

5/14/99

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

METRIC DETAIL DRAWING FOR
**CONCRETE RETAINING WALL
WITH BRICK VENEER AND HANDRAIL**

SHEET 1 OF 2
842D03

H	B
1.2m TO 1.8m	0.5H + 300mm
1.8m TO 3.0m	0.65H + 300mm

WALL HEIGHT (H) SHALL NOT EXCEED 3.0m

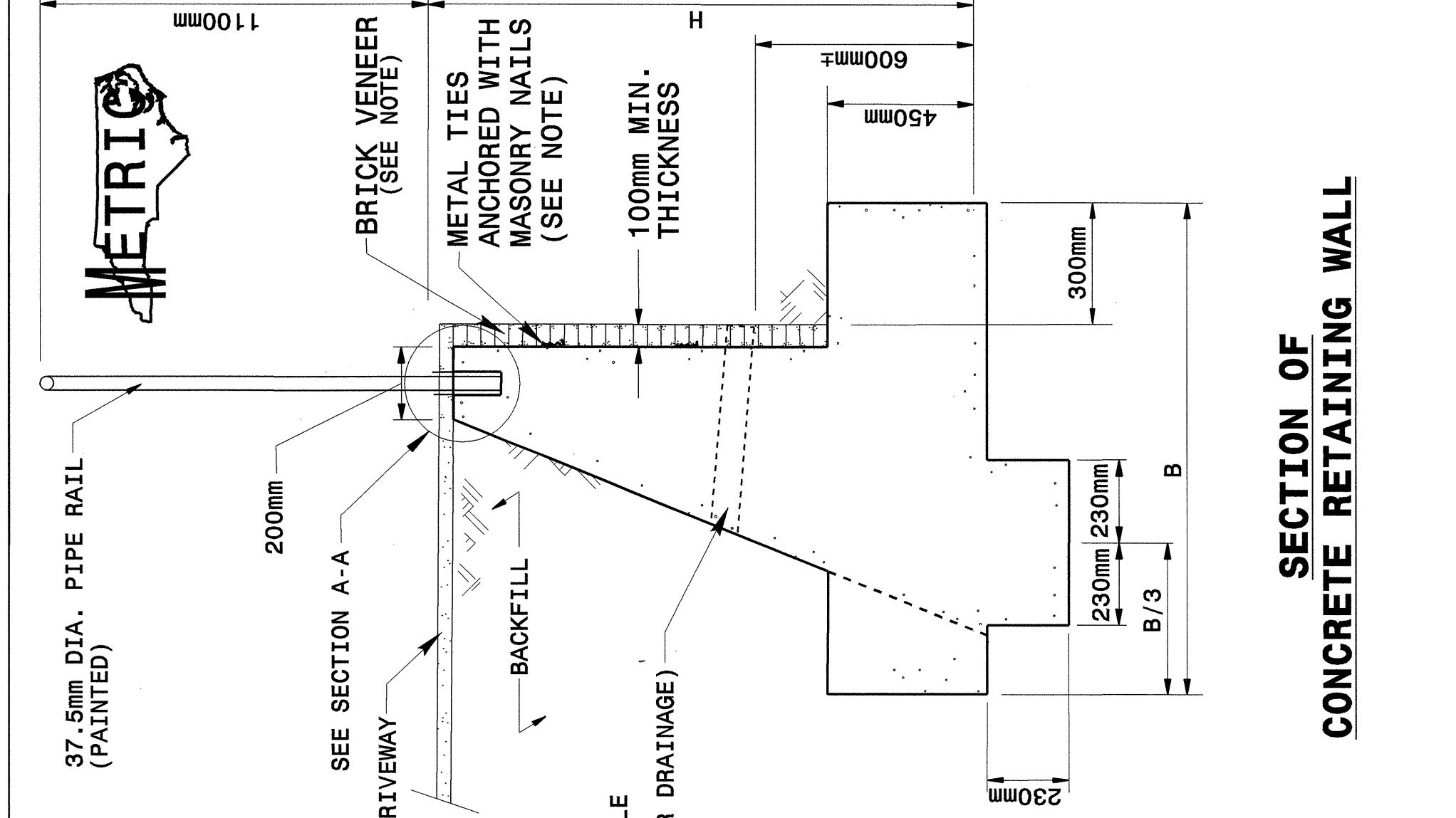
GENERAL NOTES :

- * PROPOSED STEEL PIPE RAIL SHALL BE CONSTRUCTED OF 37.5mm DIAMETER SCHEDULE 40 ERW GALVANIZED PIPE. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE DONE IN ACCORDANCE WITH SECTION 1076 OF THE STANDARD ROADWAY SPECIFICATIONS.
- * THE PROPOSED RAILING SHALL BE PRE-MEASURED AND CENTERED ON TOP OF WALL FOR POST SPACINGS. A ROTARY DRILL SHALL BE USED FOR DRILLING THE HOLES. NO IMPACT DRILLS SHALL BE ALLOWED, TO ELIMINATE ANY POSSIBILITY OF STRUCTURAL DAMAGES TO THE PROPOSED WALL.
- * ALL DESIGN IS A RECOMMENDED GUIDE TO THIS PIPE RAIL APPLICATION. FINAL ENGINEERING JUDGEMENT SHALL BE AT THE DISCRETION OF THE ENGINEER.
- * PAINTING SHALL BE DONE IN ACCORDANCE WITH SECTION 442 OF THE ROADWAY SPECIFICATIONS.
- * ENGINEER WILL VERIFY COLOR OF HANDRAIL WITH PROPERTY OWNER PER SPECIAL PROVISIONS.
- * EXACT LOCATIONS AND QUANTITIES GIVEN ARE APPROXIMATE ONLY.
- * ELEVATION OF BOTTOM OF THE FOOTING, WIDTH OF BASE AND HEIGHT OF WALL ARE TO BE DETERMINED BY THE ENGINEER.
- * WEEP HOLES 75mm IN DIAMETER SHALL BE PLACED AT ABOUT 3.0m INTERVALS JUST ABOVE THE SURFACE OF THE EXISTING GROUND.
- * A STONE DRAIN CONSISTING OF 0.028 CUBIC METERS OF #78M STONE CONTAINED IN A BAG OF POROUS FABRIC SHALL BE PLACED AT EACH WEEP HOLE. SUBDRAIN FINE AGGREGATE SHALL BE PLACED BENEATH, AROUND AND OVER THE STONE DRAIN SO THAT THE STONE DRAIN IS COVERED BY A LAYER OF SUBDRAIN FINE AGGREGATE AT LEAST 100mm THICK. A HORIZONTAL DRAIN OR SUBDRAIN FINE AGGREGATE AT LEAST 300mm SQUARE IN CROSS SECTION SHALL THEN BE PLACED TO CONNECT ALL STONE DRAINS.
- * PLACE A VERTICAL DRAIN OF SUBDRAIN FINE AGGREGATE AT LEAST 300mm SQUARE IN CROSS SECTION SHALL BE PLACED AT EACH WEEP HOLE TO AN ELEVATION OF 600mm BELOW THE SURFACE OF THE EMBANKMENT.
- * CLASS "A" CONCRETE IS TO BE USED THROUGHOUT FOR CONCRETE RETAINING WALLS.
- * IN CONCRETE RETAINING WALL, 13mm EXPANSION JOINT EVERY 17.6m.
- * ANCHOR BRICK VENEER TO CONCRETE RETAINING WALL WITH APPROVED METAL TIES ACCORDING TO MANUFACTURERS SPECIFICATIONS WITH A MINIMUM 400mm SPACING VERTICALLY AND 800mm SPACING HORIZONTALLY WITH EACH ROW STAGGERED 400mm FROM THE ROW ABOVE.
- * BRICK VENEER WILL NEED TO MATCH HOME.

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**SECTION OF
CONCRETE RETAINING WALL**

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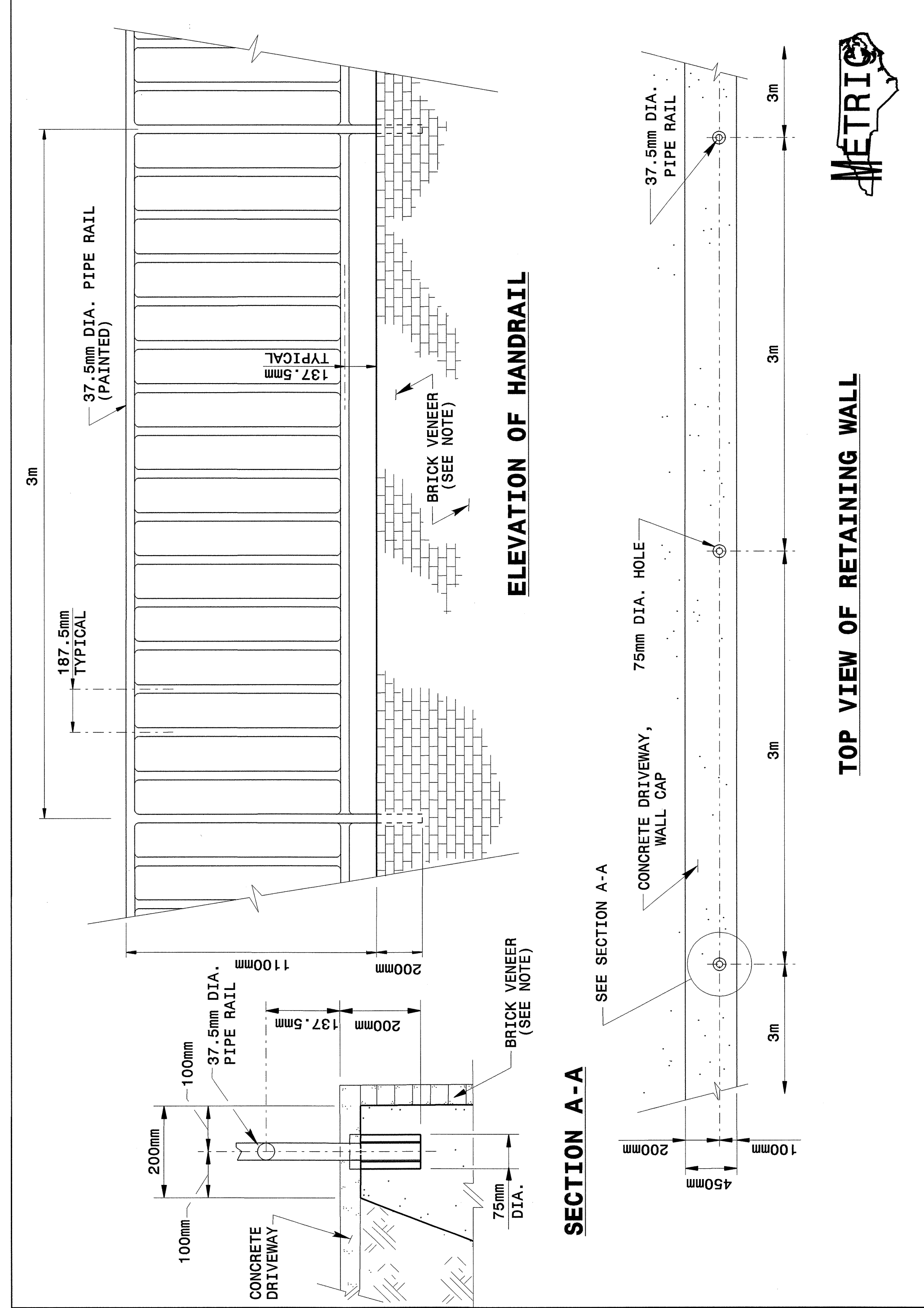
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DESIGN SERVICES UNIT
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SEE PLATE FOR TITLE
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