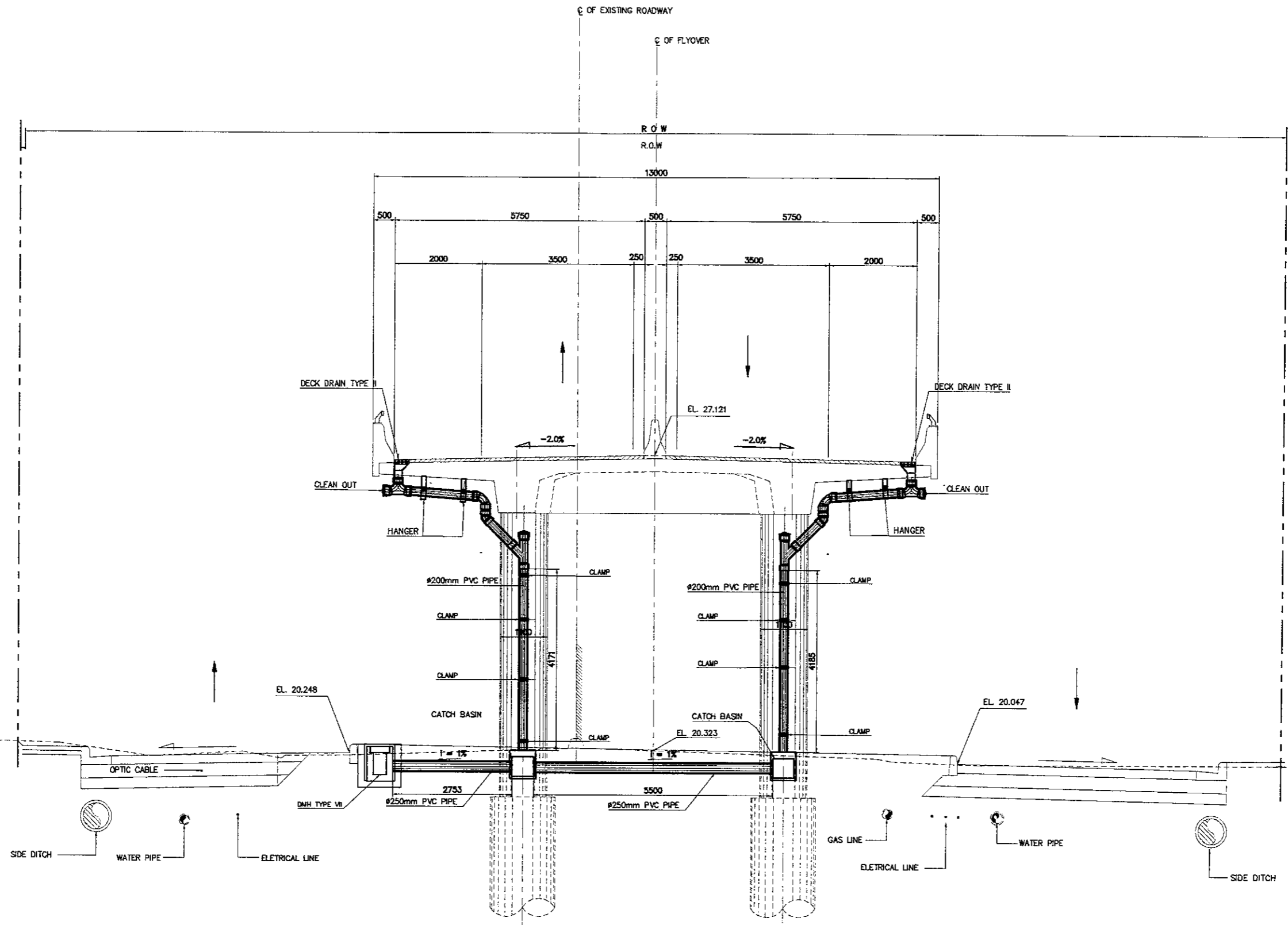
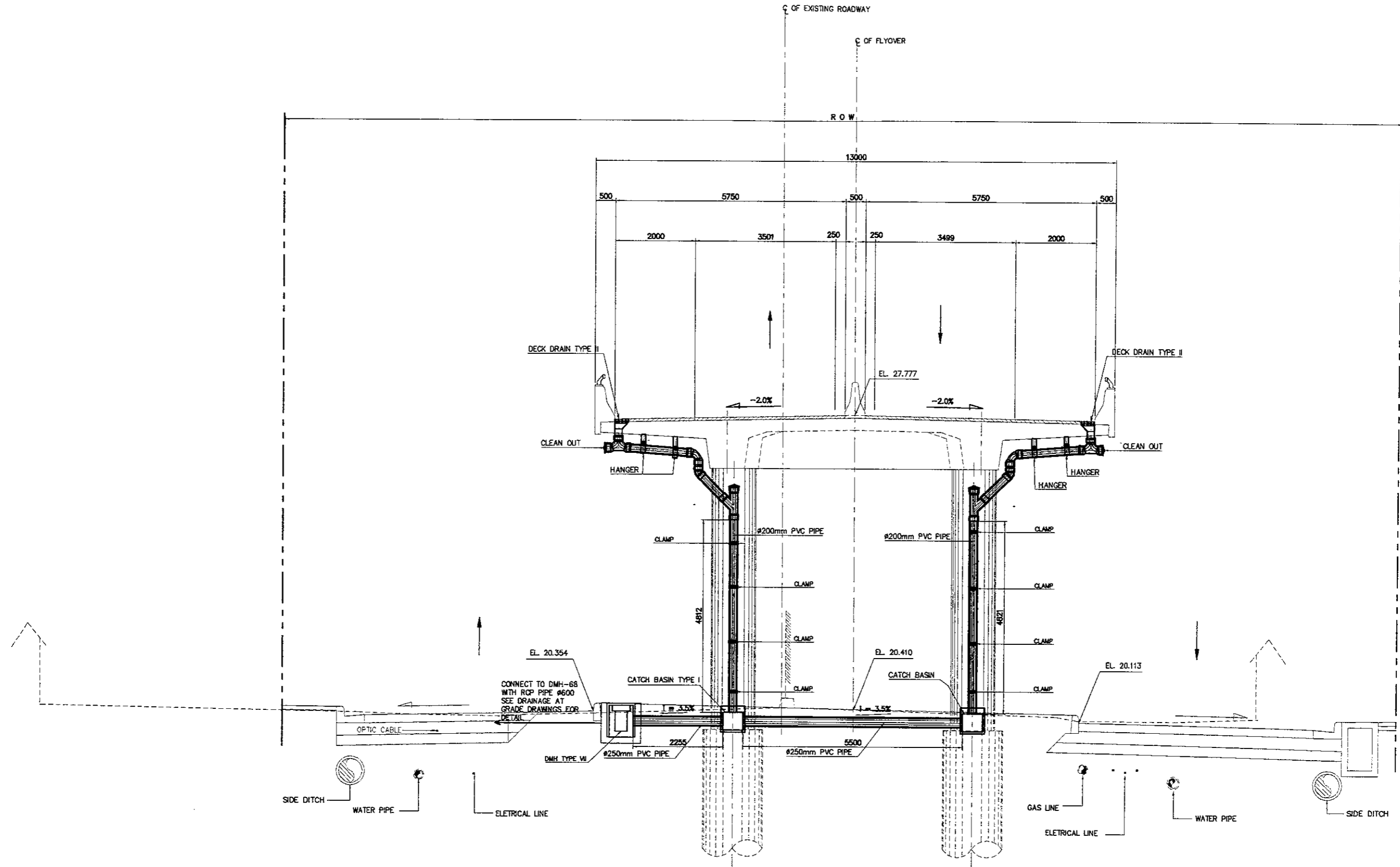


DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

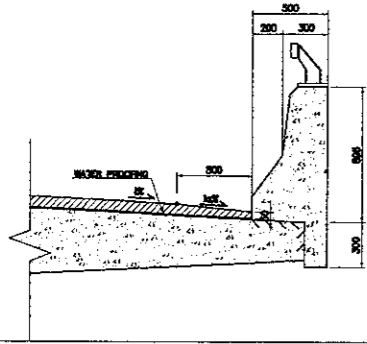


1 P1 SECTION (STA. 0 + 419.00)
 SCALE 1:100

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

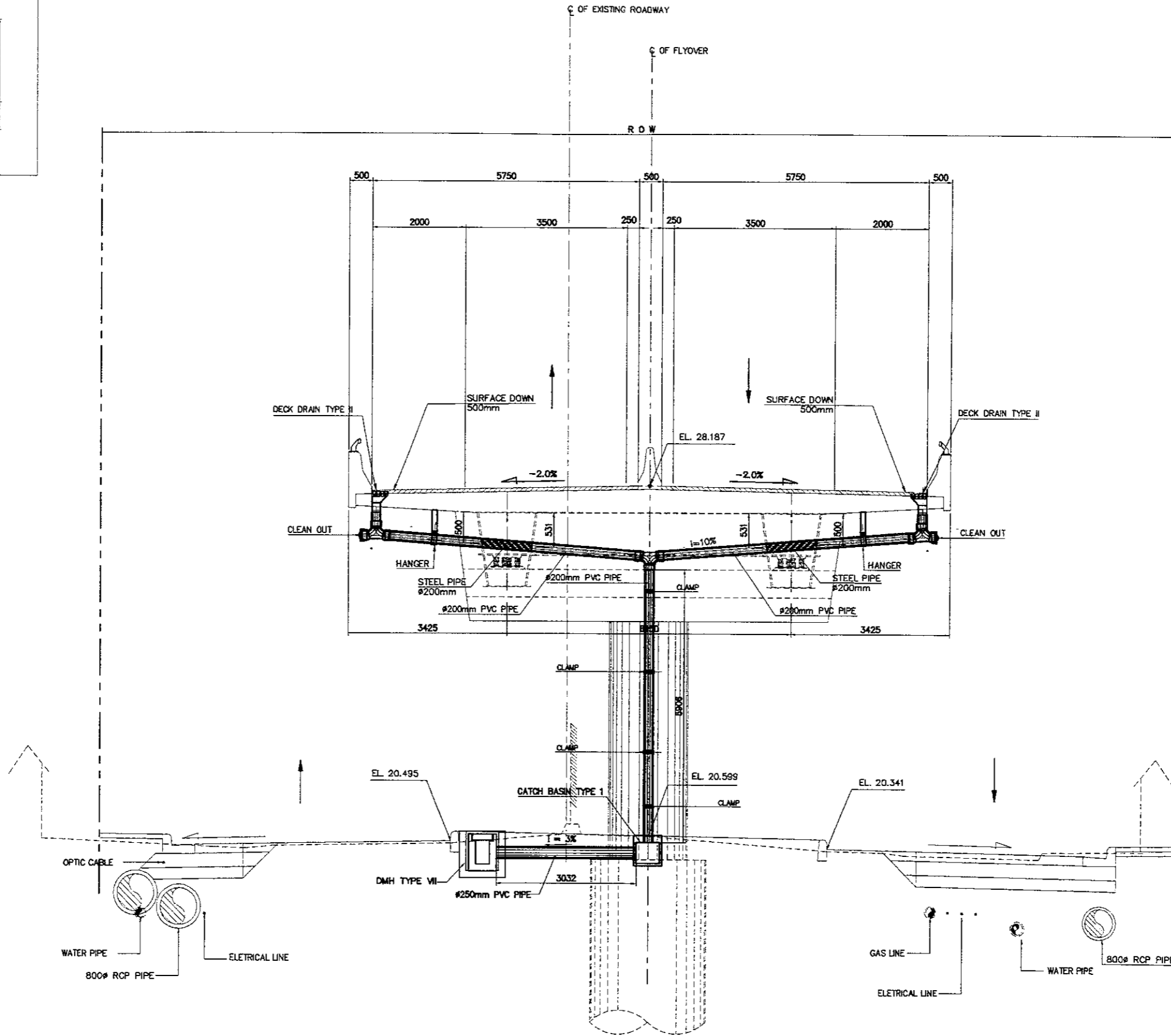


1 P2 SECTION (STA. 0 + 439.00)
 SCALE 1:100



i (%)	io (%)
1	6
2	7
3	8
4	9
5	10

DETAIL OF SURFACE DOWN
 SCALE 1:50



1 P3 SECTION (STA. 0 + 459.00)
 1:100



JAPAN INTERNATIONAL COOPERATION AGENCY
K KATAHIRA & ENGINEERS
E INTERNATIONAL

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF HIGHWAYS

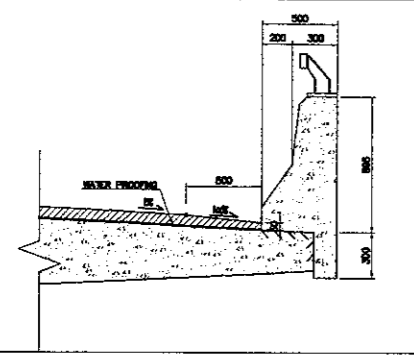
APPROVED BY: Ir. HERRY VAZA M.Eng.Sc
 NIP. : 110038400

PROJECT AND LOCATION :
 DETAILED DESIGN STUDY OF
 NORTH JAVA CORRIDOR FLYOVER PROJECT
 BALARAJA FLYOVER - CONTRACT PACKAGE 1
 (MERAK - BALARAJA)
 BANTEN PROVINCE

SCALE :
 1 : 100
 FULL SIZE A3

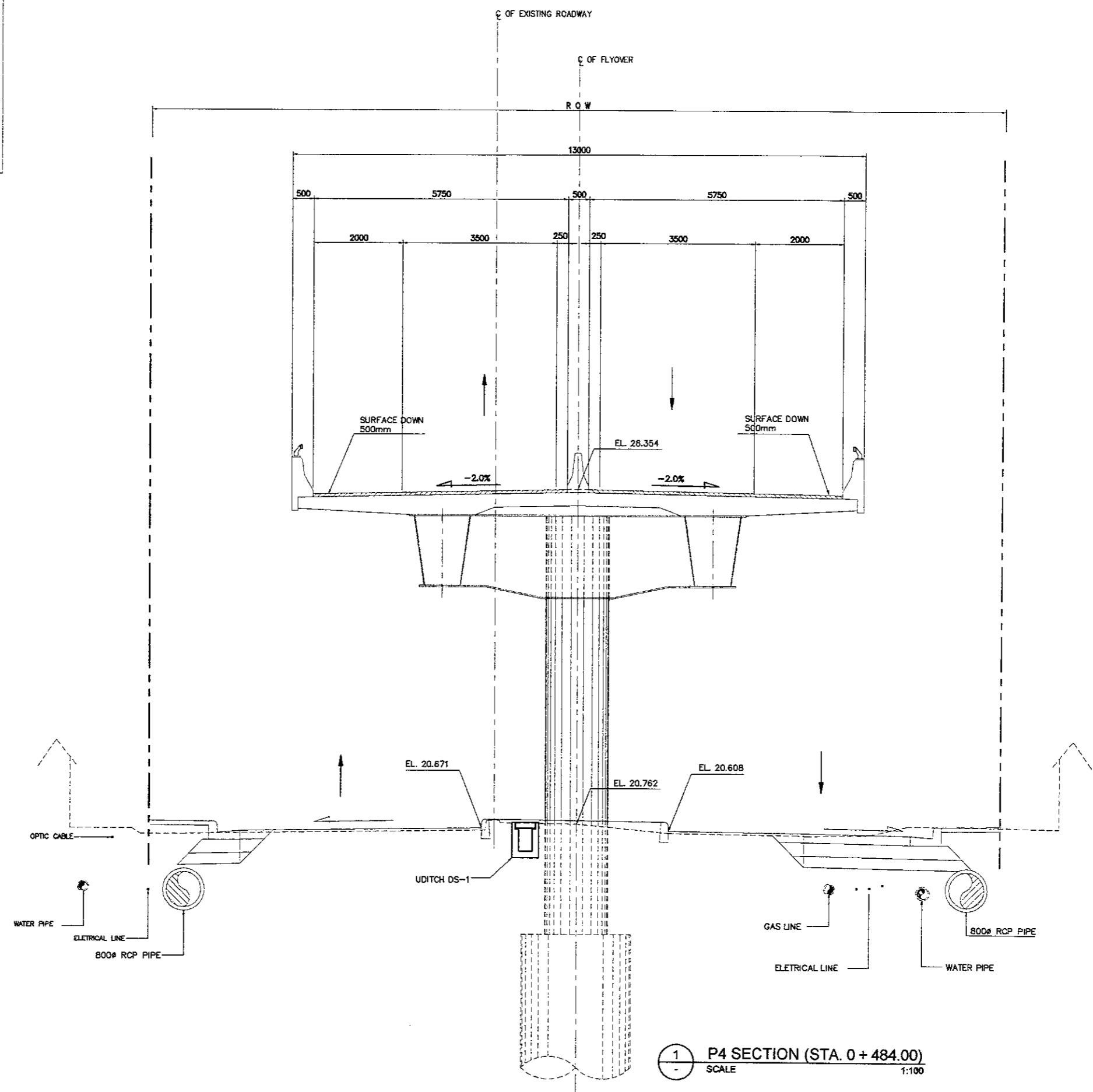
DRAWING TITLE :
 ABUTMENT AND PIER SECTIONS
 SHOWING DOWNSPOUT PIPE
 5 OF 11

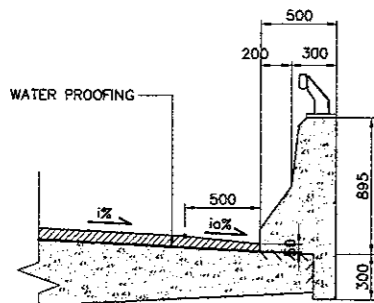
DRAWING NO :
 BDV-014
 SHEET NO :
 14 / 33



i (%)	io (%)
1	6
2	7
3	8
4	9
5	10

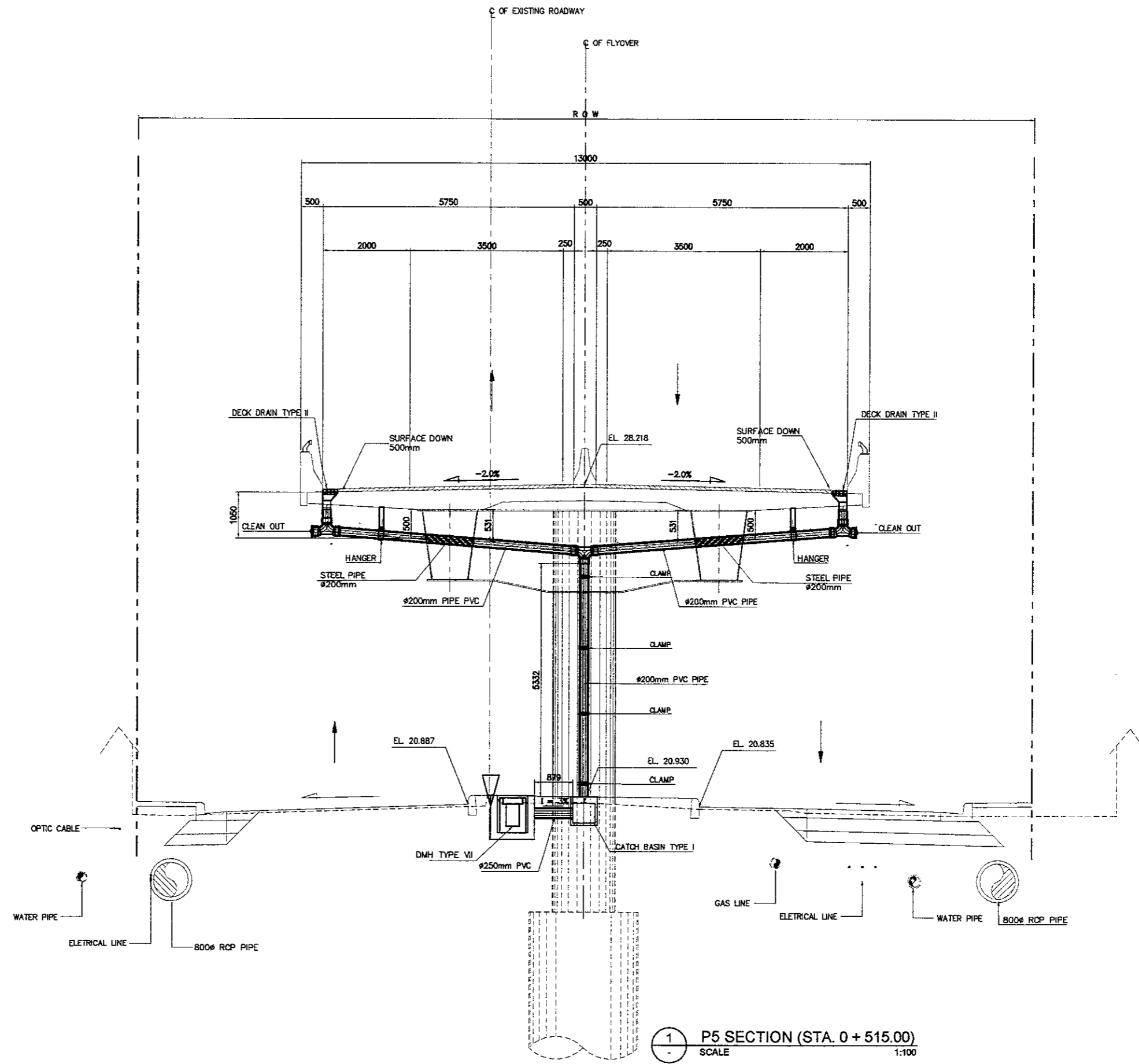
DETAIL OF SURFACE DOWN
 SCALE 1:50



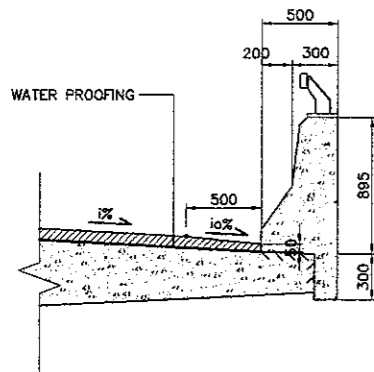


i (%)	io (%)
1	6
2	7
3	8
4	9
5	10

DETAIL OF SURFACE DOWN
 SCALE 1:50

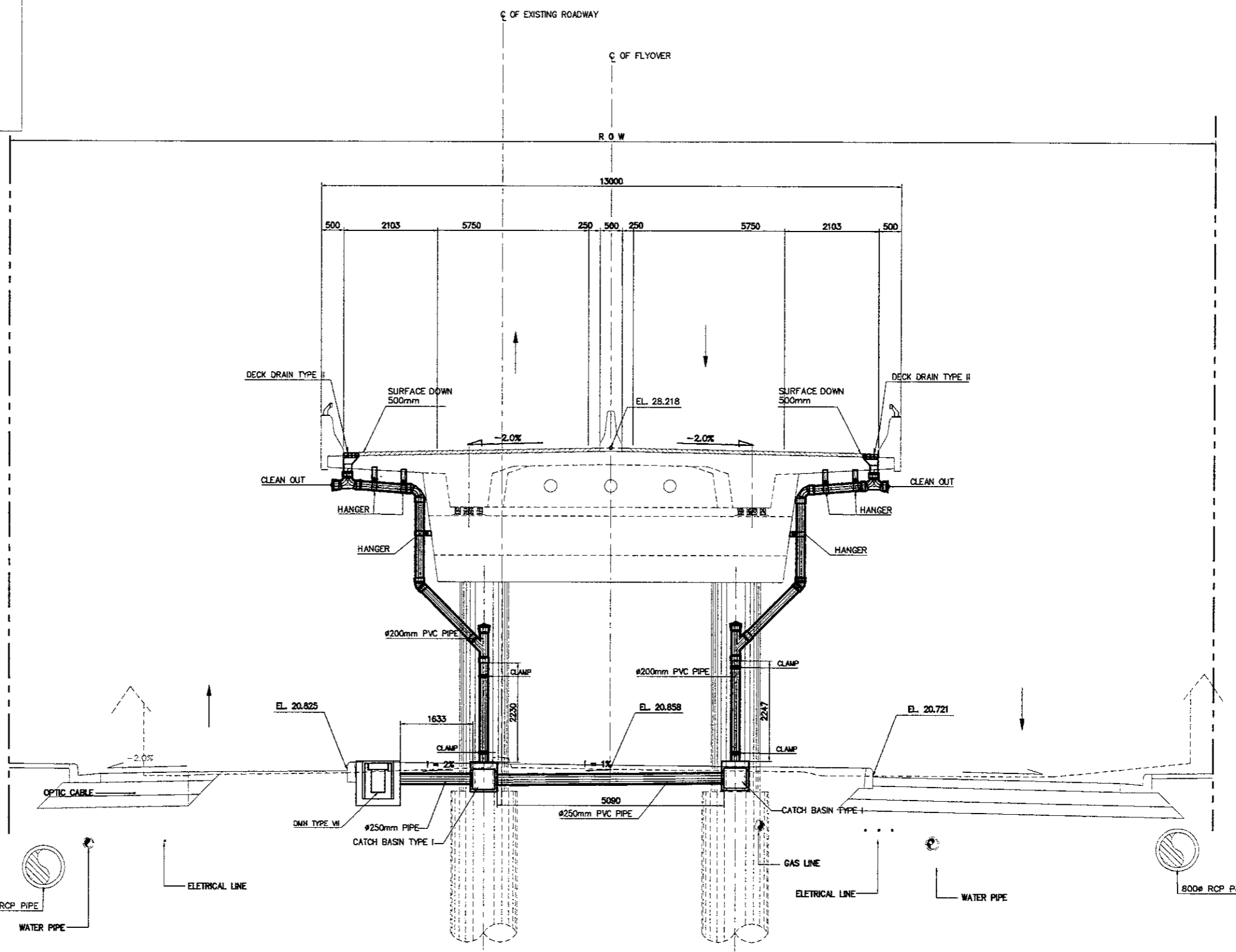


1 P5 SECTION (STA. 0 + 515.00)
 SCALE 1:100



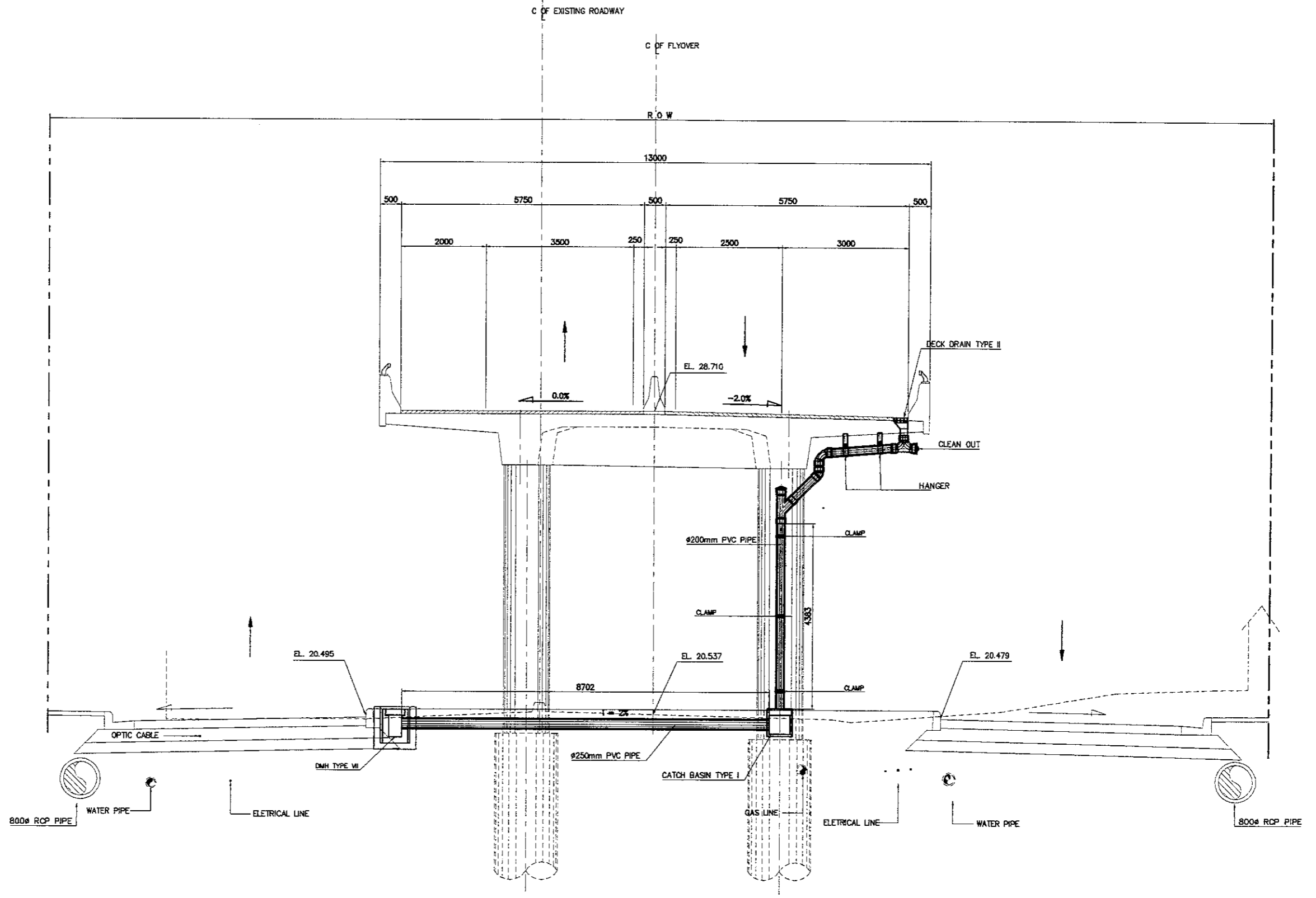
i (%)	io (%)
1	6
2	7
3	8
4	9
5	10

DETAIL OF SURFACE DOWN
 SCALE 1:50



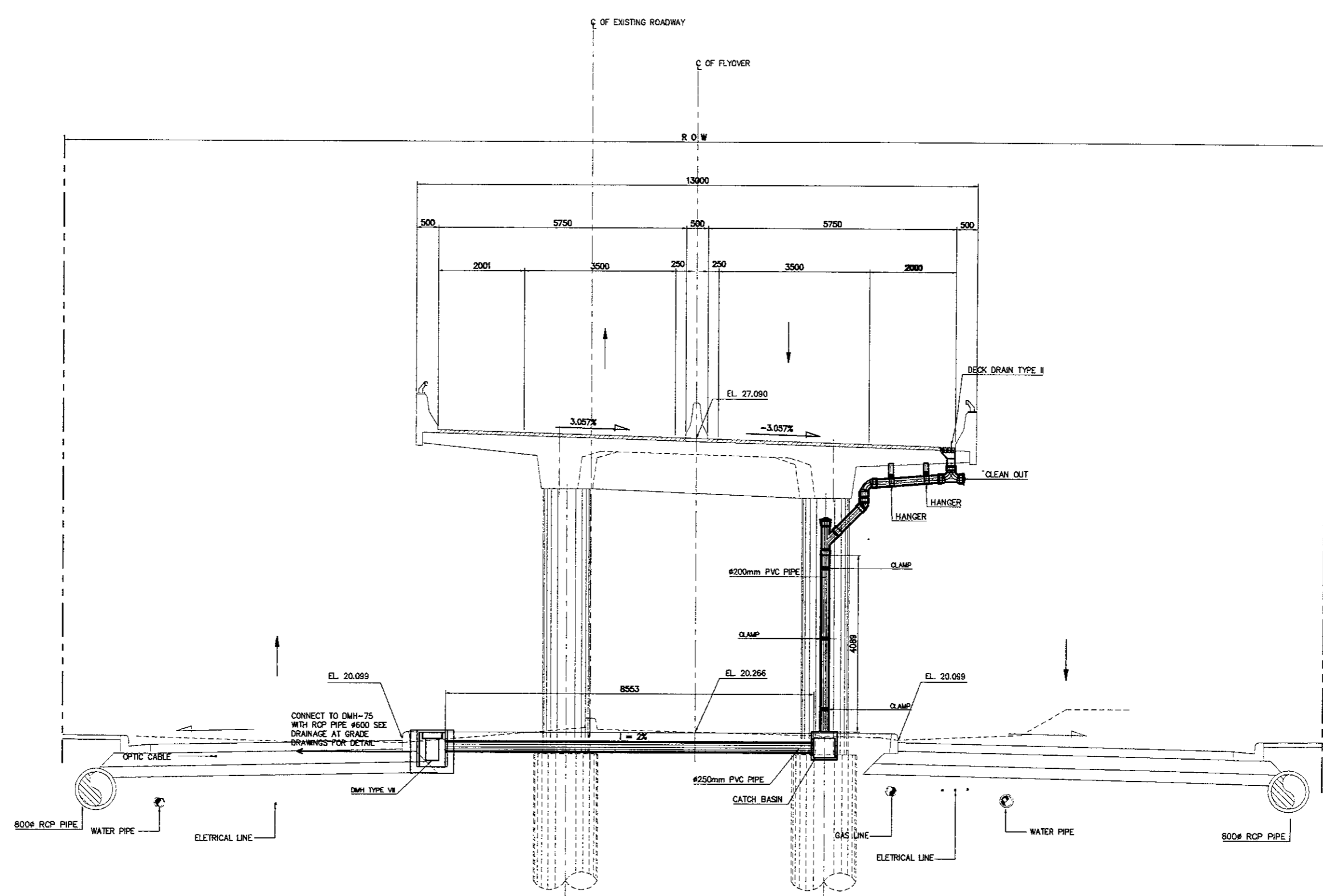
1 P6 SECTION (STA. 0 + 540.00)
 SCALE 1:100

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



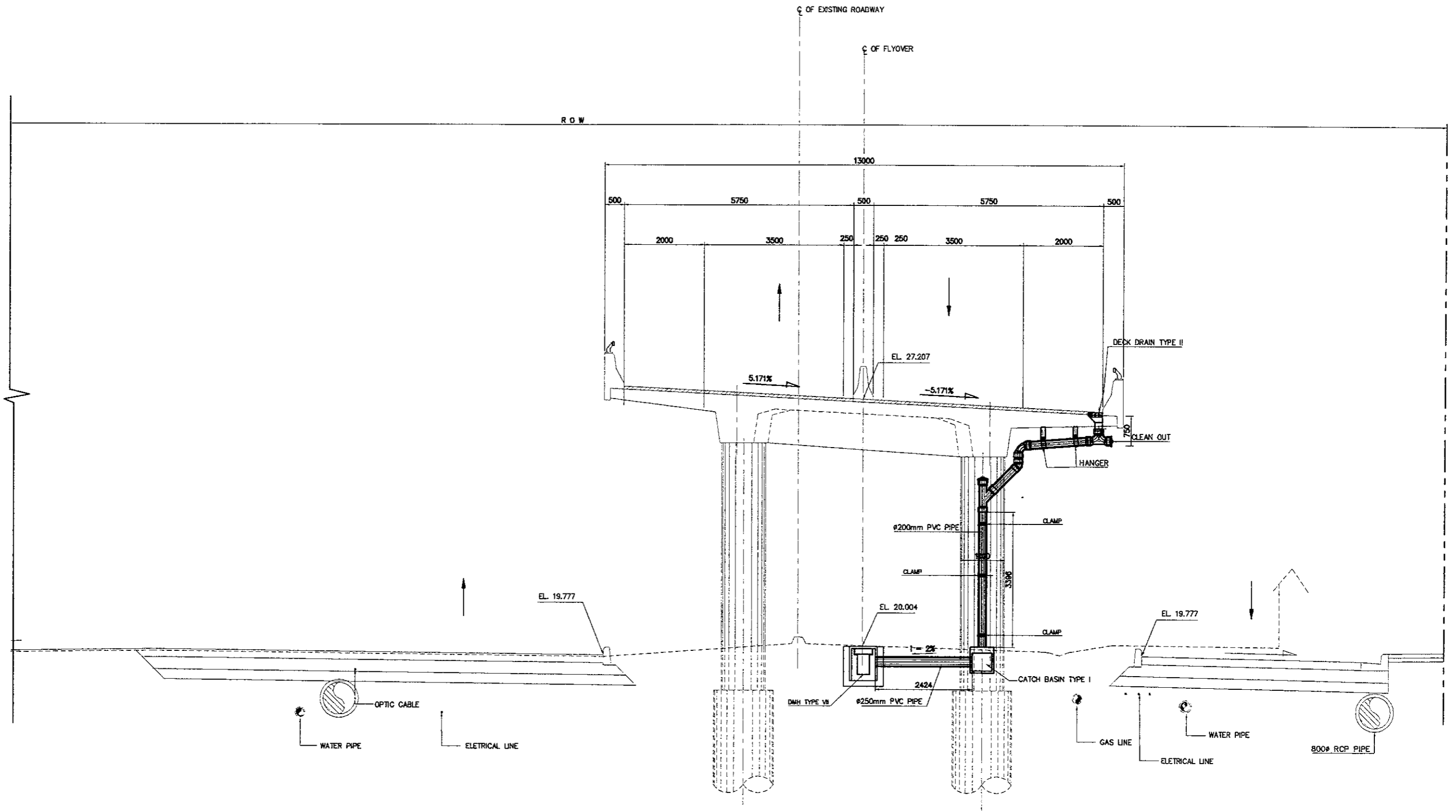
1 P7 SECTION (STA. 0 + 560.00)
 1:100

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



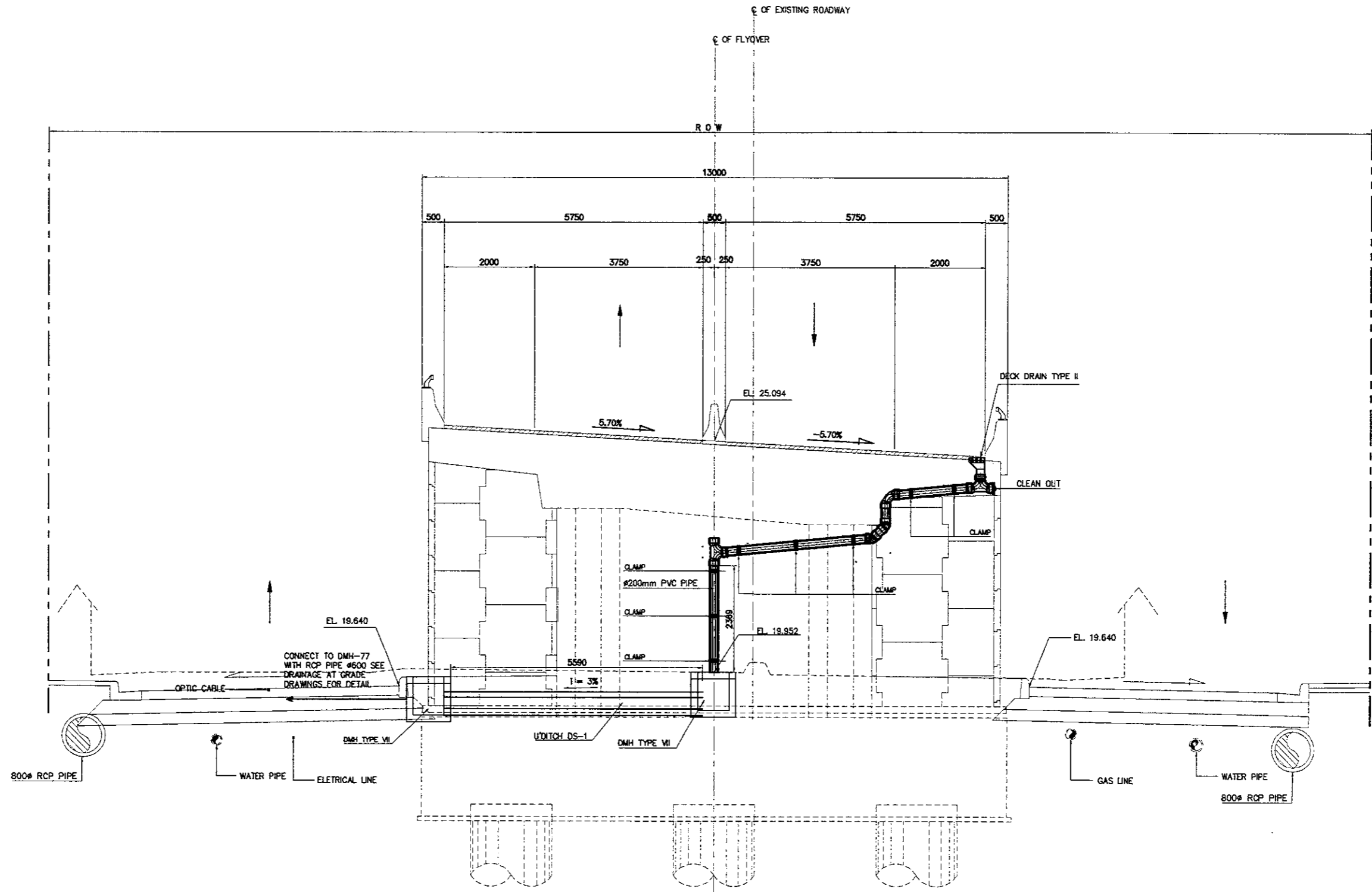
1 P8 SECTION (STA. 0 + 580. 00)
 SCALE 1:100

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

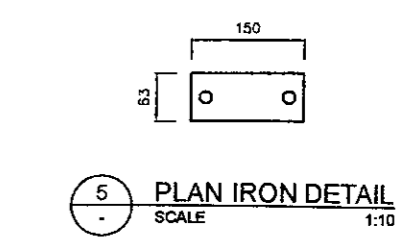
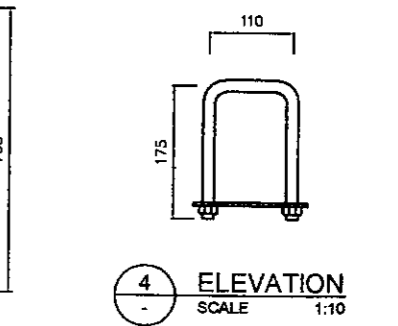
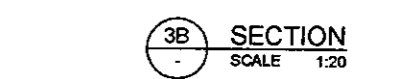
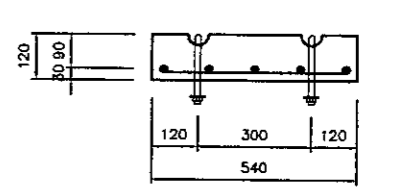
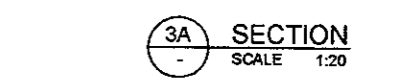
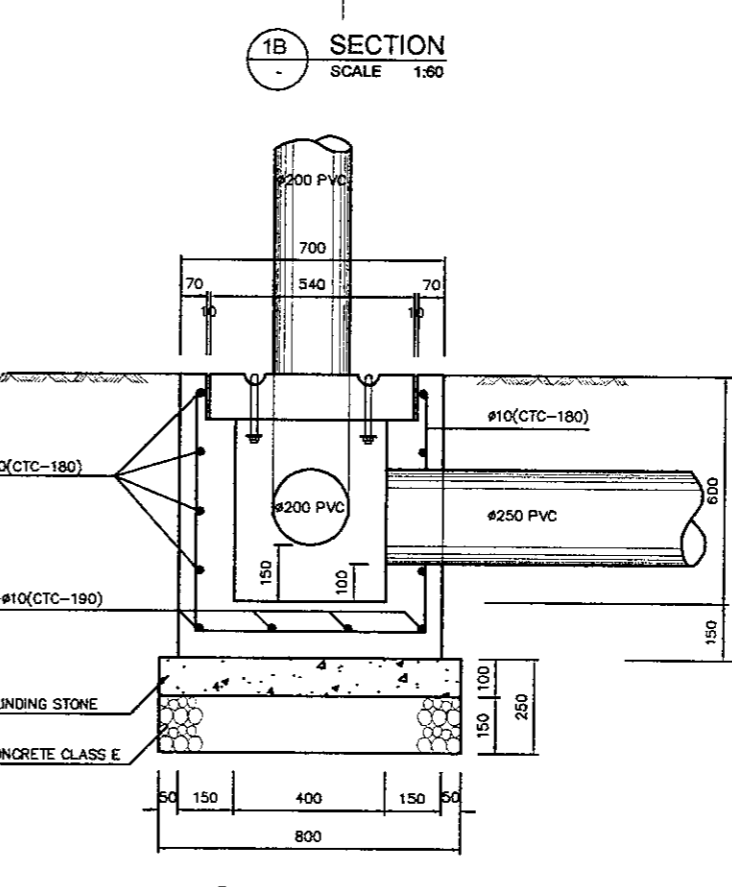
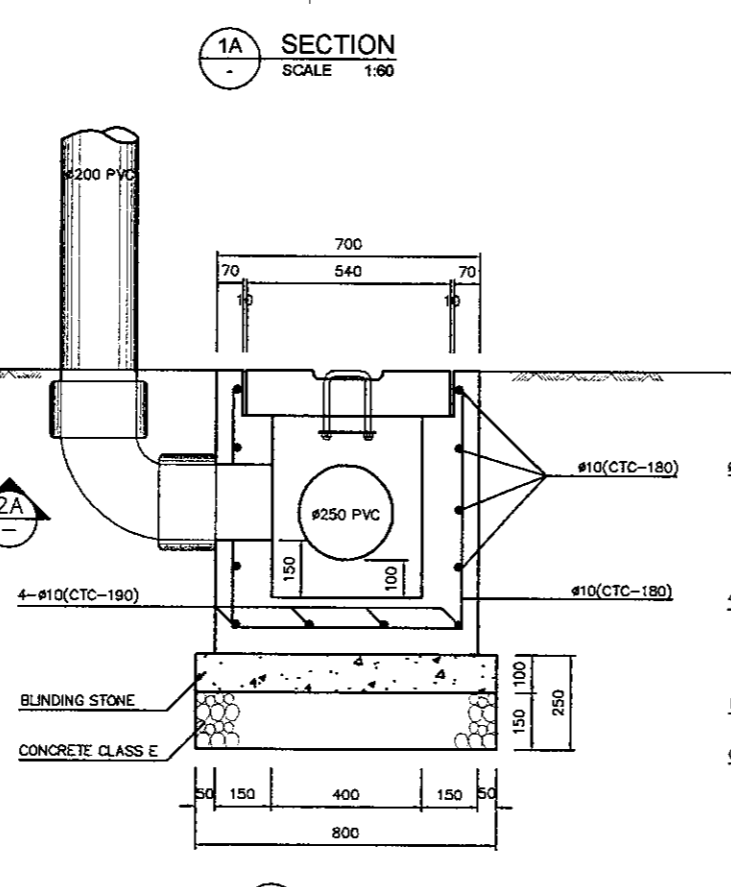
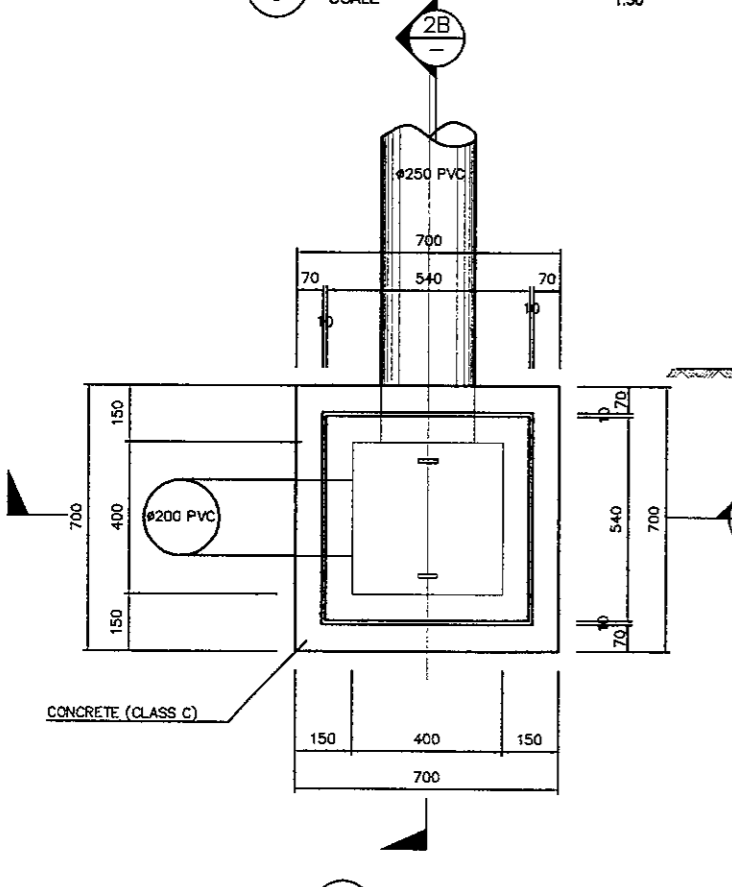
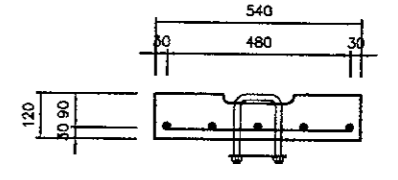
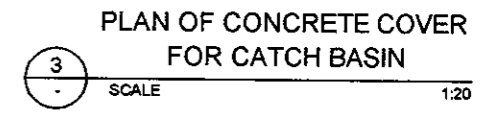
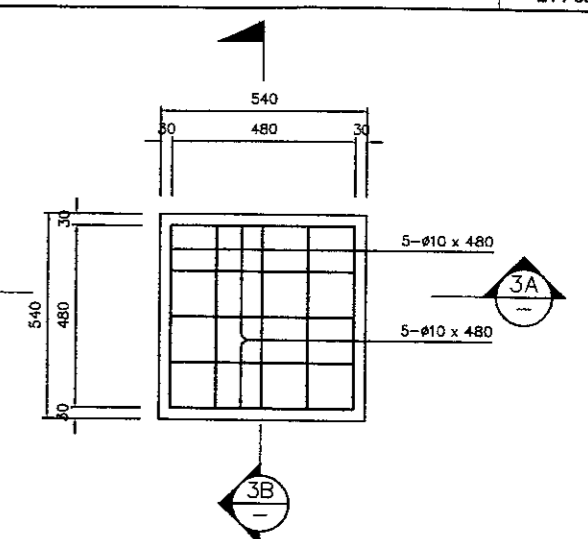
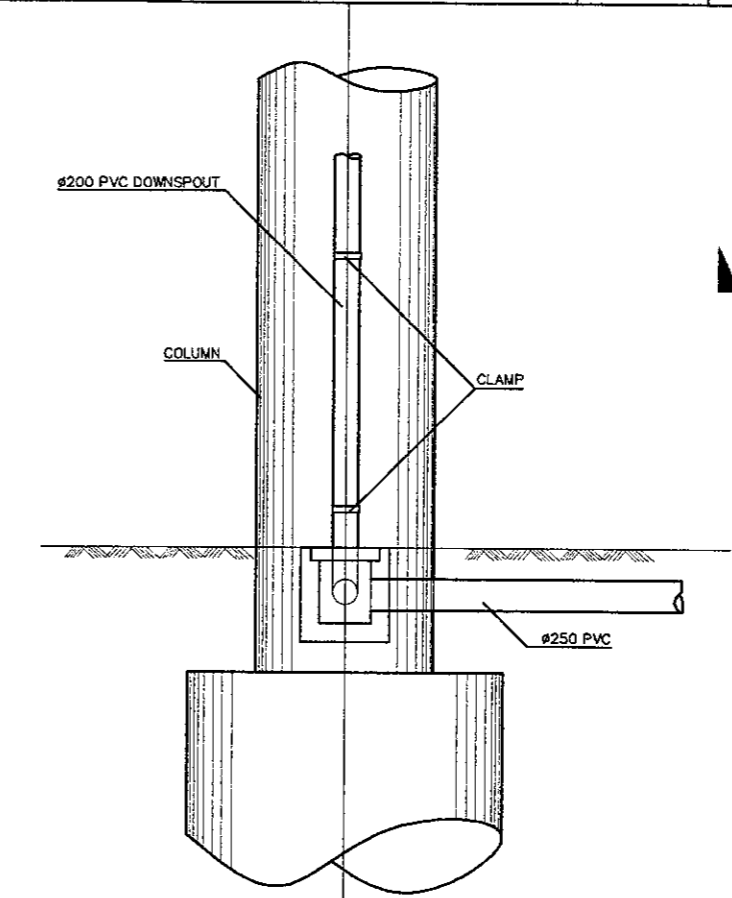
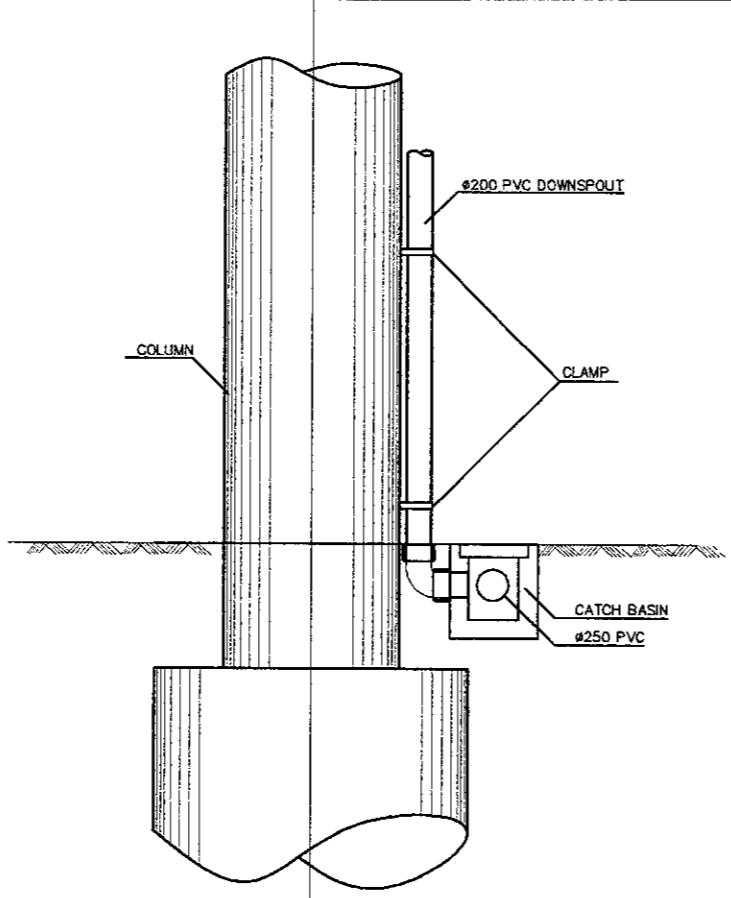
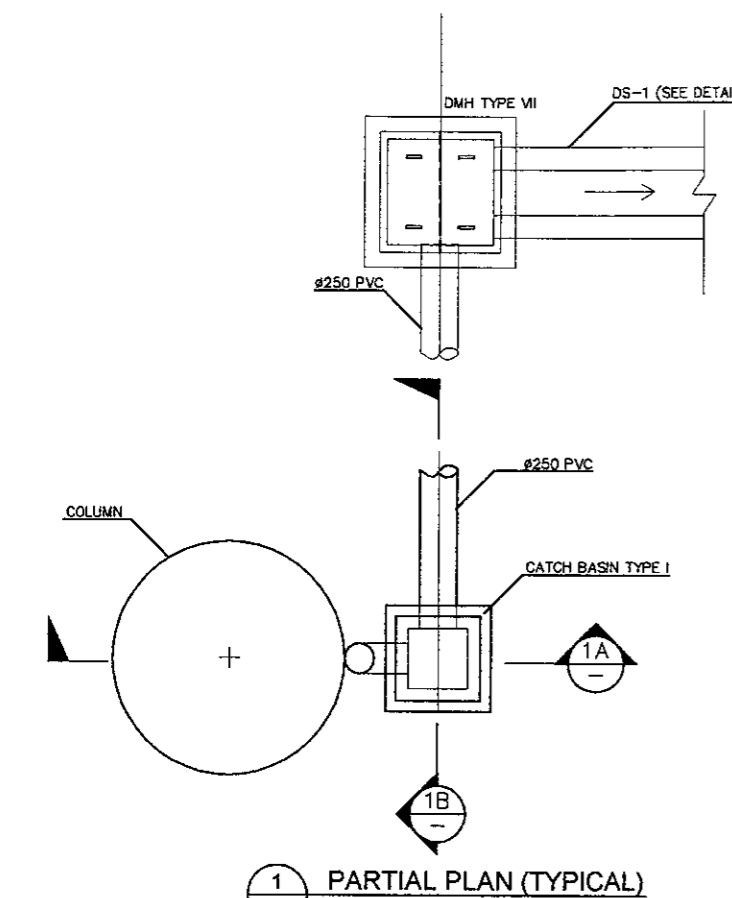


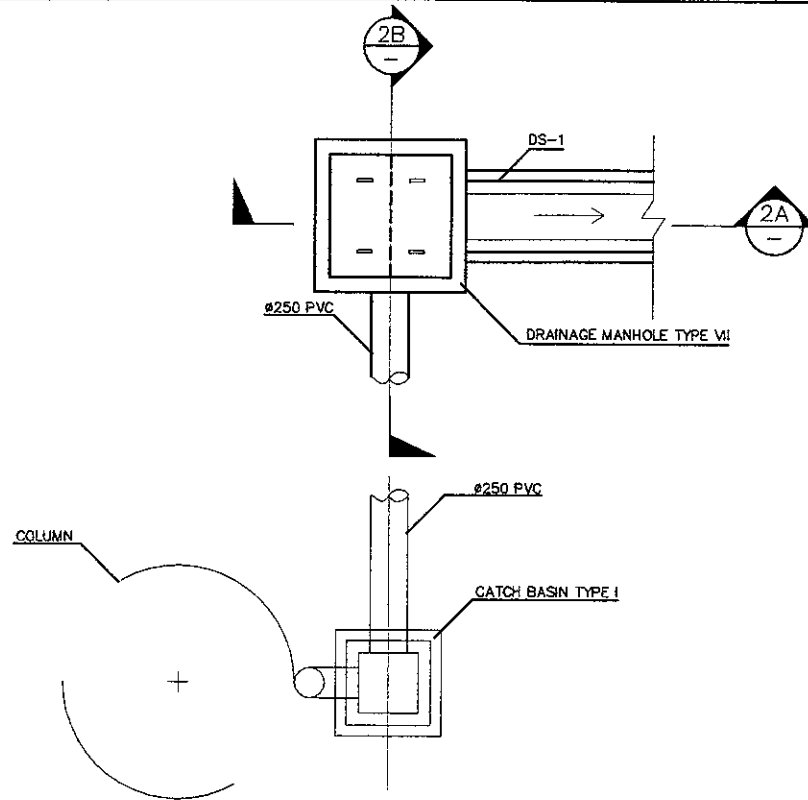
1 P9 SECTION (STA. 0 + 600.00)
 SCALE 1:100

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

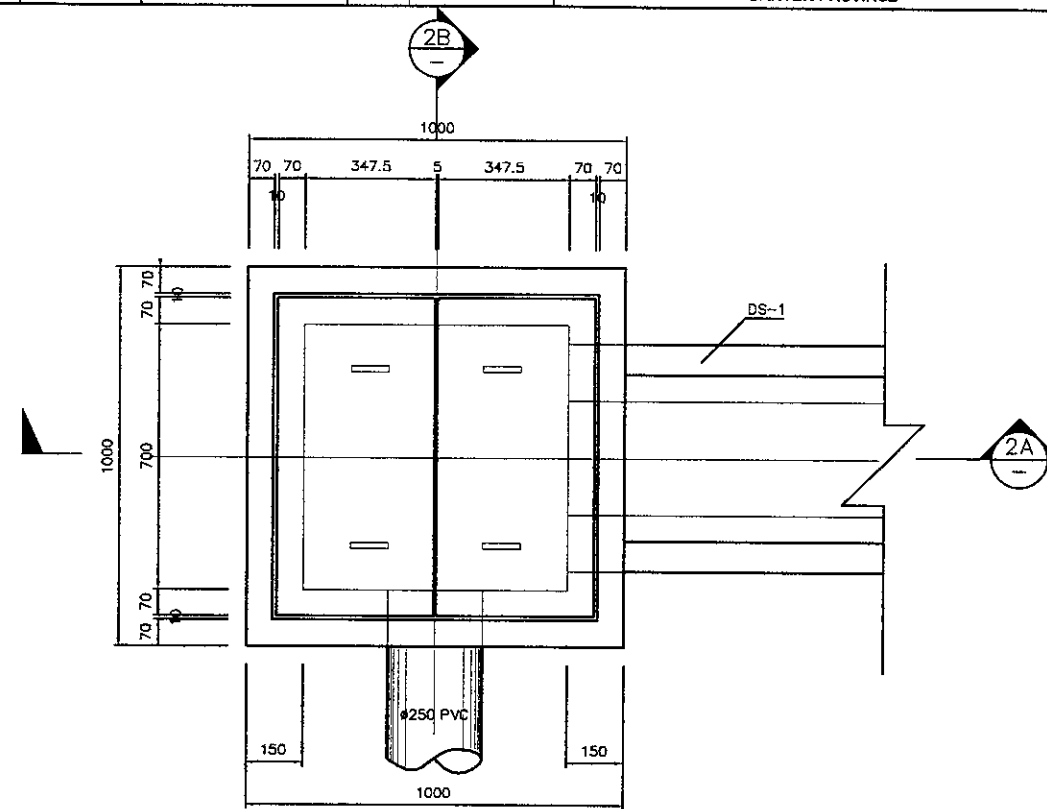


1 A2 SECTION (STA. 0 + 620.00)
 SCALE 1:100

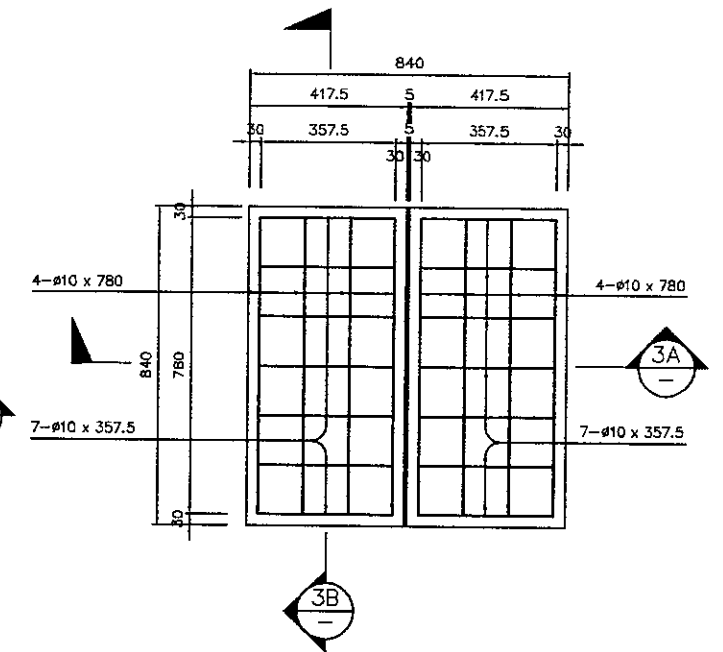




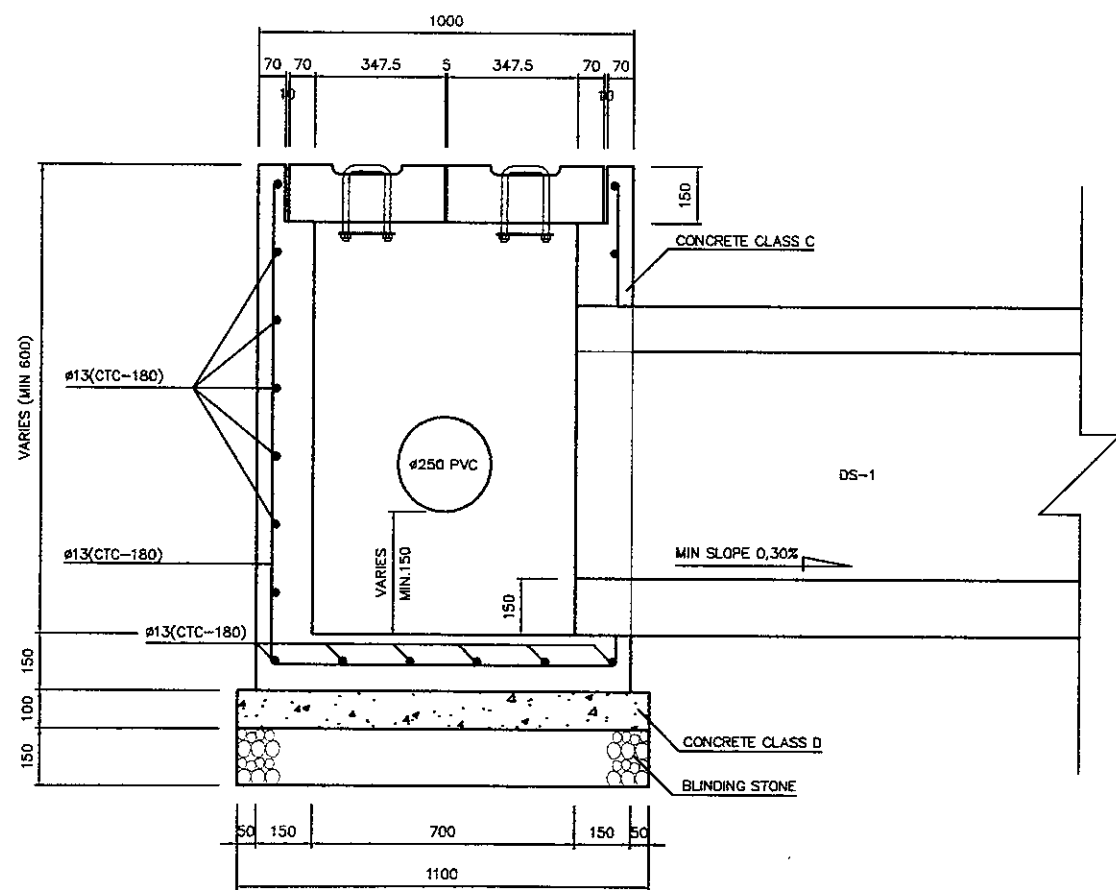
1 PARTIAL PLAN (TYPICAL)
 SCALE 1:50



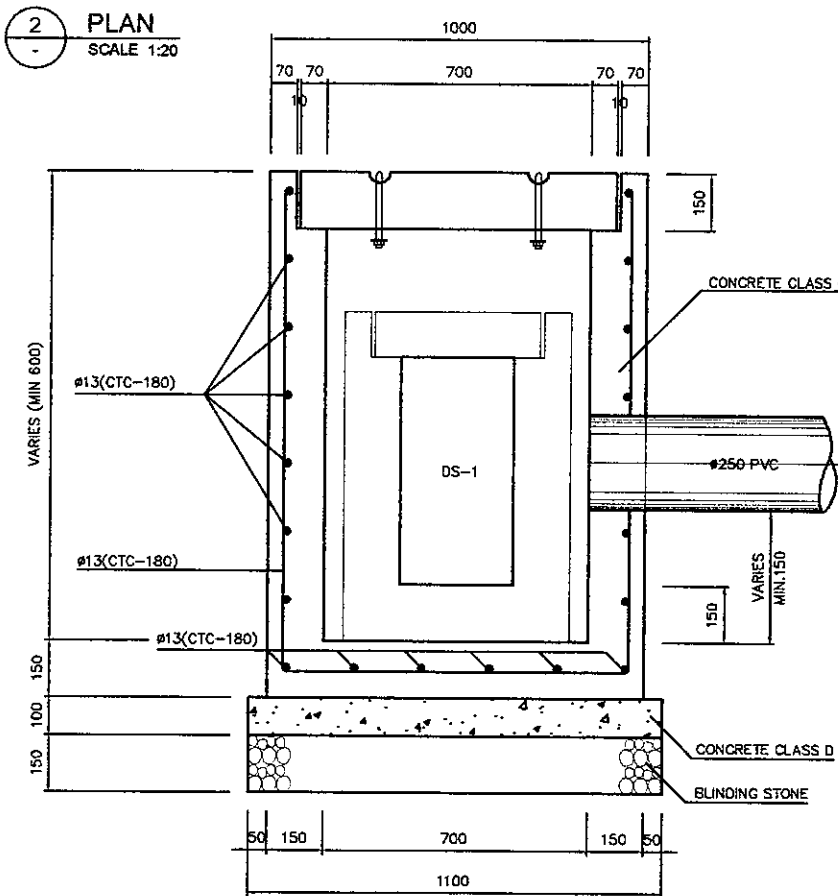
2 PLAN
 SCALE 1:20



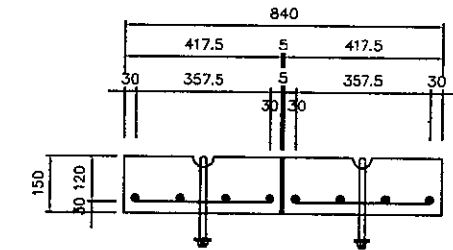
3 PLAN
 SCALE 1:20



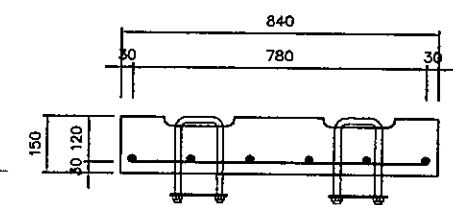
2A SECTION
 SCALE 1:20



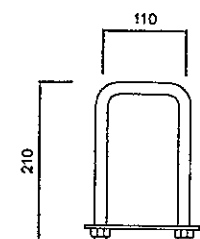
2B SECTION
 SCALE 1:20



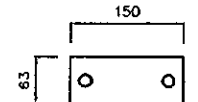
3A SECTION
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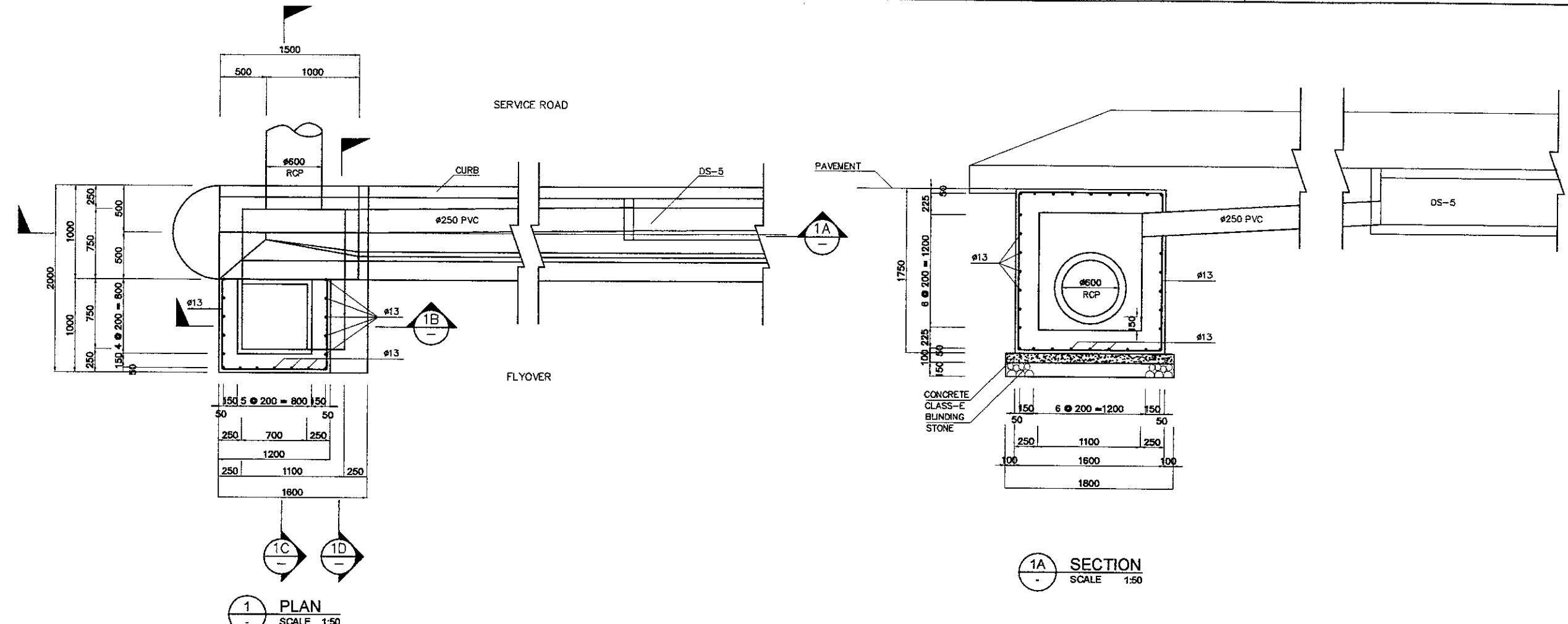
3B SECTION
 SCALE 1:20



3C ELEVATION
 SCALE 1:10

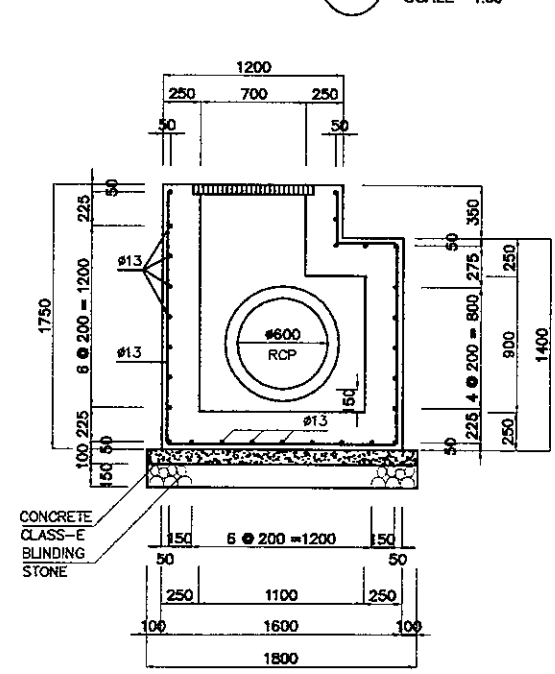


3D PLAN IRON DETAIL
 SCALE 1:10

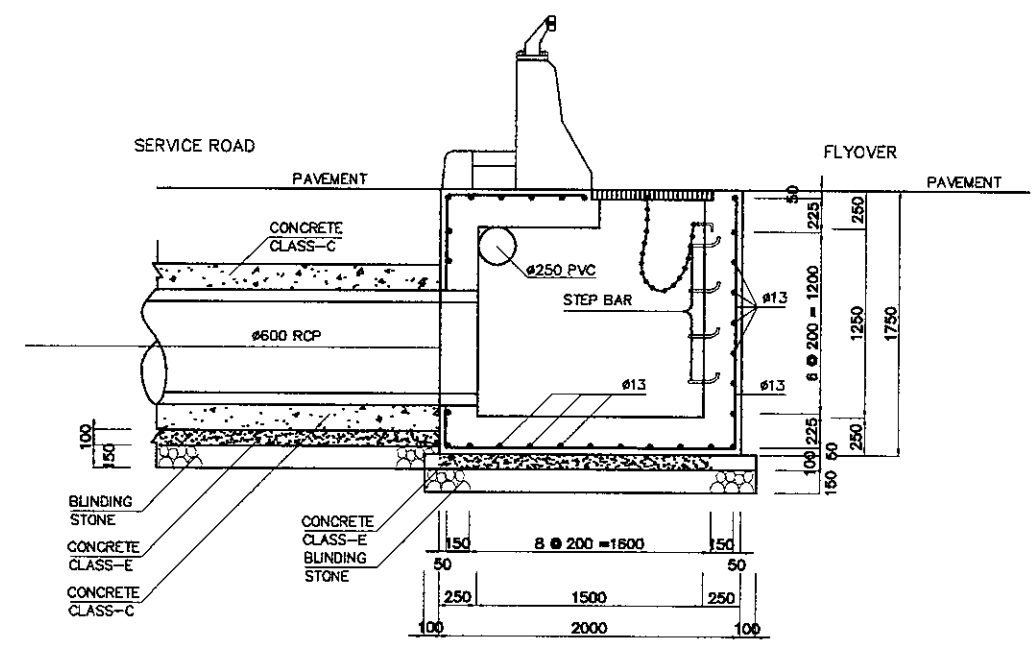


1 PLAN
 SCALE 1:50

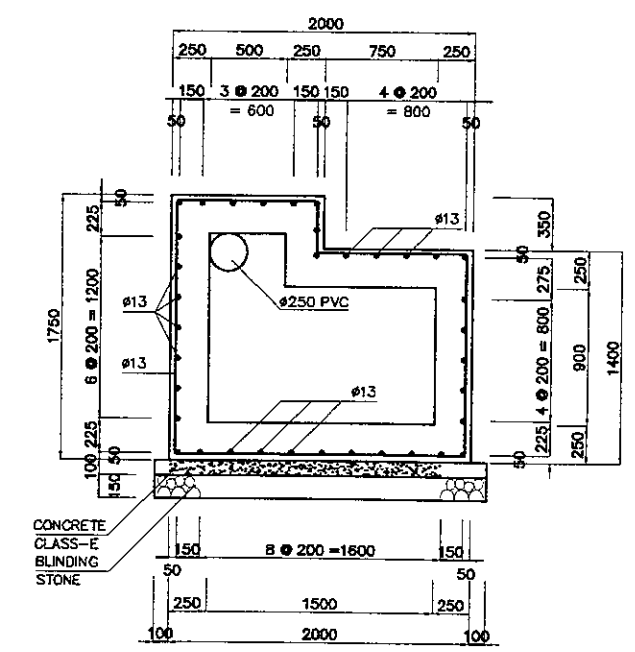
1A SECTION
 SCALE 1:50



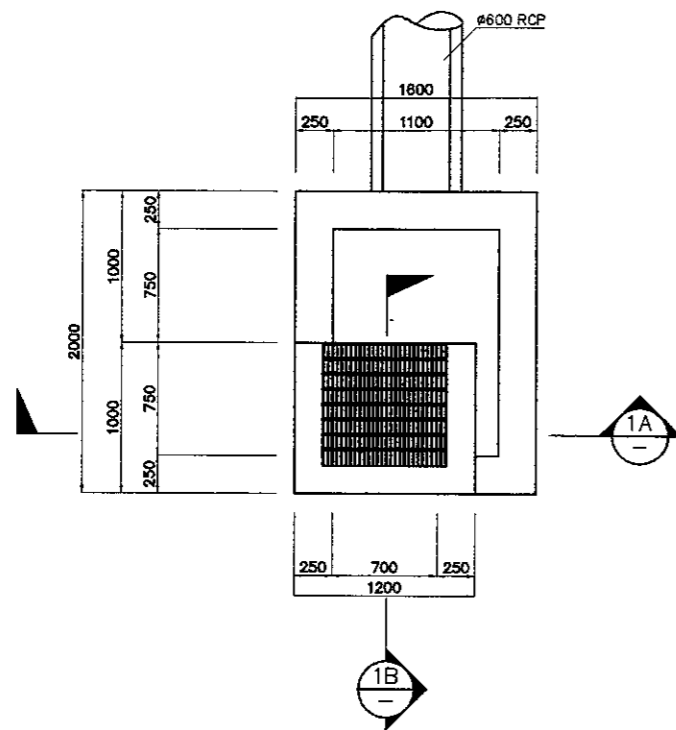
1B SECTION
 SCALE 1:50



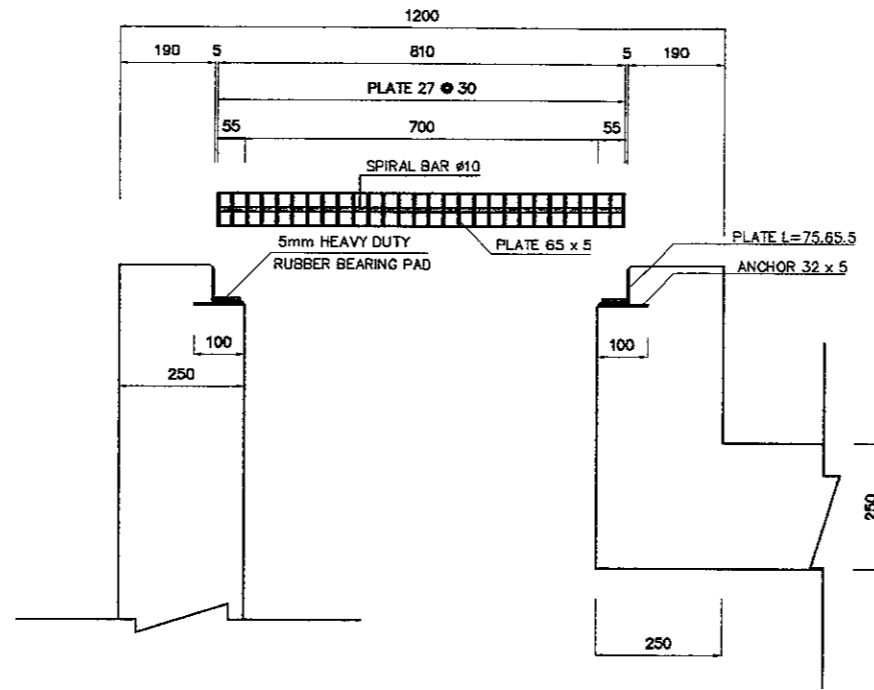
1C SECTION
 SCALE 1:50



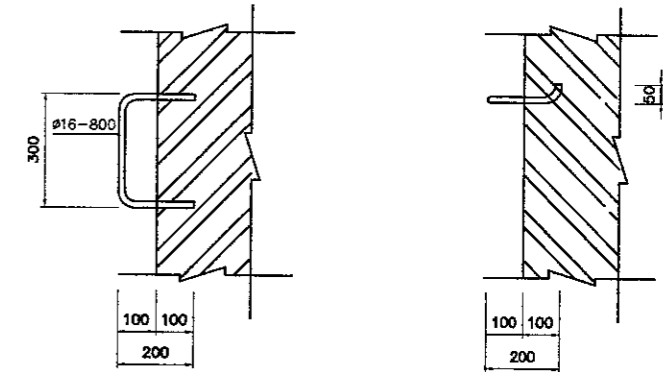
1D SECTION
 SCALE 1:50



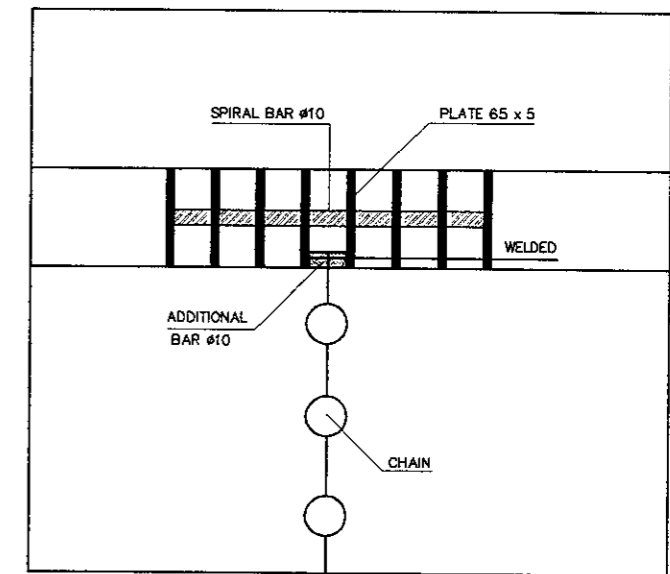
1 PLAN
 SCALE 1:50



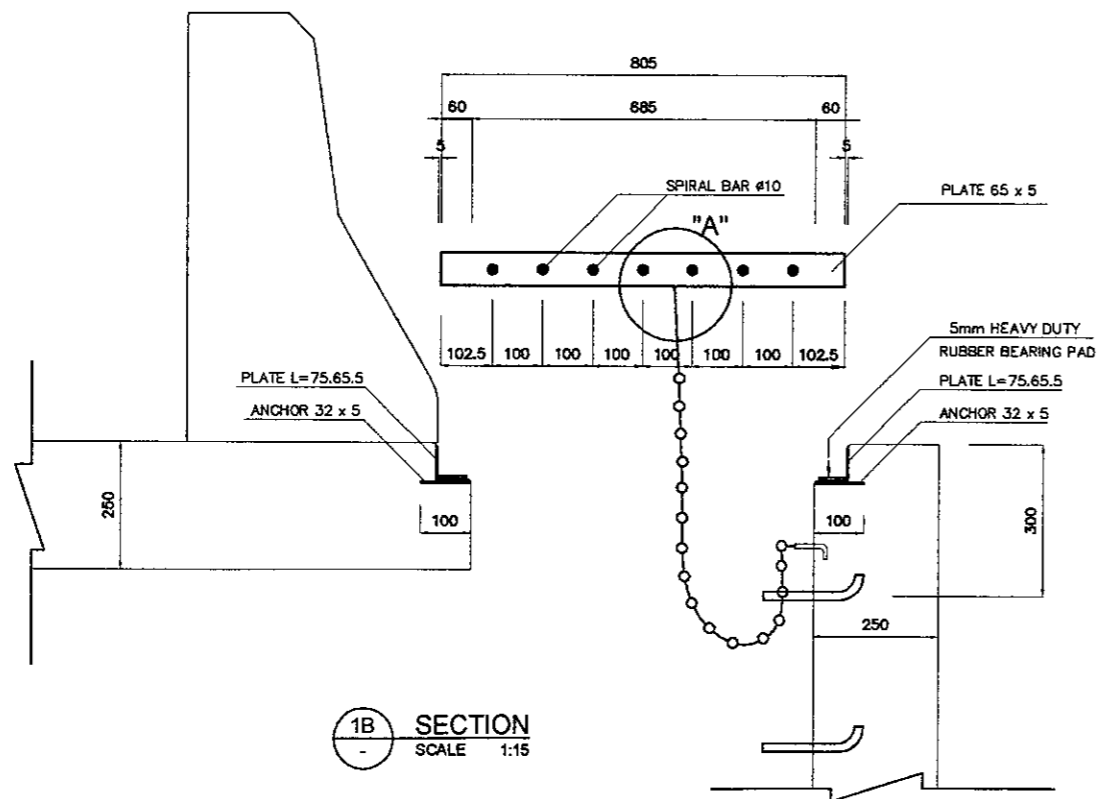
1A SECTION
 SCALE 1:15



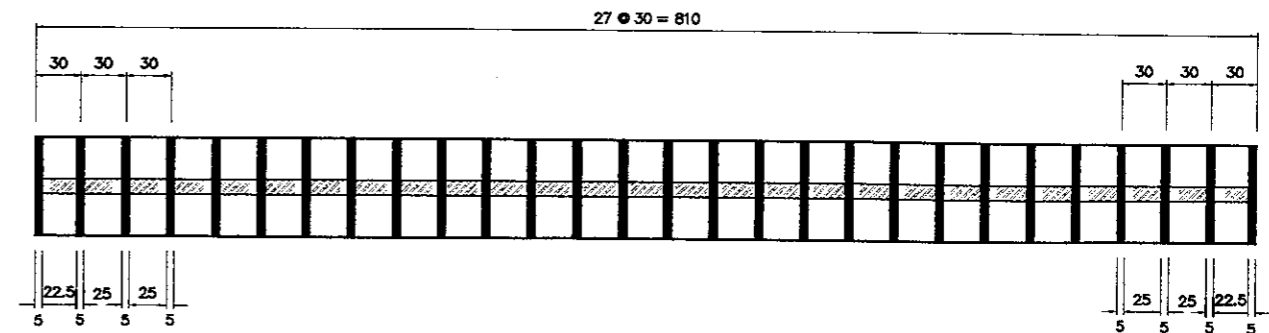
3 STEP DETAIL
 SCALE 1:20



4 DETAIL "A"
 SCALE 1:5

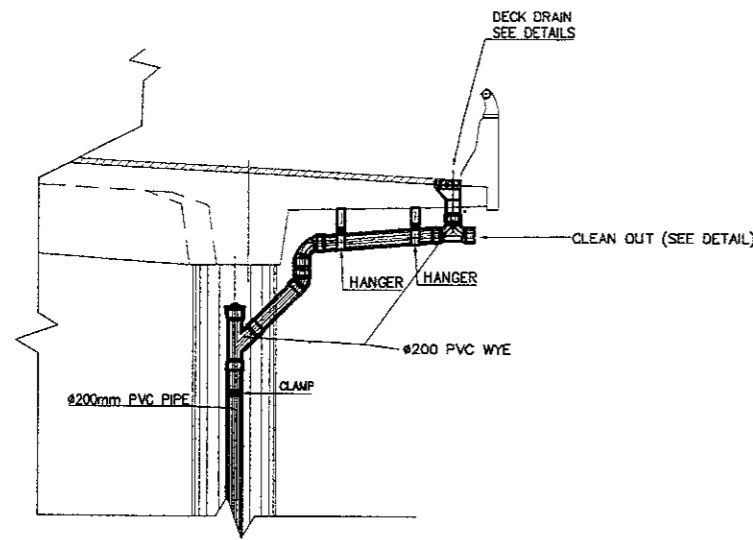


1B SECTION
 SCALE 1:15

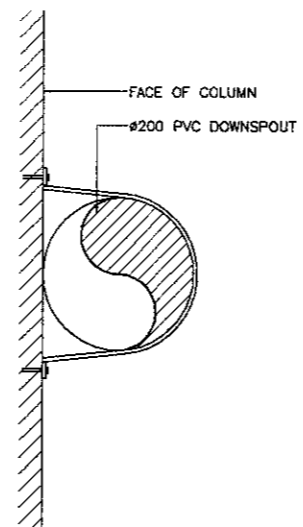


5 DETAILS STEEL GRATING
 SCALE 1:5

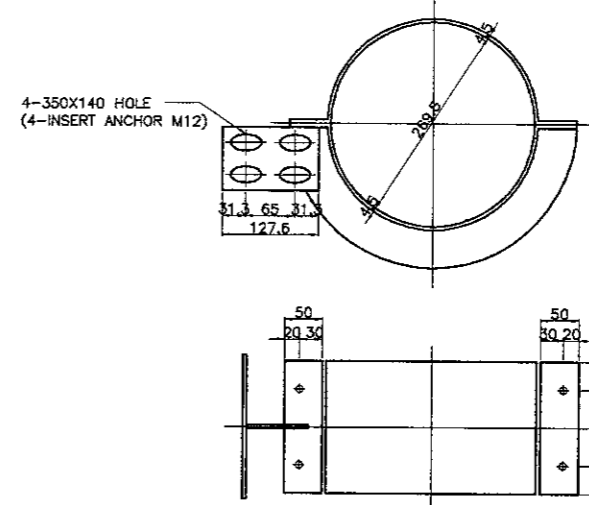
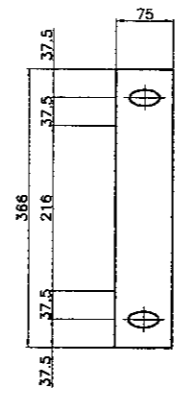
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



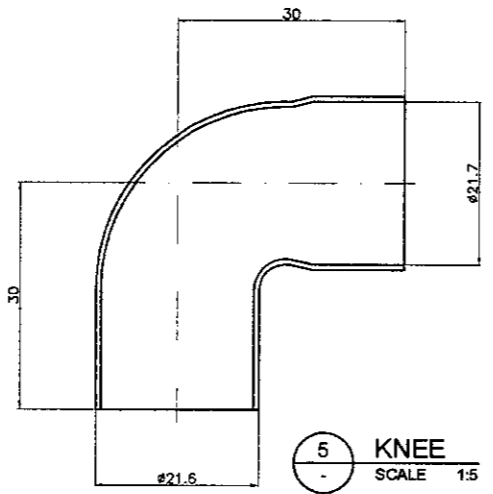
1 DECK DRAIN / DOWNSPOUT DETAIL
 SCALE 1:50



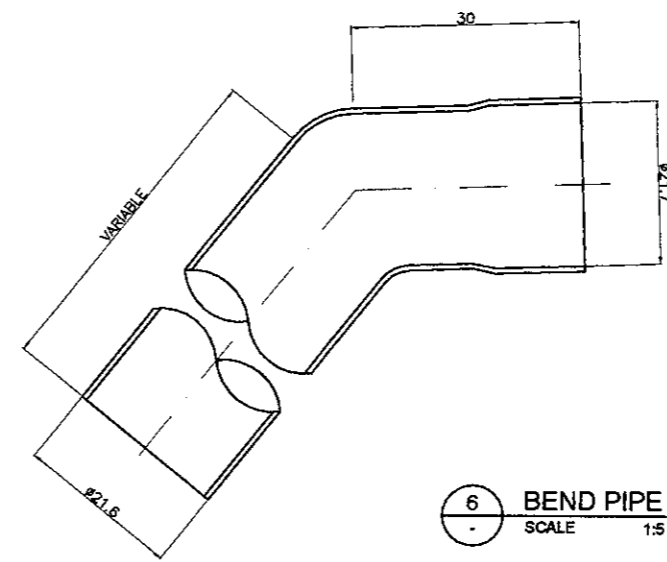
2 CLAMP
 SCALE 1:5



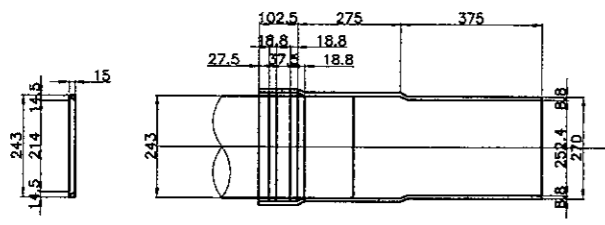
3 BRACKET
 SCALE 1:5



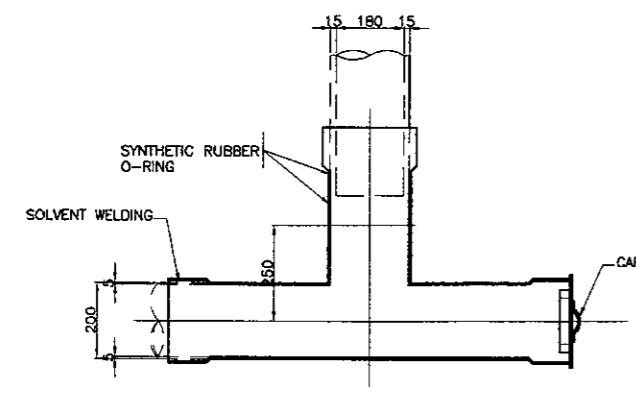
5 KNEE
 SCALE 1:5



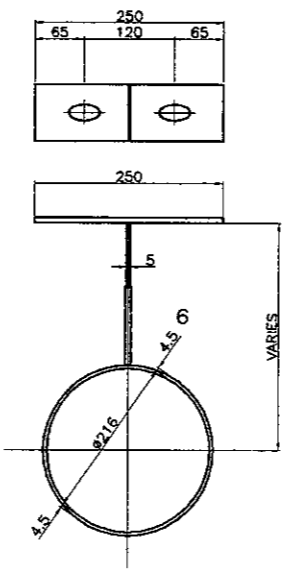
6 BEND PIPE
 SCALE 1:5



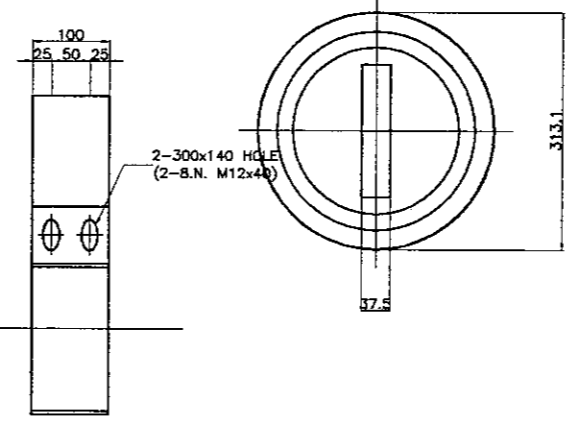
4 HORIZONTAL JOINTING
 SCALE 1:10



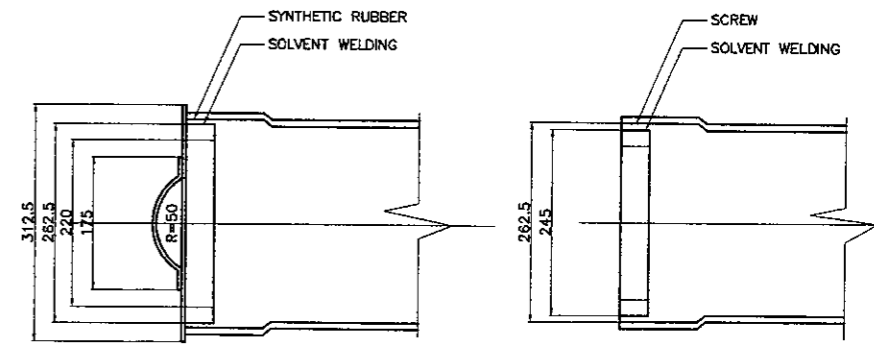
7 VERTICAL JOINTING
 SCALE 1:10



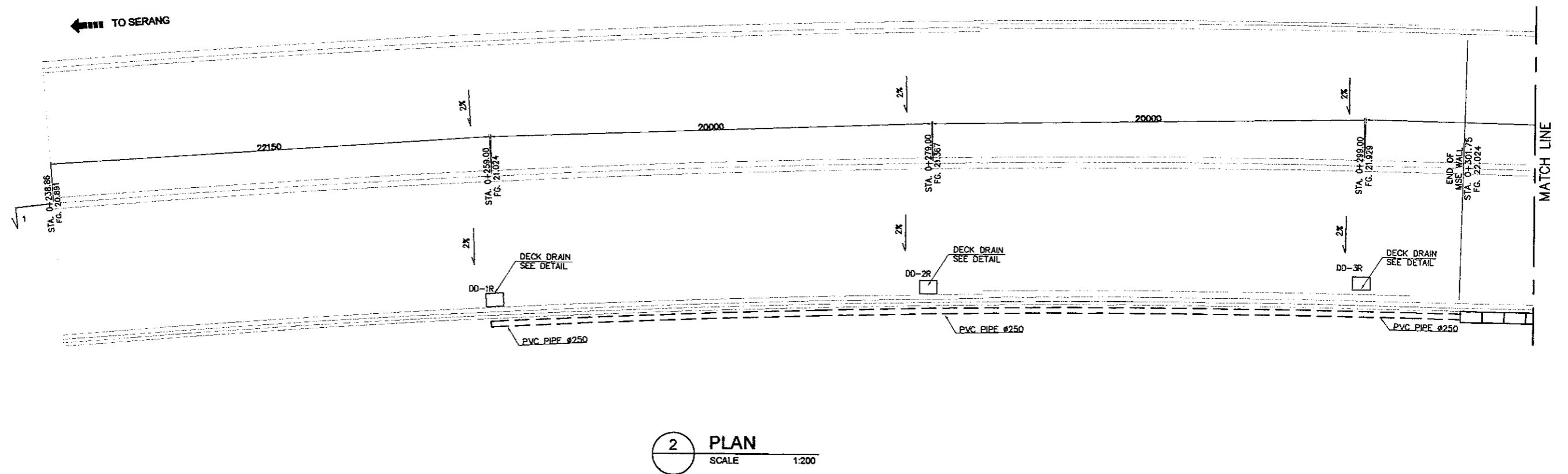
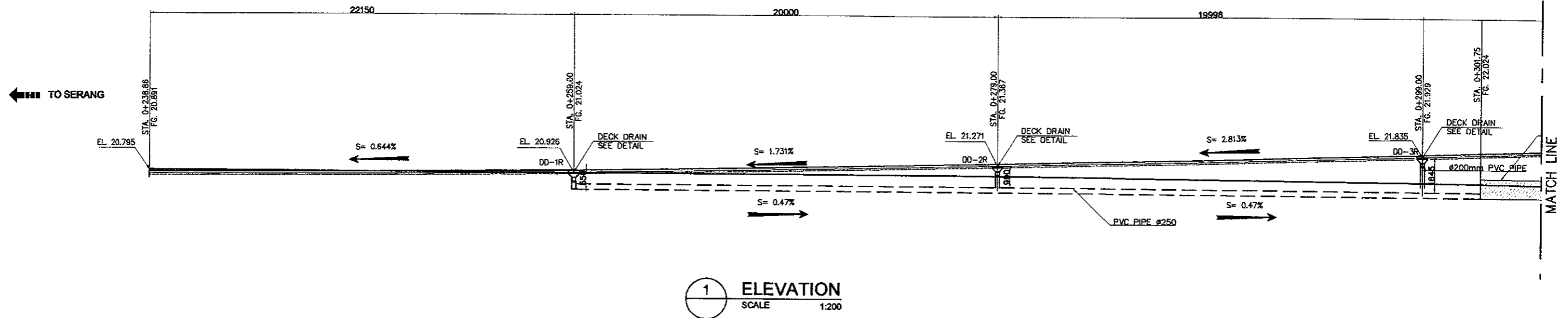
8 HANGER
 SCALE 1:5



9 CLEAN OUT
 SCALE 1:5



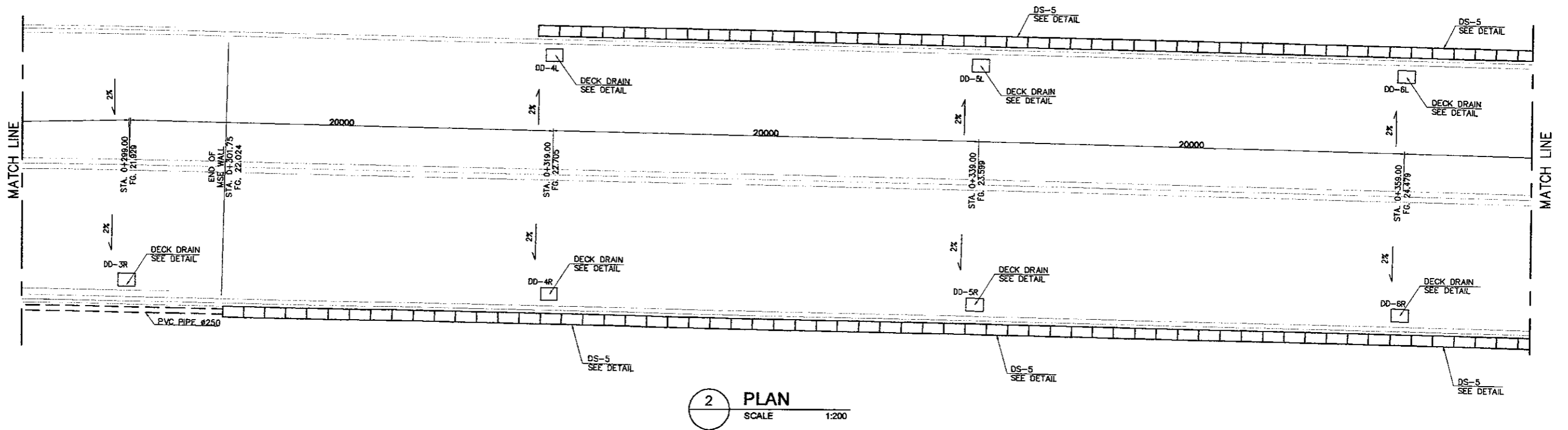
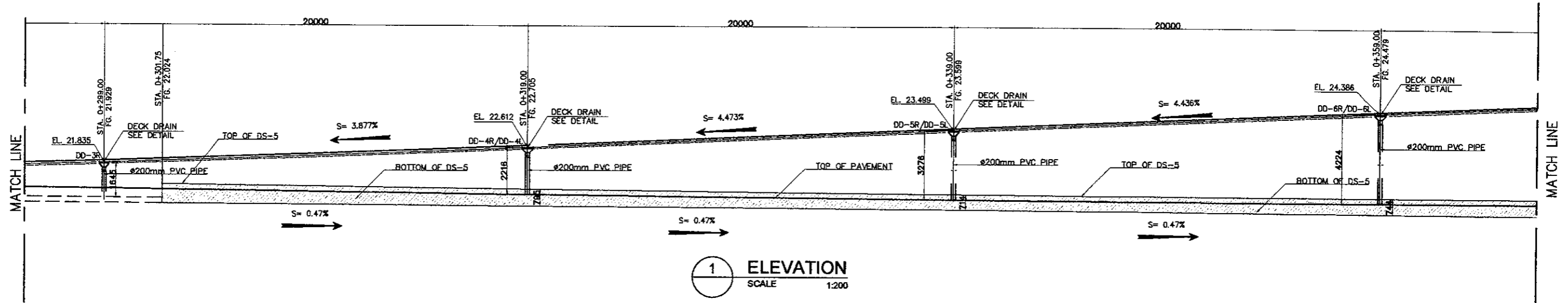
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

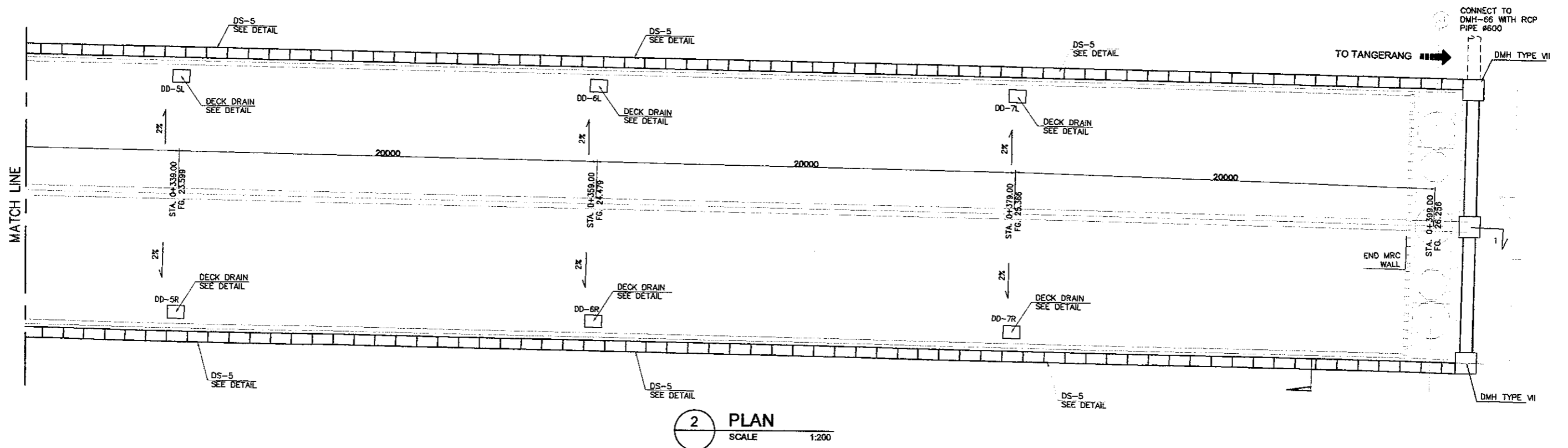
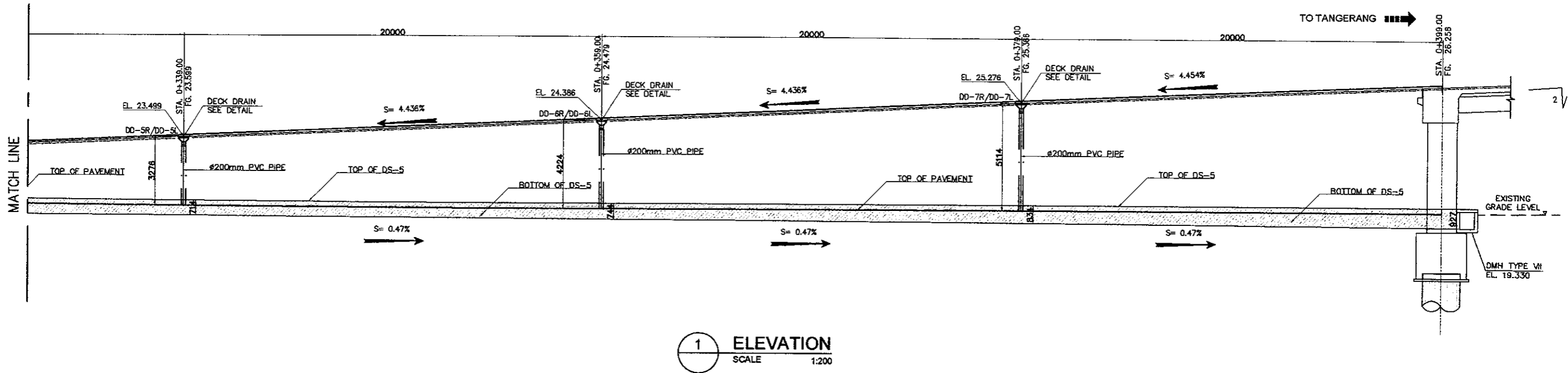
APPROVED BY: Ir. HERRY VAZA M,Eng.Sc
 NIP. : 110038400

Sign	
Date	

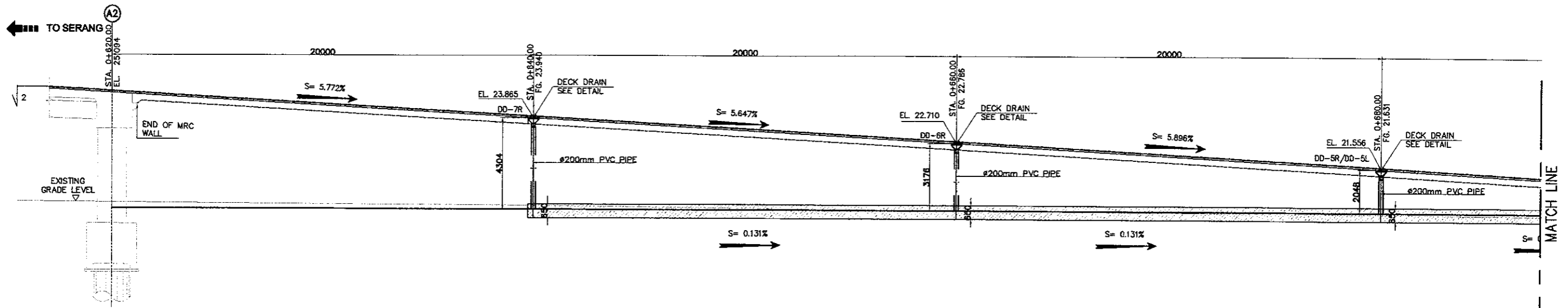


DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

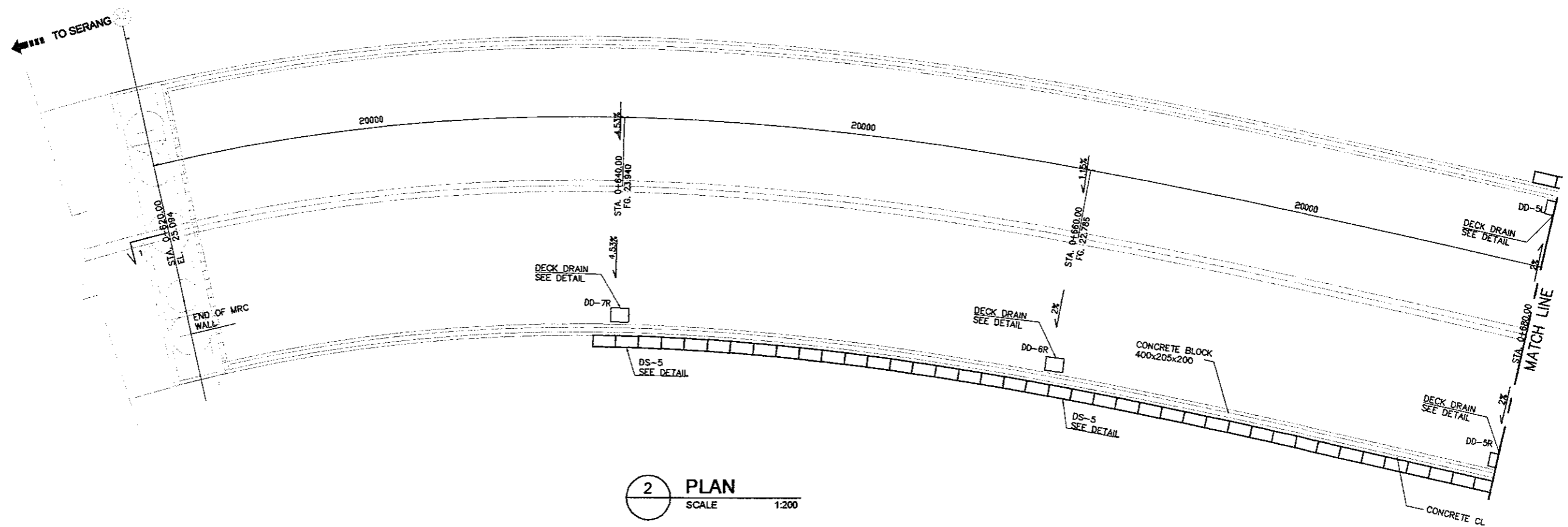
APPROVED BY	
Name	Ir. HERRY VAZA M,Eng.Sc
Sign	
Date	



DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

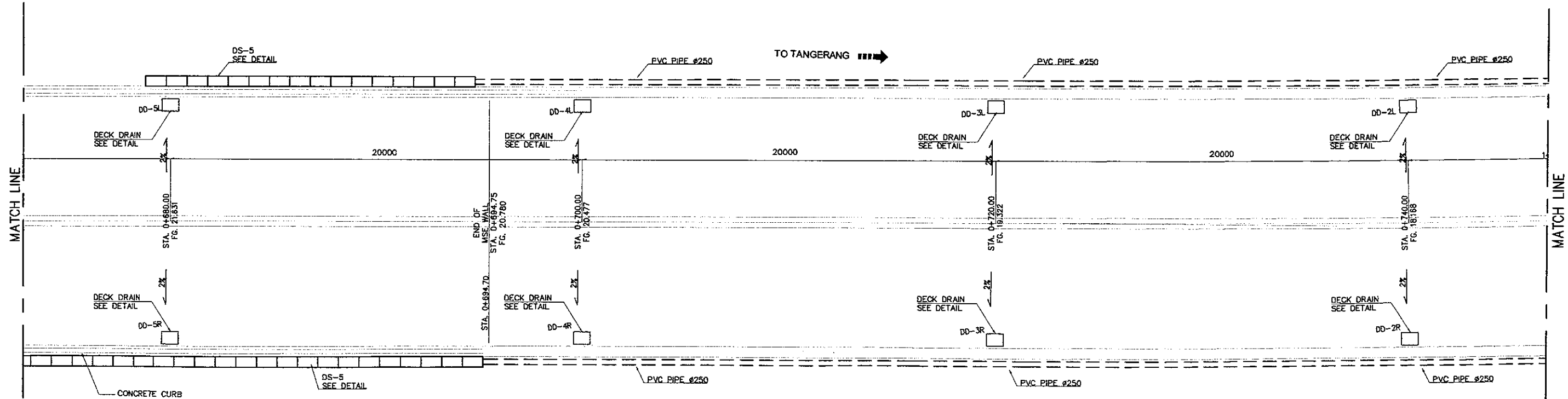
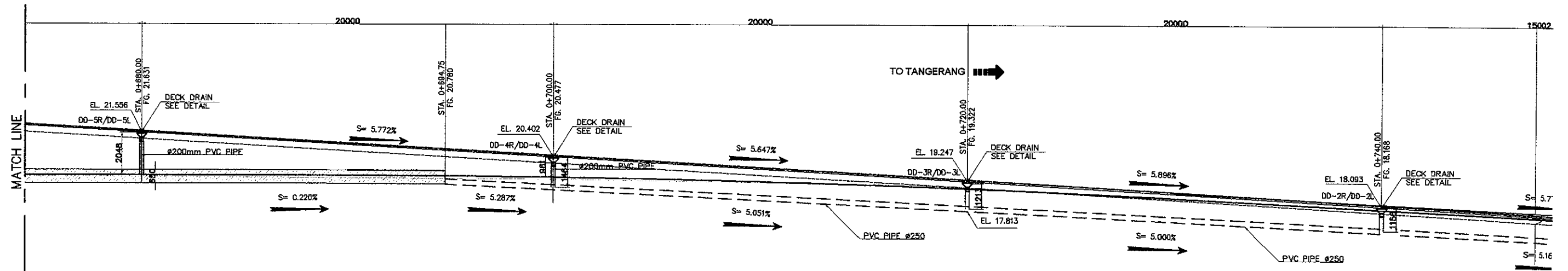


1 ELEVATION
 SCALE 1:200

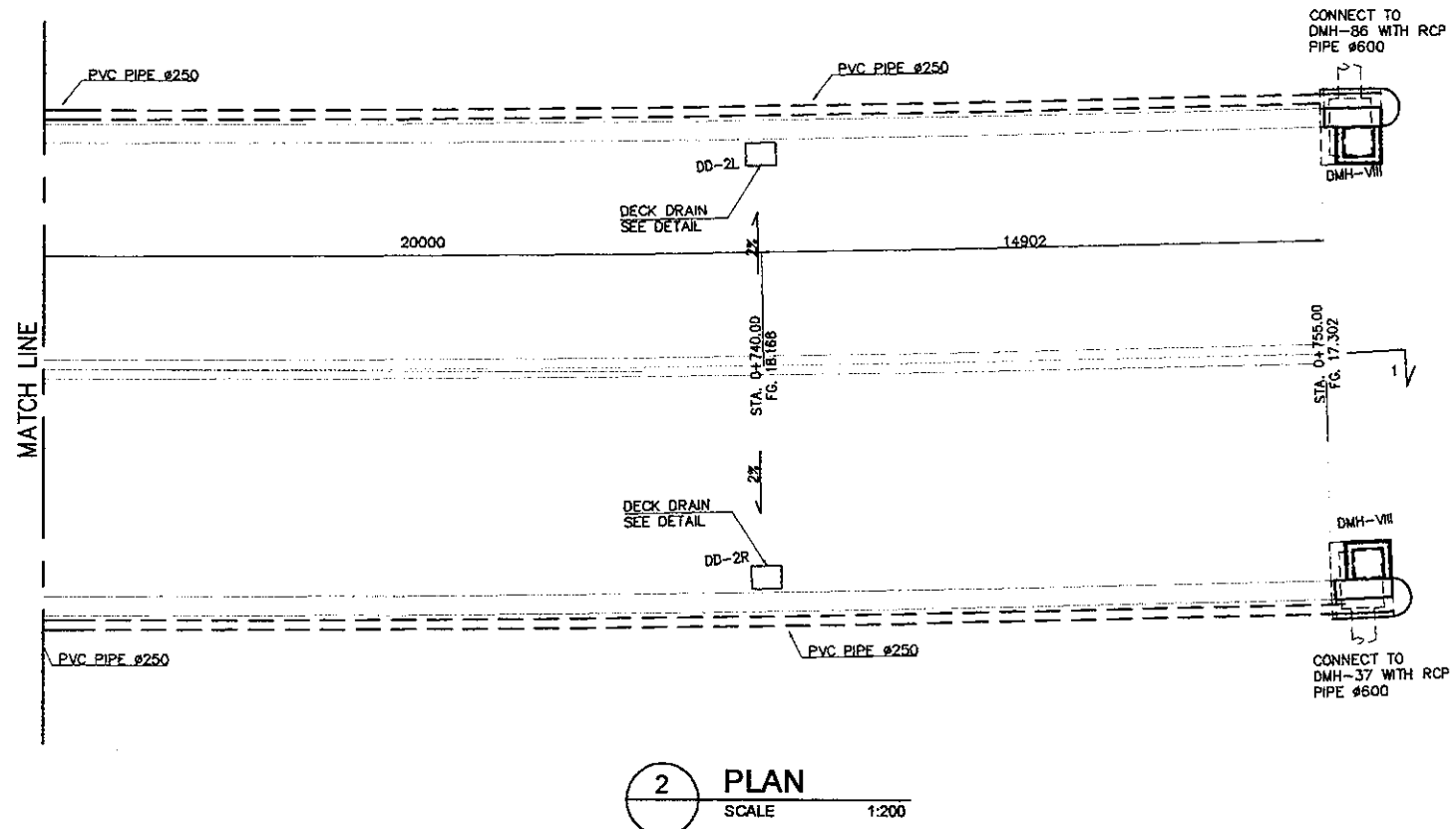
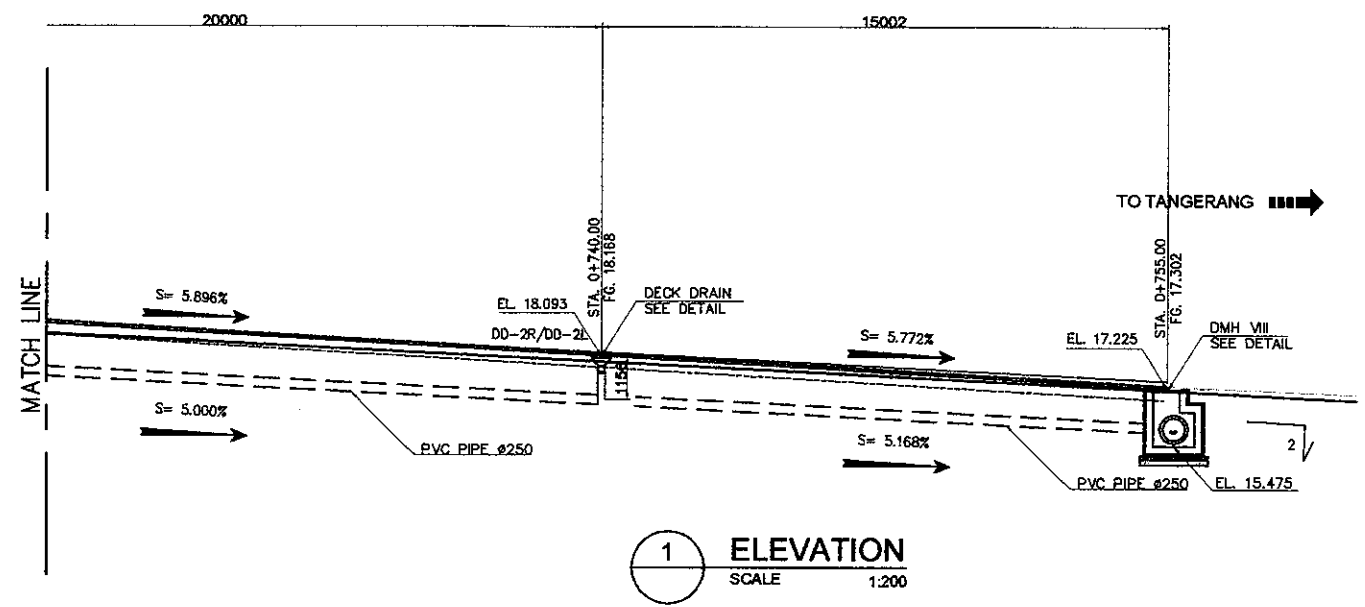


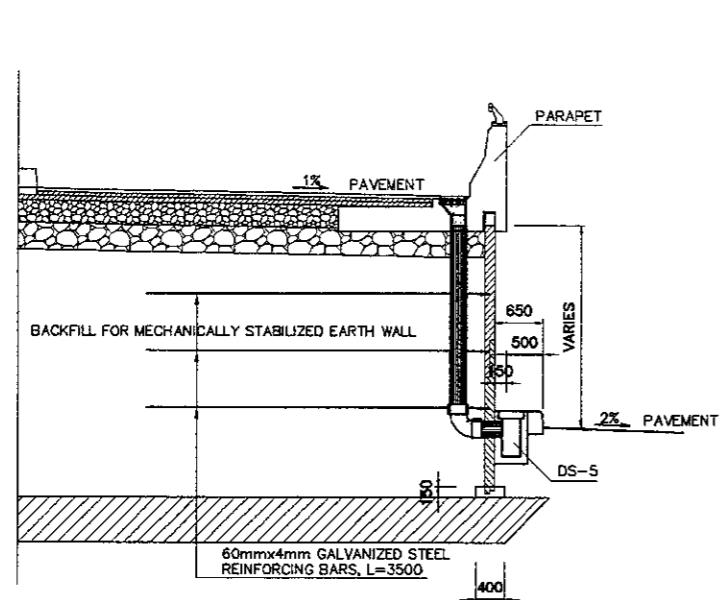
2 PLAN
 SCALE 1:200

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

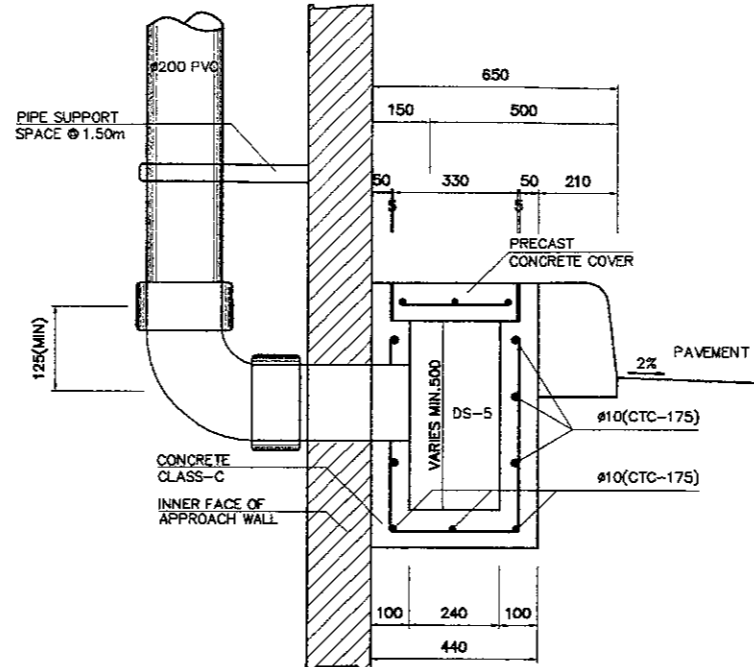


DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

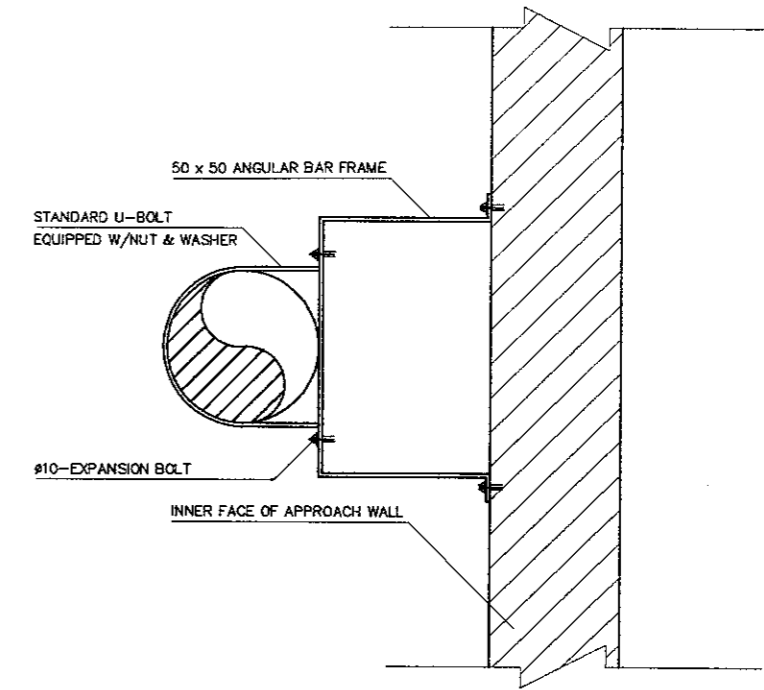




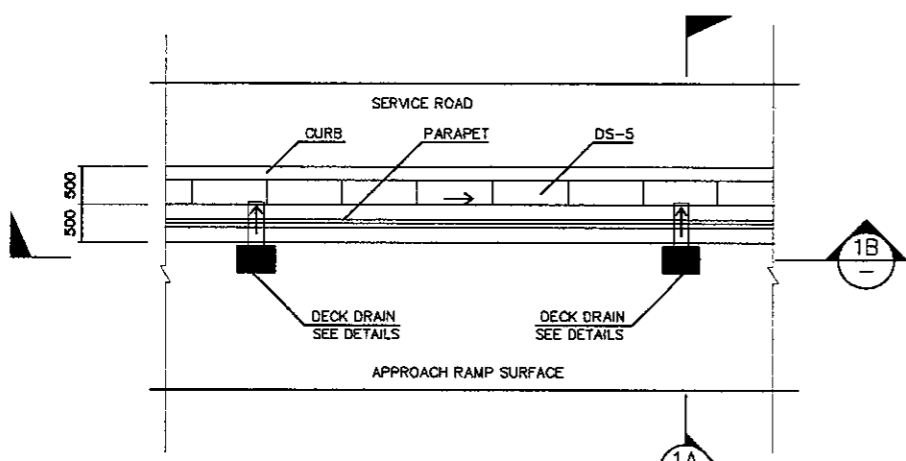
1A ELEVATION
 SCALE 1:100



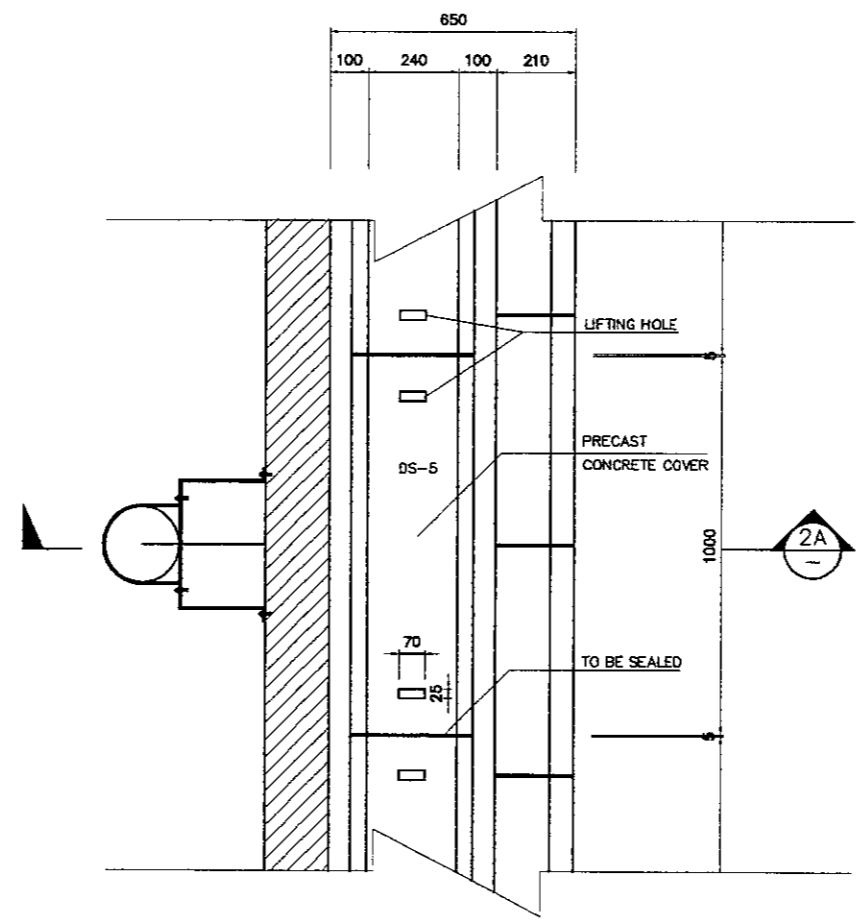
2A DS-5 DETAILS
 SCALE 1:20



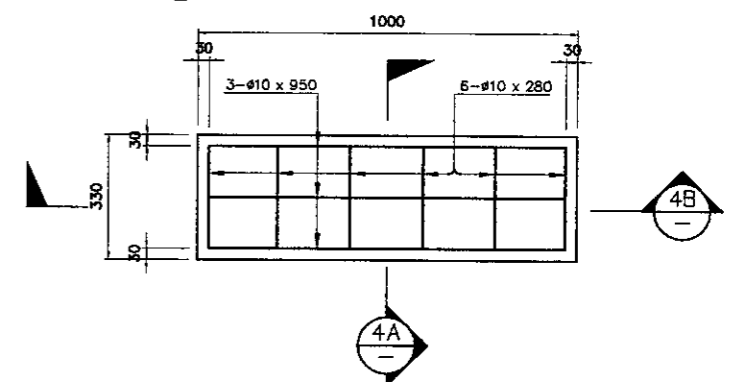
3 PIPE SUPPORT DETAIL
 NO TO SCALE



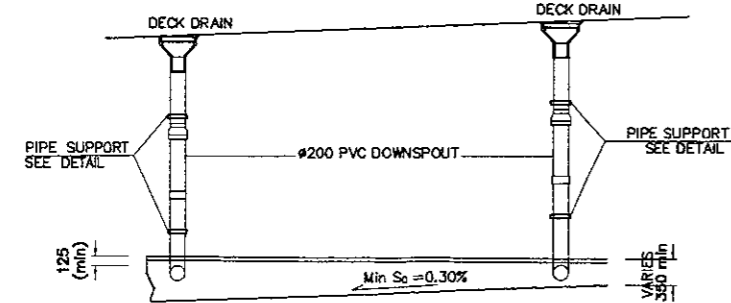
1 PARTIAL PLAN
 SCALE 1:100



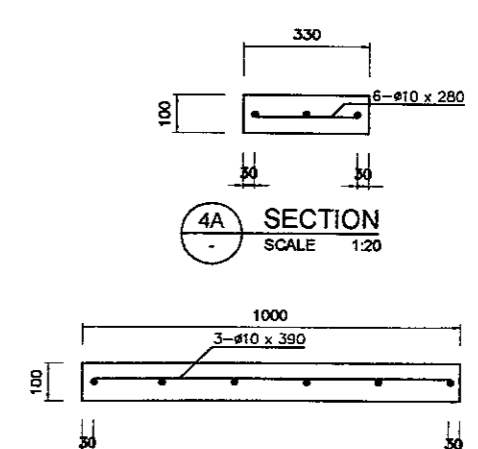
2 PLAN
 SCALE 1:20



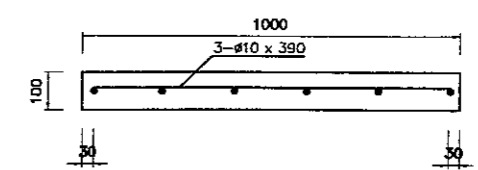
4 PLAN AT DS-5 COVER
 SCALE 1:20



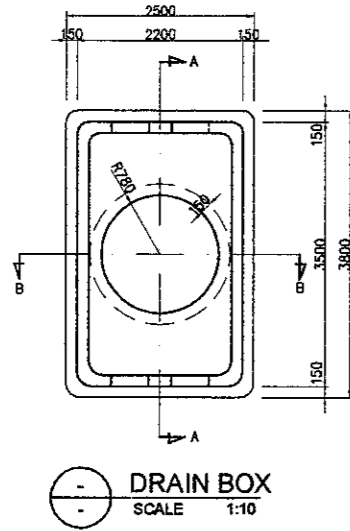
1B SECTION
 SCALE 1:100



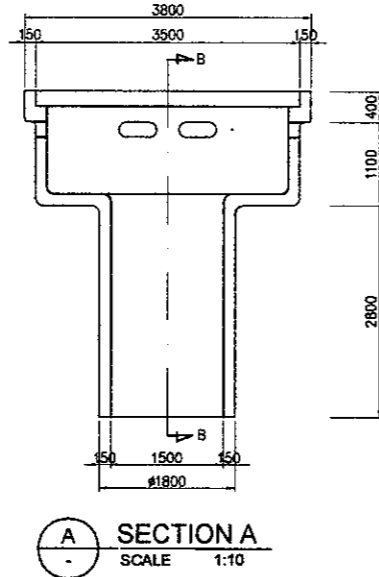
4A SECTION
 SCALE 1:20



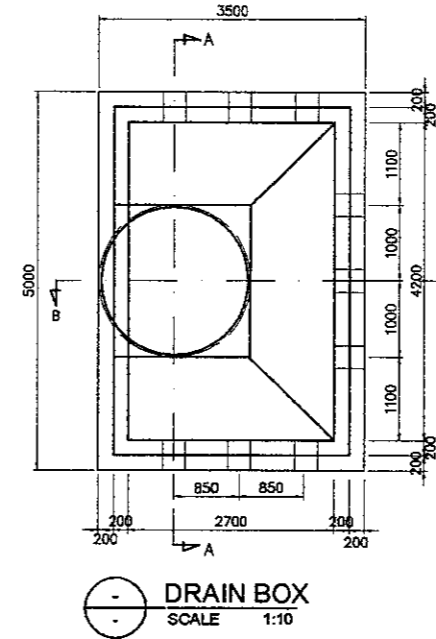
4B SECTION
 SCALE 1:20



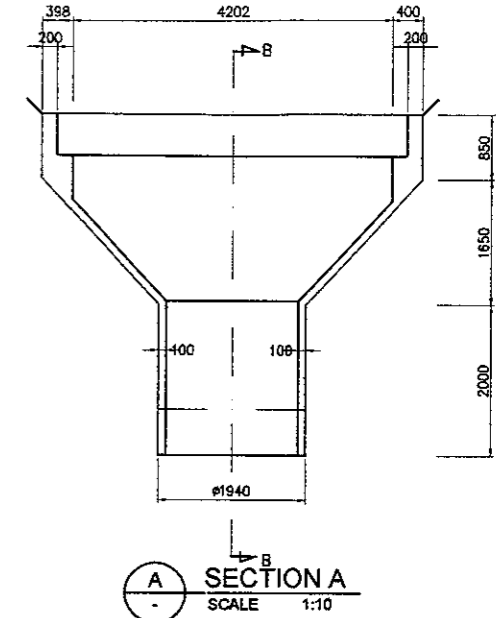
DRAIN BOX
 SCALE 1:10



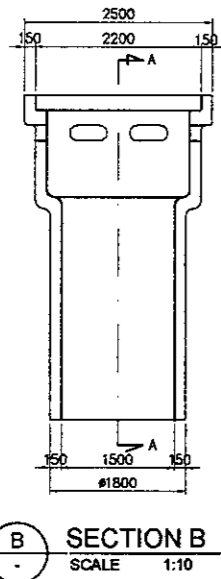
SECTION A
 SCALE 1:10



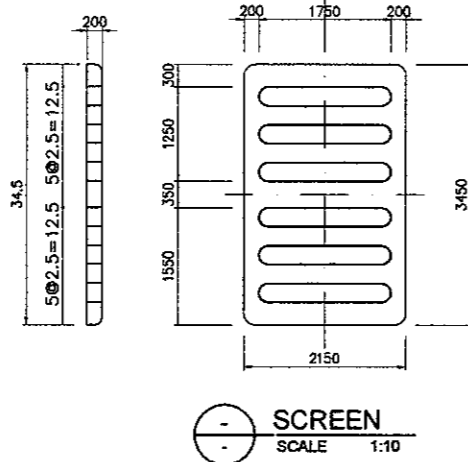
DRAIN BOX
 SCALE 1:10



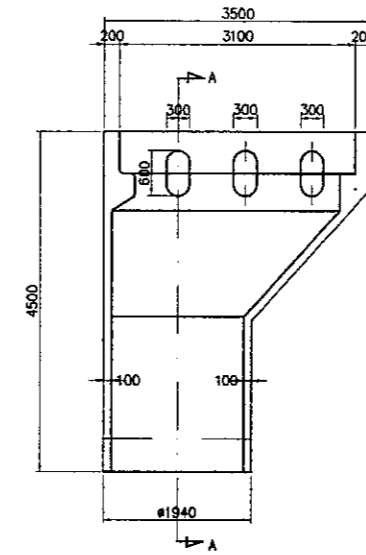
SECTION A
 SCALE 1:10



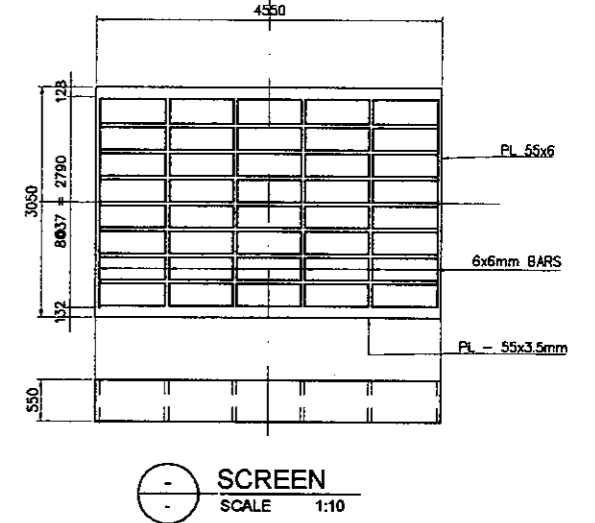
SECTION B
 SCALE 1:10



SCREEN
 SCALE 1:10



SECTION B
 SCALE 1:10



SCREEN
 SCALE 1:10

LIST OF DECK DRAIN (PER ONE)

NO	NAME	QUALITY	EACH	WEIGHT
①	BOX	CAST IRON FC 25	1	40.9
②	SCREEN	SC 46	1	7.4
③	CHAIN	SS 41	1	0.1
④	WIRE NET	-	1	0.6
TOTAL WEIGHT				49.0 kg

DECK DRAIN TYPE 1
 SCALE 1:10

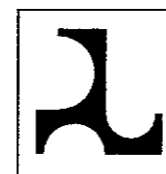
LIST OF DECK DRAIN (PER ONE)

NO	NAME	QUALITY	EACH	WEIGHT
①	BOX	CAST IRON FC 25	1	
②	SCREEN	SC 46	1	
③	CHAIN	SS 41	1	
④	WIRE NET	-	1	
TOTAL WEIGHT				55.0 kg

DECK DRAIN TYPE 2
 SCALE 1:10



JAPAN INTERNATIONAL
COOPERATION AGENCY



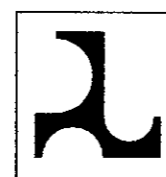
DIRECTORATE GENERAL OF HIGHWAY
MINISTRY OF PUBLIC WORKS
REPUBLIC OF INDONESIA

STRUCTURES

 KATAHIRA & ENGINEERS INTERNATIONAL



JAPAN INTERNATIONAL
COOPERATION AGENCY

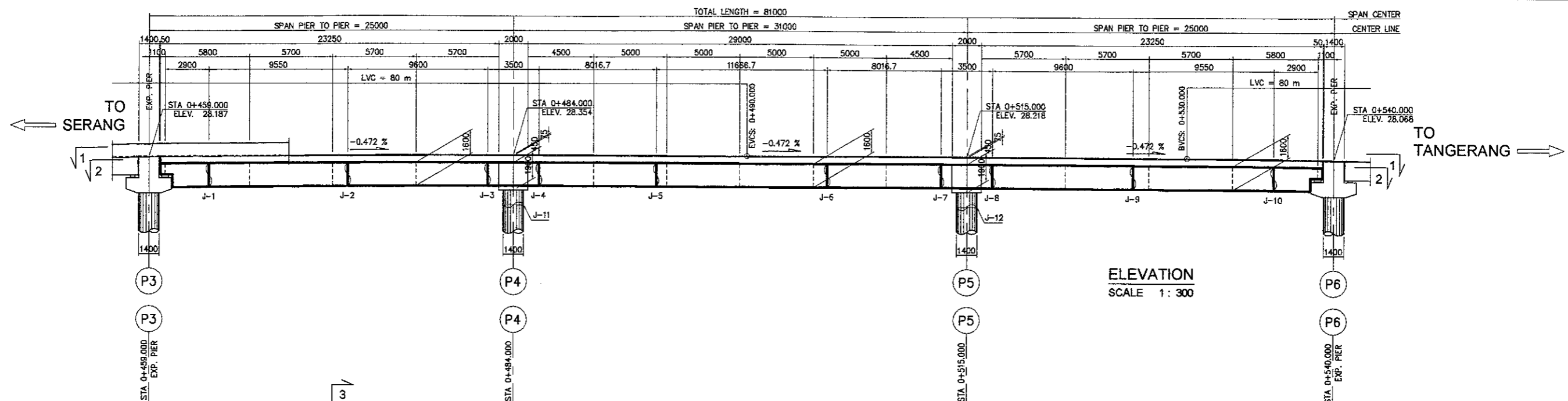


DIRECTORATE GENERAL OF HIGHWAY
MINISTRY OF PUBLIC WORKS
REPUBLIC OF INDONESIA

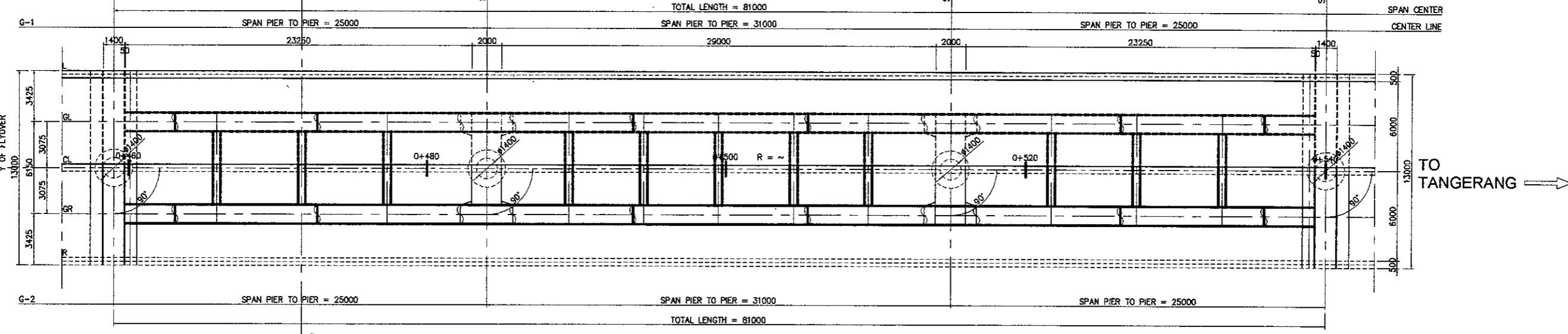
STEEL SUPERSTRUCTURE

 **KEI** KATAHIRA & ENGINEERS INTERNATIONAL

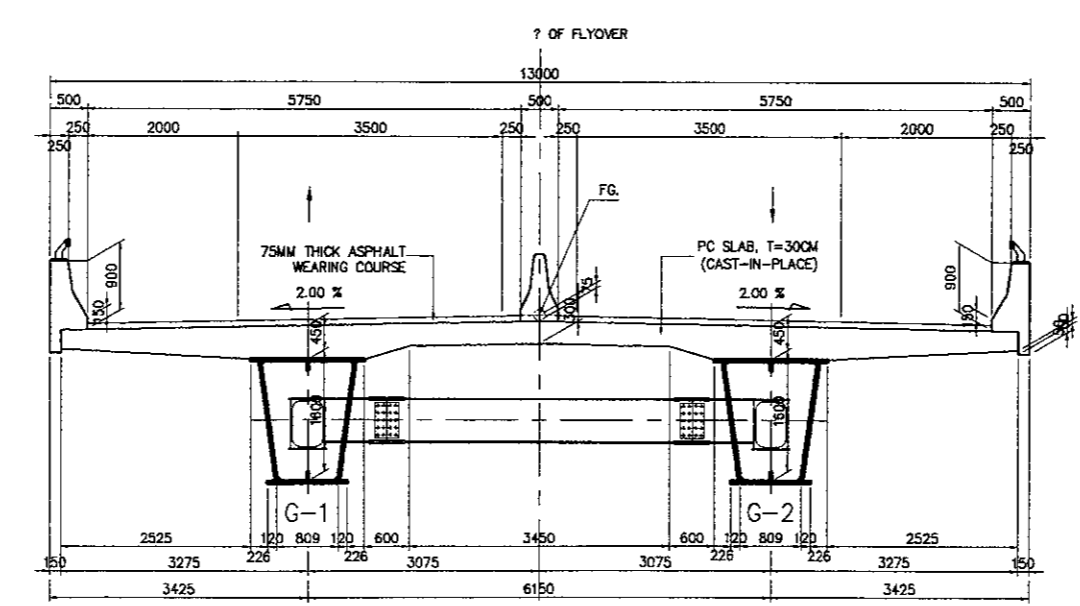
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



SECTION 1-1
 SCALE 1:300



SECTION 2-2
 SCALE 1:300



SECTION 3-3
 SCALE 1:300

PLAN
 SCALE 1:300



JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL

DESIGNED BY	CHECKED BY	SUBMITTED BY
Name S. MATSUI	Name T. OKUMURA	Name M. KIUCHI
Sign	Sign	Sign
Date	Date	Date



REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

APPROVED BY	Sign	Date
Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400		

PROJECT AND LOCATION :

DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
BALARAJA FLYOVER - CONTRACT PACKAGE 1
(MERAK - BALARAJA)
BANTEN PROVINCE

SCALE :

1 : 200

FULL SIZE A3

DRAWING TITLE :

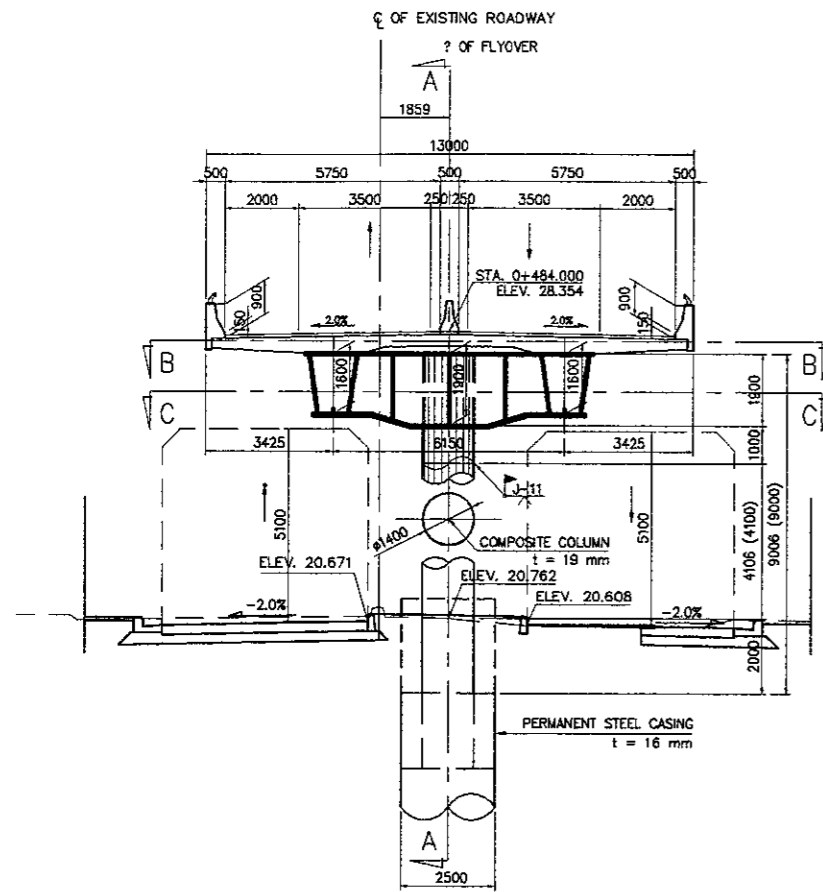
GENERAL DIMENSION OF STEEL
SUPERSTRUCTURE (2 OF 2)

DRAWING NO. :

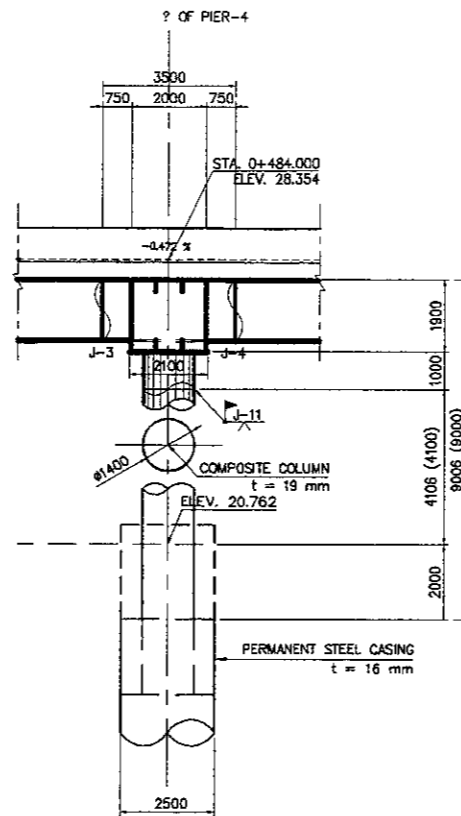
BST-02

SHEET NO. :

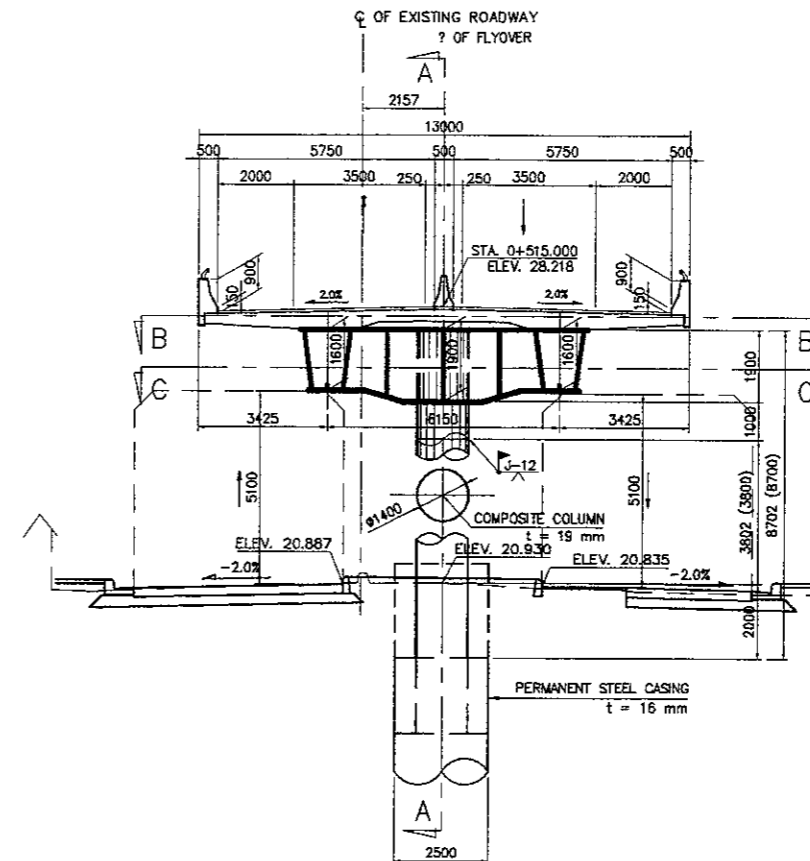
02 / 31



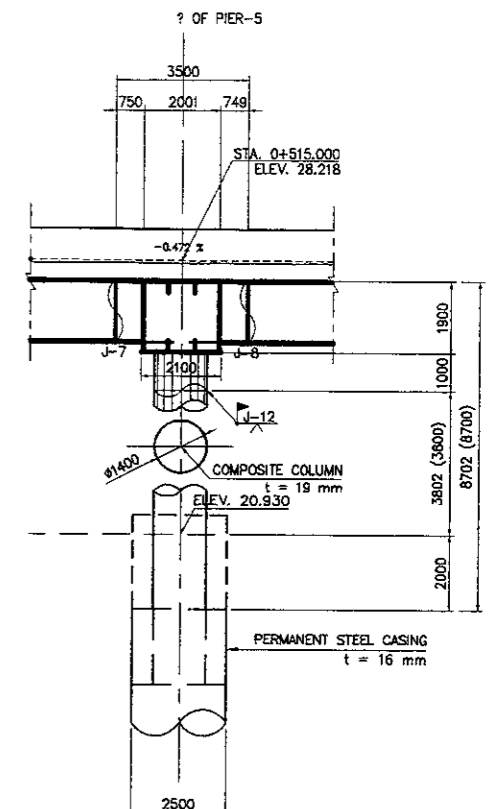
SECTION OF PIER - 4
SCALE 1 : 200



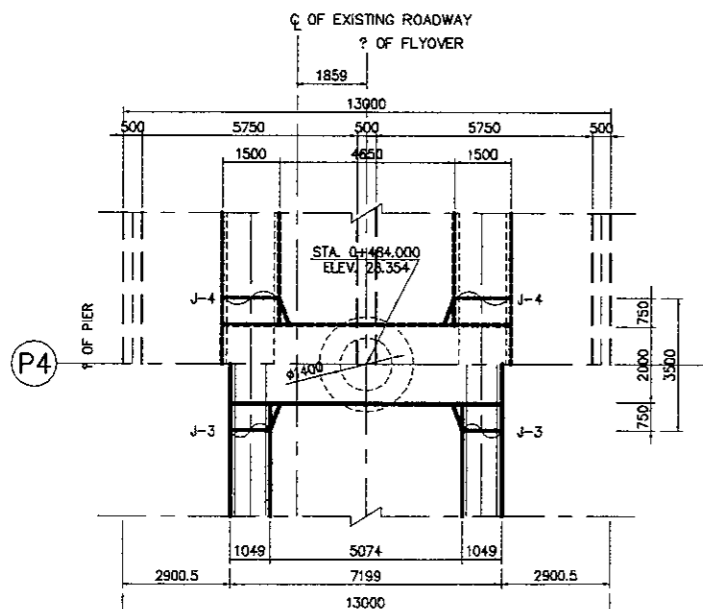
SECTION A-A
SCALE 1 : 200



SECTION OF PIER - 5
SCALE 1 : 200

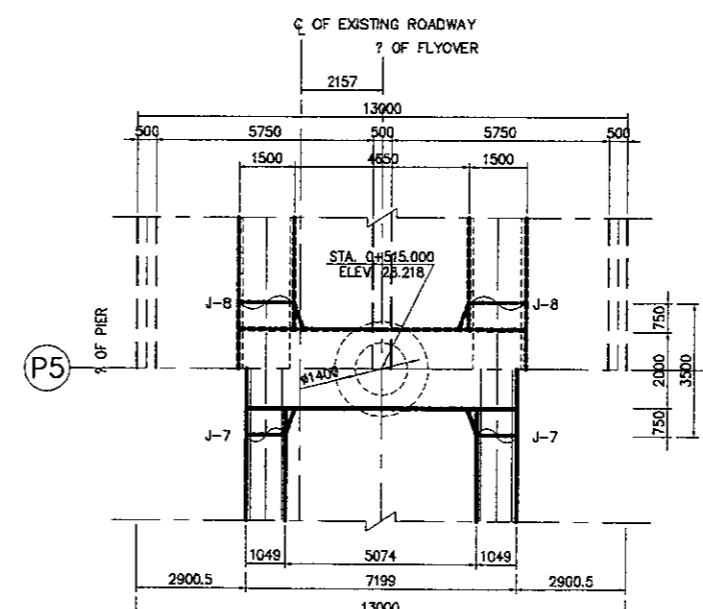


SECTION A-A
SCALE 1 : 200



SECTION B-B
SCALE 1 : 200

SECTION C-C
SCALE 1 : 200



SECTION B-B
SCALE 1 : 200

SECTION C-C
SCALE 1 : 200

MAIN GIRDER

KIND	MATERIAL	PLATE THICKNESS (mm)	P3- P6 (3 SPAN)				
			MAIN GIRDER (kg)	CROSS BEAM (kg)	TOTAL		
PL	SMA490BW	32	306		306		
		31	8,968		8,968		
		30		5,748	5,748		
		25	6,512		6,512		
		22	11,244		11,244		
		21	13,584		13,584		
		20	19,564		19,564		
		19	5,972		5,972		
		18	59,608		59,608		
		17	588		588		
		SMA490BW SUB - TOTAL			126,346	5,748	132,094
		SMA490AW	SMA490AW	16	484		484
				15	328		328
				14	3,274		3,274
				13	3,236		3,236
				12	2,604		2,604
				10	80		80
				9	140	584	724
		SMA490AW SUB - TOTAL			10,146	584	10,730
		SM490YB	SM490YB	24	1,234		1,234
22	4,520			1,026	5,546		
20	1,448				1,448		
18	1,848				1,848		
17	472				472		
SM490YB SUB - TOTAL			8,288	2,260	10,548		
SM490YA	SM490YA	16	2,678		2,678		
		15	212		212		
		14	56	36	92		
		13	560		560		
		12	2,652		2,652		
		11	80		80		
		10	636		636		
		9	136	1,396	1,532		
		SM490YA SUB - TOTAL			7,010	1,432	8,442
		SMA400AW	SMA400AW	24		1,287	1,287
22	232				232		
19	276				276		
13	464			2,409	2,873		
12	20			352	372		
11	20				20		
9	896				896		
6	116				116		
SMA400AW SUB - TOTAL				2,024	4,048	6,072	
SM400A	SM400A			24		1,903	1,903
		11	1,860		1,860		
		10		220	220		
		9		2,596	2,596		
		SM400A SUB - TOTAL			1,860	4,719	6,579
SS400	SS400	12	136		136		
		11	152		152		
		9		54	54		
		6	36		36		
		SS400 SUB - TOTAL			324	54	378
SPA-H	SPA-H	3.2	68		68		
PL TOTAL			156,066	18,845	174,911		
H	SMA400AW	700x300x13x24		8,085	8,085		
SGP	SGP	20A	12		12		
PIPE	STK400	267.4x6.6	312		312		
		101.6x4.2	36		36		
PIPE TOTAL			312	36	348		
RB	SR235	#13	12		12		
TOTAL 1			156,402	26,966	183,368		
STUD	STUD	#22x150	626		626		
TCB	S10T	M22	232		232		
	S10TW	M22	5,328	682	6,010		
TCB TOTAL			5,560	882	6,242		
BN	SS400	M16	12	10	22		
TOTAL 2			6,198	892	6,890		
GRAND TOTAL			162,600	27,858	190,258		

BOLT NUMBER

KIND	MATERIAL	DIMENSION (mm)	P3- P6 (3 SPAN)			NOTES		
			MAIN GIRDER	CROSS BEAM	TOTAL (nos)			
TCB	S10T	M22 x 90	128		128			
		M22 x 85	40		40			
		M22 x 80	176		176			
		M22 x 75	72		72			
		S10T TOTAL			416		416	
		S10TW	S10TW	M22 x 115	560		560	
				M22 x 110	1,200		1,200	
				M22 x 105	400		400	
				M22 x 100	592		592	
				M22 x 95	832		832	
M22 x 90	384				384			
M22 x 85	704				704			
S10TW TOTAL			9,112	1,232	10,344			
TCB TOTAL			9,528	1,232	10,760			
BN	SS400	M16 x 65		24	24			
		M16 x 55		32	32			
		M16 x 45	48		48			
BN TOTAL			48	56	104			
GRAND TOTAL			9,576	1,288	10,864			

DECK SLAB, WATERPROOFING AND PAVEMENT

ITEM	UNIT	QUANTITY	NOTES
DECK SLAB : - CONCRETE - PC. CABLE - REINFORCEMENT	m ² kg kg	379.07 3,785.55 41,455.22	
WATERPROOFING	m ²	948.75	
PAVEMENT	m ²	-	HIGHWAY PORTION

PAINT AREA

ITEM	UNIT	QUANTITY	NOTES
INNER AREA	m ²	1,071.78	
OUTER AREA	m ²	1,124.55	
CONCRETE CONTACT AREA	m ²	11.28	

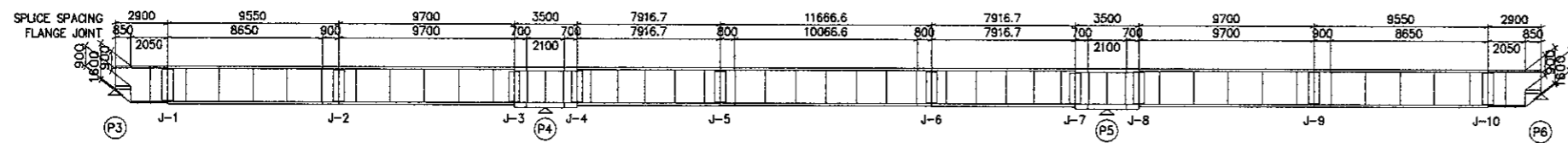
T-TYPE GIRDER P4 AND P5

MATERIAL	PLATE THICKNESS (mm)	WEIGHT (kg)	NOTES
SM 570	42.00	5,949.20	
	32.00	6,106.40	
	30.00	1,198.40	
	22.00	349.00	
	16.00	240.40	
	TOTAL		13,843.40
SM 520C	42.00	6,418.60	
SM 490YB	34.00	1,711.20	
	32.00	4,805.20	
	30.00	2,194.20	
	28.00	594.80	
	25.00	9,687.00	
TOTAL		25,166.00	
SM 400A	28.00	1,409.20	
	20.00	3,158.40	
	10.00	73.60	
	9.00	851.20	
	TOTAL		5,592.40
SS 400	9.00	42.80	
PLATE TOTAL		51,063.20	
SKK 400	20.00	2,487.00	
	20.00	1,362.00	
SS 400	BN M16	4.00	
SUB TOTAL		3,853.00	
GRAND TOTAL		54,916.20	

MEMBER	MAIN GIRDER G1									
JOINT NO.	BLOCK-1	BLOCK-2	BLOCK-3	BLOCK-5	BLOCK-6	BLOCK-7	BLOCK-9	BLOCK-10	BLOCK-11	TOTAL
PER MEMBER	4,133	8,485	9,045	7,694	10,975	7,690	9,027	8,481	4,133	
SET	1	1	1	1	1	1	1	1	1	9
GRAND TOTAL	4,133	8,485	9,045	7,694	10,975	7,690	9,027	8,481	4,133	69,863

MEMBER	JOINT G1										
JOINT NO.	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	TOTAL
PER MEMBER	2,004.0	1,652.5	1,839.5	1,793.0	932.5	533.0	1,562.5	1,931.5	1,700.0	2,534.0	
SET	1	1	1	1	1	1	1	1	1	1	11
GRAND TOTAL	2,004.0	1,652.5	1,839.5	1,793.0	932.5	533.0	1,562.5	1,931.5	1,700.0	2,534.0	16,482.5

MEMBER	CROSS BEAM		
JOINT NO.	FI-1	FI-2	TOTAL
PER MEMBER	1,594	1,594	
SET	6	5	11
GRAND TOTAL	9,564	7,970	17,534

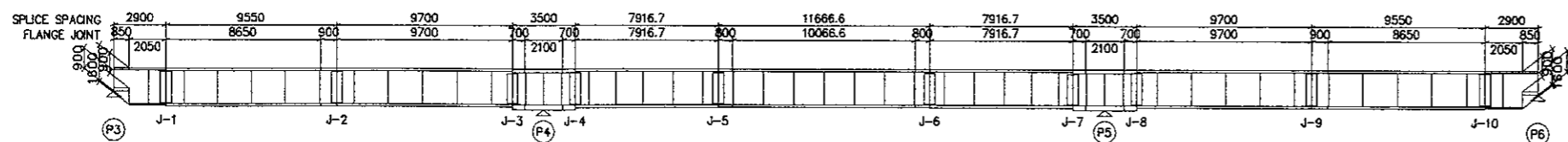


ARRANGEMENT DIAGRAM OF GIRDER G1
 NOT TO SCALE

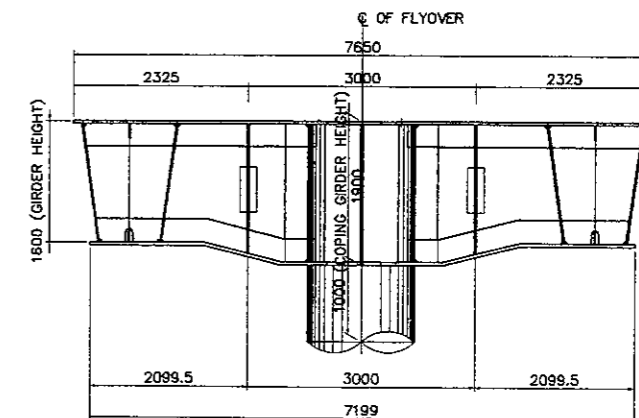
MEMBER	MAIN GIRDER									
JOINT NO.	BLOCK-1	BLOCK-2	BLOCK-3	BLOCK-5	BLOCK-6	BLOCK-7	BLOCK-9	BLOCK-10	BLOCK-11	TOTAL
PER MEMBER	2,496	8,485	9,045	7,694	10,975	7,690	9,027	8,481	2,496	
SET	1	1	1	1	1	1	1	1	1	9
GRAND TOTAL	2,496	8,485	9,045	7,694	10,975	7,690	9,027	8,481	2,496	65,389

MEMBER	GIRDER P4-P5		
PIER	P4	P5	TOTAL
PER MEMBER	27,458.10	27,458.10	
SET	1	1	2
GRAND TOTAL	27,458.10	27,458.10	54,916.20

MEMBER	JOINT G2										
JOINT NO.	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	TOTAL
PER MEMBER	2,004.0	1,652.5	1,839.5	1,793.0	932.5	533.0	1,562.5	1,931.5	1,700.0	2,534	
SET	1	1	1	1	1	1	1	1	1	1	11
GRAND TOTAL	2,004.0	1,652.5	1,839.5	1,793.0	932.5	533.0	1,562.5	1,931.5	1,700.0	2,534	16,482.5

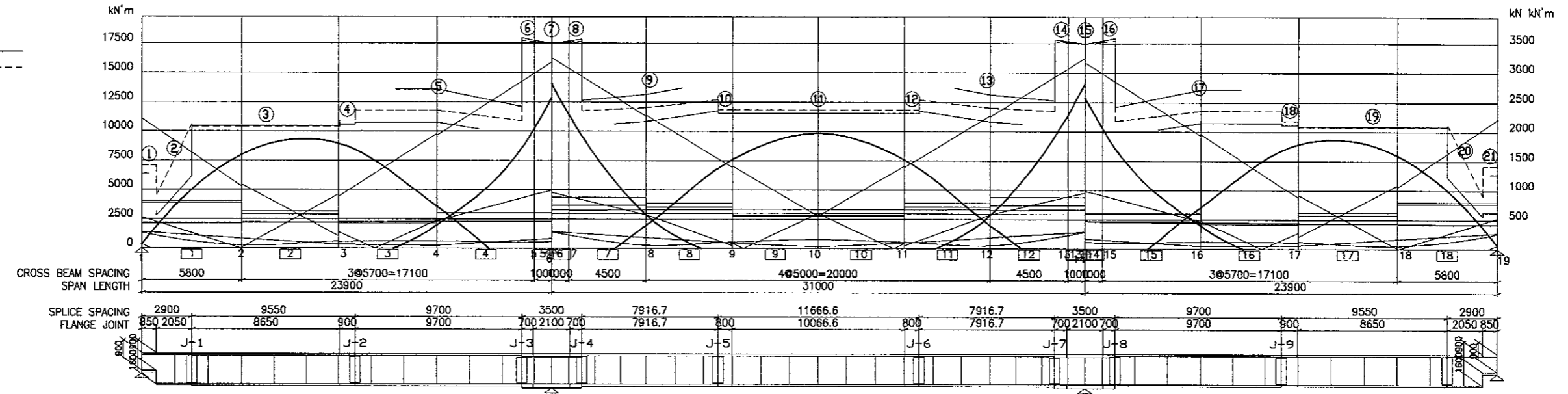


ARRANGEMENT DIAGRAM OF GIRDER G2
 NOT TO SCALE



T-TYPE OF GIRDER P4 OR P5
 NOT TO SCALE

G-1
 REQUIRED CAPACITY ———
 CAPACITY - - - - -

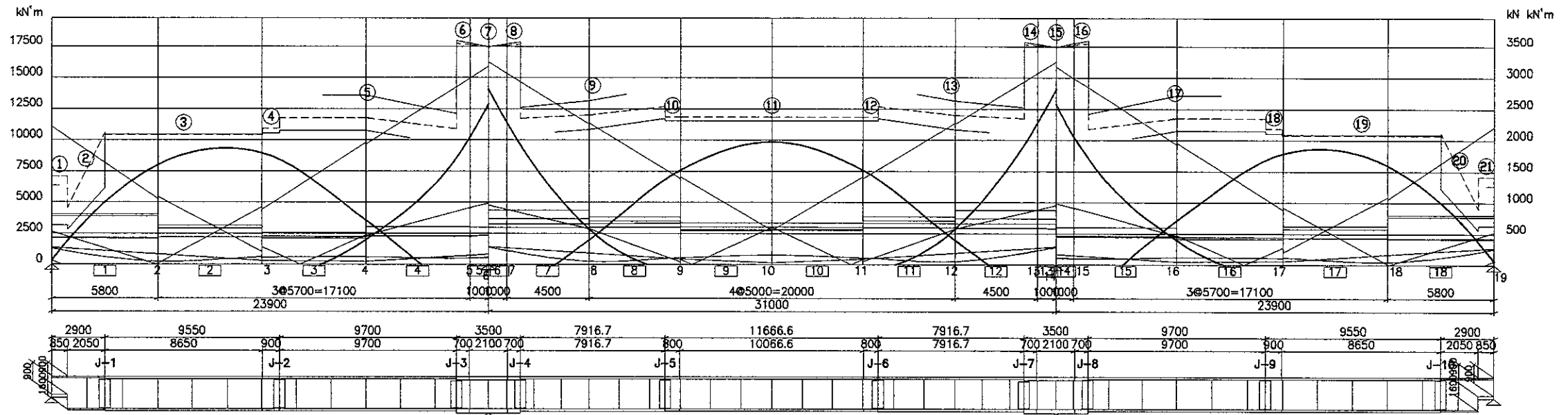


SECTION ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21															
U-FLG, W=1500 MM	SEC-1	SEC-2	SEC-3	SEC-3	SEC-4	SEC-5	SEC-5	SEC-5	SEC-6	SEC-7	SEC-7	SEC-7	SEC-8	SEC-9	SEC-9	SEC-9	SEC-10	SEC-11	SEC-11	SEC-12	SEC-13															
U-FLG QUALITY	SM 490YA			SM 490YB			SM 570				SM 490YB				SM 570			SM 490YB			SM 490YA															
U-FLG LOG. RIB	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1															
U-FLG THICKNESS	180	180	180	180	180	180	0	190	190	190	190	190	190	190	0	180	180	180	180	180	180															
U-FLG QUALITY	22	22	22	22	22	22	0	22	22	22	22	22	22	22	0	22	22	22	22	22	22															
LWEB-PL	SM 490YB																																			
LWEB-PL THICKNESS	913.4	913.4	913.4	1601.7	1595.6	1595.6	1595.6	1595.6	1583.5	1583.5	1583.5	1583.5	1594.6	1594.6	1594.6	1594.6	1583.5	1583.5	1583.5	1583.5	1595.6	1595.6	1595.6	1601.7	913.4	913.4	913.4									
RWEB-PL	SM 490YB																																			
RWEB-PL THICKNESS	913.4	913.4	913.4	1601.7	1595.6	1595.6	1595.6	1595.6	1583.5	1583.5	1583.5	1583.5	1594.6	1594.6	1594.6	1594.6	1583.5	1583.5	1583.5	1583.5	1595.6	1595.6	1595.6	1601.7	913.4	913.4	913.4									
L-FLG LOG. RIB	SM 490YA																																			
L-FLG THICKNESS	0	0	0	0	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	0	0	0										
L-FLG QUALITY	SM 490YA																																			
L-FLG W=1049 MM	SM 490YB																																			
L-FLG THICKNESS	30	13	19	19	22	42	42	25	22	22	22	22	25	42	42	22	19	13	19	13	30															
U-FLG STRESS	-44	51	-92	-92	-157	-152	-145	-142	161	132	169	206	162	186	-109	-111	-123	-163	-123	-111	-109	186	163	207	168	132	161	-142	-145	-152	-157	-92	-92	-43	50	
L-FLG STRESS	44	-44	88	110	203	188	179	167	-181	-137	-174	-207	-165	-198	129	138	152	197	157	129	-200	-166	-208	-174	-137	-181	167	179	188	203	110	88	44	-44		
WEAR SHEAR STRESS	60	26	56	28	20	13	10	10	67	67	70	32	30	30	43	43	40	20	14	16	16	73	73	27	27	26	25	30	30	26	23	12	24	26	60	
COMBINED STRESS	0.28	0.08	0.30	0.28	0.90	0.78	0.69	0.60	0.85	0.59	0.85	0.91	0.60	0.87	0.43	0.48	0.55	0.83	0.50	0.41	0.36	1.05	0.82	1.15	0.65	0.42	0.72	0.62	0.72	0.78	0.91	0.27	0.21	0.08	0.28	
SECTION GOVERN	LEFT	LEFT	RIGHT	J-1 MAX.	LEFT	J-2 LEFT	J-3 RIGHT	MAX.L	MAX.R	LEFT	J-4 RIGHT	J-5 RIGHT	MAX.	LEFT	J-6 LEFT	J-7 RIGHT	MAX.L	MAX.R	LEFT	J-8 RIGHT	J-9 RIGHT	MAX.	J-10 LEFT	RIGHT	RIGHT											
NET U-FLG STRESS, σ																																				
NET L-FLG STRESS, σ				136			201					197			154																					

W = WIDTH
 H = HEIGHT
 TH = THICKNESS
 STRESS IN N/mm²

MAX. = MAXIMUM
 MAX.R = MAXIMUM RIGHT
 MAX.L = MAXIMUM LEFT

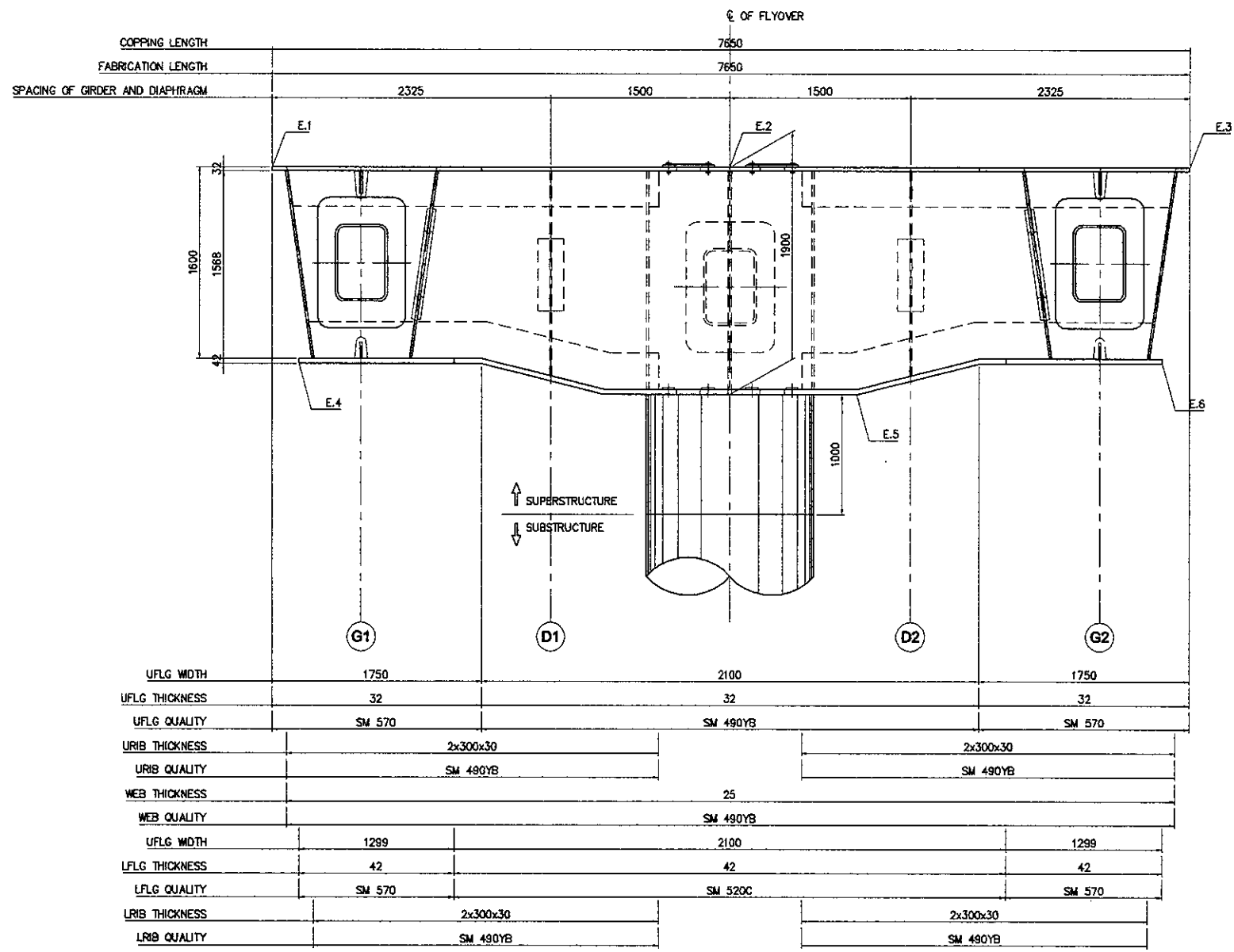
G-1
 REQUIRED CAPACITY



SECTION ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21															
U-FLG, W=1500 MM	14	14	20	20	20	32	32	32	21	21	21	21	21	32	32	32	20	20	20	14	14															
U-FLG QUALITY	SM 490YA		SM 490YB		SM 570		SM 490YB		SM 490YB		SM 570		SM 490YB		SM 570		SM 490YB		SM 490YB		SM 490YA															
U-FLG LOG. RIB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
L-FLG LOG. RIB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0															
L-FLG, W=1049 MM	30	13	19	19	22	42	42	42	25	22	22	22	25	42	42	22	22	19	19	13	30															
L-FLG QUALITY	SM 490YB	SM 490YA	SM 490YB		SM 570		SM 490YB		SM 490YB		SM 490YA		SM 490YB		SM 570		SM 490YB		SM 490YA		SM 490YB															
U-FLG STRESS	-44	51	-92	-92	-157	-145	-142	162	132	169	206	162	186	-109	-111	-123	-123	-111	-109	186	162	206	169	132	162	-142	-145	-157	-92	-92	-43	50				
σ	179	210	124	109	168	168	169	168	210	255	255	255	210	177	177	177	177	177	177	210	255	255	255	210	169	169	169	168	109	124	179	210				
σ-σ	135	159	31	17	12	17	25	27	48	123	86	49	93	24	67	66	53	14	54	66	68	24	93	49	86	123	48	27	25	17	12	17	32	135	160	
L-FLG STRESS	44	-44	88	110	203	188	178	167	-181	-138	-174	-207	-165	-189	129	138	152	197	151	137	128	-200	-166	-207	-174	-138	-181	167	178	188	203	110	88	44	-44	
σ	210	210	210	210	210	210	210	210	245	245	245	245	210	210	210	210	210	210	245	245	245	210	245	245	245	210	210	210	210	210	210	210	210	210		
σ-σ	166	166	122	100	7	22	31	43	29	107	71	38	80	11	81	72	58	13	59	73	81	10	79	38	71	107	29	43	31	22	7	100	122	166	166	
τ	61	26	57	29	21	14	12	12	64	64	68	34	32	32	42	42	39	20	15	17	17	71	71	75	29	28	28	28	28	25	22	12	24	26	60	
τ	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	
τ	0.28	0.08	0.30	0.28	0.90	0.77	0.69	0.60	0.84	0.58	0.83	0.92	0.61	0.88	0.43	0.47	0.55	0.83	0.50	0.42	0.37	1.03	0.80	1.13	0.66	0.43	0.73	0.62	0.71	0.78	0.90	0.27	0.21	0.08	0.28	
SECTION GOVERN	LEFT	RIGHT	J-1 MAX.	LEFT	J-2 LEFT	J-3 RIGHT	MAX.L	MAX.R	LEFT	J-4 RIGHT	J-5 RIGHT	MAX.	LEFT	J-6 LEFT	J-7 RIGHT	MAX.L	MAX.R	LEFT	J-8 RIGHT	J-9 RIGHT	MAX.	J-10 LEFT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	
NET U-FLG STRESS, σ																																				
NET L-FLG STRESS, σ																																				

W = WIDTH
 H = HEIGHT
 TH = THICKNESS
 STRESS IN N/mm²

MAX. = MAXIMUM
 MAX.R = MAXIMUM RIGHT
 MAX.L = MAXIMUM LEFT

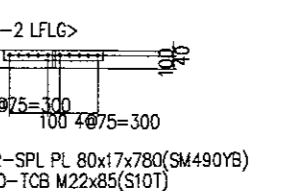
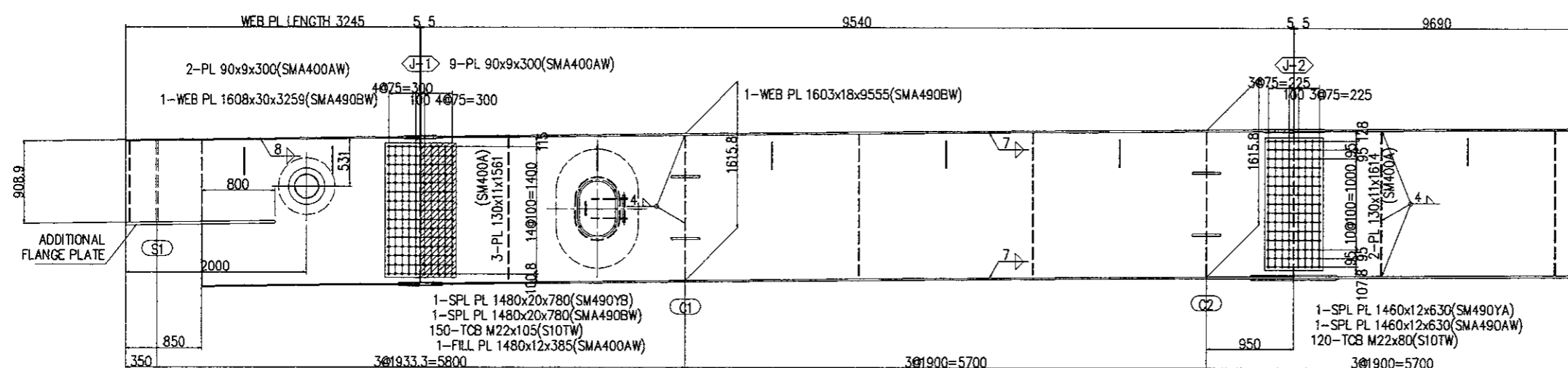
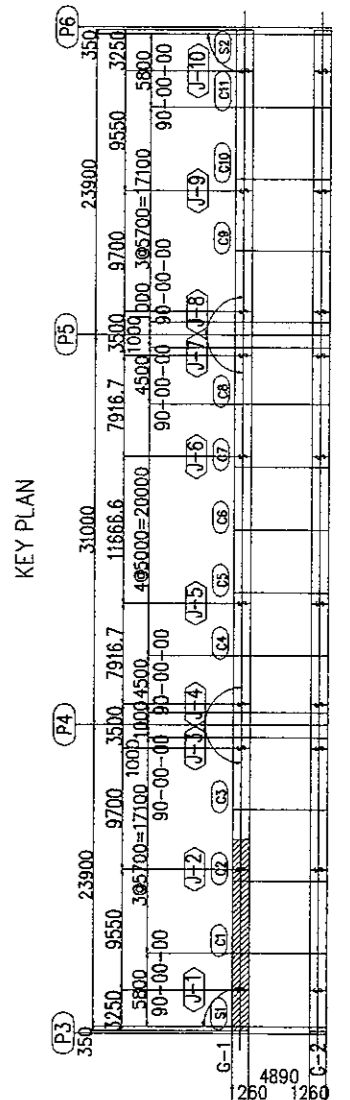
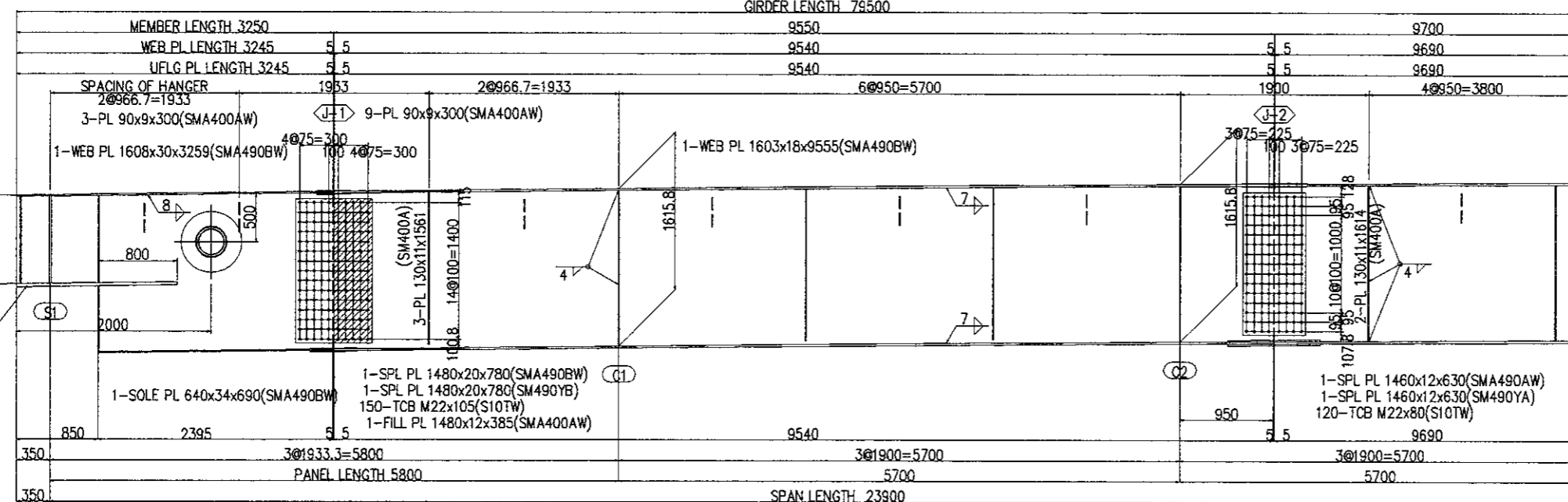
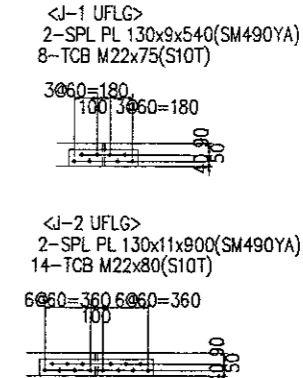
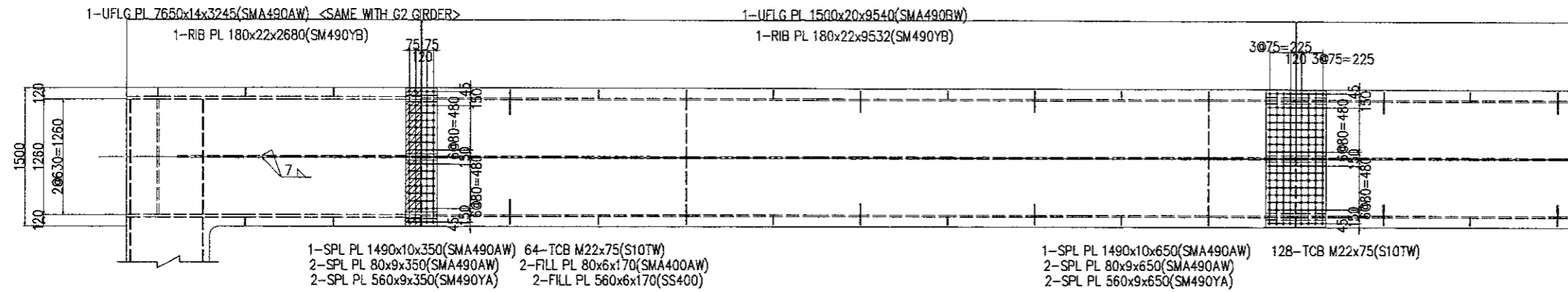


ELEVATION

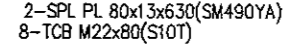
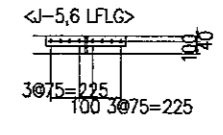
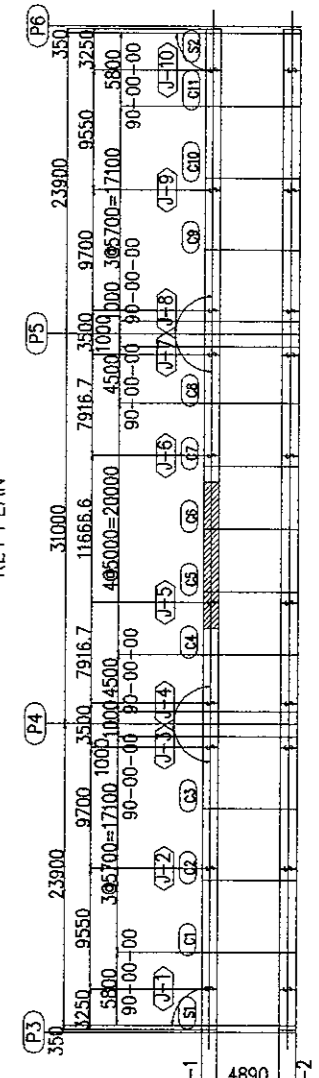
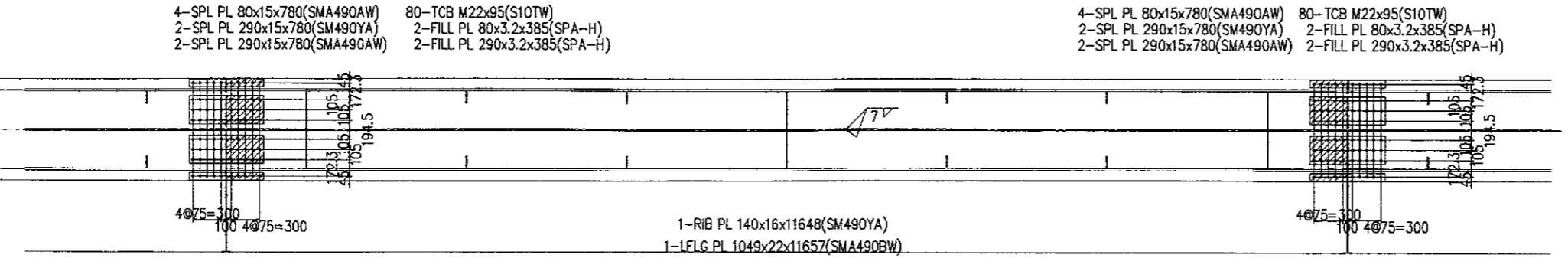
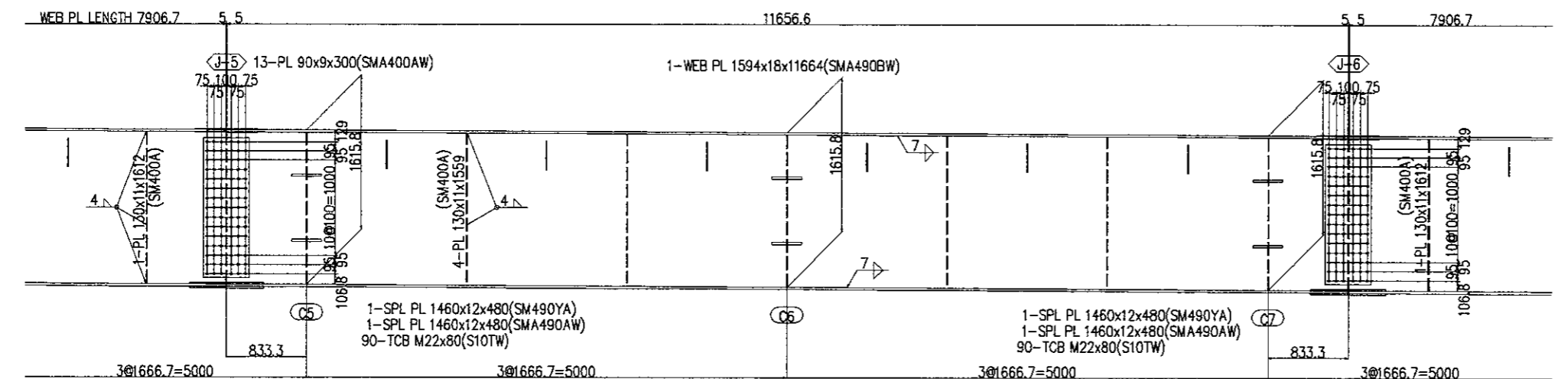
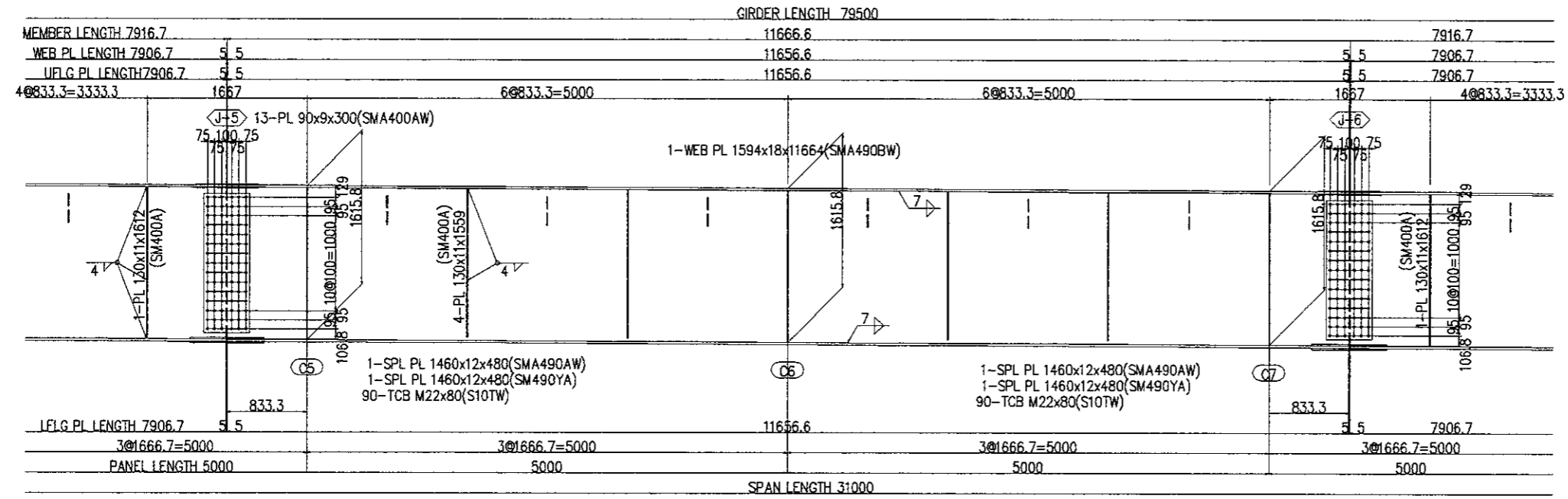
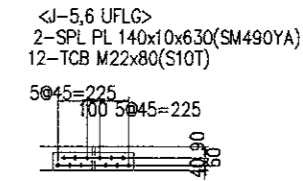
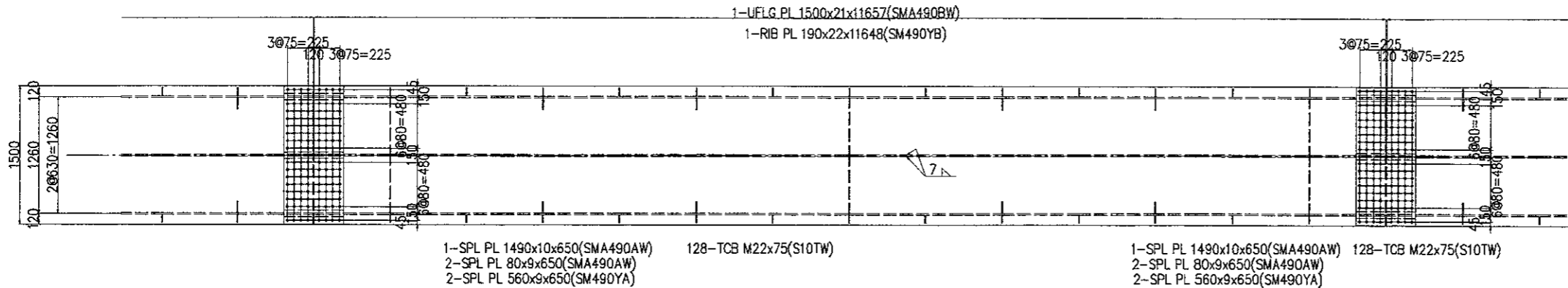
PIER	E.1	E.2	E.3	E.4	E.5	E.6
P4	27.767	27.767	27.767	26.125	25.825	26.125
P5	27.632	27.632	27.632	25.990	25.690	25.990

SECTIONAL DIMENSION OF GIRDER P4 AND P5
 SCALE : 1:50

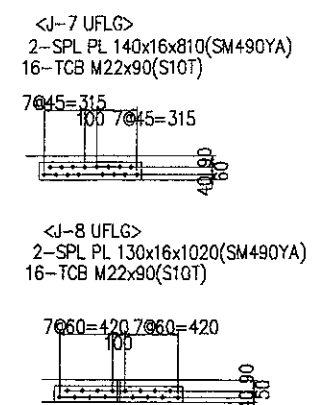
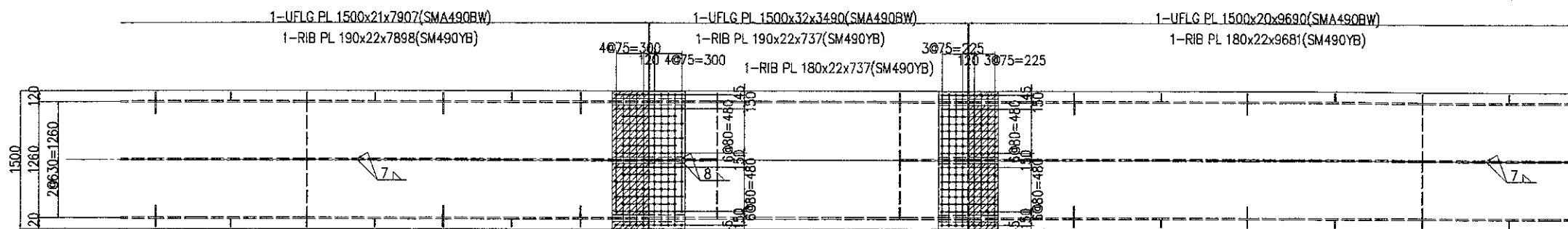
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



- NOTES :
- MARK "*" SHALL BE HIGH TENSION TORSION TYPE BOLT
 - ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
 - SPLICE HOLES IN FLANGE RIB PLATES SHALL BE D=26.50

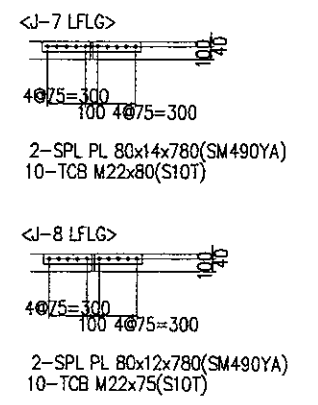
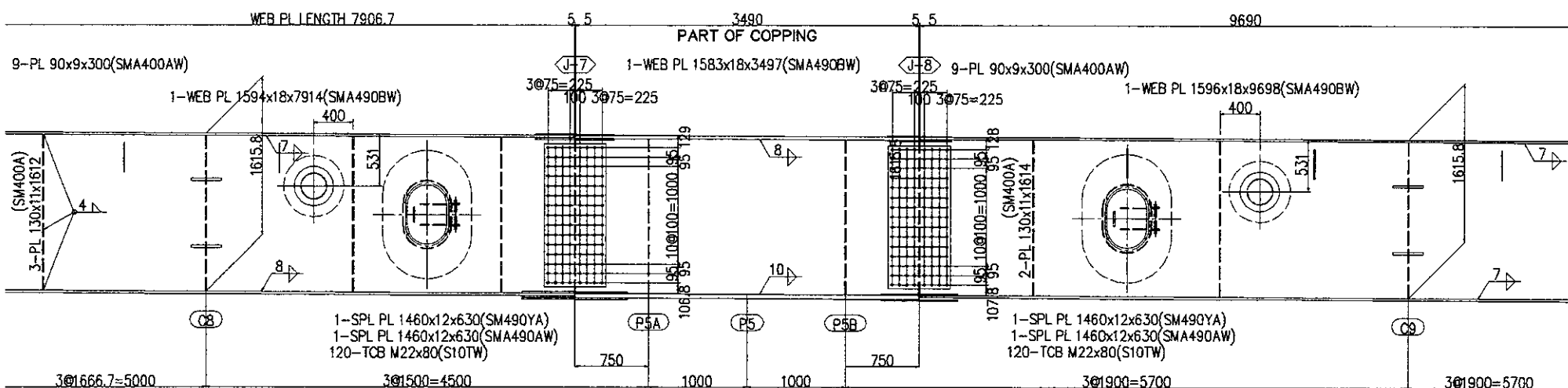
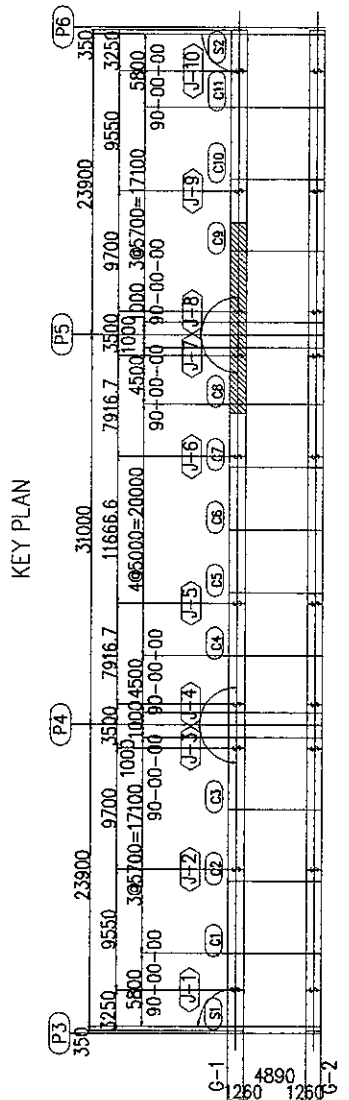
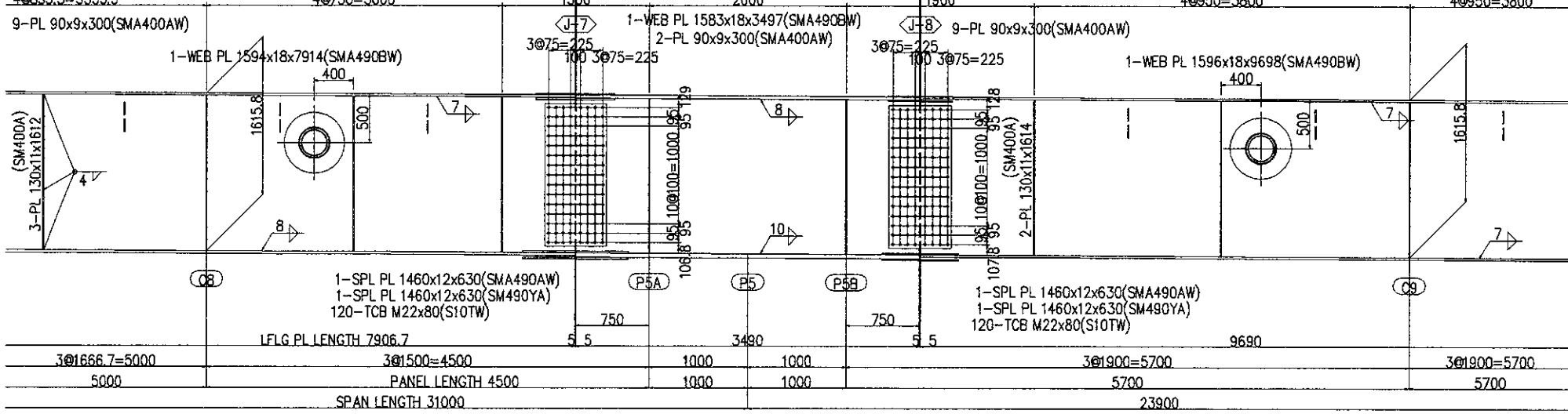


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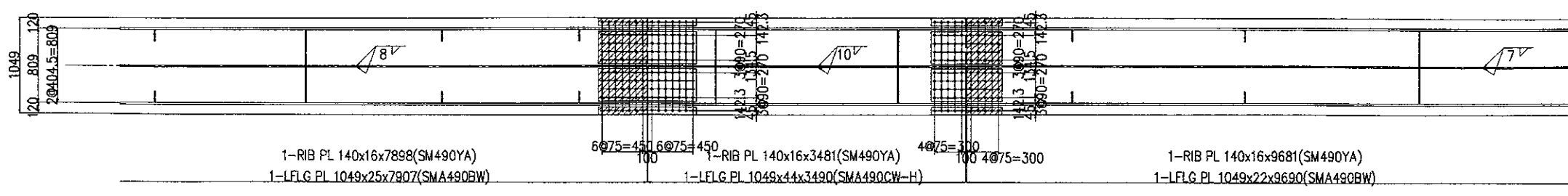


1-SPL PL 1490x13x800(SMA490AW) 2-SPL PL 80x16x800(SMA490AW) 2-SPL PL 560x16x800(SMA490YA)	148-TCB M22x100(S10TW) 2-FILL PL 80x11x395(SMA400AW) 2-FILL PL 560x11x395(SS400)	1-SPL PL 1490x10x650(SMA490AW) 2-SPL PL 80x13x650(SMA490AW) 2-SPL PL 560x13x650(SMA490YA)	128-TCB M22x90(S10TW) 2-FILL PL 80x12x320(SMA400AW) 2-FILL PL 560x12x320(SS400)
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MEMBER LENGTH 7916.7					GIRDER LENGTH 79500				
WEB PL LENGTH 7906.7					3500				
UFLG PL LENGTH 7906.7					9700				
4@833.3=3333.3					3490				
4@750=3000					5.5				
					2000				
					1900				
					4@950=3800				
					4@950=3800				

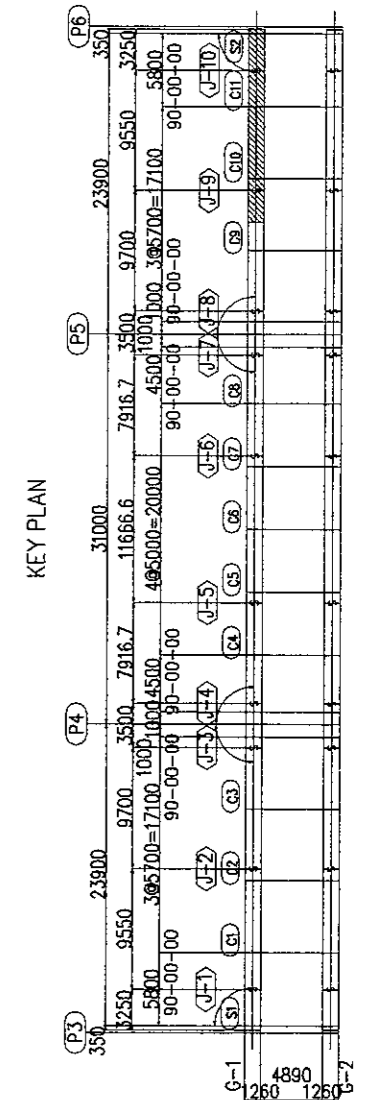
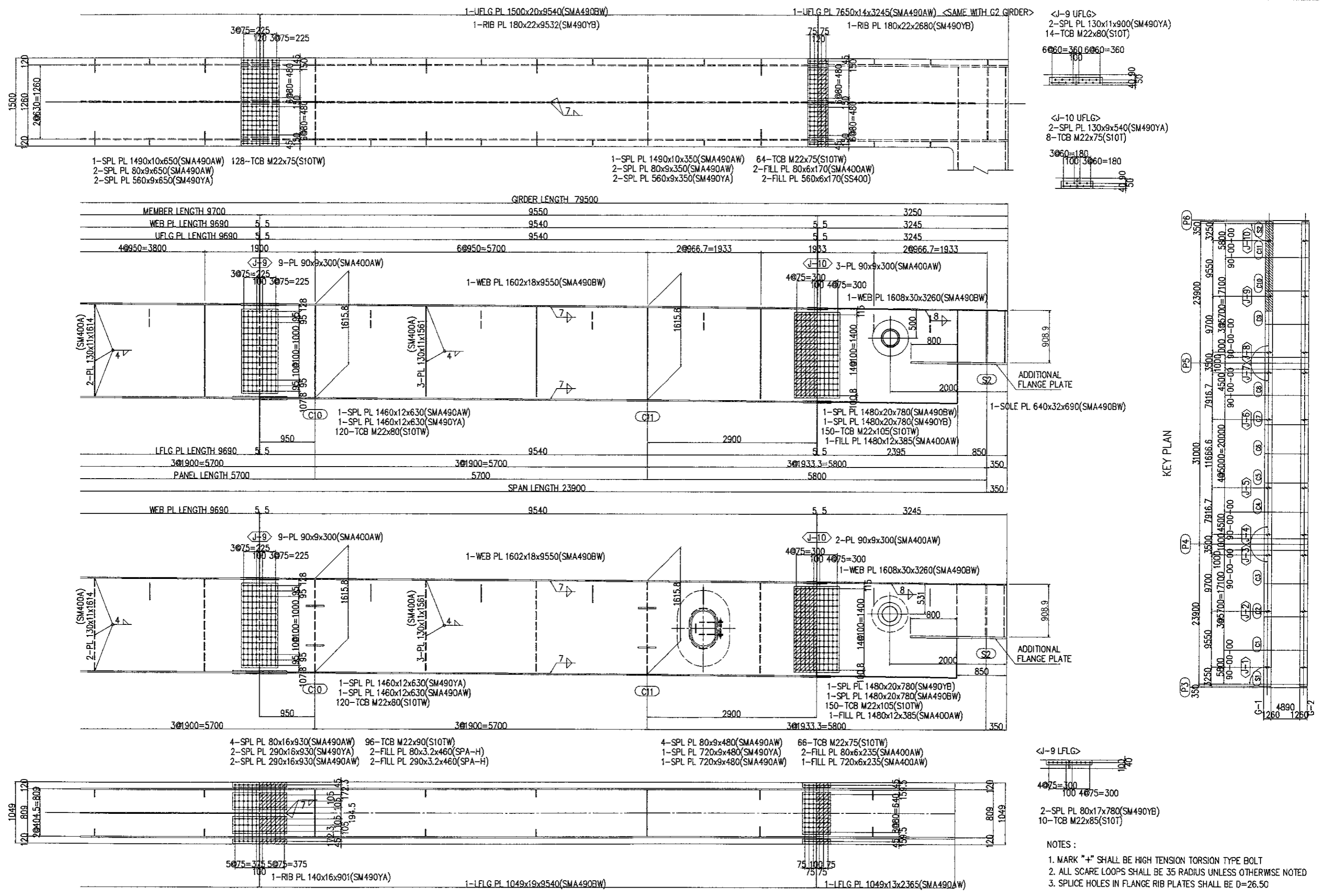


4-SPL PL 80x17x1080(SMA490BW) 2-SPL PL 350x17x1080(SMA490YB) 2-SPL PL 350x17x1080(SMA490BW)	140-TCB M22x115(S10TW) 2-FILL PL 80x19x535(SMA400AW) 2-FILL PL 350x19x535(SMA400AW)	4-SPL PL 80x13x780(SMA490AW) 2-SPL PL 350x13x780(SMA490YA) 2-SPL PL 350x13x780(SMA490AW)	100-TCB M22x105(S10TW) 2-FILL PL 80x22x385(SMA400AW) 2-FILL PL 350x22x385(SMA400AW)
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NOTES :

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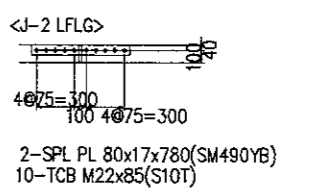
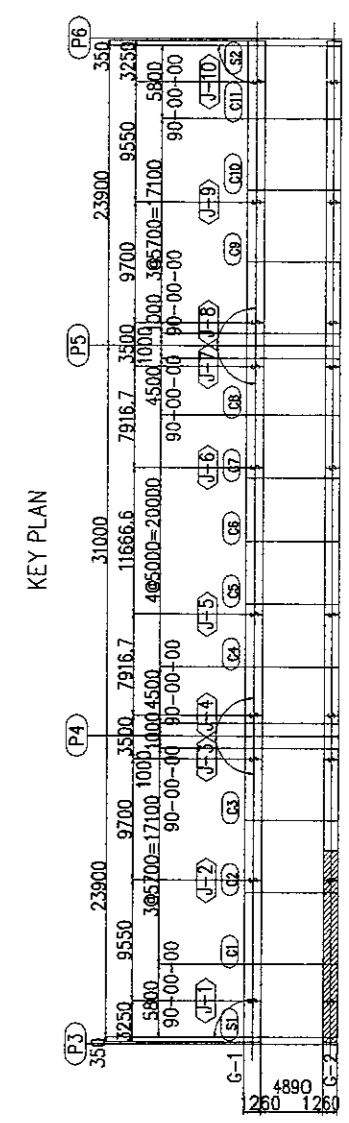
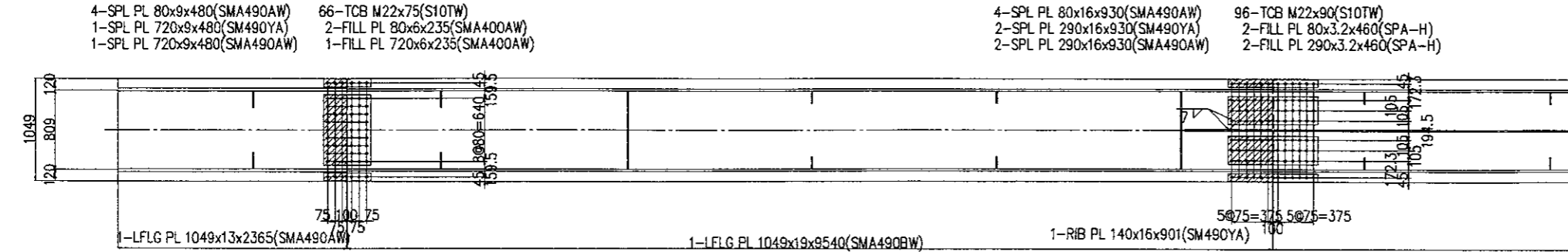
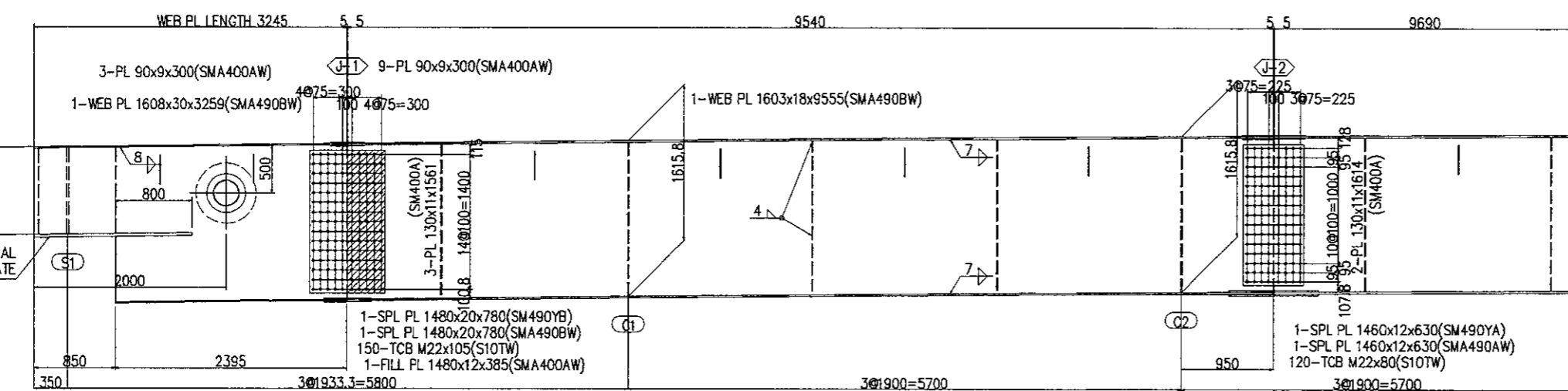
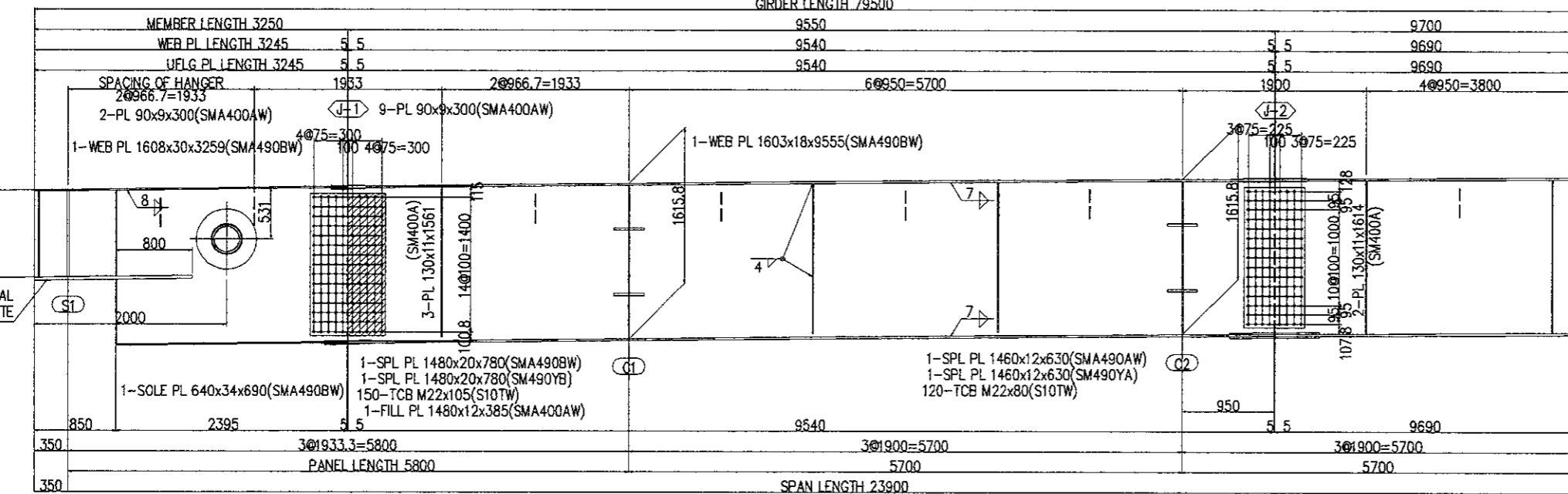
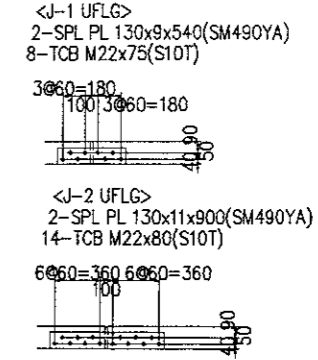
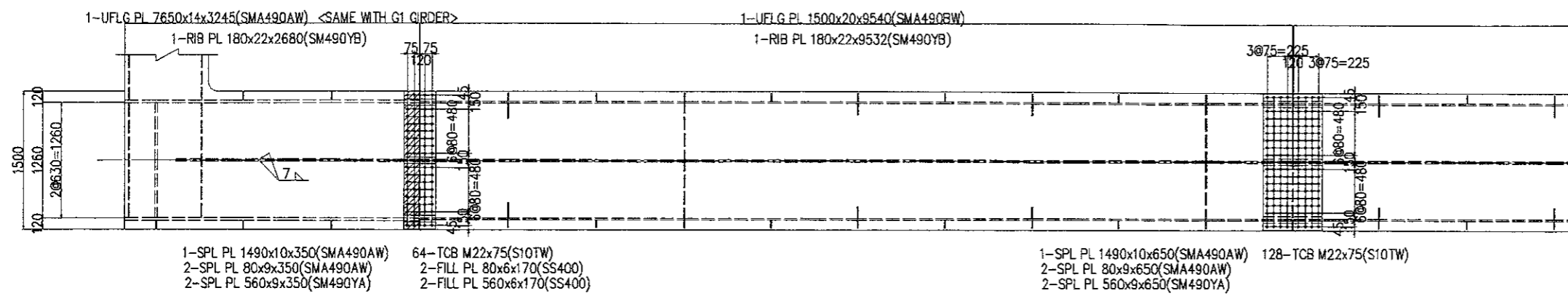
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 2- SPL PL 130x11x900(SM490YA)
 14-TCB M22x80(S10T)
 6@60=360 6@60=360

<J-10 UFLG>
 2- SPL PL 130x9x540(SM490YA)
 8-TCB M22x75(S10T)
 3@60=180 3@60=180

<J-9 LFLG>
 4@75=300 100 4@75=300

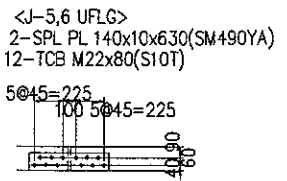
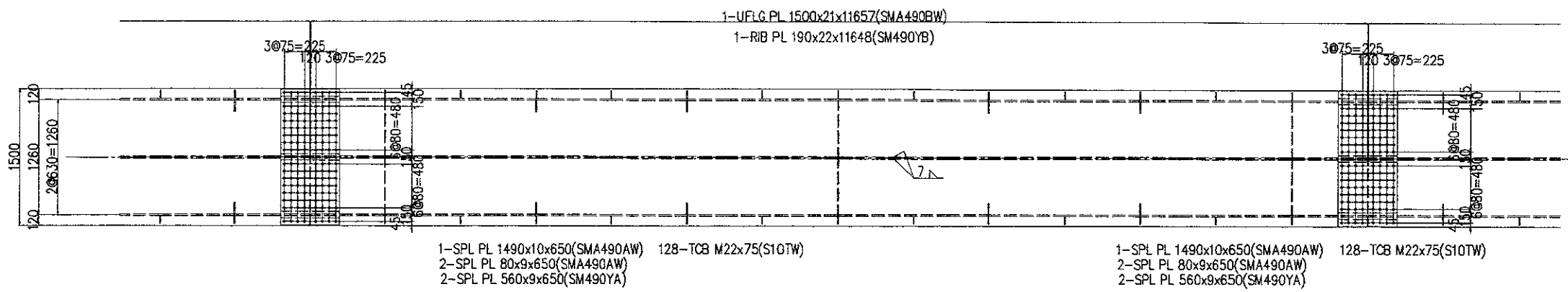
2- SPL PL 80x17x780(SM490YB)
10-TCB M22x85(S10T)

NOTES :
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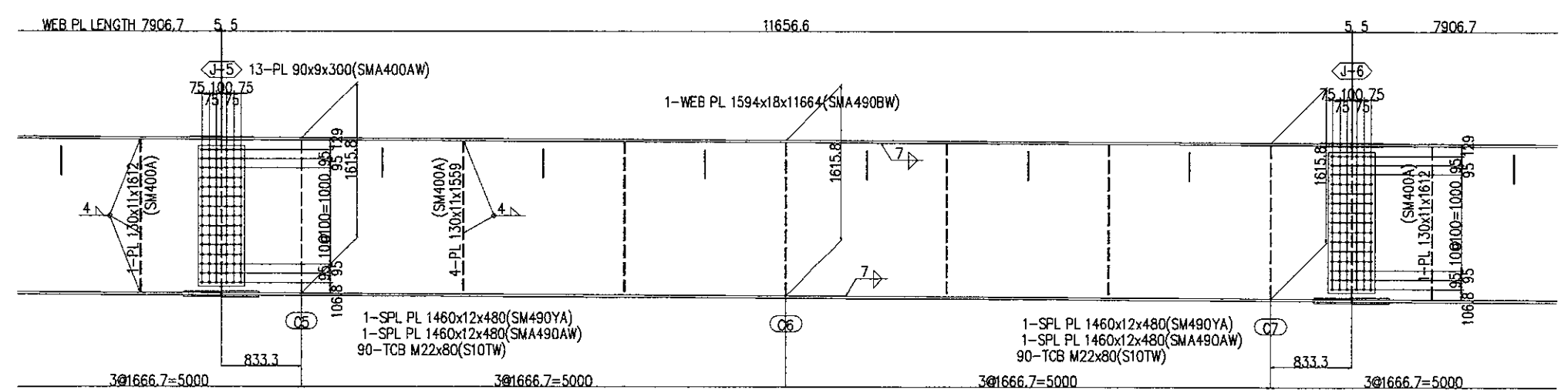
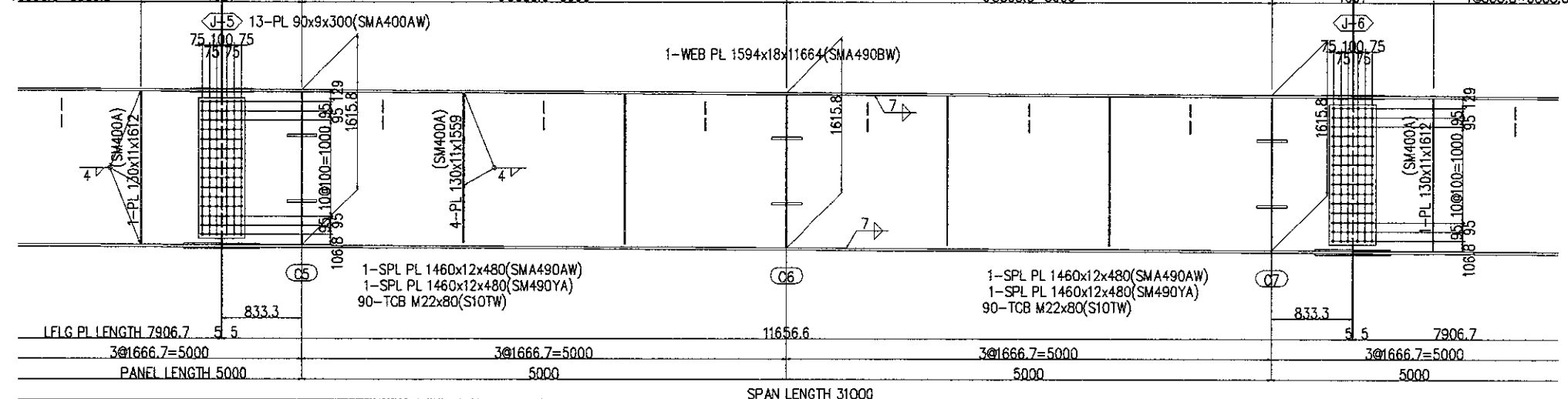


NOTES :

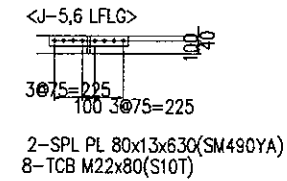
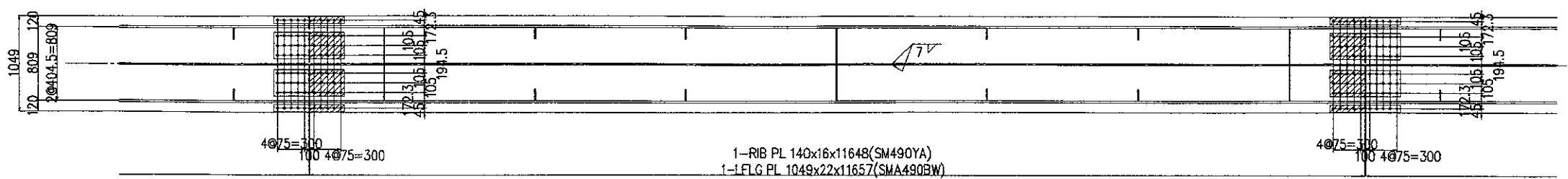
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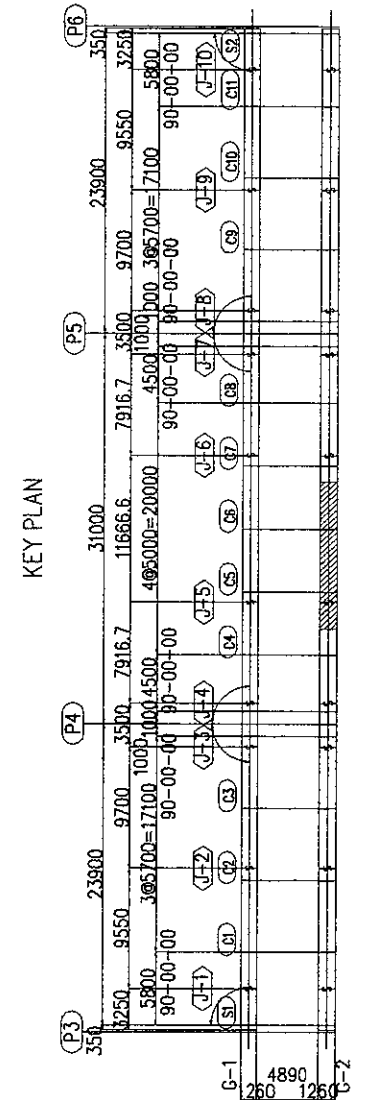
GIRDER LENGTH 79500			
MEMBER LENGTH 7916.7	11666.6	7916.7	
WEB PL LENGTH 7906.7	5.5	11656.6	7906.7
UFLG PL LENGTH 7906.7	5.5	11656.6	7906.7
4@833.3=3333.3	1667	6@833.3=5000	6@833.3=5000

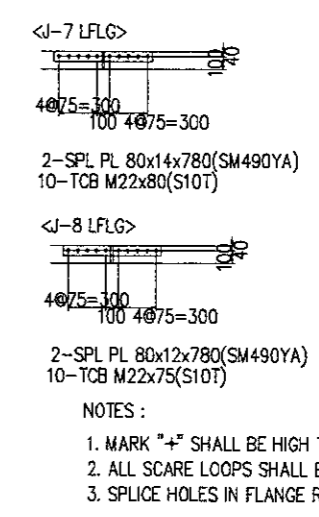
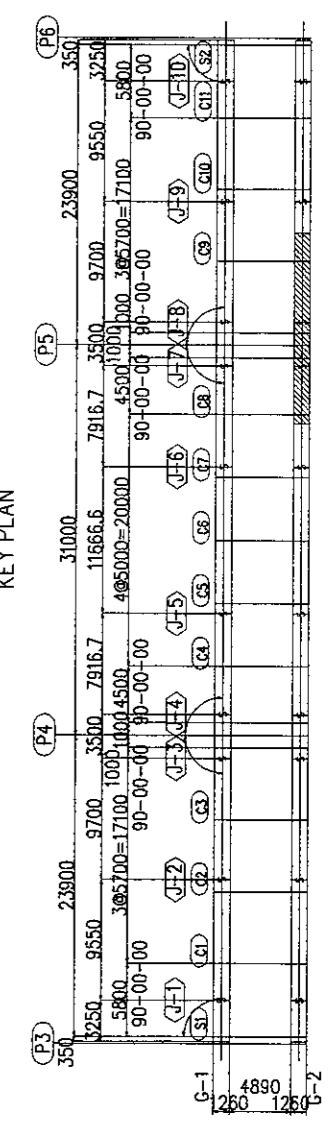
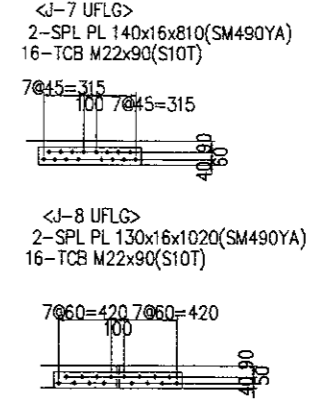
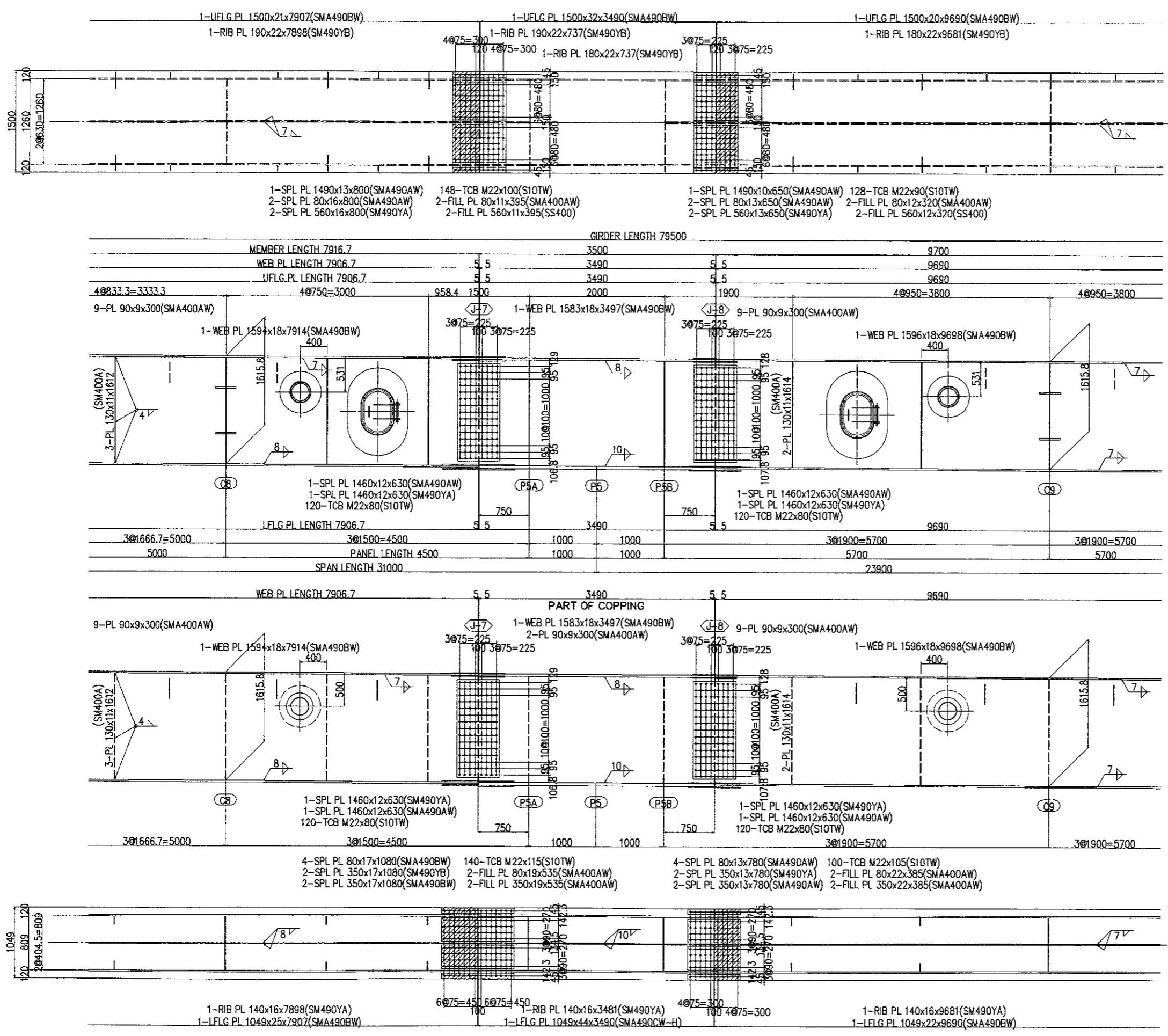


4-SPL PL 80x15x780(SMA490AW)	80-TCB M22x95(S10TW)	4-SPL PL 80x15x780(SMA490AW)	80-TCB M22x95(S10TW)
2-SPL PL 290x15x780(SMA490YA)	2-FILL PL 80x3.2x385(SPA-H)	2-SPL PL 290x15x780(SMA490YA)	2-FILL PL 80x3.2x385(SPA-H)
2-SPL PL 290x15x780(SMA490AW)	2-FILL PL 290x3.2x385(SPA-H)	2-SPL PL 290x15x780(SMA490AW)	2-FILL PL 290x3.2x385(SPA-H)



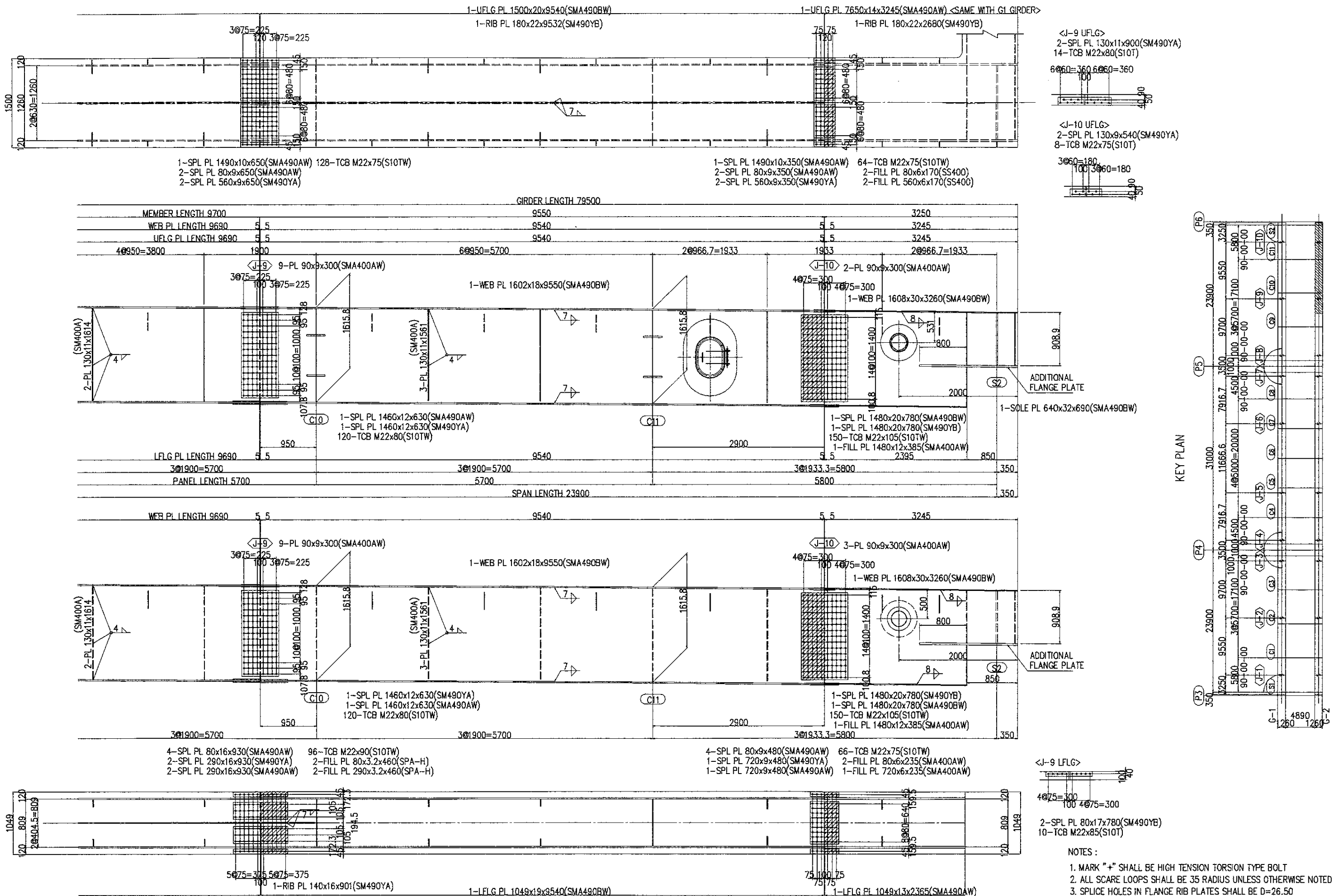
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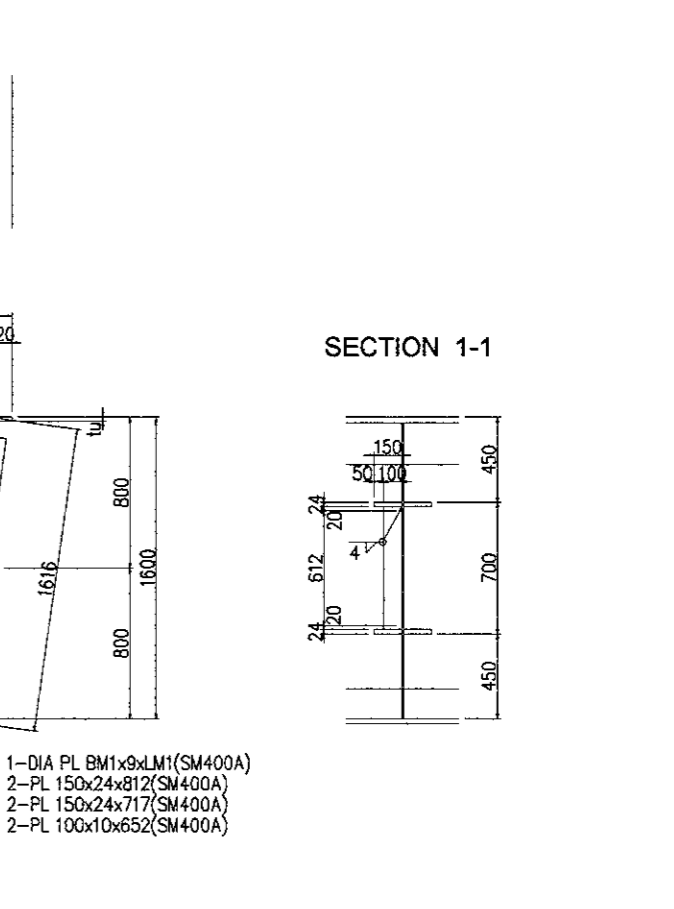
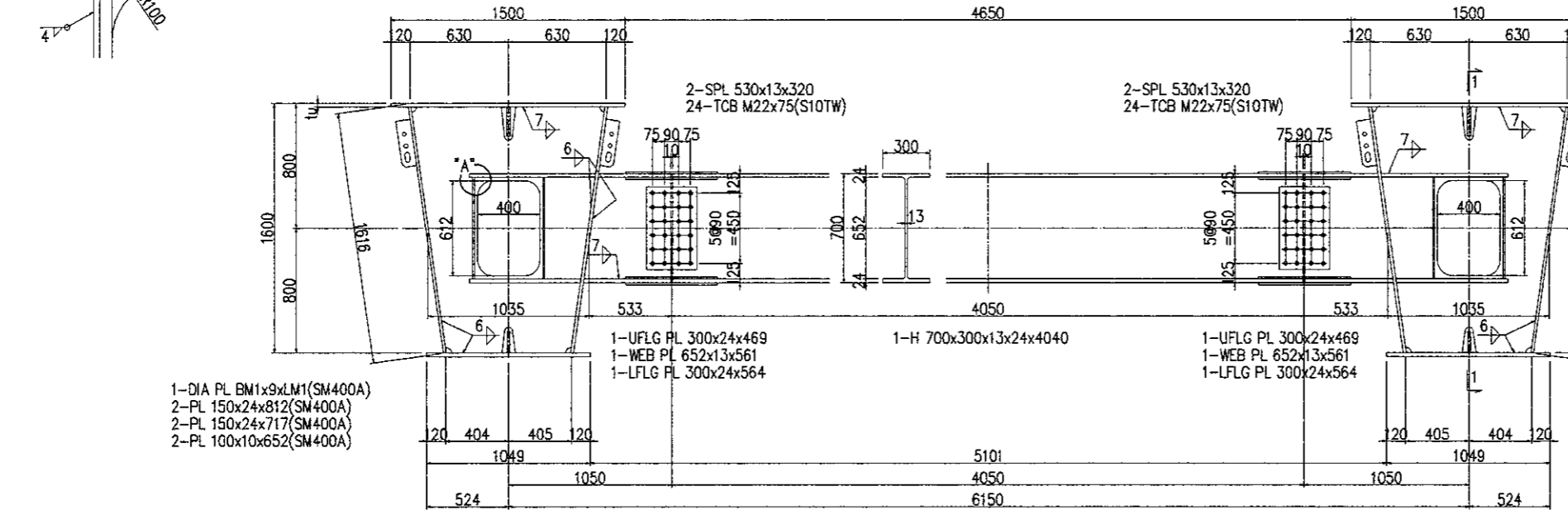
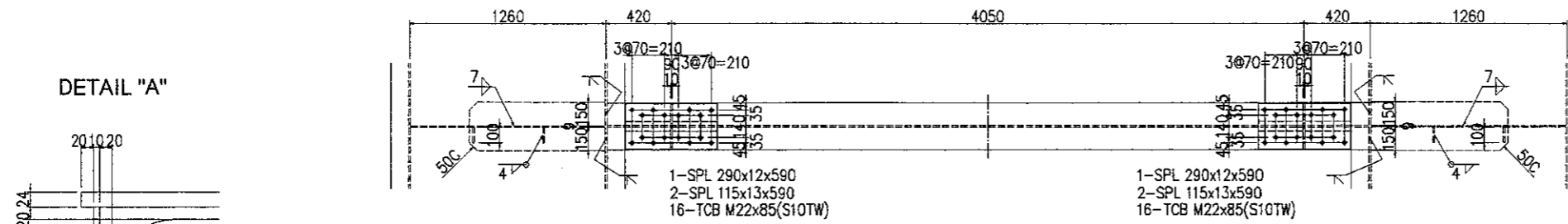




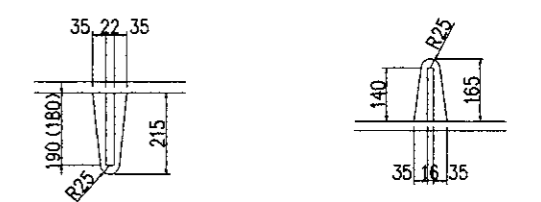
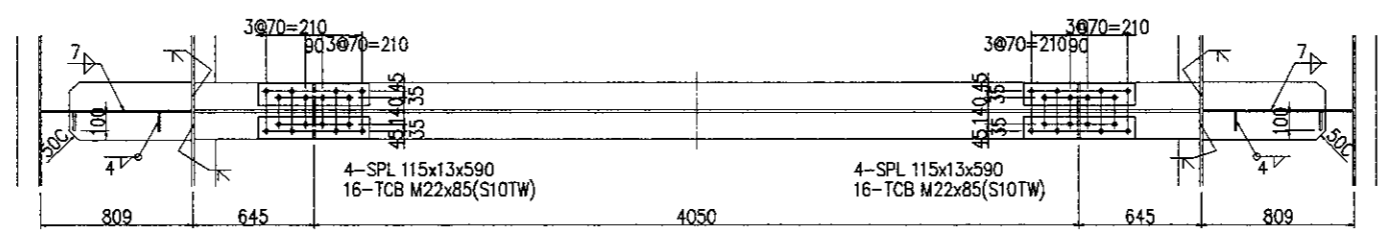
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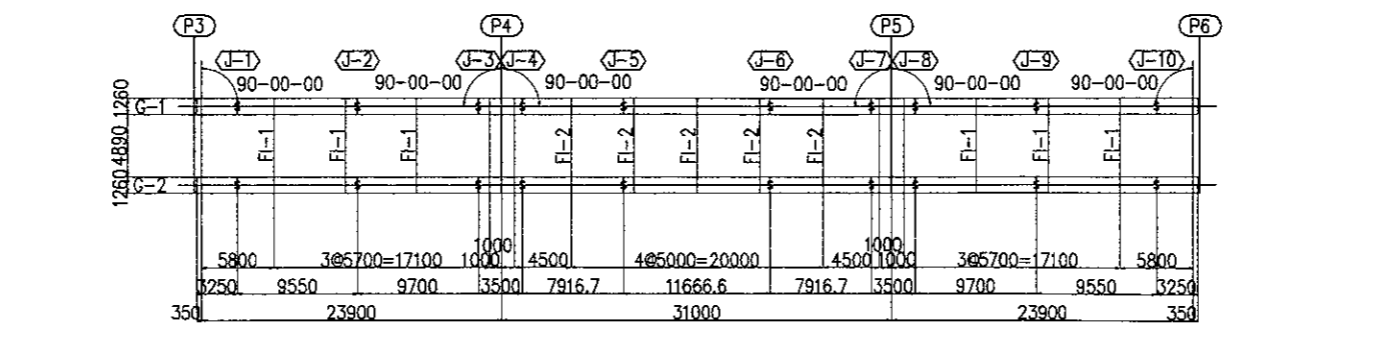




	Fl-1	Fl-2
tu	20	21
BM1	1580	1579
LM1	1245	1244



UPPER FLANGE **LOWER FLANGE**



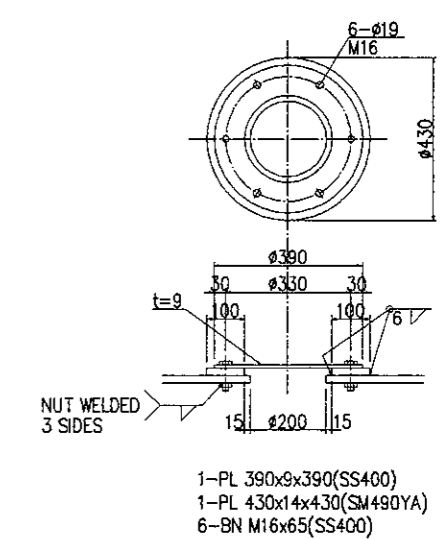
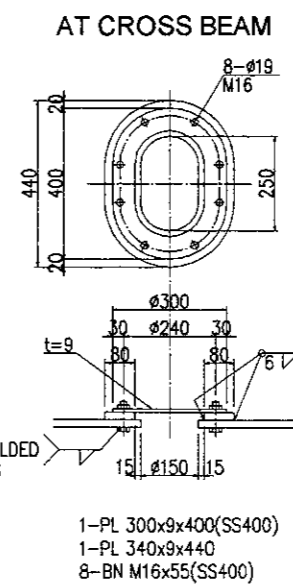
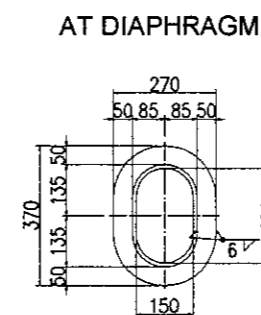
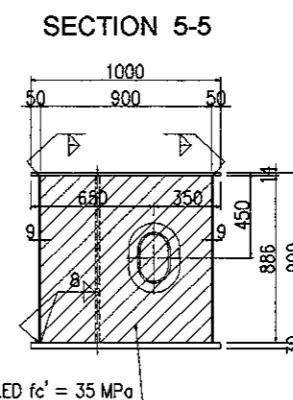
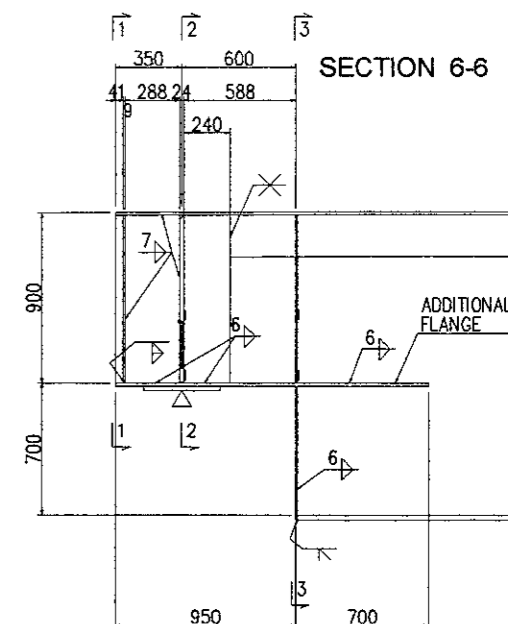
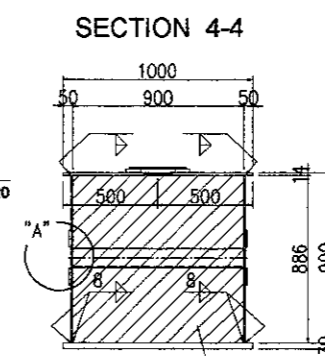
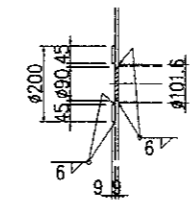
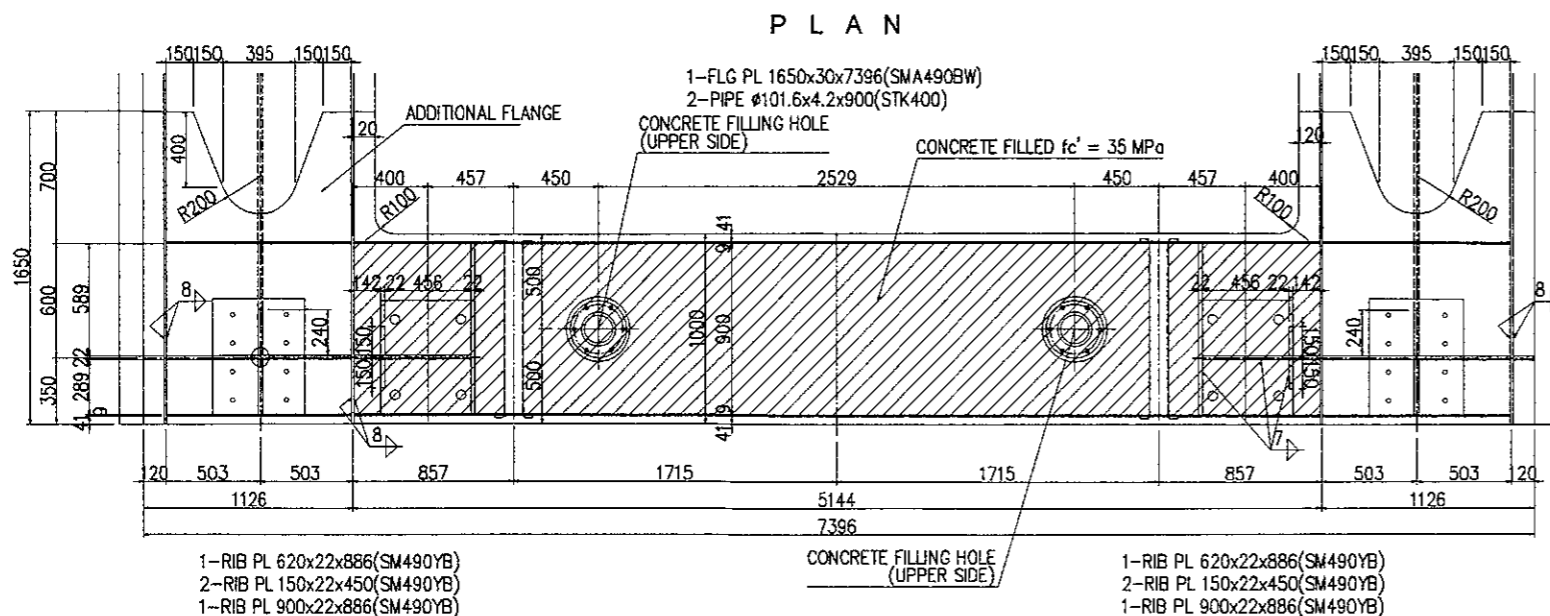
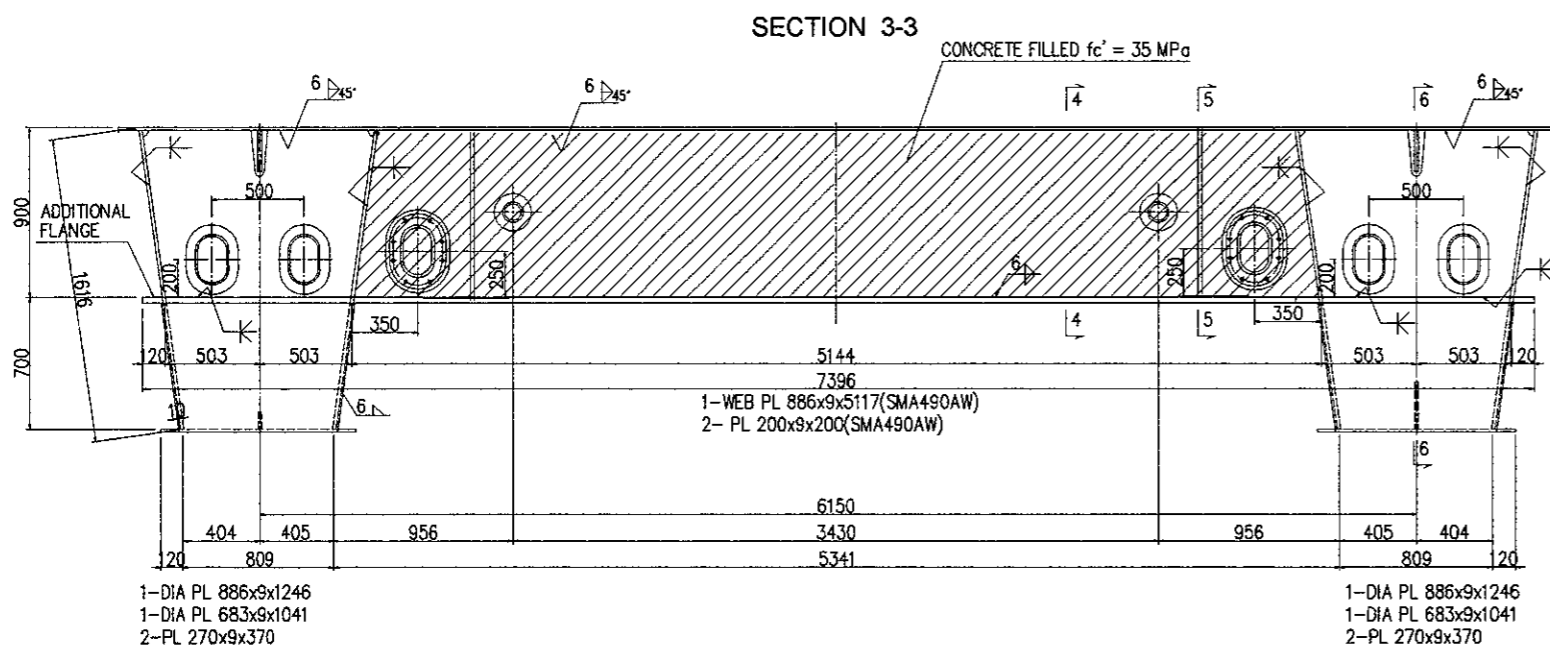
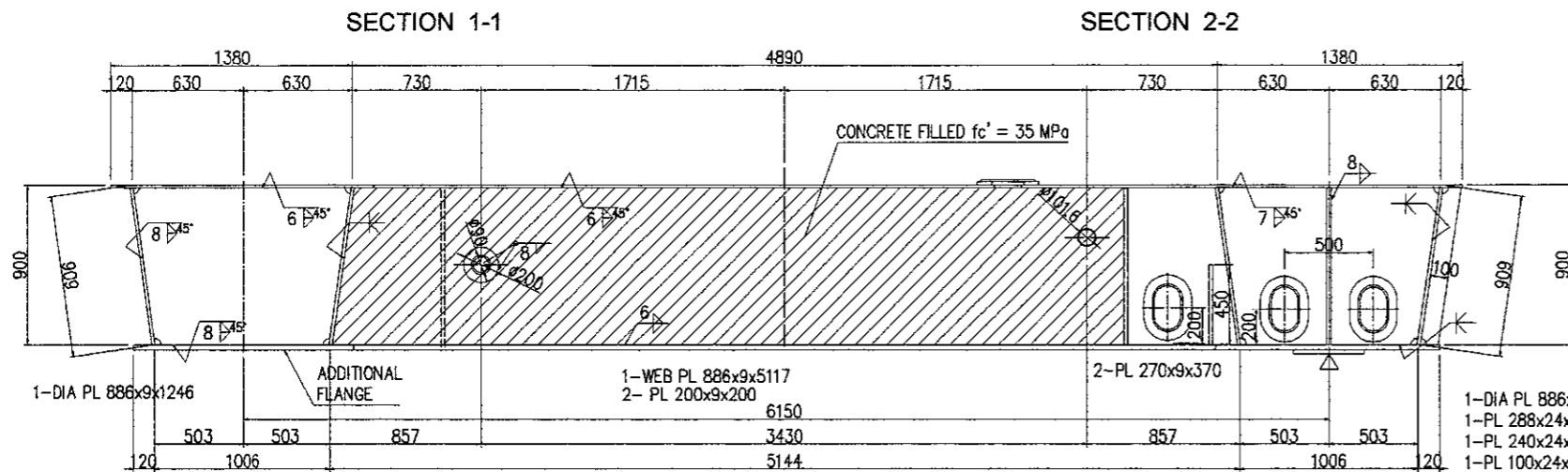
KEY PLAN
 SCALE : 1:400

SCARE LOOPS FOR RIB PLATE
 SCALE : 1:20

NOTE :

- ALL STEEL GRADE SHALL BE SMA400AW UNLESS OTHERWISE NOTED
- MARK "+" SHALL BE HIGH TENSION TORSION TYPE BOLT
- ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED

ELEVATION



DETAIL OF MAN HOLE
 SCALE : 1:20

CONCRETE FILLING HOLE
 SCALE : 1:20

NOTE :
 1. ALL STEEL GRADE SHALL BE SM490YA UNLESS OTHERWISE NOTED
 2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED