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File No. ATM-19013(19)/1/2023-ATM

Following supplement is issued for information, guidance and necessary action.

sd/-

संजीव कुमार

SANJEEV KUMAR

अध्यक्ष/CHAIRMAN

भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

[EFFECTIVE DATE: 23 FEB 2023]

CLOSURE OF RUNWAY 09-27 FOR WORK ACTIVITIES ON
RUNWAY AND CONSTRUCTION WORKS WITHIN
RUNWAY STRIP AT CHAUDHARY CHARAN SINGH
INTERNATIONAL AIRPORT, LUCKNOW (VILK)

[FROM 23 FEB 2023 TO 16 OCT 2023]

1. INTRODUCTION

The purpose of this AIP Supplement is to inform the stakeholders (Airlines, ANSP, regulator etc.) likely to use the information, about the schedule of work activities that scheduled to be carried out at Chaudhary Charan Singh International Airport, Lucknow from 23rd February 2023 to 16th October 2023.

- 1.1** All works / construction work activities planned on runway, on portion of runway strip within 90m from centerline of runway and Runway End Safety Area (RESA) shall be carried out during time limited closure of Runway 09-27, the details of work activities have been enumerated in annexure 1.

- 1.1.1** Runway 09-27 is not available for landing and take-off from 23rd February 2023 to 11th July 2023, daily, between 1600 UTC to 0030 UTC.

- 1.1.2** Runway shall be available for operations on 01st May 2023 (Monday), on the occasion of Labour Day.

- 1.1.3 Runway 09/27 shall not be available for emergency landings and diversions during the closure. Airlines are advised to include this in flight planning accordingly.
- 1.2 All works / construction activities, within runway strip between 90m up to 140m from centerline of runway 09/27 has been enumerated in annexure 2.
- 1.2.1 The work activities planned between 90m up to 140m from centerline of runway 09/27 will be carried out on watch and ward basis, H24, from 1600 UTC of 23rd February 2023 up to 1230 UTC of 16th October 2023.
- 1.3 Annexure I – Work activities on runway, runway strip (up to 90m from centerline of runway 09-27) and Runway End Safety Area (RESA),**
- 1.3.1 Refer part -1 for construction of portion of 02 new (entry / exit) taxiways (proposed designation P1 and P3) from edge of the runway up to 90m from runway centerline towards North located at the beginning of runway 09.
- 1.3.2 Refer part 2 for construction of 01 new (entry / exit) taxiway (from edge of the runway up to 90m from runway centerline towards North) located East of existing taxiway A (proposed designation P6).
- 1.3.3 Refer part 3 for upgradation and modification of Runway End Safety Area (RESA) for runway 09 and runway 27.
- 1.3.4 Refer part 4 for construction of additional full-strength pavement for turn pad for runway 09 and runway 27.
- 1.3.5 Refer part 5 for refurbishment of portion of taxiway A (from edge of the runway up to 90m from runway centerline towards North).
- 1.3.6 Refer part 6 for aeronautical ground lights (AGL) related works such as:
- i. Construction of primary and associated duct banks
 - ii. Shifting of runway edge lights within 3m from edge of the runway.
 - iii. Construction of AGL chambers / pits.
- 1.4 Annexure-II: Work activities on portion of runway strip (between 90m up to 140m from centerline of runway 09-27) will be carried out on watch and ward basis, H24, from 1600 UTC of 23rd February 2023 up to 1230 UTC of 16th October 2023.**
- 1.4.1 Construction of portion of 03 new taxiways and refurbishment of taxiway A at North of runway 09-27 for portion of taxiway from 90m to 140m from centerline of runway.
- 1.4.2 Refer part 1 for construction of 02 no. of entry / exit taxiways (proposed designation P1 and P3) located at the beginning of runway 09 for portion of taxiways from 90m to

140m North of centerline of runway 09-27,

- 1.4.3 Refer part 2 for construction of 01 new link taxiway located East of existing taxiway A (proposed designation P6) for portion of taxiway from 90m to 140m North of centerline of runway 09-27.
- 1.4.4 Refer Part 3 for refurbishment of portion of taxiway A from 90m to 140m towards North of centerline runway 09-27.
2. Work area will be marked and lighted by red obstruction lights to delineate from work areas from other apron areas for easy identification by airside users and pilots.
3. Any change to the contents of this AIP Supplement will be notified through a NOTAM.

**CLOSURE OF RUNWAY 09-27 FOR WORK ACTIVITIES ON RUNWAY,
PORTION OF RUNWAY STRIP UP TO 90M FROM CENTERLINE AND
ON RUNWAY END SAFETY AREA (RESA)
(FROM 23 FEB 2023 UP TO 11 JULY 2023)**

1. Runway 09-27 not available for landing and takeoff from 23rd February 2023 to 11th July 2023 (except on 1st May 2023 due to Labour Day) daily, between **1600 UTC to 0030 UTC** for work activities on runway, on portion of runway strip up to 90m from centerline and Runway End Safety Area (RESA) for runway 09-27.
- 1.1 **Part 1:** Construction of portion of 02 no. of entry / exit taxiways (proposed designation P1 and P3) from edge of runway up to 90m from centerline towards North of runway for taxiway located at beginning of runway 09.
 - 1.1.1 Work shall be carried out during time limited closure of runway 09-27 (Refer Sl. No 1 above).
 - 1.1.2 Location of work area is from edge of the runway and towards North. Distance of the work area from edge of the runway up to 90m from centerline of runway.
 - 1.1.3 Level difference between existing and newly laid surface will be backfilled by laying of sandbags up to top level.
 - 1.1.4 Pilot (s) to exercise caution during landing and take-off.
 - 1.1.5 Work area shall be marked and lighted by placing red obstruction light for easy identification.
 - 1.1.6 Refer chart-1 for location of work area for construction of 02 entry / exit taxiways at the beginning of runway 09.
- 1.2 **Part 2:** Construction of portion of link taxiway (proposed designation P6) from edge of the runway up to 90m from centerline of runway towards North for portion of taxiway located at a distance of 556m East of taxiway A.
 - 1.2.1 Work shall be carried out during time limited closure of runway 09-27 (Refer Sl No 1 above).
 - 1.2.2 Location of work area is from edge of the runway and towards North. Distance of the work area from edge of the runway up to 90m from centerline of runway.
 - 1.2.3 Level difference between existing and newly laid surface will be backfilled by laying of sandbags up to top level.
 - 1.2.4 Pilot to exercise caution while landing and take-off.

- 1.2.5** Work area shall be marked and lighted by placing red obstruction light for easy identification.
- 1.2.6** Refer Chart - 2 for location of work area for construction of entry / exit (link taxiway) (proposed designation P6) located at a distance of 556m East of taxiway A.
- 1.3 Part 3:** Upgradation and extension of Runway End Safety Area (RESA) for runway 09 and runway 27.
- 1.3.1** Work for upgradation on Runway End Safety Area (RESA) of runway 09 and runway 27 shall only be carried out during time limited closure of runway 09-27 (Refer SI No 1 above).
- 1.3.2** Level difference between existing top surface of RESA and excavated surface will be backfilled by laying of sandbags.
- 1.3.3** Upgraded / newly extended portion of RESA shall meet the compliance requirements of DGCA CAR.
- ❖ Refer Chart - 3 and Chart - 4 for location of work area of RESA of runway 09 and runway 27
- 1.4 Part 4:** Upgradation and extension full strength of runway turn pads for runway 09 and runway 27 to address non-compliance.
- 1.4.1** Work on runway turn pad of runway 09 and runway 27 shall only be carried out during time limited closure of runway 09-27 (Refer SI. No 1 above).
- 1.4.2** Approximately 150mm level difference shall exist during construction of the pavement.
- 1.4.3** Compliant slope for ramp is provided between the existing runway turn pad and newly constructed surface of shoulder of runway turn pads.
- 1.4.4** No construction work is planned on existing full-strength pavement of runway turn pad, works for extension of runway turn pads will be carried out on shoulders of runway turn pad and beyond.
- 1.4.5** Pilot(s) are advised to exercise caution and ensure enhanced situational awareness while executing a 180 degree turn on runway turn pads, due to availability step down of 150-200mm adjacent to full strength pavement.
- 1.4.6** Unserviceable / newly constructed portion shall be marked and lighted by placing red obstruction lights to delineate from associated serviceable area of runway turn pads.
- ❖ **Refer Chart - 3 and Chart - 4 for location of work area on runway turn pads of runway 09 and runway 27.**

1.5 Part 5: Refurbishment of portion of taxiway A.

- 1.5.1** Taxiway A is not available for taxiing of aircraft from 1600 UTC of 23 February 2023 up to 0030 UTC of 11 July 2023, H24
- 1.5.2** Construction work activity for refurbishment of portion of taxiway A shall be carried out during time limited closure of runway 09-27 (**Refer Sl. No 1 above**).
- 1.5.3** Taxiway closure marking and red obstruction lights (at every 3m) across the width of taxiway shall be deployed for indicating the closure of taxiway A.
- 1.5.4** Procedure to access state apron / hangar area by aircraft has been developed in coordination with ATC (AAI) and hangar operators via existing taxiway L connecting behind stand 14 to state apron / hangar.
- 1.5.4.1** Pilot(s) operating to and from UP state Apron / hangar shall coordinate with ATC for taxiing instructions. Follow Me service shall be available on request.
- 1.5.5** Work for refurbishment of portion of taxiway A shall be undertaken from edge of runway up to 90m from centerline of runway and towards North of runway 09-27.
- 1.5.6** Approximately 150 - 200mm level difference shall exist during refurbishment of the pavement of taxiway A.
- 1.5.7** Compliant slope for ramp is provided at the location of level difference between the existing surface and newly constructed surface of taxiway A.

❖ **Refer Chart -5 for location of work area of refurbishment of portion of taxiway A.**

1.6 Part 6: Works related shifting of Aeronautical Ground Lights (AGL) and other associated works shall be carried out during time limited closure of runway 09-27 (Refer Sl. No 1 above). Below mentioned works are planned:

- 1.6.1** Construction of primary and associated duct banks for the Aeronautical Ground Lights (AGL) of runway 09-27.
- 1.6.2** Edge light of runway 09-27 shall be shifted within 3m from edge of the runway to ensure compliance to the requirements of DGCA CAR 4B1.
- 1.6.3** New AGL chambers will be constructed for runway 09-27 for laying of cables.
- 1.6.4** After completion of day's work, serviceable edge lights of runway 09-27 shall be available for operations.
- 1.6.4.1** Methodology of works ensures that edge lights of runway as per color and distance coding shall be made available for aircraft operations.

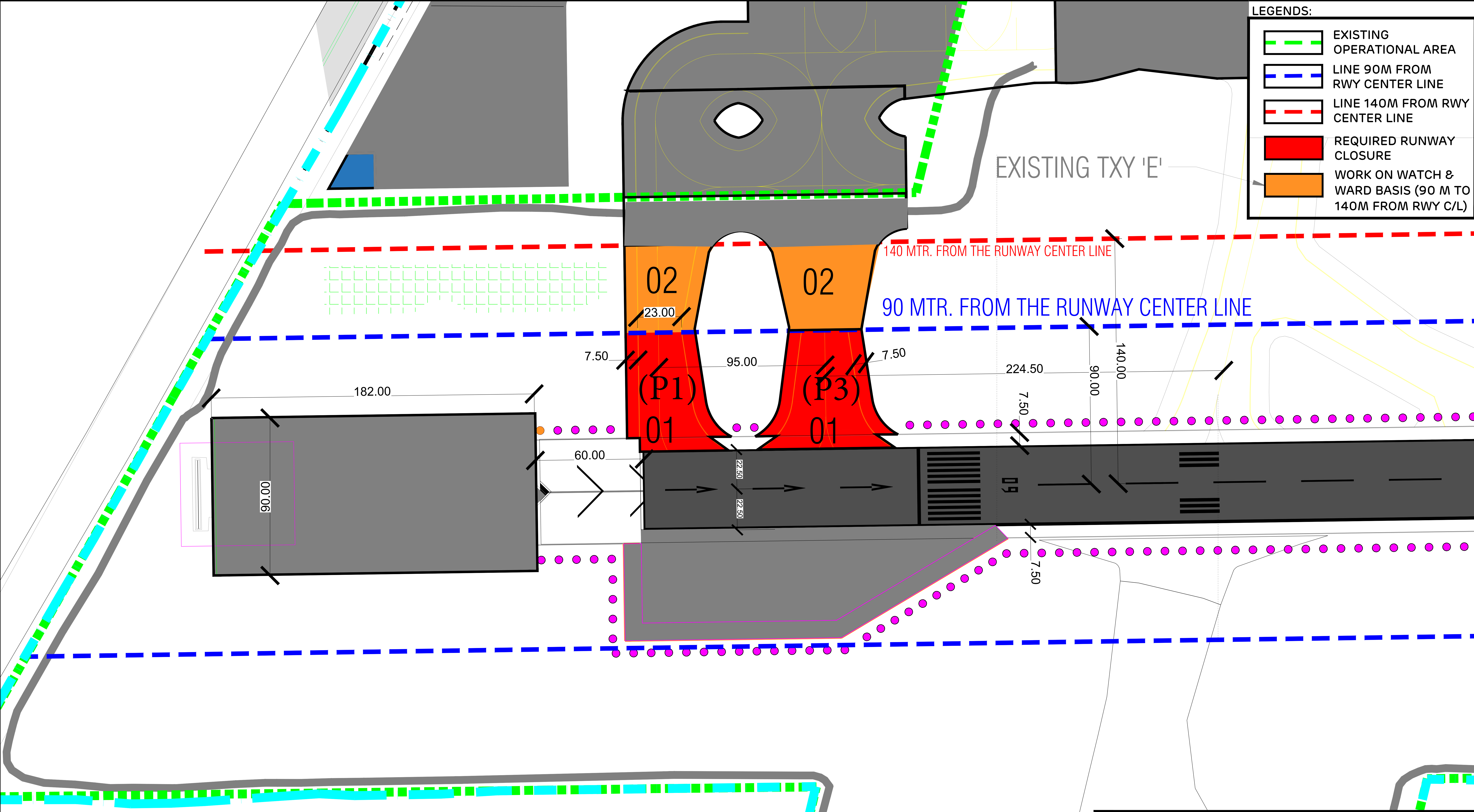
Refer Chart -6 for location of work area on runway for shifting of runway edge lights and construction of AGL chambers, and duct bank chambers.

CONSTRUCTION OF 03 NO. OF TAXIWAYS AND
REFURBISHMENT OF TAXIWAY A, NORTH OF RUNWAY 09-27
BETWEEN 90M UP TO 140M FROM CENTRELINE OF RUNWAY
(FROM 23 FEB 2023 TO 16 OCTOBER 2023)

1. Works activity for construction of portion of taxiways falling within runway strip beyond 90m up to 140m from centerline of runway 09-27 (in Zone-2 and zone-3) will be carried out from **1600 UTC of 23rd February 2023 up to 1230 UTC of 16th October 2023, H24.**

Note: Construction works activity located beyond 140m from centerline of runway (out of runway strip) and work activities which do not have any impact on aircraft operations are not considered for promulgation in AIP Supplement.

- 1.1 **Part 1:** Construction of 02 no. of entry / exit taxiways (proposed designation P1 and P3) and 01 link taxiway (proposed designation P6) for portion of taxiways falling within runway strip beyond 90m up to 140m from centerline of runway 09-27 (in Zone-2 and zone-3).
 - 1.1.1 Construction work will be carried out for 03 new taxiways (proposed designations P1, P3 and P6). (Refer Sl. No 1 above).
 - 1.1.2 Illumination of work area during night shall be done by deploying portable lights which shall be facing downwards to avoid glare to the Pilots.
 - 1.1.3 Work area and deployed machinery will be marked and lighted as per DGCA CAR 4B1.
 - 1.1.4 Machinery deployed shall remain clear of Obstacle Free Zone (OFZ) of runway 09/27.
 - ❖ **Refer Chart – 1 and chart 2 for location of work area for construction of 02 entry / exit taxiways at the beginning of runway 09 and 01 Link Taxiway respectively.**
 - 1.2 **Part 2:** Refurbishment of taxiway A from 90m to 140m from runway centerline at North of runway 09-27. (Refer Sl. No 1 above).
 - 1.2.1 Refurbishment / construction work for taxiway A shall be carried out.
 - 1.2.2 Compliant slope of ramp is provided between the existing and newly constructed surface.
 - 1.2.3 Illumination of work area during night shall be done by deploying portable lights which shall be facing downwards to avoid glare to the Pilots.
 - 1.2.4 Work area and deployed machinery will be marked and lighted as per DGCA CAR 4B1.
 - 1.2.5 Machinery deployed shall remain clear of Obstacle Free Zone (OFZ) of runway 09/27.
- Refer Chart -5 for location of work area of refurbishment of portion of taxiway A.**



AIRSIDE IMPROVEMENT WORKS AT LUCKNOW INTERNATIONAL AIRPORT

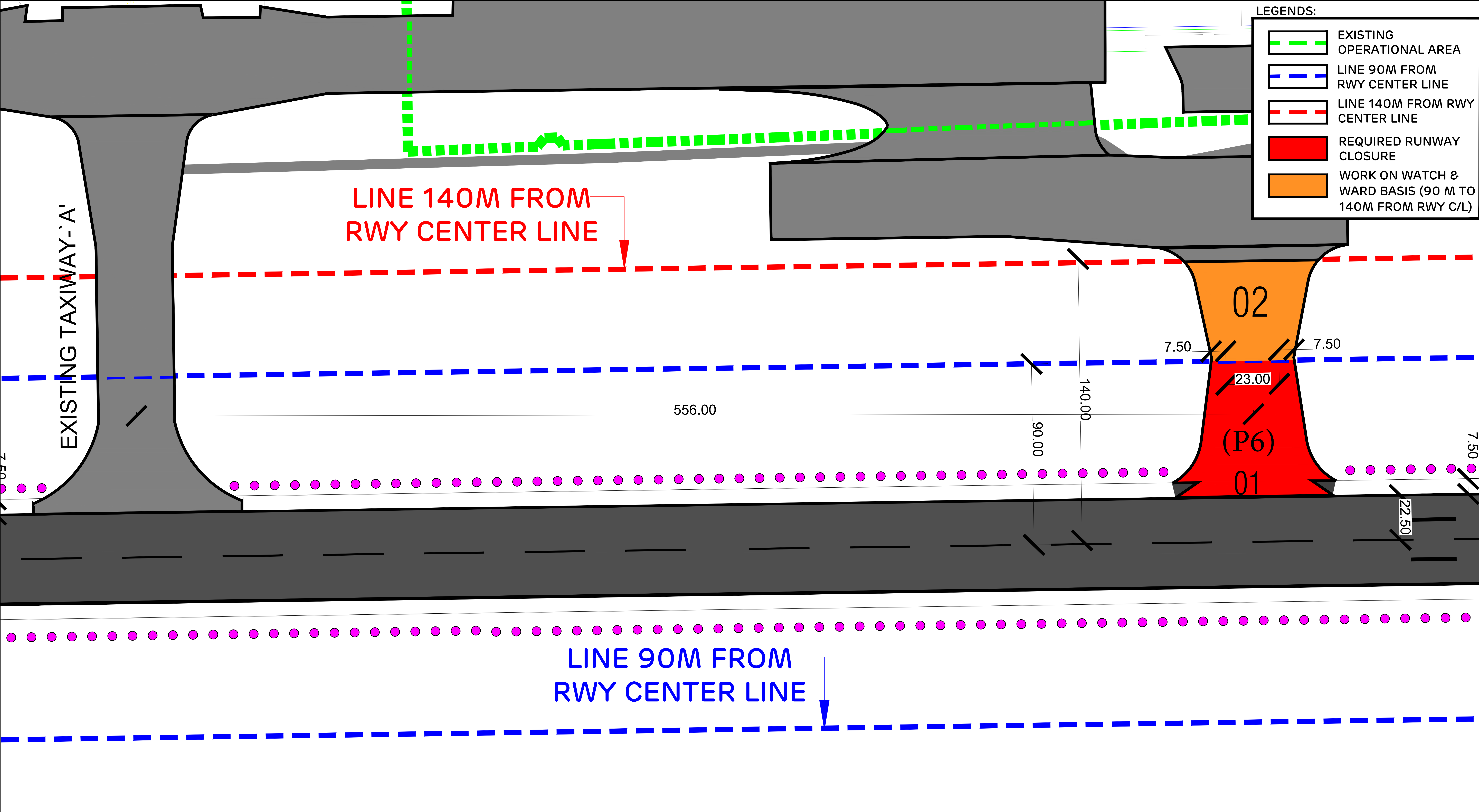
- 01

ENTRY/EXIT TWYS (P1,P3)(UP TO 90M FROM RWY C/L)
- 02

ENTRY/EXIT TWYS (P1,P3) (90M TO 140M FROM RWY C/L)

Chart 1 - Airside Improvement Works- ENTRY/EXIT TWYS (P1,P3) Plan

LEGENDS	TIME LINE FOR RUNWAY CLOSURE
<div>01</div> ENTRY/EXIT TWYS (P1,P3)(UP TO 90M FROM RWY C/L)	23 Feb 2023 TO 11 July 2023
LEGENDS	TIME LINE FOR WORK COMPLETION
<div>02</div> ENTRY/EXIT TWYS (P1,P3) (90M TO 140M FROM RWY C/L)	23 Feb 2023 TO 16 Oct 2023



AIRSIDE IMPROVEMENT WORKS AT LUCKNOW INTERNATIONAL AIRPORT

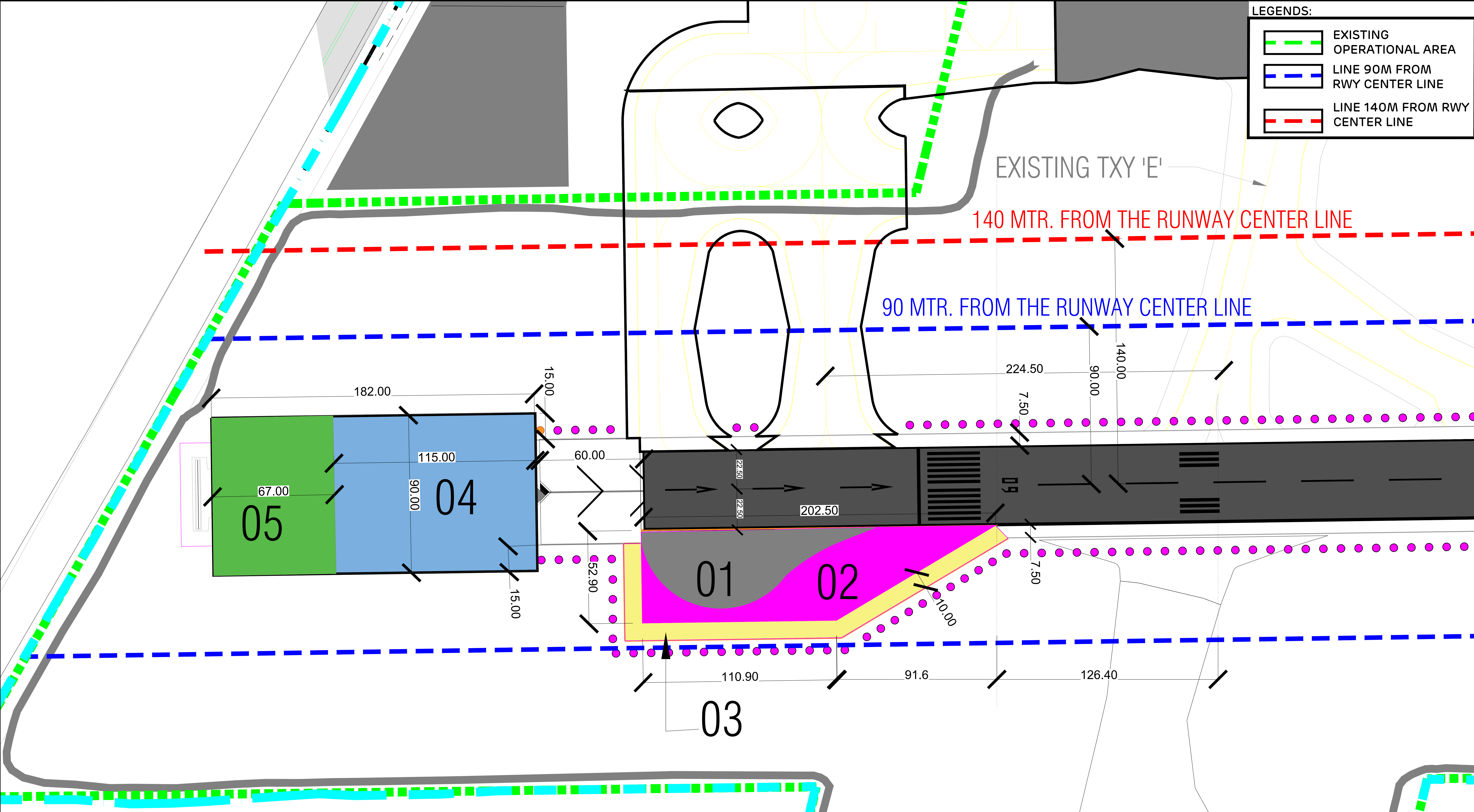
- 01

LINK TWY (P6) (UP TO 90M FROM RWY C/L)
- 02

LINK TWY (P6) (90M TO 140M FROM RWY C/L)

Chart 2 - Airside Improvement Works- LINK TWY (P6)

LEGENDS	TIME LINE FOR RUNWAY CLOSURE
<div>01</div> LINK TWY (P6) (UP TO 90M FROM RWY C/L)	23 Feb 2023 TO 11 July 2023
LEGENDS	TIME LINE FOR WORK COMPLETION
<div>02</div> LINK TWY (P6) (90M TO 140M FROM RWY C/L)	23 Feb 2023 TO 16 Oct 2023



AIRSIDE IMPROVEMENT WORKS AT LUCKNOW INTERNATIONAL AIRPORT

- 01

EXISTING TURNPAD 09
- 02

EXTENSION OF TURNPAD 09
- 03

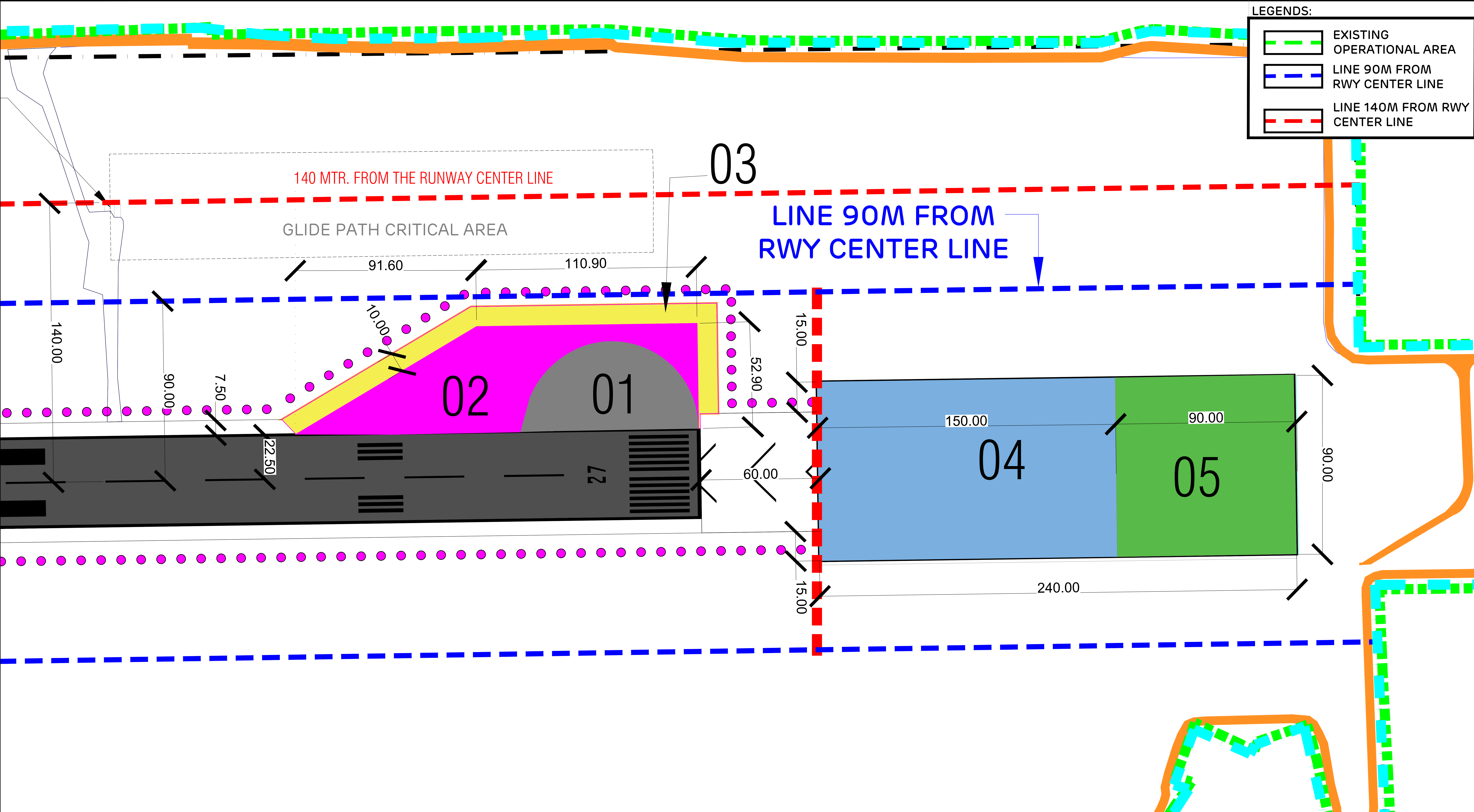
TURNPAD SHOULDER 09
- 04

EXISTING RESA 27
- 05

EXTENSION OF RESA 27

LEGENDS	TIMEINE FOR RWY CLOSURE
EXTENSION OF TURNPAD 09	23 FEB'2023 TO 11 JULY.2023
EXTENSION OF RESA 27	23 FEB'2023 TO 11 JULY.2023

Chart 3 - Airside Improvement Works- TURNPAD 09, RESA 27 Plan



AIRSIDE IMPROVEMENT WORKS AT LUCKNOW INTERNATIONAL AIRPORT

- 01

EXISTING TURNPAD- 27
- 02

EXTENSION OF TURNPAD - 27
- 03

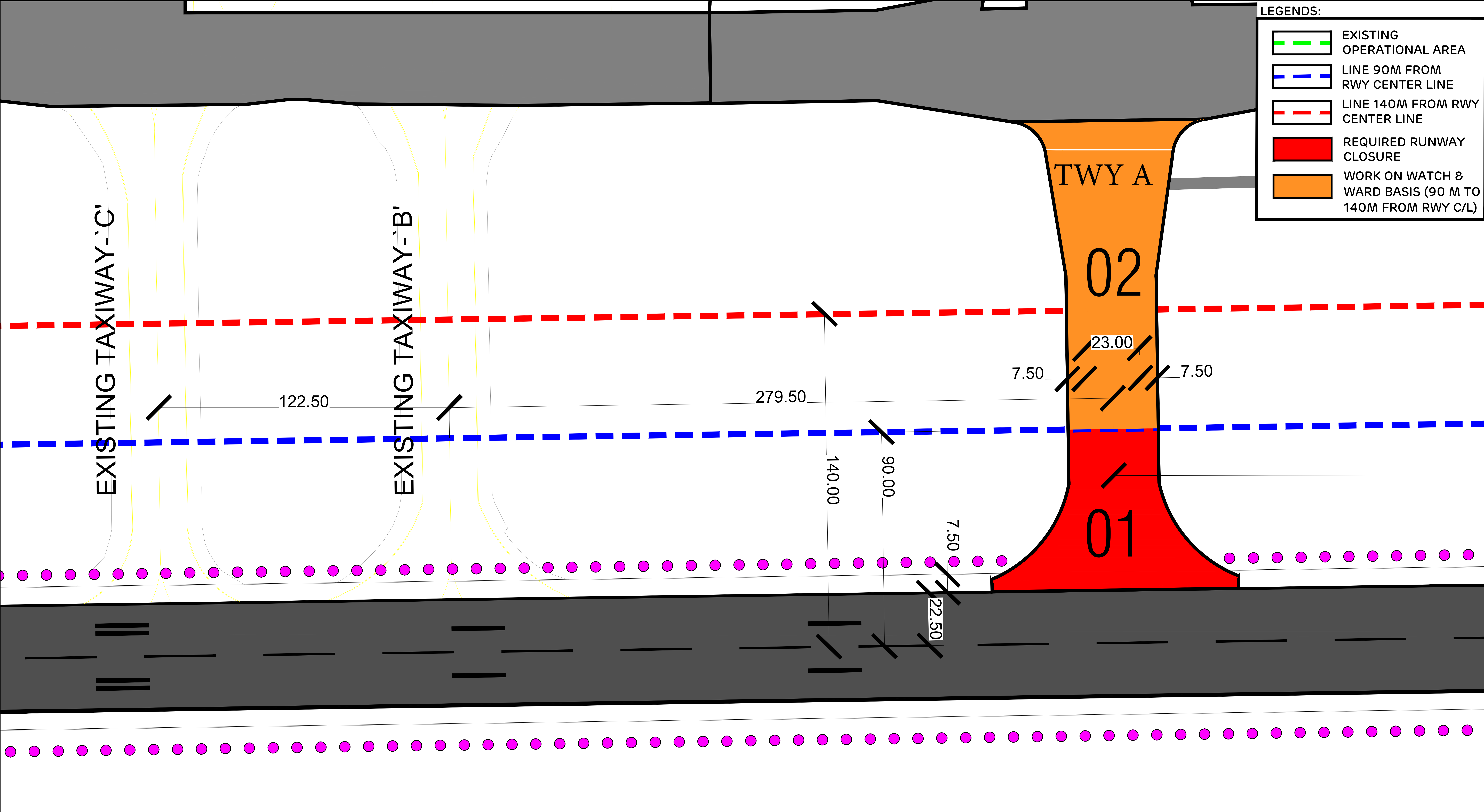
TURNPAD SHOULDER- 27
- 04

EXISTING RESA- 09
- 05

EXTENSION OF RESA- 09

LEGENDS	TIMEINE FOR RWY CLOSURE
EXTENSION OF TURNPAD 27	23 FEB'2023 TO 11 JULY.2023
EXTENSION OF RESA 09	23 FEB'2023 TO 11 JULY.2023

Chart 4 - Airside Improvement Works- TURNPAD 27, RESA 09 Plan



AIRSIDE IMPROVEMENT WORKS AT LUCKNOW INTERNATIONAL AIRPORT

- 01

REFURBISHMENT OF TWY 'A' (UP TO 90M FROM RWY C/L)
- 02

REFURBISHMENT OF TWY 'A' (90M TO 140M FROM RWY C/L)

Chart 5 - Airside Improvement Works- REFURBISHMENT OF TWY 'A'

LEGENDS	TIME LINE FOR RUNWAY CLOSURE
<div>01</div> REFURBISHMENT OF TWY 'A' (UP TO 90M FROM RWY C/L)	23 Feb 2023 TO 11 July 2023
LEGENDS	TIME LINE FOR TAXIWAY CLOSURE
<div>02</div> REFURBISHMENT OF TWY 'A' (90M TO 140M FROM RWY C/L)	23 Feb 2023 TO 11 July 2023

Runway Edge Light Within 3m from Runway Shoulder Edge Line

CHILLAWAN VILLAGE
CHILLAWAN VILLAGE

AMALU METRO STATION

ELEVATED ROAD FROM SHAHEED PATH

Fuel Farm

CARGO

GLIDE PATH

GLIDE PATH CRITICAL AREA

LINE 140M FROM RWY CENTER LINE

LINE 90M FROM RWY CENTER LINE

LINE 90M FROM RWY CENTER LINE

LINE 90M FROM RWY CENTER LINE

DVOR, 439 ft.

DVOR MONITOR ANTENNA, 432 ft.

DVOR/DME LKN 117.4 CH 121X ELEV. 424 ft.

01

02

02

40.00


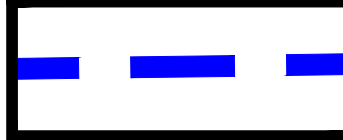



90.00

27

LEGENDS:

- EXISTING OPERATIONAL AREA
- LINE 90M FROM RWY CENTER LINE
- LINE 140M FROM RWY CENTER LINE
- PROPOSED OPERATIONAL BOUNDARY WALL
- REQUIRED RUNWAY CLOSURE

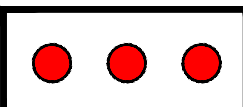

LEGENDS:

	EXISTING OPERATIONAL AREA
	LINE 90M FROM RWY CENTER LINE
	LINE 140M FROM RWY CENTER LINE
	PROPOSED OPERATIONAL BOUNDARY WALL
	REQUIRED RUNWAY CLOSURE

01 RUNWAY EDGE LIGHT (30m C/C)

02 PRIMARY & ASSOCIATED DUCT BANK

PRIMARY &
ASSOCIATED
DUCT BANK

LEGENDS		TIME LINE FOR RUNWAY CLOSURE	
	RUNWAY EDGE LIGHT	23 Feb 2023 TO 11 July 2023	
	PRIMARY & ASSOCIATED DUCT BANK	23 Feb 2023 TO 11 July 2023	

- DUCT BANK FOR EXISTING & PROPOSED AGL CABLE AS PER MASTER PLAN
- STRENGTHENING OF POWER SYSTEM FOR NAVAID WORKS

Chart 6 - Airside Improvement Works- Runway Edge Light & Associated Duct Bank