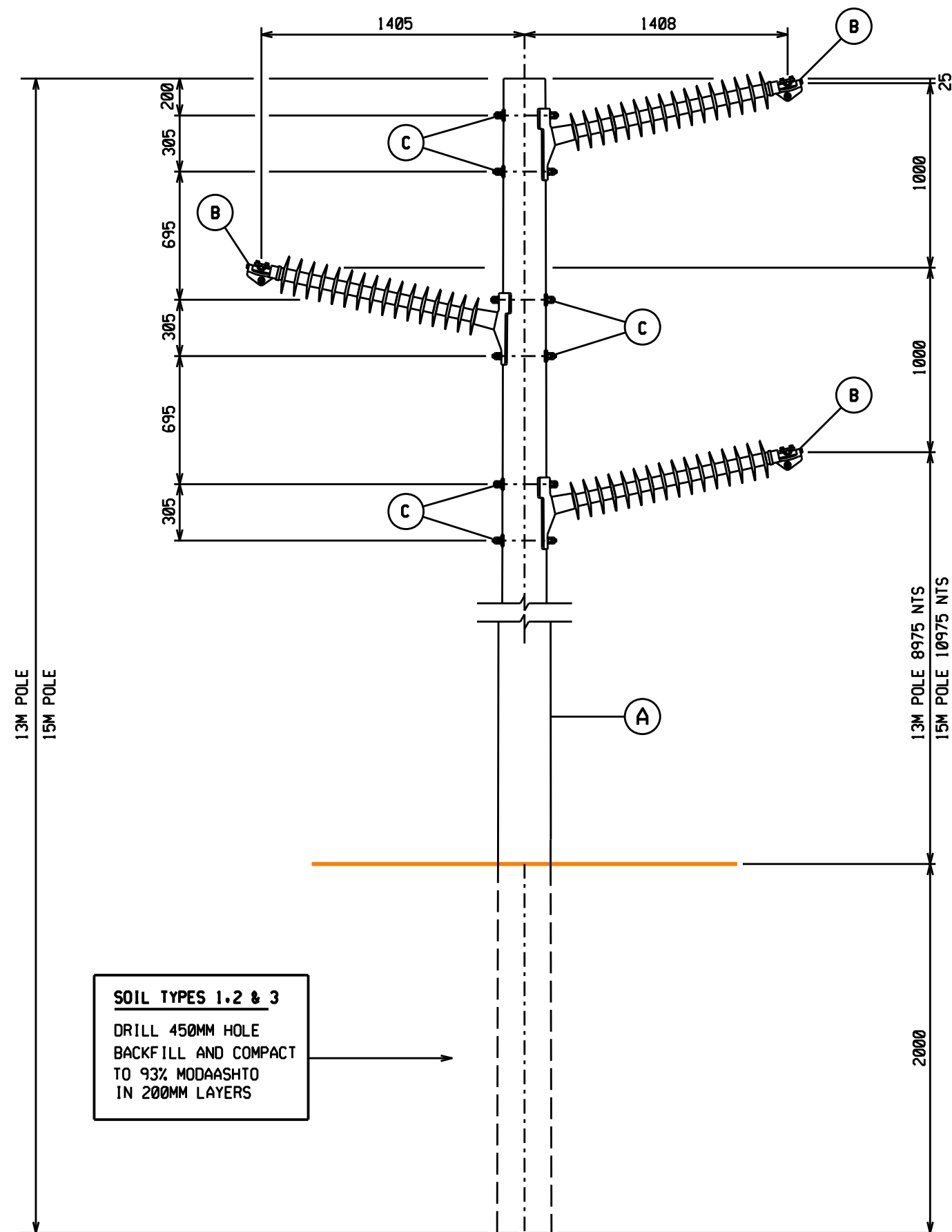




MATERIAL SCHEDULE PER STRUCTURE		
QTY	ITEM NO	PART NAME
1	A	13.0M WOOD POLE - 200 TOP
1	A1	15.0M WOOD POLE - 200 TOP
3	B	LINE POST - 5.5KN GAIN BASE 13-27MM AL COND TRUNNION CLAMP
6	C	M20X350MM THREADED ROD, 4 NUT, 6 WASHERS
3	D	D SHACKLE 70 KN
3	E	OPTION 1 - SUSPENSION CLAMP 8/18MM ARMOR ROD OPTION 2 - AGS UNIT

NOTES

- 1 CLAMP IN TRUNNION OR
USE ITEM D AND E AS AN OPTION
- 2 HARDWARE CLAMPS ARE CONDUCTOR DEPENDENT
TO SABS ISO 1461
- 3 CONSTRUCTION WORK TO COMPLY WITH
ESKOM SPECIFICATION TRM5CAAC1

DESIGN SPANS					
CONDUCTOR	POLE	DIAMETER	WIND	WEIGHT SPAN	UPLIFT
CHICADEE	15	200	99	139	69
	13	200	113	158	79
	13	180	85	119	60
HARE	15	200	132	185	92
	13	200	150	210	105
	13	180	113	158	79
MINK	15	200	170	238	119
	13	200	194	272	136
	13	180	146	204	102
KINGBIRD	15	200	78	109	55
	13	200	89	125	62
	13	180	67	94	47
WOLF	15	200	103	144	72
	13	200	118	165	83
	13	180	88	123	62

SOIL TYPES 1, 2 & 3

DRILL 450MM HOLE
BACKFILL AND COMPACT
TO 93% MODAASHTO
IN 200MM LAYERS

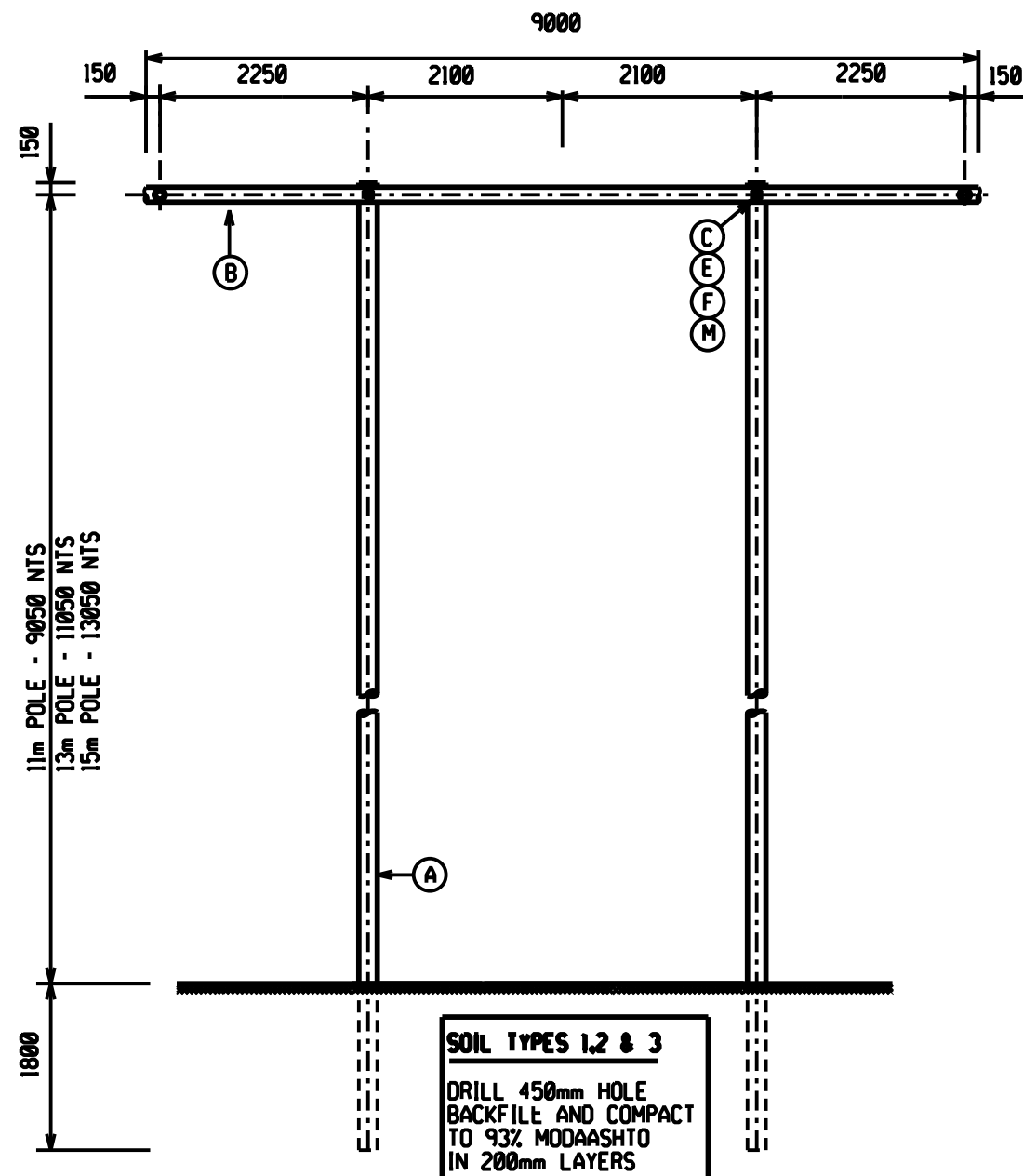
						CHECKED		AUTHORIZED		
						NB	13/01/16	PC		
						DRAWN		13/01/16		
						SM	10/12/15			
						SCALE	1:100			
01	NN	NB	PC	03/02/16	DIMENSIONS REVISED & TABLE UPDATED					
REV	DRAWN	CHKD	APPROVED	DATE	REVISION DESCRIPTION					

TOWER TYPE EP-SU1

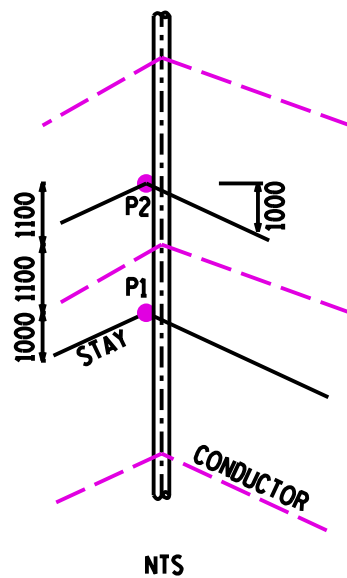
0° SUSPENSION STRUCTURE
ASSEMBLY AND DETAILS

ER00200

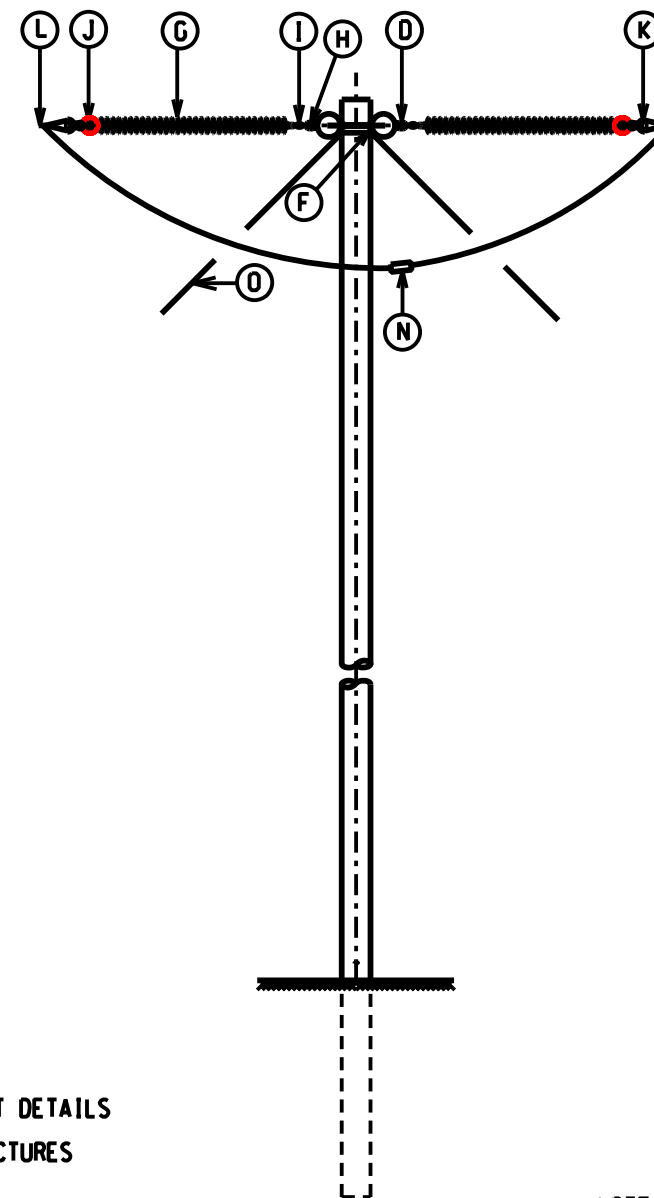
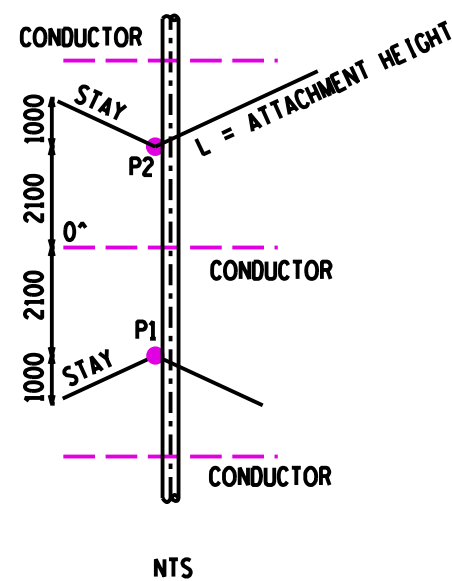
SET	SHEET	REVISION
16	05	01



STAY SETTING OUT DETAILS
ANGLE STRUCTURES



STAY SETTING OUT DETAILS
IN-LINE STRUCTURES



ITEM	MATERIAL SCHEDULE	No REQ.
A	POLE WOOD - 11m,13m x ϕ 180mm AND (15m x ϕ 200mm)	2
B	CROSSARM WOOD - 9000 x ϕ 160mm	2
C	ROD THREADED FULL - M20 x 600mm LONG	5
D	NUT EYE GALV. M20	6
E	WASHERS CURVED - M20x65mm	16
F	BONDING CLIP M20	2
G	INSULATOR, LONG ROD 132kV 120kN 31mm/kV COMP	6
H	SHACKLE, STRAIGHT BOLT TYPE 120kN	6
I	BALL EYE, OVAL 16mm 120kN	6
J	SOCKET TONGUE, 16mm IEC 120kN	6
K	CLEVIS THIMBLE	6
L	WRAPS PREFORMED CONDUCTOR DEAD END	4
M	FLAT ROUND WASHER M20	3
N	CONNECTOR COMPRESSION - JUMPER SPLICE	
O	STAYROD ASSEMBLY M230X2000mm ADJUSTABLE COMPLETE WITH 375X375X6mm STAYPLATE THIMBLE STAY TO FIT 14mm DIA WIRE	4
	GUY GRIP DEAD END 7/4mm	8
	WIRE STRAND STEEL 7X4mm 1100Mpa	90m

DESIGN SPANS					
CONDUCTOR	POLE	DIAMETER	WIND	WEIGHT	UPLIFT
HARE	11	180	320		
	13	180	300	2682	-235
	15	200	288		
CHICADEE	11	180	240		
	13	180	225	1784	-156
	15	200	216		
WOLF	11	180	250		
	13	180	235	1569	-138
	15	200	225		
KINGBIRD	11	180	192		
	13	180	180	1114	-97
	15	200	172		

NOTE

- FOR DEVIATION ANGLE GREATER THAN 45° OFFSET POLES 1000mm INWARDS
- ON IN-LINE STRUCTURES, STAYS OFFSET AT 3100mm EITHER SIDE OF CENTRE LINE
- ON ANGLE STRUCTURES STAYS OFFSET 1000mm OUTWARDS OF IN LINE POSITION
- DESIGN CONDUCTOR : HARE (MAX DESIGN TENSION 34kN)
- FOR STAY ASSEMBLY (MV-97kN) DETAILS SEE D-DT-0341, WITH THE EXCLUSION OF THE STRAIN STAY INSULATOR
- POLE FOUNDATIONS REFER TO D-DT-0332 AND D-DT-0330

REV	DRAWN	CHKD	APPROVED	DATE	REVISION DESCRIPTION	CHECKED	AUTHORIZED
00	SM				STAY SETTING OUT DETAILS ADDED	NB 13/01/16	PC 13/01/16
00	SM					SM 10/12/15	
						SCALE 1:100	Eskom Distribution

TOWER TYPE EP - AS2
0 - 90° ANGLE STRAIN ASSEMBLY AND DETAILS

ER00200
SET SHEET REVISION
16 07 02