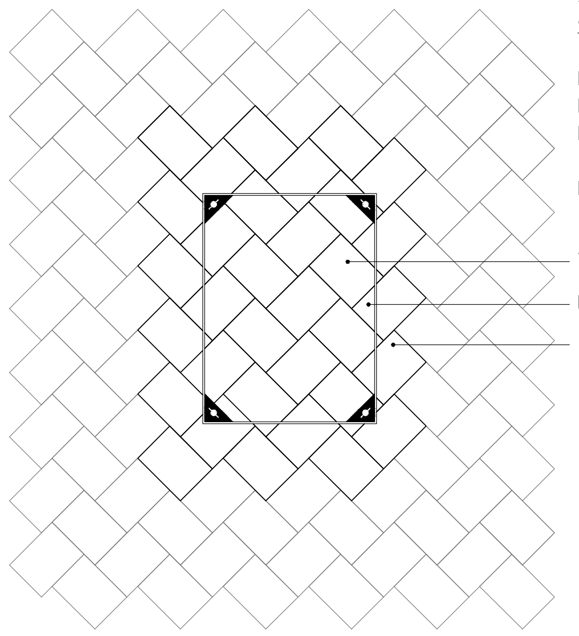
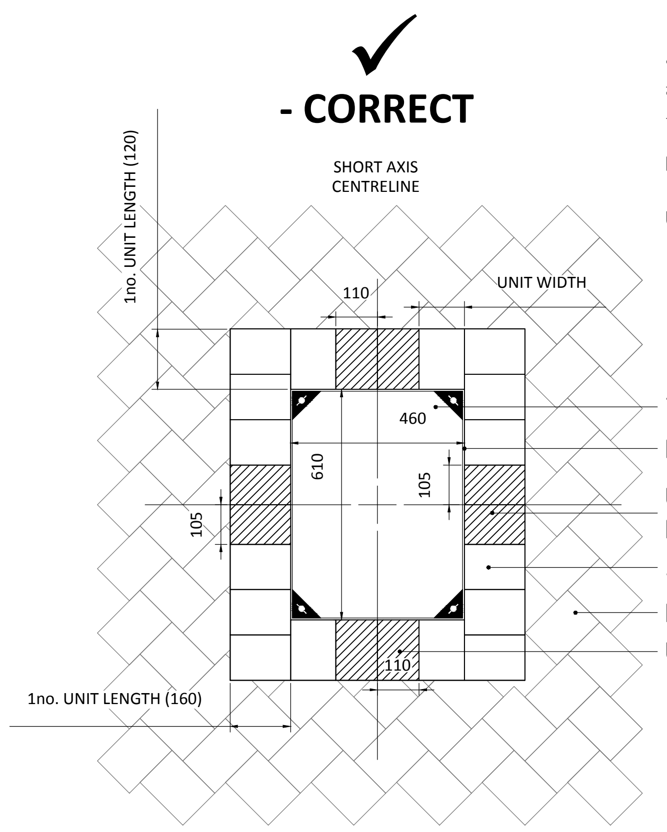


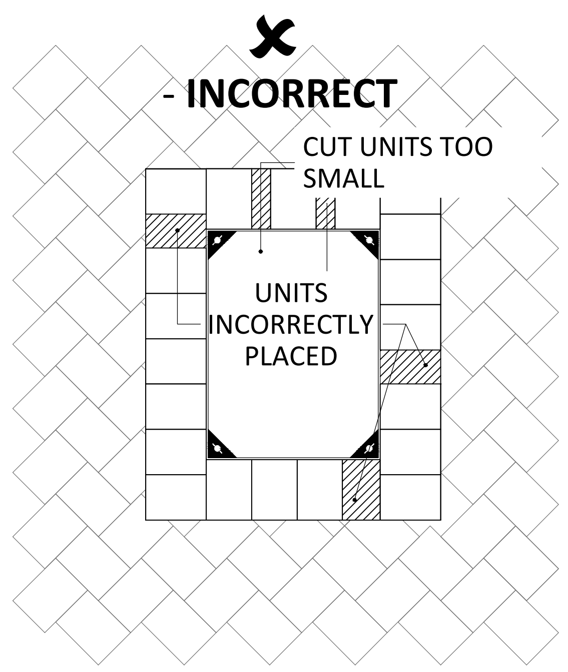
TYPICAL RECESSED UNIT SERVICE COVER INTRUSION SURFACE TREATMENT

MANHOLE COVER TYPE: As specified by Others
BLOCK INFILL TYPE: To match adjacent paved unit surrounds
BLOCK UNIT DIMENSIONS: To match adjacent paved unit surrounds
COLOUR: To match adjacent paved unit surrounds
BOND: To match adjacent paved unit surrounds



TYPICAL SERVICE COVER INTRUSTION SURFACE TREATMENT

MANHOLE COVER TYPE: By Others.
SOLDIER COURSE TYPE: To match adjacent paved unit surrounds
UNIT DIMENSIONS: To match adjacent paved unit surrounds
COLOUR: To match adjacent paved unit surrounds



N.B. CUT UNITS TO BE CENTRED OFF THE LONG & SHORT AXIS CENTRELINE OF THE SERVICE/UTILITIES COVER FRAME.
CENTRE LINE = MIRROR LINE = $\frac{1}{2}$ WIDTH OR $\frac{1}{2}$ LENGTH [OF THE MANHOLE COVER FRAME.
MIRROR/COPY UNIT PLACEMENT ACROSS CENTRELINE.
CUT UNITS: NOT LESS THAN APPROX. $\frac{2}{3}$ FULL UNIT WIDTH. REASON: TO PREVENT ODD PLACEMENT OF CUT UNITS/SMALL UNIT 'SLIPS'.
CUTS TO 1, 2, OR MORE PAVIOUR UNITS ARE THEREFORE POSSIBLE FROM THE CENTRELINE OUTWARDS.

WORKED EXAMPLE
ASSUME MANHOLE FRAME = 460x610mm & PAVIOUR UNIT DIMENSIONS = 120x160mm

STEP 1: DETERMINE MANHOLE FRAME CENTRE DIMENSIONS

LONGITUDINAL FRAME CENTRE: 610/2 = 305
TRANSVERSE FRAME CENTRE: 460/2 = 230

STEP 2: DETERMINE MINIMUM SIZE OF CUT UNIT

MINIMUM SIZE OF CUT UNIT: 120/3 = 40
40x2 = 80mm

STEP 3: DETERMINE UNITS REQUIRED ACROSS TRANSVERSE SECTION OF MANHOLE FRAME

UNITS REQUIRED ACROSS FRAME WIDTH:*
460/120 = 3.833 UNITS. GIVING 1 FULL UNIT + 0.833 UNIT (100mm approx) + 2 FULL UNITS CONCLUSION: MIRRORING NOT POSSIBLE. FAIL.

*THEREFORE DETERMINE UNITS REQUIRED TO CENTRELINE**:*
230/120 = 1.916 UNITS. GIVING 1 FULL UNIT + 0.916 UNIT (110mm approx). CONCLUSION. CUT >80mm. MIRRORING POSSIBLE. RESOLVED.

STEP 4: DETERMINE UNITS REQUIRED ACROSS LONGITUDINAL SECTION OF MANHOLE FRAME

FRAME LENGTH + (SOLDIER COURSE BOTH SIDES) = 610 + (160x2) = 930
POTENTIAL UNITS REQUIRED ALONG WHOLE LENGTH:*
930/120 = 7.75 UNITS (GIVING 3 FULL UNITS + 0.75 UNIT (90mm) + 4 FULL UNITS.) CONCLUSION: MIRRORING NOT POSSIBLE. FAIL.

*UNITS REQUIRED TO CENTRE LINE**:*
465/120 = 3.875 UNITS (WHICH GIVES 3 FULL UNITS + 0.875 UNIT (105mm) TO CENTRE LINE. CONCLUSION. CUT >80mm. MIRRORING POSSIBLE. RESOLVED.

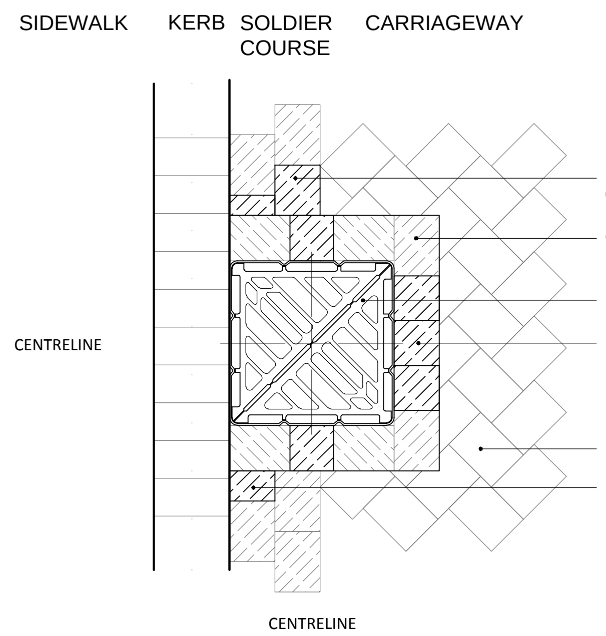
WHAT THE NUMBERS MEAN

**UNITS REQUIRED ALONG RUN:*
ODD/EVEN WHOLE (INTEGER) NUMBER = RESOLVED. ODD NUMBER + DECIMAL = MIRRORING NOT POSSIBLE. FAIL. EVEN NUMBER + DECIMAL = DEPENDANT ON CUT SIZE.

DECIMAL FRACTION = CHECK MEETS MINIMUM SIZE OF CUT. I.E. DECIMAL >0.666 = YES. IF, NO (<0.666) = INCREASE NO. CUT BLOCKS AS REQUIRED.

***UNITS REQUIRED TO CENTRE LINE:*
ODD/EVEN WHOLE (INTEGER) NUMBER = RESOLVED. ODD NUMBER + DECIMAL = @ EXACTLY 0.5 = YES (0.5 REPRESENTS (UNCUT) BLOCK PLACED HALF & HALF OVER CENTRE LINE), THEREAFTER: TO MEET MINIMUM SIZE OF CUT. EVEN NUMBER = RESOLVED. EVEN NUMBER + DECIMAL = AS ODD DECIMAL EQUIV.

DECIMAL FRACTION = CHECK MEETS MINIMUM SIZE OF CUT. I.E. DECIMAL >0.666 = YES. IF, NO (<0.666) = INCREASE NO. CUT BLOCKS AS REQUIRED.

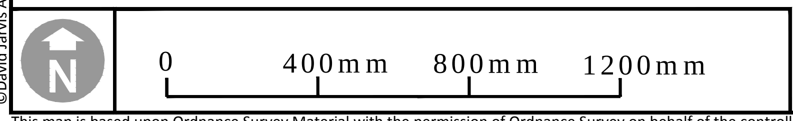


TYPICAL GULLY GRATE / DRAIN COVER INTRUSION INTO BLOCK PAVIOUR / SETTS SURFACE TREATMENT

GULLY GRATE TYPE: To match Civil Engineers design, specification & construction details
GULLY GRATE SURROUNDS: To match adjacent paved unit surrounds
BLOCK UNIT DIMENSIONS: To match adjacent paved unit surrounds
COLOUR: To match adjacent paved unit surrounds
BOND: Running, single course, mirrored over gully grate frame centreline

N.B. treat gully grate surrounds as separate from soldier course running parallel to kerb line. Reason: Distance between drain units are not necessarily block unit dimension dependant. Where gully grate frame flanges prevent direct block abutment; blocks shall be moved outward (to 100mm max.), centrally spaced, and the gap infilled using C35 air-entrained concrete to BS EN 206-1, hand trowelled finish.

Drawn by RW & Checked by KA



KEY

Notes

Drawing Revision

Rev	Date	Description
A	04/11/2015	Client name change.
-	02/10/2015	First Issue.

Drawing Status

PLANNING

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Project
KINGSMERE, PHASE 1 LOCAL CENTRE

Drawing Title
GENERAL PAVING PRINCIPLES

Scale	Sheet Size	Date
1:20	A2	SEPT 2015

Drawing No. **2226/LC/D001**
Revision **A**