

WIND EXPOSURE & VELOCITY		
NOISE BARRIER TYPE	WIND EXPOSURE	WIND VELOCITY (MPH)
18A	B1	80
18B	B1	90
18C	B2	80
18D	B2	90

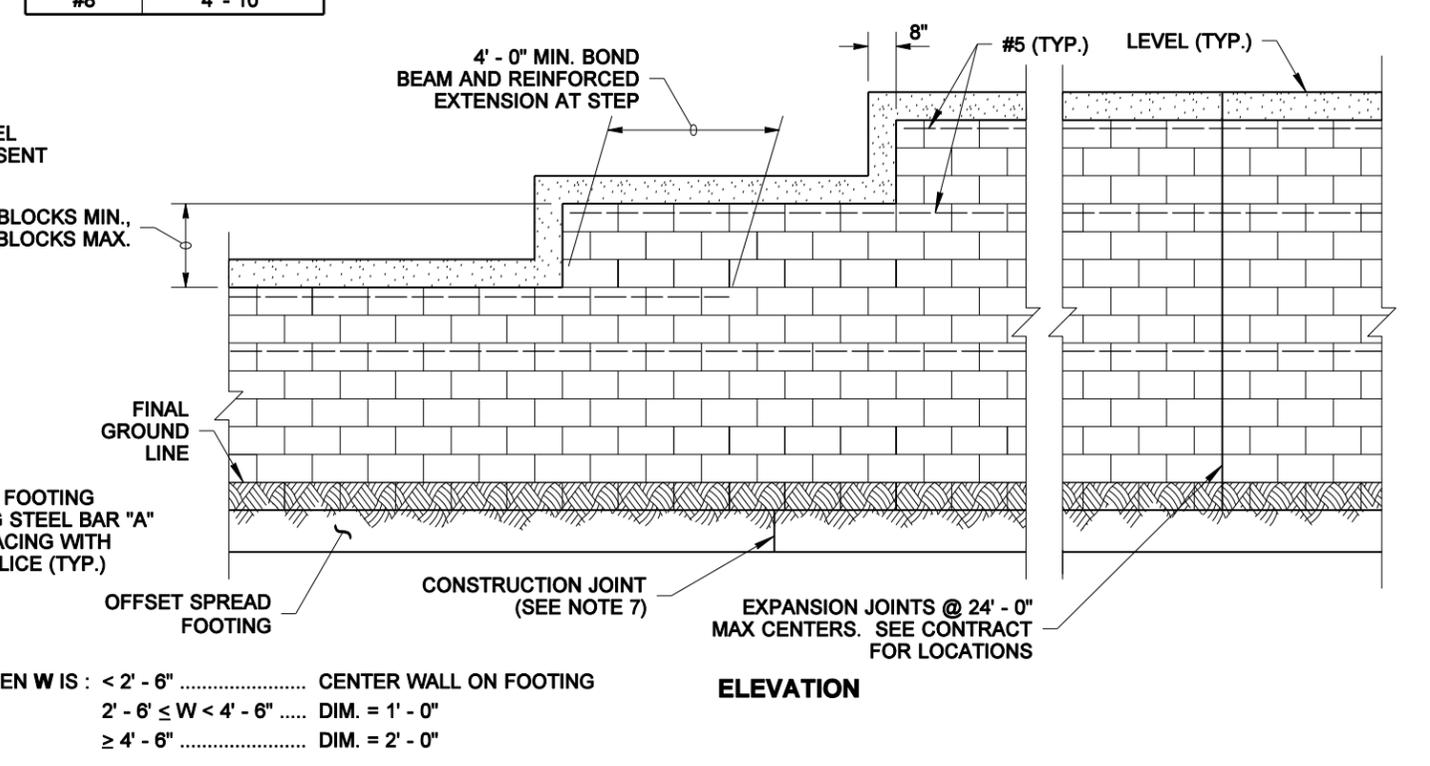
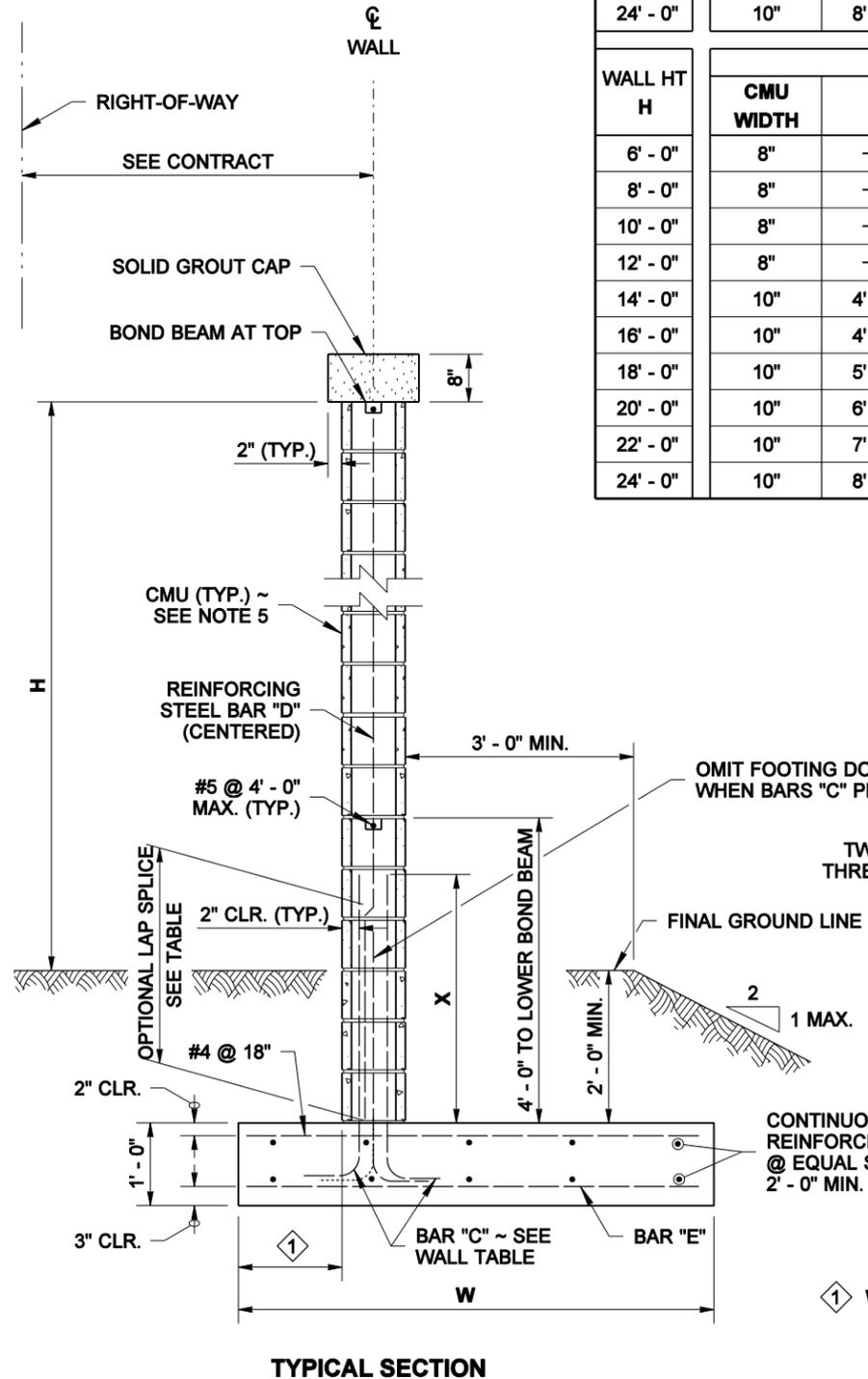
WALL HT H	TYPE 18A							WALL HT H	TYPE 18B						
	CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"		CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"
6' - 0"	8"	—	2' - 0"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	6' - 0"	8"	—	2' - 3"	3 ~ #4	—	#6 @ 48"	#4 @ 18"
8' - 0"	8"	—	2' - 3"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	8' - 0"	8"	—	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 @ 36"	#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 @ 16"	#4 @ 18"	16' - 0"	10"	5' - 4"	5' - 3"	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"	6' - 0"	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"	7' - 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"	7' - 9"	5 ~ #4	#7 @ 16"	#7 @ 16"	#4 @ 12"
24' - 0"	10"	8' - 0"	6' - 3"	5 ~ #4	#6 @ 16"	#6 @ 16"	#4 @ 18"	24' - 0"	10"	12' - 0"	8' - 6"	5 ~ #4	#8 @ 16"	#8 @ 16"	#4 @ 12"

WALL HT H	TYPE 18C							WALL HT H	TYPE 18D						
	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 @ 48"	#6 @ 32"	#4 @ 18"
14' - 0"	10"	4' - 0"	3' - 9"	5 ~ #4	—	#6 @ 16"	#4 @ 18"	14' - 0"	10"	4' - 8"	5' - 3"	5 ~ #4	#6 @ 32"	#6 @ 24"	#4 @ 18"
16' - 0"	10"	4' - 8"	4' - 3"	5 ~ #4	#6 @ 40"	#6 @ 40"	#4 @ 18"	16' - 0"	10"	5' - 4"	6' - 3"	5 ~ #4	#6 @ 24"	#7 @ 16"	#4 @ 18"
18' - 0"	10"	5' - 4"	5' - 0"	5 ~ #4	#6 @ 32"	#6 @ 32"	#4 @ 18"	18' - 0"	10"	7' - 4"	7' - 0"	5 ~ #4	#6 @ 16"	#7 @ 16"	#4 @ 18"
20' - 0"	10"	6' - 0"	5' - 9"	5 ~ #4	#6 @ 24"	#6 @ 24"	#4 @ 18"	20' - 0"	10"	9' - 8"	8' - 0"	5 ~ #4	#7 @ 16"	#8 @ 16"	#4 @ 12"
22' - 0"	10"	7' - 0"	6' - 6"	5 ~ #4	#6 @ 16"	#6 @ 16"	#4 @ 18"	22' - 0"	10"	12' - 0"	9' - 0"	5 ~ #4	#8 @ 16"	#8 @ 16"	#4 @ 12"
24' - 0"	10"	8' - 0"	7' - 6"	5 ~ #4	#7 @ 16"	#7 @ 16"	#4 @ 12"	24' - 0"	10"	15' - 0"	9' - 9"	6 ~ #4	#9 @ 16"	#8 @ 16"	#4 @ 12"

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

CMU = CONCRETE MASONRY UNIT



1 WHEN W IS : < 2' - 6" ..... CENTER WALL ON FOOTING  
 2' - 6" ≤ W < 4' - 6" ..... DIM. = 1' - 0"  
 ≥ 4' - 6" ..... DIM. = 2' - 0"

**NOTES**

1. Wall to be designated Noise Barrier Wall Type 18A, 18B, 18C or 18D. 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.

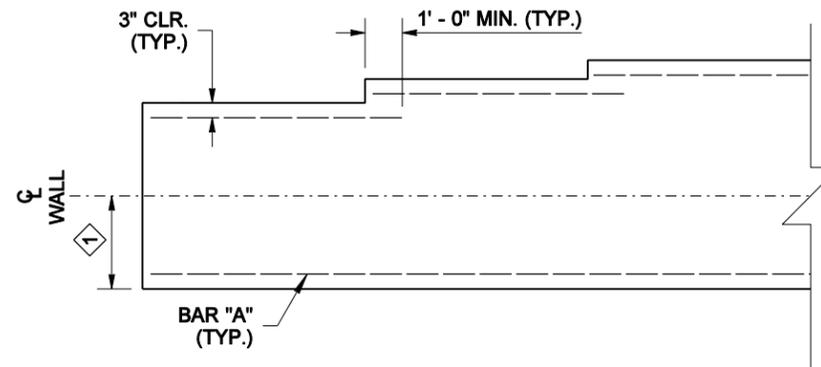
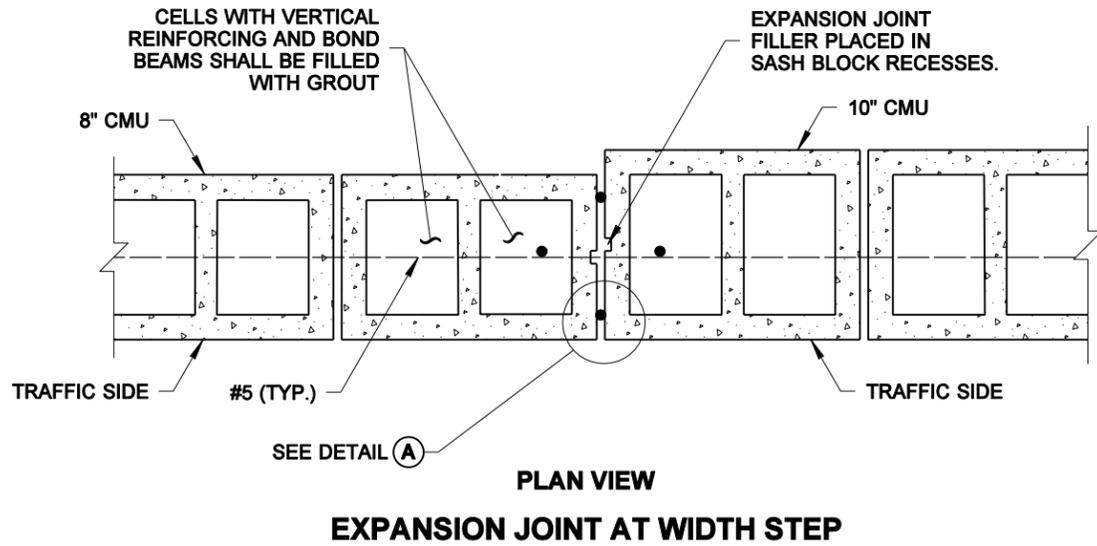
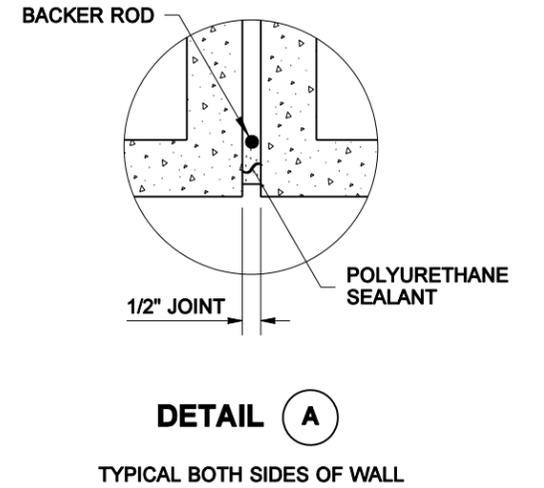
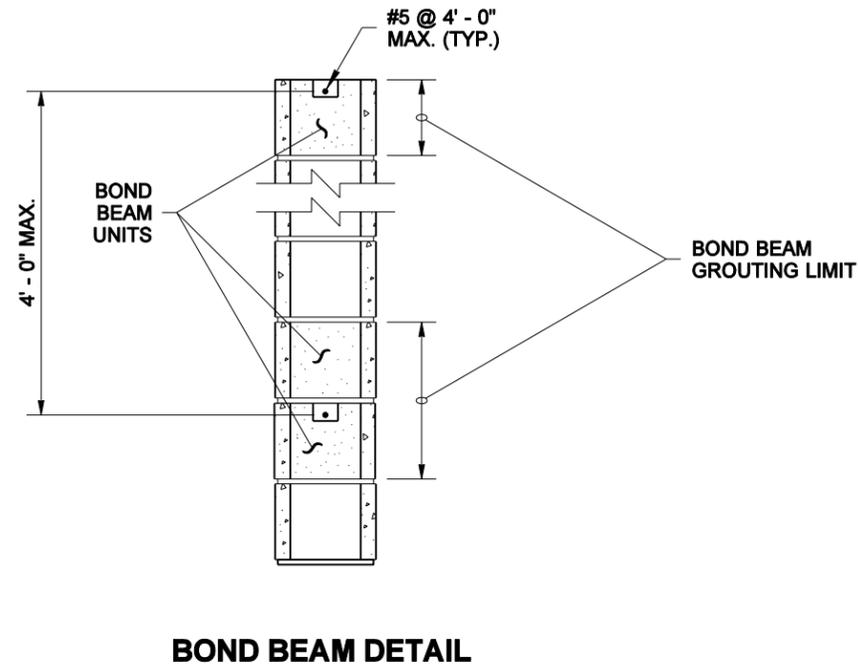
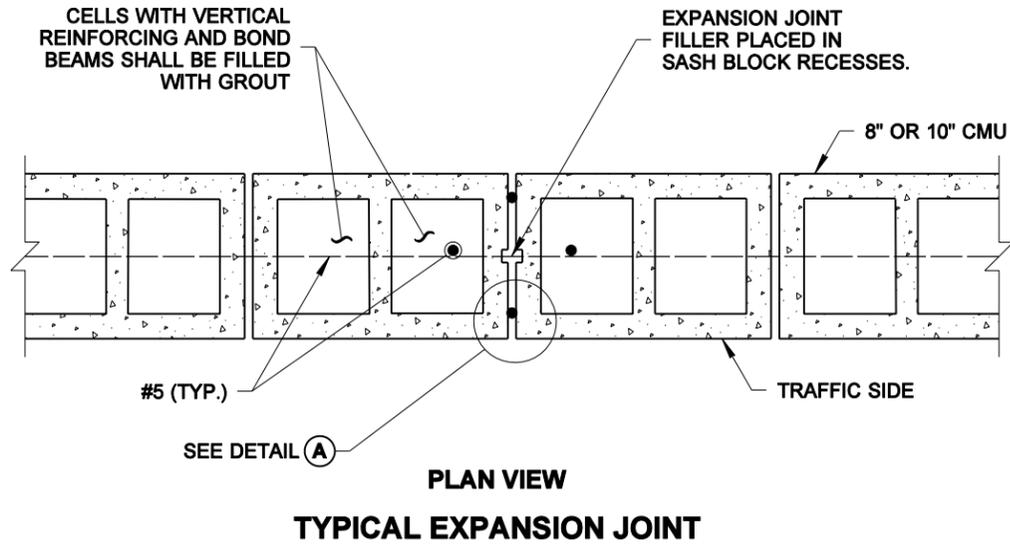
**MASONRY WALL ON OFFSET SPREAD FOOTING**



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**NOISE BARRIER WALL TYPE 18**  
**STANDARD PLAN D-2.64-01**

SHEET 1 OF 2 SHEETS  
 APPROVED FOR PUBLICATION  
**Pasco Bakotich III** 01-06-09  
 STATE DESIGN ENGINEER DATE  
 Washington State Department of Transportation



**MASONRY WALL ON  
OFFSET SPREAD FOOTING**



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**NOISE BARRIER WALL  
TYPE 18**

**STANDARD PLAN D-2.64-01**

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

**Pasco Bakotich III** 01-06-09

STATE DESIGN ENGINEER

DATE



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