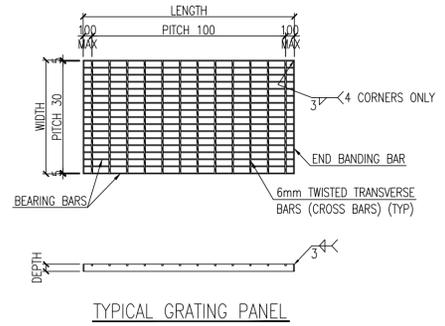
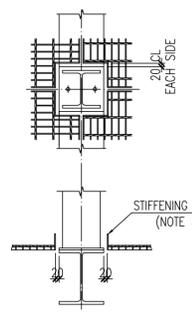


GENERAL NOTES

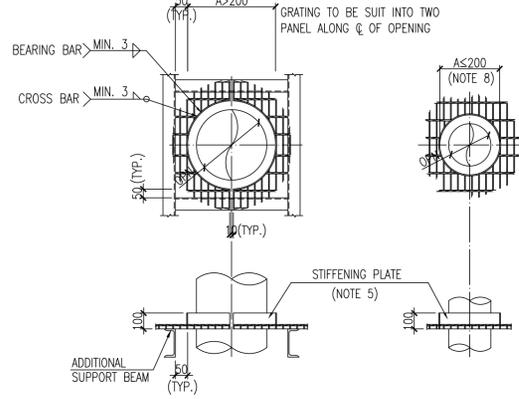
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. NGP-000-SCW-15.01-0002-00.
- GRATING PANELS AND TREADS SHALL BE HOT-DIP GALVANIZED.
- EACH GRATING PANEL TO BE FIXED TO FLOOR BEAMS BY MEANS OF AT LEAST 4 CLAMPS. (MIN. 4 CLAMPS PER 1M<sup>2</sup> SHALL BE PROVIDED FOR LARGE PANELS EXCEEDING 2M<sup>2</sup> THE WEIGHT OF EACH PANEL SHALL NOT BE HEAVIER THAN 75kg).
- THE WEIGHT OF THE REMOVABLE GRATING SHALL BE LESS THAN 245N.
- ADJACENT TO OPENINGS, CUT GRATING SHALL BE DESIGNED SUCH THAT IT CAN SUPPORT A LIVE LOAD OF 200KG/M<sup>2</sup> WITHOUT OVERSTRESS OR EXCESSIVE DEFLECTION. REINFORCEMENT WITH STIFFENING RINGS OR ADDITIONAL SUPPORT BEAMS SHALL BE PROVIDED AS APPROPRIATE DEPTH OF STIFFENING RINGS (PL-6) SHALL BE 100MM.
- WHERE DIMENSION "P" IS LESS THAN 120MM, THESE PLATES ARE NOT NECESSARY.
- CANTILEVERED GRATING PANEL SHALL BE CONTINUOUSLY SPANNED TO NEXT SUPPORT.
- WHERE OPENING DIAMETER IS LESS THAN 200mm, CUTTING OF THE GRATING SHALL BE EXECUTED AT SITE.
- SPANS AND LOADS IN THE SHADED AREA EXCEEDS A DEFLECTION OF 6.35mm FOR UNIFORM LOADS OF 4.88KN/M<sup>2</sup>, WHICH PROVIDE SAFE PEDESTRIAN COMFORT, BUT CAN BE EXCEEDED FOR OTHER TYPES OF LOADS AT THE DISCRETION OF THE ENGINEER.
- U- SAFE UNIFORM LOAD IN KN/M<sup>2</sup>  
C- SAFE CONCENTRATED LOADS IN KN/M OF GRATING WIDTH  
D- DEFLECTION IN mm



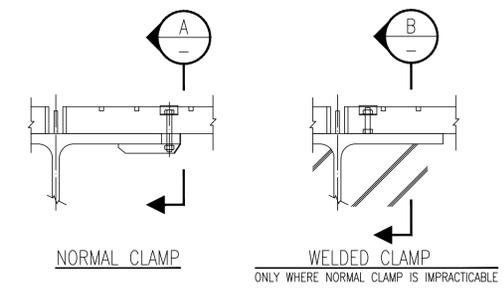
TYPICAL GRATING PANEL



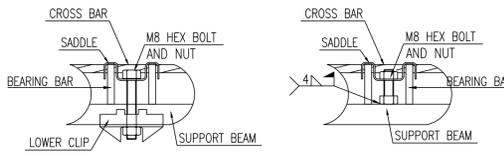
DETAIL 1 (SCALE 1:20)



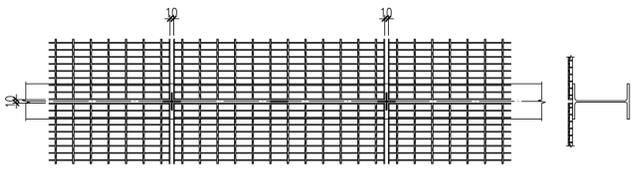
DETAIL 2 (SCALE 1:20)



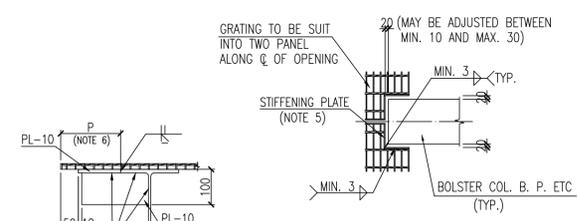
NORMAL CLAMP WELDED CLAMP  
ONLY WHERE NORMAL CLAMP IS IMPRACTICABLE



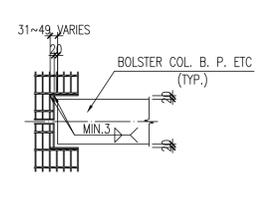
SECTION A (SCALE 1:20) SECTION B (SCALE 1:20)



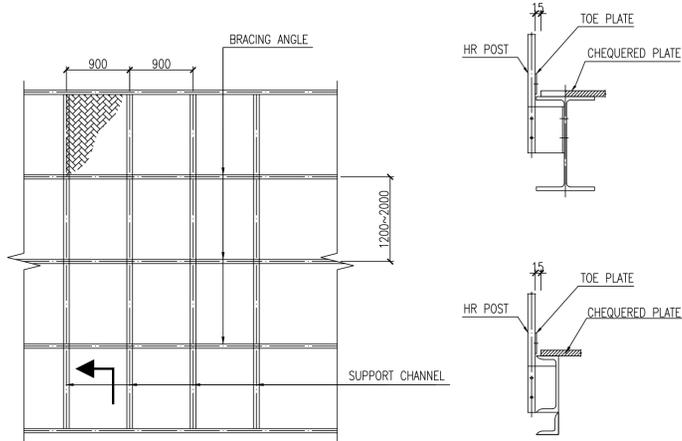
TYP FIXING FL GRATING PANEL



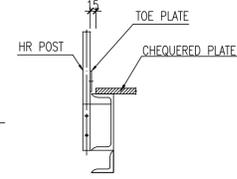
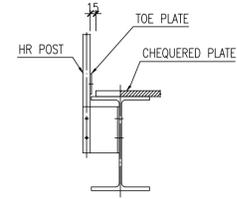
DETAIL 3 (SCALE 1:20)



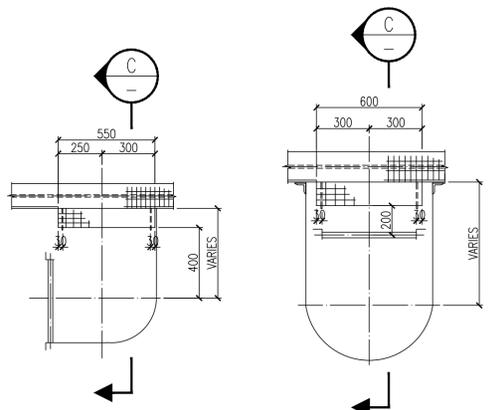
DETAIL 3 ALTERNATIVE (SCALE 1:20)



TYP FLOOR PLAN FOR CHEQUERED PLATE  
SPAN=900mm FOR 4 KN/M<sup>2</sup>

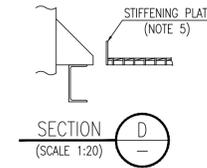


SECTION C (SCALE 1:10) SECTION D (SCALE 1:10)

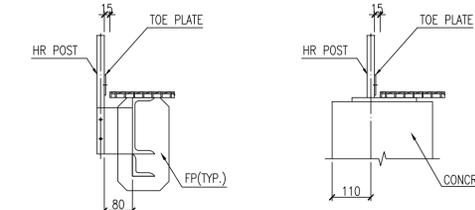
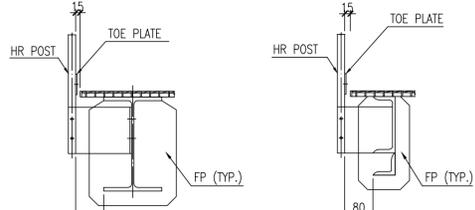
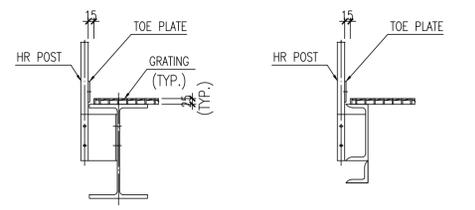


DETAIL 4 (SCALE 1:20)

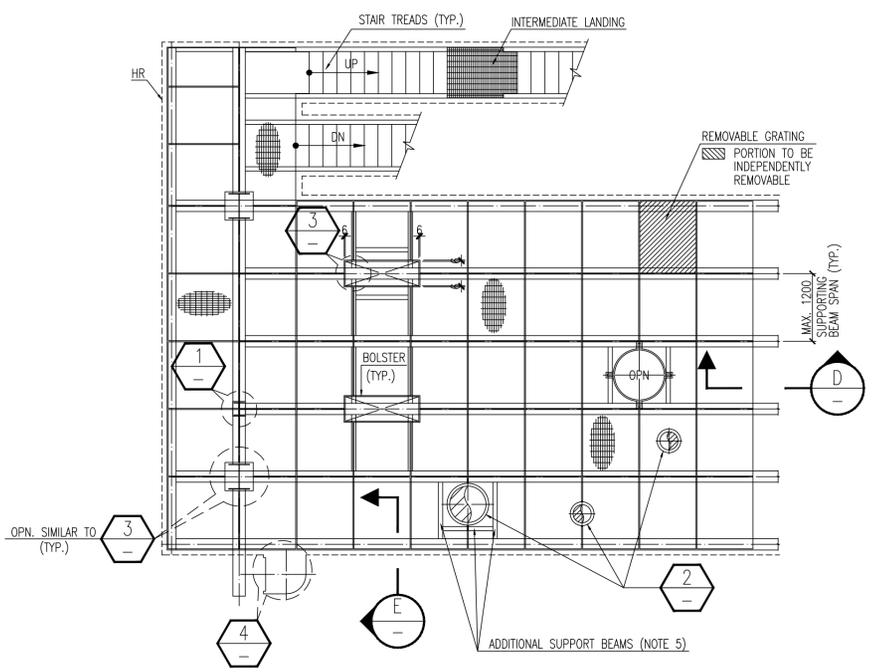
DETAIL 4 ALTERNATIVE (SCALE 1:20)



SECTION E (SCALE 1:20)



SECTION E (SCALE 1:10)



TYPICAL FLOOR PLAN FOR GRATING PLATE

BEARING BAR SIZE	NOMINAL WL. KG/M <sup>2</sup>	SPAN													
		610	762	914	1067	1219	1372	1524	1676	1829	1981	2134	2438	2743	
19X3	19.530	U	18.5	11.8	8.2	4.6	2.6								
		C	2.41	3.84	5.49	7.45	9.5	12.34							
		D	5.6	4.5	3.8	3.2	2.8	2.5							
		D	1.93	3.02	4.39	6.04	7.84	9.58							
19X5	27.342	U	27.7	17.7	12.4	9	6.6	5.5							
		C	2.41	3.84	5.49	7.49	9.5	12.34							
		D	8.4	6.7	5.6	4.8	4.2	3.8							
		D	1.93	3.02	4.39	5.94	7.65	9.58							
25X3	24.900	U	32.8	21	14.6	10.2	8.2	6.5	5.4						
		C	1.83	2.82	4.04	5.56	7.32	9.3	11.46	13.88	17.98				
		D	10	8	6.7	5.7	5	4.5	4	3.6	3.3				
		D	1.45	2.29	3.28	4.47	5.87	7.44	9.14	11.01	13.16				
25X5	35.642	U	49.3	31.6	22	16.2	12.3	9.7	7.8	6.5	5.5				
		C	1.83	2.82	4.04	5.56	7.32	9.3	11.46	13.88	17.98				
		D	15	12	10	8.6	7.5	6.7	6	5.5	5				
		D	1.45	2.29	3.28	4.47	5.87	7.44	9.14	11.01	13.16				
32X3	29.783	U	51.3	32.8	22.8	16.8	12.8	10.2	8.2	6.8	5.7	4.8	4.1		
		C	1.45	2.29	3.28	4.47	5.87	7.39	9.09	11	13.2	15.44	17.88		
		D	15.6	12.5	10.4	8.9	7.8	7	6.3	5.7	5.2	4.8	4.5		
		D	1.17	1.83	2.64	3.58	4.65	5.92	7.32	8.86	10.57	12.47	14.35		
32X5	43.454	U	77	49.2	34.3	25.2	19.3	15.2	12.4	10.2	8.6	7.5	6.2		
		C	23.5	18.8	15.7	13.4	11.7	10.4	9.4	8.5	7.8	7.2	6.7		
		D	1.17	1.83	2.64	3.58	4.65	5.92	7.32	8.86	10.57	12.47	14.35		
		D	73.9	47.3	32.8	24.2	18.5	14.7	11.9	9.8	8.2	7.1	6.3	5.5	
38X3	35.642	U	119	1.91	2.69	3.73	4.88	6.17	7.62	9.27	11	12.85	14.91	17.06	
		C	22.5	18	15	12.9	11.3	10	9	8.2	7.5	6.9	6.4	6	
		D	0.97	1.5	2.21	2.97	3.91	4.95	6.12	7.34	8.81	10.31	11.94	13.6	
		D	150.9	96.5	67.1	49.3	37.7	29.8	24.2	19.9	16.8	14.3	12.4	10.7	
38X5	51.754	U	111.1	71.1	49.4	36.3	27.8	21.9	17.8	14.7	12.4	10.6	9.1	8	
		C	33.9	27.1	22.6	19.3	16.9	15	13.5	12.3	11.3	10.4	9.7	9	
		D	0.97	1.5	2.21	2.97	3.91	4.95	6.12	7.34	8.81	10.31	11.94	13.6	
		D	107.1	63	43.3	32	24.9	19.8	15.6	12.4	10.3	8.8	7.6	6.6	
44X5	59.566	U	146	88.8	59.6	42.6	32	24.9	19.8	15.6	12.4	10.3	8.8	7.6	
		C	0.84	1.32	1.88	2.57	3.35	4.24	5.23	6.32	7.54	8.81	10.24	11.8	
		D	197.1	126.1	87.6	64.4	49.3	38.9	31.6	26.1	22	18.8	16.2	14.2	
		D	0.91	1.42	2.06	2.82	3.66	4.65	5.74	6.93	8.26	9.75	11.35	13.1	
51X5	67.866	U	249.4	159.5	112.1	80	62.3	49.2	40	33	27.9	23.7	20.5	17.7	
		C	0.81	1.27	1.83	2.49	3.23	4.11	5.05	6.12	7.29	8.59	9.98	11.5	
		D	76	60.8	50.7	42.6	36	33.8	30.4	27.6	25.3	23.4	21.7	19	
		D	0.66	0.99	1.45	2.01	2.59	3.28	4.06	4.93	5.84	6.86	7.98	9.21	
57X5	75.189	U	308	197	136.8	100.5	77	60.9	49.3	40.7	34.5	29.4	25.3	19.4	
		C	0.71	1.12	1.63	2.24	2.95	3.68	4.57	5.51	6.6	7.75	8.99	10.31	
		D	93.9	75.1	62.5	53.6	46.9	41.7	37.5	34.1	31.2	28.9	26.8	23.5	
		D	0.58	0.91	1.3	1.8	2.34	2.95	3.66	4.39	5.26	6.15	7.16	8.27	

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR STRUCTURAL STEEL WORKS	NGP-000-SCW-15.01-0002-00

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
00	Approved for Construction	Xing Kun	Chen ChQ	Li Zhiguang	Zhang WH	24/06/2016
C	Issued for Approval	Xing Kun	Chen ChQ	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Xing Kun	Chen ChQ	Li Zhiguang	Zhang WH	28/03/2016
A	Internal Discipline Check	Xing Kun	Chen ChQ	Li Zhiguang	Zhang WH	13/01/2016

CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**  
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CONTRACTOR: **HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED**

PROJECT NO. NASHPA 1247

DRAWING NO. NGP-000-SCW-15.01-0017-00

PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015

DRAWING TITLE: STANDARD DRAWING OF GRATING FLOOR

REV. SCALE SHEET  
 00 NTS 1 OF 1