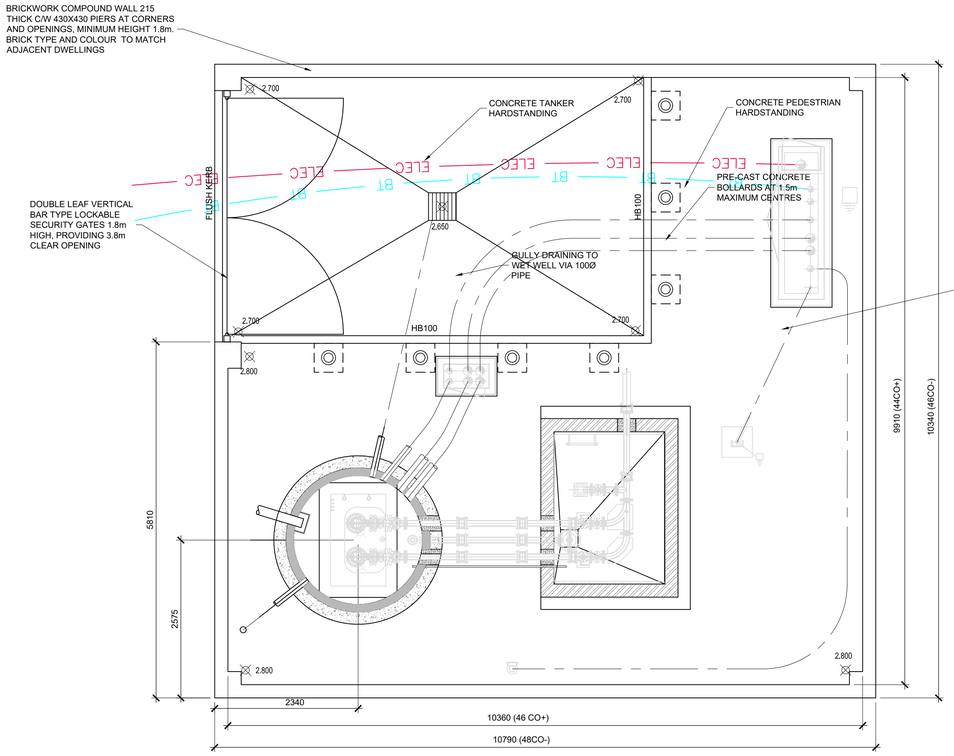
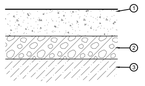


PLAN ON PUMP STATION COMPOUND
1:50

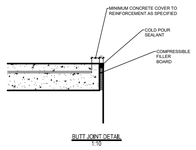


TYPICAL CONSTRUCTION DETAIL CONCRETE HARDSTANDING
SCALE 1:10

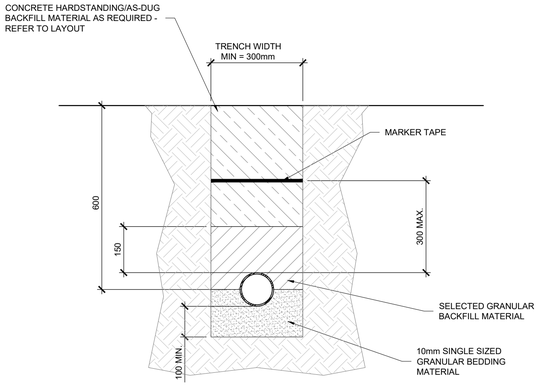
	LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)	
			TANKER HARDSTANDING	PEDESTRIAN AREAS
CONCRETE HARDSTANDING AREAS	SURFACE COURSE	**CONCRETE:** DESIGNATED MIX PAV2 AIR-ENTRAINED CONCRETE TO BS8500-1 AND BS EN 206-1, c/w A252 MESH IN TOP FACE. CAST ON A 1200 GAUGE PLASTIC SHEET SLIP MEMBRANE WITH 300mm OVERLAPS AT ENDS AND EDGES. BRUSH FINISHED TO PROVIDE A LIGHTLY TEXTURED SURFACE.	175	100
	SUB-BASE	TYPE 1 GRANULAR SUB-BASE TO HIGHWAYS AGENCY MANUAL MCHW1 CLAUSE 803. SUB BASE TO BE WELL COMPACTED IN ACCORDANCE WITH MCHW1 SERIES 800.	300	150
	CAPPING/FILL	CLASS 1 GRANULAR FILL MATERIAL TO TABLE 6/1 AND COMPACTED IN LAYERS IN ACCORDANCE WITH TABLE 6/4 OF THE HIGHWAYS AGENCY MANUAL MCHW1 CLAUSES 608, 613-615..	AS REQUIRED TO RAISE LEVELS	

NOTE: THIS SPECIFICATION IS BASED UPON AN ASSUMED CBR TEST RESULT OF 5% FOR THE FORMATION LEVEL.

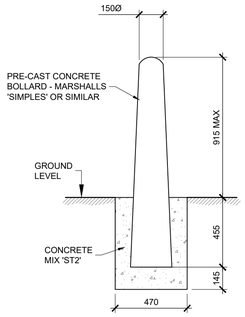
CONCRETE HARDSTANDING CONSTRUCTION SPECIFICATION



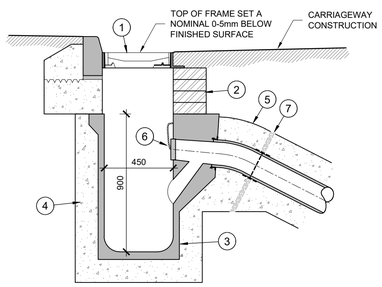
BUTT JOINT DETAIL
1:10



CABLE DUCT BEDDING DETAIL
1:10



CONCRETE BOLLARD
1:20



NOTE:
WHERE THE TOTAL ROAD CONSTRUCTION DEPTH EXCEEDS 450mm AND THE GULLY CONNECTION PIPE PASSES UNDER THE CARRIAGEWAY MORE THAN THREE COURSES OF BRICKWORK WILL BE PERMITTED.

(1) GULLY GRATING AND FRAME SHALL BE KITE-MARKED TO BSEN124 GRADE D400. ALL GRATINGS SHALL BE MANUFACTURED FROM CAST IRON OR DUCTILE IRON, CLEARLY MARKED WITH THE MAKER'S NAME AND THE GRADE OF THE THE GRATING, AND SHALL BE HINGED AND NON-REMOVABLE. GULLY FRAME SHALL BE SET ON A 10-20mm THICK CLASS 1 CEMENT MORTAR BED. GRATING AND FRAME TO BE SET 0-5mm BELOW THE CARRIAGEWAY SURFACE AND FLUSH WITH THE KERB FACE; ANY GAP SHALL BE FILLED WITH CLASS 1 MORTAR.

(2) AT LEAST ONE AND NOT MORE THAN FIVE COURSES CLASS B ENGINEERING BRICKWORK TO BSEN771 & 772 LAID SQUARE. CHANGE IN PROFILE FROM SQUARE TO CIRCULAR TO BE SHAPED IN CLASS 1 MORTAR.

(3) GULLY POT TO BE PRECAST CONCRETE TRAPPED TO BS5911-6(2004) HAVING INTERNAL DIMENSIONS 450mmØ AND 900mm MIN DEPTH. ALTERNATIVELY, BBA APPROVED uPVC PLASTIC GULLY POTS COMPLYING WITH BS1401 AND BSEN13598 MAY BE USED.

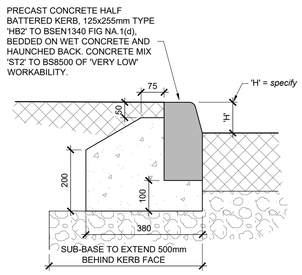
(4) 150mm THICK CONCRETE SURROUND (MIX 'ST4' TO BS8500).

(5) WHERE THE GULLY CONNECTION PIPE PASSES UNDER THE CARRIAGEWAY THE INVERT OF THE PIPE AT THE OUTLET SHALL BE SET AT LEAST 175mm BELOW FORMATION LEVEL. THE INVERT SHALL BE AT LEAST 315mm BELOW THE TOP OF THE SUB-BASE. A MIN 150mm THICK CONCRETE SURROUND (MIX 'ST2') SHALL BE CONTINUED TO THE CONNECTION PIPE UNTIL A DEPTH OF COVER OF 900mm TO THE CROWN OF THE PIPE HAS BEEN ACHIEVED.

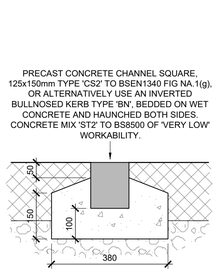
(6) PLASTIC STOPPER AND CHAIN.

(7) JOINT FILLER BOARD TO MAINTAIN FLEXIBLE JOINTS THROUGH CONCRETE SURROUND.

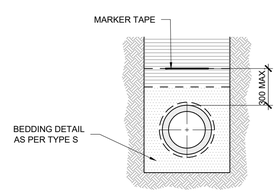
TYPICAL ROAD GULLY DETAIL
1:20



TYPICAL FULL FACE KERB DETAIL
(DETAIL 'KD1') - REF HBx
x = 'H'
1:10

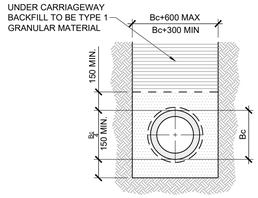


TYPICAL FLUSH KERB DETAIL
(DETAIL 'KD3')
1:10



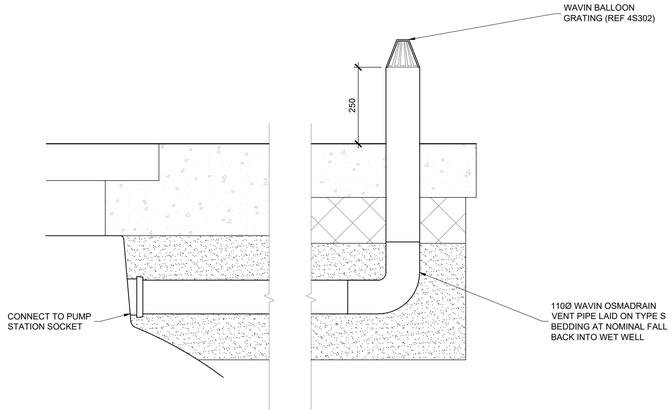
RISING MAIN BEDDING

AS PER TYPE S GENERALLY



TYPE S
BEDDING FACTOR 2.2

PIPE FULLY SURROUNDED WITH GRANULAR MATERIAL HAVING A COMPACTION FRACTION NOT GREATER THAN 0.2



VENT PIPE DETAIL
(1:10)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX
NOTES: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER PRODUCED FOR INCLUSION IN THE HEALTH AND SAFETY PLAN. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

CONSTRUCTION RISKS:
- CONNECTION TO LIVE SEWERS
- WORKING IN PUBLIC HIGHWAY
- PRESENCE OF LIVE OVERHEAD SERVICES
- PRESENCE OF LIVE BURIED SERVICES

MAINTENANCE/CLEANING RISKS:
- NO SIGNIFICANT RISKS.

DEMOLITION RISKS:
- NO SIGNIFICANT RISKS.

NOTE:

1. DO NOT SCALE, IF IN DOUBT ASK.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL ENGINEER'S DRAWINGS AND DETAILS, THE SPECIFICATION FOR THE WORKS, THE RELEVANT ARCHITECT'S DRAWINGS AND ANY OTHER SPECIALIST'S DRAWINGS.
3. ANY DISCREPANCIES FOUND ON THIS OR ANY OTHER DRAWINGS ARE TO BE REPORTED TO AND RESOLVED BY ROSSI LONG CONSULTING BEFORE THE COMMENCEMENT OF ANY WORK RELEVANT TO THE DISCREPANCY.
4. THE PRINCIPAL CONTRACTOR IS TO PROVIDE FULLY DESIGNED PROPPING/SHORING TO FACILITATE THE WORKS. ALL PROPPING & BRACING IS TO BE ADEQUATELY FOUNDED TO ENSURE THE STABILITY/INTEGRITY OF THE EXISTING/PROPOSED STRUCTURES &/OR EARTHWORKS IS MAINTAINED. UNLESS INDICATED ON THE DRAWINGS, THE TEMPORARY WORKS ARE NOT TO IMPOSE REACTIONS ON THE PERMANENT STRUCTURE WITHOUT PRIOR WRITTEN CONSENT FROM ROSSI LONG CONSULTING.
5. THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ROSSI LONG CONSULTING'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ROSSI LONG CONSULTING ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. ONLY WRITTEN DIMENSIONS SHALL BE USED.
6. DIMENSIONS ARE STATED IN MILLIMETRES UNLESS SHOWN OTHERWISE. CHAINAGES ARE STATED IN METRES. LEVELS ARE IN METRES AND RELATED TO ORDNANCE DATUM.
7. THE CONTRACTOR IS TO VERIFY THE ACCURACY OF INFORMATION PROVIDED BY OTHERS.
8. CONNECTIONS TO THE EXISTING SEWER SHALL BE SUBJECT TO THE APPROVAL OF ANGLIAN WATER AND SHALL BE CARRIED OUT BY A CONTRACTOR APPROVED BY ANGLIAN WATER. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ANGLIAN WATER WITH REGARDS TO SUBMITTING METHOD STATEMENTS, RISK ASSESSMENTS ETC FOR OBTAINING A 'PERMIT TO WORK' ON THE SEWER.
9. ALL CONNECTIONS TO ADOPTABLE SEWERS TO BE MADE IN AWS APPROVED MATERIALS ONLY.
10. PROTECTION TO ANGLIAN WATER ADOPTABLE SEWERS: WHERE THE COVER TO PIPES UNDER THE CARRIAGEWAY IS LESS THAN 1200mm THE PIPELINE SHALL BE PROTECTED WITH A 175mm THICK REINFORCED CONCRETE SLAB (BED TYPE Z3).
11. ALL PIPES ENTERING OR LEAVING MANHOLES SHALL BE LAID WITH THEIR SOFFITS LEVEL, UNLESS SHOWN OR AGREED OTHERWISE.
12. GULLY CONNECTIONS TO BE 150mm DIA AT A GRADIENT NO FLATTER THAN 1 IN 150 UNLESS STATED OTHERWISE.
13. PRIOR TO COMMENCING ANY DRAINAGE WORKS THE CONTRACTOR SHALL CHECK AND CONFIRM BACK TO ROSSI LONG CONSULTING LTD THE EXISTING INVERT LEVEL OF ALL OUTFALLS AND/OR CONNECTIONS TO EXISTING SEWERS. ANY WORK CARRIED OUT WITHOUT DOING THIS IS ENTIRELY AT THE CONTRACTOR'S OWN RISK.

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PRELIMINARY DRAWING:
THIS DRAWING IS FOR PRELIMINARY PURPOSES ONLY AND MUST NOT BE READ AS A CONSTRUCTION ISSUE. IT INDICATES DESIGN INTENT ONLY AND IS SUBJECT TO AMENDMENT DURING FINAL DESIGN DEVELOPMENT.

REV	DESCRIPTION	DATE	BY	AUTH
P1	PRELIMINARY ISSUE.	01.07.20	DG	-

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PROJECT
ALBION STREET
CROWLAND

TITLE
ADOPTABLE DRAINAGE DETAILS SHEET 2

DRAWN	AUTHORISED	DATE	SCALE AT A1
DG	-	JULY 2020	AS SHOWN

SUITABILITY
S0 - WORK IN PROGRESS

PROJECT NO.	DRAWING FIELDS.	DRAWING NO.	REV
181354	RLC-00-XX-DR	C-106	P1

A1