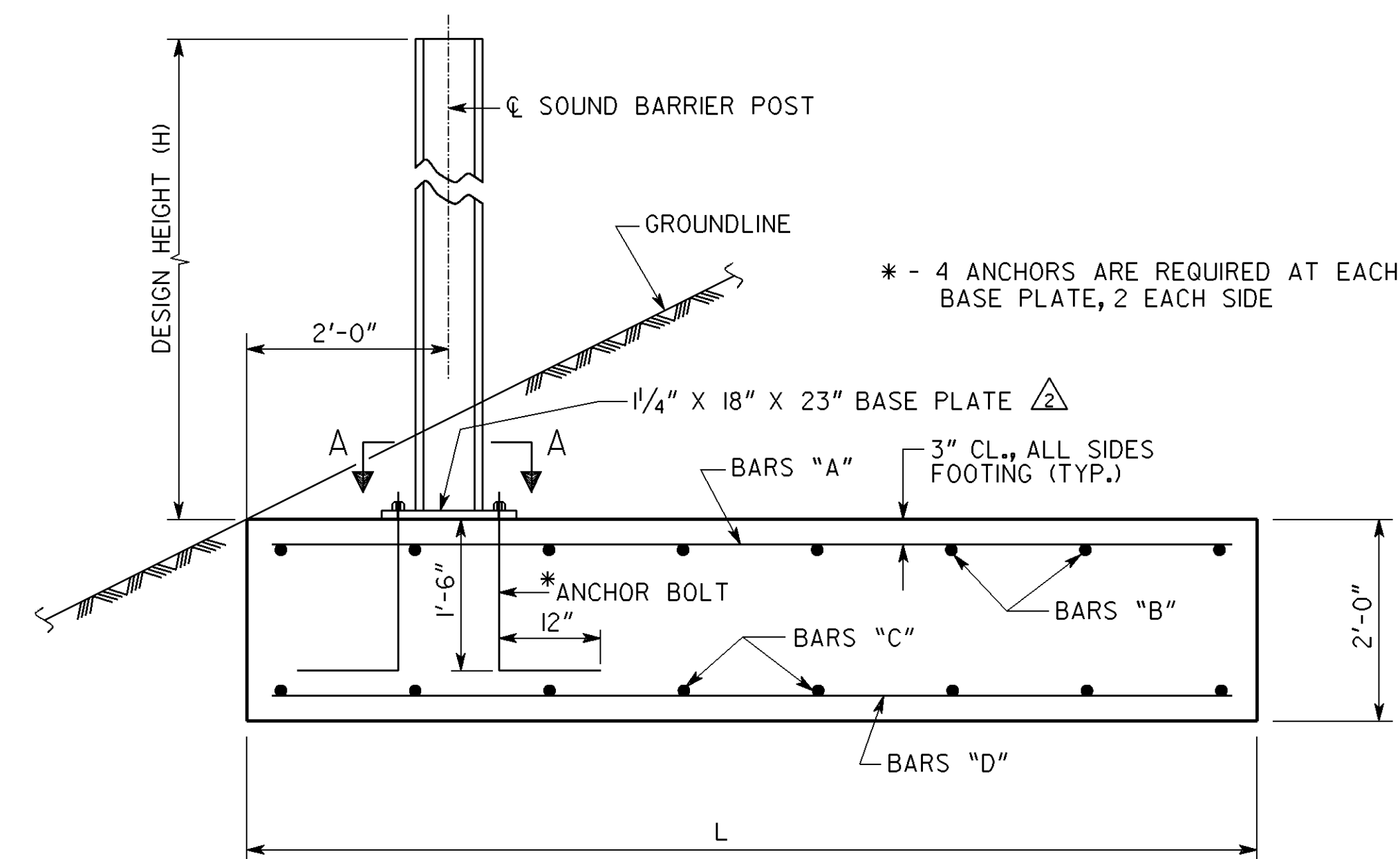


PLAN

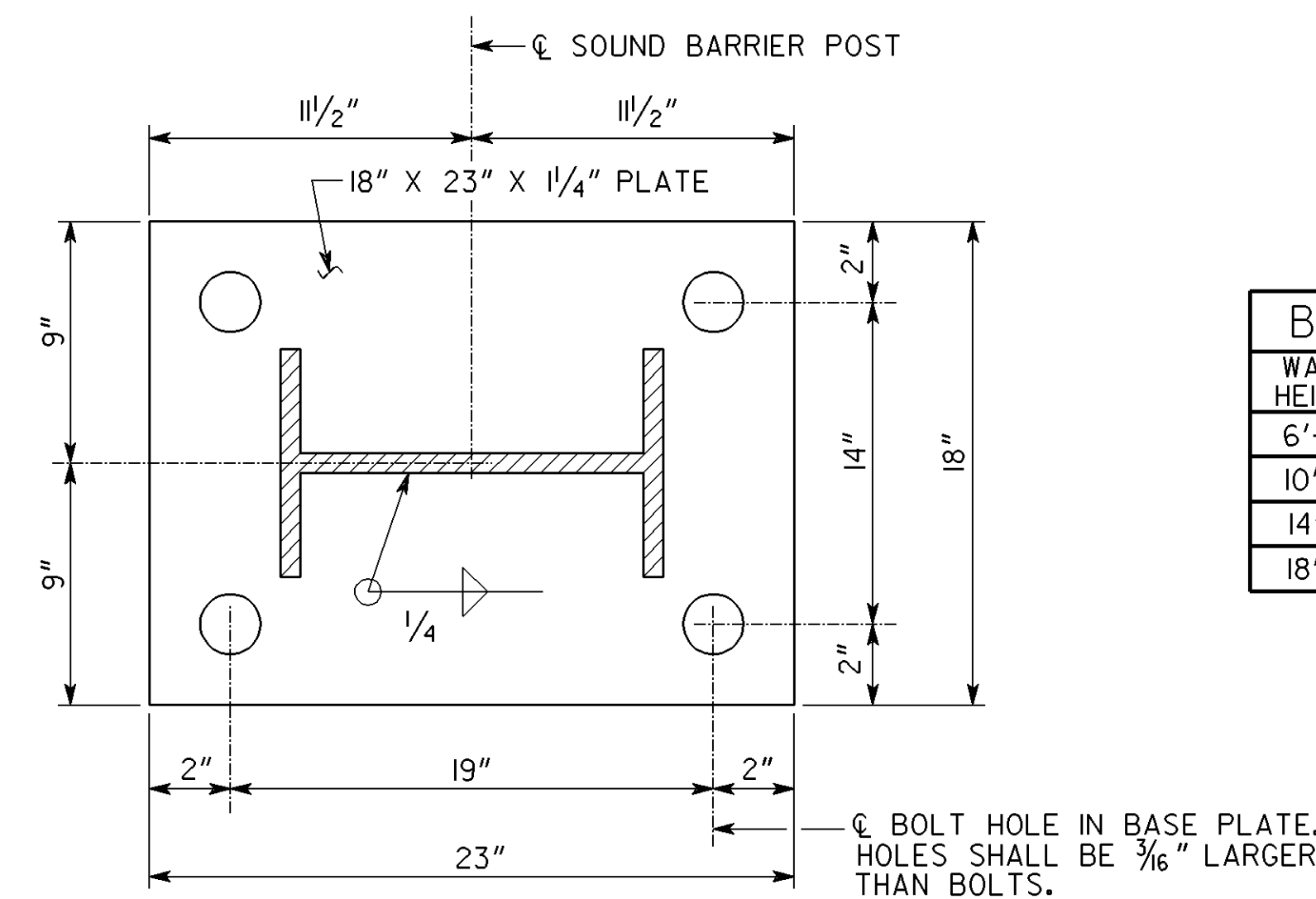


ELEVATION

NOTES

1. SPREAD FOOTING ALTERNATE SHALL BE USED ONLY WHEN THE DRILLED SHAFT FOUNDATION IS NOT FEASIBLE DUE TO SHALLOW ROCK.
2. SPREAD FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING CAPACITY OF 1.5 TONS PER SQ. FT.
3. ANCHOR BOLTS SHALL BE A-449 WITH WASHERS AND HEX NUTS.
4. ALL NUTS, BOLTS, WASHERS, PLATES AND HARDWARE REQUIRED FOR CONSTRUCTING SOUND BARRIERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM-153. THREADS FOR NUTS SHALL BE UNC CLASS 2B, THREADS FOR BOLTS AND THREADED RODS SHALL BE UNC CLASS 2A. WASHERS SHALL BE COMPATIBLE WITH NUTS AND BOLTS.
5. COST FOR CONCRETE, REINFORCING, EXCAVATION, BACKFILL, ANCHOR BOLTS AND OTHER MATERIALS NECESSARY FOR INSTALLATION SHALL BE INCLUDED IN PRICE BID FOR SOUND BARRIER WALL.
6. THE POST SIZE SHALL BE AS SHOWN ON THE POST SUMMARY TABLE ON THE STANDARD SOUND BARRIER FOUNDATION AND POST DETAIL SHEET. THE WALL MOUNTED POST SIZE SHALL BE USED.
7. DESIGN DATA: CONCRETE ----- CLASS A, $f'_c = 3000$ PSI
REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60000$ PSI

8. MAXIMUM POST SPACING ALLOWED IS 10 FEET.



BOLT SIZE	
WALL HEIGHT	BOLT DIAMETER
6'-10'	3/4"
10'-14'	1"
14'-18'	1 1/4"
18'-24'	1 1/2"

SECTION A-A
NO SCALE

** - FOR INFORMATION ONLY

TABLE OF LETTERED BARS AND DIMENSIONS										** QUANTITIES		
DESIGN HEIGHT (H)	L	W	BARS "A"		BARS "B"		BARS "C"		BARS "D"		CONCRETE (CU. YDS.)	REINF. STEEL (LBS.)
			NO. REQ'D.	BAR SIZE	NO. REQ'D.	BAR SIZE	NO. REQ'D.	BAR SIZE	NO. REQ'D.	BAR SIZE		
10'	7'-6"	3'-2"	4	#6	7	#4	7	#4	4	#6	1.8	113
12'	8'-0"	3'-2"	4	#6	7	#4	7	#4	4	#6	1.9	119
14'	9'-0"	3'-2"	4	#6	7	#4	7	#4	4	#6	2.1	131
16'	10'-0"	3'-2"	5	#6	8	#4	8	#4	5	#6	2.4	175
18'	10'-9"	3'-2"	6	#6	8	#4	8	#4	6	#6	2.5	218
20'	11'-0"	3'-8"	8	#6	8	#4	8	#4	8	#6	3.0	292
22'	12'-0"	3'-8"	4	#8	9	#4	9	#4	4	#8	3.3	289
24'	12'-9"	3'-8"	4	#8	9	#4	9	#4	4	#8	3.5	342

3-23-09	5-27-04	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION	ADDED MAX. SPACING NOTE	REVISION	CONSTRUCTION DETAIL SPREAD FOOTING ALTERNATE FOR SOUND BARRIER WALL	
SCALE	3/4"=1'-0" (UNLESS NOTED)			
DESIGNED	JPT/SWW	REVIEWED	JPT/MCD	NUMBER N-3
DRAWN	WMC	APPROVED	PVL	
CHECKED	SWW			
DESIGN GROUP	SWW			