



NOTE:-

1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED. ONLY RETAINING DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION SHALL BE TO BE SOOLED.
2. CONCRETE SHALL BE DESIGN M20 AND SHALL HAVE MINIMUM 28 DAYS CHARACTERISTIC CURVE STRENGTH AS FOLLOWS:
 - a. RCC RETAINING WALL – M40
 - b. RCC CRASH BARRIER – M40
3. ALL INTENDED REINFORCEMENT SHALL BE TMT BARS WITH GRADE DESIGNATION S-500 HAVING A YIELD STRENGTH OF 500 MPa CONFORMING TO IS:1786 STANDARD.
4. BACK FILLING BEHIND WALLS SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX-4 OF IRC:78-2014 HAVING PROPERTIES:
 - $C=0$, $e=30$ AND $d=200\text{mm}/3$
5. NOT MORE THAN SIZE OF BARS SHALL BE LAPPED AT ANY LOCATION. LAP LENGTH SHALL BE $1.3 \times L_d$
6. WEEPHOLES, DIAMETER 100mm, SHALL BE PROVIDED AT SUITABLY STAGGERED SPACING NOT EXCEEDING 1M IN BOTH DIRECTIONS.
7. CLEAR COVER TO OUTERMOST REINFORCEMENT IN RETAINING WALL AND THAT OF FOOTING SHALL BE 50 AND 75mm RESPECTIVELY.
8. REINFORCEMENT OF RCC CRASH BARRIER SHALL BE ANCHORED IN RETAINING WALL BEFORE CASTING THE SAME.
9. 600mm THICK FILTER MATERIAL BEHIND RETAINING WALL SHALL BE LAID AS PER APPENDIX 6 OF IRC:78-2014.
10. THE RETAINING WALL IS DESIGNED FOR THE SBC OF SOIL AS GIVEN IN TABLE, ANY CHANGE IN SBC SHOULD BE NOTIFY TO THE ENGINEER BEFORE LAYING OF THE CONCRETE.
11. FOR INTERMEDIATE HEIGHTS, THE DETAILS OF NEXT HIGHER HEIGHT SHALL BE USED.
12. THIS RETAINING WALLS ARE APPLICABLE FOR HORIZONTAL SURCHARGE ONLY. PLEASE ENQUIRE AT SITE.
13. SPECIFIED SBC AS SHOWN IN DRAWING SHOULD BE VERIFIED AT SITE BEFORE CASTING OF WORK.
14. 20mm SPACER DISK JOINTS WITH SUITABLE FILL MATERIAL IN JOINTS (BETWEEN PILES) SHOULD BE PROVIDED AT SUITABLE INTERVALS (APPROXIMATELY 20m) BETWEEN RETAINING WALLS.

DIMENSION DETAILS OF RETAINING WALL											DESIGN SNO
Sl.No	h	ht	a	b	c	d	e	f	g	h	
1	800	1800	150	150	800	1300	3000	300	400	300	450
2	2000	2000	200	350	1300	1000	3300	300	450	300	450
3	2000	2000	200	450	1800	1000	3800	450	600	450	600
4	2000	3000	200	800	1800	1200	4100	450	800	450	800
5	2000	4000	300	600	3000	2300	4600	500	800	400	600
6	2000	5000	300	800	2200	2800	5300	500	800	500	800

SCHEDULE OF REINFORCEMENT

Height (m)	Shops store	1500	2000	2500	3000	4000	5000
Start	End	Bar D.C. Spacing	Bar D.C. Spacing	Bar D.C. Spacing	Bar D.C. Spacing	Bar D.C. Spacing	Bar D.C. Spacing
1	---	12 175 C/C	16 200 C/C	16 200 C/C	16 200 C/C	16 100 C/C	16 100 C/C
2	---	---	---	12 135 C/C	12 100 C/C	12 100 C/C	12 100 C/C
3	---	10 135 C/C	10 175 C/C	16 200 C/C	16 200 C/C	16 100 C/C	16 100 C/C
4	---	10 135 C/C	10 200 C/C	10 200 C/C	10 200 C/C	10 200 C/C	10 100 C/C
5	---	10 135 C/C	10 300 C/C	10 300 C/C	10 300 C/C	10 200 C/C	10 100 C/C
6	---	10 135 C/C	10 300 C/C	10 300 C/C	10 300 C/C	10 200 C/C	10 100 C/C
7	---	10 135 C/C	10 150 C/C	20 150 C/C	12 125 C/C	20 100 C/C	20 100 C/C
8	---	10 135 C/C	12 150 C/C	12 150 C/C	12 125 C/C	12 100 C/C	12 100 C/C
9	---	10 135 C/C	12 200 C/C	10 200 C/C	10 200 C/C	10 200 C/C	12 100 C/C
10	---	10 135 C/C	12 125 C/C	10 125 C/C	12 125 C/C	10 100 C/C	10 100 C/C
n	---	800	800	850	1050	1150	1250


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