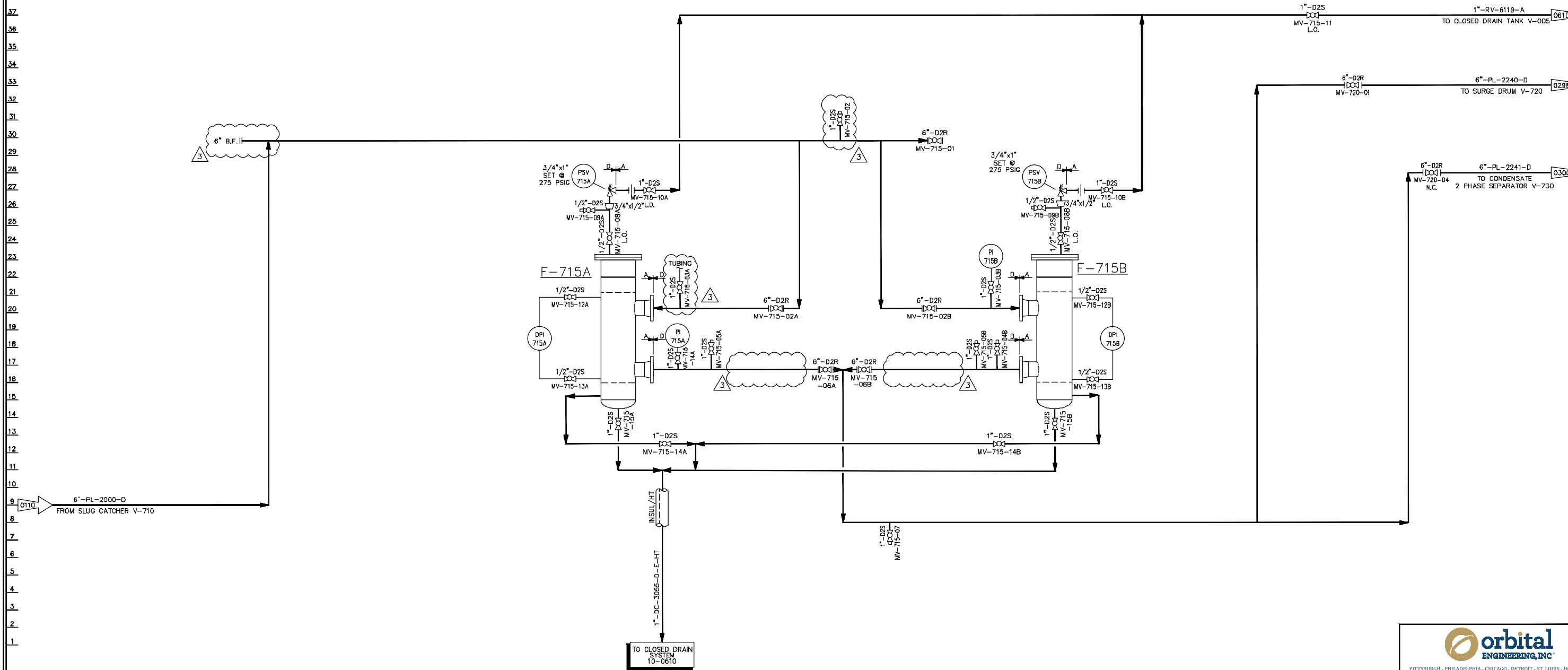


F-715 A & B
PARTICULATE FILTER
SEPARATOR

SIZE: 18" O.D. x 42.5" T/T
OPERATING: 230 PSIG
DESIGN: 275 PSIG @ 100°F
MDMT: -20°F @ 275 PSIG
DESIGN CAP: 180 GPM @ 2.25 PSID CLEAN

47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1



PROJECT PIT.22.7136



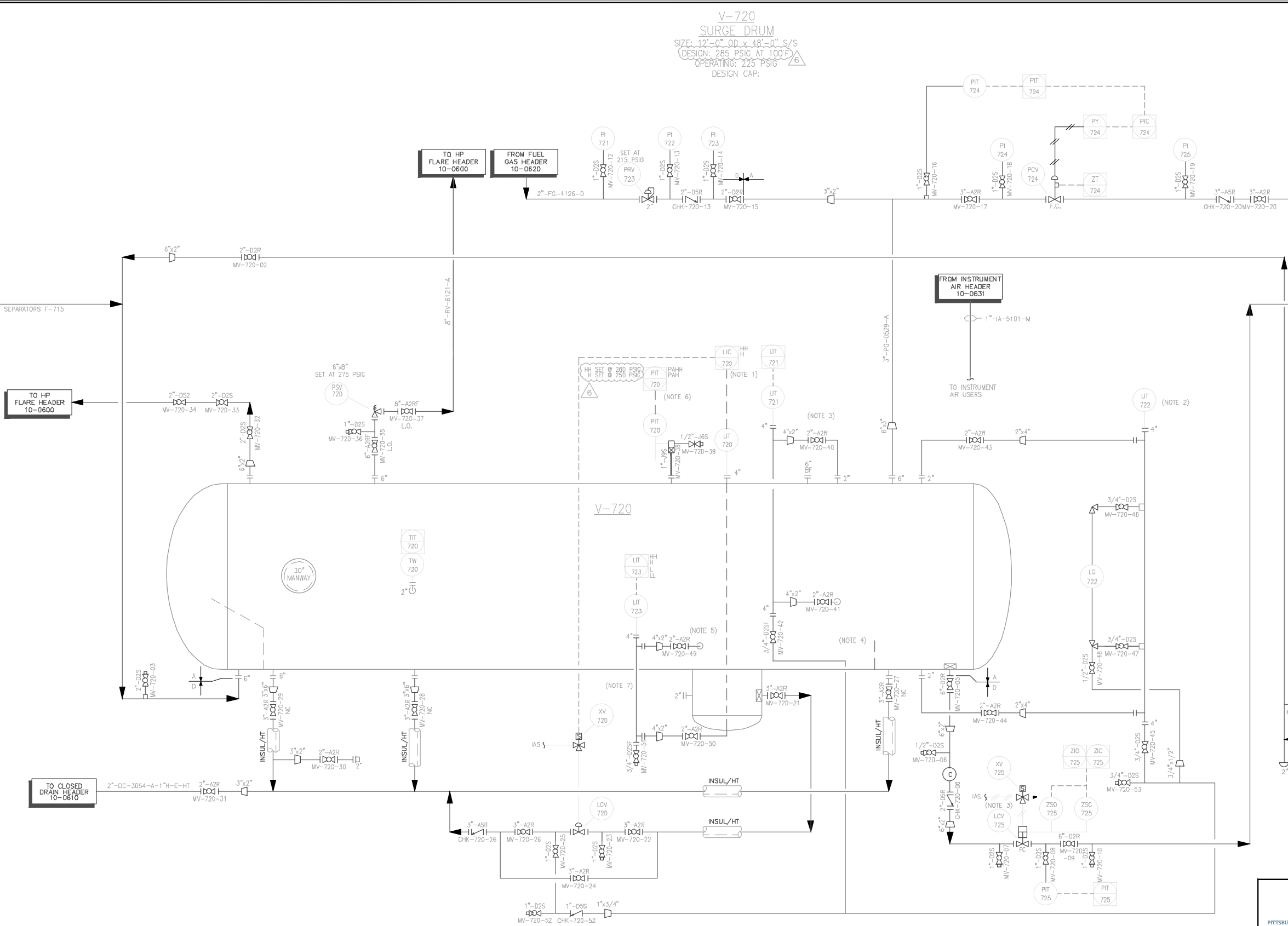
MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
PARTICULATE FILTER SEPARATORS

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	PH	03/11/14
3	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22			
2	MOC# 05242016	BMS	CB	BMS	09/06/16	CLIENT	-	-
1	AS-BUILT	CNH	KRE	BMS	08/24/15	APPROVED	JD	03/11/14
0	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14	CHECKED	JC	03/11/14

JOB NO. 009963.001 DWG. NO. MJV-CGP-10-0297

47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1



- NOTES:
1. LIT-720 IS GUIDED WAVE RADAR INSTRUMENT AND WILL MEASURE INTERFACE & OVERALL LEVEL. UC-720 WILL OPEN LCV-720 ON HIGH WATER/HYDROCARBON INTERFACE LEVEL TO ALLOW WATER TO EXIT BOOT. LAH & LAHH WILL ANNUNCIATE WITH RESPECT TO WATER LEVEL IN VESSEL. LAHH-720 WILL INTERLOCK SDV-700 CLOSED ON MJV-CGP-10-0110.
 2. LIT-722 IS GUIDED WAVE RADAR AND MEASURES CONDENSATE LEVEL. HIGH HIGH LEVEL WILL CLOSE SDV-700 ON MJV-CGP-10-0110. LOW LOW LEVEL WILL CLOSE LCV-725.
 3. LEVEL INSTRUMENT *721* MEASURES CONDENSATE LEVEL. HIGH HIGH LEVEL WILL CLOSE SDV-700 ON MJV-CGP-10-0110. LOW LOW LEVEL WILL CLOSE LCV-725.
 4. TOP OF WIER IS LOCATED 3" BELOW THE LOWER BRIDLE NOZZLE FOR LEVEL SWITCH 721.
 5. TOP OF WIER IS LOCATED 3" ABOVE THE LOWER BRIDLE NOZZLE FOR LIT-723.
 6. PIT-720 HH PRESSURE WILL CLOSE SDV-700 ON P&ID MJV-CGP-10-0110.
 7. LEVEL INSTRUMENT *723* WILL CONTROL BOOT WATER LEVEL. HIGH HIGH LEVEL WILL CLOSE SDV-700 ON MJV-CGP-10-0110. LOW LEVEL WILL CLOSE LCV-720.

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	PH	03/11/14
6	REVISED PER PHA REDLINES	RCA	KBK	JMM	09/02/22			
5	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22			
4	AS BUILTS	BMS	KE	BMS	12/09/15			
3	AS BUILT FOR CNX PER WALKDOWN AND MOC #05222015	KJR	CB	BS	06/11/15			
2	AS BUILT FOR CNX	KJR	GC	JM	07/11/14			
1	ISSUED FOR CONSTRUCTION - REVISED PER CLIENT COMMENTS	PH	JC	JD	03/31/14			
0	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14			



PROJECT PIT.22.7136

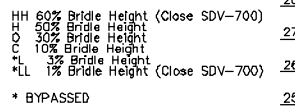


MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
SURGE DRUM

CLIENT	-	-
APPROVED	JD	03/11/14
CHECKED	JC	03/11/14

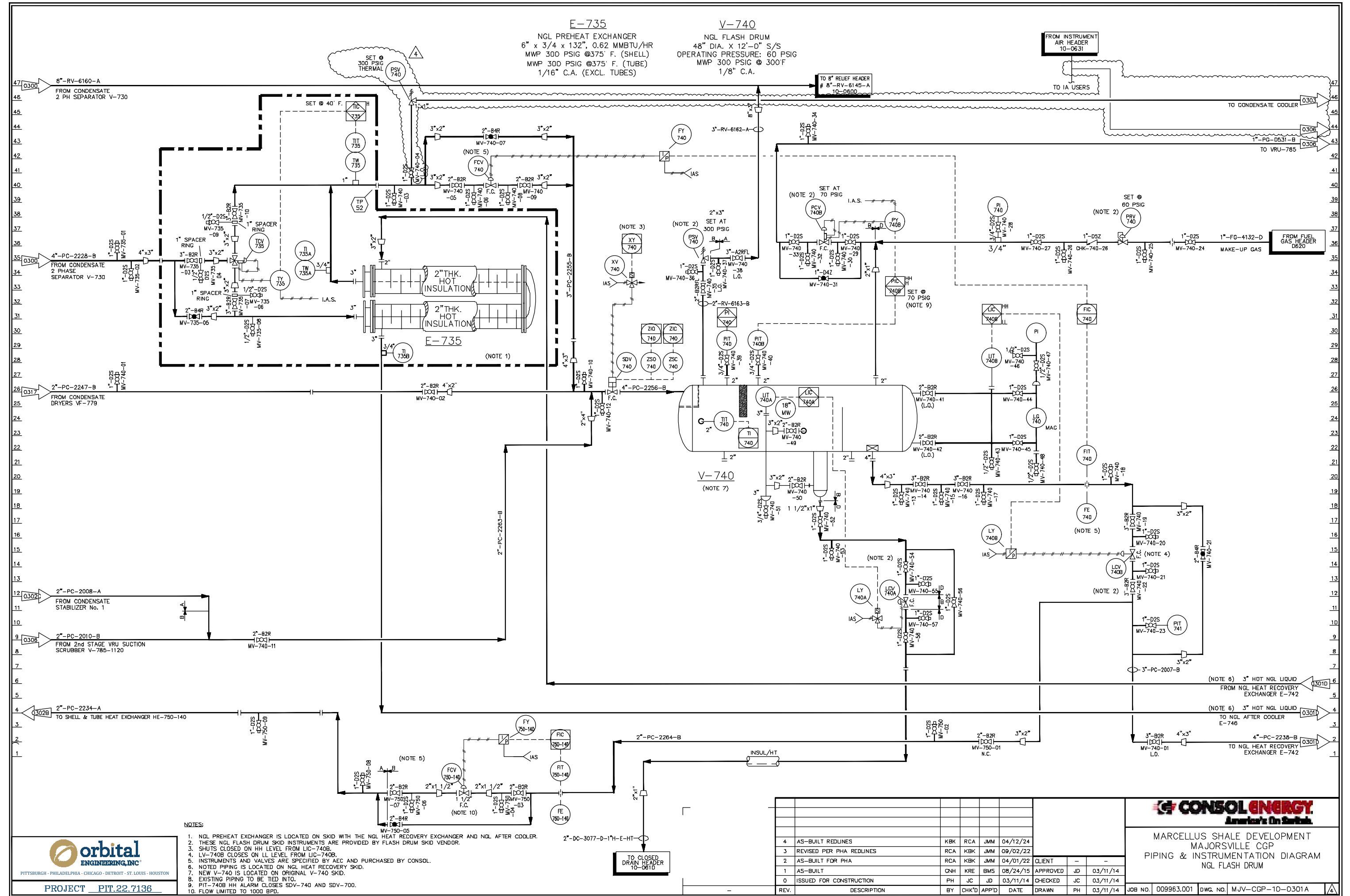
JOB NO.	009963.001
DWG. NO.	MJV-CGP-10-0298

SIZE: 36" I.D. x 143" T/T
DESIGN: 1440 PSIG @ 0/100°F
OPERATING: 225 PSIG @ 90°F
DESIGN CAP: 5000 BPD
REF SCHULTZ #: 11-1146-1P&ID



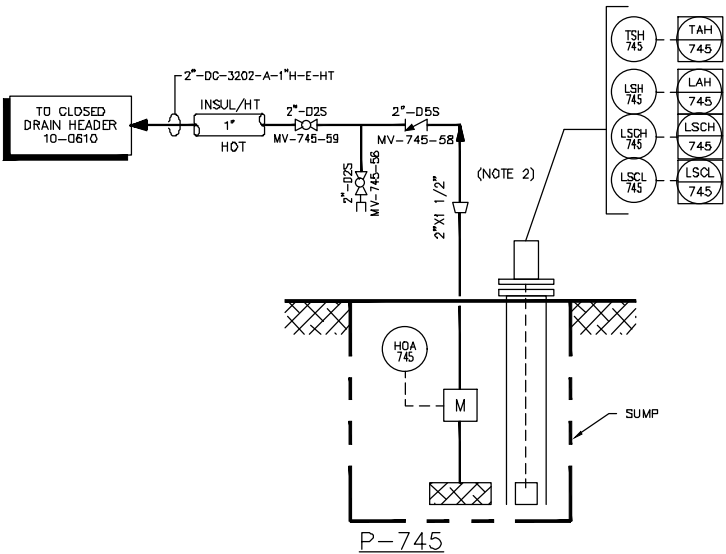
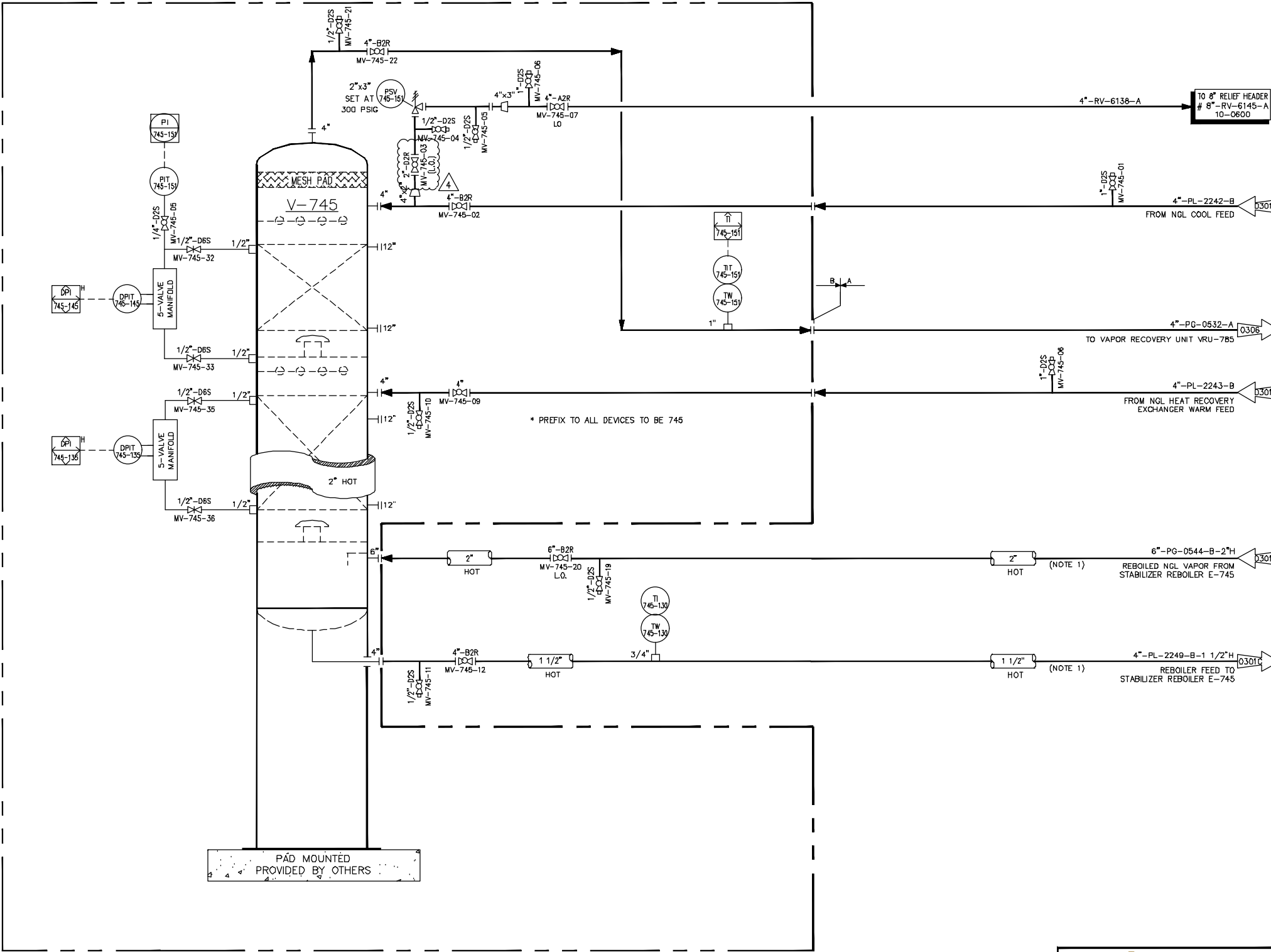
CONSOL ENERGY
America's On Shores

[illegible]



P-745
SUBMERSIBLE SUMP PUMP

V-745
NGL STABILIZER
30" OD X 55'-0" S/S TWO (2) 20' SECTIONS
M.W.P.: 300 PSIG @ 375' F
2" H



- NOTES:
1. VENDOR SUPPLIED PIPING.
 2. HIGH LEVEL WILL TURN ON SUMP PUMP. LOW LEVEL WILL TURN OFF SUMP PUMP.

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	PH	03/11/14
5	REVISED PER PHA REDLINES	RCA	KBK	JMM	09/02/22			
4	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22			
3	REVISED FOR MOC # 08282015	BMS	CB	BMS	09/18/15			
2	AS-BUILT	CNH	KRE	BMS	08/24/15			
1	IFC - REVISED PER HAZOP RECOMMENDATIONS	SS	EH	JC	04/18/14			
0	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14			



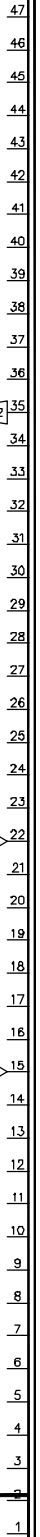
PROJECT PIT.22.7136



MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
NGL STABILIZER TOWER

JOB NO. 009963.001 DWG. NO. MJV-CGP-10-0301B

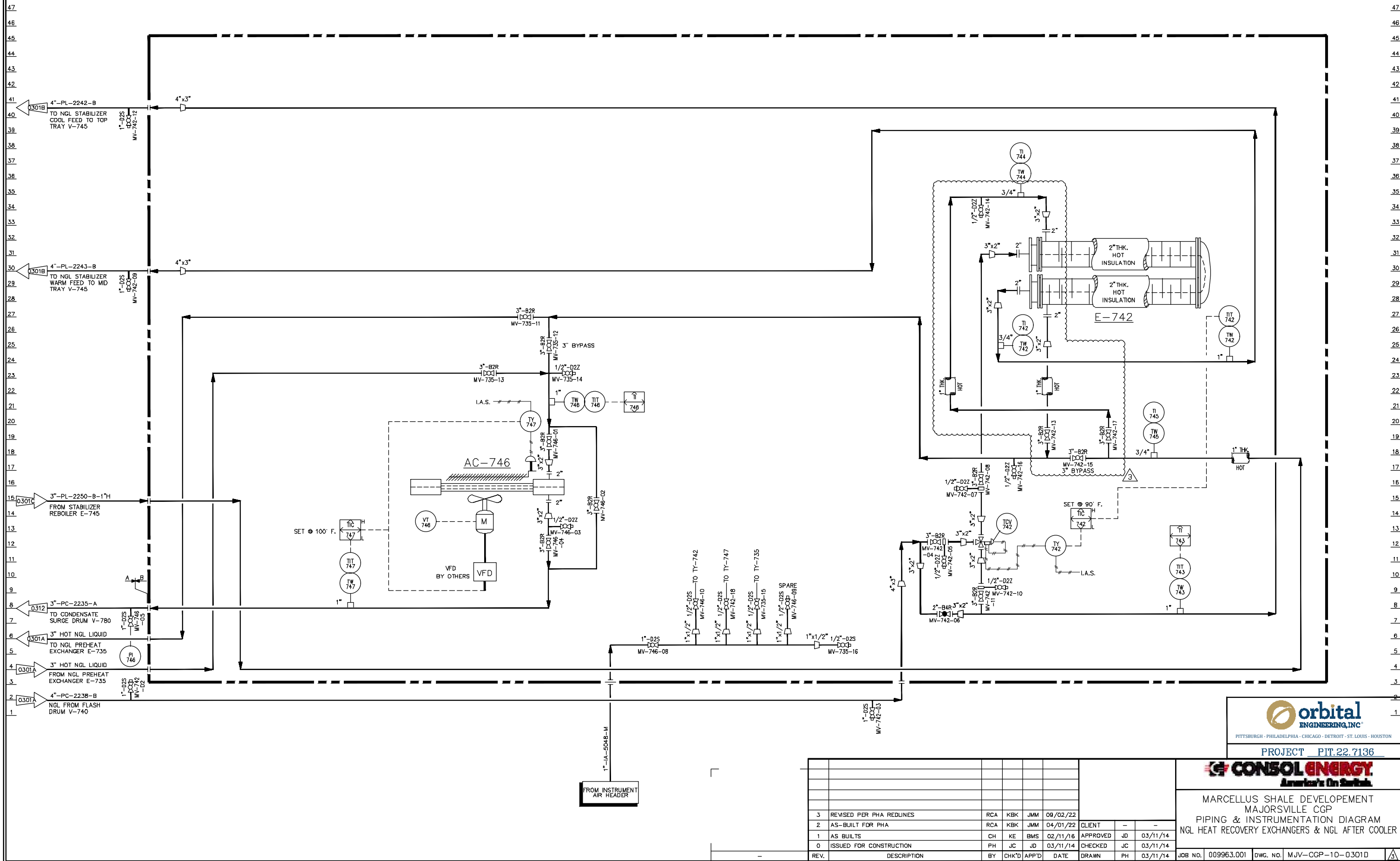
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1



2	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22	CJENT	-	-
1	AS-BUILT	CNH	KRE	BMS	08/24/15	APPROVED	JD	03/11/14
0	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14	CHECKED	JC	03/11/14
REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	PH	03/11/14

AC-746
NGL AFTER COOLER
1F12-090-1/2.1 MMBTU/HR. 15 HP 460/3/60
MWP 350 PSIG @ -20/400° F.
1/16" C.A. (EXCL. TUBES)

E-742
NGL HEAT RECOVERY EXCHANGER
4' X 3/4' X 240' .44MMBTU/HR
MWP 300 PSIG @ 375° F. (SHELL)
300 PSIG @ 250° F. (TUBE)
1/16" C.A. (EXCL. TUBES)



orbital
ENGINEERING, INC.
PITTSBURGH - PHILADELPHIA - CHICAGO - DETROIT - ST. LOUIS - HOUSTON

PROJECT PIT.22.7136

CONSOL ENERGY
America's On Shores.

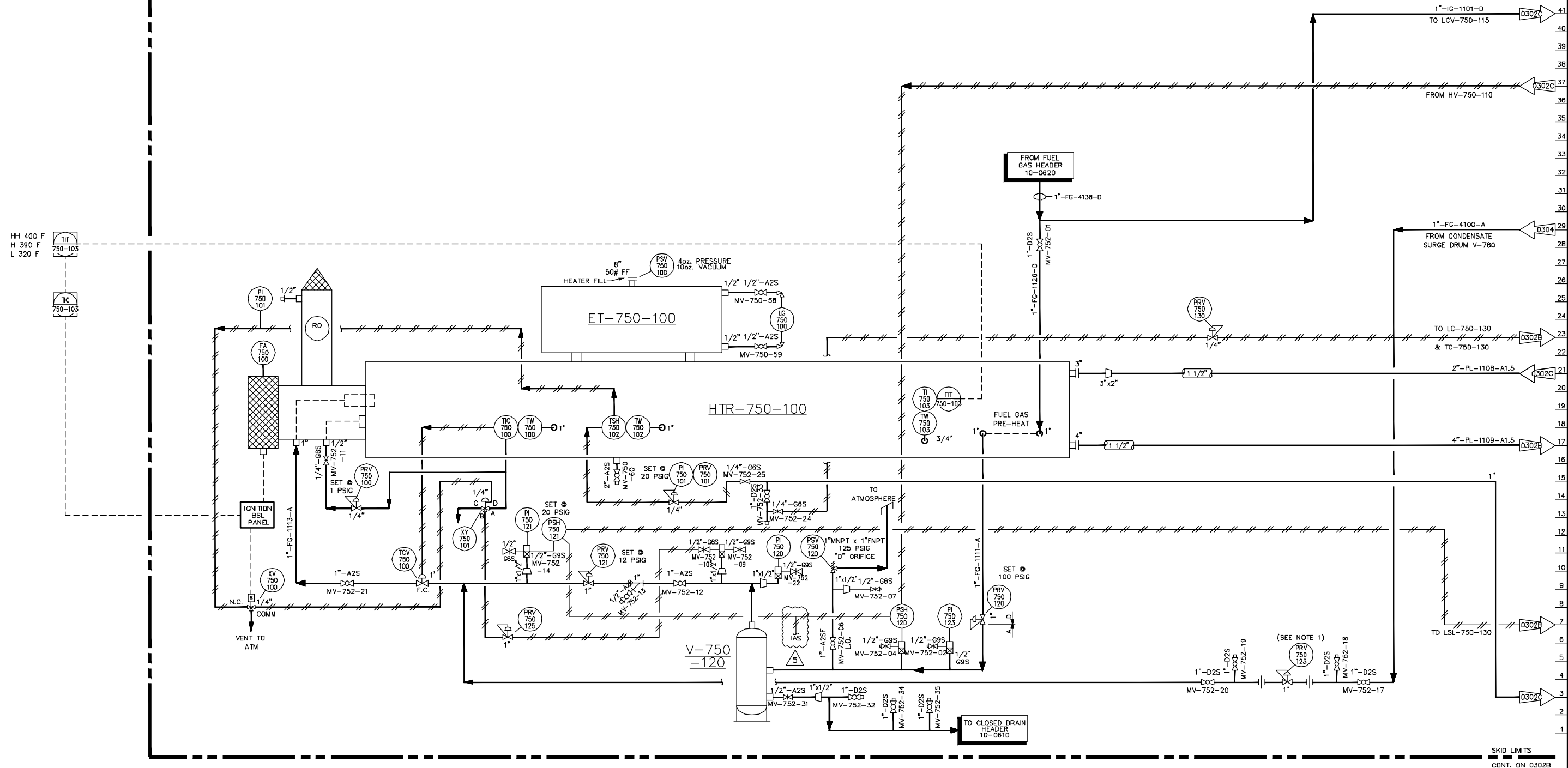
MARCELLUS SHALE DEVELOPEMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
NGL HEAT RECOVERY EXCHANGERS & NGL AFTER COOLER

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	PH	03/11/14
3	REVISED PER PHA REDLINES	RCA	KBK	JMM	09/02/22			
2	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22			
1	AS BUILTS	CH	KE	BMS	02/11/16	APPROVED	JD	03/11/14
0	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14	CHECKED	JC	03/11/14

ET-750-100
EXPANSION TANK
16" OD X 5'-0" S/S
DESIGN PRESSURE: ATMOS.
DESIGN TEMPERATURE: XXX

HTR-750-100
INDIRECT HEATER
INTERNAL: ATMOS. @ XXX
36" OD X 14'-0" L
N/A
C.A.: 0
N.D.E. TESTING: RT-?
5 LATERALS WITH 2" XH COILS
4 PASSES EACH LAT (TOTAL 20 PASSES)

V-750-120
FUEL GAS SCRUBBER
INTERNAL: PRESSINT @ TEMPINT
OD X LENGTH
CODE
C.A.: CORROSION
N.D.E. TESTING: XRAY
(RATED TO 250 PSIG) A



- NOTES:
1. FISHER 627 REGULATOR, 3/8" ORIFICE, 15-40 PSIG RANGE, SET @ 20 PSIG MAX.
2. AUDUBON ENGINEERING DRAFTED THIS P&ID BASED ON EXTERAN P&ID # HANO-481041000-00 REV. 0.



PITTSBURGH - PHILADELPHIA - CHICAGO - DETROIT - ST. LOUIS - HOUSTON

PROJECT PIT.22.7136

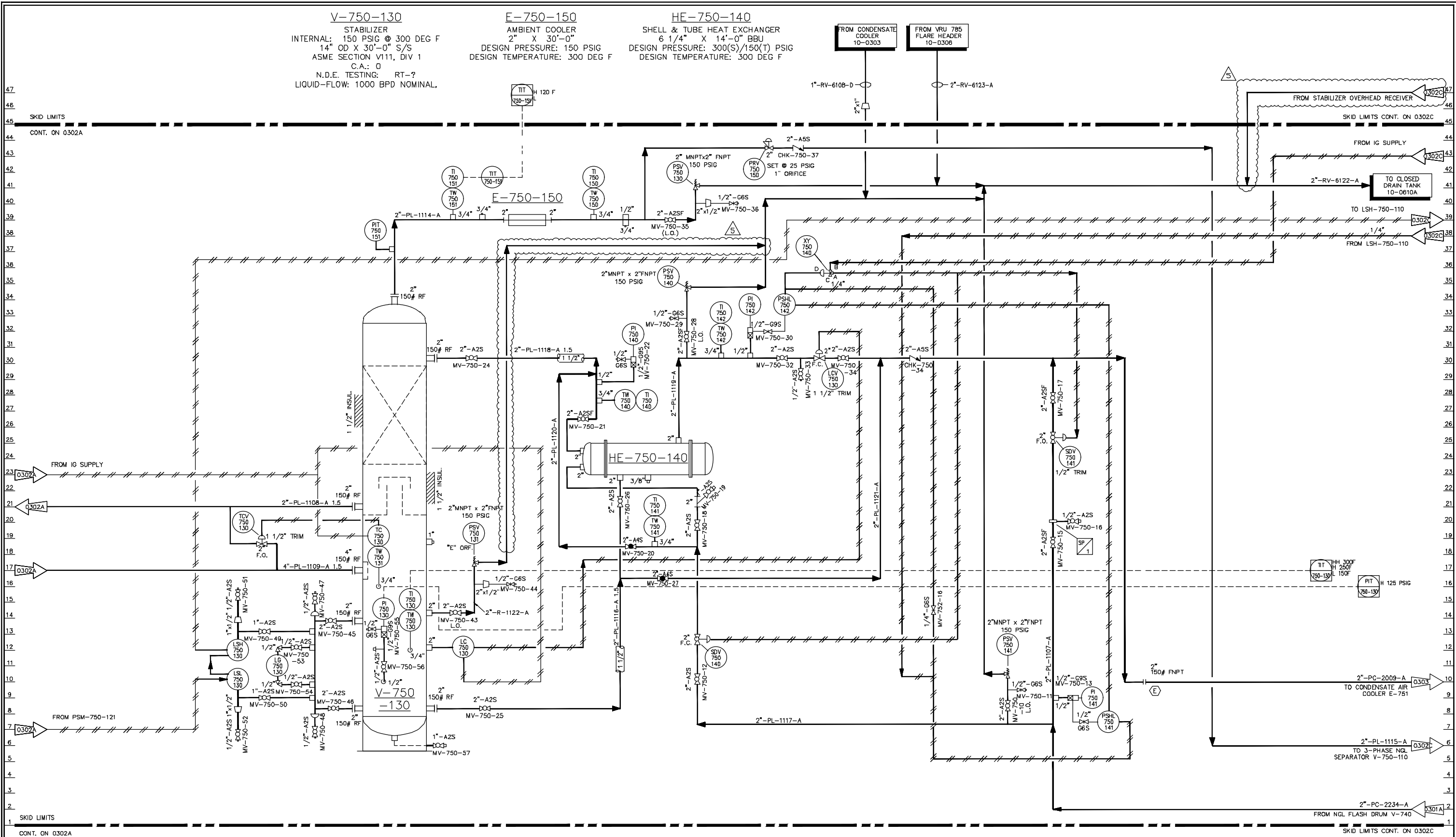
LAST EDIT: 10 Apr 24 2:28PM MJV-CGP-10-0302A-R5.dwg

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	DATE
5	AS-BUILT REDLINES	KBK	RCA	JMM	04/12/24		
4	REVISED PER PHA REDLINES	RCA	KBK	JMM	09/02/22		
3	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22		
2	AS-BUILT DRAWING	RG	KE	BS	2/15/16		
1	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14		
0	AS-BUILTS	PH	CC	JD	11/15/13		



MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
CONDENSATE STABILIZER (REBOILER)

JOB NO. D09963-001 DWG. NO. MJV-CGP-10-0302A



NOTES:

1. CONDENSATE STABILIZER 750 ACTS AS BACKUP TO CONDENSATE STABILIZER 745. STARTUP PROVISIONS ARE REQUIRED. MINIMUM FLOW IS 500 BPD.



PITTSBURGH - PHILADELPHIA - CHICAGO - DETROIT - ST. LOUIS - HOUSTON

PROJECT PIT.22.7136

LAST EDIT: 10 Apr 24 2:29PM MJV-CGP-10-0302B-R5.dwg

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	CHECKED	DATE
5	AS-BUILT REDLINES	KBK	RCA	JMM	04/12/24			
4	REVISED PER PHA REDLINES	RCA	KBK	JMM	09/02/22			
3	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22			
2	AS-BUILT DRAWING	RG	KE	BS	2/16/16			
1	ISSUED FOR CONSTRUCTION	PH	JD	JD	03/11/14			
0	AS-BUILTS	PH	CC	JD	11/15/13			

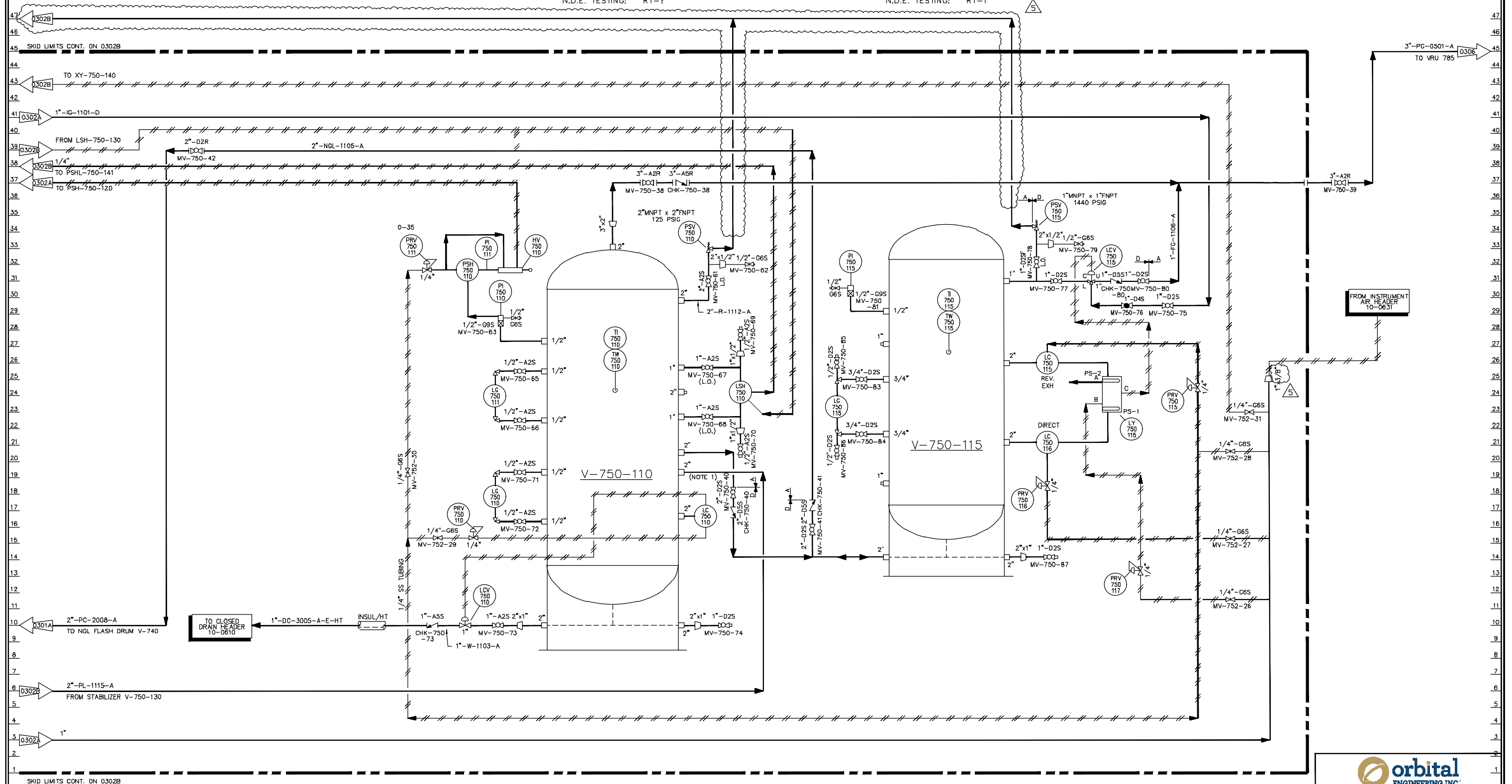


MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
CONDENSATE STABILIZER (TOWER)

JOB NO. 009963-001 DWG. NO. MJV-CGP-10-0302B

V-750-110
3-PHASE NGL SEPARATOR
INTERNAL: 125 PSIG @ 1300 DEG F/-20 DEG F
24" OD X 7'-6" S/S
ASME SECTION V111, DIV 1
C.A.: 0
N.D.E. TESTING: RT-?

V-750-115
BLOWCASE
INTERNAL: 1440 PSIG @ 300 DEG F
24" OD X 5'-0" S/S
ASME SECTION V111, DIV 1
C.A.: 0
N.D.E. TESTING: RT-1



NOTES:
1. GRAVITY FLOW

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	LAF	02/09/12	JOB NO.	009963.001	DWG. NO.	MJV-CGP-10-0302C
5	AS-BUILT REDLINES	KBK	RCA	JMM	04/12/24							
4	REVISED PER PHA REDLINES	RCA	KBK	JMM	09/02/22							
3	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22							
2	AS-BUILT DRAWING	RG	KE	BS	2/16/16							
1	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14							
0	CNX AS-BUILTS	PH	BS	AZ	06/21/13							

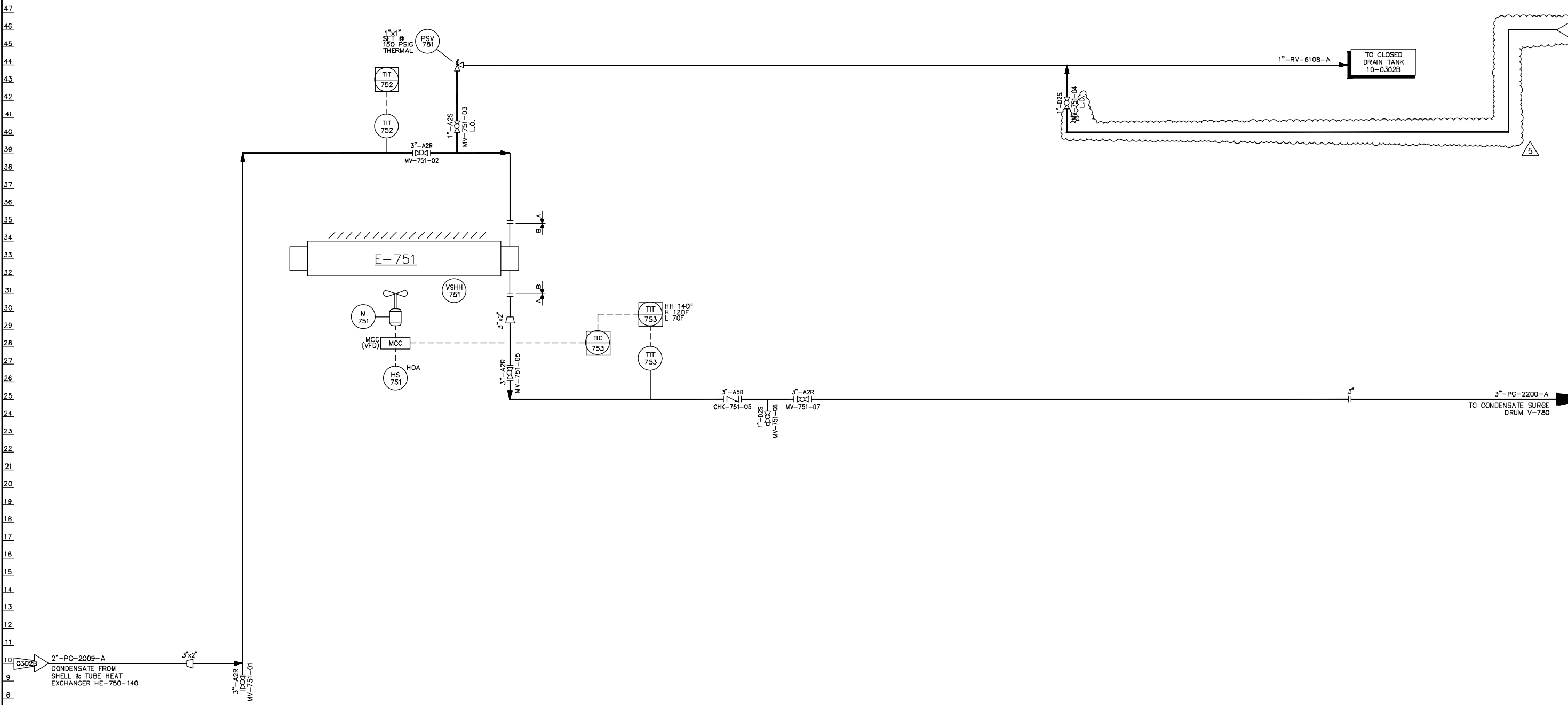



PROJECT PIT.22.7136



MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
STABILIZER OVERHEAD RECEIVER

E-751
CONDENSATE COOLER
DESIGN: 400 PSIG @ 300 F
MOTOR: 15 HP



						 MARCELLUS SHALE DEVELOPMENT MAJORSVILLE CGP PIPING & INSTRUMENTATION DIAGRAM CONDENSATE COOLER						
5	AS-BUILT REDLINES	KBK	RCA	JMM	04/12/24							
4	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22							
3	AS-BUILT	CNH	KRE	BMS	08/24/15							
2	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14	CLIENT	-	-				
1	AS-BUILTS	PH	CC	JD	11/15/13	APPROVED	-	-				
0	CNX AS-BUILTS	PH	BS	AZ	06/21/13	CHECKED	-	-				
REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	LAF	02/09/12	JOB NO.	009963.001	DWG. NO.	MJV-CGP-10-0303



ENGINEERING, INC.
PITTSBURGH - PHILADELPHIA - CHICAGO - DETROIT - ST. LOUIS - HOUSTON

PROJECT PIT.22.7136



MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
CONDENSATE COOLER

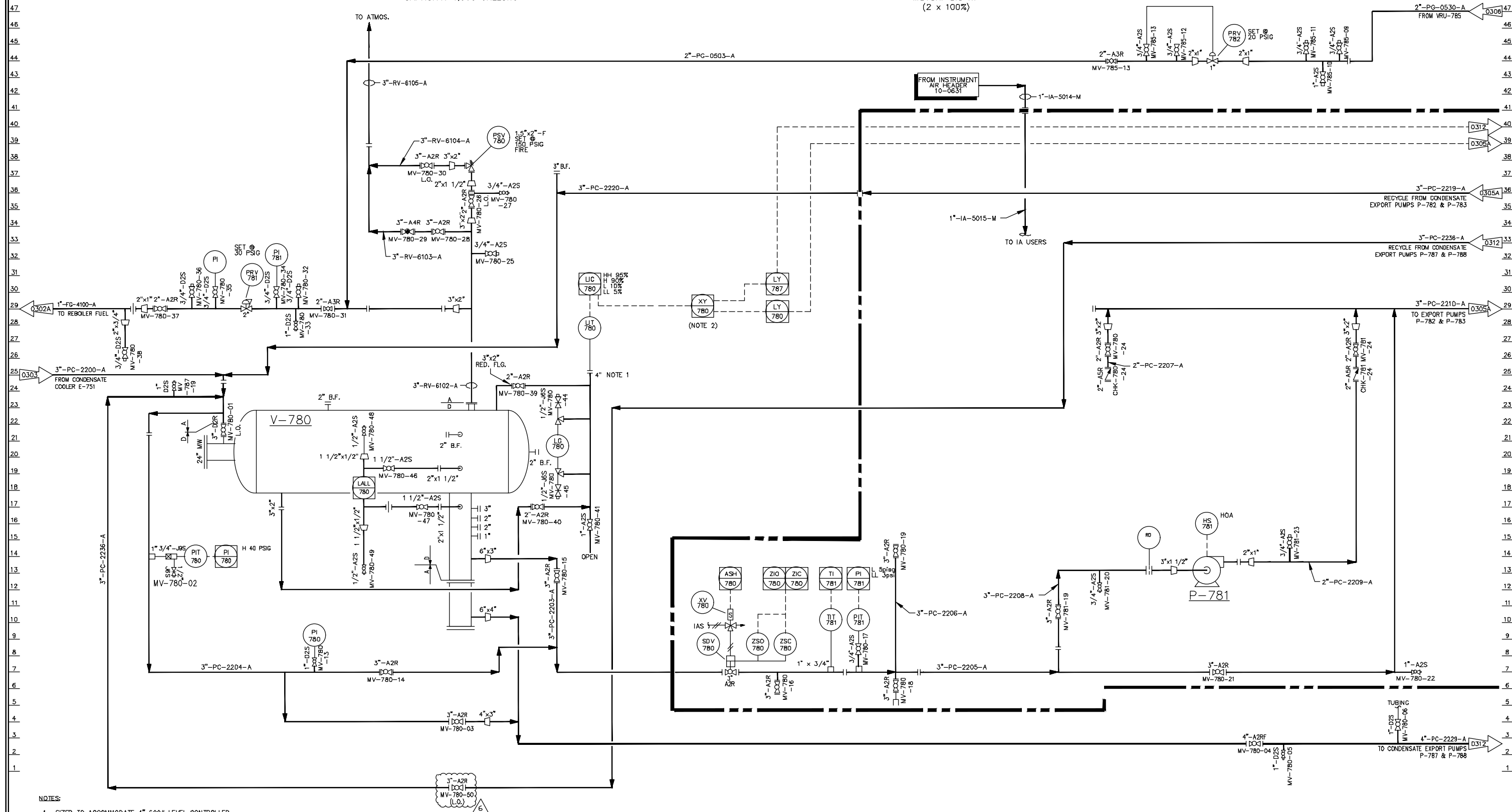
CONDENSATE EXPORT SKID

V-780
CONDENSATE SURGE DRUM

SIZE: 42" I.D. x 16'-0" S/S
DESIGN PRESSURE: 900 PSIG @ 150°F/-20°F
DESIGN PRESSURE: 0 PSIA @ 300°F
OPERATING PRESSURE: 25 PSIG @ 115°F
CAPACITY: 1,000 GALLONS

P-781
CONDENSATE BOOSTER PUMPS

DESIGN PRESSURE: 232 PSIG @ 392°F
OPERATING PRESSURE (S/D): 8.4 PSIG/20.4 PSIG
OPERATING TEMPERATURE: 115°F
CAPACITY: 30 GPM
MOTOR: 3.0 HP
(2 x 100%)



NOTES:

1. SIZED TO ACCOMMODATE 4" 600# LEVEL CONTROLLER.
2. XY-780 IS DESIGNED TO ALLOW THE OUTPUT OF LIC-780 TO BE SWITCHED TO EITHER LY-780 OR LY-787 DEPENDING ON THE PUMPS IN SERVICE.



PITTSBURGH - PHILADELPHIA - CHICAGO - DETROIT - ST. LOUIS - HOUSTON

PROJECT PIT.22.7136

LAST EDIT: 23 Mar 23 10:47AM MJV-CGP-10-0304-RB.dwg

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	LAF	02/09/12	JOB NO.	009963.001	DWG. NO.	MJV-CGP-10-0304
6	REVISED PER PHA REDLINES	RCA	KBK	JMM	09/02/22							
5	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22							
4	AS-BUILT	CNH	KRE	BMS	08/25/15							
3	REV FOR MOC 09242014	KJR	KC	CB	04/08/15							
2	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14							
1	ISSUED FOR CONSTRUCTION - VRU & TANKS	SS	CG	JD	11/07/13							
0	CNX AS-BUILTS	PH	BS	AZ	06/21/13							



MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
CONDENSATE SURGE DRUM &
CONDENSATE BOOSTER PUMPS

DESIGN PRESSURE: 1200 PSIG @ 250°F
DISCHARGE PRESSURE: 450 PSIG @ 120°F
CAPACITY: 30 GPM
MOTOR: 10 HP
(2 x 100%)



CLIENT	—	—
APPROVED	—	—
CHECKED	—	—
DRAWN	LAF	02/09/12

PROJECT PIT.22.7136

MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
CONDENSATE EXPORT PUMPS

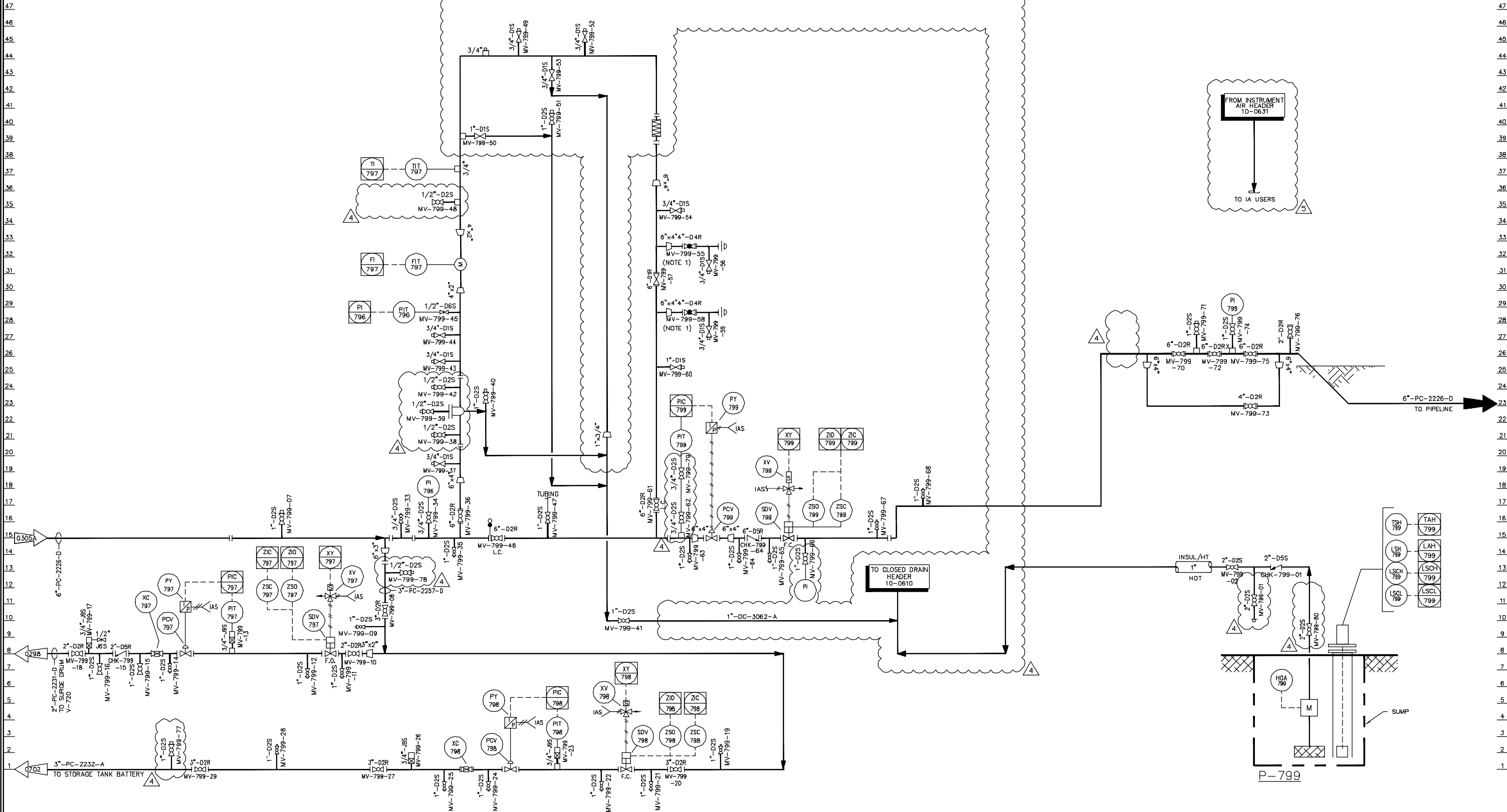
JOB NO.	009963.001	DWG. NO.	MJV-CGP-10-0305A
---------	------------	----------	------------------

CONDENSATE MEASUREMENT SKID

ELITE MICROMOTION CORIOLIS METER
SIZE 2-INCH ANSI 600

BASKETT STRAINER
SIZE 3-INCH ANSI 600
MAWP = 1480 PSIG @ 100 DEGREES F
1480 PSIG @ 20 DEGREES F

KOMAX STATIC MIXER
SIZE 3-INCH ANSI 600



NOTES:

1. ORBIT VALVE.



PITTSBURGH - PHILADELPHIA - CHICAGO - DETROIT - ST. LOUIS - HOUSTON

PROJECT PIT.22.7136

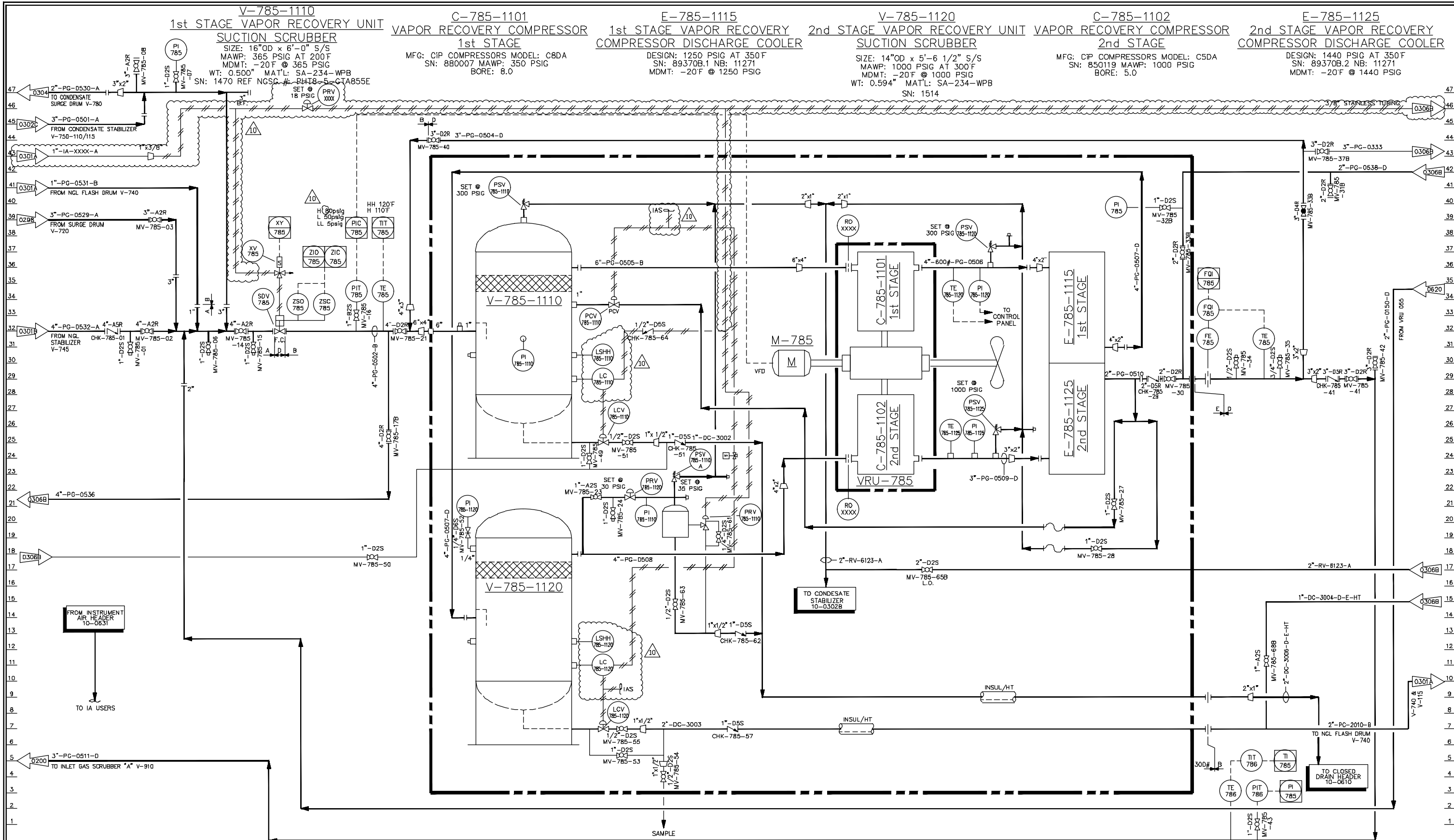
REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	AD
4	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22		
3	MOC #05172017	BMS	CB	BMS	7/12/17		
2	AS-BUILT DRAWING	RG	KE	BS	2/17/16		
1	REMOVED PRESSURE CONTROLLER SETPOINTS	SS	EH	JC	04/18/14		
0	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14		

CLIENT	—	—
APPROVED	JD	03/11/14
CHECKED	JC	03/11/14
DRAWN	AD	09/19/12



MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
CONDENSATE MEASUREMENT SKID

JOB NO. 009963.001 DWG. NO. MJV-CGP-10-0305B



NOTES:

1. THESE INSTRUMENTS AND VALVES ARE SPECIFIED BY AEC AND PURCHASED BY CONSOL.



PITTSBURGH - PHILADELPHIA - CHICAGO - DETROIT - ST. LOUIS - HOUSTON

PROJECT PIT.22.7136

M-785
DRIVE MOTOR
MFG: BALDOR-RELIANCE 3-PHASE CONT. DUTY
150 HP; 165 AMP; 1785 RPM; 460 V; 60 Hz; SF=1.15
PF: 88.5; SN S9082690-001

V-785-1130
DAY TANK
CAPACITY: 30 GAL

VRU-785

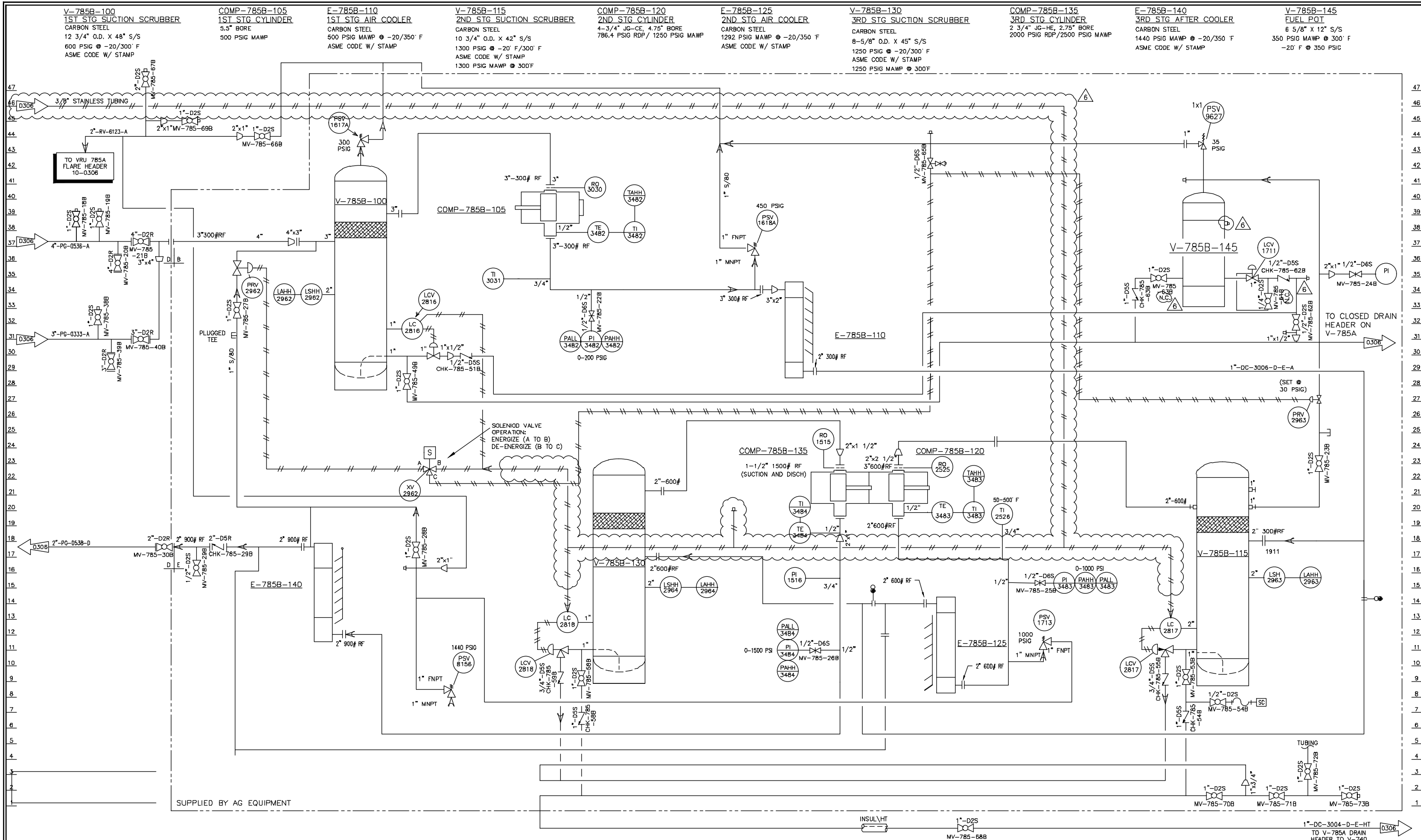
10	AS-BUILT REDLINES	KBK	RCA	JMM	04/12/24
9	REVISED PER PHA REDLINES	RCA	KBK	JMM	08/02/22
8	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22
7	ADDITION OF VRU-785C	BMS	CB	BMS	04/12/17
6	AS BUILTS	BMS	KE	BMS	11/10/15
5	REVISED FOR M.O.C. 07012015	KR	KC	CB	07/20/15
4	REVISED FOR M.O.C. 10012014	KR	KC	KC	04/06/15
3	AS BUILT	KK	BM	BS	04/01/15
2	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14
1	ISSUED FOR CONSTRUCTION - VRU & TANKS	SS	CC	JD	11/07/13
0	CNX AS-BUILTS	PH	BS	AZ	06/21/13
REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE

CLIENT	-	-
APPROVED	-	-
CHECKED	-	-
DRAWN	LAF	02/09/12



MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
VAPOR RECOVERY UNIT

JOB NO. 009963.001 DWG. NO. MJV-CGP-10-0306



PITTSBURGH - PHILADELPHIA - CHICAGO - DETROIT - ST. LOUIS - HOUSTON

PROJECT PIT.22.7136

LAST EDIT: 10 Apr 24 3:51PM MJV-CGP-10-0306B-R6.dwg

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	CHECKED	DATE
6	AS-BUILT REDLINES	KBK	RCA	JMM	04/12/24			
5	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22			
4	ADDITION OF VRU-785C	BMS	CB	BMS	05/11/17			
3	AS-BUILTS	BMS	BMS	CB	09/07/16			
2	AS-BUILT	CNH	KRE	BMS	08/25/15			
1	REVISED FOR M.O.C. 10011214	KR	KC	KC	04/06/15			
0	AS BUILT	KK	BM	BS	04/01/15			



MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
VAPOR RECOVERY UNIT

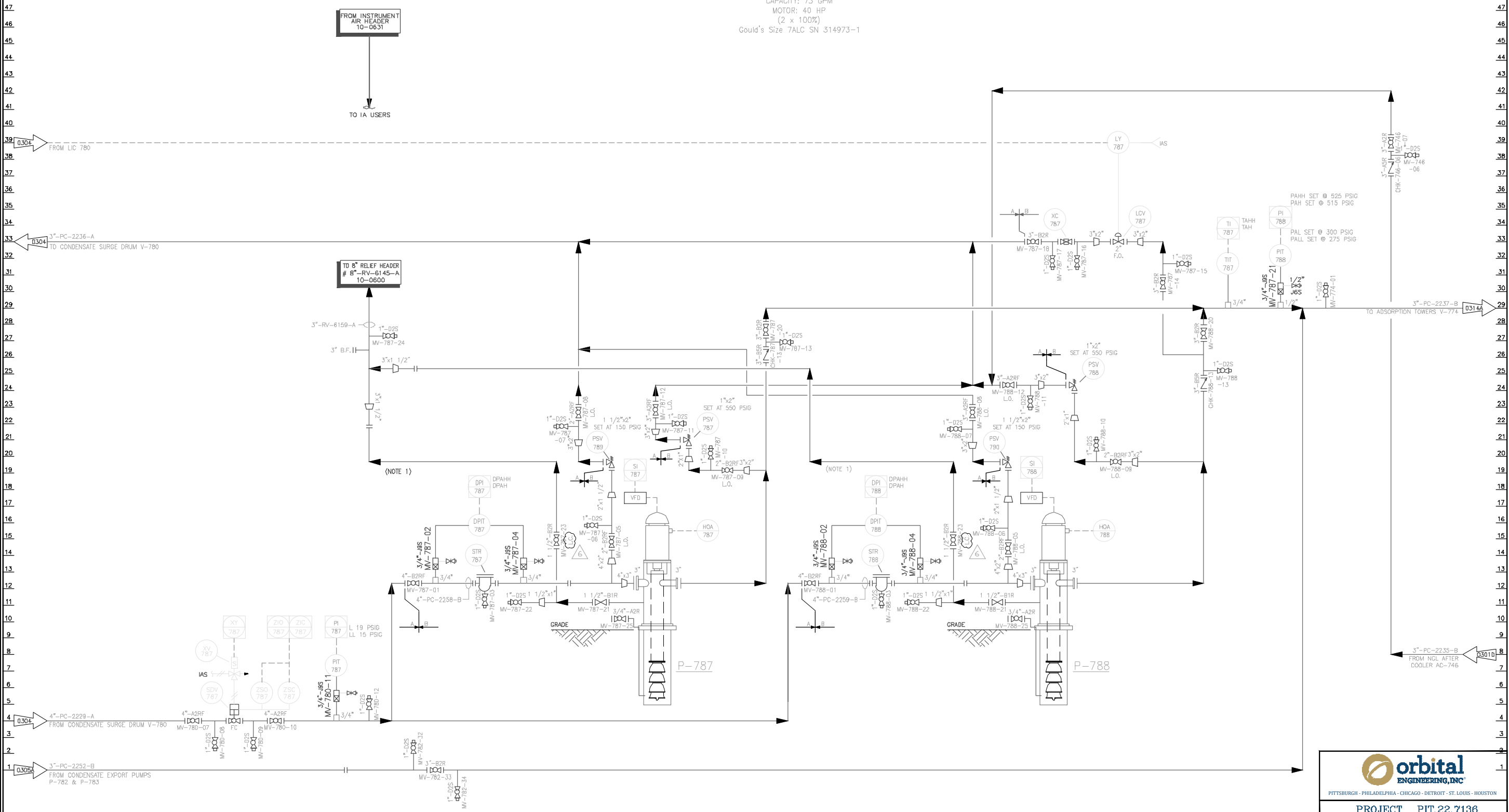
JOB NO. 009963.001 DWG. NO. MJV-CGP-10-0306B



LAST EDIT: 23 Mar 23 11:53AM MJV-CGP-10-0306C-R1.dwg

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

P-787 & P-788
CONDENSATE EXPORT PUMPS No. 2
DESIGN (SUCTION): 150 PSIG @ 150' F
DESIGN (DISCHARGE): 721.5 PSIG @ 150' F
DISCHARGE PRESSURE: 485 PSIG
CAPACITY: 73 GPM
MOTOR: 40 HP
(2 x 100%)
Gould's Size 7ALC SN 314973-1



- NOTES:
- ANTI-CAVITATION VENT LINE SHOULD BE ROUTED SO THAT NO LIQUID POCKETS EXIST.
 - ALL INSTRUMENTS AND VALVES ON THIS P&ID ARE SPECIFIED BY AEC AND PURCHASED BY CONSOL.
 - THE VFDs FOR PUMPS P-787 AND P-788 WILL BE PROGRAMMED TO RAMP UP THE PUMPS TO FULL SPEED AT STARTUP.
 - SDV-787 MUST BE OPEN (ZSD-787 ACTIVE) TO START PUMP, P-787 OR P-788.



PROJECT PIT.22.7136



MARCELLUS SHALE DEVELOPMENT
MAJORSVILLE CGP
PIPING & INSTRUMENTATION DIAGRAM
CONDENSATE EXPORT PUMPS No. 2

REV.	DESCRIPTION	BY	CHK'D	APP'D	DATE	DRAWN	PH	03/11/14
6	AS-BUILT REDLINES	KBK	RCA	JMM	04/12/24			
5	REVISED PER PHA REDLINES	RCA	KBK	JMM	09/02/22			
4	AS-BUILT FOR PHA	RCA	KBK	JMM	04/01/22			
3	REVISED FOR PUMP P-787 & P-788 DATA	AZ	AZ		10/29/18			
2	REVISED FOR MOC 06302015A	CNH	KRE	BMS	08/25/15			
1	REVISED FOR MOC 10162014	KJR	KC	CB	04/08/15			
0	ISSUED FOR CONSTRUCTION	PH	JC	JD	03/11/14			