

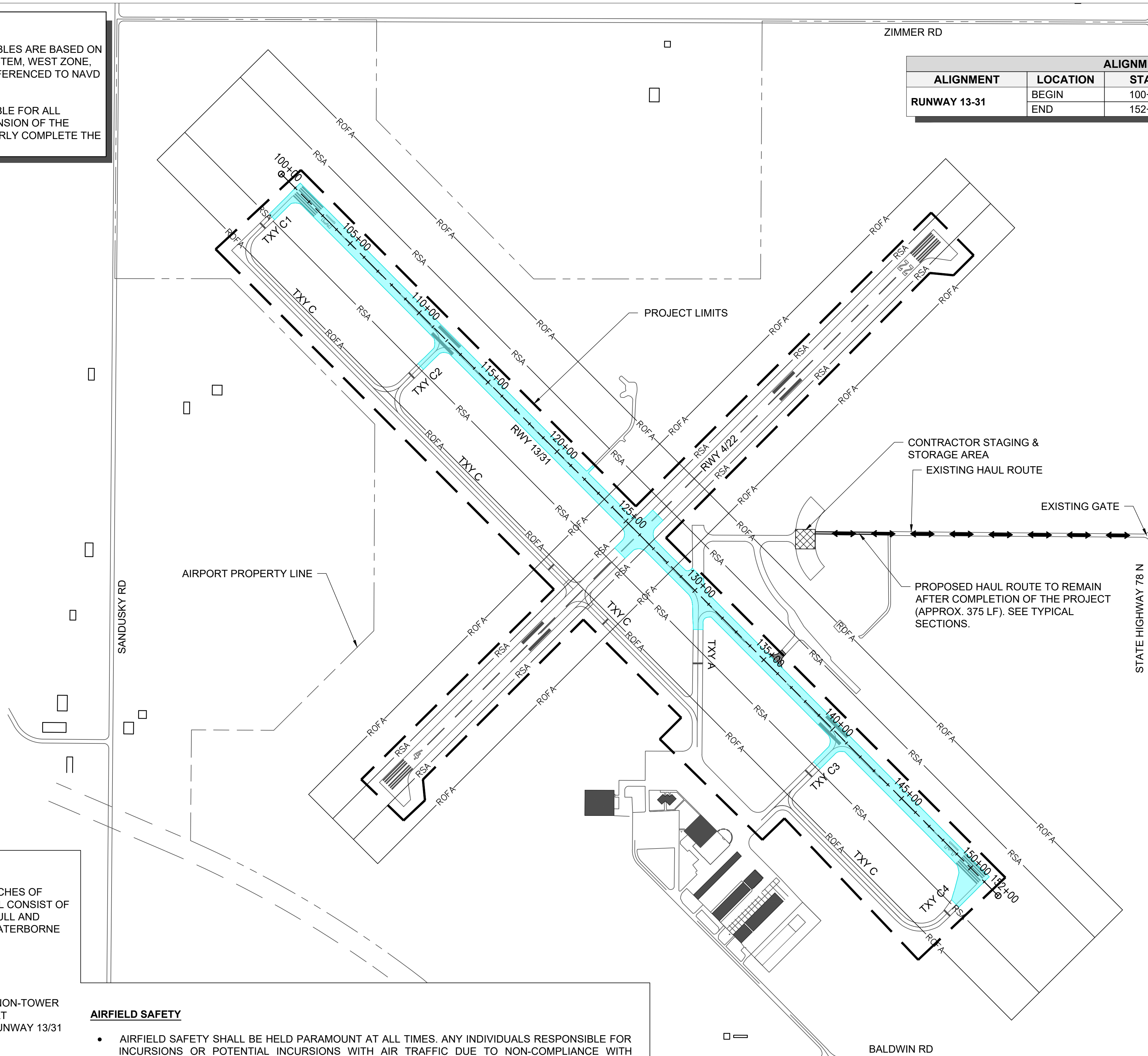




**SURVEY NOTES**

1. ALL COORDINATE VALUES SHOWN IN TABLES ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD-83 (2011). ALL ELEVATIONS ARE REFERENCED TO NAVD 88.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND ANY EXTENSION OF THE CONTROL NETWORK NEEDED TO PROPERLY COMPLETE THE WORK.

ALIGNMENT DATA				
ALIGNMENT	LOCATION	STATION	EASTING	NORTHING
RUNWAY 13-31	BEGIN	100+00.00	2,274,576.07	1,133,567.48
	END	152+00.00	2,278,240.06	1,129,877.61



CONTRACTOR STAGING & STORAGE AREA  
EXISTING HAUL ROUTE  
EXISTING GATE  
PROPOSED HAUL ROUTE TO REMAIN AFTER COMPLETION OF THE PROJECT (APPROX. 375 LF). SEE TYPICAL SECTIONS.

**SCOPE OF WORK**

- PROJECT CONSISTS OF OVERLAYING 2 INCHES OF ASPHALT OVER RUNWAY 13-31. WORK WILL CONSIST OF MILLING (BUTT JOINTS), HMA PATCHING (FULL AND PARTIAL DEPTH), HMA CRACK SEALING, WATERBORNE MARKING, MARKING REMOVAL, SHOULDER ADJUSTMENT, SEEDING, AND MULCHING.

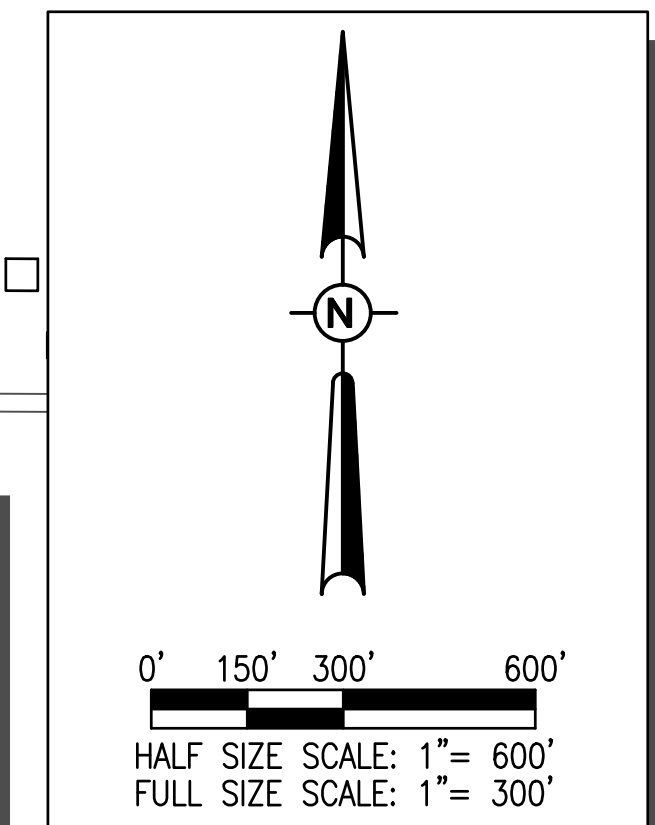
**GENERAL**

- JACKSONVILLE MUNICIPAL AIRPORT IS A NON-TOWER CONTROLLED, GENERAL AVIATION AIRPORT COMPRISED OF TWO PAVED RUNWAYS (RUNWAY 13/31 AND RUNWAY 4/22).
- THE PROPOSED CONSTRUCTION WILL REQUIRE THE PERIODIC CLOSURES OF TAXIWAYS, RUNWAY 13/31, AND RUNWAY 4/22 FOR THE DURATION OF THE PROJECT.
- IN ORDER TO MAINTAIN AN ACTIVE RUNWAY, FLAGGERS WITH TWO-WAY RADIO COMMUNICATION WILL BE REQUIRED DURING PHASE 1.

**AIRFIELD SAFETY**

- AIRFIELD SAFETY SHALL BE HELD PARAMOUNT AT ALL TIMES. ANY INDIVIDUALS RESPONSIBLE FOR INCURSIONS OR POTENTIAL INCURSIONS WITH AIR TRAFFIC DUE TO NON-COMPLIANCE WITH REQUIREMENTS SET FORTH IN THESE PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND FAA ADVISORY CIRCULAR 150/5370-2 (CURRENT EDITION) WILL BE SUBJECT TO AN IMMEDIATE SUSPENSION OF DRIVING PRIVILEGES ON THE AIRPORT OR A COMPLETE RESTRICTION FROM ENTERING THE AIR OPERATIONS AREA ALTOGETHER. THE AIRPORT MANAGER OR RESIDENT ENGINEER/TECHNICIAN MAY STOP THE WORK AT ANY TIME THEY BELIEVE AIRFIELD SAFETY IS BEING COMPROMISED.
- AIRPORT SECURITY WILL BE MAINTAINED AT ALL TIMES. ONLY CONTRACTOR EMPLOYEES SHALL BE ALLOWED WITHIN THE PROJECT LIMITS.

EXISTING	PROPOSED	LEGEND
— RSA —		RUNWAY SAFETY AREA (RSA)
— ROFA —		RUNWAY OBJECT FREE AREA (ROFA)
	[Light Blue Fill]	PROPOSED OVERLAY
	[Cross-hatch Pattern]	STAGING AREA
	[Double Arrow]	TEMPORARY HAUL ROUTE / ACCESS ROUTE (AR150540)



RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

IDA No: IJX-4937  
SBGP No: 3-17-SBGP-TBD  
Contract No.: JA041

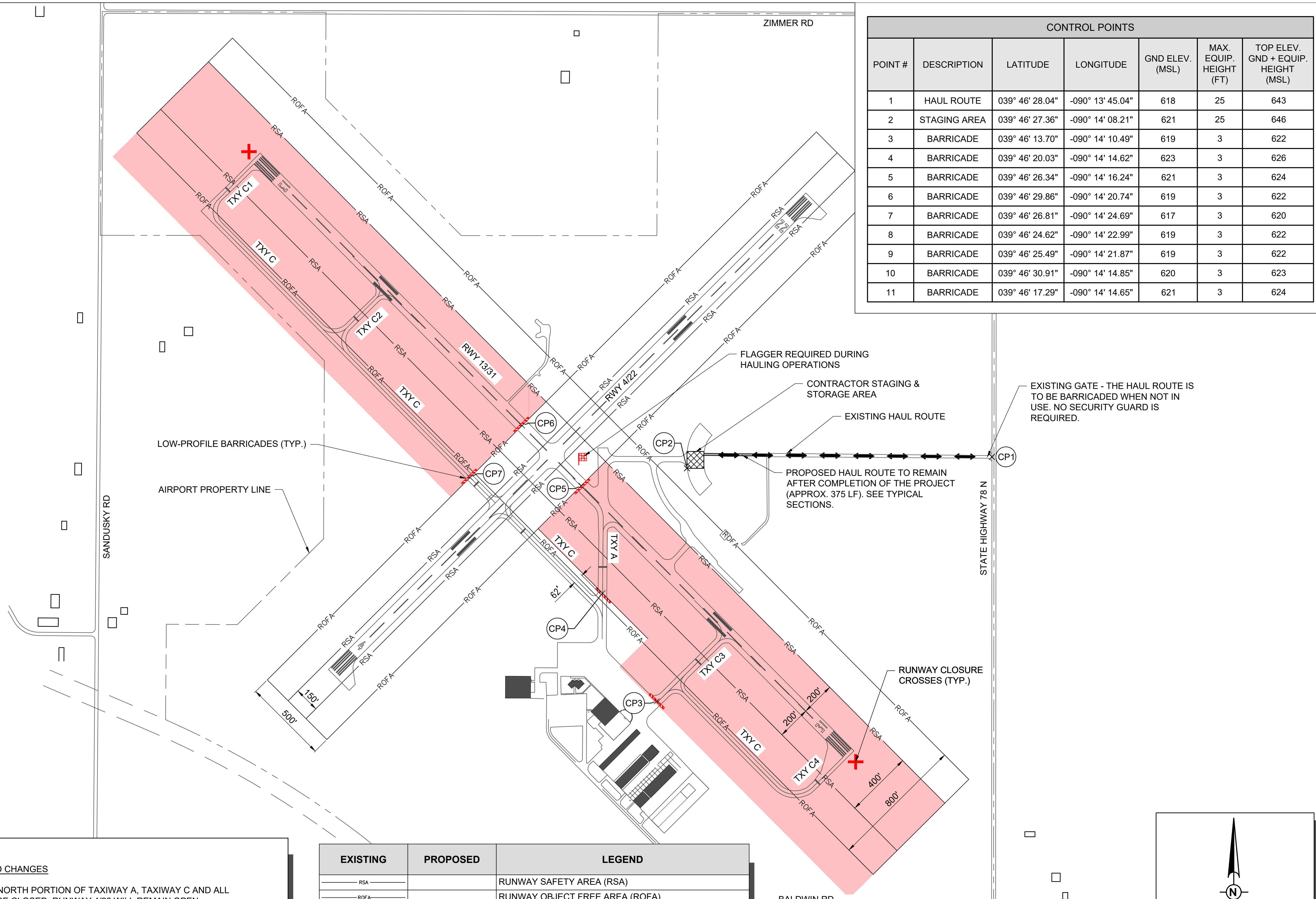
NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: 05/13/22  
PROJECT NO: 21A0103  
CAD FILE: G-103-SOW.DWG  
DESIGN BY: JMO 05/04/2022  
DRAWN BY: HLE 05/04/2022  
REVIEWED BY: JMO 6/10/22

SHEET TITLE

SCOPE OF WORK

CONTROL POINTS						
POINT #	DESCRIPTION	LATITUDE	LONGITUDE	GND ELEV. (MSL)	MAX. EQUIP. HEIGHT (FT)	TOP ELEV. GND + EQUIP. HEIGHT (MSL)
1	HAUL ROUTE	039° 46' 28.04"	-090° 13' 45.04"	618	25	643
2	STAGING AREA	039° 46' 27.36"	-090° 14' 08.21"	621	25	646
3	BARRICADE	039° 46' 13.70"	-090° 14' 10.49"	619	3	622
4	BARRICADE	039° 46' 20.03"	-090° 14' 14.62"	623	3	626
5	BARRICADE	039° 46' 26.34"	-090° 14' 16.24"	621	3	624
6	BARRICADE	039° 46' 29.86"	-090° 14' 20.74"	619	3	622
7	BARRICADE	039° 46' 26.81"	-090° 14' 24.69"	617	3	620
8	BARRICADE	039° 46' 24.62"	-090° 14' 22.99"	619	3	622
9	BARRICADE	039° 46' 25.49"	-090° 14' 21.87"	619	3	622
10	BARRICADE	039° 46' 30.91"	-090° 14' 14.85"	620	3	623
11	BARRICADE	039° 46' 17.29"	-090° 14' 14.65"	621	3	624



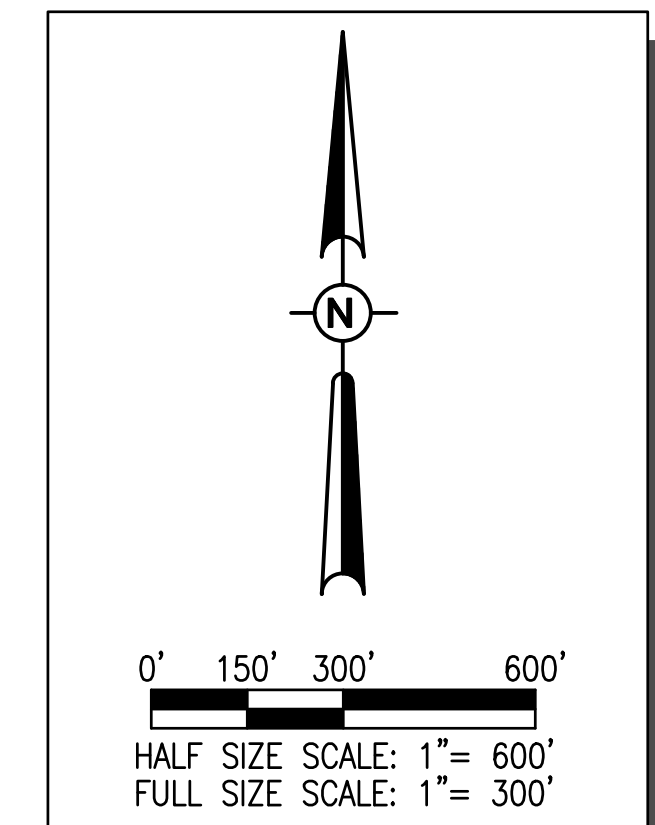
**PHASE 1**  
**AIRFIELD CLOSURES AND CHANGES**

- RUNWAY 13/31, THE NORTH PORTION OF TAXIWAY A, TAXIWAY C AND ALL CONNECTORS WILL BE CLOSED. RUNWAY 4/22 WILL REMAIN OPEN.

**WORK TO BE COMPLETED**

- MILLING, PATCHING, PAVING, CRACK SEALING, SHOULDER ADJUSTMENT, SEEDING, AND MULCHING SHALL BE COMPLETED.
- RUNWAY AND TAXIWAY MARKING AS SHOWN. IF APPROVED BY THE AIRPORT MANAGER, ALL MARKINGS MAY BE COMPLETED IN PHASE 3.

EXISTING	PROPOSED	LEGEND
— RSA		RUNWAY SAFETY AREA (RSA)
— ROFA		RUNWAY OBJECT FREE AREA (ROFA)
— ROFZ		RUNWAY OBSTACLE FREE ZONE (ROFZ)
	[Red shaded area]	PROPOSED AIRFIELD WORK AREA
	[Cross-hatched area]	STAGING AREA (AR150520)
	[Red 'X' symbol]	TEMPORARY RUNWAY CLOSURE CROSS (AR150530)
	[Red and white striped barrier symbol]	LOW PROFILE BARRICADE (AR150530)
	[Black and white arrow symbol]	TEMPORARY HAUL ROUTE / ACCESS ROUTE (AR150540)
	[Red and white checkered square symbol]	ESCORT/FLAGMAN LOCATION
	[Circle with number 1 symbol]	SAFETY CRITICAL POINT



**RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS**

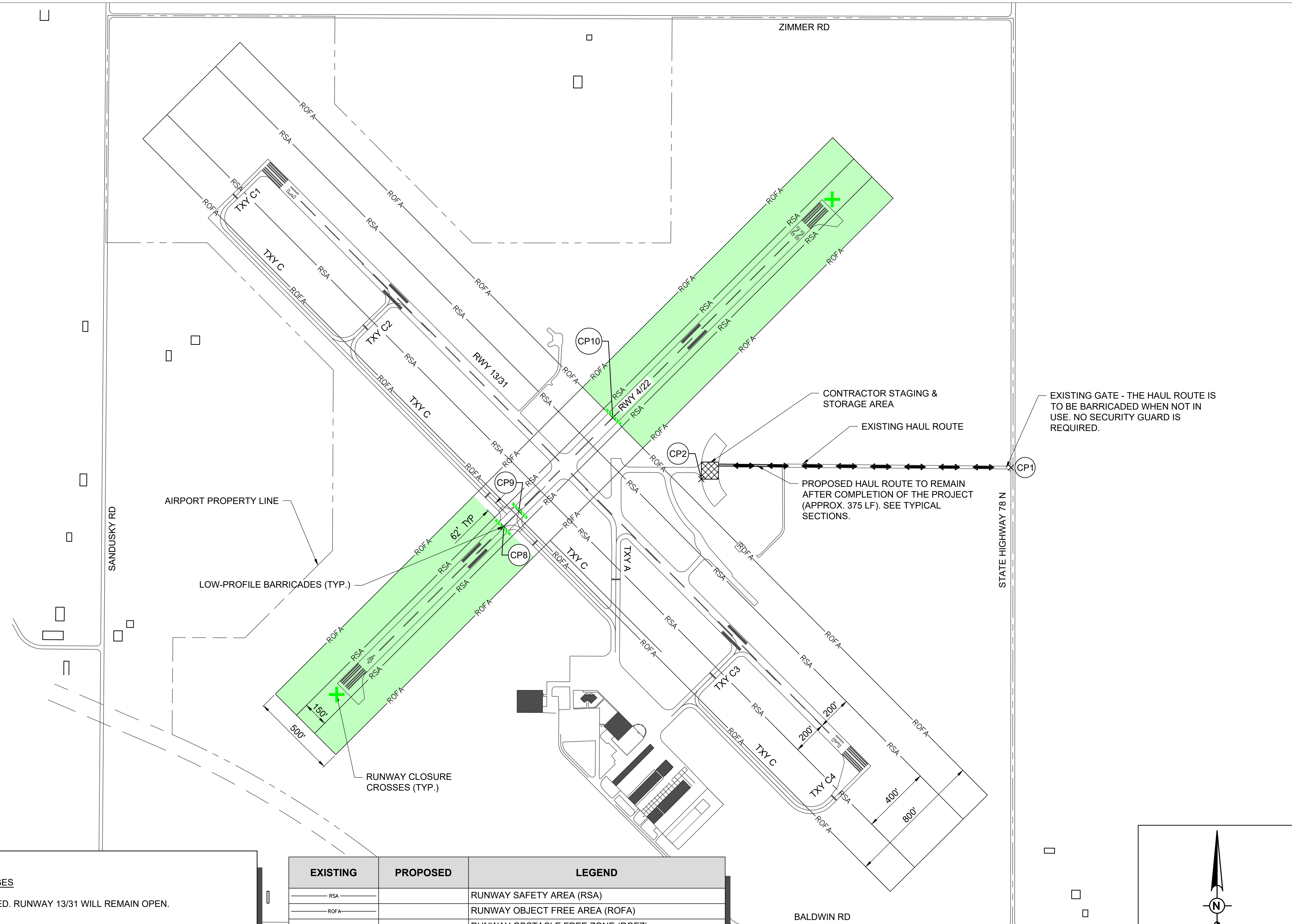
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ISSUE: 05/13/22  
PROJECT NO: 21A0103  
CAD FILE: C-104-CSPP.DWG  
DESIGN BY: JMO 05/04/2022  
DRAWN BY: HLE 05/04/2022  
REVIEWED BY: JMO 6/10/22

SHEET TITLE

**SAFETY PLAN - PHASE 1**



EXISTING GATE - THE HAUL ROUTE IS TO BE BARRICADED WHEN NOT IN USE. NO SECURITY GUARD IS REQUIRED.

CONTRACTOR STAGING & STORAGE AREA

EXISTING HAUL ROUTE

PROPOSED HAUL ROUTE TO REMAIN AFTER COMPLETION OF THE PROJECT (APPROX. 375 LF). SEE TYPICAL SECTIONS.

AIRPORT PROPERTY LINE

LOW-PROFILE BARRICADES (TYP.)

RUNWAY CLOSURE CROSSES (TYP.)

**PHASE 2**

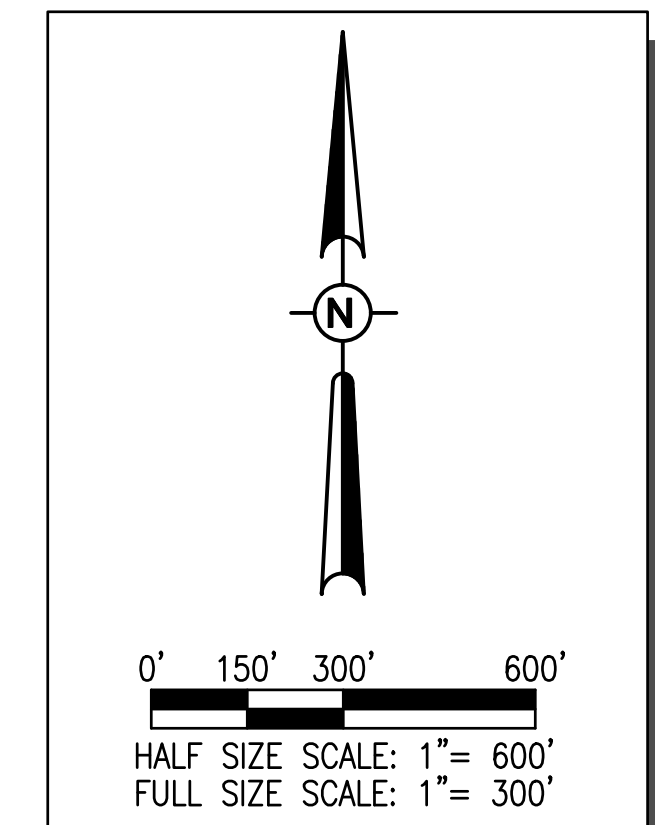
AIRFIELD CLOSURES AND CHANGES

- RUNWAY 4/22 WILL BE CLOSED. RUNWAY 13/31 WILL REMAIN OPEN.

WORK TO BE COMPLETED

- RUNWAY AND TAXIWAY MARKING AS SHOWN. IF APPROVED BY THE AIRPORT MANAGER, ALL MARKINGS MAY BE COMPLETED IN PHASE 3.

EXISTING	PROPOSED	LEGEND
— RSA		RUNWAY SAFETY AREA (RSA)
— ROFA		RUNWAY OBJECT FREE AREA (ROFA)
— ROFZ		RUNWAY OBSTACLE FREE ZONE (ROFZ)
	[Green Shaded Area]	PROPOSED AIRFIELD WORK AREA
	[Cross-hatched Area]	STAGING AREA (AR150520)
	[Green X]	TEMPORARY RUNWAY CLOSURE CROSS (AR150530)
	[Green Zigzag]	LOW PROFILE BARRICADE (AR150530)
	[Black Arrow]	TEMPORARY HAUL ROUTE / ACCESS ROUTE (AR150540)
	[Green Grid]	ESCORT/FLAGMAN LOCATION
	[Circle with 1]	SAFETY CRITICAL POINT



RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

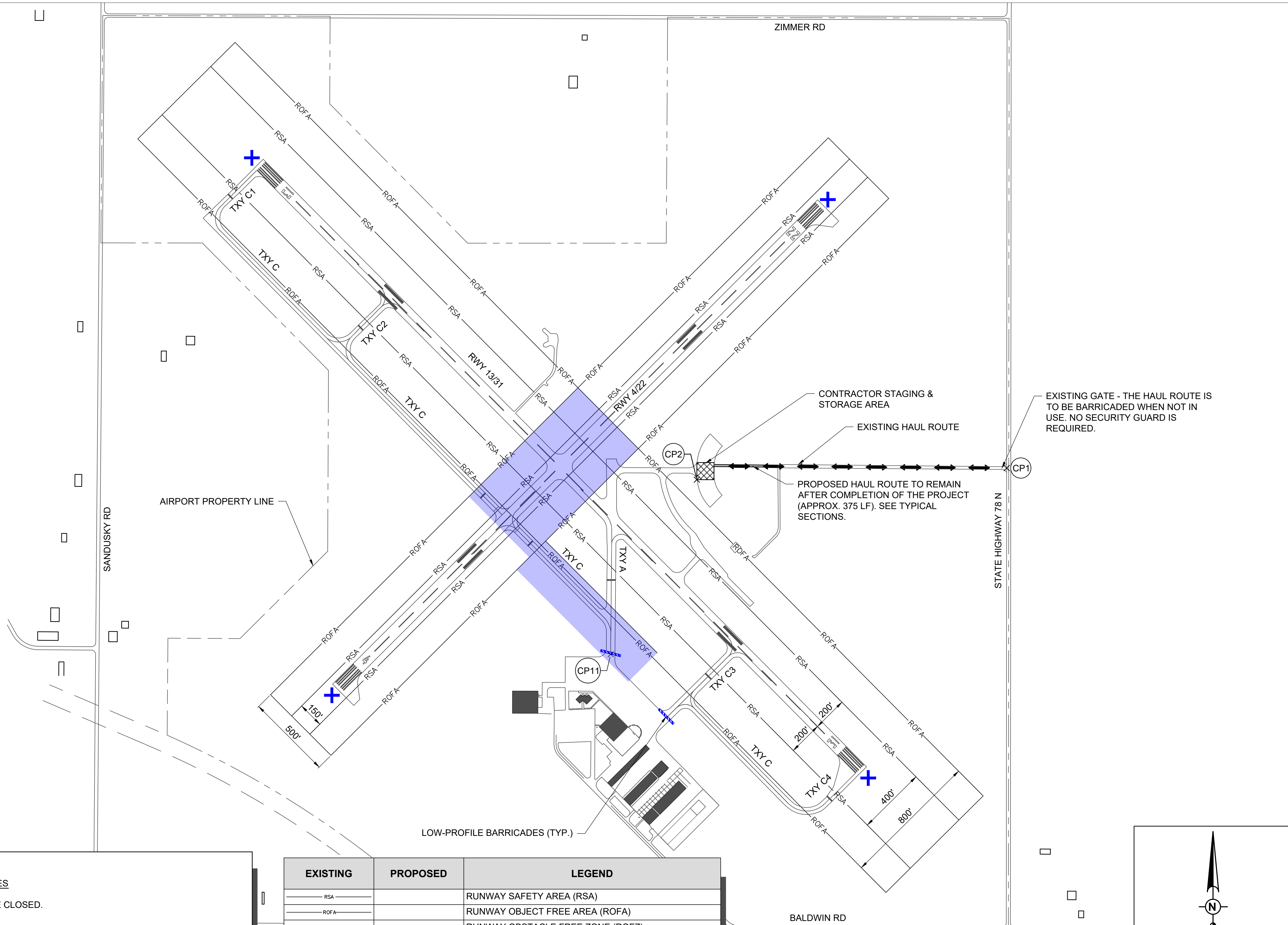
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SHEET TITLE

SAFETY PLAN - PHASE 2



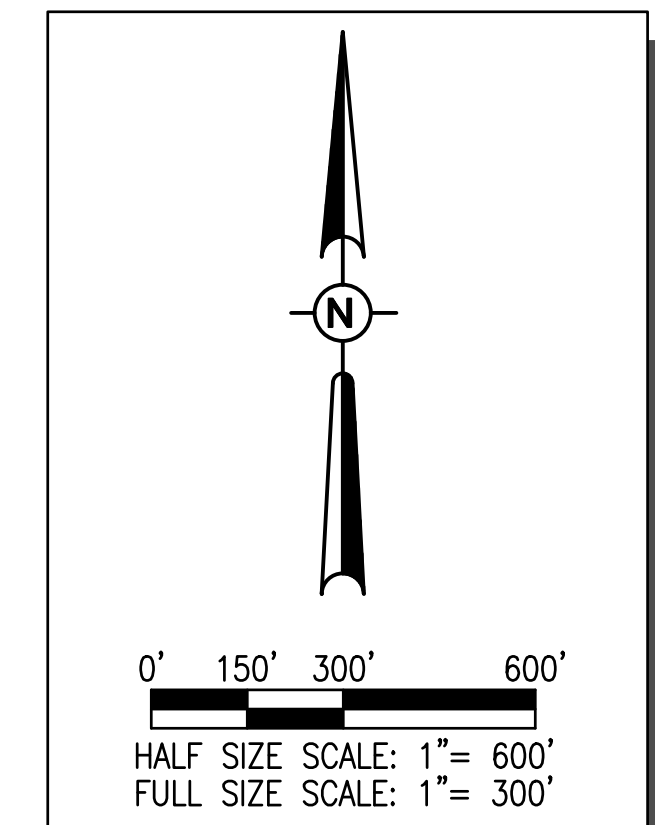
**PHASE 3**  
**AIRFIELD CLOSURES AND CHANGES**

- THE ENTIRE AIRFIELD WILL BE CLOSED.

**WORK TO BE COMPLETED**

- MILLING, PATCHING, PAVING, CRACK SEALING, SHOULDER ADJUSTMENT, SEEDING, AND MULCHING SHALL BE COMPLETED.
- RUNWAY AND TAXIWAY MARKING AS SHOWN.

EXISTING	PROPOSED	LEGEND
— RSA		RUNWAY SAFETY AREA (RSA)
— ROFA		RUNWAY OBJECT FREE AREA (ROFA)
— ROFZ		RUNWAY OBSTACLE FREE ZONE (ROFZ)
	[Blue Shaded Area]	PROPOSED AIRFIELD WORK AREA
	[Hatched Area]	STAGING AREA (AR150520)
	[Blue X]	TEMPORARY RUNWAY CLOSURE CROSS (AR150530)
	[Blue Zigzag]	LOW PROFILE BARRICADE (AR150530)
	[Blue Arrow]	TEMPORARY HAUL ROUTE / ACCESS ROUTE (AR150540)
	[Blue Grid]	ESCORT/FLAGMAN LOCATION
	[Circle with 1]	SAFETY CRITICAL POINT



EXISTING GATE - THE HAUL ROUTE IS TO BE BARRICADED WHEN NOT IN USE. NO SECURITY GUARD IS REQUIRED.

CONTRACTOR STAGING & STORAGE AREA

EXISTING HAUL ROUTE

PROPOSED HAUL ROUTE TO REMAIN AFTER COMPLETION OF THE PROJECT (APPROX. 375 LF). SEE TYPICAL SECTIONS.

RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

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SHEET TITLE

SAFETY PLAN - PHASE 3

**SAFETY NOTES**

- ALL PROVISIONS OF THE LATEST EDITION OF FAA ADVISORY CIRCULAR AC 150/5370-2 (CURRENT EDITION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", APPLY TO THIS CONTRACT, EXCEPT AS MODIFIED BY THIS SAFETY PLAN, OR AS MODIFIED BY THE OWNER THROUGH THE RESIDENT ENGINEER/TECHNICIAN AT THE PRECONSTRUCTION CONFERENCE, OR DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTORS SHALL MINIMIZE DISRUPTION OF STANDARD OPERATING PROCEDURES FOR AERONAUTICAL ACTIVITY BY REMAINING WITHIN THE PRESCRIBED STAGING, CONSTRUCTION, AND PHASING AREAS PRESENTED ON THE CONSTRUCTION SAFETY AND PHASING PLAN SHEETS.
- NO UNAUTHORIZED PERSONNEL SHALL ENTER ANY AREA OF THE AIRPORT THAT COULD POTENTIALLY BE HAZARDOUS. THE AIRPORT MANAGER RESERVES THE RIGHT TO SUSPEND OPERATIONS IN ORDER TO MAINTAIN SAFETY AT THE AIRPORT.
- PRIOR TO ACCESSING THE AIRFIELD, ANY DESIGNATED CONTRACTOR OR SUBCONTRACTOR EMPLOYEES WHO WILL BE OPERATING OR ESCORTING A VEHICLE ON AN ACTIVE AREA OF THE AIRFIELD MUST BE FAMILIAR WITH THE "FAA GUIDE TO GROUND VEHICLE OPERATIONS", AND KEEP A HARD COPY IN THE VEHICLE FOR REFERENCE. THE GUIDE CAN BE FOUND AT: [https://www.faa.gov/airports/runway\\_safety/media/Ground\\_Vehicle\\_Guide\\_Proof\\_Final.pdf](https://www.faa.gov/airports/runway_safety/media/Ground_Vehicle_Guide_Proof_Final.pdf)
- NO CONSTRUCTION VEHICLES SHALL BE DRIVEN ACROSS ANY ACTIVE (OPEN) AIRFIELD PAVEMENT AREA WITHOUT AN APPROPRIATE ESCORT. CONSTRUCTION EQUIPMENT OR CONSTRUCTION ACTIVITY WILL NOT BE PERMITTED WITHIN 250' OF RWY 13/31 AND/OR 125' OF RWY 4/22 (DISTANCES MEASURED FROM ACTIVE CENTERLINES) UNLESS CLOSED OR OTHERWISE NOTED. CONSTRUCTION EQUIPMENT OR CONSTRUCTION ACTIVITY WILL ALSO NOT BE PERMITTED WITHIN WITHIN 62' OF ANY ACTIVE AIRPORT TAXIWAY CENTERLINE OR APRON UNLESS OTHERWISE NOTED.
- CONTRACTOR EQUIPMENT, VEHICLES, AND PROJECT MATERIALS SHALL BE STORED AT THE STAGING AREA SHOWN ON THE PLAN VIEW, EXCEPT AS OTHERWISE PROVIDED FOR AT THE PRE-CONSTRUCTION CONFERENCE.
- ALL CONSTRUCTION EQUIPMENT OPERATING IN THE PRESCRIBED CONSTRUCTION AREA IS REQUIRED TO DISPLAY A CHECKERBOARD FLAG PROPERLY LOCATED OR A ROTATING BEACON (STROBE) AS SPECIFIED IN AC 150/5210-5, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT" LATEST EDITION.
- NO CONSTRUCTION MATERIAL STOCKPILES SHALL BE LOCATED WITHIN 250' OF ANY ACTIVE RUNWAY, WITHIN 62' OF ANY OTHER ACTIVE AIRPORT OPERATIONS AREA, OR PENETRATE A PART 77 IMAGINARY SURFACE (PROVIDED BY THE RESIDENT ENGINEER/TECHNICIAN) EXTENDING OUT AND UPWARDS FROM ALL SIDES OF AN ACTIVE RUNWAY.
- CLOSED AIRFIELD PHASING AREAS, OPEN TRENCHES, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH LIGHTED BARRICADES WITH STEADY BURNING OR FLASHING RED LIGHTS AS SPECIFIED IN 150/5370-2, "OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION", LATEST EDITION. LIGHTED BARRICADES MUST BE NO TALLER THAN 18" (EXCLUSIVE OF SUPPLEMENTARY LIGHTS AND FLAGS) ON THE TAXIWAYS AND COMPLY WITH ADVISORY CIRCULAR 150/5370-2, LATEST EDITION. CONTRACTOR SHALL NIGHT CHECK BARRICADES DAILY FOR PROPER OPERATION.
- OPEN TRENCHES, EXCAVATIONS, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHOULD BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING RED LIGHTS DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS.
- NO CONSTRUCTION EQUIPMENT GREATER THAN 25' TALL WILL BE PERMITTED ON THE AIRPORT WITHOUT THE APPROVAL OF THE AIRPORT MANAGER AND ADDITIONAL AIRSPACE APPROVAL BY THE FAA. AIRSPACE APPROVALS REQUIRE CONSIDERABLE LEAD TIME AND SHOULD BE REQUESTED WELL IN ADVANCE.
- NO OPEN FLAME WELDING OR TORCH CUTTING OPERATION IS PERMITTED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED BY THE AIRPORT MANAGER NO FLARE POTS ARE ALLOWED ON THE PROJECT.
- SOIL, DEBRIS, AND LOOSE MATERIAL DROPPED OR TRUCKED ONTO AIRPORT ROADS, TAXIWAYS, AND SOD SURFACES, OR WHICH CAN BE BLOWN ONTO SUCH SURFACES, SHALL BE IMMEDIATELY SWEEP, PICKED UP AND REMOVED, OR PLACED INTO CLOSED CONTAINERS. ANY DAMAGE TO AIRPORT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER.
- CONTRACTOR SHALL TAKE MEASURES TO AVOID TRACKING BITUMINOUS TACK COAT ASSOCIATED WITH PAVING PROJECTS ONTO ADJACENT PAVEMENT AREAS, ESPECIALLY GROOVED RUNWAY PAVEMENTS, UNLESS SUFFICIENT PROTECTION HAS BEEN APPLIED. HEAVY TRACKING OR DAMAGE TO ADJACENT PAVEMENTS AND GROOVED SURFACES MAY BE CAUSE FOR STOPPING THE WORK UNTIL ACCEPTABLE PROTECTION OR CHANGE IN WORK METHODS HAS BEEN PROVIDED.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING AIRPORT LIGHTING AND NAVIGATIONAL ELECTRICAL SYSTEMS DURING CONSTRUCTION. A CONTACT PERSON AND TELEPHONE NUMBER FOR 24 HOUR EMERGENCY IMMEDIATE REPAIR SHALL BE SUBMITTED TO THE AIRPORT MANAGER AND RESIDENT ENGINEER/TECHNICIAN. HAUL ROUTES CROSSING PAVEMENT, DRAINAGE, MISCELLANEOUS. STRUCTURES AND/OR AIRFIELD CABLES SHALL BE PROTECTED FROM DAMAGE.
- ALL AIRCRAFT AND AIRPORT OPERATIONS HAVE THE RIGHT-OF-WAY. CONTRACTOR TO YIELD TO VEHICLES AND REMAIN CLEAR AT ALL TIMES.
- CONTRACTOR SHALL PLACE, SECURE, AND MAINTAIN LIGHTED BARRICADES AND CLOSURE CROSSES WHEN A RUNWAY/TAXIWAY/APRON IS CLOSED OR AS REQUIRED BY THE PLANS AND DESIGNATED BY THE RESIDENT ENGINEER/TECHNICIAN.
- CONTRACTOR SHALL MARK HAZARDOUS AREA WITH STEADY-BURNING OR FLASHING RED LIGHTS DURING PERIODS OF LOW VISIBILITY AS REQUIRED.

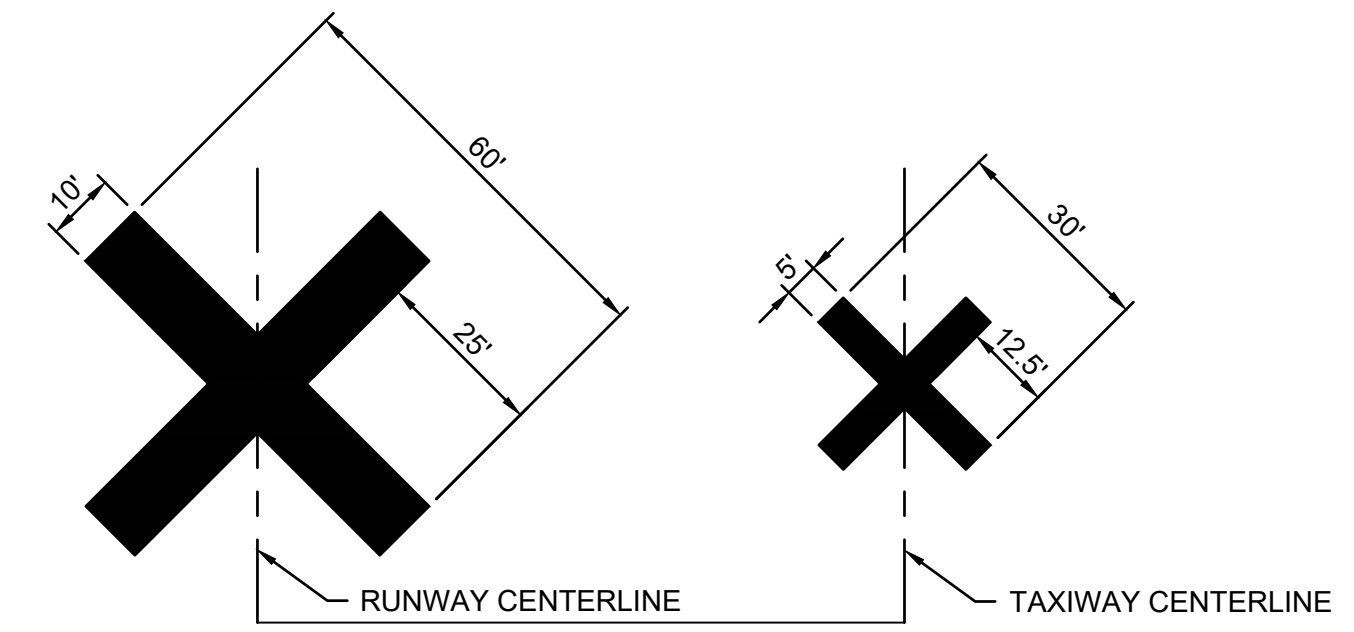
- THE CONTRACTOR SHALL PERIODICALLY PERFORM ONSITE INSPECTIONS THROUGHOUT THE DURATION OF THE PROJECT WITH THE IMMEDIATE REMEDY OF ANY DIFFERENCES, WHETHER CAUSED BY NEGLIGENCE, OVERSIGHT, OR PROJECT SCOPE CHANGE.
- CONTRACTOR SHALL MOVE MAINTENANCE OF TRAFFIC COMPONENTS AT THE WRITTEN DIRECTION OF THE RESIDENT ENGINEER/TECHNICIAN AT NO ADDITIONAL COST.
- CONTRACTOR SHALL NOT REMOVE THE BARRICADES WITHOUT THE APPROVAL BY THE RESIDENT ENGINEER/TECHNICIAN.
- CONTRACTOR SHALL MAINTAIN FLASHERS, SIGNS AND/OR BARRICADES AS REQUIRED BY THE PLANS, CITY OR COUNTY REGULATIONS OR CONTRACTOR ACTIVITIES. CONTRACTOR SHALL OBTAIN ANY AND ALL REQUIRED LOCAL PERMITS UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR SHALL UTILIZE WATER AND/OR CHEMICALS APPROVED BY THE RESIDENT ENGINEER/TECHNICIAN AS NECESSARY TO CONTROL DUST.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING MEASURES TO CONTROL OR AVOID CREATING ATTRACTANTS TO WILDLIFE. MEASURES MAY INCLUDE CONTINUOUSLY REMOVING ANY WASTE OR LOOSE MATERIALS, PLACEMENT OF MATERIALS IN APPROPRIATE STORAGE CONTAINERS, PROPERLY MAINTAINING FENCES AND GATES TO PREVENT ACCESS, AND PREVENTING PONDING OF WATER THROUGHOUT THE SITE.
- UNLESS SPECIFIED OTHERWISE, COST FOR SAFETY, STAGING, AND TRAFFIC MAINTENANCE ITEMS IS TO BE CONSIDERED INCIDENTAL TO THE PROJECT. SEPARATE PAYMENT SHALL NOT BE MADE.
- THE CONTRACTOR SHALL HAVE THE SAFETY PLAN COMPLIANCE DOCUMENT (SPCD), AS DETAILED IN THE SPECIAL PROVISIONS, SUBMITTED AND APPROVED PRIOR TO BEING ISSUED "NOTICE TO PROCEED".
- ALL RUNWAY/TAXIWAY CLOSURES SHALL BE COORDINATED WITH AIRPORT MANAGEMENT A MINIMUM OF 7 DAYS BEFORE THE DESIRED CLOSING TIME TO ALLOW FOR THE PROPER COORDINATION. AIRPORT MANAGEMENT HAS COMPLETE AUTHORITY IN DETERMINING WHEN THE RUNWAY/TAXIWAY MAY BE CLOSED.
- RUNWAY/TAXIWAY CLOSURE PROCEDURES:
  - CONTACT THE AIRPORT MANAGEMENT OR ASSIGNED REPRESENTATIVE A MINIMUM OF 7 DAYS BEFORE THE DESIRED CLOSING TIME.
  - ISSUANCE OF NOTAM AND DEACTIVATION OF THE APPLICABLE AIRFIELD LIGHTING AND NAVAIDS BY THE AIRPORT MANAGEMENT AND/OR FAA.
  - PLACEMENT OF CROSSES AND BARRICADES.
  - ONLY AT THE TIME THAT ALL OF THE ABOVE ARE COMPLETED MAY ANY CONSTRUCTION OPERATIONS BEGIN WITHIN THE RUNWAY/TAXIWAY AIR OPERATIONS AREA.

**RUNWAY/TAXIWAY RE-OPENING PROCEDURES:**

- ENSURE ALL PERSONNEL, EQUIPMENT AND MATERIALS ARE CLEAR OF THE AIR OPERATIONS AREA.
- INSPECT THE AREA FOR LOOSE OR TRACKED DEBRIS, PAVEMENT DROP-OFFS, AND OPEN TRENCHES.
- CONTACT AIRPORT MANAGEMENT OR REPRESENTATIVE FOR FINAL INSPECTION OF THE AREA.
- REMOVE BARRICADES AND CROSSES.
- ACTIVATION OF THE AIRFIELD LIGHTING AND NAVAIDS AND CANCELLATION OF THE NOTAM BY THE AIRPORT MANAGEMENT AND/OR FAA.

**BARRICADE NOTES**

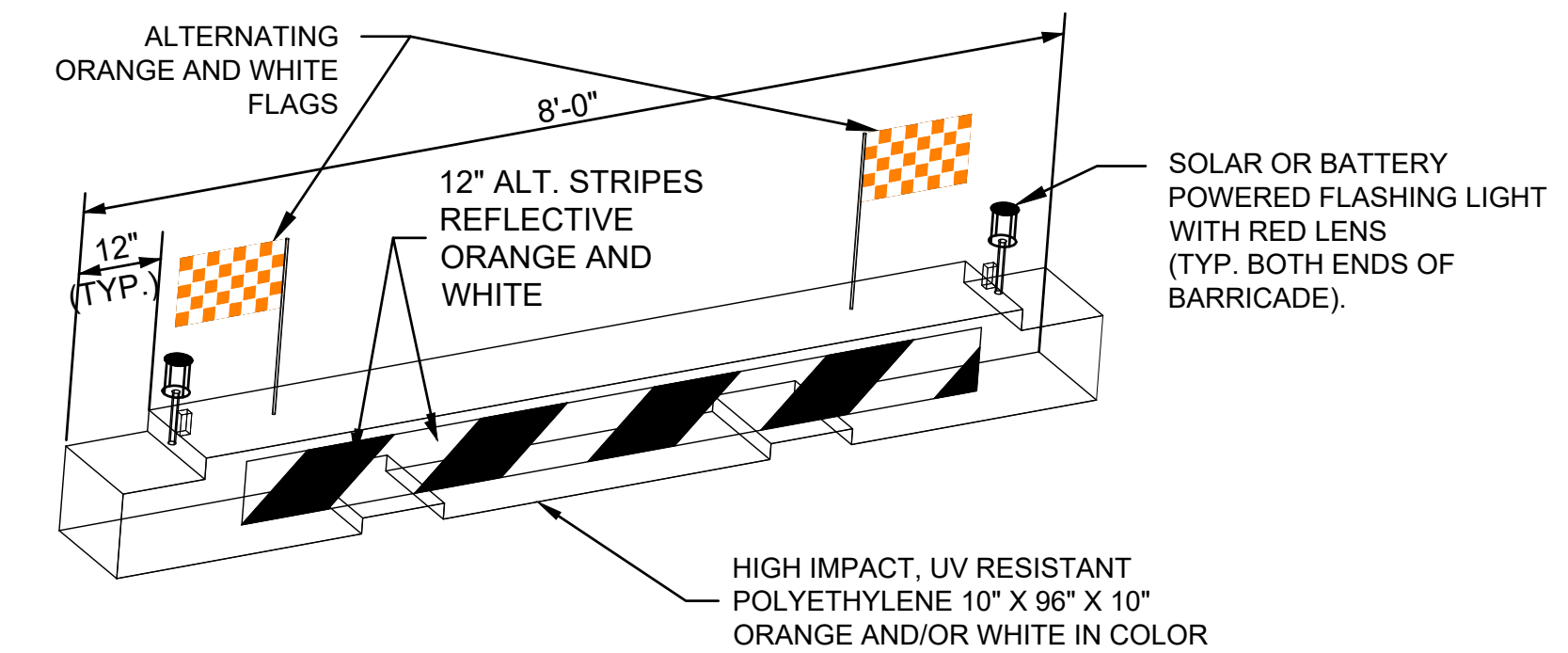
- ALL CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE ILLINOIS SUPPLEMENT (LATEST EDITION) AND THE FAA ADVISORY CIRCULARS (LATEST EDITION) UNLESS NOTED OTHERWISE. THE FAA OR MORE STRINGENT SPECIFICATIONS SHALL GOVERN.
- BARRICADES SHALL BE INTERLOCKED END TO END OVER THE LENGTH OF THE PAVEMENT WHERE PROTECTING OPEN RUNWAYS, AND SPACED END TO END A MAXIMUM OF 4 FEET IN OTHER ALL OTHER AREAS. BARRICADES ARE TO BE SET BACK FROM THE ACTIVE RUNWAY OR TAXIWAY CENTERLINE THE DISTANCE AS SHOWN ON THE PLANS.
- CONSTRUCTION RED WARNING LIGHT: THESE ARE PORTABLE, LENS DIRECTED, ENCLOSED LIGHTS. THE COLOR OF THE LIGHT EMITTED SHALL BE RED. THEY MAY BE USED IN EITHER A STEADY BURN (TYPE C) OR LOW INTENSITY FLASHING MODE (TYPE A) UNLESS NOTED OTHERWISE.
- THE LIGHTING SHALL BE MAINTAINED IN OPERATION DURING THE HOURS OF DARKNESS BETWEEN 1/2 HOUR AFTER SUNSET AND 1/2 HOUR BEFORE SUNRISE AND WHEN CONDITIONS EXIST WHICH TEND TO OBSCURE VISION.
- BARRICADES SHALL BE SECURED TO THE GROUND BY APPROVED METHODS TO PREVENT MOVEMENT BY PROP WASH, JET BLAST OR OTHER WIND CURRENTS.
- THE ONLY COLOR COMBINATION ON BARRICADES IS ORANGE AND WHITE. THE ORANGE STRIPES SHALL BE ENCAPSULATED LENS REFLECTIVE SHEETING. THE WHITE STRIPES SHALL BE EITHER ENCAPSULATED OR ENCLOSED LENS REFLECTIVE SHEETING AND MUST BE IN ACCEPTABLE CONDITION.
- COST FOR PROVIDING, PLACING, MAINTAINING, RELOCATING AND REMOVING BARRICADES SHALL BE INCLUDED AS AN INCIDENTAL COST TO THE CONTRACT, UNLESS OTHERWISE NOTED.



**TEMPORARY CLOSURE CROSS DETAIL**

NOT TO SCALE

- TEMPORARY "CLOSED RUNWAY" AND "CLOSED TAXIWAY" MARKINGS SHALL BE "AVIATION YELLOW"
- TEMPORARY "CLOSED RUNWAY" AND "CLOSED TAXIWAY" MARKINGS SHALL BE CONSTRUCTED OF PLYWOOD, DOUBLE-LAYERED SNOW FENCE OR APPROVED FABRIC AND SHALL BE SECURED TO PAVEMENT BY SANDBAGS OR OTHER APPROVED METHOD.
- TEMPORARY "CLOSED RUNWAY" MARKINGS SHALL BE PLACED OVER THE RUNWAY DESIGNATION NUMBERS UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
- COST FOR PROVIDING, PLACING, MAINTAINING, RELOCATING AND REMOVING "CLOSED RUNWAY" AND "CLOSED TAXIWAY" MARKINGS SHALL BE INCLUDED AS AN INCIDENTAL COST TO THE CONTRACT, UNLESS OTHERWISE NOTED.



**LOW-PROFILE BARRICADE DETAIL**

NOT TO SCALE

DETAIL ABOVE REPRESENTS ONE OPTION FOR LOW-PROFILE BARRICADES. OTHER OPTIONS MAY BE UTILIZED AS LONG AS THEY MEET THE REQUIREMENTS OF THE PROJECT, INCLUDING BARRICADE NOTE 1.



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**RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS**

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SBGP No: 3-17-SBGP-TBD  
Contract No.: JA041

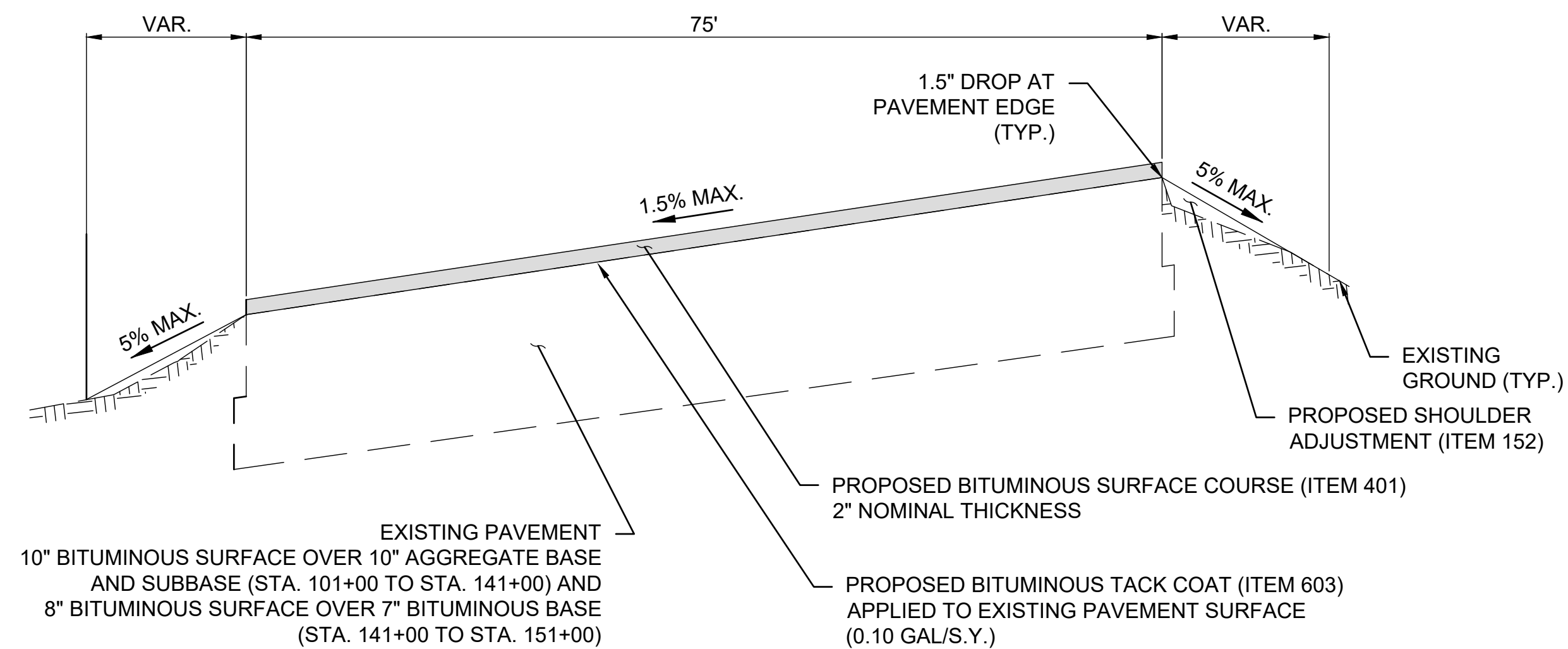
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ISSUE: 05/13/22  
PROJECT NO: 21A0103  
CAD FILE: C-104-CSPP.DWG  
DESIGN BY: JMO 05/04/2022  
DRAWN BY: HLE 05/04/2022  
REVIEWED BY: JMO 6/10/22

SHEET TITLE

**SAFETY PLAN NOTES AND DETAILS**

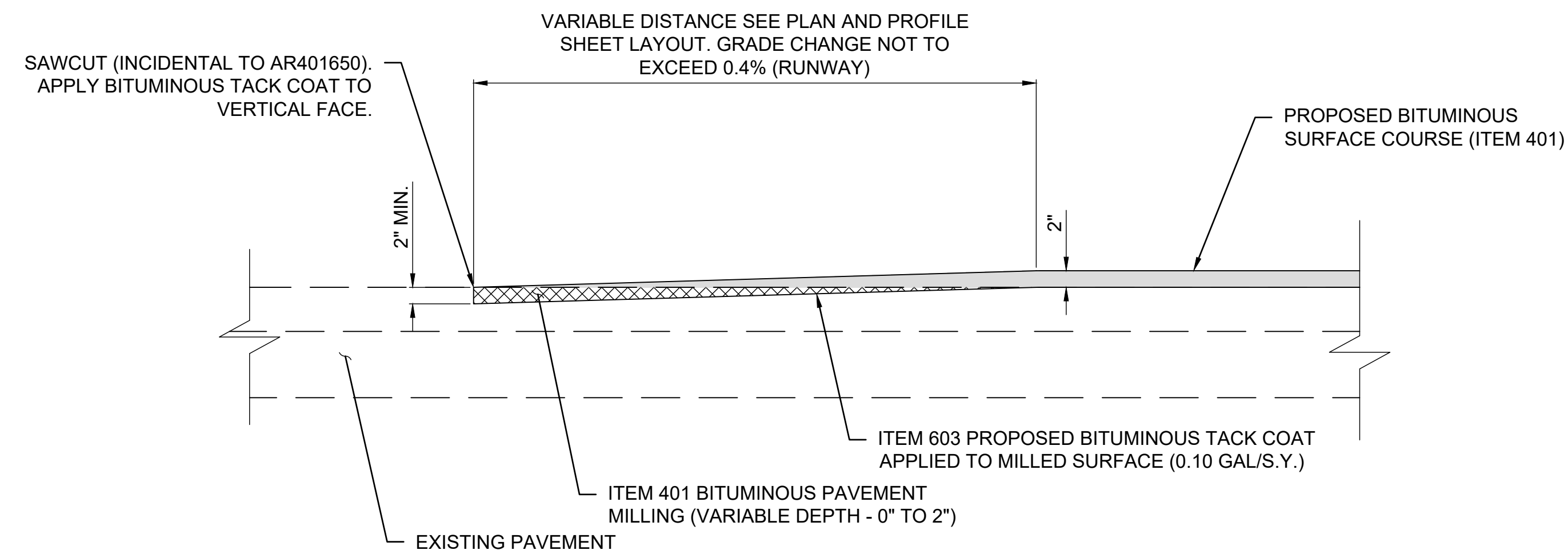
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**RUNWAY 13-31 TYPICAL SECTION**

**GENERAL NOTES**

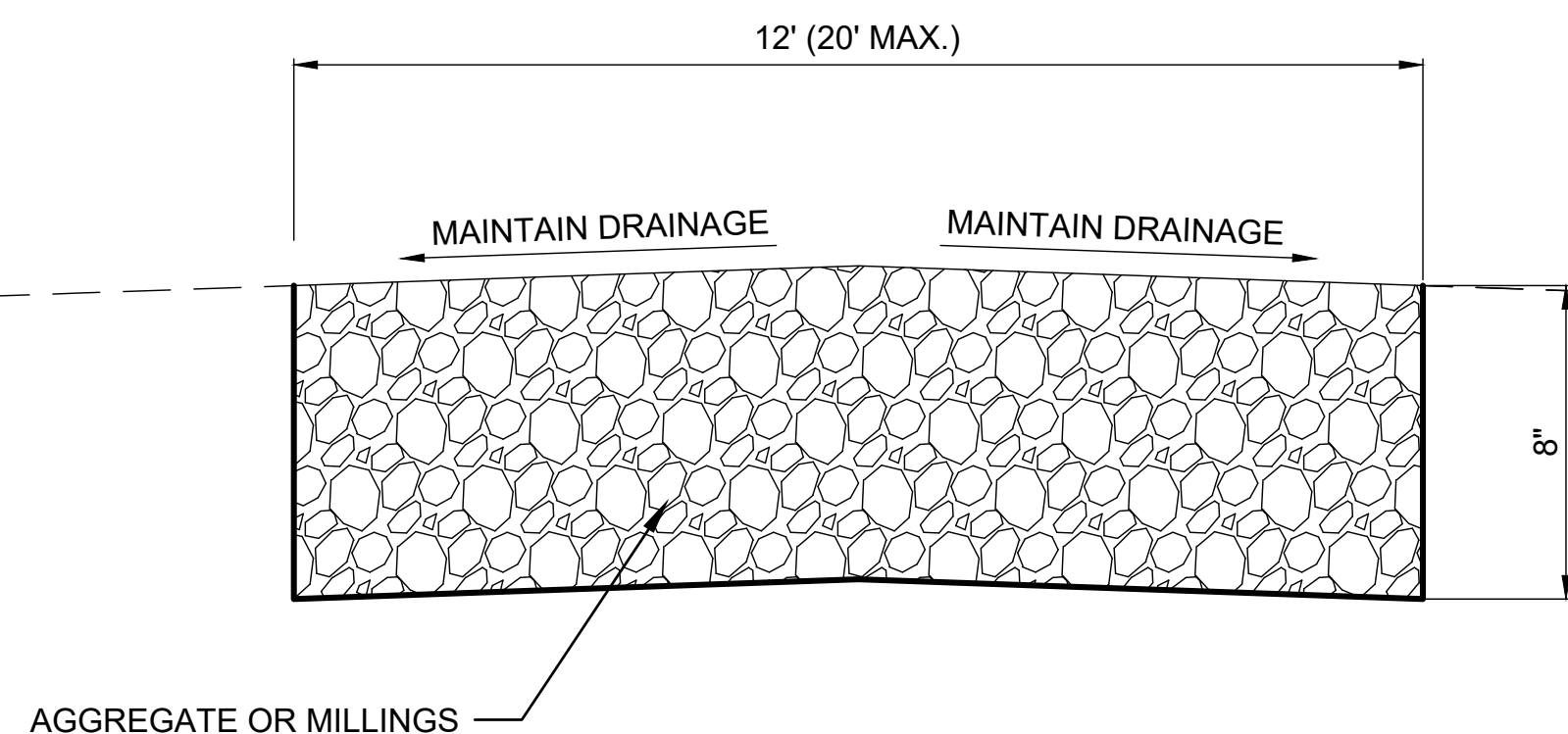
1. OPEN PAVING JOINTS AND/OR CRACKS IN THE EXISTING SURFACE OF THE PAVEMENT TO BE RESURFACED SHALL BE DESIGNATED BY THE PROJECT ENGINEER IN THE FIELD TO BE REPAIRED PRIOR TO PLACING THE BITUMINOUS SURFACE COURSE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR CRACK REPAIR.
2. THE QUANTITIES FOR CRACK REPAIR HAVE BEEN ESTIMATED BY MEASURING CRACK REPAIR IN SELECTED REPRESENTATIVE LOCATIONS ON THE PAVEMENT. THESE QUANTITIES MAY BE INCREASED OR REDUCED AT THE TIME OF CONSTRUCTION BASED UPON THE CRACK WORK THAT IS MARKED OUT BY THE RESIDENT ENGINEER AFTER FIELD INSPECTION OF THE PAVEMENT CRACKS.
3. ANY TURF WHICH HAS ENCROACHED UPON THE PAVEMENT EDGE SHALL BE BLADED BACK PRIOR TO THE PROPOSED BITUMINOUS SURFACE COURSE APPLICATION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
4. ALL AREAS DISTURBED UNDER THIS CONSTRUCTION PROJECT WITHIN THE GRADING LIMITS FOR THE PROPOSED EARTH SHOULDERS ADJACENT TO THE PAVEMENT SHALL BE LIMED, FERTILIZED, SEEDED, AND MULCHED. THESE AREAS SHALL CONSTITUTE THE AREA DESIGNATED FOR PAYMENT.
5. ALL OTHER AREAS DISTURBED BY THE CONTRACTOR INCLUDING THE CONTRACTOR'S PARKING AREA, HAUL ROAD, ETC. SHALL BE RE-GRADED, RE-SEEDED AND/OR RESTORED TO THEIR ORIGINAL CONDITION. THIS RESTORATION SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT HIS OWN EXPENSE UPON COMPLETION OF THE IMPROVEMENTS.



**BITUMINOUS BUTT JOINT DETAIL**

**BUTT JOINT CONSTRUCTION NOTES**

1. ALL BITUMINOUS PAVEMENT MILLING AREAS FOR PROPOSED BUTT JOINTS WILL BE LOCATED AND MARKED BY THE RESIDENT ENGINEER/TECHNICIAN.
2. THE PAVEMENT SURFACE WILL THEN BE MILLED TO A DEPTH OF 2 INCHES AT THE BUTT END AND WILL TAPER TO A 2 INCH DEPTH WHEN MEASURED FROM THE PROPOSED PAVEMENT SURFACE AT THE OPPOSITE END. THE PLANER MUST BE CAPABLE OF MILLING THE SURFACE TO THE DESIRED ELEVATIONS AND GRADES.
3. ANY ADJACENT PAVEMENT DAMAGED BY THE MILLING OPERATIONS WILL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
4. BUTT JOINTS WILL BE PAVED WITH THE RESPECTIVE LIFTS OF SURFACE COURSE ON THE RUNWAY.
5. THE MILLING, TACK COAT AND BITUMINOUS PAVING SHALL BE PAID FOR UNDER THEIR RESPECTIVE PAY ITEMS. THE SAW-CUT AND OTHER ASSOCIATED WORK SHALL BE INCIDENTAL.



**HAUL ROUTE - TYPICAL SECTION**

NOT TO SCALE

**NOTES:**

1. UPON COMPLETION OF THE PROJECT; THE AGGREGATE MATERIAL SHALL REMAIN IN PLACE AND RESHAPED TO A UNIFORM CROSS SECTION TO REMOVE RUTTING AND PROVIDE POSITIVE DRAINAGE.
2. RESIDENT ENGINEER/TECHNICIAN WILL CONFIRM HAUL ROUTE LIMITS/LOCATION PRIOR TO INSTALLATION. CONTRACTOR MAY INCREASE WIDTH/DEPTH OF HAUL ROUTE AT THEIR EXPENSE IF NECESSARY.
3. ALL WORK AND MATERIALS INVOLVING HAUL ROUTE SHALL BE PAID FOR UNDER ITEM AR150540 "HAUL ROUTE" - PER LUMP SUM.

RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

IDA No: IJX-4937  
SBGP No: 3-17-SBGP-TBD  
Contract No.: JA041

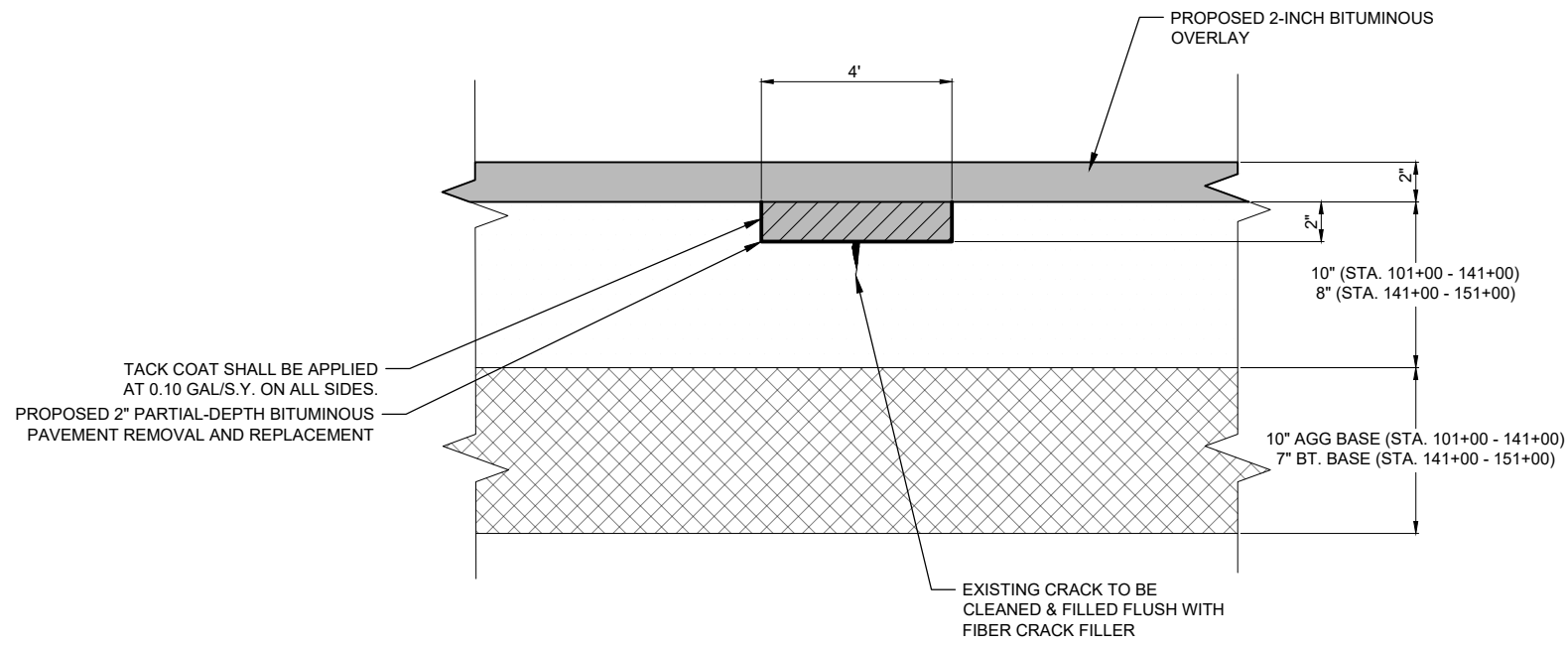
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ISSUE: 05/13/22  
PROJECT NO: 21A0103  
CAD FILE: C-301-TYP.DWG  
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DRAWN BY: HLE 05/07/2022  
REVIEWED BY: JMO 6/10/22

SHEET TITLE

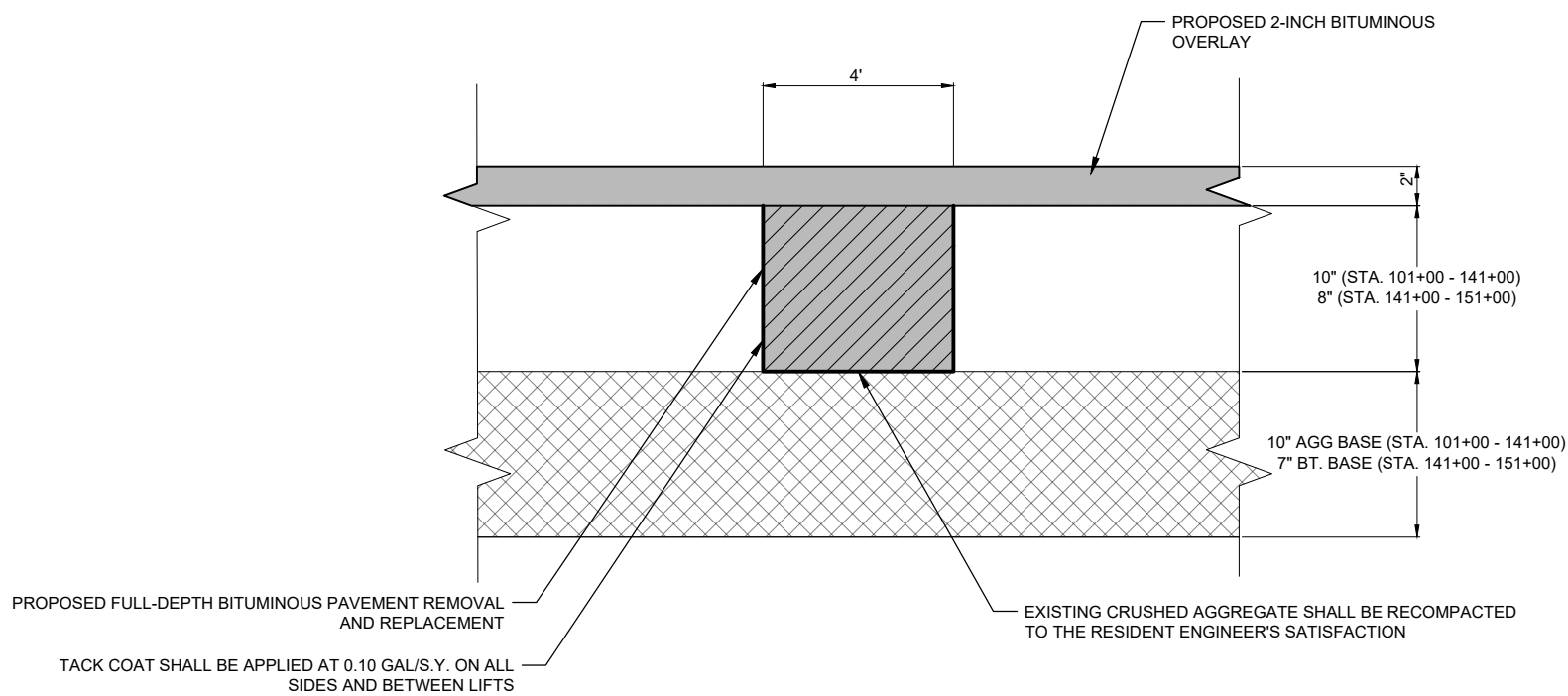
TYPICAL SECTIONS AND PAVING DETAILS





**AR401915 REMOVE & REPLACE BITUMINOUS PAVEMENT - TYPE A (PARTIAL DEPTH)**

NOT TO SCALE



**AR401916 REMOVE & REPLACE BITUMINOUS PAVEMENT - TYPE B (FULL DEPTH)**

NOT TO SCALE

EXISTING	PROPOSED	LEGEND
		BIT. PAVEMENT
		BIT. PAVEMENT REMOVAL
		BITUMINOUS PAVEMENT
		CRUSHED AGGREGATE

RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

IDA No: IJX-4937  
SBGP No: 3-17-SBGP-TBD  
Contract No.: JA041

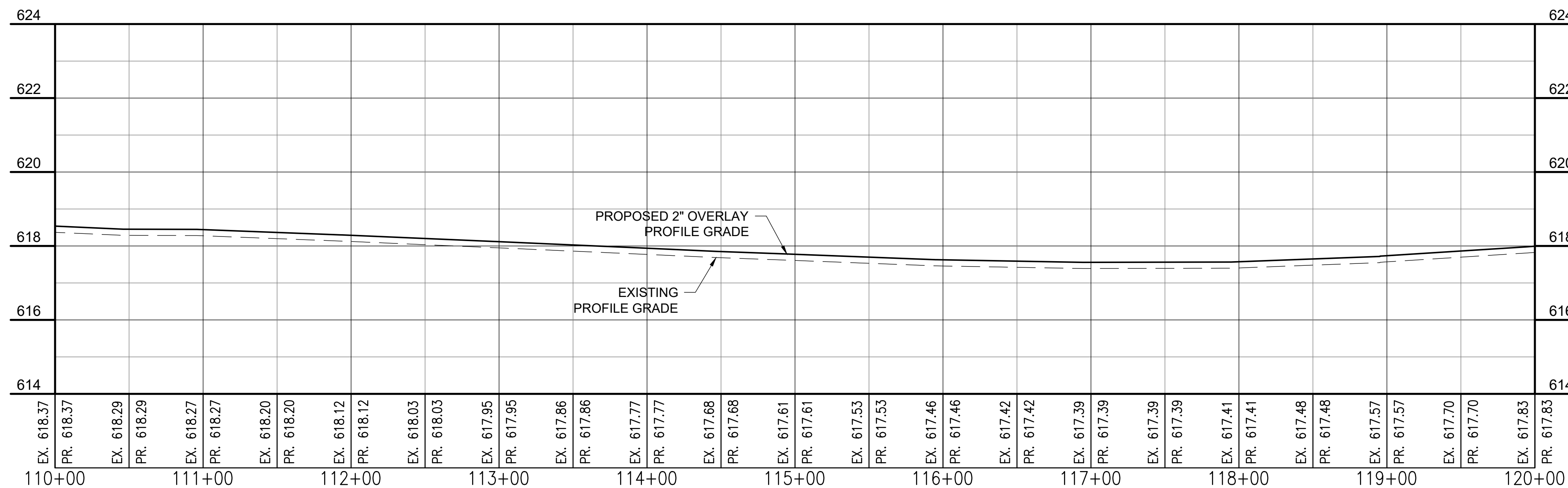
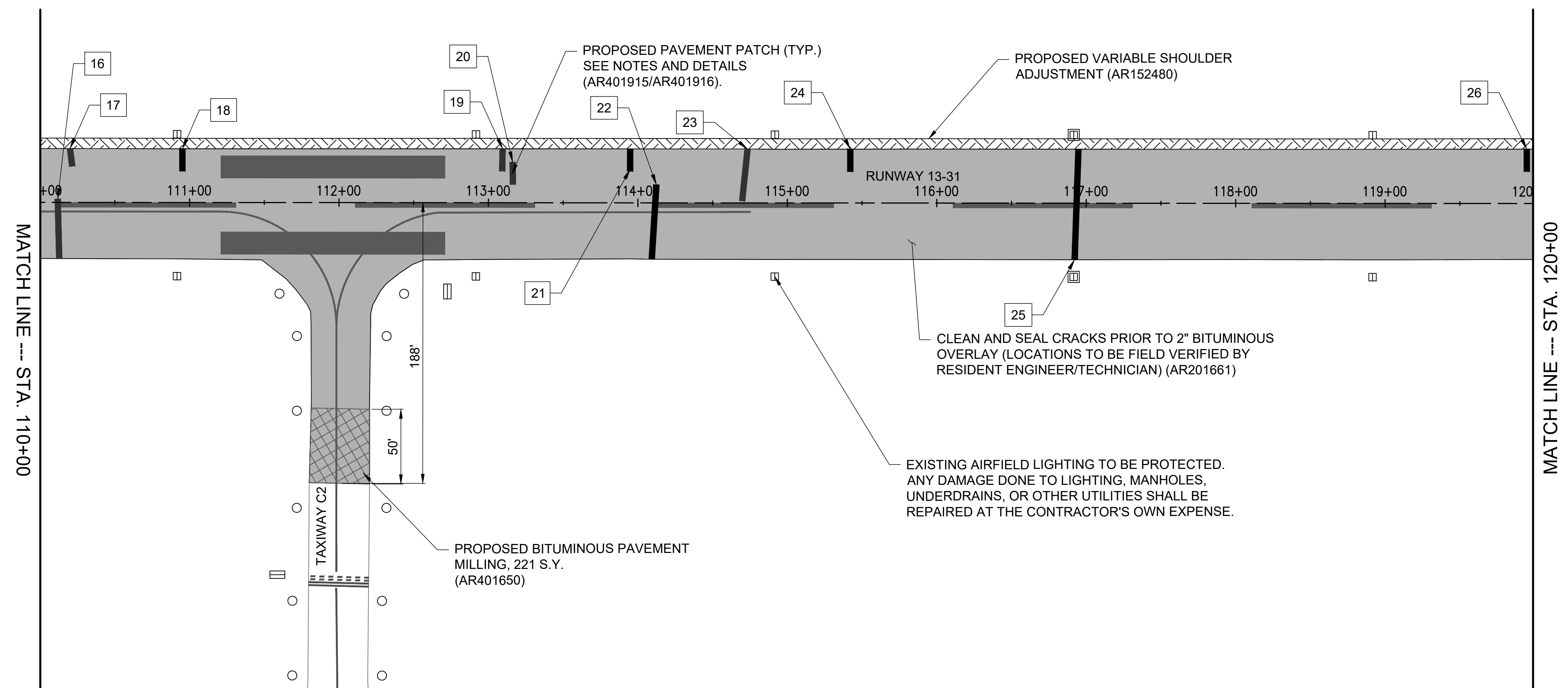
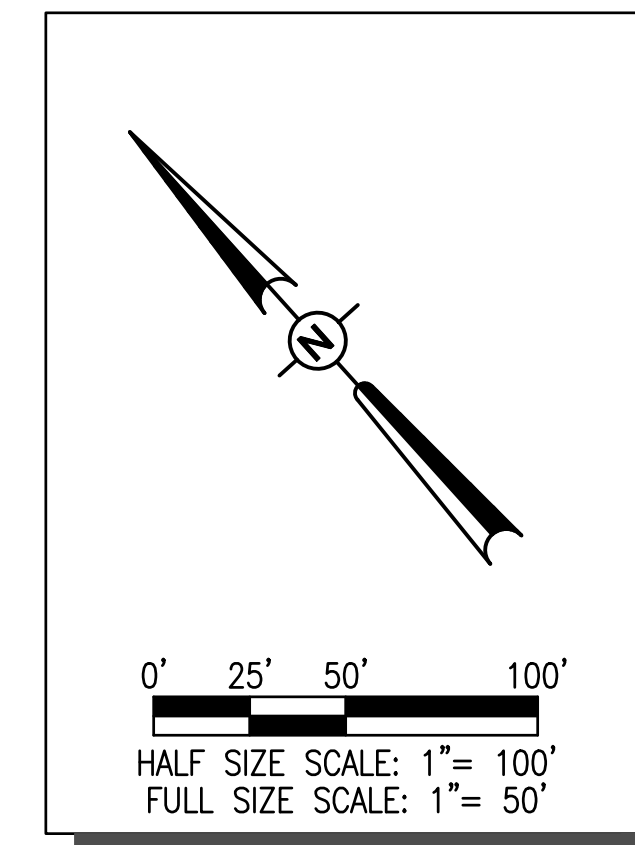
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SHEET TITLE

PAVEMENT PATCHING DETAILS





RESURFACE RUNWAY  
13-31 AND REMARK  
RUNWAY 13-31, RUNWAY  
4-22, AND ASSOCIATED  
TAXIWAYS

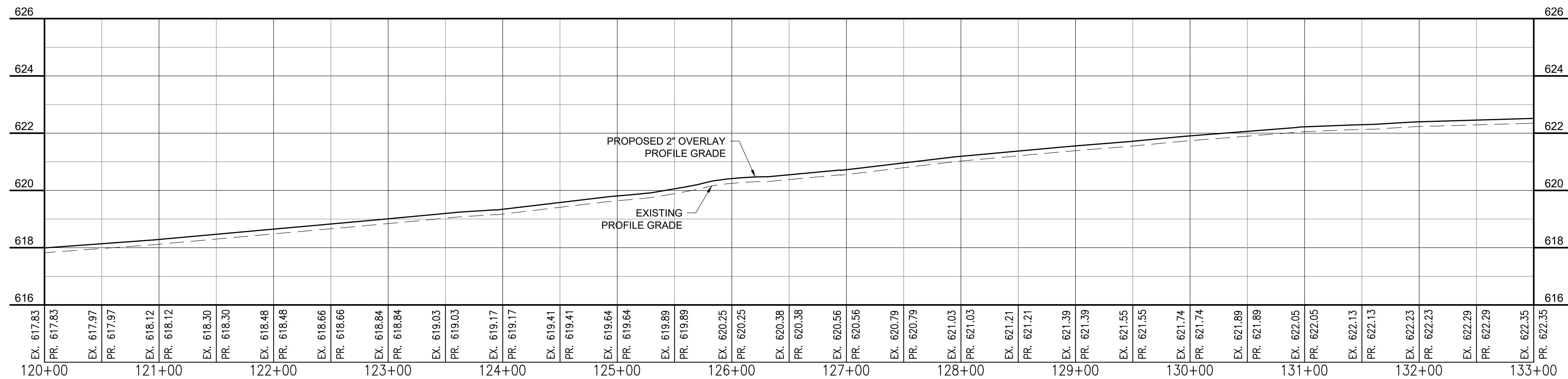
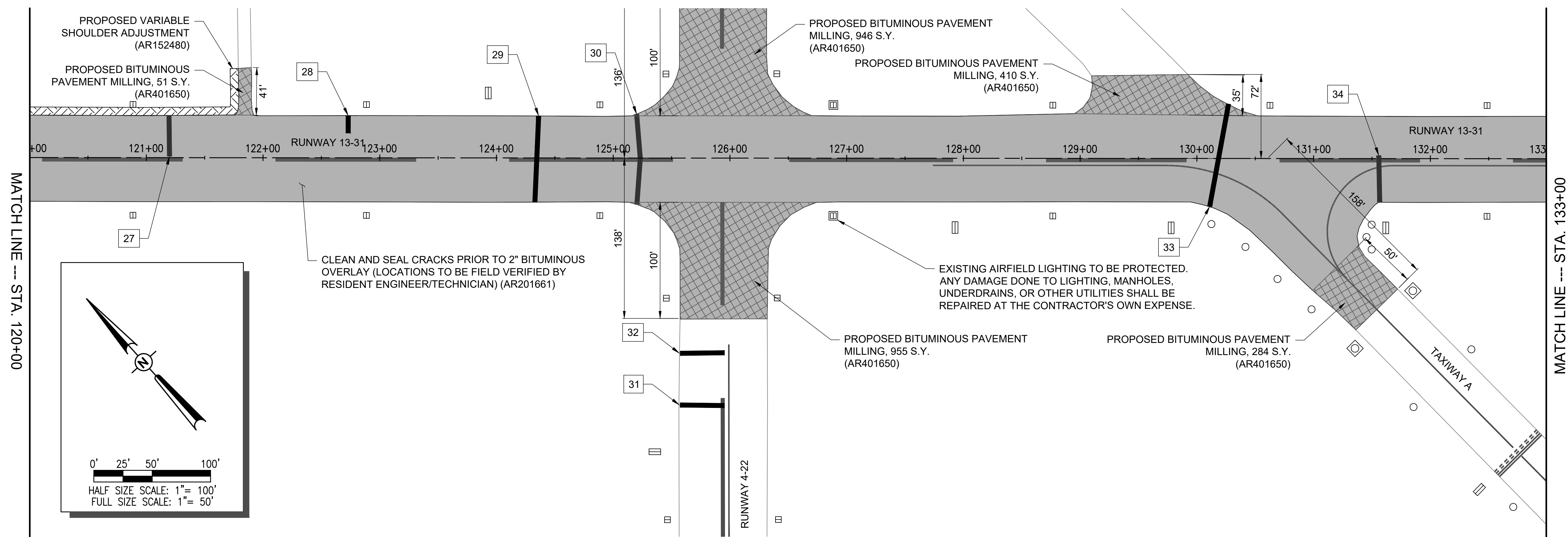
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Contract No.: JA041

NO.	DATE	DESCRIPTION		
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ISSUE: 05/13/22  
PROJECT NO: 21A0103  
CAD FILE: C-701-PNP.DWG  
DESIGN BY: JMO 05/06/2022  
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REVIEWED BY: JMO 6/10/22

SHEET TITLE

PLAN AND PROFILE -  
STA. 110+00 - 120+00



RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

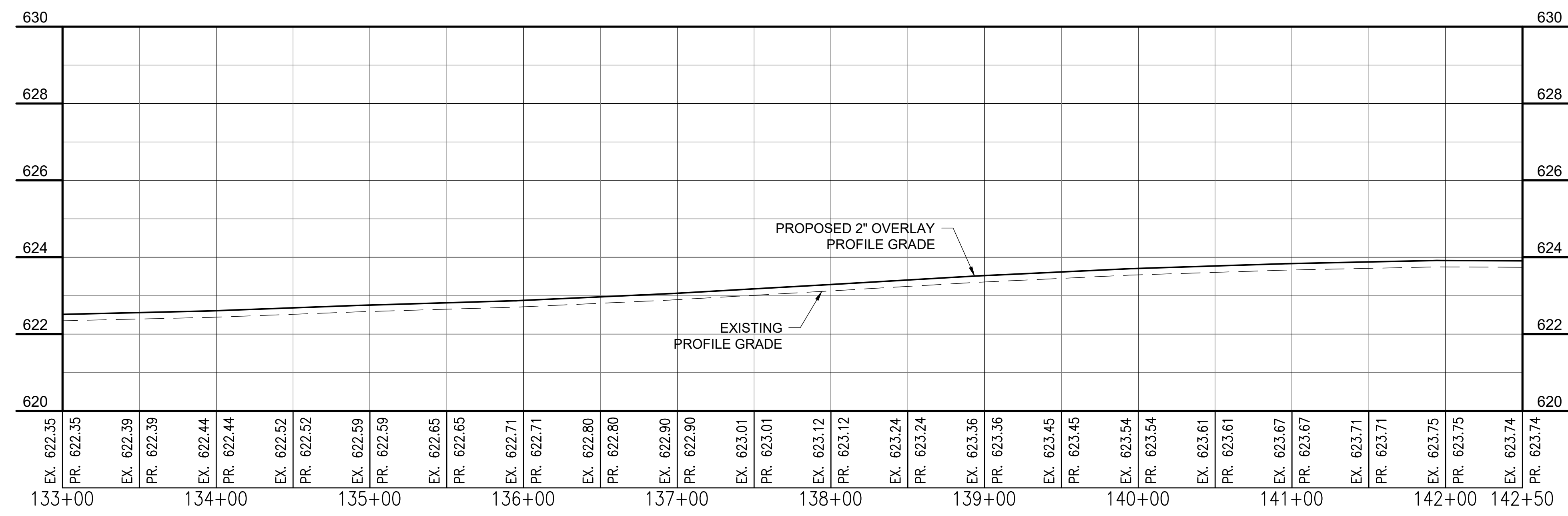
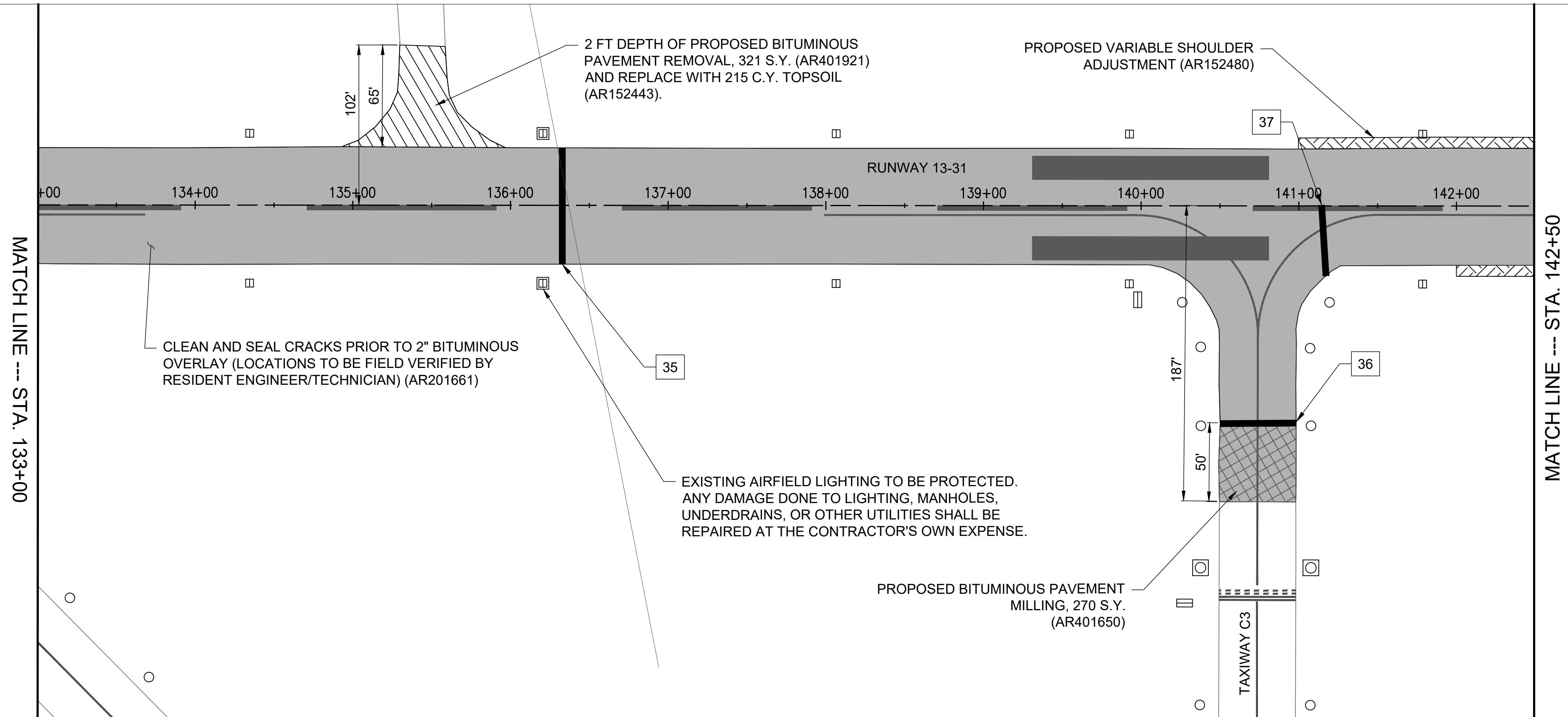
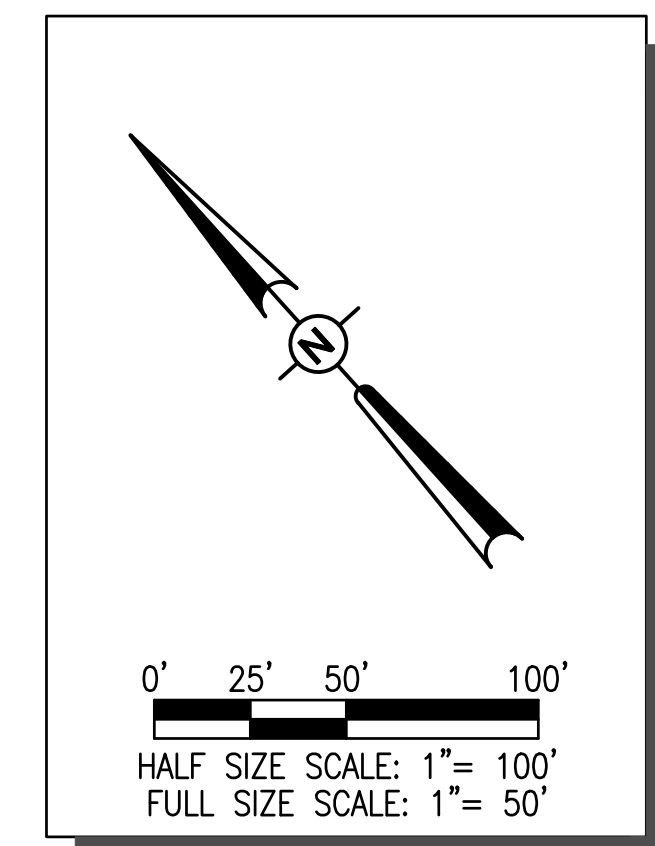
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Contract No.: JA041

NO.	DATE	DESCRIPTION		
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ISSUE: 05/13/22  
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CAD FILE: C-701-PNP.DWG  
DESIGN BY: JMO 05/06/2022  
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REVIEWED BY: JMO 6/10/22

SHEET TITLE

PLAN AND PROFILE - STA. 120+00 - 133+00



RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

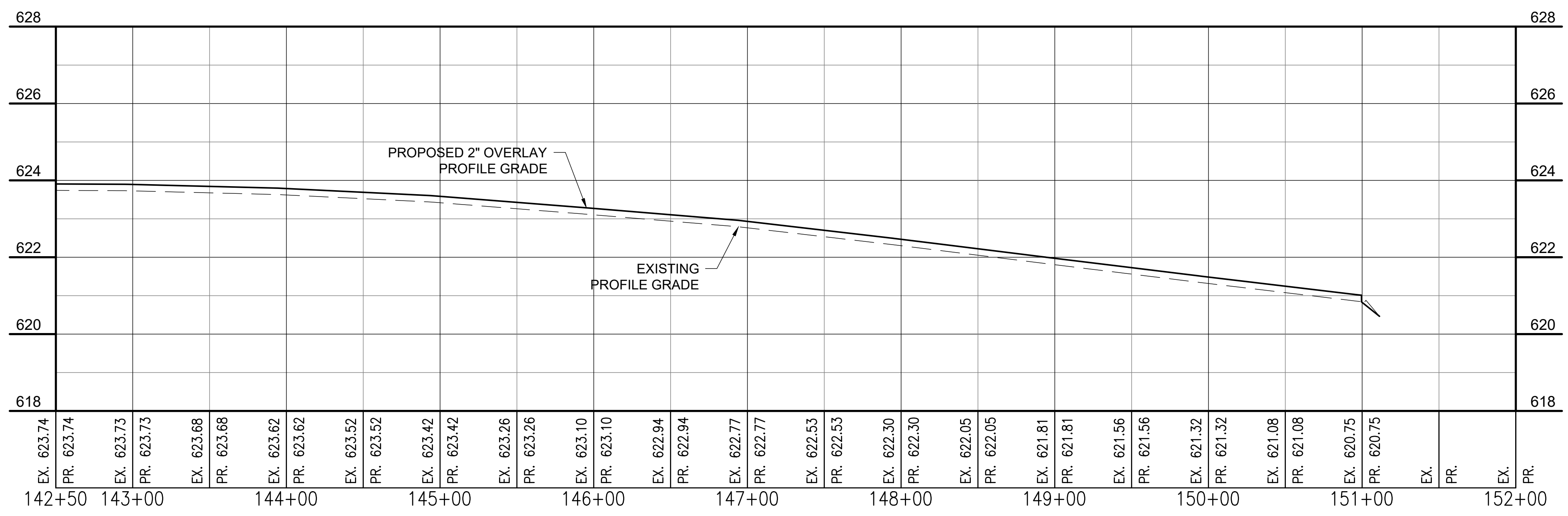
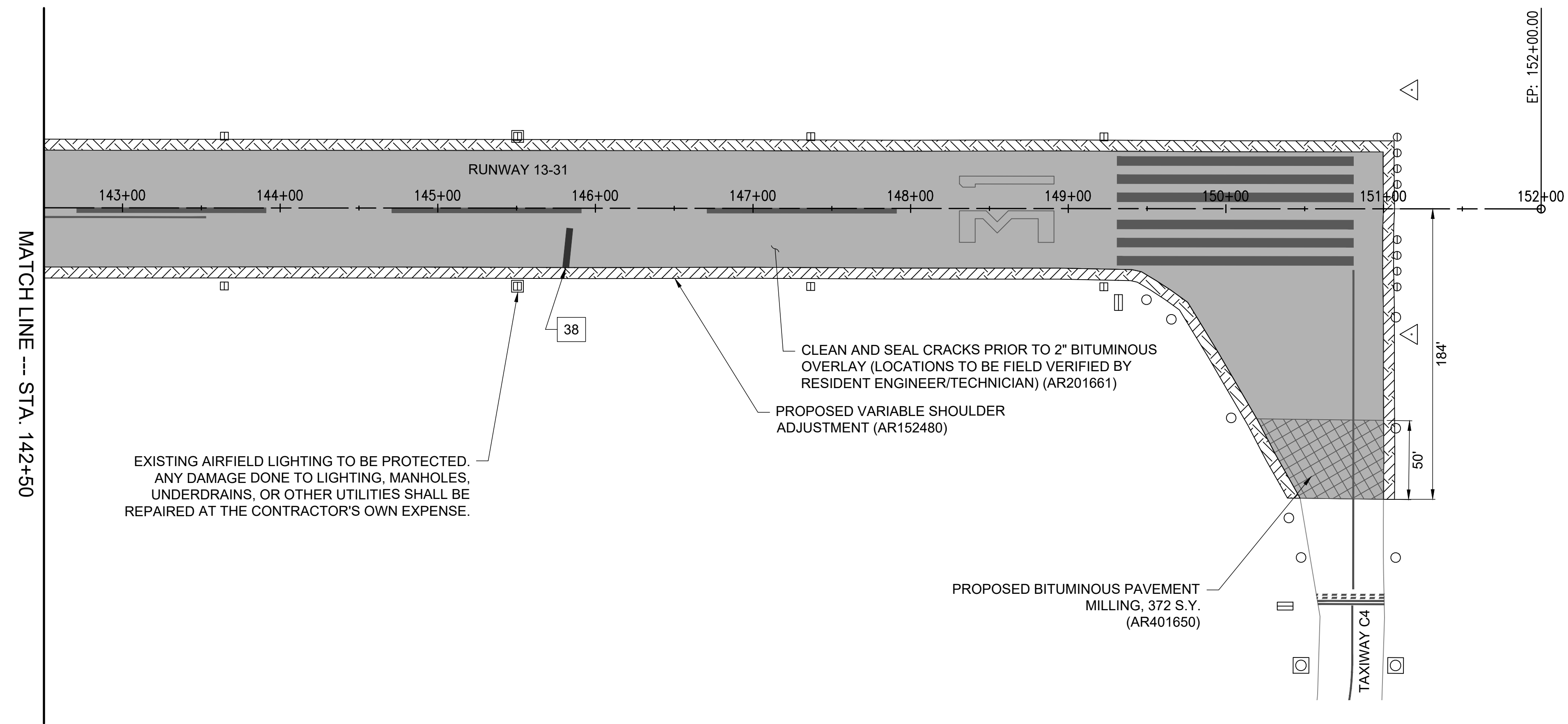
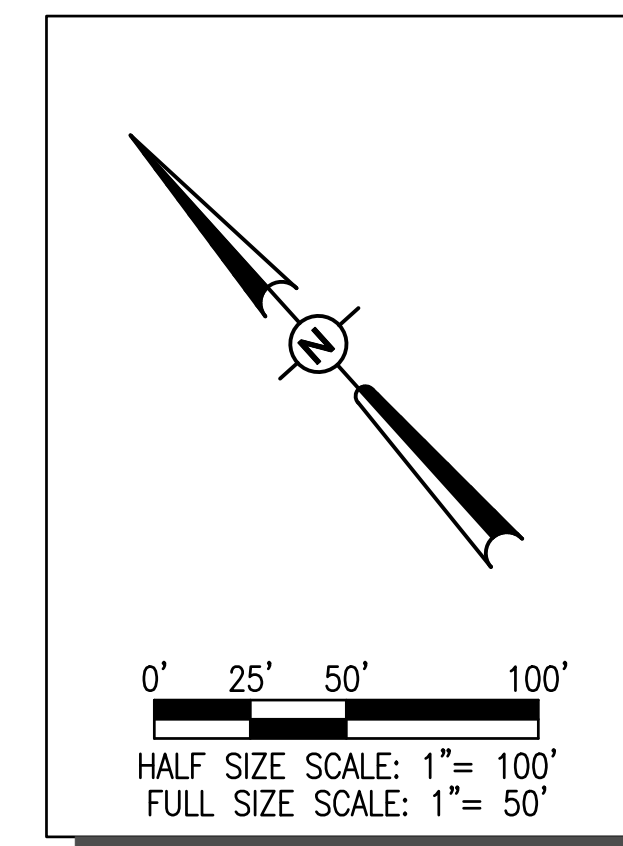
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Contract No.: JA041

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SHEET TITLE

PLAN AND PROFILE - STA. 133+00 - 142+50



**RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS**

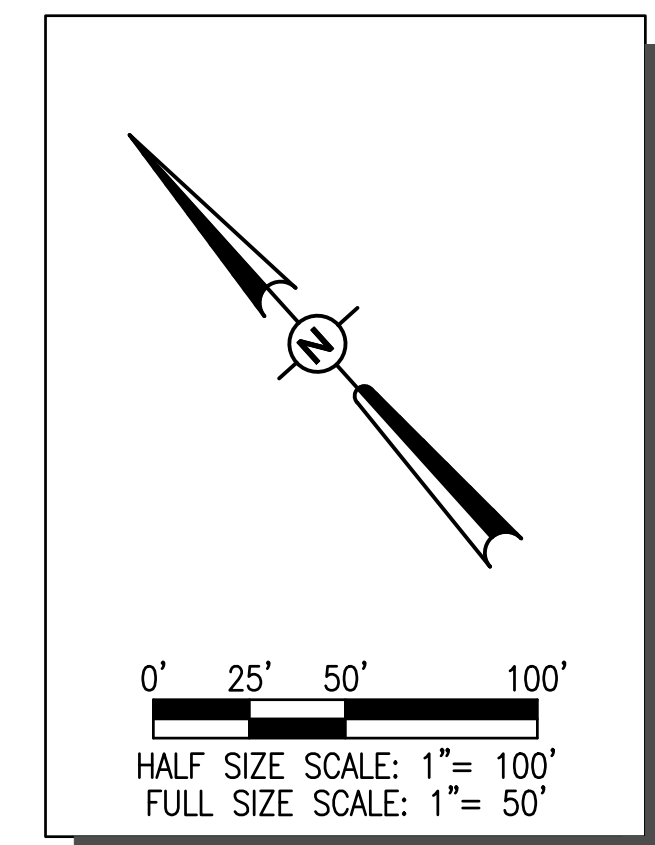
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Contract No.: JA041

NO.	DATE	DESCRIPTION		
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PROJECT NO: 21A0103  
CAD FILE: C-701-PNP.DWG  
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REVIEWED BY: JMO 6/10/22

SHEET TITLE

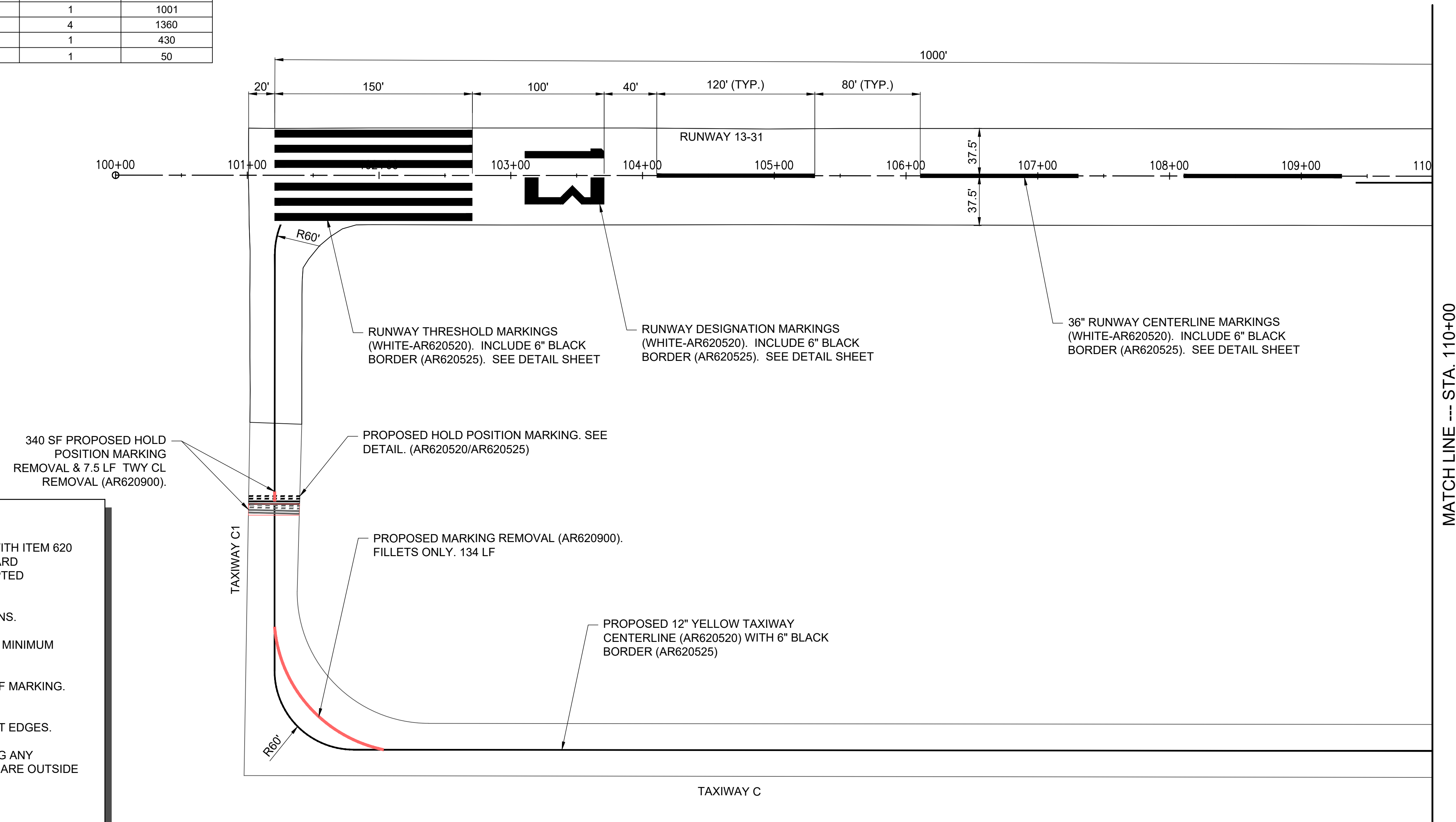
**PLAN AND PROFILE - STA. 142+50 - 152+00**



MARKING SCHEDULE			
AR620520 - PAVEMENT MARKING - WATERBORNE (WHITE)			
DESCRIPTION	UNIT AREA (S.F.)	NO. REQUIRED	TOTAL AREA (S.F.)
THRESHOLD STRIPE	862.5	24	20700
RUNWAY DESIGNATION NUMERAL 13	952	1	952
RUNWAY DESIGNATION NUMERAL 31	952	1	952
RUNWAY DESIGNATION NUMERAL 4	602	1	602
RUNWAY DESIGNATION NUMERAL 22	1304	1	1304
AIMING POINT	2250	8	18000
RUNWAY 4-22 CENTERLINE STRIPES - 120 FT	360	15	5400
RUNWAY 4-22 CENTERLINE STRIPES - 96 FT	288	2	576
RUNWAY 4-22 CENTERLINE STRIPES - 76 FT	228	1	228
RUNWAY 13-31 CENTERLINE STRIPES - 120 FT	360	21	7560
RUNWAY 13-31 CENTERLINE STRIPES - 86 FT	258	2	516
AR620520 - PAVEMENT MARKING - WATERBORNE (YELLOW)			
DESCRIPTION	UNIT AREA (S.F.)	NO. REQUIRED	TOTAL AREA (S.F.)
TAXIWAY CENTERLINE STRIPES	9159	1	9159
HOLDING POSITION - TWY C (N & S), C1, AND C2 (40' WIDTH)	122	4	488
HOLDING POSITION - TWY A AND C3 (50' WIDTH)	152	2	304
HOLDING POSITION - TWY C4 (ON FILLET)	129	1	129

MARKING SCHEDULE			
AR620525 PAVEMENT MARKING - BLACK BORDER			
DESCRIPTION	UNIT AREA (S.F.)	NO. REQUIRED	TOTAL AREA (S.F.)
THRESHOLD STRIPE	156.75	24	3762
RUNWAY DESIGNATION NUMERAL 13	171	1	171
RUNWAY DESIGNATION NUMERAL 31	171	1	171
RUNWAY DESIGNATION NUMERAL 4	107	1	107
RUNWAY DESIGNATION NUMERAL 22	214	1	214
AIMING POINT	166	8	1328
RUNWAY CENTERLINE STRIPES - 120 FT	124	36	4464
RUNWAY CENTERLINE STRIPES - 96 FT	100	2	200
RUNWAY CENTERLINE STRIPES - 86 FT	90	2	180
RUNWAY CENTERLINE STRIPES - 76 FT	80	1	80
TAXIWAY CENTERLINE STRIPES	9159	1	9159
HOLDING POSITION - TWY C (N & S), C1, AND C2 (40' WIDTH)	198	4	792
HOLDING POSITION - TWY A AND C3 (50' WIDTH)	248	2	496
HOLDING POSITION - TWY C4 (ON FILLET)	231	1	231

MARKING SCHEDULE			
AR620900 PAVEMENT MARKING REMOVAL			
DESCRIPTION	UNIT AREA (S.F.)	NO. REQUIRED	TOTAL AREA (S.F.)
RUNWAY 4-22 CENTERLINE - (40 FT X 8 FT)	320	1	320
TAXIWAY CENTERLINE STRIPES (1,001 FT X 1 FT)	1001	1	1001
HOLDING POSITION - TWY C (N & S), C1, AND C2	340	4	1360
HOLDING POSITION - TWY A	430	1	430
NOMINAL QUANTITY	50	1	50



- WATERBORNE PAVEMENT MARKING NOTES**
- PAVEMENT MARKINGS WILL BE PLACED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED IN THE ILLINOIS STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED SEPTEMBER 25, 2020 AND REVISED NOVEMBER 12, 2021.
  - PAVEMENT MARKING WILL BE APPLIED IN TWO APPLICATIONS.
  - WATERBORNE BLACK PAINT SHALL BE USED TO OUTLINE A MINIMUM 6-INCH BORDER AROUND ALL MARKINGS.
  - GLASS BEADS SHALL BE APPLIED ON THE SECOND COAT OF MARKING. GLASS BEADS SHALL NOT BE APPLIED TO BLACK PAINT.
  - CUT-OFF SHEETS WILL BE REQUIRED TO ENSURE STRAIGHT EDGES.
  - THE CONTRACTOR WILL BE RESPONSIBLE FOR RE-MARKING ANY MARKINGS DAMAGED BY CONSTRUCTION ACTIVITIES THAT ARE OUTSIDE OF THE PROPOSED WORK LIMITS.
- PAVEMENT MARKING REMOVAL NOTES**
- THE AREAS OF EXISTING MARKING DESIGNATED FOR REMOVAL MAY ONLY BE REMOVED BY GRINDING. WATER, SHOT, OR SAND BLASTING WILL NOT BE ALLOWED.

RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

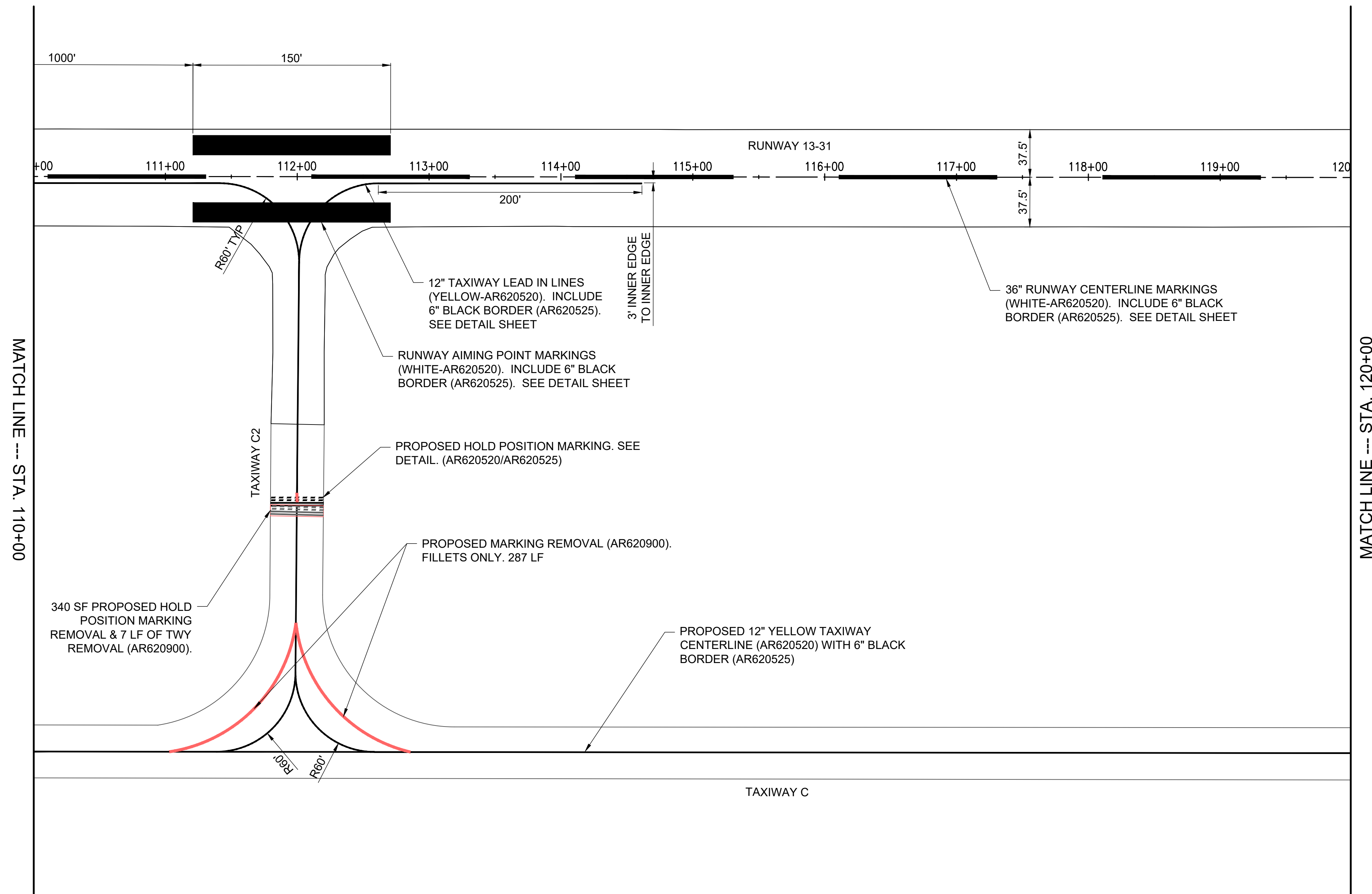
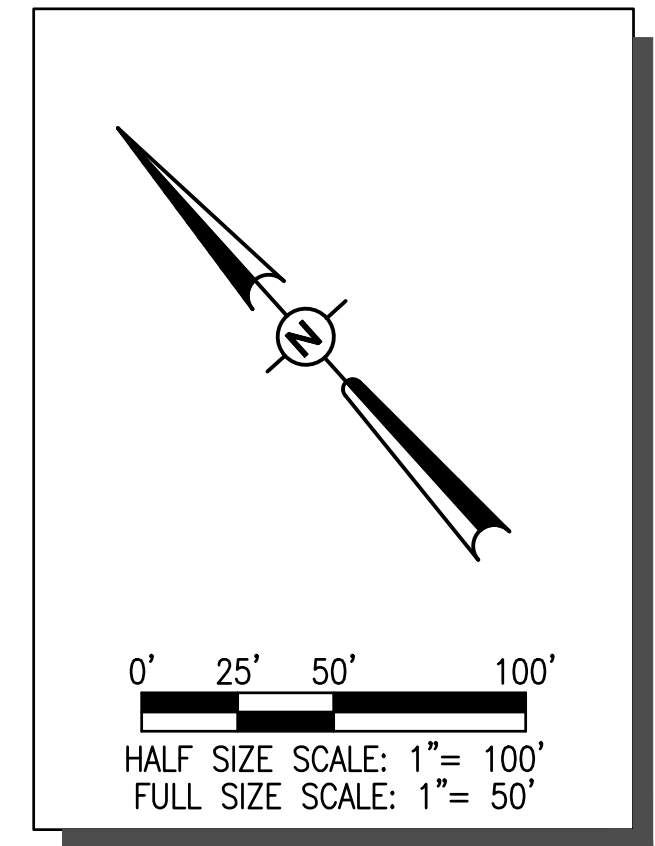
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Contract No.: JA041

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SHEET TITLE

MARKING PLAN - SHEET 1



RESURFACE RUNWAY  
13-31 AND REMARK  
RUNWAY 13-31, RUNWAY  
4-22, AND ASSOCIATED  
TAXIWAYS

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Contract No.: JA041

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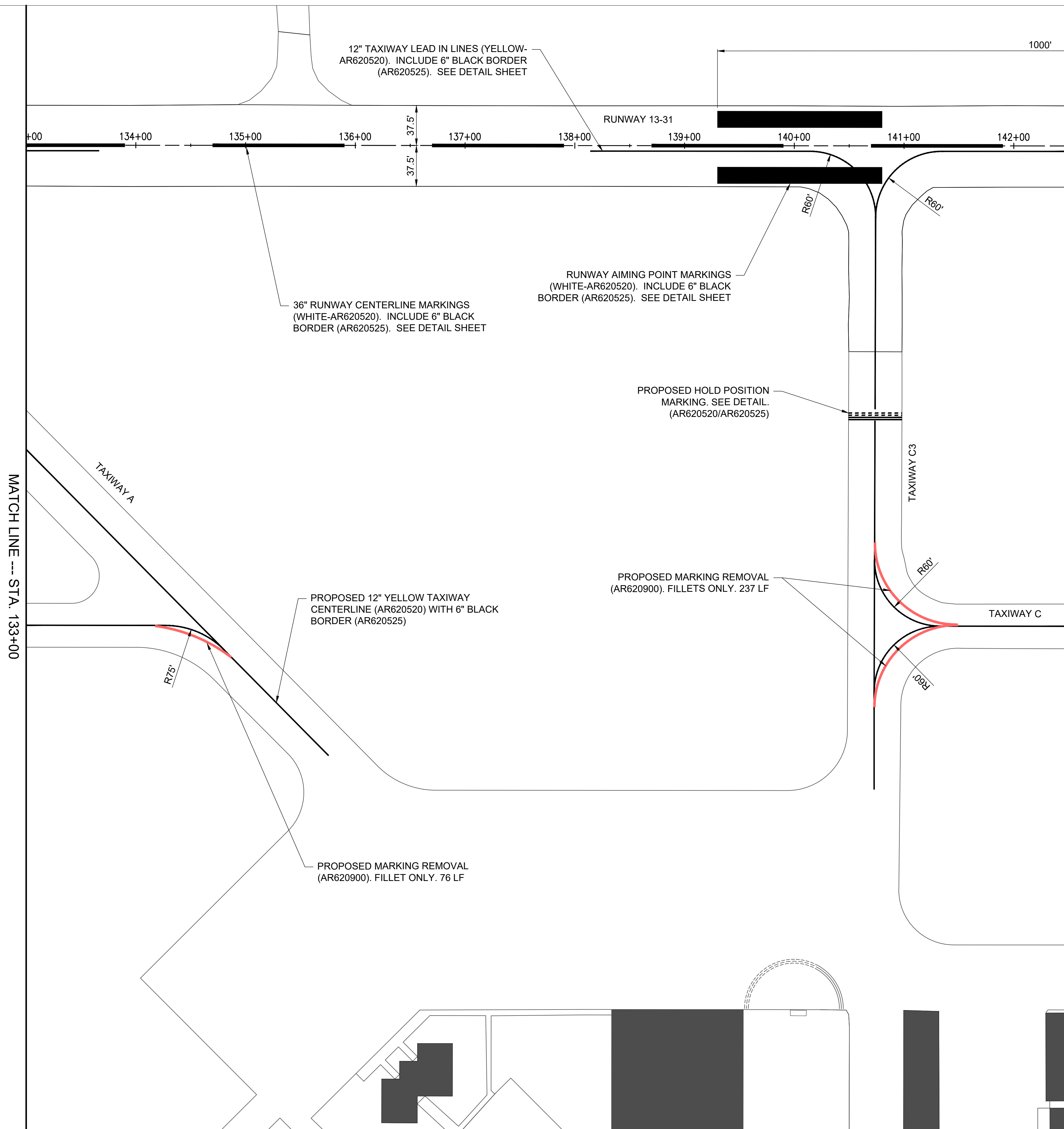
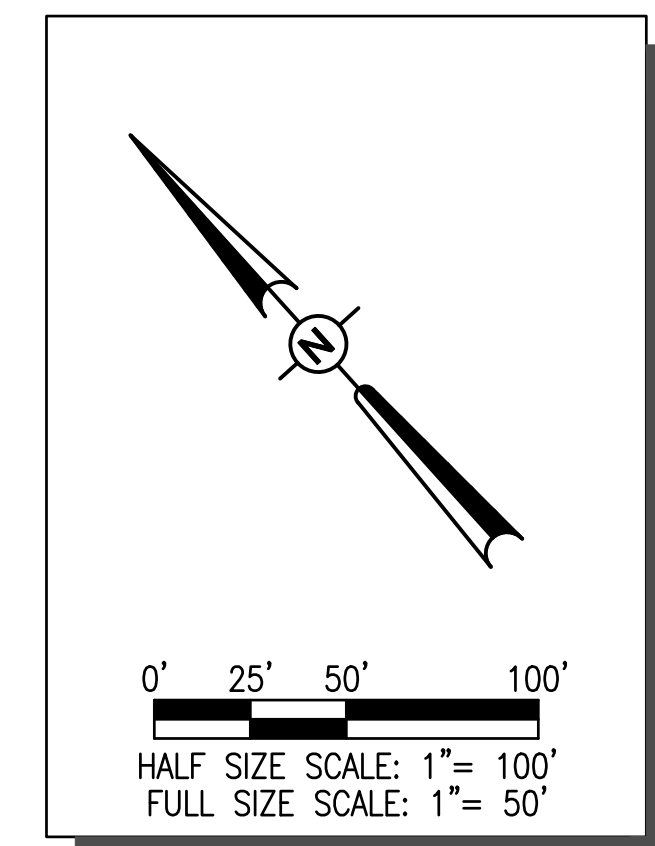
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SHEET TITLE

MARKING PLAN -  
SHEET 2







RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

IDA No: IJX-4937  
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Contract No.: JA041


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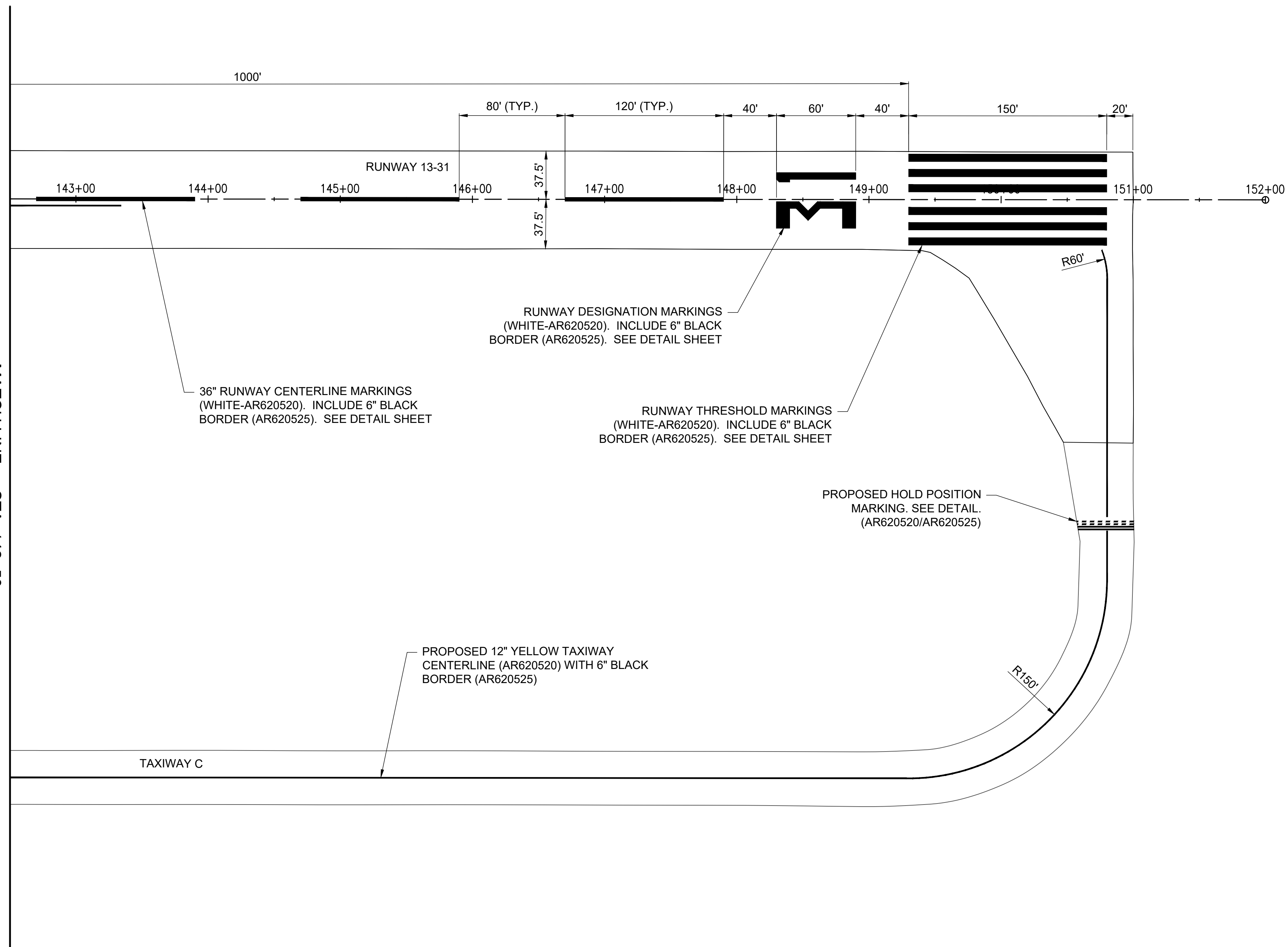
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SHEET TITLE

MARKING PLAN - SHEET 4

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MATCH LINE --- STA. 142+50



36" RUNWAY CENTERLINE MARKINGS  
 (WHITE-AR620520). INCLUDE 6" BLACK  
 BORDER (AR620525). SEE DETAIL SHEET

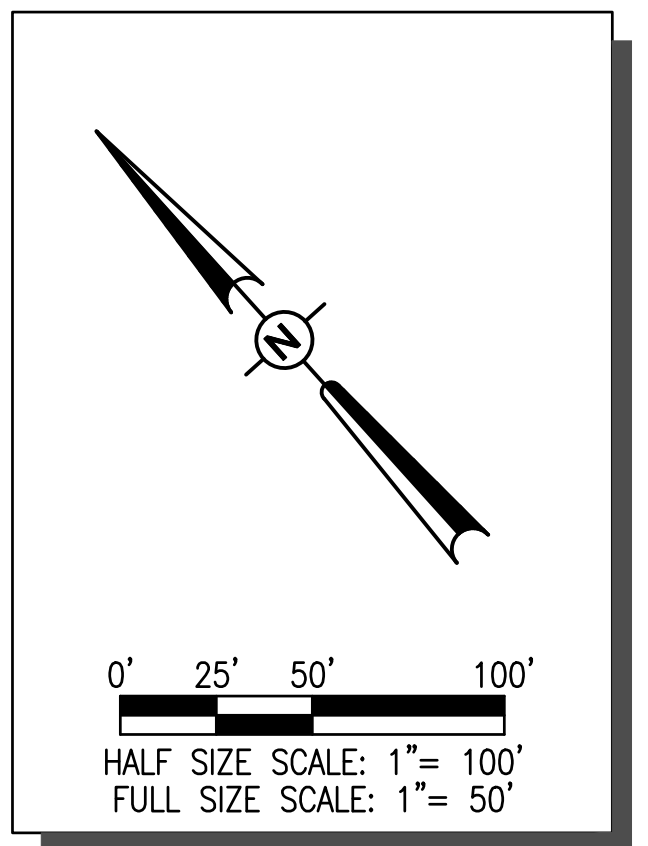
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 (WHITE-AR620520). INCLUDE 6" BLACK  
 BORDER (AR620525). SEE DETAIL SHEET

RUNWAY THRESHOLD MARKINGS  
 (WHITE-AR620520). INCLUDE 6" BLACK  
 BORDER (AR620525). SEE DETAIL SHEET

PROPOSED HOLD POSITION  
 MARKING. SEE DETAIL.  
 (AR620520/AR620525)

PROPOSED 12" YELLOW TAXIWAY  
 CENTERLINE (AR620520) WITH 6" BLACK  
 BORDER (AR620525)

TAXIWAY C



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RESURFACE RUNWAY  
 13-31 AND REMARK  
 RUNWAY 13-31, RUNWAY  
 4-22, AND ASSOCIATED  
 TAXIWAYS

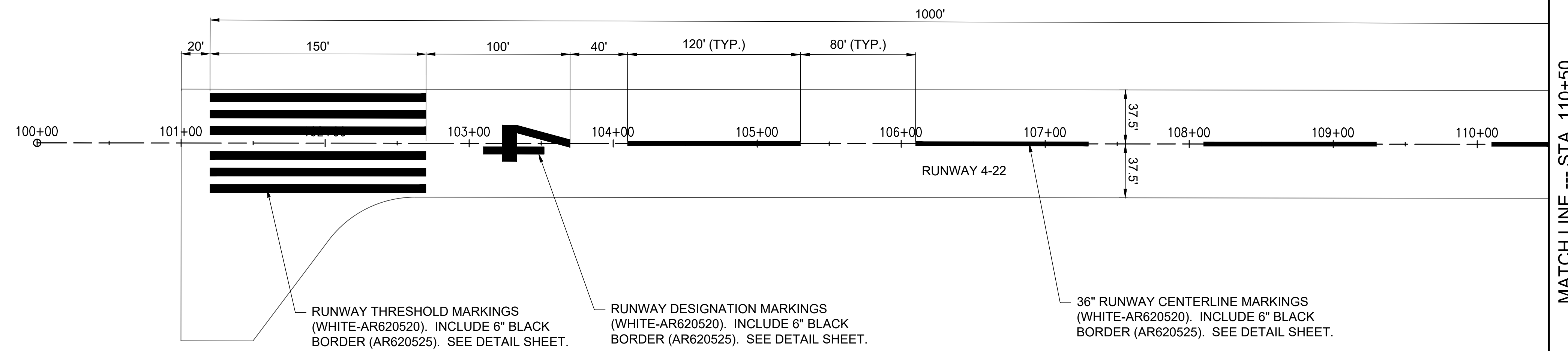
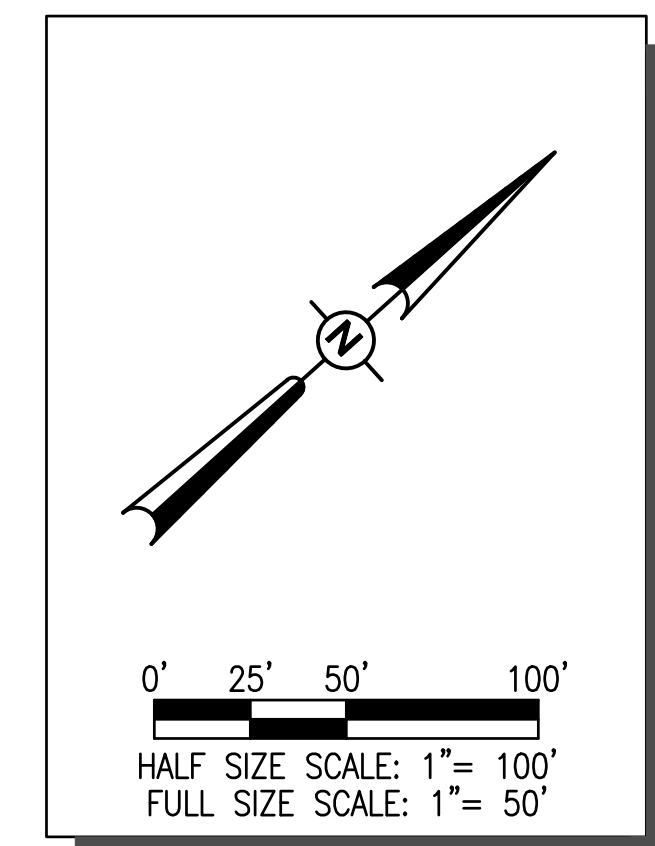
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SHEET TITLE

MARKING PLAN -  
 SHEET 5

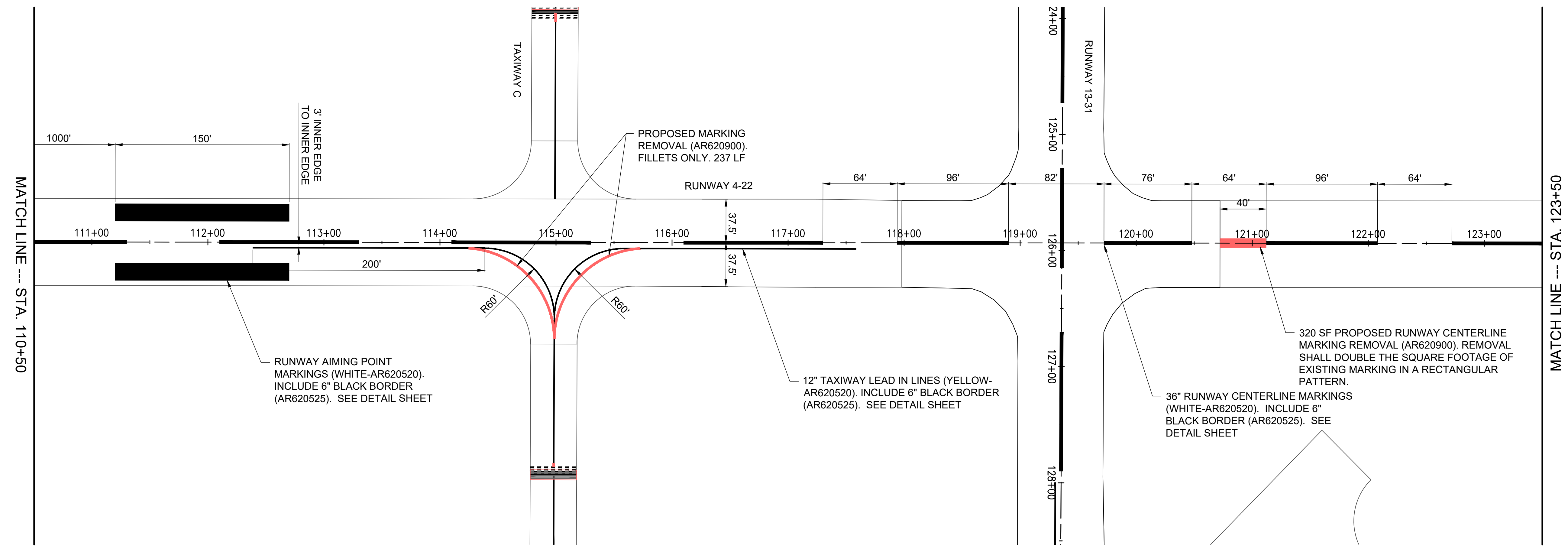


RUNWAY THRESHOLD MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET.

RUNWAY DESIGNATION MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET.

36" RUNWAY CENTERLINE MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET.

MATCH LINE --- STA. 110+50



RUNWAY AIMING POINT MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET

12" TAXIWAY LEAD IN LINES (YELLOW-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET

36" RUNWAY CENTERLINE MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET

320 SF PROPOSED RUNWAY CENTERLINE MARKING REMOVAL (AR620900). REMOVAL SHALL DOUBLE THE SQUARE FOOTAGE OF EXISTING MARKING IN A RECTANGULAR PATTERN.

PROPOSED MARKING REMOVAL (AR620900). FILLETS ONLY. 237 LF

MATCH LINE --- STA. 110+50

MATCH LINE --- STA. 123+50

RESURFACE RUNWAY 13-31 AND REMARK RUNWAY 13-31, RUNWAY 4-22, AND ASSOCIATED TAXIWAYS

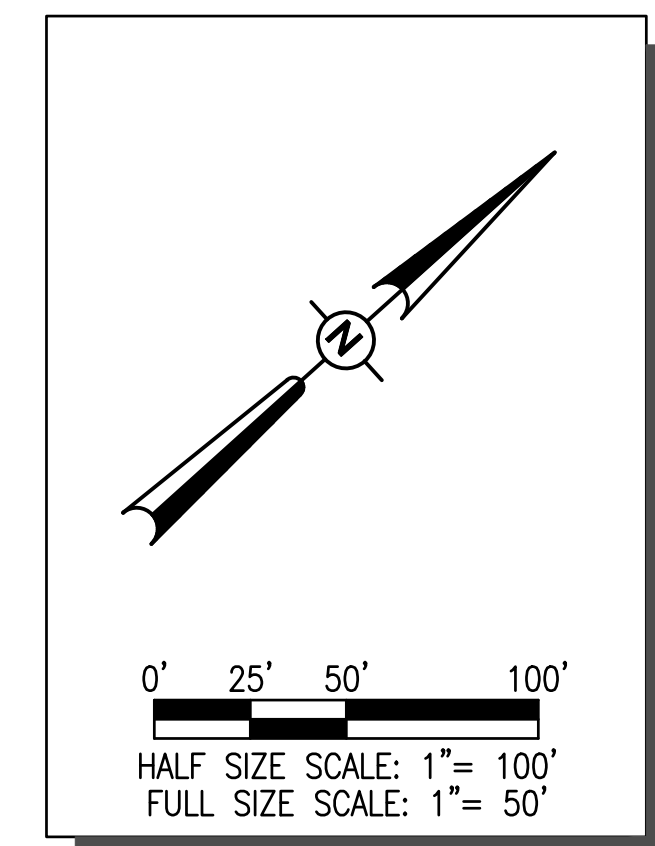
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REVIEWED BY: JMO 6/10/22

SHEET TITLE

MARKING PLAN - SHEET 6



**RESURFACE RUNWAY  
13-31 AND REMARK  
RUNWAY 13-31, RUNWAY  
4-22, AND ASSOCIATED  
TAXIWAYS**

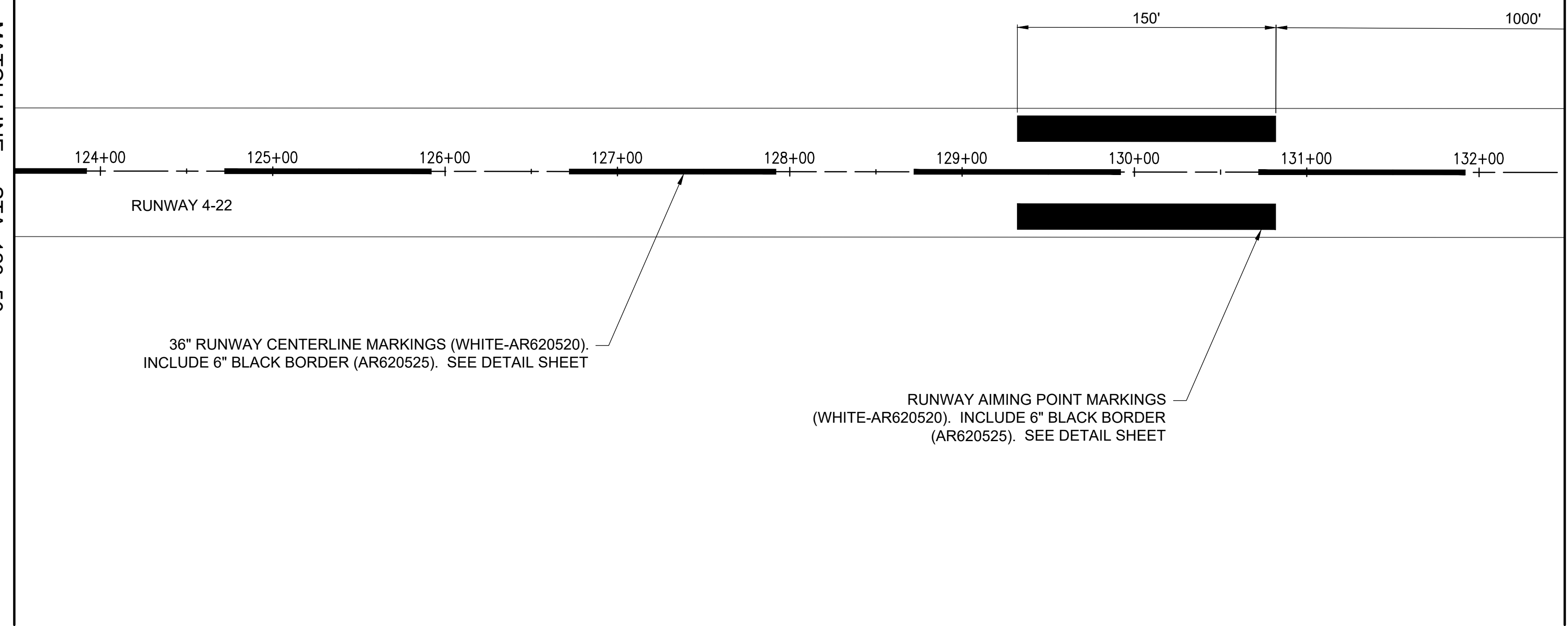
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REVIEWED BY: JMO 6/10/22

**MARKING PLAN -  
SHEET 7**

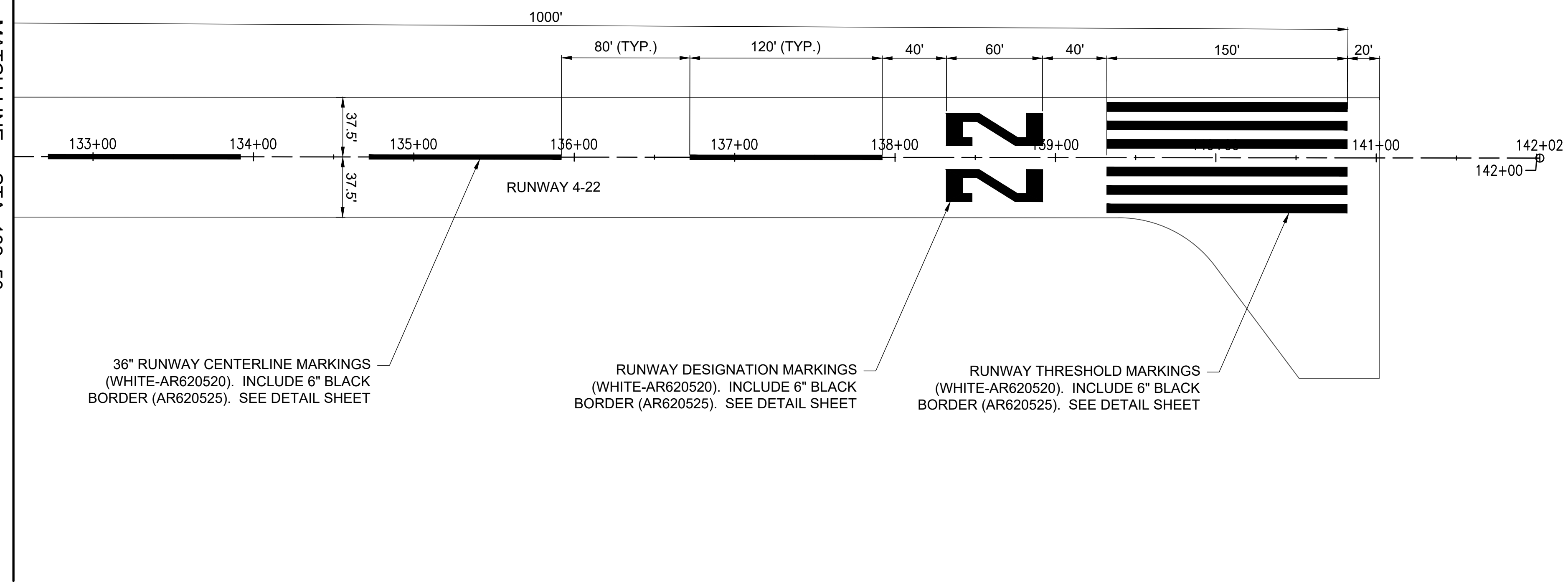
MATCH LINE --- STA. 123+50



36" RUNWAY CENTERLINE MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET

RUNWAY AIMING POINT MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET

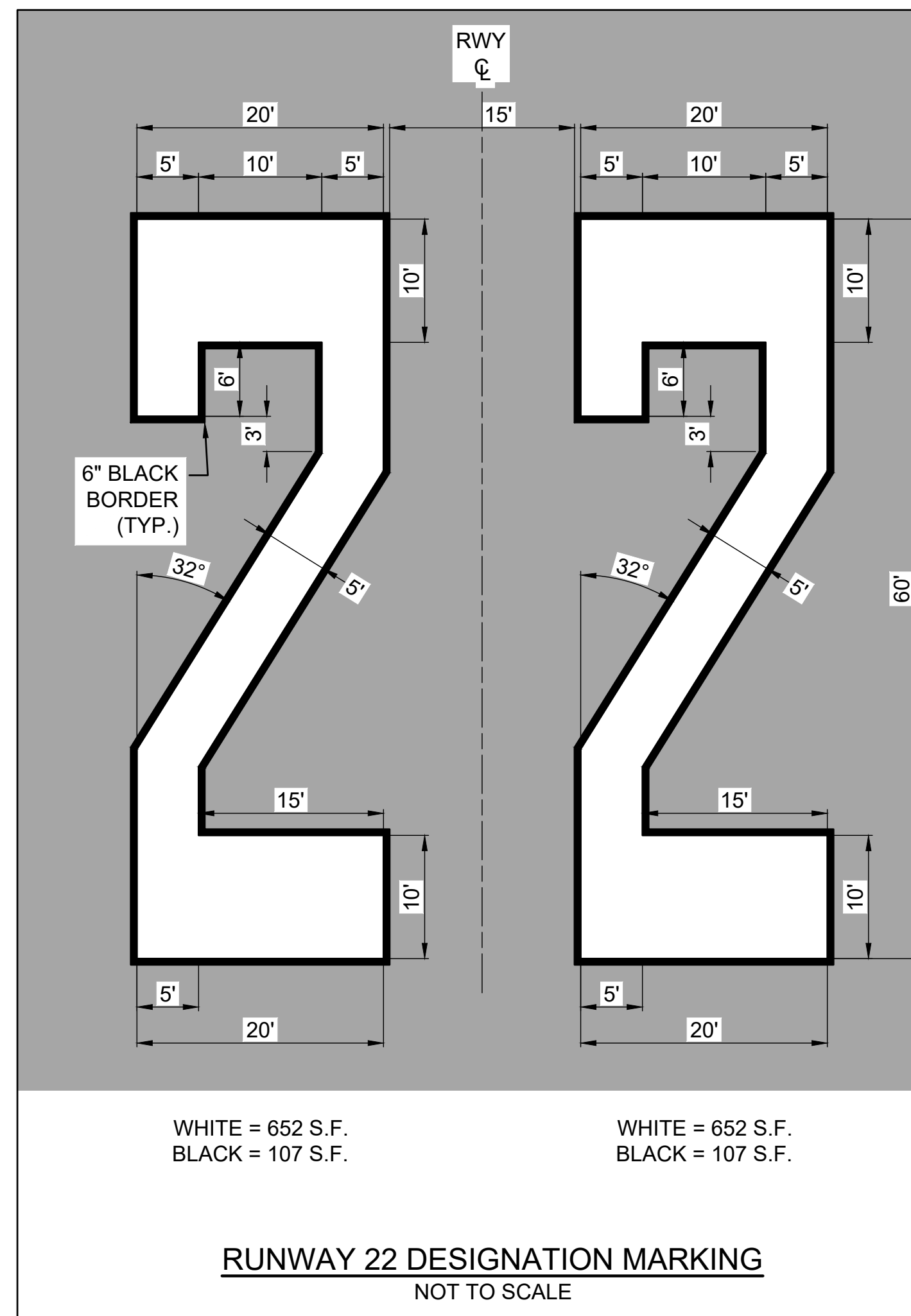
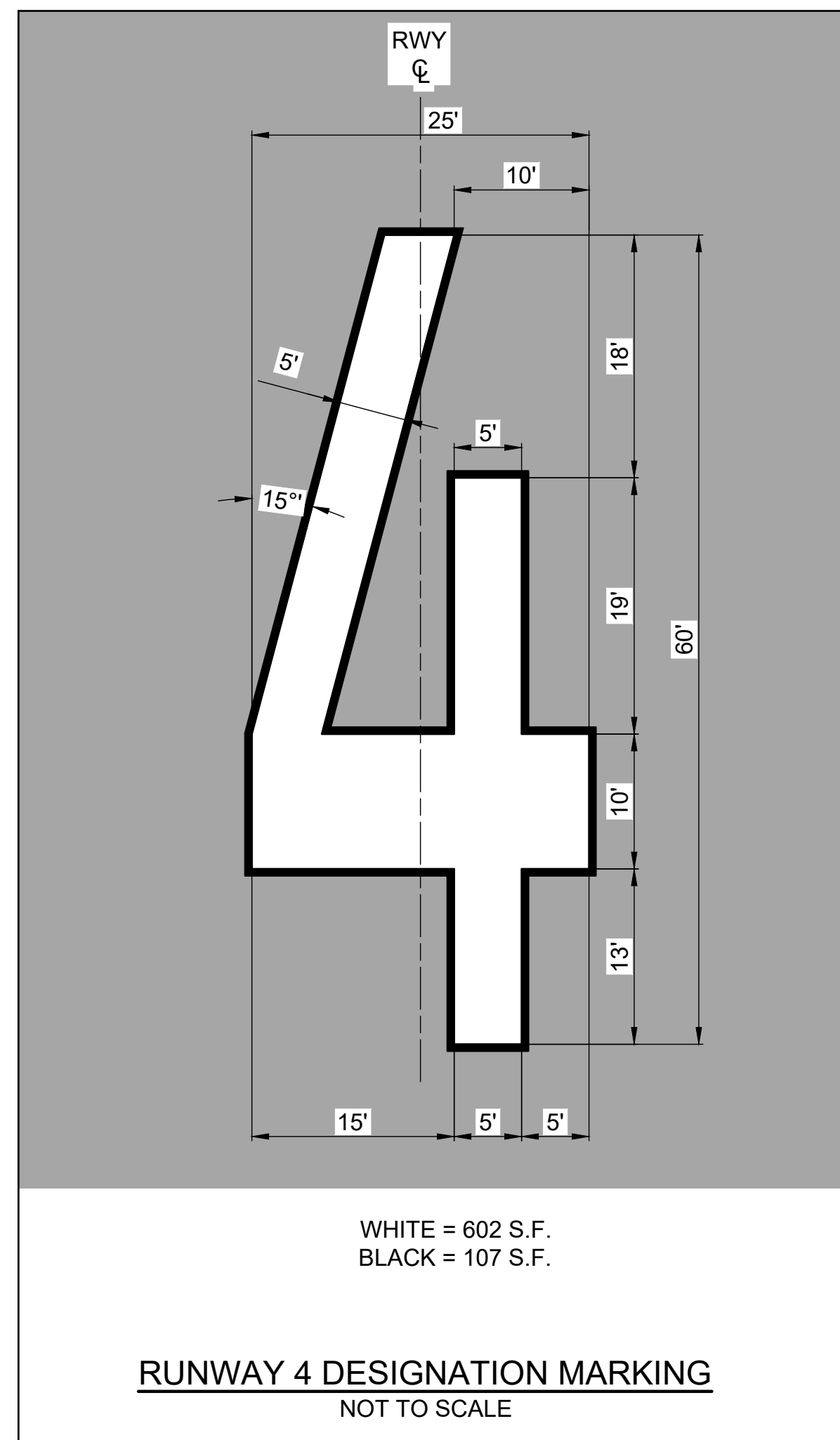
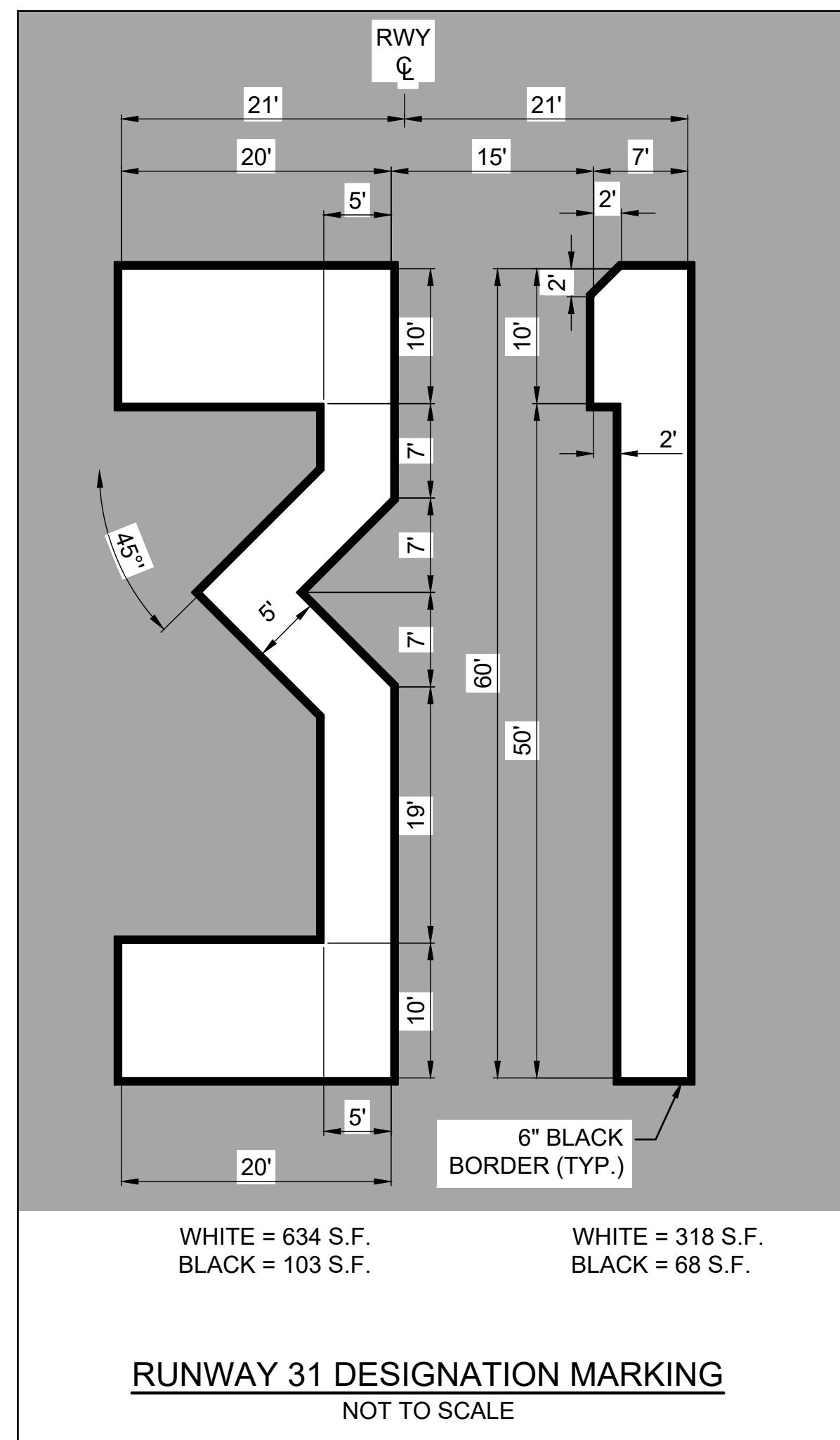
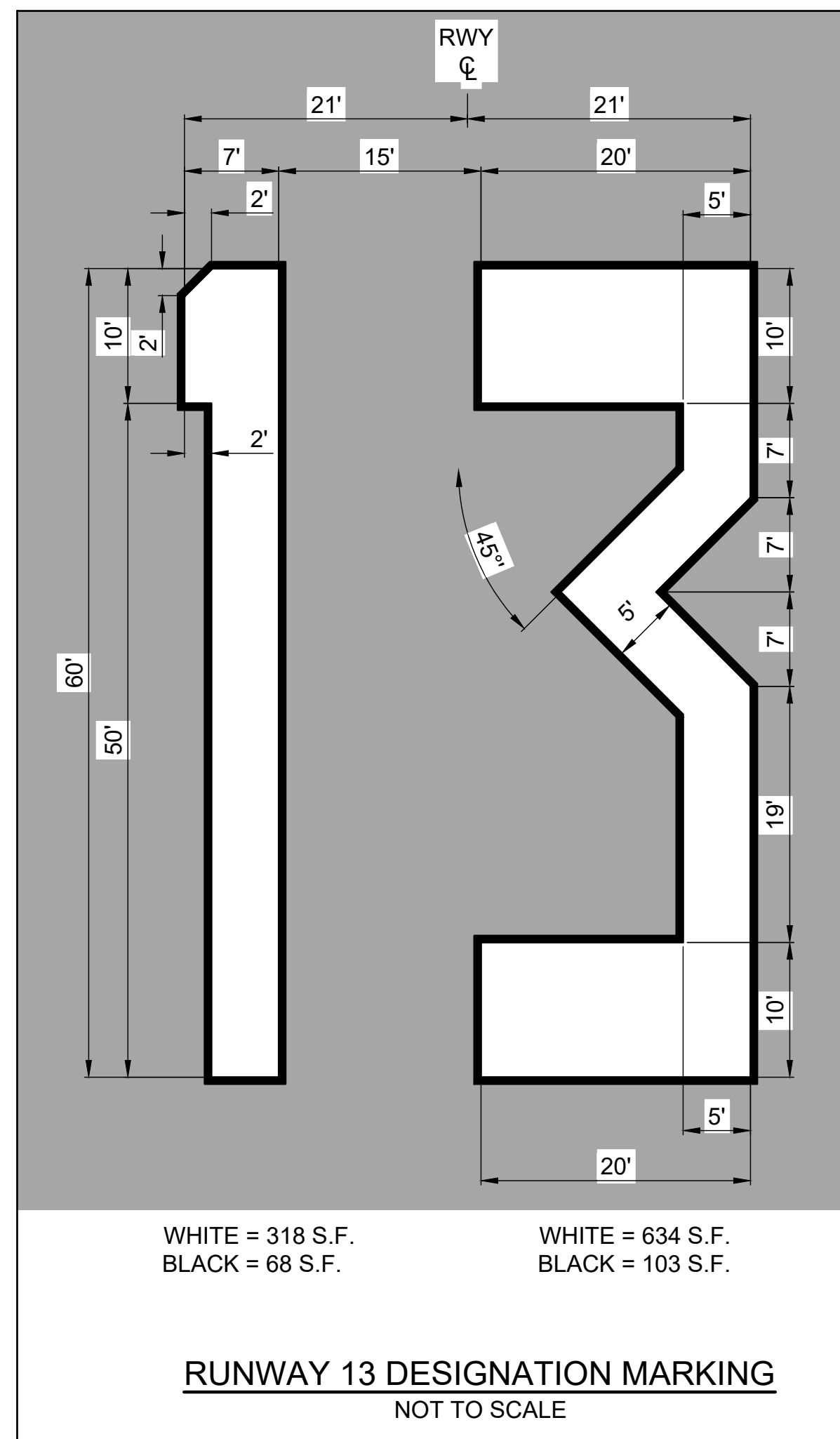
MATCH LINE --- STA. 132+50



36" RUNWAY CENTERLINE MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET

RUNWAY DESIGNATION MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET

RUNWAY THRESHOLD MARKINGS (WHITE-AR620520). INCLUDE 6" BLACK BORDER (AR620525). SEE DETAIL SHEET

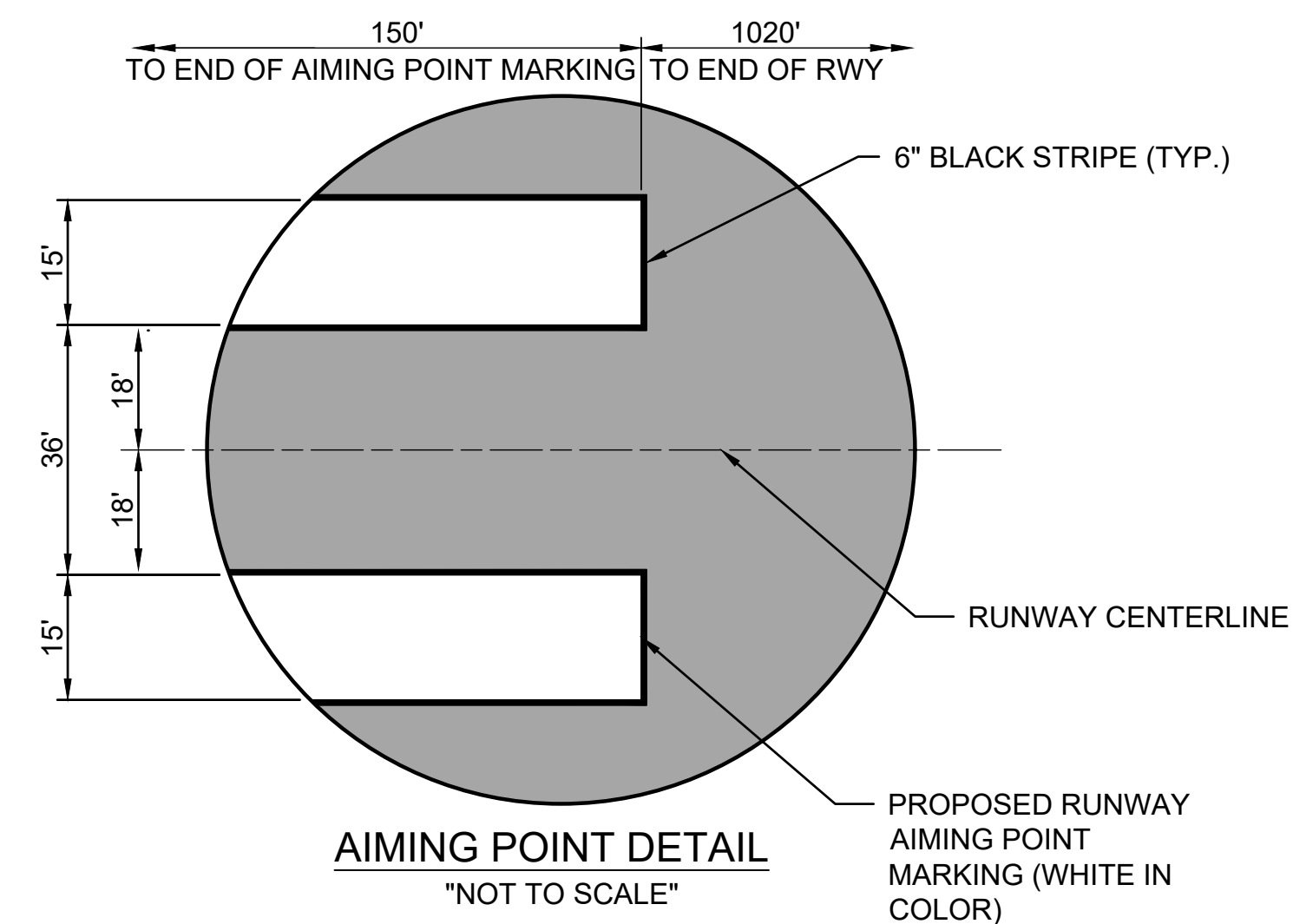
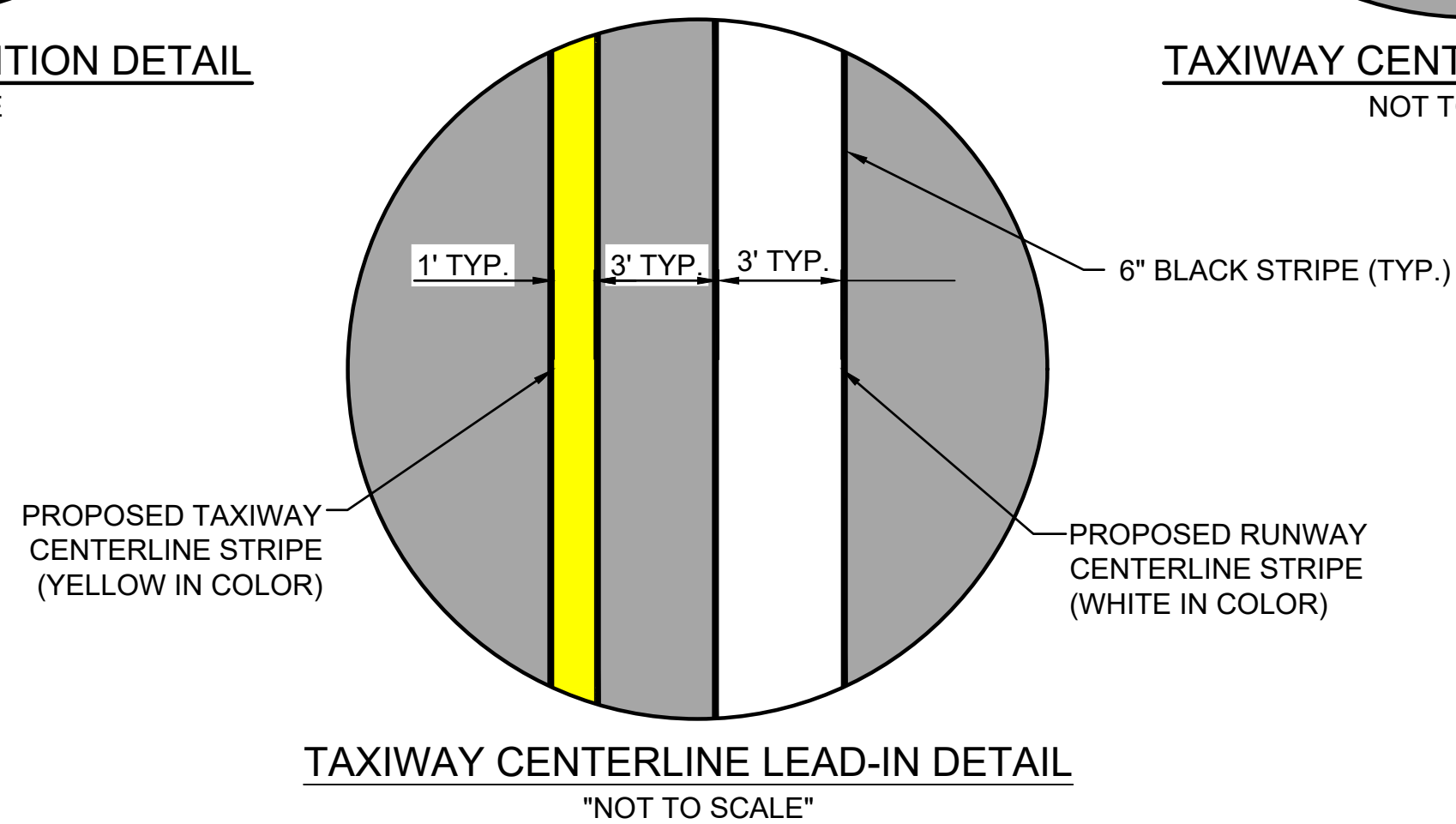
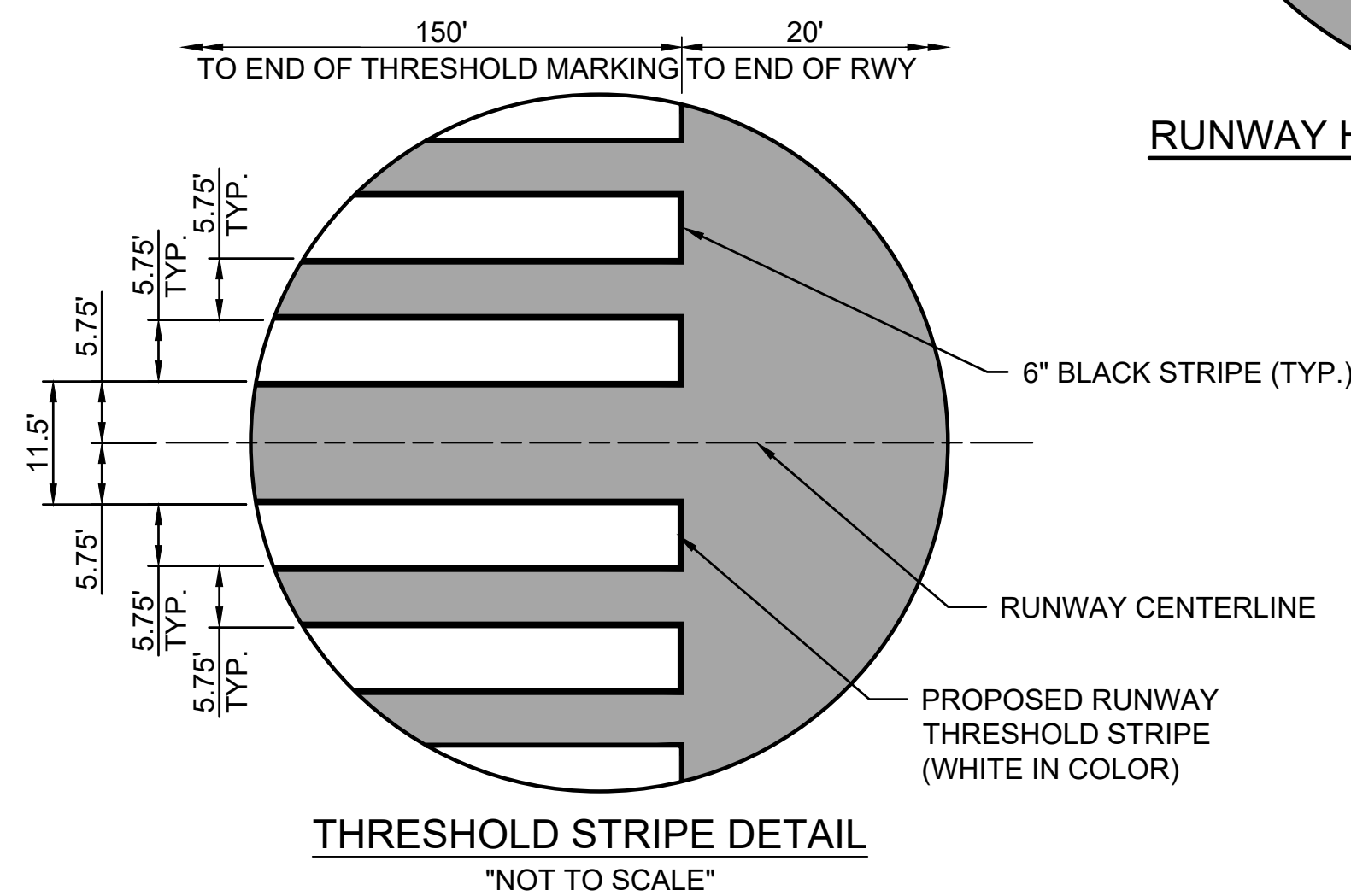
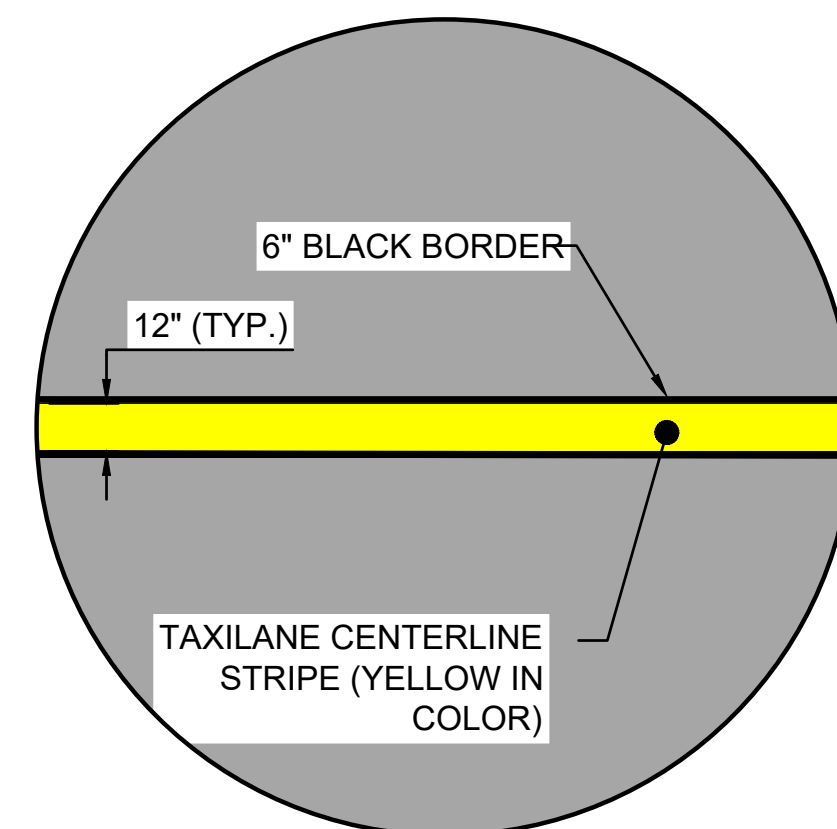
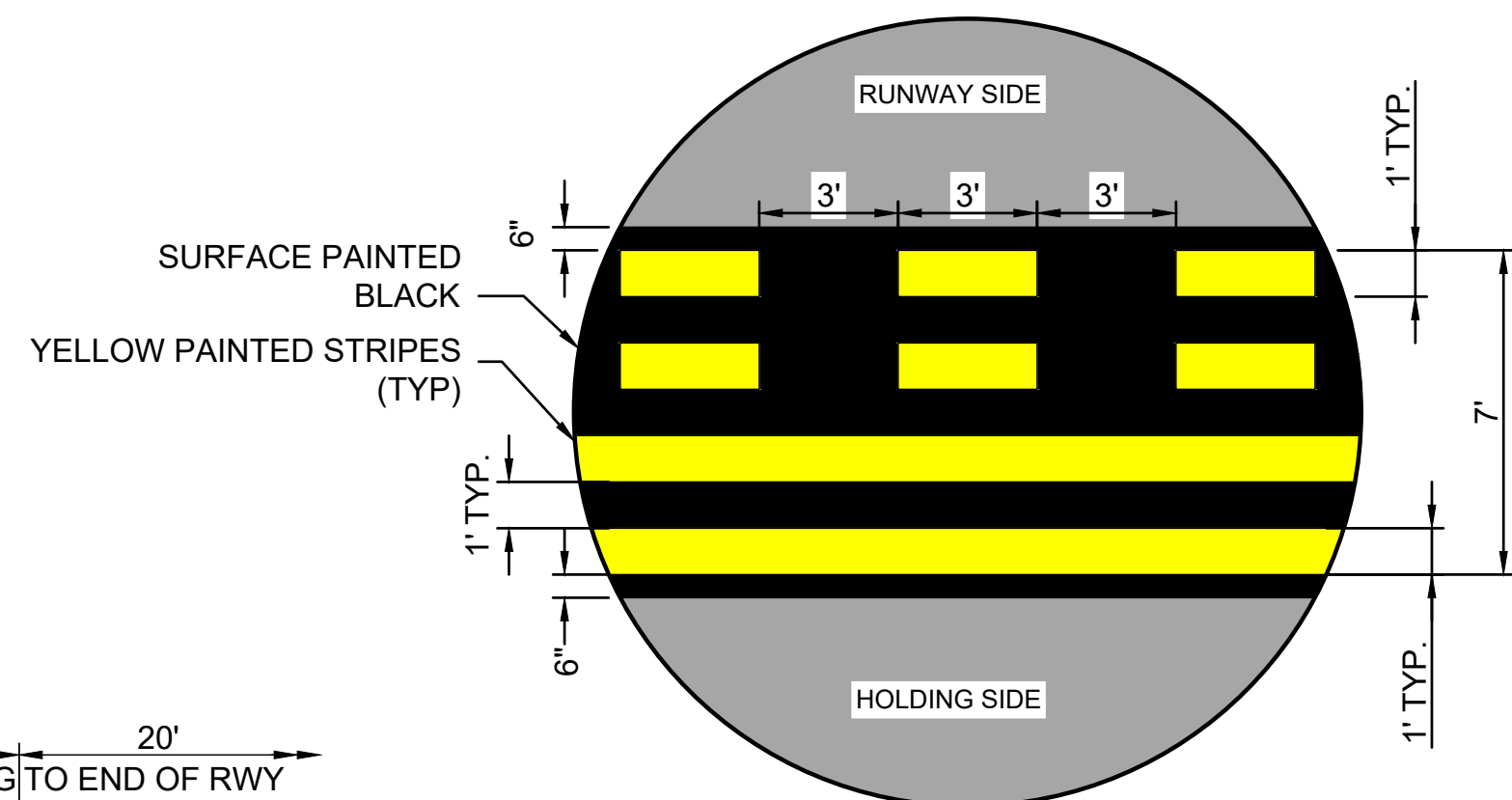


**RESURFACE RUNWAY  
13-31 AND REMARK  
RUNWAY 13-31, RUNWAY  
4-22, AND ASSOCIATED  
TAXIWAYS**

IDA No: IJX-4937  
SBGP No: 3-17-SBGP-TBD  
Contract No.: JA041

**RUNWAY DESIGNATION MARKING NOTES:**

1. ALL NUMERAL MARKING WILL BE WHITE IN COLOR WITH A 6" BLACK OUTLINE.
2. NUMERALS ARE HORIZONTALLY SPACED 15 FEET APART.
3. DOUBLE DIGIT NUMERAL DESIGNATIONS ARE CENTERED ON THE RUNWAY PAVEMENT CENTERLINE BASED ON THE CENTER OF THE OUTER EDGES OF THE TWO NUMERALS.
4. ALL DIMENSIONS SHOWN ARE FOR WHITE MARKINGS..



NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: 05/13/22  
PROJECT NO: 21A0103  
CAD FILE: C-551-MRK.DWG  
DESIGN BY: JMO 05/06/2022  
DRAWN BY: HLE 05/06/2022  
REVIEWED BY: JMO 6/10/22

SHEET TITLE

**MARKING DETAILS**