOLE OF THE WORK SHALL BE CARRIED OUT BY OR UNDER THE FULL SUPERVISION OF A FULLY PLUMBING CONTRACTOR IN ACCORDANCE WITH THE DRAWINGS & SPECIFICATION, REVIEWED BY THE SUPERINTENDENT & APPROVED BY ALL RELEVANT AUTHORITIES.

WORKMANSHIP

- ALL WORK SHALL BE AT LEAST EQUAL OR BETTER THAN THE APPROPRIATE CURRENT AUSTRALIAN STANDARD
- ALL WORKMANSHIP SHALL BE OF A HIGH STANDARD THROUGHOUT AS ACCEPTED BY THE RESPECTIVE SPECIALIST TRADES, WHERE THE SUPERINTENDENT. ENGINEER CONSIDERS THAT THE WORKMANSHIP IS NOT CONSISTENT WITH GOOD TRADE PRACTICES OR STANDARDS OR THAT ANY PLANT IS INFERIOR IN QUALITY TO THAT SPECIFIED (NOT WITHSTANDING THAT A PROGRESS PAYMENT MAY HAVE BEEN MADE IN RESPECT THEREOF), THE WORK WILL BE REJECTED. REJECTED WORK OR MATERIALS SHALL BE REMOVED WITHIN 24 HOURS OF SUCH REJECTION. DEFECTIVE WORK SHALL BE RECONSTRUCTED TO CONFORM TO THE SPECIFIED REQUIREMENTS AT NO COST TO THE PROJECT.
- ALL MATERIALS, EQUIPMENT & SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFIC RECOMMENDATIONS OF THE MANUFACTURER, INCLUDING THE PROVISION OF ANCILLARY OR SAFETY DEVICES DEEMED NECESSARY. FAILURE TO DO WILL RESULT IN THE EQUIPMENT/SYSTEM BE REJECTED BY THE SUPERINTENDENT.

WARRANTY

- THE COMPLETE WORK SHALL BE WARRANTED FOR 12 MONTHS FROM THE DATE OF BUILDING HANDOVER AGAINST DEFECTIVE WORKMANSHIP AND MATERIALS AND AGAINST NON-COMPLIANCE WORK WITH SPECIFIED PERFORMANCE OR OPERATION AS OUTLINED IN THE CONTRACT DOCUMENTS.
- DURING THE WHOLE OF THE 12 MONTHS WARRANTY PERIOD, THE CONTRACTOR SHALL CARRY OUT ALL MAINTENANCE & RECTIFICATION WORK REQUIRED.

CERTIFICATION OF WORKS

- ISSUE A CERTIFICATE OF COMPLIANCE BEFORE THE DATE OF PRACTICAL COMPLETION STATING THAT THE COMPLETED WORK COMPLIED WITH ALL THE REQUIREMENTS OF THE SPECIFICATION AS WELL AS THE RELEVANT AUSTRALIAN STANDARDS AND REGULATIONS.

CONTRACT DOCUMENTS

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS, REPORTS & APPROVALS FROM VARIOUS OTHER DESIGN CONSULTANTS & AUTHORITIES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, LANDSCAPING GEOTECHNICAL, FIRE ENGINEERING, BUILDING SURVEYOR & THE LOCAL FIRE BRIGADE.
- THE DESIGN DRAWINGS HAVE BEEN COORDINATED INTERNALLY DURING DESIGN DOCUMENTATION PERIOD. HOWEVER, THE CONTRACT IS FULLY RESPONSIBLE FOR ALL NECESSARY WORK COORDINATION BETWEEN TRADES OR OTHER SERVICES TO DETERMINE PROJECT REQUIREMENTS, WORKFLOW AND TO ELIMINATE CLASHES INCLUDING COORDINATION WITH THE BUILDER PRIOR TO ANY WORK.
- THE DRAWINGS INDICATE THE APPROXIMATE POSITIONS & NUMBER OF SANITARY FIXTURES & OTHER ITEMS REQUIRING CONNECTION TO THE HYDRAULIC SERVICES. ALLOW FOR ALL NECESSARY DIVERSIONS & MINOR ADJUSTMENTS OF PIPE WORK & EQUIPMENT AS MAY BE NECESSARY TO CARRY OUT THE WORK AS REQUIRED & AS NECESSARY TO COMPLETE THE WORKS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF EQUIPMENT & COORDINATE WITH OTHER SERVICES WHERE APPLICABLE.
- THE CONTRACT DOCUMENTS ARE INTENDED TO CALL FOR A FULLY INSTALLED, SAFE AND OPERATIONAL SYSTEM TO THE REQUIREMENT OF THE PROJECT SPECIFICATION OR ANY GOVERNING LEGISLATION/AUTHORITY. PROVIDE ALL REQUIRED MINOR ITEMS, EQUIPMENT, ACCESSORIES AND INCIDENTAL WORK REQUIRED FOR THE COMPLETION OF THE INSTALLATION AND TO ENSURE FULL INTEGRATION AND FULL PERFORMANCE OF THE SYSTEM AS INTENDED.

DIMENSIONS & LEVELS

- ALL DIMENSIONS SHALL BE CHECKED ON BOTH THE ARCHITECTURAL DRAWINGS & ON-SITE. DO NOT SCALE FROM DRAWINGS. ALL WORK SHALL BE SET OUT ON -SITE TO SUIT ACTUAL DIMENSIONS.
- INVERT & SURFACE LEVELS SHOWN ON DRAWINGS ARE GENERALLY INTERPOLATED OR DETERMINED FROM CO-ORDINATION WITH STRUCTURAL, MECHANICAL & ARCHITECTURAL DRAWINGS AT THE TIME OF DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE LATEST DRAWING/INFO PRIOR TO WORK TO ESTABLISH THE ACTUAL INVERT LEVEL OF THE POINT O CONNECTION TO EXTERNAL CONNECTION POINTS. DETERMINE ALL OBSTRUCTION AND CONFIRM THAT THE PIPE ROUTE AS SHOWN ON THE DRAWINGS CAN BE CONSTRUCTED TO CORRECT FALLS AND LEVELS PRIOR TO ORDERING MATERIAL OR CARRYING OUT ANY WORK.
- ADVISE THE SUPERINTENDENT OF ANY APPARENT DISCREPANCIES BEFORE THE COMMENCEMENT OF ANY WORK; CLAIMS FOR REDUNDANT WORK AS A RESULT OF FAILING TO DO SO SHALL NOT BE CONSIDERED VALID.

PIPE PENETRATIONS

- ALL PENETRATION THROUGH FIRE RATED WALLS & FLOORS SHALL BE FIRE RATED WITH AN APPROVED FIRE SEALANT OR FIRE STOP COLLAR

PIPING

- ALL PIPING SHALL CONFORM TO THE AUSTRALIAN STANDARDS & BE IN ACCORDANCE WITH MATERIALS & SIZES SHOWN ON THE DRAWINGS. PIPELINES SHALL BE INSTALLED USING THE LONGEST PRACTICABLE LENGTH OF TUBE/PIPE TO ELIMINATE UNNECESSARY JOINTING. BUILDING UP LENGTHS FROM SHORT OFF-CUTS SHALL NOT BE PERMITTED.

EXPOSED PIPEWORK TREATMENT

- EXCEPT AS OTHERWISE SPECIFIED OR DIRECTED ALL INTERNAL EXPOSED PIPING ADJACENT TO PLUMBING FIXTURES, INCLUDING TRAPS & FITTINGS SHALL BE CHROMIUM PLATED FINISHED & WHERE PASSING THROUGH A FINISHED WALL, FLOOR OR CEILING, SHALL BE FITTED WITH APPROVED CHROME PLATES.

PROTECTION OF FINISHED & POLISHED SURFACES

- THROUGHOUT THE PROJECT, ALL FINISHED SURFACES SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE. PROVIDE SUITABLE MATERIAL FOR PROTECTION OF FINISHED SURFACES AS REQUIRED & AS MAY BE DIRECTED. REMOVE PROTECTION FROM FINISHED SURFACES ON COMPLETION OF PROJECT & LEAVE SURFACES IN SUCH A MANNER THAT FINAL CLEANING OF DUST ONLY IS REQUIRED. SCRATCHED OR DAMAGED FINISHED SURFACES WILL NOT BE ACCEPTED.

EXCAVATION IN EXISTING CONCRETE SLABS, PAVEMENTS & ROADWAYS

- IF REQUIRED BY THE SUPERINTENDENT TRENCHES ACROSS EXISTING ROADS SHALL BE EXCAVATED & THE PIPELINE CONSTRUCTED THEREIN SO THAT HALF THE ROADWAY IS ALWAYS MAINTAINED OPEN TO THE PUBLIC. SLABS SHALL BE SAW CUT, THEN REMOVE THE CONCRETE WITH PNEUMATIC TOOLS.
- THE CONTRACTOR SHALL ALLOW TO UNDERTAKE AN AUTHORITIES SERVICES SEARCH & OBTAIN ALL AVAILABLE INFORMATION ON AUTHORITIES SERVICES WITHIN THE STREET & SITE AREA.
- REINSTATE ALL AFFECT AREA TO THE SATISFACTION OF THE RELEVANT AUTHORITY.

INSPECTION & FLUSHING OUT OF SERVICES - GRAVITY SYSTEMS

- ON COMPLETION OF THE INSTALLATION OF ALL SERVICES & BEFORE APPLICATION FOR CERTIFICATE OF PRACTICAL COMPLETION. CLEAR OUT ANY DEBRIS FROM LINES & FLUSH ENTIRE SYSTEM TO ENSURE CLEAN BORE.

INSPECTION & FLUSHING OUT OF SERVICES - PRESSURE SYSTEMS

- ON COMPLETION OF THE INSTALLATION OF ALL PRESSURE SYSTEMS & BEFORE APPLICATION FOR CERTIFICATE OF PRACTICAL COMPLETION, ALLOW TO FLUSH OUT ALL PIPING INSTALLATIONS TO CLEAN SAND, COPPER FILINGS & FOREIGN MATTER FROM THE SYSTEM.

'AS BUILT' DRAWINGS / OPERATION & MAINTENANCE MANUALS

- AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL PROVIDE AS-BUILT DOCUMENTATION ON AUTOCAD. AS BUILT DOCUMENTATION MUST INCLUDE SUBMISSION REQUIREMENTS AS FOLLOWS:
  - THE AS-BUILT DRAWING CANNOT BE A COPY & PASTE REPRODUCTION OF THE ENGINEER'S DESIGN DRAWINGS. THE DRAWINGS MUST SHOW THE CONTRACTOR'S COMPANY DETAILS INCLUDING LOGO & VBA REGISTERED BUILDING PRACTITIONER NUMBER. THE WORDINGS MUST BE CHANGED TO INDICATE 'WORK DONE' AND NOT 'WORK TO BE DONE'
  - SHOW ACTUAL WORK DONE ON-SITE. ANY DEVIATION FROM DESIGN DRAWINGS AS THE RESULT FROM SITE COORDINATION, CLIENT CHANGES, VALUE MANAGEMENT & REROUTING TO AVOID OBSTRUCTION MUST BE SHOWN ON THE DRAWINGS
  - INFORMATION TO INCLUDE - SERVICE ROUTE, SIZE, MATERIAL, OFFSET, DROPPERS, RISERS, VALVES, ETC
  - ONE COPY OF MAINTENANCE MANUAL & SCHEDULE INDICATING ALL ITEMS OF EQUIPMENT & THOSE REQUIRING SERVICE
  - COMMISSIONING & TESTING RESULTS
- ALL RELEVANT AS-BUILT DOCUMENTATION MUST BE SUBMITTED TO THE WATER AUTHORITY FOR THEIR RECORD.

ACOUSTIC

- WASTE & DOWNPIPES - PROVIDE & INSTALL 25mm THICK SOUNDLAGG (8kg/m2) ACOUSTIC INSULATION TO ALL PIPING WITHIN CEILINGS & VERTICAL SHAFTS FACING LIVING & CORRIDOR AREAS.
- COPPER WATER PIPES RISERS THROUGH BUILDING SHALL BE CLIPPED WITH AN APPROVED RUBBER INSERTED CLIP.
- PUMPS SHALL BE MOUNTED ON ANTI-VIBRATION RUBBER OR NEOPRENE PADS OF MINIMUM 10mm THICKNESS.
- THE ABOVE IS A GUIDE ONLY. ACOUSTIC CONSULTANT REPORT SHALL TAKE PRECEDENCE OVER THE SPECIFIED TREATMENT.

MATERIALS

- SUPPLY OF MATERIALS - SUPPLY & FIX ALL MATERIALS REQUIRED TO COMPLETE THE WORKS. ALL MATERIALS SHALL BE FIRST QUALITY & THE BEST OF THEIR RESPECTIVE KINDS. SECOND QUALITY OR INFERIOR MATERIALS SHALL BE REJECTED. ALL COSTS ASSOCIATED WITH REPLACEMENT OF REJECTED MATERIALS SHALL BE BORNE BY THE PLUMBING CONTRACTOR. ALL MATERIALS SHALL CONFORM TO THE LATEST AUSTRALIAN STANDARD SPECIFICATION, CODE OR INTERIM CODE. IF NO AUSTRALIAN STANDARD EXISTS, THEY SHALL CONFORM TO THE LATEST BRITISH STANDARD OR THE AMERICAN SOCIETY FOR TESTING & MATERIALS IN THAT ORDER.
- ALL MATERIALS MUST BE APPROVED BY THE LOCAL AUTHORITY & 'WATERMARKED'.

REJECTION OF UNSATISFACTORY MATERIALS

- REJECTED MATERIALS SHALL BE MARKED BY THE PLUMBING CONTRACTOR & REMOVED FROM THE SITE.

COPPER TUBE & FITTINGS

- COPPER TUBE SHALL:
  - CONFORM TO AS1432 - COPPER TUBES FOR PLUMBING, GAS FITTING & DRAINAGE APPLICATIONS.
  - BE INSTALLED IN ACCORDANCE WITH AS4809
  - BE TYPE A WHERE LOCATED UNDER BUILDINGS.
  - BE TYPE B FOR FIRE HOSE REEL
  - JOINTING - BE JOINTED WITH SILVER SOLDER CONTAINING NOT LESS THAN:
  - 5% SILVER SOLDER & 6mm LAPPED JOINTS FOR PRESSURE SUPPLY PIPES.
- FITTINGS FOR COPPER TUBE SHALL:
  - CONFORM TO AUSTRALIAN STANDARD AS3688 - WATER SUPPLY - COPPER & COPPER ALLOY COMPRESSION & CAPILLARY FITTINGS & THREADED-END CONNECTORS.
  - BE DEZINCIFIED BRASS OR COPPER SUITABLE FOR JOINTING BY SILVER SOLDER.
  - MINIMUM WALL THICKNESS SHALL BE NOT LESS THAN THE TUBE THICKNESS IT SERVES.
  - BE FIRST QUALITY HIGH-PRESSURE FITTINGS FOR RISING MAINS.

PVC-U PIPES & FITTINGS

- ALL PVC-U PIPES & FITTINGS FOR SEWER & STORMWATER SHALL BE:
- BE SEWER GRADE IN CONFORMITY WITH AS1260-PVC-U PIPES & FITTINGS FOR DRAIN, WASTE & VENT APPLICATIONS.
- SOLVENT WELD JOINTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- INCORPORATE FITTINGS OF SIMILAR MANUFACTURE TO THE PIPE USED.
- THE BURNING OUT OF FITTINGS FOR REUSE IS UNACCEPTABLE.
- THE HEATING OR ANNEALING OF PVC-U PIPES & FITTINGS IS UNACCEPTABLE.
- JOINTING - SOLVENT WELD CEMENT (HIGH BOND SOLVENT CEMENT) AS RECOMMENDED BY MANUFACTURER & APPROVED BY AUTHORITY.
- JOINTING - USE FULLY MOULDED FITTINGS ONLY. GLUE ON BOSS OR SADDLE TYPE CLAMP OR STRAPPED ON JOINTS SHALL NO BE USED.
- BE INSTALLED IN ACCORDANCE WITH:
  a. AS3500 REQUIREMENTS
  b. THE PLUMBING CODE OF AUSTRALIA
  c. AS2032 CODE OF PRACTICE FOR INSTALLATION OF UPVC PIPE SYSTEMS

MATERIALS

SEWER	'DWV' uPVC
SANITARY DRAINAGE	'DWV' uPVC
TRADE WASTE DRAINAGE	HDPE
DOWNPIPES	'DWV' uPVC
HOT / COLD WATER	COPPER TYPE B (INSULATED/LAGGED)
GAS	COPPER TYPE B
HYDRANT (ABOVE GROUND)	GALVANISED MILD STEEL PIPE TO AS2419.1
HYDRANT (BELOW GROUND)	COPPER TYPE B PE (PN20), BLUEBRUTE (PN20) TO AS2419.1

SANITARY FIXTURES & TAPWARE

- SUPPLY & INSTALL ALL SANITARY FIXTURES & TAPWARE AS NOMINATED IN THE ARCHITECTS DOCUMENTATION.

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ARCHITECT: iwolff

PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

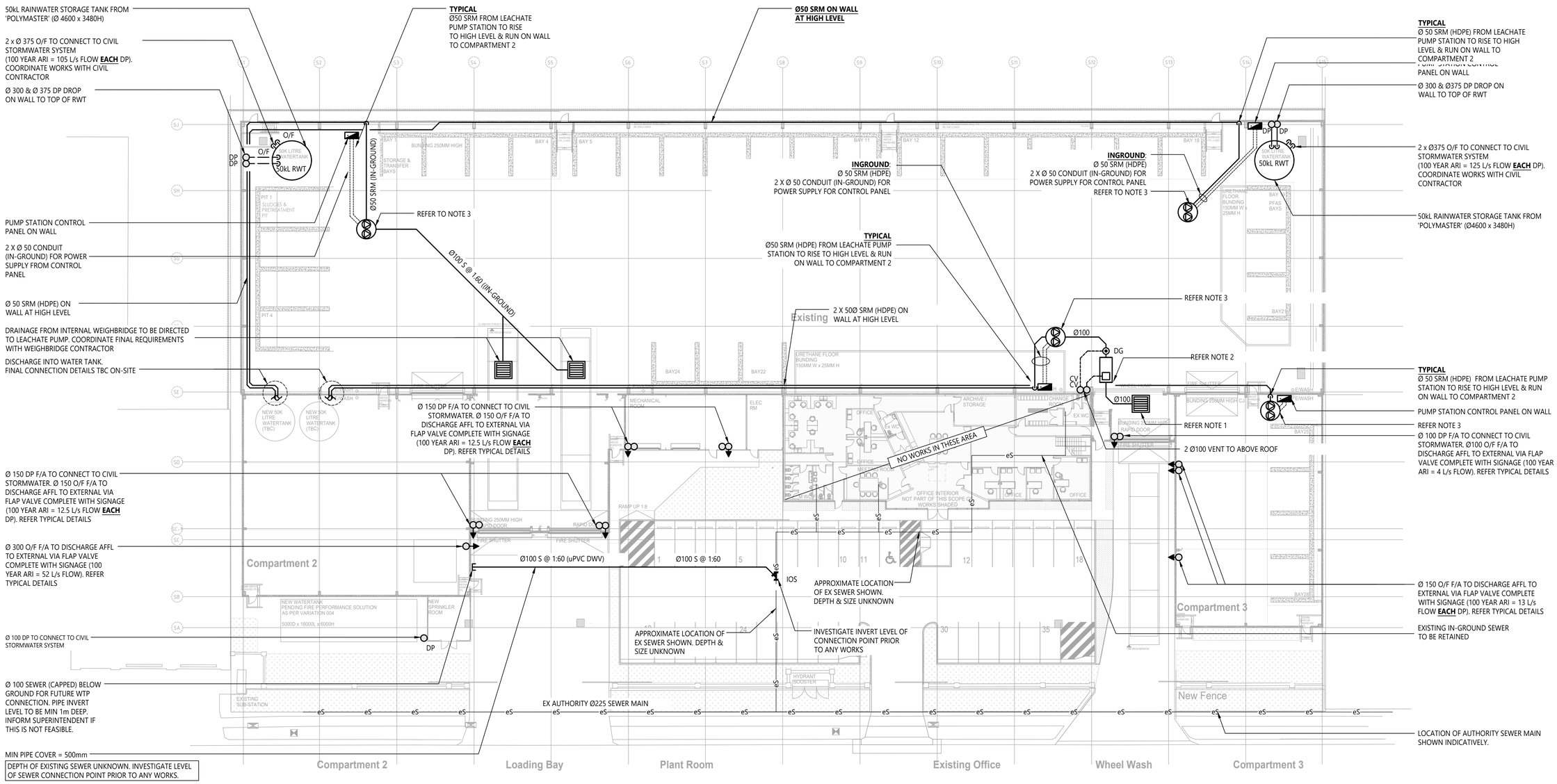
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DRAWING TITLE
HYDRAULICS SERVICES
NOTES AND SPECIFICATIONS

SCALE	NTS	DATE	Aug-23	DRAWN	AC	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AC	CHECKED	AL	DRAWING NO.	H001

REVISION P1

NOTE:
ALLOW TO ABOLISH REDUNDANT SERVICES. ENSURE ALL EXISTING ITEMS TO BE RETAINED ARE RECONNECTED AT END OF THE PROJEC. NO EXISTING SERVICES PLANS AVAILABLE DURING DESIGN CONTRACTOR TO INVESTIGATE ROUTE AND SOURCE OF SUPPLY TO ALL EXISTING SERVICES



NOTE:
1. 600 X 600 SILT ARRESTOR PIT FROM 'MASCOT ENGINEERING' COMPLETE WITH CLASS 'E' GRATE.
2. 1000L HYDROCARBON & OIL INTERCEPTOR FROM 'HALGAN' COMPLETE WITH CLASS 'E' COVER.
3. IN-GROUND LEACHATE PUMP STATION FROM 'HALGAN' MODEL NO 'HPS2000E/D/D40M'. COORDINATE FINAL LOCATION WITH STRUCTURAL ENGINEER.

1 H200 DRAINAGE LAYOUT

SCALE 1:250

SCALE: A1 SHEET 1:250, A3 SHEET 1:500

0 2.5 5 10 15 20 25 m

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

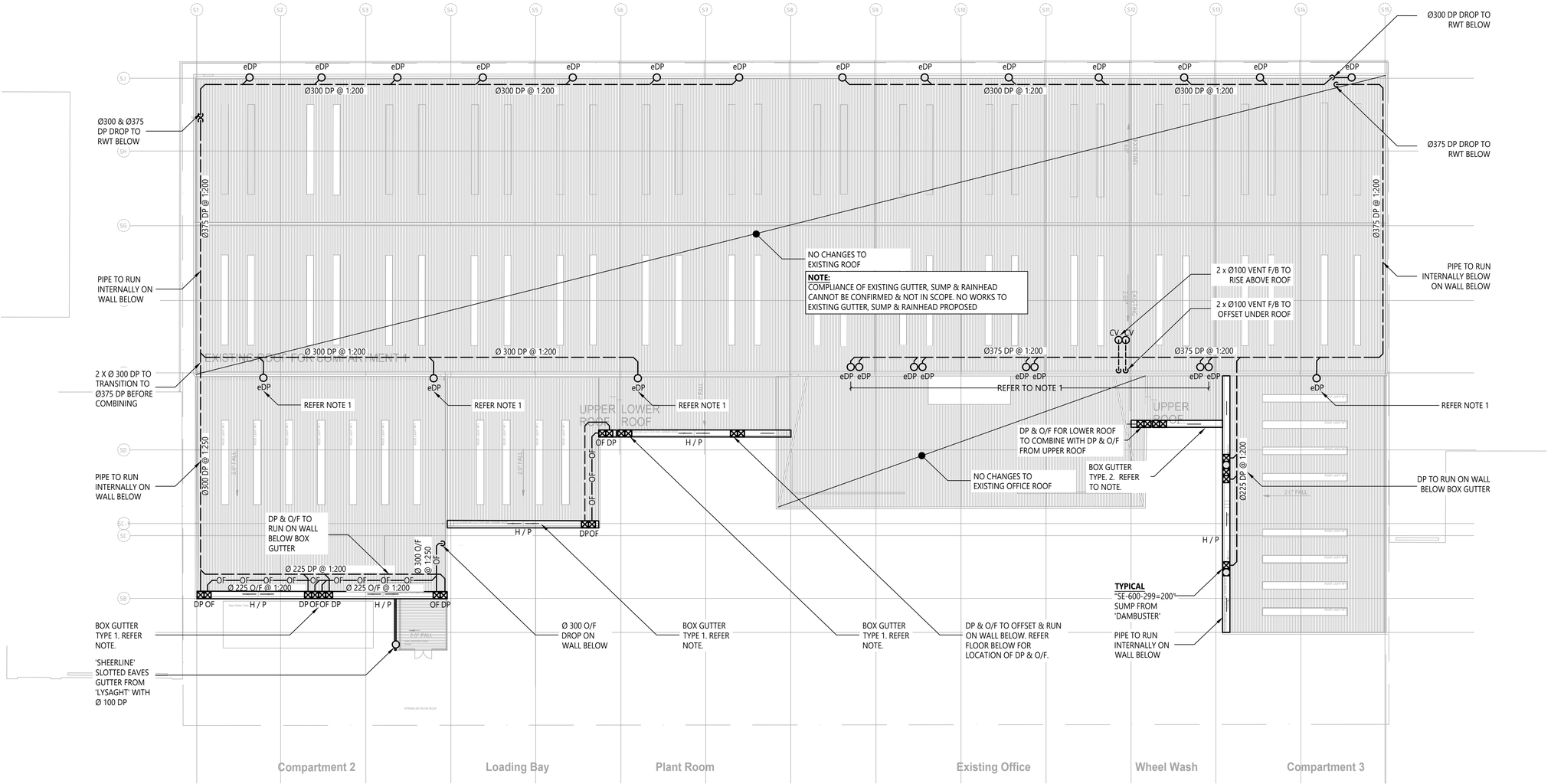
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DRAWING TITLE
HYDRAULICS SERVICES
DRAINAGE LAYOUT

SCALE	1:250	DATE	Sep-23	DRAWN	AC	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AL	CHECKED	AL	DRAWING NO.	H200

REVISION P1

NOTE:
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BOX GUTTER TYPE 1:
1. 600W X 150H BOX GUTTER 600W x 150H BOX GUTTER @ 1:150 GRADIENT WITH 'SU-600-200' SUMP FROM 'DAMBUSTER', Ø 150 DP & Ø 150 O/F.
2. Ø 150 DP & Ø 150 O/F FROM SUMP TO TRANSITION TO Ø 225 PIPE BELOW SUMP.

BOX GUTTER TYPE 2:
1. 300W x 150H BOX GUTTER @ 1:150 GRADIENT WITH 'SU-300-200' SUMP FROM 'DAMBUSTER', Ø 100 DP & Ø 100 O/F
2. Ø 100 DP & Ø 100 O/F FROM SUMP TO TRANSITION TO Ø 150 PIPE BELOW SUMP

NOTE:
1. EXISTING DOWNPIPES TO PENETRATE EXISTING WALL 1m BELOW EXISTING RAINHEAD & RUN INTERNALLY ON WALL AT HIGH LEVEL
2. EXISTING DOWNPIPES FROM MAIN COMPARTMENT 1 ROOF & OFFICE ROOF TO CONNECT INDIVIDUALLY TO NEW Ø 300 DP.

1 H201 ROOF DRAINAGE LAYOUT
SCALE 1:250

SCALE: A1 SHEET 1:250, A3 SHEET 1:500
0 2.5 5 10 15 20 25 m

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

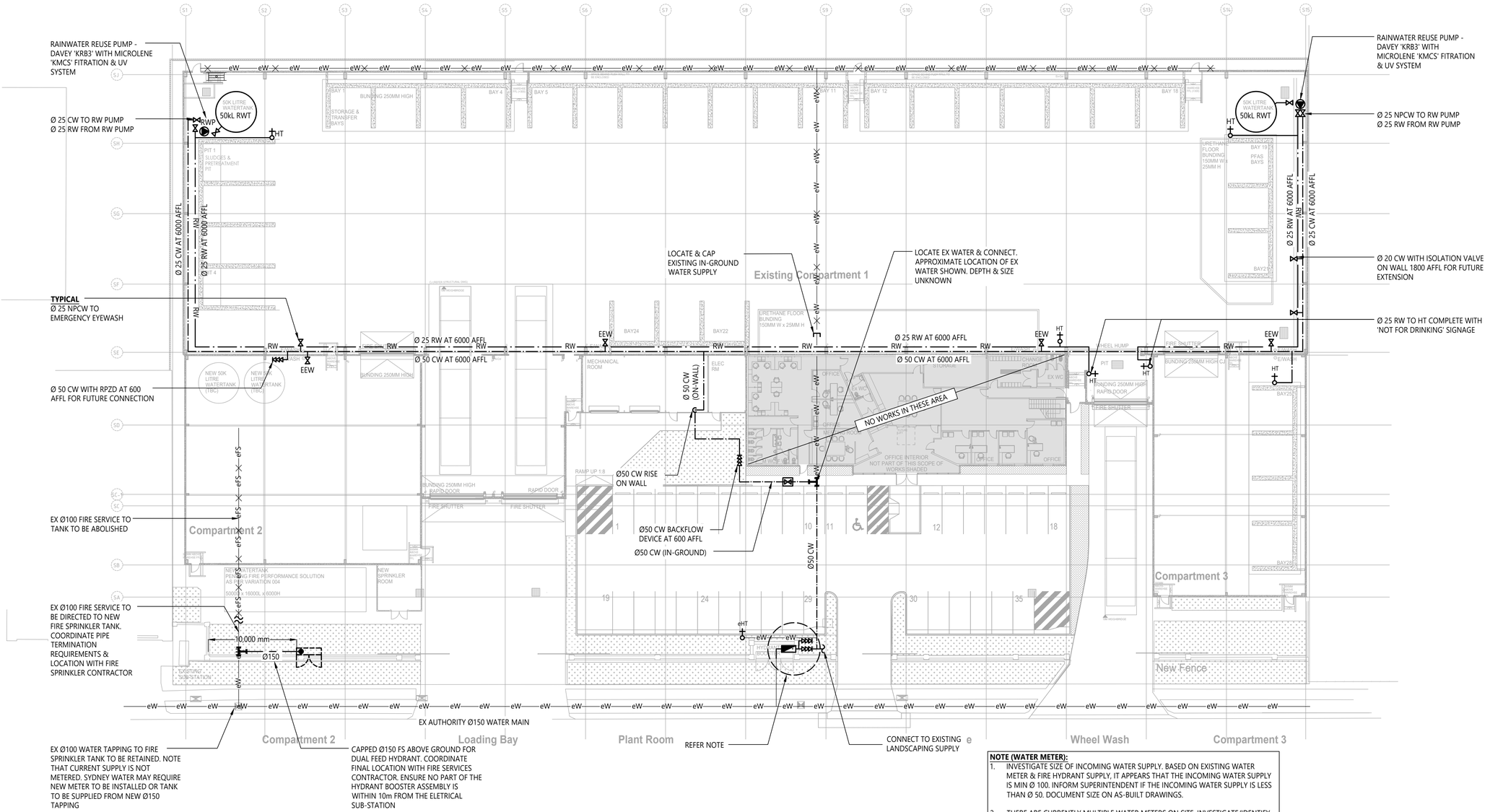
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DRAWING TITLE
HYDRAULICS SERVICES
ROOF DRAINAGE LAYOUT

SCALE	1:250	DATE	Aug-23	DRAWN	AC	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AL	CHECKED	AL	DRAWING NO.	H201

REVISION P1

NOTE:
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WATER LAYOUT

SCALE 1:250

NOTE (WATER METER):

1. INVESTIGATE SIZE OF INCOMING WATER SUPPLY. BASED ON EXISTING WATER METER & FIRE HYDRANT SUPPLY, IT APPEARS THAT THE INCOMING WATER SUPPLY IS MIN Ø 100. INFORM SUPERINTENDENT IF THE INCOMING WATER SUPPLY IS LESS THAN Ø 50. DOCUMENT SIZE ON AS-BUILT DRAWINGS.
2. THERE ARE CURRENTLY MULTIPLE WATER METERS ON SITE. INVESTIGATE/IDENTIFY WHAT EACH METER IS SUPPLYING. CONSOLIDATE ALL WATER METERS INTO A SINGLE METER & ABOLISH REDUNDANT SERVICES.
3. PROVIDE NEW Ø 50 WATER METER WITH
   - RPZD BACKFLOW ASSEMBLY FOR THE WATER SUPPLY TO THE BUILDING
   - RPZD BACKFLOW ASSEMBLY FOR FIRE HOSE REEL SUPPLY
4. ALL ISOLATION VALVE TO BE LOCKED OPEN & TAGGED. PROVIDE LABELLING TO FHR SUPPLY

SCALE: A1 SHEET 1:250, A3 SHEET 1:500

0 2.5 5 10 15 20 25 m

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ARCHITECT: iwolff

PROJECT

PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

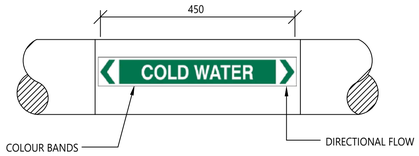
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DRAWING TITLE

HYDRAULICS SERVICES
WATER LAYOUT

SCALE	1:250	DATE	Sep-23	DRAWN	AC	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AL	CHECKED	AL	DRAWING NO.	H300

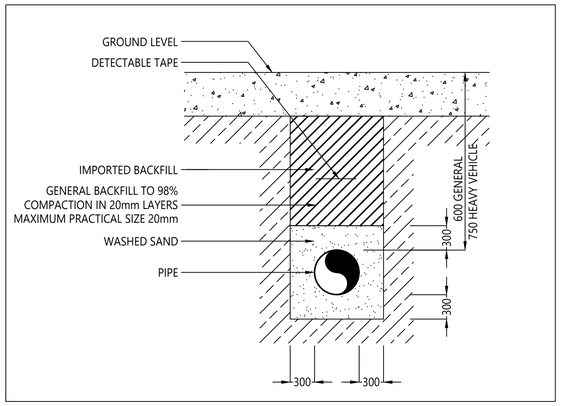
REVISION P1



ALL EXPOSED PIPING SHALL BE CLEANED FREE OF CEMENT DROPPINGS, ETC. AND BE PAINTED IN ACCORDANCE WITH A.S.1345 AND THE COLOUR CODING INDICATED BELOW.

SERVICE	COLOUR BANDS
SOIL, WASTE & VENT	BLACK
WATER (COLD / HOT / RAIN)	GREEN
FIRE SERVICE	RED
GAS SERVICE	YELLOW OCHRE
NON-POTABLE WATER	LILAC

1 H400 TYPICAL PIPE LABELLING DETAIL
SCALE NTS



2 H400 TYPICAL LARGE BORE PIPEWORK TRENCH DETAIL
SCALE NTS



ATTENTION:

DO NOT BLOCK THIS OUTLET. THIS IS A BOX GUTTER OVERFLOW OUTLET. PLEASE INFORM MANAGEMENT IF THERE IS WATER COMING OUT FROM THIS OUTLET.

3 H400 TYPICAL DETAIL - FLAP VALVE & SIGNAGE FOR OVERFLOW PIPE OF SUMP
SCALE NTS

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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DRAWING TITLE
HYDRAULICS SERVICES
TYPICAL DETAILS 1

SCALE	NTS	DATE	Aug-23	DRAWN	AC	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	AC	CHECKED	AL	DRAWING NO.	H400

REVISION P1

Prestons Waste Treatment Facility

Amendment Report

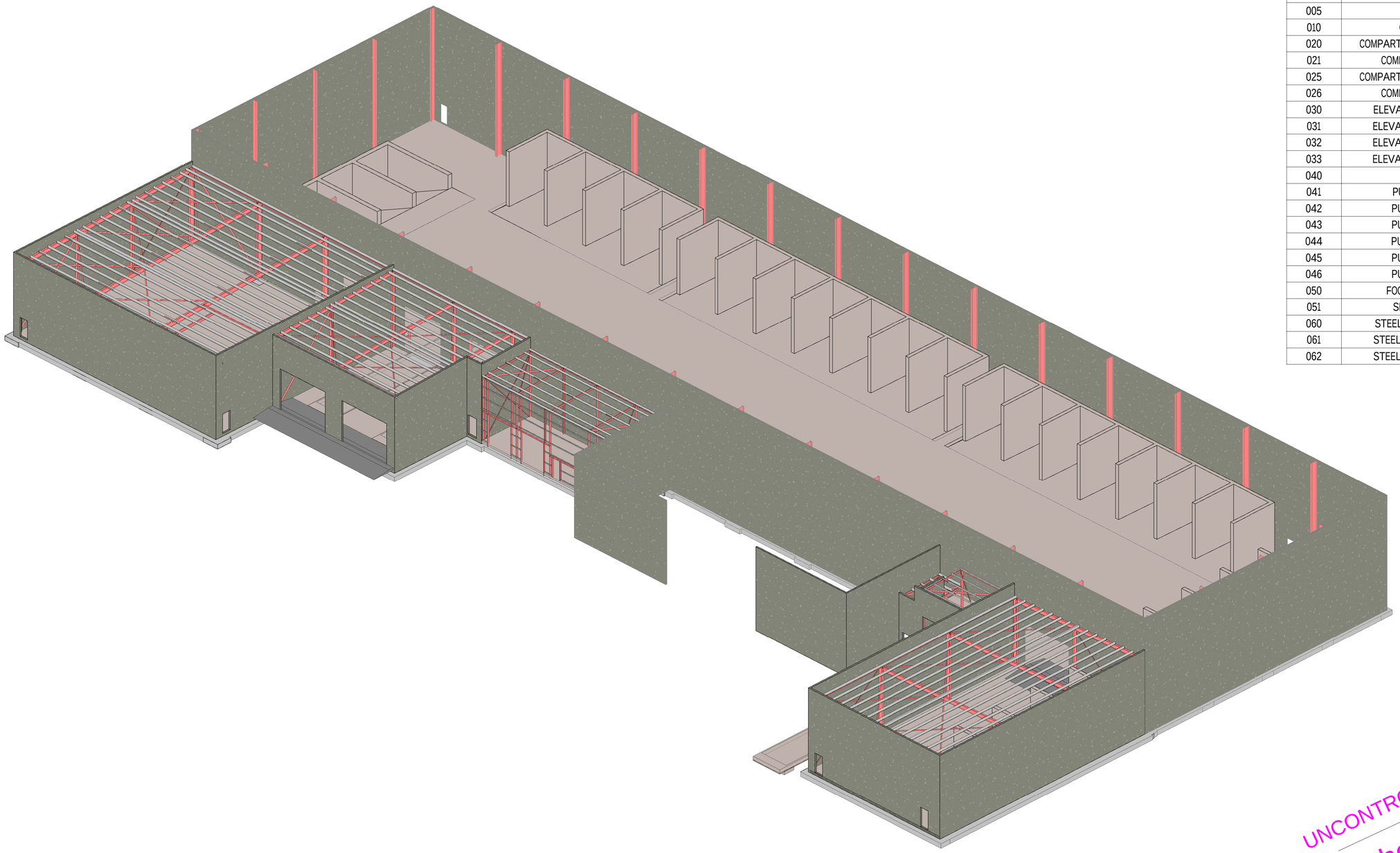
Appendix E5

Structural design

ARCADIS

PRESTONS WASTE TREATMENT FACILITY

DRAWING INDEX	
DRG#	DRAWING TITLE
001	COVER SHEET
002	GENERAL NOTES - SHEET 1
003	GENERAL NOTES - SHEET 2
004	GENERAL NOTES - SHEET 3
005	SCHEDULES
010	GENERAL ARRANGEMENT
020	COMPARTMENT 2 SLAB & FOOTINGS PLAN
021	COMPARTMENT 2 FRAMING PLAN
025	COMPARTMENT 3 SLAB & FOOTINGS PLAN
026	COMPARTMENT 3 FRAMING PLAN
030	ELEVATIONS & PROFILES - SHEET 1
031	ELEVATIONS & PROFILES - SHEET 2
032	ELEVATIONS & PROFILES - SHEET 3
033	ELEVATIONS & PROFILES - SHEET 4
040	PUSH PIT LAYOUT
041	PUSH WALL LAYOUT - PA1
042	PUSH WALL LAYOUT - PA2
043	PUSH WALL LAYOUT - PA3
044	PUSH WALL LAYOUT - PA4
045	PUSH WALL LAYOUT - PA5
046	PUSH WALL LAYOUT - PA6
050	FOOTING SECTIONS & DETAILS
051	SLAB SECTIONS & DETAILS
060	STEEL DETAILS S1 SHEET 01 OF 03
061	STEEL DETAILS S2 SHEET 02 OF 03
062	STEEL DETAILS S3 SHEET 03 OF 03



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REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
		REVISION IN PROGRESS			DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

SCALES AT A1 SIZE DRAWING

DESIGNER
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CHECK PRINT

DISCIPLINE	PRELIM. INITIAL	FINAL DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
COVER SHEET
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
N/A	PRELIM	30019108 - 001	B

A1 150 mm ON ORIGINAL
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

GENERAL NOTES:

G1 THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE GEOTECHNICAL REPORT, ALL DRAWINGS AND RELEVANT SPECIFICATION CLAUSES ISSUED BY ALL OTHER CONSULTANTS AND WITH SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED.

G2 FOR COST ESTIMATION AND FABRICATION PURPOSES, ALL STRUCTURAL STEEL AND SECONDARY STEEL MEMBERS TO BE REVIEWED BY CONTRACTOR ACCORDING TO BOTH STRUCTURAL AND ARCHITECTURAL DRAWINGS.

G3 ANY DISCREPANCY BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ENGINEER BEFORE WORK PROCEEDS.

G4 ALL DIMENSIONS SHALL BE VERIFIED ON SITE. DRAWINGS SHALL NOT BE SCALED.

G5 ALL CONSTRUCTIONS SHALL BE MAINTAINED IN A STABLE CONDITION DURING ERECTION AND OVER-STRESSING SHALL BE PREVENTED.

G6 AT ALL CORNERS AND TEE JUNCTIONS, PROVIDE TWO CORNER BARS TO BOTH TOP AND BOTTOM REINFORCEMENT. CORNER BARS TO BE THE SAME SIZE AS MAIN REINFORCEMENT AND LAPPED AS NOTED.

G7 FOR SETTING OUT DIMENSIONS REFER TO ARCHITECTURAL DRAWINGS. NO DIMENSIONS ARE TO BE OBTAINED BY SCALING FROM DRAWINGS.

G8 UNLESS OTHERWISE NOTED, ALL LEVELS ARE GIVEN IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.

G9 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND CODES OF PRACTICE EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR DRAWINGS.

G10 THE APPLICABLE STANDARDS SHALL BE THE REFERENCED INCLUDING AS 1170, AS 1684.2, AS 1720, AS 2870, AS 4055.

G11 EACH ASPECT OF STRUCTURAL WORK IS TO BE CHECKED BY THE ENGINEER AFTER THE BUILDER HAS SATISFIED THEMSELVES THAT IT IS CORRECT, AND BEFORE IT IS CONCEALED. THE ENGINEER IS TO BE GIVEN 1 WEEK NOTICE OF INSPECTION BEING REQUIRED.

G12 THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE POSITIONS, DEPTHS AND EXTENTS OF ALL UNDERGROUND AND OVERHEAD SERVICES INCLUDING MAINS, PIPES, CABLES AND OTHER APPARATUS THAT MAY BE AFFECTED BY THE WORKS PRIOR TO COMMENCING WORKS.

G13 THE BUILDER SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING DURING THE DISMANTLING, RELOCATING AND RECONSTRUCTION UNTIL THE STRUCTURE IS COMPLETE.

G14 THE DOCUMENTED DESIGN CONSTITUTES THE MAIN STRUCTURAL FRAMING BUT DOES NOT INCLUDE A FULL SCOPE OF SECONDARY STEEL. THE CONTRACTOR IS RESPONSIBLE FOR ALL STEEL SHOWN ON THE ENGINEERS AND ARCHITECTURAL DRAWINGS.

G15 THE STRUCTURAL DRAWINGS DO NOT SHOW ALL DETAILS OF FIXTURES, INSERTS, SLEEVES, OPENINGS, ETC. REQUIRED BY THE VARIOUS TRADES. ALL SUCH DETAILS, INCLUDING OPENINGS FOR CONSTRUCTION PURPOSES MUST BE APPROVED.

GENERAL NOTES CON'T:

G16 DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXCAVATION, STRUCTURE AND ADJACENT STRUCTURES IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.

G17 THE STRUCTURAL DESIGN CRITERIA ARE:

GENERAL:

- IMPORTANCE LEVEL	= 2
- ANNUAL PROBABILITY OF EXCEEDANCE	= 1:500 (WIND)
	= 1:500 (EARTHQUAKE)

IMPOSED LOADS:

- ROOF	= (1.8/A+0.12) ≥ 0.25kPa
- PARKING	= 2.5 kPa
- CORRIDOR	= 4 kPa
- BALCONY	= 2 kPa
- STAIRS/LANDINGS	= 2 kPa
- RESIDENTIAL AREA	= 1.5 kPa

WIND LOADS

- TERRAIN CATEGORY	=3
- REGIONAL GUST WIND SPEED	$V_{R(2500)}$=45m/s
- DIRECTIONAL MULTIPLIER	M_d =1.0
- TERRAIN / HEIGHT MULTIPLIER	$M_{z(CAT)}$=0.83
- SHIELDING MULTIPLIER	M_s =1.0
- TOPOGRAPHIC MULTIPLIER	M_t =1.0

EARTHQUAKES LOADS

- IMPORTANCE LEVEL	=2
- PROBABILITY FACTOR	=1
- HAZARD FACTOR	=0.1
- EARTHQUAKE DESIGN CATEGORY	=2

G18 INFORMATION OF EXISTING SERVICES & UTILITIES ARE BASED ON SURVEY DATA AVAILABLE AT THE TIME OF DESIGN. AS SUCH THE ACCURACY & EXISTENCE OF THIS & OTHER MISSING INFORMATION SHOULD BE VERIFIED BEFORE WORK COMMENCES ON SITE.

G19 THE METHOD OF CONSTRUCTION AND THE MAINTENANCE OF SAFETY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. IF ANY STRUCTURAL ELEMENT PRESENTS DIFFICULTY IN RESPECT OF CONTRACTIBILITY OR SAFETY, THE MATTER SHALL BE REFERRED TO THE CONTRACTOR FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

STEELWORK NOTES:

S1 ALL STEELWORK AND FABRICATION TO COMPLY WITH AS4100 2020 AND THE RELEVANT CODES REFERRED TO THEREIN.

S2 BOLT SYMBOLS:
- 4.6/S METRIC HEX COMMERCIAL BOLT TO AS1111 (GRADE 4.6) SNUG TIGHTENED
- 8.8/S METRIC HIGH STRENGTH BOLTS TO AS1252 (GRADE 8.8) SNUG TIGHTENED
- 8.8/TF METRIC HIGH STRENGTH BOLTS TO AS1252 (HSFG) (GRADE 8.8) FRICTION GRIP TENSIONING TO AS1511.

S3 UNLESS OTHERWISE NOTED THE FOLLOWING SHALL APPLY:
- a) ALL BOLTS M20 8.8/S WITH 2mm HOLE CLEARANCE
- b) ALL WELDS 6mm CONTINUOUS FILLET TO AS1554
- c) ALL BUTT WELDS SHALL BE COMPLETE PENETRATION TO AS1554.
- d) ALL PLATES, CLEATS, etc., 10mm THICK
- e) ALL CONNECTIONS TO BE 2-M20 BOLTS.

S4 THE STEELWORKER SHALL PROVIDE ALL CONNECTIONS NECESSARY FOR THE STRUCTURE FOR FIXING STEEL/STEEL, STEEL/CONCRETE, STEEL/TIMBER ETC. WHETHER OR NOT SUCH CONNECTIONS ARE DETAILED IN DRAWINGS.

STEELWORK NOTES CON'T:

S5 THE STEELWORK SHALL BE PROTECTED FROM CORROSION.

S6 E48XX ELECTRODES SHALL BE USED FOR ALL WELDS UNLESS NOTED OTHERWISE.

S7 TESTING OF WELDS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION AND AS REQUIRED BY THE ENGINEER.

S8 ALL EXPOSED GALVANIZED STEELWORK TO BE FREE FROM BURRS, RUN MARKS ETC.

S9 WELDING TO BE CARRIED OUT IN ACCORDANCE WITH AS1554.1. WELDING CONSUMABLES TO BE E48XX OR W50X U.N.O. ALL WELDS TO BE 6mm CFW SP CATEGORY OR CPBW SP CATEGORY U.N.O. INSPECTION TO BE CARRIED OUT TO AS1554.1.

S10 BOLT THREADS SHALL BE SUITABLY PROTECTED FROM DAMAGE.

S11 ALL STEELWORK AND FABRICATION TO COMPLY WITH THE CURRENT EDITION OF AS4100, THE RELEVANT CODES REFERRED TO HEREIN AND STRUCTURAL STEEL SPECIFICATION.

S12 ALL STRUCTURAL WORKS AND FABRICATION TO COMPLY WITH REQUIREMENTS FOR A DESIGN LIFE OF 50-YEARS.

S13 SEALING ENDS OF SHS AND RHS SECTION PROVIDE 4mm CAP PLATE SEAL WELDED ALL AROUND TO THE END OF ALL SHS AND SHS SECTIONS THAT ARE NOT EFFECTIVELY SEALED. FOR GALVANIZED SECTIONS PROVIDE ADEQUATE DRAINAGE HOLES AS REQUIRED.

S14 PURLINS AND GIRTS:
PURLINS AND GIRTS ARE DESIGNED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR LYSAGHT PRODUCTS. ALTERNATIVE MANUFACTURERS MAY BE USED UPON RECEIPT OF WRITTEN APPROVAL FROM THE ENGINEER. CHECK PURLIN AND GIRT SPACING TO SUIT CLADDING AND PROVIDE ADDITIONAL PURLINS AND GIRTS AS REQUIRED. (TYPICAL)

S15 ROOF BRACING:
ROD AND ANGLE BRACING SHALL BE HUNG FROM PURLINS (BUT NOT IN CONTACT WITH PURLINS) TO ELIMINATE EXCESSIVE SAG.

S16 FRAMING AROUND OPENINGS:
PROVIDE SECONDARY FRAMING TO ALL DOORS AND OTHER OPENINGS FOR THE SUPPORT OF MEMBERS AS SPECIFIED. THESE ARE TO BE DESIGNED AND DETAILED BY OTHERS (AND/OR THE MANUFACTURER). CHECK THE LOCATION OF COLUMNS TO DOORWAYS IN RELATION TO THE BUILDING TO ENSURE CORRECT PLACEMENT. FIX SECONDARY MEMBERS AS REQUIRED BY OTHERS.

S17 ADDITIONAL PURLINS AND GIRTS:
PROVIDE ADDITIONAL PURLINS AND GIRTS TO THOSE SHOWN, AS MAY BE REQUIRED FOR ANY ROOF &/OR WALL SHEETING REQUIREMENTS.

S18 TESTING OF WELDS AND ITS FREQUENCY SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, AS1554 AND AS REQUIRED BY THE ENGINEER.

S19 ADDITIONAL ROOF SUPPORT FRAMING:
PROVIDE ADDITIONAL SECONDARY ROOF FRAMING MEMBERS FOR THE SUPPORT OF THE BUILDING SERVICES, AIR CONDITIONING ETC.

STEELWORK NOTES CON'T:

S20 BOX GUTTERS:
BOX GUTTER SIZES, DOWNPIPES AND RAINHEADS AS DESIGNED AND DETAILED BY OTHERS TO SUIT ROOF SIZE & WATER VOLUMES EXPECTED. FOR BOX GUTTER SUPPORT DETAILS REFER TO MANUFACTURER'S SPECIFICATIONS AND DETAILS. PROVIDE ADDITIONAL PURLINS AS REQUIRED FOR BOX GUTTER SUPPORT.

S21 STEELWORK BUILT INTO BRICKWORK:
WHERE STEELWORK IS BUILT INTO BRICKWORK PROVIDE BRICK TIES FIXED TO THE APPROPRIATE MEMBER FACE AT 400 VERTICAL CENTRES AND 600 HORIZONTAL CENTRES. WIRE TIES ARE TO BE WELDED TO THE STEELWORK OR FIXED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND DETAILS.

S22 ALL REQUIRED "FALL PROTECTION" FIXINGS TO BE PROVIDED BY CONTRACTOR AND INSTALLED AS PER MANUFACTURER SPECIFICATIONS.

CONCRETE NOTES:

C1 ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS3600-2018, AS5100.5-2017 AND TS0710 AND THE RELEVANT CODES REFERRED TO WITHIN EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

C3 BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS. BEAMS AND SLABS ARE TO BE POURED TOGETHER UNLESS NOTED OTHERWISE.

C4 ALL EXPOSED CONCRETE CORNERS TO HAVE 15mm CHAMFER U.N.O.

C5 REINFORCEMENT STEEL REQUIREMENTS:
- DEFORMED BARS DENOTED 'N' TO AS4671 MINIMUM YIELD STRENGTH 500MPa
- STEEL WIRE PLAIN AND DEFORMED DENOTED 'W' TO AS4671 MINIMUM YIELD STRENGTH 450MPa
- WELDED WIRE FABRIC DENOTED 'SL' TO AS4571 MINIMUM YIELD STRENGTH 500MPa.

C6 REINFORCEMENT SPLICING SHALL BE IN THE POSITIONS SHOWN UNLESS OTHERWISE APPROVED BY THE ENGINEER LAPS ARE TO BE:

N12 500mm	N24 1000mm
N16 700mm	N28 1200mm
N20 800mm	N32 1300mm
N36 1500mm	

C7 FABRIC SHALL BE LAPPED IN ACCORDANCE WITH AS5100.5-2017 FIG. 13-2-3, FABRIC LAP, 2 CROSS WIRES PLUS 25mm.

C8 CONCRETE SLUMP TO BE 120 ± 30mm UNLESS NOTED OTHERWISE.

C9 CONCRETE STRENGTH UNLESS NOTED OTHERWISE TO BE:

FOOTINGS	f'c=25 MPa
SLAB ON GROUND	f'c=25 MPa
SUSPENDED SLABS	f'c=32 MPa
COLUMNS	f'c=40 MPa
PRECAST PANELS	f'c=40 MPa
LIFT PIT	f'c=32 MPa
STAIRS	f'c=32 MPa
BEAMS	f'c=32 MPa

MAXIMUM AGGREGATE SIZE SHALL BE 20mm.

CONCRETE NOTES CON'T:

C10 COVER TO REINFORCEMENT IS TO BE MAINTAINED BY APPROVED STEEL CHAIRS.

a) CAST AGAINST FORMWORK COMPLYING WITH AS3610

	NOT EXPOSED TO WEATHER	EXPOSED TO WEATHER
PAD FOOTINGS	50mm	50mm
RAFT FOOTINGS	50mm	50mm
SLABS	30mm	30mm
BEAMS	30mm	30mm
COLUMNS	30mm	30mm
WALLS*	25mm (IF)	30mm (EF)

* IF - INTERNAL FACE, EF - EXTERNAL FACE

b) CAST AGAINST GROUND OR NON-COMPLYING FORMWORK

	DAMP PROOF MEMBRANE	NO DAMP PROOF MEMBRANE
PAD FOOTINGS	50mm	50mm
RAFT FOOTINGS	50mm	75mm
SLABS	30mm	75mm

C11 COVER TO SLAB ON GROUND:

BOTTOM	50mm
SIDES	75mm
TOP	50mm

C12 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN ON THE DRAWINGS OR SPECIFICALLY APPROVED BY THE ENGINEER.

C13 CONCRETE MUST BE CURED BY AN APPROVED METHOD IN ACCORDANCE WITH THE SPECIFICATION FOR SEVEN DAYS AFTER POURING.

C14 CONCRETE COVER TO REINFORCEMENT SHALL BE MAINTAINED BY APPROVED CHAIRS AND IS AS FOLLOWS, UNLESS NOTED OTHERWISE:
- a) CAST AGAINST FORMWORK COMPLYING WITH AS3610
PROVIDE MINIMUM REINFORCEMENT COVER OF 60mm ON TOP, 45mm BOTTOM AND SIDES OF SLAB.

C15 ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS AT 1000mm MAXIMUM CENTRES. THE CHAIR MATERIAL SHALL SUIT THE EXPOSURE CONDITIONS.

C16 PIPES AND CONDUIT LOCATIONS AND DETAILS SHALL BE APPROVED BY THE ENGINEER. MINIMUM COVER TO REINFORCEMENT 25mm. SEWER AND WATER PIPE - REFER TO GENERAL NOTES AND FOOTING CONSTRUCTION REPORT FOR LAGGING AND FLEXIBLE CONNECTION REQUIREMENTS.

C17 WELDING OR HEATING OF REINFORCEMENT IS NOT PERMITTED UNLESS APPROVED BY THE ENGINEER.

C18 ALL STEEL INSERTS SHALL BE HOT DIP GALVANIZED.

C19 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C20 BARS SHALL BE EVENLY DISTRIBUTED OVER THE WIDTH OF THE STRIP INDICATED ON THE DRAWINGS UNLESS NOTED OTHERWISE.

C21 BARS SHOWN STAGGERED ON PLAN SHALL BE PLACED ALTERNATELY.

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150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

REVIT MODEL NAME

PLOT DATE

NOT FOR CONSTRUCTION

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

DESIGNER
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© ABN 47 065 475 149
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	PRELIM.	FINAL
	INITIAL	DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
GENERAL NOTES - SHEET 1
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
N/A	PRELIM	30019108 - 002	B

CONCRETE NOTES CON'T:

C22 REINFORCEMENT LENGTHS INDICATED ARE IN MILLIMETRES AND ARE PLAN LENGTH ONLY. TURN DOWNS AND CRANKS ARE NOT INCLUDED IN THE DIMENSION. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION OR SCALE.

C23 3N12 DIAGONAL CORNER BARS 1800mm LONG ARE REQUIRED AT ALL RE-ENTRANT CORNERS.

C24 FORMWORK AND BACK PROPPING SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH TS0710 AS3610.

C25 ALL CEMENT IS TO BE "GP" GENERAL PURPOSE PORTLAND CEMENT OR "GB" GENERAL PURPOSE BLENDED CEMENT OR TYPE "SR" SULPHATE-RESISTING.

C26 CEMENT AS REQUIRED COMPLYING WITH AS3972 UNLESS NOTED OTHERWISE ON THE DRAWINGS EXTRA RAPID HARDENING AND HIGH ALUMINA CEMENTS AND CEMENTS CONTAINING CHLORIDE SHALL NOT BE USED.

C27 THE USE OF FLY ASH AND/OR SILICA FUME AS A CEMENT SUBSTITUTE, OTHER THAN THAT PROPORTION ALLOWED AS PART OF THE "GB" CEMENT CONTENT WILL ONLY BE PERMITTED AS PART OF A DESIGNED CONCRETE MIX WHICH HAS BEEN APPROVED IN WRITING BY THE ENGINEER.

C28 (D) DENOTES SPECIAL DURABLE CONCRETE WHERE THE ELEMENT HAS AT LEAST ONE FACE EXPOSED TO THE WEATHER OR POSSIBLE CORROSIVE ATTACK. (THIS CONCRETE REQUIRES A SPECIAL TOLERANCE FOR THE COVERS OF - 0mm + 10mm). SPECIAL PRECAUTIONS ARE REQUIRED TO IMPROVE THE LONG TERM PERFORMANCE OF THESE FACES OF CONCRETE. IN PARTICULAR, NO METAL INSERTS, METAL BAR CHAIRS OR METAL FORM SPACERS OF ANY KIND ARE TO BE PLACED IN THE COVER ZONES WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER. TAKE SPECIAL CARE TO AVOID SCRAP TIE WIRE OR OTHER MATERIAL BEING PRESENT. REFER DRAWINGS FOR LOCATIONS.

C29 FREE DROPPING OF CONCRETE FROM A HEIGHT GREATER THAN 1000mm IS NOT PERMITTED.

C30 SURFACES RECEIVING GROUT SHALL BE LEFT ROUGH AND FREE OF LAITANCE.

HEALTH & SAFETY NOTES:

HS1 COORDINATE/COMPLY WITH ONSITE SAFETY AND EMERGENCY PROCEDURES.

HS2 THE MAIN CONTRACTOR & ALL SUB CONTRACTORS MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY ACTS (INCLUDING SA WORK HEALTH & SAFETY ACT2012 & SA WORK HEALTH & SAFETY & REGULATIONS 2012). APPROVED CODES OF PRACTICE, GUIDANCE NOTES, AUSTRALIAN STANDARDS & OTHER RELEVANT DOCUMENTATION.

HS3 CURRENT LEGISLATION REQUIRES THAT ALL PERSONS ARE TO CONSIDER THEIR ACTIONS OR LACK OF ACTION ON THE HEALTH & SAFETY OF THEMSELVES & OTHERS. ADVICE ON SAFETY LEGISLATION IS AVAILABLE FROM THE HEALTH & SAFETY EXECUTIVE OR OFFICER NOMINATED FOR THE PROJECT AND THE SOUTH AUSTRALIAN WHS REGULATIONS THEMSELVES.

HEALTH & SAFETY NOTES CON'T:

HS4 THE MAIN CONTRACTOR & ALL SUBCONTRACTORS SHALL IDENTIFY HAZARDS OR WORK SEQUENCES WHICH MAY BE A RISK TO THE HEALTH & SAFETY OF CONSTRUCTION WORKERS. IF POSSIBLE, ELIMINATE THE RISK COMPLETELY AS PER HIERARCHY OF CONTROLS MANAGEMENT, IF NOT, ADVISE THE SITE MANAGEMENT FOR INCLUSION IN THE HEALTH & SAFETY PLAN AND INCORPORATE INTO CONTRACTORS JSA'S.

HS5 THE MAIN CONTRACTOR & ALL SUB CONTRACTORS SHALL CARRY OUT RISK ASSESSMENTS FOR ALL OF THEIR ACTIVITIES & WHERE NECESSARY INTRODUCE SUITABLE MEASURES TO MANAGE THESE RISKS AND WHERE NEEDED PROVIDE APPROPRIATE PROTECTIVE CLOTHING/EQUIPMENT. COPIES OF THE RISK ASSESSMENTS MUST BE PROVIDED TO THE SITE MANAGEMENT FOR REVIEW AND PRIOR TO ANY SITE WORKS.

HS6 EXCAVATIONS REQUIRED FOR THE WORKS OR INSTALLATION OF SERVICES SHALL BE IN ACCORDANCE WITH WORK HEALTH & SAFETY APPROVED CODE OF PRACTICE. "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS", & ALL OTHER NECESSARY STATUTORY AUTHORITY REGULATIONS & RECOMMENDATIONS. NO ONE SHALL ENTER AN EXCAVATION, PIT OR TRENCH EXCEEDING 1.5m IN DEPTH UNLESS APPROPRIATE MEASURES ARE TAKEN TO PREVENT COLLAPSE.

HS7 ELECTRICAL EQUIPMENT USED ON SITE MUST BE INSPECTED & TAGGED ON A REGULAR 3 MONTHLY BASIS BY A PERSON CERTIFIED COMPETENT TO UNDERTAKE THE TESTING, IN ACCORDANCE WITH THE PERFORMANCE SPECIFICATIONS OF AS 3760 : IN-SERVICE SAFETY 2010 INSPECTION & TESTING OF ELECTRICAL EQUIPMENT, AS 3012 : 2019 ELECTRICAL INSTALLATIONS - CONSTRUCTION & DEMOLITION SITES. A REGISTER OF ALL TESTED & TAGGED ITEMS WILL BE PROVIDED BY THE SERVICE CONTRACTOR.

HS8 ALL CONSTRUCTIONS SHALL BE MAINTAINED IN A STABLE CONDITION DURING PROJECT WORKS. PROVIDE TEMPORARY SUPPORT, INCLUDING SHORING WHERE REQUIRED TO SUPPORT EXCAVATIONS AND ADJACENT STRUCTURE.

HS9 OPERATE MACHINERY IN ACCORDANCE WITH APPROVED SAFEWORK PROCEDURES.

HS10 PROVIDE FENCING, SIGNAGE AND TRAFFIC CONTROL.

FOOTING NOTES:

F1 FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE/SERVICEABILITY BEARING PRESSURE AS SHOWN ON THE FOOTING DRAWINGS.

F2 ALL FOOTING EXCAVATIONS SHALL BE CLEANED OF LOOSE UNCOMPACTED MATERIAL AND WATER PRIOR TO PLACING CONCRETE.

F3 UNLESS OTHERWISE NOTED ON THE DRAWINGS, LOCATE ALL PIPES, RETAINING WALLS AND EXCAVATIONS OUTSIDE A 1:1 VERTICAL & HORIZONTAL ZONE OF INFLUENCE FROM THE BOTTOM EDGE OF THE FOOTING.

F4 DO NOT ALLOW WATER TO INFILTRATE THE FOUNDATION EXCAVATION AT ANY POINT DURING THE FOUNDATION CONSTRUCTION.

F5 STRIP ALL TOP SOIL FROM THE CONSTRUCTION AREA. ALL STRIPPED TOPSOIL IS TO BE CONSERVED ON SITE UNLESS DIRECTED OTHERWISE BY THE ARCHITECT.

FOOTING NOTES:

F6 PRIOR TO PLACEMENT OF MASS CONCRETE BLINDING LAYER OR CONCRETE, THE FOUNDING MATERIAL ASSUMPTIONS SHALL BE VALIDATED BY THE ENGINEER. THE CONTRACTOR SHALL ENSURE THAT ANY NECESSARY FOUNDATION TREATMENT HAS BEEN COMPLETED PRIOR TO COMMENCING CONSTRUCTION OF THE FOUNDATION.

F7 THE SUPERINTENDENT SHALL BE ADVISED IMMEDIATELY IF ANY UNEXPECTED GROUND WATER IS ENCOUNTERED ON SITE.

F8 USE SUITABLE CONSTRUCTION TECHNIQUES AND EQUIPMENT FOR BACKFILLING ADJACENT TO STRUCTURES TO PREVENT OVERSTRESS AND DAMAGE. BACKFILL EVENLY TO AVOID DIFFERENTIAL SOIL PRESSURES ON STRUCTURES. BACKFILL AGAINST RETAINING WALLS ONLY AFTER SPECIFIED CONCRETE STRENGTH IS ACHIEVED, AND PERMANENT SUPPORT INSTALLED WHERE APPLICABLE.

F9 FOR FOOTINGS, A GEOTECHNICAL REDUCTION FACTOR SHALL BE APPLIED TO THE ULTIMATE END BEARING CAPACITY TO OBTAIN THE DESIGN GEOTECHNICAL CAPACITY IN ACCORDANCE WITH AS 5100.3-2004.

F10 WHERE THERE HAS BEEN A DELAY OF MORE THAN 24 HOURS BETWEEN CERTIFICATION AND COMMENCEMENT OF FOUNDATION CONSTRUCTION OR WHEN FOUNDATION EXCAVATION HAS BEEN OBSERVED TO DETERIORATE SIGNIFICANTLY, THE FOUNDATION EXCAVATION SHALL BE RE-CLEANED AND RE-INSPECTED.

F11 BACKFILL OVER AND ADJACENT TO STRUCTURES SHALL NOT COMMENCE UNTIL THE STRUCTURAL CONCRETE HAS REACHED THE SPECIFIED 28 DAY STRENGTH U.N.O. TOTAL LOADING DURING THE BACKFILLING OPERATIONS SHALL NOT EXCEED THE CONSTRUCTION LOADING ALLOWANCES SHOWN IN THE LOADING TABLE.

F12 WHEN EARTHWORK STARTS NOTIFY GEOTECHNICAL ENGINEER TO EVALUATE MATERIAL, AS EXCAVATION PROCEED TO SEE IF FILL LEVEL DEPTH REQUIRED CAN BE REDUCED.

F13 PLINTH MAY BE REQUIRED FOR FOOTINGS OF TANKS LARGER THAN 50kL WITHIN WWTP

F14 FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 60 kPa

F15 FOOTINGS ARE TO BE FOUNDED INTO THE UNDERLYING NATURAL GROUND. BLINDING CONCRETE MAY BE REQUIRED

CIVIL NOTES:

CV1 BUILDER SHALL VERIFY ALL LEVELS, DIMENSIONS AND LOCATIONS OF EXISTING SERVICES ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS OR SHOP DRAWINGS.

CV2 ANY DISCREPANCIES IN SITE CONDITIONS AND OR DOCUMENTATION TO BE REPORTED. TO THE ARCHITECT IN CHARGE PRIOR TO COMMENCEMENT OF ANY WORKS.

CV3 THIS DRAWING TO BE READ IN CONJUNCTION WITH ANY CIVIL, STRUCTURAL, ARCHITECTURAL AND SERVICES DRAWINGS FOR COORDINATION AND CONSTRUCTION. REFER ALSO TO 'SA POWER NETWORKS TECHNICAL STANDARD - TS-085 TRENCHING AND CONDUIT STANDARD FOR UNDERGROUND DISTRIBUTION CABLE NETWORKS', LATEST EDITION.

CV4 ALL PIPE SIZES GIVEN ARE FOR MINIMUM INTERNAL DIAMETERS.

CV5 CONTRACTOR TO CONFIRM INVERTS OF ALL EXISTING PIPES AND SUMPS PRIOR TO CONNECTING AND LAYING NEW PIPEWORK. ADVISE ENGINEER IF THERE ARE ANY DISCREPANCIES TO DESIGN INTENT.

CV6 REFER TO ARCHITECT FOR DEMOLITION, AND SETOUT DETAILS, THE USE OF THESE DRAWINGS FOR SET OUT IS AT THE CONTRACTORS RISK. THESE DRAWINGS SHALL NOT BE USED FOR GPS CO-ORDINATES.

CV7 EXISTING BITUMEN SHALL BE SAWCUT IF NECESSARY AND AS SHOWN ON THE DRAWINGS TO PROVIDE A CLEAN EDGE WHERE PROPOSED NEW PAVING ABUTS.

CV8 THE BUILDER SHALL BACKFILL TO TOP OF KERBS/PATHS IN ALL LANDSCAPING AREAS WITH APPROVED SITE TOPSOIL TO ARCHITECTS LANDSCAPE PLAN.

CV9 CONTRACTOR TO ALLOW FOR AND ADJUST HEIGHTS OF COVERS TO EXISTING SERVICES, PITS AND GRATES ETC TO SUIT NEW PROPOSED LEVELS.

CV10 THE CONTRACTOR SHALL ALLOW FOR AND REINSTATE ANY SURFACE NOT INCLUDED IN THE WORKS BUT WHICH HAS BEEN DISTURBED.

CV11 ALL STORMWATER JUNCTION BOXES, GRATED INLET PITS, GRATED STRIP DRAINS ETC. TO HAVE HEAVY DUTY GRATES, COVERS AND FRAMES UNLESS NOTED OTHERWISE. (CLASS 'D' MINIMUM WITH LOCKED DOWN FIXINGS). HOT DIP GALVANIZED, U.N.O

CV12 ALL LINEMARKING AND SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1742.

CV13 CONSTRUCTION OF ALL STORMWATER DRAINAGE IN ACCORDANCE WITH AS/NZS 3500.3 U.N.O.

CV14 100DIA. UPVC STORMWATER PIPES SHALL BE CLASS SN6 U.N.O. 1500 AND 2250 UPVC STORMWATER PIPES SHALL BE CLASS SN4 U.N.O. REINFORCED CONCRETE PIPES SHALL BE RUBBER RING JOINTED AND CLASS 3 U.N.O.

CV15 ALL MINOR CIVIL CONCRETE (KERBS, GUTTER, EDGE STRIPS ETC) TO BE GRADE N25 (UNLESS NOTED OTHERWISE). PROVIDE 50mm CLEAR COVER TO REINFORCEMENT (U.N.O). PROVIDE TOOLED GROOVE JOINTS AT 3.0m MAX CENTRES (OR TO MATCH LOCATIONS OF ADJACENT SLAB JOINTS) IN ALL KERBS AND WATERTABLES. PROVIDE EXPANSION JOINTS AT 6.0m CENTRES MAX.

CIVIL NOTES CONT':

CV16 ALL PIPES TO BE SEALED, INCLUDING CONNECTIONS INTO JUNCTION BOXES, GRATED INLET PITS, GRATED STRIP DRAINS ETC.

CV17 SERVICE TRENCHING AT ALL LOCATIONS U.N.O. BACKFILL TO SERVICE TRENCHING TO BE COMPACTED TO 98% STANDARD OR 95% MODIFIED WHERE APPLICABLE. SERVICE TRENCHING THROUGH LANDSCAPE AREAS TO BE 95% STANDARD, REFER SITE PREPARATION FOR SUPERVISION AND TESTING REQUIREMENTS.

CV18 CIVIL CONTRACTOR IS TO BE RESPONSIBLE FOR PROVIDING AS BUILT CIVIL INFORMATION AT TIME OF PRACTICAL COMPLETION INCLUDING FINAL STORMWATER LAYOUTS INDICATING PIPE RUNS, SUMPS, SWALES , EXTENT AND GRADE OF BATTERS ETC. THIS IS TO INCLUDE PIPE SIZES, INVERT AND TOP OF PIT LEVELS. THE AS BUILT DRAWING SHOULD ALSO VERIFY SURFACE LEVELS COMPLY WITH DOCUMENTATION, WHERE AS BUILT SURFACE LEVELS VARY THE CIVIL CONTRACTOR MUST ENGAGE THE CONSULTING ENGINEER TO REVIEW AND CONFIRM ACCEPTANCE AT OWN COSTS. THE INFORMATION IS TO BE ISSUED IN AUTO CAD FORMAT AND PDF AND BEAR THE CIVIL CONTRACTORS DETAILS.

CV19 CONTRACTOR TO UNDERTAKE CCTV INSPECTION AND REPORT OF ALL COMPLETED STORMWATER INFRASTRUCTURE.

CV20 NO SURFACE INLETS (SUMPS OR GRATED INLET PITS) PERMITTED INTO SEALED SYSTEM. SEALED SYSTEM TO BE CONSTRUCTED TO PRESSURE LINE STANDARD (SOLVENT WELDED JOINTS FOR PVC PIPE) PREFERABLY STATIC WATER TESTED BEFORE BACKFILLING.

CV21 DUE TO THE POSSIBLE SERIOUS CONSEQUENCE OF BLOCKAGE OF THE SYSTEM BY SILT OR LEAF LITTER ETC. - REGULAR FLUSHING AND MAINTENANCE (AT LEAST 4 TIMES PER YEAR) BY OWNER IS REQUIRED.

CV22 CLEANING POINT - SCREWED INSPECTION CAP AT SYSTEM EXTREMITY SO THAT SYSTEM CAN BE FLUSHED OR DRAINED BY GRAVITY AND CLEANED.

CV23 LEAF GUARDS AT DOWNPIPE DESIRABLE, BUT MUST BE CLEARED REGULARLY.

CV24 LANDSCAPE RETAINING WALL SLOTTED AG PIPES ARE TO BE CONNECTED TO ADJACENT STORM WATER PITS OR SURFACE DRAINS.

CV25 THE SUB-CONTRACTOR IS TO NOTE THAT STORMWATER PIPES ARE DESIGNED FOR INSERVICE LOADING AT FINISHED SURFACE. THE CONTRACTOR SHALL CHECK PIPE STRENGTHS FOR THE COMBINATIONS OF CONSTRUCTION TRAFFIC AT APPLIED LEVEL. INCREASE PIPE CLASSES TO ACCOMMODATE CONSTRUCTION LOADS AS REQUIRED. RESPONSIBILITY FOR STRUCTURAL INTEGRITY OF THE STORMWATER PIPES RESTS SOLELY WITH THE CONTRACTOR WHOM MUST UNDERTAKE MEASURES DEEMED APPROPRIATE TO ACHIEVE THIS.

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REVIT MODEL NAME

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					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

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SCALES AT A1 SIZE DRAWING

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PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
GENERAL NOTES - SHEET 2
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
N/A	PRELIM	30019108 - 003	B

CONCRETE FLOOR COVERINGS/SEALINGS

CF1 CUT ALL JOINTS TO HAVE A 15mm x 15mm STRIP

CF2 FILL STRIP WITH SEMI-RIGID EPOXY

CF3 COVER CONCRETE WITH AQURON 7000 FROM MARKHAM GLOBAL

LINTELS TO OPENINGS IN MASONRY NOTES:

L1 TYPICAL LINTEL DETAILS FOR LINTELS NOT SPECIFICALLY COVERED ON THESE DRAWINGS

L2 TYPE OF MATERIAL: MILD STEEL GALVANIZED, CLASS Z600

L3 STEEL FLATS AND ANGLES TO COMPLY WITH THE TABLE BELOW STEEL LINTELS TABLE

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PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
GENERAL NOTES - SHEET 3
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
N/A	PRELIM	30019108 - 004	B

150 mm ON ORIGINAL
A1
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PAD FOOTING SCHEDULE

MARK	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)	REINFORCEMENT	COMMENTS
	<varies>	<varies>	400		
EX-PF1	2000	2000	500		EX. PAD FOOTING TO BE CONFIRMED ON SITE
EX-PF2	1500	1500	500		EX. PAD FOOTING TO BE CONFIRMED ON SITE
PF1	1800	1800	500	N16-250 BOTH WAYS TOP & BOTTOM	
PF2	1600	1600	500	N16-250 BOTH WAYS TOP & BOTTOM	
PF3	1400	1400	500	N16-250 BOTH WAYS TOP & BOTTOM	
PF4	800	800	500	N12-150 BOTH WAYS TOP & BOTTOM	

STRIP FOOTING SCHEDULE

MARK	DEPTH (mm)	WIDTH (mm)	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	LIGS	COMMENTS
ExSF	500	600				EX STRIP FOOTING TO BE CONFIRMED ON SITE
SF1	500	1200	N12-200	N12-200	R6-500 TIES	
SF2	500	500	N12-200	N12-200	R6-500 TIES	

STEEL FRAMING SCHEDULE

MARK	SIZE	COMMENTS
BR1	EA 100x100x10	
BR2	2/Z20024	
DH1	150PFC	
G1	C10019	GIRTS AT 1200 CTS
KB1	EA 50x50x5	
P1	Z20024	PURLINS AT 1200 CTS WITH 2 ROWS OF BRIDGING
P2	Z20019	PURLINS AT 1200 CTS WITH 2 ROWS OF BRIDGING
P3	Z15015	PURLINS AT 1200 CTS
RB1	460UB67.1	
RB2	410UB53.7	
RB3	360UB44.7	
RB4	150UB14	
TR1	250UB25.7	
WB1	EA 100x100x10	
WT1	250PFC	
WT2	150PFC	

STEEL COLUMN SCHEDULE

MARK	SIZE	COMMENTS
BOL.	219.1x8.2CHS	
C1	530UB92.4	
C2	310UB40.4	
C3	460UB67.1	
C4	200UB22.3	
C5	410UB59.7	
C6	180UB16.1	
DC1	150PFC	
EX-C1	700WB115	
EX-C2	460UB82.1	

PRECAST PANEL SCHEDULE

MARK	THICKNESS (mm)	REINFORCEMENT	COMMENTS
EX-VP1			
EX-VP2			
VP1	180		

PUSH WALL SCHEDULE

MARK	THICKNESS (mm)	REINFORCEMENT	COMMENTS
IW1	500	N20-200 BARS BOTH WAYS EACH FACE	
IW2	500	N28-150 BARS VERTICAL EACH FACE, N24-200 BARS HORIZONTAL EACH FACE	
IW3	400	N20-200 BARS BOTH WAYS EACH FACE	

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SCALES AT A1 SIZE DRAWING

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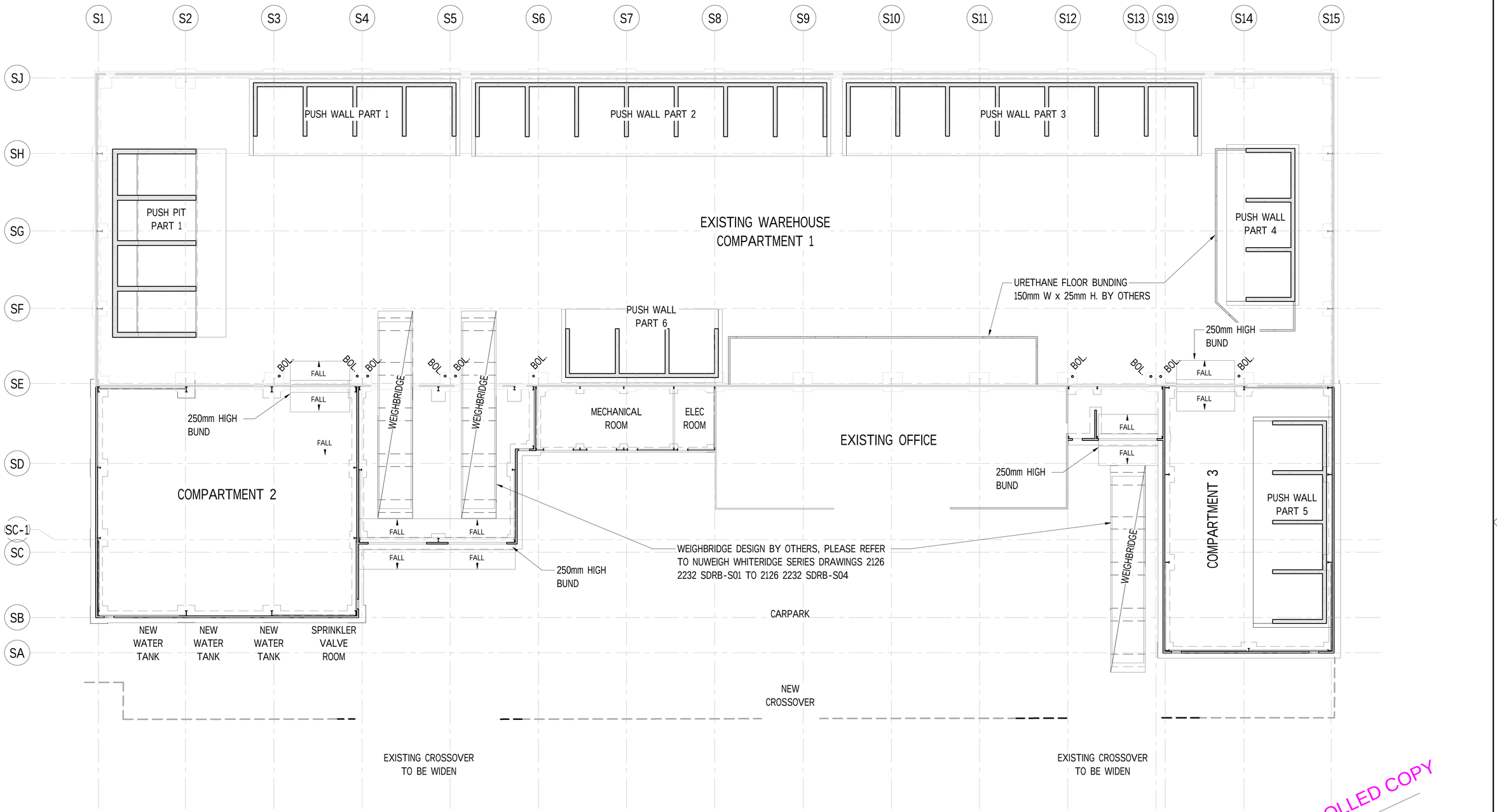
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PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
SCHEDULES
9 WHYALLA PLACE
PRESTONS, NSW

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N/A	PRELIM	30019108 - 005	B

150 mm ON ORIGINAL
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LEGEND:

NEW FENCE -

EXISTING FENCE -

GENERAL ARRANGEMENT
SCALE 1 : 200

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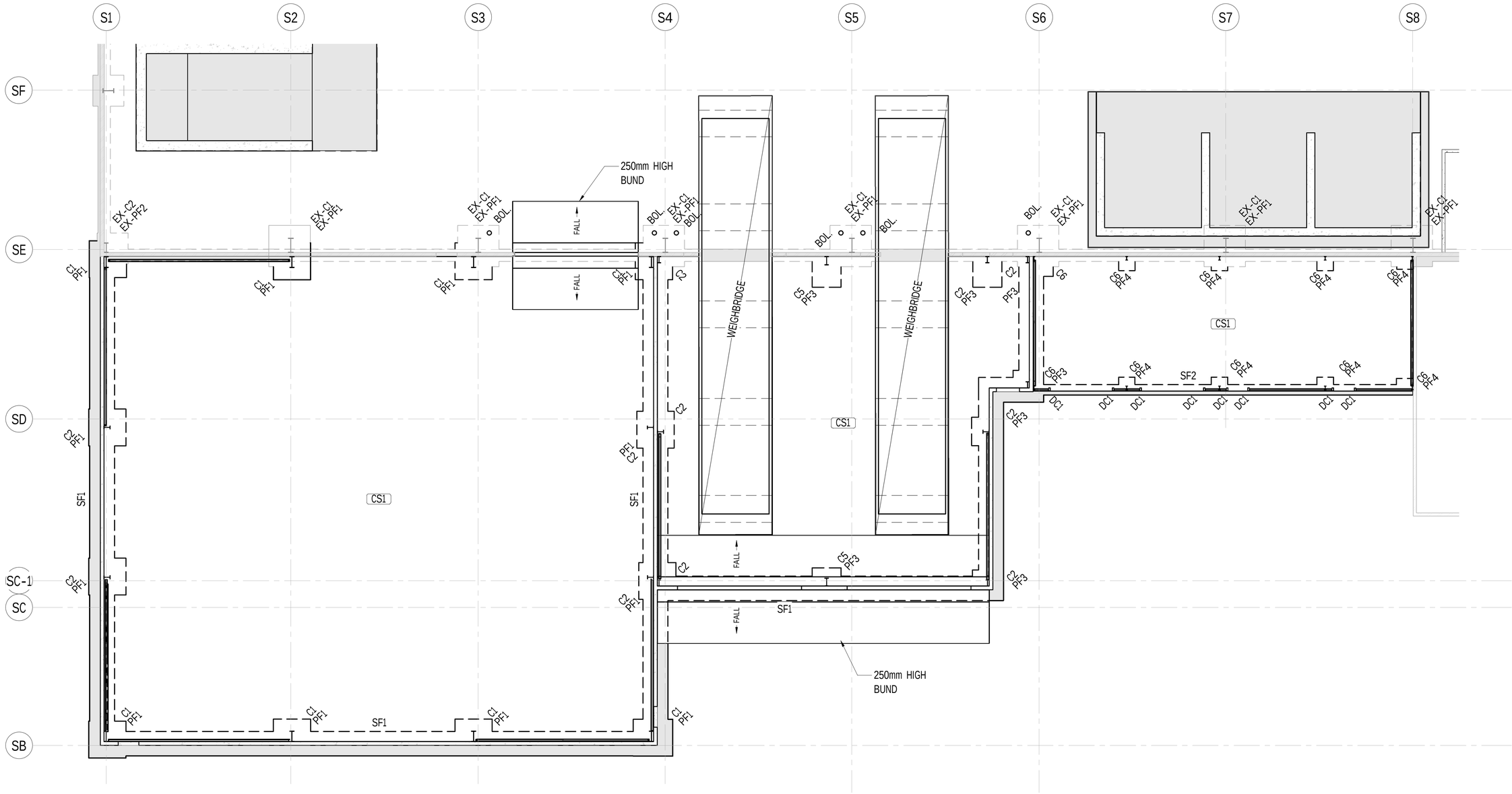
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PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
GENERAL ARRANGEMENT
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 200	PRELIM	30019108 - 010	B



COMPARTMENT 2 SLAB & FOOTINGS PLAN

SCALE 1 : 100

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DESIGNER

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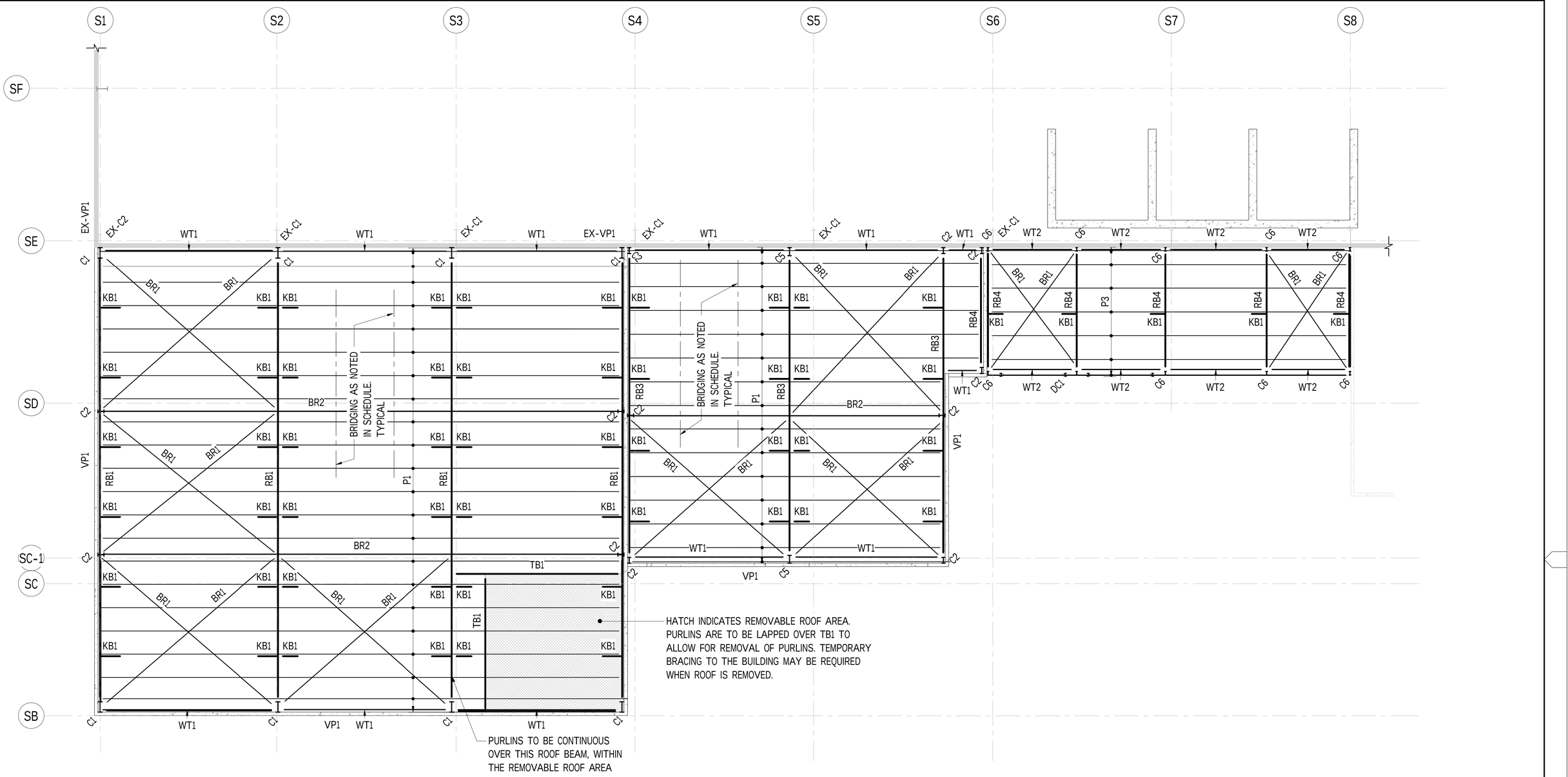
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PROJECT TITLE

PRESTONS WASTE TREATMENT FACILITY
COMPARTMENT 2 SLAB & FOOTINGS PLAN
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 100	PRELIM	30019108 - 020	B



COMPARTMENT 2 FRAMING PLAN

SCALE 1 : 100

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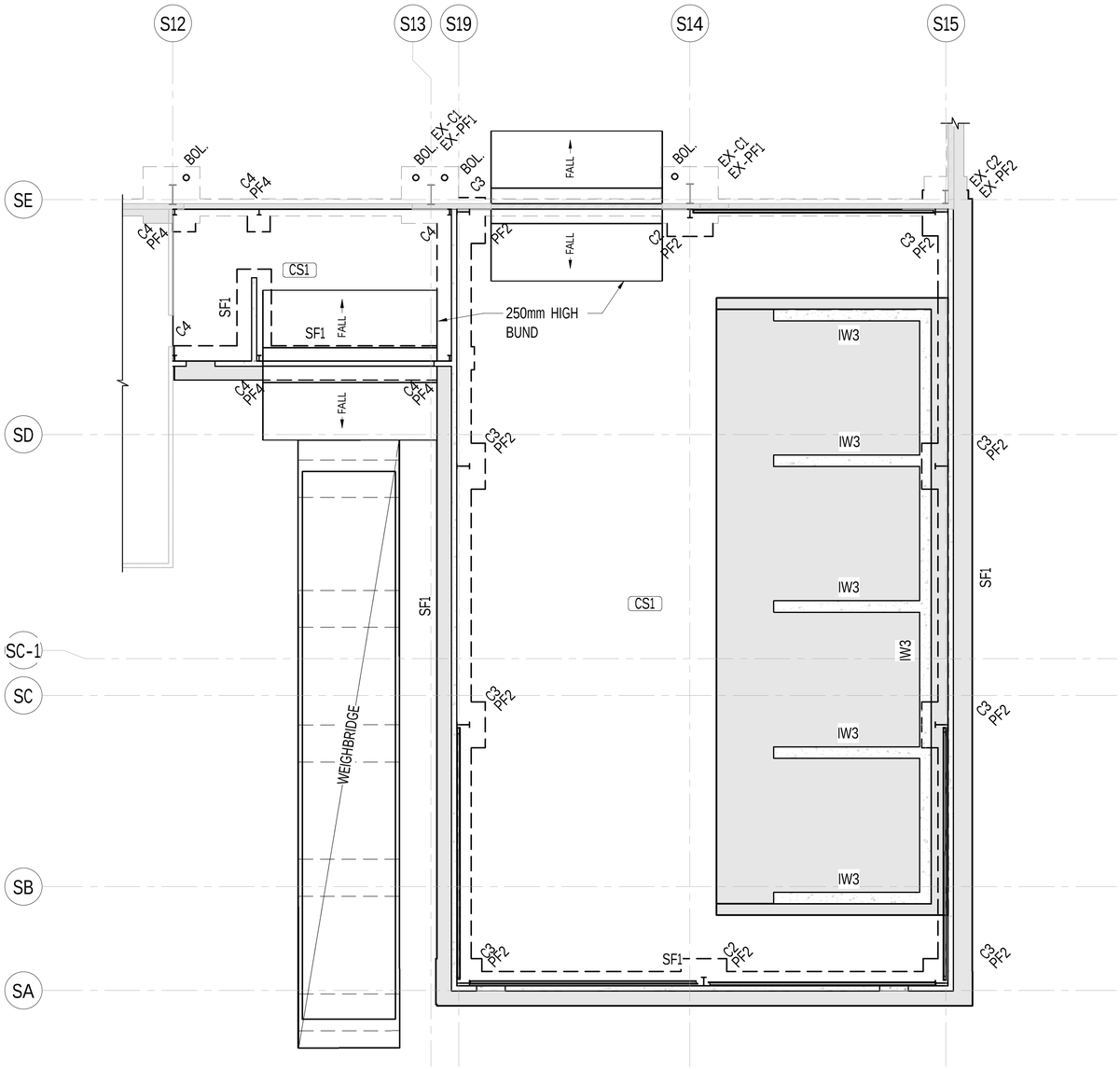
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PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
COMPARTMENT 2 FRAMING PLAN
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 100	PRELIM	30019108 - 021	B

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COMPARTMENT 3 SLAB & FOOTINGS PLAN
SCALE 1 : 100

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DESIGNER

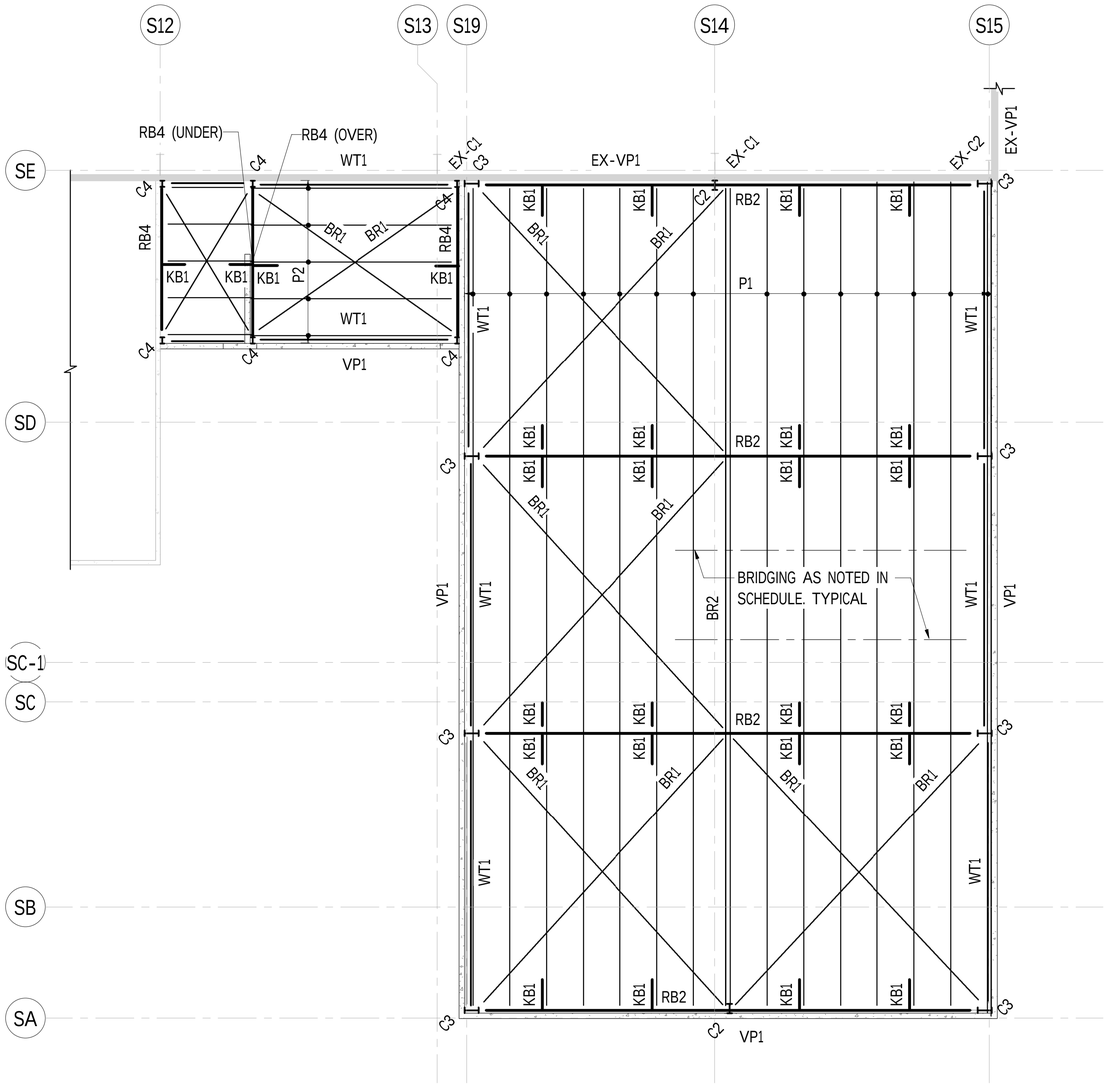
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PRESTONS WASTE TREATMENT FACILITY
COMPARTMENT 3 SLAB & FOOTINGS PLAN
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
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COMPARTMENT 3 FRAMING PLAN
SCALE 1 : 100

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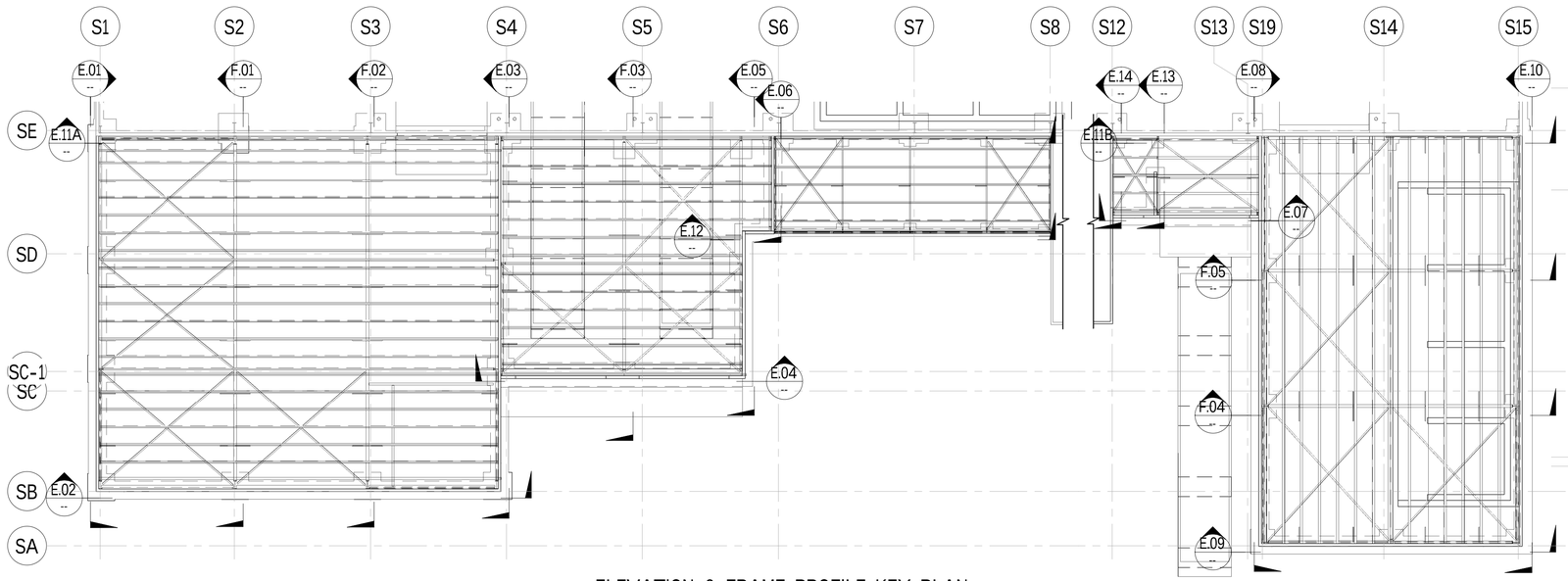
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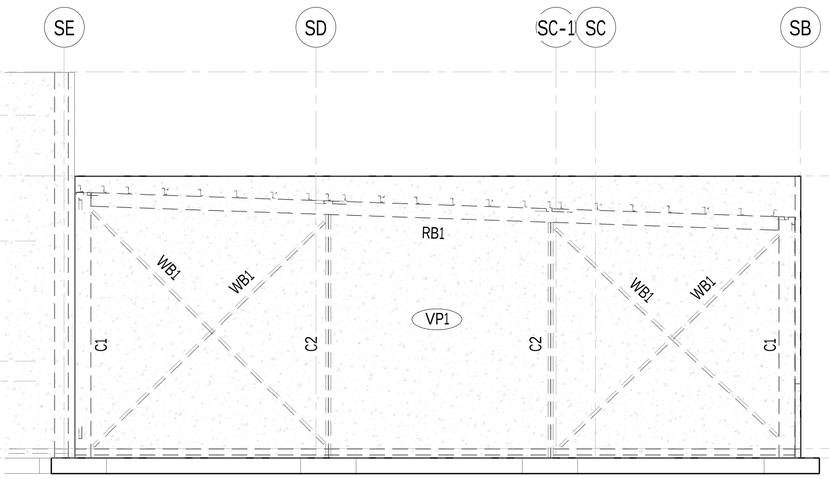
PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
COMPARTMENT 3 FRAMING PLAN
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
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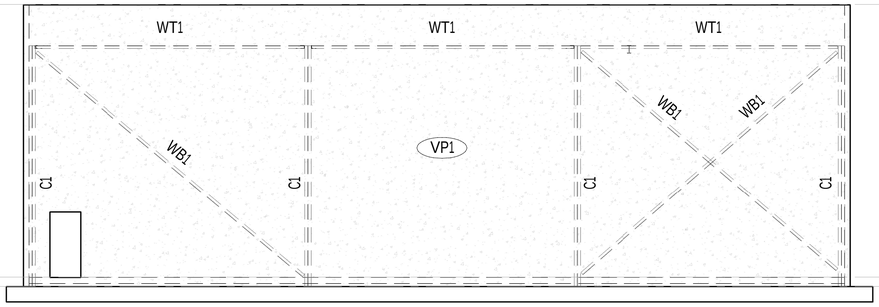
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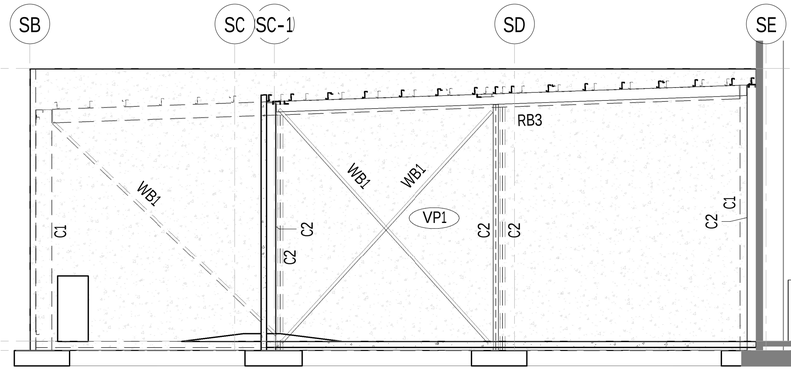
ELEVATION & FRAME PROFILE KEY PLAN
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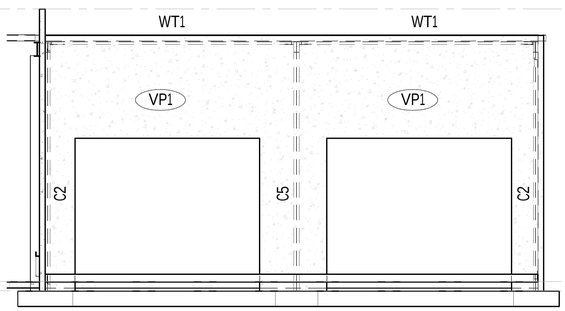
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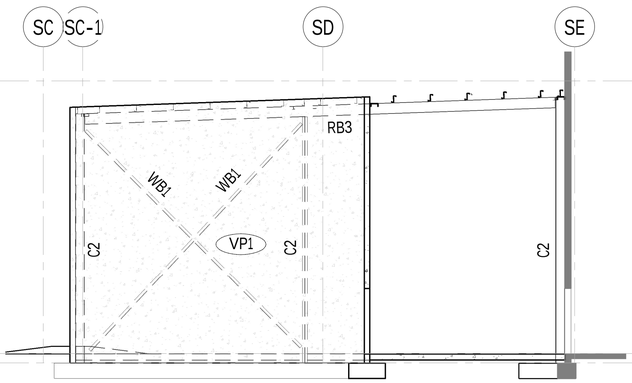
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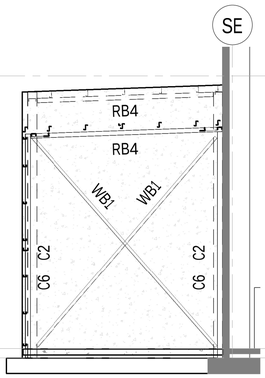
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SCALE 1 : 100



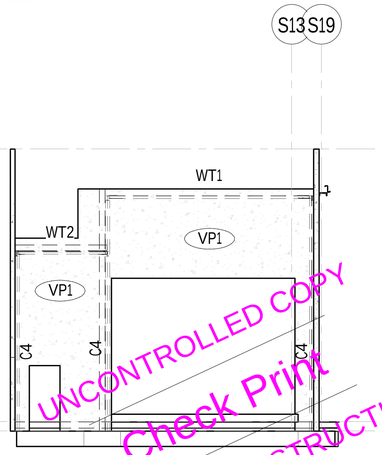
ELEVATION E.04
SCALE 1 : 100



ELEVATION E.05
SCALE 1 : 100



ELEVATION E.06
SCALE 1 : 100



ELEVATION E.07
SCALE 1 : 100

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REVIT MODEL NAME					PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

DESIGNER
SMEC
Member of the Surbana Jurong Group
SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
ADELAIDE SA. 5000
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30019108

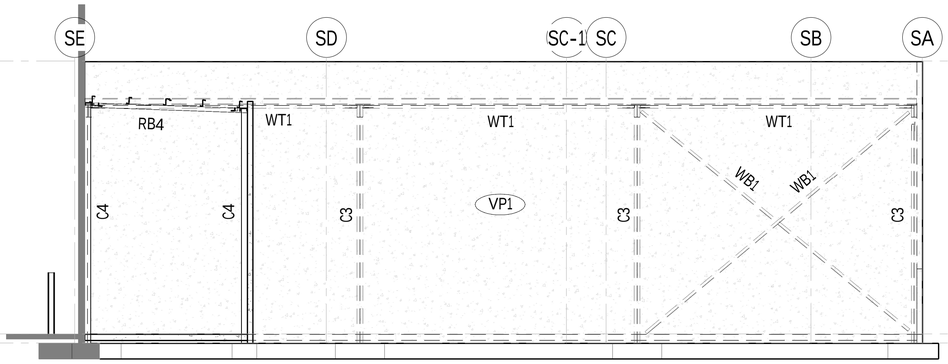
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DISCIPLINE	PRELIM INITIAL	FINAL DATE
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BACKDRAFTED/CORRECTED		
CONFIRMED		

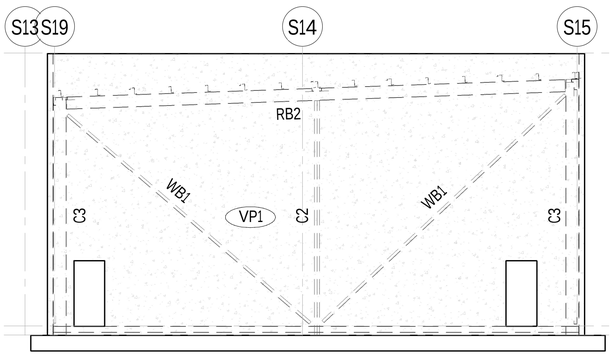
PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
ELEVATIONS & PROFILES - SHEET 1
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
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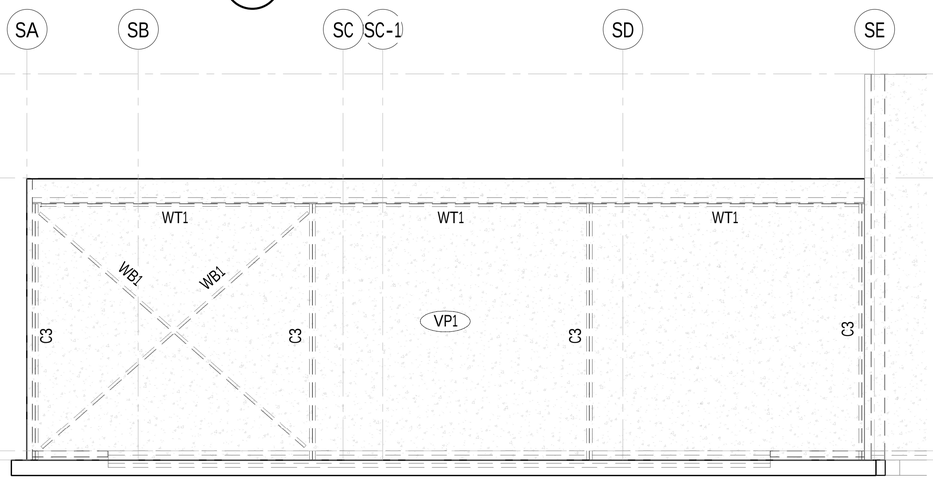
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A1
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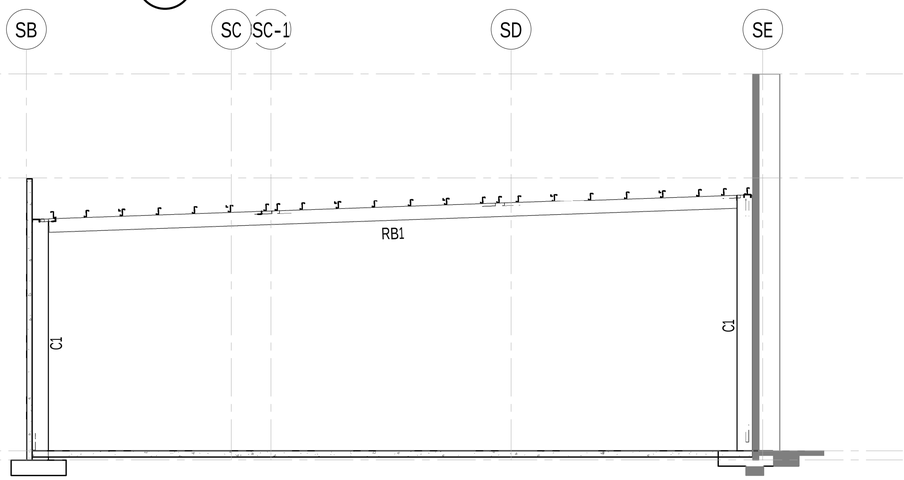
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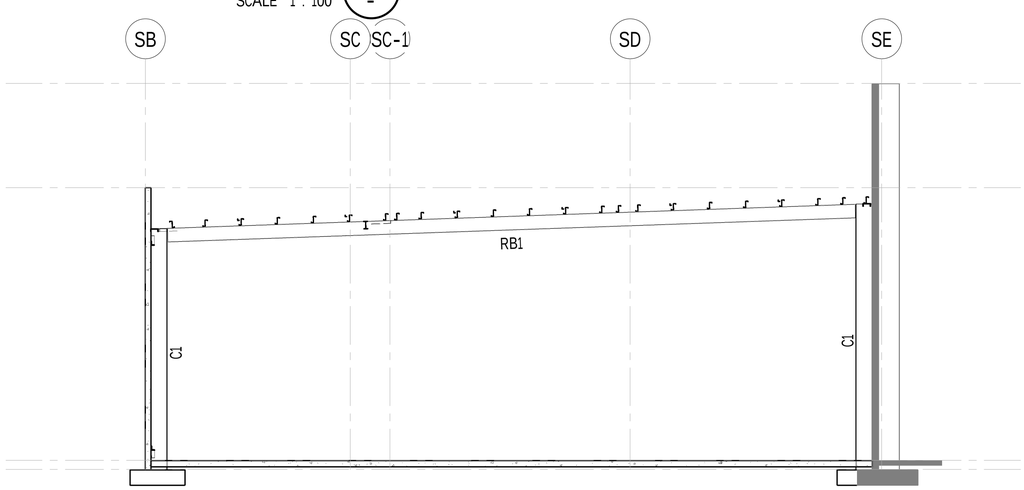
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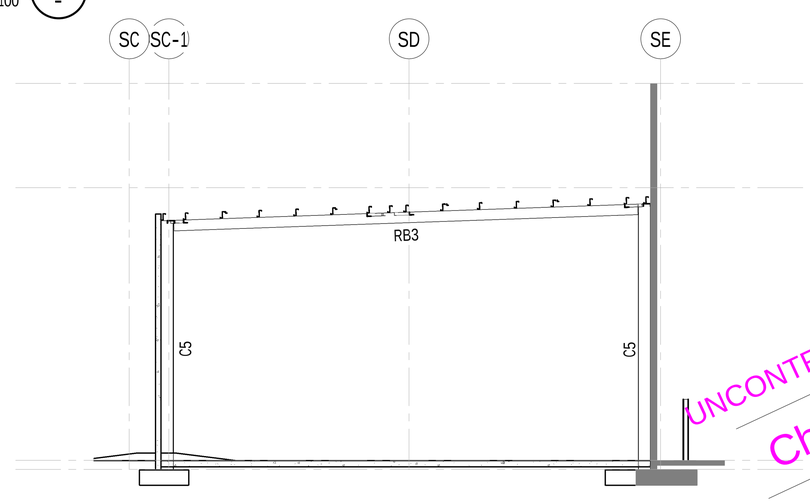
ELEVATION E.10
SCALE 1 : 100



ELEVATION F.01
SCALE 1 : 100



ELEVATION F.02
SCALE 1 : 100



ELEVATION F.03
SCALE 1 : 100

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REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

DESIGNER
SMEC
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SMEC AUSTRALIA PTY LTD
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LEVEL 4 19 GRENFELL STREET
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30019108

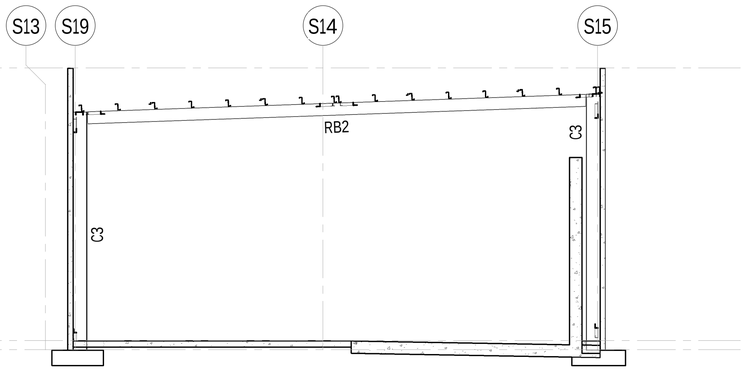
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DISCIPLINE				
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CONFIRMED				

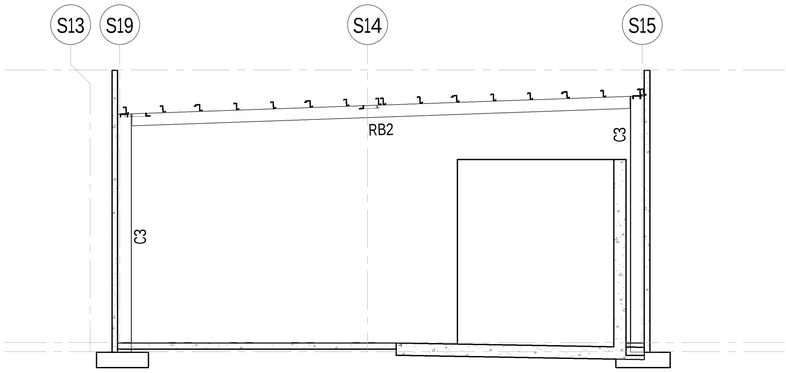
PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
ELEVATIONS & PROFILES - SHEET 2
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 100	PRELIM	30019108 - 031	B

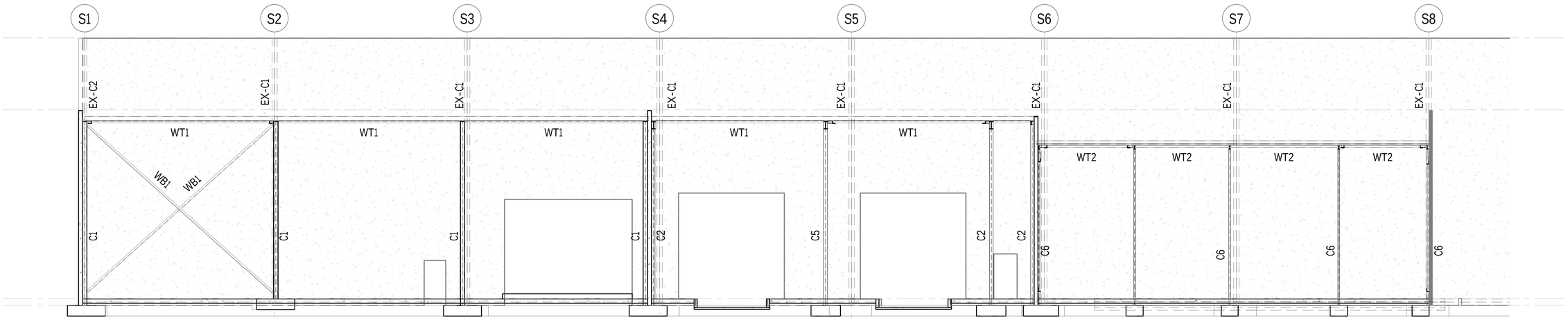
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A1
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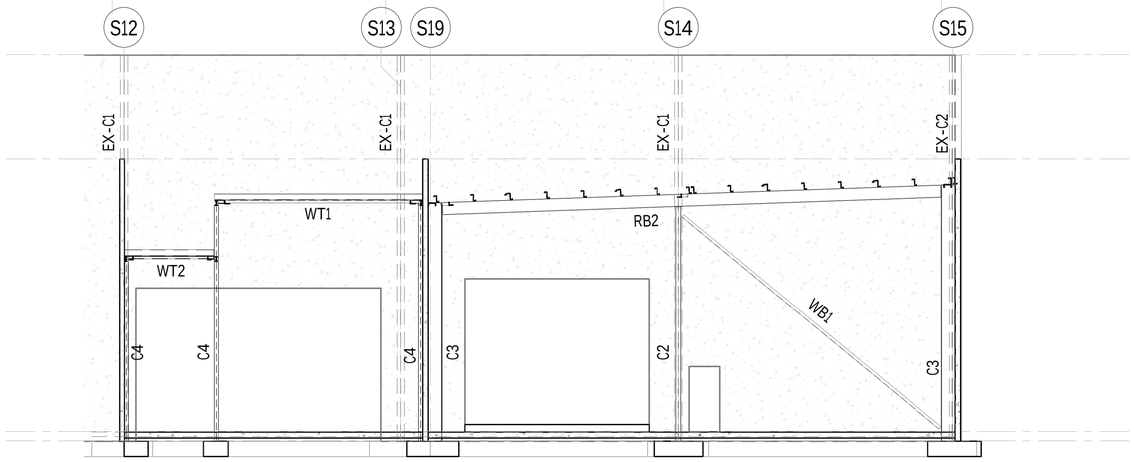
ELEVATION F.04
SCALE 1 : 100



ELEVATION F.05
SCALE 1 : 100



ELEVATION E.11A
SCALE 1 : 100



ELEVATION E.11B
SCALE 1 : 100

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REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

DESIGNER
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LEVEL 4 19 GRENFELL STREET
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30019108

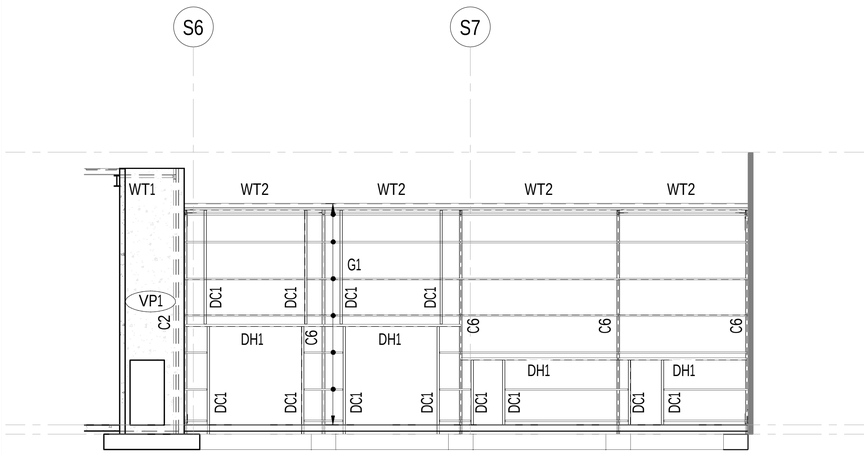
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DISCIPLINE	PRELIM INITIAL	FINAL DATE
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BACKDRAFTED/CORRECTED		
CONFIRMED		

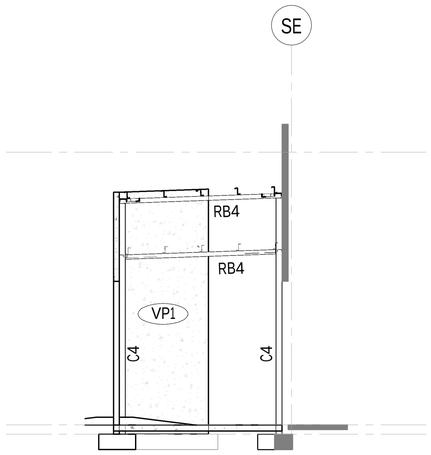
PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
ELEVATIONS & PROFILES - SHEET 3
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
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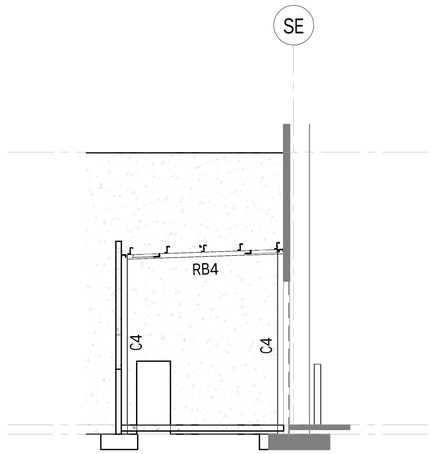
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A1
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ELEVATION E.12
SCALE 1 : 100



ELEVATION E.13
SCALE 1 : 100



ELEVATION E.14
SCALE 1 : 100

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REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
		REVISION IN PROGRESS			DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

SCALES AT A1 SIZE DRAWING

DESIGNER

SMEC
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SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
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PH 08 8225 9800 FAX 08 8225 9850
30019108

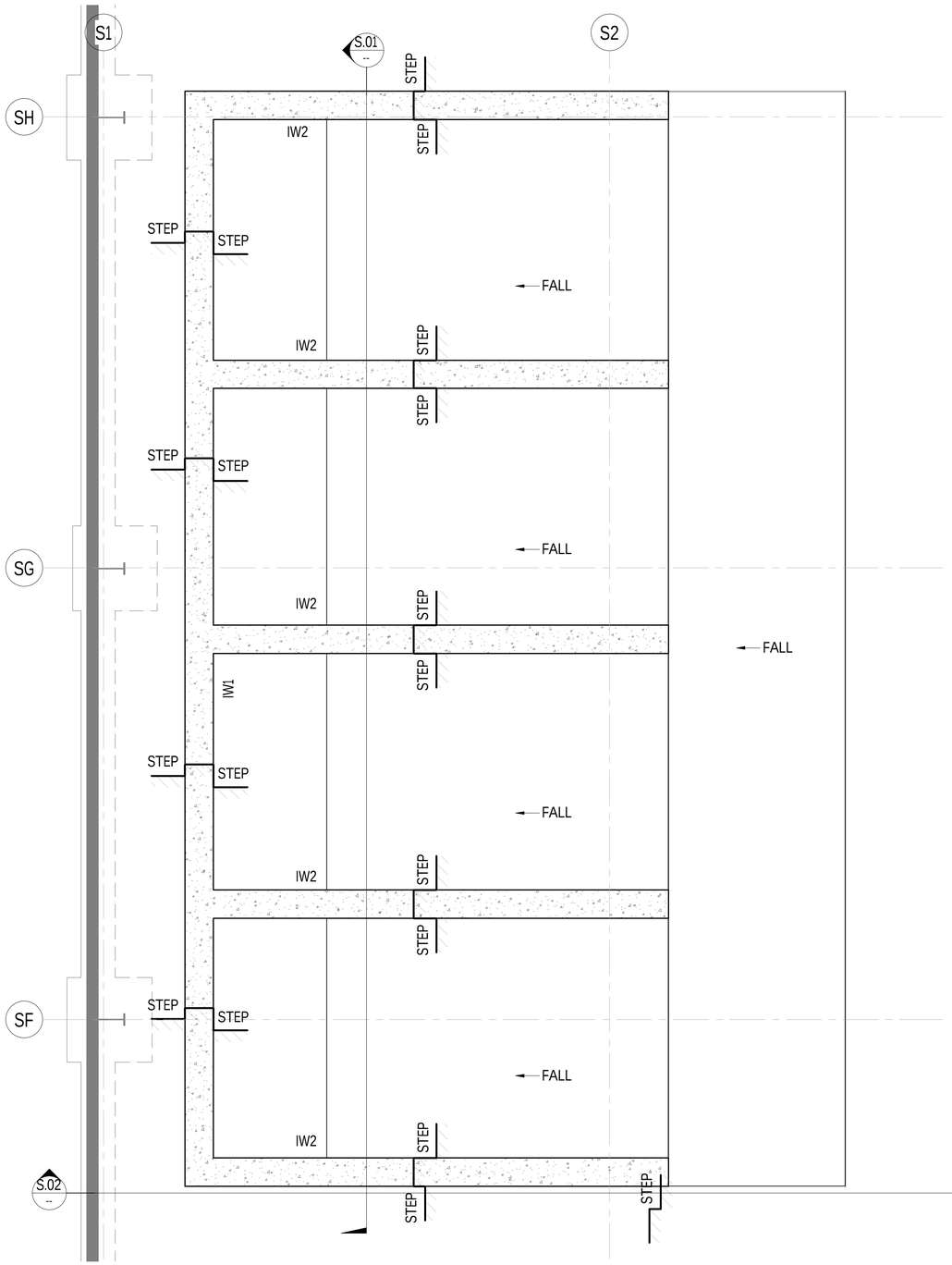
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BACKDRAFTED/CORRECTED				
CONFIRMED				

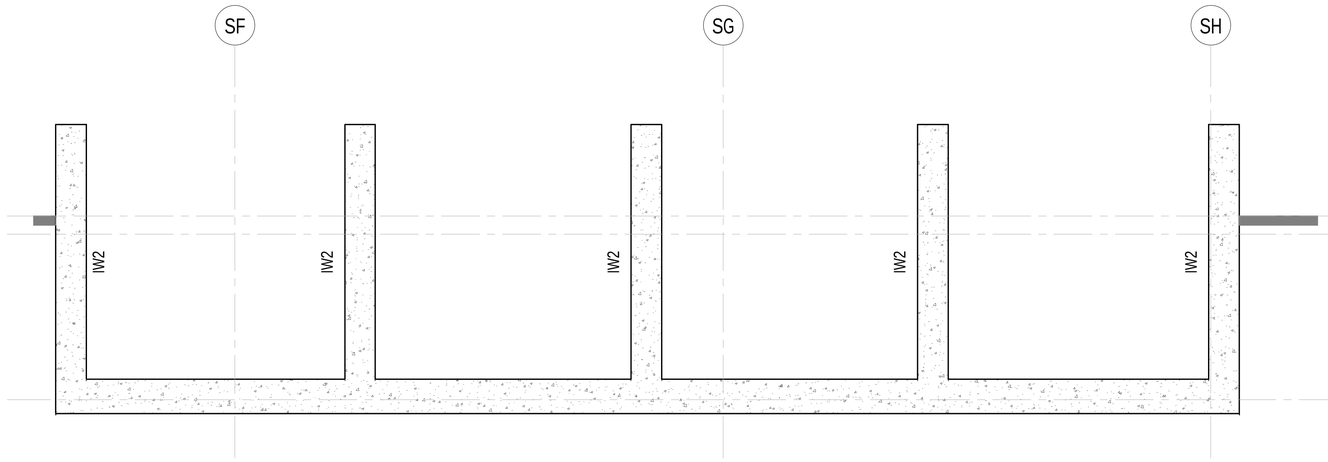
PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
ELEVATIONS & PROFILES - SHEET 4
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 100	PRELIM	30019108 - 032	B

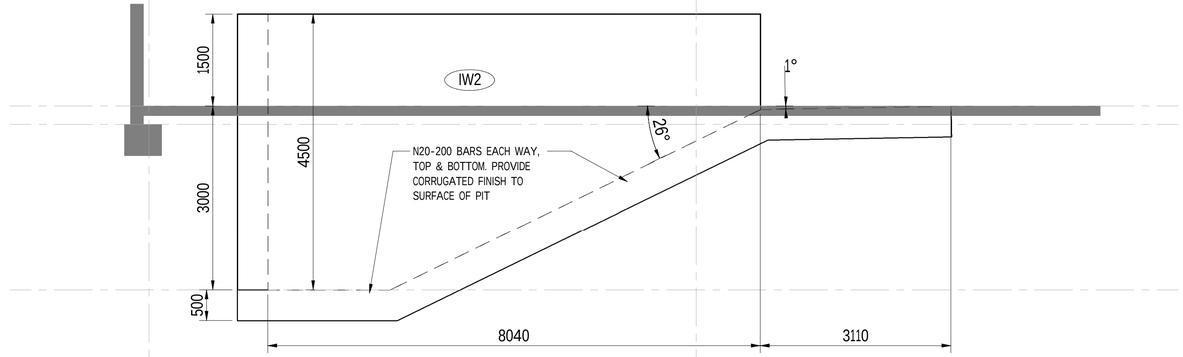
150 mm ON ORIGINAL
A1
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PUSH PIT LAYOUT PLAN
SCALE 1 : 50



SECTION S.01 (-)
SCALE 1 : 50



SECTION S.02 (-)
SCALE 1 : 50

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150 mm ON ORIGINAL
A1

REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

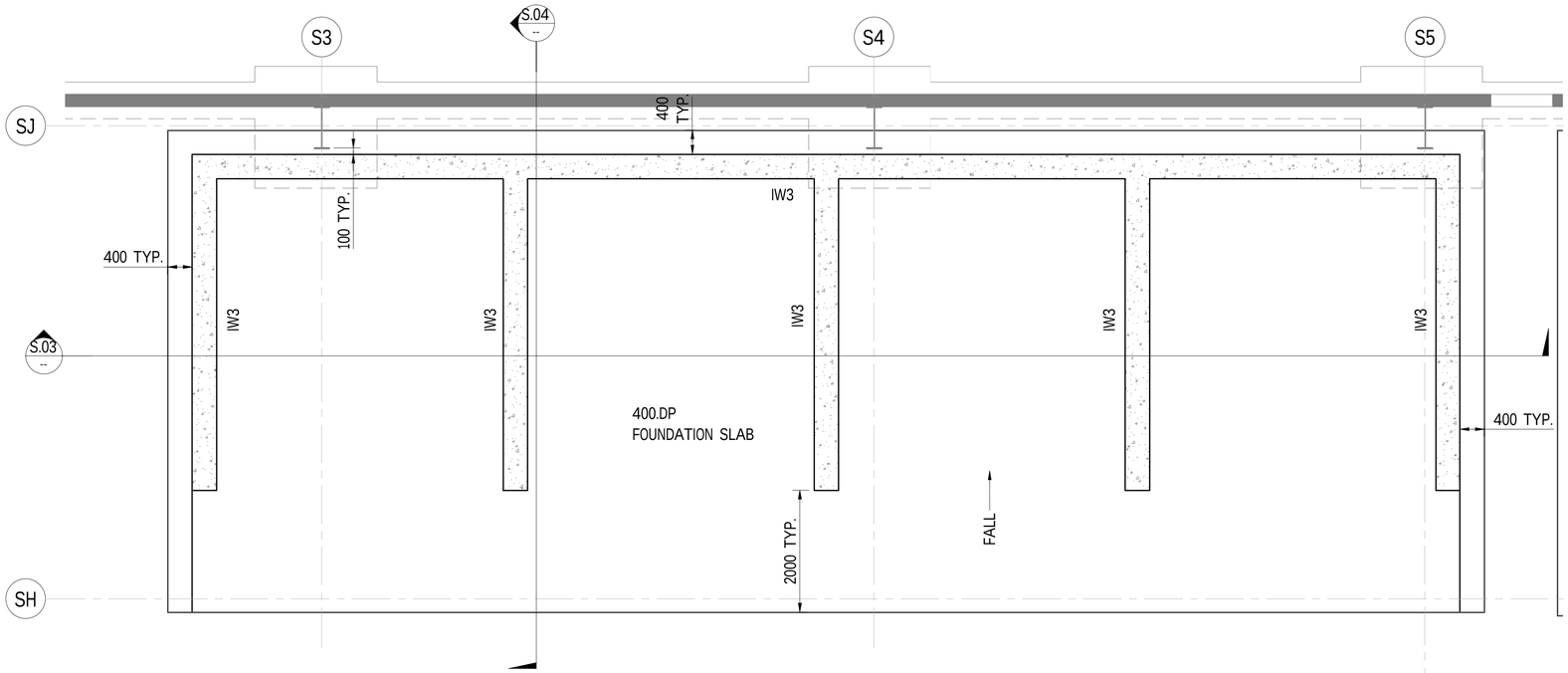
DESIGNER
SMEC
Member of the Surbana Jurong Group
SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
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30019108

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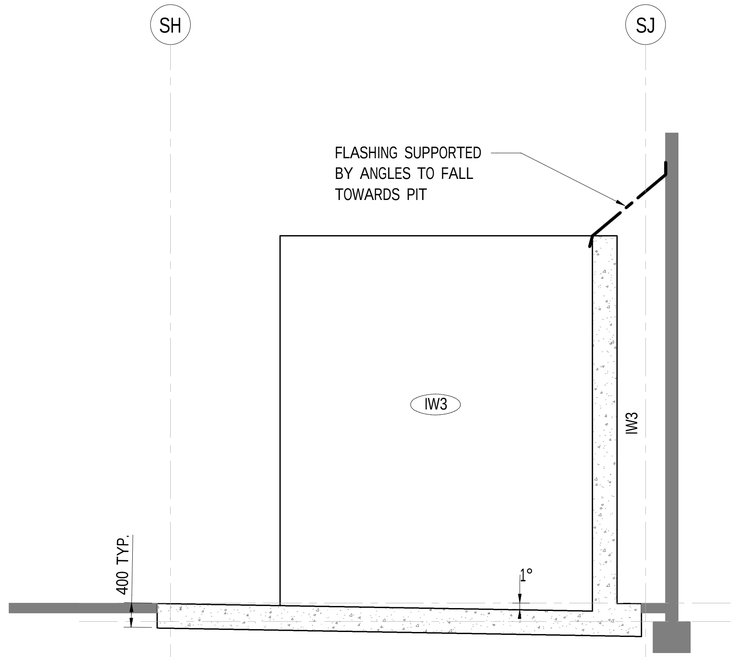
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DISCIPLINE				
BACKDRAFTED/CORRECTED				
CONFIRMED				

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
PUSH PIT LAYOUT
9 WHYALLA PLACE
PRESTONS, NSW

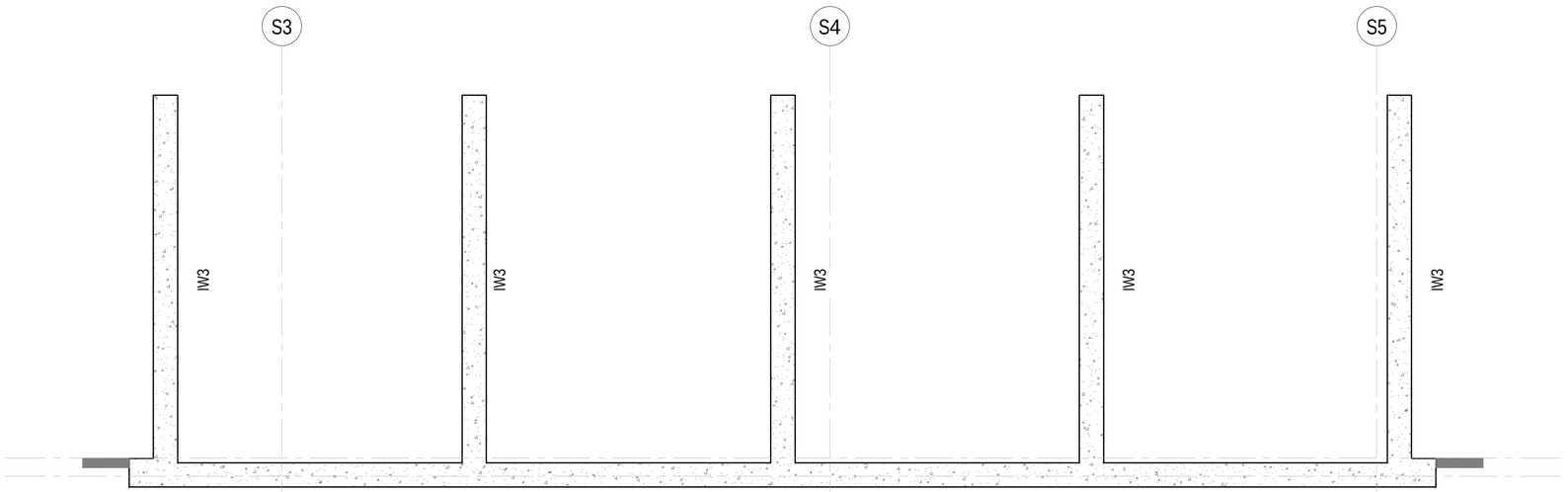
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 50	PRELIM	30019108 - 040	B



PUSH WALL LAYOUT PLAN - PA1
SCALE 1 : 50



SECTION S.04
SCALE 1 : 50



SECTION S.03
SCALE 1 : 50

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REVIT MODEL NAME					PLOT DATE	
	REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
	A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
	B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
			REVISION IN PROGRESS			DESIGNER	B.PACKHAM
						DESIGN CHECK	W.V.METZINGER
						PROJECT MANAGER	W.V.METZINGER
						PROJECT DIRECTOR	W.V.METZINGER

SCALES AT A1 SIZE DRAWING

DESIGNER
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LEVEL 4 19 GRENFELL STREET
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PH 08 8225 9800 FAX 08 8225 9850
30019108

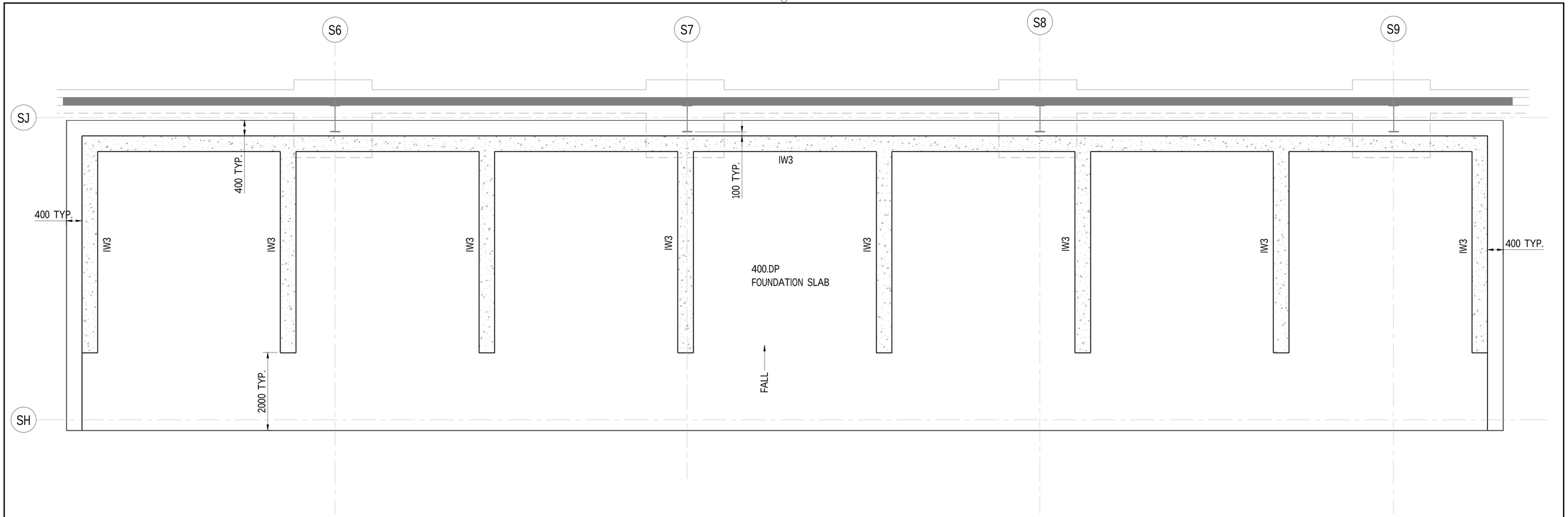
CHECK PRINT

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DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
PUSH WALL LAYOUT - PA1
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 50	PRELIM	30019108 - 041	B

150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



PUSH WALL LAYOUT PLAN - PA2
SCALE 1 : 50

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REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

DESIGNER

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LEVEL 4 19 GRENFELL STREET
ADELAIDE SA. 5000
PH 08 8225 9800 FAX 08 8225 9850
30019108

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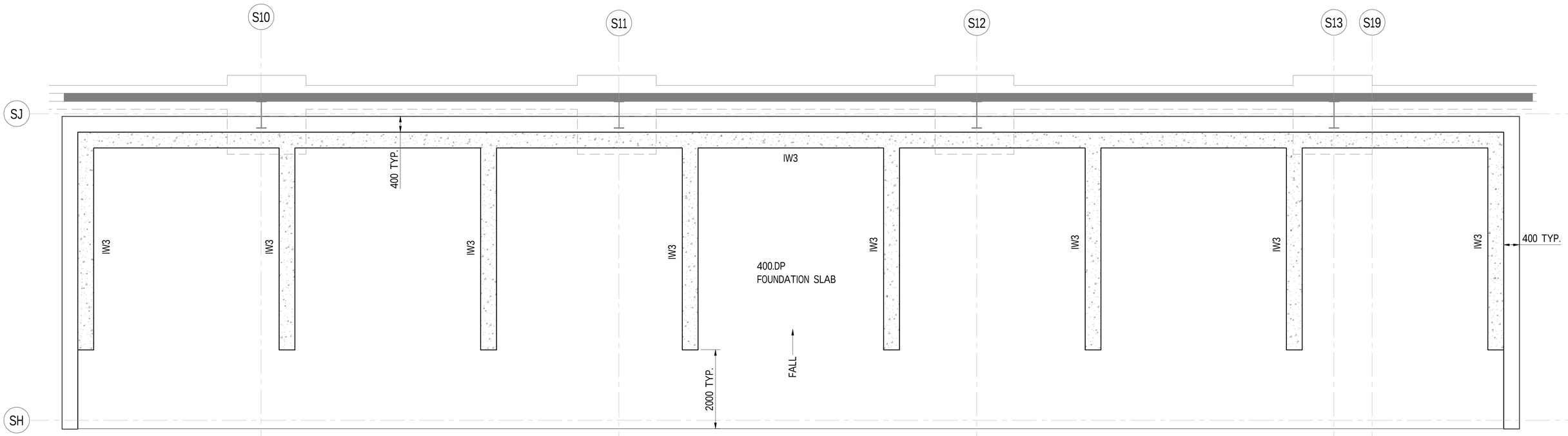
CHECK PRINT

	PRELIM. INITIAL	PRELIM. DATE	FINAL INITIAL	FINAL DATE
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DISCIPLINE				
DISCIPLINE				
DISCIPLINE				
BACKDRAFTED/CORRECTED				
CONFIRMED				

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
PUSH WALL LAYOUT - PA2
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 50	PRELIM	30019108 - 042	B

150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



PUSH WALL LAYOUT PLAN - PA3

SCALE 1 : 50

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REVIT MODEL NAME

PLOT DATE

NOT FOR CONSTRUCTION

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

DESIGNER
SMEC
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SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
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PH 08 8225 9800 FAX 08 8225 9850
30019108

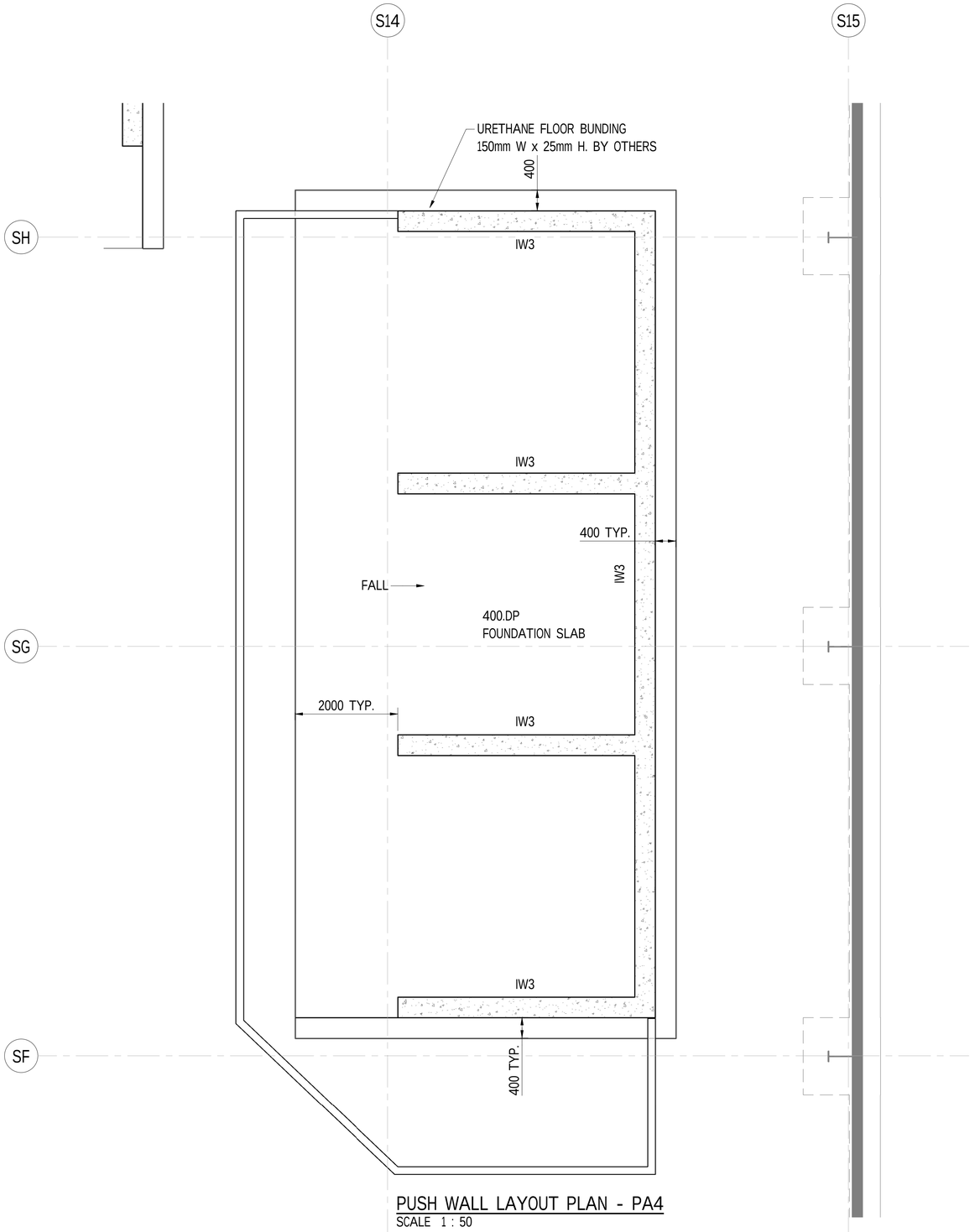
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	PRELIM. INITIAL	PRELIM. DATE	FINAL INITIAL	FINAL DATE
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DISCIPLINE				
BACKDRAFTED/CORRECTED				
CONFIRMED				

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
PUSH WALL LAYOUT - PA3
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 50	PRELIM	30019108 - 043	B

150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



PUSH WALL LAYOUT PLAN - PA4

SCALE 1 : 50

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REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

DESIGNER
SMEC
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SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
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PH 08 8225 9800 FAX 08 8225 9850
30019108

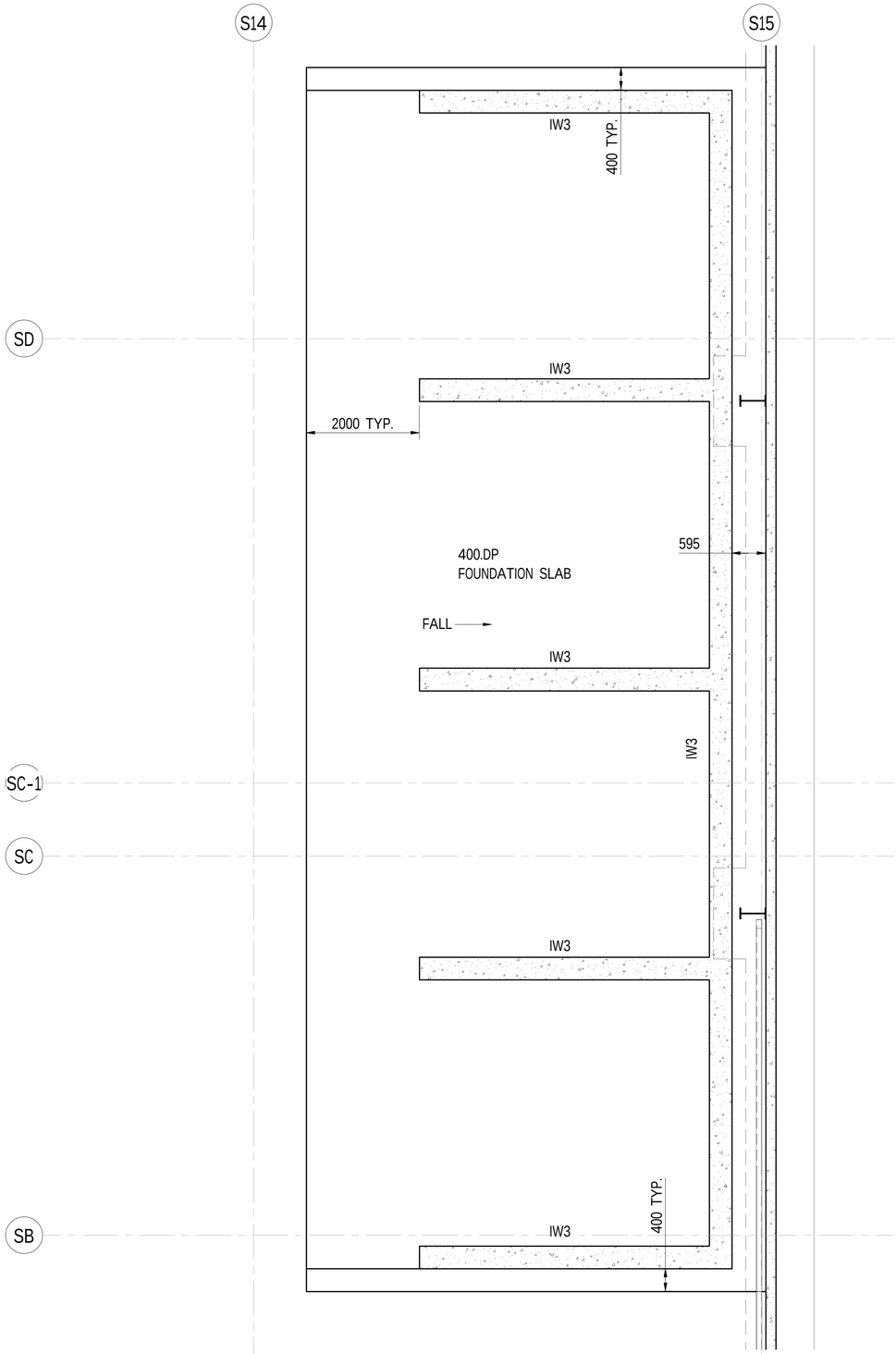
CHECK PRINT

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DISCIPLINE				
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DISCIPLINE				
BACKDRAFTED/CORRECTED				
CONFIRMED				

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
PUSH WALL LAYOUT - PA4
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 50	PRELIM	30019108 - 044	B

150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



PUSH WALL LAYOUT PLAN - PA5
SCALE 1 : 50

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REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

DESIGNER
SMEC
Member of the Surbana Jurong Group
SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
ADELAIDE SA. 5000
PH 08 8225 9800 FAX 08 8225 9850
30019108

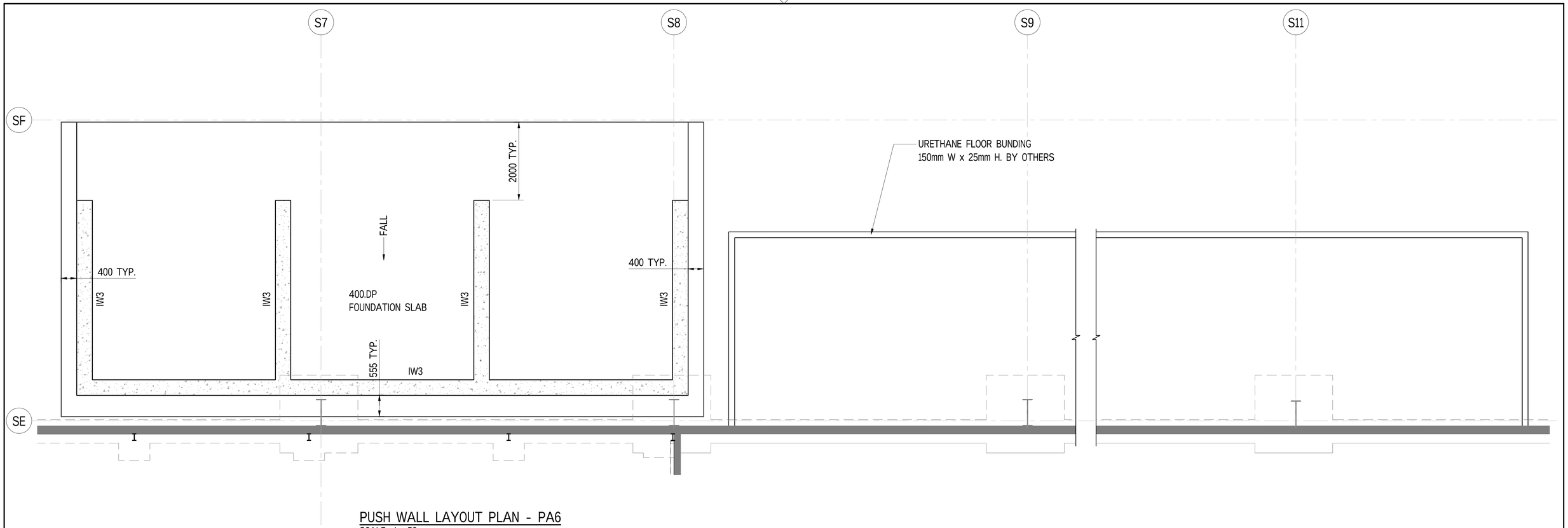
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	PRELIM. INITIAL	FINAL DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
PUSH WALL LAYOUT - PA5
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 50	PRELIM	30019108 - 045	B

150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



PUSH WALL LAYOUT PLAN - PA6

SCALE 1 : 50

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REVIT MODEL NAME	PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	15/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
B	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

REVISION IN PROGRESS

SCALES AT A1 SIZE DRAWING

DESIGNER
SMEC
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SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
ADELAIDE SA. 5000
PH 08 8225 9800 FAX 08 8225 9850
30019108

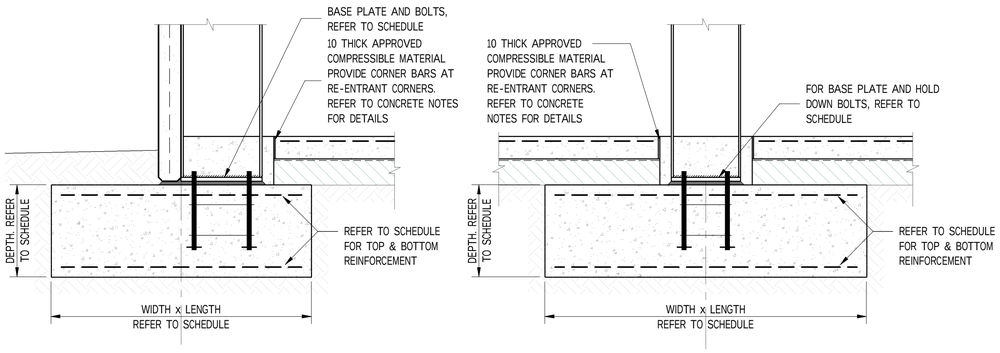
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	PRELIM.	FINAL
	INITIAL	DATE
DISCIPLINE		
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DISCIPLINE		
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BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
PUSH WALL LAYOUT - PA5
9 WHYALLA PLACE
PRESTONS, NSW

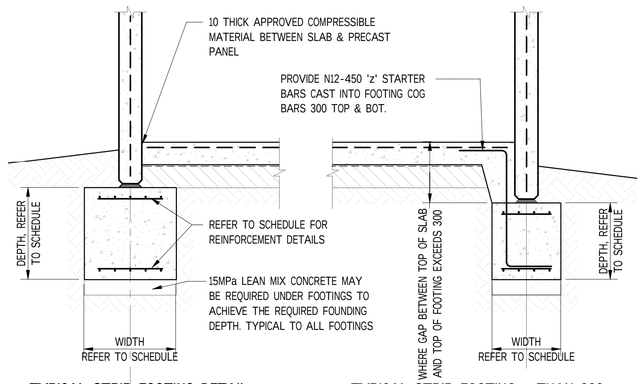
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 50	PRELIM	30019108 - 045	B

150 mm ON ORIGINAL
A1
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TYPICAL PAD FOOTING TO UC/UB CONNECTION DETAILS

SCALE 1 : 20

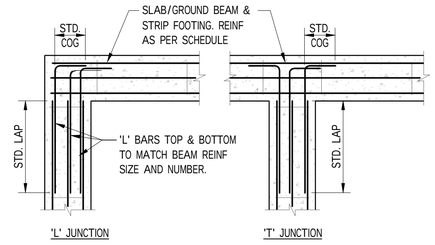


TYPICAL STRIP FOOTING DETAIL

TYPICAL STRIP FOOTING < THAN 300 FROM TOP OF SLAB TO TOP OF DETAIL

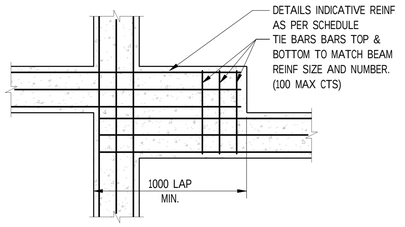
TYPICAL STRIP FOOTING DETAILS

SCALE 1 : 20



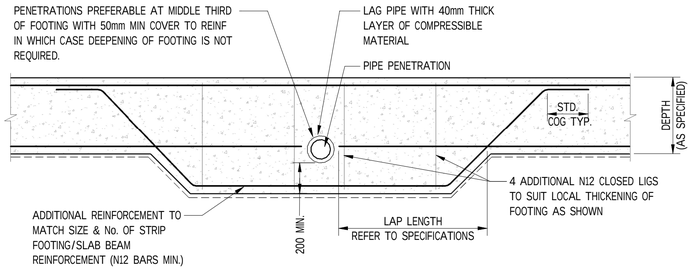
TYPICALSTRIP FOOTING INTERSECTION REINFORCEMENT DETAIL

SCALE 1 : 20



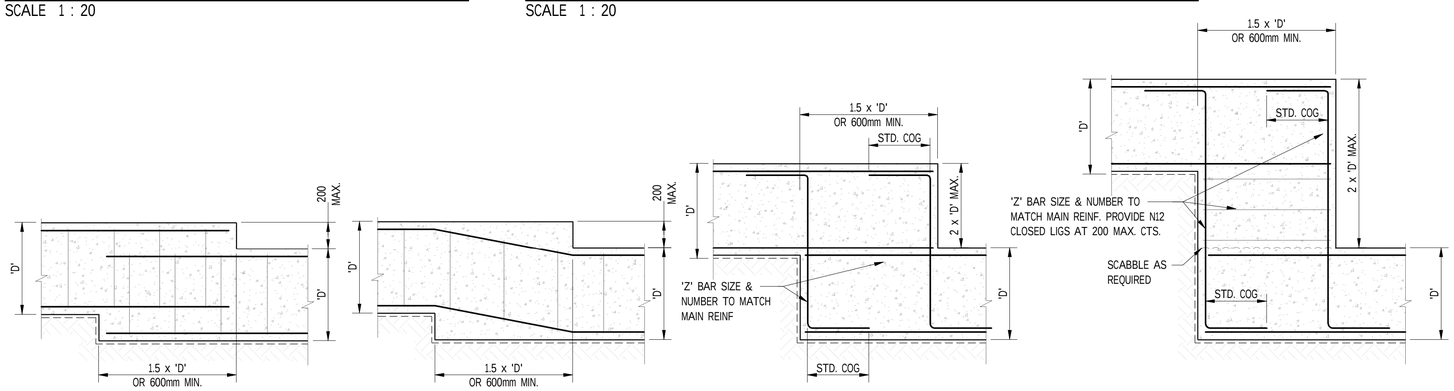
TYPICAL SLAB BEAM/STRIP FOOTING LAP DETAIL

SCALE 1 : 20



TYPICAL SLAB BEAM/STRIP FOOTING SERVICE PENETRATION ELEVATION

SCALE 1 : 20



STEP < 200 - OPTION 1

STEP < 200 - OPTION 2

STEP > 200 BUT < 2D

STEP < 1500 BUT > 2D

TYPICAL STEP IN FOOTING BEAM

SCALE 1 : 20

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REVIT MODEL NAME	PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
		REVISION IN PROGRESS		WvM	DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

SCALES AT A1 SIZE DRAWING

SCALE 1:20 0.2 0 0.2 0.4 0.6 0.8 1.0

SCALE 1:10 0.1 0 0.1 0.2 0.3 0.4 0.5

DESIGNER
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© ABN 47 065 475 149
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30019108

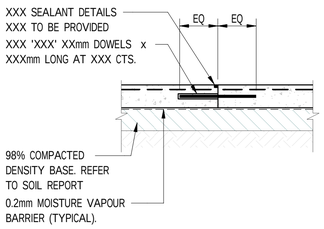
CLIENT CHECK PRINT

DISCIPLINE	PRELIM INITIAL	FINAL DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

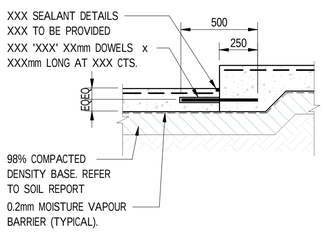
PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
FOOTING SECTIONS & DETAILS
9 WHYALLA PLACE
PRESTONS, NSW

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 10	PRELIM	30019108 - 050	A

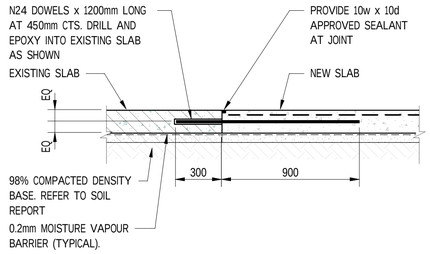
150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



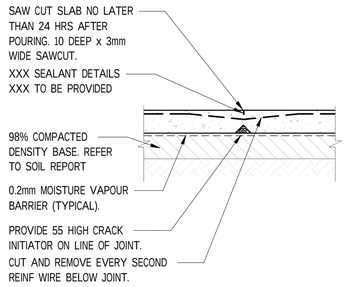
DJ - DOWELLED JOINT
SCALE 1 : 20



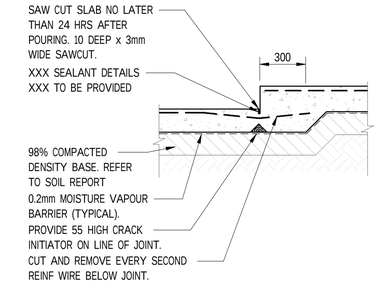
DJ - DOWELLED JOINT AT STEP
SCALE 1 : 20



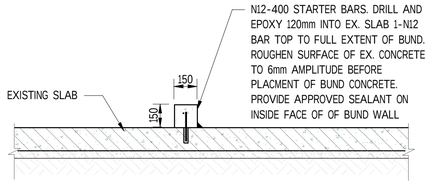
NEW TO OLD SLAB JOINT
SCALE 1 : 20



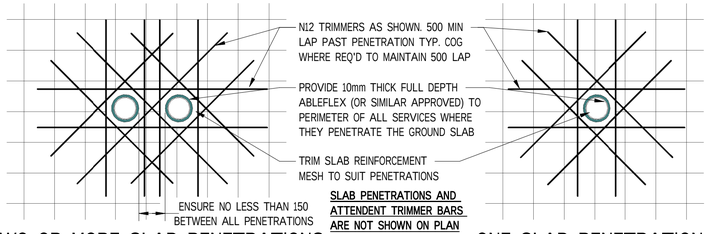
SCJ - TYPICAL SAW CUT JOINT
SCALE 1 : 20



SCJ - TYPICAL SAW CUT JOINT AT STEP
SCALE 1 : 20



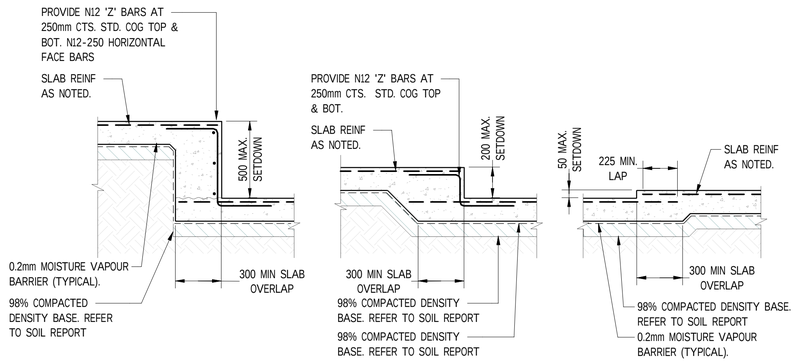
TYPICAL CONCRETE BUND DETAIL
SCALE 1 : 20



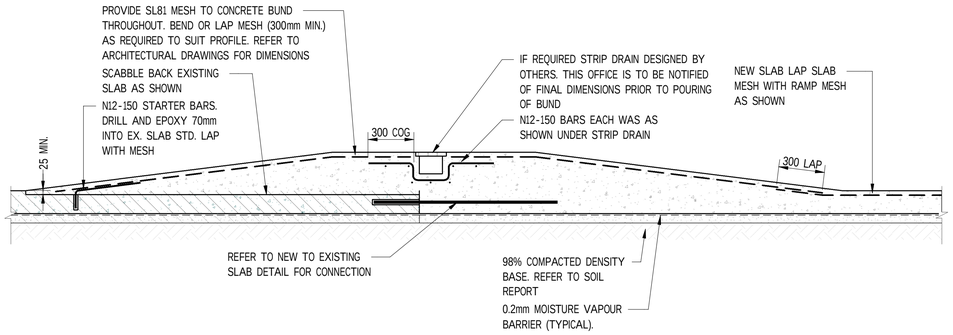
TWO OR MORE SLAB PENETRATIONS

ONE SLAB PENETRATION

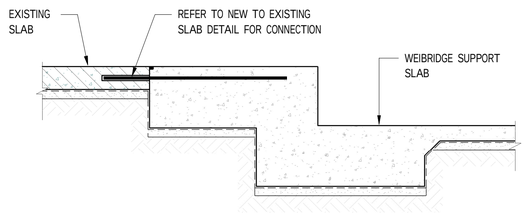
TYPICAL SLAB ON GROUND PENETRATION DETAIL
SCALE 1 : 20



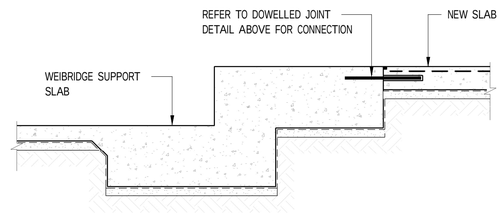
TYPICAL SLAB SETDOWN DETAILS
SCALE 1 : 20



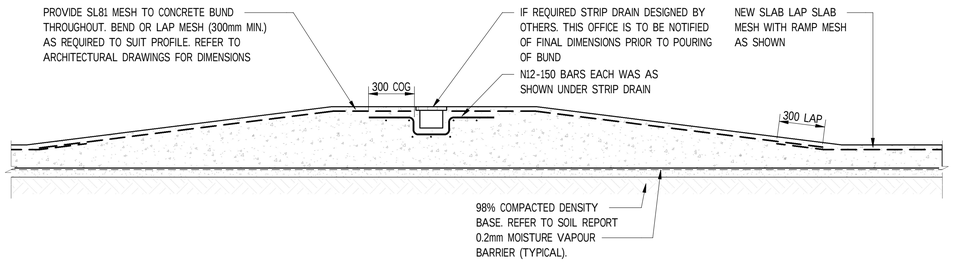
TYPICAL RAMP BUNDING NEW TO OLD DETAIL
SCALE 1 : 20



TYPICAL WEIGHBRIDGE NEW TO OLD DETAIL
SCALE 1 : 20



TYPICAL WEIGHBRIDGE SLAB JOINT DETAIL
SCALE 1 : 20



TYPICAL RAMP BUNDING DETAIL
SCALE 1 : 20

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REVIT MODEL NAME	PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	31/08/23	ISSUED FOR INFORMATION		WVM	DRAFTER	H.ALI
		REVISION IN PROGRESS			DRAFTING CHECK	D.ADKINS
					DESIGNER	B.PACKHAM
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

SCALES AT A1 SIZE DRAWING

DESIGNER
SMEC
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SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
ADELAIDE SA. 5000
PH 08 8225 9800 FAX 08 8225 9850
30019108

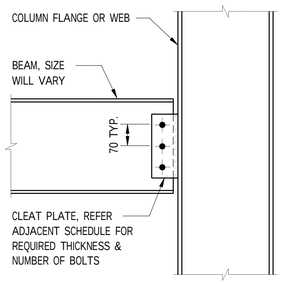
CHECK PRINT	PRELIM.	FINAL
	INITIAL	DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
SLAB SECTIONS & DETAILS
9 WHYALLA PLACE
PRESTONS, NSW

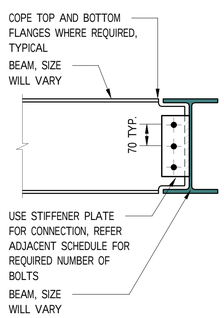
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
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150 mm ON ORIGINAL
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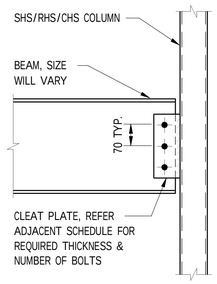
TYPICAL ROOF BEAM CLEAT CONNECTION SCHEDULE			
BEAM SIZE	CLEAT (mm)	WELD	No. OF BOLTS
150 UC, 150 UB, 180 UB, 200 UC, 200 UB, 250 UC, 250 UB, 150 PFC 180 PFC, 200 PFC, 250 PFC	10	6CFW	2-M20 8.8/S
310 UB, 360 UB, 300 PFC, 380 PFC	10	6CFW	3-M20 8.8/S
410 UB, 460 UB,	10	6CFW	3-M20 8.8/S
530 UB	10	6CFW	3-M20 8.8/S
610 UB	10	6CFW	3-M20 8.8/S
THIS SHEDULE APPLIES TO ALL BEAM CLEATED CONNECTIONS UNLESS NOTED OTHERWISE			



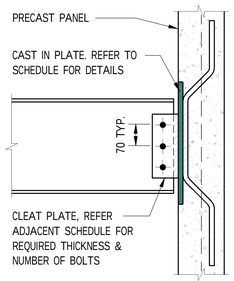
TYPICAL BEAM TO COLUMN CONNECTION



TYPICAL BEAM TO BEAM CONNECTION



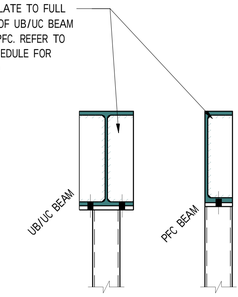
TYPICAL BEAM TO SHS/RHS/CHS COLUMN CONNECTION



TYPICAL BEAM TO PRECAST PANEL CONNECTION

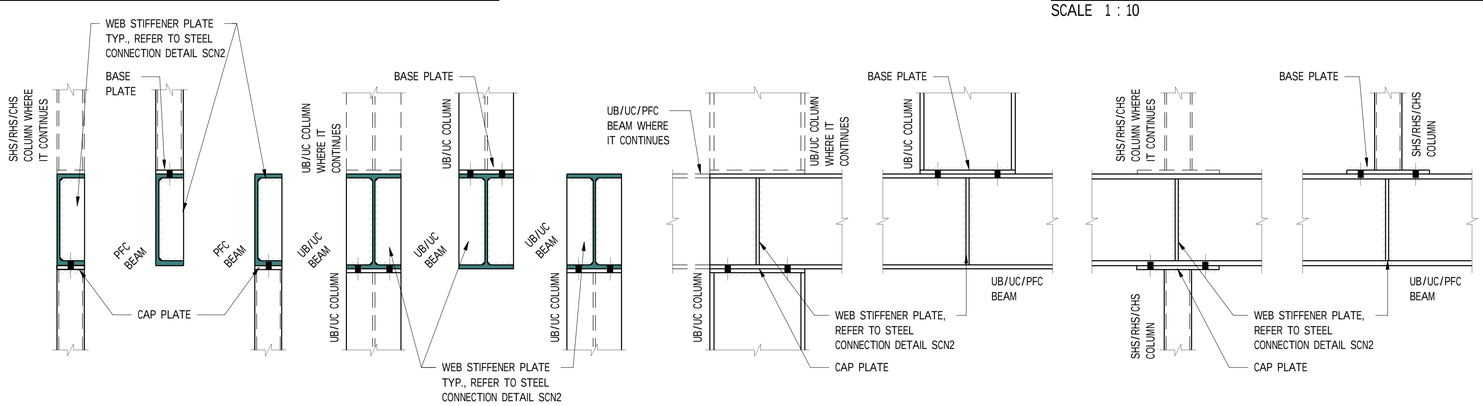
STEEL CONNECTION TYPE SCN1 - TYPICAL CLEATED BEAM CONNECTION DETAILS
SCALE 1 : 10

TYPICAL STIFFENER PLATE SCHEDULE		
BEAM SIZE	STIFFENER PLATE THICKNESS (mm)	WELD
150 UC, 150 UB, 180 UB, 200 UC, 200 UB, 250 UC, 250 UB, 150 PFC 180 PFC, 200 PFC, 250 PFC	10	6CFW
310 UB, 360 UB, 300 PFC, 380 PFC	12	6CFW
410 UB, 460 UB,	12	6CFW
530 UB	16	6CFW
610 UB	16	6CFW
THIS SHEDULE APPLIES TO ALL BEAM STIFFENER PLATES UNLESS NOTED OTHERWISE		

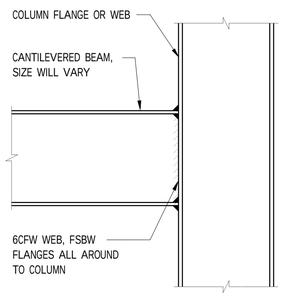


STEEL CONNECTION TYPE SCN2 - TYPICAL BEAM STIFFENER DETAILS
SCALE 1 : 10

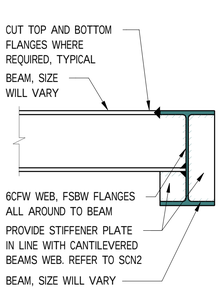
TYPICAL COLUMN TO BEAM SCHEDULE			
BEAM SIZE	CAP/BASE PLATE THICKNESS (mm)	WELD	BOLTS
150 PFC, 180 PFC	10	6CFW	2-M16 8.8/S
200 PFC, 250 PFC	10	6CFW	2-M20 8.8/S
300 PFC, 380 PFC	12	6CFW	2-M20 8.8/S
150 UC, 150 UB, 180 UB	10	6CFW	2-M16 8.8/S
200 UC, 200 UB, 250 UC, 250 UB	10	6CFW	4-M20 8.8/S
310 UB, 360 UB	12	6CFW	4-M20 8.8/S
410 UB, 460 UB,	12	6CFW	4-M20 8.8/S
530 UB	16	6CFW	4-M20 8.8/S
610 UB	16	6CFW	4-M20 8.8/S
THIS SCHEDULE APPLIES TO ALL COLUMN TO BEAM CAP & BASE PLATES THAT CONNECT TO STEELWORK UNLESS NOTED OTHERWISE			



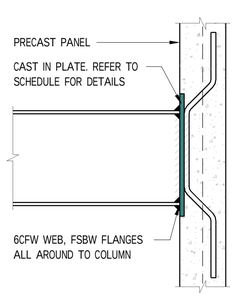
STEEL CONNECTION TYPE SCN3 - TYPICAL BEAM TO COLUMN DETAILS
SCALE 1 : 10



TYPICAL CANTILEVERED BEAM TO COLUMN CONNECTION

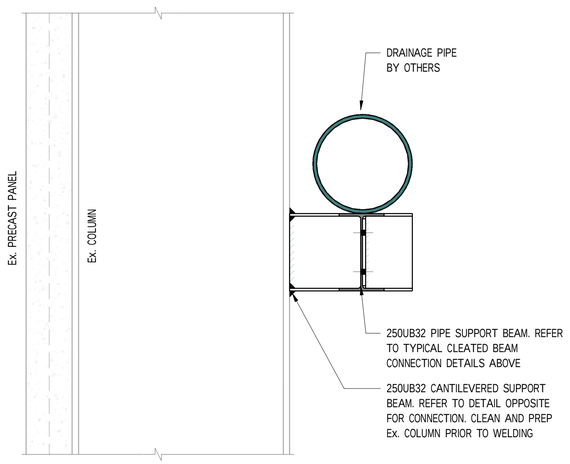


TYPICAL CANTILEVERED BEAM TO BEAM CONNECTION



TYPICAL CANTILEVERED BEAM TO PRECAST PANEL CONNECTION

STEEL CONNECTION TYPE SCN4 - CANTILEVERED CONNECTION
SCALE 1 : 10



DRAINAGE SUPPORT SYSTEM
SCALE 1 : 10

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REVIT MODEL NAME		PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	31/08/23	ISSUED FOR INFORMATION		WVM	DRAFTER	H.ALI
		REVISION IN PROGRESS			DRAFTING CHECK	D.ADKINS
					DESIGNER	N.MASROORI
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

SCALES AT A1 SIZE DRAWING

SCALE 1:10 0.1 0 0.1 0.2 0.3 0.4 0.5

SCALE 1:5 0.05 0 0.1 0.2

DESIGNER
SMEC
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SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
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30019108

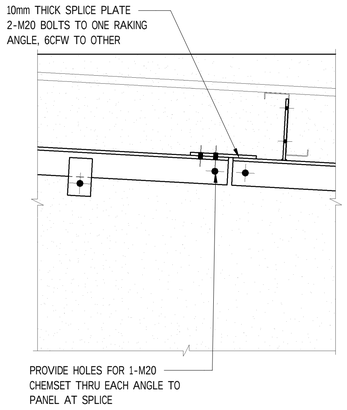
CHECK PRINT

	PRELIM. INITIAL	FINAL DATE
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

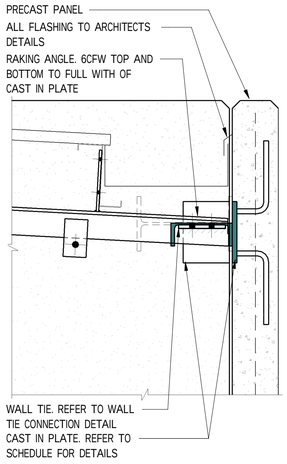
PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
STEEL DETAILS
9 WHYALLA PLACE
PRESTONS, NSW
SHEET 01 OF 03

SCALE	PHASE	PROJECT / DRAWING No	REVISION
1 : 10	PRELIM	30019108 - 060	A

150 mm ON ORIGINAL
A1
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RAKING ANGLE TO CAST-IN-PLATE & WALL TIE CONNECTION (BOX GUTTER)

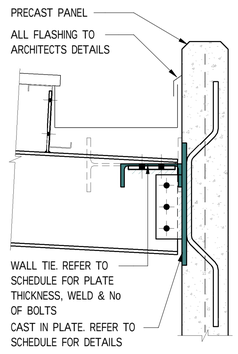


RAKING ANGLE TO CAST-IN-PLATE & WALL TIE CONNECTION (BOX GUTTER)

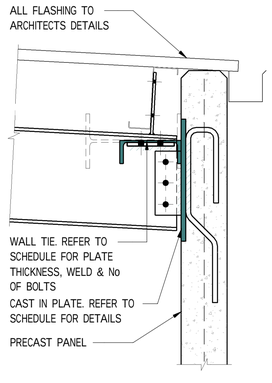
TYPICAL WALL TIE CLEAT CONNECTION SCHEDULE

BEAM SIZE	CLEAT (mm)	WELD	No. OF BOLTS
150 PFC	10	6CFW	2-M16 8.8/S
180 PFC	10	6CFW	2-M20 8.8/S
200 PFC	10	6CFW	2-M24 8.8/S
230 PFC	10	6CFW	2-M24 8.8/S
250 PFC	10	6CFW	2-M24 8.8/S
300 PFC	12	6CFW	3-M24 8.8/S
380 PFC	12	6CFW	3-M24 8.8/S
310 UB	12	6CFW	3-M24 8.8/S
360 UB	12	6CFW	3-M24 8.8/S
410 UB	16	6CFW	4-M20 8.8/S
460 UB	16	6CFW	4-M20 8.8/S

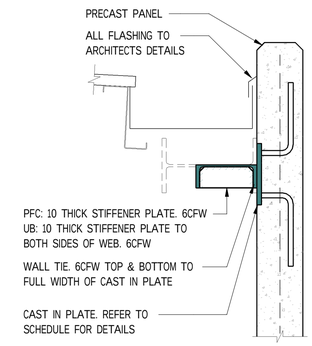
THIS SHEDULE APPLIES TO ALL WALL TIE CONNECTIONS UNLESS NOTED OTHERWISE



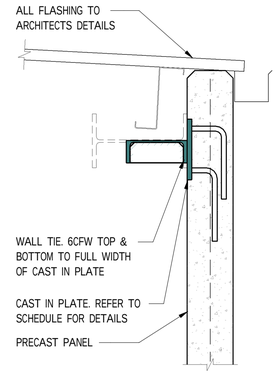
WALL TIE TO ROOF BEAM/RAKER CONNECTION (BOX GUTTER)



WALL TIE TO ROOF BEAM/RAKER CONNECTION (EAVES GUTTER)



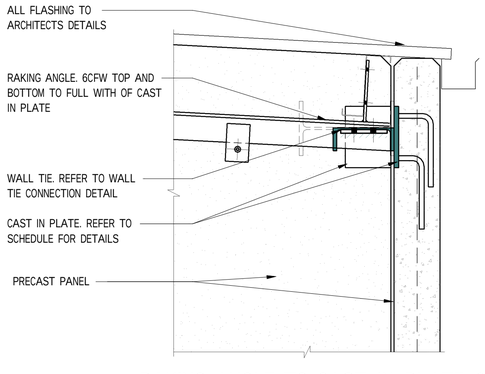
WALL TIE MID SPAN SUPPORT CONNECTION (BOX GUTTER)



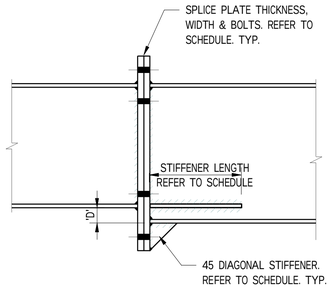
WALL TIE MID SPAN SUPPORT CONNECTION (EAVES GUTTER)

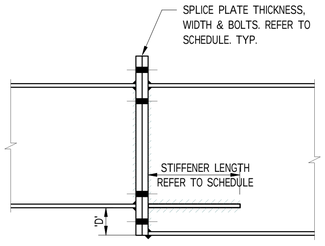
STEEL CONNECTION TYPE SCN6 - TYPICAL WALL TIE DETAILS
SCALE 1 : 10

STEEL CONNECTION TYPE SCN7 - TYPICAL WALL TIE MID SPAN RESTRAINT DETAILS
SCALE 1 : 10



RAKING ANGLE TO CAST-IN-PLATE & WALL TIE CONNECTION (EAVES GUTTER)





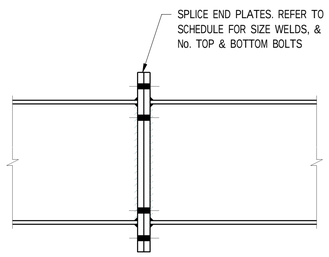
TYPICAL ROOF BEAM SPLICE CONNECTION SCHEDULE

BEAM SIZE	SPLICE END PLATES (mm)	WEB WELD	FLANGES WELD	No. OF TOP BOLTS	No. OF BOTTOM BOLTS	STIFFENER PLATES WIDTH x LENGTH x THICKNESS (mm)	DIAGONAL STIFFENER THICKNESS (mm)
250 UB	200 x 20	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB	85 x 300 x 10	10
310 UB	200 x 20	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB	75 x 300 x 12	12
360 UB	200 x 20	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB	75 x 300 x 12	12
410 UB	200 x 25	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB	90 x 300 x 12	12
460 UB	200 x 25	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB	90 x 300 x 16	16
530 UB	200 x 32	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB	100 x 300 x 16	16
610 UB	200 x 32	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB	100 x 300 x 20	20

CAVEATS GO HERE...

ALL DETAILS ARE TO BE CONFIRMED

STEEL CONNECTION TYPE SCN5 - TYPICAL RAKING ANGLE CONNECTION DETAILS
SCALE 1 : 10



TYPICAL ROOF BEAM SPLICE CONNECTION SCHEDULE

BEAM SIZE	SPLICE END PLATES (mm)	WEB WELD	FLANGES WELD	No. OF TOP BOLTS	No. OF BOTTOM BOLTS
250 UB	200 x 20	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB
310 UB	200 x 20	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB
360 UB	200 x 20	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB
410 UB	200 x 25	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB
460 UB	200 x 25	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB
530 UB	200 x 32	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB
610 UB	200 x 32	FSBW	6CFW	4-M?? 8.8/TB	4-M?? 8.8/TB

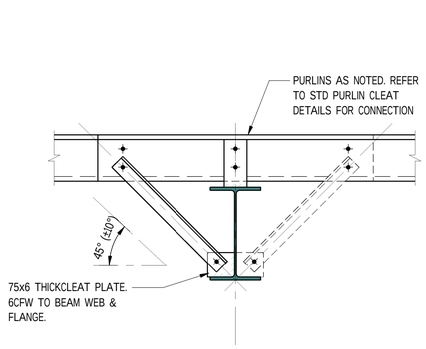
CAVEATS GO HERE...

ALL DETAILS ARE TO BE CONFIRMED

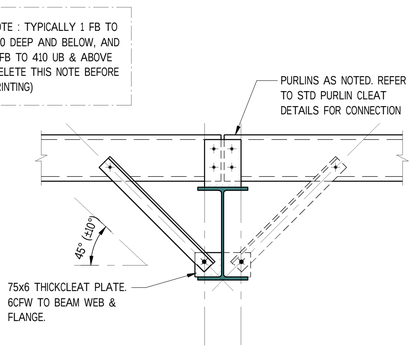
STEEL CONNECTION TYPE SCN10- TYPICAL ROOF BEAM SPLICE DETAIL - BEAM SAME SIZE
SCALE 1 : 10

STEEL CONNECTION TYPE SCN9- TYPICAL ROOF BEAM SPLICE DETAIL - BEAM DIFFERENT SIZE
SCALE 1 : 10

NOTE : TYPICALLY 1 FB TO 360 DEEP AND BELOW, AND 2 FB TO 410 UB & ABOVE (DELETE THIS NOTE BEFORE PRINTING)



FLY BRACE TO 'Z' PURLINS



FLY BRACE TO 'C' PURLINS

STEEL CONNECTION TYPE SCN8- TYPICAL FLYBRACE DETAILS
SCALE 1 : 10

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NOT FOR CONSTRUCTION

150 mm ON ORIGINAL

A1

REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	31/08/23	ISSUED FOR INFORMATION		WVM	DRAFTER	H.ALI
		REVISION IN PROGRESS			DRAFTING CHECK	D.ADKINS
					DESIGNER	N.MASROORI
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

SCALES AT A1 SIZE DRAWING

SCALE 1:10 0.1 0 0.1 0.2 0.3 0.4 0.5

SCALE 1:5 0.05 0 0.1 0.2

DESIGNER
SMEC
Member of the Surbana Jurong Group
SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
LEVEL 4 19 GRENFELL STREET
ADELAIDE SA. 5000
PH 08 8225 9800 FAX 08 8225 9850
30019108

DESIGN	PRELIM. INITIAL	FINAL DATE
CHECK PRINT		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

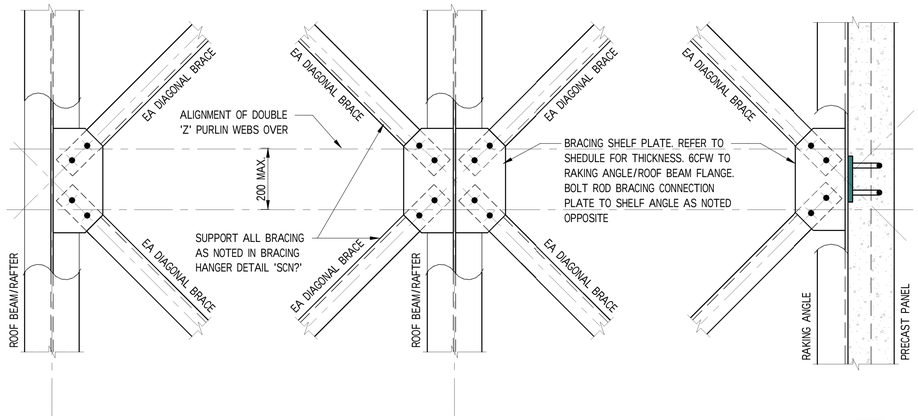
PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
STEEL DETAILS
9 WHYALLA PLACE
PRESTONS, NSW
SHEET 02 OF 03

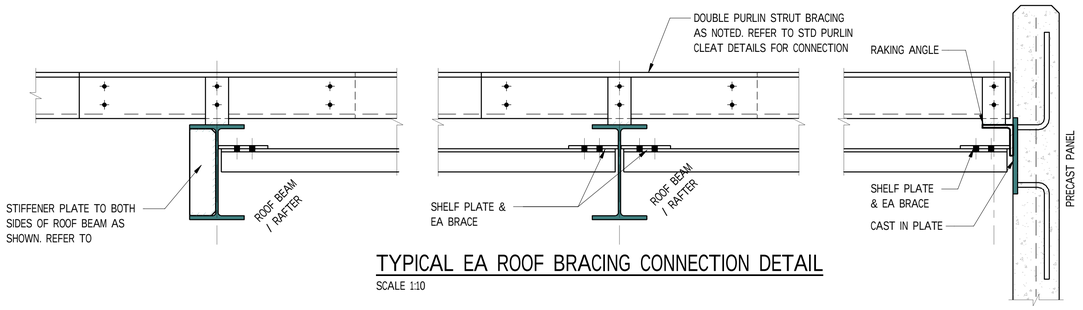
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
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TYPICAL EA SHELF PLATE CONNECTION SCHEDULE

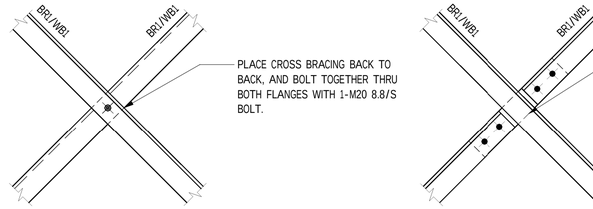
ANGLE BRACE SIZE (mm)	SIZE & No. OF BOLTS	MIN. CLEAT WIDTH (mm)	SHELF PLATE MIN. THICKNESS (mm)
75x75x6 EA	2-M20 8.8/S	75	10
75x75x10 EA	3-M20 8.8/S	125	10
90x90x8 EA	3-M20 8.8/S	125	10
90x90x10 EA	3-M24 8.8/S	150	12
100x100x8 EA	3-M24 8.8/S	125	12
100x100x10 EA	3-M24 8.8/S	150	12
125x125x10 EA	4-M24 8.8/S	150	16
CAVEATS GO HERE...			

AS THE DETAILS ARE TO BE CONFIRMED





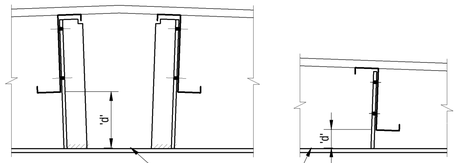
TYPICAL EA ROOF BRACING CONNECTION DETAIL
SCALE 1:10



STEEL CONNECTION TYPE SCN13- TYPICAL ROOF BRACING - EA DIAGONAL INTERSECTION DETAIL
SCALE 1 : 10

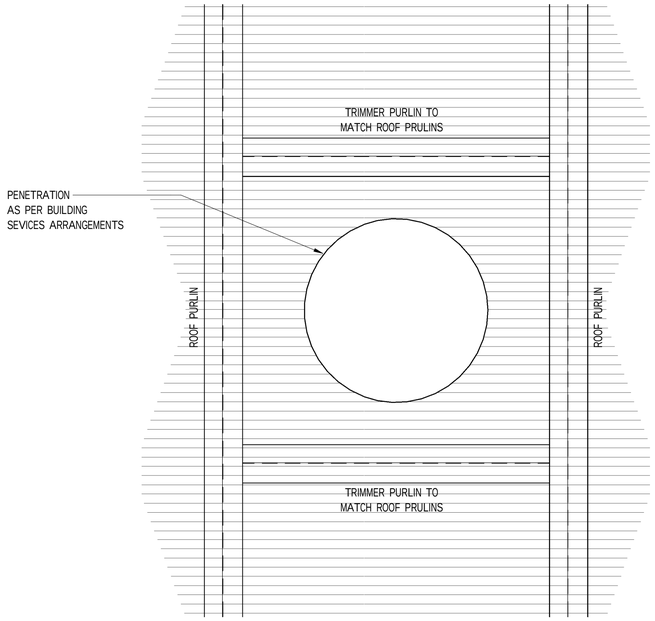
TYPICAL PURLIN CLEAT SCHEDULE

DISTANCE 'd' (mm)	CLEAT PLATE (mm)
10 - 60	8 THICK
60 - 120	10 THICK
120 - 300	75 x 75 x 6 EA
> 300	150 x 75 PFC
6CFW ALL CLEAT TO SUPPORTING MEMBER 2 - M12 BOLTS TO ALL PURLINS (U.N.O)	

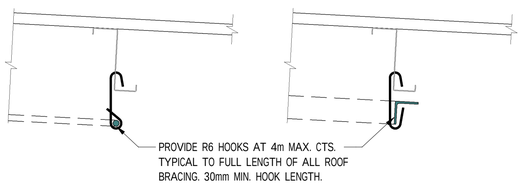


'd' < 120 'd' < 120

STEEL CONNECTION TYPE SCN12- TYPICAL PURLIN CLEAT CONNECTION DETAILS
SCALE 1 : 10



STEEL CONNECTION TYPE SCN11- TYPICAL PURLIN - PENETRATION TRIMMING DETAILS
SCALE 1 : 10



ROD DIAGONAL BRACE EA DIAGONAL BRACE

STEEL CONNECTION TYPE SCN15- TYPICAL ROOF BRACING - HANGER DETAILS
SCALE 1 : 10

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REVIT MODEL NAME

PLOT DATE

REV	DATE	AMENDMENT/REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
A	31/08/23	ISSUED FOR INFORMATION		WvM	DRAFTER	H.ALI
		REVISION IN PROGRESS			DRAFTING CHECK	D.ADKINS
					DESIGNER	N.MASROORI
					DESIGN CHECK	W.V.METZINGER
					PROJECT MANAGER	W.V.METZINGER
					PROJECT DIRECTOR	W.V.METZINGER

SCALES AT A1 SIZE DRAWING
SCALE 1:10 0.1 0 0.1 0.2 0.3 0.4 0.5
SCALE 1:5 0.05 0 0.1 0.2

DESIGNER
SMEC
Member of the Surbana Jurong Group
SMEC AUSTRALIA PTY LTD
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ADELAIDE SA. 5000
PH 08 8225 9800 FAX 08 8225 9850
30019108

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DISCIPLINE	PRELIM. INITIAL	FINAL DATE
DISCIPLINE		
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DISCIPLINE		
BACKDRAFTED/CORRECTED		
CONFIRMED		

PROJECT TITLE
PRESTONS WASTE TREATMENT FACILITY
STEEL DETAILS
9 WHYALLA PLACE
PRESTONS, NSW
SHEET 03 OF 03

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1 : 10	PRELIM	30019108 - 062	A

150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

Prestons Waste Treatment Facility

Amendment Report

Appendix E6

Electrical services design

ARCADIS

PRESTONS WASTE TREATMENT FACILITY

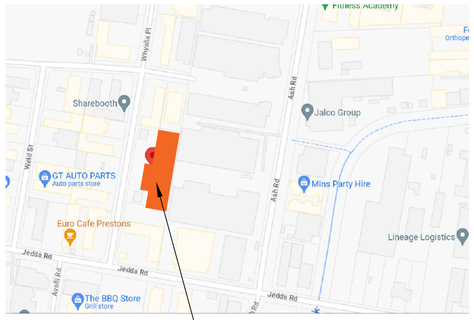
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

ELECTRICAL SERVICES

DRAWING LIST

E000	ELECTRICAL SERVICES COVER SHEET AND LEGENDS
E001	ELECTRICAL SERVICES NOTES AND SPECIFICATIONS
E100	ELECTRICAL SERVICES SITE RETICULATION LAYOUT
E200	ELECTRICAL SERVICES LIGHTING AND DRY FIRE LAYOUT
E300	ELECTRICAL SERVICES POWER AND COMMS LAYOUT
E301	ELECTRICAL SERVICES ROOF POWER AND COMMS LAYOUT
E400	ELECTRICAL SERVICES SCHEMATIC DRAWINGS 1
E401	ELECTRICAL SERVICES SCHEMATIC DRAWINGS 2
E402	ELECTRICAL SERVICES SCHEMATIC DRAWINGS 3

LOCATION MAP



9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

NOTE:
CONTRACTOR MUST ALLOW FOR THE ENGAGEMENT OF A SEISMIC DESIGN ENGINEER & ALLOW FOR ALL INSTALLATION TO COMPLY TO THE REQUIREMENTS OF AS1170.4-2007

LIGHTING LEGEND:

PRODUCT IMAGE	PREFIX	DESCRIPTION	SUPPLIER	MODEL NUMBER
	B1	42.1W, 6259lm, 4000K, IP65, LED SURFACE MOUNTED BATTEN LIGHT COMPLETE WITH POLYCARBONATE BASE AND DIFFUSER W/ STAINLESS STEEL CLIPS AND INTEGRAL CONTROL GEAR.	CLEVERTRONICS	ARGOPRO-1200
	H1	215W, 23200lm, 4000K, IP65, LED SUSPENDED HIGH BAY LIGHT COMPLETE WITH ALUMINUM-DIE CAST GEAR HOUSING AND INTEGRAL CONTROL GEAR. TO BE SUSPENDED AT 11m AFFL.	VERSALUX	DURALED-CAPRI-200W
	FL1	32W, 3950 lm, IP65, IK10, 4000K, LED WALL MOUNTED FLOOD LIGHT COMPLETE WITH DIE-CAST ALUMINIUM HOUSING, ASYMMETRIC OPTIC, BLACK FINISH AND INTEGRAL CONTROL GEAR.	VERSALUX	GUARDIAN-00437.08446
	PL1	58W, 6978lm, IP66, IK08, 4000K, LED POLE LIGHT COMPLETE WITH NANO OPTIC PRECISION DELIVERY GRID, 4.6m HIGH GALVANISED POLE WITH LOCKABLE CONNECTION TERMINAL BOX AT THE BASE OF THE POLE.	ADVANCE LIGHTING	XSPM-E-02-4ME-A-40K--24-BK-FX-S-00
	WX1	16W, 1945lm, 4000K, IP65, LED SURFACE MOUNTED WALL LIGHT COMPLETE WITH ALUMINUM-DIE CAST GEAR HOUSING AND INTEGRAL CONTROL GEAR. WITH EMERGENCY PACKAGE.	VERSALUX	CBKLEDN-BLK

EMERGENCY/EXIT LEGEND

PRODUCT IMAGE	PREFIX	DESCRIPTION	SUPPLIER	MODEL NUMBER
	B1E	44.8W, 6259lm, 4000K, IP65 LED SURFACE MOUNTED NON-MAINTAINED EMERGENCY BATTEN LIGHT. COMPLETE WITH L10 LITHIUM IRON PHOSPHATE BATTERY TECHNOLOGY. AS2293 CLASSIFICATION C0 = D63; C90=D40	CLEVERTRONICS	ARGOPRO-1200-LP
	EM1	1W IP65 LED SURFACE MOUNTED NON-MAINTAINED EMERGENCY FITTING. COMPLETE WITH L10 LITHIUM NANO PHOSPHATE BATTERY TECHNOLOGY. AS2293 CLASSIFICATION C0 = D40; C90=D40	CLEVERTRONICS	LLIFE-SM-WP
	EX1	2.8W IP66 LED WALL MOUNTED MAINTAINED EXIT SIGN FITTING. COMPLETE WITH L10 LITHIUM NANO PHOSPHATE BATTERY TECHNOLOGY AND DIRECTIONAL PICTORGRAPH. AS2293 CLASSIFICATION C0 = E1.6; C90 = E1.6, VIEWING DISTANCE = 24 METRES	CLEVERTRONICS	LWELED-WM
	EX2	2.9W IP66 LED SURFACE/WALL MOUNTED MAINTAINED EXIT SIGN FITTING. COMPLETE WITH L10 LITHIUM NANO PHOSPHATE BATTERY TECHNOLOGY AND DIRECTIONAL PICTORGRAPH. AS2293 CLASSIFICATION C0 = D6.3; C90 = E4, VIEWING DISTANCE = 40 METRES	CLEVERTRONICS	CJWELED-40

ABBREVIATIONS:

AFFL	ABOVE FLOOR FINISH LEVEL
AB	DENOTES MOUNTED ABOVE BENCH. MOUNTING HEIGHT CANNOT BE MORE THAN 1100mm AFFL
AC	AIR CONDITIONING
ACS	ACCESS CONTROL SYSTEM
AD	AUTODOOR
ADH	DENOTES MOUNTED ABOVE DOOR HEIGHT
D	DEMOLISH/DECOMMISSIONED
DE	DUST EXTRACTION
FC	FORK LIFT CHARGER
FIP	FIRE INDICATOR PANEL
FSD	FIRE SHUTTER DOOR
HWP	HOT WATER PLANT
HWU	HOT WATER UNIT
IC	DENOTES MOUNTED IN CEILING SPACE
IG	IGNITION
LRS	LICENSE RECOGNITION SYSTEM
N	NEW
NRS	NUMBER PLATE RECOGNITION SYSTEM
PW	PRESSURE WASHER
RH	RANGEHOOD
RSD	ROLLER SHUTTER DOOR
SHR	SHREDDER
R	RELOCATED
RWP	RAINWATER PUMP
UB	DENOTES MOUNTED UNDERBENCH
WB	WEIGHBRIDGE
WE	WELDING EQUIPMENT
WP	WEATHERPROOF
WW	WHEEL WASH

RETICULATION LEGEND:

ONLY MAJOR ROUTES HAVE BEEN DOCUMENTED ON LAYOUTS. CONTRACTOR TO ENSURE ALL CABLE RETICULATION IS ALLOWED.

- E — ELECTRICAL PIT
- C — COMMUNICATIONS PIT
- E — CONDUIT FOR ELECTRICAL SERVICES
- E — EXISTING CONDUIT FOR ELECTRICAL SERVICES TO BE DECOMMISSIONED AND REMOVED
- C — CONDUIT FOR COMMUNICATIONS SERVICES

LIGHTING CONTROLS:

- n — SINGLE SWITCH-15A; n = DENOTES GANG QTY; TYPE: CLIPSAL C2000 RANGE OR APPROVED EQUIVALENT
- LCx — LIGHTING CONTROL PANEL
- SWITCH WIRE

DRY FIRE LEGEND:

- FIP — FIRE INDICATING PANEL
- AS1670 THERMAL DETECTOR
- AS1670 HORN SPEAKER

POWER LEGEND:

- MSB — MAINS SWITCHBOARD
- DB.x — DISTRIBUTION BOARD
- R DB.x — EXISTING DISTRIBUTION BOARD TO BE RELOCATED
- E DB.x — EXISTING DISTRIBUTION BOARD TO BE REMAIN. MODIFY AS REQUIRED TO SUIT NEW WORKS
- SINGLE 10A SWITCH SOCKET OUTLET (SGPO) CONSOLIDATE GANGS FOR A SINGLE PLATE WHERE POSSIBLE CAT NO: CLIPSAL 2000 SERIES OR APPROVED EQUIVALENT
- DOUBLE 10A SWITCH SOCKET OUTLET (DGPO) CONSOLIDATE GANGS FOR A SINGLE PLATE WHERE POSSIBLE CAT NO: CLIPSAL 2000 SERIES OR APPROVED EQUIVALENT
- 20A SWITCHED MULTIPHASE SOCKET OUTLET (5-PIN). THE SOCKET SHALL BE RCD PROTECTED AT THE SWITCHBOARD. MOUNTING HEIGHT AS NOTED ON THE DRAWING CAT NO: CLIPSAL 56 SERIES OR APPROVED EQUIVALENT
- xxA — SINGLE PHASE DIRECT CONNECTED ISOLATOR. RATING AS INDICATED. CAT NO: CLIPSAL 56 SERIES OR APPROVED EQUIVALENT
- xxA — THREE PHASE DIRECT CONNECTED ISOLATOR. RATING AS INDICATED. CAT NO: CLIPSAL 56 SERIES OR APPROVED EQUIVALENT
- xxA — THREE PHASE DIRECT CONNECTED ISOLATOR. RATING AS INDICATED. CAT NO: CLIPSAL 56 SERIES OR APPROVED EQUIVALENT

COMMUNICATIONS LEGEND

- E — EXISTING DATA RACK TO BE REMAIN. PROVIDE NEW 24WAY PATCH PANEL FOR THE PROPOSED NEW WORK
- E NTD — EXISTING NBN NETWORK TERMINATION DEVICE TO BE REMAIN. MODIFY AS REQUIRED TO SUIT NEW WORKS
- E PCD — EXISTING NBN PREMISES CONNECTION DEVICE TO BE REMAIN. MODIFY AS REQUIRED TO SUIT NEW WORKS
- DOUBLE CAT 6 DATA OUTLET NOTE: MOUNTING HEIGHTS ARE AS SHOWN ON THE DRAWING. MOUNTING HEIGHT WILL BE 300mm AFFL UNLESS OTHERWISE NOTED ON THE DRAWING. TYPE: CLIPSAL C2000 SERIES OR APPROVED EQUAL

SCHEMATIC LEGEND

- PAD MOUNT TRANSFORMER
- BUSBAR
- ATS xxxA — AUTOMATIC TRANSFER SWITCH "xxxA" DENOTES RATING
- xxxA — ISOLATOR SWITCH "xxxA" DENOTES RATING
- xxxA — MOULDED CASE CIRCUIT BREAKER (MCCB) OR MINIATURE CIRCUIT BREAKER (MCB) "xxxA" DENOTES RATING
- xxxA — RESIDUAL CURRENT DEVICE CIRCUIT BREAKER (RCD OR RCBO) "xxxA" DENOTES RATING
- SINGLE PHASE
- THREE PHASE
- FUSE
- xxxA — COMBINATION FUSE SWITCH
- kWh — kWh AUTHORITY METER CURRENT TRANSFORMER
- MFM — MULTI-FUNCTION METER
- SURGE DIVERTER
- E N MEN LINK — MEN LINK

REV	DESCRIPTION	DATE
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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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DRAWING TITLE
ELECTRICAL SERVICES
COVERSHEET AND LEGENDS

SCALE	NTS	DATE	Sep-23	DRAWN	JD	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	JI	CHECKED	SJ	DRAWING NO.	E000

REVISION P1

ELECTRICAL SERVICES

GENERAL SPECIFICATIONS

PROPOSED DEVELOPMENT FOR PRESTONS WASTE TREATMENT FACILITY LOCATED AT 9 WHYALLA PL, PRESTONS, NEW SOUTH WALES.

THE ELECTRICAL SERVICES INSTALLATION SHALL COMPRISE OF THE FOLLOWING ITEMS:

1. THE POWER SUPPLY IS 415/240 VOLT, 50 HERTZ, 3 PHASE, 4 WIRE ALTERNATING CURRENT.
2. ALL WORK SHALL BE IN ACCORDANCE WITH BCA, VS & I RULES, FOXTEL'S LATEST RULES AND REGULATIONS, TELSTRA'S RULES AND REGULATIONS, NBN CO LTD RULES AND REGULATIONS, ACMA REGULATIONS AND REQUIREMENTS, AS-3000:2018, AS-3008.1, AS 3786, AS 1680, AS 1851.8, AS 1428.1, AS 1367, AS 1768, AS 3439, AS 3003, AS 3080, AS 3084, AS 3085.1, AS IEC 61935.1, AS/CA S008, AS/ACIF S009 AND ANY OTHER RELEVANT AUSTRALIAN STANDARDS. THIS ALSO INCLUDES COMPLIANCE WITH BCA SECTIONS J6 AND J8.
   ALL WORK SHALL BE COMPLETED TO COMPLY WITH NDIS SPECIALIST DISABILITY ACCOMMODATION DESIGN STANDARD - EDITION 1.1 ISSUE DATE 25TH OCTOBER 2019
3. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, STRUCTURAL AND OTHER CONSULTING SERVICES DRAWINGS AND SPECIFICATIONS.
4. CO-ORDINATE ALL ELECTRICAL WORKS WITH ALL OTHER SERVICES PRIOR TO COMMENCEMENT OR WORKS TO ELIMINATE CLASHES.
5. PROVIDE 3 COPIES OF "AS BUILT" DRAWINGS (AUTOCAD 2010 DRAWING FORMAT) AND MAINTENANCE MANUALS. ALL SYSTEMS AND EQUIPMENT DETAILS, BROCHURES, SCHEMATIC DIAGRAMS, MAINTENANCE ITEMS, TEST RESULTS AND DISC FOR DRAWINGS SHALL BE INCLUDED IN THE MANUAL.
6. ALL CABLING SHALL BE INSTALLED CONCEALED IN FALSE CEILING SPACES, ROOF SPACES, STUD WALLS, VOIDS, CLIPPED TO PURLINS, ETC. LIGHTING AND POWER CABLES MAY BE INSTALLED ON CATENARIES CONCEALED IN FALSE CEILING AND ROOF SPACES. PROVIDE SEPARATE CATENARIES FOR SUB-MAINS, LIGHTING AND POWER SUB-CIRCUITS, TELEPHONE, DATA, MATV, PAY TV, SECURITY, FIRE DETECTION AND ALARM SYSTEM, EVACUATION SPEAKERS, ETC. ALL CABLING SHALL BE INSTALLED WITHDRAWABLE AND NO JOINTS PERMITTED. WIRING TO LIGHT FITTINGS IN FALSE CEILING SPACES SHALL BE SUITABLE FOR FLEX AND PLUG ARRANGEMENT.
7. ALL PENETRATIONS WHICH PASS THROUGH SMOKE AND FIRE WALLS, SLABS, ETC. SHALL BE FIRE SEALED AFTER CABLES ARE INSTALLED, USING APPROVED FIRE RETARDANT MATERIAL BY THE ELECTRICAL CONTRACTOR. WHERE LIGHTING SWITCHES, GPO'S, POWER OUTLETS, TELEPHONE, DATA, TV OUTLETS, SECURITY, ETC. ARE RECESSED IN FIRE WALLS, PROVIDE FIRE AND ACOUSTIC RATINGS FOR THESE WALL BOXES TO MATCH THE FIRE RATINGS OF WALLS. WHERE THESE OUTLETS ARE INSTALLED BACK-TO-BACK, THEY SHALL BE INSTALLED OFF-SET.
8. ALL PENETRATIONS ENTERING THE BUILDING AT BASEMENT LEVEL AND BELOW GROUND LEVEL SHALL BE SEALED WATER TIGHT BY THE ELECTRICAL CONTRACTOR IN ORDER TO PREVENT WATER ENTERING INTO THE BASEMENT WITH INCOMING CONDUITS SLOPED AWAY FROM THE BUILDING.
9. FOR ROOMS AND AREAS WHICH ARE NOT PROVIDED WITH FALSE CEILINGS OR CEILING WIRING CAVITIES, WIRING SHALL BE INSTALLED IN SURFACE MOUNTED MINI DUCT OR CONDUIT AND INSTALLED CONCEALED AS MUCH AS POSSIBLE, SUCH AS AT BEAM CORNERS AND ANY OTHER SIMILAR LOCATIONS.
10. SUBMIT FOR APPROVAL SHOP DRAWING FOR THE MAIN SWITCHBOARD PRIOR TO CONSTRUCTION.
11. SUPPLY AND INSTALL NEW MAIN SWITCHBOARD, MAIN DISTRIBUTION BOARD AND OTHER DISTRIBUTION BOARDS AS INDICATE ON THE DRAWING TO THE COMPLY WITH ALL AUSTRALIAN STANDARDS, AUTHORITY AND CODE REQUIREMENTS.
12. ALL MCCB'S SHALL BE ADJUSTABLE SOLID STATE (ELECTRONIC) TYPE WITH TRIP FREE MECHANISMS.
13. WHERE SWITCHBOARDS ARE LOCATED ON WALLS FACING ROOMS AND/OR CORRIDORS, PROVIDE A PROTECTIVE SHEET METAL PANEL AT THE REAR OF SWITCHBOARD SO THAT IF OWNER/TENANT INSTALLS A NAIL IN THE WALL FOR HANGING PICTURES OR OTHER SUCH LIKE ITEMS, THE SWITCHBOARD IS MECHANICALLY PROTECTED FOR SUCH AN OCCURRENCE.
14. WHERE METERED SUB-MAINS ARE LARGER THAN THE ISOLATOR TERMINALS, PROVIDE SEPARATE JUNCTION BOX FOR TERMINATING SUB-MAINS IN DB WITH BUS-BAR LINKS TO THE DB MAIN SWITCH.
15. ALL ELECTRICAL AND VARIOUS COMMS CABLES ENTERING THE BUILDING BELOW GROUND LEVEL SHALL BE FIXED TO VERTICAL MOUNTED CABLE TRAY BETWEEN ENTRY POINT AND UP TO THE UNDERSIDE OF THE FLOOR SLAB AND PROVIDED WITH PROTECTIVE COVERS.
16. A LIST OF ALL CONTRACTORS, SUB-CONTRACTORS AND SUPPLIERS UTILISED FOR THE PROJECT WITH CONTACT DETAILS SHALL BE PROVIDED IN THE MANUAL. A LIST OF SPARE PARTS FOR MAINTENANCE SHALL ALSO BE INCLUDED IN THE MANUAL.
17. ALL LIGHTING SWITCHES, GPO'S, 1 PHASE AND 3 PHASE POWER OUTLETS AND ISOLATORS, CEILING SWEEP FANS, EXHAUST FANS, ETC. SHALL BE PROVIDED WITH CIRCUIT IDENTIFICATION VIA IP STUDS AT REAR OF PLATE SURROUNDS.
18. SUPPLY AND INSTALL UNDERGROUND CONDUITS FOR POWER, CAR PARK LIGHTING, COMMUNICATION SERVICES ETC. AS SHOWN ON THE PLAN AND AS REQUIRED.
19. PROVIDE TEST RESULTS FOR RCDS AND SMOKE ALARMS.
20. SUBMIT SHOP DRAWINGS OF DISTRIBUTION BOARDS TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO ORDERING AND MANUFACTURE.
21. THE MINIMUM SIZE CABLING FOR LIGHTING AND POWER SUB-CIRCUITS SHALL BE 2.5mm^2, PVC/PVC (TPS). ALL OTHER SUB-CIRCUITS CABLING SHALL MATCH THE CIRCUIT BREAKER RATINGS. CABLES SHALL BE MULTI-STRANDED COPPER CONDUCTORS 0.6/1KV GRADE 70°C RATED, WHITE SHEATH FOR LIGHTING AND BLACK SHEATH FOR POWER.
22. PROVIDE CIRCUIT BREAKERS (CB'S) ON SWITCHBOARDS TO SUIT RATINGS OF MECHANICAL SERVICES, INDOOR AND OUTDOOR A/C UNITS, EXHAUST FANS, ETC. MECHANICAL CONTRACTOR SHALL PROVIDE ISOLATORS, WIRING AND TERMINATIONS TO ALL MECHANICAL EQUIPMENT, FROM RESPECTIVE SWITCHBOARDS, INCLUDING CONTROLS. ELECTRICAL CONTRACTOR SHALL CONFIRM RATINGS OF CB'S AND SUB-CIRCUITS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
23. ELECTRICAL CONTRACTOR SHALL PROVIDE WALL AND FLOOR CHASING, MAKING GOOD AND PAINTING TO MATCH EXISTING BUILDING FINISHES FOR THE INSTALLATION OF POWER AND COMMS WIRING IN EXISTING BUILDING FINISHES WHERE THERE ARE NO STUD WALLS, CAVITIES, VOIDS, ETC. NOTE THAT ALL WIRING MUST BE INSTALLED WITHDRAWABLE AND IN CONDUITS.
24. AT ALL BATHROOMS, EN-SUITES OR WHERE SHOWERS ARE LOCATED, PROVIDE EARTH BONDING FROM DISTRIBUTION BOARD TO FLOOR SLAB REINFORCEMENT BARS IN ACCORDANCE WITH AS 3000.
25. SWITCHES, GPO'S, 15A AND 20A OUTLETS, DATA, TELEPHONE, MATV AND PAY TV OUTLETS SHALL BE CLIPSAL PRESTIGE P2000 SERIES. 3 PHASE POWER OUTLETS AND ISOLATORS SHALL BE POLYCARBONATE TYPE OF IP56 RATINGS, EQUAL TO CLIPSAL.
26. ELECTRICAL CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF ALL LIGHTING FITTINGS, GPO'S POWER OUTLETS, TELEPHONE, DATA, MATV AND PAY TV, SMOKE ALARMS, SECURITY, ETC. WITH ARCHITECTURAL DRAWINGS.
27. SAMPLES OF ALL LIGHTING FITTINGS SHALL BE SUBMITTED TO THE ARCHITECT AND SUPERINTENDENT PRIOR TO ORDERING AND INSTALLATION. NO ALTERNATIVES ARE ALLOWED. CONTRACTOR SHALL PROVIDE THE LIGHT FITTINGS AS DOCUMENTED. ESSJAY CONSULTING ENGINEERS WILL NOT APPROVE OR TAKE RESPONSIBILITY FOR THE ALTERNATIVE LIGHT FITTINGS. ALL RESPONSIBILITY SHALL BE BORNE BY THE BUILDER.
28. DRIVERS FOR LED LIGHTING SHALL BE ELECTRONIC HIGH FREQUENCY TYPE, EQUAL TO OSRAM OR TRIDONIC MANUFACTURE. LIGHT FITTINGS WHICH REQUIRE DIMMING SHALL BE PROVIDED WITH DIMMABLE BALLASTS AND DRIVERS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LIGHT FITTING SUPPLIER. FOR DIMMABLE LED LIGHT FITTINGS, A UNIVERSAL OR LEADING EDGE TYPE DIMMING SYSTEM SHALL BE USED.
29. SUPPLY AND INSTALL NEW EMERGENCY AND EXIT LIGHTS C/W TEST SWITCHES.
30. PROVIDE 12 MONTHS DEFECTS LIABILITY PERIOD, INCLUDING ALL MAINTENANCE AND CALL OUTS DURING THE MAINTENANCE PERIOD AND ANY NECESSARY RE-PROGRAMMING OF ANY SYSTEMS AS DIRECTED BY THE SUPERINTENDENT.
31. PROVIDE COMMISSIONING AND TESTING FOR ALL ITEMS OF THE ELECTRICAL SERVICES AND RECORD ALL TEST RESULTS IN THE LOG BOOK.
32. THE ELECTRICAL CONTRACTOR SHALL ALLOW TIME FOR TRAINING AND INSTRUCTION OF ALL MAINTENANCE PERSONNEL AND ALL OTHER ASSOCIATED COUNCIL STAFF ON ALL ASPECTS OF OPERATING AND MAINTENANCE PROCEDURES REQUIRED FOR EACH SEPARATE ITEM OF THE ELECTRICAL AND COMMS SERVICES.
33. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR ALL EXCAVATION, BACKFILLING, COMPACTING, MAKING GOOD, ROCK BLASTING AND REMOVAL FOR ALL ELECTRICAL AND COMMS (INCLUDING TELSTRA) UNDERGROUND CONDUITS.
34. THE EXISTING ELECTRICAL SERVICES SHALL BE COMPLETELY REMOVED UP TO POINT OF ORIGIN. THIS INCLUDES ALL WIRING, CONDUITS, FIXINGS, DEVICES, ETC. UP TO POINT OF ORIGIN.
35. WHERE FLUSH IN-GROUND LIGHT FITTINGS ARE INSTALLED IN LANDSCAPE AREAS PROVIDE CONCRETE PERIMETER STRIP AROUND LIGHT FITTING SUITABLE FOR LAWN MOWING.
36. LIGHTING SWITCHES AND GPO'S MUST BE MOUNTED MINIMUM 500mm AWAY FROM INTERNAL CORNERS. SWITCHES SHALL BE MOUNTED 900MM TO 1100m AFFL AND LEVEL WITH DOOR HANDLES. GPO'S SHALL BE MOUNTED 600mm AFFL AND NOT MORE THAN 1100mm AFFL ALL IN ACCORDANCE WITH AS1428.1.
37. SUPPLY AND INSTALL NEW AS1670.1:2018 SMOKE DETECTION SYSTEM FOR THE COMPARTMENTS 1 TO 3, TO COMPLY WITH ALL CODES AND REGULATORY REQUIREMENTS.
38. EARTHING SHALL BE IN ACCORDANCE WITH AS3000 AND ACMA.
39. PROVIDE POWER SUPPLY AND BUILT-IN BATTERY BACK-UP FOR ONE HOUR TO OPERATE THE INTERCOM SYSTEM IN THE EVENT OF A SUPPLY FAILURE.
40. ALL ELECTRICAL SERVICES TENDERERS SHALL VISIT THE SITE AND ASCERTAIN EXISTING CONDITIONS PRIOR TO TENDERING.
41. THE ELECTRICAL CONTRACTOR SHALL INCLUDE FOR ALL COSTS IN THE TENDER PRICE FOR STAGING OF WORKS, OUT OF HOURS WORK, SHUTDOWNS OF SWITCHBOARDS, DISTRIBUTION BOARDS, COMMS PANELS, MDF, ETC. FOR ADDITIONS AND ALTERATIONS DURING OUT OF HOURS AND ANY OTHER SUCH LIKE WORKS. THESE ITEMS TO BE COORDINATED WITH THE CLIENT AND SUPERINTENDENT.
42. PROVIDE UNDERGROUND CONDUITS FOR THE PROPOSED ACCESS CONTROL SYSTEM AT THE VEHICLE ENTRY GATES AS INDICATED ON THE DRAWINGS.
43. SUPPLY AND INSTALL NEW 24RU DATA RACK AS INDICATED ON THE DRAWING.

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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DRAWING TITLE
ELECTRICAL SERVICES
NOTES AND SPECIFICATIONS

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NOTE:
ALLOW TO ABOLISH REDUNDANT SERVICES. ENSURE ALL EXISTING ITEMS TO BE RETAINED ARE RECONNECTED AT END OF PROJECT. NO EXISTING SERVICES PLANS AVAILABLE DUSING DESIGN. CONTRACTOR TO INVESTIGATE ROUTE AND SOURCE OF SUPPLY TO ALL EXISTING SERVICES.

EXISTING DB-8 TO BE RELOCATED. ALLOW FOR NEW SUB-MAINS CABLING FROM THE NEW MDB-1. ALLOW TO DISCONNECT AND DISMANTLE EXISTING SUBMAINS.

CONTRACTOR TO SUPPLY AND INSTALL NEW FIP TO COMPLY WITH NCC 2022, AS1670.1:2018 AND ALL OTHER RELEVANT REGULATIONS AND STANDARDS.

ALLOW TO RE-ARRANGE ALL EXISTING CONNECTIONS FROM THE NEW FIP.

NEW DB-W FOR NEW EQUIPMENTS

EXISTING MSB SHALL BE RELOCATED AND RELABELLED AS MB1. RE-TERMINATE ALL FEEDS TO EXISTING DB-2 TO DB-7.

STROBIC FANS POWER SUPPLY TO BE PART OF THE MSSB BOARD. COORDINATE ALL WORKS WITH MECHANICAL CONTRACTOR.

TYPICAL:-
CONTRACTOR TO PROVIDE PROTECTION BOLLARD IN FRONT OF THE SWITCHBOARDS.

EXISTING UNDERGROUND CONDUIT FOR THE CONSUMER MAINS FROM THE SUBSTATION TO THE EX. MSB TO BE ABOLISHED

TYPICAL:-
ALL UNDERGROUND COMMUNICATIONS CONDUIT SHALL BE PROVIDED WITH PULL WIRE.

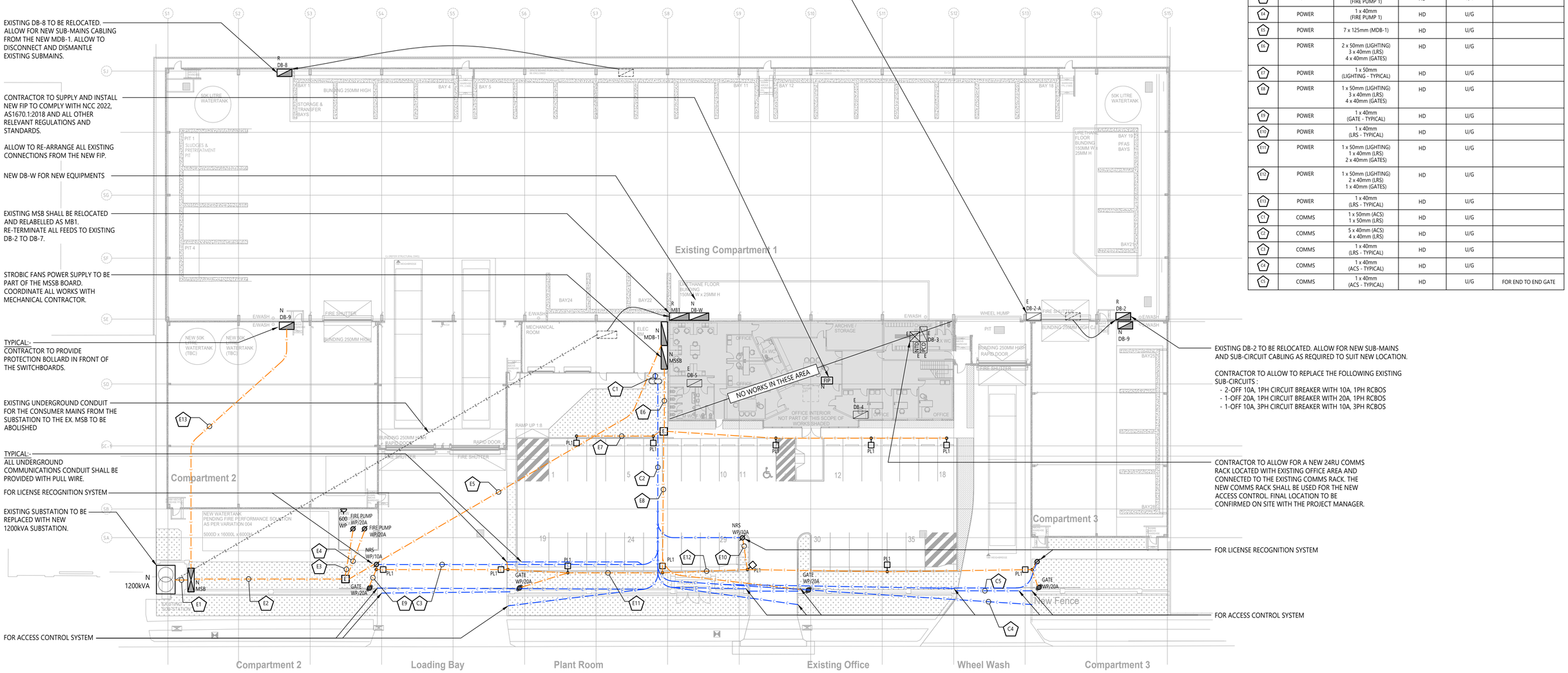
FOR LICENSE RECOGNITION SYSTEM

EXISTING SUBSTATION TO BE REPLACED WITH NEW 1200kVA SUBSTATION.

FOR ACCESS CONTROL SYSTEM

EXISTING DB-2 TO REMAIN.MODIFY AS REQUIRED TO SUIT NEW WORKS.

CONTRACTOR TO ALLOW TO REPLACE THE FOLLOWING EXISTING SUB-CIRCUITS :
- 2-OFF 10A, 1PH CIRCUIT BREAKER WITH 10A, 1PH RCBOS
- 5-OFF 20A, 1PH CIRCUIT BREAKER WITH 20A, 1PH RCBOS



EXISTING DB-2 TO BE RELOCATED. ALLOW FOR NEW SUB-MAINS AND SUB-CIRCUIT CABLING AS REQUIRED TO SUIT NEW LOCATION.

CONTRACTOR TO ALLOW TO REPLACE THE FOLLOWING EXISTING SUB-CIRCUITS :
- 2-OFF 10A, 1PH CIRCUIT BREAKER WITH 10A, 1PH RCBOS
- 1-OFF 20A, 1PH CIRCUIT BREAKER WITH 20A, 1PH RCBOS
- 1-OFF 10A, 3PH CIRCUIT BREAKER WITH 10A, 3PH RCBOS

CONTRACTOR TO ALLOW FOR A NEW 24RU COMMS RACK LOCATED WITH EXISTING OFFICE AREA AND CONNECTED TO THE EXISTING COMMS RACK. THE NEW COMMS RACK SHALL BE USED FOR THE NEW ACCESS CONTROL. FINAL LOCATION TO BE CONFIRMED ON SITE WITH THE PROJECT MANAGER.

FOR LICENSE RECOGNITION SYSTEM

FOR ACCESS CONTROL SYSTEM

CONDUIT SCHEDULE

CONDUIT NO.	SYSTEM	QTY / SIZE	CONSTRUCTION	INSTALLATION	COMMENT
E1	POWER	4 x 125mm (CONSUMER MAINS)	HD	U/G	
E2	POWER	7 x 125mm (MDB-1) 1 x 40mm (FIRE PUMP 1) 1 x 40mm (FIRE PUMP 2)	HD	U/G	
E3	POWER	1 x 40mm (FIRE PUMP 1)	HD	U/G	
E4	POWER	1 x 40mm (FIRE PUMP 1)	HD	U/G	
E5	POWER	7 x 125mm (MDB-1)	HD	U/G	
E6	POWER	2 x 50mm (LIGHTING) 3 x 40mm (LRS) 4 x 40mm (GATES)	HD	U/G	
E7	POWER	1 x 50mm (LIGHTING - TYPICAL)	HD	U/G	
E8	POWER	1 x 50mm (LIGHTING) 3 x 40mm (LRS) 4 x 40mm (GATES)	HD	U/G	
E9	POWER	1 x 40mm (GATE - TYPICAL)	HD	U/G	
E10	POWER	1 x 40mm (LRS - TYPICAL)	HD	U/G	
E11	POWER	1 x 50mm (LIGHTING) 1 x 40mm (LRS) 2 x 40mm (GATES)	HD	U/G	
E12	POWER	1 x 50mm (LIGHTING) 2 x 40mm (LRS) 1 x 40mm (GATES)	HD	U/G	
E13	POWER	1 x 40mm (LRS - TYPICAL)	HD	U/G	
C1	COMMS	1 x 50mm (ACS) 1 x 50mm (LRS)	HD	U/G	
C2	COMMS	5 x 40mm (ACS) 4 x 40mm (LRS)	HD	U/G	
C3	COMMS	1 x 40mm (LRS - TYPICAL)	HD	U/G	
C4	COMMS	1 x 40mm (ACS - TYPICAL)	HD	U/G	
C5	COMMS	1 x 40mm (ACS - TYPICAL)	HD	U/G	FOR END TO END GATE

1 E100 SITE RETICULATION LAYOUT

SCALE 1:250

SCALE: A1 SHEET 1:250, A3 SHEET 1:500

0 2.5 5 10 15 20 25 m

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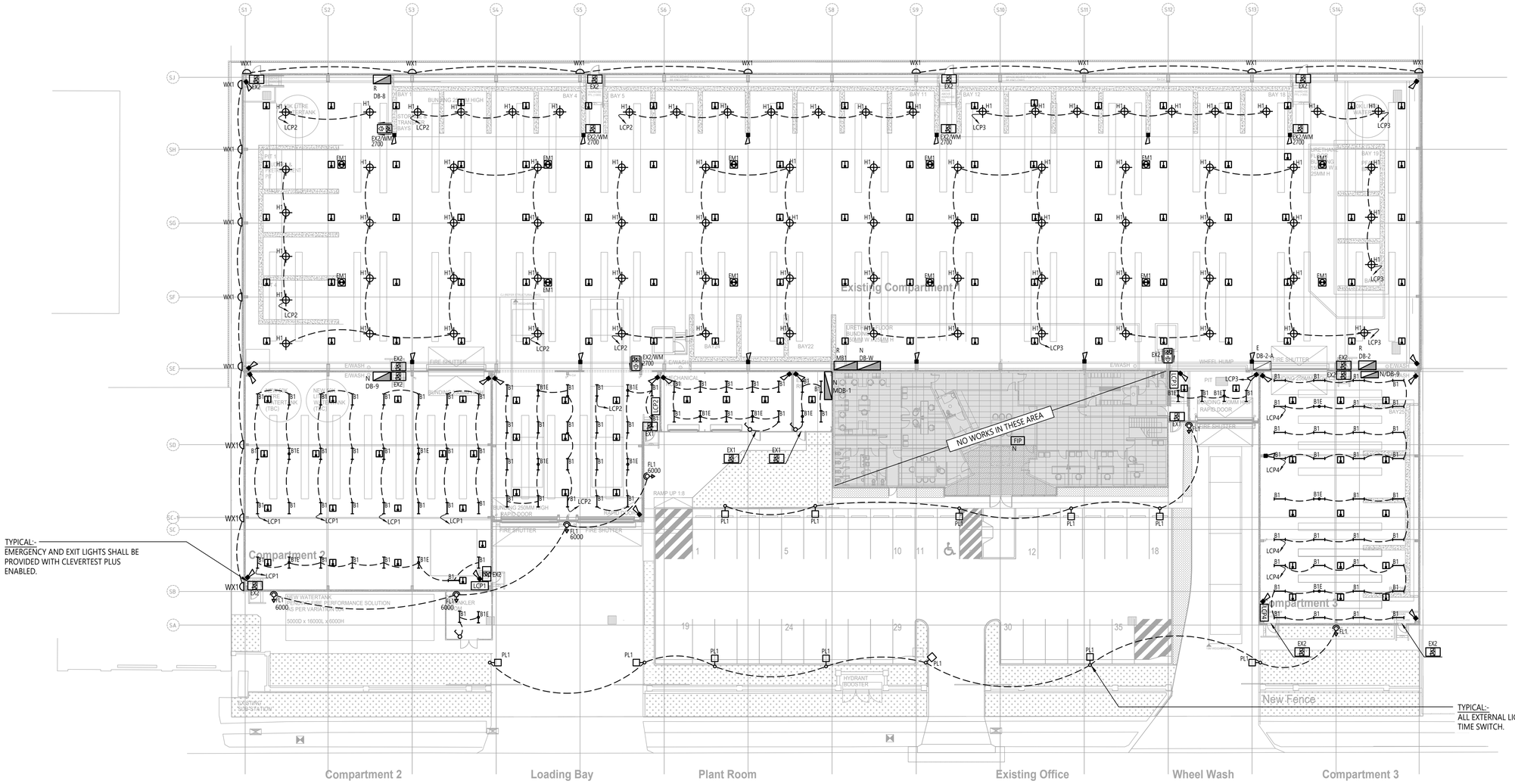
PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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DRAWING TITLE
ELECTRICAL SERVICES
SITE RETICULATION LAYOUT

SCALE	1:250	DATE	Sep-23	DRAWN	JD	PROJECT NO.	30019108
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REVISION P1



1 LIGHTING AND DRY FIRE LAYOUT
E200 SCALE 1:250

SCALE: A1 SHEET 1:250, A3 SHEET 1:500

0 2.5 5 10 15 20 25 m

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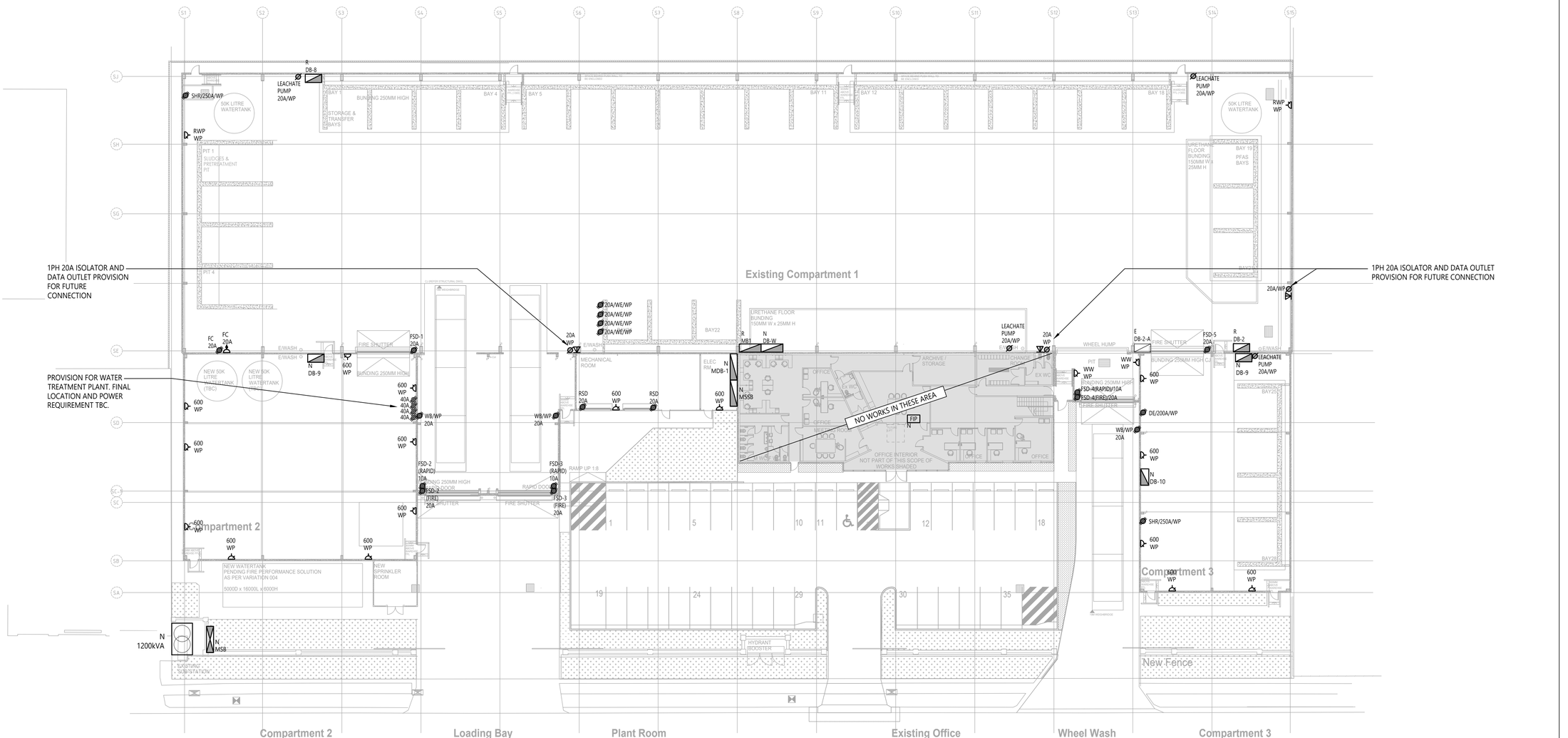
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DRAWING TITLE
ELECTRICAL SERVICES
LIGHTING AND DRY FIRE LAYOUT

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POWER AND COMMS LAYOUT

1 / E300

SCALE 1:250

SCALE: A1 SHEET 1:250, A3 SHEET 1:500

0 2.5 5 10 15 20 25 m

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PROJECT

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9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

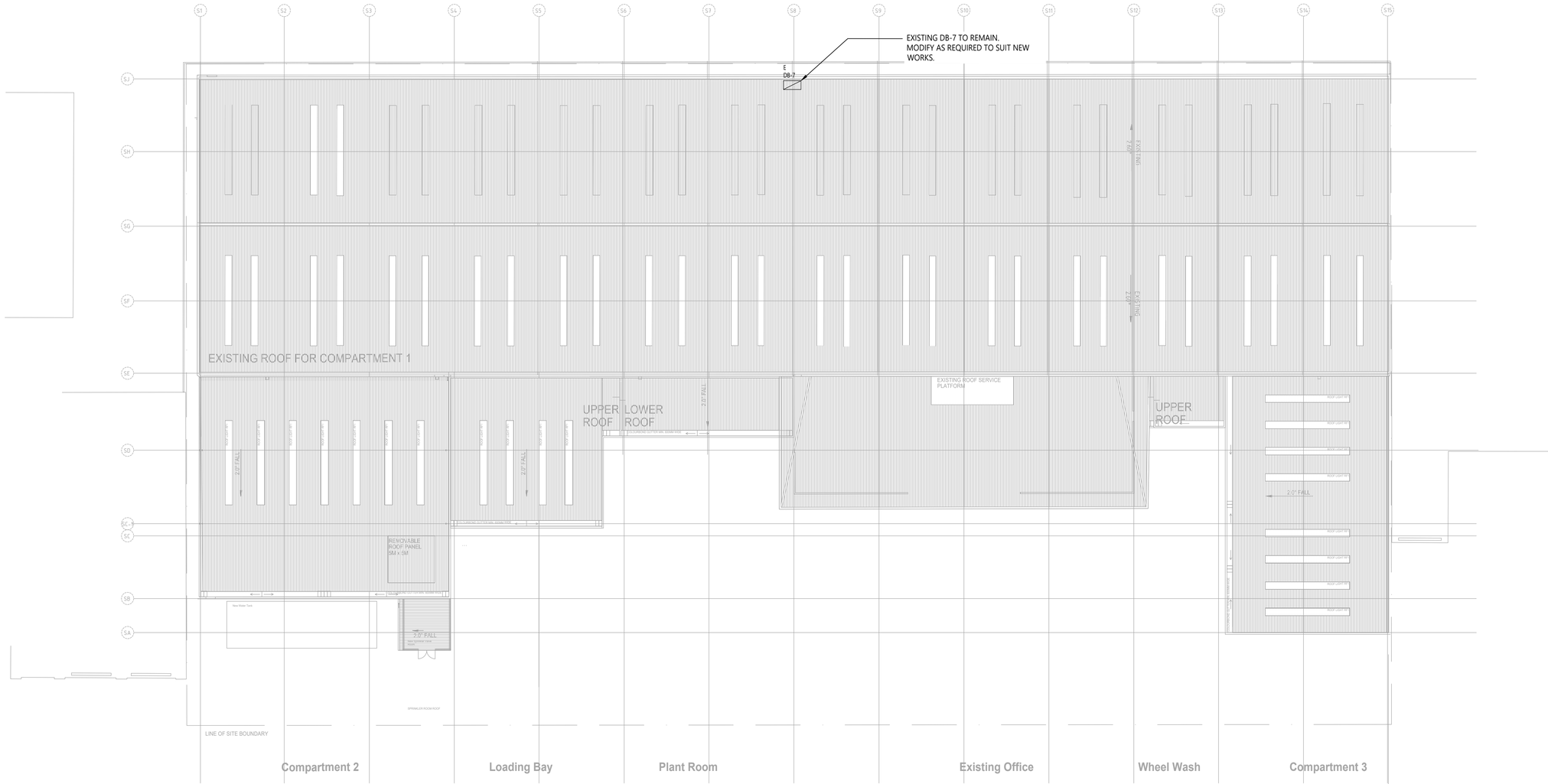
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ELECTRICAL SERVICES
POWER AND COMMS LAYOUT

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REVISION P1



1 E301 ROOF POWER AND COMMS LAYOUT

SCALE 1:250

SCALE: A1 SHEET 1:250, A3 SHEET 1:500

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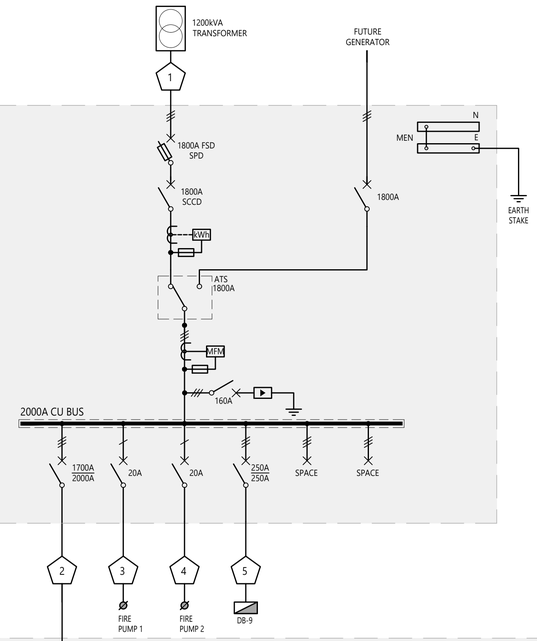
ELECTRICAL SERVICES
ROOF POWER AND COMMS LAYOUT

SCALE	1:250	DATE	Aug-23	DRAWN	JD	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	JI	CHECKED	SJ	DRAWING NO.	E301

REVISION P1

MAIN SWITCHBOARD

LOCATION	EXTERNAL
CONSTRUCTION	AS/NZS 61439, AS/NZS 3000
CABLE ENTRY / EXIT	BOTTOM / BOTTOM
MATERIAL	MINIMUM 1.6mm SHEET STEEL
DOOR	LOCKABLE
MOUNTING	FREE STANDING
RATING	2000A, 400V, 50Hz
FAULT RATING	50kA FOR 1 SECOND
FORM OF SEPARATION	FORM 1 AND 2 AS REQUIRED
PROTECTION RATING	IP66 TO AS1939
SPARE	25% CAPACITY AT COMPLETION
FINISH	ZINC ANNEALED, POWDER COATED
COLOUR	INTERNAL: WHITE EXTERNAL: GREY



NOTE:

1. **CONTRACTOR TO OBTAIN APPROVAL FROM THE POWER AUTHORITY'S SIR COMPLIANCE OFFICER AND THE ELECTRICAL CONTRACTOR'S PRIVATE INSPECTOR FOR THE PROPOSED SITE MAIN SWITCHBOARD FOR ALL AUTHORITY AND REGULATORY COMPLIANCE PRIOR TO THE MANUFACTURING OF THE BOARD.**

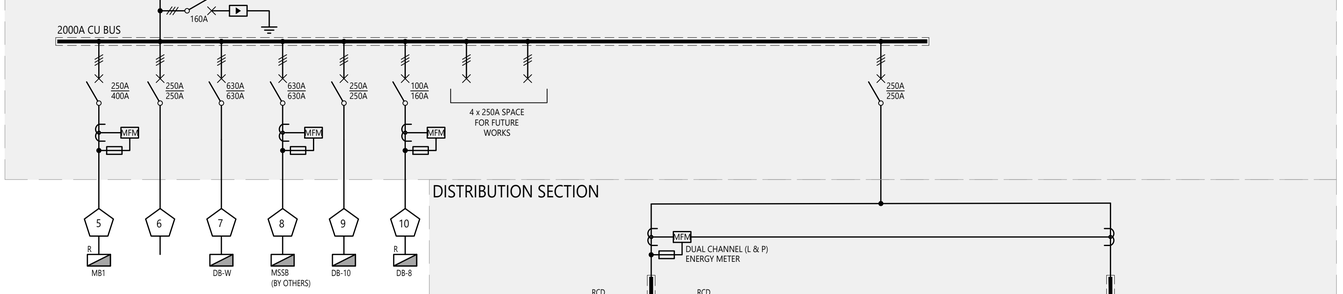
MSB / MDB-1 CABLE SCHEDULE

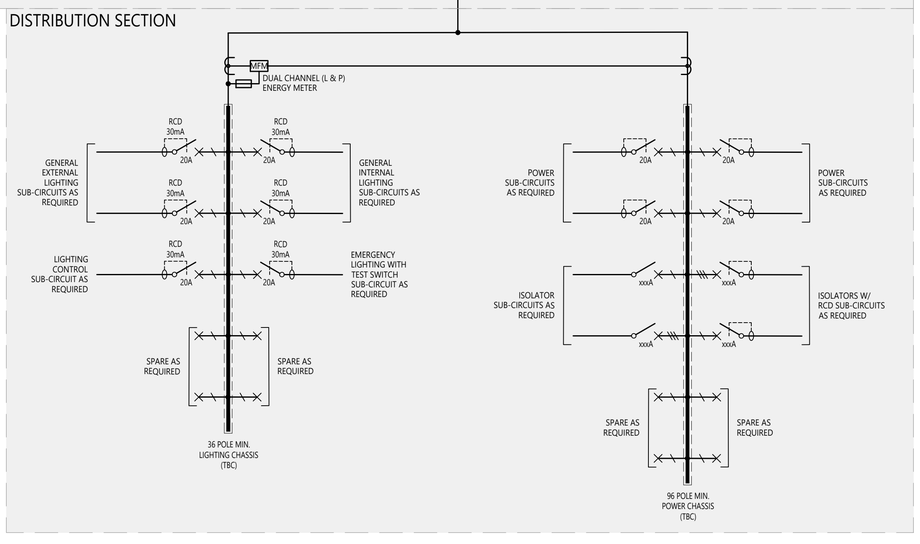
NOTE: CABLE LENGTHS SHALL BE SITE MEASURED ONSITE FOR FINAL CALCULATION AND INSTALLATION METHODS SHALL BE CONSIDERED FOR ANY ADDITIONAL CABLE DERATINGS REQUIRED.

CABLE NO.	STATUS	NO. OF PHASE	CABLE CRITERIA							
			CONFIGURATION	ACTIVE	NEUTRAL	EARTH	INSULATION	CONDUCTOR	LENGTH (m) (APPROXIMATE)	INSTALLATION
1	NEW	3	12 x 1C	500mm²	500mm²	-	FIRE RATED (X-HF-110)	CU	5	UNDERGROUND
2	NEW	3	24 x 1C + 6 x E	500mm²	500mm²	150mm²	XLPE (X-90)	CU	81	UNDERGROUND
3	NEW	1	1 x 2C + E	6mm²	6mm²	2.5mm²	FIRE RATED (X-HF-110)	CU	32	UNDERGROUND
4	NEW	1	1 x 2C + E	6mm²	6mm²	2.5mm²	FIRE RATED (X-HF-110)	CU	32	UNDERGROUND
5	NEW	3	4 x 1C + E	120mm²	120mm²	35mm²	XLPE (X-90)	CU	72	IN CONDUIT
6	NEW	3	4 x 1C + E	300mm²	300mm²	120mm²	XLPE (X-90)	CU	10	IN CONDUIT
7	NEW	3	8 x 1C + E	185mm²	185mm²	120mm²	XLPE (X-90)	CU	15	IN CONDUIT
8	NEW	3	4 x 1C + E	400mm²	400mm²	120mm²	XLPE (X-90)	CU	10	CABLE TRAY
9	NEW	3	4 x 1C + E	120mm²	120mm²	35mm²	XLPE (X-90)	CU	86	IN CONDUIT
10	NEW	3	4 x 1C + E	70mm²	70mm²	25mm²	XLPE (X-90)	CU	107	IN CONDUIT

MAIN DISTRIBUTION BOARD (MDB-1)

LOCATION	ELECTRICAL ROOM
CONSTRUCTION	AS/NZS 61439, AS/NZS 3000
CABLE ENTRY / EXIT	BOTTOM / BOTTOM, TOP
MATERIAL	MINIMUM 1.6mm SHEET STEEL
DOOR	LOCKABLE
MOUNTING	FREE STANDING
RATING	2000A, 400V, 50Hz
FAULT RATING	36kA FOR 1 SECOND
FORM OF SEPARATION	FORM 1 AND 2 AS REQUIRED
PROTECTION RATING	IP42 TO AS1939
SPARE	25% CAPACITY AT COMPLETION
FINISH	POWDER COATED
COLOUR	INTERNAL: WHITE EXTERNAL: ORANGE





1 E400

INDICATIVE MSB AND MDB-1 SCHEMATIC DIAGRAM

NTS

REV	DESCRIPTION	DATE
P1	70% PRELIMINARY ISSUE	29.08.23

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ARCHITECT: iwolff

PROJECT

PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

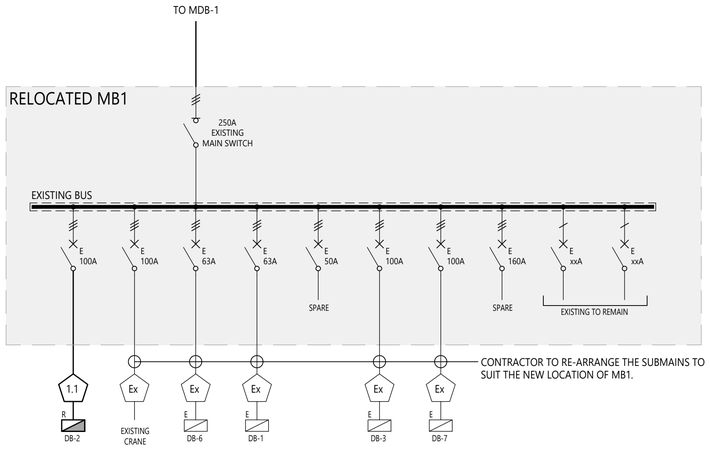
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DRAWING TITLE

ELECTRICAL SERVICES
SCHEMATIC DRAWINGS 1

SCALE	NTS	DATE	Sep-23	DRAWN	JD	PROJECT NO.	30019108
SHEET SIZE	A1	DESIGNED	JI	CHECKED	SJ	DRAWING NO.	E400

REVISION P1



MB1 CABLE SCHEDULE

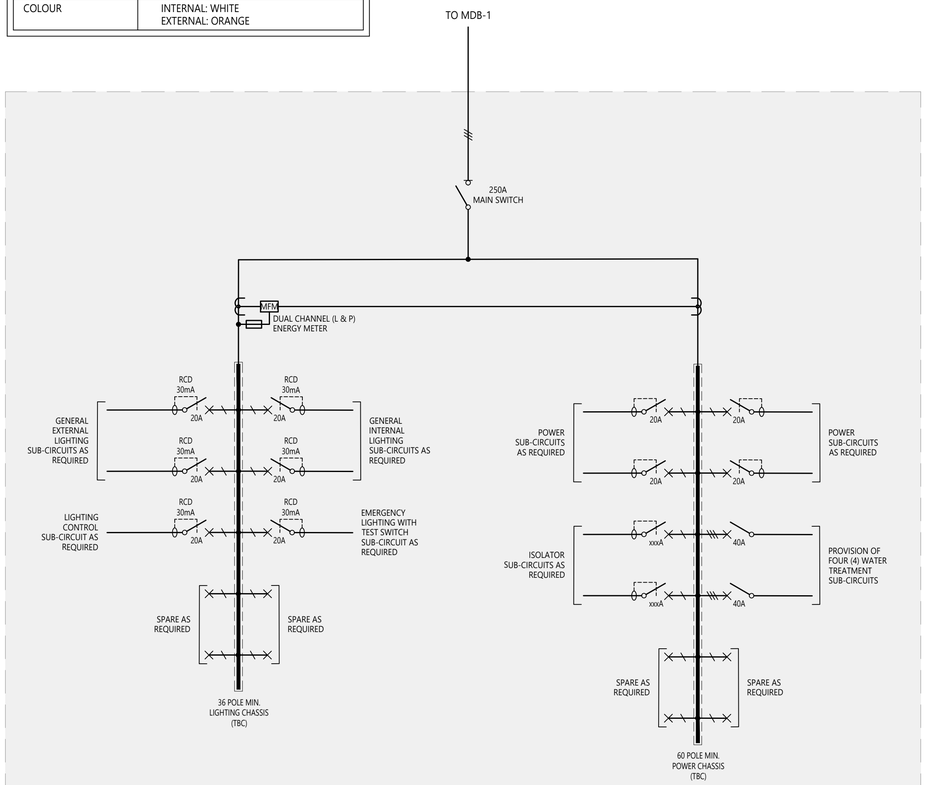
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CABLE NO.	STATUS	NO. OF PHASE	CABLE CRITERIA							
			CONFIGURATION	ACTIVE	NEUTRAL	EARTH	INSULATION	CONDUCTOR	LENGTH (m) (APPROXIMATE)	INSTALLATION
1.1	NEW	3	4 x 1C + E	50mm²	50mm²	16mm²	XLPE (X-90)	CU	80	IN CONDUIT

1 E401 INDICATIVE EXISTING MB1 SCHEMATIC DIAGRAM

NTS

DB-9	
LOCATION	COMPARTMENT 2
CONSTRUCTION	AS/NZS 61439, AS/NZS 3000
CABLE ENTRY / EXIT	TOP / TOP, BOTTOM
MATERIAL	MINIMUM 1.6mm SHEET STEEL
DOOR	LOCKABLE
MOUNTING	WALL MOUNTED
RATING	250A, 400V, 50Hz
FAULT RATING	25kA FOR 1 SECOND
FORM OF SEPARATION	FORM 1
PROTECTION RATING	IP56 TO AS1939
FINISH	POWDER COATED
COLOUR	INTERNAL: WHITE EXTERNAL: ORANGE



2 E401 INDICATIVE DB-9 SCHEMATIC DIAGRAM

NTS

REV	DESCRIPTION	DATE
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CLIENT: DEGNAN HI-QUALITY GROUP

ARCHITECT: iwolff

PROJECT

PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

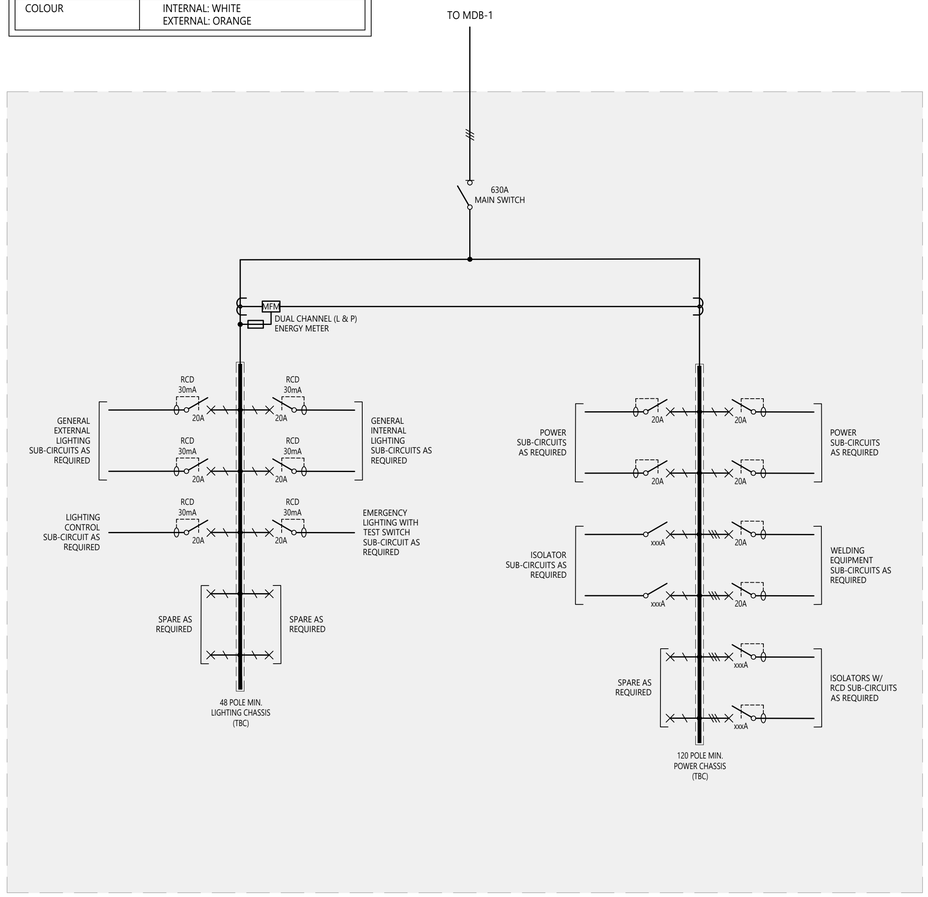
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DRAWING TITLE

ELECTRICAL SERVICES
SCHEMATIC DRAWINGS 2

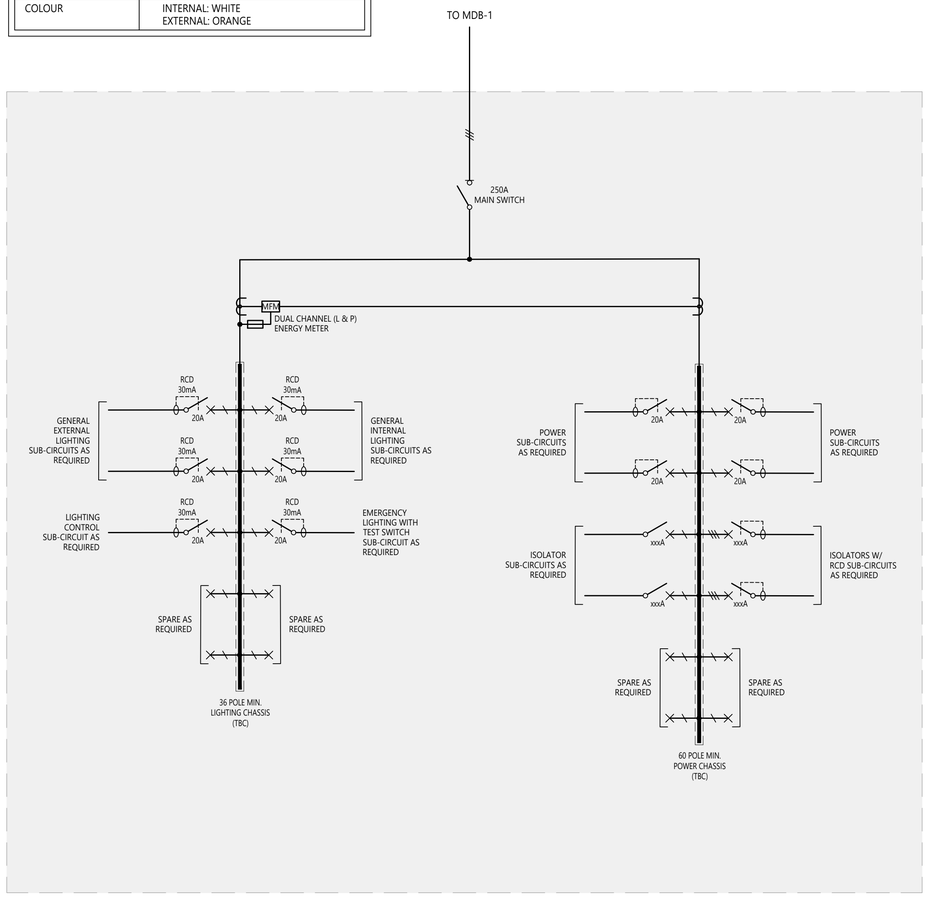
SCALE	NTS	DATE	Aug-23	DRAWN	JD	PROJECT NO.	30019108	REVISION
SHEET SIZE	A1	DESIGNED	JI	CHECKED	SJ	DRAWING NO.	E401	P1

DB-W	
LOCATION	COMPARTMENT 1
CONSTRUCTION	AS/NZS 61439, AS/NZS 3000
CABLE ENTRY / EXIT	TOP / TOP, BOTTOM
MATERIAL	MINIMUM 1.6mm SHEET STEEL
DOOR	LOCKABLE
MOUNTING	WALL MOUNTED
RATING	630A, 400V, 50Hz
FAULT RATING	25kA FOR 1 SECOND
FORM OF SEPARATION	FORM 1
PROTECTION RATING	IP56 TO AS1939
FINISH	POWDER COATED
COLOUR	INTERNAL: WHITE EXTERNAL: ORANGE



1 E402 INDICATIVE DB-W SCHEMATIC DIAGRAM
NTS

DB-10	
LOCATION	COMPARTMENT 3
CONSTRUCTION	AS/NZS 61439, AS/NZS 3000
CABLE ENTRY / EXIT	TOP / TOP, BOTTOM
MATERIAL	MINIMUM 1.6mm SHEET STEEL
DOOR	LOCKABLE
MOUNTING	WALL MOUNTED
RATING	250A, 400V, 50Hz
FAULT RATING	25kA FOR 1 SECOND
FORM OF SEPARATION	FORM 1
PROTECTION RATING	IP56 TO AS1939
FINISH	POWDER COATED
COLOUR	INTERNAL: WHITE EXTERNAL: ORANGE



2 E402 INDICATIVE DB-10 SCHEMATIC DIAGRAM
NTS

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PROJECT
PRESTONS WASTE TREATMENT FACILITY
9 WHYALLA PL, PRESTONS, NEW SOUTH WALES

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DRAWING TITLE
ELECTRICAL SERVICES
SCHEMATIC DRAWINGS 3

SCALE	NTS	DATE	Sep-23	DRAWN	JD	PROJECT NO.	30019108	REVISION
SHEET SIZE	A1	DESIGNED	JI	CHECKED	SJ	DRAWING NO.	E402	P1