

GENERAL:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH CONTRACT DOCUMENTS AND REFER ANY DISCREPANCIES TO THE SUPERINTENDENT.
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND FABRICATION.
- DO NOT OBTAIN DIMENSIONS BY SCALING FROM THE DRAWINGS.
- REFER TO CIVIL DRAWINGS FOR DETAILS OF THE SITE SPECIFIC REQUIREMENTS FOR EACH BUS SHELTER.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE (U.N.O.). WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT STANDARDS ASSOCIATION OF AUSTRALIA (SSA) CODES AND RELEVANT BUILDING AUTHORITY.
- ALL CIRCULATION SPACES, SIGNAGE, SURFACE INDICATORS (TGSIs), GRABRAILS, DIMENSIONS AND STANDARD LAYOUT FOR DISABILITY ACCESS AND MOBILITY SHALL COMPLY WITH THE CURRENT VERSION OF AS 1428.1-2009 AND DISABILITY DISCRIMINATION ACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURE DURING INSTALLATION AND PROVIDE ADEQUATE PROPPING, SUPPORT AND SAFETY BARRIERS/FENCING AS REQUIRED ON SITE
- WHERE DTC STANDARDS ARE REFERENCED THESE REFER TO STANDARDS WITHIN THE NORTHERN TERRITORY DEEM TO COMPLY MANUAL PREPARED BY THE DEPARTMENT OF INFRASTRUCTURE, PLANNING & LOGISTICS.
- BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE WITHOUT A BUILDING APPROVAL BEING ISSUED.
- THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LOADS (TO AS 1170.2-2011 PARTS 1 & 2).

WIND LOADS (IN ACCORDANCE WITH AS 1170.2-2011)	
IMPORTANCE LEVEL	2
Ms, Mt	1, 1
WIND REGION	C
REGIONAL WIND SPEED; V500 V20	69.3m/s (ULS) 45m/s (SLS)
TERRITORY CATEGORY	2
INTERNAL PRESSURE COEFFICIENT (Cp)	-
LIVE LOADS (IN ACCORDANCE WITH AS 1170.1-2002)	
FLOOR - SLAB	5kPa
THE ALLOWABLE FOUNDATION BEARING PRESSURE	100kPa

EXISTING CONDITIONS AND SERVICES:

- CONTRACTOR TO USE 'DIAL BEFORE YOU DIG' PRIOR TO COMMENCEMENT OF ANY SITE WORKS.
- CONTRACTOR TO ENSURE THAT NEW WORKS DO NOT DAMAGE ANY EXISTING SERVICES. CONTRACTOR TO LOCATE ALL EXISTING UNDERGROUND AND POTHOLE UNDERGROUND SERVICES IN THE VICINITY OF THE SITE OF WORKS. DUE CARE SHOULD BE MAINTAINED WHEN WORKING AND EXCAVATING IN ALL AREAS.

DEEM TO COMPLY (DTC) REFERENCES:

- THE FOLLOWING TABLE LISTS CLADDING PRODUCTS TO BE USED FOR THIS STRUCTURE & FIXING REQUIREMENTS IN ACCORDANCE WITH THE DTC MANUAL. EQUAL OR BETTER PRODUCTS OTHER THEN THOSE LISTED (AND COVERED BY THE DTC MANUAL) MAY SUBSTITUTE WITH WRITTEN APPROVAL FROM THE SUPERINTENDENT.

	ELEMENT	
	ROOF CLADDING	CEILING CLADDING
MANUFACTURER	BLUESCOPE LYSAGHT OR EQUIVALENT	STRAMIT OR EQUIVALENT
PRODUCT	CUSTOM ORB 0.48 BMT	LO-CLAD 0.42 BMT
DTC DRAWINGS No.	M/312/01	M/254

FOUNDATIONS:

- FOUNDATION MATERIAL (AFTER EXCAVATING) IS ASSUMED TO HAVE A SAFE BEARING CAPACITY OF 100kPa. CONTRACTOR TO VERIFY SOIL BEARING PRESSURE PRIOR TO CONSTRUCTION.
- SUB-BASE FOR SLAB ON GROUND AND BACKFILL OVER FOOTINGS SHALL BE APPROVED GRANULAR MATERIAL, COMPACTED IN LAYERS OF 150mm MAX. TO AT LEAST 95% MAXIMUM MODIFIED DRY DENSITY (MMDD) IN ACCORDANCE WITH AS 1289-2014
- SURFACE TO BE STRIPPED OF ALL ORGANIC MATTER (E.G. TOP SOIL). PROOF ROLL SUBGRADE TO 95% MMDD.
- TESTING OF MATERIALS AND FOR COMPACTION SHALL BE DETERMINED BY THE SUPERINTENDENT IF NECESSARY.
- FOUNDATIONS SHALL BE INSPECTED PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE:

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600-2009.
- ALL FORMWORK SHALL CONFORM TO AS 3610-1995. RE-SHORING IS NOT PERMITTED.
- CONCRETE CHARACTERISTICS SHALL BE AS FOLLOWS U.N.O.

STRUCTURAL ELEMENT	COMPRESSIVE STRENGTH (F'c-28 DAYS MPa)	SLUMP (mm)	MAX. AGGREGATE SIZE (mm)
MASS CONCRETE FOOTPATHS	25	65 ± 15	20
SHELTER SLAB ON GROUND	32	65 ± 15	×10 exp. agg.

* USE 50/50 QUANTITY KATHERINE AND MT BUNDY 10mm AGGREGATE, FOR EXPOSED FINISH ON THE SLAB

- THERE SHALL BE NO CHANGES OF LEVEL BETWEEN EXISTING FOOTPATH/KERB AND THE NEW CONCRETE SLAB.
- ENSURE TACTILE INDICATORS ARE SECURELY FIXED.
- DIMENSIONS OF CONCRETE ELEMENTS IN THESE DRAWINGS DO NOT INCLUDE APPLIED FINISHES THICKNESS.
- ALL FORMED EDGES AND CORNERS OF CONCRETE MEMBERS SHALL HAVE 20mm CHAMFERS U.N.O.
- NO ADMIXTURES ARE TO BE USED WITHOUT WRITTEN APPROVAL OF THE SUPERINTENDENT.
- ALL CONCRETE TO BE COMPACTED USING MECHANICAL VIBRATION.
- NO HOLES OR CHASES OTHER THEN THOSE SHOWN ON THESE DRAWINGS SHALL BE MADE IN CONCRETE WITHOUT PRIOR APPROVAL OF THE SUPERINTENDENT.
- THE CONCRETE SLAB IN AND ATTACHED TO THE SHELTERS SHALL BE CLEANED BY ACID WASHING AND COATED TO PROVIDE A IMPERVIOUS SURFACE WITH 2 COATS OF CLEAR SOLVENT SEALER AS PER MANUFACTURERS DIRECTIONS.

COLOUR SCHEDULE:

STRUCTURE COLUMNS - GRAPHITE GREY - AUSTRALIAN STANDARD COLOUR - N65
 STRUCTURE ROOF BEAMS - BLUE JADE - AUSTRALIAN STANDARD COLOUR - T24
 SEAT STRUCTURE - SILVER GREY - AUSTRALIAN STANDARD COLOUR - N24
 FRONT LEADING EDGE - GOLDEN YELLOW - AUSTRALIAN STANDARD COLOUR - Y14

SOLAR LIGHTING

OPERATING COMPONENTS FOR BUS SHELTER SOLAR LIGHTS

- 1 x 80W SOLAR MODULE
- 1 x PV x 690T AGM BATTERY
- 1 x MORNING STAR SOLAR REGULATOR/TIMER
- TRI-LOBIAL SECURITY BOLTS
- UV POLYCARBONATE LENS

LIGHT TO COME ON AT 1800hrs TO 24:00hrs & ON AGAIN 0500hrs TO 0700hrs

TACTILE NOTES:

PROVIDE TILE TACTILE GROUND SURFACE INDICATORS (TGSIs) AND INSTALL IN ACCORDANCE WITH MANUFACTURER SPECIFICATION AND COMPLY WITH CURRENT AS 1428.1 REQUIREMENT. USE SURFACE APPLIED TILES ON EXISTING CONCRETE SURFACES AND CAST IN TILES ON NEW CONCRETE. CONFIRM CONTRAST COLOR WITH SUPERINTENDENT PRIOR TO INSTALLATION.

STEELWORK:

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100-1998 AND AS 1554-2014, BUILDING CODE OF AUSTRALIA (BCA) AND NT WORK SAFE REGULATIONS.
- ALL WELDS TO BE 6mm CONTINUOUS SPECIAL CLASS FILLET WELDS U.N.O.
- ALL WELDS SHALL BE PREFORMED BY A QUALIFIED WELDER IN ACCORDANCE WITH AS 1554-2014 AND WITH E41XX ELECTRODES AND MAGNETIC PARTICLE TESTED.
- ALL BOLT TYPES (AND DESIGNATIONS WHERE USED) SHALL BE AS FOLLOWED:
 - 4.6/S - COMMERCIAL BOLTS TO AS 1111-2015 AND AS 1112-2015 SNUG TIGHT.
 - 4.8/S - HIGH STRENGTH STRUCTURAL BOLTS, NUTS AND HARDENED WASHERS TO AS 1252-1996, SNUG TIGHTLY ONLY.
- ALL BOLTS, NUTS AND WASHERS INCLUDING H.D. BOLTS/REQ ARE TO BE TOP DIP GALVANISED. ALL CAST-IN FERRULES AND CHEMICAL ANCHORS TO BE PASSIVATED ZINC COATED. ALL GALVANISED COMPONENTS CAST-IN TO CONCRETE MUST BE PASSIVATED.
- ALL STEELWORK SHALL HAVE STEEL GRADE AS FOLLOWS:
- ALL STRUCTURAL STEELWORK SHALL BE DEGREASED, GRIT BLASTED TO CLASS 2.5 AND SHOP PRIMED WITH ONE COAT OF INORGANIC ZINC SILICATE 75 MICRONS THICK IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
- FINISH COATS TO STEELWORK TO BE HIGH GLOSS 2 COATS ZINC RICH TWO PACK AND TO BE COMPATIBLE WITH PRIMER AND IN ACCORDANCE WITH COLOR SCHEDULE AND SPECIFICATIONS.

STEEL MEMBER	STEEL GRADE	CORRESPONDING STANDARD
HOT ROLLED PLATES	250	AS 3678-2016
HOT ROLLED STEEL SECTIONS	300	AS 3679-2016
RECTANGULAR & SQUARE HOLLOW SECTIONS	350	AS 1163-2016

DRAWING SCHEDULE

BUS SHELTER TYPE MODULE	DRAWING NUMBER	DRAWING SHEET TITLE
TYPE 15A	CS-3725	GENERAL NOTES
	CS-3726	TYPICAL PLAN, SECTION AND ELEVATION
	CS-3727	TYPICAL SLAB & CEILING PLAN
	CS-3728	MISCELLANEOUS DETAILS

DRAWING IS TYPICAL ONLY. OBTAIN BUILDING PERMIT BEFORE CONSTRUCTION.

<p>WARNING BEWARE OF UNDERGROUND SERVICES. THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.</p>				<p>CONCURRED STRUCTURAL ONLY NORTHERN TERRITORY GOVERNMENT DEPARTMENT OF INFRASTRUCTURE, PLANNING & LOGISTICS Level 4, Highway House, Palmerston Circuit, Palmerston PO Box 61, Palmerston NT 0831 Signed: <i>Jorge Mu</i> 15/07/19 Registration No.: 33896ES</p>		<p>DRAWN DW DATE 18.09.18 DESIGNED JM DATE 18.09.18 DESIGN LEADER DATE</p>		<p>CHECKED DATE CHECKED DATE DESIGN DIRECTOR DATE</p>		<p>STANDARD DRAWINGS BUS SHELTERS & ASSOCIATED INFRASTRUCTURE</p> <p>Northern Territory Government</p> <p>SHELTER - TYPE 15A (PURLIN ROOF SYSTEM) GENERAL NOTES</p>		<p>FILE No. ASSET No. SHEET No. DRAWING No. AMEND. SHEET SIZE</p> <p>- - 1 OF 4 CS3725 1 A1</p>	
<p>1 REISSUED WITH AMENDED CERTIFICATE JUL 2019 S.SHI EES/DIPL</p>				<p>0 ISSUED AS STANDARD DRAWING OCT 2018 S.HATZI EES/DIPL</p>									
<p>No. DESCRIPTION DATE NAME DEPT/COMPANY</p>				<p>AMENDMENTS</p>									