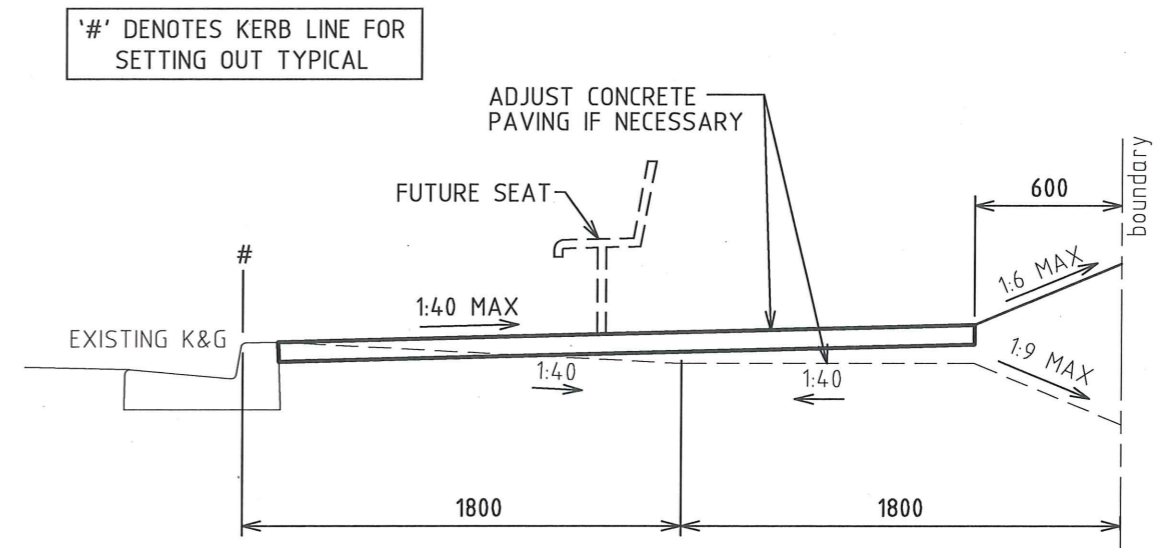




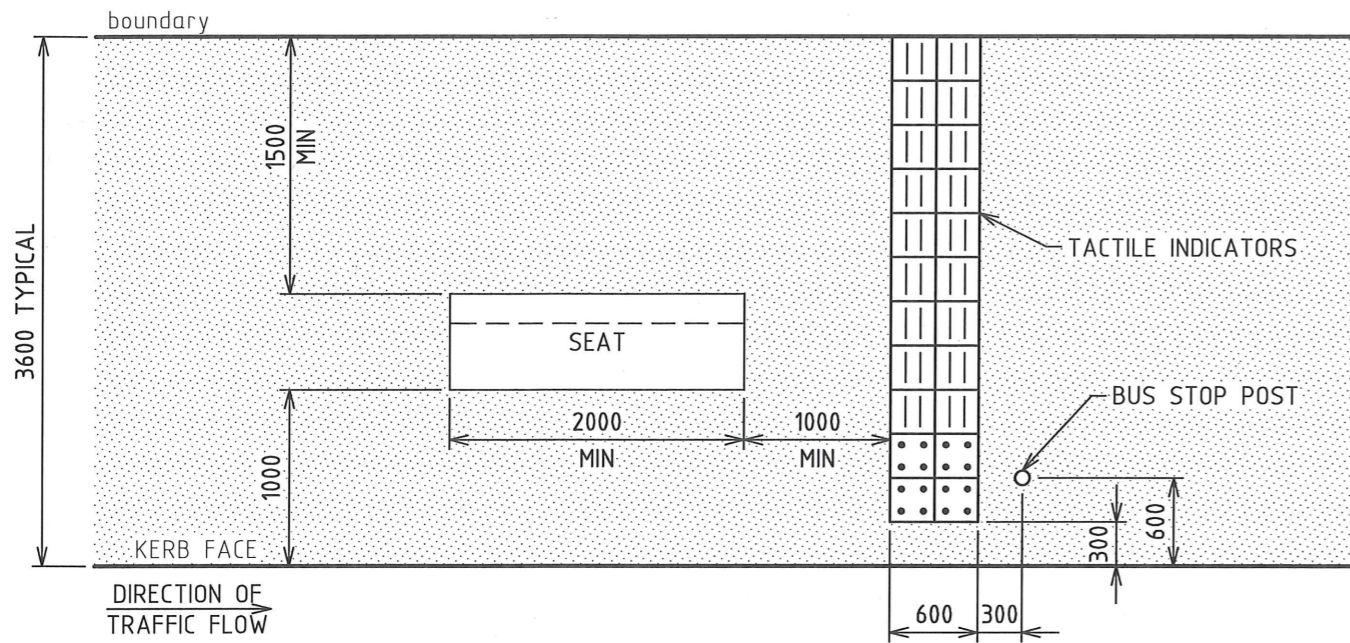
TRANSPORT SEATS
BOARDING PAD - RESIDENTIAL AREAS WITH NO PAVING
SCALE 1:50



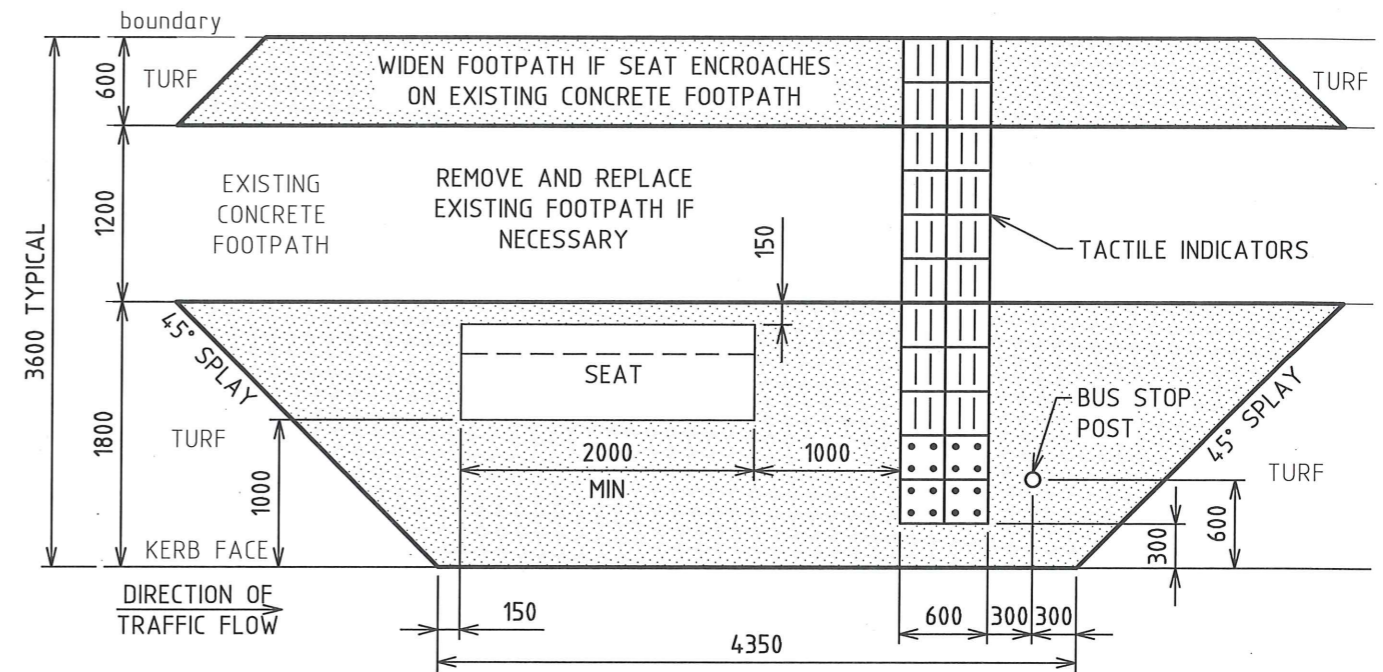
TRANSPORT SHELTERS
TYPICAL BOARDING PAD SECTION
SCALE 1:30

REFER TO SHEET 7 FOR NOTES

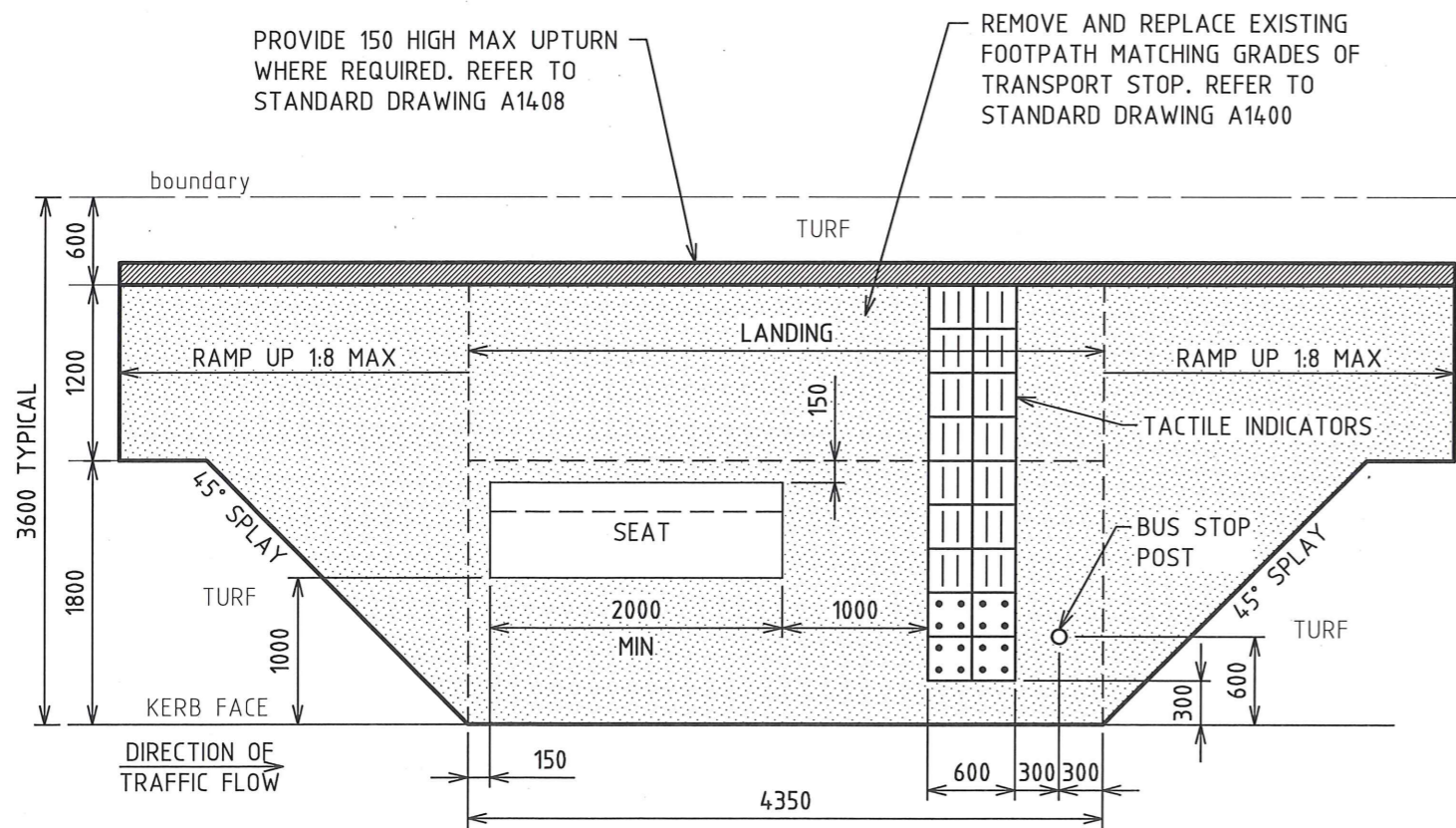
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2	GENERAL REVISION	05.07.16	T.A.	AS SHOWN		SIGNED:  INFRASTRUCTURE MANAGEMENT SERVICES MANAGER DATE: 29.09.2016		A1500	1 OF 7 SHEETS
1	GENERAL REVISION	18.08.15	T.A.						
0	CONSTRUCTION	29.04.14	T.A.						
No.	AMENDMENT DETAILS	DATE	INITIALS		REVIEWED: J.C.			AMENDMENT No.	
A3 ORIGINAL THIS SHEET WAS PREPARED IN COLOUR AND WILL BE INCOMPLETE IF COPIED				COORDINATE SYSTEM:	HEIGHT DATUM: AHD				



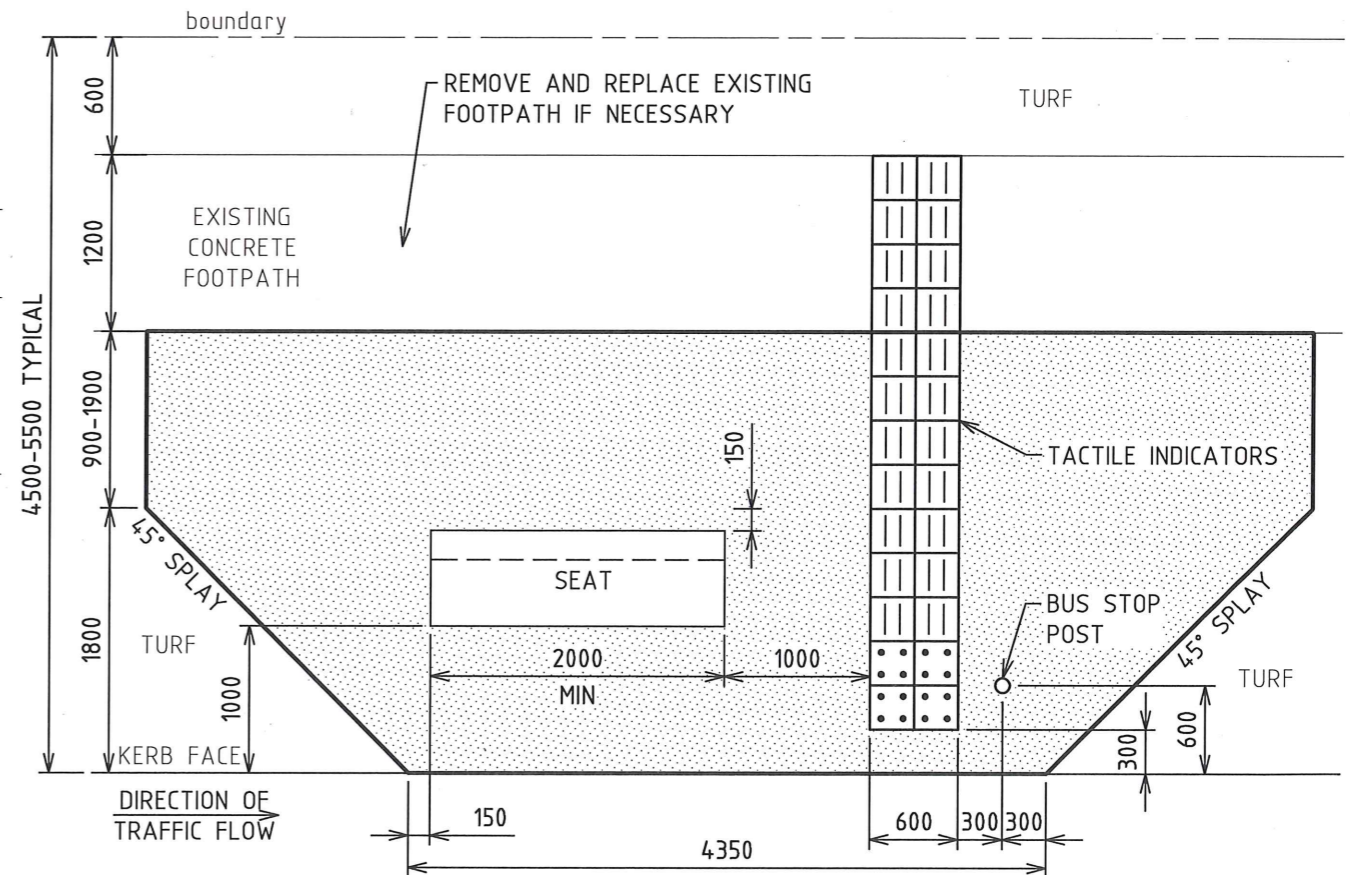
TRANSPORT SEATS
 COMMERCIAL AREAS WITH FULL WIDTH PAVING
 SCALE 1:50



TRANSPORT SEATS
 RESIDENTIAL AREAS WITH STRIP PAVING (EXISTING FOOTPATH REMAINS)
 SCALE 1:50



TRANSPORT SEATS
 RESIDENTIAL AREAS WITH STRIP PAVING (REMOVE AND REPLACE EXISTING FOOTPATH)
 SCALE 1:50



TRANSPORT SEATS
 RESIDENTIAL AREAS WITH 4.5m TO 5.5m WIDE FOOTWAYS
 SCALE 1:50

REFER TO SHEET 7 FOR NOTES

No.	AMENDMENT DETAILS	DATE	INITIALS
2	GENERAL REVISION	05.07.16	T.A.
1	GENERAL REVISION	18.08.15	T.A.
0	CONSTRUCTION	29.04.14	T.A.

SCALE
 AS SHOWN

COORDINATE SYSTEM: HEIGHT DATUM: AHD

REVIEWED: J.C.

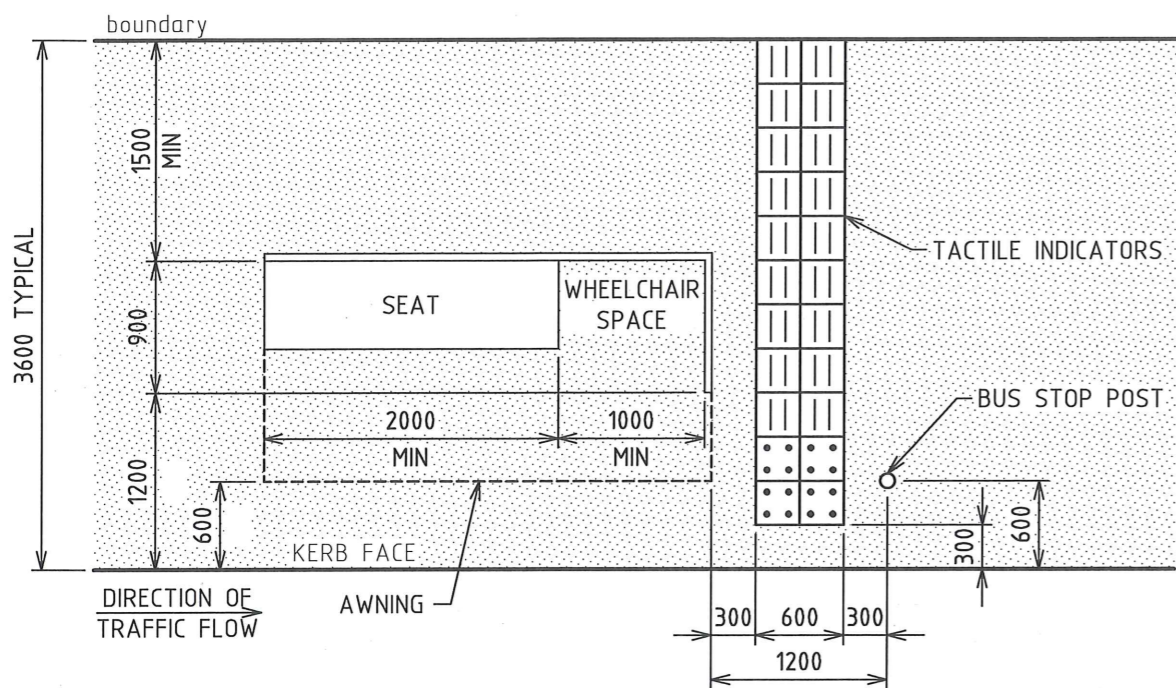
APPROVED: *[Signature]*

SIGNED: _____
 INFRASTRUCTURE MANAGEMENT SERVICES MANAGER
 DATE: 29.09.2016

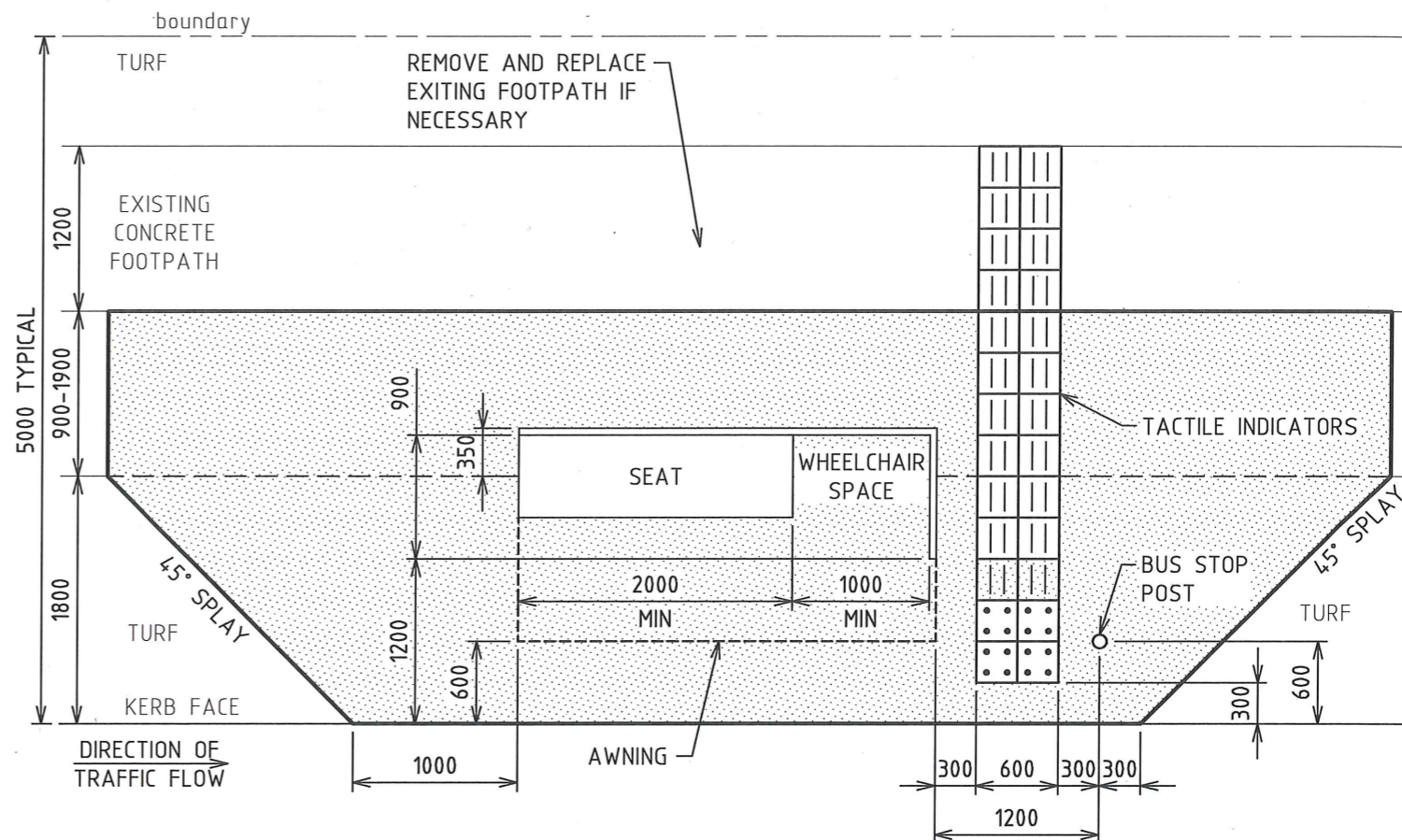
THE CITY OF NEWCASTLE

TRANSPORT STOPS
 SETOUT DETAILS

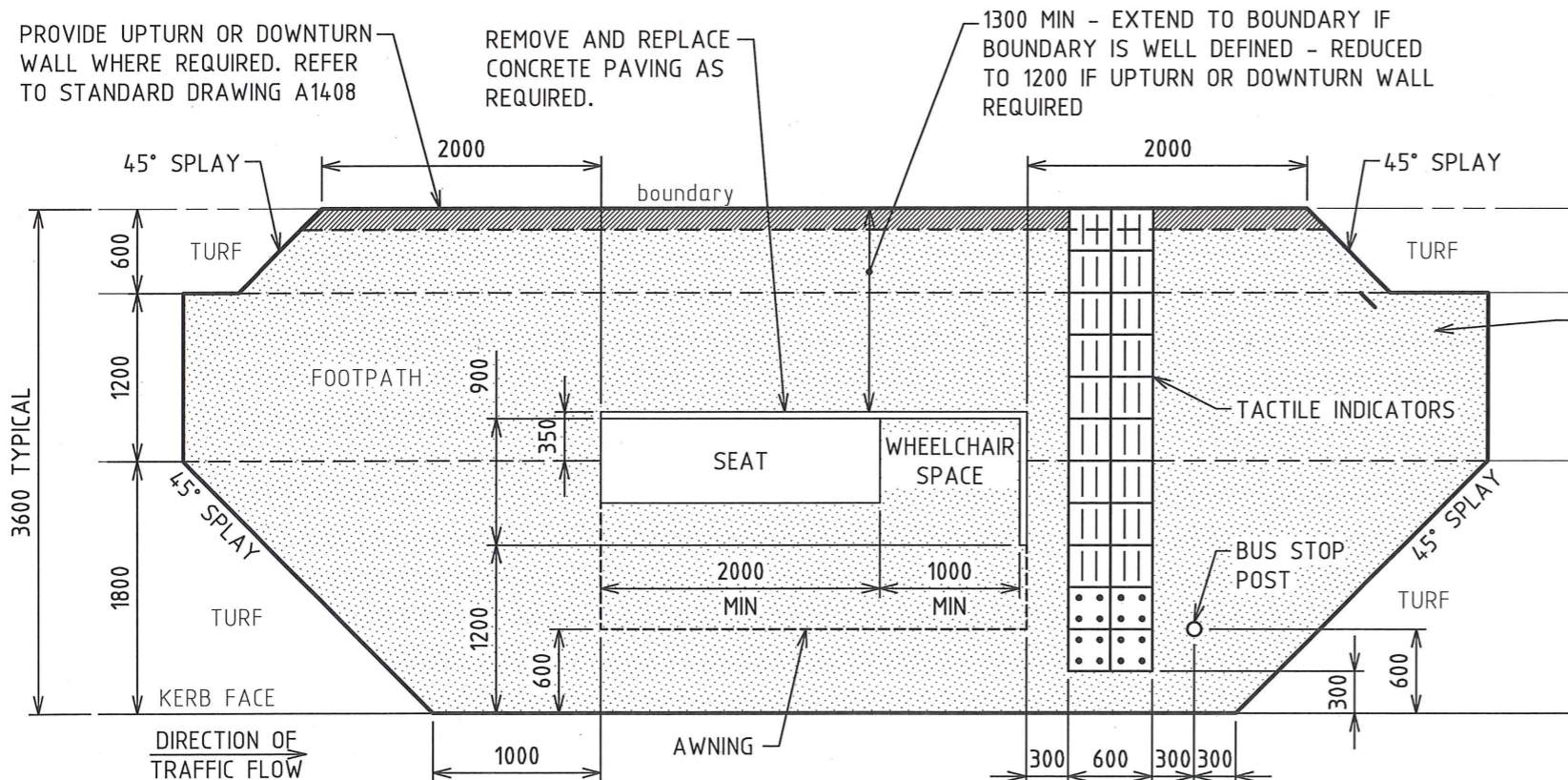
NCC PLAN No.	SHEET No.
A1500	2
	OF
	7
AMENDMENT No.	SHEETS



TRANSPORT SHELTERS
COMMERCIAL AREAS WITH FULL WIDTH PAVING
SCALE 1:50



TRANSPORT SHELTERS
RESIDENTIAL AREAS WITH 4.5m TO 5.5m WIDE FOOTWAYS
SCALE 1:50



TRANSPORT SHELTERS
RESIDENTIAL AREAS WITH STRIP PAVING
SCALE 1:50

REMOVE AND REPLACE EXISTING FOOTPATH MATCHING GRADES OF TRANSPORT STOP. REFER TO STANDARD DRAWING A1400

REFER TO SHEET 7 FOR NOTES

No.	AMENDMENT DETAILS	DATE	INITIALS
2	GENERAL REVISION	05.07.16	T.A.
1	GENERAL REVISION	18.08.15	T.A.
0	CONSTRUCTION	29.04.14	T.A.

SCALE
AS SHOWN

COORDINATE SYSTEM:
HEIGHT DATUM: AHD

INFRASTRUCTURE MANAGEMENT SERVICES

REVIEWED: J.C.

APPROVED:

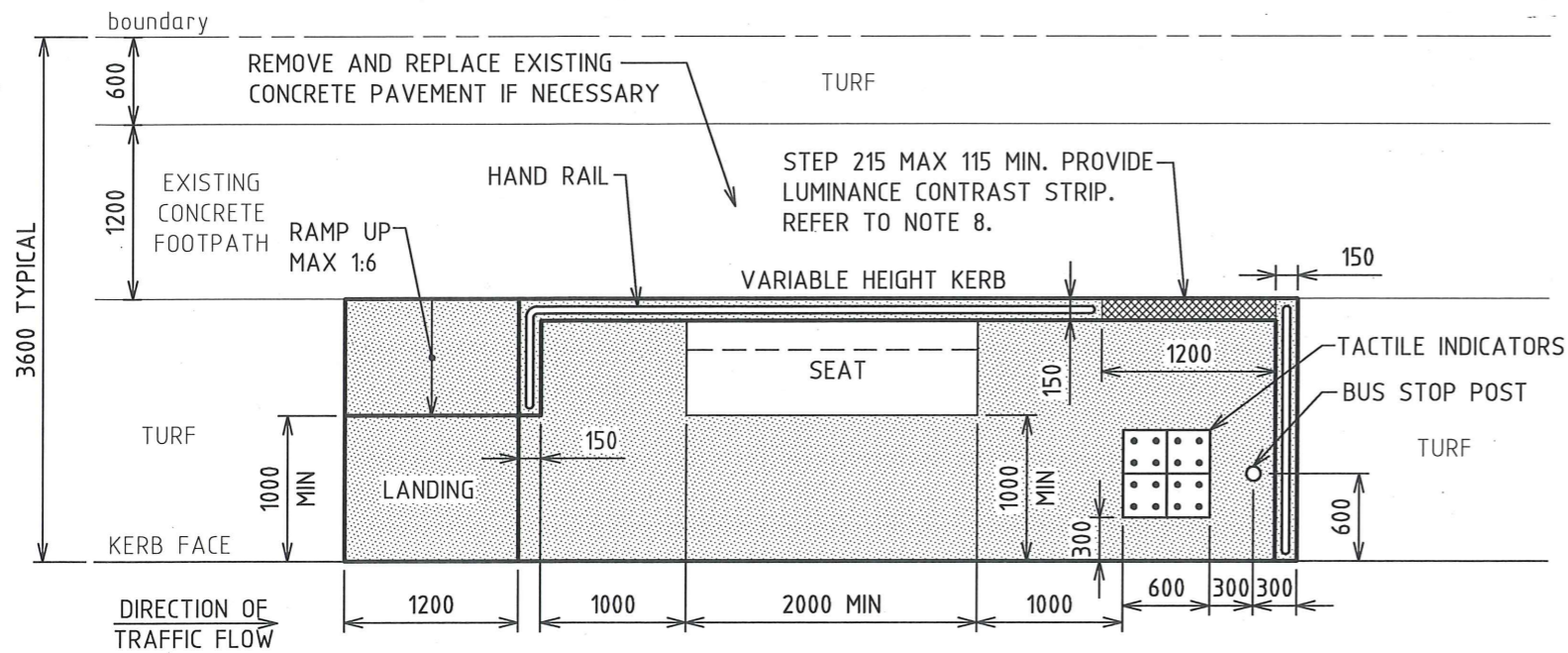
SIGNED: INFRASTRUCTURE MANAGEMENT SERVICES MANAGER
DATE: 29.09.2016

THE CITY OF NEWCASTLE

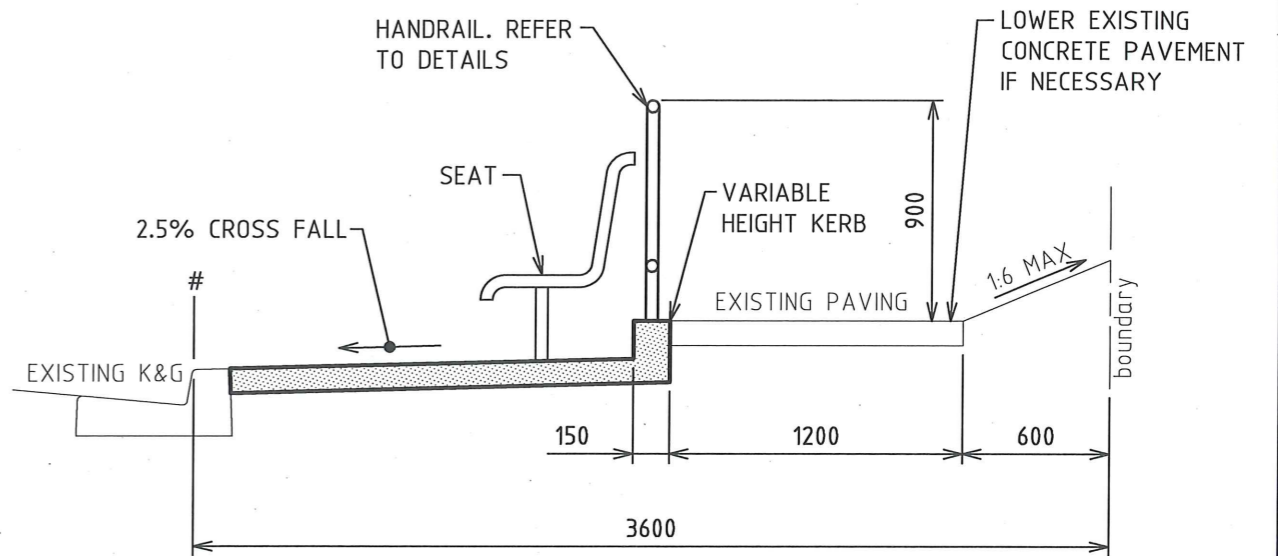
TRANSPORT STOPS
SETOUT DETAILS

NCC PLAN No.	SHEET No.
A1500	3
	OF
	7
AMENDMENT No.	SHEETS

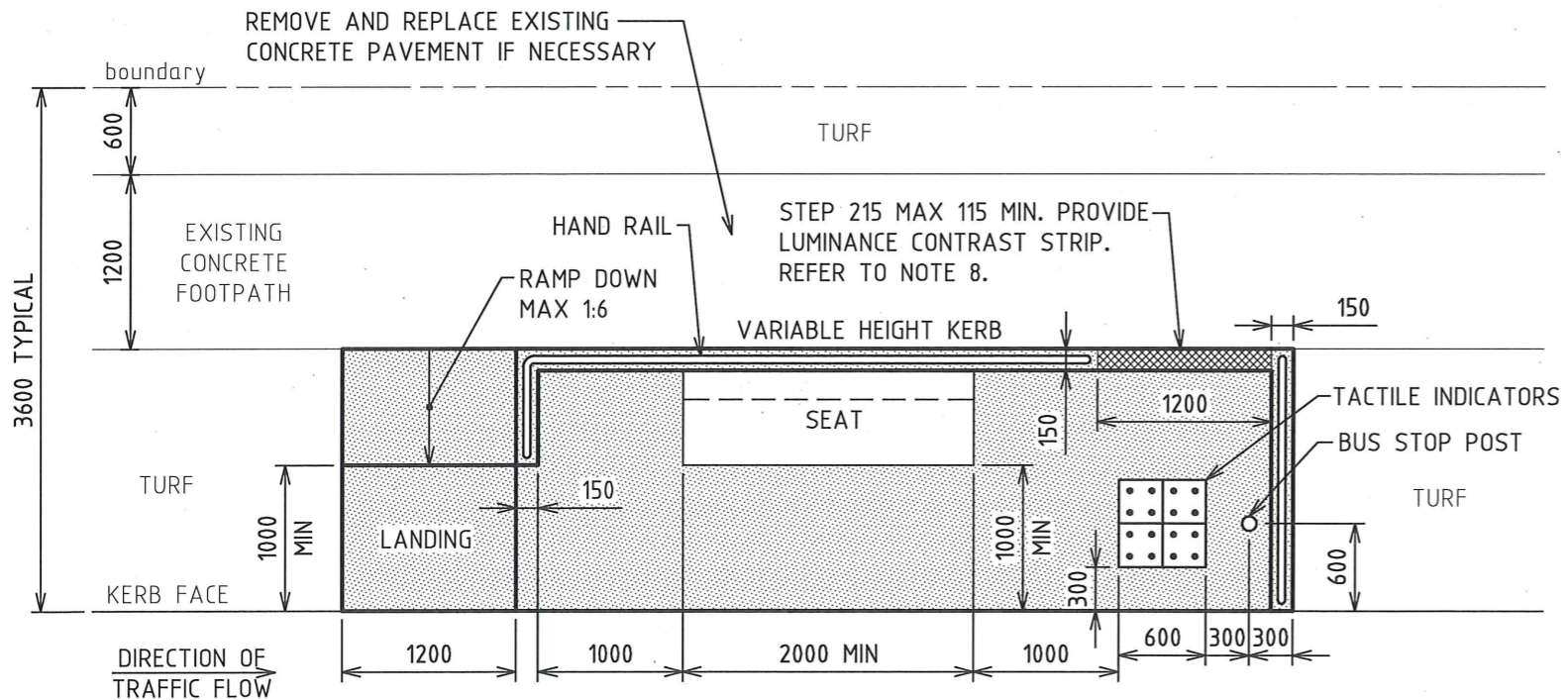
'#' DENOTES KERB LINE FOR SETTING OUT TYPICAL



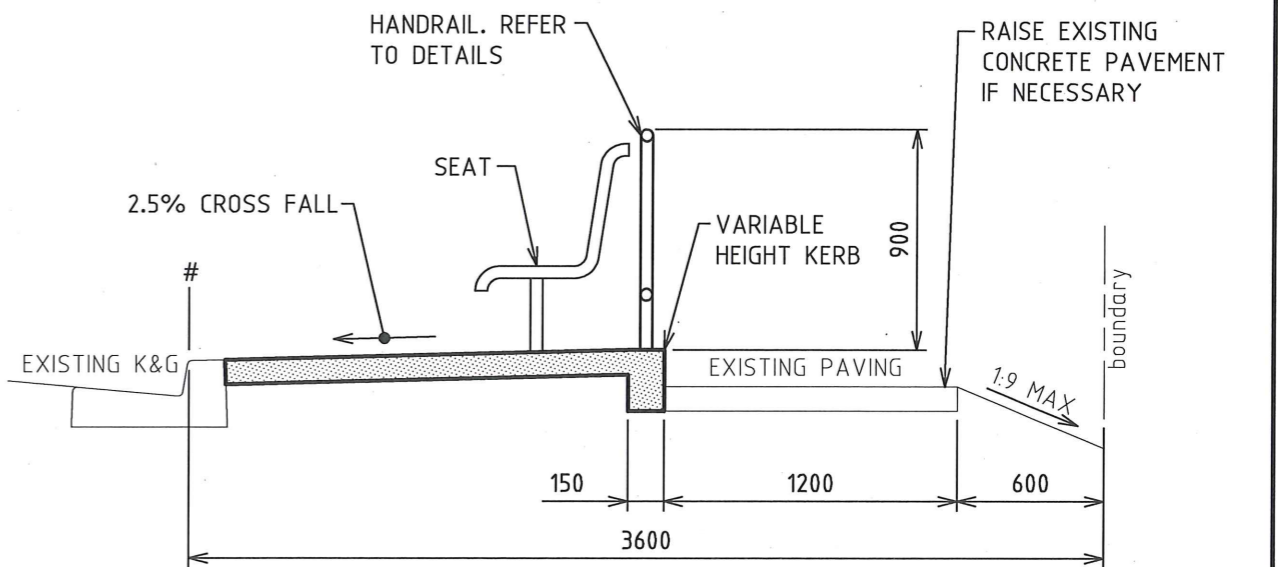
TRANSPORT SEATS
HIGH LEVEL FOOTWAY CROSS FALL TYPICAL TREATMENT
SCALE 1:50



TRANSPORT SEATS
TYPICAL HIGH LEVEL FOOTWAY SECTION
SCALE 1:30



TRANSPORT SEATS
LOW LEVEL FOOTWAY CROSS FALL TYPICAL TREATMENT
SCALE 1:50




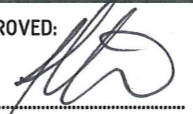
TRANSPORT SEATS
TYPICAL LOW LEVEL FOOTWAY SECTION
SCALE 1:30

REFER TO SHEET 7 FOR NOTES

No.	AMENDMENT DETAILS	DATE	INITIALS
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1	GENERAL REVISION	18.08.15	T.A.
0	CONSTRUCTION	29.04.14	T.A.

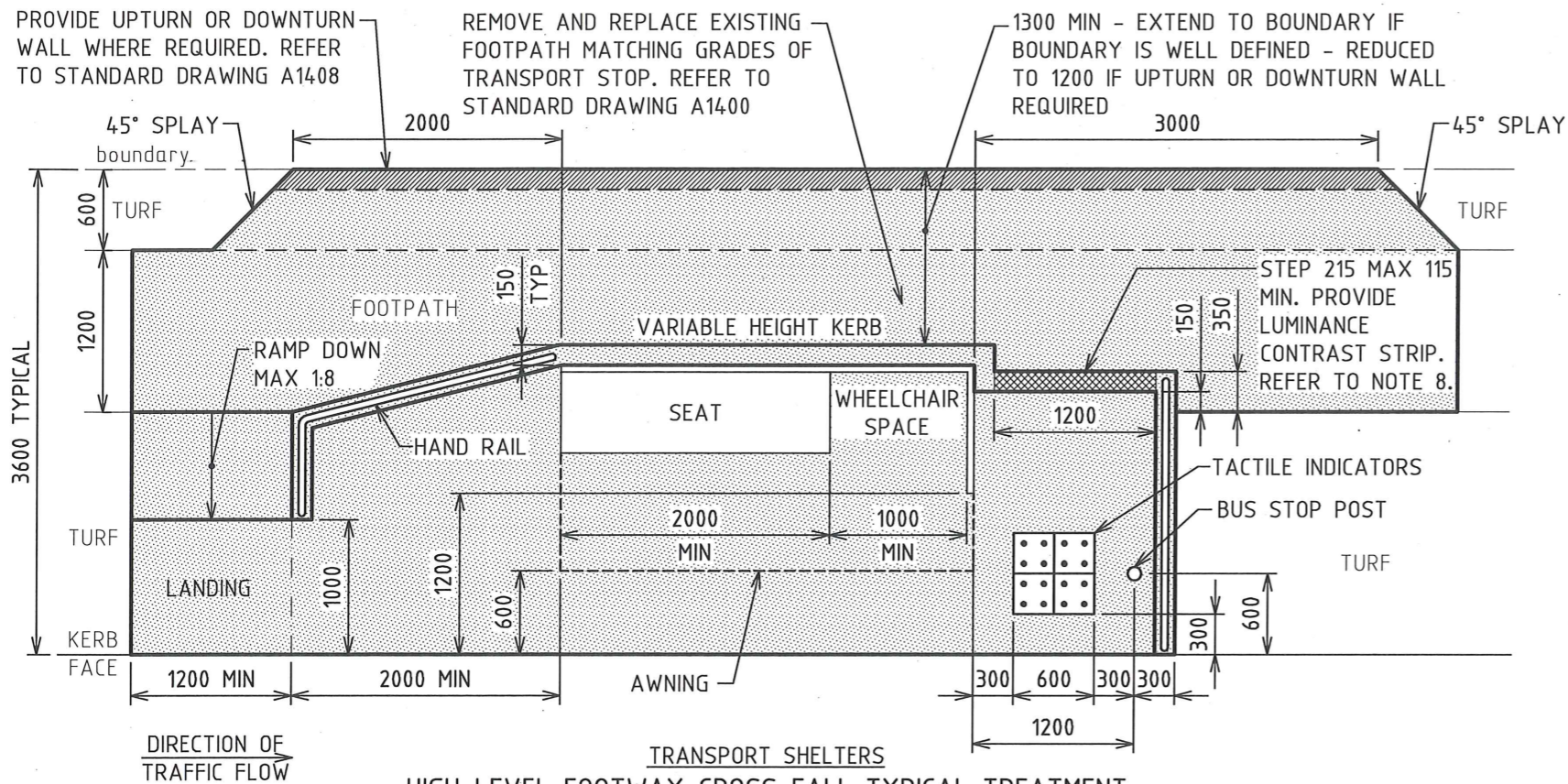
SCALE	AS SHOWN
COORDINATE SYSTEM:	HEIGHT DATUM: AHD


INFRASTRUCTURE MANAGEMENT SERVICES
 REVIEWED: J.C.

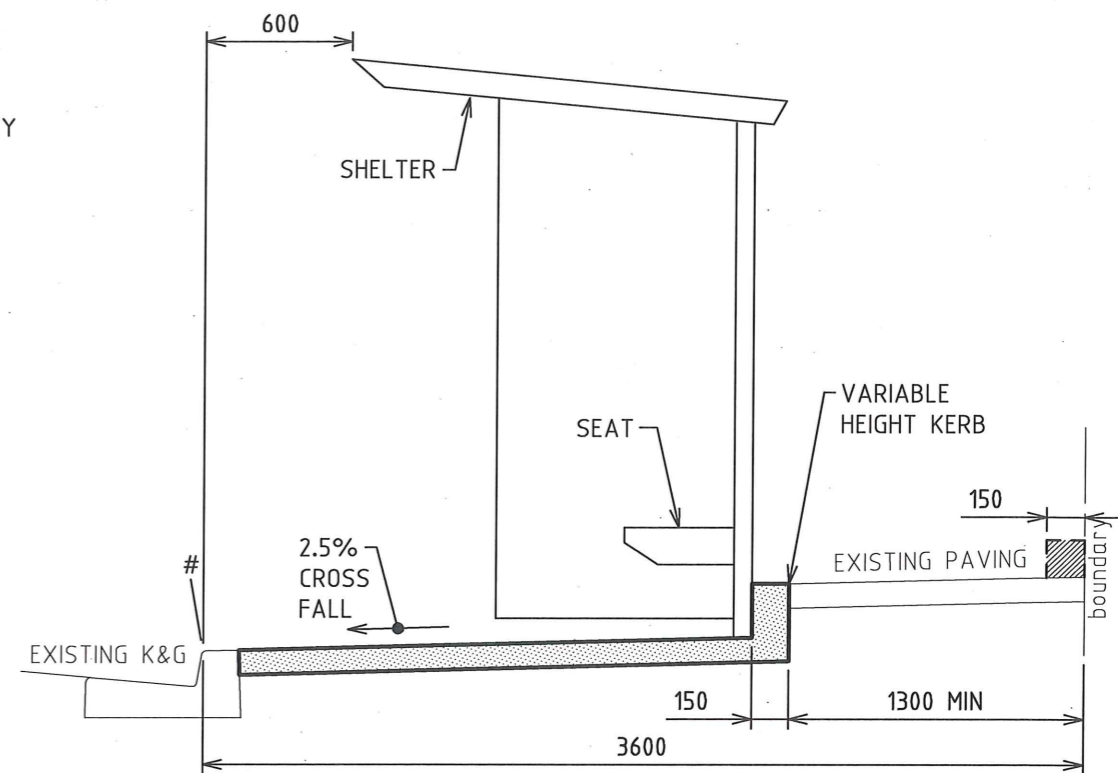
APPROVED: 
 SIGNED: _____
 INFRASTRUCTURE MANAGEMENT SERVICES MANAGER
 DATE: 29.09.2016

THE CITY OF NEWCASTLE
TRANSPORT STOPS SETOUT DETAILS

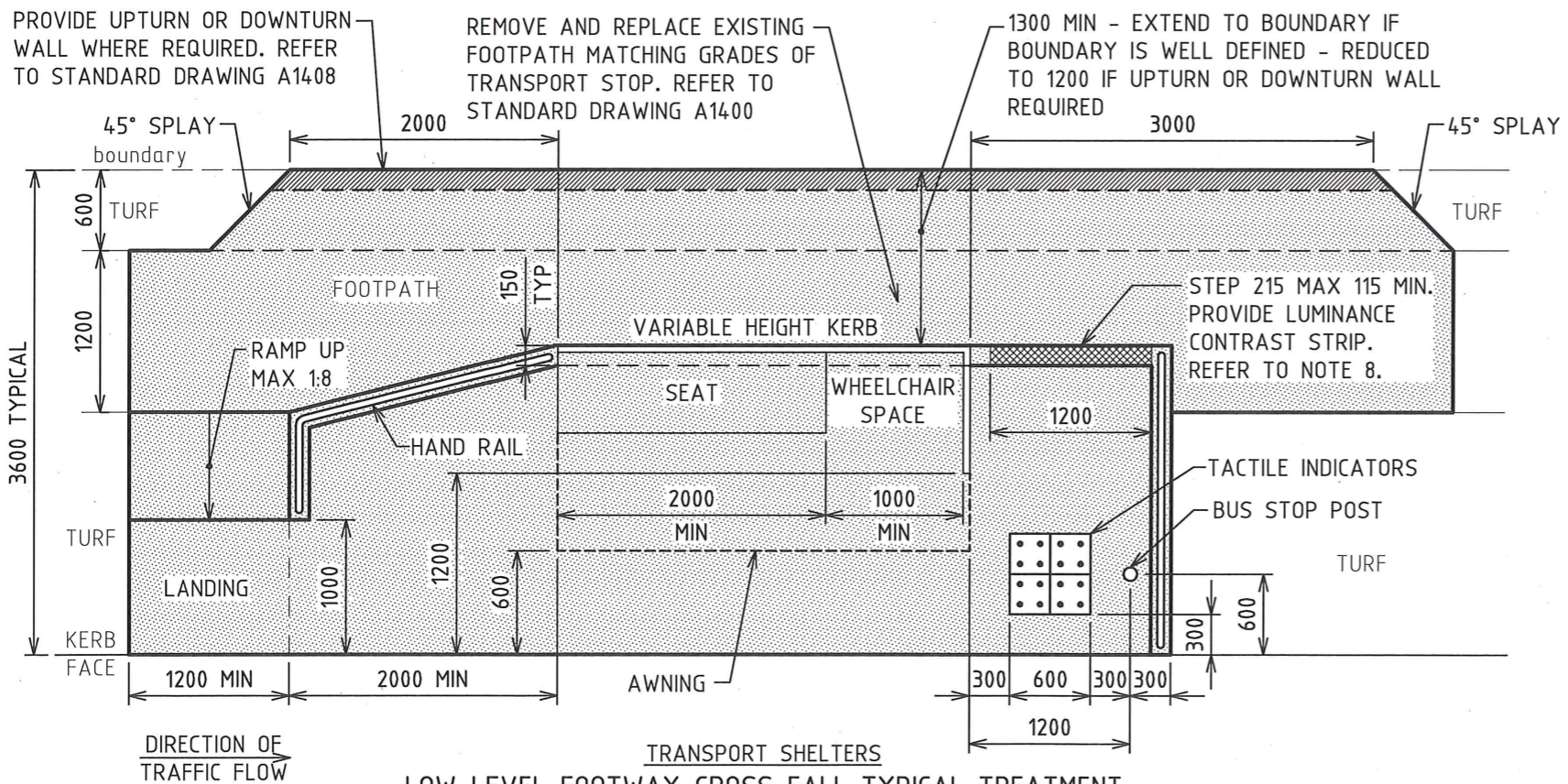
NCC PLAN No.	A1500	SHEET No.	4 OF 7 SHEETS
AMENDMENT No.			



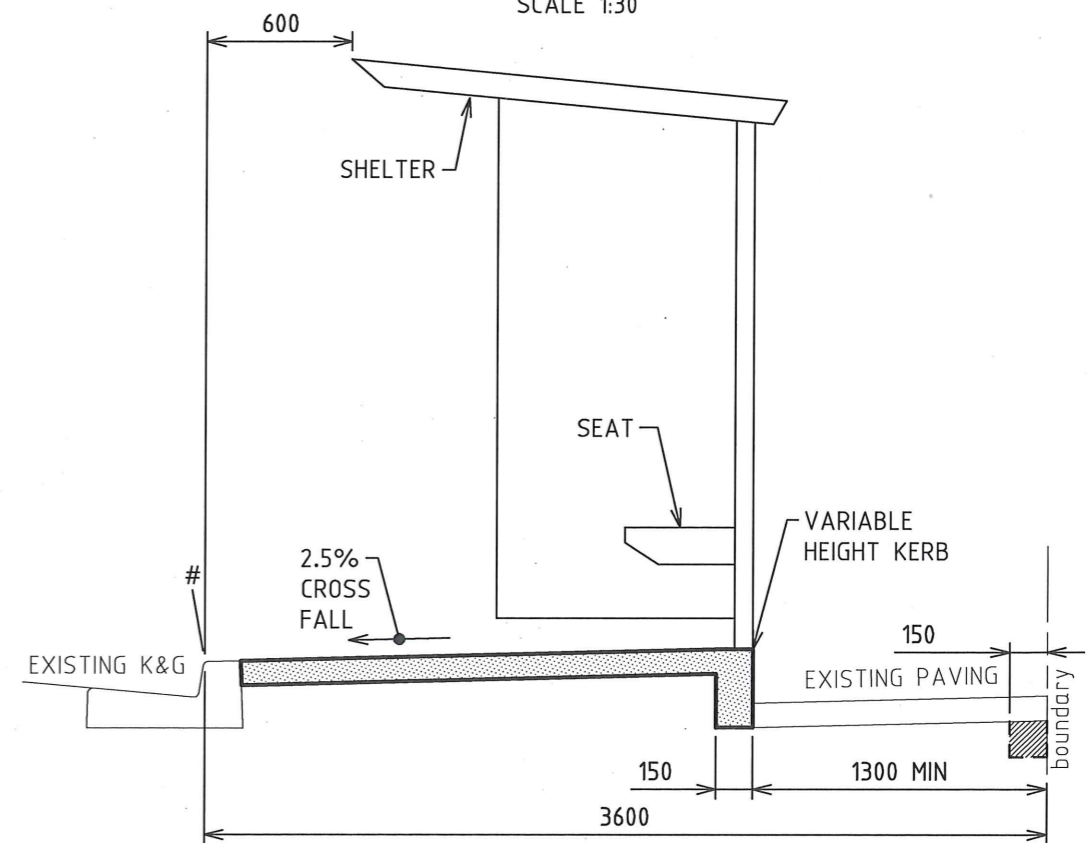
TRANSPORT SHELTERS
HIGH LEVEL FOOTWAY CROSS FALL TYPICAL TREATMENT
SCALE 1:50



TRANSPORT SHELTERS
TYPICAL HIGH LEVEL FOOTWAY SECTION
SCALE 1:30



TRANSPORT SHELTERS
LOW LEVEL FOOTWAY CROSS FALL TYPICAL TREATMENT
SCALE 1:50




TRANSPORT SHELTERS
TYPICAL LOW LEVEL FOOTWAY SECTION
SCALE 1:30

REFER TO SHEET 7 FOR NOTES

No.	AMENDMENT DETAILS	DATE	INITIALS
2	GENERAL REVISION	05.07.16	T.A.
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0	CONSTRUCTION	29.04.14	T.A.

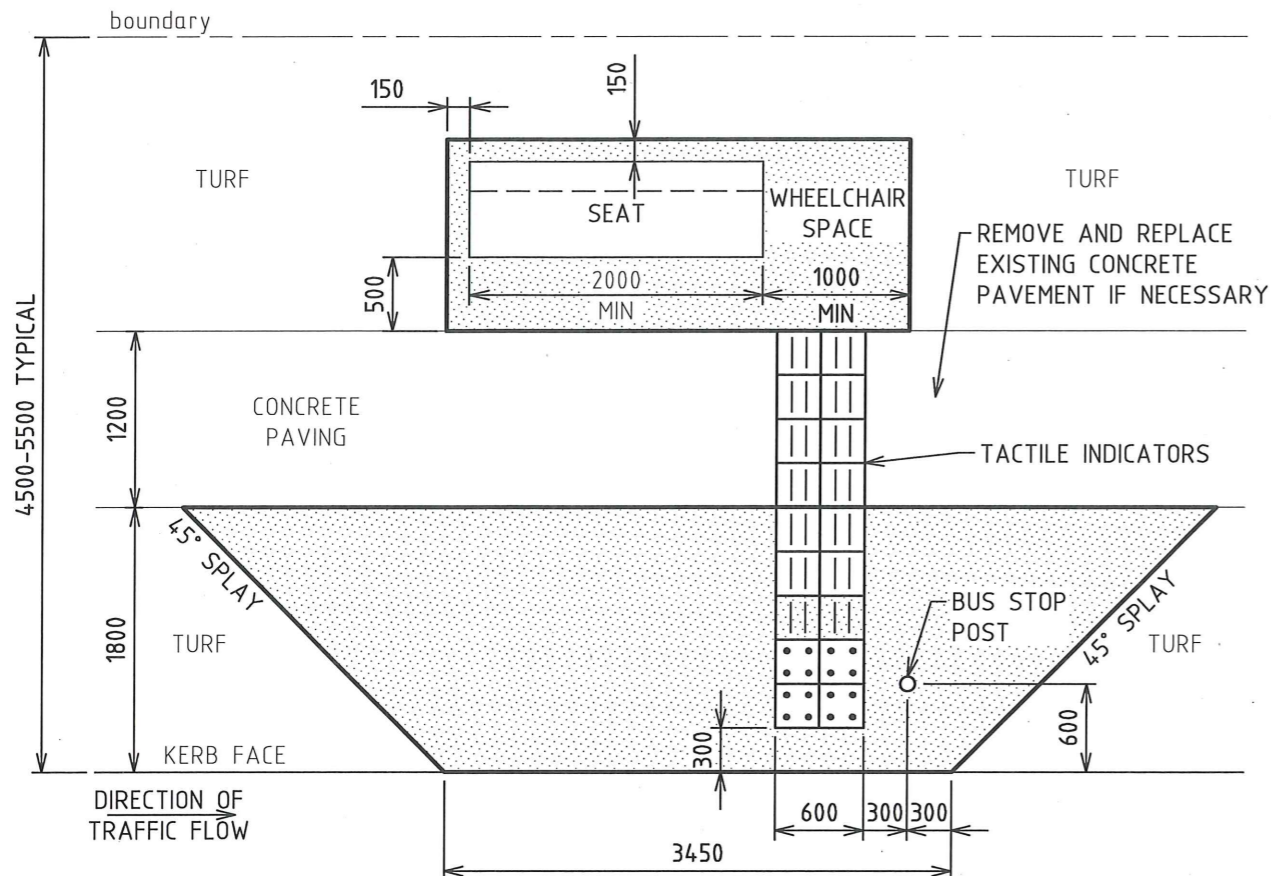
SCALE	AS SHOWN
COORDINATE SYSTEM:	HEIGHT DATUM: AHD


INFRASTRUCTURE MANAGEMENT SERVICES
 REVIEWED: J.C.

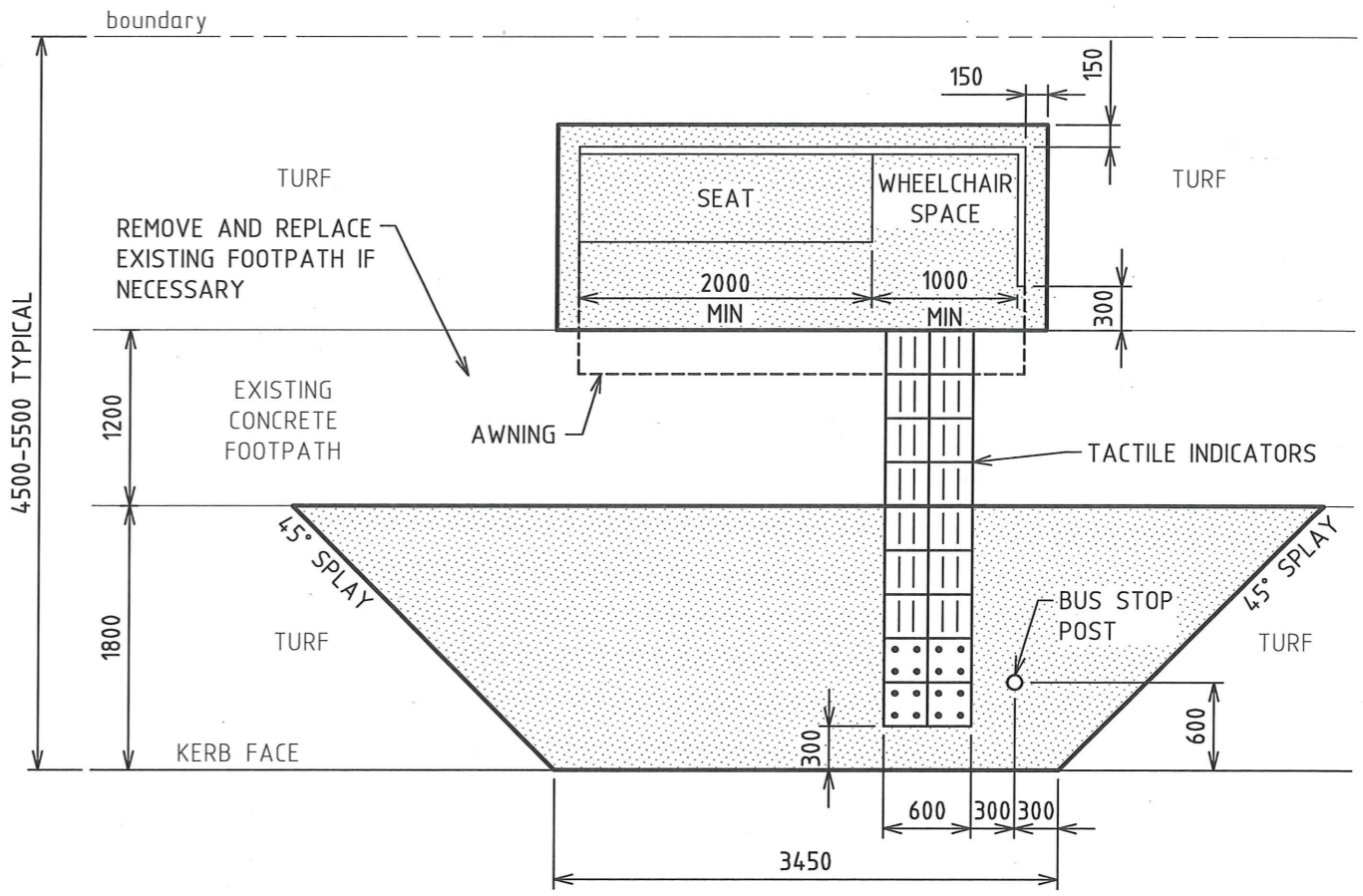
APPROVED: 
 SIGNED:
 INFRASTRUCTURE MANAGEMENT SERVICES MANAGER
 DATE: 29.09.2016

THE CITY OF NEWCASTLE
TRANSPORT STOPS SETOUT DETAILS

NCC PLAN No.	SHEET No.
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	7
AMENDMENT No.	SHEETS



TRANSPORT SEATS
 RESIDENTIAL AREAS WITH 4.5m TO 5.5m WIDE FOOTWAYS
 SCALE 1:50



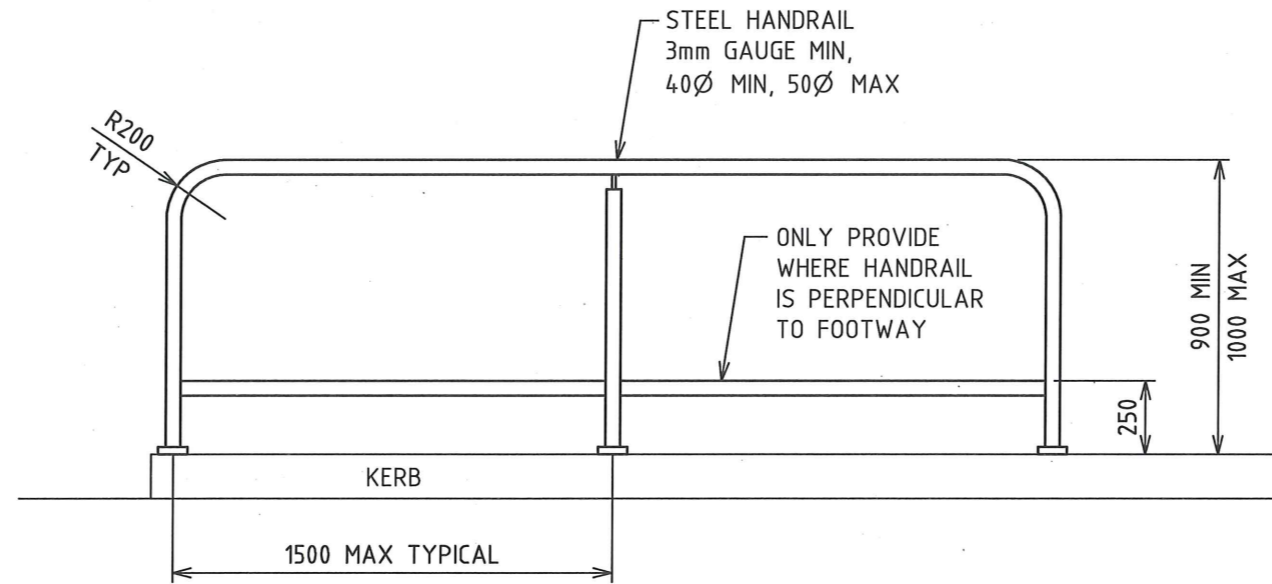
TRANSPORT SHELTERS
 RESIDENTIAL AREAS WITH 4.5m TO 5.5m WIDE FOOTWAYS
 SCALE 1:50

FOR THE CITY OF NEWCASTLE INTERNAL USE ONLY

1. THIS DRAWING IS ONLY TO BE CONSIDERED BY COUNCIL WHEN OTHER ALTERNATIVES ARE UNACHIEVABLE DUE TO SITE CONSTRAINTS. (E.G. HEIGHT VARIATIONS ACROSS EXISTING FOOTWAYS).
2. THIS DRAWING IS NOT TO BE USED FOR NEW RESIDENTIAL SUBDIVISIONS.
3. THIS DRAWING IS NOT SUITABLE WHERE 2.5m OR WIDER SHARED PATHWAYS EXIST OR ARE PROPOSED

REFER TO SHEET 7 FOR NOTES



<table border="1"> <tr> <th>No.</th> <th>AMENDMENT DETAILS</th> <th>DATE</th> <th>INITIALS</th> </tr> <tr> <td>2</td> <td>GENERAL REVISION</td> <td>05.07.16</td> <td>T.A.</td> </tr> <tr> <td>1</td> <td>GENERAL REVISION</td> <td>18.08.15</td> <td>T.A.</td> </tr> <tr> <td>0</td> <td>CONSTRUCTION</td> <td>29.04.14</td> <td>T.A.</td> </tr> </table>			No.	AMENDMENT DETAILS	DATE	INITIALS	2	GENERAL REVISION	05.07.16	T.A.	1	GENERAL REVISION	18.08.15	T.A.	0	CONSTRUCTION	29.04.14	T.A.	SCALE AS SHOWN	INFRASTRUCTURE MANAGEMENT SERVICES REVIEWED: J.C.	APPROVED: SIGNED: INFRASTRUCTURE MANAGEMENT SERVICES MANAGER DATE: 29.09.2016	THE CITY OF NEWCASTLE TRANSPORT STOPS SETOUT DETAILS	NCC PLAN No. A1500 AMENDMENT No.	SHEET No. 6 OF 7 SHEETS
No.	AMENDMENT DETAILS	DATE	INITIALS																					
2	GENERAL REVISION	05.07.16	T.A.																					
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0	CONSTRUCTION	29.04.14	T.A.																					
A3 ORIGINAL THIS SHEET WAS PREPARED IN COLOUR AND WILL BE INCOMPLETE IF COPIED		COORDINATE SYSTEM:	HEIGHT DATUM: AHD																					



FOR HIGH LEVEL AND LOW LEVEL TREATMENT AREAS
TYPICAL HAND RAIL DETAIL
 SCALE 1:25
 (REFER TO NOTE 4)

NOTES

1. NSW DEPARTMENT OF TRANSPORT MANUAL 'BUS STOP INSTALLATION GUIDE FOR LOCAL COUNCILS' HAS BEEN REFERENCED IN THE PREPARATION OF THIS DRAWING. (WITH SOME AMENDMENTS TO MINIMUM DIMENSIONS FOR OFFSETS).
2. ANY PROPOSED VARIATIONS TO THIS DRAWING MUST BE APPROVED BY COUNCIL'S INFRASTRUCTURE PLANNING BUSINESS UNIT.
3. MAXIMUM FOOTWAY CROSS FALL AT TRANSPORT STOPS SHALL BE 2.5% (1:40)
4. WHERE POSSIBLE ADJUST EXISTING FOOT PAVING PAVING TO SUIT NEW BOARDING PAD LEVELS BEFORE CONSIDERING THE SPLIT LEVEL OPTIONS DETAILED ON SHEET 2. CROSS FALL OVER LAST 600MM, ADJACENT TO PROPERTY BOUNDARY, MAY BE STEEPENED TO 25% (1:4)
5. IN SITES WITHOUT CONCRETE FOOT PAVING FOOTWAY LEVELS TO BE ADJUSTED TO SUIT FINISHED LEVELS OF BOARDING PAD AND CROSS FALL OVER LAST 600MM STEEPENED TO 1 IN 4 (25%)
6. CROSS FALL AT EITHER END OF BOARDING PAD MAY BE VARIED (MAXIMUM RANGE BETWEEN -2.5% AND +2.5%) WHERE LONGITUDINAL GRADE OF KERB EXCEEDS 5.0%, TO REDUCE GRADE ALONG BACK OF BOARDING PAD
7. NEW/REPLACEMENT CONCRETE FOOTWAY PAVING WORK TO BE CARRIED OUT TO THE SPECIFICATIONS SET OUT IN COUNCIL'S FORM PLE/S009
8. TACTILE GROUND SURFACE INDICATORS (TGSIs) TO COMPLY WITH AUSTRALIAN STANDARD 1428.4 - 2002 AND TO BE INSTALLED TO THE MANUFACTURER'S REQUIREMENTS. THE FOLLOWING TGSI COLORS ARE RECOMMENDED TO ACHIEVE LUMINANCE CONTRAST: "CHARCOAL" ON PLAIN CONCRETE SURFACES AND "IVORY" ON ASPHALTIC CONCRETE OR COLORED PAVER SURFACES
9. OUTSIDE DIAMETER OF STEEL HAND RAIL TO BE IN THE RANGE OF 40 TO 50mm. HEIGHT ABOVE FINISHED FOOTWAY LEVELS TO BE IN THE RANGE OF 900 TO 1000mm. MINIMUM GAUGE OF STEEL HANDRAIL PIPING TO BE 3mm. MAXIMUM SPAN BETWEEN POSTS TO BE 1.5 METERS. HANDRAIL TO COMPLY WITH AUSTRALIAN STANDARD 2312 - 2002 "GUIDE TO THE PROTECTION OF STRUCTURAL STEEL AGAINST ATMOSPHERIC CORROSION BY THE USE OF PROTECTIVE COATINGS". HAND RAIL TO BE FIXED TO TOP OF KERB USING BASE PLATES AND CHEMICAL ANCHORS
10. SEATS TO COMPLY WITH AUSTRALIAN STANDARD 1428.2 (1992) - PART 27.2, "SEATING IN PEDESTRIAN AREAS"
11. PROVIDE LUMINANCE CONTRAST STRIP TO TOP OF STEP TO THE REQUIREMENTS OF AUSTRALIAN STANDARD 1428.1 (2001) - PART 9.1 (C)
12. PROVIDE "V-LOCK" IN CONCRETE PAVING TO AID INSTALLATION OF BUS STOP "J" POST

				SCALE	 INFRASTRUCTURE MANAGEMENT SERVICES	APPROVED	THE CITY OF NEWCASTLE TRANSPORT STOPS SETOUT DETAILS	NCC PLAN No.	SHEET No.
				AS SHOWN		SIGNED:  INFRASTRUCTURE MANAGEMENT SERVICES MANAGER DATE: 29.09.2016		A1500	7 OF 7 SHEETS
2	GENERAL REVISION	05.07.16	T.A.						
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No.	AMENDMENT DETAILS	DATE	INITIALS						
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