



MATERIAL NOTES:-

HARDCORE
 GRANULAR MATERIAL, FREE FROM HARMFUL MATTER AND EXCESSIVE DUST, WELL GRADED, PASSING A 75mm BS SIEVE AND IN ANY ONE LAYER ONLY ONE OF THE FOLLOWING: CRUSHED HARD ROCK OR QUARRY WASTE (OTHER THAN CHALK) WITH NOT MORE BINDING MATERIAL THAN IS REQUIRED TO HELP HOLD THE STONE TOGETHER, CRUSHED CONCRETE, CRUSHED BRICK OR TILE, FREE FROM PLASTER, TIMBER AND METAL GRAVEL OR HOGGIN WITH NOT MORE CLAY CONTENT THAN IS REQUIRED TO BIND THE MATERIAL TOGETHER, AND WITH NO LARGE LUMPS OF CLAY, SOUND BLAST FURNACE SLAG (OTHER THAN FROM STEELMAKING FOUNDRIES), UNBURNT COLLIERY SPOIL (MINESTONE), SPREAD AND LEVEL BOTH BACKFILLING AND GENERAL FILLING IN LAYERS NOT EXCEEDING 150mm, THOROUGHLY COMPACT EACH LAYER WITH A VIBRATORY ROLLER, VIBRATING PLATE COMPACTOR, VIBRO-TAMPER, POWER RAMMER OR OTHER SUITABLE MEANS.

BLINDING
 SURFACES TO RECEIVE SHEET OVERLAYS OR CONCRETE TO HAVE 75mm OF BLINDING USING CONCRETE MIX GEN 1, TO CLAUSE E10/101. PERMISSIBLE DEVIATIONS ON SURFACE LEVEL: +0 -25mm

MORTAR FILLING/BEDDING OF BOLLARD CORES
 SPACES 50 TO 80mm DEEP DAMP MORTAR OF 1:2 CEMENT: SAND, WELL TAMPED AGAINST PROPERLY FIXED SUPPORTS AS FILLING PROCEEDS. CEMENT: PORTLAND CEMENT TO BS EN 197-1-CEM 42.5 OR CLASS 52.5. SAND: TO BS 882, GRADING LIMIT M OR EQUIVALENT TO BS EN 12620.

GROUT
 GROUT USED FOR INFILL AROUND BOLLARDS TO BE CONEXTRA HF MANUFACTURED BY FORSFOC OR SIMILAR APPROVED. GROUTS USED FOR BEDDING STEEL BASES OR BEARING PLATES ON CONCRETE FOUNDATIONS SHALL BE AGREED WITH THE CA. A HIGH STRENGTH, NON SHRINK OR EXPANDING TYPE OF PROPRIETARY CEMENTITIOUS COMPOUND FOR GROUTING IS REQUIRED. FOUNDATIONS ARE TO BE PRE-SOAKED WITH WATER THE DAY PRIOR TO GROUTING OF A BASE PLATE. THE CONTRACTOR MUST DEMONSTRATE THAT THERE ARE NO GAPS AND THAT NO CRACKS DEVELOP ONCE THE GROUT HAS BEEN POURED.

CONCRETE
 ALL CONCRETE TO BE IN ACCORDANCE WITH BS 8500 CONCRETE TO BE DESIGNATED MIX:
 BLINDING - GEN 1
 REINFORCED CONCRETE - C 32/40
 ALL MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH RECOMMENDATIONS OF BS 8110.
 MINIMUM LAP:
 BAR REINFORCEMENT Ø20 - 1120mm
 REINFORCEMENT IS LISTED ON BAR BENDING (SEE SHEET 2)
 COVER TO ALL REINFORCEMENT TO BE - 50mm OR AS OTHERWISE STATED.
 WHERE CAST AGAINST GROUND FOUNDATION SIZE TO BE INCREASED TO GIVE MIN. OF 75mm COVER TO REBAR
 COVER TO BE MAINTAINED BY THE USE OF PROPRIETY COVER SPACERS. BROKEN PAVING SLABS, BRICKS ETC. ARE NOT PERMITTED. TOP SURFACE TO BE STEEL FLOAT FINISHED
 ALL SERVICES FOUND TO PENETRATE THE FOUNDATIONS TO BE SPLIT DUCTED.

NOTE:
 GENERIC DRAWING ONLY NOT SITE SPECIFIC. SPECIFIC SITE CONDITIONS, SURROUNDING SUBSTRATES, GROUND BEARING ETC MUST BE TAKEN INTO CONSIDERATION IN THE FINAL DESIGN OF THE FOUNDATIONS



PROJECT			CSG 10800 SERIES FULL DEPTH BOLLARDS	
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1	RGL	20/7/10	RGL	20/7/10