

STRAND DATA	
(1/2" Dia. Low Relaxation Grade 270)	
Area	0.153 in ²
Tensioning Load	31.0 kips

cs60x3210.DGN		
	BRIDGE PLANS ID	SHEET NO.
	XXXXXXXX-BXX	XX

DEAD LOAD DEFLECTION & CAMBER	
Camber at Erection (Slab alone in place)	$1\frac{1}{16}" \uparrow$
Deflection due to Barrier Parapet and Asphalt Wearing Surface	$5\frac{1}{16}" \downarrow$
Final Camber	$1\frac{1}{8}" \uparrow$

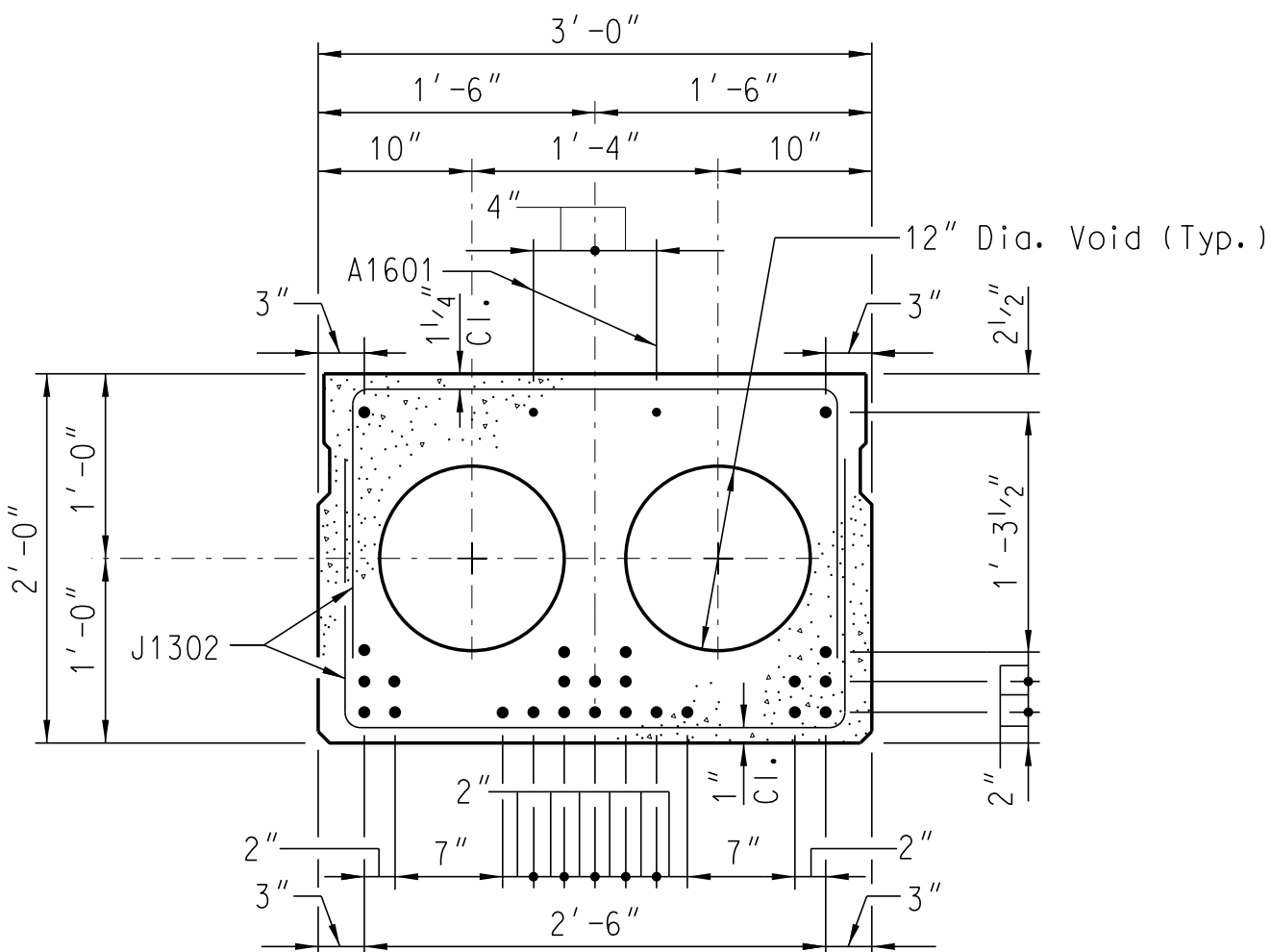
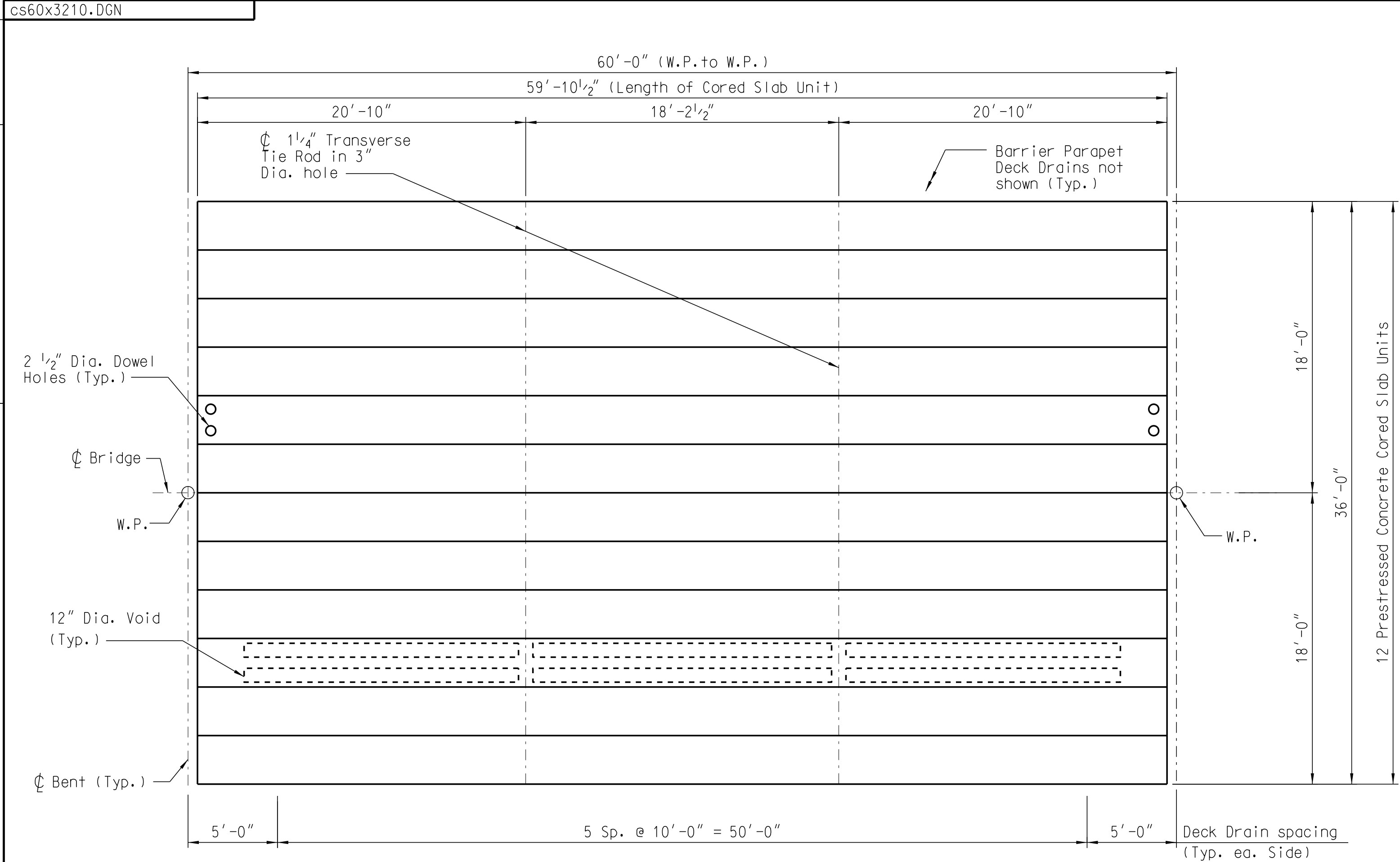
For Information Only – Paid for as Cored Slab	BILL OF MATERIAL						
	ONE 60' CORED SLAB UNIT						
	MARK	TOTAL REQ'D.	DIMENSION				LENGTH
			"a"	"b"	"c"	"d"	
	A1601	4	30'-9"	—	—	—	30'-9"
	GB1601	61	①	—	—	—	5'-3"
	J1301	8	1'-9"	1'-7"	—	—	4'-11"
	J1302	134	2'-8"	1'-7"	—	—	5'-10"
	J1303	4	1'-8½"	2'-8"	—	—	7'-1"
	J1601	8	2'-7"	6"	—	—	3'-7"
QUANTITIES							
ITEM		UNIT	INTERIOR	EXTERIOR			
Reinforcing Steel		LB	726	1060			
Concrete, Class 6000		CY	10.1	10.2			
½" Dia. L.R. Strands		LF	1437	1437			

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

BILL OF MATERIAL						
ONE 60' BARRIER PARAPET						
MARK	TOTAL REQ'D.					LENGTH
		"a"	"b"	"c"	"d"	
A1601	7	59'-6"	—	—	—	59'-6"
H1601	61	2'-4"	2'-4"	7 ³ / ₈ "	—	5'-2"
QUANTITIES						
ITEM					UNIT	TOTAL
Reinforcing Steel					LB	763
Length of Barrier Parapet					LF	60.0

ESTIMATED QUANTITIES - ONE 60' SPAN		
ITEM	UNIT	TOTAL
3'-0" x 2'-0" Cored Slab	LF	718.5
Elastomeric Bearing	EA	24
Reinforcing Steel for Structures (Bridge)	LB	1526
Concrete Bridge Barrier Parapet	LF	120.0

REV.				SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
REV.	JXY	SAN	3-14	
	New Border			60'-0" PRESTRESSED CONC. CORED SLAB SPAN (3'-0" x 2'-0")
REV.	MRW	SAN	1-10	
	Plan & Notes			
REVIEWED				
QUAN.	MRW	SAN	5-08	
DR.	MRW	SAN	5-08	
DES.	MRW	SAN	5-08	
BY	CHK.	DATE		COUNTY XXXXXXXX
				ROUTE XXXXXX



INTERIOR SLAB SECTION⁽²⁾

24-1/2" Dia. L.R. Strand Layout

$$\begin{aligned} f'_c &= 6.0 \text{ ksi} \\ f'_{ci} &= 4.8 \text{ ksi} \end{aligned}$$

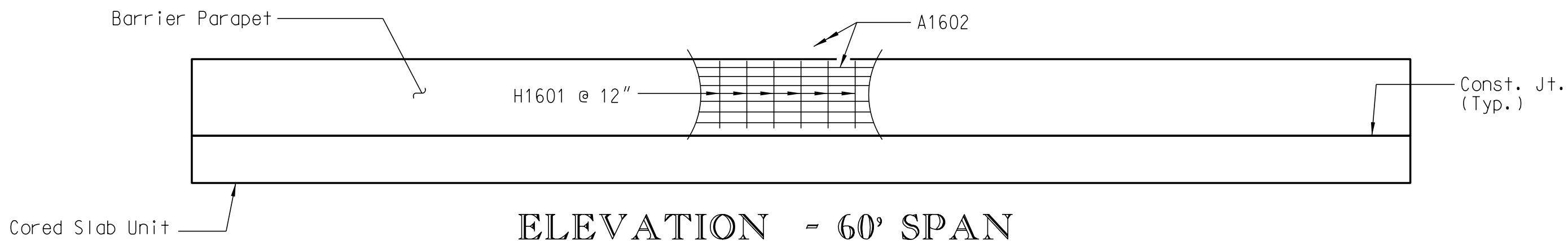
② For Exterior Slab Section details see Sh. XX.

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.



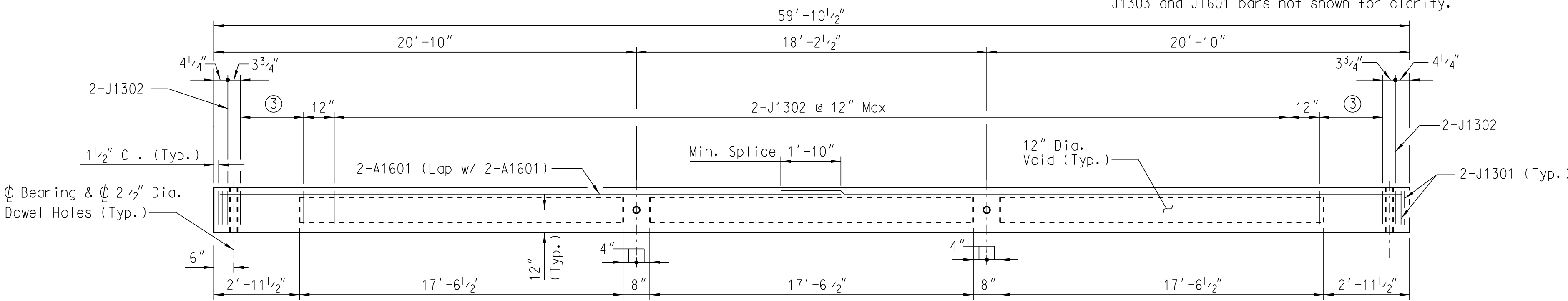
ELEVATION - 60' SPAN

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

Notes:

Shift J1302 stirrups as necessary to clear transverse tie rods.

J1303 and J1601 bars not shown for clarity.



TYPICAL ELEVATION - 60' CORED SLAB UNIT

③ 2-J1302 @ 6" = 2'-6"