



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



Duke Young 4/30/24
DUKE YOUNG, PE
CIVIL ENGINEER

DSGN.	DRWN.	CHKD.	APPD.
HF	HT	JB	DY

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

JULY 2022
DATE

PROJECT TITLE :

RELOCATE
RUNWAY 3-21

AT
LIHUE AIRPORT
LIHUE, KAUAI, HAWAII

PROJECT NO.:

AK1031-14

SHEET TITLE:

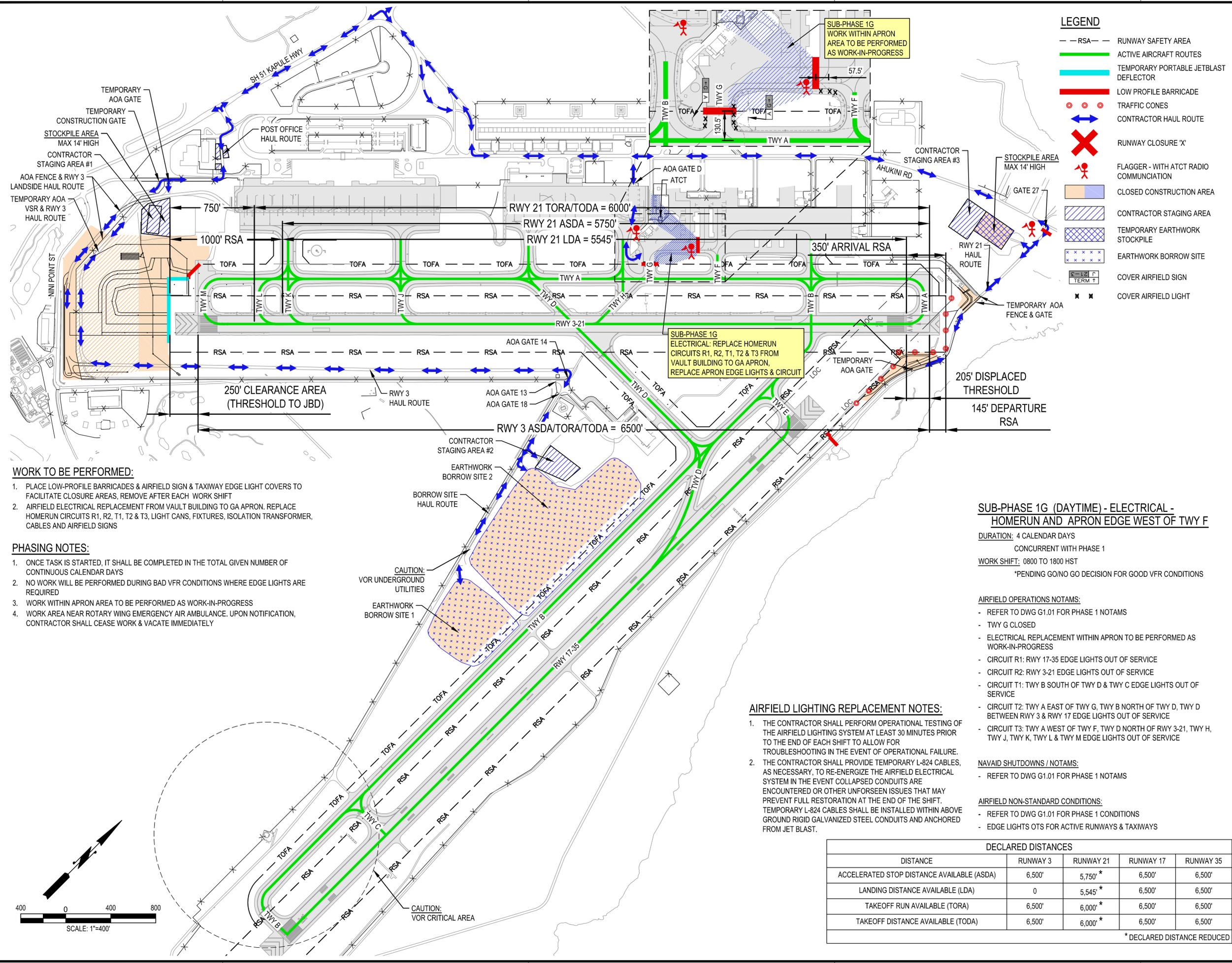
SUB-PHASE 1G
(DAYTIME)

DATE :
07/2022

SHEET :
39 OF 376 SHEETS

DWG. NO.

G1.11



LEGEND

- RSA --- RUNWAY SAFETY AREA
- ACTIVE AIRCRAFT ROUTES
- TEMPORARY PORTABLE JETBLAST DEFLECTOR
- LOW PROFILE BARRICADE
- TRAFFIC CONES
- CONTRACTOR HAUL ROUTE
- RUNWAY CLOSURE 'X'
- FLAGGER - WITH ATCT RADIO COMMUNICATION
- CLOSED CONSTRUCTION AREA
- CONTRACTOR STAGING AREA
- TEMPORARY EARTHWORK STOCKPILE
- EARTHWORK BORROW SITE
- COVER AIRFIELD SIGN
- COVER AIRFIELD LIGHT

- WORK TO BE PERFORMED:**
- PLACE LOW-PROFILE BARRICADES & AIRFIELD SIGN & TAXIWAY EDGE LIGHT COVERS TO FACILITATE CLOSURE AREAS, REMOVE AFTER EACH WORK SHIFT
 - AIRFIELD ELECTRICAL REPLACEMENT FROM VAULT BUILDING TO GA APRON. REPLACE HOMERUN CIRCUITS R1, R2, T1, T2 & T3, LIGHT CANS, FIXTURES, ISOLATION TRANSFORMER, CABLES AND AIRFIELD SIGNS

- PHASING NOTES:**
- ONCE TASK IS STARTED, IT SHALL BE COMPLETED IN THE TOTAL GIVEN NUMBER OF CONTINUOUS CALENDAR DAYS
 - NO WORK WILL BE PERFORMED DURING BAD VFR CONDITIONS WHERE EDGE LIGHTS ARE REQUIRED
 - WORK WITHIN APRON AREA TO BE PERFORMED AS WORK-IN-PROGRESS
 - WORK AREA NEAR ROTARY WING EMERGENCY AIR AMBULANCE. UPON NOTIFICATION, CONTRACTOR SHALL CEASE WORK & VACATE IMMEDIATELY

SUB-PHASE 1G
ELECTRICAL: REPLACE HOMERUN CIRCUITS R1, R2, T1, T2 & T3 FROM VAULT BUILDING TO GA APRON. REPLACE APRON EDGE LIGHTS & CIRCUIT

SUB-PHASE 1G (DAYTIME) - ELECTRICAL - HOMERUN AND APRON EDGE WEST OF TWY F

DURATION: 4 CALENDAR DAYS
CONCURRENT WITH PHASE 1

WORK SHIFT: 0800 TO 1800 HST
*PENDING GO/NO GO DECISION FOR GOOD VFR CONDITIONS

- AIRFIELD OPERATIONS NOTAMS:**
- REFER TO DWG G1.01 FOR PHASE 1 NOTAMS
 - TWY G CLOSED
 - ELECTRICAL REPLACEMENT WITHIN APRON TO BE PERFORMED AS WORK-IN-PROGRESS
 - CIRCUIT R1: RWY 17-35 EDGE LIGHTS OUT OF SERVICE
 - CIRCUIT R2: RWY 3-21 EDGE LIGHTS OUT OF SERVICE
 - CIRCUIT T1: TWY B SOUTH OF TWY D & TWY C EDGE LIGHTS OUT OF SERVICE
 - CIRCUIT T2: TWY A EAST OF TWY G, TWY B NORTH OF TWY D, TWY D BETWEEN RWY 3 & RWY 17 EDGE LIGHTS OUT OF SERVICE
 - CIRCUIT T3: TWY A WEST OF TWY F, TWY D NORTH OF RWY 3-21, TWY H, TWY J, TWY K, TWY L & TWY M EDGE LIGHTS OUT OF SERVICE

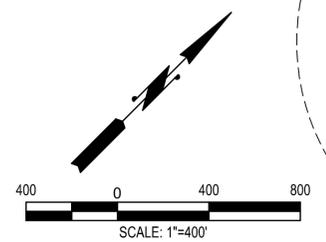
- AIRFIELD LIGHTING REPLACEMENT NOTES:**
- THE CONTRACTOR SHALL PERFORM OPERATIONAL TESTING OF THE AIRFIELD LIGHTING SYSTEM AT LEAST 30 MINUTES PRIOR TO THE END OF EACH SHIFT TO ALLOW FOR TROUBLESHOOTING IN THE EVENT OF OPERATIONAL FAILURE.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY L-824 CABLES, AS NECESSARY, TO RE-ENERGIZE THE AIRFIELD ELECTRICAL SYSTEM IN THE EVENT COLLAPSED CONDUITS ARE ENCOUNTERED OR OTHER UNFORSEEN ISSUES THAT MAY PREVENT FULL RESTORATION AT THE END OF THE SHIFT. TEMPORARY L-824 CABLES SHALL BE INSTALLED WITHIN ABOVE GROUND RIGID GALVANIZED STEEL CONDUITS AND ANCHORED FROM JET BLAST.

- NAVAID SHUTDOWNS / NOTAMS:**
- REFER TO DWG G1.01 FOR PHASE 1 NOTAMS
- AIRFIELD NON-STANDARD CONDITIONS:**
- REFER TO DWG G1.01 FOR PHASE 1 CONDITIONS
 - EDGE LIGHTS OTS FOR ACTIVE RUNWAYS & TAXIWAYS

DECLARED DISTANCES

DISTANCE	RUNWAY 3	RUNWAY 21	RUNWAY 17	RUNWAY 35
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	6,500'	5,750' *	6,500'	6,500'
LANDING DISTANCE AVAILABLE (LDA)	0	5,545' *	6,500'	6,500'
TAKEOFF RUN AVAILABLE (TORA)	6,500'	6,000' *	6,500'	6,500'
TAKEOFF DISTANCE AVAILABLE (TODA)	6,500'	6,000' *	6,500'	6,500'

* DECLARED DISTANCE REDUCED



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STATE OF HAWAII



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CIVIL ENGINEER
Expiration Date

DSGN.	DRWN.	CHKD.	APPD.
HF	HT	JB	DY

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

JULY 2022
DATE

PROJECT TITLE :

RELOCATE RUNWAY 3-21

AT LIHUE AIRPORT
LIHUE, KAUAI, HAWAII

PROJECT NO.:

AK1031-14

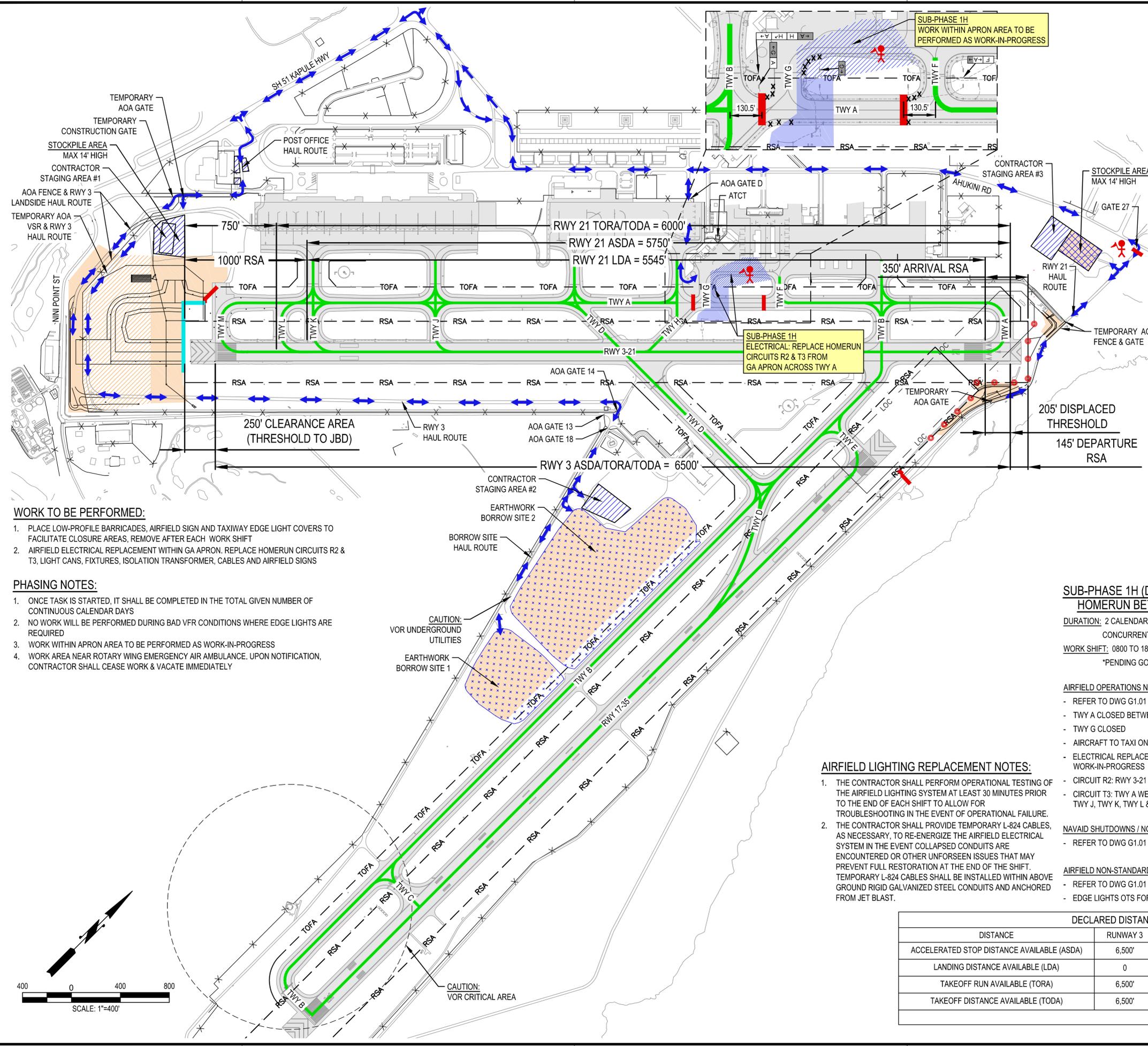
SHEET TITLE:

SUB-PHASE 1H
(DAYTIME)

DATE : 07/2022

SHEET : 40 OF 376 SHEETS

DWG. NO. G1.12



LEGEND

- RSA --- RUNWAY SAFETY AREA
- ACTIVE AIRCRAFT ROUTES
- TEMPORARY PORTABLE JETBLAST DEFLECTOR
- LOW PROFILE BARRICADE
- TRAFFIC CONES
- CONTRACTOR HAUL ROUTE
- RUNWAY CLOSURE 'X'
- FLAGGER - WITH ATCT RADIO COMMUNICATION
- CLOSED CONSTRUCTION AREA
- CONTRACTOR STAGING AREA
- TEMPORARY EARTHWORK STOCKPILE
- EARTHWORK BORROW SITE
- COVER AIRFIELD SIGN
- COVER AIRFIELD LIGHT

- WORK TO BE PERFORMED:**
- PLACE LOW-PROFILE BARRICADES, AIRFIELD SIGN AND TAXIWAY EDGE LIGHT COVERS TO FACILITATE CLOSURE AREAS, REMOVE AFTER EACH WORK SHIFT
 - AIRFIELD ELECTRICAL REPLACEMENT WITHIN GA APRON. REPLACE HOMERUN CIRCUITS R2 & T3, LIGHT CANS, FIXTURES, ISOLATION TRANSFORMER, CABLES AND AIRFIELD SIGNS

- PHASING NOTES:**
- ONCE TASK IS STARTED, IT SHALL BE COMPLETED IN THE TOTAL GIVEN NUMBER OF CONTINUOUS CALENDAR DAYS
 - NO WORK WILL BE PERFORMED DURING BAD VFR CONDITIONS WHERE EDGE LIGHTS ARE REQUIRED
 - WORK WITHIN APRON AREA TO BE PERFORMED AS WORK-IN-PROGRESS
 - WORK AREA NEAR ROTARY WING EMERGENCY AIR AMBULANCE. UPON NOTIFICATION, CONTRACTOR SHALL CEASE WORK & VACATE IMMEDIATELY

SUB-PHASE 1H (DAYTIME) - ELECTRICAL - HOMERUN BETWEEN TWY F & TWY H

DURATION: 2 CALENDAR DAYS
CONCURRENT WITH PHASE 1
WORK SHIFT: 0800 TO 1800 HST
*PENDING GO/NO GO DECISION FOR GOOD VFR CONDITIONS

- AIRFIELD OPERATIONS NOTAMS:**
- REFER TO DWG G1.01 FOR PHASE 1 NOTAMS
 - TWY A CLOSED BETWEEN TWY F AND TWY H
 - TWY G CLOSED
 - AIRCRAFT TO TAXI ON RWY 3-21 TO BYPASS CONSTRUCTION
 - ELECTRICAL REPLACEMENT WITHIN APRON TO BE PERFORMED AS WORK-IN-PROGRESS
 - CIRCUIT R2: RWY 3-21 EDGE LIGHTS OUT OF SERVICE
 - CIRCUIT T3: TWY A WEST OF TWY F, TWY D NORTH OF RWY 3-21, TWY H, TWY J, TWY K, TWY L & TWY M EDGE LIGHTS OUT OF SERVICE

NAVAID SHUTDOWNS / NOTAMS:

- REFER TO DWG G1.01 FOR PHASE 1 NOTAMS

AIRFIELD NON-STANDARD CONDITIONS:

- REFER TO DWG G1.01 FOR PHASE 1 CONDITIONS
- EDGE LIGHTS OTS FOR ACTIVE RUNWAYS & TAXIWAYS

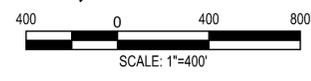
AIRFIELD LIGHTING REPLACEMENT NOTES:

- THE CONTRACTOR SHALL PERFORM OPERATIONAL TESTING OF THE AIRFIELD LIGHTING SYSTEM AT LEAST 30 MINUTES PRIOR TO THE END OF EACH SHIFT TO ALLOW FOR TROUBLESHOOTING IN THE EVENT OF OPERATIONAL FAILURE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY L-824 CABLES, AS NECESSARY, TO RE-ENERGIZE THE AIRFIELD ELECTRICAL SYSTEM IN THE EVENT COLLAPSED CONDUITS ARE ENCOUNTERED OR OTHER UNFORSEEN ISSUES THAT MAY PREVENT FULL RESTORATION AT THE END OF THE SHIFT. TEMPORARY L-824 CABLES SHALL BE INSTALLED WITHIN ABOVE GROUND RIGID GALVANIZED STEEL CONDUITS AND ANCHORED FROM JET BLAST.

DECLARED DISTANCES

DISTANCE	RUNWAY 3	RUNWAY 21	RUNWAY 17	RUNWAY 35
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	6,500'	5,750' *	6,500'	6,500'
LANDING DISTANCE AVAILABLE (LDA)	0	5,545' *	6,500'	6,500'
TAKEOFF RUN AVAILABLE (TORA)	6,500'	6,000' *	6,500'	6,500'
TAKEOFF DISTANCE AVAILABLE (TODA)	6,500'	6,000' *	6,500'	6,500'

* DECLARED DISTANCE REDUCED



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STATE OF HAWAII



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CIVIL ENGINEER
4/30/24
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HF	HT	JB	DY

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

JULY 2022
DATE

PROJECT TITLE :

RELOCATE
RUNWAY 3-21

AT
LIHUE AIRPORT
LIHUE, KAUAI, HAWAII

PROJECT NO.:

AK1031-14

SHEET TITLE:

SUB-PHASE 11
(DAYTIME)

DATE :

07/2022

SHEET :

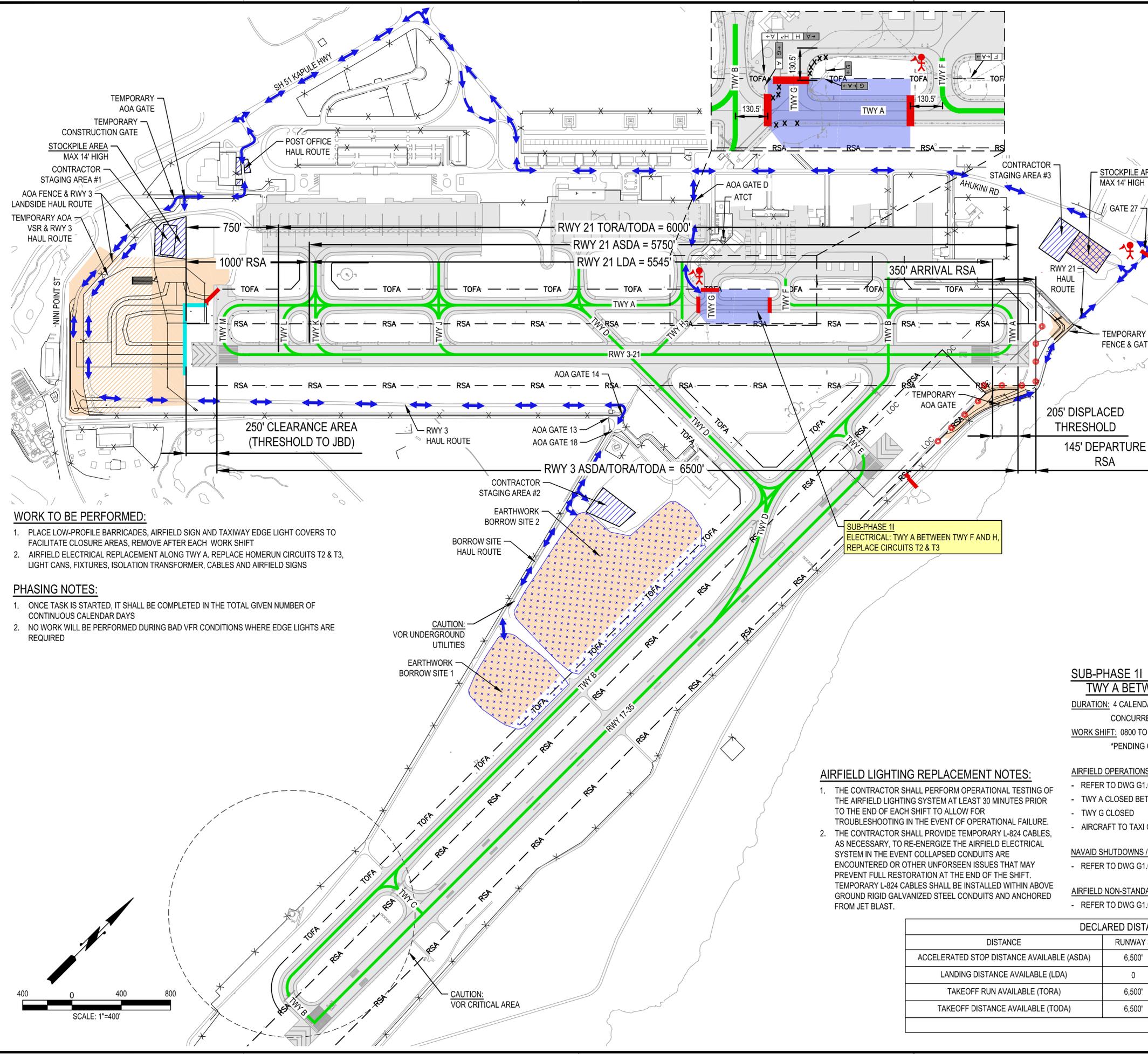
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DWG. NO.

G1.13

LEGEND

- RSA --- RUNWAY SAFETY AREA
- ACTIVE AIRCRAFT ROUTES
- TEMPORARY PORTABLE JETBLAST DEFLECTOR
- LOW PROFILE BARRICADE
- TRAFFIC CONES
- CONTRACTOR HAUL ROUTE
- RUNWAY CLOSURE 'X'
- FLAGGER - WITH ATCT RADIO COMMUNICATION
- CLOSED CONSTRUCTION AREA
- CONTRACTOR STAGING AREA
- TEMPORARY EARTHWORK STOCKPILE
- EARTHWORK BORROW SITE
- COVER AIRFIELD SIGN
- COVER AIRFIELD LIGHT



WORK TO BE PERFORMED:

- PLACE LOW-PROFILE BARRICADES, AIRFIELD SIGN AND TAXIWAY EDGE LIGHT COVERS TO FACILITATE CLOSURE AREAS, REMOVE AFTER EACH WORK SHIFT
- AIRFIELD ELECTRICAL REPLACEMENT ALONG TWY A. REPLACE HOMERUN CIRCUITS T2 & T3, LIGHT CANS, FIXTURES, ISOLATION TRANSFORMER, CABLES AND AIRFIELD SIGNS

PHASING NOTES:

- ONCE TASK IS STARTED, IT SHALL BE COMPLETED IN THE TOTAL GIVEN NUMBER OF CONTINUOUS CALENDAR DAYS
- NO WORK WILL BE PERFORMED DURING BAD VFR CONDITIONS WHERE EDGE LIGHTS ARE REQUIRED

AIRFIELD LIGHTING REPLACEMENT NOTES:

- THE CONTRACTOR SHALL PERFORM OPERATIONAL TESTING OF THE AIRFIELD LIGHTING SYSTEM AT LEAST 30 MINUTES PRIOR TO THE END OF EACH SHIFT TO ALLOW FOR TROUBLESHOOTING IN THE EVENT OF OPERATIONAL FAILURE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY L-824 CABLES, AS NECESSARY, TO RE-ENERGIZE THE AIRFIELD ELECTRICAL SYSTEM IN THE EVENT COLLAPSED CONDUITS ARE ENCOUNTERED OR OTHER UNFORSEEN ISSUES THAT MAY PREVENT FULL RESTORATION AT THE END OF THE SHIFT. TEMPORARY L-824 CABLES SHALL BE INSTALLED WITHIN ABOVE GROUND RIGID GALVANIZED STEEL CONDUITS AND ANCHORED FROM JET BLAST.

SUB-PHASE 11 (DAYTIME) - ELECTRICAL - TWY A BETWEEN TWY F & TWY H

DURATION: 4 CALENDAR DAYS
 CONCURRENT WITH PHASE 1
 WORK SHIFT: 0800 TO 1800 HST
 *PENDING GO/NO GO DECISION FOR GOOD VFR CONDITIONS

AIRFIELD OPERATIONS NOTAMS:

- REFER TO DWG G1.01 FOR PHASE 1 NOTAMS
- TWY A CLOSED BETWEEN TWY F AND TWY H
- TWY G CLOSED
- AIRCRAFT TO TAXI ON RWY 3-21 TO BYPASS CONSTRUCTION

NAVAID SHUTDOWNS / NOTAMS:

- REFER TO DWG G1.01 FOR PHASE 1 NOTAMS

AIRFIELD NON-STANDARD CONDITIONS:

- REFER TO DWG G1.01 FOR PHASE 1 CONDITIONS

DECLARED DISTANCES

DISTANCE	RUNWAY 3	RUNWAY 21	RUNWAY 17	RUNWAY 35
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	6,500'	5,750' *	6,500'	6,500'
LANDING DISTANCE AVAILABLE (LDA)	0	5,545' *	6,500'	6,500'
TAKEOFF RUN AVAILABLE (TORA)	6,500'	6,000' *	6,500'	6,500'
TAKEOFF DISTANCE AVAILABLE (TODA)	6,500'	6,000' *	6,500'	6,500'

* DECLARED DISTANCE REDUCED

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RELOCATE
RUNWAY 3-21

AT
LIHUE AIRPORT
LIHUE, KAUAI, HAWAII

PROJECT NO.:

AK1031-14

SHEET TITLE:

SUB-PHASE 1J
(DAYTIME)

DATE :

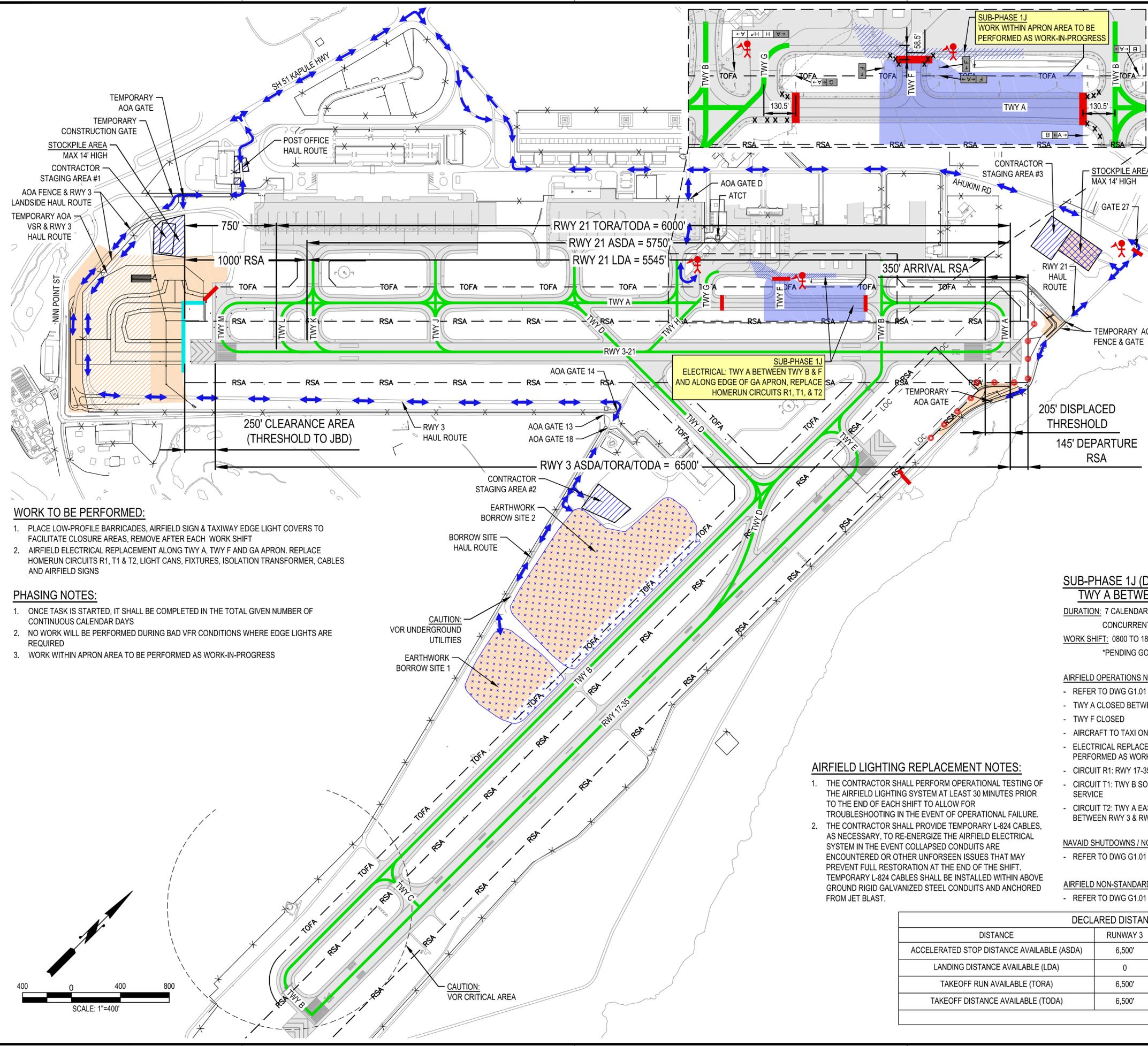
07/2022

SHEET :

42 OF 376 SHEETS

DWG. NO.

G1.14



LEGEND

- RSA --- RUNWAY SAFETY AREA
- ACTIVE AIRCRAFT ROUTES
- TEMPORARY PORTABLE JETBLAST DEFLECTOR
- LOW PROFILE BARRICADE
- TRAFFIC CONES
- CONTRACTOR HAUL ROUTE
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- TEMPORARY EARTHWORK STOCKPILE
- EARTHWORK BORROW SITE
- COVER AIRFIELD SIGN
- COVER AIRFIELD LIGHT

- WORK TO BE PERFORMED:**
- PLACE LOW-PROFILE BARRICADES, AIRFIELD SIGN & TAXIWAY EDGE LIGHT COVERS TO FACILITATE CLOSURE AREAS, REMOVE AFTER EACH WORK SHIFT
 - AIRFIELD ELECTRICAL REPLACEMENT ALONG TWY A, TWY F AND GA APRON, REPLACE HOMERUN CIRCUITS R1, T1 & T2, LIGHT CANS, FIXTURES, ISOLATION TRANSFORMER, CABLES AND AIRFIELD SIGNS

- PHASING NOTES:**
- ONCE TASK IS STARTED, IT SHALL BE COMPLETED IN THE TOTAL GIVEN NUMBER OF CONTINUOUS CALENDAR DAYS
 - NO WORK WILL BE PERFORMED DURING BAD VFR CONDITIONS WHERE EDGE LIGHTS ARE REQUIRED
 - WORK WITHIN APRON AREA TO BE PERFORMED AS WORK-IN-PROGRESS

SUB-PHASE 1J
ELECTRICAL: TWY A BETWEEN TWY B & F AND ALONG EDGE OF GA APRON, REPLACE HOMERUN CIRCUITS R1, T1, & T2

SUB-PHASE 1J
WORK WITHIN APRON AREA TO BE PERFORMED AS WORK-IN-PROGRESS

SUB-PHASE 1J (DAYTIME) - ELECTRICAL -
TWY A BETWEEN TWY B & TWY F

DURATION: 7 CALENDAR DAYS
CONCURRENT WITH PHASE 1
WORK SHIFT: 0800 TO 1800 HST
*PENDING GO/NO GO DECISION FOR GOOD VFR CONDITIONS

- AIRFIELD OPERATIONS NOTAMS:**
- REFER TO DWG G1.01 FOR PHASE 1 NOTAMS
 - TWY A CLOSED BETWEEN TWY B AND TWY G
 - TWY F CLOSED
 - AIRCRAFT TO TAXI ON RWY 3-21 TO BYPASS CONSTRUCTION
 - ELECTRICAL REPLACEMENT ALONG EDGE OF APRON TO BE PERFORMED AS WORK-IN-PROGRESS
 - CIRCUIT R1: RWY 17-35 EDGE LIGHTS OUT OF SERVICE
 - CIRCUIT T1: TWY B SOUTH OF TWY D & TWY C EDGE LIGHTS OUT OF SERVICE
 - CIRCUIT T2: TWY A EAST OF TWY G, TWY B NORTH OF TWY D, TWY D BETWEEN RWY 3 & RWY 17 EDGE LIGHTS OUT OF SERVICE

NAVAID SHUTDOWNS / NOTAMS:
- REFER TO DWG G1.01 FOR PHASE 1 NOTAMS

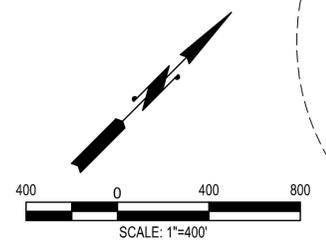
AIRFIELD NON-STANDARD CONDITIONS:
- REFER TO DWG G1.01 FOR PHASE 1 CONDITIONS

AIRFIELD LIGHTING REPLACEMENT NOTES:

- THE CONTRACTOR SHALL PERFORM OPERATIONAL TESTING OF THE AIRFIELD LIGHTING SYSTEM AT LEAST 30 MINUTES PRIOR TO THE END OF EACH SHIFT TO ALLOW FOR TROUBLESHOOTING IN THE EVENT OF OPERATIONAL FAILURE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY L-824 CABLES, AS NECESSARY, TO RE-ENERGIZE THE AIRFIELD ELECTRICAL SYSTEM IN THE EVENT COLLAPSED CONDUITS ARE ENCOUNTERED OR OTHER UNFORSEEN ISSUES THAT MAY PREVENT FULL RESTORATION AT THE END OF THE SHIFT. TEMPORARY L-824 CABLES SHALL BE INSTALLED WITHIN ABOVE GROUND RIGID GALVANIZED STEEL CONDUITS AND ANCHORED FROM JET BLAST.

DECLARED DISTANCES				
DISTANCE	RUNWAY 3	RUNWAY 21	RUNWAY 17	RUNWAY 35
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	6,500'	5,750' *	6,500'	6,500'
LANDING DISTANCE AVAILABLE (LDA)	0	5,545' *	6,500'	6,500'
TAKEOFF RUN AVAILABLE (TORA)	6,500'	6,000' *	6,500'	6,500'
TAKEOFF DISTANCE AVAILABLE (TODA)	6,500'	6,000' *	6,500'	6,500'

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