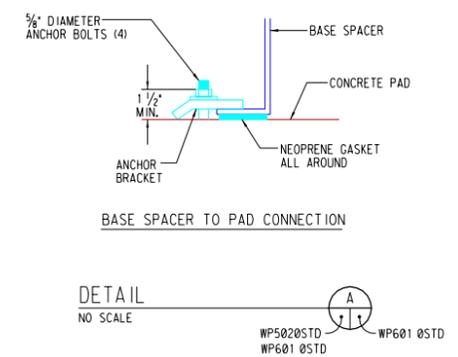


S & C PMS - 5 DETAILS  
SCALE: 3/4" = 1'-0"

- GENERAL NOTES**
- CONTRACTOR MUST COORDINATE WITH SANDIA AND FOLLOW ALL RECOMMENDATIONS FOR DE-ENERGIZING ALL EQUIPMENT AND FEEDERS NECESSARY TO INSTALL SWITCH. SEE SEQUENCE OF CONSTRUCTION FOR INSTALLATION OF SWITCH.
  - INSTALL IDENTIFICATION TAGS ON ALL FEEDERS AND SWITCHES PER SPECIFICATIONS AS DIRECTED BY THE SANDIA CONTRACTING REPRESENTATIVE. FEEDERS TO HAVE 1" HIGH LETTERS.
  - REFER TO DRAWING WP501 9STD, FOR SWITCH GEAR CONFIGURATIONS.
  - CABLES OF THE SAME CIRCUIT SHALL HAVE THE PHASING IDENTIFIED WITH BLUE COLOR TAPE. PHASE A (POSITION 1) WITH ONE WRAP, PHASE B (POSITION 2) WITH TWO WRAPS, PHASE C (POSITION 3) WITH THREE WRAPS.
  - SOIL COMPACTION 90% PER ASTM D1557.

- KEYED NOTES**
- 1" CHAMFER ALL AROUND PAD.
  - NO. 4 REBAR 2" FROM EDGE, CONTINUOUS AROUND PAD.
  - NO. 4 REBAR 6" O.C. BOTH WAYS.
  - 4" DIA. S.B.P. GUARD POST, 7'-0" LONG, SET IN 3'-0" OF CONCRETE. SEE ARCHITECTURAL STANDARD DRAWING C-5003STD.
  - SEE DETAIL (A) . SPACE PER MANUFACTURES RECOMMENDATIONS.
  - WP601 ØSTD WP601 ØSTD
  - BURNDY TYPE "OGFL" BARTAP LUG SIZED TO FIT GROUNDING CONDUCTORS.
  - SIZE OF PHASE CONDUCTORS, GROUND WIRE AND CONDUIT ARE SHOWN ON CONSTRUCTION DRAWINGS.
  - GROUNDING TYPE BUSHING SIZED TO MATCH CONDUIT.
  - RUN FEEDER GROUND WIRE THROUGH CONDUIT GROUND BUSHING.
  - 2/0 BARE COPPER GROUND WIRE.
  - 3/4" X 10' COPPER GROUND ROD, CADWELD TO GROUND SYSTEM.
  - #6 COPPER GROUND WIRE.
  - BURNDY TYPE "KVS" SPLIT-BOLT COPPER CONNECTOR, SIZED TO FIT GROUND CONDUCTORS.
  - PHASE IDENTIFICATION MARKING TAPE, SEE GENERAL NOTE \*4\* FOR DETAILS (TYPICAL).
  - COMPACTED SOIL, 90% COMPACTION PER ASTM D1557.
  - CADWELD.
  - CADWELD GROUND WIRE THAT IS RUNNING ALONG PRIMARY FEEDER TO GROUND GRID.
  - CONNECT TO GROUND LUG ON SWITCHGEAR SPACER EXTENSION. FIELD VERIFY EXACT LOCATION.



ELECTRICAL EQUIPMENT LIST			
SYMBOL	NAMEPLATE	DESCRIPTION	MANUFACTURER & CATALOG NO.
△ 1		MANUAL OPERATED PAD-MOUNTED SWITCHGEAR, THREE PHASE, 200 AMP, 15KV, 14.4 NOMINAL, 17KV MAX. DESIGN, 95KV BIL, EXTERNAL HANDLE. ENCLOSURE TO BE TAMPER-RESISTANT, FREE STANDING, BOTTOM CABLE ENTRANCE, ENCLOSURE ROOF COATED WITH INSULATING "NO DRIP" COMPOUND, INTERPHASE AND END BARRIERS OF FIBERGLASS-REINFORCED POLYESTER, TERMINAL PADS TO ACCOMMODATE CABLE-TERMINATING DEVICES AS REQUIRED, KEYPED LOCKING OPERATOR HANDLES, FACTORY PAINTED LIGHT GREY ANSI-70, WITH PRIMER BASE AND WITH KIRK KEY.	S & C MODEL PMH-5 55112R3-A2C3K8
△ 2		TERMINATOR, CLASS 1, ONE PIECE DESIGN, INTERGRATED WITHIN A SKIRTED INSULATOR MADE OF SILICONE RUBBER, MUNSEL GREY IN COLOR, FOR 15KV SHIELDED CABLE. PROVIDE WITH GROUNDING DEVICE.	3M 5630 K SERIES QUIJK TERM 31 COLD SHRINK
△ 3		15 KV FUSES, 14.4 KV NOMINAL, 17 KV MAXIMUM DESIGN 200 AMP MAXIMUM WITH UNI-RUPTER.	S & C SMU - 20 (NO SUBSTITUTIONS)
△ 4		BASE SPACER, NON-COMPARTMENTED, CARBON STEEL, 1 2" HIGH, FACTORY PAINTED LIGHT GREY ANSI-70, WITH PRIMER BASE.	S & C (KB)
△ 5		MANUAL OPERATED PAD-MOUNTED SWITCHGEAR, THREE PHASE, 600 AMP, 15KV, 14.4 NOMINAL, 17KV MAX. DESIGN, 95KV BIL, EXTERNAL HANDLE. ENCLOSURE TO BE TAMPER-RESISTANT, FREE STANDING, BOTTOM CABLE ENTRANCE, ENCLOSURE ROOF COATED WITH INSULATING "NO DRIP" COMPOUND, INTERPHASE AND END BARRIERS OF FIBERGLASS-REINFORCED POLYESTER, TERMINAL PADS TO ACCOMMODATE CABLE-TERMINATING DEVICES AS REQUIRED, KEYPED LOCKING OPERATOR HANDLES, FACTORY PAINTED LIGHT GREY ANSI-70 WITH PRIMER BASE.	S & C MODEL PMH - 10 #5524R3-A2K10
△ 6		S & C SAME AS △ 5 BUT HAS THREE SWITCH SECTIONS AND ONE FUSED SECTION WITH KIRK KEY.	S & C MODEL PMH - 19 55212R3-A2C3K8

P.O.	REV	DATE	DESCRIPTION	DWN	CKD	APP
	△	03/11/04	CORRECTIONS	EG	LR	
	△	6/15/01	UDS MODS	EG	FL	
AW7088	△	1/96	MODIFY GROUNDING	MJ	PD	
	△	4-95	MODIFY CATALOG NUMBERS	P.P		

U.S. DEPARTMENT OF ENERGY  
KIRTLAND AREA OFFICE ALBUQUERQUE, NEW MEXICO

**SANDIA NATIONAL LABORATORIES**

S&C PAD MOUNT EQUIPMENT LIST & DETAILS		P.O.	
		PROJECT NO.	
		DRAWN BY	J. MARTINEZ
		CHECKED BY	P. DURAN
		SNL ENGR	L. ROYBAL
CIVIL WORKS POWER STANDARD		DATE	8/91
		SIZE	D+
		DRAWING NO	WP6010STD
		SEQ.	

OLD DWG. # 84820E05  
MICROSTATION FILE  
FILE NAME: WP601 0STD.dgn  
REFERENCE FILES: