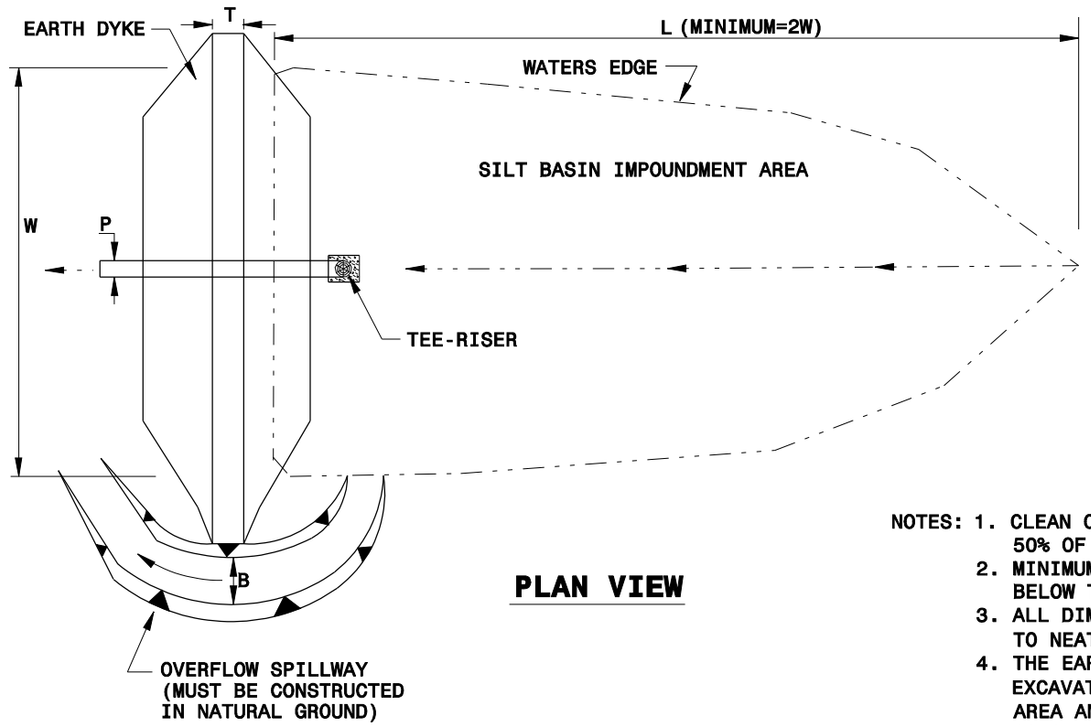
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

METRIC STANDARD DRAWING FOR

RISER BASIN



PLAN VIEW

NOTES:
1. CLEAN OUT BASIN WHEN SEDIMENT VOLUME REACHES 50% OF STORAGE VOLUME.
2. MINIMUM SURFACE AREA AND MINIMUM VOLUME ARE MEASURED BELOW THE TOP OF PRINCIPAL SPILLWAY (TOP OF RISER).
3. ALL DIMENSIONS OF BASIN WILL NOT REQUIRE CONSTRUCTION TO NEAT LINES.
4. THE EARTH DYKE MAY BE CONSTRUCTED ALONG ONE OR MORE SIDES. EXCAVATION MAY BE REQUIRED TO PROVIDE MINIMUM SURFACE AREA AND/OR MINIMUM STORAGE VOLUME.
5. CONSTRUCT THE DYKE TO MEET ROADWAY EMBANKMENT SPECIFICATIONS.
6. TO FACILITATE DETERMINATION OF MAINTENANCE CLEANOUT REQUIREMENT, PLACE A MARKER IN THE BASIN INDICATING THE 50% VOLUME LEVEL.

STANDARD BASIN DIMENSIONS

P	D.A. (MAX)	DENUDED AREA (MAX)	H	T (MIN)	D*	E	F	B (MIN)	X (MIN)	Y (MIN)	X1 (MIN)	Y1 (MIN)	SURFACE AREA (MIN)	STORAGE VOLUME (MIN)
mm	ha	ha	m	m	m	m	m	m	m	m	m	m	m^2	m^3
400	1.2	0.8	0.3	1.8	1.8	1.2	0.3	0.9	0.8	0.3	0.8	0.3	98	153
450	1.8	1.2	0.3	1.8	2.0	1.4	0.3	1.2	1.1	0.3	1.0	0.3	130	229
600	3.6	2.4	0.3	1.8	2.4	1.8	0.3	2.4	1.7	0.3	1.5	0.3	261	459
800	6.5	4.0	0.3	1.8	2.9	2.1	0.5	2.4	2.3	0.3	2.1	0.3	424	765

* SHALL NOT EXCEED 3.6m

Note:
This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

SHEET 1 OF 2

1630.01

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