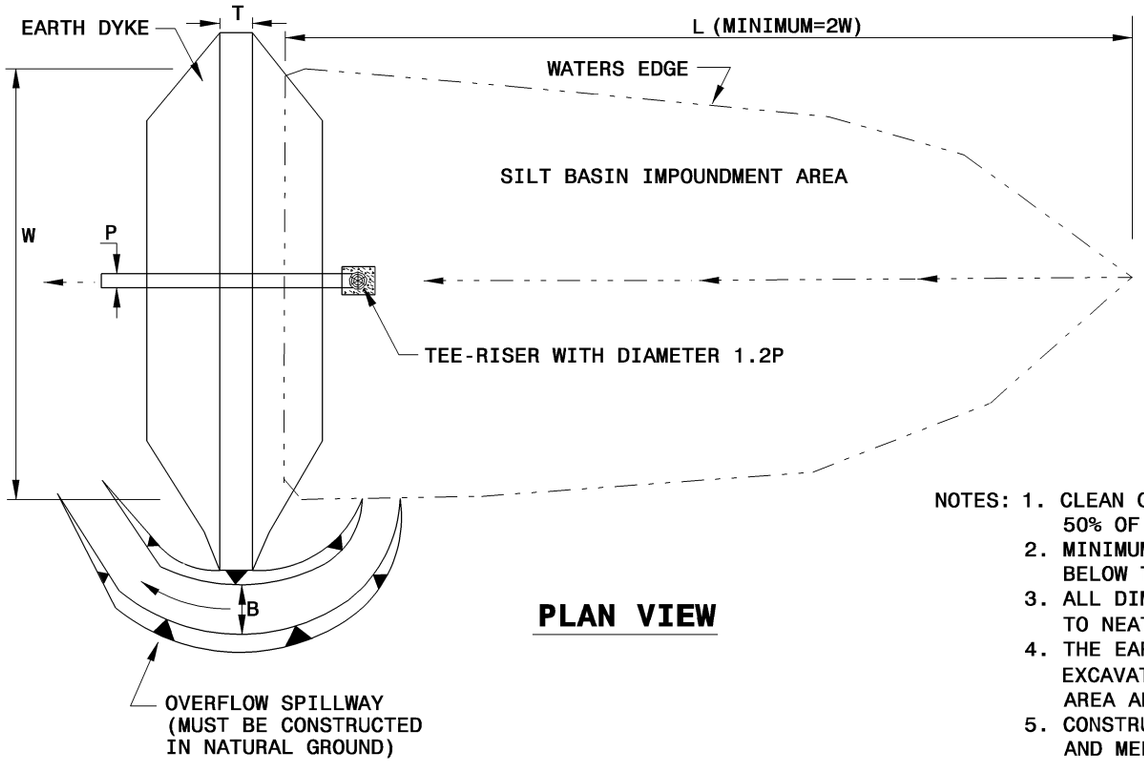
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

ENGLISH 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 OF MATERIAL SUITABLE FOR AND MEETING ROADWAY EMBANKMENT SPECIFICATIONS.
6. TO FACILITATE DETERMINATION OF MAINTENANCE CLEANOUT REQUIREMENT, PLACE A MARKER IN THE BASIN INDICATING THE 50% VOLUME LEVEL.
7. THE MINIMUM RISER PIPE DIAMETER IS 1.2 TIMES THE BARREL PIPE DIAMETER.

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)
IN.	Ac	Ac	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.^{2}	YD.^{3}
15	3.0	2.0	1.0	6.0	6.0	4.0	1.0	3.0	2.7	1.0	2.5	1.0	1050	200
18	4.5	3.0	1.0	6.0	6.5	4.5	1.0	4.0	3.5	1.0	3.2	1.0	1400	300
24	9.0	6.0	1.0	6.0	8.0	6.0	1.0	8.0	5.5	1.0	5.0	1.0	2810	600
30	16.0	10.0	1.0	6.0	9.5	7.0	1.5	8.0	7.6	1.0	6.9	1.0	4560	1000

* SHALL NOT EXCEED 12′

SHEET 1 OF 2

1630.01

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

7-06

ENGLISH STANDARD DRAWING FOR

RISER BASIN

SHEET 1 OF 2

1630.01