



MATERIAL LIST - FABRICATION			
PART NO.	QTY.	DESCRIPTION	MAT'L SPEC.
		N/A	

MATERIAL LIST - ERECTION (BY VPI)			
FIELD INSTALLED HARDWARE			
PART NO.	QTY.	DESCRIPTION	MAT'L SPEC.
20	288	HEX BOLT - 1" DIA. x 4" LG.	A490-X
21	288	HEAVY HEX NUT - 1" DIA.	A563-GR.DH
22	576	HARDENED WASHER - 1" DIA., 5/32" THK.	F436
PART NUMBERS ARE TO HAVE THE PREFIX OF "ER30" FOR EXAMPLE, "20"(PART NO.) WOULD BE "ER3020".			

- GENERAL NOTES:**
- A SPREADER BEAM IS REQUIRED WHEN LIFTING WITH THIS ASSEMBLY.
 - BOLT THREADS SHALL BE EXCLUDED FROM THE SHEAR PLANE. ALL BOLTS SHALL BE ASTM A490-X.
 - ASTM A490-X HIGH STRENGTH BOLTS SHALL BE TIGHTENED SNUG TIGHT.
 - ASTM A490-X HIGH STRENGTH BOLTS SHALL NOT BE REUSED FOR LIFTING AFTER REMOVAL.
 - ONE WASHER SHALL BE USED UNDER BOLT HEAD AND ONE UNDER NUT.
 - INSPECTION AND MAINTENANCE FOR REUSABLE HANDLING DEVICES IS PER ASME B30.20, SECTION 20-1.3 AND SECTION 20-1.5. A LOAD TEST OF 125% OF SPECIFIED CAPACITY HAS BEEN PERFORMED.
 - 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-ERND-0001 - FIELD CONNECTIONS LOCATION MAP
 - V17494-SPND-0004 - MODULE BOX LIFTING AND UPRIGHTING PROCEDURE

Rev.	Description	Date	Drawn	Chkd.	Chkd.	Appr.
00	FIRST ISSUE	26-FEB-16	DB	SRJ	--	FRY
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
FIELD CONNECTIONS
TOP LIFTING BEAM
INSTALLATION - ER30

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Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	V17494-ERND-0011	00