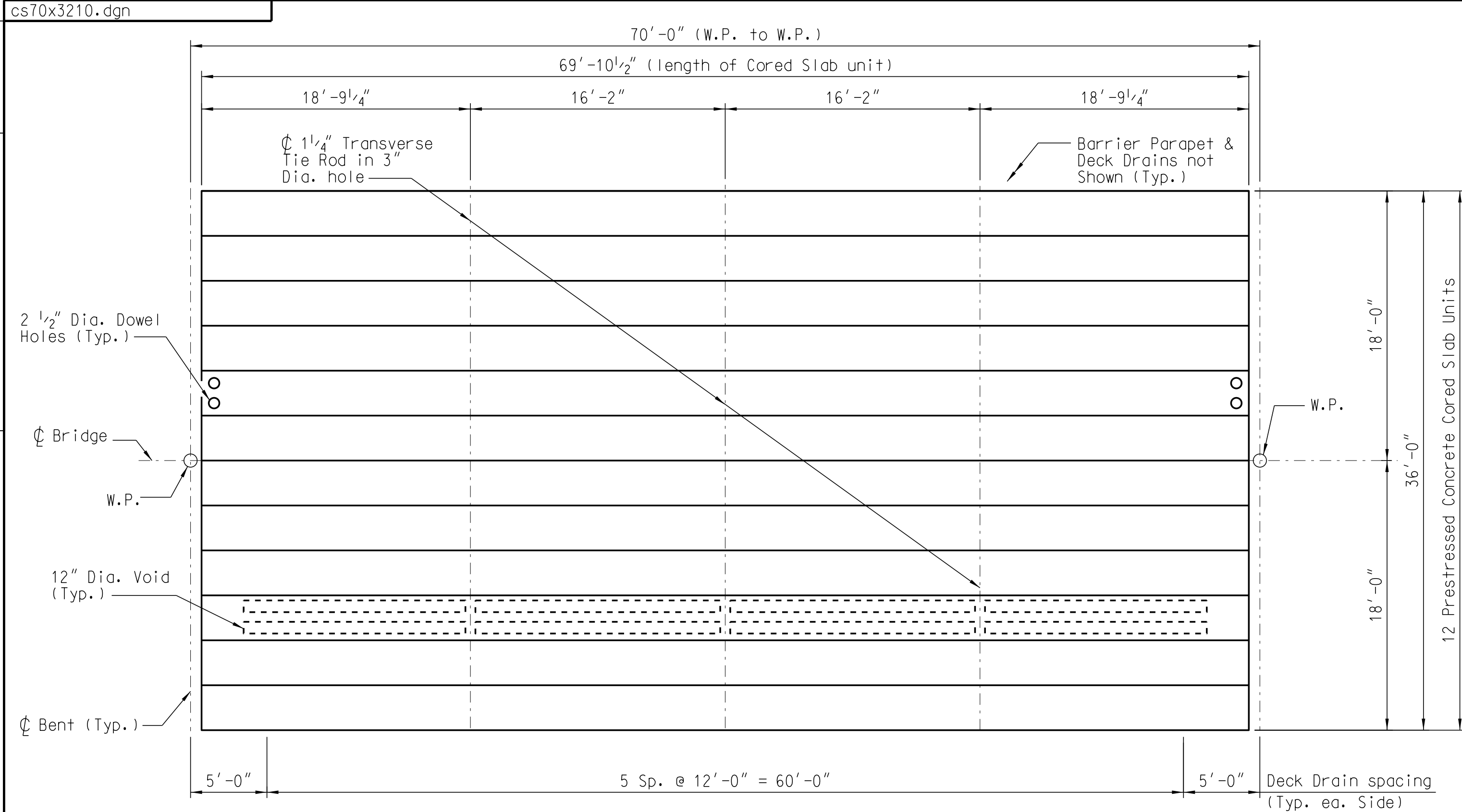
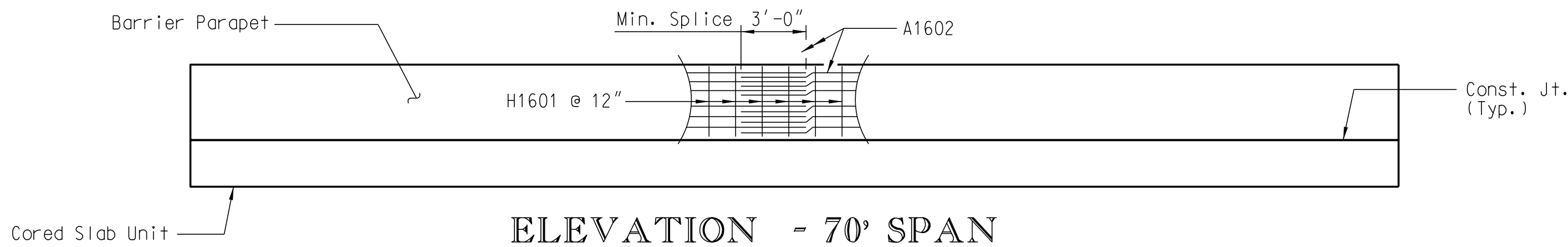


STRAND DATA (0.6" Dia. Low Relaxation Grade 270)	cs70x3210.dgn	
	Area	0.217 in ²
	Tensioning Load	43.9 kips



PLAN - 70' SPAN



ELEVATION - 70' SPAN

(Note: GB1601 bars in slab not shown for clarity.)

Note to Designer:

Use of barrier parapet transition or vertical railing wall will require additional design and detailing by the User's Engineer.

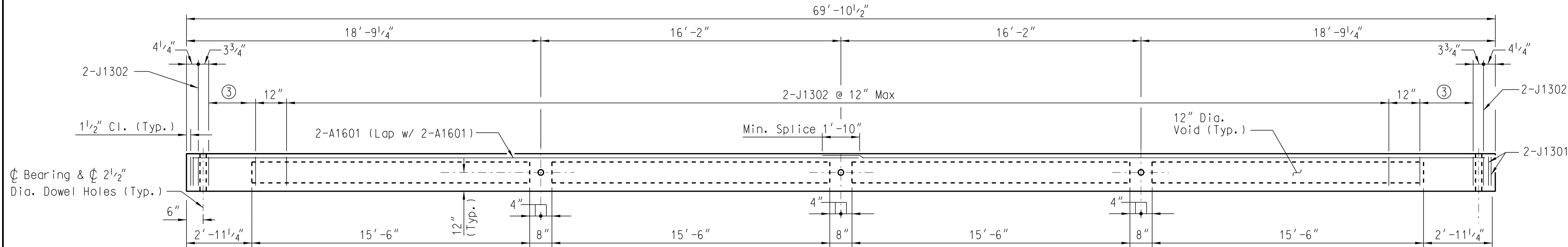
Due to the camber of the slab units, modifications to the design and detailing by the User's Engineer may be required to maintain the required finished grade profile.

This drawing furnished for information only. All dimensions shown are sheet specific. Any use of this design and drawing, including dimensions, must be checked by the User's Engineer to ensure design is adequate for the intended use. All drawings must be signed and sealed by a South Carolina Registered Professional Engineer when used.

Notes:

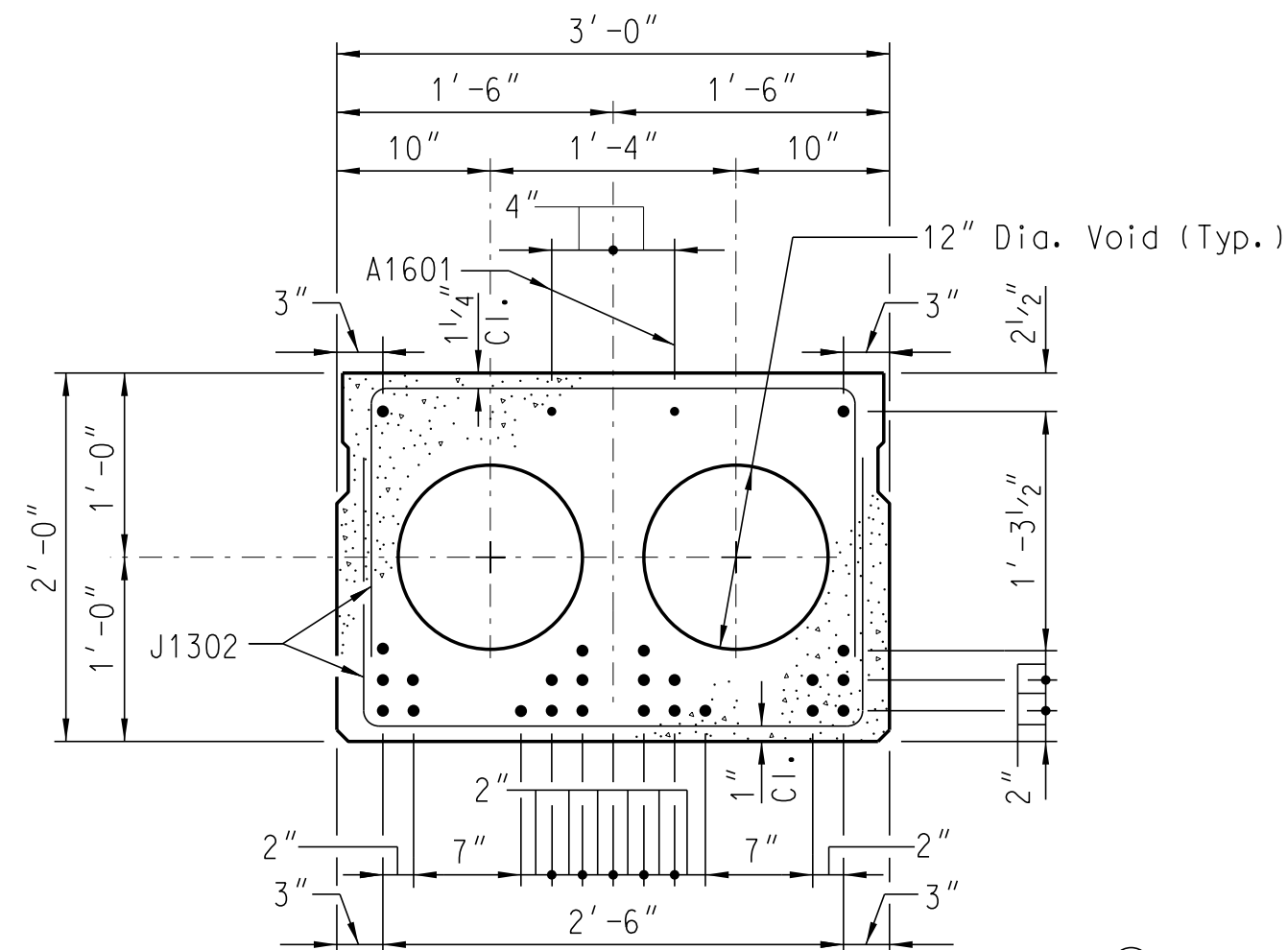
Shift J1302 stirrups as necessary to clear transverse tie rods.

J1303 and J1601 bars not shown for clarity.



TYPICAL ELEVATION - 70' CORED SLAB UNIT

③ 2-J1302 @ 6" = 2'-6"



INTERIOR SLAB SECTION

24 - 0.6" Dia. L.R. Strand Layout

f'c = 8.0 ksi
f'ci = 6.4 ksi

② For Exterior Slab Section details see Sh. XX.

DEAD LOAD DEFLECTION & CAMBER

Camber at Erection (Slab alone in place)	2 ⁷ / ₁₆ " ↓
Deflection due to Barrier Parapet and Asphalt Wearing Surface	1 ¹ / ₂ " ↓
Final Camber	1 ⁵ / ₁₆ " ↑

BILL OF MATERIAL ONE 70' CORED SLAB UNIT						
MARK	TOTAL REQ'D.	DIMENSION				LENGTH
A1601	4	35'-9"	—	—	—	35'-9"
GB1601	71	①	—	—	—	5'-3"
J1301	8	1'-9"	1'-7"	—	—	4'-11"
J1302	154	2'-8"	1'-7"	—	—	5'-10"
J1303	4	1'-8 ¹ / ₂ "	2'-8"	—	—	7'-1"
J1601	8	2'-7"	6"	—	—	3'-7"
QUANTITIES						
ITEM		UNIT	INTERIOR	EXTERIOR		
Reinforcing Steel		LB	824	1213		
Concrete, Class 8000		CY	11.8	11.9		
0.6" Dia. L.R. Strands		LF	1677	1677		

① GB1601 bars required for exterior units only.
For dimensions of GB1601 bar, see sheet titled "Reinforcing Bending Details".

BILL OF MATERIAL ONE 70' BARRIER PARAPET						
MARK	TOTAL REQ'D.	"a"	"b"	"c"	"d"	LENGTH
A1601	14	36'-4"	—	—	—	36'-4"
H1601	71	2'-4"	2'-4"	7 ³ / ₈ "	—	5'-2"
QUANTITIES						
ITEM		UNIT	TOTAL			
Reinforcing Steel		LB	913			
Length of Barrier Parapet		LF	70.0			

ESTIMATED QUANTITIES - ONE 70' SPAN

ITEM	UNIT	TOTAL
3'-0" x 2'-0" Cored Slab	LF	838.5
Elastomeric Bearing	EA	24
Reinforcing Steel for Structures (Bridge)	LB	1826
Concrete Bridge Barrier Parapet	LF	140.0

W.P. - Work Point
For additional notes and details, see Sh. XX & XX.

REV.				SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION			
REV.	JXY	SAN	3-14	New Border			
REV.	MRW	SAN	11-10	Plan & Notes			
REVIEWED				70'-0" PRESTRESSED CONC. CORED SLAB SPAN (3'-0" x 2'-0")			
QUAN.	MRW	SAN	5-08				
DR.	MRW	SAN	5-08				
DES.	MRW	SAN	5-08				
BY	CHK.	DATE		COUNTY XXXXXXX		ROUTE XXXXXX	