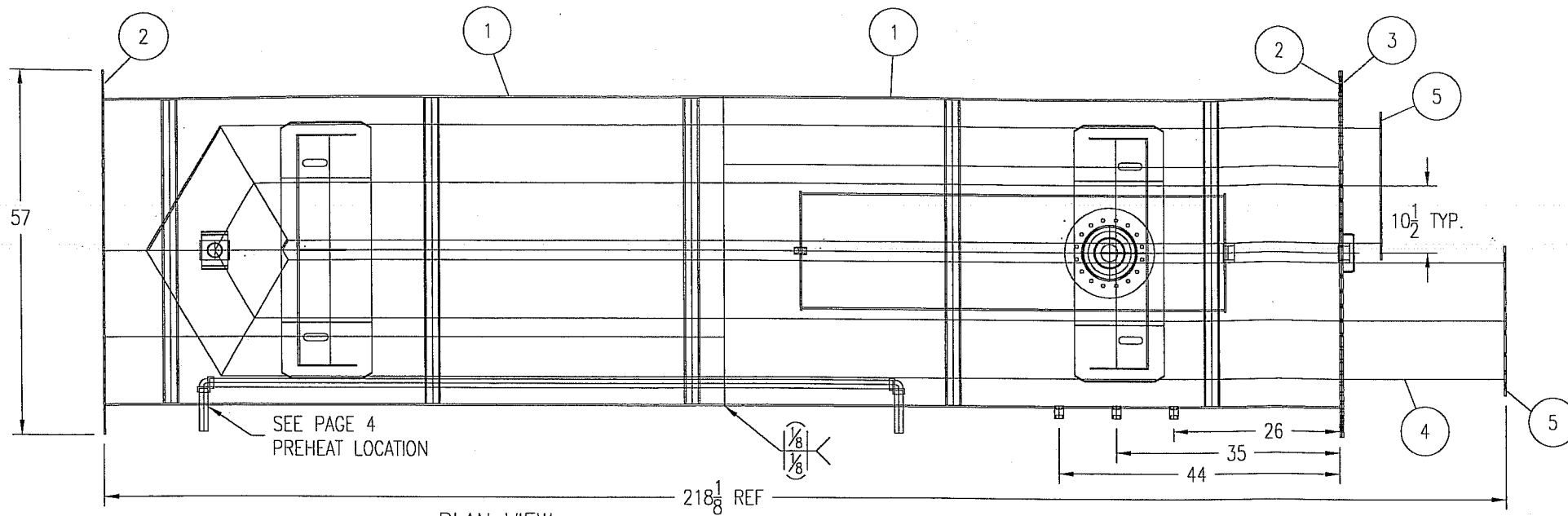


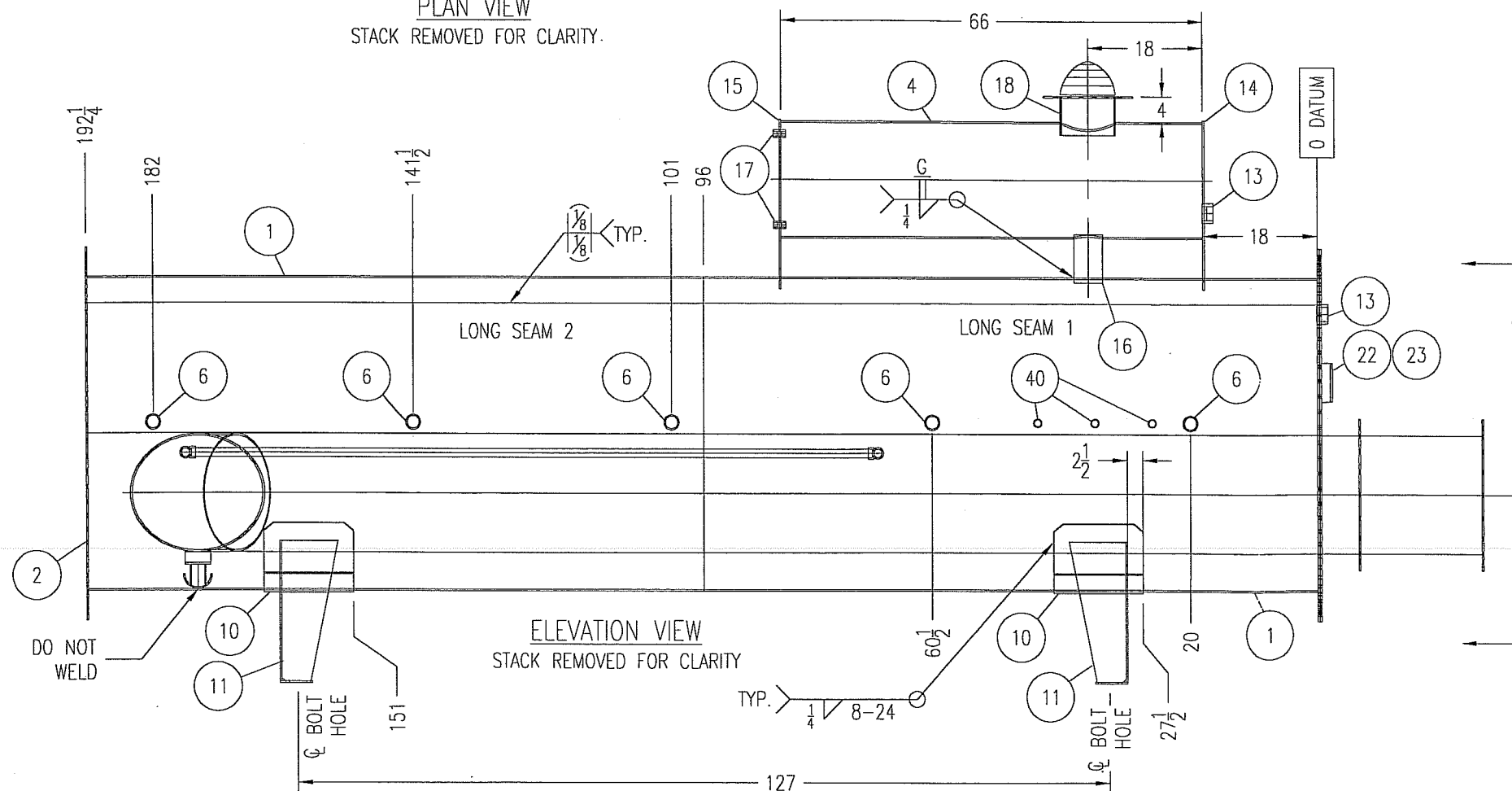
ITEM	WO NUMBER	SERIAL NUMBER	WELL SITE LSD
1	06276	NWP-1559	b-43-B/93-P-9
2	06277	NWP-1560	a-3-A/93-P-9
3	06278	NWP-1561	c-3-H/93-P-9
4	06279	NWP-1562	d-40-A/93-P-9
5	06280	NWP-1563	d-11-B/93-P-9
6	06281	NWP-1564	b-93-A/93-P-9



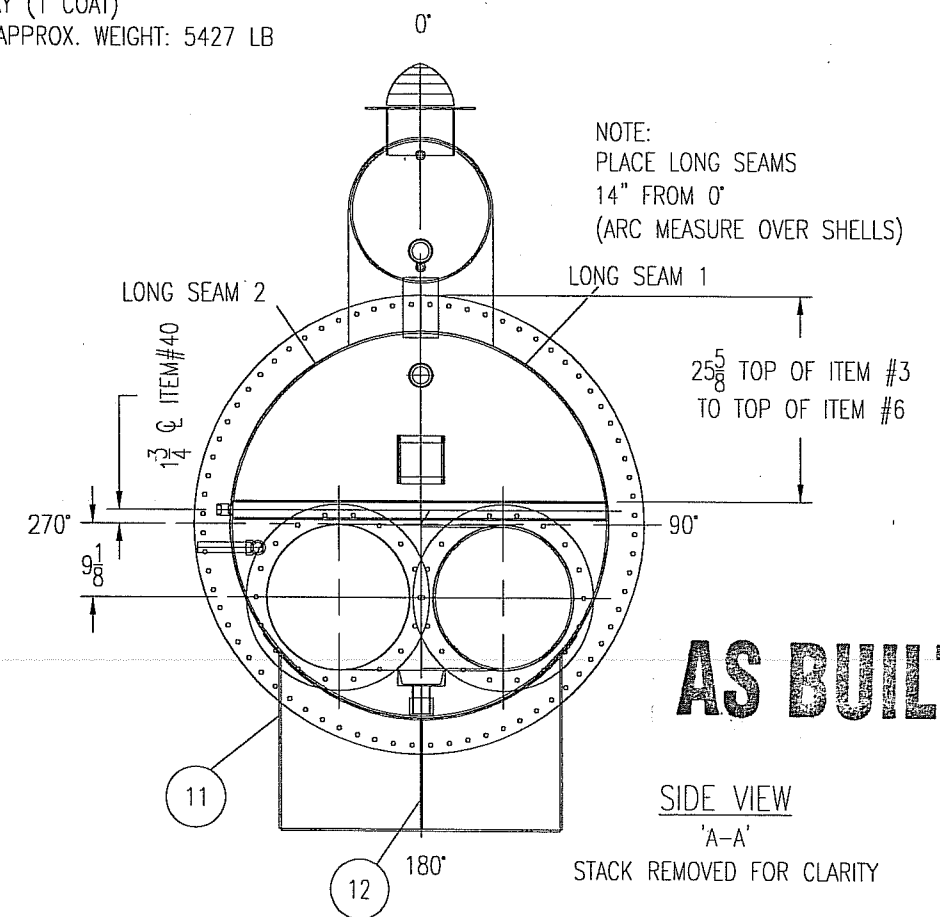
PLAN VIEW
STACK REMOVED FOR CLARITY.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
2. ALL DIMENSIONS TO HAVE A TOLERANCE OF $\pm \frac{1}{8}$ " UNLESS OTHERWISE SPECIFIED
3. FLANGE BOLT HOLES TO STRADDLE CENTER LINES
4. ALL WELDS TO BE $\frac{1}{4}$ " CONTINUOUS FILLET WELDS UNLESS OTHERWISE NOTED
5. SURFACE PREPARATION: BRUSH SAND BLAST
6. PAINT: CLOVERDALE CLOVACOAT 300 EPOXY WARM GRAY (1 COAT)
7. APPROX. WEIGHT: 5427 LB



ELEVATION VIEW
STACK REMOVED FOR CLARITY



AS BUILT

SIDE VIEW
'A-A'

STACK REMOVED FOR CLARITY

NWP-1559-41	PREHEAT LINE						
NWP-1559-3	SKID						
NWP-1559-2	COIL						
3NWP-1559-1	BILL OF MATERIALS						
NWP-1559-1	P&ID	1	2008.11.13.	KD	ETB	APP	ISSUED FOR CONSTRUCTION (ADDED TAGGING DETAILS)
NWP-1559	GENERAL ARRANGEMENT	0	2008.10.21	PNC	ETB	APP	ISSUED FOR CONSTRUCTION
DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP	

REFERENCE DRAWINGS

DRAWING REVISIONS

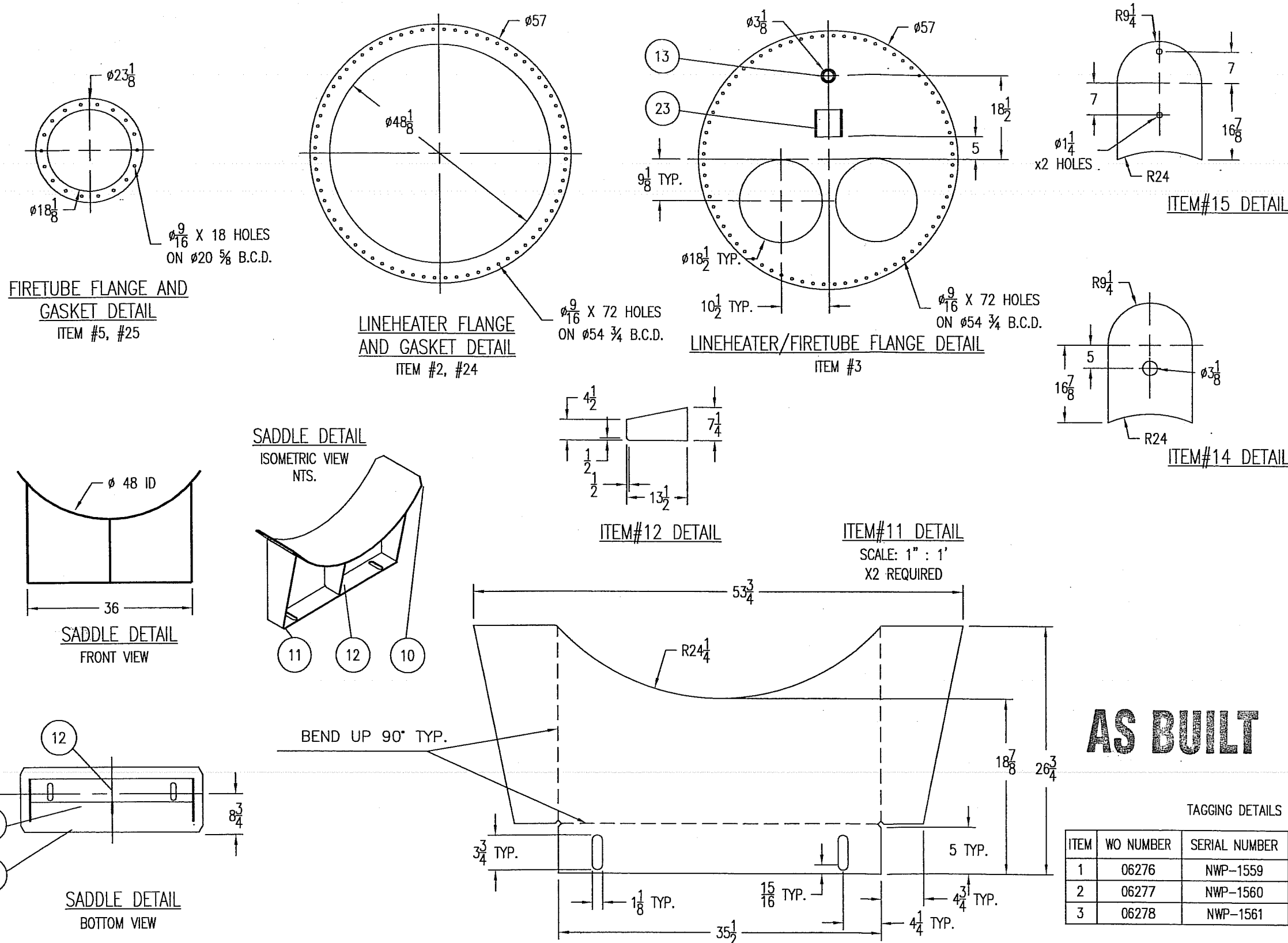
NWP
INDUSTRIES INC.
Tupperfield Supply
P.O. BOX 6280, INNISFAIR, AB T4G 1S9
PH (403) 227-4100 FAX (403) 227-4102
www.nwp.ca

Ø48" x 16' LINE HEATER
1,500,000 BTU/HR; W/18" FIRETUBE
Tupper Field Gathering System

THIS DRAWING IS PROPERTY OF NWP INDUSTRIES INC. AND MAY NOT BE REPRODUCED WITHOUT PERMISSION. THIS DRAWING MUST BE RETURNED UPON REQUEST.

SCALE 1/2" : 1'
SHEET 1/4

DWG NWP-1559-4 REV 1



BILL OF MATERIALS					
ITEM	QTY.	DESCRIPTION	LENGTH (IN)	MATERIAL	PART#
1	2	1/4" PLATE ROLLED Ø 48" OD	96.00	SA-36	SOT
2	2	1/4" PLATE x Ø57" (SEE DETAIL)	-	SA-36	CNC
3	1	1/4" PLATE x Ø57" (SEE DETAIL)	-	SA-36	CNC
4	1	18" SCH 10 SMLS PIPE	720	SA-106B	SO
5	3	1/4" PL x Ø23 1/8" (SEE DETAIL)	-	SA-36	CNC
6	5	2" SCH 80 SMLS PIPE	47.3125	SA-106B	925711
7	1	2" SCH 80 SMLS PIPE	3.4375	SA-106B	925711
8	1	4" SCH STD ERW PIPE (CUT IN HALF)	3.00	SA-53	400062
9	1	C6 X 8.2 44W	4.00	44W	523004
10	2	1/4" PLATE x 14" ROLLED Ø 48" ID	46.625	SA-36	CNC
11	2	1/4" PLATE (SEE DETAIL)	-	SA-36	CNC
12	2	1/4" PLATE (SEE DETAIL)	-	SA-36	CNC
13	2	2"-3000# HALF COUPLING THR	-	SA-105	807835
14	1	1/4" PLATE (SEE DETAIL)	-	SA-36	CNC
15	1	1/4" PLATE (SEE DETAIL)	-	SA-36	CNC
16	1	4" SCH STD ERW PIPE	7.5	SA-53	400062
17	2	1/2"-3000# HALF COUPLING	-	SA-105	080288
18	1	THIEF HATCH ASSEMBLY	-	-	732147
	1	THIEF HATCH GASKET	-	-	174096
	1	THIEF HATCH BASE	-	-	223542
19	1	LIFT LUG	-	SA-36	793985
20	1	4" REC THR API 5LB COUPLING	-	SA-105	717224
21	1	4" M.L. 150 PSI THR (PLUG)	-	SA-105	876585
22	1	TANK NAME PLATE	-	SA 36	293652
23	1	CHANNEL 3/16" X 1 1/2" X 6"	-	SA 36	144448
24	2	GASKET 1/8" X 57" OD X 48 1/8" ID	-	-	SO
25	2	GASKET 1/8" X 23 1/8" OD X 18 1/8" ID	-	-	SO
26	2	1" X 3" LONG GRADE 8 BOLT	-	-	SO
27	2	1" GRADE 8 NUTS	-	-	SO
28	2	1" LOCK WASHERS	-	-	SO
29	4	1" FLAT WASHERS	-	-	SO
30	192	BOLT, PLATED GR 2 OR BETTER, 1/2" X 1 1/4" HEX HEAD	-	-	211508
31	192	NUT, HEX, PLATED GR 2 OR BETTER, 1/2"	-	-	484536

TAGGING DETAILS			
ITEM	WO NUMBER	SERIAL NUMBER	WELL SITE LSD
1	06276	NWP-1559	b-43-B/93-P-9
2	06277	NWP-1560	a-3-A/93-P-9
3	06278	NWP-1561	c-3-H/93-P-9

ITEM	WO NUMBER	SERIAL NUMBER	WELL SITE LSD
4	06279	NWP-1562	d-40-A/93-P-9
5	06280	NWP-1563	d-11-B/93-P-9
6	06281	NWP-1564	b-93-A/93-P-9

NWP-1559-41	PREHEAT LINE						
NWP-1559-3	SKID						
NWP-1559-2	COIL						
BNWP-1559-1	BILL OF MATERIALS						
NWP-1559-1	P&ID	1	2008.11.13.	KD	EB	SA	ISSUED FOR CONSTRUCTION (ADDED TAGGING DETAILS)
NWP-1559	GENERAL ARRANGEMENT	0	2008.10.21	PNC	EB	SA	ISSUED FOR CONSTRUCTION
DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP	
REFERENCE DRAWINGS				DRAWING REVISIONS			

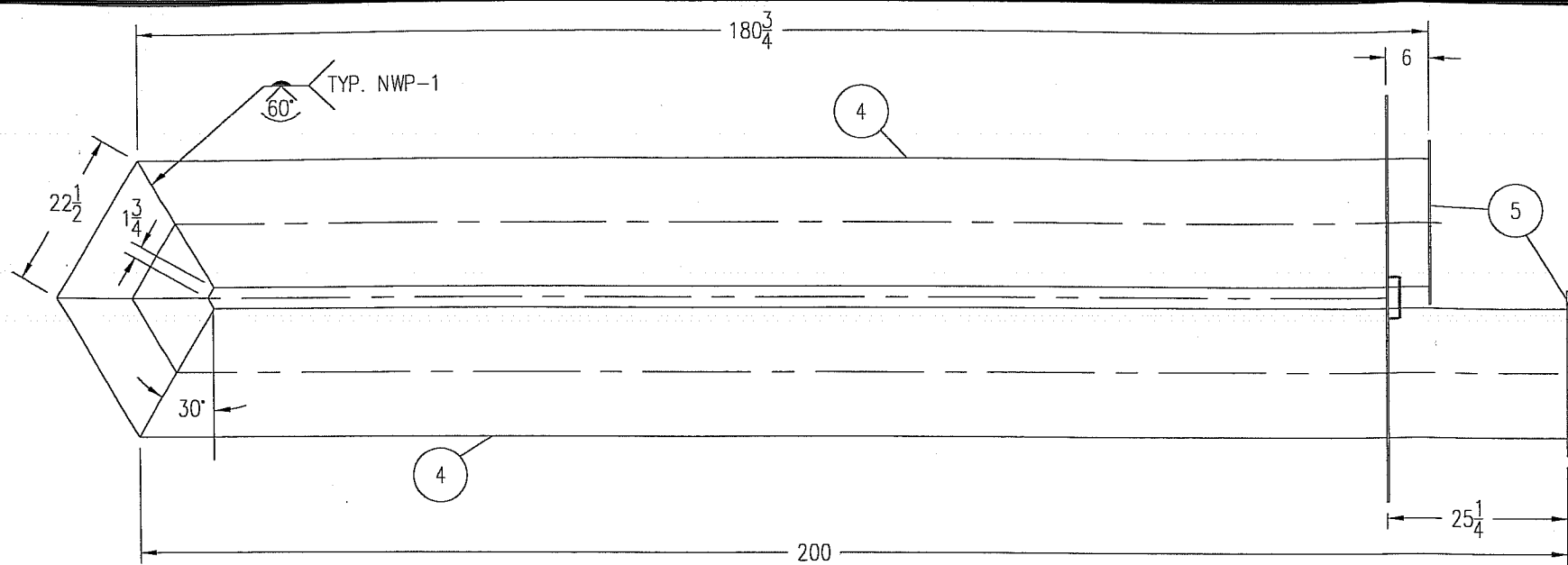
P.O. BOX 6280, INNISFAIL, AB T4G 1S9
PH (403) 227-4100 FAX (403) 227-4102
www.nwp.ca

THIS DRAWING IS PROPERTY OF NWP INDUSTRIES INC. AND MAY NOT BE REPRODUCED WITHOUT PERMISSION. THIS DRAWING MUST BE RETURNED UPON REQUEST.

SCALE 1/2":1'; 1":1' for #11

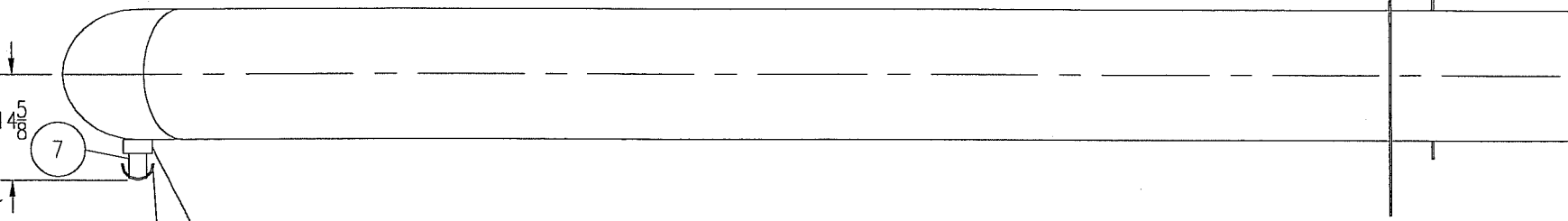
SHEET 2/4

DWG NWP-1559-4 REV 1

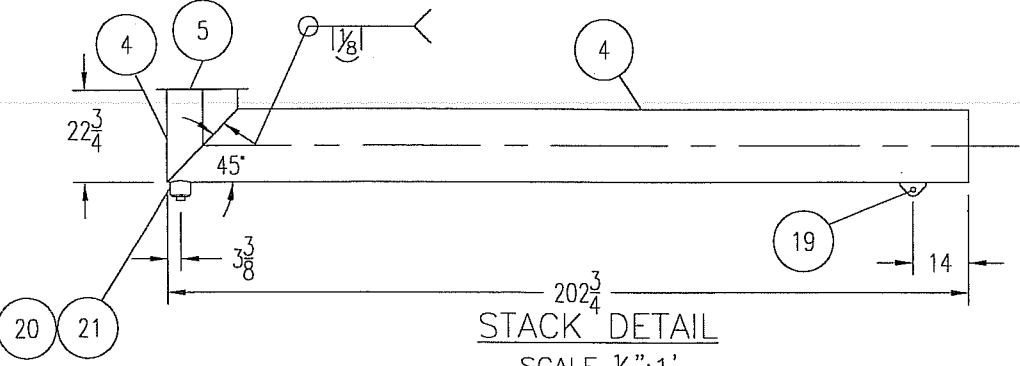


FIRETUBE DETAIL
PLAN VIEW
SCALE: 1/2":1'

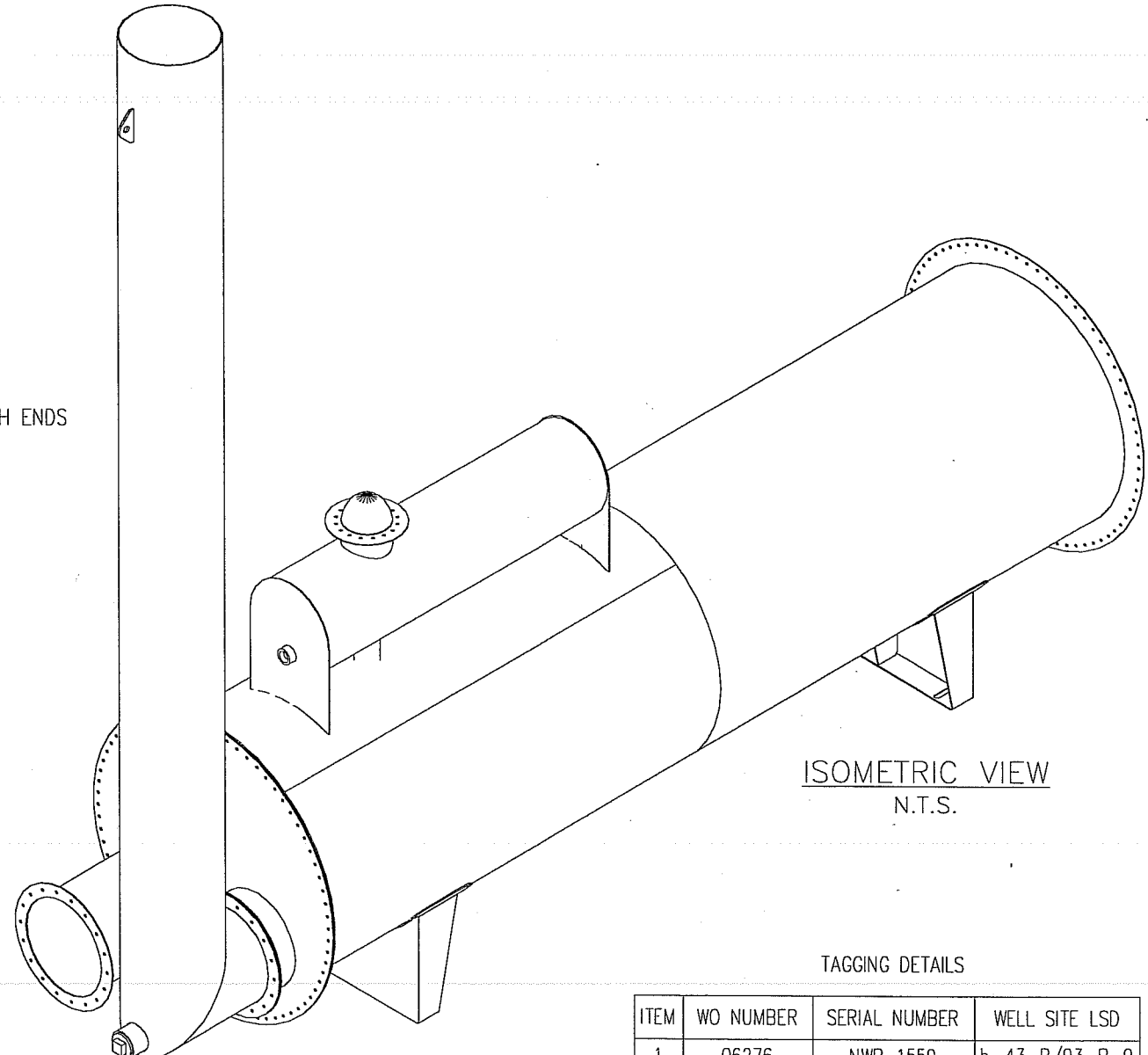
ASSEMBLE ITEM#3
BEFORE WELDING ITEM#5



FIRETUBE DETAIL
ELEVATION VIEW
SCALE: 1/2":1'



STACK DETAIL
SCALE 1/4":1'



TAGGING DETAILS

ITEM	WO NUMBER	SERIAL NUMBER	WELL SITE LSD
1	06276	NWP-1559	b-43-B/93-P-9
2	06277	NWP-1560	a-3-A/93-P-9
3	06278	NWP-1561	c-3-H/93-P-9
4	06279	NWP-1562	d-40-A/93-P-9
5	06280	NWP-1563	d-11-B/93-P-9
6	06281	NWP-1564	b-93-A/93-P-9

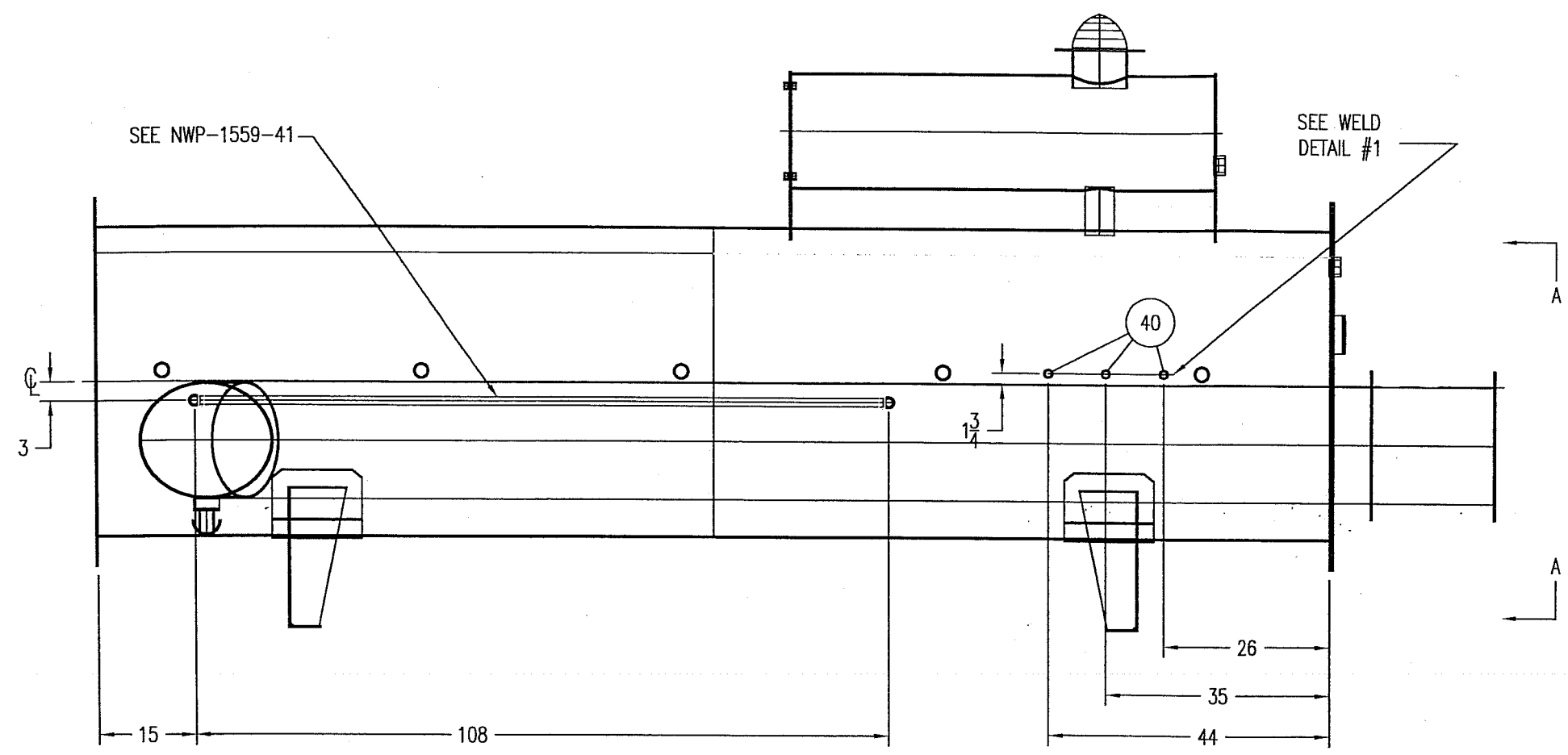
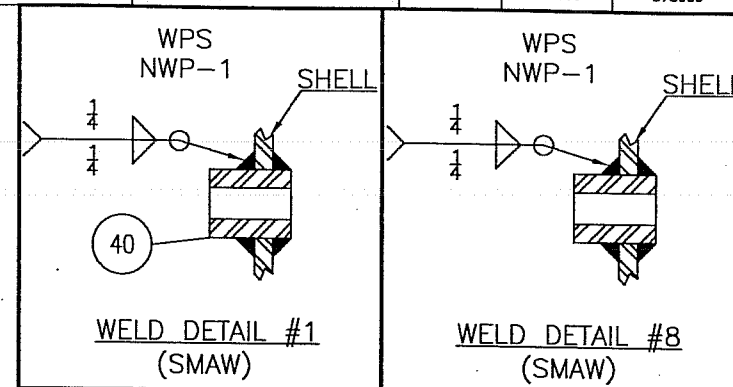
AS BUILT

NWP-1559-41	PREHEAT LINE						
NWP-1559-3	SKID						
NWP-1559-2	COIL						
NWP-1559-1	BILL OF MATERIALS						
NWP-1559-1	P&ID	1	2008.11.13.	KD	EB	41	ISSUED FOR CONSTRUCTION (ADDED TAGGING DETAILS)
NWP-1559	GENERAL ARRANGEMENT	0	2008.10.21	PNC	EB	50	ISSUED FOR CONSTRUCTION
DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP	

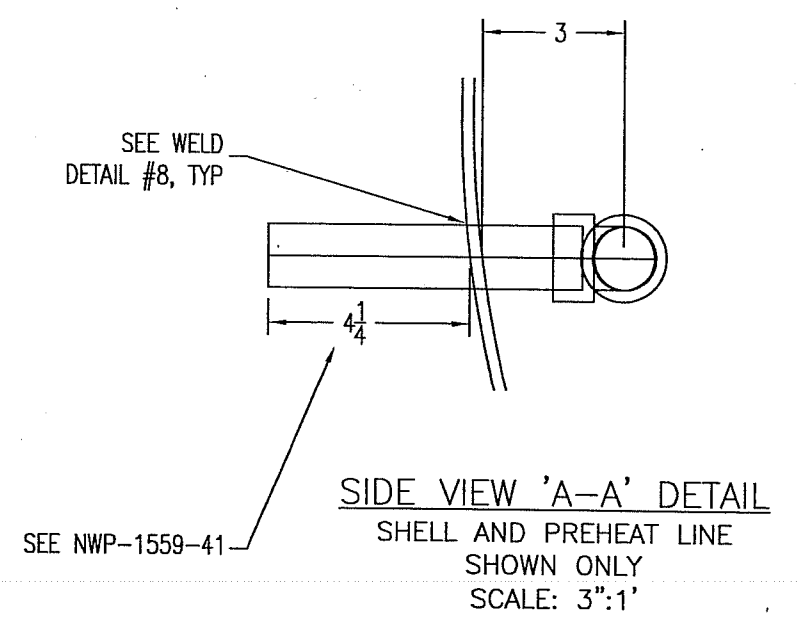
NWP INDUSTRIES INC.
Total Field Supply
P.O. BOX 6280, INNISFAIR, AB T4G 1S9
PH (403) 227-4100 FAX (403) 227-4102
www.nwp.ca

ø48" x 16' LINE HEATER
1,500,000 BTU/HR; w/18" FIRETUBE
Tupper Field Gathering System

BILL OF MATERIALS						
ITEM	QTY.	SERVICE	DESCRIPTION	LENGTH (IN)	MATERIAL	PART#
40	3	TI, TC, TSHH	COUPLING 3/4" FS 3000PSI THREADED	-	SA-105	878009



ELEVATION VIEW
STACK REMOVED FOR CLARITY



TAGGING DETAILS

ITEM	WO NUMBER	SERIAL NUMBER	WELL SITE LSD
1	06276	NWP-1559	b-43-B/93-P-9
2	06277	NWP-1560	a-3-A/93-P-9
3	06278	NWP-1561	c-3-H/93-P-9
4	06279	NWP-1562	d-40-A/93-P-9
5	06280	NWP-1563	d-11-B/93-P-9
6	06281	NWP-1564	b-93-A/93-P-9

AS BUILT

NWP-1559-41	PREHEAT LINE						
NWP-1559-3	SKID						
NWP-1559-2	COIL						
BNWP-1559-1	BILL OF MATERIALS						
NWP-1559-1	P&ID	1	2008.11.13.	KD	RB	ISSUED FOR CONSTRUCTION (ADDED TAGGING DETAILS)	
NWP-1559	GENERAL ARRANGEMENT	0	2008.10.21	PNC		ISSUED FOR CONSTRUCTION	
DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP	
REFERENCE DRAWINGS		DRAWING REVISIONS					

P.O. BOX 6280, INNISFAIR, AB T4G 1S9
PH (403) 227-4100 FAX (403) 227-4102
www.nwp.ca

ø48" x 16' LINE HEATER
1,500,000 BTU/HR; w/18" FIRETUBE
Tupper Field Gathering System

SCALE 1/2" : 1'

DWG NWP-1559-41 REV 1

THIS DRAWING IS PROPERTY OF NWP INDUSTRIES INC. AND MAY NOT BE REPRODUCED WITHOUT PERMISSION. THIS DRAWING MUST BE RETURNED UPON REQUEST.