

- THIS DRAWING IS TO BE READ IN CONNECTION WITH ALL DRAWINGS AND SPECIFICATIONS FOR THE WORK.
- ENGINEERS & ARCHITECTS DRAWINGS SHALL BE THE GOVERNOR OF INFORMATION EXCEPT FOR ANY CONTRADICTION - "AS".
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.
- PIPE BEDDING SHALL BE COMPACTED TO 95% PROCTER DENSITY AND COVER FOR PIPES TO BE TO TYPE II MATERIAL TO CLASS S30 OF DIT SPECIFICATION FOR HIGHWAY MATERIALS TO BE EN 13242
- TABLE 1: REQUIREMENTS FOR GENERAL DRAINAGE EQUIPMENT

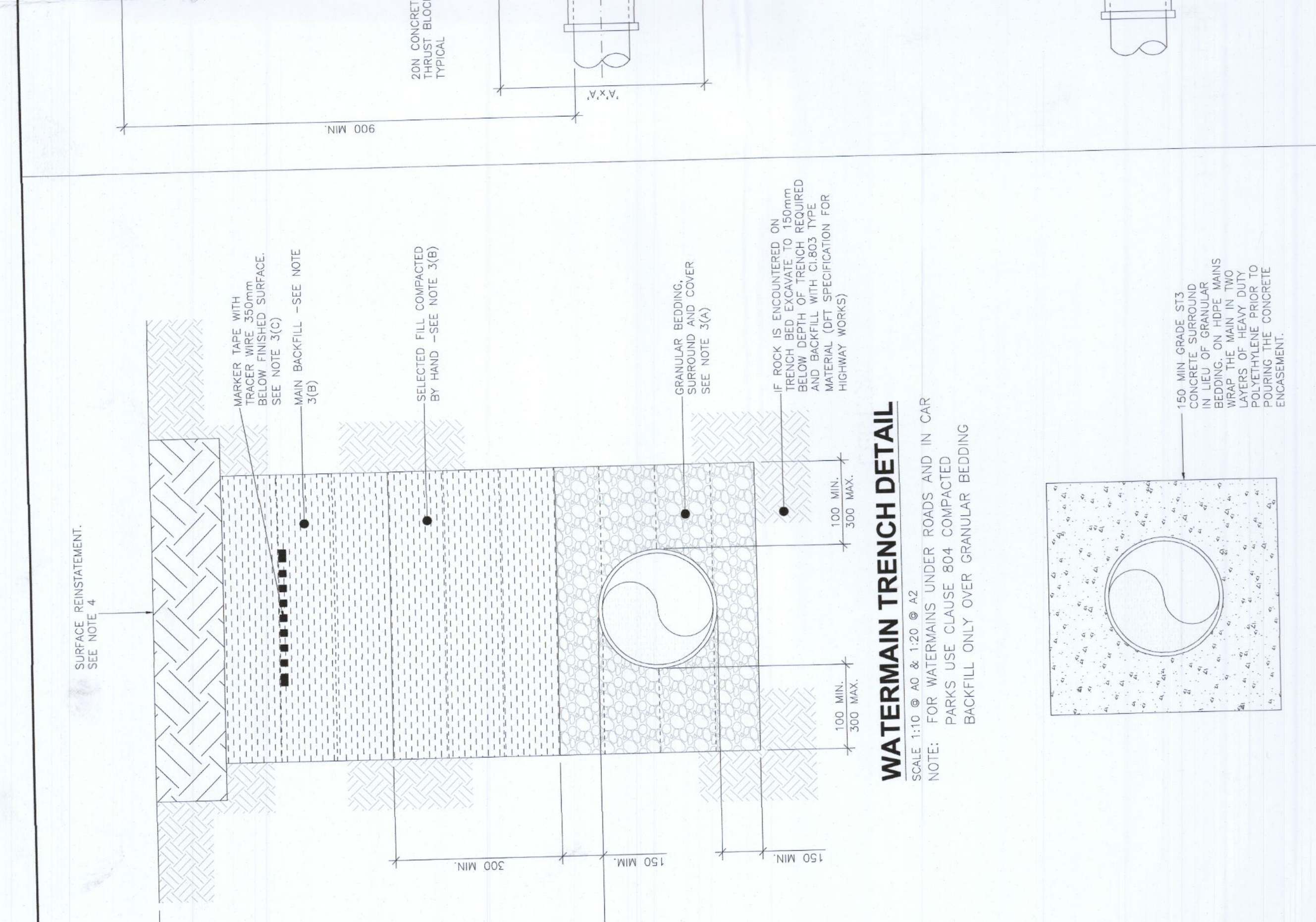
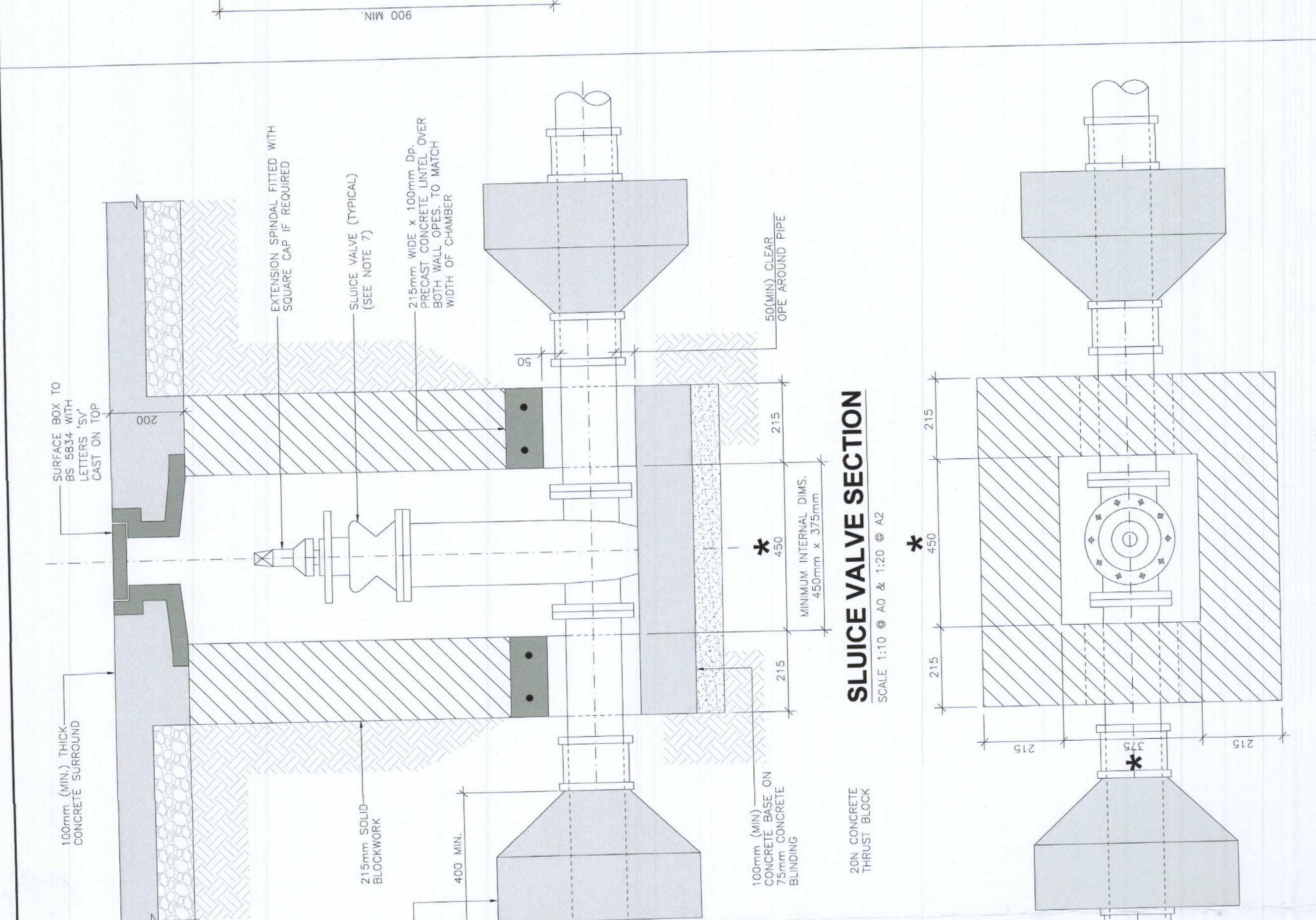
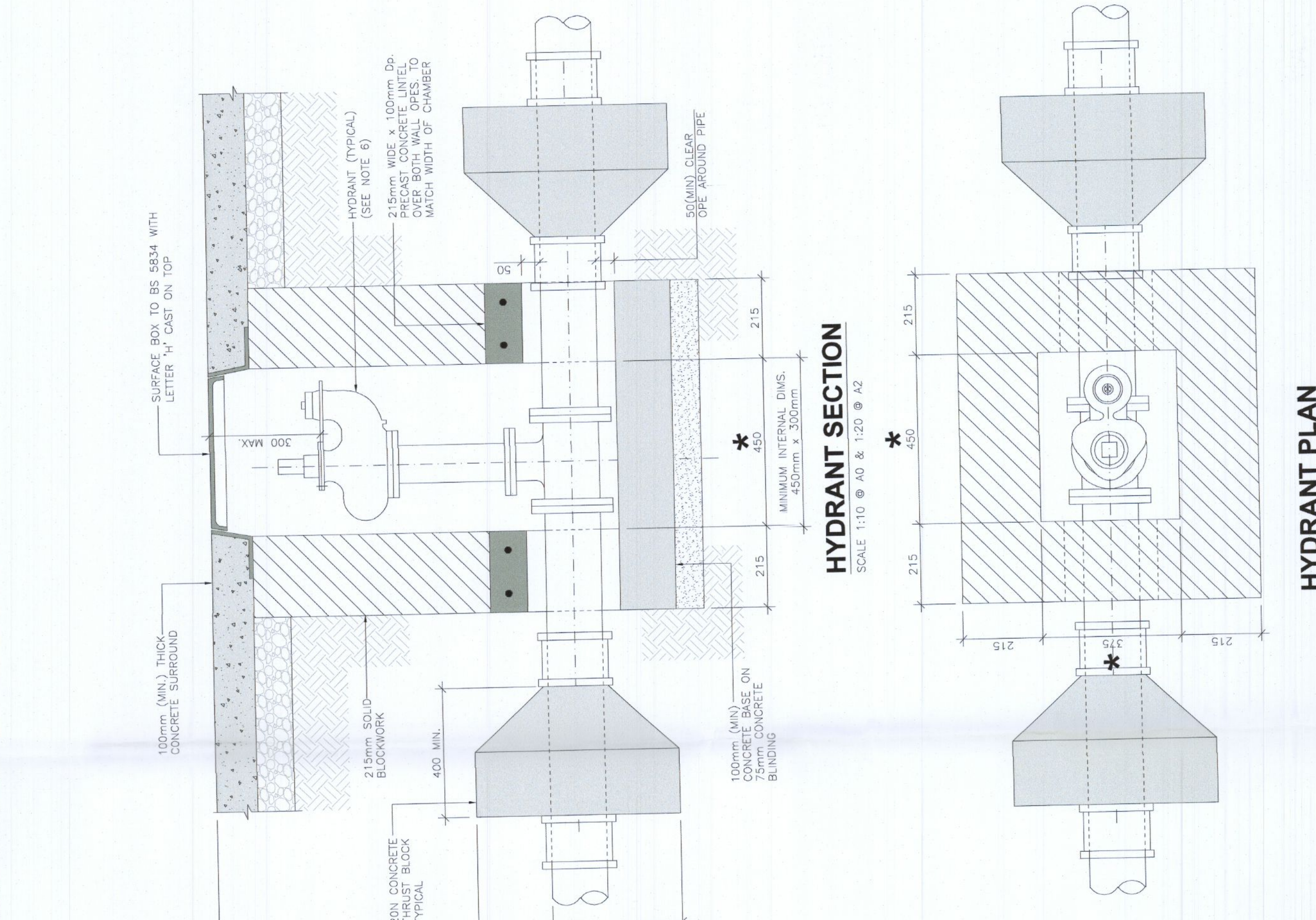
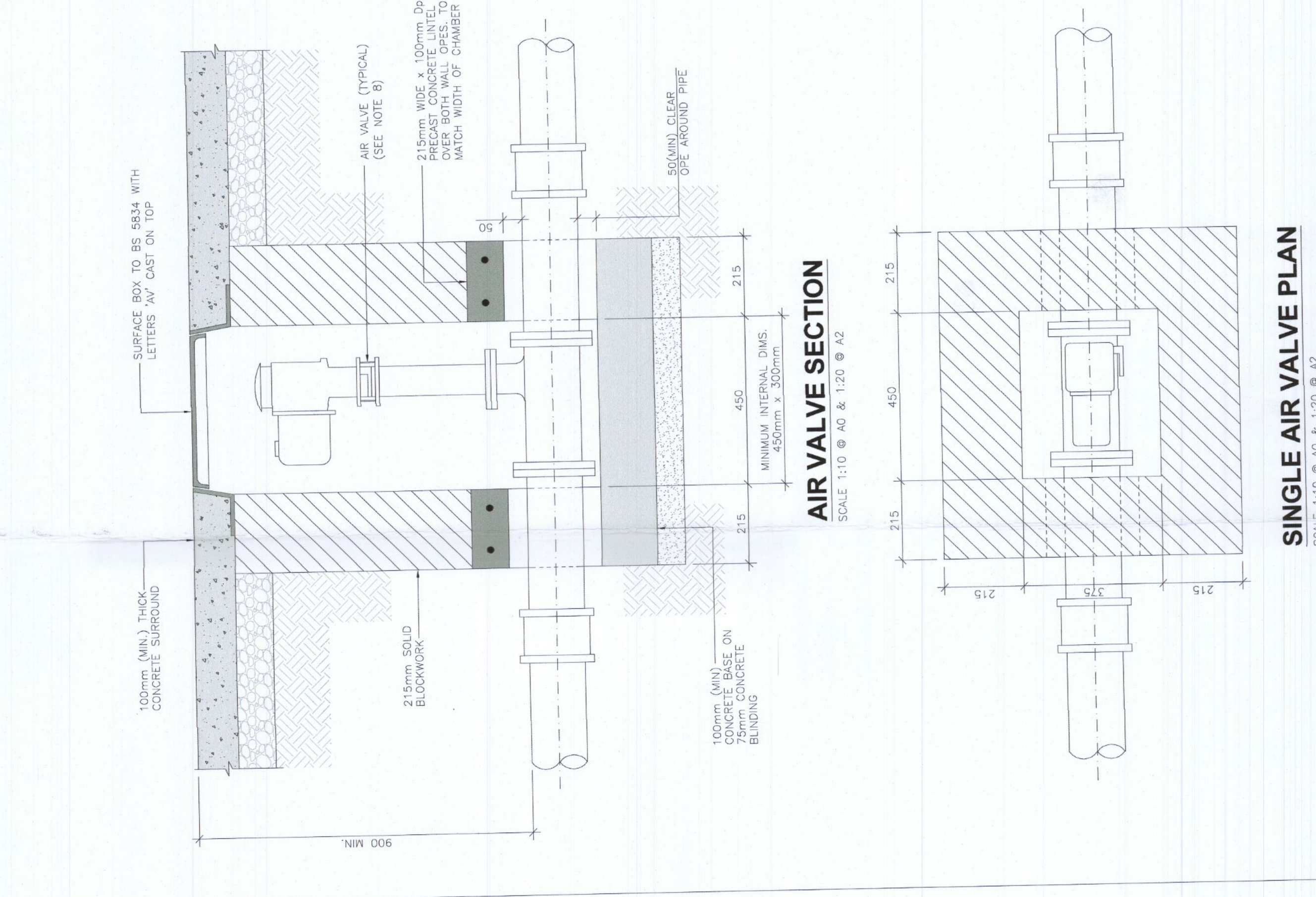
CATEGORY	FOR GENERAL DRAINAGE EQUIPMENT	NO REQUIREMENTS	OR EN 290
MINIMUM DEPTH OF RIGID COVER	150mm	150mm	150mm
MINIMUM DEPTH OF RIGID COVER	150mm	150mm	150mm
MINIMUM DEPTH OF RIGID COVER	150mm	150mm	150mm

- (A) TYPE II MATERIAL TO CLASS S30 OF DIT SPECIFICATION FOR HIGHWAY MATERIALS TO BE EN 13242
- TABLE 1: REQUIREMENTS FOR GENERAL DRAINAGE EQUIPMENT
- MINIMUM DEPTH OF RIGID COVER
- MINIMUM DEPTH OF RIGID COVER
- MINIMUM DEPTH OF RIGID COVER

- (B) BACKFILL UNDER CARRIAGEWAYS, FOOTPATHS, CYCLES AND GRASSED AREAS WHERE THE NEAREST SOLE OF PIPE TO BE TYPE 2 UNGRADED MIXTURE TO CLASS B84 OF CATEGORY 1 FOR HIGHWAY MATERIALS TO BE EN 13242 SHALL EXCEED 100mm. SUCH LAYERS SHALL BE COMPACTED BY MEANS OF A RAMMER OR EQUIVALENT TO THE DEPTH OF THE COVER.
- (C) BACKFILL UNDER GRASSED AREAS WHERE THE NEAREST SOLE OF PIPE TO BE TYPE 2 UNGRADED MIXTURE TO CLASS B84 OF CATEGORY 1 FOR HIGHWAY MATERIALS TO BE EN 13242 SHALL EXCEED 100mm. SUCH LAYERS SHALL BE COMPACTED BY MEANS OF A RAMMER OR EQUIVALENT TO THE DEPTH OF THE COVER.

4. SURFACE REINFORCEMENT
- (A) 100mm MINIMUM DEPTH OF GRADE C30 CONCRETE TO CLASS S30 OF DIT SPECIFICATION FOR HIGHWAY MATERIALS TO BE EN 13242 SHALL EXCEED 100mm. SUCH LAYERS SHALL BE COMPACTED BY MEANS OF A RAMMER OR EQUIVALENT TO THE DEPTH OF THE COVER.
- (B) 100mm MINIMUM DEPTH OF GRADE C30 CONCRETE TO CLASS S30 OF DIT SPECIFICATION FOR HIGHWAY MATERIALS TO BE EN 13242 SHALL EXCEED 100mm. SUCH LAYERS SHALL BE COMPACTED BY MEANS OF A RAMMER OR EQUIVALENT TO THE DEPTH OF THE COVER.
- (C) 100mm MINIMUM DEPTH OF GRADE C30 CONCRETE TO CLASS S30 OF DIT SPECIFICATION FOR HIGHWAY MATERIALS TO BE EN 13242 SHALL EXCEED 100mm. SUCH LAYERS SHALL BE COMPACTED BY MEANS OF A RAMMER OR EQUIVALENT TO THE DEPTH OF THE COVER.
- (D) 100mm MINIMUM DEPTH OF GRADE C30 CONCRETE TO CLASS S30 OF DIT SPECIFICATION FOR HIGHWAY MATERIALS TO BE EN 13242 SHALL EXCEED 100mm. SUCH LAYERS SHALL BE COMPACTED BY MEANS OF A RAMMER OR EQUIVALENT TO THE DEPTH OF THE COVER.

5. PIPE TESTING
- PLEASE REFER TO THE WATERMAIN SPECIFICATION FOR PIPE TESTING DETAILS
- HYDRANTS
- HYDRANT SLICES SHALL BE MANUFACTURED IN ACCORDANCE WITH BS 7000 TYPE 2 AND SHALL INCORPORATE A SPLIT-OPEN VALVE WHICH WILL ALLOW THE HYDRANT SLICE TO BE MANIPULATED IN ANY DIRECTION.
- SLICE VALVES
- SLICE VALVES SHALL COMPLY WITH THE REQUIREMENTS OF BS 5155 TYPE 2 AND SHALL INCORPORATE A SPLIT-OPEN VALVE WHICH WILL ALLOW THE SLICE VALVE TO BE MANIPULATED IN ANY DIRECTION.
- ANTI-VIBRATION
- ANTI-VIBRATION SLICES SHALL BE MANUFACTURED IN ACCORDANCE WITH BS 5155 TYPE 2 AND SHALL INCORPORATE A SPLIT-OPEN VALVE WHICH WILL ALLOW THE SLICE VALVE TO BE MANIPULATED IN ANY DIRECTION.
- SURFACE COVERS
- SURFACE COVERS SHALL COMPLY WITH THE REQUIREMENTS OF BS 5155 TYPE 2 AND SHALL INCORPORATE A SPLIT-OPEN VALVE WHICH WILL ALLOW THE SURFACE COVER TO BE MANIPULATED IN ANY DIRECTION.
- HYDRANT AND SLICE VALVE INDICATOR PLATES
- HYDRANT AND SLICE VALVE INDICATOR PLATES SHALL BE MANUFACTURED IN ACCORDANCE WITH BS 5155 TYPE 2 AND SHALL INCORPORATE A SPLIT-OPEN VALVE WHICH WILL ALLOW THE INDICATOR PLATE TO BE MANIPULATED IN ANY DIRECTION.

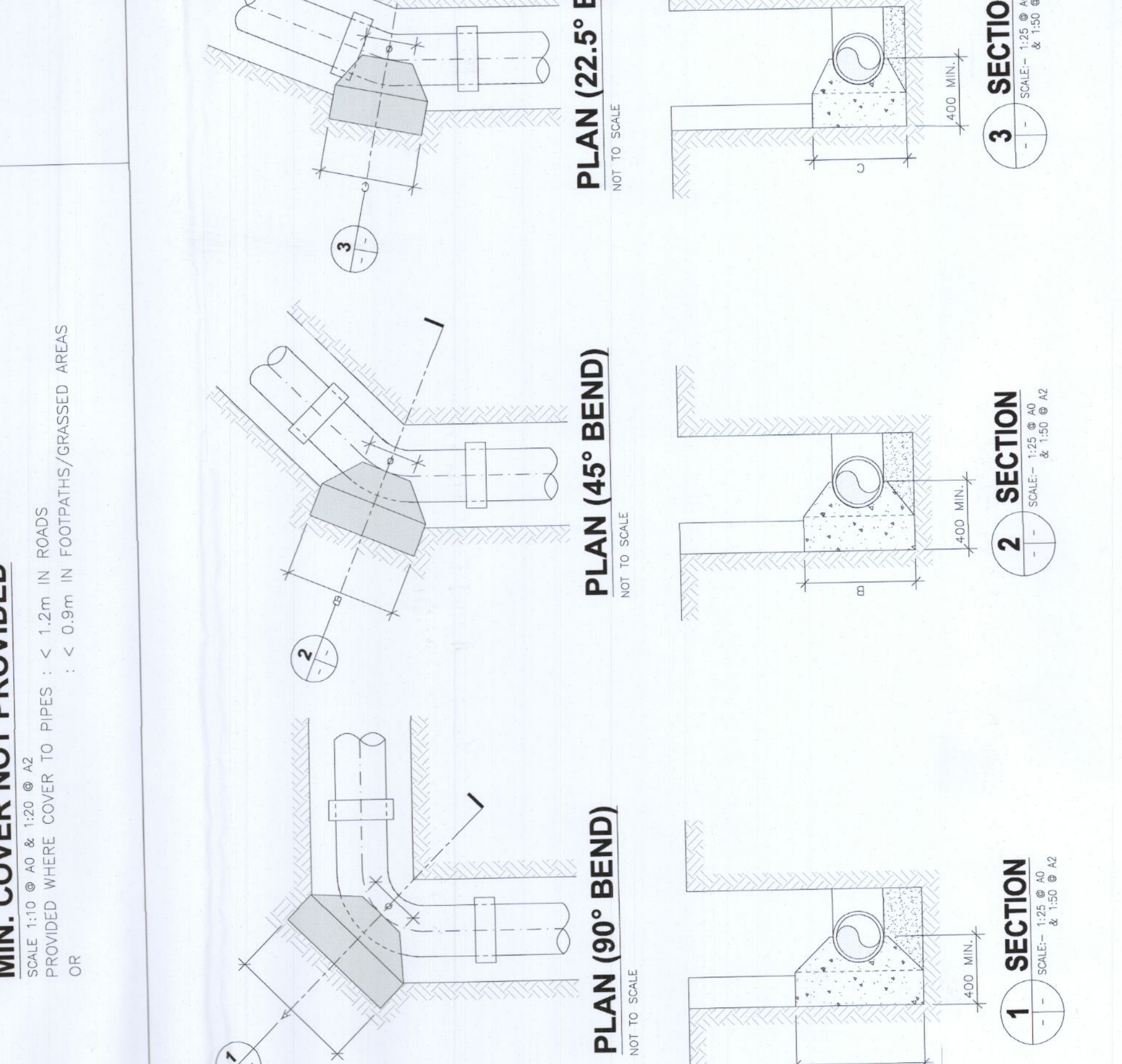
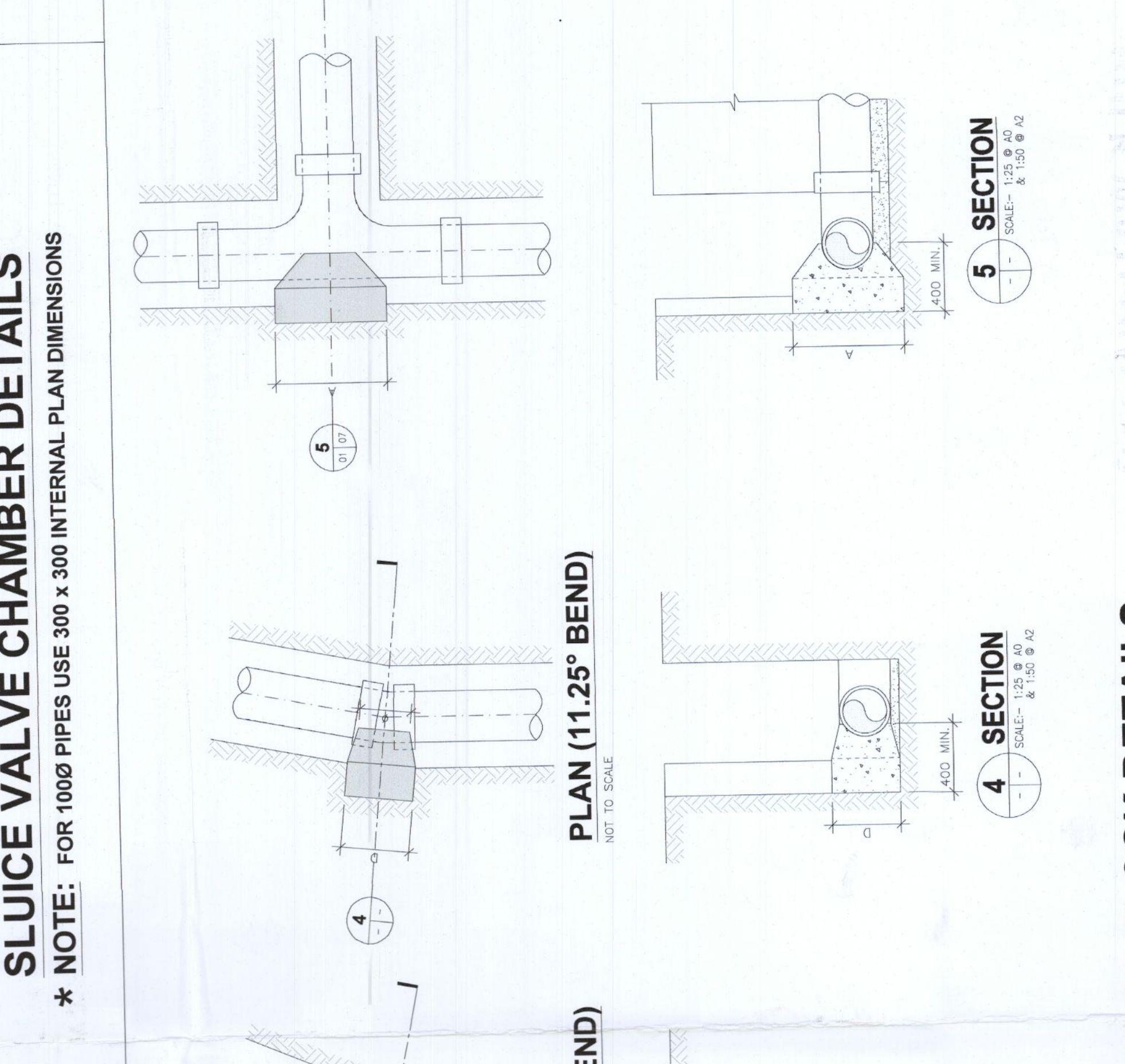
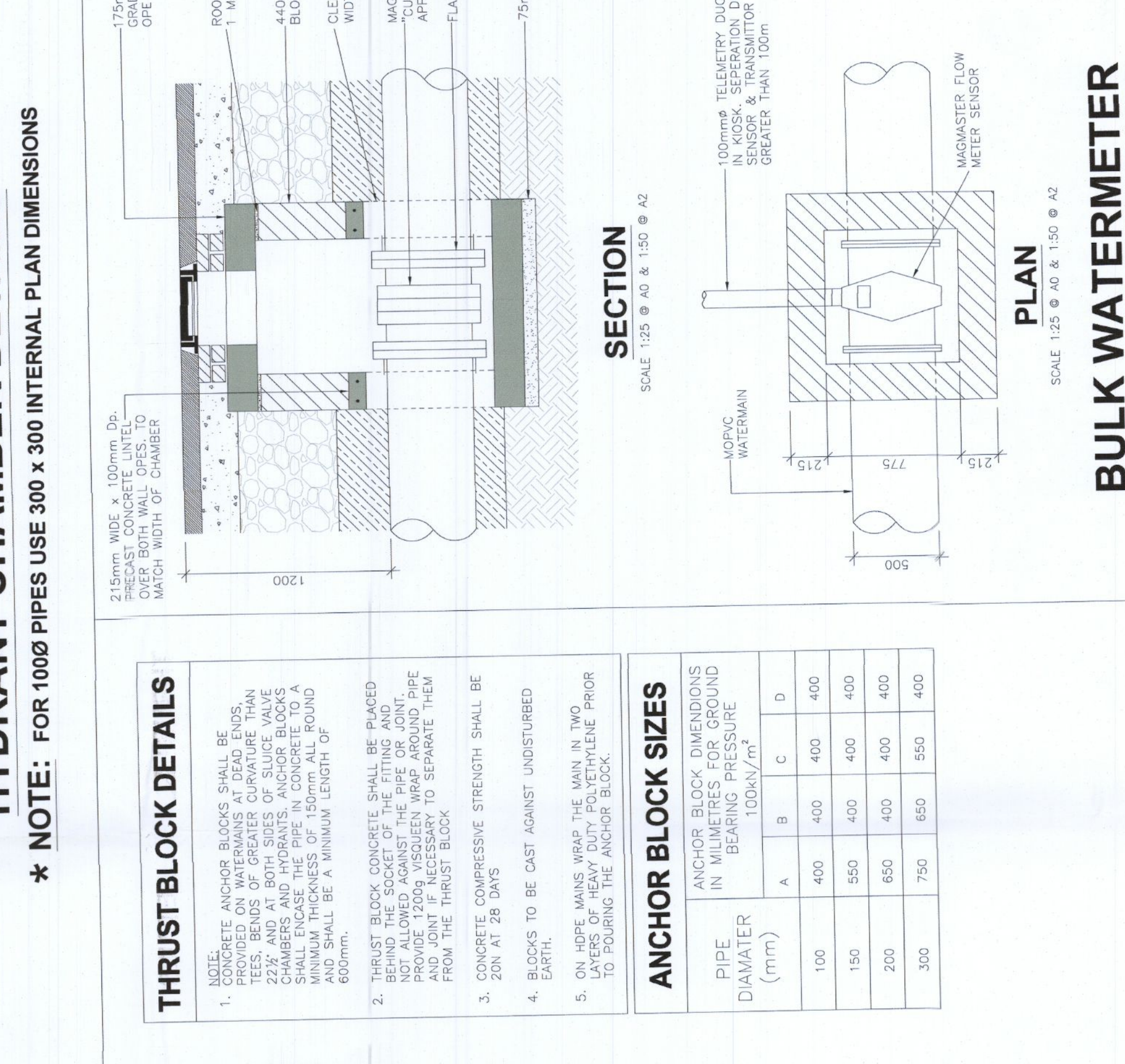
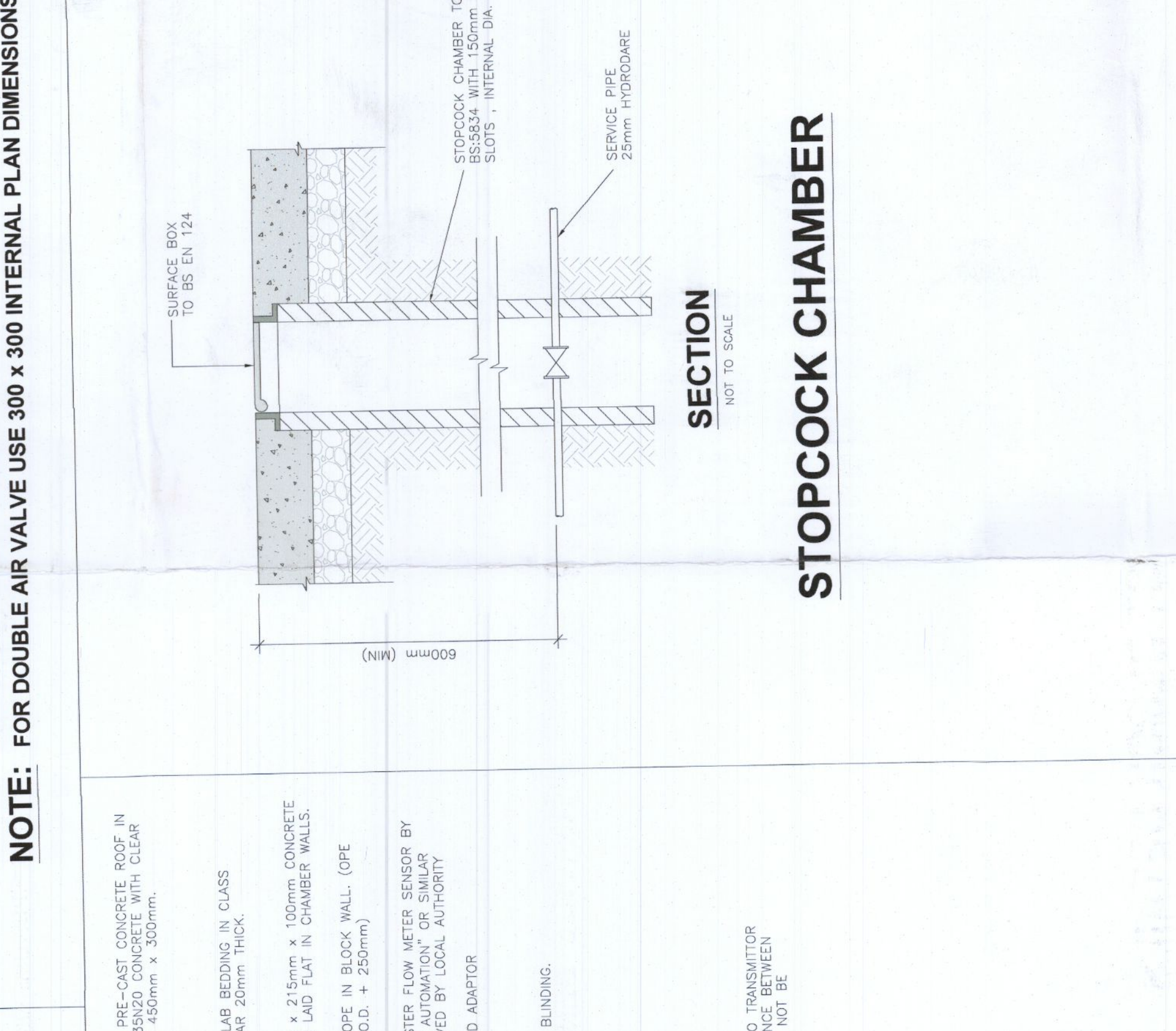


AIR VALVE SECTION
SCALE 1:10 @ A2 & 1:20 @ A3

HYDRANT SECTION
SCALE 1:10 @ A2 & 1:20 @ A3

SLUICE VALVE SECTION
SCALE 1:10 @ A2 & 1:20 @ A3

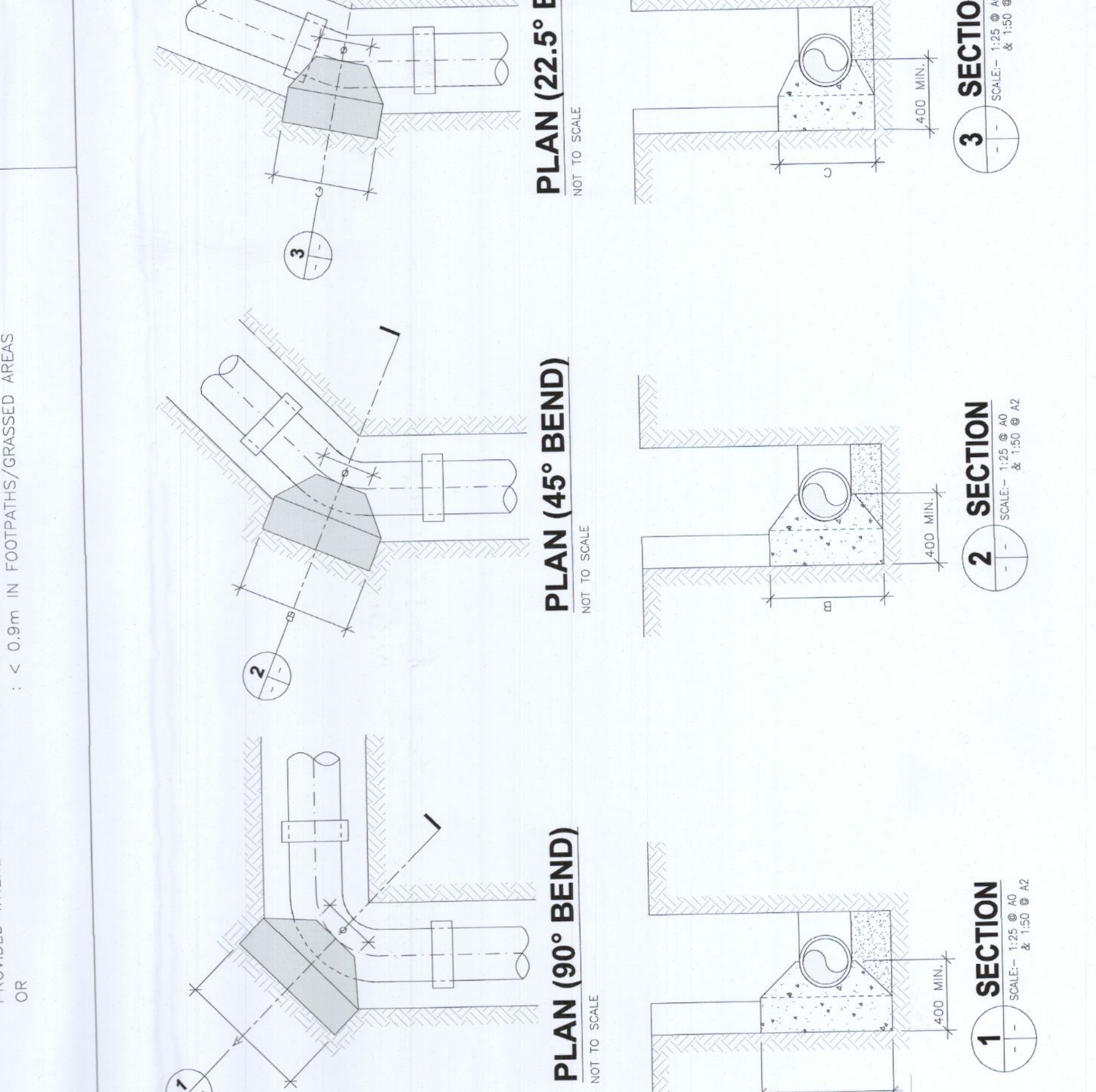
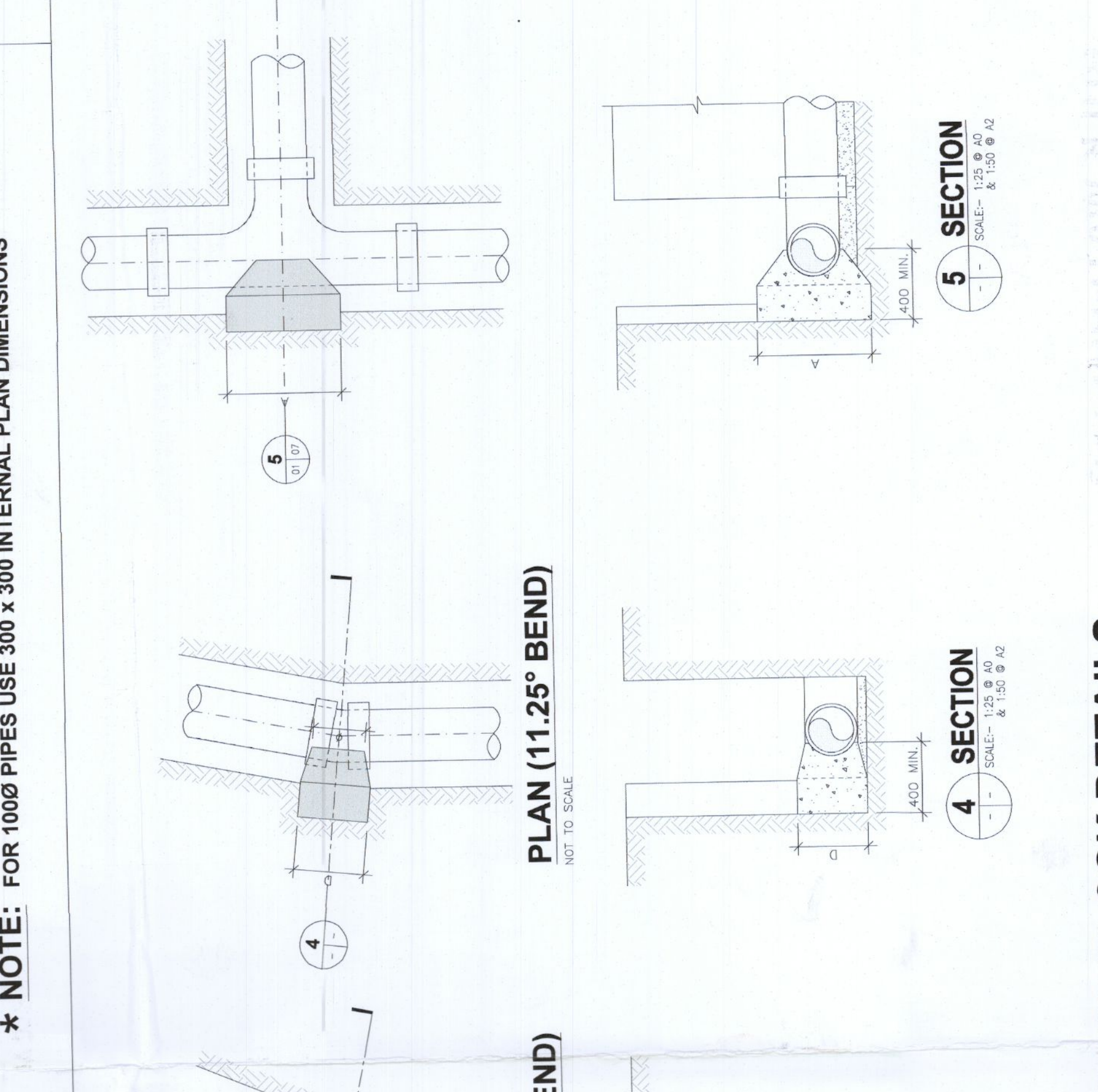
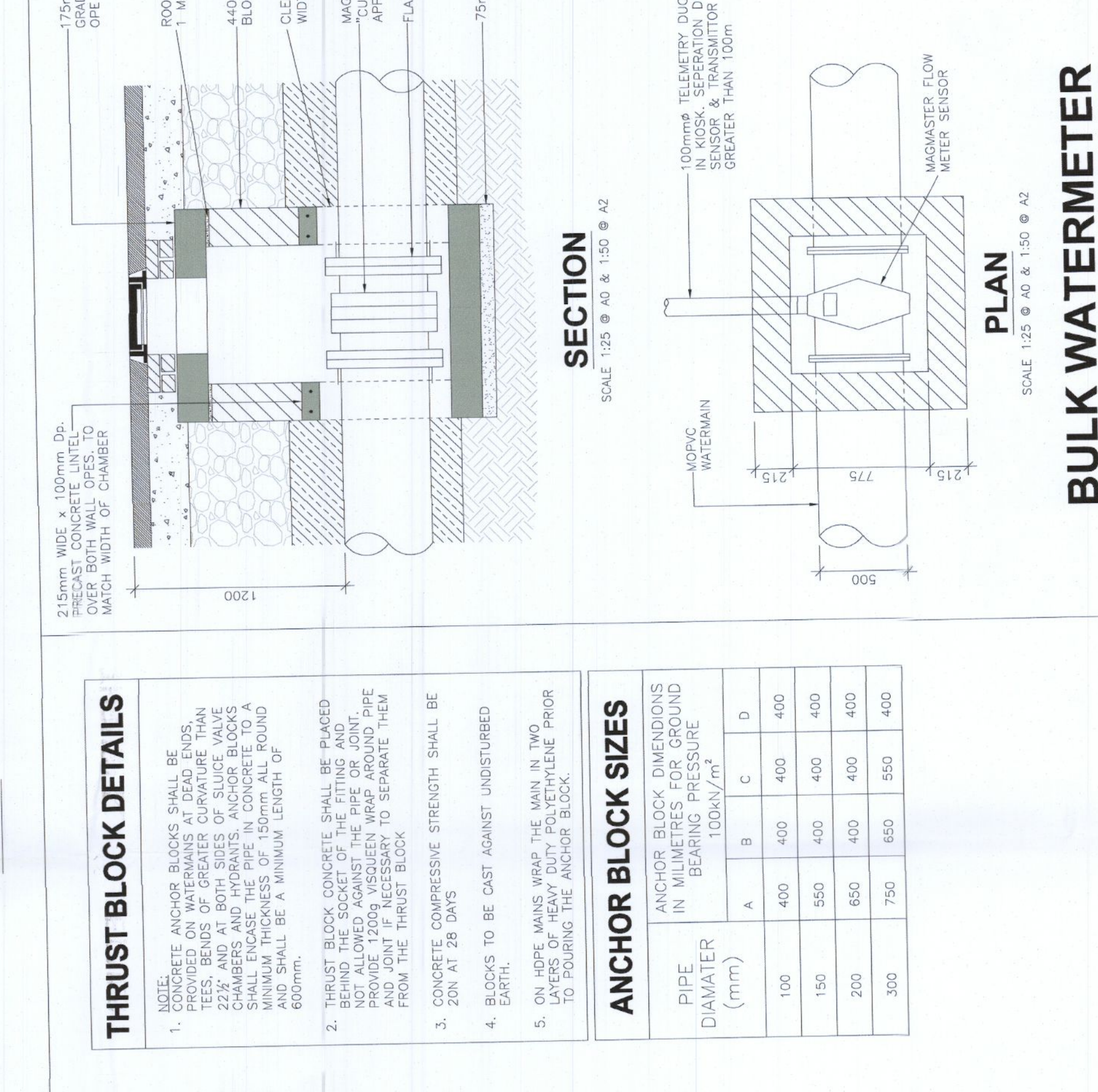
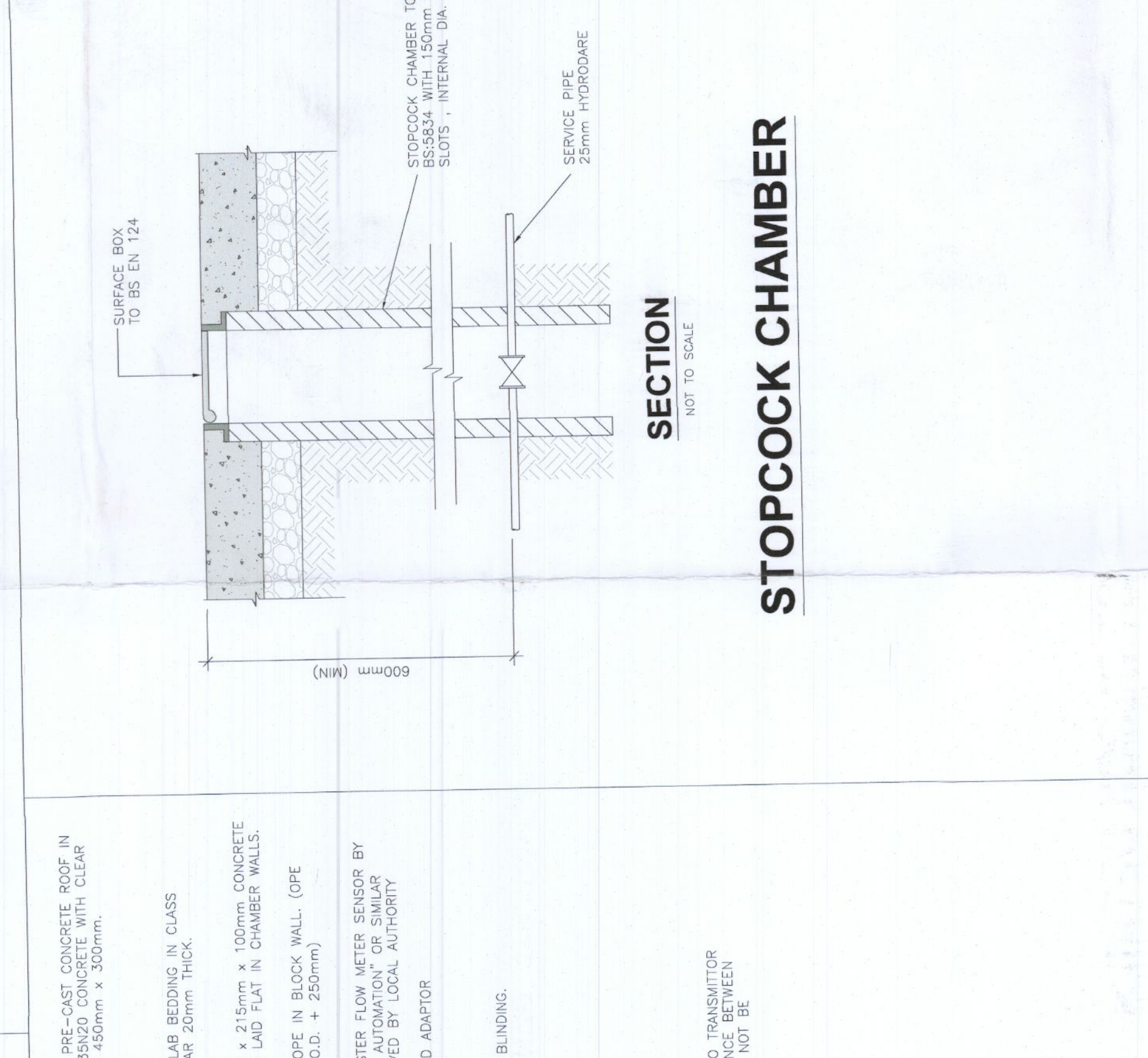
WATERMAIN TRENCH DETAIL
SCALE 1:10 @ A2 & 1:20 @ A3



SINGLE AIR VALVE PLAN
SCALE 1:10 @ A2 & 1:20 @ A3

HYDRANT PLAN
SCALE 1:10 @ A2 & 1:20 @ A3

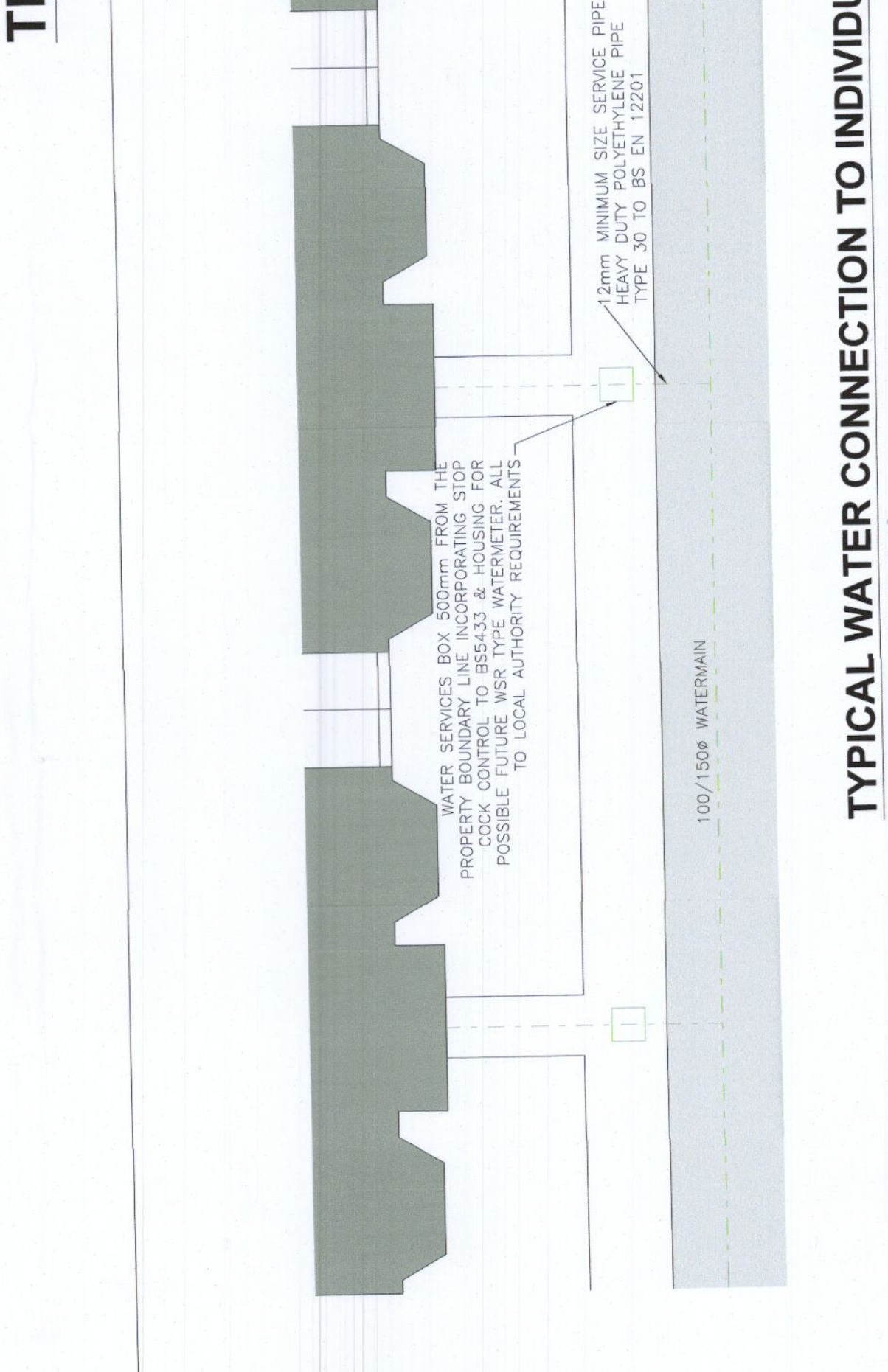
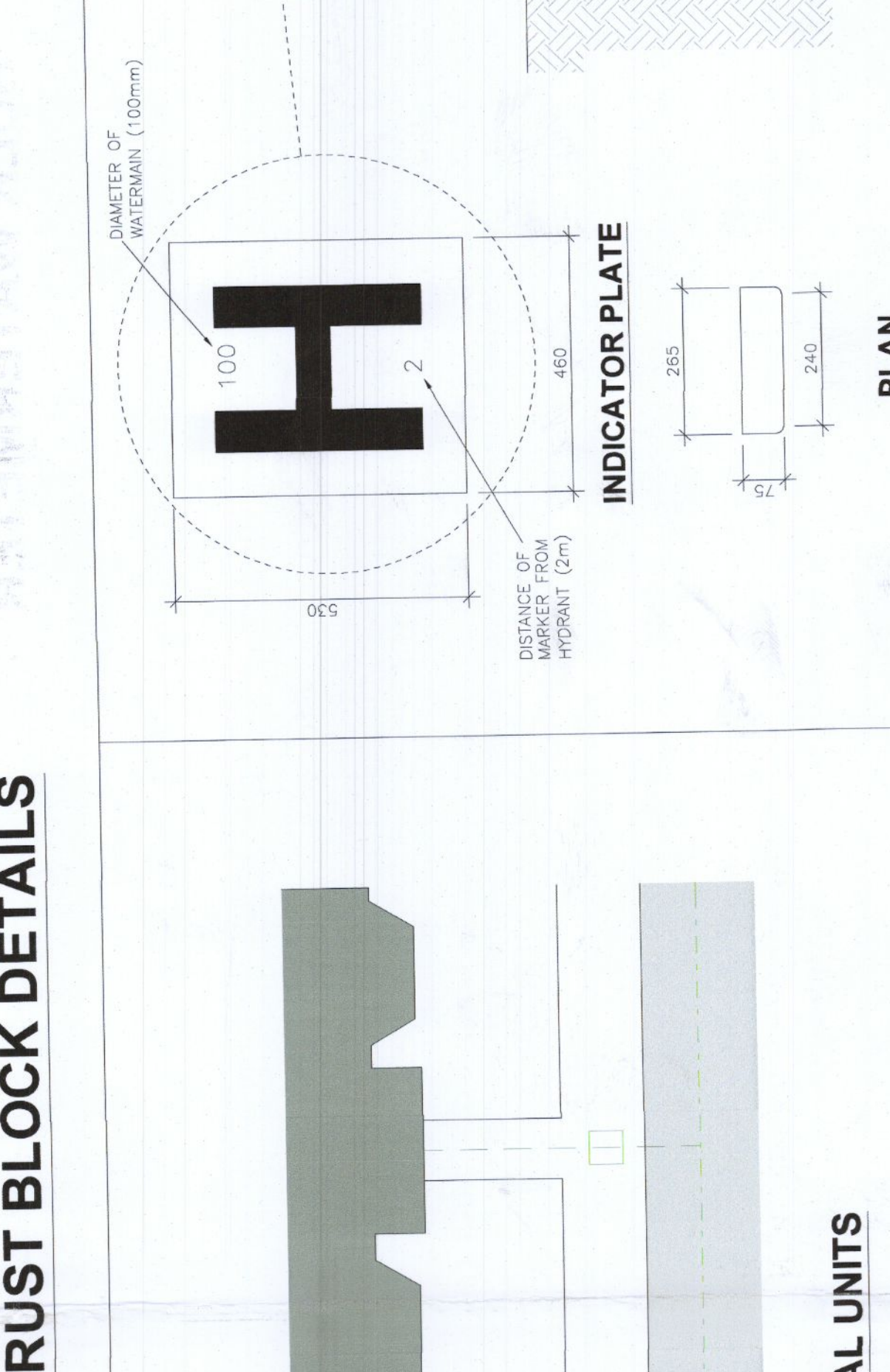
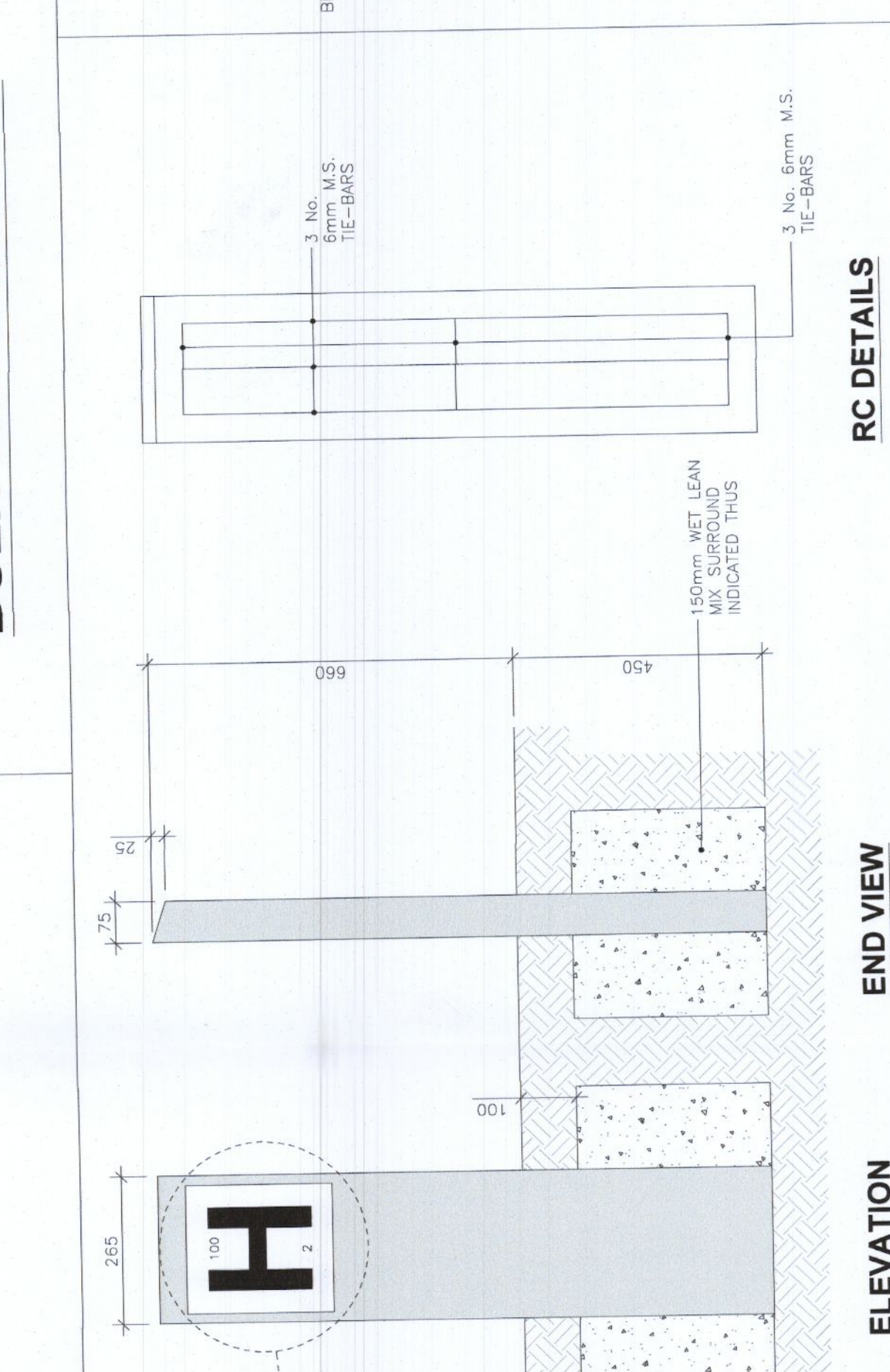
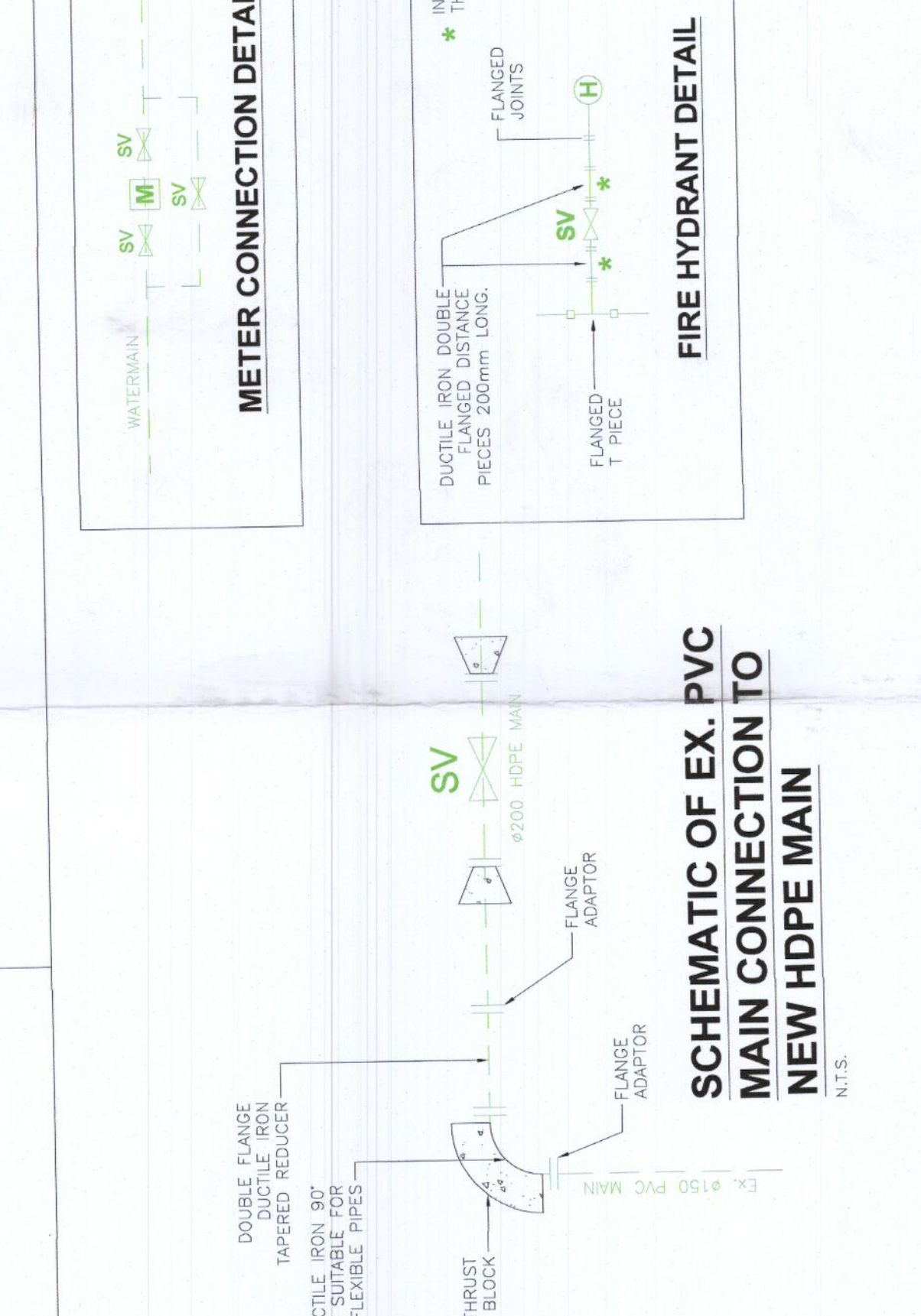
CONCRETE ENCASEMENT DETAIL WHERE MIN. COVER NOT PROVIDED
SCALE 1:10 @ A2 & 1:20 @ A3



AIR VALVE CHAMBER DETAILS
NOTE: FOR DOUBLE AIR VALVE USE 300 x 300 INTERNAL PLAN DIMENSIONS

HYDRANT CHAMBER DETAILS
NOTE: FOR 1000 PIPE USE 300 x 300 INTERNAL PLAN DIMENSIONS

CONCRETE ENCASEMENT DETAIL WHERE MIN. COVER NOT PROVIDED
SCALE 1:10 @ A2 & 1:20 @ A3

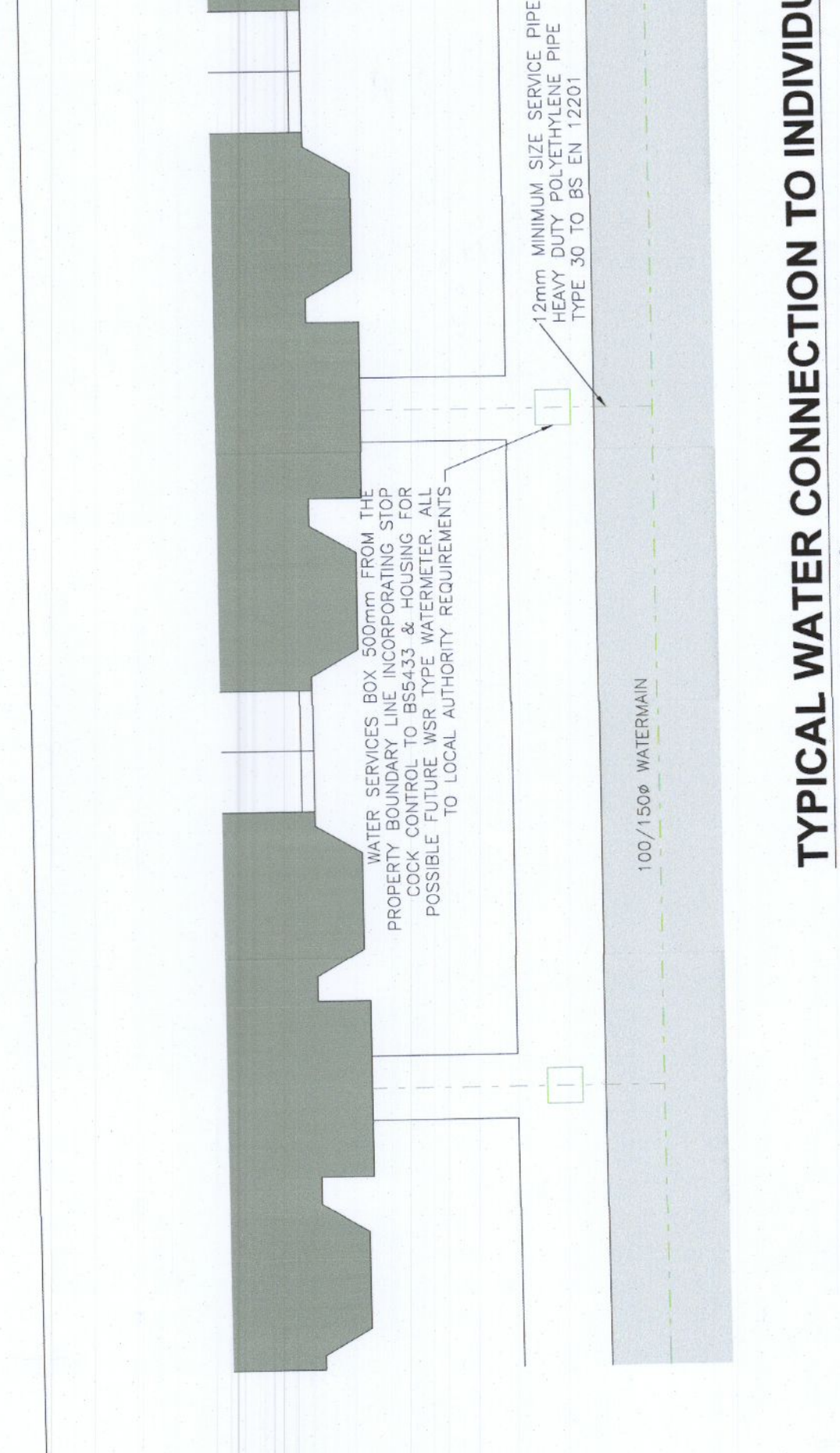
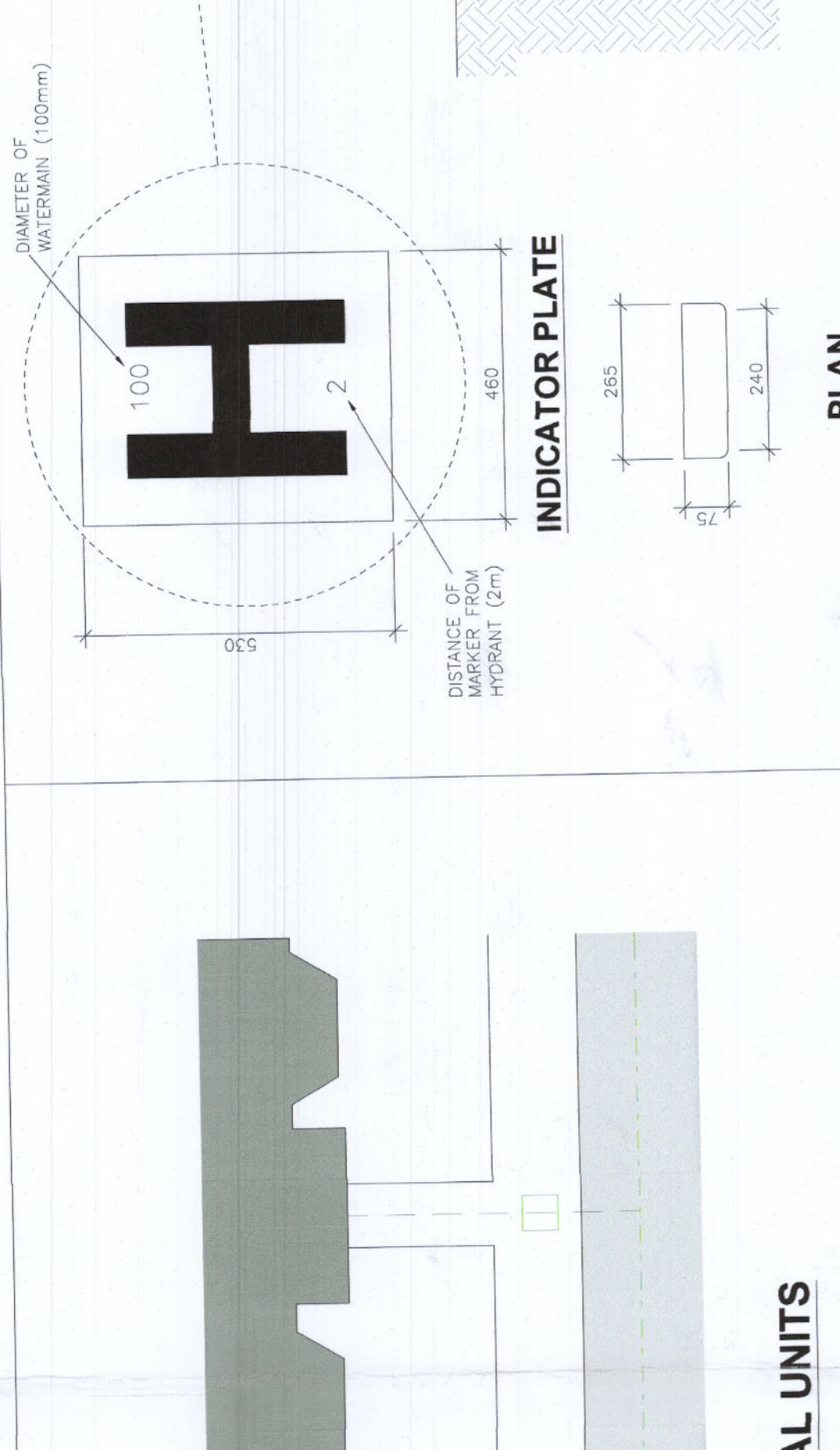
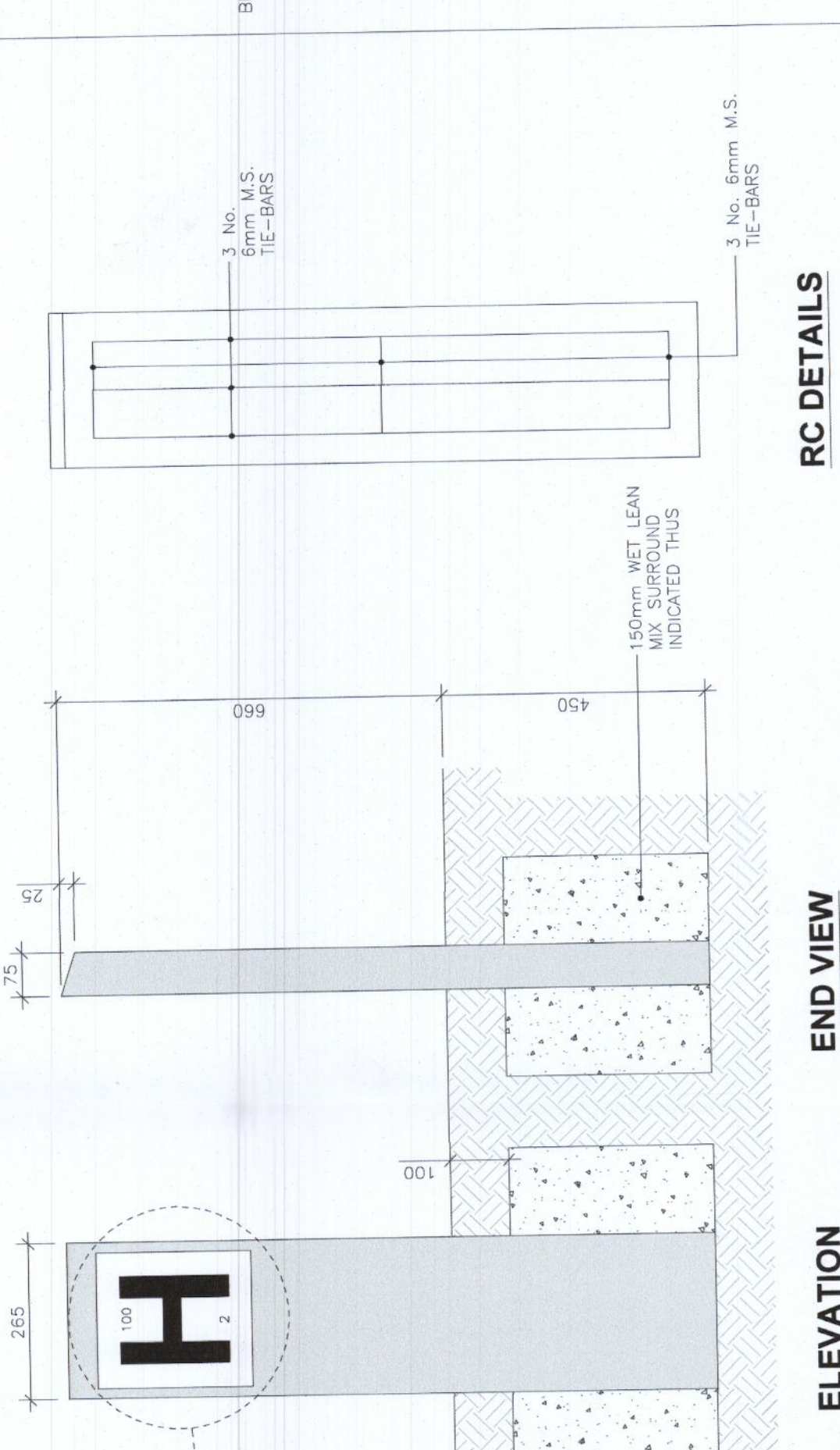
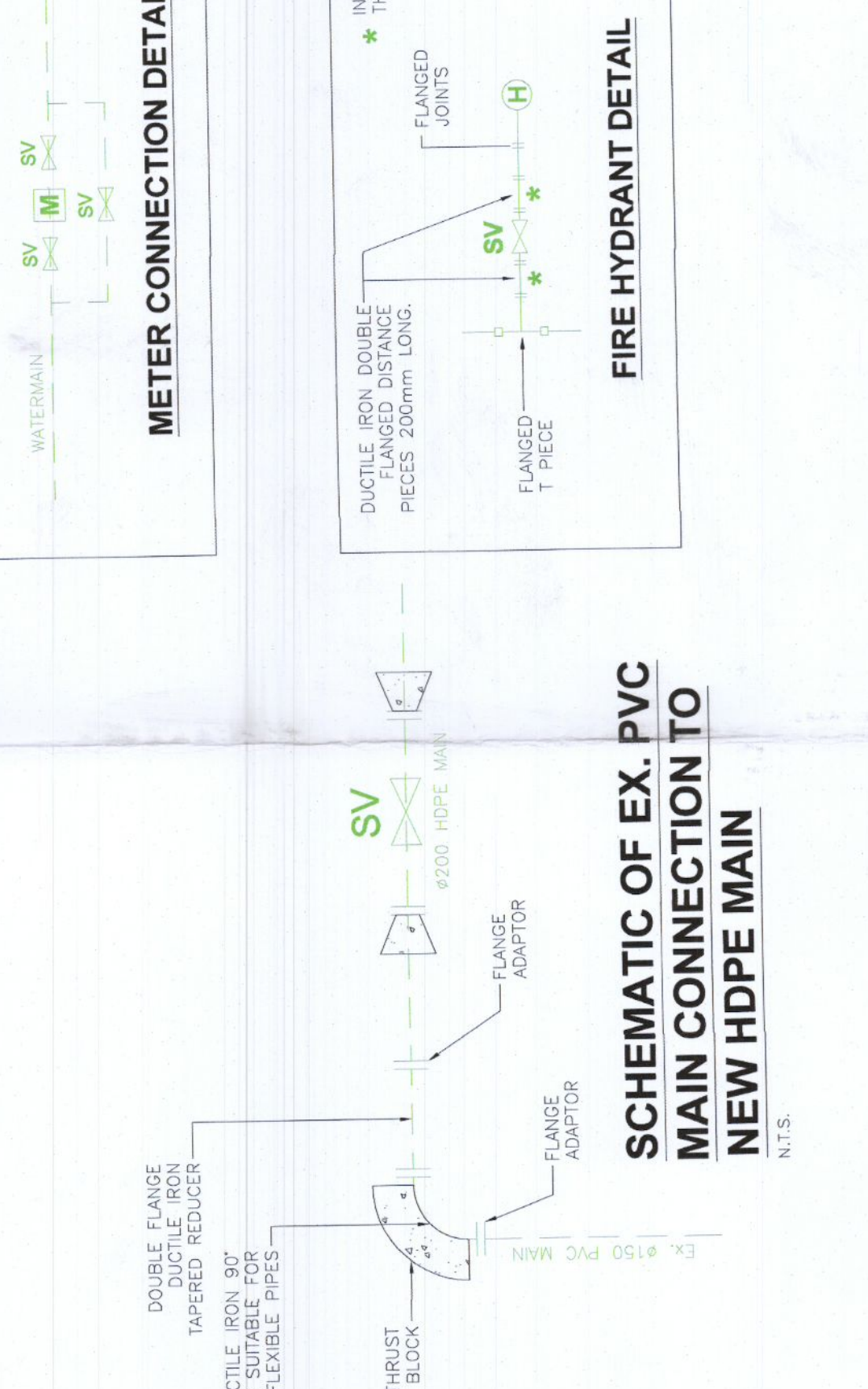


SECTION
NOT TO SCALE

SECTION
NOT TO SCALE

SECTION
SCALE 1:25 @ A2 & 1:50 @ A3

SECTION
SCALE 1:25 @ A2 & 1:50 @ A3

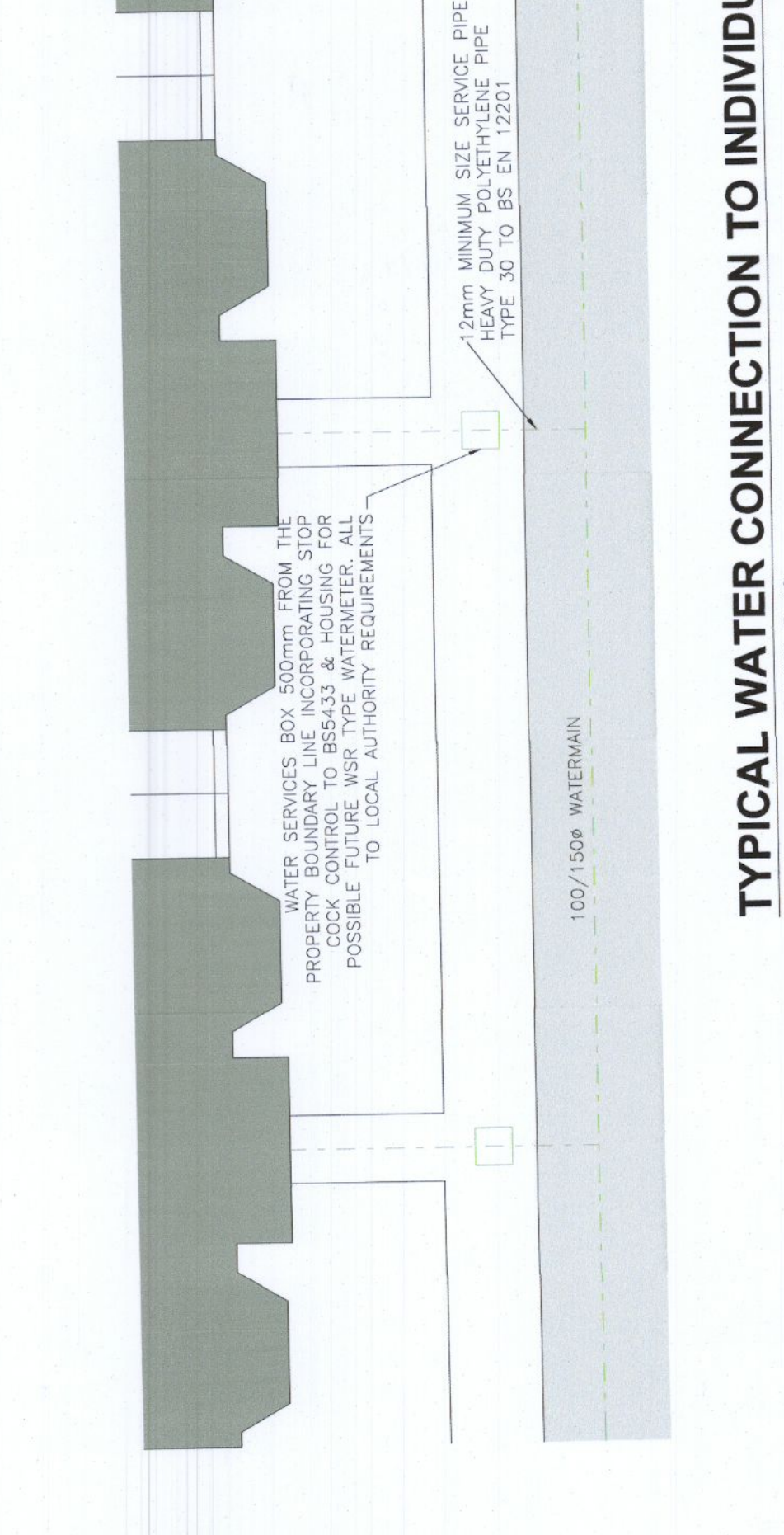
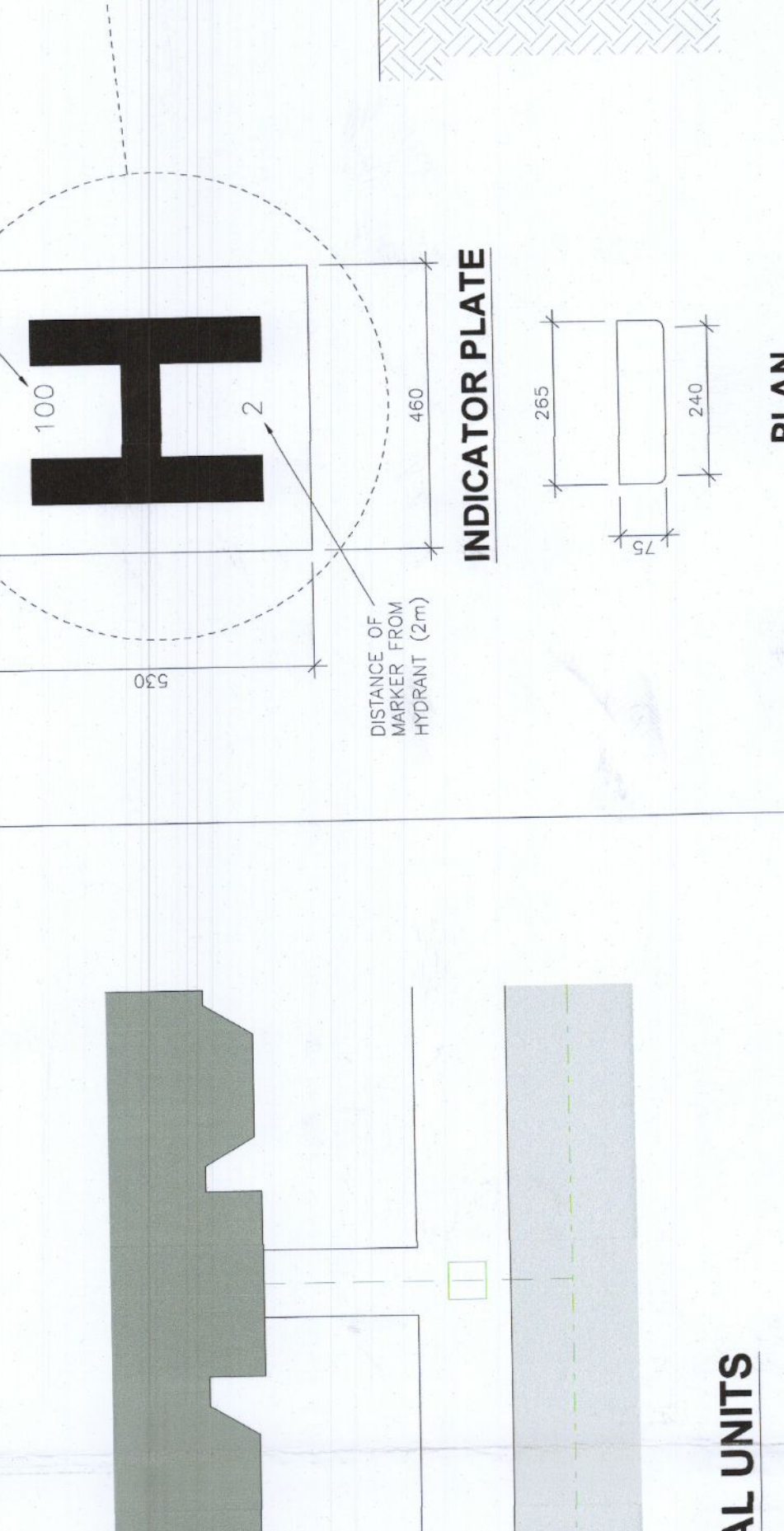
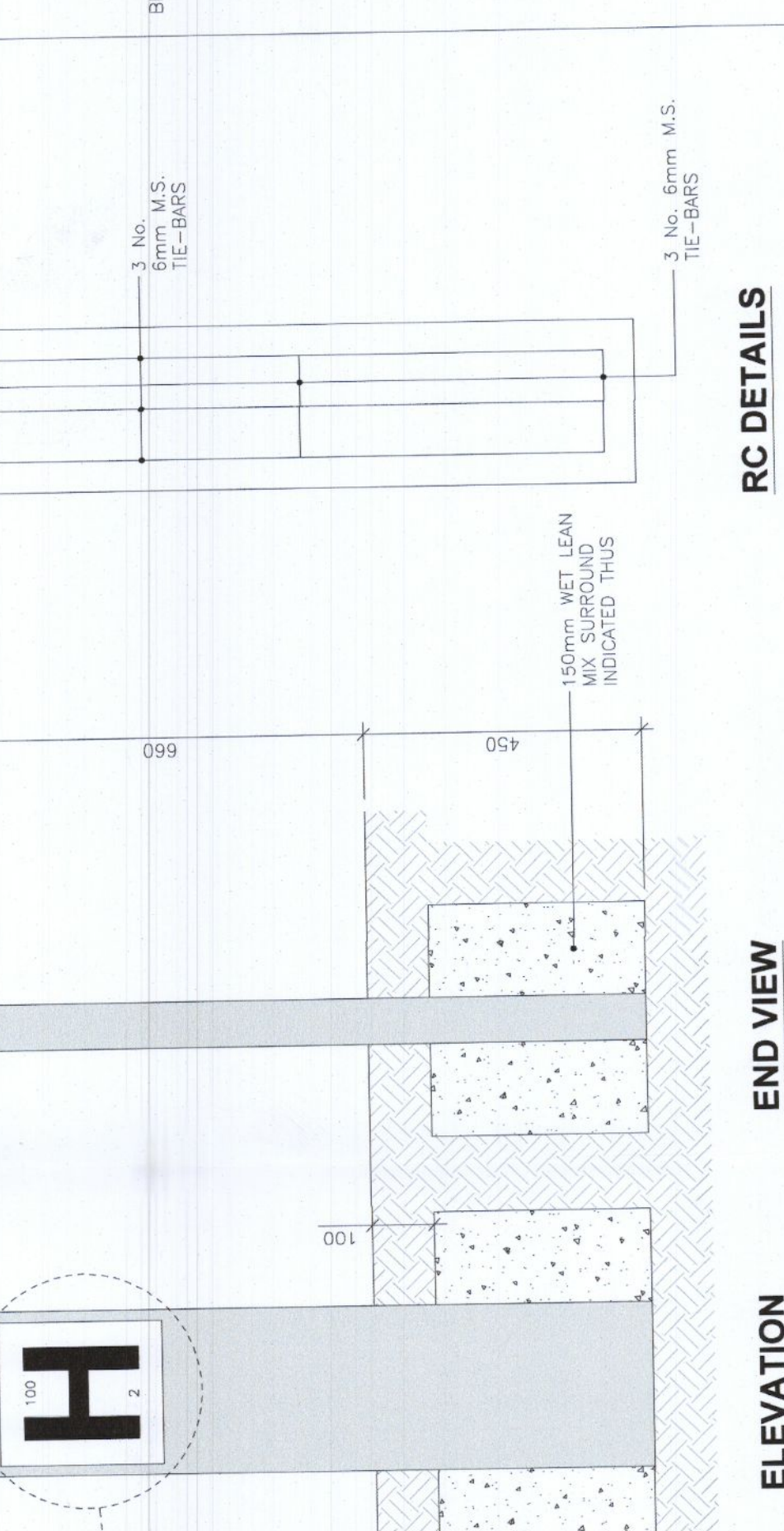
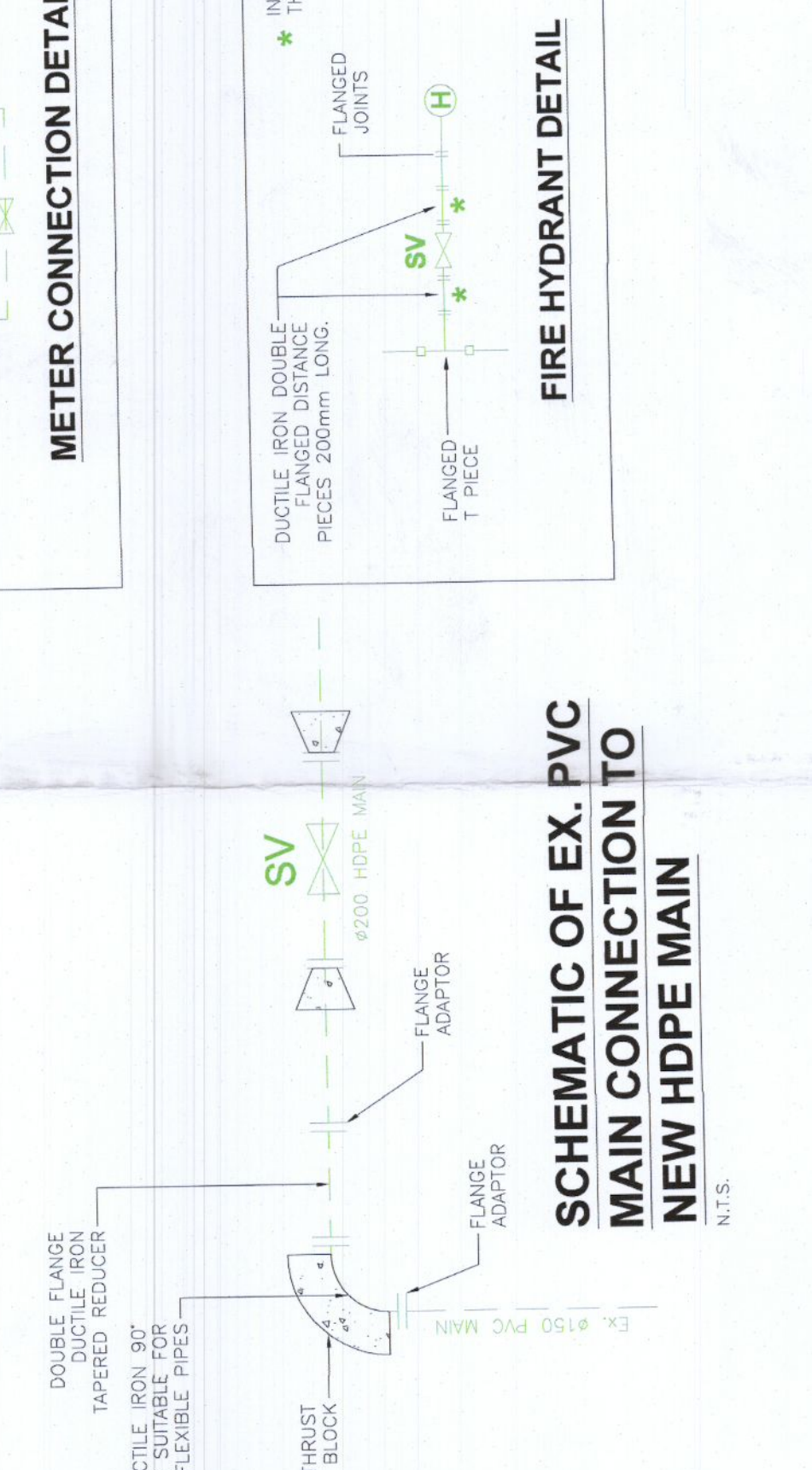


METER CONNECTION DETAIL

FIRE HYDRANT DETAIL

SCHEMATIC OF EX. PVC MAIN CONNECTION TO NEW HDPE MAIN
NOTE: FOR 1000 PIPE USE 300 x 300 INTERNAL PLAN DIMENSIONS

RC DETAILS



END VIEW

PLAN

TYPICAL WATER CONNECTION TO INDIVIDUAL UNITS
SCALE 1:10 @ A2 & 1:20 @ A3

TYPICAL WATER CONNECTION TO INDIVIDUAL UNITS
SCALE 1:10 @ A2 & 1:20 @ A3