



MATERIAL LIST - FABRICATION			
PART NO.	QTY.	DESCRIPTION	MAT'L SPEC.
* 11	40	SHIM PLATE, 6"x10 1/2"x1/2" THK.	A36
* 12	12	PLATE, 4 1/2"x4 1/2"x1/2" THK.	A36
* 14	80	SHIM PLATE, 7 3/8"x9"x1/8" THK. (DETAIL-107)	A36
* 16	4	PLATE, 1/4" THK. x 9" x 11 3/16" LG.	A36
* 18	38	PLATE, 1/2" THK. x 9" x 5" (DETAIL-120)	A36
* 20	132	FLAT BAR, 1/2" THK. x 3" WD. x 9" LG.	A36
21	12	PLATE, 3/16" THK. x 22" x 7" - DETAIL 121	A36
* 22	20	PLATE, 1/2" THK. x 10 1/2" X 11 1/2"	A36
* 23	18	PLATE, 1/4" THK. x 4 1/8" DIA.	A36
24	18	1/2"-13 UNC T.P.I. STUD	A479-TP304
25	36	1/2" DIA. REGULAR NUT	F594 TP304
26	18	SHEET, 16 GA. x 7 1/4" O.D. x 3/16" I.D.	A240 TP309S

PROVIDE APPROX. SQ.FT. SPARE MATERIAL			
S1	30	SQ.FT. - PLATE, 1/2" THK. (SINGLE PIECE)	A36
S2	30	SQ.FT. - PLATE, 1/4" THK. (SINGLE PIECE)	A36

MATERIAL LIST - ERECTION (BY VPI)			
PART NO.	QTY.	DESCRIPTION	MAT'L SPEC.
03	296	LIN. FT. OF FLAT BAR, 1/4" THK. x 2" W.	A36
04	15	LIN. FT. OF FLAT BAR, 1/2" THK. x 2" W.	A36
05	140	LIN. FT. OF ANGLE, L3x3x1/4" THK.	A36
06	148	HEX HEAD BOLT, 3/4" DIA.-10UNC x 3 1/4" LG.	A325
07	68	HEX HEAD BOLT, 3/4" DIA.-10UNC x 3" LG.	A325
08	296	HEAVY HEX NUT, 3/4" DIA.-10UNC	A563 Gr.0
09	160	HARDENED WASHER, 3/4" DIA.	F436
10	40	ALL THREAD ROD, 3/4" DIA.-10UNC x 1'-11" LG.	A36

PART & ASSY NUMBERS ARE TO HAVE THE PREFIX OF "ER15" FOR EXAMPLE, PART NUMBER "01" WOULD BE "ER1501", ASSY NUMBER "201" WOULD BE "ER15201".

- GENERAL NOTES:**
- ALL GAS PATH SEAM TO BE SEAL WELDED.
 - ALL FLAT BAR AND ANGLE TO BE CUT IN THE FIELD.
 - AREA TO BE FILLED WITH INSULATION AND COVERED WITH LINER PANELS (V17494-ERN-0100).
 - AFTER TOP SUPPORTING OF MODULE BOX IS COMPLETED, USE THREADED ROD TO PUT TENSION ON CENTER OF TOP CASING BEFORE REMOVAL OF SHIPPING STEEL. FINALIZE BY WELDING FLAT BARS IN PLACE.
 - PRIOR TO SETTING ADJACENT MODULE BOX, THE INSULATION SHALL BE INSPECTED. LINER BENDS TO BE IN CONSTANT PRESSURE AGAINST UPSTREAM MODULE BOX DUE TO ANGLE OF BENDS AND TACK WELD. IF GAP EXIST, FILL WITH INSULATION AND FIELD INSTALL STRIP LINER. TACK WELD ONE SIDE, TYP. THROUGHOUT HRSG WHERE NECESSARY. DO NOT WELD TO MORE THAN ONE (1) LINER PANEL.
 - JIS G3101-SS400 MAY BE SUBSTITUTED FOR A36 MATERIAL.
 - ALL WELDS P1-P1 UNLESS NOTED OTHERWISE.
 - * SURFACE PREP & COATING TO BE PER PAINT SYSTEM P1 & P2 ON V17494-EBNC-0001 PAINTING SPECIFICATION (WHERE INDICATED).
 - QUANTITIES SHOWN ARE FOR (1) ONE UNIT:
-(1) ONE UNIT REQUIRED FOR MIDDLETOWN PROJECT.
-(1) ONE UNIT REQUIRED FOR KINGS MOUNTAIN PROJECT.

- REFERENCE DRAWINGS:**
- V17494-ERN-0001 - FIELD CONNECTIONS - LOCATION MAP
 - V17494-ERN-0006 - FIELD CONNECTIONS - BOX & DUCT FIT-UP (ER15)
 - V17494-ERN-0007 - FIELD CONNECTIONS - BOX & DUCT FIT-UP (ER15)
 - V17494-ERN-0008 - FIELD CONNECTIONS - BOX & DUCT FIT-UP (ER15)

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Rev.	Description	Date	Drawn	Chkd.	Chkd.	Appr.
Revisions						

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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

3rd ANGLE PROJECTION
Scale: 1/2" = 1'-0"

FIELD CONNECTIONS -
BOX & DUCT FIT-UP (ER15)

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Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	V17494-ERN-0005	00