



230/26kV Brandy Branch T2 Substation Addition
 JEA
 Jacksonville, FL

Origination Date:
 Material List No: ML-5478
 Revision Number: 3
 Revision Date: 1/4/2019
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ITEM	QTY.	DESCRIPTION	MFG.	TYPE OR CAT. NO.
230KV GALVANIZED STEEL STRUCTURE				
A	6	230KV BUS SUPPORT STAND, 1Ø LOW, 20'-0" BUS HEIGHT	DIS-TRAN ST	APPX WT = 766 LBS EA
C	4	230KV BUS SUPPORT STAND, 3-PHASE, HIGH, 30'-0" BUS HEIGHT 11'-0" PHASE SPACING REF. 5262	DIS-TRAN ST	APPX WT = 2,399 LBS EA
D	6	230KV DISCONNECT SWITCH STAND, LOW 20'-0" BUS HEIGHT, 11'-0" PHASE SPACING	DIS-TRAN ST	APPX WT = 3,709 LBS EA
E	4	230KV BUS SUPPORT STAND, 1Ø HIGH, 30'-0" BUS HEIGHT REF. 5212	DIS-TRAN ST	APPX WT = 1,255 LBS EA
Ga	1	230KV P.T. STAND, 1Ø, 8'-0" STRUCT. HEIGHT REF. 5262 WITH JUNCTION BOX PROVISIONS	DIS-TRAN ST	APPX WT = 559 LBS EA
Gb	2	230KV P.T. STAND, 1Ø, 8'-0" STRUCT. HEIGHT REF. 5262 NO JUNCTION BOX	DIS-TRAN ST	APPX WT = 519 LBS EA
S18	1	230KV L.A./ POTHEAD STAND, 3-PHASE, 8'-6" STRUCTURE HEIGHT, 11'-0" PHASE SPACING	DIS-TRAN ST	APPX WT = 3,522 LBS EA
SP2	2	STATIC POLE 70'-0" ABOVE GROUND HEIGHT, 10' MAST PIPE, DIRECT EMBED, (1) WIRE	DIS-TRAN	APPX WT = 3,804 LBS EA
GP1	7	GROUND PLATFORM, 3'x4'	P&R METALS	
AB1	LOT	ANCHOR BOLTS & TEMPLATES W/ HARDWARE (PER 5478-502 REV A) (148) 1" X 2'-6" AB (2) FW & (5) HN (7) TP1 (22) TP2 (8) TP3 (100) 3/4" X 2' AB (2) FW & (5) HN (25) TP5 (12) 1-3/4" X 5' AB (2) FW & (5) HN (2) TP4 (24) 1" X 1'-6" AB (1) FW & (4) HN	T.F.	
EB	LOT	EQUIPMENT MOUNTING BOLTS (15) 1/2" X 2-1/2" A307 GRADE A HB (15) 1/2" A563 GRADE A HN (95) 5/8" X 1-1/4" A307 GRADE A HB (80) 5/8" X 2" A307 GRADE A HB (80) 3/4" BW (165) 5/8" F844 USS FW (80) 5/8" A563 GRADE A HN (20) 7/8" X 2-1/2" A307 GRADE A HB (20) 7/8" A563 GRADE A HN (20) M20 X 2.5 X50 METRIC HHB (20) M20 METRIC WASHER	T.F.	



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ITEM	QTY.	DESCRIPTION	MFG.	TYPE OR CAT. NO.
TB	LOT	S.S. TERMINAL BOLTS W/ HARDWARE (2F_1BW_1BHN) (8) *L2 1/2" X 1-1/2" (5) *M2 1/2" X 1-3/4" (5) *M4 1/2" X 1-3/4" (5) *N4 1/2" X 2" (15) *O4 1/2" X 2-1/4" (5) *P4 1/2" X 2-1/2" (40) *Q4 1/2" X 2-3/4" (15) *R4 1/2" X 3"	T.F.	
		230KV MAJOR EQUIPMENT		
1	4	230KV, 2000A, 900KV BIL, 3-PHASE GROUP OPERATED ALUM. VERTICAL BREAK SWITCH COMPLETE WITH: * TR-308 INSULATORS * ARCING HORNS * WORM GEAR OPERATOR	PASCOR ATL	230TTR8-AC-SPA
1A	1	230KV, 2000A, 900KV BIL, 3-PHASE GROUP OPERATED ALUM. VERTICAL BREAK SWITCH COMPLETE WITH: * TR-308 INSULATORS * ARCING HORNS * WORM GEAR OPERATOR * PROVISIONS FOR KIRK KEY	PASCOR ATL	230TTR8-AC-SPA
1B	1	230KV, 2000A, 900KV BIL, 3-PHASE GROUP OPERATED ALUM. VERTICAL BREAK SWITCH COMPLETE WITH: * TR-308 INSULATORS * ARCING HORNS * WORM GEAR OPERATOR * PROVISIONS FOR KIRK KEY * GROUND SWITCH	PASCOR ATL	230TTR8-AC-SPA
4	3	180KV STATION CLASS SURGE ARRESTER, 144KV MCOV, POLYMER, GRAY	OHIO BRASS	EVP0144003001
5	3	230KV, 900KV BIL, POTENTIAL TRANSFORMER, OIL-FILLED, SINGLE BUSHING A. RATIO: 2000/1200:1 B. ACCURACY 0.3 W,X,Y,Z,ZZ C. 2 SECONDARY WINDINGS	TRENCH	VEOTA245
6	22	230KV STATION POST INSULATOR, 900KV BIL, TR-308, GRAY, HI- STRENGTH	NEWELL	47825-7001
8		230KV BUS MATERIALS		
9	885	4" IPS ALUM TUBING, SCH. 40, 6063-T6 (16) 40' LENGTH; (4) 40' PCS (10) 35' PCS (15) 25' PCS	TW METALS	6063T6 SMLS
11	150	3" IPS ALUM TUBING, SCH 40, 6063-T6 (6) 30' LENGTH (4) 35' PCS (1) 10' PC	TW METALS	6063T6 SMLS BUS
13	900	954 MCM AAC, 37 STR, CODE NAME "MAGNOLIA" (FOR DAMPING)	AWG	AAC
14	360	954 MCM AAC, 37 STR "MAGNOLIA" (FOR JUMPERS)	AWG	AAC



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ITEM	QTY.	DESCRIPTION	MFG.	TYPE OR CAT. NO.
15	15	TERMINAL, 4" IPS ALUM TUBING TO 4", 4 HOLE PAD, WELDED, CENTERFORM	SEFCOR	WFTC-64-4B
16	9	TEE CONNECTOR, 4" IPS ALUM TUBING TO 4", 4 HOLE PAD	SEFCOR	WTF-6269-4B
17	16	BUS SUPPORT CLAMP, 4" IPS ALUM TUBING TO 5" B.C., HOOK TYPE, WELDED	SEFCOR	ASWH-64-5-SE
18	6	BUS SUPPORT CLAMP, 4" IPS ALUM TUBING TO 5" B.C., EXPANSION, WELDED	SEFCOR	WXCTO-64-5
19	6	VEE CONNECTOR, 4" IPS ALUM TUBING TO (2) 3" ALUM TUBING, 30 DEGREE, WELDED	SEFCOR	WFVT15-6462
20	12	TEE CONNECTOR, 4" IPS ALUM TUBING TO 3" ALUM TUBING, 15 DEGREE, WELDED	SEFCOR	WFTT15-6462
21	12	TEE CONNECTOR, 3" IPS ALUM TUBING TO 3" ALUM TUBING, 15 DEGREE, WELDED	SEFCOR	WFTT15-6262
22	24	END BELL, 4" IPS ALUM TUBING, WELDED	SEFCOR	WEB-64
23	12	COUPLER, STRAIGHT, 4" IPS ALUM TUBING TO 4" IPS ALUM TUBING, WELDED	SEFCOR	WSC-6464
27	24	TERMINAL, (2) 954 MCM AAC, 37 STR, TO 4" 4 HOLE PAD, WELDED	SEFCOR	WFC2-34-4B
29	24	CABLE SPACER, (2) 954 MCM AAC, 37 STR, 4" CENTERS	SEFCOR	ASPC-34-4
30	15	TERMINAL, (1) 954 MCM AAC, 37 STR, TO 4" 4 HOLE PAD, WELDED	SEFCOR	WFC-34-4B
34	9	TERMINAL, WELDED ALUM, 4" NPS SCH 40 ALUM TUBE, 4" 4 HOLE PAD, EXPANSION	SEFCOR	WFXTC-64-4B
35	3	TERMINAL, WELDED ALUM, 954 MCM AAC, 3" 4 HOLE PAD	SEFCOR	WFC-34-4A
LIGHTNING PROTECTION				
40	220	LINEAR FEET, 3-#6 ALUMOWELD	AWG	3NO6-01AW
41	2	STRAIN CLAMP, 3-#6 ALUMOWELD	AEC	SWDE-46-N
44	2	YCLEVIS BALL 30,000#	AEC	YBC30
B41	103	GROUND CLAMP, BRONZE, 2 PIECE, 1 CONDUCTOR, 7#5 COPPERWELD, TINNED	SEFCOR	GTC-14-SND
B42	32	GROUND CLAMP, BRONZE, 2 PIECE 2 CONDUCTOR, 7#5 COPPERWELD TINNED	SEFCOR	GTC2-14-SND
B43	7	TERMINAL, BOLTED BRONZE, 7#5 COPPERWELD, 2 HOLE PAD	SEFCOR	FNCT-12-2B
B43A	3	TERMINAL, BOLTED BRONZE, 7#5 COPPERWELD, 3" 4 HOLE PAD, TINNED	SEFCOR	FNCT-12-4A-SND
B44	350	7#5 COPPERWELD	AWG	COPPERWELD
P8	2	GROUND CLAMP, BOTLED BRONZE, 2" SPS ALUM TUBE TO 7#5 COPPERWELD	SEFCOR	1-OC-2751
34.5 KV GALVANIZED STEEL STRUCTURES				



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ITEM	QTY.	DESCRIPTION	MFG.	TYPE OR CAT. NO.
A20	1	34.5KV, "H" FRAME STRUCTURE, BREAKER DISCONNECT, SINGLE BAY, 18' CONDUCTOR HEIGHT WITH PROVISIONS FOR HOOKSTICKS HORIZONTAL INSULATOR CIRCUIT BREAKER UNDERNEATH COMPLETE WITH: A: (8) 3/4" ANCHOR BOLTS B: (2) TEMPLATES	DIS-TRAN ST	APPX WT = 1,123 LBS EA
A22	1	34.5KV BUS SUPPORT STAND, 3 PHASE, 18' BUS HT WITH PROVISIONS FOR 3 HOOKSTICKS 3 PT'S 1 JUNCTION BOX COMPLETE WITH: A: (4) 3/4" ANCHOR BOLTS B: (1) TEMPLATE REF. 4718	DIS-TRAN ST	APPX WT = 1,122 LBS EA
A22A	1	34.5KV BUS FUSE SUPPORT STRUCTURE	DIS-TRAN ST	APPX WT = 1,380 LBS EA
A23	6	34.5KV BUS SUPPORT STAND, 3 PHASE, 15' BUS HT, 3'3" PHASE SPACING -COMPLETE WITH: A: (4) 3/4" ANCHOR BOLTS B: (1) TEMPLATE	DIS-TRAN ST	APPX WT = 586 LBS EA
A24	1	34.5KV BUS SUPPORT STAND, 3-PHASE, 18' BUS HEIGHT COMPLETE WITH: A: (4) 3/4" ANCHOR BOLTS B: (1) TEMPLATE	DIS-TRAN ST	APPX WT = 654 LBS EA
A26	1	34.5KV DISTRIBUTION STRUCTURE, 3 BAYS, 18' BUS HEIGHT WITH PROVISIONS FOR 6 HOOKSTICKS PER BAY 1 CIRCUIT BREAKER IN EACH BAY COMPLETE WITH: A: (20) 3/4" ANCHOR BOLTS B: (5) TEMPLATES	DIS-TRAN ST	APPX WT = 2,745 LBS EA
A27	1	34.5KV DISTRIBUTION STRUCTURE, 3 BAYS, 18' BUS HEIGHT WITH PROVISIONS FOR 3 HOOKSTICKS PER BAY CANTILEAVERED ON 3 BAYS BUS SUPPORT ABOVE EACH BAY COMPLETE WITH: A: (20) 3/4" ANCHOR BOLTS B: (5) TEMPLATES	DIS-TRAN ST	APPX WT = 2,700 LBS EA



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ITEM	QTY.	DESCRIPTION	MFG.	TYPE OR CAT. NO.
A28	3	26KV TERMINATOR STRUCTURE, 3 PHASE, 18' BUS HEIGHT WITH PROVISIONS FOR 3 ARRESTERS BELOW GRADE TERMINATION COMPLETE WITH: A: (4) 3/4" ANCHOR BOLTS B: (1) TEMPLATE	DIS-TRAN ST	APPX WT = 1,522 LBS EA
A35	1	34.5 BUS SUPPORT STAND, 3 PHASE, 18' BUS HEIGHT WITH PROVISIONS FOR: 3 HOOKSTICK 1 JUNCTION BOX COMPLETE WITH: A: (4) 3/4" ANCHOR BOLTS B: (1) TEMPLATE	DIS-TRAN ST	APPX WT = 1,039 LBS EA
A35A	1	GROUND PLATFORM, 3 X 4	DIS-TRAN	
S18	1	230KV L.A./ POTHEAD STAND, 3-PHASE, 8'-6" STRUCTURE HEIGHT, 11'-0" PHASE SPACING	DIS-TRAN ST	APPX WT = 3,522 LBS EA
S13	1	230KV H-FRAME D/E, 1 BAY, 50'-0" STRUCT. HEIGHT W/ PROVISIONS FOR SWITCH AND INSULATORS W/5" B.C., 45'-0" BAY WIDTH REF. 5006	DIS-TRAN ST	APPX WT = 13,236 LBS EA
34.5KV MAJOR EQUIPMENT				
2	1	230KV, 2000A, 900KV BIL, 3-PHASE GROUP OPERATED ALUM. VERTICAL BREAK SWITCH COMPLETE WITH: * TR-308 INSULATORS * ARCING HORNS * MOTOR OPERATOR	PASCOR ATL	230TTR8-AC-SPA
3	1	MOTOR OPERATOR FOR ABOVE SWITCH	PASCOR ATL	MO-10
4	3	180KV STATION CLASS SURGE ARRESTER, 144 KV MCOV, POLYMER, GRAY	OHIO BRASS	EVP0144003001
6	9	230KV STATION POST INSULATOR, 900KV BIL, TR-308, GRAY, HIGH STRENGHT	NEWELL	47825-7001
B57	30	34.5KV, 1200 AMP, 200KV BIL, 61KA MOM, SINGLE PHASE, HOOKSTICK OPERATED, VEE SWITCH, COMPLETE WITH: A. TR-210 STATION POST INSULATORS, GRAY B. VERTICAL MOUNTING C. 70 DEGREE - 180 DEGREE BLADE OPENING	PASCOR ATL	034HPLV
B57A	3	34.5KV, 1200 AMP, 200KV BIL, 61KA MOM, SINGLE PHASE, HOOKSTICK OPERATED, VEE SWITCH, COMPLETE WITH: A. TR-210 STATION POST INSULATORS, GRAY B. VERTICAL MOUNTING C. 90°	PASCOR ATL	HPL-V-90
B58	6	STATION CLASS METAL OXIDE SURGE ARRESTER, 17 MCOV, POLYMER JEA ARRST # ARRST017	COOPER	UHAA021017A1845A11



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ITEM	QTY.	DESCRIPTION	MFG.	TYPE OR CAT. NO.
B61	5	26KV POTENTIAL TRANSFORMER, 150KV BIL, DRY TYPE A. RATIO:120:1 B. ACCURACY:0.3% W,X,Y,Z C. VOLTAGE CLASS: 25KV VEF 25-10	RITZ	VEF25-10
B62	6	FUSED DISCONNECT SWITCHES, 26KV, 150KV BIL COMPLETE WITH: NEMA TR-210 INSULATORS	S&C	192323-SP
B63C	3	POWER FUSE UNITS SMU-40 FOR PT'S (3) 1A S&C PART NUMBER 823001	S&C	823001
B64A	4	125E POWER FUSE -FOR VBM FUSE -1 SPARE	S&C	823125
B64B	2	SMD-20 POWER FUSE, POLE TOP STYLE	S&C	92123R3
B64C	3	POWER FUSE UNITS SMD20 FOR PT'S (1) SPARE	S&C	703001
34.5KV BUS AND MATERIALS				
14	175	954 AAC 37/W "MAGNOLIA"	AWG	AAC
24	3	COUPLER, WELDED ALUM, 2" SPS ALUM TUBE, 2" SPS ALUM TUBE, 90°	SEFCOR	WLBI90-5858
25	6	TERMINAL, WELDED ALUM, 2" SCH 40 ALUM TUBE, 4" 4 HOLE PAD	SEFCOR	WFTC-58-4B
26	9	BUS SUPPORT, WELDED ALUM, 2" SPS ALUM TUBE, 5" B.C.	SEFCOR	ASWH-58-5-SE
30	42	TERMINAL, WELDED ALUM, 954 MCM AAC, 4" 4 HOLE PAD	SEFCOR	WFC-34-4B
31	6	TEE CONNECTOR, BOLTED ALUM, 954(37) MCM AAC, 4" 4 HOLE PAD	SEFCOR	ACF-34-4B
35	3	TERMINAL, WELDED ALUM, 954 MCM AAC, 3" 4 HOLE PAD	SEFCOR	WFC-34-4A
B11	560	954 MCM AAC, 37 STRAND, CODE NAME "MAGNOLIA" -(PURCHASED THRU KCIS A JSEB MEMBER)	AWG	A954-01BA01
B25	6	CABLE SPACER FOR (2) 954 MCM AAC, 4" SPACING,	SEFCOR	ASPC-34-4
B26	3	CABLE SPACER, (2) 954 MCM AAC (37 STR) W/ 3" 4 HOLE PAD, 90 DEGREES	SEFCOR	ASPC-34-4-4A
B30	6	TERMINAL, 4/0 AAC TO 4 HOLE PAD, WELDED	SEFCOR	WFC-11-4A
B32	12	TERMINAL, 954 AAC TO 2 HOLE PAD, WELDED	SEFCOR	WFC-34-2B
B33	24	TEE CONNECTION, WELDED ALUM, 2" ALUM TUBE, 2 HOLE PAD	SEFCOR	WTF-3960-2B
B34	3	TERMINAL WELDED ALUMINUM, 900-954 AAC OR 795 (24/7) (30/19) ACSR TO 4-HOLE PAD	SEFCOR	WFC-34-4A
B37	45	TERMINAL, (2) 954 MCM AAC TO 4 HOLE 3" WIDE PAD, WELDED	SEFCOR	WFC2-34-4A
B38	18	TERMINAL, (2) 954 MCM AAC TO 4 HOLE PAD, WELDED, 90 DEGREE	SEFCOR	WFC2-90-34-4A



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B65	970	RIGID BUS PIPE, ALUMINUM, 2" DIA. NPS, SCH 40, 6063-T6, ASTM B241, 53% IACS CONDUCTIVITY, 1.264PLF, 25KSI YIELD STRENGTH, SUITABLE FINISH FOR HIGH VOLTAGE APPLICATION (14) 40' PCS (4) 35' PCS (5) 30' PCS (4) 25' PCS (1) 20' PC	TW METALS	6063T6 SMLS
B66	775	556.5 MCM AAC, 37 MCM AAC, CODE NAME "MISTLETOE" -(DAMPENING)	AWG	A556.5-01BA11
B67	80	4/0 AAC, 7 STRAND, CODE NAME "OXLIP"	AWG	A4/0-01BA01
B68	48	STATION POST INSULATOR, 34.5KV, 200KV BIL, TR-210, GRAY 2000 # CANTILEVER STRENGTH	NEWELL	231004-7001
B69	45	BUS SUPPORT CLAMP, 2" IPS ALUM TUBING TO 3" B.C., HOOK-ON TYPE, WELDED	SEFCOR	ASWH-58-3-SE
B70	21	TERMINAL, 2" IPS ALUM TUBING TO 4 HOLE PAD, WELDED, 90 DEGREE	SEFCOR	WFT90-58-4A
B71	3	TERMINAL WELDED, AL. 2" SPS AL. TUBE, 4- HOLE 3" PAD, EXPANSION, CENTERFORMED	SEFCOR	WFXTC-58-4A
B72	3	TERMINAL, 2" IPS ALUM TUBING TO 4 HOLE PAD, WELDED, EXPANSION, SEMI FLEXIBLE	SEFCOR	WSFFT-58-4A
B73	21	END BELL, 2" IPS ALUM TUBING, WELDED	SEFCOR	WEB-58
B74	27	TEE CONNECTOR, 2" IPS ALUM TUBING TO 2" IPS ALUM TUBING, WELDED	SEFCOR	WFTT-5858
B75	6	TEE CONNECTOR, 954 MCM AAC TO 4/0 AAC, BOLTED	SEFCOR	ACRCT-3413
B76	9	TERMINAL, 2" IPS ALUM TUBING TO 4 HOLE PAD 4" WIDE, WELDED, CENTERFORMED	SEFCOR	WFTC-58-4B
B77	9	TEE CONNECTOR, 2" IPS ALUM TUBING TO 4 HOLE PAD, WELDED	SEFCOR	WTF-3960-4B
B79A	17	TERMINAL, 4/0 AAC TO 2 HOLE PAD, WELDED	SEFCOR	WFC-11-2B
B82	24	COUPLER, 2" IPS ALUM TUBING TO 2" IPS ALUM TUBING, WELDED 90 DEGREE	SEFCOR	WLBI90-5858
B85	6	COUPLER, 2" IPS ALUM TUBING TO 2" IPS ALUM TUBING, WELDED	SEFCOR	WSC-5858
B90	3	ALUMINUM FLAT BAR, 1/2" X 4" X 14 3/4" SAME AS JOB 5491 (3 pieces)	WILLIAMS M	
ABOVE GRADE GROUNDING AND STATIC				
P8	3	GROUND CLAMP, 2" PIPE TO 7#5 COPPERWELD TO STEEL TINNED	SEFCOR	1-OC-27X51-SND
B41	78	GROUND CLAMP, 2 PIECE, 1 CONDUCTOR, 7#5 COPPERWELD TO STEEL, TINNED	SEFCOR	GTC-14-SND



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B42	40	GROUND CLAMP, 2 PIECE, 2 CONDUCTOR, 7#5 COPPERWELD TO STEEL, TINNED	SEFCOR	GTC2-14-SND
B43	10	TERMINAL, 7#5 COPPERWELD TO 2 HOLE PAD, BOLTED	SEFCOR	FNCT-12-2B
B44	320	7 # 5 COPPER WELD CABLE FOR STRUCTURE GROUNDING 40% DSA	AWG	7#5-01CW
B45	5	BRONZE TAP LUG TERMINAL, CABLE TO FLAT, #6 SOLID THROUGH 250mcm, 3/8-16 BOLT TINNED **H-j ENTERPRISES**	DIS-TRAN	BTLS25-001TP
TERMINAL & EQUIPMENT BOLTS				
EB	1	EQUIPMENT MOUNTING BOLTS (25) 3/8" X 1-1/4" A307 GRADE A HB (45) 3/8" F844 USS FW (25) 3/8" A563 GRADE A HN (220) 1/2" X 1" A307 GRADE A HB (30) 1/2" X 1-1/4" A307 GRADE A HB (5) 1/2" X 1-1/2" A307 GRADE A HB (30) 1/2" X 2-1/2" A307 GRADE A HB (210) 1/2" F844 USS FW (70) 1/2" A563 GRADE A HN	T.F.	
EB	1	EQUIPMENT MOUNTING BOLTS (CONT) (40) 5/8" X 1-1/4" A307 GRADE A HB (125) 5/8" X 1-1/2" A307 GRADE A HB (15) 5/8" X 1-3/4" A307 GRADE A HB (15) 5/8" BW (40) 5/8" F844 USS FW (140) 5/8" A563 GRADE A HN (20) M20 X 2.5 X50 METRIC HHB (20) M20 METRIC WASHER	T.F.	
TB	1	S.S TERMINAL BAGGED BOLTS W/ HARDWARE (2F_1BW_1BHN) (5) *L2 1/2" X 1-1/2" (15) *M2 1/2" X 1-3/4" (30) *M4 1/2" X 1-3/4" (15) *N2 1/2" X 2" (45) *N4 1/2" X 2" (12) *O2 1/2" X 2-1/4" (45) *O4 1/2" X 2-1/4" (10) *P2 1/2" X 2-1/2" (45) *P4 1/2" X 2-1/2"	T.F.	