

2088



25mm CHAMFE TYPICAL (TOP	
	1450
UTILITY ANCHOR——	SEE CHART
RECESSED OPENING IN FLOOR VARIES DEPENDING ON PIPE S INVERT OF PIPE TO BE FLUSH	ZE TO ALLOW

1450H HEADWALL

STANDARD PIPE OPENINGS

1450H HEADWALL

SPECIAL PIPE OPENINGS

OPENING

1200mm (50°

OPENING

450mm (18")

550mm (22"

600mm (24")

700mm (28"

800mm (32")

1000mm (40") PRODUCT CODE: D40HEADWALL

PRODUCT CODE: D50HEADWALL

RCP SIZE

750mm

900mm

RCP SIZE

300mm

375mm

450mm

525mm

600mm

1450 H	IEADWALL	
CENTERLINE (mm)		
DPENING	DIST. TO Q	
450	364	
550	414	
600	452	
700	502	
800	539	
1000	639	
1200	764	

<u>FRONT</u>

1450H DRIVEWAY HEADWALL MAY ACCOMMODATE ALL PIPE SIZES FROM 300mm TO 750mm

<u>SIDE</u>

## NOTES:

<u>GENERAL</u>

1. FOR HANDLING, STORAGE, TRANSPORTATION AND ERECTION PROCEDURES PLEASE REFER TO "PRECAST HEADWALL INSTALLATION GUIDE" AND "DAYTON/RICHMOND GUIDELINES FOR HANDLING CONCRETE PIPE AND UTILITY PRODUCTS".

2. WEIGHT = 1600 kgs 3. TOLERANCE FOR STRUCTURAL ELEMENTS, MATERIALS & CONSTRUCTION CONFORM TO CAN/CSA A23.4 "PRECAST CONCRETE" CLAUSE 10.

**GEOTECHNICAL** 

1. GEOTECHNICAL ENGINEER TO PROVIDE ON-SITE INSPECTION FOR PLACEMENT AND COMPACTION OF BACKFILL.

<u>DESIGN</u>

1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH CAN/CSA S6.06 UNDER THE FOLLOWING DESIGN PARAMETERS: - DESIGN DEAD LOAD = 2H:1V EARTH FILL TOP SLOPE. - CONCRETE UNIT WEIGHT = 24.0 kN/m<sup>3</sup> - SOIL/BACKFILL UNIT WEIGHT =  $22.0 \text{ kN/m}^3$ 

<u>REINFORCEMENT</u>

1. ALL REINFORCING STEEL SHALL BE GRADE 400W AND CONFORM TO CAN/CSA G30.18 (LATEST EDITION).

2. ALL WELDED WIRE MESH SHALL HAVE A Fy = 485 MPA AND CONFORM TO ASTM A496 AND A497.

3. ALL REINFORCING SHALL BE DETAILED, FABRICATED, PLACED AND SUPPORTED IN ACCORDANCE WITH CAN/CSA A23.4 (LATEST EDITION).

4. THE CONCRETE COVER OVER PRINCIPAL REINFORCING SHALL BE 50mm ± 10mm AS REQUIRED BY ENVIRONMENTAL EXPOSURE 8.11.2.2 (a) IN CAN/CSA

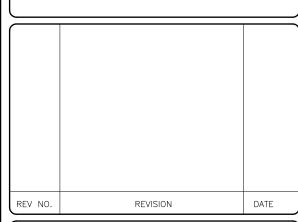
<u>CONCRETE</u>

1. CONCRETE MIX DESIGNS SHALL CONFORM TO REQUIREMENTS SET FORTH IN CAN/CSA A23.1 EXPOSURE CLASS F-1: - CONCRETE STRENGTH = 24 MPA AT TIME OF DESIGN CONCRETE STRENGTH OF 45 MPA AT 28 DAYS
OR TIME OF SHIPPING - 5% TO 7% AIR ENTRAINMENT

- GALLANT AGGREGATE SHALL BE USED WITH A NOMINAL AGGREGATE SIZE OF 13mm 2. CONCRETE CURING SHALL BE IN CONFORMANCE WITH

CAN/CSA A23.1 (LATEST EDITION).

3. SHAW CONCRETE BATCH No. SHALL BE 406.





STD-HW1450

PROJECT TITLE: STANDARD PRODUCT

DRAWING TITLE:
1450H DRIVEWAY HEADWALL
TO SUIT 300Ø – 900Ø PIPE

M.CAMERON

SHEET 1 OF