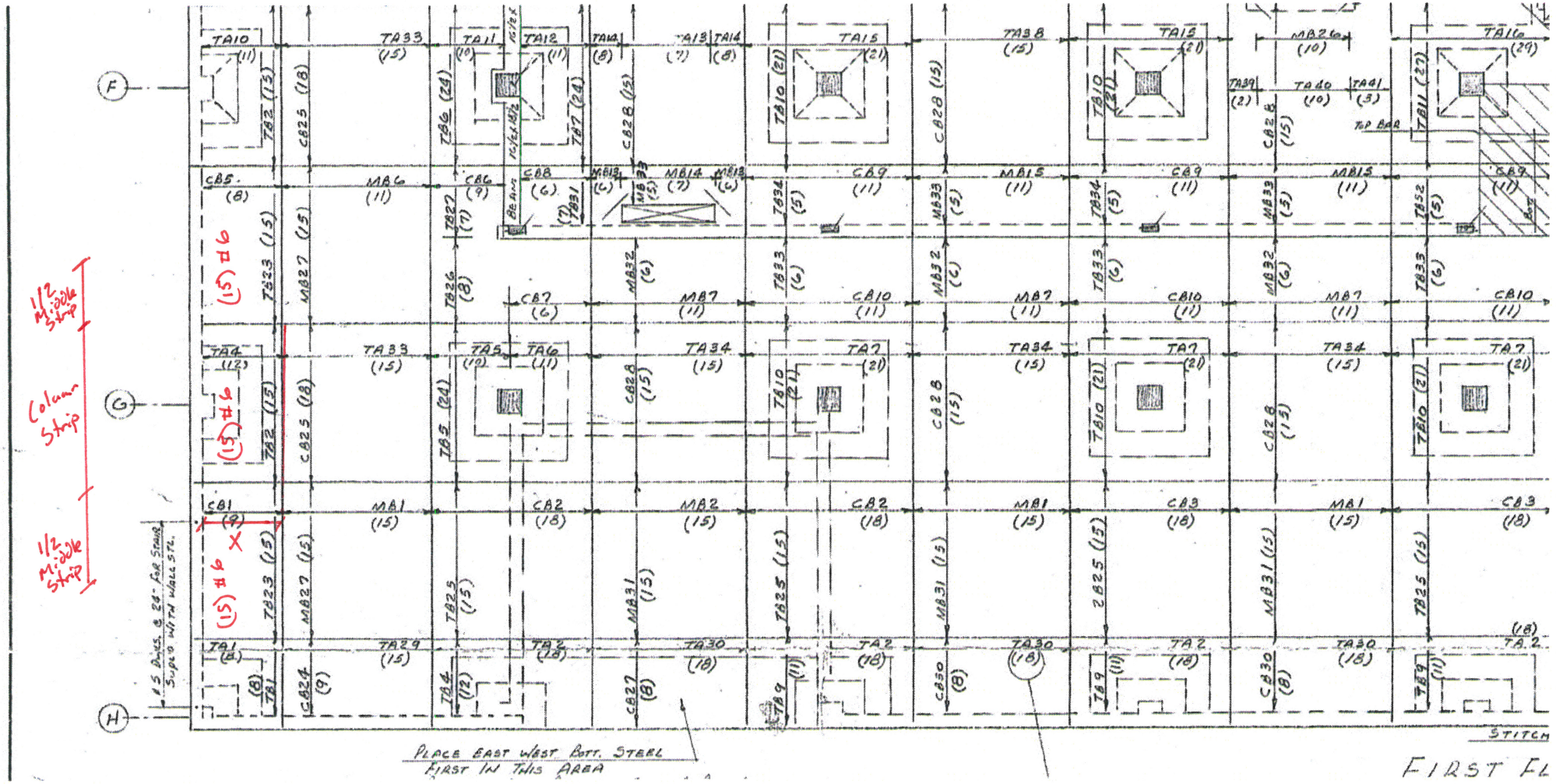
Equivalent Frame Method

- Multiple violations of DDM so EFM was chosen

1) How much moment distributes to middle strip when slab is poured integral w/wall?

2) Is the critical location of the middle strip the same as the column strip?



Critical Location @ Face of Drop

X = 1/2 Drop = 5'-10"/2 = 2'-11" = 35"

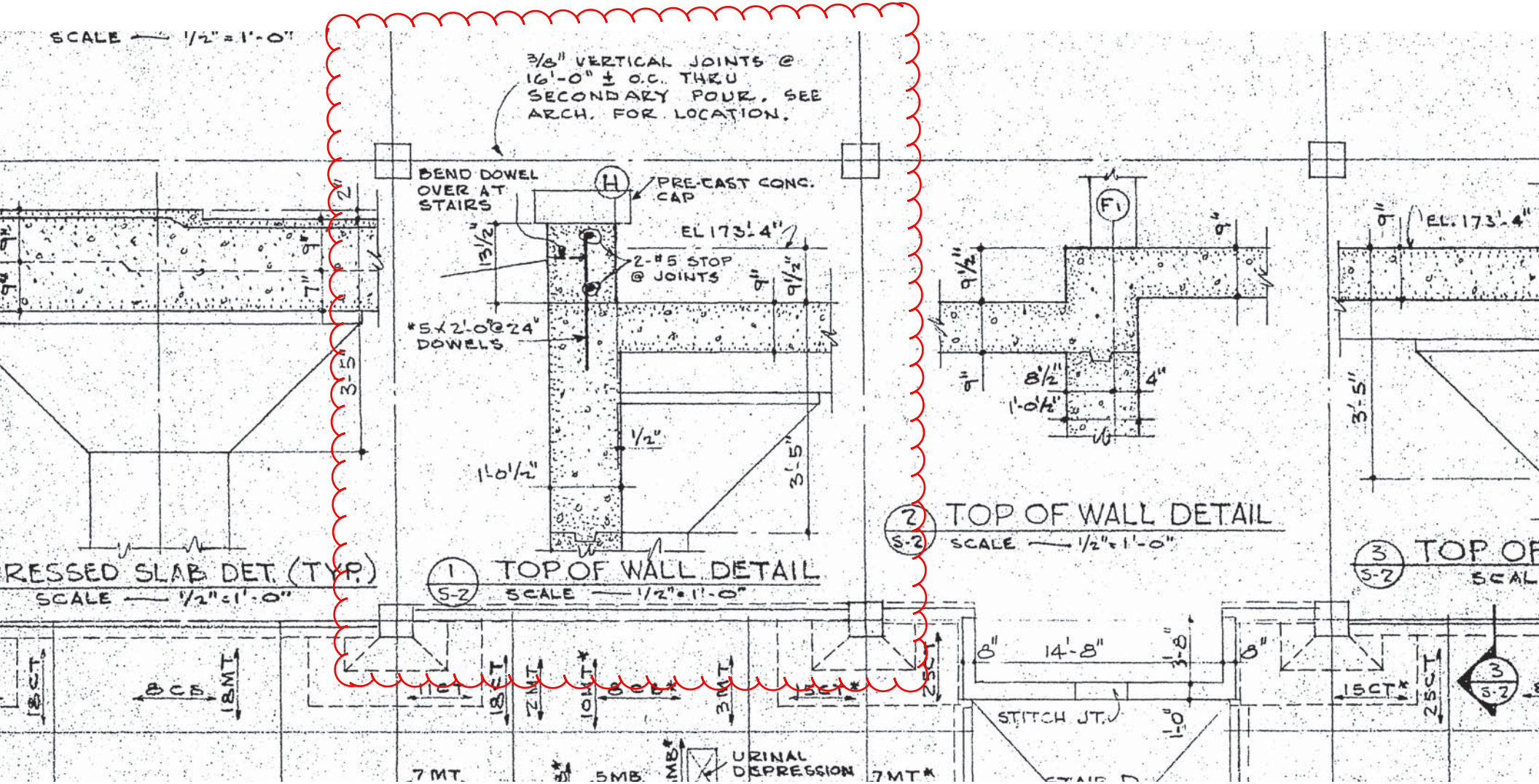

SCALE — 1/2" = 1'-0"
3/8" VERTICAL JOINTS @ 16'-0" ± O.C. THRU SECONDARY POUR. SEE ARCH. FOR LOCATION.
BEND DOWEL OVER AT STAIRS
H
PRE-CAST CONC. CAP
EL 173'-4"
2-#5 STOP @ JOINTS
*5 X 2'-0" @ 24" DOWELS
13 1/2"
9"
9 1/2"
1/2"
1'-0 1/2"
3'-5"
F1
8 1/2"
4"
1'-0 1/2"
RESSED SLAB DET. (TYP.)
SCALE — 1/2" = 1'-0"
1 S-2 TOP OF WALL DETAIL
SCALE — 1/2" = 1'-0"
2 S-2 TOP OF WALL DETAIL
SCALE — 1/2" = 1'-0"
3 S-2 TOP OF
SCAL
8CT
8CB
18MT
11CT
18MT
7MT
10MT*
8CB*
3MT
15CT*
25CT
8"
14'-8"
3'-8"
8"
STITCH JT.
1'-0"
15CT*
25CT
3 S-2
7MT
5MB
MB*
URINAL DEPRESSION
7MT*

TABLE NO. 26-G—DISTRIBUTION BETWEEN COLUMN STRIPS AND MIDDLE STRIPS IN PER CENT OF TOTAL MOMENTS AT CRITICAL SECTIONS OF A PANEL

STRIP		MOMENT SECTION			
		NEGATIVE MOMENT AT INTERIOR SUPPORT	POSITIVE MOMENT	NEGATIVE MOMENT AT EXTERIOR SUPPORT	
				SLAB SUPPORTED ON COLUMNS AND ON BEAMS OF TOTAL DEPTH EQUAL TO THE SLAB THICKNESS[1]	SLAB SUPPORTED ON REINFORCED CONCRETE BEARING WALL OR COLUMNS WITH BEAMS OF TOTAL DEPTH EQUAL OR GREATER THAN 3 TIMES THE SLAB THICKNESS[1]
Column strip		76	60	80	60
Middle strip		24	40	20	40
Half column strip adjacent and parallel to marginal beam or wall	Total depth of beam equal to slab thickness[1]	38	30	40	30
	Total depth of beam or wall equal to or greater than 3 times slab thickness[1]	19	15	20	15

[1]Interpolate for intermediate ratios of beam depth to slab thickness.

Note: The total dead and live reaction of a panel adjacent to a marginal beam or wall may be divided between the beam or wall and the parallel half column strip in proportion to their stiffness, but the moment provided in the slab shall not be less than that given in Table No. 26-G.