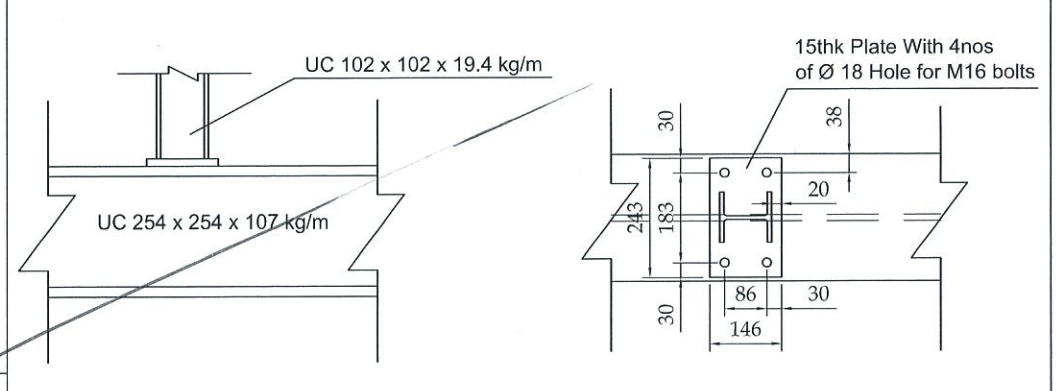
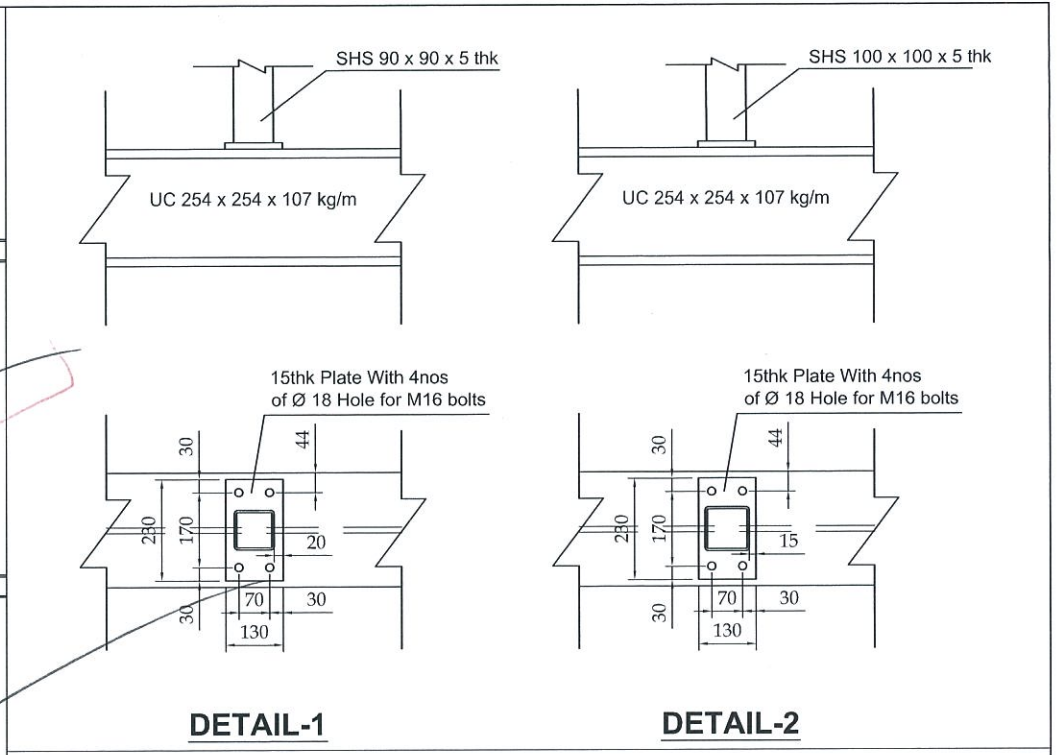
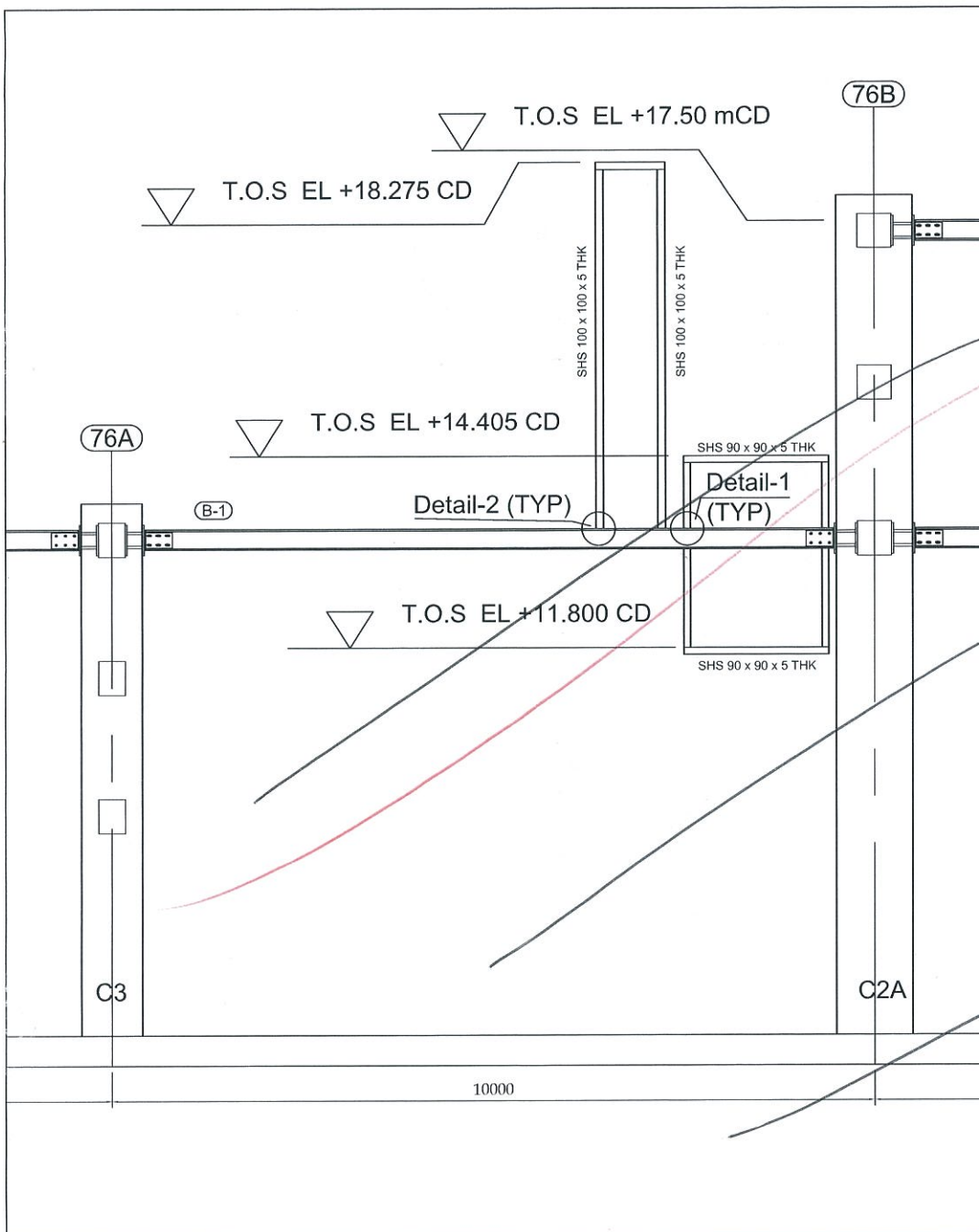


LPS 301

* OPERATING PLATFORM [OUTSIDE LPS 301]

* WORKING PLATFORM | OPERATING [INSIDE LPS 301]

* CRANE SUPPORT PLATFORM



**ALTERNATE CONNECTION FOR DETAIL 1 & 2
WITH THE SQUARE HOLLOW SECTION REPLACED TO I-BEAM
UC 102 x 102 x 19.4 KG/M.**

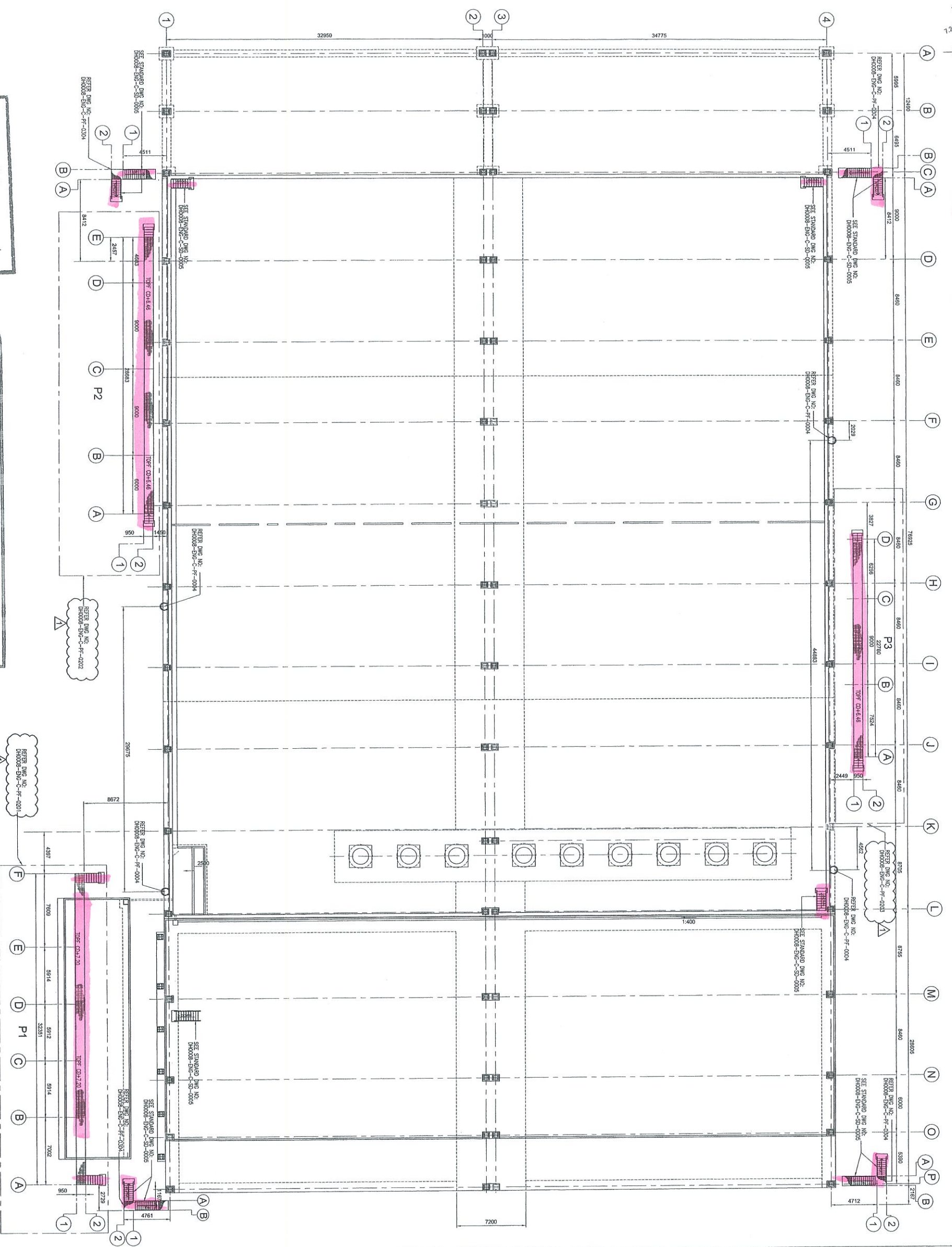
GENERAL NOTES 1. THIS CONNECTION DETAIL IS TYPICAL AND SHALL BE APPLIED TO ALL SIMILAR CONNECTIONS IN OTHER GRIDS	TOA (M) SDN BHD					SHIP DRAWING BY: SZ SHIAO FOOK ENGINEERING & CONSTRUCTION WORKS SDN BHD <small>NO. 25, JALAN PINGGIRAN 25, DORZOS HILLS, 79100 BANDAR NEUAJAYA, JOHORE</small>	DRAW BY: NS	CHECK BY:	CLIENT: DIALOG E & C SDN.BHD.	DWG NO.: SZ-PGJ-JB-013-PCD-ADD-101	REV: 00	
	STATU CODE:	1	2	3	4							5
	DOC TYPE:	CHECK BY:	DEPARTMENT:	DATE:								
	1-REJECTED;2-COMMENTS AS NOTE;3-MINOR COMMENTS ACCEPTED 4-NO COMMENTS;5-INFO ONLY											
	<small>THIS DRAWING / DOCUMENT CONTAINS INFORMATION OF PROPRIETARY NATURE AND IS DELIVERED ON EXPRESS CONDITION THAT IT IS NOT TO BE DISCLOSED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT FROM THE MANAGEMENT OF SHIAO FOOK ENGINEERING PTE LTD.</small>											
						DATE: 17/06/2013	DRAWN TO SCALE	DRG No. -	REV			

PROJECT TITLE
I.D.P TERMINAL AT PENERANG
MARINE FACILITIES

DESCRIPTION
PROPOSED CONNECTION DETAIL FOR
SQUARE HOLLOW SECTION CONNECTION
WITH TIE BEAM

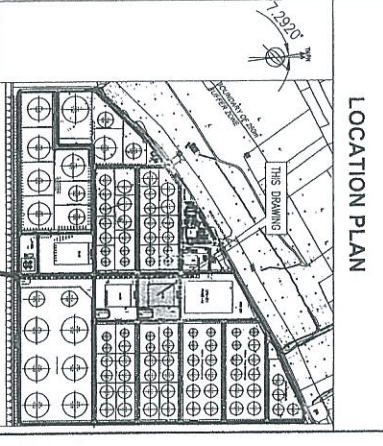


- OUTSIDE LPS 301

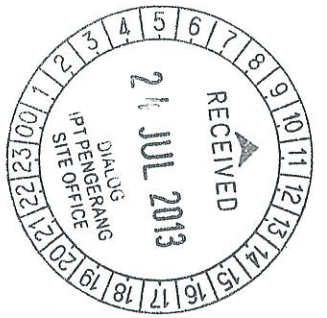


COPY 2.3

APPROVED FOR CONSTRUCTION



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS.
 2. FOR STRUCTURE OVERALL MASTER REFER TO DING NO DH0008-ENG-C-SI-0001.
 3. PENGANG OVERALL MASTER REFER TO DING NO DH0008-ENG-G-0001.
 4. ALL CONNECTIONS ARE BOLTED CONNECTIONS.
 5. ALL THE STRUCTURAL MEMBERS HAVE TO BE HOT DIPPED GALVANIZED.



Independent Deepwater Petroleum Pengerang Terminal s.k.t Pengerang, Johor, Johore A. 27281-1	Proj No	05009
Drawn	By	Wan
Checked	By	Wan
Scale	As Shown	
Proj No	05009	
Proj Name	Independent Deepwater Petroleum Pengerang Terminal s.k.t	
Proj Loc	Pengerang, Johor, Johore	
Proj No	05009	
Proj Name	Independent Deepwater Petroleum Pengerang Terminal s.k.t	
Proj Loc	Pengerang, Johor, Johore	

NO	DESCRIPTION	BY	CHK'D	APPR.	DATE
1	APPROVED FOR CONSTRUCTION	Wan	Wan		08.07.13
0	ISSUED FOR APPROVAL	Wan	Wan		08.06.13
A	ISSUED FOR REVIEW	Wan	Wan		31.05.13

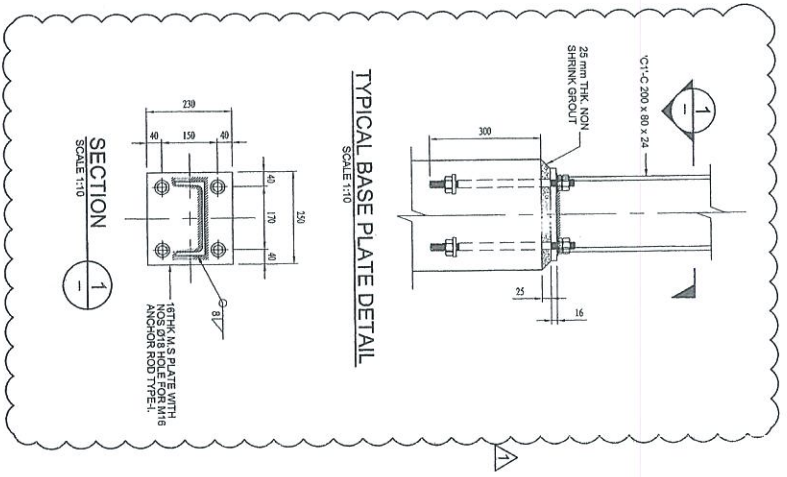
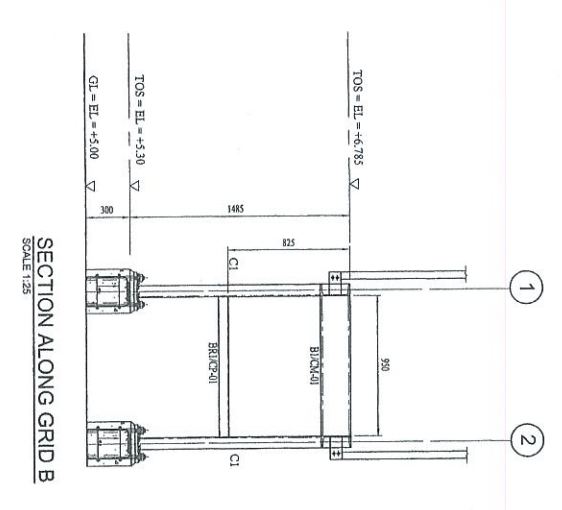
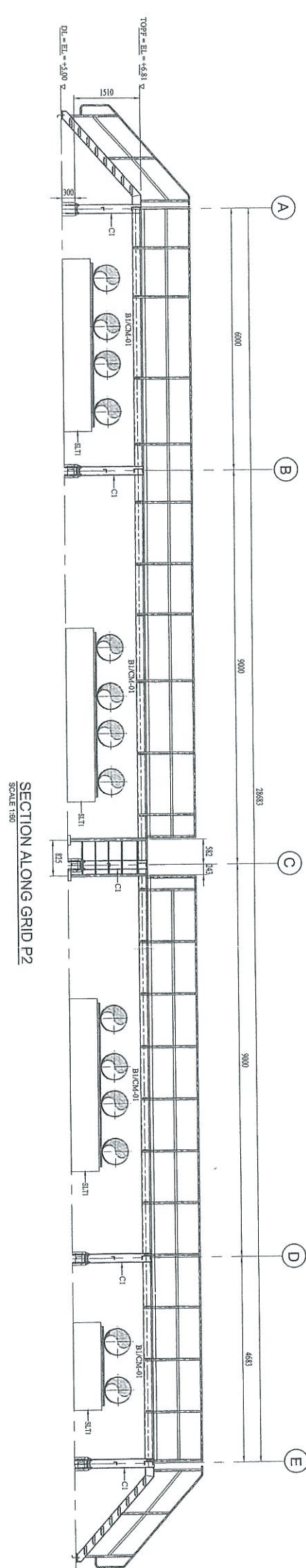
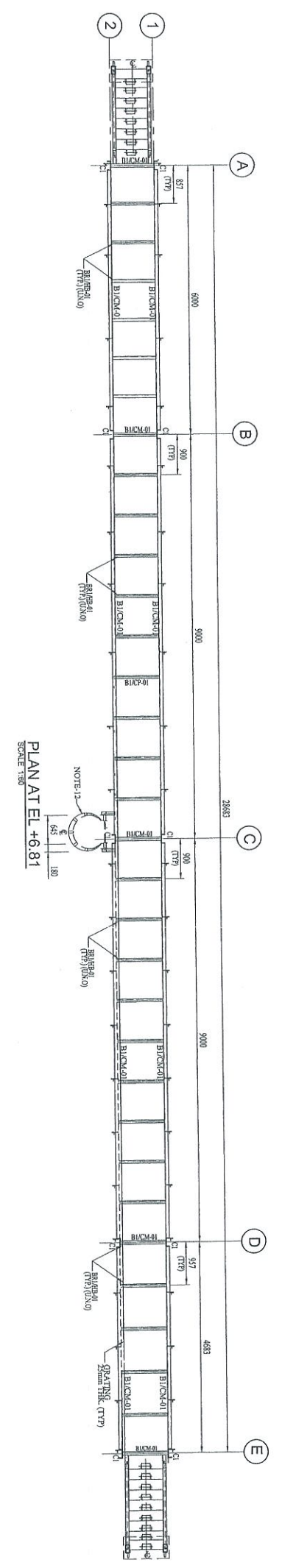
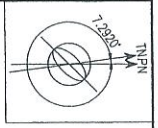
PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

PROJECT OWNER :
PENGERANG INDEPENDENT TERMINALS SDN. BHD.

EPCC CONTRACTOR :
DIALOGS
109, BLOCK 6, PILED DUMASRA 1,
NO. 9, JALAN 16/11, 46350 PETALING LAYA, SELANGOR.

DRAWING TITLE :
OPERATING PLATFORM FOR LPS 301

SCALE : AS SHOWN	CHECKED : WK/ZZ
DRAWN : NO	APPROVED : LKA
DATE : MAY 2013	FILENAME : DH0008-ENG-C-PF-0200
DWG. NO : DH0008-ENG-C-PF-0200	SHT. NO. REV.
	1 OF 1 1



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS & LENGTHS IN METERS
2. READ THIS DWG. IN CONJUNCTION WITH
DWG. No: DH0008-ENG-C-PF-300
FOR LOCATION/ORIENTATION AND OVERALL PLAN.
3. FOR STRUCTURE NOTES REFER TO DWG NO:
DH0008-ENG-C-NI-0001.
4. PENGERANG OVERALL MASTER PLOT PLAN REFER
DWG. No: DH0008-ENG-P-0-0001.
5. FOR STAIRCASE & FOUNDATION DETAILS REFER
DWG. No: DH0008-ENG-C-PF-0017 & 0028.
6. FOR STANDARD CONNECTION DETAILS REFER
DWG. No: DH0008-ENG-C-SO-0011 TO 0020.
7. FOR STANDARD ANCHOR BOLT DETAILS REFER
DWG. No: DH0008-ENG-C-SO-0001.
8. FOR STANDARD HANGING DETAILS REFER
DWG. No: DH0008-ENG-C-SO-0003.
9. ALL CONNECTIONS ARE BOLTED CONNECTIONS.
10. ALL THE STRUCTURAL MEMBERS HAVE TO BE
HOT DIPPED GALVANIZED.
11. PIPE STEEPER DETAIL REFER DWG NO DH0008-ENG-C-PS-0002
12. FOR STANDARD CHIEF LADDER DRAWING REFER DH0008-ENG-C-SI-0004
13. FOR STANDARD STAIRCASE DETAILS REFER DH0008-ENG-C-SI-0005
14. FOR STANDARD FLOOR GRADING DETAILS REFER DH0008-ENG-C-SI-0007
15. FOR STANDARD FOOTING DETAILS REFER DWG:DH0008-ENG-C-PF-0038

ABBREVIATION:

- B1/PF-01 B1 = MEMBER SIZE & PF-01 = CONNECTION TYPE
 100. = TOP OF GRADING.
 FFL = FINISHED PLATFORM LEVEL.
 GL = GROUND LEVEL.
 FW = FILET WELD 5mm U.O.S



LEGENDS:

MARKING	SIZE	NOTE
CH	C 200 x 80 x 24 MGNM	COLUMN
B1	C 200 x 80 x 24 MGNM	BEAM
BH1	L 65 x 65 x 4	HE

NO	DESCRIPTION	BY	CHK'D	APPR.	DATE
1	APPROVED FOR CONSTRUCTION				08.07.13
0	ISSUED FOR APPROVAL				07.06.13
A	ISSUED FOR REVIEW				28.05.13

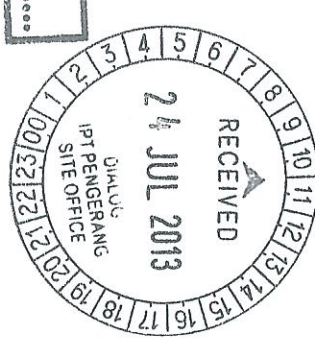
PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG
 PROJECT OWNER :
PENGERANG INDEPENDENT TERMINALS SDN. BHD.

EPCC CONTRACTOR :
DIALOG E & C SDN. BHD. (19290-U)
 109, BLOCK G, PHASED DEVELOPMENT 1,
 NO. 9, JALAN 16/11, 46350 PETALING JAYA, SELANGOR

DRAWING TITLE :
PLAN & SECTIONAL DETAILS OF CROSSOVER PLATFORM (P2) FOR LPS 301

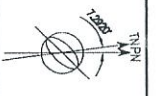
SCALE : NTS
 DRAWN : NO
 DATE : MAY 2013
 DWG. NO : **DH0008-ENG-C-PF-0202**

COPY 2.3

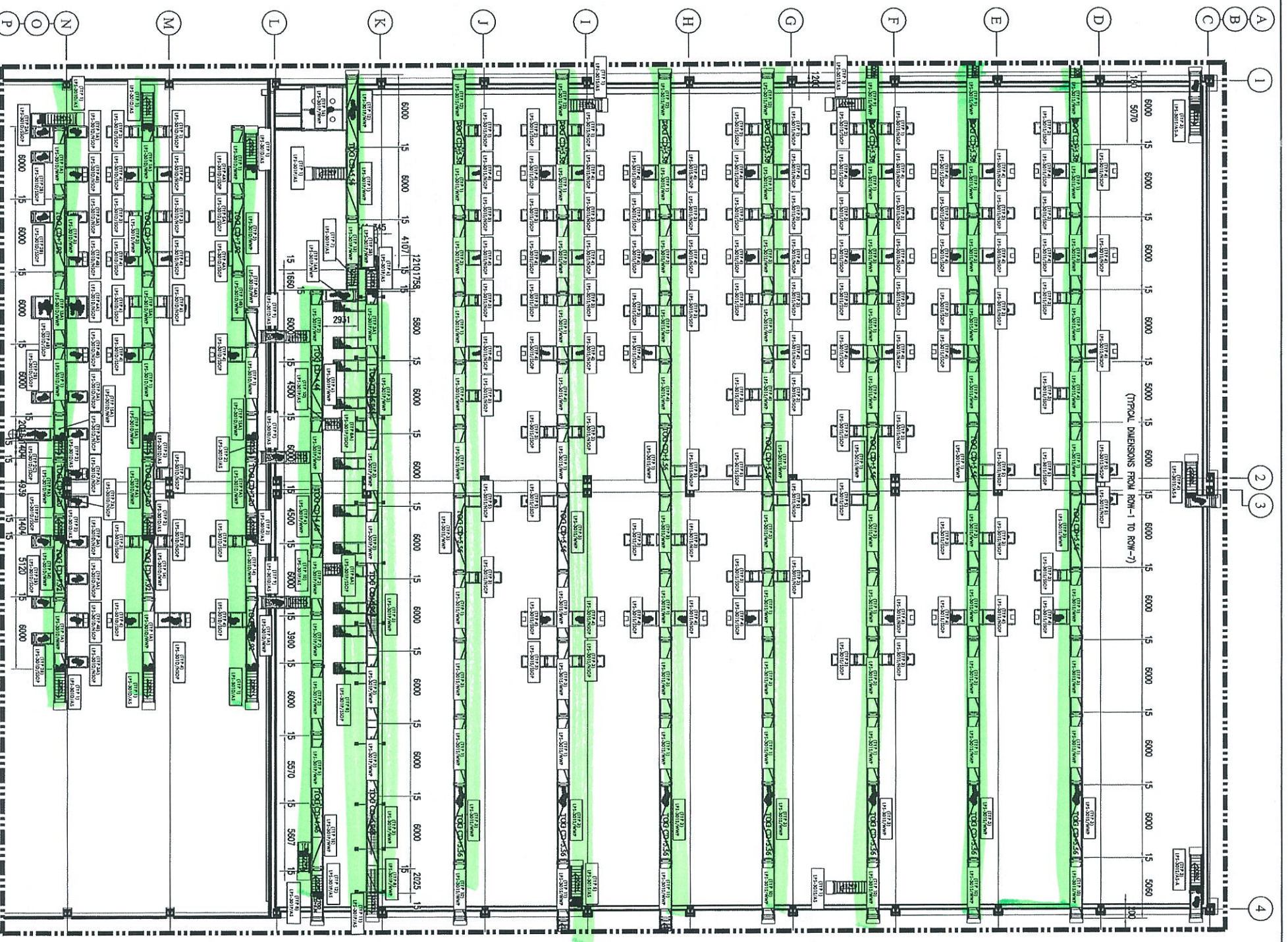


APPROVED FOR CONSTRUCTION

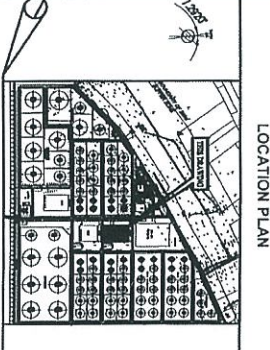
APPROVED	CHECKED	DATE
<i>[Signature]</i>	WKL/ZJ	
	LKM	



- INSIDE LPS 301



PLATFORM ARRANGEMENT
SCALE 1 : 200



LOCATION PLAN

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE STATED.
 2. DIMENSION WITH ASTERISK (*) TO BE CONFIRMED.
 3. NUMBERING SYSTEM :-

- 3.1 (TYPE 5)
PLATFORM TYPE
- 3.2 LPS-301 S / WWP
PIT NUMBER
SUCTION
DISCHARGE
PUMP AREA
WALK WAY PLATFORM
NORTH SIDE OPER. PLATFORM
SOUTH SIDE OPER. PLATFORM

REV.	DESCRIPTION	BY	CHK	APP	DATE
0	ISSUED FOR APPROVAL	AM	AM	AM	5/27/23
1	ISSUED FOR CONSTRUCTION	AM	AM	AM	5/27/23

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

PROJECT OWNER :
PENGERANG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG
DIALOG E & C SDN. BHD. (18328-U)
NO. 9, BLOK 6, PLOT 20 DUMASUKA 1,
NO. 9, BLOK 16/11, 4829 PENANG JAYA, SELANGOR.

SCALE :	AS SHOWN	CHECKED :	YES
DESIGNER :	QED	APPROVED :	LM
DATE :	23/4/23	FILENAME :	-
DWG. NO. :	DH00008-ENG-C-PF-0200	SHEET NO. :	1 OF 1

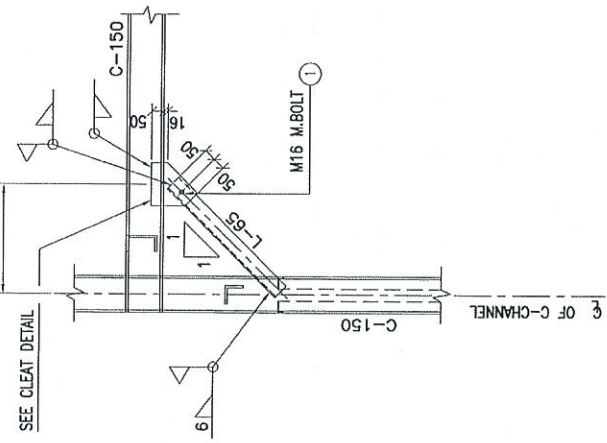
BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	M-BOLT & NUT C/W 2x WASHER - M16x75L	GR. 8.8 HDG	6343	913.0
2	M-BOLT & NUT C/W 2x WASHER - M20x85L	GR. 8.8 HDG	1684	434.0
3	ANCHOR BOLT M20x140L	HILT ANCHOR	498	180.0
4	ANCHOR BOLT M20x350L	HILT ANCHOR	1146	555.0
5	BRACKET PLATE - 155 x 110 x 9t	A36 OR EQ.	552	664.9
5	BRACKET PLATE - 140 x 175 x 9t	A36 OR EQ.	66	114.2
	TOTAL			2861.1

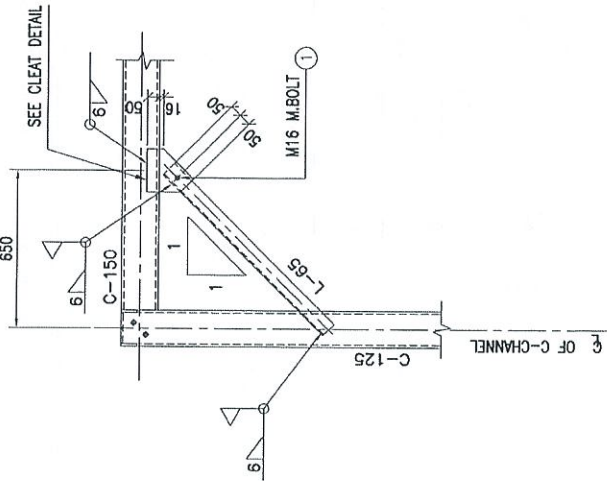
(HOLD)

NOTE:

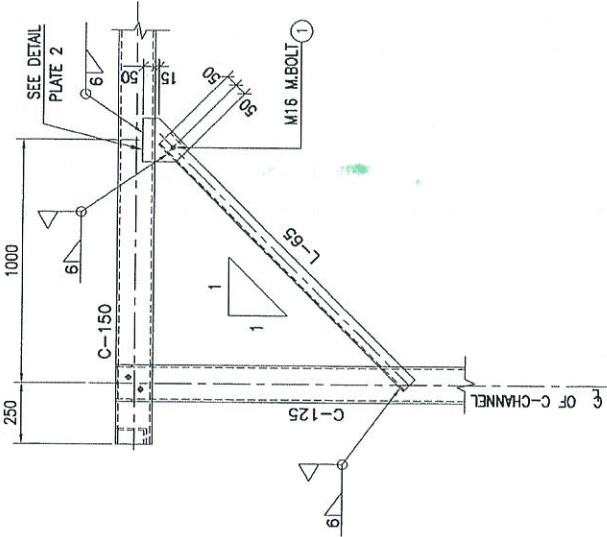
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.



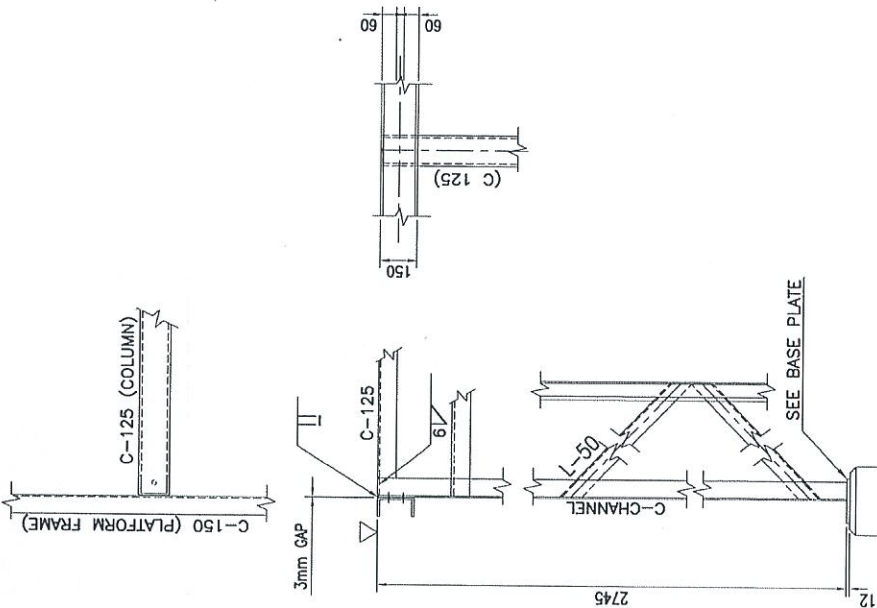
**DETAIL 6
FOR OPERATING PLATFORM (TYP.)**
(SCALE 1:15)



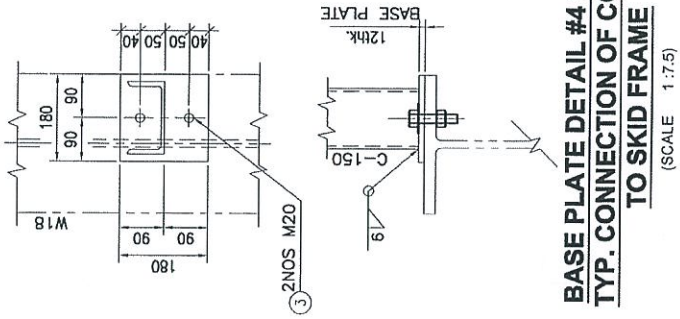
**DETAIL 5
FOR WALKWAY PLATFORM (TYP.)**
(SCALE 1:15)



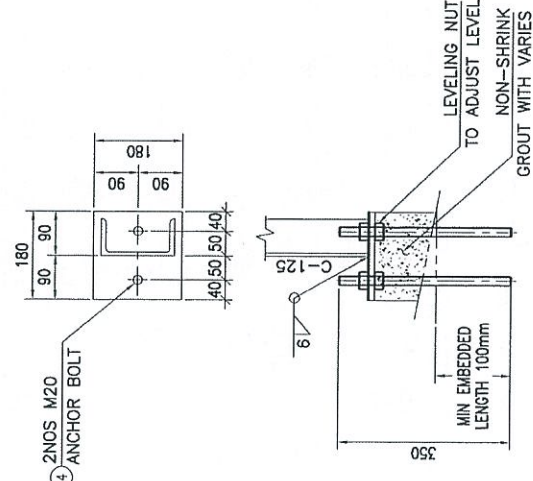
**DETAIL 4
FOR WALKWAY PLATFORM (TYP.)**
(SCALE 1:15)



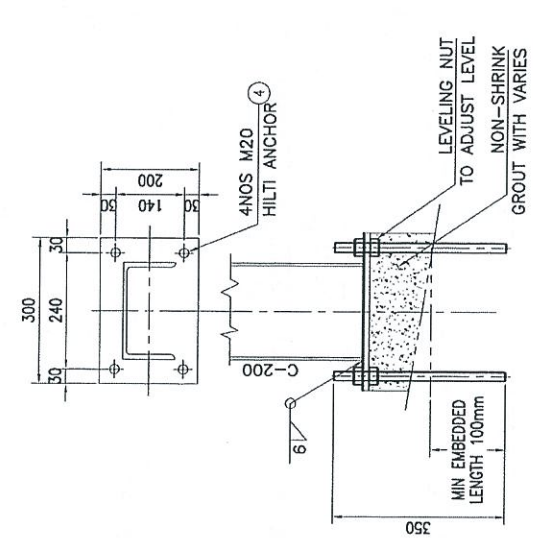
**DETAIL 1
(FOR COLUMN TYPE 1)**
(SCALE 1:15)



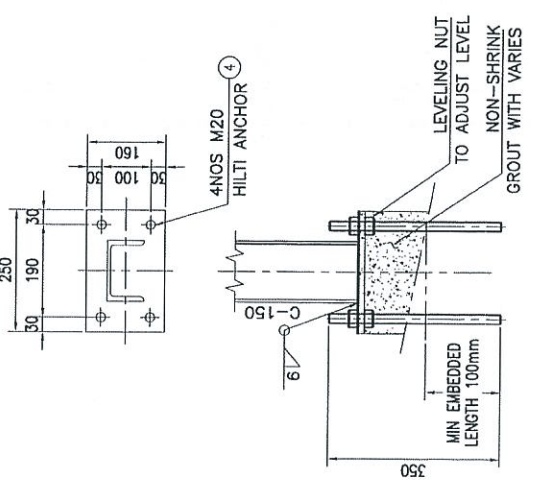
**BASE PLATE DETAIL #4 (C-150)
TYP. CONNECTION OF COLUMN
TO SKID FRAME**
(SCALE 1:7.5)



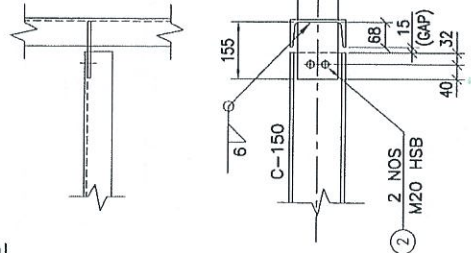
**BASE PLATE DETAIL #3
(FOR C-125)**
(SCALE 1:7.5)



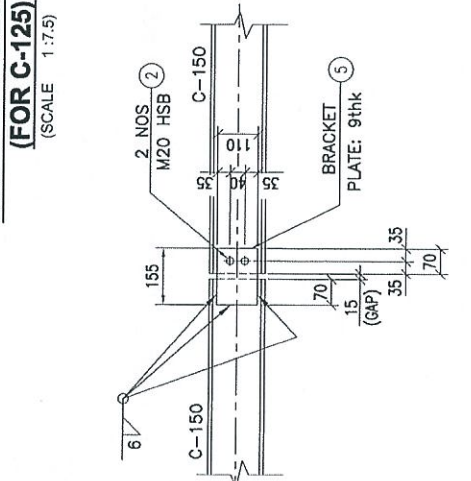
**BASE PLATE DETAIL #2
(FOR C-200)**
(SCALE 1:7.5)



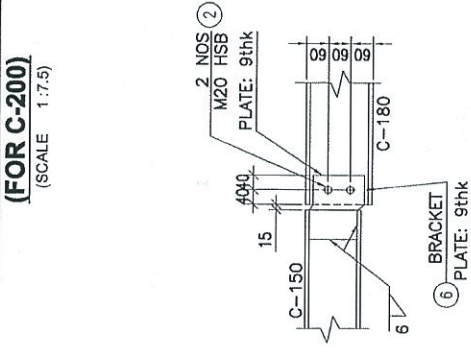
**BASE PLATE DETAIL #1
(FOR C-150)**
(SCALE 1:7.5)



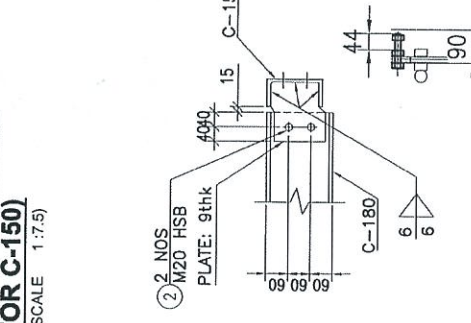
CONNECTION DETAIL #4
(SCALE 1:10)



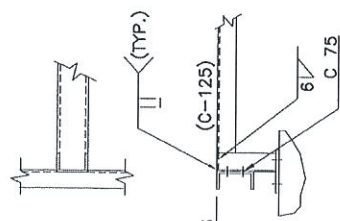
CONNECTION DETAIL #3
(SCALE 1:10)



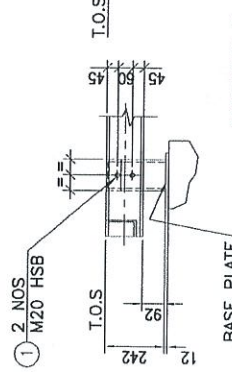
CONNECTION DETAIL #2
(SCALE 1:10)



CONNECTION DETAIL #1
(SCALE 1:10)



CLEAT DETAIL
(SCALE 1:15)



**DETAIL 3
(FOR COLUMN TYPE 3)**
(SCALE 1:15)

REV.	DESCRIPTION	BY	CHK	APPR.	DATE
1	ISSUED FOR APPROVAL	MM	MM	MM	18/07/13
2	ISSUED FOR COMMENT	MM	MM	MM	18/07/13
3	ISSUED FOR COMMENT	MM	MM	MM	18/07/13

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (191914-4)
104, BLOK C, PLOD, JALAN PLOD, 43000 SEREMBAN, NEGERI SEMBANG, MALAYSIA

DRAWING TITLE :
TYPICAL DETAIL WALKWAY & OPERATING STRUCTURAL PLATFORM

SCALE : AS SHOWN
DESIGN : MM
APPROVED : MM
DATE : 18/07/13
FILE NAME :
DWG. NO. : DPO008-ENG-C-PF-0201

SHEET NO. : 1 OF 3
REV. : 0

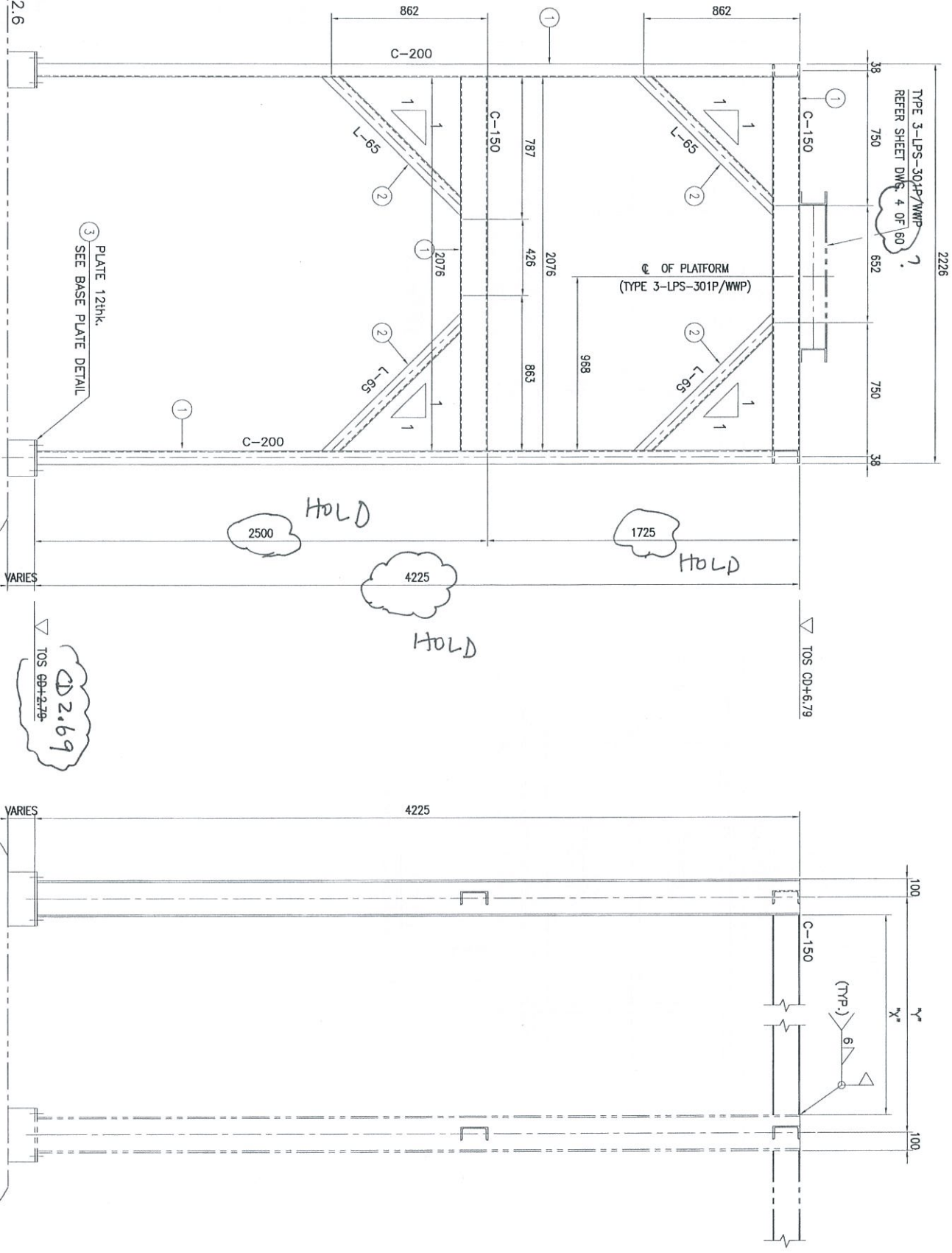


PLAN
(SCALE 1:15)

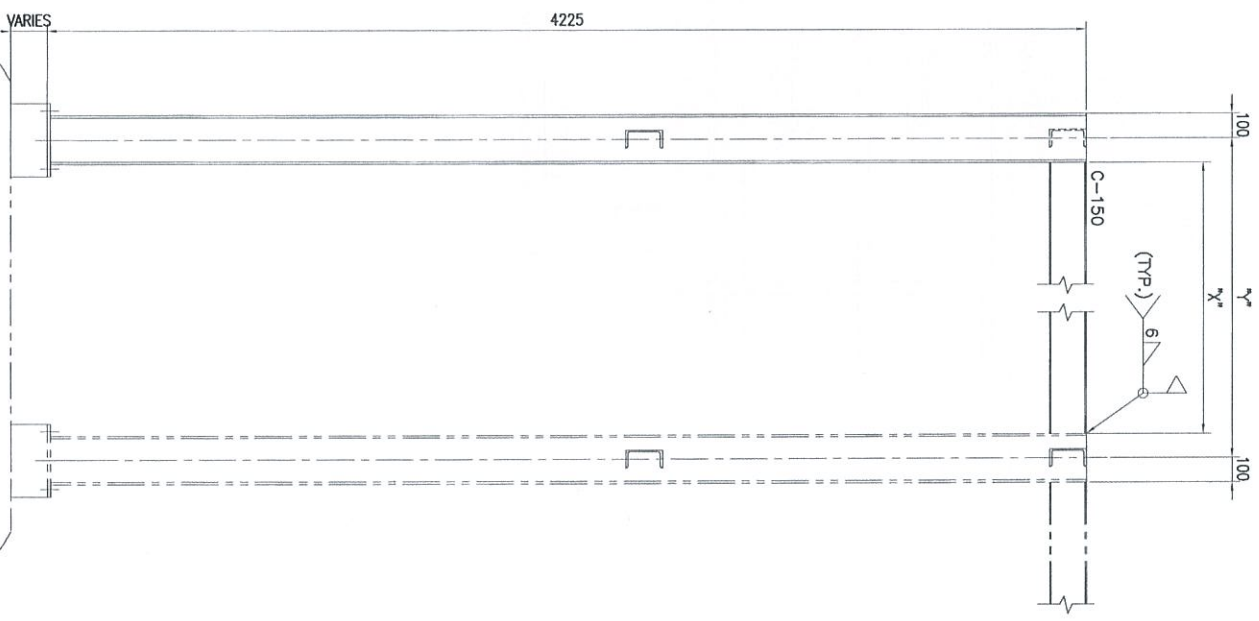
COLUMN A LONG GRID K			
TOTAL OF COLUMN	= 11 pcs		
"M" (COLUMN TO COLUMN LENGTH)	"L" (mm)	QTY.	
3563	3563	2	
3727	3527	2	
5000	4800	12	
7000	6800	2	
5070	4870	2	
TOTAL REQ'D = 20			

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (1 SET)
1	C-CHANNEL (C-200 x 80 x 24.6kg/m)	A 36 OR EQ.	2	207.3
2	C-CHANNEL (C-150 x 75 x 6.5 x 18.6kg/m)	A 36 OR EQ.	3	258.4
3	ANGLE (L-65 x 65 x 61 x 5.91kg/m)	A 36 OR EQ.	1	7.8
3	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	12.32
TOTAL				4.8

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS D1.1.



COLUMN DETAIL 1
FOR TYPE 3 (A LONG GRID K)
(SCALE 1:15)



PLAN
(SCALE 1:15)

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (18386-3)
100, BLOK G, FLETO SURABAYA 1,
NO. 8, JALAN 14/11, 40130 PRIBADI SURABAYA

DIALOG

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

REFERENCE DRAWINGS

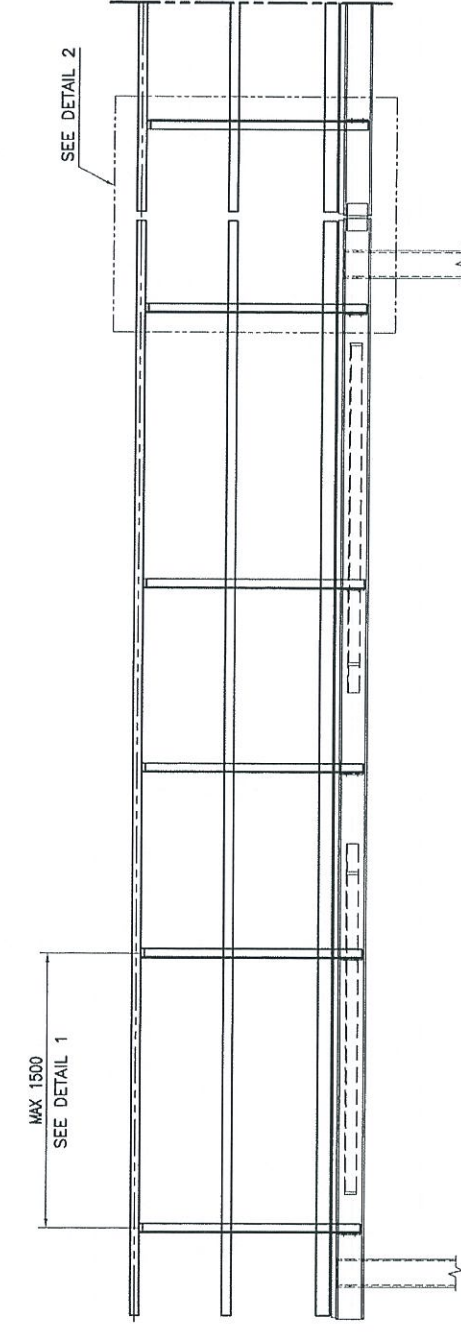
NO.	REVISION	DATE	BY	CHK	APPR.
1	ISSUED FOR APPROVAL	16/09/13	DK	DK	DK
2	ISSUED FOR CONSTRUCTION	16/09/13	DK	DK	DK

PROJECT TITLE :
TYPICAL DETAIL WALKWAY & OPERATING
STRUCTURAL PLATFORM

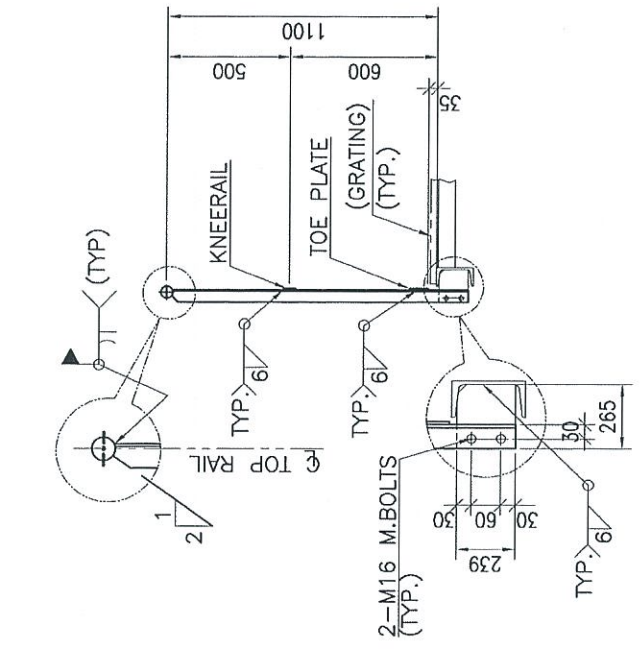
SCALE : AS SHOWN

DATE : 16/09/13

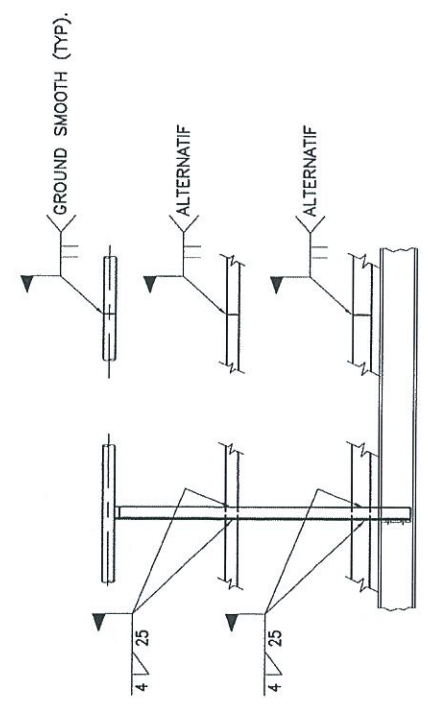
DWG. NO. : DH0008-ENG-C-PF-0201



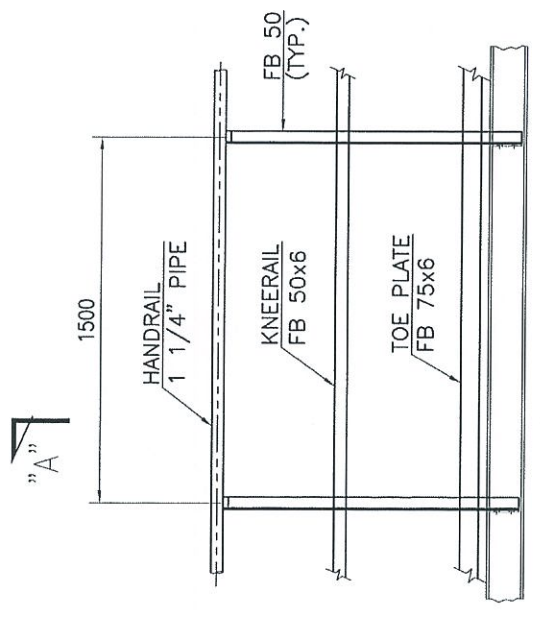
NORMAL TYPE HANDRAIL
SCALE 1:20



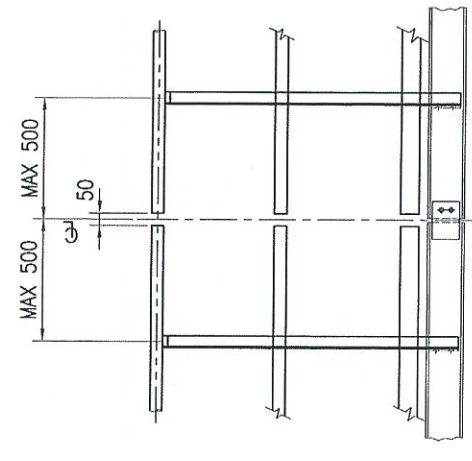
SECTION "C" - "C"
SCALE 1:15



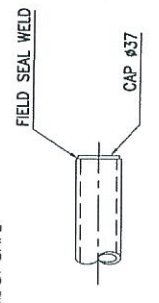
TYP JOINT FOR HR
SCALE 1:15



DETAIL 1
TYP. HANDRAIL POST
(SCALE 1:15)



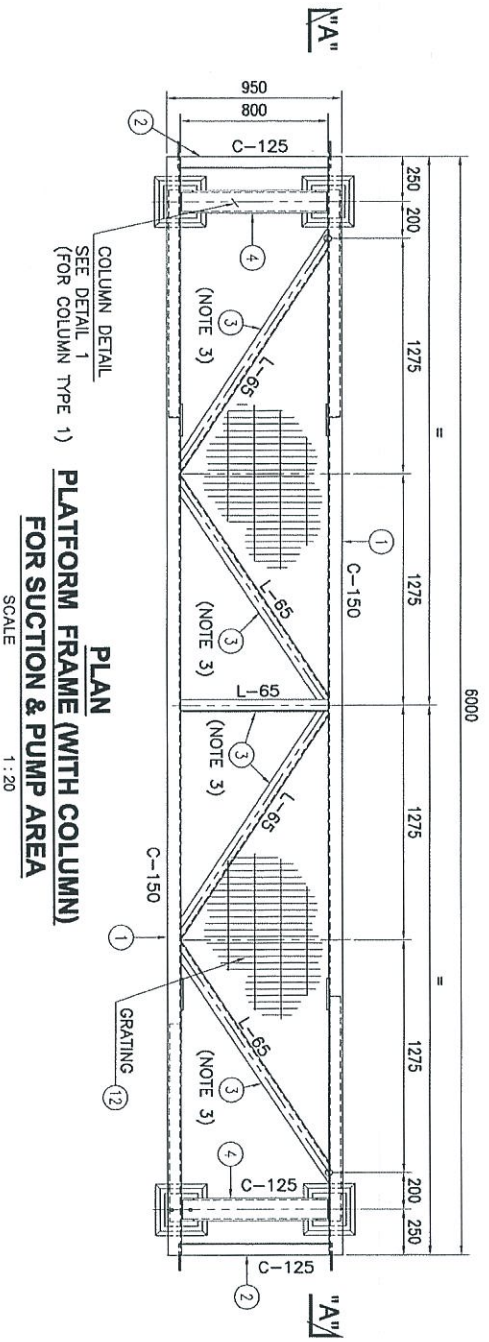
DETAIL 2
SCALE 1:15



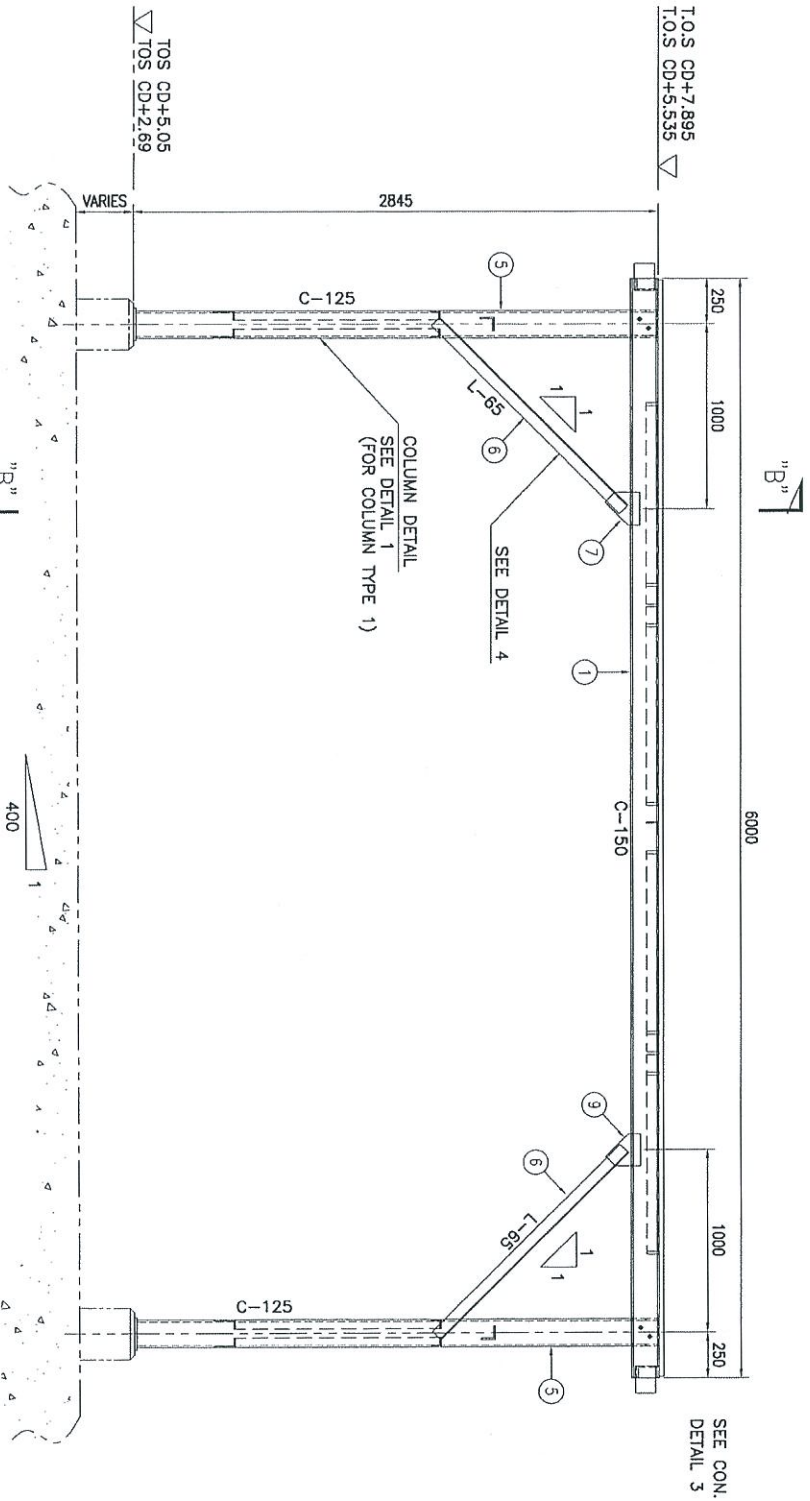
- NOTE:**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. UNO ALL MATERIALS OF HANDRAILING SHALL BE SPECIFIED AND ADJUSTED IN FIELD EXCEPT POSTS AND RAILS WHICH SHALL BE FABRICATED AS SPECIFIED ON THIS DRAWING.
 3. POSTS LOCATION SHALL BE DETERMINED BY THIS DRAWING BASED ON THE REQUIREMENT ON FABRICATING.
 4. ALL CUT CORNERS & SIDES TO BE GROUND SMOOTH.
 5. DETAIL OF CAPE

PPAC GROUP (INCORPORATED) (I) (P)-301		MASTER PLAN FOR PHASE-1	
DWG. NO. _____			
TITLE			
REFERENCE DRAWINGS			
DESIGNED FOR APPROVAL	CHK	BY	DATE
18/03/13	EMK	EMK	18/03/13
CHECKED FOR COMMENT	CHK	BY	DATE
18/03/13	EMK	EMK	18/03/13
PROJECT TITLE :			
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG			
PROJECT OWNER :			
DIALOG INDEPENDENT TERMINALS SDN. BHD.			
CONSULTANT :			
DIALOG E & C SDN. BHD. (112920-0)			
101, 8000 G. ROAD, 43000 PENJANG JAYA, SELANGOR.			
DRAWING TITLE :			
TYPICAL DETAIL WALKWAY & OPERATING STRUCTURAL PLATFORM			
SCALE :	AS SHOWN	CHECKED :	EMK
DRAWN :	EMK	APPROVED :	EMK
DATE :	18/03/13	FILENAME :	(A)
DWG. NO. :	DM0008-ENG-C-PF-0201	SHT. NO. :	3 OF 3
		REV. :	0

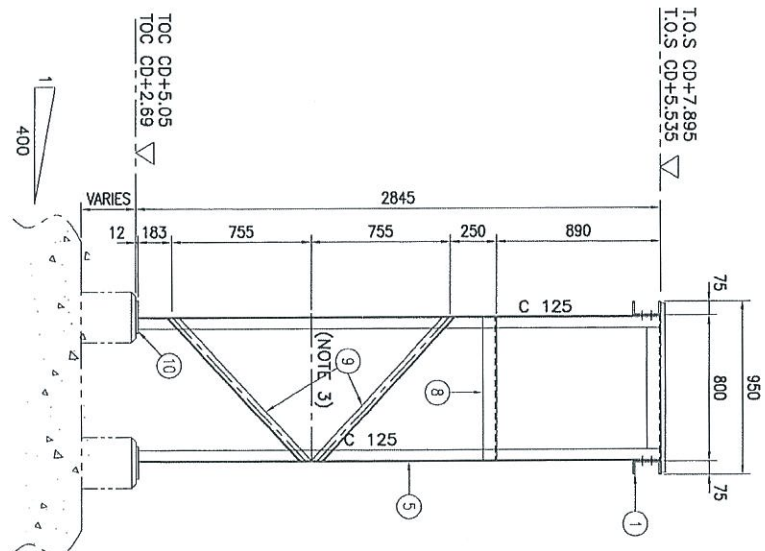
WALKWAY PLATFORM - (TYPE-1)



PLAN
PLATFORM FRAME (WITH COLUMN)
FOR SUCTION & PUMP AREA
 SCALE 1:20



SECTION "A" - "A"
 SCALE 1:20



SECTION "B" - "B"
 SCALE 1:20

WALKWAY PLATFORM (WITH COLUMN)	
DESCRIPTION	QTY.
TYPE 1-LPS-301S/WWP	35
TYPE 1-LPS-301P/WWP	1
TYPE 1-LPS-301D/WWP	3
TOTAL REQ'D = 39	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.5t x 6000L	A 36 OR EQ.	2	223.2
2	FRAME - C125 x 65 x 6t x 800L	A 36 OR EQ.	3	21.4
3	BRACING #2 - 1.65 x 65 x 6t	A 36 OR EQ.	2	11.1
4	SUPPORT LEG - C125 x 65 x 6t x 2733L	A 36 OR EQ.	2	21.4
5	LEG - C125 x 75 x 9t x 2733L	A 36 OR EQ.	4	146.5
6	BRACING #3 - 1.65 x 65 x 6t	A 36 OR EQ.	4	12.9
7	CLEAT - 9t	A 36 OR EQ.	4	9.1
8	BRACING #4 - 1.65 x 65 x 6t x 800L	A 36 OR EQ.	2	1.4
9	BRACING #5 - 1.65 x 65 x 6t	A 36 OR EQ.	4	4.9
10	BASE PLATE - 180 x 180 x 12t	A 36 OR EQ.	4	12.32
11	FLOOR GRATING - 5980 x 930 x 25t	A 36 OR EQ.	1	164.1
TOTAL				633

NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 2. ALL WELDED TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

PROJECT OWNER :
 INDEPENDENT DEEPWATER PETROLEUM
 TERMINAL AT PENGERANG

PROJECT TITLE :
 DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
 DIALOG E & C SDN. BHD. (18898-D)

DRAWING TITLE :
 WALKWAY PLATFORM WITH COLUMN (TYPE-1)

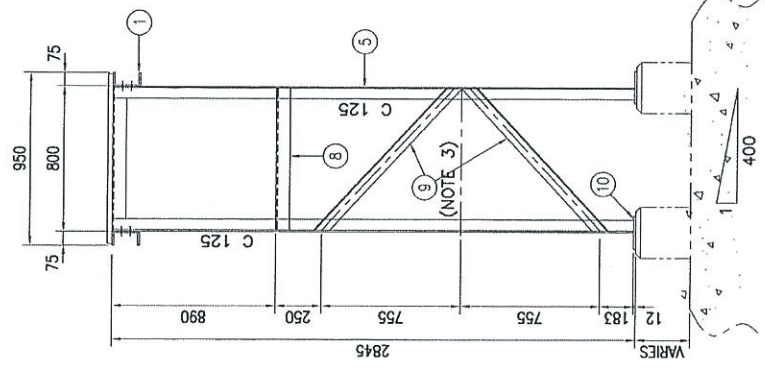
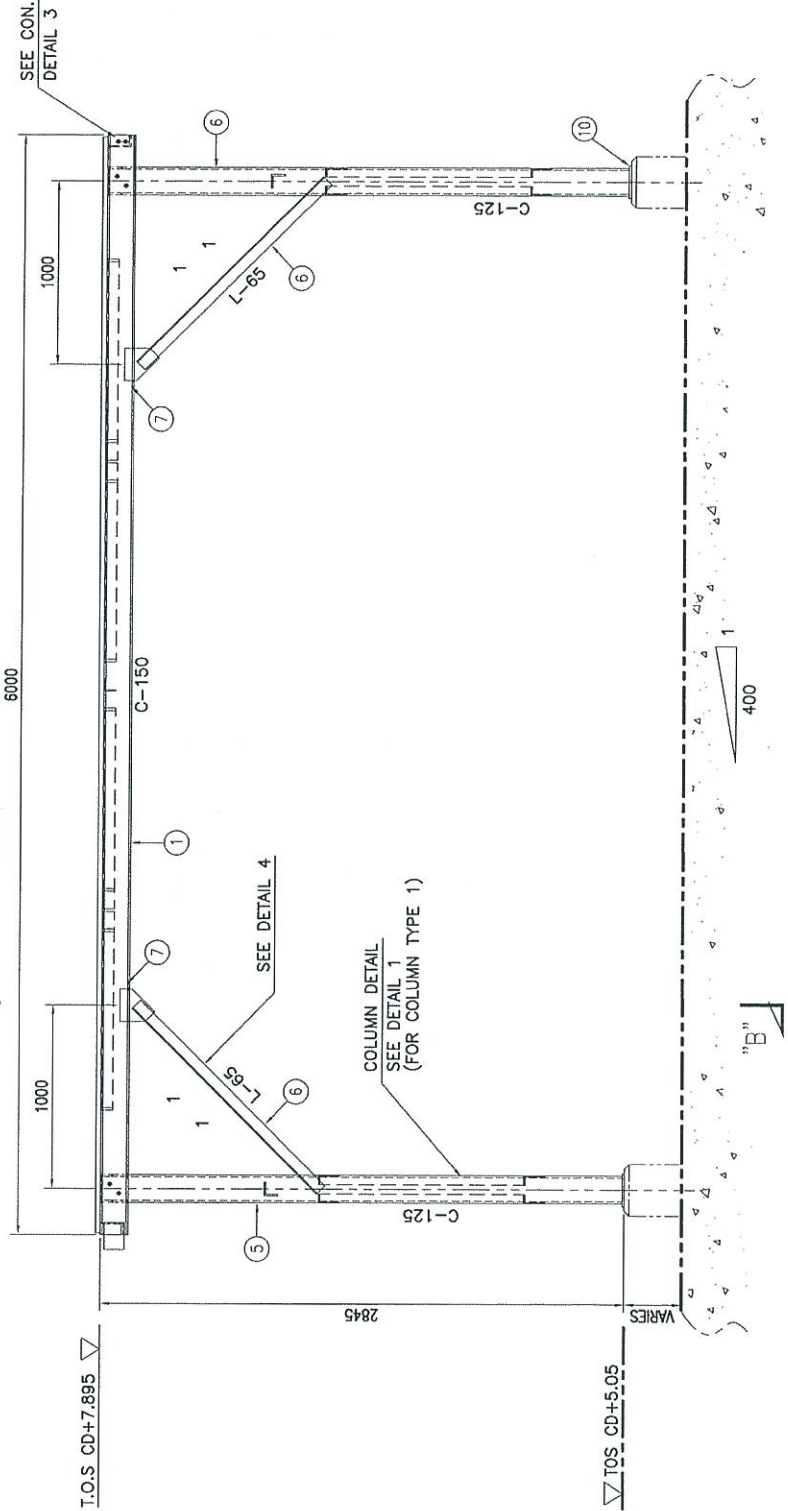
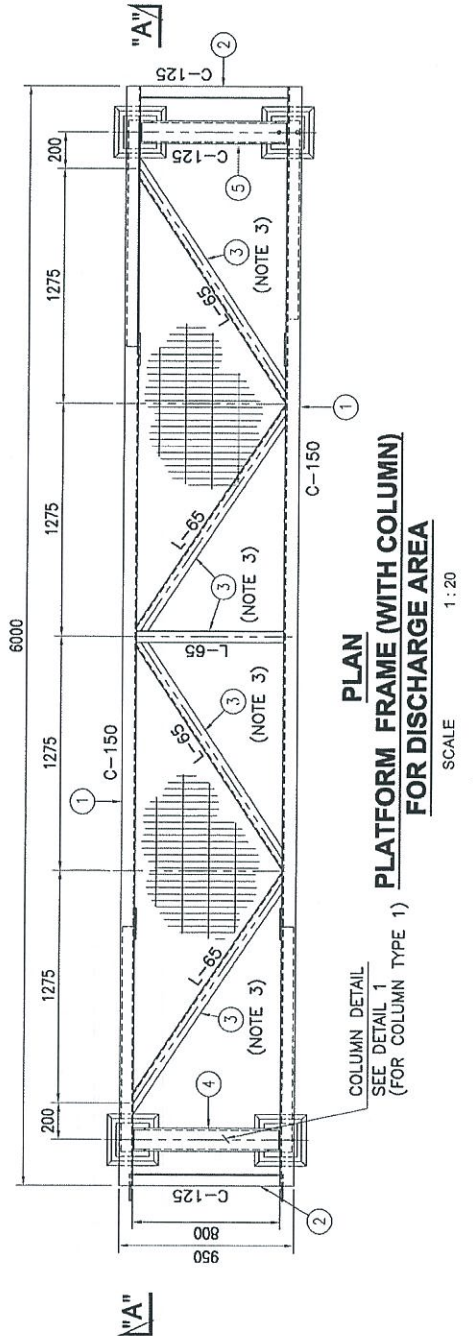
SCALE : AS SHOWN

DATE : 18/03/13

DWG. NO. : DHP008-DWG-C-PF-0202

1 OF 2

WALKWAY PLATFORM - (TYPE-1A)



NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

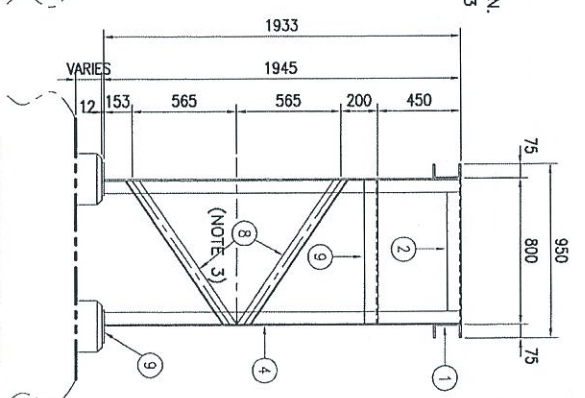
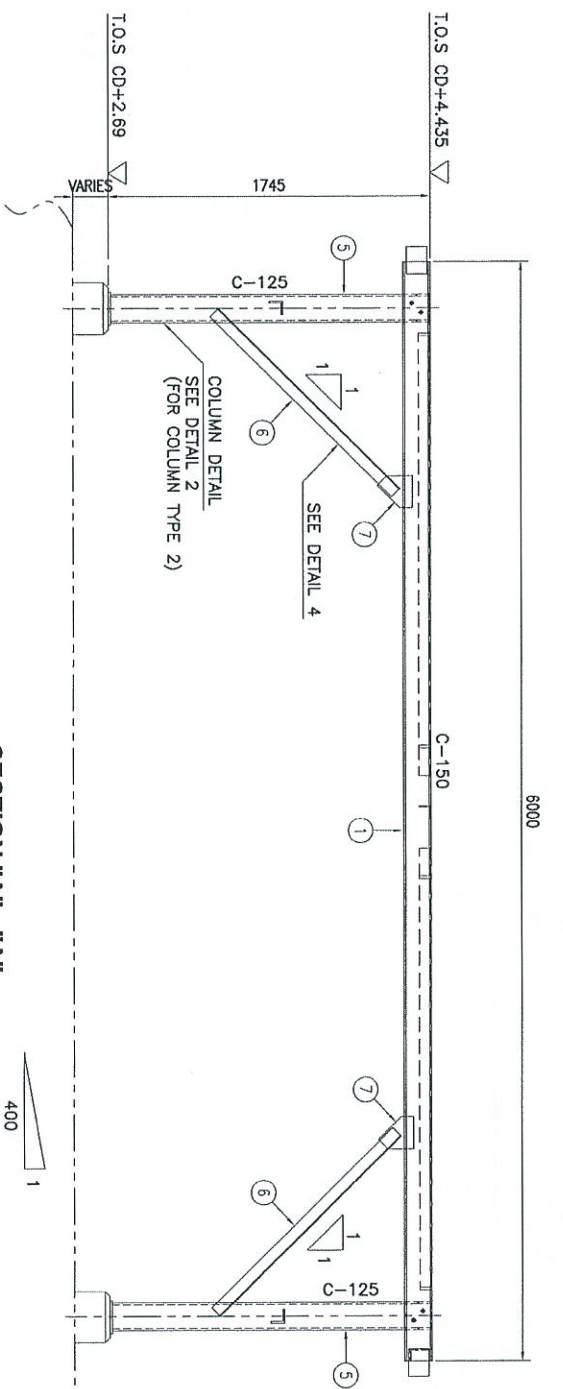
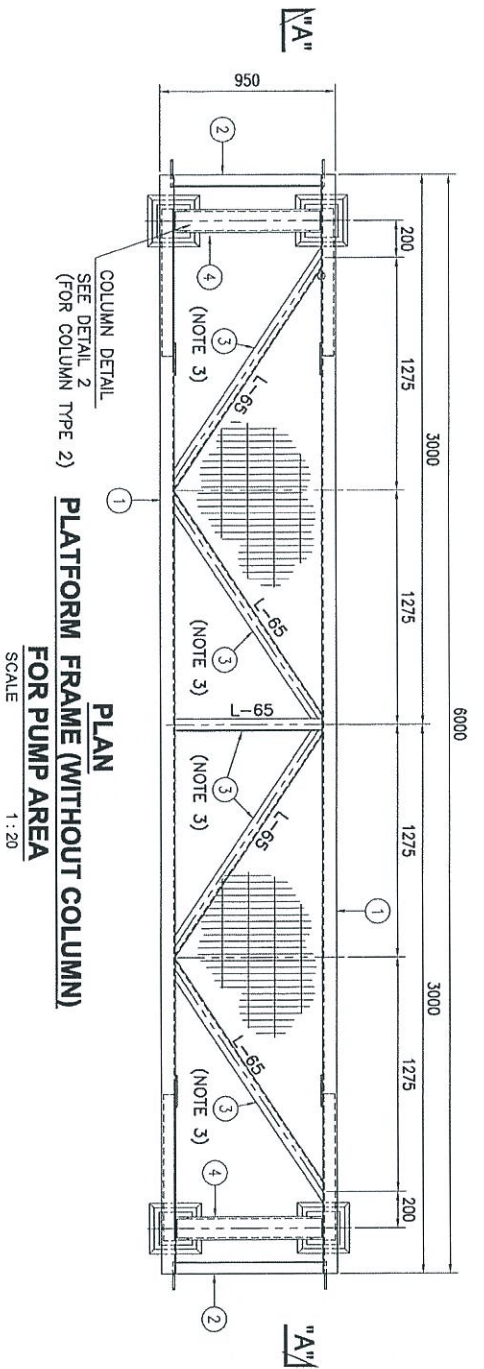
BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 6000L	A 36 OR EQ.	2	223.2
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	3	21.4
3	BRACING #1 - L65 x 65 x 61	A 36 OR EQ.	1	11.1
4	SUPPORT LEG - C125 x 75 x 91 x 800L	A 36 OR EQ.	2	21.4
5	LEG - C125 x 65 x 61 x 2733L	A 36 OR EQ.	4	146.5
6	BRACING #2 - L65 x 65 x 61	A 36 OR EQ.	4	12.9
7	CLEAT - 91	A 36 OR EQ.	4	9.1
8	BRACING #3 - L65 x 65 x 61	A 36 OR EQ.	2	2.8
9	BRACING #4 - L75 x 75 x 61	A 36 OR EQ.	4	38.8
10	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	4	12.32
11	FLOOR GRATING - 5980 x 930 x 251	A 36 OR EQ.	1	164.1
	TOTAL			643.4

PROJECT OWNER :		INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG	
CONSULTANT :		DIALOG E & C SDN. BHD. (18289-0)	
DRAWING TITLE :		LPS-301 WALKWAY PLATFORM WITH COLUMN (TYPE-1A)	
SCALE :	AS SHOWN	CHECKED :	ERMA
DRAWN :	PAH	APPROVED :	UM
DATE :	18/03/13	RELEASE :	
DWG. NO. :	DH0008-ENG-C-PF-0202	SHT. NO. :	0

PROJECT NO. : PPMG GENERAL ARRANGMENT AT LPS-301
 MASTER PLAN FOR PHASE-1
 REFERENCE DRAWINGS :
 DATE : 18/03/13
 DRAWN : PAH
 CHECKED : ERMA
 APPROVED : UM
 DATE : 18/03/13
 RELEASE :
 DIALOG E & C SDN. BHD. (18289-0)
 NO. 9, JALAN 16/11, 43000 PETANG JAYA, SELANGOR.

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 1A-LPS-301D/WWP	6
TOTAL REQ'D = 6	

WALKWAY PLATFORM - (TYPE-2)



WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 2-LPS-301P/WWP	4
TOTAL REQ'D =	4

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 6000L	A 36 OR EQ.	2	223.2
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING #1 - 1.65 x 65 x 61	A 36 OR EQ.	2	11.1
4	SUPPORT LEG - C125 x 75 x 91 x 800L	A 36 OR EQ.	2	21.4
5	LEG - C125 x 65 x 61 x 2739L	A 36 OR EQ.	4	146.5
6	BRACING #3 - 1.65 x 65 x 61 x 1737L	A 36 OR EQ.	4	12.9
7	CLEAT - 91	A 36 OR EQ.	4	9.1
8	BRACING #4 - 1.65 x 65 x 61 x 1453L	A 36 OR EQ.	2	2.8
9	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	4	9.4
10	FLOOR GRATING - 5980 x 930 x 251	A 36 OR EQ.	1	164.1
	TOTAL			619.2

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELDS TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.
CONSULTANT : DIALOG E & C SDN. BHD. (18833-9)
 101, BLOK D, PONDOK DAMAI, L. NO. 9, JALAN 19/11, 4320 PONDOK DAMAI, SELANGOR.

PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

DATE : 19/03/13

SCALE : AS SHOWN

DESIGNER : HMK

CHECKED : ENK

DATE : 19/03/13

APPROVED : LHM

DWG. NO. : DH0008-ENG-C-PF-0203

SHEET NO. : 1 OF 1

REV. : 0

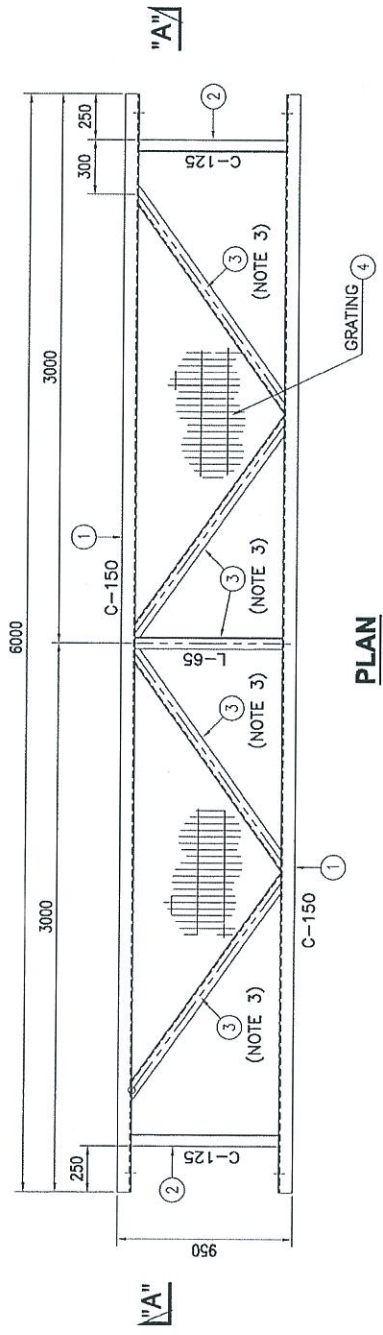
BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 6000L	A 36 OR EQ.	2	223.2
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING - L65 x 65 x 61 x 800L	A 36 OR EQ.	1	11.1
4	FLOOR GRATING - 5980 x 930 x 25f	A 36 OR EQ.	1	164.1
	TOTAL			419.5

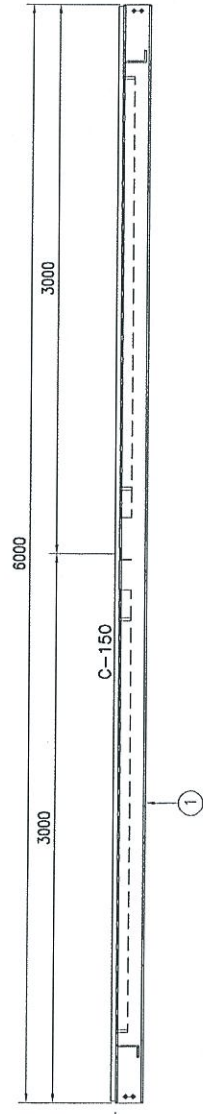
NOTE:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

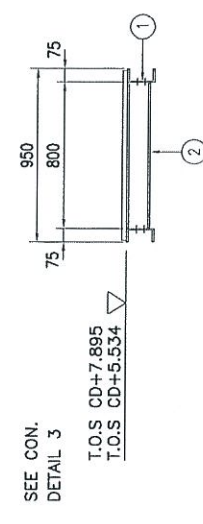
WALKWAY PLATFORM - (TYPE-3)



PLAN
PLATFORM FRAME (WITHOUT COLUMN)
FOR SUCTION, PUMP & DISCHARGE AREA
 SCALE 1:20



SECTION "A" - "A"
 SCALE 1:20



SEE CON.
 DETAIL 3

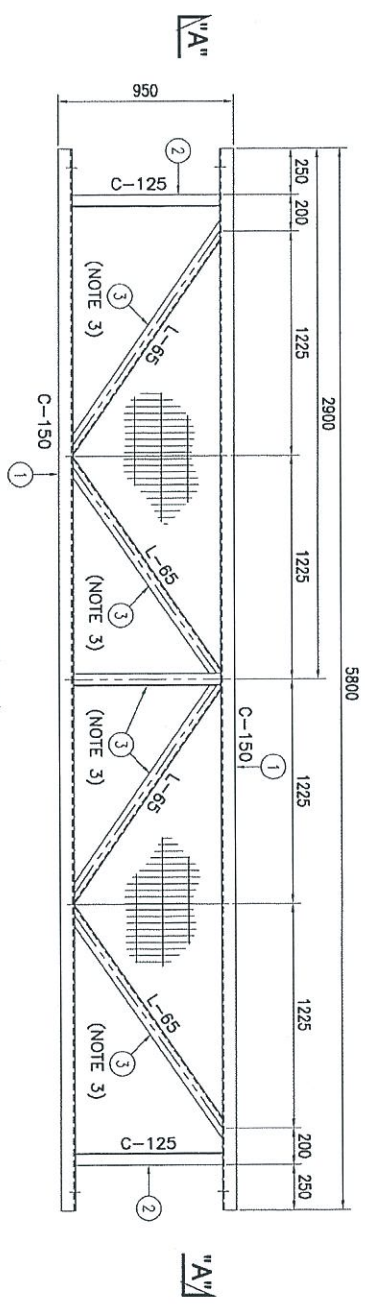
T.O.S CD+7.895
 T.O.S CD+5.534

DESCRIPTION	QTY.
TYPE 3-LPS-301S/WWP	28
TYPE 3-LPS-301D/WWP	3
TYPE 3-LPS-301P/TAP	7
TOTAL REQ'D = 38	

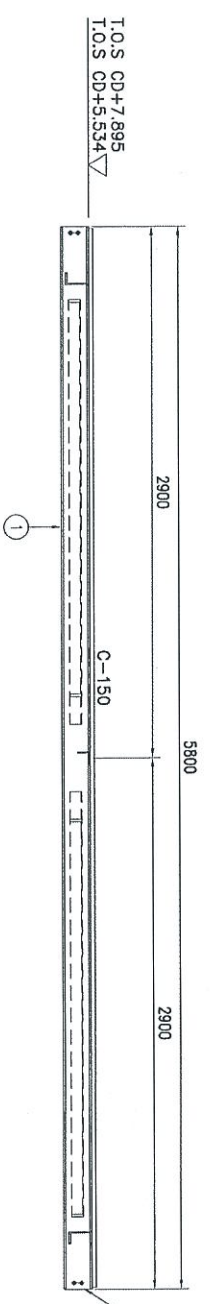
PROJECT NO.	PPHD GENERAL ARRANGEMENT AT LPS-301
DWG. NO.	MASTER PLAN FOR PHASE-1
TITLE	REFERENCE DRAWINGS
ISSUED FOR APPROVAL	DATE
CHK. BY	DATE
REV. NO.	DESCRIPTION
BY	CHK.
DATE	DATE
PROJECT TITLE :	
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG	
PROJECT OWNER :	
DIALOG INDEPENDENT TERMINALS SDN. BHD.	
CONSULTANT :	
DIALOG E & C SDN. BHD. (189395-0)	
109, BLOK G, PHLER DAMANSARA 1, NO. 8, JALAN 16/11, 43000 PETALING JAYA, SELANGOR.	
DRAWING TITLE :	
LPS-301 WALKWAY PLATFORM (WITHOUT COLUMN) (TYPE-3)	
SCALE :	AS SHOWN
CHECKED :	ERNA
DRAWN :	HMK
APPROVED :	LHM
DATE :	16/03/13
FILENAME :	
REV. NO.	
SHT. NO.	0
REV.	1 OF 3

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (1 SET)
1	FRAME - C-150 x 75 x 6.51 x 5800L	A 36 OR EQ.	2	184.0
2	FRAME - C-125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING - L65 x 65 x 61 x 800L	A 36 OR EQ.	1	11.1
4	FLOOR GRATING - 5780 x 930 x 251	A 36 OR EQ.	1	158.6
TOTAL				382.3

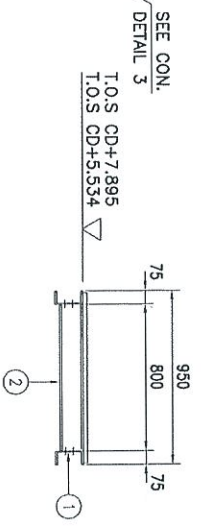
WALKWAY PLATFORM - (TYPE-3)



PLAN
PLATFORM FRAME (WITHOUT COLUMN)
FOR SUCTION, PUMP & DISCHARGE AREA
 SCALE 1:20



SECTION "A-A" - "A-A"
 SCALE 1:20



WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 3A-LPS-301P/TAP	1
TOTAL REQ'D = 1	

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

PROJECT OWNER :
 DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
 DIALOG E & C SDN. BHD. (18339-U)
 101, BLOCK 6, PHASE DAWASAGA 1,
 NO. 9, JALAN 18/11, 43150 PETUNG JAYA, SEREMBAN.

DRAWING TITLE :
 LPS-301
 WALKWAY PLATFORM (WITHOUT COLUMN)

SCALE : AS SHOWN

DATE : 18/03/13

DRG. NO. : DH0008-ENG-C-PF-0204

PROJECT TITLE :
 INDEPENDENT DEEPWATER PETROLEUM
 TERMINAL AT PENGERANG

REFERENCE DRAWINGS

APPROVED FOR APPROVAL : [Signature]

DATE : 18/03/13

SCALE : AS SHOWN

CHECKED : ENKA

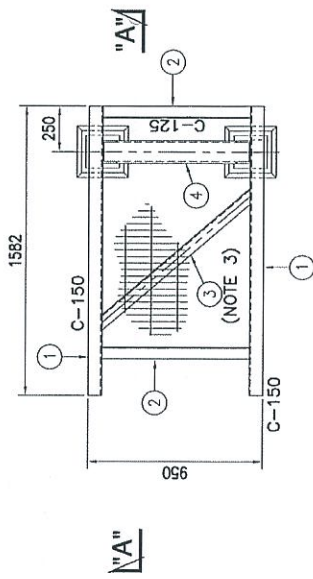
DATE : 18/03/13

DRG. NO. : DH0008-ENG-C-PF-0204

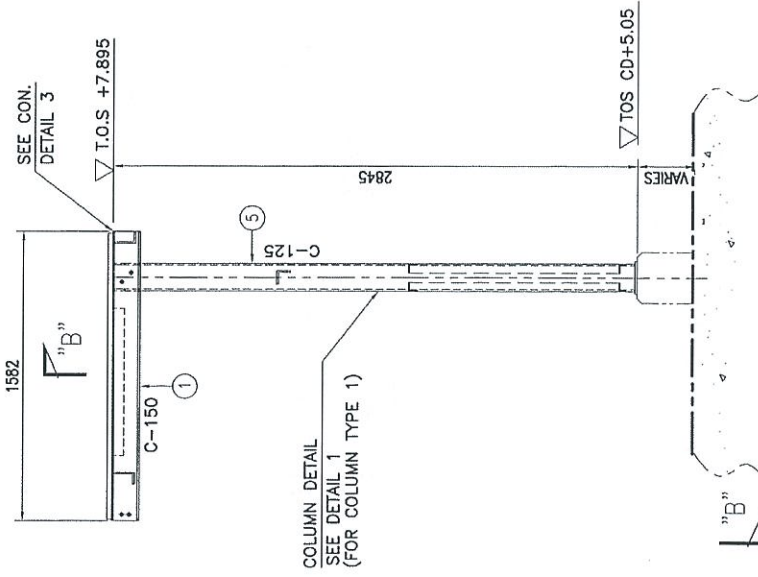
SHEET NO. : 0

TOTAL SHEETS : 3 OF 3

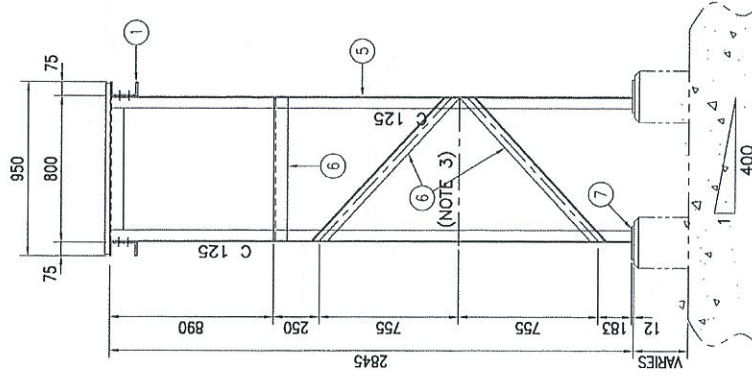
WALKWAY PLATFORM - (TYPE-3B)



PLAN
PLATFORM FRAME (WITH COLUMN)
FOR PUMP AREA
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 1582L	A 36 OR EQ.	2	55.8
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	1	21.5
3	BRACING #1 - L65 x 65 x 61 x 1453L	A 36 OR EQ.	1	2.8
4	SUPPORT LEG - C125 x 75 x 91 x 800L	A 36 OR EQ.	1	5.3
5	LEG - C125 x 65 x 61 x 2733L	A 36 OR EQ.	2	73.2
6	BRACING #2 - L65 x 65 x 61 x 780L	A 36 OR EQ.	2	38.8
7	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	12.32
8	FLOOR GRATING - 1562 x 930 x 251	A 36 OR EQ.	1	42.9
	TOTAL			783.0

NOTE:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS D1.1.
3. CUT TO SUIT

WALKWAY PLATFORM (WITHOUT COLUMN)	QTY.
DESCRIPTION	
TYPE 3B-LPS-301P/TAP	1
TOTAL REQ'D =	1

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (18280-0)
109, BLOCK G, PHLO DAMANSARA 1,
NO. 8, JALAN 16/11, 40150 PENJANG AJAY, SELANGOR.

DRAWING TITLE :
LPS-301 WALKWAY PLATFORM (WITH COLUMN) (TYPE-3B)

SCALE : AS SHOWN
DRAWN : HMK
DATE : 18/03/13
FILENAME :
DWG. NO. : DH0008-ENG-C-PF-0204

REFERENCE DRAWINGS

NO.	REV.	DESCRIPTION	BY	CHK	APPR.	DATE
1		ISSUED FOR PERMIT	HMK			18/03/13
2		ISSUED FOR CONSTRUCTION	HMK			18/03/13

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

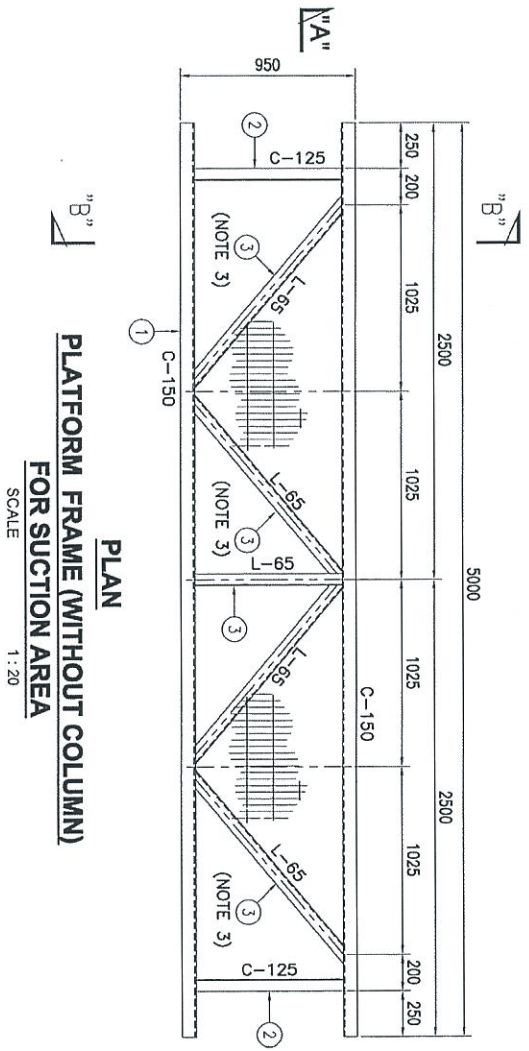
PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (18280-0)
109, BLOCK G, PHLO DAMANSARA 1,
NO. 8, JALAN 16/11, 40150 PENJANG AJAY, SELANGOR.

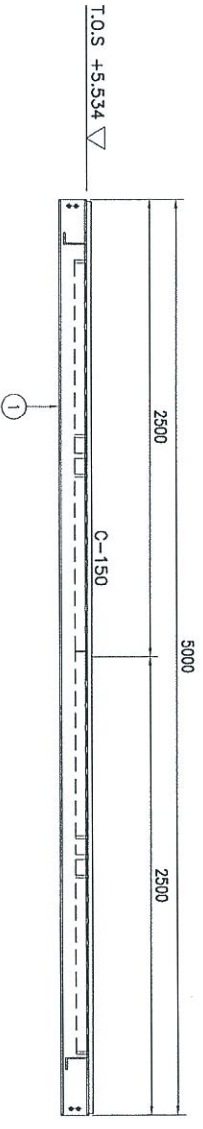
DRAWING TITLE :
LPS-301 WALKWAY PLATFORM (WITH COLUMN) (TYPE-3B)

SCALE : AS SHOWN
DRAWN : HMK
DATE : 18/03/13
FILENAME :
DWG. NO. : DH0008-ENG-C-PF-0204

WALKWAY PLATFORM - (TYPE-4)

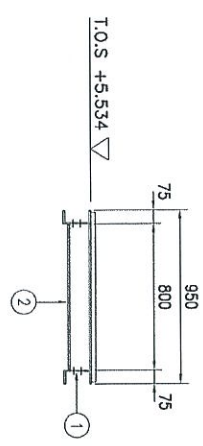


PLAN
PLATFORM FRAME (WITHOUT COLUMN)
FOR SUCTION AREA
 SCALE 1:20



SECTION "A" - "A"
 SCALE 1:20

SEE CON. DETAIL 3



WALKWAY PLATFORM (WITHOUT COLUMN)	QTY.
DESCRIPTION	
TYPE 4-LPS-301S/WWP	7
TOTAL REQ'D =	7

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)			
NO.	DESCRIPTION	MATERIAL	TOTAL QTY. (1 SET)
1	FRAME - C150 x 75 x 6.51 x 5000L	A 36 OR EQ.	186.0
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	21.4
3	BRACING - L65 x 65 x 61 x 800L	A 36 OR EQ.	2.8
4	BRACING #2 - L65 x 65 x 61	A 36 OR EQ.	8.3
5	FLOOR GRATING - 4980 x 930 x 251	A 36 OR EQ.	136.6
	TOTAL		362.3

NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

PROJECT OWNER :
 DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
 DIALOG E & C SDN. BHD. (199229-D)
 101, BLOCK 6, PULSA DAMANSARA 1,
 NO. 9, JALAN 16/111, 47500 PULSAJAYA, SELANGOR.

DRAWING TITLE :
 LPS-301
 WALKWAY PLATFORM (WITHOUT COLUMN)

SCALE : AS SHOWN
 CHECKED : ERM
 DRAWN : NIK
 APPROVED : LHM
 DATE : 16/01/13
 FILENAME :
 DWG. NO. : DH0008-BMG-C-PF-0205

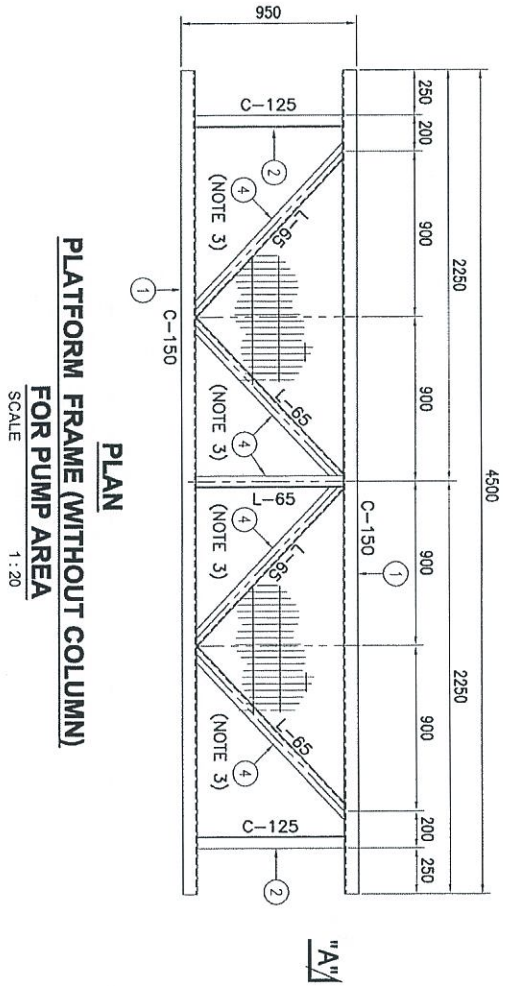
PROJECT TITLE :
 INDEPENDENT DEEPWATER PETROLEUM
 TERMINAL AT PENGERANG

REFERENCE DRAWINGS

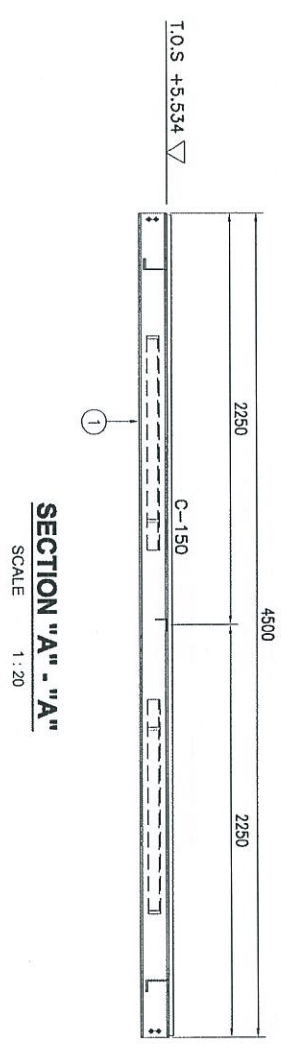
NO.	ISSUED FOR APPROVAL	CHK	BY	DATE
1	FOR APPROVAL	ER	ER	16/01/13
2	ISSUED FOR APPROVAL	ER	ER	16/01/13

PROJECT NO. :
 DWG. NO. :
 TITLE :
 PROJECT TITLE :

WALKWAY PLATFORM - (TYPE-6)

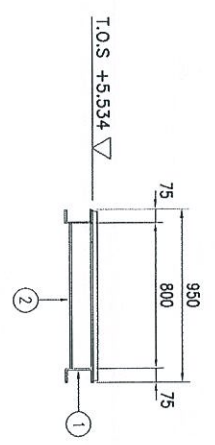


PLAN
PLATFORM FRAME (WITHOUT COLUMN)
FOR PUMP AREA
 SCALE 1:20



SECTION "A" - "A"
 SCALE 1:20

SEE CON.
 DETAIL 3



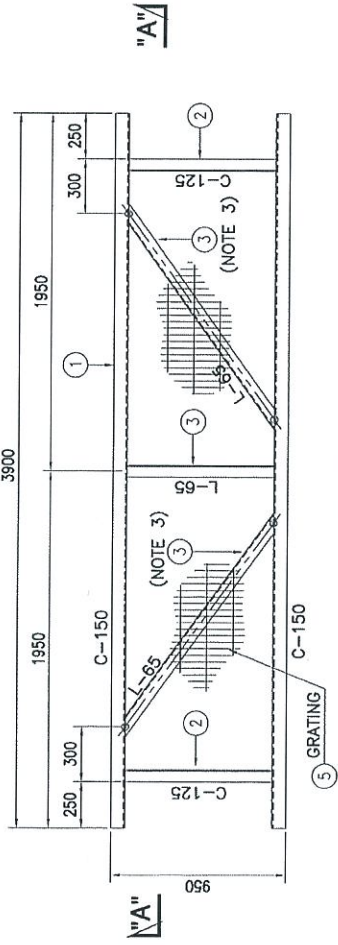
BILL OF MATERIALS (ONE (1) SET OF PLATFORM)			
NO.	DESCRIPTION	MATERIAL	TOTAL QTY (1 SET) / WEIGHT (1 SET)
1	FRAME - C-150 x 75 x 6.51 x 4500L	A 36 OR EQ.	2 / 167.4
2	FRAME - C-125 x 65 x 61 x 800L	A 36 OR EQ.	2 / 21.4
3	BRACING - L65 x 65 x 61	A 36 OR EQ.	2 / 11.1
4	FLOOR GRATING - 4480 x 930 x 25#	A 36 OR EQ.	1 / 122.9
TOTAL			363.7

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELDS TO BE IN ACCORDANCE WITH AWS D1.1.
 3. CUT TO SUIT

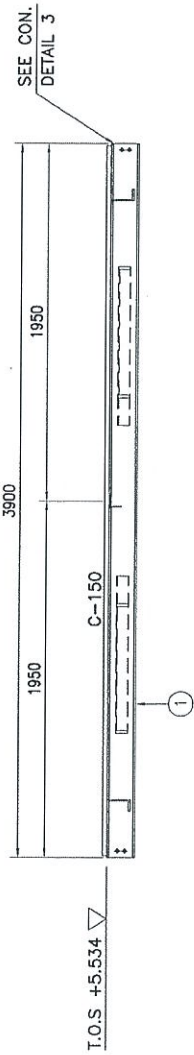
WALKWAY PLATFORM (WITHOUT COLUMN)	QTY.
DESCRIPTION	
TYPE 6-LPS-301P/WWP	2
TOTAL REQ'D = 2	

PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.	
CONSULTANT : DIALOG E & C SDN. BHD. (18399-9) 108, BLOK G, PULAU DAWAYAN 1, NO. 8, JALAN 18/11, 43300 PUNJUNG JAYA, SELANGOR.	
DRAWING TITLE : LPS-301 WALKWAY PLATFORM (WITHOUT COLUMN) (TYPE-6)	
SCALE : AS SHOWN	CHECKED : BMA
DRAWN : HMK	APPROVED : LHM
DATE : 18/03/13	RELEASE : -
DWG. NO. : DH0008-ENG-C-PF-0207	SHT. NO. : 0
	1 of 1

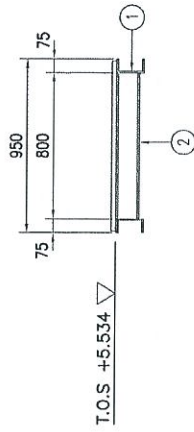
WALKWAY PLATFORM - (TYPE-7)



PLAN
PLATFORM FRAME (WITHOUT COLUMN)
FOR PUMP AREA
 SCALE 1:20



SECTION "A" - "A"
 SCALE 1:20



BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 3900L	A 36 OR EQ.	2	145.1
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING - L65 x 65 x 61	A 36 OR EQ.	3	11.1
4	FLOOR GRATING - 3880 x 930 x 25I	A 36 OR EQ.	1	106.4
	TOTAL			341.4

NOTE:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

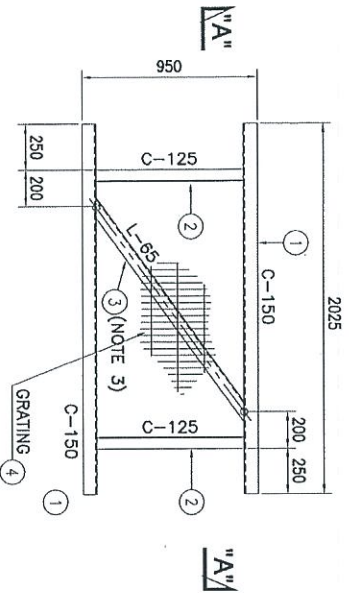
PROJECT NO. : 109	PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT Pengerang
DWG NO. : 109-001-001-001	PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.
CONSULTANT : DIALOG E & C SDN. BHD. (118290-10) 109, BLOK G, PHELO DAMANSARA 1, NO. 9, JALAN 16/11, 43350 PETLING JAYA, SELANGOR.	
DRAWING TITLE : WALKWAY PLATFORM (WITHOUT COLUMN)	
PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT Pengerang	
PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.	
CONSULTANT : DIALOG E & C SDN. BHD. (118290-10) 109, BLOK G, PHELO DAMANSARA 1, NO. 9, JALAN 16/11, 43350 PETLING JAYA, SELANGOR.	
DRAWING TITLE : WALKWAY PLATFORM (WITHOUT COLUMN)	
SCALE : AS SHOWN	CHECKED : ERMA
DRAWN : HMK	APPROVED : JMN
DATE : 16/03/13	FILE NAME : -
DWG. NO. : DH0008-ENG-C-PF-0208	SHT. NO. : 0
	1 OF 1

WALKWAY PLATFORM (WITHOUT COLUMN)		
DESCRIPTION	QTY.	TOTAL REQ'D = 1
TYPE 7-LPS-301P/TAP	1	
		TOTAL REQ'D = 1

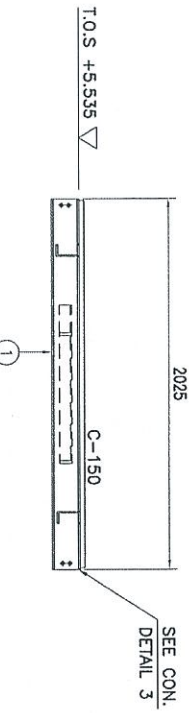
WALKWAY PLATFORM - (TYPE-8)

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (1 SET)
1	FRAME - C150 x 75 x 6.51 x 2025L	A 36 OR EQ.	2	75.3
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING - L55 x 65 x 61 x 800L	A 36 OR EQ.	1	2.5
4	FLOOR GRATING - 2005 x 930 x 25t	A 36 OR EQ.	1	55.0
TOTAL				153.4

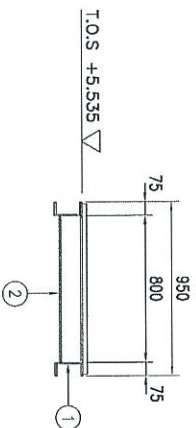
NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS D1.1.
 3. CUT TO SUIT



PLAN
PLATFORM FRAME (WITHOUT COLUMN)
FOR PUMP AREA
 SCALE 1:20



SECTION "A-A" - "A"
 SCALE 1:20



WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 8-LPS-301P/WWP	1
TOTAL REQ'D = 1	

PROJECT OWNER :
 DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
 DIALOG E & C SDN. BHD. (18888-0)
 101, BLOK G, PUSAT DAMANSARA 1,
 NO. 8, JALAN 18/71, 43200 PUSAT JAYA, SELANGOR.

DRAWING TITLE :
 LPS-301
 WALKWAY PLATFORM (WITHOUT COLUMN)

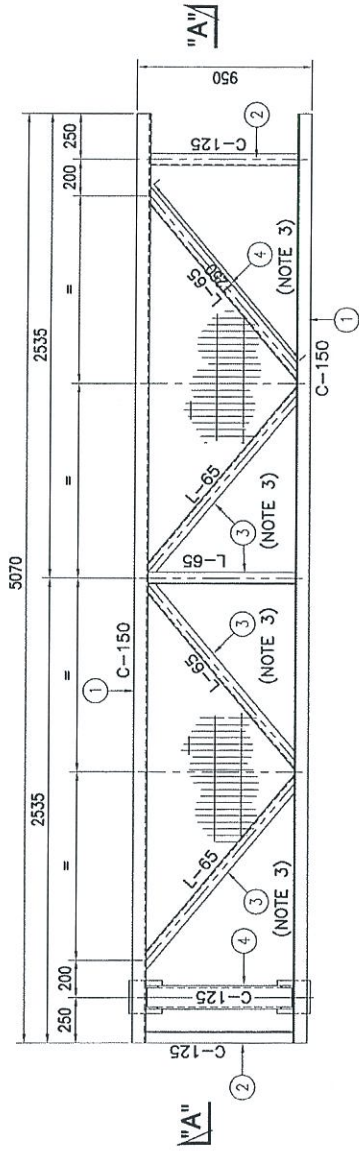
SCALE : AS SHOWN
 DRAWN : BMK
 DATE : 18/03/13
 CHK. :
 APPR. :
 DATE :
 SHEET NO. : 0
 OF 1

PROJECT TITLE :
 INDEPENDENT DEEPWATER PETROLEUM
 TERMINAL AT PENGERANG

REFERENCE DRAWINGS

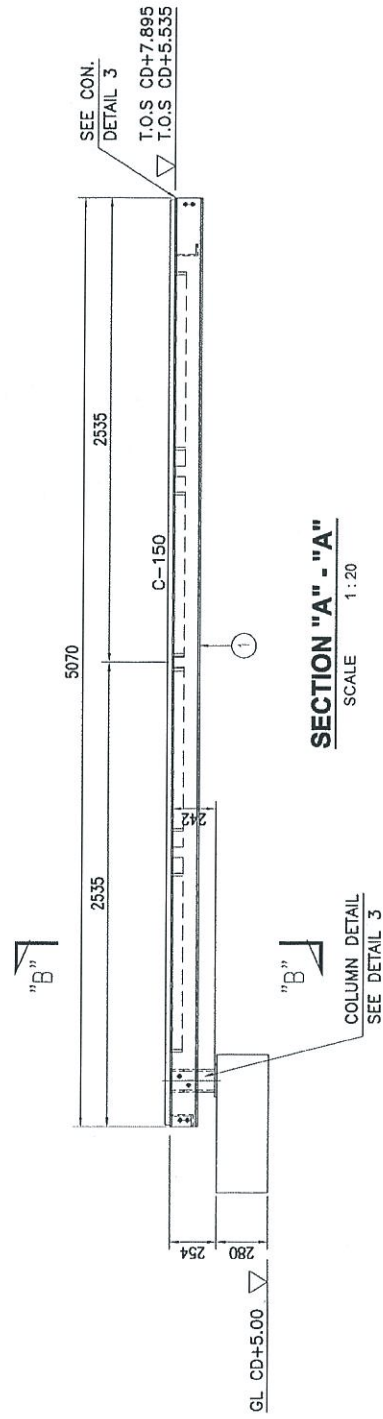
PROJ. NO. :
 DWG. NO. :
 TITLE :
 DATE :
 DRAWN BY :
 CHECKED BY :
 DATE :
 APPR. DATE :

WALKWAY PLATFORM - (TYPE-9)



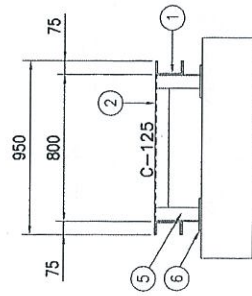
PLAN
PLATFORM FRAME TYPE 10 (WITH COLUMN)
FOR SUCTION AREA

SCALE 1:20



SECTION "A" - "A"

SCALE 1:20



SECTION "B" - "B"

SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 5070L	A 36 OR EQ.	2	188.6
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	3	21.4
3	BRACING - L65 x 65 x 61	A 36 OR EQ.	5	11.1
4	SUPPORT LEG - C125 x 75 x 91 x 800L	A 36 OR EQ.	2	10.7
5	LEG - C125 x 65 x 61 x 242L	A 36 OR EQ.	1	13.0
6	BASE PLATE - 180 x 180 x 121	A36-30	2	6.16
7	FLOOR GRATING - 5050 x 930 x 25F	A 36 OR EQ.	1	138.5
TOTAL				405.5

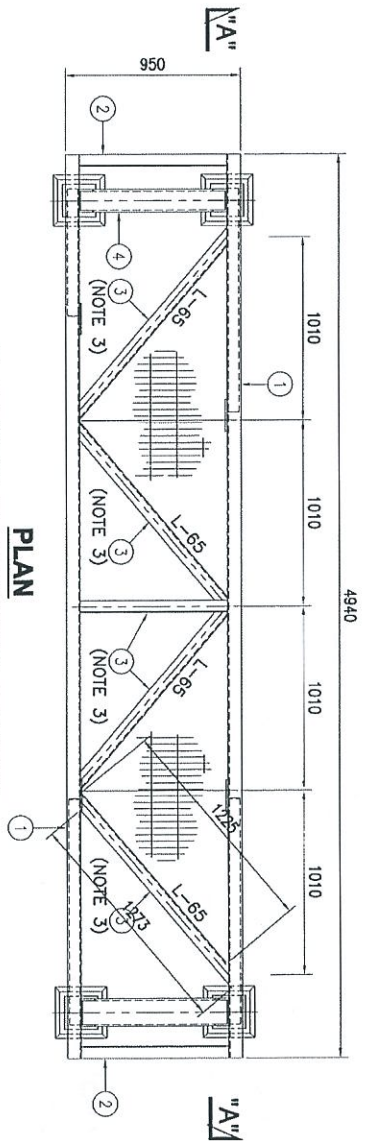
NOTE:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

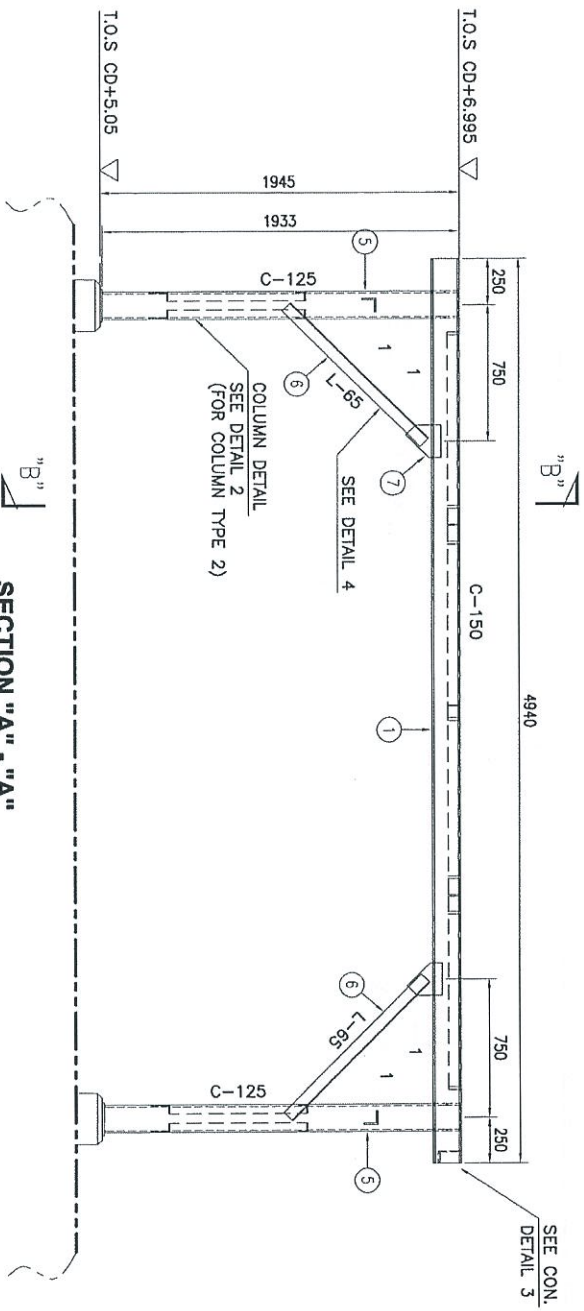
PROJECT NO.	PPING GENERAL ARRANGEMENT AT LPS-301
REVISION	MASTER PLOT PLAN FOR PHASE-1
DWG. NO.	
TITLE	REFERENCE DRAWINGS
DATE	
BY	
CHK	
APPR.	
DATE	
PROJECT TITLE	INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG
PROJECT OWNER	DIALOG INDEPENDENT TERMINALS SDN. BHD.
CONSULTANT	DIALOG E & C SDN. BHD. (181819-0)
DRAWING TITLE	WALKWAY PLATFORM WITH COLUMN (TYPE-9)
SCALE	AS SHOWN
CHECKED	ENYA
DRAWN	PAH
APPROVED	DM
DATE	18/03/13
FILE NAME	
DWG. NO.	DH0008-ENG-C-PF-0210
SHT. NO.	1
REV.	0

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 9-LPS-301S/WWP	3
TOTAL REQ'D = 3	

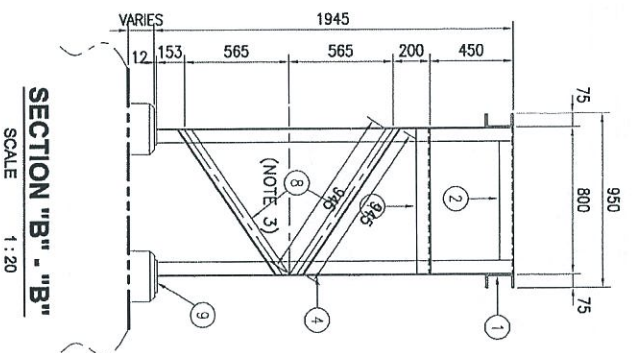
WALKWAY PLATFORM - (TYPE-9A)



PLAN
PLATFORM FRAME (WITH COLUMN)
FOR PUMP AREA
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 9A-LPS-301P/WWP	3
TOTAL REQ'D = 3	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)			
NO.	DESCRIPTION	MATERIAL	TOTAL QTY (1 SET) / WEIGHT (1 SET)
1	FRAME - C150 x 75 x 6.51 x 4940L	A 36 OR EQ.	2 / 192.3
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2 / 21.4
3	BRACING #1 - 165 x 65 x 61	A 36 OR EQ.	5 / 11.1
4	SUPPORT LEG - C125 x 75 x 91 x 800L	A 36 OR EQ.	2 / 21.4
5	LEG - C125 x 65 x 61 x 2733L	A 36 OR EQ.	4 / 98.9
6	BRACING #2 - 165 x 65 x 61 x 1737L	A 36 OR EQ.	4 / 12.9
7	CLEAT - 91	A 36 OR EQ.	4 / 9.1
8	BRACING #3 - 165 x 65 x 61 x 1439L	A 36 OR EQ.	2 / 2.8
9	BRACING #4 - 165 x 65 x 61	A 36 OR EQ.	4 / 11.3
11	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	4 / 9.4
10	FLOOR GRATING - 4920 x 930 x 251	A 36 OR EQ.	1 / 135
TOTAL			501.9

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (18838-0)
102, Block 6, PUSAT DAMANSARA 1,
NO. 9, JALAN 19/71, 47500 PUSAT JAYA, SELANGOR.

DRAWING TITLE :
LPS-301
WALKWAY PLATFORM WITH COLUMN
(TYPE-9A)

SCALE : AS SHOWN
CHECKED : ENKA
DATE : 16/03/13
FILE NAME :
DWG NO. : DH0008-ENG-C-PF-0210

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

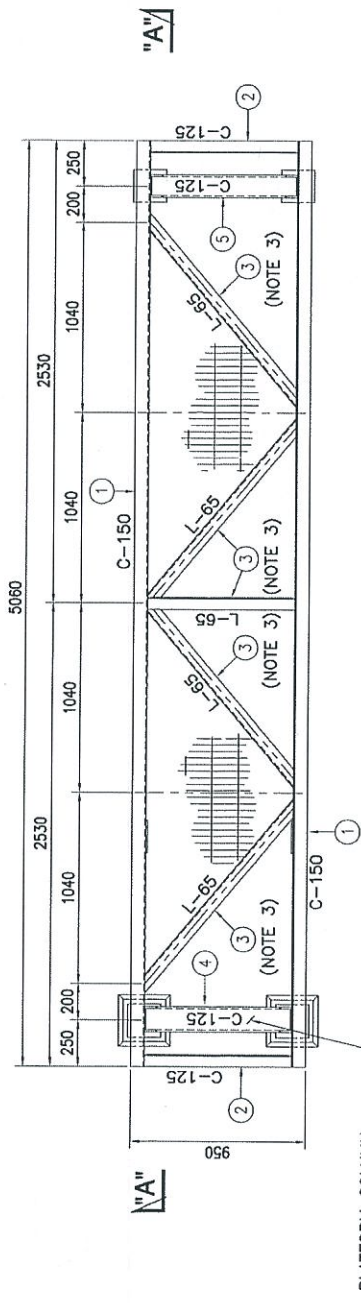
REFERENCE DRAWINGS

NO.	ISSUED FOR APPROVAL	BY	DATE
1	FOR APPROVAL	ENKA	16/03/13
2	FOR APPROVAL	ENKA	16/03/13
3	FOR APPROVAL	ENKA	16/03/13

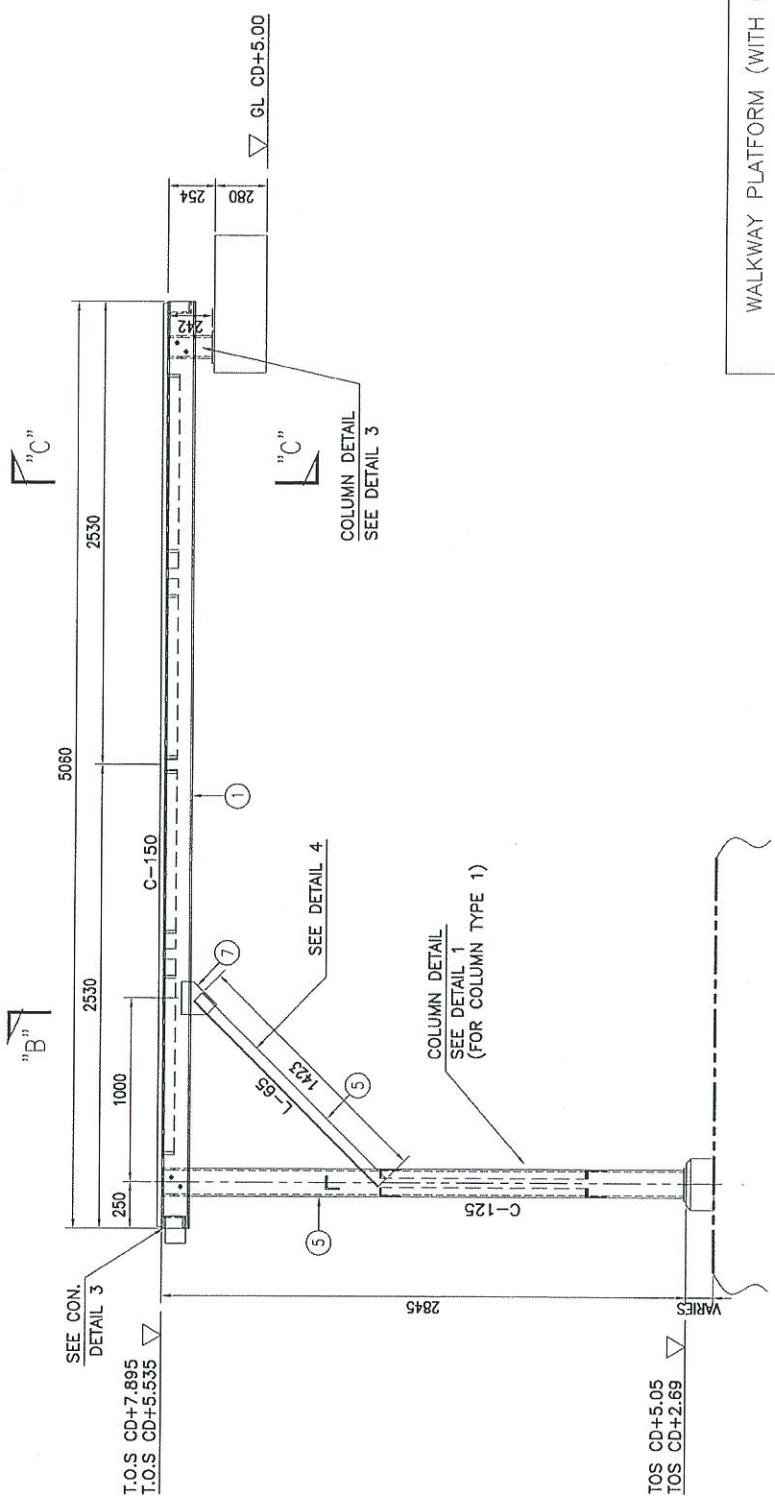
PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

PROJECT NO. :
SHEET NO. : 0
REV. NO. : 2 OF 2

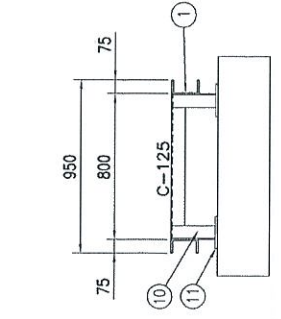
WALKWAY PLATFORM - (TYPE-10)



PLAN
PLATFORM FRAME (WITH COLUMN)
FOR SUCTION AREA
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



SECTION "C" - "C"
SCALE 1:20

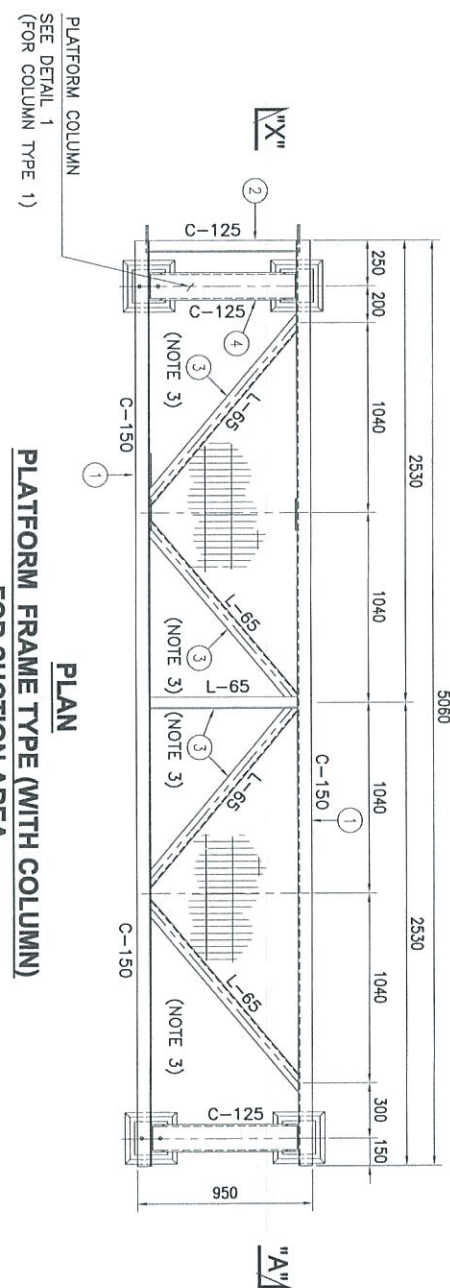
BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 5060L	A 36 OR EQ.	2	223.2
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING #1 - L65 x 65 x 61 x 800L	A 36 OR EQ.	5	11.3
4	SUPPORT LEG - C125 x 75 x 91 x 800L	A 36 OR EQ.	2	21.4
5	LEG 1# - C125 x 65 x 61 x 2733L	A 36 OR EQ.	2	146.5
6	BRACING #3 - L65 x 65 x 61	A 36 OR EQ.	4	12.9
7	CLEAT - 91	A 36 OR EQ.	4	9.1
8	BRACING #2 - L65 x 65 x 61	A 36 OR EQ.	1	2.8
9	BRACING #3 - L65 x 65 x 61	A 36 OR EQ.	4	6.3
10	LEG 2# - C125 x 65 x 61 x 242L	A 36 OR EQ.	2	6.5
11	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	12.32
12	FLOOR GRATING - 5040 x 930 x 251	A 36 OR EQ.	1	138.5
	TOTAL			624.4

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

WALKWAY PLATFORM (WITH COLUMN)	
DESCRIPTION	QTY.
TYPE 10-LPS-301S/WWP	5
TOTAL REQ'D = 5	

PROJECT NO.:	DPH0008-ENG-C-PF-0211
PROJECT TITLE:	INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG
PROJECT OWNER:	DIALOG INDEPENDENT TERMINALS SDN. BHD.
CONSULTANT:	DIALOG E & C SDN. BHD. (19280-10) 109, BLOCK 6, PHELO DAMANSARA 1, NO. 8, JALAN 16/11, 45500 PETUNG JAYA, SELANGOR.
DRAWING TITLE:	LPS-301 WALKWAY PLATFORM WITH COLUMN (TYPE-10)
SCALE:	AS SHOWN
CHECKED:	ERKA
DRAWN:	HMK
APPROVED:	LMW
DATE:	18/03/13
FILE NAME:	
SHT. NO.:	01
REV.:	0

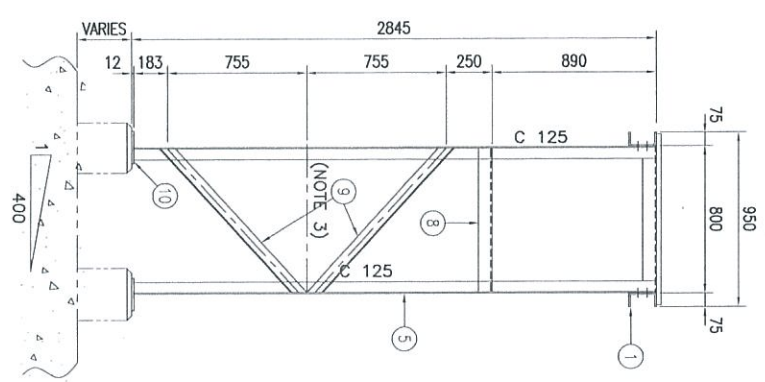
WALKWAY PLATFORM - (TYPE-11)



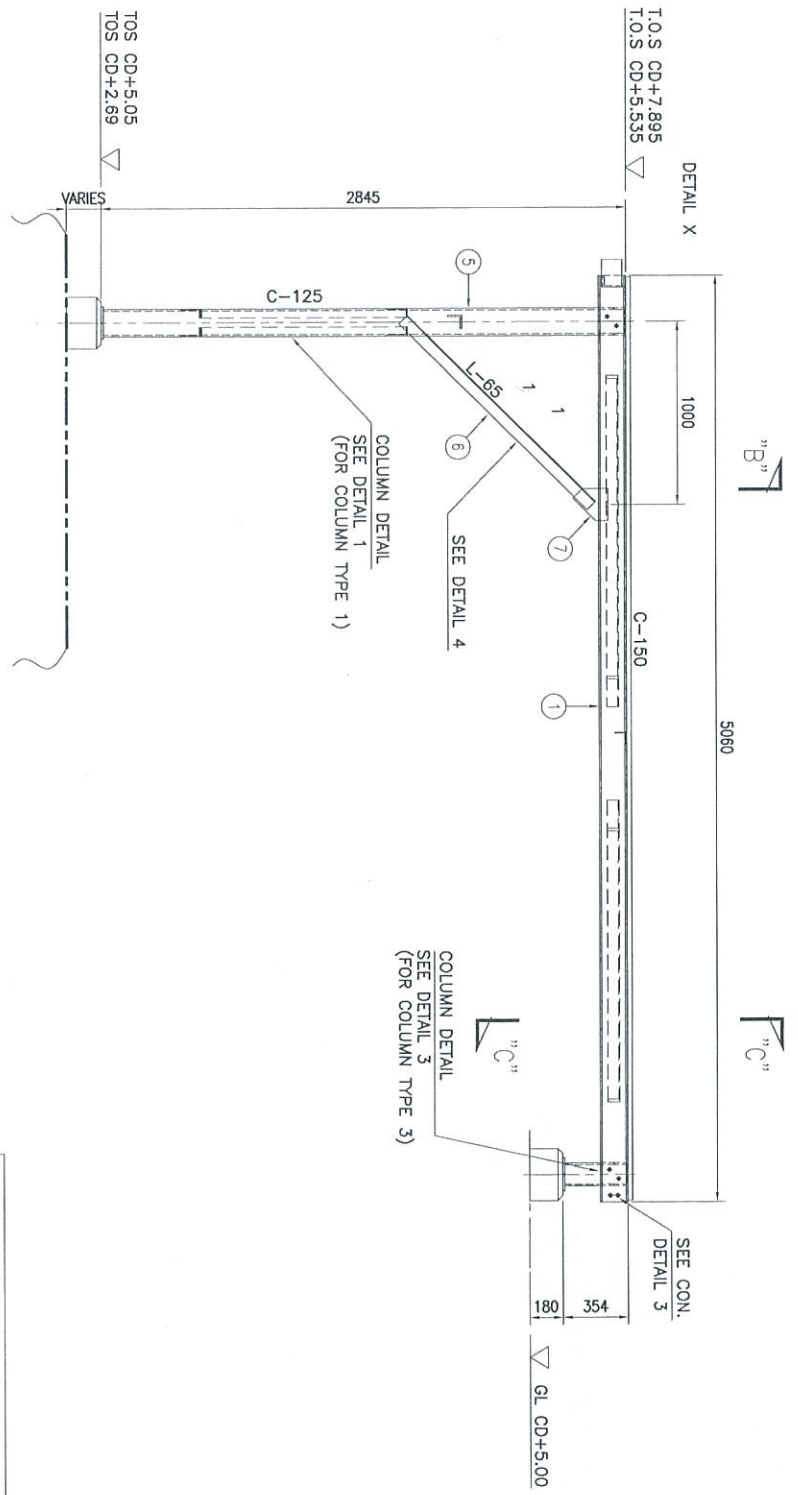
PLAN
PLATFORM FRAME TYPE (WITH COLUMN)
FOR SUCTION AREA
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG.)
1	FRAME - C150 x 75 x 6.51 x 5060L	A 36 OR EQ.	2	223.2
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	3	21.4
3	BRACING #1 - L65 x 65 x 61	A 36 OR EQ.	1	11.1
4	SUPPORT LEG - C125 x 75 x 61 x 800L	A 36 OR EQ.	2	21.4
5	LEG 1# - C125 x 65 x 61 x 2739L	A 36 OR EQ.	2	146.5
6	BRACING #2 - L65 x 65 x 61	A 36 OR EQ.	2	12.9
7	CLEAT - 91	A 36 OR EQ.	2	9.1
8	BRACING #3 - L65 x 65 x 61	A 36 OR EQ.	1	2.8
9	BRACING #4 - L65 x 65 x 61	A 36 OR EQ.	2	6.3
10	LEG 2# - C125 x 65 x 61 x 242L	A 36 OR EQ.	2	6.5
11	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	12.32
12	FLOOR GRATING - 5040 x 930 x 25t	A 36 OR EQ.	1	138.3
TOTAL				624.4

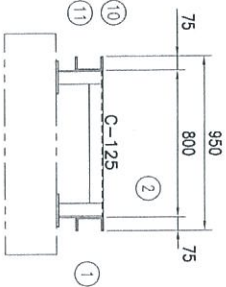
NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D11.1.
3. CUT TO SUIT



SECTION "B" - "B"
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



SECTION "C" - "C"
SCALE 1:20

WALKWAY PLATFORM (WITH COLUMN)	
DESCRIPTION	QTY.
TYPE 11-LPS-301S/WWP	2
TOTAL REQ'D =	2

PROJECT OWNER:
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT:
DIALOG E & C SDN. BHD. (1993-0)
101, 1000 G. PETER DUNBARON, L1
NO. 8, JALAN 9/111, 43500 PETLING JAYA, SELANGOR.

PROJECT TITLE:
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

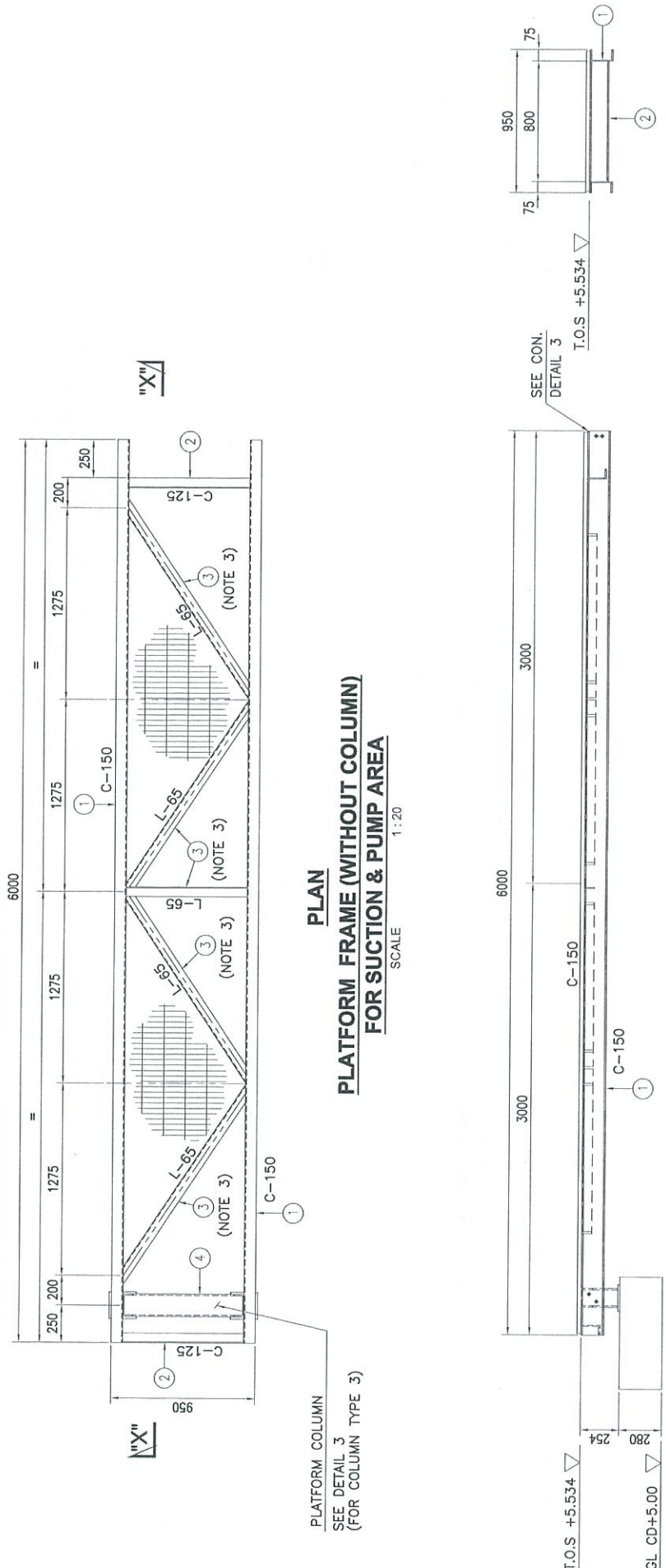
SCALE:
AS SHOWN

DATE:
18/03/15

DWG. NO.:
DH0008-BNC-C-PF-0212

REV.:
1 OF 1

WALKWAY PLATFORM - (TYPE-12)



PLAN
PLATFORM FRAME (WITHOUT COLUMN)
FOR SECTION & PUMP AREA
 SCALE 1:20

SECTION "X" - "X"
 SCALE 1:20

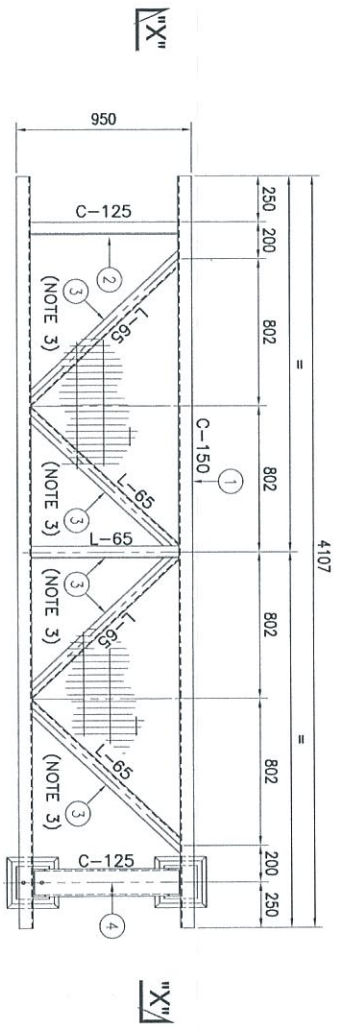
NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 6000L	A 36 OR EQ.	2	223.2
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	32.2
3	BRACING #1 - L65 x 65 x 6t	A 36 OR EQ.	5	11.1
4	SUPPORT LEG - C125 x 65 x 91 x 800L	A 36 OR EQ.	2	29.2
5	LEG - C125 x 65 x 61 x 2733L	A 36 OR EQ.	1	41.1
6	BASE PLATE - 180 x 180 x 12t	(A 283 C) A36 OR EQ.	2	3.2
7	FLOOR GRATING - 5980 x 930 x 25t	A 36 OR EQ.	1	164.1
	TOTAL			565.4

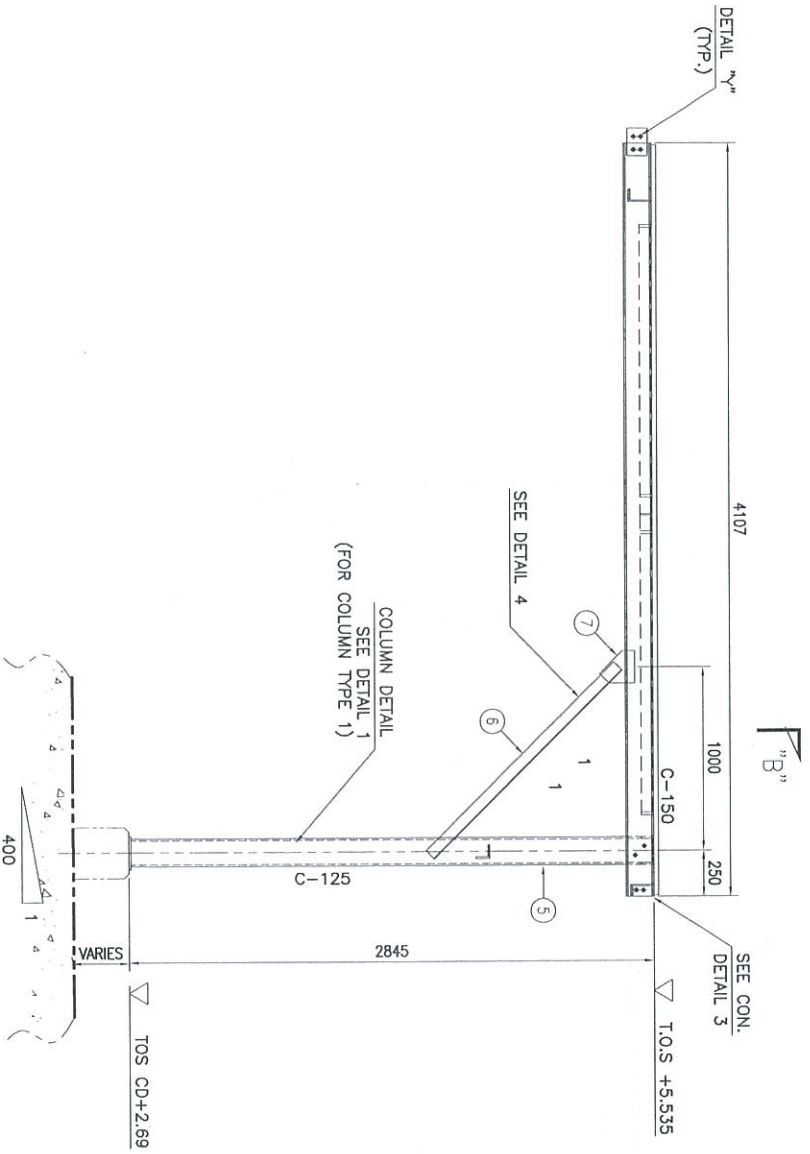
WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 12-LPS-301S/WWP	4
TYPE 12-LPS-301P/WWP	1
TOTAL REQ'D = 5	

PROJECT OWNER : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG	
PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG	
CONSULTANT : DIALOGUE & C SDN. BHD. (181818-0)	
DRAWING TITLE : LPS-301 WALKWAY PLATFORM WITH COLUMN (TYPE-12)	
SCALE : AS SHOWN	CHECKED : ESKA
DRAWN : PAN	APPROVED : UAM
DATE : 18/03/13	FILENAME : -
DWG. NO. : DH0008-ENG-C-PF-0212	SHEET NO. : 0
	REV. : 1 OF 1

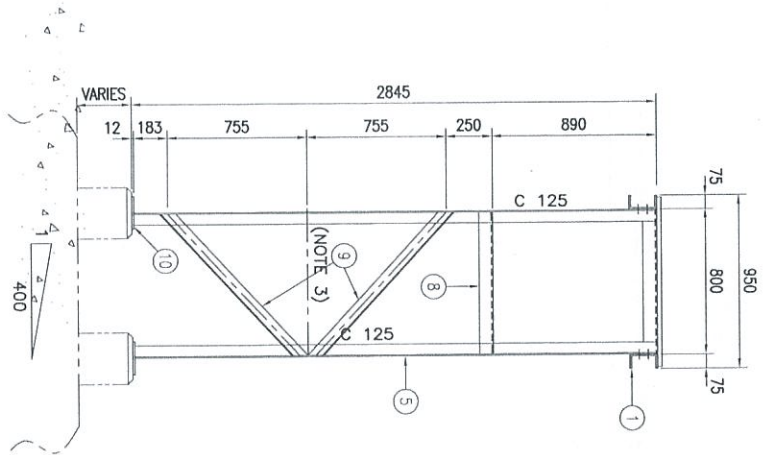
WALKWAY PLATFORM - (TYPE-13)



PLAN
PLATFORM FRAME (WITHOUT COLUMN)
FOR PUMP AREA
 SCALE 1:20



SECTION A-A



SECTION B-B

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 13-LPS-301P/WWP	1
TOTAL REQ'D = 1	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)			
NO.	DESCRIPTION	MATERIAL	TOTAL QTY (1 SET)
1	FRAME - C150 x 75 x 6.51 x 4087L	A 36 OR EQ.	2
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	223.2
3	BRACING #1 - 165 x 65 x 61	A 36 OR EQ.	21.4
4	BRACING #2 - 165 x 65 x 61	A 36 OR EQ.	11.1
5	SUPPORT LEG - C125 x 75 x 61 x 800L	A 36 OR EQ.	2
6	LEG - C125 x 65 x 61 x 2733L	A 36 OR EQ.	2
7	BRACING #3 - 165 x 65 x 61	A 36 OR EQ.	2
8	BRACING #4 - 165 x 65 x 61	A 36 OR EQ.	2
9	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	4
10	FLOOR GRATING - 4087 x 950 x 251	A 36 OR EQ.	2
11			112.1
TOTAL			624.4

NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

PROJECT OWNER :
 DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG
 DIALOG E & C SDN. BHD. (18328-D)
 101, Block 5, Phase 5 Damansara 1,
 NO. 9, JALAN 19/11, 47500 PUNJANG JAYA, SELANGOR.

PROJECT TITLE :
 INDEPENDENT DEEPWATER PETROLEUM
 TERMINAL AT PENGERANG

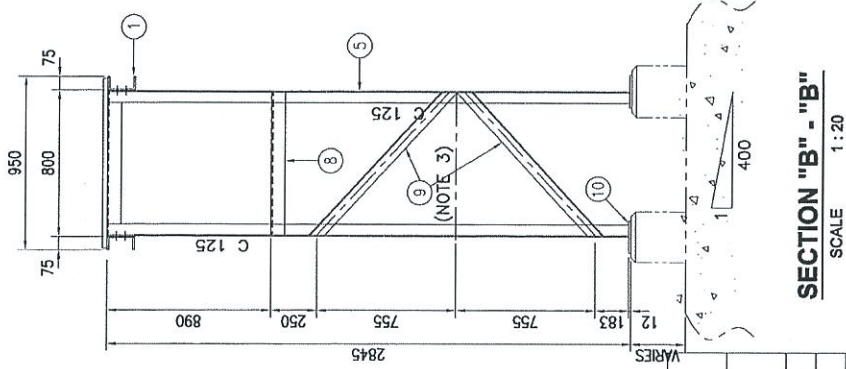
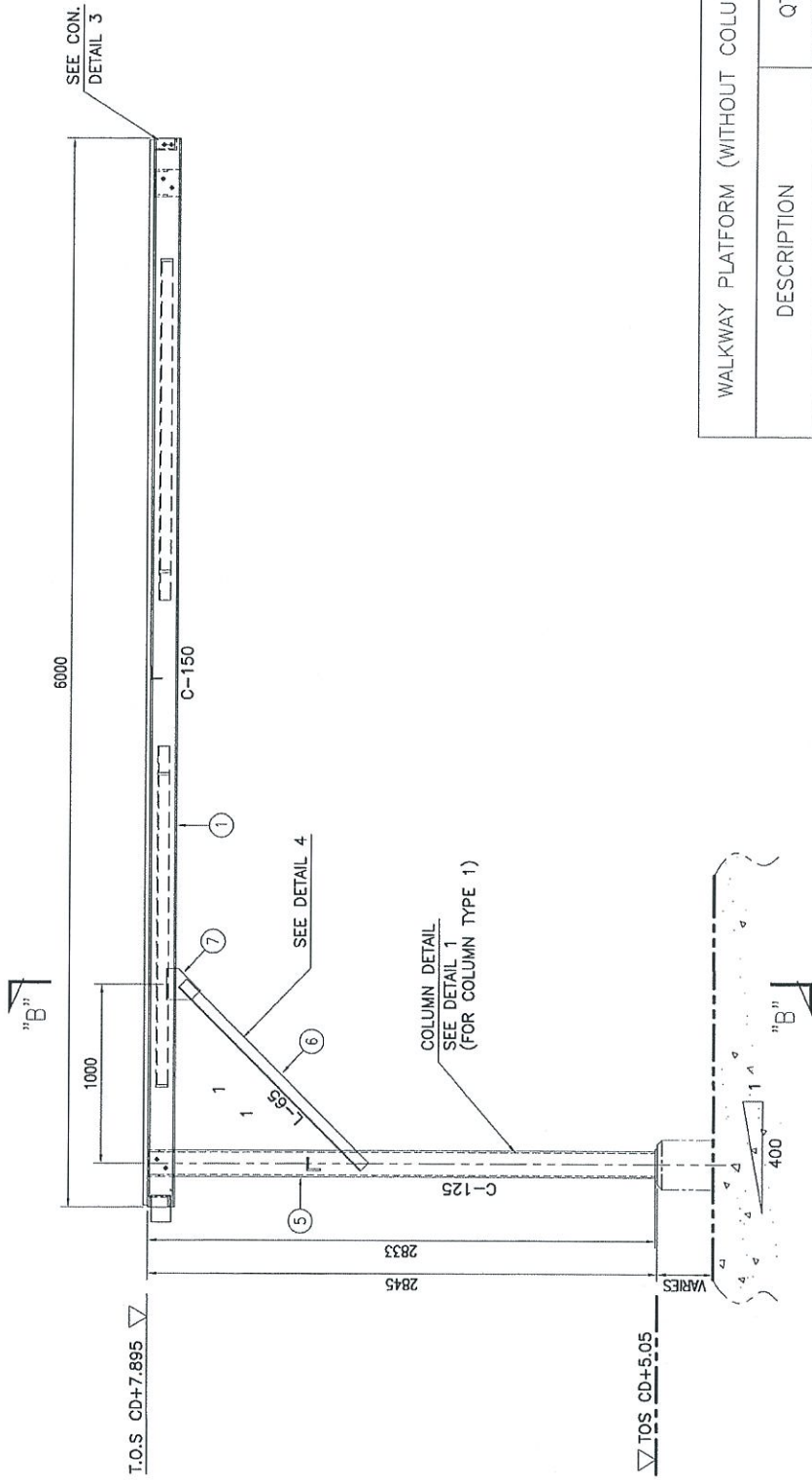
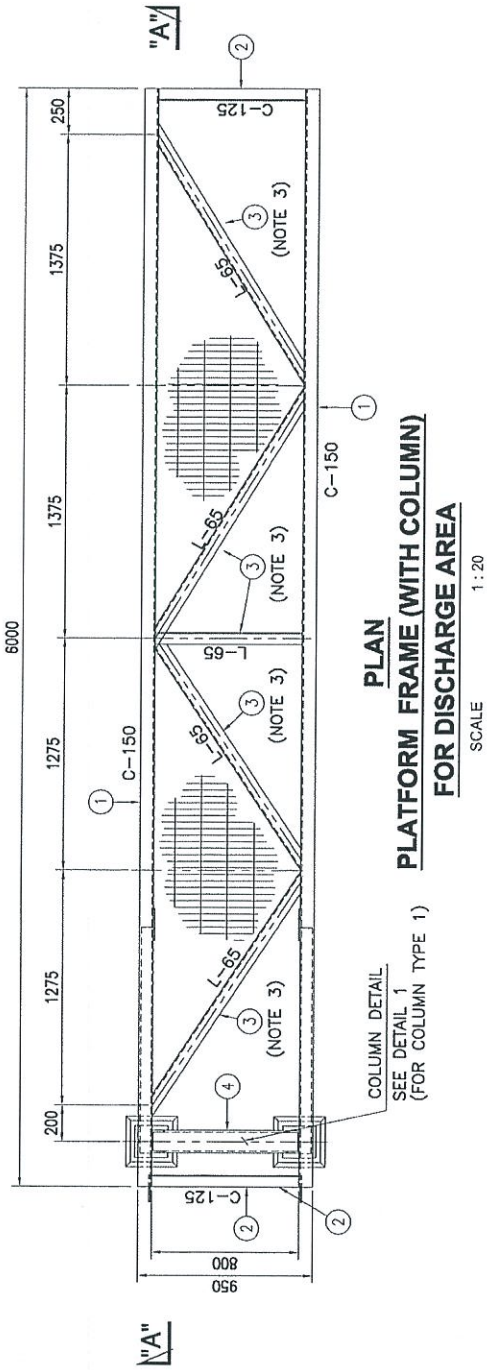
SCALE : AS SHOWN
 DRAWN : PMM
 DATE : 18/03/13
 SHEET NO. : 0

DATE : 18/03/13
 CHECKED : BMA
 APPROVED : LJM
 DRAWING NO. : DH0009-ENG-C-PF-0214

REFERENCE DRAWINGS
 TITLE :
 NO. :
 DATE :

APPROVALS
 DESIGNED BY :
 CHECKED BY :
 DATE :
 APPROVED BY :
 DATE :

WALKWAY PLATFORM - (TYPE-1A)



DESCRIPTION	QTY.
WALKWAY PLATFORM (WITHOUT COLUMN)	
TYPE 9A-LPS-302P/WWP	2
TOTAL REQ'D = 2	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

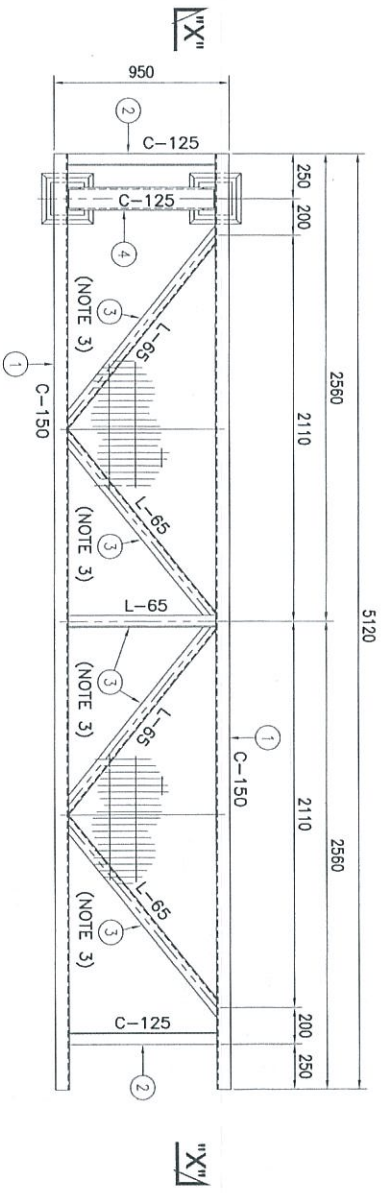
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KGS. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 6000L	A 36 OR EQ.	2	223.2
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING #1 - L65 x 65 x 61	A 36 OR EQ.	5	11.3
4	SUPPORT LEG - C125 x 75 x 91 x 800L	A 36 OR EQ.	1	21.4
5	LEG 1# - C125 x 65 x 61 x 2733L	A 36 OR EQ.	2	146.5
6	BRACING #2 - L65 x 65 x 61 x 1737L	A 36 OR EQ.	2	12.9
7	CLEAT - 91	A 202-C/A36	2	9.1
8	BRACING #3 - L65 x 65 x 61 x 1453L	A 36 OR EQ.	1	2.8
9	BRACING #4 - L65 x 65 x 61 x	A 36 OR EQ.	2	6.3
10	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	12.32
11	FLOOR GRATING - 2985 x 930 x 251	A 36 OR EQ.	2	140.5
12				
TOTAL				607.5

NOTE:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS D1.1.
3. CUT TO SUIT

PROJECT NO. : 1700-00-PP-01-002-SP1-1-7		PPWD GENERAL ARRANGEMENT AT LPS-301	
DRAWING NO. : 1700-00-PP-001-Rev.1		WATER TREAT PLANT FOR PHASE-1	
REFERENCE DRAWINGS			
NO.	ISSUED FOR APPROVAL	BY	DATE
1	ISSUED FOR COMMENT	ERKA	18/03/13
2	ISSUED FOR COMMENT	ERKA	18/03/13
PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG			
PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.			
CONSULTANT : DIALOG E & C SDN. BHD. (18839-0) 109, BLOCK G, PHELO DAMANSARA 1, NO. 9, JALAN 16/71, 46200 PETUNG JAYA, SELANGOR.			
DRAWING TITLE : LPS-301 WALKWAY PLATFORM WITH COLUMN (TYPE-13A)			
SCALE : AS SHOWN	CHECKED : ERKA		
DRAWN : ERKA	APPROVED : LMK		
DATE : 18/03/13	FILENAME : -		
DWG. NO. : DH0008-ENG-C-PF-0214	SIT. NO. : (A)	REV. : -	REV. : 0
		2 OF 2	

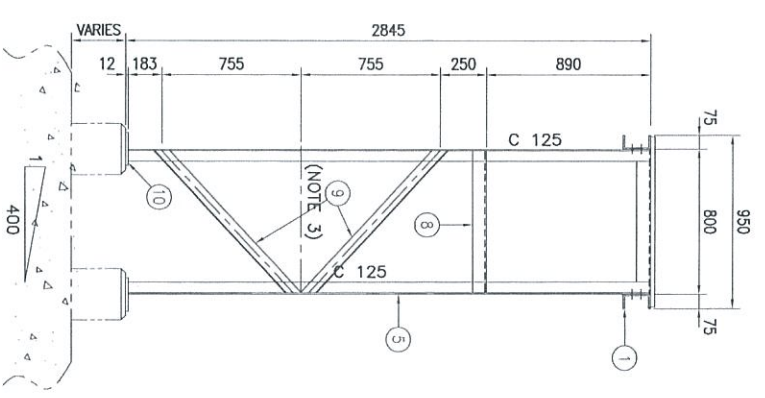
WALKWAY PLATFORM - (TYPE-14)



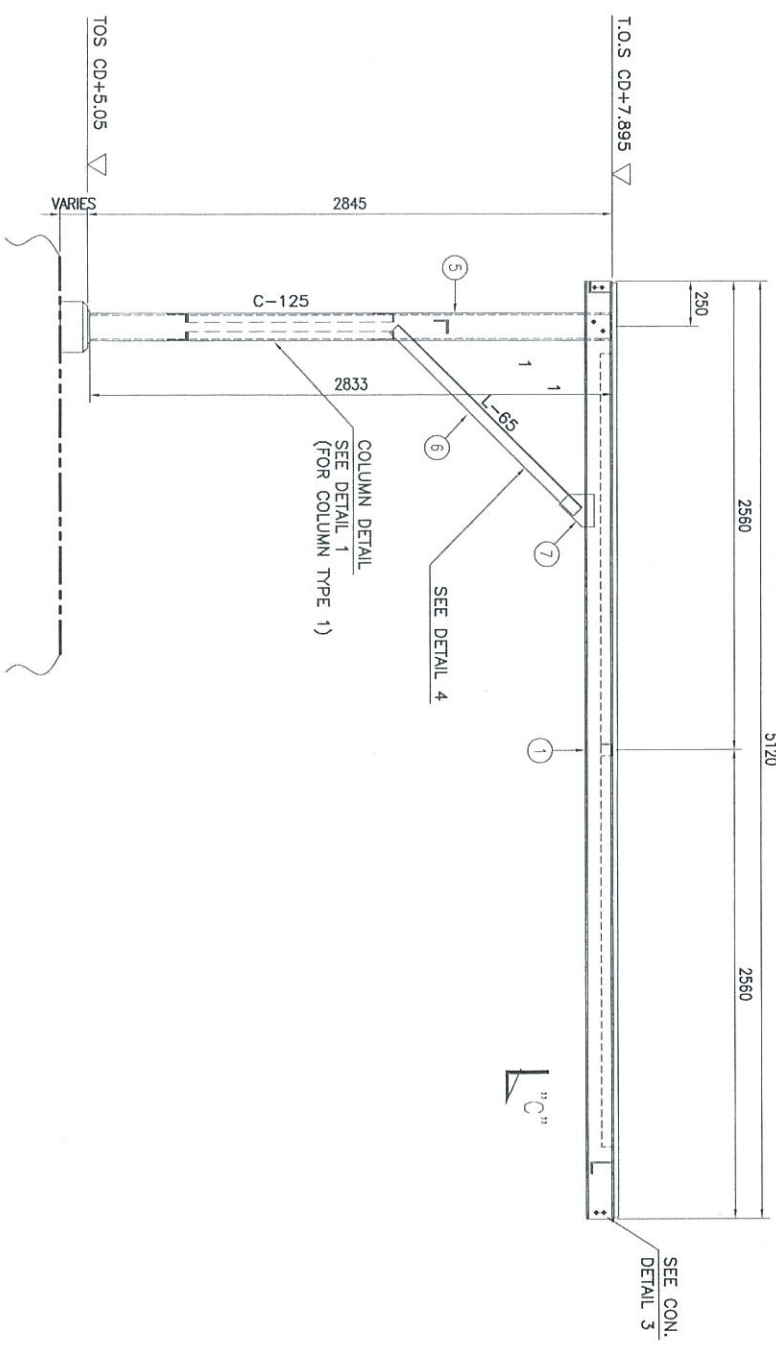
PLAN
PLATFORM FRAME (WITH COLUMN)
FOR DISCHARGE AREA
 SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG) (1 SET)
1	FRAME - C150 x 75 x 6.51 x 5120L	A 36 OR EQ.	2	190.5
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING #1 - 165 x 65 x 61	A 36 OR EQ.	1	2.8
4	SUPPORT LEG - C125 x 75 x 91 x 800L	A 36 OR EQ.	1	21.4
5	LEG 1# - C125 x 65 x 61 x 273L	A 36 OR EQ.	2	146.5
6	BRACING #2 - 165 x 65 x 61 x 1737L	A 36 OR EQ.	2	12.9
7	CLEAT - 91	A 36 A36	2	9.1
8	BRACING #3 - 165 x 65 x 61 x 1453L	A 36 OR EQ.	1	2.8
9	BRACING #4 - 165 x 65 x 61 x 1453L	A 36 OR EQ.	2	6.3
10	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	12.32
11	FLOOR GRATING - 5100 x 930 x 251	A 36 OR EQ.	1	139.9
TOTAL				574.8

NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

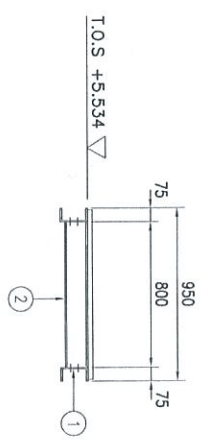


SECTION "B" - "B"
 SCALE 1:20



SECTION "A" - "A"
 SCALE 1:20

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 14-LPS-301D/WWP	3
TOTAL REQ'D = 3	



SECTION "C" - "C"
 SCALE 1:20

PROJECT OWNER: DIALOG INDEPENDENT TERMINALS SDN. BHD.
 PROJECT TITLE: INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

CONSULTANT: DIALOG E & C SDN. BHD. (18328-0)
 NO. 9, JALAN 16/71, 47500 PENANG, MALAYSIA

DRAWING TITLE: WALKWAY PLATFORM WITH COLUMN (TYPE-14)

SCALE: AS SHOWN
 DRAWN: PAM
 DATE: 16/02/15

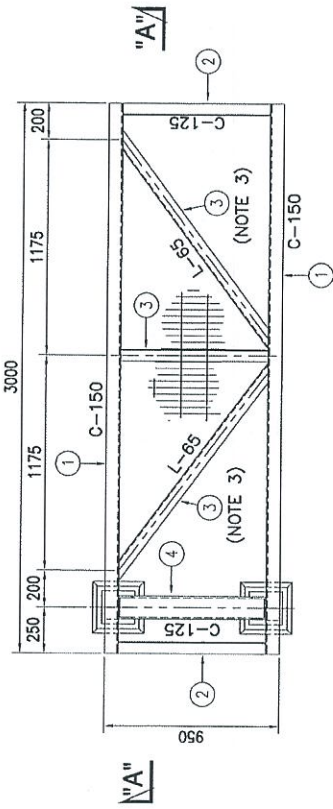
CHECKED: EMK
 APPROVED: LMK
 FILENAME: -
 SHEET NO.: 0
 REV: 1 OF 3

DWG. NO.: DH0008-ENG-C-PF-0215

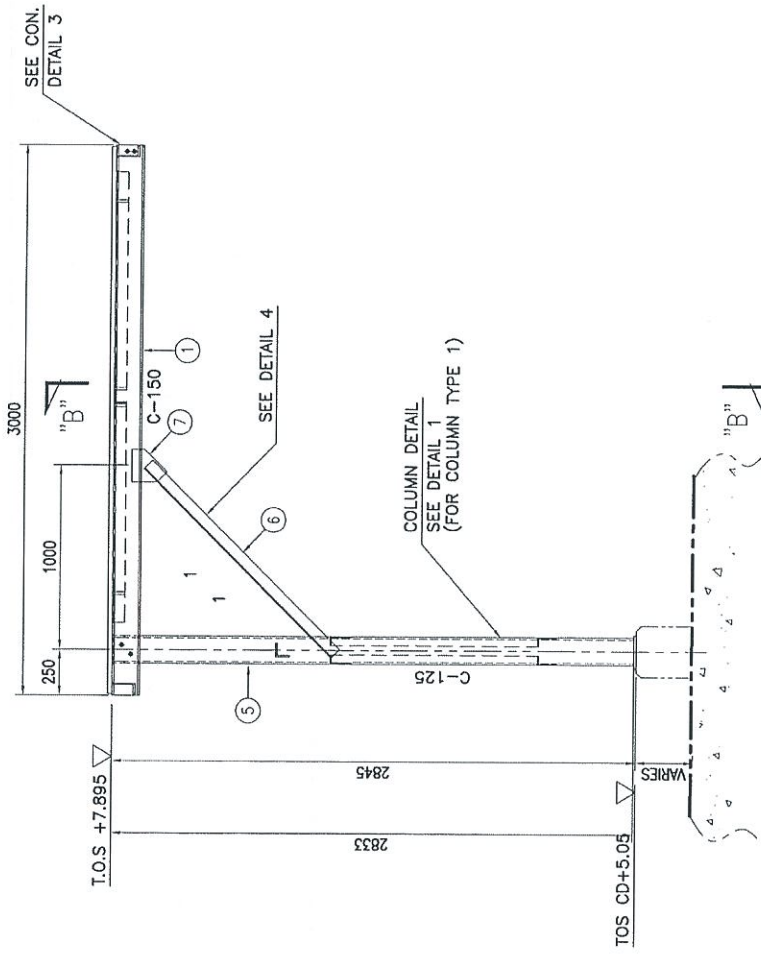
REFERENCE DRAWINGS:
 Piping General Arrangement of LPS-301
 Master Plot Plan for Project

DATE: 15/07/15

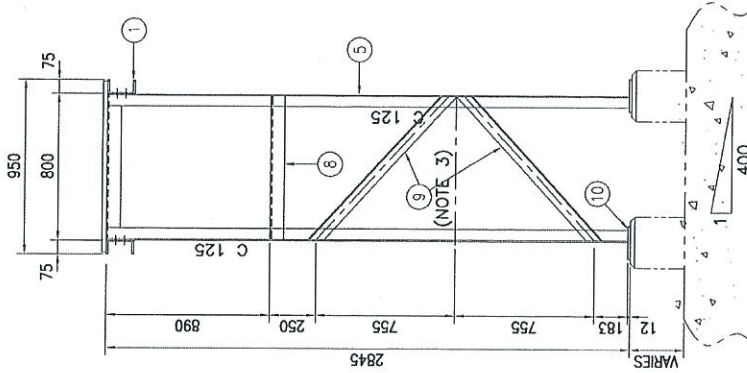
WALKWAY PLATFORM - (TYPE-14A)



PLAN
PLATFORM FRAME (WITH COLUMN)
FOR DISCHARGE AREA
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 14A-LPS-301D/WWP	1
TOTAL REQ'D = 1	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

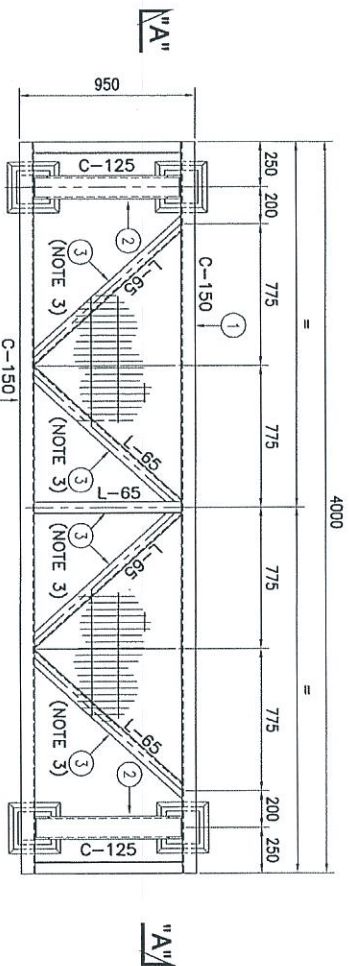
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.5t x 3000L	A 36 OR EQ.	2	111.6
2	FRAME - C125 x 65 x 6t x 800L	A 36 OR EQ.	2	21.4
3	BRACING #1 - L65 x 65 x 6t	A 36 OR EQ.	3	11.1
4	SUPPORT LEG - C125 x 75 x 6t x 800L	A 36 OR EQ.	1	21.4
5	LEG 1# - C125 x 65 x 6t x 2733L	A 36 OR EQ.	2	146.5
6	BRACING #2 - L65 x 65 x 6t	A 36 OR EQ.	2	12.9
7	CLEAT - 9t	A 36 OR EQ.	2	9.1
8	BRACING #3 - L65 x 65 x 6t	A 36 OR EQ.	1	2.8
9	BRACING #4 - L65 x 65 x 6t	A 36 OR EQ.	2	6.3
10	BASE PLATE - 180 x 180 x 12t	A 36 OR EQ.	2	12.32
11	FLOOR GRATING - 2280 x 930 x 25t	A 36 OR EQ.	1	81.8
TOTAL				495.9

NOTE:

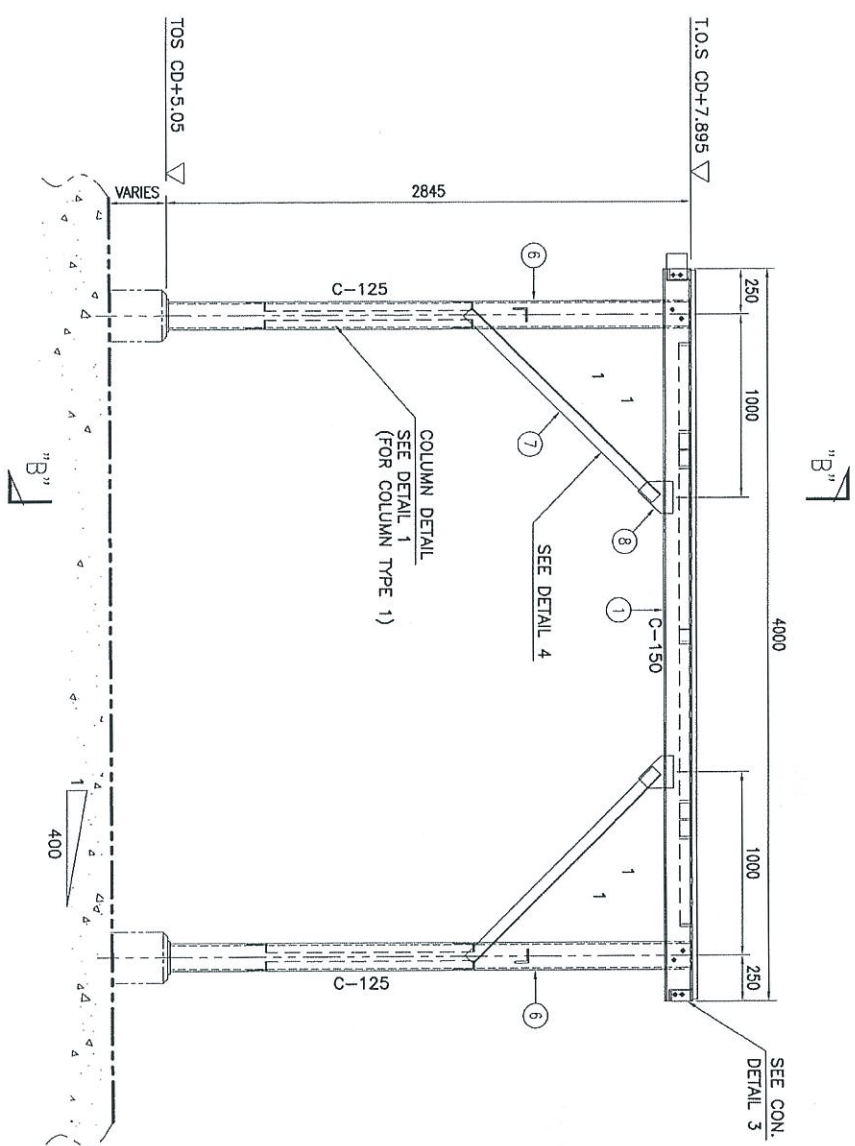
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D11.1.
3. CUT TO SUIT

PROJECT OWNER :		INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG	
CONSULTANT :		DIALOG E & C SDN. BHD. (118780-0) 108, BLOK 8, PULAU DAMANSARA 1, NO. 3, JALAN 16/11, 4300 PENJANG, SELANGOR.	
DRAWING TITLE :		LPS-301 WALKWAY PLATFORM WITH COLUMN (TYPE-14A)	
SCALE :	AS SHOWN	CHECKED :	ERVA
DRAWN :	PAW	APPROVED :	UCM
DATE :	18/03/13	FILE NAME :	-
DWG. NO. :	DH0008-ENG-C-PF-0215	SHT. NO. :	2 OF 3

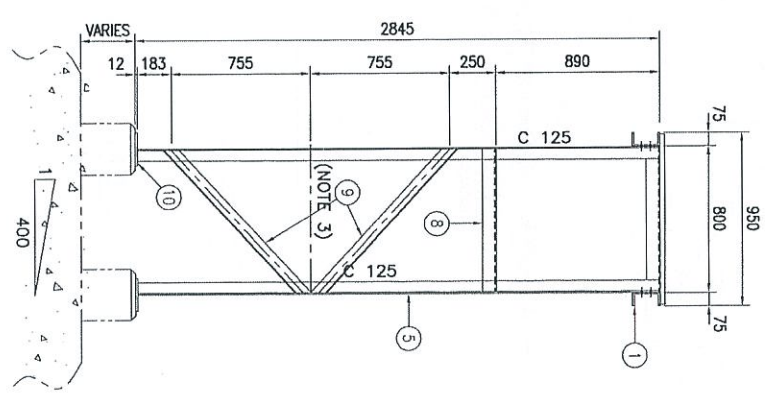
WALKWAY PLATFORM - (TYPE-14B)



PLAN
PLATFORM FRAME (WITH COLUMN)
FOR DISCHARGE AREA
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 14B-LPS-301D/WWP	1
TOTAL REQ'D = 1	

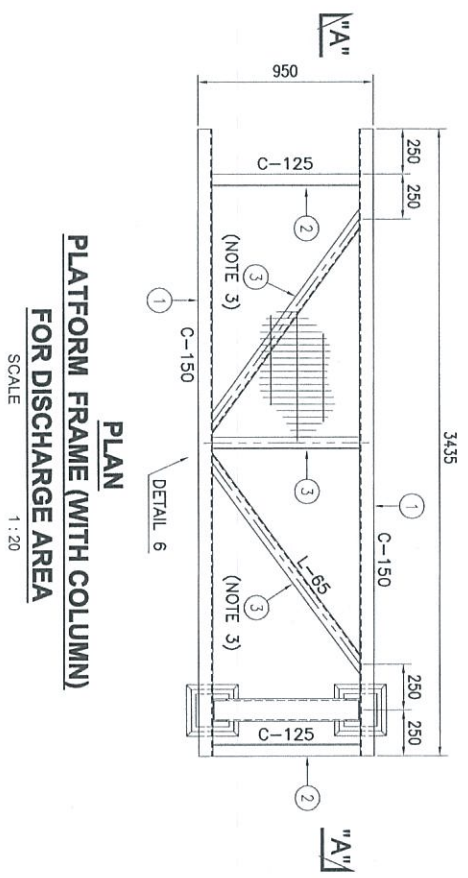
BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 4000L	A 36 OR EQ.	2	148.8
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	3	21.4
3	BRACING #1 - 1.65 x 65 x 61	A 36 OR EQ.	5	11.1
4	SUPPORT LEG - C125 x 65 x 61 x 2733L	A 36 OR EQ.	2	21.4
5	LEG - C125 x 65 x 61 x 2733L	A 36 OR EQ.	4	146.5
6	BRACING #2 - 1.65 x 65 x 61	A 36 OR EQ.	4	12.9
7	CLEAT - 91	A-285-C A36	4	9.1
8	BRACING #3 - 1.65 x 65 x 61 x 800L	A 36 OR EQ.	2	1.4
9	BRACING #4 - 1.65 x 65 x 61	A 36 OR EQ.	4	4.9
10	BASE PLATE - 180 x 180 x 12H	A 36 OR EQ.	4	12.32
11	FLOOR GRATING - 3985 x 930 x 25I	A 36 OR EQ.	1	109.2
TOTAL				558.6

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

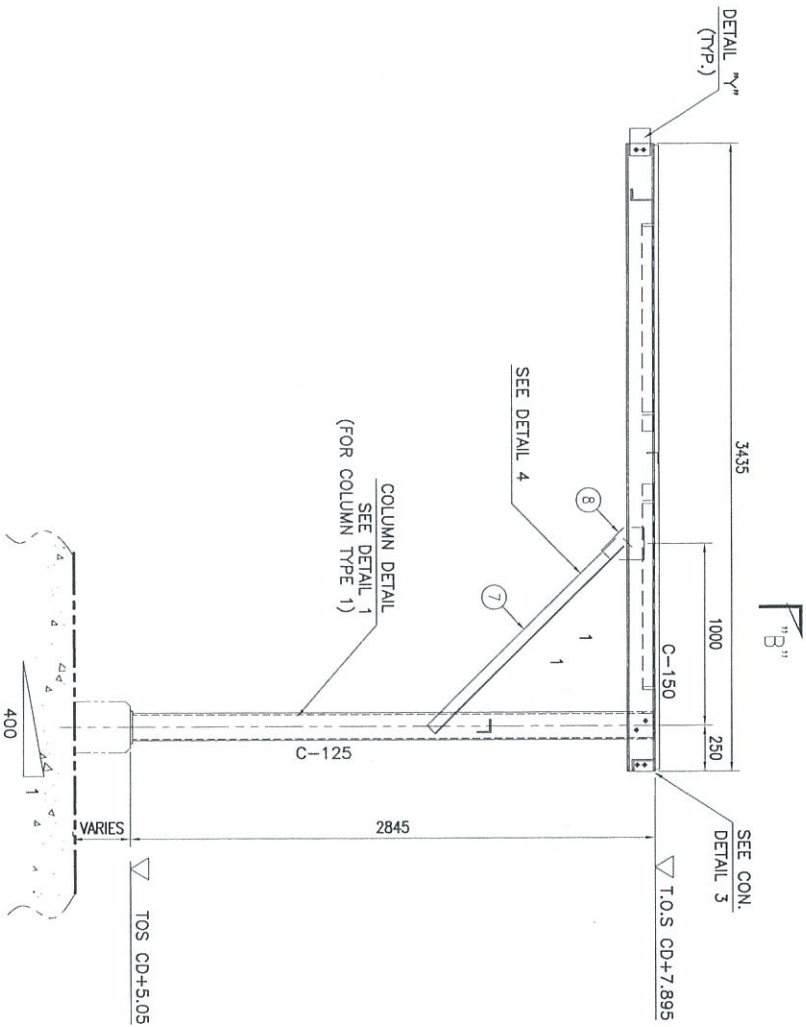
NO.	REVISION	DATE	BY	CHK.	APP.
1	ISSUED FOR APPROVAL	16/07/15	MM	EMM	MM
2	ISSUED FOR COMMENT	16/07/15	MM	EMM	MM

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.
CONSULTANT :
DIALOG E & C SDN. BHD. (18359-0)
No. 9, Jalan 19/11, 43200 Pengerang, Joho, Selangor.
DRAWING TITLE :
WALKWAY PLATFORM WITH COLUMN (TYPE-14B)
SCALE : AS SHOWN
DRAWN : PAM
DATE : 16/07/15
CHECKED : EMM
APPROVED : LMM
FILENAME :
DWG. NO. : DHO008-ENG-C-PF-0215

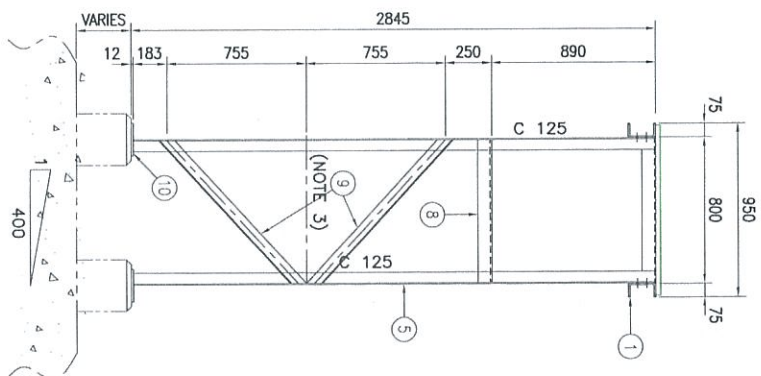
WALKWAY PLATFORM - (TYPE-15A)



PLAN
PLATFORM FRAME (WITH COLUMN)
FOR DISCHARGE AREA
SCALE 1:20



SECTION "A-A" - "A-A"
SCALE 1:20



SECTION "B-B" - "B-B"
SCALE 1:20

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 14B-LPS-301D/WWP	3
TOTAL REQ'D = 3	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.51 x 3435L	A 36 OR EQ.	2	127.8
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING #1 - L65 x 65 x 61	A 36 OR EQ.	3	11.1
4	SUPPORT LEG - C125 x 65 x 61 x 2733L	A 36 OR EQ.	1	21.4
5	LEG - 1# - C125 x 65 x 61 x 2733L	A 36 OR EQ.	2	146.5
6	BRACING #2 - L65 x 65 x 61	A 36 OR EQ.	2	12.9
7	CLEAT - 91	A 36 OR EQ.	2	9.1
8	BRACING #3 - L65 x 65 x 61	A 36 OR EQ.	1	2.8
9	BRACING #4 - L65 x 65 x 61	A 36 OR EQ.	2	6.3
10	BASE PLATE - 180 x 180 x 12#	A 36 OR EQ.	2	12.32
11	FLOOR GRATING - 3415 x 930 x 25#	A 36 OR EQ.	1	93.7
TOTAL				479.9

NOTE:
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (198298-D)
101, Block C, Phase 2, Sunway Velocity 1,
No. 9, Jalan 19/11, 43000 Petaling Jaya, Selangor.

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

DATE : 16/03/13

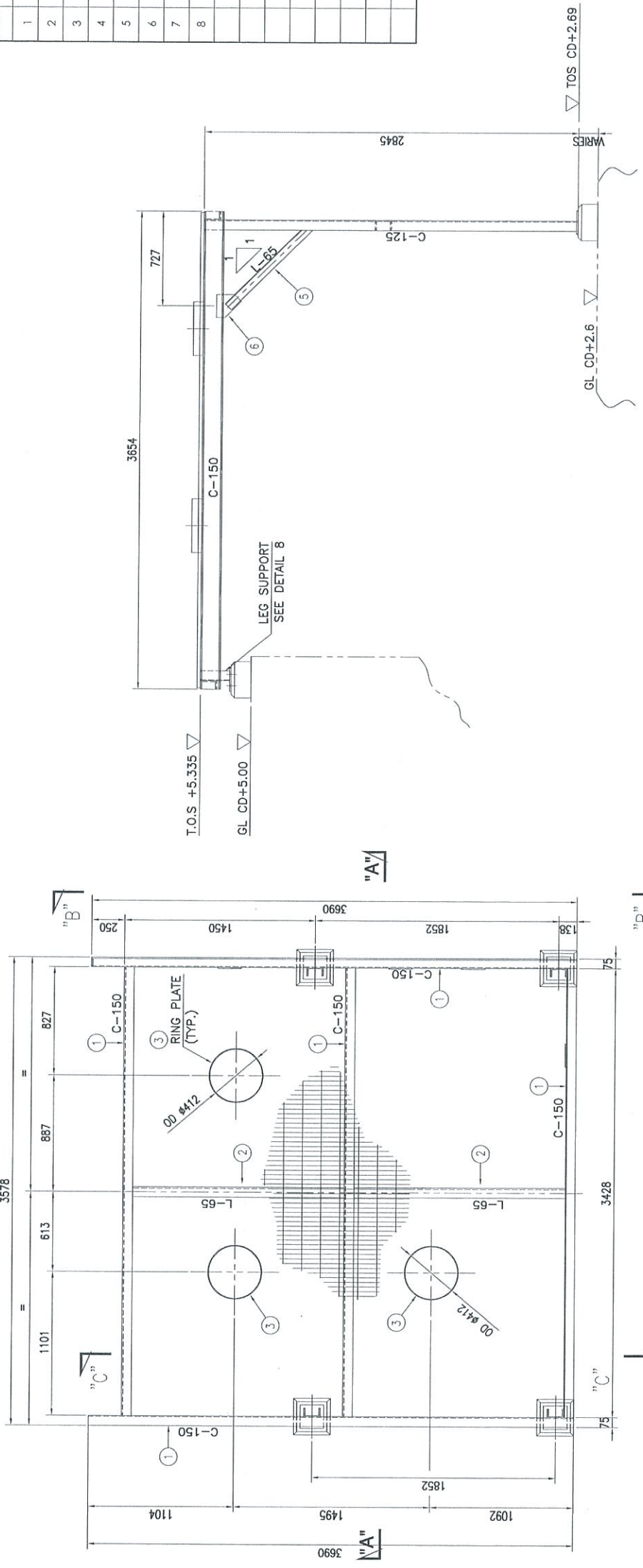
SCALE : AS SHOWN

DWG. NO. : DH0008-ENG-C-PF-0216

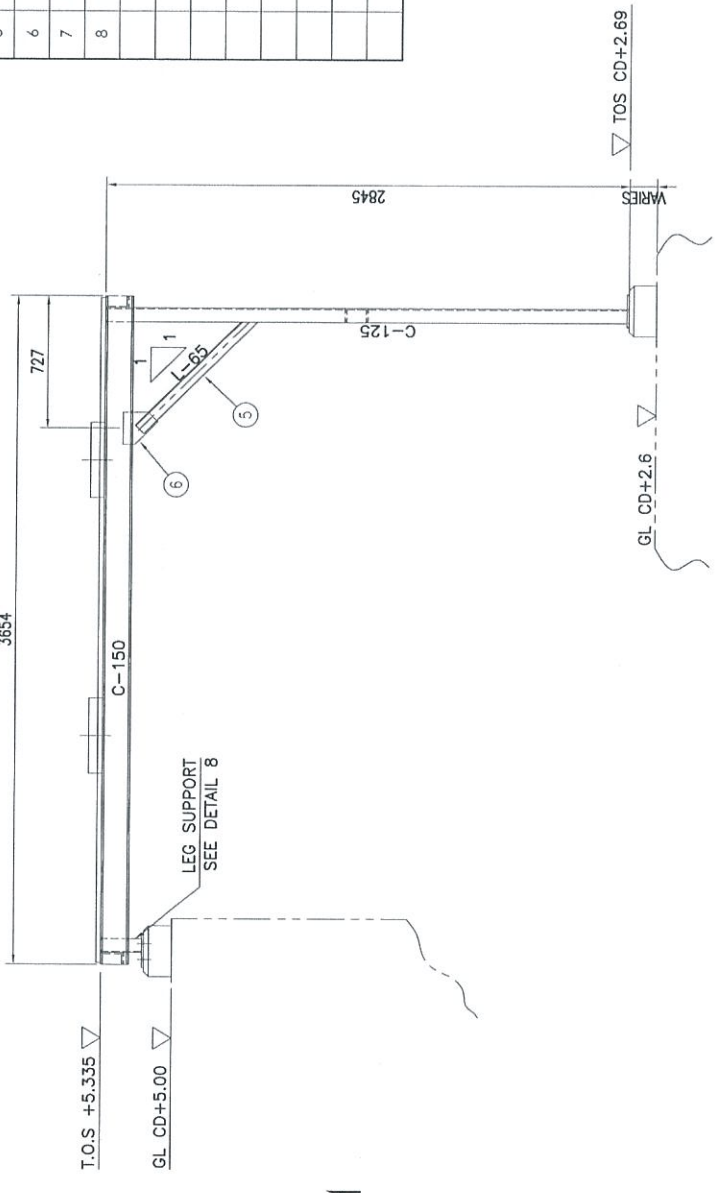
28

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	FRAME - C150 x 75 x 6.5t x 18.6kg/m	A 36 OR EQ.	3	328.6
2	FRAME - L65 x 65 x 6t x 13.4kg/m	A 36 OR EQ.	1	102.4
3	RING PLATE	A 36 OR EQ.	1	XX
4	LEG - L65 x 65 x 6t x 13.4kg/m	A 36 OR EQ.	2	102.9
5	BRACING - L65 x 65 x 6t x 13.4kg/m	A 36 OR EQ.	2	41.1
6	CLEAT - 9t	A-283-C A36	4	68.7
7	BASE PLATE - 180 x 180 x 12t	A 36 OR EQ.	4	68.7
8	FLOOR GRATING - 1830 x 1757 x 25t	A 36 OR EQ.	4	94.9
	TOTAL			881.2

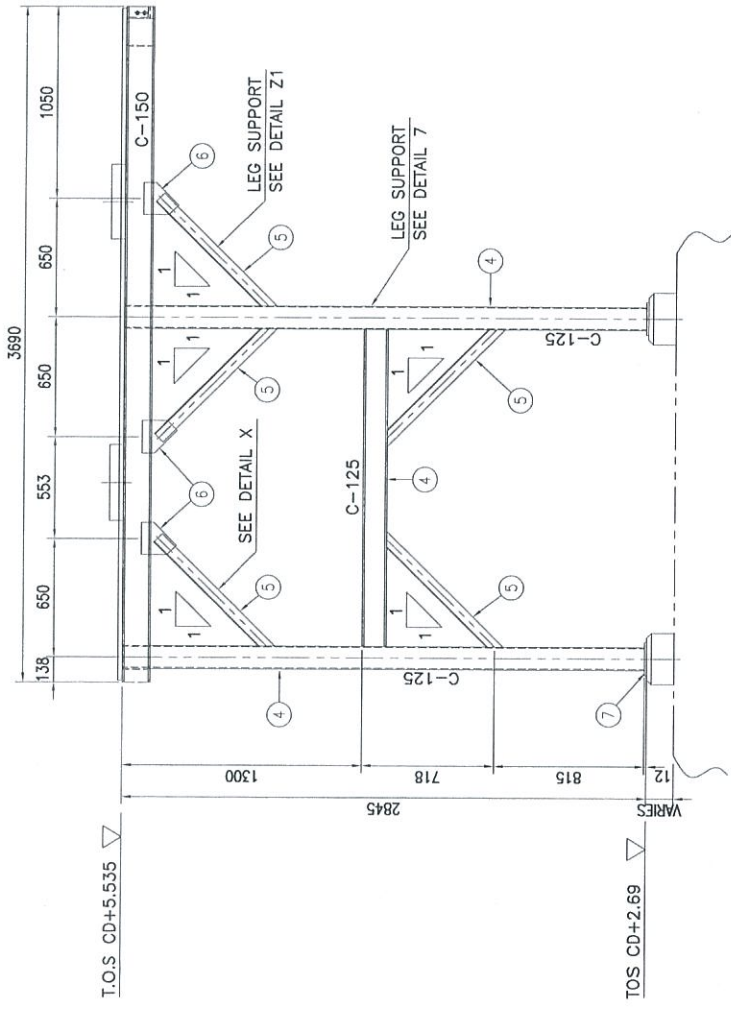
NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS D1.1.
 3. CUT TO SUIT



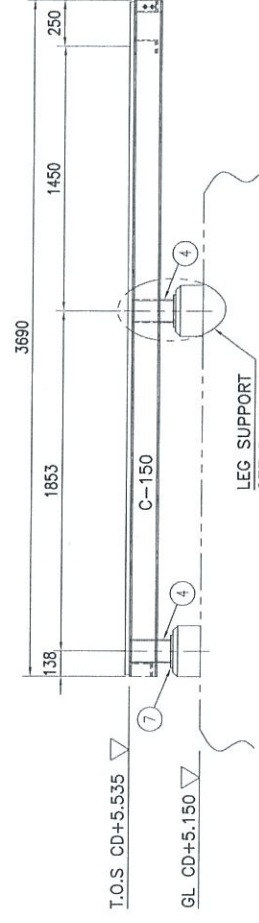
PLAN
PLATFORM FRAME (WITH COLUMN)
FOR PUMP AREA
 SCALE 1:20



SECTION "A" - "A"
 SCALE 1:20



SECTION "B" - "B"
 SCALE 1:20



SECTION "C" - "C"
 SCALE 1:20

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 16-LPS-301P/WWP	1
TOTAL REQ'D	= 1

PROJECT TITLE :
 INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

PROJECT OWNER :
 DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
 DIALOG E & C SDN. BHD. (18899-0)
 109, BLOK G, PHASE DANANGSARI 1,
 NO. 1, JALAN 16/11, 43300 PEJANG JAYA, SELANGOR.

DRAWING TITLE :
 LPS-301
 WALKWAY PLATFORM WITH COLUMN
 (TYPE-16)

SCALE : AS SHOWN
 DRAWN : PAN
 DATE : 16/03/13
 DWG. NO. : DH0009-ENG-C-PF-0217

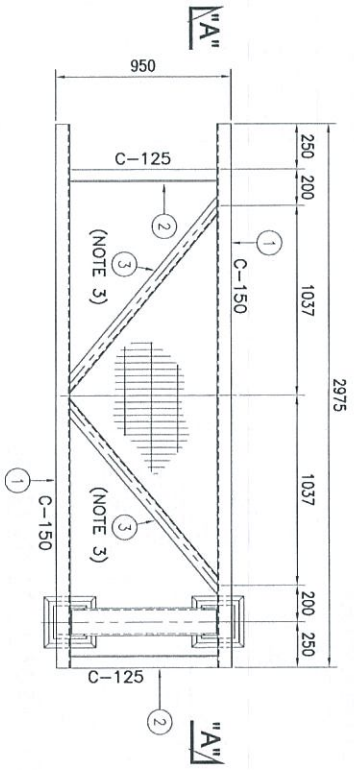
ISSUED FOR APPROVAL :
 DESIGNED :
 CHECKED :
 DATE : 07/07/13

REFERENCE DRAWINGS :
 DIALOG-DE-PI-0-002, SFT. 1-7
 PIPING GENERAL ARRANGEMENT AT LPS-302
 DIALOG-DE-PI-001-001-001
 MASTER PLAN FOR PHASE-1

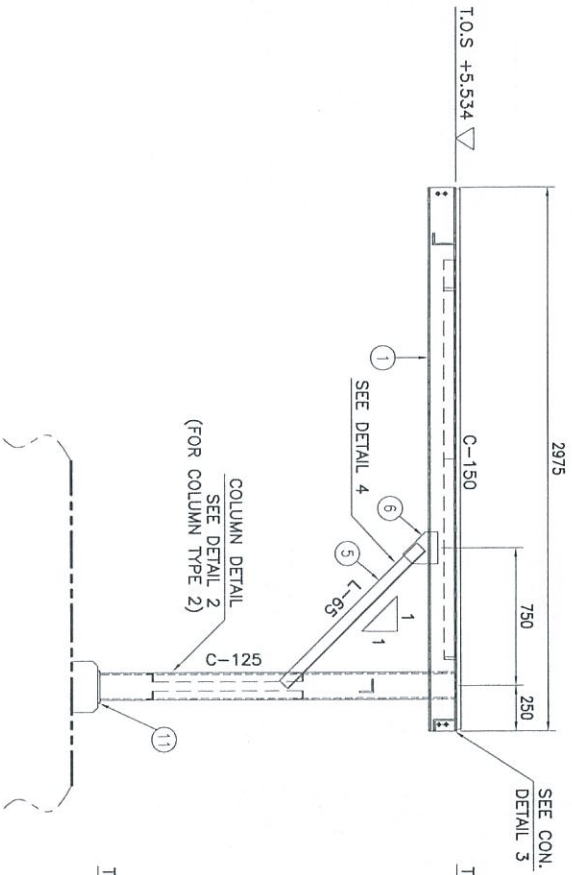
APPROVED :
 DATE : 16/03/13

REV. NO. : 0

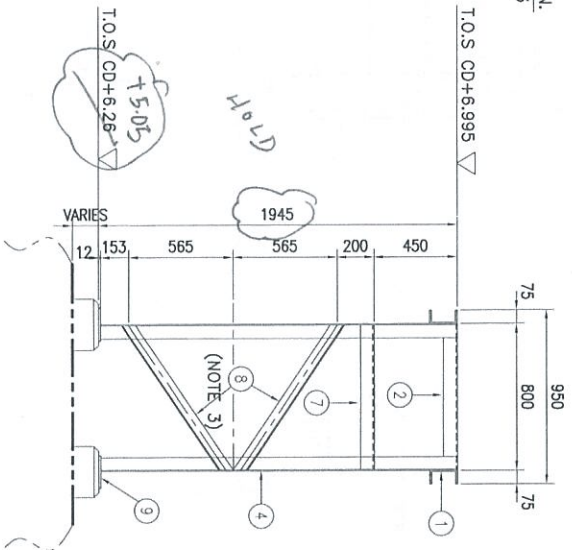
WALKWAY PLATFORM - (TYPE-16A)



PLAN
PLATFORM FRAME (WITH COLUMN)
FOR PUMP AREA
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG) (1 SET)
1	FRAME - C150 x 75 x 6.51 x 2975L	A 36 OR EQ.	2	110.8
2	FRAME - C125 x 65 x 61 x 800L	A 36 OR EQ.	2	21.4
3	BRACING #2 - 165 x 65 x 61	A 36 OR EQ.	5	11.1
4	LEG 1# - C125 x 65 x 61 x 1845L	A 36 OR EQ.	2	44.1
5	BRACING #2 - 165 x 65 x 61	A 36 OR EQ.	2	12.9
6	CLEAT - 91	A 36 OR EQ.	2	9.1
7	BRACING #3 - 165 x 65 x 61	A 36 OR EQ.	1	2.8
8	BRACING #4 - 165 x 65 x 61	A 36 OR EQ.	1	3.2
9	BASE PLATE - 180 x 180 x 12t	A 36 OR EQ.	2	12.32
10	FLOOR GRATING - 2955 x 930 x 25t	A 36 OR EQ.	1	81.07
TOTAL				382.7

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

WALKWAY PLATFORM (WITHOUT COLUMN)	
DESCRIPTION	QTY.
TYPE 16A-LPS-301P/WWP	1
TOTAL REQ'D = 1	

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (19838-0)
108, JALAN 6, PUSAT KOMERSIAL 1,
NO. 8, JALAN 19/11, 43000 PUNJANG, SELANGOR

DRAWING TITLE :
WALKWAY PLATFORM WITH COLUMN
(TYPE-16A)

SCALE : AS SHOWN
DRAWN : PAM
DATE : 18/03/13
DWC NO : DHO008-ENG-C-PC-0217

DESIGNED : ENX
APPROVED : LVM
FILENAME :
SHT. NO. : 2 OF 2
REV : 0

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

PROJECT NO. :
DRAWING NO. :
REV. NO. :
DATE :
BY :
CHK. :
DATE :

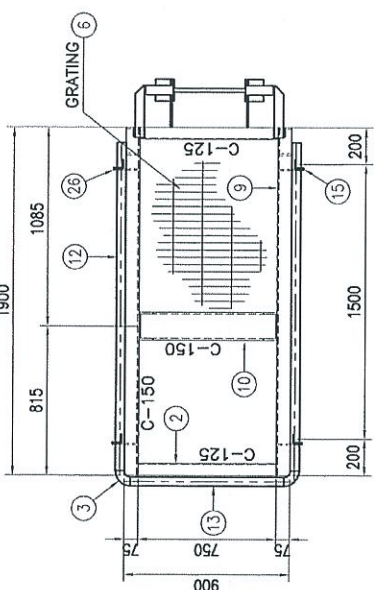
REFERENCE DRAWINGS

REVISIONS

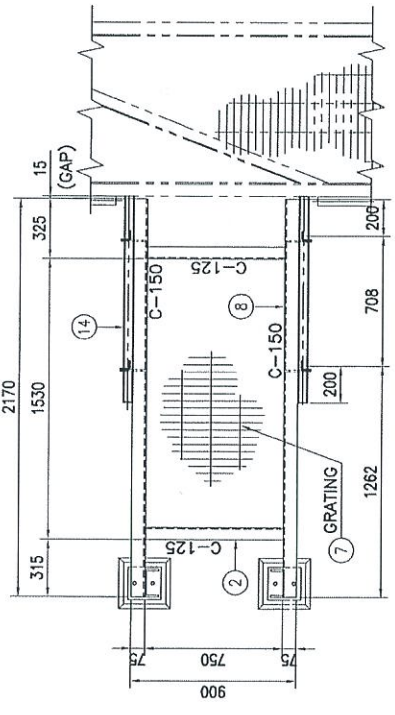
NO. :
DATE :
BY :
CHK. :
DATE :

NO. :
DATE :
BY :
CHK. :
DATE :

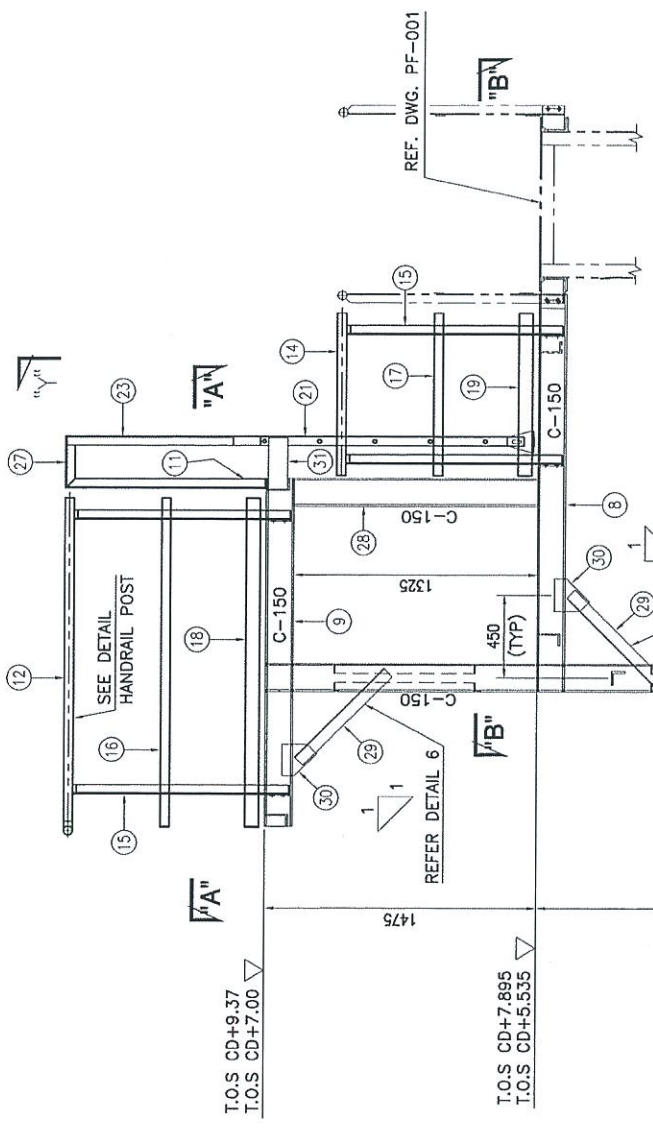
OPERATING PLATFORM - (TYPE-1)



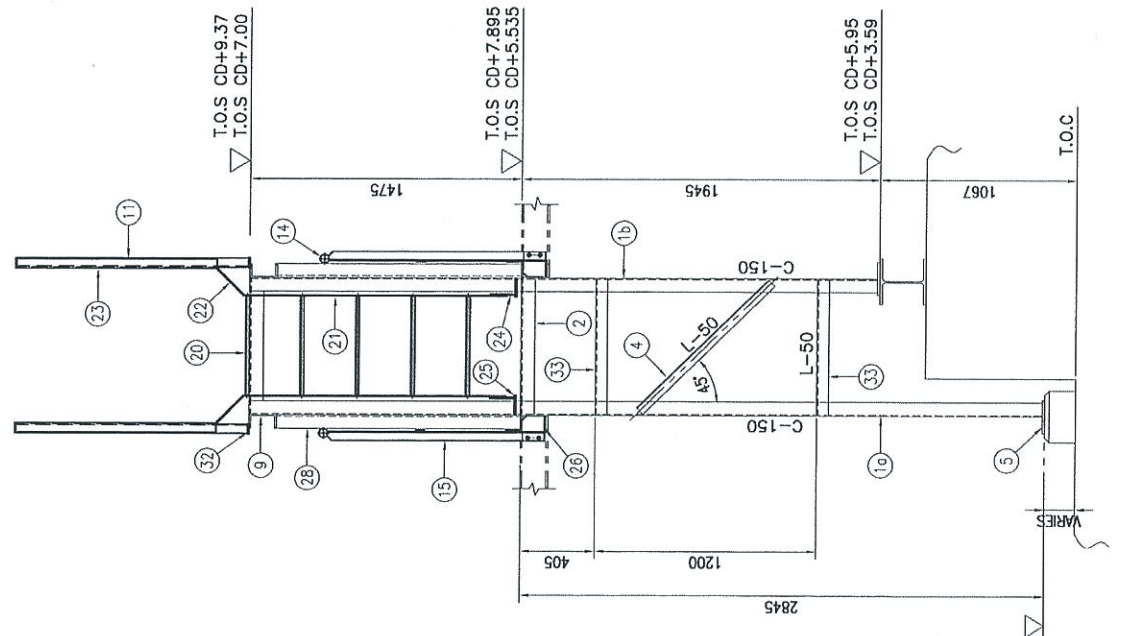
SECTION "A" - "A"
OPERATING PLATFORM AT T.O.S CD+7.00/T.O.S CD+9.37
SCALE 1:20



SECTION "B" - "B"
OPERATING PLATFORM AT T.O.S CD+5.535/T.O.S CD+7.895
SCALE 1:20



ELEVATION
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1a	LEG - C150 x 75 x 91 x 4308L	A 36 OR EQ.	1	103.4
1b	LEG - C150 x 75 x 91 x 3408L	A 36 OR EQ.	1	81.8
2	SUPPORT - C125 x 65 x 61 x 750L	A 36 OR EQ.	4	40.2
3	90° 3R ELBOW - Ø1½ x SCH 40	SGP	2	3.8
4	BRAACING - L50 x 50 x 61 x 990L	A 36 OR EQ.	4	17.5
5	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	6.1
6	FLOOR GRATING - 1880 x 880 x 25†	A 36 OR EQ.	1	48.8
7	FLOOR GRATING - 1575 x 880 x 25†	A 36 OR EQ.	1	40.9
8	FRAME - C150 x 75 x 6.51 x 2170L	A 36 OR EQ.	2	80.7
9	FRAME - C150 x 75 x 6.51 x 1900L	A 36 OR EQ.	2	70.7
10	FRAME - C150 x 75 x 6.51 x 750L	A 36 OR EQ.	1	14.0
11	STRINGER - L50 x 50 x 61 x 1085L	A 36 OR EQ.	2	9.6
12	HAND RAIL - Ø1½ x SCH 40 x 1795L	SGP	2	12.2
13	HAND RAIL - Ø1½ x SCH 40 x 835L	SGP	1	2.8
14	HAND RAIL - Ø1½ x SCH 40 x 1120L	SGP	2	7.6
15	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	8	41.7
16	MID RAIL - FB50 x 61 x 1798L	A 36 OR EQ.	2	8.4
17	MID RAIL - FB50 x 61 x 885L	A 36 OR EQ.	2	4.2
18	TOE PLATE - FB75 x 61 x 1798L	A 36 OR EQ.	2	12.7
19	TOE PLATE - FB75 x 61 x 885L	A 36 OR EQ.	2	6.3
20	RUNG - RB Ø19 x 554L	A 36 OR EQ.	5	6.2
21	STRINGER - FB50 x 81 x 1431L	A 36 OR EQ.	2	9.0
22	STRINGER - FB50 x 81 x 2111L	A 36 OR EQ.	2	1.3
23	STRINGER - L50 x 50 x 61 x 1092L	A 36 OR EQ.	2	9.7
24	CLEAT - 100 x 120 x 91	A 36 OR EQ.	2	1.7
25	CLEAT - 120 x 135 x 91	A 36 OR EQ.	2	2.3
26	CLEAT - 135 x 120 x 91	A 36 OR EQ.	8	9.0
27	STRINGER - L50 x 50 x 61 x 281L	A 36 OR EQ.	2	2.5
28	SUPPORT - C150 x 75 x 6.51 x 1325L	A 36 OR EQ.	2	49.3
29	SUPPORT - L65 x 65 x 61 x 685L	A 36 OR EQ.	4	16.2
30	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	4	9.5
31	CLEAT - 275 x 100 x 81	A 36 OR EQ.	2	3.5
32	PAD PLATE - 55 x 55 x 91	A 36 OR EQ.	2	0.4
33	BRAACING - L50 x 50 x 61 x 735L	A36 OR EQ.	2	6.6
TOTAL				740.6

OPERATING PLATFORM AT T.O.S CD+7.00/T.O.S CD+9.37
OPERATING PLATFORM AT T.O.S CD+5.535/T.O.S CD+7.895

PROJECT OWNER : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

CONSULTANT : DIALOG E & C SDN. BHD. (19191-4) 101, BLOCK C, 101, JALAN PANGLOSS, 43000 PANGLOSS, SELANGOR.

DRAWING TITLE : NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-1)

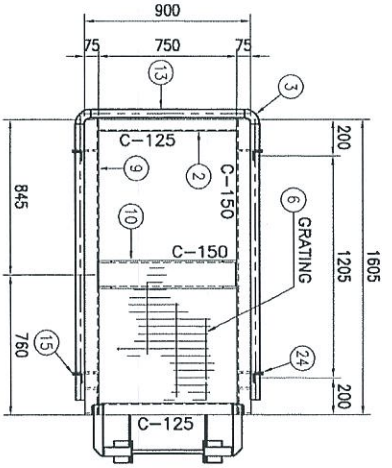
SCALE : AS SHOWN
CHECKED : ENKA
DESIGN : PAM
APPROVED : DM
DATE : 18/03/13
ELEVATION : -
REV. NO. : 1 OF 2
REV. : 0

DWG. NO. : DP0008-ENG-C-PF-0218

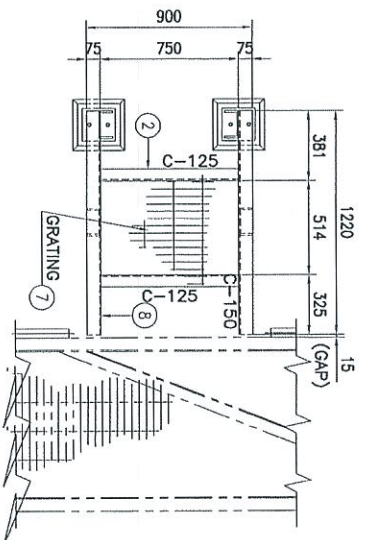
OPERATING PLATFORM	
DESCRIPTION	QTY.
TYPE 1-LPS-301S/NSOP	4
TYPE 1-LPS-301D/NSOP	1
TOTAL REQ'D = 5	

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

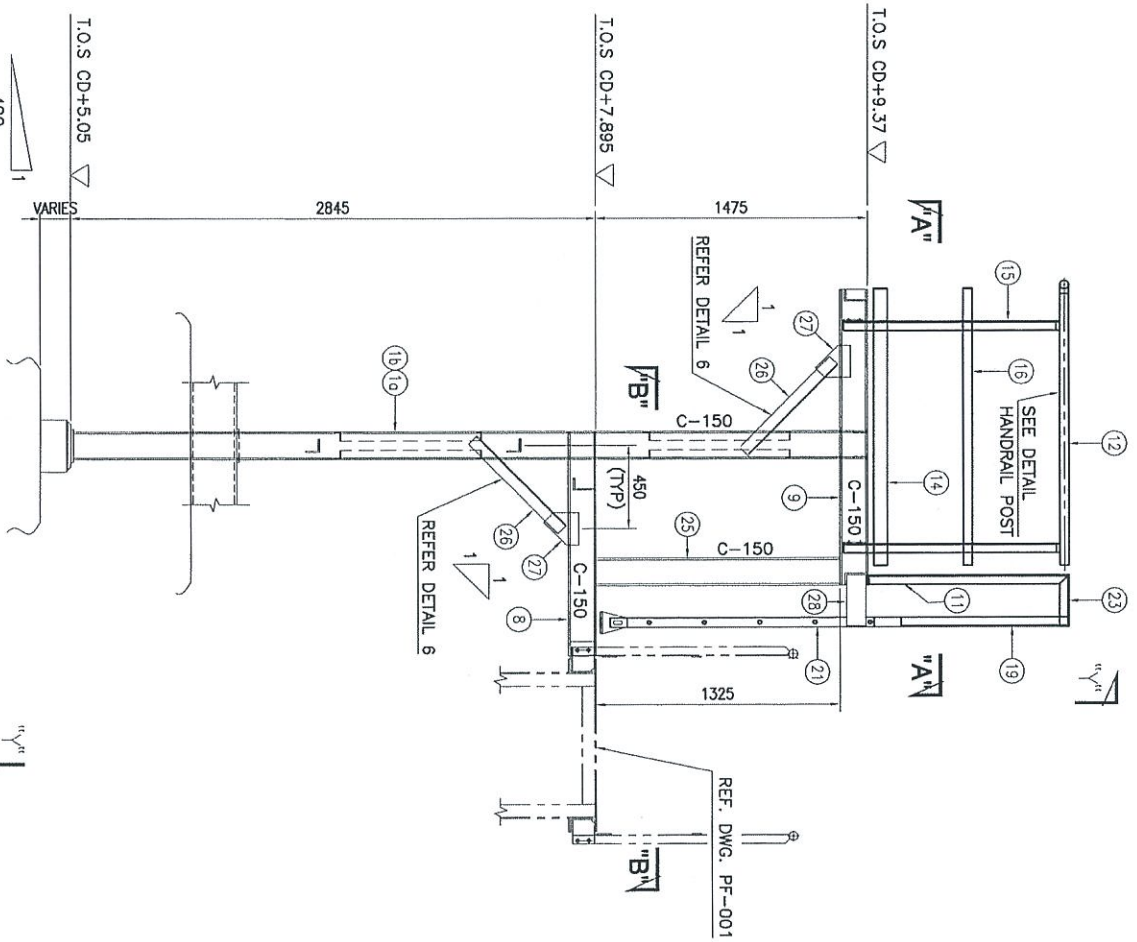
OPERATING PLATFORM - (TYPE-1A)



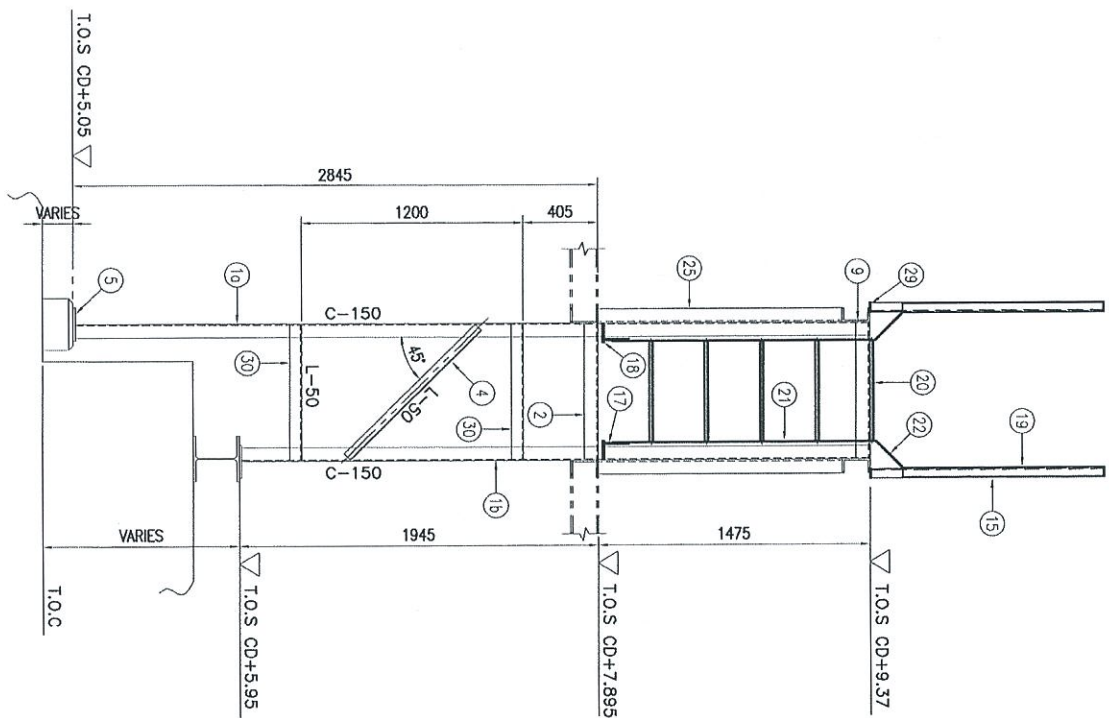
SECTION "A" - "A"
OPERATING PLATFORM AT T.O.S CD+9.37
SCALE 1:20



SECTION "B" - "B"
OPERATING PLATFORM AT T.O.S CD+7.895
SCALE 1:20



ELEVATION
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KGS)
1a	LEG - C150 x 75 x 91 x 4308L	A 36 OR EQ.	1	103.4
1b	LEG - C150 x 75 x 91 x 3408L	A 36 OR EQ.	1	81.8
2	SUPPORT - C125 x 65 x 61 x 750L	A 36 OR EQ.	4	40.2
3	90° SR ELBOW - Ø1½ x SCH 40	SGP	2	3.8
4	BRACING - L50 x 50 x 61 x 990L	A 36 OR EQ.	4	17.5
5	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	6.1
6	FLOOR GRATING - 1585 x 880 x 251	A 36 OR EQ.	1	41.1
7	FLOOR GRATING - 1200 x 880 x 251	A 36 OR EQ.	1	31.2
8	FRAME - C150 x 75 x 6.51 x 1220L	A 36 OR EQ.	2	45.4
9	FRAME - C150 x 75 x 6.51 x 1405L	A 36 OR EQ.	2	59.7
10	FRAME - C150 x 75 x 6.51 x 750L	A 36 OR EQ.	1	14.0
11	STRINGER - L50 x 50 x 61 x 1085L	A 36 OR EQ.	2	9.6
12	HAND RAIL - Ø1½ x SCH 40 x 1500L	SGP	2	10.2
13	HAND RAIL - Ø1½ x SCH 40 x 835L	SGP	1	2.8
14	TOE PLATE - FB75 x 61 x 1505L	A 36 OR EQ.	2	10.6
15	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	4	20.9
16	MID RAIL - FB50 x 61 x 1505L	A 36 OR EQ.	2	3.5
17	CLEAT - 100 x 120 x 91	A 36 OR EQ.	2	1.7
18	CLEAT - 120 x 135 x 91	A 36 OR EQ.	2	2.3
19	STRINGER - L50 x 50 x 61 x 1092L	A 36 OR EQ.	2	9.7
20	RUNG - RB Ø19 x 556L	A 36 OR EQ.	5	6.2
21	STRINGER - FB50 x 81 x 1431L	A 36 OR EQ.	2	9.0
22	STRINGER - FB50 x 81 x 211L	A 36 OR EQ.	2	1.3
23	STRINGER - L50 x 50 x 61 x 281L	A 36 OR EQ.	2	1.8
24	CLEAT - 135 x 120 x 91	A 36 OR EQ.	4	4.6
25	SUPPORT - C150 x 75 x 6.51 x 1329L	A 36 OR EQ.	2	49.3
26	SUPPORT - L55 x 55 x 61 x 685L	A 36 OR EQ.	4	16.2
27	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	4	9.5
28	CLEAT - 275 x 100 x 81	A 36 OR EQ.	2	3.5
29	PAD PLATE - 55 x 55 x 91	A 36 OR EQ.	2	0.4
30	BRACING - L50 x 50 x 61 x 735L	A 36 OR EQ.	2	6.6
TOTAL				623.9

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

OPERATING PLATFORM	QTY.
TYPE 1A-LPS-301D/NSOP	1
TOTAL REQ'D = 1	

PROJECT OWNER:
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT:
DIALOG E & C SDN. BHD. (18280-U)

PROJECT TITLE:
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

DRAWING TITLE:
NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-1A)

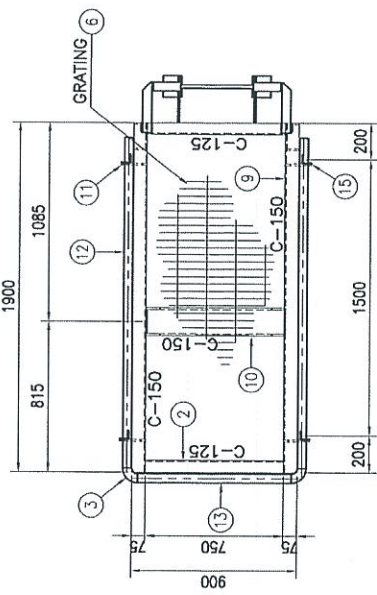
SCALE: AS SHOWN

DATE: 18/03/15

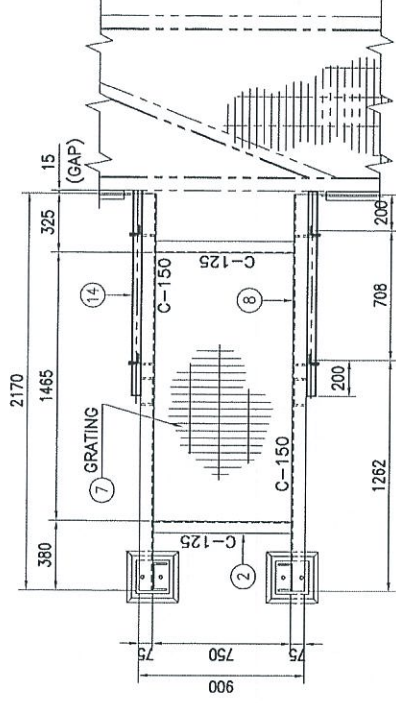
DRW. NO.: DH0008-ENK-C-PF-0218

REV. NO.: 2 OF 2

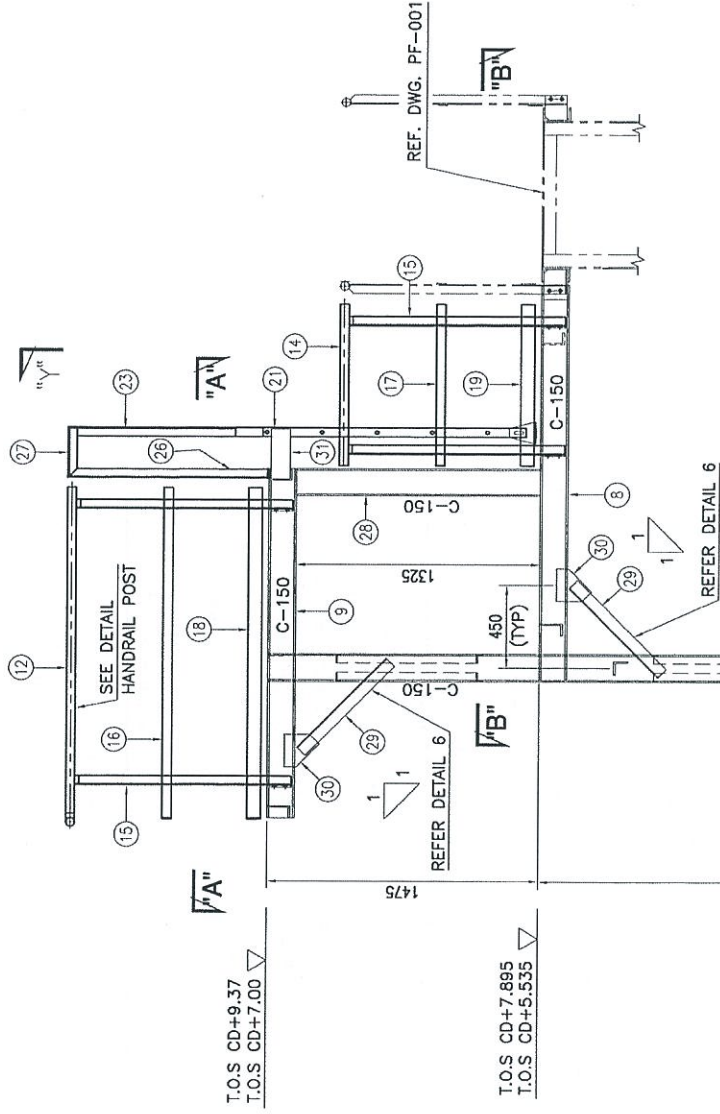
OPERATING PLATFORM - (TYPE-2)



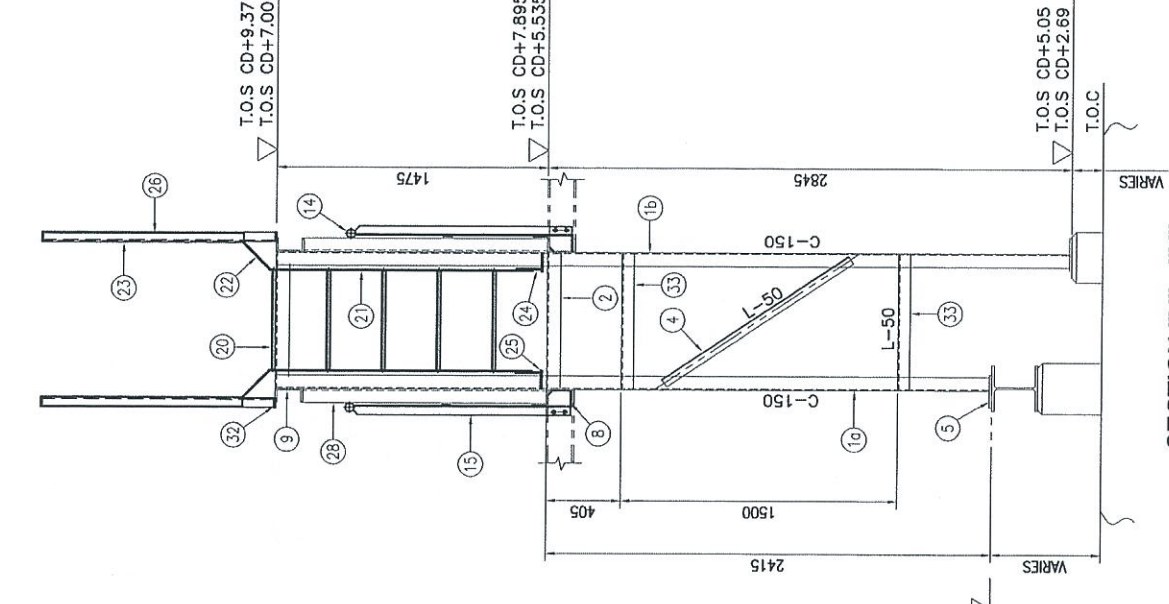
SECTION "A" - "A"
OPERATING PLATFORM AT T.O.S CD+7.00/T.O.S CD+9.37
SCALE 1:20



SECTION "B" - "B"
OPERATING PLATFORM AT T.O.S CD+5.535/T.O.S CD+7.895
SCALE 1:20



ELEVATION
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1a	LEG - C150 x 75 x 91 x 3878L	A 36 OR EQ.	1	93.1
1b	LEG - C150 x 75 x 91 x 4308L	A 36 OR EQ.	1	103.4
2	SUPPORT - C125 x 65 x 61 x 736L	A 36 OR EQ.	4	40.2
3	90° 3R ELBOW - Ø1½ x SCH 40	SGP	2	3.8
4	BRACING - L50 x 50 x 61 x 990L	A 36 OR EQ.	4	17.5
5	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	6.1
6	FLOOR GRATING - 1880 x 880 x 231	A 36 OR EQ.	1	48.8
7	FLOOR GRATING - 1575 x 880 x 231	A 36 OR EQ.	1	40.9
8	FRAME - C150 x 75 x 6.51 x 2170L	A 36 OR EQ.	2	80.7
9	FRAME - C150 x 75 x 6.51 x 1900L	A 36 OR EQ.	2	70.7
10	FRAME - C150 x 75 x 6.51 x 750L	A 36 OR EQ.	1	14.0
11	CLEAT - 135 x 120 x 91	A 36 OR EQ.	8	9.0
12	HAND RAIL - Ø1½ x SCH 40 x 1795L	SGP	2	12.2
13	HAND RAIL - Ø1½ x SCH 40 x 835L	SGP	1	2.8
14	HAND RAIL - Ø1½ x SCH 40 x 1120L	SGP	2	7.6
15	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	8	41.7
16	MID RAIL - FB50 x 61 x 1798L	A 36 OR EQ.	2	8.4
17	MID RAIL - FB50 x 61 x 885L	A 36 OR EQ.	2	4.2
18	TOE PLATE - FB75 x 61 x 1798L	A 36 OR EQ.	2	12.7
19	TOE PLATE - FB75 x 61 x 885L	A 36 OR EQ.	2	6.3
20	RUNG - RB Ø19 x 556L	A 36 OR EQ.	5	6.2
21	STRINGER - FB50 x 81 x 1431L	A 36 OR EQ.	2	9.0
22	STRINGER - FB50 x 81 x 2111L	A 36 OR EQ.	2	1.3
23	STRINGER - L50 x 50 x 61 x 1092L	A 36 OR EQ.	2	9.7
24	CLEAT - 100 x 120 x 91	A 36 OR EQ.	2	1.7
25	CLEAT - 120 x 135 x 91	A 36 OR EQ.	2	2.3
26	STRINGER - L50 x 50 x 61 x 1085L	A 36 OR EQ.	2	6.8
27	STRINGER - L50 x 50 x 61 x 281L	A 36 OR EQ.	2	2.5
28	SUPPORT - C150 x 75 x 6.51 x 1325L	A 36 OR EQ.	2	49.3
29	SUPPORT - L65 x 65 x 61 x 685L	A 36 OR EQ.	4	16.2
30	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	4	9.5
31	CLEAT - 275 x 100 x 81	A 36 OR EQ.	2	3.5
32	PAD PLATE - 55 x 55 x 91	A 36 OR EQ.	2	0.4
33	BRACING - L50 x 50 x 61 x 735L	A 36 OR EQ.	2	6.6
TOTAL				749.1

OPERATING PLATFORM	
DESCRIPTION	QTY.
TYPE 2-LPS-301S/SSOP	4
TYPE 2-LPS-301D/SSOP	1
TOTAL REQ'D = 5	

PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.
CONSULTANT : DIALOG E & C SDN. BHD. (181918-4)
DRAWING TITLE : NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-2)
SCALE : AS SHOWN
CHECKED : EBM
DRAWN : PMH
APPROVED : DM
DATE : 18/03/15
FILENAME : -
DWG. NO. : DHO008-ENG-C-PF-0219
SHT. NO. REV. : 1 OF 4 0

ISSUED FOR APPROVAL : 18/03/15
ISSUED FOR COMMENTS : 18/03/15

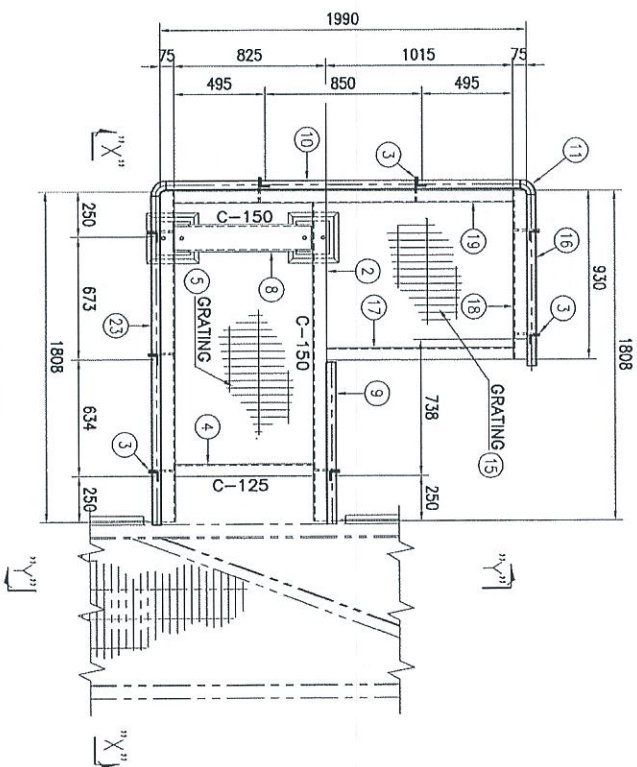
PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

REFERENCE DRAWINGS :
DHO08-004-01-001, SHE. 1-7
DHO08-004-01-001-001, SHE. 1-7
DHO08-004-01-001-001, SHE. 1-7
DHO08-004-01-001-001, SHE. 1-7

REVISIONS:
NO. DESCRIPTION BY CHK APPR. DATE

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

OPERATING PLATFORM - (TYPE 2A)

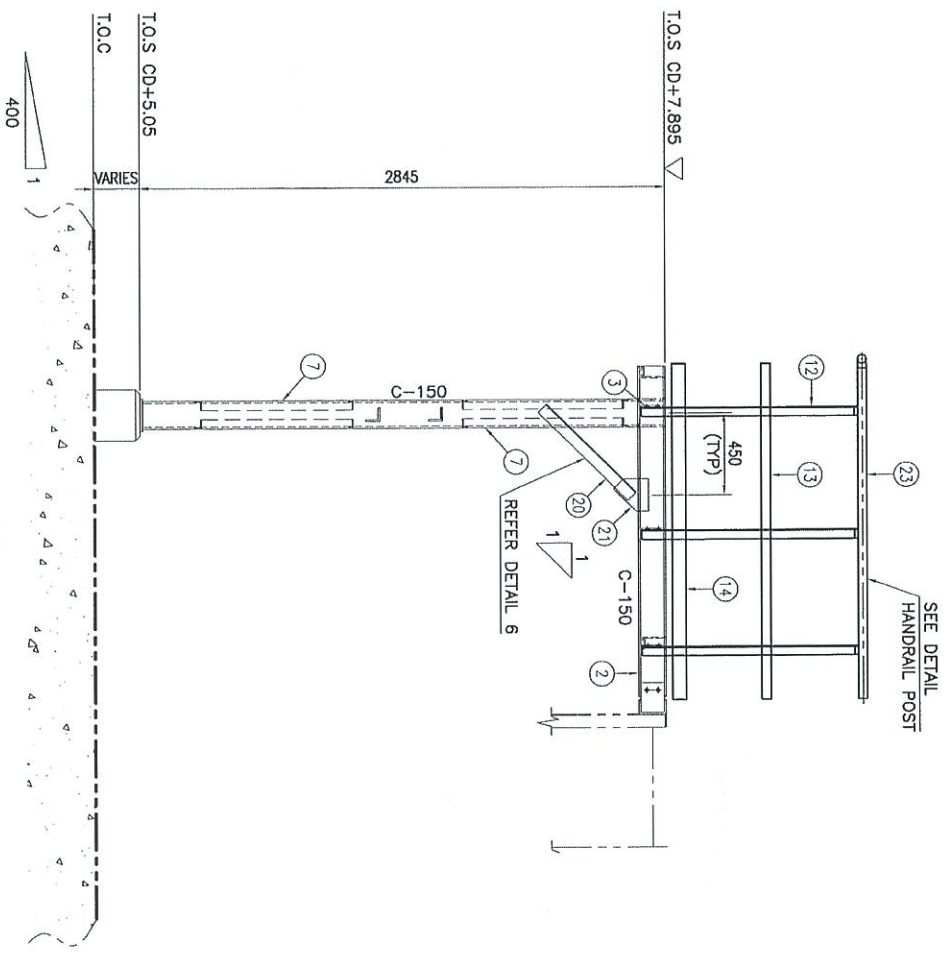


PLAN VIEW
OPERATING PLATFORM AT T.O.S CD + 7.895
SCALE 1:20

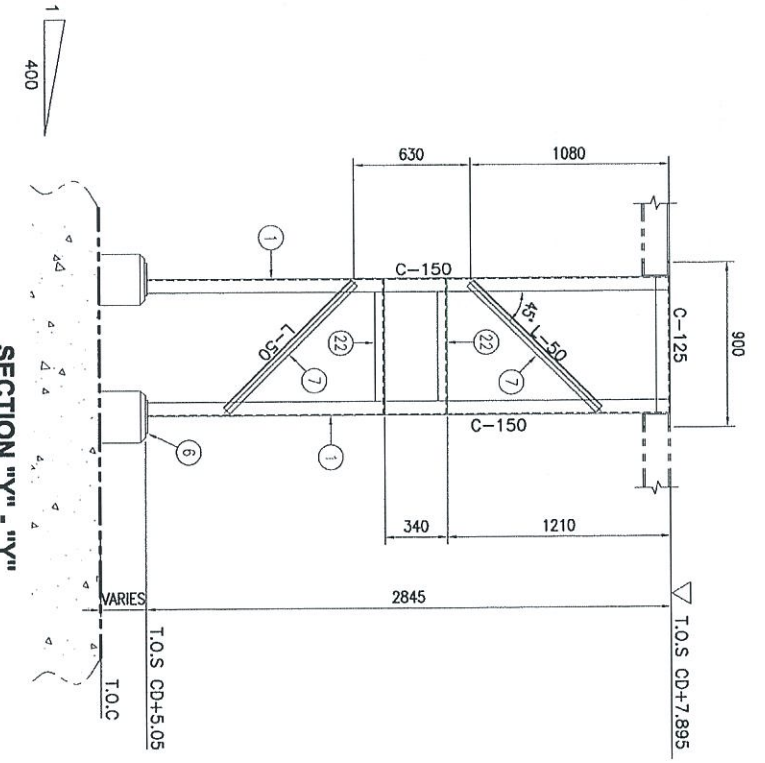
DESCRIPTION	QTY.
OPERATING PLATFORM	
TYPE 2A-LPS-301D/SSOP	1
TOTAL REQ'D =	1

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	LEG - C150 x 75 x 91 x 2839L	A36 OR EQ.	2	136.0
2	FRAME - C150 x 75 x 6.51 x 1809L	A36 OR EQ.	2	67.3
3	CLEAT - 135 x 120 x 91	A36 OR EQ.	8	9.2
4	FRAME - C125 x 65 x 61 x 750L	A36 OR EQ.	1	10.1
5	FLOOR GRATING - 880 x 1788L x 25I	A36 OR EQ.	1	46.4
6	BASE PLATE - 180 x 180 x 12I	A36 OR EQ.	2	6.1
7	BRACING - L50 x 50 x 61 x 990L	A36 OR EQ.	4	17.5
8	SUPPORT - C150 x 75 x 6.51 x 750L	A36 OR EQ.	1	14.0
9	HAND RAIL - Ø1½ x SCH 40 x 882L	SGP	1	3.0
10	HAND RAIL - Ø1½ x SCH 40 x 1925L	SGP	1	6.5
11	90° SR ELBOW - Ø1½ x SCH 40	SGP	2	3.8
12	STANCHION - L50 x 50 x 61 x 1176L	A36 OR EQ.	6	31.3
13	MID RAIL - F850 x 61 x 1831L	A36 OR EQ.	2	8.6
14	TOE PLATE - F875 x 61 x 1831L	A36 OR EQ.	2	12.9
15	FLOOR GRATING - 920 x 1070L x 25I	A36 OR EQ.	1	29.0
16	HAND RAIL - Ø1½ x SCH 40 x 940L	SGP	1	3.2
17	FRAME - C125 x 65 x 61 x 1015L	A36 OR EQ.	1	13.6
18	FRAME - C150 x 75 x 6.51 x 930L	A36 OR EQ.	1	17.3
19	FRAME - C125 x 65 x 61 x 1840L	A36 OR EQ.	1	24.7
20	SUPPORT - L65 x 65 x 61 x 685L	A36 OR EQ.	2	8.1
21	GUSSET PLATE - 177 x 189 x 9I	A36 OR EQ.	2	4.8
22	BRACING - L50 x 50 x 61 x 735L	A36 OR EQ.	2	6.5
23	HAND RAIL - Ø1½ x SCH 40 x 1800L	SGP	1	6.1
TOTAL				486.0

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.



VIEW "X"-"X"
SCALE 1:20



SECTION "Y"-"Y"
SCALE 1:20

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (133313-0)

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

DATE : 18/03/15

SCALE : AS SHOWN

DRWING NO. : DHP0008-EN-C-PT-0219

REV. NO. : 2

DATE : 18/03/15

BY : [Signature]

CHECKED : [Signature]

APPROVED : [Signature]

DATE : 18/03/15

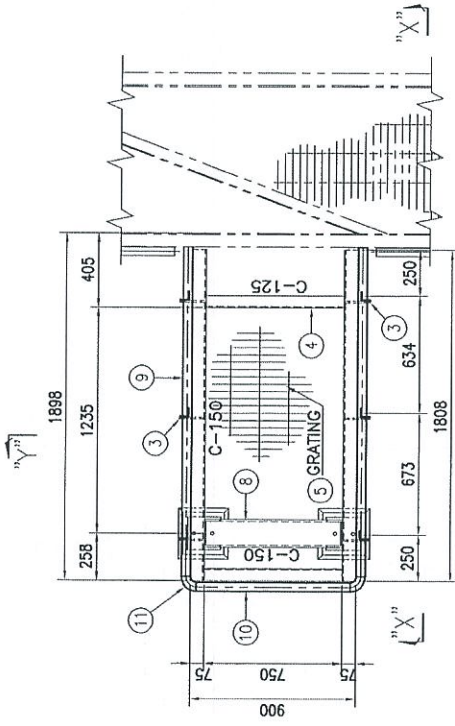
SCALE : AS SHOWN

DRWING NO. : DHP0008-EN-C-PT-0219

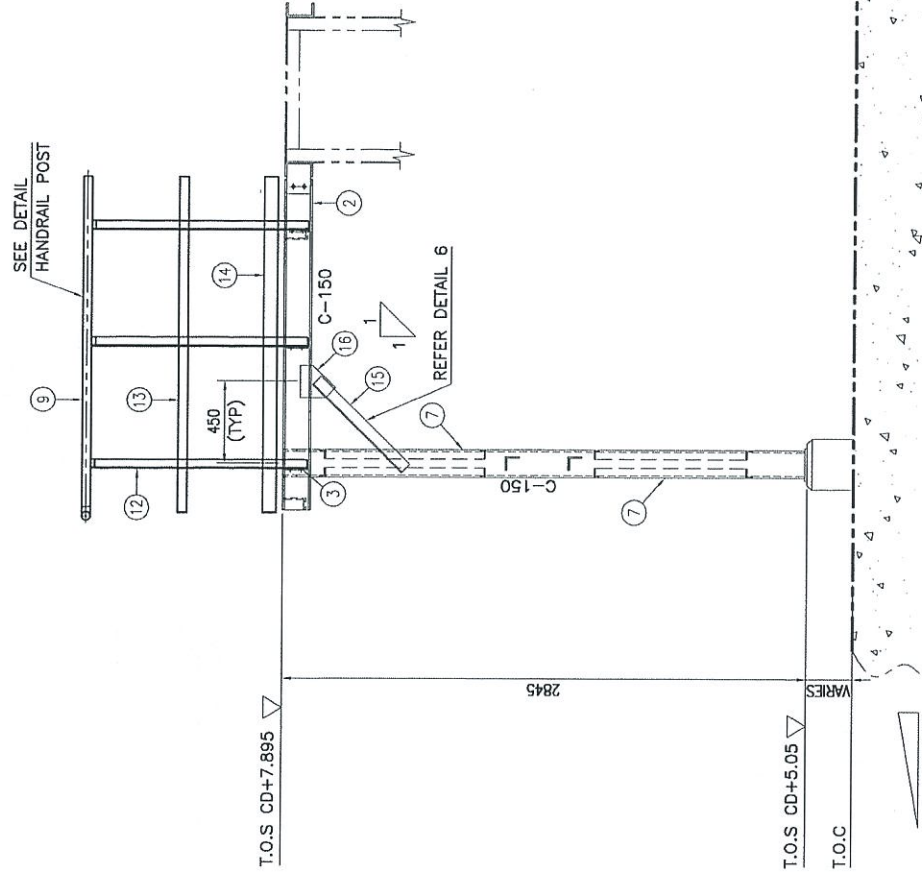
REV. NO. : 2

DATE : 18/03/15

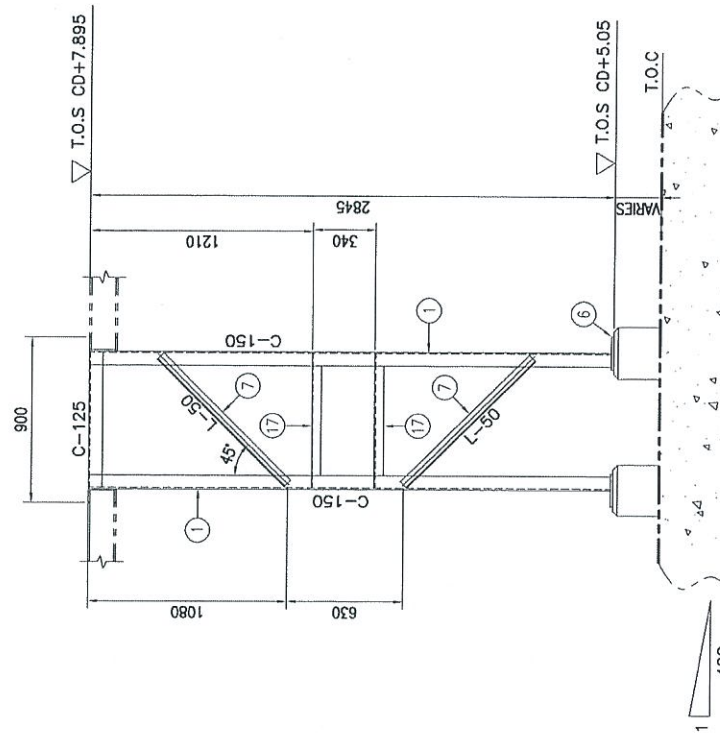
OPERATING PLATFORM - (TYPE-2B)



PLAN VIEW
OPERATING PLATFORM AT T.O.S CD + 7.895
SCALE 1:20



VIEW "X"-"X"
SCALE 1:20



SECTION "Y"-"Y"
SCALE 1:20

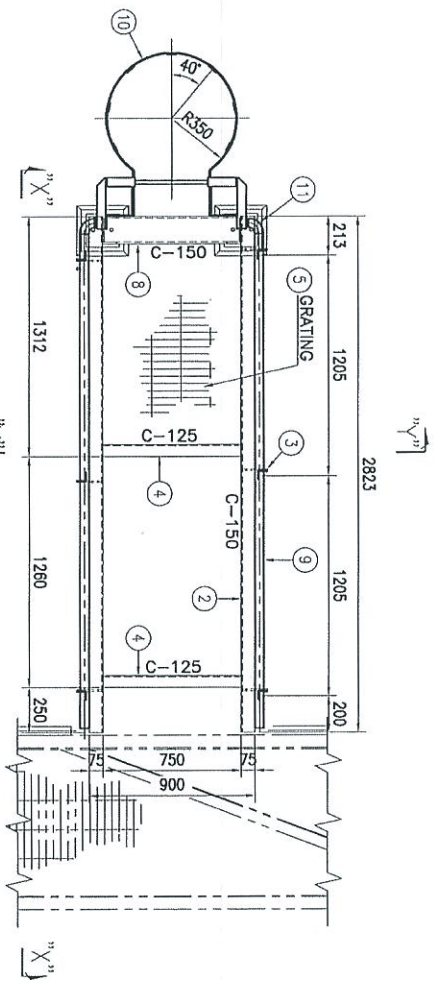
OPERATING PLATFORM	
DESCRIPTION	QTY.
TYPE 2B-LPS-301D/SSOP	6
TOTAL REQ'D = 6	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	LEG - C150 x 75 x 91 x 2833L	A36 OR EQ.	2	136.0
2	FRAME - C150 x 75 x 6.51 x 1808L	A36 OR EQ.	2	67.3
3	CLEAT - 135 x 120 x 91	A36 OR EQ.	6	6.9
4	FRAME - C125 x 65 x 61 x 750L	A36 OR EQ.	2	20.1
5	FLOOR GRATING - 880 x 1788L x 251	A36 OR EQ.	1	46.4
6	BASE PLATE - 180 x 180 x 121	A36 OR EQ.	2	6.1
7	BRACING - L50 x 50 x 61 x 990L	A36 OR EQ.	4	17.5
8	SUPPORT - C150 x 75 x 6.51 x 750L	A36 OR EQ.	1	14.0
9	HAND RAIL - Ø1½ x SCH 40 x 1800L	SGP	2	12.2
10	HAND RAIL - Ø1½ x SCH 40 x 836L	SGP	1	2.8
11	90° SR ELBOW - Ø1½ x SCH 40	SGP	2	3.8
12	STANCHION - L50 x 50 x 61 x 1176L	A36 OR EQ.	6	31.3
13	MID RAIL - FB50 x 61 x 1831L	A36 OR EQ.	2	8.6
14	TOE PLATE - FB75 x 61 x 1831L	A36 OR EQ.	2	12.9
15	SUPPORT - L65 x 65 x 61 x 685L	A36 OR EQ.	2	8.1
16	GUSSET PLATE - 177 x 189 x 91	A36 OR EQ.	2	4.8
17	BRACING - L50 x 50 x 61 x 735L	A36 OR EQ.	2	6.5
TOTAL				405.3

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS D11.1.

PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG	
PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.	
CONSULTANT : DIALOG E & C SDN. BHD. (101890-0) 101, BLOK G, PRATO DAMANSARA 1, NO. 3, JALAN 16/11, 43350 PETALING JAYA, SELANGOR.	
DRAWING TITLE : LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-2B)	
SCALE : AS SHOWN	CHECKED : ERNA
DRAWN : RAN	APPROVED : LHM
DATE : 18/02/13	FILENAME : -
DWG. NO : DH0008-ENG-C-PF-0219	SHT. NO : 3 OF 4
	REV. : 0

OPERATING PLATFORM - (TYPE-2C)

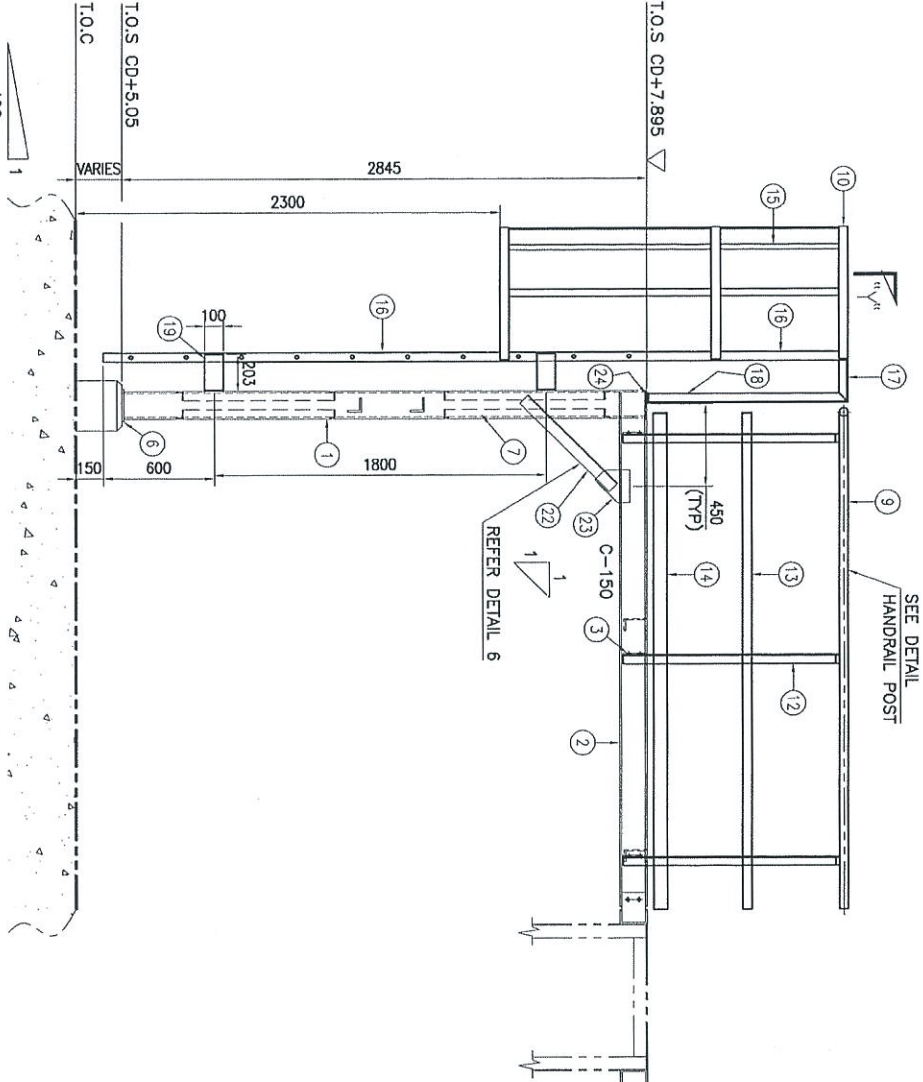


OPERATING PLATFORM AT T.O.S CD + 7.895
SCALE 1:20

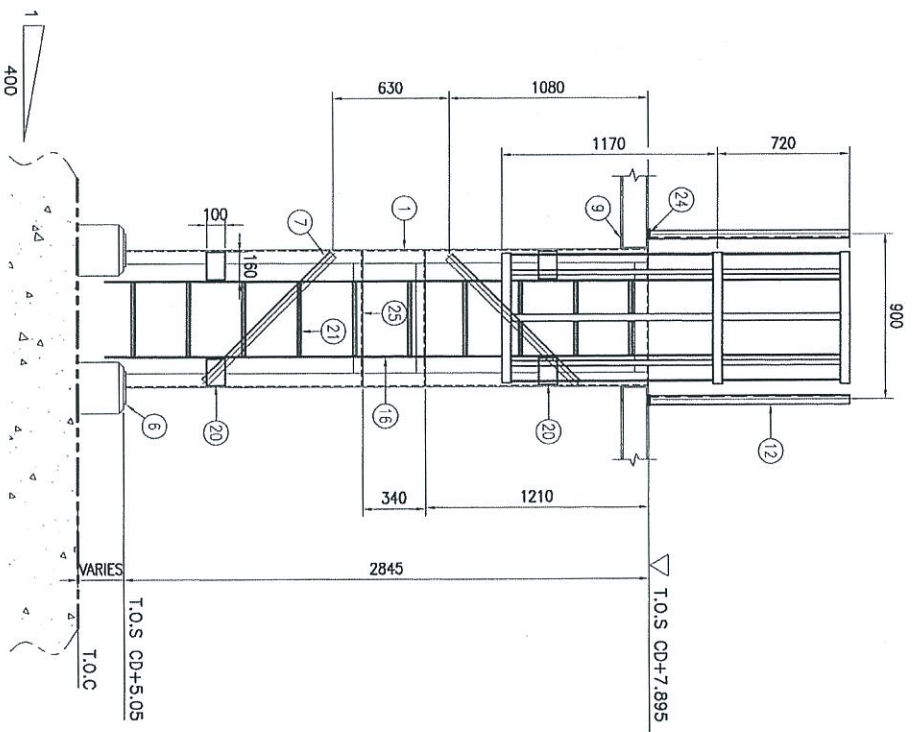
OPERATING PLATFORM	
DESCRIPTION	QTY.
TYPE 2C-LPS-301D/SSOP	1
TOTAL REQ'D =	1

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)			
NO.	DESCRIPTION	MATERIAL	TOTAL WEIGHT (KGS. (1 SET))
1	LEG - C150x 75 x 91 x 2833L	A 36 OR EQ.	136.0
2	FRAME - C150 x 75 x 6.51 x 1808L	A 36 OR EQ.	67.3
3	CLEAT - 135 x 120 x 91	A 36 OR EQ.	6.9
4	FRAME - C125 x 65 x 61 x 750L	A 36 OR EQ.	20.1
5	FLOOR GRATING - 990 x 1788L x 25I	A 36 OR EQ.	46.4
6	BASE PLATE - 180 x 180 x 12I	A 36 OR EQ.	6.1
7	BRACING - L50 x 50 x 61 x 970L	A 36 OR EQ.	17.5
8	FRAME - C150 x 75 x 6.51 x 750L	A 36 OR EQ.	14.0
9	HAND RAIL - Ø1 1/2 x SCH 40 x 1800L	SGP	12.2
10	CAGE - HOPE FB50 x 61 x 1920L	A 36 OR EQ.	13.6
11	90° SR ELBOW - Ø1 1/2 x SCH 40	SGP	3.8
12	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	31.3
13	MID RAIL - FB50 x 61 x 1831L	A 36 OR EQ.	8.6
14	TOE PLATE - FB75 x 61 x 1831L	A 36 OR EQ.	12.9
15	CAGE - FB50 x 61 x 1890L	A 36 OR EQ.	31.2
16	STRINGER - FB50 x 81 x 4040L	A 36 OR EQ.	25.4
17	STRINGER - L50 x 50 x 61 x 281L	A 36 OR EQ.	2.5
18	STRINGER - L50 x 50 x 61 x 1085L	A 36 OR EQ.	9.6
19	CLEAT - 203 x 100 x 91	A 36 OR EQ.	5.7
20	CLEAT - 154 x 100 x 91	A 36 OR EQ.	4.4
21	RUNG - R8 Ø19 x 416L	A 36 OR EQ.	9.3
22	SUPPORT - L65 x 65 x 61 x 685L	A 36 OR EQ.	8.1
23	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	4.8
24	PAD PLATE - 55 x 55 x 91	A 36 OR EQ.	0.4
25	BRACING - L80 x 50 x 61 x 735L	A 36 OR EQ.	6.5
TOTAL			504.6

NOTE:
1. ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.



VIEW "X" - "X"
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (188299-U)
100, BLOK D, PULAU DABONGKAN 1, JAYA, 50450 KUALA LUMPUR

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

DRAWING TITLE :
LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-2C)

SCALE : AS SHOWN

DATE : 18/03/13

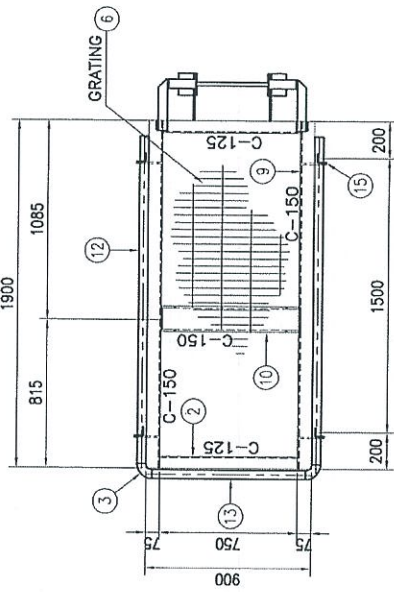
FILE NAME : -

DWG. NO. : DH0008-ENG-C-PF-0219

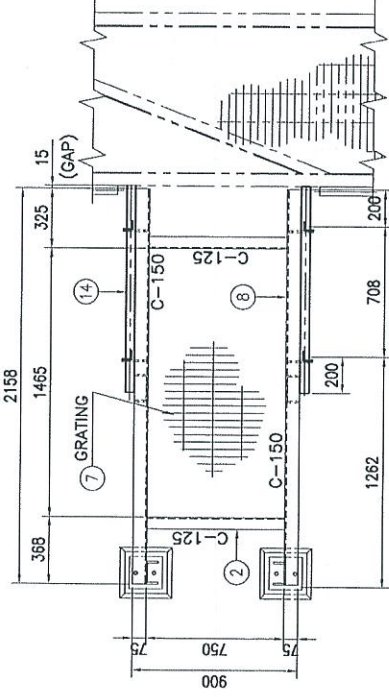
DESIGNED BY	CHKD BY	DATE
DRAWN BY	CHKD BY	DATE
CHECKED BY	DATE	
APPROVED BY	DATE	

4 OF 4

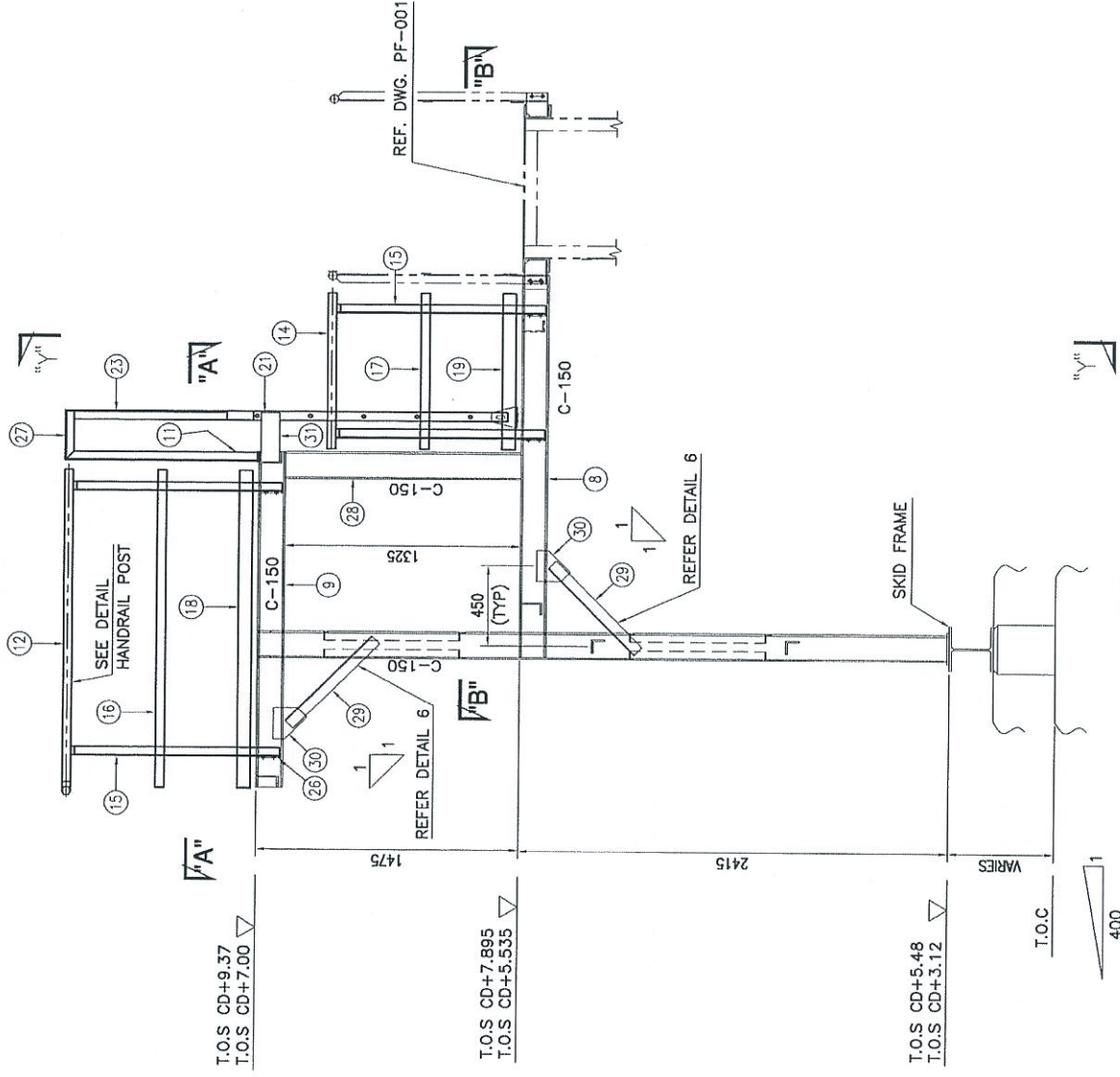
OPERATING PLATFORM - (TYPE-3)



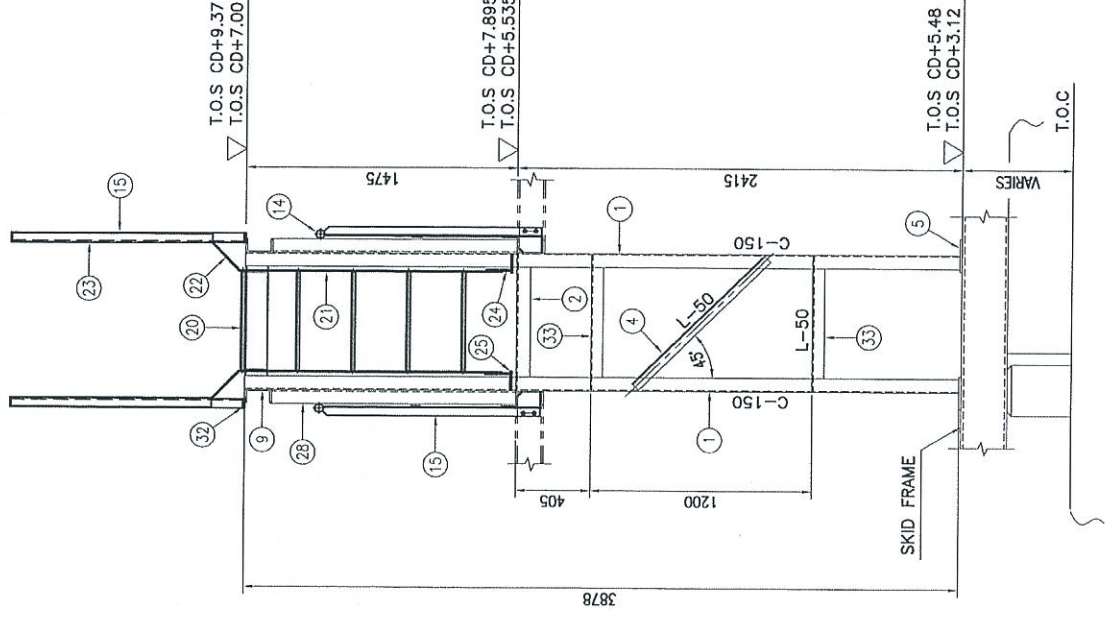
SECTION "A" - "A"
OPERATING PLATFORM AT T.O.S CD+7.00/T.O.S CD+9.37
SCALE 1:20



SECTION "B" - "B"
OPERATING PLATFORM AT T.O.S CD+5.535/T.O.S CD+7.895
SCALE 1:20



ELEVATION
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. 1 SET)
1	LEG - C150 x 75 x 91 x 3878L	A 36 OR EQ.	2	186.1
2	SUPPORT - C125 x 65 x 61 x 750L	A 36 OR EQ.	4	40.2
3	90° SR ELBOW - Ø1 1/2 x SCH 40	SGP	2	3.8
4	BRACING - L50 x 50 x 61 x 990L	A 36 OR EQ.	4	17.5
5	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	6.1
6	FLOOR GRATING - 1880 x 880 x 25I	A 36 OR EQ.	1	48.8
7	FLOOR GRATING - 1575 x 880 x 25I	A 36 OR EQ.	1	40.9
8	FRAME - C150 x 75 x 6.51 x 2158L	A 36 OR EQ.	2	80.3
9	FRAME - C150 x 75 x 6.51 x 1900L	A 36 OR EQ.	2	70.7
10	FRAME - C150 x 75 x 6.51 x 750L	A 36 OR EQ.	1	14.0
11	STRINGER - L50 x 50 x 61 x 1085L	A 36 OR EQ.	2	9.6
12	HAND RAIL - Ø1 1/2 x SCH 40 x 1793L	SGP	2	12.2
13	HAND RAIL - Ø1 1/2 x SCH 40 x 835L	SGP	1	2.8
14	HAND RAIL - Ø1 1/2 x SCH 40 x 1120L	SGP	2	7.6
15	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	8	41.7
16	MID RAIL - FB50 x 61 x 1798L	A 36 OR EQ.	2	8.4
17	MID RAIL - FB50 x 61 x 885L	A 36 OR EQ.	2	4.2
18	TOE PLATE - FB75 x 61 x 1798L	A 36 OR EQ.	2	12.7
19	TOE PLATE - FB75 x 61 x 885L	A 36 OR EQ.	2	6.3
20	RUNG - RB Ø19 x 556L	A 36 OR EQ.	5	6.2
21	STRINGER - FB50 x 81 x 1431L	A 36 OR EQ.	2	9.0
22	STRINGER - FB50 x 81 x 211L	A 36 OR EQ.	2	1.3
23	STRINGER - L50 x 50 x 61 x 1092L	A 36 OR EQ.	2	9.7
24	CLEAT - 100 x 120 x 91	A 36 OR EQ.	2	1.7
25	CLEAT - 120 x 135 x 91	A 36 OR EQ.	2	2.3
26	CLEAT - 135 x 120 x 91	A 36 OR EQ.	8	9.0
27	STRINGER - L50 x 50 x 61 x 281L	A 36 OR EQ.	2	2.5
28	SUPPORT - C150 x 75 x 6.51 x 1325L	A 36 OR EQ.	2	49.3
29	SUPPORT - L65 x 65 x 61 x 685L	A 36 OR EQ.	4	16.2
30	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	4	9.5
31	CLEAT - 275 x 100 x 81	A 36 OR EQ.	2	3.5
32	PAD PLATE - 55 x 55 x 91	A 36 OR EQ.	2	0.4
33	BRACING - L50 x 50 x 61 x 735L	A36 OR EQ.	2	6.6
TOTAL				741.1

OPERATING PLATFORM	QTY.
TYPE 3-LPS-301S/NSOP	22
TYPE 3-LPS-301S/SSOP	22
TYPE 3-LPS-301D/NSOP	2
TYPE 3-LPS-301D/SSOP	3
TOTAL REQ'D = 49	

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (18380-0)
108, BLOK G, PRIGED DAMANSARA 1,
NO. 9, JALAN 16/11, 43300 PENJANG, SELANGOR.

DRAWING TITLE :
LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-3)

SCALE : AS SHOWN
DRAWN : PAN
APPROVED : ENVA
DATE : 18/05/13
FILE NAME : -
DWG. NO. : **DH0008-ENG-C-PF-0220**

PROJECT NO. :
PROJECT DATE :
PROJECT DESCRIPTION :
PROJECT LOCATION :
PROJECT STATUS :
PROJECT MANAGER :
PROJECT ENGINEER :
PROJECT CHECKER :
PROJECT APPROVER :
PROJECT DATE :
PROJECT LOCATION :
PROJECT STATUS :

REVISIONS:

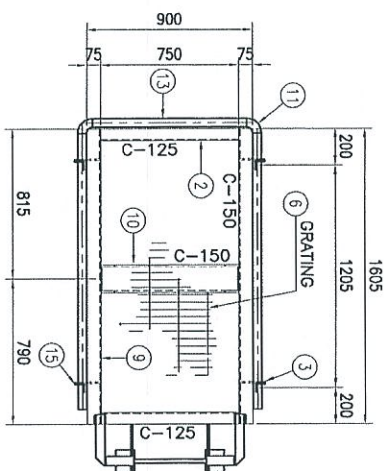
NO.	DESCRIPTION	BY	CHK	APPR.	DATE
1	ISSUED FOR APPROVAL	ENVA	ENVA	ENVA	18/05/13
2	ISSUED FOR COMMENTS	ENVA	ENVA	ENVA	18/05/13
3	ISSUED FOR COMMENTS	ENVA	ENVA	ENVA	18/05/13

REFERENCE DRAWINGS:

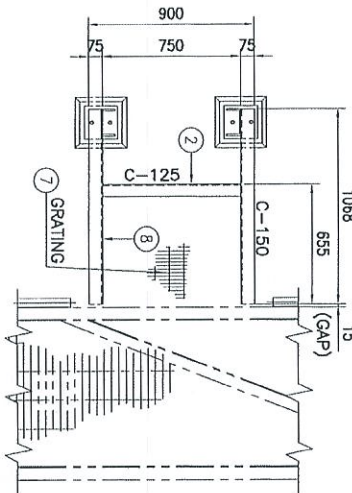
DWG. NO.	TITLE
PH000-300-PF-01-0201, SR1, 1-7	PPH00 CASUAL ARRANGEMENT AT LPS-301
PH000-300-PF-01-0201-Rev2	MASTER PLAN FOR PHAS-1

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

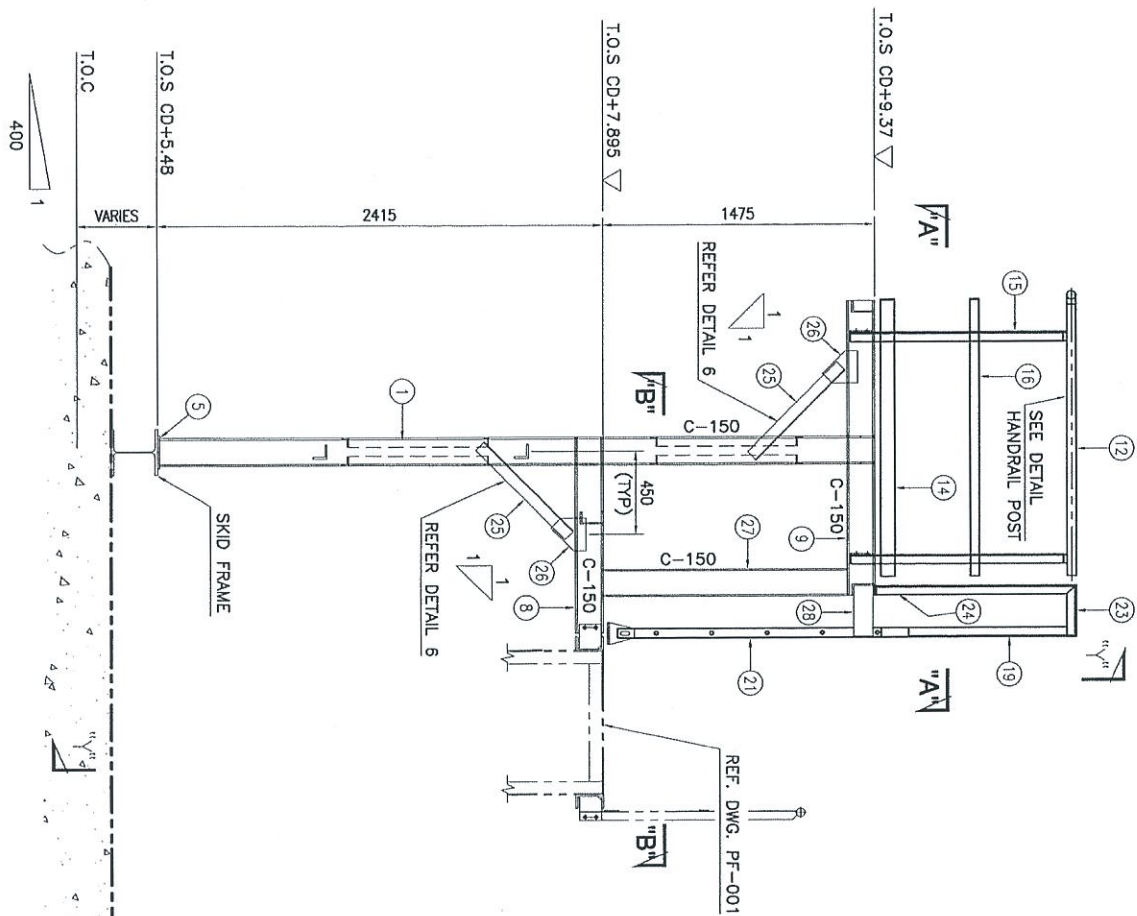
OPERATING PLATFORM - (TYPE-3A)



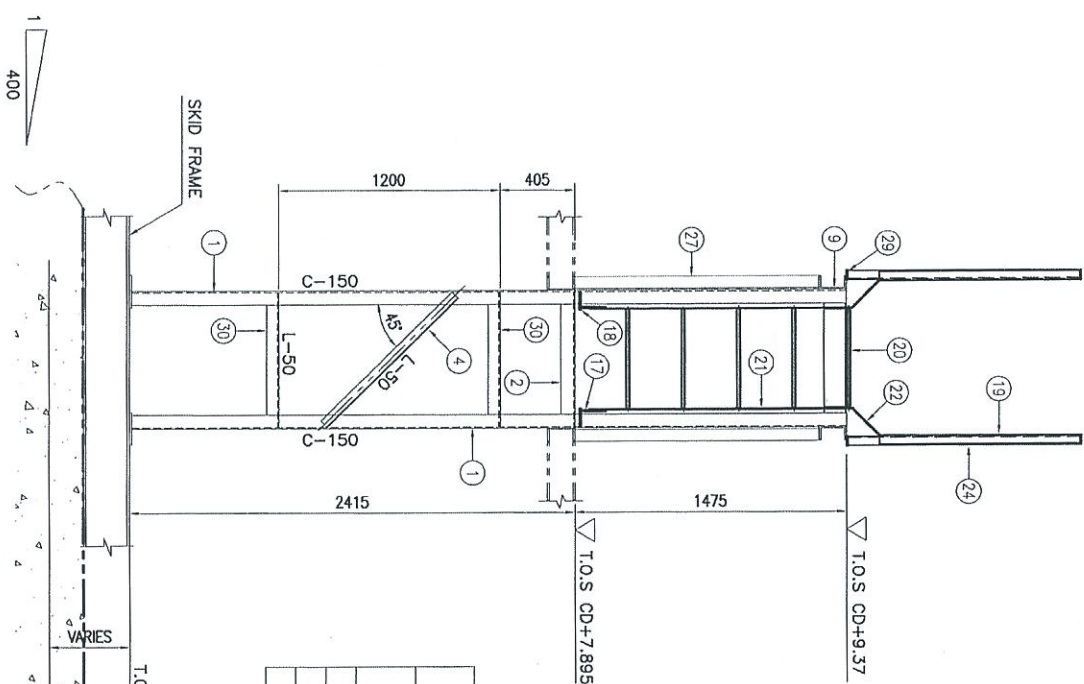
SECTION "A" - "A"
OPERATING PLATFORM AT T.O.S CD+9.37
SCALE 1:20



SECTION "B" - "B"
OPERATING PLATFORM AT T.O.S CD+7.895
SCALE 1:20



ELEVATION
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WGT (1 SET)
1	LEG - C150 x 75 x 91 x 3878L	A 36 OR EQ.	2	186.1
2	SUPPORT - C125 x 65 x 61 x 750L	A 36 OR EQ.	3	30.2
3	CLEAT - 135 x 120 x 91	A 36 OR EQ.	4	4.6
4	BRACING - L50 x 50 x 61 x 990L	A 36 OR EQ.	4	17.5
5	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	6.1
6	FLOOR GRATING - 1595 x 880 x 251	A 36 OR EQ.	1	41.1
7	FLOOR GRATING - 1035 x 880 x 251	A 36 OR EQ.	1	26.9
8	FRAME - C150 x 75 x 6.51 x 1068L	A 36 OR EQ.	2	39.7
9	FRAME - C150 x 75 x 6.51 x 1605L	A 36 OR EQ.	2	59.7
10	FRAME - C125 x 65 x 61 x 750L	A 36 OR EQ.	1	18.0
11	90° SR ELBOW - Ø1½ x SCH 40	SGP	2	3.8
12	HAND RAIL - Ø1½ x SCH 40 x 1498L	SGP	2	10.2
13	HAND RAIL - Ø1½ x SCH 40 x 835L	SGP	1	2.8
14	TOE PLATE - F875 x 61 x 1500L	A 36 OR EQ.	2	10.6
15	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	4	20.9
16	MID RAIL - F850 x 61 x 1500L	A 36 OR EQ.	2	7.1
17	CLEAT - 100 x 120 x 91	A 36 OR EQ.	2	1.7
18	CLEAT - 120 x 135 x 91	A 36 OR EQ.	2	2.3
19	STRINGER - L50 x 50 x 61 x 1092L	A 36 OR EQ.	2	9.7
20	RUNG - R8 Ø19 x 556L	A 36 OR EQ.	5	6.2
21	STRINGER - F850 x 81 x 1431L	A 36 OR EQ.	2	9.0
22	STRINGER - F850 x 81 x 211L	A 36 OR EQ.	2	2.5
23	STRINGER - L50 x 50 x 61 x 281L	A 36 OR EQ.	2	1.8
24	STRINGER - L50 x 50 x 61 x 1085L	A 36 OR EQ.	2	9.6
25	SUPPORT - L65 x 65 x 61 x 685L	A 36 OR EQ.	4	16.2
26	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	4	9.5
27	SUPPORT - C150 x 75 x 6.51 x 1328L	A 36 OR EQ.	2	49.3
28	CLEAT - 275 x 100 x 81	A 36 OR EQ.	2	3.5
29	PAD PLATE - 55 x 55 x 91	A 36 OR EQ.	2	0.4
30	BRACING - L50 x 50 x 61 x 735L	A 36 OR EQ.	2	6.6
TOTAL				613.6

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

OPERATING PLATFORM	QTY.
TYPE 3A-LPS-301D/NSOP	6
TOTAL REQ'D = 6	

NO.	REVISION	DATE	BY	CHK.	APP.	DATE
1	ISSUED FOR APPROVAL	18/03/13	AW	AW	AW	18/03/13
2	ISSUED FOR FABRICATION	18/03/13	AW	AW	AW	18/03/13
3	ISSUED FOR CONSTRUCTION	18/03/13	AW	AW	AW	18/03/13

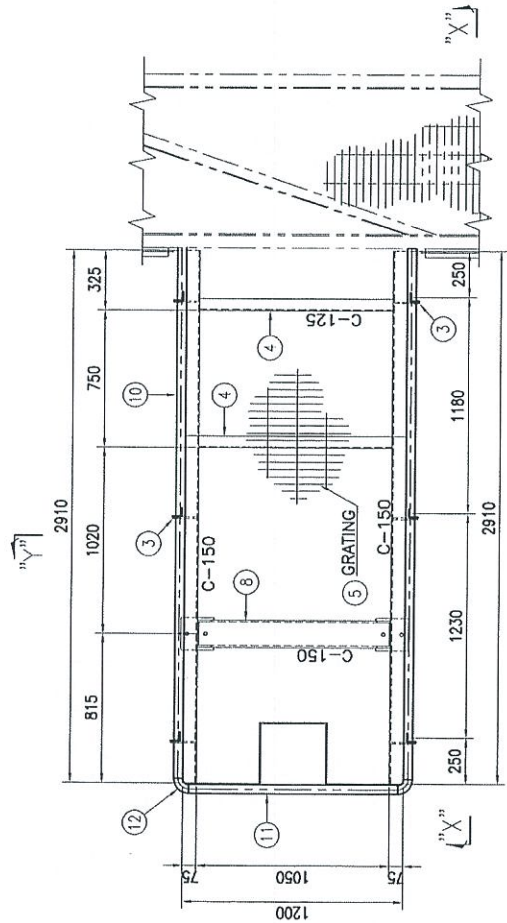
PROJECT OWNER:
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT:
DIALOG E & C SDN. BHD. (18183-B)
100, BLOCK 6, PUSAT DAMANSARA 1,
NO. 8, JALAN 19/11, 4300 PUSAT JAYA, SELANGOR.

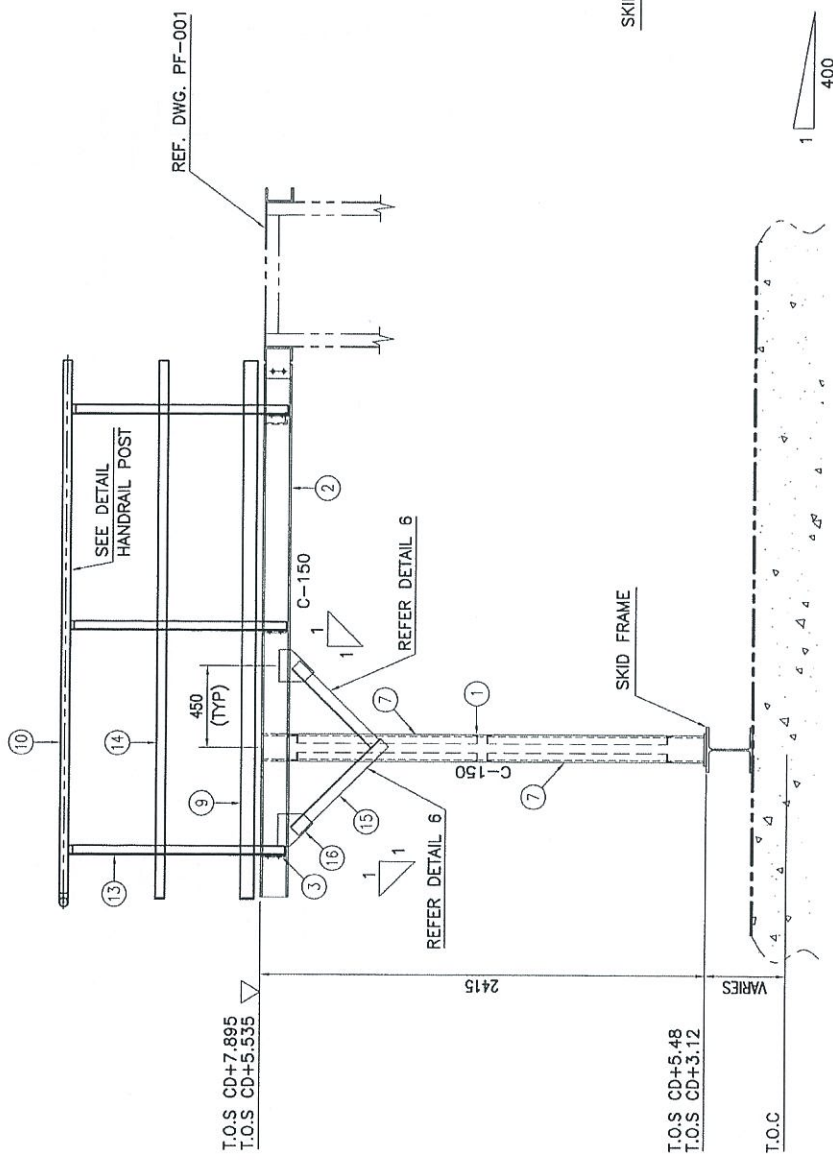
DRAWING TITLE:
LPS-301
NORTH/SOUTH SIDE OPERATING PLATFORM
(TYPE-3A)

SCALE: AS SHOWN
CHECKED: EAW
DRAWN: PAW
APPROVED: EAW
DATE: 18/03/13
FLAME: -
DWG. NO.: DH0008-ENG-C-PF-0220

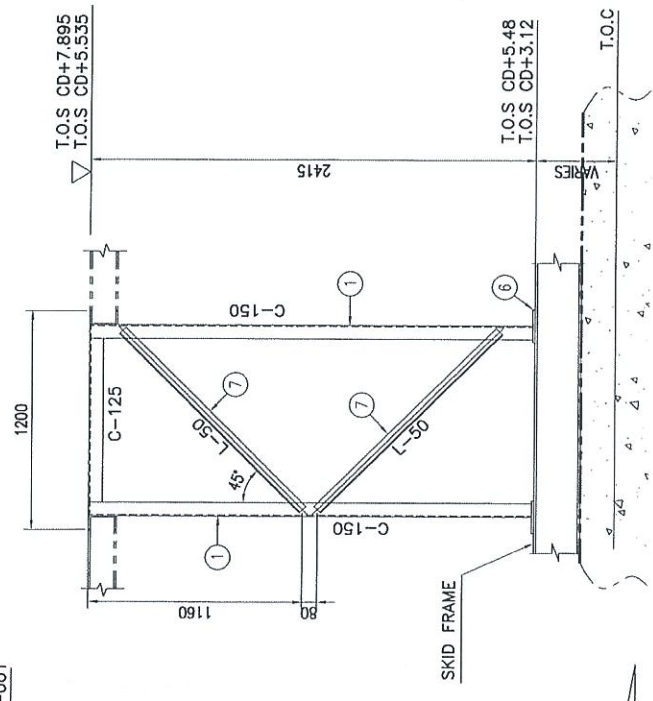
OPERATING PLATFORM - (TYPE-4)



**PLAN VIEW
OPERATING PLATFORM
T.O.S CD + 5.35/T.O.S CD + 7.895**
SCALE 1:20



VIEW "X"-X"
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

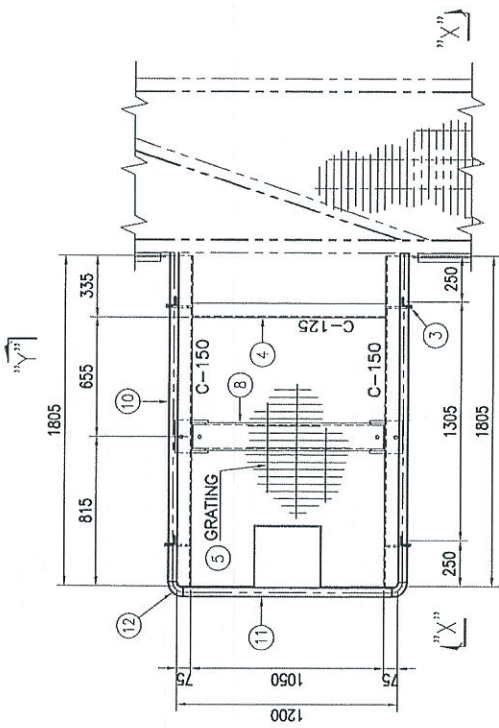
OPERATING PLATFORM		
DESCRIPTION	QTY.	TOTAL REQ'D = 53
TYPE 4-LPS-301S/NSOP	23	
TYPE 4-LPS-301S/SSOP	21	
TYPE 4-LPS-301D/NSOP	3	
TYPE 4-LPS-301D/SSOP	6	
TOTAL REQ'D = 53		

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (1 SET)
1	LEG - C150 x 75 x 91 x 2403L	A36 OR EQ.	2	115.3
2	FRAME - C150 x 75 x 6.51 x 2910L	A36 OR EQ.	2	108.3
3	CLEAT - 135 x 120 x 91	A36 OR EQ.	6	6.9
4	FRAME - C125 x 65 x 61 x 1050L	A36 OR EQ.	2	28.1
5	FLOOR GRATING - 1180 x 2890L x 251	A36 OR EQ.	1	100.6
6	BASE PLATE - 180 x 180 x 121	A36 OR EQ.	2	6.1
7	BRACING - L50 x 50 x 61 x 1390L	A36 OR EQ.	4	24.6
8	SUPPORT - C150 x 75 x 6.51 x 1050L	A36 OR EQ.	1	19.5
9	TOE PLATE - FB75 x 61 x 2940L	A36 OR EQ.	2	20.8
10	HAND RAIL - Ø1½ x SCH 40 x 2900L	SGP	2	19.7
11	HAND RAIL - Ø1½ x SCH 40 x 1135L	SGP	1	3.8
12	90° SR ELBOW - Ø1½ x SCH 40	SGP	2	3.8
13	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	8	41.7
14	MID RAIL - FB50 x 61 x 2940L	A36 OR EQ.	2	13.8
15	SUPPORT - L65 x 65 x 61 x 685L	A 36 OR EQ.	4	16.2
16	GUSSET PLATE - 177 x 189 x 91	A36 OR EQ.	4	9.5
TOTAL				538.7

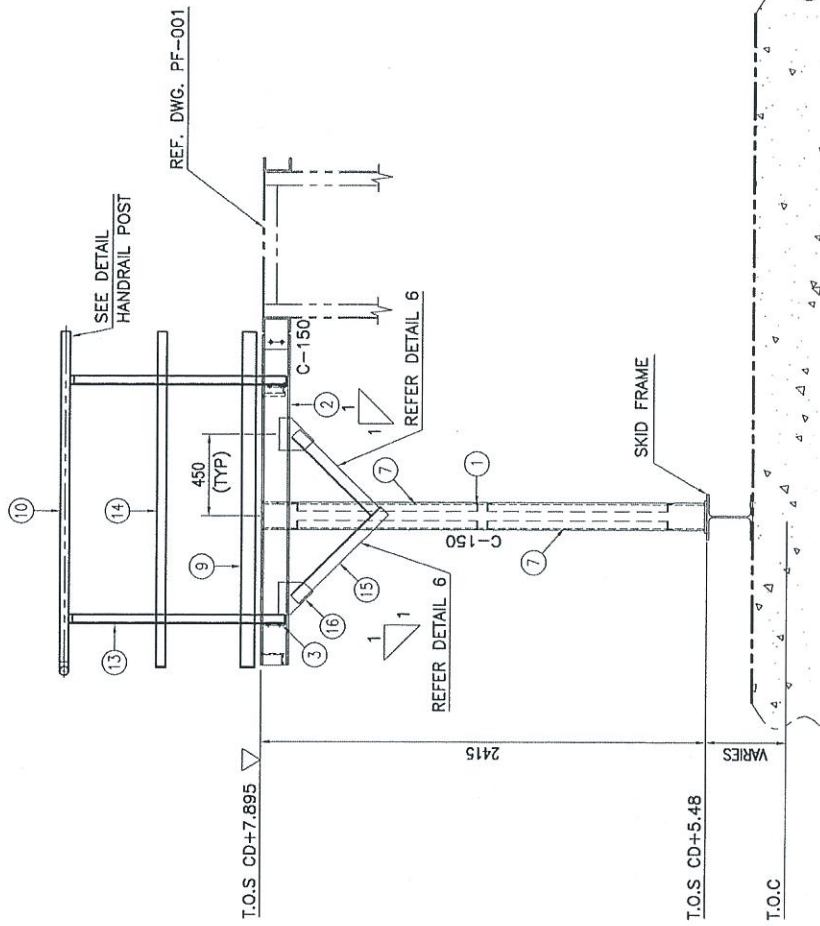
NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

PING GONG, APPROVED AT LPS-301 MASTER TOOL PLAN FOR PING-1 DWG NO.	REFERENCE DRAWINGS TITLE PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.	CHECKED FOR APPROVAL BY : DATE : 16/02/13	APPROVED BY : DATE :
CONSULTANT : DIALOG E & C SDN. BHD. (18780-0) 108, BLOK 6, PHLO DAMANSARA 1, NO. 7, JALAN 16/171, 4000 POKONG JAYA, SELANGOR.			
DRAWING TITLE : LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-4)			
SCALE : AS SHOWN	CHECKED : ERMA	DRAWN : PHAN	APPROVED : LHM
DATE : 16/02/13	FILENAME :	(A1)	
DWG. NO. : DH0008-ENG-C-PF-0221	SHT. NO. : 1 OF 3		REV. : 0

OPERATING PLATFORM - (TYPE-4B)

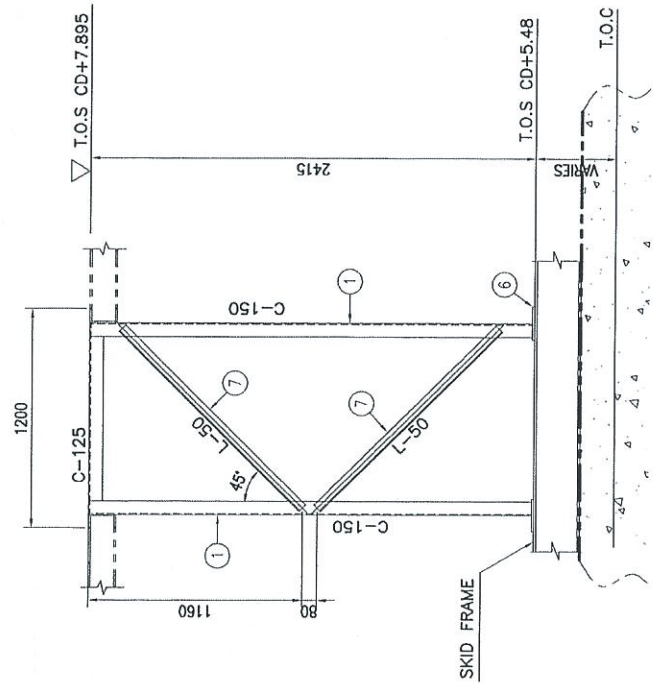


PLAN VIEW
OPERATING PLATFORM AT T.O.S CD + 7.895
SCALE 1:20



VIEW "X-X"
SCALE 1:20

OPERATING PLATFORM	
DESCRIPTION	QTY.
TYPE 4B-LPS-301D/NSOP	4
TOTAL REQ'D = 4	



SECTION "Y-Y"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (1 SET)
1	LEG - C150 x 75 x 91 x 2403L	A 36 OR EQ.	2	115.3
2	FRAME - C150 x 75 x 6.51 x 1805L	A 36 OR EQ.	2	67.1
3	CLEAT - 135 x 120 x 91	A 36 OR EQ.	4	4.6
4	FRAME - C125 x 65 x 61 x 1050L	A 36 OR EQ.	2	28.1
5	FLOOR GRATING - 1180 x 2890L x 251	A 36 OR EQ.	1	100.6
6	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	6.1
7	BRACING - L50 x 50 x 61 x 390L	A 36 OR EQ.	4	24.6
8	SUPPORT - C150 x 75 x 6.51 x 1050L	A 36 OR EQ.	1	19.5
9	TOE PLATE - FB75 x 61 x 1835L	A 36 OR EQ.	2	13.0
10	HAND RAIL - Ø1½ x SCH 40 x 11795L	SGP	2	12.2
11	HAND RAIL - Ø1½ x SCH 40 x 1135L	SGP	1	3.8
12	90° SR ELBOW - Ø1½ x SCH 40	SGP	2	3.8
13	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	8	41.7
14	MID RAIL - FB50 x 61 x 1835L	A 36 OR EQ.	2	8.6
15	SUPPORT - L65 x 65 x 61 x 685L	A 36 OR EQ.	4	16.2
16	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	4	9.5
TOTAL				474.7

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS D1.1.

PROJECT NO. : **PF000-000-01-001, SHEET 1-7**
 PROJECT TITLE : **PIPELINE GENERAL ARRANGEMENT AT LPS-301**
 DRAWING NO. : **000-000-01-001-001-001**
 DRAWING TITLE : **REFERENCE DRAWINGS**

DESIGNED FOR APPROVAL	DATE	BY	CHK	APPR.	DATE
ISSUED FOR COMMENTS	18/03/13	LMK	LMK	LMK	18/03/13

PROJECT TITLE : **INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG**

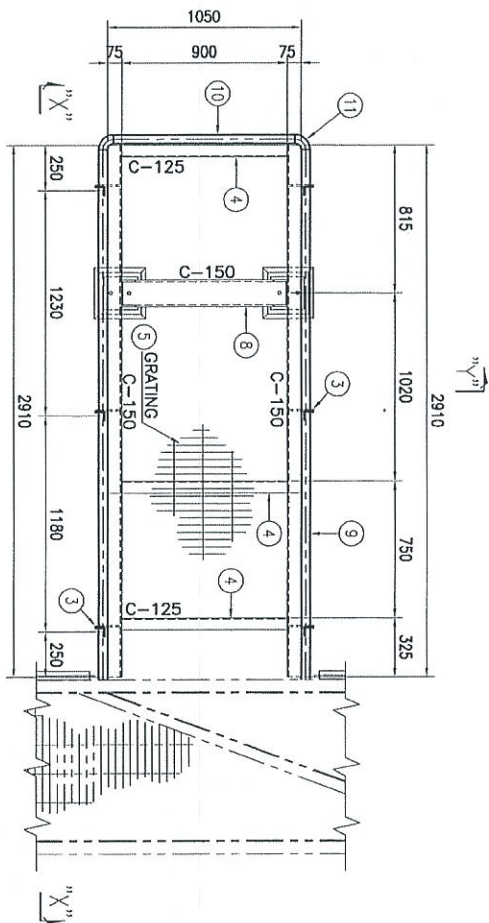
PROJECT OWNER : **DIALOG INDEPENDENT TERMINALS SDN. BHD.**

CONSULTANT : **DIALOG E & C SDN. BHD. (18830-0)**
 109, JALAN G. P. HILDA DAMASISIA 1, JAYA, SELANGOR.
 NO. 11, JALAN 16/11, 46200 FELDIPUS JAYA, SELANGOR.

DRAWING TITLE : **LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-4B)**

SCALE : AS SHOWN
 CHECKED : ERMA
 DRAWN : PAN
 APPROVED : LMK
 DATE : 18/03/13
 FILENAME : -
 DWG. NO. : **DH0008-ENG-C-PF-0221**
 SHEET NO. : 3 OF 3
 REV. : 0

OPERATING PLATFORM - (TYPE-5)

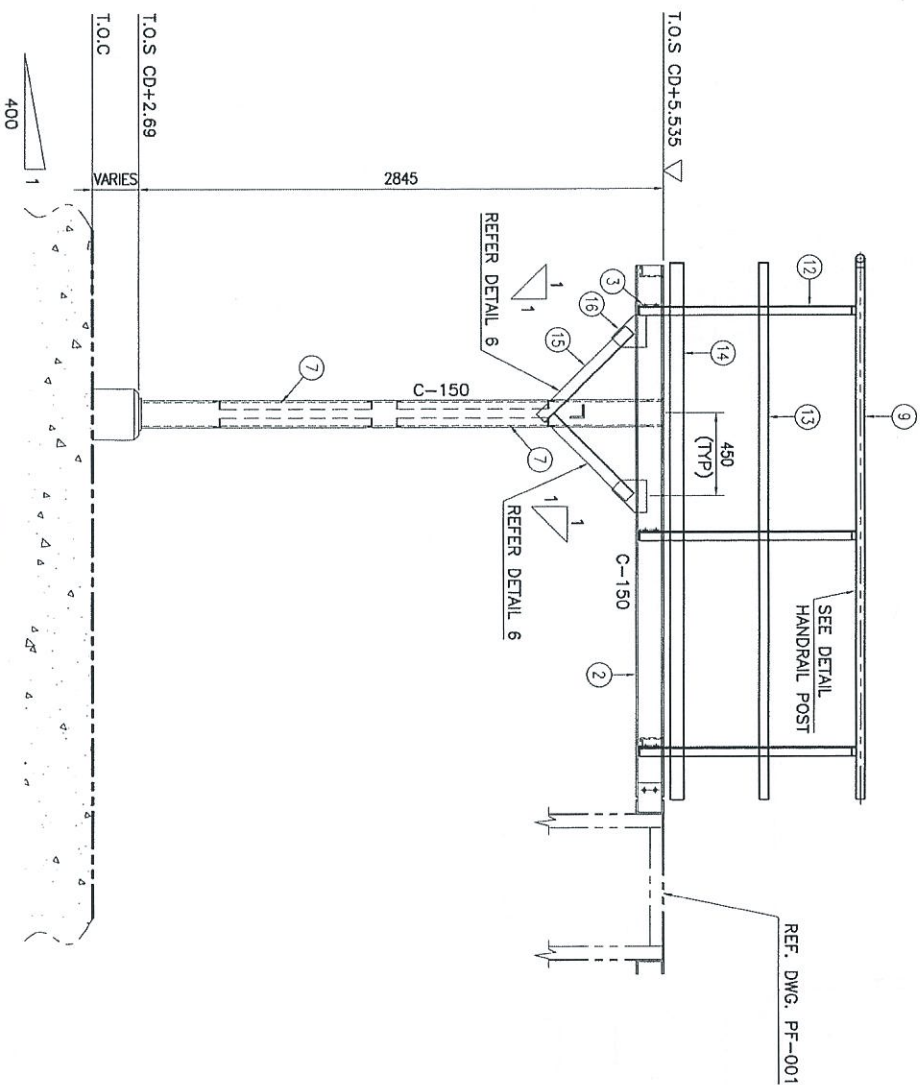


PLAN VIEW
OPERATING PLATFORM AT T.O.S CD + 5.535
SCALE 1:20

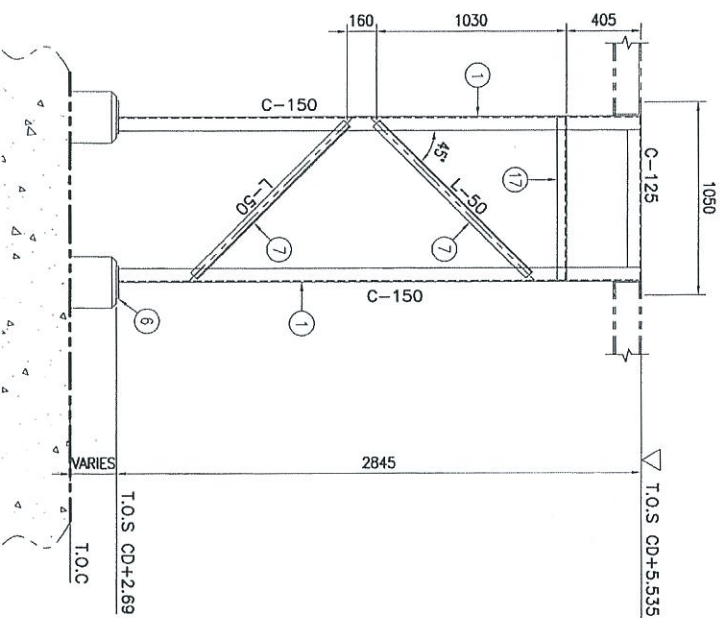
DESCRIPTION	QTY.
OPERATING PLATFORM	
TYPE 5-LPS-301S/NSOP	6
TYPE 5-LPS-301S/SSOP	4
TOTAL REQ'D = 10	

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	LEG - C150 x 75 x 91 x 2833L	A36 OR EQ.	2	136.0
2	FRAME - C150 x 75 x 6.51 x 2910L	A36 OR EQ.	2	108.3
3	CLEAT - 135 x 120 x 91	A36 OR EQ.	6	6.9
4	FRAME - C125 x 65 x 61 x 900L	A36 OR EQ.	3	36.2
5	FLOOR GRATING - 1030 x 2890L x 25t	A36 OR EQ.	1	87.8
6	BASE PLATE - 180 x 180 x 12t	A36 OR EQ.	2	6.1
7	BRACING - L50 x 50 x 61 x 1170L	A36 OR EQ.	4	20.7
8	SUPPORT - C150 x 75 x 6.51 x 900L	A36 OR EQ.	1	16.7
9	HAND RAIL - Ø1½ x SCH 40 x 2900L	SGP	2	19.7
10	HAND RAIL - Ø1½ x SCH 40 x 1135L	SGP	1	3.8
11	90° SR ELBOW - Ø1½ x SCH 40	SGP	2	3.8
12	STANCHION - L50 x 50 x 61 x 1176L	A36 OR EQ.	8	41.7
13	MID RAIL - F850 x 61 x 2940L	A36 OR EQ.	2	13.8
14	TOE PLATE - F875 x 61 x 2940L	A36 OR EQ.	2	20.8
15	SUPPORT - L65 x 65 x 61 x 685L	A36 OR EQ.	4	16.2
16	GUSSET PLATE - 177 x 189 x 9t	A36 OR EQ.	4	9.5
17	BRACING - L50 x 50 x 61 x 885L	A36 OR EQ.	1	3.9
TOTAL				551.9

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.



VIEW "X" - "X"
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (199230-0)
108, 8000 G. P. ROAD, DAMANSARA
NO. 9, JALAN 19/11, 4300 PENJANG, SELANGOR.

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

DWG. NO. : DH0008-ENG-C-PF-0222

SCALE : AS SHOWN

DATE : 18/03/13

DESIGNED BY : [Signature]

CHECKED BY : [Signature]

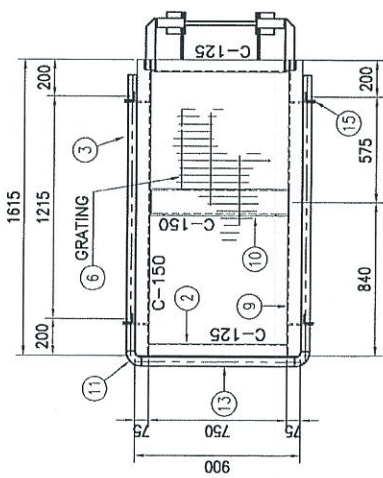
DATE : 18/03/13

SCALE : AS SHOWN

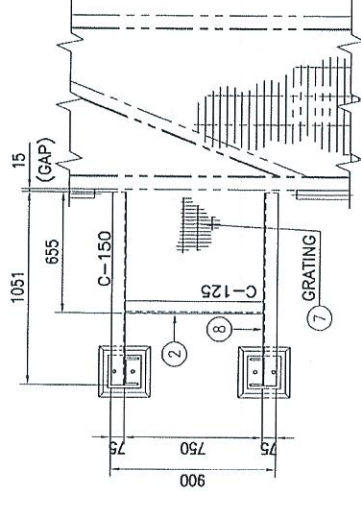
DATE : 18/03/13

NO. OF SHEETS : 1 OF 2

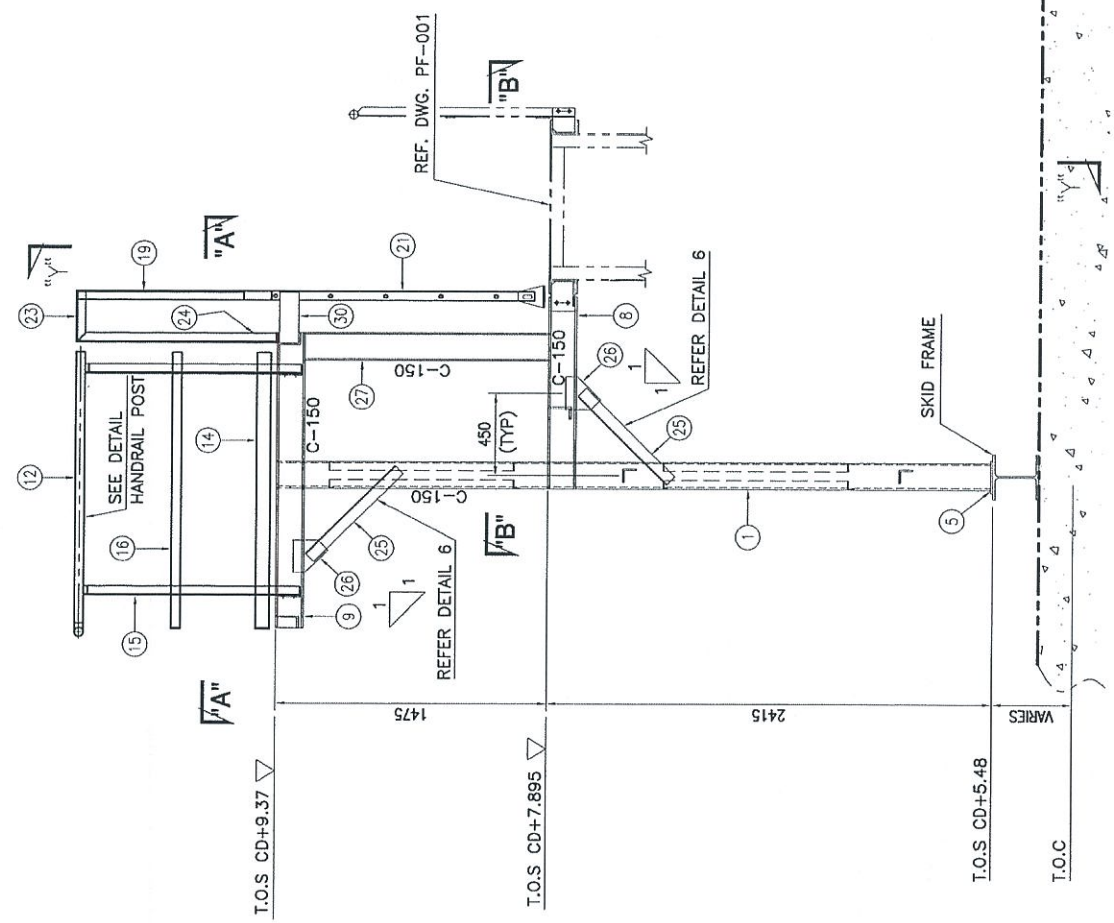
OPERATING PLATFORM - (TYPE-5A)



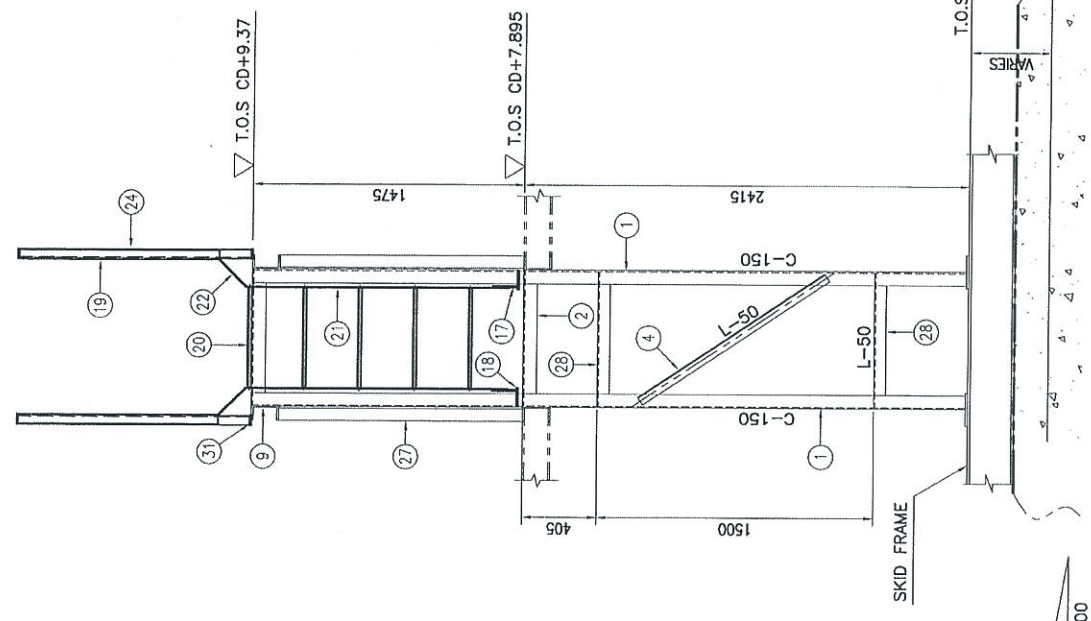
SECTION "A" - "A"
OPERATING PLATFORM AT T.O.S CD+9.37
SCALE 1:20



SECTION "B" - "B"
OPERATING PLATFORM AT T.O.S CD+7.895
SCALE 1:20



ELEVATION
SCALE 1:20



OPERATING PLATFORM
SCALE 1:20

NO.	DESCRIPTION	MATERIAL	QTY. (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	LEG - C150 x 75 x 91 x 3878L	A 36 OR EQ.	2	186.1
2	SUPPORT - C125 x 65 x 61 x 750L	A 36 OR EQ.	3	30.2
3	CLEAT - 135 x 120 x 91	A 36 OR EQ.	4	4.6
4	BRACING - L50 x 50 x 61 x 990L	A 36 OR EQ.	4	17.5
5	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	6.1
6	FLOOR GRATING - 1595 x 880 x 25f	A 36 OR EQ.	1	41.4
7	FLOOR GRATING - 1018 x 880 x 25f	A 36 OR EQ.	1	26.4
8	FRAME - C150 x 75 x 6.5f x 1051L	A 36 OR EQ.	2	39.1
9	FRAME - C150 x 75 x 6.5f x 1615L	A 36 OR EQ.	2	60.1
10	FRAME - C150 x 75 x 6.5f x 750L	A 36 OR EQ.	1	14.0
11	90° SR ELBOW - Ø1 1/2 x SCH 40	SGP	2	3.8
12	HAND RAIL - Ø1 1/2 x SCH 40 x 1510L	SGP	2	10.2
13	HAND RAIL - Ø1 1/2 x SCH 40 x 835L	SGP	1	2.8
14	TOE PLATE - FB75 x 61 x 1510L	A 36 OR EQ.	2	10.6
15	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	4	20.9
16	MID RAIL - FB50 x 61 x 1510L	A 36 OR EQ.	2	7.1
17	CLEAT - 100 x 120 x 91	A 36 OR EQ.	2	1.7
18	CLEAT - 120 x 135 x 91	A 36 OR EQ.	2	2.3
19	STRINGER - FB50 x 81 x 1092L	A 36 OR EQ.	2	6.9
20	RUNG - RB Ø19 x 556L	A 36 OR EQ.	5	6.2
21	STRINGER - FB50 x 81 x 1431L	A 36 OR EQ.	2	9.0
22	STRINGER - FB50 x 81 x 211L	A 36 OR EQ.	2	1.3
23	STRINGER - FB50 x 81 x 281L	A 36 OR EQ.	2	1.8
24	STRINGER - FB50 x 81 x 1085L	A 36 OR EQ.	2	6.8
25	SUPPORT - L65 x 65 x 61 x 685L	A 36 OR EQ.	4	16.2
26	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	4	9.5
27	SUPPORT - C150 x 75 x 6.5f x 1325L	A 36 OR EQ.	2	49.3
28	BRACING - L50 x 50 x 61 x 735L	A 36 OR EQ.	2	6.6
29	CLEAT - 275 x 100 x 81	A 36 OR EQ.	2	3.5
30	PAD PLATE - 55 x 55 x 91	A 36 OR EQ.	2	0.4
TOTAL				602.4

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

OPERATING PLATFORM	QTY.
DESCRIPTION	1
TYPE 5A-LPS-301D/NSOP	1
TOTAL REQ'D =	1

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (103289-0)

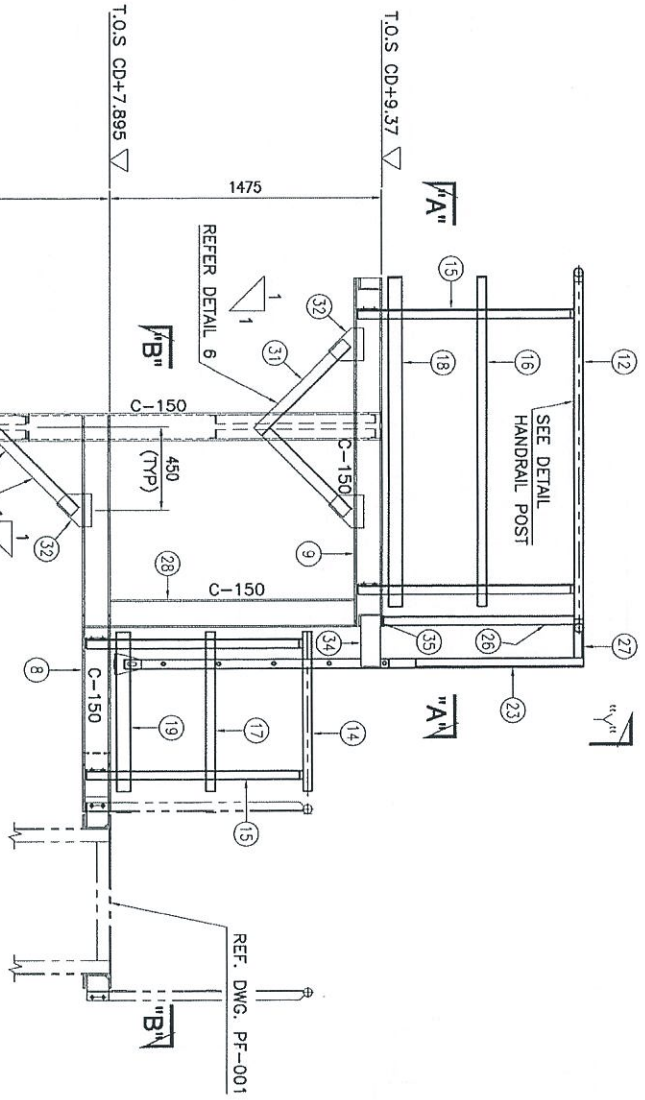
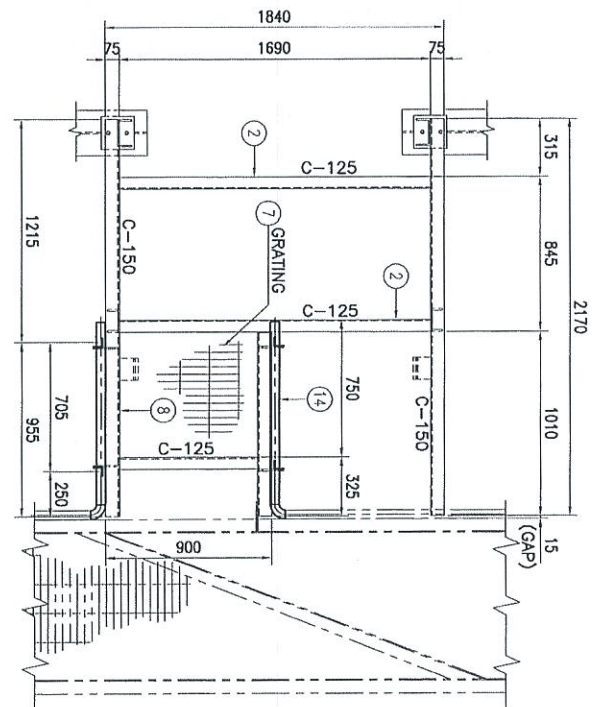
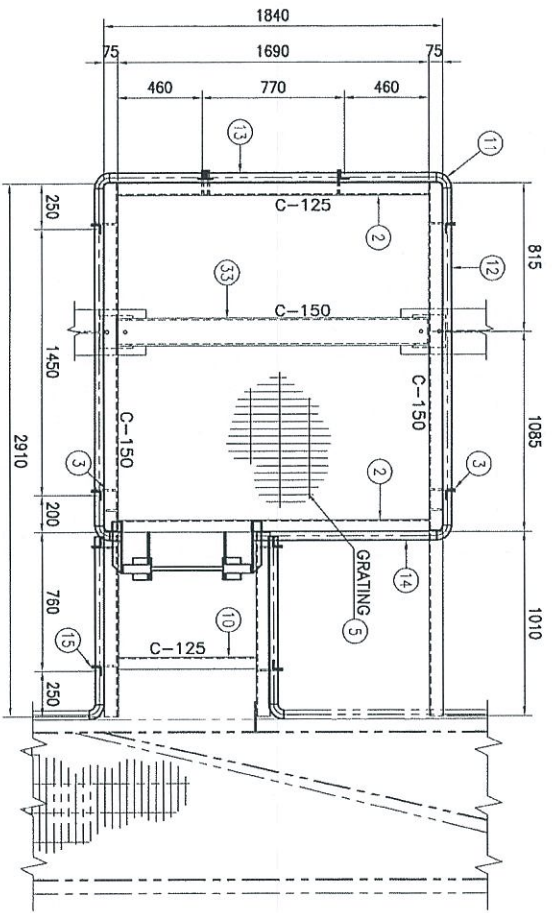
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DRAWN : PAN
DATE : 18/03/13
Dwg. NO. : DH0008-ENG-C-PF-0222

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ISSUED FOR COMMENTS :
REV. :
DESCRIPTION :
BY :
CHK :
APPR. :
DATE :

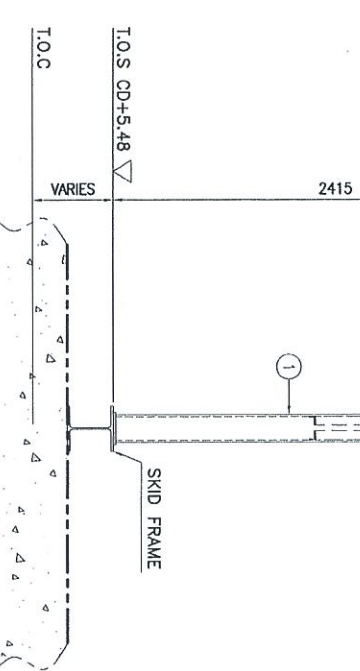
REFERENCE DRAWINGS :
TITLE :
DIALOG GENERAL ARRANGEMENT AT LPS-301
MASTER PLAN FOR PHASE-1
Dwg. NO. :

SHR. NO. REV. : 2 OF 2 0

OPERATING PLATFORM - (TYPE-6)

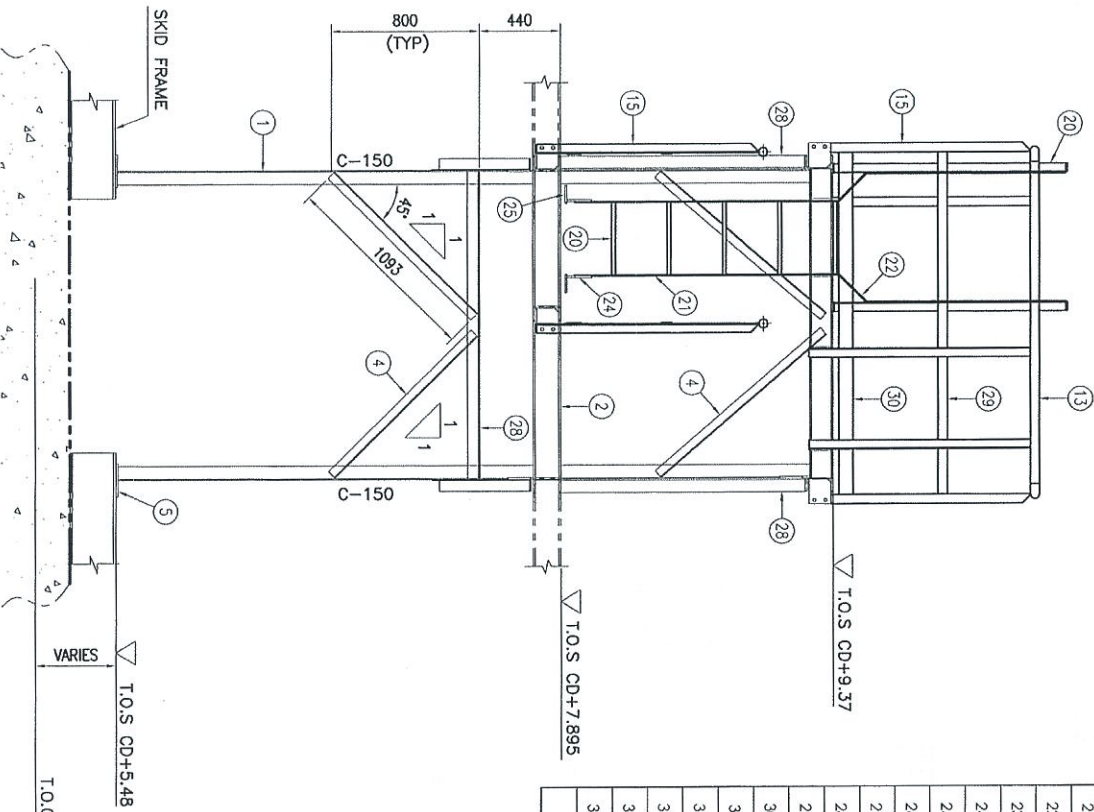


SECTION "B" - "B"
OPERATING PLATFORM AT T.O.S CD+7.895
SCALE 1:20



ELEVATION
SCALE 1:20

OPERATING PLATFORM	QTY.
DESCRIPTION	
TYPE 6-LPS-301D/NSOP	1
TYPE 6-LPS-301D/SSOP	1
TOTAL REQ'D =	2



SECTION "Y" - "Y"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (1 SET)
1	LEG - C150 x 75 x 91 x 387BL	A 36 OR EQ.	2	186.1
2	FRAME - C125 x 45 x 61 x 1690L	A 36 OR EQ.	4	90.6
3	CLEAT - 133 x 120 x 91	A 36 OR EQ.	10	11.25
4	BRACING - L50 x 50 x 61 x 1093L	A 36 OR EQ.	4	19.4
5	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	6.1
6	FLOOR GRATING - 1900 x 1600 x 25F	A 36 OR EQ.	1	89.7
7	FLOOR GRATING - 1075 x 900 x 25F	A 36 OR EQ.	1	28.5
8	FRAME - C150 x 75 x 6.51 x 2170L	A 36 OR EQ.	2	80.7
9	FRAME - C150 x 75 x 6.51 x 1900L	A 36 OR EQ.	2	70.7
10	FRAME - C125 x 45 x 61 x 750L	A 36 OR EQ.	1	10.1
11	90° SR ELBOW - Ø1½ x SCH 40	SGP	6	11.4
12	HAND RAIL - Ø1½ x SCH 40 x 1841L	SGP	2	12.5
13	HAND RAIL - Ø1½ x SCH 40 x 1776L	SGP	1	6.0
14	HAND RAIL - Ø1½ x SCH 40 x 999L	SGP	3	10.2
15	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	10	52.1
16	MID RAIL - FB50 x 61 x 1798L	A 36 OR EQ.	2	8.4
17	MID RAIL - FB50 x 61 x 874L	A 36 OR EQ.	2	4.1
18	TOE PLATE - FB75 x 61 x 1798L	A 36 OR EQ.	2	12.7
19	TOE PLATE - FB75 x 61 x 874L	A 36 OR EQ.	2	6.2
20	RUNG - R8 Ø19 x 556L	A 36 OR EQ.	5	6.2
21	STRINGER - FB50 x 81 x 1431L	A 36 OR EQ.	2	9.0
22	STRINGER - FB50 x 81 x 211L	A 36 OR EQ.	2	1.3
23	STRINGER - L50 x 50 x 61 x 1092L	A 36 OR EQ.	2	9.7
24	CLEAT - 100 x 120 x 91	A 36 OR EQ.	2	1.7
25	CLEAT - 120 x 135 x 91	A 36 OR EQ.	2	2.3
26	STRINGER - L50 x 50 x 61 x 1089L	A 36 OR EQ.	2	6.8
27	STRINGER - L50 x 50 x 61 x 281L	A 36 OR EQ.	2	2.5
28	SUPPORT - C150 x 75 x 6.51 x 1325L	A 36 OR EQ.	2	49.3
29	MID RAIL - FB50 x 61 x 1872L	A 36 OR EQ.	1	4.4
30	TOE PLATE - FB75 x 61 x 1872L	A 36 OR EQ.	1	6.6
31	SUPPORT - L55 x 65 x 61 x 685L	A 36 OR EQ.	6	24.3
32	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	6	14.25
33	FRAME - C150 x 75 x 6.51 x 1690L	A 36 OR EQ.	1	31.4
34	CLEAT - 275 x 100 x 81	A 36 OR EQ.	2	3.5
35	PAD PLATE - 55 x 55 x 91	A 36 OR EQ.	2	0.4
TOTAL				890.4

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELDS TO BE IN ACCORDANCE WITH AWS-D1.1.

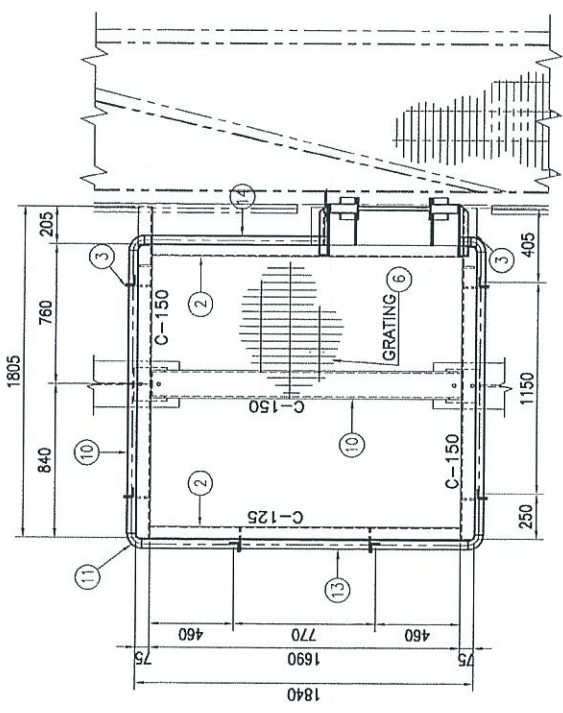
PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.
CONSULTANT : DIALOG E & C SDN. BHD. (18389-U)
101, Block 6, PUSAT DAMANSARA 1, NO. 9, JALAN 19/11, 4300 PUSAT JAYA, SELANGOR.
DRAWING TITLE : LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6)
SCALE : AS SHOWN / CHECKED : EMK / DATE : 16/01/13 / FILENAME : / SHEET NO. / REV. NO. / REV. DATE : /

PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

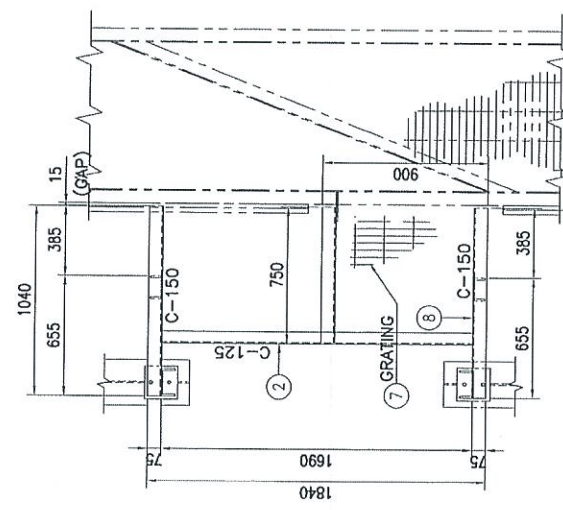
DATE : 16/01/13
DRAWN :
CHECKED : EMK
DATE : 16/01/13
DATE : 16/01/13

PROJECT NO. : DHO008-ENG-C-PF-0223
SHEET NO. : 1 OF 3

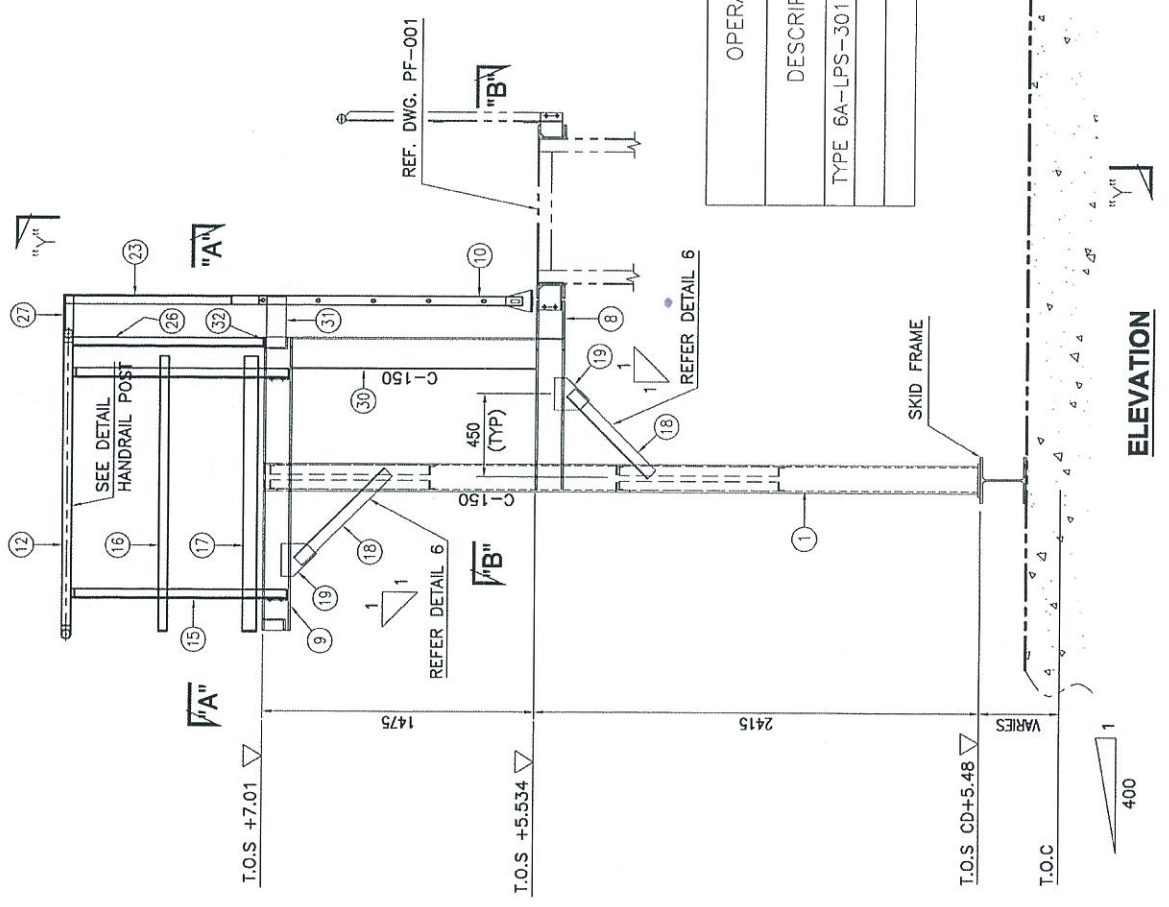
OPERATING PLATFORM - (TYPE-6A)



**SECTION "A"-A"
OPERATING PLATFORM AT T.O.S CD + 5.534**
SCALE 1:20



**SECTION "B"-B"
OPERATING PLATFORM AT T.O.S CD+7.01**
SCALE 1:20



ELEVATION
SCALE 1:20

OPERATING PLATFORM	QTY.
DESCRIPTION	1
TYPE 6A-LPS-301D/NSOP	1
TOTAL REQ'D = 1	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. 1 SET)
1	LEG - C150 x 75 x 91 x 3878L	A 36 OR EQ.	2	186.1
2	FRAME - C125 x 65 x 61 x 1690L	A 36 OR EQ.	3	67.9
3	CLEAT - 133 x 120 x 91	A 36 OR EQ.	10	11.25
4	BRACING - L50 x 50 x 61 x 1093L	A 36 OR EQ.	4	19.4
5	BASE PLATE - 180 x 180 x 121	A 36 OR EQ.	2	6.1
6	FLOOR GRATING - 1820 x 1580 x 25f	A 36 OR EQ.	1	84.8
7	FLOOR GRATING - 730 x 880 x 25f	A 36 OR EQ.	1	19.0
8	FRAME - C150 x 75 x 6.51 x 1040L	A 36 OR EQ.	2	38.7
9	FRAME - C150 x 75 x 6.51 x 1600L	A 36 OR EQ.	2	59.5
10	SUPPORT - C150 x 75 x 6.51 x 1690L	A 36 OR EQ.	1	31.4
11	90° SR ELBOW - Ø1 1/2 x SCH 40	SGP	4	7.6
12	HAND RAIL - Ø1 1/2 x SCH 40 x 1541L	SGP	2	10.4
13	HAND RAIL - Ø1 1/2 x SCH 40 x 1776L	SGP	1	6.0
14	HAND RAIL - Ø1 1/2 x SCH 40 x 999L	SGP	1	3.4
15	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	6	31.3
16	MID RAIL - FB50 x 61 x 1498L	A 36 OR EQ.	2	7.1
17	TOE PLATE - FB75 x 61 x 1498L	A 36 OR EQ.	2	10.6
18	SUPPORT - L65 x 65 x 61 x 685L	A 36 OR EQ.	4	16.2
19	GUSSET PLATE - 177 x 189 x 91	A 36 OR EQ.	4	9.5
20	RUNG - RB Ø19 x 556L	A 36 OR EQ.	5	6.2
21	STRINGER - FB50 x 81 x 1431L	A 36 OR EQ.	2	9.0
22	STRINGER - FB50 x 81 x 211L	A 36 OR EQ.	2	1.3
23	STRINGER - L50 x 50 x 61 x 1092L	A 36 OR EQ.	2	9.7
24	CLEAT - 100 x 120 x 91	A 36 OR EQ.	2	1.7
25	CLEAT - 120 x 135 x 91	A 36 OR EQ.	2	2.3
26	STRINGER - L50 x 50 x 61 x 1085L	A 36 OR EQ.	2	6.8
27	STRINGER - L50 x 50 x 61 x 281L	A 36 OR EQ.	2	2.5
28	TOE PLATE - FB75 x 61 x 1872L	A 36 OR EQ.	1	6.6
29	MID RAIL - FB50 x 61 x 1872L	A 36 OR EQ.	1	4.4
30	SUPPORT - C150 x 75 x 6.51 x 1325L	A 36 OR EQ.	2	49.3
31	CLEAT - 275 x 100 x 81	A 36 OR EQ.	2	3.5
32	PAD PLATE - 55 x 55 x 91	A 36 OR EQ.	2	0.4
TOTAL				730.0

PROJECT TITLE: **INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG**

PROJECT OWNER: **DIALOG INDEPENDENT TERMINALS SDN. BHD.**

CONSULTANT: **DIALOG E & C SDN. BHD. (18328-0)**
128, BLOK 6, PHLO DUMASARA 1, NO. 8, JALAN 16/11, KUSO PEPUNG JAYA, SELANGOR.

DRAWING TITLE: **LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)**

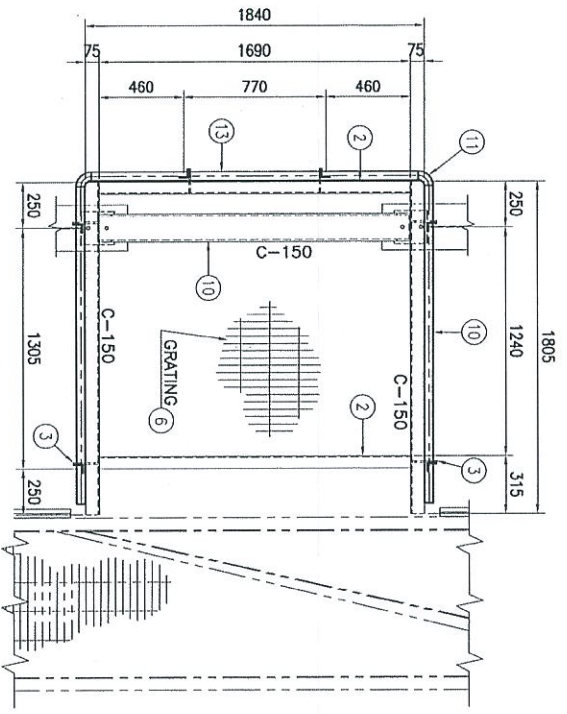
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CHECKED: ERMA
DRAWN: PAH
APPROVED: LAM

DATE: 18/09/13
FILENAME:
DWG. NO: **DH0008-ENG-C-PF-0223** (A)
SIT. NO. REC: **2** OF 3 **0**

REFERENCE DRAWINGS:
 1. PFD GENERAL ARRANGEMENT AT LPS-301
 2. MASTER PLAN FOR PHASE-1
 3. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 4. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
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 13. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 14. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 15. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 16. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 17. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 18. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 19. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 20. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 21. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 22. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 23. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 24. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 25. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 26. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 27. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 28. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 29. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 30. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 31. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)
 32. LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6A)

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

OPERATING PLATFORM - (TYPE-6B)

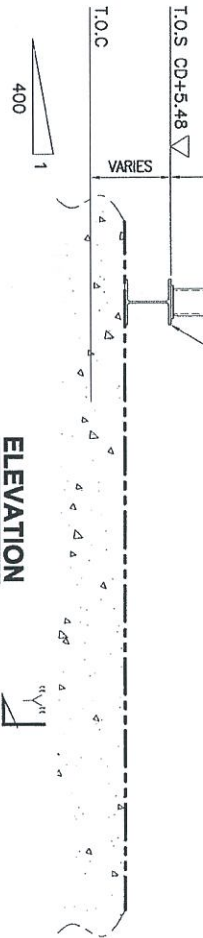
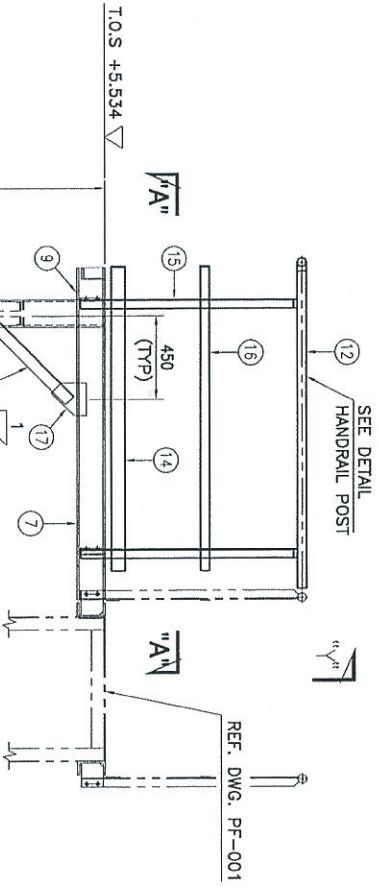


SECTION "A"- "A"
OPERATING PLATFORM AT T.O.S CD+7.01
 SCALE 1:20

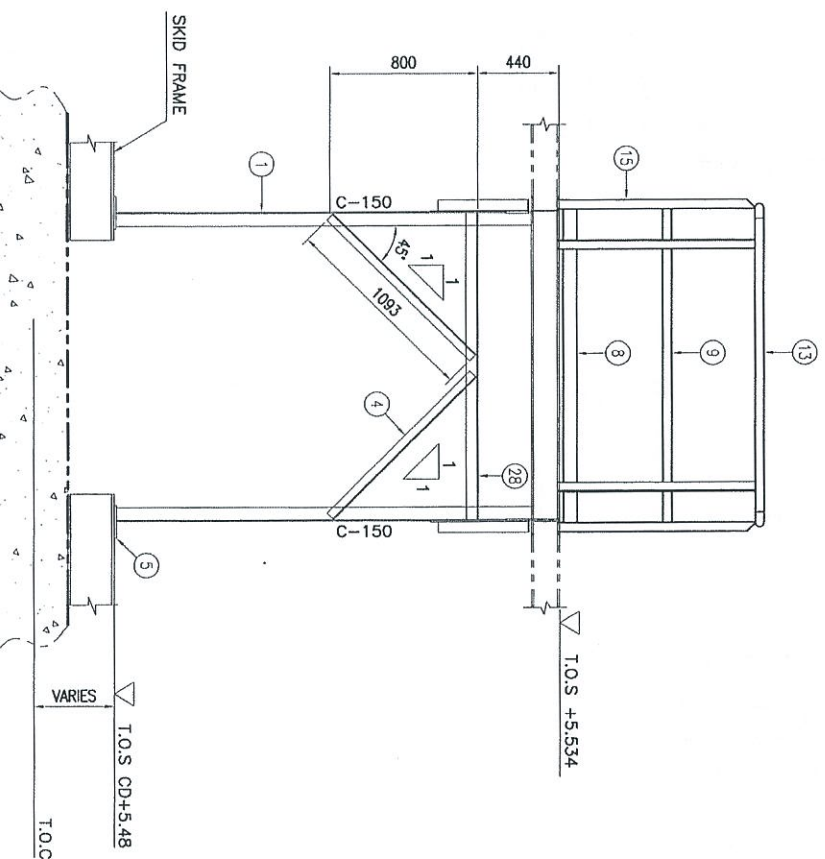
OPERATING PLATFORM	
DESCRIPTION	QTY.
TYPE 6B-LPS-301D/SSOP	1
TOTAL REQ'D = 1	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (1 SET)
1	LEG - C150 x 75 x 91 x 2403L	A36 OR EQ.	2	115.3
2	FRAME - C125 x 65 x 61 x 1690L	A36 OR EQ.	2	45.3
3	CLEAT - 133 x 120 x 91	A36 OR EQ.	6	6.75
4	BRACING - L50 x 50 x 61 x 1093L	A36 OR EQ.	2	9.7
5	BASE PLATE - 180 x 180 x 121	A36 OR EQ.	2	6.1
6	FLOOR GRATING - 1820 x 1785 x 251	A36 OR EQ.	1	95.8
7	FRAME - C150 x 75 x 6.51 x 1805L	A36 OR EQ.	2	67.1
8	TOE PLATE - FB75 x 61 x 1872L	A36 OR EQ.	1	6.6
9	MID RAIL - FB50 x 61 x 1872L	A36 OR EQ.	1	4.4
10	SUPPORT - C150 x 75 x 6.51 x 1690L	A36 OR EQ.	1	31.4
11	90° SR ELBOW - Ø1½ x SCH 40	SGP	4	7.6
12	HAND RAIL - Ø1½ x SCH 40 x 1541L	SGP	2	10.4
13	HAND RAIL - Ø1½ x SCH 40 x 1776L	SGP	1	6.0
14	TOE PLATE - FB75 x 61 x 1498L	A36 OR EQ.	2	10.6
15	STANCHION - L50 x 50 x 61 x 1176L	A36 OR EQ.	6	31.3
16	MID RAIL - FB50 x 61 x 1498L	A36 OR EQ.	2	7.1
17	GUSSET PLATE - 177 x 189 x 91	A36 OR EQ.	6	14.25
18	SUPPORT - L55 x 65 x 61 x 685L	A36 OR EQ.	6	24.3
TOTAL				500.0

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.



ELEVATION
 SCALE 1:20

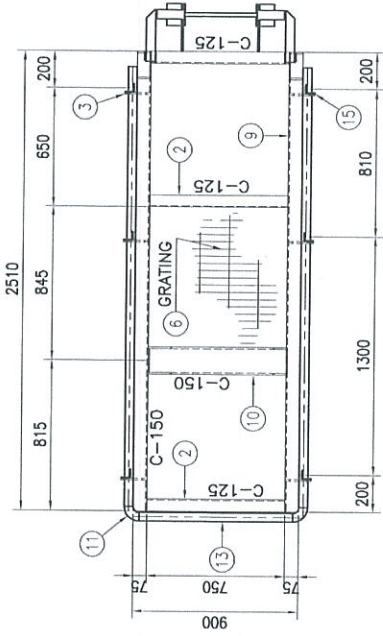


SECTION "Y'' - "Y''
 SCALE 1:20

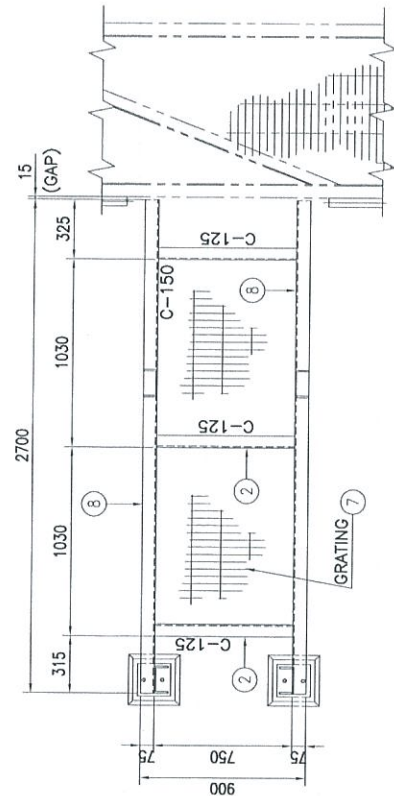
PROJECT OWNER :			
DIALOG INDEPENDENT TERMINALS SDN. BHD.			
CONSULTANT :			
DIALOG E & C SDN. BHD. (18888-U)			
109, BLOK C, PUSAT DAMANSARA 1, NO. 9, JALAN 14/11, 4300 PETUNG JAYA, SELANGOR			
DRAWING TITLE :			
LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6B)			
PROJECT TITLE :			
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG			
REFERENCE DRAWINGS			
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18	ISSUED FOR APPROVAL	BY	DATE
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PROJECT OWNER :			
DIALOG INDEPENDENT TERMINALS SDN. BHD.			
CONSULTANT :			
DIALOG E & C SDN. BHD. (18888-U)			
109, BLOK C, PUSAT DAMANSARA 1, NO. 9, JALAN 14/11, 4300 PETUNG JAYA, SELANGOR			
DRAWING TITLE :			
LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-6B)			
PROJECT TITLE :			
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG			
REFERENCE DRAWINGS			
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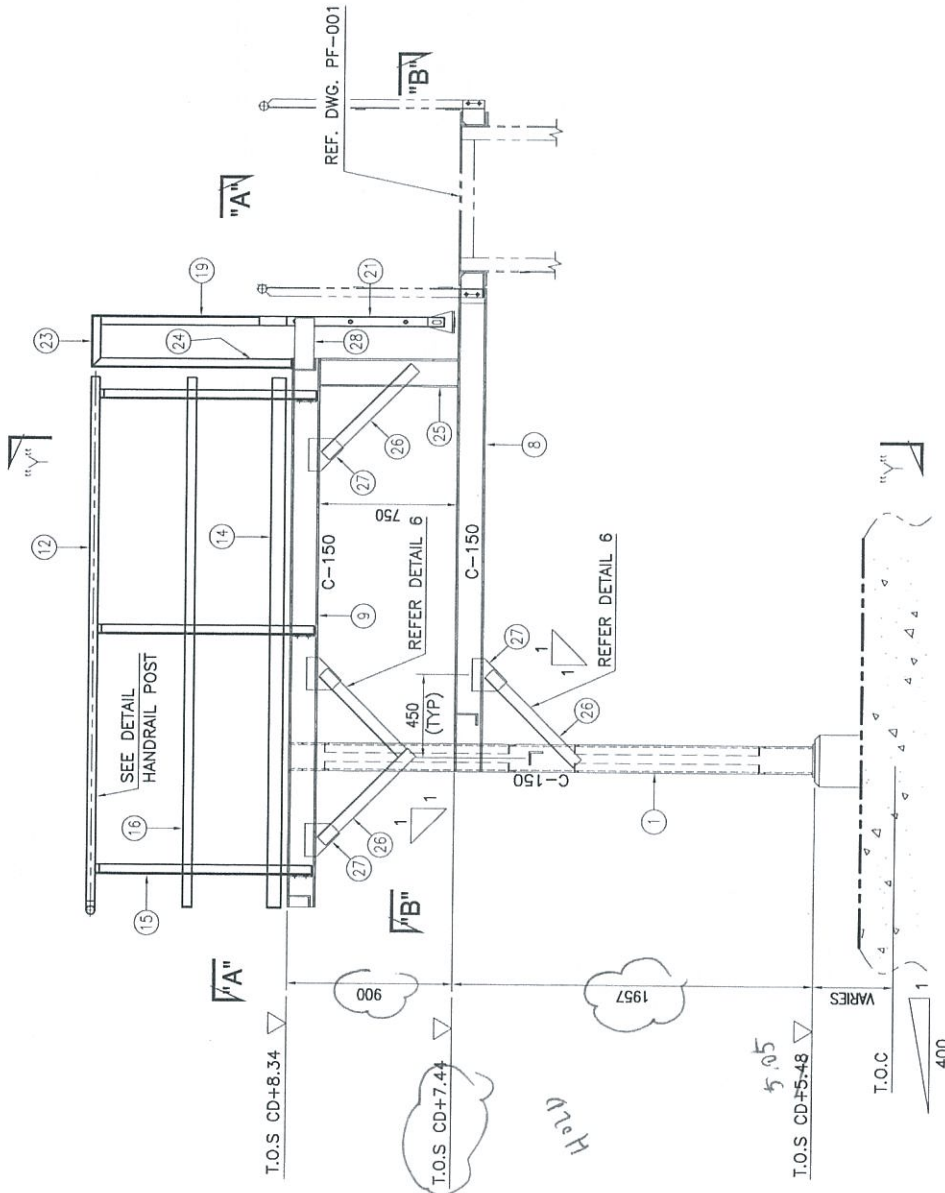
OPERATING PLATFORM - (TYPE-7)



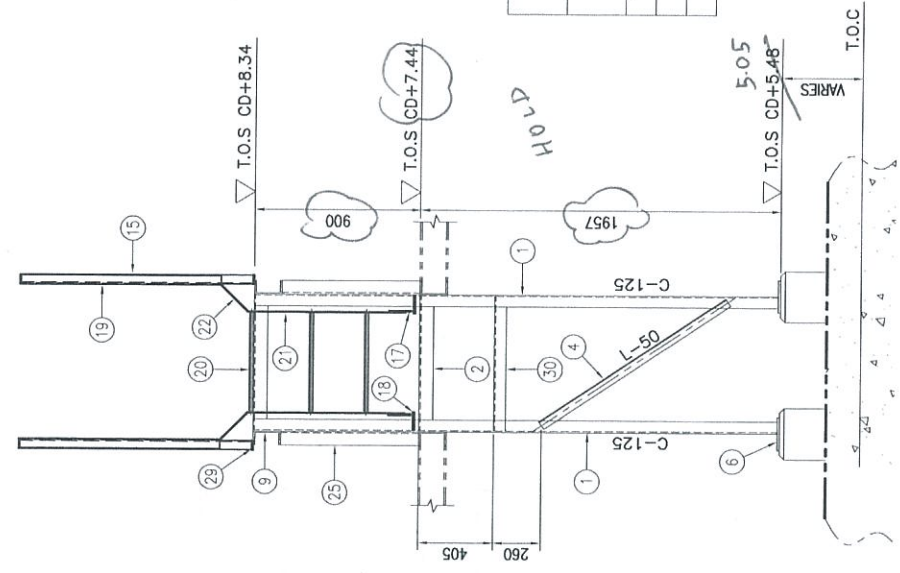
SECTION "A" - "A"
OPERATING PLATFORM AT T.O.S CD+8.34
SCALE 1:20



SECTION "B" - "B"
OPERATING PLATFORM AT T.O.S CD+7.44
SCALE 1:20



ELEVATION
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHTING (1 SET)
1	LEG - C150 x 75 x 91 x 2845L	A36 OR EQ.	2	136.6
2	SUPPORT - C125 x 65 x 61 x 750L	A36 OR EQ.	6	60.3
3	CLEAT - 135 x 120 x 91	A36 OR EQ.	4	4.5
4	BRACING - L50 x 50 x 61 x 990L	A36 OR EQ.	4	17.5
5	BASE PLATE - 180 x 180 x 121	A36 OR EQ.	2	6.1
6	FLOOR GRATING - 2490 x 880 x 25f	A36 OR EQ.	1	64.6
7	FLOOR GRATING - 2366 x 880 x 25f	A36 OR EQ.	1	61.4
8	FRAME - C150 x 75 x 6.51 x 2700L	A36 OR EQ.	2	100.4
9	FRAME - C150 x 75 x 6.51 x 2510L	A36 OR EQ.	2	93.4
10	FRAME - C150 x 75 x 6.51 x 750L	A36 OR EQ.	1	14.0
11	90° SR ELBOW - Ø1 1/2 x SCH 40	SGP	2	3.8
12	HAND RAIL - Ø1 1/2 x SCH 40 x 2403L	SGP	2	16.3
13	HAND RAIL - Ø1 1/2 x SCH 40 x 835L	SGP	1	2.8
14	TOE PLATE - FB75 x 61 x 2888L	A36 OR EQ.	2	20.4
15	STANCHION - L50 x 50 x 61 x 1176L	A36 OR EQ.	6	31.2
16	MID RAIL - FB50 x 61 x 2888L	A36 OR EQ.	2	13.6
17	CLEAT - 100 x 120 x 91	A36 OR EQ.	2	1.7
18	CLEAT - 120 x 135 x 91	A36 OR EQ.	2	2.3
19	STRINGER - L50 x 50 x 61 x 1092L	A36 OR EQ.	2	9.7
20	RUNG - RB Ø19 x 556L	A36 OR EQ.	3	3.7
21	STRINGER - FB50 x 81 x 856L	A36 OR EQ.	2	5.4
22	STRINGER - FB50 x 81 x 211L	A36 OR EQ.	2	1.3
23	STRINGER - L50 x 50 x 61 x 281L	A36 OR EQ.	2	1.8
24	STRINGER - L50 x 50 x 61 x 1085L	A36 OR EQ.	2	9.6
25	SUPPORT - C150 x 75 x 6.51 x 750L	A36 OR EQ.	2	28.0
26	SUPPORT - L65 x 65 x 61 x 685L	A36 OR EQ.	8	32.4
27	GUSSET PLATE - 177 x 189 x 91	A36 OR EQ.	8	19.0
28	CLEAT - 275 x 100 x 81	A36 OR EQ.	2	3.5
29	PAD PLATE - 55 x 55 x 91	A36 OR EQ.	2	0.4
30	BRACING - L50 x 50 x 61 x 735L	A36 OR EQ.	1	3.3
TOTAL				769.0

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

OPERATING PLATFORM	
DESCRIPTION	QTY.
TYPE 7-LPS-301D/SSOP	1
TOTAL REQ'D = 1	

PROJECT GENERAL ARRANGEMENT AT LPS-301
MASTER PLAN FOR PHASE-1
DWG NO. []

PROJECT TITLE:
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENERANG
DIALOG INDEPENDENT TERMINALS SDN. BHD.

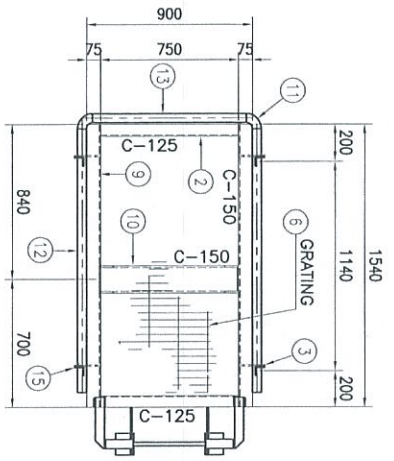
CONSULTANT:
DIALOG E & C SDN. BHD. (18329-4)
121, BLOK G, PULAU JAMANSARA 1,
NO. 9, JALAN 16/11, 43300 PETALING JAYA, SELANGOR.

DRAWING TITLE:
LPS-301
NORTH/SOUTH SIDE OPERATING PLATFORM
(TYPE-7)

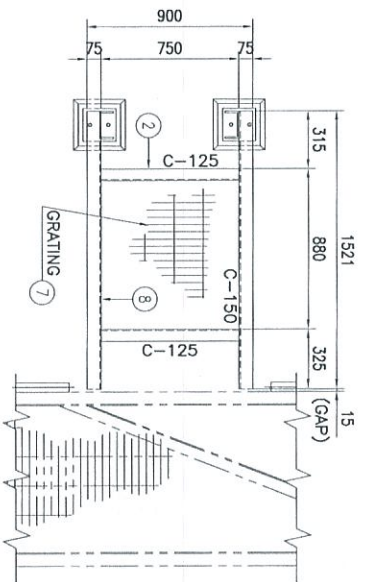
SCALE: AS SHOWN
DRAWN: PAM
DATE: 16/03/13
DWG. NO.: DH0008-ENG-C-PF-0224

CHECKED: ENKA
APPROVED: LUM
FILENAME: []
SHEET NO.: 01
1 OF 2

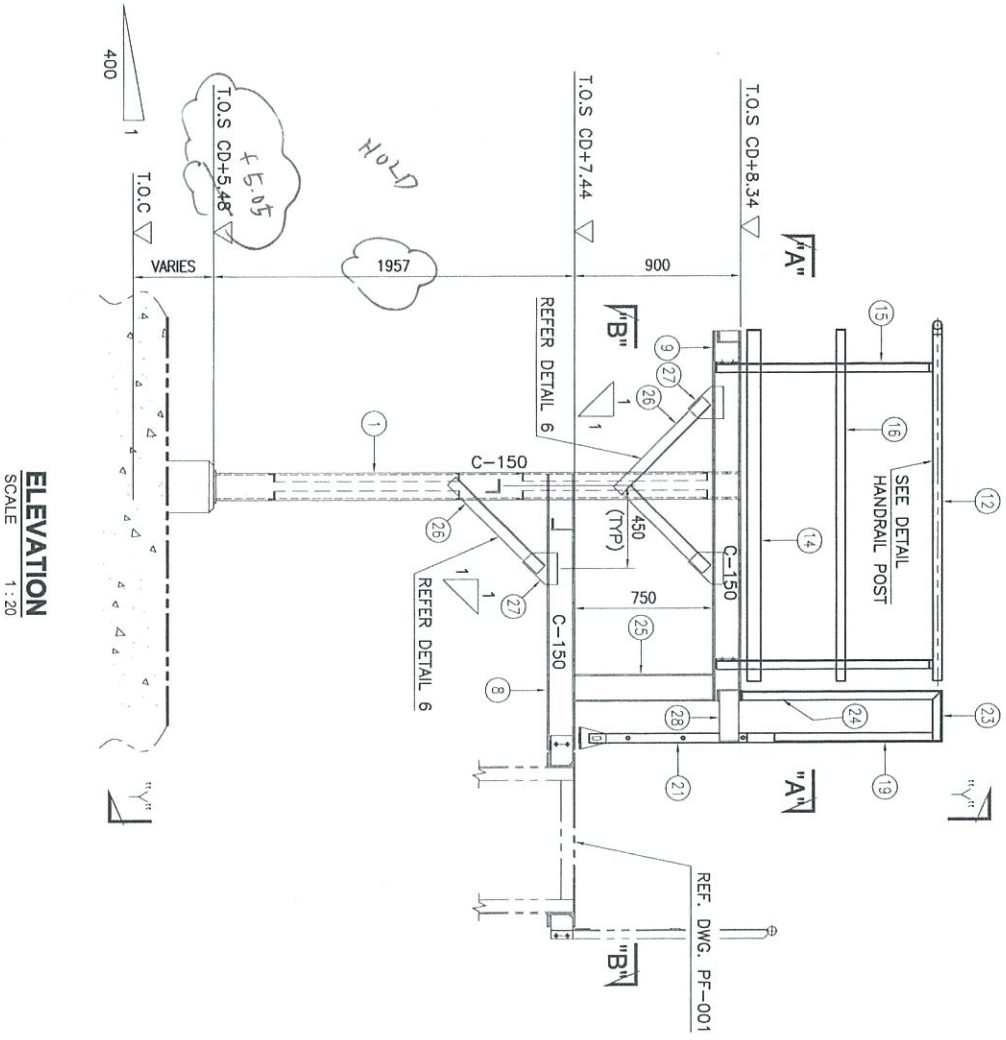
OPERATING PLATFORM - (TYPE-7A)



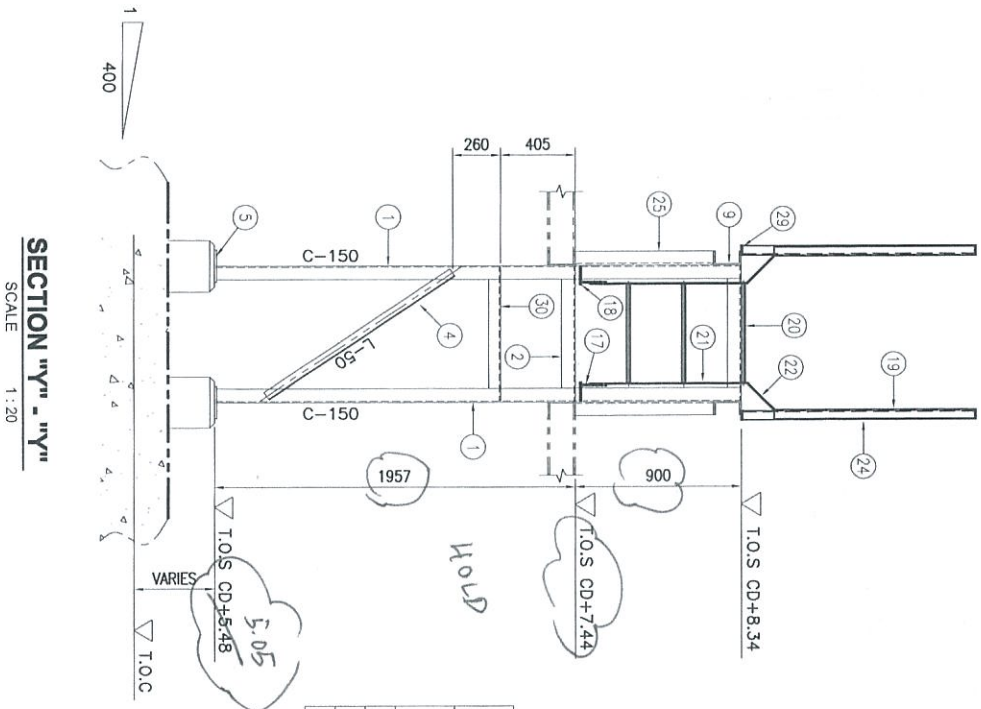
SECTION "A" - "A"
OPERATING PLATFORM AT T.O.S CD+8.34
SCALE 1:20



SECTION "B" - "B"
OPERATING PLATFORM AT T.O.S CD+7.44
SCALE 1:20



ELEVATION
SCALE 1:20



SECTION "Y" - "Y"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG) (1 SET)
1	LEG - C150 x 75 x 91 x 2845L	A36 OR EQ.	2	136.6
2	SUPPORT - C125 x 65 x 61 x 750L	A36 OR EQ.	4	40.2
3	CLEAT - 135 x 120 x 91	A36 OR EQ.	4	4.5
4	BRACING - L50 x 50 x 61 x 970L	A36 OR EQ.	4	17.5
5	BASE PLATE - 180 x 180 x 121	A36 OR EQ.	2	6.1
6	FLOOR GRATING - 1520 x 880 x 251	A36 OR EQ.	1	39.5
7	FLOOR GRATING - 1488 x 880 x 251	A36 OR EQ.	1	38.6
8	FRAME - C150 x 75 x 6.51 x 1521L	A36 OR EQ.	2	56.6
9	FRAME - C150 x 75 x 6.51 x 1540L	A36 OR EQ.	2	57.3
10	FRAME - C150 x 75 x 6.51 x 750L	A36 OR EQ.	1	14.0
11	90° SR ELBOW - Ø1½ x SCH 40	SGP	2	3.8
12	HAND RAIL - Ø1½ x SCH 40 x 1445L	SGP	2	9.8
13	HAND RAIL - Ø1½ x SCH 40 x 835L	SGP	1	2.8
14	TOE PLATE - FB75 x 61 x 1920L	A36 OR EQ.	2	13.6
15	STANCHION - L50 x 50 x 61 x 1176L	A36 OR EQ.	4	20.8
16	MID RAIL - FB50 x 61 x 1920L	A36 OR EQ.	2	9.0
17	CLEAT - 100 x 120 x 91	A36 OR EQ.	2	1.7
18	CLEAT - 120 x 135 x 91	A36 OR EQ.	2	2.3
19	STRINGER - L50 x 50 x 61 x 1092L	A36 OR EQ.	2	9.7
20	RUNG - R8 Ø19 x 556L	A36 OR EQ.	3	3.7
21	STRINGER - FB50 x 81 x 856L	A36 OR EQ.	2	5.4
22	STRINGER - FB50 x 81 x 211L	A36 OR EQ.	2	1.3
23	STRINGER - L50 x 50 x 61 x 281L	A36 OR EQ.	2	1.8
24	STRINGER - L50 x 50 x 61 x 1085L	A36 OR EQ.	2	9.6
25	SUPPORT - C150 x 75 x 6.51 x 750L	A36 OR EQ.	2	28.0
26	SUPPORT - L45 x 65 x 61 x 689L	A36 OR EQ.	6	24.3
27	GUSSET PLATE - 177 x 189 x 91	A36 OR EQ.	6	14.25
28	CLEAT - 275 x 100 x 81	A36 OR EQ.	2	3.5
29	PAD PLATE - 55 x 55 x 91	A36 OR EQ.	2	0.4
30	BRACING - L50 x 50 x 61 x 735L	A36 OR EQ.	1	3.3
TOTAL				590.0

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.

OPERATING PLATFORM	QTY.
TYPE 7A-LPS-301D/NSOP	2
TOTAL REQ'D =	2

NO.	REVISION	DATE	BY	CHK	APP
1	ISSUED FOR APPROVAL	18/07/13	DM	DM	
2	ISSUED FOR CONSTRUCTION	18/07/13	DM	DM	

PROJECT TITLE:
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

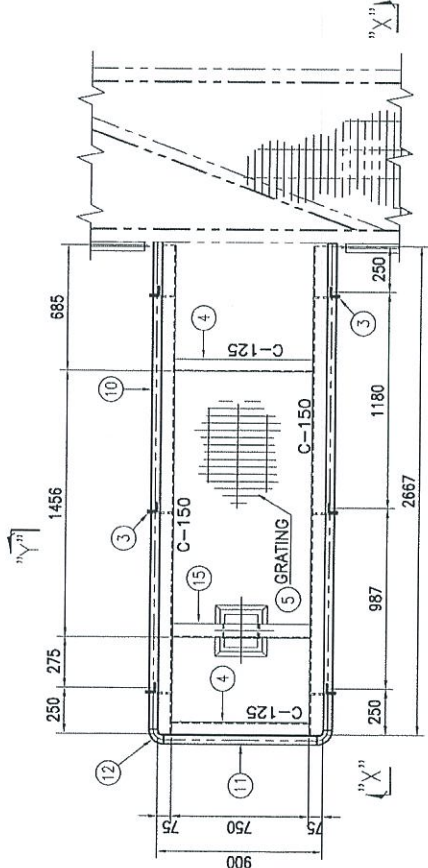
PROJECT OWNER:
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT:
DIALOG E & C SDN. BHD. (18230-0)

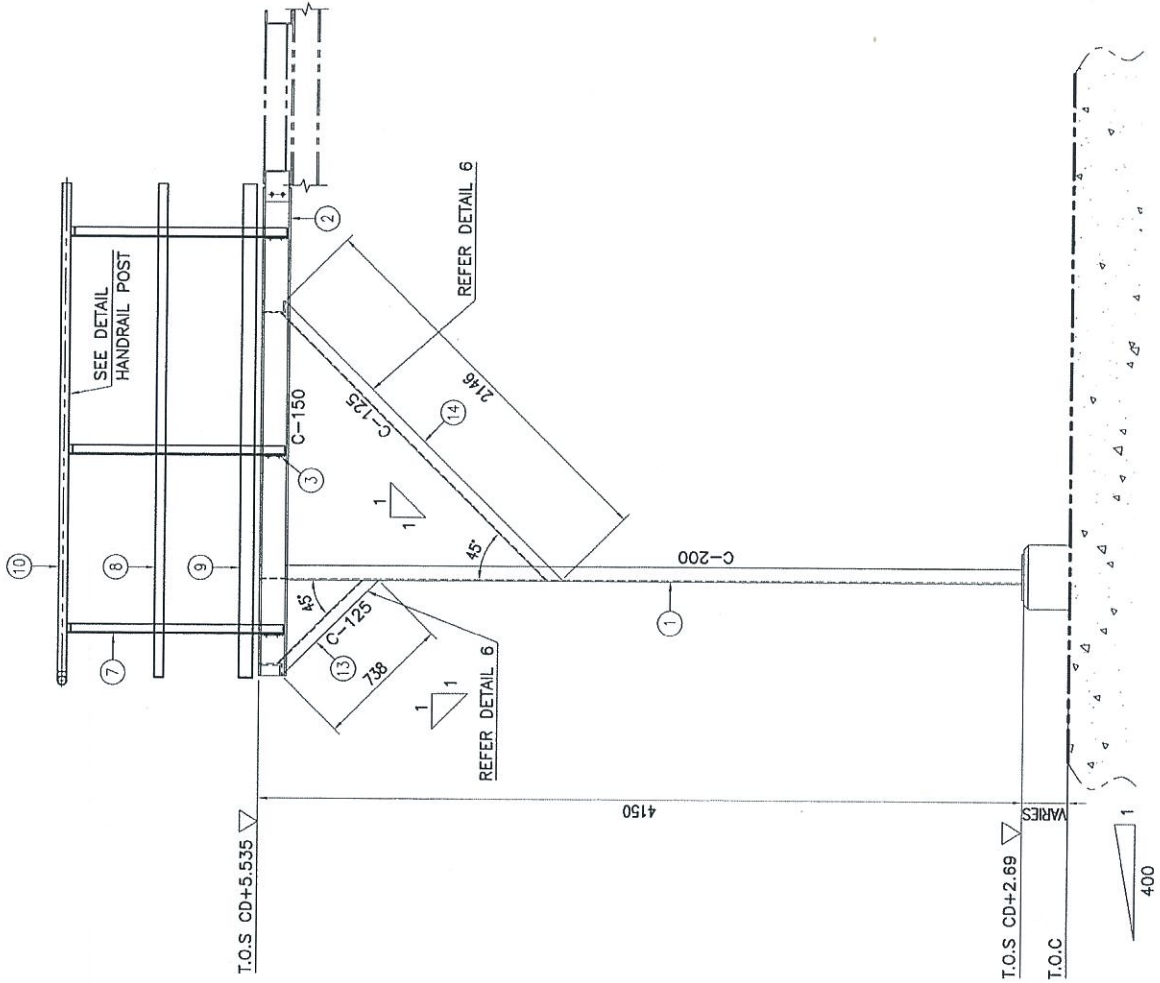
DRAWING TITLE:
LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-7A)

SCALE	CHECKED	DATE	FILE NAME	SHEET NO.	REV.
AS SHOWN	DM	18/07/13		1 of 2	0

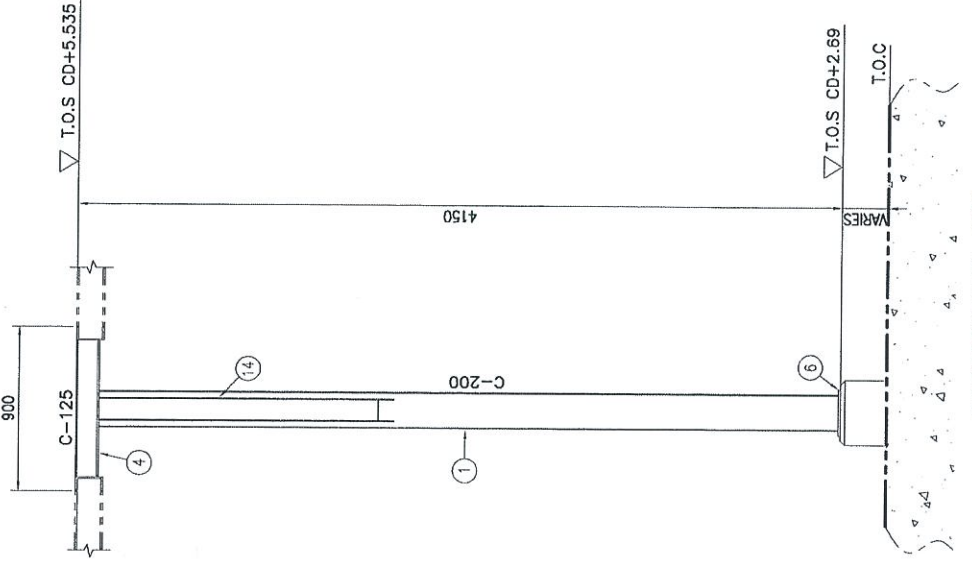
OPERATING PLATFORM - (TYPE-8)



PLAN VIEW
OPERATING PLATFORM AT T.O.S CD + 5.535
 SCALE 1:20



VIEW "X"- "X"
 SCALE 1:20



SECTION "Y" - "Y"
 SCALE 1:20

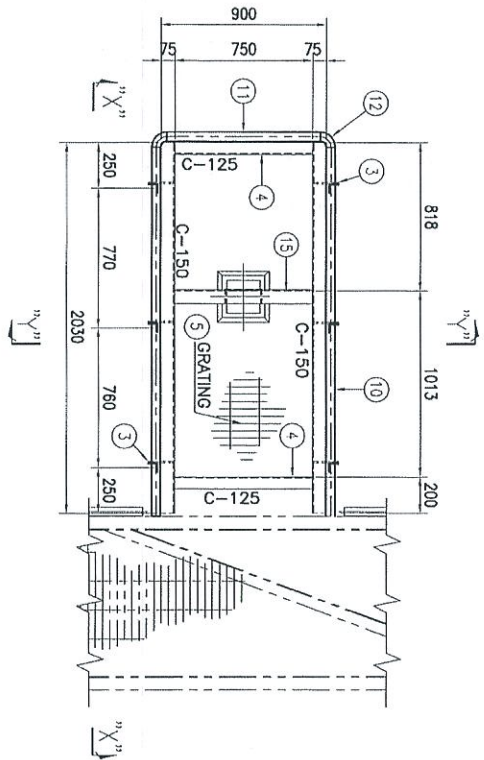
OPERATING PLATFORM	
DESCRIPTION	QTY.
TYPE 8-LPS-301P/SSOP	10
TOTAL REQ'D = 10	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	LEG - C200 x 80 x 7.51 x 4138	A36 OR EQ.	1	101.8
2	FRAME - C150 x 75 x 6.51 x 2667L	A36 OR EQ.	2	99.2
3	CLEAT - 135 x 120 x 91	A36 OR EQ.	6	6.9
4	FRAME - C125 x 65 x 61 x 750L	A36 OR EQ.	2	20.1
5	FLOOR GRATING - 2647 x 880L x 251	A36 OR EQ.	1	68.7
6	BASE PLATE - 255 x 255 x 121	A36 OR EQ.	1	6.1
7	STANCHION - L50 x 50 x 61 x 1176L	A 36 OR EQ.	6	31.3
8	MID RAIL - FB50 x 61 x 2700L	A36 OR EQ.	2	12.7
9	TOE PLATE - FB75 x 61 x 2700L	A36 OR EQ.	2	19.1
10	HAND RAIL - Ø1½ x SCH 40 x 2658L	SGP	2	18.0
11	HAND RAIL - Ø1½ x SCH 40 x 835L	SGP	1	2.8
12	90° SR ELBOW - Ø1½ x SCH 40	SGP	2	3.8
13	SUPPORT - C125 x 65 x 61 x 738L	A 36 OR EQ.	1	9.9
14	SUPPORT - C125 x 65 x 61 x 2146L	A 36 OR EQ.	1	28.8
15	FRAME - C150 x 75 x 6.51 x 750L	A36 OR EQ.	1	14.0
TOTAL				443.2

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS D1.1.

PROJECT NO. : 1774	PROJECT TITLE : PPAK GENERAL ARRANGEMENT AT LPS-301				
DWG NO. : 0208-08-01-PF-0201-01-01	DWG TITLE : MOTOR FOOT PLAN FOR PHOS-1				
REFERENCE DRAWINGS					
NO.	DESCRIPTION	BY	CHK	APPR.	DATE
1	ISSUED FOR APPROVAL	MM	MM	MM	MM/DD/13
2	ISSUED FOR COMMENTS	MM	MM	MM	MM/DD/13
PROJECT TITLE :					
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG					
PROJECT OWNER :					
DIALOG INDEPENDENT TERMINALS SDN. BHD.					
CONSULTANT :					
DIALOG E & C SDN. BHD. (189280-01)					
108, BLOK C, PRILEO DAMANSARA 1, NO. 7, JALAN 16/11, 4300 PENERANG JAYA, SELANGOR.					
DRAWING TITLE :					
LPS-301 NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-8)					
SCALE :	AS SHOWN	CHECKED :	ERKA		
DRAWN :	PMW	APPROVED :	LWM		
DATE :	18/03/13	FILENAME :		(A1)	
DWG. NO. :	DH0008-ENG-C-PF-0225	SHT. NO.	REV	1 OF 2 0	

OPERATING PLATFORM - (TYPE-8A)

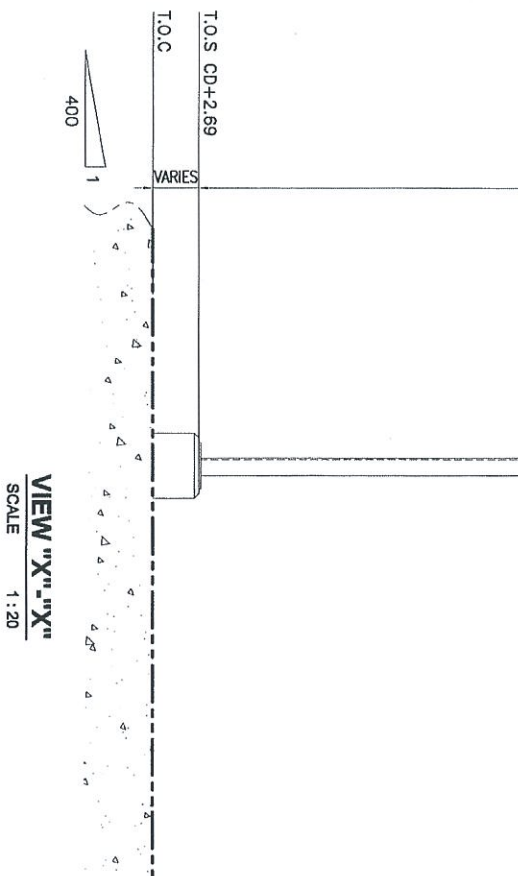
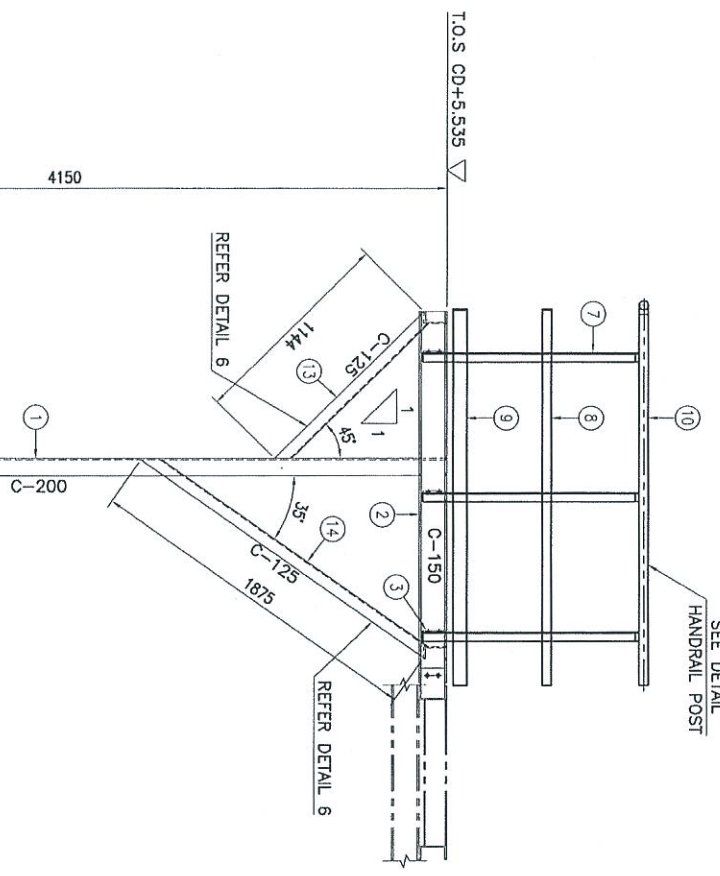


PLAN VIEW
OPERATING PLATFORM AT T.O.S CD + 5.535
SCALE 1 : 20

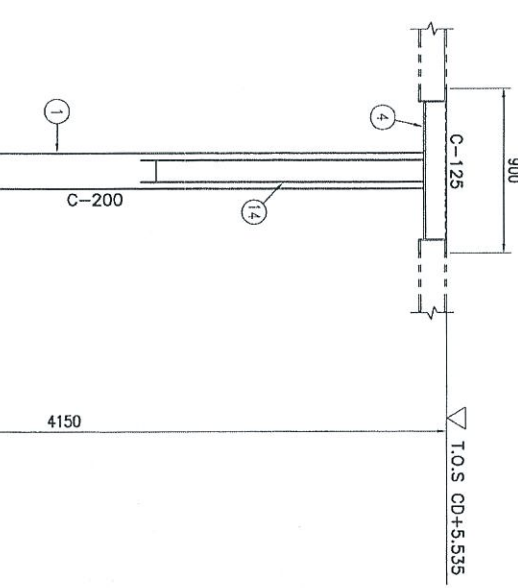
DESCRIPTION	QTY.
OPERATING PLATFORM	
TYPE 8A-LPS-301P/SSOP	2
TOTAL REQ'D = 2	

BILL OF MATERIALS (ONE (1) SET OF PLATFORM)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. 1 SET)
1	LEG - C200 x 80 x 7.51 x 4138	A36 OR EQ.	1	101.8
2	FRAME - C150 x 75 x 6.51 x 2030L	A36 OR EQ.	2	75.5
3	CLEAT - 135 x 120 x 91	A36 OR EQ.	6	6.9
4	FRAME - C125 x 65 x 61 x 750L	A36 OR EQ.	2	20.1
5	FLOOR GRATING - 2010 x 880L x 251	A36 OR EQ.	1	52.2
6	BASE PLATE - 255 x 255 x 121	A36 OR EQ.	1	6.1
7	STANCHION - L50 x 50 x 61 x 1174L	A36 OR EQ.	6	31.3
8	MID RAIL - FB50 x 61 x 2060L	A36 OR EQ.	2	9.7
9	TOE PLATE - FB75 x 61 x 2060L	A36 OR EQ.	2	14.6
10	HAND RAIL - Ø1 1/2 x SCH 40 x 2658L	SGP	2	18.0
11	HAND RAIL - Ø1 1/2 x SCH 40 x 835L	SGP	1	2.8
12	90° SR ELBOW - Ø1 1/2 x SCH 40	SGP	2	3.8
13	SUPPORT - C125 x 65 x 61 x 1144L	A36 OR EQ.	1	15.3
14	SUPPORT - C125 x 65 x 61 x 1530L	A36 OR EQ.	1	20.5
15	FRAME - C150 x 75 x 6.51 x 750L	A36 OR EQ.	1	14.0
TOTAL				392.6

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.



VIEW "X-X"
SCALE 1 : 20



SECTION "Y-Y"
SCALE 1 : 20

NO.	ISSUED FOR APPROVAL	DATE	BY	CHK	DATE
1	ISSUED FOR APPROVAL	18/03/13	AW	AW	18/03/13
2	ISSUED FOR COMMENTS	18/03/13	AW	AW	18/03/13
3	ISSUED FOR APPROVAL	18/03/13	AW	AW	18/03/13

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (181890-01)
NO. 4, SOKO 1/11, 4300 PENANG, SIA, SELANGOR.

DRAWING TITLE :
LPS-301
NORTH/SOUTH SIDE OPERATING PLATFORM (TYPE-8A)

SCALE : AS SHOWN

DRAWN : PAM

APPROVED : AW

DATE : 18/03/13

FILE NAME :

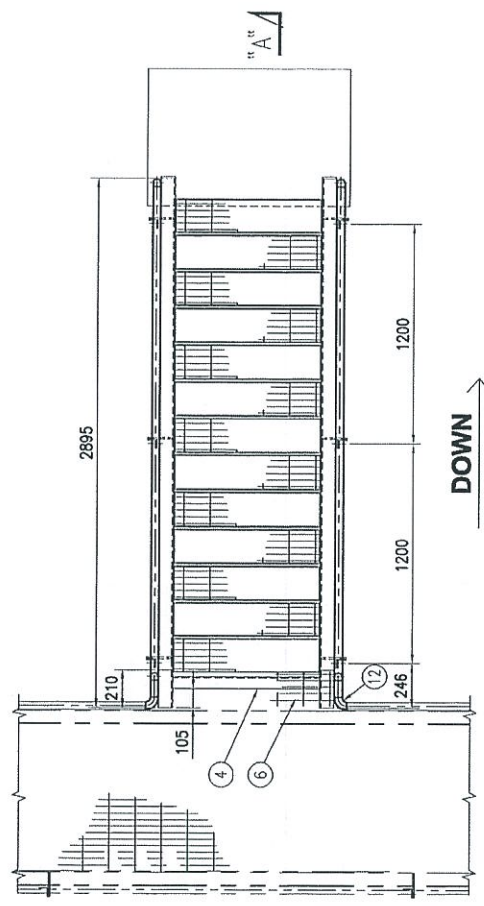
DRG. NO. : DP0008-ENG-C-PF-0225

REV. : 1 OF 2

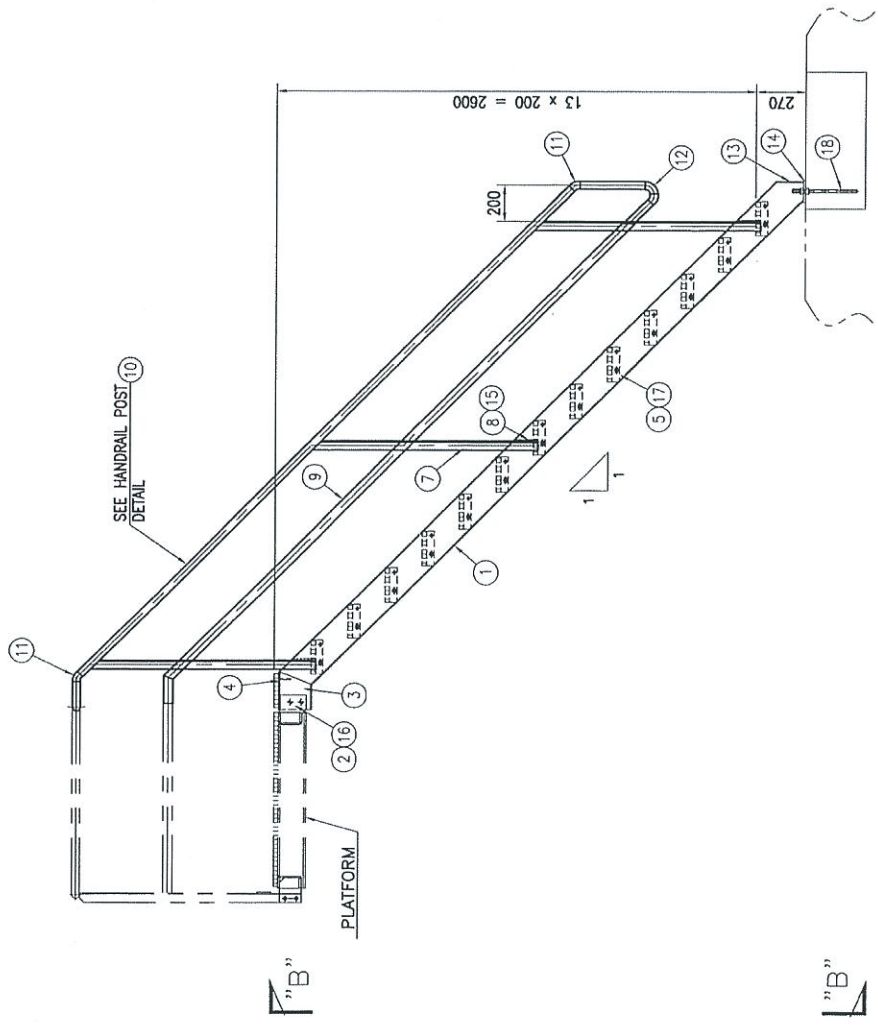
BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG)
1	STRINGER - C180 x 75 x 71 x 3835L	A36 OR EQ.	2	164.1
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	2	3.5
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	1	4.7
5	STAIR GRATING - 230 x 800 x 25f	A 36 OR EQ.	13	70.6
6	FLOOR GRATING - 190x 930 x 25f	A36 OR EQ.	1	5.2
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	6	32.7
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	6	6.8
9	MID RAIL- FB 50 x 61 x 7000L	A36 OR EQ.	1 LOT	16.5
10	HANDRAIL PIPE 1-1/4" SCH-40 x 9090L	SGP	1 LOT	30.7
11	ELBOW 45° 1-1/4"	SGP	6	0.9
12	ELBOW 90° LR 1-1/4"	SGP	4	1.0
13	END PLATE - 150 x 75 x 101	A36 OR EQ.	2	1.8
14	BASE PLATE - 125 x 125 x 121	A36 OR EQ.	2	2.5
15	BOLT & NUT C/W 2X WASHER M16 x 75L	GR.8.8 HDG	12	-
16	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8 HDG	4	-
17	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8 HDG	52	-
18	ANCHOR BOLT M20 x 350L	HILTI ANCHOR	4	-
	TOTAL			350.0

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

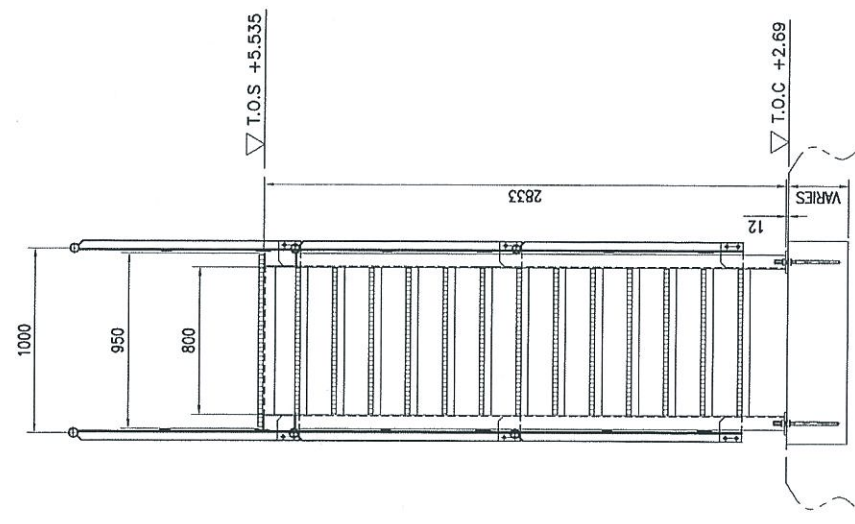
STAIRWAY	
DESCRIPTION	QTY.
TYPE 1-LPS-301S/AS	3
TYPE 1-LPS-301P/AS	1
TOTAL REQ'D = 4	



PLAN VIEW
SCALE 1:20



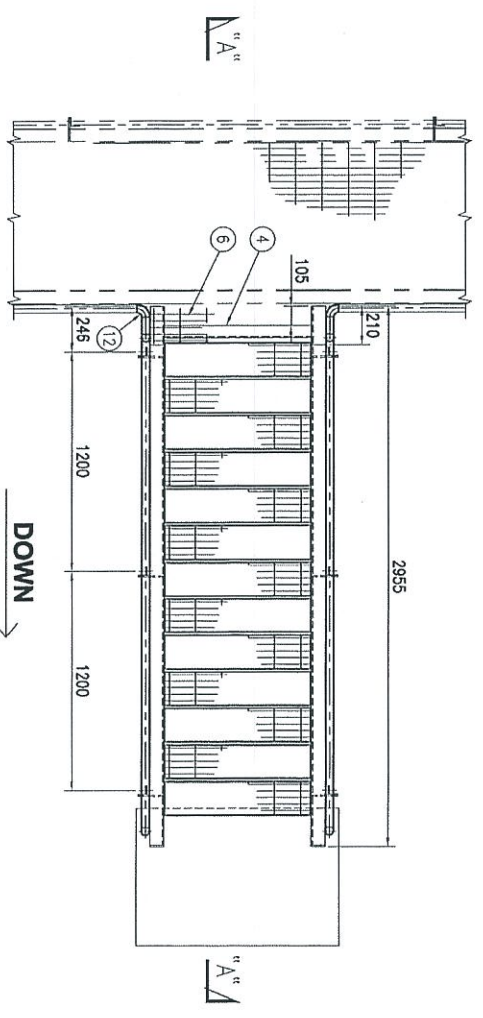
SECTION "A" - "A"
SCALE 1:20



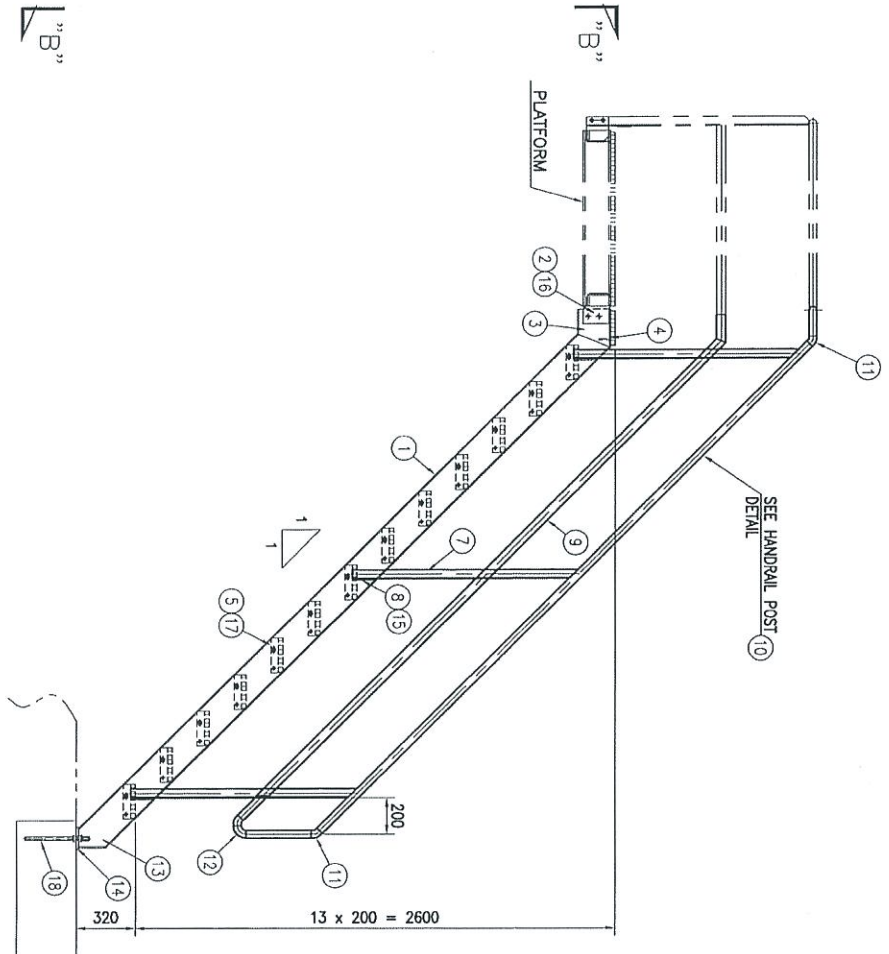
SECTION "B" - "B"
SCALE 1:20

PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT Pengerang
 PROJECT OWNER : DIALOG INDEPENDENT TERMINALS SDN. BHD.
 CONSULTANT : DIALOG & C SDN. BHD. (18389-U)
 DRAWING TITLE : LPS-301 STAIRWAY DETAIL (TYPE-1A)
 SCALE : AS SHOWN
 CHECKED : EMOA
 DRAWN : ZAL
 APPROVED : LHM
 DATE : 09/02/13
 PREPARED :
 Dwg. No. :
 Title :
 Reference Drawings :
 Issued for Approval :
 Issued for Comments :
 Project Title :
 Project Owner :
 Consultant :
 Drawing Title :
 Scale :
 Checked :
 Drawn :
 Date :
 Dwg. No. :
 Title :
 Reference Drawings :
 Issued for Approval :
 Issued for Comments :
 Project Title :
 Project Owner :
 Consultant :
 Drawing Title :
 Scale :
 Checked :
 Drawn :
 Date :
 Dwg. No. :
 Title :
 Reference Drawings :
 Issued for Approval :
 Issued for Comments :

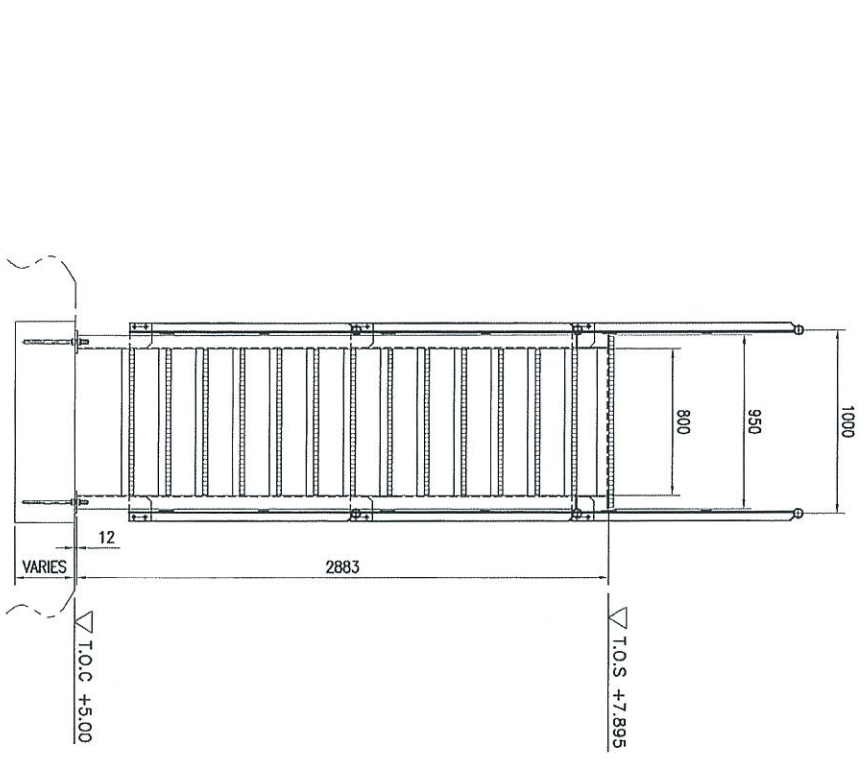
STAIRWAY DETAIL (TYPE 1A)
SCALE 1:20



PLAN VIEW
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

STAIRCASE DETAIL (TYPE 1)
SCALE 1:20

DESCRIPTION	QTY.
TYPE 1 - LPS-301D/AS	6
TOTAL REQ'D =	6

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (1 SET)
1	STRINGER - C180 x 75 x 71 x 390SL	A36 OR EQ.	2	167.1
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	2	3.5
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - 165 x 65 x 61 x 800L	A36 OR EQ.	1	4.7
5	STAIR GRATING - 230 x 800 x 251	A 36 OR EQ.	13	70.6
6	FLOOR GRATING - 190x 930 x 251	A36 OR EQ.	1	5.2
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	6	32.7
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	6	6.8
9	MID RAIL - F8 50 x 61 x 700L	A36 OR EQ.	1 LOT	16.5
10	HANDRAIL PIPE 1-1/4" SCH.40 x 9090L	SGP	1 LOT	30.7
11	ELBOW 45° 1-1/4"	SGP	6	0.9
12	ELBOW 90° LR 1-1/4"	SGP	4	1.0
13	END PLATE - 150 x 75 x 101	A36 OR EQ.	2	1.8
14	BASE PLATE - 125 x 125 x 121	A36 OR EQ.	2	2.5
15	BOLT & NUT C/W 2X WASHER M16 x 75L	GR.8.8 HDG	12	-
16	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8 HDG	4	-
17	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8 HDG	52	-
18	ANCHOR BOLT M20 x 350L	HILTI ANCHOR	4	-
TOTAL				353.0

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS:D1.1.
3. CUT TO SUIT

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (18328-U)
101, Block 9, PUSAT DAMANSARA 1,
NO. 9, JALAN 19/11, 47500 PUNJANG JAYA, SELANGOR.

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

DRAWING TITLE :
LPS-301
STAIRWAY DETAIL
(TYPE-1B)

SCALE : AS SHOWN
DRAWN : ZUL
DATE : 04/02/13
CHECKED : ENOK
APPROVED : UMI
REVISION : -

PROJECT NO. :
DHO008-ENG-C-PF-0226

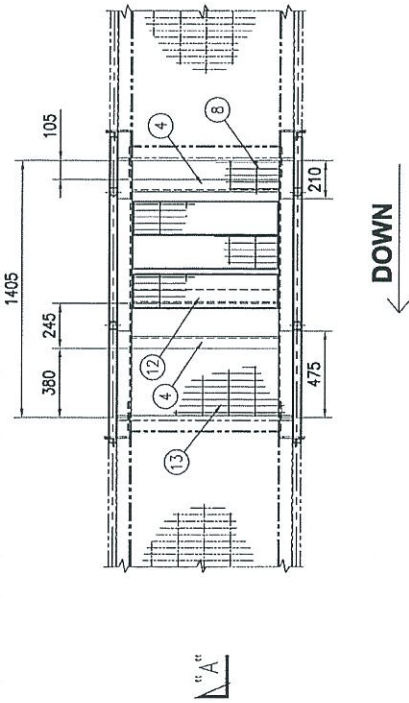
SHEET NO. / REV :
2 / 3 0

BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)

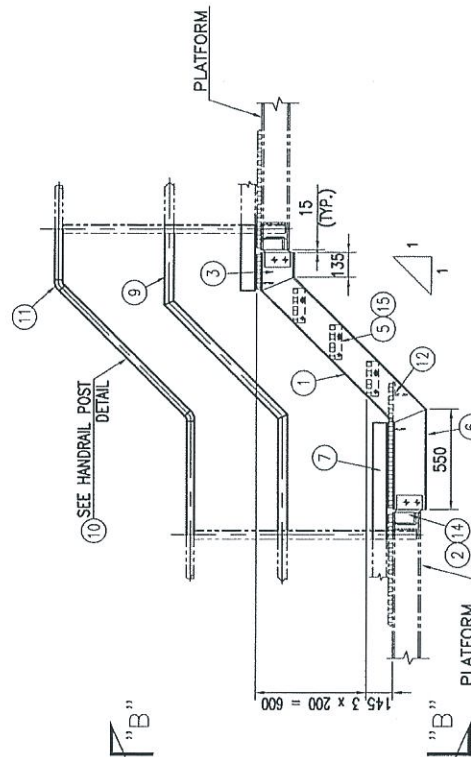
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	STRINGER - C180 x 75 x 71 x 1100L	A36 OR EQ.	2	47.1
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	4	7.0
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 91 x 800L	A36 OR EQ.	2	13.7
5	STAIR GRATING - 230 x 800 x 25F	A36 OR EQ.	3	16.3
6	SUPPORT - C180 x 75 x 71 x 550L	A36 OR EQ.	2	11.8
7	TOE PLATE - FB 75 x 61 x 705	A36 OR EQ.	2	5.0
8	FLOOR GRATING - 930 x 190 x 25F	A36 OR EQ.	1	4.4
9	MID RAIL - FB 50 x 61 x 2025L	A36 OR EQ.	2	13.4
10	HANDRAIL PIPE 1-1/4" SCH.40 x 1975	SGP	2	18.3
11	ELBOW 45° 1-1/4"	SGP	4	0.6
12	SUPPORT - L75 x 75 x 91 x 800L	A36 OR EQ.	1	5.5
13	FLOOR GRATING - 930 x 680 x 25F	A36 OR EQ.	1	18.7
14	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8 HDG	12	
15	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8 HDG	4	
TOTAL				170.8

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

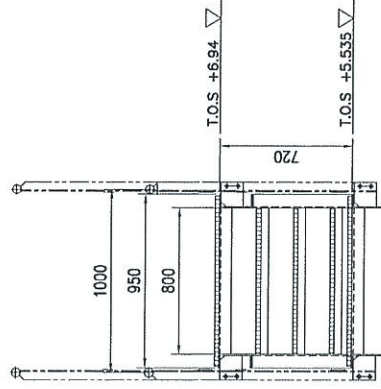
STAIRWAY	
DESCRIPTION	QTY.
TYPE 2 - LPS - 301D / AS	4
TOTAL REQ'D = 4	



PLAN VIEW
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



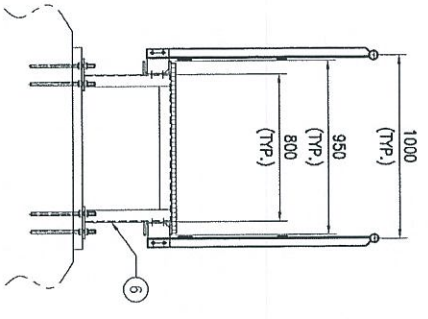
SECTION "B" - "B"
SCALE 1:20

STAIRWAY DETAIL (TYPE 2)
SCALE 1:20

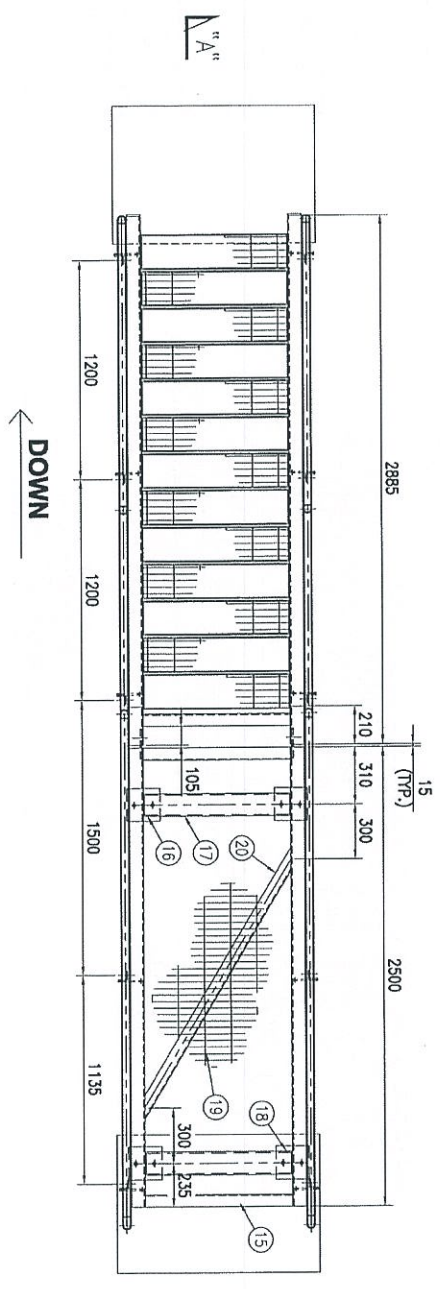
PROJECT NO. : 2008-06-24-001, SHE. 1-7	PROJECT TITLE : PPMG GENERAL ARRANGMENT AT LPS-301
DWG. NO. : 2008-06-24-001-Rev.1	MASTER PLAN FOR PMS-1
REFERENCE DRAWINGS	
ISSUED FOR APPROVAL	DATE : 03/07/13
ISSUED FOR COMMENTS	DATE : 03/07/13
PROJECT TITLE :	DATE :
PROJECT OWNER :	DATE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG	
PROJECT OWNER :	
DIALOG INDEPENDENT TERMINALS SDN. BHD.	
CONSULTANT :	
DIALOG	
DIALOG E & C SDN. BHD. (18228-U) 109, BLOCK 5, PHASE 1 DAMANSARA 1, NO. 9, JALAN 16/11, 45300 PETUNG JAYA, SELANGOR.	
DRAWING TITLE :	
LPS-301 STAIRWAY DETAIL (TYPE-2)	
SCALE : AS SHOWN	CHECKED : ENCA
DRAWN : ZAL	APPROVED : EMM
DATE : 08/03/13	REVISION :
DWG. NO. : DH0008-ENG-C-PF-0227	SHEET NO. : 1 OF 1

25	BOLT & NUT C/W 2X WASHER M16 x 75L	GR8.8 HDG	20	-
26	BOLT & NUT C/W 2X WASHER M20 x 85L	GR8.8 HDG	4	-
27	BOLT & NUT C/W 2X WASHER M12 x 40L	GR8.8 HDG	52	-
28	ANCHOR BOLT M20 x 350L	HILL ANCHOR	8	-
TOTAL			84	681.6

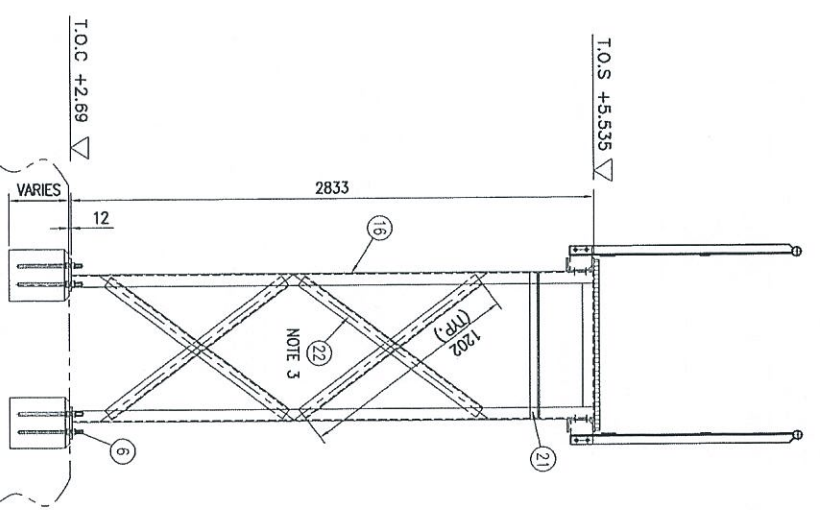
BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)				
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KGS) (1 SET)
1	STRINGER - C180 x 75 x 71 x 3833L	A36 OR EQ.	2	164.0
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	2	3.5
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	1	4.7
5	STAIR GRATING - 230 x 800 x 25t	A36 OR EQ.	13	70.6
6	BASE PLATE - 180 x 180 x 12t	A36 OR EQ.	4	12.2
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	10	54.5
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	10	11.3
9	MID RAIL - FB 50 x 61 x 12240L	A36 OR EQ.	1 LOT	28.9
10	HANDRAIL PIPE 1-1/4" SCH.40 x 15460L	SGP	1 LOT	52.3
11	ELBOW 45° 1-1/4"	SGP	6	0.9
12	ELBOW 90° LR 1-1/4"	SGP	6	1.4
13	TOE PLATE - FB 75 x 61 x 5450L	A36 OR EQ.	1 LOT	19.2
14	FRAME - C150 x 75 x 6.51 x 2500L	A36 OR EQ.	2	93.0
15	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	2	21.4
16	SUPPORT LEG - C125 x 65 x 61 x 2833L	A36 OR EQ.	2	75.9
17	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	2	21.4
18	SUPPORT LEG - C125 x 65 x 61 x 473L	A36 OR EQ.	2	12.7
19	FLOOR GRATING - 2705 x 930 x 25t	A36 OR EQ.	1	74.2
20	BRACING #1 - L65 x 65 x 61 x 1574L	A36 OR EQ.	1	9.3
21	SUPPORT - L75 x 75 x 91 x 788L	A36 OR EQ.	1	5.4
22	BRACING #2 - L65 x 65 x 61 x 1202L	A36 OR EQ.	4	28.4
23	END PLATE - 150 x 75 x 10t	A36 OR EQ.	2	1.8
24	BASE PLATE - 125 x 125 x 12t	A36 OR EQ.	2	2.9



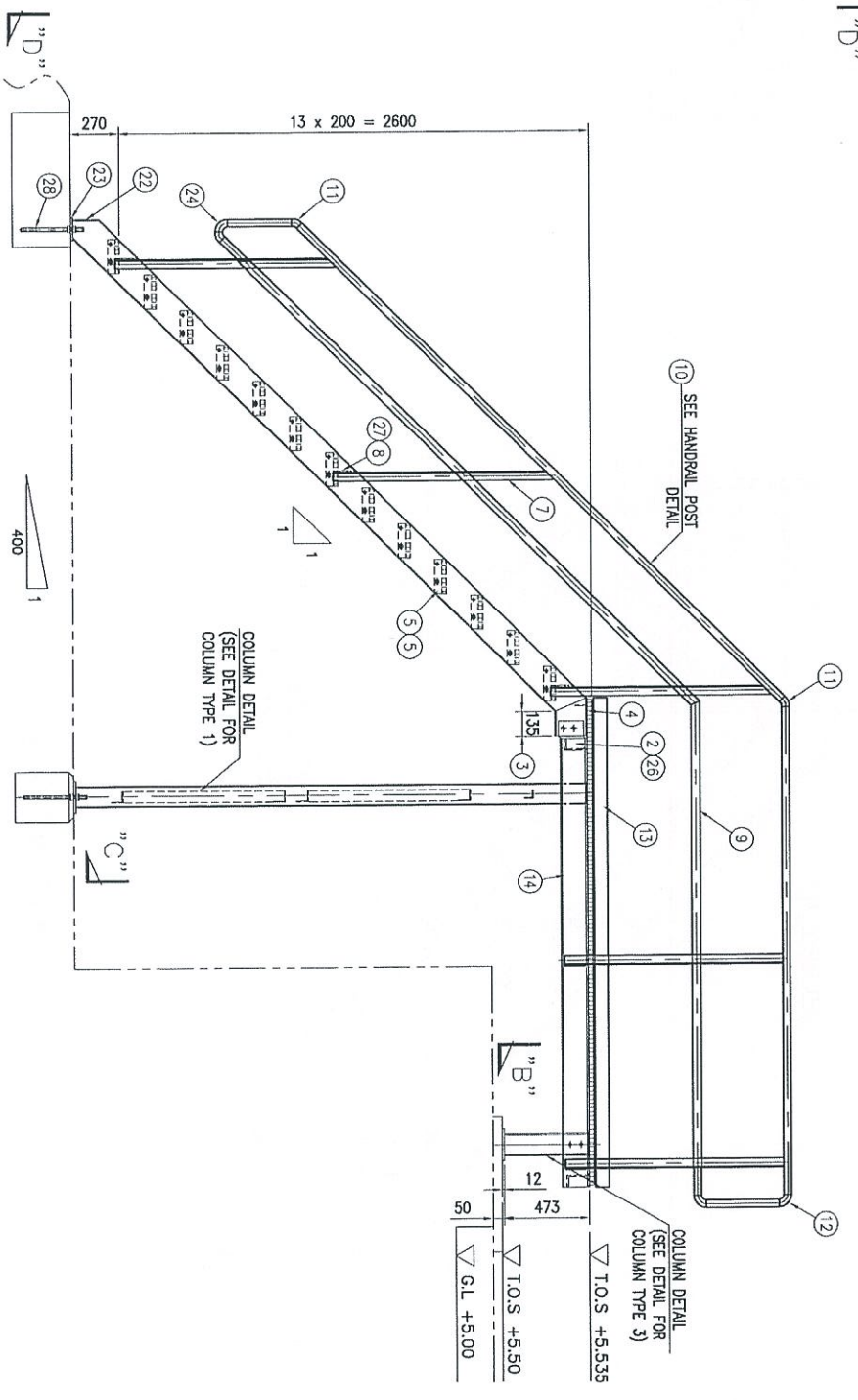
SECTION "B" - "B"
SCALE 1:20



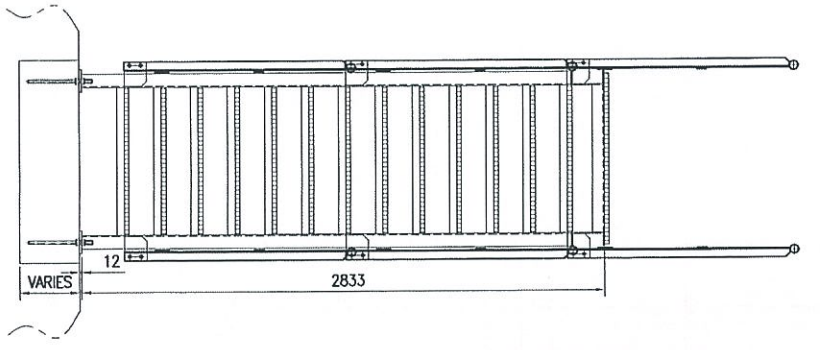
PLAN VIEW
SCALE 1:20



SECTION "C" - "C"
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20
STAIRWAY DETAIL (TYPE 3)
SCALE 1:20



SECTION "D" - "D"
SCALE 1:20

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

DESCRIPTION	QTY.
TYPE 3-LPS-301S/AS-A	2
TOTAL REQ'D =	2

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (187290-9)

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

DRAWING TITLE :
LPS-301 STAIRWAY DETAIL (TYPE-3)

SCALE : AS SHOWN
DATE : 09/03/13
DWG. NO. : DH0008-ENG-C-PF-0228

CHECKED : BOK
APPROVED : LAM

REVISIONS:

NO.	DESCRIPTION	BY	CHK	DATE
1	ISSUED FOR APPROVAL	ZIL	BOK	03/07/13
2	ISSUED FOR QUANTITIES	ZIL	BOK	18/07/13
3	REV.	CHK	APPR	18/07/13

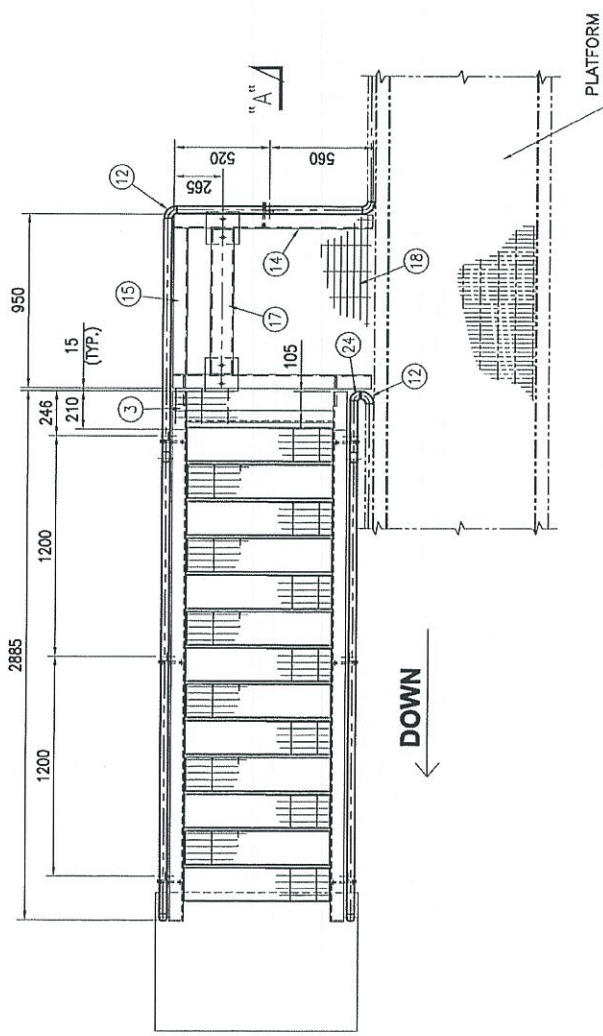
DRG. NO. : 1 OF 1 REV. : 0

BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)

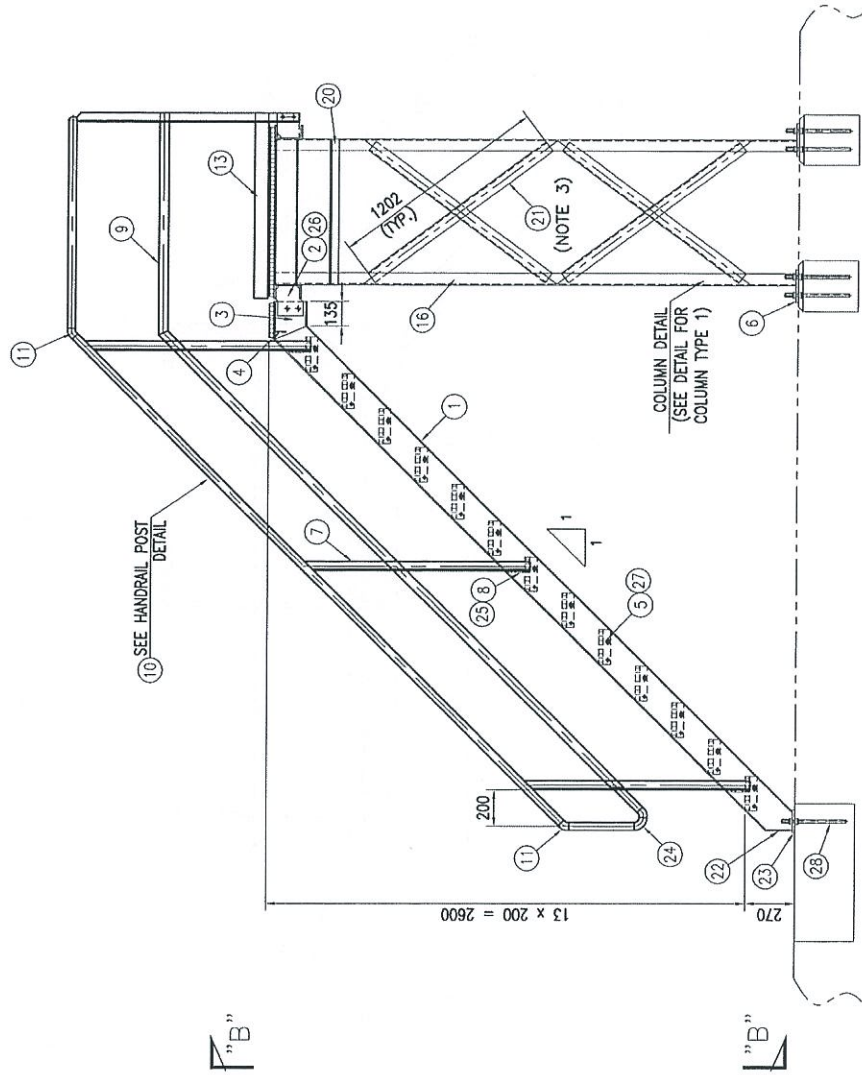
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	STRINGER - C180 x 75 x 71 x 3835L	A36 OR EQ.	2	164.1
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	2	3.5
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	1	6.8
5	STAIR GRATING - 230 x 800 x 251	A 36 OR EQ.	13	70.6
6	BASE PLATE - 180 x 180 x 121	A36 OR EQ.	2	6.1
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	7	38.1
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	7	7.9
9	MID RAIL - FB 50 x 61 x 940L	A36 OR EQ.	1 LOT	22.3
10	HANDRAIL PIPE 1-1/4" SCH.40 x 10169L	SGP	1 LOT	34.4
11	ELBOW 45° 1-1/4"	SGP	6	0.9
12	ELBOW 90° LR 1-1/4"	SGP	5	1.2
13	TOE PLATE - FB 75 x 61 x 2030L	A36 OR EQ.	1 LOT	7.2
14	FRAME - C150 x 75 x 631 x 1080L	A36 OR EQ.	2	20.1
15	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	1	10.7
16	SUPPORT LEG - C125 x 65 x 61 x 2833L	A36 OR EQ.	2	75.9
17	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	1	10.7
18	FLOOR GRATING - 1060 x 930 x 251	A 36 OR EQ.	1	29.1
19	FLOOR GRATING - 190 x 930 x 251	A 36 OR EQ.	1	5.2
20	SUPPORT - L75 x 75 x 91 x 788L	A36 OR EQ.	1	5.4
21	BRACING - L65 x 65 x 61 x 1202L	A36 OR EQ.	4	28.4
22	END PLATE - 150 x 75 x 101	A36 OR EQ.	2	1.8
23	REINFORCEMENT PAD - 125 x 125 x 121	A36 OR EQ.	2	2.9
24	ELBOW 90° SR 1-1/4"	SGP	1	0.16
25	BOLT & NUT C/W 2X WASHER M16 x 75L	GR.8.8 HDG	14	-
26	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8 HDG	4	-
27	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8 HDG	52	-
28	ANCHOR BOLT M20 x 350L	HILTI ANCHOR	8	-
TOTAL				562.5

NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

PROJECT OWNER :		DIALOG E & C SDN. BHD. (18282-4)	
CONSULTANT :		DIALOG E & C SDN. BHD. (18282-4) 108, BLOCK 5, PHILCO DAMANSARA 1, NO. 9, JALAN 16/11, 4550 PETUNG JAYA, SELANGOR.	
DRAWING TITLE :		LPS-301 STAIRWAY DETAIL (TYPE-5)	
SCALE :	AS SHOWN	CHECKED :	EDMA
DRAWN :	ZAL	APPROVED :	LAM
DATE :	06/03/13	FILENAME :	-
DWG. NO. :	DH0008-ENG-C-PF-0230	SHT. NO. :	01
		OF :	0

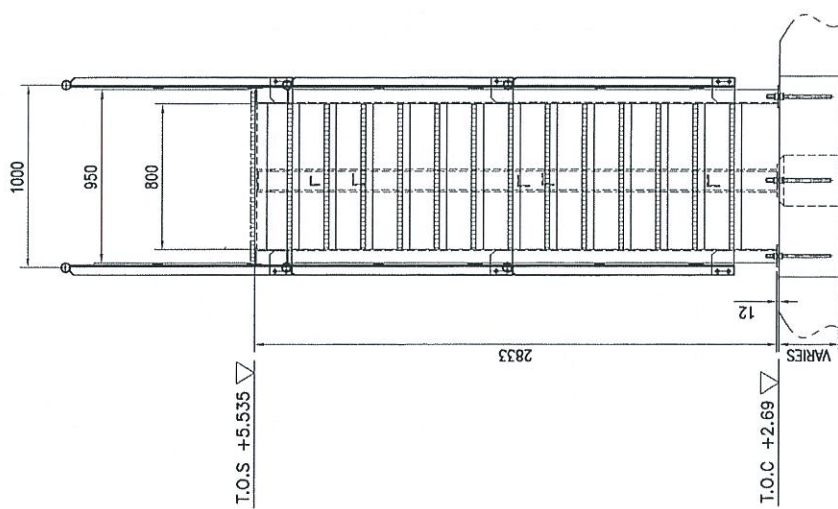


PLAN VIEW
SCALE 1:20



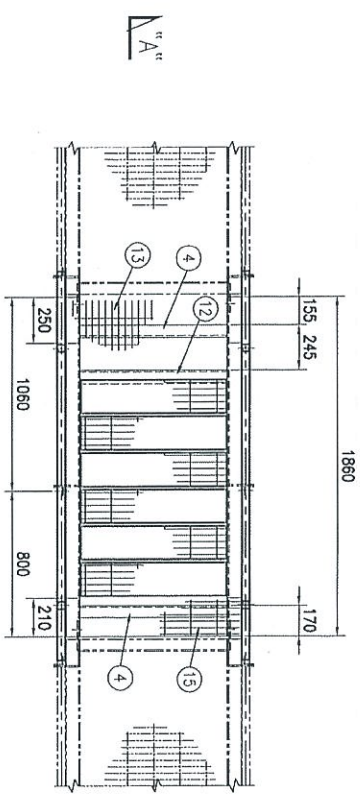
SECTION "A" - "A"
SCALE 1:20

STAIRWAY	
DESCRIPTION	QTY.
TYPE 5-LPS-301S/AS	1
TOTAL REQ'D = 1	



SECTION "B" - "B"
SCALE 1:20

STAIRWAY DETAIL (TYPE 5)
SCALE 1:20

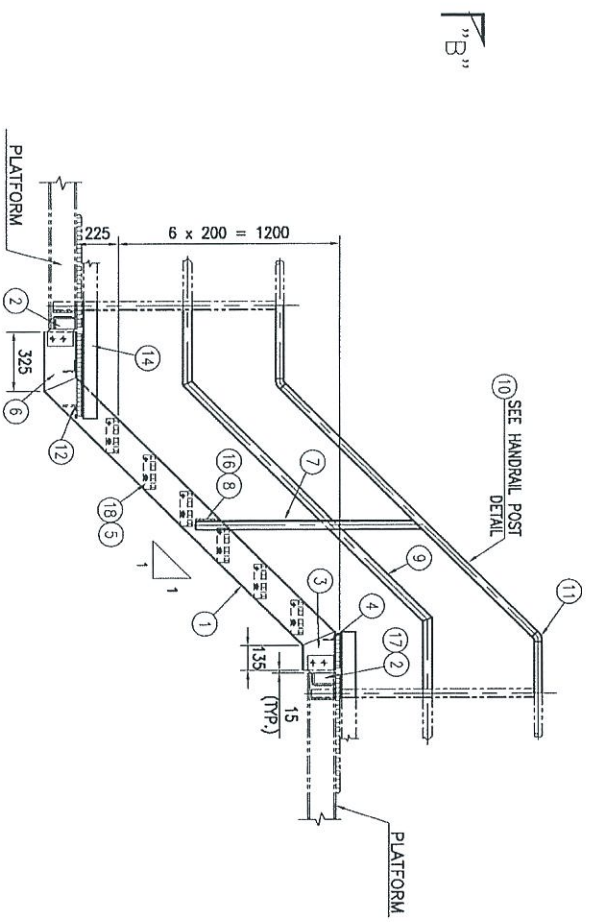


PLAN VIEW
SCALE 1 : 20

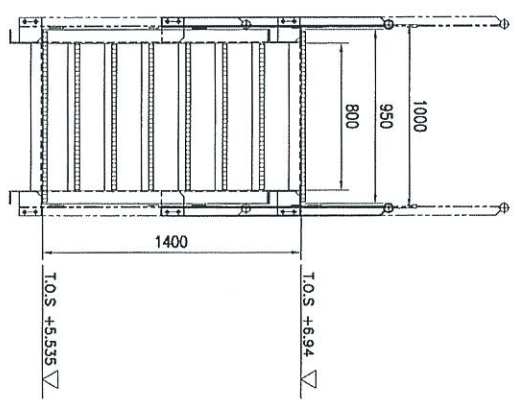
DESCRIPTION	QTY.
TYPE 6-LPS-301P/AS	1
TOTAL REQ'D = 1	

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. 1 SET)
1	SPRINGER - C180 x 75 x 71 x 205S.	A36 OR EQ.	2	88.0
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	4	7.0
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	2	9.5
5	STAIR GRATING - 230 x 800 x 25I	A36 OR EQ.	6	32.6
6	SUPPORT - C180 x 75 x 71 x 325L	A36 OR EQ.	2	14.0
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	2	10.9
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	2	2.3
9	MID RAIL - F8 50 x 61 x 5480L	A36 OR EQ.	1 LOT	13.0
10	HANDRAIL PIPE 1-1/4" SCH.40 x 5410	SGP	1 LOT	18.3
11	ELBOW 45° 1-1/4"	SGP	4	0.6
12	SUPPORT - L75 x 75 x 91 x 800L	A36 OR EQ.	1	5.5
13	FLOOR GRATING - 930 x 455 x 25I	A36 OR EQ.	1	11.0
14	TOE PLATE - F8 75 x 61 x 2010L	A36 OR EQ.	1 LOT	4.7
15	FLOOR GRATING - 930 x 190 x 25I	A36 OR EQ.	1	4.4
16	BOLT & NUT C/W 2X WASHER M16 x 75L	GR.8.8 HDG	4	-
17	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8 HDG	4	-
18	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8 HDG	24	-
TOTAL				230.8

NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 2. ALL WELDS TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT



SECTION "A" - "A"
SCALE 1 : 20



SECTION "B" - "B"
SCALE 1 : 20

STAIRWAY DETAIL (TYPE 6)
SCALE 1 : 20

NO.	DESCRIPTION	BY	CHK	DATE
1	ISSUED FOR APPROVAL	ZK	BM	02/07/13
2	ISSUED FOR COMMENTS	ZK	BM	02/07/13

PROJECT OWNER :
 DIALOG INDEPENDENT TERMINALS SDN. BHD.
 CONSISTENT :
 DIALOG E & C SDN. BHD. (18333-4)
 NO. 8, JALAN 14/11, KESAS RETENSI 2004, SELANGOR.
 DRAWING TITLE :
 LPS-301
 STAIRWAY DETAIL
 (TYPE-6)

SCALE :	CHECKED :	DATE :	FILE NAME :	SHT. NO.	REV.
AS SHOWN	BM	02/07/13		1 of 1	0
ZK	BM				

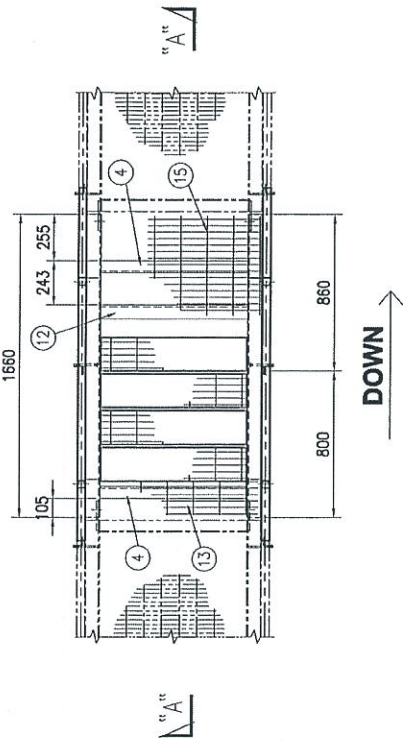
BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	STRINGER - C180 x 75 x 71 x 1630L	A36 OR EQ.	2	69.8
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	4	7.0
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	2	9.5
5	STAIR GRATING - 230 x 800 x 251	A 36 OR EQ.	5	34.2
6	SUPPORT - C180 x 75 x 71 x 425L	A36 OR EQ.	2	18.2
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	2	10.9
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	2	2.3
9	MID RAIL - FB 50 x 61 x 4900L	A36 OR EQ.	1 LOT	11.4
10	HANDRAIL PIPE 1-1/4" SCH.40 x 4780L	SGP	1 LOT	16.2
11	ELBOW 45° 1-1/4"	SGP	4	0.6
12	SUPPORT - L75 x 75 x 91 x 800L	A36 OR EQ.	2	11.0
13	FLOOR GRATING - 190 x 930 x 251	A 36 OR EQ.	1	5.2
14	TOE PLATE - FB 75 x 61 x 2220L	A 36 OR EQ.	1 LOT	7.8
15	FLOOR GRATING - 555 x 930 x 251	A 36 OR EQ.	1	13.4
16	BOLT & NUT C/W 2X WASHER M16 x 75L	GR.8.8 HDG	4	-
17	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8 HDG	4	-
18	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8 HDG	24	-
	TOTAL			226.7

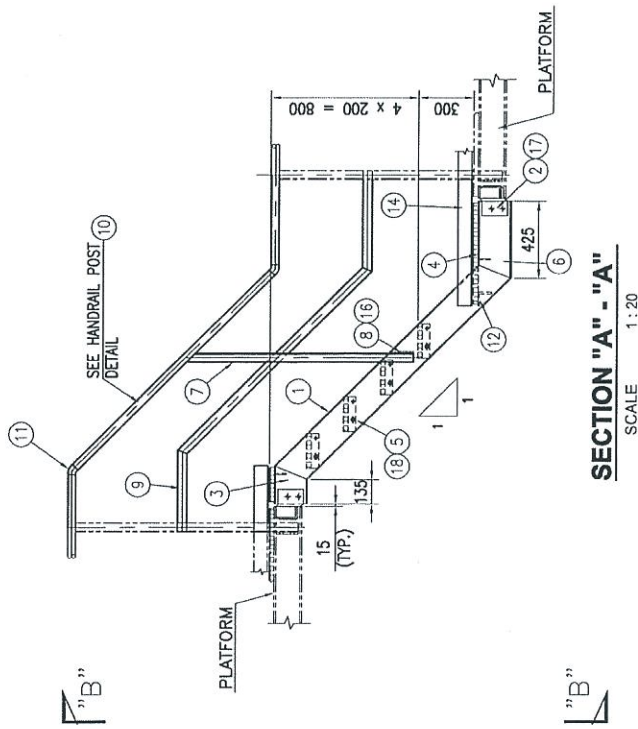
NOTE:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

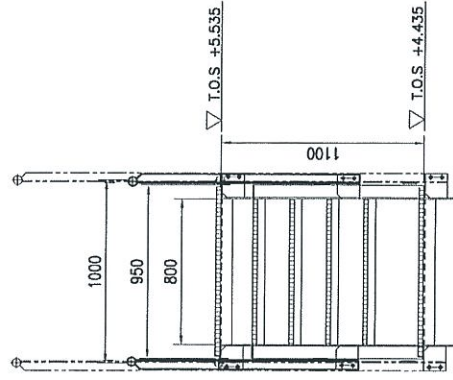
STAIRWAY	QTY.
DESCRIPTION	1
TYPE 7-LPS-301P/AS	1
TOTAL REQ'D = 1	



PLAN VIEW
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

STAIRWAY DETAIL (TYPE 7)
SCALE 1:20

PROJECT NO. : 177
 PROJECT TITLE :
 PROJECT OWNER :
 CONSULTANT :
 DRAWING NO. :
 SHEET NO. : 1 OF 1

DATE : 06/03/13
 FILENAME :
 CHECKED : ERCA
 APPROVED : LHM

DIALOG E & C SDN. BHD. (18229-U)
 104, BUKIT 6, PHELO DAMANSARA 1,
 NO. 9, JALAN 16/11, 46300 PETALING JAYA, SELANGOR.

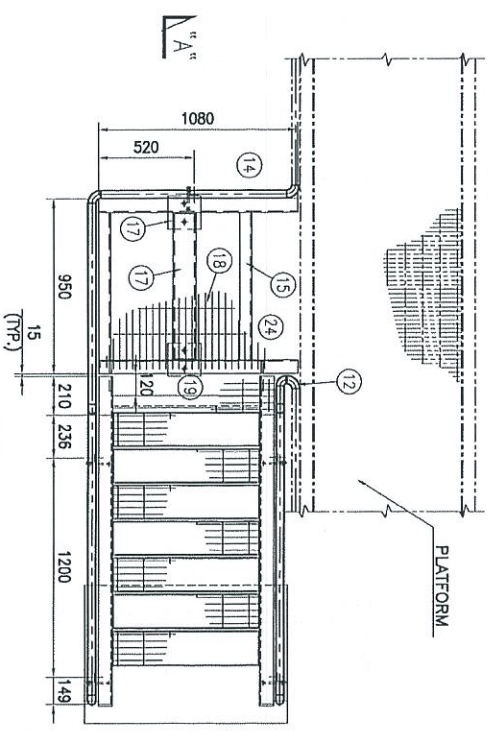
DIALOG 666
 LPS-301
 STAIRWAY DETAIL
 (TYPE-7)

INDEPENDENT DEEPWATER PETROLEUM
 TERMINAL AT PENERANG

DIALOG INDEPENDENT TERMINALS SDN. BHD.

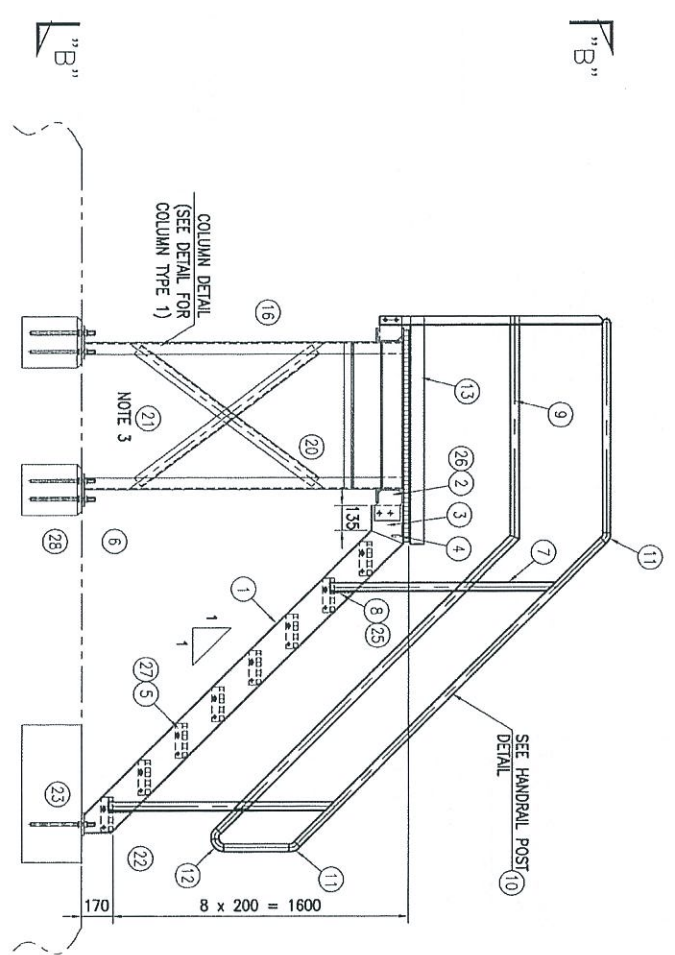
DIALOG 666
 LPS-301
 STAIRWAY DETAIL
 (TYPE-7)

DWG. NO. : DH0008-ENG-C-PF-0232
 SHEET NO. : 1 OF 1

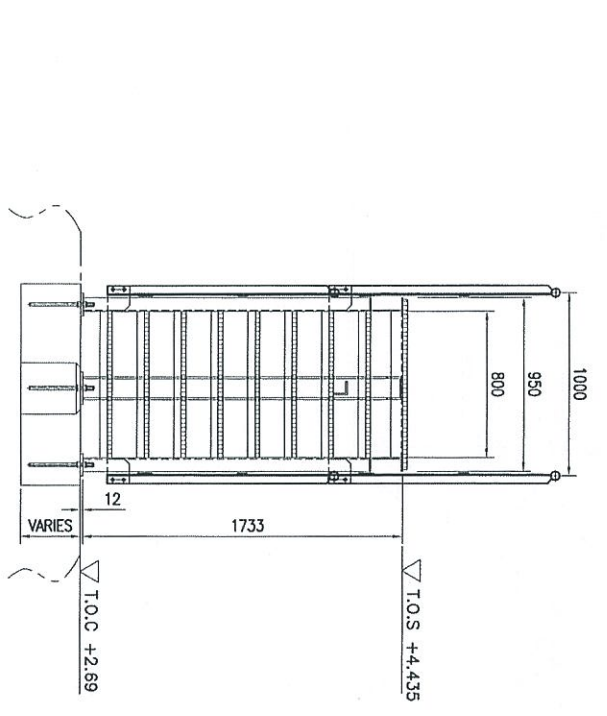


PLAN VIEW
SCALE 1:20

STAIRWAY	QTY.
TYPE 8-LPS-301P/AS	1
TOTAL REQ'D = 1	



SECTION "A" - "A"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

STAIRWAY DETAIL (TYPE 8)
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG) (1 SET)
1	STRINGER - C180 x 75 x 71 x 2278L	A36 OR EQ.	2	97.5
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	2	3.5
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	2	9.5
5	STAIR GRATING - 230 x 800 x 25t	A 36 OR EQ.	8	43.4
6	BASE PLATE - 180 x 180 x 12t	A36 OR EQ.	2	6.1
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	5	27.2
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	5	5.6
9	MID RAIL - FB 50 x 61 x 7720L	A36 OR EQ.	11 LOT	18.2
10	HANDRAIL PIPE 1-1/4" SCH.40 x 9344	SGP	11 LOT	31.6
11	ELBOW 45° 1-1/4"	SGP	6	0.9
12	ELBOW 90° LR 1-1/4"	SGP	5	1.2
13	TOE PLATE - FB 75 x 61 x 2480L	A36 OR EQ.	2	8.8
14	FRAME - C150 x 75 x 6.51 x 10800L	A36 OR EQ.	2	46.2
15	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	1	8.0
16	SUPPORT LEG - C125 x 65 x 61 x 1733L	A36 OR EQ.	2	46.4
17	SUPPORT - C125 x 65 x 61 x 800L	A 36 OR EQ.	1	10.7
18	FLOOR GRATING - 1060 x 930 x 25t	A 36 OR EQ.	1	29.1
19	FLOOR GRATING - 190 x 930 x 25t	A 36 OR EQ.	1	5.2
20	SUPPORT - L75 x 75 x 91 x 788L	A36 OR EQ.	1	5.4
21	BRAÇING - L65 x 65 x 61 x 1202L	A36 OR EQ.	2	14.2
22	END PLATE - 150 x 75 x 10t	A36 OR EQ.	2	1.8
23	BASE PLATE - 125 x 125 x 12t	A36 OR EQ.	2	2.9
24	ELBOW 90° SR 1-1/4"	SGP	1	0.16
25	BOLT & NUT C/W 2X WASHER M16 x 75L	GR.8.8 HDG	8	-
26	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8 HDG	4	-
27	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8 HDG	32	-
28	ANCHOR BOLT M20 x 350L	HILLI ANCHOR	8	-
TOTAL			8	433.6

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (18223-0)
109, BLOCK 9, FIELD SURVEYOR 1,
NO. 8, JALAN 14/11, KESAS PONDOK BUKA, 5040028.

DRAWING TITLE :
LPS-301
STAIRWAY DETAIL
(TYPE-B)

SCALE : AS SHOWN
DRAWN : ZUL
DATE : 06/02/15
CHECKED : ENVA
APPROVED : LUI
REV. NO. :
DHC NO. : DH0008-ENG-C-PF-0233

REVISIONS:

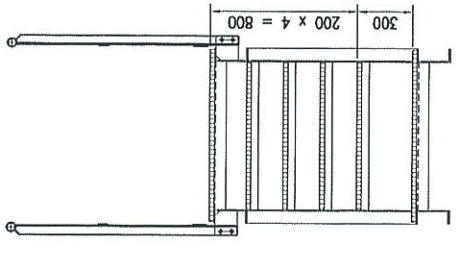
NO.	REASON FOR REVISION	DATE	BY	CHK	APPR.	DATE
1	ISSUED FOR APPROVAL	06/02/15	ZUL	ENVA	LUI	06/02/15
2	ISSUED FOR QUANTITIES	06/02/15	ZUL	ENVA	LUI	06/02/15

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

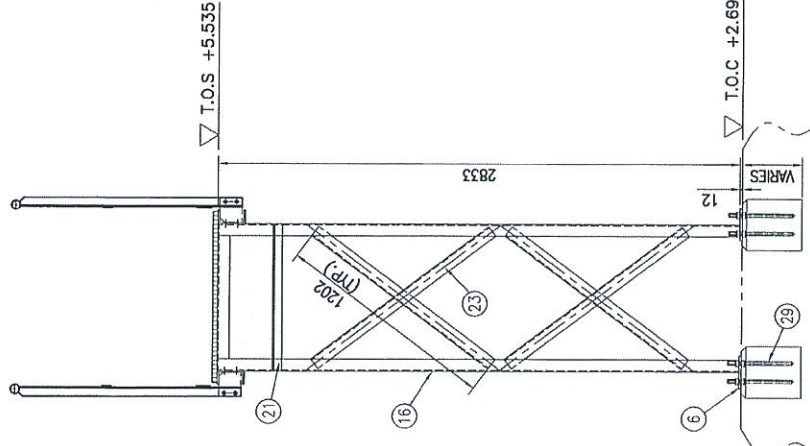
BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	STRINGER - C180 x 75 x 71 x 1630L	A36 OR EQ.	2	34.9
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	4	7.0
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	1	4.7
5	STAIR GRATING - 230 x 800 x 251	A 36 OR EQ.	4	21.7
6	BASE PLATE - 180 x 180 x 121	A36 OR EQ.	4	12.2
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	8	28.4
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	8	9.0
9	MID RAIL - FB 50 x 61 x 8875L	A36 OR EQ.	2	20.9
10	HANDRAIL PIPE 1-1/4" SCH.40 x 10130L	SGP	2	34.2
11	ELBOW 45° 1-1/4"	SGP	4	0.6
12	ELBOW 90° LR 1-1/4"	SGP	6	1.4
13	TOE PLATE - FB 75 x 61 x 5240L	A36 OR EQ.	2	18.5
14	FRAME - C150 x 75 x 651 x 2395L	A36 OR EQ.	2	89.1
15	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	2	21.4
16	SUPPORT LEG - C125 x 65 x 61 x 2833L	A36 OR EQ.	2	75.9
17	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	2	21.4
18	SUPPORT LEG - C125 x 65 x 61 x 473L	A36 OR EQ.	2	12.7
19	FLOOR GRATING - 2400 x 930 x 251	A 36 OR EQ.	1	71.3
20	FLOOR GRATING - 535 x 930 x 251	A 36 OR EQ.	1	14.7
21	SUPPORT - L75 x 75 x 91 x 788L	A36 OR EQ.	1	5.4
22	BRACING #2 - L65 x 65 x 61 x 1468L	A36 OR EQ.	1	8.8
23	BRACING #1 - L65 x 65 x 61 x 1202L	A36 OR EQ.	4	28.4
24	SUPPORT - C180 x 75 x 71 x 425L	A36 OR EQ.	2	18.2
25	SUPPORT - L75 x 75 x 91 x 800L	A36 OR EQ.	1	8.0
26	BOLT & NUT C/W 2X WASHER M16 x 75L	GR.8.8 HDG	16	-
27	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8 HDG	8	-
28	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8 HDG	16	-
29	ANCHOR BOLT M20 x 350L	HILTI ANCHOR	8	-
	TOTAL			577.8

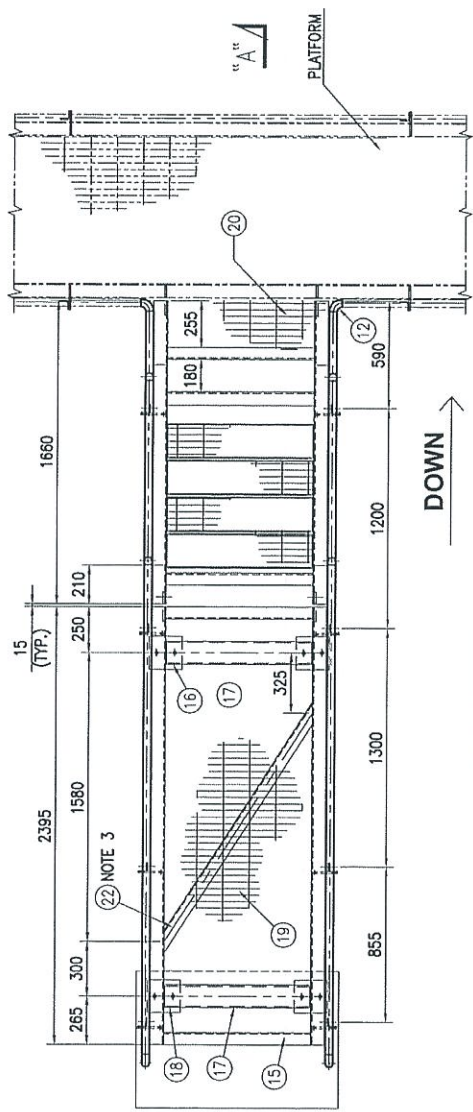
NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT



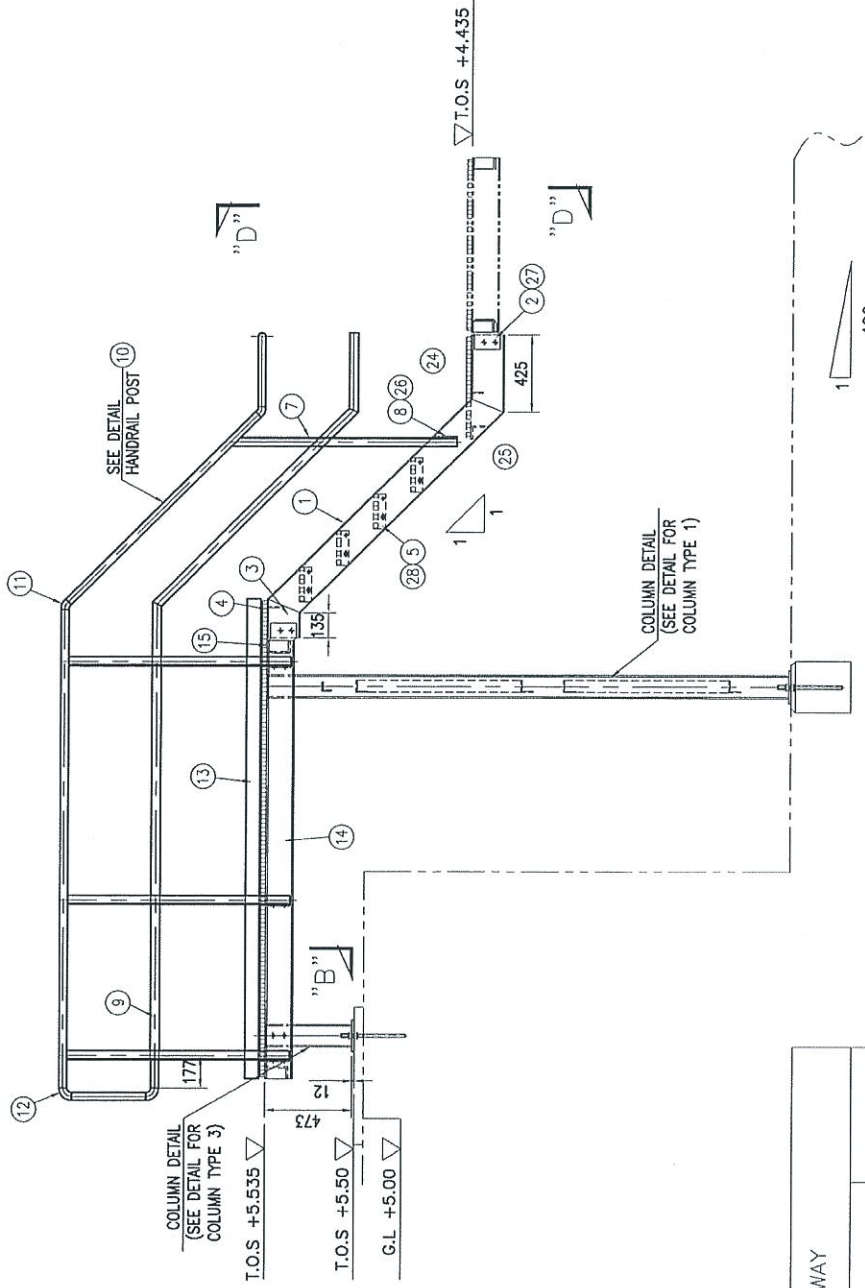
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SCALE 1 : 20



SECTION "C" - "C"
SCALE 1 : 20



PLAN VIEW
SCALE 1 : 20



SECTION "B" - "B"
SCALE 1 : 20

SECTION "C" - "C"
SCALE 1 : 20

STAIRWAY DETAIL (TYPE 9)
SCALE 1 : 20

STAIRWAY DESCRIPTION	QTY.
TYPE 9-LPS-301D/AS	3
TOTAL REQ'D = 3	

PROJECT TITLE :
 INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

PROJECT OWNER :
 DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
 DIALOG & C SDN. BHD. (19720-04)
 109, BLOK 6, PHLOD DAMANSARA 1,
 NO. 8, JALAN 16/71, 43500 PETUNG JAYA, SELANGOR.

DRAWING TITLE :
 LPS-301 STAIRWAY DETAIL (TYPE-9)

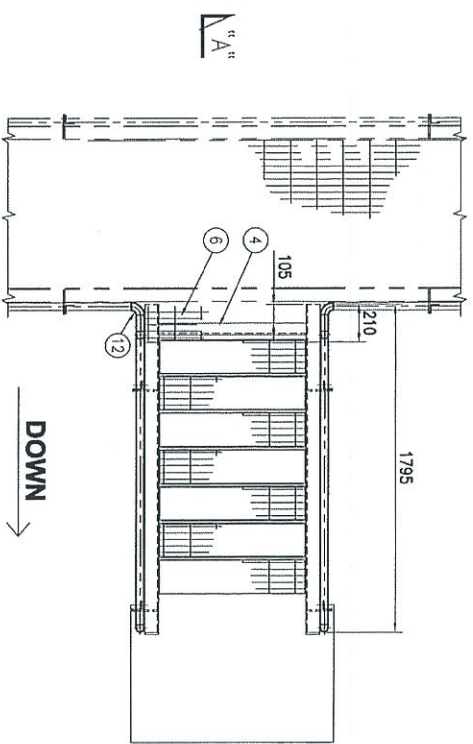
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 DRAWN : ZAL
 DATE : 06/03/13
 FILENAME :
 DWG. NO. : D100008-ENG-C-PF-0234

DATE : 06/03/13
 FILENAME :
 DWG. NO. : D100008-ENG-C-PF-0234

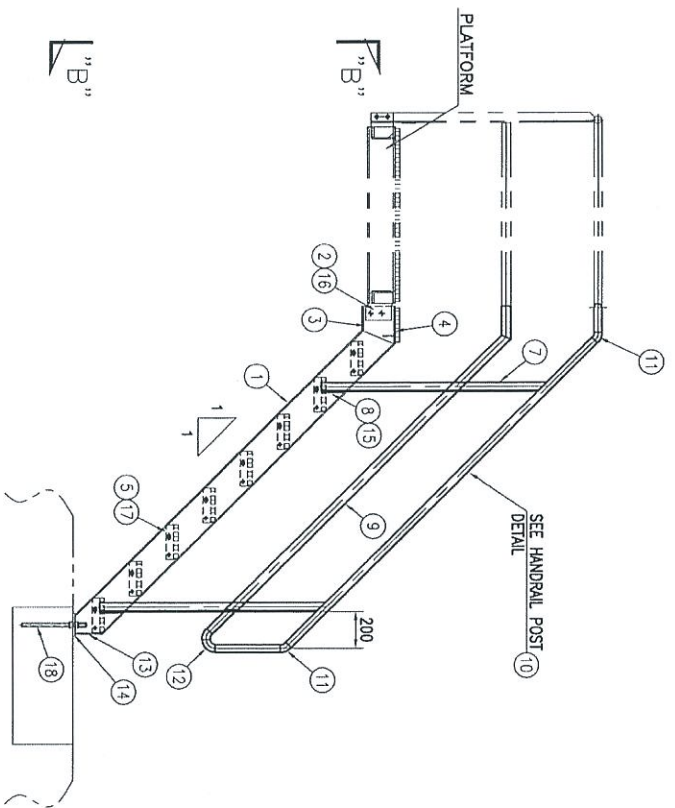
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DATE : 06/03/13
 FILENAME :
 DWG. NO. : D100008-ENG-C-PF-0234

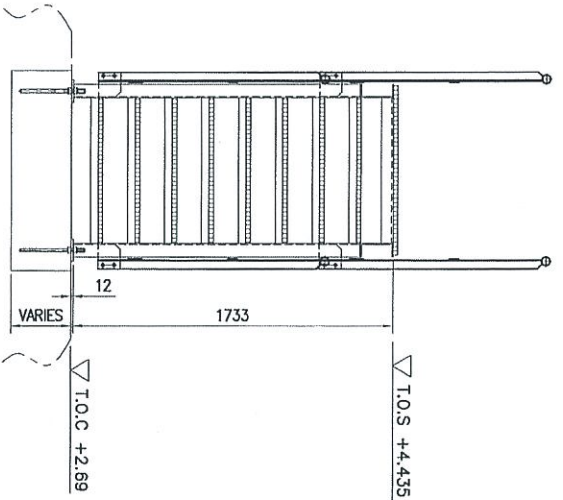
DATE : 06/03/13
 FILENAME :
 DWG. NO. : D100008-ENG-C-PF-0234



PLAN VIEW
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

STAIRWAY DETAIL (TYPE 10)
SCALE 1:20

DESCRIPTION	QTY.
TYPE 10-LPS-301P/AS	2
TOTAL REQ'D =	2

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG. (1 SET))
1	STRINGER - C180 x 75 x 71 x 2280L	A36 OR EQ.	2	97.6
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	2	3.5
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	1	4.7
5	STAIR GRATING - 230 x 800 x 25I	A 36 OR EQ.	8	43.4
6	FLOOR GRATING - 190 x 930 x 25I	A36 OR EQ.	1	5.2
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	4	16.9
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	2	2.3
9	MID RAIL - F8 50 x 61 x 4590L	A36 OR EQ.	1 LOT	8.6
10	HANDRAIL PIPE 1-1/4" SCH.40 x 3135L	SGP	1 LOT	21.8
11	ELBOW 45° 1-1/4"	SGP	6	0.9
12	ELBOW 90° LR 1-1/4"	SGP	4	1.0
13	END PLATE - 150 x 75 x 101	A36 OR EQ.	2	1.8
14	BASE PLATE - 125 x 125 x 121	A36 OR EQ.	2	2.9
15	BOLT & NUT C/W 2X WASHER M16 x 73L	GR 8.8 HDG	8	-
16	BOLT & NUT C/W 2X WASHER M20 x 85L	GR 8.8 HDG	4	-
17	BOLT & NUT C/W 2X WASHER M12 x 40L	GR 8.8 HDG	32	-
18	ANCHOR BOLT M20 x 350L	HILTI ANCHOR	4	-
TOTAL				223.2

NOTE:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
3. CUT TO SUIT

PROJECT OWNER :
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT :
DIALOG E & C SDN. BHD. (18220-0)
101, BLOCK 6, PRIMO SUBURB, NO. 8, JALAN 10/11, 4300 PENANG, SELANGOR.

DRAWING TITLE :
LPS-301 STAIRWAY DETAIL (TYPE-10)

SCALE : AS SHOWN
DRAWN : ZUL
DATE : 06/03/15
DWC NO. : DH0009-BN-C-PF-0235

CHECKED : BROA
APPROVED : LAM
DATE :
SHT. NO. : 1
REV. : 0

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

REFERENCE DRAWINGS

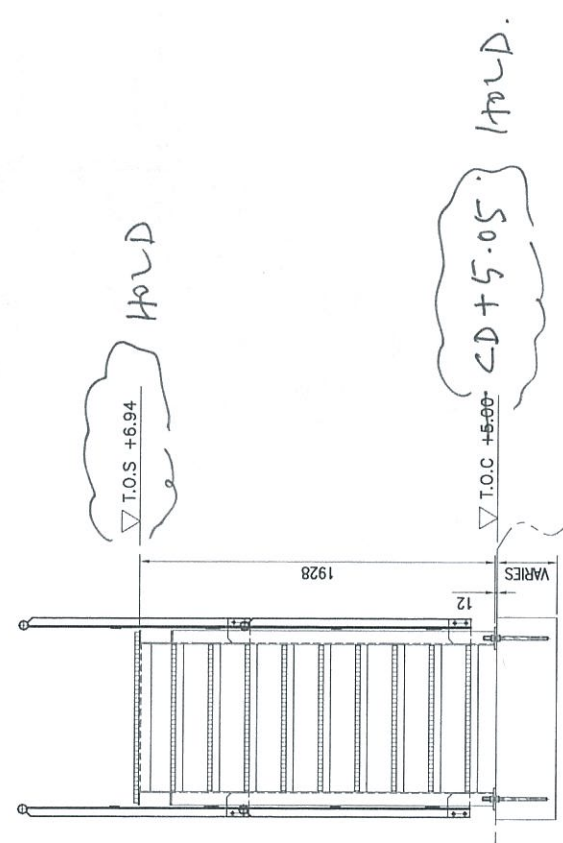
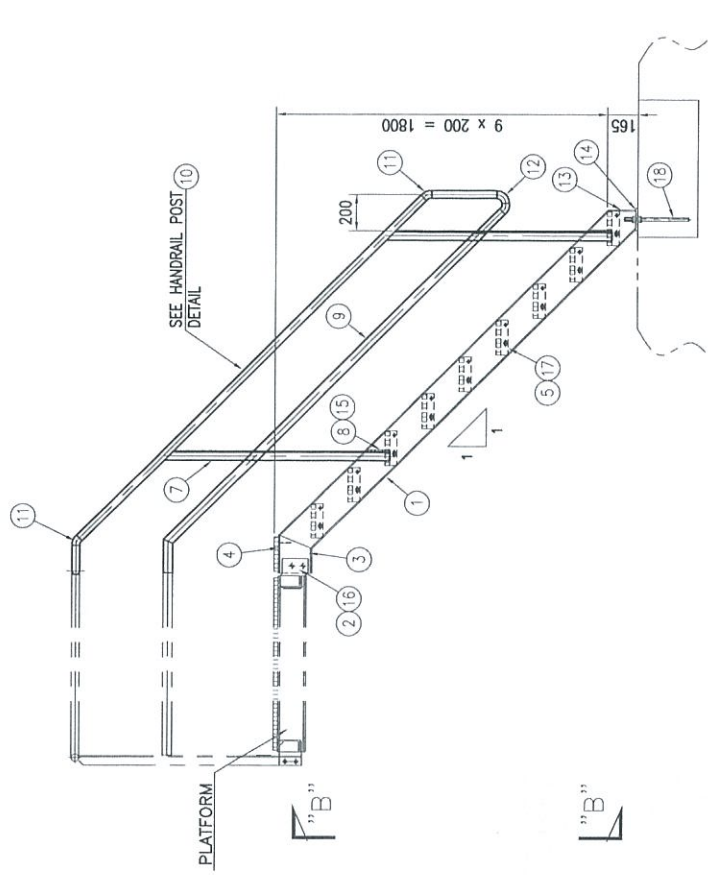
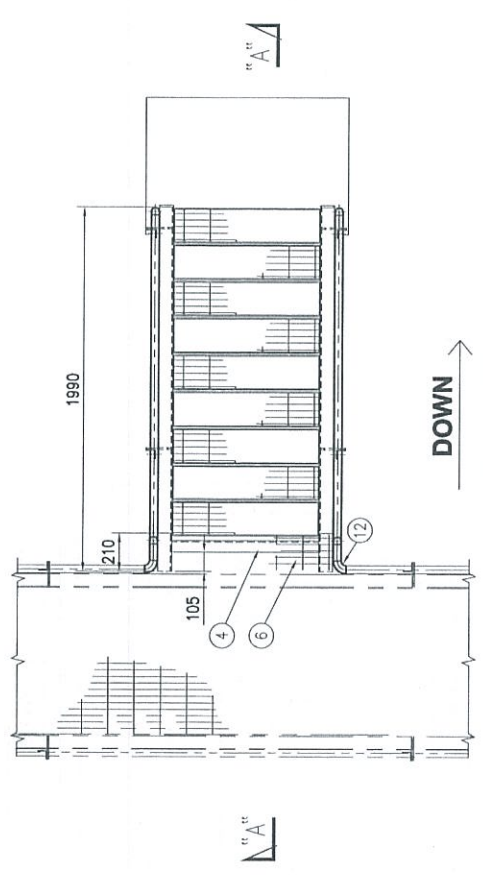
NO.	DESCRIPTION	BY	CHK	APPR.	DATE
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2	ISSUED FOR CONSTRUCTION	ZUL	BROA	LAM	06/03/15

BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)

NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG)
1	STRINGER - C180 x 75 x 71 x 2555L	A36 OR EQ.	2	109.4
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	2	3.5
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	1	4.7
5	STAIR GRATING - 230 x 800 x 251	A 36 OR EQ.	9	48.8
6	FLOOR GRATING - 170 x 930 x 251	A36 OR EQ.	1	5.2
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	4	21.8
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	4	4.5
9	MID RAIL- FB 50 x 61 x 5150L	A36 OR EQ.	1 LOT	12.2
10	HANDRAIL PIPE 1-1/4" SCH.40 x 6830L	SGP	1 LOT	23.1
11	ELBOW 45° 1-1/4"	SGP	6	0.9
12	ELBOW 90° LR 1-1/4"	SGP	2	0.5
13	END PLATE - 150 x 75 x 101	A36 OR EQ.	2	1.8
14	BASE PLATE - 125 x 125 x 121	A36 OR EQ.	2	2.5
15	BOLT & NUT C/W 2X WASHER M16 x 75L	GR.8.8-HDG	8	-
16	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8-HDG	4	-
17	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8-HDG	32	-
18	ANCHOR BOLT M20 x 350L	HILTI ANCHOR	4	-
TOTAL				247.9

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

STAIRWAY	
DESCRIPTION	QTY.
TYPE 11-LPS-301P/AS	1
TOTAL REQ'D = 1	



STAIRWAY DETAIL (TYPE 11)
SCALE 1:20

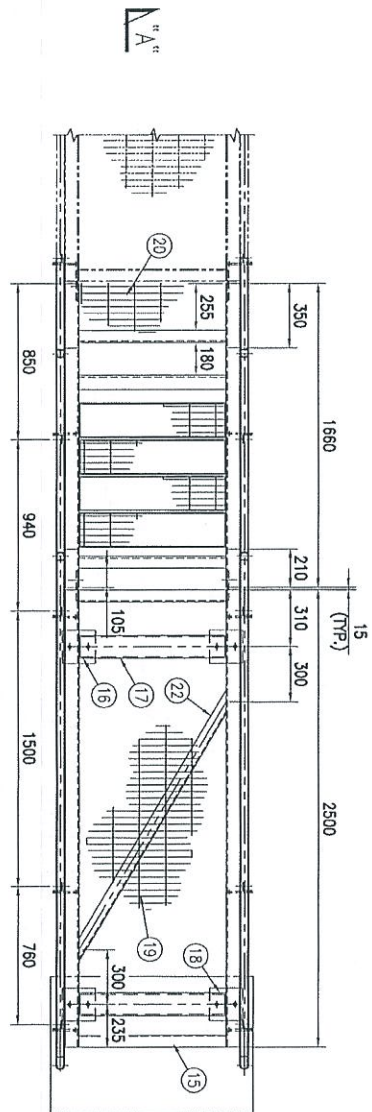
PROJECT NO. : LPS-301
 PROJECT TITLE : INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

CLIENT : DIALOG INDEPENDENT TERMINALS SDN. BHD.

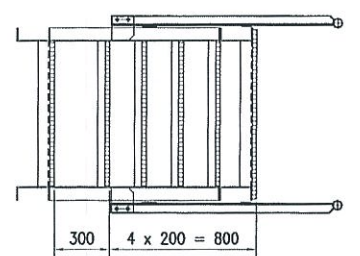
CONSULTANT : DIALOG E & C SDN. BHD. (19329-4)
 NO. 9, JALAN 14/11, 40200 FELDA, SEREMBAN

DRAWING TITLE : LPS-301 STAIRWAY DETAIL (TYPE-11)

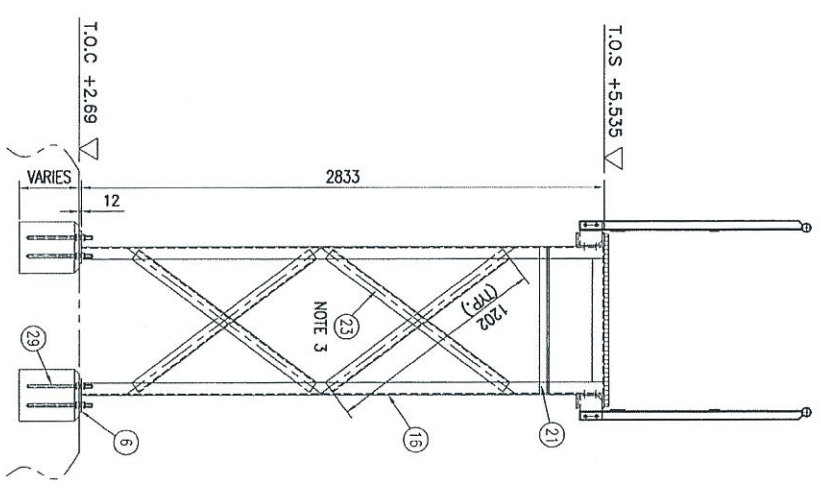
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 CHECKED : ERCA
 DRAWN : ZL
 APPROVED : LUM
 DATE : 09/03/13
 FILENAME :
 DWG. NO. : DH0008-ENG-C-PF-0235
 SHT. NO. : 1 OF 1
 REV. : 0



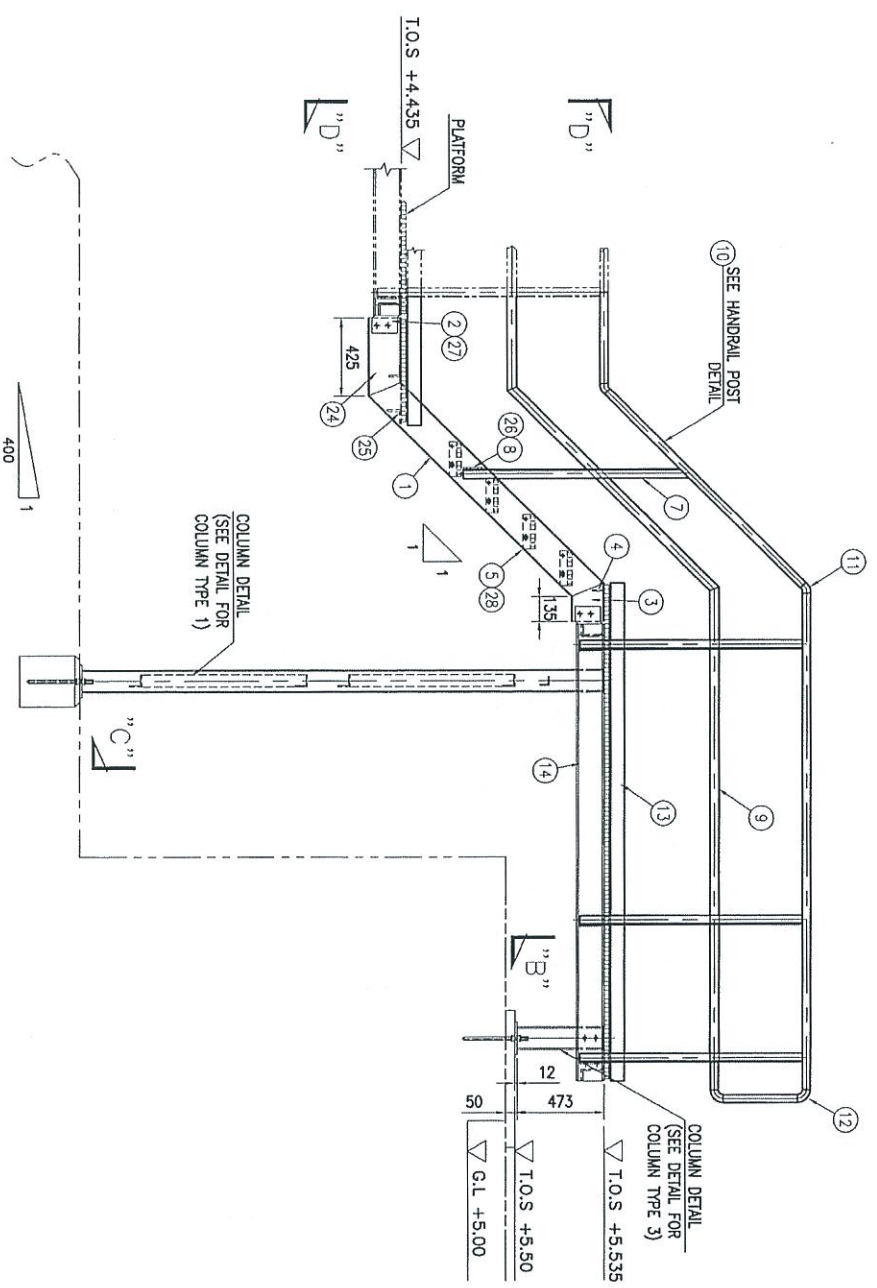
PLAN VIEW
SCALE 1:20



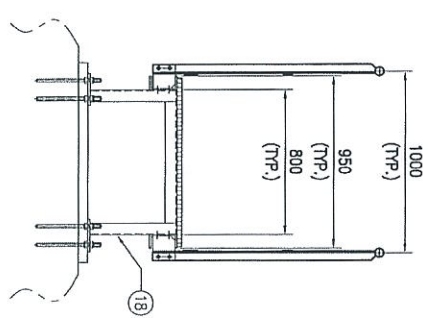
SECTION "D" - "D"
SCALE 1:20



SECTION "C" - "C"
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20



SECTION "B" - "B"
SCALE 1:20

BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)				
NO.	DESCRIPTION	MATERIAL	TOTAL QTY (1 SET)	TOTAL WEIGHT (KG) (1 SET)
1	STRINGER - C180 x 75 x 71 x 1630L	A36 OR EQ.	2	34.9
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	4	7.0
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	1	6.8
5	STAIR GRATING - 230 x 800 x 25F	A 36 OR EQ.	4	21.7
6	BASE PLATE - 180 x 180 x 121	A36 OR EQ.	4	12.2
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	8	43.6
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	8	9.0
9	MID RAIL - F8 50 x 61 x 9560L	A36 OR EQ.	1 LOT	22.4
10	HANDRAIL PIPE 1-1/4" SCH.40 x 10860L	SGP	1 LOT	36.7
11	ELBOW 45° 1-1/4"	SGP	4	0.6
12	ELBOW 90° LR 1-1/4"	SGP	4	1.0
13	TOE PLATE - F8 75 x 61 x 5450L	A36 OR EQ.	2	19.2
14	FRAME - C150 x 75 x 6.51 x 2950L	A36 OR EQ.	2	93.0
15	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	2	21.4
16	SUPPORT LEG - C125 x 65 x 61 x 2833L	A36 OR EQ.	2	75.9
17	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	2	21.4
18	SUPPORT LEG - C125 x 65 x 61 x 473L	A36 OR EQ.	2	12.7
19	FLOOR GRATING - 2705 x 930 x 25F	A 36 OR EQ.	1	74.2
20	FLOOR GRATING - 555 x 930 x 25F	A 36 OR EQ.	1	15.2
21	SUPPORT - L75 x 75 x 91 x 788L	A36 OR EQ.	1	5.4
22	BRACING #1 - L65 x 65 x 61 x 1574L	A36 OR EQ.	1	9.3
23	BRACING #2 - L65 x 65 x 61 x 1202L	A36 OR EQ.	4	28.4
24	SUPPORT - C180 x 75 x 71 x 425L	A36 OR EQ.	2	18.2
25	SUPPORT - L75 x 75 x 91 x 800L	A36 OR EQ.	1	8.0
26	BOLT & NUT C/W 2X WASHER M16 x 79L	GR 8.8 HDG	12	-
27	BOLT & NUT C/W 2X WASHER M20 x 93L	GR 8.8 HDG	8	-
28	BOLT & NUT C/W 2X WASHER M12 x 40L	GR 8.8 HDG	16	-
29	ANCHOR BOLT M20 x 350L	HILLT ANCHOR	8	-
TOTAL				607.2

NOTE:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ALL WELD TO BE IN ACCORDANCE WITH AWS D1.1.
3. CUT TO SUIT

DESCRIPTION	QTY.
TYPE 12-LPS-301P/AS	1
TOTAL REQ'D =	1

PROJECT OWNER:
DIALOG INDEPENDENT TERMINALS SDN. BHD.

CONSULTANT:
DIALOG E & C SDN. BHD. (18770-0)
101, BLOCK 5, FIELD SURVEYOR 1,
NO. 5, JALAN 1/11, 4300 PENJANG, PERAK, SELANGOR.

DRAWING TITLE:
LPS-301
STAIRWAY DETAIL
(TYPE-12)

SCALE: AS SHOWN
CHECKED: ENVA
DRAWN: ZUL
APPROVED: LAM
DATE: 06/02/13
REVISION:

PROJECT TITLE:
INDEPENDENT DEEPWATER PETROLEUM
TERMINAL AT PENGERANG

REVISIONS:

NO.	REASON FOR REVISION	DATE	BY	CHK	DATE
1	ISSUED FOR CONSTRUCTION	06/02/13	ZUL	ENVA	06/02/13
2	ISSUED FOR CONSTRUCTION	06/02/13	ZUL	ENVA	06/02/13

DRG NO.: 0202-02-04-02-01, SHT. 1-1
0202-02-04-02-01-02
0202-02-04-02-01-03

REFERENCE DRAWINGS:

PROJECT NO.: DH0008-ENG-C-PI-0237

SHT. NO.: 1 OF 1

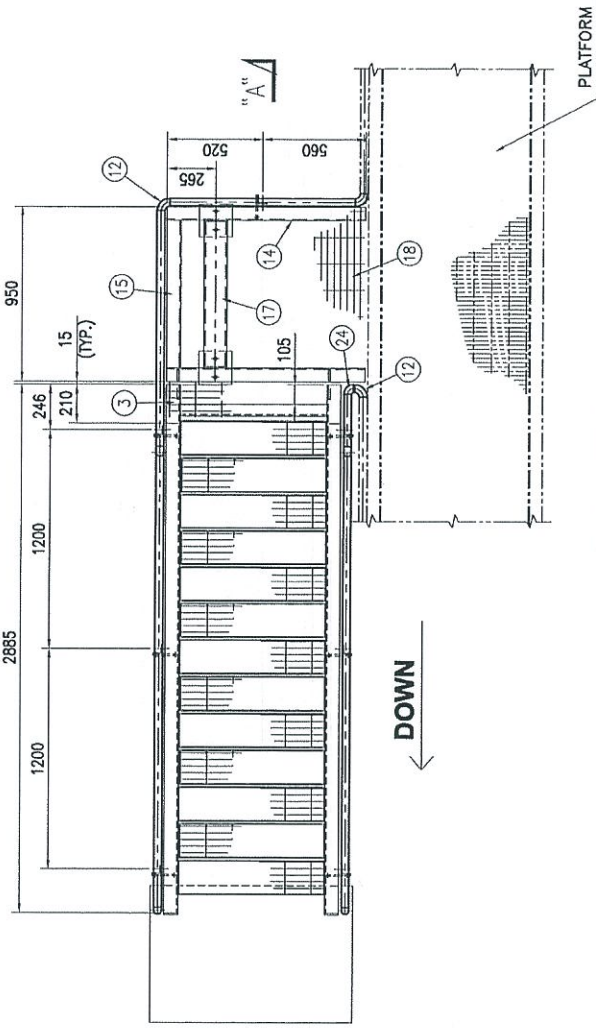
REV.: 0

BILL OF MATERIALS (ONE (1) SET OF STAIRWAY)

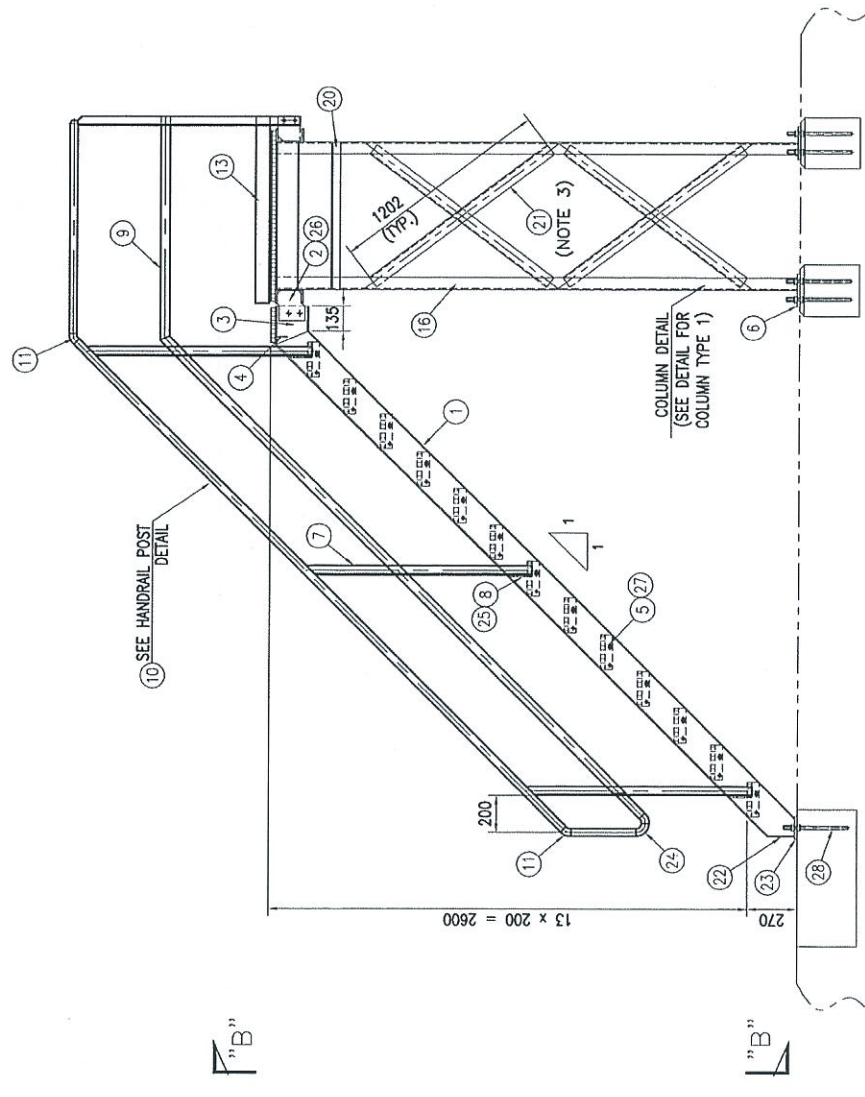
NO.	DESCRIPTION	MATERIAL	QTY (1 SET)	TOTAL WEIGHT (KG)
1	STRINGER - C180 x 75 x 71 x 3835L	A36 OR EQ.	2	144.1
2	CLEAT - PLATE 165 x 150 x 91	A36 OR EQ.	2	3.5
3	SUPPORT - C180 x 75 x 71 x 210L	A36 OR EQ.	2	9.0
4	SUPPORT - L65 x 65 x 61 x 800L	A36 OR EQ.	1	6.8
5	STAIR GRATING - 230 x 800 x 251	A 36 OR EQ.	13	70.6
6	BASE PLATE - 180 x 180 x 121	A36 OR EQ.	2	6.1
7	STANCHION - L50 x 50 x 61 x 1230L	A36 OR EQ.	7	38.1
8	CLEAT - PLATE 133 x 120 x 91	A36 OR EQ.	7	7.9
9	MID RAIL - FB 50 x 61 x 9440L	A36 OR EQ.	1 LOT	22.3
10	HANDRAIL PIPE 1-1/4" SCH.40 x 10169L	SGP	1 LOT	34.4
11	ELBOW 45° 1-1/4"	SGP	6	0.9
12	ELBOW 90° LR 1-1/4"	SGP	5	1.2
13	TOE PLATE - FB 75 x 61 x 2030L	A36 OR EQ.	1 LOT	7.2
14	FRAME - C150 x 75 x 6.51 x 1080L	A36 OR EQ.	2	20.1
15	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	1	10.7
16	SUPPORT LEG - C125 x 65 x 61 x 2833L	A36 OR EQ.	2	75.9
17	FRAME - C125 x 65 x 61 x 800L	A36 OR EQ.	1	10.7
18	FLOOR GRATING - 1060 x 930 x 251	A 36 OR EQ.	1	29.1
19	FLOOR GRATING - 190 x 930 x 251	A 36 OR EQ.	1	5.2
20	SUPPORT - L75 x 75 x 91 x 788L	A36 OR EQ.	1	5.4
21	BACING - L65 x 65 x 61 x 1202L	A36 OR EQ.	4	28.4
22	END PLATE - 150 x 75 x 101	A36 OR EQ.	2	1.8
23	REINFORCEMENT PAD - 125 x 125 x 121	A36 OR EQ.	2	2.9
24	ELBOW 90° SR 1-1/4"	SGP	1	0.16
25	BOLT & NUT C/W 2X WASHER M16 x 75L	GR.8.8 HDG	14	-
26	BOLT & NUT C/W 2X WASHER M20 x 85L	GR.8.8 HDG	4	-
27	BOLT & NUT C/W 2X WASHER M12 x 40L	GR.8.8 HDG	52	-
28	ANCHOR BOLT M20 x 350L	HILTI ANCHOR	8	-
TOTAL				562.5

NOTE:
 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
 2. ALL WELD TO BE IN ACCORDANCE WITH AWS-D1.1.
 3. CUT TO SUIT

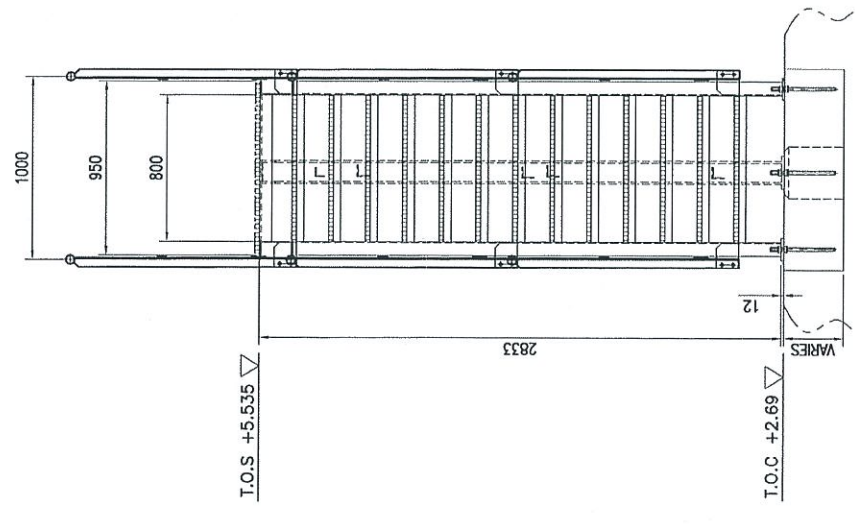
PROJECT NO.	DATE	BY	CHK	APPR.	DATE
1000-00-01-01-001, SHT. 1-7	06/03/13	ZAL	ZAL	ZAL	06/03/13
1000-00-01-01-001-001-001					
REFERENCE DRAWINGS					
TITLE					
PROJECT TITLE :					
PROJECT OWNER :					
CONSULTANT :					
DRAWING TITLE :					
SCALE :					
DATE :					
DWG. NO. :					
SHEET NO. :					
REV. :					



PLAN VIEW
SCALE 1:20



SECTION "A" - "A"
SCALE 1:20

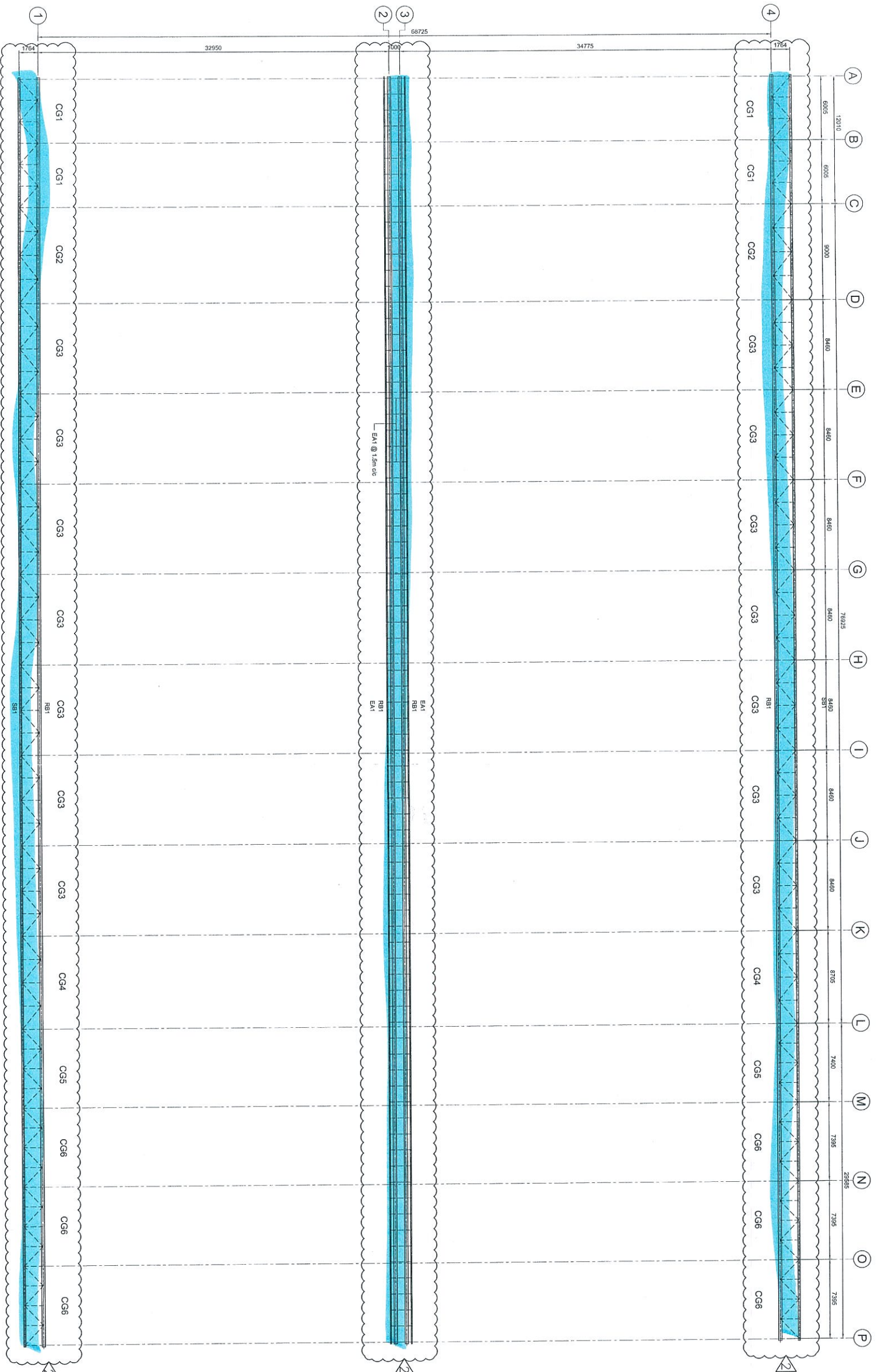


SECTION "B" - "B"
SCALE 1:20

PLATFORM WITH STAIRWAY	
DESCRIPTION	QTY.
TYPE 13-LPS-301P/AS	1
TOTAL REQ'D = 1	

STAIRWAY DETAIL (TYPE 13)
SCALE 1:20

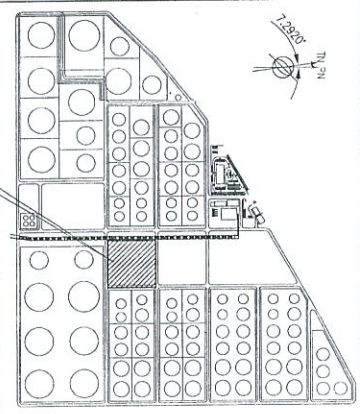
- CRANE SUPPORT PLATFORM - LPS 301



RUNWAY BEAM LAYOUT (T.O.S. = EL+9.825m)

SCALE 1:200

KEY PLAN



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER AND LEGALS ARE IN METERS.
2. FOR STRUCTURE NOTES REFER DIMING : DH0008-ENG-C-01-001.
3. PROVIDING GENERAL WASTE WATER PLANT REFER DIMING : DH0008-ENG-P-0-001.
4. FOR CRANE SUPPORT OVERALL LAYOUT REFER DIMING : DH0008-ENG-C-0-007 AND DH0008-ENG-C-0-008.
5. FOR DETAILS REFER DIMING : DH0008-ENG-C-0-008.

ABBREVIATIONS:

- 1) T.O.S. DENOTES TOP OF STEEL.

LEGENDS:

TYPE	MARK	SIZE	REMARKS
COLUMN	CI	380x380x170 mm UB	1 - SECTION
RUNWAY BEAM	RBI	510x205x149 mm UB	1 - SECTION
STEEL BEAM	SBI	200x200x48 mm UC	1 - SECTION
STEEL BEAM	SBI	150x150x24 mm UC	1 - SECTION
STEEL BEAM	SBI	200x100x23 mm UB	1 - SECTION
STEEL BEAM	SBI	100x100x10mm THK	ENJAL ANGLE

NO.	DESCRIPTION	BY	CHK'D	APPR.	DATE
1	ISSUED FOR CONSTRUCTION	EPH	CTT	THE	15.05.13
0	ISSUED FOR APPROVAL	EPH	CTT	THE	27.04.12
B	ISSUED FOR REVIEW	EPH	CTT	THE	10.05.12
A	ISSUED FOR REVIEW	EPH	CTT	THE	06.03.12

PROJECT TITLE :

INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

PROJECT OWNER :

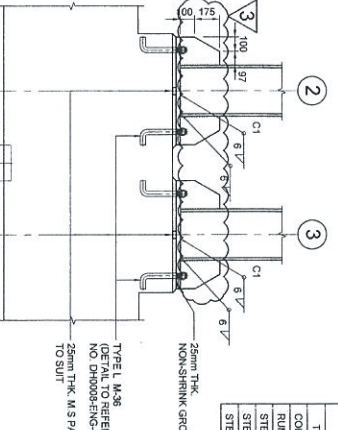
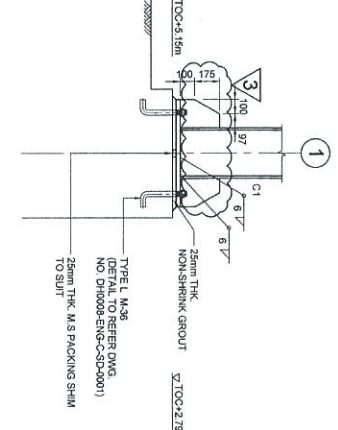
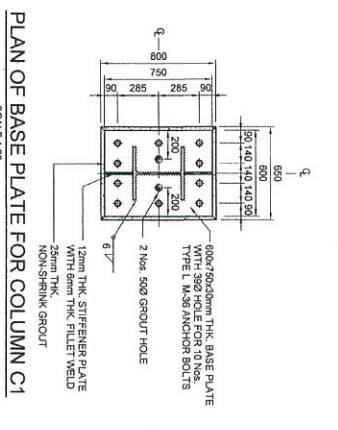
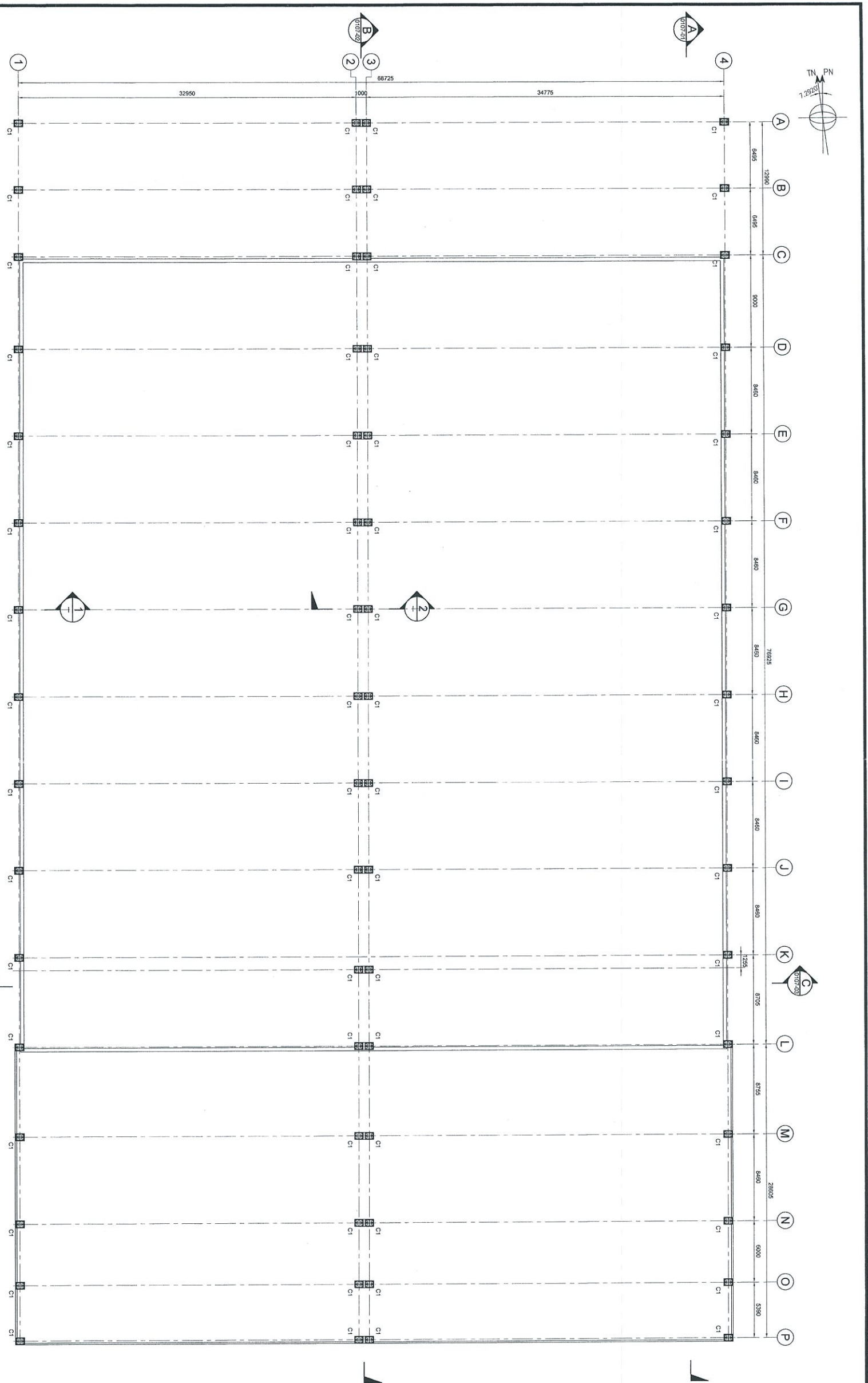
PENGERANG INDEPENDENT TERMINALS SDN.BHD.

EPCC CONTRACTOR :

DIALOG E & C SDN. BHD. (182290-U)
109, BLOK 5, PHILIED DAMANSARA 1,
NO. 9, JALAN 16/11, 46350 PETALING JAYA, SELANGOR.

LPS 301
CRANE RUNWAY LAYOUT

SCALE : 1 : 200	CHECKED : WHL/ZJ
DRWN : ENIL	APPROVED : LAM
DATE : MARCH 2012	FILENAME : DH0008-ENG-C-LP-0109
DWG. NO. : DH0008-ENG-C-LP-0109	SHT. NO. REV. (1 OF 1) 2



MEMBER SCHEDULE FOR STEEL WORKS

TYPE	MARK	SIZE	REMARKS
COLUMN	C1	306x306x177 kg/m UB	1-SECTION
RUNWAY BEAM	R01	610x200x148 kg/m UB	1-SECTION
STEEL BEAM	S01	200x200x48 kg/m UC	H-SECTION
STEEL BEAM	S02	102x102x23 kg/m UC	H-SECTION
STEEL BEAM	E01	90x60x7mm THK	EQUAL ANGLE

STEEL STRUCTURAL LAYOUT
SCALE 1:300

PLAN OF BASE PLATE FOR COLUMN C1
SCALE 1:25

SECTION 1
SCALE 1:25

SECTION 2
SCALE 1:25

NOTES:
1) STRUCTURAL NOTES SHALL REFER TO DWG. NO. DH0008-DWG-C-01-0001
SHEET 1 OF 7 TO SHEET 7 OF 7.

NO.	DESCRIPTION	DATE	BY	CHK.	APP.	DWG.
1	APPROVED FOR CONSTRUCTION	09/07/13	YH	YH		
2	APPROVED FOR CONSTRUCTION	09/07/13	YH	YH		
3	APPROVED FOR CONSTRUCTION	09/07/13	YH	YH		
4	APPROVED FOR CONSTRUCTION	09/07/13	YH	YH		
5	APPROVED FOR CONSTRUCTION	09/07/13	YH	YH		
6	APPROVED FOR CONSTRUCTION	09/07/13	YH	YH		
7	APPROVED FOR CONSTRUCTION	09/07/13	YH	YH		
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100	APPROVED FOR CONSTRUCTION	09/07/13	YH	YH		

PROJECT TITLE :
CADANGAN MEMBINA TERMINAL PETROLIUM MARINI LAUT
BEBAS INDEPENDENT DEEPWATER PETROLIUM TERMINAL)
YANG MENDUNGGI :
A) 105 UNIT TANGKI TERMINAL
B) 1 UNIT KEMUDAHAN MARINI
C) BANGUNAN PELABAT 2 TINGKAT
D) BANGUNAN ELEKTRIK
E) RUMAH PENGAYAL
F) KEMUDAHAN KEMUDAHAN SOKONGAN LAIN
DI DATAS LOT PTD 4838, PTD 4837 DAN PTD 4836
MUKIM PENGERANG, DAERAH KOTA TINGGI, JOHOR.

PROJECT OWNER :
PENGERANG INDEPENDENT TERMINALS SDN. BHD.

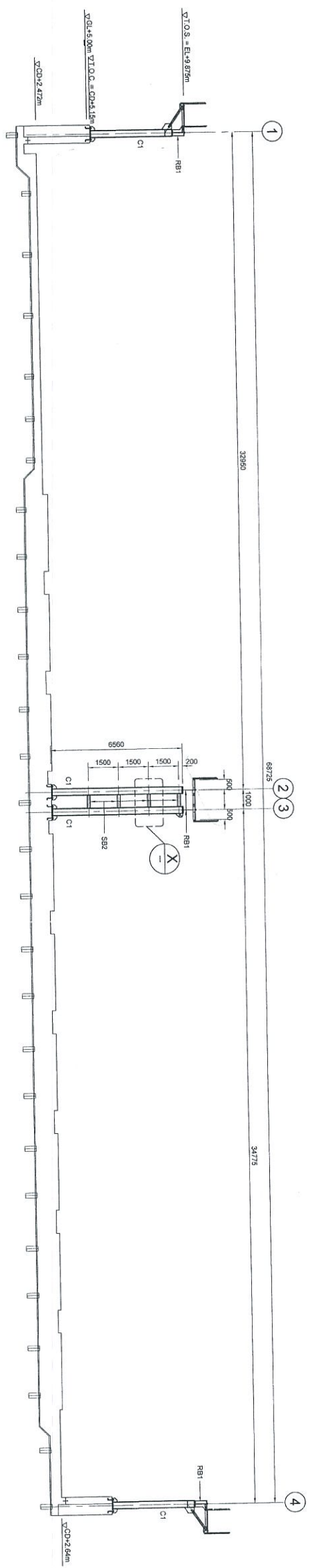
EPCC CONTRIBUTOR :
DIALOG
109, BLOK 6, PHASE 1, SRI ALAM
NO. 9, JALAN 16/11, 46200 PETUNG JAYA, SELANGOR

CONSULTING ENGINEERS :
LPS 301
109, BLOK 6, PHASE 1, SRI ALAM
NO. 9, JALAN 16/11, 46200 PETUNG JAYA, SELANGOR

DRAWING TITLE :
STEEL STRUCTURAL LAYOUT

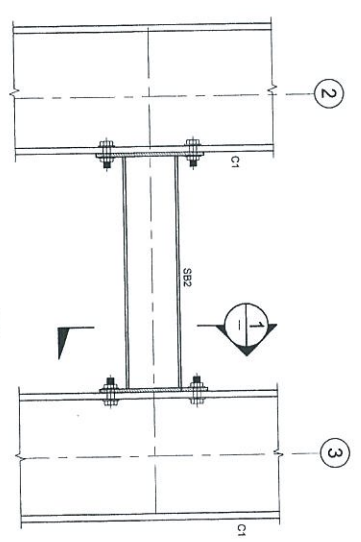
SCALE : AS SHOWN
DRAWN : A.C. LIM
DATE : MARCH 2012
DWG. NO. : DH0008-ENG-C-LP-0106



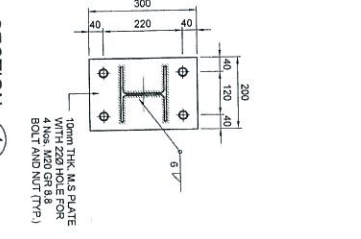


SECTION C
SCALE 1:20

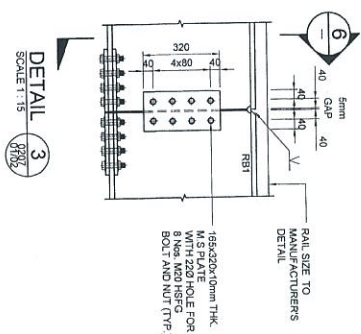
TYPE	MARK	SIZE	REMARKS
COLUMN	C1	356x368x177 kgm UB	I - SECTION
RUNWAY BEAM	R81	610x204x149 kgm UB	I - SECTION
STEEL BEAM	S82	203x203x46 kgm UC	H - SECTION
STEEL BEAM	S82	152x152x23 kgm UC	H - SECTION
STEEL BEAM	E41	90x90x7mm THK	EQUAL ANGLE



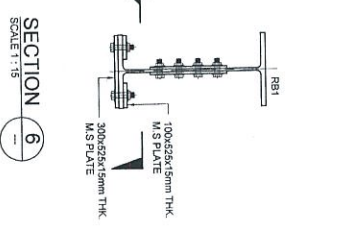
DETAIL X
SCALE 1:10



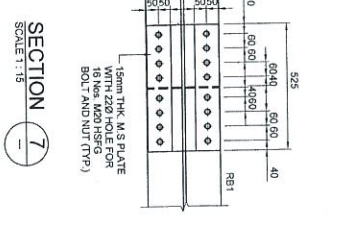
SECTION 1
SCALE 1:10



DETAIL 3
SCALE 1:15

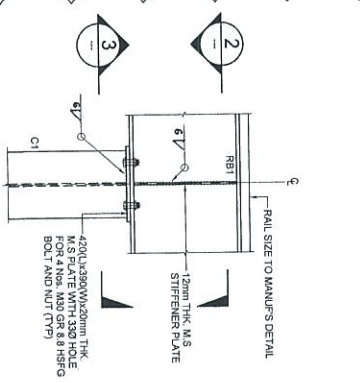


SECTION 6
SCALE 1:15

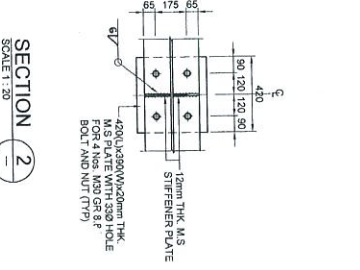


SECTION 7
SCALE 1:15

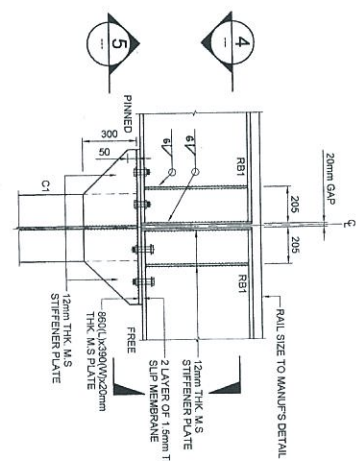
TYPICAL SPLICE JOINT DETAIL
SCALE 1:15



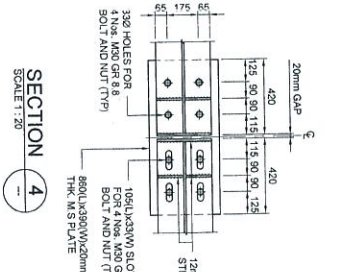
DETAIL 1
SCALE 1:20



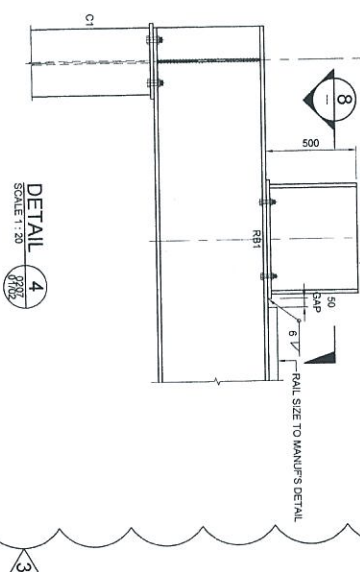
SECTION 2
SCALE 1:20



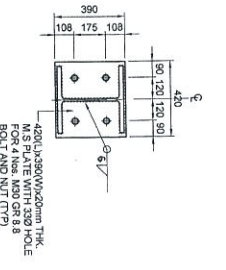
DETAIL 2
SCALE 1:20



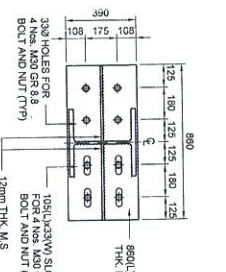
SECTION 4
SCALE 1:20



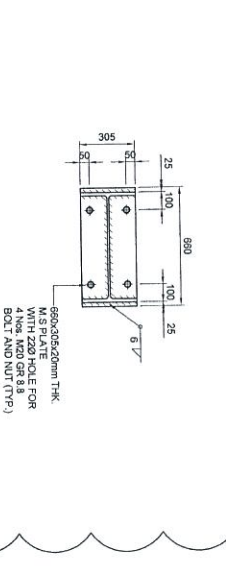
DETAIL 4
SCALE 1:20



SECTION 3
SCALE 1:20



SECTION 5
SCALE 1:20



SECTION 8
SCALE 1:20

NOTES:
1) 1:0.5 DIMENSIONS TYPE OF STEEL
2) GRADE MAXIMUM DETAILS TO BE19 TO DMC. NO. DH0008-ENG-C-LP-0107-3
AND DIMENSIONS-DIM-C-LP-0107-3



NO.	DATE	DESCRIPTION	BY	CHK	APPR.	DATE
1	14/08/23	APPROVED FOR CONSTRUCTION	EDP/TM	EDP/VT	EDP/TH	14/08/23
2	18/08/23	APPROVED FOR CONSTRUCTION	EDP/TM	EDP/CT	EDP/TH	18/08/23
3	22/08/23	APPROVED FOR CONSTRUCTION	EDP/TM	EDP/CT	EDP/TH	22/08/23
4	10/09/23	REVISED FOR DESIGN	EDP/TM	EDP/CT	EDP/TH	10/09/23

PROJECT TITLE :
CADANGAN MEMBINA TERMINAL PETROLIUM MARIN LAUT
BERSAS INDEPENDENT TERMINAL TERPETROLEUM (TERMINAL)
YAN) 705 UNIT TANGIK TERMINAL
B) 1 UNIT KEMADAHAN MARIN
C) BANGUNAN PELABAT 2 TINGKAT
D) PENCANGKANG ELETRIK
E) BUKAH PENGAWAL
F) KEMUDAHAN KEMUDAHAN SOKONGAN LAIN
DI ATAS LOT PTD 488, PTD 487 DAN PTD 486
MUKIM PENERANG, DAERAH KOTA TINGGI, JOHOR.

PROJECT OWNER :
PENERANG INDEPENDENT TERMINALS SDN. BHD.

EPCC CONTRACTOR :
DIALOG E & C SDN. BHD. (189296-U)

CONSULTING ENGINEERS :
EDP CONSULTING GROUP SDN. BHD.

DRAWING TITLE :
STEEL STRUCTURAL SECTION AND ELEVATION

SCALE : AS SHOWN

DRAWN : A.C. LIM

CHECKED : Y.L. CHA

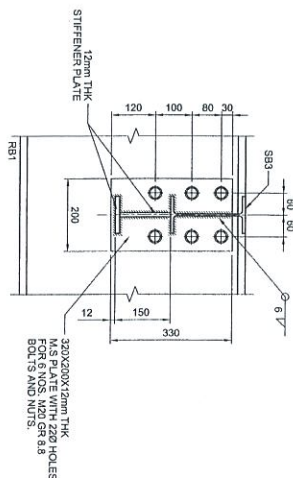
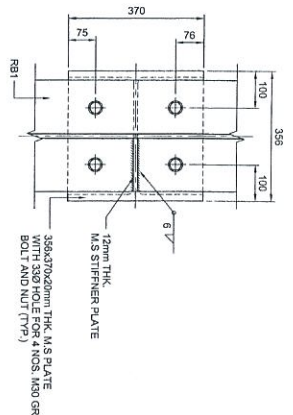
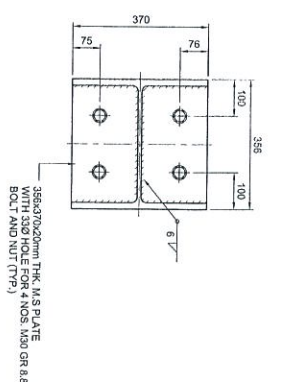
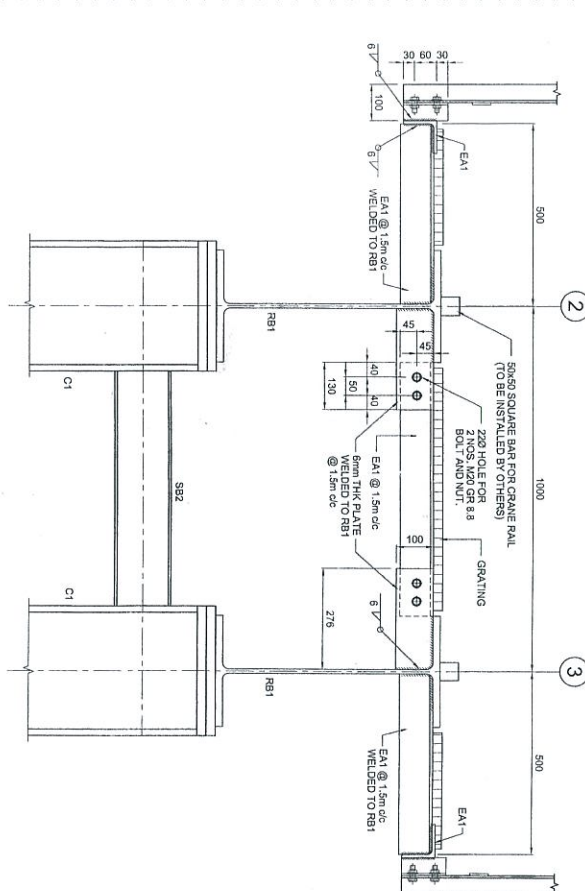
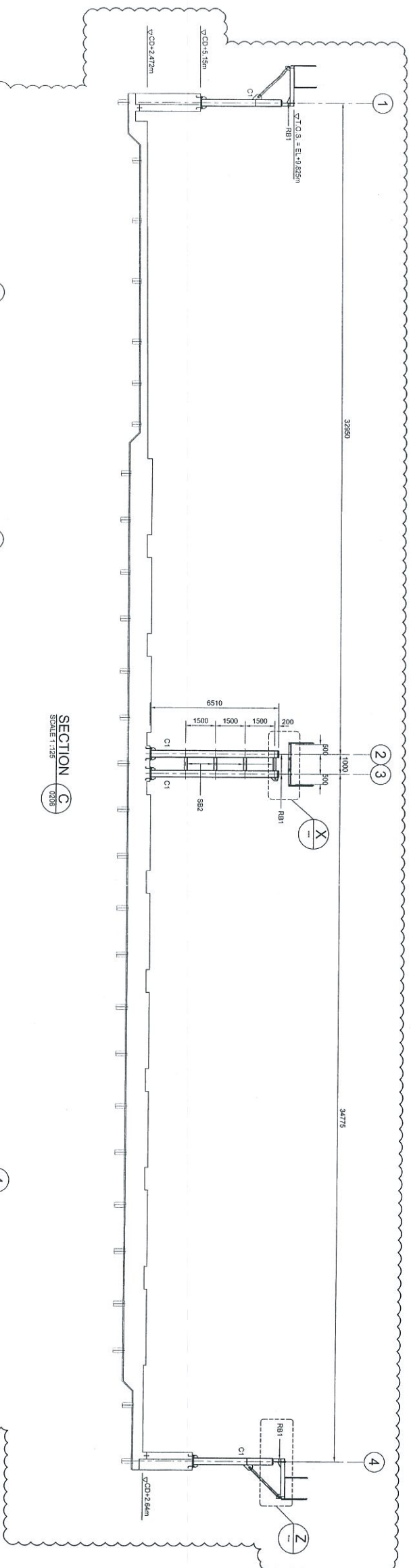
APPROVED : H.E. TEH

DATE : MARCH 2012

FILENAME : DH008-ENG-C-LP-0107-3

DWG. NO. : DH008-ENG-C-LP-0107

SHEET NO. / REV. : 3 / 3



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETER AND LENGTHS ARE IN METERS.
 2. FOR STRUCTURE NOTES REFER DWG NO. : DH0008-ENG-C-01-001.
 3. FOR RAINING OVERALL WATER PLOT PLAN REFER DWG NO. : DH0008-ENG-C-01-001.
 4. FOR GRADE SUPPORT OVERALL LAYOUT REFER DWG NO. : DH0008-ENG-C-01-001.
 5. FOR GRADE SUPPORT OVERALL LAYOUT REFER DWG NO. : DH0008-ENG-C-01-001.
 6. FOR STANDARD CONNECTIONS REFER DWG NO. : DH0008-ENG-C-01-001.
 7. FOR STANDARD BRACING DETAILS REFER DWG NO. : DH0008-ENG-C-01-001.
 8. FOR STEEL MEMBER DETAIL REFER DWG NO. : DH0008-ENG-C-01-001.

ABBREVIATIONS:

B1/04-01 : B1 = MEMBER SIZE & O4-01 = CONNECTION TYPE

LEGENDS:

TYPE	MARK	SIZE	REMARKS
COLUMN	C1	350x350x173 kg/m UB	1 - SECTION
RUNWAY BEAM	RB1	670x250x143 kg/m UB	1 - SECTION
STEEL BEAM	SB1	300x300x12 mm UC	1 - SECTION
STEEL BEAM	SB2	150x150x23 kg/m UC	1 - SECTION
STEEL BEAM	SB3	200x100x22 kg/m UC	1 - SECTION
STEEL BEAM	EA1	300x300x12 mm UC	EQUAL ANGLE
STEEL BEAM	EA2	100x100x10 mm THK	EQUAL ANGLE

PROJECT TITLE:
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENGERANG

PROJECT OWNER:
PENGERANG INDEPENDENT TERMINALS SDN BHD.

EPC CONTRACTOR:
DIALOG E & C SDN BHD. (189296-U)
109, BLOK G, PHLEO DAMANSARA 1,
NO. 9, JALAN 15/11, 48350 PETANG JAYA, SELANGOR

DRAWING TITLE:
LPS 301
STEEL STRUCTURE DETAILS

NO.	DESCRIPTION	BY	CHK'D	APPR.	DATE
1	ISSUED FOR CONSTRUCTION	EPH	WKL/ZI	LJM	15.03.13
2	ISSUED FOR APPROVAL	EPH	CJT	THE	27.08.12
3	RESUBMIT FOR REVIEW	EPH	CJT	THE	10.05.12
4	ISSUED FOR REVIEW	EPH	CJT	THE	06.03.12

SCALE: AS SHOWN

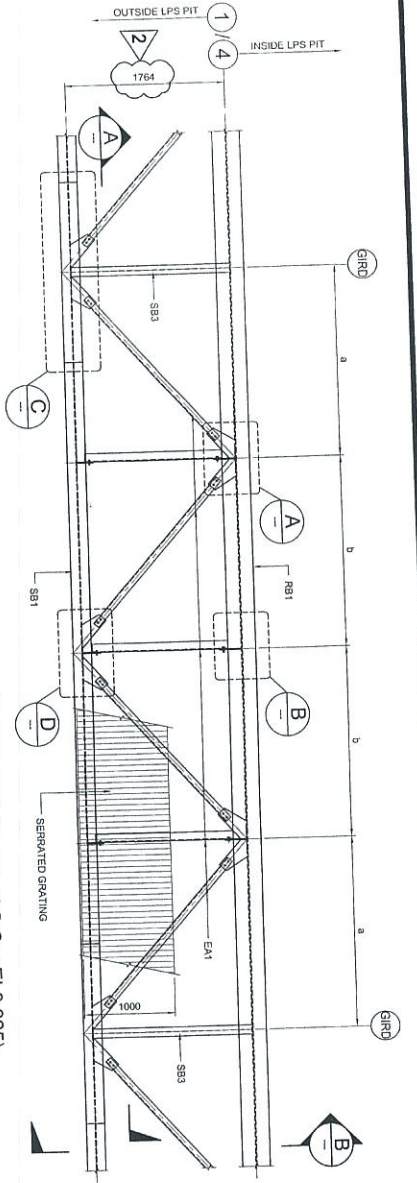
CHECKED: WKL/ZI

APPROVED: LJM

DATE: 12.12.12

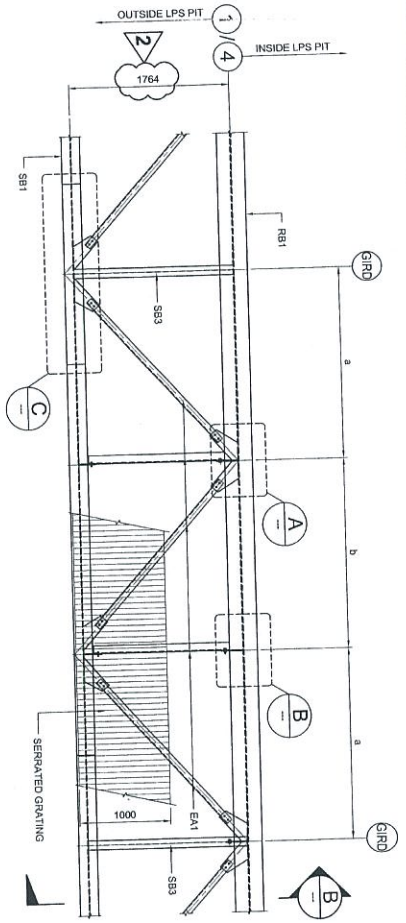
DWG. NO.: DH0008-ENG-C-LP-0108

REV.: (1 of 1) 2



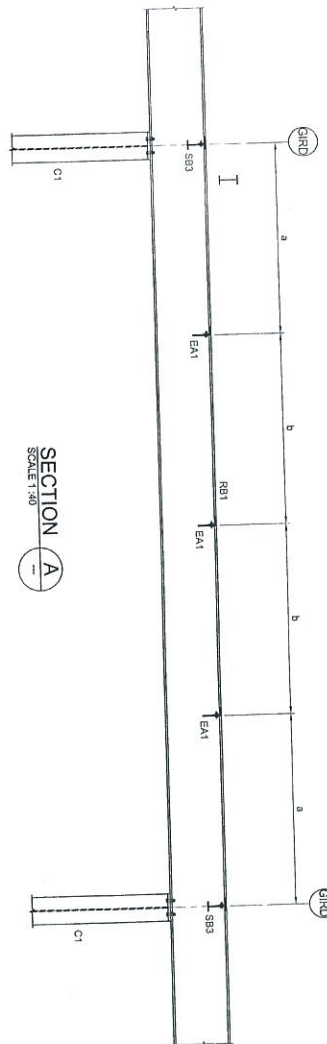
DETAIL OF CRANE GIRDER CG2, CG3, CG4, CG5 AND CG6 (PLAN - T.O.S.=EL9.825)
TOP OF GRATING = EL9.825
SCALE 1:40

GIRDER NO	a	b
CG2	2250	2250
CG3	2115	2115
CG4	2150	2202.5
CG5	1850	1850
CG6	1850	1847.5

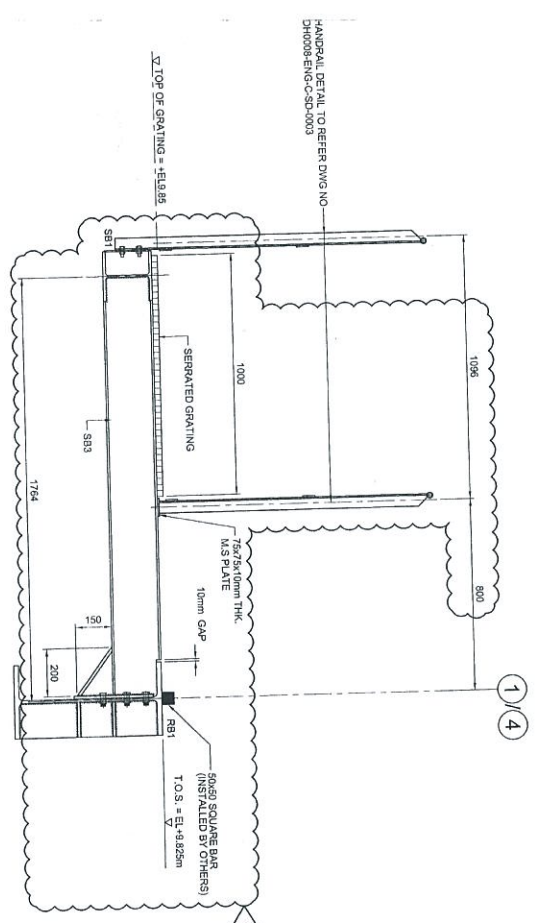


DETAIL OF CRANE GIRDER CG1 (PLAN - T.O.S.=+EL9.825)
TOP OF GRATING = EL9.825
SCALE 1:40

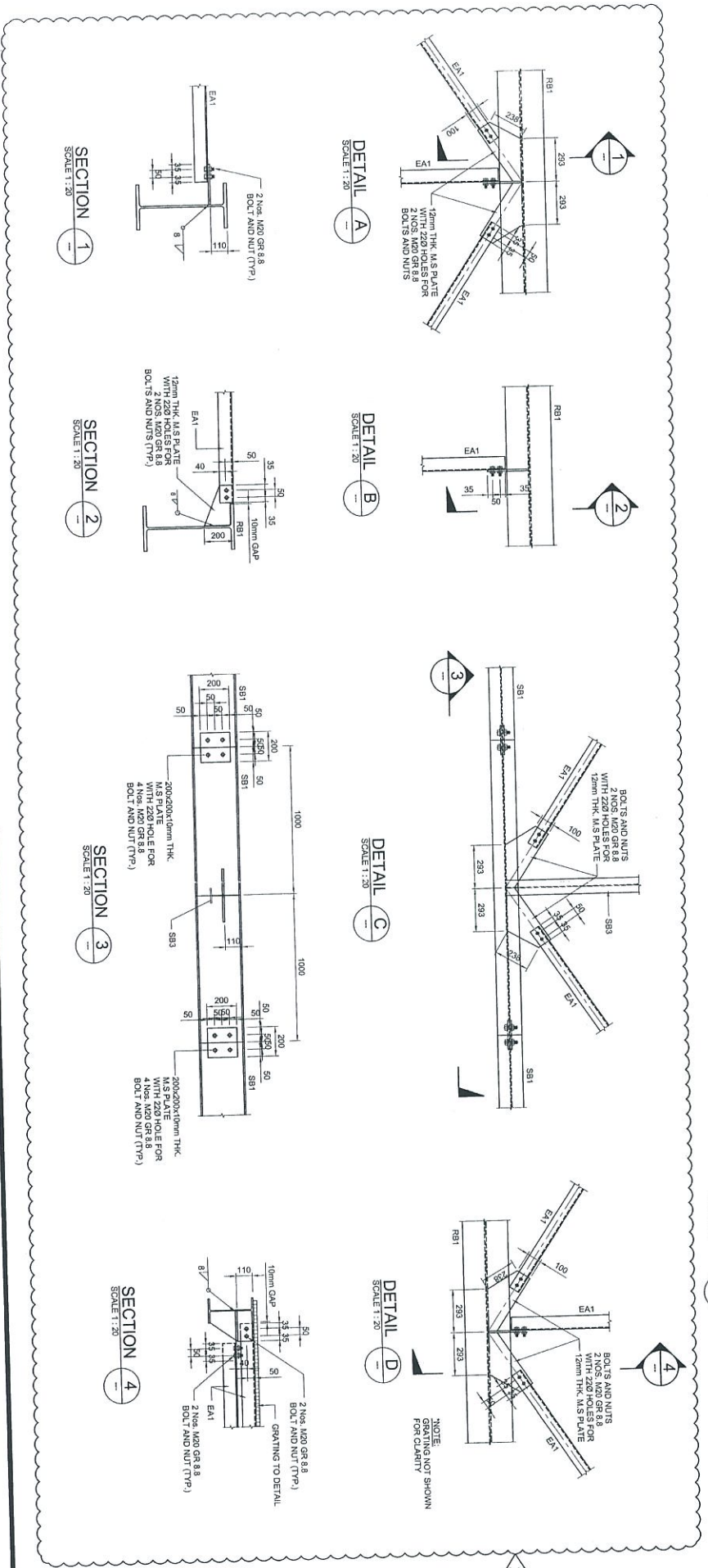
GIRDER NO	a	b
CG1	2000	2005



SECTION A-A
SCALE 1:30



SECTION B-B
SCALE 1:30



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER AND LEGALS ARE IN METERS.
2. FOR STRUCTURE NOTES REFER DWG NO : DH008-ENG-C-N-0001.
3. PACKAGING OVERALL MASTER PLAN REFER DWG NO : DH008-ENG-R-0-0001.
4. FOR CRANE SUPPORT OVERALL LAYOUT REFER DWG NO : DH008-ENG-C-LP-0007 AND DH008-ENG-C-LP-0008.
5. FOR STANDARD ANCHOR BOLTS DETAILS REFER DWG NO : DH008-ENG-C-S0-0001.
6. FOR STANDARD CONNECTIONS REFER DWG NO : DH008-ENG-C-S0-0011 TO 0020.
7. FOR STANDARD GRATING DETAILS REFER DWG NO : DH008-ENG-C-S0-0007.
8. FOR STEEL HANDRAIL DETAIL REFER DWG NO : DH008-ENG-C-S0-0003.

ABBREVIATIONS:

B/C/D-01 : B1 = MEMBER SIZE & C/D-01 = CONNECTION TYPE

LEGENDS:

TYPE	MARK	SIZE	REMARKS
COLU/MN	CB1	300x300x120 IPEM UB	1 - SECTION
ROWWAY BEAM	RB1	670x200x140 IPEM UB	1 - SECTION
STEEL BEAM	SB1	250x200x22 IPEM UB	1 - SECTION
STEEL BEAM	SB2	150x100x22 IPEM UB	1 - SECTION
STEEL BEAM	SB3	200x100x22 IPEM UB	1 - SECTION
STEEL BEAM	EA1	90x90x10mm THK	EQUAL ANGLE
STEEL BEAM	EA2	100x100x10mm THK	EQUAL ANGLE

NO	DESCRIPTION	BY	CHK'D	APPR.	DATE
1	ISSUED FOR CONSTRUCTION	EPUL	WKL/ZJ	LKY	15.05.13
2	ISSUED FOR APPROVAL	EPUL	WKL/ZJ	LKY	04.01.13
3	RESUBMIT FOR REVIEW	EPUL	WKL/ZJ	LKY	27.08.12
4	ISSUED FOR REVIEW	EPUL	WKL/ZJ	LKY	10.05.12
5	ISSUED FOR REVIEW	EPUL	WKL/ZJ	LKY	06.03.12

PROJECT TITLE :
INDEPENDENT DEEPWATER PETROLEUM TERMINAL AT PENERANG

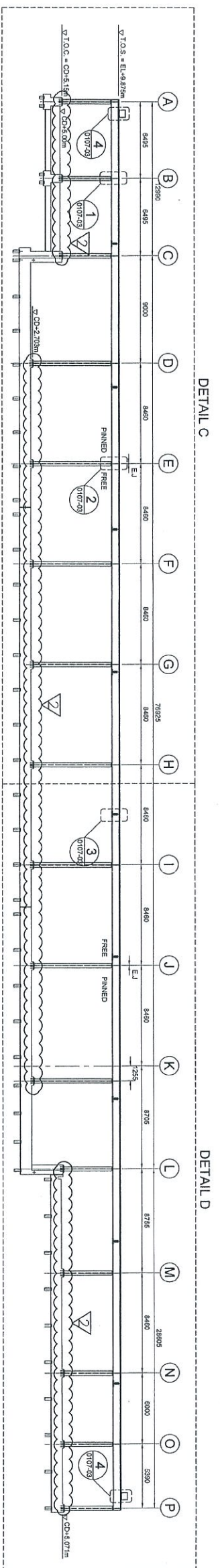
PROJECT OWNER :
PENERANG INDEPENDENT TERMINALS SDN.BHD.

EPCC CONTRACTOR :
DIALOG E & C SDN. BHD. (189296-U)

DIALOG
109, BLOCK 6, PHIED DAMPASKAN, 1
NO. 9, JALAN 18/11, 46330 FELDANG JAYA, SELANGOR.

DRAWING TITLE :
LPS 301
STEEL STRUCTURE DETAILS

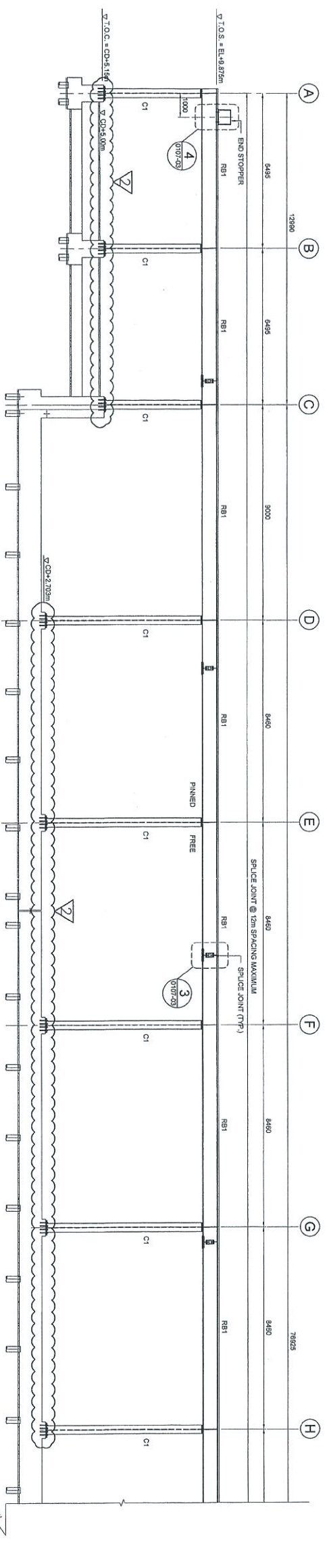
SCALE	AS SHOWN	CHECKED	WKL/ZJ
DRAWN	EPUL	APPROVED	LKY
DATE	12.12.12	FILENAME	DH008-ENG-C-LP-0110
DWG. NO.	DH0008-ENG-C-LP-0110	SHT. NO	REV.
		(1 of 1)	2



DETAIL C

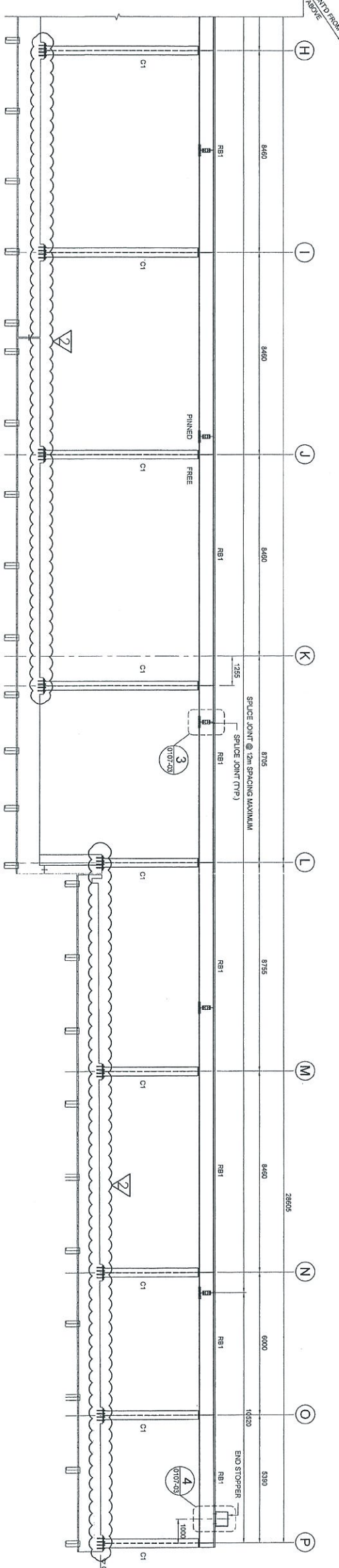
DETAIL D

SECTION B
SCALE 1:200



DETAIL B
SCALE 1:200

NOTE: ALL SPLICE JOINT FOR RUNWAY BEAM SHALL BE 12m SPACING MAXIMUM



DETAIL D
SCALE 1:200

NOTE: ALL SPLICE JOINT FOR RUNWAY BEAM SHALL BE 12m SPACING MAXIMUM

TYPE	MEMBER SCHEDULE FOR STEEL WORKS	REMARKS
COLUMN	C1	380x510x17.7mm UB
RUNWAY BEAM	R81	310x300x14.9mm UB
STEEL BEAM	S81	200x200x14.6mm UC
STEEL BEAM	S82	150x150x23.3mm UC
STEEL BEAM	E81	90x90x7mm IJK
		EQUAL ANGLE

NOTES:
1) T.O.S. POINTS TOP OF STEEL
2) C.O.S. POINTS EXPANSION JOINT

REV.	DESCRIPTION	BY	CHK	APPR.	DATE
2	ISSUE FOR CONSTRUCTION	EDP/TKM	EDP/CTI	EDP/TKM	18/05/12
1	ISSUE FOR APPROVAL	EDP/TKM	EDP/CTI	EDP/TKM	22/06/12
0	ISSUE FOR REVIEW	EDP/TKM	EDP/CTI	EDP/TKM	10/05/12
A	ISSUE FOR REVIEW	EDP/TKM	EDP/CTI	EDP/TKM	09/03/12

PROJECT TITLE :
CADANGAN MEMBINA TERMINAL PETROLEUM MARIN LAUT
BERBAS (INDEPENDENT DEEPWATER PETROLEUM TERMINAL)
YANG MENDAMPAI :
A) 105 UNIT TANGKI TERMINAL
B) 1 UNIT KEMADAMPAI MARIN
C) 1 BANGUNAN PELABAT 2 TINGKAT
D) BILAH PENGAJUAL
E) KEMUDAHAN KEMUDAHAN SOKONGAN LAIN
DI ATAS LOT PTD 4836, PTD 4837 DAN PTD 4838
MUKIM PENERANGAN, DAERAH KOTA TINGGI, JOHOR.

PROJECT OWNER :
PENERANGAN INDEPENDENT TERMINALS SDN. BHD.

EPC CONTRACTOR :
DIALOG
101, BLOCK C, PHILLO DAMANSARA 1,
NO. 9, JALAN 19/11, 4300 SETIAJAYA, SELANGOR.

CONSULTING ENGINEERS :
EDP CONSULTING GROUP SDN. BHD.
NO. 24-1, (1st Floor),
47700 Sepang, Selangor.
Tel : 03-55251000 Fax : 03-55251488

DRIVING TITLE :
LPS 301
STEEL STRUCTURAL SECTION AND ELEVATION

SCALE : AS SHOWN	CHECKED : YI. CHAI
DRAWN : A.C. LIM	APPROVED : H.E. TEH
DATE : MARCH 2012	FILENAME : 80008-ENG-C-UP-0107-3
DRG. NO. : DH0008-ENG-C-UP-0107	SHT. NO. REV. : 2 OF 3

