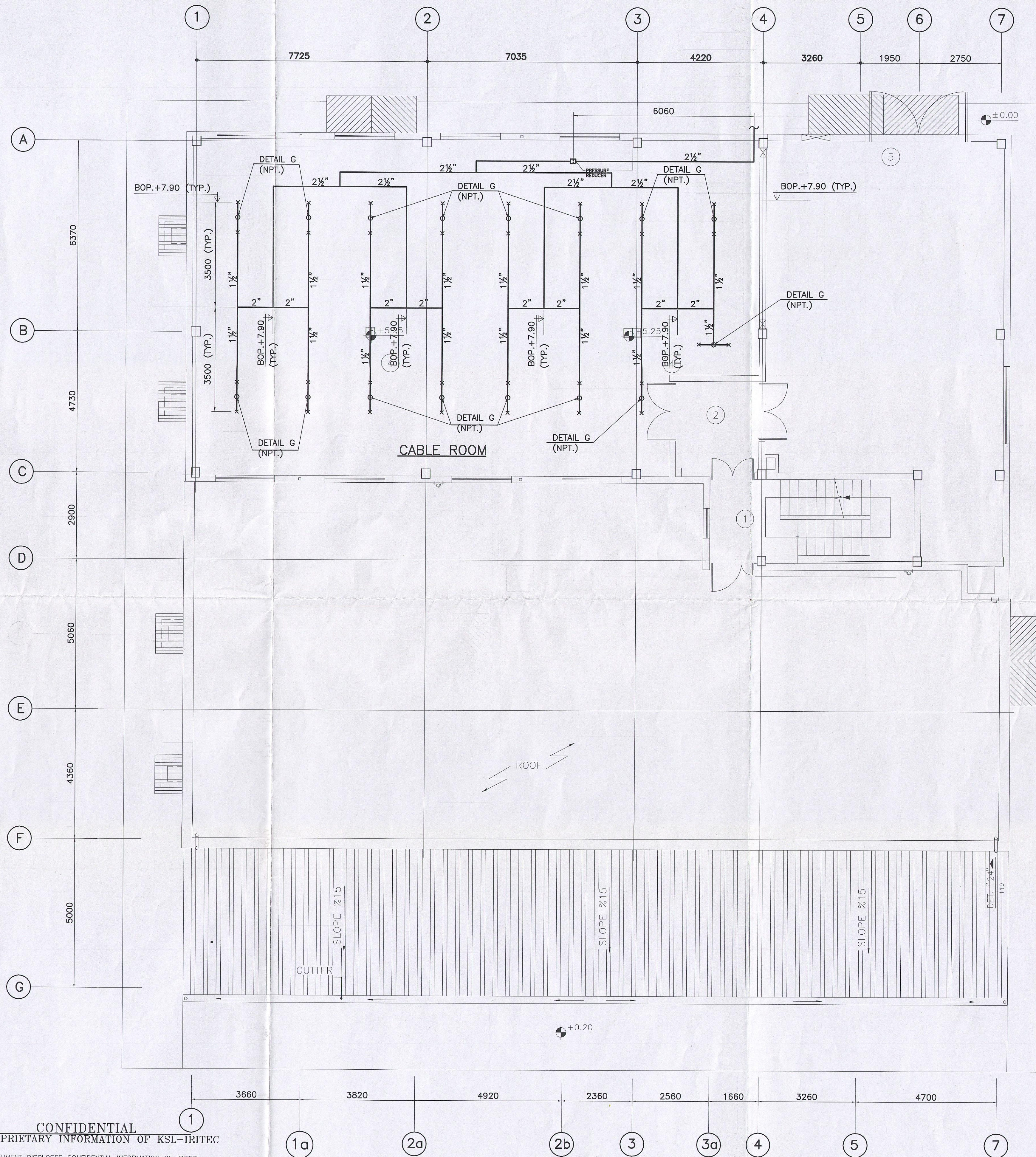
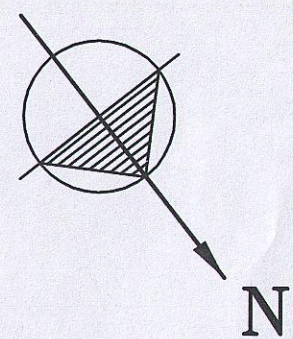
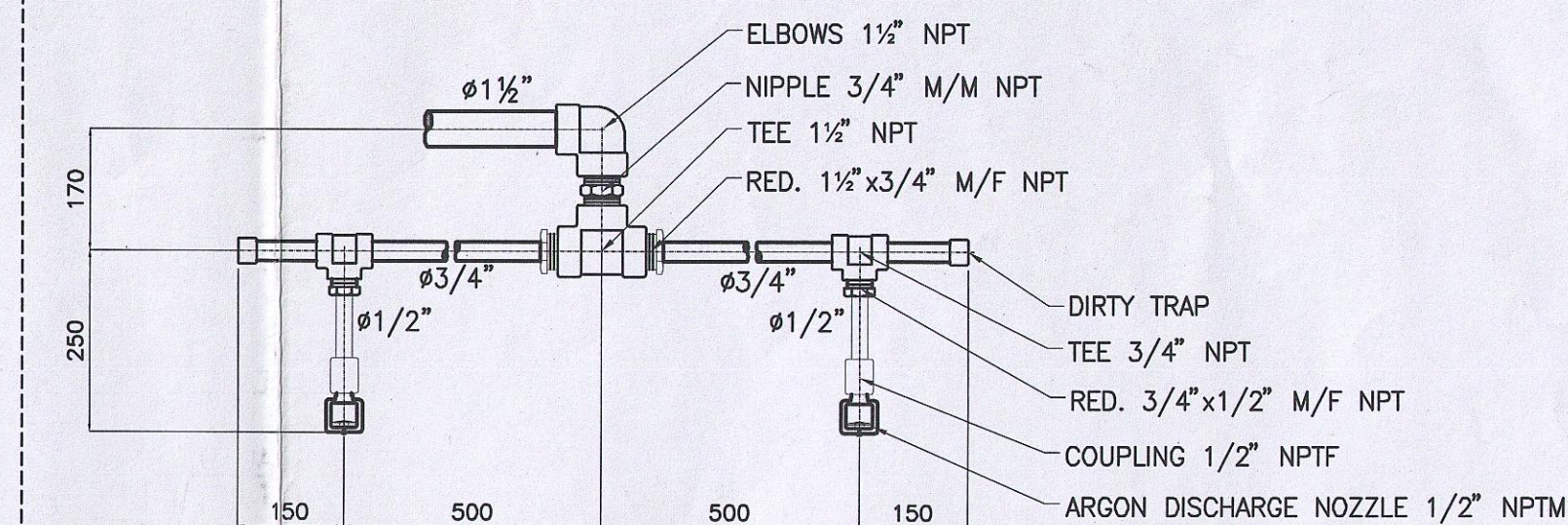




ARGON DISCHARGE NOZZLE



DETAIL G
N.T.S.

LEGEND	
SYMBOL	DESCRIPTION
x	ARGON NOZZLE

پروژه: 138-901177
تاریخ: ۱۳۹۰/۰۶/۰۱

COMMENTED
REFERENCE: IGS BAR IRT 1304
DATE: ۱۳۹۰/۰۷/۱۸
SIGN:

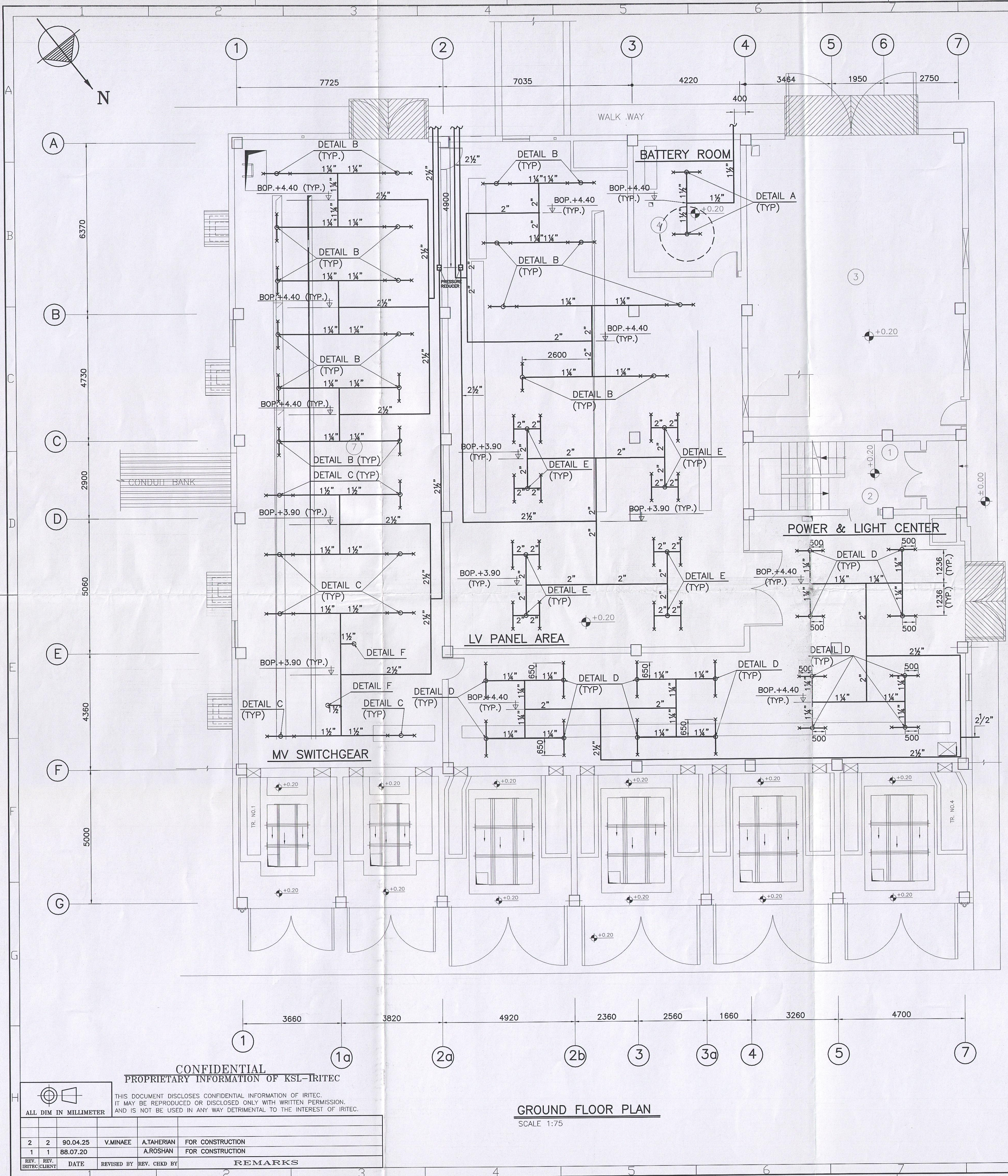
FOR CONSTRUCTION

SIGNATURE _____ DATE _____

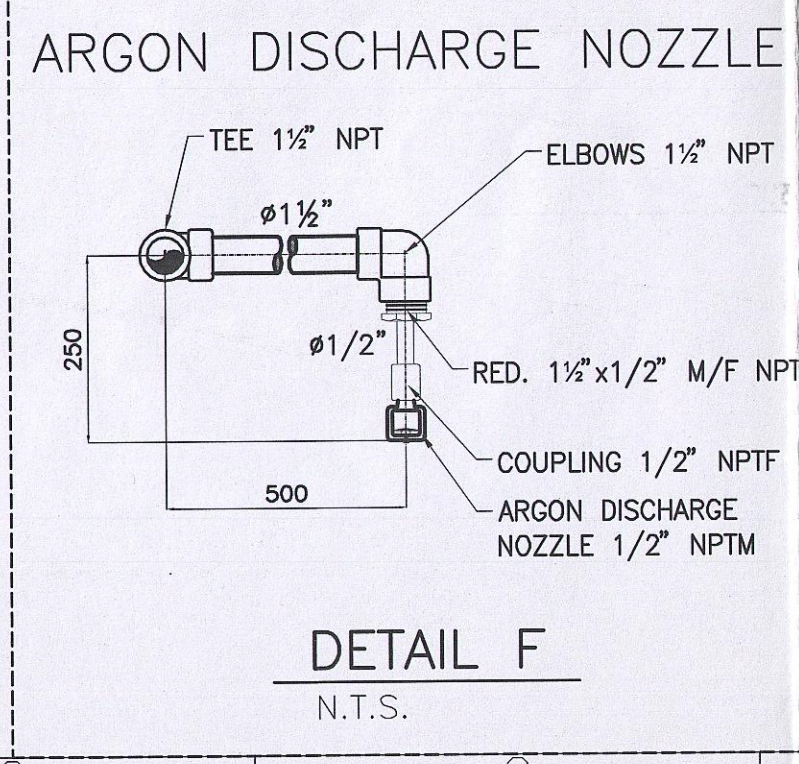
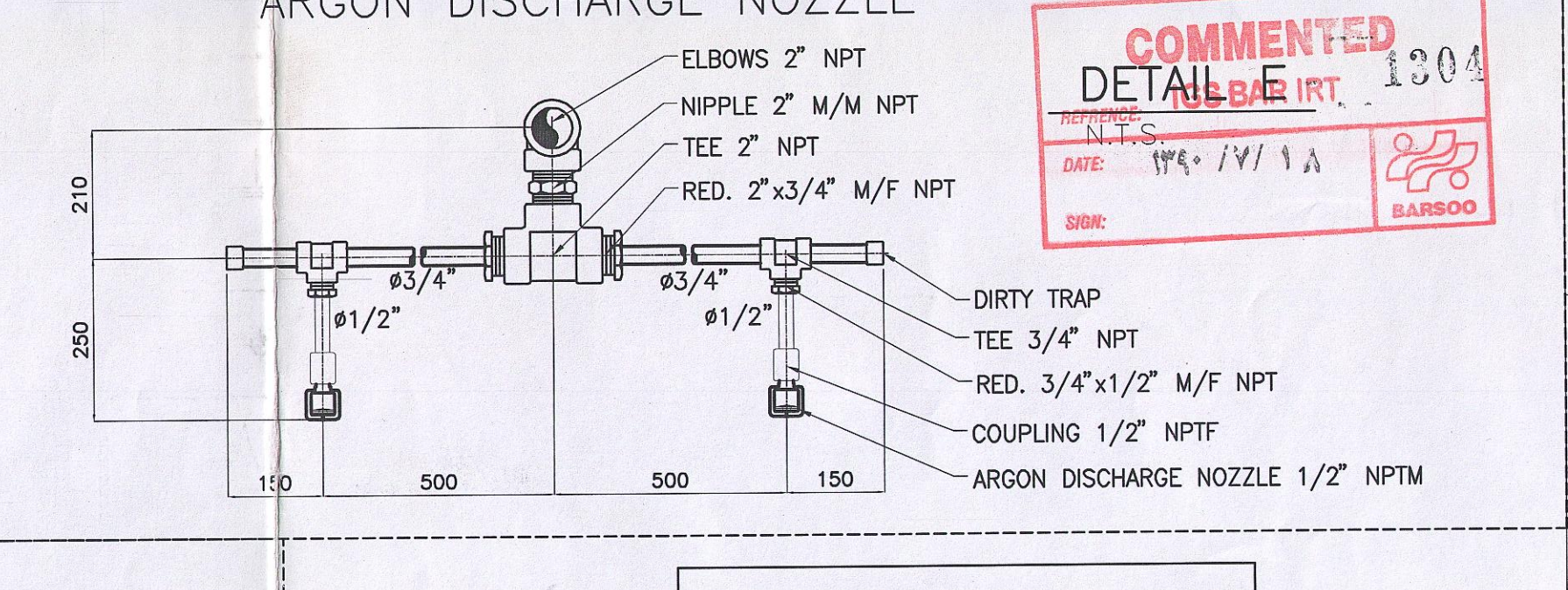
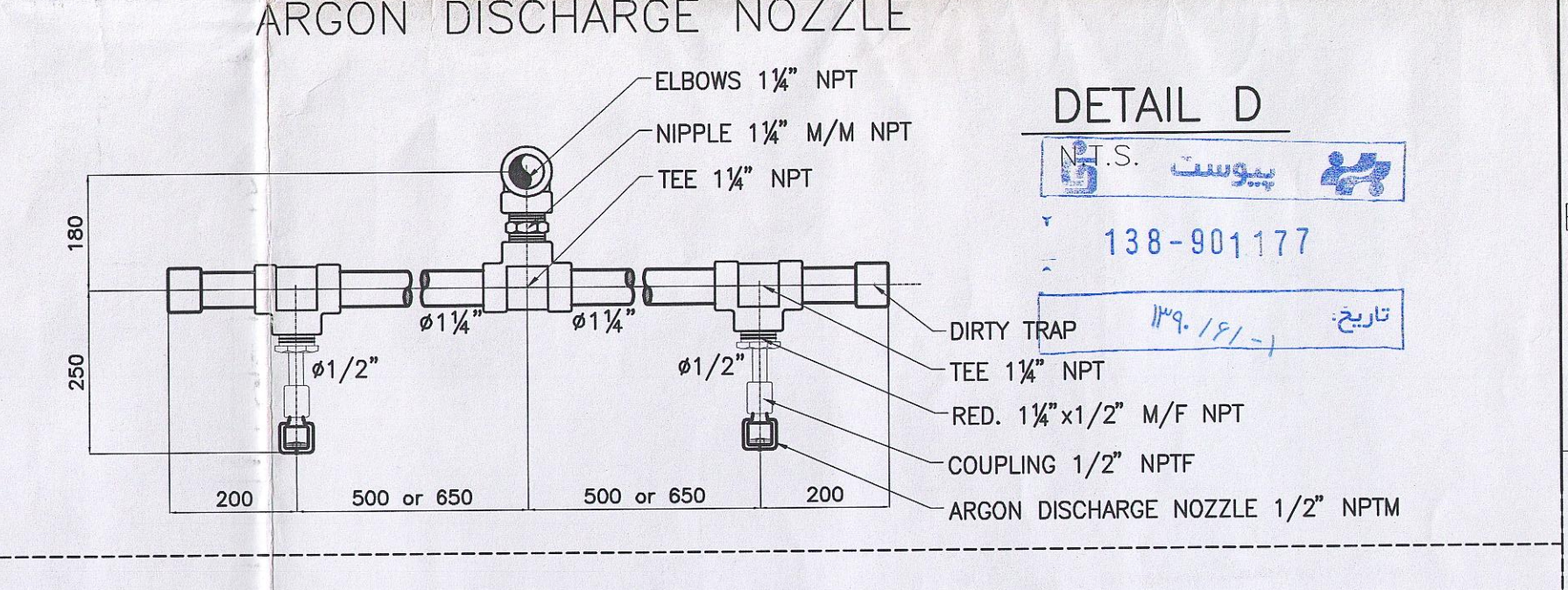
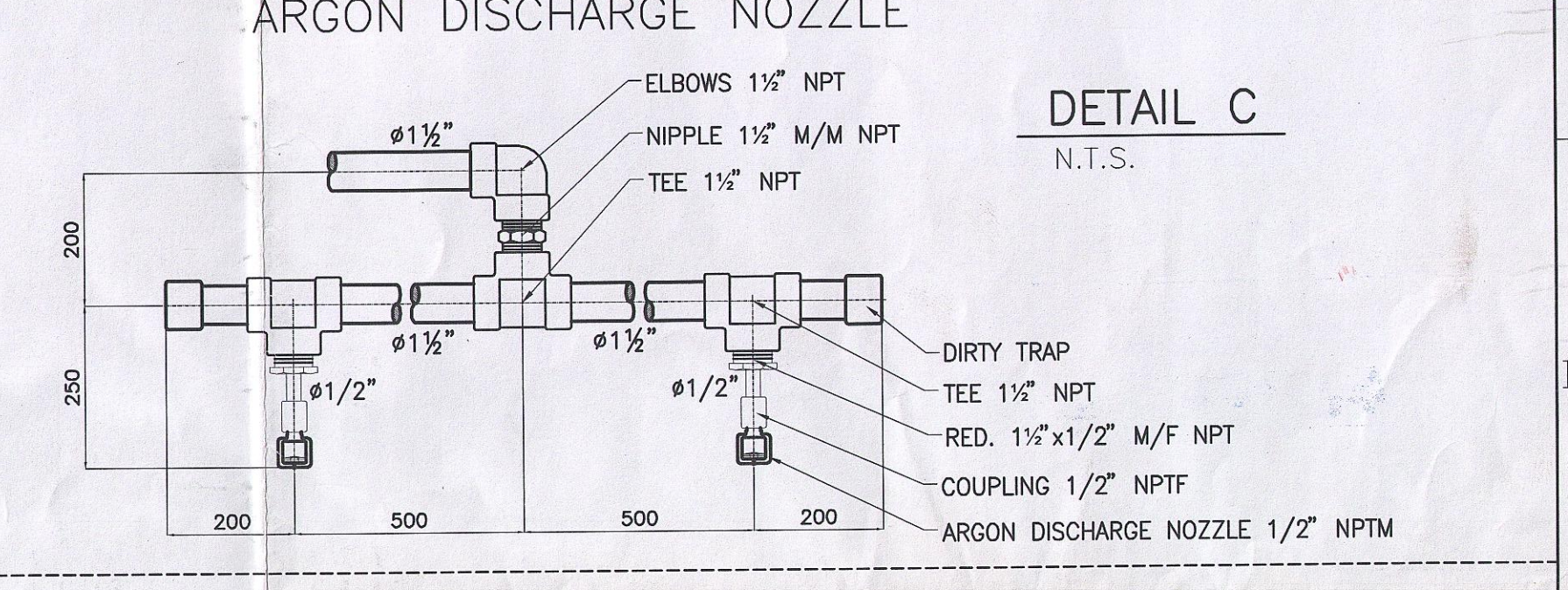
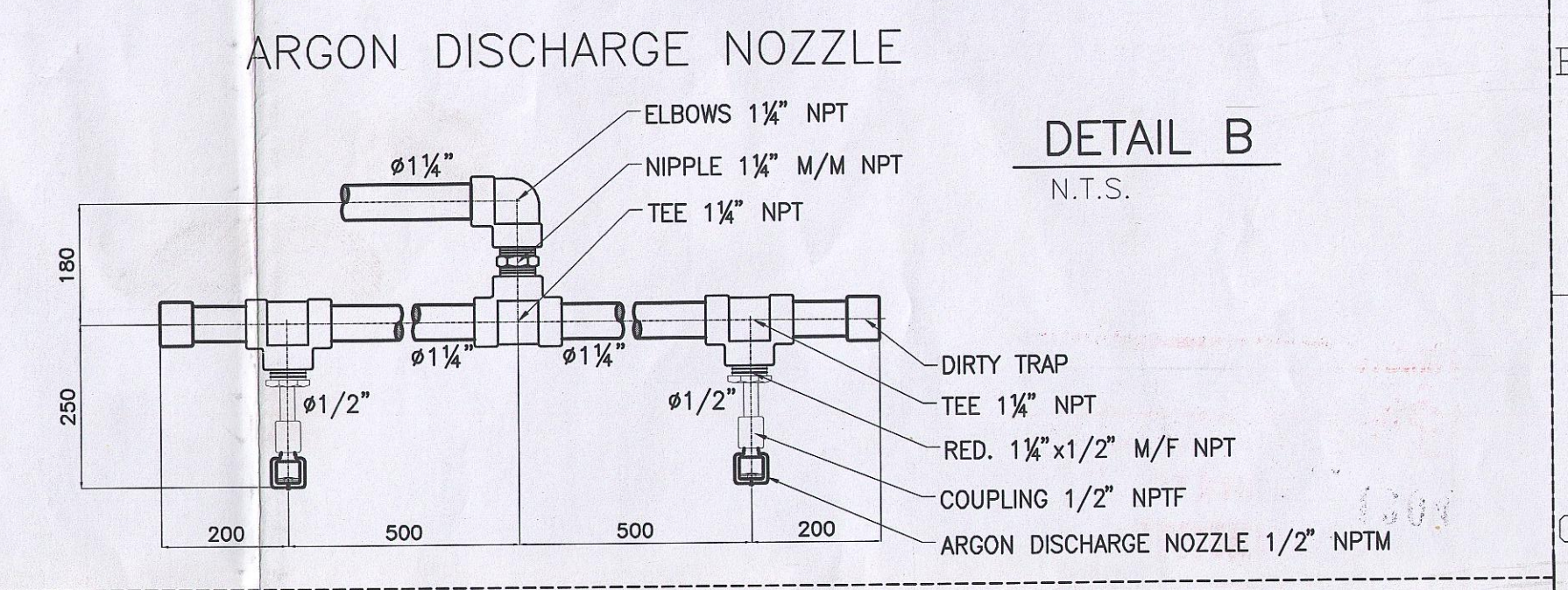
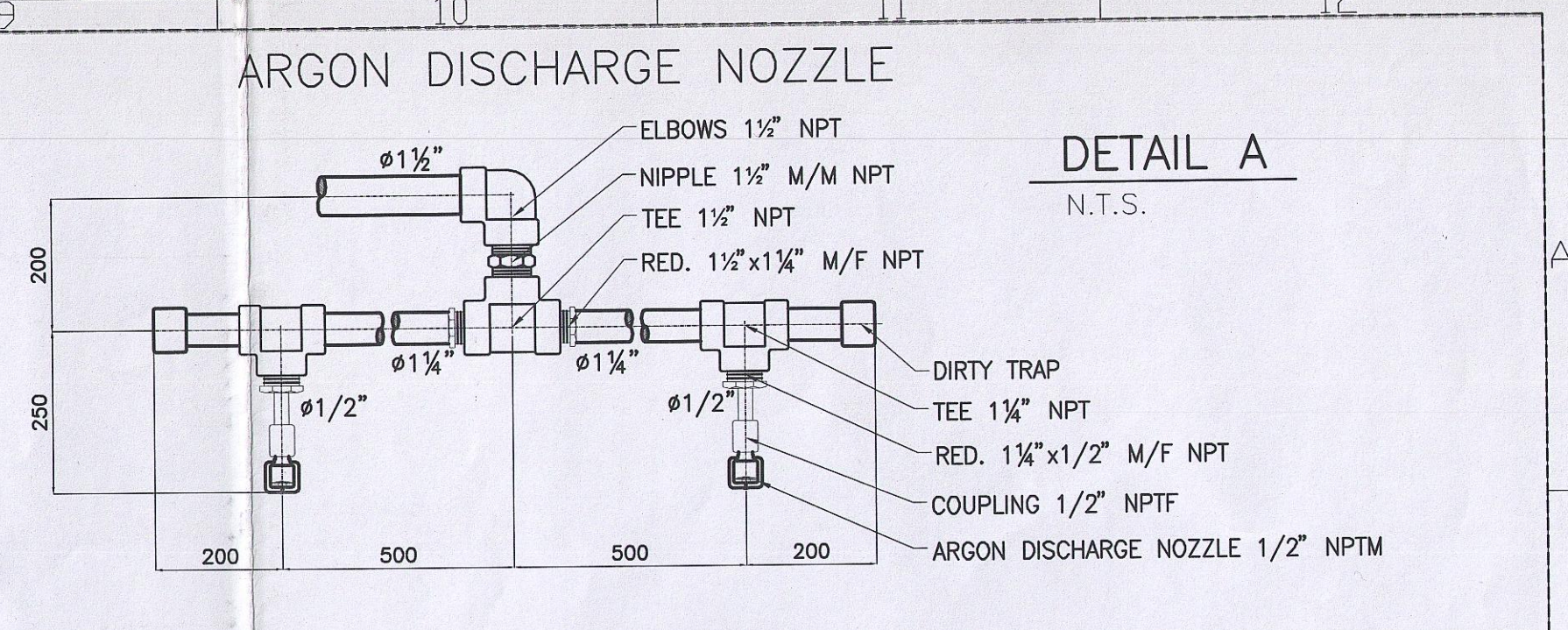
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REV.	REV.	DATE	REVISED BY	REV. CHKD BY	REMARKS
2	2	90.04.25	V.MINAE	A.TAHERIAN	FOR CONSTRUCTION
1	1	88.07.20		A.ROSHAN	FOR CONSTRUCTION

FIRST FLOOR PLAN
SCALE 1:75

شرکت آهن و فولاد غدیر ایرانیان					
PROJECT TITLE : GHADIR DIRECT REDUCTION PLANT			CLIENT DRAWING No. 3201 XSU01007		
DRAWING TITLE : MAIN CONTROL HOUSE FIRST FLOOR IG-01 FIRE FIGHTING SYSTEM PIPING PLAN			REV. 2		
DESIGNED SANCO		DATE 89/09/01		SCALE 1:75	
DRAWN M.ZAMANIAN		DATE 89/09/01		PROJECT REF. NO.	
CHECKED M.TAHERIAN		DATE 89/09/02			
APPROVED A.ROSHAN		DATE 89/09/02			



LEGEND	
SYMBOL	DESCRIPTION
x	ARGON NOZZLE



FOR CONSTRUCTION

SIGNATURE _____ DATE _____

شركة گهن و فولاد غدیر ایرانیان

PROJECT TITLE : GHADIR DIRECT REDUCTION PLANT

DRAWING TITLE : MAIN CONTROL HOUSE GROUND FLOOR IG-01 FIRE FIGHTING SYSTEM PIPING PLAN

CLIENT DRAWING No. 3201 XSU01008

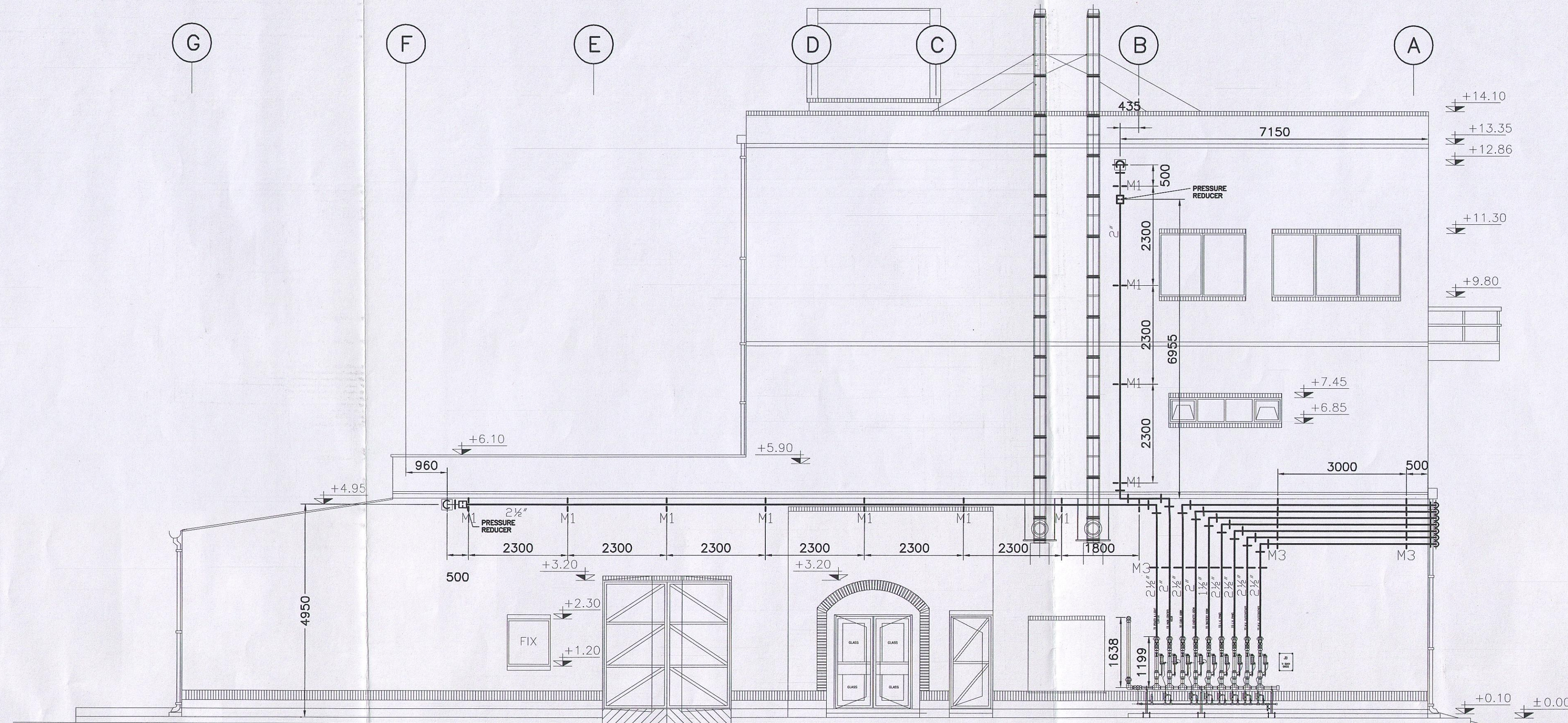
REV 2

REV	DATE	BY	CHKD	REMARKS
1	88.07.20	V.MINAE	A.TAHERIAN	FOR CONSTRUCTION
2	90.04.25	V.MINAE	A.TAHERIAN	FOR CONSTRUCTION

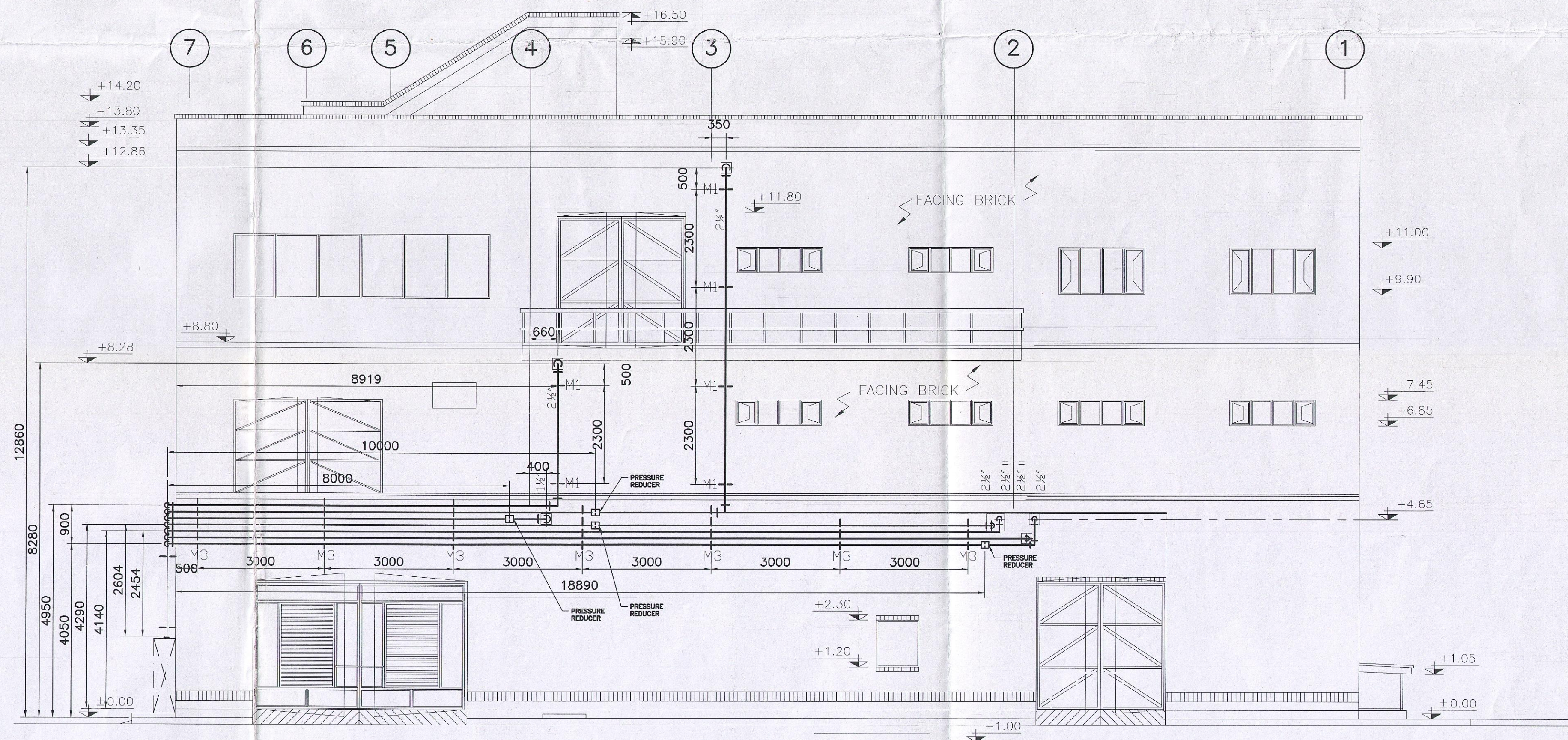
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REV.	REV.	DATE	REVISED BY	CHKD BY
2	2	90.04.25	V.MINAE	A.TAHERIAN
1	1	88.07.20	A.ROSHAN	A.ROSHAN
REMARKS				

GROUND FLOOR PLAN

SCALE: 1:75



WEST SIDE
SC. 1:75

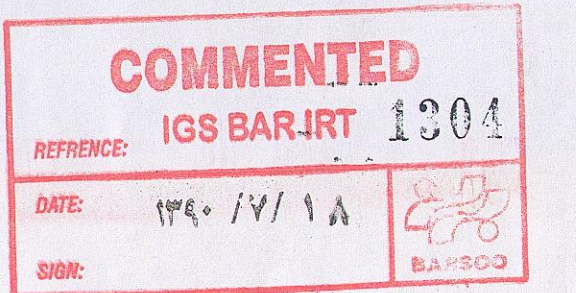


NORTH SIDE
SC. 1:75



138-901177

تاریخ: ۱۳۹۰/۶/۱۸



FOR CONSTRUCTION

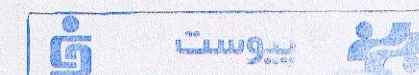
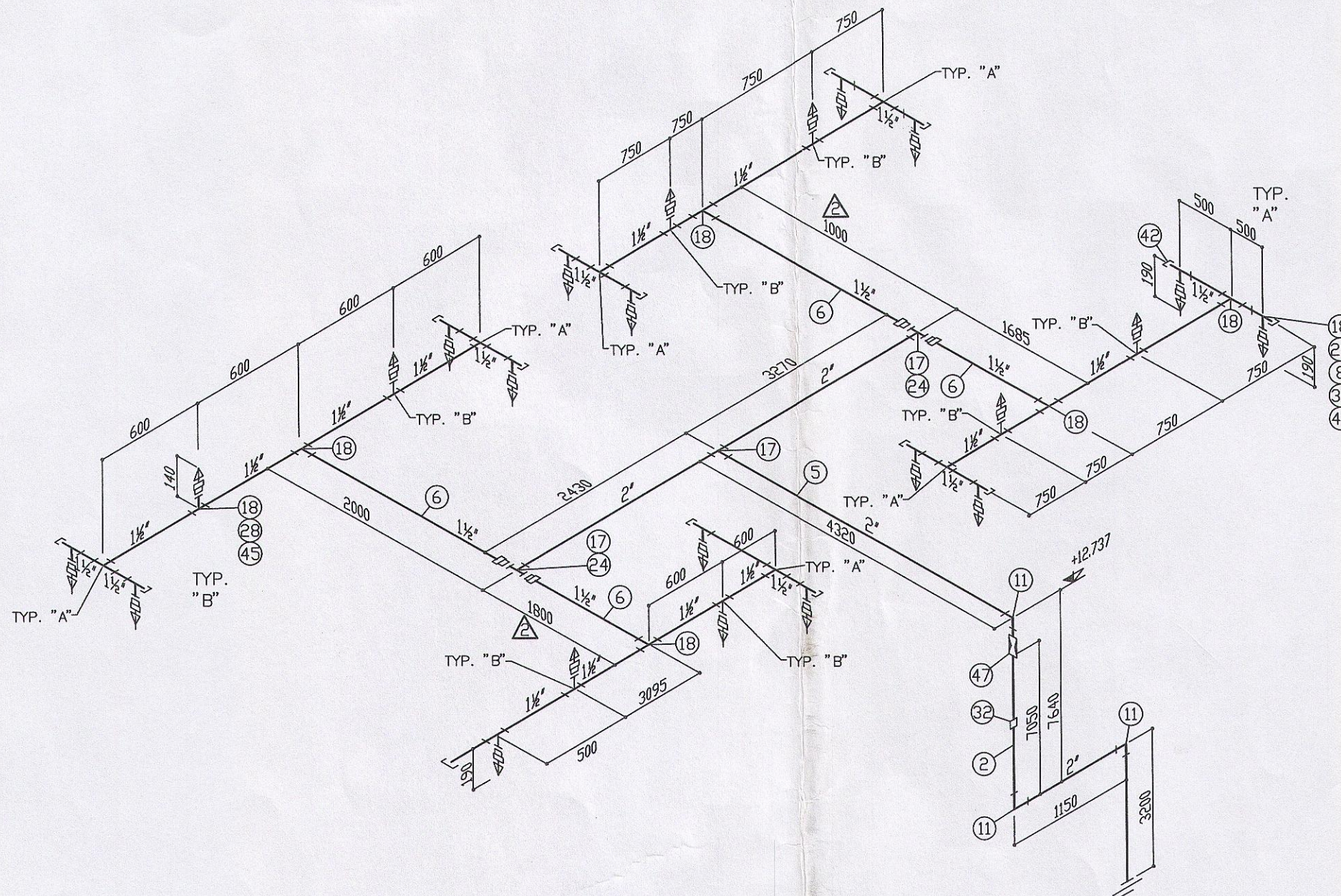
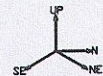
SIGNATURE _____ DATE _____

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REV.	REV.	DATE	REVISED BY	REV. CHKD BY	REMARKS
2	2	90.04.25	V.MINAEI	A.TAHERIAN	FOR CONSTRUCTION
1	1	88.07.20	A.ROSHAN		FOR CONSTRUCTION

		شرکت آهن و فولاد غدیر ایرانیان	
PROJECT TITLE :		CLIENT DRAWING No.	
GHADIR DIRECT REDUCTION PLANT		3201 XSU01010	
DRAWING TITLE :		MAIN CONTROL HOUSE	
IG-01 FIRE FIGHTING SYSTEM PIPING SECTIONS			
DESIGNED	SANCO	DATE	89/09/01
DRAWN	M.ZAMANIAN	DATE	89/09/01
CHECKED	M.TAHERIAN	DATE	89/09/02
APPROVED	A.ROSHAN	DATE	89/09/02
IRITEC DRAWING No.		REV	
320110,ME,33,SU,022		2	



138-901185

تاریخ: ۱۳۹۰/۶/۲۷

COMMENTED

REFERENCE: IGS BAR IRT 1303

DATE: ۱۳۹۰/۷/۱۸

SIGN:



NOTE:
WORK THIS DRAWING WITH DWG NO. 3201 XSU01009

TYPICAL DIRTY TRAP

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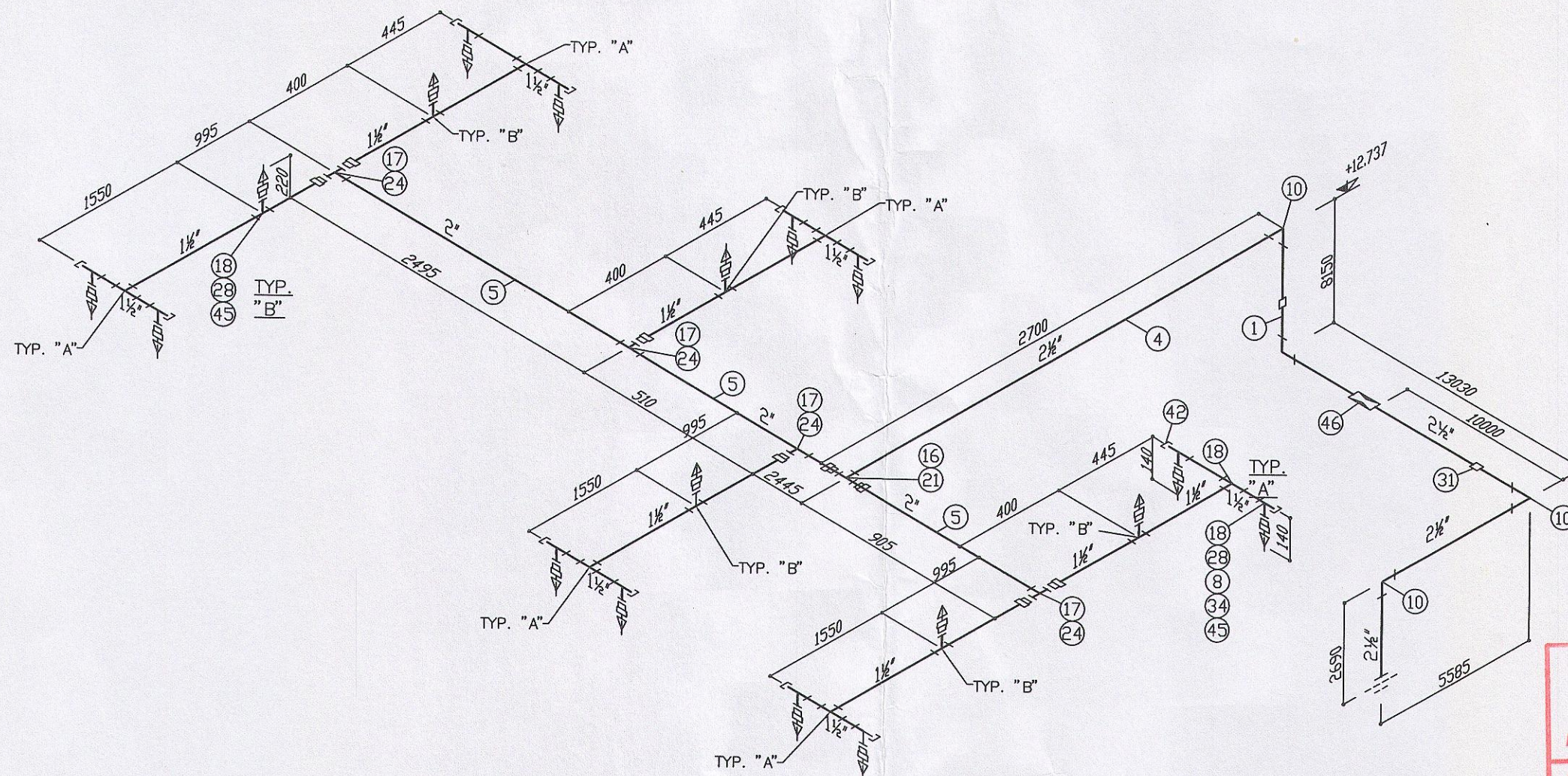
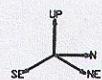
ALL DIM IN MILLIMETER

REV.	REV.	DATE	REVISED BY	REV. CHD BY	REMARKS

FOR CONSTRUCTION

SIGNATURE _____ DATE _____

		شرکت آهن و فولاد غدیر ایرانیان				
PROJECT TITLE : GHADIR DIRECT REDUCTION PLANT		CLIENT DRAWING No. 3201 XSU01011				
DRAWING TITLE : MAIN CONTROL HOUSE SECOND FLOOR — MAIN CONTROL ROOM ISOMETRIC DRAWING FOR IG01 SYSTEM PIPING						
		SIGNATURE		DATE	SCALE	SIZE
DESIGNED		SANCO		90.04.11	—	A1
DRAWN		R.FATTAHI		90.04.11	PROJECT REF. NO.	
CHECKED		A.TAHERIAN		90.04.12		
APPROVED		A.ROSHAN		90.04.13		
IRITEC DRAWING No.		REV				
320110,ME,33,SU,023		1				



پست
138-901185
تاریخ: ۱۳۹۰/۶/۲۷

COMMENTED
REFERENCE: IGS BAR IRT 1303
DATE: ۱۳۹۰/۷/۱۸
SIGN:
NOTE: WORK THIS DRAWING WITH DWG NO. 3201 XSU01009



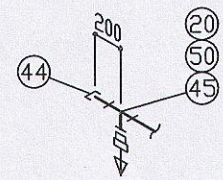
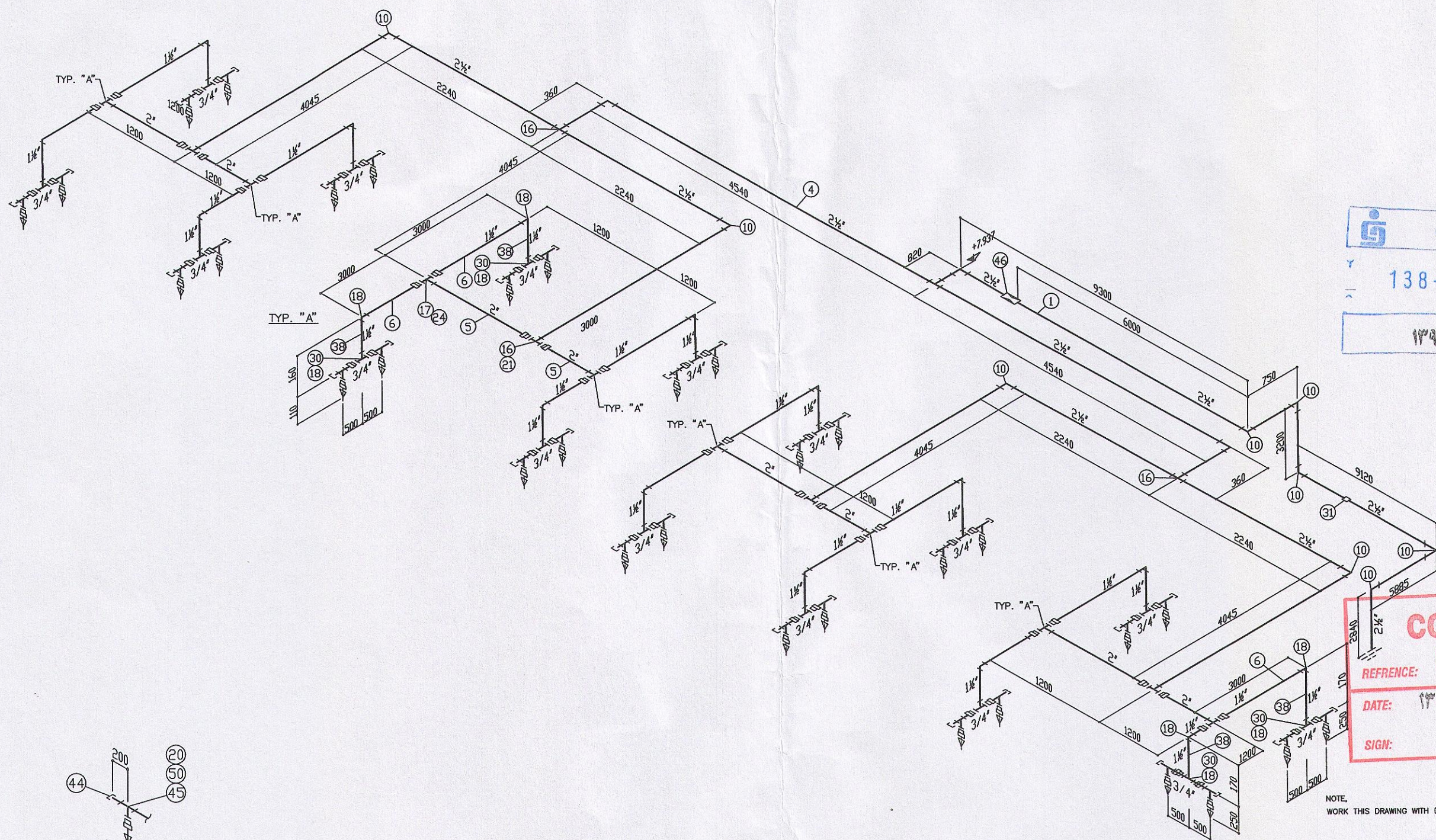
TYPICAL DIRTY TRAP

FOR CONSTRUCTION

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REV.	DATE
1	
2	
3	
4	
5	
6	
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8	
9	
10	
11	
12	

شرکت آهن و فولاد غدیر ایرانیان	
PROJECT TITLE : GHADIR DIRECT REDUCTION PLANT	CLIENT DRAWING No. 3201 XSU01012
DRAWING TITLE : MAIN CONTROL HOUSE SECOND FLOOR - CABINET ROOM ISOMETRIC DRAWING FOR IG01 SYSTEM PIPING	REV 1
IRITEC	DESIGNED SANCO 90.04.11
IRITEC	DRAWN R.FATTAHI 90.04.11
IRITEC	CHECKED A.TAHERIAN 90.04.12
IRITEC	APPROVED A.ROSHAN 90.04.13
IRITEC DRAWING No. 320110,ME,33,SU,024	1



TYPICAL DIRTY TRAP

پارس پارس
138-901185
تاریخ: ۱۳۹۰/۶/۲۷

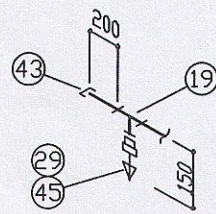
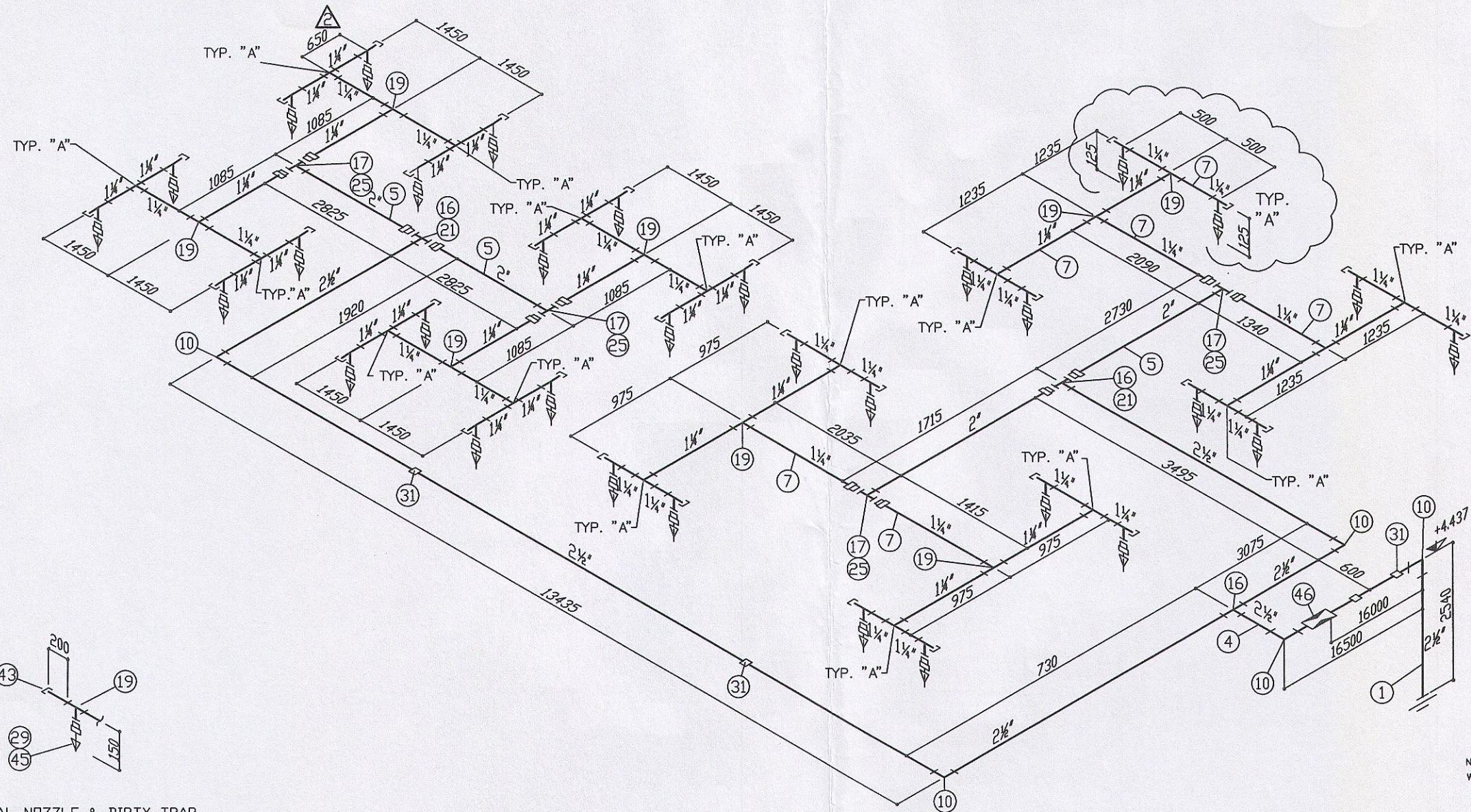
COMMENTED
REFERENCE: IGS BAR IRT 1303
DATE: ۱۳۹۰/۷/۱۸
SIGN: 
BARSOO

NOTE:
WORK THIS DRAWING WITH DWG NO. 3201 XSU01007

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REV.	REV.	DATE	REVISED BY	REV. CHECK BY
REMARKS				

 شرکت آهن و فولاد غدیر ایرانیان					
PROJECT TITLE :		CLIENT DRAWING No.		REV	
GHADIR DIRECT REDUCTION PLANT		3201 XSU01013		1	
DRAWING TITLE : MAIN CONTROL HOUSE FIRST FLOOR – CABLE ROOM ISOMETRIC DRAWING FOR IG01 SYSTEM PIPING					
 شرکت مهندسی ایرانیان		SIGNATURE DATE SCALE SIZE			
DESIGNED		SANCO		90.04.11	A1
DRAWN		R.FATTAHI		90.04.11	PROJECT REF. NO.
CHECKED		A.TAHERIAN		90.04.12	
APPROVED		A.ROSHAN		90.04.13	
IRITEC DRAWING No. 320110,ME,33,SU,025					



TYPICAL NOZZLE & DIRTY TRAP

پست
138-901185
تاریخ: ۱۳۹۰/۶/۲۷

COMMENTED
REFERENCE: IGS BAR IRT 1303
DATE: ۱۳۹۰/۷/۱۸
SIGN: 
BARSOO

NOTE,
WORK THIS DRAWING WITH DWG NO, 3201 XSU01008

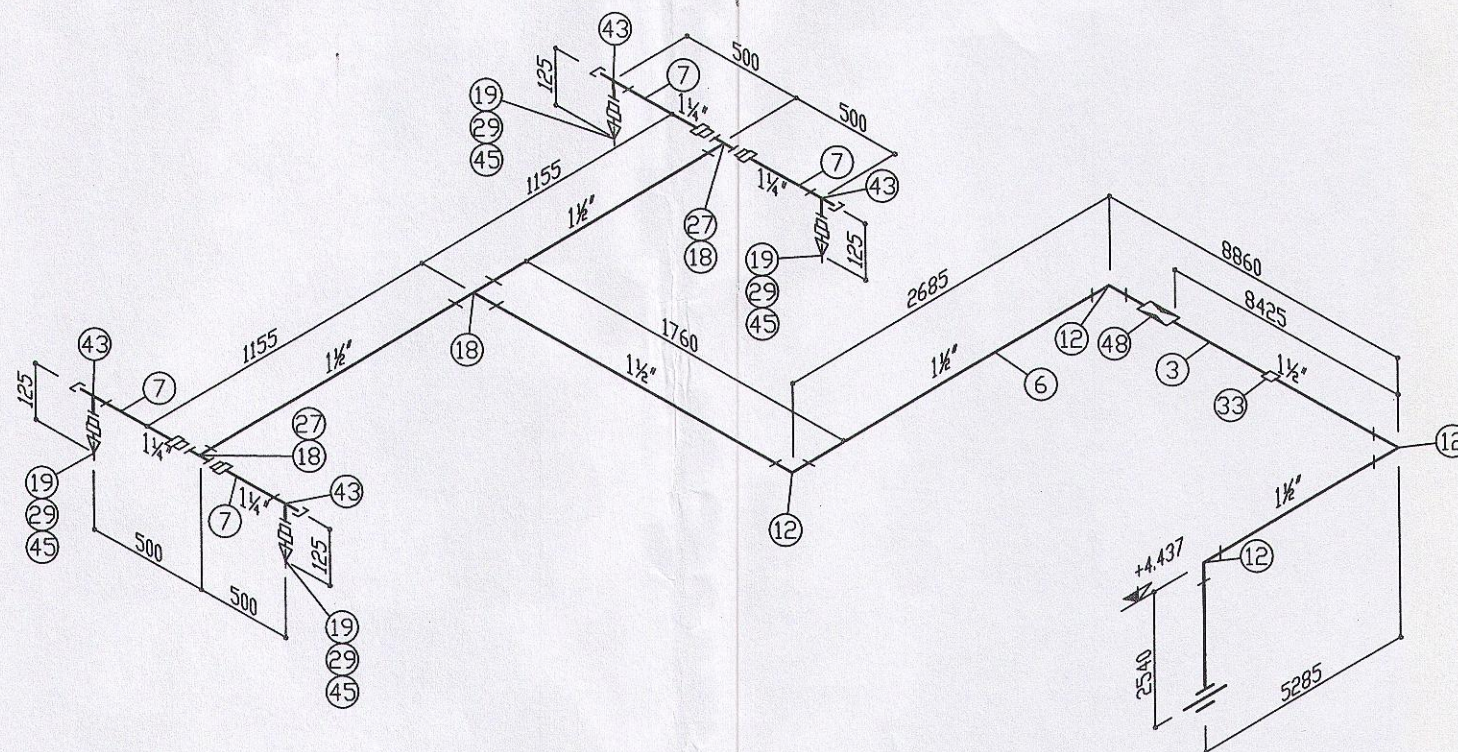
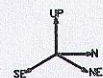
FOR CONSTRUCTION
SIGNATURE _____ DATE _____

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REV.	REV.	DATE	REVISED BY	CHKD BY	REMARKS

		شرکت آهن و فولاد غدیر ایرانیان			
PROJECT TITLE : GHADIR DIRECT REDUCTION PLANT		CLIENT DRAWING No. 3201 XSU01014		REV 1	
DRAWING TITLE : MAIN CONTROL HOUSE GROUND FLOOR - POWER & LIGHT. CENTER ISOMETRIC DRAWING FOR IG01 SYSTEM PIPING					
DESIGNED SANCO		DATE 90.04.11		SCALE -	
DRAWN R.FATTAHI		DATE 90.04.11		SIZE A1	
CHECKED A.TAHERIAN		DATE 90.04.12		PROJECT REF. NO.	
APPROVED A.ROSHAN		DATE 90.04.13			
IRITEC DRAWING No. 320110,ME,33,SU,026					



TYPICAL DIRTY TRAP



138-901185

تاریخ: ۱۳۹۰/۶/۲۷

COMMENTED

REFERENCE: IGS BAR IRT 1303

DATE: ۱۳۹۰/۷/۱۸

SIGN:



NOTE,
WORK THIS DRAWING WITH DWG NO. 3201 XSU01008

FOR CONSTRUCTION

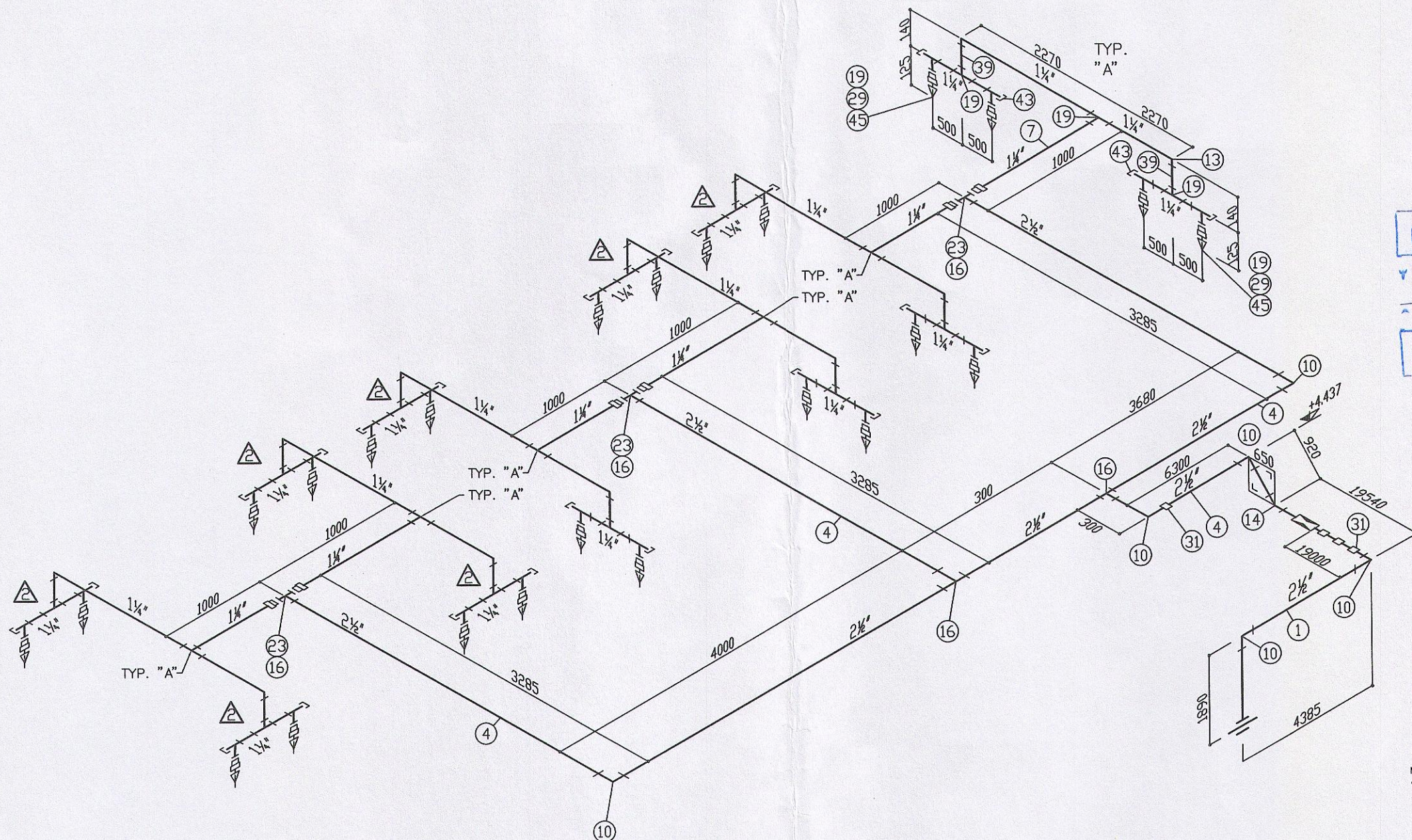
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REV.	DATE	REVISION BY	REVISION CHECKED BY	REMARKS

شرکت آهن و فولاد غدیر ایرانیان	
PROJECT TITLE :	CLIENT DRAWING No.
GHADIR DIRECT REDUCTION PLANT	3201 XSU01015
DRAWING TITLE :	
MAIN CONTROL HOUSE GROUND FLOOR - BATTERY ROOM ISOMETRIC DRAWING FOR IG01 SYSTEM PIPING	
IRITEC	ایریتک
DESIGNED	SANCO
DRAWN	R.FATTAHI
CHECKED	A.TAHERIAN
APPROVED	A.ROSHAN
IRITEC DRAWING No.	REV
3201110,ME,33,SU,027	1
DATE	SCALE
90.04.11	-
90.04.11	A1
90.04.12	PROJECT REF. NO.
90.04.12	



TYPICAL DIRTY TRAP

پوست
138-901185
تاریخ: ۱۳۹۰/۶/۲۷

COMMENTED
REFERENCE: IGS BAR IRT 1303
DATE: _____
SIGN: ۱۳۹۰/۷/۱۸
BARSOO

NOTE:
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& DWG NO, 3201 XSU01008

FOR CONSTRUCTION

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REV.	REV.	DATE	REV. BY	CHK BY	REMARKS

 شرکت آهن و فولاد غدیر ایرانیان											
PROJECT TITLE :			CLIENT DRAWING No.								
GHADIR DIRECT REDUCTION PLANT			3201 XSU01017								
DRAWING TITLE :			MAIN CONTROL HOUSE								
			GROUND FLOOR - M.V. SWITCHGEAR AREA PART I								
			ISOMETRIC DRAWING FOR IGO1 SYSTEM PIPING								
IRITEC IRAN INTERNATIONAL ENGINEERING COMPANY		ایریتک شرکت آهن و فولاد غدیر ایرانیان		DESIGNED	SANCO	DATE	90.04.11	SCALE	—	SIZE	A1
				DRAWN	R.FATTAHI	DATE	90.04.11	PROJECT REF. NO.			
				CHECKED	A.TAHERIAN	DATE	90.04.12				
				APPROVED	A.ROSHAN	DATE	90.04.13				
IRITEC Drawing No.				REV							
320110.MF.33.SU.029				1							

BILL OF MATERIAL										Q.TY						
POS.	DESCRIPTION	DIMENSION		MATERIAL	U.M.	A1	B1	C1	D1	E1	F1	F2	G1	G2	TOT.	
1	PIPE THREADED ENDS	2½"	-SCH.160	ASTM A106 Gr.B -GALV.	MT.	19	/	28	19	/	18	40	25.5	12.5	162	
2	PIPE THREADED ENDS	2"	-SCH.160	ASTM A106 Gr.B -GALV.	MT.	/	13	/	/	/	/	/	/	/	13	
3	PIPE THREADED ENDS	1½"	-SCH.160	ASTM A106 Gr.B -GALV.	MT.	/	/	/	/	17	/	/	/	/	17	
4	PIPE THREADED ENDS	2½"	-SCH.40	ASTM A106 Gr.B -GALV.	MT.	25	/	39	14	/	30	8.5	26	25	167.5	
5	PIPE THREADED ENDS	2"	-SCH.40	ASTM A106 Gr.B -GALV.	MT.	10	11	10	6.5	/	5	33.5	/	/	76	
6	PIPE THREADED ENDS	1½"	-SCH.40	ASTM A106 Gr.B -GALV.	MT.	/	32	47	19	8	/	/	/	37.5	143.5	
7	PIPE THREADED ENDS	1¼"	-SCH.40	ASTM A106 Gr.B -GALV.	MT.	48	/	/	/	2	29.5	/	50	/	129.5	
8	PIPE THREADED ENDS	1½"	-SCH.40	ASTM A106 Gr.B -GALV.	MT.	/	3	/	3.5	/	/	/	/	/	6.5	
9	PIPE THREADED ENDS	¾"	-SCH.40	ASTM A106 Gr.B -GALV.	MT.	/	/	22.5	/	/	/	22.5	/	/	45	
10	90° THREADED ELBOW	2½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	5	/	12	4	/	7	4	7	6	45	
11	90° THREADED ELBOW	2"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	3	/	/	/	/	8	/	/	11	
12	90° THREADED ELBOW	1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	7	16	6	4	/	/	/	8	41	
13	90° THREADED ELBOW	1¼"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	8	/	12	/	20	
14	45° THREADED ELBOW	2½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	/	1	1	2	
15																
16	THREADED EQUAL TEE	2½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	3	/	7	1	/	3	1	5	3	23	
17	THREADED EQUAL TEE	2"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	4	3	8	4	/	4	30	/	/	53	
18	THREADED EQUAL TEE	1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	34	16	24	3	/	/	/	32	109	
19	THREADED EQUAL TEE	1¼"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	56	/	/	/	4	24	/	42	/	126	
20	THREADED EQUAL TEE	¾"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	32	/	/	/	32	/	/	64	
21	THREADED REDUCTION M/F	2½" x 2"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	4	/	8	2	/	4	2	/	/	20	
22	THREADED REDUCTION M/F	2½" x 1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	/	/	4	4	
23	THREADED REDUCTION M/F	2½" x 1¼"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	/	6	/	6	
24	THREADED REDUCTION M/F	2" x 1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	4	16	6	/	/	/	/	/	26	
25	THREADED REDUCTION M/F	2" x 1¼"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	8	/	/	/	/	8	/	/	/	16	
26	THREADED REDUCTION M/F	2" x 1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	/	/	/	/	
27	THREADED REDUCTION M/F	1½" x 1¼"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	4	/	/	/	/	4	
28	THREADED REDUCTION M/F	1½" x 1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	23	/	18	/	/	/	/	18	59	
29	THREADED REDUCTION M/F	1¼" x 1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	32	/	/	/	4	16	/	24	/	76	
30	THREADED REDUCTION M/F	1½" x ¾"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	32	/	/	/	/	/	/	32	
31	THREADED COUPLING F/F	2½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	4	/	1	2	/	2	4	4	1	18	
32	THREADED COUPLING F/F	2"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	1	/	/	/	/	/	/	/	1	
33	THREADED COUPLING F/F	1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	1	/	/	/	/	1	
34	THREADED COUPLING F/F	1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	15	/	12	/	/	/	/	/	27	
35																
36	THREADED NIPPLE	2½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	/	/	/	/	
37	THREADED NIPPLE	2"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	1	/	/	/	/	8	/	/	9	
38	THREADED NIPPLE	1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	/	/	/	0	
39	THREADED NIPPLE	1¼"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	8	/	12	/	20	
40	THREADED END CAP F	2½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	/	/	/	/	
41	THREADED END CAP F	2"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	/	/	/	/	
42	THREADED END CAP F	1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	23	/	12	/	/	/	/	18	53	
43	THREADED END CAP F	1¼"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	32	/	/	/	4	16	/	24	/	76	
44	THREADED END CAP F	¾"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	32	/	/	/	32	/	/	64	
45	SPRAY NOZZLE	1½"	NPTM	BRASS	N°	32	23	32	18	4	16	32	24	18	199	
46	RESTRICTOR	2½"	NPTF	ANSI B16.11-ASTM A105 -GALV.	N°	1	/	1	1	/	1	1	1	1	7	
47	RESTRICTOR	2"	NPTF	ANSI B16.11-ASTM A105 -GALV.	N°	/	1	/	/	/	/	/	/	/	1	
48	RESTRICTOR	1½"	NPTF	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	1	/	/	/	/	1	
49	THREADED REDUCTION M/F	2" x ¾"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	32	/	/	32	
50	THREADED REDUCTION M/F	¾" x 1½"	#3000 NPT	ANSI B16.11-ASTM A105 -GALV.	N°	/	/	/	/	/	/	32	/	/	32	



138-901185

تاریخ: ۱۳۹۰/۶/۲۷

COMMENTED

REFERENCE: IGS BAR IRT

DATE: ۱۳۹۰/۷/۱۸

SIGN:

1303



FOR CONSTRUCTION

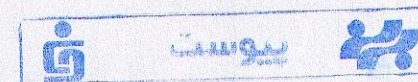
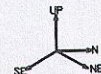
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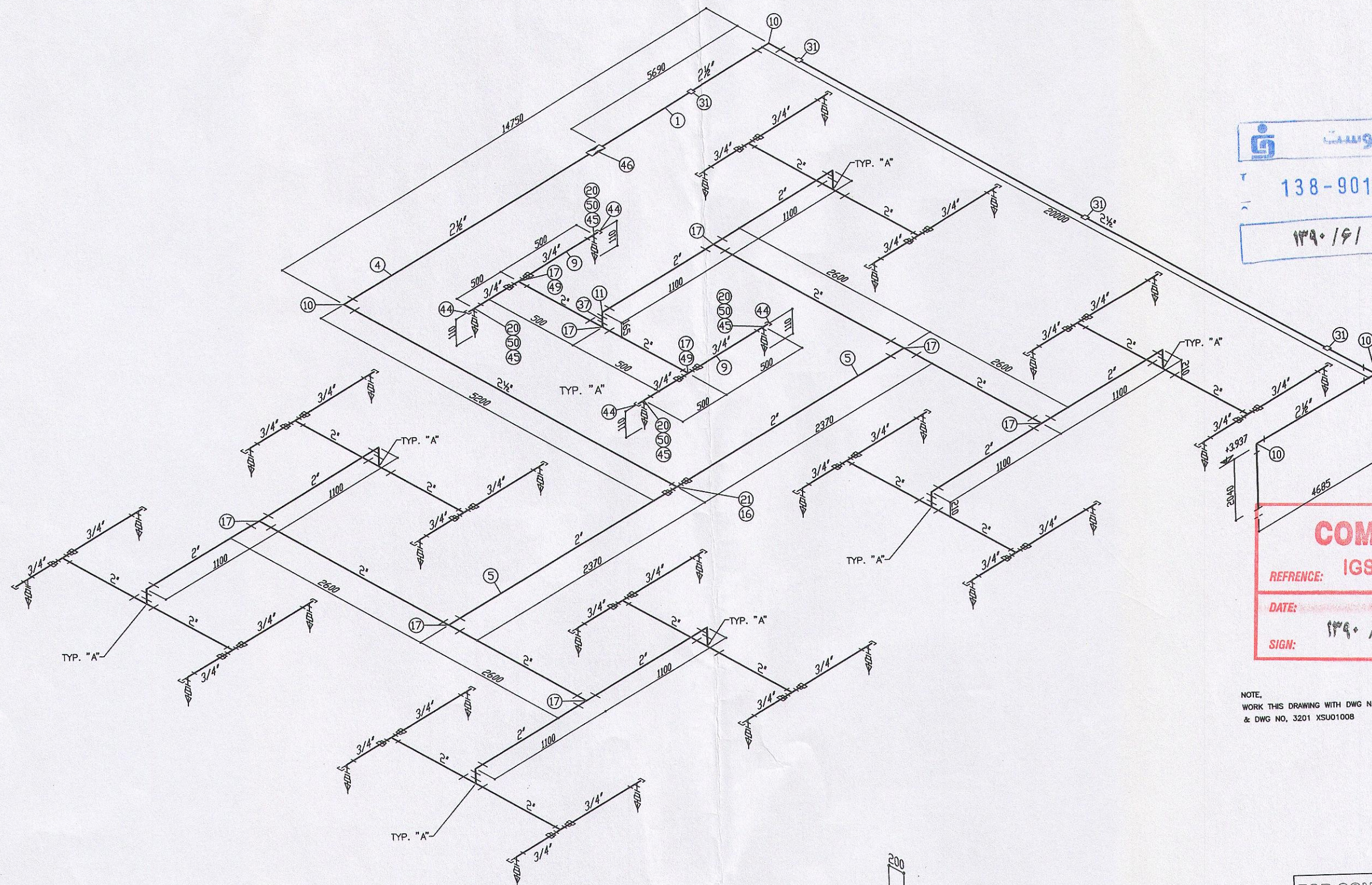
REV.	DATE	REVISION BY	CHK BY	REMARKS

					شرکت گهن و فولاد غدیر ایرانیان				
PROJECT TITLE : GHADIR DIRECT REDUCTION PLANT					CLIENT DRAWING No. 3201 XSU01018				
DRAWING TITLE : MAIN CONTROL HOUSE BILL OF MATERIAL FOR IG01 SYSTEM PIPING					REV. 1 DATE 90.04.11 SCALE A1				
DESIGNED : SANCO					CHECKED : A.TAHERIAN				
APPROVED : A.ROSHAN					DATE 90.04.13				



138-901185

تاریخ: ۱۳۹۰/۶/۲۷



COMMENTED

REFERENCE: IGS BAR IRT 1303

DATE: ۱۳۹۰/۷/۱۸

SIGN:



NOTE:
WORK THIS DRAWING WITH DWG NO. 3201 XSU01016
& DWG NO. 3201 XSU01008

FOR CONSTRUCTION

SIGNATURE _____ DATE _____

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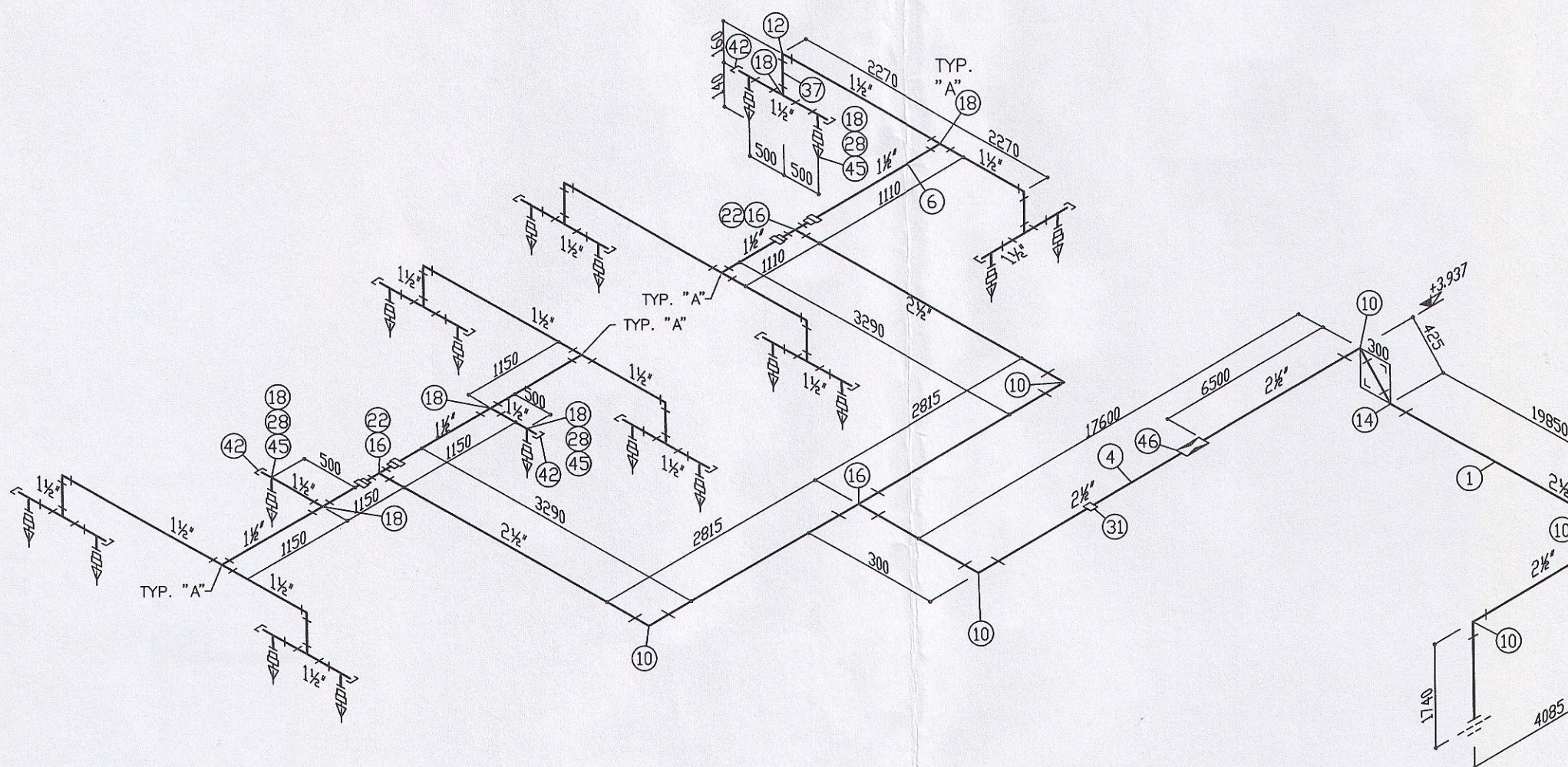
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REV.	REV.	DATE	REVISION BY	REMARKS

شرکت آهن و فولاد غدیر ایرانیان		CLIENT DRAWING No.		REV
PROJECT TITLE : GHADIR DIRECT REDUCTION PLANT		3201 XSU01019		1
DRAWING TITLE : MAIN CONTROL HOUSE GROUND FLOOR - L.V. PANEL AREA PART II ISOMETRIC DRAWING FOR IG01 SYSTEM PIPING		DESIGNED		DATE
IRITEC		SANCO		90.04.11
DRAWN		R.FATAHI		90.04.11
CHECKED		A.TAHERIAN		90.04.12
APPROVED		A.ROSHAN		90.04.13
IRITEC DRAWING No.		320110,ME,33,SU,031		1
SCALE		PROJECT REF. NO.		A1



TYPICAL DIRTY TRAP

پارسکو
138-901185
تاریخ: ۱۳۹۰/۶/۲۷

COMMENTED
REFERENCE: IGS BAR IRT 1303
DATE: ۱۳۹۰/۷/۱۸
SIGN: 
BARSOG

NOTE:
WORK THIS DRAWING WITH DWG NO, 3201 XSU01017
& DWG NO, 3201 XSU01008

FOR CONSTRUCTION

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REV.	DATE	REVISION BY	CHIEF BY	REMARKS

شرکت آهن و فولاد غدیر ایرانیان				
PROJECT TITLE : GHADIR DIRECT REDUCTION PLANT		CLIENT DRAWING No. 3201 XSU01020		
DRAWING TITLE : MAIN CONTROL HOUSE GROUND FLOOR - M.V. SWITCHGEAR AREA PART II ISOMETRIC DRAWING FOR IG01 SYSTEM PIPING		REV		
IRITEC		SIGNATURE	DATE	SCALE
DESIGNED		SANCO	90.04.11	-
DRAWN		R.FATTAHI	90.04.11	A1
CHECKED		A.TAHERIAN	90.04.12	PROJECT REF. NO.
APPROVED		A.ROSHAN	90.04.13	
IRITEC DRAWING No. 320110, ME, 33, SU, 032				