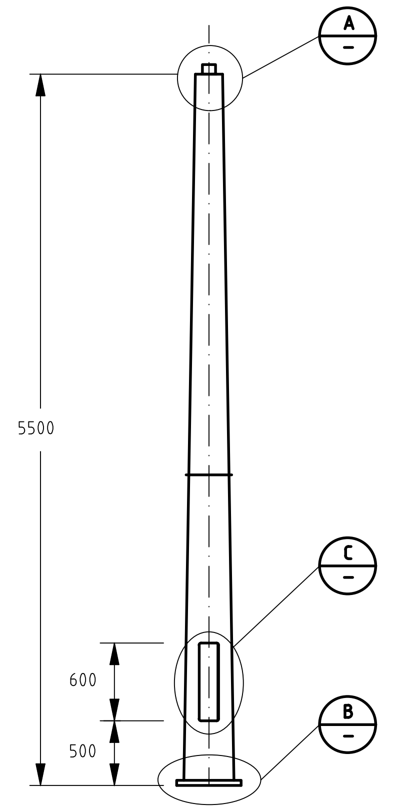
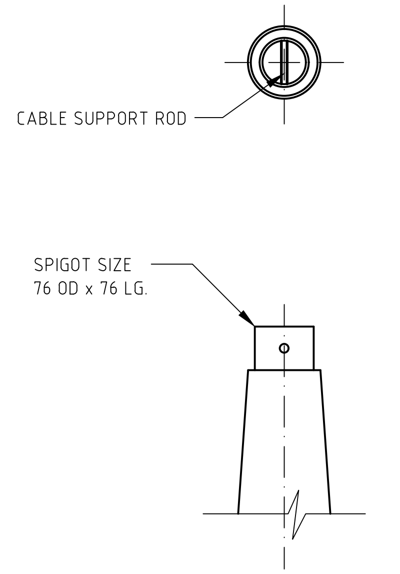
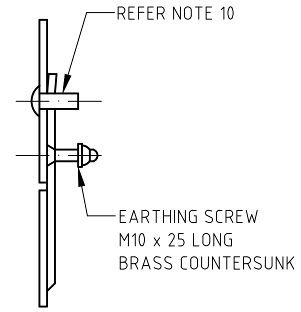


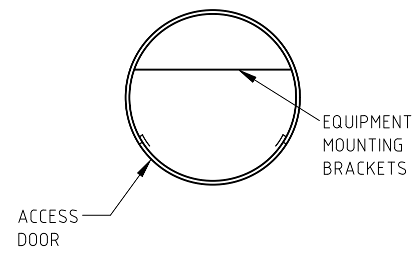

5.5m POST TOP TYPE COLUMN

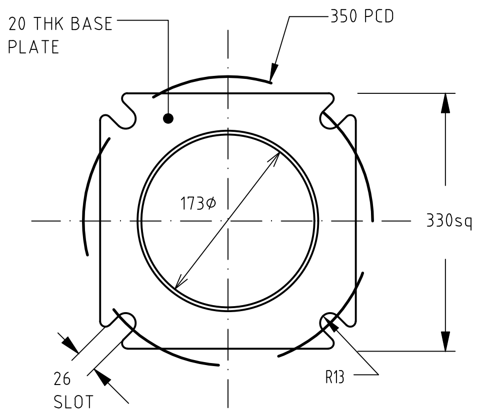



SPIGOT - DETAIL A

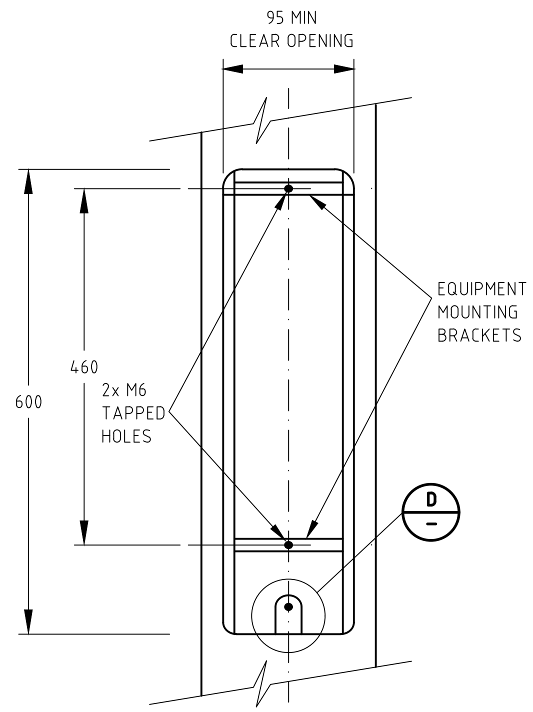



DETAIL D




BASE PLATE - DETAIL A




EQUIPMENT ACCESS - DETAIL C

(DOOR REMOVED FOR CLARITY)

## NOTES:

1. THE DESIGN IS INDICATIVE ONLY AND THE BELOW REQUIREMENTS ARE MINIMUM REQUIREMENTS. POLE MANUFACTURER / SUPPLIER TO DESIGN POLE, FOOTINGS AND ALL ATTACHMENTS IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS BELOW AND PROVIDE DESIGN DRAWINGS AND NT SECTION 40 STRUCTURAL DESIGN CERTIFICATION.
2. ALL WELDING AND WELD PREPARATION SHALL BE IN ACCORDANCE WITH AS1554.
3. CIRCUMFERENTIAL WELDS TO BE JOGGLED BUTT TYPE. LONGITUDINAL WELDS TO BE SINGLE BUTT TYPE. ALL WELDS TO BE MADE BY CONTINUOUS AUTOMATIC PROCESS AND ARE NOT TO BE DRESSED SMOOTH.
4. AFTER FABRICATION ALL COMPONENTS TO BE ACID DE-SCALED AND HOT DIPPED GALVANIZED MINIMUM 450g/sq.m TO AS4680.
5. WIND LOADING TO COMPLY WITH THE REQUIREMENTS OF AS/NZS 1170.1:2011 INCLUDING:
   - IMPORTANCE LEVEL 2 WITH PARAMETERS AS SHOWN IN THE WIND LOADING CRITERIA TABLE BELOW.
   - DEFLECTION LIMIT = 2% OF NOMINAL LENGTH.
   - MINIMUM ALLOWANCE FOR LUMINARIES TO BE WIND AREA OF 0.15sqm AND WEIGHT OF 15kg (UNLESS PROJECT SPECIFIC LUMINARIES REQUIRES LARGER VALUES) AND DRAG COEFFICIENT OF 1.2 (OR AS OTHERWISE ADVISED BY LUMINARIES MANUFACTURER).
   - ALLOWANCE FOR REQUIRED ATTACHMENTS AS APPROPRIATE FOR PROJECT INCLUDING CCTV CAMERAS, BANNERS, WEATHER STATION, EQUIPMENT BOXES, MASTS ETC.
6. COLUMNS ARE TO CONFORM TO THE REQUIREMENTS OF AS4100 AND AS1798.
7. COLUMNS ARE TO HAVE CONTINUOUS TAPER OVER THEIR ENTIRE LENGTH AND A STEEL THICKNESS OF NOT LESS THAN 3mm.
8. TWO PIECE COLUMNS MUST BE ASSEMBLED PRIOR TO DELIVERY.
9. ACCESS DOORS ARE NOT INTERCHANGEABLE. ENSURE THAT INDIVIDUAL COLUMNS AND DOORS ARE SUITABLY MATCHED AND MARKED.
10. EQUIPMENT ACCESS DOOR TO BE PROVIDED (DETAIL C) HAVING 'TAMPER PROOF' LOCKING DEVICE. DOOR ACCESS SCREW TO BE M10 STAINLESS STEEL I.S.O. METRIC BUTTON HEAD SOCKET TYPE.
11. ALL COLUMNS ARE TO BE MANUFACTURED TO ACCEPT THE MOUNTING OF OUTREACHES AS SHOWN ON SHEET E11.
12. ALL POLE MANUFACTURERS SHALL COMPLY WITH ISO 3834.

WIND LOADING CRITERIA

| TERRAIN CATEGORY | A4 | B | C |
|---|---|---|---|
| ULTIMATE LIMIT STATE | AVERAGE RECURRENCE INTERVAL OF 500 YEARS WITH $V_{500}$ = 45m/s | AVERAGE RECURRENCE INTERVAL OF 500 YEARS WITH $V_{500}$ = 57m/s | AVERAGE RECURRENCE INTERVAL OF 500 YEARS WITH $V_{500}$ = 69.3m/s |
| SERVICEABILITY LIMIT STATE | AVERAGE RECURRENCE INTERVAL OF 25 YEARS WITH $V_{25}$ = 37m/s | AVERAGE RECURRENCE INTERVAL OF 25 YEARS WITH $V_{25}$ = 39m/s | AVERAGE RECURRENCE INTERVAL OF 25 YEARS WITH $V_{25}$ = 47m/s |
| DESIGN HEIGHT | AS APPROPRIATE FOR THE POLE | | |
| TERRAIN CATEGORY | AS DETERMINED BY STRUCTURAL ENGINEER AS APPROPRIATE FOR THE SITE | | |
| $M_{Z,CAT}$ | AS DETERMINED BY STRUCTURAL ENGINEER FOR THE HEIGHT AND TERRAIN CATEGORY | | |
| $M_S$ | 1 | 1 | 1 |
| $M_T$ | AS DETERMINED BY STRUCTURAL ENGINEER FOR THE LOCAL TOPOGRAPHY | | |
| $M_D$ | AS DETERMINED BY STRUCTURAL ENGINEER AS APPROPRIATE FOR THE WIND DIRECTION | AS DETERMINED BY STRUCTURAL ENGINEER AS APPROPRIATE FOR THE ELEMENT UNDER CONSIDERATION | |

SCALE: N.T.S.

| No. | DESCRIPTION | DATE | INIT. | DEPT/COMPANY. |
|---|---|---|---|---|
| 0 | ISSUED AS A STANDARD DRAWING | AUG 2020 | CJ | AF |

AMENDMENTS

| | |
|---|---|
| DRAWN C J<br>DATE AUGUST 2020 | CHECKED PB<br>DATE AUGUST 2020 |
| DESIGNED C J<br>DATE AUGUST 2020 | CHECKED PB<br>DATE AUGUST 2020 |
| DESIGN PROJECT LEADER PB<br>DATE AUGUST 2020 | NTG PROJECT MANAGER N/A<br>DATE AUGUST 2020 |

Northern Territory Government

SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS
LIGHTING

STEEL COLUMNS - 5.5M TAPERED POST TOP TYPE
TYPICAL DETAILS

| NTG PROJECT No. | NTG ASSET No. | SHEET No. | NTG DRAWING No. | AMENDMENT | SHEET SIZE |
|---|---|---|---|---|---|
| - | - | 06 OF 16 | SS5005 | 0 | A1 |