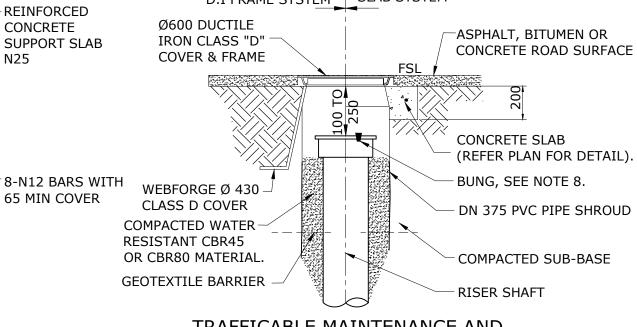
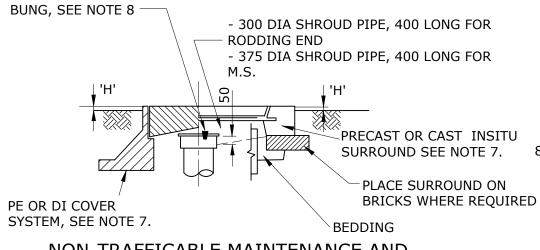


# D.I FRAME SYSTEM | SLAB SYSTEM



# TRAFFICABLE MAINTENANCE AND RODDING SHAFT SURROUND DETAILS



NON-TRAFFICABLE MAINTENANCE AND RODDING SHAFT SURROUND DETAILS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

### SELECTION OF DN600 MH COVERS

### ALL COVERS TO BE WATER TIGHT, SEE NOTE 6

LOCATION	CLASS
RESERVES, ALLOTMENTS, FOOTPATHS, VERGES	B - NON-TRAFFICABLE
ROADWAYS & DRIVEWAYS	D - TRAFFICABLE
LOCATIONS SUBJECT TO Q100 FLOODING AND SURCHAGE	CLASS B OR D WITH BOLT-DOWN (SEE NOTE 3)

#### NOTES:

- 1. ALL DIMENSIONS IN MILLIMETRES.
- 2. SEALING METHODS FOR COVER-FRAME SURROUND TO **WALLS** 
  - (a) MAKE JOINTS BETWEEN SHAFT TOP/MAKE-UP RING AND COVER SUPPORT RING USING BUTYL-MASTIC OR RUBBER RING.
  - (b) APPLY BUTYL-MASTIC OR RING IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.
- (c) FOLLOWING (b) ABOVE, APPLY EXTERNALLY 4X100 LONG SECTIONS OF 'MEGAPOXY P1' OR EQUAL TO PRECAST SURROUND/RING JOINT TO REINFORCE JOINT.
- 3. IN AREAS SUBJECT TO Q100 FLOODING AND SURCHARGE, USE CAST IN-SITU MH WITH ANCHOR BRACKETS SO THAT SEPARATION DURING SURCHARGE IS PREVENTED. SEE SEQ-SEW-1307-1.
- 4. MAXIMUM PERMISSIBLE SLOPE OF COVERS: CLASS "B" 1 IN 4 CLASS "D" 1 IN 10
- 5. COVERS AND FRAMES, REFER CODE.
- 6. CAST IN-SITU AND ALL CLASS D COVERS AND FRAMES SHALL BE TYPE 'd' WATERSEALED SOLID TOP IN ACCORDANCE WITH CLAUSE 1.5.3.1 OF AS3996.
- 7. a.) STORMWATER PRECAST SURROUND, FRAME & LID MAY BE USED FOR ALL NON CARRIAGEWAY LOCATIONS EXCEPT THAT THE DI COVER SHALL BE MARKED FOR SEWERAGE PURPOSES.
- b.) SMARTSTREAM TOP HAT OR WEBFORGE CLASS 'B' COVER #DCC3B22 ALTERNATIVES TO SHROUD PIPE SYSTEM FOR NON TRAFFICABLE.
- c.) DUCTILE IRON COVERS SHALL BE EITHER 600mm OR 430mm DIAMETER AT CLASS "D" FOR ROAD CARRIAGE WAY INSTALLATION AND AT CLASS "B" FOR ALL OTHER LOCATIONS.
- 8. LOCK DOWN QUICK RELEASE END CAPS SHALL BE SEALED BY A RUBBER RING, SCREW DOWN CAPS ARE NOT PERMITTED. PRIOR TO ON-MAINTENANCE, ALL M.S. END CAPS SHALL BE PROVIDED WITH 20-25MM DIA. RUBBER BUNGS IN 20MM DRILL HOLE. CONTRACTOR TO DRILL HOLE AND FIT BUNG FOLLOWING PRESSURE TEST PASS.

LCC

NOT TO SCALE

**GCCC** 

REV. No.	DATE	DESCRIPTION	AUTH.

OTHER AS SPECIFIED (EG ABOVE Q100 FLOOD LEVEL)

ROADS, LANE WAYS, FOOTWAYS & DRIVEWAYS

2000 COLLECTOR STREET

1500 ACCESS STREET

*IRENCH WIDTH* 

LOCATION

**UNDEVELOPED AREAS** 

**NEW SUBDIVISIONS** 

**EXISTING DEVELOPED AREAS** 

CENTRELINE

CARRIAGEWAY

ROAD (

300 MIN

Ы

**SEWER** 

CLASS D

**PLAN** 

**DIMENSION 'H'** 

FINISHED LEVELS OF MH COVERS

TRAFFICABLE

N25

Н

300

50

**FLUSH** 

25

MIN

**SEQ WATER** SERVICE PROVIDERS

TYPICAL MAINTENANCE HOLE COVER AND SURROUND DETAIL

SEWERAGE STANDARD DRAWING

DRAWING No. SEQ-SEW-1308-1

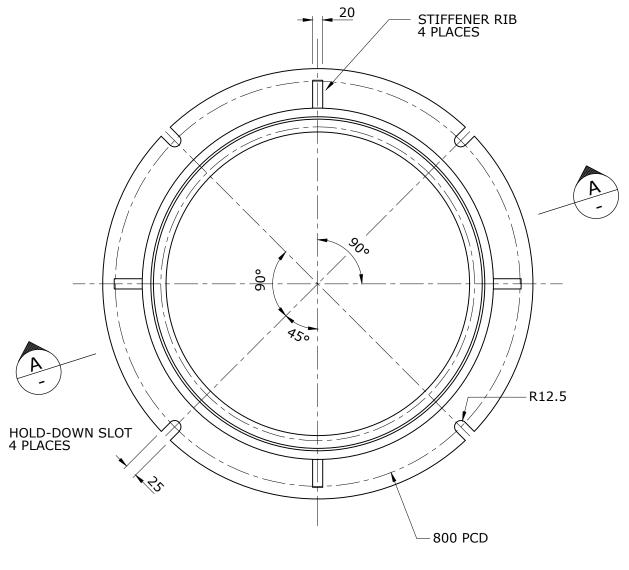
**RCC** 

DART

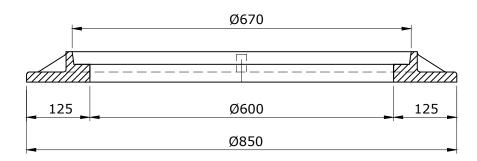
Α ORG DATE 1/1/2013

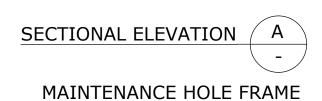
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VERSION



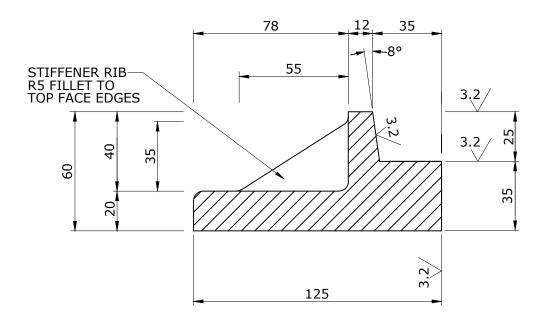
## **PLAN**





MASS: 59.5KG

FOR USE IN NON TRAFFICABLE LOCATIONS



### TYPICAL SECTION

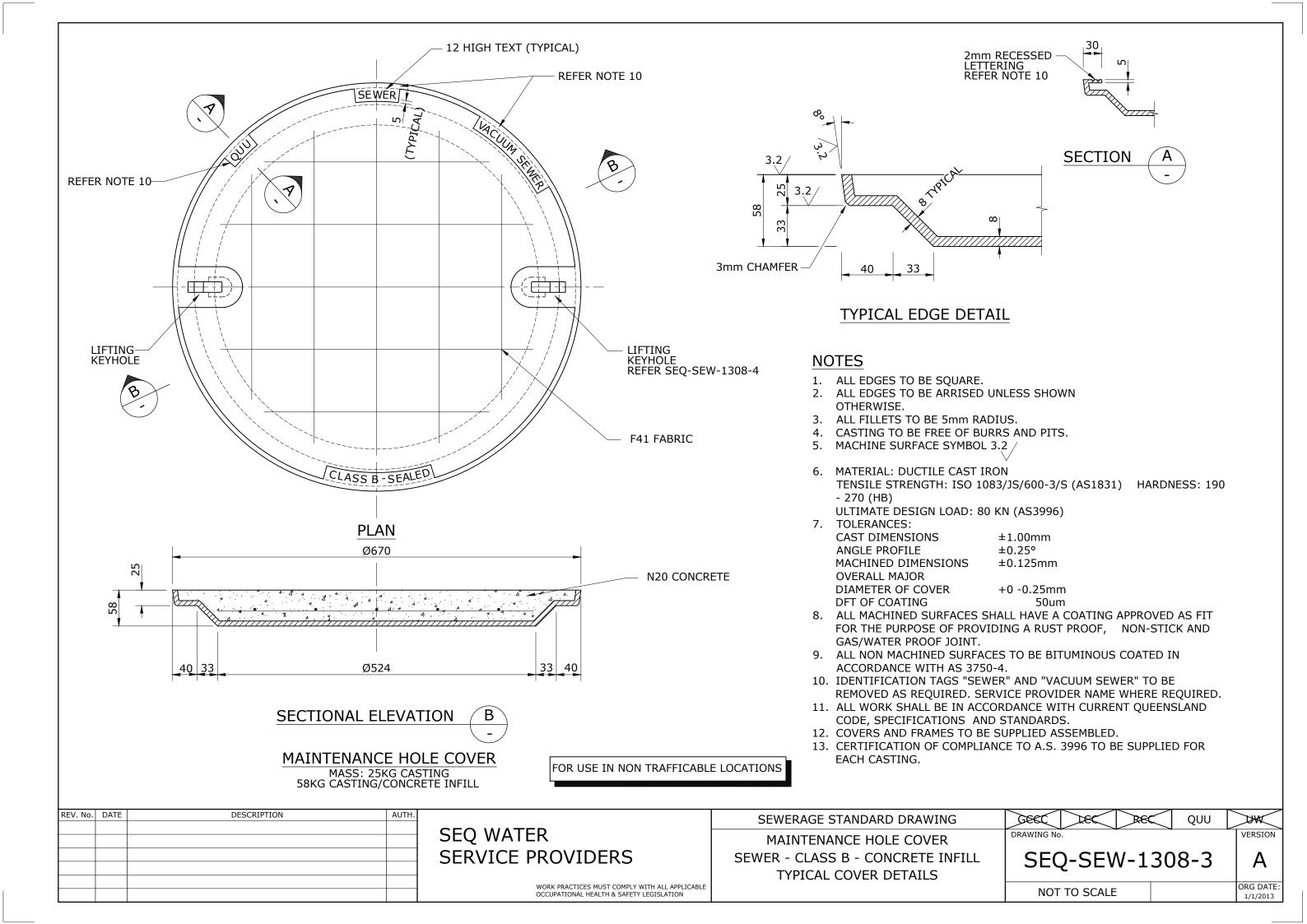
#### NOTES

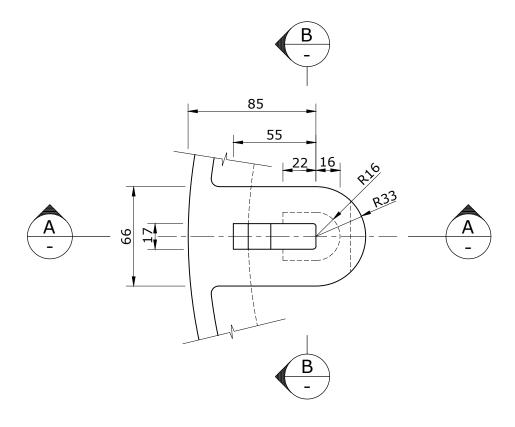
- 1. ALL EDGES TO BE SQUARE.
- 2. ALL EDGES TO BE ARRISED UNLESS SHOWN OTHERWISE.
- 3. ALL FILLETS TO BE 5mm RADIUS UNLESS SHOWN OTHERWISE.
- 4. CASTING TO BE FREE OF BURRS AND PITS.
- 5. MACHINE SURFACE SYMBOL 3.2 /
- 6. MATERIAL: GREY CAST IRON (AS1830) TENSILE STRENGTH: ISO 185/JL/225 HARDNESS: 145 - 215 (HB) ULTIMATE DESIGN LOAD: 210 KN (AS3996)
- 7. TOLERANCES:

CAST DIMENSIONS ±1.00mm
ANGLE PROFILE ±0.25°
MACHINED DIMENSIONS ±0.125mm
OVERALL MAJOR
DIAMETER OF COVER +0 -0.25mm
DFT OF COATING 50um

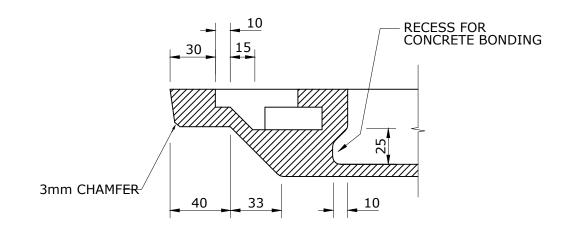
- 8. ALL MACHINED SURFACES SHALL HAVE A COATING APPROVED AS FIT FOR THE PURPOSE OF PROVIDING A RUST PROOF, NON-STICK AND GAS/WATER PROOF JOINT.
- 9. ALL NON MACHINED SURFACES TO BE BITUMINOUS COATED IN ACCORDANCE WITH AS 3750-4.
- 10. ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT QUEENSLAND CODE, SPECIFICATIONS AND STANDARDS.
- 11. COVERS AND FRAMES TO BE SUPPLIED ASSEMBLED.
- 12. CERTIFICATION OF COMPLIANCE TO A.S. 3996 TO BE SUPPLIED FOR EACH CASTING.

REV. No.	DATE DESCRIPTION	AUTH.		SEWERAGE STANDARD DRAWING	GEEC DEC REC QUU	
			SEQ WATER	MAINTENANCE HOLE COVER	DRAWING No.	VERSION
			SERVICE PROVIDERS	SEWER - CLASS B - CONCRETE INFILL	SEO-SEW-1308-2	$\mid A \mid$
				TYPICAL FRAME DETAILS		' '
			WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION		NOT TO SCALE	ORG DATE: 1/1/2013



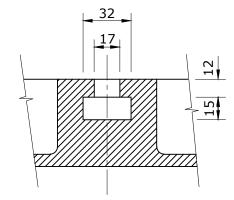


# <u>PLAN</u>





KEYHOLE DETAIL

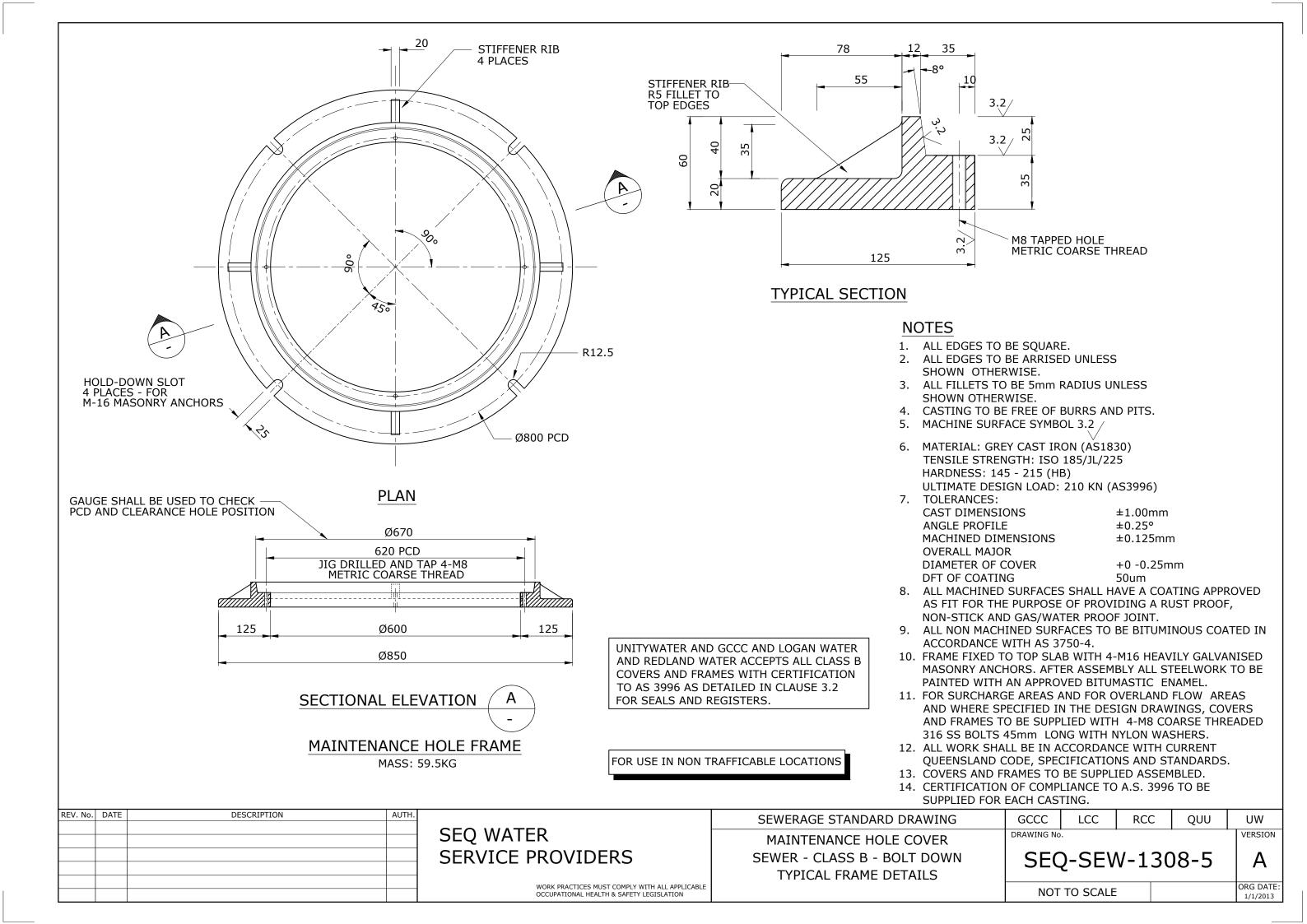


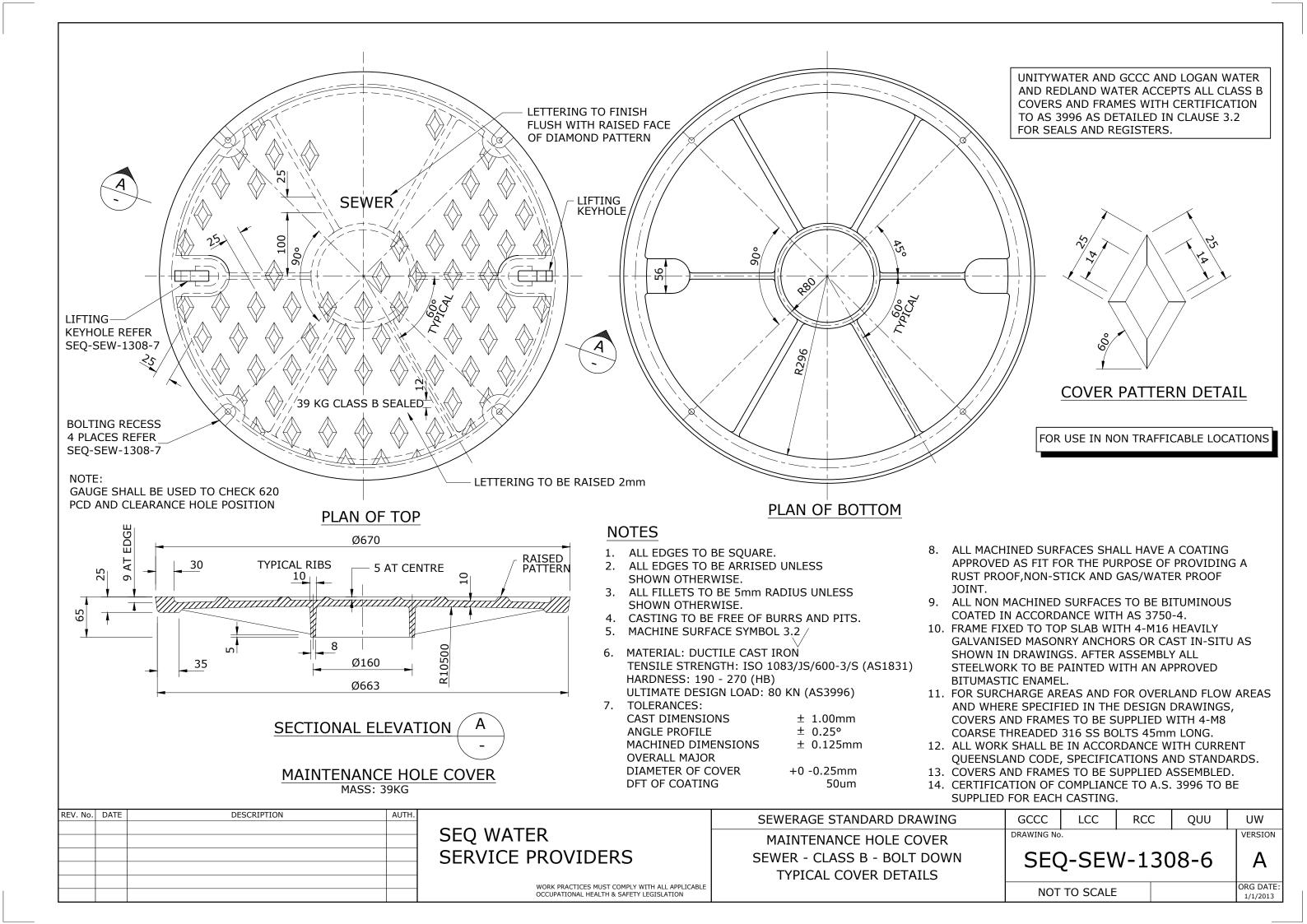


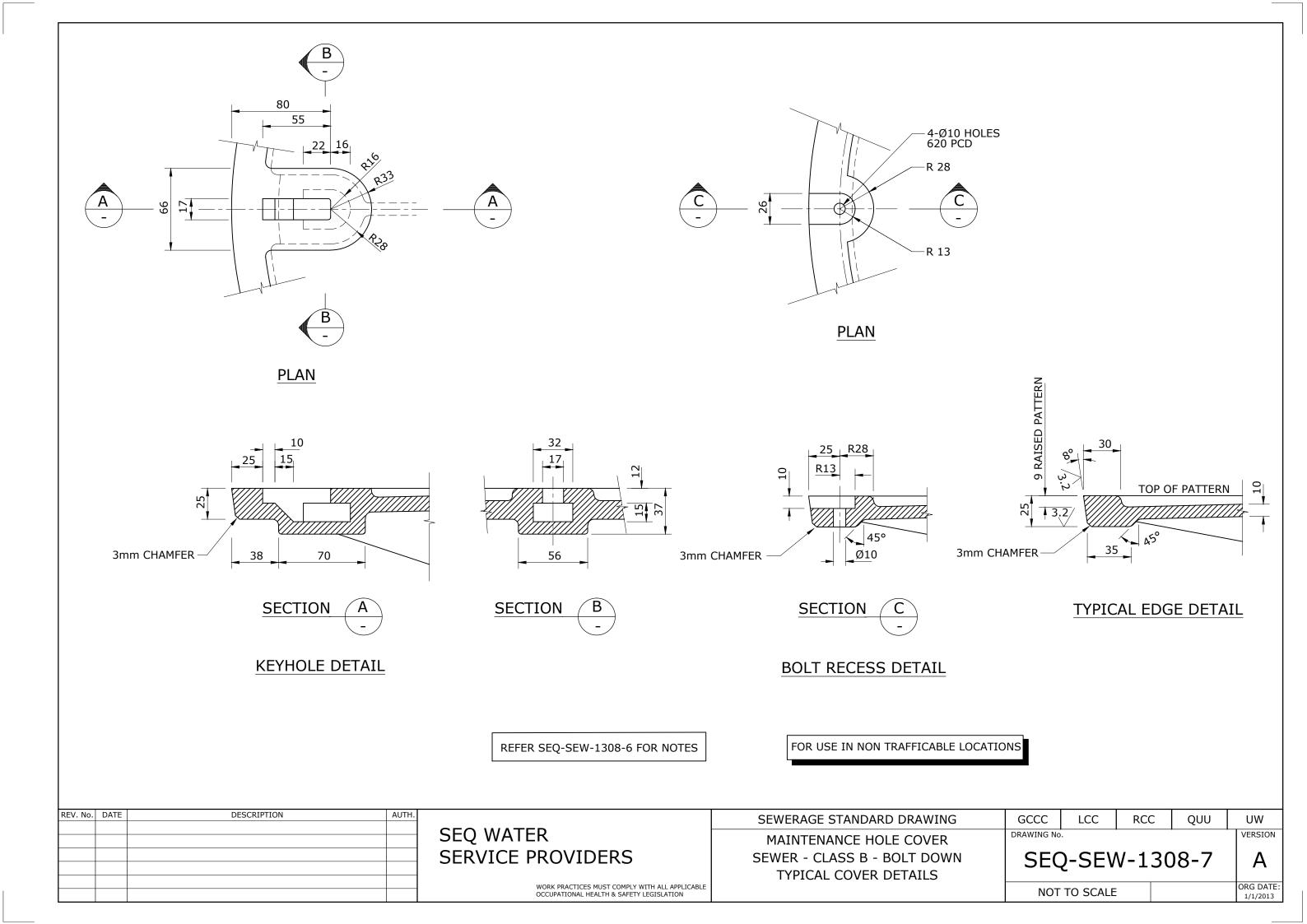
REFER SEQ-SEW-1308-3 FOR NOTES

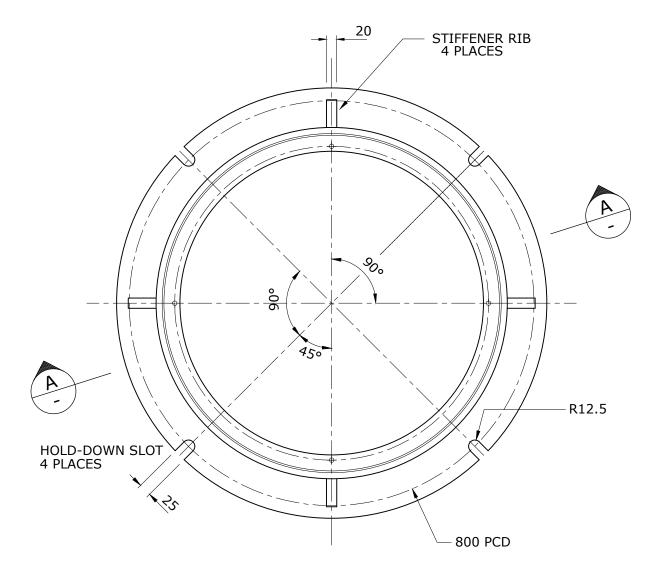
FOR USE IN NON TRAFFICABLE LOCATIONS

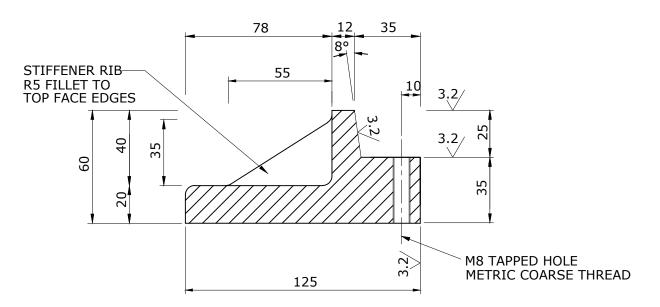
REV. No.	DATE DESCRIPTION /	AUTH.		SEWERAGE STANDARD DRAWING	GEEC DEC QUU	) WK
			SEQ WATER	MAINTENANCE HOLE COVER	DRAWING No.	VERSION
			SERVICE PROVIDERS	SEWER - CLASS B - CONCRETE INFILL	SEO-SEW-1308-4	$\mid A \mid$
				TYPICAL LIFTING HOLE DETAILS		
			WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION		NOT TO SCALE	ORG DATE: 1/1/2013











#### TYPICAL SECTION

#### **NOTES**

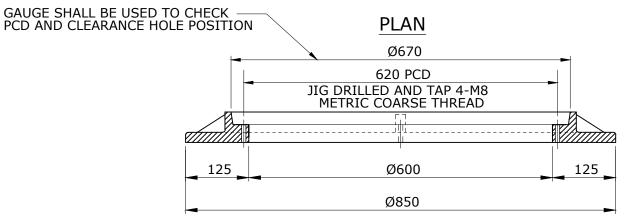
- ALL EDGES TO BE SQUARE.
   ALL EDGES TO BE ARRISED UNLESS SHOWN OTHERWISE.
- 3. ALL FILLETS TO BE 5mm RADIUS UNLESS SHOWN OTHERWISE.
  4. CASTING TO BE FREE OF BURRS AND PITS.
  5. MACHINE SURFACE SYMBOL 3.2

- 6. MATERIAL: GREY CAST IRON (AS1830)
  TENSILE STRENGTH: ISO 185/JL/225
  HARDNESS: 145 215 (HB)
  ULTIMATE DESIGN LOAD: 210 KN (AS3996)

7. TOLERANCES: CAST DIMENSIONS 1.00mm 0.25° ANGLE PROFILE MACHINED DIMENSIONS ± 0.125mm **OVERALL MAJOR** +0 -0.25mm 50um DIAMETER OF COVER DFT OF COATING

- 8. ALL MACHINED SURFACES SHALL HAVE A COATING APPROVED AS FIT FOR THE PURPOSE OF PROVIDING A RUST PROOF, NON-STICK AND GAS/WATER PROOF JOINT. ALL NON MACHINED SURFACES TO BE
- BITUMINOUS COATED IN ACCORDANCE WITH AS 3750-4.
- 10. COVERS, FRAMES AND 60mm RISER RINGS TO BE SUPPLIED ASSEMBLED. 11. ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT QUEENSLAND CODE, SPECIFICATIONS AND STANĎARD DRAWINGS.
- 12. CERTIFICATION OF COMPLIANCE TO A.S. 3996 TO BE SUPPLIED FOR EACH CASTING.

**GCCC** 



UNITYWATER AND GCCC AND LOGAN WATER AND REDLAND WATER ONLY ACCEPTS THIS CLASS D FRAME, RISER AND COVER SYSTEM OR EQUAL WITH CERTIFICATION TO AS 3996.

FOR USE IN TRAFFICABLE ROADWAY LOCATIONS. THIS BASE FRAME SHALL BE USED WITH THE 60 RISER RING SHOWN IN SEQ-SEW-1308-9.

# SECTIONAL ELEVATION

# MAINTENANCE HOLE BASE FRAME

MASS: 59.5KG

DESCRIPTION REV. No. DATE AUTH.

**SEQ WATER** SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

SEWERAGE STANDARD DRAWING MAINTENANCE HOLE COVER SEWER - CLASS D - BOLT DOWN

DRAWING No. SEQ-SEW-1308-8

LCC

ORG DATE NOT TO SCALE 1/1/2013

RCC

VERSION

TYPICAL BASE FRAME DETAILS

