



Gatwick Airport Northern Runway Project

Appendix E: Response to SCC's Airfield Drainage Queries – Annex A – Figures

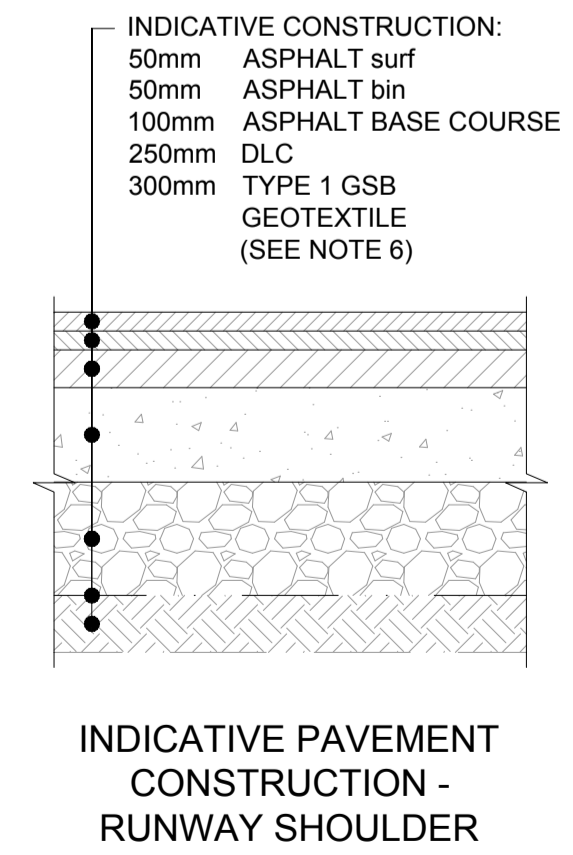
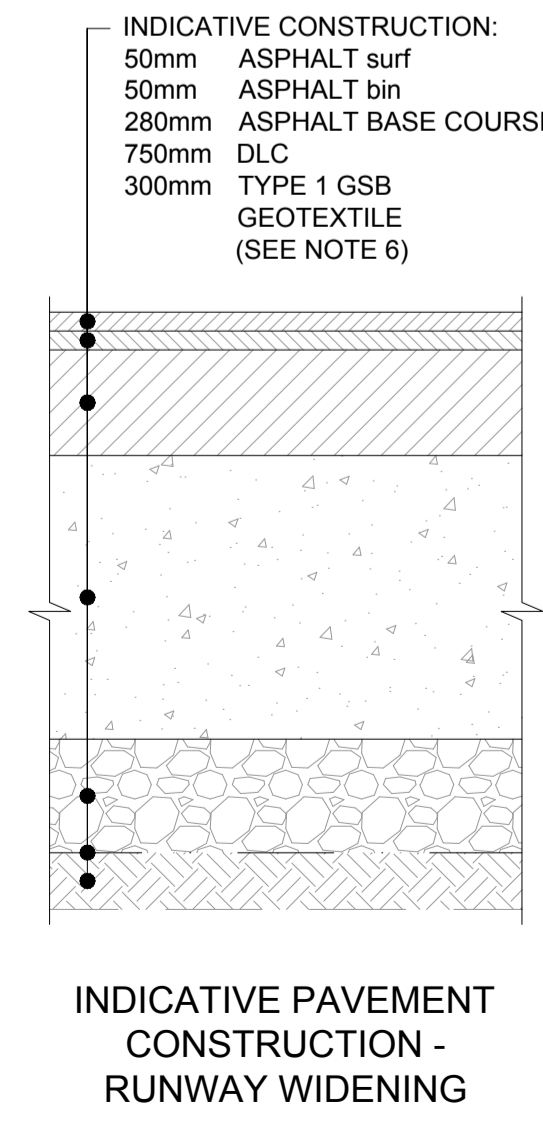
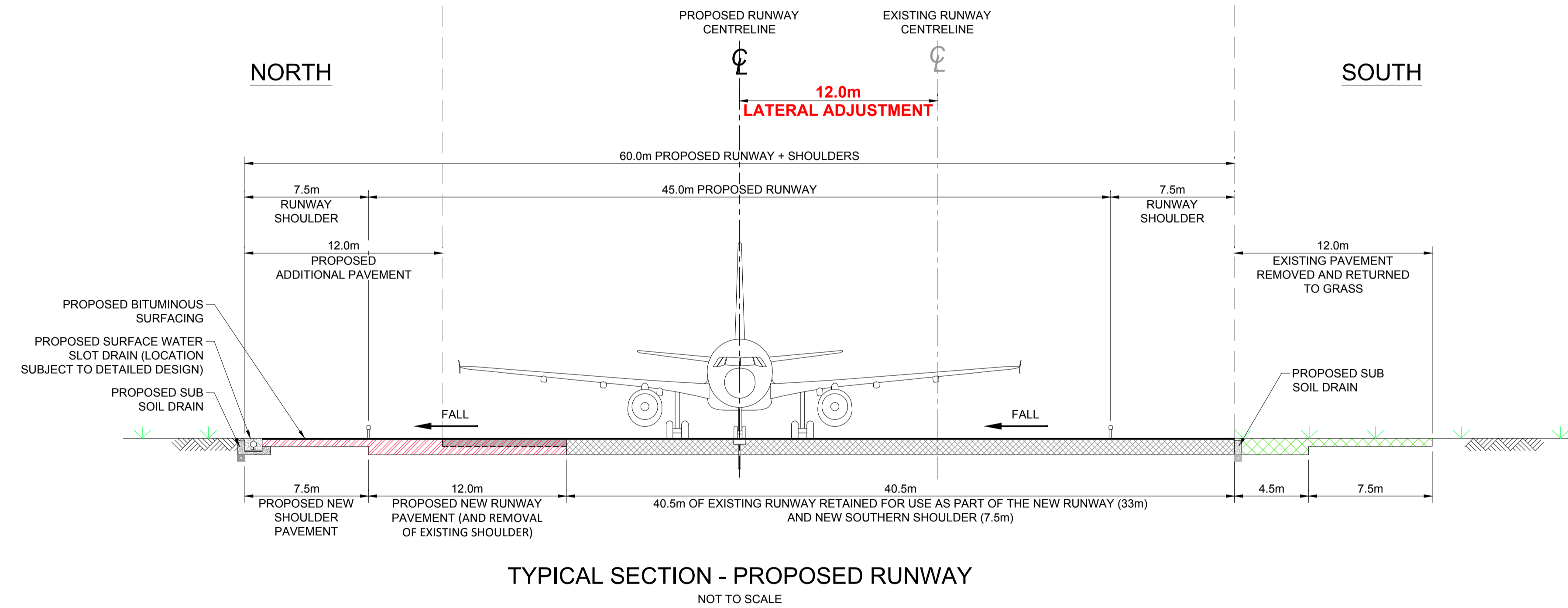
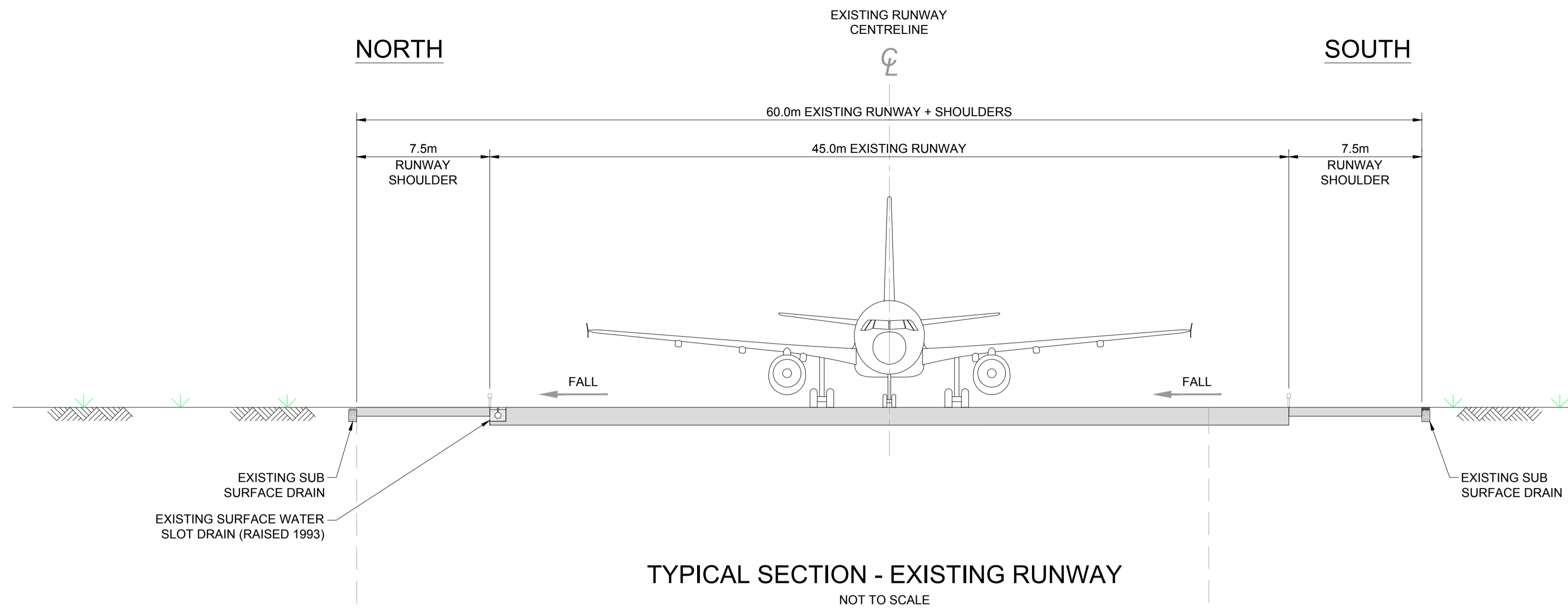
Book 10

VERSION: 1.0

DATE: MAY 2024

Application Document Ref: 10.24

PINS Reference Number: TR020005



NOTES

1. THE PURPOSE OF THIS SKETCH IS TO ILLUSTRATE THE PROPOSED PAVEMENT ARRANGEMENTS TO INCREASE THE CENTRE LINE SEPARATION OF THE NORTHERN RUNWAY (08L-26R) AND THE MAIN RUNWAY (08R-26L) BY A DISTANCE OF 12m.
2. THE SKETCH AND LOCATION OF THE SECTION ARE INDICATIVE, THE FOLLOWING LIST, NOT INTENDED TO BE COMPREHENSIVE, ARE TO BE CONFIRMED AT LATER DESIGN STAGES:
 - a. THE THICKNESS OF ANY PROPOSED OVERLAY TO THE RESIDUAL WIDTH OF THE NORTHERN RUNWAY.
 - b. THE SECTION AND TIE IN DETAILS BETWEEN THE RESIDUAL WIDTH OF THE RUNWAY PAVEMENT AND NEW PAVEMENTS.
 - c. THE PROPOSED PAVEMENT DESIGNS.
 - d. THE ARRANGEMENT OF ANY DRAINAGE.
 - e. FINISHED LEVELS AND GRADIENTS.
3. AIRFIELD GROUND LIGHTING TO BE REPOSITIONED IN ACCORDANCE WITH CAA REQUIREMENTS.
4. DRAINAGE DETAILS WILL BE DEVELOPED DURING DETAILED DESIGN.
5. RESURFACING INVOLVES THE REMOVAL OF THE EXISTING ASPHALT LAYERS (SURFACE COURSE AND BINDER COURSE) (CIRCA 100mm) AND REPLACED WITH NEW ASPHALT TO BE LAYERED TO PROVIDE REQUIRED RUNWAY PROFILE (CIRCA 250mm).
6. INDICATIVE RUNWAY AND PAVEMENT CONSTRUCTION. SPECIFIC DETAIL WILL BE DEVELOPED THROUGH DETAIL DESIGN PHASE.

Code Assigned:

Code 1 - Work may proceed
 Code 2 - Revise and resubmit. Work may proceed subject to incorporation of comments indicated
 Code 3 - Revise and resubmit. Work may NOT proceed
Permission to proceed does not constitute acceptance or approval of design details, calculations analyses, test methods, or materials developed or selected by the contractor/supplier, and does not relieve contractors/supplier from full compliance with contractual obligations or release any "holds" placed on the contract.

Authorised Signatory:
 Date Signed:

Coding Comments:

This drawing may contain some Ordnance Survey Landline and Raster data.
 OS Copyright Acknowledgement.
 Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and database right. Licence No. 100048869

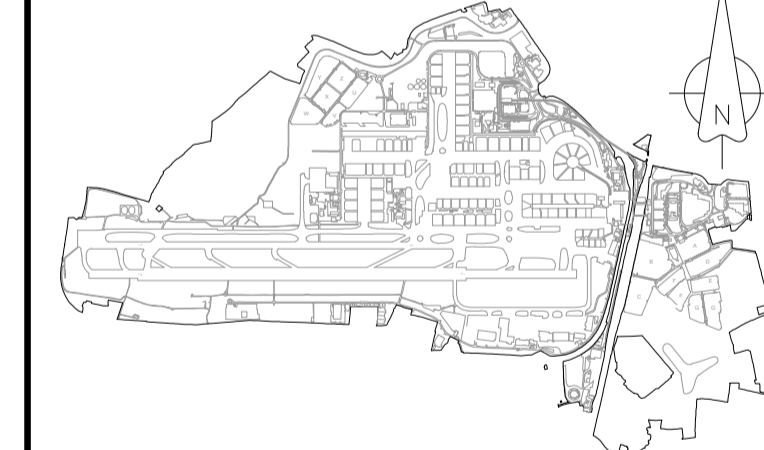
Model File References List - XRef Model Name (excluding path), Version & Status

ABBREVIATIONS:
 surf SURFACE COURSE
 bin BINDER COURSE
 DLC DRY LEAN CONCRETE
 GSB GRANULAR SUB-BASE

LEGEND
 (TYPICAL SECTION - PROPOSED RUNWAY)

 EXISTING RUNWAY PAVEMENT TO REMAIN
 EXISTING SHOULDER PAVEMENT ON NORTH TO BE REMOVED
 EXISTING PAVEMENT TO BE REMOVED AND RETURNED TO GRASS
 PROPOSED NEW PAVEMENT CONSTRUCTION

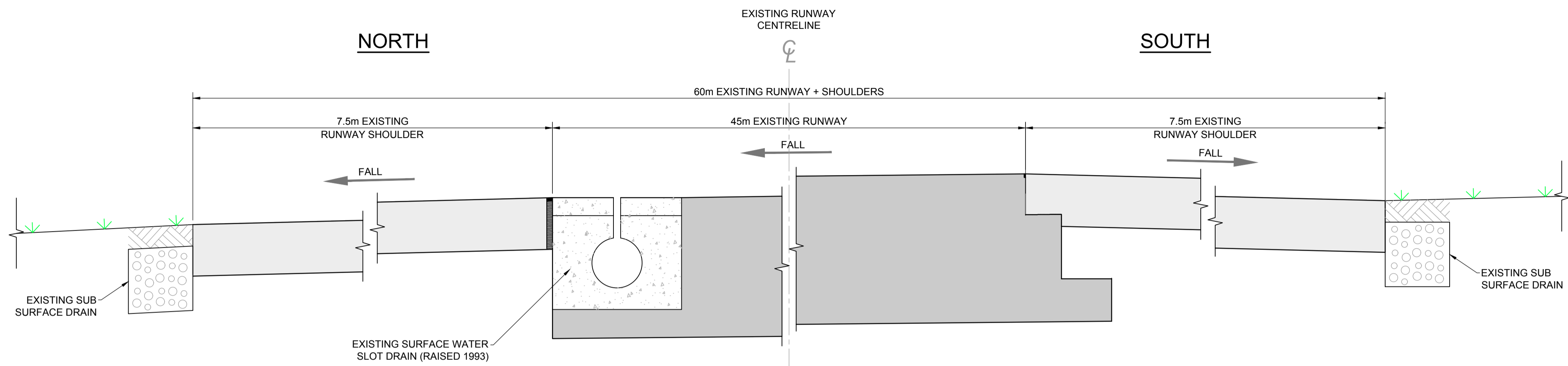
Rev	Date	Revision Description	Dm	Chk	Rvd	App
01	14/05/24	EXISTING & PROPOSED DRAINAGE ADDED	FC	GL	GW	CT
00	06/03/24	FOR INFORMATION	FC	GW	GW	CT



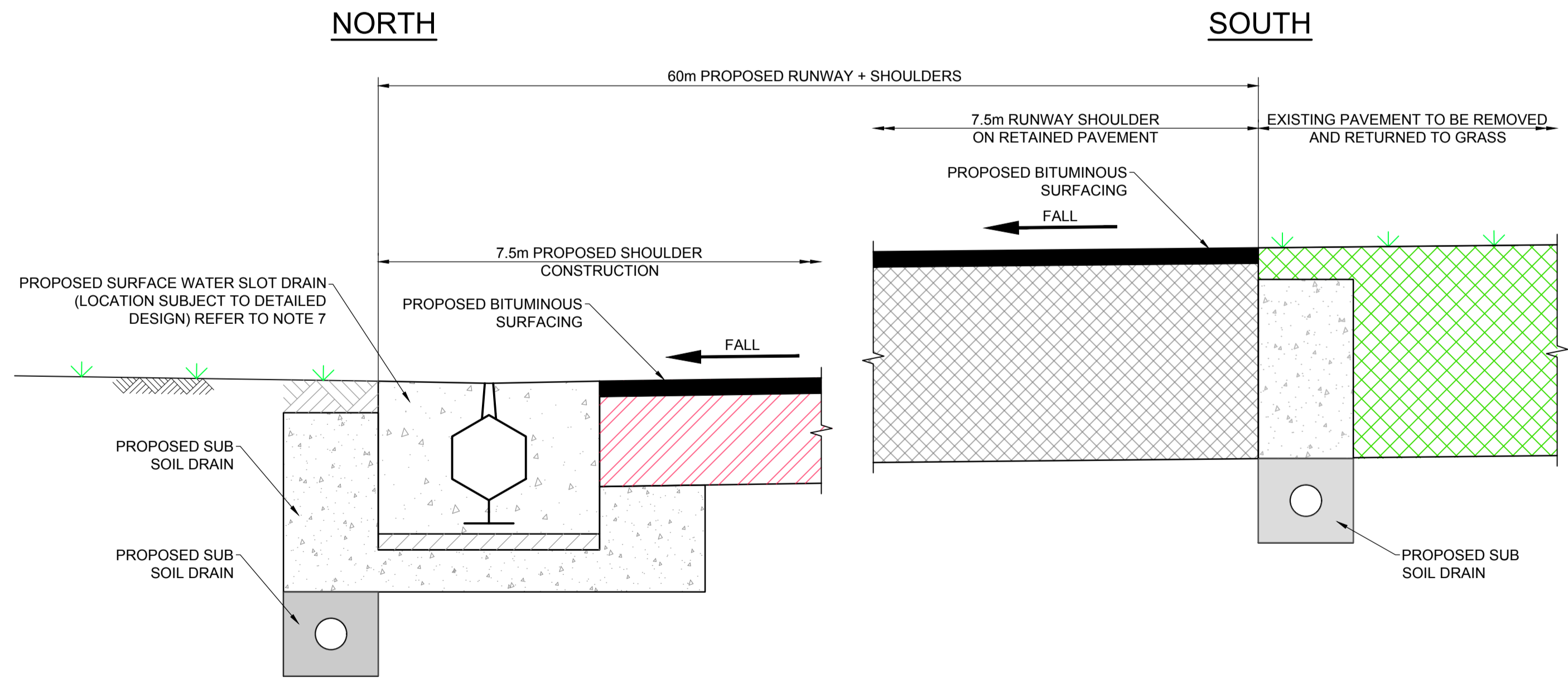
Project Name
 GATWICK AIRPORT NORTHERN RUNWAY PROJECT

TYPICAL CROSS SECTIONS EXISTING AND PROPOSED RUNWAY

Process Function Code (PFC) 000-Process Function	GAL Project No.
Process Function Code Description XXX-Non Process Function Specific	Originator's Job No.
Drawing Originator JACOBS	Drawn Date 06/03/24
Checked By GL	Checked Date 06/03/24
Approved By GW	Approval Date 06/03/24
Drawn By FC	Scale NTS
Status Review	Reason for Issue IFR
Location-Level-Discipline-PFC-DOC Type-Unique Number GALNRP-SK001	
Revision 01	



DETAIL A - EXISTING SLOT DRAIN AND SUB SURFACE DRAIN
NOT TO SCALE



DETAIL B - PROPOSED SLOT DRAIN AND SUB SURFACE DRAIN
NOT TO SCALE

NOTES

- THE PURPOSE OF THIS SKETCH IS TO ILLUSTRATE THE PROPOSED PAVEMENT ARRANGEMENTS TO INCREASE THE CENTRE LINE SEPARATION OF THE NORTHERN RUNWAY (08L-26R) AND THE MAIN RUNWAY (08R-26L) BY A DISTANCE OF 12m.
- THE SKETCH AND LOCATION OF THE SECTION ARE INDICATIVE, THE FOLLOWING LIST, NOT INTENDED TO BE COMPREHENSIVE, ARE TO BE CONFIRMED AT LATER DESIGN STAGES:
 - THE THICKNESS OF ANY PROPOSED OVERLAY TO THE RESIDUAL WIDTH OF THE NORTHERN RUNWAY.
 - THE SECTION AND TIE IN DETAILS BETWEEN THE RESIDUAL WIDTH OF THE RUNWAY PAVEMENT AND NEW PAVEMENTS.
 - THE PROPOSED PAVEMENT DESIGNS.
 - THE ARRANGEMENT OF ANY DRAINAGE.
 - FINISHED LEVELS AND GRADIENTS.
- AIRFIELD GROUND LIGHTING TO BE REPOSITIONED IN ACCORDANCE WITH CAA REQUIREMENTS.
- DRAINAGE DETAILS WILL BE DEVELOPED DURING DETAILED DESIGN.
- RESURFACING INVOLVES THE REMOVAL OF THE EXISTING ASPHALT LAYERS (SURFACE COURSE AND BINDER COURSE) (CIRCA 100mm) AND REPLACED WITH NEW ASPHALT TO BE LAYERED TO PROVIDE REQUIRED RUNWAY PROFILE (CIRCA 250mm).
- INDICATIVE RUNWAY AND PAVEMENT CONSTRUCTION. SPECIFIC DETAIL WILL BE DEVELOPED THROUGH DETAIL DESIGN PHASE.
- FOR MORE DETAILS OF THE CONNECTION TO THE EXISTING SURFACE WATER NETWORK SEE ES CHAPTER 11 WATER ENVIRONMENT [APP-036] PARAGRAPHS 11.6.29 TO 11.6.37.

Code Assigned:

Code 1 - Work may proceed
Code 2 - Revise and resubmit. Work may proceed subject to incorporation of comments indicated
Code 3 - Revise and resubmit. Work may NOT proceed
Permission to proceed does not constitute acceptance or approval of design details, calculations analyses, test methods, or materials developed or selected by the contractor/supplier, and does not relieve contractors/supplier from full compliance with contractual obligations or release any "holds" placed on the contract.

Authorised Signatory:
Date Signed:

Coding Comments:

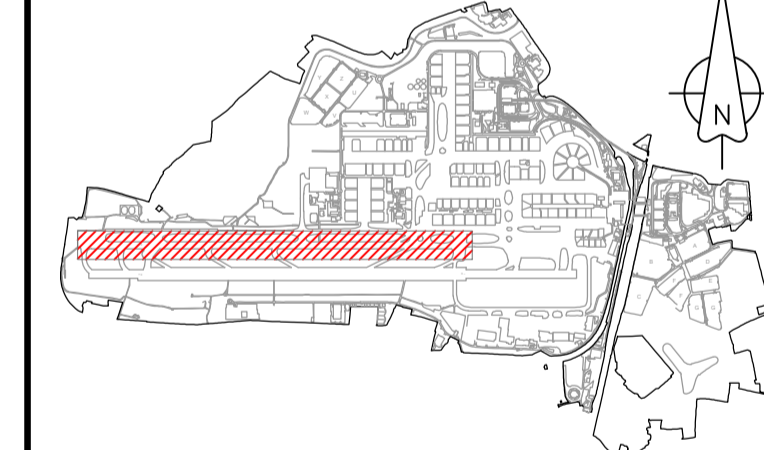
This drawing may contain some Ordnance Survey Landline and Raster data.
OS Copyright Acknowledgement.
Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and database right. Licence No. 100048869

Model File References List - XRef Model Name (excluding path), Version & Status

- LEGEND
(TYPICAL DETAIL - PROPOSED RUNWAY)
- EXISTING RUNWAY PAVEMENT TO REMAIN
 - EXISTING PAVEMENT TO BE REMOVED AND RETURNED TO GRASS
 - PROPOSED NEW PAVEMENT CONSTRUCTION

00	14/05/24	FOR REVIEW	FC	GW	GW	CT
Rev	Date	Revision Description	Dm	Chk	Rvd	App

Key Plan

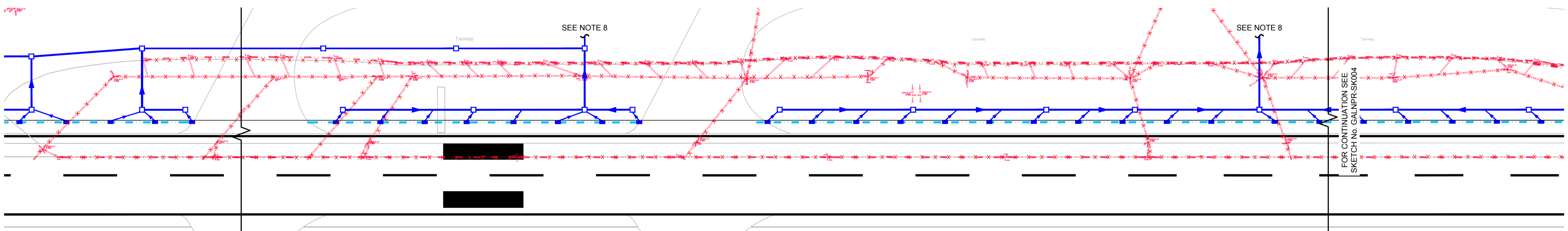
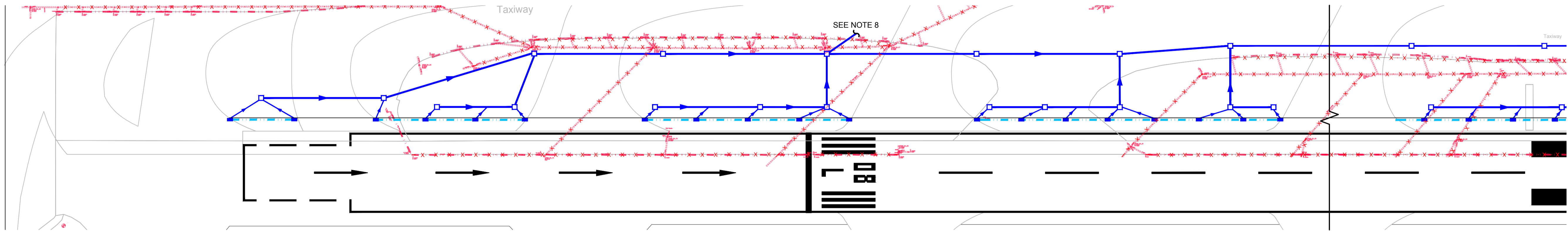
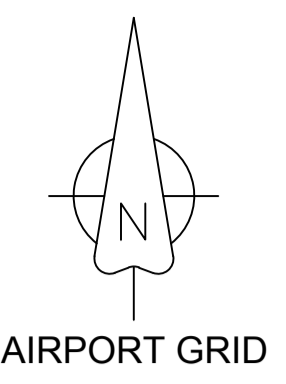


Project Name
GATWICK AIRPORT NORTHERN RUNWAY PROJECT

Title
TYPICAL DEATILS
EXISTING AND PROPOSED
SURFACE WATER DRAINAGE

Process Function Code (PFC) 000-Process Function		GAL Project No.	
Process Function Code Description XXX-Non Process Function Specific		Originator's Job No.	
Drawing Originator		Drawn Date 14/05/24	
Checked By GW	Checked Date 14/05/24	Drawn By FC	Status Review
Approved By CT	Approval Date 14/05/24	Scale NTS	Reason for Issue IFR
Location-Level-Discipline-PFC-DOC Type-Unique Number GALNRP-SK002			Revision 00

Document Uncontrolled when printed



LEGEND

PROPOSED MARKINGS AND SERVICES

- RUNWAY EDGE MARKING
- SURFACE WATER DRAINAGE
- SLOT DRAIN
- SURFACE WATER CATCHPIT
- SUMP BOX ON SLOT DRAIN RUN

EXISTING SERVICES

- SURFACE WATER DRAINAGE
- SLOT DRAIN
- EXISTING SERVICE TO BE ABANDONED

- NOTES**
- THIS DRAWING FORMS PART OF A SET OF DRAWINGS AND DOCUMENTS FOR THE GATWICK NORTHERN RUNWAY PROJECT AND SHOULD BE READ IN CONJUNCTION WITH ALL DRAWINGS.
 - ALL BASE MAPPING AND TOPOGRAPHICAL SURVEY INFORMATION HAS BEEN PROVIDED BY GAL. NO GUARANTEE CAN BE GIVEN BY JACOBS AS TO ACCURACY OR COMPLETENESS. THE LOCATION OF ALL UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.
 - ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE. ALL LEVELS ARE TO METRES A.O.D. THIS DRAWING IS PRODUCED TO GATWICK AIRPORT LOCAL GRID.
 - DO NOT SCALE FROM THIS DRAWING.
 - THIS DRAWING TO BE READ IN COLOUR.
 - INDICATIVE POSITION OF SLOT DRAINS ARE SHOWN. THESE WILL BE FINALISED DURING DETAILED DESIGN WHICH COULD REQUIRE DRAINAGE OF LOCAL AREAS DUE TO THE FINAL NORTHERN RUNWAY AND TAXIWAY PROFILE.
 - THE SURFACE WATER DRAINAGE NETWORK SHOWN IS ASSOCIATED WITH THE RELOCATION OF THE EXISTING NORTHERN RUNWAY NORTH BY 12 METRES.
 - FOR MORE DETAILS OF THE CONNECTION TO THE EXISTING SURFACE WATER NETWORK SEE ES CHAPTER 11 WATER ENVIRONMENT [APP-036] PARAGRAPHS 11.6.29 TO 11.6.37.

Code Assigned:

Code 1 - Work may proceed
 Code 2 - Revise and resubmit. Work may proceed subject to incorporation of comments indicated
 Code 3 - Revise and resubmit. Work may NOT proceed

Permission to proceed does not constitute acceptance or approval of design details, calculations analyses, test methods, or materials developed or selected by the contractor/supplier, and does not relieve contractors/supplier from full compliance with contractual obligations or release any "holds" placed on the contract.

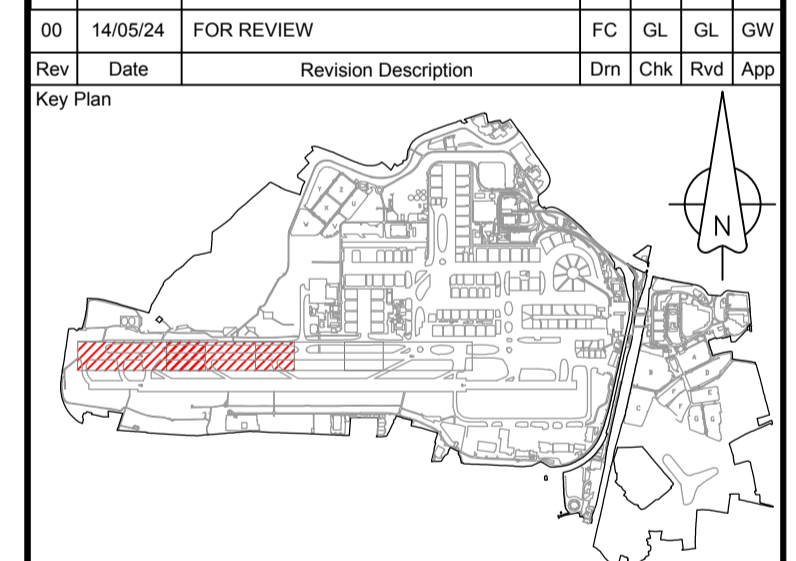
Authorised Signatory:
 Date Signed:

Coding Comments:

This drawing may contain some Ordnance Survey Landline and Raster data.
 OS Copyright Acknowledgement:
 Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and database right. Licence No. 100048869

Model File References List - XRef Model Name (excluding path), Version & Status:

Rev	Date	Revision Description	Drm	Chk	Rvd	App
00	14/05/24	FOR REVIEW		FC	GL	GW



© Copyright 2024 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on behalf of, and for the exclusive use of Jacobs' Client, and is subject to, and issued in accordance with, the provisions of the contract between Jacobs and the Client. Jacobs accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this drawing by any third party.

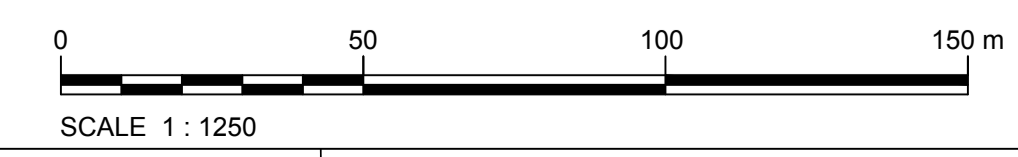


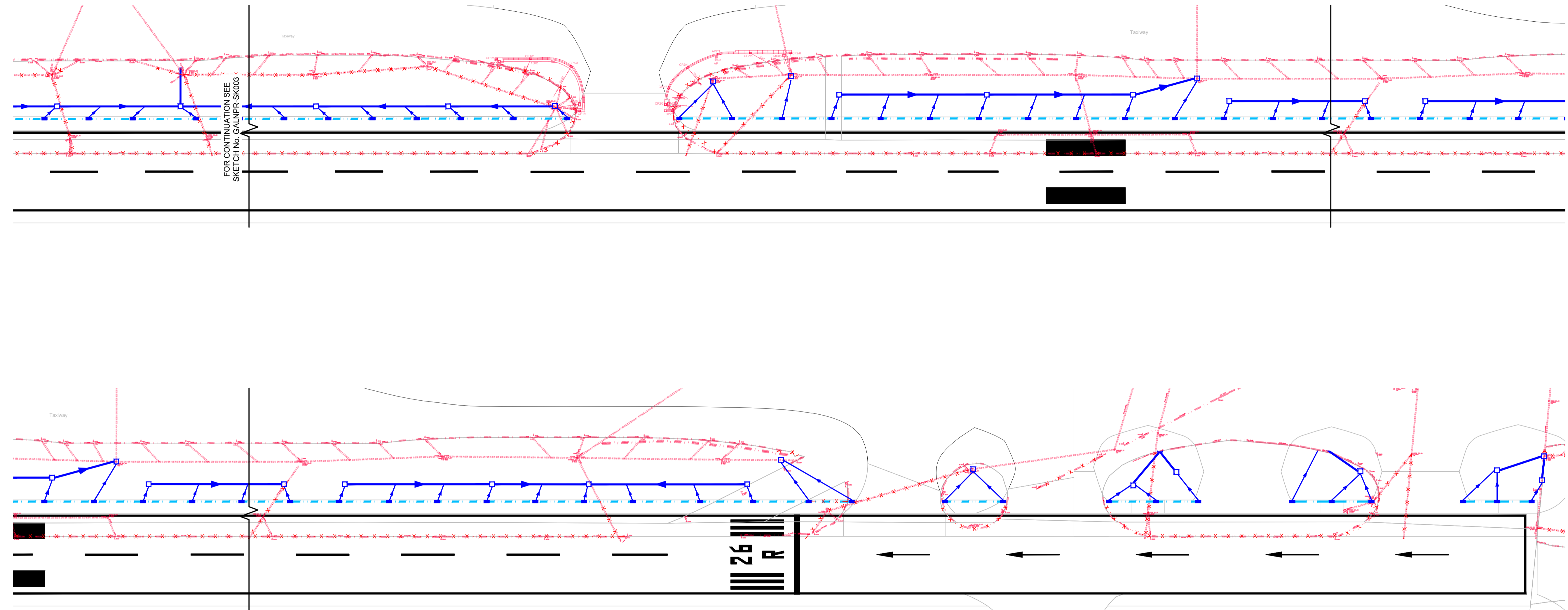
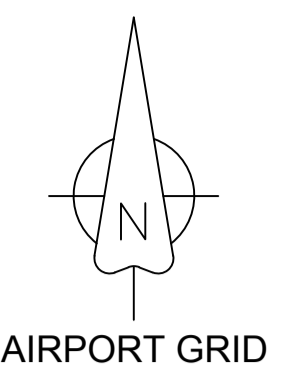
Project Name
 GATWICK NORTHERN RUNWAY PROJECT

Title
 SURFACE WATER DRAINAGE LAYOUT
 GENERAL ARRANGEMENT
 SHEET 1 OF 2

Process Function Code (PFC) 000-Process Function	GAL Project No.
Process Function Code Description XXX-Non Process Function Specific	Originator's Job No.
Drawing Originator JACOBS	Drawn Date 14/05/24
Checked By	Checked Date
Drawn By FC	Status REVIEW
Approved By GW	Approval Date
Scale 1:1250@A1	Reason for Issue IFR
Location-Level-Discipline-PFC-DOC Type-Unique Number GALNRP-SK003	Revision 00

Document Uncontrolled when printed





FOR CONTINUATION SEE SKETCH No. GALNRP-SK003

- LEGEND**
- PROPOSED MARKINGS AND SERVICES**
- RUNWAY EDGE MARKING
 - SURFACE WATER DRAINAGE
 - SLOT DRAIN
 - SURFACE WATER CATCHPIT
 - SUMP BOX ON SLOT DRAIN RUN
- EXISTING SERVICES**
- SURFACE WATER DRAINAGE
 - SLOT DRAIN
 - EXISTING SERVICE TO BE ABANDONED

- NOTES**
1. THIS DRAWING FORMS PART OF A SET OF DRAWINGS AND DOCUMENTS FOR THE GATWICK NORTHERN RUNWAY PROJECT AND SHOULD BE READ IN CONJUNCTION WITH ALL DRAWINGS.
 2. ALL BASE MAPPING AND TOPOGRAPHICAL SURVEY INFORMATION HAS BEEN PROVIDED BY GAL. NO GUARANTEE CAN BE GIVEN BY JACOBS AS TO ACCURACY OR COMPLETENESS. THE LOCATION OF ALL UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.
 3. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE. ALL LEVELS ARE TO METRES A.O.D. THIS DRAWING IS PRODUCED TO GATWICK AIRPORT LOCAL GRID.
 4. DO NOT SCALE FROM THIS DRAWING.
 5. THIS DRAWING TO BE READ IN COLOUR.
 6. INDICATIVE POSITION OF SLOT DRAINS ARE SHOWN. THESE WILL BE FINALISED DURING DETAILED DESIGN WHICH COULD REQUIRE DRAINAGE OF LOCAL AREAS DUE TO THE FINAL NORTHERN RUNWAY AND TAXIWAY PROFILE.
 7. THE SURFACE WATER DRAINAGE NETWORK SHOWN IS ASSOCIATED WITH THE RELOCATION OF THE EXISTING NORTHERN RUNWAY NORTH BY 12 METRES.
 8. FOR MORE DETAILS OF THE CONNECTION TO THE EXISTING SURFACE WATER NETWORK SEE ES CHAPTER 11 WATER ENVIRONMENT [APP-036] PARAGRAPHS 11.6.29 TO 11.6.37.

Code Assigned:

Code 1 - Work may proceed
Code 2 - Revise and resubmit. Work may proceed subject to incorporation of comments indicated
Code 3 - Revise and resubmit. Work may NOT proceed

Permission to proceed does not constitute acceptance or approval of design details, calculations analyses, test methods, or materials developed or selected by the contractor/supplier, and does not relieve contractors/supplier from full compliance with contractual obligations or release any "holds" placed on the contract.

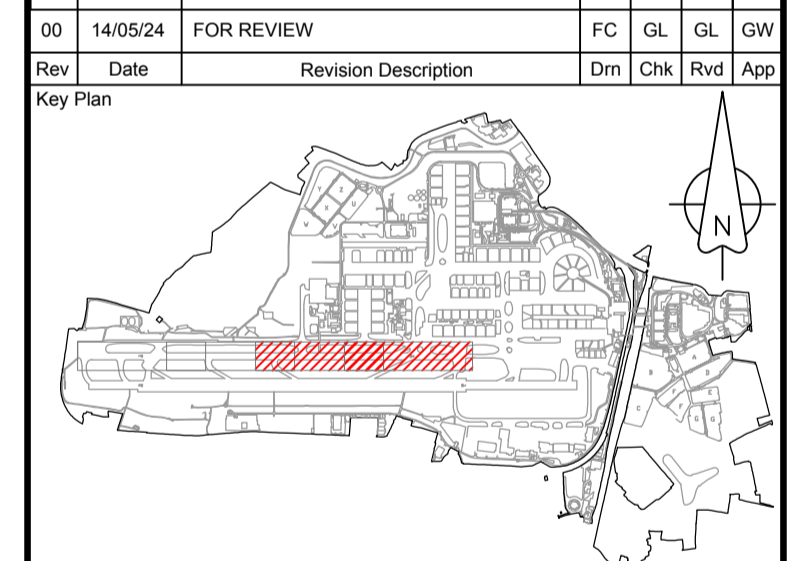
Authorised Signatory:
Date Signed:

Coding Comments:

This drawing may contain some Ordnance Survey Landline and Raster data.
OS Copyright Acknowledgement:
Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and database right. Licence No. 100048869

Model File References List - XRef Model Name (excluding path), Version & Status:

Rev	Date	Revision Description	Drm	Chk	Rvd	App
00	14/05/24	FOR REVIEW		FC	GL	GW



© Copyright 2024 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on behalf of, and for the exclusive use of Jacobs' Client, and is subject to, and issued in accordance with, the provisions of the contract between Jacobs and the Client. Jacobs accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this drawing by any third party.



Project Name
GATWICK NORTHERN RUNWAY PROJECT

Title
SURFACE WATER DRAINAGE LAYOUT
GENERAL ARRANGEMENT
SHEET 2 OF 2

Process Function Code (PFC) 000-Process Function	GAL Project No.
Process Function Code Description XXX-Non Process Function Specific	Originator's Job No.
Drawing Originator JACOBS	Drawn Date 14/05/24
Checked By	Checked Date
Drawn By FC	Status REVIEW
Approved By GW	Approval Date
Scale 1:1250@A1	Reason for Issue IFR
Location-Level-Discipline-PFC-DOC Type-Unique Number GALNRP-SK003	Revision 00

Document Uncontrolled when printed

