		8 7	6	5	7	4	7	3	2		1
	ITEM	BILL OF MATERIALS DESCRIPTION	QTY MFR. CATALOG No.						GENERAL NOTES:		
	1	POLES: Ft CLASS	2						1. THIS BILL OF MATERIALS		
	3	CROSSARM ASSEMBLY: ASSEMBLED ARM FOR TANGENT STRUCTURE WITH ARM MOUNTING HARDWARE, & 2821.6 SWINGING ANGLE BRACKET COMPLETE WITH HARDWARE	1 HUGHES #C2561.7C						EQUIPMENT ITEM NUMBER LANL SUPPORT SERVICES DNLY THOSE NUMBERS I	CONTRACTOR'S MAST	QUIPMENT NUMBERS IN ER BILL OF MATERIALS, THIS DRAWING ARE SHOWN.
	6	X-BRACES: COMPLETE WITH MOUNTING HARDWARE (2-7/8" x 16" AND 2-7/8" x 18" BOLTS)	1 SET HUGHES #2094-14-6-CPT								
	9	VEE BRACES: COMPLETE WITH MOUNTING HARDWARE	2 SETS HUGHES #2025ACV108								
G	11)	SUSPENSION CLAMP: WITH 90" Y-EYE FOR 3/8", 7 STRAND SHIELD WIRE	2 HUBBELL/ANDERSON #MS-70-N WITH #YCS-05-90								
	12	ARMOR ROD: 3/8", 7 STRAND E.H.S.	2 PREFORMED #AR-1130								
	(13)	SHIELD WIRE DAMPER	4 ALCDA #1701-3								
	14	SHIELD WIRE ANGLE: WITH MOUNTING HARDWARE	1 HUGHES #C2561.7D								
	15	STEEL CABLE: 1/2°. 7 STRAND E.H.S.	AS NATIONAL STRAND PRODUCTS; REQ'D HOUSTON, TEXAS								
	20	CONNECTING LINK	1 PR. HUGHES #3154								
	23	GUY GRIP: 1/2", 7 STRAND E.H.S. STEEL CABLE	2 PREFORMED #BG-2115								
	25	Y-BALL	3 HUBBELL/ANDERSON #YBC-30								
	27	SUSPENSION CLAMPS: WITH SOCKET EYE FOR 477 KCM 26/7 ACSR	3 HUBBELL/ANDERSON #HAS-139-S								
	28	SUSPENSION INSULATORS: 15,000# TEST WITH BALL & SOCKET CLASS 52-5	21 LAPP #5960G								
	<u>3</u>	ARMOR ROD: FOR 477 KCM 26/7 ACSR	3 PREFORMED #AR-D134								
	32	CONDUCTOR DAMPER	6 ALCOA #1705-7								
E	₩	GUY STRAIN INSULATOR: FIBERGLASS, 6'-6" WITH ROLLER & 2 PINS	1 MACLEAN POWER SYSTEMS #GCC30-78R								
	3 ₽	ANCHOR ROD: 1-1/4" x 10" WITH INSULATING WASHER, HEAVY CAST STEEL NUT & STEEL WASHER COATED WITH MASTIC ASPHALT & COVERED BY A PLASTIC PIPE	1 NATIONAL FOUNDRY #1251D								
 ->	38 ⟩	ANCHOR PLATE	1 NATIONAL FOUNDRY #NF024B-14								
	39	GROUND WIRE: 30% CONDUCTIVITY, 3#8 (REFER TO POLE HEIGHT FOR LENGTH)	AS COPPERWELD								
D	40>	GROUND WIRE STAPLE	50 COOPER POWER SYSTEMS/ KEARNEY #12326-1								
	41)	GROUND ROD: 5/8" x 10"-0" SECTIONAL	4 THOMAS & BETTS/BLACKBURN #6260S						Nates	FOR DESIGNER: OT INCLUDE ON CONSTI	•
Ш	42	GROUND ROD COUPLERS: 5/8" ROD	2 THOMAS & BETTS/BLACKBURN #600						T CON LAN	FLY WITH CURRENT ED DRAFTING MANUAL FO B PROTOCOL AND LOC EDULES/MATERIAL.	IITKON OF TOTALL ATION OF TOTALL
	43	GROUND ROD CONNECTOR: 5/8" ROD TO GROUND WIRE 3#8 (2)	2 FCI-BURNDY HYTAP						2. ASSI	edules/material. Gn an appropriate d Ber Per Current d Drafting Manual Pi Details.	RAMING ATTORN OF COTOCOL P
С	⊗	POLE BAND: 2 WAY 180" (12" - 14")	1 HUGHES #3108.7 WITH #2718.55 BONDING UNIT							DETAILS.	
									P1 100		
									NO DATE CLASS REV	DESCRIPTION	DWN VER CHKD SUB APP
В									FAC SYSTEM	LITY & WAST S ENGINEERIN	TE OPERATIONS G & MAINTENANCE
									LANL ENGIN	IEERING MANUA	
									TANGENT STR	UCTURE 402 (1"-4") OF MATERIALS	DESIGN D. BRYANT CHECKED J. LANDMAN
									BLDG, X	A MAIENALD	TA-X DATE 9/30/02
							DRAWING DEVELOPED PROJECTS: FOR ML-		SUBMITTED DISCIPLINE POC: DAVID POWELL		FOR RELEASE S MANAGER TOBIN GRUCH
							ADDITIONAL REQUIREM REVIEWS ARE REQUIRE	IENTS AND QA		210 2200	SHEET 2
A							THIS NOTE WHEN INS DRAWING PACKAGE).	ERTED INTO A	Los Alamos	P0 Box 1865	2 45 7
									NATIONAL LABORATORY CLASSIFICATION U	REVIEWER NICHAEL	LADACH DATE 9/30/02
									PROJECT ID CHAPTER	7 ST	-G4010-02 0