

C:\LANL\Engineering\Bldgs\Eng - Manual [LEU]\2 - Approved\ST-G4010-10\21.dwg, 10/21/02, 11:49 083508

	8	7	6	5	4	3	2	1
H	<b>BILL OF MATERIALS</b>							
	<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>MFR. CATALOG No.</b>				
	①	WOOD POLE, DF _____, CLASS 3	1					
	②	CROSS ARM, WOOD, 3 1/2" X 4 1/2" X 8'-0", 4 PIN	1	HUGHES #2202C				
	③	CROSS ARM BRACE, 1 11/16" X 2 11/16" X 48" SPAN	2	BROOKS #446-48-24				
	④	RIDGE IRON, SHIELD WIRE TYPE	1	HUGHES #1155				
	⑤	SUSPENSION CLAMP	1	HUBBELL/ANDERSON #MS-46-N				
G	⑥	MACHINE BOLT, 5/8" X 12"	2	JOSLYN #J8812				
	⑦	SPRING WASHER, 5/8" SIZE	7	JOSLYN #J177				
	⑧	WIRE, 3/8" (7#8) H.S. STATIC, 30% COND.	AS REQ'D	COPPERWELD				
	⑮	CRIMP CONNECTOR	1	HYTAP				
	⑯	LOW VOLTAGE STEEL PIN, 5/8", 6" HEIGHT	3	JOSLYN #J207Z				
F	⑰	PIN INSULATOR, ANSI CLASS 55-5	3	VICTOR #9R				
	⑱	MACHINE BOLT, 1/2" X 6"	2	JOSLYN #J8706				
	⑲	SPRING WASHER, 1/2" SIZE	2	JOSLYN #J176				
	⑳	MACHINE BOLT, 5/8" X 14"	1	JOSLYN #J8814				
	㉑	MACHINE BOLT, 5/8" X 18"	1	JOSLYN #J8818				
	㉒	SQUARE WASHER, 5/8" SIZE	1	JOSLYN #J1074				
	㉓	DIST. TIES FOR 3/0 ACSR (6/1)	3	PREFORMED #UTF-1207				
E	④⑨	NO. 1/0 BARE COPPER WIRE, 7 STRAND	AS REQ'D					
	④⑫	GROUND WIRE STAPLES, 2"	AS REQ'D	JOSLYN #J6855				
	④⑬	GROUND ROD, 3/4" X 8"	1	JOSLYN #J5338				
	④⑭	GROUND ROD CLAMP, HEX HEAD, 3/4"	1	JOSLYN #J8483				
D								
C								
B								
A								

**GENERAL NOTES:**  
 1. THIS BILL OF MATERIALS APPLIES TO DRAWING ST-G4010-10, SHT. 1.  
 2. EQUIPMENT ITEM NUMBERS (①) REFER TO EQUIPMENT NUMBERS IN LANL SUPPORT SERVICES CONTRACTOR'S MASTER BILL OF MATERIALS. ONLY THOSE NUMBERS USED ON SHT. 1 OF THIS DRAWING ARE SHOWN.

**NOTES FOR DESIGNER:**  
 (DO NOT INCLUDE ON CONSTRUCTION DRAWING)  
 1. COMPLY WITH CURRENT EDITION OF LANL DRAFTING MANUAL FOR CALL-OUTS PROTOCOL AND LOCATION OF SCHEDULES/MATERIAL.  
 2. ASSIGN AN APPROPRIATE DRAWING NUMBER PER CURRENT EDITION OF LANL DRAFTING MANUAL PROTOCOL FOR DETAILS.

DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

NO	DATE	CLASS REV	DESCRIPTION	OWN	VER	CHKD	SUB	APP											
<b>FACILITY &amp; WASTE OPERATIONS SYSTEMS ENGINEERING &amp; MAINTENANCE</b>																			
<b>LANL ENGINEERING MANUAL          SITE ELECTRICAL DISTRIBUTION STDS.</b>												DRAWN	M. BAKER						
DISTRIBUTION - SINGLE ARM TANGENT STRUCTURE BILL OF MATERIALS												DESIGN	D. BRYANT						
BLDG. X <span style="float: right;">TA-X</span>												CHECKED	J. LANDMAN						
SUBMITTED <span style="float: right;">APPROVED FOR RELEASE</span>												DATE	9/30/02						
DISCIPLINE POCI DAVID POWELL <span style="float: right;">STANDARDS MANAGER TOSH GRUCH</span>												SHEET		2					
NATIONAL LABORATORY <span style="float: right;">PO Box 1663 Los Alamos, New Mexico 87545</span>												2	of	2					
CLASSIFICATION U <span style="float: right;">REVIEWER MICHAEL LADACH</span>												DATE		9/30/02					
PROJECT ID <span style="float: right;">DRAWING NO</span>												REV		0					
<b>CHAPTER 7</b>												<b>ST-G4010-10</b>		<b>0</b>					