

INSULATION CHART				
LOCATION	INSULATION THICKNESS	REQUIRED LAYERS		
		TOP	SIDES	BOTTOM
COLUMN E	1"	--	--	--
	2"	3	3	5
COLUMN F	1"	--	--	--
	2"	--	3	--
COLUMN H	1"	--	--	--
	2"	--	5	--
COLUMN J	1"	--	--	--
	2"	3	5	2
COLUMN M	1"	1	1	--
	2"	1	1	2

DETAIL
SCALE : 3/4" = 1'-0"

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DETAIL
SCALE : 1 1/2" = 1'-0"

DETAIL
SCALE : 1 1/2" = 1'-0"

MATERIAL LIST - (BY FABRICATOR)				
PART NO.	QTY.	DESCRIPTION	MAT'L	
PROVIDE APPROX. SQ.FT. SPARE MATERIAL				
S03	60	SO. FT. OF SHEET, 16 GA.(IN TWO PIECES)	A240 TP409	
S04	30	SO. FT. OF SHEET, 16 GA.(IN ONE PIECE)	A240 TP309S	
S05	60	SO. FT. OF SHEET, 14 GA.(IN TWO PIECES)	A-1011	
S06	30	SO. FT. OF SHEET, 12 GA.(IN ONE PIECE)	A240 TP409	
S07	30	SO. FT. OF SHEET, 12 GA.(IN ONE PIECE)	A240 TP309S	
S08	30	SO. FT. OF SHEET, 12 GA.(IN ONE PIECE)	A-1011	

MATERIAL LIST - (BY VPI)				
PART NO.	QTY.	DESCRIPTION	MAT'L	
01	100	SO. FT. OF INSULATION, 1" THICK	SUPERWOOD PLUS	
02	875	SO. FT. OF INSULATION, 2" THICK	SUPERWOOD PLUS	

PART AND ASSEMBLY NUMBERS TO HAVE THE PREFIX "ER100".
FOR EXAMPLE: PART NUMBER "01" WOULD BE "ER10001";
ASSEMBLY NUMBER "101" WOULD BE "ER100101".

- GENERAL NOTES:**
- REMOVE NUT & WASHER TO INSTALL LINER PANELS THEN REUSE SAME NUT & WASHER.
 - EXISTING INSULATION TO BE TRIMMED AT JOBSITE AT TIME OF INSTALLATION TO A CLEAN STRAIGHT EDGE AND STAGGERED TO PROVIDE LAYERED FIT OF INSULATION.
 - FIELD INSTALLED INSULATION TO BE CUT 1/2"(13mm) MIN. OVERSIZED FOR A TIGHT FIT OF LAYERS. ALL INSULATION SEAMS TO BE OFFSET WITHOUT VOIDS. PLACE THE SAME NUMBER OF LAYERS AT EACH JOINT AS SHOWN IN CHART.
 - ALL FIELD INSTALLED SLOTTED LINERS TO BE LAPPED IN THE DIRECTION OF GAS FLOW UNDER THE DOWNSTREAM SIDE OF SHOP INSTALLED LINERS WITH THE SLOTTED EDGE OF LINER UPSTREAM BETWEEN LINER & BOTTOM WASHER.
 - PLACEMENT OF TOP WASHERS AND NUTS: PLACE ONE WASHER ON TOP SIDE OF LINER PANEL AND ONE NUT ON TOP OF THE WASHER. NUTS TO BE FULLY TIGHTENED AND THEN BACKED OFF 1/2 TURN TO ENSURE PROPER COMPRESSION OF THE INSULATION AND TO ALLOW LINER TO EXPAND DURING OPERATION. THEN TACK WELD NUTS TO THREADS OF THE STUD TO PREVENT NUT FROM LOOSENING. WASHERS MAY BE TRIMMED WHERE NECESSARY. TACK WELD TOP WASHER TO NUT ON TWO (2) FLATS 180° APART WITH TACK WELD A MINIMUM OF 1/8" HIGH TO PREVENT WASHER FROM SPINNING.
 - DO NOT TACK WELD NUTS TO WASHERS OR STUDS UNTIL ALL INSULATION AND LINERS HAVE BEEN INSTALLED. FIELD TO VERIFY ALL NUTS AND WASHERS ARE WELDED.
 - SEE DETAIL DRAWINGS FOR LINER PANEL LAYOUT. LINER PANELS MAY REQUIRE FIELD MODIFICATION AT TIME OF INSTALLATION.
 - FILL ALL VOIDS AT BUMPER SUPPORT BRACKET OPENINGS WITH INSULATION. THEN INSTALL COVER PLATE(S) WITH FIRM CONTACT AGAINST LINER PANELS BEFORE WELDING.
 - IF GAP EXISTS, ADJUST LINERS TO CLOSE. IF GAP DOES NOT CLOSE, FILL WITH INSULATION AND FIELD INSTALL STRIP LINER TACK WELDED ONE SIDE, TYPICAL FOR TOP, BOTTOM AND SIDES THROUGHOUT HRSG WHERE NECESSARY.
 - NO PAINTING OR COATING REQUIRED FOR ITEMS SHOWN ON THIS DRAWING.
 - QUANTITIES SHOWN ARE FOR (1) ONE UNIT
(1) ONE UNIT FOR MIDDLETOWN PROJECT
(1) ONE UNIT FOR KINGS MOUNTAIN PROJECT.

- REFERENCE DRAWINGS:**
- V17494-ERND-0001 - FIELD CONNECTIONS - LOCATION MAP
 - V17494-ERND-0101 - FIELD CONNECTIONS - FIELD INSTALLED INSULATION & LINERS
 - V17494-ERND-0102 - FIELD CONNECTIONS - FIELD INSTALLED INSULATION & LINERS DETAILS
 - V17494-ERND-0103 - FIELD CONNECTIONS - FIELD INSTALLED INSULATION & LINERS DETAILS
 - V17494-ERND-0104 - FIELD CONNECTIONS - FIELD INSTALLED INSULATION & LINERS DETAILS
 - V17494-ERND-0105 - FIELD CONNECTIONS - FIELD INSTALLED INSULATION & LINERS DETAILS

Rev.	Description	Date	Drawn	Chkd.	Appr.
01	REVISED PARTS, ADDED VIEW	20-MAY-16	JP	SRJ	---
00	FIRST ISSUE	13-MAY-16	JP	SRJ	---

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**MIDDLETOWN ENERGY CENTER
and
KINGS MOUNTAIN ENERGY CENTER
for
NTE ENERGY and GEMMA POWER SYSTEMS**

VOGT POWER PROJECTS V17494 & V17495

Title
**FIELD CONNECTIONS-
FIELD INSTALLED INSULATION & LINERS
"ER100"**

Vogt Power International
13551 Triton Park Blvd
Suite 2000
Louisville, Ky. 40223 USA
www.VogtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	V17494-ERND-0100	01