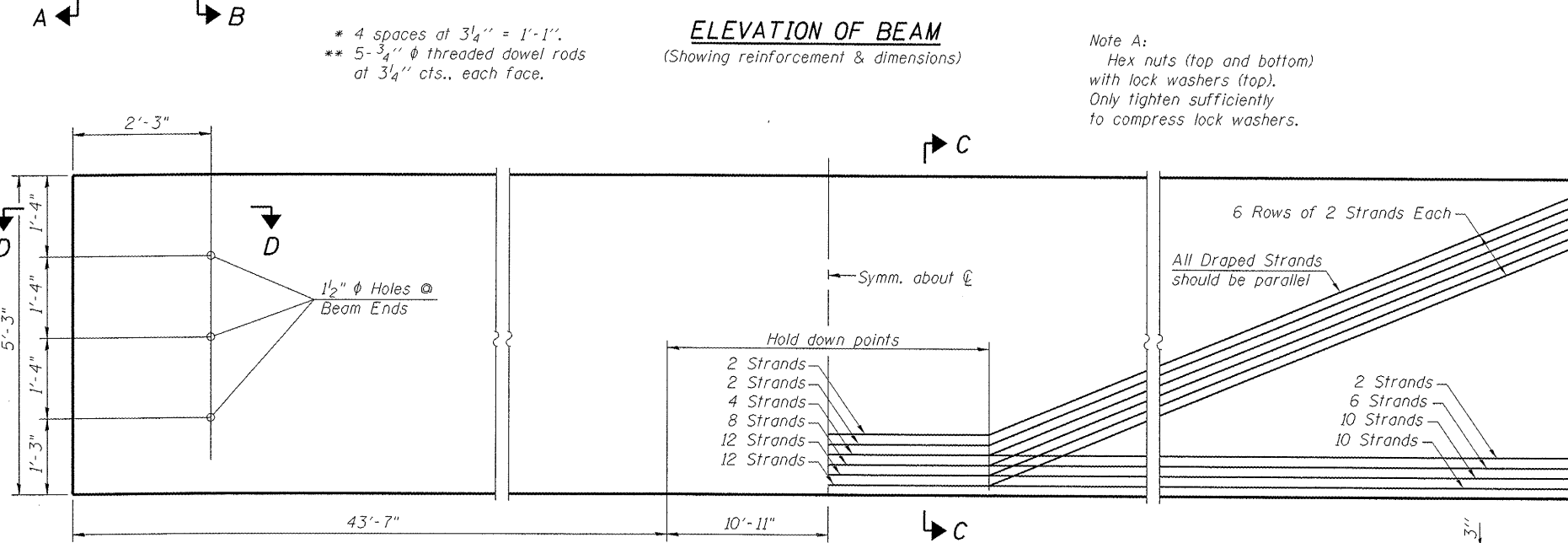


ELEVATION OF BEAM
(Showing reinforcement & dimensions)

* 4 spaces at 3/4" = 1'-1".
** 5-3/4" φ threaded dowel rods at 3/4" cts., each face.

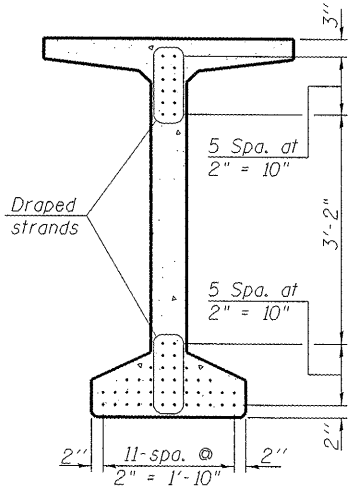
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



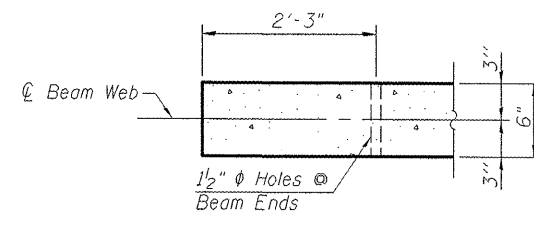
ELEVATION OF BEAM
(Showing prestressing steel)

I : Non-composite moment of inertia of beam section (in^4).
 I' : Composite moment of inertia of beam section (in^4).
 S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in^3).
 S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in^3).
 S_t : Non-composite section modulus for the top fiber of the prestressed beam (in^3).
 S_t' : Composite section modulus for the top fiber of the prestressed beam (in^3).
 $DC1$: Un-factored non-composite dead load (kips/ft.).
 M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).

$DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).



SECTION C-C



SECTION D-D

INTERIOR BEAM MOMENT TABLE

		0.5 Span
I	(in^4)	392,638
I'	(in^4)	715,759
S_b	(in^3)	12,224
S_b'	(in^3)	15,899
S_t	(in^3)	12,715
S_t'	(in^3)	39,810
$DC1$	(k/ft)	1.535
M_{DC1}	(k)	2133.1
$DC2$	(k/ft)	0.038
M_{DC2}	(k)	53.7
DW	(k/ft)	0.30
M_{DW}	(k)	429.3
$M_L + IM$	(k)	1727.5

INTERIOR BEAM REACTION TABLE

		Abut.
R_{DC1}	(k)	82.1
R_{DC2}	(k)	2.0
R_{DW}	(k)	16.0
$R_L + IM$	(k)	84.1
R_{Total}	(k)	184.2

EXTERIOR BEAM MOMENT TABLE

		0.5 Span
I	(in^4)	392,638
I'	(in^4)	704,486
S_b	(in^3)	12,224
S_b'	(in^3)	15,806
S_t	(in^3)	12,715
S_t'	(in^3)	38,225
$DC1$	(k/ft)	1.626
M_{DC1}	(k)	2264.3
$DC2$	(k/ft)	0.038
M_{DC2}	(k)	53.7
DW	(k/ft)	0.30
M_{DW}	(k)	429.3
$M_L + IM$	(k)	2366.1

EXTERIOR BEAM REACTION TABLE

		Abut.
R_{DC1}	(k)	86.9
R_{DC2}	(k)	2.0
R_{DW}	(k)	16.0
$R_L + IM$	(k)	92.7
R_{Total}	(k)	197.6

*****BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G_1	184	#4	11'-11"	\cap
G_2	16	#4	10'-2"	\cap
G_3	18	#6	38'-0"	\cap
G_4	56	#3	4'-11"	\cap
G_5	146	#5	3'-4"	\cap

***For information only

Notes:
See sheet 15 of 23 for additional details and Bill of Material.
Required release strength, f'_{ci} , shall be 6000 psi.