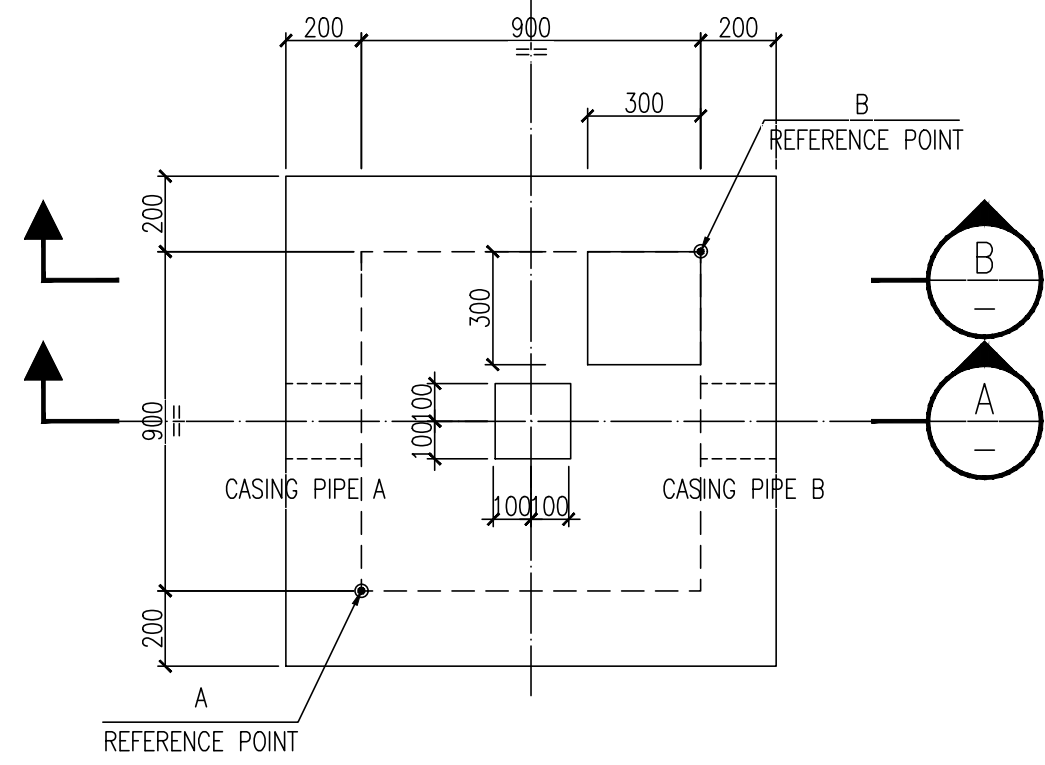
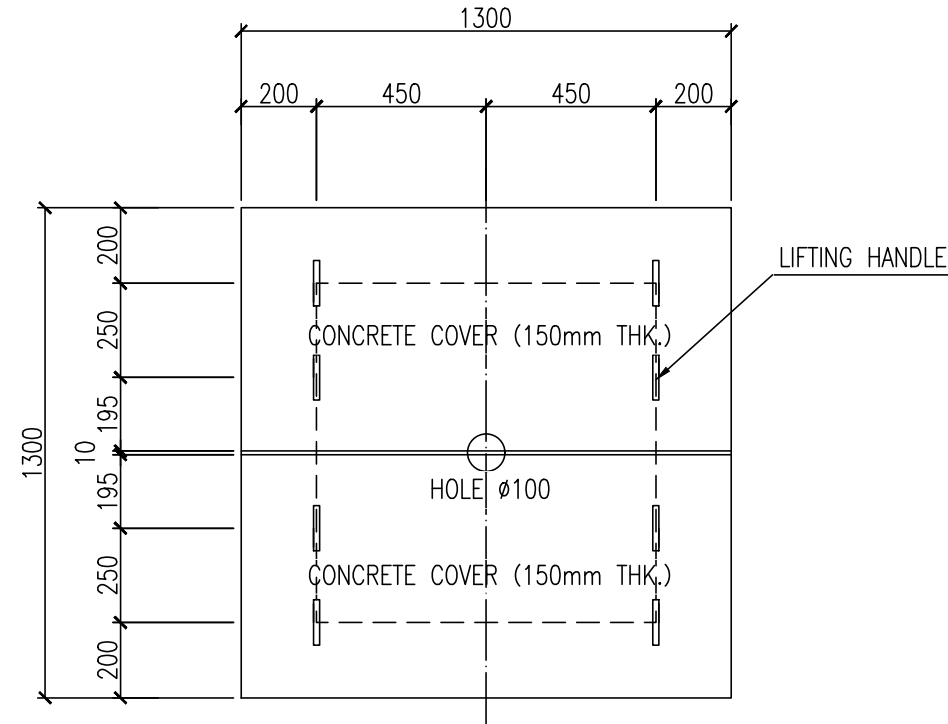


GENERAL NOTES

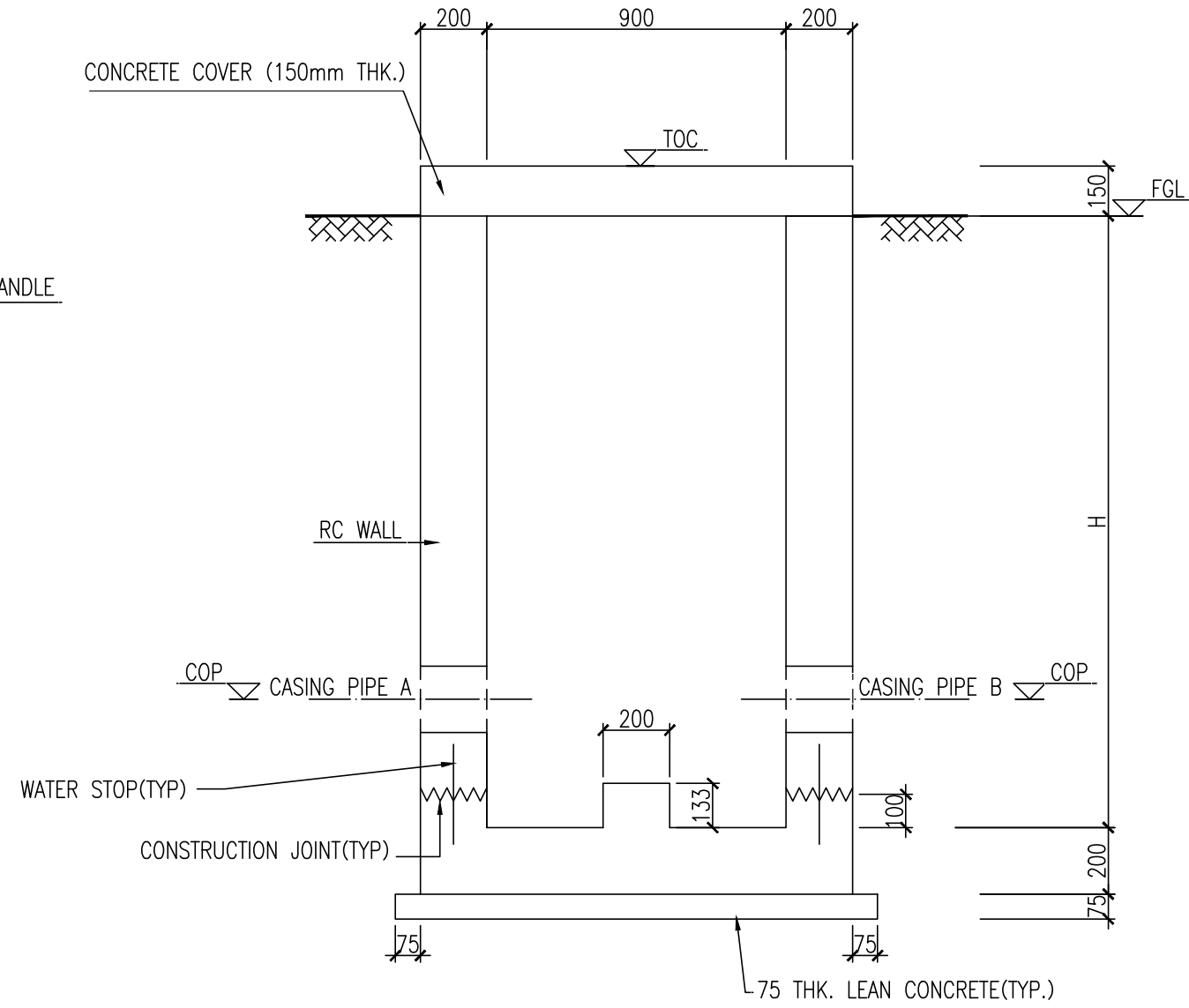
1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
- STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
3. YIELD STRENGTH OF REINFORCEMENT BAR
- $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
4. INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
5. FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
6. FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
7. CASING PIPE REFER TO PIPE SLEEVE THRU WALL DETAIL IN DWG NO. NGP-008-PIP-15.01-0003-00.
8. 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.
9. PITS IN THIS SHEET ARE ONLY FOR FIRE WATER SYSTEM.



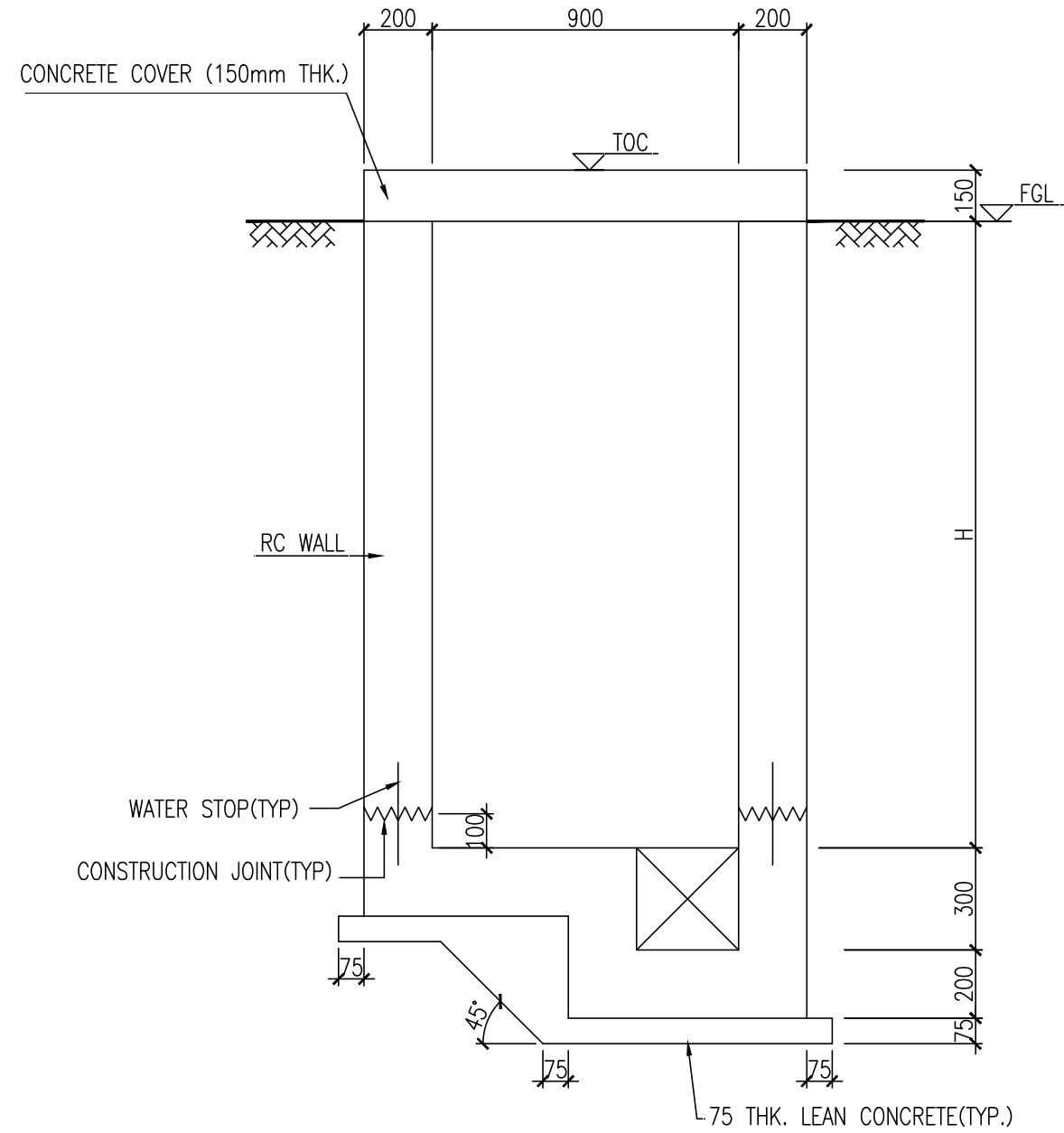
PLAN OF VALVE PIT(TYP-1)
(FOR FIRE WATER SYSTEM)
SCALE 1:20



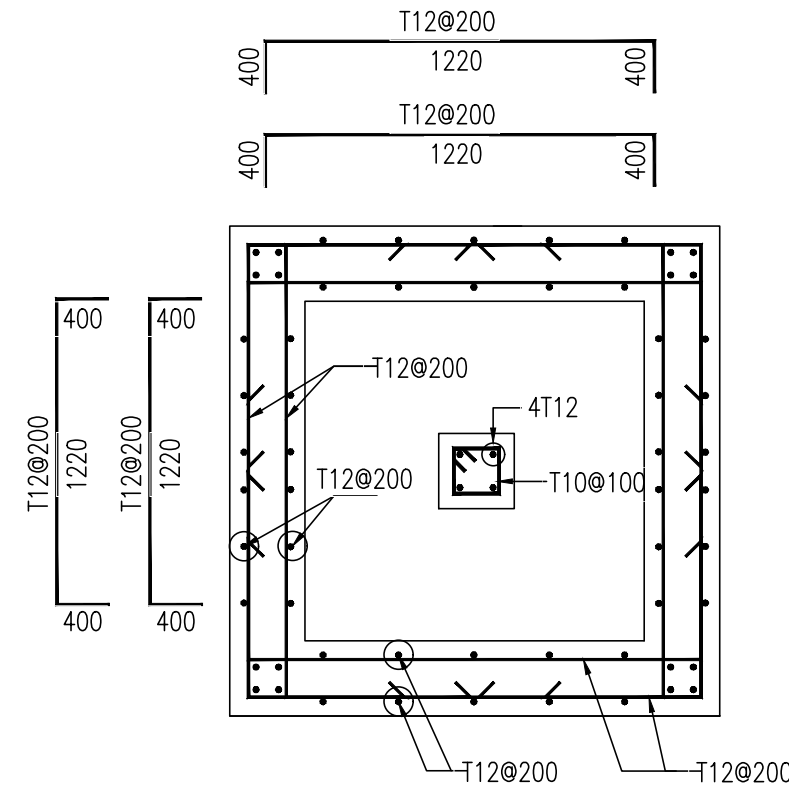
VALVE PIT COVER PLAN(TYP-1)
SCALE 1:20



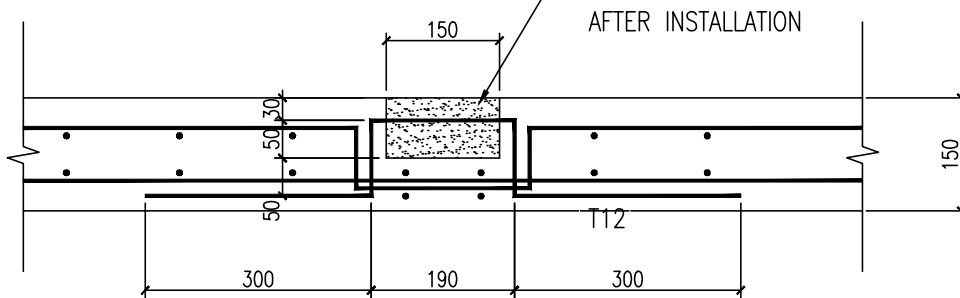
SECTION A
SCALE 1:20



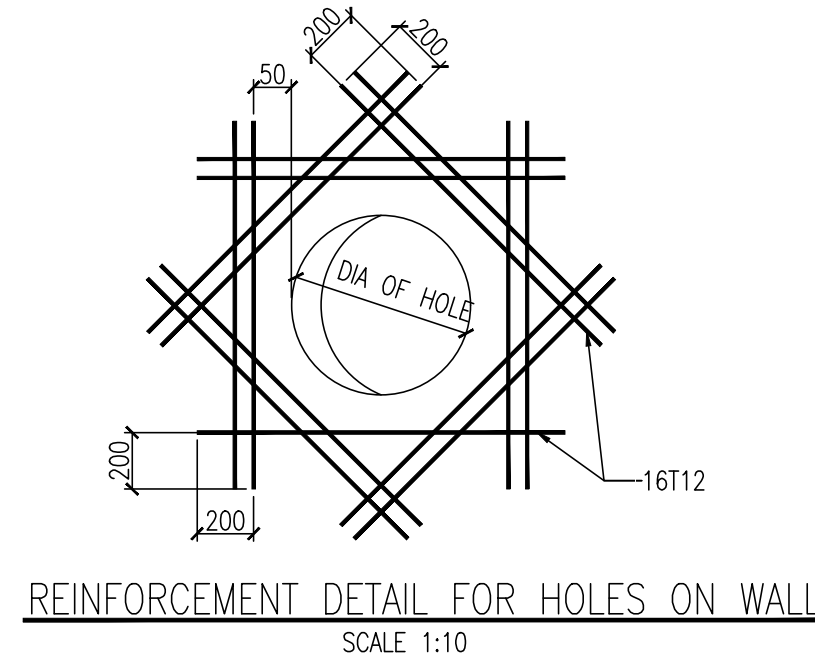
SECTION B
SCALE 1:20



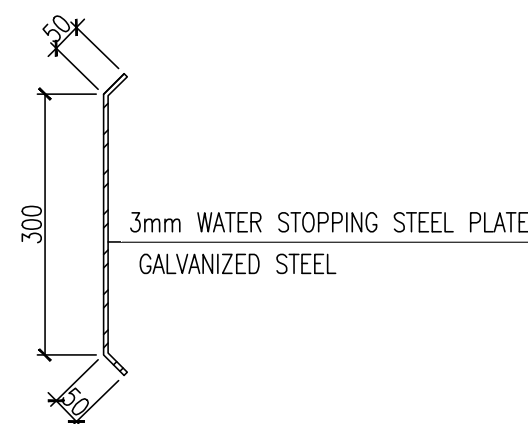
PLAN OF VALVE PIT(TYP-1)
REINFORCEMENT DETAIL
SCALE 1:20



LIFTING HANDLE DETAIL(TYP)
SCALE 1:10



REINFORCEMENT DETAIL FOR HOLES ON WALL
SCALE 1:10



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

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		N	E	CASING PIPE	COP			CASING PIPE	COP	A	N		E	B	N	E			CASING PIPE	COP	CASING PIPE	COP		A	N	E	B	
VP-1	N=3683340.314 E=715004.925				559.84	323.8x10.31 558.47 323.8x10.31 558.47				1800	VP-9	N=3683373.053 E=714674.579				561.90	323.8x10.31 560.66 323.8x10.31 560.66				1670	VP-17	N=3683137.904 E=714716.041				569.23	323.8x10.31 568.30 323.8x10.31 568.30				1360
	N=3683339.272 E=715005.055					N=3683372.169 E=714675.494						N=3683138.788 E=714716.957																				
VP-2	N=3683409.417 E=714965.784				556.27	323.8x10.31 555.31 323.8x10.31 555.31				1390	VP-10	N=3683291.987 E=714692.842				563.00	323.8x10.31 562.15 323.8x10.31 562.15				1280	VP-18	N=3683139.591 E=714635.140				569.63	323.8x10.31 568.78 323.8x10.31 568.78				1280
	N=3683410.053 E=714966.886					N=3683291.087 E=714691.942						N=3683140.476 E=714636.056																				
VP-3	N=3683529.496 E=714988.674				555.35	323.8x10.31 553.76 323.8x10.31 553.76				2020	VP-11	N=3683427.345 E=714818.798				556.31	323.8x10.31 555.38 323.8x10.31 555.38				1360	VP-19	N=3683084.047 E=714799.788				571.67	323.8x10.31 570.20 323.8x10.31 570.20				1900
	N=3683530.170 E=714989.754					N=3683426.445 E=714819.698						N=3683084.947 E=714800.639																				
VP-4	N=3683543.390 E=714776.032				550.85	323.8x10.31 550.00 323.8x10.31 550.00				1280	VP-12	N=3683322.253 E=714818.798				561.09	323.8x10.31 559.72 323.8x10.31 559.72				1800	VP-20	N=3683096.643 E=714893.640				569.79	323.8x10.31 568.42 323.8x10.31 568.42				1800
	N=3683544.026 E=714777.134					N=3683321.353 E=714819.698						N=3683095.743 E=714894.540																				
VP-5	N=3683485.817 E=714653.387				561.26	323.8x10.31 559.79 323.8x10.31 559.79				1900	VP-13	N=3683291.087 E=714830.020				562.07	323.8x10.31 561.03 323.8x10.31 561.03				1470	VP-21	N=3683010.237 E=714893.640				571.95	323.8x10.31 570.99 323.8x10.31 570.99				1390
	N=3683486.510 E=714654.455					N=3683291.987 E=714830.920						N=3683009.337 E=714894.540																				
VP-6	N=3683457.943 E=714786.548				556.25	323.8x10.31 555.09 323.8x10.31 555.09				1590	VP-14	N=3683291.087 E=714932.977				561.45	323.8x10.31 560.29 323.8x10.31 560.29				1590	VP-22	N=3683010.933 E=714676.697				572.05	323.8x10.31 571.09 323.8x10.31 571.09				1390
	N=3683458.636 E=714787.616					N=3683291.987 E=714933.877						N=3683010.033 E=714677.597																				
VP-7	N=3683412.804 E=714563.648				560.90	323.8x10.31 559.97 323.8x10.31 559.97				1360	VP-15	N=3683194.382 E=714951.561				566.51	323.8x10.31 565.66 323.8x10.31 565.66				1280	VP-23	N=3683301.995 E=714566.745				563.56	323.8x10.31 562.40 323.8x10.31 562.40				1590
	N=3683411.920 E=714564.563					N=3683193.202 E=714952.038						N=3683301.417 E=714567.879																				
VP-8	N=3683312.586 E=714619.831				562.86	323.8x10.31 561.70 323.8x10.31 561.70				1590	VP-16	N=3683127.644 E=714806.437				567.99	323.8x10.31 567.14 323.8x10.31 567.14				1280											
	N=3683311.671 E=714618.947					N=3683128.374 E=714807.480																										

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. ODDCL HOUSE TOWER-B, FIRST FLOOR F&GB, 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.	01
		SCALE	AS SHOWN
		SHEET	1 OF 18

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
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 - 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.
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PIPING LAYOUT FOR FIRE WATER SYSTEM(UNIT-35)	NGP-007-FIF-15.01-0004-24-01

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
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CLIENT	OIL&GAS DEVELOPMENT COMPANY LTD. OGDCL HOUSE TOWER-B, FIRST FLOOR F6/08, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN FAX: +92-051-2823053, PHONE: +92-051-5209859
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

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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

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
(SCALE 1:20)

SECTION B
(SCALE 1:20)

DETAIL 1
SCALE 1:10

WATER STOP DETAIL

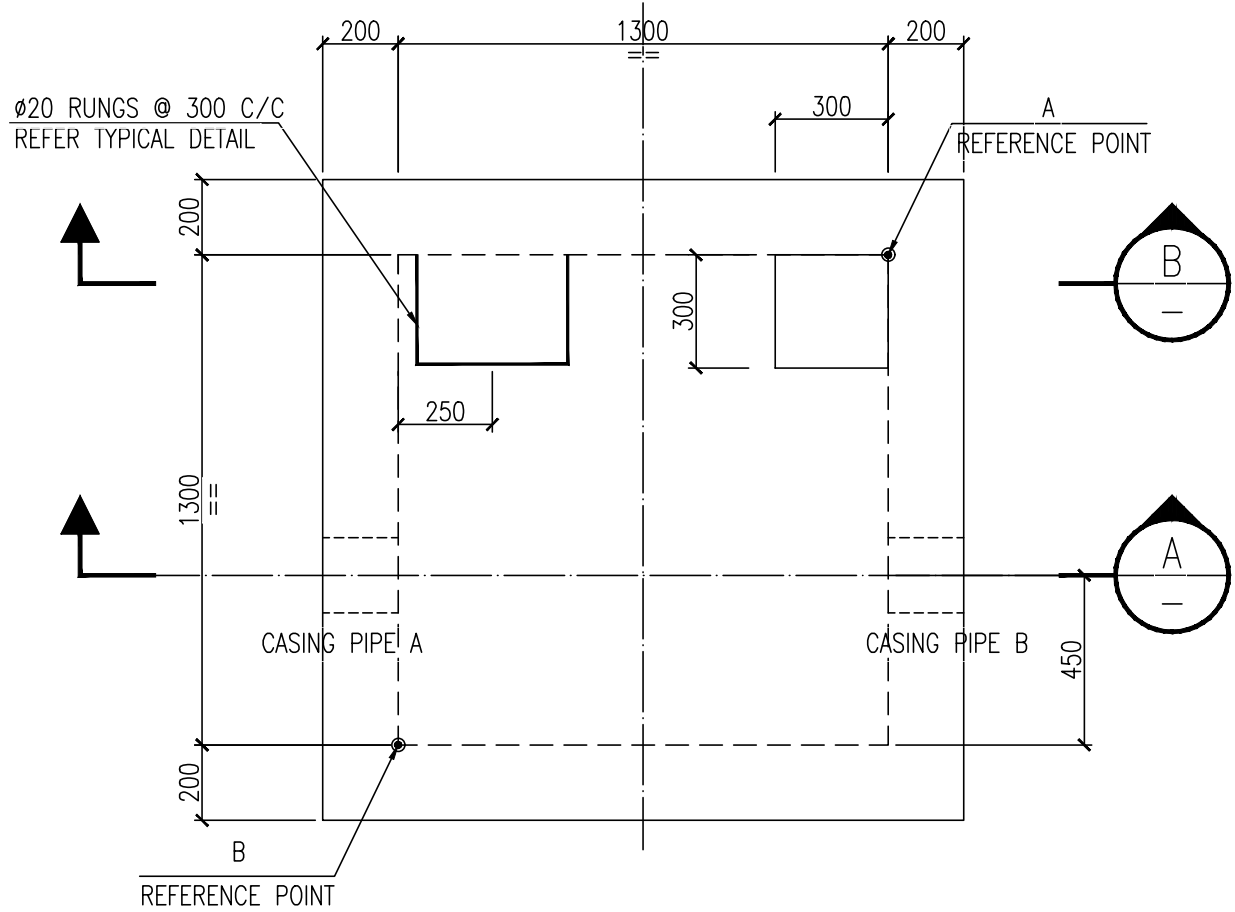
SCALE 1:5

(WATER STOP SHALL BE BROKEN AT EMBEDDED CASING PIPE)

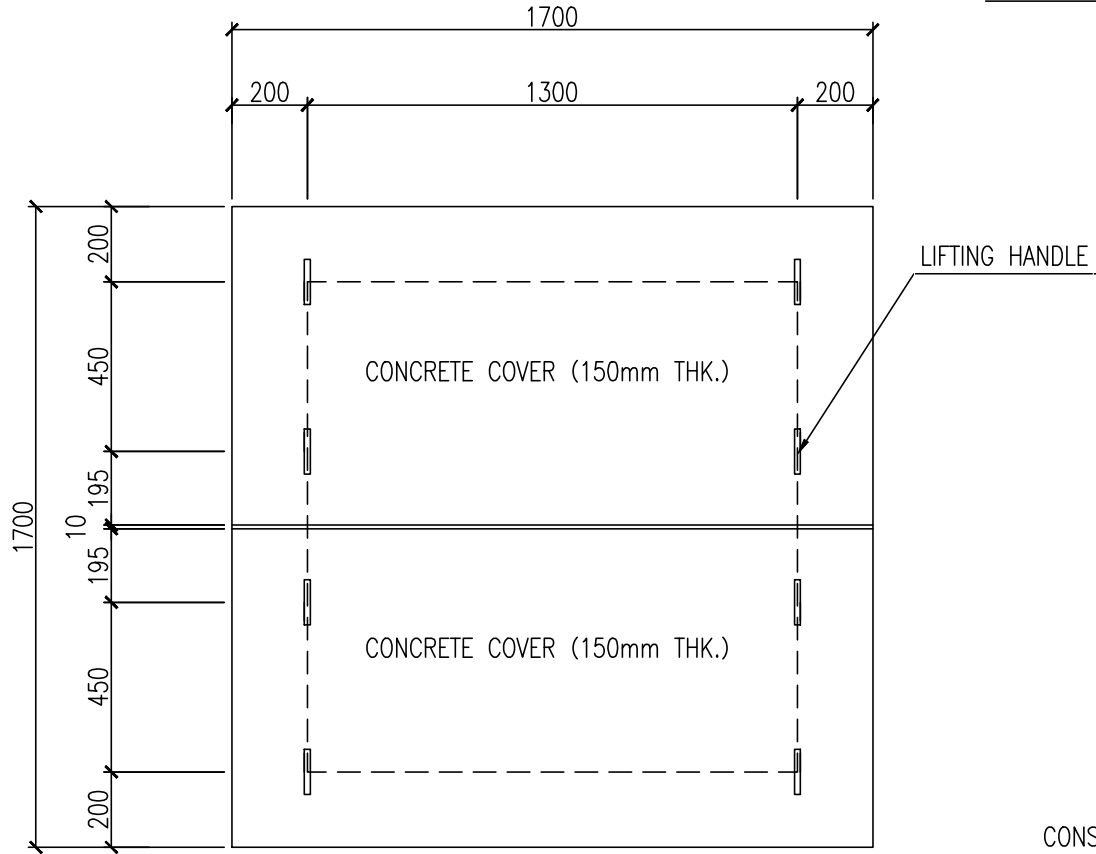
TYPICAL DETAILS OF RUNG

SCALE 1:10

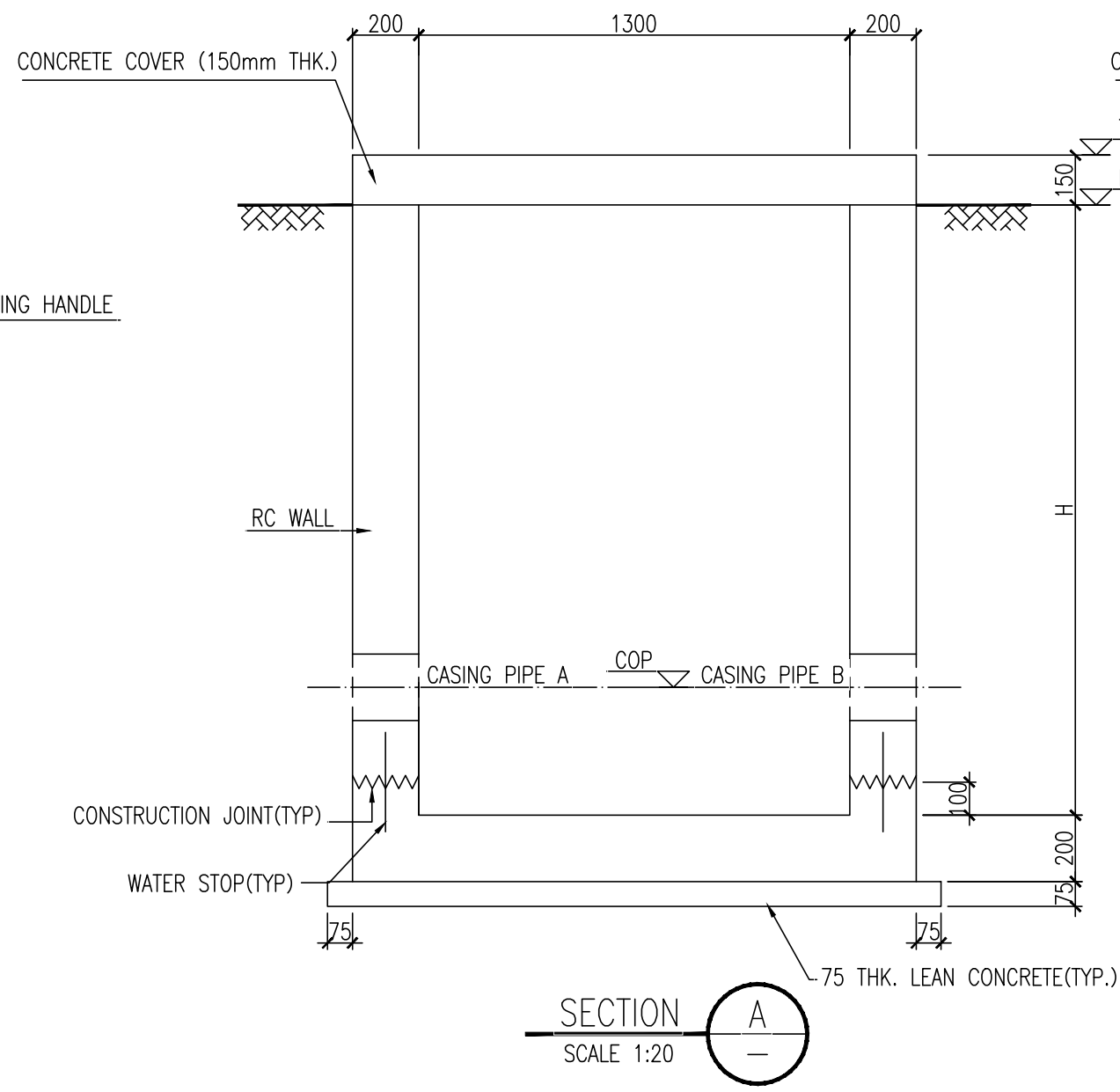
SCHEDULE OF VALVE PIT (TYP-2)														
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	A	N E	B	N E		A		B		C		D		
						CASING PIPE	COP	CASING PIPE	COP	CASING PIPE	COP	CASING PIPE	COP	
VP-24	N=3683514.462 E=714827.943		N=3683515.961 E=714829.690		559.98	323.8x10.31	558.94	323.8x10.31	558.94	Ø219.1x8.18	558.94	Ø219.1x8.18	558.94	1470
VP-25	N=3683513.631 E=714582.550		N=3683515.153 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



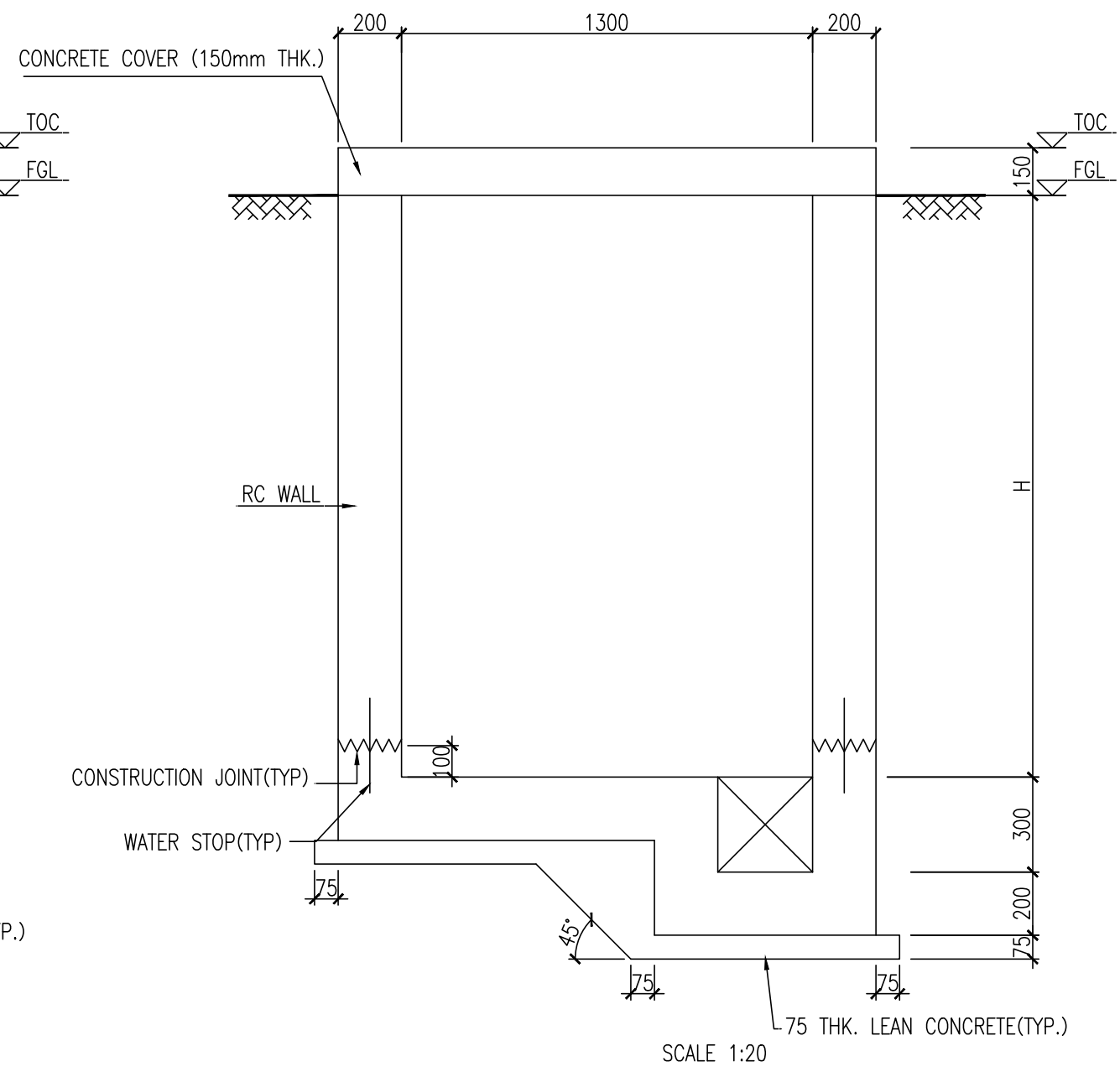
PLAN OF VALVE PIT(TYP-3)
(FOR FIRE WATER SYSTEM)
SCALE 1:20



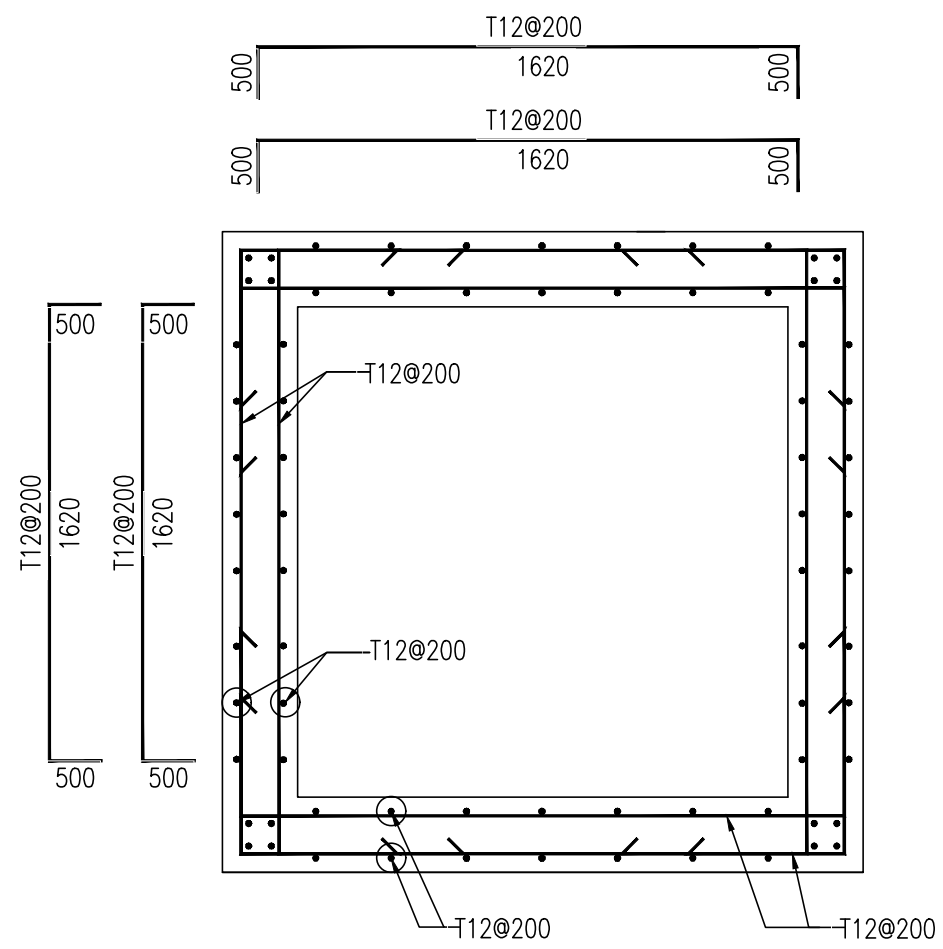
VALVE PIT COVER PLAN(TYP-3)
SCALE 1:20



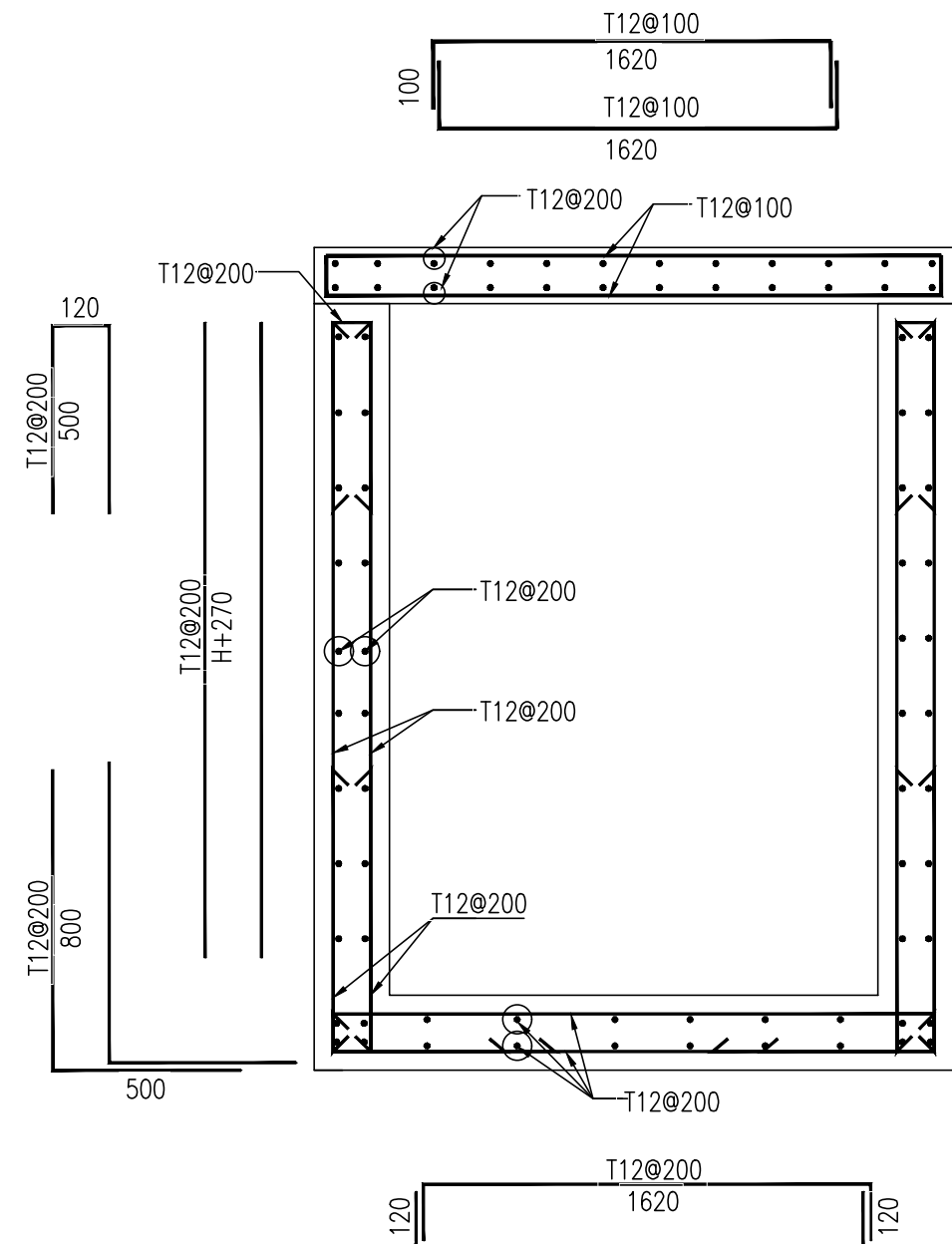
SECTION A-A
SCALE 1:20



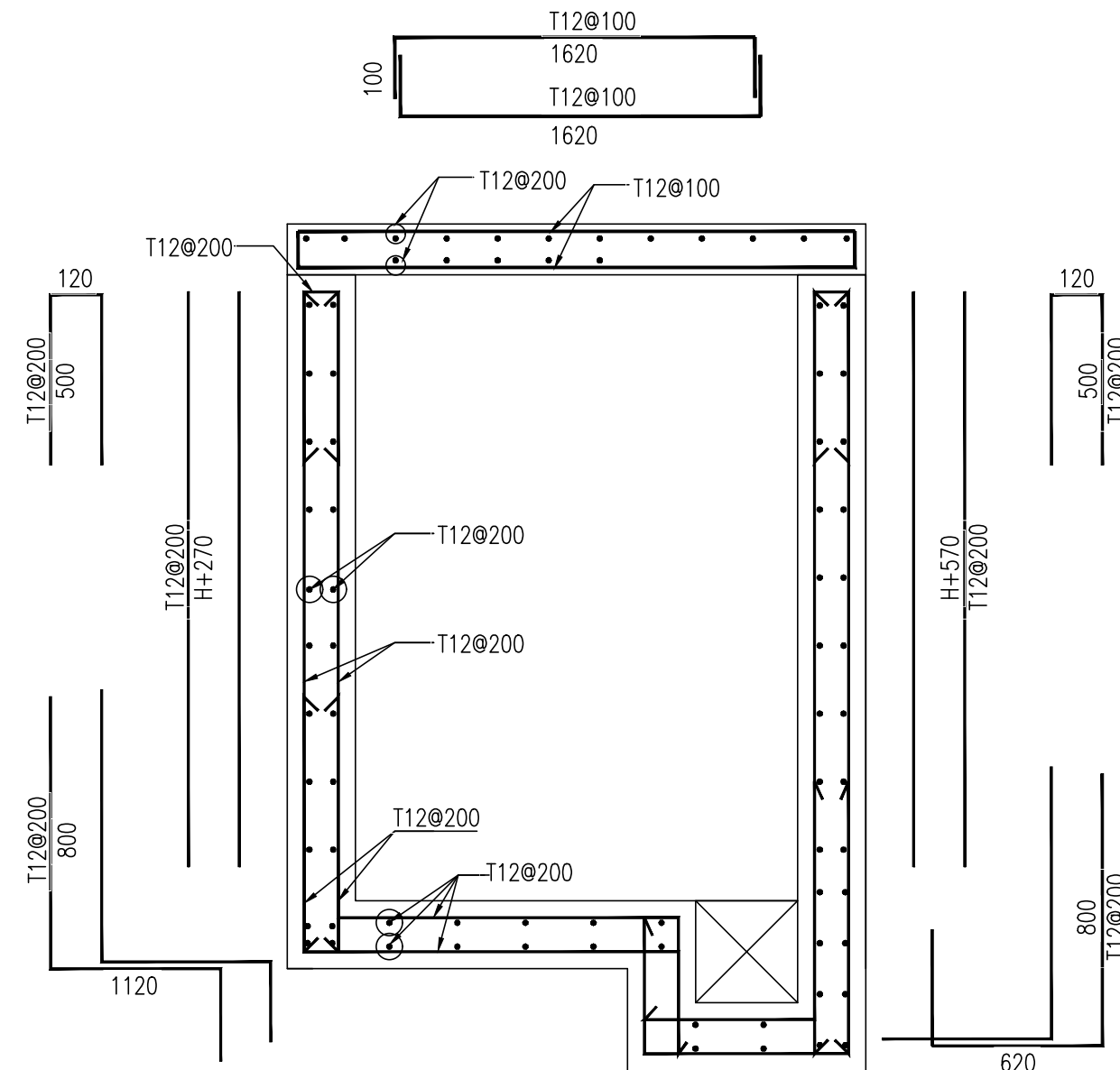
SECTION B-B
SCALE 1:20



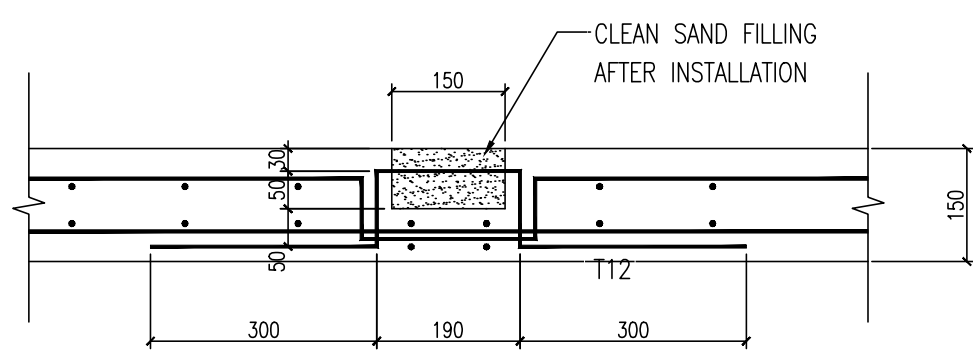
PLAN OF VALVE PIT(TYP-3)
REINFORCEMENT DETAIL
SCALE 1:20



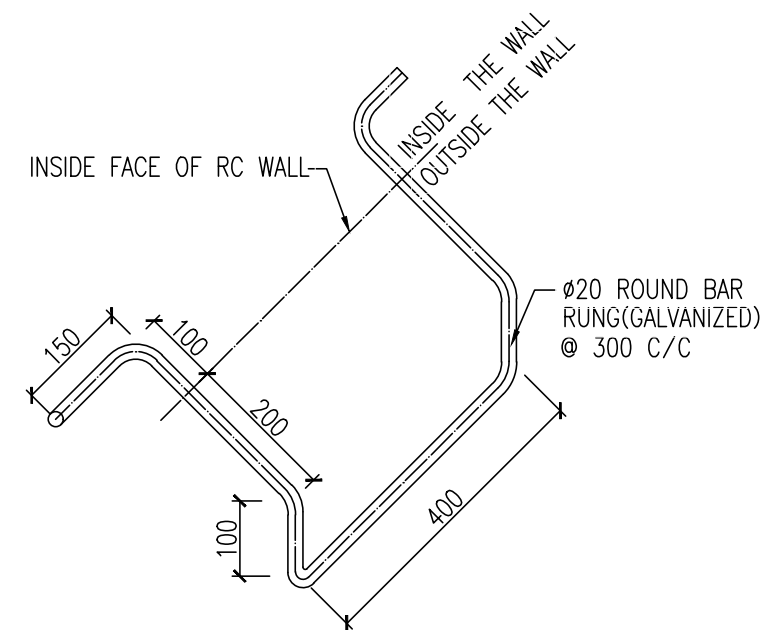
SECTION A-A
REINFORCEMENT DETAIL
SCALE 1:20



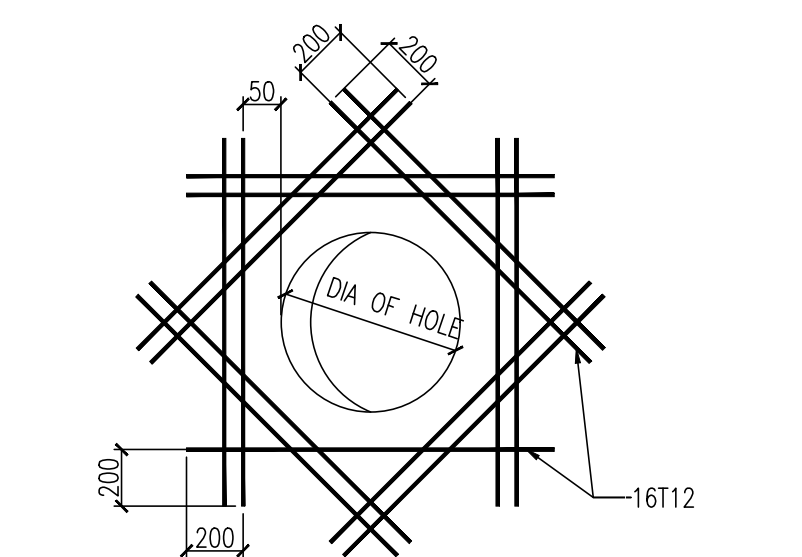
SECTION B-B
REINFORCEMENT DETAIL
SCALE 1:20



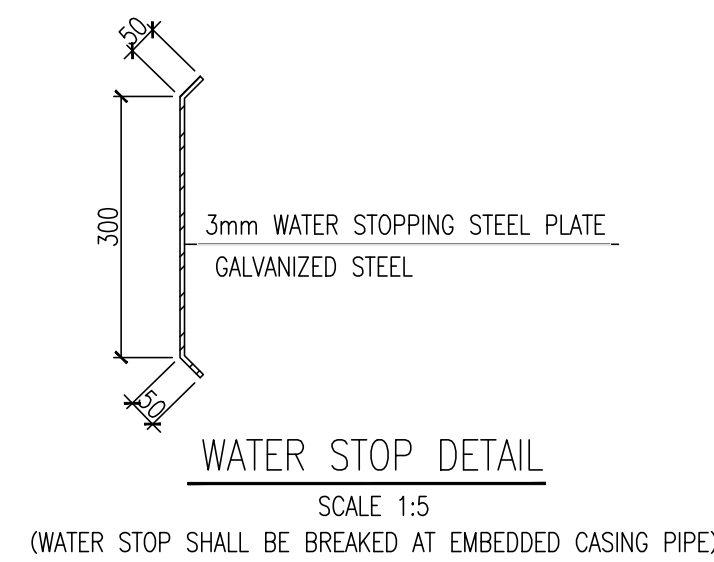
LIFTING HANDLE DETAIL(TYP)
SCALE 1:10



TYPICAL DETAILS OF RUNG
SCALE 1:10



REINFORCEMENT DETAIL FOR HOLES ON WALL
SCALE 1:10



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

GENERAL NOTES

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 - 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.
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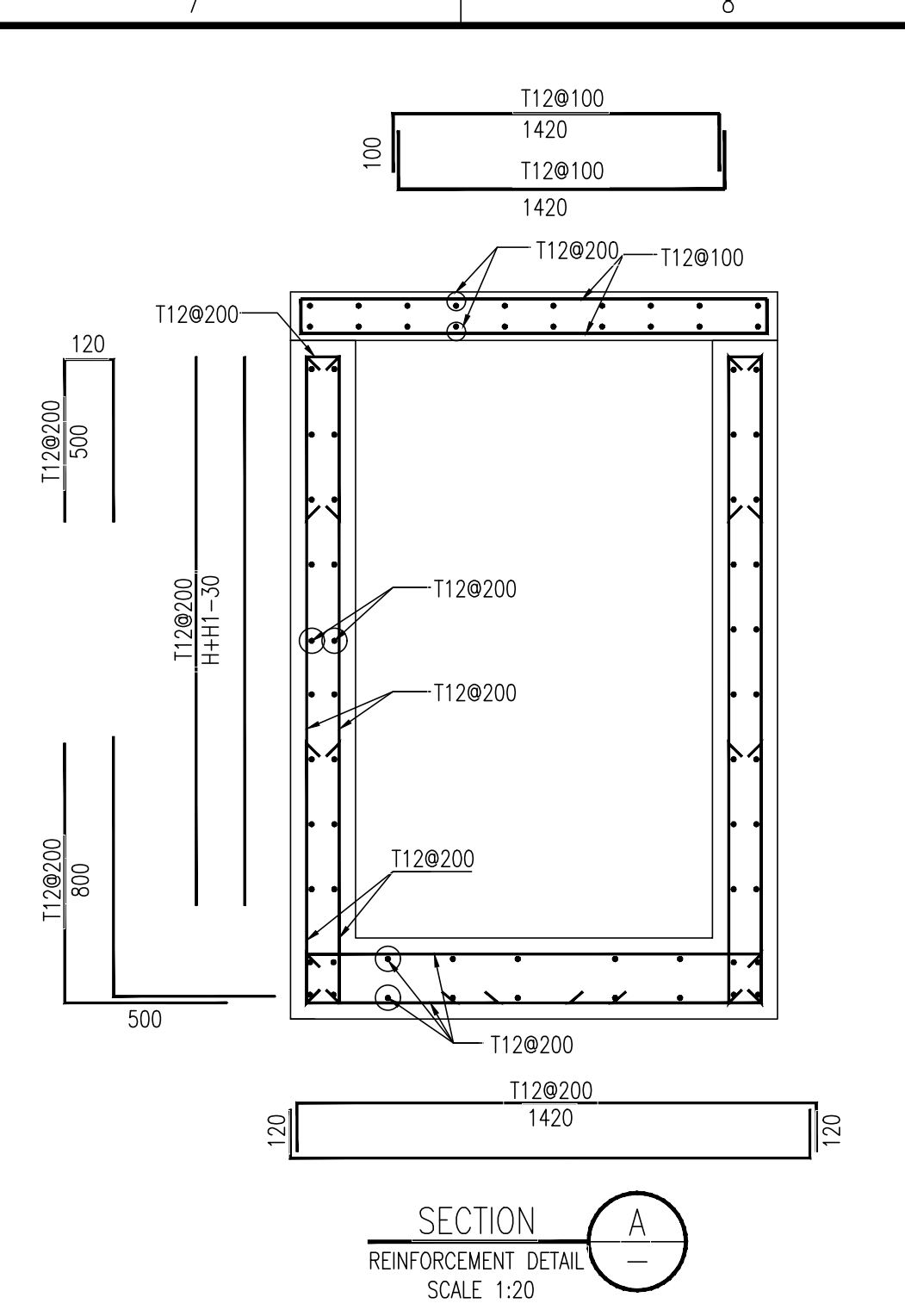
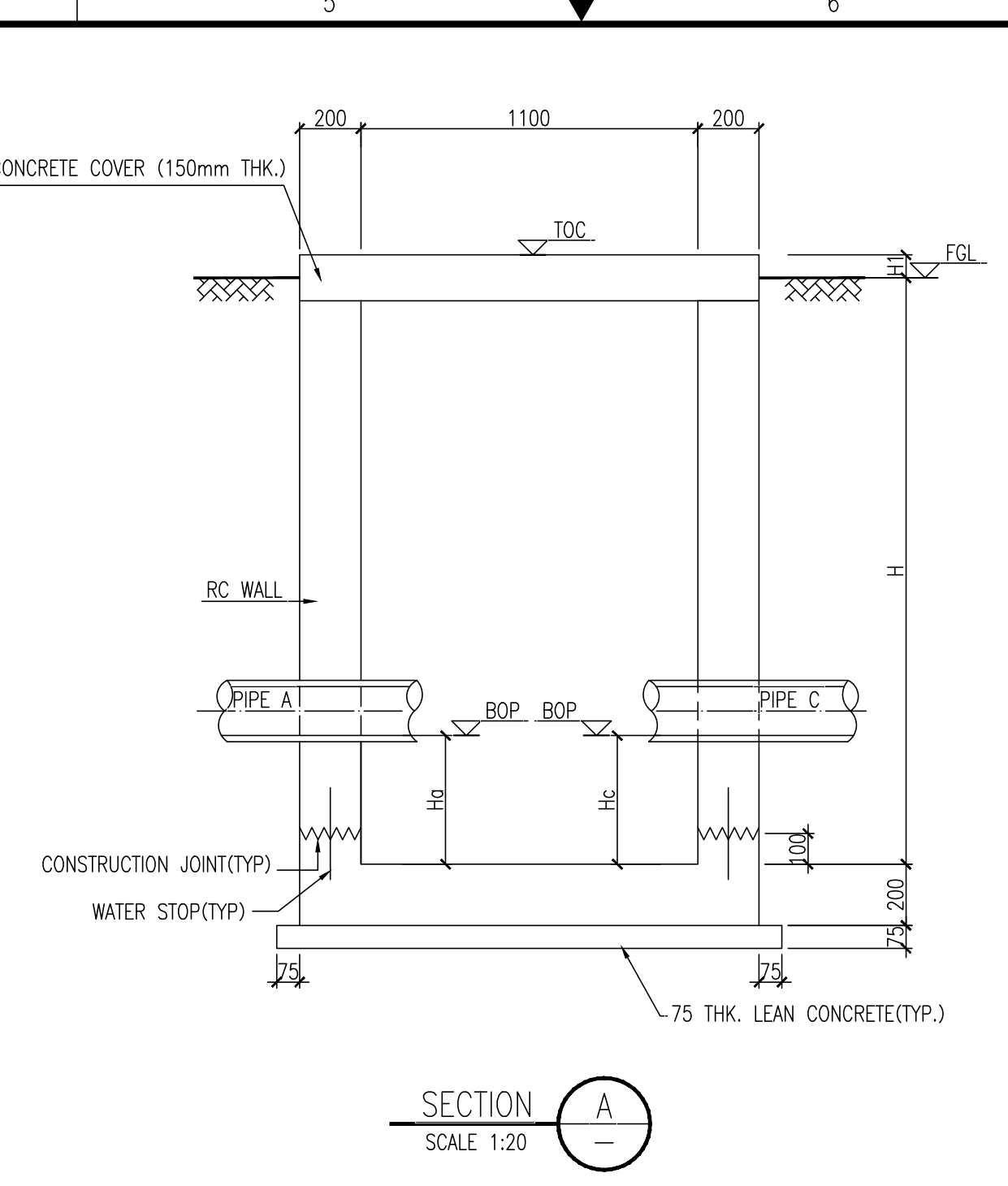
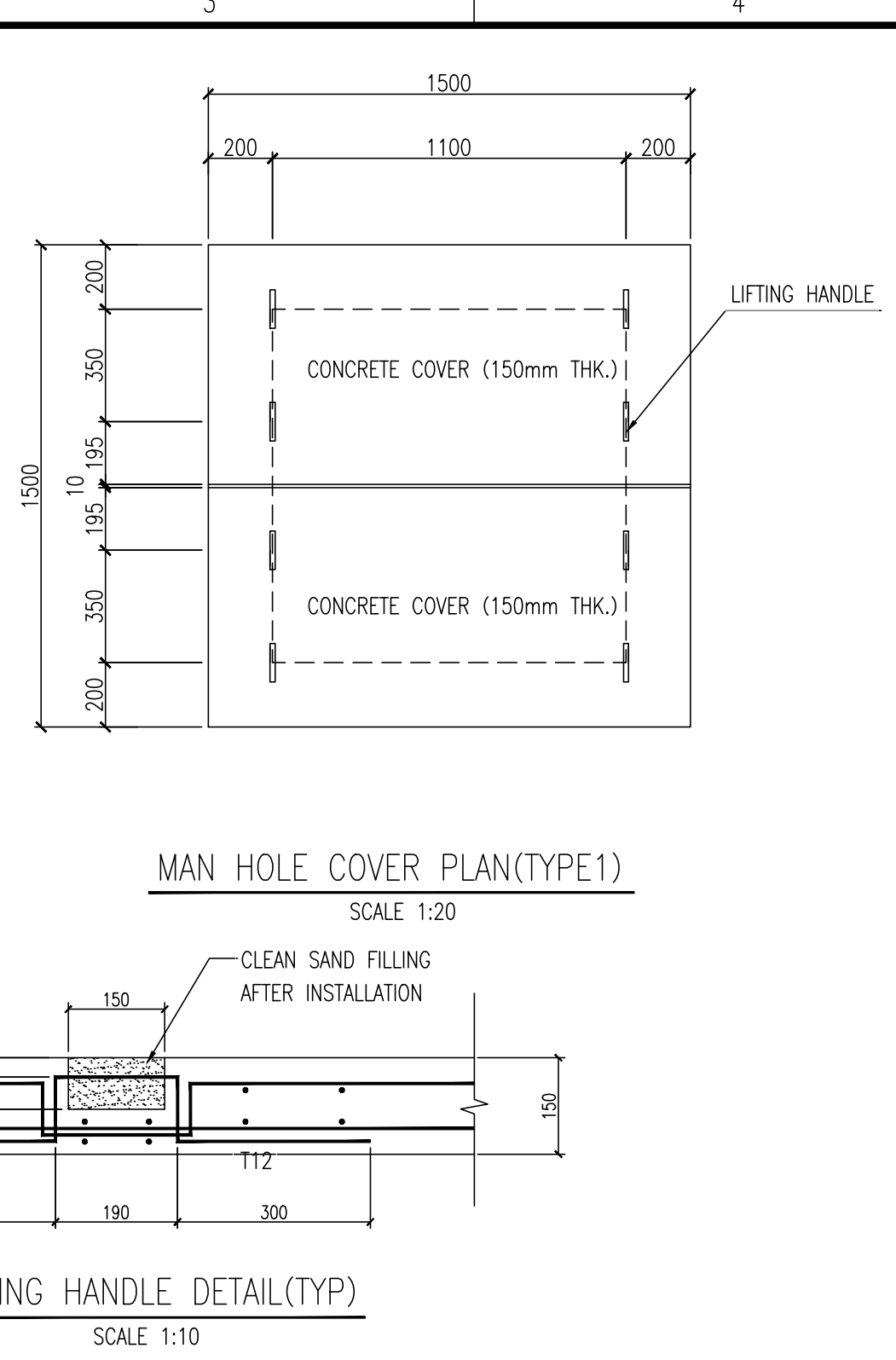
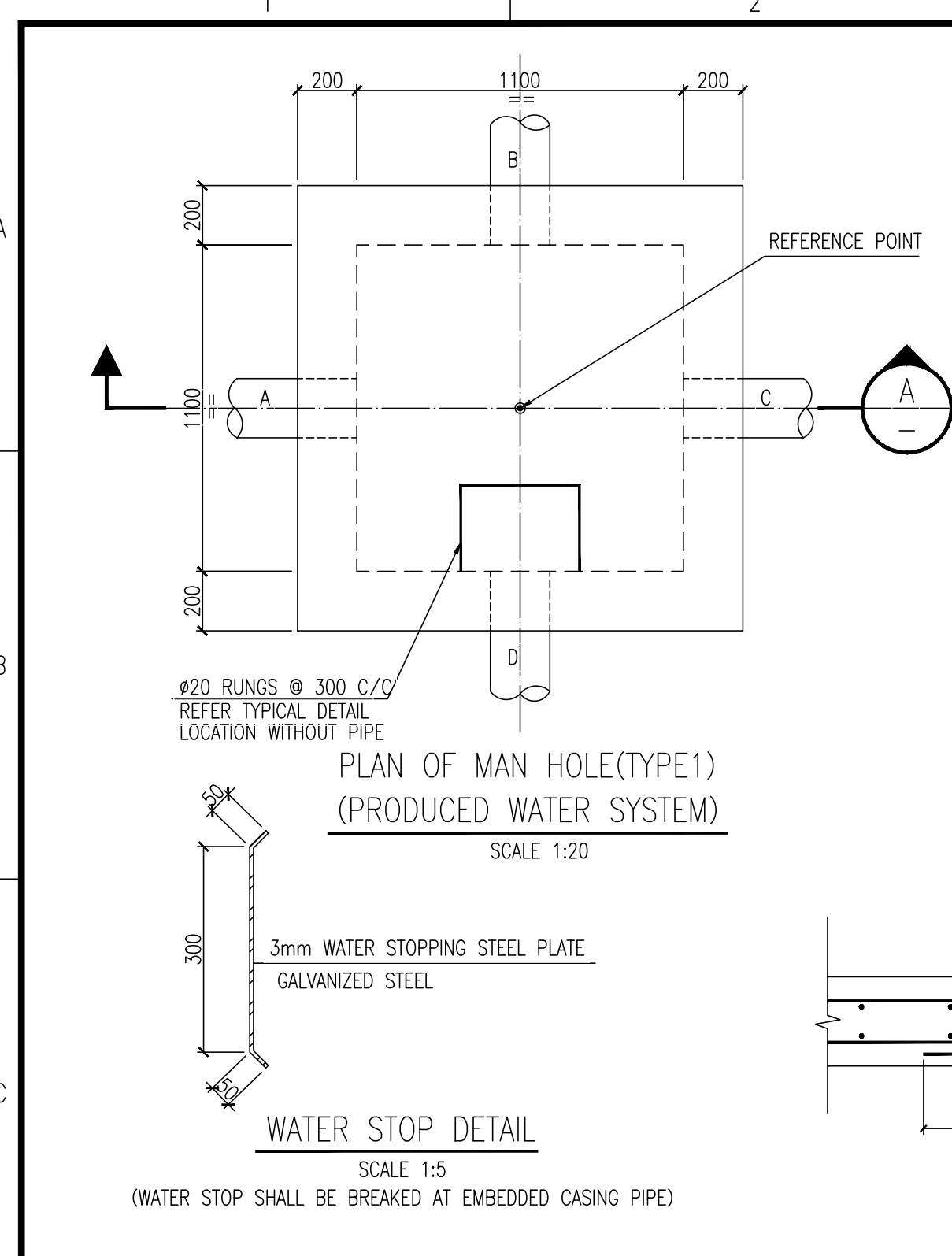
REFERENCE DOCUMENTS

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
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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

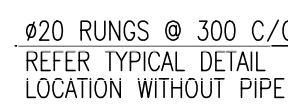
CLIENT	OIL&GAS DEVELOPMENT COMPANY LTD. ODDOL HOUSE TOWER-B, FIRST FLOOR F6/08, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN FAX: +92 051 2623053, PHONE: +92 051 5209859
CONSULTANT	Zishan Engineers (Pvt.) Ltd. An ISO 9001-2008 certified company 47/F Block 6, PECHS, Karachi-Pakistan Tel: (92-91) 34393045-48, & 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 3 OF 18



- ### GENERAL NOTES
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 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
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 - 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.
 - THE ANGLE OF PIPES IN SOME MAN HOLE ARE SPECIAL, THE PIPES ARE NOT VERTICAL FROM RC WALL. THE EXACT ANGLE REFER TO SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38) NGP-008-PIP-15.01-0005-24 AND KEY PLAN FOR WATER TREATMENT AREA NGP-008-PIP-15.01-0002-00. THESE MAN HOLE CONCLUDE NO.MH2,MH3,MH17, MH24,MH43,MH44,MH46,MH47,MH48,MH58,MH60,W2,W5.
 - PITS IN THIS SHEET ARE ONLY FOR PRODUCED WATER SYSTEM.

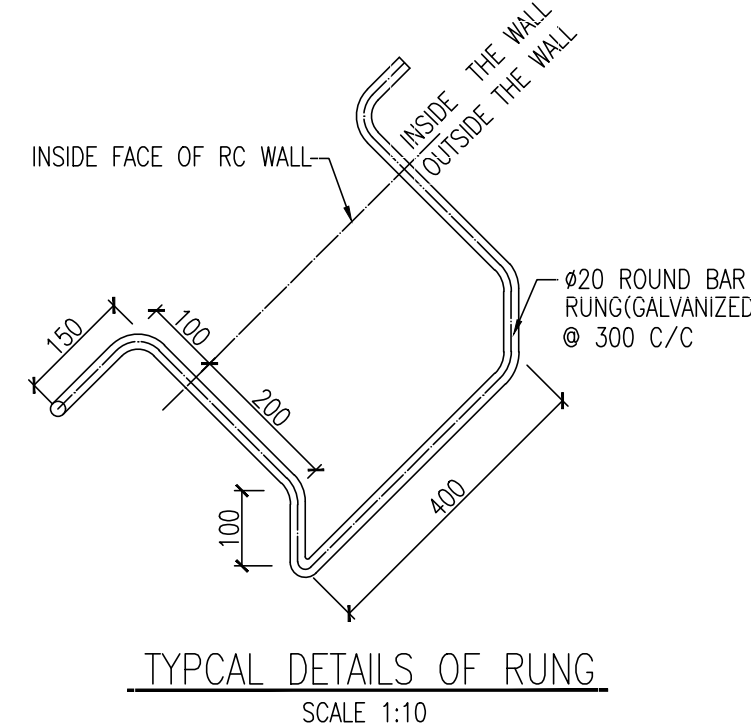
SCHEDULE OF MAN HOLE															SCHEDULE OF MAN HOLE																				
NO	CENTER COORDINATES		FGL m	PIPE SIZE(INCH) & ELEVATION (INSIDE BOP)								DEPTH H(mm)	H1 (mm)	Ha (mm)	Hb (mm)	Hc (mm)	Hd (mm)	NO	CENTER COORDINATES		FGL m	PIPE SIZE(INCH) & ELEVATION (INSIDE BOP)								DEPTH H(mm)	H1 (mm)	Ha (mm)	Hb (mm)	Hc (mm)	Hd (mm)
				A		B		C		D												A		B		C		D							
	N	E		PIPE	BOP	PIPE	BOP	PIPE	BOP	PIPE	BOP								N	E		PIPE	BOP	PIPE	BOP	PIPE	BOP	PIPE	BOP						
MH1	3683075.395	714818.646	571.72	8"	569.64			8"	569.64			2280	0	200			MH51	3683381.451	715004.269	556.50	16"	554.40	16"	554.40	8"	554.79			2300	75	200	200	590		
MH2	3683075.395	714848.646	571.72	8"	569.52			8"	569.52			2400	0	200			MH52	3683027.701	714751.147	571.90			8"	570.89	6"	571.07			1210	0		200	380		
MH3	3683072.895	714883.147	571.46	8"	569.38	8"	569.38					2280	75	200	200			MH53	3683051.381	714751.147	571.80			8"	570.00		8"	570.80	2000	0		200		1000	
MH4	3683084.895	714883.147	570.83			8"	568.46			8"	569.33	2570	75		200		1070	MH54	3683075.395	714751.147	571.72				8"	569.91	8"	569.91	2010	0			200	200	
MH5	3683102.895	714883.147	569.11			8"	566.97			8"	568.39	2340	75		200		1620	MH55	3683075.395	714793.784	571.72	8"	569.74	8"	570.13	8"	569.74	6"	571.17	2180	0	200	590	200	1630
MH6	3683132.895	714883.147	567.57			8"	566.58			8"	566.85	1190	75		200		470	MH56	3683416.686	714936.846	556.16	6"	554.06		6"	554.06			2300	75	200		200		
MH7	3683155.709	714883.147	567.22					8"	566.10	8"	566.48	1320	75		200	580		MH57	3683416.686	714924.147	556.12			6"	554.01	6"	554.01	6"	554.01	2310	75		200	200	200
MH8	3683155.709	714894.147	567.22	8"	566.05	8"	566.05					1370	75	200	200			MH58	3683442.766	714924.147	550.50			6"	549.80		6"	549.80	900	75		200		200	
MH9	3683182.401	714894.147	562.95			8"	562.08			8"	562.23	1070	75		200		350	MH59	3683435.280	714972.838	556.10	6"	555.17		8"	555.12			1180	0	250		200		
MH10	3683206.295	714894.147	562.70			8"	561.74	6"	562.03	8"	561.98	1160	75		200	490	440	MH60	3683425.937	715007.269	556.25	8"	554.98			8"	554.98	1470	0	200			200		
MH11	3683206.295	714924.770	566.85	6"	565.80							1250	75	200				MH61	3683381.451	715004.269	556.50	8"	554.80	8"	554.80			1900	75	200	200				
MH12	3683249.901	714894.147	562.29			8"	561.29			8"	561.57	1200	75		200		480	MH62	3683104.401	714793.784	571.60	de75	571.00				8"	570.25	1550	75	950			200	
MH13	3683287.901	714894.147	561.86	8"	560.85					8"	561.14	1210	75	200			490	MH64	3683131.149	714637.597	570.80			8"	568.35	6"	569.32			2650	75		200	1170	
MH14	3683287.901	714872.547	561.96	16"	560.57			8"	560.76	6"	561.42	1590	75	200		390	1050	MH65	3683165.251	714666.047	569.05	8"	568.11		8"	568.11	8"	568.30	1140	75	200		200	390	
MH15	3683287.901	714835.547	562.07	16"	560.46			16"	560.46	6"	561.53	1810	75	200		200	1270	MH66	3683165.251	714694.147	568.80	8"	568.00		8"	566.47	8"	567.61	2530	75	1730		200	1340	
MH16	3683287.901	714797.547	562.20					16"	560.35	16"	560.35	2050	75			200	200	MH67	3683142.813	714694.147	569.23	6"	567.75	8"	567.70			1730	75	250	200				
MH17	3683283.901	714797.547	562.22	16"	560.33	16"	560.33			16"	561.04	2090	75	200	200		910	MH68	3683165.251	714716.347	567.10	8"	566.38	8"	566.38			920	75	200	200				
MH18	3683219.701	714873.547	562.58	16"	561.45					6"	561.69	1330	75	200			440	MH69	3683179.149	714716.347	563.55			8"	562.52		8"	562.70	1230	75		200		380	
MH19	3683219.701	714835.547	562.70	16"	561.34			16"	561.34	6"	561.80	1560	75	200		200	660	MH70	3683214.149	714716.347	563.20			8"	562.22		8"	562.38	1180	75		200	360		
MH20	3683219.701	714801.547	562.80	16"	561.66	16"	561.24	16"	561.24	16"	561.24	1760	75	620	200	200		MH71	3683249.149	714716.347	562.80			8"	561.84		8"	562.08	1160	75		200	440		
MH21	3683219.701	714798.547	562.80	16"	561.67			16"	561.67	6"	561.91	1330	75	200			440	MH72	3683288.001	714716.347	562.40				8"	561.46	8"	561.68	1140	75			200	420	
MH22	3683219.701	714761.547	562.92					16"	561.78	6"	562.02	1340	75			200	440	MH73	3683288.001	714761.547	562.30	8"	561.28			8"	561.28	1220	75	200			200		
MH23	3683249.701	714801.547	562.68			16"	561.15			16"	561.15	1730	75		200		200	MH74	3683161.149	714637.597	569.19				8"	568.23	8"	568.23	1160	75			200	200	
MH24	3683274.703	714801.547	562.58	6"	561.68	16"	561.07			16"	561.07	1710	75	810	200		200	MH75	3683165.251	714654.047	569.15	8"	568.16		8"	568.16			1190	75	200		200		
MH25	3683283.901	714786.547	562.25	16"	561.00	16"	560.29	16"	560.29	16"	560.29	2160	75	910	200			MH76	3683161.701	714666.047	569.10	6"	568.37	8"	568.32			980	75	250	200				
MH26	3683283.901	714761.547	562.32			8"	561.27	16"	561.08	6"	561.77	1440	75		390	200	890	W1	3683399.408	714983.019	556.35	6"	555.30			6"	555.30	1250	75	200			200		
MH27	3683309.787	714786.547	558.60	16"	556.75	16"	556.75			16"	557.69	2050	75	200	200		1140	W2	3683399.408	714969.547	556.32	6"	555.25			6"	555.25	1270	75	200		200	420		
MH29	3683460.245	714668.921	559.00			16"	558.04	16"	557.55			1650	75			690	200	W3	3683399.408	714961.647	556.30			6"	555.22	6"	555.22			1280	75		200	200	
MH30	3683459.993	714674.916	558.44	16"	557.53					16"	557.53	1110	75				200	W4	3683409.877	714961.647	556.25			6"	554.14		6"	555.18	2310	75		200		1240	
MH37	3683309.781	714737.162	558.60	16"	556.89	16"	557.43	16"	556.89			1910	75	200	740	200		W5	3683326.811	714955.802	556.58			6"	555.95	6"	555.97			830	75		200	220	
MH38	3683309.781	714744.162	558.60	16"	556.87	6"	557.43	16"	556.87			1930	75	200	760	200		W6	3683342.778	714955.802	556.51	6"	555.95	6"	555.90	6"	555.87	810	75	250	200		200		
MH39	3683313.787	714786.547	558.60					16"	556.74	16"	556.74	2060	75			200	200	W7	3683357.301	714955.802	556.46			6"	555.86	6"	555.87	800	75		200	210	200		
MH40	3683313.787	714796.547	558.60	16"	556.71	16"	556.71	16"	556.71			2090	75	200	200			W8	3683367.423	714955.802	556.40	6"	555.68	6"	555.68		6"	555.83	920	75	200	200		350	
MH43	3683318.287	714840.547	556.28	16"	555.10			16"	555.10			1380	75	200			200	W9	3683386.473	714955.802	556.34	6"	555.62				6"	555.62	920	75	200			200	
MH44	3683315.473	714870.547	556.38	16"	555.01			16"	555.01			1570	75	200				W10	3683386.473	714941.447	556.30	6"	555.45			6"	555.76	1050	75	200		330	510		
MH45	3683315.473	714900.547	556.46	16"	554.92			16"	554.92			1740	75	200		200		W11	3683386.473	714895.802	556.16	6"	555.31		6"	555.31		6"	1050	75	200		200		
MH46	3683315.473	714930.547	556.55	16"	554.83			16"	554.83			1920	75	200		200		W12	3683386.473	714865.802	556.07	6"	555.22		6"	555.22		6"	1050	75	200		200		
MH47	3683317.473	714960.547	556.64	16"	554.74			16"	554.74			2100	75	200		200		W13	3683386.473	714836.812	556.00	6"	555.55		6"	555.13		6"	1270	75	820		400		
MH48	3683315.473	714989.269	556.75	16"	554.65	16"	554.65					2300	75	200	200			W14	3683352.045	714924.147															



SCALE 1:20



SCALE 1:20



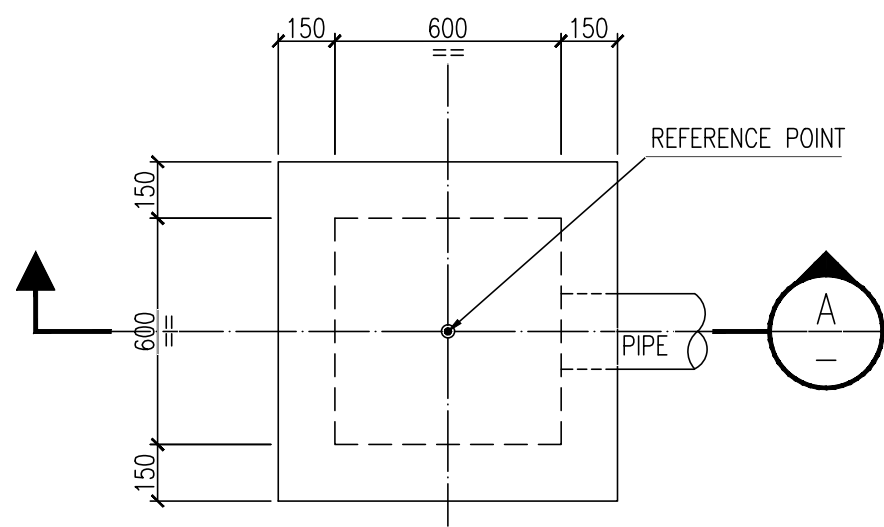
SCHEDULE OF MAN HOLE

1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
 - STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
 - LEAN CONCRETE : $F_c' = 10\text{MPa}$
3. YIELD STRENGTH OF REINFORCEMENT BAR
 - $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
4. INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
5. FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER
DWG NO. NGP-000-SCW-15.01-0005-00.
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7. PIPE CONNECTION REFER TO DWG NO. NGP-000-SCW-15.01-0059-00 FOR DETAILS.
8. 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.
9. PITS IN THIS SHEET ARE ONLY FOR PRODUCED WATER SYSTEM.

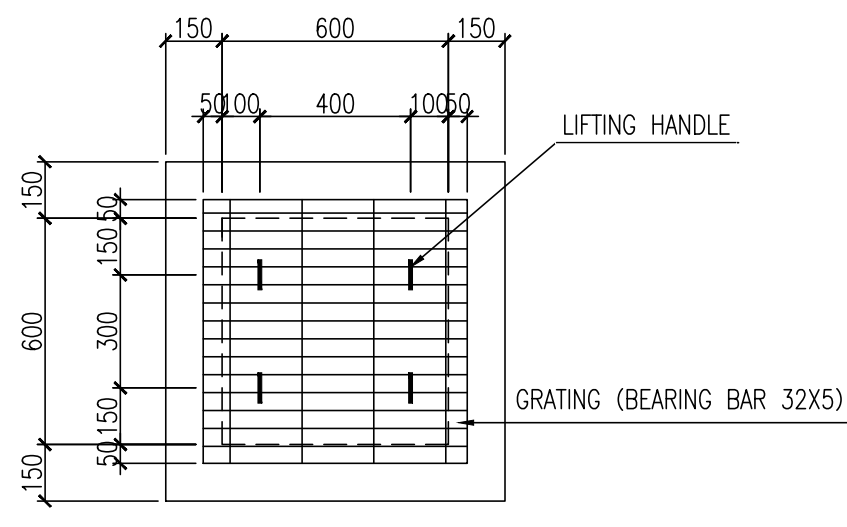
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GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
STANDARD DRAWING FOR PIPE CONNECTION	NGP-000-SCW-15.01-0059-00
SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0005-24

CLIENT.  **OIL&GAS DEVELOPMENT COMPANY LTD.**
OGDCL HOUSE TOWER-8, FIRST FLOOR F6/G6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
FAX: +92 051 2623033, PHONE: +92-051-9209859

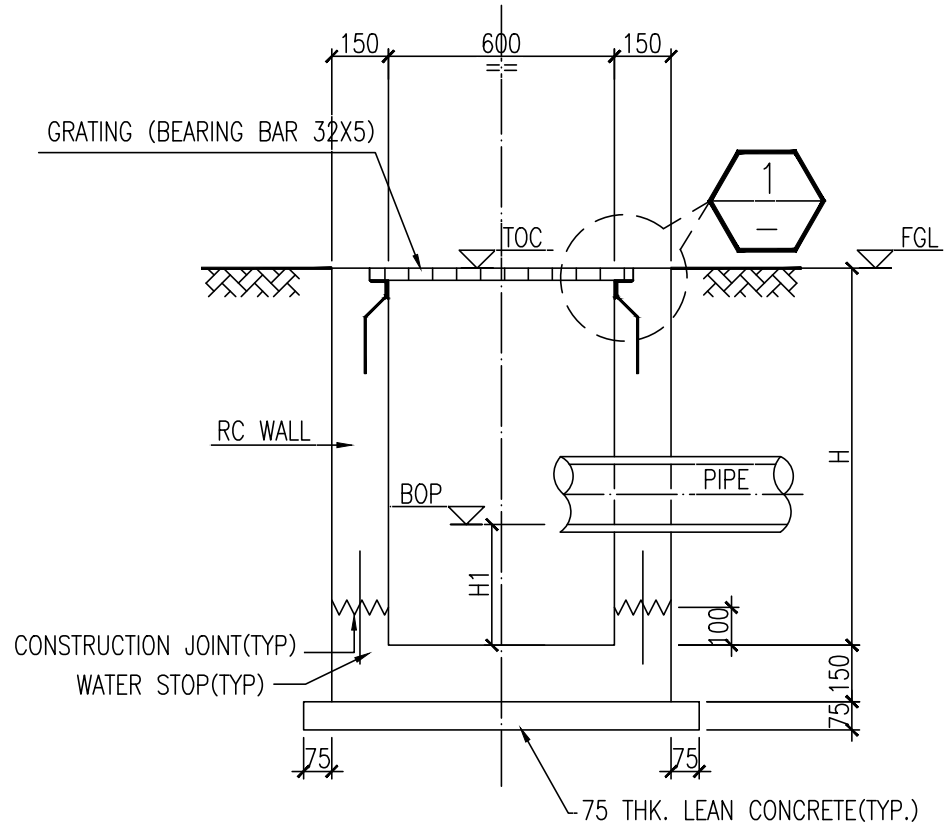
CONTRACTOR: HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED		PROJECT NO. NASHPA 1247	
PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/015		DRAWING NO. NGP-000-SCW-15.01-0009-00	
DRAWING TITLE: STANDARD DETAIL OF VALVE PIT		REV.	SCALE
		01	AS SHOWN 6 OF 18



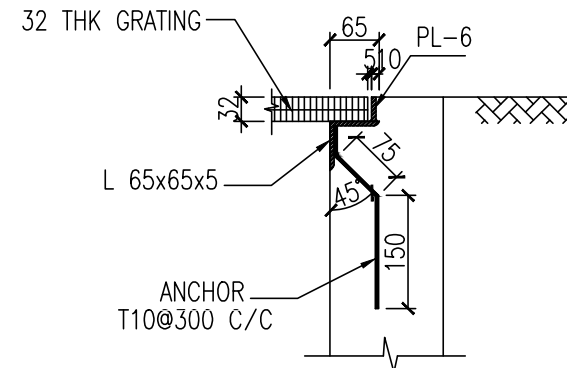
PLAN OF SUMP PIT
(PRODUCED WATER SYSTEM)
SCALE 1:20



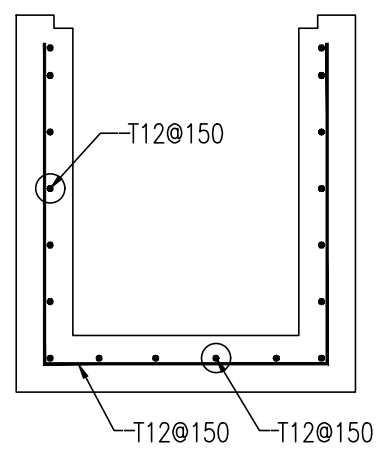
SUMP PIT COVER PLAN
SCALE 1:20



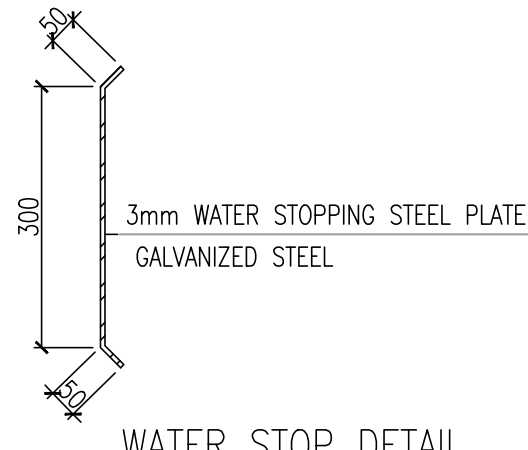
SECTION A-A
SCALE 1:20



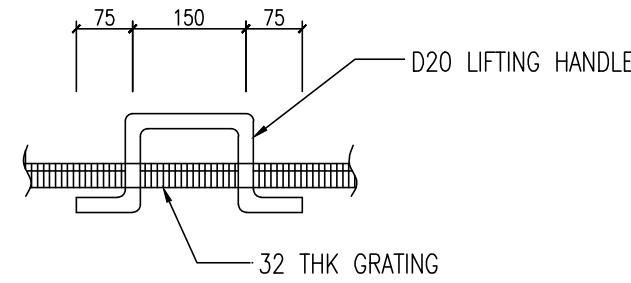
DETAIL 1
SCALE 1:10



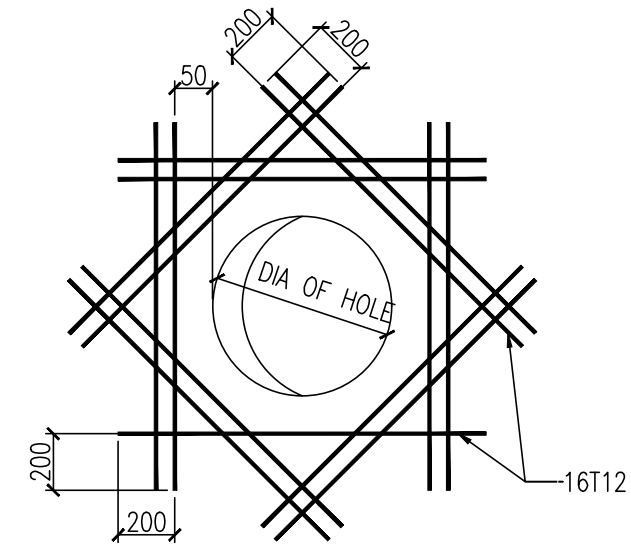
SECTION A-A
REINFORCEMENT DETAIL
SCALE 1:20



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

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

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.
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LEGEND

REFERENCE DOCUMENTS

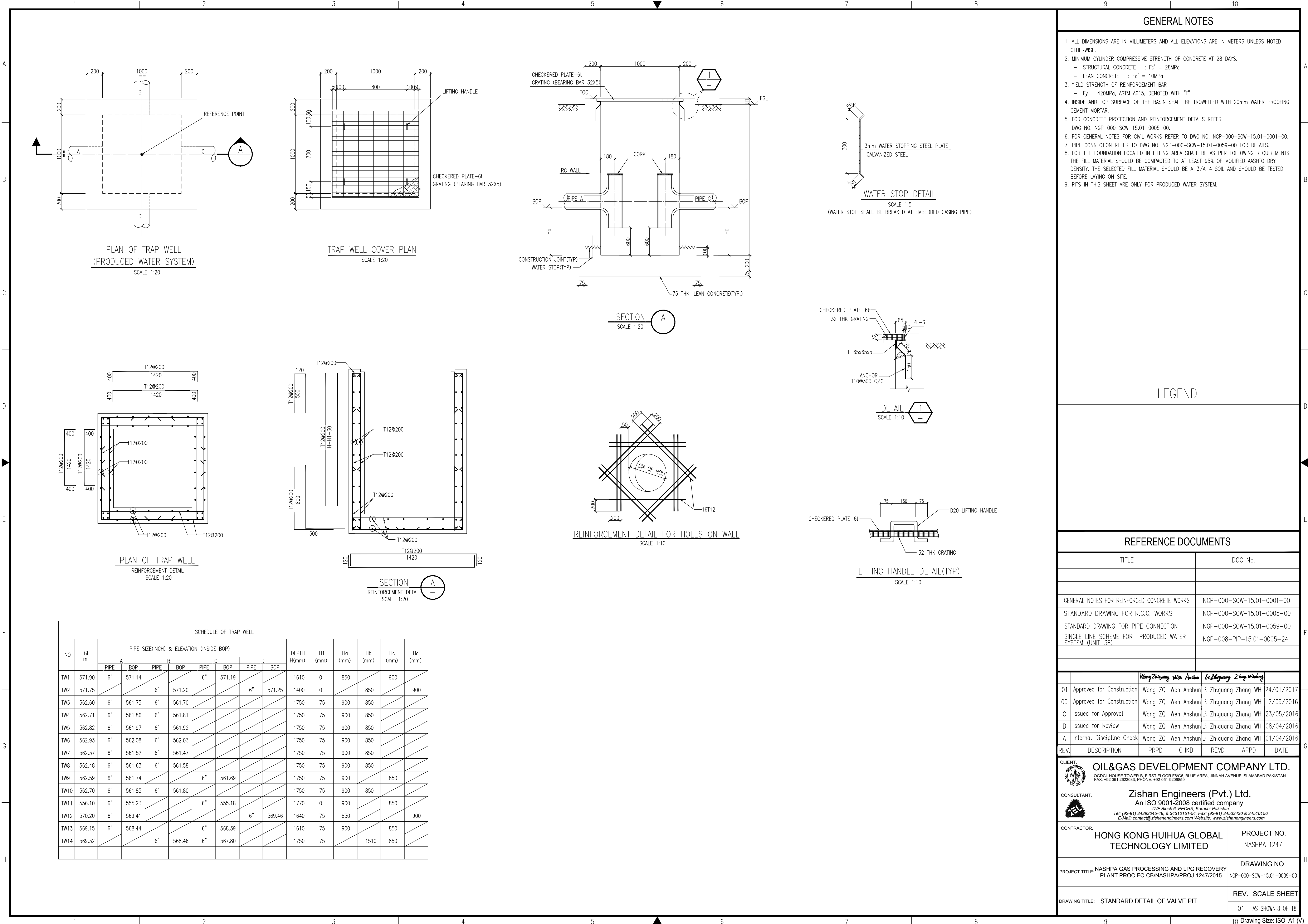
TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
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SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0005-24

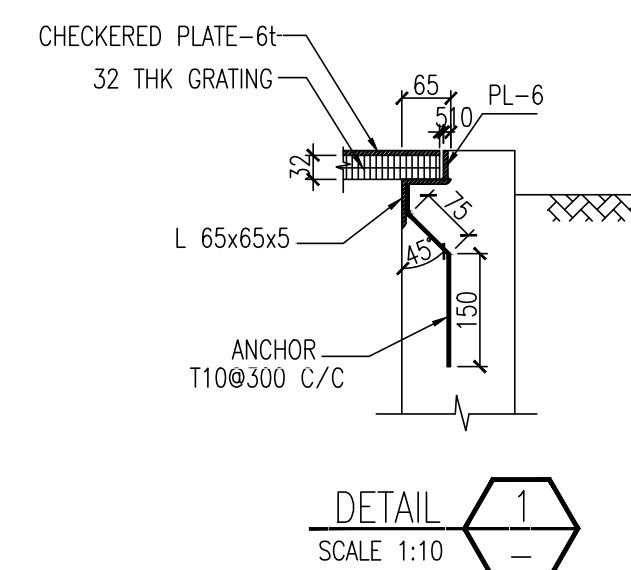
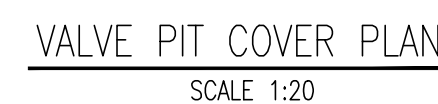
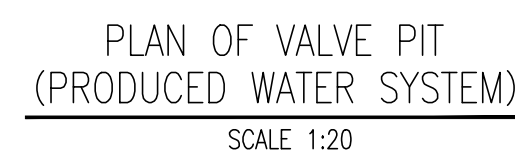
REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	24/01/2017
00	Approved for Construction	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	12/09/2016
C	Issued for Approval	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	23/05/2016
B	Issued for Review	Wang ZQ	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. OGDCL HOUSE TOWER-B, FIRST FLOOR F-6/68, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN FAX: +92-91-2023053, PHONE: +92-91-5209859
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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
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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





GENERAL NOTES

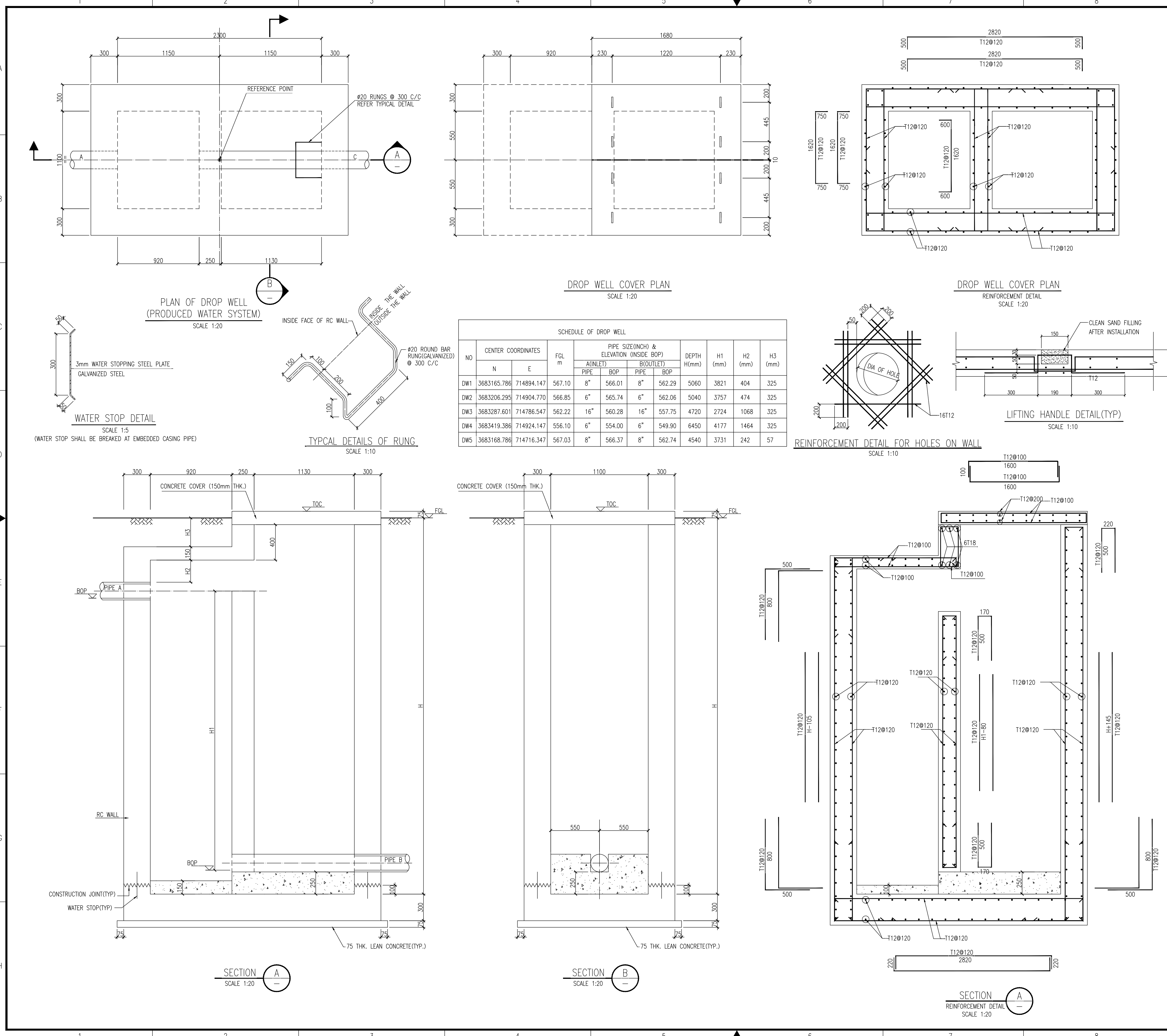
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DWG NO. NGP-000-SCW-15.01-0005-00.
6. FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
7. PIPE CONNECTION REFER TO DWG NO. NGP-000-SCW-15.01-0059-00 FOR DETAILS.
8. FOR THE FOUNDATION LOCATED IN FILLING AREA SHALL BE AS 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.
9. 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		
		<i>Wang Zhigang</i>	<i>Wen Anshun</i>	<i>Li Zhiguang</i>	<i>Zhang Weihong</i>	
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
REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE

<div>CLIENT</div> <div><div>OIL & GAS DEVELOPMENT COMPANY LTD. QGCIL HOUSE TOWER-B, FIRST FLOOR FBIG, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN FAX: +92 051 2622033, PHONE: +92 051-9209859</div></div>							
<div>CONSULTANT:</div> <div><div>Zishan Engineers (Pvt.) Ltd. An ISO 9001-2008 certified company 47/F Block 6, PECHS, Karachi-Pakistan Tel: (92-91) 34393045-48, & 34310751-54, Fax: (92-91) 34533430 & 34510156 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com</div></div>							
<div>CONTRACTOR:</div> <div>HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED</div>	<div>PROJECT NO.</div> <div>NASHPA 1247</div>						
<div>PROJECT TITLE:</div> <div><u>NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015</u></div>	<div>DRAWING NO.</div> <div>NGP—000—SCW—15.01—0009—00</div>						
<div>DRAWING TITLE:</div> <div>STANDARD DETAIL OF VALVE PIT</div>	<table><tr><td>REV.</td><td>SCALE</td><td>SHEET</td></tr><tr><td>01</td><td>AS SHOWN</td><td>9 OF 18</td></tr></table>	REV.	SCALE	SHEET	01	AS SHOWN	9 OF 18
REV.	SCALE	SHEET					
01	AS SHOWN	9 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

	Wang Zhigang	Wen Anshun	Li Zhiguang	Zhang WH		
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
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A	Internal Discipline Check	Wang ZQ	Wen Anshun	Li Zhiguang	Zhang WH	01/04/2016
REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE

OIL&GAS DEVELOPMENT COMPANY LTD.
OGDCL HOUSE TOWER-B, FIRST FLOOR F-6/68, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
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CONTRACTOR:	PROJECT NO.
HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED	NASHPA 1247

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

DRAWING TITLE:	REV.	SCALE	SHEET
STANDARD DETAIL OF VALVE PIT	01	AS SHOWN	10 OF 18

10 Drawing Size: ISO A1 (V)

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. MINIMUM CYLINDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
- STRUCTURAL CONCRETE : $F_c' = 28\text{MPa}$
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3. YIELD STRENGTH OF REINFORCEMENT BAR
- $F_y = 420\text{MPa}$, ASTM A615, DENOTED WITH "T"
4. INSIDE AND TOP SURFACE OF THE BASIN SHALL BE TROWELLED WITH 20mm WATER PROOFING CEMENT MORTAR.
5. FOR CONCRETE PROTECTION AND REINFORCEMENT DETAILS REFER DWG NO. NGP-000-SCW-15.01-0005-00.
6. FOR GENERAL NOTES FOR CIVIL WORKS REFER TO DWG NO. NGP-000-SCW-15.01-0001-00.
7. CASING PIPE REFER TO PIPE SLEEVE THRU WALL DETAIL IN DWG NO. NGP-008-PIP-15.01-0003-00.
8. 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.
9. PITS IN THIS SHEET ARE ONLY FOR PRODUCED WATER SYSTEM.

LEGEND

REFERENCE DOCUMENTS

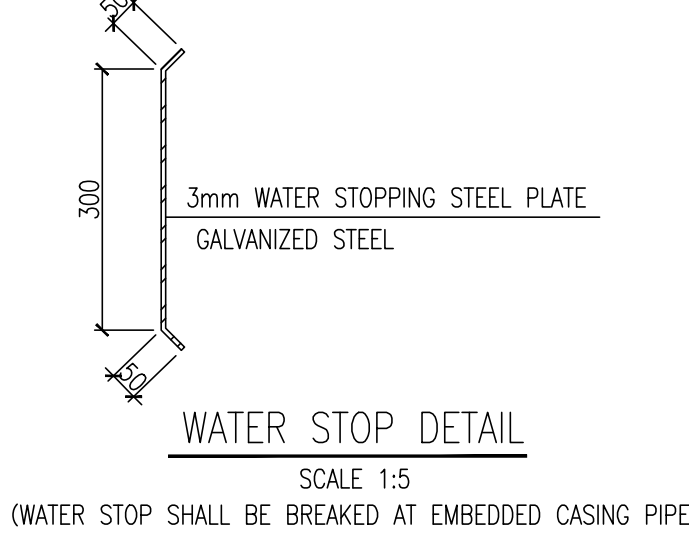
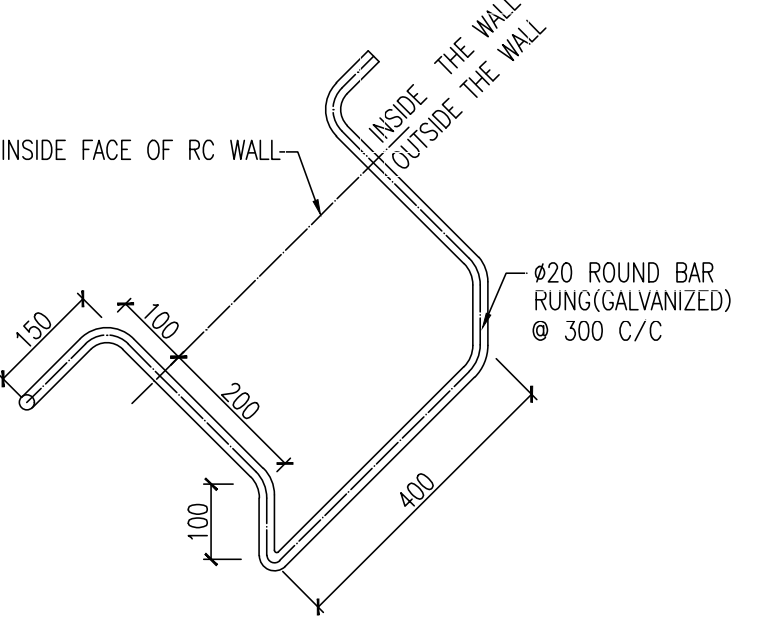
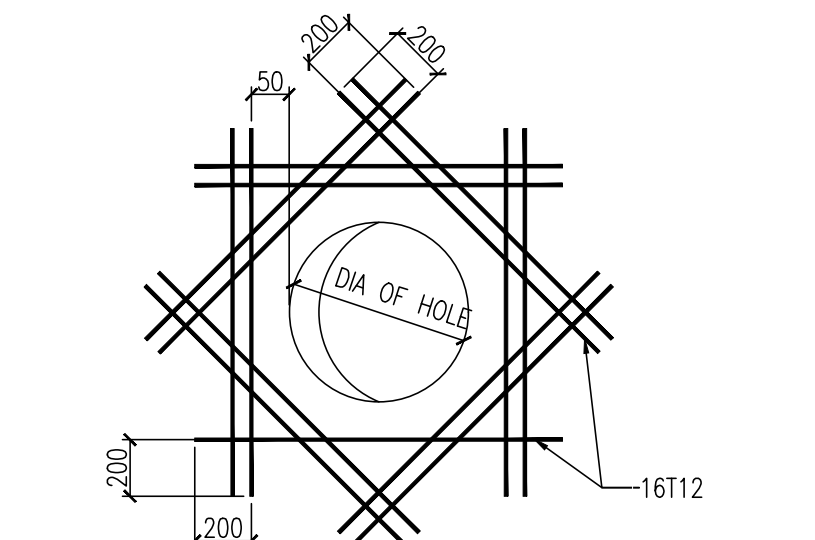
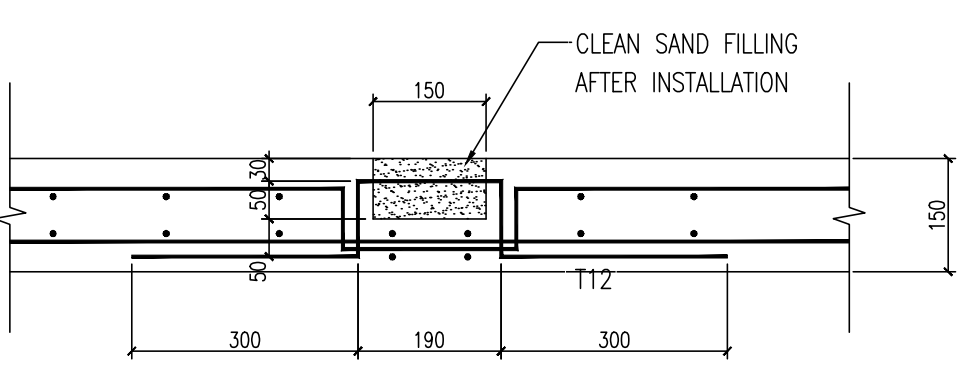
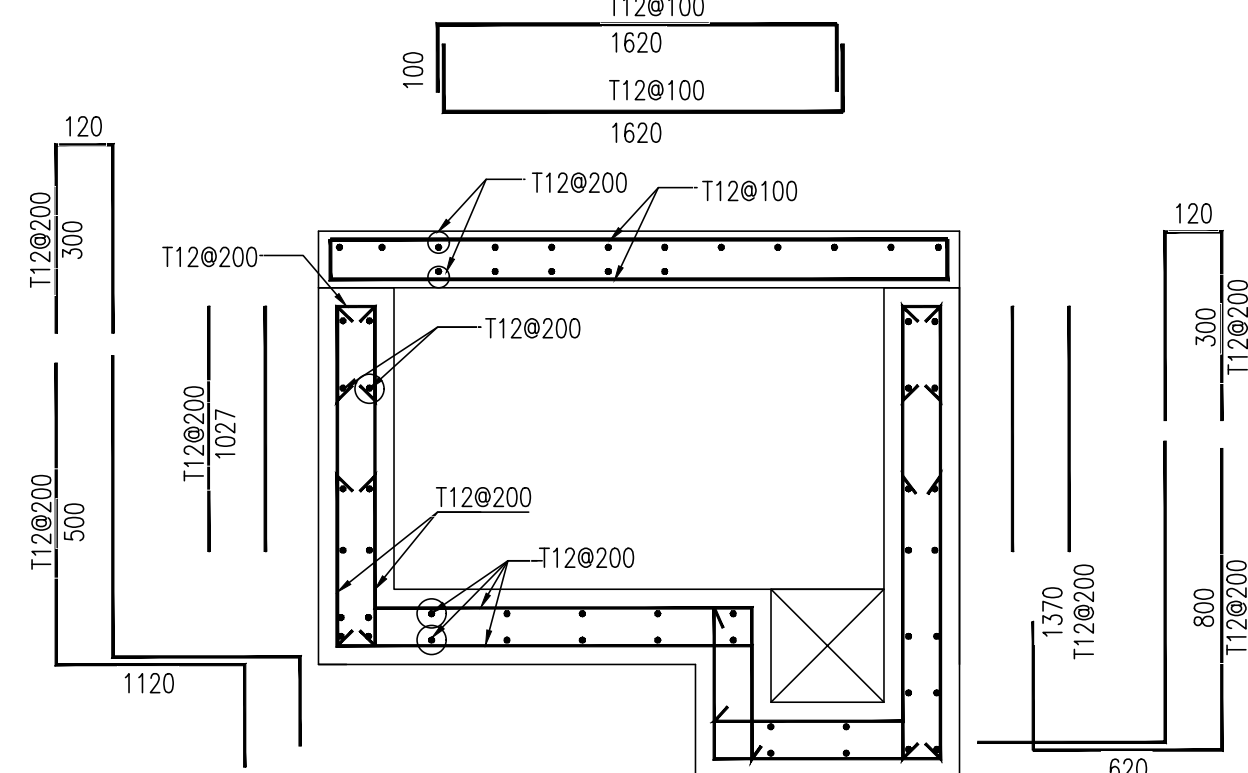
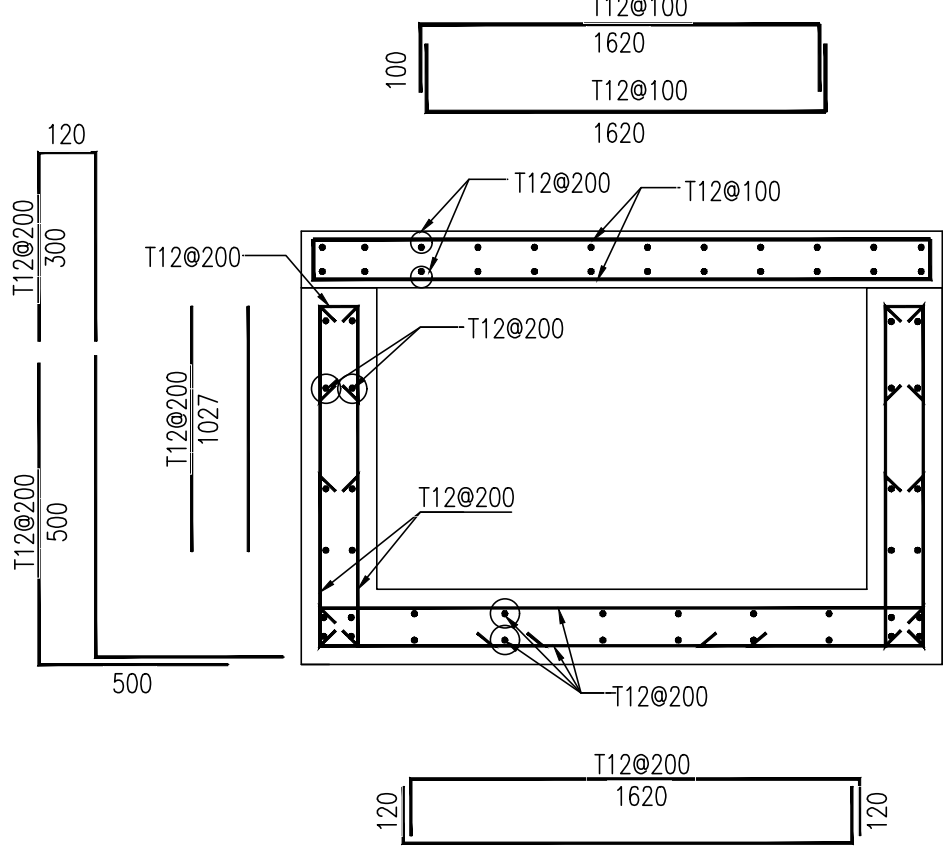
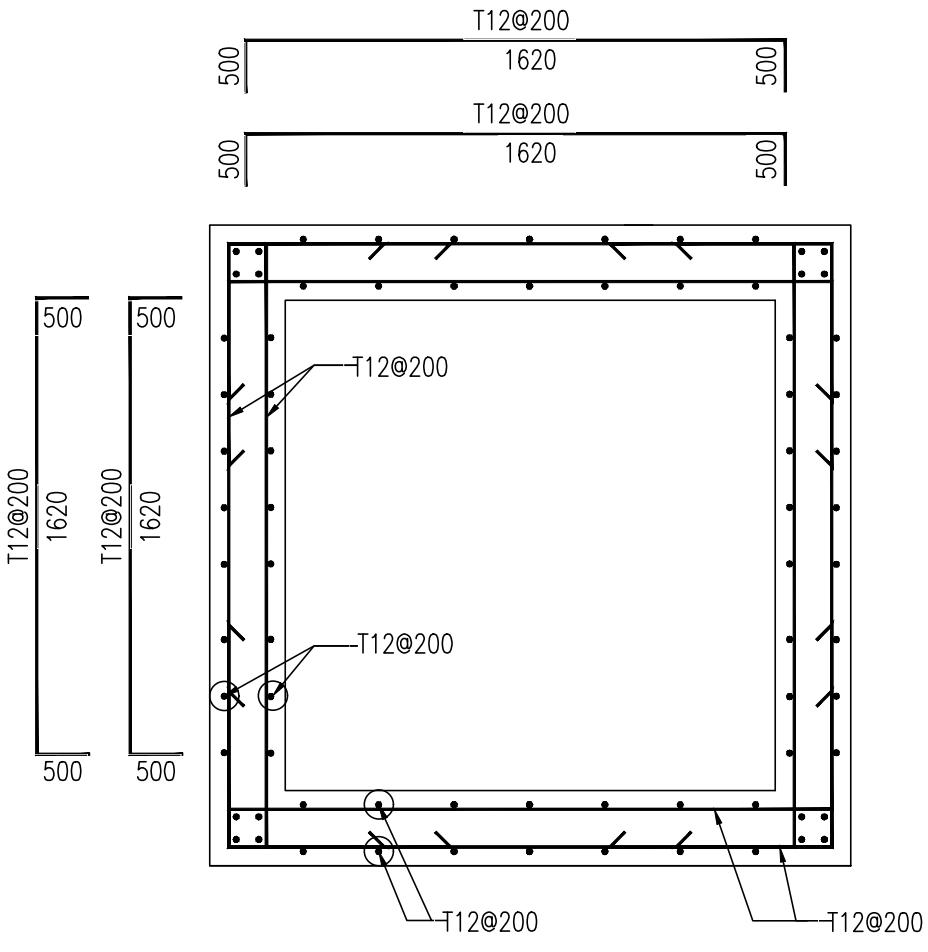
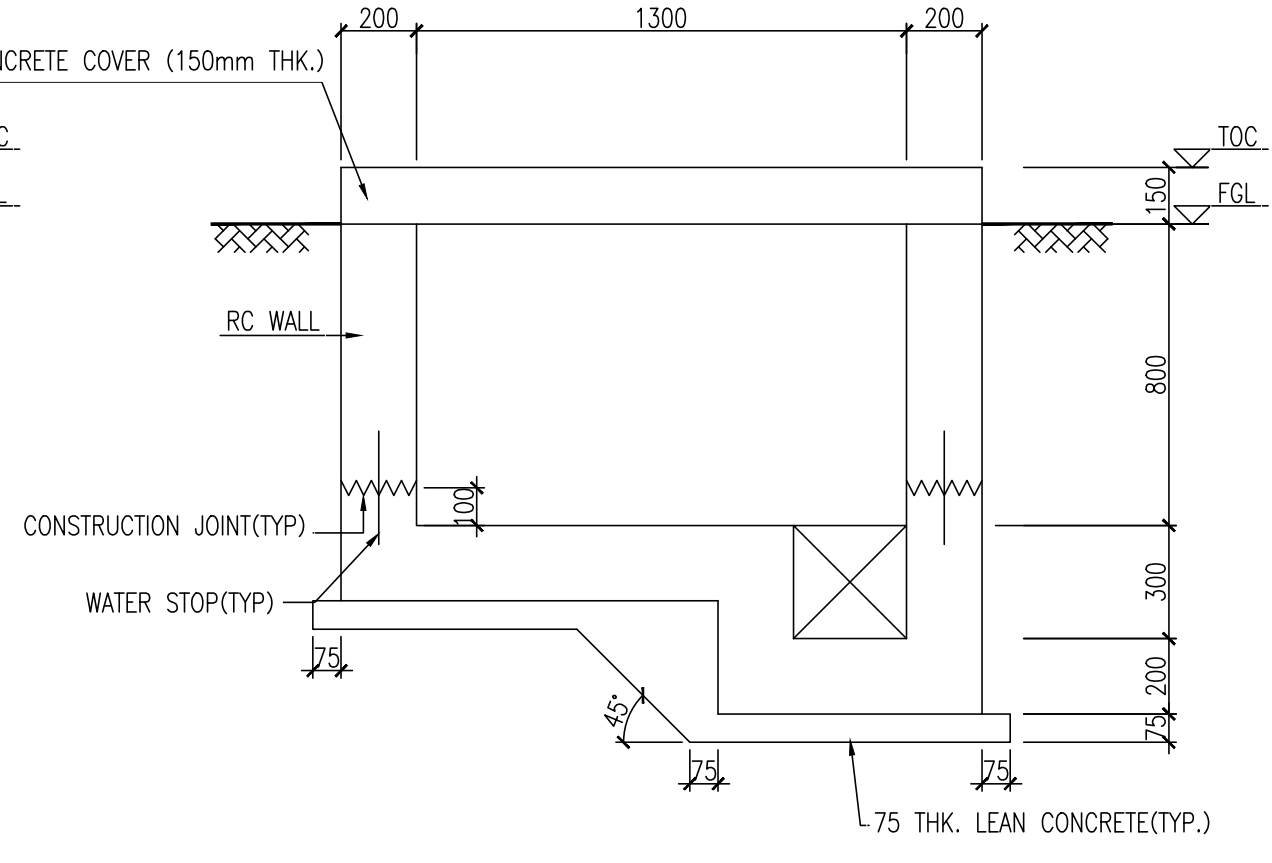
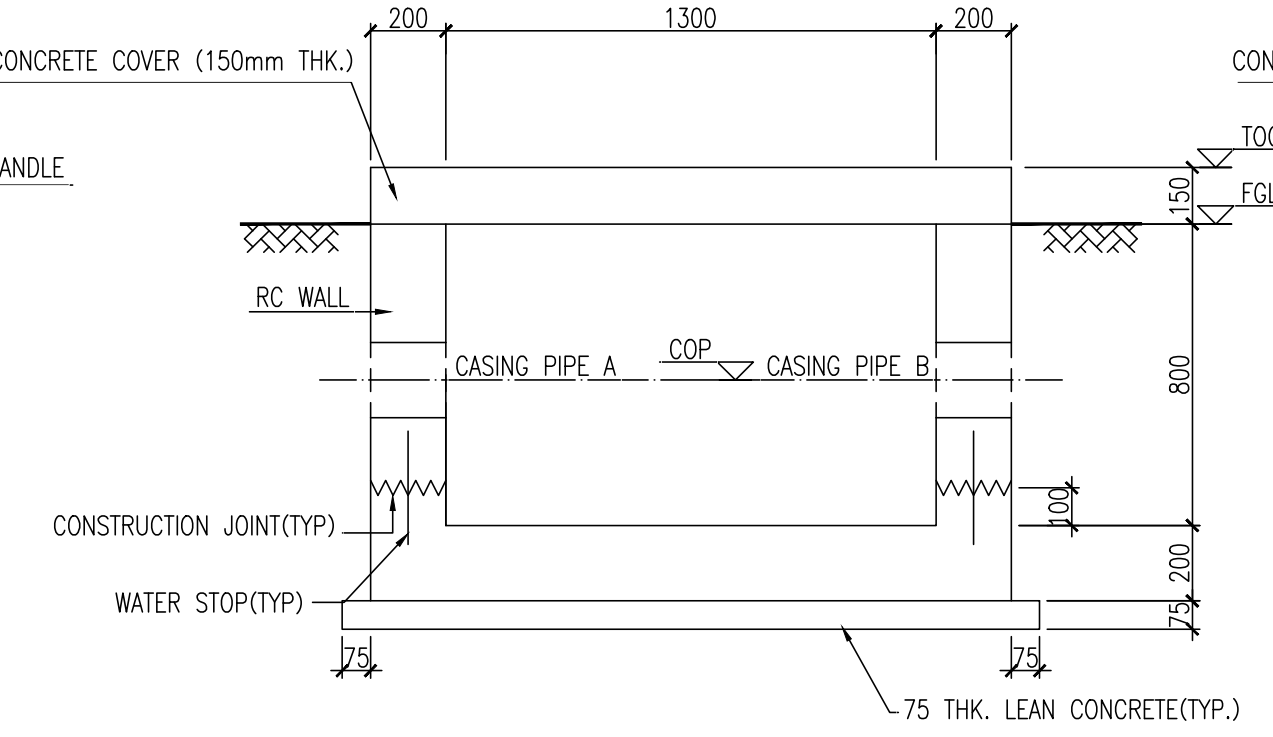
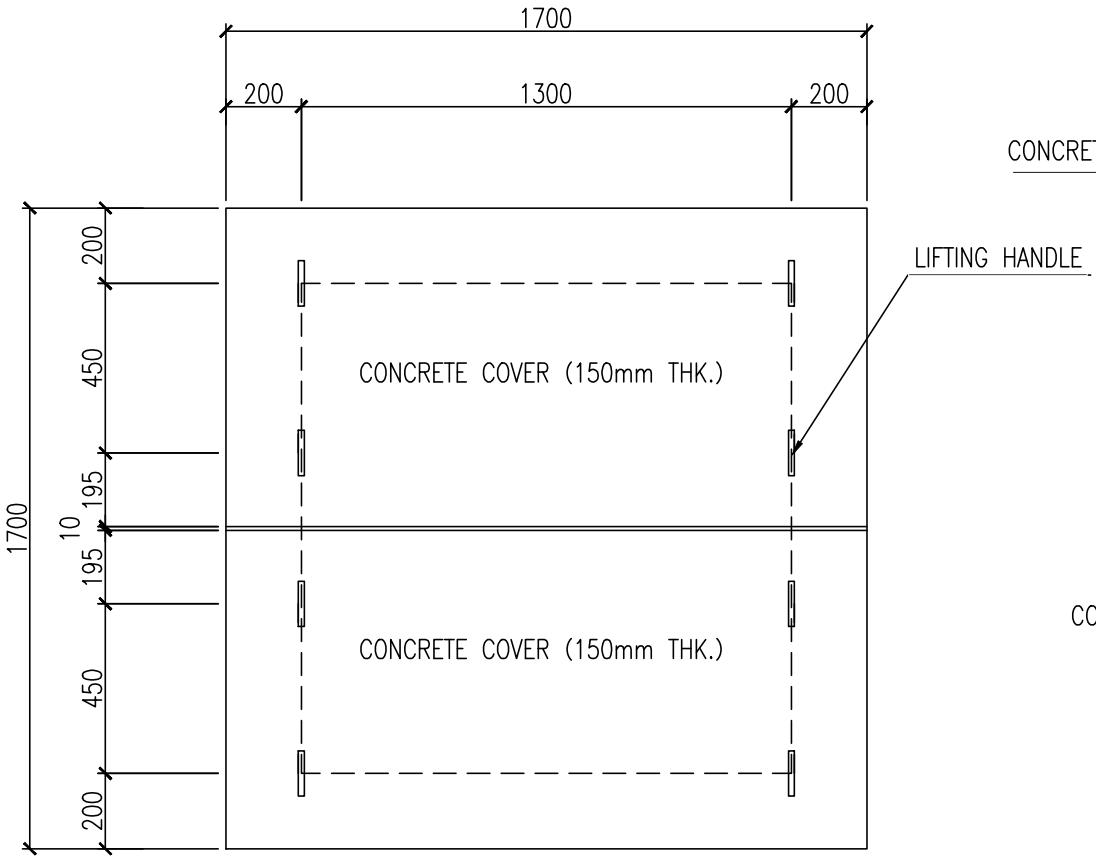
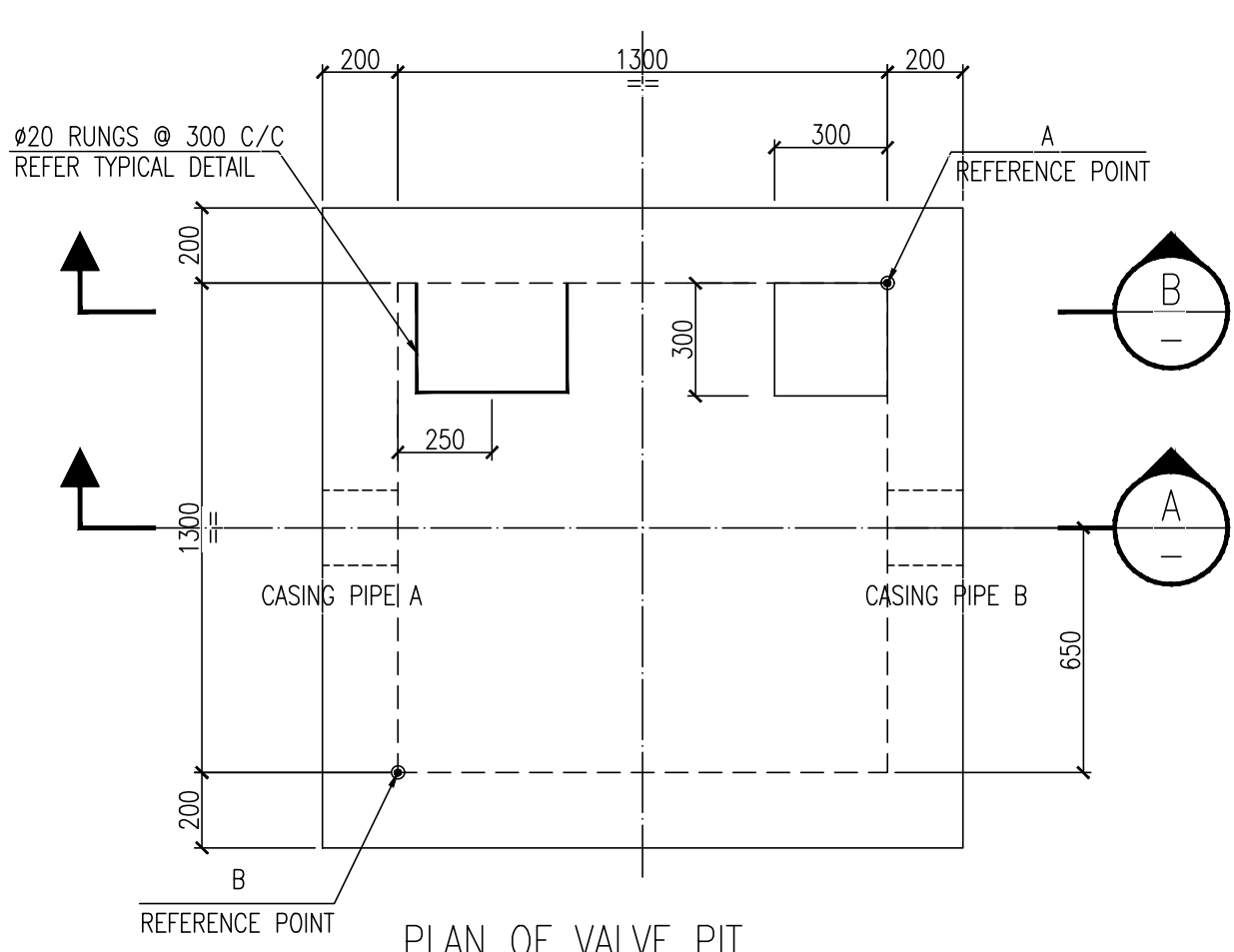
TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00
STANDARD DRAWING FOR R.C.C. WORKS	NGP-000-SCW-15.01-0005-00
STANDARD DRAWING FOR PIPE CONNECTION	NGP-000-SCW-15.01-0059-00
KEY PLAN FOR WATER TREATMENT AREA	NGP-008-PIP-15.01-0002-00

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
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CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**
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FAX: +92-051-2623053, PHONE: +92-051-5208959

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
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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 11 OF 18



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