CONSTRUCTION PLANS

REHABILITATE RUNWAY 18-36

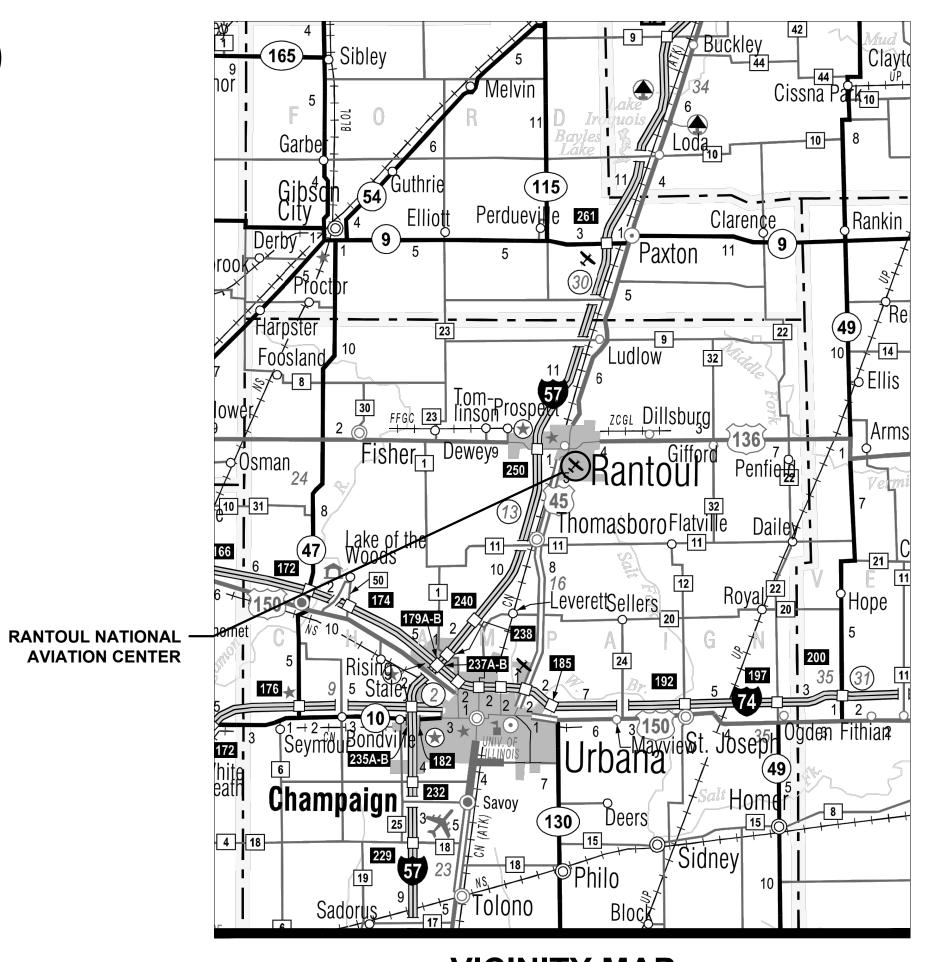
VILLAGE OF RANTOUL RANTOUL NATIONAL AVIATION CENTER (TIP) RANTOUL, CHAMPAIGN COUNTY, ILLINOIS

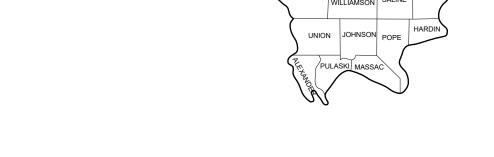
ILLINOIS PROJECT NO. TIP-4959
SBG PROJECT NO. 3-17-SBGP-162/171/184

MARCH 3, 2023 (100% SUBMITTAL)

NOTICE TO CONTRACTORS AND BIDDERS

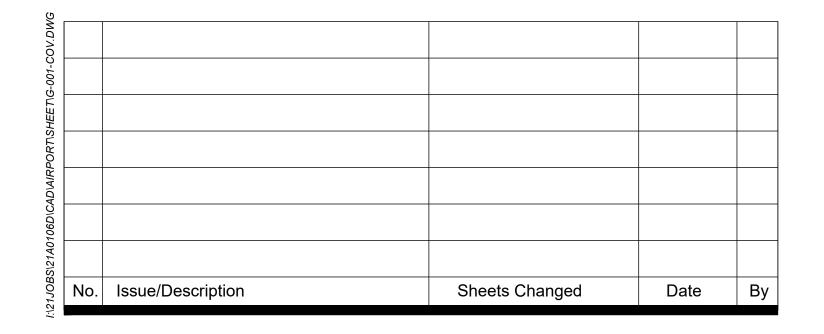
THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.





VICINITY MAP

LOCATION MAP



HANSON	
HANSON PROFESSIONAL SERVICES INC.	
1525 S. 6th Street	
Springfield, IL 62703	
Telephone: 217-788-2450	
Fax: 217-788-2503	
All chan	3/3/2023
Jeffrey M. Olson, P.E.	Date
Project Manager	

Part to 11	RANTOUL NATIONAL AVIATION CENTER AIRPORT FRANK ELLIOTT FIELD 333 South Tanner Street, P.O. Box 38 Rantoul, IL 61866 Felephone: 217-892-6800
Jacob D. McCoy, P.E. Director of Public Wor	

	INDEX TO SHEETS				
SHEET NO.	SHEET TITLE				
1	COVER SHEET				
2	SHEET INDEX AND SUMMARY OF QUANTITIES				
3	SCOPE OF WORK				
4	SAFETY PLAN				
5	SAFETY PLAN NOTES & DETAILS				
6	TYPICAL SECTIONS				
7	PAVEMENT PREPARATION PLAN - STA. 100+00 TO STA. 120+00				
8	PAVEMENT PREPARATION PLAN - STA. 120+00 TO STA. 146+00				
9	PAVEMENT PREPARATION PLAN - STA. 146+00 TO STA. 149+98.43				
10	PLAN & PROFILE - STA. 100+00 TO STA. 112+00				
11	PLAN & PROFILE - STA. 112+00 TO STA. 125+00				
12	PLAN & PROFILE - STA. 125+00 TO STA. 138+00				
13	PLAN & PROFILE - STA. 138+00 TO STA. 149+98.43				
14	MARKING PLAN - STA. 100+00 TO STA. 125+00				
15	MARKING PLAN - STA. 125+00 TO STA. 149+98.43				
16	RUNWAY MARKING DETAILS				

SUMMARY OF QUANTITIES - BASE BID					
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	AS-BUILT QUANTITY	
AR150520	MOBILIZATION	L SUM	1		
AR201661	CLEAN & SEAL BITUMINOUS CRACKS	FOOT	14,700		
AR401614	BIT. SURF. CSEMETHOD II, SUPERPAVE	TON	5,040		
AR401650	BITUMINOUS PAVEMENT MILLING	SQ YD	43,819		
AR401915	REM & REP BIT PAVEMENT-TYPE A	SQ YD	43		
AR401916	REM & REP BIT PAVEMENT-TYPE B	SQ YD	253		
AR603510	BITUMINOUS TACK COAT	GALLON	4,382		
AR620520	PAVEMENT MARKING-WATERBORNE	SQ FT	61,875		
AR620525	PAVEMENT MARKING-BLACK BORDER	SQ FT	17,759		

UTILITY NOTE

THE LOCATION, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123. CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER, CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND/OR LOCATED BY THE FAA. ALSO CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.

GENERAL NOTES

- 1. THE PROJECT PAY ITEMS ARE INTENDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL INCIDENTAL WORK REQUIRED TO COMPLETE THE PROJECT TO THE SATISFACTION OF THE RESIDENT ENGINEER IS TO BE INCLUDED IN THE COSTS OF PERFORMING THESE ITEMS. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY TO CONSTRUCT ALL ELEMENTS OF THE PROJECT AS DESCRIBED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS.
- 2. THE RULES, REGULATIONS, AND SPECIFICATIONS ENUMERATED HEREIN SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. THEY SHALL NOT PROHIBIT THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIAL THAN ARE SPECIFIED HEREIN, IF APPROVED BY THE ENGINEER.
- 3. ACCESS TO THE SITE SHALL BE RESTRICTED EXCLUSIVELY TO THE DESIGNATED CONSTRUCTION ENTRANCE, STAGING AREA, AND HAUL ROUTE. NO EQUIPMENT OR PERSONNEL SHALL BE PERMITTED OUTSIDE THE GENERAL PROJECT AREA.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND KEEP CLEAN OF DEBRIS ALL EXISTING AIRFIELD AND ROADWAY PAVEMENTS AT ALL TIMES. ANY DAMAGE TO EXISTING ELECTRICAL, DRAINAGE, AND PAVEMENT STRUCTURES SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE CONTRACT.
- 5. CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN RESTROOM FACILITIES.
- 6. THE LOCATION OF THE ENGINEER'S FIELD OFFICE WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.
- 7. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL FOR ALL SALVAGEABLE MATERIAL REMOVED ON THE PROJECT.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR HAULING ON PUBLIC ROADS, AS APPLICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGES TO ANY PAVEMENTS (PUBLIC OR PRIVATE) CAUSED BY HIS/HER CONSTRUCTION EQUIPMENT OR PERSONNEL.
- 9. THE CONTRACTOR SHALL PROVIDE ONE SET OF PRELIMINARY REDLINED RECORD DRAWINGS TO THE RESIDENT ENGINEER AT THE COMPLETION OF THE PROJECT FOR INCORPORATION INTO THE OFFICIAL RECORD DRAWINGS HE WILL PREPARE.
- 10. APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN THROUGHOUT THESE PLANS. THE CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AND PROTECT THESE UTILITIES DURING CONSTRUCTION. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COORDINATE WITH THE PROPER AUTHORITIES FOR THE PURPOSE OF LOCATING AND PROTECTING EXISTING UNDERGROUND UTILITIES.
- 11. DURING CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN SUCH A MANNER TO PREVENT DEBRIS FROM ENTERING THE DOWNSTREAM DRAINAGE PIPES. FAILURE TO DO SO THAT RESULTS IN DEBRIS DEPOSITS IN DOWNSTREAM PIPE OR STRUCTURES WILL REQUIRE THE CONTRACTOR TO REMOVE THE RESULTING DEBRIS AT NO ADDITIONAL COST TO THE OWNER.
- 12. MATERIAL CERTIFICATIONS MATERIALS CANNOT BE INSTALLED UNTIL ALL THE MATERIAL CERTIFICATIONS FOR THAT ITEM HAVE BEEN RECEIVED, REVIEWED AND ACCEPTED BY THE RESIDENT ENGINEER. MATERIALS INSTALLED WITHOUT APPROVAL ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 13. <u>CERTIFIED PAYROLLS</u> THE RESIDENT ENGINEER <u>CANNOT</u> FORWARD A CONSTRUCTION REPORT FOR PAYMENT TO THE IDOT-DIVISION OF AERONAUTICS FOR PROCESSING UNTIL <u>ALL</u> CERTIFIED PAYROLLS FOR THAT PERIOD HAVE BEEN RECEIVED.

J.U.L.I.E. INFORMATION

COUNTY	_CHAMPAIGN
CITY	RANTOUL
TOWNSHIP	T21N, R9E
SECTION NO	_2,11,12
ADDRESS	_RANTOUL NATIONAL AVIATION CENTER
	333 SOUTH TANNER STREET
	RANTOUL, ILLINOIS 61866

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#184-001084



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REHABILITATE RUNWAY 18-36

IDA No: TIP-4959

SBGP No: 3-17-SBGP-162/171/184

Contract No.: RA018

NO. DATE | DESCRIPTION | DES | DWN | REV |

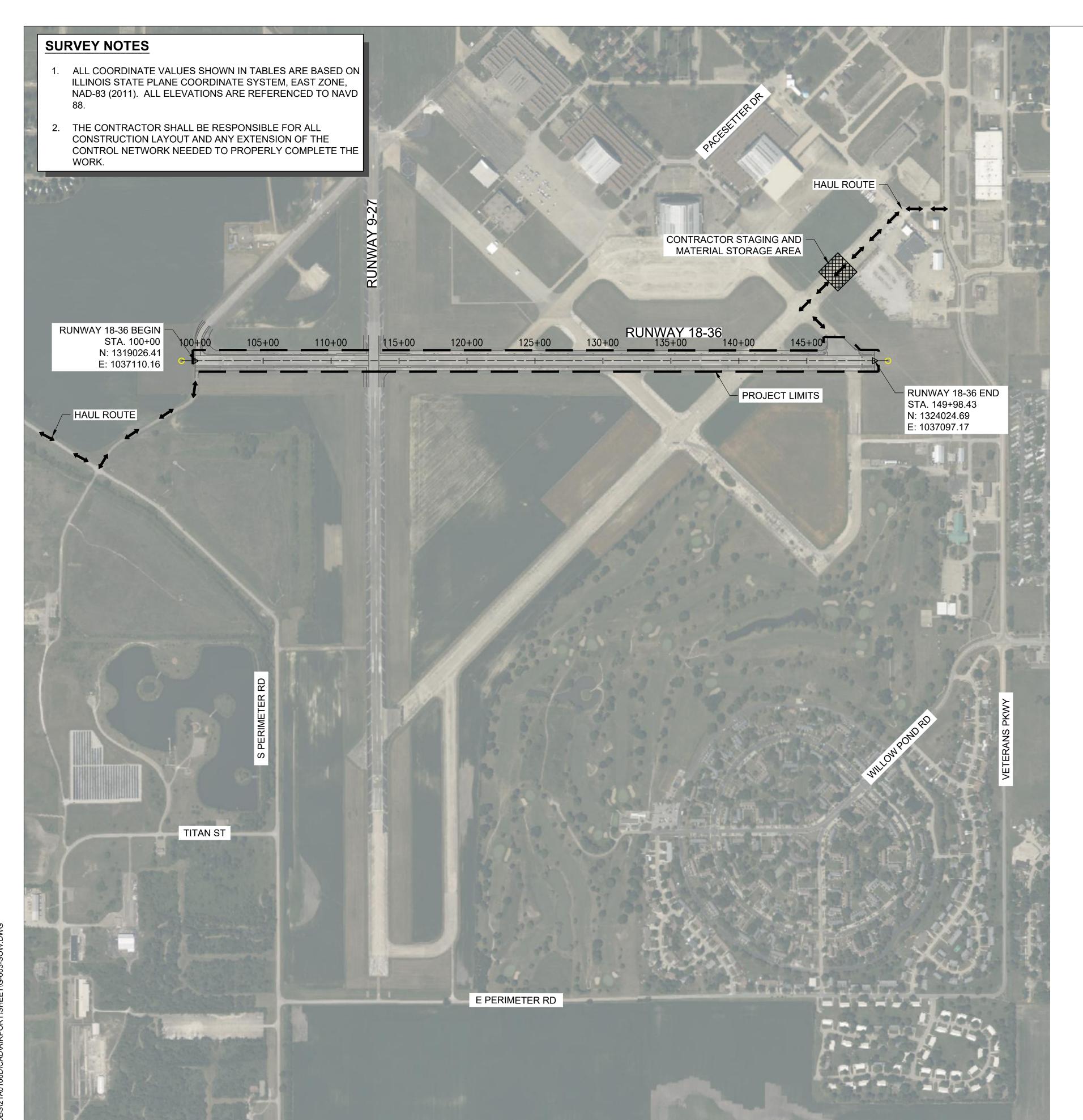
ISSUE: 5/13/2022
PROJECT NO: 21A0106
CAD FILE: G-002-SOQ.DWG
DESIGN BY: CEM 5/5/2022

SHEET INDEX AND SUMMARY OF QUANTITIES

DRAWN BY: CEM 5/5/2022

SHEET TITLE

REVIEWED BY: JMO 5/5/2022



ALIGNMENT DATA							
ALIGNMENT LOCATION STATION EASTING NORTHING							
RUNWAY 18-36	BEGIN	100+00	1,037,110.16	1,319,026.41			
	END	149+98.43	1,037,097.17	1,324,024.69			

SCOPE OF WORK

 PROJECT CONSISTS OF NOMINAL DEPTH ASPHALT MILLING, HMA OVERLAY, HMA PATCHING, HMA CRACK SEALING, AND WATERBORNE MARKING.

GENERAL

- RANTOUL NATIONAL AVIATION CENTER IS A NON-TOWER CONTROLLED, GENERAL AVIATION AIRPORT COMPRISED OF TWO PAVED RUNWAYS (RUNWAY 18-36 AND RUNWAY 9-27).
- THE PROPOSED CONSTRUCTION WILL REQUIRE THE CLOSURE OF RUNWAY 18-36 FOR THE DURATION OF THE PROJECT. THE CONNECTING TAXIWAYS AND RUNWAY 9-27 WILL BE CLOSED AT VARIOUS TIMES THROUGHOUT THE PROJECT.
- IN ORDER TO MAINTAIN AN ACTIVE RUNWAY 9-27, FLAGGERS WITH TWO-WAY RADIO COMMUNICATION WILL BE REQUIRED.

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.



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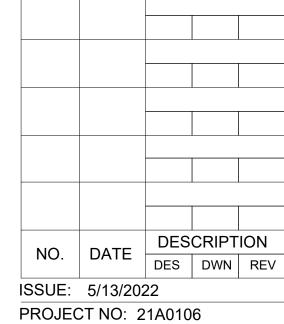
Rantoul National Aviation Center 333 South Tanner Street Rantoul, Illinois 61866 Telephone: 217.892.6800 Fax: 217.892.6899

REHABILITATE RUNWAY 18-36

IDA No: TIP-4959

SBGP No: 3-17-SBGP-162/171/184

Contract No.: RA018



PROJECT NO: 21A0106

CAD FILE: G-003-SOW.DWG

DESIGN BY: CEM 5/5/2022

DRAWN BY: CEM 5/5/2022

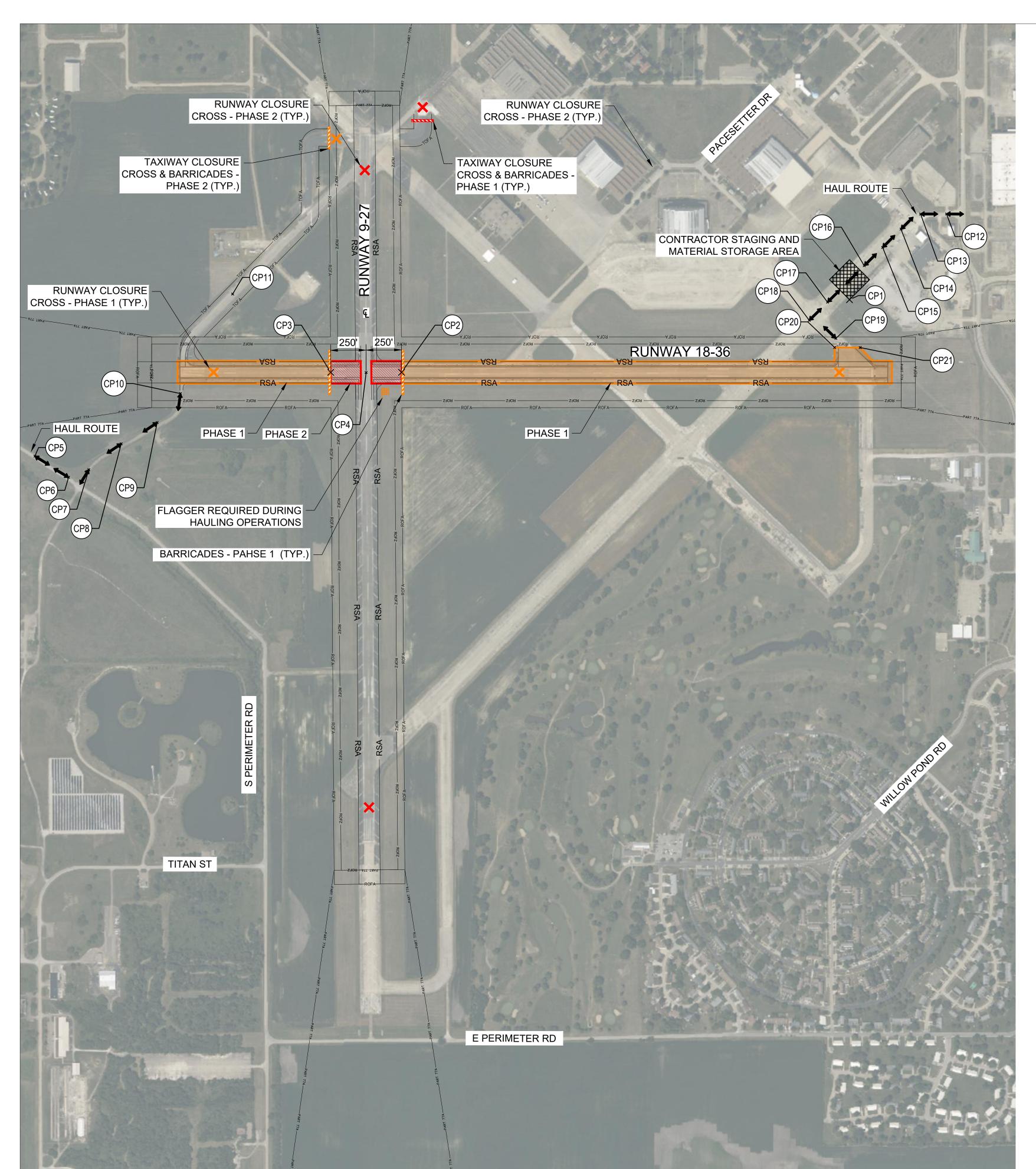
REVIEWED BY: JMO 5/5/2022

SHEET TITLE

SCOPE OF WORK

0' 25' 400' 800'

HALF SIZE SCALE: 1"= 800'
FULL SIZE SCALE: 1"= 400'



	CONTROL POINTS						
POINT#	DESCRIPTION	LATITUDE	LONGITUDE	GND ELEV. (MSL)	MAX. EQUIP. HEIGHT (FT)	TOP ELEV. GND + EQUIP. HEIGHT (MSL)	
1	STAGING AREA + EQUIP	040° 18' 04.96"	-088° 08' 44.51"	737	25'	762	
2	EQUIPMENT	040° 17' 33.70"	-088° 08' 37.88"	735	25'	760	
3	EQUIPMENT	040° 17' 28.76"	-088° 08' 37.87"	733	25'	758	
4	EQUIPMENT CROSSING	040° 17' 31.23"	-088° 08' 37.85"	734	25'	759	
5	TRUCKING	040° 17' 08.12"	-088° 08' 30.22"	725	25'	750	
6	TRUCKING	040° 17' 10.47"	-088° 08' 28.29"	725	25'	750	
7	TRUCKING	040° 17' 11.88"	-088° 08' 28.98"	726	25'	751	
8	TRUCKING	040° 17' 14.14"	-088° 08' 31.35"	728	25'	753	
9	TRUCKING	040° 17' 16.65"	-088° 08' 33.28"	729	25'	754	
10	TRUCKING	040° 17' 18.28"	-088° 08' 35.93"	732	25'	757	
11	NO EQUIP	040° 17' 21.91"	-088° 08' 45.00"	732	25'	757	
12	TRUCKING	040° 18' 11.73"	-088° 08' 52.33"	739	25'	764	
13	TRUCKING	040° 18' 09.92"	-088° 08' 52.32"	738	25'	763	
14	TRUCKING	040° 18' 08.56"	-088° 08' 50.95"	737	25'	762	
15	TRUCKING	040° 18' 07.28"	-088° 08' 49.27"	736	25'	761	
16	TRUCKING	040° 18' 05.99"	-088° 08' 47.61"	736	25'	761	
17	TRUCKING	040° 18' 03.43"	-088° 08' 44.29"	737	25'	762	
18	TRUCKING	040° 18' 02.16"	-088° 08' 42.63"	737	25'	762	
19	TRUCKING	040° 18' 04.01"	-088° 08' 40.98"	737	25'	762	
20	EQUIPMENT	040° 18' 03.92"	-088° 08' 40.16"	737	25'	762	
21	EQUIPMENT	040° 18' 05.71"	-088° 08' 40.15"	737	25'	762	

PHASE 1

WORK TO BE COMPLETED

• MILLING, PATCHING, PAVING, CRACK SEALING, AND MARKING SHALL BE COMPLETED.

AIRFIELD CLOSURES AND CHANGES

RUNWAY 18-36 WILL BE CLOSED AND RUNWAY 9-27 WILL REMAIN OPEN.

PHASE 2

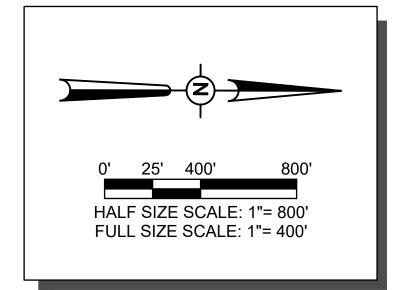
WORK TO BE COMPLETED

MILLING, PATCHING, PAVING, CRACK SEALING, AND MARKING SHALL BE COMPLETED.

AIRFIELD CLOSURES AND CHANGES

RUNWAY 18-36 AND RUNWAY 9-27 WILL BE CLOSED.

EXISTING	PROPOSED	LEGEND
		PHASE 1 WORK AREA
		PAHSE 2 WORK AREA
		STAGING AREA (AR150520)
	XX	TEMPORARY RUNWAY CLOSURE CROSS (AR150530)
		LOW PROFILE BARRICADE (AR150530)
	\longleftrightarrow	TEMPORARY HAUL ROUTE / ACCESS ROUTE (AR150540)
	I	ESCORT/FLAGMAN LOCATION
	(CP1)	SAFETY CRITICAL POINT



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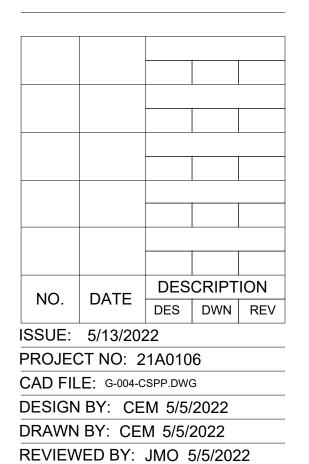
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REHABILITATE RUNWAY 18-36

IDA No: TIP-4959

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Contract No.: RA018



SAFETY PLAN

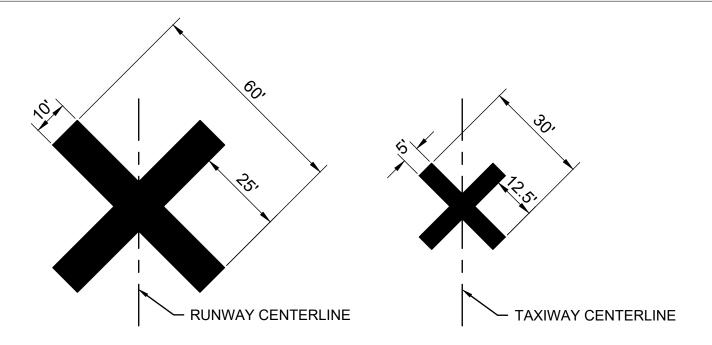
SHEET TITLE

- 2. THE CONTRACTORS SHALL MINIMIZE DISRUPTION OF STANDARD OPERATING PROCEDURES FOR PHASING AREAS PRESENTED ON THE CONSTRUCTION SAFETY AND PHASING PLAN SHEETS.
- 3. 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.
- 4. 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
- 5. 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 $\underline{250}$ ' OF RWY 9/27 AND/OR $\underline{125}$ ' OF RWY 18/36 (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.
- 7. 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.
- 8. 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.
- 10. 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
- 11. 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.
- 12. 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.
- 13. 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 SWEPT, PICKED UP AND REMOVED, OR PLACED INTO CLOSED CONTAINERS. ANY DAMAGE TO AIRPORT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER.
- 14. 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.
- 15. 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.
- 16. ALL AIRCRAFT AND AIRPORT OPERATIONS HAVE THE RIGHT-OF-WAY. CONTRACTOR TO YIELD TO VEHICLES AND REMAIN CLEAR AT ALL TIMES.
- 17. 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.
- 18. CONTRACTOR SHALL MARK HAZARDOUS AREA WITH STEADY-BURNING OR FLASHING RED LIGHTS DURING PERIODS OF LOW VISIBILITY AS REQUIRED

- 19. 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.
- 20. CONTRACTOR SHALL MOVE MAINTENANCE OF TRAFFIC COMPONENTS AT THE WRITTEN DIRECTION OF THE RESIDENT ENGINEER/TECHNICIAN AT NO ADDITIONAL COST.
- AERONAUTICAL ACTIVITY BY REMAINING WITHIN THE PRESCRIBED STAGING, CONSTRUCTION, AND 21. CONTRACTOR SHALL NOT REMOVE THE BARRICADES WITHOUT THE APPROVAL BY THE RESIDENT ENGINEER/TECHNICIAN.
 - 22. 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.
 - 23. THE CONTRACTOR SHALL UTILIZE WATER AND/OR CHEMICALS APPROVED BY THE RESIDENT ENGINEER/TECHNICIAN AS NECESSARY TO CONTROL DUST.
 - 24. 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.
 - 25. 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.
 - 26. 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".
 - 27. 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
 - 28. 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:

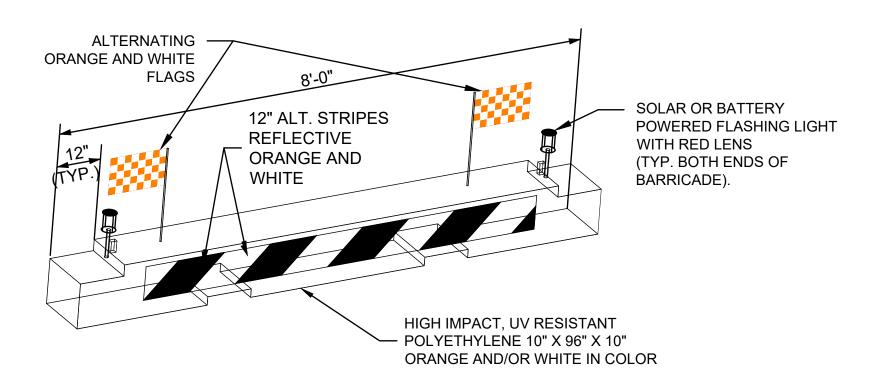
- ENSURE ALL PERSONNEL, EQUIPMENT AND MATERIALS ARE CLEAR OF THE AIR OPERATIONS
- INSPECT THE AREA FOR LOOSE OR TRACKED DEBRIS, PAVEMENT DROP-OFFS, AND OPEN TRENCHES.
- CONTACT AIRPORT MANAGEMENT OR REPRESENTATIVE FOR FINAL INSPECTION OF THE
- REMOVE BARRICADES AND CROSSES.
- ACTIVATION OF THE AIRFIELD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



TEMPORARY CLOSURE CROSS DETAIL

NOT TO SCALE

- 1. TEMPORARY "CLOSED RUNWAY" AND "CLOSED TAXIWAY" MARKINGS SHALL BE "AVIATION YELLOW"
- 2. 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.
- 3. 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.

BARRICADE NOTES

- 1. 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 6. 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.
- 7. COST FOR PROVIDING, PLACING, MAINTAINING, RELOCATING AND REMOVING BARRICADES SHALL BE INCLUDED AS AN INCIDENTAL COST TO THE CONTRACT, UNLESS OTHERWISE NOTED.

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REHABILITATE **RUNWAY 18-36**

IDA No: TIP-4959

SBGP No: 3-17-SBGP-162/171/184

Contract No.: RA018

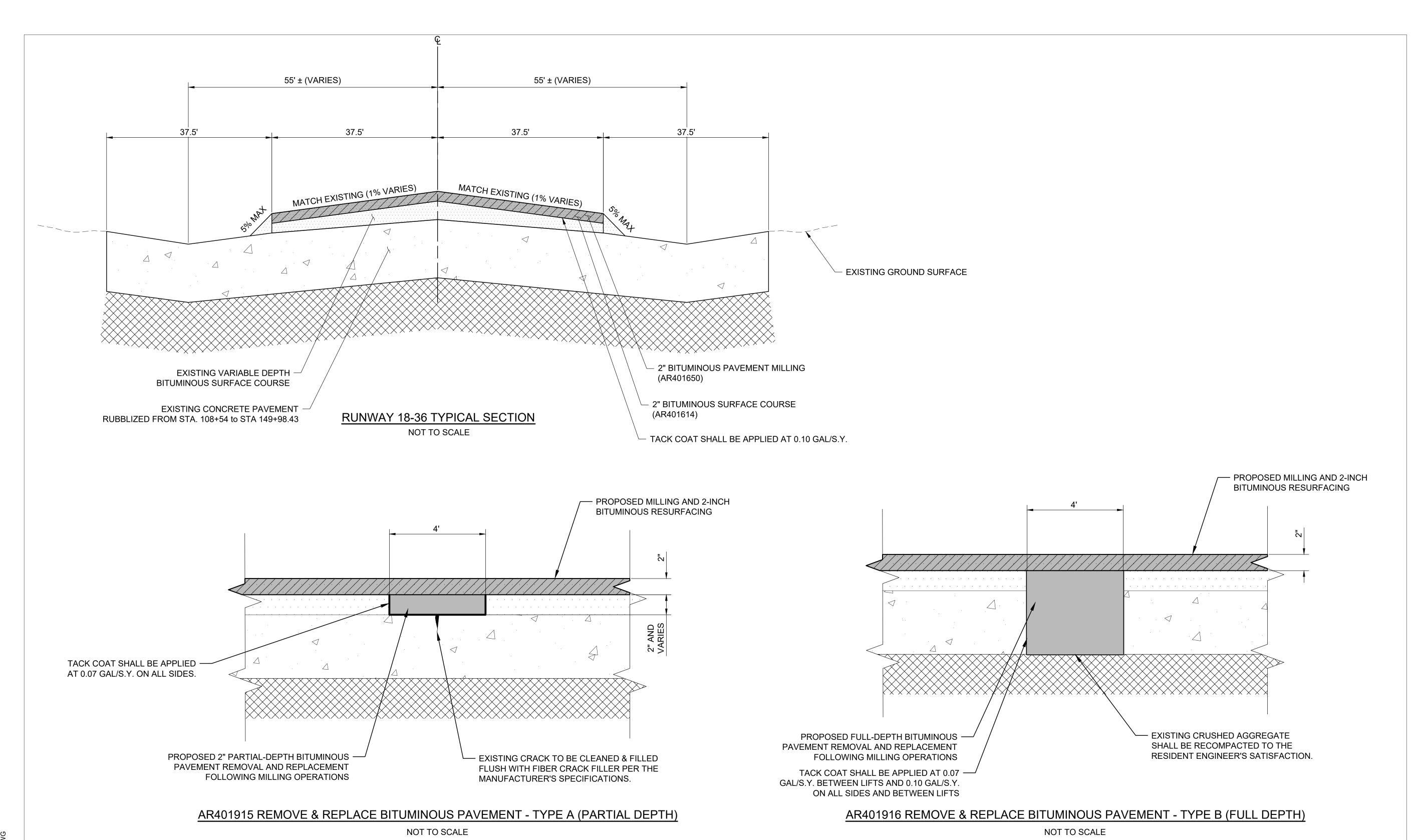
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DRAWN BY: CEM 5/5/2022

SHEET TITLE

REVIEWED BY: JMO 5/5/2022

SAFETY PLAN NOTES & DETAILS



EXISTING	PROPOSED	LEGEND
		BIT. SURF. CSEMETHOD II, SUPERPAVE (2")
		BIT. PAVEMENT MILLING (2")
		BITUMINOUS PAVEMENT
Δ . Δ . Δ		CONCRETE PAVEMENT



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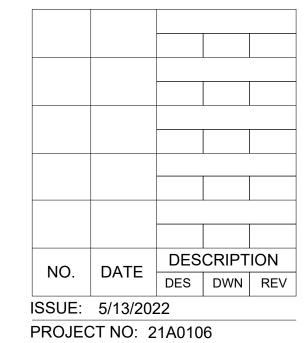
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REHABILITATE **RUNWAY 18-36**

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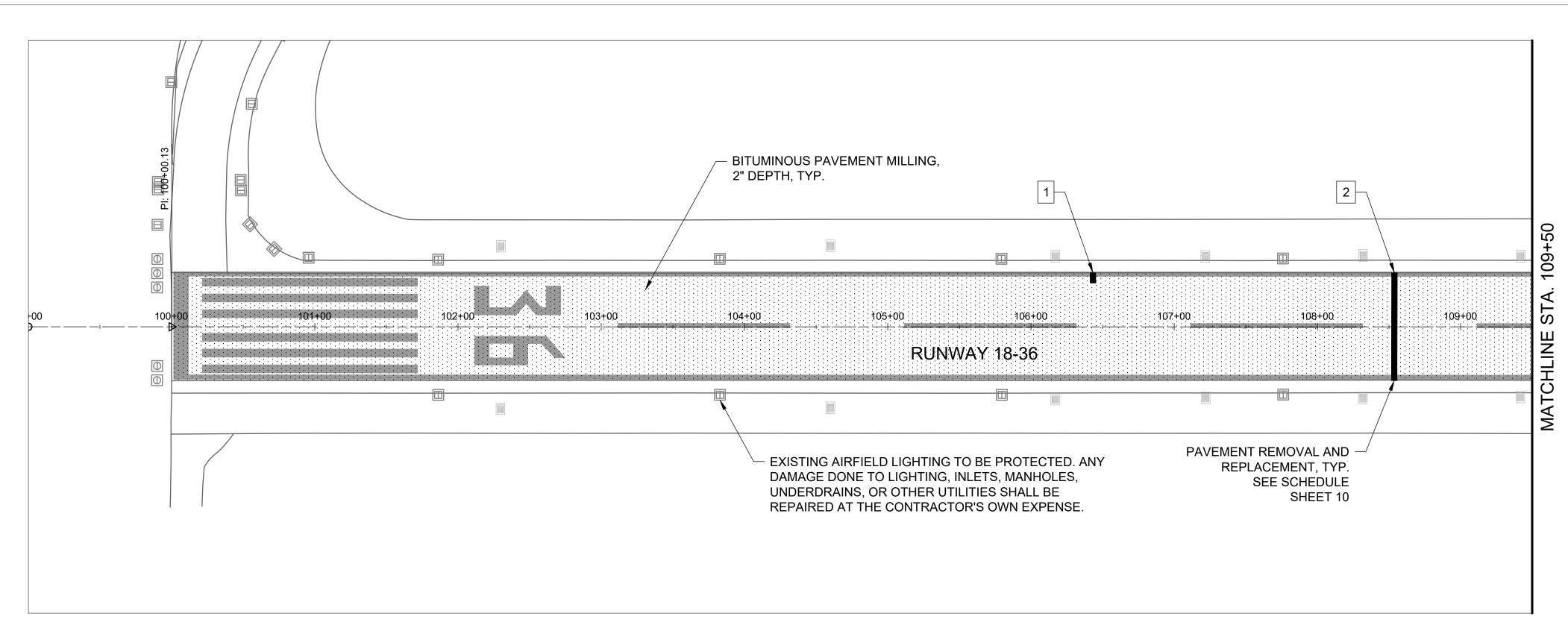
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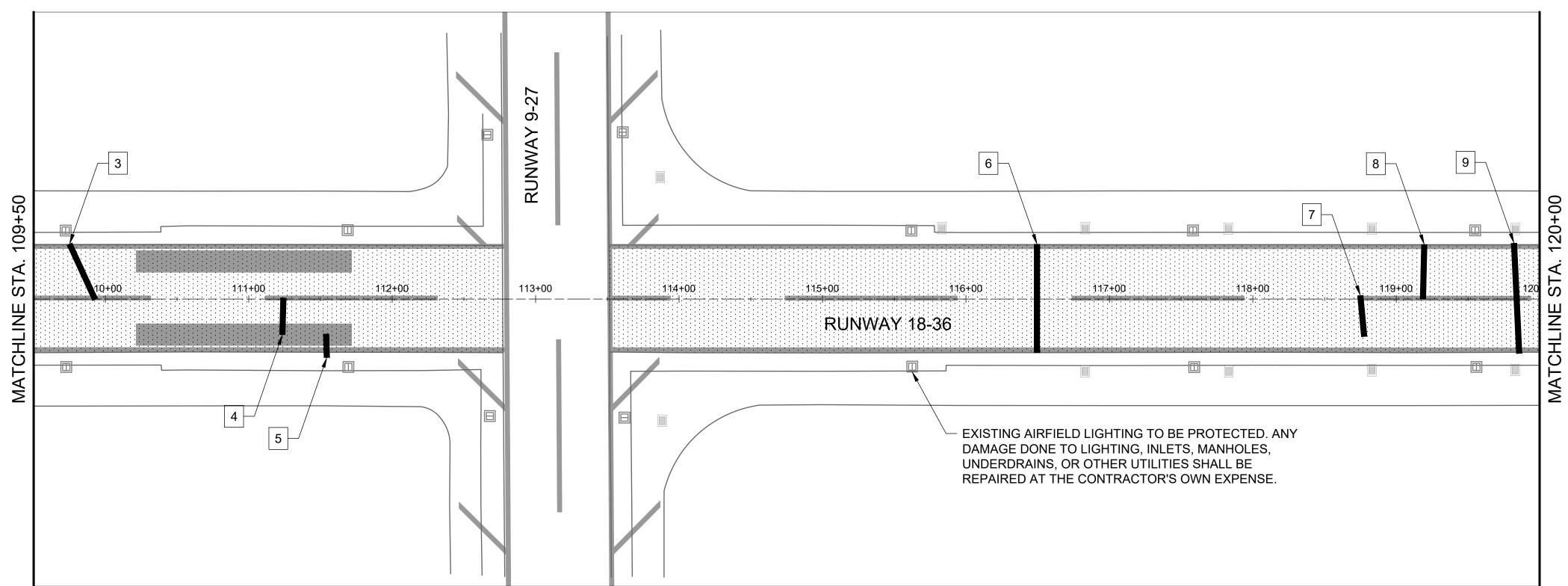
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SHEET TITLE

TYPICAL SECTIONS





EXISTING	PROPOSED	LEGEND
		AR401650 - BITUMINOUS PAVEMENT MILLING
		REMOVE AND REPLACE BIT. PAVEMENT
		INLET
		AIRFIELD LIGHTING

ELECTRICAL NOTES

- 1. THE CONTRACTOR SHALL EXAMINE THE SITE TO CONFIRM AND FIELD VERIFY EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY RESPECTIVE CIRCUITS AND POWER SOURCES PRIOR TO REMOVING, DISCONNECTING, WORKING ON, RELOCATING, RECONNECTING, AND/OR INSTALLING THE RESPECTIVE AIRFIELD LIGHTING, TAXI SIGN, NAVAID, OR OTHER DEVICES. CONTRACTOR SHALL REPORT ANY VARIATIONS, DEFICIENCIES, AND/OR APPARENT SAFETY CONCERNS TO THE RESIDENT ENGINEER/TECHNICIAN.
- 2. WHEN A RUNWAY IS CLOSED THE RESPECTIVE LIGHTING AND NAVAIDS SHALL BE SHUT OFF. WHEN A TAXIWAY IS CLOSED THE RESPECTIVE LIGHTING SYSTEM SHALL BE SHUT OFF.
- 3. ALL WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT MANAGER/DIRECTOR AND RESIDENT ENGINEER/TECHNICIAN.

<u>NOTES</u>

CLEAN & SEAL BITUMINOUS CRACKS

1. A NOMINAL QUANTITY OF AR201661 "CLEAN AND SEAL BITUMINOUS CRACKS" HAS BEEN INCLUDED AND WILL BE LAID OUT BY THE RESIDENT ENGINEER FOLLOWING PAVEMENT MILLING. THE NOMINAL QUANTITY WAS DETERMINED BY A FIELD SURVEY (CONDUCTED ON 02/22/22) AND ASSUMES THAT 50% OF SURVEYED CRACKS WILL BE ELIMINATED AFTER THE COMPLETION OF MILLING.

BITUMINOUS PAVEMENT MILLING

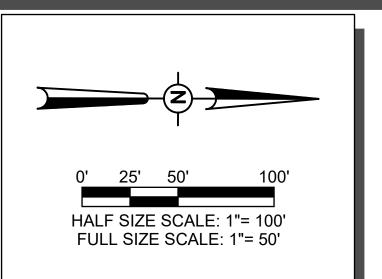
- 2. CONTRACTOR SHALL PROTECT ALL ADJACENT PAVEMENT EDGES DURING MILLING AND PAVING OPERATIONS. ANY DAMAGE DONE TO EXISTING PAVEMENT OR MARKINGS SHALL BE REPAIRED OR REMARKED AT THE CONTRACTOR'S EXPENSE.
- 3. ALL MILLED MATERIAL SHALL BE HAULED OFFSITE UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN. MILLED MATERIAL MAY BE USED TO MAKE REPAIRS TO THE HAUL ROUTE AS NEEDED AND APPROVED BY THE RESIDENT ENGINEER.

REMOVE & REPLACE BITUMINOUS PAVEMENT

- 1. SEE DETAILS SHEET FOR PATCHING. PATCHING LOCATIONS ARE APPROXIMATE AND WILL BE CONFIRMED AND LAID OUT BY THE RESIDENT ENGINEER/TECHNICIAN FOLLOWING PAVEMENT MILLING.
- 2. ALL PATCHES INDICATED AS PARTIAL (TYPE A) OR FULL DEPTH (TYPE B) WERE DETERMINED DURING A FIELD SURVEY AND PRIOR TO MILLING. FOLLOWING MILLING, AND UPON INSPECTION BY RESIDENT ENGINEER/TECHNICIAN, PARTIAL PATCHES MAY BE CONVERTED TO TYPE B (FULL-DEPTH) PATCH TO BE MEASURED AND PAID FOR UNDER PAY ITEM AR401916 OR REMOVED.

TEMPORARY EROSION CONTROL

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN SUCH A MANNER TO PREVENT DEBRIS FROM ENTERING THE DOWNSTREAM DRAINAGE PIPES. FAILURE TO DO SO THAT RESULTS IN DEBRIS DEPOSITS IN DOWNSTREAM PIPE OR STRUCTURES WILL REQUIRE THE CONTRACTOR TO REMOVE THE RESULTING DEBRIS AT NO ADDITIONAL COST TO THE OWNER.



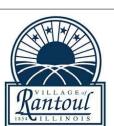
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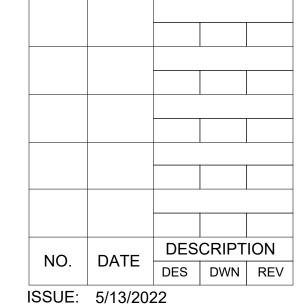
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REHABILITATE RUNWAY 18-36

IDA No: TIP-4959

SBGP No: 3-17-SBGP-162/171/184

Contract No.: RA018



PROJECT NO: 21A0106

CAD FILE: C-101-PREP.DWG

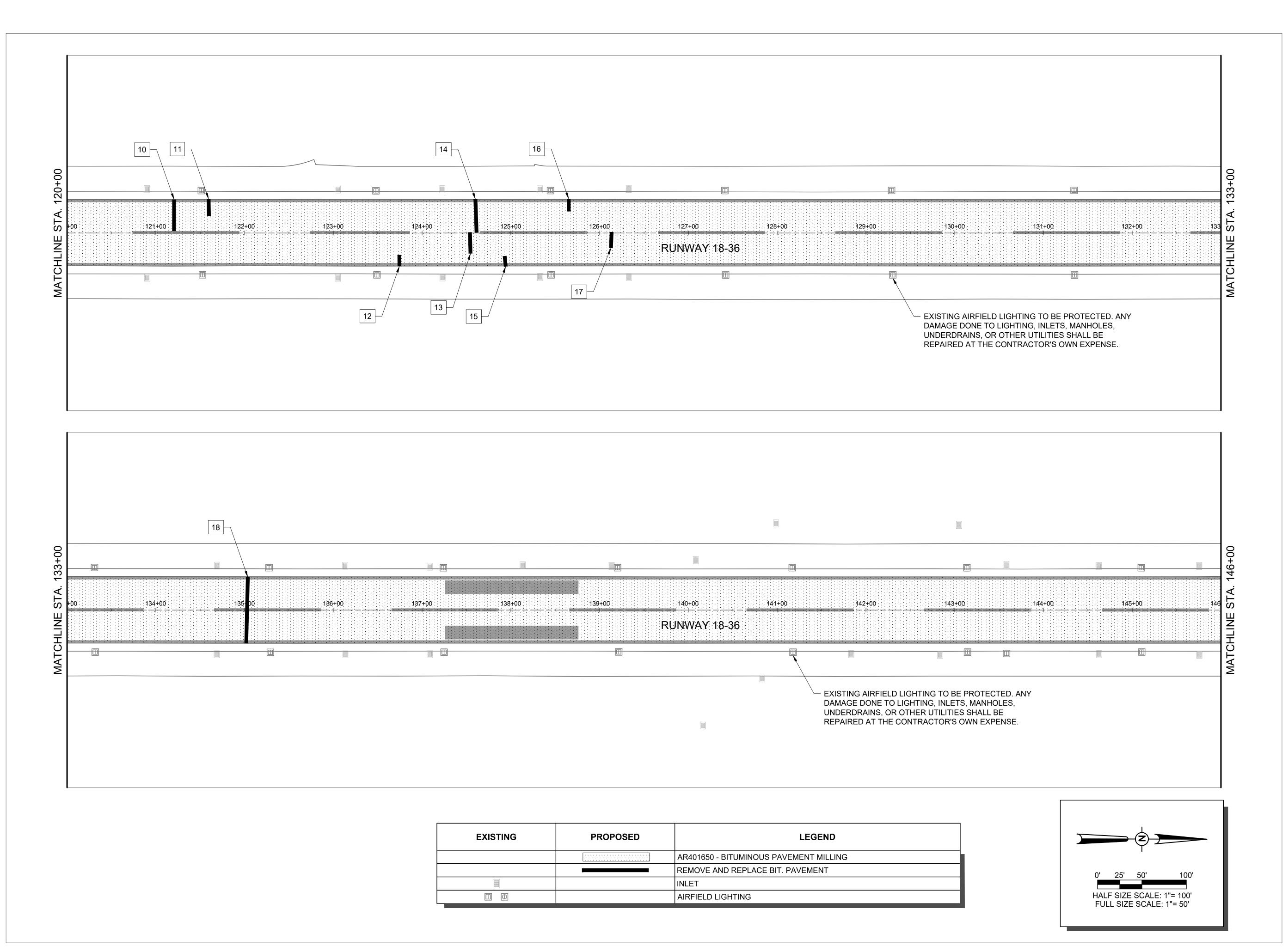
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SHEET TITLE

PAVEMENT PREPARATION PLAN -STA. 100+00 TO STA. 120+00



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NO. DATE | DESCRIPTION | DES | DWN | REV | ISSUE: 5/13/2022

PROJECT NO: 21A0106

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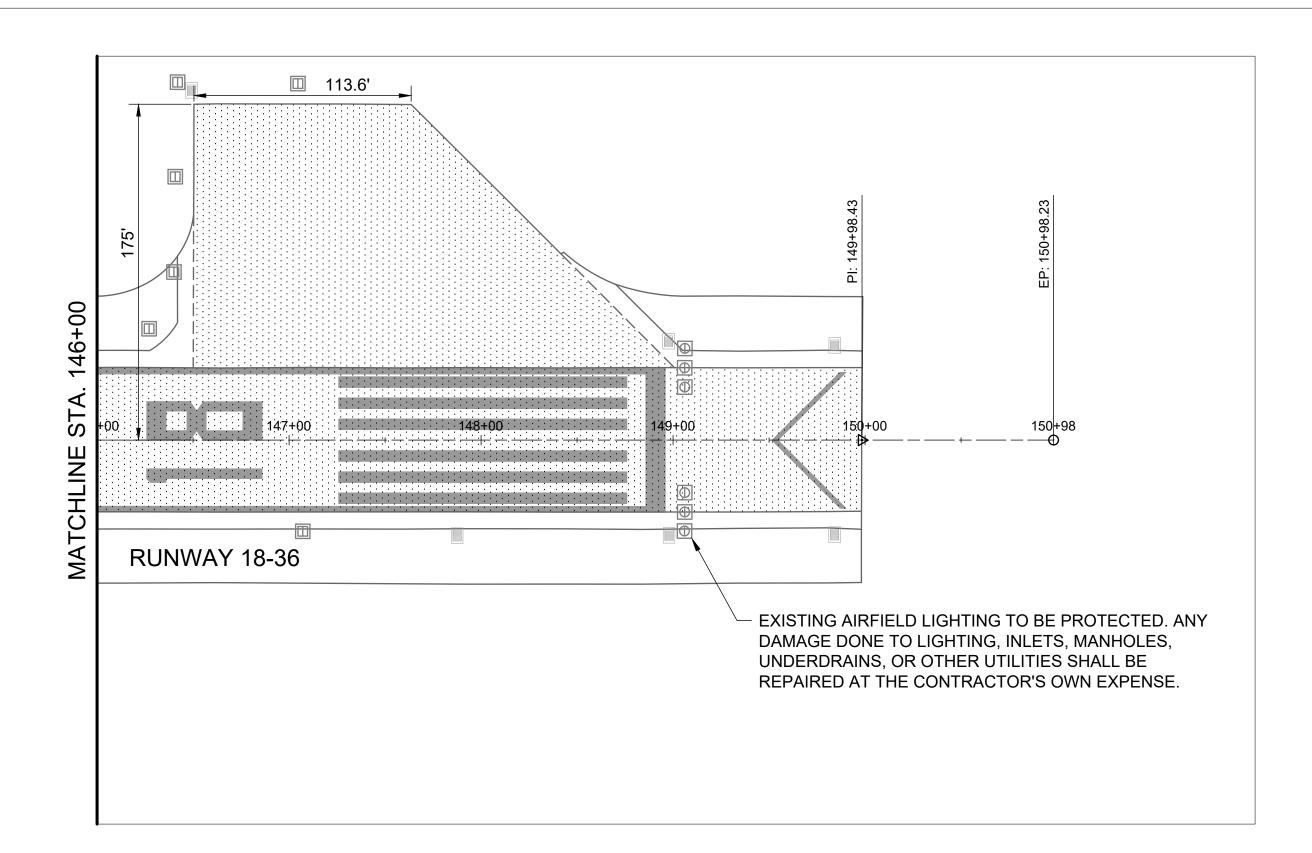
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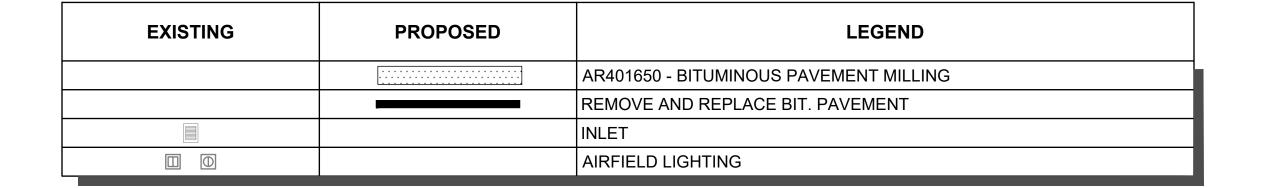
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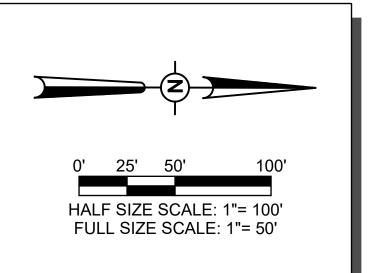
SHEET TITLE

PAVEMENT PREPARATION PLAN -STA. 120+00 TO STA. 146+00



PATCHING SCHEDULE						
CRACK NO.	STATION (APPROXIMATE)	PATCH TYPE	PATCHING LENGTH (FT)	PATCHING WIDTH (FT)	TYPE A TOTAL (AR401915) (SY)	TYPE B TOTAL (AR40191 (SY)
1	106+43	А	10	4	4.4	
2	108+54	В	75	4		33.3
3	109+75	В	45	4		20.0
4	111+24	В	30	4		13.3
5	111+54	Α	20	4	8.9	
6	116+50	В	75	4		33.3
7	118+75	В	30	4		13.3
8	119+20	В	40	4		17.8
9	119+82	В	75	4		33.3
10	121+20	В	37.5	4		16.7
11	121+60	В	20	4		8.9
12	123+74	А	15	4	6.7	
13	124+55	В	25	4		11.1
14	124+60	В	40	4		17.8
15	124+94	А	15	4	6.7	
16	125+65	А	15	4	6.7	
17	126+13	А	20	4	8.9	
18	135+04	В	75	4		33.3





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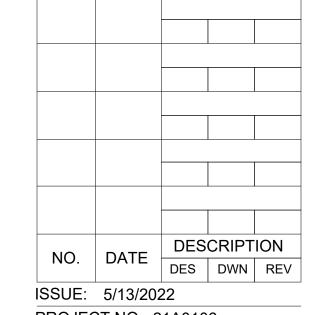
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REHABILITATE RUNWAY 18-36

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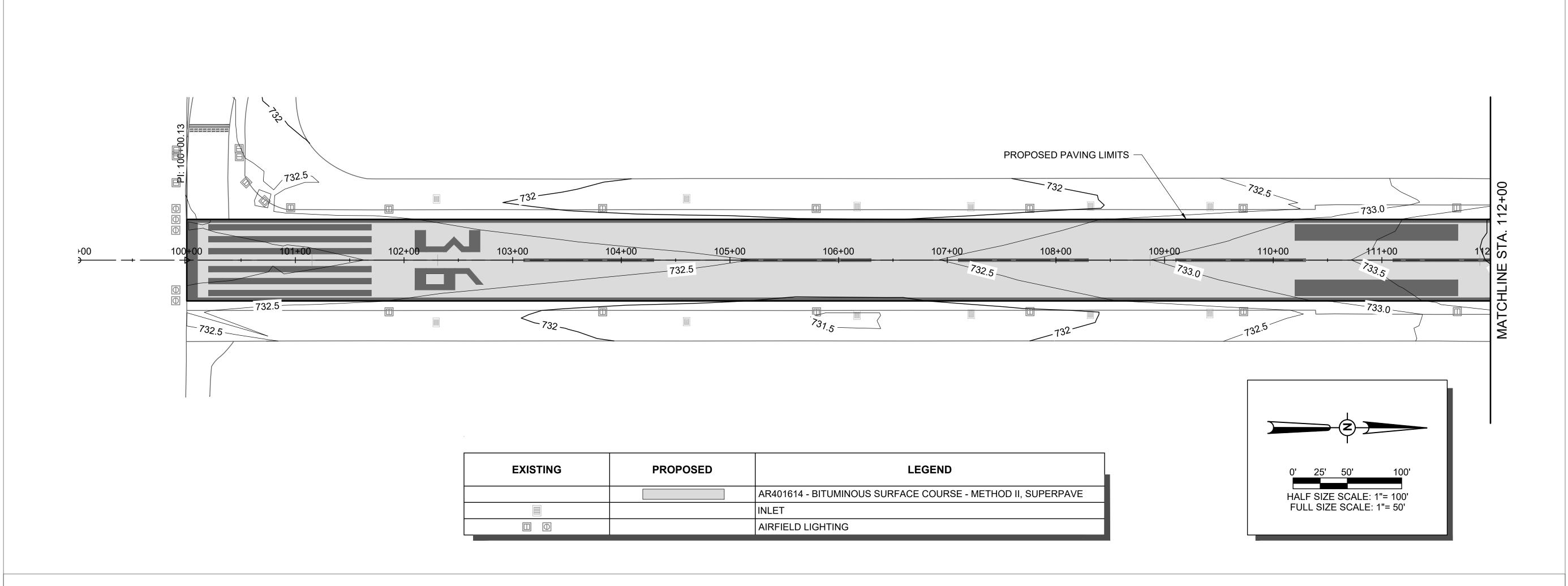
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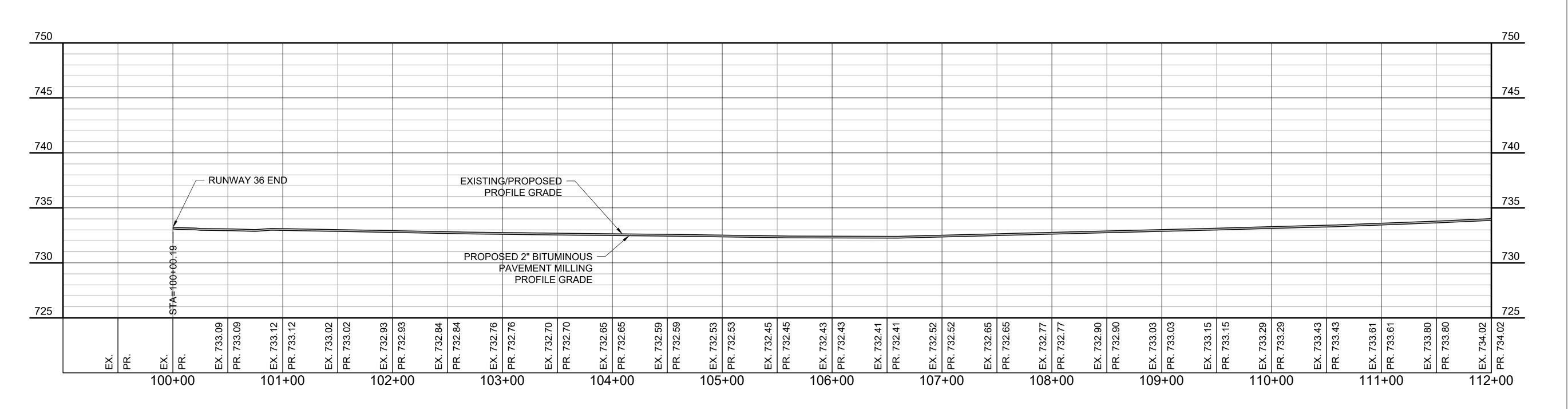
DESIGN BY: CEM 5/5/2022

DRAWN BY: CEM 5/5/2022 REVIEWED BY: JMO 5/5/2022

SHEET TITLE

PAVEMENT PREPARATION PLAN -STA. 146+00 TO STA. 149+98.43





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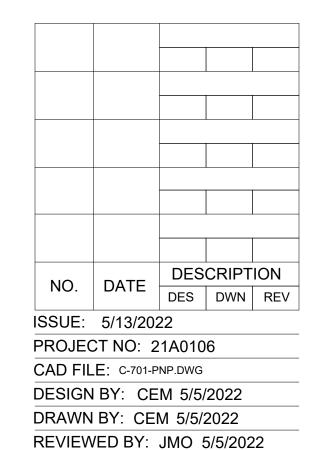
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REHABILITATE RUNWAY 18-36

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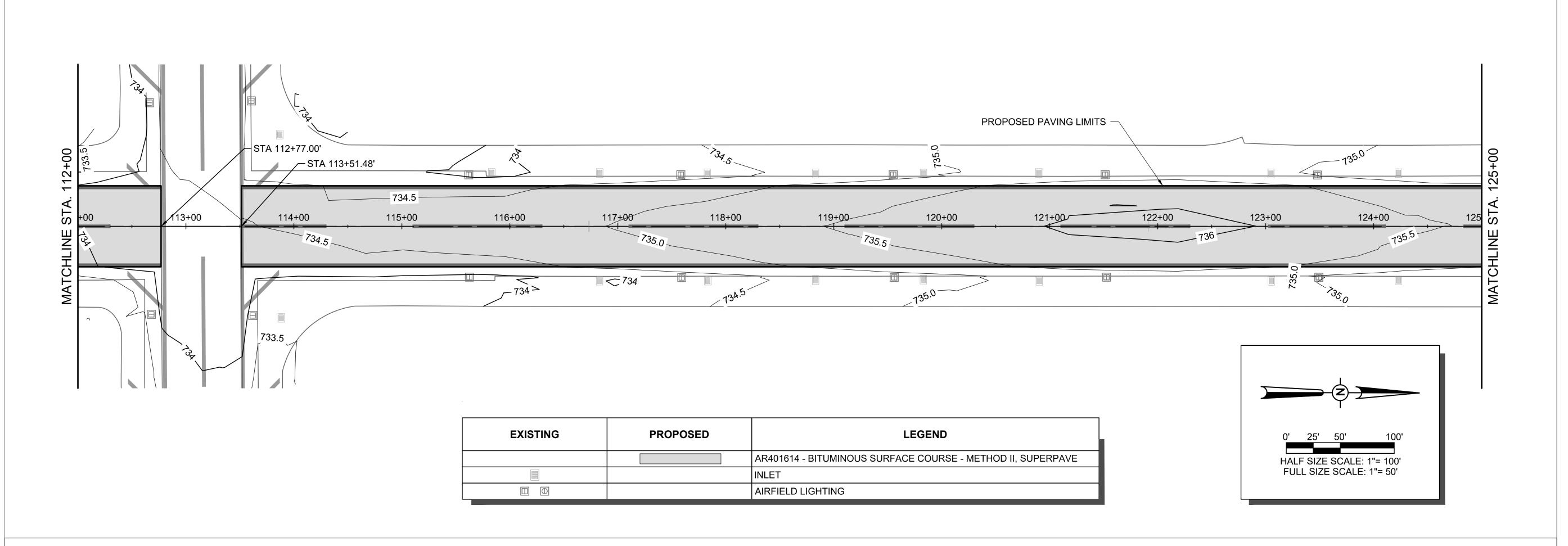
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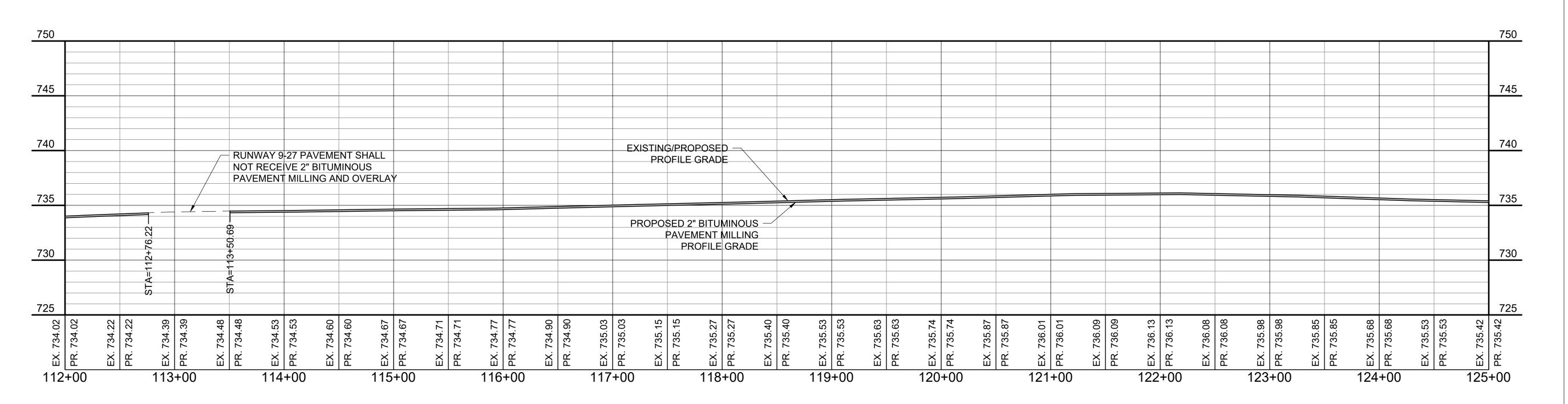
Contract No.: RA018



PLAN & PROFILE -STA. 100+00 TO STA. 112+00

SHEET TITLE





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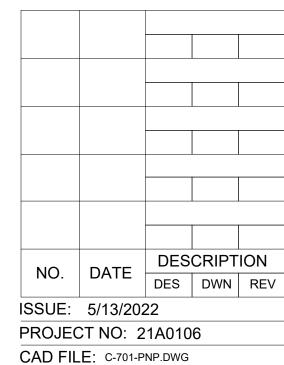
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REHABILITATE **RUNWAY 18-36**

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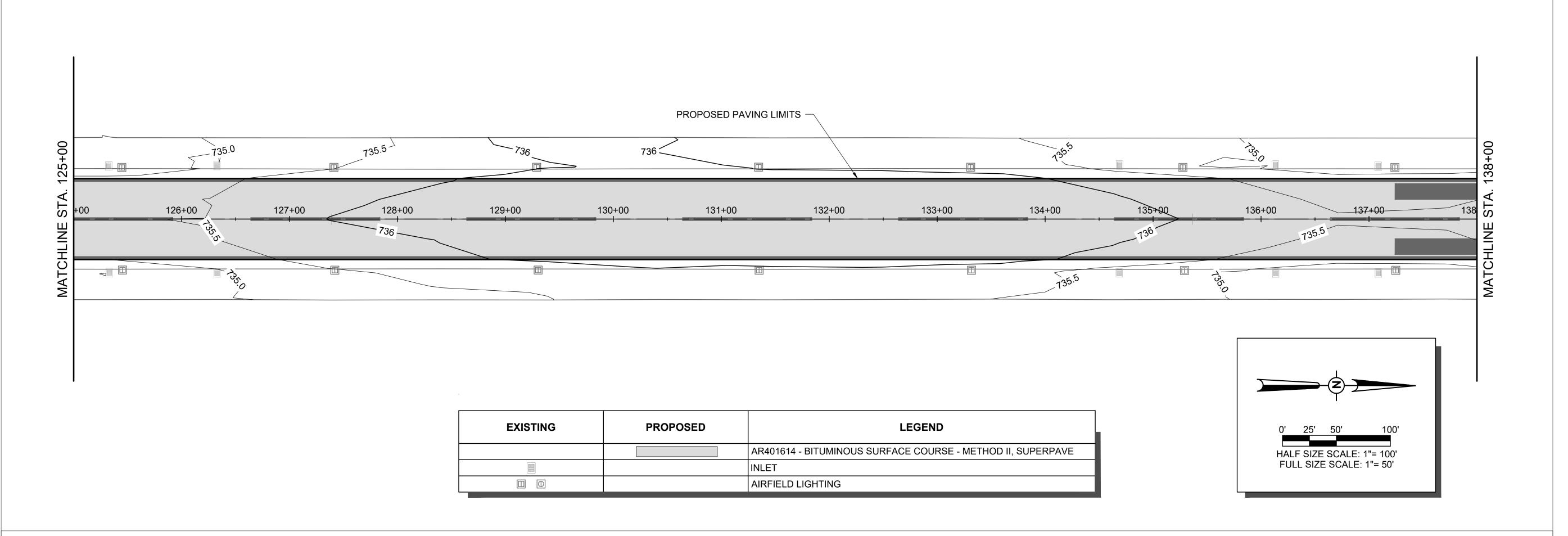
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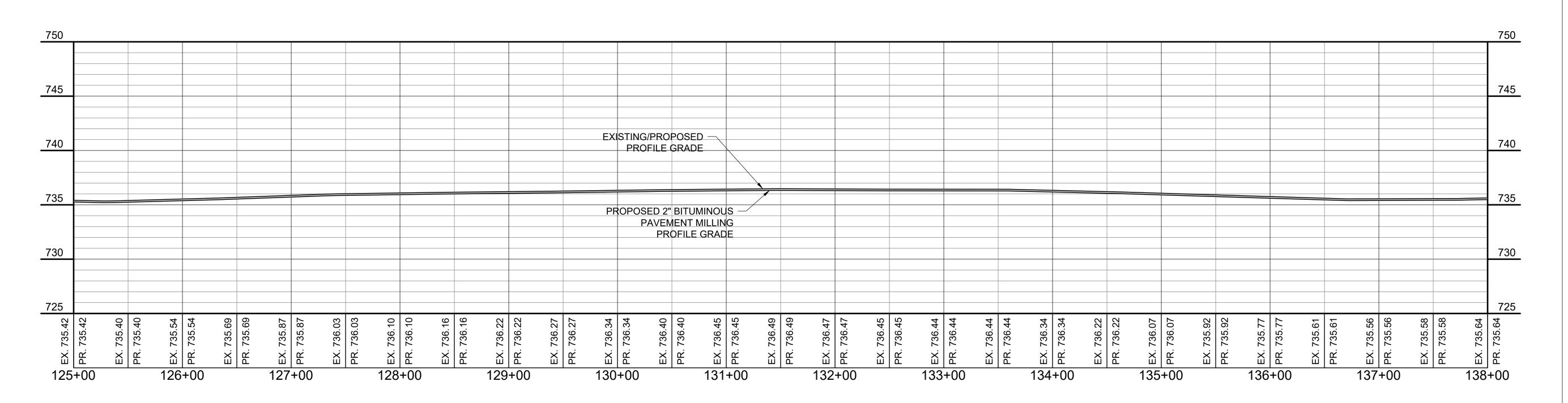


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SHEET TITLE

PLAN & PROFILE -STA. 112+00 TO STA. 125+00





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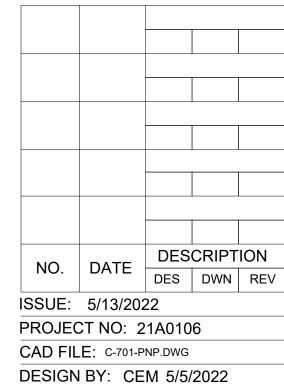
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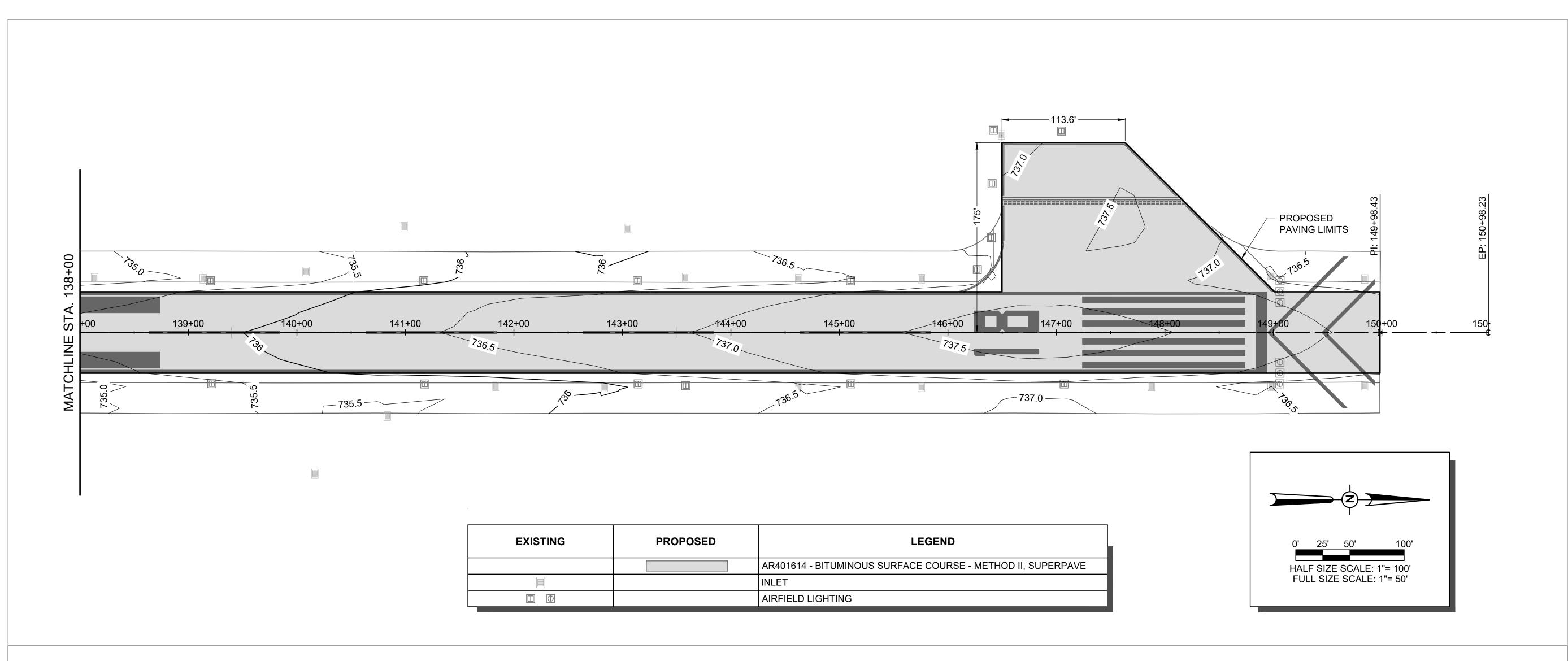
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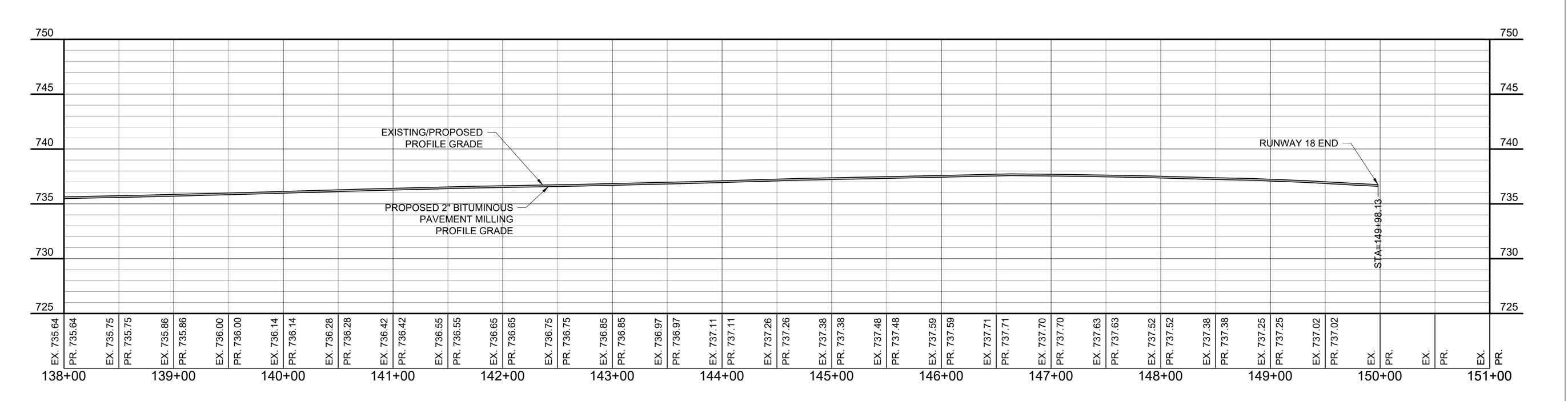


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SHEET TITLE

PLAN & PROFILE -STA. 125+00 TO STA. 138+00





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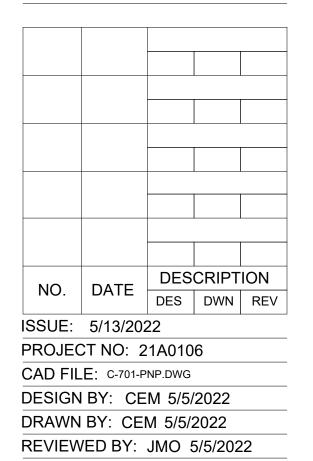
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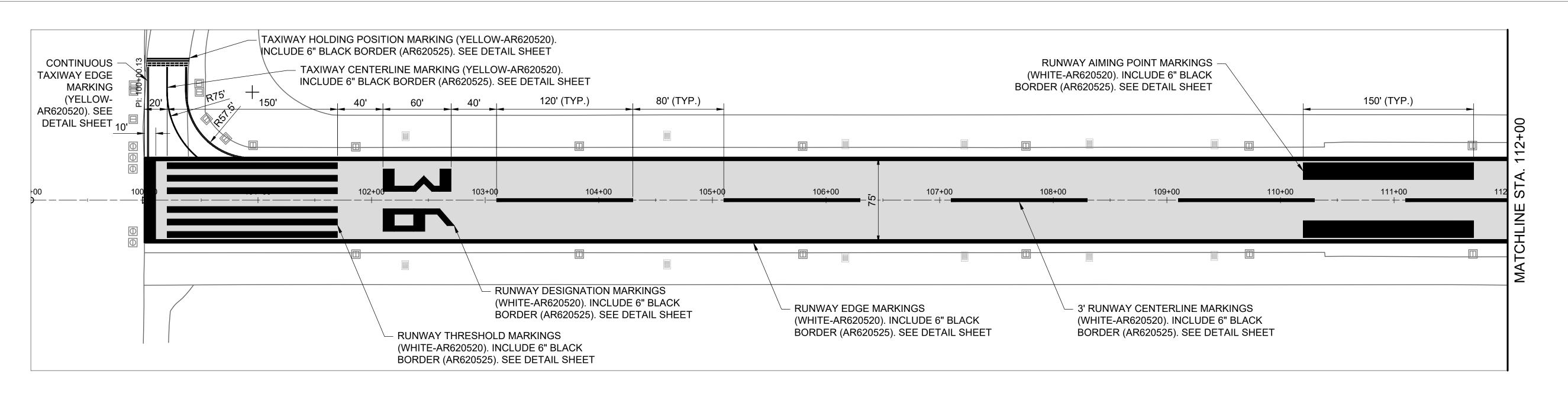
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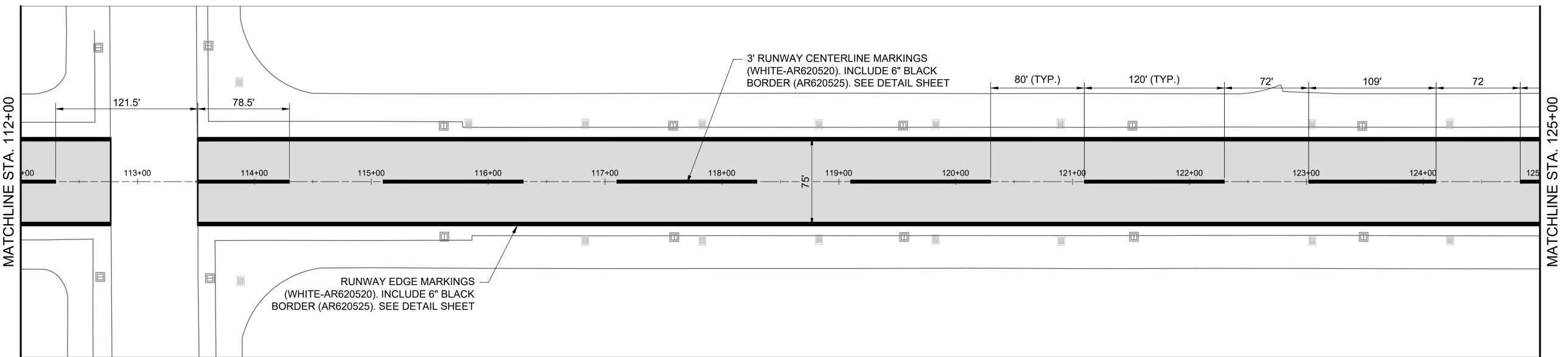
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PLAN & PROFILE -STA. 138+00 TO STA. 149+98.43

SHEET TITLE



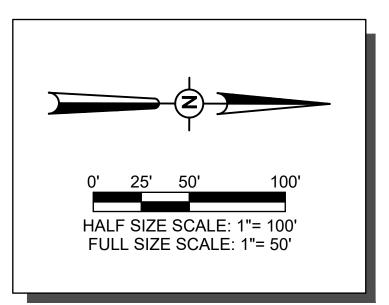


WATERBORNE PAVEMENT MARKING NOTES

- 1. A 30-DAY WAITING PERIOD IS REQUIRED BETWEEN THE PLACEMENT OF BITUMINOUS SURFACE COURSE AND THE FINAL APPLICATION OF WATERBORNE PAINT. AFTER THE PLACEMENT OF SURFACE COURSE AND PRIOR TO THE 30-DAY CURE PERIOD AN INITIAL COAT OF MARKINGS SHALL BE PLACED AT 50% OF THE NORMAL APPLICATION RATE. BLACK MARKINGS SHALL NOT BE PLACED DURING THE INITIAL COAT. THE REMAINDER OF THE MARKINGS, INCLUDING THE BLACK BORDERS, SHALL BE PLACED AFTER THE 30-DAY CURE PERIOD HAS ELAPSED AND GROOVING HAS BEEN COMPLETED. (IF ONLY GROOVING AND MARKING REMAIN, THE CALENDAR DAYS MAY BE SUSPENDED DURING THE 30 DAY CURE PERIOD.)
- 2. WATERBORNE BLACK PAINT SHALL BE USED TO OUTLINE A MINIMUM 6-INCH BORDER AROUND ALL MARKINGS AND WILL BE APPLIED IN ONE APPLICATION.
- GLASS BEADS SHALL BE APPLIED ON THE SECOND COAT OF MARKING. GLASS BEADS SHALL NOT BE APPLIED TO BLACK PAINT.
- 4. CUT-OFF SHEETS WILL BE REQUIRED TO ENSURE STRAIGHT EDGES.
- 5. THE CONTRACTOR WILL BE RESPONSIBLE FOR RE-MARKING ANY MARKINGS DAMAGED BY CONSTRUCTION ACTIVITIES THAT ARE OUTSIDE OF THE PROPOSED WORK LIMITS.

MARKING SCHEDULE						
AR620520 - PAVEMENT MARKING - WATERBORNE (WHITE)						
DESCRIPTION	UNIT AREA (S.F.)	NO. REQUIRED	TOTAL AREA (S.F.)			
EDGE MARKING	28,800	1	28,800			
THRESHOLD MARKING	825	12	9,900			
THRESHOLD BAR	750	2	1,500			
DESIGNATION MARKING 1	318	1	318			
DESIGNATION MARKING 8	874	1	874			
DESIGNATION MARKING 3	634	1	634			
DESIGNATION MARKING 6	713	1	713			
AIMING POINT MARKING	2,250	4	9,000			
CENTERLINE MARKING (120')	360	19	6,840			
CENTERLINE MARKING (109')	327	2	654			
CENTERLINE MARKING (78.5')	235.5	1	236			
AR620520 - PAVE	MENT MARKING - WAT	TERBORNE (YELLOW)				
DESCRIPTION	UNIT AREA (S.F.)	NO. REQUIRED	TOTAL AREA (S.F.)			
HOLDING POSITION - NORTH	584	1	584			
HOLDING POSITION - SOUTH	130	1	130			
TAXIWAY EDGE MARKING - NORTH	437	1	437			
TAXIWAY EDGE MARKING - SOUTH	181	1	181			
TAXIWAY CENTERLINE	87	1	87			
CHEVRON MARKING - LARGE	591	1	591			
CHEVRON MARKING - SMALL	396	1	396			

MARKING SCHEDULE AR620525 - PAVEMENT MARKING - BLACK BORDER			
EDGE MARKING	9,600	1	9,600
THRESHOLD MARKING	156.5	12	1,878
THRESHOLD BAR	82	2	164
DESIGNATION MARKING 1	68	1	68
DESIGNATION MARKING 8	132	1	132
DESIGNATION MARKING 3	103	1	103
DESIGNATION MARKING 6	113	1	113
AIMING POINT MARKING	166	4	664
CENTERLINE MARKING (120')	124	19	2,356
CENTERLINE MARKING (109')	113	2	226
CENTERLINE MARKING (78.5')	82.5	1	83
HOLDING POSITION - NORTH	921	1	921
HOLDING POSITION - SOUTH	207	1	207
TAXIWAY EDGE MARKING - NORTH	544	1	544
TAXIWAY EDGE MARKING - SOUTH	272	1	272
TAXIWAY CENTERLINE	87	1	87
CHEVRON MARKING - LARGE	203	1	203
CHEVRON MARKING - SMALL	138	1	138



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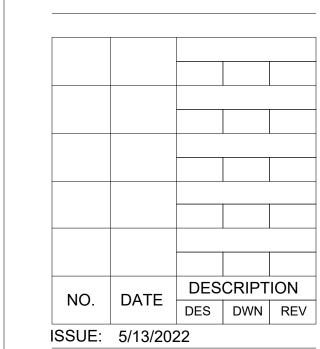
Rantoul National Aviation Center 333 South Tanner Street Rantoul, Illinois 61866 Telephone: 217.892.6800 Fax: 217.892.6899

REHABILITATE RUNWAY 18-36

IDA No: TIP-4959

SBGP No: 3-17-SBGP-162/171/184

Contract No.: RA018

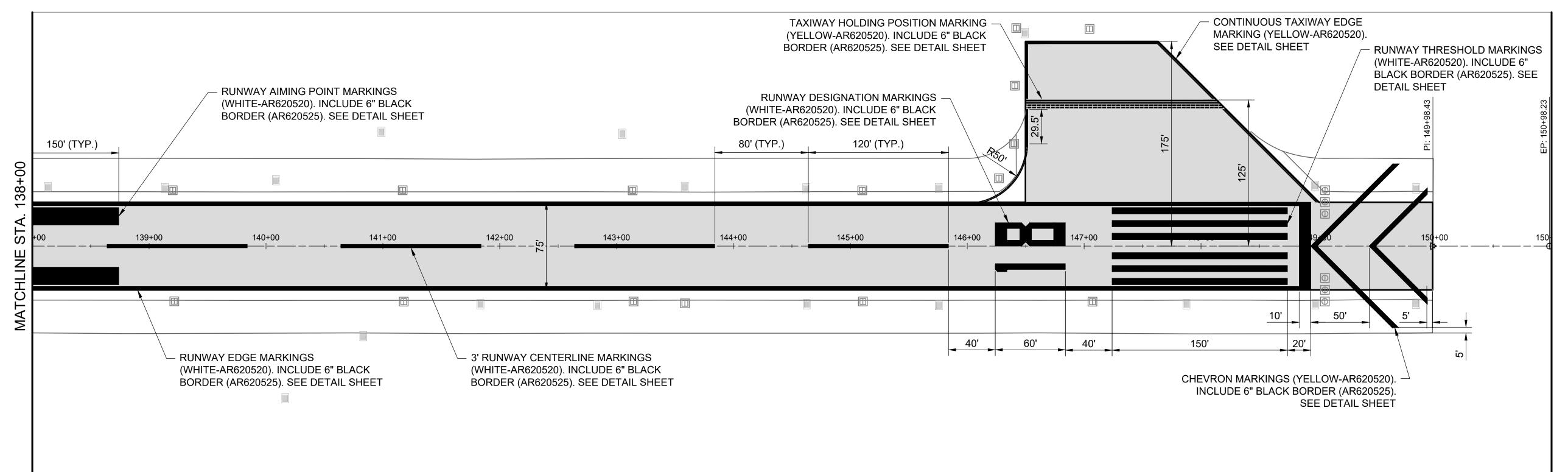


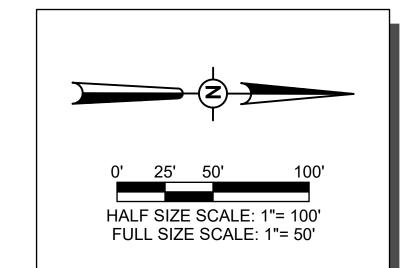
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CAD FILE: C-102-MRK.DWG
DESIGN BY: CEM 5/5/2022
DRAWN BY: CEM 5/5/2022

REVIEWED BY: JMO 5/5/2022

SHEET TITLE

MARKING PLAN - STA. 100+00 TO STA. 125+00







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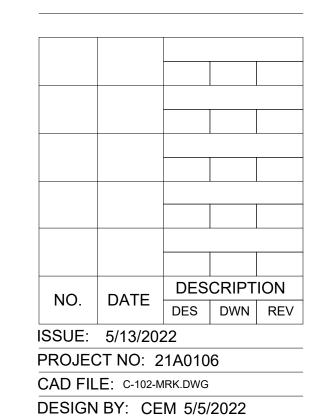
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REHABILITATE RUNWAY 18-36

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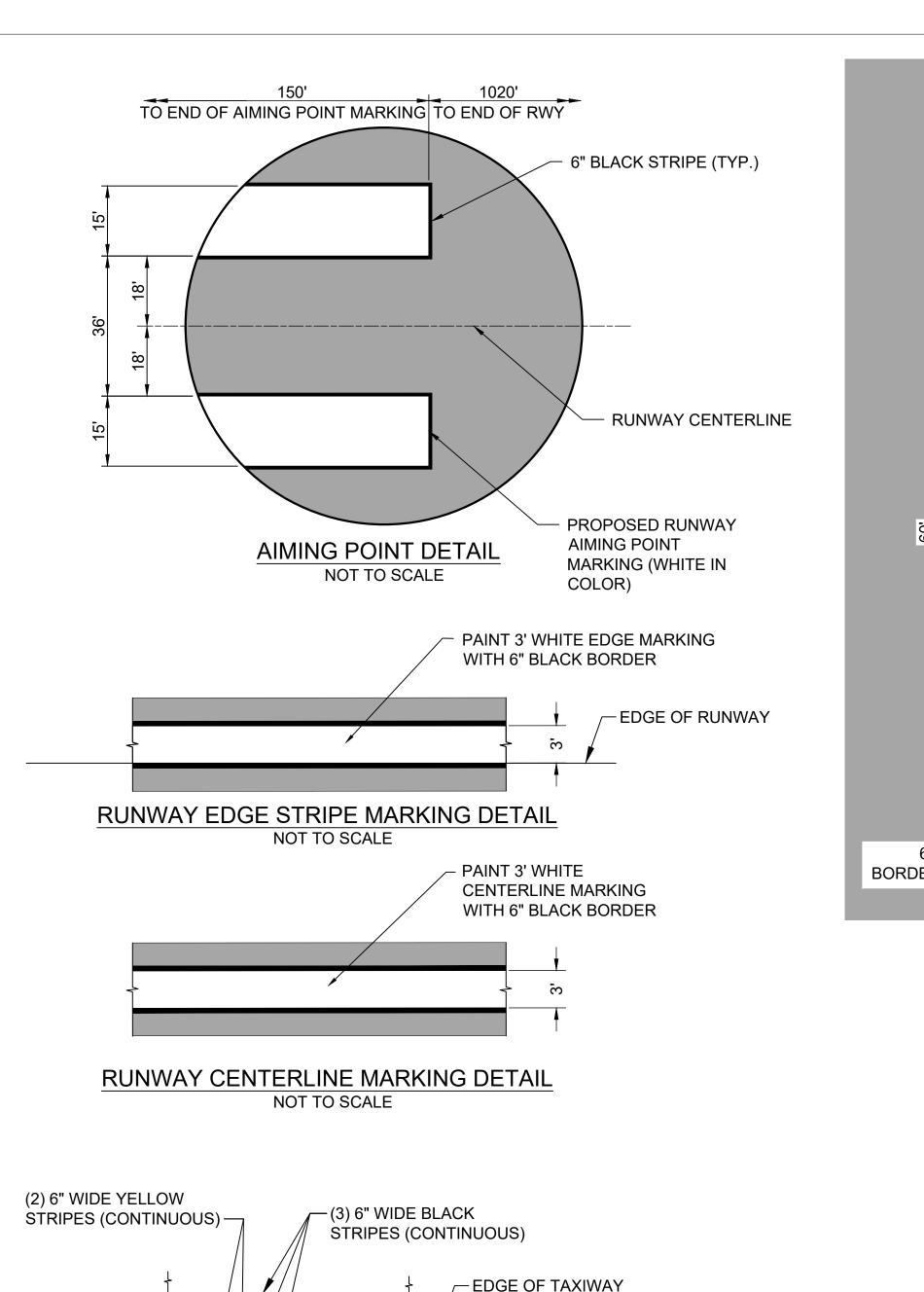


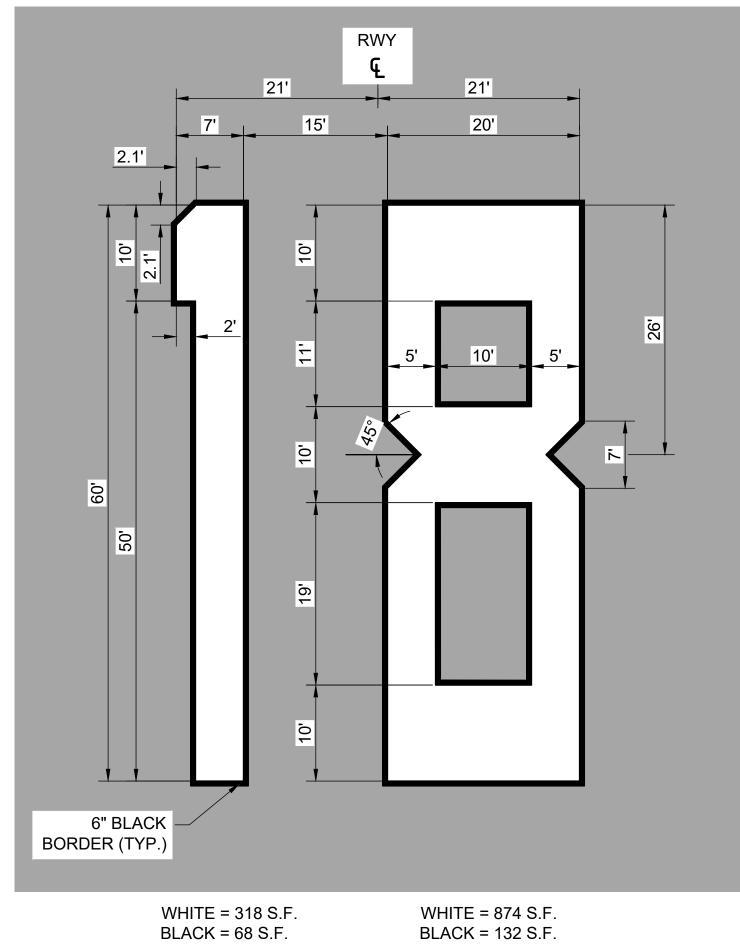
REVIEWED BY: JMO 5/5/2022

SHEET TITLE

DRAWN BY: CEM 5/5/2022

MARKING PLAN - STA. 125+00 TO STA. 149+98.43



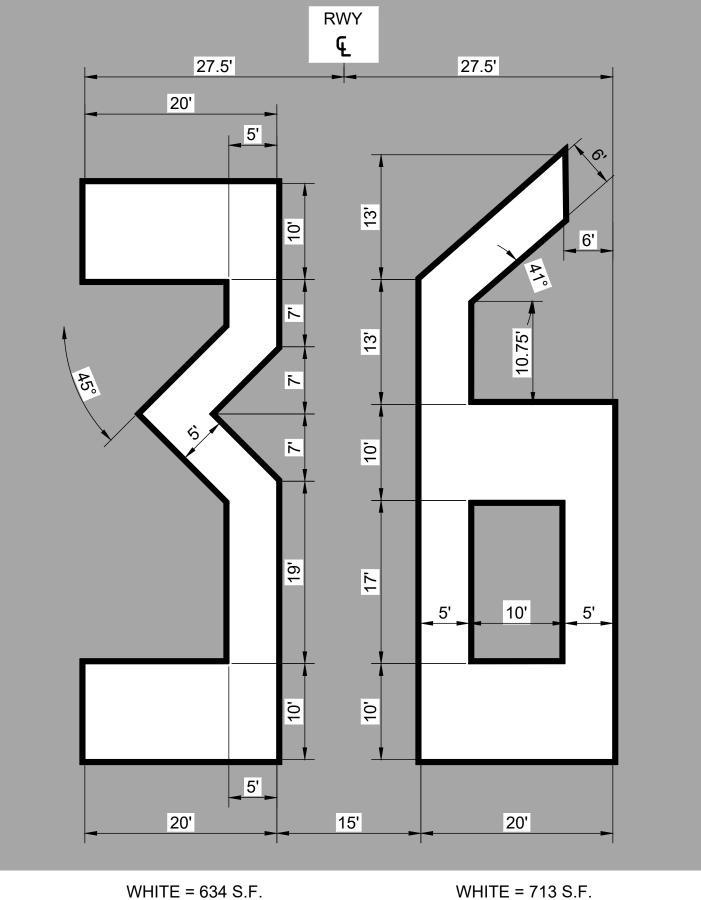


RUNWAY 18 DESIGNATION MARKING

NOT TO SCALE

RUNWAY NUMERAL DIMENSIONING NOTES:

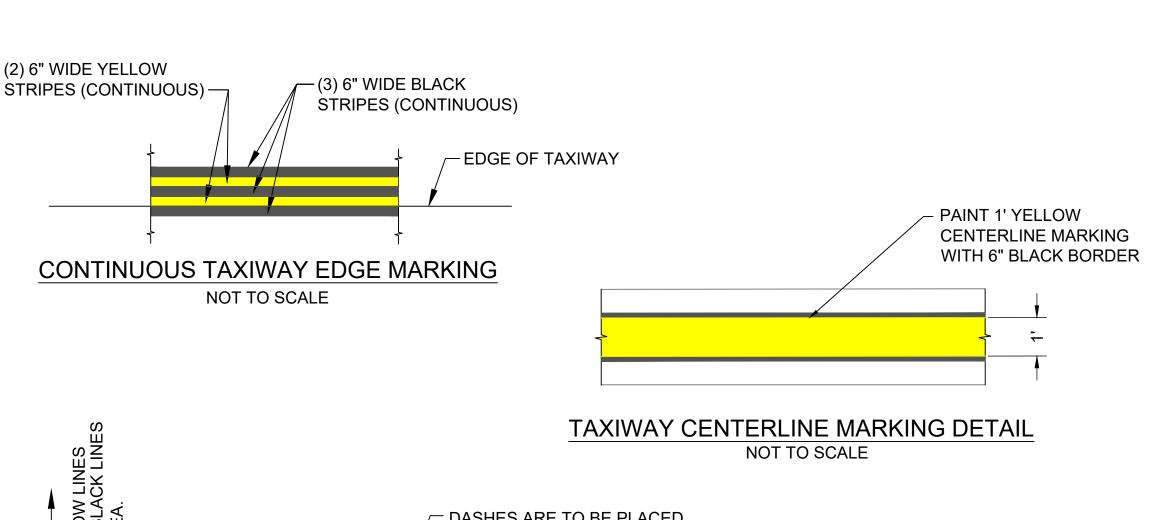
- 1. ALL DIMENSIONS SHOWN ARE FOR WHITE MARKINGS.
- 2. DOUBLE DIGIT NUMERAL DESIGNATIONS ARE CENTERED ON THE RUNWAY PAVEMENT CENTERLINE BASED ON THE CENTER OF THE OUTER EDGES OF THE TWO NUMERALS.
- REQUIRED TO INSURE STRAIGHT EDGES.

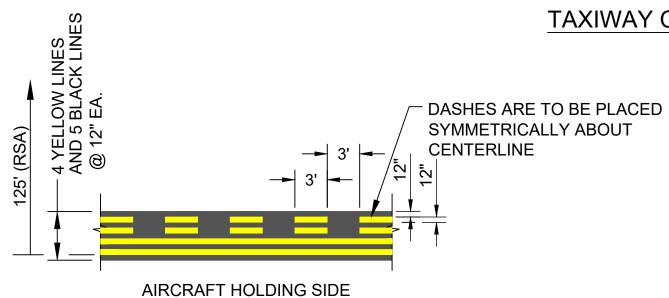


WHITE = 634 S.F. BLACK = 103 S.F.

WHITE = 713 S.F. BLACK = 113 S.F.

RUNWAY 36 DESIGNATION MARKING NOT TO SCALE





RUNWAY HOLDING POSITION MARKING

NOT TO SCALE

150'

To 10'

To 50'

To 10'

To 50'

THRESHOLD MARKING DETAIL
NOT TO SCALE

BLAST PAD MARKING DETAIL
NOT TO SCALE

HANSO

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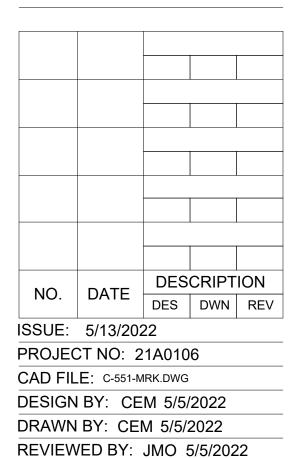
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REHABILITATE RUNWAY 18-36

IDA No: TIP-4959

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RUNWAY MARKING DETAILS

SHEET TITLE

16