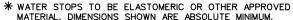
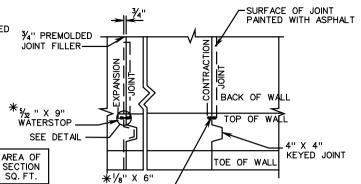
SECTION 400

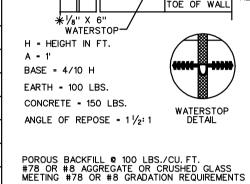
RETAINING WALLS



EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 90'.



HEIGHT OF WALL "H" IN FEET	THICKNESS AT TOP "A" IN FEET	THICKNESS AT BASE B=.4H	BASE AT TOE		
2	1'-0''	1'-0''	627	2.63	
3	п	1'-23/8''	1009	3.93	
4	п	1'-71/4"	1369	5.83	
5	п	2'-0"	1709	8.13	
6	п	2'-4¾''	2049	10.83	
7	п	2'-95/8"	2385	13.93	
8	п	3'-2¾''	2720	17.43	
9	п	3'-7 / ₄ ''	3054	21.33	
10	п	4'-0"	3386	25.63	
11	п	4'-4¾''	3718	30.33	
12	п	4'-95/8''	4050	35.43	
13	п	5'-23/8''	4381	40.93	
14	п	5'-7 / ₄ ''	4712	46.83	
15	11	6'-0''	5043	53.13	



WEEP HOLE WITH 12"X12"
PLASTIC HARDWARE CLOTH 1/4"
MESH OR GALVANIZED STEEL
WIRE, MINIMUM WIRE DIAMETER
0.03",**4 MESH HARDWARE
CLOTH ANCHORED FIRMLY TO
OUTSIDE OF STRUCTURE.

3" DRAIN PIPE 8' APART

NOTE:
IF COMPRESSION AT TOE EXCEEDS SAFE BEARING
CAPACITY OF SOIL, A SPECIAL FOOTING IS TO BE USED.
DEPTH OF WALL IN GROUND DETERMINED BY
CONDITIONS. TO BE NOT LESS THAN 1'-6".

SPECIFICATION REFERENCE

CONCRETE GRAVITY RETAINING WALL - LEVEL BACKFILL

506

VIRGINIA DEPARTMENT OF TRANSPORTATION

REV 8/07 401.01

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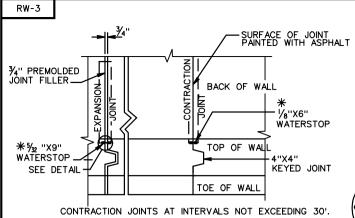
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NOT LOADED

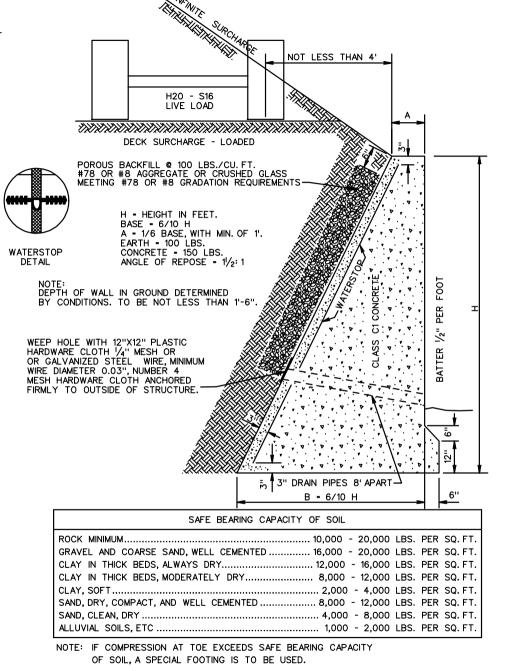
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EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 90'.

* WATER STOPS TO BE ELASTOMERIC OR OTHER APPROVED MATERIAL. DIMENSIONS SHOWN ARE ABSOLUTE MINIMUM.

HEIGHT OF WALL "H" IN FEET	THICKNESS AT TOP "A" IN FEET	THICKNESS AT BASE B=.6H	COMPRESSION AT TOE LBS. PER SQ. FT.	AREA OF SECTION SQ. FT.	
3	1'-0"	1'-95/8''	856	4.83	
4	1'-0"	2'-4¾"	1141	7.43	
5	1'-0"	3'-0"	1427	10.63	
6	1'-0"	3'-71/4"	1712	14.43	
7	1'-0"	4'-23/8"	1997	18.83	
8	1'-0"	4'-95%''	2283	23.83	
9	1'-0"	5'-4¾''	2568	29.43	
10	1'-0"	6'-0"	2853	35.63	
11	1'-1 1/4 "	6'-71/4"	3139	42.98	
12	1'-2 3/8 "	7'-23/8"	3424	51.03	
13	1'-3 5/8 "	7'-9%"	3709	59.78	
14	1'-4 3/4 "	8'-4¾''	3995	69.23	
15	1'-6"	9'-0"	4280	79.38	



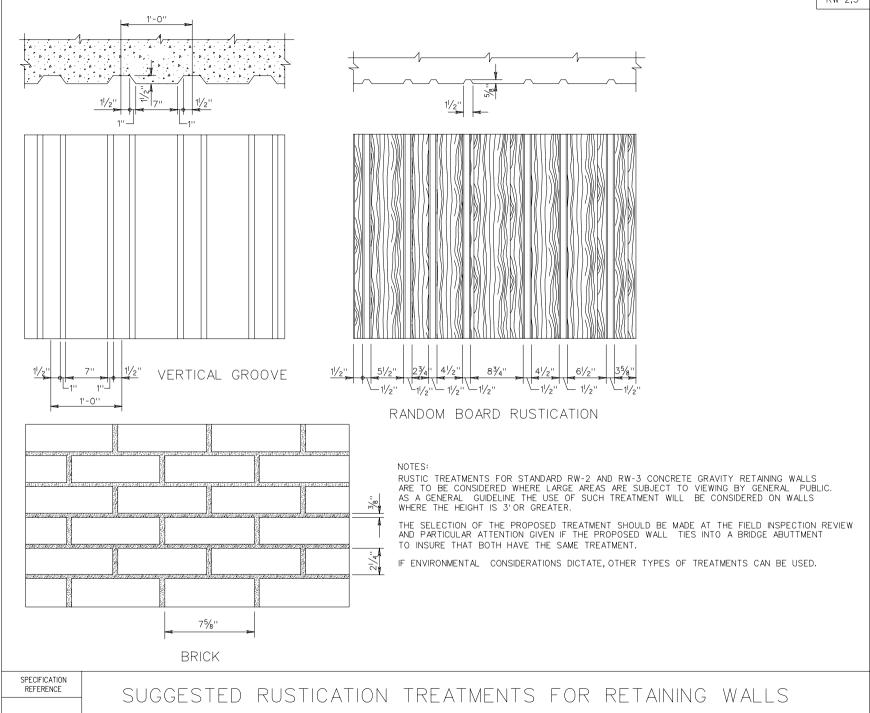
CONCRETE GRAVITY RETAINING WALLS INFINITE SURCHARGE AND DECK SURCHARGE - LOADED

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

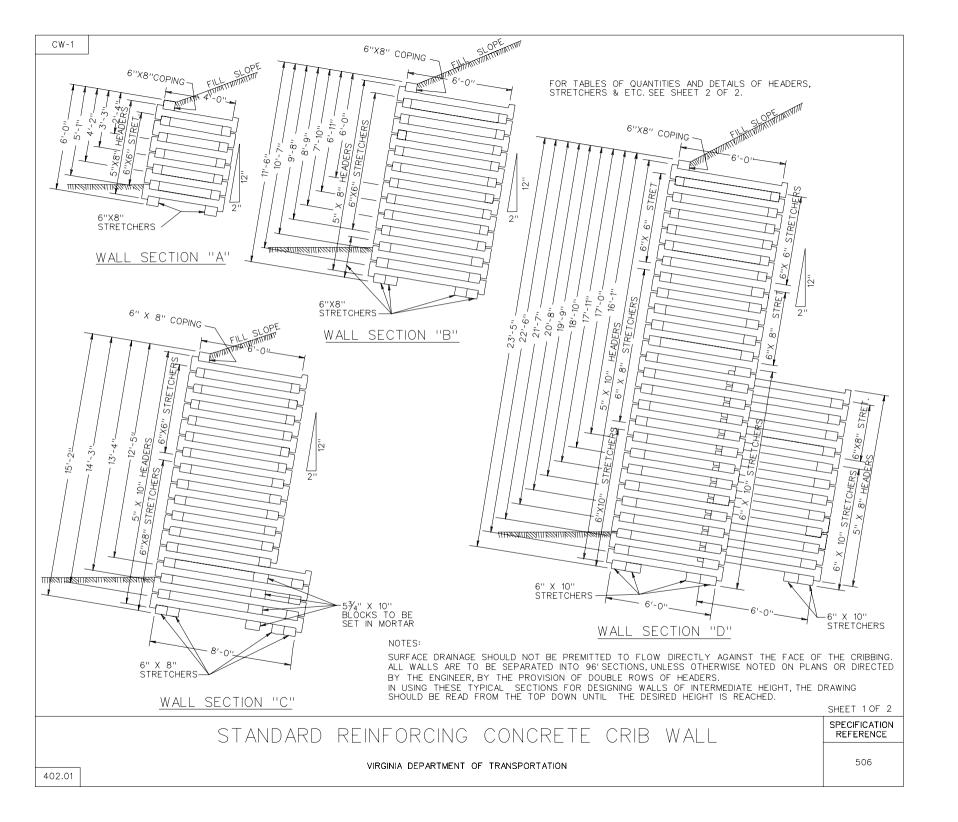
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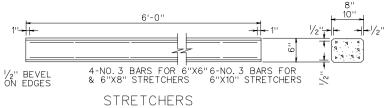
REV 8/07 401.02

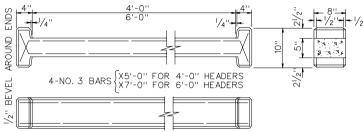


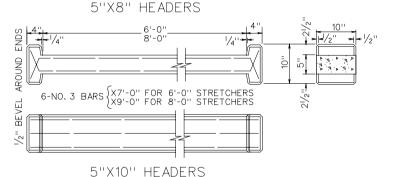
VIRGINIA DEPARTMENT OF TRANSPORTATION

401.03









UNIT	WEIGHT	CU. FT.	
5"X8"X4'-0" HEADER	235#	1.48	
5"X8"X6'-0" HEADER	325#	2.04	
5"X10"X6'-0" HEADER	405#	2.55	
5"X10"X8'-0" HEADER	515#	3.24	
6"X6"X6'-0" STRETCHER	240#	1.50	
6"X8"X6'-0" HEADER	320#	2.00	
6"X10"X6'-0" HEADER	400#	2.50	
5¾"X10"X10" BLOCK	50#	0.33	

NOTES:

ALL REINFORCING TO BE NO. 3 BARS PLACED 1" CLEAR FROM SURFACE OF CONCRETE.

BARS TO BE HELD IN POSITION BY CHAIRS HAVING NON-CORROSIVE TIPS CLASS A-5 CONCRETE TO BE USED EXCEPT MAXIMUM SIZE AGGREGATE TO BE NO. 7.

HEIGHT	UNITS REQUIRED FOR TYPICAL WALL 96' LONG								
OF	HEADERS			ST	RETCHE	RS	BL'K'S	_ ĕ	
WALL	5"X8" X4'-0"		5''X10'' X6'-0''		6"X6" X6'-0"	6''X8'' X6'-0''		5¾"X 10"X10"	WALL
2'-4"	34				32	48			
3'-3''	51				64	48			
4'-2"	68				96	48			 <
5'-1''	85				128	48			
6'-0''	102				160	48			
6'-0''		102			224	16			
6'-11''		119			256	16			
7'-10''		136			288	16			
8'-9"		153			320	16			<u> </u>
9'-8''		170			288	80			
10'-7''		187			288	112			
11'-6''		204			288	144			
12'-5''			204	17	192	272		17	
13'-4''			204	34	192	304		34	اٍ
14'-3"			204	51	192	336		51	
15'-2"			204	68	192	368		68	
16'-1''		68	289		192	336	144		Q.,
17'-0"		85	306		192	320	208		
17'-11''		102	323		192	320	256		
18'-10''		119	340		192	320	304		
19'-9''		136	357		192	320	352		
20'-8"		153	374		192	320	400		
21'-7''		170	391		192	320	448		
22'-6''		187	408		192	320	496		
23'-5"		204	425		192	320	544		

CRIBBING IS TO BE PLACED ON A FOUNDATION OF FIRM BEARING MATERIAL MEETING THE APPROVAL OF THE ENGINEER.

THIS FOUNDATION IS TO BE AT LEAST 3'BELOW THE SURFACE OF THE GROUND, BEYOND ALL DANGER OF FROST, UNLESS ON SOLID ROCK.

FOR DETAILS NOT SHOWN ON THIS SHEET, SEE SHEET 1 OF 2. BLOCKS SHALL BE SET IN MORTAR.

SPECIFICATION REFERENCE 506

STANDARD REINFORCED CONCRETE CRIB WALL

VIRGINIA DEPARTMENT OF TRANSPORTATION

402.02

SHEET 2 OF 2