SECTION D'-D'
SCALE 1:75

GUARD RAIL ELEVATION
SCALE 1:75

SECTION a-a
SCALE 1:75

SECTION E-E
(2 SIDE WALL INLET DETAILED TYPICAL)
SCALE 1:75

BASE PLATE DETAILS
scale 1:10

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. ALL CONCRETE UNLESS OTHERWISE SPECIFIED SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS.
3. REINFORCING BARS SHALL BE DEFORMED GRADE 275Y.
4. THE MAXIMUM SIZE OF AGGREGATES FOR CAST-IN-PLACE CONCRETE SHALL BE 20mm, AND AGGREGATES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF AS 1465 WHEN TESTED IN ACCORDANCE WITH REQUIREMENTS OF AS 1141.
5. CONCRETE PROTECTION FOR REINFORCEMENT SHALL NOT BE LESS THAN THE FOLLOWING:

a) FROM THE GROUND CONTACT SURFACE OF CONCRETE FOOTINGS AND OTHER MEMBERS IN WHICH CONCRETE IS DEPOSITED AGAINS THE GROUND.....75mm.

b) FROM CONCRETE SURFACE EXPOSED TO WATER FLOW, OR BE IN CONTACT WITH THE GROUND AFTER REMOVAL OF FORMS:-
   i) FOR BARS LARGER THAN 16mmØ.....50mm.
   ii) FOR 16mmØ BARS AND SMALLER.....40mm.

6. LAPPING OF BARS SHALL BE 24 BAR DIAMETER FOR DEFORMED BARS AND 48 BAR DIAMETER FOR PLAIN BARS, SPLICES SHALL BE STAGGERED.
7. MINIMUM DISTANCE BETWEEN PARALLEL BARS SHALL BE 50mm.
8. ALL EXPOSED EDGES SHALL BE ROUNDED OR CHAMFERED.
9. ALL BARS WHEN REQUIRED SHALL BE BENT COLD.
10. HOOKS FOR BENDS WHEN SHOWN IN THE DRAWING SHALL HAVE THE FOLLOWING DIMENSIONS.

r = 2 1/2 BAR DIAMTER FOR 10mmØ, 12mmØ, OR 16mmØ BARS

11. ALL ROUND HOLLOW STEEL SHALL BE GALVANIZED MILD STEEL AND OF SCHEDULE 40.

DRAWN VIVIENNE ALIFERETI	DATE OCTOBER 2020
DESIGNED KHIN MAUNG CHO	CHECKED
SENIOR DRAFTSPERSON	
SENIOR DESIGN ENGINEER	
PRINCIPAL ENGINEER KHIN MAUNG CHO	
SCALE 1:75	

MINISTRY OF WATERWAYS & ENVIRONMENT
DEPARTMENT OF WATERWAYS
LEVEL 3 BALI TOWER
318 TOORAK ROAD
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PROJECT
SOASOA DRAINAGE SCHEME

DRAWING TITLE
CROSS SECTION D'-D' & E-E & DETAILS FOR GUARD RAILS - 5 BARREL TRASH RACK STRUCTURE

SHEET 4 OF 5 SHEETS	DRAWING NUMBER N/D/LB 1174