

Drainage

Access Chamber Roof Slabs DIA 1050 - 1500

Access Chamber Roof Slabs EXTENDED 600 and 900

Access Chamber Roof Slabs RECTANGULAR

Access Chamber Cast Iron Cover and Frame C.I. Concrete Filler Cover

Access Chamber Cast Iron Cover and Frame Bolt Down

Excavation, Bedding and Backfilling of Concrete / Fibre Reinforced Drainage Pipes

Excavation, Bedding and Backfilling of Precast Box Culverts

Standard - Gully Trap Precast Headstone (Faston Grate) for Barrier & Mountable Kerb & Channel

Concrete Gully C-M Concrete RGU – Recessed Type Roadway Type Precast Inlet Units

Drainway Stormwater Inlet Components

Drainway Stormwater Inlet Cast Iron Grate, Cover & Frame

Drainway Stormwater Inlet Construction Setting Out Barrier/Mountable Kerb & Channel

Gully - Anti-Ponding Depressed 17mm

Precast Concrete Gully Pit BROPIT Gully System General Arrangement Product Details

Precast Concrete Gully Pit BROPIT Gully System Extended Chamber Product Details

Precast Concrete Gully Pit BROPIT Gully System Manhole Cover Product Details

Precast Concrete Gully Pit BROPIT Gully System Trough Product Details

Precast Concrete Gully Pit BROPIT Gully System Trough Ends Product Details

Standard Gully Pit (Field Type)

R.C.P. Pipe Culverts Precast Concrete Headwall 45° Wingwalls Product Details

Roofwater Inspection Chamber

Kerb & Channel Anti-Ponding Stormwater Mini Pit

Concrete Strip Footpaths

Bikepath Slowdown Control Reverse Curve

Bikepath Pavement Joints

Bikepath Entrance to Road Reserves

Bikepath Slowdown Control Z Chicane

Bikepath Slowdown Control Offset Chicane

Erosion Control Sediment Trap & Sediment Fence

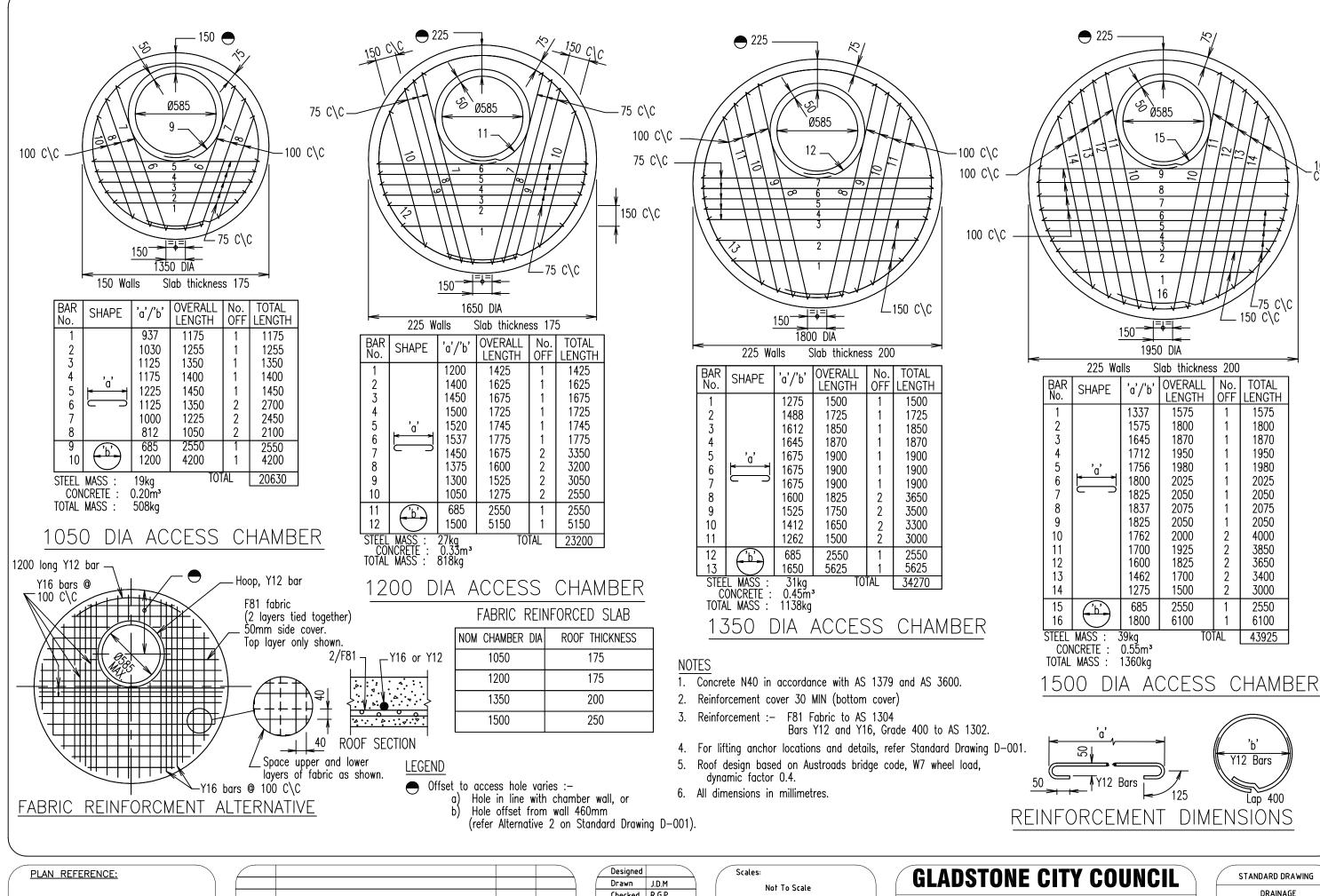
Erosion Control Inlet Sediment Traps, Straw Bale Traps & Banks, Check Dams

Pedestrian Foot Bridge

Bubbler System for Stormwater Dispersal

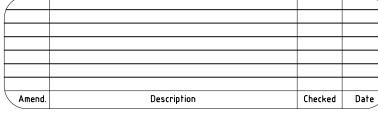


Contents Page

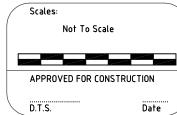


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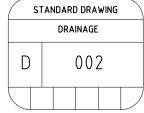
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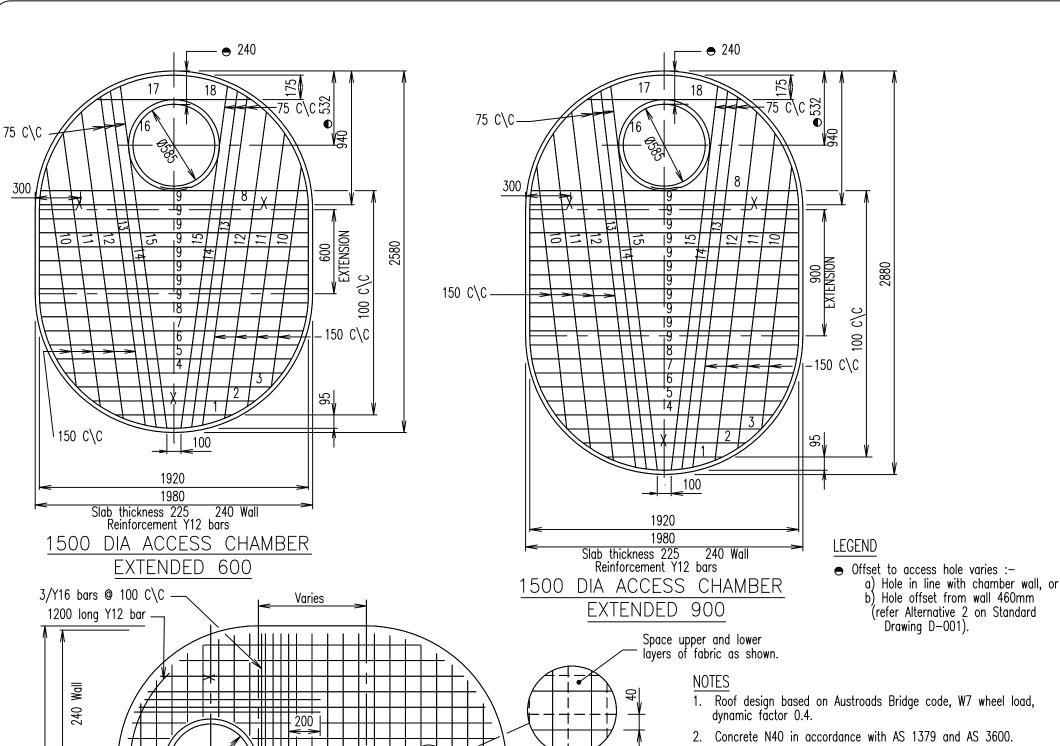


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ACCESS CHAMBER ROOF SLABS DIA 1050 - 1500





1500 DIA ACCESS CHAMBER EXTENDED 600

BAR NO. SHAPE LENGTH NO. OFF TOTAL 835 835 1160 1160 1385 1385 1550 1550 1680 1680 1775 1775 1845 1845 1890 2 3780 9 1920 8 15360 10 1560 2 2 2 2 3120 1920 3840 11 12 2170 4340 13 2300 4600 2375 2 14 4750 2450 4900 15 2550 16 2550 17 7195 7195 1105 1105 18 59 kg 0.90 m³ 2250 kg Steel Mass 65770 TOTAL LENGTH Concrete Volume

1500 DIA ACCESS CHAMBER

EXTENDED 900

BAR NO.	SHAPE	LENGTH	NO. OFF	TOTAL
1		835	1	835
2		1160	1	1160
3		1385	1	1385
4		1550	1	1550
5		1680	1	1680
6		1775	1	1775
7		1845	1	1845
8		1890	2	3780
9		1920	11	21120
10		1800	2	3600
11		2200	2	4400
12		2470	2	4940
13		2650	2 2	5300
14		2700		5400
15		2750	2	5500
16	0	2550	1	2550
17		7795	1	7795
18		1105	1	1105
Steel Mass	67 kg e 1.03 m³	TOTA	LENGTH	75720
Concrete Volum Total Mass	e 1.03 m³ 2575 kg			

- 1. Roof design based on Austroads Bridge code, W7 wheel load,
- 2. Concrete N40 in accordance with AS 1379 and AS 3600.
- 3. Reinforcement cover 30 MIN (bottom face).
- Reinforcement: F81 Fabric to AS 1304 Bars Y12 and Y16, Grade 400 to AS 1302.
- 5. Refer Standard Drawing D-002 for 'reinforcement dimensions'.
- 6. Lifting anchors to be "swiftlift" or equivalent. 1.8 tonne, galvanized to AS 1650 and fitted to manufacturer's specification at points shown 'X'.
- 7. Lifting capacity of mechanical devices to be no less than 4 tonnes.
- 8. All dimensions in millimetres.

PLAN REFERENCE:

250

thickness

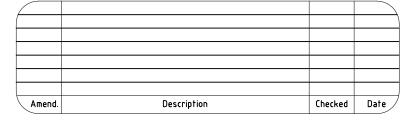
Slab

2/Y16 bars @ 100 C\C

FABRIC REINFORCING DETAIL

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NOTE: MINOR MODIFICATIONS TO THIS DRAWING HAVE BEEN MADE TO SUIT COUNCIL REQUIREMENTS.



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.40

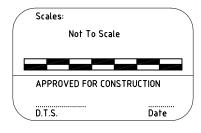
ROOF SECTION

_Y16 or Y12

2/F81

F81 fabric (2 layers tied together

50mm side cover. Top layer only



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ACCESS CHAMBER ROOF SLABS EXTENDED 600 AND 900

Total Mass

ST	STANDARD DRAWING						
	DRAINAGE						
D	003						

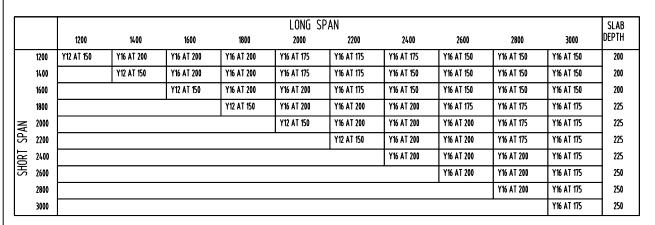
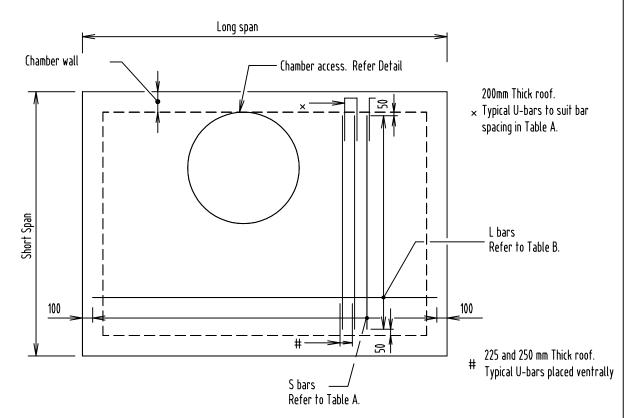
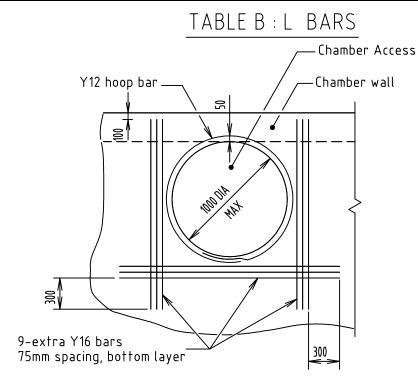


TABLE A: S BARS

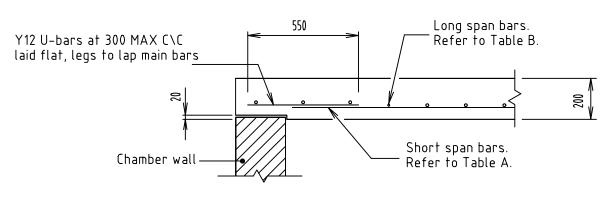
		LONG SPAN							SLAB			
		1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	DEPTH
	1200	Y12 AT 150	Y12 AT 200	200								
	1400		Y12 AT 150	Y12 AT 200	200							
	1600			Y12 AT 150	Y12 AT 150	Y12 AT 200	200					
	1800				Y12 AT 150	Y12 AT 150	Y12 AT 200	225				
SPAN	2000				•	Y12 AT 150	Y12 AT 150	Y12 AT 200	Y12 AT 200	Y12 AT 200	Y12 AT 200	225
5	2200						Y12 AT 150	Y12 AT 150	Y12 AT 150	Y12 AT 200	Y12 AT 200	225
SEST	2400	Y16 AT 200 Y12 AT 150 Y16 AT 150						Y16 AT 150	225			
丢	2600	Y16 AT 200 Y16 AT 200 Y16 AT 20						Y16 AT 200	250			
	2800								•	Y16 AT 200	Y16 AT 200	250
	3000									-	Y16 AT 175	250

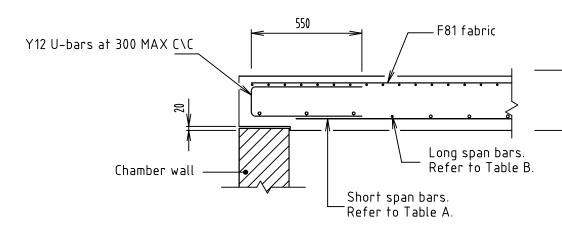


TYPICAL SLAB REINFORCEMENT



SLAB REINFORCEMENT AROUND CHAMBER ACCESS





<u>NOTES</u>

- 1. Concrete N32/20 in accordance with AS 1379 and AS 3600.
- 2. Reinforcement :- F81 Fabric to AS 1304
 Bars Y12 and Y16, Grade 400 to AS 1302.
- 3. All laps in reinforcment shall be :-Y12 - 300, Y16 - 400
- 4. Formwork in accordance with AS 3610.
- .5. Designed to Austroads Bridge Code, W7 wheel load, dynamic factor 0.4.
- 띯등중 6. Maximum fill over roof slab shall be 3000mm.
 - 7. Reinforcement cover 45 MIN.
 - 8. Refer Service Authority for access hole diameter to be adopted.
 - 9. Refer project drawings for details of chamber walls and floors.
 - 10. For sections at chamber access refer Standard Drawing D001.
 - 11. All dimensions in millimetres.

TYPICAL SECTIONS

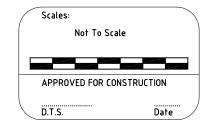
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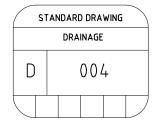
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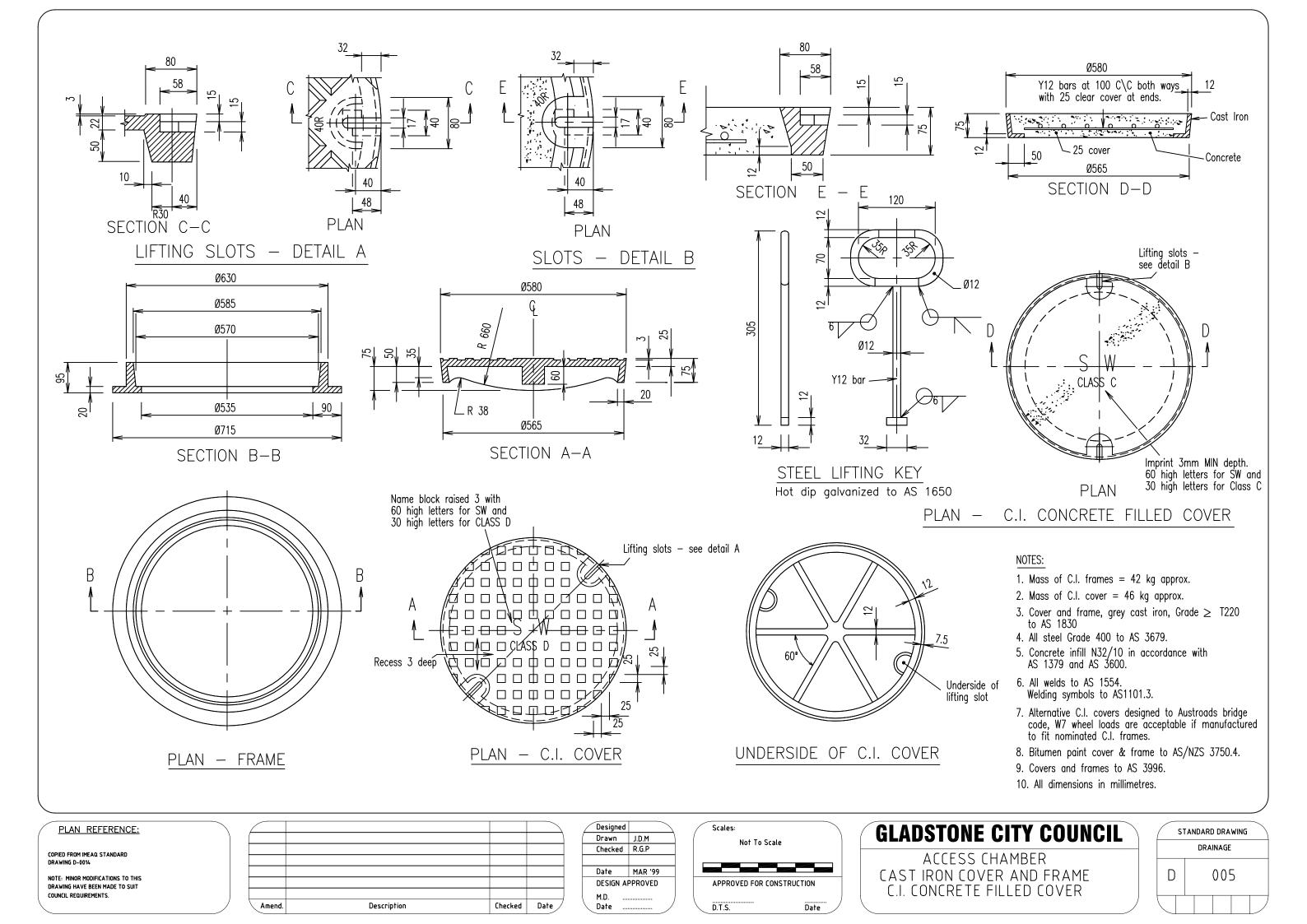
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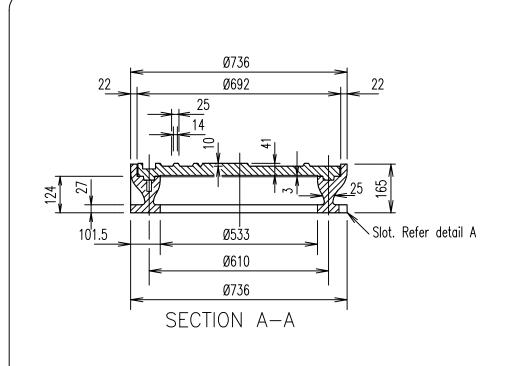


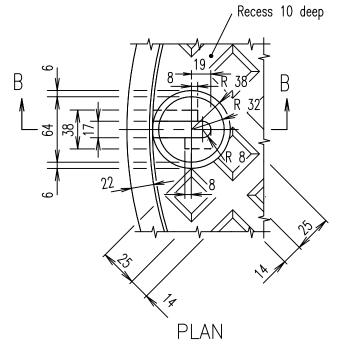
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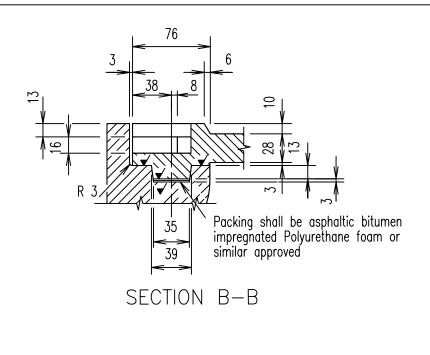
ACCESS CHAMBER ROOF SLAB RECTANGULAR



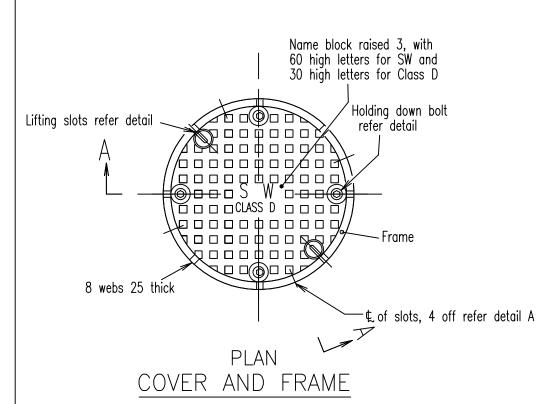


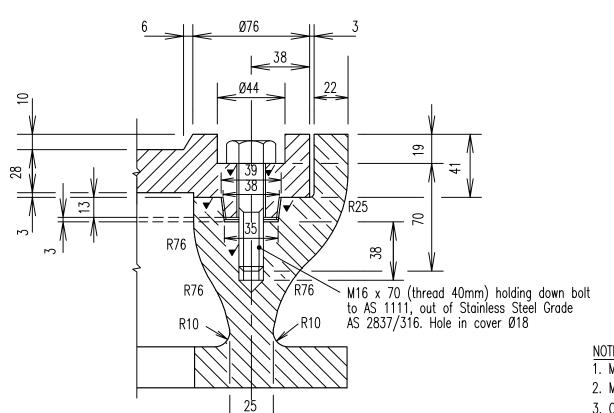




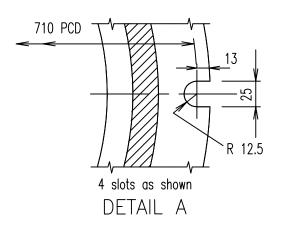


DETAIL AT LIFTING SLOTS





DETAIL OF HOLDING DOWN BOLTS



LEGEND

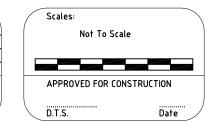
✓ Denotes machined surface.

- 1. Mass of cover = 66 kg approx.
- 2. Mass of frame = 100 kg approx.
- 3. Cover and frame, grey cast iron Grade \geq T220 to AS 1830.
- 4. Cover design Class D to AS 3996.
- 5. Alternative C.I. covers designed to Austroads bridge code, W7 wheel loads are acceptable if manufactured to fit nominated C.I. frames.
- 6. Bitumen paint cover & frame to AS/NZS 3750.4.
- 7. All dimensions in millimetres.

<u>PLAN R</u> COPIED FROM IME

PLAN REFERENCE: COPIED FROM IMEAQ STANDARD				
DRAWING D-0015				
NOTE: MINOR MODIFICATIONS TO THIS DRAWING HAVE BEEN MADE TO SUIT				
COUNCIL REQUIREMENTS.	Amend.	Description	Checked	Date

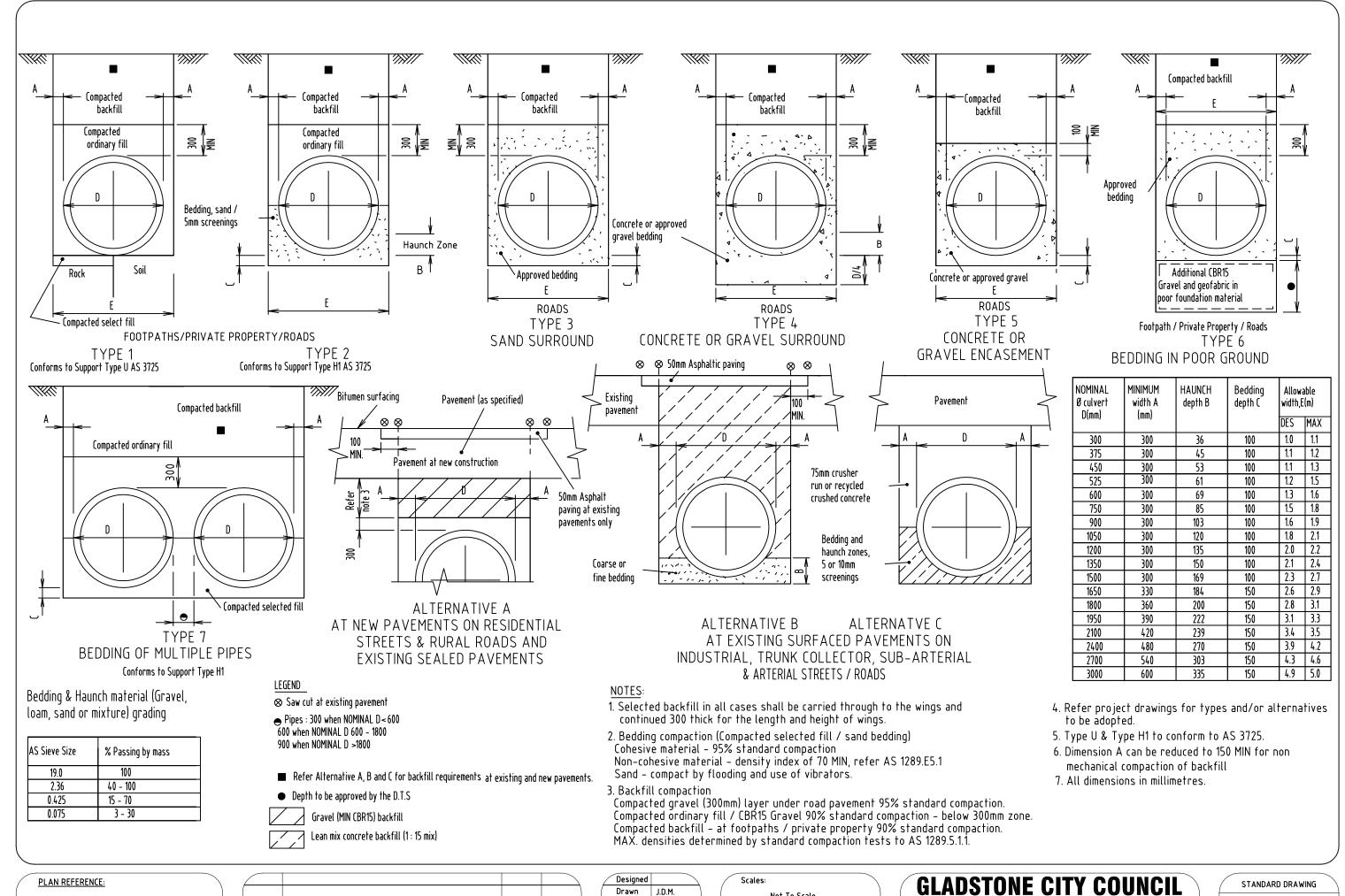
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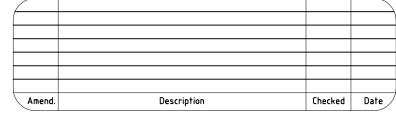
ACCESS CHAMBER CAST IRON COVER AND FRAME BOLT DOWN

S 1	STANDARD DRAWING						
	DRAINAGE						
D	006						

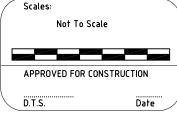


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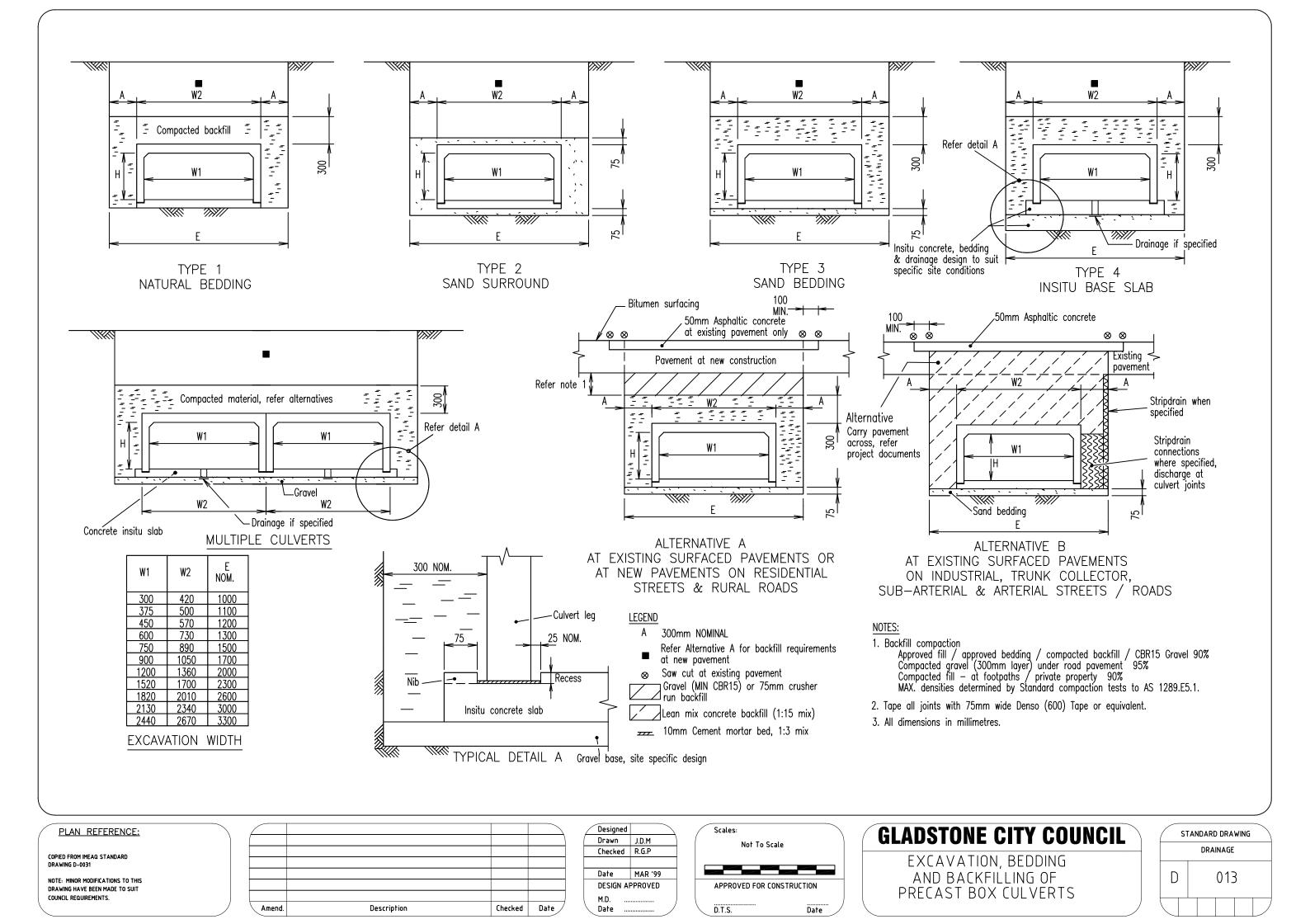


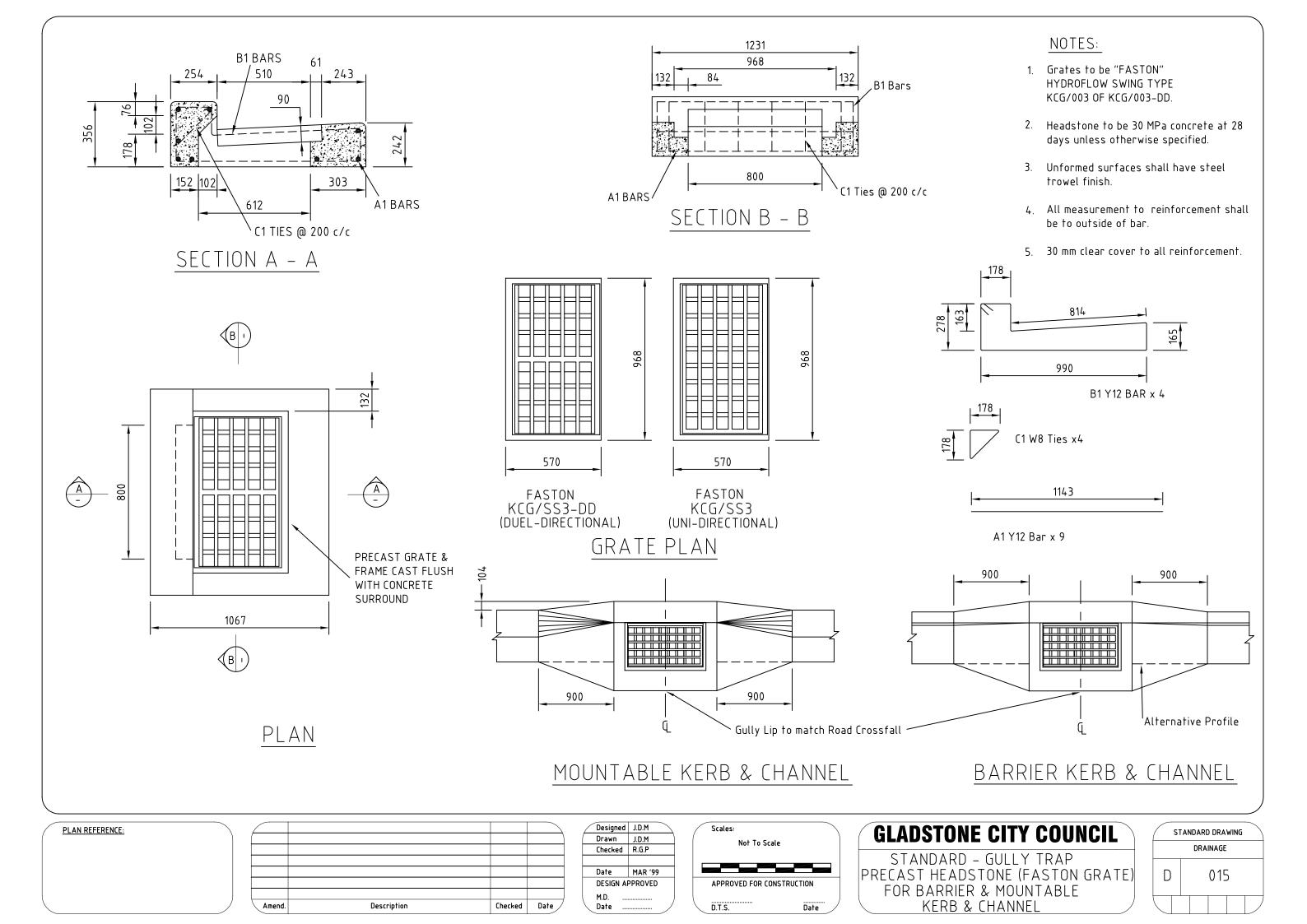
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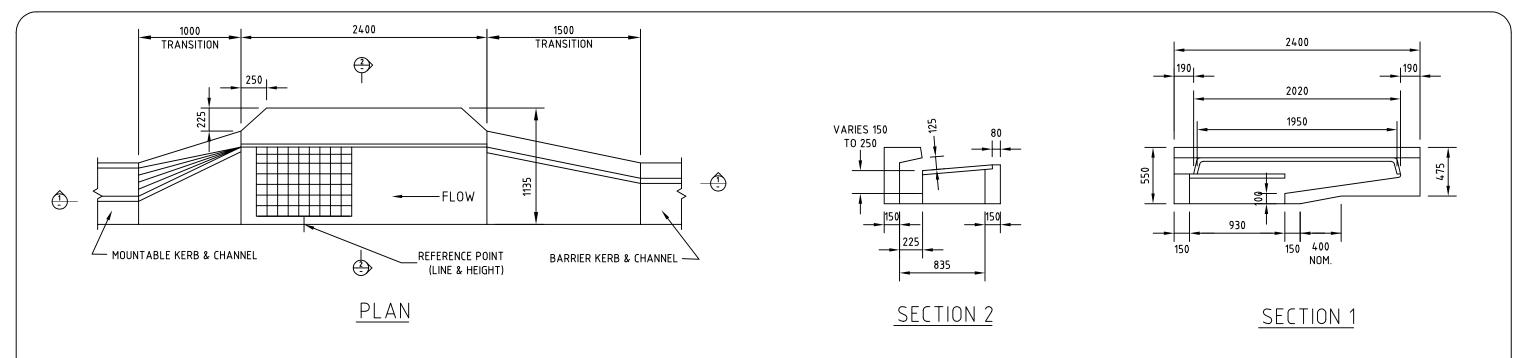


EXCAVATION, BEDDING AND BACKFILLING OF CONCRETE/FIBRE REINFORCED DRAINAGE PIPES

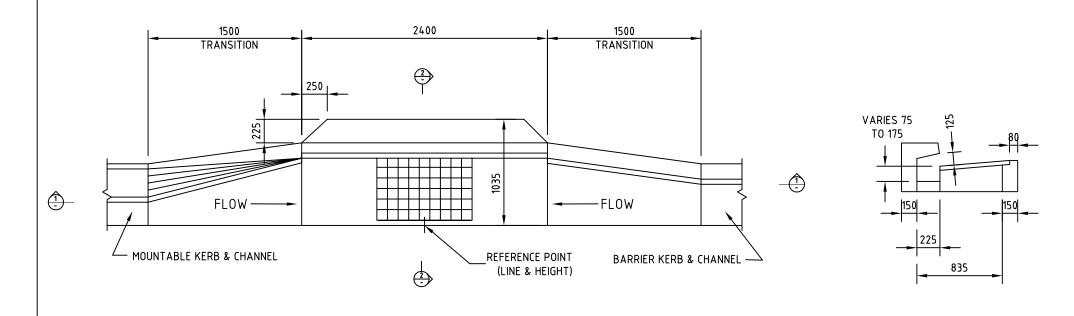
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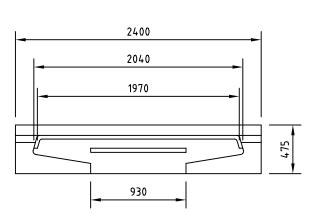






MODEL SHOWN IS R24R - L24R IS JUST OPPOSITE HAND





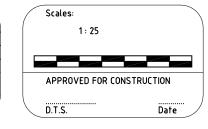
MODEL SHOWN IS C24R

NOTES:

- 1. Precast concrete units shall be approved by superintendant prior to use
- 2. Provide 10mm mortar (1 cement : 3 fine sand) joint between gully pit and precast units
- 3. All dimensions in millimeters

PLAN REFERENCE:				
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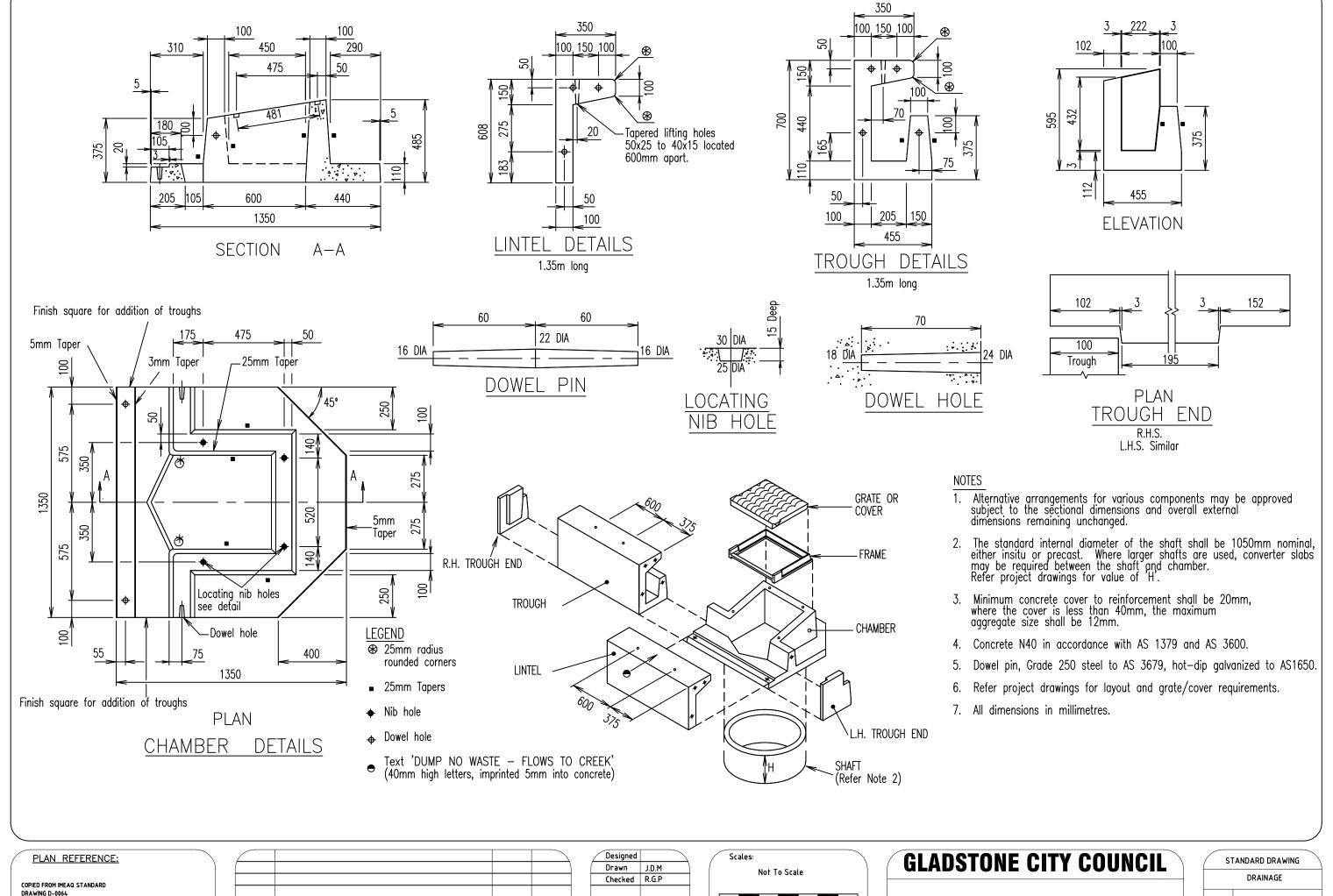
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	Drawn Checked Date DESIGN AF



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CONCRETE GULLY
C-M CONCRETE RGU - RECESSED TYPE
ROADWAY TYPE
PRECAST INLET UNITS

ST	ANDARD DRAWING
	ROAD
D	016



Amend. Description

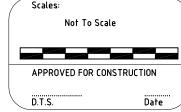
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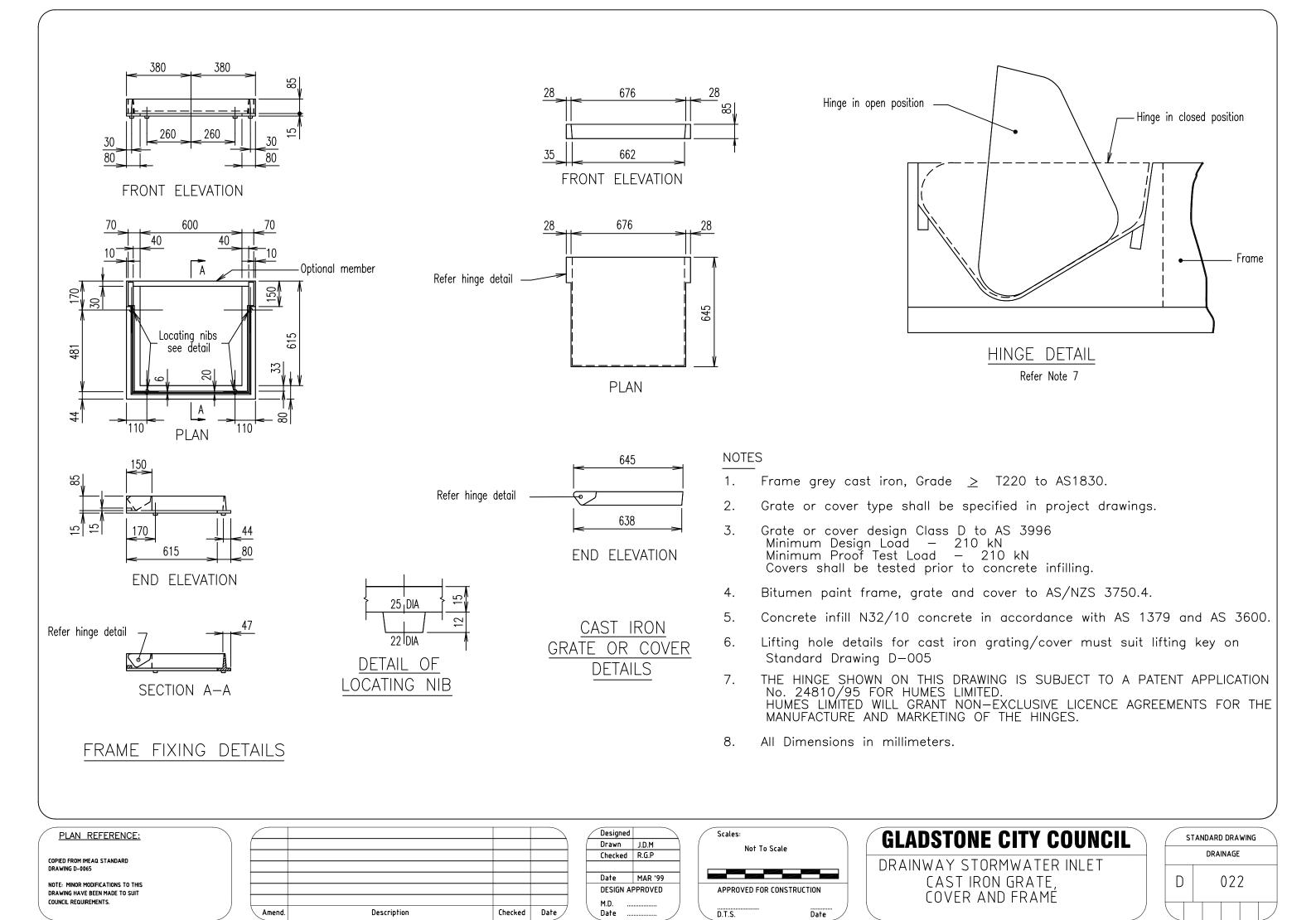
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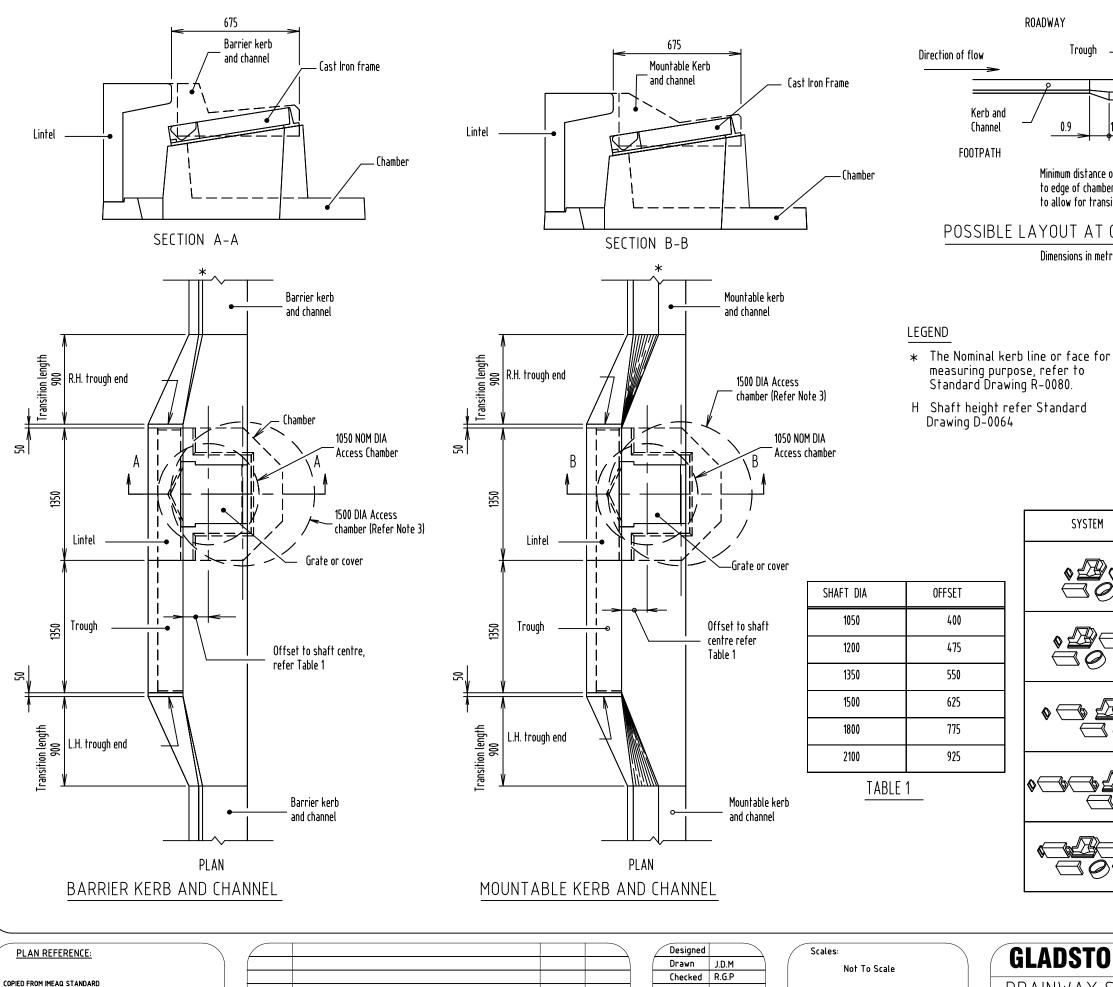
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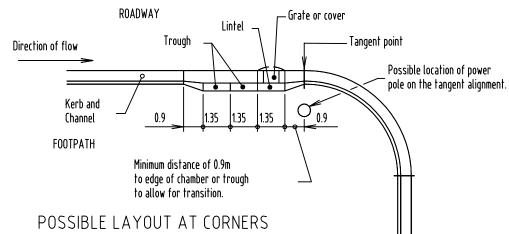


DRAINWAY STORMWATER INLET COMPONENTS

S	TAI	NDARI	DRA	WING	
		DRA	INAGE		
D			02	1	







Dimensions in metres

- 1. Precast components shall be connected by means of dowel pins.
- 2. Joints between components shall be sealed (with approved mortar or taping) to prevent ingress of backfill material
- 3. An approved access chamber converter slab shall be used under the chamber for shaft diameters larger than 1050mm NOM.
- 4. Storm water pipes parallel to kerb and channel shall be located no closer to the footpath than the back face of kerb unless specifically approved.
- 5. All dimensions in millimetres unless shown otherwise.

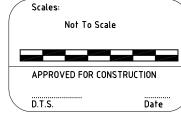
SYSTEM	NO SHAFT	SHAFT 'H' 450	SHAFT 'H' 600	SHAFT 'H' 900	SHAFT 'H' 1200
	OTCS0	OTCS4.5	OTCS6	OTCS9	OTCS12
	1TCS0	1TCS4.5	1TCS6	1TCS9	1TCS12
	2TCS0	2TCS4.5	2TCS6	2TCS9	2TCS12
	3TCS0	3TCS4.5	3TCS6	3TCS9	3TCS12
	2T2CS0	2T2CS4.5	2Т2СS6	2T2CS9	2T2CS12

TERMINOLOGY - TABLE 2

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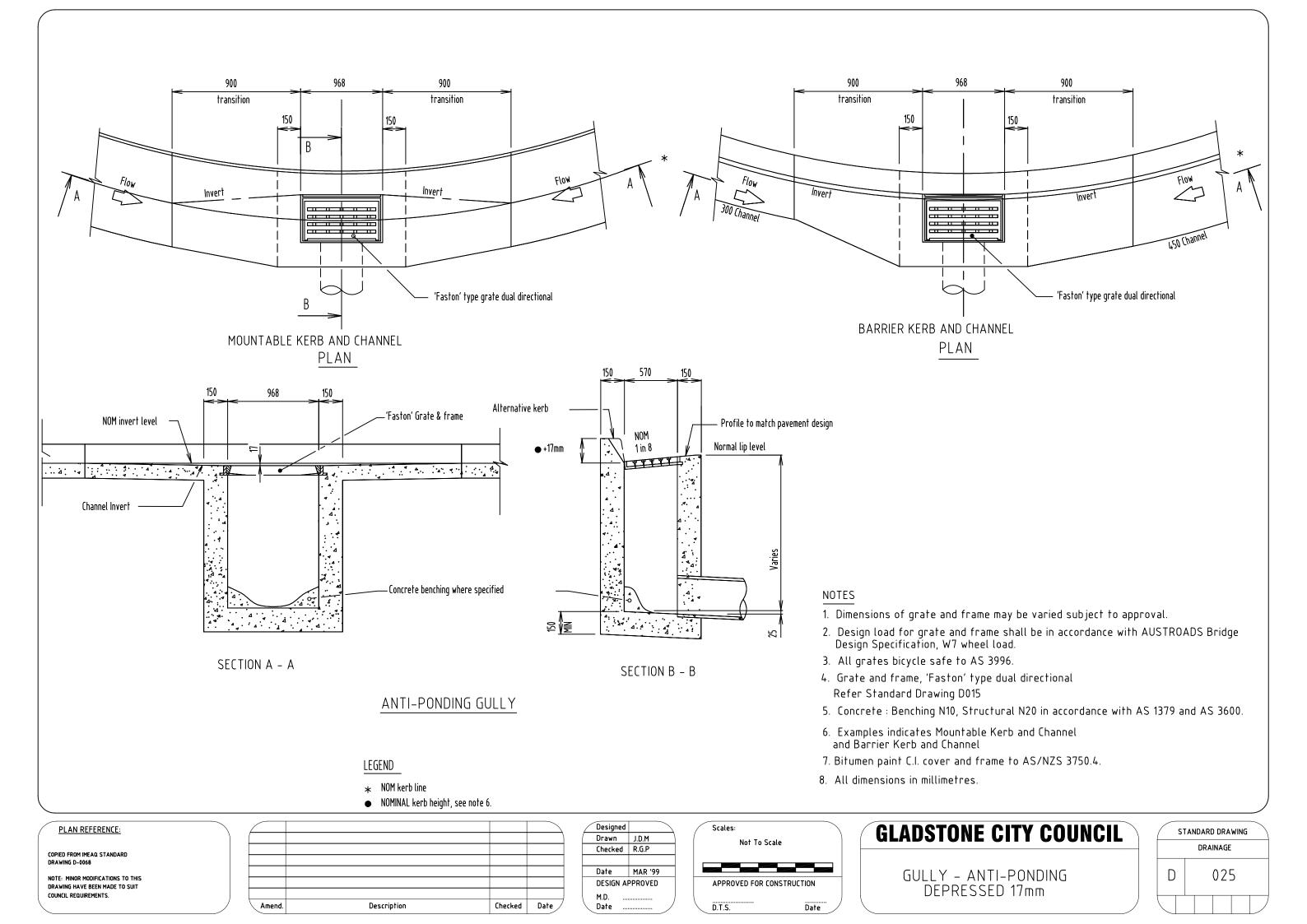
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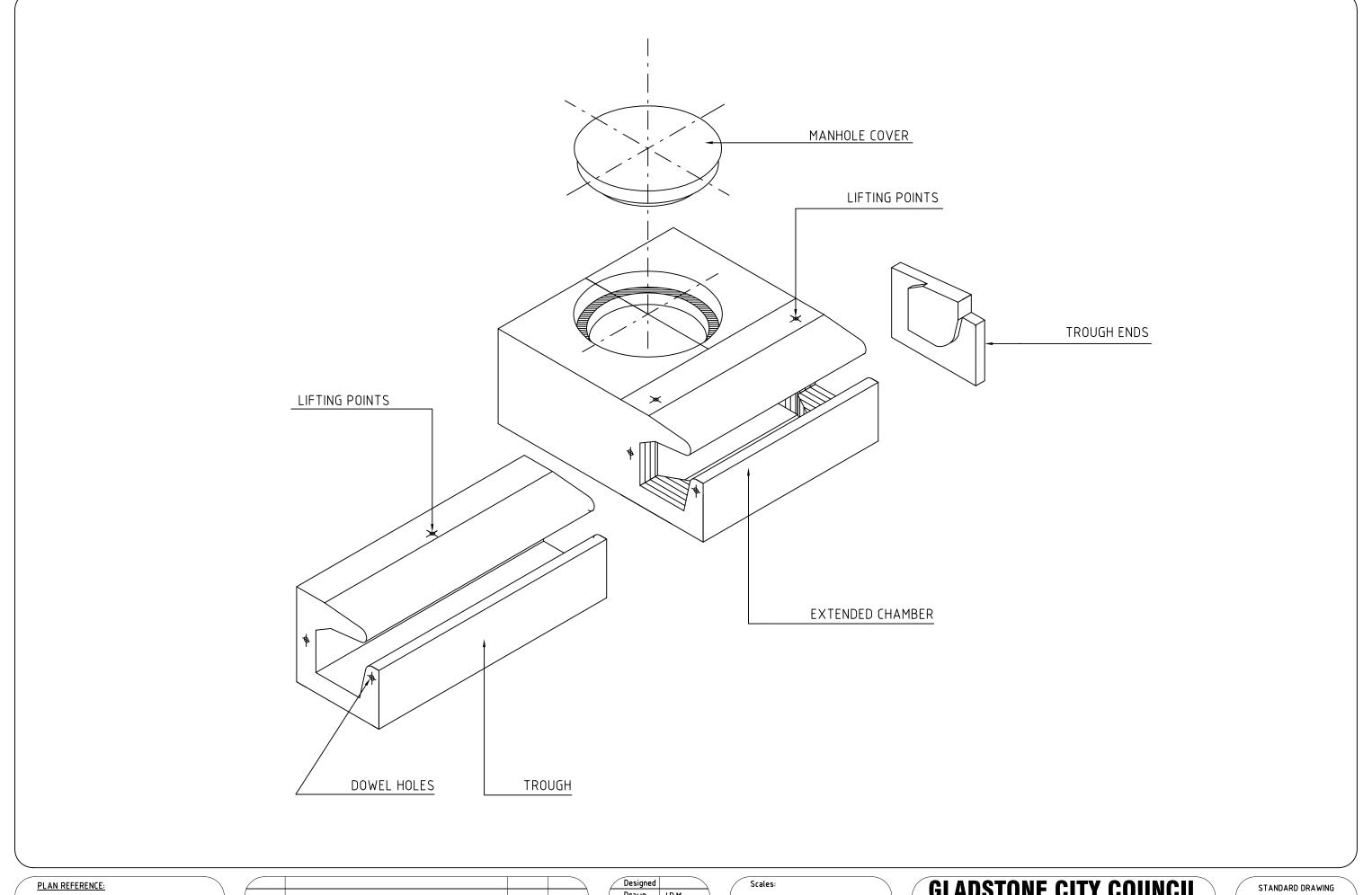


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DRAINWAY STORMWATER INLET CONSTRUCTION SETTING OUT BARRIER/MOUNTABLE KERB AND CHANNEL

S.	TANDARD DRAWING	
	DRAINAGE	
D	024	

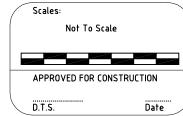




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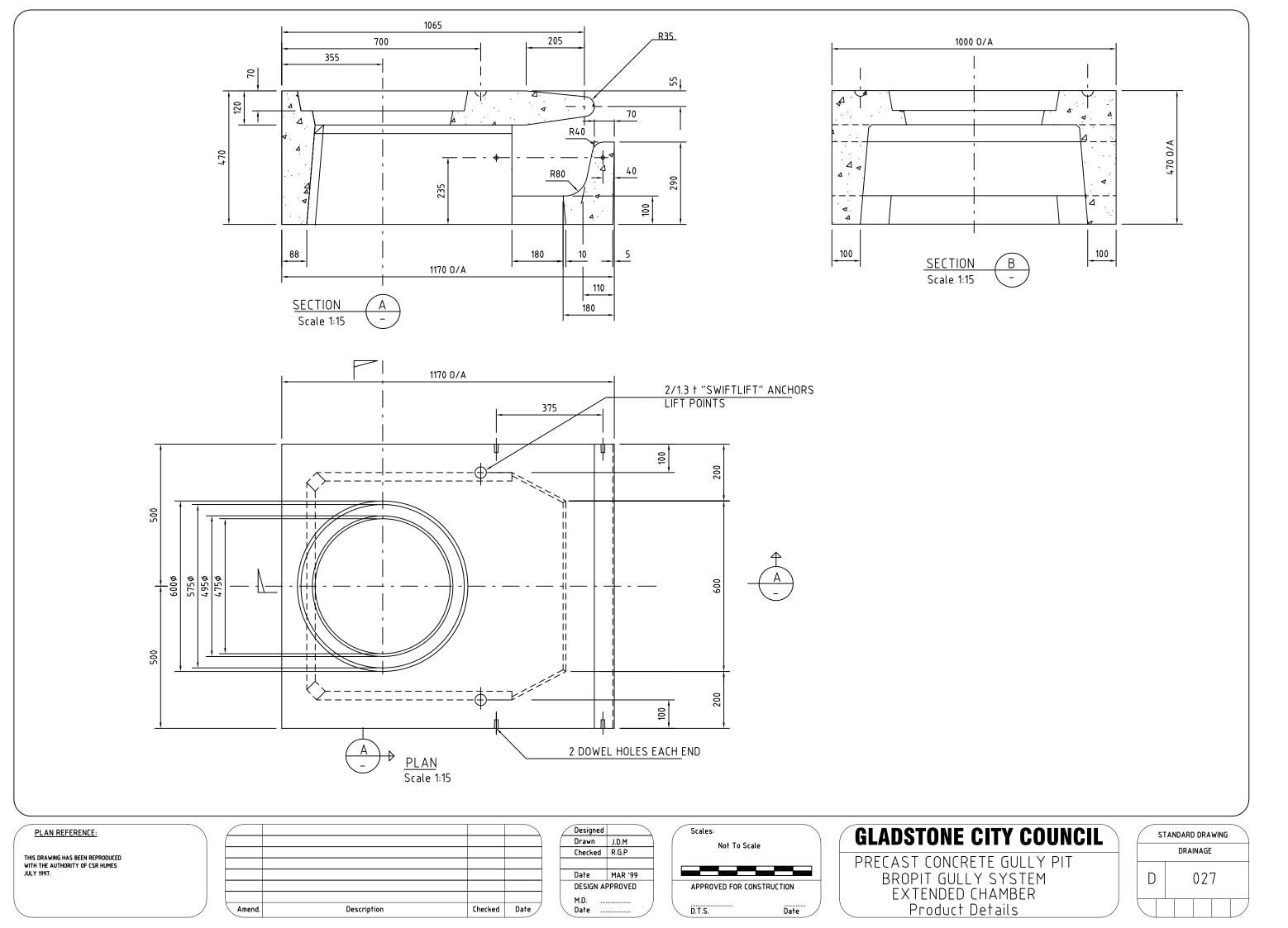
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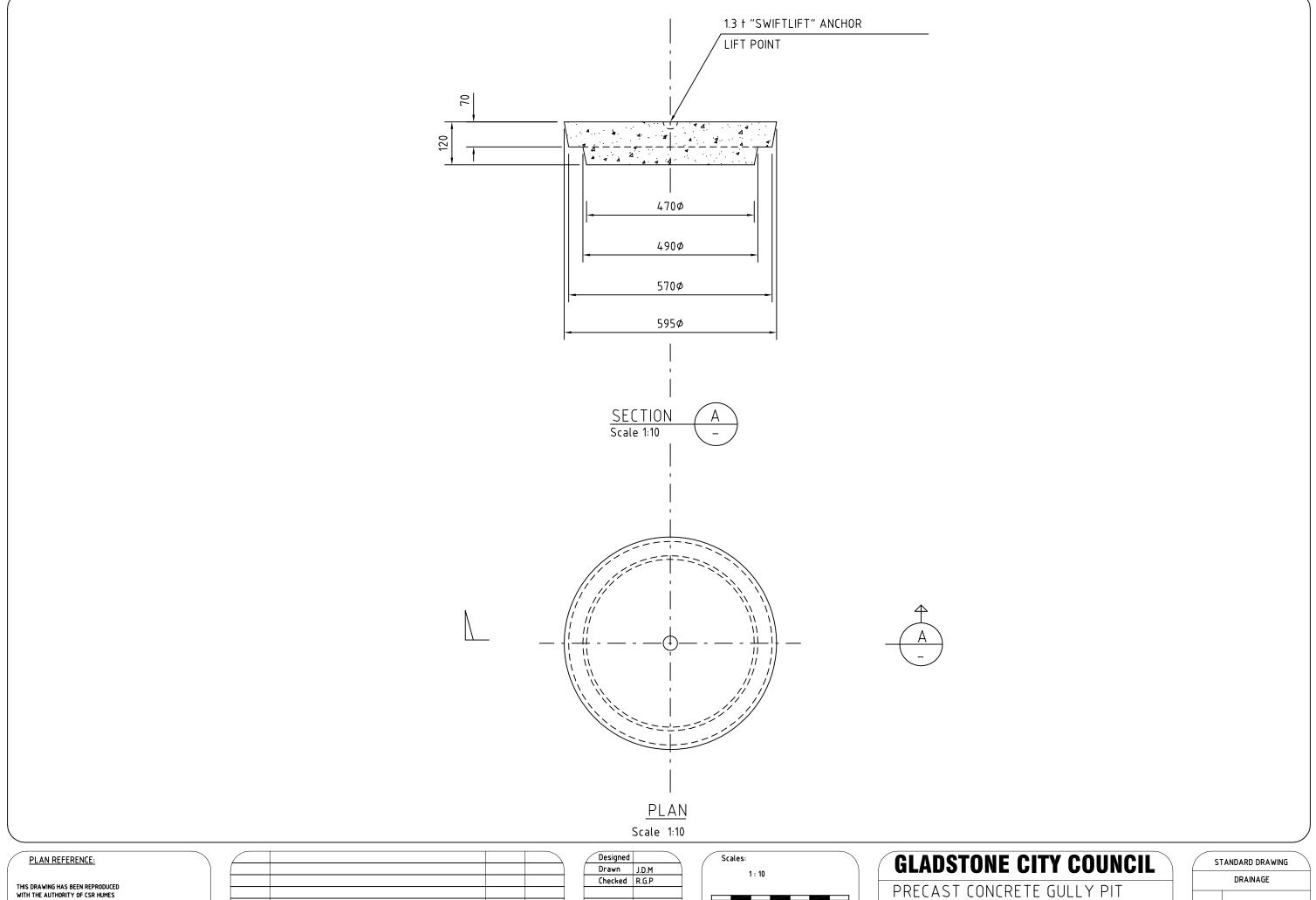


GLADSTONE CITY COUNCIL

PRECAST CONCRETE GULLY PIT BROPIT GULLY SYSTEM GENERAL ARRANGEMENT Product Details

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			DRA	INAGE		
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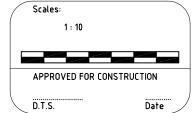




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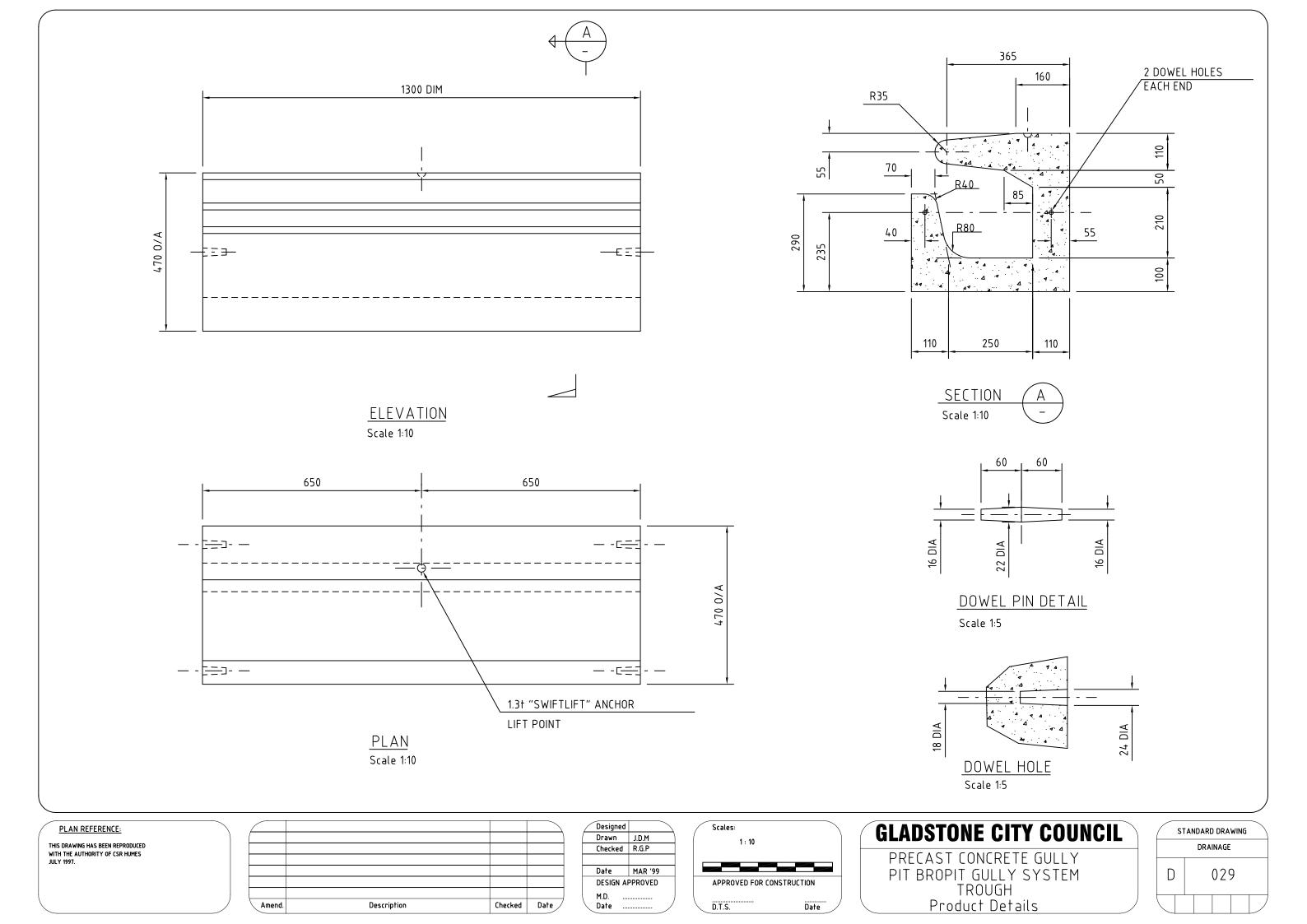
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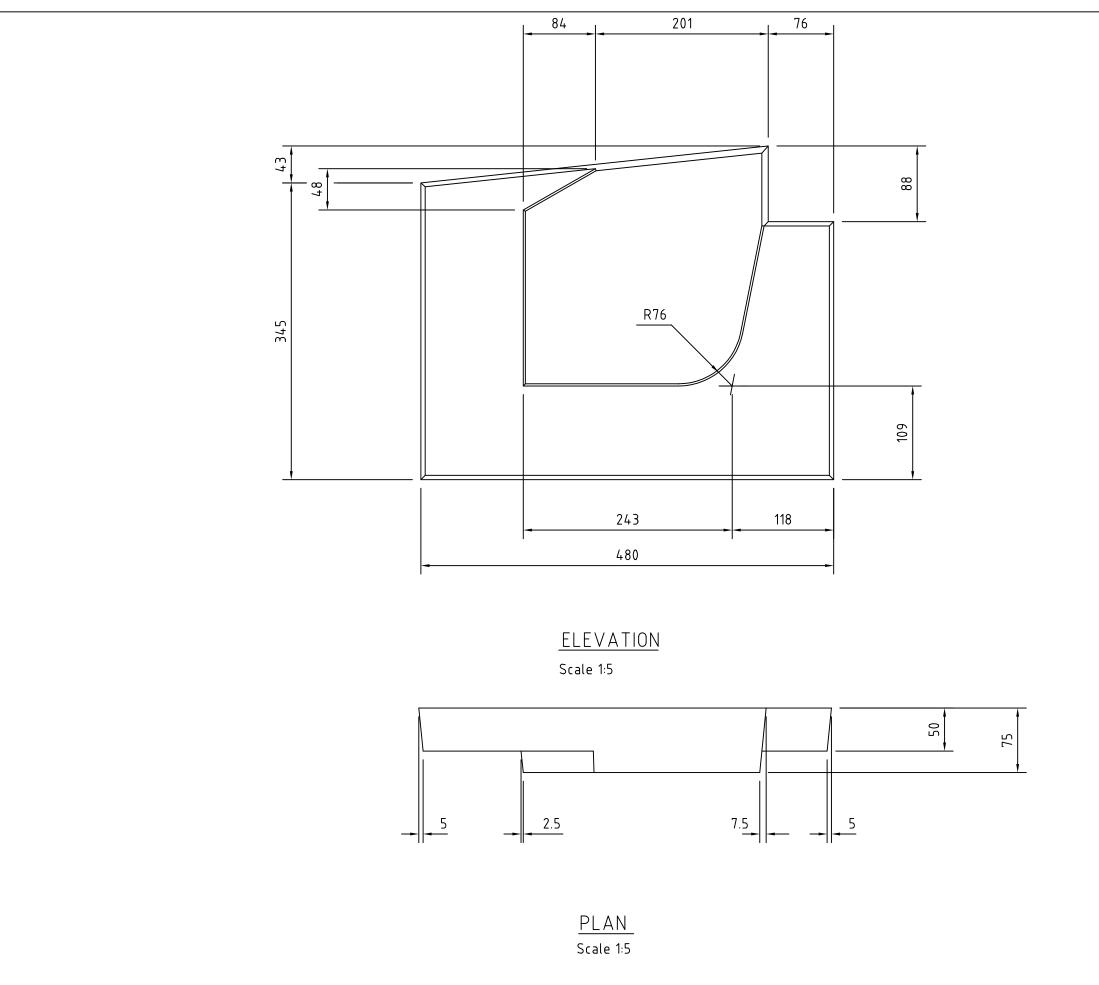
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BROPIT GULLY SYSTEM MANHOLE COVER Product Details

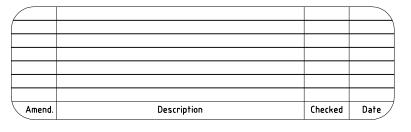
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D)28	3		



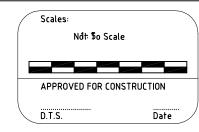


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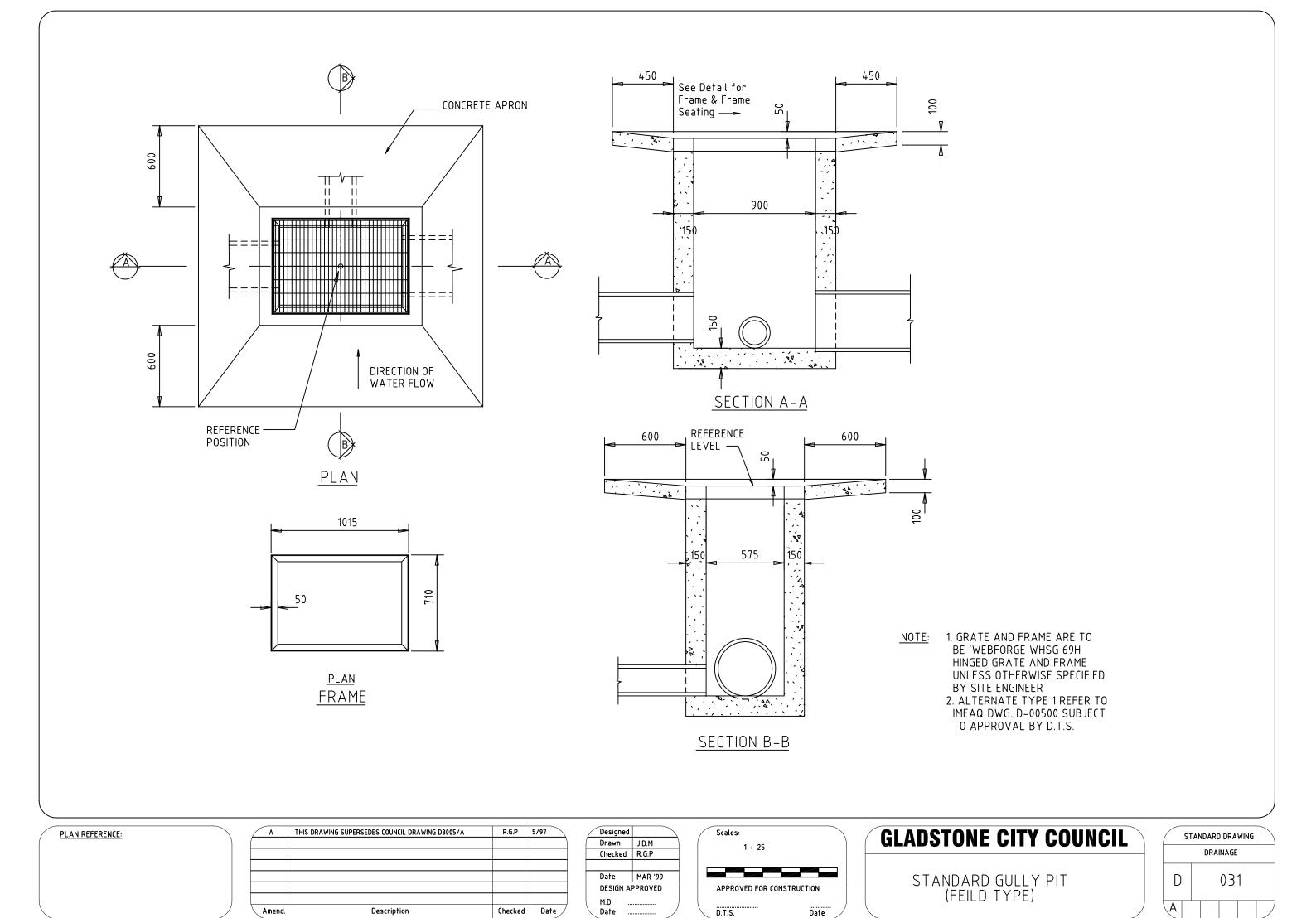
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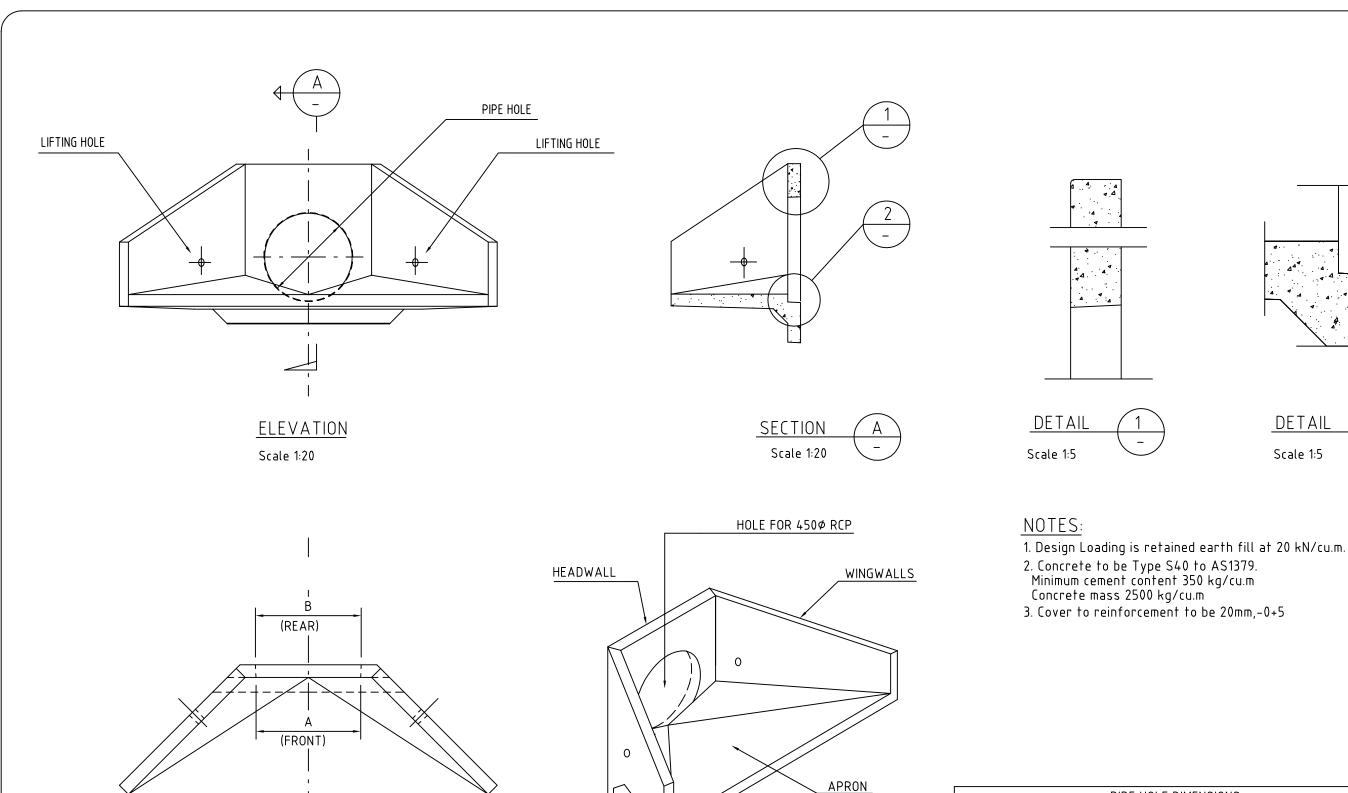


GLADSTONE CITY COUNCIL

PRECAST CONCRETE GULLY PIT BROPIT GULLY SYSTEM TROUGH ENDS Product Details

	\$1	۱A٦	NDAR	DRA	WING	`
DRAINAGE						
D				0	30	





PIPE HOLE DIMENSIONS							
DIA	300ø	375ø	450ø	525ø	600ø	675ø	750ø
Α	450	450	538	620	702	786	890
В	456	456	544	626	708	792	896

DETAIL

Scale 1:5

PLAN REFERENCE:

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45°

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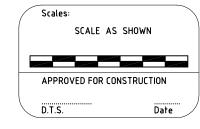
PLAN

Scale 1:20

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	Date	MAR '99	
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ISOMETRIC VIEW

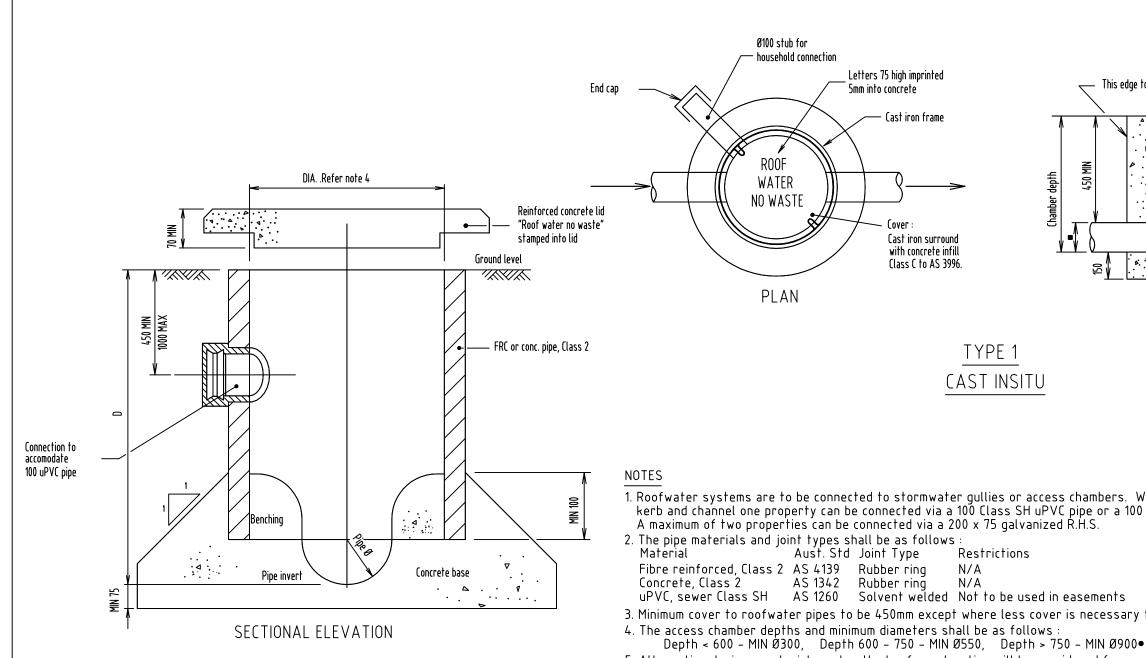
NOT TO SCALE



GLADSTONE CITY COUNCIL

R.C.P. PIPE CULVERTS PRECAST CONCRETE HEADWALL
45° Wingwalls
Product Detail

\$1	ANDARD DRAWING
	DRAINAGE
D	040



TYPE 2 PRECAST / INSITU

LEGEND

- Refer project drawings for pipe diameter and type
- At Ø900 chambers adopt roof design off Standard Drawing D-0011.

1. Roofwater systems are to be connected to stormwater gullies or access chambers. Where the system is to be connected to kerb and channel one property can be connected via a 100 Class SH uPVC pipe or a 100 x 75 galvanized R.H.S. to a kerb adaptor.

Solvent welded Not to be used in easements

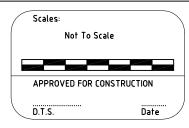
- 3. Minimum cover to roofwater pipes to be 450mm except where less cover is necessary to discharge to kerb and channel.
- 5. Alternative designs, materials and methods of construction will be considered for approval including precast roofwater chambers available from various manufacturers. Alternative precast units will require to be bedded and encased in 150 thick concrete (Grade N25) up to 150 above crown of the inlet pipe with all subsequent backfill compacted to 95% MDD (modified compaction to AS 1289) to ensure stability and robustness.
- 6. Alternative covers and frames proposed for approval must be circular, and be designed as Class C to AS 3996.
- 7. Concrete, base N25, cover infill N32 in accordance with AS 1379 and AS 3600.
- 8. The roofwater drainage system shall be shown on the stormwater drainage plans for the development.
- 9. The following 'as constructed' infomation shall be submitted to Superintendent, refer Sewerage Sample as constructed plan S-0010. - Offsets of the main line to property boundary
 - The locations of access chambers and Y junctions measured from the property boundary.
- 10. Where individual lots can directly discharge to the kerb and channel, kerb adaptors shall be used. Refer Standard Drawing R-020.
- 11. All dimensions in millimetres.

PLAN REFERENCE:

COPIED FROM IMEAQ STANDARD DRAWING D-0110

NOTE: MINOR MODIFICATIONS TO THIS DRAWING HAVE BEEN MADE TO SUIT COUNCIL REQUIREMENTS.

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ROOFWATER INSPECTION CHAMBER

\$1	TANDARD DRAWING DRAINAGE
D	060

Light duty access chamber cover

and frame (non-load application)

Refer Standard Drawing D-0014.

150

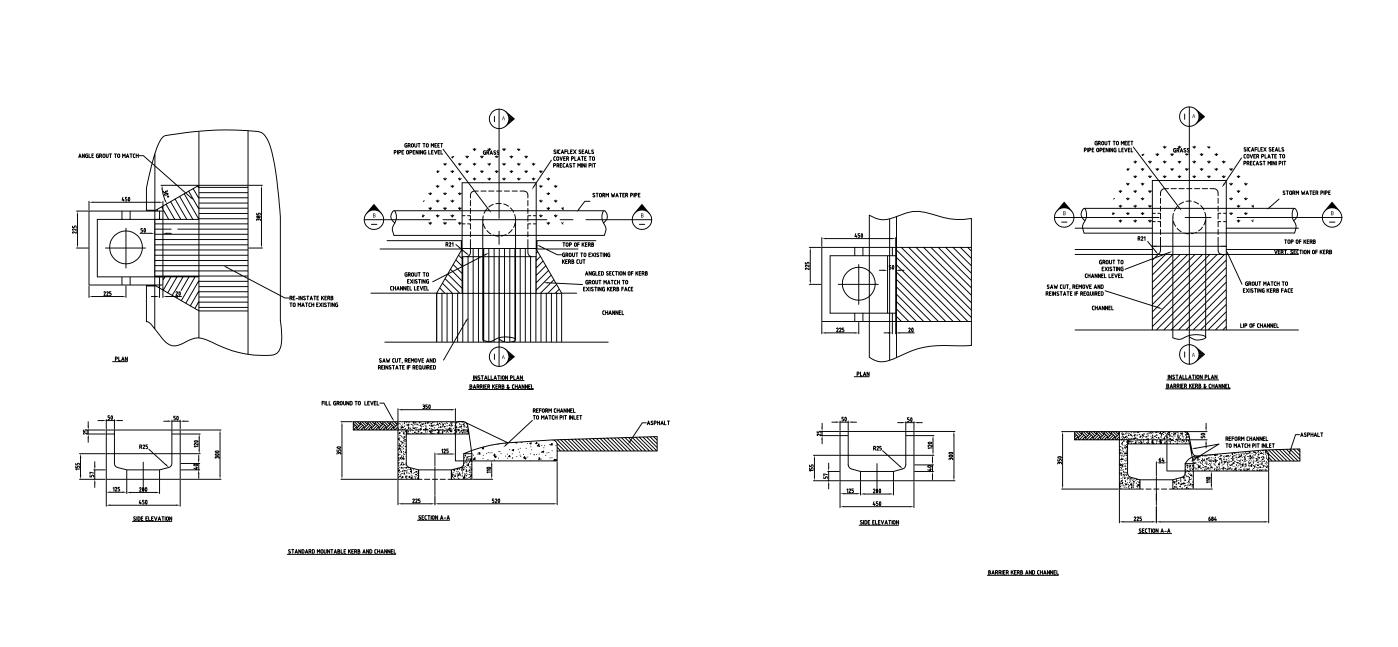
This edge to be formed

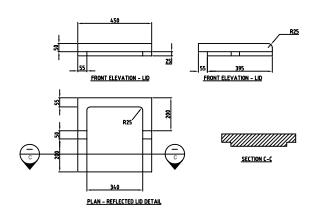
15 MIN fall

550

SECTION

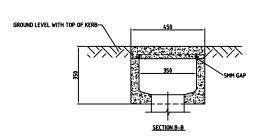
450 MIN





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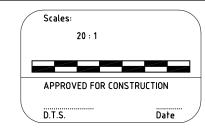


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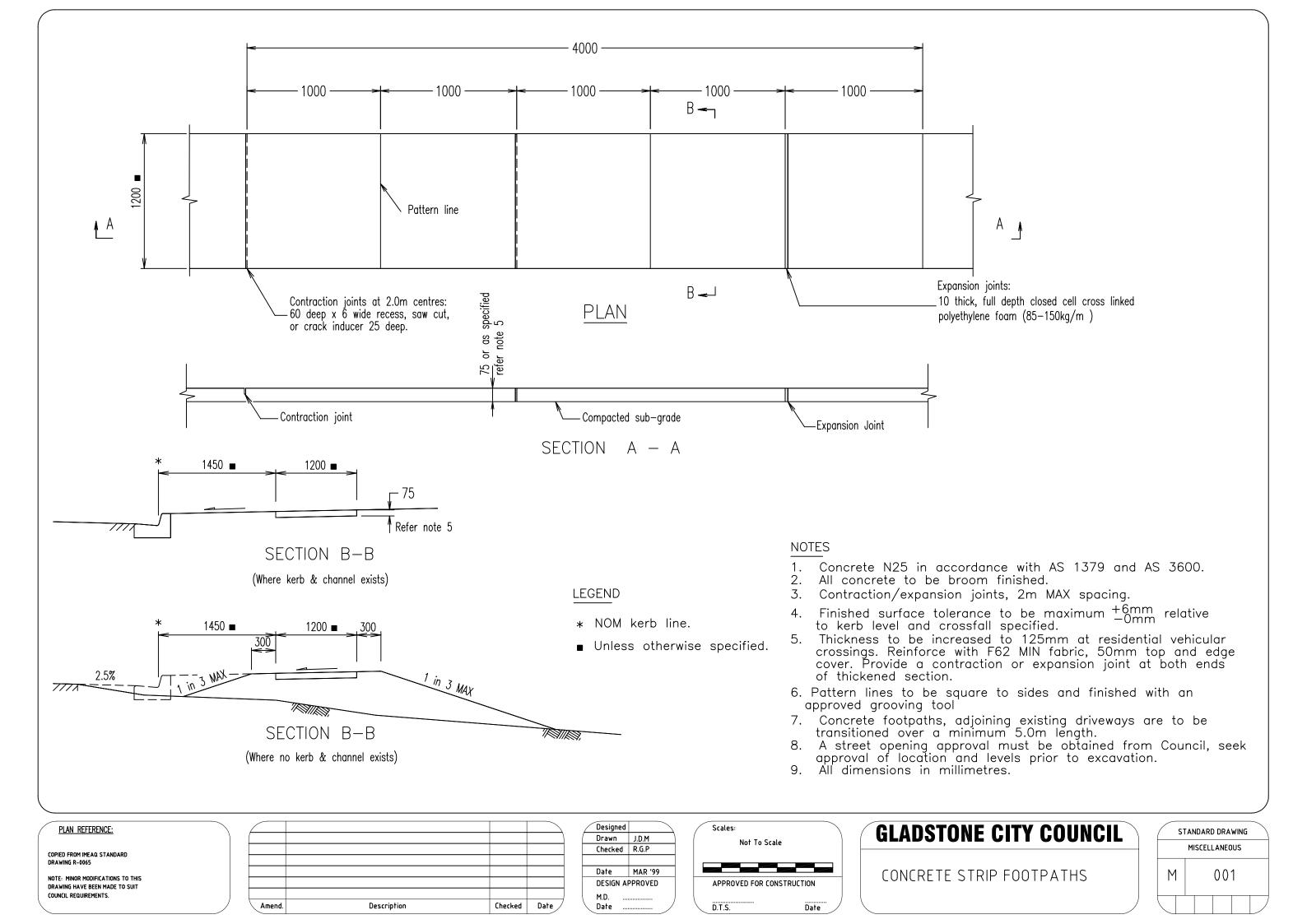
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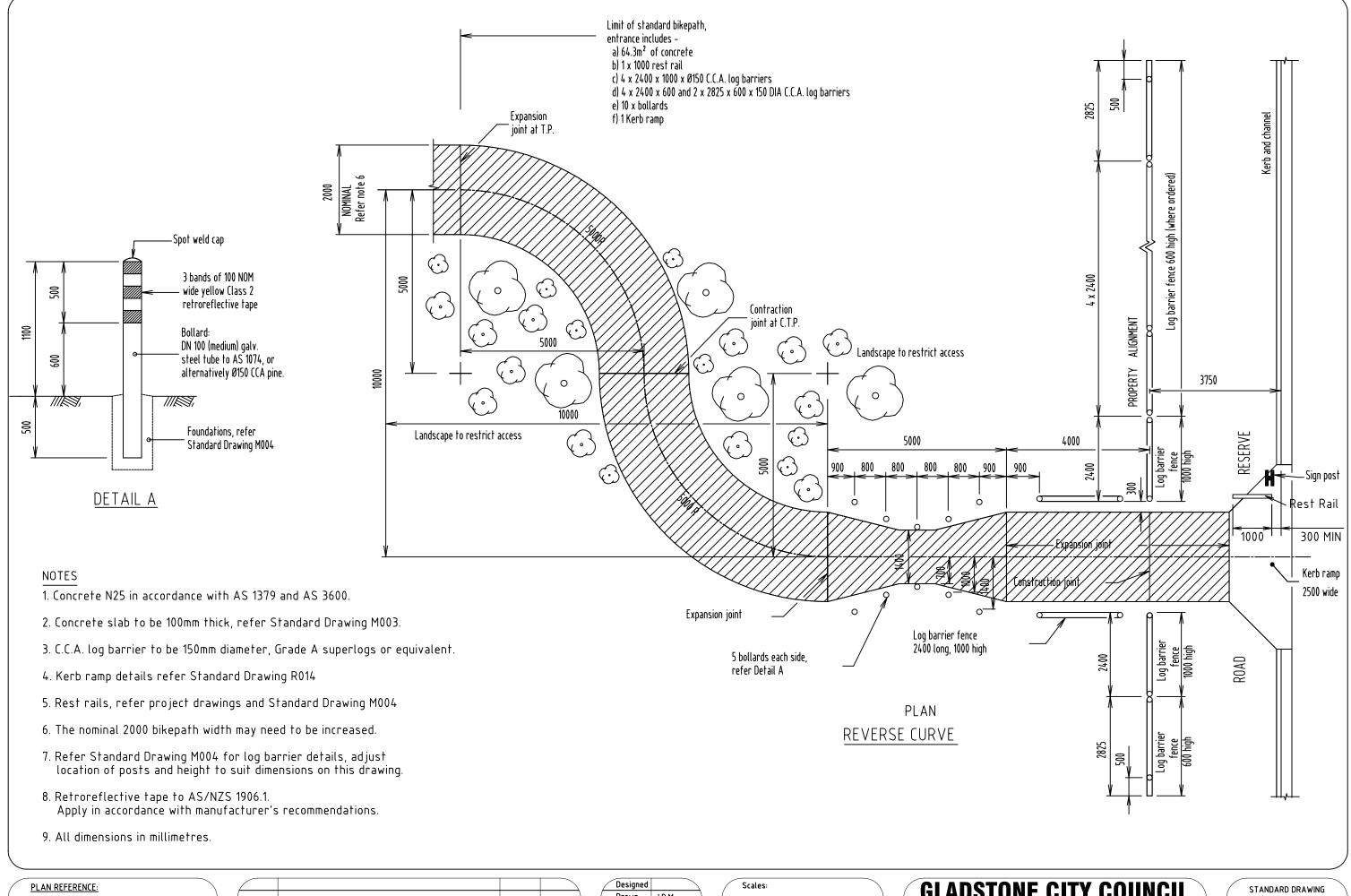


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KERB & CHANNEL ANTI - PONDING STORMWATER MINI PIT

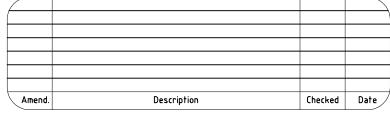
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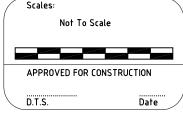


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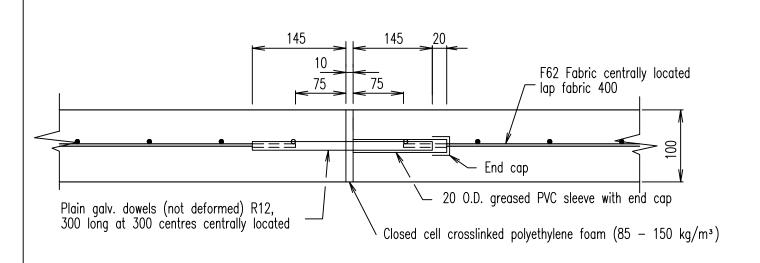
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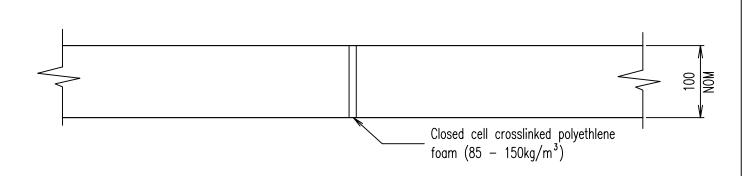
GLADSTONE CITY COUNCIL

BIKEPATH SLOWDOWN CONTROL REVERSE CURVE

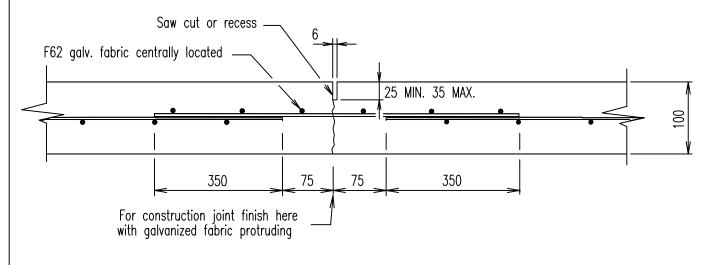
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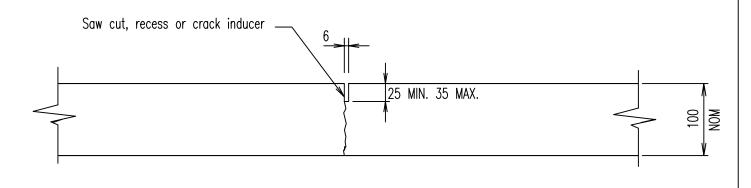


EXPANSION JOINT



CONTRACTION JOINT
Spacing 4m

REINFORCED



CONTRACTION JOINT Spacing 2m

NON REINFORCED

NOTES:

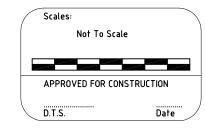
- 1. Concrete N25 in accordance with AS 1379 and AS 3600.
- 2. Reinforcement and dowels to be used, if specified, when bikepath is placed on fill or on poor subgrade.
- 3. Bikepath thickness may be reduced to 75mm in good ground conditions.
- 4. Dowels Grade 250 steel to AS 1302. Fabric to AS 1304.
- 5. Galvanizing to AS 1650.
- 6. All dimensions in millimetres.

PLAN REFERENCE: COPIED FROM IMEAQ STANDARD DRAWING P-0012 NOTE: MINOR MODIFICATIONS TO THIS DRAWING HAVE BEEN MADE TO SUIT

COUNCIL REQUIREMENTS.

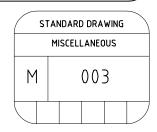
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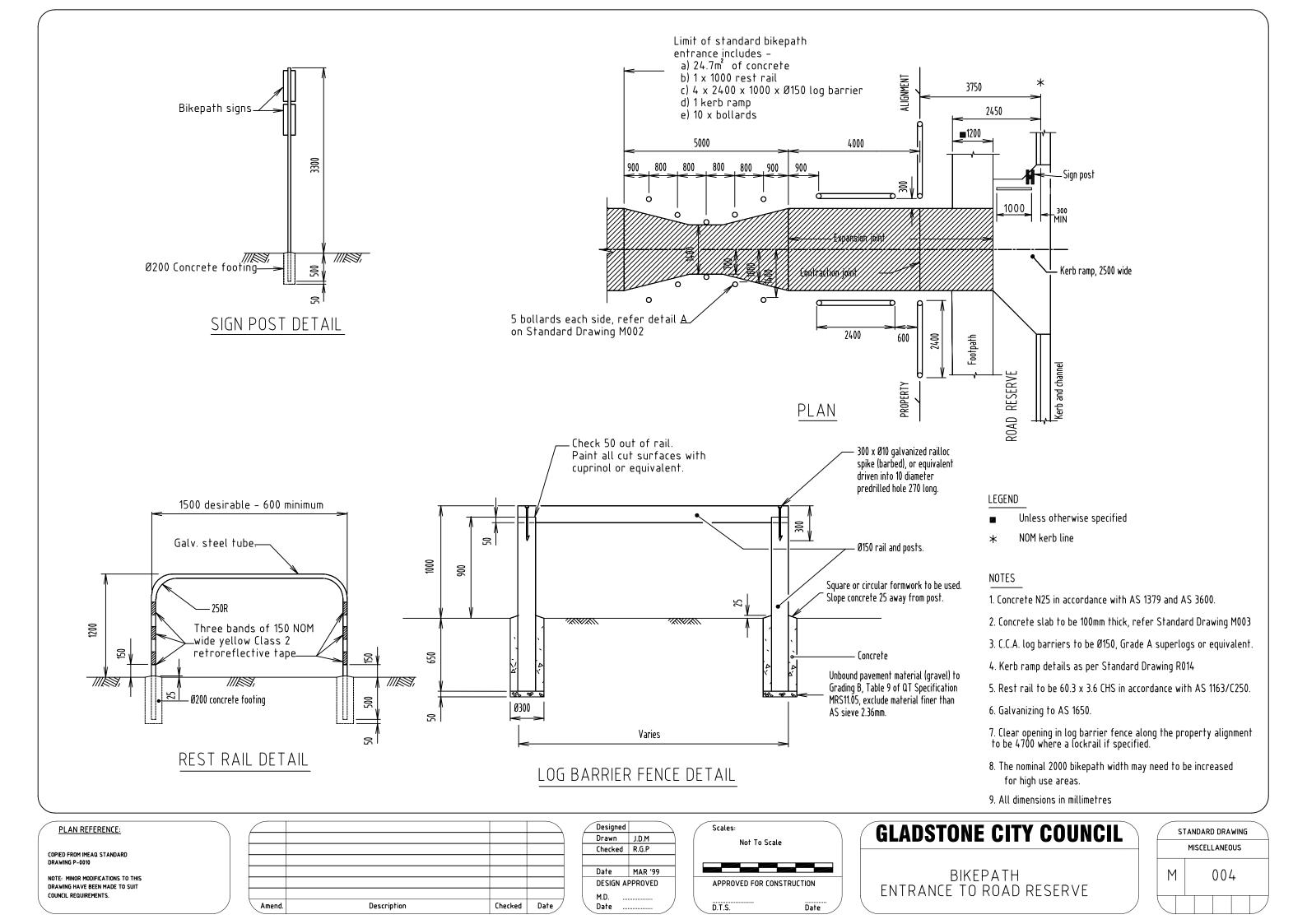
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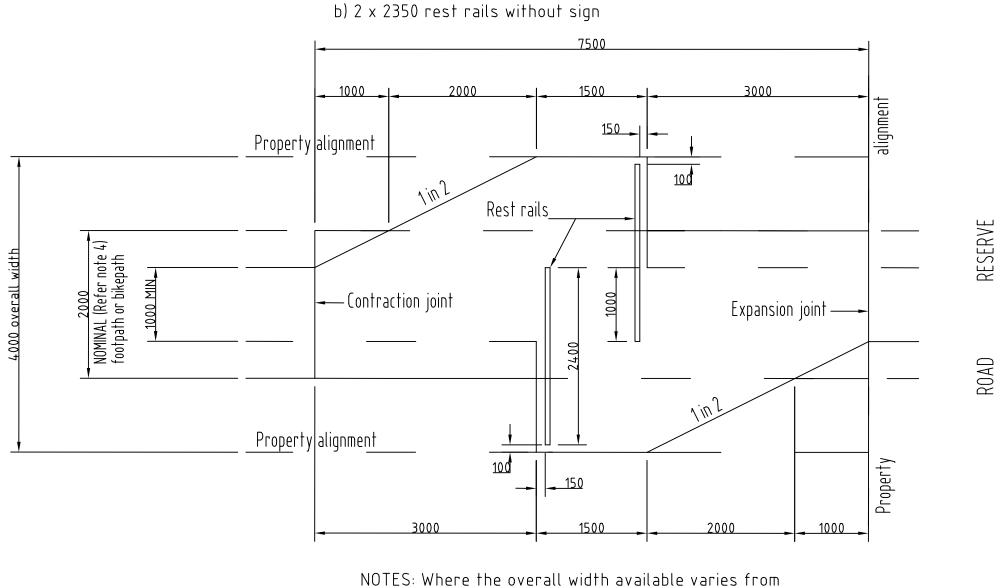


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BIKEPATH PAVEMENT JOINTS







Limit of 'Z' chicane slowdown includes :

a) 20.0²m concrete

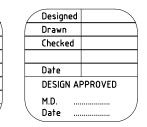
4000 wide, adjust the rest rail length to suit.

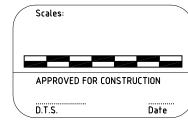
Z CHICANE

Notes

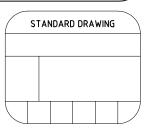
- 1. Concrete N25 in accordance with AS 1379 and AS 3600.
- 2. Concrete slab to be 100mm thick, refer Standard Drawing M003.
- 3. Rest rails refer Standard Drawing M004
- 4. The nominal 2000 bikepath width may need to be increased for high use areas.
- 5. All dimensions in millimetres.

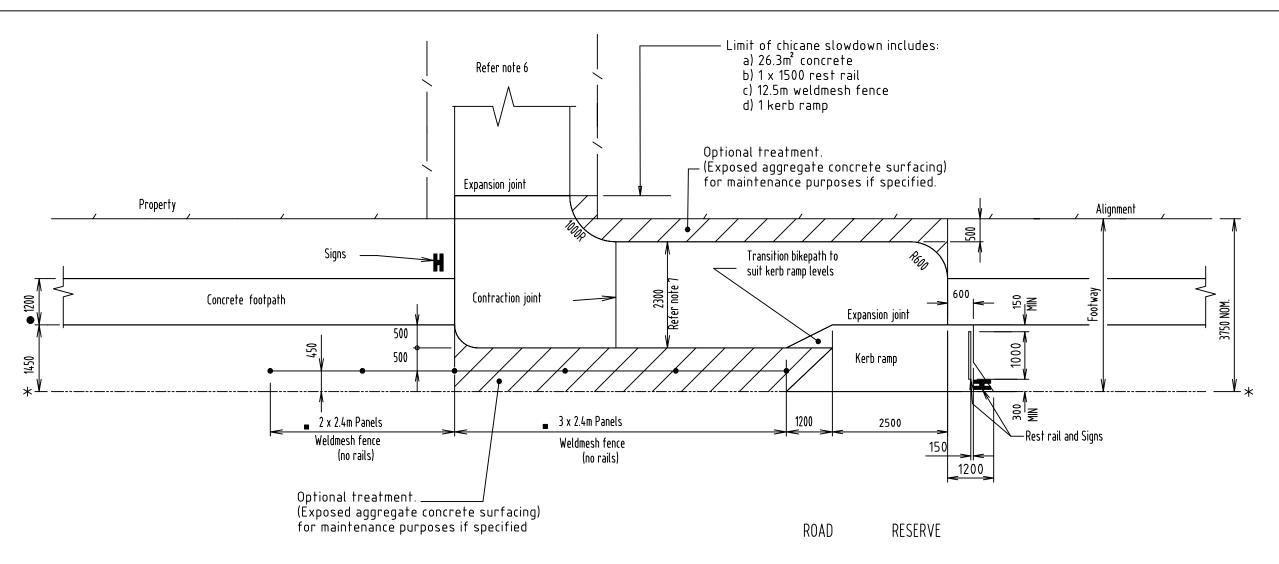
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OFFSET CHICANE

- For use where reverse curve is not practical
- Recommended for areas with high primary school traffic

LEGEND

- * NOM. kerb line
- Each section may be reduced by 1 panel, refer project drawings
- Unless otherwise specified

NOTES

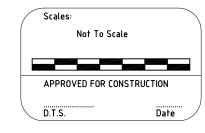
- 1. Concrete N25 in accordance with AS 1379 and AS 3600.
- 2. Concrete slab to be 100mm thick, refer Standard Drawing M003.
- 3. Weldmesh fence details as approved by D.T.S
- 4. Kerb ramp details as per Standard Drawing R014.
- 5. Rest rails, refer project drawing and Standard Drawing M004
- 6. The nominal 2000 bikepath width may need to be increased for high use areas.
- 7. Bikepath width may need to be reduced to suit available footway.
- 8. All dimensions in millimetres, unless shown otherwise.

PLAN REFERENCE: COPIED FROM IMEAQ STANDARD

NOTE: MINOR MODIFICATIONS TO THIS DRAWING HAVE BEEN MADE TO SUIT COUNCIL REQUIREMENTS.

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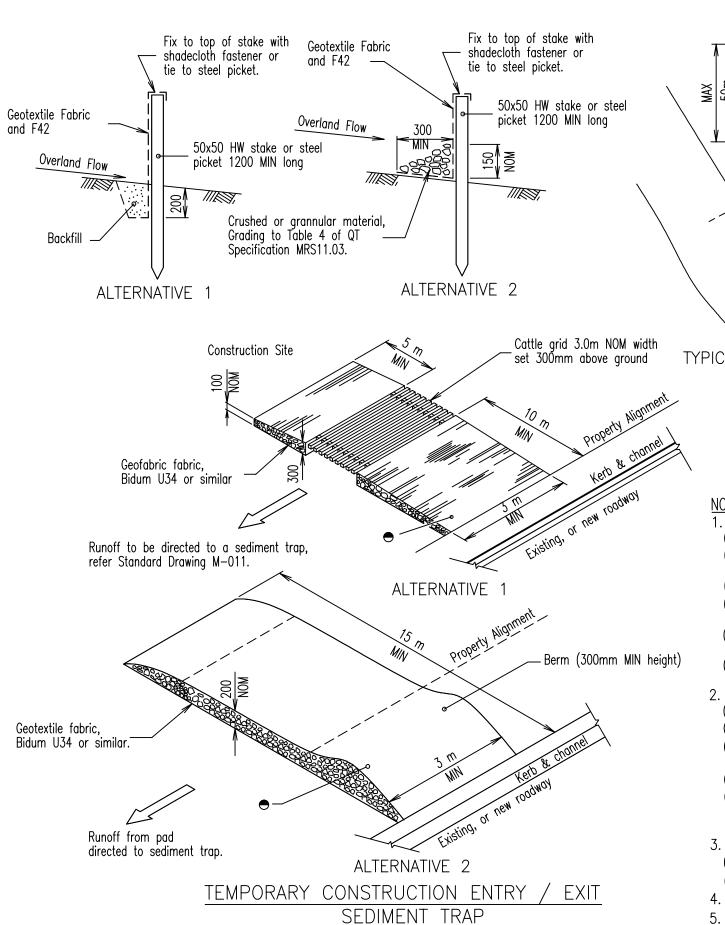
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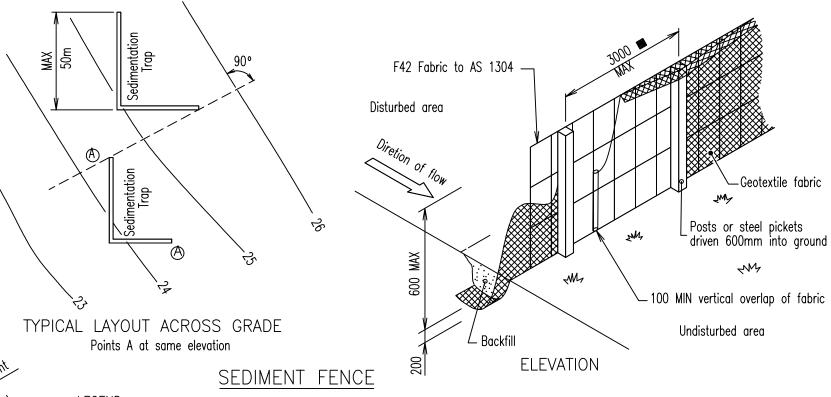


GLADSTONE CITY COUNCIL

BIKEPATH SLOWDOWN CONTROL OFFSET CHICANE

STANDARD DRAWING					
MISCELLANEOUS					
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LEGEND

- Unbound pavement material (gravel) to Grading B, Table 9 of QT Specification MRS11.05, exclude material finer than AS sieve 2.36mm.
- Without F42 fabric, 2000 MAX C\C

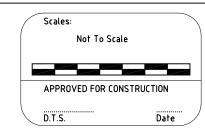
<u>NOTES</u>

- 1. General
- (a) Temporary drainage control. Flow should be diverted around the work site where possible.
- (b) All drainage, erosion and sediment controls to be installed and be operational before commencing up—slope earthworks.
- (c) All control measures to be inspected at least weekly and after significant runoff producing storms.
- (d) Control measures may be removed when on—site erosion is controlled and 70% permanent soil coverage is obtained over all upstream disturbed land.
- (e) In areas where runoff turbidity is to be controlled, exposed surfaces to be either mulched, covered with erosion control blankets or turfed if earthworks are expected to be delayed for more than 14 days.
- f) Straw bale sediment traps are a secondary option which generally should not be used if other options are available.
- 2. Sediment Fence
 - (a) Not to be located in areas of concentrated flow.
 - (b) Normally located along the contour with a maximum catchment area 0.6 ha per 100m length of fence.
- (c) Woven fabrics are preferred, non—woven fabrics may be used on small work sites, i.e. operational period less than 6 months or on sites where significant sediment runoff is not expected.
- d) Where fences need to be located across the contour the layout shall conform to 'Typical Layout Across Grade'.
- (e) Fences are required 2m MIN from toe of cut or fill batters, where not practical one fence can be at the toe with a second fence 1m MIN away. Fence should not be located parallel with toe if concentration of flow will occur behind the fence.
- 3. Temp Construction Entry/Exit Sediment Trap.
- (a) Adjacent stormwater runoff to be diverted away from entry/exit.
- (b) Wheel wash or spray unit may be required during wet weather.
- 4. Safety issues must be considered at all times, incorporate traffic control devices to the satisfaction of the D.T.S.
- 5. All dimensions in millimetres unless indicated otherwise.

PLAN REFERENCE: COPIED FROM IMEAQ STANDARD DRAWING D-0040 NOTE: MINOR MODIFICATIONS TO THIS DRAWING HAVE BEEN MADE TO SUIT COUNCIL REQUIREMENTS.

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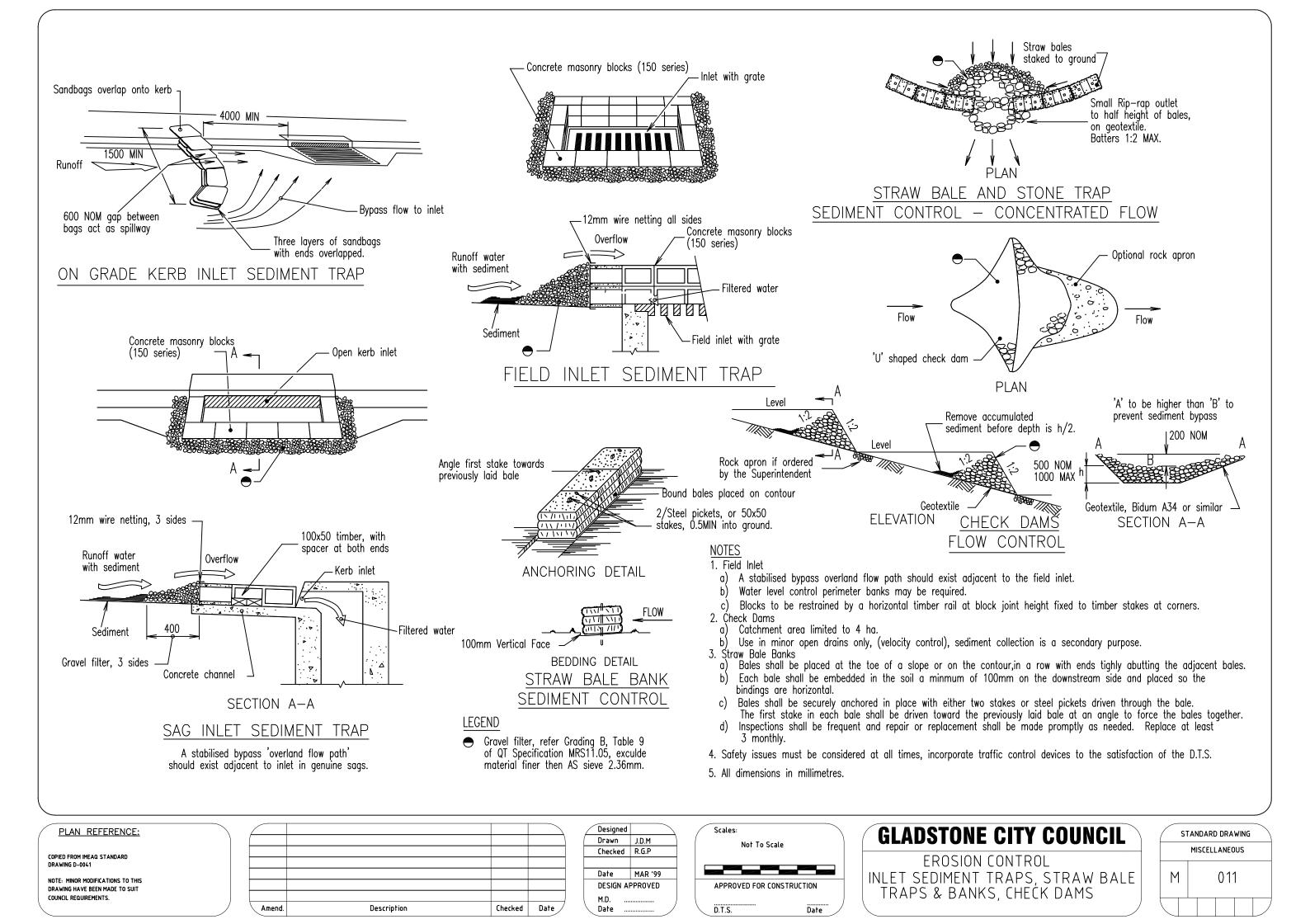
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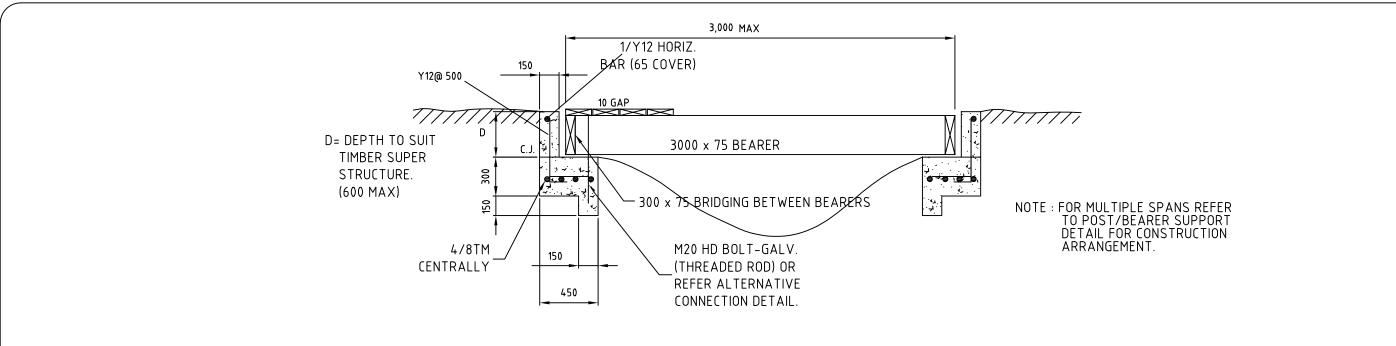


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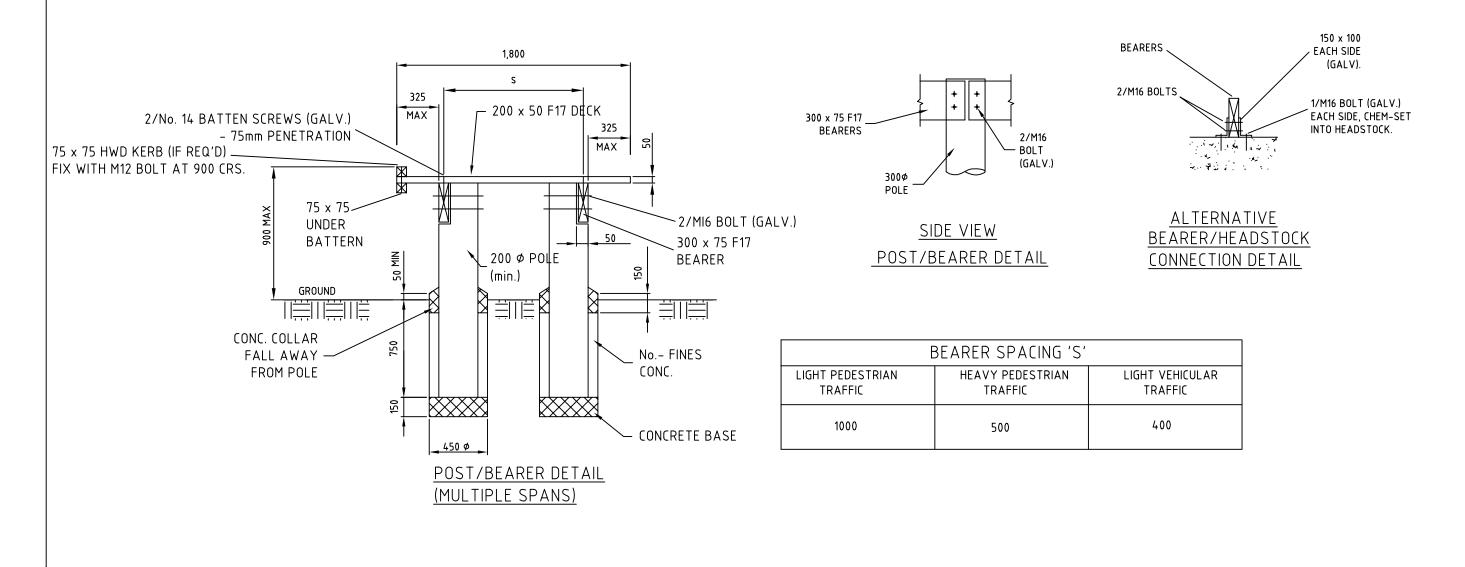
EROSION CONTROL
SEDIMENT TRAP & SEDIMENT FENCE

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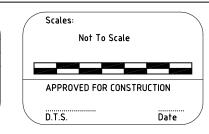
TYPICAL SECTION- PEDESTRIAN BRIDGE (SINGLE SPAN)



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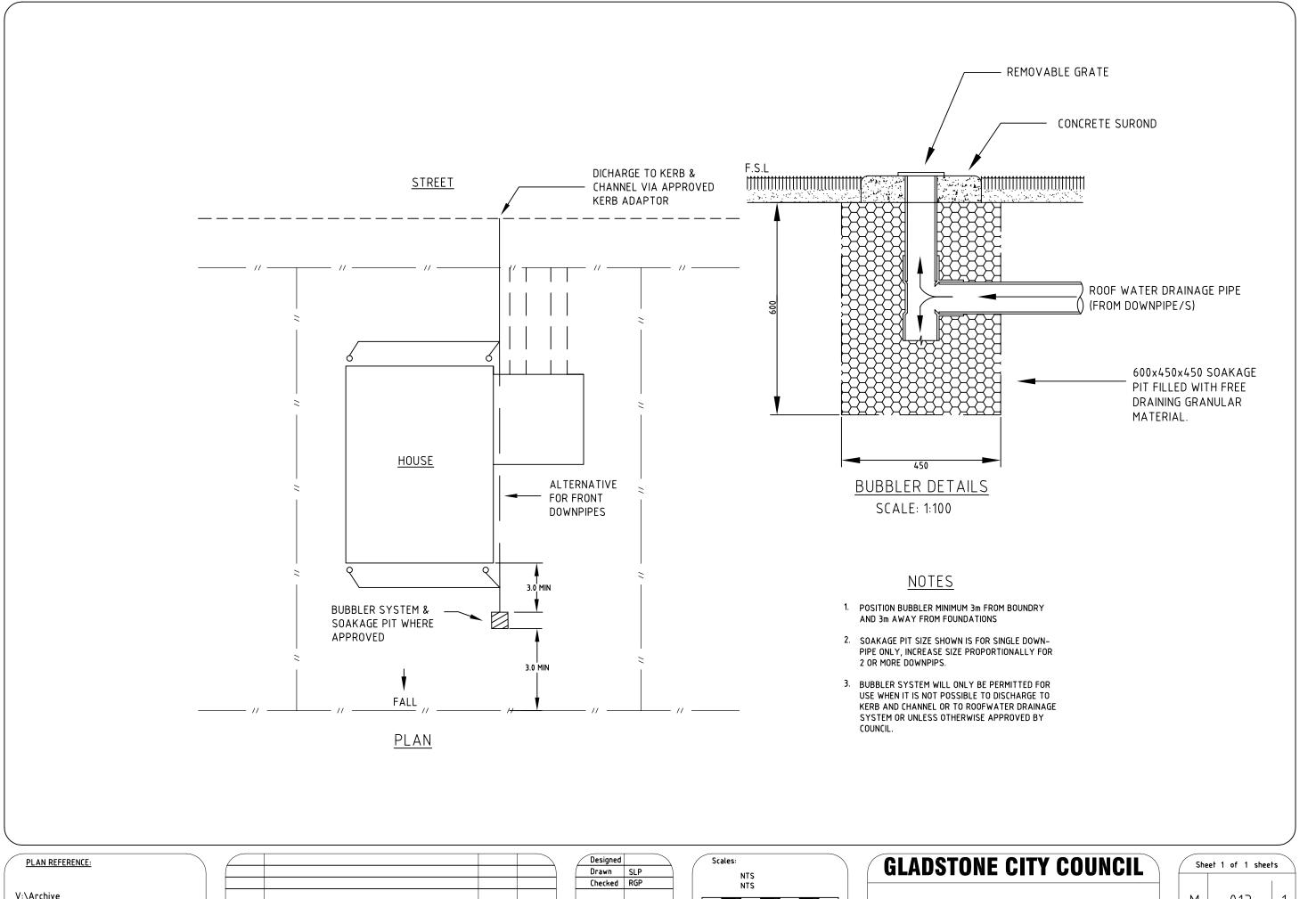
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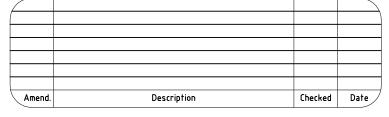
GLADSTONE CITY COUNCIL

PEDESTRIAN FOOT BRIDGE

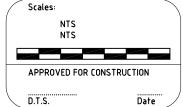
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BUBBLER SYSTEM FOR STORMWATER DISPERSAL

