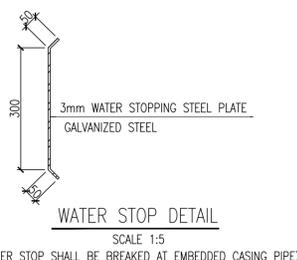
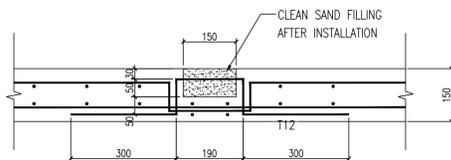
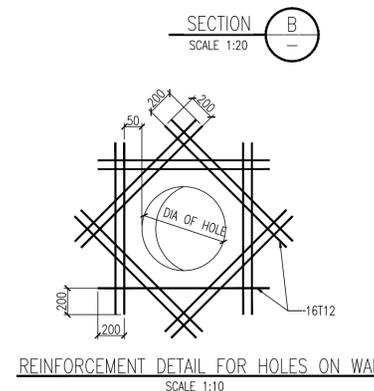
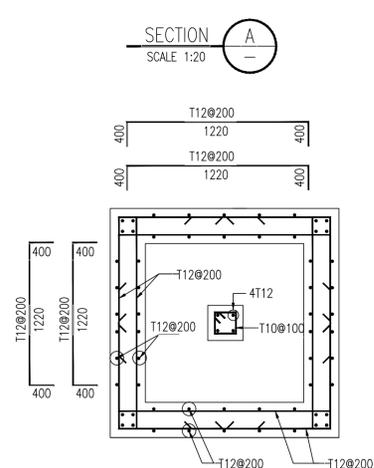
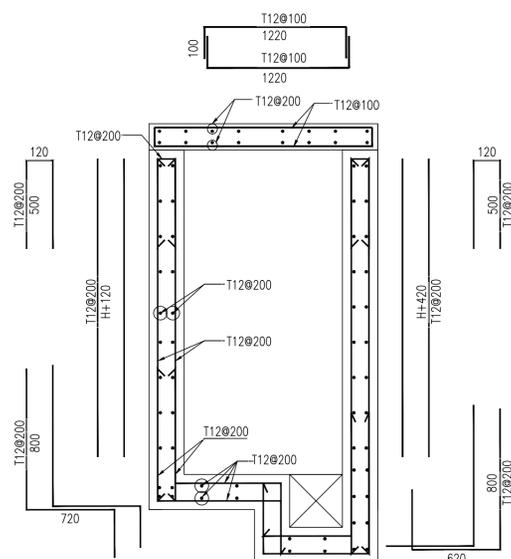
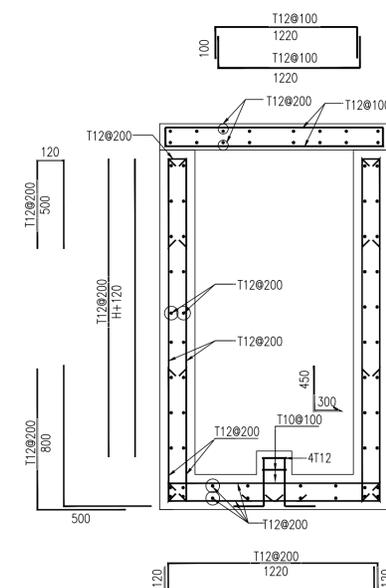
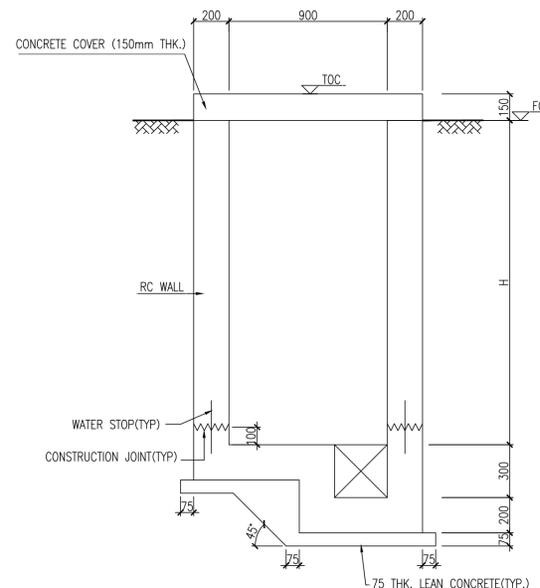
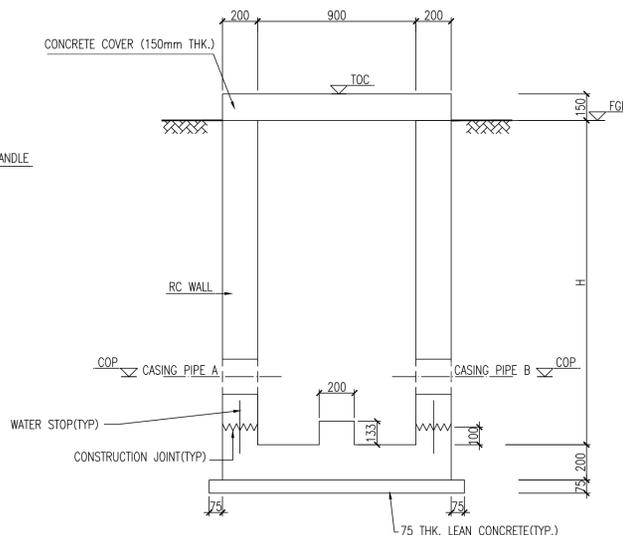
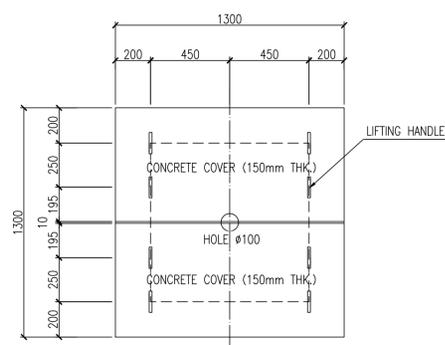
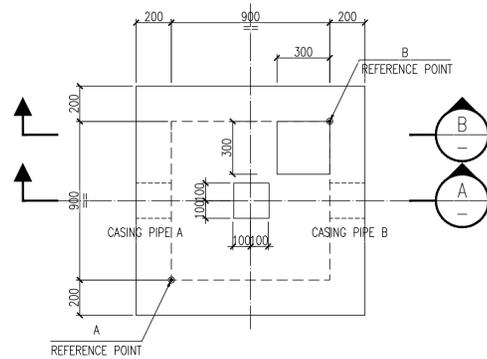


GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
- YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
- INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
- FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
- FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
- CASING PIPE REFER TO PIPE SLEEVE THRU WALL DETAIL IN DWG NO. NGP-008-PIP-15.01-0003-00.
- FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED AASHTO DRY DENSITY. THE SELECTED FILL MATERIAL SHOULD BE A-3/A-4 SOIL AND SHOULD BE TESTED BEFORE LAYING ON SITE.
- PITS IN THIS SHEET ARE ONLY FOR FIRE WATER SYSTEM.



SCHEDULE OF VALVE PIT (TYP-1)										SCHEDULE OF VALVE PIT (TYP-1)										SCHEDULE OF VALVE PIT (TYP-1)												
NO	DIAGONAL COORDINATES				FGL m	CASING PIPE SIZE(mm) & ELEVATION (INSIDE COP)				DEPTH H(mm)	NO	DIAGONAL COORDINATES				FGL m	CASING PIPE SIZE(mm) & ELEVATION (INSIDE COP)				DEPTH H(mm)	NO	DIAGONAL COORDINATES				FGL m	CASING PIPE SIZE(mm) & ELEVATION (INSIDE COP)				DEPTH H(mm)
	A	N	E	B		A	N	E	B			A	N	E	B		A	N	E	B			A	N	E	B		A	N	E	B	
VP-1	N=3683340.314	N=3683339.272	E=715004.925	E=715005.655	559.84	323.8x10.31	558.47	323.8x10.31	558.47	1800	N=3683373.053	N=3683372.169	E=714674.579	E=714675.494	561.90	323.8x10.31	560.66	323.8x10.31	560.66	1670	N=3683137.904	N=3683138.788	E=714716.041	E=714716.957	569.23	323.8x10.31	568.30	323.8x10.31	568.30	1360		
VP-2	N=3683409.417	N=3683410.053	E=714965.784	E=714966.886	556.27	323.8x10.31	555.31	323.8x10.31	555.31	1390	N=3683291.987	N=3683291.087	E=714692.842	E=714691.942	563.00	323.8x10.31	562.15	323.8x10.31	562.15	1280	N=3683139.591	N=3683140.476	E=714635.140	E=714636.056	569.63	323.8x10.31	568.78	323.8x10.31	568.78	1280		
VP-3	N=3683529.496	N=3683530.170	E=714988.674	E=714989.754	555.35	323.8x10.31	553.76	323.8x10.31	553.76	2020	N=3683427.345	N=3683426.445	E=714818.798	E=714819.698	556.31	323.8x10.31	555.38	323.8x10.31	555.38	1360	N=3683084.047	N=3683084.947	E=714799.788	E=714800.639	571.67	323.8x10.31	570.20	323.8x10.31	570.20	1900		
VP-4	N=3683543.390	N=3683544.026	E=714776.032	E=714777.134	550.85	323.8x10.31	550.00	323.8x10.31	550.00	1280	N=368322.253	N=368321.353	E=714818.798	E=714819.698	561.09	323.8x10.31	559.72	323.8x10.31	559.72	1800	N=3683096.643	N=3683095.743	E=714893.640	E=714894.540	569.79	323.8x10.31	568.42	323.8x10.31	568.42	1800		
VP-5	N=3683485.817	N=3683486.510	E=714653.387	E=714654.455	561.26	323.8x10.31	559.79	323.8x10.31	559.79	1900	N=3683291.087	N=3683291.987	E=714830.020	E=714830.920	562.07	323.8x10.31	561.03	323.8x10.31	561.03	1470	N=3683010.237	N=3683009.337	E=714893.640	E=714894.540	571.95	323.8x10.31	570.99	323.8x10.31	570.99	1390		
VP-6	N=3683457.943	N=3683458.636	E=714786.548	E=714787.616	556.25	323.8x10.31	555.09	323.8x10.31	555.09	1590	N=3683291.087	N=3683291.987	E=714932.977	E=714933.877	561.45	323.8x10.31	560.29	323.8x10.31	560.29	1590	N=3683010.933	N=3683010.033	E=714676.697	E=714677.597	572.05	323.8x10.31	571.09	323.8x10.31	571.09	1390		
VP-7	N=3683412.804	N=3683411.920	E=714563.648	E=714564.563	560.90	323.8x10.31	559.97	323.8x10.31	559.97	1360	N=3683194.382	N=3683193.202	E=714951.561	E=714952.038	566.51	323.8x10.31	565.66	323.8x10.31	565.66	1280	N=3683010.933	N=3683010.033	E=714566.745	E=714567.879	563.56	323.8x10.31	562.40	323.8x10.31	562.40	1590		
VP-8	N=3683312.586	N=3683311.671	E=714619.831	E=714618.947	562.86	323.8x10.31	561.70	323.8x10.31	561.70	1590	N=3683127.644	N=3683128.374	E=714806.437	E=714807.480	567.99	323.8x10.31	567.14	323.8x10.31	567.14	1280												

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
TYPICAL DRAWINGS OF WATER EQUIPMENTS AREA	NGP-008-PIP-15.01-0003-00
PIPING LAYOUT FOR FIRE WATER SYSTEM(UNIT-35)	NGP-007-FIF-15.01-0004-24-01

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang Ziqiang	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	08/04/2016
A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016

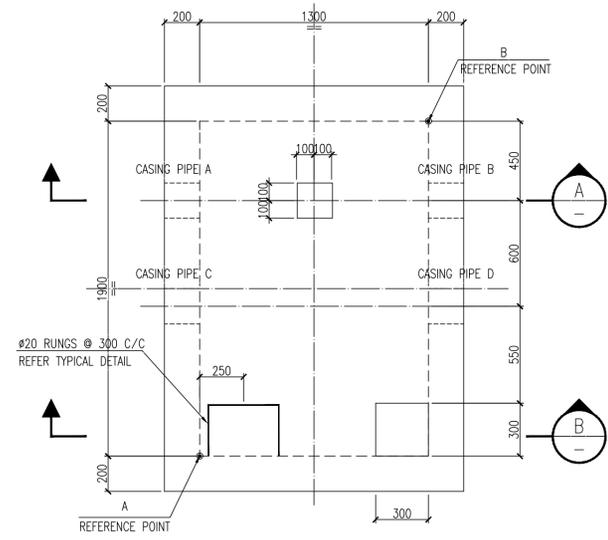
CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**
 60/60 HOUSE TOWER B, FIRST FLOOR PH-6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 TEL: (92-91) 34393045-48, 34310151-54, FAX: (92-91) 34533430 & 34510156
 E-MAIL: CONTACT@ZISHANENGINEERS.COM WEBSITE: WWW.ZISHANENGINEERS.COM

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
 An ISO 9001:2008 certified company
 47/F Block 6, PECHS, Karachi-Pakistan
 Tel: (92-91) 34393045-48, 34310151-54, Fax: (92-91) 34533430 & 34510156
 E-Mail: CONTACT@ZISHANENGINEERS.COM WEBSITE: WWW.ZISHANENGINEERS.COM

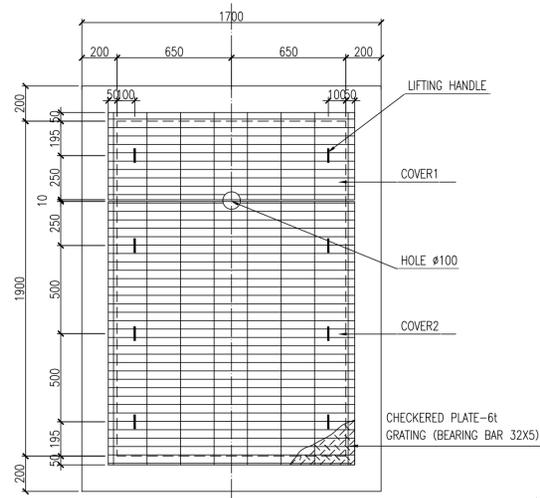
CONTRACTOR: HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED	PROJECT NO. NASHPA 1247
PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015	DRAWING NO. NGP-000-SCW-15.01-0009-00
DRAWING TITLE: STANDARD DETAIL OF VALVE PIT	REV. SCALE SHEET
	01 AS SHOWN 1 OF 18

GENERAL NOTES

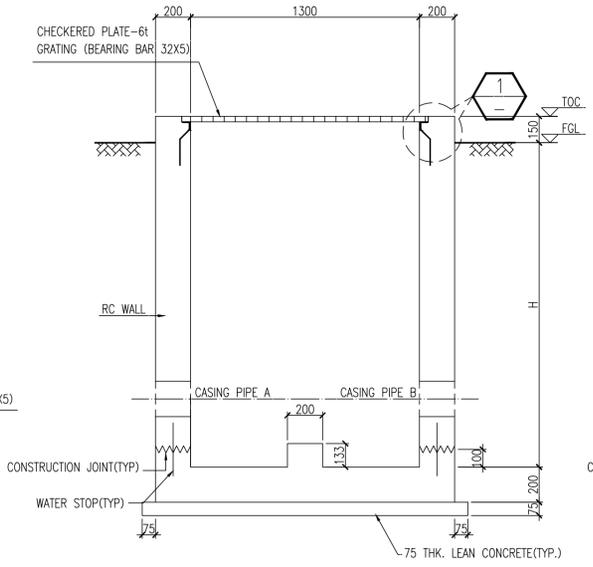
- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
- YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
- INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
- FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
- FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
- CASING PIPE REFER TO PIPE SLEEVE THRU WALL DETAIL IN DWG NO. NGP-008-PIP-15.01-0003-00.
- FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED AASHTO DRY DENSITY. THE SELECTED FILL MATERIAL SHOULD BE A-3/A-4 SOIL AND SHOULD BE TESTED BEFORE LAYING ON SITE.
- PITS IN THIS SHEET ARE ONLY FOR FIRE WATER SYSTEM.



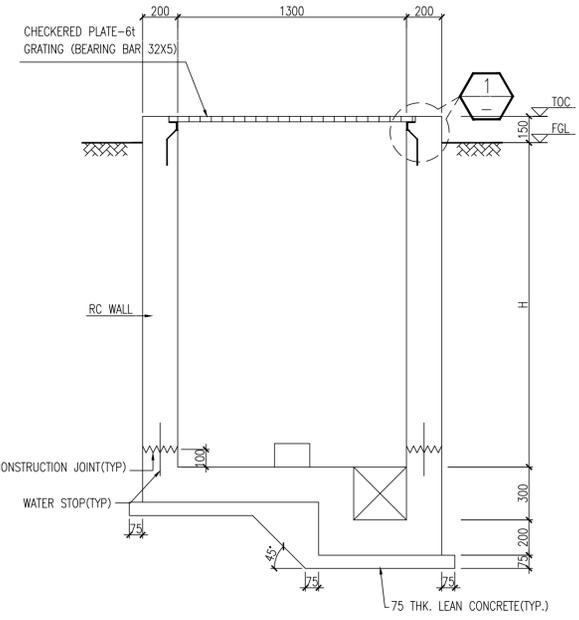
PLAN OF VALVE PIT(TYP-2)
(FOR FIRE WATER SYSTEM)
SCALE 1:20



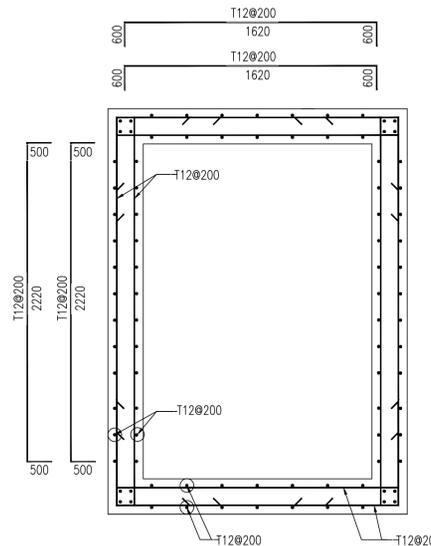
VALVE PIT COVER PLAN(TYP-2)
SCALE 1:20



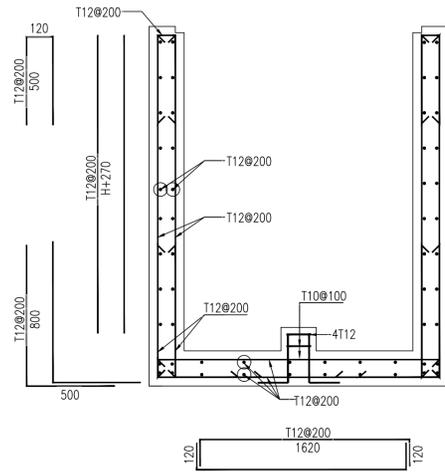
SECTION A
(SCALE 1:20)



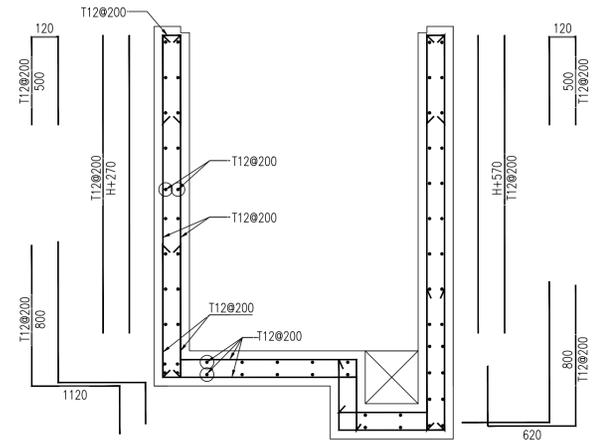
SECTION B
SCALE 1:20



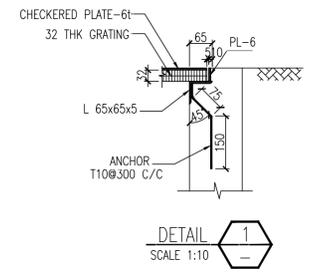
PLAN OF VALVE PIT(TYP-2)
REINFORCEMENT DETAIL
SCALE 1:20



SECTION A
REINFORCEMENT DETAIL
SCALE 1:20



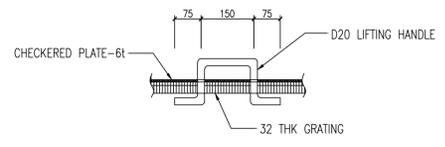
SECTION B
REINFORCEMENT DETAIL
SCALE 1:20



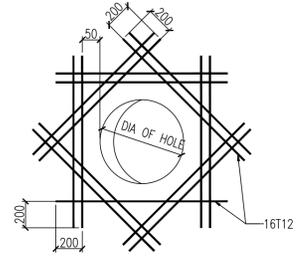
DETAIL 1
SCALE 1:10



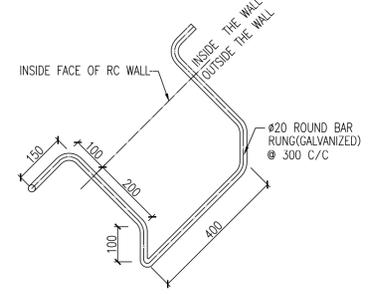
WATER STOP DETAIL
SCALE 1:5
(WATER STOP SHALL BE BROKEN AT EMBEDDED CASING PIPE)



LIFTING HANDLE DETAIL(TYP)
SCALE 1:10



REINFORCEMENT DETAIL FOR HOLES ON WALL
SCALE 1:10



TYPICAL DETAILS OF RUNG
SCALE 1:10

SCHEDULE OF VALVE PIT (TYP-2)														
NO	DIAGONAL COORDINATES				FGL m	CASING PIPE SIZE(mm) & ELEVATION (INSIDE COP)								DEPTH H(mm)
	A	N	B	N		CASING PIPE		CASING PIPE		CASING PIPE		CASING PIPE		
VP-24	N=3683514.462	N=3683515.961	E=714827.943	E=714829.690	559.98	323.8x10.31	558.94	323.8x10.31	558.94	Ø219.1x8.18	558.94	Ø219.1x8.18	558.94	1470
VP-25	N=3683513.631	N=3683515.153	E=714582.550	E=714580.823	549.73	323.8x10.31	548.69	323.8x10.31	548.69	Ø219.1x8.18	548.69	Ø219.1x8.18	548.69	1470

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
TYPICAL DRAWINGS OF WATER EQUIPMENTS AREA	NGP-008-PIP-15.01-0003-00
PIPING LAYOUT FOR FIRE WATER SYSTEM(UNIT-35)	NGP-007-FIF-15.01-0004-24-01

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang Ziqiang	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	08/04/2016
A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016

CLIENT
OIL&GAS DEVELOPMENT COMPANY LTD.
ODDCL HOUSE TOWER-B, FIRST FLOOR F-6/6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
FAX: +92 91 2629553, PHONE: +92 91 4209859

CONSULTANT.
Zishan Engineers (Pvt.) Ltd.
An ISO 9001:2008 certified company
47/F Block 6, PECHS, Karachi-Pakistan
Tel: (92-91) 34393045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

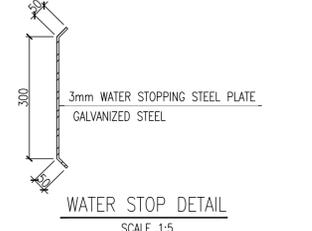
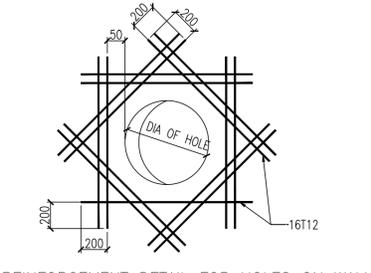
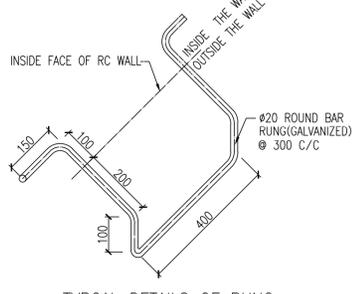
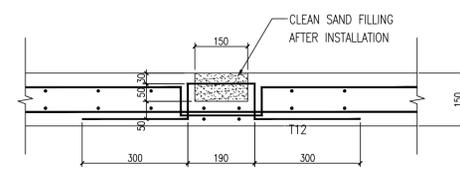
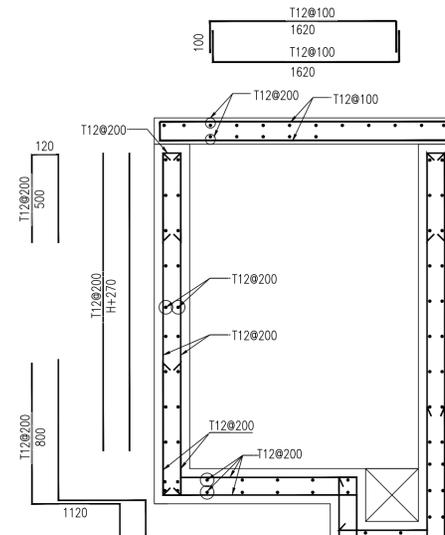
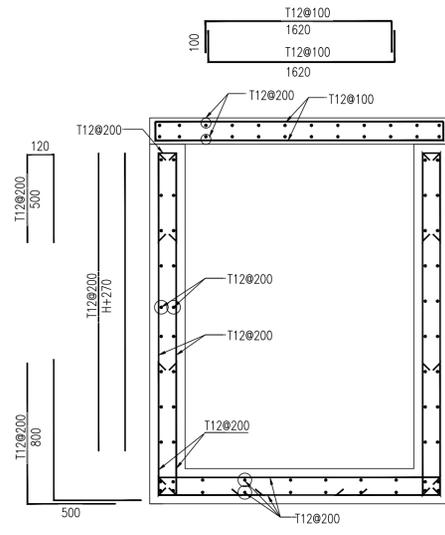
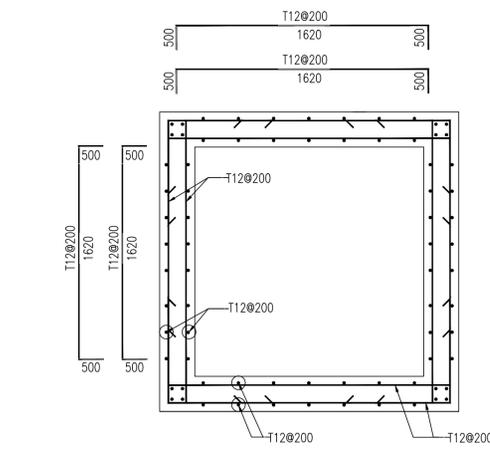
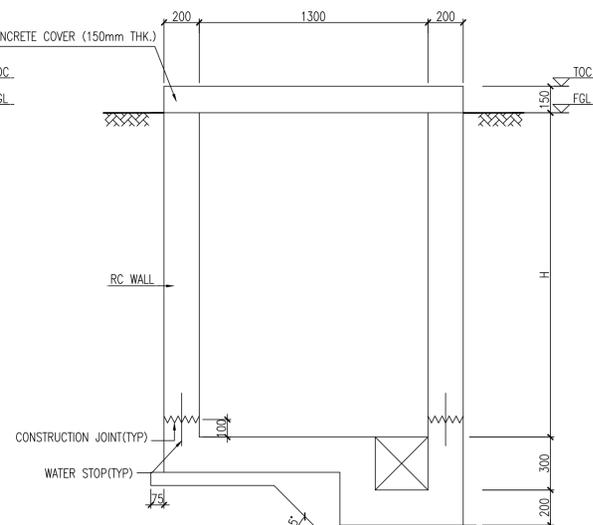
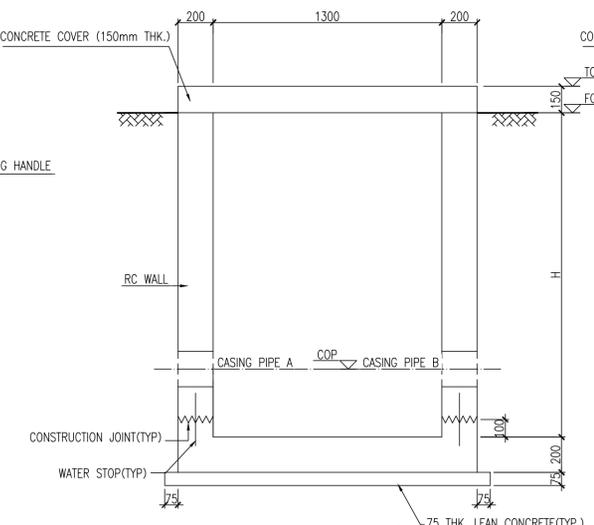
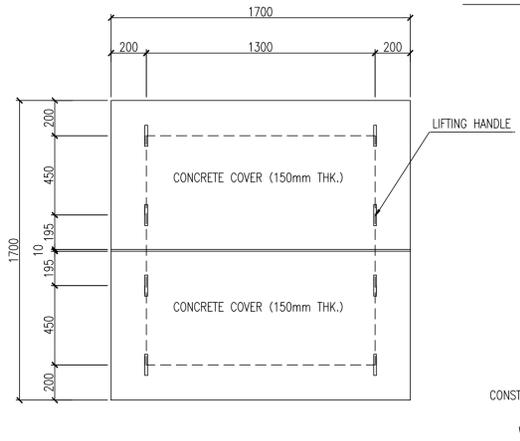
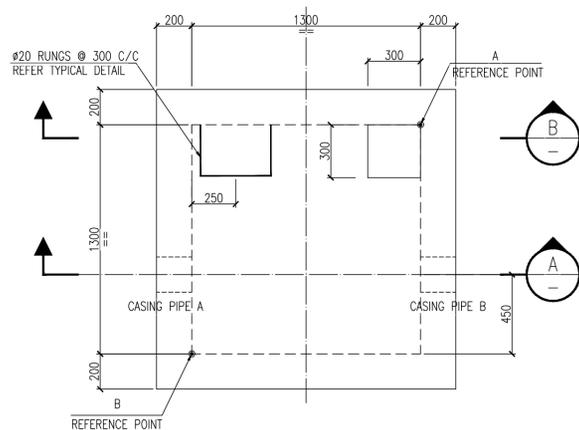
CONTRACTOR.
HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED
PROJECT NO. NASHPA 1247

PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015
DRAWING NO. NGP-000-SCW-15.01-0009-00

DRAWING TITLE: STANDARD DETAIL OF VALVE PIT
REV. SCALE SHEET
01 AS SHOWN 2 OF 18

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
- YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
- INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
- FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
- FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
- CASING PIPE REFER TO PIPE SLEEVE THRU WALL DETAIL IN DWG NO. NGP-008-PIP-15.01-0003-00.
- FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED AASHTO DRY DENSITY. THE SELECTED FILL MATERIAL SHOULD BE A-3/A-4 SOIL AND SHOULD BE TESTED BEFORE LAYING ON SITE.
- PITS IN THIS SHEET ARE ONLY FOR FIRE WATER SYSTEM.



REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
TYPICAL DRAWINGS OF WATER EQUIPMENTS AREA	NGP-008-PIP-15.01-0003-00
PIPING LAYOUT FOR FIRE WATER SYSTEM(UNIT-35)	NGP-007-FIF-15.01-0004-24-01

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	08/04/2016
A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016

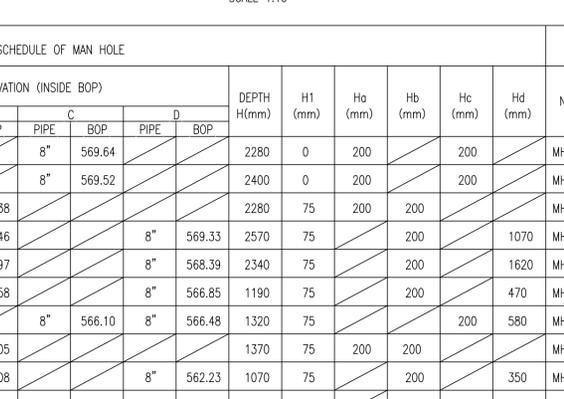
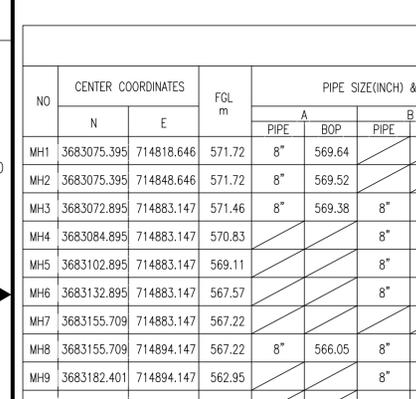
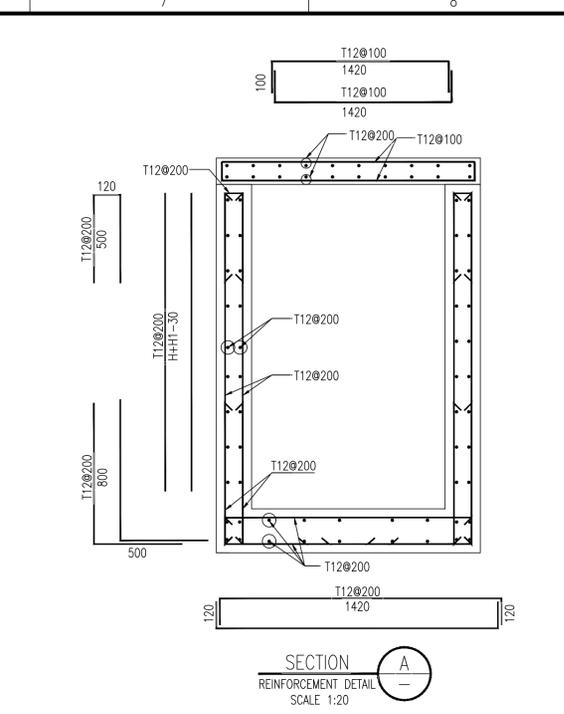
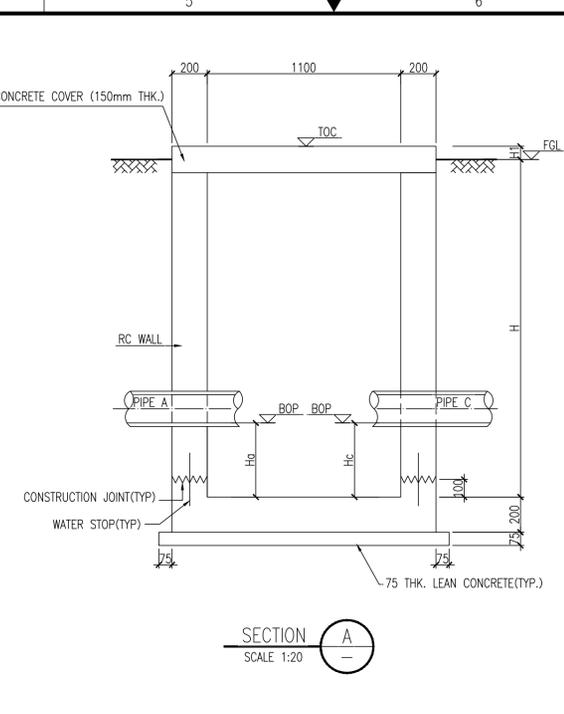
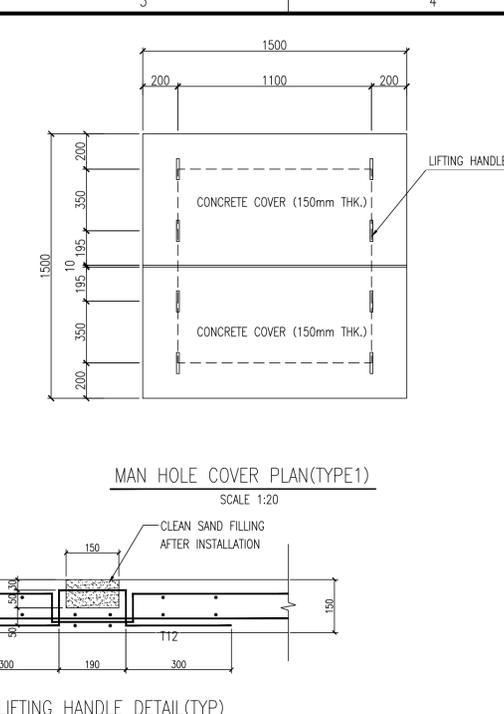
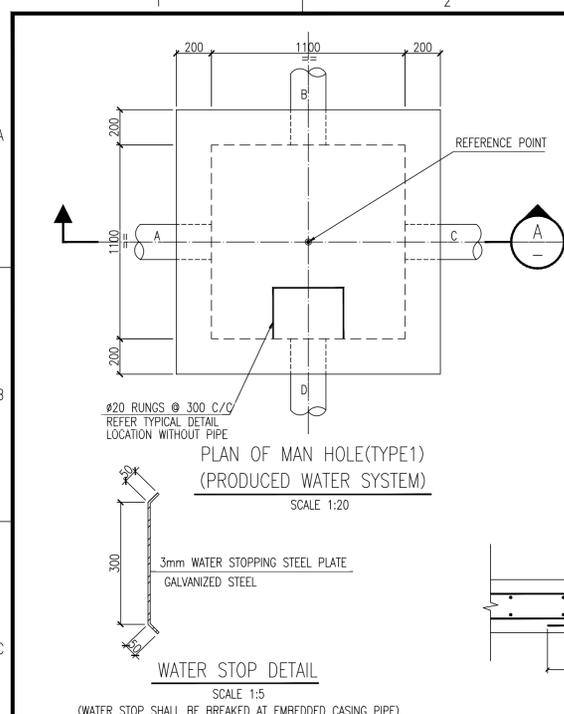
CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**
 05/01 HOUSE TOWER-B, FIRST FLOOR F-6/6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: +92 051 2620553, PHONE: +92 051 4208850

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
 An ISO 9001-2008 certified company
 47/F Block 6, PECHS, Karachi-Pakistan
 Tel: (92-91) 3433045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

CONTRACTOR: **HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED** PROJECT NO. NASHPA 1247

PROJECT TITLE: **NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015** DRAWING NO. NGP-000-SCW-15.01-0009-00

DRAWING TITLE: **STANDARD DETAIL OF VALVE PIT** REV. SCALE SHEET 01 AS SHOWN 3 OF 18

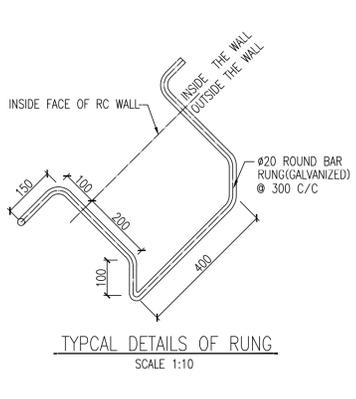
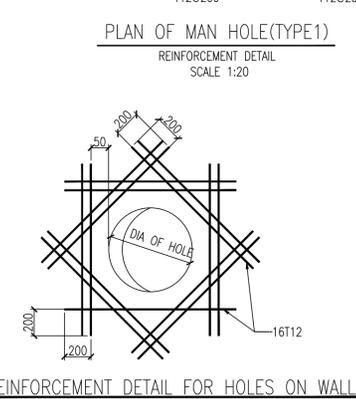
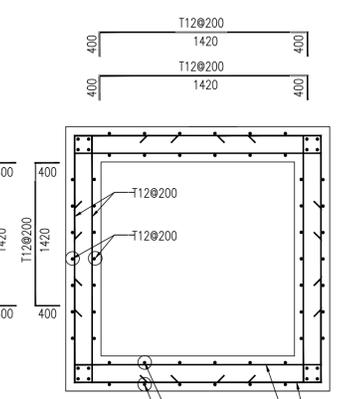


SCHEDULE OF MAN HOLE

NO	CENTER COORDINATES		FGL m	PIPE SIZE(INCH) & ELEVATION (INSIDE BOP)				DEPTH H(mm)	H1 (mm)	H _a (mm)	H _b (mm)	H _c (mm)	H _d (mm)
	N	E		PIPE A	BOP	PIPE B	BOP						
MH1	3683075.395	714818.646	571.72	8"	569.64	8"	569.64	2280	0	200	200	200	
MH2	3683075.395	714848.646	571.72	8"	569.52	8"	569.52	2400	0	200	200	200	
MH3	3683072.895	714883.147	571.46	8"	569.38	8"	569.38	2280	75	200	200	200	
MH4	3683084.895	714883.147	570.83	8"	568.46	8"	568.46	2570	75	200	200	1070	
MH5	3683102.895	714883.147	569.11	8"	566.97	8"	566.97	2340	75	200	200	1620	
MH6	3683132.895	714883.147	567.57	8"	566.58	8"	566.58	1190	75	200	200	470	
MH7	3683155.709	714883.147	567.22	8"	566.10	8"	566.10	1320	75	200	200	580	
MH8	3683155.709	714894.147	567.22	8"	566.05	8"	566.05	1370	75	200	200	580	
MH9	3683182.401	714894.147	562.95	8"	562.08	8"	562.08	1070	75	200	200	350	
MH10	3683206.295	714894.147	562.70	8"	561.74	6"	562.03	1160	75	200	490	440	
MH11	3683206.295	714924.770	566.85	6"	565.80	8"	561.98	1250	75	200	200	480	
MH12	3683249.901	714894.147	562.29	8"	561.29	8"	561.57	1200	75	200	200	480	
MH13	3683287.901	714894.147	561.86	8"	560.85	8"	561.14	1210	75	200	200	490	
MH14	3683287.901	714872.547	561.96	16"	560.57	8"	560.76	1590	75	200	1050	390	
MH15	3683287.901	714835.547	562.07	16"	560.46	16"	561.53	1810	75	200	200	1270	
MH16	3683287.901	714797.547	562.20	16"	560.35	16"	560.35	2050	75	200	200	200	
MH17	3683283.901	714797.547	562.22	16"	560.33	16"	560.33	2090	75	200	200	910	
MH18	3683219.701	714873.547	562.58	16"	561.45	6"	561.69	1330	75	200	200	440	
MH19	3683219.701	714835.547	562.70	16"	561.34	16"	561.34	1560	75	200	200	660	
MH20	3683219.701	714801.547	562.80	16"	561.66	16"	561.24	1760	75	620	200	200	
MH21	3683219.701	714798.547	562.80	16"	561.67	6"	561.91	1330	75	200	200	440	
MH22	3683219.701	714761.547	562.92	16"	561.78	6"	562.02	1340	75	200	200	440	
MH23	3683249.701	714801.547	562.68	16"	561.15	16"	561.15	1730	75	200	200	200	
MH24	3683274.703	714801.547	562.58	6"	561.68	16"	561.07	1710	75	810	200	200	
MH25	3683283.901	714786.547	562.25	16"	561.00	16"	560.29	2160	75	910	200	200	
MH26	3683283.901	714761.547	562.32	8"	561.27	16"	561.08	1440	75	390	200	890	
MH27	3683309.787	714786.547	558.60	16"	556.75	16"	556.75	2050	75	200	200	1140	
MH29	3683460.245	714668.921	559.00	16"	558.04	16"	557.55	1650	75	690	200	200	
MH30	3683459.993	714674.916	558.44	16"	557.53	16"	557.53	1110	75	200	200	200	
MH37	3683309.781	714737.162	558.60	16"	556.89	16"	557.43	1910	75	200	740	200	
MH38	3683309.781	714744.162	558.60	16"	556.87	6"	557.43	1930	75	200	760	200	
MH39	3683313.787	714786.547	558.60	16"	556.74	16"	556.74	2060	75	200	200	200	
MH40	3683313.787	714796.547	558.60	16"	556.71	16"	556.71	2090	75	200	200	200	
MH43	3683318.287	714840.547	556.28	16"	555.10	16"	555.10	1380	75	200	200	200	
MH44	3683315.473	714870.547	556.38	16"	555.01	16"	555.01	1570	75	200	200	200	
MH45	3683315.473	714900.547	556.46	16"	554.92	16"	554.92	1740	75	200	200	200	
MH46	3683315.473	714930.547	556.55	16"	554.83	16"	554.83	1920	75	200	200	200	
MH47	3683317.473	714960.547	556.64	16"	554.74	16"	554.74	2100	75	200	200	200	
MH48	3683315.473	714989.269	556.75	16"	554.65	16"	554.65	2300	75	200	200	200	
MH49	3683345.473	714989.269	556.60	16"	554.56	16"	554.56	2240	75	200	200	200	
MH50	3683381.451	714989.269	556.45	16"	554.45	16"	554.45	2200	75	200	200	200	

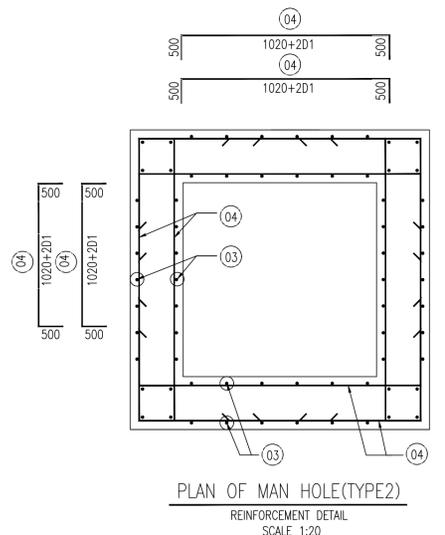
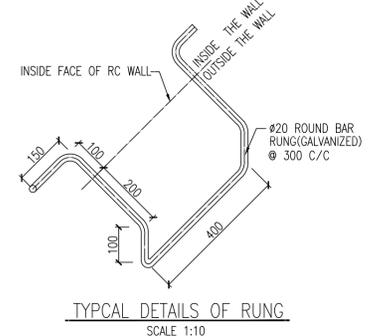
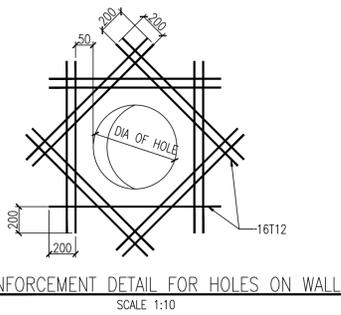
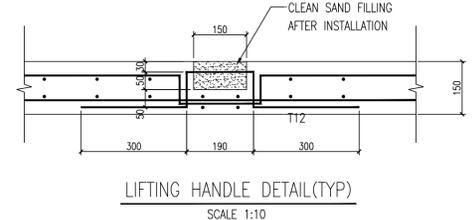
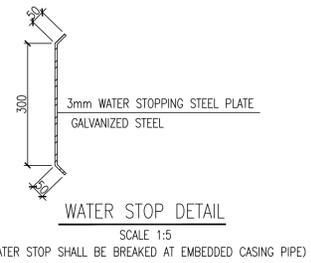
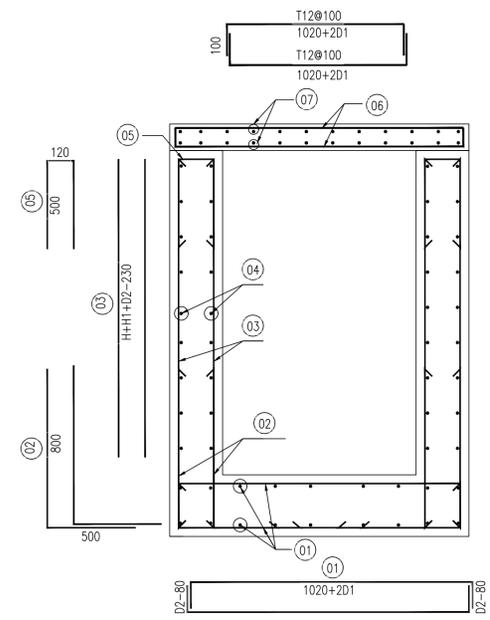
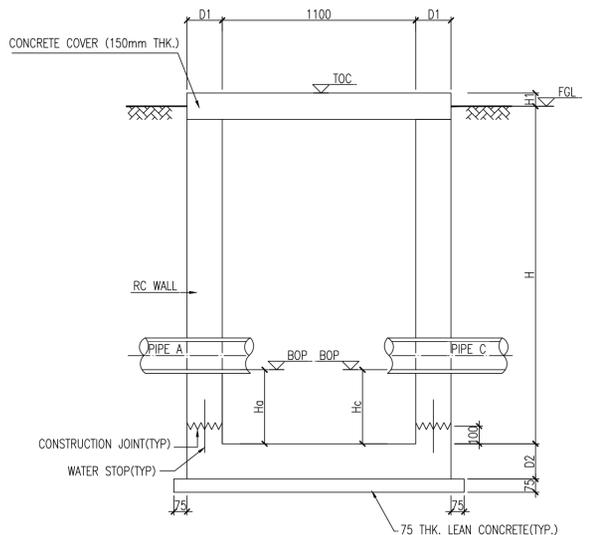
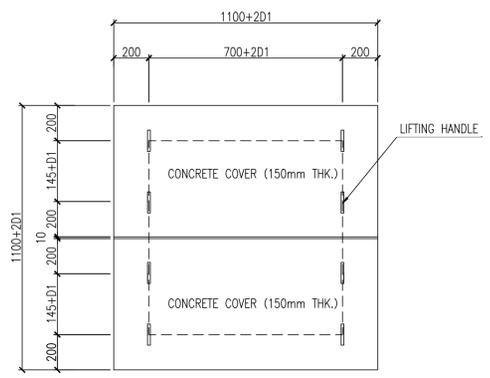
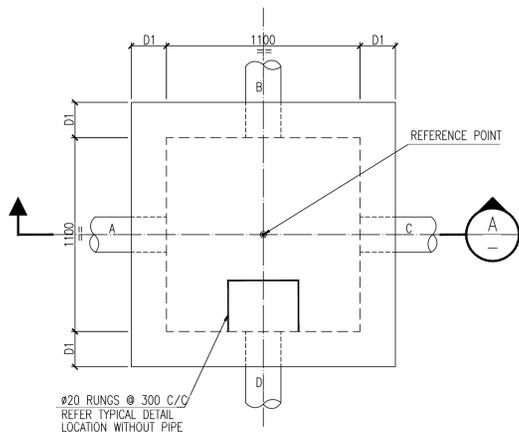
SCHEDULE OF MAN HOLE

NO	CENTER COORDINATES		FGL m	PIPE SIZE(INCH) & ELEVATION (INSIDE BOP)				DEPTH H(mm)	H1 (mm)	H _a (mm)	H _b (mm)	H _c (mm)	H _d (mm)
	N	E		PIPE A	BOP	PIPE B	BOP						
MH51	3683381.451	715004.269	556.50	16"	554.40	16"	554.40	2300	75	200	200	590	
MH52	3683027.701	714751.147	571.90	8"	570.89	6"	571.07	1210	0	200	380	200	
MH53	3683051.381	714751.147	571.80	8"	570.00	8"	570.80	2000	0	200	1000	200	
MH54	3683075.395	714751.147	571.72	8"	569.91	8"	569.91	2010	0	200	200	200	
MH55	3683075.395	714793.784	571.72	8"	569.74	8"	570.13	2180	0	200	590	200	
MH56	3683416.686	714936.846	556.16	6"	554.06	6"	554.06	2300	75	200	200	1630	
MH57	3683416.686	714924.147	556.12	6"	554.01	6"	554.01	2310	75	200	200	200	
MH58	3683442.766	714924.147	550.50	6"	549.80	6"	549.80	900	75	200	200	200	
MH59	3683435.280	714972.838	556.10	6"	555.17	8"	555.12	1180	0	250	200	200	
MH60	3683425.937	715007.269	556.25	8"	554.98	8"	554.98	1470	0	200	200	200	
MH61	3683381.451	715004.269	556.50	8"	554.80	8"	554.80	1900	75	200	200	200	
MH62	3683104.401	714793.784	571.60	de75	571.00	8"	570.25	1550	75	950	200	200	
MH64	3683131.149	714637.597	570.80	8"	568.35	6"	569.32	2650	75	200	1170	200	
MH65	3683165.251	714666.047	569.05	8"	568.11	8"	568.30	1140	75	200	200	390	
MH66	3683165.251	714694.147	568.80	8"	568.00	8"	566.47	2530	75	1730	200	1340	
MH67	3683142.813	714694.147	569.23	6"	567.75	8"	567.70	1730	75	250	200	200	
MH68	3683165.251	714716.347	567.10	8"	566.38	8"	566.38	920	75	200	200	200	
MH69	3683179.149	714716.347	563.55	8"	562.52	8"	562.70	1230	75	200	380	200	
MH70	3683214.149	714716.347	563.20	8"	562.22	8"	562.38	1180	75	200	360	200	
MH71	3683249.149	714716.347	562.80	8"	561.84	8"	562.08	1160	75	200	440	200	
MH72	3683288.001	714716.347	562.40	8"	561.46	8"	561.68	1140	75	200	420	200	
MH73	3683288.001	714761.547	562.30	8"	561.28	8"	561.28	1220	75	200	200	200	
MH74	3683161.149	714637.597	569.19	8"	568.16	8"	568.23	1160	75	200	200	200	
MH75	3683165.251	714654.047	569.15	8"	568.16	8"	568.16	1190	75	200	200	200	
MH76	3683161.701	714666.047	569.10	6"	568.37	8"	568.32	980	75	250	200	200	
W1	3683399.408	714983.019	556.35	6"	555.30	6"	555.30	1250	75	200	200	200	
W2	3683399.408	714969.547	556.32	6"	555.25	6"	555.25	1270	75	200	200	420	
W3	3683399.408	714961.647	556.30	6"	555.22	6"	555.22	1280	75	200	200	200	
W4	3683409.877	714961.647	556.25	6"	554.14	6"	555.18	2310	75	200	1240	200	
W5	3683326.811	714955.802	556.58	6"	555.95	6"	555.97	830	75	200	220	200	
W6	3683342.778	714955.802	556.51	6"	555.95	6"	555.90	810	75	250	200	200	
W7	3683357.301	714955.802	556.46	6"	555.86	6"	555.87	800	75	200	210	200	
W8	3683367.423	714955.802	556.40	6"	555.68	6"	555.68	920	75	200	200	350	
W9	3683386.473	714955.802	556.34	6"	555.62	6"	555.62	920	75	200	200	200	
W10	3683386.473	714941.447	556.30	6"	555.45	6"	555.58	1050	75	200	330	510	
W11	3683386.473	714895.802	556.16	6"	555.31	6"	555.31	1050	75	200	200	200	
W12	3683386.473	714865.802	556.07	6"	555.22	6"	555.22	1050	75	200	200	200	
W13	3683386.473	714836.812	556.00	6"	555.55	6"	555.13	1270	75	820	400	200	
W14	3683352.045	714924.147	556.40	6"	555.38	4"	555.84	1420	75	200	660	200	
W15	3683378.088	714924.147	556.28	6"	554.17	2"	555.85	2510	75	200	1680	1300	



GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
- YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
- INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
- FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
- FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
- PIPE CONNECTION REFER TO DWG NO. NGP-000-SCW-15.01-0059-00 FOR DETAILS.
- FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95%



- ### GENERAL NOTES
- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
 - MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
 - YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
 - INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
 - FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
 - FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
 - PIPE CONNECTION REFER TO DWG NO. NGP-000-SCW-15.01-0059-00 FOR DETAILS.
 - FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED AASHTO DRY DENSITY. THE SELECTED FILL MATERIAL SHOULD BE A-3/A-4 SOIL AND SHOULD BE TESTED BEFORE LAYING ON SITE.
 - PITS IN THIS SHEET ARE ONLY FOR PRODUCED WATER SYSTEM.

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
STANDARD DRAWING FOR PIPE CONNECTION	NGP-000-SCW-15.01-0059-00
SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0005-24

SCHEDULE OF MAN HOLE

NO	CENTER COORDINATES		FGL m	PIPE SIZE(INCH) & ELEVATION (INSIDE BOP)				DEPTH H(mm)	H1 (mm)	H _a (mm)	H _b (mm)	H _c (mm)	H _d (mm)	D1 (mm)	D2 (mm)	REINFORCEMENT BAR										
	N	E		PIPE A	BOP	PIPE B	BOP									PIPE C	BOP	PIPE D	BOP	01	02	03	04	05	06	07
MH28	3683474.929	714668.423	560.60	6"	559.60	16"	558.09	2710	75	1710			200	250	250	T12@120	T12@120	T12@120	T12@120	T12@120	T12@100	T12@200				
MH31	3683419.488	714673.006	560.28		16"	557.41	16"	557.41	3070	75	200		200	250	250	T12@120	T12@120	T12@120	T12@120	T12@120	T12@100	T12@200				
MH32	3683384.348	714671.351	561.14	6"	559.88	16"	557.30	4040	75	2780	200		200	300	300	T12@120	T12@120	T12@120	T12@120	T12@120	T12@100	T12@200				
MH33	3683370.470	714670.697	562.16	6"	560.43	16"	557.26	5100	75	3370	200		200	300	300	T12@120	T12@120	T12@120	T12@120	T12@120	T12@100	T12@200				
MH34	3683340.481	714671.509	562.81		16"	557.17	16"	557.17	5840	75	200		200	300	300	T12@120	T12@120	T12@120	T12@120	T12@120	T12@100	T12@200				
MH35	3683309.781	714672.162	563.01		16"	557.08	16"	557.08	6130	75	200	200	2120	300	300	T12@120	T12@120	T12@120	T12@120	T12@120	T12@100	T12@200				
MH36	3683309.781	714702.162	562.04	16"	556.99	16"	556.99	5250	75	200	200		200	300	300	T12@120	T12@120	T12@120	T12@120	T12@100	T12@200					
MH41	3683313.787	714800.547	558.60	16"	556.71	16"	555.91	2890	75	1000	200		250	250	250	T12@120	T12@120	T12@120	T12@120	T12@120	T12@100	T12@200				
MH42	3683318.287	714800.547	558.60	16"	556.71	16"	555.22	3580	75	1690	200		250	250	250	T12@120	T12@120	T12@120	T12@120	T12@120	T12@100	T12@200				

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang Ziqiang	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	08/04/2016
A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016

CLIENT
OIL & GAS DEVELOPMENT COMPANY LTD.
 60/61 HOUSE TOWER B, FIRST FLOOR F-6/6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: +92-01-2629353, PHONE: +92-01-2629859

CONSULTANT
Zishan Engineers (Pvt.) Ltd.
 An ISO 9001:2008 certified company
 47/F Block 6, PECHS, Karachi-Pakistan
 Tel: (92-91) 34393045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

CONTRACTOR
HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED
 PROJECT NO. NASHPA 1247

PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015
 DRAWING NO. NGP-000-SCW-15.01-0009-00

DRAWING TITLE: STANDARD DETAIL OF VALVE PIT
 REV. SCALE SHEET
 01 AS SHOWN 6 OF 18

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
- YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
- INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
- FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
- FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
- PIPE CONNECTION REFER TO DWG NO. NGP-000-SCW-15.01-0059-00 FOR DETAILS.
- FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED AASHTO DRY DENSITY. THE SELECTED FILL MATERIAL SHOULD BE A-3/A-4 SOIL AND SHOULD BE TESTED BEFORE LAYING ON SITE.
- PITS IN THIS SHEET ARE ONLY FOR PRODUCED WATER SYSTEM.

LEGEND

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
STANDARD DRAWING FOR PIPE CONNECTION	NGP-000-SCW-15.01-0059-00
SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0005-24

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	08/04/2016
A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016

CLIENT

OIL & GAS DEVELOPMENT COMPANY LTD.
 05/01 HOUSE TOWER-B, FIRST FLOOR F-6/6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: +92-01-2823053, PHONE: +92-01-2823859

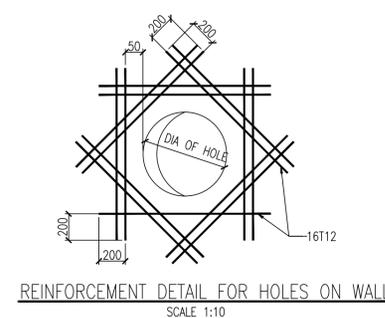
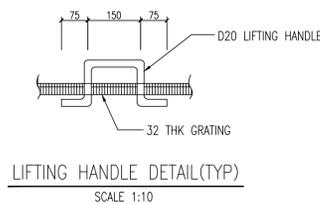
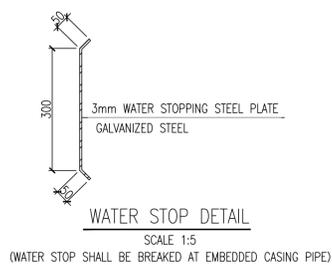
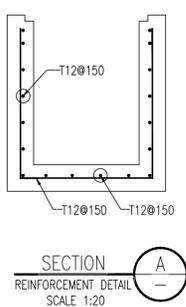
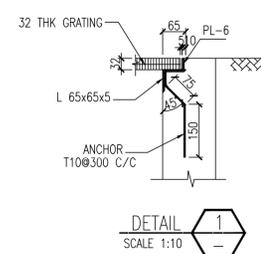
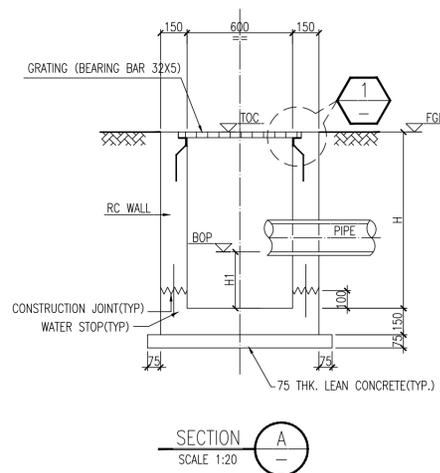
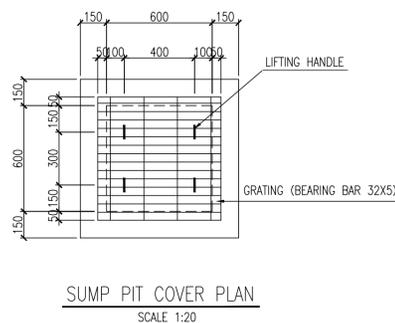
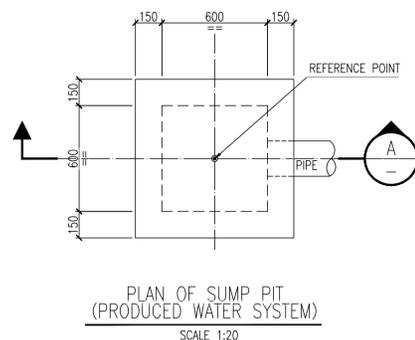
CONSULTANT

Zishan Engineers (Pvt.) Ltd.
 An ISO 9001:2008 certified company
 47/F Block 6, PECHS, Karachi-Pakistan
 Tel: (92-91) 34393045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

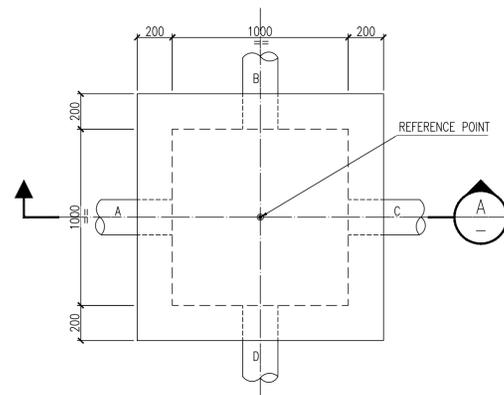
CONTRACTOR
HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED
 PROJECT NO. NASHPA 1247

PROJECT TITLE: **NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015**
 DRAWING NO. NGP-000-SCW-15.01-0009-00

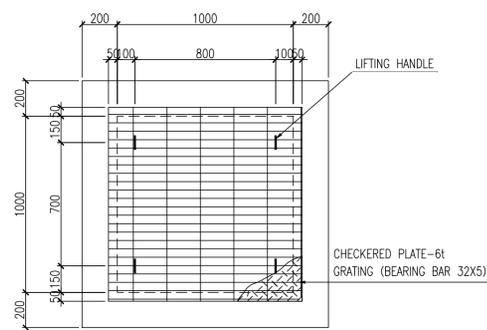
DRAWING TITLE: **STANDARD DETAIL OF VALVE PIT**
 REV. SCALE SHEET
 01 AS SHOWN 7 OF 18



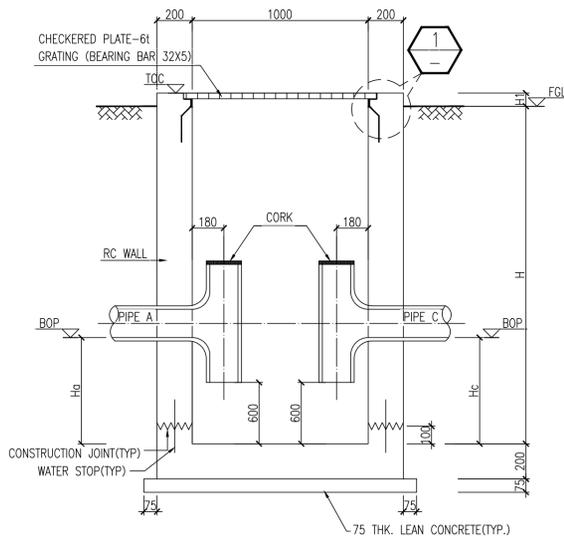
SCHEDULE OF SUMP PIT					
NO	FGL m	PIPE SIZE (INCH)	ELEVATION (BOP)	DEPTH H(mm)	H1 (mm)
SP1	571.90	6"	571.20	1000	300
SP2	571.72	6"	571.27	750	300
SP3	562.47	6"	561.77	1000	300
SP4	562.58	6"	561.88	1000	300
SP5	562.69	6"	561.99	1000	300
SP6	562.80	6"	562.10	1000	300
SP7	562.24	6"	561.54	1000	300
SP8	562.35	6"	561.65	1000	300
SP9	562.46	6"	561.76	1000	300
SP10	562.57	6"	561.87	1000	300
SP11	555.94	6"	555.24	1000	300
SP12	570.10	6"	569.47	930	300
SP13	569.15	6"	568.45	1000	300
SP14	569.18	6"	568.48	1000	300



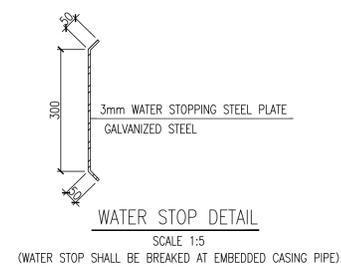
PLAN OF TRAP WELL
(PRODUCED WATER SYSTEM)
SCALE 1:20



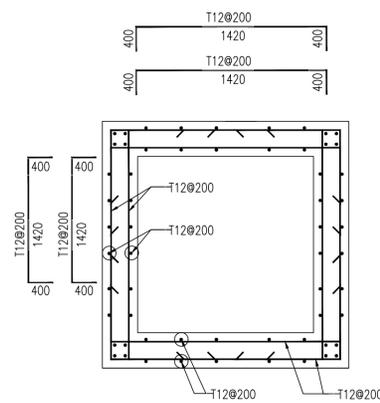
TRAP WELL COVER PLAN
SCALE 1:20



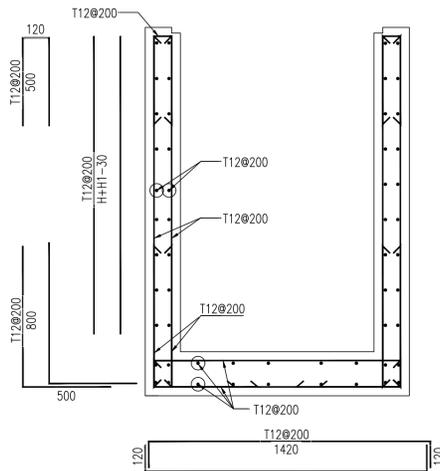
SECTION A
SCALE 1:20



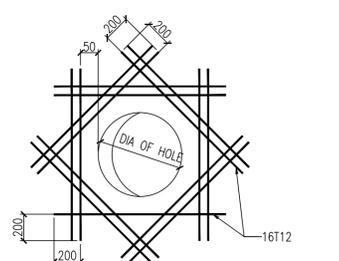
WATER STOP DETAIL
SCALE 1:5
(WATER STOP SHALL BE BROKEN AT EMBEDDED CASING PIPE)



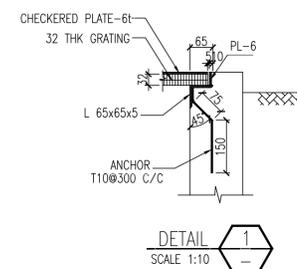
PLAN OF TRAP WELL
REINFORCEMENT DETAIL
SCALE 1:20



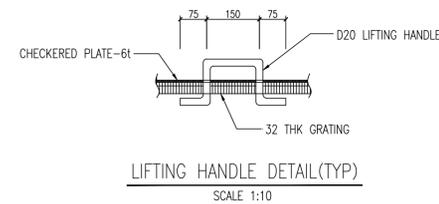
SECTION A
REINFORCEMENT DETAIL
SCALE 1:20



REINFORCEMENT DETAIL FOR HOLES ON WALL
SCALE 1:10



DETAIL 1
SCALE 1:10



LIFTING HANDLE DETAIL(TYP)
SCALE 1:10

NO	FCL m	PIPE SIZE(INCH) & ELEVATION (INSIDE BOP)								DEPTH H(mm)	H1 (mm)	H _a (mm)	H _b (mm)	H _c (mm)	H _d (mm)
		PIPE A		PIPE B		PIPE C		PIPE D							
		PIPE	BOP	PIPE	BOP	PIPE	BOP	PIPE	BOP						
TW1	571.90	6"	571.14	6"	571.20	6"	571.19	6"	571.25	1610	0	850	900		
TW2	571.75	6"	571.14	6"	571.20	6"	571.19	6"	571.25	1400	0	850	900		
TW3	562.60	6"	561.75	6"	561.70	6"	561.70	6"	561.70	1750	75	900	850		
TW4	562.71	6"	561.86	6"	561.81	6"	561.81	6"	561.81	1750	75	900	850		
TW5	562.82	6"	561.97	6"	561.92	6"	561.92	6"	561.92	1750	75	900	850		
TW6	562.93	6"	562.08	6"	562.03	6"	562.03	6"	562.03	1750	75	900	850		
TW7	562.37	6"	561.52	6"	561.47	6"	561.47	6"	561.47	1750	75	900	850		
TW8	562.48	6"	561.63	6"	561.58	6"	561.58	6"	561.58	1750	75	900	850		
TW9	562.59	6"	561.74	6"	561.69	6"	561.69	6"	561.69	1750	75	900	850		
TW10	562.70	6"	561.85	6"	561.80	6"	561.80	6"	561.80	1750	75	900	850		
TW11	556.10	6"	555.23	6"	555.18	6"	555.18	6"	555.18	1770	0	900	850		
TW12	570.20	6"	569.44	6"	569.46	6"	569.46	6"	569.46	1640	75	850	900		
TW13	569.15	6"	568.44	6"	568.39	6"	568.39	6"	568.39	1610	75	900	850		
TW14	569.32	6"	568.46	6"	567.80	6"	567.80	6"	567.80	1750	75	1510	850		

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
- YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
- INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
- FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
- FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
- PIPE CONNECTION REFER TO DWG NO. NGP-000-SCW-15.01-0059-00 FOR DETAILS.
- FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED AASHTO DRY DENSITY. THE SELECTED FILL MATERIAL SHOULD BE A-3/A-4 SOIL AND SHOULD BE TESTED BEFORE LAYING ON SITE.
- PITS IN THIS SHEET ARE ONLY FOR PRODUCED WATER SYSTEM.

LEGEND

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
STANDARD DRAWING FOR PIPE CONNECTION	NGP-000-SCW-15.01-0059-00
SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0005-24

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	08/04/2016
A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016

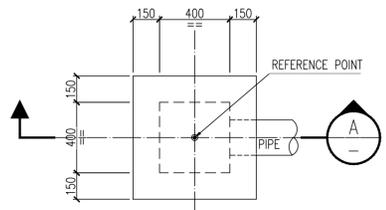
CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**
 ODGCL HOUSE TOWER B, FIRST FLOOR F/6/B, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: +92 91 262953, PHONE: +92 91 4269859

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
 An ISO 9001:2008 certified company
 47/F Block 6, PECHS, Karachi-Pakistan
 Tel: (92-91) 34393045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

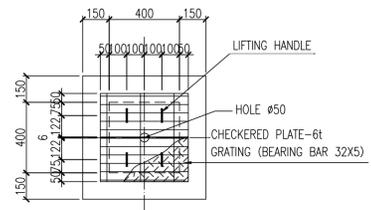
CONTRACTOR: **HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED** PROJECT NO. NASHPA 1247

PROJECT TITLE: **NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015** DRAWING NO. NGP-000-SCW-15.01-0009-00

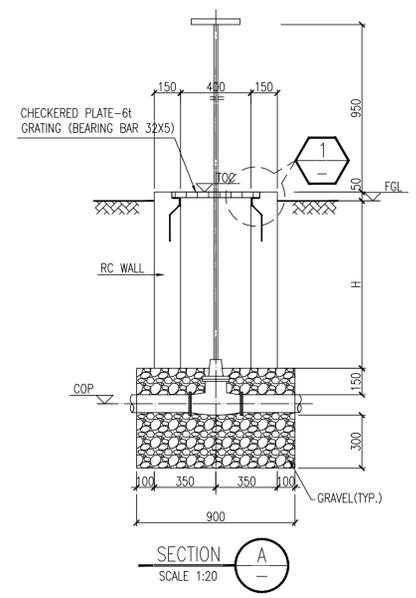
DRAWING TITLE: **STANDARD DETAIL OF VALVE PIT** REV. SCALE SHEET 01 AS SHOWN 8 OF 18



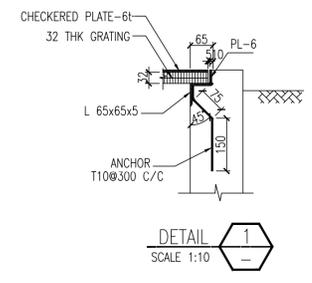
PLAN OF VALVE PIT
(PRODUCED WATER SYSTEM)
SCALE 1:20



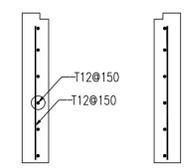
VALVE PIT COVER PLAN
SCALE 1:20



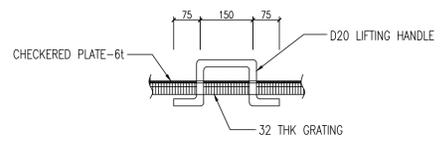
SECTION A
SCALE 1:20



DETAIL 1
SCALE 1:10



SECTION A
REINFORCEMENT DETAIL
SCALE 1:20



LIFTING HANDLE DETAIL (TYP)
SCALE 1:10

SCHEDULE OF VALVE PIT				
NO	FGL m	PIPE SIZE (INCH)	ELEVATION (COP)	DEPTH H(mm)
VP1	571.90	6"	571.28	390
VP2	571.75	6"	571.35	170
VP3	562.60	6"	561.84	530
VP4	562.71	6"	561.95	530
VP5	562.82	6"	562.06	530
VP6	562.93	6"	562.17	530
VP7	562.37	6"	561.61	530
VP8	562.48	6"	561.72	530
VP9	562.59	6"	561.83	530
VP10	562.70	6"	561.94	530
VP11	558.60	6"	556.90	1350
VP12	558.60	6"	556.90	1350
VP13	550.50	6"	549.88	390
VP14	556.10	6"	555.30	570
VP15	570.20	6"	569.55	420
VP16	569.15	6"	568.53	390
VP17	569.20	6"	568.55	420

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
- YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
- INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
- FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
- FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
- PIPE CONNECTION REFER TO DWG NO. NGP-000-SCW-15.01-0059-00 FOR DETAILS.
- FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED AASHTO DRY DENSITY. THE SELECTED FILL MATERIAL SHOULD BE A-3/A-4 SOIL AND SHOULD BE TESTED BEFORE LAYING ON SITE.
- PITS IN THIS SHEET ARE ONLY FOR PRODUCED WATER SYSTEM.

LEGEND

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
STANDARD DRAWING FOR PIPE CONNECTION	NGP-000-SCW-15.01-0059-00
SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0005-24

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	08/04/2016
A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016

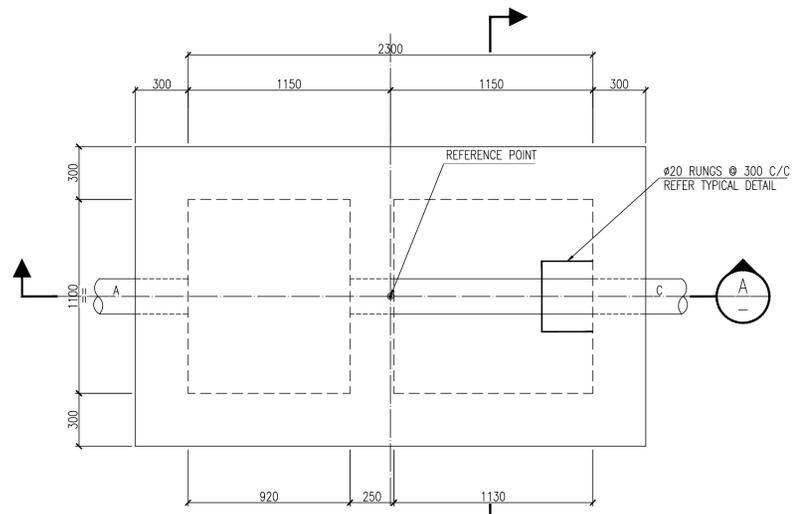
CLIENT
OIL & GAS DEVELOPMENT COMPANY LTD.
 02/04 HOUSE TOWER-B, FIRST FLOOR F-6/6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: +92 01 2620353, PHONE: +92 01 2620353

CONSULTANT
Zishan Engineers (Pvt.) Ltd.
 An ISO 9001:2008 certified company
 47/F Block 6, PECHS, Karachi-Pakistan
 Tel: (92-91) 34393045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

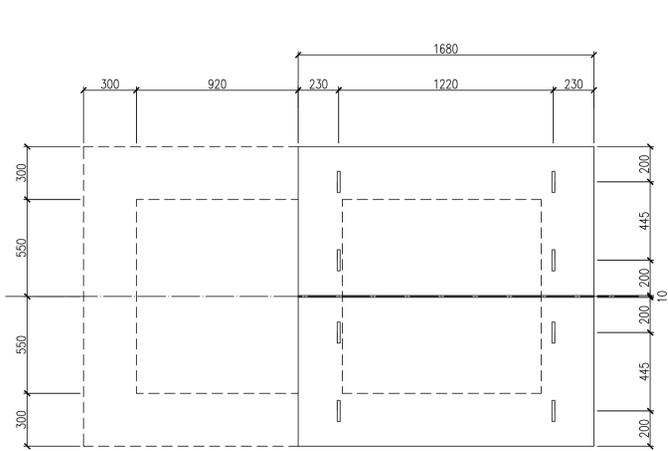
CONTRACTOR
HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED
 PROJECT NO. NASHPA 1247

PROJECT TITLE: **NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015**
 DRAWING NO. NGP-000-SCW-15.01-0009-00

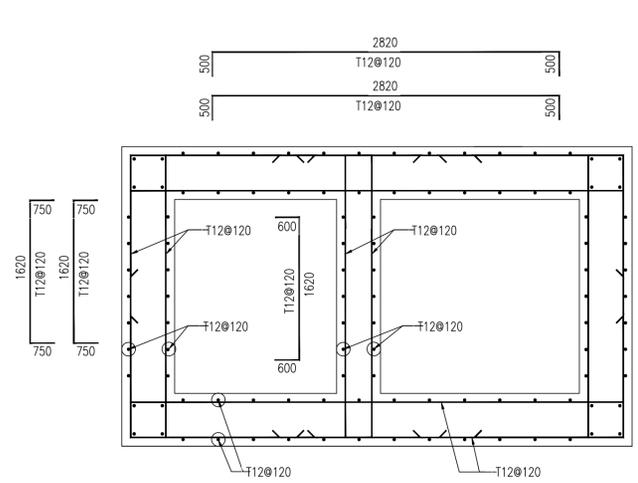
DRAWING TITLE: **STANDARD DETAIL OF VALVE PIT**
 REV. 01 SCALE AS SHOWN SHEET 9 OF 18



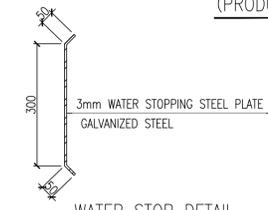
PLAN OF DROP WELL
(PRODUCED WATER SYSTEM)
SCALE 1:20



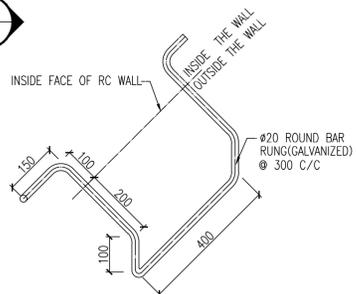
DROP WELL COVER PLAN
SCALE 1:20



DROP WELL COVER PLAN
REINFORCEMENT DETAIL
SCALE 1:20

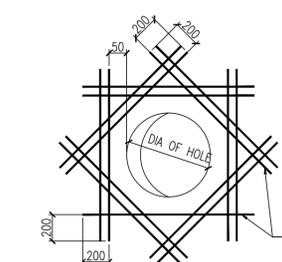


WATER STOP DETAIL
SCALE 1:5
(WATER STOP SHALL BE BROKEN AT EMBEDDED CASING PIPE)

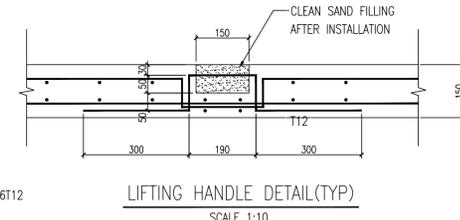


TYPICAL DETAILS OF RUNG
SCALE 1:10

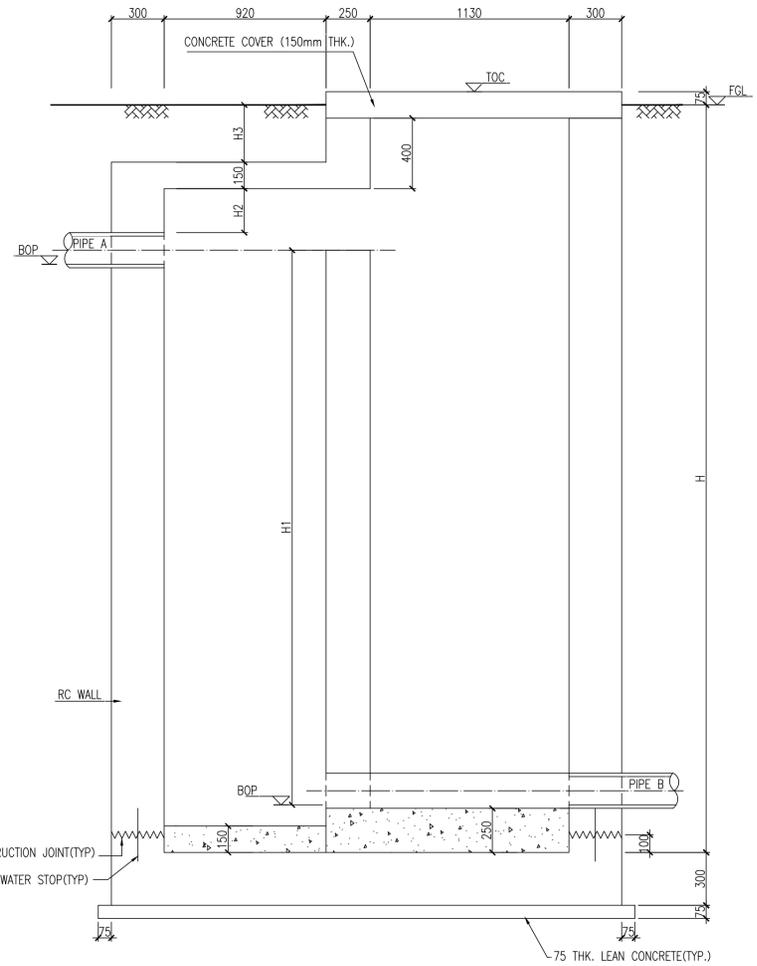
NO	CENTER COORDINATES		FGL m	PIPE SIZE(INCH) & ELEVATION (INSIDE BOP)				DEPTH H (mm)	H1 (mm)	H2 (mm)	H3 (mm)
	N	E		A(INLET)		B(OUTLET)					
				PIPE	BOP	PIPE	BOP				
DW1	3683165.786	714894.147	567.10	8"	566.01	8"	562.29	5060	3821	404	325
DW2	3683206.295	714904.770	566.85	6"	565.74	6"	562.06	5040	3757	474	325
DW3	3683287.601	714786.547	562.22	16"	560.28	16"	557.75	4720	2724	1068	325
DW4	3683419.386	714924.147	556.10	6"	554.00	6"	549.90	6450	4177	1464	325
DW5	3683168.786	714716.347	567.03	8"	566.37	8"	562.74	4540	3731	242	57



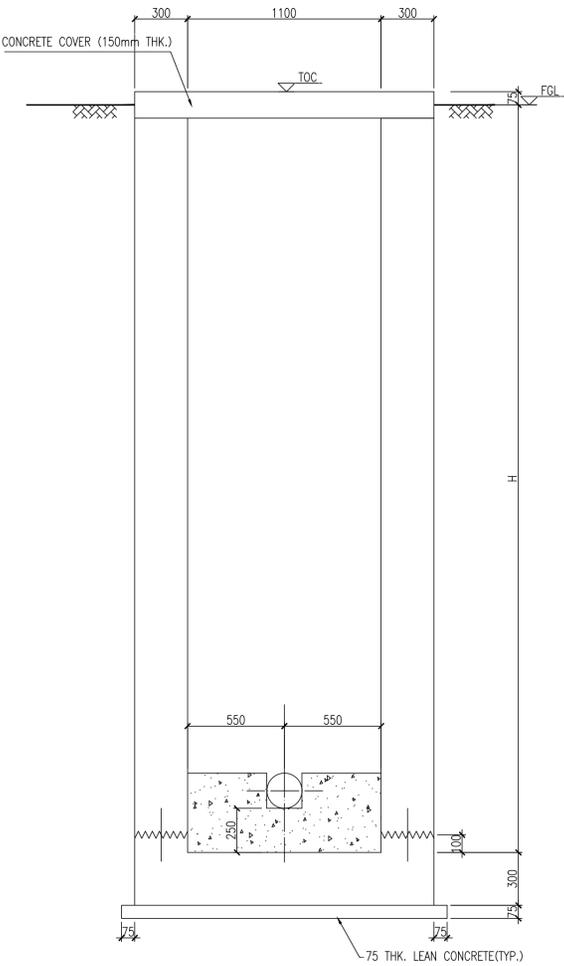
REINFORCEMENT DETAIL FOR HOLES ON WALL
SCALE 1:10



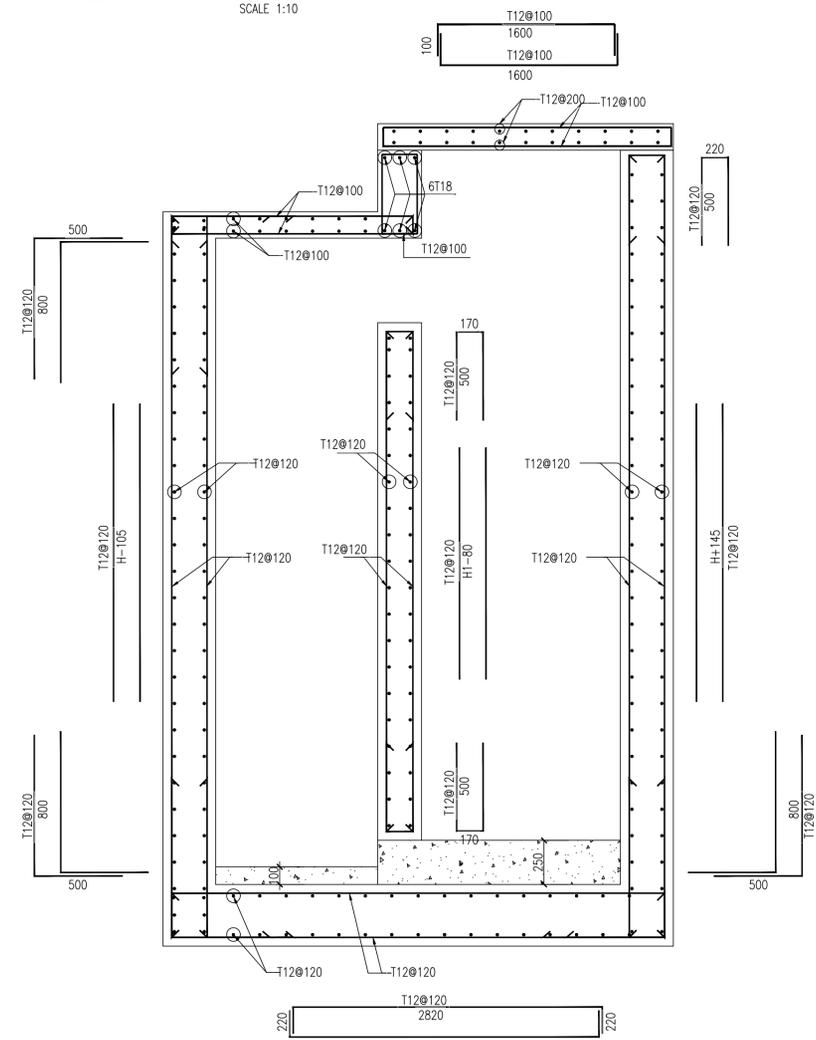
LIFTING HANDLE DETAIL(TYP)
SCALE 1:10



SECTION A
SCALE 1:20



SECTION B
SCALE 1:20



SECTION A
REINFORCEMENT DETAIL
SCALE 1:20

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
- YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
- INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
- FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
- FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
- PIPE CONNECTION REFER TO DWG NO. NGP-000-SCW-15.01-0059-00 FOR DETAILS.
- FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED AASHTO DRY DENSITY. THE SELECTED FILL MATERIAL SHOULD BE A-3/A-4 SOIL AND SHOULD BE TESTED BEFORE LAYING ON SITE.
- PITS IN THIS SHEET ARE ONLY FOR PRODUCED WATER SYSTEM.

LEGEND

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
STANDARD DRAWING FOR PIPE CONNECTION	NGP-000-SCW-15.01-0059-00
SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0005-24

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	08/04/2016
A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016

CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**
ODDCL HOUSE TOWER-B, FIRST FLOOR PH-6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: +92-011-2623953, PHONE: +92-011-9209859

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
An ISO 9001-2008 certified company
 47/F Block 6, PECHS, Karachi-Pakistan
 Tel: (92-91) 34393045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

CONTRACTOR: **HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED**

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

DRAWING TITLE: **STANDARD DETAIL OF VALVE PIT**

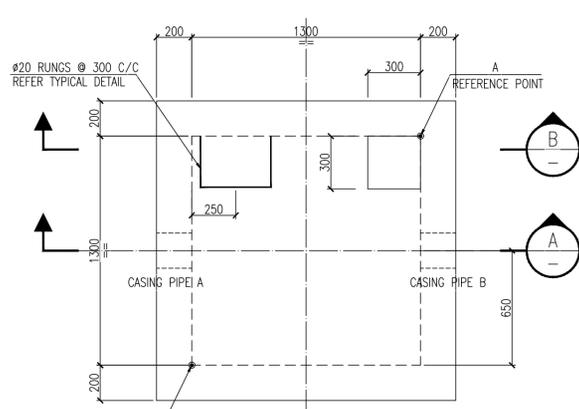
PROJECT NO. **NASHPA 1247**

DRAWING NO. **NGP-000-SCW-15.01-0009-00**

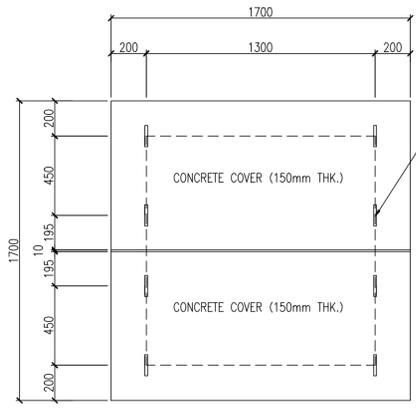
REV. **01** SCALE **AS SHOWN** SHEET **10 OF 18**

GENERAL NOTES

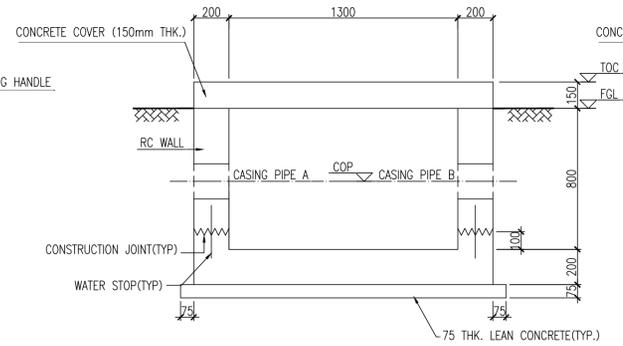
- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
- YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
- INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
- FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
- FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
- CASING PIPE REFER TO PIPE SLEEVE THRU WALL DETAIL IN DWG NO. NGP-008-PIP-15.01-0003-00.
- FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS PER FOLLOWING REQUIREMENTS: THE FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95% OF MODIFIED AASHTO DRY DENSITY. THE SELECTED FILL MATERIAL SHOULD BE A-3/A-4 SOIL AND SHOULD BE TESTED BEFORE LAYING ON SITE.
- PITS IN THIS SHEET ARE ONLY FOR PRODUCED WATER SYSTEM.



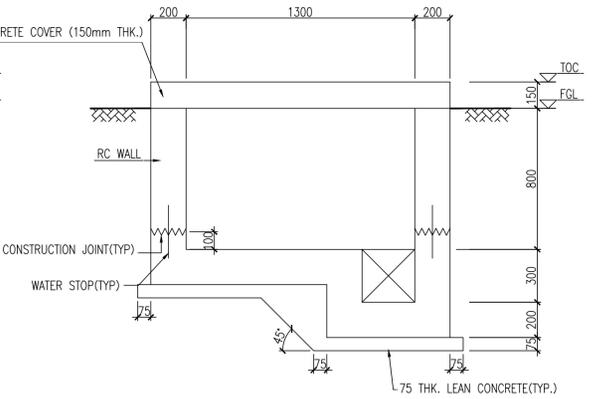
PLAN OF VALVE PIT
(PRODUCED WATER SYSTEM)
SCALE 1:20



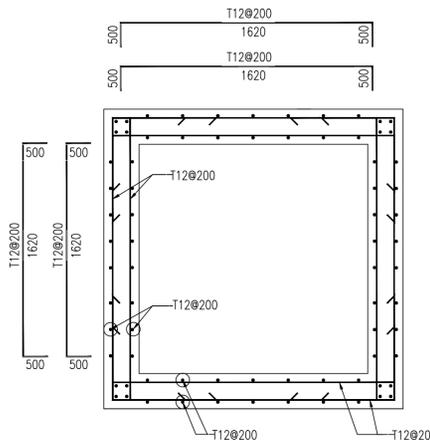
VALVE PIT COVER PLAN
SCALE 1:20



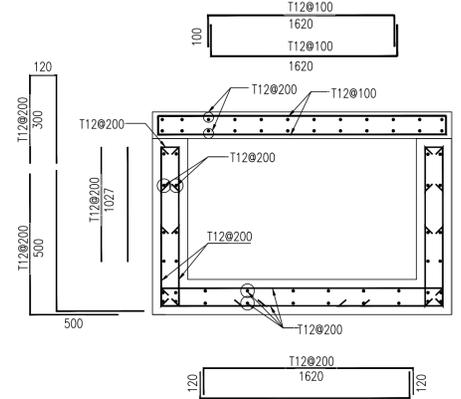
SECTION A
SCALE 1:20



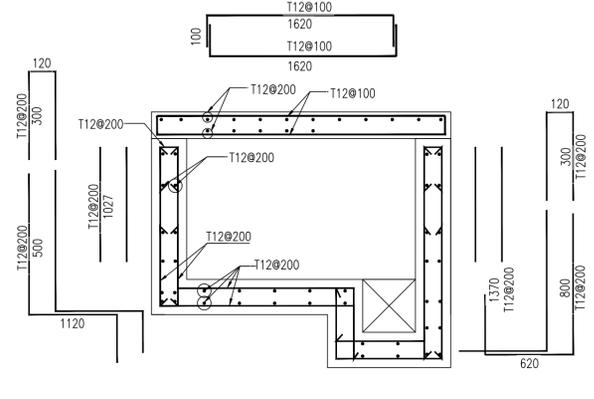
SECTION B
SCALE 1:20



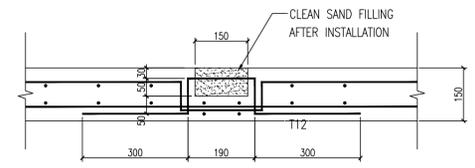
PLAN OF VALVE PIT(TYP-3)
REINFORCEMENT DETAIL
SCALE 1:20



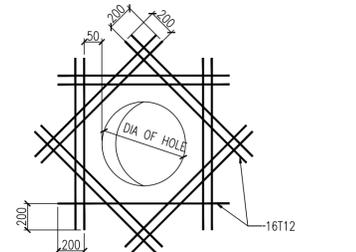
SECTION A
REINFORCEMENT DETAIL
SCALE 1:20



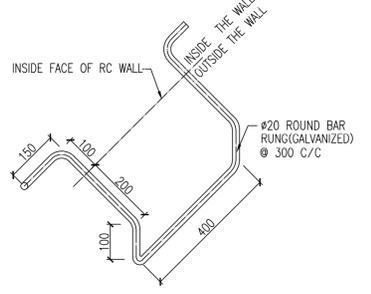
SECTION B
REINFORCEMENT DETAIL
SCALE 1:20



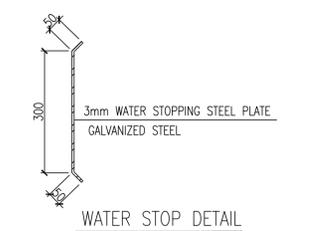
LIFTING HANDLE DETAIL(TYP)
SCALE 1:10



REINFORCEMENT DETAIL FOR HOLES ON WALL
SCALE 1:10



TYPICAL DETAILS OF RUNG
SCALE 1:10



WATER STOP DETAIL
SCALE 1:5
(WATER STOP SHALL BE BROKEN AT EMBEDDED CASING PIPE)

LEGEND

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
STANDARD DRAWING FOR PIPE CONNECTION	NGP-000-SCW-15.01-0059-00
KEY PLAN FOR WATER TREATMENT AREA	NGP-008-PIP-15.01-0002-00

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	08/04/2016
A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016

CLIENT
OIL&GAS DEVELOPMENT COMPANY LTD.
ODDCL HOUSE TOWER-B, FIRST FLOOR F-6/6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
FAX: +92 91 262953, PHONE: +92 91 4209899

CONSULTANT
Zishan Engineers (Pvt.) Ltd.
An ISO 9001:2008 certified company
47/F Block 6, PECHS, Karachi-Pakistan
Tel: (92-91) 34393045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

CONTRACTOR
HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED
PROJECT NO. NASHPA 1247

PROJECT TITLE: **NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015**
DRAWING NO. NGP-000-SCW-15.01-0009-00

DRAWING TITLE: **STANDARD DETAIL OF VALVE PIT**
REV. SCALE SHEET
01 AS SHOWN 11 OF 18

SCHEDULE OF VALVE PIT									
NO	DIAGONAL COORDINATES				FGL m	CASING PIPE SIZE(mm) & ELEVATION (INSIDE COP)			
	A	N	B	N		A		B	
	E	E	E	E		CASING PIPE	COP	CASING PIPE	COP
VP-W1	N=3683347.695 E=714923.497	N=3683346.395 E=714924.797	556.40	556.40	556.40	Ø168.3x7.11	555.90	Ø168.3x7.11	555.90