

WIND EXPOSURE & VELOCITY		
NOISE BARRIER TYPE	WIND EXPOSURE	WIND VELOCITY (MPH)
17A	B1	80
17B	B1	90
17C	B2	80
17D	B2	90

CMU = CONCRETE MASONRY UNIT

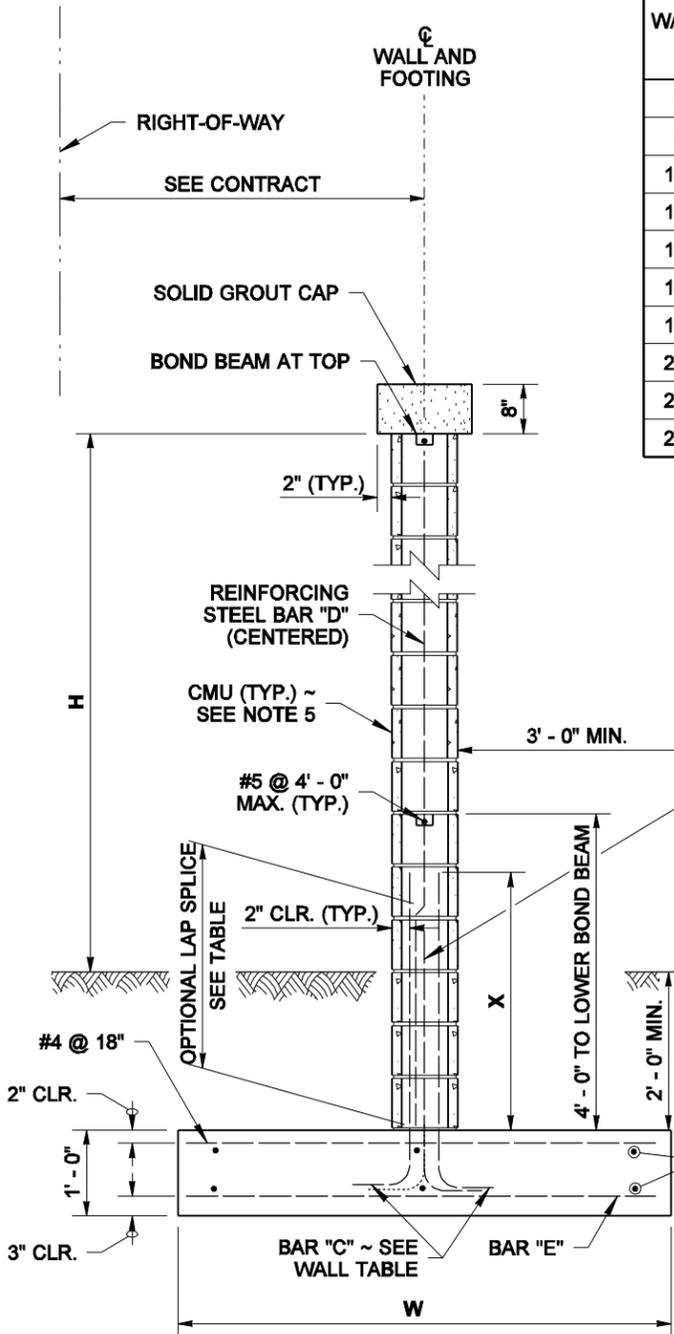
WALL HT H	TYPE 17A							WALL HT H	TYPE 17B						
	CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"		CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"
6' - 0"	8"	—	2' - 0"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	6' - 0"	8"	—	12' - 3"	3 ~ #4	—	#6 @ 48"	#4 @ 18"
8' - 0"	8"	—	2' - 3"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	8' - 0"	8"	—	2' - 9"	4 ~ #4	—	#6 @ 48"	#4 @ 18"
10' - 0"	8"	—	2' - 6"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	10' - 0"	8"	—	3' - 3"	4 ~ #4	—	#6 @ 48"	#4 @ 18"
12' - 0"	8"	—	3' - 0"	4 ~ #4	—	#6 @ 48"	#4 @ 18"	12' - 0"	10"	4' - 0"	3' - 9"	4 ~ #4	—	#6 @ 40"	#4 @ 18"
14' - 0"	8"	—	3' - 3"	4 ~ #4	—	#6 @ 32"	#4 @ 18"	14' - 0"	10"	4' - 8"	4' - 3"	5 ~ #4	#6 @ 40"	#6 @ 40"	#4 @ 18"
16' - 0"	10"	5' - 4"	3' - 9"	5 ~ #4	—	#6 @ 32"	#4 @ 18"	16' - 0"	10"	5' - 4"	4' - 9"	5 ~ #4	#6 @ 32"	#6 @ 32"	#4 @ 18"
18' - 0"	10"	6' - 0"	4' - 0"	5 ~ #4	#6 @ 48"	#6 @ 48"	#4 @ 18"	18' - 0"	10"	6' - 0"	5' - 3"	6 ~ #4	#6 @ 24"	#6 @ 24"	#4 @ 18"
20' - 0"	10"	6' - 8"	5' - 0"	5 ~ #4	#6 @ 32"	#6 @ 32"	#4 @ 18"	20' - 0"	10"	8' - 0"	6' - 0"	5 ~ #4	#7 @ 24"	#7 @ 24"	#4 @ 18"
22' - 0"	10"	7' - 4"	5' - 6"	5 ~ #4	#6 @ 24"	#6 @ 24"	#4 @ 18"	22' - 0"	10"	10' - 0"	6' - 3"	5 ~ #4	#7 @ 16"	#7 @ 16"	#4 @ 12"
24' - 0"	10"	8' - 0"	6' - 0"	5 ~ #4	#6 @ 24"	#6 @ 24"	#4 @ 18"	24' - 0"	10"	12' - 0"	6' - 9"	5 ~ #4	#8 @ 16"	#8 @ 16"	#4 @ 12"

WALL HT H	TYPE 17C							WALL HT H	TYPE 17D						
	CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"		CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"
6' - 0"	8"	—	2' - 0"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	6' - 0"	8"	—	2' - 6"	3 ~ #4	—	#6 @ 48"	#4 @ 18"
8' - 0"	8"	—	2' - 6"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	8' - 0"	8"	—	3' - 3"	5 ~ #4	—	#6 @ 48"	#4 @ 18"
10' - 0"	8"	—	2' - 9"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	10' - 0"	10"	4' - 0"	3' - 6"	5 ~ #4	—	#6 @ 24"	#4 @ 18"
12' - 0"	8"	—	3' - 3"	3 ~ #4	—	#6 @ 40"	#4 @ 18"	12' - 0"	10"	4' - 0"	4' - 3"	5 ~ #4	#6 @ 32"	#6 @ 32"	#4 @ 18"
14' - 0"	10"	4' - 0"	3' - 9"	5 ~ #4	—	#6 @ 16"	#4 @ 18"	14' - 0"	10"	4' - 8"	4' - 9"	5 ~ #4	#6 @ 24"	#6 @ 24"	#4 @ 18"
16' - 0"	10"	4' - 8"	4' - 3"	5 ~ #4	#6 @ 40"	#6 @ 40"	#4 @ 18"	16' - 0"	10"	5' - 4"	5' - 6"	5 ~ #4	#6 @ 16"	#7 @ 16"	#4 @ 18"
18' - 0"	10"	5' - 4"	4' - 6"	5 ~ #4	#6 @ 32"	#6 @ 32"	#4 @ 18"	18' - 0"	10"	7' - 4"	6' - 0"	5 ~ #4	#7 @ 24"	#7 @ 16"	#4 @ 18"
20' - 0"	10"	6' - 0"	5' - 3"	5 ~ #4	#6 @ 24"	#6 @ 16"	#4 @ 18"	20' - 0"	10"	9' - 8"	6' - 6"	5 ~ #4	#7 @ 16"	#8 @ 16"	#4 @ 12"
22' - 0"	10"	7' - 0"	5' - 9"	5 ~ #4	#6 @ 16"	#6 @ 16"	#4 @ 18"	22' - 0"	10"	12' - 0"	7' - 0"	5 ~ #4	#7 @ 16"	#8 @ 16"	#4 @ 12"
24' - 0"	10"	8' - 0"	6' - 3"	5 ~ #4	#7 @ 16"	#7 @ 16"	#4 @ 12"	24' - 0"	10"	15' - 0"	7' - 6"	6 ~ #4	#7 @ 16"	#8 @ 16"	#4 @ 12"

**NOTES**

1. Wall to be designated Noise Barrier Wall Type 17A, 17B, 17C or 17D. The Contract specifies actual wall designations.
2. For intermediate wall heights, use the next higher H.
3. All masonry shall be hollow unit and installed as running bond.
4. All masonry is to be specially inspected.
5. All Concrete Masonry Unit (CMU) cells that have vertical steel reinforcing bars or bond beam units shall be filled with grout.
6. Panels shall have at least 3 feet of level ground on each side.
7. Construction joints in the footing shall be spaced at 120 feet maximum.
8. See "Masonry Wall Finishes and Details" sheets for masonry block finishes, special shapes, sizes and layout.



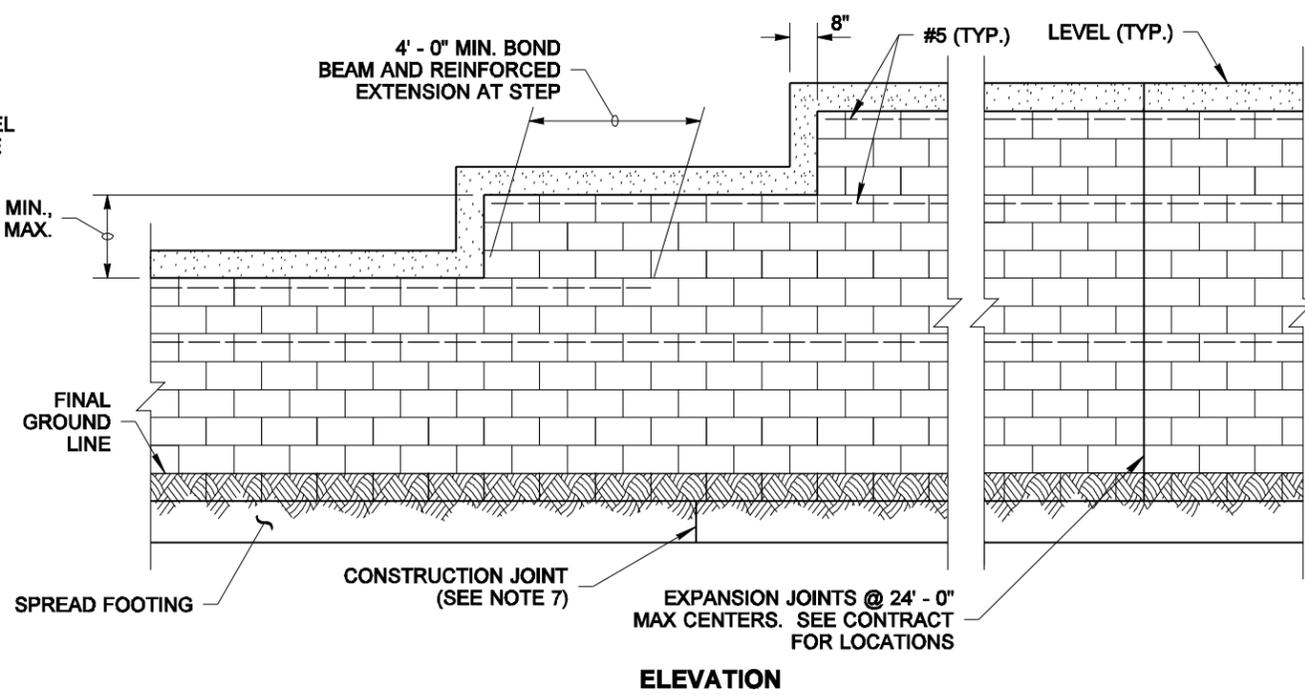
**TYPICAL SECTION**

BAR SIZE	SPLICE LENGTH
#6	2' - 8"
#7	3' - 8"
#8	4' - 10"

BAR W/ STANDARD HOOK, OR PROVIDE FOOTING DOWEL EXCEPT WHEN BARS "C" ARE REQUIRED

TWO BLOCKS MIN., THREE BLOCKS MAX.

CONTINUOUS FOOTING REINFORCING STEEL BAR "A" @ EQUAL SPACING WITH 2' - 0" MIN. SPLICE (TYP.)



**ELEVATION**

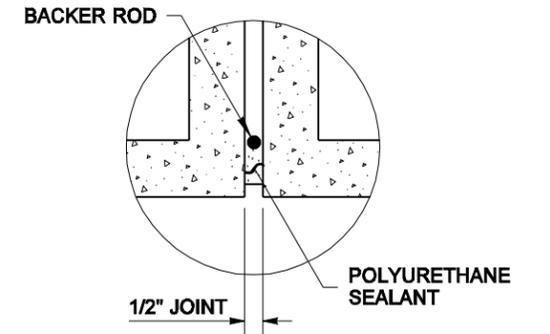
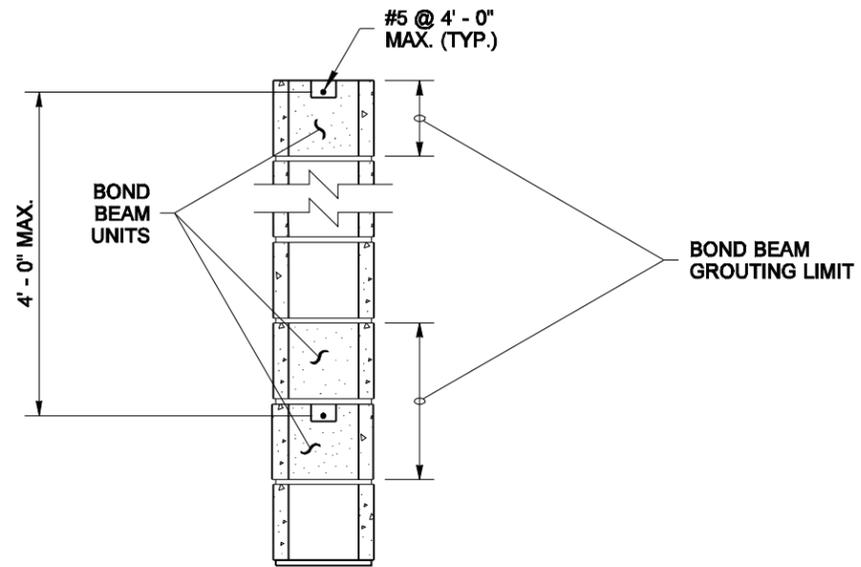
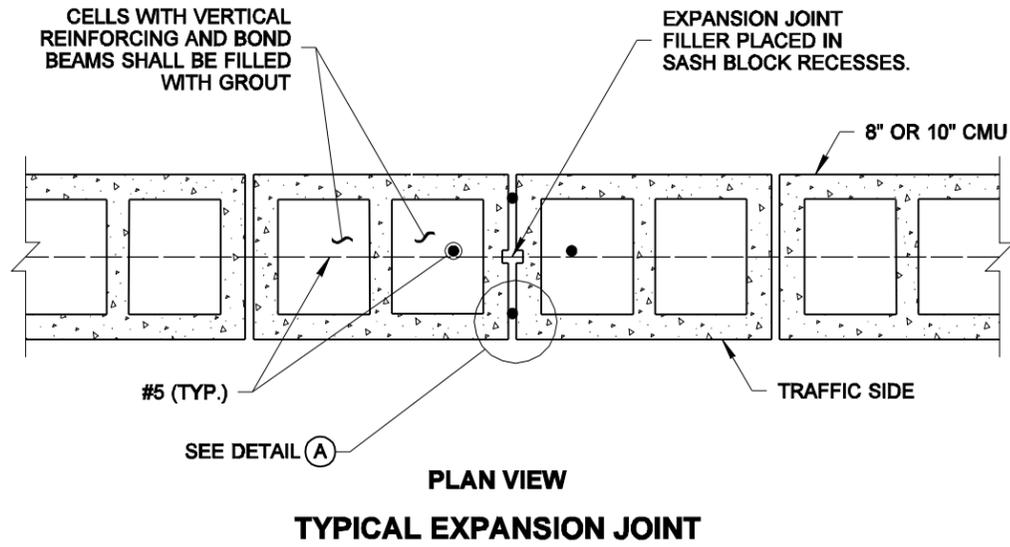
**MASONRY WALL ON SPREAD FOOTING**



**NOISE BARRIER WALL TYPE 17  
STANDARD PLAN D-2.62-00**

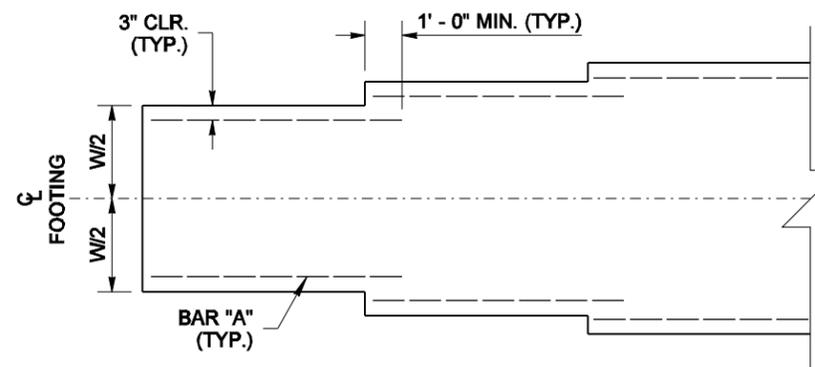
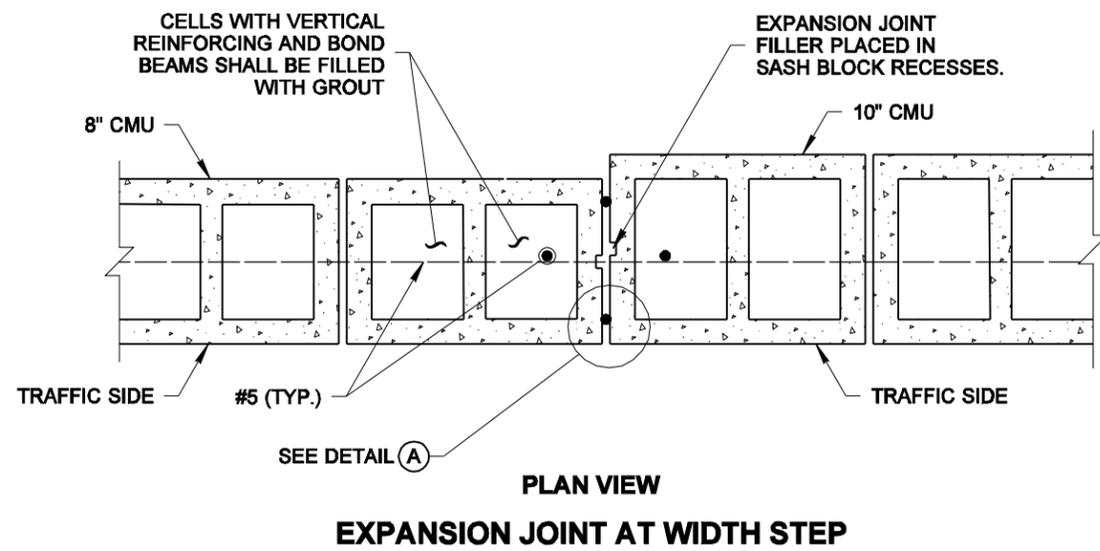
SHEET 1 OF 2 SHEETS  
APPROVED FOR PUBLICATION  
**Harold J. Peterfeso** 11-10-05  
STATE DESIGN ENGINEER DATE  
Washington State Department of Transportation

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**DETAIL A**  
TYPICAL BOTH SIDES OF WALL

**BOND BEAM DETAIL**



**FOOTING WIDTH TRANSITION DETAIL**  
(FOR LOCATIONS WITHOUT FOOTING STEP)  
NOTE: TRANSVERSE BARS NOT SHOWN

**MASONRY WALL ON SPREAD FOOTING**



EXPIRES AUGUST 23, 2006

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**NOISE BARRIER WALL TYPE 17**  
**STANDARD PLAN D-2.62-00**

SHEET 2 OF 2 SHEETS

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