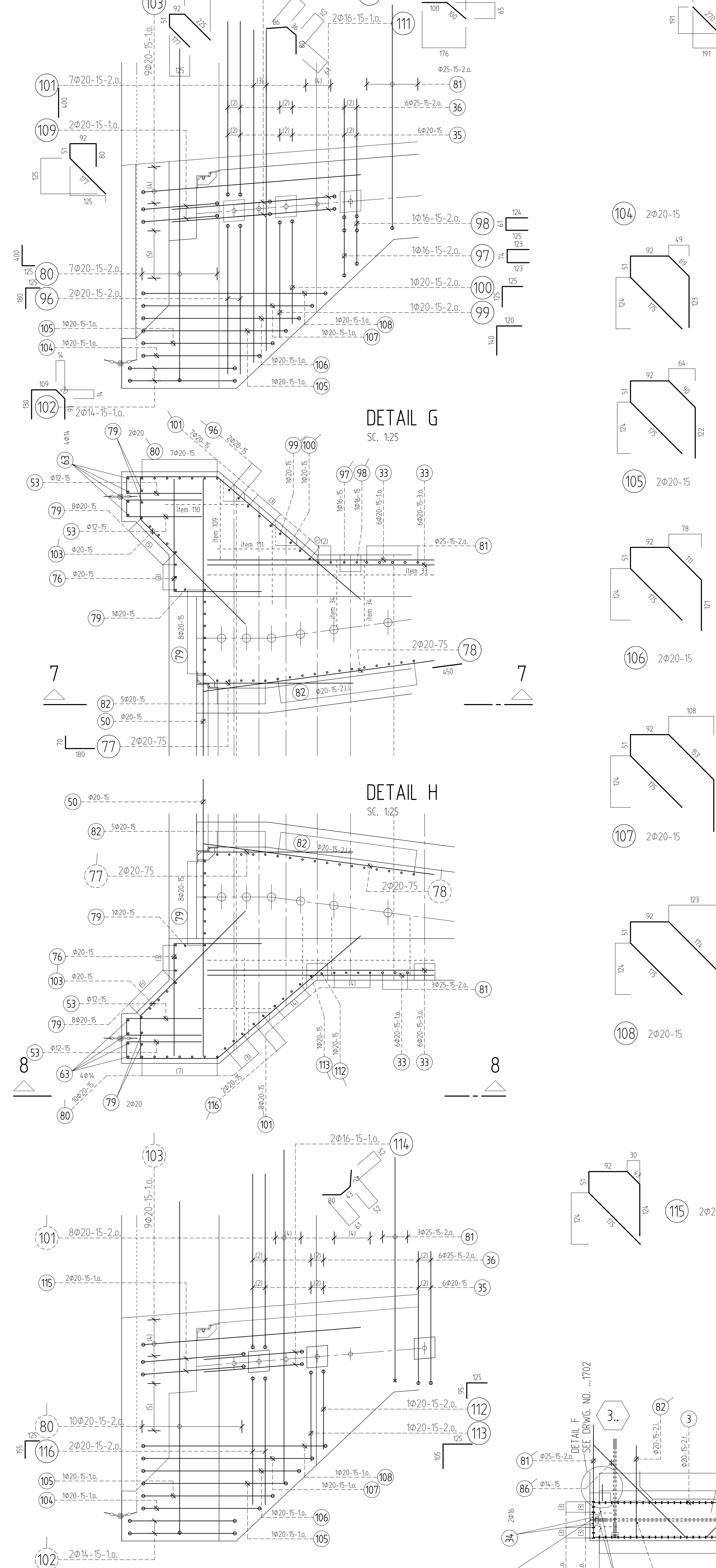


SECTION 7-7

SC. 1:25



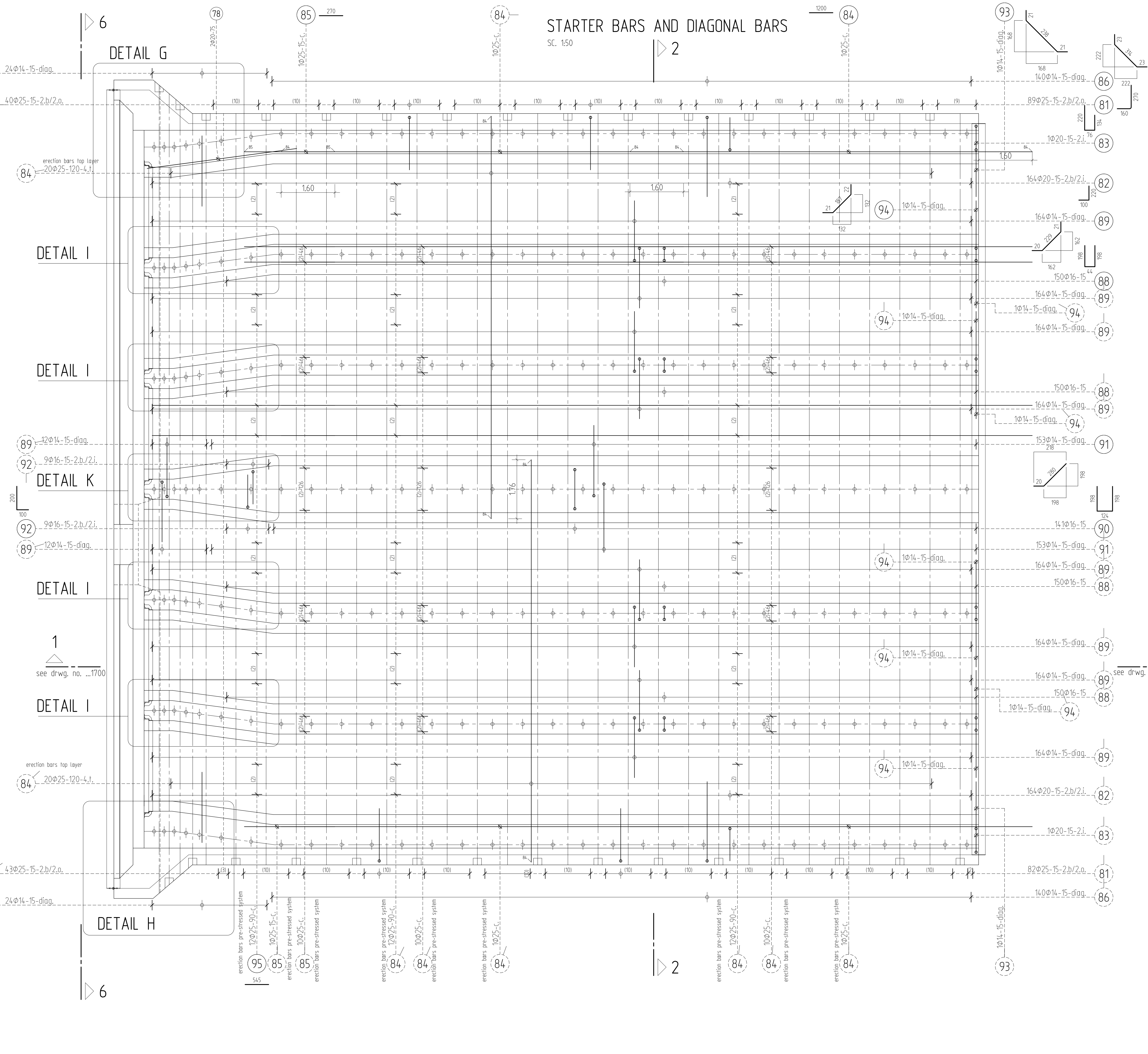
SECTION 8-8

SC. 1:25



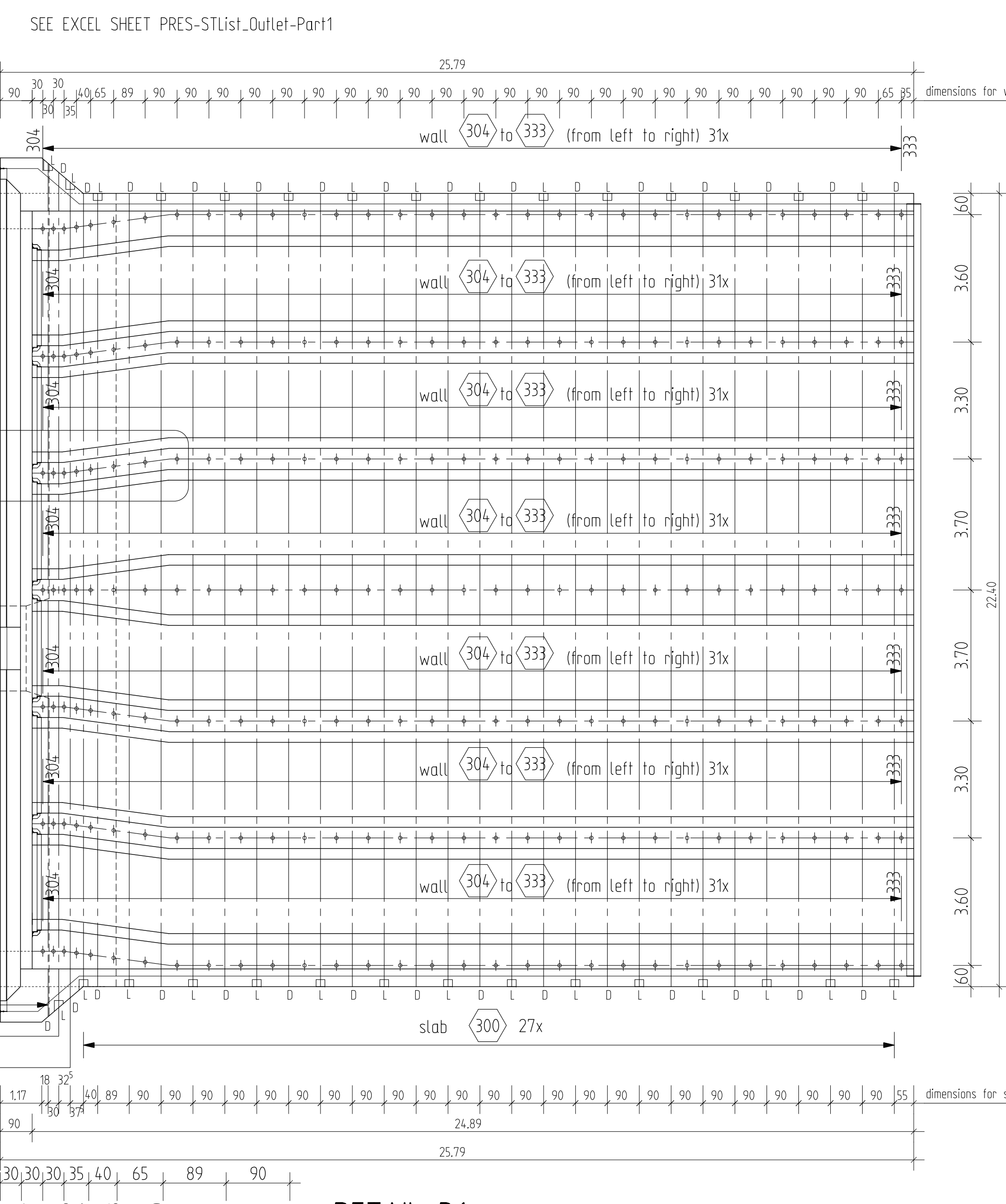
STARTER BARS AND DIAGONAL BARS

SC. 1:50



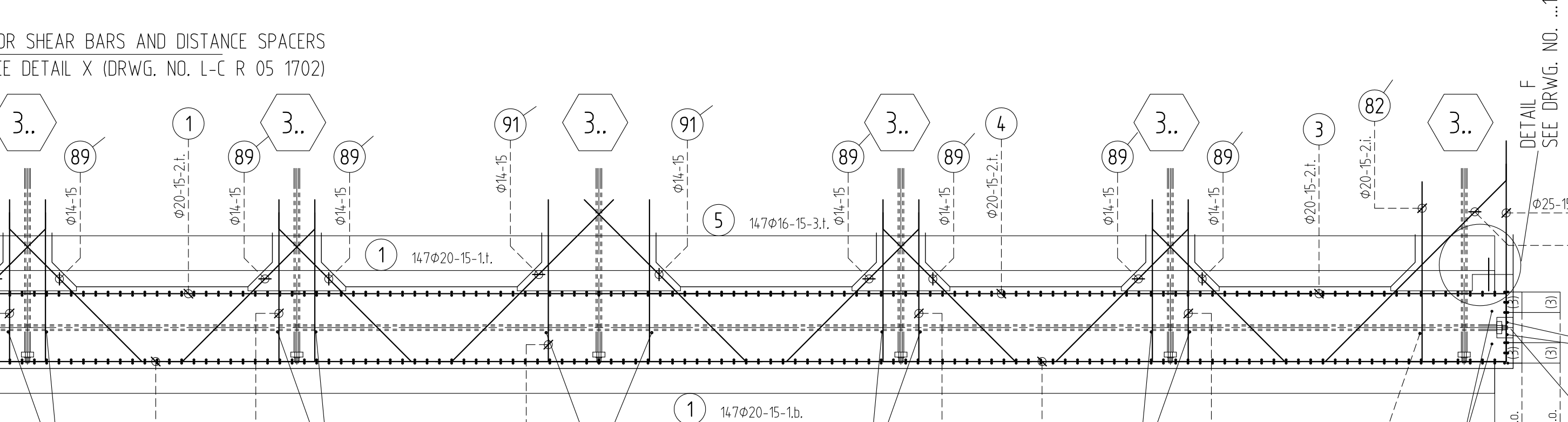
PRE-STRESSING SYSTEM - PLAN VIEW

SC. 1:100



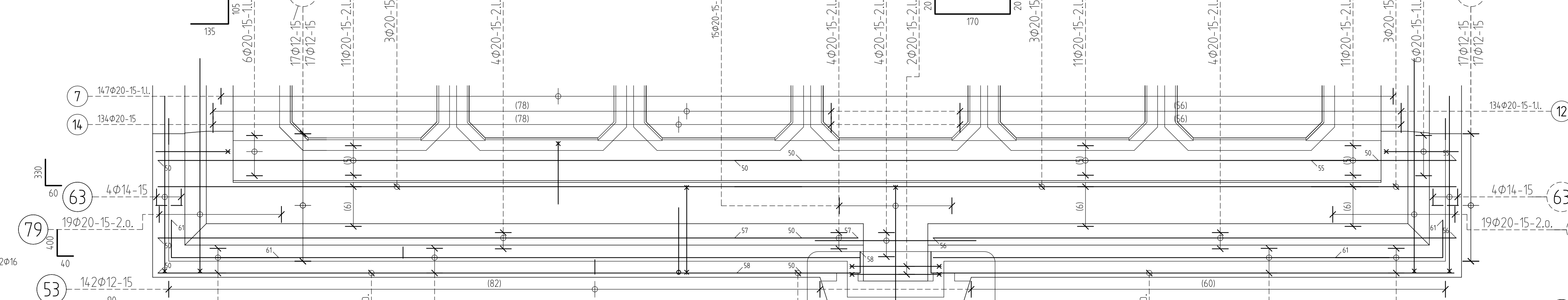
SECTION 2-2

SC. 1:50



SECTION 6-6

SC. 1:50



STRUCTURAL COMPONENT	CLASS OF CONCRETE	GRADE OF REINFORCEMENT	CONCRETE COVER nom c.
FOUNDATION	SW 30/25	GRADE 40/60	6.0

BENDING DIMENSIONS GIVEN ON DRAWINGS ARE OUTSIDE TO OUTSIDE MEASUREMENTS

BENDING SCHEDULE	13 SHEET (S1)	MESH SCHEDULE	1 SHEET (S2)
LAST BAR MARK	115	LAST MESH MARK	1

MINIMUM DIAMETER OF BENDING FORMER TO BE USED TO DRAW 400. SHEET 1, TABLE 1 AND DN 104.5, 7.08, 100.0, 15

Diameter of bar	L-Hooks Loops	Concrete cover at right angles to the plane of curvature	Bar-up and other curved bars e.g. frame corner	Inner layers of bent-up and other curved bars or more than one layer
< 20	4x	+50mm	15%	22.5%
20-28	7x	+50mm	20%	30%

SPACERS: ACCORDING TO DBV-NOTES "SPACERS"(FOR TYPE) AND "CONCRETE COVER"(TAB.4 FOR ARRANGEMENT)

**MATERIALS**

NORMAL CLASS OF CONCRETE: SEE TABLE RIGHT HAND

NORMAL CLASS OF STEEL: STEEL BAR GRADE 40/60 WIRE MESH:

PRESTRESSED STEEL: ACC. TO EGYPTIAN STANDARD ES 240/88

**CLASSES OF CONCRETE**

CLASS	DESCRIPTION	WALL THICKNESS	CONCRETE STRENGTH	WALL AREA
M20/25	MASSIVE ELEMENTS IN CONTACT WITH WATER	<= 150	20	25
M25/30	MASSIVE ELEMENTS NOT IN CONTACT WITH WATER	<= 150	25	30
M30/35	STRUCTURAL ELEMENTS IN CONTACT WITH WATER	<= 150	30	35
M35/40	STRUCTURAL ELEMENTS NOT IN CONTACT WITH WATER	<= 150	35	40

PRESTRESSED STEEL: ACC. TO EGYPTIAN STANDARD ES 240/88

EMBARCASSER (COMPRESSIVE STRENGTH AFTER 90 DAYS, EXCEPT CLASS M20/25 FOR THIS CLASS AFTER 28 DAYS)

**MINIMUM OVERLAPPING AND ANCHORING LENGTH:**  
(ONLY VALID IF NONE DETAIL INFORMATIONS ARE GIVEN ON THE DRAWING LOCALLY)

**SPLICE LENGTH OF REBARS**

GENERAL	50	55	65	100	115	125	140	160	180
TOP LAYER	70	85	100	150	170	190	210	240	270

ANCHORING LENGTH OF REBARS

GENERAL	30	35	40	45	50	60	65	75	80
TOP LAYER	60	70	80	95	105	115	130	145	160

LEGEND:  
c= CENTER  
1= TOP  
b= BOTTOM  
i= INSIDE  
o= OUTSIDE  
1L= FIRST LAYER  
2L= SECOND LAYER  
3L= THIRD LAYER  
4L= FOURTH LAYER

BENDING SCHEDULE FOR ONE UNIT ONLY!



**REFERENCE DRAWINGS**

- L-C 05 1000 CONCRETE STEP 1 - PART 1, FOUND. SLAB PLAN & SECTIONS
- L-C 05 1001 CONCRETE STEP 1 - PART 1, FOUND. SLAB DETAILS & SECTIONS
- L-G 03 0001 GENERAL NOTES

**COMPLEMENTARY DRAWINGS**

- L-C R 05 1700 CONCRETE STEP 1 - PART 1, FOUND. SLAB TOP & BOTTOM LAYER
- L-C R 05 1702 CONCRETE STEP 1 - PART 1, FOUND. SLAB SHEAR BARS AND DETAILS

