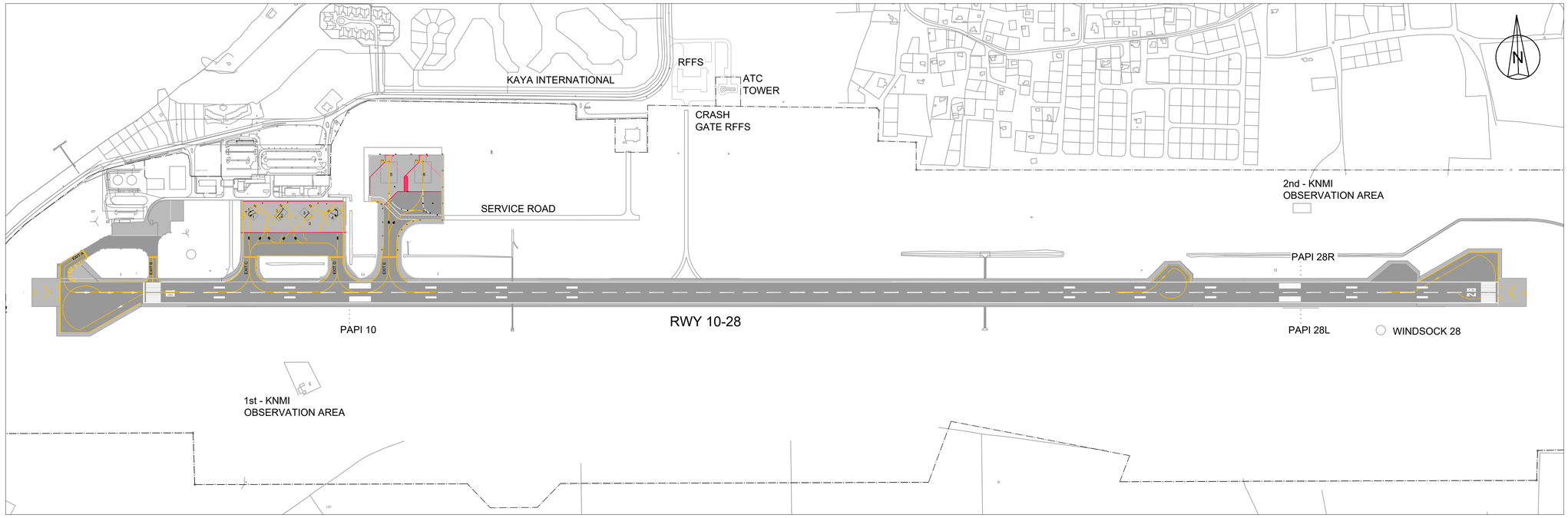
Renovatie AGL Installatie Bonaire International Airport

Package:Final Design for Tendering

Date: 13-04-2023 (rev. 19-07-2023)



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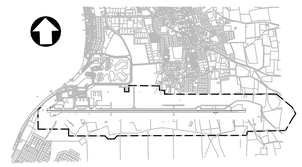

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

General
Cover Sheet

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
RS	GJB	HVW
DATE 16-12-2022	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-ZZ00-00001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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Do Not Scale

Final Design - List of drawings

Project Number	BI2286
Project phase	Final Design (Definitief Ontwerp)
Project Title	Bonaire International Airport Renovation AGL
Issue date	2023/04/13

Item	Title 1	Title 2	Title 3	File Naming	Revision
1	General	Cover Sheet		BI2286-NAC-AS-XX-DR-E-ZZ00-00001	5
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5	General	Sectors		BI2286-NAC-AS-XX-DR-E-EL00-30002	5
6	Existing Infrastructure for AGL & Utilities	Layout	Overview	BI2286-NAC-AS-XX-DR-C-CE34-30001	5
7	Existing Infrastructure for AGL & Utilities	Layout	Sector 1024	BI2286-NAC-AS-XX-DR-C-CE34-31024	5
8	Existing Infrastructure for AGL & Utilities	Layout	Sector 1041	BI2286-NAC-AS-XX-DR-C-CE34-31041	5
9	Existing Infrastructure for AGL & Utilities	Layout	Sector 1042	BI2286-NAC-AS-XX-DR-C-CE34-31042	5
10	Existing Infrastructure for AGL & Utilities	Layout	Sector 2013	BI2286-NAC-AS-XX-DR-C-CE34-32013	5
11	Existing Infrastructure for AGL & Utilities	Layout	Sector 2014	BI2286-NAC-AS-XX-DR-C-CE34-32014	5
12	Existing Infrastructure for AGL & Utilities	Layout	Sector 2031	BI2286-NAC-AS-XX-DR-C-CE34-32031	5
13	Existing Infrastructure for AGL & Utilities	Layout	Sector 2032	BI2286-NAC-AS-XX-DR-C-CE34-32032	5
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16	Existing Infrastructure for AGL & Utilities	Layout	Sector 3023	BI2286-NAC-AS-XX-DR-C-CE34-33023	5
17	Existing Infrastructure for AGL & Utilities	Layout	Sector 3031	BI2286-NAC-AS-XX-DR-C-CE34-33031	5
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21	Removal of Civil and Electrical items	Layout	Overview	BI2286-NAC-AS-XX-DR-E-EL06-30001	5
22	Removal of Civil and Electrical items	Layout	Sector 1041	BI2286-NAC-AS-XX-DR-E-EL06-31041	5
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24	Removal of Civil and Electrical items	Layout	Sector 2013	BI2286-NAC-AS-XX-DR-E-EL06-32013	5
25	Removal of Civil and Electrical items	Layout	Sector 2014	BI2286-NAC-AS-XX-DR-E-EL06-32014	5
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29	Removal of Civil and Electrical items	Layout	Sector 2041	BI2286-NAC-AS-XX-DR-E-EL06-32041	5
30	Removal of Civil and Electrical items	Layout	Sector 2042	BI2286-NAC-AS-XX-DR-E-EL06-32042	5
31	Removal of Civil and Electrical items	Layout	Sector 3031	BI2286-NAC-AS-XX-DR-E-EL06-33031	5
32	Removal of Civil and Electrical items	Layout	Sector 3032	BI2286-NAC-AS-XX-DR-E-EL06-33032	5
33	Removal of Civil and Electrical items	Layout	Sector 3041	BI2286-NAC-AS-XX-DR-E-EL06-33041	5
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35	Earthing	Layout	Overview	BI2286-NAC-AS-XX-DR-E-EL30-30001	5
36	Earthing	Layout	Sector 2100	BI2286-NAC-AS-XX-DR-E-EL30-32100	5
37	Earthing	Layout	Sector 2200	BI2286-NAC-AS-XX-DR-E-EL30-32200	5
38	Earthing	Layout	Sector 2300	BI2286-NAC-AS-XX-DR-E-EL30-32300	5
39	Earthing	AGL Earthing	Detail	BI2286-NAC-AS-XX-DR-E-EL30-70001	5
40	Airfield Ground Lighting & Signage	Layout	Overview	BI2286-NAC-AS-XX-DR-E-EL40-30001	5
41	Airfield Ground Lighting & Signage	Primary Circuit Routes	Circuit Count	BI2286-NAC-AS-XX-DR-E-EL40-30002	5
42	Airfield Ground Lighting & Signage	Primary Circuit Routes - Group A	Overview	BI2286-NAC-AS-XX-DR-E-EL40-30003	5
43	Airfield Ground Lighting & Signage	Primary Circuit Routes - Group A	Approach and Runway Edge Circuits	BI2286-NAC-AS-XX-DR-E-EL40-30004	5
44	Airfield Ground Lighting & Signage	Primary Circuit Routes - Group A	PAPI-Circuits	BI2286-NAC-AS-XX-DR-E-EL40-30005	5
45	Airfield Ground Lighting & Signage	Primary Circuit Routes - Group B	Overview	BI2286-NAC-AS-XX-DR-E-EL40-30006	5
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47	Airfield Ground Lighting & Signage	Primary Circuit Routes - Group B	Threshold Circuits	BI2286-NAC-AS-XX-DR-E-EL40-30008	5
48	Airfield Ground Lighting & Signage	Layout	Sector 1041	BI2286-NAC-AS-XX-DR-E-EL40-31041	5
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57	Airfield Ground Lighting & Signage	Layout	Sector 3031	BI2286-NAC-AS-XX-DR-E-EL40-33031	5
58	Airfield Ground Lighting & Signage	Layout	Sector 3032	BI2286-NAC-AS-XX-DR-E-EL40-33032	5
59	Airfield Ground Lighting & Signage	Layout	Sector 3041	BI2286-NAC-AS-XX-DR-E-EL40-33041	5
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61	Airfield Ground Lighting & Signage	Legend & CCR Summary		BI2286-NAC-AS-XX-DR-E-EL40-70001	5
62	Airfield Ground Lighting & Signage	Interleaving	Schematic	BI2286-NAC-AS-XX-DR-E-EL40-70002	5
63	Airfield Ground Lighting & Signage	Coordinate Schedule		BI2286-NAC-AS-XX-DR-E-EL40-80001	5
64	Airfield Ground Lighting & Signage	Coordinate Schedule		BI2286-NAC-AS-XX-DR-E-EL40-80002	5
65	Airfield Signage	Signage	Schedule	BI2286-NAC-AS-XX-DR-E-EL45-70001	5
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67	AGL Civil Works	Duct Bank	Detail	BI2286-NAC-AS-XX-DR-C-CE35-70001	5
68	AGL Civil Works	Sign Foundation	Detail	BI2286-NAC-AS-XX-DR-C-CE35-70002	5
69	AGL Civil Works	PAPI Foundation	Detail - Sheet 1 of 2	BI2286-NAC-AS-XX-DR-C-CE35-70004	5
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74	Fencing and Pavement	Layout and Details		BI2286-NAC-AS-XX-DR-C-CE75-30001	5
75	AGL Substation	LV Cable routing, duct & pits	Layout	BI2286-NAC-AS-XX-DR-C-AR10-30001	5
76	AGL Substation	Architectural	Floor plans, 3D views and Details	BI2286-NAC-SS-XX-DR-A-AR00-30001	5
77	AGL Substation	Architectural	Facades, Sections and Details	BI2286-NAC-SS-XX-DR-A-AR00-30002	5
78	AGL Substation	Mechanical systems	Layout	BI2286-NAC-SS-XX-DR-M-ME00-30001	5
79	AGL Substation	Electrical systems	Layout	BI2286-NAC-SS-XX-DR-E-EL00-30001	5
80	AGL Substation	Diagram	Main Distribution Board	BI2286-NAC-SS-XX-DR-E-EL10-80001	5

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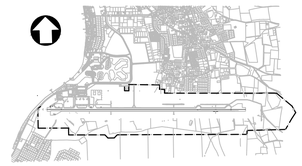

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4	16-02-2023	Final Design	HvW

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PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

General
Drawing List

PHASE: PD | STATE: Final

DRAFT	CHECK	APPROVED
RS	GJB	HVW
DATE 16-02-2023	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017

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PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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FILE INFO BI2286-NAC-AS-XX-DR-E-ZZ00-00002.dwg 12/4/2023 5:01 PM

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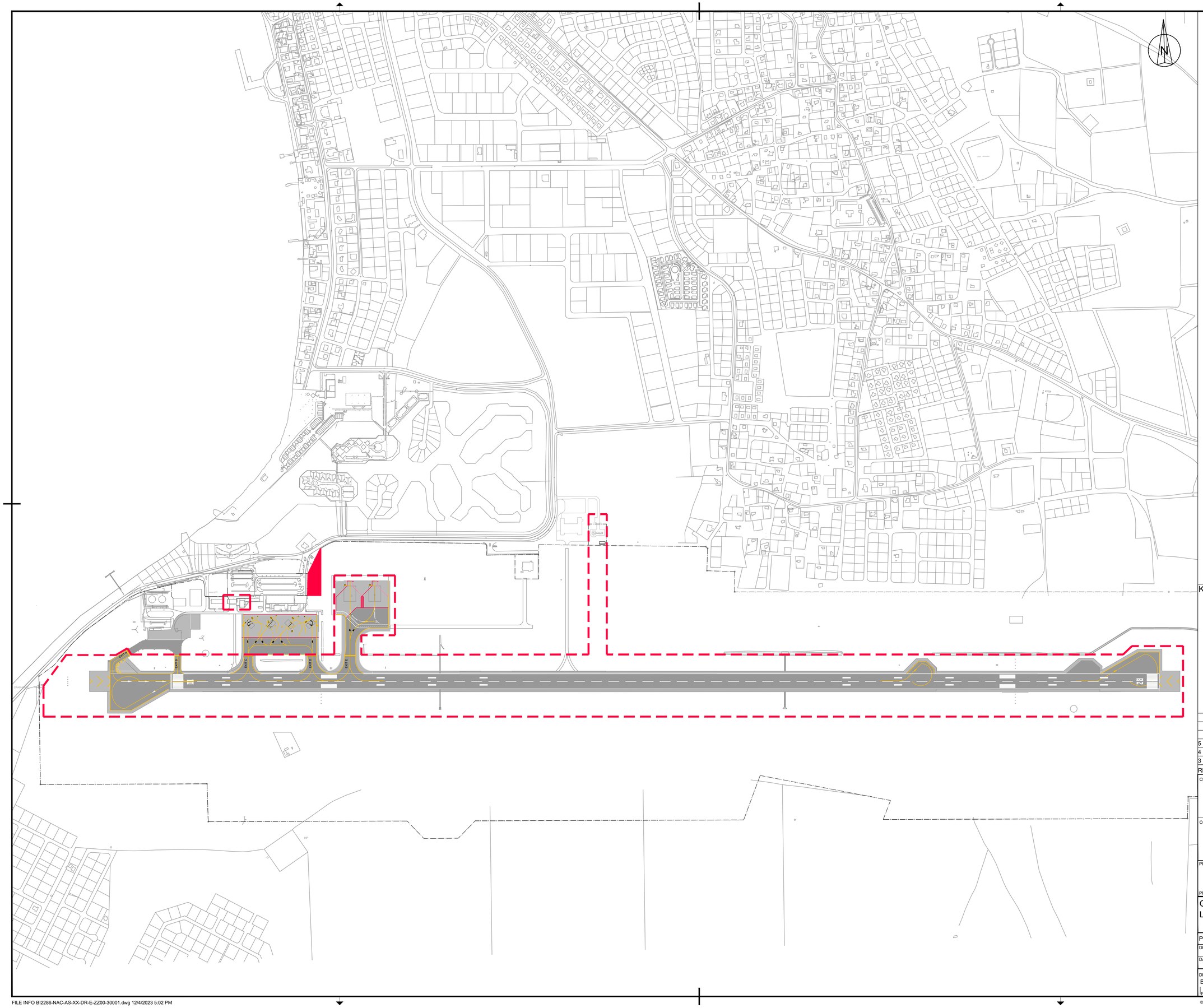

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LIMIT OF WORKS

CONTRACTORS CAMP

NOTES

1. For AGL & Signage layouts refer to drawings: BI2286-NAC-AS-XX-DR-E-EL40-31041 to BI2286-NAC-AS-XX-DR-E-EL40-33042.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-C-EL45-70001

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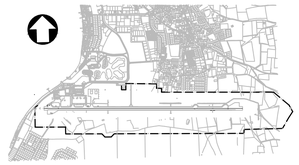

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General
Limit of the Works

PHASE: FD | STATE: Final

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DATE 16-12-2022	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-ZZ00-30001
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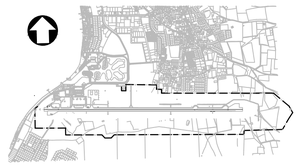

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3	16-12-2022	Draft Final Design	HvW
2	24-03-2022	Final Preliminary Design	HvW

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PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

General
General Arrangement

PHASE: FD | STATE: Final

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DATE	04-03-2022	SCALE 1:5000 SHEET A1		CONTRACT NO.:	31096821.0017

DRAWING No.
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PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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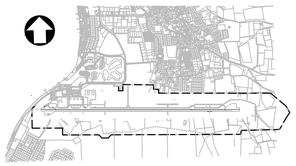

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PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

General
Drawing Sectors 1:2000

PHASE: FD | STATE: Final

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CHB	GJB	HVW
DATE 04-03-2022	SCALE 1:8000 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL00-30002
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

FILE INFO BI2286-NAC-AS-XX-DR-E-EL00-30002.dwg 12/4/2023 5:02 PM

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LEGEND:

- FENCE
- PRIMARY TRACE / CABLE DUCT
- SECONDARY CABLE IN SAW CUT
- SECONDARY CABLE IN CONDUIT Ø50mm
- SECONDARY CABLE IN CONDUIT
- COUNTERPOISE WIRE
- METEOROLOGICAL EQUIPMENT SYSTEM
- ACCESS (INSTALLED IN 2015 PROJECT)
- LIGHTING CABLE (INSTALLED IN 2015 PROJECT)
- LIGHTING CABLE UNDER PAVEMENT (INSTALLED IN 2015 PROJECT)
- DP-FLO x - Nox — LIGHTING MAST (INSTALLED IN 2015 PROJECT)
- PPnx — LIGHTING MANHOLE (INSTALLED IN 2015 PROJECT)
- TRANSFORMER PIT
- HANDHOLE
- DUCT BANK (EXISTING, INSTALLED BEFORE THE RUNWAY EXTENSION PROJECT 2011)
- TAXIWAY/APRON EDGE LIGHT (OUT OF SCOPE)
- TAXIWAY/APRON EDGE LIGHT
- RUNWAY EDGE LIGHT, FLUSH MOUNTED
- RUNWAY EDGE LIGHT
- RUNWAY THRESHOLD LIGHT, FLUSH MOUNTED
- RUNWAY THRESHOLD LIGHT
- RUNWAY END LIGHT, FLUSH MOUNTED
- RUNWAY END LIGHT
- APPROACH LIGHT, FLUSH MOUNTED
- APPROACH LIGHT
- TAXIWAY EDGE LIGHT (SOLAR)
- WIND DIRECTION INDICATOR
- A 10 / B — SIGNS
- EARTH ROD

NOTES

1. Meteorological equipment information provided is indicative only.

0 100 200 300 400 500 m

KEYPLAN

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PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Overview

PHASE: FD | STATE: Final

DRAFT	CHB	CHECK	GJB	APPROVED	HVW
DATE	24-03-2022	SCALE SHEET	1:5000 A1	CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE34-30001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

FILE INFO BI2286-NAC-AS-XX-DR-C-CE34-30001.dwg 13/4/2023 4:05 PM

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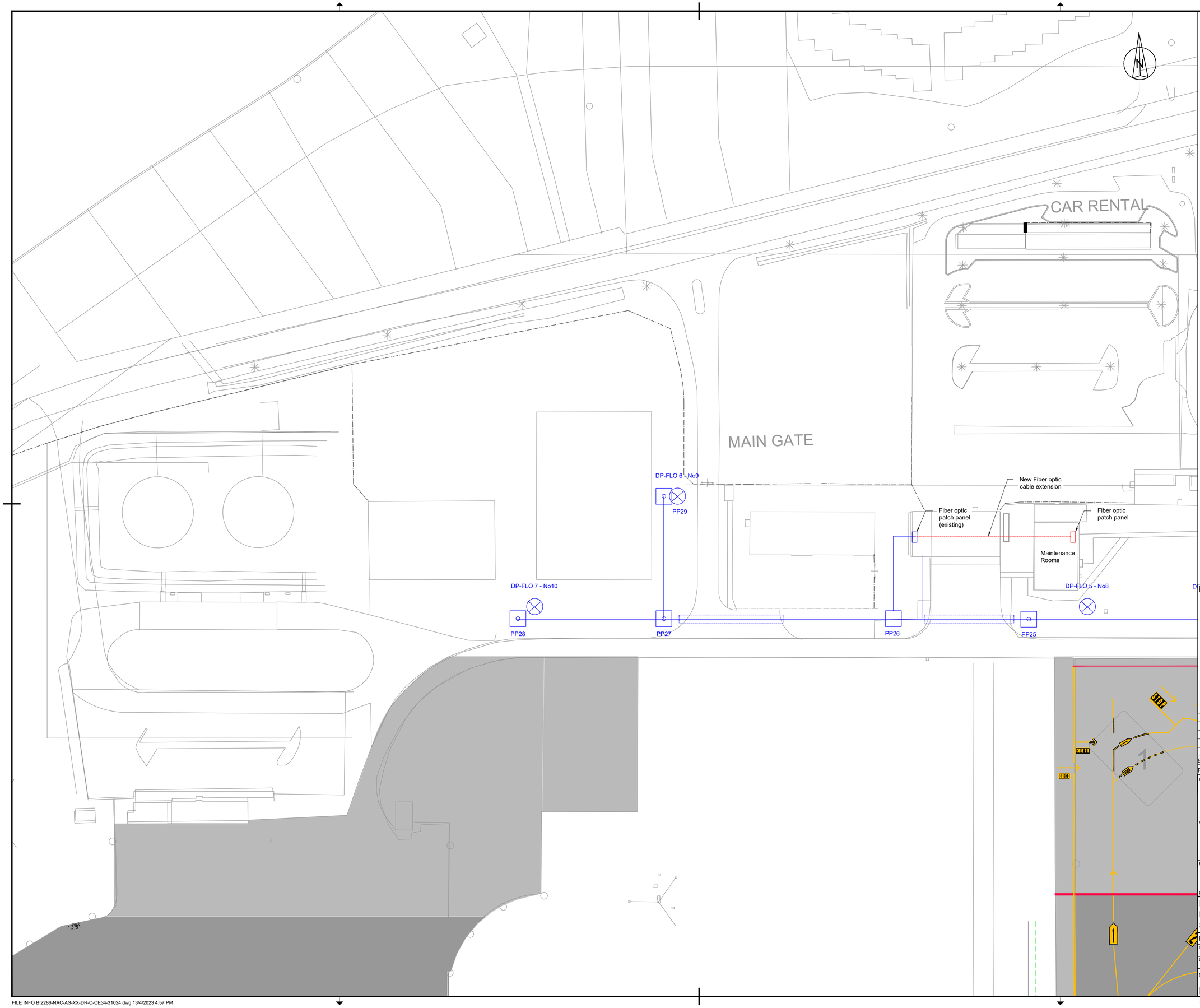

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- F — APPROACH LIGHT, FLUSH MOUNTED
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- A 10 B — SIGNS
- EARTH ROD

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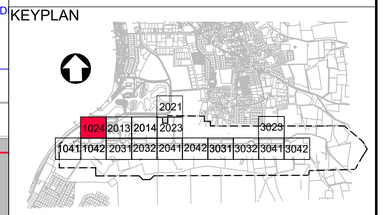
0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW

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Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

CONSULTANT

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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Civil Works for AGL & Utilities
Layout
Sector 1024

PHASE: FD		STATE: Final	
DRAFT CHB	CHECK GJB	APPROVED HVW	
DATE 13-04-2023	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE34-31024
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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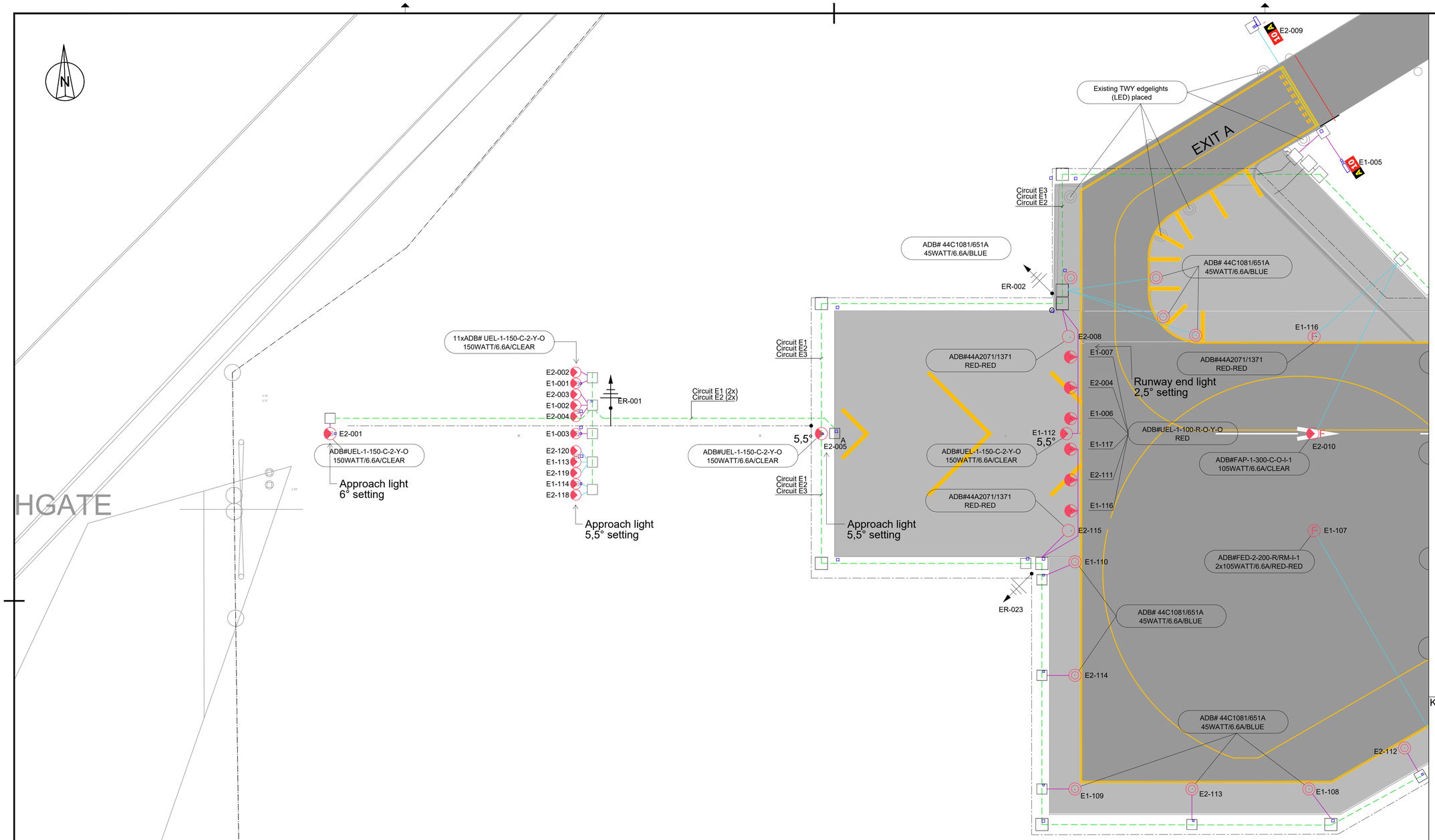

LEGEND:

- FENCE
- PRIMARY TRACE / CABLE DUCT
- SECONDARY CABLE IN SAW CUT
- SECONDARY CABLE IN CONDUIT Ø50mm
- SECONDARY CABLE IN CONDUIT
- COUNTERPOISE WIRE
- METEOROLOGICAL EQUIPMENT SYSTEM
- ACCESS (INSTALLED IN 2015 PROJECT)
- LIGHTING CABLE (INSTALLED IN 2015 PROJECT)
- LIGHTING CABLE UNDER PAVEMENT (INSTALLED IN 2015 PROJECT)
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- TAXIWAY/APRON EDGE LIGHT
- RUNWAY EDGE LIGHT, FLUSH MOUNTED
- RUNWAY EDGE LIGHT
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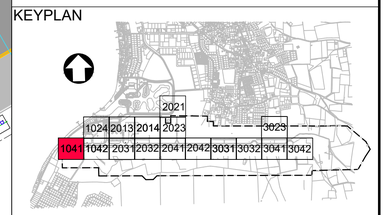
- RUNWAY THRESHOLD LIGHT
- RUNWAY END LIGHT, FLUSH MOUNTED
- RUNWAY END LIGHT
- APPROACH LIGHT, FLUSH MOUNTED
- APPROACH LIGHT
- TAXIWAY EDGE LIGHT (SOLAR)
- WIND DIRECTION INDICATOR
- SIGNS
- EARTH ROD

1. Meteorological equipment information provided is indicative only.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 1041

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
CHB	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-C-CE34-31041
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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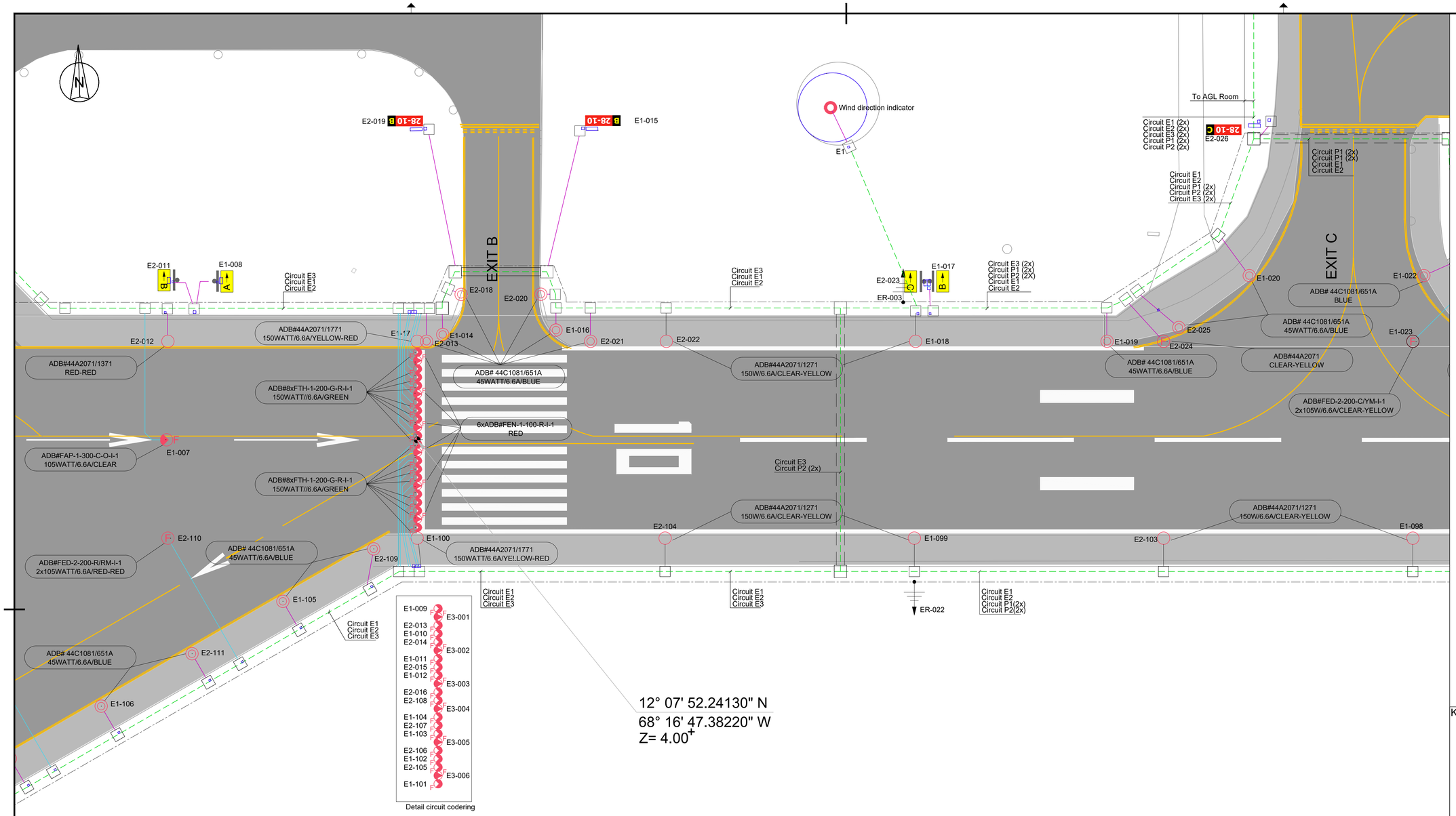

LEGEND:

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- TAXIWAY EDGE LIGHT (SOLAR)
- WIND DIRECTION INDICATOR
- A 10 B SIGNS
- EARTH ROD

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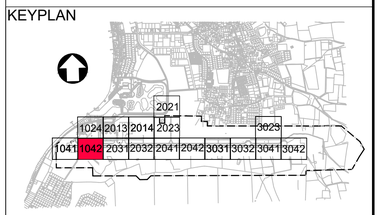
0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 1042

PHASE: FD | STATE: Final

DRAFT	CHB	CHECK	GJB	APPROVED	HVW
DATE	16-12-2022	SCALE 1:500 SHEET A1		CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE34-31042
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

FILE INFO BI2286-NAC-AS-XX-DR-C-CE34-31042.dwg 13/4/2023 1:12 PM

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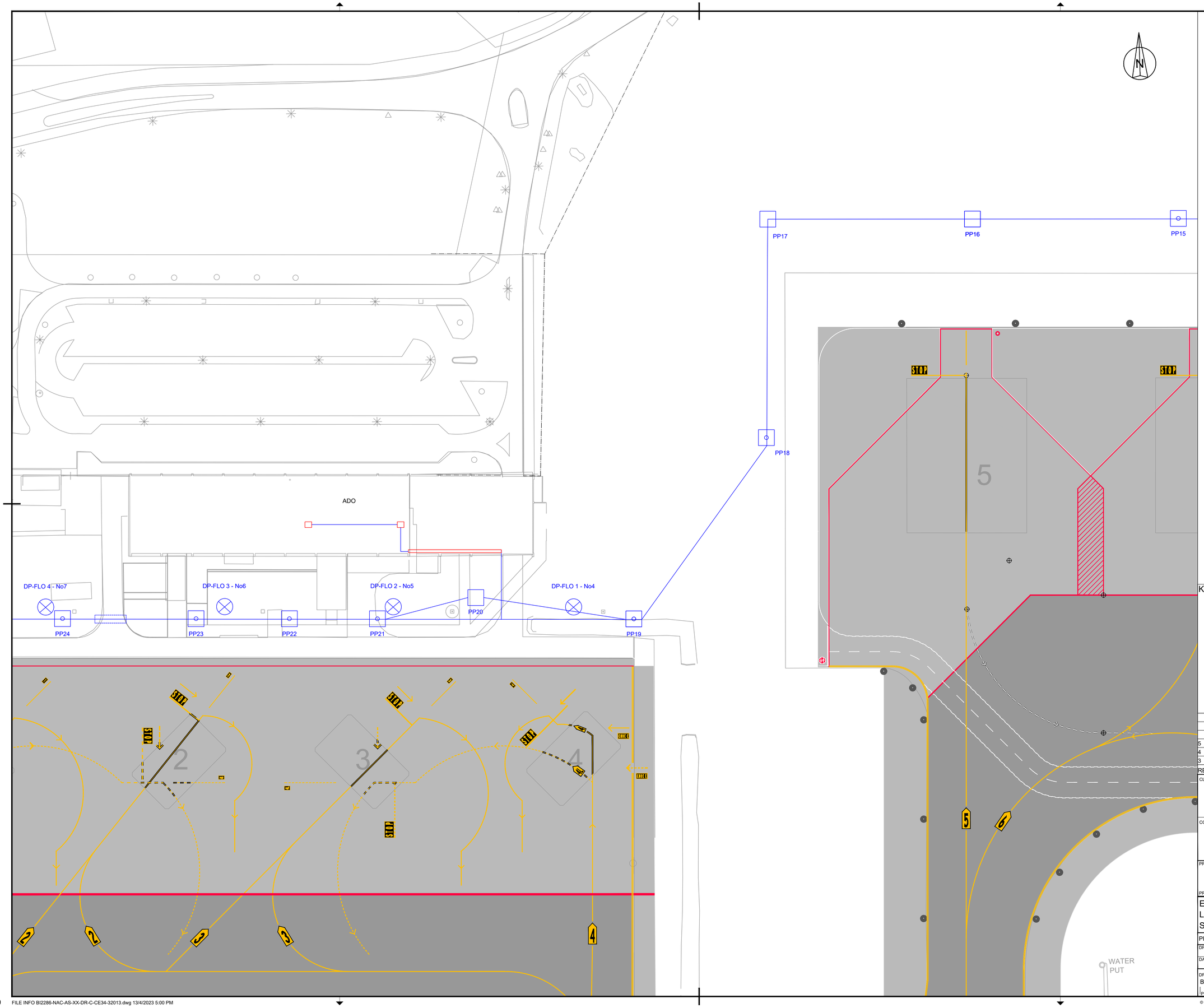

LEGEND:

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- F RUNWAY EDGE LIGHT, FLUSH MOUNTED
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- RUNWAY THRESHOLD LIGHT
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- WIND DIRECTION INDICATOR
- A 10 B SIGNS
- EARTH ROD

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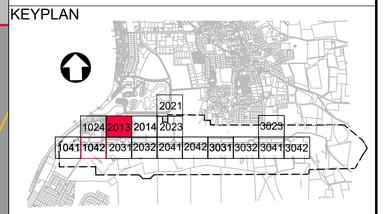
0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
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PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 2013

PHASE: FD | STATE: Final

DRAFT	CHB	CHECK	GJB	APPROVED	HVW
DATE	16-12-2022	SCALE 1:500 SHEET A1		CONTRACT NO.:	31096821.0017

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BI2286-NAC-AS-XX-DR-C-CE34-32013
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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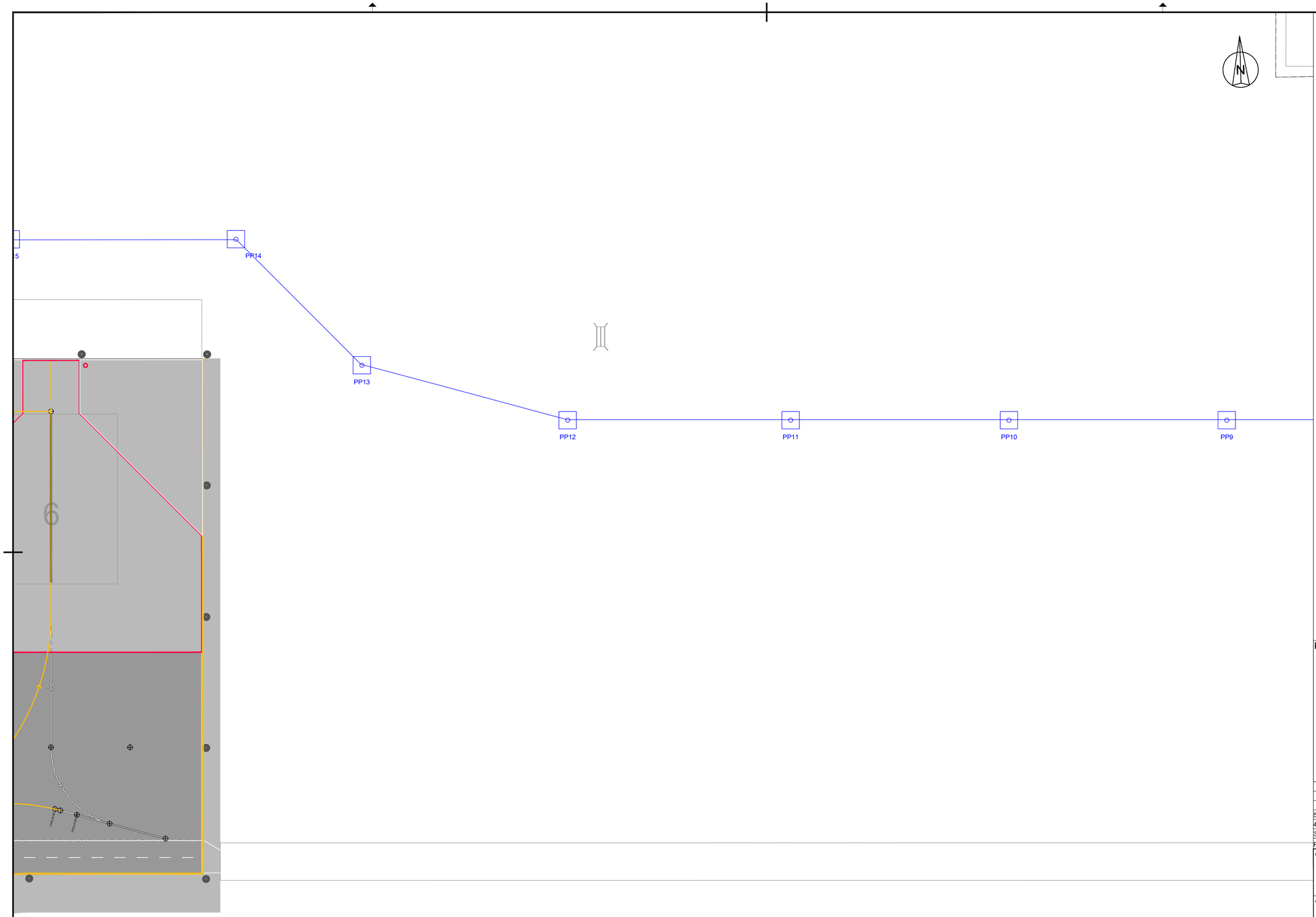

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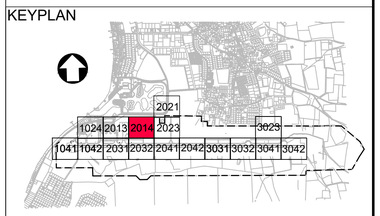
- WIND DIRECTION INDICATOR
- A 10 B SIGNS
- EARTH ROD

1. Meteorological equipment information provided is indicative only.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 2014

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
CHB	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-C-CE34-32014
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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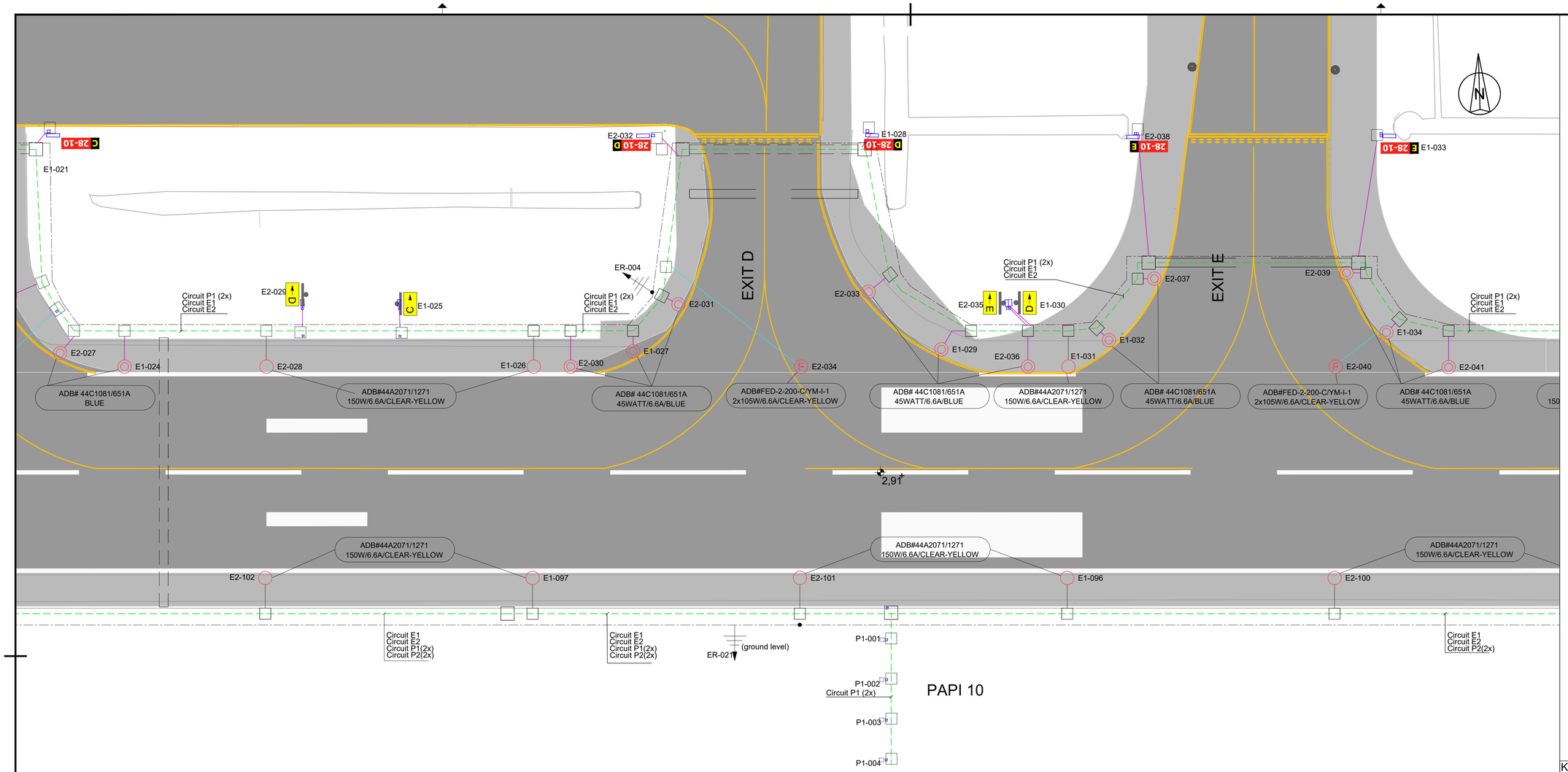

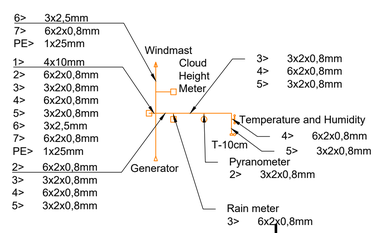

LEGEND:

- FENCE
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- SECONDARY CABLE IN CONDUIT Ø50mm
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- TAXIWAY/APRON EDGE LIGHT
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- RUNWAY THRESHOLD LIGHT
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0 10 20 30 40 50 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 2031

PHASE: FD | STATE: Final

DRAFT	CHB	CHECK	GJB	APPROVED	HVW
DATE	16-12-2022	SCALE 1:500 SHEET A1		CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE34-32031
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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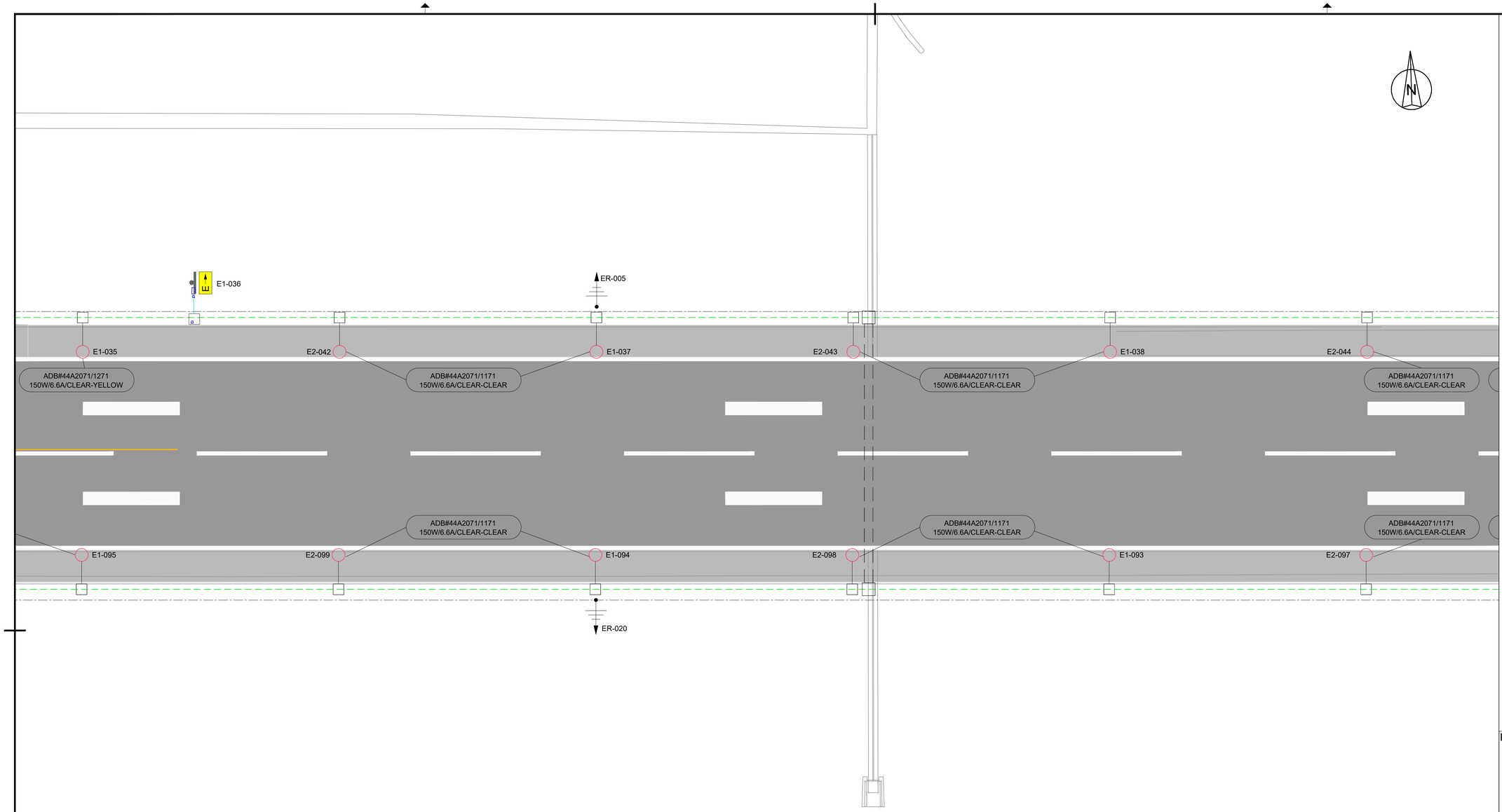

LEGEND:

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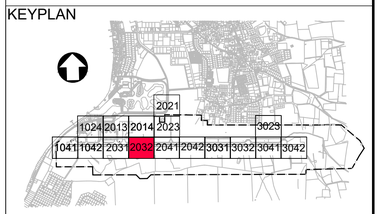
0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 2032

PHASE: FD		STATE: Final	
DRAFT CHB	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No. BI2286-NAC-AS-XX-DR-C-CE34-32032
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REVISION 5

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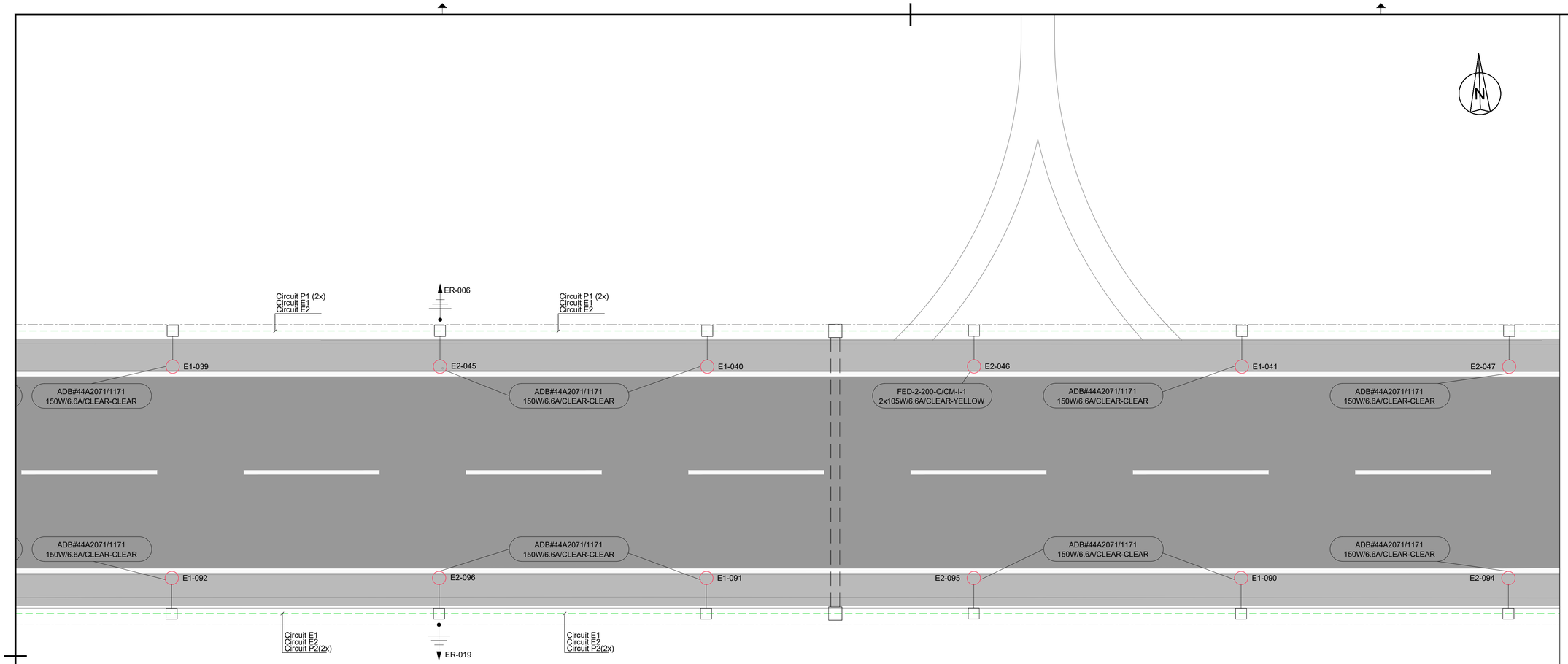

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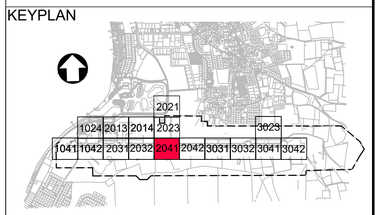
0 10 20 30 40 50 m

KEYPLAN



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3	16-12-2022	Draft Final Design	HvW

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Ministerie van Infrastructuur en Waterstaat

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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 2041

PHASE: FD		STATE: Final	
DRAFT CHB	CHECK GJB		APPROVED HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1		CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-C-CE34-32041
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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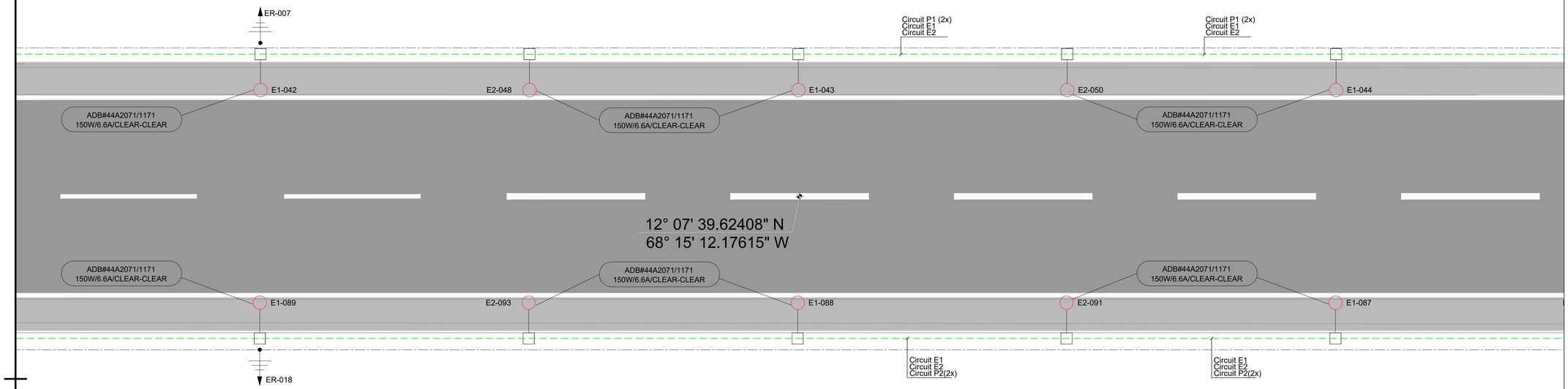
Do Not Scale



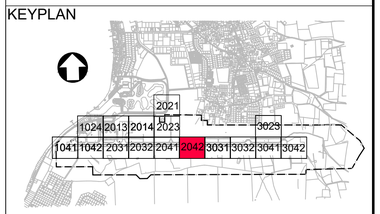
LEGEND:

- FENCE
- PRIMARY TRACE / CABLE DUCT
- SECONDARY CABLE IN SAW CUT
- SECONDARY CABLE IN CONDUIT Ø50mm
- SECONDARY CABLE IN CONDUIT
- COUNTERPOISE WIRE
- METEOROLOGICAL EQUIPMENT SYSTEM ACCESS (INSTALLED IN 2015 PROJECT)
- LIGHTING CABLE (INSTALLED IN 2015 PROJECT)
- LIGHTING CABLE UNDER PAVEMENT (INSTALLED IN 2015 PROJECT)
- DP-FLO x – Nox LIGHTING MAST (INSTALLED IN 2015 PROJECT)
- PPxx LIGHTING MANHOLE (INSTALLED IN 2015 PROJECT)
- TRANSFORMER PIT
- HANDHOLE
- DUCT BANK (EXISTING, INSTALLED BEFORE THE RUNWAY EXTENSION PROJECT 2011)
- TAXIWAY/APRON EDGE LIGHT (OUT OF SCOPE)
- TAXIWAY/APRON EDGE LIGHT
- F RUNWAY EDGE LIGHT, FLUSH MOUNTED
- RUNWAY EDGE LIGHT
- F RUNWAY THRESHOLD LIGHT, FLUSH MOUNTED
- RUNWAY THRESHOLD LIGHT
- F RUNWAY END LIGHT, FLUSH MOUNTED
- RUNWAY END LIGHT
- F APPROACH LIGHT, FLUSH MOUNTED
- APPROACH LIGHT
- TAXIWAY EDGE LIGHT (SOLAR)
- WIND DIRECTION INDICATOR
- A 10 B SIGNS
- EARTH ROD

1. Meteorological equipment information provided is indicative only.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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Ministerie van Infrastructuur en Waterstaat

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P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 2042

PHASE: FD		STATE: Final	
DRAFT CHB	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE34-32042
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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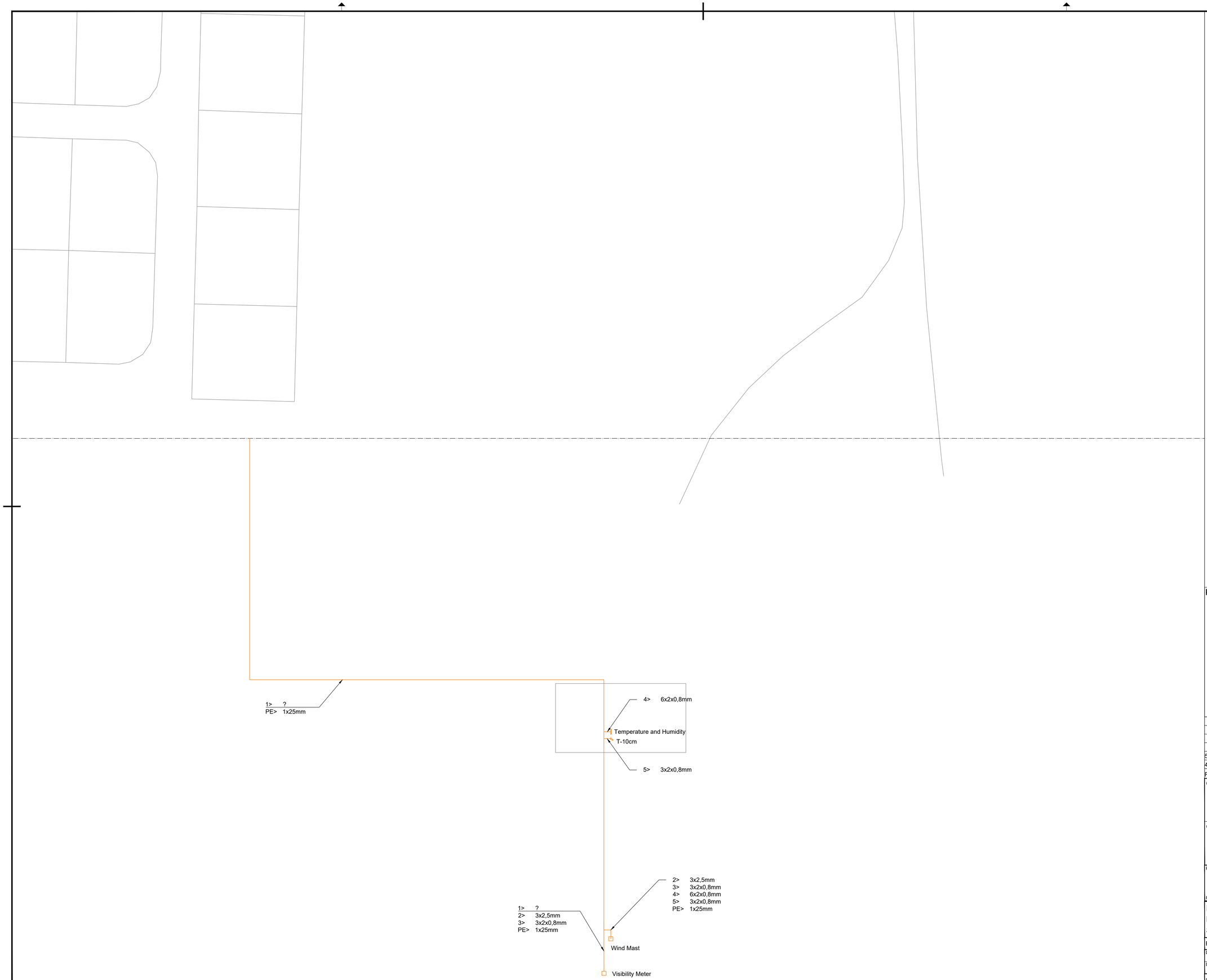

LEGEND:

- FENCE
- PRIMARY TRACE / CABLE DUCT
- SECONDARY CABLE IN SAW CUT
- SECONDARY CABLE IN CONDUIT Ø50mm
- SECONDARY CABLE IN CONDUIT
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- F RUNWAY EDGE LIGHT, FLUSH MOUNTED
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- RUNWAY THRESHOLD LIGHT
- F RUNWAY END LIGHT, FLUSH MOUNTED
- RUNWAY END LIGHT
- F APPROACH LIGHT, FLUSH MOUNTED
- APPROACH LIGHT
- TAXIWAY EDGE LIGHT (SOLAR)
- WIND DIRECTION INDICATOR
- A 10 B SIGNS
- EARTH ROD

1. Meteorological equipment information provided is indicative only.

0 10 20 30 40 50 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW

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www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Civil Works for AGL & Utilities
Layout
Sector 3023

PHASE: FD		STATE: Final	
DRAFT CHB	CHECK GJB		APPROVED HVW
DATE 16-02-2023	SCALE 1:500 SHEET A1		CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE34-33023
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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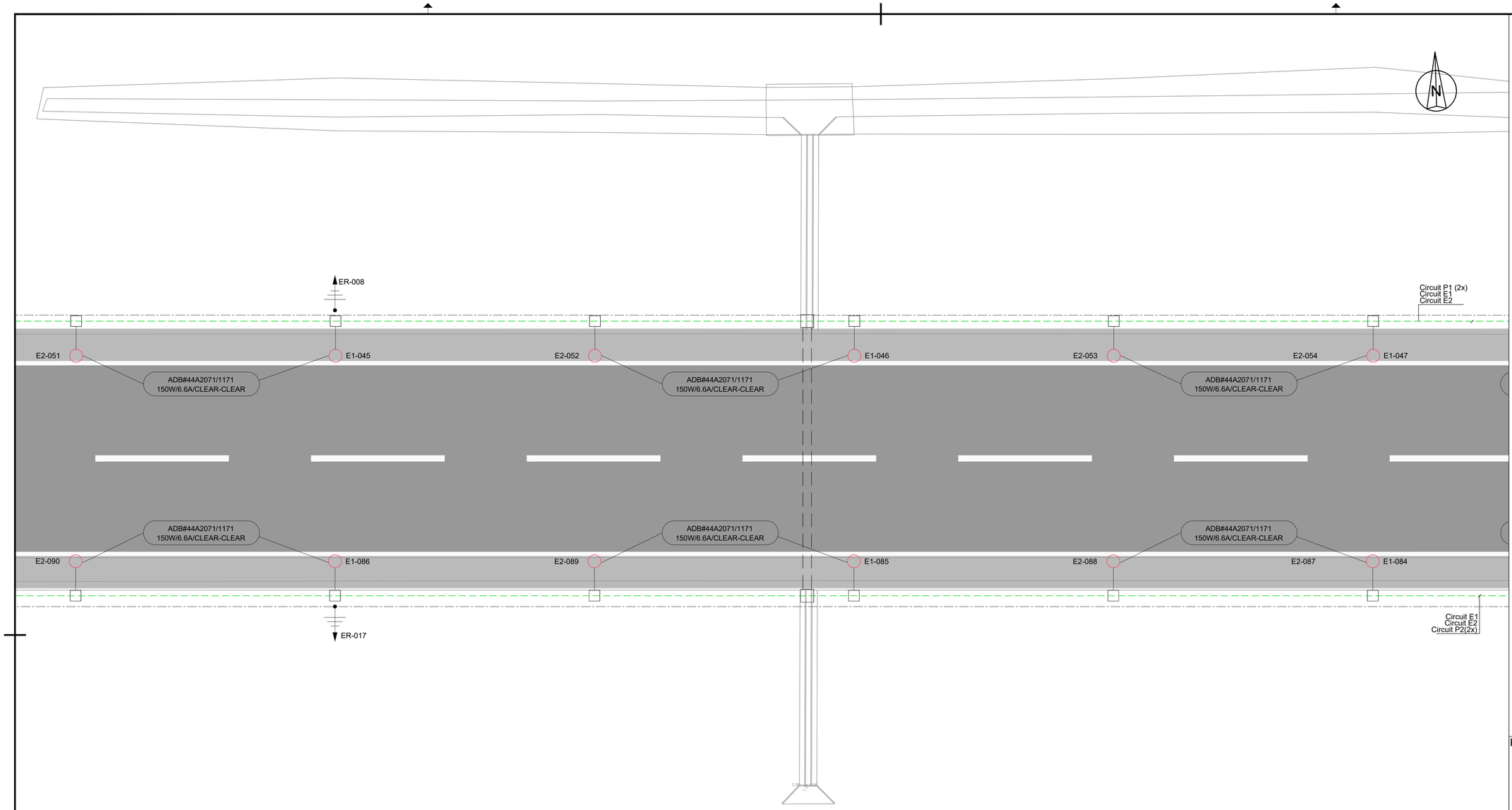

LEGEND:

- FENCE
- PRIMARY TRACE / CABLE DUCT
- SECONDARY CABLE IN SAW CUT
- SECONDARY CABLE IN CONDUIT Ø50mm
- SECONDARY CABLE IN CONDUIT
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- ACCESS (INSTALLED IN 2015 PROJECT)
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- APPROACH LIGHT
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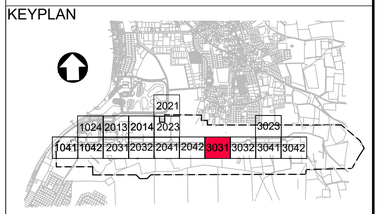
- WIND DIRECTION INDICATOR
- A 10 B SIGNS
- EARTH ROD

1. Meteorological equipment information provided is indicative only.

0 10 20 30 40 50 m

KEYPLAN



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PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 3031

PHASE: FD		STATE: Final
DRAFT CHB	CHECK GJB	APPROVED HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-C-CE34-33031
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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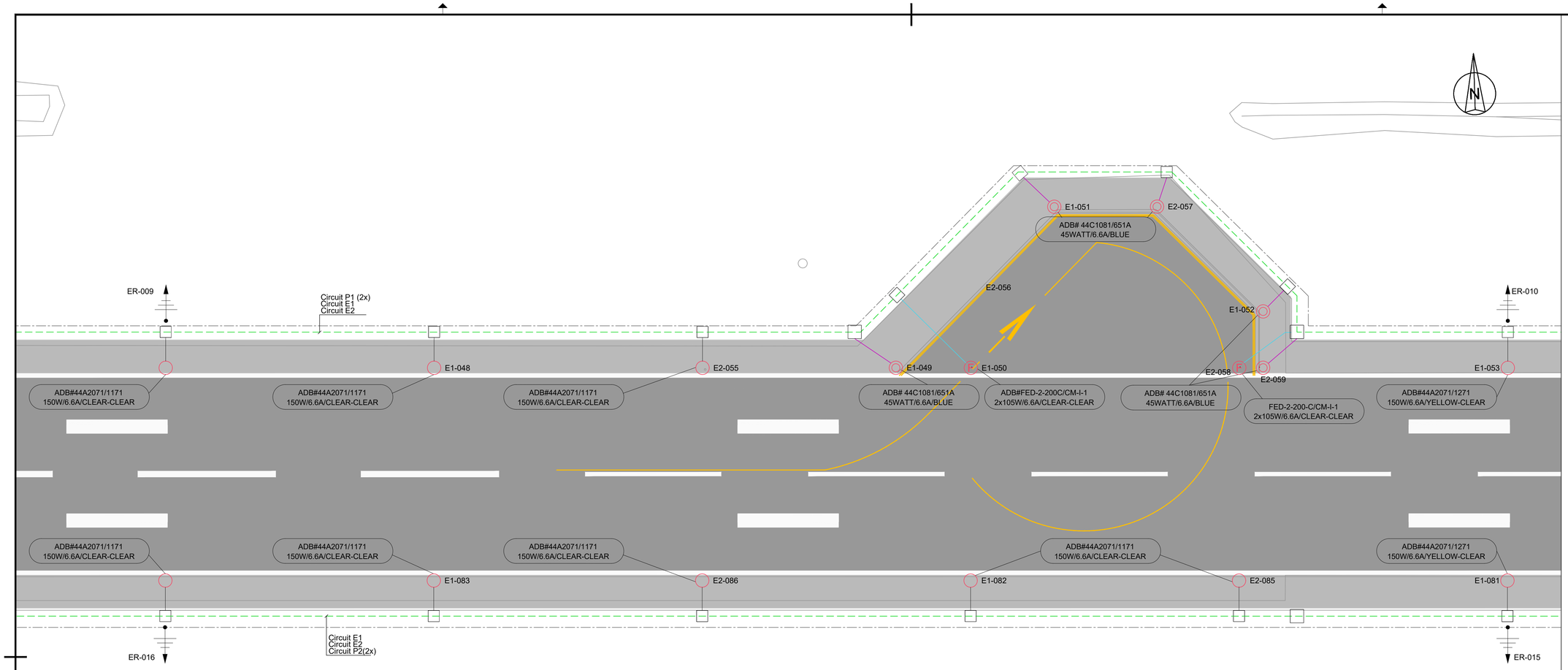

LEGEND:

- FENCE
- PRIMARY TRACE / CABLE DUCT
- SECONDARY CABLE IN SAW CUT
- SECONDARY CABLE IN CONDUIT Ø50mm
- SECONDARY CABLE IN CONDUIT
- COUNTERPOISE WIRE
- METEOROLOGICAL EQUIPMENT SYSTEM
- ACCESS (INSTALLED IN 2015 PROJECT)
- LIGHTING CABLE (INSTALLED IN 2015 PROJECT)
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- DP-FLO x – Nox LIGHTING MAST (INSTALLED IN 2015 PROJECT)
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- HANDHOLE
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- TAXIWAY/APRON EDGE LIGHT (OUT OF SCOPE)
- TAXIWAY/APRON EDGE LIGHT
- RUNWAY EDGE LIGHT, FLUSH MOUNTED
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- RUNWAY THRESHOLD LIGHT, FLUSH MOUNTED
- RUNWAY THRESHOLD LIGHT
- RUNWAY END LIGHT, FLUSH MOUNTED
- RUNWAY END LIGHT
- APPROACH LIGHT, FLUSH MOUNTED
- APPROACH LIGHT
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- WIND DIRECTION INDICATOR
- A 10 B SIGNS
- EARTH ROD

1. Meteorological equipment information provided is indicative only.

0 10 20 30 40 50 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
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TEL.: +31 88 348 13 00
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PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 3032

PHASE: FD		STATE: Final	
DRAFT CHB	CHECK GJB		APPROVED HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1		CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-C-CE34-33032
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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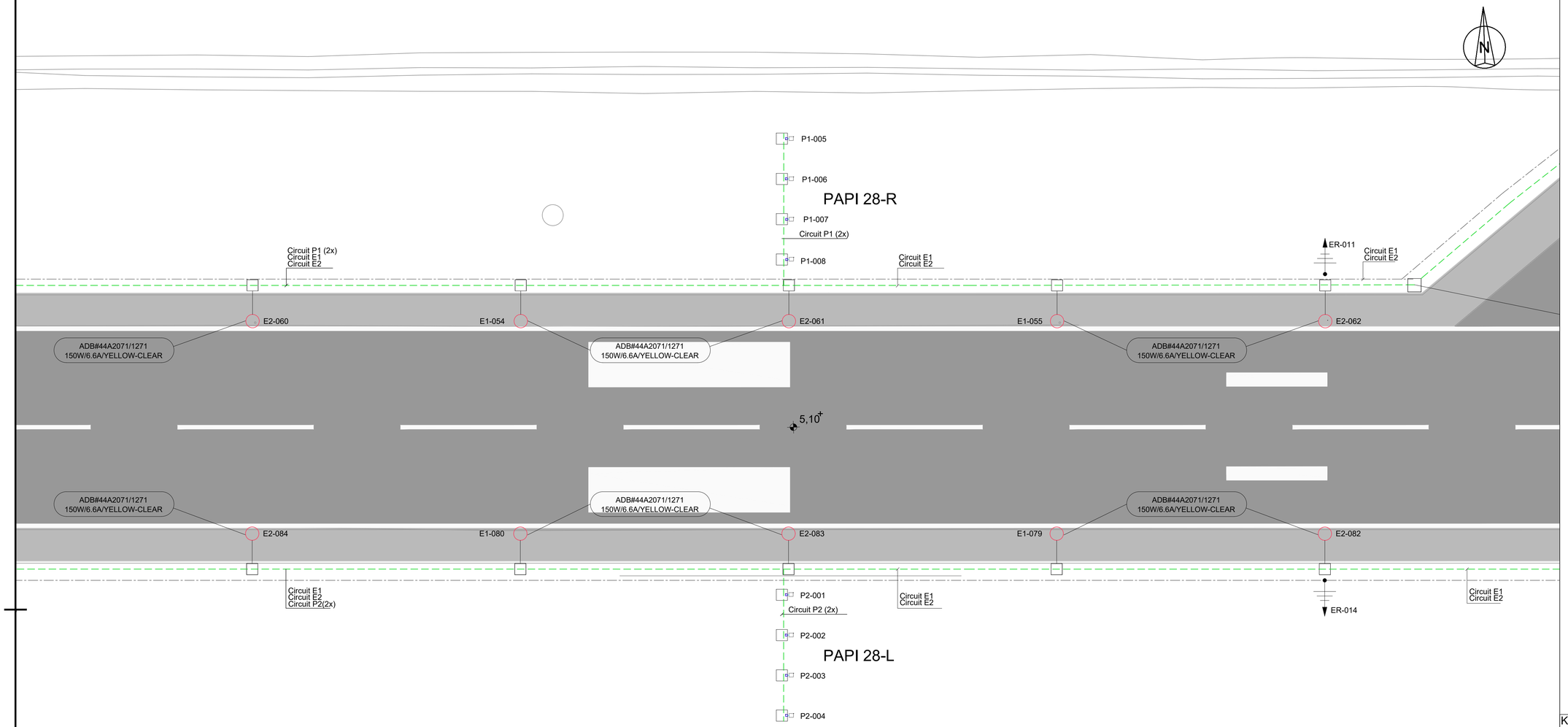

LEGEND:

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- RUNWAY END LIGHT
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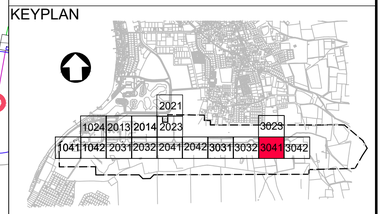
- APPROACH LIGHT
- TAXIWAY EDGE LIGHT (SOLAR)
- WIND DIRECTION INDICATOR
- A 10 B SIGNS
- EARTH ROD

1. Meteorological equipment information provided is indicative only.

0 10 20 30 40 50 m

KEYPLAN



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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire
International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 3041

PHASE: FD		STATE: Final	
DRAFT CHB	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE34-33041
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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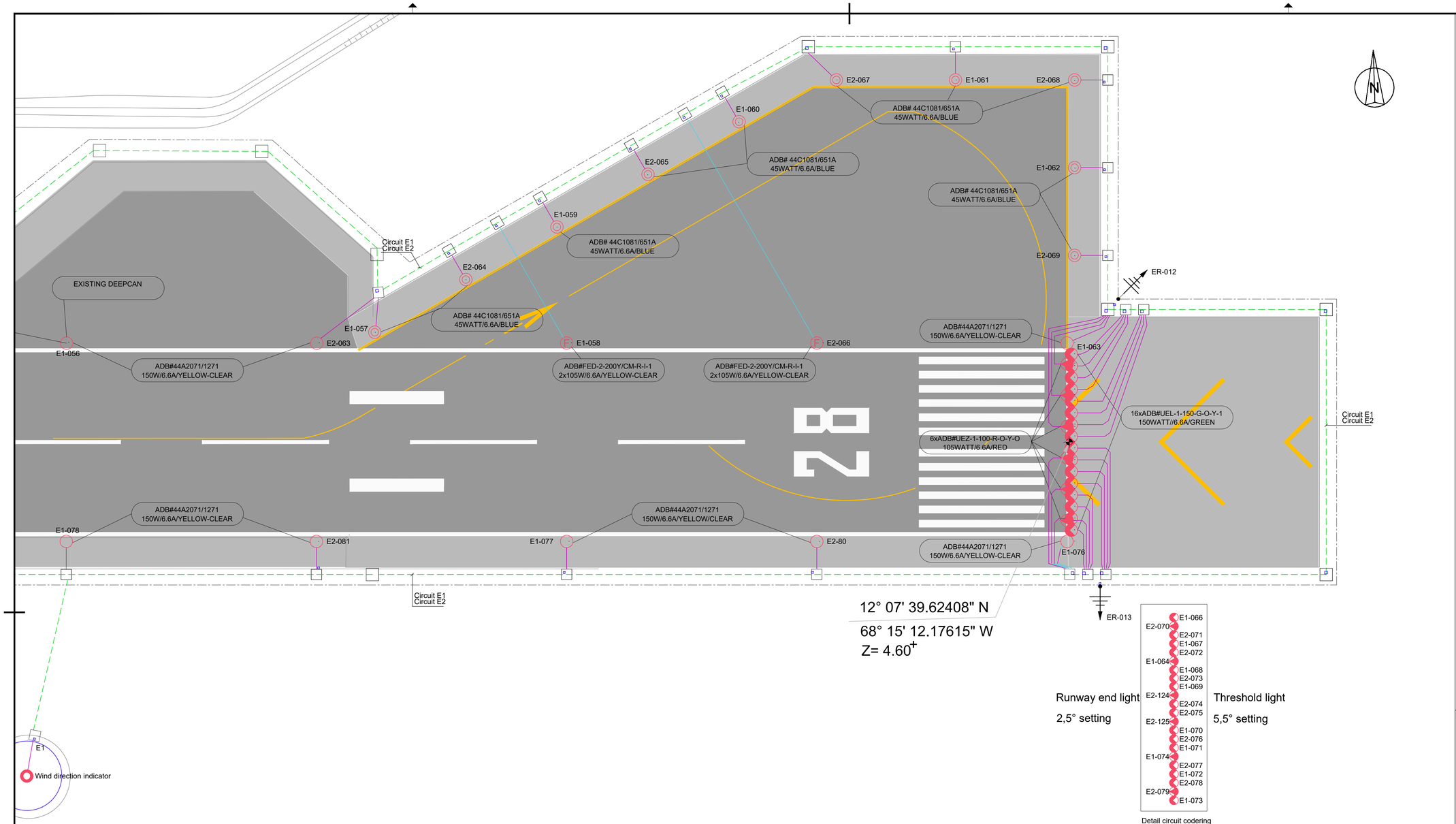

Detail circuit codering

LEGEND:

- FENCE
- PRIMARY TRACE / CABLE DUCT
- SECONDARY CABLE IN SAW CUT
- SECONDARY CABLE IN CONDUIT Ø50mm
- SECONDARY CABLE IN CONDUIT
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- RUNWAY EDGE LIGHT, FLUSH MOUNTED
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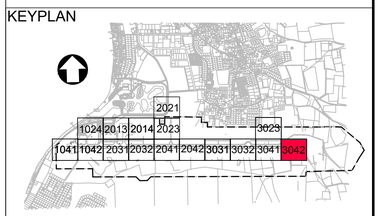
- APPROACH LIGHT
- TAXIWAY EDGE LIGHT (SOLAR)
- WIND DIRECTION INDICATOR
- A 10 B → SIGNS
- EARTH ROD

1. Meteorological equipment information provided is indicative only.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HVW
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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Existing Infrastructure for AGL & Utilities
Layout
Sector 3042

PHASE: FD		STATE: Final	
DRAFT CHB	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE34-33042
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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LEGEND:

- FENCE
- FENCE TO BE REMOVED
- PRIMARY TRACE / CABLE TO BE REMOVED BY OTHERS
- SECONDARY CABLE IN SAW CUT TO BE REMOVED
- EXISTING SECONDARY DUCT WILL BE RETAINED FOR USE WITH NEW REPLACEMENT FIXTURE
- SECONDARY CABLE IN CONDUIT TO BE REMOVED
- COUNTERPOISE WIRE TO BE REMOVED
- TRANSFORMER PIT TO BE REMOVED
- HANDHOLE TO BE REMOVED
- EXISTING DUCT BANK
- F RUNWAY EDGE LIGHT, FLUSH MOUNTED TO BE REMOVED
- RUNWAY EDGE LIGHT TO BE REMOVED
- F RUNWAY THRESHOLD LIGHT, FLUSH MOUNTED TO BE REMOVED
- RUNWAY THRESHOLD LIGHT TO BE REMOVED
- F RUNWAY END LIGHT, FLUSH MOUNTED TO BE REMOVED
- RUNWAY END LIGHT TO BE REMOVED
- F APPROACH LIGHT, FLUSH MOUNTED TO BE REMOVED
- APPROACH LIGHT TO BE REMOVED
- TAXIWAY EDGE LIGHT (SOLAR) TO BE REMOVED
- TAXIWAY EDGE/APRON LIGHT TO BE REMOVED
- E 28-10 SIGNS TO BE REMOVED
- PAPI TO BE REMOVED
- EARTH ROD TO BE REMOVED BY OTHERS
- TAXIWAY/APRON EDGE LIGHT (OUT OF SCOPE)
- FLOODLIGHT

NOTES

1. All removed lights (excluding PAPI's) to be disposed by the Contractor. Existing PAPI units to be handed over to the Client.
2. All lights and signs are to be kept operational during the opening hours of the runway.
3. Existing primary cables to be removed by the Client.

0 100 200 300 400 500 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
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TEL.: +31 88 348 13 00
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PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Overview

PHASE: FD		STATE: Final	
DRAFT RS	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL06-30001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

FILE INFO BI2286-NAC-AS-XX-DR-E-EL06-30001.dwg 13/4/2023 1:18 PM

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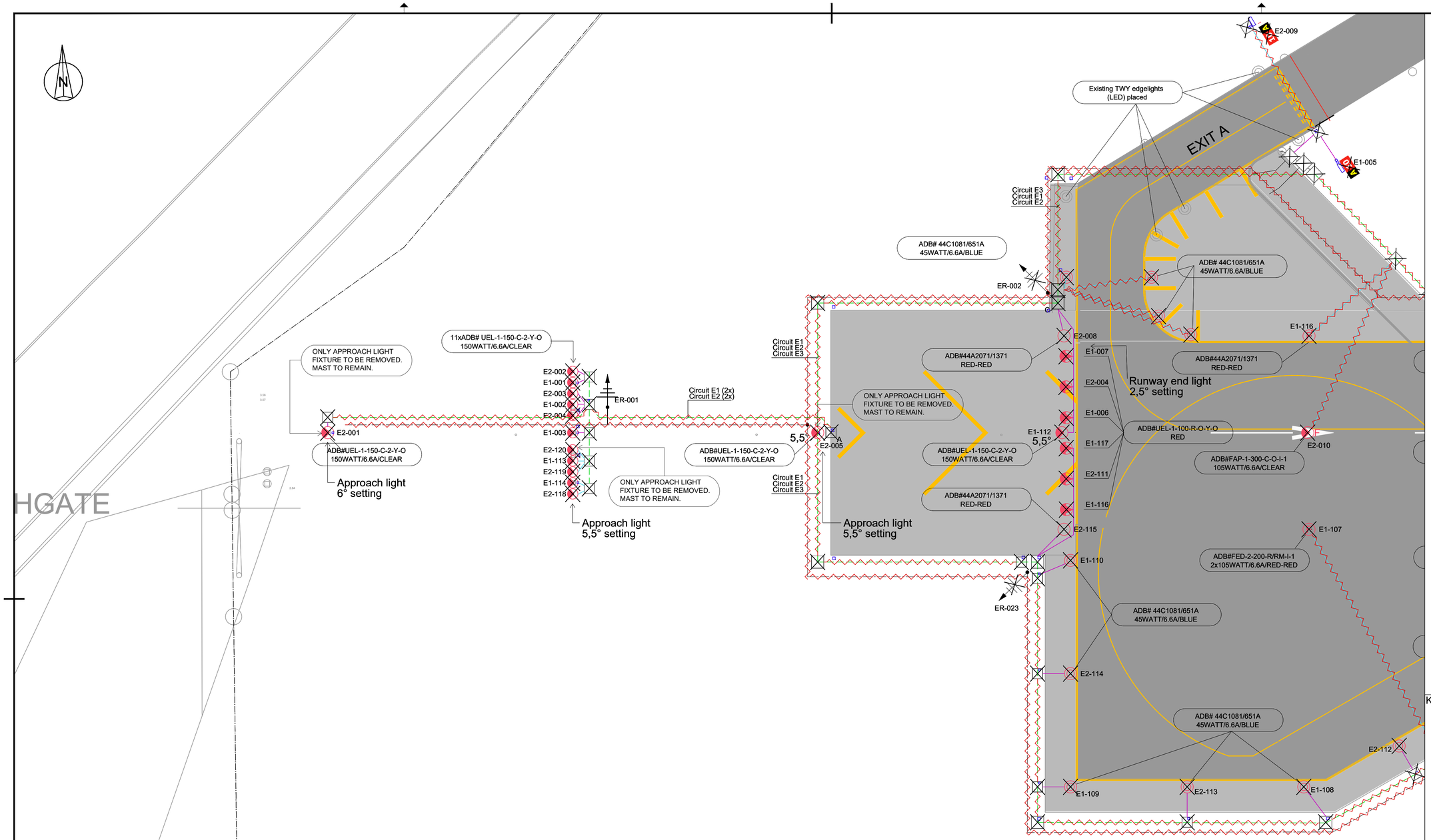

LEGEND:

- FENCE
- FENCE TO BE REMOVED
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- SECONDARY CABLE IN SAW CUT TO BE REMOVED
- EXISTING SECONDARY DUCT WILL BE RETAINED FOR USE WITH NEW REPLACEMENT FIXTURE
- SECONDARY CABLE IN CONDUIT TO BE REMOVED
- COUNTERPOISE WIRE TO BE REMOVED
- TRANSFORMER PIT TO BE REMOVED
- HANDHOLE TO BE REMOVED
- EXISTING DUCT BANK
- RUNWAY EDGE LIGHT, FLUSH MOUNTED TO BE REMOVED
- RUNWAY EDGE LIGHT TO BE REMOVED
- F RUNWAY THRESHOLD LIGHT, FLUSH MOUNTED TO BE REMOVED
- RUNWAY THRESHOLD LIGHT TO BE REMOVED
- F RUNWAY END LIGHT, FLUSH MOUNTED TO BE REMOVED
- RUNWAY END LIGHT TO BE REMOVED
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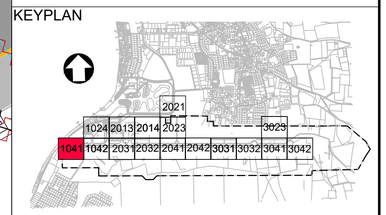
- APPROACH LIGHT TO BE REMOVED
- TAXIWAY EDGE LIGHT (SOLAR) TO BE REMOVED
- TAXIWAY EDGE/APRON LIGHT TO BE REMOVED
- E 2X-10 SIGNS TO BE REMOVED
- PAPI TO BE REMOVED
- EARTH ROD TO BE REMOVED BY OTHERS
- TAXIWAY/APRON EDGE LIGHT (OUT OF SCOPE)
- FLOODLIGHT

NOTES
1. Existing primary cables to be removed by the Client.

0 10 20 30 40 50 m

KEYPLAN



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3	16-12-2022	Draft Final Design	HvW

CLIENT
Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

CONSULTANT
NACO
a company of Royal HaskoningDHV
NACO, NETHERLANDS AIRPORT CONSULTANTS
SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
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TEL.: +31 88 348 13 00
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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 1041

PHASE: FD		STATE: Final	
DRAFT DH	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL06-31041
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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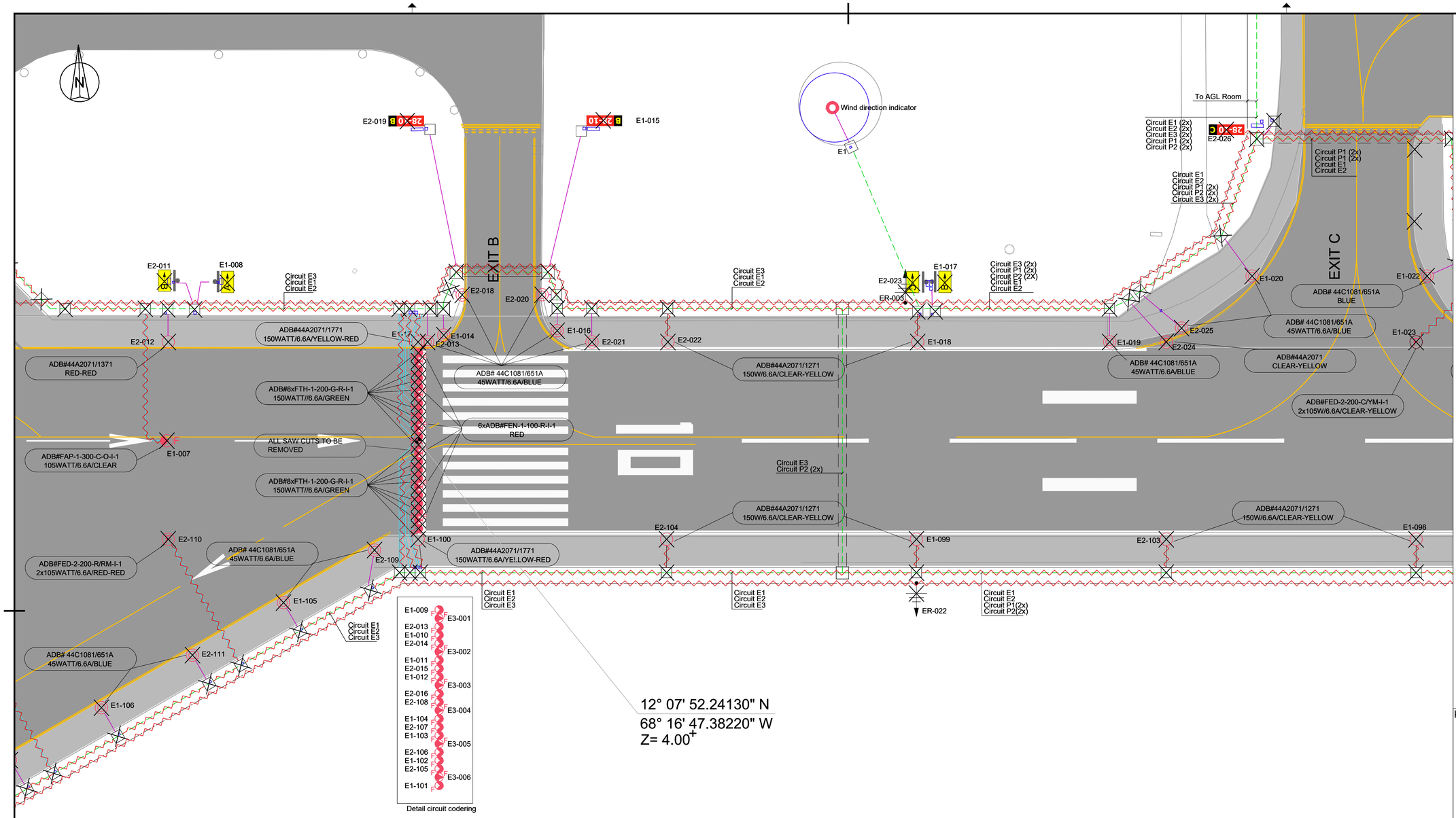
Do Not Scale



LEGEND:

- FENCE
- FENCE TO BE REMOVED
- PRIMARY TRACE / CABLE TO BE REMOVED BY OTHERS
- SECONDARY CABLE IN SAW CUT TO BE REMOVED
- EXISTING SECONDARY DUCT WILL BE RETAINED FOR USE WITH NEW REPLACEMENT FIXTURE
- SECONDARY CABLE IN CONDUIT TO BE REMOVED
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- HANDHOLE TO BE REMOVED
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- RUNWAY EDGE LIGHT, FLUSH MOUNTED TO BE REMOVED
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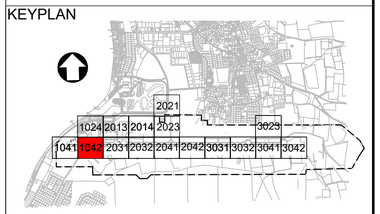
- EARTH ROD TO BE REMOVED BY OTHERS
- TAXIWAY/APRON EDGE LIGHT (OUT OF SCOPE)
- FLOODLIGHT

NOTES

1. Existing primary cables to be removed by the Client.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
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CLIENT

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PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 1042

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
DH	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL06-31042
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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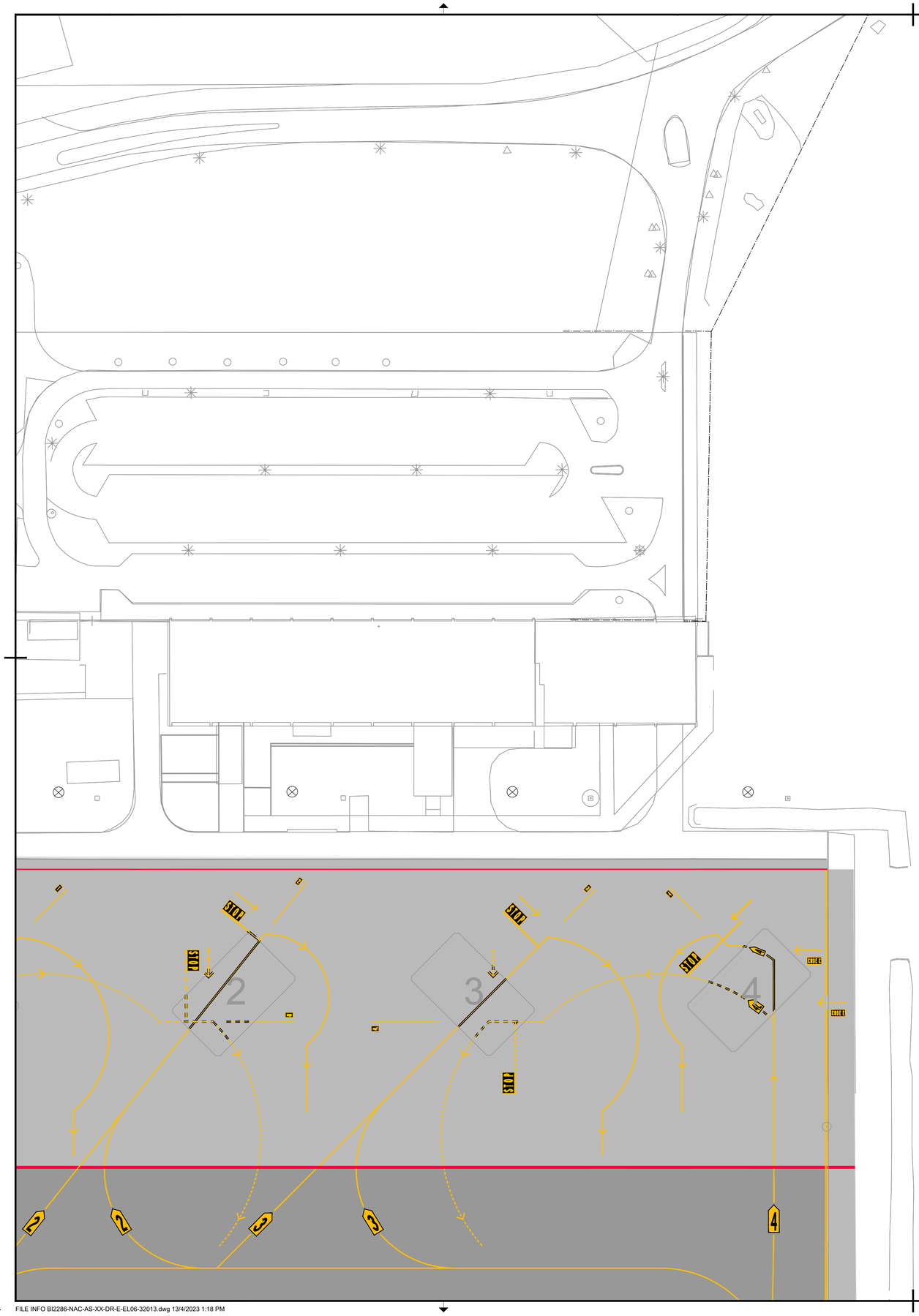
Do Not Scale



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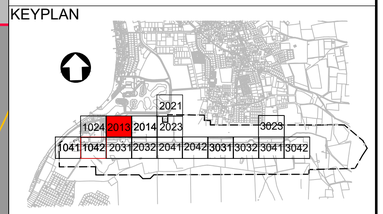
- FLOODLIGHT

NOTES

1. Existing primary cables to be removed by the Client.

0 10 20 30 40 50 m

KEYPLAN



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PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 2013

PHASE: FD		STATE: Final
DRAFT DH	CHECK GJB	APPROVED HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL06-32013
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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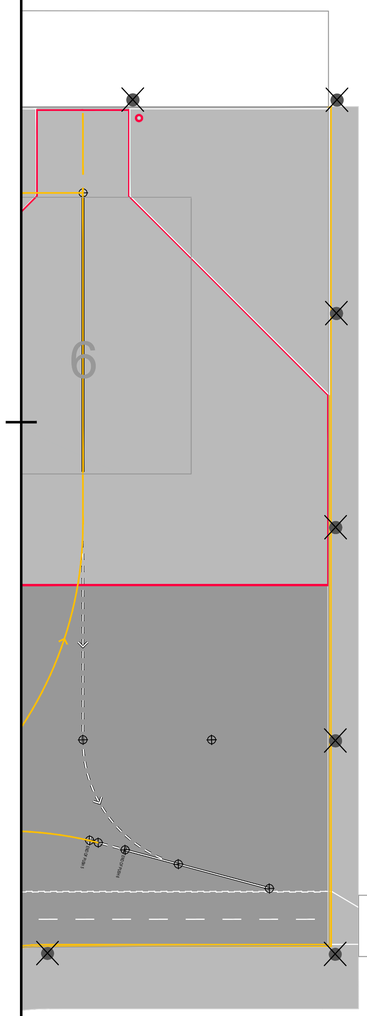

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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 2014

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
DH	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL06-32014
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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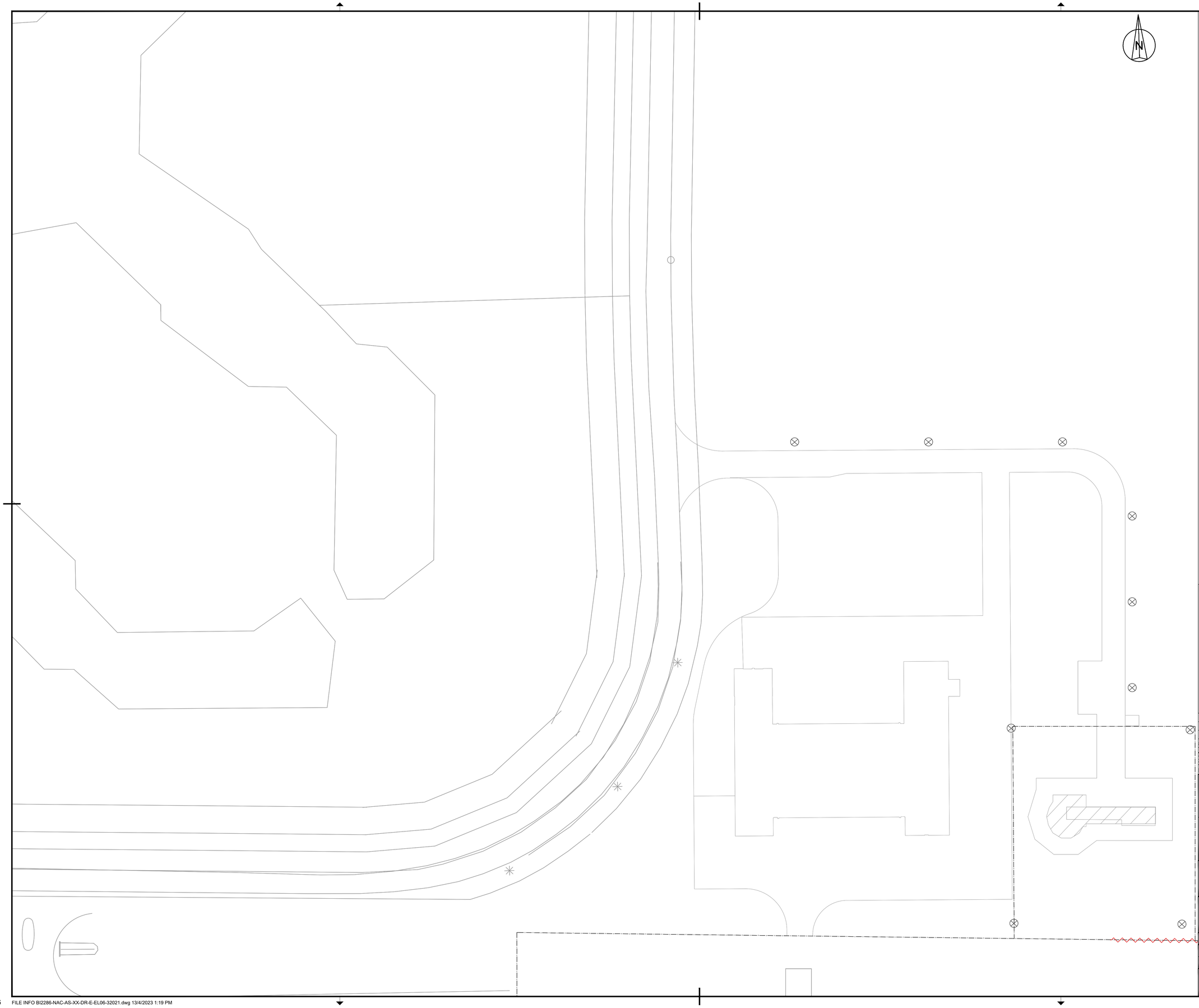

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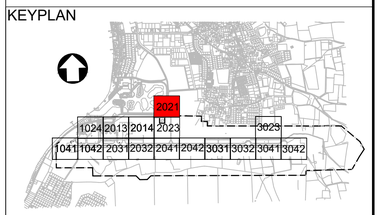
NOTES
1. Existing primary cables to be removed by the Client.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
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Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 2021

PHASE: FD
STATE: Final

DRAFT	DH	CHECK	GJB	APPROVED	HVW
DATE	16-12-2022	SCALE SHEET	1:500 A1	CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL06-32021
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION
5

FILE INFO BI2286-NAC-AS-XX-DR-E-EL06-32021.dwg 13/4/2023 1:19 PM

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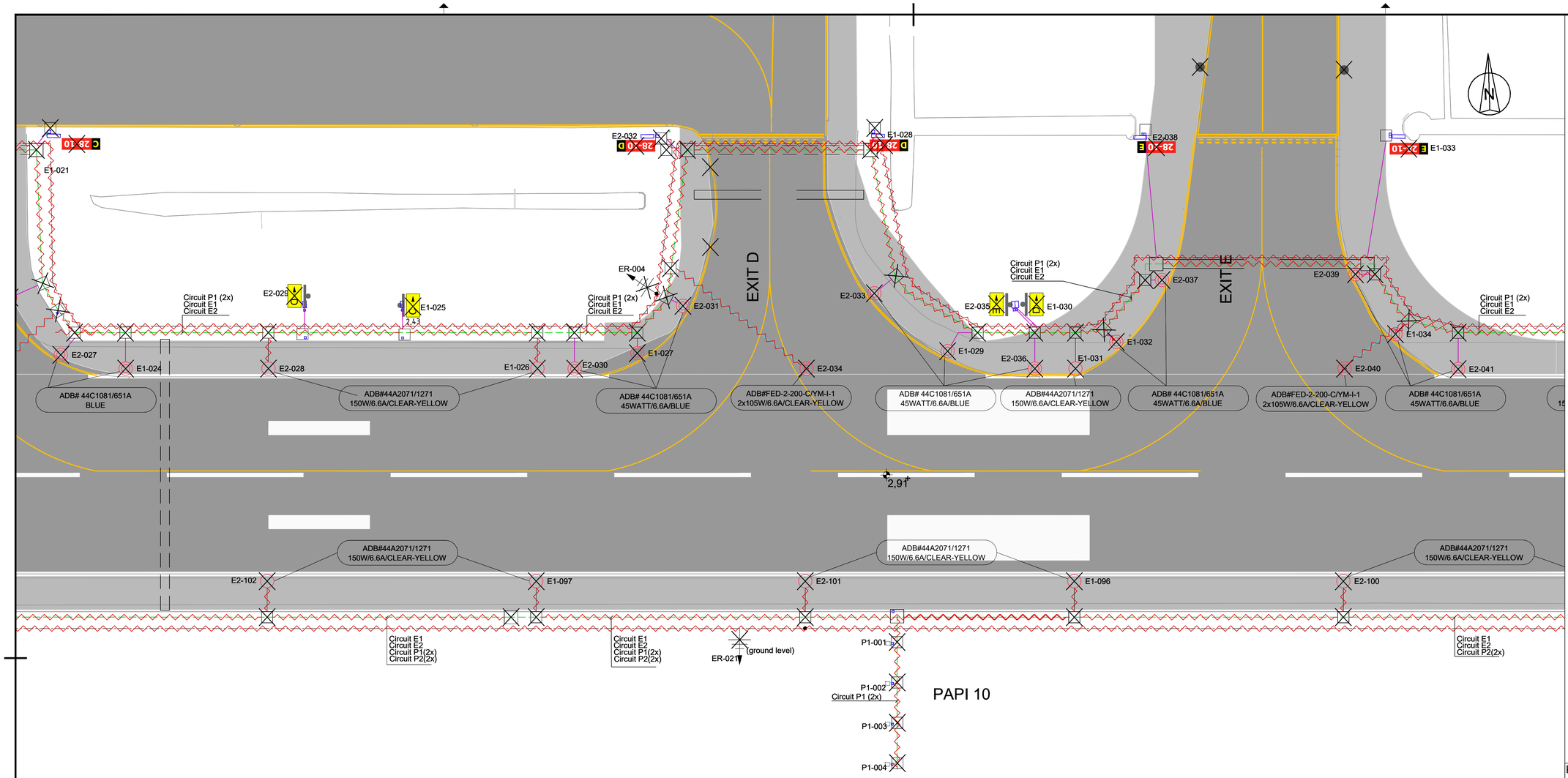

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NOTES
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KEYPLAN

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CLIENT
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Ministerie van Infrastructuur en Waterstaat

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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 2031

PHASE: FD		STATE: Final	
DRAFT DH	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL06-32031
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ
REVISION 5

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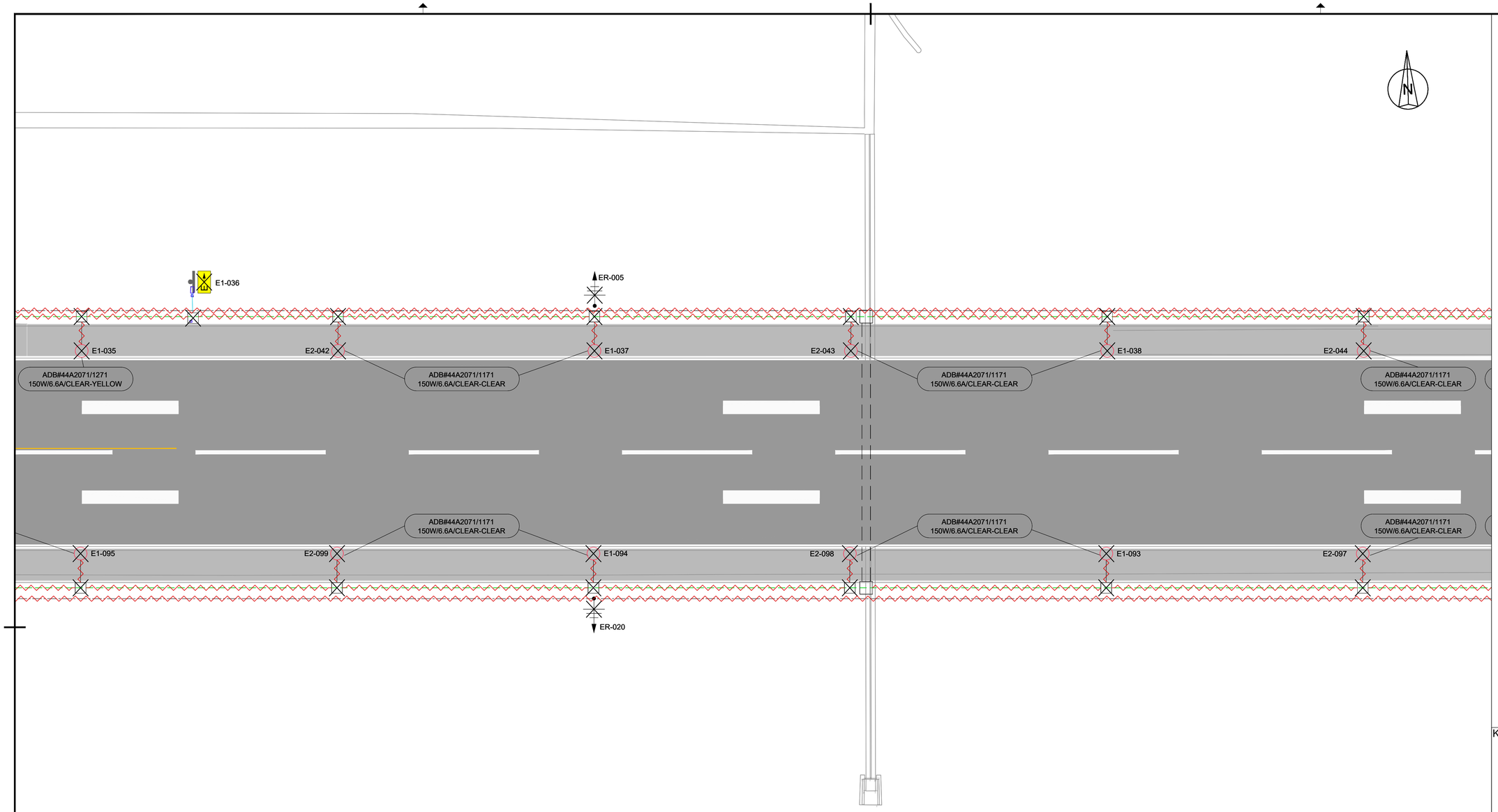

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NOTES
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0 10 20 30 40 50 m

KEYPLAN

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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 2032

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
DH	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL06-32032
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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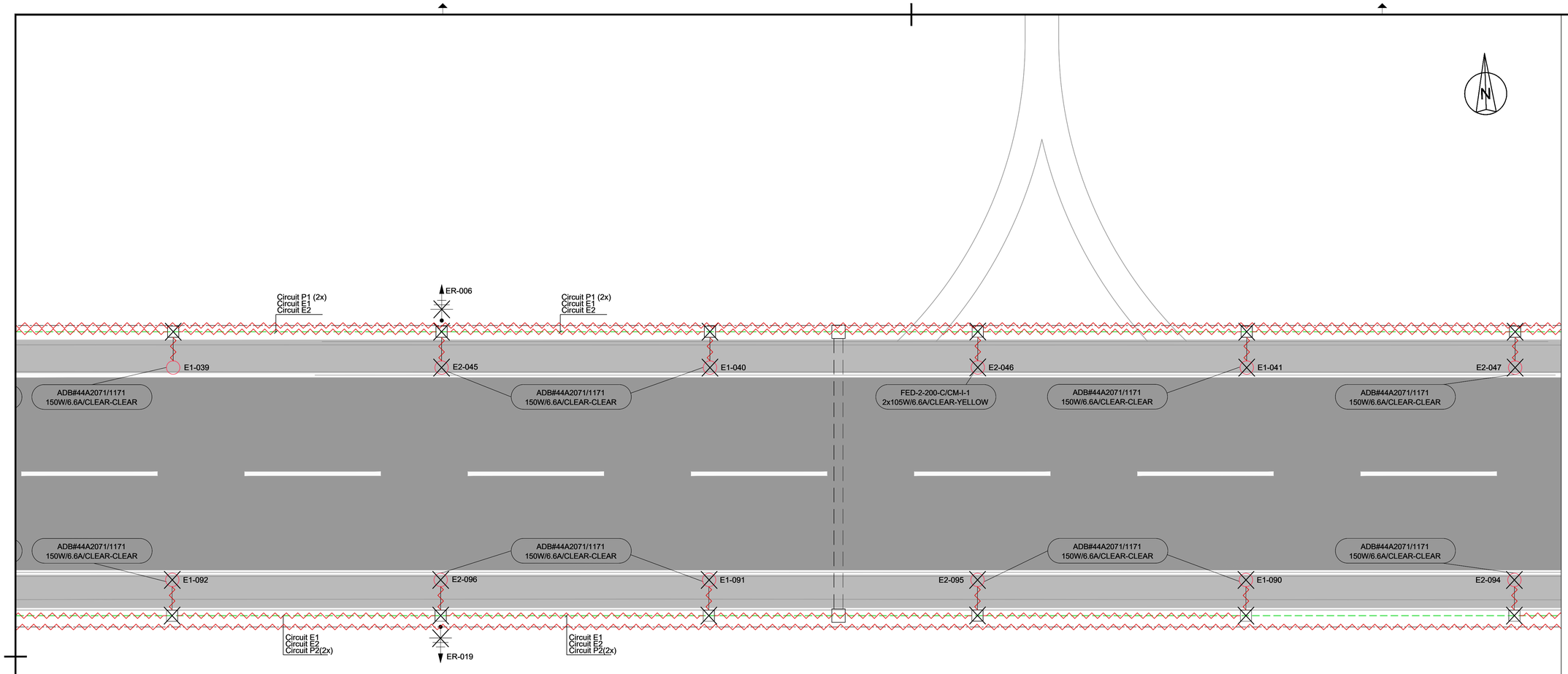
Do Not Scale



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0 10 20 30 40 50 m

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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 2041

PHASE: FD		STATE: Final
DRAFT DH	CHECK GJB	APPROVED HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL06-32041
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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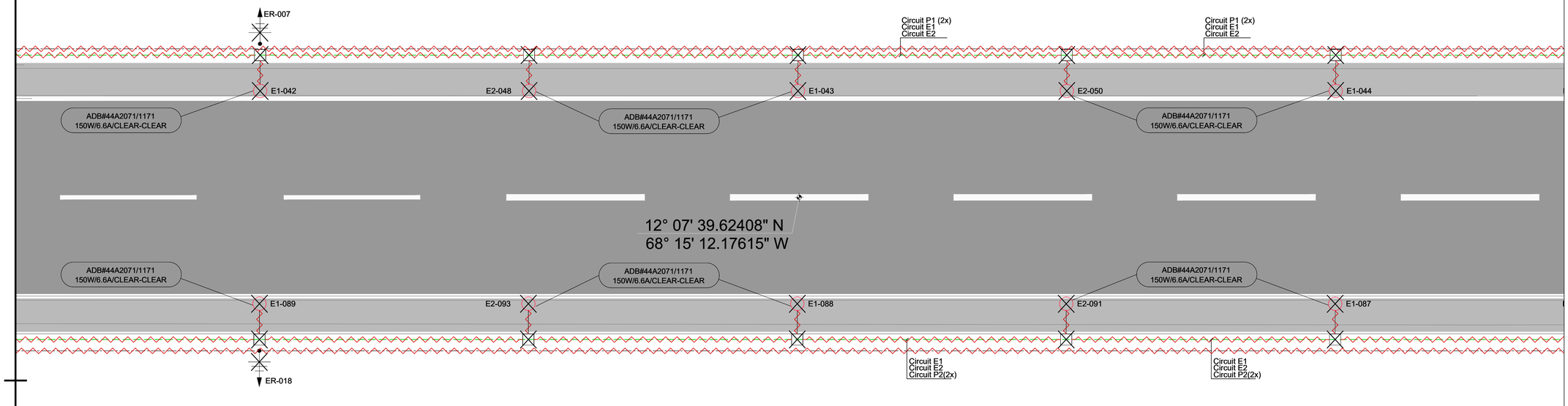

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0 10 20 30 40 50 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

CONSULTANT
NACO
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NACO, NETHERLANDS AIRPORT CONSULTANTS
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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 2042

PHASE: FD
STATE: Final

DRAFT	CHECK	APPROVED
DH	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL06-32042
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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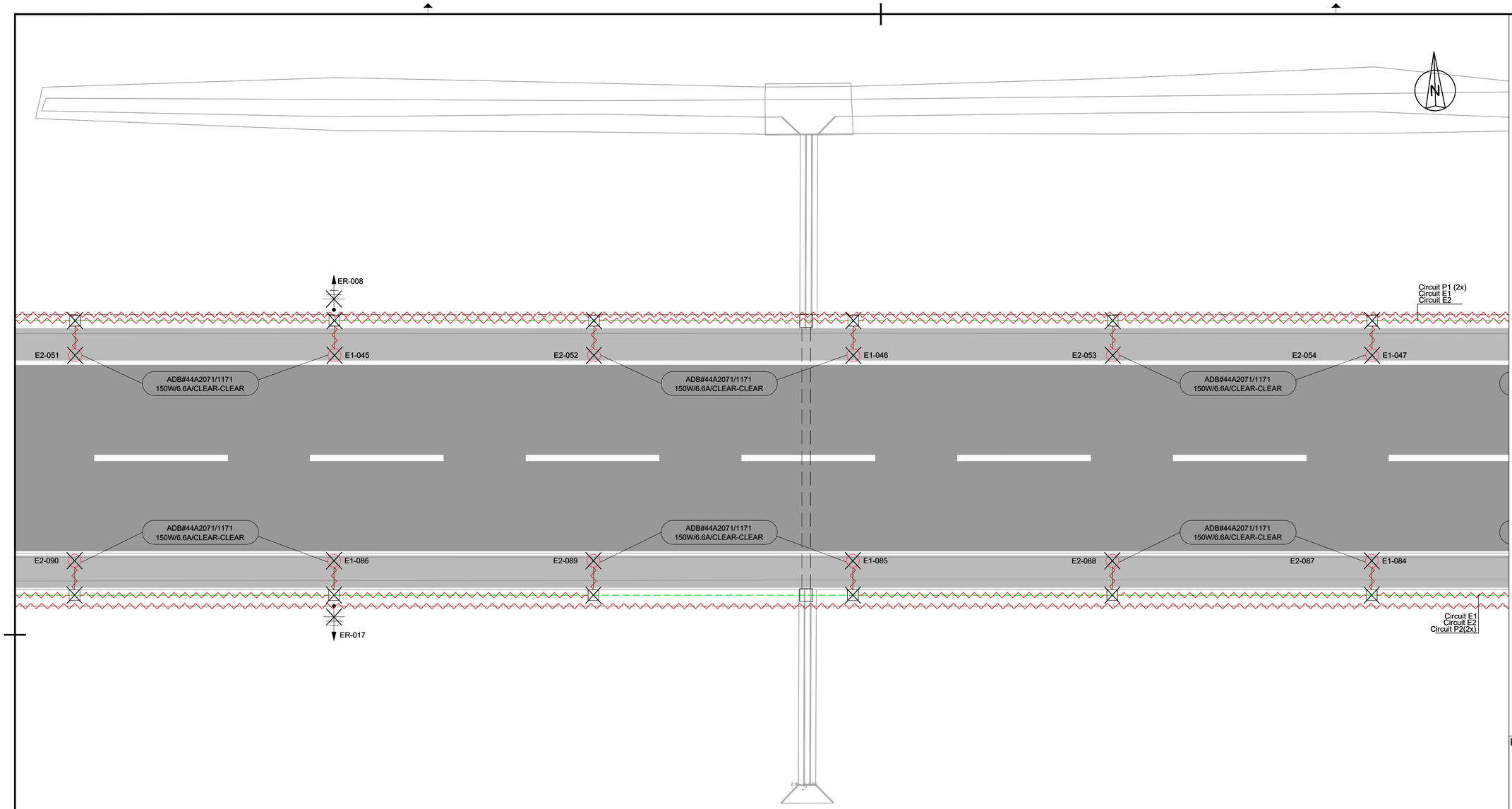
Do Not Scale



LEGEND:

- FENCE
- FENCE TO BE REMOVED
- PRIMARY TRACE / CABLE TO BE REMOVED BY OTHERS
- SECONDARY CABLE IN SAW CUT TO BE REMOVED
- EXISTING SECONDARY DUCT WILL BE RETAINED FOR USE WITH NEW REPLACEMENT FIXTURE
- SECONDARY CABLE IN CONDUIT TO BE REMOVED
- COUNTERPOISE WIRE TO BE REMOVED
- TRANSFORMER PIT TO BE REMOVED
- HANDHOLE TO BE REMOVED
- EXISTING DUCT BANK
- RUNWAY EDGE LIGHT, FLUSH MOUNTED TO BE REMOVED
- RUNWAY EDGE LIGHT TO BE REMOVED
- F RUNWAY THRESHOLD LIGHT, FLUSH MOUNTED TO BE REMOVED
- RUNWAY THRESHOLD LIGHT TO BE REMOVED
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- TAXIWAY EDGE LIGHT (SOLAR) TO BE REMOVED
- TAXIWAY EDGE/APRON LIGHT TO BE REMOVED
- E 2X-10 SIGNS TO BE REMOVED
- PAPI TO BE REMOVED
- EARTH ROD TO BE REMOVED BY OTHERS
- TAXIWAY/APRON EDGE LIGHT (OUT OF SCOPE)
- FLOODLIGHT

NOTES
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0 10 20 30 40 50 m

KEYPLAN

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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 3031

PHASE: FD
STATE: Final

DRAFT	CHECK	APPROVED
DH	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL06-33031
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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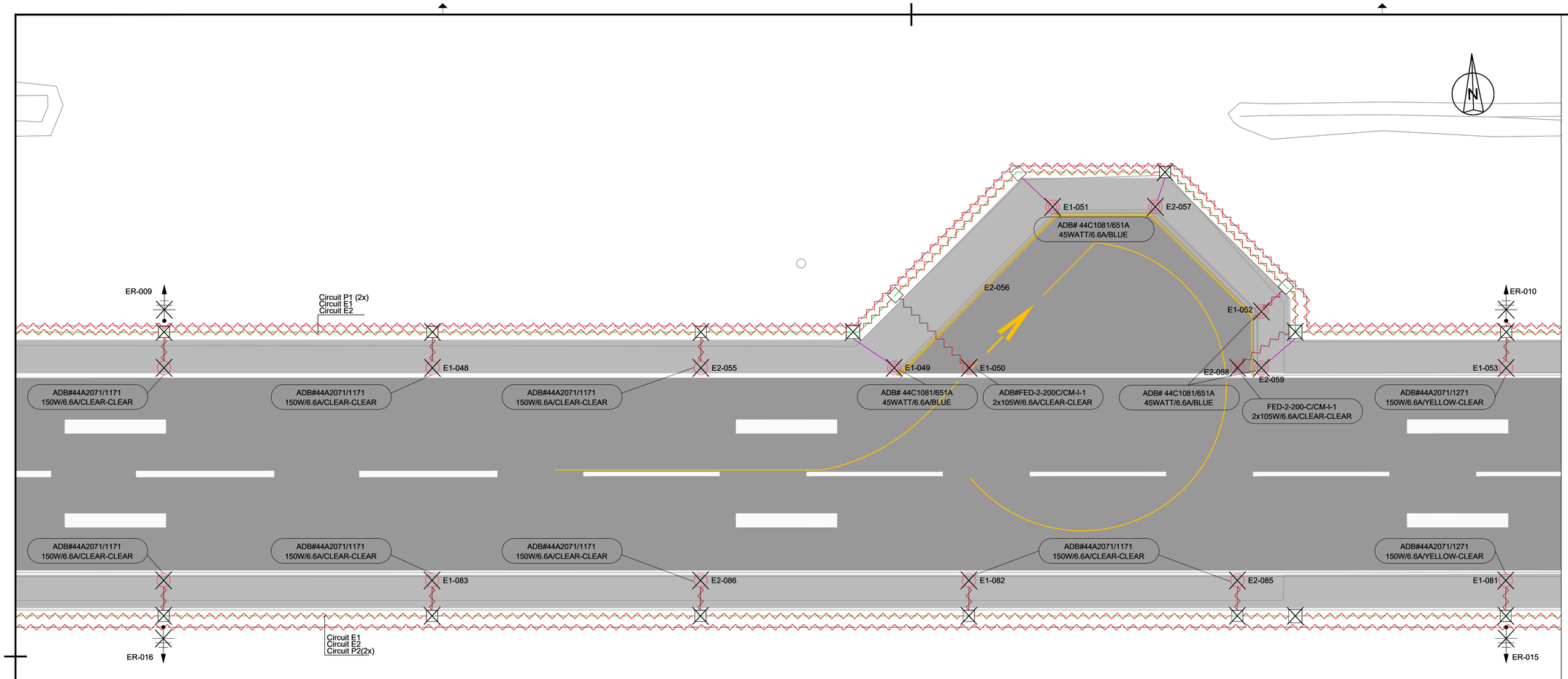

LEGEND:

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- PAPI TO BE REMOVED
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NOTES
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0 10 20 30 40 50 m

KEYPLAN

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PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 3032

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
DH	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL06-33032
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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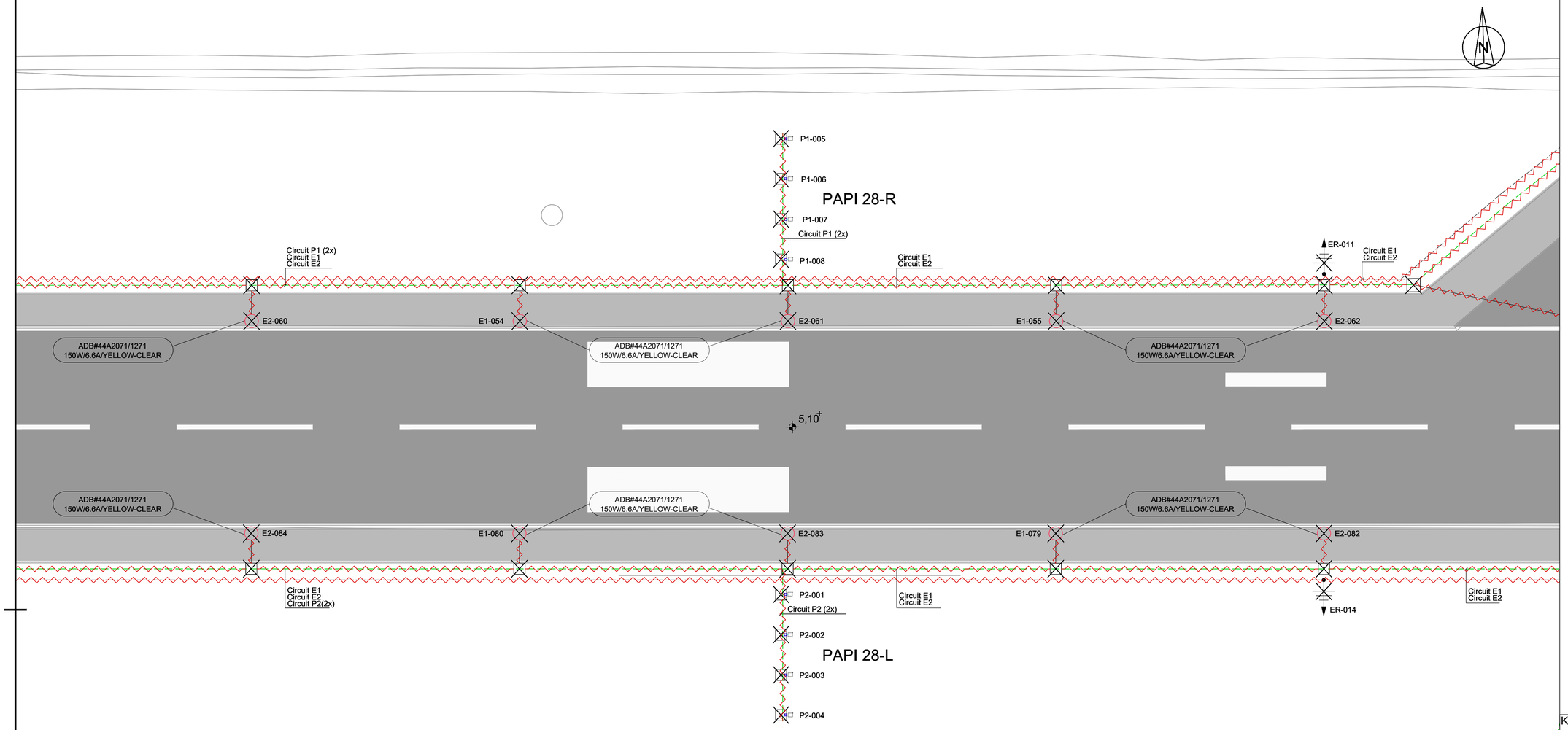

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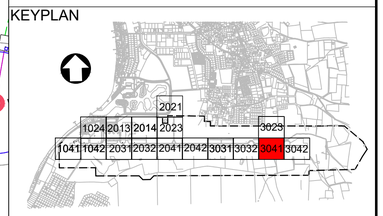
- FLOODLIGHT

NOTES

1. Existing primary cables to be removed by the Client.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
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Ministerie van Infrastructuur en Waterstaat

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www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 3041

PHASE: FD		STATE: Final
DRAFT DH	CHECK GJB	APPROVED HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL06-33041
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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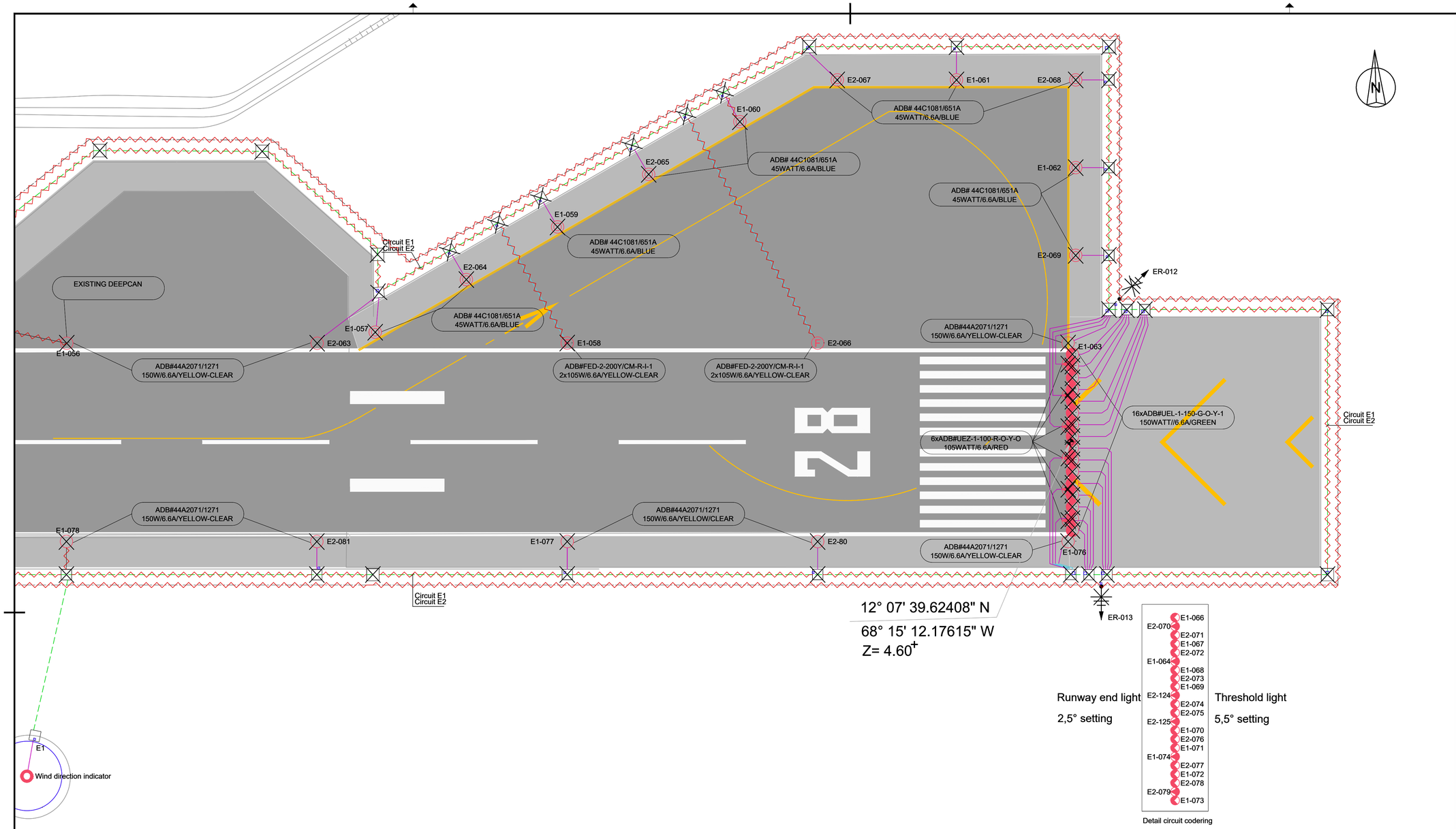

Runway end light
2,5° setting

Threshold light
5,5° setting

Detail circuit codering

LEGEND:

- FENCE
- FENCE TO BE REMOVED
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- FLOODLIGHT

NOTES
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0 10 20 30 40 50 m

KEYPLAN

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5	13-04-2023	Final Design for Tendering	HvW
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PROJECT:
Renovatie AGL Installatie Bonaire
International Airport

PROJECTNo: BI2286

Removal of Civil and Electrical items
Layout
Sector 3042

PHASE: FD		STATE: Final	
DRAFT DH	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL06-33042
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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Do Not Scale

LEGEND:

- FENCE
- NEW FENCE
- EARTHING POINT (MH #)
- 16 mm² BARE COPPER EARTHING CONDUCTOR
- AGL PIT (NO EARTHING INCLUDED)
- AGL PIT (EARTHING INCLUDED)
- WIND DIRECTION INDICATOR

Abbreviations:

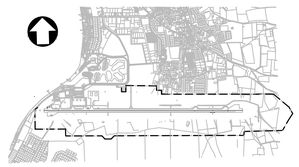
MH	-	Manhole (AGL pit)
WDI	-	Wind Direction Indicator

NOTES

1. Earth cable located 75 mm above primary cable.
2. All ground connections to ground rods, busses, panels, etc., must be made with pressure type solderless lugs and ground clamps. Clean all metal surfaces before making ground connections. Exothermic welds are the preferred method of connection between cables.
3. The resistance to ground of the counterpoise system, or at isolated locations, must not exceed 10 Ohms.
4. The exact location of earthing pits / grounding rods will be decided on site as per site and construction condition by keeping the ground electrodes at intervals of 150 m to 300 m.
5. All earthing rods to be copper and at least 3 m long.

0 100 200 300 400 500 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW
2	24-03-2022	Final Preliminary Design	HvW

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Ministerie van Infrastructuur en Waterstaat

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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire
International Airport

PROJECTNo: BI2286

Earthing
Layout
Overview

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
BA	GJB	HVW
DATE 04-03-2022	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL30-30001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

FILE INFO BI2286-NAC-AS-XX-DR-E-EL30-30001.dwg 13/4/2023 1:21 PM

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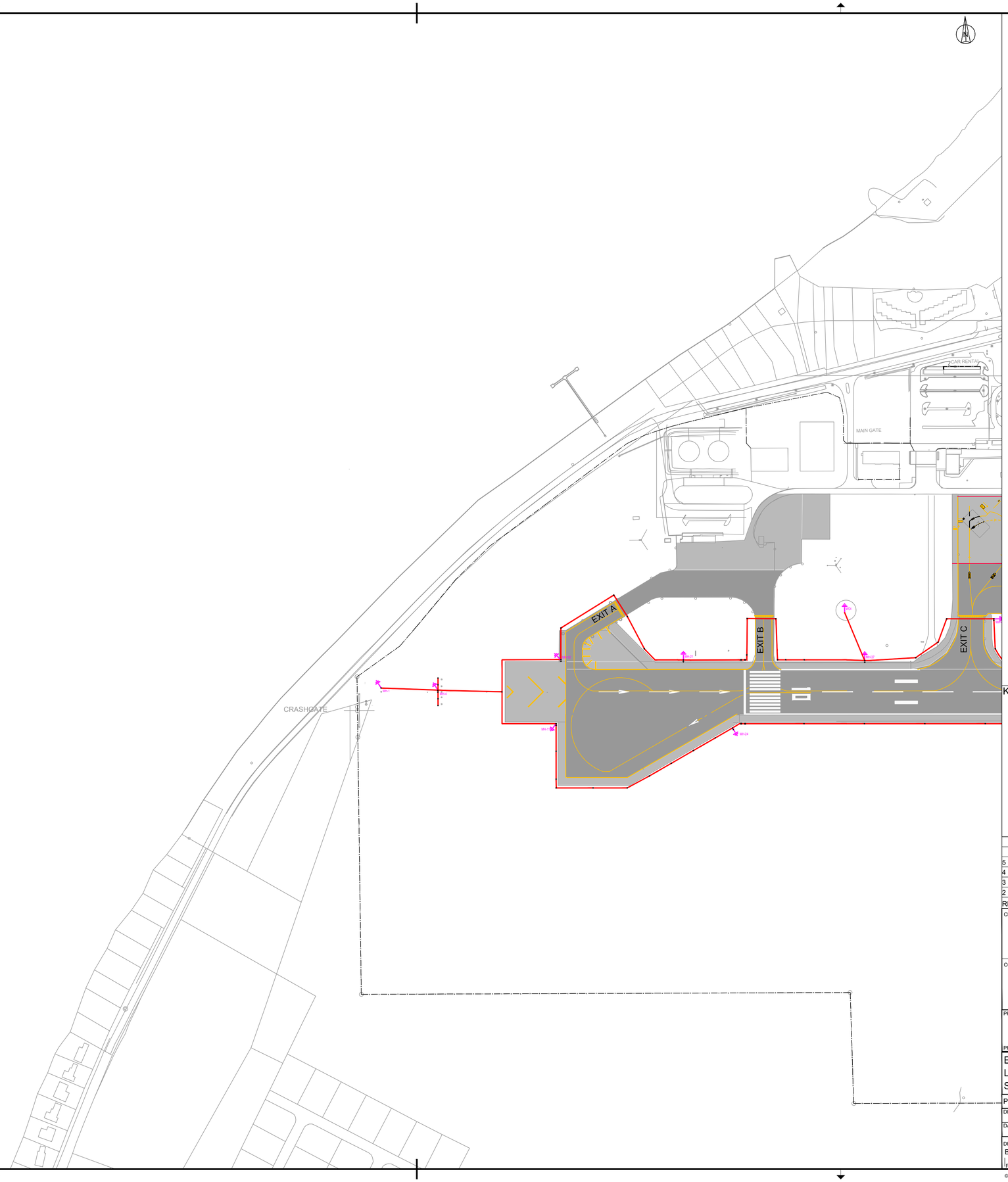

LEGEND:

- FENCE
- NEW FENCE
- EARTHING POINT (MH #)
- 16 mm^2 BARE COPPER EARTHING CONDUCTOR
- AGL PIT (NO EARTHING INCLUDED)
- AGL PIT (EARTHING INCLUDED)
- WIND DIRECTION INDICATOR

Abbreviations:

MH	-	Manhole (AGL pit)
WDI	-	Wind Direction Indicator

NOTES

1. Earth cable located 75 mm above primary cable.
2. All ground connections to ground rods, busses, panels, etc., must be made with pressure type solderless lugs and ground clamps. Clean all metal surfaces before making ground connections. Exothermic welds are the preferred method of connection between cables.
3. The resistance to ground of the counterpoise system, or at isolated locations, must not exceed 10 Ohms.
4. The exact location of earthing pits / grounding rods will be decided on site as per site and construction condition by keeping the ground electrodes at intervals of 150 m to 300 m.
5. All earthing rods to be copper and at least 3 m long.

0 50 100 150 200 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Earthing
Layout
Sector 2100

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
BA	GJB	HVW
DATE 04-03-2022	SCALE 1:2000 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL30-32100
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

Do Not Scale

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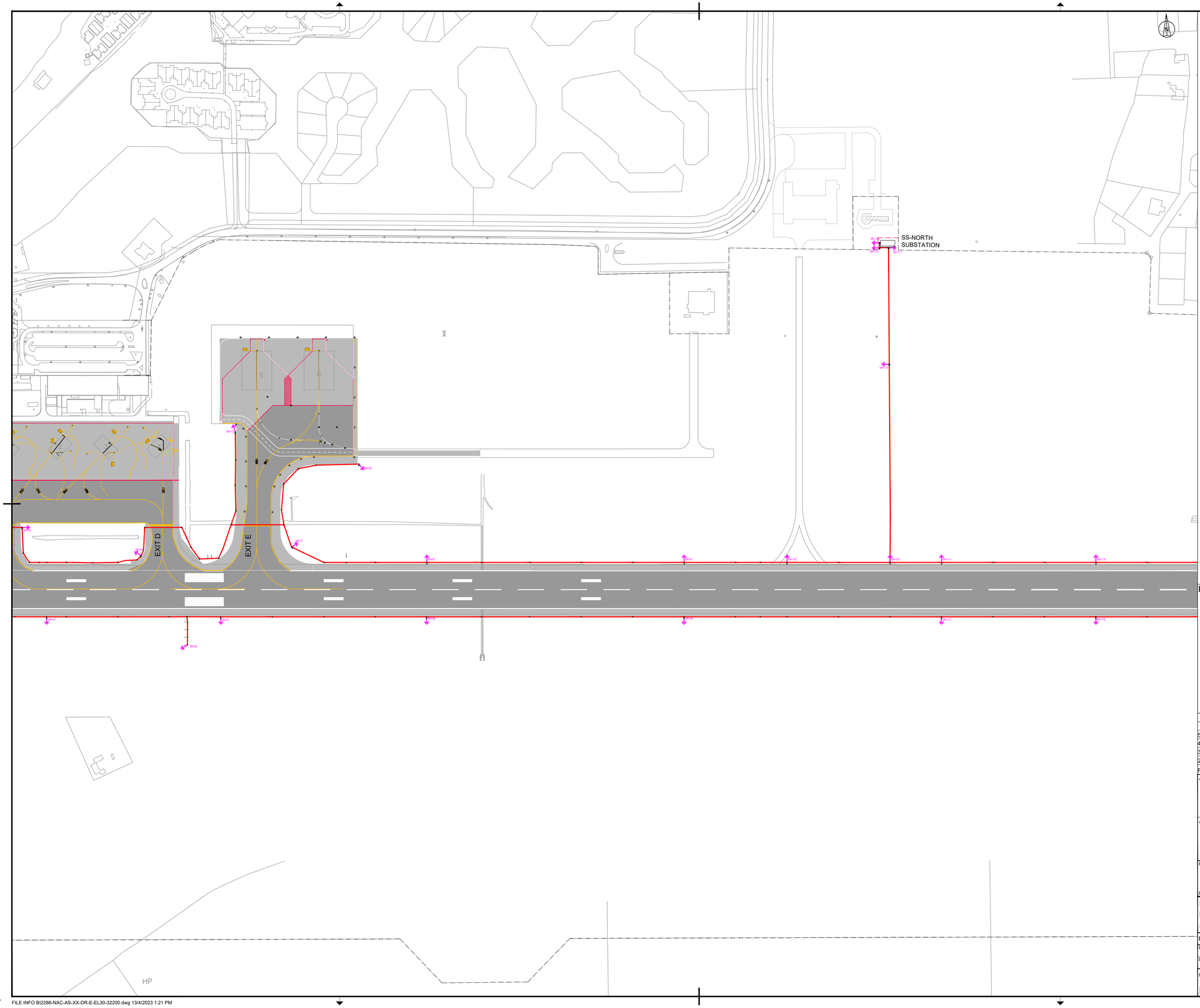

LEGEND:

- FENCE
- NEW FENCE
- EARTHING POINT (MH #)
- 16 mm² BARE COPPER EARTHING CONDUCTOR
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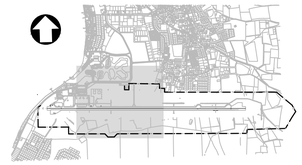
0 50 100 150 200 m

KEYPLAN



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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Earthing
Layout
Sector 2200

PHASE: FD | STATE: Final

DRAFT	BA	CHECK	GJB	APPROVED	HVW
DATE	04-03-2022	SCALE 1:2000 SHEET A1		CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL30-32200
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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Do Not Scale

LEGEND:

- FENCE
- NEW FENCE
- EARTHING POINT (MH #)
- 16 mm^2 BARE COPPER EARTHING CONDUCTOR
- AGL PIT (NO EARTHING INCLUDED)
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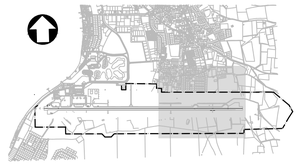
0 50 100 150 200 m

KEYPLAN



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Rijkswaterstaat
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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Earthing
Layout
Sector 2300

PHASE: FD		STATE: Final
DRAFT BA	CHECK GJB	APPROVED HVW
DATE 04-03-2022	SCALE 1:2000 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL30-32300
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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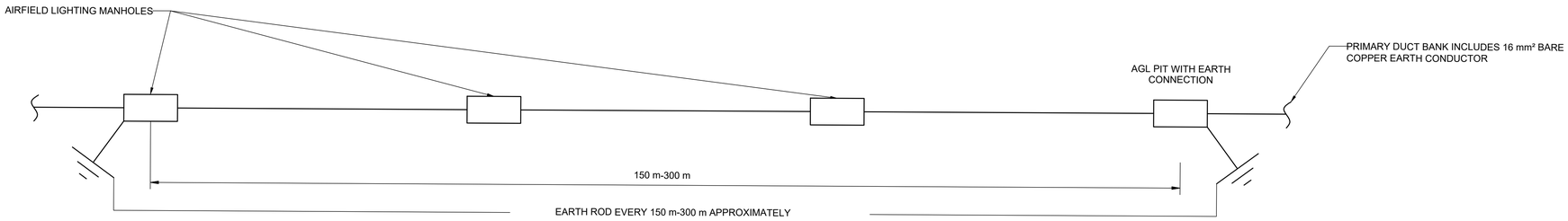
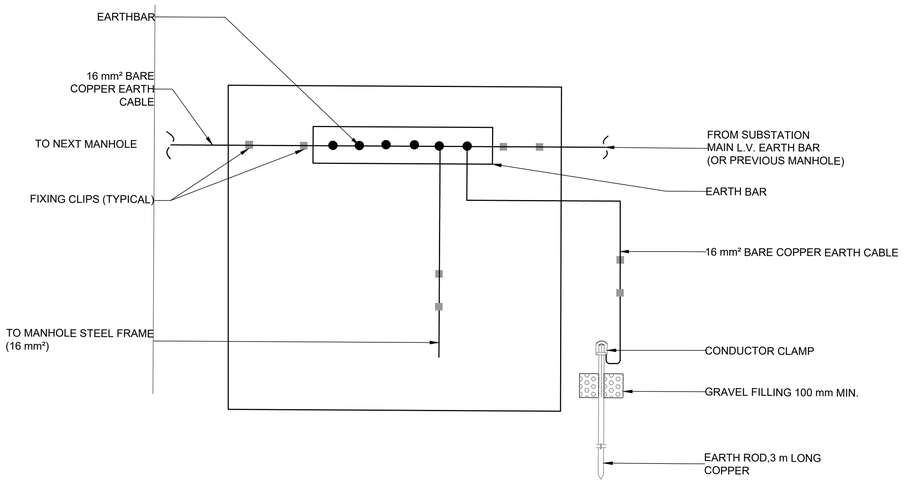
Do Not Scale



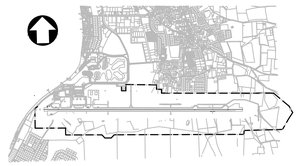


TYPICAL EARTHING SCHEMATIC DIAGRAM FOR AGL MANHOLE
N.T.S

LEGEND:

NOTES:
1. Earth cable located 75 mm above primary cable.
2. All ground connections to ground rods, busses, panels, etc., must be made with pressure type solderless lugs and ground clamps. Clean all metal surfaces before making ground connections. Exothermic welds are the preferred method of connection between cables.
3. The resistance to ground of the counterpoise system, or at isolated locations, must not exceed 10 Ohms.
4. The exact location of earthing pits / grounding rods will be decided on site as per site and construction condition by keeping the ground electrodes at intervals of 150 m to 300 m.
5. All earthing rods to be copper and at least 3 m long.

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Earthing
AGL Earthing
Details

PHASE: FD
STATE: Final

DRAFT	CHECK	APPROVED
BA	GJB	HVW
DATE 16-12-2022	SCALE N.T.S SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL30-70001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
- MH-No — TYPE 1 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 2 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 3 - NO EARTHING/INCLUDING EARTHING
- ELEVATED APPROACH LIGHT - UNI (WHITE)
- INSET APPROACH LIGHT - UNI (WHITE)
- PAPI - PRECISION APPROACH PATH INDICATORS
- ELEVATED RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- INSET RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- INSET COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B — PROPOSED RUNWAY EXIT SIGNS
- 28-10 B — PROPOSED MANDATORY SIGNS
- SIGN No. — SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

0 100 200 300 400 500 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW
2.1	16-09-2022	Concept Final Design (Work in Progress)	HvW
2	24-03-2022	Final Preliminary Design	HvW

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www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Overview

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-09-2022	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-30001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

FILE INFO BI2286-NAC-AS-XX-DR-E-EL40-30001.dwg 13/4/2023 1:22 PM

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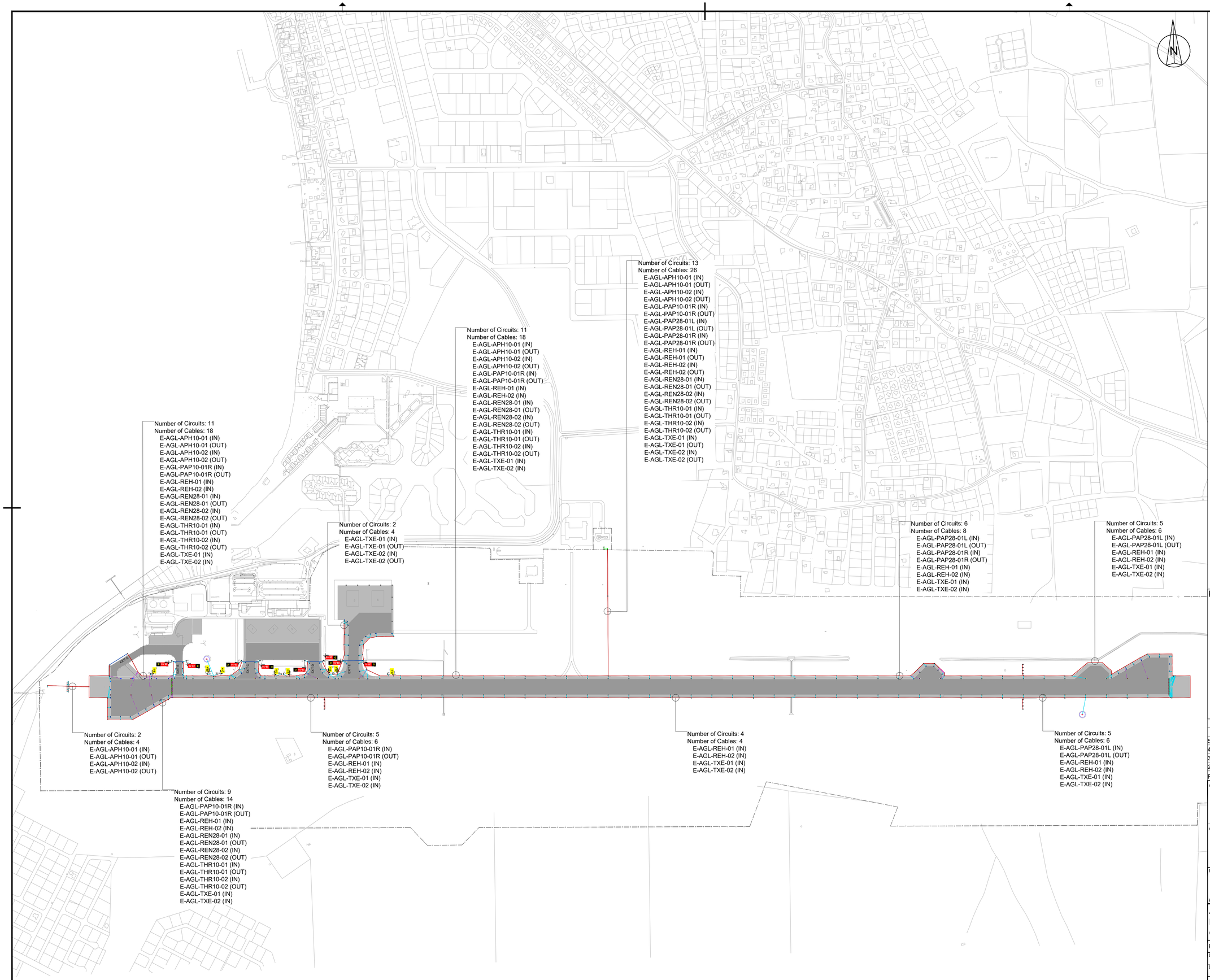

LEGEND:

General

- DIRECT BURIED PRIMARY CABLING
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.

0 50 100 150 200 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW
2	24-03-2022	Final Preliminary Design	HvW

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www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Primary Circuit Routes
Overview - Circuit Count

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 04-03-2022	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-30002

REVISION 5

PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

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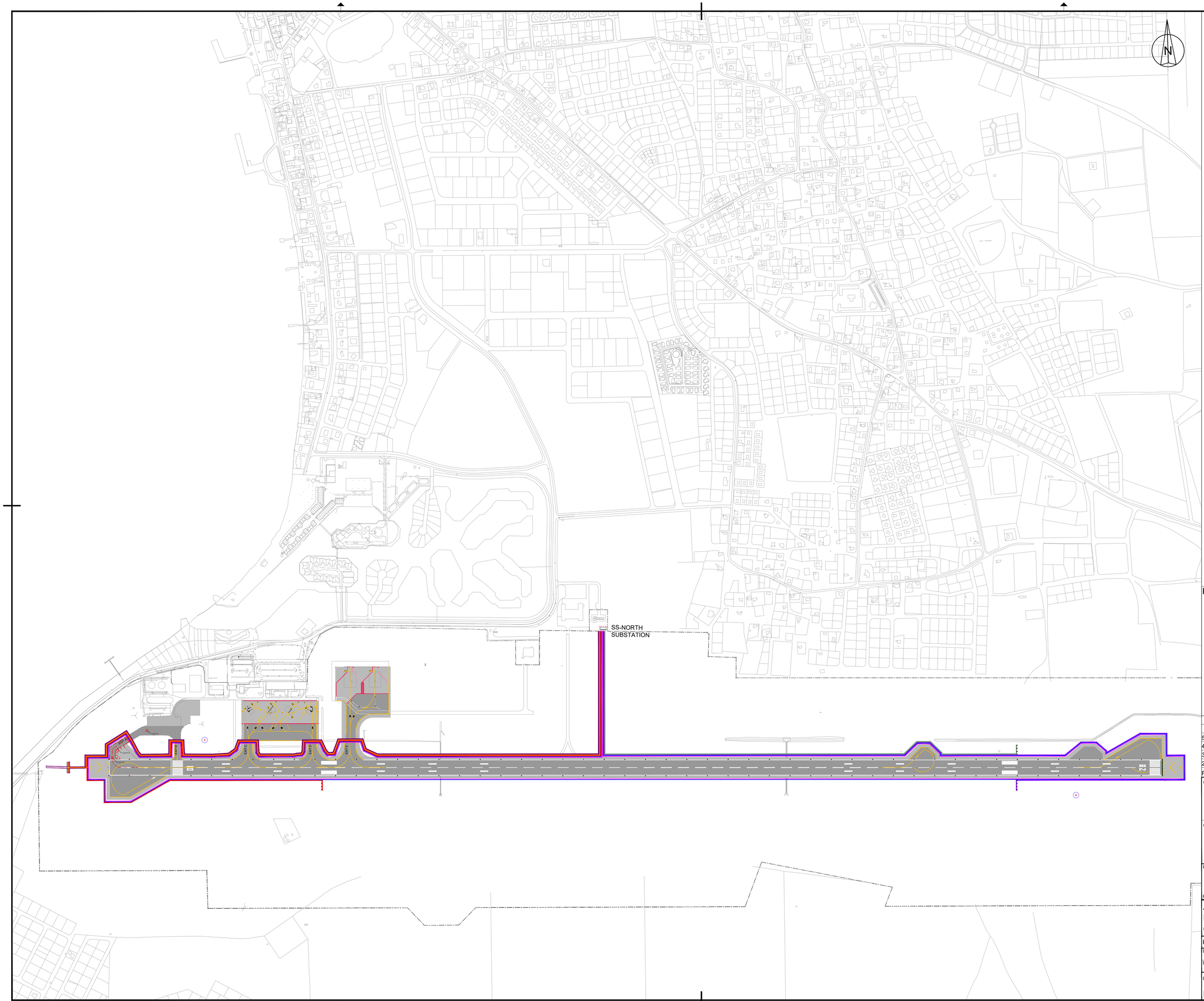

LEGEND:

EXISTING FENCE

NEW FENCE

PRIMARY CIRCUIT ROUTES - GROUP A

APH10-01

APH10-02

PAP10-01R

PAP28-01L

PAP28-01R

REH-01

REH-02

Abbreviations:
Circuits:

APH - Runway Approach Lights
PAP - Precision Approach Path Indicator (PAPI) Lights
REH - Runway Edge Lights

Substation:
SS-North

NOTES:

1. Primary Circuit Routes are split into to Group A and Group B to clearly indicate the routes on the legend.
   Group A to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30003 to
   BI2286-NAC-AS-XX-DR-E-EL40-30005.
   Group B circuit routes refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30006 to
   BI2286-NAC-AS-XX-DR-E-EL40-30008.
2. For AGL layouts refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-31041 to
   BI2286-NAC-AS-XX-DR-E-EL40-33042.
3. For Airfield Signage Schedule refer to drawing:
   BI2286-NAC-AS-XX-DR-E-EL45-70001

0 100 200 300 400 500 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW
2	24-03-2022	Final Preliminary Design	HvW

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www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Primary Circuit Routes - Group A
Overview

PHASE: FD | STATE: Final

DRAFT	LT	CHECK	GJB	APPROVED	HVW
DATE	04-03-2022	SCALE / SHEET	1:5000 / A1	CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-30003
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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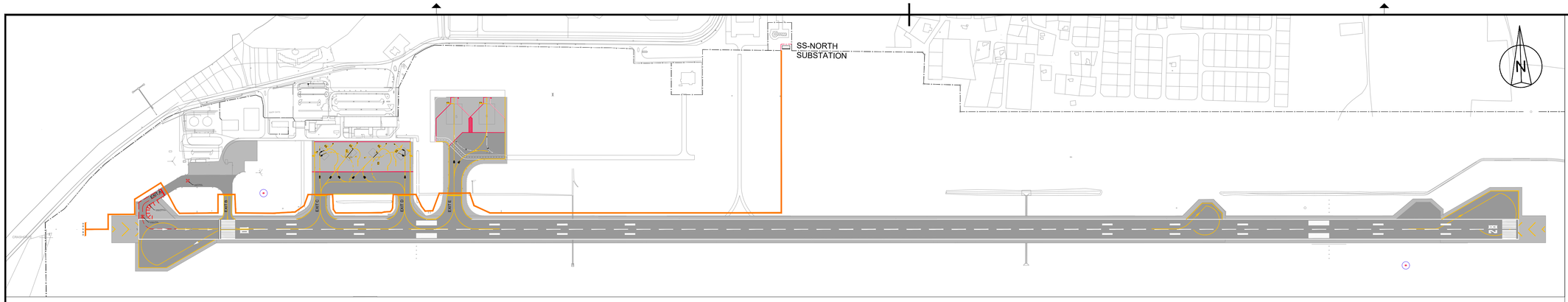
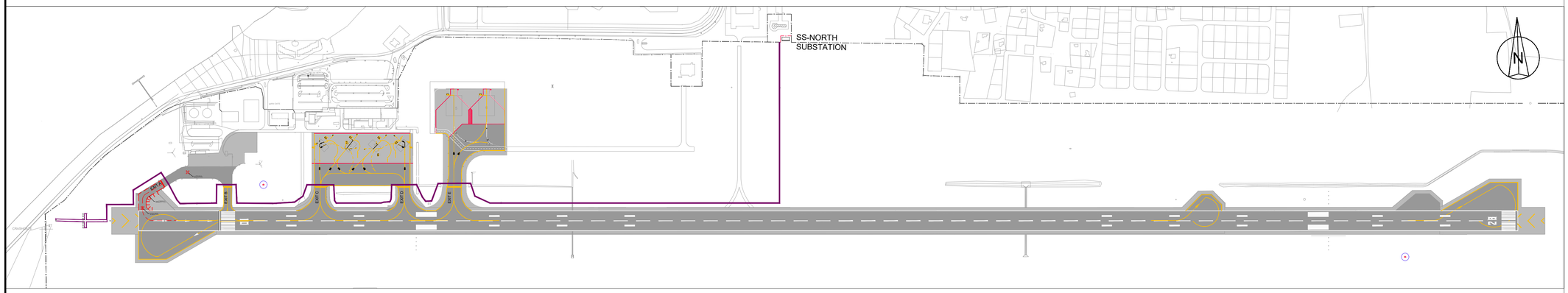
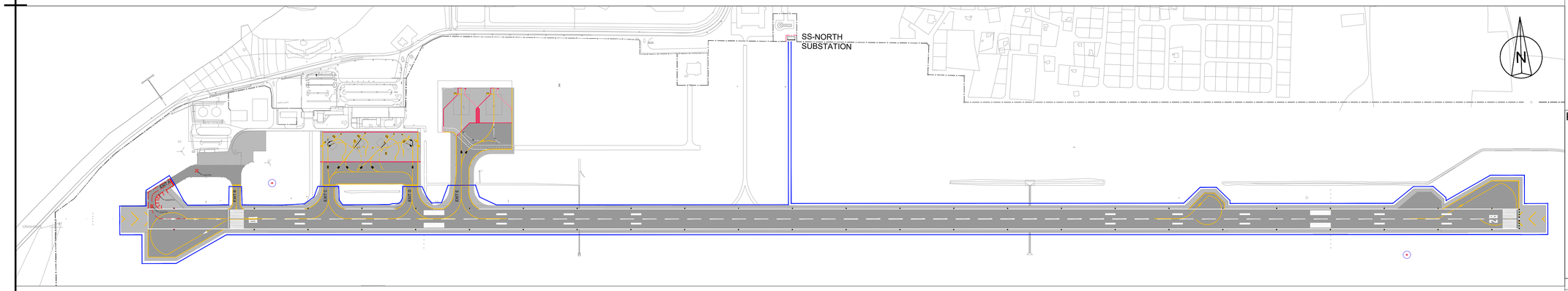


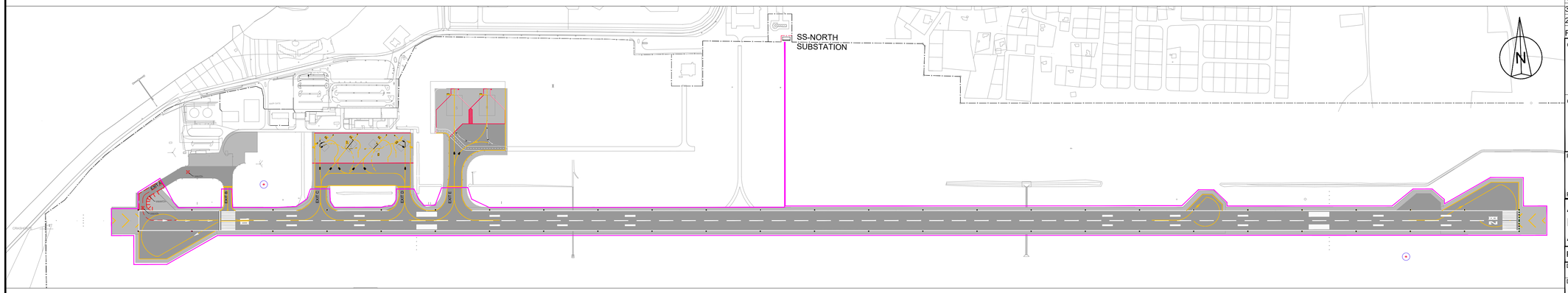
APH10-01 APPROACH LIGHTS



APH10-02 APPROACH LIGHTS



REH-01 RUNWAY EDGE LIGHTS



REH-02 RUNWAY EDGE LIGHTS

LEGEND:

- EXISTING FENCE
- NEW FENCE

PRIMARY CIRCUIT ROUTES - GROUP A

- APH10-01
- APH10-02
- PAP10-01R
- PAP28-01L
- PAP28-01R
- REH-01
- REH-02

Abbreviations:
Circuits:
APH - Runway Approach Lights
PAP - Precision Approach Path Indicator (PAPI) Lights
REH - Runway Edge Lights

Substation:
SS-North

NOTES:
1. Primary Circuit Routes are split into to Group A and Group B to clearly indicate the routes on the legend.
   Group A to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30003 to
   BI2286-NAC-AS-XX-DR-E-EL40-30005.
   Group B circuit routes refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30006 to
   BI2286-NAC-AS-XX-DR-E-EL40-30008.
2. For AGL layouts refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-31041 to
   BI2286-NAC-AS-XX-DR-E-EL40-33042.
3. For Airfield Signage Schedule refer to drawing:
   BI2286-NAC-AS-XX-DR-E-EL45-70001

0 100 200 300 400 500 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW
2	24-03-2022	Final Preliminary Design	HvW

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www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Primary Circuit Routes - Group A
Approach and Runway Edge Circuits

PHASE: FD | STATE: Final

DRAFT	LT	CHECK	GJB	APPROVED	HVW
DATE	04-03-2022	SCALE SHEET	1:5000 A1	CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-30004
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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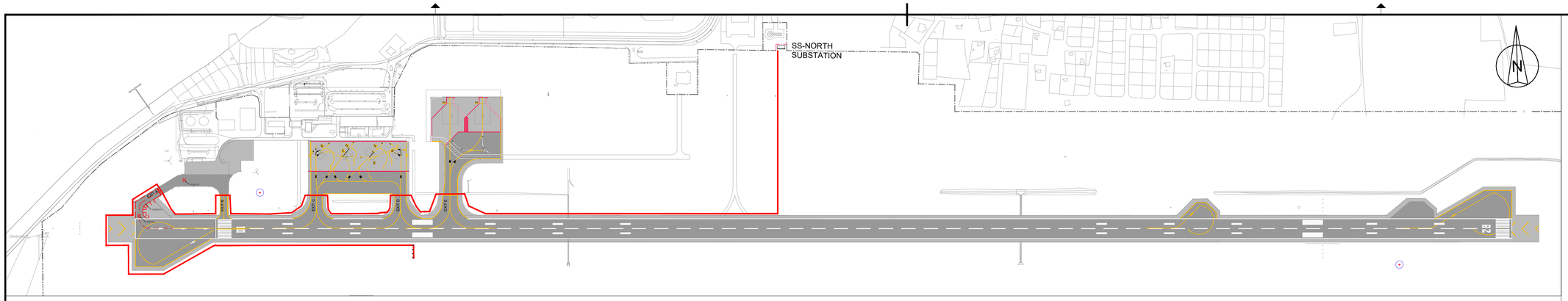
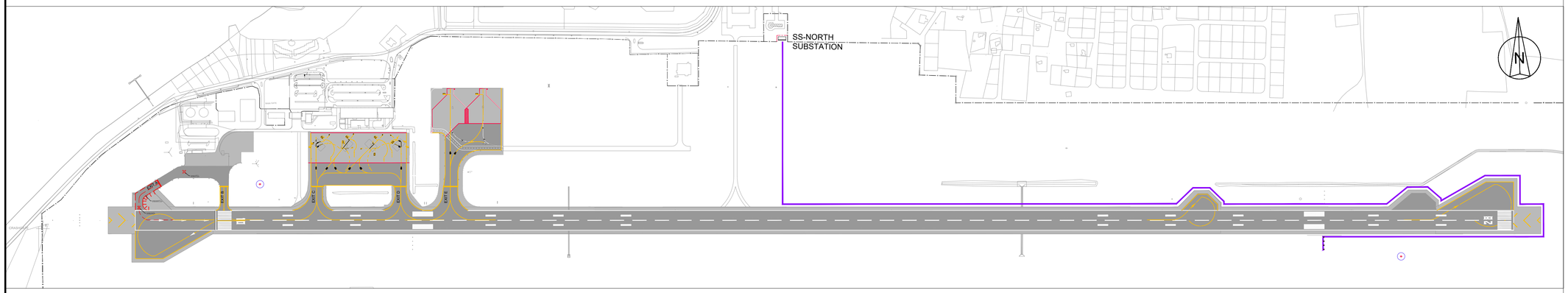
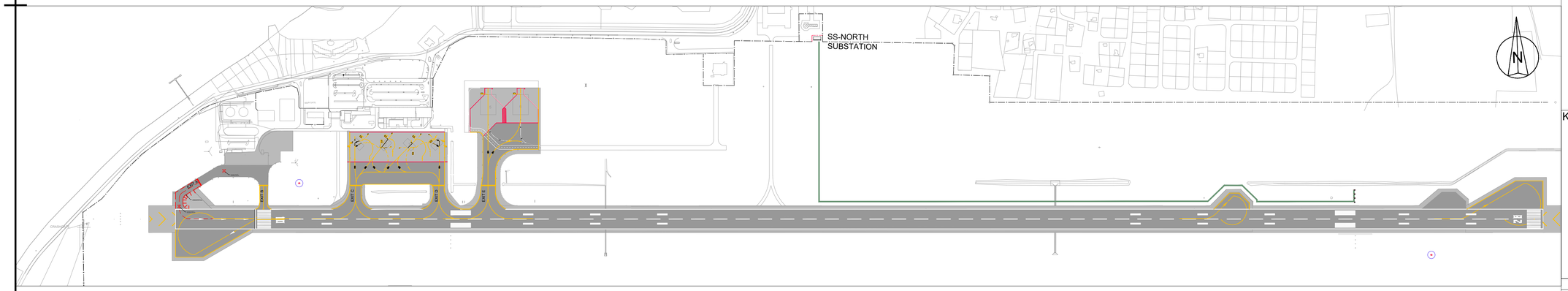


PAP10-01R PRECISION APPROACH PATH INDICATOR



PAP28-01L PRECISION APPROACH PATH INDICATOR



PAP28-01R PRECISION APPROACH PATH INDICATOR

LEGEND:

- EXISTING FENCE
- NEW FENCE

PRIMARY CIRCUIT ROUTES - GROUP A

- APH10-01
- APH10-02
- PAP10-01R
- PAP28-01L
- PAP28-01R
- REH-01
- REH-02

Abbreviations:
Circuits:
APH - Runway Approach Lights
PAP - Precision Approach Path Indicator (PAPI) Lights
REH - Runway Edge Lights

Substation:
SS-North

NOTES:
1. Primary Circuit Routes are split into to Group A and Group B to clearly indicate the routes on the legend.
   Group A to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30003 to
   BI2286-NAC-AS-XX-DR-E-EL40-30005.
   Group B circuit routes refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30006 to
   BI2286-NAC-AS-XX-DR-E-EL40-30008.
2. For AGL layouts refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-31041 to
   BI2286-NAC-AS-XX-DR-E-EL40-33042.
3. For Airfield Signage Schedule refer to drawing:
   BI2286-NAC-AS-XX-DR-E-EL45-70001

0 100 200 300 400 500 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW
2	24-03-2022	Final Preliminary Design	HvW

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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Primary Circuit Routes - Group A
PAPI Circuits

PHASE: FD		STATE: Final	
DRAFT LT	CHECK GJB	APPROVED HVW	
DATE 04-03-2022	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-30005
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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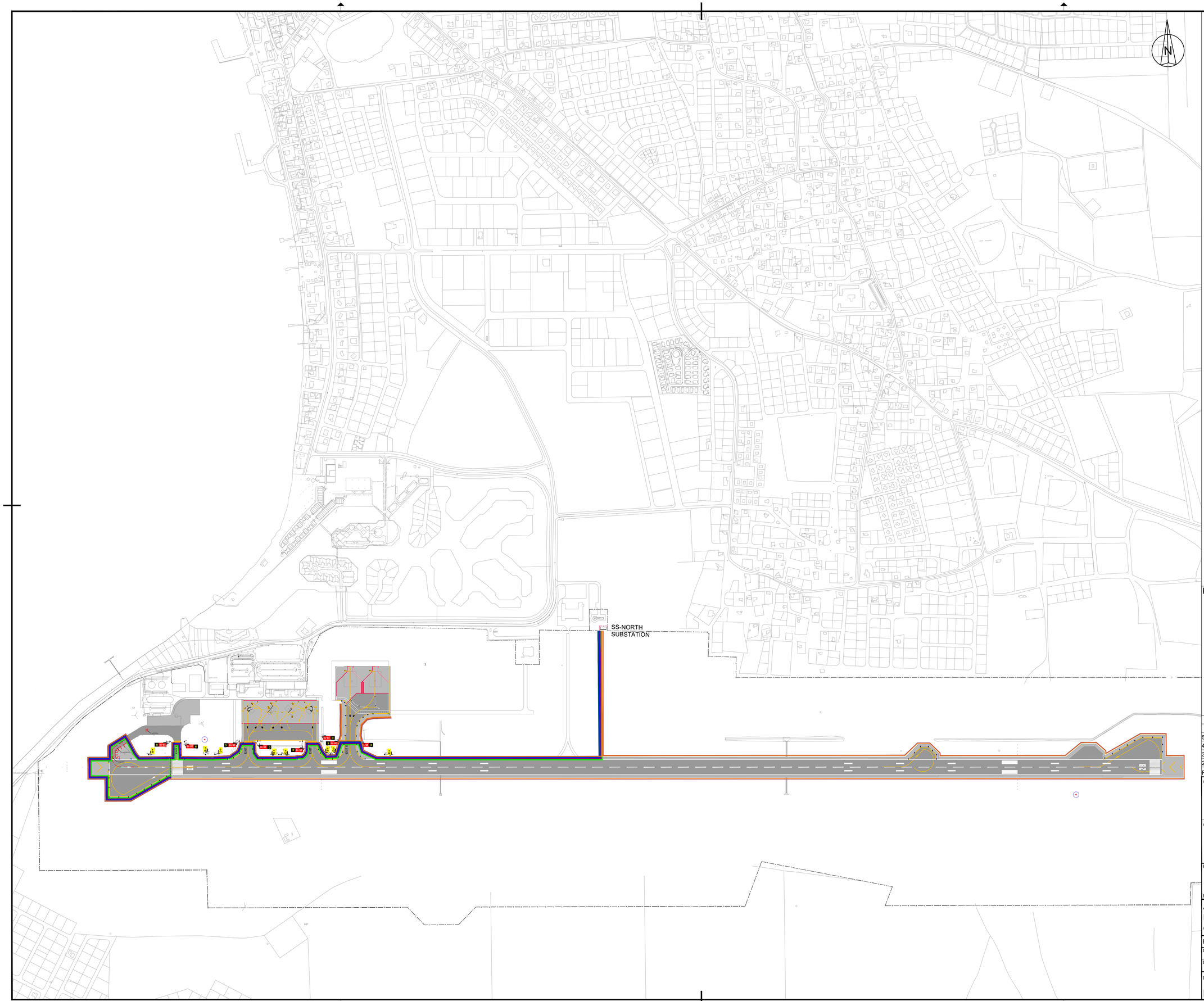

LEGEND:

EXISTING FENCE

NEW FENCE

PRIMARY CIRCUIT ROUTES - GROUP B

REN28-01

REN28-02

TXE-01

TXE-02

THR10-01

THR10-02

Abbreviations:
Circuits:
REN - Runway End Lights
THR - Runway Threshold Lights
TXE - Taxiway Edge Lights/Signage

Substation:
SS-North

NOTES:
1. Primary Circuit Routes are split into to Group A and Group B to clearly indicate the routes on the legend.
Group A to drawings:
BI2286-NAC-AS-XX-DR-E-EL40-30003 to
BI2286-NAC-AS-XX-DR-E-EL40-30005.
Group B circuit routes refer to drawings:
BI2286-NAC-AS-XX-DR-E-EL40-30006 to
BI2286-NAC-AS-XX-DR-E-EL40-30008.
2. For AGL layouts refer to drawings:
BI2286-NAC-AS-XX-DR-E-EL40-31041 to
BI2286-NAC-AS-XX-DR-E-EL40-33042.
3. For Airfield Signage Schedule refer to drawing:
BI2286-NAC-AS-XX-DR-E-EL45-70001

0 100 200 300 400 500 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW
2	24-03-2022	Final Preliminary Design	HvW

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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Primary Circuit Routes - Group B
Overview

PHASE: FD | STATE: Final

DRAFT	LT	CHECK	GJB	APPROVED	HVW
DATE	04-03-2022	SCALE	1:5000	CONTRACT NO.:	31096821.0017
		SHEET	A1		

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-30006
[PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ]

REVISION 5

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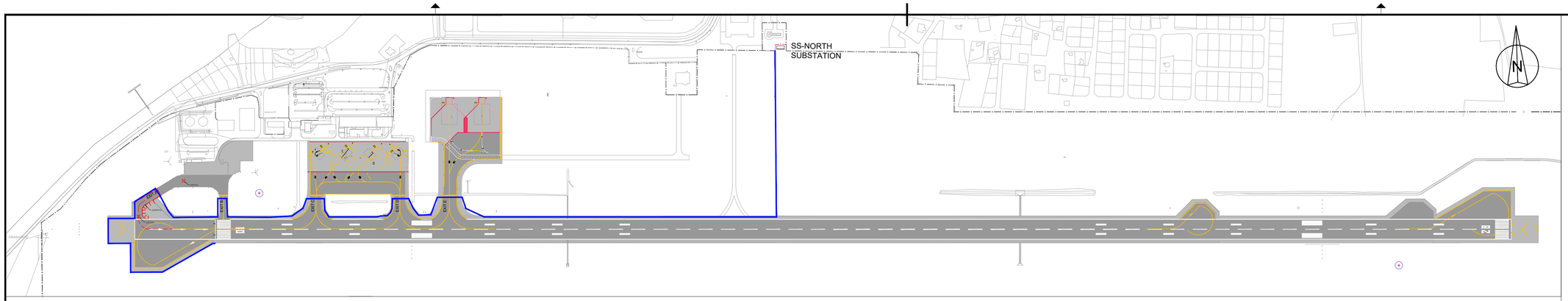
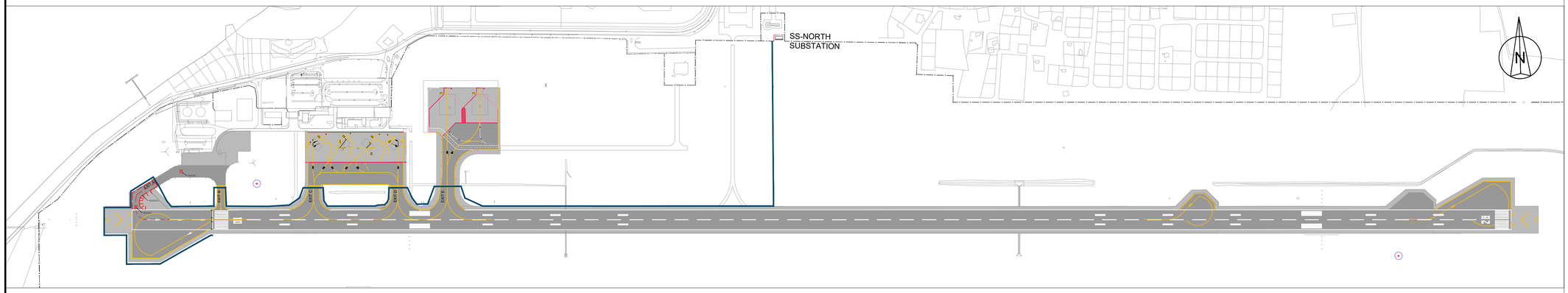
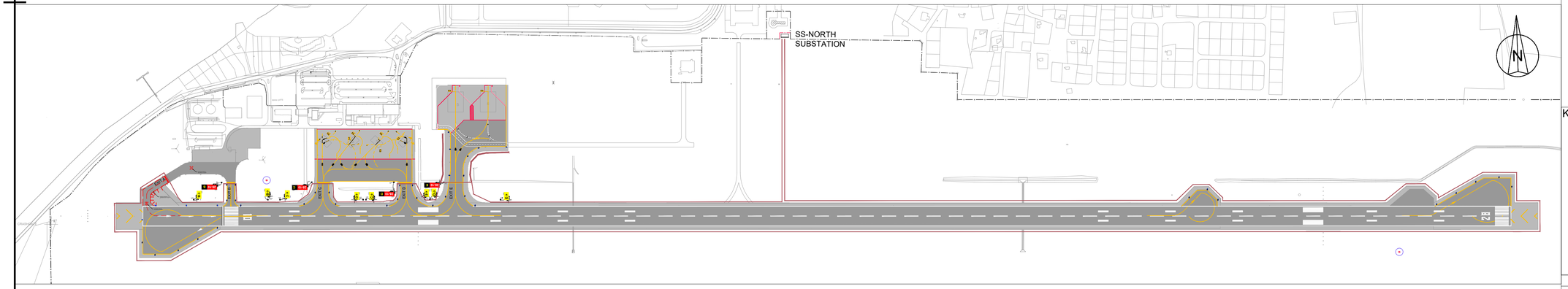
Do Not Scale



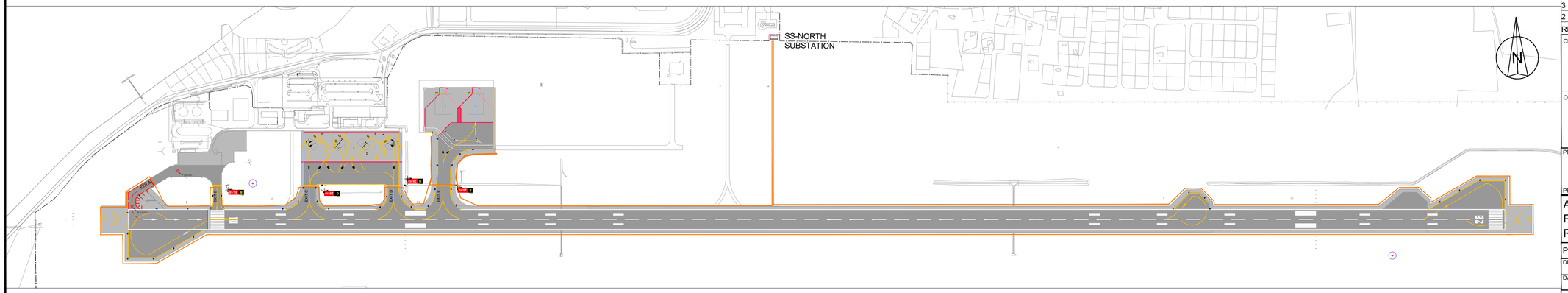
REN28-01 RUNWAY END LIGHTS



REN28-02 RUNWAY END LIGHTS



TXE-01 TAXIWAY EDGE LIGHTS



TXE-02 TAXIWAY EDGE LIGHTS

LEGEND:

- EXISTING FENCE
- NEW FENCE

PRIMARY CIRCUIT ROUTES - GROUP B

- REN28-01
- REN28-02
- TXE-01
- TXE-02
- THR10-01
- THR10-02

Abbreviations:
Circuits:
REN - Runway End Lights
THR - Runway Threshold Lights
TXE - Taxiway Edge Lights/Signage

Substation:
SS-North

NOTES:
1. Primary Circuit Routes are split into to Group A and Group B to clearly indicate the routes on the legend.
   Group A to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30003 to
   BI2286-NAC-AS-XX-DR-E-EL40-30005.
   Group B circuit routes refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30006 to
   BI2286-NAC-AS-XX-DR-E-EL40-30008.
2. For AGL layouts refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-31041 to
   BI2286-NAC-AS-XX-DR-E-EL40-33042.
3. For Airfield Signage Schedule refer to drawing:
   BI2286-NAC-AS-XX-DR-E-EL45-70001

0 100 200 300 400 500 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW
2	24-03-2022	Final Preliminary Design	HvW

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Ministerie van Infrastructuur en Waterstaat

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SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire
International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Primary Circuit Routes - Group B
Runway End and Taxiway Edge Circuits

PHASE: FD
STATE: Final

DRAFT	CHECK	APPROVED
LT	GJB	HVW
DATE 04-03-2022	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-30007
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION
5

FILE INFO BI2286-NAC-AS-XX-DR-E-EL40-30007.dwg 13/4/2023 1:24 PM

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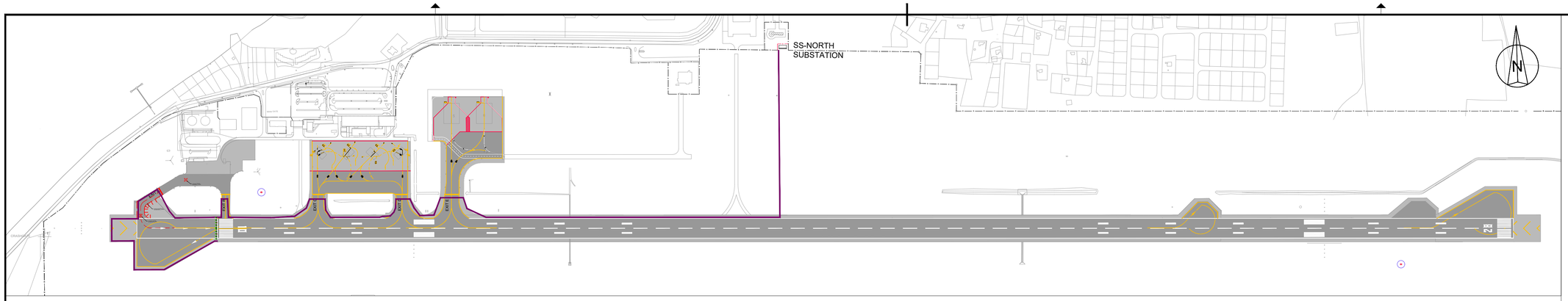
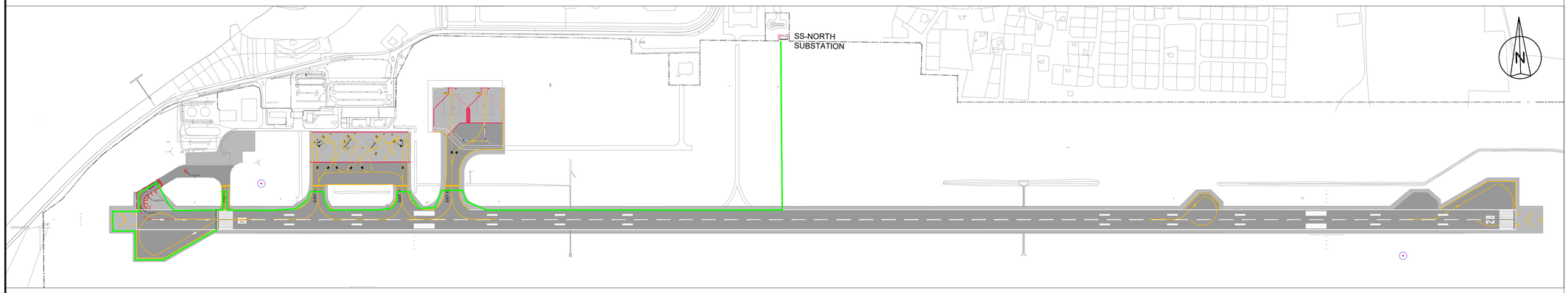
Do Not Scale



THR10-01 RUNWAY THRESHOLD LIGHTS



THR10-02 RUNWAY THRESHOLD LIGHTS

LEGEND:

- EXISTING FENCE
- NEW FENCE

PRIMARY CIRCUIT ROUTES - GROUP B

- REN28-01
- REN28-02
- TXE-01
- TXE-02
- THR10-01
- THR10-02

Abbreviations:
Circuits:
REN - Runway End Lights
THR - Runway Threshold Lights
TXE - Taxiway Edge Lights/Signage

Substation:
SS-North

NOTES:
1. Primary Circuit Routes are split into to Group A and Group B to clearly indicate the routes on the legend.
   Group A to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30003 to
   BI2286-NAC-AS-XX-DR-E-EL40-30005.
   Group B circuit routes refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-30006 to
   BI2286-NAC-AS-XX-DR-E-EL40-30008.
2. For AGL layouts refer to drawings:
   BI2286-NAC-AS-XX-DR-E-EL40-31041 to
   BI2286-NAC-AS-XX-DR-E-EL40-33042.
3. For Airfield Signage Schedule refer to drawing:
   BI2286-NAC-AS-XX-DR-E-EL45-70001

0 100 200 300 400 500 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW
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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Primary Circuit Routes - Group B
Threshold Circuits

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
LT	GJB	HVW
DATE 04-03-2022	SCALE 1:5000 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-30008
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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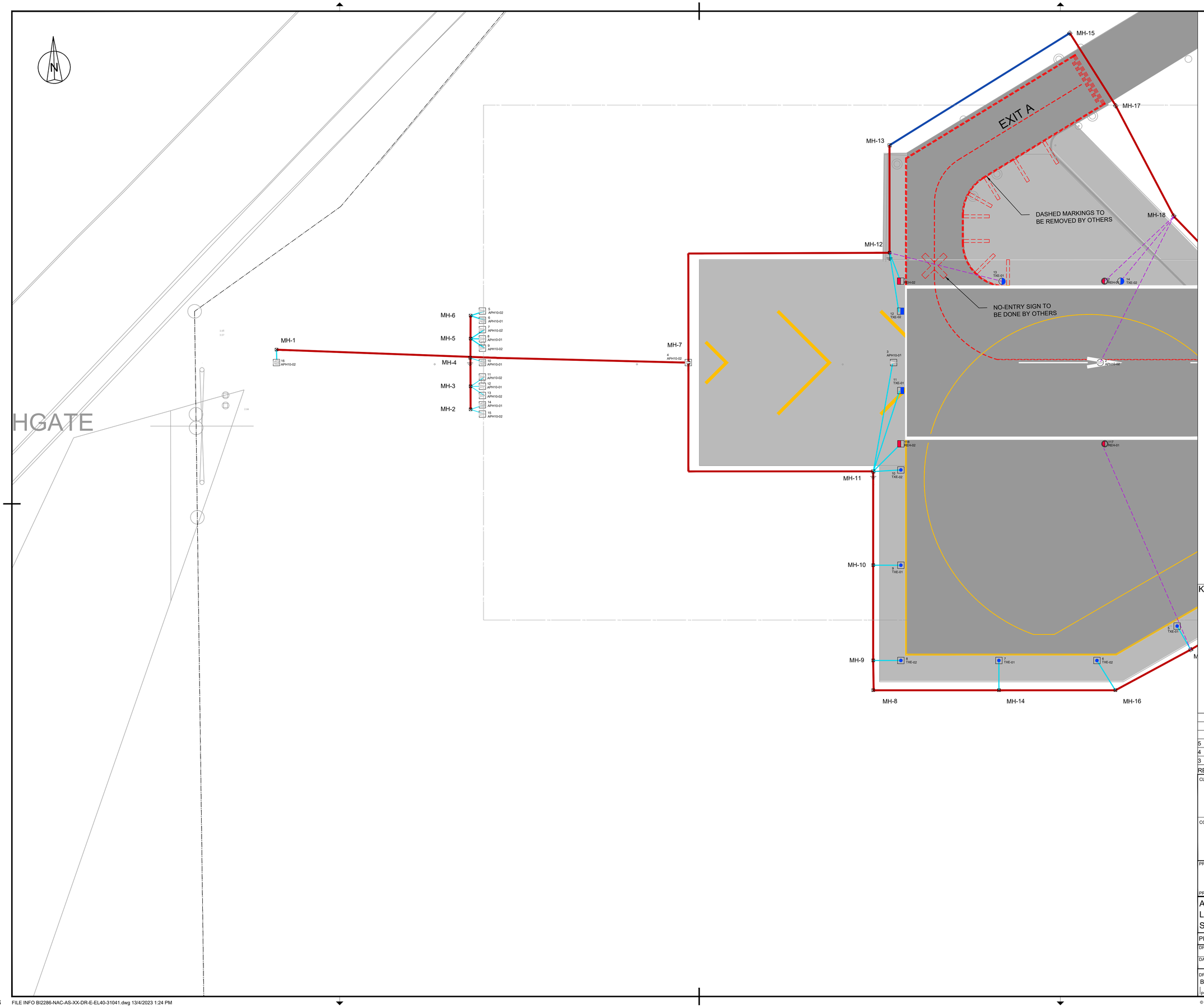
Do Not Scale



LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
- MH-No — TYPE 1 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 2 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 3 - NO EARTHING/INCLUDING EARTHING
- ELEVATED APPROACH LIGHT - UNI (WHITE)
- INSET APPROACH LIGHT - UNI (WHITE)
- PAPI - PRECISION APPROACH PATH INDICATORS
- ELEVATED RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- INSET RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- INSET COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B — PROPOSED RUNWAY EXIT SIGNS
- 28-10 B — PROPOSED MANDATORY SIGNS
- SIGN No. — SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

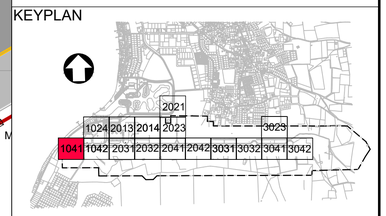
SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 1041

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
BA	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-31041
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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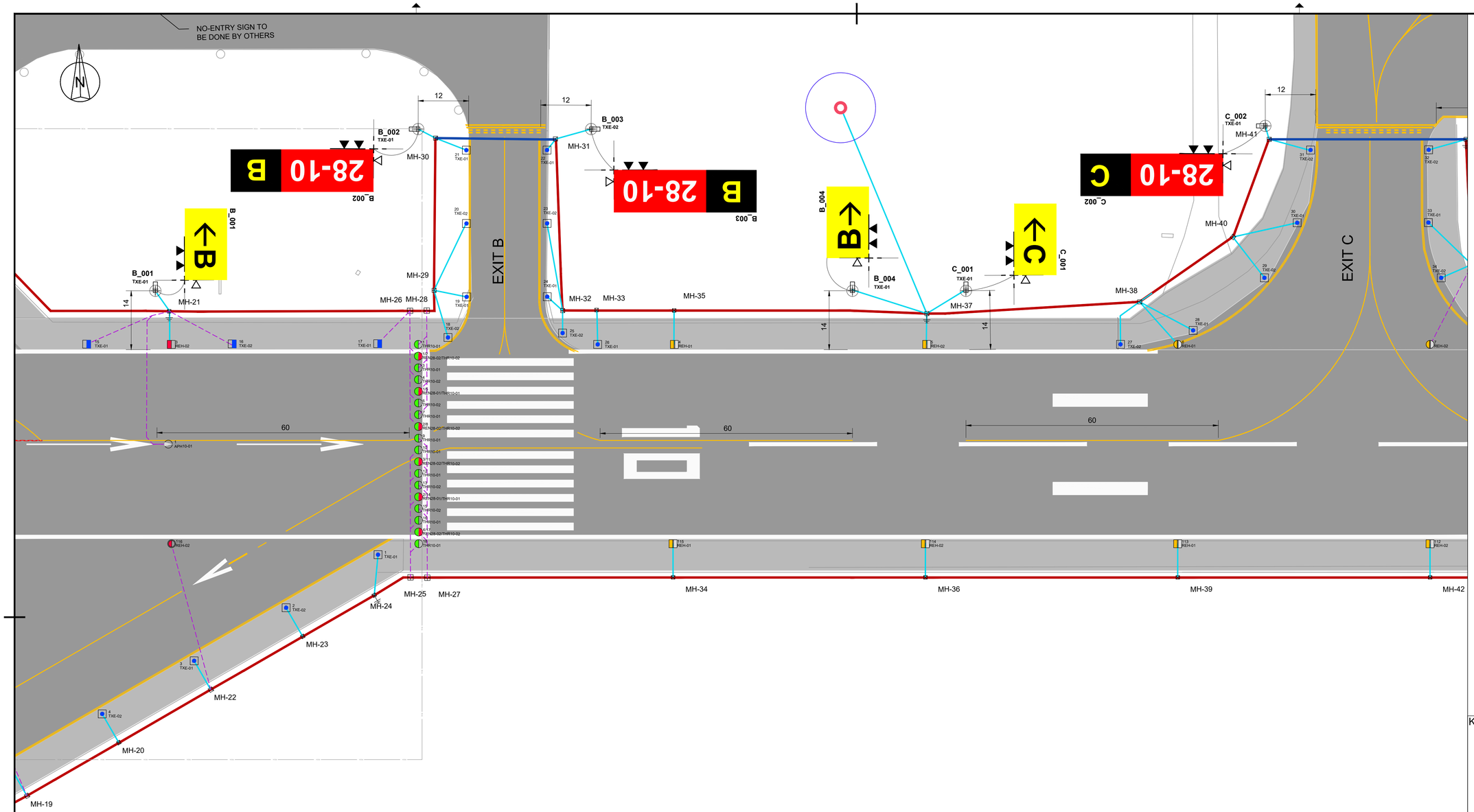

LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
- MH-No TYPE 1 - NO EARTHING/INCLUDING EARTHING
- MH-No TYPE 2 - NO EARTHING/INCLUDING EARTHING
- MH-No TYPE 3 - NO EARTHING/INCLUDING EARTHING
- ELEVATED APPROACH LIGHT - UNI (WHITE)
- INSET APPROACH LIGHT - UNI (WHITE)
- PAPI - PRECISION APPROACH PATH INDICATORS
- ELEVATED RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- INSET RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- INSET COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B PROPOSED RUNWAY EXIT SIGNS
- 28-10 B PROPOSED MANDATORY SIGNS
- SIGN No. SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 1042

PHASE: FD		STATE: Final
DRAFT BA	CHECK GJB	APPROVED HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-31042
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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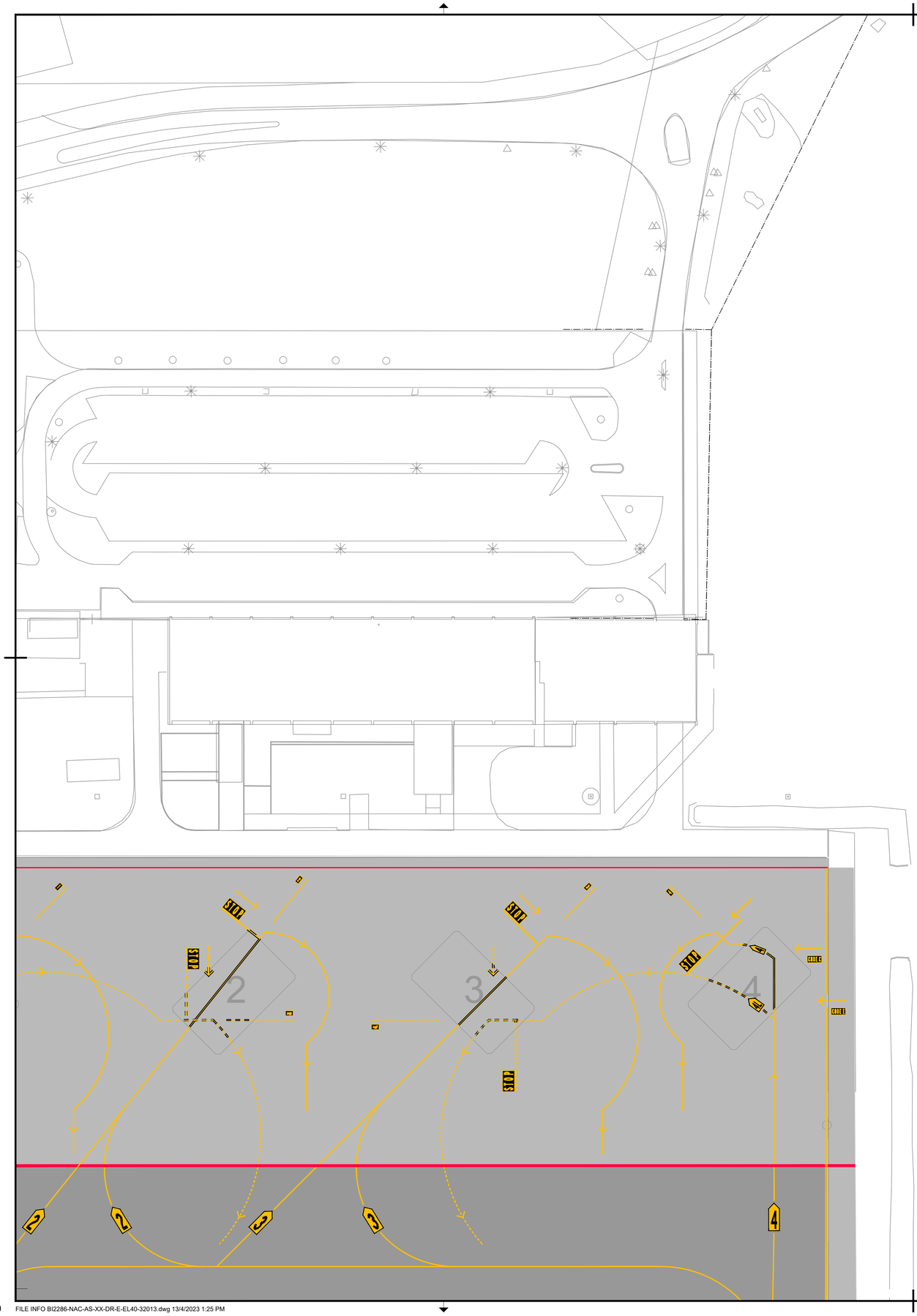
Do Not Scale



LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
- MH-No — TYPE 1 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 2 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 3 - NO EARTHING/INCLUDING EARTHING
- ELEVATED APPROACH LIGHT - UNI (WHITE)
- INSET APPROACH LIGHT - UNI (WHITE)
- PAPI - PRECISION APPROACH PATH INDICATORS
- ELEVATED RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- INSET RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- INSET COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B — PROPOSED RUNWAY EXIT SIGNS
- 28-10 B — PROPOSED MANDATORY SIGNS
- SIGN No. — SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
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THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

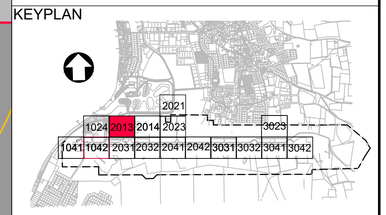
SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 2013

PHASE: FD		STATE: Final
DRAFT BA	CHECK GJB	APPROVED HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-32013
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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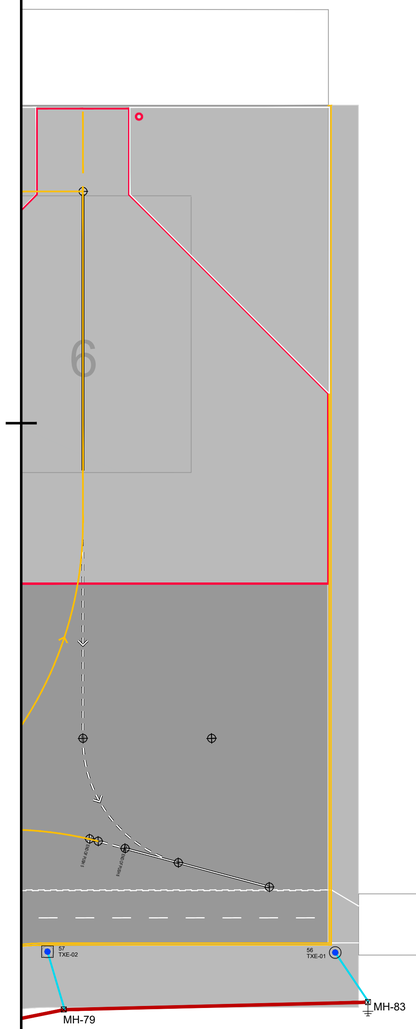
Do Not Scale



LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
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- MH-No — TYPE 2 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 3 - NO EARTHING/INCLUDING EARTHING
- ELEVATED APPROACH LIGHT - UNI (WHITE)
- INSET APPROACH LIGHT - UNI (WHITE)
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- ELEVATED RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- INSET RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- INSET COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B — PROPOSED RUNWAY EXIT SIGNS
- 28-10 B — PROPOSED MANDATORY SIGNS
- SIGN No. — SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

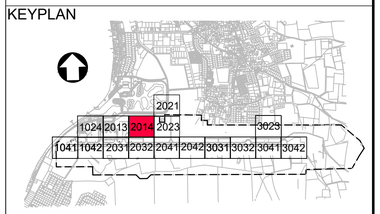
SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN



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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 2014

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-32014
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

Do Not Scale

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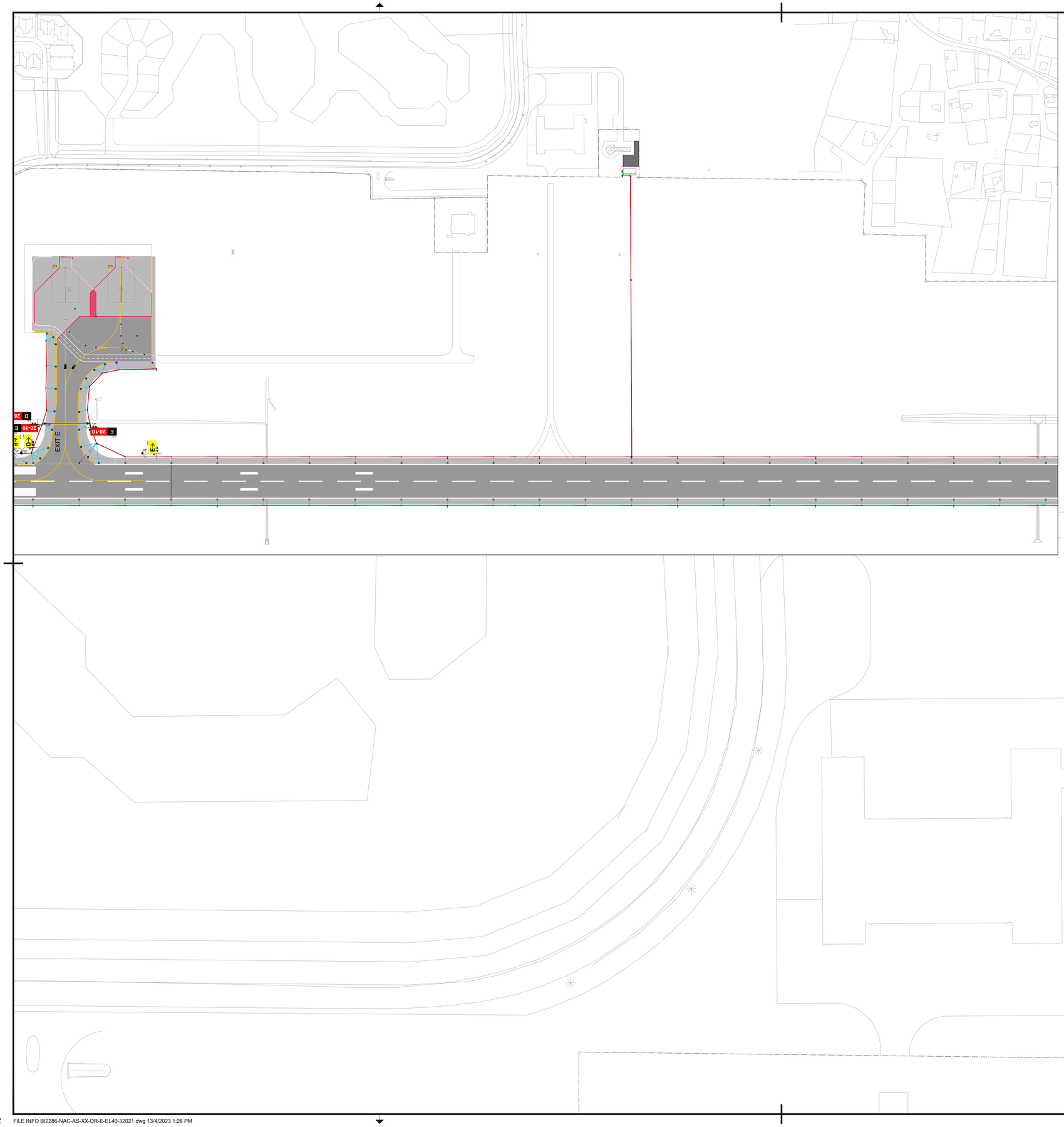


LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
- MH-No — TYPE 1 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 2 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 3 - NO EARTHING/INCLUDING EARTHING
- ELEVATED APPROACH LIGHT - UNI (WHITE)
- INSET APPROACH LIGHT - UNI (WHITE)
- PAPI - PRECISION APPROACH PATH INDICATORS
- ELEVATED RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- INSET RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- INSET COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B — PROPOSED RUNWAY EXIT SIGNS
- 28-10 B — PROPOSED MANDATORY SIGNS
- SIGN No. — SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

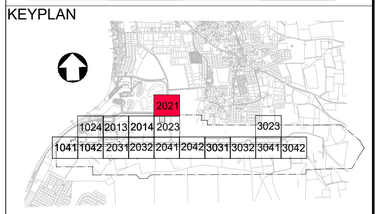
SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m
0 50 100 150 200 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

CONSULTANT

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SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 2021

PHASE: FD | STATE: Final

DRAFT	BA	CHECK	GJB	APPROVED	HVW
DATE	16-12-2022	SCALE 1:500 SHEET A1		CONTRACT NO.:	31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-32021
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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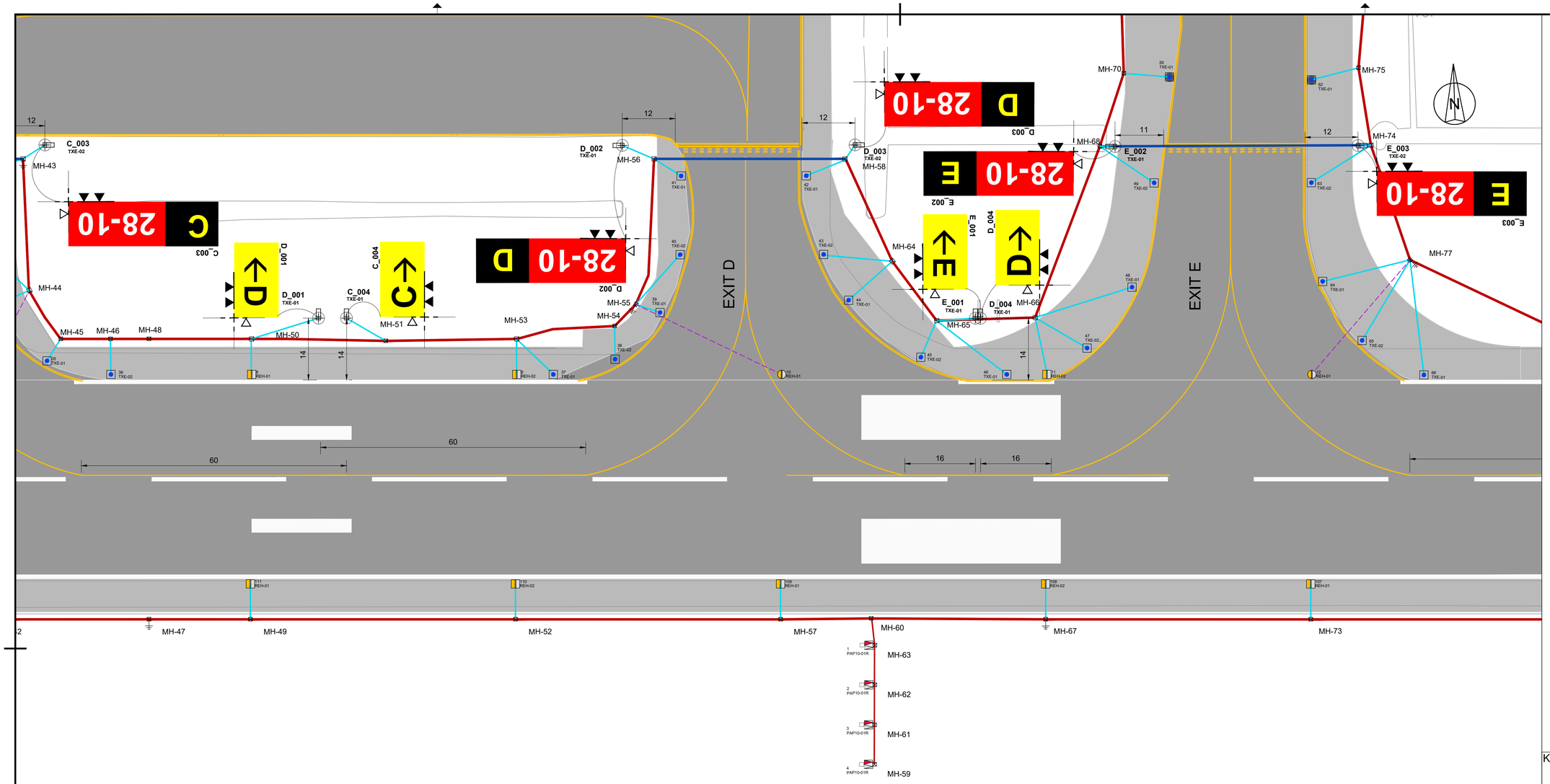
Do Not Scale



LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
- MH-No TYPE 1 - NO EARTHING/INCLUDING EARTHING
- MH-No TYPE 2 - NO EARTHING/INCLUDING EARTHING
- MH-No TYPE 3 - NO EARTHING/INCLUDING EARTHING
- ELEVATED APPROACH LIGHT - UNI (WHITE)
- INSET APPROACH LIGHT - UNI (WHITE)
- PAPI - PRECISION APPROACH PATH INDICATORS
- ELEVATED RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- INSET RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- INSET COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B PROPOSED RUNWAY EXIT SIGNS
- 28-10 B PROPOSED MANDATORY SIGNS
- SIGN No. SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
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THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

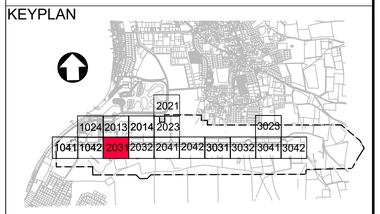
SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

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SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 2031

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-32031
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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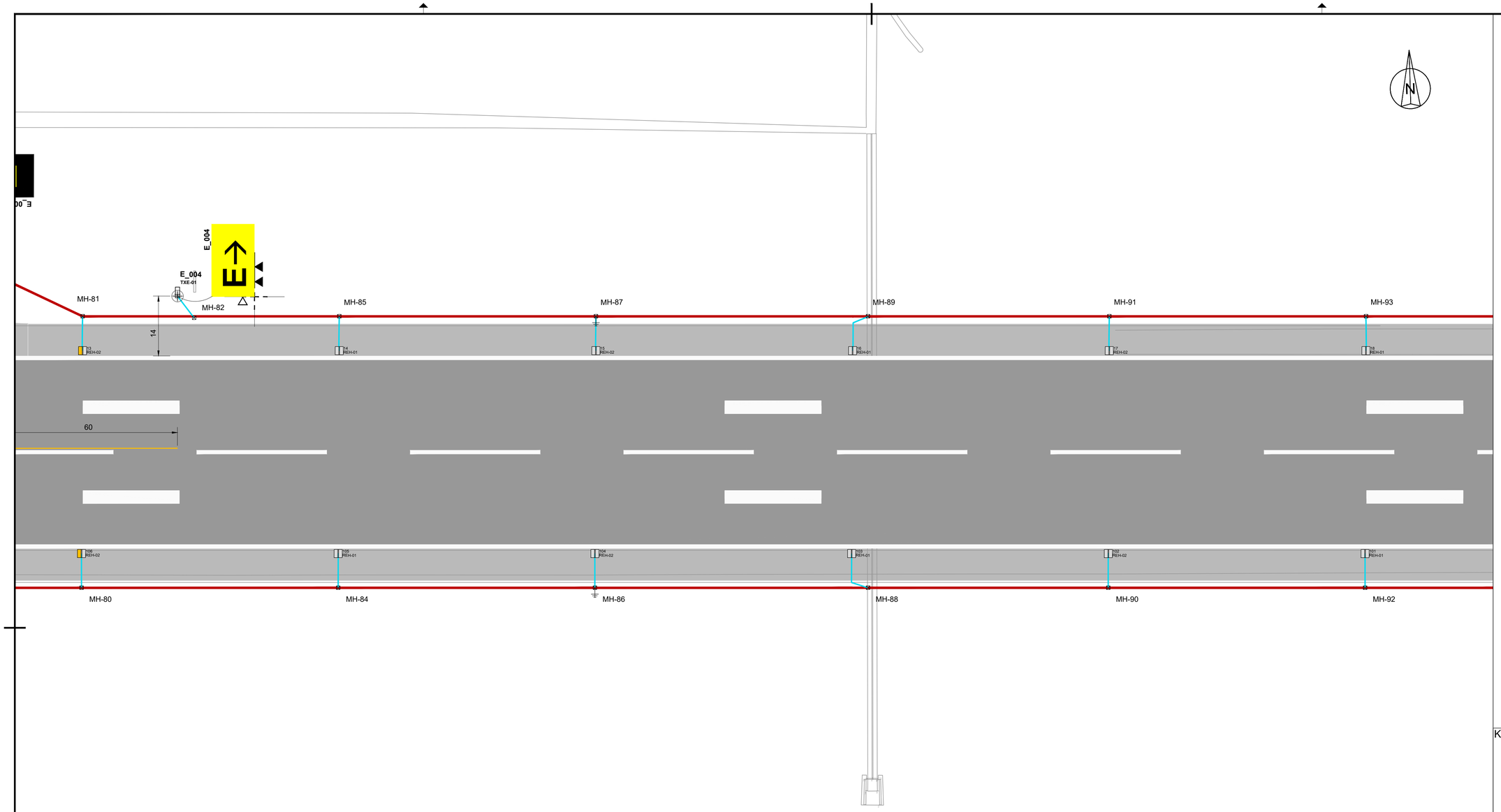
Do Not Scale



LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
- MH-No — TYPE 1 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 2 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 3 - NO EARTHING/INCLUDING EARTHING
- ELEVATED APPROACH LIGHT - UNI (WHITE)
- INSET APPROACH LIGHT - UNI (WHITE)
- PAPI - PRECISION APPROACH PATH INDICATORS
- ELEVATED RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- INSET RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- INSET COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B — PROPOSED RUNWAY EXIT SIGNS
- 28-10 B — PROPOSED MANDATORY SIGNS
- SIGN No. — SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

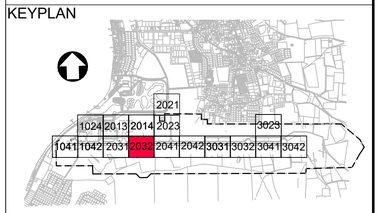
SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 2032

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-32032
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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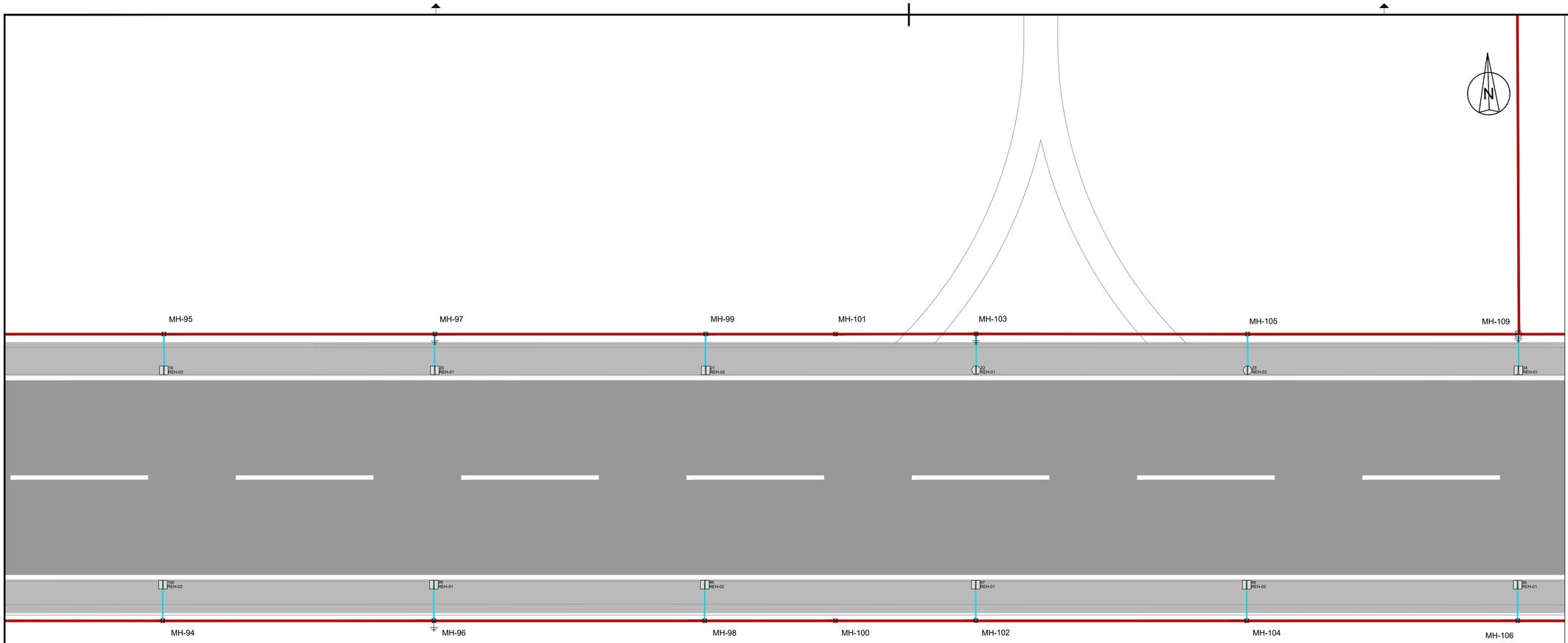

LEGEND:

- EXISTING FENCE
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- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
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- 4 X 100 DUCTS
- MH-No — TYPE 1 - NO EARTHING/INCLUDING EARTHING
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- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
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- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B — PROPOSED RUNWAY EXIT SIGNS
- 28-10 B — PROPOSED MANDATORY SIGNS
- SIGN No. — SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 2041

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-32041
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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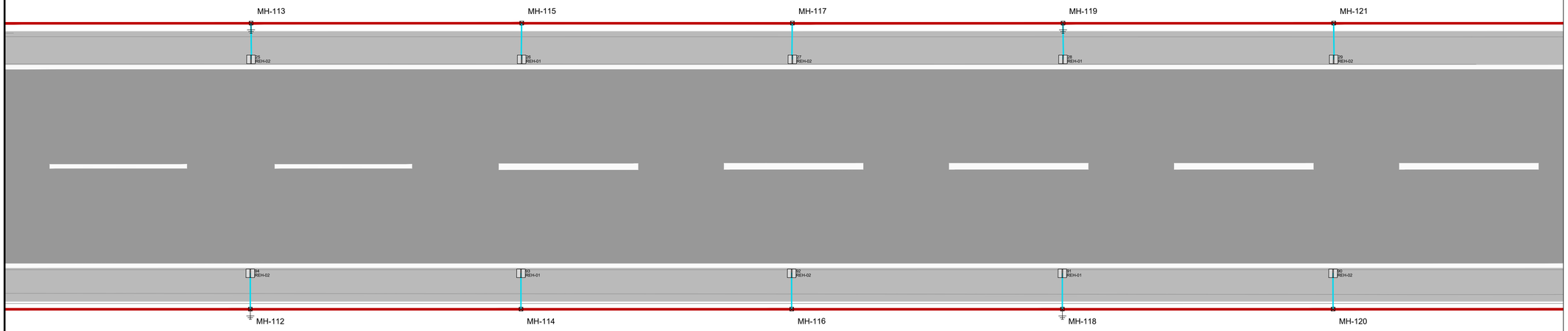

LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
- MH-No — TYPE 1 - NO EARTHING/INCLUDING EARTHING
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- ELEVATED APPROACH LIGHT - UNI (WHITE)
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- WIND DIRECTION INDICATOR
- ←B — PROPOSED RUNWAY EXIT SIGNS
- 28-10 B — PROPOSED MANDATORY SIGNS
- ⊕ SIGN No. — SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 2042

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-32042
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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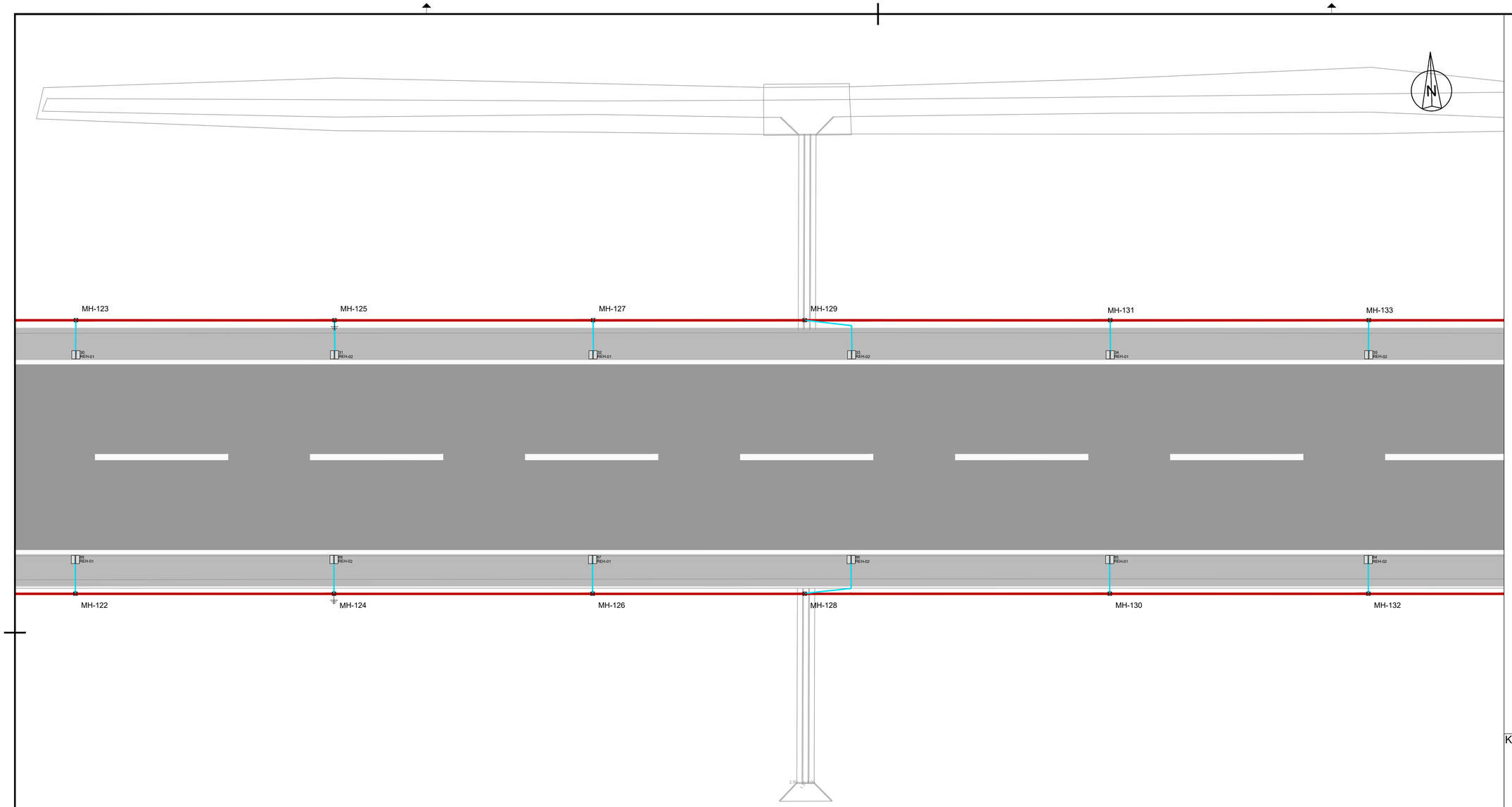
Do Not Scale



LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
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REH	-	Runway Edge Lights
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Substation:

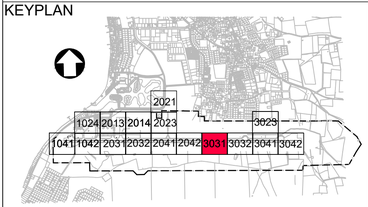
SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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Ministerie van Infrastructuur en Waterstaat

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NACO, NETHERLANDS AIRPORT CONSULTANTS
SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 3031

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
BA	GJB	HVW
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-33031

PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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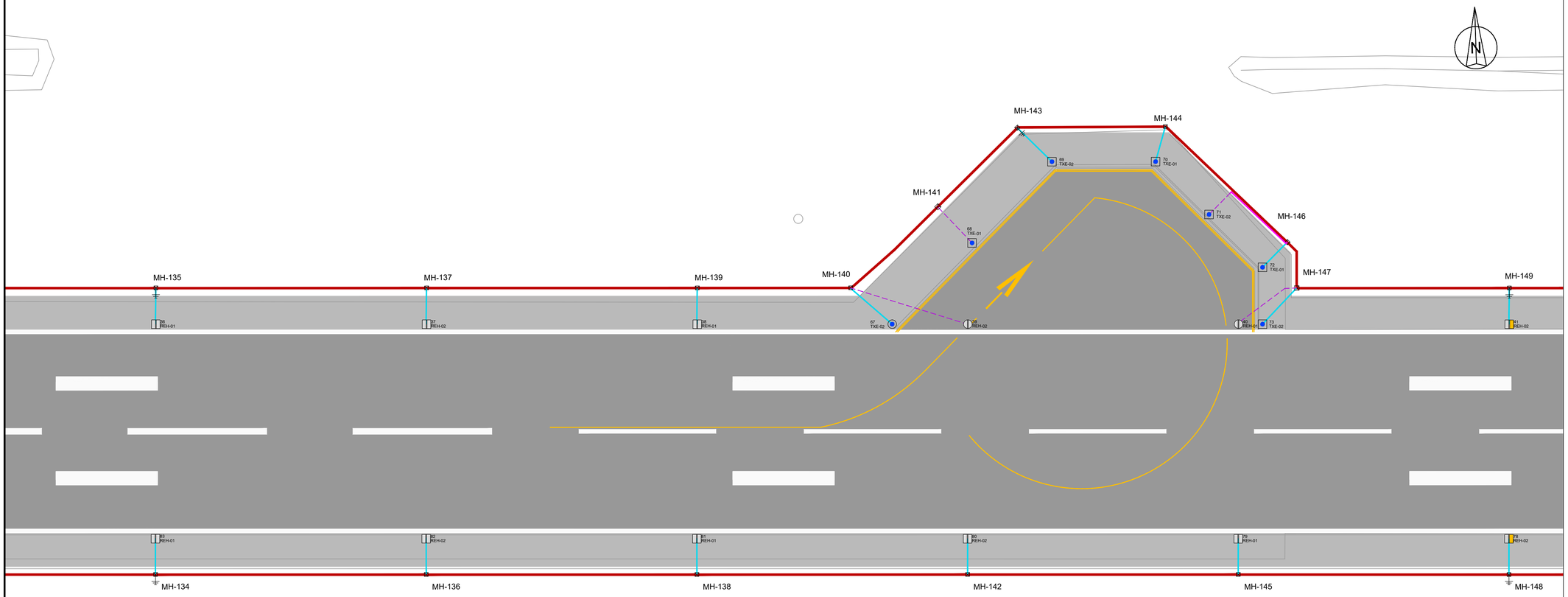
Do Not Scale



LEGEND:

- EXISTING FENCE
- EXISTING PRIMARY DUCTS TO BE REUSED
- EXISTING SECONDARY DUCTS TO BE REUSED
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- SECONDARY DUCTS
- SAW CUT WIRE WAYS FOR EXISTING PAVEMENT
- 4 X 100 DUCTS
- MH-No — TYPE 1 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 2 - NO EARTHING/INCLUDING EARTHING
- MH-No — TYPE 3 - NO EARTHING/INCLUDING EARTHING
- ELEVATED APPROACH LIGHT - UNI (WHITE)
- INSET APPROACH LIGHT - UNI (WHITE)
- PAPI - PRECISION APPROACH PATH INDICATORS
- ELEVATED RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- INSET RUNWAY THRESHOLD LIGHT - UNI (GREEN)
- ELEVATED COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- INSET COMBINED THRESHOLD LIGHT - BI (RED/GREEN)
- ELEVATED RUNWAY END LIGHT - UNI (RED)
- INSET RUNWAY END LIGHT - UNI (RED)
- ELEVATED RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- INSET RUNWAY EDGE LIGHT - BI (YELLOW/WHITE) (WHITE/WHITE)
- ELEVATED TAXIWAY EDGE LIGHT - OMNI (BLUE)
- INSET TAXIWAY EDGE LIGHT - OMNI (BLUE)
- ELEVATED DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- INSET DISPLACED THRESHOLD LIGHT - UNI (BLUE)
- WIND DIRECTION INDICATOR
- ←B — PROPOSED RUNWAY EXIT SIGNS
- 28-10 B — PROPOSED MANDATORY SIGNS
- SIGN No. — SIGN COORDINATE REFERENCE POINT
- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
PAP	-	Precision Approach Path Indicator (PAPI) Lights
REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
3. New primary cables shall be buried directly in earth.
4. For signage setting out dimensions refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31023 to BI2286-NAC-AS-XX-DR-E-EL40-32032.

0 10 20 30 40 50 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
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www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 3032

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-33032
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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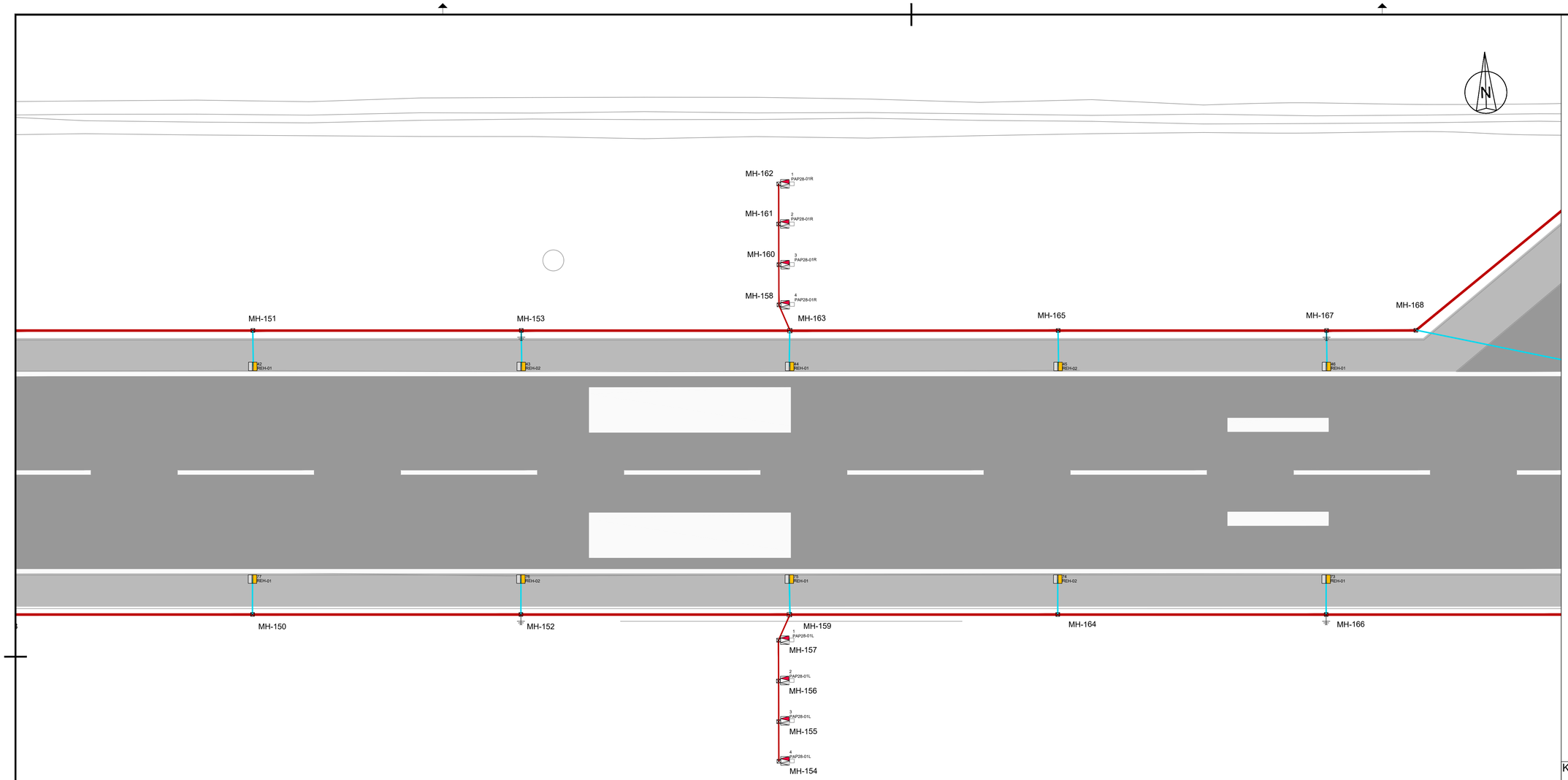

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Substation:

SS-North

NOTES

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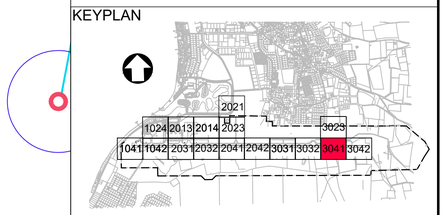
0 10 20 30 40 50 m

KEYPLAN



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3	16-12-2022	Draft Final Design	HvW

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Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

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www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 3041

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-33041
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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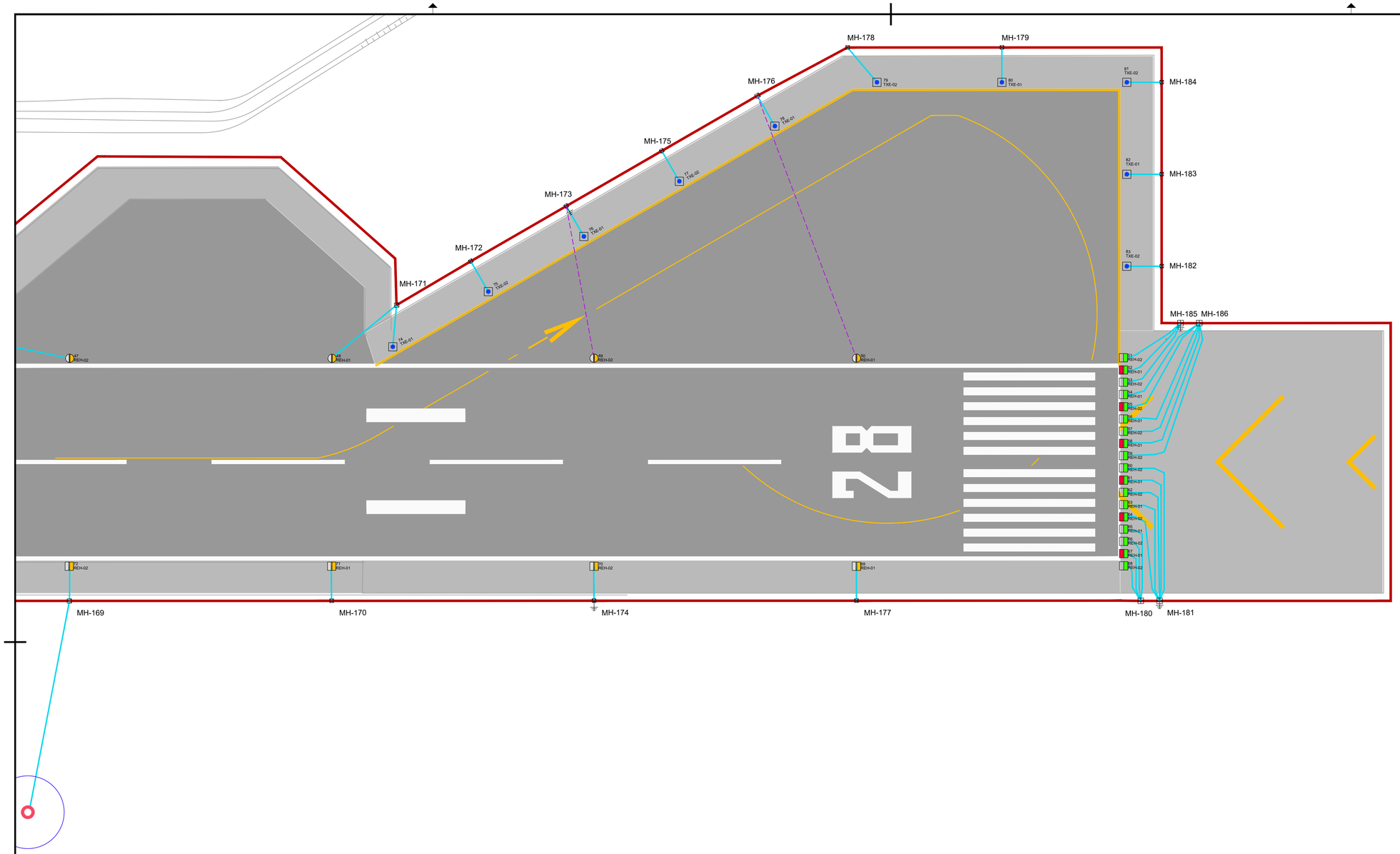

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- SIGN VIEWING DIRECTION
- SIGN BASE

Abbreviations:

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REH	-	Runway Edge Lights
REN	-	Runway End Lights
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Signage

Substation:

SS-North

NOTES

1. For AGL Civil Works details refer to drawings: BI2286-NAC-AS-XX-DR-C-CE35-7000x.
2. For Airfield Signage Schedule refer to drawing BI2286-NAC-AS-XX-DR-E-EL45-70001.
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0 10 20 30 40 50 m

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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www.naco.nl

PROJECT:

Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Layout
Sector 3042

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE 1:500 SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-33042
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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FIXTURE DESCRIPTION	LIGHTING FIXTURE SYMBOL
APPROACH LIGHT INSET COLOR WHITE, UNIDIRECTIONAL LED LAMP	
APPROACH LIGHT ELEVATED COLOR WHITE, UNIDIRECTIONAL LED LAMP	
RUNWAY EDGE LIGHT INSET COLOR WHITE/WHITE, BIDIRECTIONAL LED LAMPS	
RUNWAY EDGE LIGHT INSET COLORS WHITE/YELLOW, BIDIRECTIONAL LED LAMPS	
RUNWAY EDGE LIGHT ELEVATED COLORS WHITE/WHITE, BIDIRECTIONAL LED LAMPS	
RUNWAY EDGE LIGHT ELEVATED COLORS WHITE/YELLOW, BIDIRECTIONAL LED LAMPS	
RUNWAY THRESHOLD LIGHT INSET COLOR GREEN, UNIDIRECTIONAL LED LAMP	
RUNWAY THRESHOLD LIGHT ELEVATED COLOR GREEN, UNIDIRECTIONAL LED LAMP	
DISPLACED THRESHOLD LIGHT ELEVATED COLOR BLUE, UNIDIRECTIONAL LED LAMP	
DISPLACED THRESHOLD LIGHT ELEVATED COLOR BLUE, UNIDIRECTIONAL LED LAMP	
COMBINED THRESHOLD LIGHT INSET COLOR RED/GREEN, BIDIRECTIONAL LED LAMP	
COMBINED THRESHOLD LIGHT ELEVATED COLOR RED/GREEN, BIIDIRECTIONAL LED LAMP	
RUNWAY END LIGHT INSET COLOR RED, UNIDIRECTIONAL LED LAMP	
RUNWAY END LIGHT ELEVATED COLOR RED, UNIDIRECTIONAL LED LAMP	
TAXIWAY EDGE LIGHT INSET COLOR BLUE, OMNIDIRECTIONAL LED LAMP	
TAXIWAY EDGE LIGHT ELEVATED COLOR BLUE, OMNIDIRECTIONAL LED LAMP	
PRECISION APPROACH PATH INDICATOR LIGHT HALOGEN LAMPS	

BON: CCR Load Calculation

SS-North	Load	CCR
Circuit	kVA	kVA
APH10-01	1.2	3.0
APH10-02	1.3	3.0
PAP10-01R	2.1	3.0
PAP28-01L	1.8	3.0
PAP28-01R	1.7	3.0
REH-01	5.3	7.5
REH-02	5.5	7.5
THR10-01	1.3	3.0
THR10-02	1.0	3.0
REN28-01	0.8	1.0
REN28-02	0.9	3.0
TXE-01	4.1	5.0
TXE-02	3.2	4.0
TXE-03 (Future)	-	4.0
TXE-04 (Future)	-	4.0
SPARE	-	7.5
16		
AGL	30	65
Spare (20%)	6	13
Total (kVA)	**36**	**77**

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
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3	16-12-2022	Draft Final Design	HvW
2	24-03-2022	Final Preliminary Design	HvW

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PROJECT:
Renovatie AGL Installatie Bonaire
International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage
Legend & CCR Summary

PHASE: FD | STATE: Final

DRAFT	BA	CHECK	GJB	APPROVED	HVW
DATE	04-03-2022	SCALE SHEET	N/A A1	CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-70001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION
5

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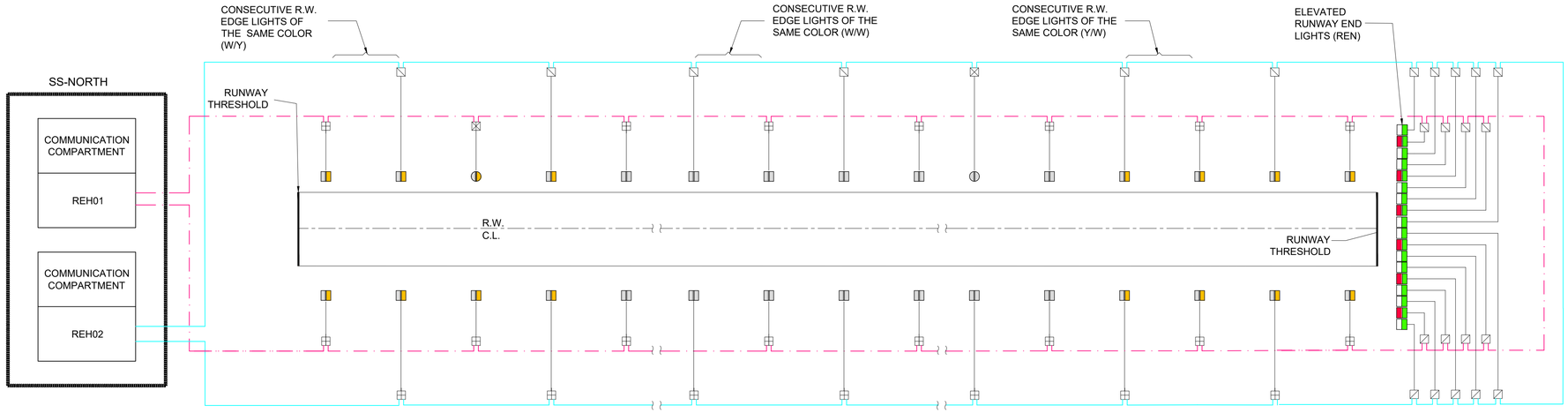
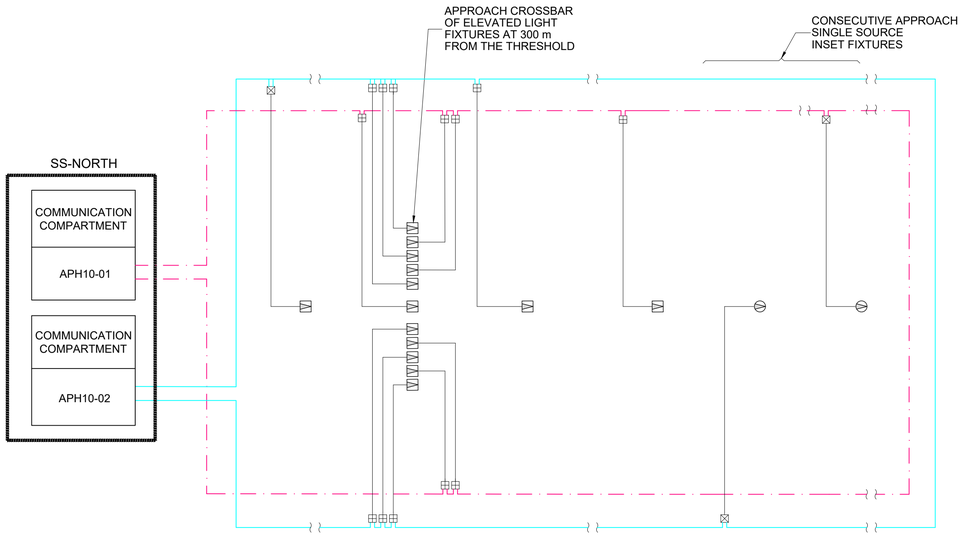
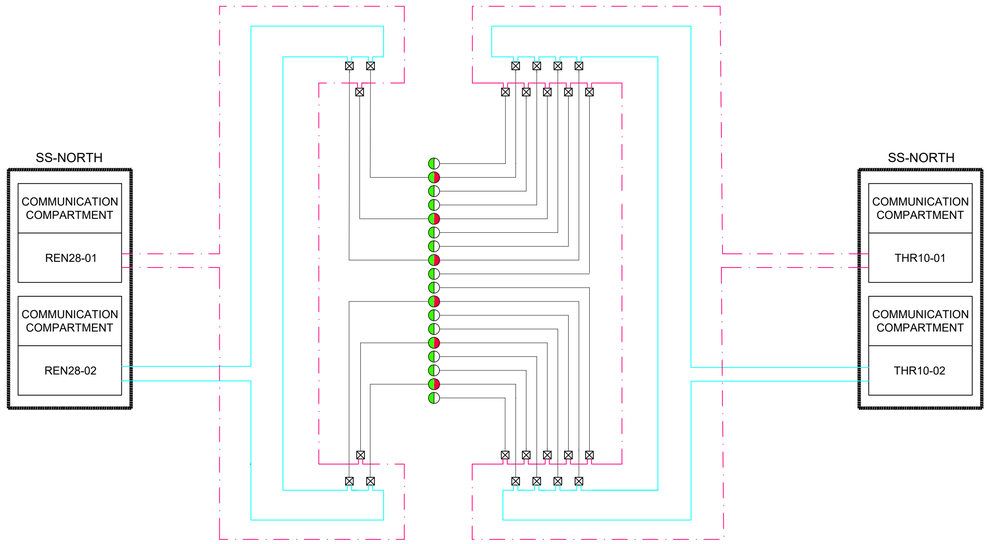


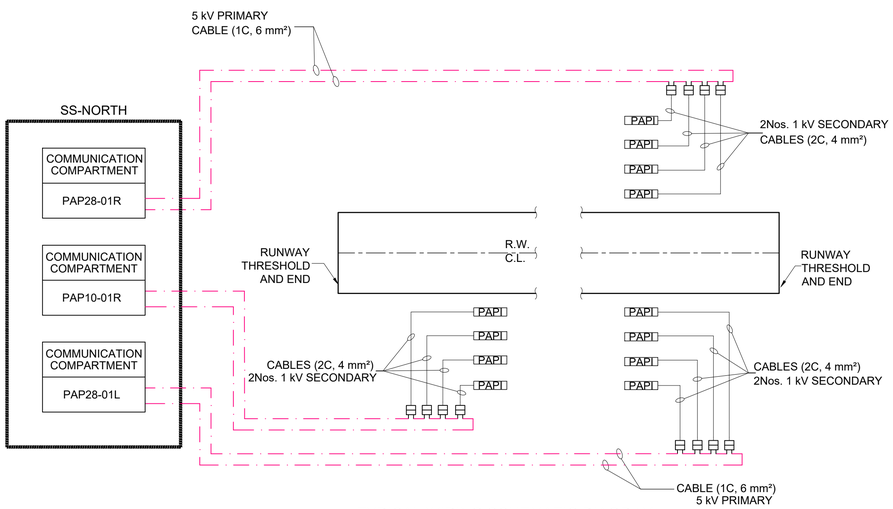
TYPICAL WIRING SCHEMATIC DIAGRAM
FOR RUNWAY EDGE LIGHTING CIRCUITS



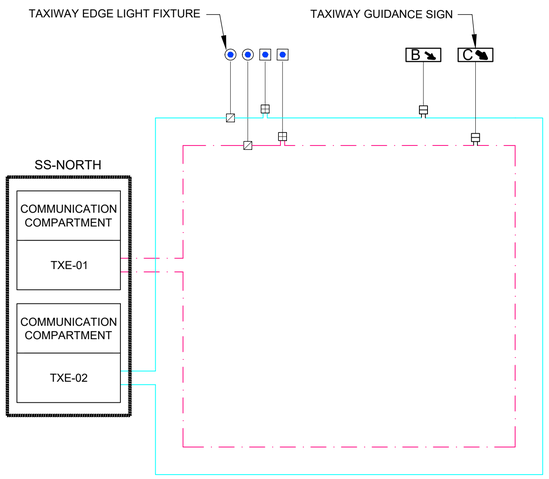
TYPICAL WIRING SCHEMATIC DIAGRAM
FOR RUNWAY APPROACH 10 LIGHTING
CIRCUITS



TYPICAL WIRING SCHEMATIC DIAGRAM
FOR INSET RUNWAY THRESHOLD 10 LIGHT
CIRCUITS



TYPICAL WIRING SCHEMATIC DIAGRAM
FOR PAPI LIGHTING CIRCUITS



TYPICAL WIRING SCHEMATIC DIAGRAM
FOR TAXIWAY EDGE LIGHTING CIRCUITS

LEGEND:

- CIRCUIT 01
- CIRCUIT 02
- ISOLATING TRANSFORMER 6.6A/6.6A (45W, 65W, 100W, 200W Respectively)
- CONSTANT CURRENT REGULATOR
- COMMUNICATION COMPARTMENT / XX — (REFER TO NOTES) XX - CIRCUIT NAME

Abbreviations:

Circuits:

APH	-	Runway Approach Lights
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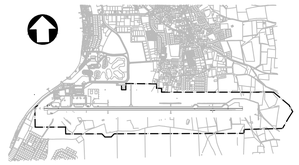
THR	-	Runway Threshold Lights
TXE	-	Taxiway Edge Lights/Guidance Signage

Substations:

SS-North

KEYPLAN



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CLIENT: Rijkswaterstaat, Ministerie van Infrastructuur en Waterstaat

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www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage Interleaving Schematic

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
BA	GJB	HVW
DATE 04-03-2022	SCALE N/A, SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-70002
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ
REVISION 5

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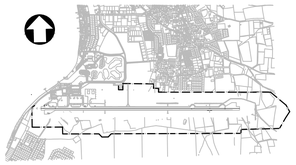
AGL CO-ORDINATES

NUMBER	CIRCUIT	DESCRIPTION	EASTING (m)	NORTHING (m)	TYPE		COLOUR
1	APH10-01	APPROACH	20098.254	15952.360	UNIDIRECTIONAL	INSET	WHITE
2	APH10-02	APPROACH	20038.282	15954.195	UNIDIRECTIONAL	INSET	WHITE
3	APH10-01	APPROACH	19978.120	15956.032	UNIDIRECTIONAL	ELEVATED	WHITE
4	APH10-02	APPROACH	19918.338	15957.864	UNIDIRECTIONAL	ELEVATED	WHITE
5	APH10-02	APPROACH	19858.825	15974.692	UNIDIRECTIONAL	ELEVATED	WHITE
6	APH10-01	APPROACH	19858.742	15971.993	UNIDIRECTIONAL	ELEVATED	WHITE
7	APH10-02	APPROACH	19858.660	15969.295	UNIDIRECTIONAL	ELEVATED	WHITE
8	APH10-01	APPROACH	19858.577	15966.596	UNIDIRECTIONAL	ELEVATED	WHITE
9	APH10-02	APPROACH	19858.495	15963.897	UNIDIRECTIONAL	ELEVATED	WHITE
10	APH10-01	APPROACH	19858.366	15959.699	UNIDIRECTIONAL	ELEVATED	WHITE
11	APH10-02	APPROACH	19858.238	15955.501	UNIDIRECTIONAL	ELEVATED	WHITE
12	APH10-01	APPROACH	19858.155	15952.802	UNIDIRECTIONAL	ELEVATED	WHITE
13	APH10-02	APPROACH	19858.073	15950.104	UNIDIRECTIONAL	ELEVATED	WHITE
14	APH10-01	APPROACH	19857.990	15947.405	UNIDIRECTIONAL	ELEVATED	WHITE
15	APH10-02	APPROACH	19857.908	15944.706	UNIDIRECTIONAL	ELEVATED	WHITE
16	APH10-02	APPROACH	19798.394	15961.534	UNIDIRECTIONAL	ELEVATED	WHITE
1	PAP10-01R	PAPI	20596.828	15899.518	-	-	-
2	PAP10-01R	PAPI	20596.544	15890.569	-	-	-
3	PAP10-01R	PAPI	20596.214	15881.525	-	-	-
4	PAP10-01R	PAPI	20595.922	15872.592	-	-	-
1	PAP28-01L	PAPI	22614.753	15837.926	-	-	-
2	PAP28-01L	PAPI	22614.447	15828.911	-	-	-
3	PAP28-01L	PAPI	22614.211	15819.911	-	-	-
4	PAP28-01L	PAPI	22613.958	15810.958	-	-	-
1	PAP28-01R	PAPI	22617.878	15939.855	-	-	-
2	PAP28-01R	PAPI	22617.572	15930.905	-	-	-
3	PAP28-01R	PAPI	22617.369	15921.812	-	-	-
4	PAP28-01R	PAPI	22617.107	15912.844	-	-	-
1	REH-02	RUNWAY EDGE	19980.875	15979.680	UNIDIRECTIONAL	ELEVATED	RED
2	REH-01	RUNWAY EDGE	20040.275	15977.863	UNIDIRECTIONAL	INSET	RED
3	REH-02	RUNWAY EDGE	20099.676	15976.046	UNIDIRECTIONAL	ELEVATED	RED
4	REH-02	RUNWAY EDGE	20219.236	15972.389	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
5	REH-01	RUNWAY EDGE	20279.196	15970.555	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
6	REH-02	RUNWAY EDGE	20338.858	15968.736	BIDIRECTIONAL	INSET	YELLOW/ WHITE
7	REH-01	RUNWAY EDGE	20398.825	15966.901	BIDIRECTIONAL	INSET	YELLOW/ WHITE
8	REH-02	RUNWAY EDGE	20459.076	15965.056	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
9	REH-01	RUNWAY EDGE	20519.036	15963.223	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
10	REH-02	RUNWAY EDGE	20578.996	15961.390	BIDIRECTIONAL	INSET	YELLOW/ WHITE
11	REH-01	RUNWAY EDGE	20638.956	15959.557	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
12	REH-02	RUNWAY EDGE	20698.916	15957.723	BIDIRECTIONAL	INSET	YELLOW/ WHITE
13	REH-01	RUNWAY EDGE	20758.876	15955.890	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
14	REH-02	RUNWAY EDGE	20818.836	15954.057	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
15	REH-01	RUNWAY EDGE	20878.796	15952.224	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
16	REH-02	RUNWAY EDGE	20938.757	15950.391	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
17	REH-01	RUNWAY EDGE	20998.717	15948.558	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
18	REH-02	RUNWAY EDGE	21058.677	15946.725	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
19	REH-01	RUNWAY EDGE	21118.637	15944.891	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
20	REH-02	RUNWAY EDGE	21178.597	15943.058	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
21	REH-01	RUNWAY EDGE	21238.557	15941.225	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
22	REH-02	RUNWAY EDGE	21298.397	15939.432	BIDIRECTIONAL	INSET	WHITE/ WHITE
23	REH-01	RUNWAY EDGE	21358.477	15937.559	BIDIRECTIONAL	INSET	WHITE/ WHITE
24	REH-02	RUNWAY EDGE	21418.437	15935.726	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
25	REH-01	RUNWAY EDGE	21478.397	15933.893	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
26	REH-02	RUNWAY EDGE	21538.357	15932.059	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
27	REH-01	RUNWAY EDGE	21598.317	15930.226	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
28	REH-02	RUNWAY EDGE	21658.277	15928.393	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
29	REH-01	RUNWAY EDGE	21718.237	15926.560	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
30	REH-02	RUNWAY EDGE	21778.197	15924.727	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
31	REH-01	RUNWAY EDGE	21838.157	15922.894	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
32	REH-02	RUNWAY EDGE	21898.117	15921.061	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
33	REH-01	RUNWAY EDGE	21958.077	15919.227	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
34	REH-02	RUNWAY EDGE	22018.037	15917.394	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
35	REH-01	RUNWAY EDGE	22077.997	15915.561	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
36	REH-02	RUNWAY EDGE	22137.957	15913.728	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
37	REH-01	RUNWAY EDGE	22197.924	15911.891	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
38	REH-02	RUNWAY EDGE	22257.891	15910.054	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
39	REH-01	RUNWAY EDGE	22317.837	15908.229	BIDIRECTIONAL	INSET	WHITE/ WHITE
40	REH-02	RUNWAY EDGE	22377.797	15906.395	BIDIRECTIONAL	INSET	WHITE/ WHITE
41	REH-01	RUNWAY EDGE	22437.793	15904.543	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
42	REH-02	RUNWAY EDGE	22497.760	15902.706	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
43	REH-01	RUNWAY EDGE	22557.727	15900.868	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
44	REH-02	RUNWAY EDGE	22617.695	15899.031	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
45	REH-01	RUNWAY EDGE	22677.662	15897.194	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
46	REH-02	RUNWAY EDGE	22737.629	15895.357	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
47	REH-01	RUNWAY EDGE	22797.596	15893.520	BIDIRECTIONAL	INSET	YELLOW/ WHITE
48	REH-02	RUNWAY EDGE	22857.564	15891.683	BIDIRECTIONAL	INSET	YELLOW/ WHITE
49	REH-01	RUNWAY EDGE	22917.449	15889.895	BIDIRECTIONAL	INSET	YELLOW/ WHITE
50	REH-02	RUNWAY EDGE	22977.421	15888.061	BIDIRECTIONAL	INSET	YELLOW/ WHITE
51	REH-02	THRESHOLD	23038.435	15886.292	UNIDIRECTIONAL	ELEVATED	GREEN
52	REH-01	THRESHOLD COMBINED	23038.354	15883.496	BIDIRECTIONAL	ELEVATED	RED/ GREEN
53	REH-02	THRESHOLD	23038.273	15880.699	UNIDIRECTIONAL	ELEVATED	GREEN
54	REH-01	THRESHOLD	23038.192	15877.903	UNIDIRECTIONAL	ELEVATED	GREEN
55	REH-02	THRESHOLD COMBINED	23038.111	15875.106	BIDIRECTIONAL	ELEVATED	RED/ GREEN
56	REH-01	THRESHOLD	23038.029	15872.310	UNIDIRECTIONAL	ELEVATED	GREEN
57	REH-02	THRESHOLD	23037.948	15869.513	UNIDIRECTIONAL	ELEVATED	GREEN
58	REH-01	THRESHOLD COMBINED	23037.867	15866.717	BIDIRECTIONAL	ELEVATED	RED/ GREEN
59	REH-02	THRESHOLD	23037.786	15863.920	UNIDIRECTIONAL	ELEVATED	GREEN
60	REH-02	THRESHOLD	23037.705	15861.124	UNIDIRECTIONAL	ELEVATED	GREEN
61	REH-01	THRESHOLD COMBINED	23037.624	15858.327	BIDIRECTIONAL	ELEVATED	RED/ GREEN
62	REH-02	THRESHOLD	23037.543	15855.531	UNIDIRECTIONAL	ELEVATED	GREEN
63	REH-01	THRESHOLD	23037.462	15852.734	UNIDIRECTIONAL	ELEVATED	GREEN
64	REH-02	THRESHOLD COMBINED	23037.381	15849.938	BIDIRECTIONAL	ELEVATED	RED/ GREEN
65	REH-01	THRESHOLD	23037.300	15847.141	UNIDIRECTIONAL	ELEVATED	GREEN
66	REH-02	THRESHOLD	23037.219	15844.345	UNIDIRECTIONAL	ELEVATED	GREEN
67	REH-01	THRESHOLD COMBINED	23037.138	15841.548	BIDIRECTIONAL	ELEVATED	RED/ GREEN
68	REH-02	THRESHOLD	23037.057	15838.752	UNIDIRECTIONAL	ELEVATED	GREEN
69	REH-02	RUNWAY EDGE	22975.966	15840.523	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
70	REH-01	RUNWAY EDGE	22915.999	15842.360	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
71	REH-02	RUNWAY EDGE	22856.032	15844.197	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE

NUMBER	CIRCUIT	DESCRIPTION	EASTING (m)	NORTHING (m)	TYPE		COLOUR
72	REH-01	RUNWAY EDGE	22796.065	15846.034	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
73	REH-02	RUNWAY EDGE	22736.098	15847.871	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
74	REH-01	RUNWAY EDGE	22676.130	15849.708	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
75	REH-02	RUNWAY EDGE	22616.163	15851.545	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
76	REH-01	RUNWAY EDGE	22556.196	15853.382	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
77	REH-02	RUNWAY EDGE	22496.229	15855.220	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
78	REH-01	RUNWAY EDGE	22436.261	15857.057	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
79	REH-02	RUNWAY EDGE	22376.294	15858.894	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
80	REH-01	RUNWAY EDGE	22316.327	15860.731	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
81	REH-02	RUNWAY EDGE	22256.360	15862.568	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
82	REH-01	RUNWAY EDGE	22196.393	15864.405	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
83	REH-02	RUNWAY EDGE	22136.425	15866.242	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
84	REH-01	RUNWAY EDGE	22076.458	15868.079	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
85	REH-02	RUNWAY EDGE	22016.491	15869.916	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
86	REH-01	RUNWAY EDGE	21956.524	15871.753	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
87	REH-02	RUNWAY EDGE	21896.556	15873.590	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
88	REH-01	RUNWAY EDGE	21836.589	15875.428	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
89	REH-02	RUNWAY EDGE	21776.622	15877.265	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
90	REH-01	RUNWAY EDGE	21716.655	15879.102	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
91	REH-02	RUNWAY EDGE	21656.687	15880.939	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
92	REH-01	RUNWAY EDGE	21596.720	15882.776	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
93	REH-02	RUNWAY EDGE	21536.753	15884.613	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
94	REH-01	RUNWAY EDGE	21476.786	15886.450	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
95	REH-02	RUNWAY EDGE	21416.819	15888.287	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
96	REH-01	RUNWAY EDGE	21356.851	15890.124	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
97	REH-02	RUNWAY EDGE	21296.884	15891.961	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
98	REH-01	RUNWAY EDGE	21236.917	15893.798	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
99	REH-02	RUNWAY EDGE	21176.950	15895.635	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
100	REH-01	RUNWAY EDGE	21116.982	15897.473	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
101	REH-02	RUNWAY EDGE	21057.015	15899.310	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
102	REH-01	RUNWAY EDGE	20997.048	15901.147	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
103	REH-02	RUNWAY EDGE	20937.081	15902.984	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
104	REH-01	RUNWAY EDGE	20877.113	15904.821	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
105	REH-02	RUNWAY EDGE	20817.146	15906.658	BIDIRECTIONAL	ELEVATED	WHITE/ WHITE
106	REH-01	RUNWAY EDGE	20757.179	15908.495	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
107	REH-02	RUNWAY EDGE	20697.212	15910.332	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
108	REH-01	RUNWAY EDGE	20637.245	15912.169	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
109	REH-02	RUNWAY EDGE	20577.277	15914.006	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
110	REH-01	RUNWAY EDGE	20517.310	15915.843	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
111	REH-02	RUNWAY EDGE	20457.343	15917.681	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
112	REH-01	RUNWAY EDGE	20397.376	15919.518	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
113	REH-02	RUNWAY EDGE	20337.408	15921.355	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
114	REH-01	RUNWAY EDGE	20277.441	15923.192	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
115	REH-02	RUNWAY EDGE	20217.474	15925.029	BIDIRECTIONAL	ELEVATED	YELLOW/ WHITE
116	REH-02	RUNWAY EDGE	20098.303	15928.676	UNIDIRECTIONAL	INSET	RED
117	REH-01	RUNWAY EDGE	20038.902	15930.493	UNIDIRECTIONAL	INSET	RED
118	REH-02	RUNWAY EDGE	19979.502	15932.310	UNIDIRECTIONAL	ELEVATED	RED
1/2	REN28-02/THR10-02	THRESHOLD COMBINED	20158.292	15971.462	BIDIRECTIONAL	INSET	RED/ GREEN
1/5	REN28-01/THR10-01	THRESHOLD COMBINED	20158.068	15963.095	BIDIRECTIONAL	INSET	RED/ GREEN
2/14	REN28-01/THR10-01	THRESHOLD COMBINED	20157.342	15938.023	BIDIRECTIONAL	INSET	RED/ GREEN
2/8	REN28-02/THR10-02	THRESHOLD COMBINED	20157.817	15954.735	BIDIRECTIONAL	INSET	RED/ GREEN
3/11	REN28-02/THR10-02	THRESHOLD COMBINED	20157.579	15946.383	BIDIRECTIONAL	INSET	RED/ GREEN
4/17	REN28-02/THR10-02	THRESHOLD COMBINED	20157.104	15929.664	BIDIRECTIONAL	INSET	RED/ GREEN
1	THR10-01	THRESHOLD	20158.371	15974.248	UNIDIRECTIONAL	INSET	GREEN
3	THR10-01	THRESHOLD	20158.213	15968.675	UNIDIRECTIONAL	INSET	GREEN
4	THR10-02	THRESHOLD	20158.133	15965.882	UNIDIRECTIONAL	INSET	GREEN
6	THR10-02	THRESHOLD	20157.975	15960.316	UNIDIRECTIONAL	INSET	GREEN
7	THR10-01	THRESHOLD	20157.897	15957.572	UNIDIRECTIONAL	INSET	GREEN
9	THR10-01	THRESHOLD	20157.738	15951.956	UNIDIRECTIONAL	INSET	GREEN
10	THR10-01	THRESHOLD	20157.658	15949.170	UNIDIRECTIONAL	INSET	GREEN
12	THR10-01	THRESHOLD	20157.500	15943.597	UNIDIRECTIONAL	INSET	GREEN
13	THR10-02	THRESHOLD	20157.421	15940.810	UNIDIRECTIONAL	INSET	GREEN
15	THR10-02	THRESHOLD	20157.262	15935.237	UNIDIRECTIONAL	INSET	GREEN
16	THR10-01	THRESHOLD	20157.183	15932.450	UNIDIRECTIONAL	INSET	GREEN
18	THR10-01	THRESHOLD	20157.025	15926.877	UNIDIRECTIONAL	INSET	GREEN
1	TXE-01	TAXIWAY EDGE	20147.284	15924.577	OMNIDIRECTIONAL	ELEVATED	BLUE
2	TXE-02	TAXIWAY EDGE	20125.048	15912.630	OMNIDIRECTIONAL	ELEVATED	BLUE
3	TXE-01	TAXIWAY EDGE	20102.811	15900.683	OMNIDIRECTIONAL	ELEVATED	BLUE
4	TXE-02	TAXIWAY EDGE	20080.574	15888.735	OMNIDIRECTIONAL	ELEVATED	BLUE
5	TXE-01	TAXIWAY EDGE	20058.337	15876.788	OMNIDIRECTIONAL	ELEVATED	BLUE
6	TXE-02	TAXIWAY EDGE	20034.680	15867.483	OMNIDIRECTIONAL	ELEVATED	BLUE
7	TXE-01	TAXIWAY EDGE	20006.132	15868.357	OMNIDIRECTIONAL	ELEVATED	BLUE
8	TXE-02	TAXIWAY EDGE	19977.584	15869.230	OMNIDIRECTIONAL	ELEVATED	BLUE
9	TXE-01	TAXIWAY EDGE	19978.433	15896.967	OMNIDIRECTIONAL	ELEVATED	BLUE
10	TXE-02	TAXIWAY EDGE	19979.281	15924.704	OMNIDIRECTIONAL	ELEVATED	BLUE
11	TXE-01	TAXIWAY EDGE	19979.951	15947.820	UNIDIRECTIONAL	ELEVATED	BLUE
12	TXE-02	TAXIWAY EDGE	19980.621	15970.936	UNIDIRECTIONAL	ELEVATED	BLUE
13	TXE-01	TAXIWAY EDGE	20010.419	15978.728	UNIDIRECTIONAL	INSET	BLUE
14	TXE-02	TAXIWAY EDGE	20044.999	15977.726	UNIDIRECTIONAL	INSET	BLUE
15	TXE-01	TAXIWAY EDGE	20079.578	15976.724	UNIDIRECTIONAL	ELEVATED	BLUE
16	TXE-02	TAXIWAY EDGE	20114.158	15975.721	UNIDIRECTIONAL	ELEVATED	BLUE
17	TXE-01	TAXIWAY EDGE	20148.738	15974.719	UNIDIRECTIONAL	ELEVATED	BLUE
18	TXE-02	TAXIWAY EDGE	20165.479	15975.686	OMNIDIRECTIONAL	ELEVATED	BLUE
19	TXE-01	TAXIWAY EDGE	20170.205	15985.195	OMNIDIRECTIONAL	ELEVATED	BLUE
20	TXE-02	TAXIWAY EDGE	20170.710	16002.641	OMNIDIRECTIONAL	ELEVATED	BLUE
21	TXE-01	TAXIWAY EDGE	20171.216	16020.073	OMNIDIRECTIONAL	ELEVATED	BLUE
22	TXE-01	TAXIWAY EDGE	20190.381	16019.503	OMNIDIRECTIONAL	ELEVATED	BLUE
23	TXE-02	TAXIWAY EDGE	20189.875	16002.078	OMNIDIRECTIONAL	ELEVATED	BLUE
24	TXE-01	TAXIWAY EDGE	20189.370	15984.654	OMNIDIRECTIONAL	ELEVATED	BLUE
25	TXE-02	TAXIWAY EDGE	20192.751	15975.905	OMNIDIRECTIONAL	ELEVATED	BLUE
26	TXE-01	TAXIWAY EDGE	20201.012	15972.947	OMNIDIRECTIONAL	ELEVATED	BLUE
27	TXE-02	TAXIWAY EDGE	20325.265	15969.164	OMNIDIRECTIONAL	ELEVATED	BLUE
28	TXE-01	TAXIWAY EDGE	20342.629	15971.953	OMNIDIRECTIONAL	ELEVATED	BLUE
29	TXE-02	TAXIWAY EDGE	20359.950	15983.927	OMNIDIRECTIONAL	ELEVATED	BLUE
30	TXE-01	TAXIWAY EDGE	20368.137	15996.777	OMNIDIRECTIONAL	ELEVATED	BLUE
31	TXE-02	TAXIWAY EDGE	20371.840	16013.968	OMNIDIRECTIONAL	ELEVATED	BLUE
32	TXE-02	TAXIWAY EDGE	20399.910	16013.155	OMNIDIRECTIONAL	ELEVATED	BLUE
33	TXE-01	TAXIWAY EDGE	20399.322	15995.873	OMNIDIRECTIONAL	ELEVATED	BLUE
34	TXE-02	TAXIWAY EDGE	20401.966	15982.641	OMNIDIRECTIONAL	ELEVATED	BLUE

NOTES:
1. All Coordinates according to Local Grid Coordinate System as provided.
2. Coordinate system to be verified on site with the information provided on this drawing. Any discrepancies should be brought to the attention of the Airport Authorities.

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

CLIENT

Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

CONSULTANT

NACO
a company of Royal HaskoningDHV

NACO, NETHERLANDS AIRPORT CONSULTANTS
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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage Coordinates Schedule

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
LT	GJB	HVW

DATE	SCALE / SHEET	CONTRACT NO.:
16-12-2022	N/A / A1	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL40-80001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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Do Not Scale

AGL CO-ORDINATES

NUMBER	CIRCUIT	DESCRIPTION	EASTING (m)	NORTHING (m)	TYPE		COLOUR
35	TXE-01	TAXIWAY EDGE	20412,883	15969,533	OMNIDIRECTIONAL	ELEVATED	BLUE
36	TXE-02	TAXIWAY EDGE	20427,250	15966,021	OMNIDIRECTIONAL	ELEVATED	BLUE
37	TXE-01	TAXIWAY EDGE	20527,317	15962,962	OMNIDIRECTIONAL	ELEVATED	BLUE
38	TXE-02	TAXIWAY EDGE	20541,400	15965,980	OMNIDIRECTIONAL	ELEVATED	BLUE
39	TXE-01	TAXIWAY EDGE	20551,900	15976,213	OMNIDIRECTIONAL	ELEVATED	BLUE
40	TXE-02	TAXIWAY EDGE	20556,830	15989,177	OMNIDIRECTIONAL	ELEVATED	BLUE
41	TXE-01	TAXIWAY EDGE	20557,597	16006,971	OMNIDIRECTIONAL	ELEVATED	BLUE
42	TXE-01	TAXIWAY EDGE	20585,922	16006,150	OMNIDIRECTIONAL	ELEVATED	BLUE
43	TXE-02	TAXIWAY EDGE	20589,288	15988,236	OMNIDIRECTIONAL	ELEVATED	BLUE
44	TXE-01	TAXIWAY EDGE	20594,633	15977,706	OMNIDIRECTIONAL	ELEVATED	BLUE
45	TXE-02	TAXIWAY EDGE	20610,580	15964,309	OMNIDIRECTIONAL	ELEVATED	BLUE
46	TXE-01	TAXIWAY EDGE	20629,901	15959,826	OMNIDIRECTIONAL	ELEVATED	BLUE
47	TXE-02	TAXIWAY EDGE	20648,244	15965,231	OMNIDIRECTIONAL	ELEVATED	BLUE
48	TXE-01	TAXIWAY EDGE	20658,845	15978,699	OMNIDIRECTIONAL	ELEVATED	BLUE
49	TXE-02	TAXIWAY EDGE	20664,557	16002,131	OMNIDIRECTIONAL	ELEVATED	BLUE
50	TXE-01	TAXIWAY EDGE	20668,766	16025,983	OMNIDIRECTIONAL	ELEVATED	BLUE
51	TXE-02	TAXIWAY EDGE	20671,196	16055,352	OMNIDIRECTIONAL	ELEVATED	BLUE
52	TXE-01	TAXIWAY EDGE	20672,100	16084,281	OMNIDIRECTIONAL	ELEVATED	BLUE
53	TXE-02	TAXIWAY EDGE	20672,993	16113,193	OMNIDIRECTIONAL	ELEVATED	BLUE
54	TXE-01	TAXIWAY EDGE	20670,048	16122,602	OMNIDIRECTIONAL	ELEVATED	BLUE
55	TXE-02	TAXIWAY EDGE	20661,768	16127,689	OMNIDIRECTIONAL	ELEVATED	BLUE
56	TXE-01	TAXIWAY EDGE	20798,264	16085,419	OMNIDIRECTIONAL	INSET	BLUE
57	TXE-02	TAXIWAY EDGE	20751,327	16086,993	OMNIDIRECTIONAL	ELEVATED	BLUE
58	TXE-01	TAXIWAY EDGE	20736,140	16085,208	OMNIDIRECTIONAL	ELEVATED	BLUE
59	TXE-02	TAXIWAY EDGE	20722,278	16078,377	OMNIDIRECTIONAL	ELEVATED	BLUE
60	TXE-01	TAXIWAY EDGE	20711,190	16067,593	OMNIDIRECTIONAL	ELEVATED	BLUE
61	TXE-02	TAXIWAY EDGE	20703,971	16054,188	OMNIDIRECTIONAL	ELEVATED	BLUE
62	TXE-01	TAXIWAY EDGE	20700,848	16024,345	OMNIDIRECTIONAL	ELEVATED	BLUE
63	TXE-02	TAXIWAY EDGE	20700,122	16001,100	OMNIDIRECTIONAL	ELEVATED	BLUE
64	TXE-01	TAXIWAY EDGE	20701,997	15978,676	OMNIDIRECTIONAL	ELEVATED	BLUE
65	TXE-02	TAXIWAY EDGE	20710,515	15965,053	OMNIDIRECTIONAL	ELEVATED	BLUE
66	TXE-01	TAXIWAY EDGE	20724,250	15956,825	OMNIDIRECTIONAL	ELEVATED	BLUE
67	TXE-02	TAXIWAY EDGE	22301.0808	15908.7440	OMNIDIRECTIONAL	INSET	BLUE
68	TXE-01	TAXIWAY EDGE	22319.3280	15926.1819	OMNIDIRECTIONAL	ELEVATED	BLUE
69	TXE-02	TAXIWAY EDGE	22337.5752	15943.6198	OMNIDIRECTIONAL	ELEVATED	BLUE
70	TXE-01	TAXIWAY EDGE	22360.5291	15942.9356	OMNIDIRECTIONAL	ELEVATED	BLUE
71	TXE-02	TAXIWAY EDGE	22372.0205	15930.8804	OMNIDIRECTIONAL	ELEVATED	BLUE
72	TXE-01	TAXIWAY EDGE	22383.5120	15918.8252	OMNIDIRECTIONAL	ELEVATED	BLUE
73	TXE-02	TAXIWAY EDGE	22383.1267	15906.2338	OMNIDIRECTIONAL	ELEVATED	BLUE
74	TXE-01	TAXIWAY EDGE	22871.5428	15893.8991	OMNIDIRECTIONAL	ELEVATED	BLUE
75	TXE-02	TAXIWAY EDGE	22893.7587	15905.8354	OMNIDIRECTIONAL	ELEVATED	BLUE
76	TXE-01	TAXIWAY EDGE	22915.9745	15917.7717	OMNIDIRECTIONAL	ELEVATED	BLUE
77	TXE-02	TAXIWAY EDGE	22938.1903	15929.7079	OMNIDIRECTIONAL	ELEVATED	BLUE
78	TXE-01	TAXIWAY EDGE	22960.4061	15941.6442	OMNIDIRECTIONAL	ELEVATED	BLUE
79	TXE-02	TAXIWAY EDGE	22984.0418	15950.9378	OMNIDIRECTIONAL	ELEVATED	BLUE
80	TXE-01	TAXIWAY EDGE	23012.5900	15950.0649	OMNIDIRECTIONAL	ELEVATED	BLUE
81	TXE-02	TAXIWAY EDGE	23041.1381	15949.1919	OMNIDIRECTIONAL	ELEVATED	BLUE
82	TXE-01	TAXIWAY EDGE	23040.4954	15928.1846	OMNIDIRECTIONAL	ELEVATED	BLUE
83	TXE-02	TAXIWAY EDGE	23039.8527	15907.1773	OMNIDIRECTIONAL	ELEVATED	BLUE

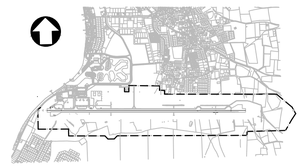
SIGNAGE CO-ORDINATES

NAME	EASTING (m)	NORTHING (m)	BASE TYPE
B_001	20098.295	15989.769	2
B_002	20160.755	16028.211	4
B_003	20201.860	16028.208	4
B_004	20263.970	15989.771	2
C_001	20290.941	15989.770	2
C_002	20362.087	16028.960	4
C_003	20414.711	16028.915	4
C_004	20482.934	15989.757	2
D_001	20476.610	15989.754	2
D_002	20545.331	16028.824	4
D_003	20597.968	16028.930	4
D_004	20626.348	15989.723	2
E_001	20625.194	15989.738	2
E_002	20656.805	16028.571	4
E_003	20711.763	16028.787	4
E_004	20783.466	15989.777	2
R_001	21116.110	16588.309	3

Sign Type	Concrete Base Width (m)
1	0.95 - 1.65
2	1.7 - 2.65
3	2.7 - 3.15
4	3.2 - 4.15
5	4.2 - 5.15
6	5.2 - 6.15
7	6.2 - 7.45
8	>7.5

NOTES:
1. All Coordinates according to Local Grid Coordinate System as provided.
2. Coordinate system to be verified on site with the information provided on this drawing. Any discrepancies should be brought to the attention of the Airport Authorities.
3. Refer to Drawings BI2286-NAC-AS-XX-DR-C-CE35-70002 for Sign Base details.

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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Ministerie van Infrastructuur en Waterstaat

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SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Airfield Ground Lighting & Signage Coordinates Schedule

PHASE: PD | STATE: Final

DRAFT	CHECK	APPROVED
LT	GJB	HVW
DATE 16-12-2022	SCALE N/A SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-E-EL40-80002
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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Do Not Scale

B

B_001 ←B

800 x 1300 mm
VA: 96

B_002 28-10 B

800 x 2700 mm
VA: 187

B_003 B 28-10

800 x 2700 mm
VA: 187

B_004 B→

800 x 1300 mm
VA: 96

C

C_001 ←C

800 x 1300 mm
VA: 96

C_002 28-10 C

800 x 2700 mm
VA: 187

C_003 C 28-10

800 x 2700 mm
VA: 187

C_004 C→

800 x 1300 mm
VA: 96

D

D_001 ←D

800 x 1300 mm
VA: 96

D_002 28-10 D

800 x 2700 mm
VA: 187

D_003 D 28-10

800 x 2700 mm
VA: 187

D_004 D→

800 x 1300 mm
VA: 96

E

E_001 ←E

800 x 1300 mm
VA: 96

E_002 28-10 E

800 x 2500 mm
VA: 187

E_003 E 28-10

800 x 2500 mm
VA: 187

E_004 E→

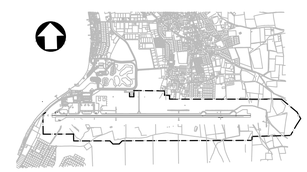
800 x 1300 mm
VA: 96

Dwg No	No	TWY	Phase	Sign Name	Sign Height (mm)	Width 1 (mm)	Width 2 (mm)	TOTAL Width (mm)	TOTAL Width (m)	TOTAL Concrete Base Width (m)	TOTAL Concrete Base Volume	Sign Type
	1	B	BONAIRE	B_001	800	1300		**1300**	**1,3**	**2,2**	**1,4**	**2**
	2	B	BONAIRE	B_002	800	2700		**2700**	**2,7**	**3,6**	**2,3**	**4**
	3	B	BONAIRE	B_003	800	2700		**2700**	**2,7**	**3,6**	**2,3**	**4**
	4	B	BONAIRE	B_004	800	1300		**1300**	**1,3**	**2,2**	**1,4**	**2**
	5	C	BONAIRE	C_001	800	1300		**1300**	**1,3**	**2,2**	**1,4**	**2**
	6	C	BONAIRE	C_002	800	2700		**2700**	**2,7**	**3,6**	**2,3**	**4**
	7	C	BONAIRE	C_003	800	2700		**2700**	**2,7**	**3,6**	**2,3**	**4**
	8	C	BONAIRE	C_004	800	1300		**1300**	**1,3**	**2,2**	**1,4**	**2**
	9	D	BONAIRE	D_001	800	1300		**1300**	**1,3**	**2,2**	**1,4**	**2**
	10	D	BONAIRE	D_002	800	2700		**2700**	**2,7**	**3,6**	**2,3**	**4**
	11	D	BONAIRE	D_003	800	2700		**2700**	**2,7**	**3,6**	**2,3**	**4**
	12	D	BONAIRE	D_004	800	1300		**1300**	**1,3**	**2,2**	**1,4**	**2**
	13	E	BONAIRE	E_001	800	1300		**1300**	**1,3**	**2,2**	**1,4**	**2**
	14	E	BONAIRE	E_002	800	2500		**2500**	**2,5**	**3,4**	**2,2**	**4**
	15	E	BONAIRE	E_003	800	2500		**2500**	**2,5**	**3,4**	**2,2**	**4**
	16	E	BONAIRE	E_004	800	1300		**1300**	**1,3**	**2,2**	**1,4**	**2**

Sign Type	Concrete Base Width (m)
1	0.95 - 1.65
2	1.7 - 2.65
3	2.7 - 3.15
4	3.2 - 4.15
5	4.2 - 5.15
6	5.2 - 6.15
7	6.2 - 7.45
8	>7.5

NOTES:
1. For Airfield Signage Layouts refer to drawings BI2286-NAC-AS-XX-DR-E-EL40-31041 to BI2286-NAC-AS-XX-DR-E-EL40-33042.
2. Sign lengths are indicative, and shall be finalised per selected manufacturer's make and model.
3. Refer to Drawings BI2286-NAC-AS-XX-DR-C-CE35-70002 for Sign Base details.

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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Ministerie van Infrastructuur en Waterstaat

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P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Signage Schedule

PHASE: FD | STATE: Final

DRAFT	KN	CHECK	GJB	APPROVED	HVW
DATE	16-12-2022	SCALE / SHEET	N/A / A1	CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL45-70001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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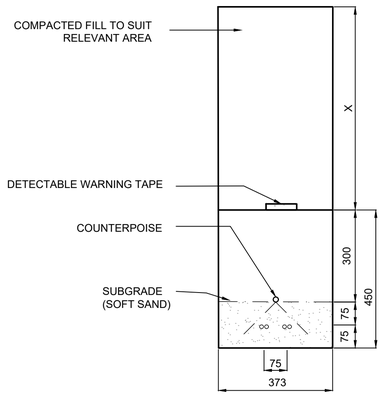
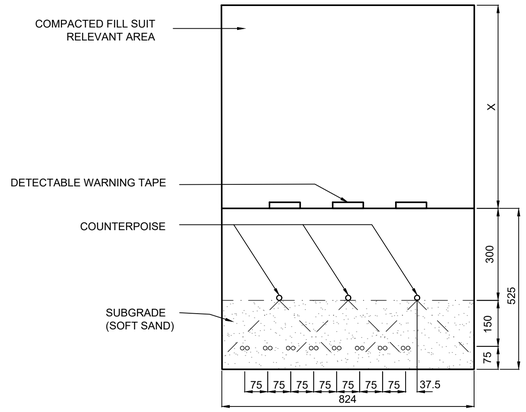
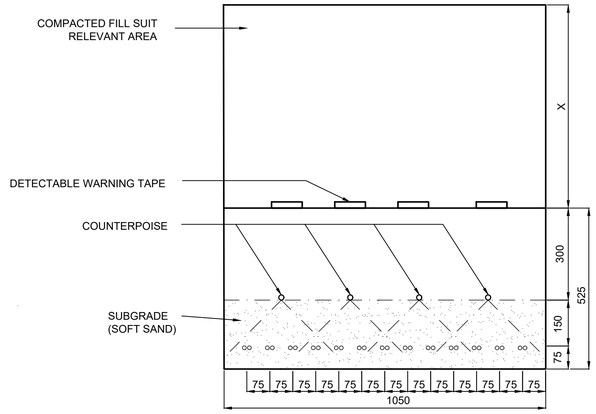
Do Not Scale



TYPICAL DETAIL FOR DIRECT BURIED CABLE
2 CIRCUITS
SCALE 1:10



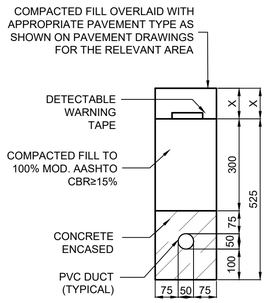
TYPICAL DETAIL FOR DIRECT BURIED CABLE
8 CIRCUITS
SCALE 1:10



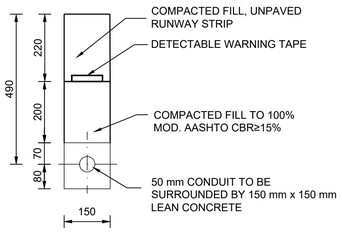
TYPICAL DETAIL FOR DIRECT BURIED CABLE
13 CIRCUITS
SCALE 1:10

NOTES
1. Dimensions shown are in millimeters.
2. Primary cable are buried direct into the earth.
3. "X" indicates the depth of laying warning tapes, at a minimum depth of 200mm below finished grade.
4. Additional counterpoise placement to provide adequate 45 degrees zone of protection above cable.
5. Existing taxiway and runway crossing ductbanks shall be extended to connect with the new location of replacement manholes.
6. Existing secondary ducts shall be extended to connect with the new location of replacement manholes.

0 0.2 0.4 0.6 0.8 1 m

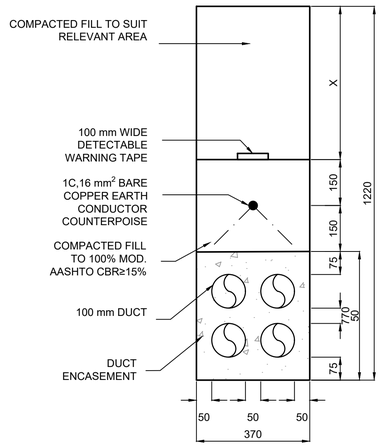


TYPICAL DETAIL FOR DUCT BANK IN CONCRETE ENCASEMENT
1 x 50 mm
SCALE 1:10



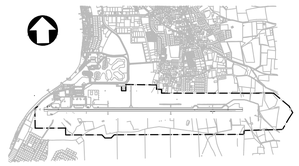
50 mm CONDUIT OUTSIDE PAVEMENT FROM AGL PIT TO SIGNAGE BASE
SCALE 1:10

DETAIL NUMBER OF AGL PRIMARY DUCT CABLES PER 50 mm DUCT
MAXIMUM 8 CABLES x 15 mm DIA.
SCALE 1:5



TYPICAL DETAIL FOR PRIMARY DUCT BANK
4 x 100 mm
SCALE 1:10

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
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4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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Ministerie van Infrastructuur en Waterstaat

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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

AGL Civil Works
Duct Bank
Detail

PHASE: FD
STATE: Final

DRAFT	CHECK	APPROVED
AZ	GJB	HVW
DATE 16-12-2022	SCALE As Shown SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE35-70001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ
REVISION 5

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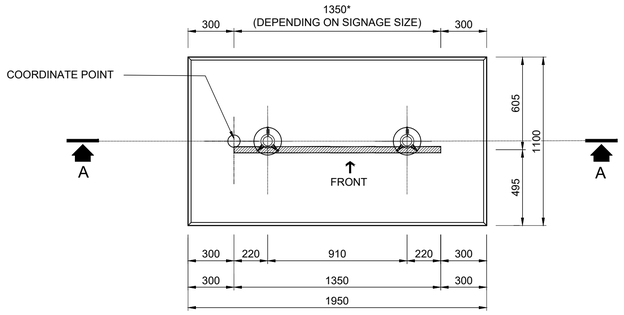
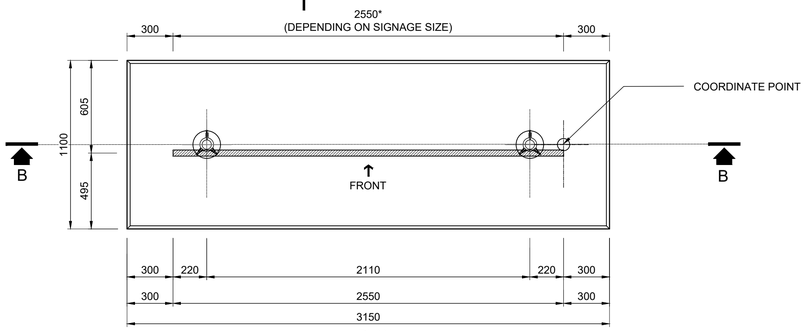
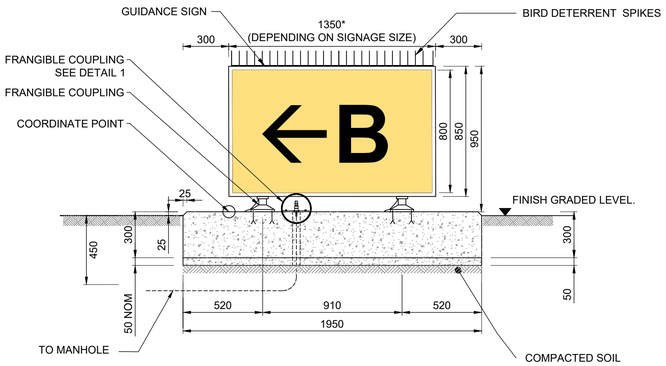
Do Not Scale



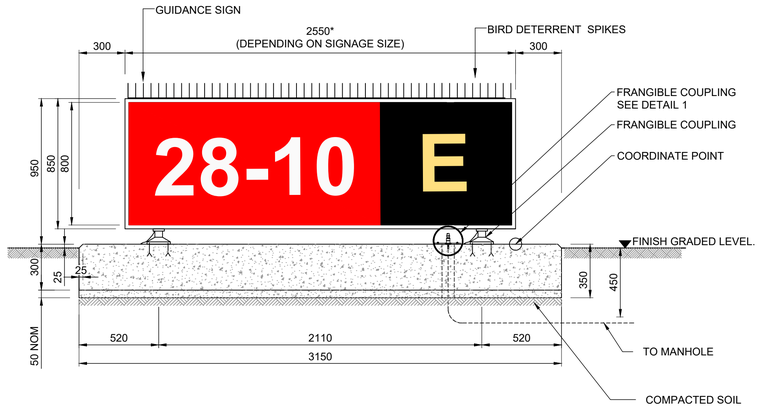
PLAN
SCALE 1:20



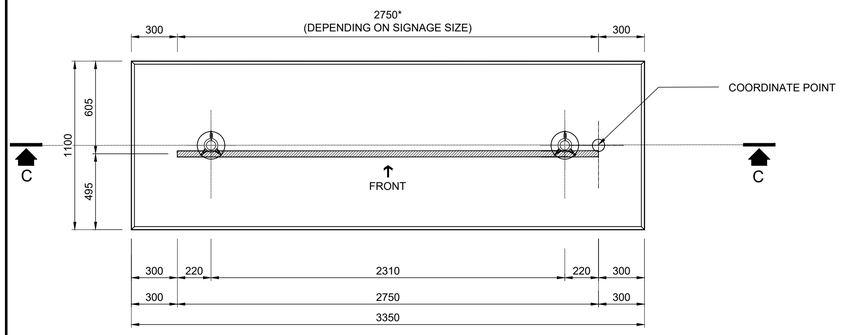
PLAN
SCALE 1:20



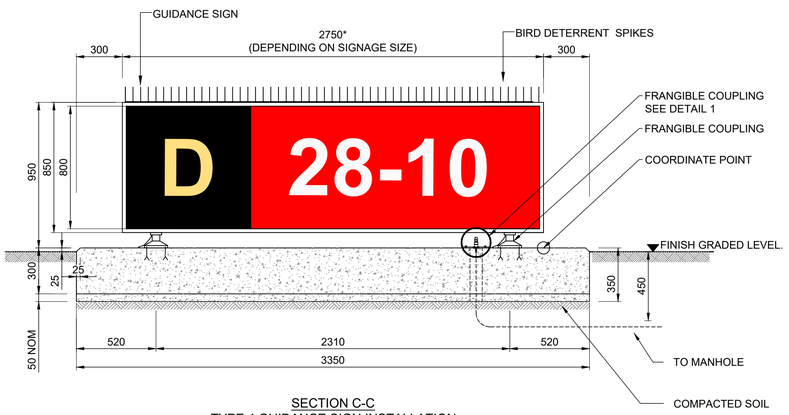
SECTION A-A
TYPE 2 GUIDANCE SIGN INSTALLATION
SCALE 1:20



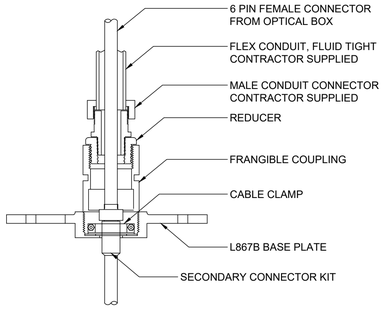
SECTION B-B
TYPE 4 GUIDANCE SIGN INSTALLATION
SCALE 1:20



PLAN
SCALE 1:20



SECTION C-C
TYPE 4 GUIDANCE SIGN INSTALLATION
SCALE 1:20



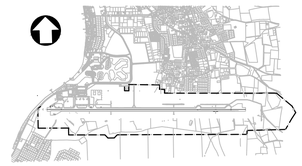
DETAIL 1
FRANGIBLE COUPLING WITH SECONDARY CONNECTION
SCALE N.T.S

Sign Type	Concrete Base Width (m)
1	0.95 - 1.65
2	1.7 - 2.65
3	2.7 - 3.15
4	3.2 - 4.15
5	4.2 - 5.15
6	5.2 - 6.15
7	6.2 - 7.45
8	>7.5

NOTES:
1. All signs must have a tether to secure the sign's frame to the foundation, in the event of a collision which snaps the frangible posts of the sign.
2. Refer to Signage Schedule BI2286-NAC-AS-XX-DR-E-EL45-70001. Signs exceeding the maximum length will be split into Width 1 and Width 2 as shown on the schedule.
3. Where signs are split, if an additional duct exit point is required by the supplier, this will be shown in the shop drawings.
4. Duct entries on the foundations to be indicated on the supplier shop drawings to match the actual sign unit which is offered.
5. All sign fasteners to be stainless steel.
6. * Indicates variable sign width based on the actual sign inscriptions.
7. Locations of signs to be confirmed on site against markings.

0 5 10 15 20 m

KEYPLAN



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www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

AGL Civil Works
Sign Foundation
Detail

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
KN	GJB	HVW
DATE 16-12-2022	SCALE 1:20 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE35-70002
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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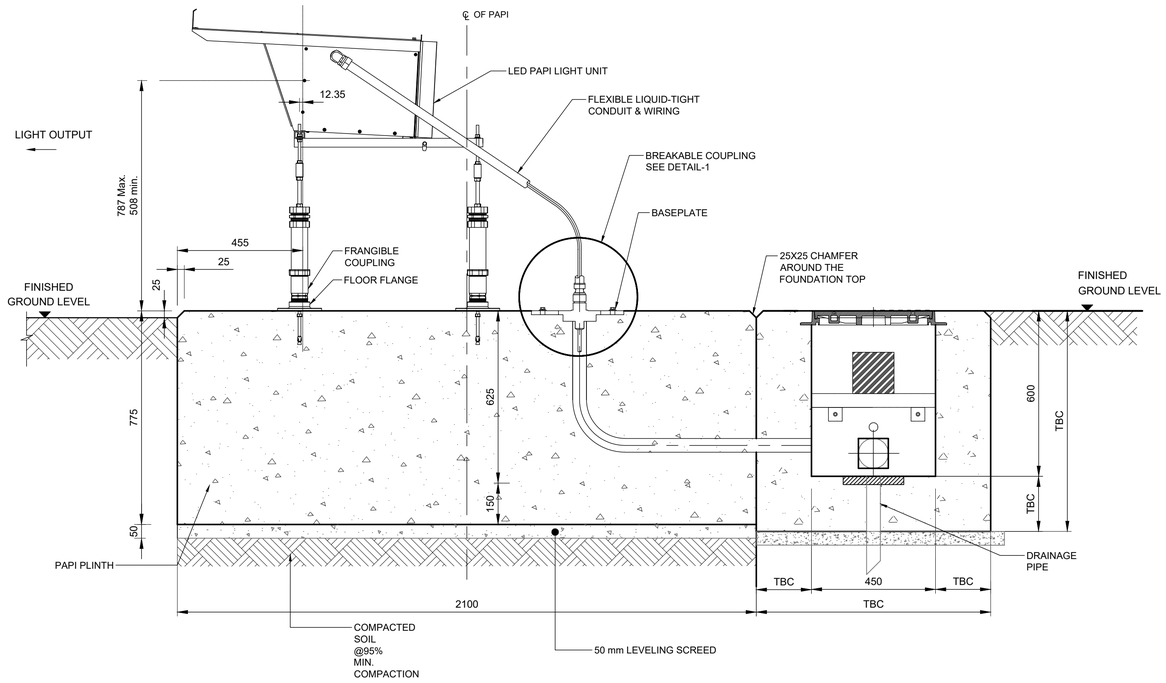
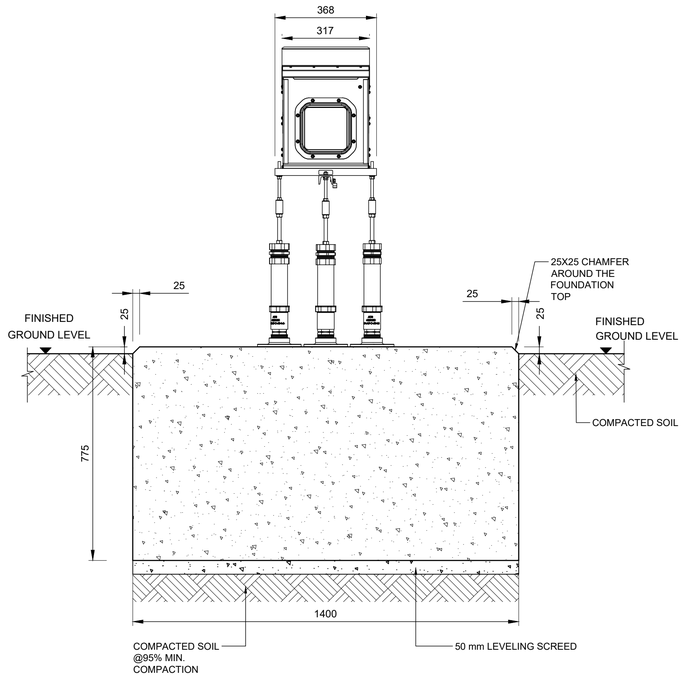
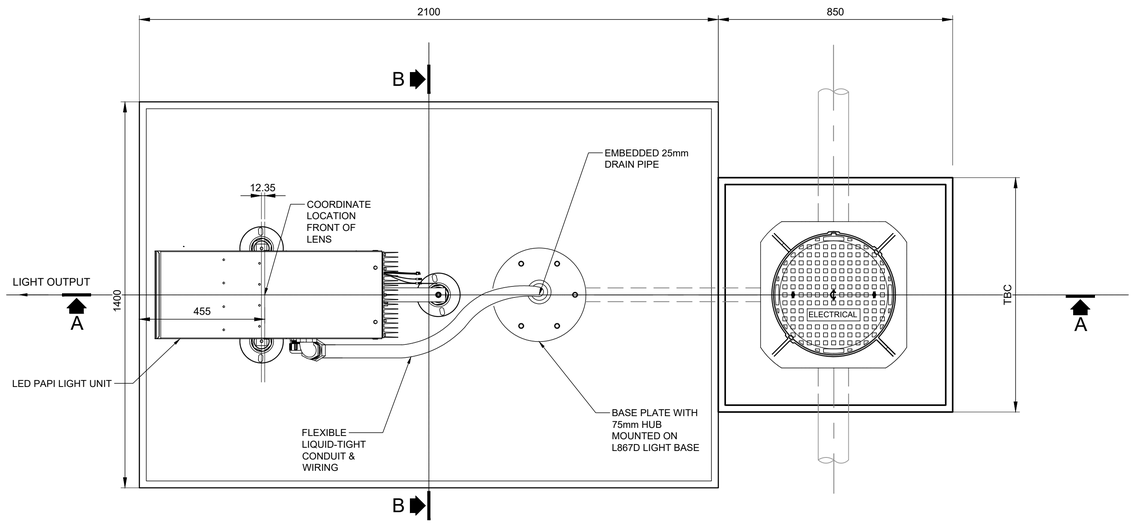
Do Not Scale



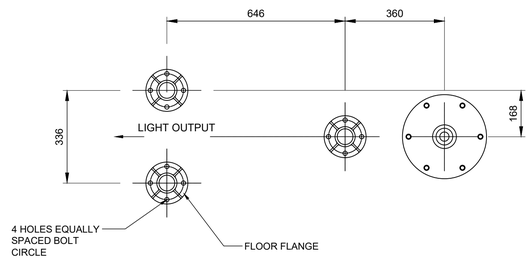
SECTION A-A, THROUGH PAPI
SCALE N.T.S



SECTION B-B, PAPI FRONT
SCALE N.T.S



ENLARGED PAPI PLAN
SCALE N.T.S

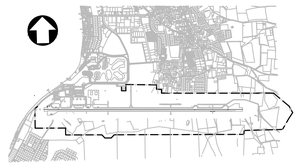


PAPI FOOTPRINT DETAIL
SCALE N.T.S

LEGEND:

NOTES:
1. All dimensions are in mm.
2. All manholes on this drawing indicates the requirements for manhole internal dimension, the final overall construction dimensions shall be indicated in Contractor's shop drawings, taking into structural design to local soil conditions.
3. Manhole covers shall be heavy duty Class D400 to BS EN 124.
4. All above ground corners shall have a 25 mm x 25 mm chamfer.

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
6	19-07-2023	LED PAPI's instead of Halogen PAPI's	HvW
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

AGL Civil Works
PAPI Foundation
Detail - Sheet 1 of 2

PHASE: FD		STATE: Final	
DRAFT LT	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE N.T.S SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE35-70004
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 6

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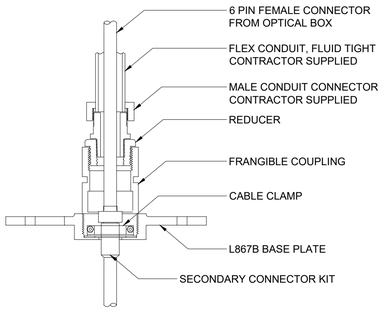
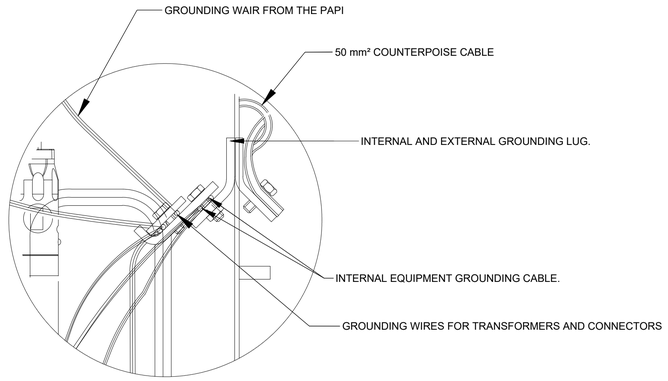
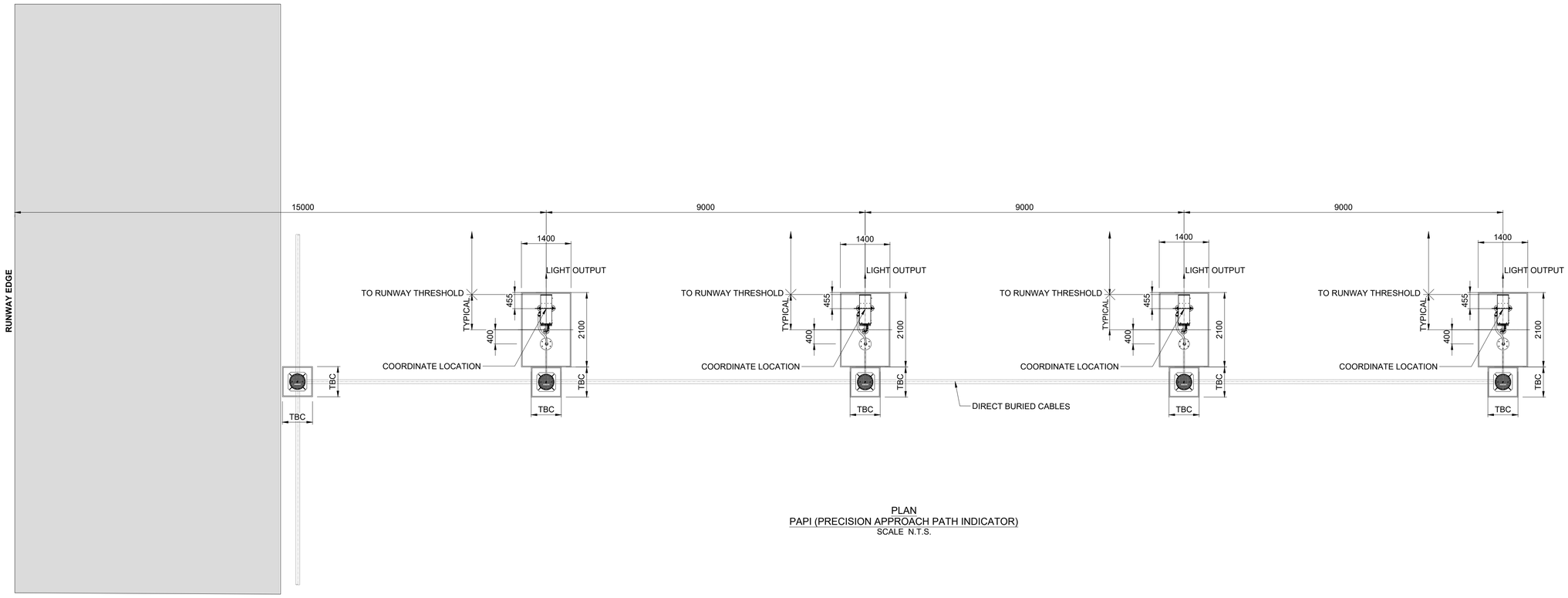


DETAIL 1
FRANGIBLE COUPLING WITH SECONDARY CONNECTION
SCALE N.T.S



DETAIL 2-GROUNDING AND COUNTERPOISE DETAILS
SCALE N.T.S



PLAN
PAPI (PRECISION APPROACH PATH INDICATOR)
SCALE N.T.S.

LEGEND:

NOTES:
1. Dimensions shown are in mm. Do not scale this drawing.
2. This general arrangement drawing assumes that the new PAPI will be located at the exact location of the existing units.
3. Final setting out of the PAPI shall be re-confirmed following detailed siting calculation by the Contractor.

KEYPLAN

REV.	DATE	DESCRIPTION	APPROVED
6	19-07-2023	LED PAPI's instead of Halogen PAPI's	HvW
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PROJECT:
Renovatie AGL Installatie Bonaire
International Airport

PROJECTNo: BI2286

AGL Civil Works
PAPI Foundation
Detail - Sheet 2 of 2

PHASE: PD
STATE: Final

DRAFT	CHECK	APPROVED
LT	GJB	HVW
DATE 16-12-2022	SCALE N.T.S SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE35-70005
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION
6

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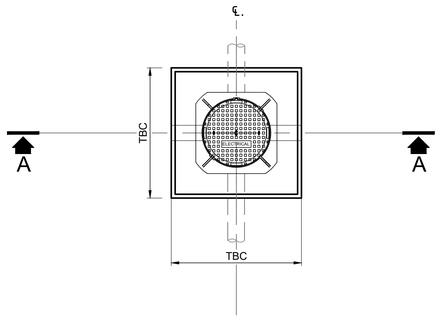
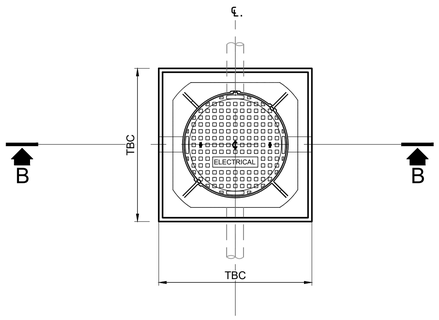
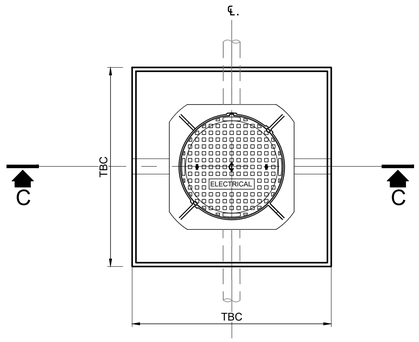


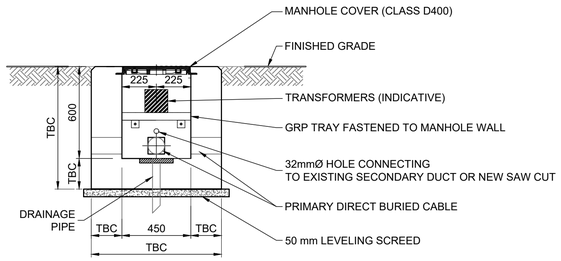
TYPICAL AGL PIT - TYPE 1
D400 COVERS
x1 SIT INSTALLATION
SCALE 1:20



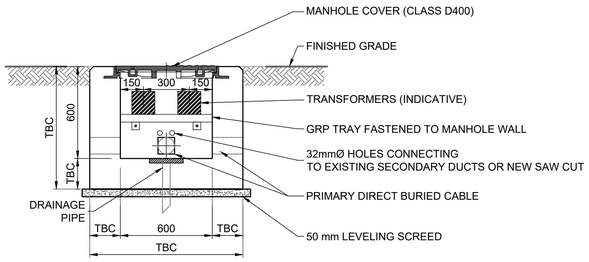
TYPICAL AGL PIT - TYPE 2
D400 COVERS
x2 SIT INSTALLATION
SCALE 1:20



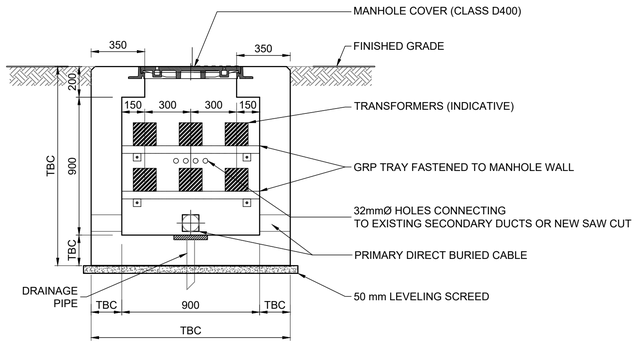
TYPICAL AGL PIT - TYPE 3
D400 COVERS
x6 SIT INSTALLATION
SCALE 1:20



SECTION A-A
TYPICAL AGL PIT - TYPE 1 D400 - CLASS D
SCALE 1:20



SECTION B-B
TYPICAL AGL PIT - TYPE 2 D400 - CLASS D
SCALE 1:20



SECTION C-C
TYPICAL AGL PIT - TYPE 3 D400 - CLASS D
SCALE 1:20

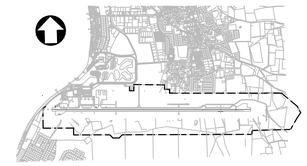
LEGEND:

Abbreviations:
SIT - Series isolation transformer

NOTES:
1. All dimensions are in millimeters.
2. This drawing indicates the requirements for manhole internal dimensions.
3. Depth of AGL pits to be confirmed on site.
4. All illustrations on this drawing indicates the requirements for manhole internal dimension, the final overall construction dimensions shall be indicated in Contractor's shop drawings to local soil conditions.
5. Manhole covers shall be heavy duty Class D400 to BS EN 124.
6. All above ground corners shall have a 25 mm x 25 mm chamfer .

0 5 10 15 20 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
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PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

AGL Civil Works
AGL Pit
Detail

PHASE: FD
STATE: Final

DRAFT	CHECK	APPROVED
DH	GJB	HVW
DATE 16-12-2022	SCALE 1:20 SHEET A1	CONTRACT NO.: 31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE35-70006
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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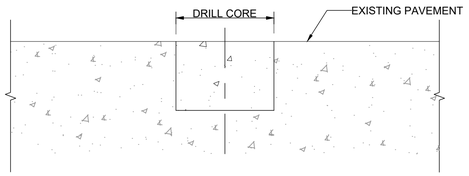
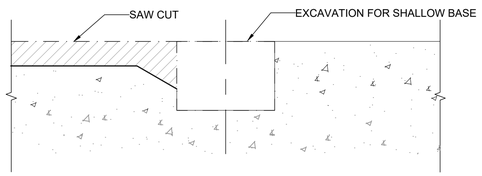


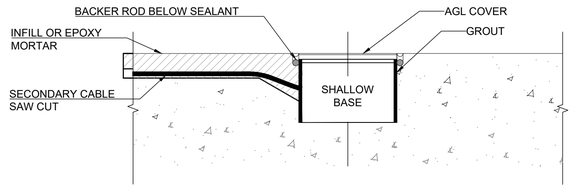
STEP 1 - EXISTING SITUATION

A) CORE DRILL THE EXISTING PAVEMENT AT THE LOCATIONS SHOWN.



STEP 2

A) EXCAVATE THE AREA SHOWN, ENSURING THE EXISTING PAVEMENT IS NOT DAMAGED.
B) SAW CUT FOR SECONDARY CABLES

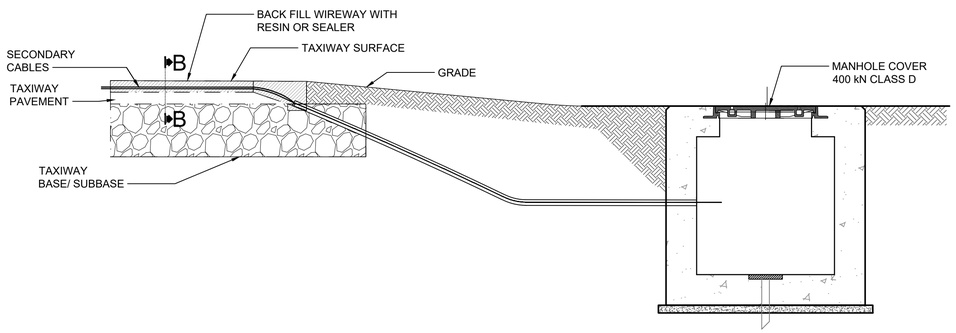


STEP 3

A) INSTALL SHALLOW AND SECONDARY CABLE
B) FILL SAW CUTS.
C) GROUT AROUND BASE
D) INSTALL BACKER ROD AND SEALANT

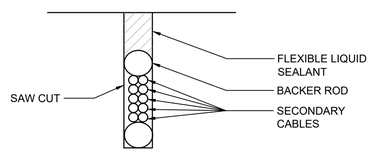
NEW SHALLOW BASE CAN WITH SAW CUT

N.T.S



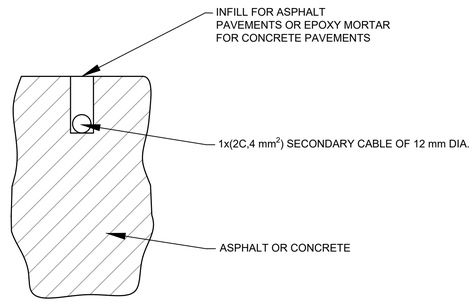
SAW CUT INSTALLATION DETAILS

N.T.S



SECTION B-B (SAW CUT DETAIL)

N.T.S

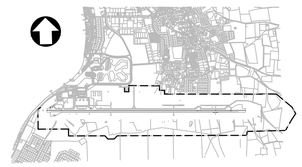


TYPE A-SAW CUT FOR (1) SECONDARY CABLE
SECONDARY CABLE SAW-CUT IN PCC OR AC

N.T.S

NOTES:
1. Existing shallow base including insert light fixture to be replaced with new fittings as indicated on AGL layout drawings.

KEYPLAN



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PROJECT: Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

AGL Civil Works
Typical Installation
Detail

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
LT	GJB	HVW

DATE	SCALE / SHEET	CONTRACT NO.:
16-12-2022	As shown / A1	31096821.0017

DRAWING No. BI2286-NAC-AS-XX-DR-C-CE35-70007
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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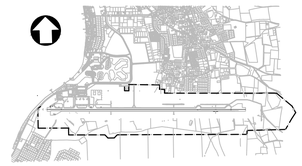
AGL MANHOLE COORDINATES

NUMBER	EASTING (m)	NORTHING (m)	TYPE	EARTHING PIT
MH-1	19798,510	15965,280	1	-
MH-2	19854,530	15946,160	1	-
MH-3	19854,735	15952,863	1	-
MH-4	19854,837	15961,176	1	x
MH-5	19855,159	15966,744	1	-
MH-6	19855,364	15973,447	1	-
MH-7	19918,430	15957,780	1	-
MH-8	19969,250	15860,810	1	-
MH-9	19969,520	15869,480	1	-
MH-10	19970,370	15897,210	1	-
MH-11	19971,200	15924,540	2	x
MH-12	19977,920	15988,040	1	x
MH-13	19978,870	16019,340	2	-
MH-14	20005,870	15859,690	1	-
MH-15	20032,390	16050,390	2	-
MH-16	20039,790	15858,650	1	-
MH-17	20045,120	16028,840	2	-
MH-18	20061,000	15996,260	2	-
MH-19	20062,090	15869,820	2	-
MH-20	20084,330	15881,760	1	-
MH-21	20099,420	15983,910	1	x
MH-22	20106,560	15893,710	2	-
MH-23	20128,800	15905,650	1	-
MH-24	20146,090	15914,940	1	x
MH-25	20154,830	15918,930	3	-
MH-26	20156,650	15982,280	3	-
MH-27	20158,830	15918,720	3	-
MH-28	20160,640	15982,210	3	-
MH-29	20162,500	15987,000	2	-
MH-30	20163,950	16023,170	2	-
MH-31	20192,440	16022,100	2	-
MH-32	20192,920	15981,250	2	-
MH-33	20200,980	15981,110	1	-
MH-34	20217,230	15917,010	1	-
MH-35	20219,420	15980,440	1	-
MH-36	20277,200	15915,180	1	-
MH-37	20279,450	15977,890	2	x
MH-38	20330,110	15979,130	2	-
MH-39	20337,170	15913,340	1	-
MH-40	20352,760	15993,870	2	-
MH-41	20362,070	16016,820	2	-
MH-42	20397,140	15911,500	1	-
MH-43	20408,860	16015,390	2	x
MH-44	20409,390	15985,610	2	-
MH-45	20416,120	15974,400	1	-
MH-46	20427,390	15974,050	1	-
MH-47	20434,160	15910,370	1	x
MH-48	20436,090	15973,790	1	-
MH-49	20457,100	15909,670	1	-
MH-50	20459,290	15973,090	2	-
MH-51	20489,650	15971,710	1	-
MH-52	20517,070	15907,830	1	-
MH-53	20519,260	15971,250	2	-
MH-54	20541,540	15973,480	1	-
MH-55	20546,450	15978,240	1	x
MH-56	20551,590	16011,030	2	-
MH-57	20577,040	15905,990	1	-
MH-58	20594,750	16009,700	2	-
MH-59	20597,280	15872,540	1	-
MH-60	20597,520	15905,570	1	-
MH-61	20597,580	15881,470	1	-
MH-62	20597,910	15890,520	1	-
MH-63	20598,190	15899,470	1	-
MH-64	20604,780	15986,210	2	-
MH-65	20614,390	15972,500	2	-
MH-66	20636,700	15972,500	2	-
MH-67	20637,000	15904,160	1	x
MH-68	20652,530	16010,780	1	-
MH-69	20658,410	16056,860	1	-
MH-70	20658,440	16027,110	1	-
MH-71	20659,990	16086,330	1	-
MH-72	20660,470	16119,010	1	x
MH-73	20696,970	15902,320	1	-
MH-74	20713,860	16009,160	2	-
MH-75	20711,590	16026,740	1	-
MH-76	20715,010	16056,870	2	-
MH-77	20721,910	15982,950	1	x
MH-78	20732,660	16073,990	2	-
MH-79	20753,690	16077,450	1	-
MH-80	20756,940	15900,490	1	-
MH-81	20759,130	15963,910	1	-
MH-82	20785,170	15962,760	1	-
MH-83	20803,360	16077,140	1	x
MH-84	20816,900	15898,650	1	-
MH-85	20819,090	15962,070	1	-
MH-86	20876,860	15896,820	1	x
MH-87	20879,050	15960,240	1	x
MH-88	20940,650	15894,880	1	-
MH-89	20942,590	15958,290	1	-
MH-90	20996,780	15893,150	1	-
MH-91	20998,970	15956,570	1	-
MH-92	21056,780	15891,310	1	-
MH-93	21058,930	15954,740	1	-
MH-94	21116,710	15889,480	1	-
MH-95	21118,890	15952,900	1	-
MH-96	21176,710	15887,650	1	x
MH-97	21178,850	15951,070	1	x
MH-98	21236,620	15885,820	1	-
MH-99	21238,810	15949,240	1	-
MH-100	21265,580	15884,930	1	-
MH-101	21267,520	15948,360	1	-
MH-102	21296,650	15884,020	1	-
MH-103	21298,650	15947,450	1	x
MH-104	21356,610	15882,150	1	-
MH-105	21358,730	15945,570	1	-
MH-106	21416,580	15880,320	1	-

NUMBER	EASTING (m)	NORTHING (m)	TYPE	EARTHING PIT
MH-107	21417.670	16310.390	3	x
MH-108	21417.810	16316.310	3	x
MH-109	21418.690	15943.740	3	x
MH-110	21424.890	16174.410	3	x
MH-111	21428.270	16309.980	3	x
MH-112	21476.550	15878.480	1	x
MH-113	21478.650	15941.910	1	x
MH-114	21536.510	15876.650	1	-
MH-115	21538.610	15940.080	1	-
MH-116	21596.480	15874.820	1	-
MH-117	21598.570	15938.250	1	-
MH-118	21656.450	15872.980	1	x
MH-119	21658.530	15936.410	1	x
MH-120	21716.420	15871.150	1	-
MH-121	21718.490	15934.570	1	-
MH-122	21776.380	15869.320	1	-
MH-123	21778.450	15932.740	1	-
MH-124	21836.350	15867.470	1	x
MH-125	21838.410	15930.910	1	x
MH-126	21896.320	15865.650	1	-
MH-127	21898.370	15929.080	1	-
MH-128	21945.490	15864.130	1	-
MH-129	21947.430	15927.570	1	-
MH-130	22016.250	15861.980	1	-
MH-131	22018.290	15925.410	1	-
MH-132	22076.220	15860.150	1	-
MH-133	22078.250	15923.580	1	-
MH-134	22136.190	15858.310	1	x
MH-135	22138.210	15921.740	1	x
MH-136	22196.150	15856.480	1	-
MH-137	22198.170	15919.910	1	-
MH-138	22256.120	15854.640	1	-
MH-139	22258.140	15918.070	1	-
MH-140	22292.130	15917.050	1	-
MH-141	22311.961	15934.404	2	-
MH-142	22316.090	15852.810	1	-
MH-143	22330.150	15951.350	1	x
MH-144	22362.930	15950.610	1	-
MH-145	22376.060	15850.980	1	-
MH-146	22389.170	15924.210	1	-
MH-147	22390.940	15914.030	2	-
MH-148	22436.020	15849.130	1	x
MH-149	22438.040	15912.560	1	x
MH-150	22495.990	15847.290	1	-
MH-151	22498.010	15910.720	1	-
MH-152	22555.960	15845.450	1	x
MH-153	22557.980	15908.880	1	x
MH-154	22612.590	15810.900	1	-
MH-155	22612.800	15819.750	1	-
MH-156	22613.020	15828.820	1	-
MH-157	22613.330	15837.940	1	-
MH-158	22615.720	15912.850	1	-
MH-159	22615.930	15843.620	2	-
MH-160	22615.980	15921.820	1	-
MH-161	22616.180	15930.910	1	-
MH-162	22616.490	15939.860	1	-
MH-163	22617.940	15907.050	2	-
MH-164	22675.890	15841.770	1	-
MH-165	22677.910	15905.210	1	-
MH-166	22735.860	15839.950	1	x
MH-167	22737.880	15903.370	1	x
MH-168	22757.830	15902.800	1	-
MH-169	22795.830	15838.110	2	-
MH-170	22855.790	15836.280	1	-
MH-171	22872.690	15903.400	2	-
MH-172	22889.970	15912.900	1	-
MH-173	22912.180	15924.840	1	x
MH-174	22915.760	15834.480	1	x
MH-175	22934.400	15936.770	1	-
MH-176	22956.620	15948.710	2	-
MH-177	22975.730	15832.650	1	-
MH-178	22977.560	15959.110	1	-
MH-179	23012.840	15958.030	1	-
MH-180	23040.700	15830.630	3	-
MH-181	23045.000	15830.500	3	x
MH-182	23047.820	15906.930	1	-
MH-183	23048.470	15927.940	1	-
MH-184	23049.110	15948.950	1	-
MH-185	23051.720	15893.790	3	x
MH-186	23056.030	15893.660	3	-

NOTES:
1. All Coordinates according to Local Grid Coordinate System as provided.
2. Coordinate system to be verified on site with the information provided on this drawing. Any discrepancies should be brought to the attention of the Airport Authorities.

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

CLIENT

Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

CONSULTANT

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SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
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TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

AGL Civil Works
Coordinates
Schedule

PHASE: FD | STATE: Final

DRAFT	CHECK	APPROVED
LT	GJB	HVW

DATE	SCALE / SHEET	CONTRACT NO.:
16-12-2022	N/A / A1	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE35-80001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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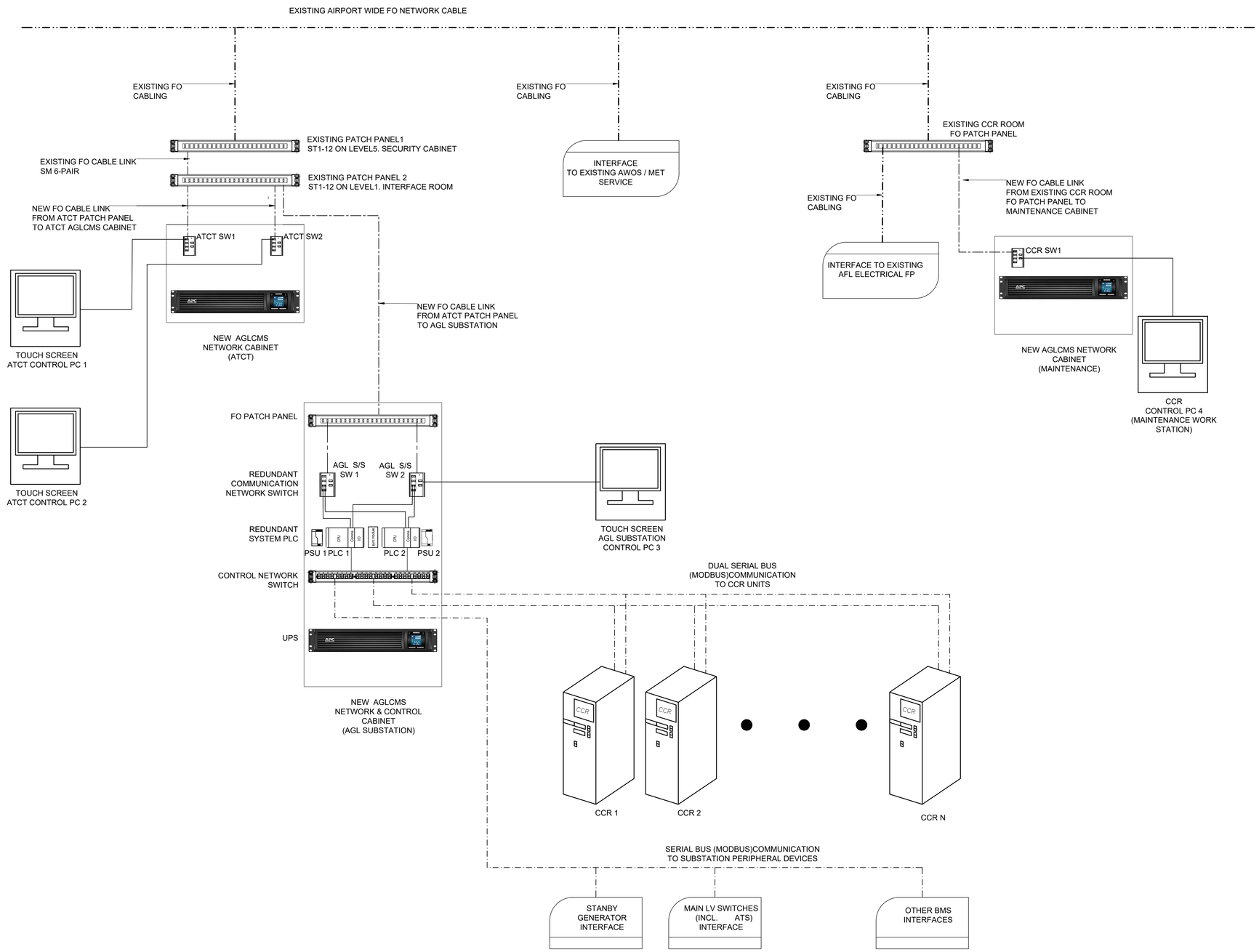
Do Not Scale



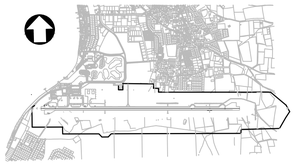
LEGEND:

- EXISTING FIBRE OPTIC (FO) NETWORK CABLING
- NEW FIBRE OPTIC (FO) NETWORK CABLING
- ETHERNET CABLE
- SERIAL BUS (MODBUS) CABLE
- EXISTING SYSTEM TO BE INTERFACED WITH NEW SYSTEM
- NEW SYSTEM INTERFACE
- COMMUNICATION NETWORK SWITCH
- CONTROL NETWORK SWITCH
- PROGRAMMABLE LOGIC SWITCH
- FIBRE OPTIC PATCH PANEL
- INDUSTRIAL PC
- UPS
- CCR

Abbreviations:

AGL	-	Aeronautic Ground Lighting
AFL	-	Apron Flood Lighting
ATCT	-	Air Traffic Control Tower
ATS	-	Automatic Transfer Switch
AWOS	-	Automated Weather Observing System
BMS	-	Building Management System
CCR	-	Constant Current Regulator
CPU	-	Central Processing Unit
FO	-	Fibre Optic
FP	-	Feeder Pillar
LV	-	Low Voltage
MET	-	Meteorology
PC	-	Personal Computer
PLC	-	Programmable Logic Circuit
PSU	-	Power Supply Unit
S/S	-	Substation
SW	-	Switch
UPS	-	Uninterrupted Power Supply
VLAN	-	Virtual Local Area Network

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

CLIENT

Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

CONSULTANT

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SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

AGLCMS
Control & Monitoring

PHASE: FD | STATE: Final

DRAFT	LT	CHECK	GJB	APPROVED	HVW
DATE	16-12-2022	SCALE / SHEET	N.T.S / A1	CONTRACT NO.:	31096821.0017

DRAWING No.
BI2286-NAC-AS-XX-DR-E-EL50-80001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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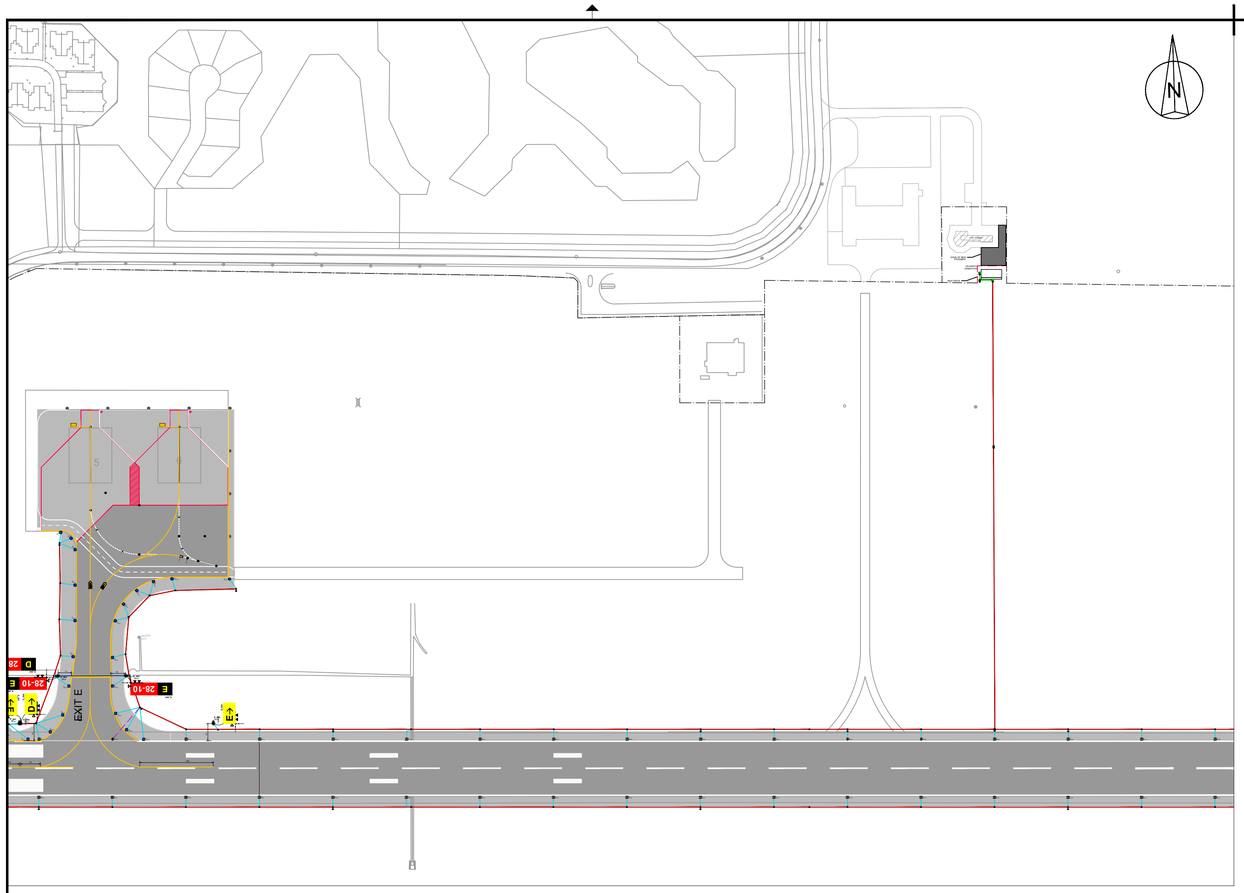
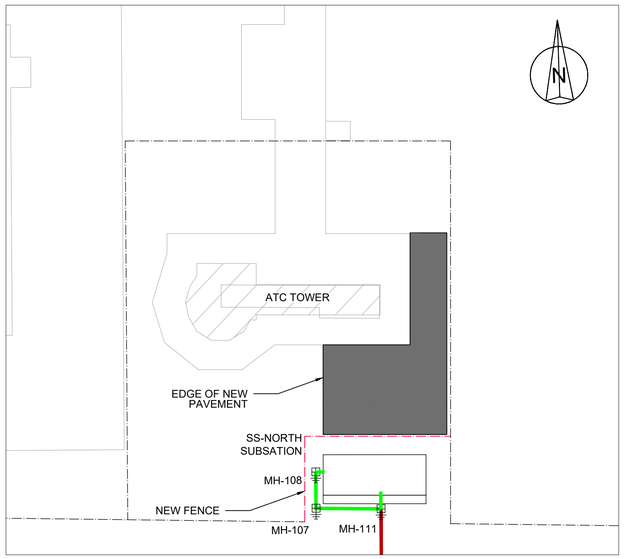
Do Not Scale



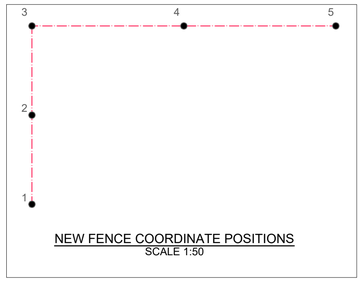
SUBSTATION
SITE LAYOUT PLAN
SCALE 1:2000



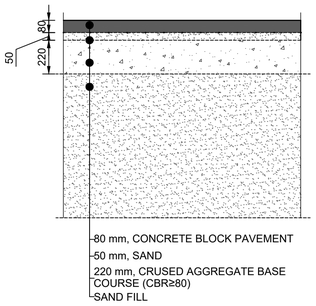
NEW FENCE
SITE LAYOUT PLAN
SCALE 1:500

NEW FENCE COORDINATE TABLE

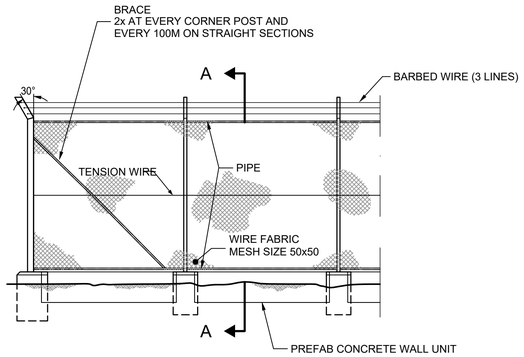
Position	Name	EASTING (m)	NORTHING (m)
1	New Fence	21415.7605	16308.2273
2	New Fence	21415.9739	16315.2052
3	New Fence	21416.1873	16322.1831
4	New Fence	21428.0808	16321.8194
5	New Fence	21439.9743	16321.4557



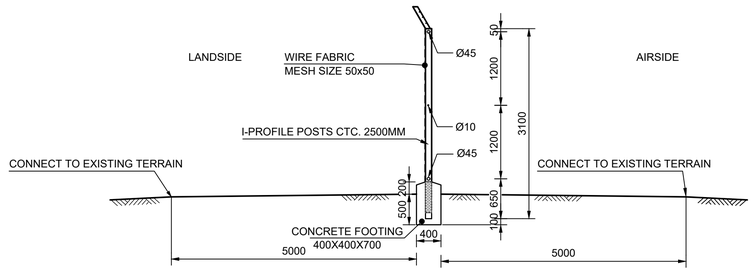
NEW FENCE COORDINATE POSITIONS
SCALE 1:50



PAVEMENT CROSS SECTION
SCALE 1:20



FRONTVIEW CHAIN LINK PERIMETER FENCE
SCALE 1:50



SECTION A-A
SCALE 1:50

LEGEND:

- EXISTING FENCE
- NEW FENCE
- DIRECT BURIED PRIMARY CABLING
- 4 X 100 DUCTS

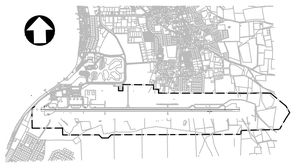
Substation:
SS-North

NOTES

1. For AGL Substation refer to drawings BI2286-NAC-SS-XX-DR-E-EL00-30001, BI2286-NAC-SS-XX-DR-A-AR00-30001 & BI2286-NAC-SS-XX-DR-M-ME00-30001.
2. All Coordinates according to Local Grid Coordinate System as provided.
3. Coordinate system to be verified on site with the information provided on this drawing. Any discrepancies should be brought to the attention of the Airport Authorities.

0 0.4 0.8 1.2 1.6 2 m
0 1 2 3 4 5 m
0 10 20 30 40 50 m
0 50 100 150 200 m

KEYPLAN



REV.	DATE	DESCRIPTION	APPROVED
5	13-04-2023	Final Design for Tendering	HvW
4	16-02-2023	Final Design	HvW
3	16-12-2022	Draft Final Design	HvW

CLIENT
Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

CONSULTANT
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NACO, NETHERLANDS AIRPORT CONSULTANTS
SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

PROJECT:
Renovatie AGL Installatie Bonaire International Airport

PROJECTNo: BI2286

Fencing and Pavement
Layout and details

PHASE: FD		STATE: Final	
DRAFT BA	CHECK GJB	APPROVED HVW	
DATE 16-12-2022	SCALE As shown SHEET A1	CONTRACT NO.: 31096821.0017	

DRAWING No.
BI2286-NAC-AS-XX-DR-C-CE75-30001
PRJ-ORG-PAK-LVL-DOC-DISC-CLASS-SEQ

REVISION 5

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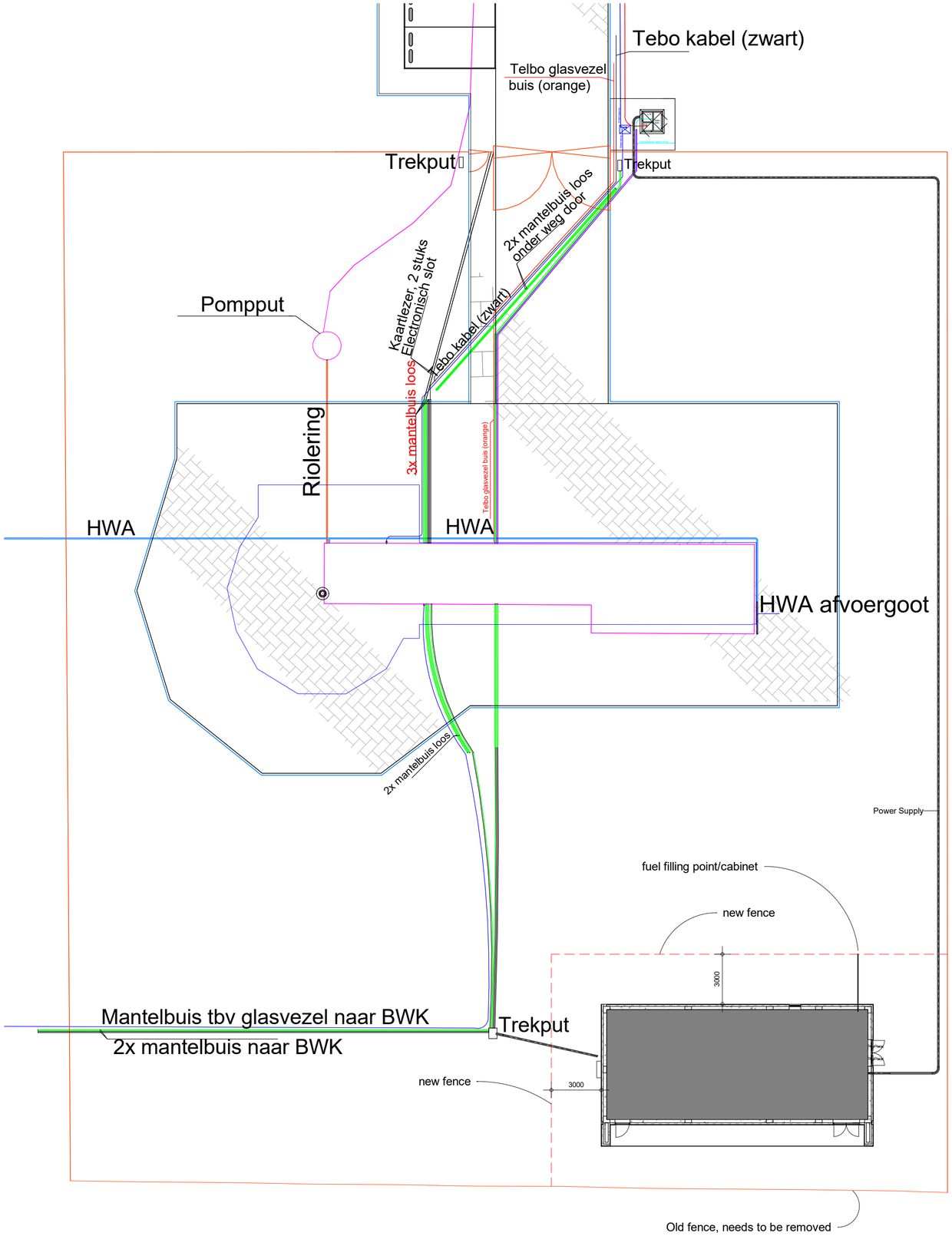
Do Not Scale



KEYPLAN

Nr.	Date	Issued by	Issued to	Description
5	13-04-2023	NACO	RWS	Final Design for Tendering
4	16-02-2023	NACO	RWS	Final Design
3	16-12-2022	NACO	RWS	Draft Final Design

Designed By	Drawn By	Checked By	Approved By
TT	EB	CvB	HvW

Client
Rijkswaterstaat

Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

Project Name
Renovation AGL installation
Bonaire International Airport

Subject
AGL Substation
LV Cable routing, duct & pits
Layout

Consultant:

NACO
a company of Royal HaskoningDHV

NACO, NETHERLANDS AIRPORT CONSULTANTS SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

Role	Electrical		
Phase	FD		
Scale	1 : 200	State	Final Design
Proj.Nr.	BI2286	Suitability	P.Size A2
Drw.Nr.	BI2286-NAC-AS-XX-DR-C-AR10-30001		

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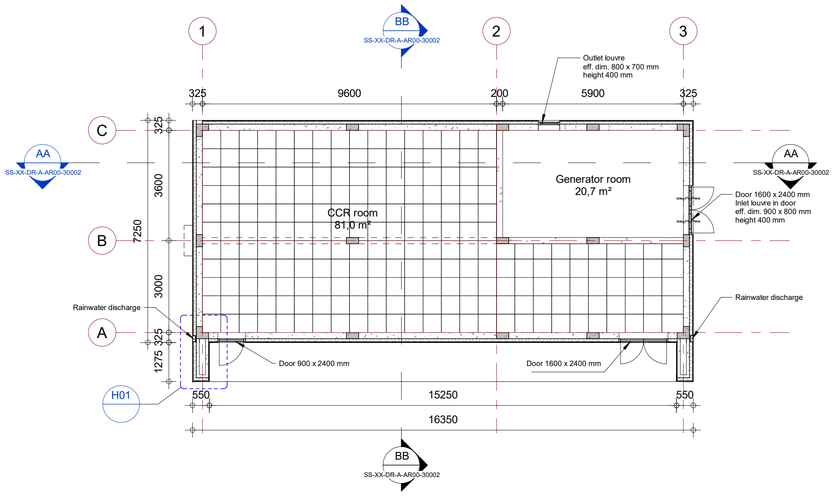
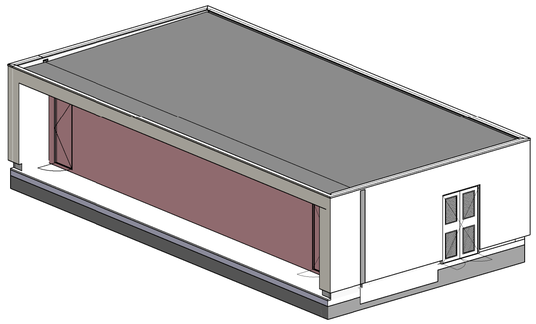
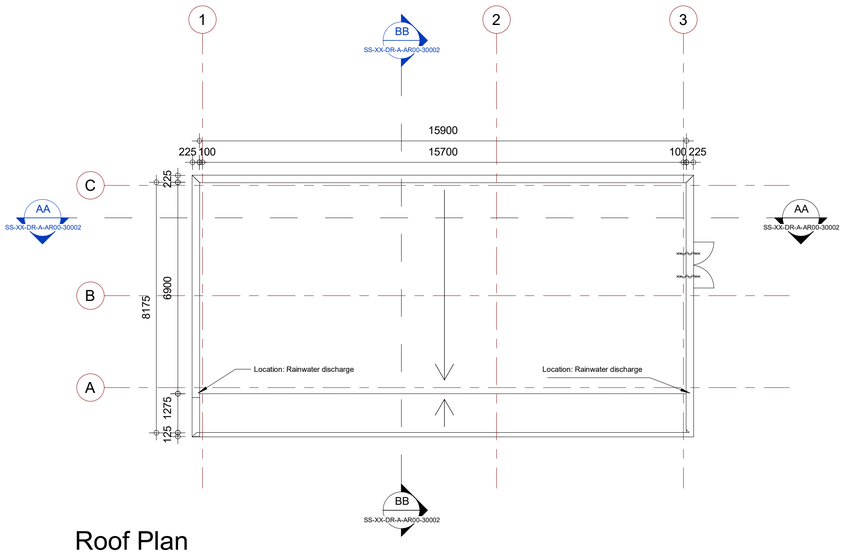


Ground Floor Plan

1 : 100

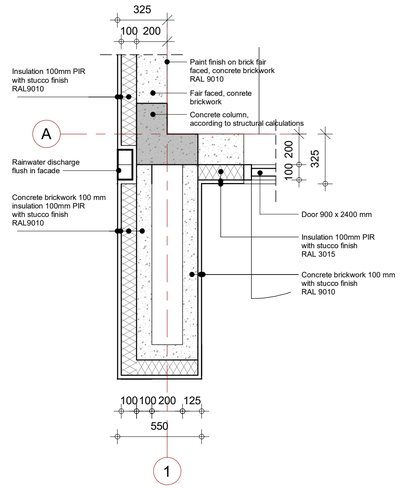


3D



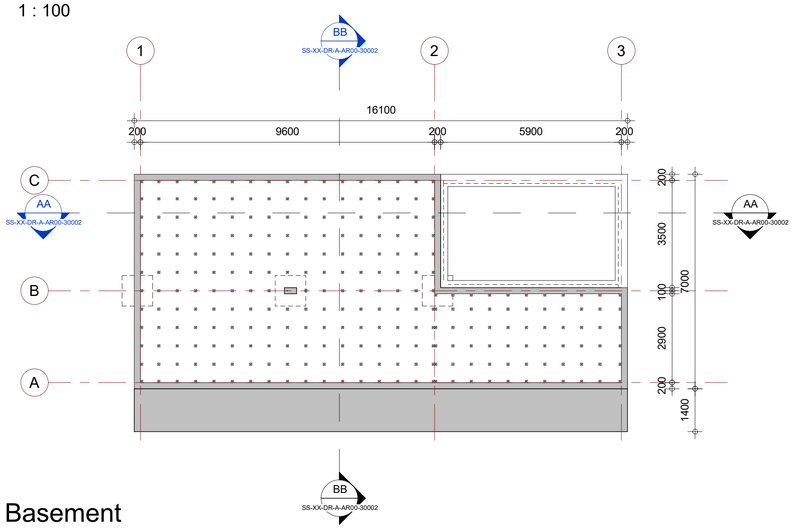
Roof Plan

1 : 100



Detail H01

1 : 20



Basement

1 : 100

Legend

Section patterns:

- Concrete brickwork
- Concrete
- Insulation
- RAL 3015
- RAL 9010
- Terain
- Terrain Section

NOTES

KEYPLAN

Nr.	Date	Issued by	Issued to	Description
5	13-04-2023	NACO	RWS	Final Design for Tendering
4	16-02-2023	NACO	RWS	Final Design
3	16-12-2022	NACO	RWS	Draft Final Design

Designed By	Drawn By	Checked By	Approved By
RM	JT	RM	HvW

Client
Rijkswaterstaat

Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

Project Name
Renovation AGL installation
Bonaire International Airport

Subject
AGL substation
Architectural
Floor plans, 3D views and Details

Consultant:

NACO
a company of Royal HaskoningDHV

NACO, NETHERLANDS AIRPORT CONSULTANTS SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
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Role	Architecture		
Phase	FD		
Scale	As shown	State	Draft
Proj.Nr.	BI2286	Suitability S0	P.Size A1
Drw.Nr.	BI2286-NAC-SS-XX-DR-A-AR00-30001		

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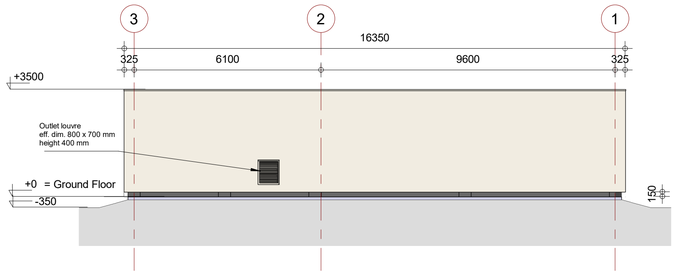

North Facade

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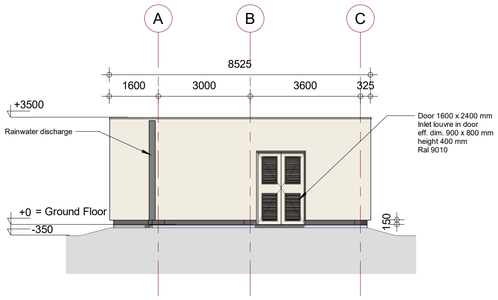

East Facade

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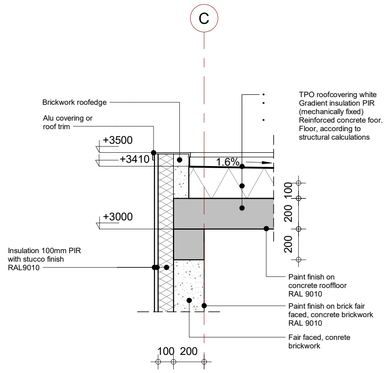
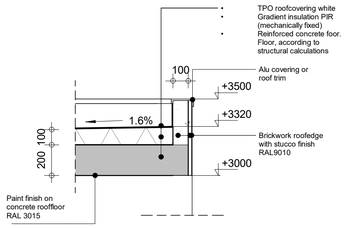


Detail V01

1 : 20



Detail V02

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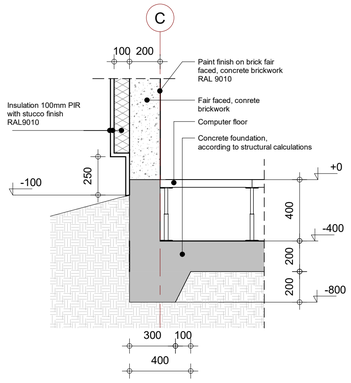

Detail V03

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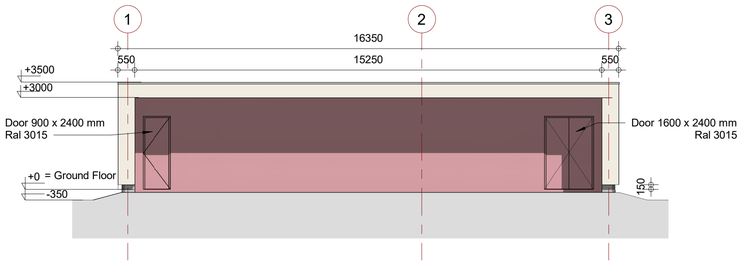

South Facade

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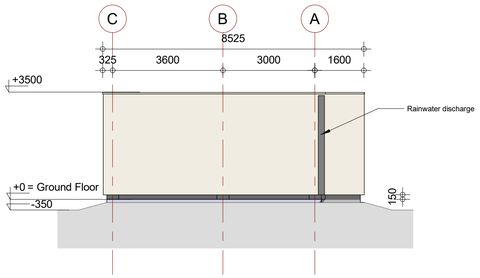
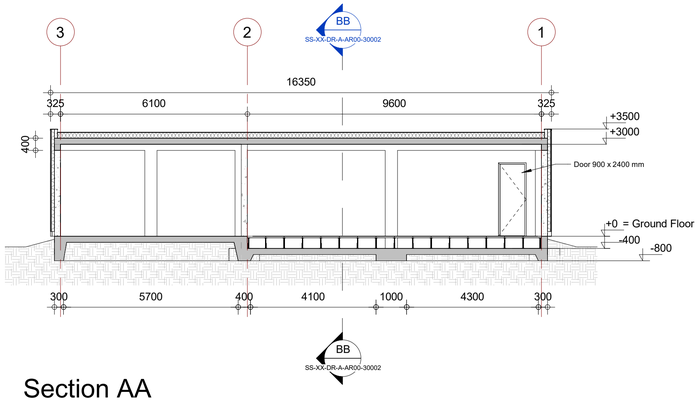


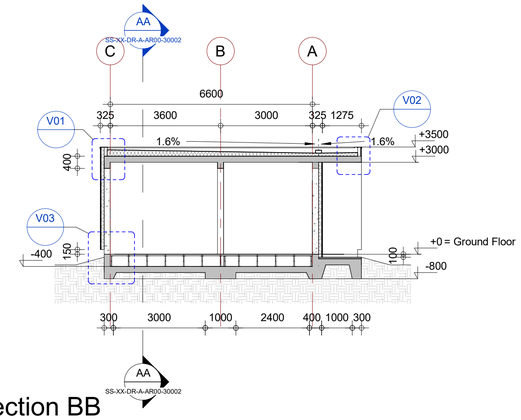
West Facade

1 : 100



Section AA

1 : 100



Section BB

1 : 100

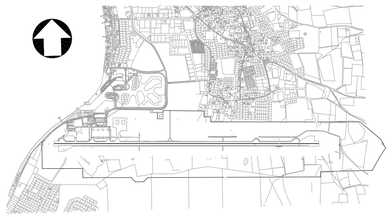
Legend

Section patterns:

- Concrete brickwork
- Concrete
- Insulation
- RAL 3015
- RAL 9010
- Terain
- Terrain Section

NOTES

KEYPLAN



Nr.	Date	Issued by	Issued to	Description
5	13-04-2023	NACO	RWS	Final Design for Tendering
4	16-02-2023	NACO	RWS	Final Design
3	16-12-2022	NACO	RWS	Draft Final Design

Designed By	Drawn By	Checked By	Approved By
RM	JT	RM	HvW

Client
Rijkswaterstaat

Project Name
Renovation AGL installation
Bonaire International Airport

Subject
AGL Substation
Architectural
Facades, Sections and Details

Consultant:
NACO, NETHERLANDS AIRPORT CONSULTANTS SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

Role	Architecture		
Phase	FD		
Scale	As shown	State	Draft
Proj.Nr.	BI2286	Suitability S0	P.Size A1
Drw.Nr.	BI2286-NAC-SS-XX-DR-A-AR00-30002		

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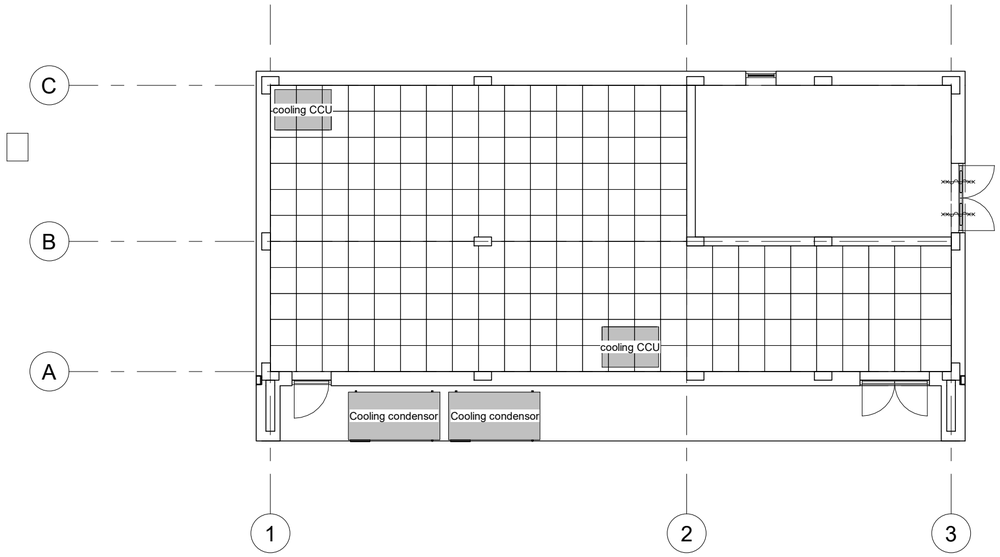

KEYPLAN

Nr.	Date	Issued by	Issued to	Description
5	13-04-2023	NACO	RWS	Final Design for Tendering
4	16-02-2023	NACO	RWS	Final Design
3	16-12-2022	NACO	RWS	Draft Final Design

Designed By	Drawn By	Checked By	Approved By
BK	EB	CvB	HvW

Client
Rijkswaterstaat

Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

Project Name
Renovation AGL installation
Bonaire International Airport

Subject
AGL Substation
Mechanical systems
Layout

Consultant:

NACO
a company of Royal HaskoningDHV

NACO, NETHERLANDS AIRPORT CONSULTANTS SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl

Role	Mechanical		
Phase	FD		
Scale	1 : 100	State	Final Design
Proj.Nr.	BI2286	Suitability	P.Size A2
Drw.Nr.	BI2286-NAC-SS-XX-DR-M-ME00-30001		

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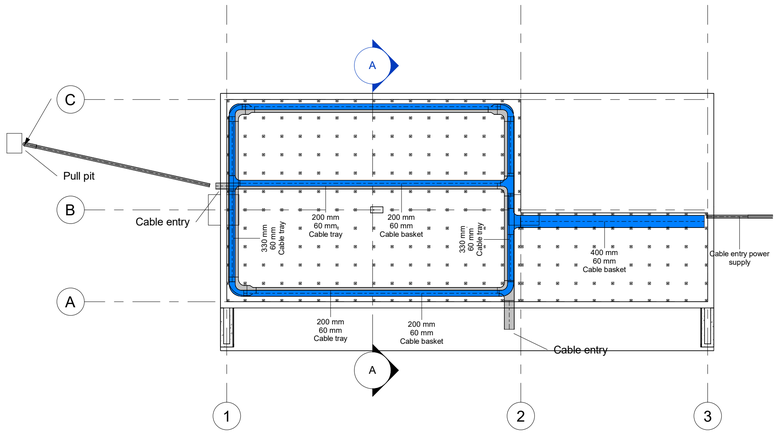
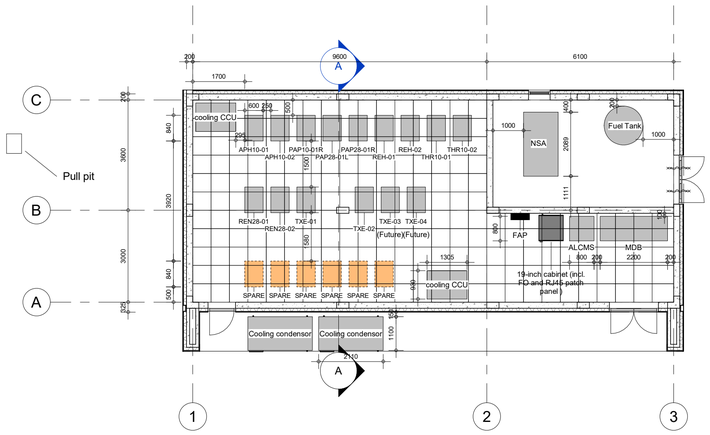
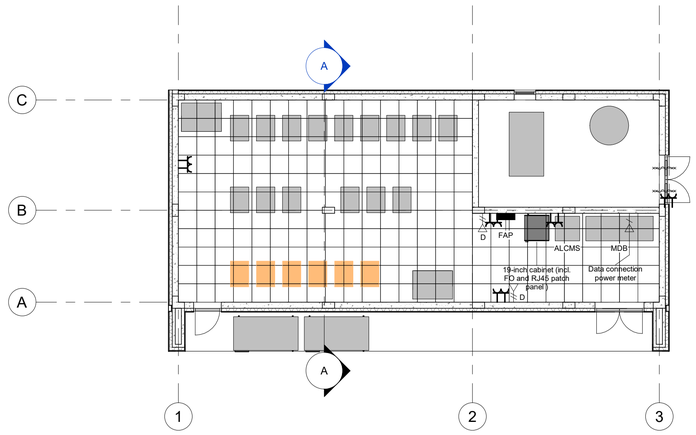


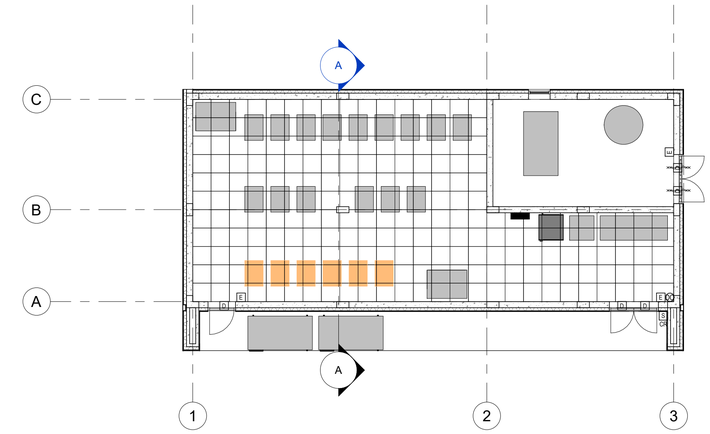
Cable trays in raised floor



Layout



230V sockets / Data



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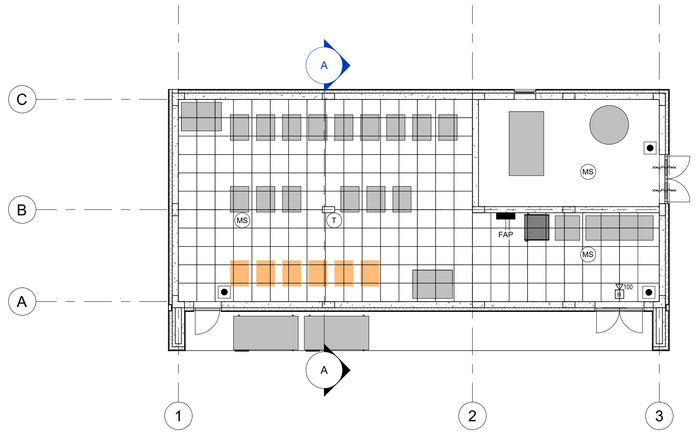


Fire detection system

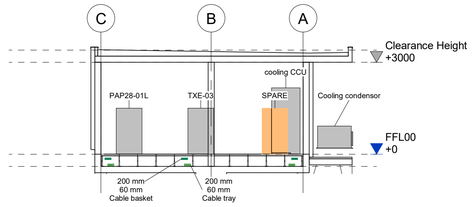
Legend Cable Trays	
	Description
	Cable tray - HV cables
	Cable basket (with separator) for power and communication systems

Legend power sockets	
	Description
	230V recessed double wall socket

Data Device Schedule	
	Description
	Data connection power meter
	Data rack
	Recessed double data outlet RJ45 CAT6-cable

Security Device Schedule	
	Description
CR S	Card Reader
D	Door contact
DC	Door controller
E	Emergency puch button

Fire Alarm Device Schedule	
	Description
60 H	Local Horn with Flash Light (Office, 60dB)
	Manual Fire Alarm
MS	MultiSensor (Smoke, Heat detector)
T	Temperature sensor



A-A

KEYPLAN

Nr.	Date	Issued by	Issued to	Description
5	13-04-2023	NACO	RWS	Final Design for Tendering
4	16-02-2023	NACO	RWS	Final Design
3	16-12-2022	NACO	RWS	Draft Final Design

Designed By	Drawn By	Checked By	Approved By
TT	EB	CvB	HvW

Client
Rijkswaterstaat

Project Name
Renovation AGL installation
Bonaire International Airport

Subject
AGL Substation
Electrical systems
Layout

Consultant:
NACO, NETHERLANDS AIRPORT CONSULTANTS SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
P.O.BOX 93056, 2509 AB 's-GRAVENHAGE
TEL.: +31 88 348 13 00
www.naco.nl
NACO a company of Royal HaskoningDHV

Role	Electrical		
Phase	FD		
Scale	1 : 100	State	Final Design
Proj.Nr.	BI2286	Suitability	P.Size A1
Drw.Nr.	BI2286-NAC-SS-XX-DR-E-EL00-30001		

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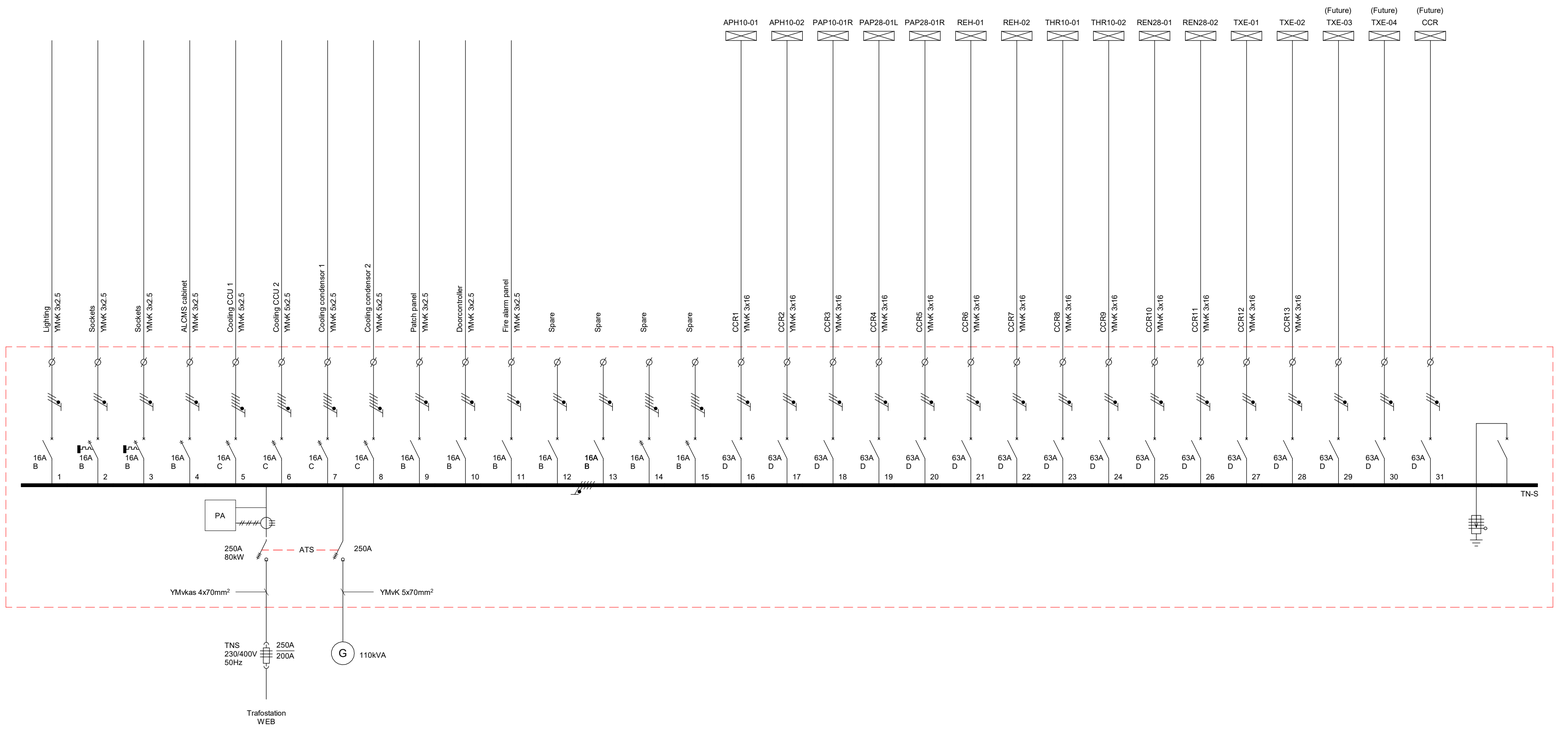

Detail Item Schedule EP

Type Image	Description
	Surge protector 3P
	Sensor 3P
	Rail
	Load breaker 4P
	Generaror
	Fuse 3P withdrawable
	Enclosures
	Conductor neutral
	Conductor earth
	Conductor 1P
	Clamp
	Circuit breaker 3P
	Circuit breaker 2P earth leakage
	Circuit breaker 2P
	Circuit breaker

Nr.	Date	Issued by	Issued to	Description
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4	16-02-2023	NACO	RWS	Final Design
3	16-12-2022	NACO	RWS	Draft Final Design

Designed By	Drawn By	Checked By	Approved By
TT	EB	CvB	HvW

Client
Rijkswaterstaat

Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

Project Name
Renovation AGL installation
Bonaire International Airport

Subject
AGL Substation
Diagram
Main Distribution Board

Consultant:
NACO, NETHERLANDS AIRPORT CONSULTANTS SCHENKKADE 49, 2595 AR 's-GRAVENHAGE
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Role	Electrical		
Phase	FD		
Scale	n.t.s.	State	Final Design
Proj.Nr.	BI2286	Suitability	P.Size A1
Drw.Nr.	BI2286-NAC-SS-XX-DR-E-EL10-80001		

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