

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH:

CIVIL WORK DRAWINGS BY **GASSMAN DEVELOPMENT PERSPECTIVES**,
VANTAGE YATALA STAGE 3 DRAWING NO.:
5941 ENG CW3 630 REV B, DATE: 06/11/2023

MANHOLE SLAB TO BE FOUNDED INTO NATURAL STIFF CLAY PROFILE 'OR
WEATHERED ROCK PROFILE WITH 100kPa MIN. BEARING CAPACITY. DESIGN
ENGINEER TO BE CONTACTED IF OTHERWISE.

GENERAL NOTES:

1. ROOF SLAB DESIGNED FOR WB80 LOADING.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
3. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE DRAWINGS SHALL NOT BE SCALED.
4. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
5. HYDROTITE JOINT SEALANT DSS-0220-AD OR APPROVED EQUIVALENT TO BE USED WHEN NO FLANGE SPECIFIED ON PIPE (OTHER THAN POLYPROPYLENE PIPE) OR WHERE NOT OTHERWISE SPECIFIED.
6. LIFTING ANCHORS TO BE SWIFTLIFT OR APPROVED EQUIVALENT, 1.8 TONNE GALVANISED TO AS/NZS 4680 AND FITTED TO MANUFACTURER'S SPECIFICATION.
7. FOR CHANGES IN PIPE LEVEL, REFER SEQ-SEW-1303-1. ONLY 'V' DROPS OR APPROVED INTERNAL VORTEX DROPS PERMITTED FOR SEWERS LARGER THAN DN300. TYPE 'V' DROPS WITH PIPE DN CHANGES SHALL BE GRADED OBVERT TO OBVERT.
8. FOR PE LINING REFER TO SEQ-SPS-1407 DRAWING SET FOR CONSTRUCTION DETAILS

DESIGN DATA:

1. BACKFILL MATERIAL SHALL BE UNIFORMLY COMPACTED AS PER SEQ SPECS, DRAWING SEQ-SEW-1300-1 (C).
2. BACKFILL INTERNAL FRICTION ANGLE: 26°
3. BACKFILL SOIL DENSITY: ≤ 18 kN/m³
4. LIVE LOAD SURCHARGE: 10 kPa

CONCRETE NOTES:

1. MINIMUM EXPOSURE CLASSIFICATION B2.
2. CONCRETE TO BE GRADE S40MPa/20 IN ACCORDANCE WITH AS/NZS 1379 AND AS 3600.
3. EDGES SHALL BE CHAMFERED 20x20mm ABD RE-ENTRANT ANGLES FILLETED 20x20mm.
4. BLINDING CONCRETE TO BE GRADE N20 MPa/20.
5. COVER TO STEEL REINFORCEMENT TO BE 50mm U.N.O
6. BENCHING AS PER SEQ-SEW-1302-1
7. INTERNAL CORROSION COATING (PE LINER) TO BE MECHANICALLY ANCHORED TYPE TO ALL MAINTENANCE HOLES AS PER CLAUSE 18.8 OF SEQ D&C CODE.

REINFORCEMENT NOTES:

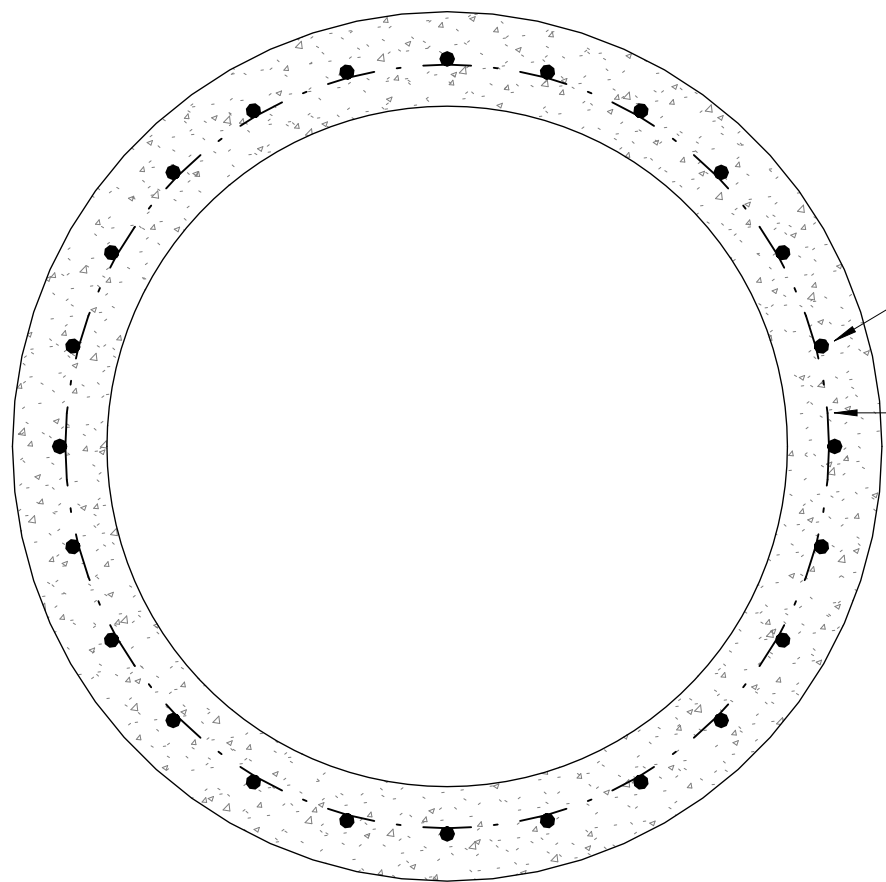
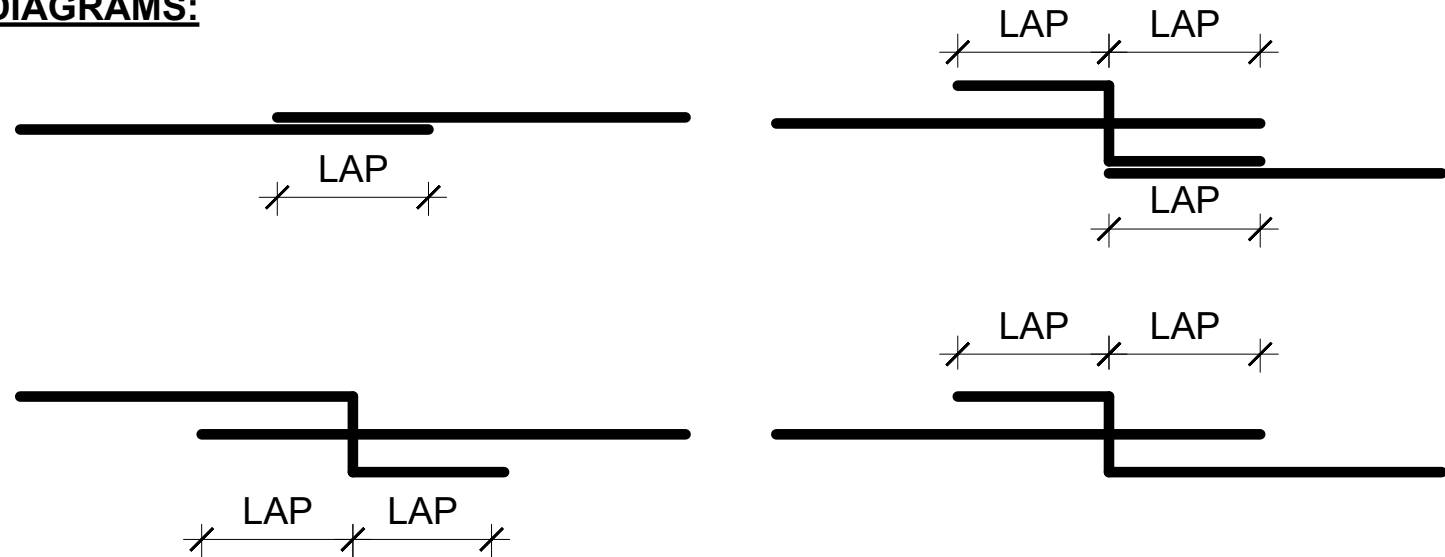
1. REINFORCEMENT TO BE GRADE D500N TO AS/NZS 4671 AND ARCS CENTERED.
2. ALL COGS SHALL BE MINIMUM OF 300 U.N.O.
3. REINFORCING MESH TO AS/NZS 4671.

FULL STRENGTH LAPS FOR SLAB AND BEAM BARS

BAR Ø	LENGTH (mm) - SEE DIAGRAMS BELOW	
	BAR WITH ≤ 300mm DEPTH OF CONCRETE BELOW THE BAR	BAR WITH > 300mm DEPTH OF CONCRETE BELOW THE BAR
N10	300	400
N12	400	500
N16	700	800
N20	1000	1200
N24	1400	1700
N28	1700	2200

BARS IN SLABS MAY BE STOCK LENGTHS WITH FULL STRENGTH STAGGERED LAPS. (SUBJECT TO APPROVAL FROM THE STRUCTURAL ENGINEER)

DIAGRAMS:

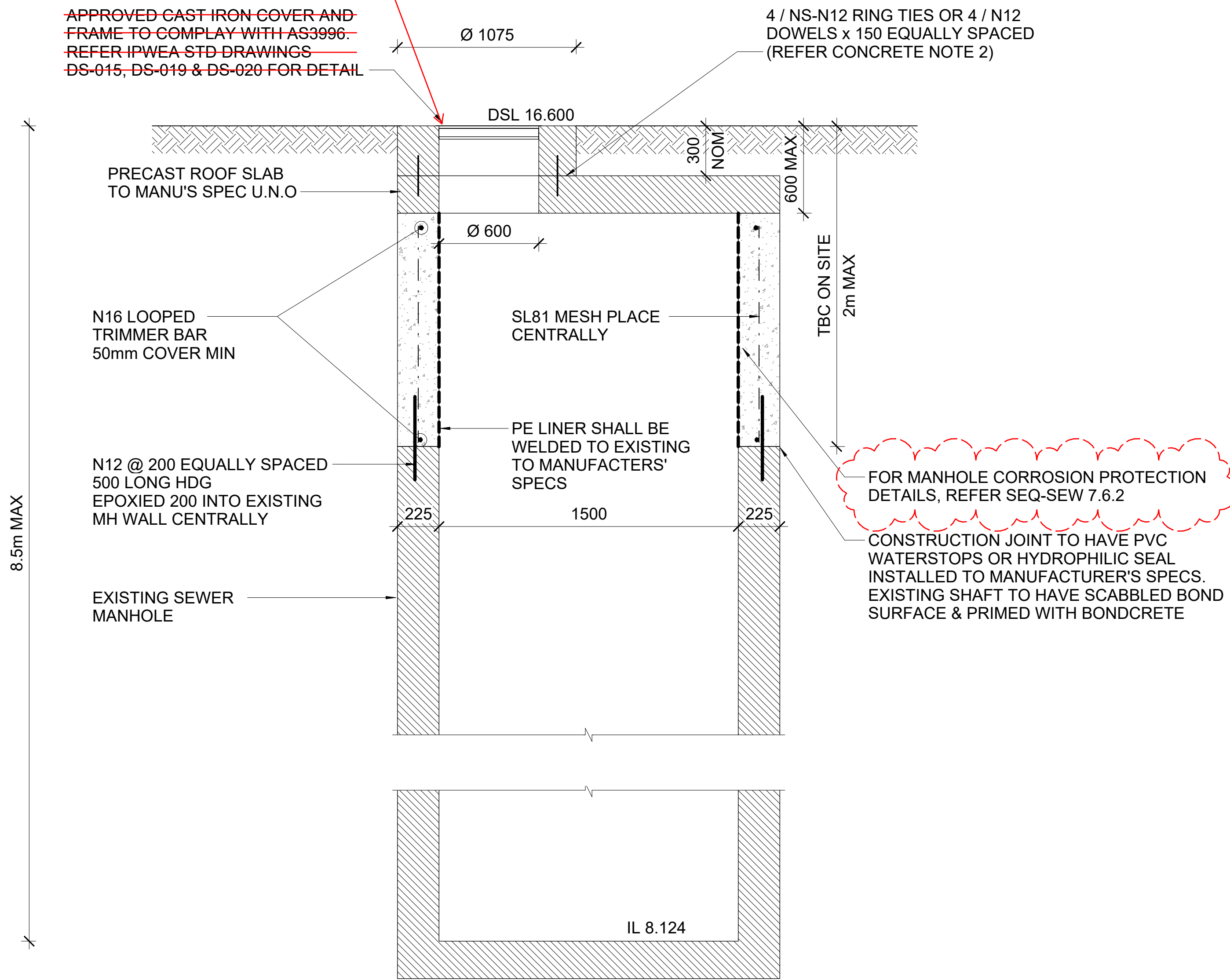


MH S24/5 - 1500 DIA PLAN VIEW

SCALE: 1 : 20

COVER AND FRAME TO BE APPROVED
COMPOSITE MATERIAL IN
ACCORDANCE WITH IPAM LIST ROW
#334 & WSAA GRAVITY SEWERAGE
CODE OF AUSTRALIA - SEQ EDITION -
SECTION 7.6.2 & D2

~~APPROVED CAST IRON COVER AND
FRAME TO COMPLY WITH AS3996.
REFER IPWEA STD DRAWINGS
DS-015, DS-019 & DS-020 FOR DETAIL~~



SEWER MH S24/5 - 1500 DIA EXTENSION DETAIL

SCALE: 1 : 20

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2026/923

Dated: 2 September 2026

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

Client



NHAT MINH TRINH
CPEng NER RPEQ 30835
14/08/2026

[Signature]



p: 1300 742 004 e: admin@ptgconsulting.com

1. This is the property of the engineer and may not be used, copied or reproduced wholly or in part without the express permission of the engineer.
2. Figured dimension take precedence over scale.
3. Verify all dimensions on site.

Project
**VANTAGE YATALA STAGE 3
SEWER MH EXTENSION**
LOT 504 / SP329485
HOMESTEAD DRIVE,
STAPYLTON QLD 4207

Drawing Title

SEWER MANHOLE EXTENSION

Drawn

NT

Date

21/04/2026

Scale @

As indicated

A1

(1:2x @ A3)

Checked

NT

Project No.

PTG/03789-J/37

Dwg No.

100

Issue

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