

# CHARLOTTESVILLE ALBEMARLE AIRPORT - CHO

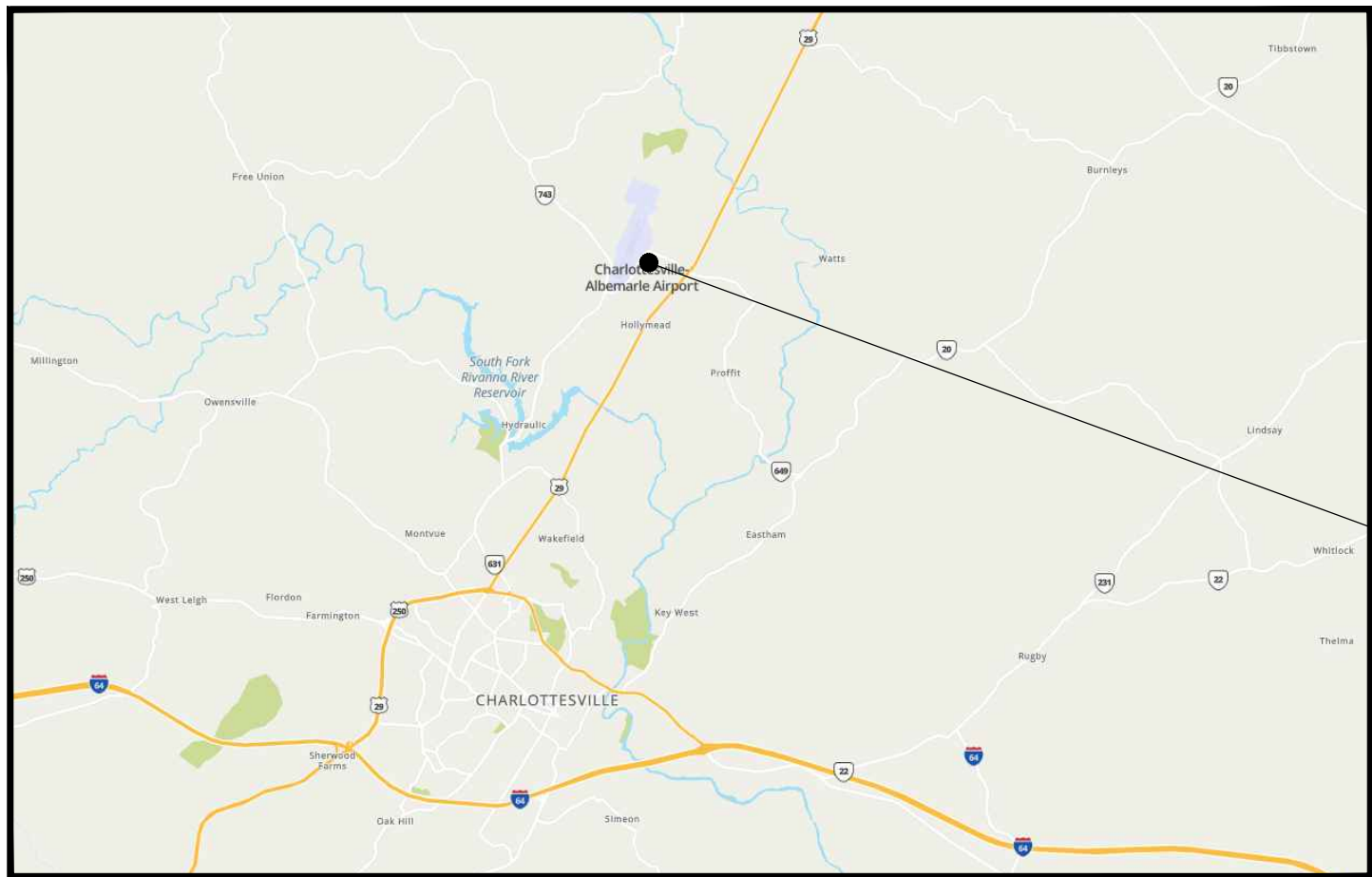
## THE CHARLOTTESVILLE-ALBEMARLE AIRPORT

### AUTHORITY BOARD

### CHARLOTTESVILLE, VIRGINIA

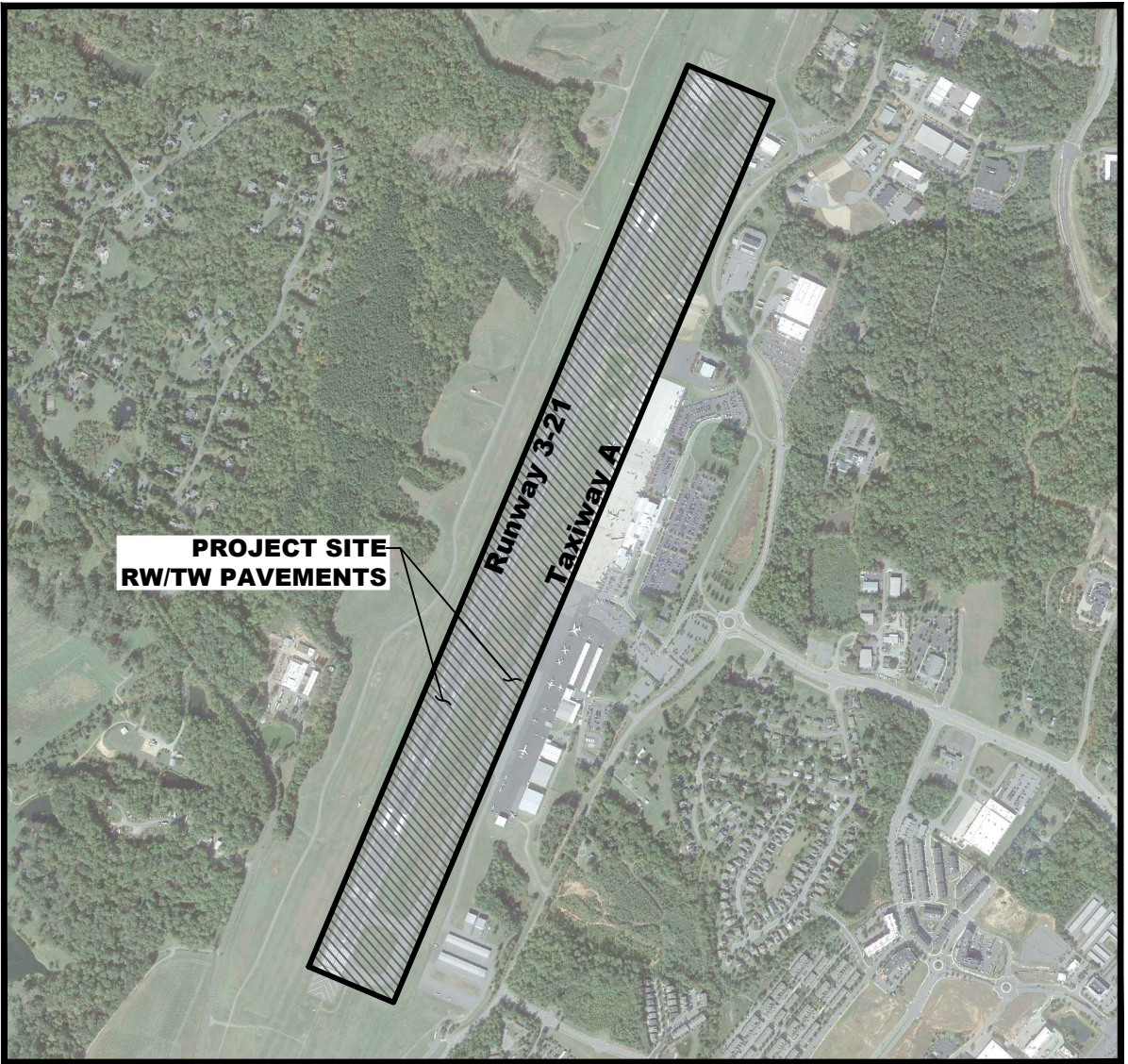
# RUNWAY 3-21 AND TAXIWAY A PAVEMENT MAINTENANCE

RS&H PROJECT NUMBER: 10541892013



LOCATION MAP  
N.T.S.

CHO -  
CHARLOTTESVILLE  
ALBEMARLE  
AIRPORT



VICINITY MAP  
SCALE 1" = 900'  
NORTH

MARCH 2025  
BID DOCUMENTS

#### ABBREVIATIONS

ABC - AGGREGATE BASE COURSE  
AC/ACP - ASPHALTIC CONCRETE PAVEMENT  
ACI - AMERICAN CONCRETE INSTITUTE  
ADG - AIRPLANE DESIGN GROUP  
AIP - AIRPORT IMPROVEMENT PROGRAM  
AOA - AIRCRAFT OPERATIONS AREA  
APPROX. - APPROXIMATE  
ASIG - AIRCRAFT SERVICE INTERNATIONAL GROUP  
ASR - AIRPORT SURVEILLANCE RADAR  
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS  
ATCT - AIR TRAFFIC CONTROL TOWER  
BLDG - BUILDING  
BO - BOTTOM OF  
B.O.B. - BOTTOM OF BANK  
BOP - BOTTOM OF PIPE  
BOD - BOTTOM OF DUCT  
BODWP - BOTTOM OF DOUBLE WALL PIPE  
BOTT. - BOTTOM  
CL/C - CENTERLINE  
C - CONDUIT  
CBR - CALIFORNIA BEARING RATIO  
CLR - CLEARANCE  
COM - COMMUNICATION  
CONC - CONCRETE  
CONN - CONNECTION  
CONT - CONTINUOUS  
CS - CARBON STEEL  
CSSO - CONTRACTOR SAFETY AND SECURITY OFFICER  
DBL - DOUBLE  
DETL - DETAIL  
DIP - DUCTILE IRON PIPE  
DIA - DIAMETER  
DIAG. - DIAGONAL  
DWG - DRAWING  
E - EASTING  
EA - EACH  
EG - EXISTING GROUND  
EL/ELEV - ELEVATION  
ELEC - ELECTRICAL  
ELL - ELBOW  
EOP - EDGE OF PAVEMENT  
EX/EXST/EXIST - EXISTING

FAA - FEDERAL AVIATION ADMINISTRATION  
FH - FIRE HYDRANT  
FO - FIBER OPTIC  
FOD - FOREIGN OBJECT DEBRIS  
FAR - FEDERAL AVIATION REGULATIONS  
GALV - GALVANIZED  
GND. - GROUND  
GNE - GROUNDWATER NOT ENCOUNTERED  
GRS - GALVANIZED RIGID STEEL  
GSE - GROUND SERVICE EQUIPMENT  
GV - GAS VALVE  
GWL - GROUND WATER LEVEL  
HRT - HORIZONTAL  
HP - HYDRANT PIT  
HPV - HIGH POINT VENT  
ID - IDENTIFICATION  
I.D. - INNER DIAMETER  
IE/INV - INVERT ELEVATION / INVERT  
I.F. - INSULATING FLANGE  
ISO - ISOLATION  
IVP - ISOLATION VALVE PIT  
KIP - 1,000 LBS  
L - LIGHTING  
LB - POUND  
LEO - LAW ENFORCEMENT OFFICER  
LF - LINEAR FEET  
LOD - LIMITS OF GRADING  
LPD - LOW POINT DRAIN  
LT - LEFT  
MAX - MAXIMUM  
MECH - MECHANICAL  
MH - MANHOLE  
MIN - MINIMUM  
MON - MONITORING (WELL)  
MSL - MEAN SEA LEVEL  
N - NOTHING OR NO. OF BLOWS  
NAD - NORTH AMERICAN DATUM  
NAVAIDS - NAVIGATIONAL AIDS  
NGVD - NATIONAL GEODETIC VERTICAL DATUM  
NO - NUMBER  
NOTAM - NOTICE TO AIRMEN  
NPDES - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

NTP - NOTICE TO PROCEED  
NTS - NOT TO SCALE  
OC - ON CENTER  
OD - OUTER DIAMETER  
OFA - OBJECT FREE AREA  
O/S - OUTSIDE  
OZ - OUNCE  
PAPI - PRECISION APPROACH PATH INDICATOR SYSTEM  
PAVT - PAVEMENT  
PC - POINT OF CURVATURE  
PCC - PORTLAND CEMENT CONCRETE  
PCSM - POST CONSTRUCTION STORMWATER MANAGEMENT PLAN  
PERF - PERFORATED  
PF - PLUDCO FLANGE  
PG - PRESSURE GAUGE  
PG - PROPOSED GRADE  
PK - PEAK  
PKG - PARKING  
PS - PIPE SUPPORT  
PSF - POUNDS PER SQUARE FOOT  
PSI - POUNDS PER SQUARE INCH  
PT - POINT OF TANGENCY  
PVC - POLYVINYL CHLORIDE  
PVI - POINT OF VERTICAL INTERSECTION  
RCP - REINFORCED CONCRETE PIPE  
RED - REDUCER  
REF - REFERENCE  
REIL - RUNWAY END IDENTIFIER LIGHT SYSTEM  
REINF - REINFORCED  
REQ/REQ'D - REQUIRED  
RF - RAISED FACE  
RIM - RIM ELEVATION  
RLD - RESPONSIBLE LAND DISTURBER  
ROFZ - RUNWAY OBJECT FREE ZONE  
RPR - RESIDENT PROJECT REPRESENTATIVE  
RPZ - RUNWAY PROTECTION ZONE  
RSA - RUNWAY SAFETY AREA  
RT - RIGHT  
RW - RUNWAY  
S/SAN - SANITARY  
SC - SECONDARY CONTAINMENT  
SCH/SCHED - SCHEDULE

SD - STORM DRAIN  
SIDA - SECURITY IDENTIFICATION DISPLAY AREA  
SF - SQUARE FOOT  
SF/GAL - SQUARE FEET PER GALLON  
SPT - STANDARD PENETRATION TEST  
SS - STAINLESS STEEL  
STA - STATION  
STD - STANDARD  
STL - STEEL  
STRUCT - STRUCTURE  
SW - SINGLE WALL  
TBR - TO BE REMOVED  
TDZ - TOUCHDOWN ZONE  
TEL - TELEPHONE  
TEMP - TEMPORARY  
THD - THREADED  
THK - THICK  
T/L - TAXILANE  
T.O. - TOP OF  
T.O.B. - TOP OF BANK  
TOC - TOP OF CONCRETE  
TOD - TOP OF DUCT  
TOFA - TAXIWAY OBJECT FREE AREA  
TSA - TAXIWAY SAFETY AREA  
T/W - TAXIWAY  
TYP - TYPICAL  
UD - UNDERDRAIN  
UG - UNDERGROUND  
UMH - UNIDENTIFIED MANHOLE  
UNO - UNLESS NOTED OTHERWISE  
VAC - VACUUM  
VERT - VERTICAL  
W - WATER  
WTR - WATER  
WI - WITH  
WM - WATER MAIN  
WP - WEATHER PROOF  
WV - WATER VALVE



ENGINEER'S SEAL AND SIGNATURE

**RS&H**

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Drawing: P:\Charlottesville\_Albemarle\10221892\_CHO\_Civil\_On\_Call\_2022\_2026\10541892013\03.00 Project Execution\03.05 Dwggs\_Models\CAD\CHO-PWT-Only Estimate and Sheet Index.dwg - Plotted on: 5/18/25 - Plotted by: Yankey, Raymond

QUANITITY SUMMARY

ITEM NO.	SPEC REFER.	WORK ITEM DESCRIPTION	UNIT	QUANTITY	AIP ELIGIBLE
1	X-102-10.1	SAFETY AND SECURITY	LSUM	1	YES
2	C-105	MOBILIZATION	LSUM	1	YES
3	P-101-5.1	ROUTE AND SEAL CRACKS WIDER THAN 1/4"	LF	66,667	YES
4	P-101-5.2	WIDEN, ROUTE, AND SEAL CRACKS LESS THAN 1/4"	LF	33,333	YES
5	P-101-5.3	REMOVAL OF FOREIGN SUBSTANCES/CONTAMINATES	SF	225,000	NO
6	P-101-5.4	COLD MILLING - 2"	SY	100	NO
7	P-403-8.1	SM-12.5D BITUMINOUS SURFACE AND BASE COURSE	TON	20	NO
8	P-603-5.1	EMULSIFIED TACK COAT	GAL	20	NO
9	P-620-5.1	FULL APPLICATION, MARKINS (WHITE), WITH REFLECTIVE MEDIA	SF	76,974	YES
10	P-620-5.2	FULL APPLICATION, MARKINGS (YELLOW), WITH REFLECTIVE MEDIA	SF	23,830	YES
11	P-620-5.3	FULL APPLICATION, MARKINGS (RED), WITH REFLECTIVE MEDIA	SF	1,760	YES
12	P-620-5.4	FULL APPLICATION, MARKINGS (BLACK), WITHOUT REFLECTIVE MEDIA	SF	46,142	YES
13	P-620-5.5	REFLECTIVE MEDIA	LB	7,482	YES
14	P-621-5.1	GROOVING	SY	80	NO

SHEET INDEX

NO.	DWG NO.	SHEET NAME
1	G001	TITLE
2	G002	QUANTITY SUMMARY AND SHEET INDEX
3	G003	CONTRACT LAYOUT PLAN
4	G004	CONSTRUCTION SAFETY PHASING PLAN
5	G005	CONSTRUCTION SAFETY AND PHASING NOTES
6	G006	CONSTRUCITON SAFETY AND PHASING DETAILS
7	C101	PAVEMENT REPAIR PLAN
8	C150	CRACK SEALING AND SURFACE TREATMENT DETAILS
9-15	C301-C307	PAVEMENT MARKING PLANS 1-7
16-19	C350-C353	PAVEMENT MARKING DETAILS 1-4

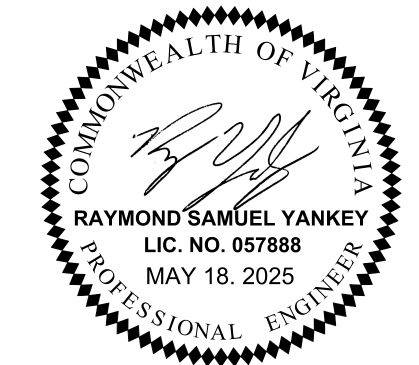


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CHARLOTTESVILLE  
ALBEMARLE  
AIRPORT  
(CHO)

RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: MARCH 2025  
REVIEWED BY: CCA  
DRAWN BY: LSB / RKH  
DESIGNED BY: RSY

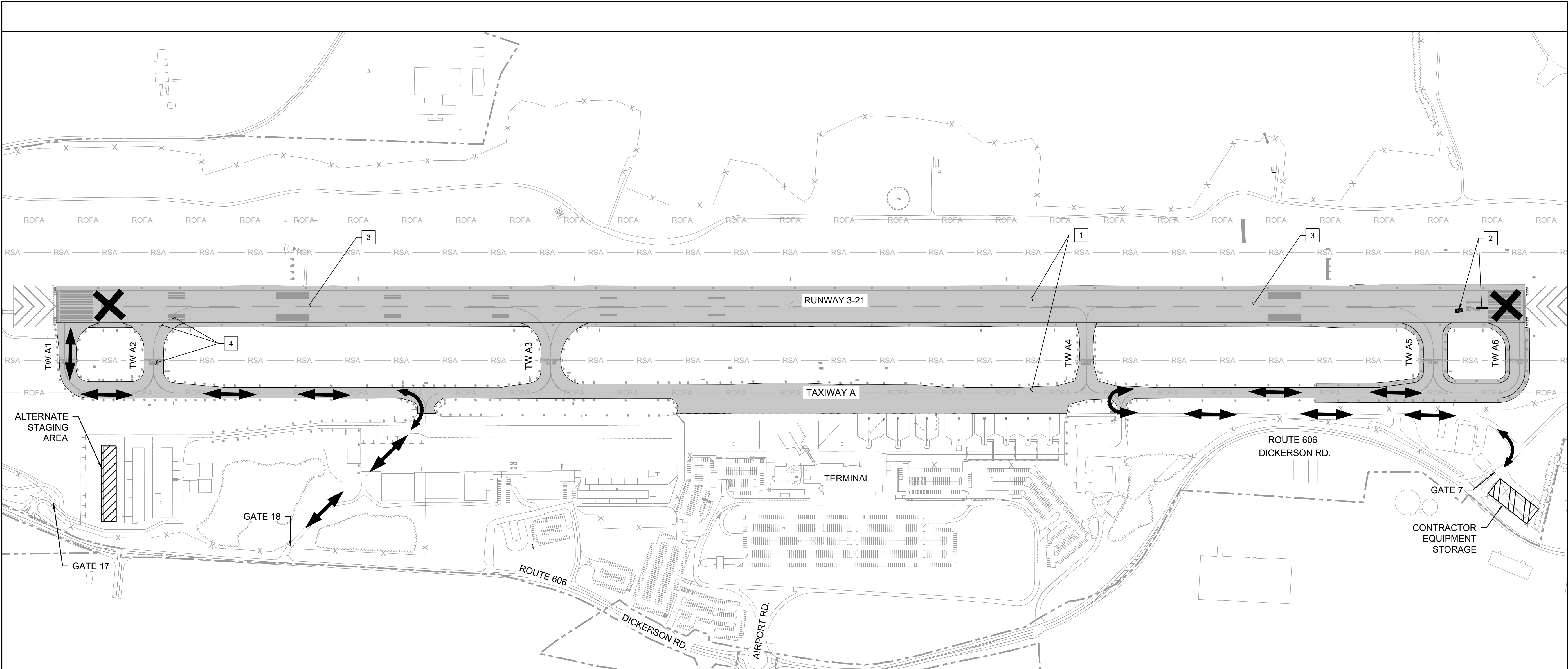
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SHEET TITLE

QUANTITY  
SUMMARY  
AND  
SHEET INDEX

SHEET NUMBER  
G002  
SHEET 2 OF 19

BID DOCUMENTS

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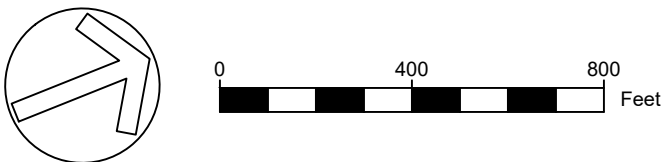


LEGEND

- PROJECT AREA
- RSA RUNWAY SAFETY AREA
- ROFA RUNWAY OBJECT FREE AREA
- APPROX. AIRPORT PROPERTY LINE
- EXISTING SECURITY FENCE
- CONTRACTOR HAUL ROUTES
- RUNWAY CLOSURE CROSS

PROJECT DESCRIPTION

- 1 CRACK SEALING THROUGHOUT RUNWAY 3-21 AND TAXIWAYS.
- 2 2-INCH MILL AND OVERLAY PATCHING
- 3 RUBBER REMOVAL ON RUNWAY 3-21
- 4 RUNWAY AND TAXIWAY REMARKING WITHIN MOVEMENT AREA



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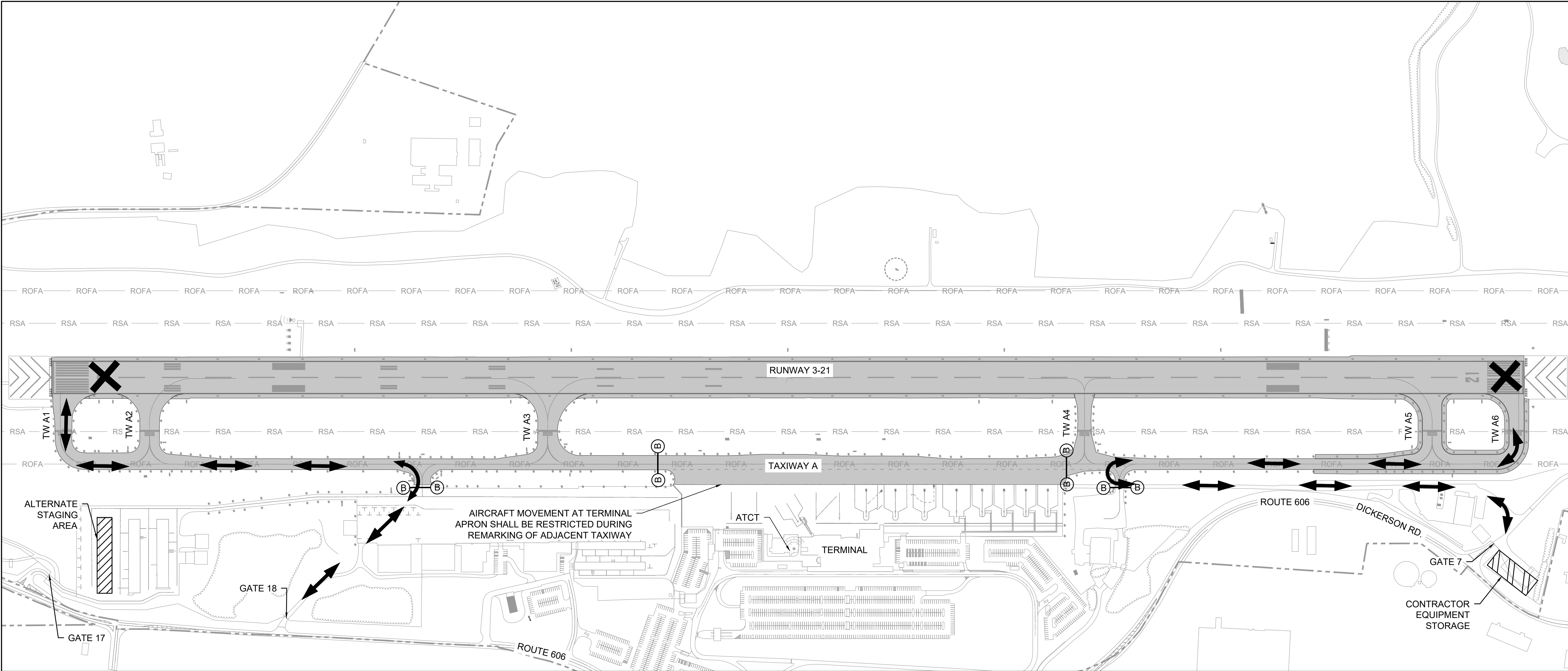
CONTRACT  
LAYOUT  
PLAN

SHEET NUMBER  
**G003**  
SHEET 3 OF 19

BID DOCUMENTS



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PROJECT FEATURES

- THIS PROJECT INCLUDES:
  - CRACK SEALING THROUGHOUT RUNWAY 3-21 AND TAXIWAY A AND ASSOCIATED TAXIWAY CONNECTORS
  - 2-INCH MILL AND OVERLAY PATCHING
  - RUBBER REMOVAL (RUNWAY)
  - RUNWAY AND TAXIWAY REMARKING
- ALL WORK SHOWN ON THIS SHEET SHALL BE INCIDENTAL TO ITEM X-102, SAFETY AND SECURITY ITEMS AND C-105, MOBILIZATION.
- OWNER WILL PROVIDE AND MAINTAIN RUNWAY CLOSURE LIGHTED X's

PROJECT PHASING

ADMINISTRATIVE PHASE:  
THIS PHASE INCLUDES SHOP DRAWING REVIEW AND CONTRACTOR MATERIAL ACQUISITION. NO CONSTRUCTION OR MOBILIZATION OCCURS DURING THE ADMINISTRATIVE PHASE - 30 DAYS.

WORK HOURS - 10 NIGHT(S) (12:00 AM - 5:00 AM)  
THIS WORK INCLUDES MOBILIZATION, LIGHTED CLOSURE CROSS PLACEMENT, PAVEMENT REPAIR PATCHING, BARRICADE PLACEMENT, FULL APPLICATION OF PAINT IN AREAS SHOWN ON PLANS, RUNWAY GROOVING, AND DEMOBILIZATION.

AIRFIELD CLOSURE

- CONTRACTOR SHALL STAGE VACUUM OR SWEEPING EQUIPMENT ON-SITE. CONTRACTOR SHALL KEEP BOTH ENDS OF THE RUNWAY CLEAN OF FOD, MUD AND OTHER DEBRIS WHILE USING BOTH ENDS OF THE RUNWAY TO ACCESS THE WORK AREA.
- CONTRACTOR SHALL PLACE OWNER-FURNISHED RUNWAY CLOSURE CROSSES AT THE BEGINNING OF THE CLOSURE AND REMOVE AT THE END OF THE CLOSURES AFTER APPROVAL FROM AIRPORT OPERATIONS. CONTRACTOR TO ENSURE AIRFIELD IS CLEARED, FREE OF DEBRIS, MATERIALS, AND EQUIPMENT AT THE END OF WORK EACH NIGHT.
- CONTRACTOR SHALL NOTIFY AIRPORT OPERATIONS EACH MORNING BEFORE THE AIRPORT OPENS.

LEGEND

- CONTRACTOR HAUL ROUTES
- WORK AREA DURING AIRPORT CLOSURE
- RSA EXISTING RUNWAY SAFETY AREA
- ROFA EXISTING RUNWAY OBJECT FREE AREA
- RUNWAY CLOSURE CROSS
- LOW PROFILE BARRICADE

PRINT IN COLOR

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SHEET TITLE		

CONSTRUCTION  
SAFETY  
AND PHASING  
PLAN

SHEET NUMBER  
**G004**  
SHEET 4 OF 19  
BID DOCUMENTS



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SAFETY

1.

THE CONTRACTOR SHALL ACQUAINT HIS SUPERVISORS AND EMPLOYEES OF THE AIRPORT ACTIVITY AND OPERATIONS THAT ARE INHERENT TO CHARLOTTESVILLE ALBEMARLE AIRPORT AND SHALL CONDUCT THE CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND GUIDELINES ON SAFETY AS SPECIFIED IN SAFETY NOTE 10. CONTRACTOR SHALL SUBMIT A SAFETY PLAN TO THE AIRPORT WHICH WILL BE MONITORED ACCORDINGLY. CONSTRUCTION SHALL NOT COMMENCE UNTIL THIS PLAN IS APPROVED BY THE AIRPORT. THE SAFETY PLAN SHALL BE SUBMITTED PRIOR TO THE NTP.
2.

CONTRACTOR TO PROVIDE A DESIGNATED ON-CALL EMPLOYEE WHO IS AVAILABLE TO QUICKLY RESPOND TO THE PROJECT SITE 24-HOURS A DAY.
3.

ALL CONTRACTOR VEHICLES THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT IN OR NEAR THE ACTIVE AIRCRAFT OPERATIONS AREA (AOA) SHALL BE REQUIRED TO HAVE THEIR COMPANY LOGO ON BOTH SIDES OF THE VEHICLE AND SHALL DISPLAY IN FULL VIEW A FLASHING AMBER (YELLOW) DOME-TYPE LIGHT VISIBLE IN ALL DIRECTIONS ABOVE THE VEHICLE OR A 3' X 3' OR LARGER, ORANGE AND WHITE CHECKERBOARD FLAG, EACH CHECKERBOARD COLOR BEING 1-FOOT SQUARE, (SEE CONSTRUCTION SAFETY FLAG DETAIL ON SHEET G004), AND ESCORTED UNDER THE CONTROL OF ONE CONTRACTOR MOBILE (TWO-WAY) RADIO OPERATOR ON THE JOB AT ALL TIMES. ANY VEHICLE OPERATING IN OR NEAR THE ACTIVE AOA DURING THE HOURS OF DARKNESS SHALL BE EQUIPPED WITH A FLASHING AMBER (YELLOW) DOME LIGHT, MOUNTED ON TOP OF THE VEHICLE AND BE OF SUCH INTENSITY TO CONFORM TO LOCAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES. ALL RADIO EQUIPPED VEHICLES SHALL COORDINATE ATCT CALL SIGNS WITH AIRPORT OPERATIONS PRIOR TO OPERATING ONSITE.
4.

ALL NON-RADIO EQUIPPED CONTRACTOR VEHICLES THAT ARE REQUIRED TO OPERATE ON, NEAR OR ACROSS ACTIVE RUNWAYS, TAXIWAYS, APRONS, AND RUNWAY APPROACH AND PROTECTION ZONES SHALL DO SO UNDER THE DIRECT CONTROL OF A RADIO EQUIPPED ESCORT VEHICLE. ESCORT VEHICLES, OPERATORS, AND RADIO EQUIPMENT SHALL BE APPROVED BY THE AIRPORT OPERATIONS STAFF. ESCORT VEHICLES SHALL BE MARKED AND LIGHTED AS DESCRIBED IN PARAGRAPH NO. 2 ABOVE AND SHALL BE EQUIPPED WITH AN APPROVED AVIATION BAND RADIO. RADIO EQUIPPED VEHICLES SHALL CONTINUOUSLY MONITOR GROUND CONTROL FREQUENCY 121.9 MHz. IF WORK IS PERFORMED DURING PERIODS OF TIME WHEN THE AIR TRAFFIC CONTROL TOWER IS CLOSED, A FREQUENCY OF 133.1 MHz SHALL BE MONITORED. ALL AIRCRAFT TRAFFIC ON RUNWAYS, TAXIWAYS AND APRONS SHALL HAVE PRIORITY OVER CONTRACTOR'S TRAFFIC.
5.

NO RUNWAY, TAXIWAY, APRON OR AIRPORT ROADWAY SHALL BE CLOSED WITHOUT WRITTEN APPROVAL OF AIRPORT OPERATIONS STAFF. TO ENABLE NECESSARY "NOTICES TO AIRMEN" (NOTAM) OR ADVISORIES TO AIRPORT SERVICES OR TENANTS, A MINIMUM OF 7 DAYS WRITTEN NOTICE REQUESTING CLOSING SHALL BE DIRECTED TO THE RESIDENT PROJECT REPRESENTATIVE (RPR) WHO WILL COORDINATE THE REQUEST WITH AIRPORT OPERATIONS STAFF.
6.

ANY CONSTRUCTION ACTIVITY WITHIN 250 FEET OF AN ACTIVE RUNWAY CENTERLINE OR 85.5 FEET FROM AN ACTIVE TAXIWAY CENTERLINE OR OPEN EXCAVATIONS IN EXCESS OF THREE INCHES DEEP WITHIN THE ABOVE AREAS, WILL REQUIRE CLOSURE OF THE AFFECTED RUNWAY OR TAXIWAY, UNLESS OTHERWISE APPROVED BY AIRPORT OPERATIONS. CLOSURE REQUIRES THE SAME PROVISIONS AS PARAGRAPH NO. 4 ABOVE.
7.

OPEN FLAME WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS APPROVED BY THE RPR AND/OR AIRPORT OPERATIONS STAFF. IF APPROVED, ADEQUATE FIRE AND SAFETY PRECAUTIONS MUST BE TAKEN.
8.

STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT JET BLAST OR WIND CONDITIONS IN EXCESS OF TWENTY MILES PER HOUR. STOCKPILE HEIGHT SHALL BE LESS THAN 15 FEET AND OUTSIDE THE RUNWAY AND TAXIWAY OBJECT FREE AREAS. IN ADDITION, STOCKPILED MATERIAL SHALL HAVE SILT FENCE LOCATED AROUND THE MATERIAL TO PREVENT FOD FROM MOVING ONTO THE AIRFIELD PAVEMENTS OR POLLUTING WATERCOURSES. STOCKPILED MATERIAL SHALL NOT PENETRATE THE 7:1 TRANSITIONAL SLOPE OF THE RUNWAY AFFECTED BY GRADING OPERATIONS.
9.

OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIAL LOCATED IN OR NEAR THE AOA SHALL BE PROMINENTLY MARKED WITH APPROVED FLAGS AND LOW-PROFILE BARRICADES AND LIGHTED BY APPROVED LIGHT UNITS DURING HOURS OF RESTRICTED VISIBILITY AND DARKNESS.
10.

DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEARS, PROPELLERS OR BEING INGESTED IN JET ENGINES SHALL NOT BE ALLOWED ON OR NEAR ACTIVE AIRCRAFT MOVEMENT AREAS. IF THESE MATERIALS ARE OBSERVED TO BE ON OR NEAR ACTIVE AIRCRAFT MOVEMENT AREAS, THEY WILL BE REMOVED IMMEDIATELY AND CONTINUOUSLY DURING CONSTRUCTION. IF THESE MATERIALS ARE OBSERVED AT ANYTIME, THE CONTRACTOR SHALL REMOVE THEM IMMEDIATELY. A BROOM TRUCK OR VACUUM TRUCK (SAFETY NOTE 16) SHALL BE USED TO IMMEDIATELY REMOVE DUST, DEBRIS, OR FOD.
11.

THE CONTRACTOR IS DIRECTED TO COMPLY WITH AND ACQUAINT HIS/HER EMPLOYEES WITH THE FOLLOWING SAFETY GUIDELINES, RELATED MATERIALS AND FAA ADVISORY CIRCULARS:

150/5200-18C "AIRPORT SAFETY SELF-INSPECTION"

150/5210-5D "PAINTING, MARKING & LIGHTING OF VEHICLES USED ON AIRPORTS"

150/5370-2G "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION"

150/5370-13A "OFF-PEAK CONSTRUCTION OF AIRPORT PAVEMENTS USING HOT-MIX ASPHALT"
- COPIES OF THESE DOCUMENTS ARE AVAILABLE ONLINE AT:  
[HTTP://WWW.FAA.GOV/AIRPORTS/RESOURCES/ADVISORY\\_CIRCULARS/](http://www.faa.gov/airports/resources/advisory_circulars/)
12.

THE TERM CONTRACTOR MEANS THE PRIME CONTRACTOR, HIS/HER SUBCONTRACTORS, SUPPLIERS, MATERIAL MEN, EMPLOYEES, AND OTHERS WHO WILL PERFORM SERVICES FOR OR IN CONJUNCTION WITH THE PRIME CONTRACTOR.
13.

CONSTRUCTION DURING THE PROJECT MAY BE HALTED AT ANY TIME BY THE RESIDENT PROJECT REPRESENTATIVE, ENGINEER AND/OR AIRPORT OPERATIONS STAFF IF IT IS DETERMINED TO BE IN THE BEST INTEREST OF AIRPORT OPERATIONS OR SAFETY. THE CONTRACTOR MAY BE DIRECTED TO REMOVE EQUIPMENT AND/OR EVACUATE THE SITE IN ORDER TO ENABLE AIRCRAFT OPERATIONS. NECESSARY EXTENSIONS IN CONTRACT TIME MAY BE GRANTED OR A STOP WORK ORDER WILL BE ISSUED DUE TO THESE DELAYS. HOWEVER, THERE WILL BE NO ADJUSTMENTS IN CONTRACT PRICE DUE TO THESE DELAYS.
14.

THE CONTRACTOR SHALL PREPARE SAFETY PLANS SPECIFIC TO DAYTIME AND NIGHTTIME CONSTRUCTION OPERATIONS, AS WELL AS A CONTINGENCY PLAN TO ADDRESS CASES OF ABNORMAL FAILURES OR UNEXPECTED DISASTERS. THE CONTRACTOR SHALL ALSO PREPARE A DESTRUCTIVE WEATHER PLAN TO SET FORTH GENERAL GUIDANCE AND INFORMATION FOR THE
- CONTRACTOR TO COORDINATE PREPAREDNESS PLANS WHEN DESTRUCTIVE WEATHER THREATENS THE AIRPORT. THE DESTRUCTIVE WEATHER PLAN FORM IS PROVIDED IN THE SPECIFICATIONS.
15.

ALL COMMUNICATION WITH THE AIRPORT SHALL BE THROUGH THE ENGINEER/RPR.
16.

THE CONTRACTOR SHALL PROVIDE A VACUUM TRUCK AT THE STARTUP OF CONSTRUCTION TO CONTINUOUSLY VACUUM ALL PAVEMENTS AFFECTED BY CONSTRUCTION. THE VACUUM TRUCK SHALL REMAIN ON-SITE FOR THE DURATION OF THE PROJECT AND SHALL BE AVAILABLE AT THE DISCRETION OF THE OWNER TO VACUUM PAVEMENT AREAS ADJACENT TO THE CONSTRUCTION AREAS TO ENSURE NO FOD IS PRESENT ON PAVEMENTS WITHIN 500 FEET OF ANY CONSTRUCTION AREA. THE COST OF THE VACUUM TRUCK SHALL BE INCLUDED IN THE SAFETY AND SECURITY BID ITEM.
17.

TRANSPORTATION: NO PERSONNEL MAY OPERATE VEHICLES ON THE AIRSIDE UNLESS THEY HAVE FIRST COMPLETED AND PASSED AN AIRPORT APPROVED MOVEMENT AREA AND TRAIN THE TRAINER TRAINING COURSES. ALL PERSONNEL OPERATING VEHICLES ON SITE MUST ATTEND AND COMPLETE THE AIRPORT'S MOVEMENT AREA TRAINING COURSE AND TRAIN THE TRAINER COURSE PRIOR TO OPERATING VEHICLES ONSITE. ONLY INDIVIDUALS WHO HAVE COMPLETED THESE COURSES MAY PROVIDE ESCORT OF DELIVERY AND OTHER CONTRACTOR VEHICLES.
18.

THE ENGINEER WILL ARRANGE WITH AIRPORT OPERATIONS FOR INSPECTION PRIOR TO OPENING FOR AIRCRAFT USE ANY RUNWAY OR TAXIWAY THAT HAS BEEN CLOSED FOR WORK, ON OR ADJACENT THERETO, OR THAT HAS BEEN USED FOR A CROSSING POINT OR HAUL ROUTE BY THE CONTRACTOR.
19.

THE CONTRACTOR SHALL INSTALL ALL REQUIRED BARRICADES AT DESIGNATED PLAN LOCATIONS, RUNWAY CLOSURE MARKERS, HAVE ALL ACCESS GATES GUARDED AND LOCKABLE, HAVE ALL EQUIPMENT EITHER FLAGGED OR FITTED WITH FLASHING AMBER DOME-TYPE LIGHT ON TOP OF THE VEHICLES, INSTALL ALL TEMPORARY TAXIWAY OR RUNWAY LIGHTING AND/OR SIGNS. ALL THESE ITEMS SHALL CONSIST OF THE SAFETY AND SECURITY SYSTEM. THE CONTRACTOR SHALL INSTALL THE COMPONENTS OF THE SYSTEM AT THE APPROPRIATE TIMES AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INSPECT EVERY ASPECT OF THE SAFETY AND SECURITY SYSTEM ON A DAILY BASIS AND ENSURE ALL COMPONENTS ARE FUNCTIONING PROPERLY. THE RESIDENT PROJECT REPRESENTATIVE (OWNER'S REPRESENTATIVE) SHALL ALSO DAILY INSPECT THE SYSTEM AND IF ANY DEFICIENCIES ARE NOTED, THE CONTRACTOR SHALL HAVE THAT DAY'S PRORATED SAFETY AND SECURITY COST PERMANENTLY DEDUCTED FROM THE CONTRACTOR'S EARNINGS. THE SYSTEM ELEMENTS TO BE INSPECTED WITH DEFICIENCIES NOTED ARE AS FOLLOWS:

\*BARRICADES SET PROPERLY AND ALL FLASHING WARNING LIGHTS OPERATING PROPERLY.

\*ALL CONTRACTOR PERSONNEL AND EQUIPMENT ACCESS GATES MANNED.

\*ALL SECURITY PROCEDURES IN PLACE.

\*ALL EQUIPMENT FLAGGED OR OUTFITTED WITH FLASHING AMBER DOME-TYPE LIGHTS.

\*CONTRACTOR USE OF UNAUTHORIZED AIRPORT ACCESS GATES CHECKED.

\*INSTALLATION OF ALL TEMPORARY TAXIWAY OR RUNWAY LIGHTING AND/OR SIGNAGE.
20.

THE CONTRACTOR SHALL MAKE A CONCERTED EFFORT TO ENSURE ALL SAFETY AND SECURITY ITEMS ARE IN PROPER WORKING ORDER EACH DAY DUE TO THE CONSIDERABLE LIABILITY ASSOCIATED WITH CONSTRUCTION ON AN ACTIVE AIRFIELD.
- SECURITY
1.

GENERAL INTENT: IT IS INTENDED THAT THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE AIRPORT SECURITY PLAN AND WITH THE SECURITY REQUIREMENTS SPECIFIED HEREIN BY AIRPORT OPERATIONS STAFF. THE CONTRACTOR SHALL DESIGNATE TO THE RPR AND AIRPORT OPERATIONS STAFF, IN WRITING, THE NAME OF HIS "CONTRACTOR SECURITY & SAFETY OFFICER (CSSO)." THE CSSO SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS FOR THE CONTRACT. THE CSSO SHALL PROVIDE TELEPHONE NUMBERS WHICH ALLOW THE RPR AND/OR AIRPORT OPERATIONS STAFF THE ABILITY TO CONTACT THE CSSO 24 HOURS A DAY.
2.

CONTRACTOR PERSONNEL SECURITY ORIENTATION: THE CSSO SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON SECURITY REQUIREMENTS. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON SECURITY REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.
3.

ACCESS TO THE SITE: CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS. NO OTHER ACCESS POINTS SHALL BE ALLOWED UNLESS APPROVED BY AIRPORT OPERATIONS. ALL CONTRACTOR TRAFFIC AUTHORIZED TO ENTER THE SITE SHALL BE EXPERIENCED IN THE ROUTE OR GUIDED BY AUTHORIZED CONTRACTOR PERSONNEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON THE SITE, AND FOR THE OPERATION AND SECURITY OF THE ACCESS GATE TO THE SITE. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE SITE. ACCESS GATES TO THE SITE SHALL BE LOCKED AND SECURED AT ALL TIMES WHEN NOT ATTENDED BY THE CONTRACTOR. IF THE CONTRACTOR CHOOSES TO LEAVE ANY ACCESS GATE OPEN, IT SHALL BE ATTENDED BY CONTRACTOR PERSONNEL WHO ARE FAMILIAR WITH THE REQUIREMENTS OF THE AIRPORT OPERATIONS SECURITY PROGRAM. THE CONTRACTOR IS RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS DEPOSITED ALONG THE ACCESS ROUTE AS A RESULT OF HIS CONSTRUCTION TRAFFIC. DIRECTIONAL SIGNING FROM THE ACCESS GATE ALONG THE DELIVERY ROUTE TO THE STORAGE AREA, PLANT SITE OR WORK SITE SHALL BE AS DIRECTED BY AIRPORT OPERATIONS. THE CONTRACTOR SHALL DAISY CHAIN ALL PERMANENT AND TEMPORARY ACCESS GATES TO THE PROJECT SITE AND STAGING AREAS.
4.

MATERIALS DELIVERY TO THE SITE: ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE WORK SITE WILL USE AS A DELIVERY ADDRESS, THE STREET NAME ASSIGNED TO THE ACCESS POINT AT THE CONTRACTOR'S STAGING SITE AT THE AIRPORT, "DICKERSON ROAD." THE NAME "CHARLOTTESVILLE ALBEMARLE AIRPORT" SHALL NOT BE USED IN THE DELIVERY ADDRESS AT ANY TIME. THIS WILL PRECLUDE DELIVERY TRUCKS FROM ENTERING INTO THE TERMINAL COMPLEX, OR TAKING SHORT CUTS THROUGH THE PERIMETER GATES AND ENTERING INTO AIRCRAFT OPERATIONS AREAS INADVERTENTLY.
5.

CONSTRUCTION AREA LIMITS: THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, PLANT SITE, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS DEFINED AS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL ERECT AND MAINTAIN AROUND THE PERIMETER OF THESE AREAS SUITABLE FENCING, MARKING AND WARNING DEVICES VISIBLE FOR DAY/NIGHT USE. TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHTS WILL BE REQUIRED AT
- CRITICAL ACCESS POINTS. TYPE OF MARKING AND WARNING DEVICES SHALL BE APPROVED BY AIRPORT OPERATIONS.
6.

IDENTIFICATION -- PERSONNEL: THE CHARLOTTESVILLE ALBEMARLE AIRPORT RESERVES THE RIGHT TO REQUIRE AIRPORT BADGING FOR CONTRACTOR'S EMPLOYEES DURING THE COURSE OF THIS CONSTRUCTION PROJECT. NO BADGE WILL BE ISSUED TO ANY PERSON UNTIL A REVIEW OF THE REQUIRED PAPERWORK HAS BEEN COMPLETED BY AIRPORT OPERATIONS AND ALL REQUIREMENTS ARE MET. PAPERWORK SHALL BE SUBMITTED AS DIRECTED BY AIRPORT OPERATIONS STAFF BEFORE ISSUANCE OF ANY BADGE. THE CONTRACTOR AND ITS STAFF ARE RESPONSIBLE FOR ATTENDING TRAINING AND COMPLETING SECURITY BADGE APPLICATIONS, WHICH WILL INCLUDE AIR/GROUND RADIO, TAXIWAY AND AIRPORT FAMILIARIZATION. ESTIMATED TIME FOR COMPLETION OF TRAINING IS ONE (1) HOUR. AIRPORT OPERATIONS SHOULD BE NOTIFIED IMMEDIATELY IF A BADGE IS LOST. REPLACEMENT BADGES COST \$35. CONTRACTOR TO PROVIDE THE ENGINEER/RPR WITH A LIST OF INDIVIDUALS REQUIRING BADGING.
7.

FINES: PAYMENT OF ALL FINES ASSESSED TO CHARLOTTESVILLE ALBEMARLE AIRPORT DUE TO VIOLATIONS BY THE CONTRACTOR OF FAA REGULATIONS OR SAFETY REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8.

VEHICLE IDENTIFICATION: THE CONTRACTOR, THROUGH THE CSSO, SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUBCONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE SITE.
9.

VEHICLE PARKING: CONTRACTOR EMPLOYEE VEHICLES SHALL BE RESTRICTED TO THE CONTRACTOR'S EMPLOYEE PARKING AREA AND ARE NOT ALLOWED ON THE AOA AT ANY TIME.
- SAFETY PLAN NARRATIVE
- THE SAFETY PLAN SHALL CONSIST OF SHEET G005, ALONG WITH REQUIREMENTS ESTABLISHED IN THE CONTRACT DOCUMENTS AND AS SET FORTH IN AC 150/5370-2G, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
- A.

THE CONTRACTOR SHALL FOLLOW ALL GUIDELINES AND REQUIREMENTS ESTABLISHED BY AUTHORITIES HAVING JURISDICTION (EITHER LOCAL, STATE OR FEDERAL) RELATING TO HAZARDOUS MATERIALS (HAZMAT) DURING THE LIFE OF THE CONSTRUCTION.
- B.

THE SCOPE OF THIS PROJECT INCLUDES THE MILL AND OVERLAY OF A LOCALIZED AREA OF RUNWAY 3-21, RUNWAY GROOVING IN THAT AREA, TARGETED CRACK SEALING, AND RE-PAINTING OF RUNWAY MARKINGS WITHIN THE PAVEMENT REPAIR AREAS.
- C.

FOR RUNWAY CLOSURES, SEE CONSTRUCTION SAFETY PHASING PLAN SHEET G004.
- D.

BASIS FOR TEMPORARY DISPLACED THRESHOLDS: NOT APPLICABLE.
- E.

BASIS FOR DEVIATING FROM STANDARDS: NOT APPLICABLE.
- F.

TYPE AND HEIGHT (NOT-TO-EXCEED) OF CONSTRUCTION EQUIPMENT:

• TRUCKS (DUMP, FLATBED, PANEL, PICKUP, CONCRETE) - 15 FEET

• FRONT END LOADERS - 15 FEET

• DOZERS - 15 FEET

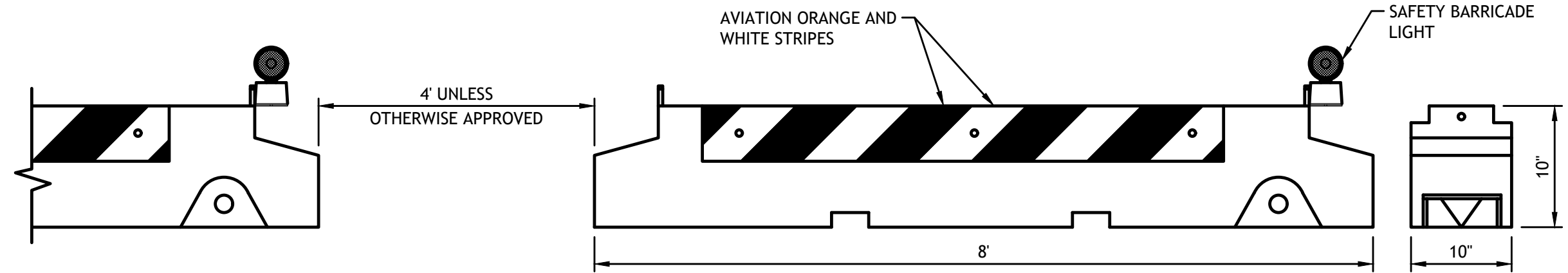
• CRANE - 25 FEET \*

• BATCH PLANT - 60 FEET

• ROLLERS AND COMPACTORS - 15 FEET
- \*CONSTRUCTION EQUIPMENT LOCATIONS SHALL NOT VIOLATE RUNWAY 7:1 TRANSITIONAL SURFACES AND RUNWAY APPROACH ZONE HEIGHT LIMITATIONS EXCEPT UNDER SPECIAL WAIVER CONDITIONS. APPROPRIATE WAIVERS MUST BE OBTAINED BY THE OWNER FROM FAA. CONTRACTOR SHALL NOTIFY AIRPORT OPERATIONS 48 HOURS PRIOR TO USING CRANE.
- \*ALL TEMPORARY EQUIPMENT USED MUST BE EVALUATED IN OE/AAA THOUGH THE FAA, REGARDLESS OF THEIR HEIGHTS.
- | CONSTRUCTION SCHEDULE |                  |                               |
|-----------------------|------------------|-------------------------------|
| PHASE                 | DURATION         | ANTICIPATED NOTICE-TO-PROCEED |
| ADMINISTRATIVE        | 30 CALENDAR DAYS | AUGUST 2025                   |
| AIRFIELD CLOSURE      | 10 CALENDAR DAYS | SEPTEMBER 2025                |
- 
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- 
- CHARLOTTESVILLE  
ALBEMARLE  
AIRPORT  
(CHO)
- RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE
- 
- | REVISIONS |             |      |
|-----------|-------------|------|
| NO.       | DESCRIPTION | DATE |
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- DATE ISSUED: MARCH 2025  
REVIEWED BY: CCA  
DRAWN BY: LSB / RKH  
DESIGNED BY: RSY
- RS&H PROJECT NUMBER  
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SHEET TITLE
- CONSTRUCTION  
SAFETY  
AND PHASING  
NOTES
- SHEET NUMBER  
**G005**  
SHEET 5 OF 19
- BID DOCUMENTS



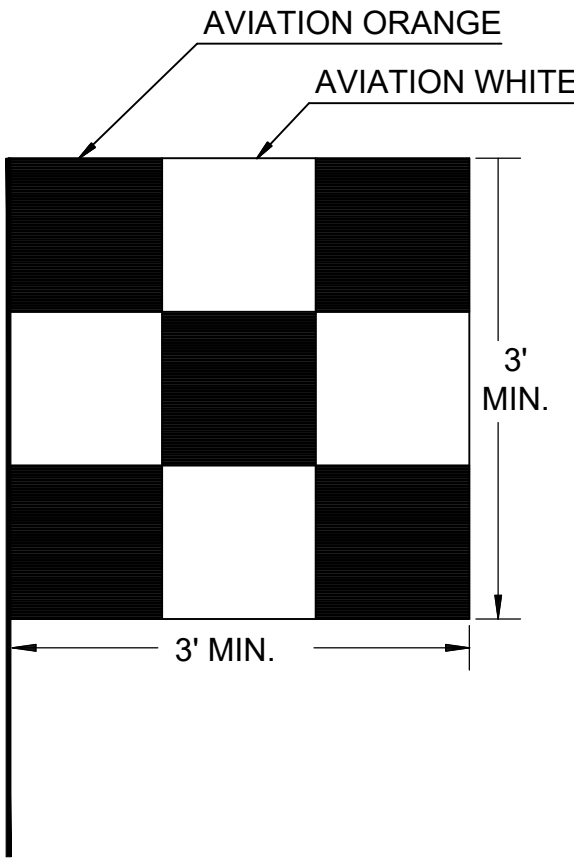
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1  
G006 TYPE 1 BARRICADE DETAIL  
SCALE: N.T.S.

BARRICADE NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRICADES, BARRICADE LIGHTS, AND SANDBAGS/ANCHORS, AS WELL AS PLACEMENT, MAINTENANCE, AND REMOVAL OF BARRICADES. ALL MATERIALS, PLACEMENTS, TRANSPORT, AND MAINTENANCE OF BARRICADES SHALL BE INCIDENTAL TO X-102, SAFETY AND SECURITY.
2. BARRICADES SHALL MEET THE REQUIREMENTS OF FAA AC 150/5370-2G, OR LATEST REVISION.
3. THE CONTRACTOR SHALL MAINTAIN PROPER POSITIONING OF ALL BARRICADES, AS WELL AS ENSURE THE BARRICADES REMAIN FULL OF WATER.
6. THE CONTRACTOR SHALL CHECK OPERABILITY OF LIGHTS DAILY. HAVE REPLACEMENT LIGHTS AND BATTERIES ON-SITE AND REPLACE INOPERATIVE LIGHTS WITHIN ONE (1) HOUR OF NOTIFICATION OF OUTAGE BY THE ENGINEER/RPR OR AIRPORT OPERATIONS. PROVIDE AN ON-SITE REPRESENTATIVE WHO IS AVAILABLE 24-HOURS PER DAY, SEVEN DAYS PER WEEK AND CAN REPLACE INOPERATIVE LIGHTS.
7. SANDBAGS AND/OR ANCHORS MAY BE REQUIRED TO HOLD THE BARRICADES IN PLACE AS THE BARRICADES WILL BE EXPOSED TO JET BLAST AND PROP WASH. SANDBAGS AND ANCHORS ARE INCIDENTAL TO X-102, SAFETY AND SECURITY.
8. MAINTENANCE AND SECURING OF BARRICADES IN PLACE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THOUGH MULTIPLE INSTALLATIONS AND REMOVALS OF THE BARRICADES MAY BE REQUIRED, THE CONTRACTOR WILL BE PAID ONLY FOR THE INITIAL INSTALLATION OF EACH BARRICADE. ALL WORK ASSOCIATED WITH THE INSTALLATION AND MAINTENANCE OF LOW PROFILE BARRICADES SHALL BE INCIDENTAL TO X-102, SAFETY AND SECURITY. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
9. BARRICADES SHALL REMAIN PROPERTY OF THE CONTRACTOR AT PROJECT COMPLETION.



2  
G006 CONSTRUCTION SAFETY FLAG  
SCALE: NTS

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ALBEMARLE  
AIRPORT  
(CHO)

RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



REVISIONS

NO.	DESCRIPTION	DATE

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REVIEWED BY: CCA  
DRAWN BY: LSB / RKH  
DESIGNED BY: RSY

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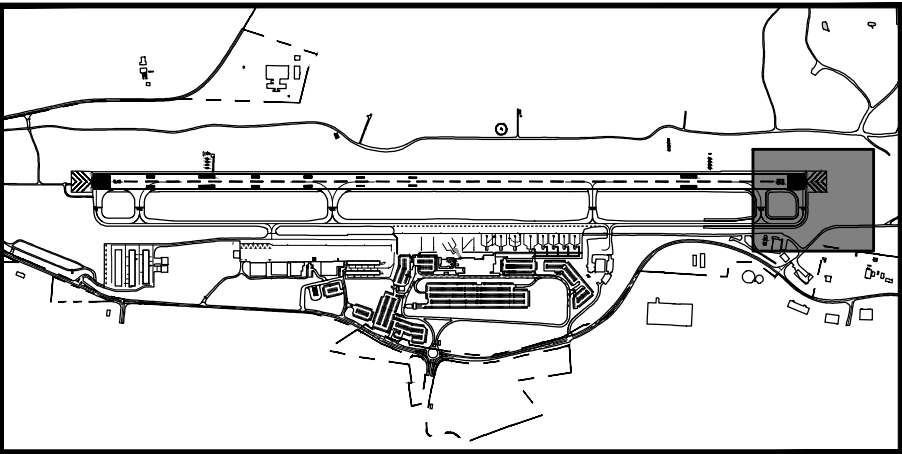
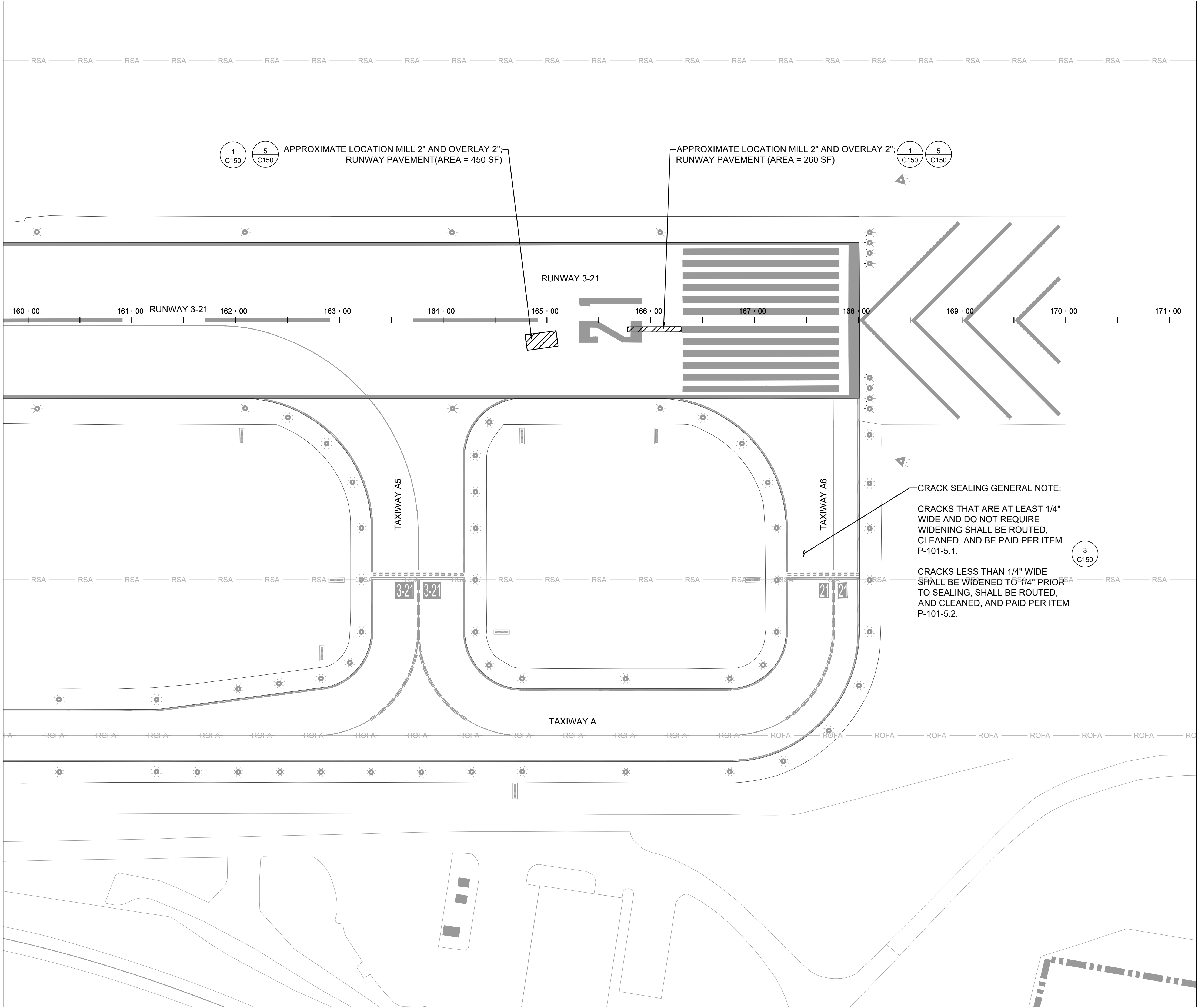
CONSTRUCTION  
SAFETY  
AND PHASING  
DETAILS

SHEET NUMBER  
G006  
SHEET 6 OF 19

BID DOCUMENTS



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KEYMAP

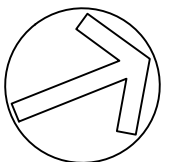
LEGEND

- 2" MILL AND 2" ASPHALT OVERLAY
- RSA RUNWAY SAFETY AREA
- ROFA RUNWAY OBJECT FREE AREA
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING RUNWAY/TAXIWAY EDGE LIGHT
- EXISTING REIL

EACH PATCHING AREA MUST BE COMPLETED IN ONE NIGHT (MILLING, PAVING, AND JOINT SEALING) AND MUST BE READY TO OPEN TO AIR TRAFFIC AT THE END OF THE NIGHT.

NOTES:

- ROUT AND CRACK SEAL ALL CRACKS ON RUNWAY 3-21, TAXIWAY A, AND TAXIWAY CONNECTORS AS AGREED TO BY CONTRACTOR AND RPR AND PER DETAIL 3/SHEET C150.
- REFER TO PAVEMENT REPAIR DETAILS AND TYPICAL SECTION PAVEMENT DETAILS ON SHEET C201.
- PAVING AREAS SHOWN ON THIS PLAN ARE APPROXIMATE. FINAL LIMITS SHALL BE VERIFIED AND AGREED UPON IN THE FIELD BY CONTRACTOR AND RPR PRIOR TO COMMENCEMENT OF WORK.
- IN AREAS OF REPAIR, SAWCUT FULL ASPHALT DEPTH, CLEAN, AND SMOOTH FACE AT DEMOLITION LIMITS. COST FOR SAWCUTTING SHALL BE INCIDENTAL TO P-101 ITEMS.
- SAWCUTTING SHALL BE DONE ALONG ALL THE DEMOLITION PAVEMENT LIMITS PRIOR TO PAVEMENT MILLING. MILLING ALONG THE DEMOLITION PAVEMENT LIMITS IS NOT ACCEPTABLE.
- ANY DAMAGE DONE TO EXISTING PAVEMENT OR PAVEMENT MARKINGS TO REMAIN SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- MILLINGS SHALL BECOME PROPERTY OF THE CONTRACTOR AND RESPONSIBLY DISPOSED OFF AIRPORT PROPERTY.
- CONTRACTOR SHALL ENSURE PAVING PATCH MAINTAINS EXISTING DRAINAGE PATTERNS, TIES-IN TO ALL SIDES AT EXISTING ELEVATIONS, AND MEETS COMPACTION REQUIREMENTS AS OUTLINED IN THE P-403 SPECIFICATION.
- PATCHING LOCATIONS SHOWN ARE APPROXIMATE. FINAL LIMITS TO BE AGREED TO IN THE FIELD BY CONTRACTOR AND RPR.
- RUNWAY GROOVING IN PATCH REPAIR AREAS TO OCCUR AT TIME OF PAVEMENT REPAIR AND SHALL NOT HAVE A 30 DAY CURING DURATION.
- CONTRACTOR PROVIDED LIGHTING IS REQUIRED IN ALL WORKING LOCATIONS DURING CONSTRUCTION.



0 50 100 Feet

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(CHO)

RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



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PAVEMENT  
REPAIR  
PLAN

SHEET NUMBER

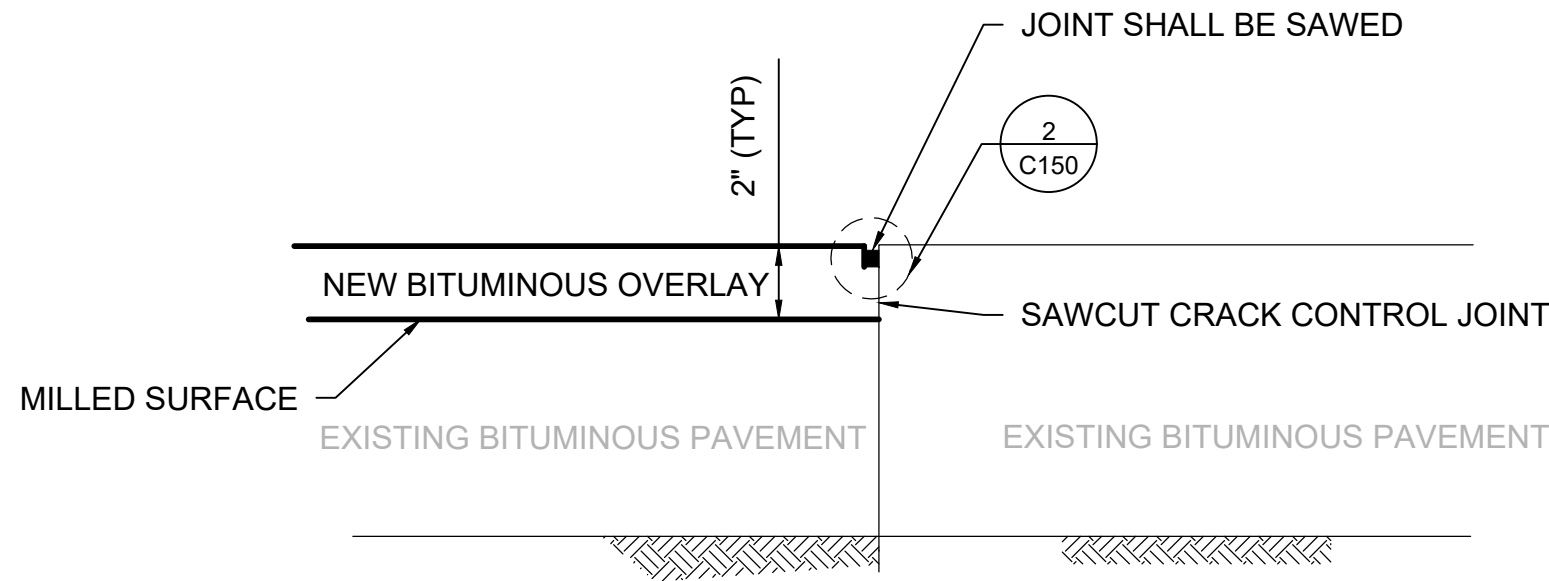
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SHEET 7 OF 19

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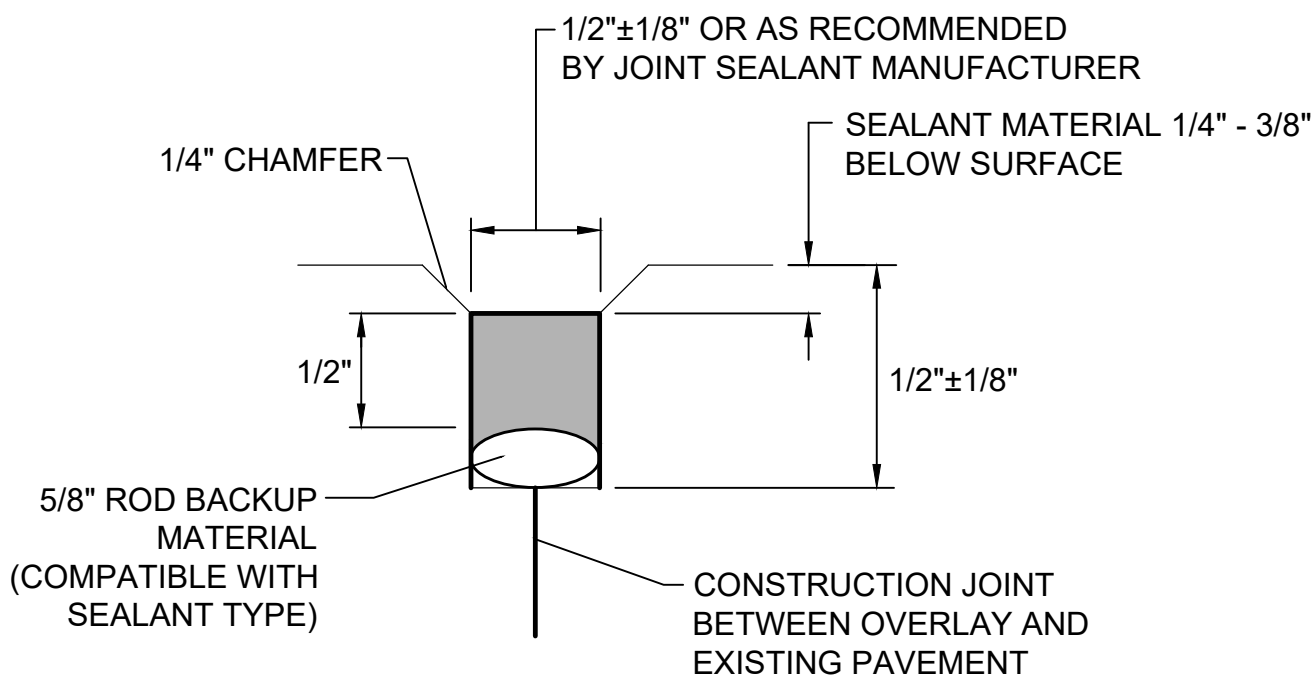


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C150

**BITUMINOUS - BITUMINOUS PAVEMENT JOINT**  
SCALE: N.T.S.

NOTES:

- REFER TO SPECIFICATION P-605.
- JOINT SHALL BE INCIDENTAL TO THE P-403 PAY ITEMS.

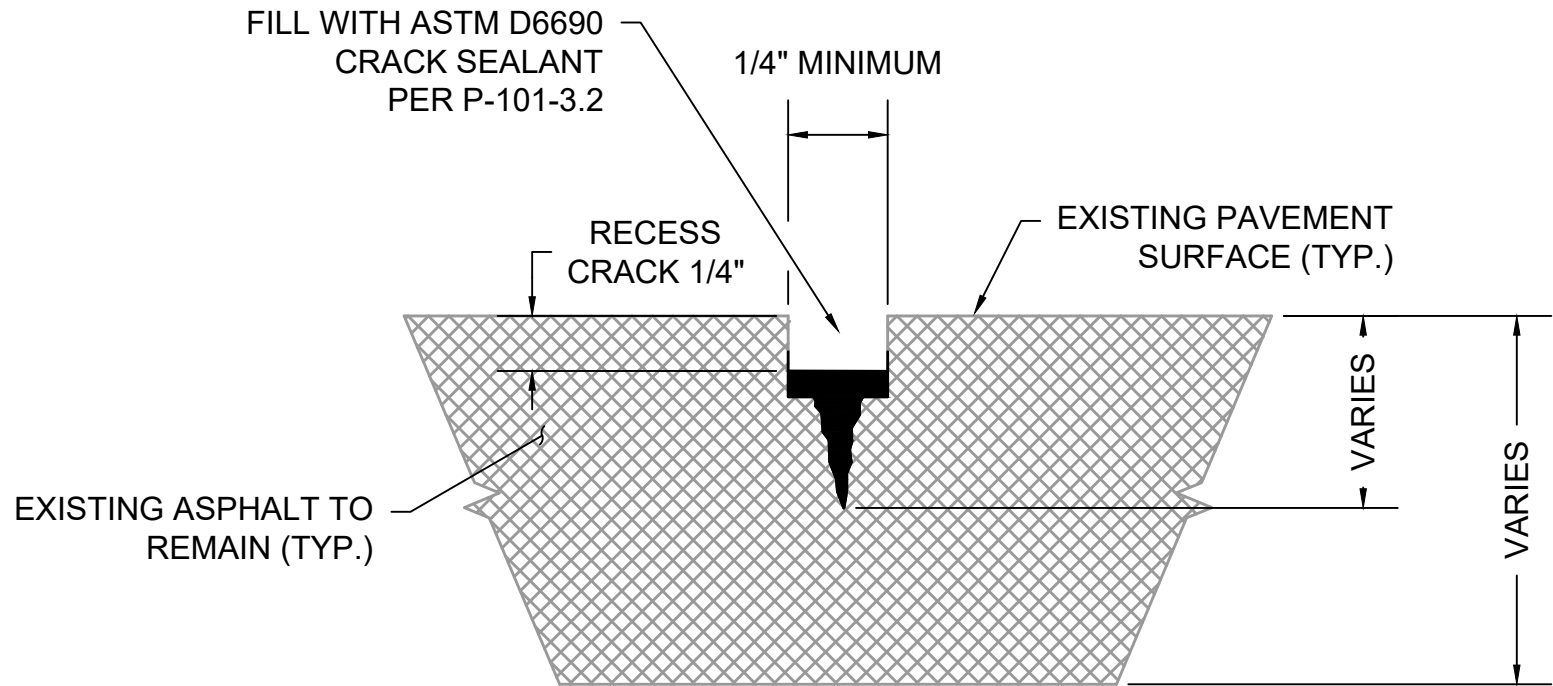


2  
C150

**BITUMINOUS JOINT RESERVOIR**  
SCALE: N.T.S.

NOTES:

- REFER TO SPECIFICATION P-605.
- JOINT SHALL BE INCIDENTAL TO THE P-403 PAY ITEMS.

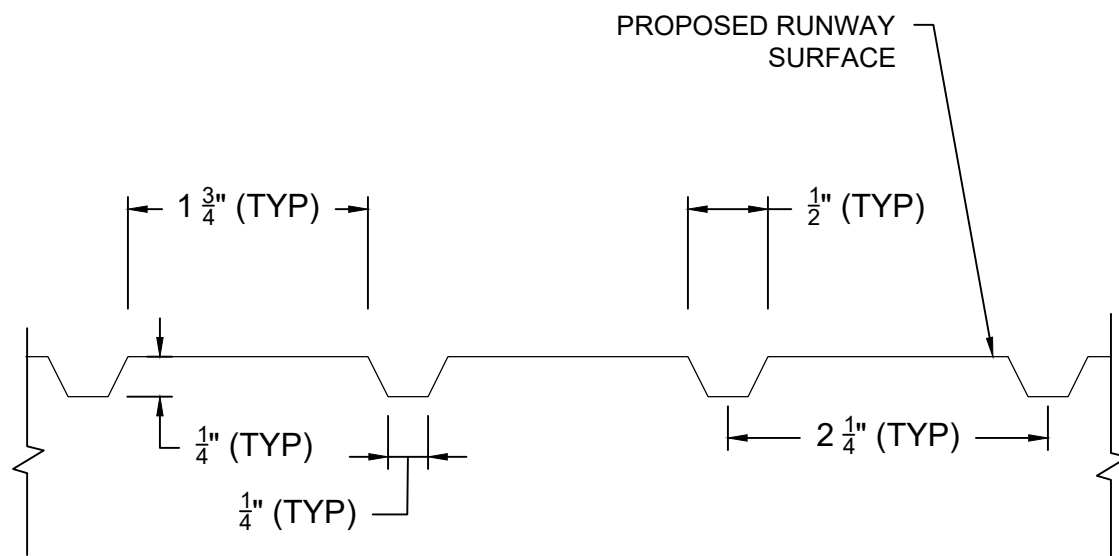


3  
C150

**ASPHALT JOINT AND CRACK REPAIR**  
SCALE: N.T.S.

NOTES:

- CRACKS TO BE SEALED USING THIS DETAIL SHALL BE IDENTIFIED AND AGREED TO BY RPR AND CONTRACTOR.
- CRACKS THAT ARE AT LEAST 1/4" WIDE AND DO NOT REQUIRE WIDENING SHALL BE ROUTED, CLEANED, AND BE PAID PER ITEM P-101-5.1
- CRACKS LESS THAN 1/4" SHALL BE WIDENED TO 1/4" PRIOR TO SEALING, SHALL BE ROUTED, AND CLEANED, AND PAID PER ITEM P-101-5.2
- CLEAN AND DRY EXISTING CRACK BY SANDBLASTING OR AIR BLASTING. CRACK SHALL BE DUST-FREE PRIOR TO INSTALLATION OF SEALANT.
- CRACKS ARE NOT TO BE FILLED PRIOR TO INSPECTION BY ENGINEER/RPR.
- RECESS SEALANT BELOW THE SURFACE BY 1/4" WITH NO OVERBANDING. CONTRACTOR TO ENSURE SEALANT DOES NOT BLEED INTO ASPHALT SURFACE.

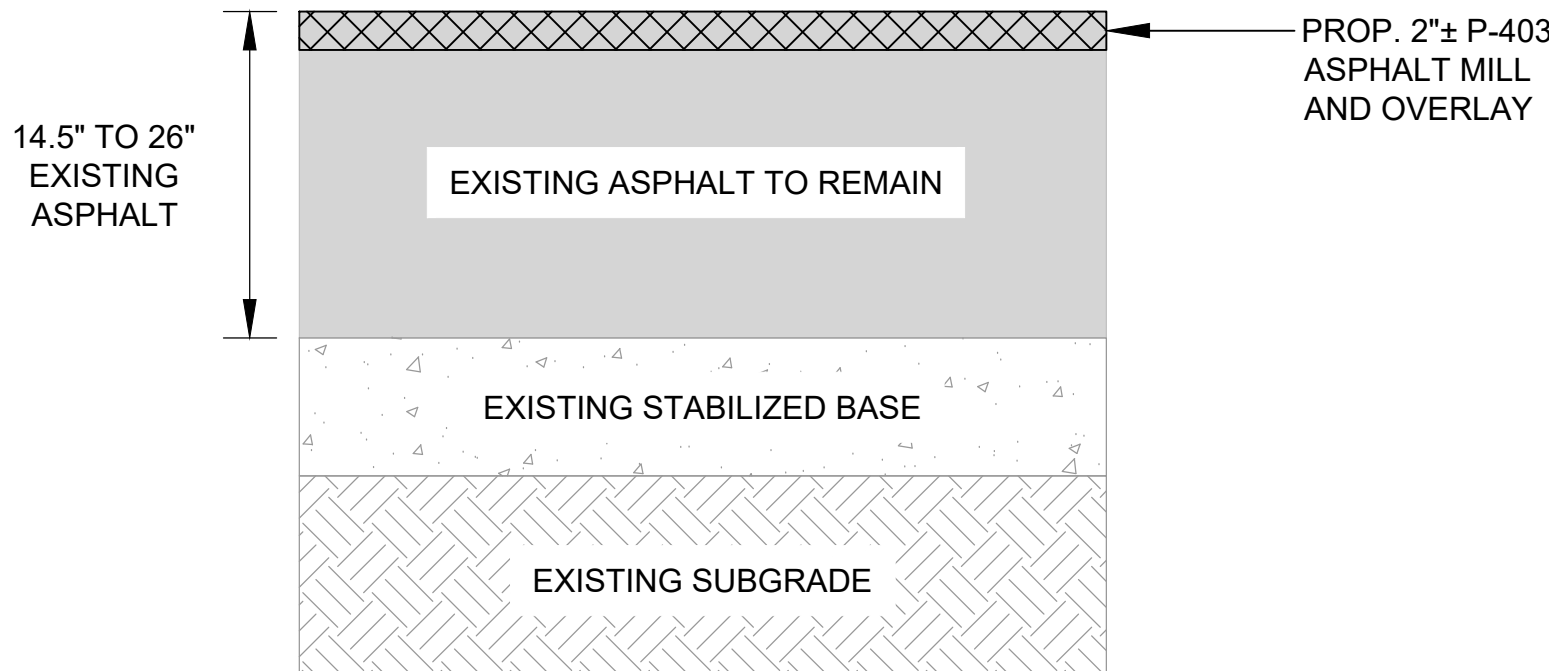


4  
C150

**GROOVING DETAIL**  
SCALE: N.T.S.

NOTES

- ALL GROOVING SHALL BE PERPENDICULAR TO THE CENTERLINE OF THE ASSOCIATED RUNWAY OR TAXIWAY IN AREAS OF PAVEMENT REPAIR.
- CONTRACTOR IS RESPONSIBLE FOR CLEANUP OF ALL WASTE MATERIAL GENERATED FROM GROOVING ACTIVITIES.
- WASTE MATERIAL SHALL NOT BE FLUSHED INTO THE STORM OR SANITARY SEWER SYSTEM.
- WASTE MATERIAL SHALL NOT BE ALLOWED TO DRAIN ONTO THE GRASS ADJACENT TO THE RUNWAY OR LEFT ON THE RUNWAY SURFACE OR SHOULDERS.
- CONTRACTOR SHALL INSPECT SITE WITH ENGINEER/RPR TO ENSURE WASTE CLEANUP IS SATISFACTORY.
- REFER TO FAA ITEM P-621 FOR ADDITIONAL GROOVING REQUIREMENTS.



5  
C150

**PROPOSED 2"± ASPHALT PATCHING SECTION**  
SCALE: N.T.S.

NOTES

- THE 2-INCH P-403-SM-12.5D SURFACE COURSE SHALL CONSIST OF PG 70-22 BINDER AND 1/2-INCH MAX PARTICLE SIZE AGGREGATE (P-403 SPECIFICATION AND SECTION 211, VDOT ROAD AND BRIDGE SUPPLEMENTAL SPECIFICATIONS).
- SPECIFICATION P-603-5.1 TACK COAT SHALL BE PAID AT THE CONTRACT UNIT PRICE PER GALLON APPLIED AND ACCEPTED BY THE ENGINEER.

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RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



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DESIGNED BY:	RSY
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CRACK SEALING  
AND  
SURFACE  
TREATMENT  
DETAILS

SHEET NUMBER

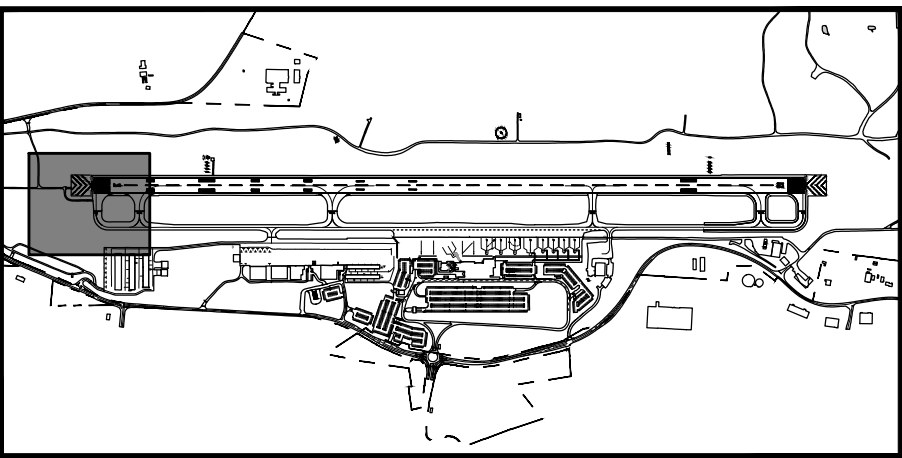
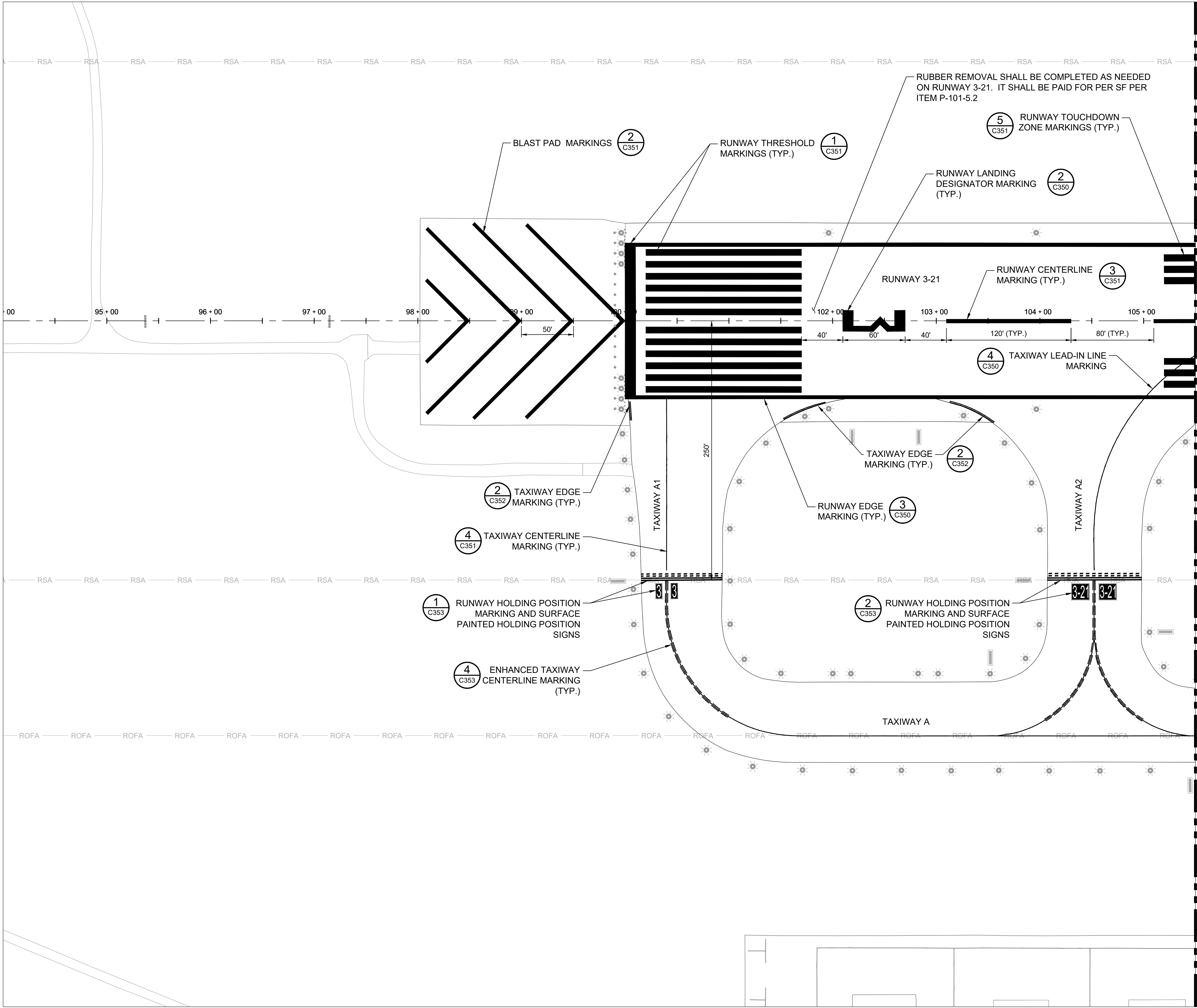
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KEYMAP

LEGEND

- RSA — RUNWAY SAFETY AREA
- ROFA — RUNWAY OBJECT FREE AREA
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING RUNWAY/TAXIWAY EDGE LIGHT
- EXISTING PAPI
- EXISTING REIL

NOTES

- TAXIWAY AND RUNWAY MARKINGS SHOWN ARE NOT SURVEYED AND ARE APPROXIMATE ONLY AND SHALL BE SURVEYED BEFORE REPAINTING.
- ALL MARKINGS SHALL COMPLY WITH FAA AC 150/5340 -1M, OR LATEST REVISION.
- REFER TO SHEETS C350 TO C353 FOR PAVEMENT MARKING DETAILS.
- SURFACE CONDITION AND ALL MARKING LAYOUTS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO PAINTING. REFER TO SECTIONS 620-3.3 THROUGH 620-3.4 IN THE P-620 SPECIFICATION.
- REFER TO SECTION 620-3.1 IN THE P-620 SPECIFICATION FOR PAINTING WEATHER LIMITATIONS.
- MARKINGS NOT REMOVED WITH MILLING SHALL BE REMOVED WITH WATER BLASTING. WATER BLASTING IS NOT ALLOWED ON OR NEAR SURFACES TO BE PAVED THE SAME WORK SHIFT.
- THE FINAL MARKINGS (SPECIFICATION P-620-5.2) SHALL BE APPLIED AT THE FULL APPLICATION RATE AND WITH THE REFLECTIVE MEDIA (GLASS BEADS, P-620-5.3).
- RUBBER REMOVAL SHALL OCCUR PRIOR TO REMARKING.

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RUNWAY 3-21 AND  
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PAVEMENT  
MARKING  
PLANS - 1

SHEET NUMBER

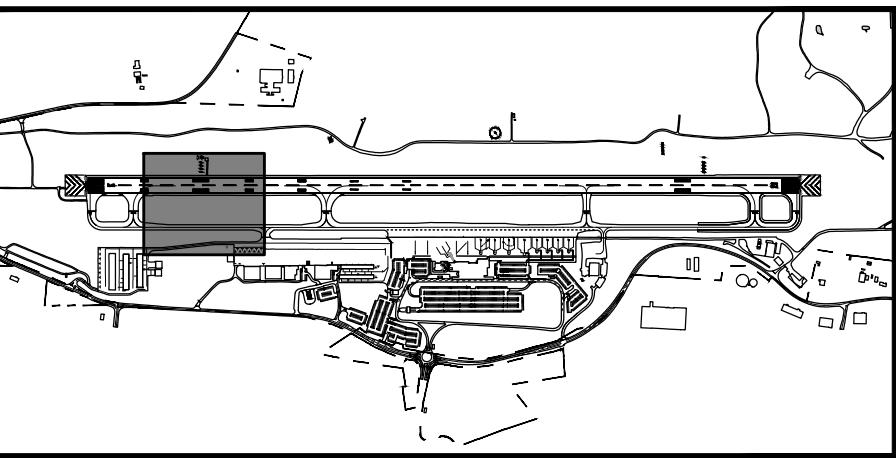
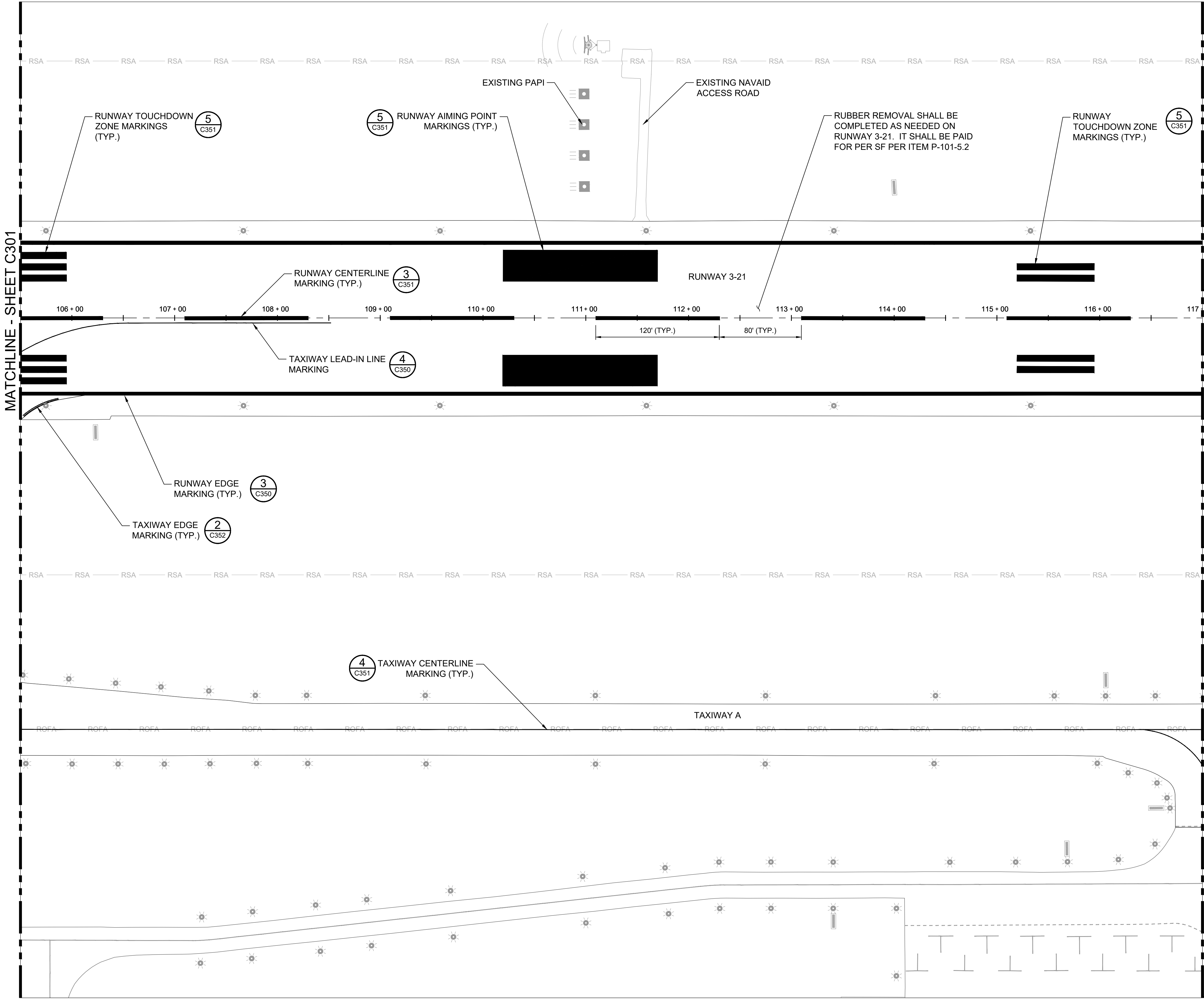
C301

SHEET 9 OF 19

BID DOCUMENTS



Drawing: P:\Charlottesville\_Albemarle\10221892\_CHO\_Civil\_On\_Call\_2022\_2026\10541892013\03.00 Project Execution\03.05 Dwggs\_Models\CAD\CHO-PWMT-Pavement Marking Plan.dwg - Plotted on: 5/15/25 - Plotted by: Blaine, Jason

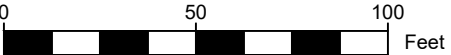
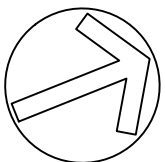


LEGEND

- RSA — RUNWAY SAFETY AREA
- ROFA — RUNWAY OBJECT FREE AREA
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING RUNWAY/TAXIWAY EDGE LIGHT
- EXISTING PAPI
- EXISTING REIL

NOTES

- TAXIWAY AND RUNWAY MARKINGS SHOWN ARE NOT SURVEYED AND ARE APPROXIMATE ONLY AND SHALL BE SURVEYED BEFORE REPAINTING.
- ALL MARKINGS SHALL COMPLY WITH FAA AC 150/5340 -1M, OR LATEST REVISION.
- REFER TO SHEETS C350 TO C353 FOR PAVEMENT MARKING DETAILS.
- SURFACE CONDITION AND ALL MARKING LAYOUTS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO PAINTING. REFER TO SECTIONS 620-3.3 THROUGH 620-3.4 IN THE P-620 SPECIFICATION.
- REFER TO SECTION 620-3.1 IN THE P-620 SPECIFICATION FOR PAINTING WEATHER LIMITATIONS.
- MARKINGS NOT REMOVED WITH MILLING SHALL BE REMOVED WITH WATER BLASTING. WATER BLASTING IS NOT ALLOWED ON OR NEAR SURFACES TO BE PAVED THE SAME WORK SHIFT.
- THE FINAL MARKINGS (SPECIFICATION P-620-5.2) SHALL BE APPLIED AT THE FULL APPLICATION RATE AND WITH THE REFLECTIVE MEDIA (GLASS BEADS, P-620-5.3).
- RUBBER REMOVAL SHALL OCCUR PRIOR TO REMARKING.



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AIRPORT

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ALBEMARLE  
AIRPORT  
(CHO)

RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: MARCH 2025  
REVIEWED BY: CCA  
DRAWN BY: LSB / JHB  
DESIGNED BY: RSY  
RS&H PROJECT NUMBER  
10541892013  
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SHEET TITLE

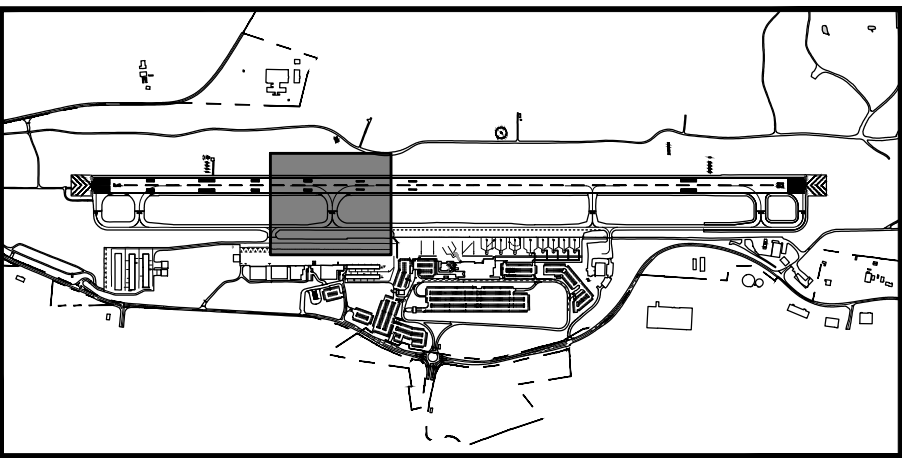
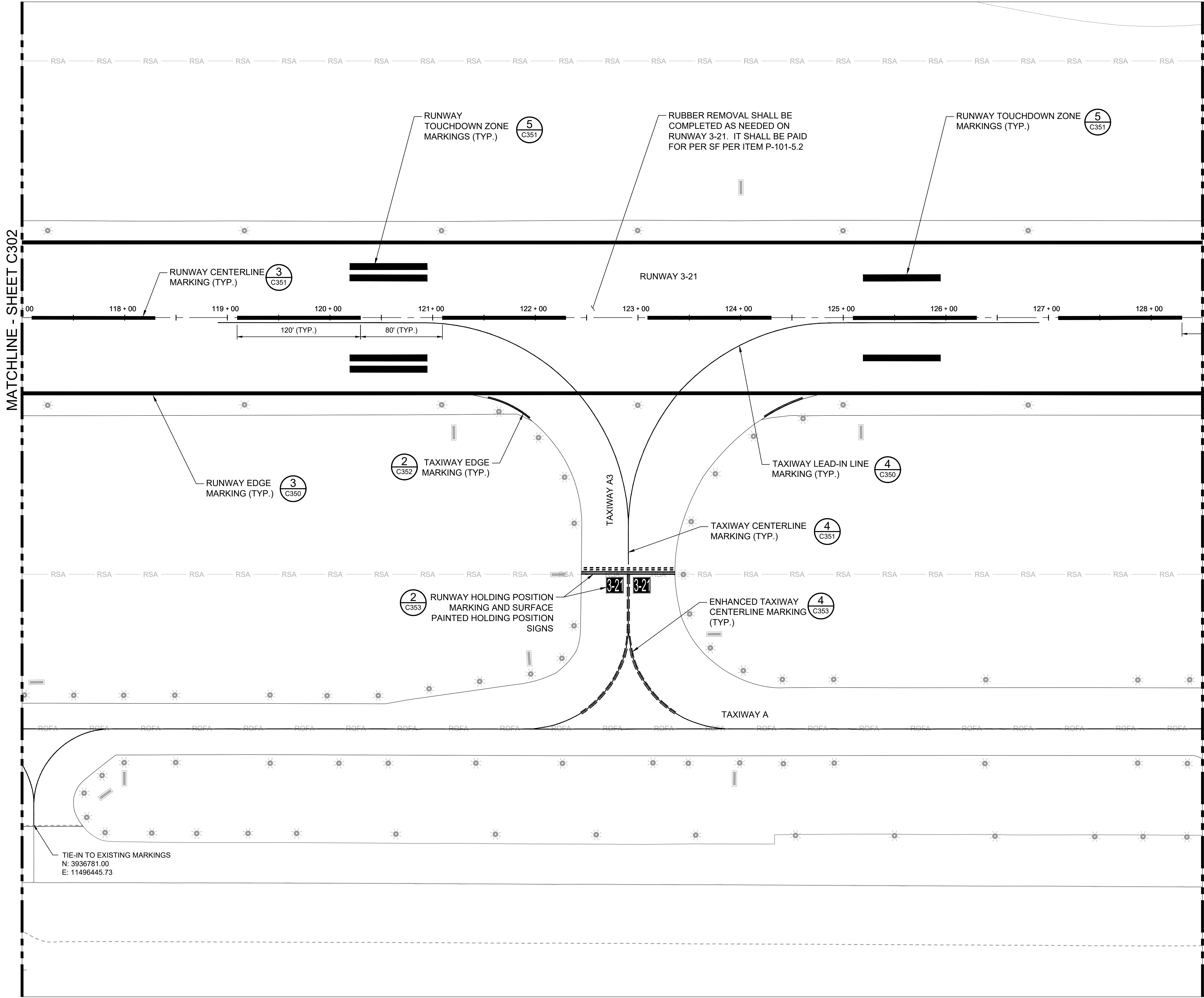
PAVEMENT  
MARKING  
PLANS - 2

SHEET NUMBER  
C302  
SHEET 10 OF 19

BID DOCUMENTS



Drawing: P:\Charlottesville\_Albemarle\10221892\_CHO\_Civil\_On\_Call\_2022\_2026\10541892013\03.00 Project Execution\03.05 Dwggs\_Models\CAD\CHO-PMT-Pavement Marking Plan.dwg - Plotted on: 5/15/25 - Plotted by: Blaine, Jason

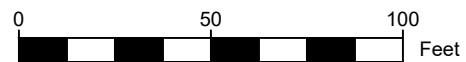
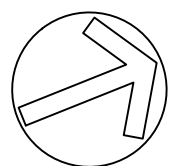


#### LEGEND

- RSA — RUNWAY SAFETY AREA
- ROFA — RUNWAY OBJECT FREE AREA
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING RUNWAY/TAXIWAY EDGE LIGHT
- EXISTING PAPI
- EXISTING REIL

#### NOTES

- TAXIWAY AND RUNWAY MARKINGS SHOWN ARE NOT SURVEYED AND ARE APPROXIMATE ONLY AND SHALL BE SURVEYED BEFORE REPAINTING.
- ALL MARKINGS SHALL COMPLY WITH FAA AC 150/5340 -1M, OR LATEST REVISION.
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RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



#### REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: MARCH 2025  
REVIEWED BY: CCA  
DRAWN BY: LSB / JHB  
DESIGNED BY: RSY

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SHEET TITLE

PAVEMENT  
MARKING  
PLANS - 3

SHEET NUMBER

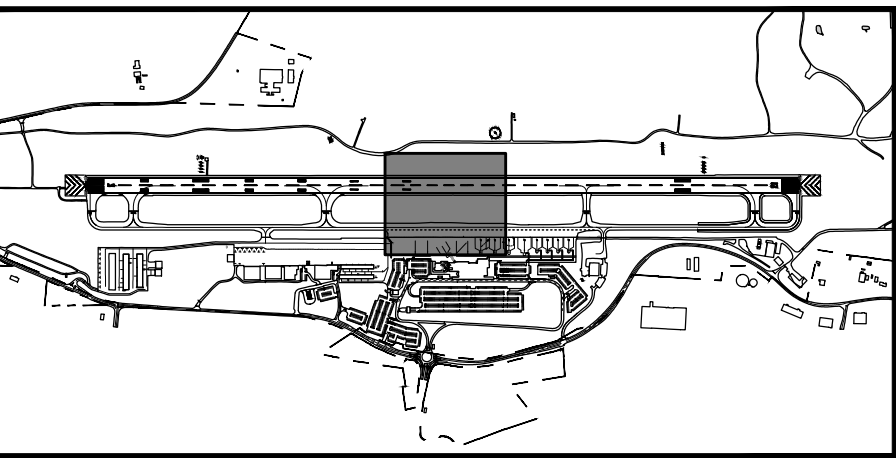
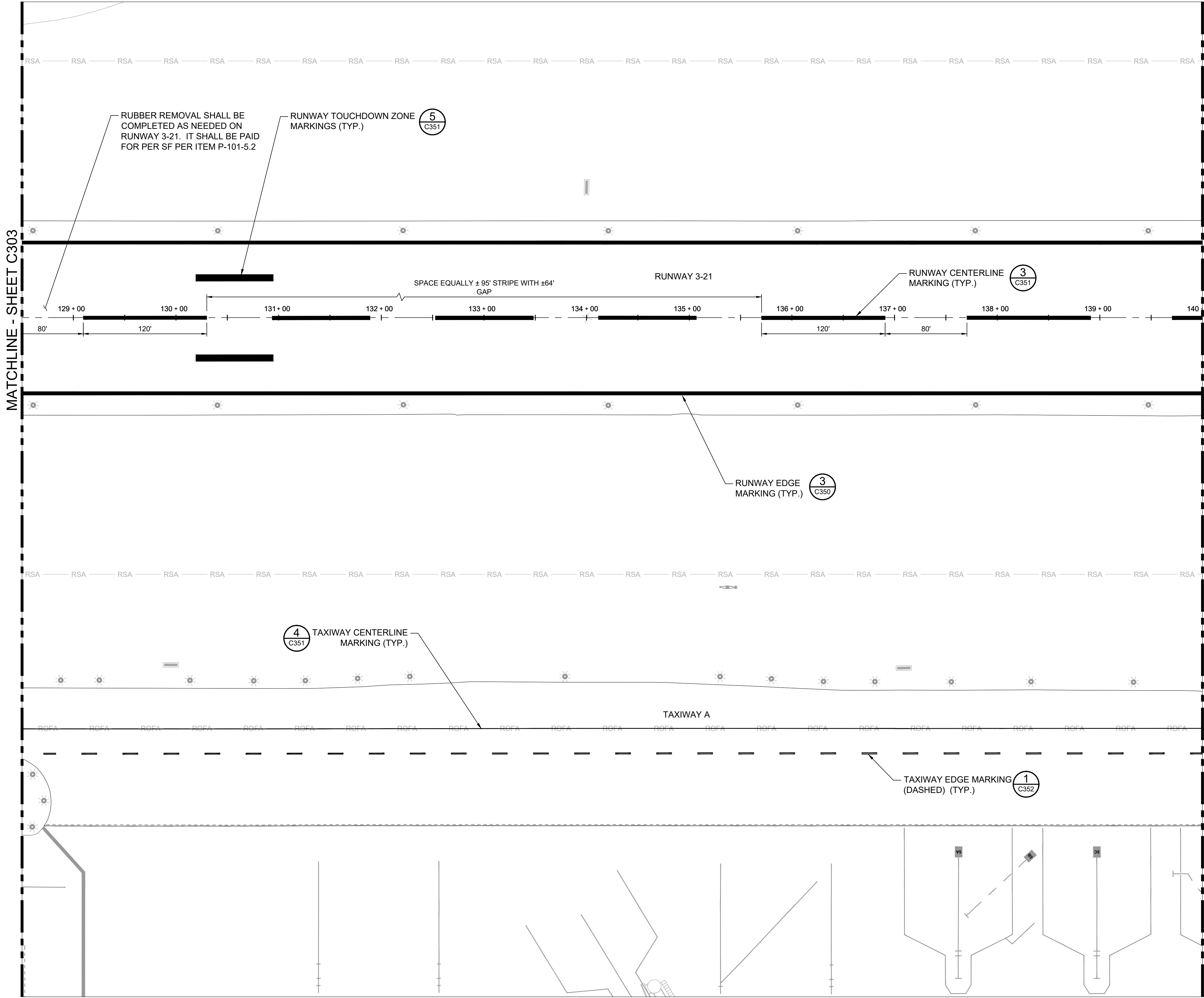
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SHEET 11 OF 19

BID DOCUMENTS



Drawing: P:\Charlottesville\_Albemarle\10221892\_CHO\_Civil\_On\_Call\_2022\_2026\10541892013\03.00 Project Execution\03.05 Dwggs\_Models\CAD\CHO-PMT-Pavement Marking Plan.dwg - Plotted on: 5/15/25 - Plotted by: Blaine, Jason



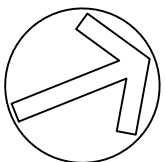
KEYMAP

LEGEND

- RSA — RUNWAY SAFETY AREA
- ROFA — RUNWAY OBJECT FREE AREA
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING RUNWAY/TAXIWAY EDGE LIGHT
- EXISTING PAPI
- EXISTING REIL

NOTES

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RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: MARCH 2025  
REVIEWED BY: CCA  
DRAWN BY: LSB / JHB  
DESIGNED BY: RSY  
RS&H PROJECT NUMBER  
10541892013  
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SHEET TITLE

PAVEMENT  
MARKING  
PLANS - 4

SHEET NUMBER

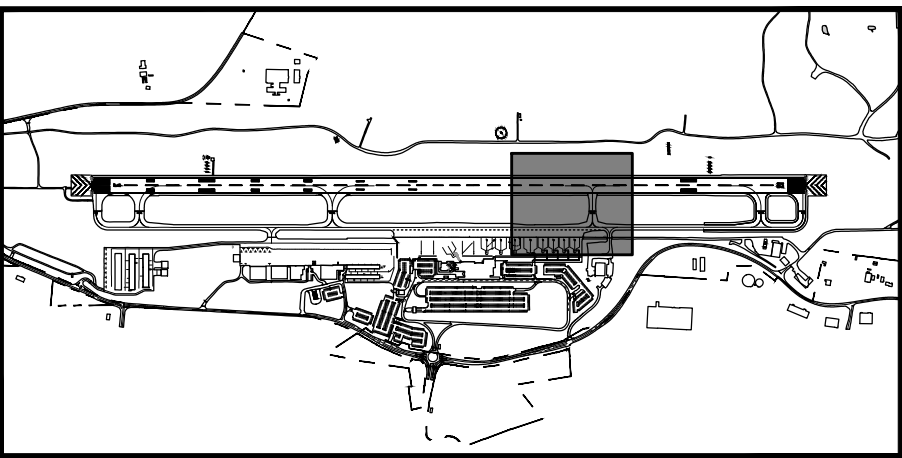
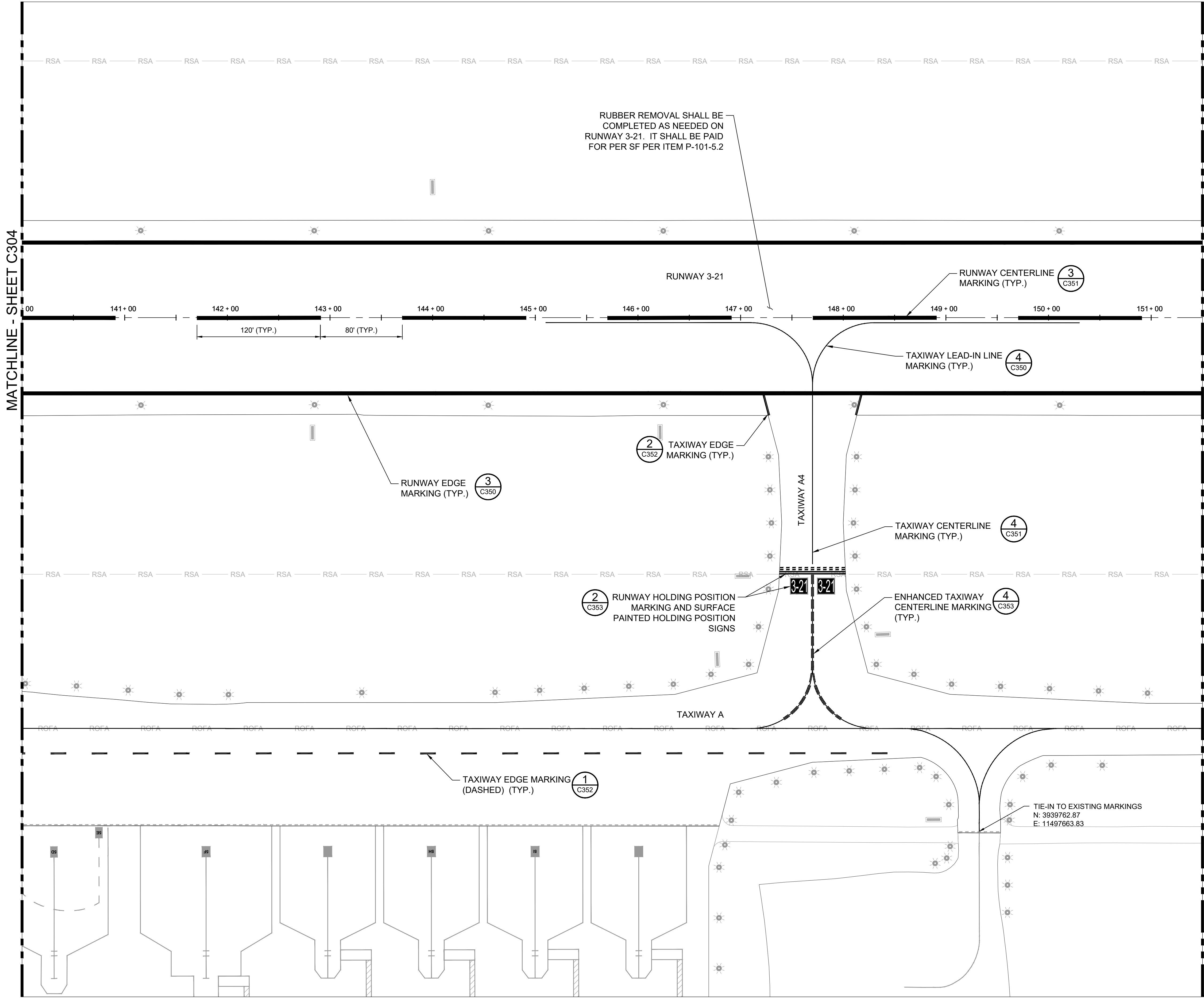
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SHEET 12 OF 19

BID DOCUMENTS



Drawing: P:\Charlottesville\_Albemarle\10221892\_CHO\_Civil\_On\_Call\_2022\_2026\10541892013\03.00 Project Execution\03.05 Dwggs\_Models\CAD\CHO-PWMT-Pavement Marking Plan.dwg - Plotted on: 5/15/25 - Plotted by: Blaine, Jason



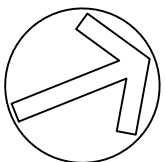
KEYMAP

LEGEND

- RSA — RUNWAY SAFETY AREA
- ROFA — RUNWAY OBJECT FREE AREA
- ▬ EXISTING AIRFIELD GUIDANCE SIGN
- ☼ EXISTING RUNWAY/TAXIWAY EDGE LIGHT
- EXISTING PAPI
- ◀ EXISTING REIL

NOTES

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AIRPORT  
(CHO)

RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: MARCH 2025  
REVIEWED BY: CCA  
DRAWN BY: LSB / JHB  
DESIGNED BY: RSY

RS&H PROJECT NUMBER  
10541892013  
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SHEET TITLE

PAVEMENT  
MARKING  
PLANS - 5

SHEET NUMBER

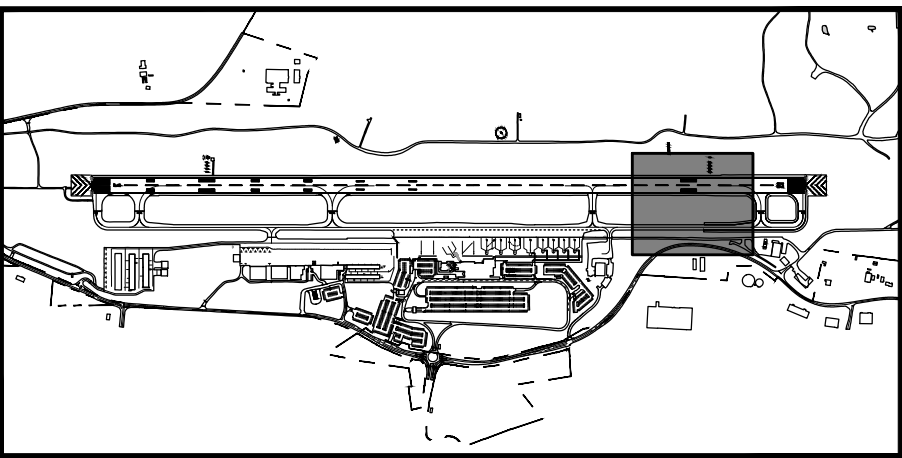
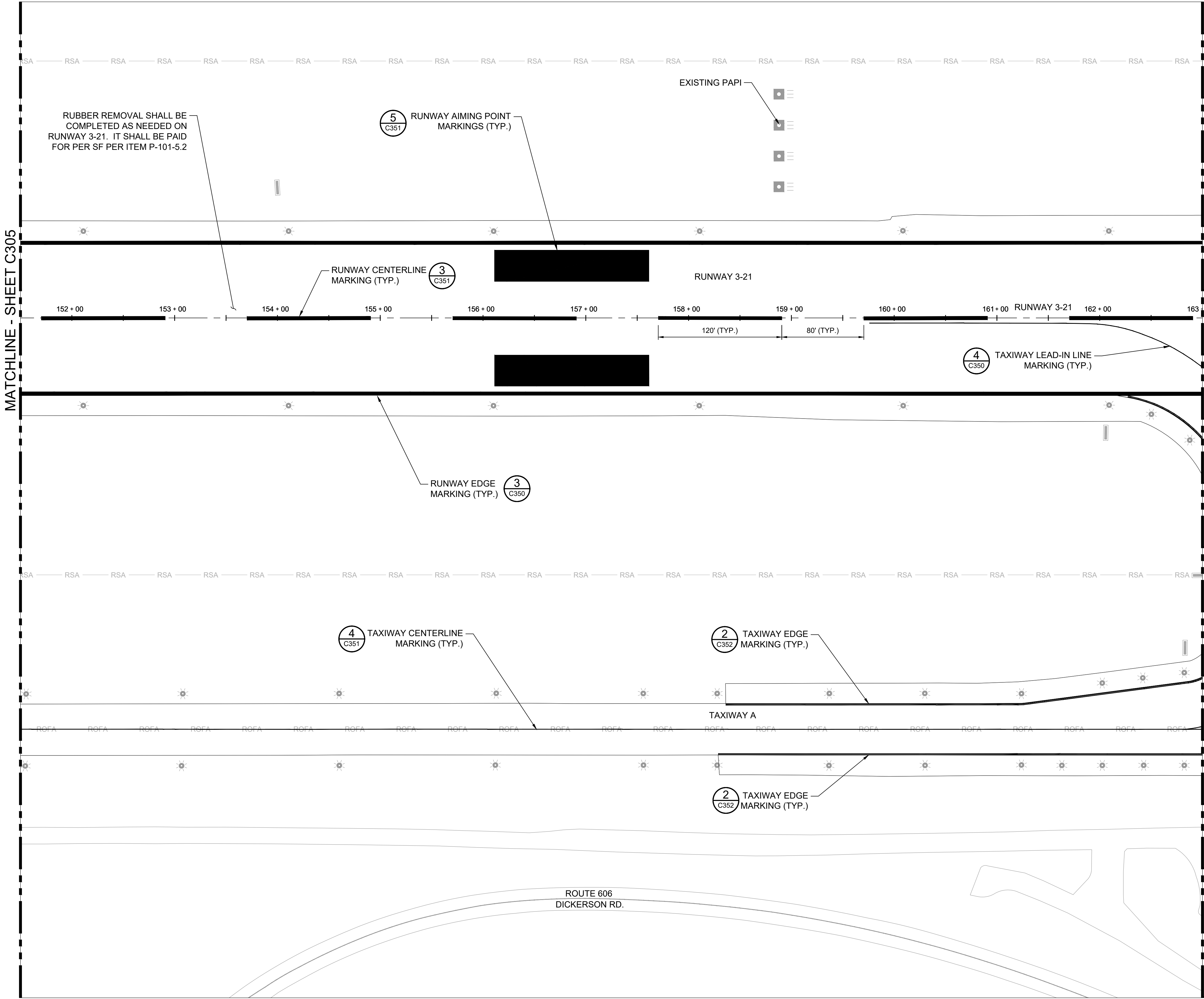
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SHEET 13 OF 19

BID DOCUMENTS



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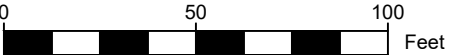
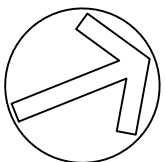
KEYMAP

LEGEND

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ALBEMARLE  
AIRPORT  
(CHO)

RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: MARCH 2025  
REVIEWED BY: CCA  
DRAWN BY: LSB / JHB  
DESIGNED BY: RSY

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SHEET TITLE

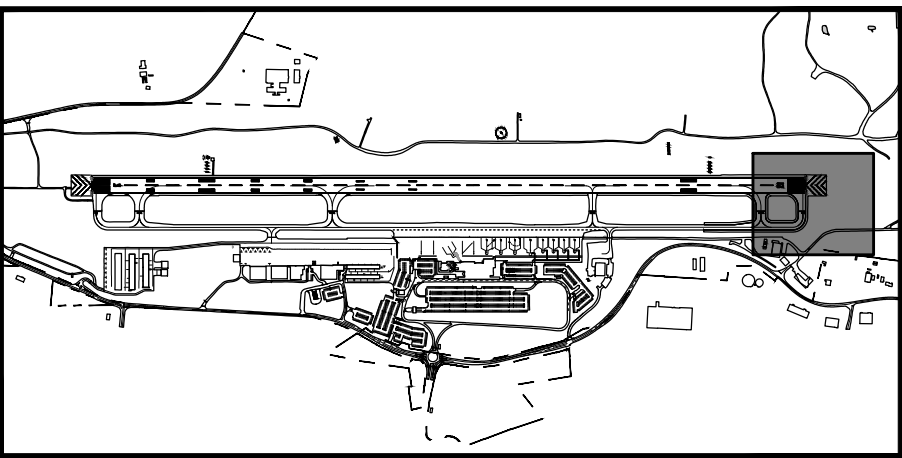
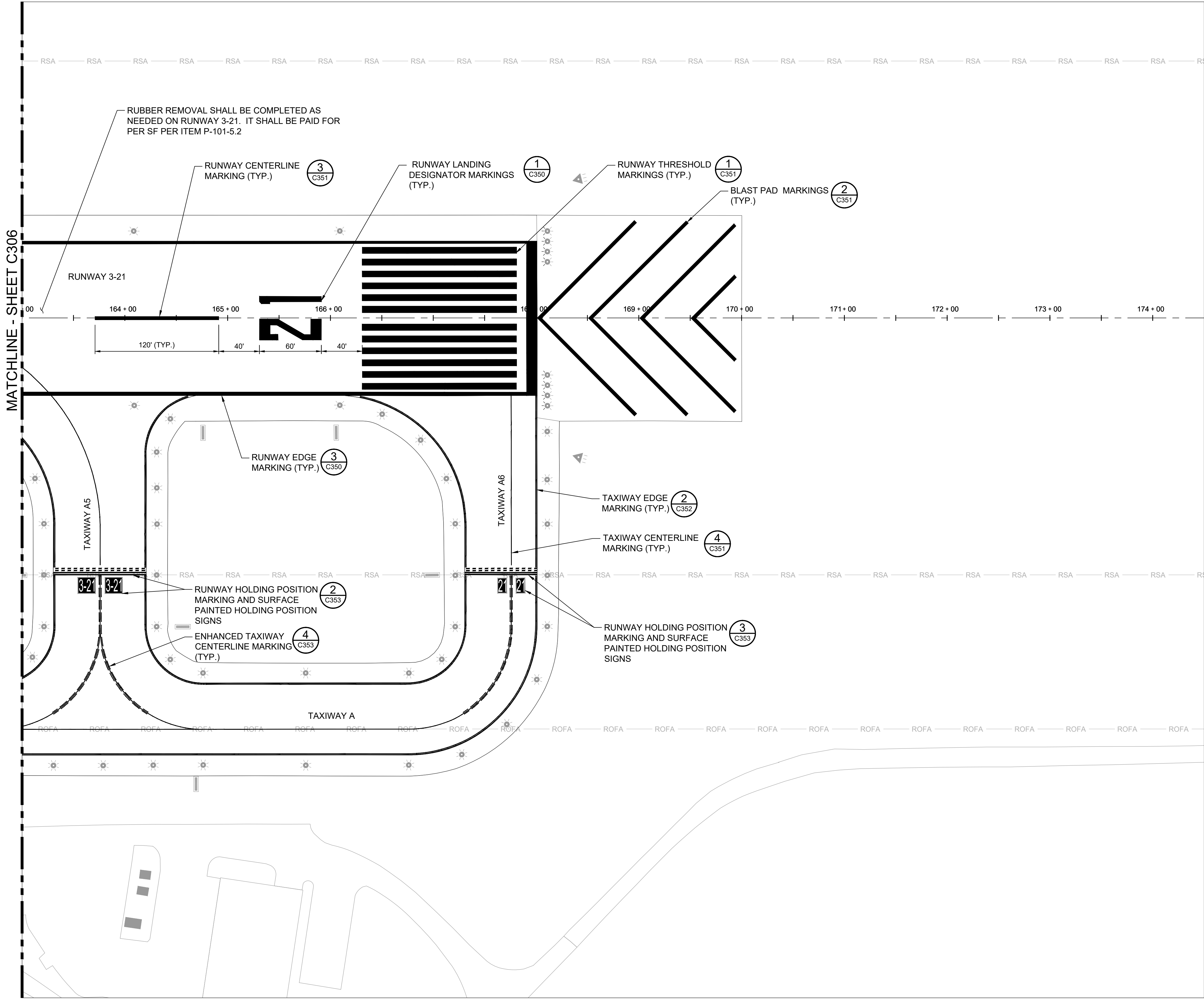
PAVEMENT  
MARKING  
PLANS - 6

SHEET NUMBER  
C306  
SHEET 14 OF 19

BID DOCUMENTS



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KEYMAP

LEGEND

- RSA — RUNWAY SAFETY AREA
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NOTES

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AIRPORT

CHARLOTTESVILLE  
ALBEMARLE  
AIRPORT  
(CHO)

RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: MARCH 2025  
REVIEWED BY: CCA  
DRAWN BY: LSB / JHB  
DESIGNED BY: RSY  
RS&H PROJECT NUMBER  
10541892013  
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SHEET TITLE

PAVEMENT  
MARKING  
PLANS - 7

SHEET NUMBER

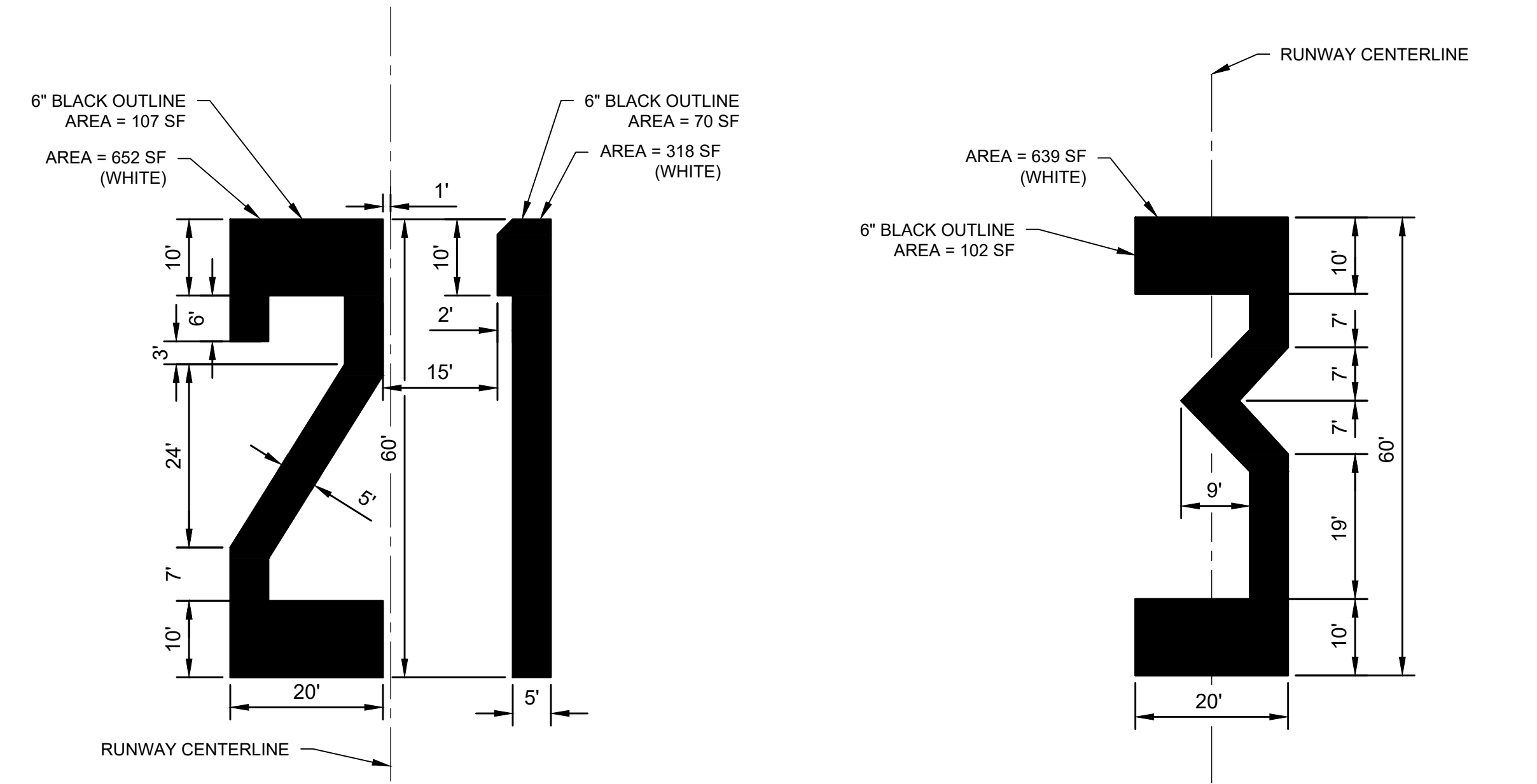
C307

SHEET 15 OF 19

BID DOCUMENTS

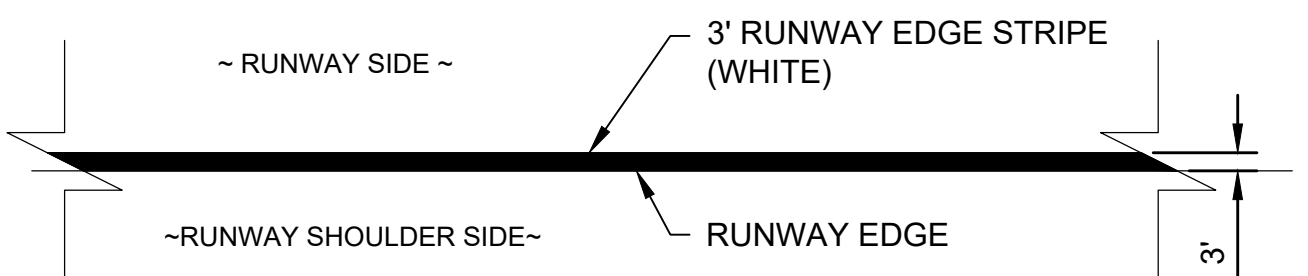


Drawing: P:\Charlottesville\_Albemarle\10221892\_CHO\_Civil\_On\_Call\_2022\_2026\10541892013\03.00 Project Execution\03.05 Dwggs\_Models\CAD\CHO-PWMT-Pavement Marking Details.dwg — Plotted by: Blaine, Jason

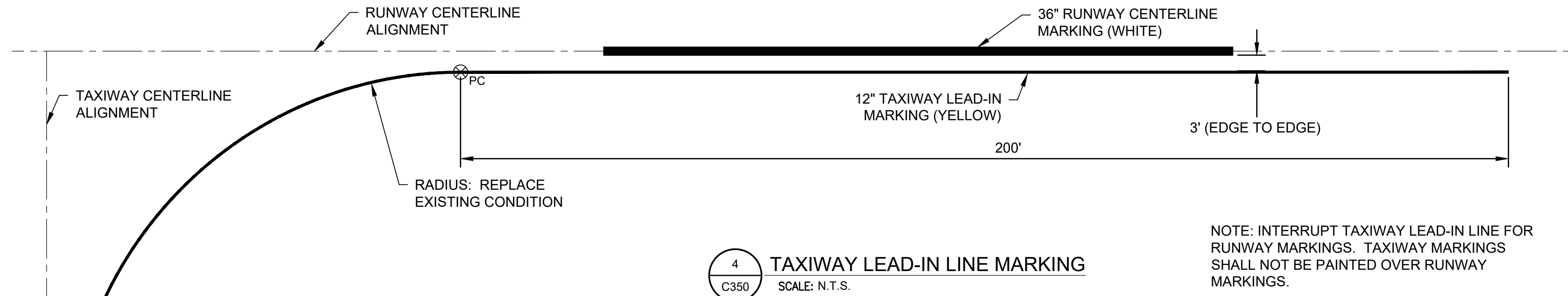


1 RUNWAY LANDING DESIGNATION MARKINGS  
SCALE: N.T.S. (WHITE IN COLOR)

2 RUNWAY LANDING DESIGNATION MARKING  
SCALE: N.T.S. (WHITE IN COLOR)



3 RUNWAY EDGE MARKING  
SCALE: N.T.S. (WHITE IN COLOR)



4 TAXIWAY LEAD-IN LINE MARKING  
SCALE: N.T.S.

- NOTES:
1. CONTRACTOR SHALL REPAINT THE ENTIRETY OF RUNWAY 3-21 MARKINGS AND TAXIWAY A MARKINGS WITHIN THE RUNWAY SAFETY AREA
  2. ALL MARKINGS SHALL COMPLY WITH THE FAA AC 150/5340-1M, OR LATEST REVISION.
  3. REFLECTORIZED (TYPE III GLASS BEADS) PAINT SHALL BE USED FOR ALL PERMANENT PAVEMENT MARKINGS AT THE RATE DESIGNATED IN THE P-620 SPECIFICATION EXCEPT FOR BLACK OUTLINE.
  4. ALL TAXIWAY MARKINGS ARE YELLOW.
  5. ALL RUNWAY MARKINGS ARE WHITE.
  6. IMMEDIATELY PRIOR TO THE APPLICATION OF PAINT, ALL SURFACES SHALL BE DRY AND FREE FROM DIRT, GREASE, OIL, LAITANCE, RUBBER, OR OTHER FOREIGN MATERIAL WHICH WOULD REDUCE THE BOND BETWEEN THE PAINT AND THE PAVEMENT. THIS SHALL INCLUDE EXISTING PAINTED AREAS. REFER TO SPECIFICATION P-620.
  7. ALL RUNWAY AND TAXIWAY LIGHT FIXTURES SHALL BE PROTECTED FROM OVERSPRAY.
  8. EXISTING PAVEMENT MARKINGS OUTSIDE THE LIMITS OF PAVEMENT REPAIR WHICH ARE REMOVED OR WORN DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAINTED, AS DIRECTED BY ENGINEER/RPR.
  9. ALL FINAL PAINT MARKINGS SHALL BE OUTLINED WITH A 6" BLACK BORDER AND SHALL BE PAID PER SPECIFICATION P-620.
  10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE APPLICATION ORDER FOR THE BLACK OUTLINE AROUND FINAL PAINT MARKINGS.
  11. IF THE CONTRACTOR CHOOSES TO INSTALL BLACK MARKING FIRST, PRIOR TO WHITE/YELLOW MARKINGS INSTALLATION, CONTRACTOR SHALL ONLY BE PAID FOR WIDTH OF THE BLACK ENHANCEMENT.
  12. IF CONTRACTOR CHOOSES TO PAINT BLACK MARKINGS AFTER WHITE/YELLOW HAS BEEN INSTALLED, CONTRACTOR SHALL NOT ALLOW BLACK PAINT OVERSPRAY ONTO THE WHITE/YELLOW MARKINGS AS THERE MUST BE CLEAN STRAIGHT LINES FOR ALL MARKINGS.



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RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



REVISIONS		
NO.	DESCRIPTION	DATE

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10541892013  
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SHEET TITLE

PAVEMENT  
MARKING  
DETAILS - 1

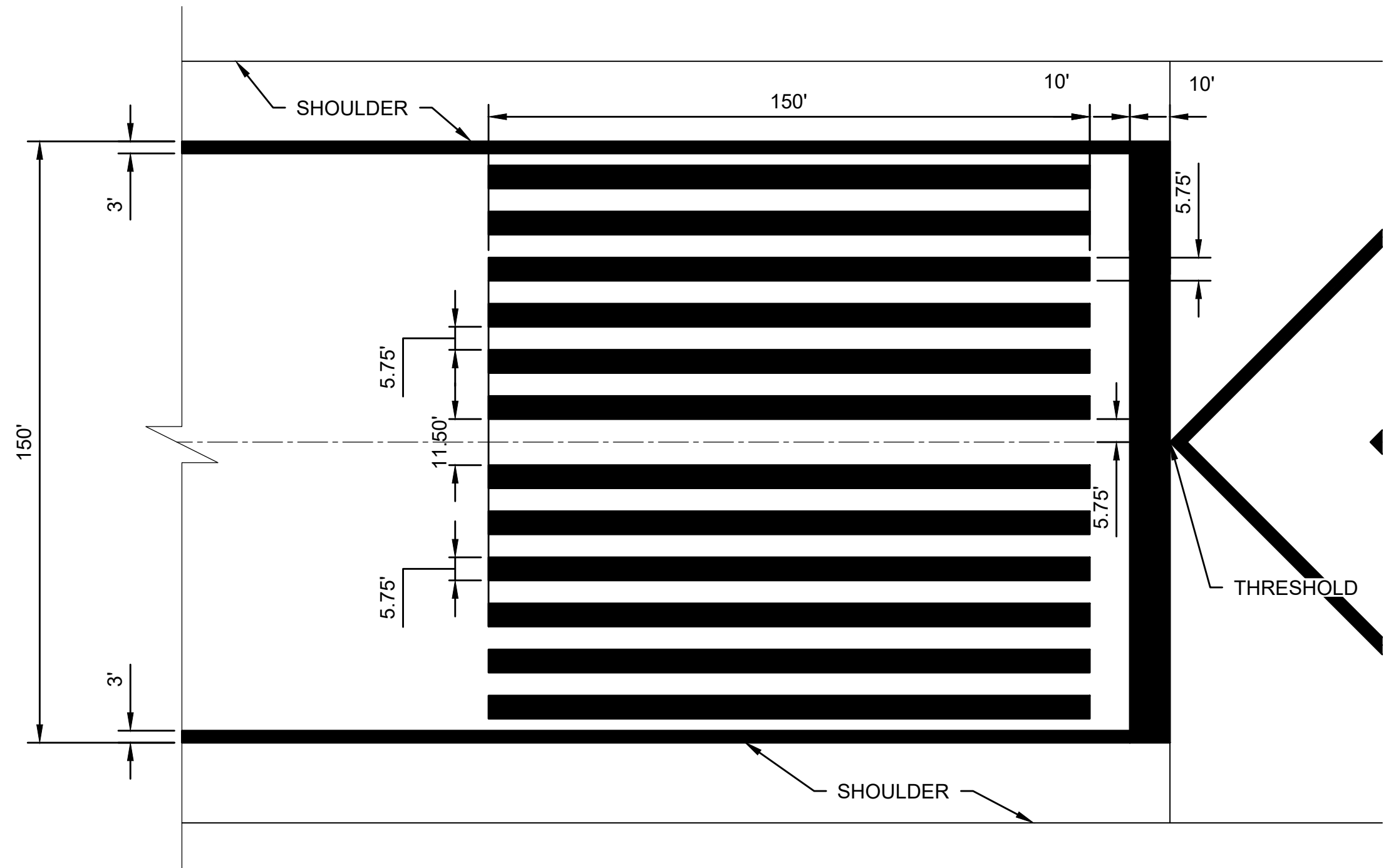
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C350  
SHEET 16 OF 19

PRINT IN COLOR

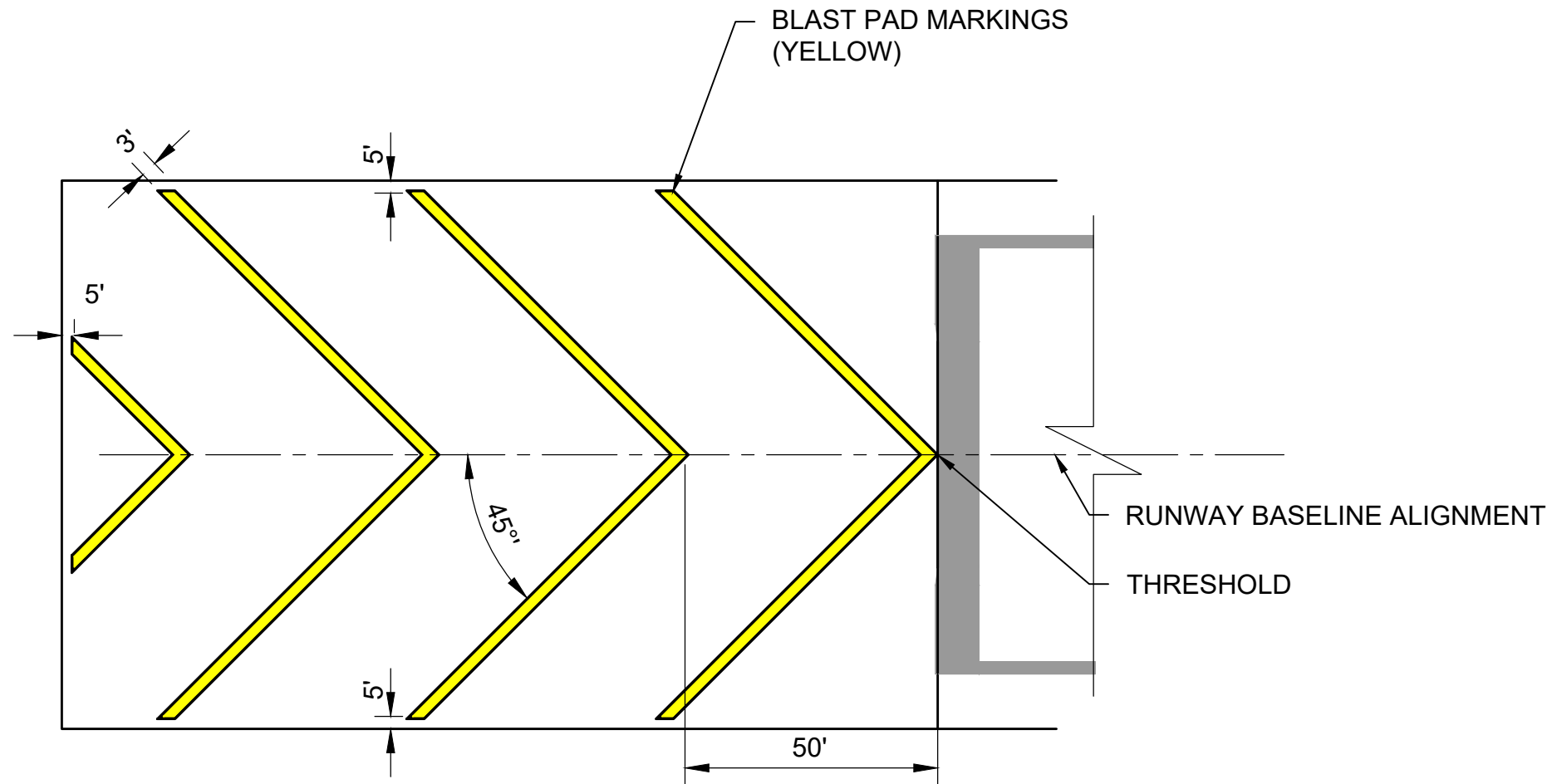
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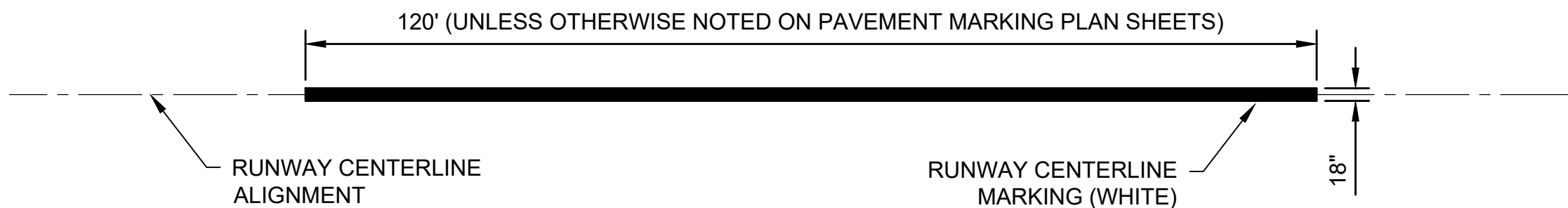
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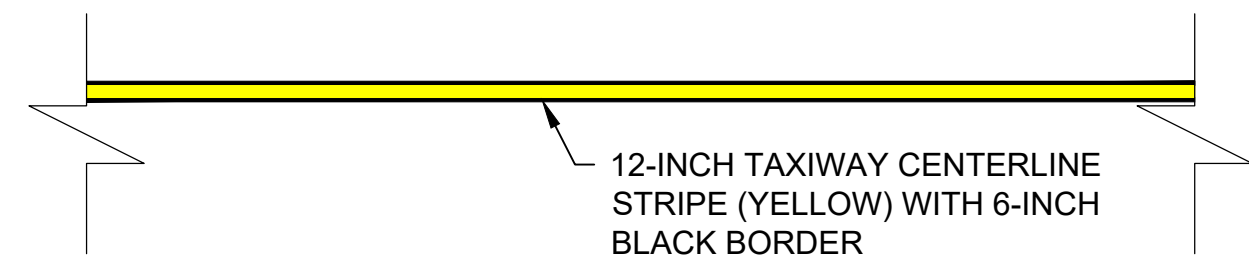
1 RUNWAY THRESHOLD MARKINGS  
SCALE: N.T.S. (WHITE IN COLOR)



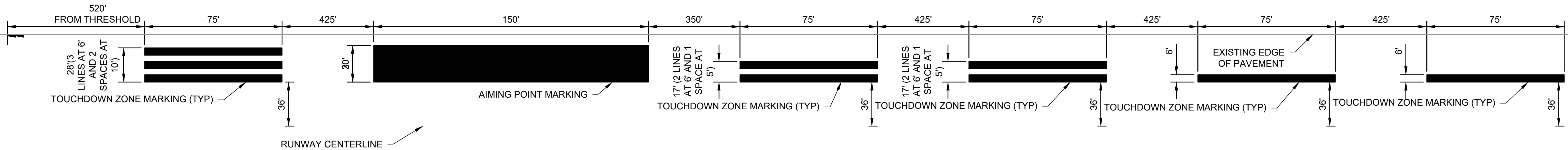
2 BLAST PAD MARKINGS  
SCALE: N.T.S. (YELLOW IN COLOR)



3 RUNWAY CENTERLINE MARKING  
SCALE: N.T.S. (WHITE IN COLOR)



4 TAXIWAY CENTERLINE MARKING  
SCALE: N.T.S. (YELLOW IN COLOR)



5 RUNWAY TOUCHDOWN ZONE AND AIM POINT MARKINGS  
SCALE: N.T.S. (WHITE IN COLOR)

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CHO  
AIRPORT

CHARLOTTESVILLE  
ALBEMARLE  
AIRPORT  
(CHO)

RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: MARCH 2025  
REVIEWED BY: CCA  
DRAWN BY: LSB / RKH  
DESIGNED BY: RSY  
RS&H PROJECT NUMBER  
10541892013  
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SHEET TITLE

PAVEMENT  
MARKING  
DETAILS - 2

SHEET NUMBER

C351

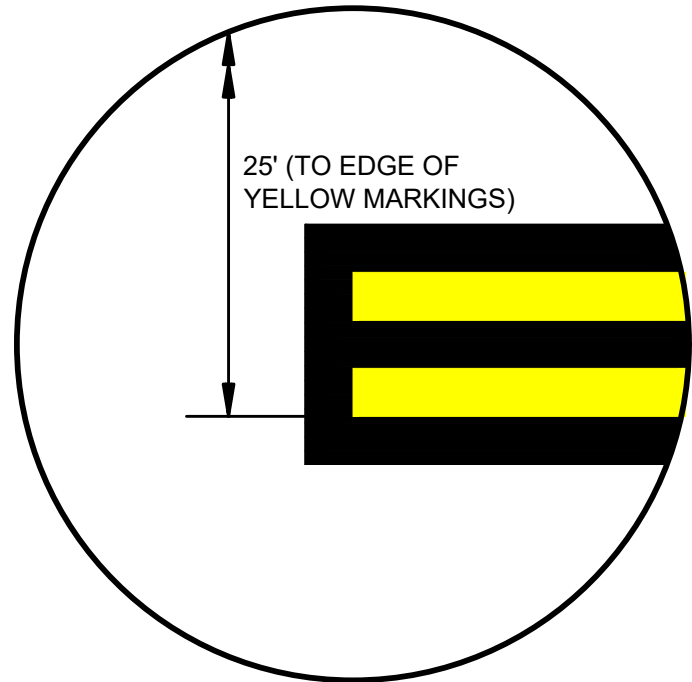
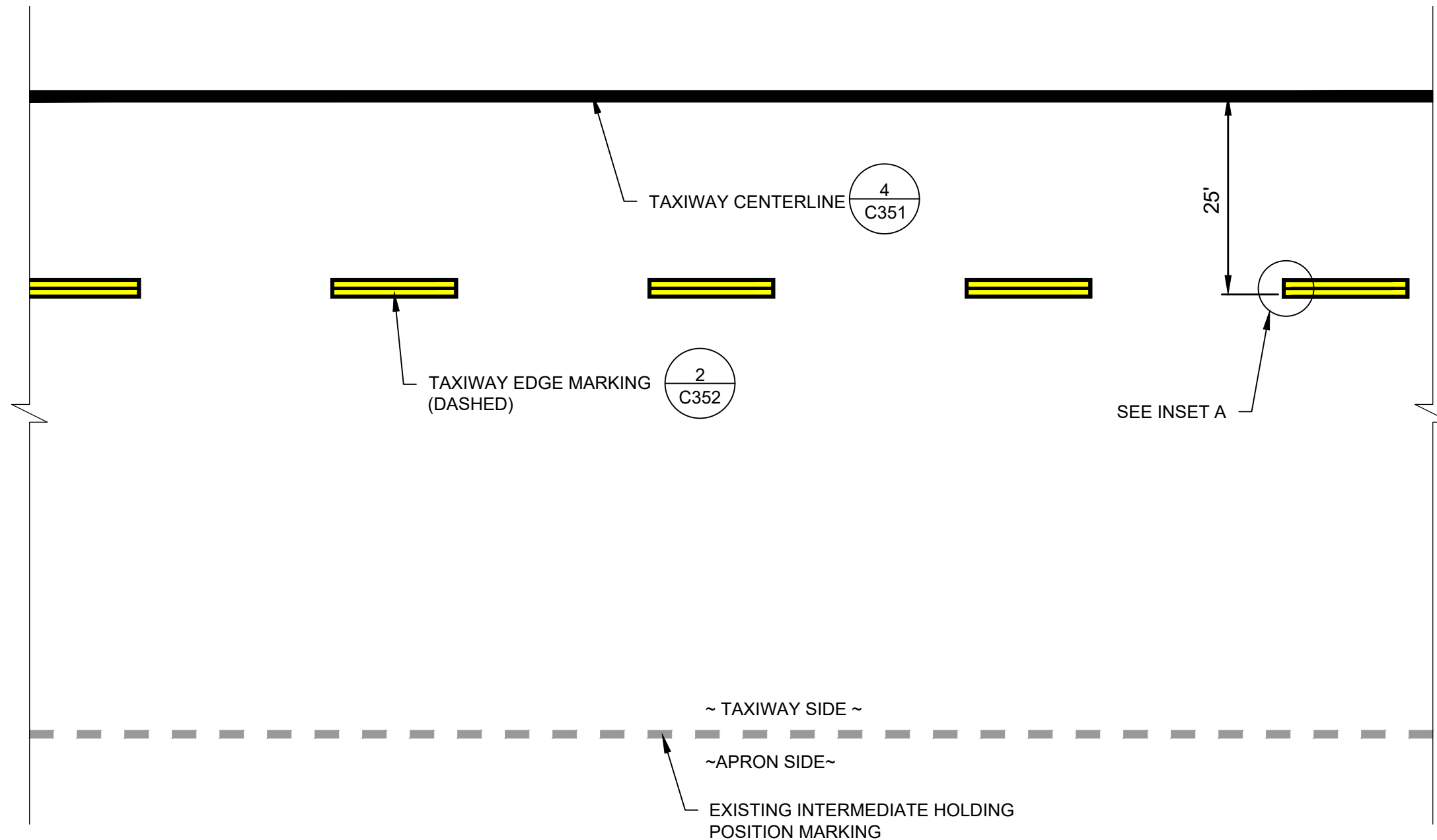
SHEET 17 OF 19

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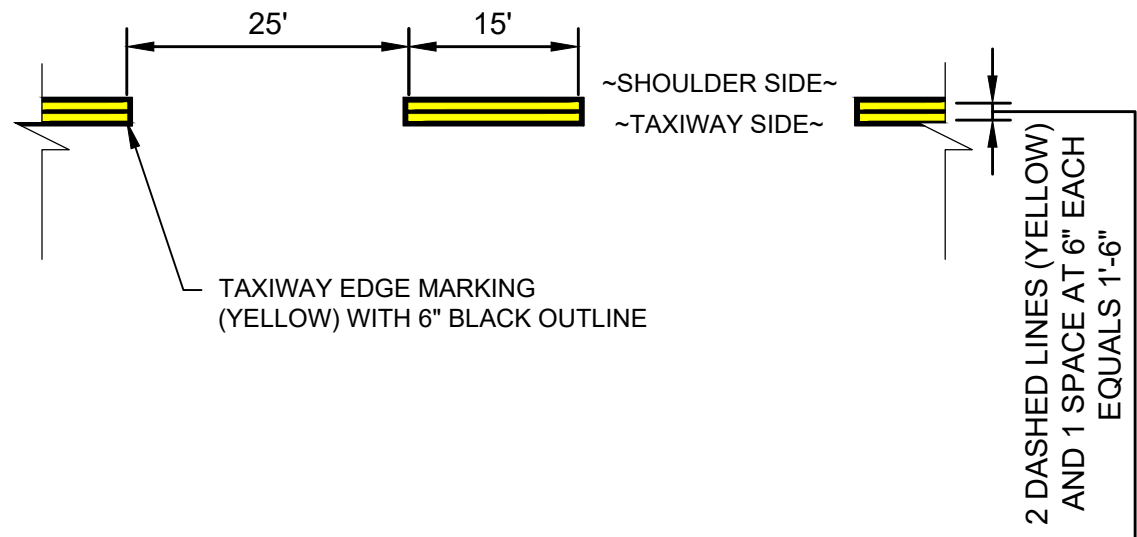
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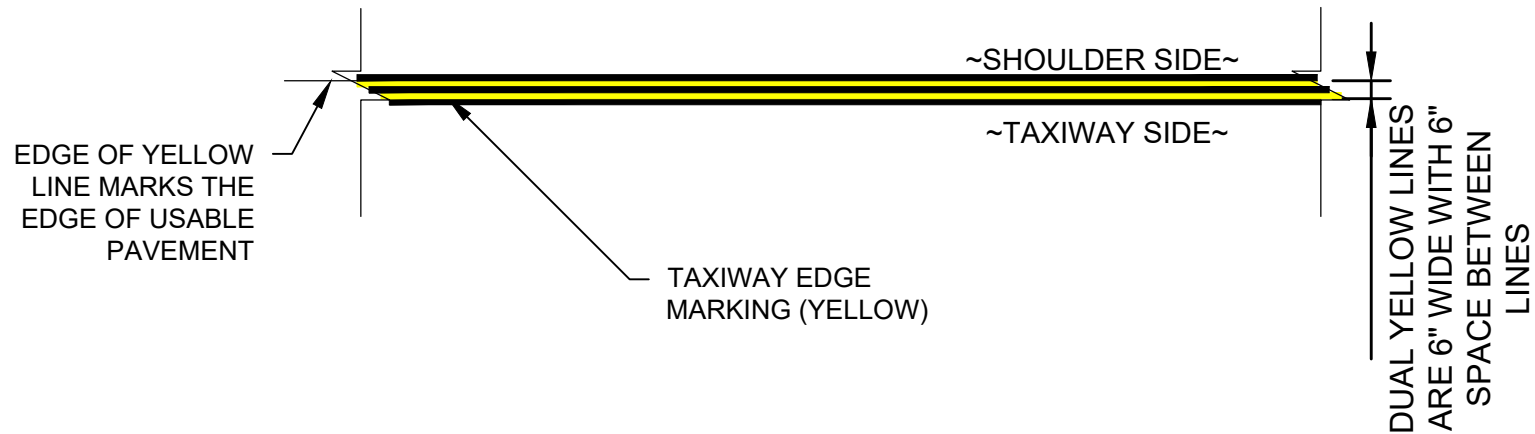
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INSET A.



1 TAXIWAY EDGE MARKING (DASHED)  
SCALE: N.T.S. (YELLOW IN COLOR)



2 TAXIWAY EDGE MARKING (SOLID)  
SCALE: N.T.S. (YELLOW IN COLOR)

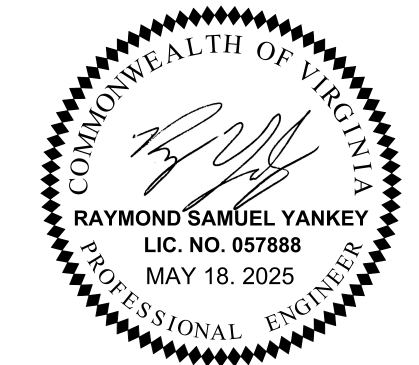
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RUNWAY 3-21 AND  
TAXIWAY A  
PAVEMENT  
MAINTENANCE



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SHEET TITLE

PAVEMENT  
MARKING  
DETAILS - 3

SHEET NUMBER  
C352  
SHEET 18 OF 19

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