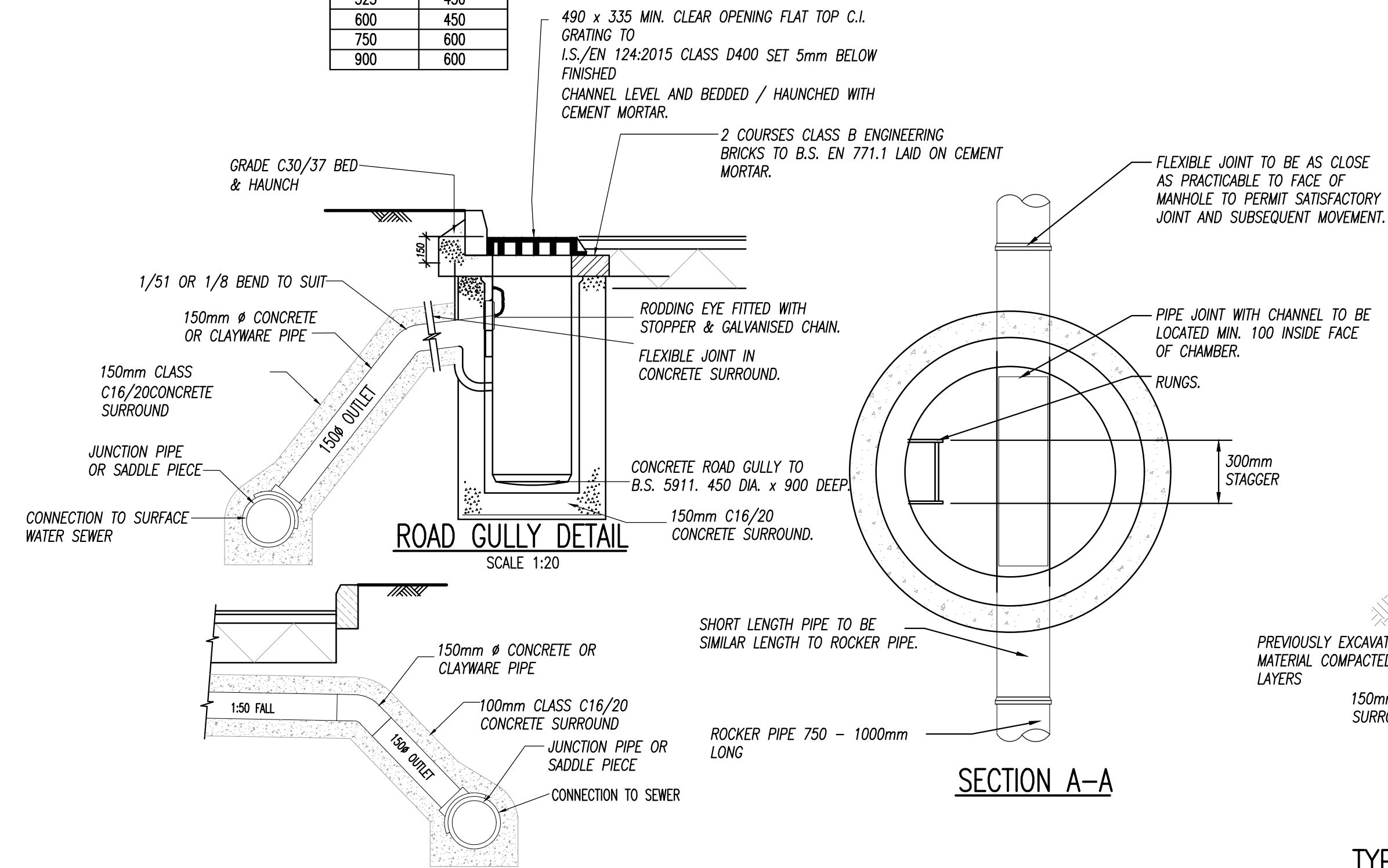


TYPICAL BACKDROP DETAIL

INLET DIA. (mm)	DROP DIA. (mm)
225	300
300	375
375	375
450	450
525	450
600	450
750	600
900	600

PRECAST CONCRETE RING MANHOLE DETAIL TYPE J (GSDS)

SCALE 1:25



ROAD GULLY DETAIL

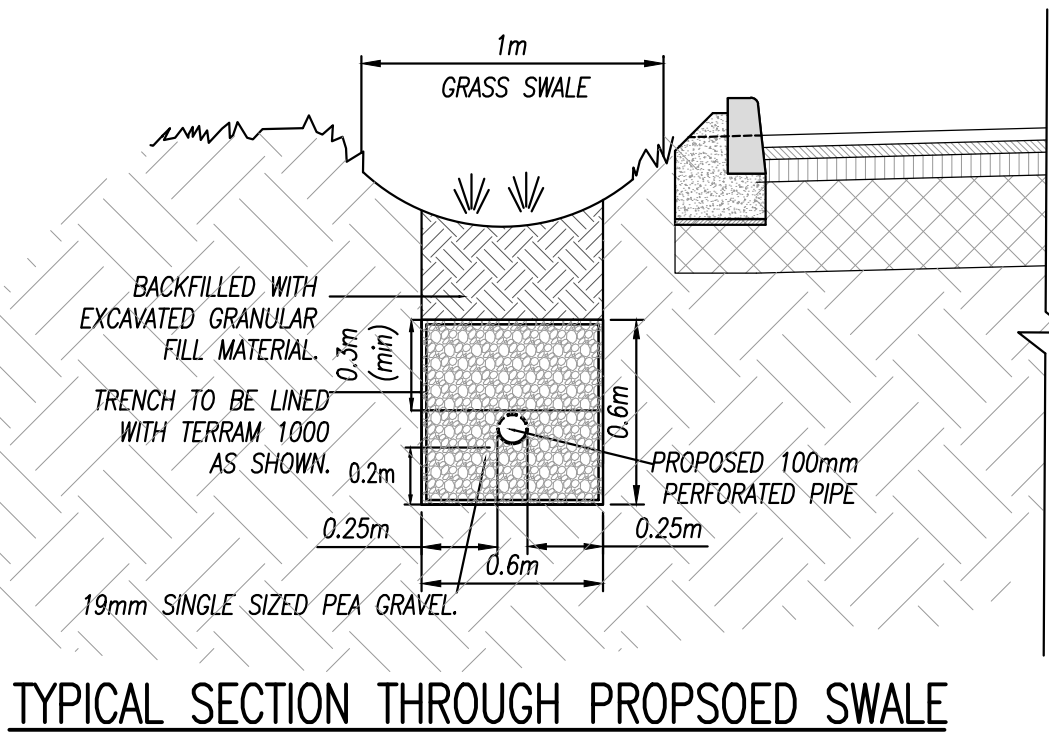
SCALE 1:20

TYPICAL SADDLE CONNECTION

SCALE 1:25 @ A1

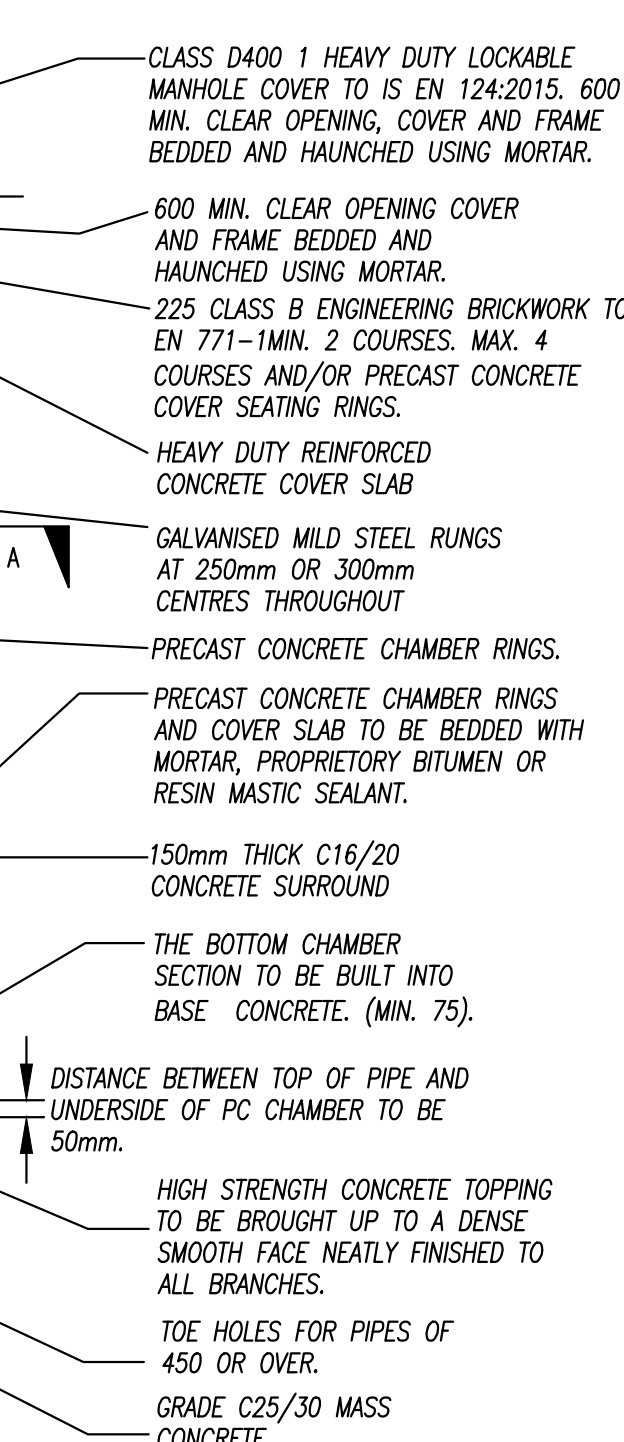
NORMAL INTERNAL DIAMETER	MINIMUM TRENCH WIDTH mm	MAXIMUM TRENCH WIDTH mm
100	450	650
150	500	700
225	600	800
300	700	900
375	950	1150
450	1050	1250
525	1150	1350
600	1250	1450
675	1350	1550
750	1400	1600
825	1500	1700
900	1950	2150
1050	2100	2300
1200	2300	2500
ABOVE 1200	PIPE DIAMETER PLUS 800mm	OUTSIDE DIAMETER PLUS 1000mm

MAXIMUM AND MINIMUM TRENCH WIDTHS



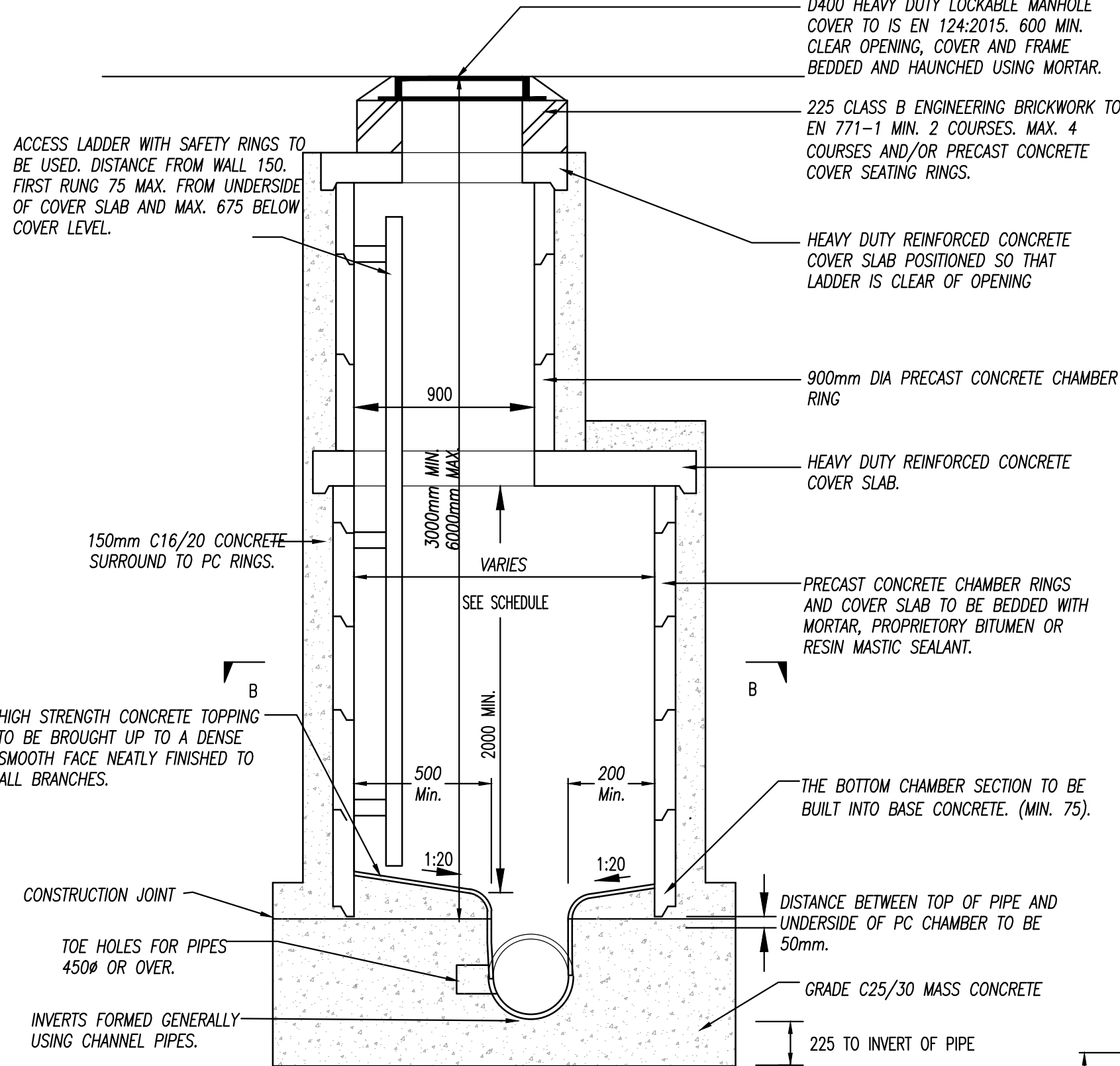
TYPICAL SECTION THROUGH PROPOSED SWALE

SCALE 1:25 @A1



PRECAST CONCRETE RING MANHOLE DETAIL TYPE J (GSDS)

SCALE 1:25

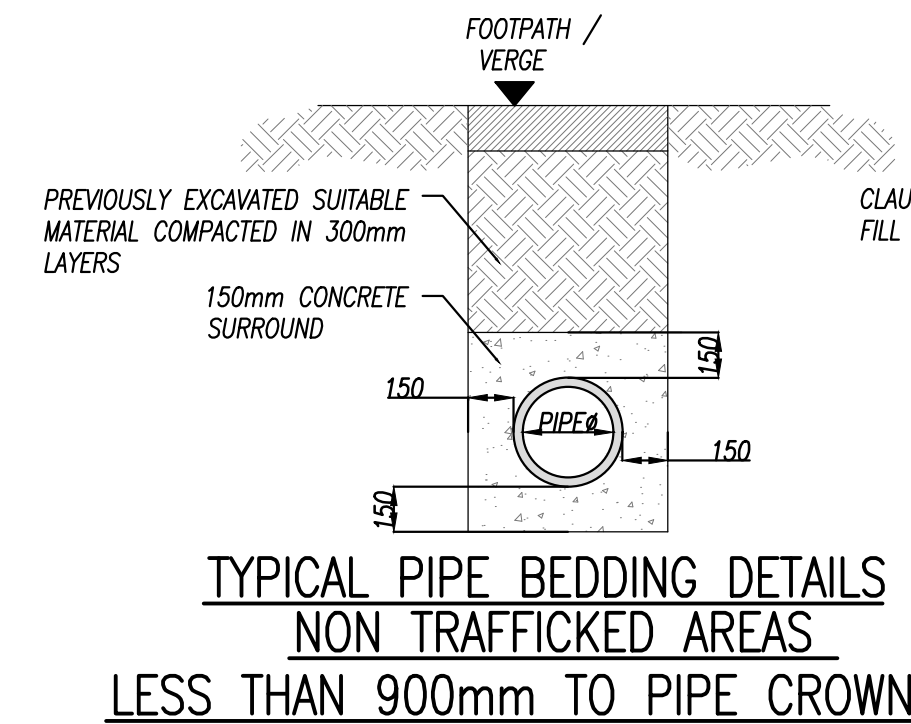


PRECAST CONCRETE RING MANHOLE TYPE K

SCALE 1:25

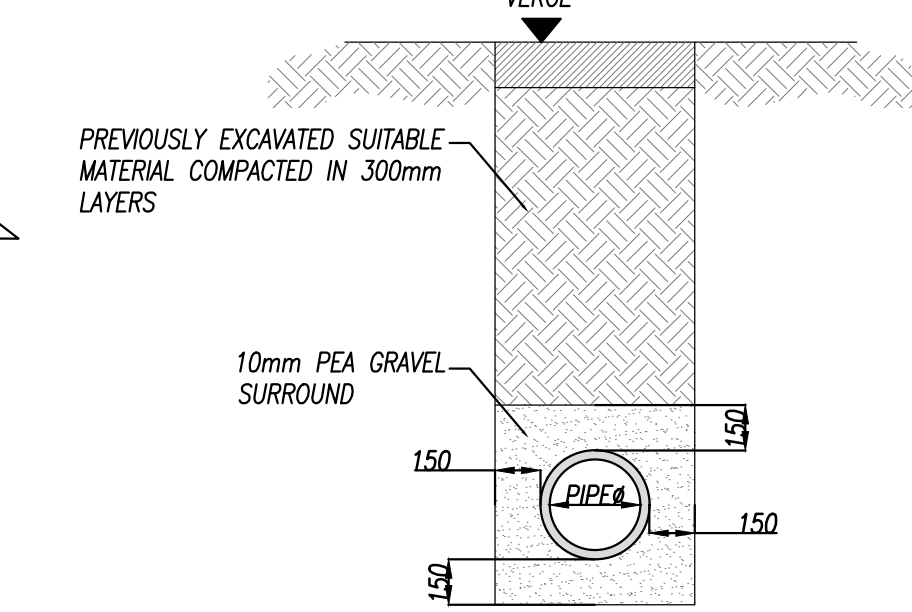
PIPE DIAMETER	ROCKER PIPE LENGTH
150 - 450	0.5 - 0.75
451 - 750	0.75 - 1.0
750 >	SEEK GUIDANCE

DIAMETER OF LARGEST PIPE IN MANHOLE	PRECAST CONCRETE RING SIZE
LESS THAN 375mm	1200mm DIA
375mm TO 450mm	1350mm DIA
450mm TO 700mm	1500mm DIA
700mm TO 900mm	1800mm DIA
900mm TO 1200mm	2100mm DIA
1200mm AND ABOVE	2400mm DIA



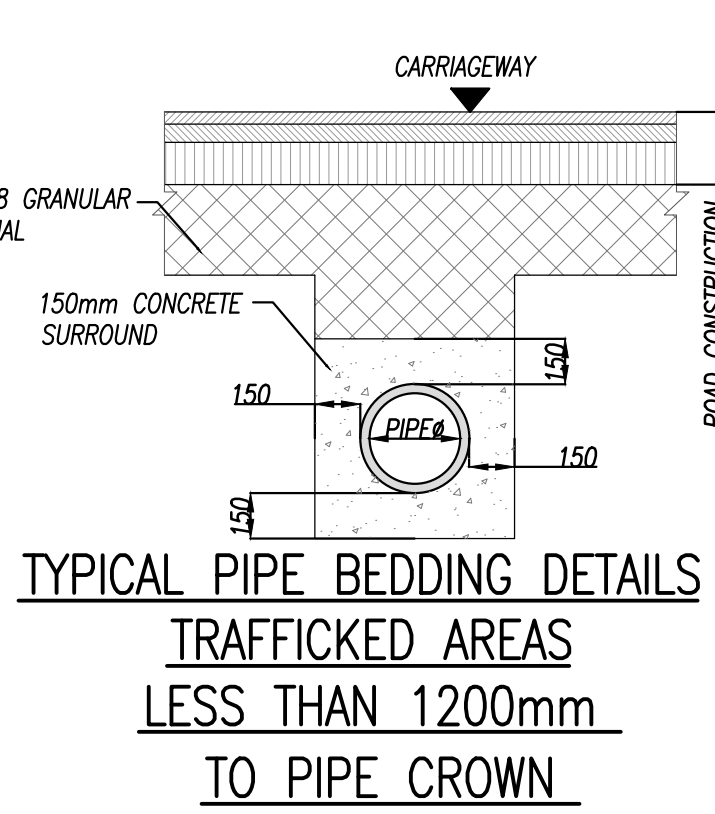
TYPICAL PIPE BEDDING DETAILS  
NON TRAFFICKED AREAS  
LESS THAN 900mm TO PIPE CROWN

SCALE 1:25



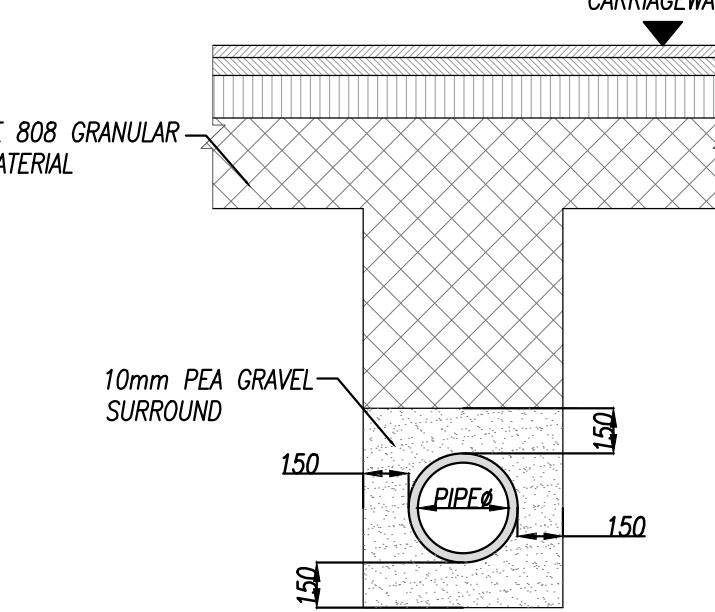
TYPICAL PIPE BEDDING DETAILS  
NON TRAFFICKED AREAS  
GREATER THAN 900mm TO PIPE CROWN

SCALE 1:25



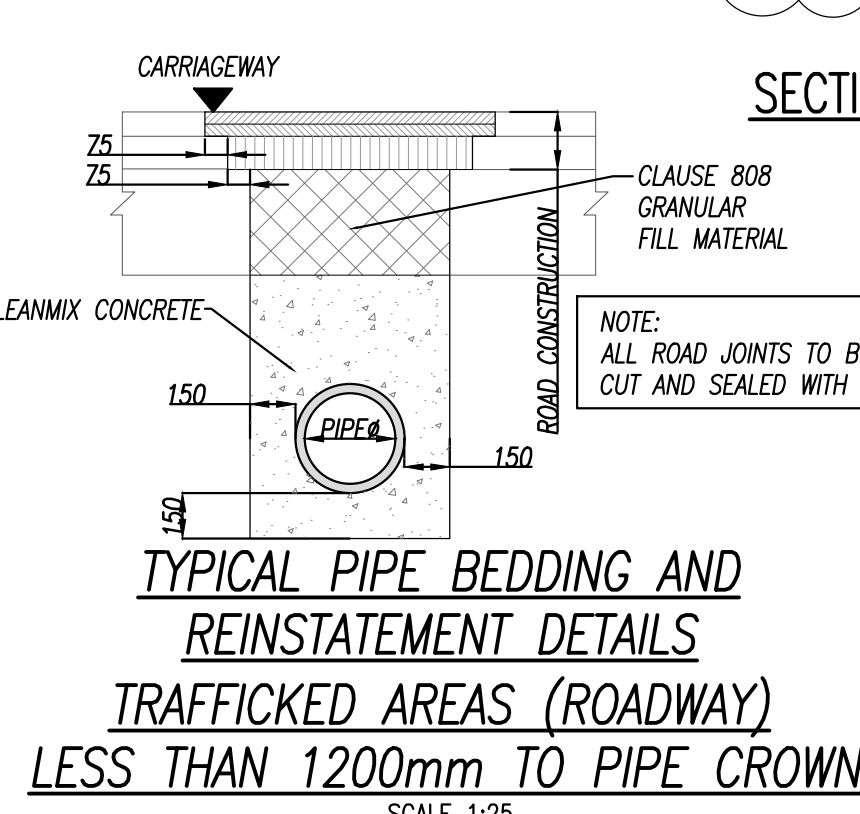
TYPICAL PIPE BEDDING DETAILS  
TRAFFICKED AREAS  
LESS THAN 1200mm  
TO PIPE CROWN

SCALE 1:25



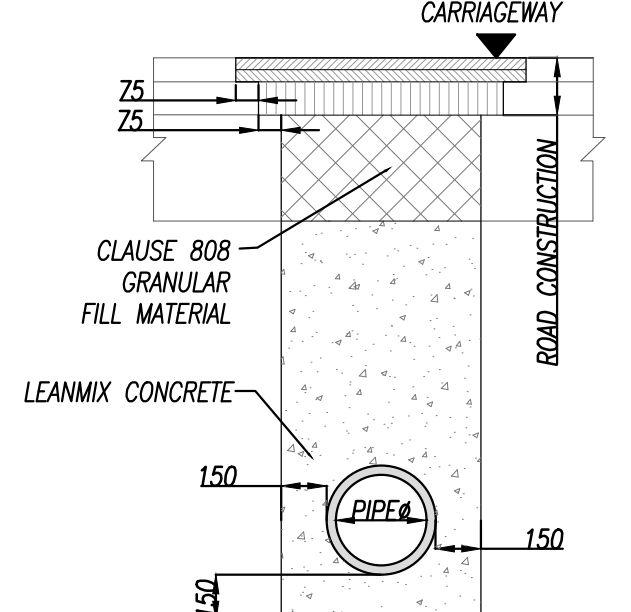
TYPICAL PIPE BEDDING DETAILS  
TRAFFICKED AREAS  
GREATER THAN 1200mm TO PIPE CROWN

SCALE 1:25



TYPICAL PIPE BEDDING AND  
REINSTATEMENT DETAILS  
TRAFFICKED AREAS (ROADWAY)  
LESS THAN 1200mm TO PIPE CROWN

SCALE 1:25



TYPICAL PIPE BEDDING AND REINSTATEMENT  
DETAILS TRAFFICKED AREAS (ROADWAY)  
GREATER THAN 1200mm TO PIPE CROWN

SCALE 1:25

This drawing should not be scaled. Dimensions to be verified on site.  
Any discrepancies should be referred to the Engineer prior to work being put in hand.  
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1-855 1 864 8900

NOTES:

- DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.
- TYPE A GRANULAR FILL SHALL CONSIST OF WASHED PEA GRAVEL. ALL MATERIAL SHALL PASS A 19MM B.S. SIEVE TEST AND SHALL BE RETAINED BY A 4.75MM B.S. SIEVE TEST. SELECTED FILL SHALL BE FREE FROM STONES GREATER THAN 25MM IN SIZE, BUILDERS RUBBLE, VEGETABLE MATTER AND LUMPS OF CLAY GREATER THAN 75MM IN SIZE AND SHALL BE COMPACTED IN 150MM LAYERS.
- IN OPEN SPACES BACKFILL SHALL CONSIST OF SUITABLE SELECTED EXCAVATED MATERIAL. UNDER PAVED AREAS BACKFILL SHALL CONSIST OF SUITABLE APPROVED GRANULAR FILL. GENERAL BACKFILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300MM THICK.
- CONCRETE BED AND SURROUND SHALL BE USED ON ALL PIPES WHERE COVER TO THE SOFFIT OF THE PIPE IS LESS THAN 1.2M IN ROADS, FOOTPATHS AND GRASS MARGINS AND 0.9M IN OPEN SPACES AND FIELDS.
- ALL CONCRETE FOR PIPE BEDDING, HAUNCHING AND SURROUNDS SHALL BE GRADE 20N/20.
- ALL MANHOLES SHALL BE WATERTIGHT TO THE SATISFACTION OF THE ENGINEER.
- FORMWORK TO REINFORCED CONCRETE AND MASS CONCRETE SHALL BE CLASS F2.
- CLASS U2 FINISH TO THE TOP OF SLABS. REINFORCEMENT TO SLABS TO ENGINEERS DETAILS.
- 200MM THICK CL. 30/20 MASS CONCRETE FOUNDATIONS. 225 THICK PRECAST R.C. ROOF SLAB IN CL. 30/20 CONCRETE. COVER TO STEEL TO BE 40MM.
- TOE HOLES TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 450MM DIAMETER FOR ACCESS TO INVERT. SAFETY CHAIN ON SEWERS 600MM. DIAM. OR GREATER MILD STEEL SAFETY CHAIN SHALL BE 10MM. NOMINAL SIZE GRADE M(H) NON CALIBRATED CHAIN, TYPE 1, COMPLYING WITH BS4942 PART 2. WHEN DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.5M, LADDERS SHALL BE USED INSTEAD OF RUNGS. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF BS4211 EXCEPT THAT STRINGERS SHOULD NOT BE LESS THAN 65 X 20MM IN SECTION AND RUNGS 25MM IN DIAMETER.
- LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 3.0M. STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL.
- ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAIN, ETC. SHALL BE HOT DIPPED GALVANISED TO BS729. 16. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL COUNCIL COUNCIL.

P1	16/04/25	LRD STAGE 3 PLANNING SUBMISSION	GB	EC
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Amendments

Project

WOODTOWN, BALLYCULLEN

Title

PUBLIC SURFACE WATER DRAINAGE DETAILS

Client

LAGAN HOMES BALLYCULLEN LIMITED

Status

PLANNING

Designed By EC Approved JG Waterman Ref 24-007

Drawn By GB Date APRIL 2025 Scales @ A1 AS SHOWN

Project - Originator - Volume - Level - Type - Role - Number

BYCN- WM - 00 -XX-DR- C -P1230 P1

Block S, Eastpoint Business Park, Alfie Byrne Road, Dublin D03 H3F4 Ireland. Tel: (01) 864 8900 Email: info@waterman-moylan.ie www.waterman-moylan.ie

Drawing Location: \\wfiles\moylan\25-25\Projects\24\24-007 Woodtown Ballycullen Drawings\Waterman Civil\Planning\Autocad Drawings\BYCN-WM-ZZ-XX-DR-C-P1230 - Public Surface Water Drainage Details.dwg

Date: 16/04/25 2:59pm