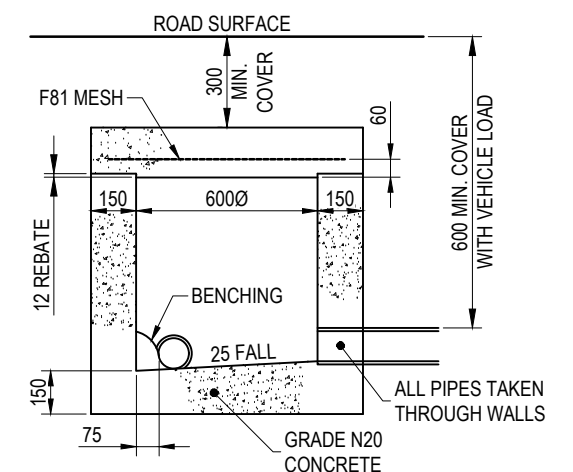
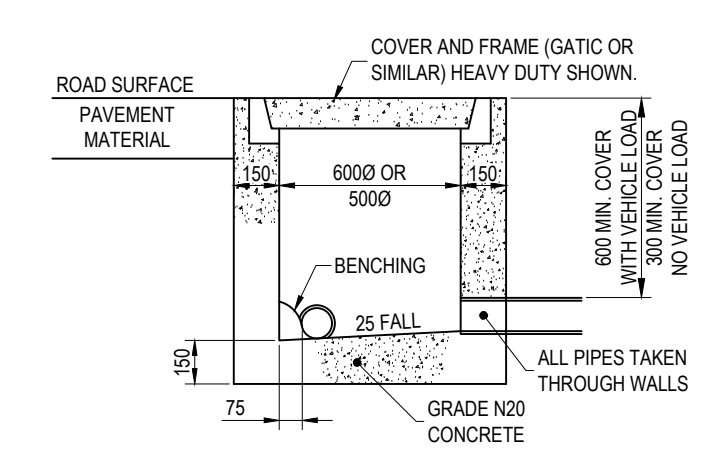
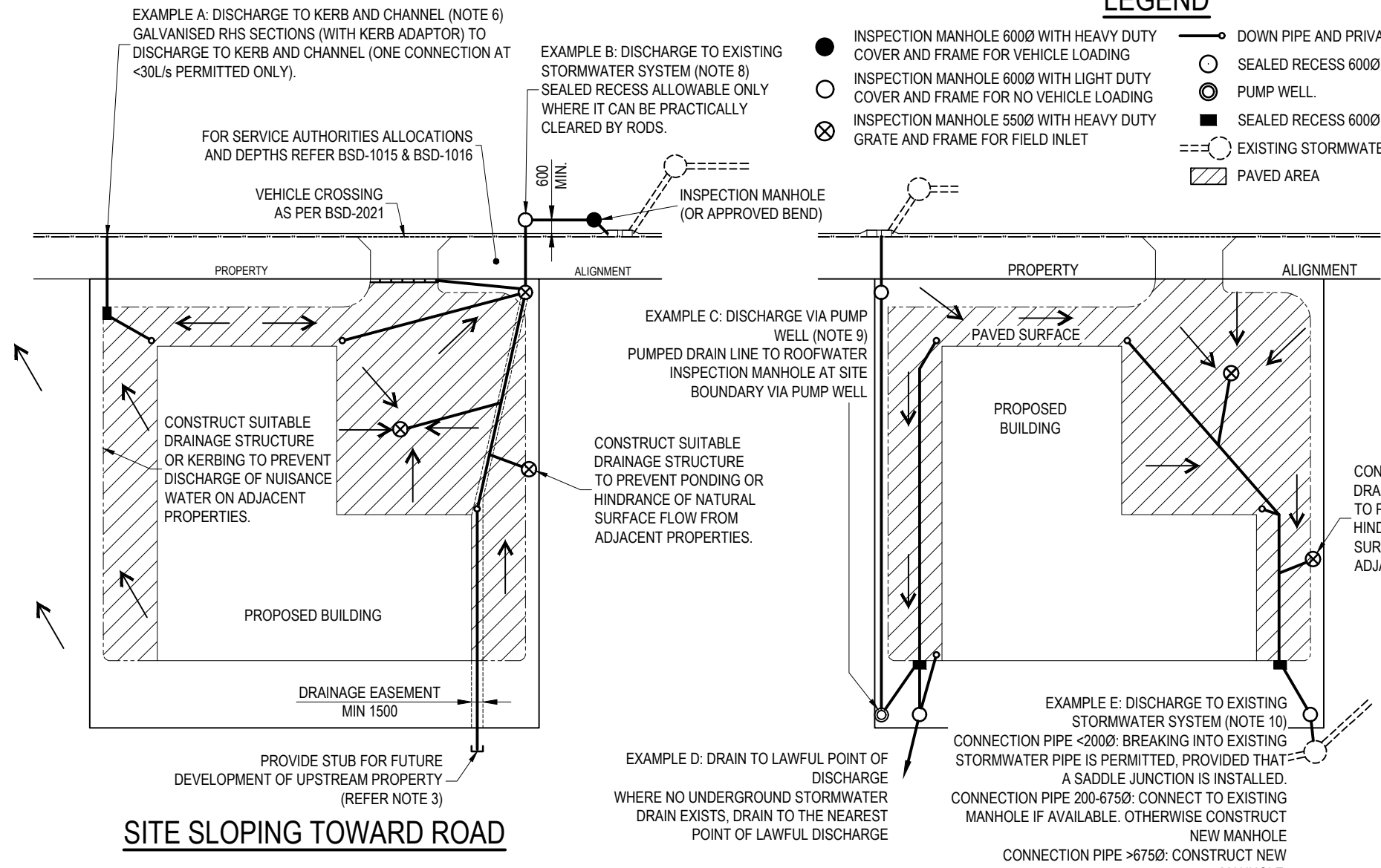


LEGEND

- INSPECTION MANHOLE 600Ø WITH HEAVY DUTY COVER AND FRAME FOR VEHICLE LOADING
- INSPECTION MANHOLE 600Ø WITH LIGHT DUTY COVER AND FRAME FOR NO VEHICLE LOADING
- ⊗ INSPECTION MANHOLE 550Ø WITH HEAVY DUTY GRATE AND FRAME FOR FIELD INLET
- DOWN PIPE AND PRIVATE PROPERTY DRAIN
- SEALED RECESS 600Ø
- ⊙ PUMP WELL
- SEALED RECESS 600Ø
- - - ○ - - - EXISTING STORMWATER SYSTEM
- ▨ PAVED AREA

NOTES:

1. THIS STANDARD DRAWING DEPICTS FIVE TYPICAL EXAMPLES OF HOW ROOF AND SURFACE WATER CAN BE DISCHARGED FROM A DEVELOPMENT (OTHER THAN SINGLE DWELLING). ALL ROOF AND SURFACE WATER MUST BE COLLECTED INTERNALLY AND DRAINED TO A LAWFUL POINT OF DISCHARGE.
2. THE OWNER IS WHOLLY RESPONSIBLE FOR THE ADEQUACY OF THE INTERNAL DRAINAGE SYSTEM AND THE MAINTENANCE OF ALL PRIVATE STORMWATER DRAINS, INCLUDING CONNECTIONS THAT ARE EXTERNAL TO THE SITE.
3. THE MINIMUM PIPE SIZE FOR INTERNAL UNDERGROUND SITE DRAINAGE IS 150 NOMINAL DIAMETER. WHERE THE PIPE ALSO CONVEYS STORMWATER FROM AN ADJOINING UPSTREAM PROPERTY (NOW OR IN FUTURE), THE MINIMUM PIPE SIZE IS 225 DIAMETER. SIZE PIPE TO TAKE INTO ACCOUNT OF ULTIMATE DEVELOPMENT FLOWS FOR INTERNAL AND EXTERNAL CATCHMENTS.
4. PIPE TYPES AND CLASSES TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - UPVC STORMWATER PIPE MANUFACTURED IN ACCORDANCE WITH AS1254.
 - UPVC PIPES AND FITTINGS FOR STORMWATER AND SURFACE WATER APPLICATIONS. LIMIT USE OF THIS PIPE TO DOMESTIC (LOW DENSITY RESIDENTIAL) APPLICATIONS.
 - UPVC SEWER PIPE (MINIMUM CLASS SN8) MANUFACTURED IN ACCORDANCE WITH AS1260
 - PVC PIPES AND FITTINGS FOR DRAIN, WASTE AND VENT APPLICATIONS. THE "ULTRA-RIB" PIPE AND FITTING SYSTEMS MANUFACTURED BY VINIDEX IS ACCEPTABLE.
 - STEEL REINFORCED CONCRETE PIPE (MINIMUM CLASS 2) MANUFACTURED TO AS4058.
 - FIBRE REINFORCED CONCRETE PIPE (MINIMUM CLASS 1) MANUFACTURED TO AS4139.
5. MINIMUM PIPE GRADES TO COMPLY GENERALLY WITH AS3500 NATIONAL PLUMBING AND DRAINAGE CODE PART 3 STORMWATER DRAINAGE:
 - 1.0% GRADE FOR PIPES ≤150 DIAMETER.
 - 0.5% GRADE FOR PIPES >150 BUT <375 DIAMETER.
 - 0.3% GRADE FOR PIPES ≥375 DIAMETER.
6. THE PERMITTED TOTAL DISCHARGE FROM THE DEVELOPMENT TO KERB AND CHANNEL, INCLUDING CONTRIBUTION FROM ANY EXTERNAL CATCHMENT, MUST NOT EXCEED 30L/s.
7. REFER TO BDS-8114 FOR KERB ADAPTOR INSTALLATION.
8. STORMWATER DISCHARGE EXCEEDING 30L/s MUST BE CONNECTED TO AN EXISTING GULLY PIT OR MANHOLE SITUATED WITHIN 50m OFF THE SITE BOUNDARY. WHERE THE CAPACITY OF THE EXISTING STORMWATER DRAINAGE SYSTEM IS DEFICIENT, THE DEVELOPER IS GENERALLY RESPONSIBLE FOR UPGRADING THE PIPE DRAINAGE TO THE APPROPRIATE DESIGN STANDARD IN THE ABSENCE OF AN INFRASTRUCTURE CHARGES PLAN THAT SPECIFIES THE DEVELOPMENT CONTRIBUTION FOR STORMWATER FACILITIES.
9. ALL DISCHARGE FROM PUMP-OUT SYSTEMS FOR ROOFWATER DISPOSAL TO MEET FOLLOWING:
 - NO DIRECT PUMPING INTO COUNCIL OWNED STORMWATER INFRASTRUCTURE. PUMP DISCHARGE IS TO BE DIRECTED INTO A ROOFWATER INSPECTION MANHOLE AT SITE BOUNDARY AND GRAVITY DRAIN INTO GULLY PIT IN ROAD RESERVE.
 - COUNCIL WILL ONLY CONSIDER A PUMPED ROOFWATER DRAINAGE SYSTEM FOR A LAWFUL POINT OF DISCHARGE WHERE LETTERS OF REFUSAL ARE PROVIDED FROM DOWNSTREAM PROPERTY OWNERS FOR CONSENT TO ACCEPT DRAINAGE VIA GRAVITY DRAINED SYSTEMS
 - ALL PUMP STORAGE TO BE DESIGNED FOR THE 5% AEP STORM EVENT WHERE PROVIDING A LAWFUL POINT OF DISCHARGE (AS PER ROOFWATER DESIGN STANDARD)
10. WHERE THE CAPACITY OF THE EXISTING STORMWATER DRAINAGE SYSTEM IS DEFICIENT, THE DEVELOPER IS GENERALLY RESPONSIBLE FOR UPGRADING THE PIPE DRAINAGE TO THE APPROPRIATE DESIGN STANDARD. DISCHARGE TO THE EXISTING STORMWATER SYSTEM MUST BE LIMITED TO ONE CONNECTION (BEING KERB ADAPTOR, GULLY OR MANHOLE).
11. MAXIMUM PIPE SIZE FOR PRIVATE STORMWATER CONNECTION TO BACK OF EXISTING GULLY TO BE 300MM OR LESS, OTHERWISE CONNECTION TO STORMWATER MANHOLE REQUIRED
12. DIMENSIONS IN MILLIMETRES U.N.O.



INSPECTION MANHOLE
600Ø OR 550Ø

SEALED RECESS 600Ø

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
C	Note 7 Reference Updated, Notes 1, 9 & 10 Revised, Note 11 Added	OCT '17	AUG '18	NOV '18
B	Note 4 Amended - SN6 changed to SN8	FEB '16	JUL '16	JUL '16
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14

DRAWING AUTHORISED FOR PUBLICATION
B. BALL SIGNATURE ON ORIGINAL DATED 29/6/01
ASSET ENGINEERING MANAGER
STRATEGIC ASSET MANAGEMENT
DESIGN APPROVED
B. HANSEN SIGNATURE ON ORIGINAL DATED 27/6/01
PRINCIPLE ASSET OFFICER
ROADS & DRAINAGE

DESIGN	Std Dwgs WG	DATE	April '01
DRAWN	CPD - P&D	DATE	April '01
CHECKED	M. STEER	DATE	May '01
DRAWING FILENAME	BSD-8113 (C) Roof and surface water drainage for site developments.dwg		
ASSOCIATED PLANS	SUPERSEDES UMS-353		



BRISBANE CITY COUNCIL STANDARD DRAWING

SCALE: NOT TO SCALE

DWG No: **BSD-8113**

ORIGINAL SIZE: A3

REVISION: C

ROOF AND SURFACE WATER DRAINAGE FOR SITE DEVELOPMENTS