

Bridge Management System CULVERT Inventory Sheet

Structure No	R072_02E_C4047
Structure Name	Bokness River Tributary 2

Location Details

N-Route No. :	R072	Primary Feature :	River or Stream
Section No. :	02E	Feature Name :	Tributary to Boknes River
Route Description :		Feature Road No. :	
Route km :	0.22	Feature Road km :	
N-Route Over/Under :	Over	Farm :	
Province :		Secondary Feature :	N/A
Magisterial District :		Secondary Feature Name :	
Other Authority :	Not Applicable	Other Bridge No. :	IDC4047
Orientation :	North/South	Elevation (m) :	
		Direction of River Flow :	South

1:50,000 TOPOGRAPHICAL MAP	GIS Coordinates
Map Name :	Latitude (South)
Map No. :	Longitude (East)
Survey System :	Start :
	End :

Contract Details

Design Engineers :		Contract Number :	
Contractors :		Year Built :	2016
Contract Price :		Completion Time :	
Escalated Cost :			
Total Cost (Design & Construct) :			

Structural Features

No. of Cells :	3	fcu Cells - Precast :	
Culvert Type :	Concrete pipe	fcu Cells - Insitu :	
Culvert Description :	Stream-River-Stormwater Culvert	fcu Apron Slabs & Cut Walls :	
Purpose of Culvert :		fcu Wing/Ret Walls :	MPa
Parapet/Handrail Type :	Guardrail	fcu Road Slabs :	MPa
Culvert Road Slabs :			
Approach Road Slabs :			
In/Outlet Walls :			
Causeway :			
Buried Structure :			
Floor Slope :			degrees

Cell

Position	Material (Walls)	Material (Top Slab)	Foundation Type	Founding Material	Internal Width (m)	Internal Height (m)
C1 to C4	Reinforced Concrete	Reinforced Concrete			1.60	1.60

Invert Slabs

Position	Type	Material	Thickness
C1 to C4	Monolithic slab	Reinforced Concrete	0.10

Apron Slabs

Position	Material	Thickness
E1,E2	Reinforced Concrete	0.20

Cut-off Walls

Position	Material	Width	Depth
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Embankment Protection

Position	Material	Thickness	Slope
E1,E2	Vegetation	0.10	

Dissipators

Position	Type	Material
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Wing/Retaining Walls

Position	Type	Material	Foundation Type	Founding Material	Hmax	Dmax
E1,E2	Cantilever wall	Reinforced Concrete	Spread footings	Engineered Fill	1.90	0.40

Design Characteristics

Design Live Loading :
Design Code(s) :

Warrant History :
% Inc. Due to Overloading : %

Hydraulic Data

Catchment Area : km2
Design Return Period : years
Design Discharge : m3/sec
Design Flood Level : m above msl
Design Freeboard : m
Soffit Level : m above msl
Peak Flood Level : m above msl
Ht above/below Soffit : m

Peak Discharge Year :
Scour Protection : None
Risk of Scour : No
Max Scour Depth : m
Design Scour Depth : m
Angle Cell/River Flow : degrees

Drainage

Road Surface :
Cell/s :
Wing/Ret. Walls :
Sub-surface Seepage Drains :

Dimensions, Geometry and Road Clearances

Overall Length : 9.9 m
Overall Width : 19.3 m
Min Clear Width : m
Overall Cell Length : 22.3 m
Carriageway :
Direction Traffic :
Min Road Width : 11.8 m
Approach Width : 11.8 m
Opening Area : 7.68 m2

Vertical Alignment :
Horizontal Alignment :
Camber/Crossfall :
Angle of Skew : degrees
Max Fill Height : 0.3 m
Slope of Invert Slab : %
Min Vert. Clearance : 1.6 m
Max Cell Size - Width : 1.6 m
Max Cell Size - Height : 1.6 m
Min Depth of Fill Over : 0.3 m

Services

Type	Description	Location	Authority
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Road Type, Traffic Volumes and Surfacing

	Road Over	Road
Class of Road :		
No. of Carriageways :		
Names of Carriageways :		
No./Dimensions of Lanes (m) :		
No./Dimensions of Shoulders (m) :		
No./Dimensions of Sidewalks (m) :		
Average Daily Traffic :		
Year ADT Recorded :		
Truck Factor (%) :		
Detour Length (km) :		
Minimum Class of Detour :		
Surface Slab :		
Surface Approach :		

Archive Details

Project No. :		Correspondence File :		Strip Map :	
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Drawing No.	Title	Location	Type
Microfilm No.	Title	Location	

Maintenance Agreements and Responsibilities

Responsibilities :	
Agreement No. :	
Share of Costs :	
Agreement Location :	

Maintenance History

Details	Design Engineer	Contractor	Completion Date	Cost
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Widening, Strengthening, Retrofitting

Details	Design Engineer	Contractor	Completion Date	Cost
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Additional Remarks

Remarks :	
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Factors Influencing Field Inspection

Access :	Require bush clearing	Availability of Drawings :	
Effective Cell Opening :			m2
General Info :			