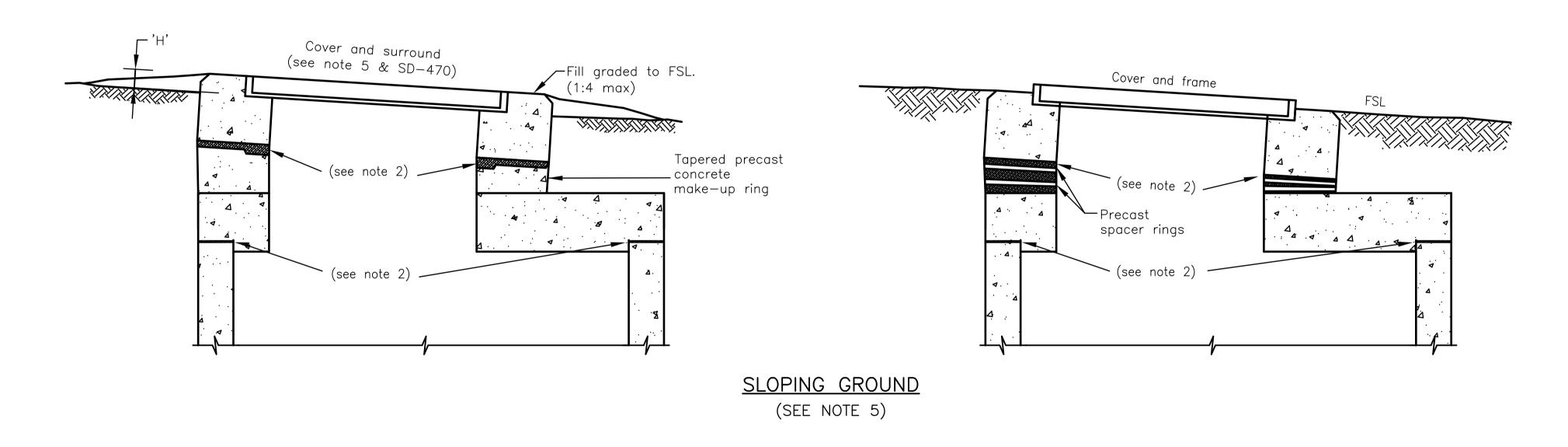


PRECAST & CAST IN-SITU MAINTENANCE HOLES



NON TRAFFICABLE COVERS

TRAFFICABLE COVERS

SELECTION OF MH COVERS ALL COVERS TO BE WATER TIGHT (SEE NOTE 6) LOCATION CLASS B - NON-TRAFFICABLE RESERVES D - TRAFFICABLE ROADWAYS D - TRAFFICABLE LOCATIONS SUBJECT WITH BOLT-DOWN TO FLOODING etc. (SEE NOTE 3)

FINISHED LEVELS OF MH COVERS				
LOCATION	Н			
UNDEVELOPED AREAS	150			
NEW SUBDIVISIONS	150			
ROADS, LANE WAYS, FOOTWAYS & DRIVEWAYS	FLUSH			
EXISTING BUILT UP AREAS				
OTHER AS SPECIFIED (EG ABOVE FLOOD LEVEL)				

- All dimensions are in millimetres unless noted otherwise.
- 2. Sealing methods
 - (a) make joints between shaft top/make-up ring and cover support ring using

 - Mortar made from 3 parts sand to 1 part cement.
 - (b) Apply butyl—mastic in accordance with manufacturers specification.
 - (c) Thickness of cement mortar at any joint to be no greater than 50.
 - (d) Scabble and clean joint surfaces so that all loose or soft material
- (e) Joint surfaces to be brushed clean, sponged wet and primed with a cement/water slurry prior to placing the cement mortar.
- 3. In areas subject to surcharge, use cast in—situ mh dowel or bolt cover slabs, DI cover and frame to the shaft section in such a manner that separation during surcharge is prevented. See SD-470.
- 4. Where specified join metal frame to cast in—situ MH riser as follows:
 - (a) Make joints between shaft top and metal frame using butyl—mastic and locking down bolts, equally placed around the circumference.
 - (b) Use 12 diameter galvanised or stainless steel bolts extending 75 min into concrete.
 - (c) For non—trafficable locations use a minimum of two bolts.
 - (d) For trafficable locations use a minimum of four bolts.

5. Maximum permissible slope of covers: Class "B" 1 in 4

Class "D" 1 in 10

6. Maintenance hole covers and frames shall be cast iron or ductile, iron water tight and gas tight to 1.5kpa, in accordance with AS3996.

	NOTES: BASED ON FORMER WSAA DRAWING SEW-1308	Full Size A1	DRAWN: DESIGN OFFICE	CHECKED: D. MOSELEY		MAINTENANCE HOLES	STANDARD
			Design Engineer Approved: Origi	nal signed by P. TURL	一 香。	TYPICAL MH COVER ARRANGEMENTS	DRAWING
B NOTES AMENDED		Not to Scale	Date: 26/07/2012	······		THICAL WITH COVER ARRANGEWILINGS	SEWERAGE
A ORIGINAL ISSUE No. DATE DESCRIPTION AP'D			Manager Approved: Original sign	ed by P. MENDIOLEA	City of Townsville		•
REVISIONS			Date: 26/07/2012		Ph: (07) 4727 9000 www.townsville.qld.gov.au		SD-475 B