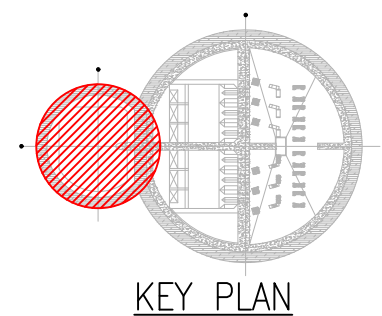


BASE SLAB BOTTOM LAYER (B1&B2) LAYOUT @ RL - 33.16M
SCALE: 1:100

MATCHLINE - A REFER DRAWING NO ST-03



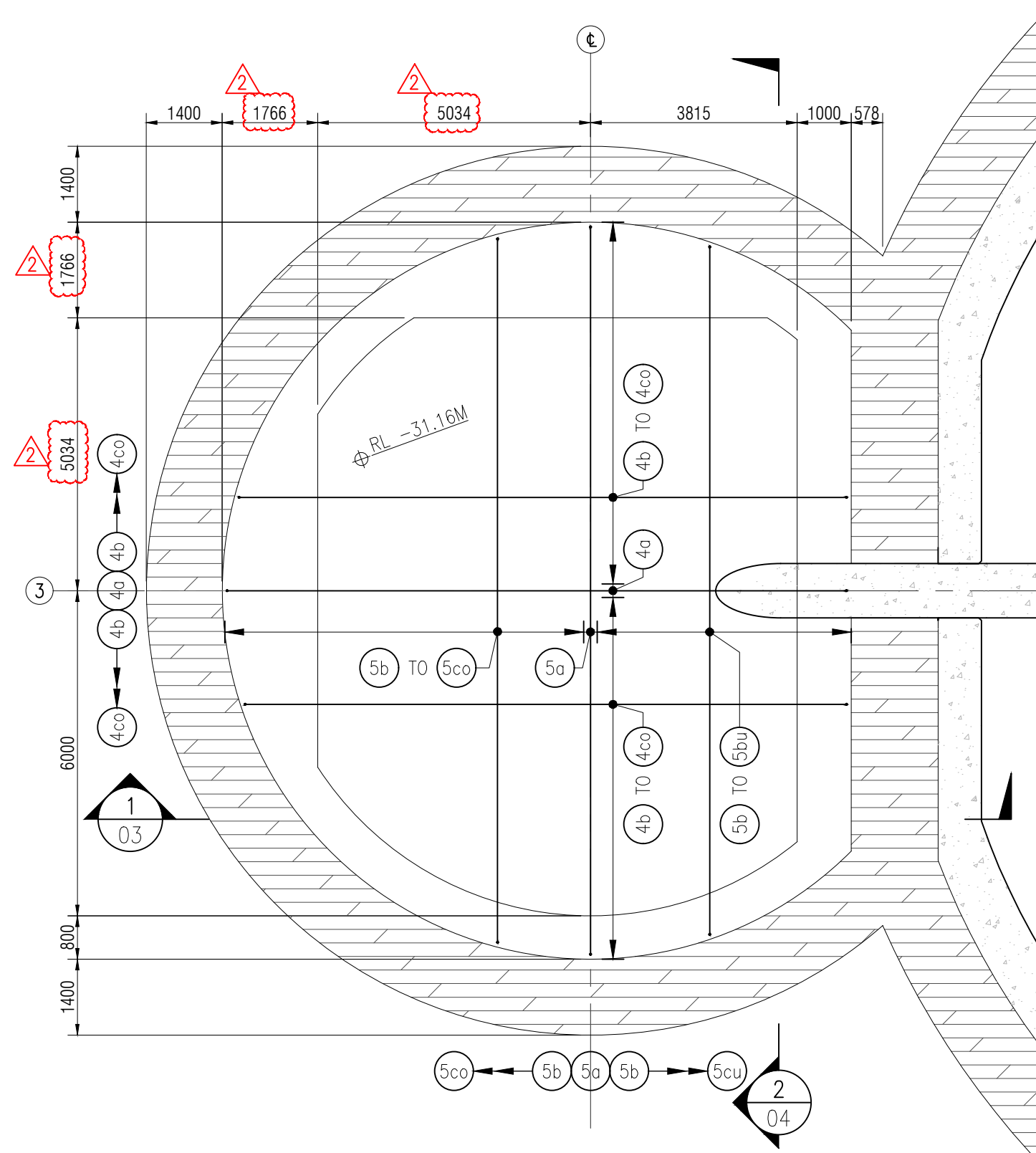
Rev.	Date	Revision Details	By	Ver.	App.
3	01/10/2020	REVISED AS PER COMMENTS	-	-	-
2	14/08/2020	REVISED AS PER COMMENTS	-	-	-
1	07/08/2020	REVISED AS PER COMMENTS	-	-	-
0	04/08/2020	ISSUED FOR APPROVAL	-	-	-



Project Director:	-	Initials:		Date:	
Designed:	-				
Design Review:	-				
Drawn:	JT				
Drafting Check:	RV				

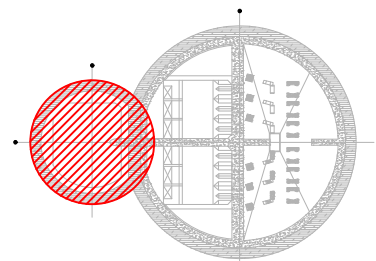
Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	INLET CHAMBER SHAFT BASE SLAB TOP & BOTTOM LAYER LAYOUT @ RL -31.16M AND RL -33.16M (SHEET 01 OF 05)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-01
Rev.	3



BASE SLAB TOP LAYER (T1&T2) LAYOUT @ RL - 31.16M
SCALE: 1:100

MATCHLINE - B REFER DRAWING NO ST-03



KEY PLAN

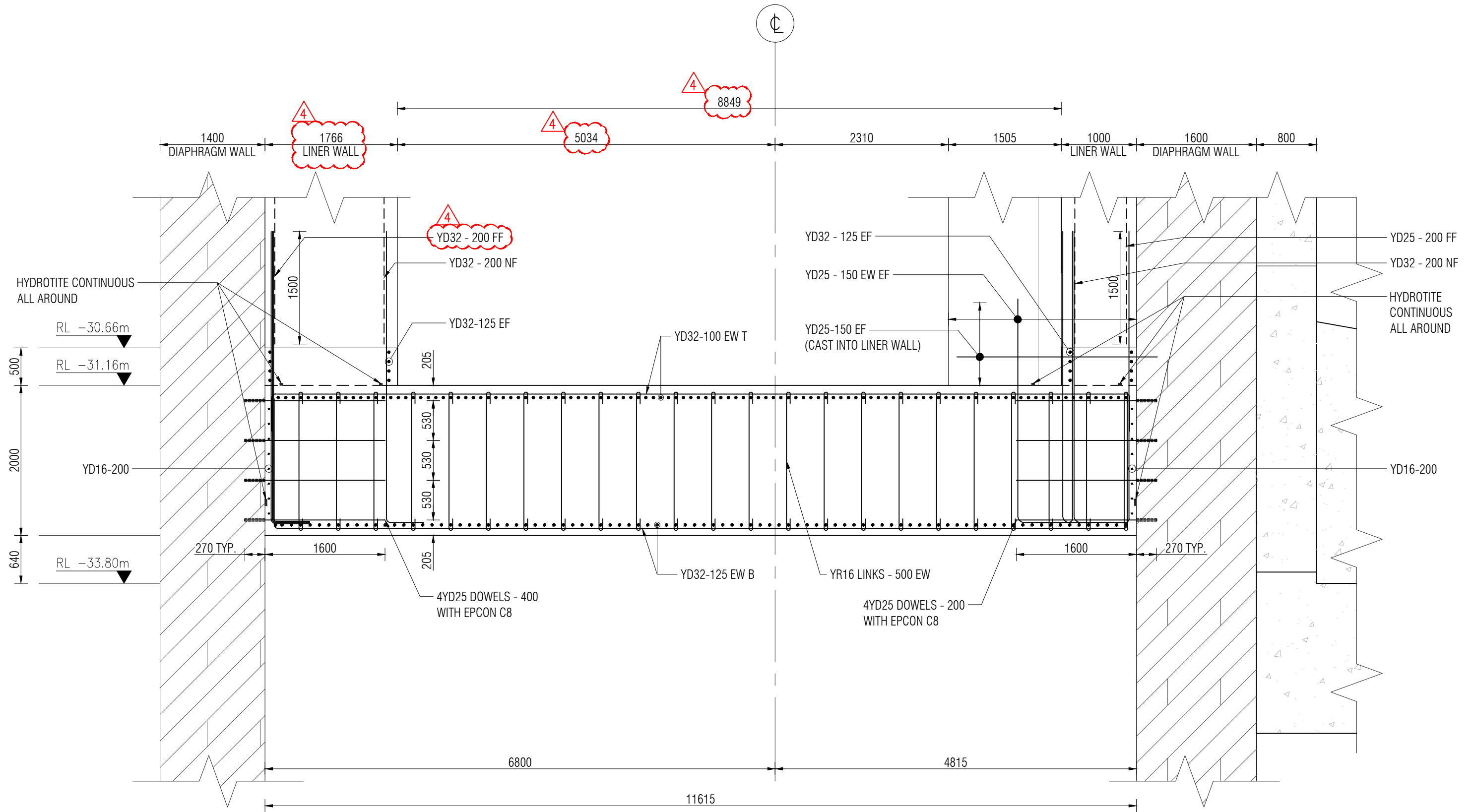
Rev.	Date	Revision Details	By	Ver.	App.
2	01/10/2020	REVISED AS PER COMMENTNS	-	-	-
1	07/08/2020	REVISED AS PER COMMENTS	-	-	-
0	04/08/2020	ISSUED FOR APPROVAL	-	-	-



Project Director:	-	Initials:		Date:	
Designed:	-				
Design Review:	-				
Drawn:	JT				
Drafting Check:	RV				

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	INLET CHAMBER SHAFT BASE SLAB TOP & BOTTOM LAYER LAYOUT @ RL -31.16M AND RL -33.16M (SHEET 02 OF 05)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-01
Rev.	2



SECTION 1
SCALE: 1:50

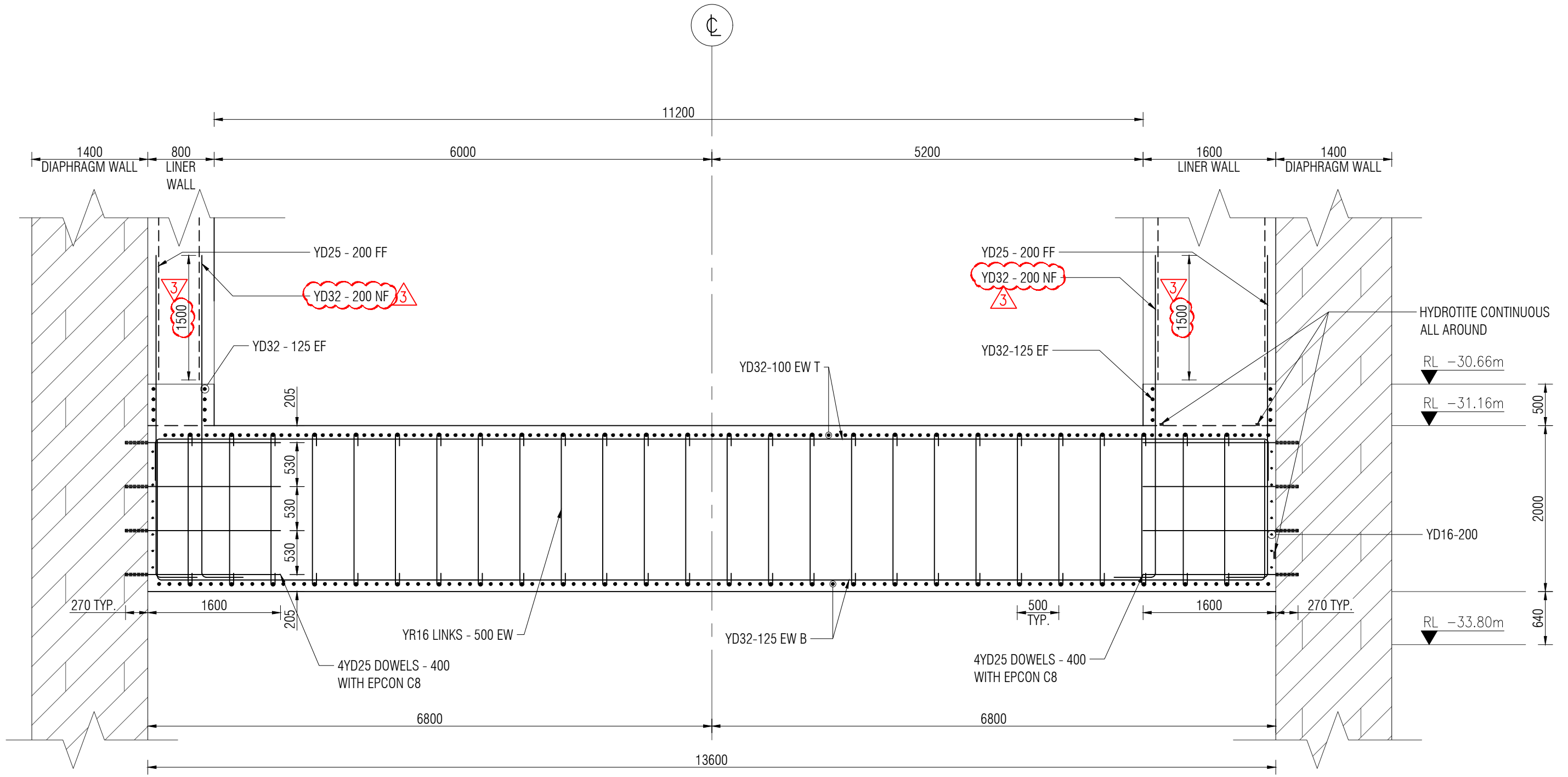
Rev.	Date	Revision Details	By	Ver.	App.
4	01/10/2020	REVISED AS PER COMMENTS	-	-	-
3	07/09/2020	REVISED AS PER COMMENTS	-	-	-
2	14/08/2020	REVISED AS PER COMMENTS	-	-	-
1	07/08/2020	REVISED AS PER COMMENTS	-	-	-
0	04/08/2020	ISSUED FOR APPROVAL	-	-	-



Project Director:	-	Initials:		Date:	
Designed:	-				
Design Review:	-				
Drawn:	JT				
Drafting Check:	RV				

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	INLET CHAMBER SHAFT BASE SLAB SECTION - 1 (SHEET 04 OF 05)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-01
Rev.	4



SECTION 2
SCALE: 1:50

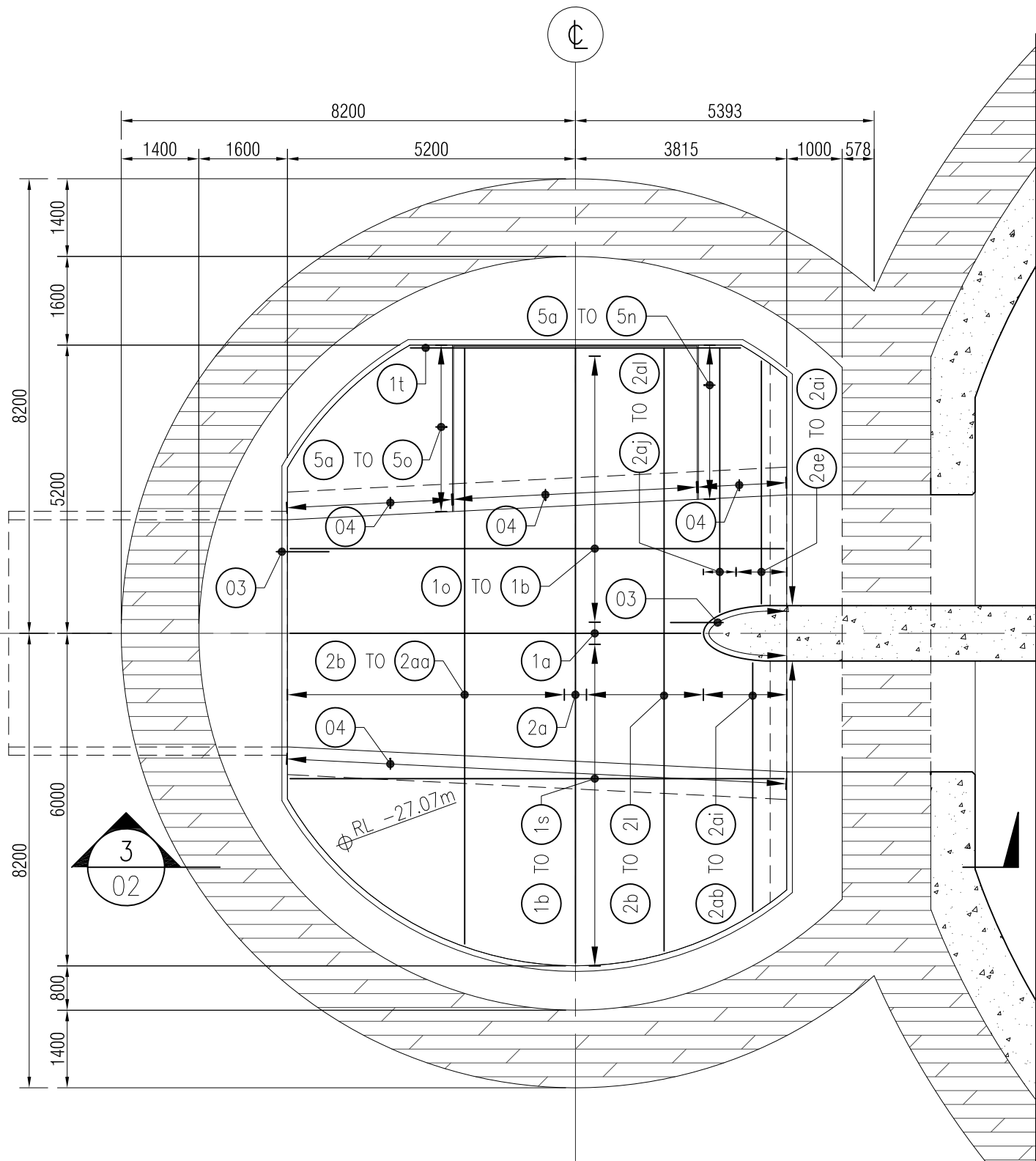
Rev.	Date	Revision Details	By	Ver.	App.
3	07/09/2020	REVISED AS PER COMMENTS			
2	14/08/2020	REVISED AS PER COMMENTS			
1	07/08/2020	REVISED AS PER COMMENTS			
0	04/08/2020	ISSUED FOR APPROVAL			



Project Director:	-	Initials:		Date:	
Designed:	-				
Design Review:	-				
Drawn:	JT				
Drafting Check:	RV				

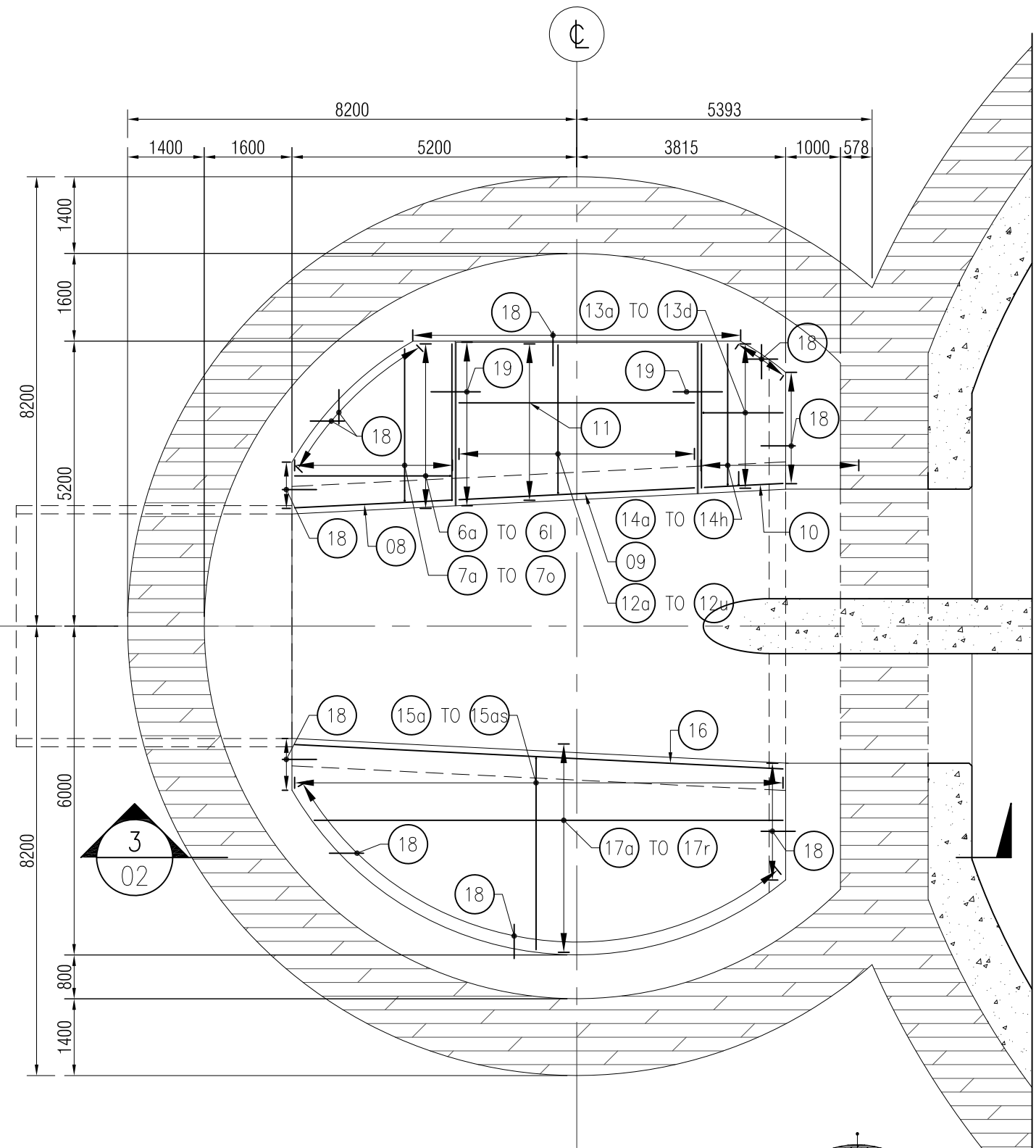
Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	INLET CHAMBER SHAFT BASE SLAB SECTION - 2 (SHEET 05 OF 05)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-01
Rev.	3



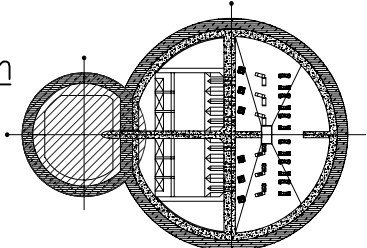
BASE SLAB TOP & BOTTOM LAYER LAYOUT @ RL -27.07m
SCALE: 1:100

MATCHLINE -B REFER DRAWING NO ST-03



BASE SLAB BENCHING SLAB LAYOUT @ RL -25.05m
SCALE: 1:100

MATCHLINE -A REFER DRAWING NO ST-03



KEY PLAN

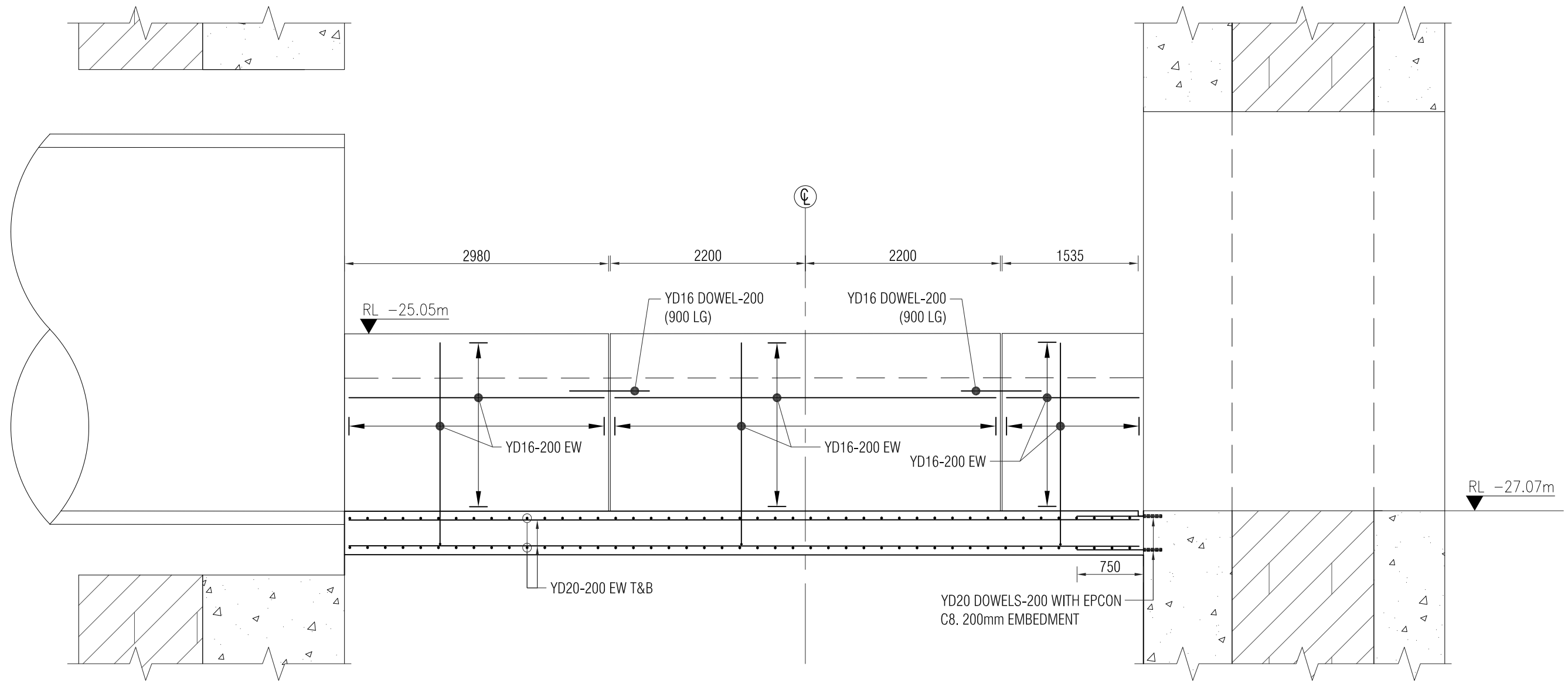
Rev.	Date	Revision Details	By	Ver.	App.
0	04/08/20	ISSUED FOR APPROVAL	-	-	-



Project Director:	-	Initials:	-	Date:	-
Designed:	-				
Design Review:	-				
Drawn:	AM				
Drafting Check:	-				

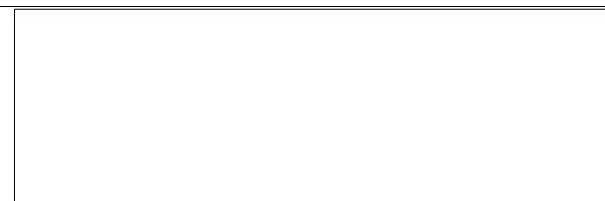
Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	INLET CHAMBER SHAFT BASE SLAB TOP & BOTTOM LAYER LAYOUT @ RL -27.07m AND BENCHING SLAB @ RL -25.05m

Project No.	-
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-02 OF 01
Rev.	0



SECTION 3
SCALE: 1:50 02

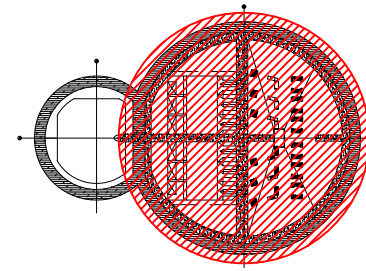
Rev.	Date	Revision Details	By	Ver.	App.
0	04/08/20	ISSUED FOR APPROVAL	-	-	-



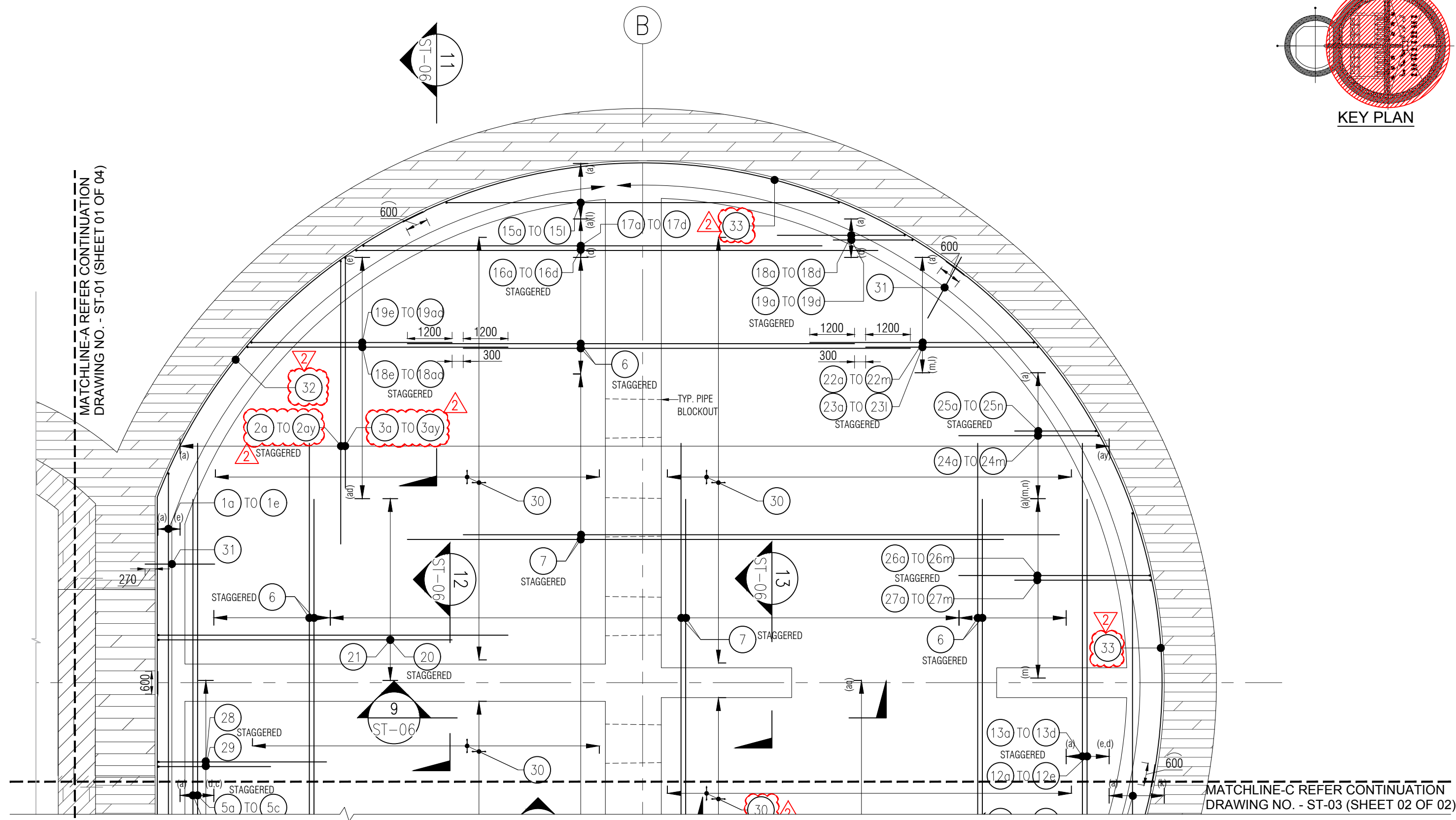
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Designed:		
Design Review:		
Drawn:	AM	
Drafting Check:		

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	INLET CHAMBER SHAFT BASE SLAB @ -27.07 SECTION - 3

Project No.	-
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-02 OF 02 0
Rev.	0



KEY PLAN



MATCHLINE-A REFER CONTINUATION
DRAWING NO. - ST-01 (SHEET 01 OF 04)

MATCHLINE-C REFER CONTINUATION
DRAWING NO. - ST-03 (SHEET 02 OF 02)

BASE SLAB BOTTOM REINFORCEMENT DETAILS AT RL -35.80m
SCALE 1:100

Rev.	Date	Revision Details	By	Ver.	App.
2	24/08/2020	REVISED AS PER COMMENTS	-	-	-
1	17/08/2020	REVISED AS PER COMMENTS	-	-	-
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



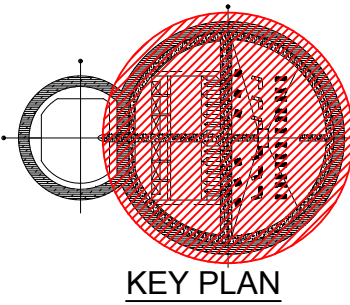
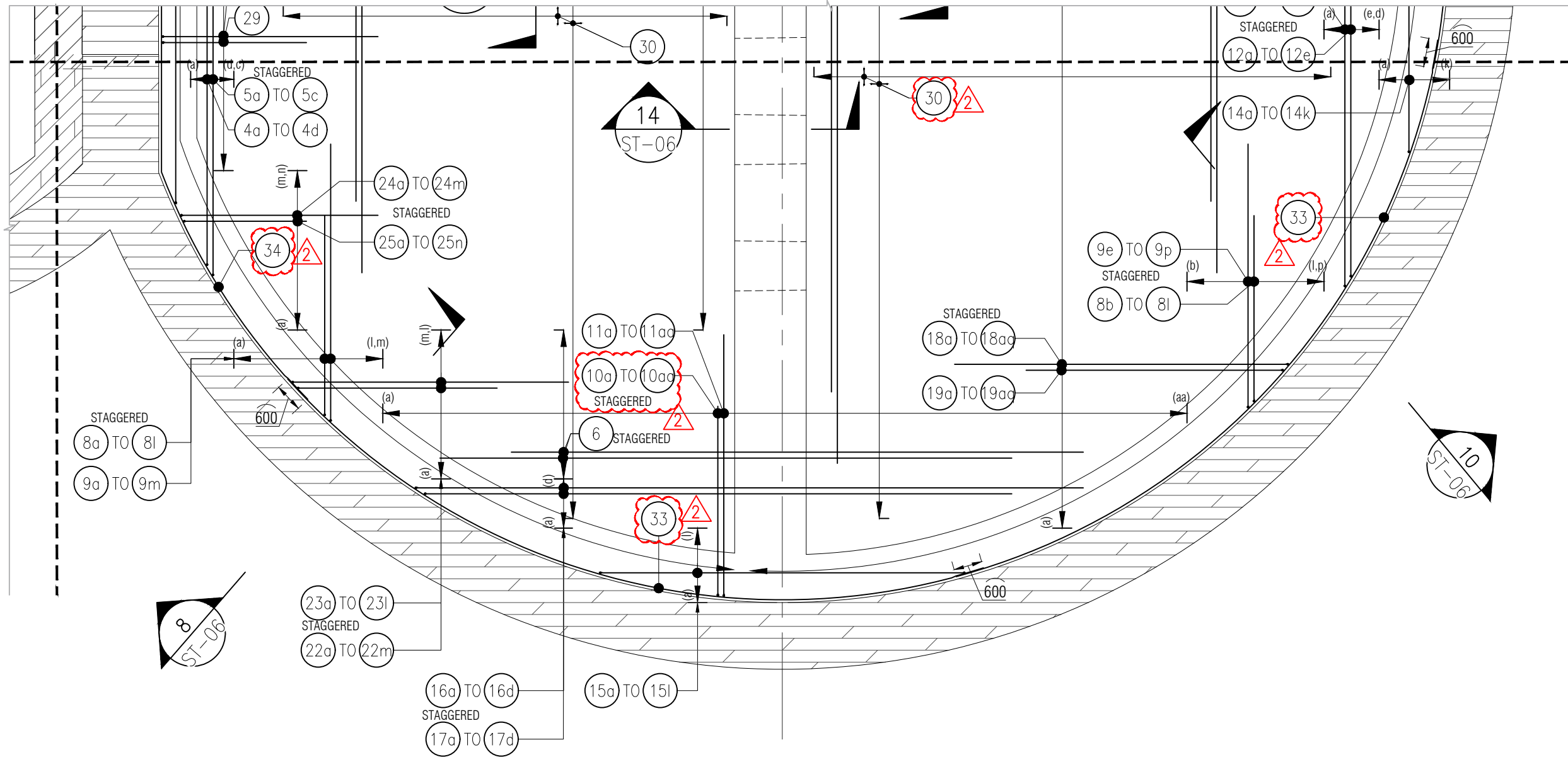
Project Director:	-	Initials:		Date:	
Designed:	-				
Design Review:	-				
Drawn:	HS				
Drafting Check:	RV				

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	WET BASE SLAB BOTTOM REINFORCEMENT DETAILS AT RL -35.80m SHEET (01 OF 02)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-03
Rev.	02

MATCHLINE-A REFER CONTINUATION DRAWING NO. -- ST-01 (SH 01 OF 04)

MATCHLINE-C REFER CONTINUATION DRAWING NO. -- ST-03 (SH 01 OF 02)



BASE SLAB BOTTOM REINFORCEMENT DETAILS AT RL -35.80m
SCALE 1:100

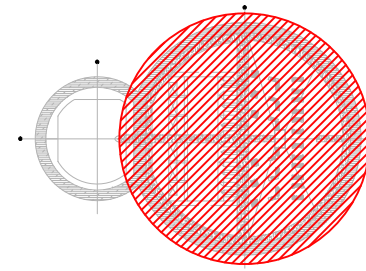
Rev.	Date	Revision Details	By	Ver.	App.
2	24/08/2020	REVISED AS PER COMMENTS	-	-	-
1	17/08/2020	REVISED AS PER COMMENTS	-	-	-
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



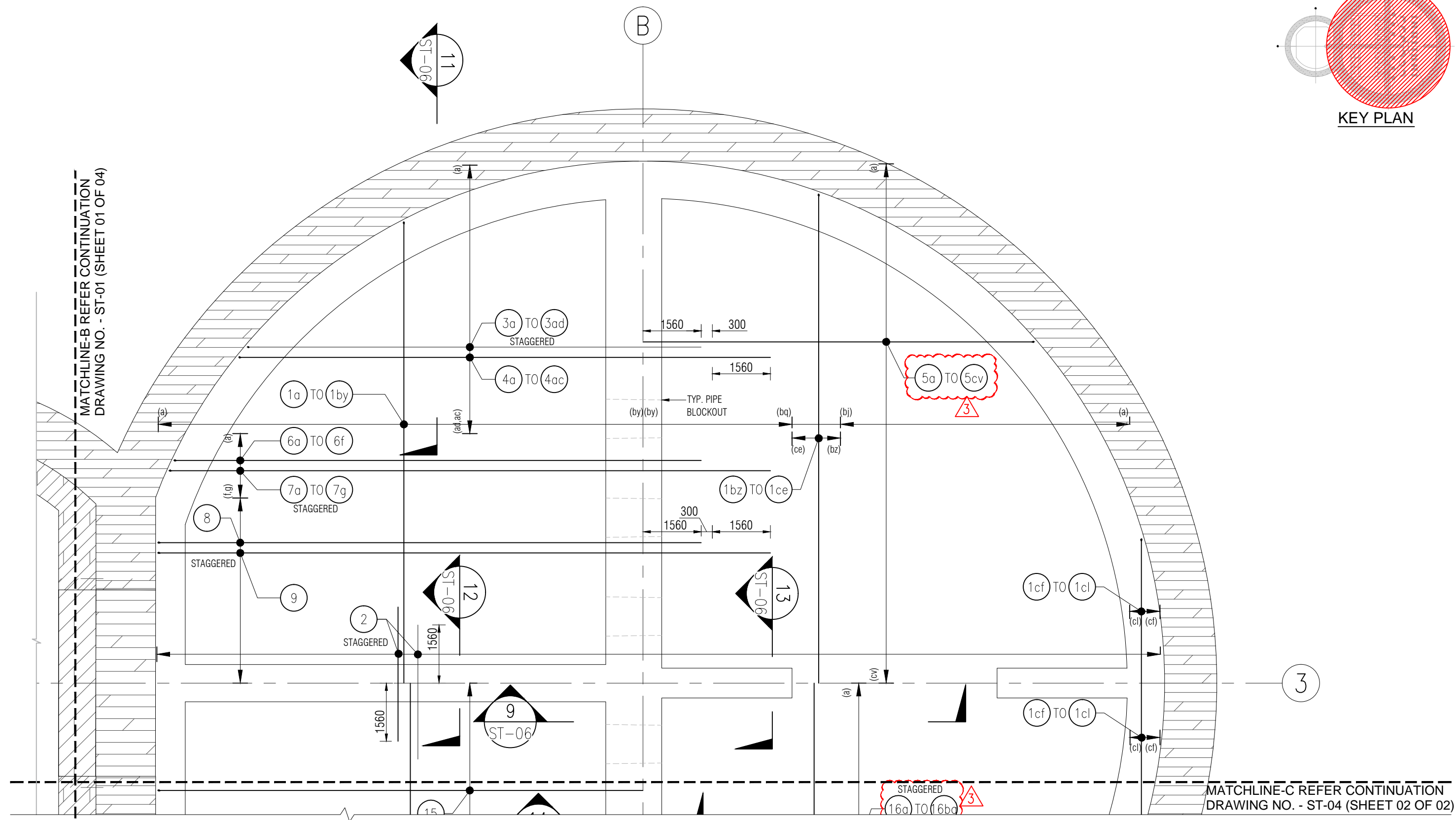
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Designed:	-				
Design Review:	-				
Drawn:	HS				
Drafting Check:	RV				

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	WET BASE SLAB BOTTOM REINFORCEMENT DETAILS AT RL -35.80m SHEET (02 OF 02)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-03
Rev.	02



KEY PLAN



MATCHLINE-B REFER CONTINUATION DRAWING NO. - ST-01 (SHEET 01 OF 04)

MATCHLINE-C REFER CONTINUATION DRAWING NO. - ST-04 (SHEET 02 OF 02)

BASE SLAB TOP REINFORCEMENT DETAILS AT RL -33.80m
SCALE 1:100

Rev.	Date	Revision Details	By	Ver.	App.
3	01/09/2020	REVISED AS PER COMMENTS	-	-	-
2	17/08/2020	REVISED AS PER COMMENTS	-	-	-
1	14/08/2020	REVISED AS PER COMMENTS	-	-	-
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



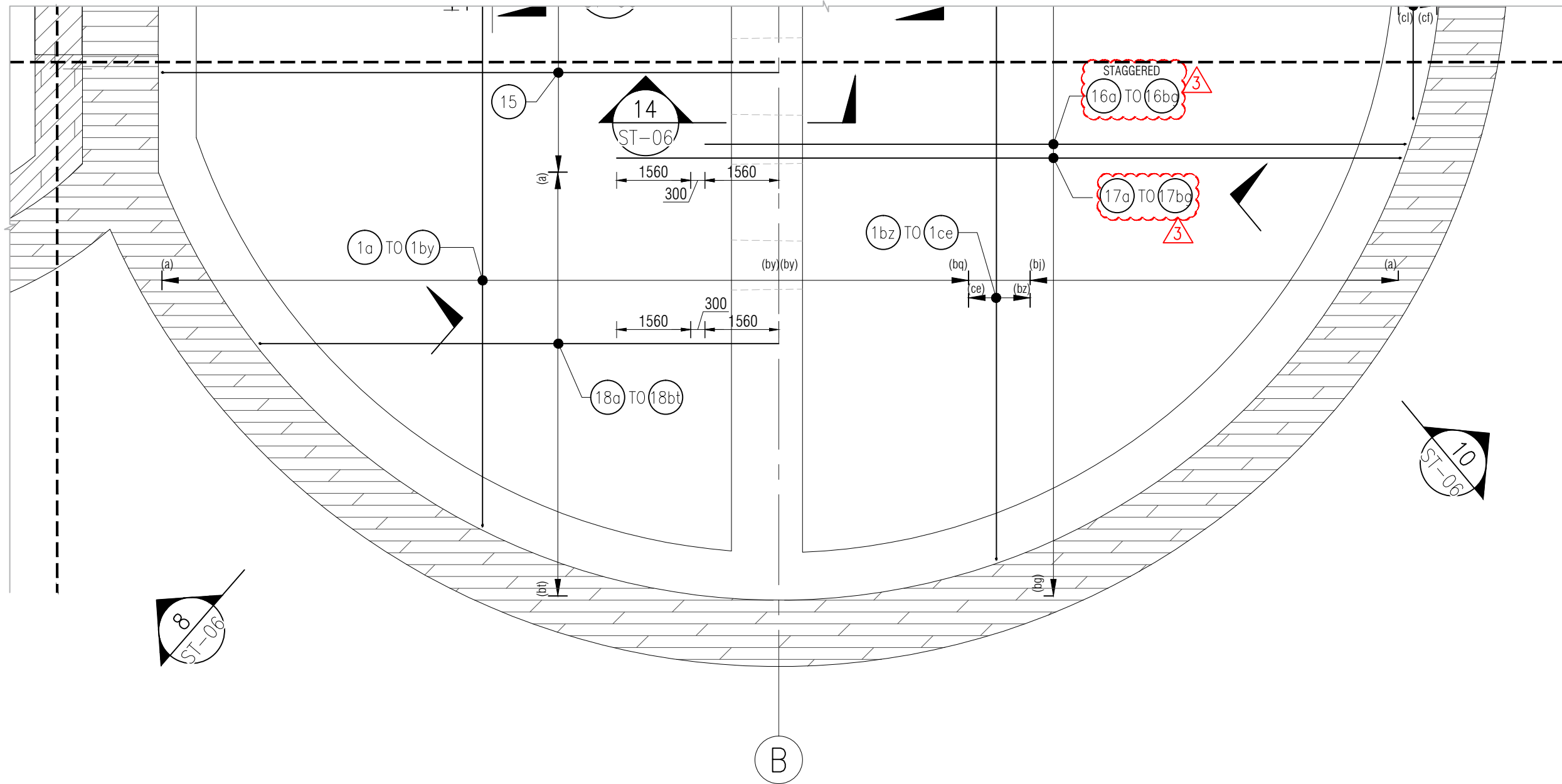
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Designed:	-				
Design Review:	-				
Drawn:	AS				
Drafting Check:	RV				

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	WET BASE SLAB TOP REINFORCEMENT DETAILS AT RL -33.80m SHEET (01 OF 02)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-04
Rev.	3

MATCHLINE-B REFER CONTINUATION DRAWING NO. -- ST-01 (SH 01 OF 04)

MATCHLINE-C REFER CONTINUATION DRAWING NO. -- ST-04 (SH 01 OF 02)



BASE SLAB TOP REINFORCEMENT DETAILS AT RL -33.80m
SCALE 1:100

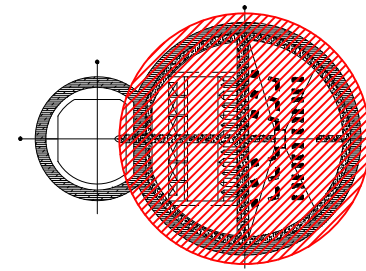
Rev.	Date	Revision Details	By	Ver.	App.
3	01/09/2020	REVISED AS PER COMMENTS	-	-	-
2	17/08/2020	REVISED AS PER COMMENTS	-	-	-
1	14/08/2020	REVISED AS PER COMMENTS	-	-	-
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



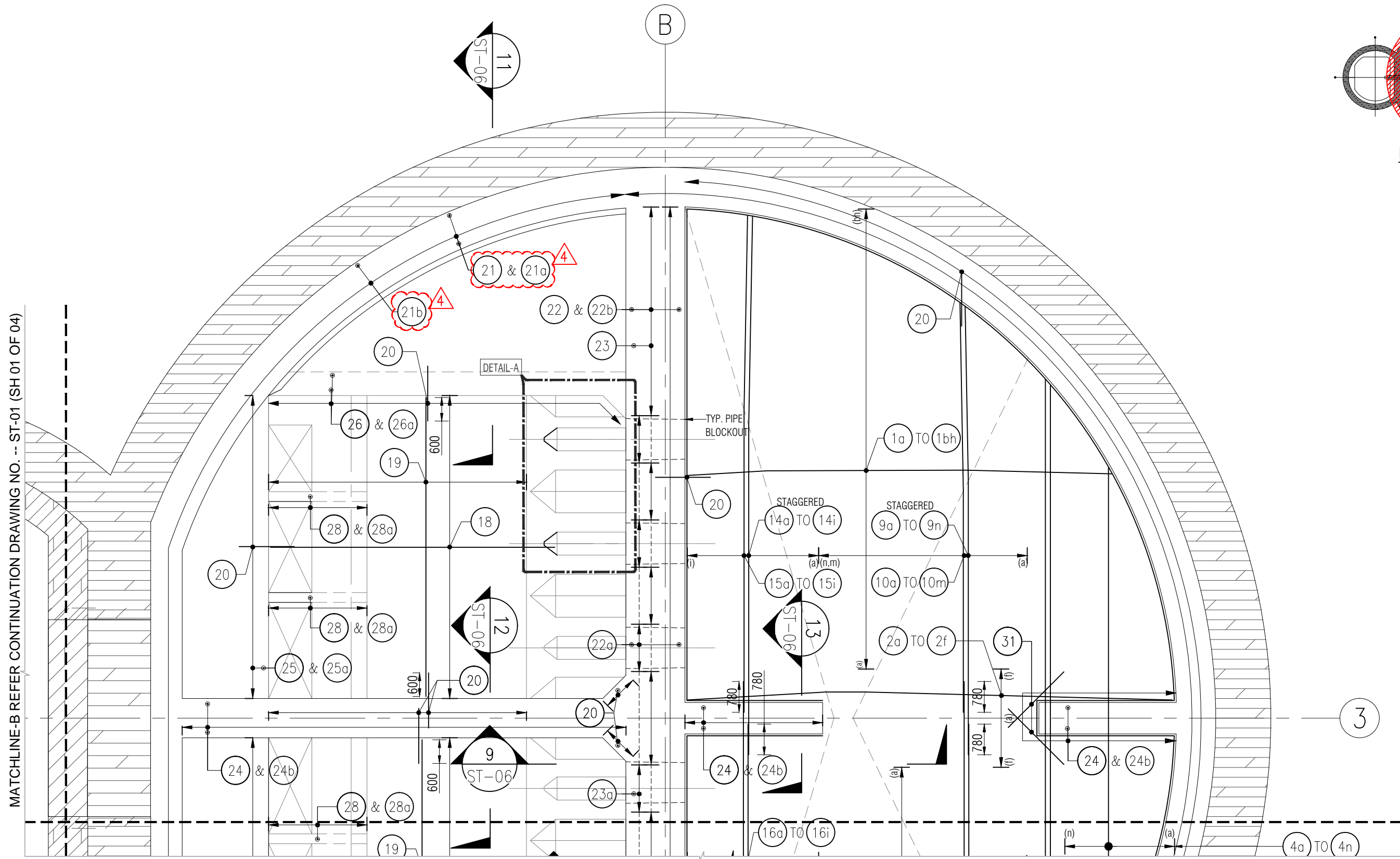
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Designed:	-				
Design Review:	-				
Drawn:	AS				
Drafting Check:	RV				

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	WET BASE SLAB TOP REINFORCEMENT DETAILS AT RL -33.80m SHEET (02 OF 02)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-04
Rev.	3



KEY PLAN



BASE SLAB TOP REINFORCEMENT DETAILS AT RL -33.03m
SCALE 1:100

Rev.	Date	Revision Details	By	Ver.	App.
4	18/09/2020	REVISED AS PER COMMENTS	-	-	-
3	15/09/2020	REVISED AS PER COMMENTS	-	-	-
2	17/08/2020	REVISED AS PER COMMENTS	-	-	-
1	14/08/2020	REVISED AS PER COMMENTS	-	-	-
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-

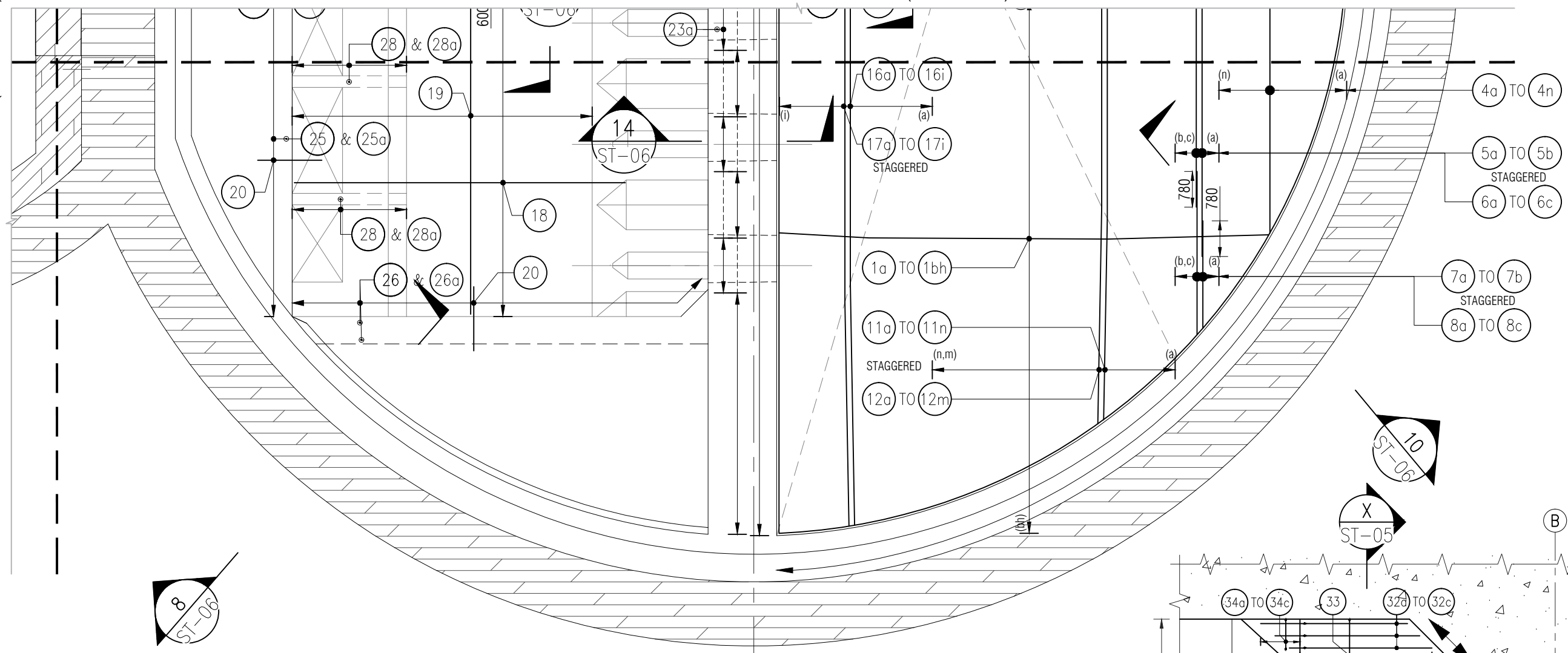
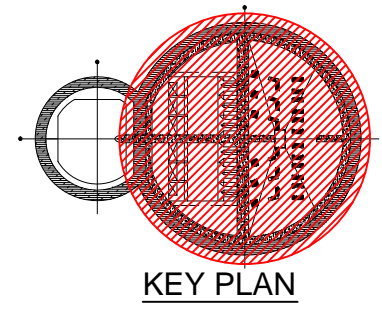


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Designed:	-				
Design Review:	-				
Drawn:	AS				
Drafting Check:	RV				

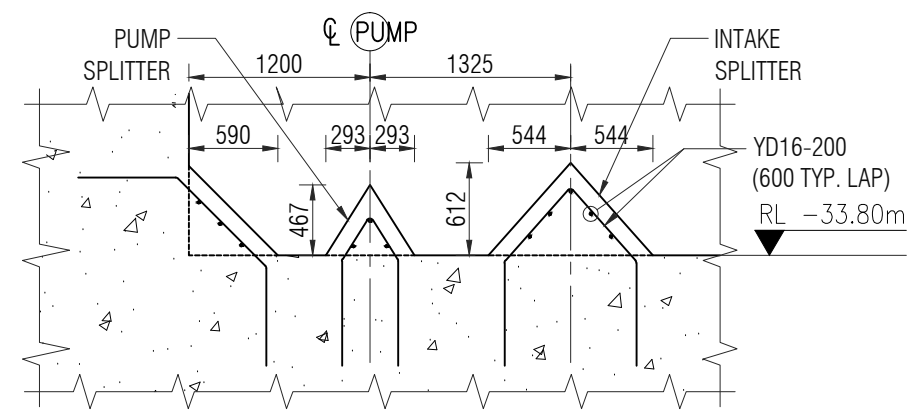
Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	WET BASE SLAB TOP REINFORCEMENT DETAILS AT RL -33.03m SHEET (01 OF 02)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-05
Rev.	4

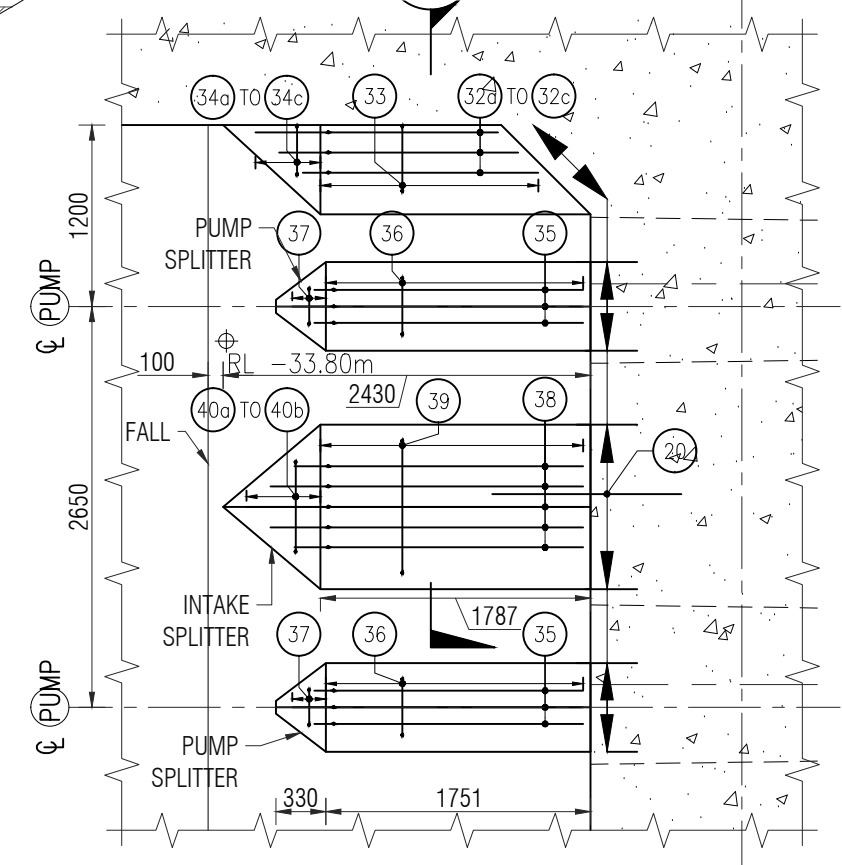
MATCHLINE-B REFER CONTINUATION DRAWING NO. -- ST-01 (SH 01 OF 04)



BASE SLAB TOP REINFORCEMENT DETAILS AT RL -33.03m
SCALE 1:100



SECTION X-X
SCALE: 1:50



DETAIL A-A
SCALE: 1:50

Rev.	Date	Revision Details	By	Ver.	App.
4	18/09/2020	REVISED AS PER COMMENTS	-	-	-
3	15/09/2020	REVISED AS PER COMMENTS	-	-	-
2	17/08/2020	REVISED AS PER COMMENTS	-	-	-
1	14/08/2020	REVISED AS PER COMMENTS	-	-	-
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



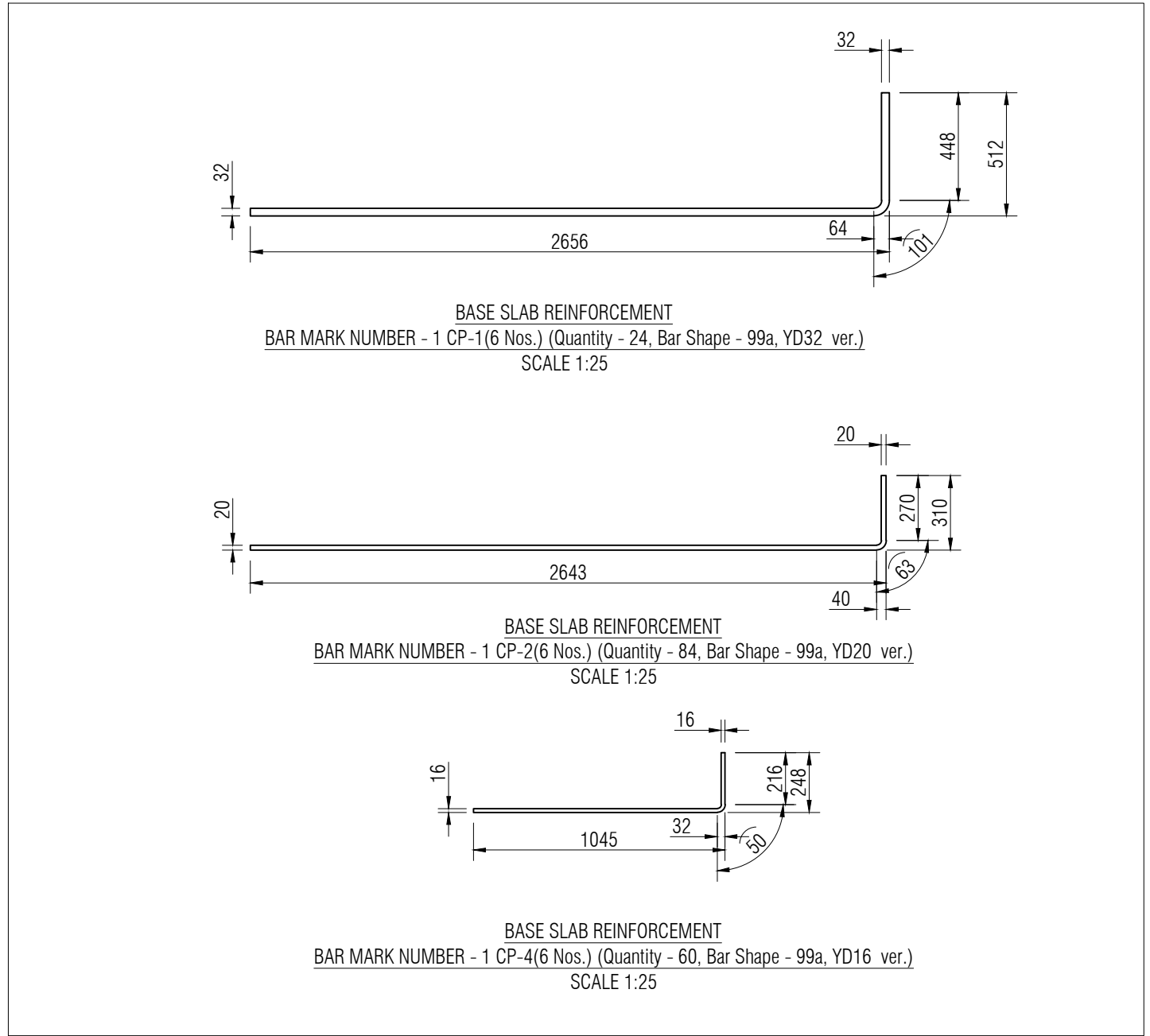
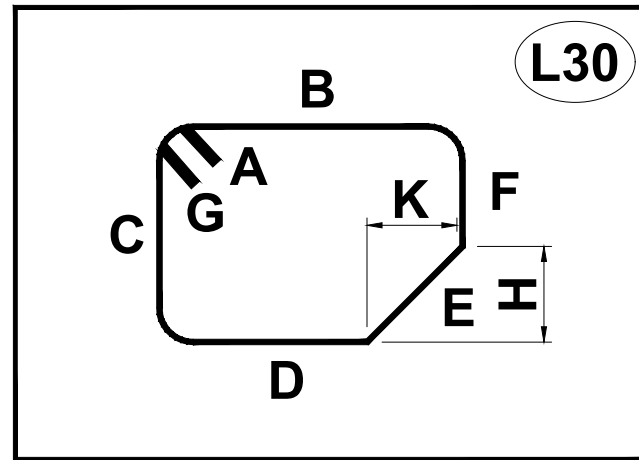
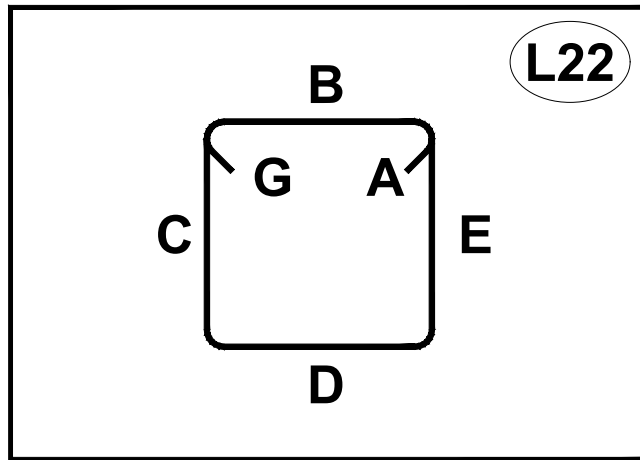
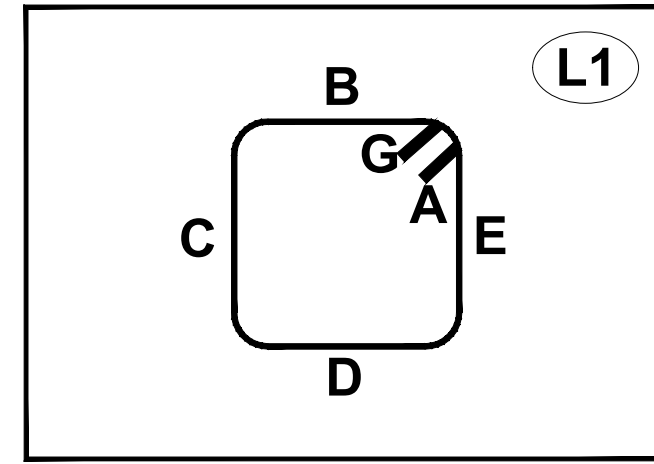
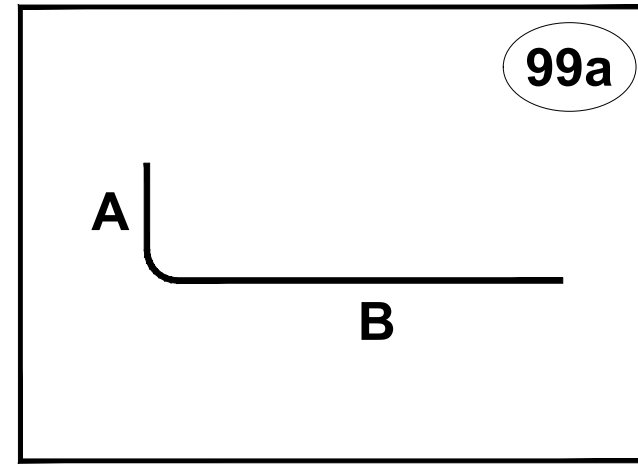
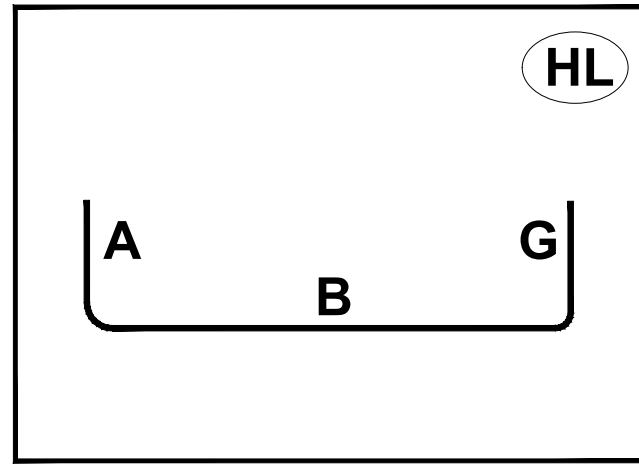
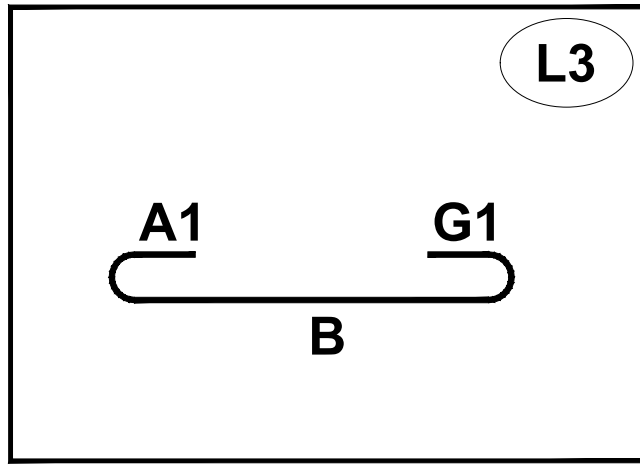
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Designed:		
Design Review:		
Drawn:	AS	
Drafting Check:	RV	

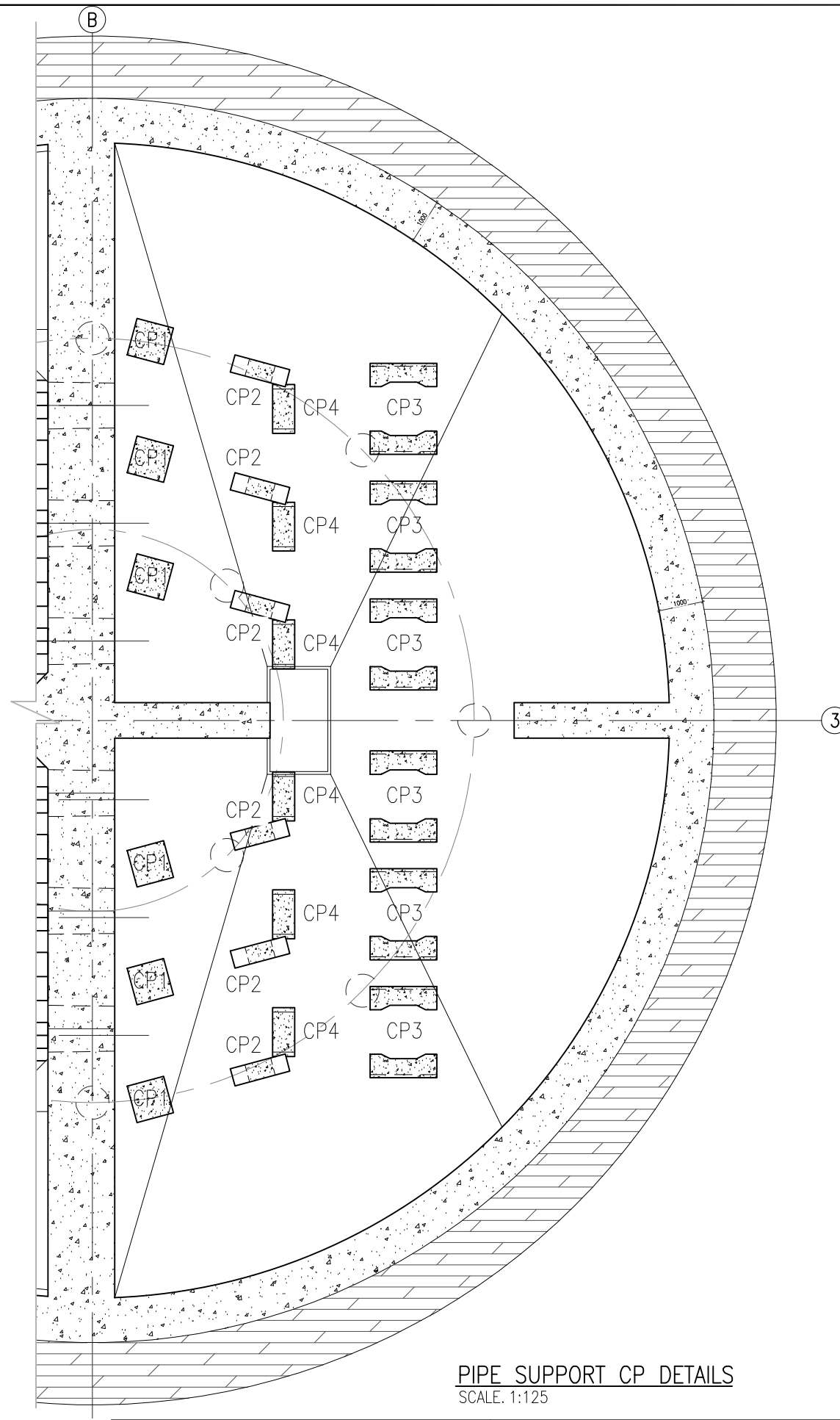
Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	WET BASE SLAB TOP REINFORCEMENT DETAILS AT RL -33.03m SHEET (02 OF 02)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-05
Rev.	4

PROJECT:		MANGERE PUMPING STATION											Revision:-	00			
MATERIAL FOR:		WET BASE SLAB PIPE SUPPORT CP DETAILS											Date:-	06-08-2020			
Bar Mark	Quantity	Bar Size	Shape	Grade	Cut Length	A	B	C	D	E	F	G	r	H/K	Segment/Area	WEIGHT	
																	kg
CP-1 (6Nos.)																	
1	24	32	99a		3103	512	2656						65		YD32 VERTICAL BARS	626.86	
2	48	25	99a		2974	400	2624						50		YD25 VERTICAL BARS	550.02	
3	66	16	L1		2696	128	650	650	650	650		128	160		YR16 @ 250 crs STIRRUPS	280.78	
4	264	16	L3		841	128	650					128	65		YR16 @ 250 crs LINKS	350.35	
5	48	16	HL		1065	240	650					240	65		YD16 @ 250 crs U BAR EW	80.67	
CP-2 (6Nos.)																	
1	84	20	99a		2913	310	2643						40		YD20 VERTICAL BARS	603.41	
2	126	16	L1		1296	128	200	400	200	400		128	160		YR16 @ 125 crs STIRRUPS	257.68	
3	36	16	HL		1355	170	1080					170	65		YD16 TOP & BOTTOM U BAR	76.97	
4	96	16	HL		475	170	200					170	65		YD16 @ 150 crs T. & B. U BAR	71.96	
5	264	16	L3		265	65	200					65	65		YR16 @ 125 crs LINKS	110.40	
CP-3 (12Nos.)																	
1	216	20	HL		2955	310	2415					310	80		YD20 VERTICAL BARS	1,574.00	
2	288	16	L30		1361	128	350	325	125	250	215	128	160	110/225	YR16 @ 200 crs STIRRUPS	618.53	
3	144	16	L22		1046	128	250	225	250	225		128	160		YR16 @ 200 crs STIRRUPS	237.68	
4	288	16	HL		2820	310	2265					310	65		YD16 @ 200 crs U BAR	1,281.59	

PROJECT:		MANGERE PUMPING STATION										Revision:-		00		
MATERIAL FOR:		WET BASE SLAB PIPE SUPPORT CP DETAILS										Date:-		06-08-2020		
Bar Mark	Quantity	Bar Size	Shape	Grade	Cut Length	A	B	C	D	E	F	G	r	H/K	Segment/Area	WEIGHT
CP-4 (6Nos.)																
1	60	16	99a		1261	248	1045						32		Y16 VERTICAL BARS	119.39
2	18	12	L1		2072	96	300	700	300	700		96	120		YR12 @ 150 crs STIRRUPS	33.12
3	36	16	HL		1005	85	900					85	65		YD16 @ 200 crs U BAR	57.09
4	36	12	L1		872	96	100	300	100	300		96	120		YR12 @ 180 crs STIRRUPS	27.88
5	18	12	L3		344	96	200					96	48		YR12 @ 150 crs LINKS	5.50
															INPUT DATE:	
															WEIGHT kg.:	6,963.88
															WEIGHT Tons.:	6.96





PIPE SUPPORT CP DETAILS		
ELEVATION NUMBER	CP-NAME	QUANTITY
1	CP-1	6
2	CP-2	6
3	CP-3	12
4	CP-4	6

PIPE SUPPORT CP DETAILS
SCALE: 1:125

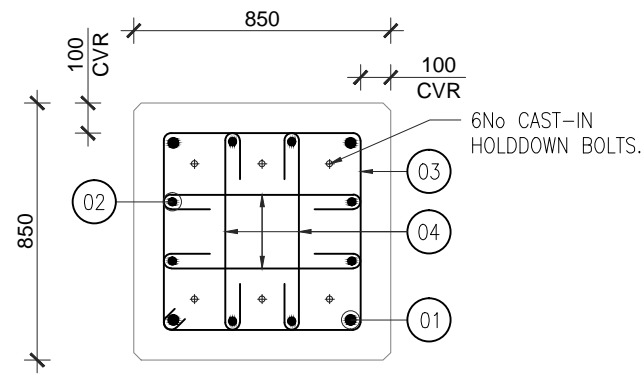
Rev.	Date	Revision Details	By	Ver.	App.
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



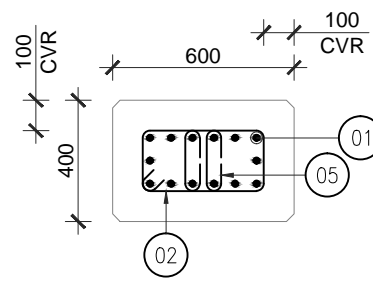
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Designed:	-				
Design Review:	-				
Drawn:	NG				
Drafting Check:	HP				

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Project No.:	6661
Scale:	AS SHOWN original sheet size A3
Drawing Title:	PIPE SUPPORT CP DETAILS SHEET (01 OF 06)

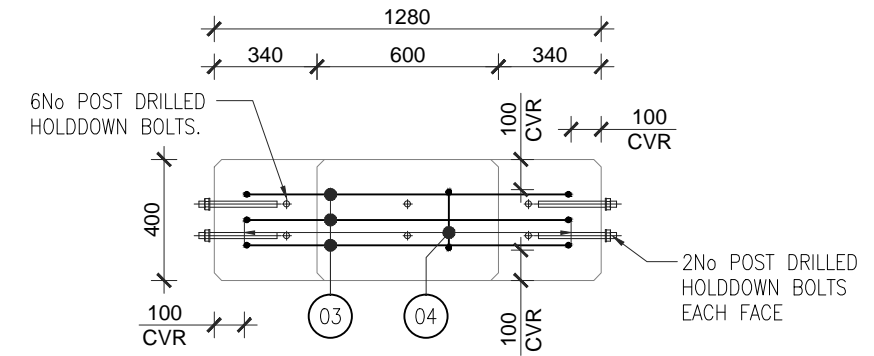
Project No.:	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.:	ST-06
Rev.:	0



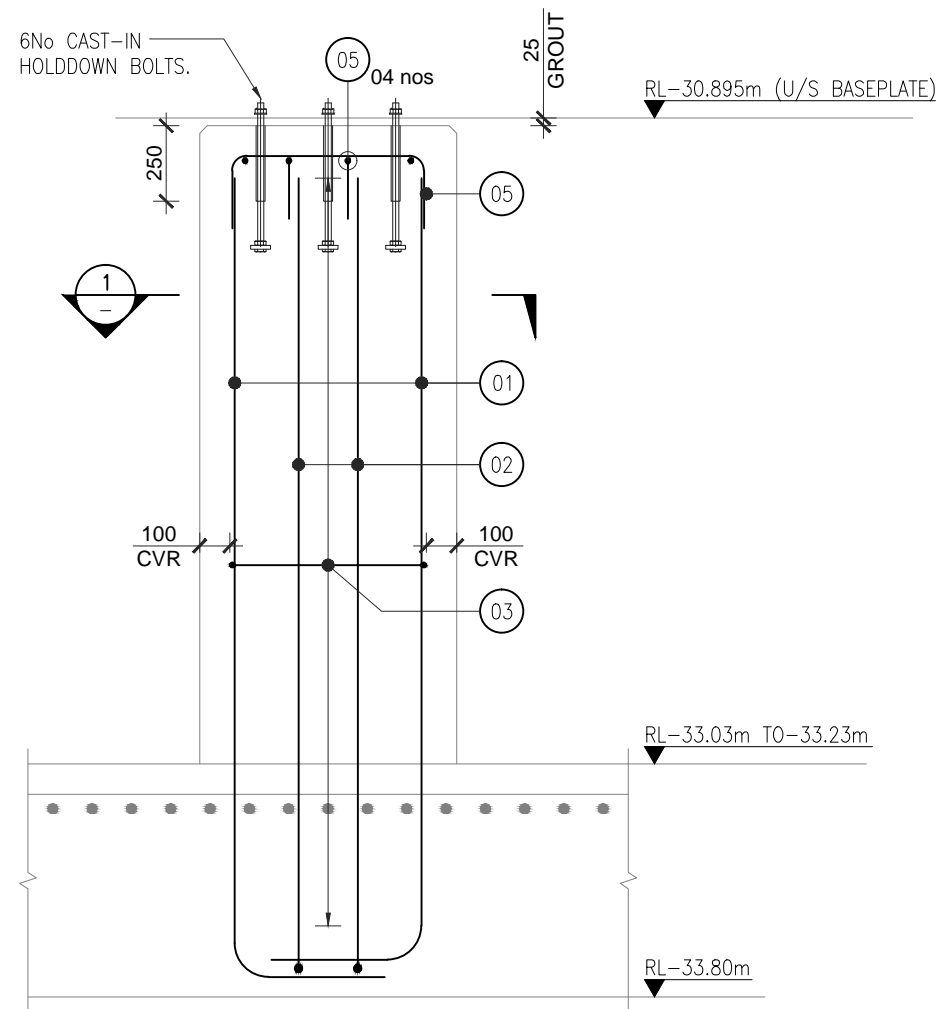
SECTION 1
SCALE: 1:25



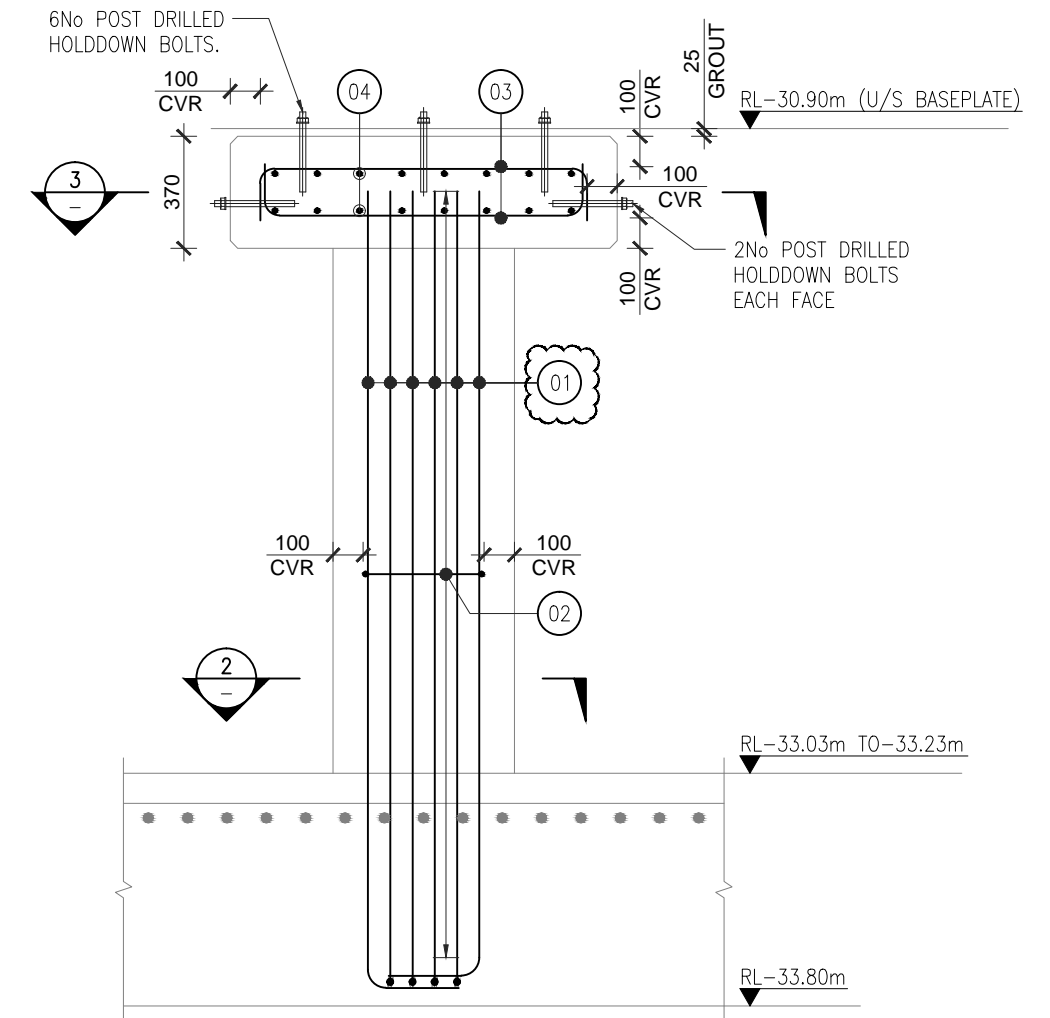
SECTION 2
SCALE: 1:25



SECTION 3
SCALE: 1:25



ELEVATION 1 PIPE SUPPORT CP1 (6No)
SCALE: 1:25



ELEVATION 2 PIPE SUPPORT CP2 (6No)
SCALE: 1:25

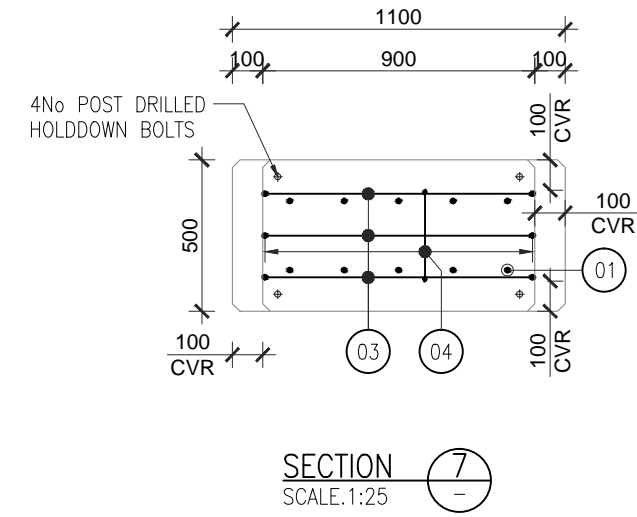
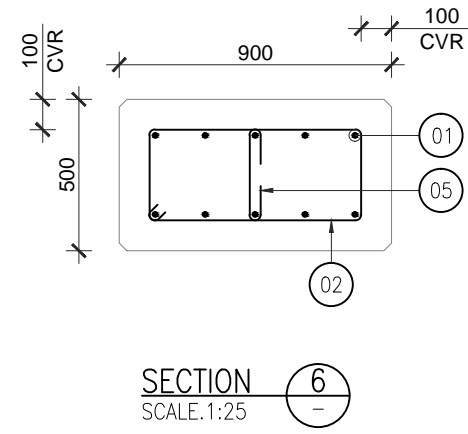
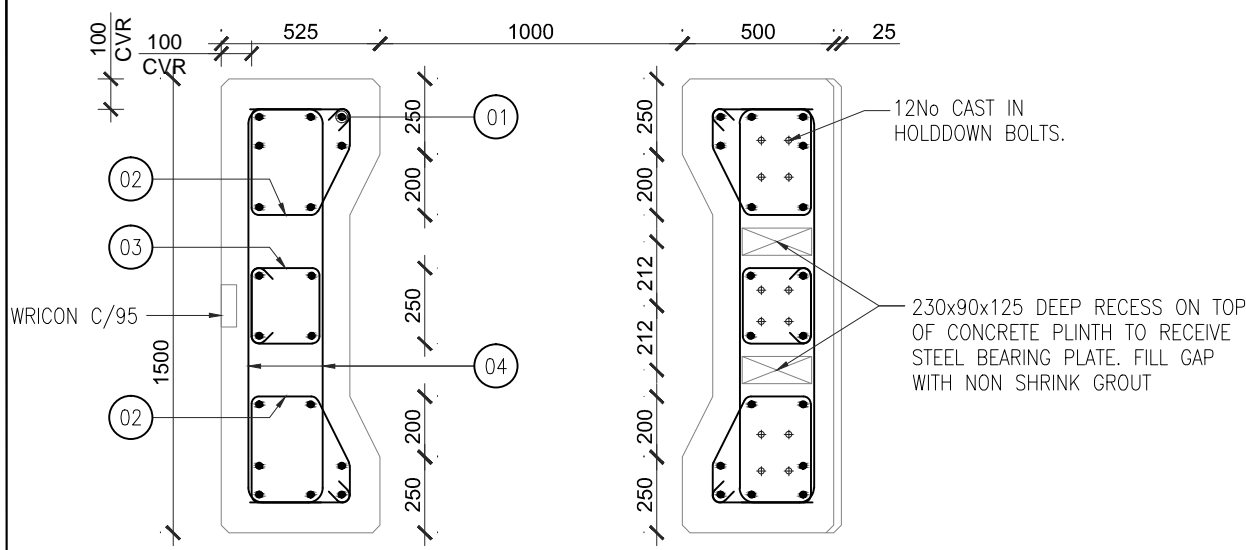
Rev.	Date	Revision Details	By	Ver.	App.
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



Project Director:	-	Initials:		Date:	
Designed:	-				
Design Review:	-				
Drawn:	NG				
Drafting Check:	HP				

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	PIPE SUPPORT CP DETAILS SHEET (02 OF 06)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-06
Rev.	0

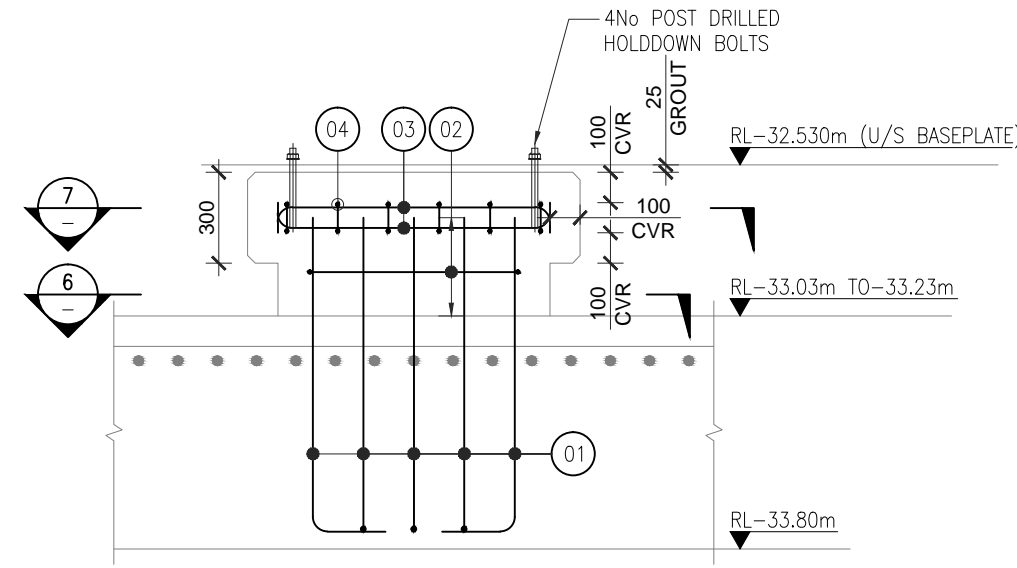
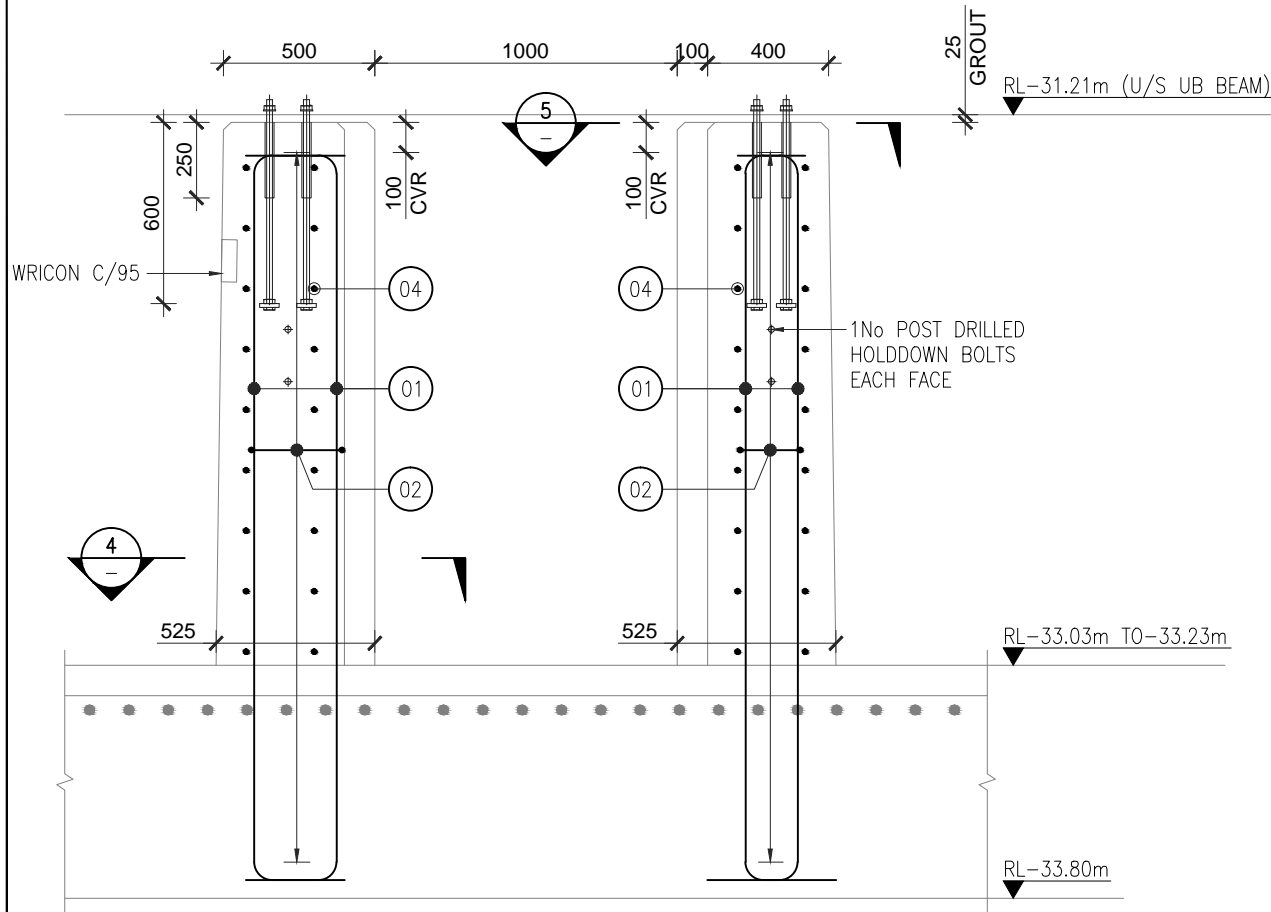


SECTION 4
SCALE: 1:25

SECTION 5
SCALE: 1:25

SECTION 6
SCALE: 1:25

SECTION 7
SCALE: 1:25



ELEVATION 3 PIPE SUPPORT CP3 (12No)
SCALE: 1:25

ELEVATION 4 PIPE SUPPORT CP4 (6No)
SCALE: 1:25

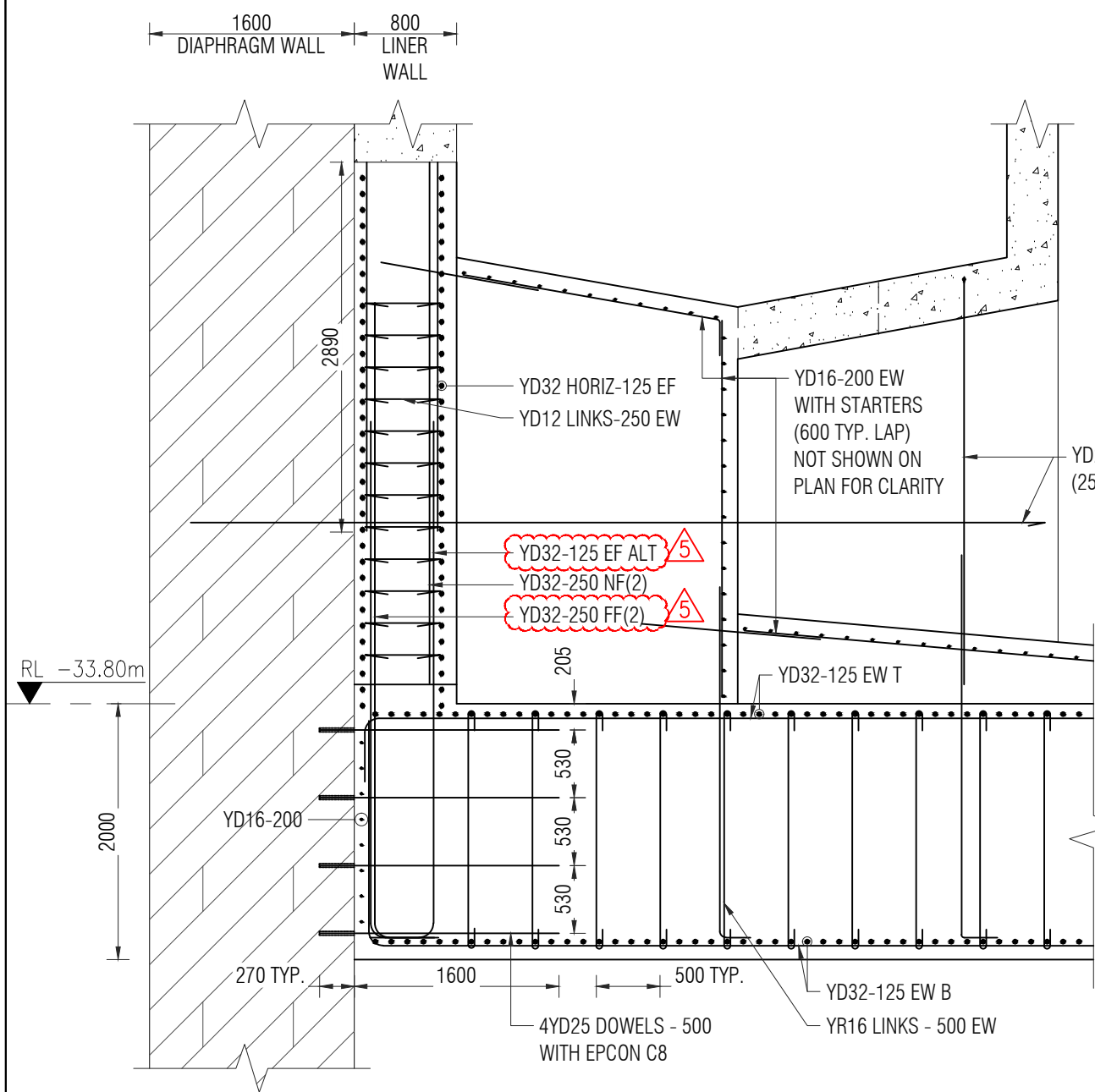
Rev.	Date	Revision Details	By	Ver.	App.
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



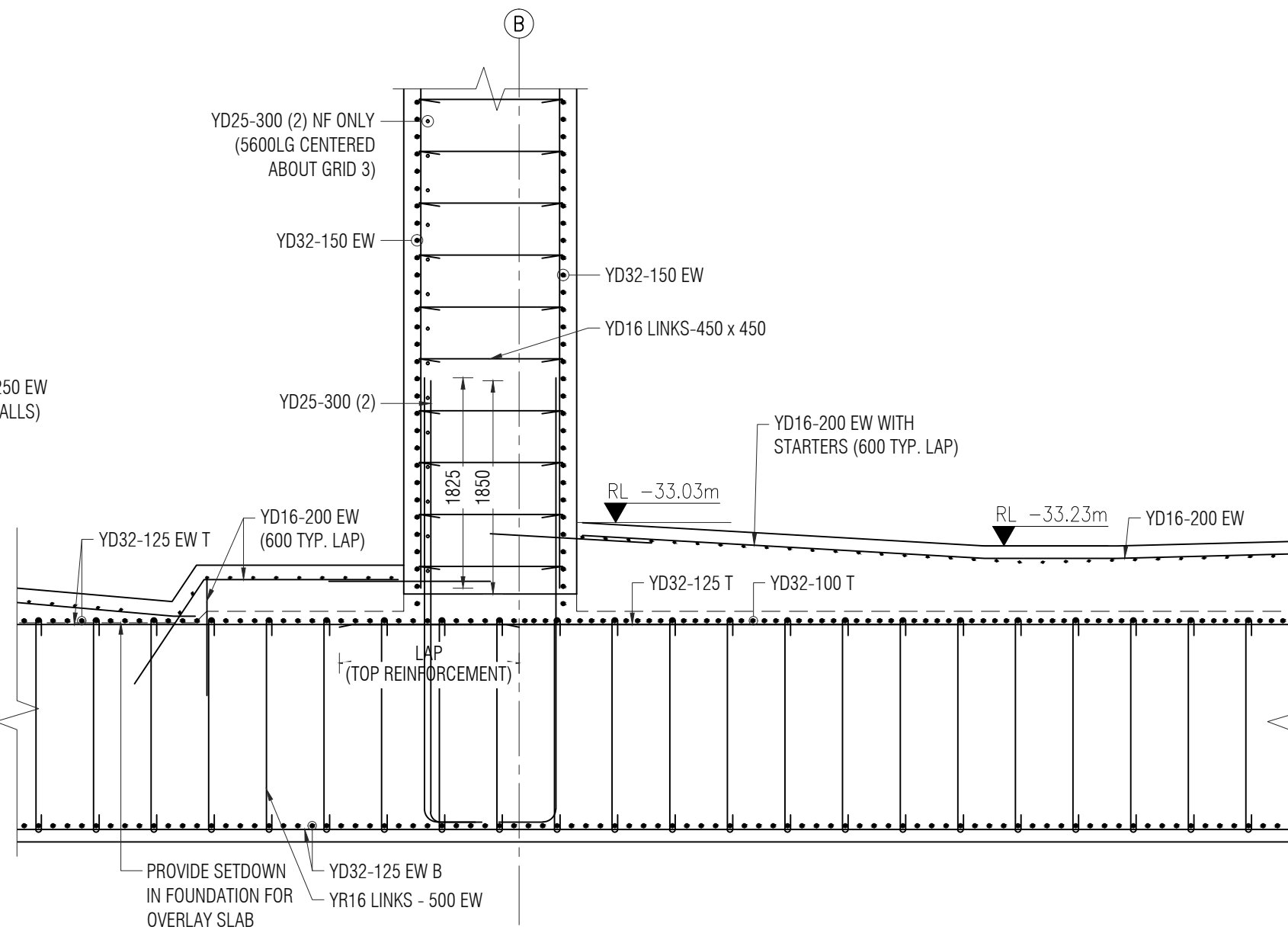
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Drawn:	NG				
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Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	PIPE SUPPORT CP DETAILS SHEET (03 OF 06)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-06
Rev.	0



SECTION 8
SCALE: 1:50
ST-03



SECTION 9
SCALE: 1:50
ST-03

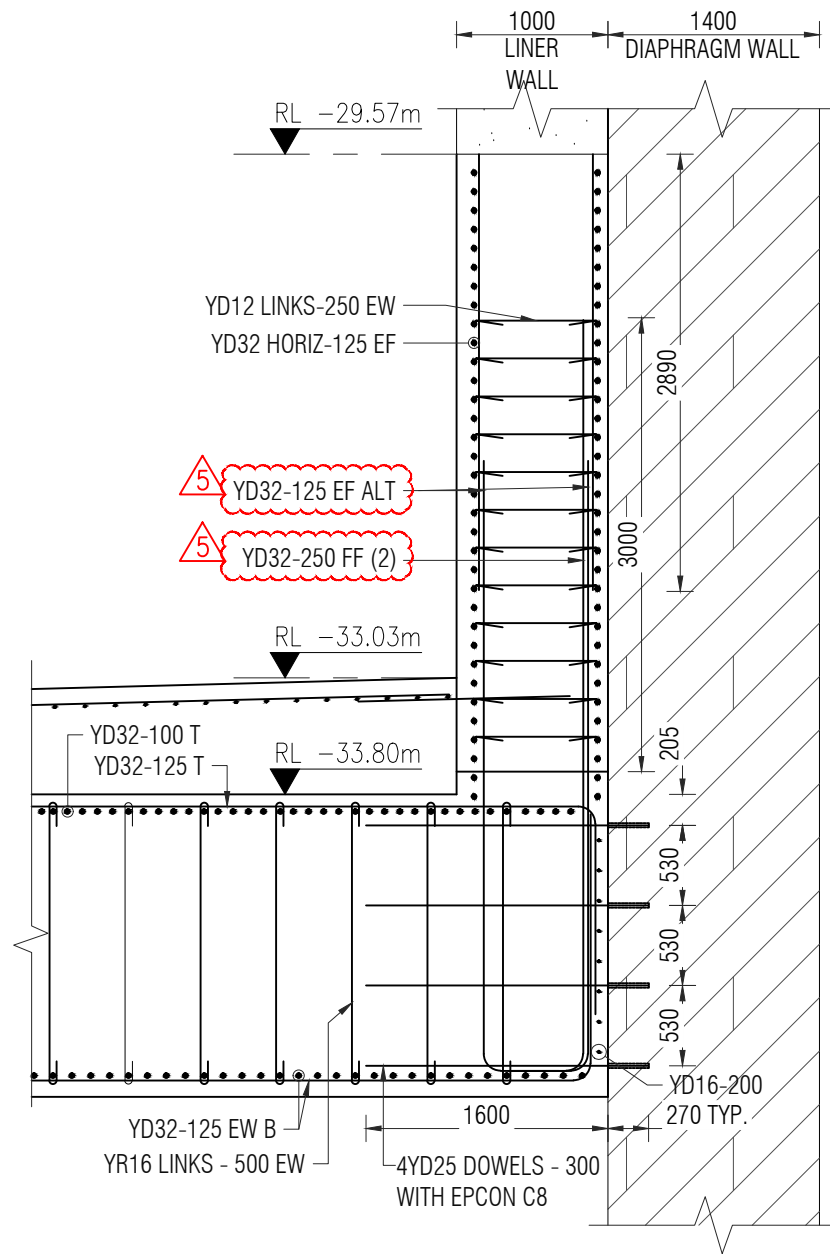
Rev.	Date	Revision Details	By	Ver.	App.
5	18/09/2020	REVISED AS PER COMMENTS	-	-	-
4	15/09/2020	REVISED AS PER COMMENTS	-	-	-
3	01/09/2020	REVISED AS PER COMMENTS	-	-	-
2	17/08/2020	REVISED AS PER COMMENTS	-	-	-
1	14/08/2020	REVISED AS PER COMMENTS	-	-	-
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



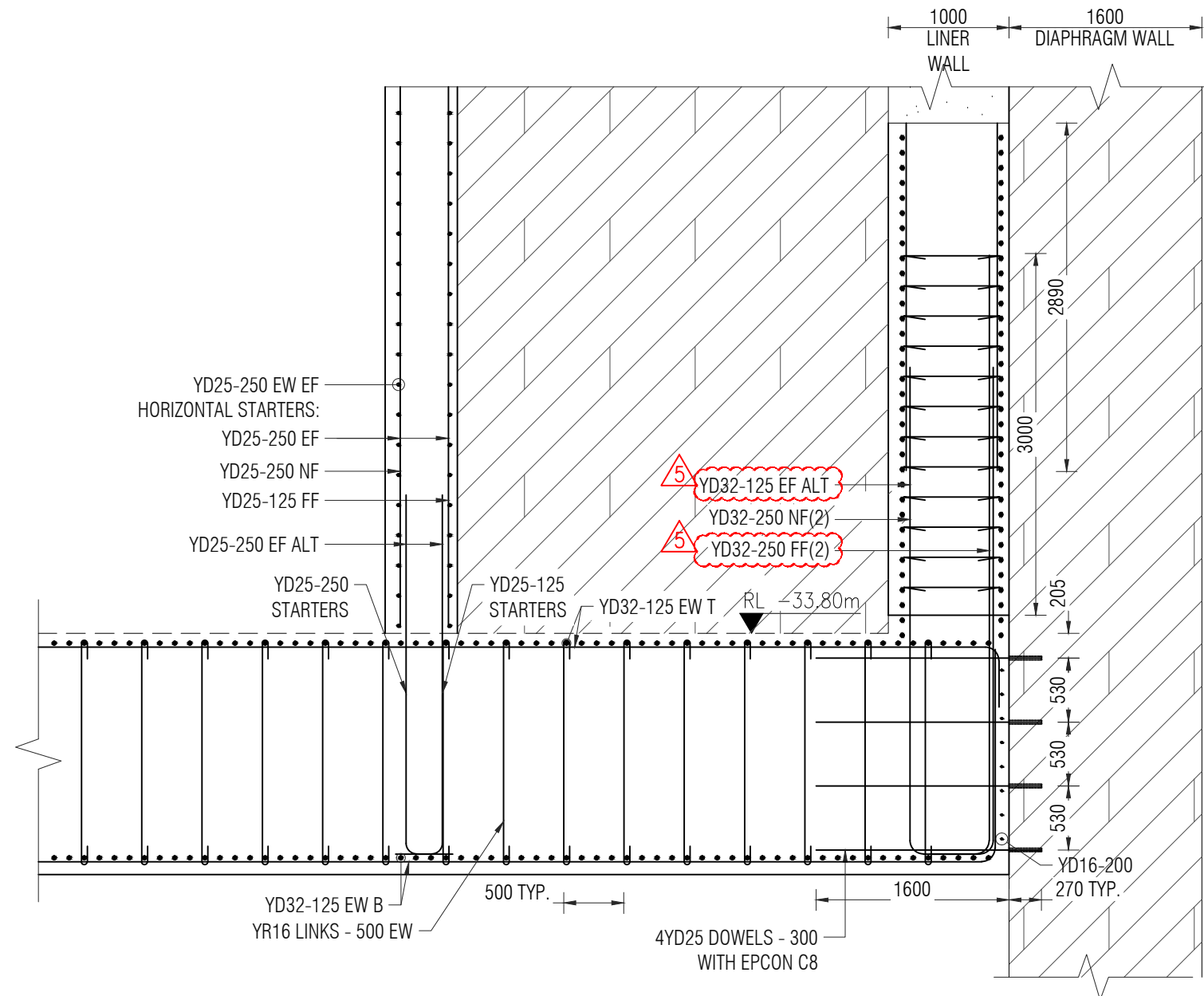
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Designed:	-				
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Drawn:	NG				
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Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	PIPE SUPPORT CP DETAILS & SECTION SHEET (04 OF 06)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-06
Rev.	5



SECTION 10
SCALE: 1:50
ST-03



SECTION 11
SCALE: 1:50
ST-03

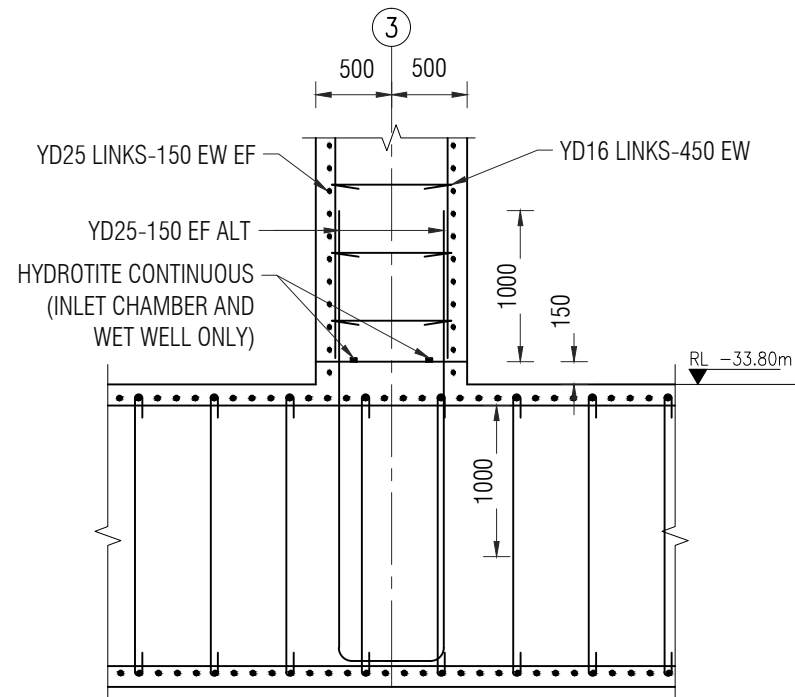
Rev.	Date	Revision Details	By	Ver.	App.
5	18/09/2020	REVISED AS PER COMMENTS	-	-	-
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3	01/09/2020	REVISED AS PER COMMENTS	-	-	-
2	17/08/2020	REVISED AS PER COMMENTS	-	-	-
1	14/08/2020	REVISED AS PER COMMENTS	-	-	-
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



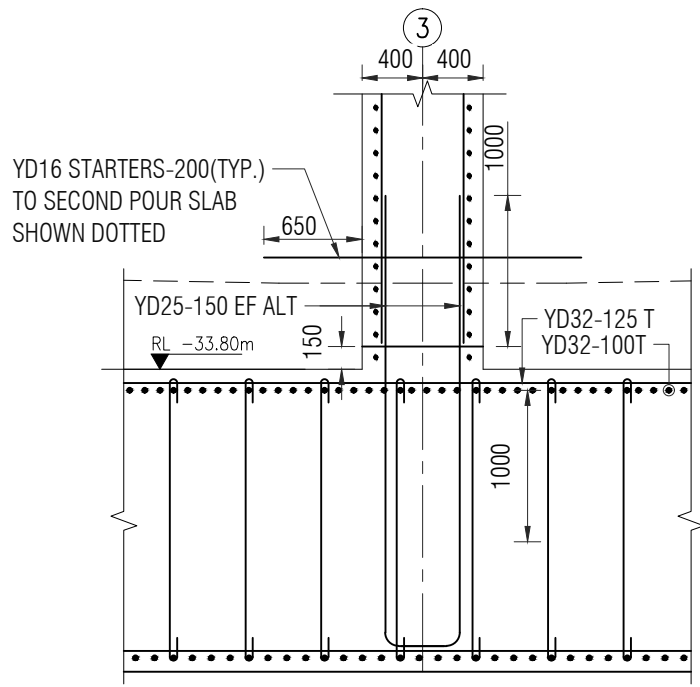
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Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	PIPE SUPPORT CP DETAILS & SECTION SHEET (05 OF 06)

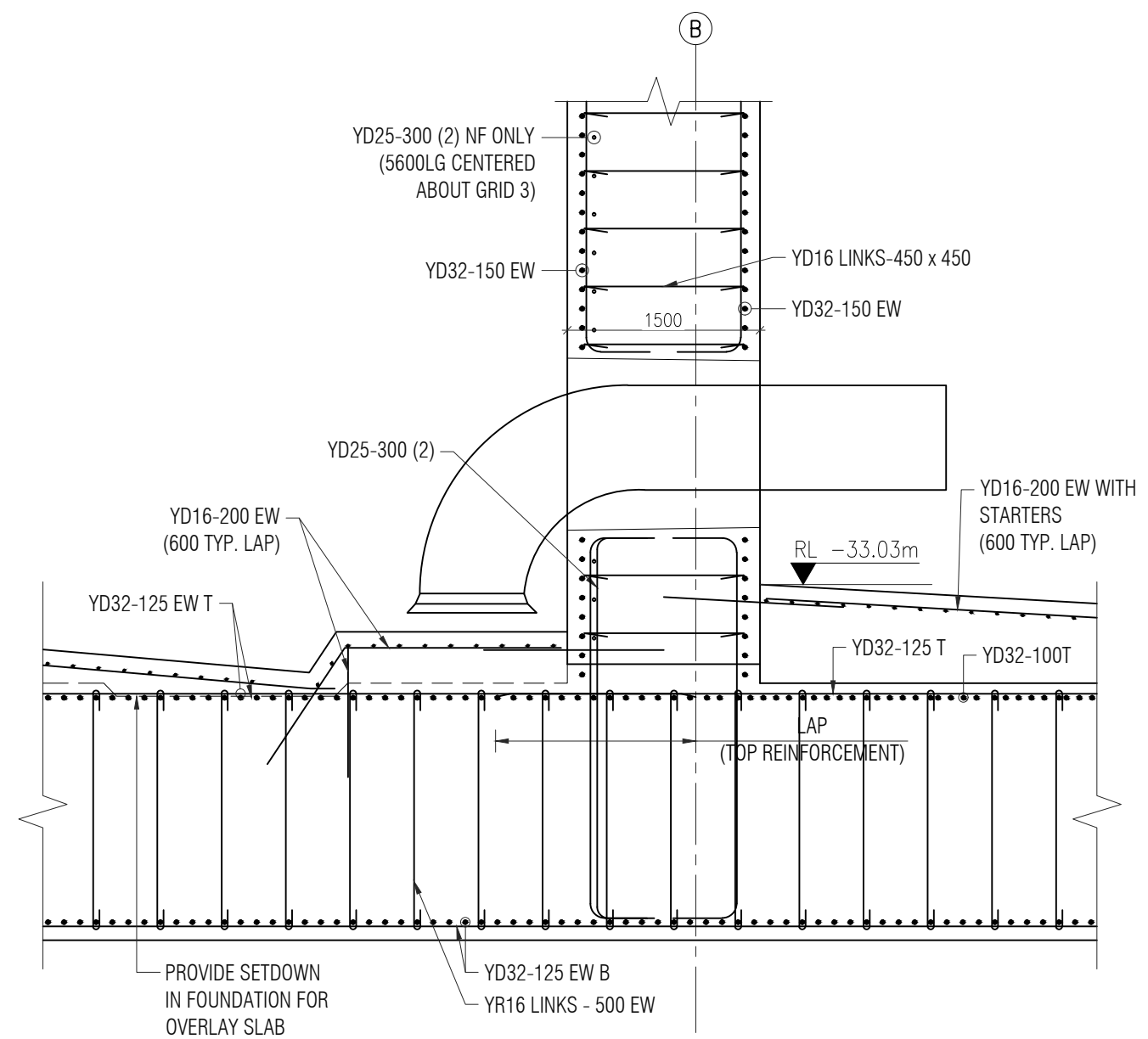
Project No.	6661
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Drawing No.	ST-06
Rev.	5



SECTION 12
SCALE: 1:50
ST-03



SECTION 13
SCALE: 1:50
ST-03



SECTION 14
SCALE: 1:50
ST-03

Rev.	Date	Revision Details	By	Ver.	App.
4	15/09/2020	REVISED AS PER COMMENTS	-	-	-
3	01/09/2020	REVISED AS PER COMMENTS	-	-	-
2	17/08/2020	REVISED AS PER COMMENTS	-	-	-
1	14/08/2020	REVISED AS PER COMMENTS	-	-	-
0	06/08/2020	ISSUED FOR APPROVAL	-	-	-



Project Director:	-	Initials:		Date:	
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Design Review:	-				
Drawn:	NG				
Drafting Check:	HP				

Project:	PS 86 CENTRAL INTERCEPTOR MANGERE PUMPING STATION
Drawing Title:	PIPE SUPPORT CP DETAILS & SECTION SHEET (06 OF 06)

Project No.	6661
Scale:	AS SHOWN original sheet size A3
Drawing No.	ST-06
Rev.	4