PROVIDE A393 FABRIC
REINFORCEMENT IN ALL
MEMBERS. REINFORCEMENT TO
HAVE 50 COVER AND MINIMUM
LAP OF 300 (2 LAYERS FOR
T=250 AND 300)
CONCRETE CLASS ST4

300

TOP WATER LEVEL

SECTION A-A

PIPES 300mm DIAMETER AND GREATER

TOE TO COMPRISE 300x150x1000 LONG PRECAST CONCRETE BLOCKS OR INSITU CONCRETE CLASS ST4

PLAN

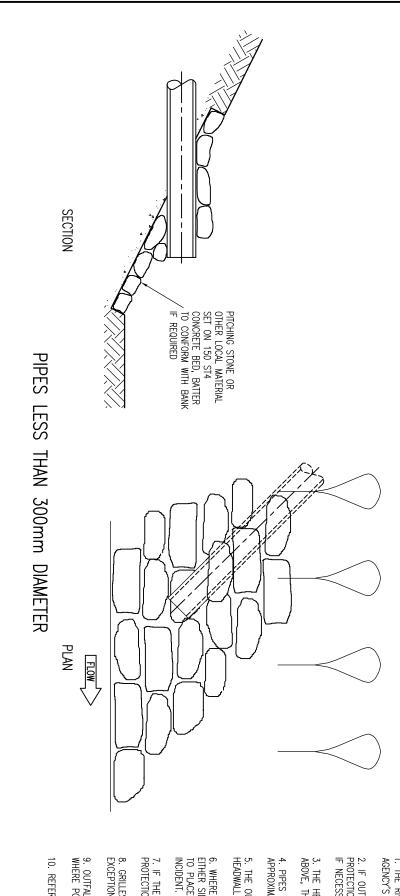
TOP WATER LEVEL

OUTFALL DETAIL ON SITE WORKS ROCKER PIPE PLACED
AS CLOSE AS
PRACTICAL TO _______
STRUCTURE

ENERGY DISSIPATING BLOCKS MAY BE FITTED ON APRON IF VERY HIGH VELOCITIES ARE UNAVOIDABLE

STONE SET ON CONCRETE BED REQUIRED WHERE OUTFALL ABOVE DRY WEATHER FLOW.

WINGWALLS TO CONFORM AND BE FLUSH WITH BANK



GENERAL INFORMATION

DO NOT SCALE

- 1. THE RIVER BED AND BANKS MUST BE REINSTATED TO THE ENVIRONMENT AGENCY'S SATISFACTION.
- 2. IF OUTFALL VELOCITY EXCEEDS 1 m/sec, THEN ADDITIONAL BED AND PROTECTION MAY BE REQUIRED TO PREVENT SCOUR. A STILLING BASIN IF NECESSARY, BE PROVIDED TO REDUCE THE VELOCITY. 3. THE HEADWALL AND WINGWALLS SHALL NEITHER PROJECT BEYOND, NOR ABOVE, THE NATURAL LINE OF THE BANK. CAN,
- 4. PIPES SHOULD BE DIRECTED INTO THE FLOW OF THE RIVER AT APPROXIMATELY 45° .
- 5. THE OUTFALL PIPE SHALL PROJECT A MINIMUM OF 50 BEYOND THE HEADWALL TO ALLOW THE DISCHARGE TO BE SAMPLED.
- 6. WHERE REQUIRED SLOTS / BRACKETS SHOULD BE CAST INTO OR FIXED EITHER SIDE OF THE OUTFALL PIPE TO ALLOW POLLUTION CONTROL OFFICERS TO PLACE BOARDING OVER AND LIMIT DISCHARGE DURING A POLLUTION
- 7. IF THE DEPTH OF COVER TO THE TOP OF THE PIPE IS LESS THAN 450, PROTECTION OF THE PIPE MAY BE NECESSARY.
- 8. GRILLES ON OUTFALLS SHALL BE AVOIDED UNLESS THERE ARE EXCEPTIONAL CIRCUMSTANCES.
- 9. OUTFALLS SHALL DISCHARGE DOWNSTREAM OF BRIDGES / CULVERTS WHERE POSSIBLE.

10. REFER TO STANDARD DETAIL 1903/SD/100 (DRAINAGE NOTES)

REV 03/12/08 28/05/08 P 宔 FOR TECHNICAL APPROVAL FIRST ISSUE ISSUED FOR TECHNICAL APPROVAL DESCRIPTION 웆

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|-------------------------|---|---|

COUNTRYSIDE PROPERTIES BICESTER, OXFORDSHIRE SOUTH WEST BICESTER

| SCALE @ A3: | CHECKED: | APPROVED: | |
|-------------|-----------------|-----------|----------------|
| 1:20 | Н | ل | JM |
| CAD FILE: | DESIGN-DRAWN: | DATE | |
| 1903-SD-108 | PJ | Septem | September 2007 |
| PROJECT No: | DRAWING No: | | REV: |
| 11011903 | 1903/SD/108 |)8 | В |
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